

06-13-14 LETTING ITEM 231

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

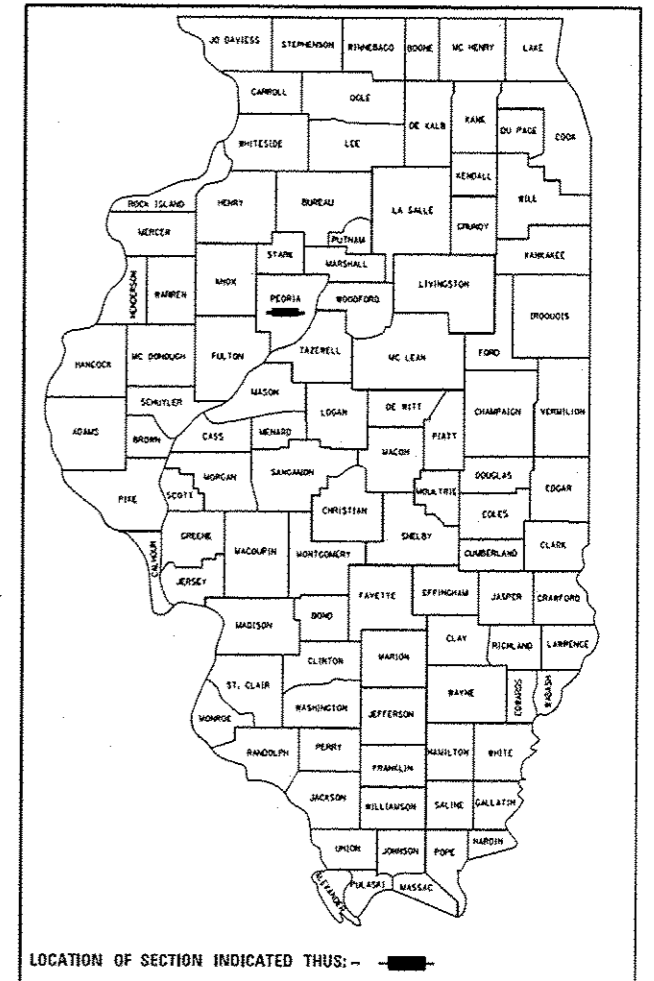
**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 1388 (IL 8)
SECTION (Z-1D-BR-1)BR
PROJECT ACRS - 1388 (103)
PEORIA COUNTY
C-94-030-07

STRUCTURE REPLACEMENT OVER KICKAPOO CREEK

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	1
FED. ROAD DIST. NO. 4	ILLINOIS	CONTRACT NO. 68697		

*89+1=90
D-94-026-07



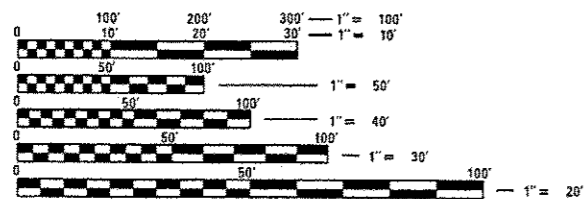
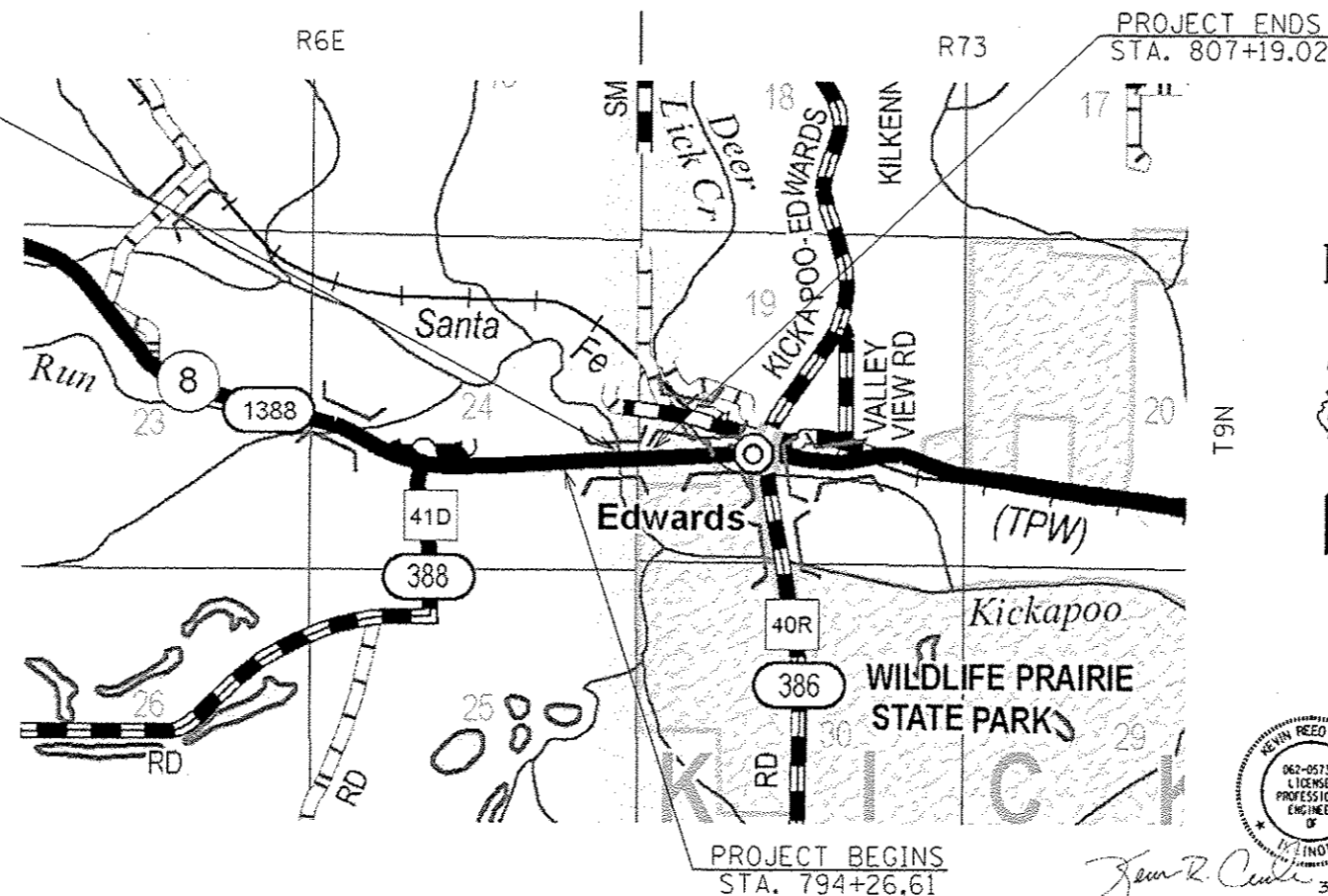
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

OMISSIONS:

TRAFFIC DATA:
MAJOR COLLECTOR (RURAL)
ADT(2011) = 2650
SU = 6.79%
MU = 2.26%

TOWNSHIPS: ROSEFIELD
KICKAPOO

PROPOSED BRIDGE ON IL 8
OVER KICKAPOO CREEK
STRUCTURE NUMBER 072-0229
STRUCTURE C. STA. 800+90.22
FIVE SPAN STEEL WIDE FLANGE
BEAM BRIDGE
359'-8" BK TO BK ABUTS: 0° SKEW
EXIST. STRUCTURE NUMBER 072-0047



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 RICH DOTSON (309) 671-3455
PROJECT MANAGER TERRISA WORSFOLD (309) 671-3465

CONTRACT NO. 68697
CATALOG NO. 033473-00D

FAS RTE 1388 (IL 8):
GROSS LENGTH OF PROJECT : 1292.41 FT. = 0.24 MILES
SN 072-0229
ROADWAY LENGTH = 932.74 FT
BRIDGE LENGTH = 359.67 FT
NET LENGTH OF PROJECT = 1292.41 FT. = 0.24 MILES

Kevin R. Crider
Professional Engineer
State of Illinois No. 062-057383
Expires 11/30/2015

APPROX. SCALE
1" = 1500'

BFW BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.

1715 DUNDAS DRIVE
MURRAY, KENTUCKY 40361
PHONE: 270.753.7307

100 SOUTH 19th STREET
PACONIA, ILLINOIS 62450
PHONE: 270.443.1795

493 NORTH COURT STREET
HAMBURG, ILLINOIS 62059
PHONE: 618.972.8160

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 21, 2014

Deputy Director of Highways, Region Engineer
May 9, 2014
J. D. Baranzelli, PE
Engineer of Design and Environment
March 9, 2014
Chris Osman, PE
Director of Highways, Chief Engineer

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OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	INDEX OF SHEETS; STANDARDS; GENERAL NOTES; COMMITMENTS
4-11	SUMMARY OF QUANTITIES
12-13	TYPICAL SECTIONS
14	ALIGNMENT, TIES AND BENCHMARKS
15-16	SCHEDULES OF QUANTITIES
17	REMOVAL PLAN
18	PLAN AND PROFILE
19-20	ENTRANCE PLAN AND PROFILE
21-24	STAGING PLAN
25	SHOULDER/GUARDRAIL
26	EROSION CONTROL PLAN
27	RIGHT OF WAY PLAN
28-29	GRADING PLAN
30-42	DETAILS AND D4 CADD STANDARDS
43-	STRUCTURAL SHEETS
-	CROSS SECTIONS

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER & MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 m) FROM PAVEMENT EDGE
701011-04	OFF ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45MPH
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS: NONE

GENERAL NOTES

AVAILABILITY OF ELECTRONIC FILES

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

UTILITIES - LOCATIONS/INFORMATION ON PLANS

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

TREE REMOVAL - UTILITY RELOCATION

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

PLAN ELEVATIONS - U.S.C.S. MEAN SEA LEVEL DATUM

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

COMMITMENTS

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

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.

TREE REMOVAL

THE DISTRICT FOUR TREE COMMITTEE SHOULD BE CONTACTED PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

WINTER SHUTDOWN RESTRICTIONS ON COLD MILLED PROJECTS

Prior to winter shutdown the following steps shall be taken:

- All cold milled surfaces shall be overlaid.
- All lanes shall be reopened to traffic.
- Manholes, where applicable, shall be adjusted to the elevation of the binder course/leveling binder to ease in plowing snow, and re-adjusted to finished grade in the Spring. The initial manhole adjustment will be paid for at the contract unit price and any re-adjustment, as directed by the Engineer, will be paid for in accordance with Article 109.04.
- Temporary or permanent pavement marking shall be placed as applicable.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Uses:	Surface Course (1 1/2")	Binder Course (2 1/4")	HMA Shoulder (Surface Lift)
AC/PG:	SBS or SBR 76-22	SBS or SBR 76-22	PG 64-22
RAP % (Max):	10%	10%	15%
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	3.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 9.5 or IL 12.5	IL 9.5 or IL 12.5	IL 9.5 or IL 12.5
Friction Aggregate:	Mixture D (Dolomite only)	N.A.	Mixture C

Mixture Uses:	HMA Binder (Var. Depth)	HMA Shoulder (Lower Lifts)	HMA Base Course Widening
AC/PG:	PG 64-22	PG 64-22	PG 64-22
RAP % (Max):	25%	25%	25%
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 19.0	IL 19.0	IL 19.0
Friction Aggregate:	N.A.	N.A.	N.A.

NOTES: 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.
2) FOR IL 12.5 MIXES, CA14 WILL BE ALLOWED IN CONJUNCTION WITH CA16.

STATUS OF UTILITIES TO BE ADJUSTED

COMPANY	OFFSET	LOCATION	TYPE OF UTILITY	CONFLICT	DISPOSITION
1. AMEREN ILLINOIS	58' RT.	STA. 805+76	POWER POLE	NEW DITCH	RELOCATE
2. PATEC/ MCLEOD USA/ WINDSTREAM	42' RT.	STA. 803+50 TO 804+50	FIBER OPTIC	NEW DITCH	CAUTION

THE ABOVE REPRESENTS THE BEST INFORMATION OF THE DEPARTMENT AND IS INCLUDED SOLELY FOR THE CONVENIENCE OF THE BIDDER. THE APPLICABLE PROVISIONS OF ARTICLES 105.07 AND 107.20 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL APPLY.

FILE NAME *	USER NAME * bmenery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, STANDARDS, INDEX OF SHEETS IL 8 OVER KICKAPOO CREEK				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2009 Projects\00379 IL 8 over Kickapoo Creek\CADD Sheets\0468697.dgn		LOHANS	REVISED -		1388	(Z-ID-BR-1)BR	PEORIA	89	2				
PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -			CONTRACT NO. 68697								
PLOT DATE = 3/20/2014	DATE -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY	ROADWAY	BRIDGE
				0004	0004	0011 S.N. 072-0229
20200100	EARTH EXCAVATION	CU YD	2515	2515		
20200500	EARTH EXCAVATION (WIDENING)	CU YD	60	60		
20400100	BORROW EXCAVATION	CU YD	8595	8595		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7280	7280		
25000300	SEEDING, CLASS 3	ACRE	1.75	1.75		
25000350	SEEDING, CLASS 7	ACRE	3	3		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	277	277		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	277	277		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	277	277		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	6.1	6.1		
<input type="checkbox"/> 25000750	MOWING	ACRE	2.25		2.25	
25100115	MULCH, METHOD 2	ACRE	4.5	4.5		
25100630	EROSION CONTROL BLANKET	SQ YD	4007	4007		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2698	2698		

NON-PART. (100% STATE)

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				URBAN		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY 0004	ROADWAY 0004	BRIDGE 0011 S.N. 072-0229
28000305	TEMPORARY DITCH CHECKS	FOOT	144	144		
28000400	PERIMETER EROSION BARRIER	FOOT	2862	2862		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28100109	STONE RIPRAP, CLASS A5	SQ YD	1179			1179
28200200	FILTER FABRIC	SQ YD	1179			1179
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	753	753		
35650300	BASE COURSE WIDENING 8"	SQ YD	753	753		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	864	864		
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	710	710		
40600952	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	611	611		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	922	922		
40603212	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50	TON	350	350		
40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	263	263		
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	45	45		

FILE NAME : P:\Projects\2008 Projects\080379 IL B over Kickapoo Creek\CADD Sheets\0468697.dwg	USER NAME : barny	DESIGNED - DRAWING	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 8 OVER KICKAPOO CREEK			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 100.0000' / in.	CHECKED -	REVISED -	1388					(Z-10-BR-1)BR	PEORIA	89	5	
PLOT DATE : 3/20/2014	DATE -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						
							CONTRACT NO. 68697					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY 0004	ROADWAY 0004	BRIDGE 0011
						S.N. 072-0229
44000100	PAVEMENT REMOVAL	SQ YD	466	466		
44004250	PAVED SHOULDER REMOVAL	SQ YD	432	432		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	140	140		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2		
50105220	PIPE CULVERT REMOVAL	FOOT	158	158		
50200100	STRUCTURE EXCAVATION	CU YD	188			188
50300225	CONCRETE STRUCTURES	CU YD	208.7			208.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	432.5			432.5
50300260	BRIDGE DECK GROOVING	SQ YD	1392			1392
50300300	PROTECTIVE COAT	SQ YD	1817			1817
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1			1
50500505	STUD SHEAR CONNECTORS	EACH	7902			7902
50800105	REINFORCEMENT BARS	POUND	12550			12550

FILE NAME = P:\Projects\2008 Projects\09379 IL 8 over Kickapoo Creek\CV\000 Sheets\0460697.dwg	USER NAME = bamery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 8 OVER KICKAPOO CREEK				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	1388	12-10-BR-1BR	PEORIA	89	6
PLOT DATE = 3/20/2014	DATE -	REVISED -					FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT			
									CONTRACT NO. 68697				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY 0004	ROADWAY 0004	BRIDGE 0011
						S.N. 072-0229
		URBAN				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	169240			169240
50800515	BAR SPLICERS	EACH	1700			1700
50800530	MECHANICAL SPLICERS	EACH	224			224
51201600	FURNISHING STEEL PILES HP12X53	FOOT	435			435
51202305	DRIVING PILES	FOOT	435			435
51203600	TEST PILE STEEL HP12X53	EACH	2			2
51500100	NAME PLATES	EACH	1			1
* 51603000	DRILLED SHAFT IN SOIL	CU YD	110.6			110.6
* 51604000	DRILLED SHAFT IN ROCK	CU YD	53.8			53.8
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68.0			68.0
52100520	ANCHOR BOLTS, 1"	EACH	72			72
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	85	85		
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	110	110		
54213879	STEEL END SECTIONS 24"	EACH	2	2		

* SPECIALTY ITEM

FILE NAME :	USER NAME : barmy	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 8 OVER KICKAPOO CREEK			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2000 Projects\00379 IL 8	Kickapoo Creek\CV\4000 Sheets\048897	CHECKED -	REVISED -					1388	42-10-BR-1BR	PEORIA	89	7
	PLOT SCALE = 100,0000' / 1" =	CHECKED -	REVISED -					CONTRACT NO. 68697				
	PLOT DATE = 3/20/2014	DATE -	REVISED -					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY 0004	ROADWAY 0004	BRIDGE 0011
				S.N. 072-0229		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56			56
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	350.0	350.0		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	400	400		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	20	20		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		

* SPECIALTY ITEM

FILE NAME :	USER NAME : bamey	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 8 OVER KICKAPOO CREEK				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
P:\Projects\2008 Projects\00379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sh-01000.dwg		CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	1388	12-10-BR-11BR	PEORIA	89	8
PLOT SCALE : 100.0000' / 1" =		DATE -	REVISED -						CONTRACT NO. 68697						
PLOT DATE : 3/20/2014									FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

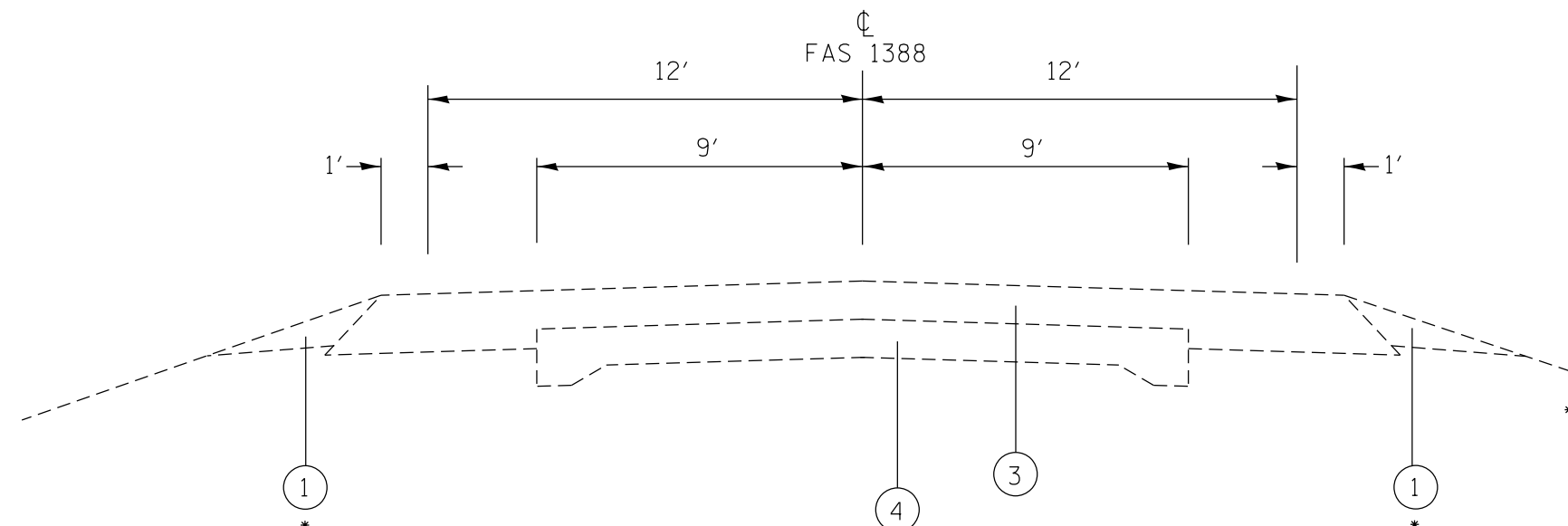
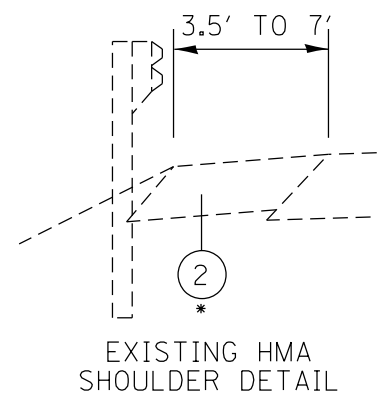
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN	PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
					ROADWAY 0004	ROADWAY 0004	BRIDGE 0011
							S.N. 072-0229
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	164	164			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2820	2820			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	26	26			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2669	2669			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	942	942			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1200.0	1200.0			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1175.0	1175.0			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3666	3666			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8			
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	6	6			

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PEORIA COUNTY 80% FED. 20% STATE	PEORIA COUNTY 0% FED. 100% STATE	PEORIA COUNTY 80% FED. 20% STATE
				ROADWAY 0004	ROADWAY 0004	BRIDGE 0011
				S.N. 072-0229		
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	53	53		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	180	180		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	230			230
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1980			1980
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	100			100
X6081000	FLAP GATE (SPECIAL)	EACH	2	2		
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	165	165		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	23	23		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4			4
Z0026407	TEMPORARY SHEET PILING	SQ FT	910			910
Z0034105	MATERIAL TRANSFER DEVICE	TON	263	263		

* SPECIALTY ITEM

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\Projects\2009 Projects\00379 IL 8	Kickapoo Creek\CV\CA00 Sheets\0468697	DRW	REVISED			1388	12-10-BR-1BR	PEORIA	89	10	
PLOT SCALE : 100.0000' / 1"	CHECKED :	REVISED :	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE : 3/20/2014	DATE :	REVISED :	CONTRACT NO. 68697								



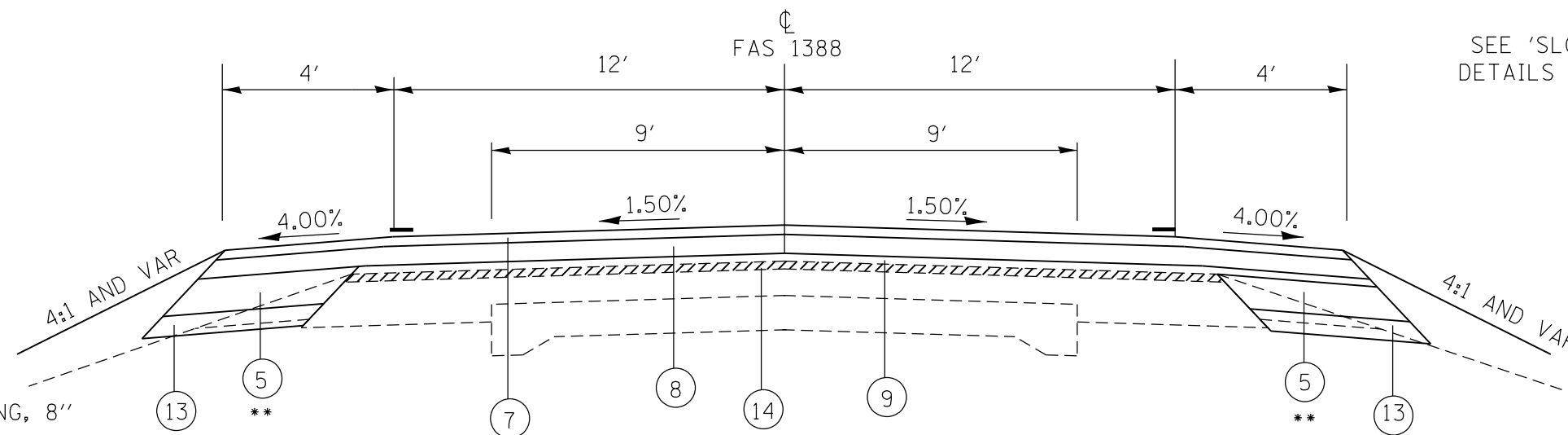
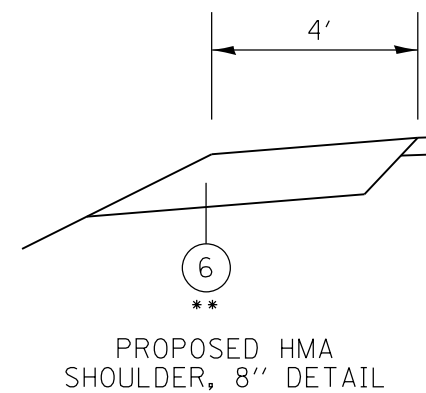
* EXISTING AGGREGATE SHOULDER
 LT. STA. 794+26.61 TO STA. 797+57
 RT. STA. 794+26.61 TO STA. 797+55
 LT. STA. 804+50 TO STA. 807+19.02
 RT. STA. 804+50 TO STA. 807+19.02

EXISTING HMA SHOULDER
 LT. STA. 797+57 TO STA. 799+71
 RT. STA. 797+55 TO STA. 799+71
 LT. STA. 802+47 TO STA. 804+50
 RT. STA. 802+47 TO STA. 804+50

EXISTING GUARDRAIL
 RT. STA. 798+70.82 TO STA. 799+70.68
 LT. STA. 798+71.21 TO STA. 799+70.77
 LT. STA. 802+48.64 TO STA. 803+48.99
 RT. STA. 802+49.33 TO STA. 803+48.99

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING HMA SHOULDER
- ③ EXISTING HOT-MIX PAVEMENT
- ④ EXISTING PCC PAVEMENT (9-6-9)

EXISTING TYPICAL SECTION
 STA. 794+26.61 TO STA. 799+71.10
 STA. 802+47.27 TO STA. 807+19.02



SEE 'SLOPE STEPS DETAIL' SHEET FOR DETAILS OF BENCHING EXISTING SLOPES.

- ⑤ PROPOSED BASE COURSE WIDENING, 8"
- ⑥ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- ⑦ PROPOSED POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- ⑧ PROPOSED POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-12.5, N50 2 1/4"
- ⑨ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (VARIABLE DEPTH)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 6"
- ⑭ PROPOSED HOT MIX ASPHALT SURFACE REMOVAL

PROPOSED TYPICAL SECTION
 STA. 794+26.61 TO STA. 796+59.82
 STA. 804+70.62 TO STA. 807+19.02

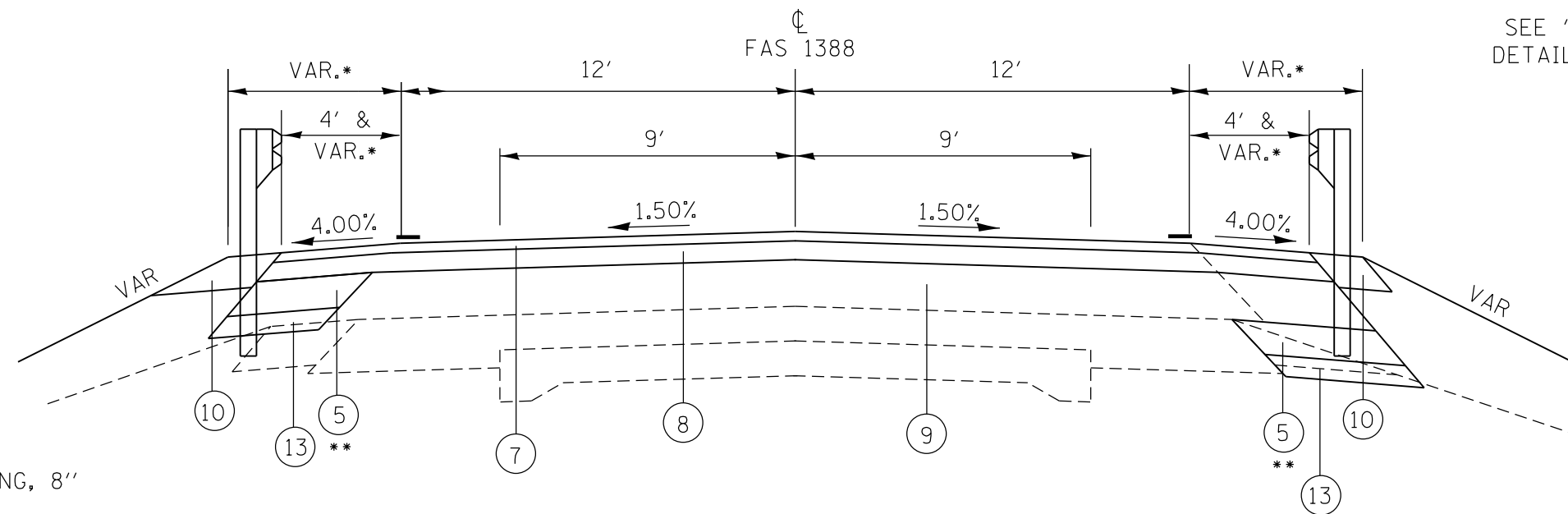
*SEE SHOULDER & GUARDRAIL SHEET FOR LIMITS AND WIDTHS OF GUARDRAIL AGGREGATE (EROSION CONTROL)

**SEE STAGE CONSTRUCTION PLAN SHEET FOR LIMITS AND WIDTHS OF BASE COURSE WIDENING 8" OR HMA SHOULDER 8".

***STA. 794+26.61 TO 795+35.24
 STA. 806+15.58 TO STA. 807+19.02

FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS IL 8 OVER KICKAPOO CREEK		F.A.S. RTE. 1388	SECTION (Z-1D-BR-1)BR	COUNTY PEORIA	TOTAL SHEETS 89	SHEET NO. 12	
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sh.dgn		CHECKED -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 68697			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
PLOT DATE = 3/20/2014												

SEE 'SLOPE STEPS DETAIL' SHEET FOR DETAILS OF BENCHING EXISTING SLOPES.

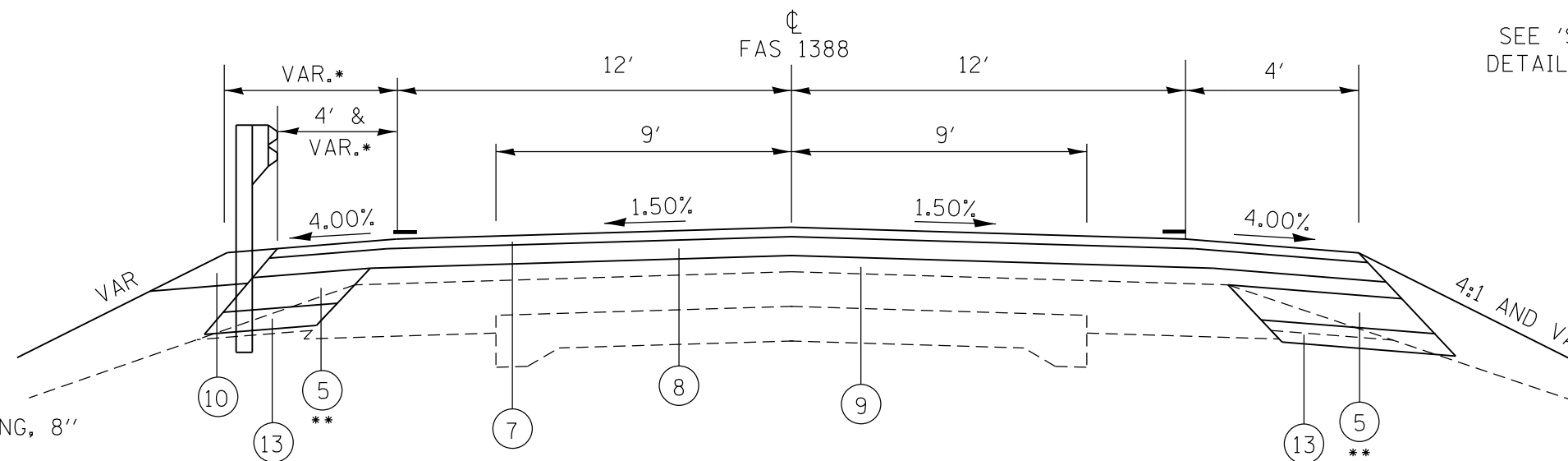


- ⑤ PROPOSED BASE COURSE WIDENING, 8"
- ⑦ PROPOSED POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- ⑧ PROPOSED POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-12.5, N50 2 1/4"
- ⑨ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (VARIABLE DEPTH)
- ⑩ PROPOSED GUARDRAIL AGGREGATE (EROSION CONTROL)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 6"

PROPOSED TYPICAL SECTION
 STA. 796+59.82 TO STA. 798+75.39
 STA. 803+05.05 TO STA. 804+20.62

*SEE SHOULDER & GUARDRAIL SHEET FOR LIMITS AND WIDTHS OF GUARDRAIL AGGREGATE (EROSION CONTROL)
 **SEE STAGE CONSTRUCTION PLAN SHEET FOR LIMITS AND WIDTHS OF BASE COURSE WIDENING 8" OR HMA SHOULDER 8".

SEE 'SLOPE STEPS DETAIL' SHEET FOR DETAILS OF BENCHING EXISTING SLOPES.

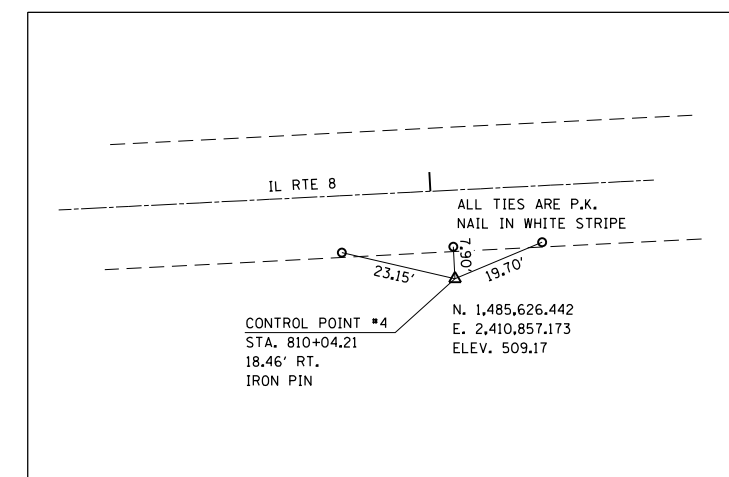
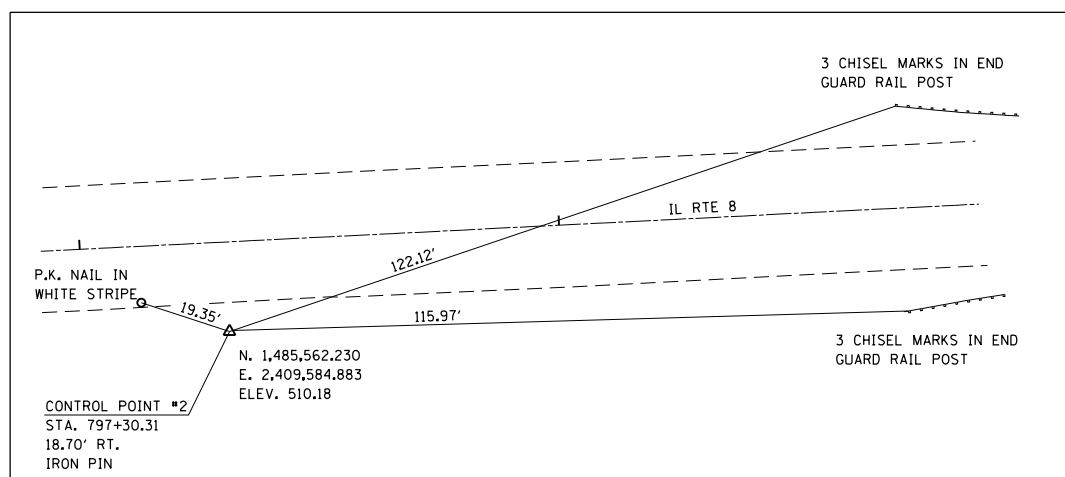
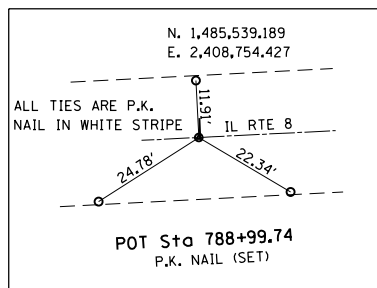
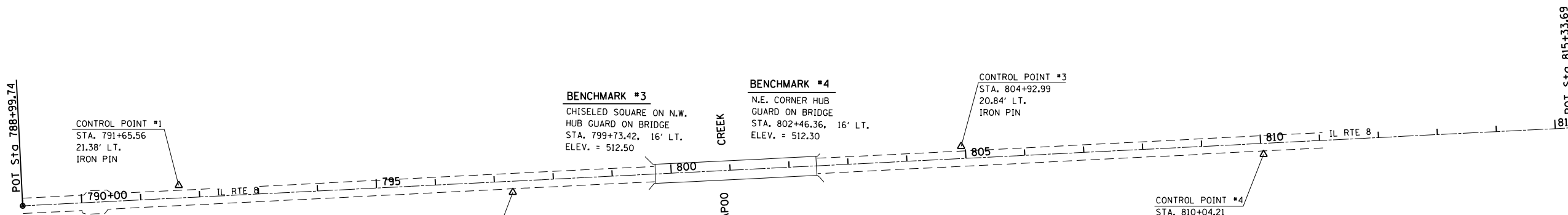
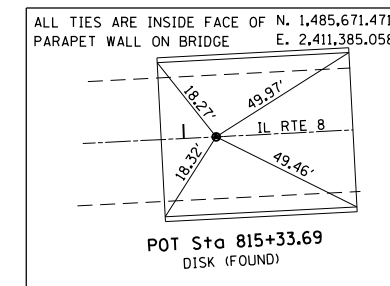
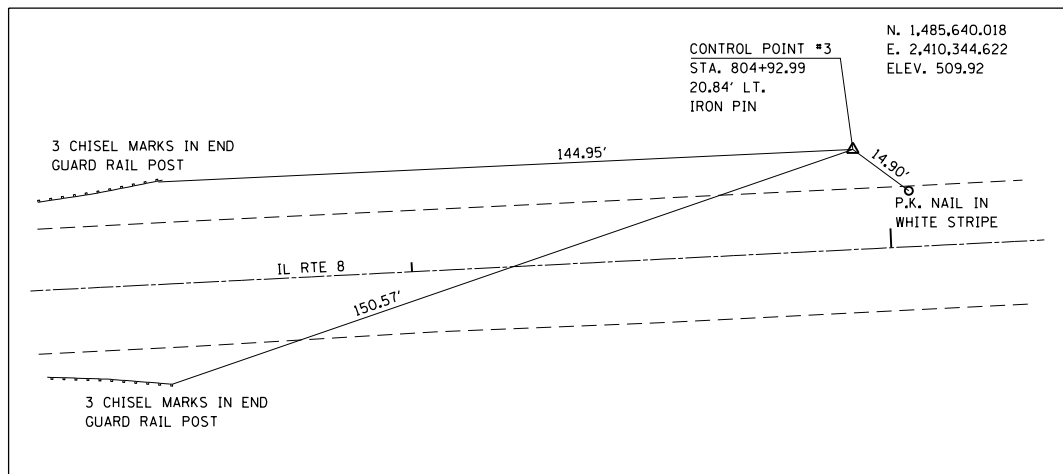
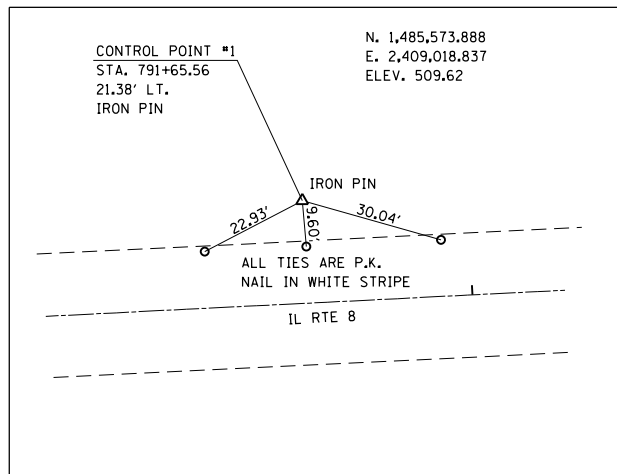
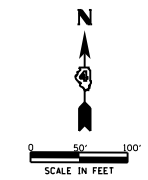


- ⑤ PROPOSED BASE COURSE WIDENING, 8"
- ⑦ PROPOSED POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- ⑧ PROPOSED POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-12.5, N50 2 1/4"
- ⑨ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (VARIABLE DEPTH)
- ⑩ PROPOSED GUARDRAIL AGGREGATE (EROSION CONTROL)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 6"
- ⑭ PROPOSED HOT MIX ASPHALT SURFACE REMOVAL

PROPOSED TYPICAL SECTION
 STA. 804+20.62 TO STA. 804+70.62

*SEE SHOULDER & GUARDRAIL SHEET FOR LIMITS AND WIDTHS OF GUARDRAIL AGGREGATE (EROSION CONTROL)
 **SEE STAGE CONSTRUCTION PLAN SHEET FOR LIMITS AND WIDTHS OF BASE COURSE WIDENING 8" OR HMA SHOULDER 8".

FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS IL 8 OVER KICKAPOO CREEK		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sh.dgn		CHECKED -	REVISED -		1388	(Z-1D-BR-1)BR	PEORIA	89	13		
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		CONTRACT NO. 68697						
PLOT DATE = 3/20/2014					SCALE: N.T.S.		SHEET NO. 2 OF 3 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



- | | |
|--|--|
| BENCHMARK #1
CONTROL POINT #1
IRON PIN
STA. 791+65.56, 21.38' LT.
ELEV. = 509.62 | BENCHMARK #4
N.E. CORNER HUB
GUARD ON BRIDGE
STA. 802+46.36, 16' LT.
ELEV. = 512.30 |
| BENCHMARK #2
CONTROL POINT #2
IRON PIN
STA. 797+30.31, 18.70' RT.
ELEV. = 510.18 | BENCHMARK #5
CONTROL POINT #3
IRON PIN
STA. 804+92.99, 20.84' LT.
ELEV. = 509.92 |
| BENCHMARK #3
CHISELED SQUARE ON N.W.
HUB GUARD ON BRIDGE
STA. 799+73.42, 16' LT.
ELEV. = 512.50 | BENCHMARK #6
CONTROL POINT #4
IRON PIN
STA. 810+04.21, 18.46' RT.
ELEV. = 509.17 |

ALL ELEVATIONS NAVD 29

FILE NAME P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697 - DRAWN\tiesbenchmarks.dgn	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES & BENCHMARKS		F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1/32" = 1' / in.	CHECKED -	REVISED -	REVISED -		PROJECT	JOB NO. R-94-002-12	1388	(Z-1D-BR-1)BR	PEORIA	89	14	
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -		SCALE: 1" = 100'	SHEET NO. 1 OF 1 SHEETS	STA. 788+99.74 TO STA. 815+33.69	CONTRACT NO. 68697				
							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

PAVEMENT SCHEDULE

LOCATION STATION TO STATION	AGGREGATE SURFACE COURSE, TYPE B	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	HOT-MIX ASPHALT SHOULDERS, 8"	BASE COURSE WIDENING 8"	SUBBASE GRANULAR MATERIAL TYPE B 6"
	TON	GALLON	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD
PRE - STAGE 1									
STA RT 794+79.34 TO 799+71.10		23.1						230.9	230.9
STA RT 802+47.27 TO 806+78.94		18.0						180.0	180.0
STA RT 803+61.10 TO 806+54.60	435.8								
STA LT 803+68.86 TO 806+55.08	428.0								
STAGE 1									
STA LT 794+26.61 TO 794+79.40							23.4		
STA LT 794+26.61 TO 798+75.41				91.1					
STA LT 794+79.34 TO 798+75.00		192.1						176.0	176.0
STA LT 795+50.00 TO 799+00.00			296.6						
STA LT 798+75.39 TO 798+81.39						12.4			
STA LT 802+99.05 TO 803+05.05						12.4			
STA LT 803+00.00 TO 806+00.00			225.5						
STA LT 803+05.05 TO 806+78.80		159.5		86.1				166.1	166.1
STA LT 805+89.97 TO 806+60.03							28.5		
STA LT 806+78.74 TO 807+19.02							17.9		
STAGE 2									
STA RT 794+26.61 TO 794+79.40							23.4		
STA RT 794+79.34 TO 798+75.41				88.7	15.8				
STA RT 796+50.00 TO 798+50.00		89.6							
STA RT 796+50.00 TO 798+50.00		85.0							
STA RT 798+75.39 TO 798+81.39			225.3						
STA RT 802+99.05 TO 803+05.05						10.2			
STA RT 802+99.05 TO 803+05.05						10.2			
STA RT 803+00.00 TO 806+00.00			174.7						
STA RT 803+05.05 TO 806+78.80		143.1		83.8	235.6				
STA RT 805+89.97 TO 806+60.03							28.5		
STA TT 806+78.74 TO 807+19.02							17.9		
PROJECT TOTAL	864	710	922	350	263	45	140	753	753

NOTE: SEE BRIDGE BILL OF MATERIAL FOR ADDITIONAL QUANTITIES

REMOVAL

LOCATION STATION TO STATION	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT	APPROACH SLAB REMOVAL
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
PRE-STAGE 1					
STA 797+54.72 TO 799+71.10		107.7			
STA 802+47.27 TO 804+50.75		102.0			
STAGE 1					
STA 794+56.61 TO 794+86.33			43.0		
STA 794+86.48 TO 795+35.00				156.7	
STA 797+54.72 TO 799+71.10		108.3			
STA 798+78.39 TO 799+67.01	143.0				
STA 799+67.10 TO 799+71.10					5.7
STA 802+47.27 TO 802+51.27					5.8
STA 802+47.27 TO 804+50.75		114.2			
STA 802+51.27 TO 803+02.05	80.7				
STA 806+15.21 TO 806+56.38				146.3	
STA 806+56.30 TO 806+89.03			46.3		
STAGE 2					
STA 794+26.61 TO 795+35.00				157.3	
STA 794+56.61 TO 794+86.33			43.3		
STA 798+78.39 TO 799+67.01	112.3				
STA 798+78.00 TO 799+71.00	44.6				
STA 799+67.10 TO 799+71.10					5.8
STA 802+47 TO 802+51					5.9
STA 802+51.27 TO 803+02.05	66.6				
STA 802+47 TO 803+02	19.2				
STA 806+15.21 TO 806+56.38				150.7	
STA 806+56.30 TO 806+89.03			47.7		
PROJECT TOTAL	466	432	180	611	23

CONCRETE BARRIER

LOCATION STATION TO STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
	FOOT	FOOT	EACH	EACH
STAGE 1				
STA LT 794+51.85 TO 794+79.35			1	
STA LT 794+79.35 TO 795+79.00	100.0			
STA RT 795+79.00 TO 805+79.16	1000.0			
STA LT 805+79.16 TO 806+78.74	100.0			
STA LT 806+78.74 TO 807+06.24			1	
STAGE 2				
STA RT 794+64.30 TO 794+91.59				1
STA RT 794+91.72 TO 795+79.00		87.5		
STA LT 795+79.00 TO 805+79.16		1000.0		
STA RT 805+79.16 TO 806+94.70		87.5		
STA RT 806+66.20 TO 806+93.70				1
PROJECT TOTAL	1200.0	1175.0	2	2

GUARDRAIL EROSION CONTROL

LOCATION STATION TO STATION	SHOULDER WIDTH	GUARDRAIL AGGREGATE EROSION CONTROL
	FOOT	TON
STAGE 1		
STA LT 796+60.41 TO 798+96.39	4	48.8
STA LT 802+84.05 TO 804+71.00	5	38.7
STAGE 2		
STA RT 796+63.86 TO 798+96.39	5	48.8
STA LT 802+84.05 TO 804+20.61	4	28.6
PROJECT TOTAL	18	165

GUARDRAIL

LOCATION STATION TO STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL TYPE 6	GUARDRAIL REMOVAL	GUARDRAIL MARKERS TYPE A	BARRIER WALL MARKERS TYPE B	TERMINAL MARKER DIRECT APPLIED
	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH
STAGE 1							
STA LT 796+78.24							1
STA LT 796+78.24 TO 797+28.24		1					
STA LT 796+78.24 TO 799+98.89					2		
STA LT 797+28.24 TO 798+53.24	125.0						
STA LT 798+53.24 TO 798+98.89			1				
STA LT 798+70.82 TO 799+70.68				99.8			
STA LT 798+98.89 TO 802+81.55						3	
STA LT 802+49.33 TO 803+48.98				100.6			
STA LT 802+81.55 TO 803+27.20			1				
STA LT 802+81.55 TO 804+52.15					1		
STA LT 803+27.20 TO 804+02.20	75.0						
STA LT 804+02.02 TO 804+52.15		1					
STA LT 804+52.16							1
STAGE 2							
STA RT 796+78.24							1
STA RT 796+78.24 TO 797+28.24		1					
STA RT 796+78.24 TO 798+28.24					1		
STA RT 797+28.24 TO 798+53.24	125.0						
STA RT 798+53.24 TO 798+98.89			1				
STA RT 798+70.82 TO 799+70.68				100.1			
STA RT 798+98.89 TO 802+81.55						3	
STA RT 802+49.33 TO 803+48.98				99.9			
STA RT 802+81.55 TO 803+27.20			1				
STA RT 802+81.55 TO 804+02.20					2		
STA RT 803+27.20 TO 803+52.20	25.0						
STA RT 803+52.20 TO 804+02.20		1					
STA RT 804+02.21							1
PROJECT TOTAL	350.0	4	4	400	6	6	4

EARTHWORK

LOCATION STATION TO STATION	EARTHWORK EXCAVATION (WIDENING)	EARTHWORK EXCAVATION	FOR INFORMATION ONLY				BORROW SWELL FACTOR	BORROW EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	REMARKS
			AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)				
			%	CU YD	CU YD	CU YD				
PRE-STAGE 1	CU YD	CU YD								
STA RT 797+50.00 TO 800+00.00	28		41.70%	11.81	0	12	0.18	14		
STA RT 802+40.00 TO 805+00.00	27		41.68%	11.35	0	11	0.18	13		
STA RT 803+50.00 TO 807+00.00		14	41.71%	5.76	6517	-8511	0.18	7683		
STA RT 804+00.00 TO 807+00.00								3605		
STAGE 1										
STA LT 794+50.00 TO 807+50.00		1164	75.50%	878.47	453	425	0.18	502	1479 * OMIT STA 800+00.00 TO 802+00.00	
STAGE 2										
STA RT 794+50.00 TO 807+50.00		1334	76.09%	1014.69	1395	-380		380	2194 * OMIT STA 800+00.00 TO 802+00.00	
PROJECT TOTAL	60	2515						8595	7280	

PAVEMENT MARKING

LOCATION STATION TO STATION	TEMPORARY PAVEMENT MARKING - LINE 24" (FOOT)		TEMPORARY PAVEMENT MARKING - LINE 4" (FOOT)		PAVEMENT MARKING TAPE, TYPE III 4" (FOOT)		MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		TEMPORARY RUMBLE STRIPS	SHORT - TERM PAVEMENT MARKING
	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW		
	EACH FOOT									
STAGE 1										
STA RT 775+60.25									1	
STA RT 780+60.25									1	
STA RT 785+60.25									1	
STA LT 787+86.26									1	
STA LT 785+86.26									1	
STA LT 785+86.26									1	
STA RT 792+60.30	13									
STA RT 793+21.28 TO 808+37.30			1518							
STA RT 795+04.46 TO 806+52.09			1302							
STA LT 808+86.26	13									
STAGE 2										
STA 791+60.30 TO 808+88.47							3258	408		154
STA 792+60.30 TO 808+88.48										
STA LT 793+34.60 TO 808+24.27					1496					
STA LT 794+92.50 TO 806+65.49					1173					
PROJECT TOTAL	26	0	2820	0	2669	0	3258	408	6	154

SEEDING

LOCATION STATION TO STATION	SEEDING, CLASS 3		SEEDING, CLASS 7		NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	ACRE	POUND	POUND					
	ACRE								
PRE-STAGE 1									
STA RT 794+79.35 TO 799+00.39		0.29							0.29
STA RT 802+68.86 TO 806+78.74		0.48							0.48
STA RT 803+68.86 TO 806+85.04		0.45							0.45
STAGE 1									
STA LT 794+26.61 TO 799+54.24	0.19	0.19	34.7	34.7	34.7	34.7	0.8		0.38
STA LT 802+13.08 TO 802+37.91	0.00	0.00	0.9	0.9	0.9	0.9	0.0		0.01
STA LT 802+41.82 TO 806+05.00	0.34	0.34	61.5	61.5	61.5	61.5	1.4		0.68
STA LT 804+03.19 TO 807+19.02	0.17	0.17	30.2	30.2	30.2	30.2	0.7		0.34
STAGE 2									
STA RT 794+28.85 TO 799+88.96	0.33	0.33	59.8	59.8	59.8	59.8	1.3		0.66
STA RT 802+53.08 TO 802+67.30	0.00	0.00	0.2	0.2	0.2	0.2	0.0		0.002
STA RT 802+79.02 TO 806+05.00	0.33	0.33	58.8	58.8	58.8	58.8	1.3		0.65
STA RT 803+91.37 TO 807+19.02	0.17	0.17	30.7	30.7	30.7	30.7	0.7		0.34
PROJECT TOTAL	1.75	3.00	277	277	277	277	6.1		4.50

R.O.W. & SURVEY MARKERS

LOCATION	FURNISHING AND ERECTING R.O.W. MARKERS	PERMANENT SURVEY MARKERS, TYPE 1
	EACH	EACH
STAGE 2		
PLACED ON BRIDGE		1
STA 803+58.52	1	
STA 803+61.75	1	
STA 803+68.21	1	
STA 803+71.44	1	
STA 806+60.00	2	
STA 806+95.00	2	
PROJECT TOTAL	8	1

PAVEMENT MARKING REMOVAL

LOCATION STATION TO STATION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
	SQ FT	SQ FT
STAGE 1		
STA 792+60.44 TO 795+79.00		27
STA 805+79.08 TO 808+88.56		26
STAGE 2		
STA RT 792+60.30	26	
STA 793+34.60 TO 808+24.27	499	
STA 794+92.50 TO 806+65.49	391	
STA LT 808+86.26	26	
PROJECT TOTAL	942	53

DRAINAGE REMOVAL

LOCATION STATION TO STATION	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL
	EACH	FOOT
STAGE 1		
STA LT 798+70.48 TO 799+51.31		81
STA LT 798+70.74	1	
STAGE 2		
STA LT 799+02.61	1	
STA LT 799+02.62 TO 799+78.68		77
PROJECT TOTAL	2	158

EROSION CONTROL

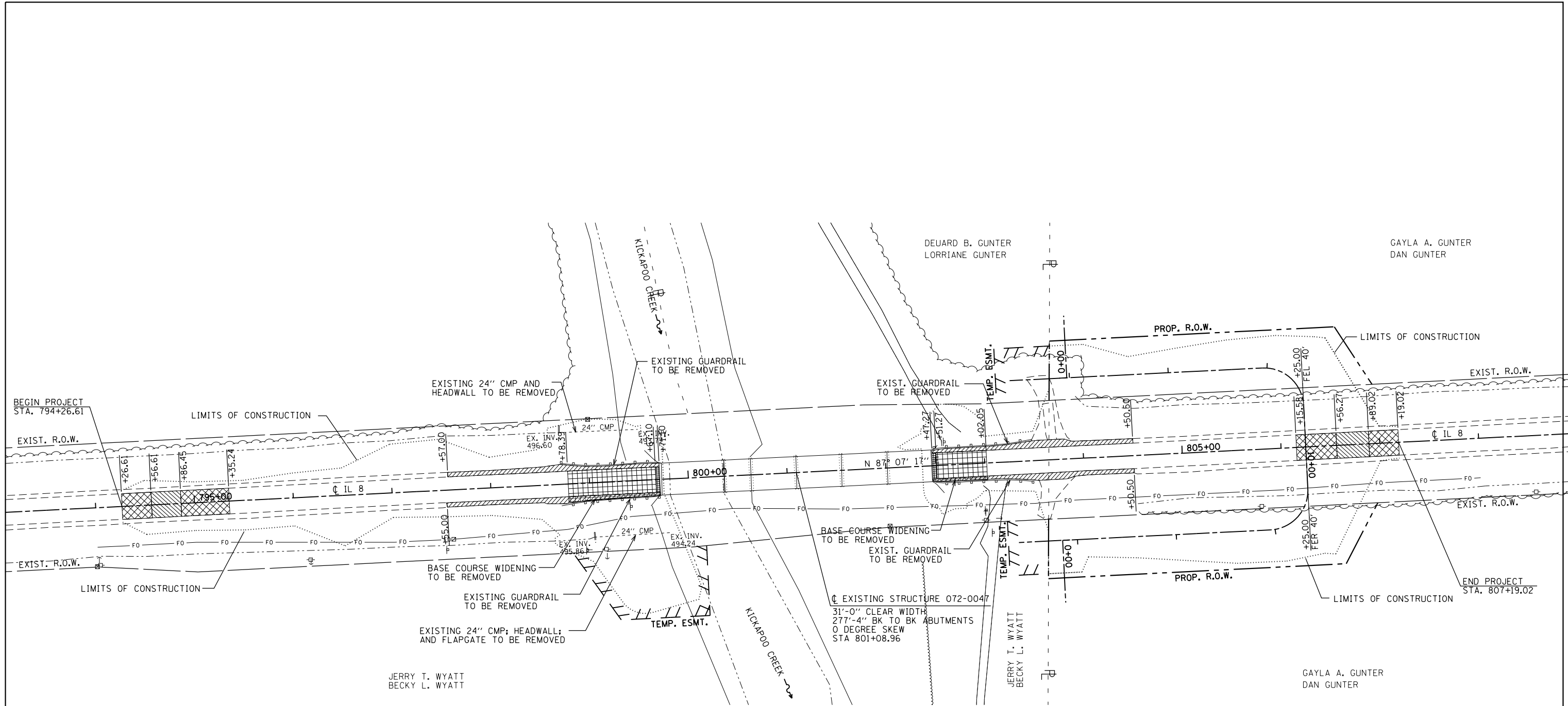
LOCATION STATION TO STATION	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET & PIPE PROTECTION
	SQ YD	SQ YD	FOOT	FOOT	EACH
PRE-STAGE 1					
STA RT 794+26.61 TO 798+54.25				458.7	
STA LT 794+26.61 TO 798+54.25				353.0	
STA RT 800+6.82 TO 806+79.26				804.1	
STA LT 800+6.82 TO 806+79.26				673.4	
STAGE 1					
STA LT 794+26.61 TO 798+51.72				456.4	
STA LT 794+26.61 TO 796+59.82	188.6				
STA LT 796+60.83 TO 799+54.10		769.5			
STA LT 798+58.29 TO 798+64.80					1
STA LT 798+64.91 TO 799+78.75				116.5	
STA LT 802+13.08 TO 802+37.00		23.5			
STA LT 802+41.00 TO 802+50.00		202.5			
STA LT 803+50.00 TO 806+06.00	1452.5				
STA LT 803+91.76 TO 804+08.42			12		
STA LT 804+03.24 TO 805+50.00	229.0				
STA LT 804+41.64 TO 804+58.40			12		
STA LT 804+91.70 TO 805+08.37			12		
STA LT 805+50.53 TO 807+19.02		582.9			
STA LT 805+42.06 TO 805+58.37			12		
STA LT 805+55.71 TO 805+72.37			12		
STA LT 805+69.71 TO 805+86.37			12		
STAGE 2					
STA RT 794+26.61 TO 796+59.82	401.3				
STA RT 796+59.82 TO 799+88.06		446.9			
STA RT 798+60.95 TO 798+67.34					1
STA RT 802+53.08 TO 802+67.65		4.1			
STA RT 802+79.05 TO 803+50.50		85.7			
STA RT 803+50.50 TO 806+05.00	1493.7				
STA RT 803+91.71 TO 804+08.01			12		
STA RT 803+90.79 TO 805+50.00	242.2				
STA RT 804+41.71 TO 804+58.37			12		
STA RT 804+91.71 TO 805+08.37			12		
STA RT 805+50.00 TO 807+19.02		583.2			
STA RT 805+42.01 TO 805+58.60			12		
STA RT 805+55.71 TO 805+72.38			12		
STA RT 805+69.71 TO 805+86.38			12		
PROJECT TOTAL	4007	2698	144	2862	2

PIPE CULVERTS






LOCATION STATION TO STATION	PIPE CULVERTS, CLASS D, TYPE 1 24"	PIPE CULVERTS, CLASS D, TYPE 2 24"	STEEL END SECTIONS 24"	FLAP GATE (SPECIAL)
	FOOT		EACH	EACH
STAGE 1				
STA LT 798+68.48 TO 799+53.34	85			
STA LT 798+68.35			1	
STA LT 798+52.98				1
STAGE 2				
STA RT 798+70.94 TO 799+80.75		110		
STA RT 798+70.35			1	
STA RT 799+80.83				1
PROJECT TOTAL	85	110	2	2

RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION STATION TO STATION	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
		TWO-WAY AMBER
	EACH	EACH
STAGE 1		
STA 792+60.44 TO 795+79.00	4	
STA 805+79.08 TO 808+88.56	4	
STAGE 2		
STA 792+60.44 TO 808+88.56		8
PROJECT TOTAL	8	8



REMOVAL LEGEND

-  HOT-MIX ASPHALT SURFACE
REMOVAL-BUTT JOINT
-  HOT-MIX ASPHALT SURFACE
REMOVAL, VARIABLE DEPTH
-  PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  PAVED SHOULDER REMOVAL

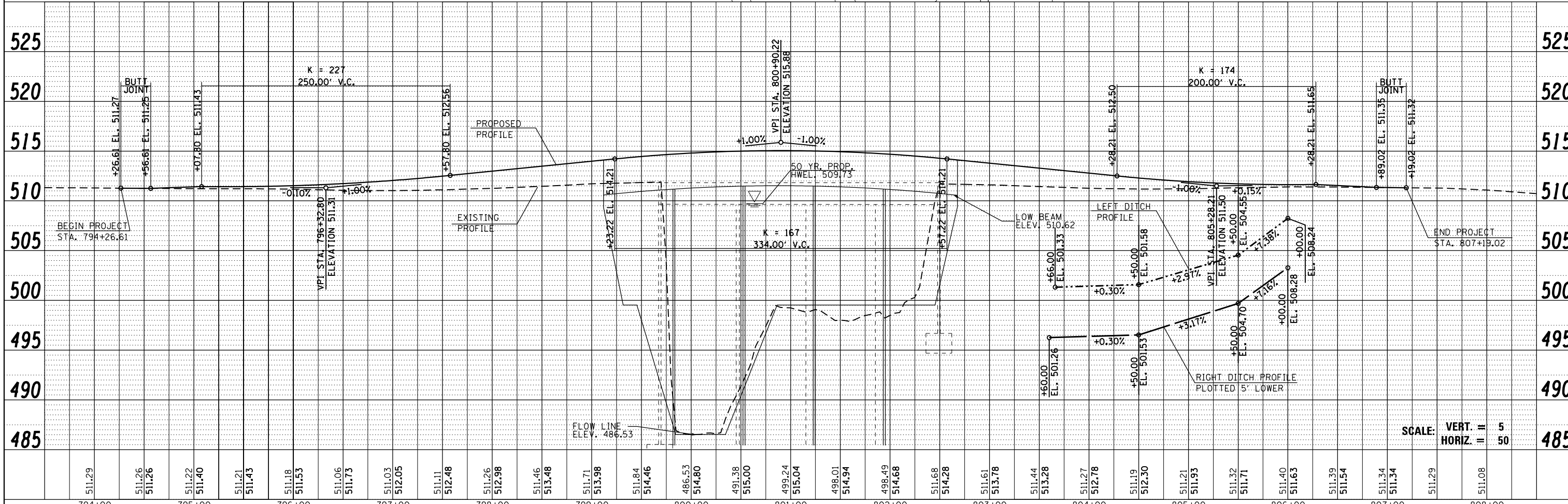
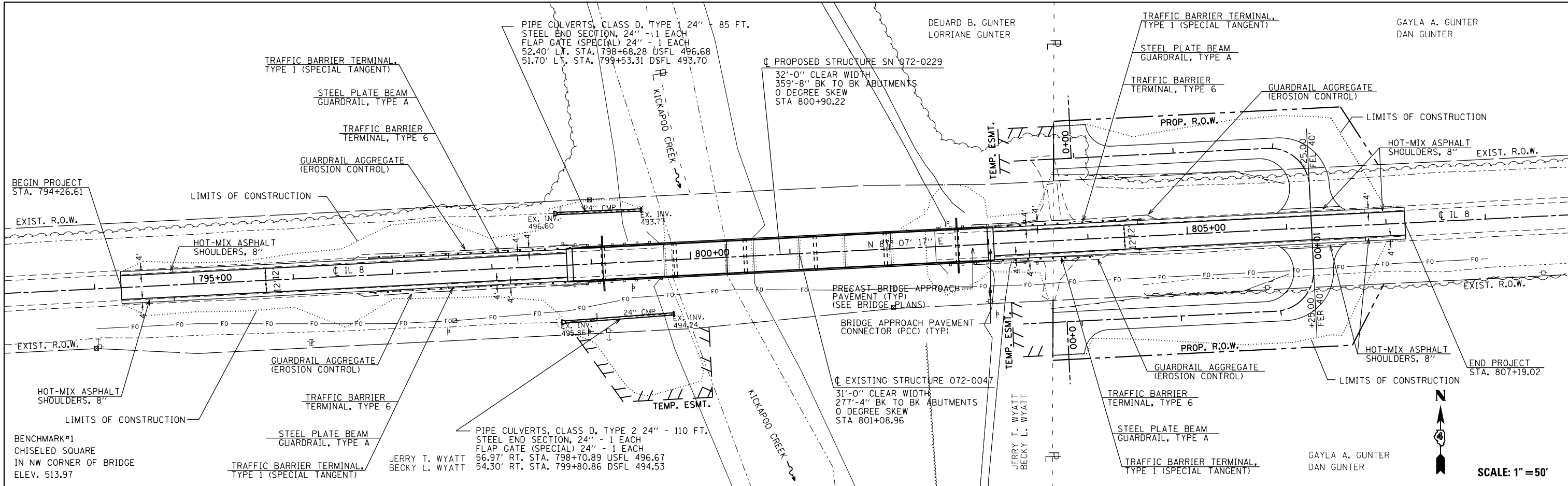


SCALE: 1" = 50'

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P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet DRAWN.dgn						1388	(Z-1-1D-BR-1)BR	PEORIA	89	17		
PLOT SCALE = 100.0000' / in.						CHECKED -	REVISED -	CONTRACT NO. 68697				
PLOT DATE = 3/20/2014						DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DESIGNED	
	NO. _____	

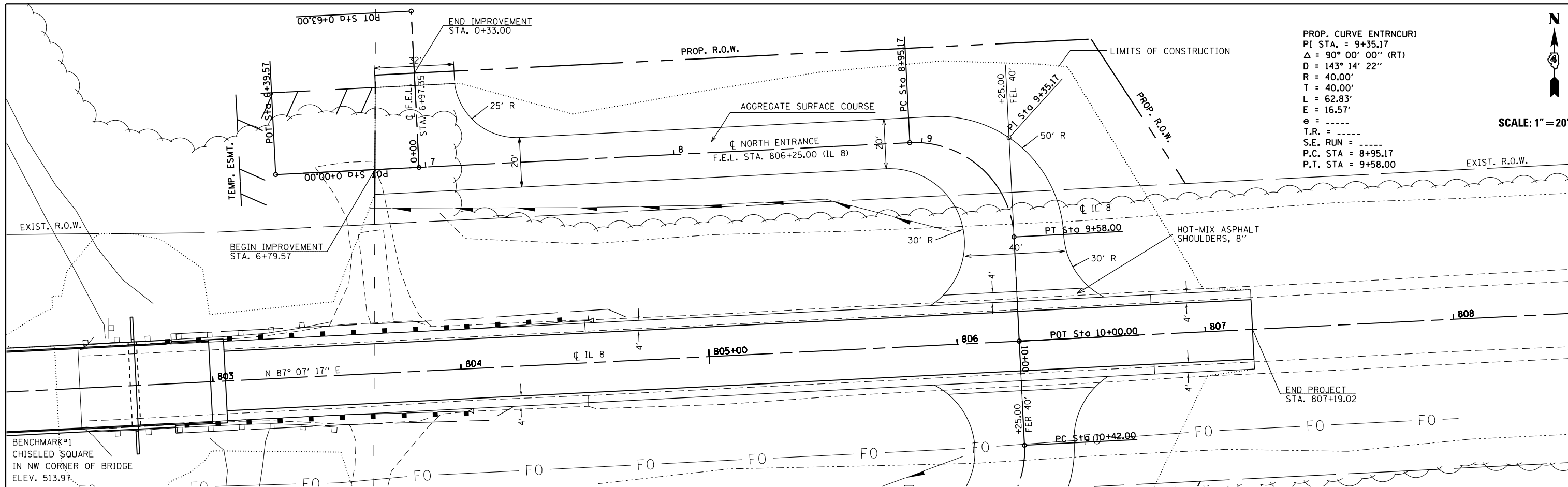
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO. _____	



FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE IL 8 OVER KICKAPOO CREEK	F.A.S. RT. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CADD Sheets\0468697-sht	DRAWN.dgn	CHECKED -	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	18
PLOT SCALE = 100.0002' / 1"		DATE -	REVISED -			CONTRACT NO. 68697				
PLOT DATE = 3/20/2014						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

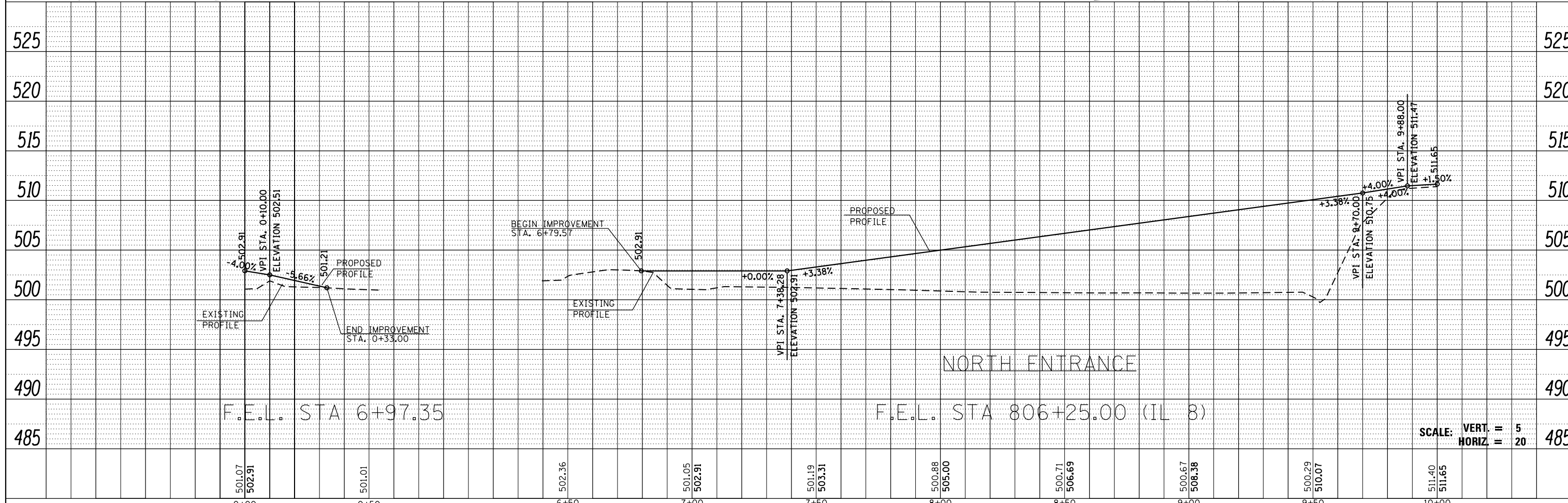
PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

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



PROP. CURVE ENTRNCUR1
 PI STA. = 9+35.17
 $\Delta = 90^\circ 00' 00''$ (RT)
 $D = 143^\circ 14' 22''$
 $R = 40.00'$
 $T = 40.00'$
 $L = 62.83'$
 $E = 16.57'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA = 8+95.17
 P.T. STA = 9+58.00

SCALE: 1" = 20'

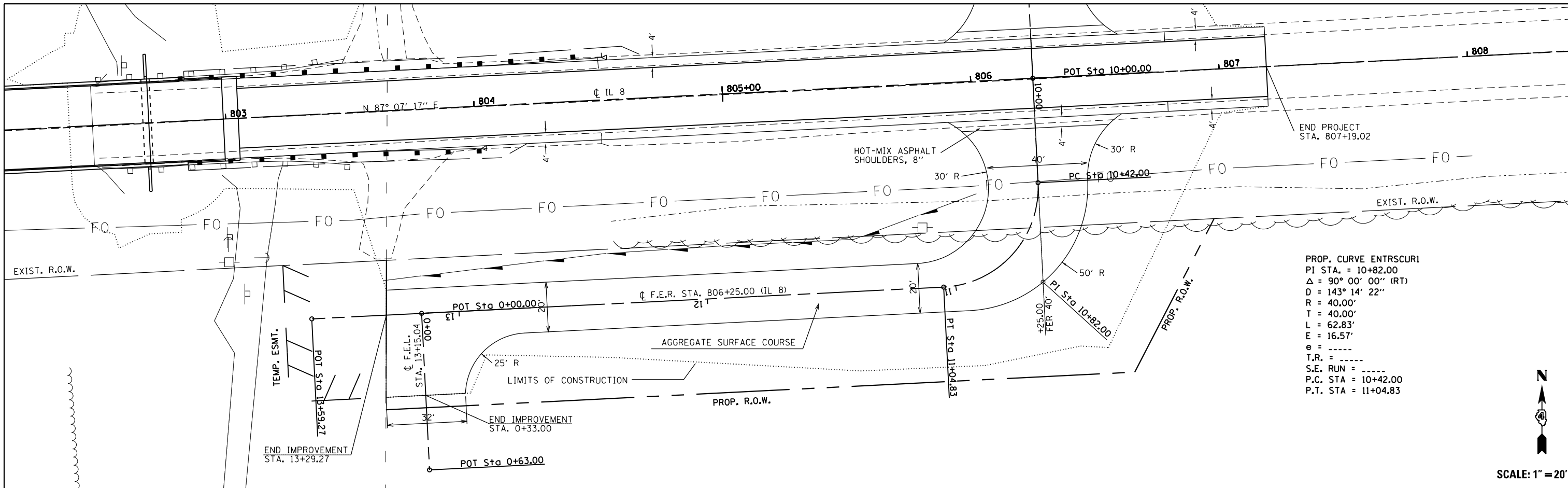


SCALE: VERT. = 5
 HORIZ. = 20

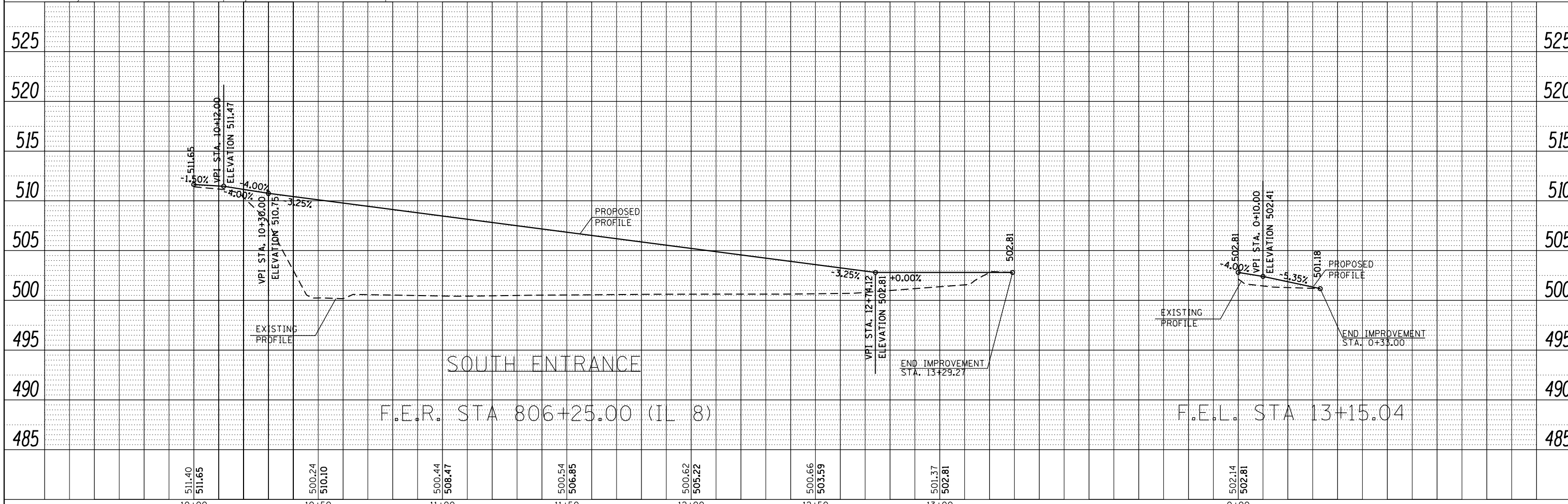
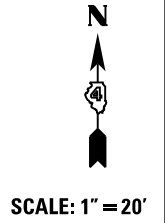
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P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CAD\CADD Sheets\0468697-sht	DRAWN	REVISED -	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	19	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 68697					
	PLOT DATE = 3/20/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

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



PROP. CURVE ENTRSCUR1
 PI STA. = 10+82.00
 $\Delta = 90^\circ 00' 00''$ (RT)
 $D = 143^\circ 14' 22''$
 $R = 40.00'$
 $T = 40.00'$
 $L = 62.83'$
 $E = 16.57'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA = 10+42.00$
 $P.T. STA = 11+04.83$



FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ENTRANCE PLAN AND PROFILE IL 8 OVER KICKAPOO CREEK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sht	DRAWN	REVISED -	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	20	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 68697					
	PLOT DATE = 3/20/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

GENERAL STAGING NOTES

1. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
2. USE AGGREGATE AT DRIVEWAYS AS REQUIRED TO MAINTAIN TEMPORARY ACCESS AND AT THE DIRECTION OF THE ENGINEER.
3. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WHERE REQUIRED TO AVOID CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS.
4. ALL REQUIRED TEMPORARY CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D. THE COST OF FURNISHING, INSTALLING AND RELOCATING THESE SIGNS WHERE NECESSARY IS TO BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS.
5. FOURTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL EXISTING UNDERGROUND UTILITIES.
6. THE CONTRACTORS OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THESE REQUIREMENTS.

TEMPORARY TRAFFIC SIGNAL NOTES

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 EXCEPT WHERE MODIFIED IN THE PLANS AND SPECIAL PROVISIONS.
2. TWO PHASE SIGNAL OPERATION IS REQUIRED. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. FOURTY-EIGHT HOURS PRIOR TO SIGNAL ACTIVATION, THE CONTRACTOR SHALL CONTACT THE DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN AT (309) 671-4474.
3. THE CONTRACTOR SHALL INSTALL EITHER A CONVENTIONAL TRAFFIC SIGNAL INSTALLATION THAT HAS ALL OF THE REQUIRED FUNCTIONALITY DESCRIBED WITHIN THE CONTRACT PLANS AND SPECIAL PROVISIONS OR USE SOLAR POWERED TRAILER MOUNTED TRAFFIC SIGNALS.
4. THE CONTRACTOR SHALL INSTALL ADVANCED DETECTOR LOOPS FOR BOTH MAINLINE APPROACHES FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HIGHWAY STANDARD 701321. THE ADVANCE DETECTOR LOOPS ARE TYPICALY LOCATED 100 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE DETECTOR LOOP LOCATIONS PRIOR TO INSTALLATION. THE CONTRACTOR MAY ELECT TO UTILIZE MICROWAVE DETECTION.
5. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" DIAMETER LED LENSES.
6. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AT THE LOCATIONS INDICATED ON THE PLAN SHEETS OR DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE, WOOD POLES, SERVICE DISCONNECT AND ALL OTHER ITEMS REQUIRED FOR THE TEMPORARY SERVICE INSTALLATION. THE CONTRACTOR SHALL FIELD VERIFY THE DISTANCE FROM THE TEMPORARY TRAFFIC SIGNALS TO THE TEMPORARY ELECTRICAL SERVICE PRIOR TO BIDDING.
8. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL M.U.T.C.D. REQUIREMENTS.
9. ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLY WITH THESE REQUIREMENTS AND PLAN SHEET DETAILS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION. THERE WILL BE NO ADDITIONAL COMPENSATION.

STAGE 1 CONSTRUCTION OF NORTH SIDE

1. INSTALL TEMPORARY CONCRETE BARRIERS, SIGNS, TRAFFIC SIGNALS, IMPACT ATTENUATORS AND TEMPORARY PAVEMENT MARKINGS AS DETAILED ON TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND WHICH ARE NECESSARY TO CLOSE NORTH SIDE. ANCHORS WILL BE REQUIRED FOR TEMPORARY CONCRETE BARRIERS.
2. EXISTING GUARDRAIL ON SOUTH SIDE TO REMAIN IN PLACE DURING STAGE 1 CONSTRUCTION.
3. INSTALL PERIMETER EROSION CONTROL FEATURES IN PREPERATION FOR EMBANKMENT AND EXCAVATION WORK ON NORTH SIDE.
4. REMOVE GUARDRAIL, BRIDGE APPROACH PAVEMENT, PAVEMENT, AND SHOULDERS ON NORTH SIDE.
5. REMOVE EXISTING STRUCTURE ON NORTH SIDE.
6. INSTALL TEMPORARY SOIL RETENTION SYSTEM AS SHOWN IN STRUCTURAL PLANS.
7. CONSTRUCT NORTH PORTION OF PROPOSED STRUCTURE (SEE BRIDGE PLAN STAGE 1).
8. CONSTRUCT BRIDGE APPROACH PAVEMENT, APPROACH PAVEMENT CONNECTORS, PAVEMENT ,AND HMA SHOULDER SECTION ON NORTH SIDE.
9. CONSTRUCT PROPOSED GUARDRAIL AND ALL OTHER COLLATERAL WORK FOR NORTH SIDE OF THE ROADWAY AS SHOWN.
10. STABILIZE AND PROTECT NEWLY COMPLETED EARTHWORK AREAS AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

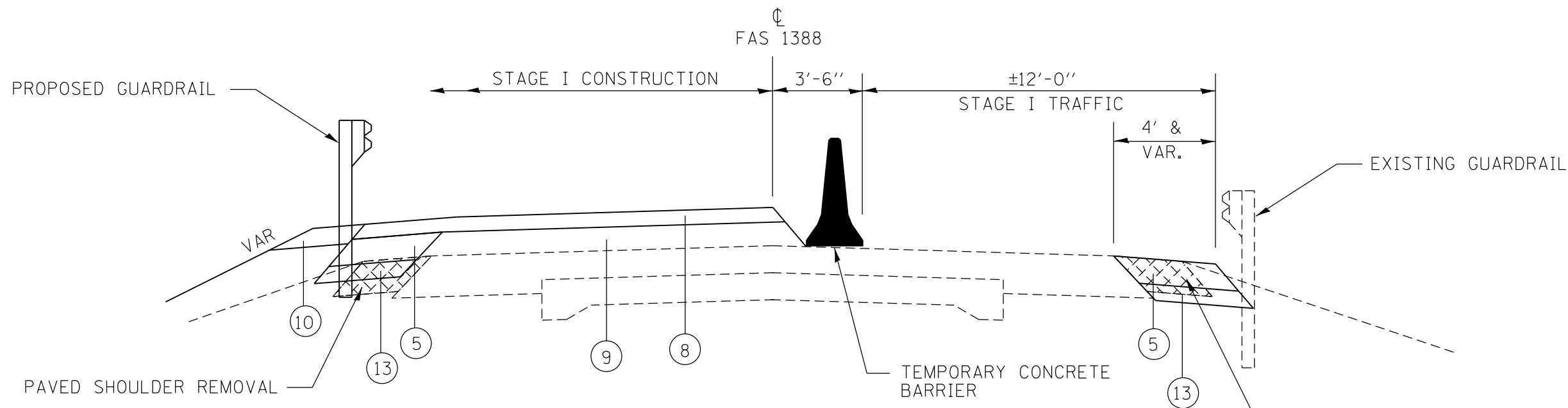
STAGE 2 CONSTRUCTION OF SOUTH SIDE

1. RELOCATE TEMPORARY CONCRETE BARRIERS, SIGNS, TEMPORARY IMPACT ATTENUATORS AND TEMPORARY MARKINGS AS DETAILED ON TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND WHICH ARE NECESSARY TO CLOSE THE SOUTH SIDE.
2. INSTALL PERIMETER EROSION CONTROL FEATURES IN PREPERATION FOR EMBANKMENT AND EXCAVATION WORK ON SOUTH SIDE.
3. REMOVE GUARDRAIL, BRIDGE APPROACH PAVEMENT, AND PAVEMENT ON SOUTH SIDE.
4. REMOVE REMAINING EXISTING STRUCTURE ON SOUTH SIDE.
5. REMOVE SECTIONS OF TEMPORARY SOIL RETENTION SYSTEM DESIGNATED TO BE REMOVED AFTER STAGE 1 CONSTRUCTION.
6. CONSTRUCT REMAINING SOUTH PORTION OF PROPOSED STRUCTURE (SEE BRIDGE PLAN STAGE 2).
7. CONSTRUCT BRIDGE APPROACH PAVEMENT, APPROACH PAVEMENT CONNECTORS, PAVEMENT, AND HMA SHOULDER SECTION ON SOUTH SIDE.
8. CONSTRUCT GUARDRAIL AND ALL OTHER COLLATERAL WORK FOR SOUTH SIDE OF THE ROADWAY AS SHOWN.
9. STABILIZE AND PROTECT NEWLY COMPLETED EARTHWORK AREAS AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
10. UPON COMPLETION OF STAGE 2, REMOVE TRAFFIC CONTROL PAVEMENT MARKINGS, TEMPORARY CONCRETE BARRIERS, IMPACT ATTENUATORS AND TEMPORARY SIGNALS. COST IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
11. PLACE FINAL 1 1/2" HMA SURFACE COURSE ON BOTH LANES.
12. UPON COMPLETION OF STAGE 2, INSTALL ALL PERMANENT PAVEMENT MARKINGS.

PRE-STAGE 1

1. CONSTRUCT RELOCATED FIELD ENTRANCES TO PROVIDE ACCESS TO FARM FIELDS PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.
2. REMOVE EXISTING HMA SHOULDERS ON SOUTH SIDE. CONSTRUCT BASE COUSE WIDENING ON SOUTH SIDE FOR STAGE 1 TRAFFIC.
3. INSTALL TEMPORARY EROSION CONTROL ITEMS IN AREAS OF DISTURBED SOIL.

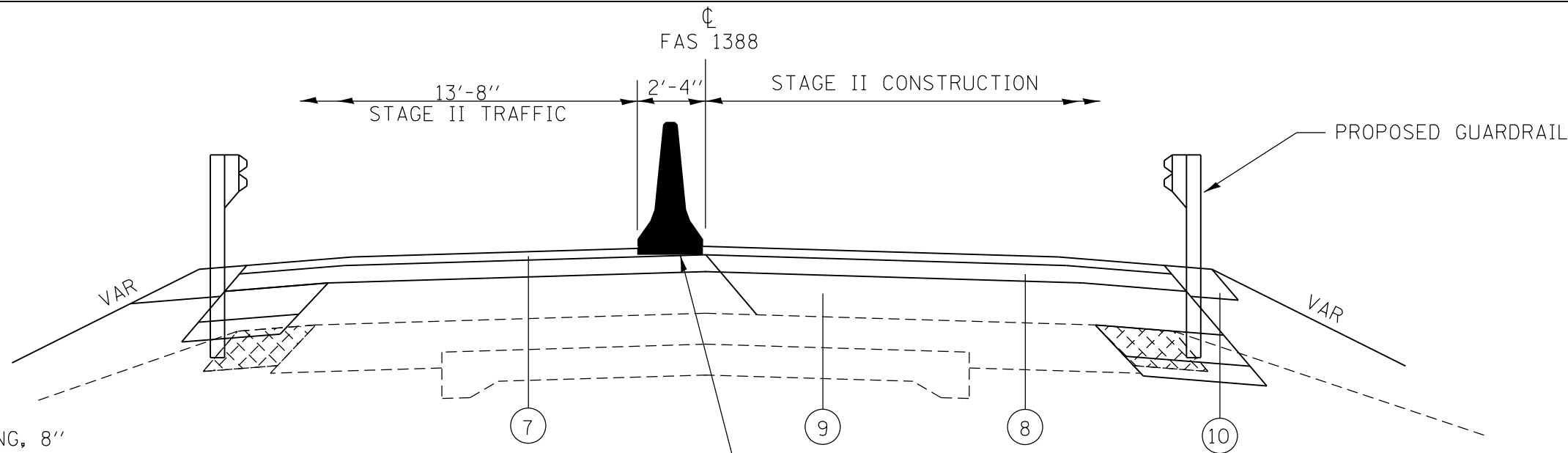
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P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet	DRAWING -	REVISED -	REVISED -					1388	(Z-1D-BR-1)BR	PEORIA	89	21
Default	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED -		CONTRACT NO. 68697							
	PLOT DATE = 3/20/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



STAGE 1
NOT TO SCALE

- ⑤ PROPOSED BASE COURSE WIDENING, 8"
- ⑧ PROPOSED POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-12.5, N50 2 1/4"
- ⑨ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (VARIABLE DEPTH)
- ⑩ PROPOSED GUARDRAIL AGGREGATE (EROSION CONTROL)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 6"

PAVED SHOULDER REMOVAL:
CONSTRUCT BASE COURSE WIDENING
PRE-STAGE 1

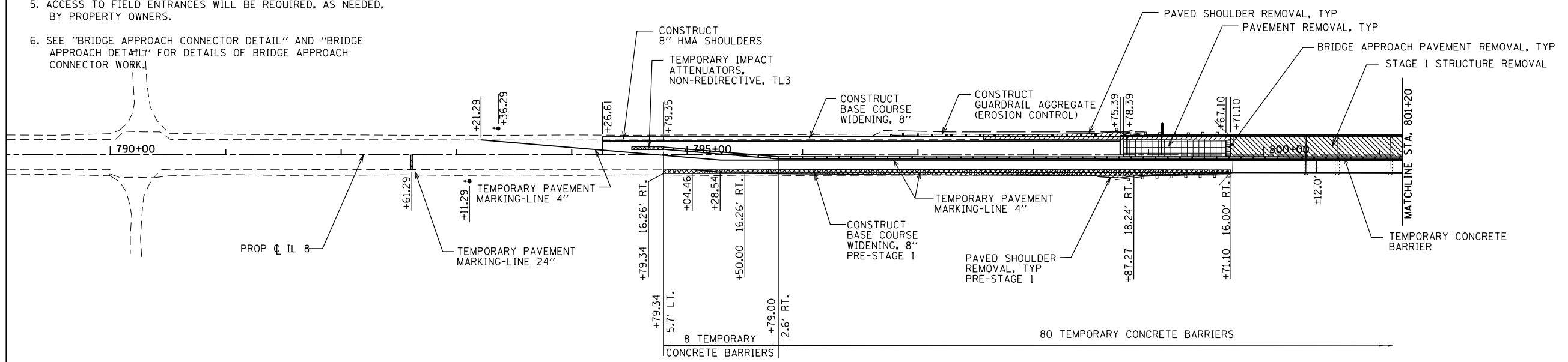


STAGE 2
NOT TO SCALE

- ⑤ PROPOSED BASE COURSE WIDENING, 8"
- ⑦ PROPOSED POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- ⑧ PROPOSED POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-12.5, N50 2 1/4"
- ⑨ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 (VARIABLE DEPTH)
- ⑩ PROPOSED GUARDRAIL AGGREGATE (EROSION CONTROL)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 6"

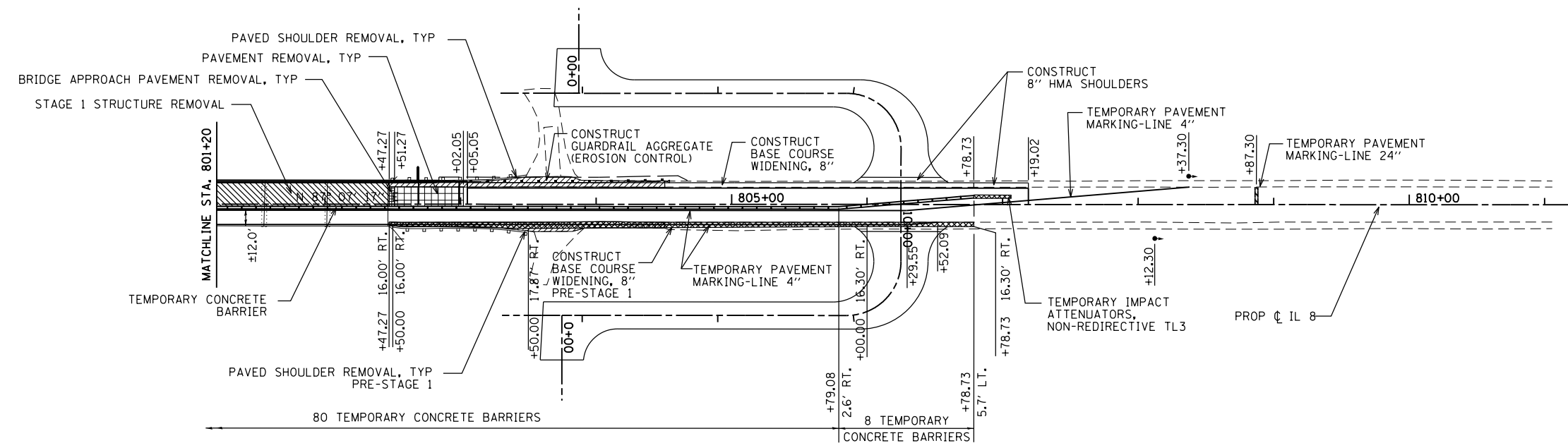
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	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -					CONTRACT NO. 68697	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

- NOTES:
1. PLACE TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN STANDARD 701321.
 2. ALL TEMPORARY BRIDGE TRAFFIC SIGNALS FOR STAGE 1 AND STAGE 2 SHALL BE CONSIDERED AS ONE EACH.
 3. BARRIER OFFSETS ARE FROM THE CENTER ON THE BARRIER.
 4. TEMPORARY PAVEMENT MARKINGS INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION 701321.
 5. ACCESS TO FIELD ENTRANCES WILL BE REQUIRED, AS NEEDED, BY PROPERTY OWNERS.
 6. SEE "BRIDGE APPROACH CONNECTOR DETAIL" AND "BRIDGE APPROACH DETAIL" FOR DETAILS OF BRIDGE APPROACH CONNECTOR WORK.



SCALE: 1" = 50'

STAGE I TRAFFIC

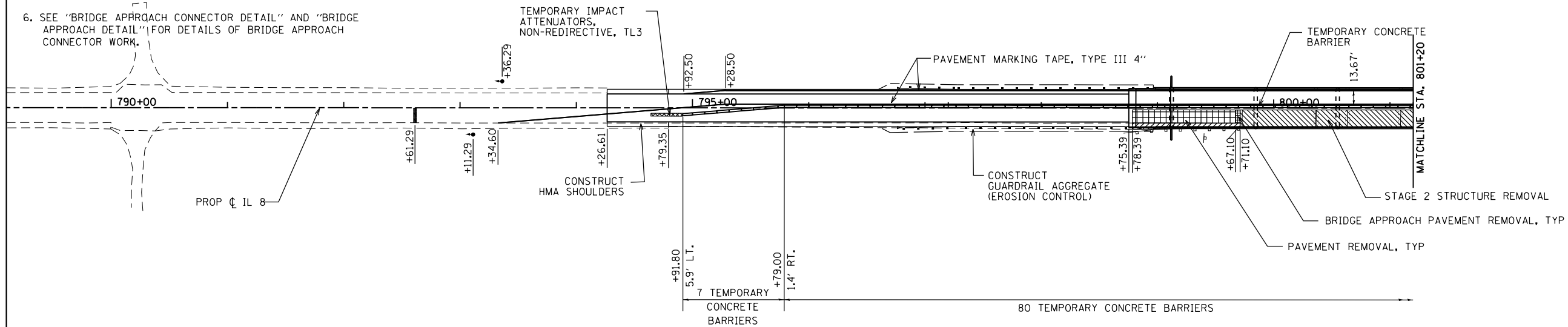


SCALE: 1" = 50'

STAGE I TRAFFIC

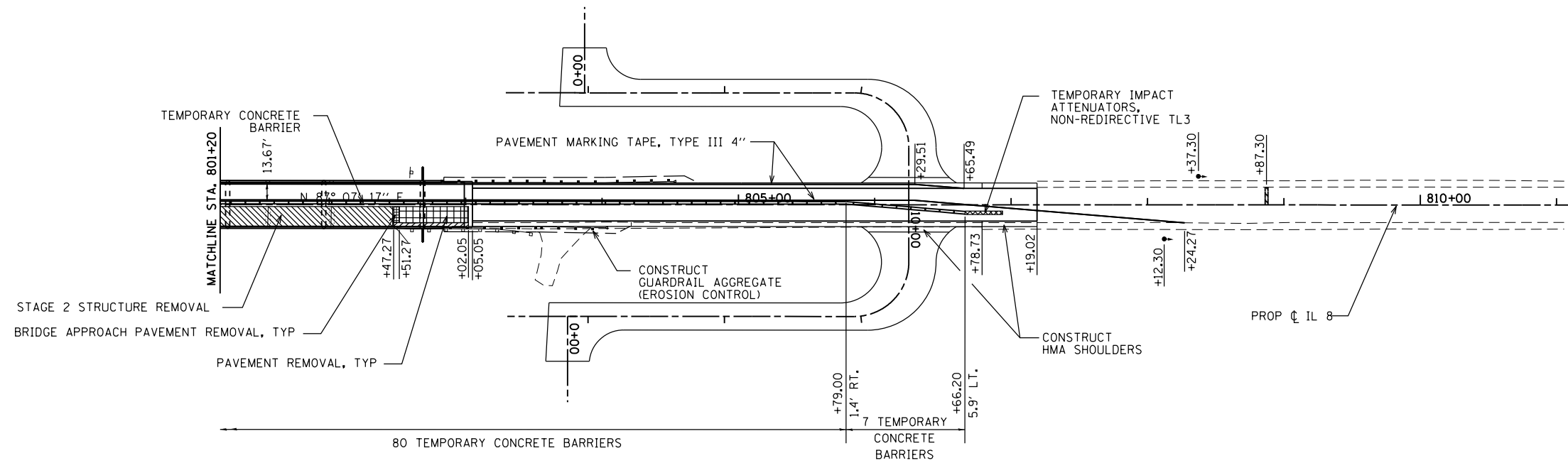
FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 CONSTRUCTION PLAN IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet DRAWING.dgn		REVISIONS -				1388	(Z-1D-BR-1)BR	PEORIA	89	23	
PLOT SCALE = 100.000' / in.	CHECKED -	REVISIONS -				CONTRACT NO. 68697					
PLOT DATE = 3/20/2014	DATE -	REVISIONS -				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

- NOTES:**
1. PLACE TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN STANDARD 701321.
 2. ALL TEMPORARY BRIDGE TRAFFIC SIGNALS FOR STAGE 1 AND STAGE 2 SHALL BE CONSIDERED AS ONE EACH.
 3. BARRIER OFFSETS ARE FROM THE CENTER ON THE BARRIER.
 4. TEMPORARY PAVEMENT MARKINGS INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION 701321.
 5. ACCESS TO FIELD ENTRANCES WILL BE REQUIRED, AS NEEDED, BY PROPERTY OWNERS.
 6. SEE "BRIDGE APPROACH CONNECTOR DETAIL" AND "BRIDGE APPROACH DETAIL" FOR DETAILS OF BRIDGE APPROACH CONNECTOR WORK.



SCALE: 1" = 50'

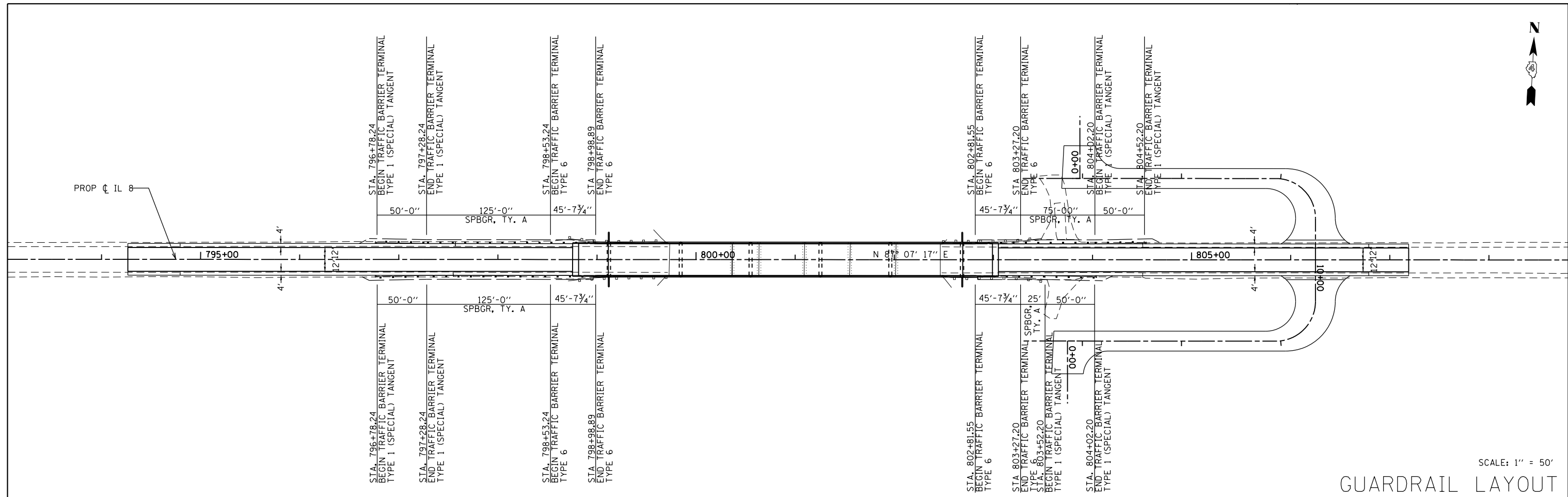
STAGE II TRAFFIC



SCALE: 1" = 50'

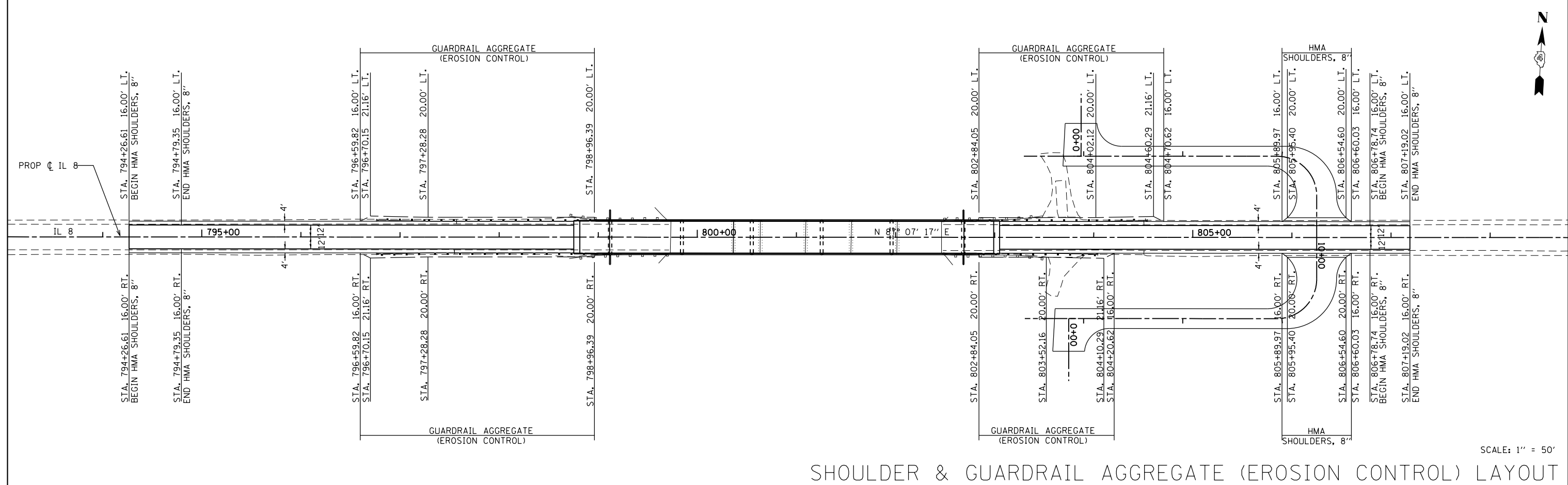
STAGE II TRAFFIC

FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 CONSTRUCTION PLAN IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet.dwg		REVISIONS -	REVISIONS -			1388	(Z-1D-BR-1)BR	PEORIA	89	24	
PLOT SCALE = 100.000' / in.	CHECKED -	REVISIONS -	REVISIONS -			CONTRACT NO. 68697					
PLOT DATE = 3/20/2014	DATE -	REVISIONS -	REVISIONS -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



SCALE: 1" = 50'

GUARDRAIL LAYOUT



SCALE: 1" = 50'

SHOULDER & GUARDRAIL AGGREGATE (EROSION CONTROL) LAYOUT







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		DATE -	REVISED -

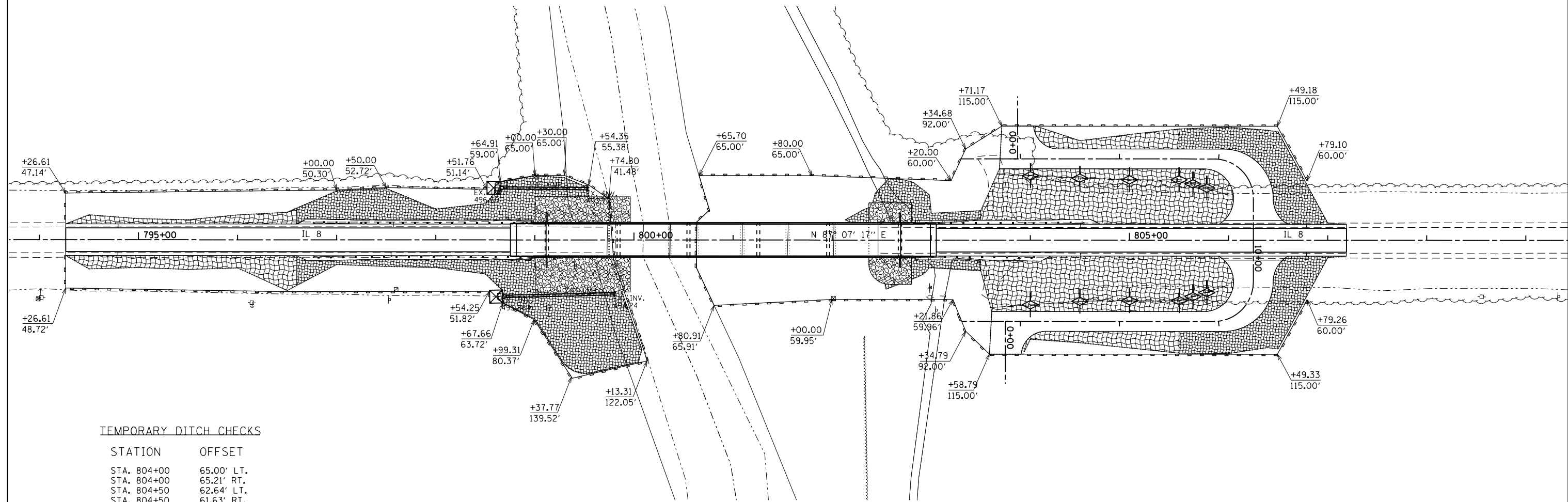
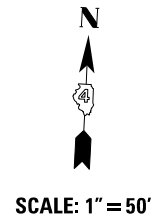
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHOULDER & GUARDRAIL PLAN
IL 8 OVER KICKAPOO CREEK

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 794+00.00 TO STA. 808+00.00

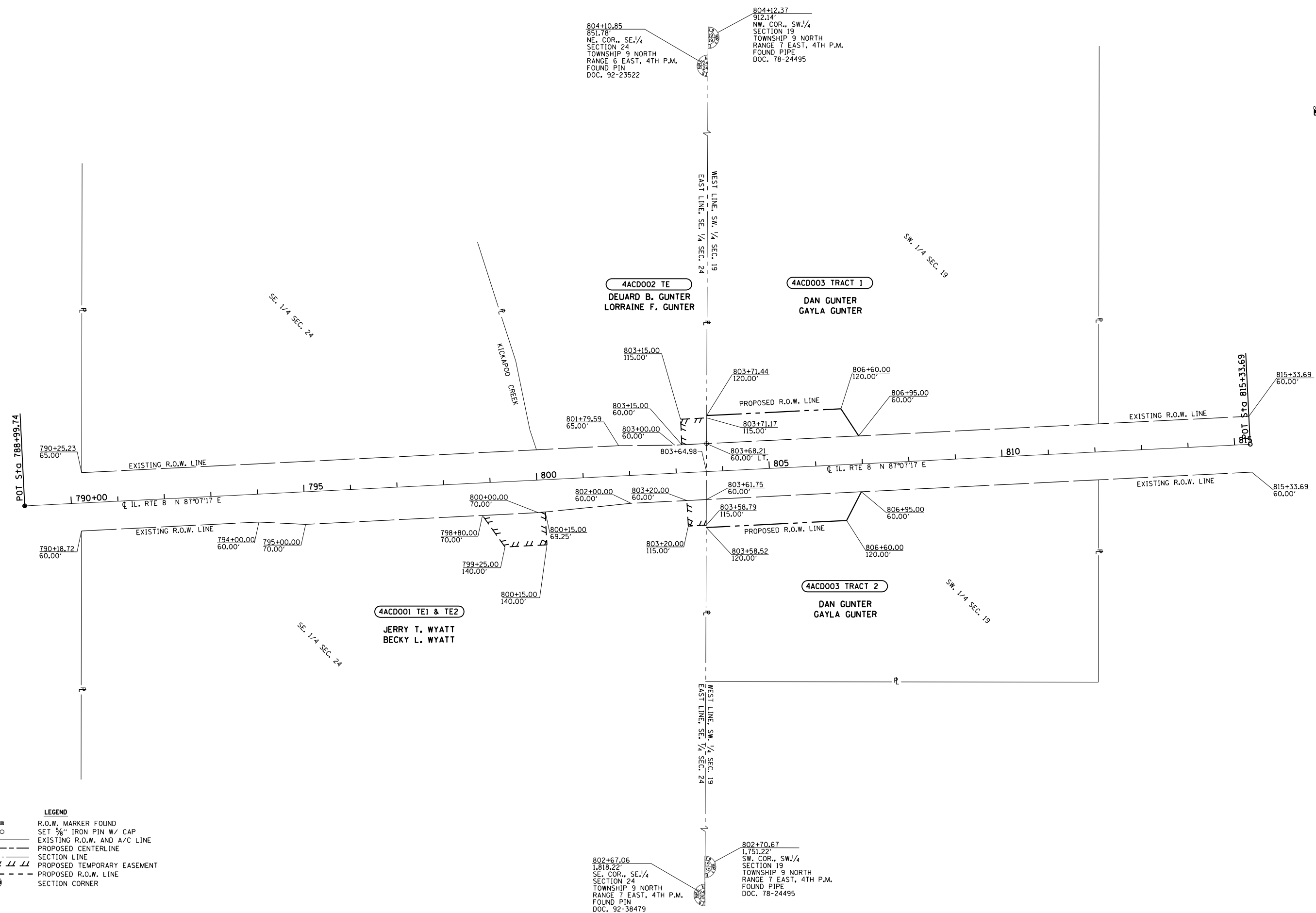
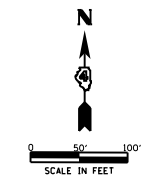
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	25
CONTRACT NO. 68697				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  HEAVY DUTY EROSION CONTROL BLANKET
-  RIP-RAP SLOPE PROTECTION



TEMPORARY DITCH CHECKS

STATION	OFFSET
STA. 804+00	65.00' LT.
STA. 804+00	65.21' RT.
STA. 804+50	62.64' LT.
STA. 804+50	61.63' RT.
STA. 805+00	61.00' LT.
STA. 805+00	61.00' RT.
STA. 805+50	61.00' LT.
STA. 805+50	61.00' RT.
STA. 805+64	56.65' LT.
STA. 805+64	56.59' RT.
STA. 805+78	52.31' LT.
STA. 805+78	52.17' RT.



- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - SET 5/8" IRON PIN W/ CAP
 - EXISTING R.O.W. AND A/C LINE
 - - - - PROPOSED CENTERLINE
 - SECTION LINE
 - PROPOSED TEMPORARY EASEMENT
 - PROPOSED R.O.W. LINE
 - ⊠ SECTION CORNER

804+10.85
851.78'
NE. COR., SE. 1/4
SECTION 24
TOWNSHIP 9 NORTH
RANGE 6 EAST, 4TH P.M.
FOUND PIPE
DOC. 92-23522

804+12.37
912.14'
NW. COR., SW. 1/4
SECTION 19
TOWNSHIP 9 NORTH
RANGE 7 EAST, 4TH P.M.
FOUND PIPE
DOC. 78-24495

4ACD002 TE
DEUARD B. GUNTER
LORRAINE F. GUNTER

4ACD003 TRACT 1
DAN GUNTER
GAYLA GUNTER

4ACD001 TE1 & TE2
JERRY T. WYATT
BECKY L. WYATT

4ACD003 TRACT 2
DAN GUNTER
GAYLA GUNTER

802+67.06
1,818.22'
SE. COR., SE. 1/4
SECTION 24
TOWNSHIP 9 NORTH
RANGE 7 EAST, 4TH P.M.
FOUND PIPE
DOC. 92-38479

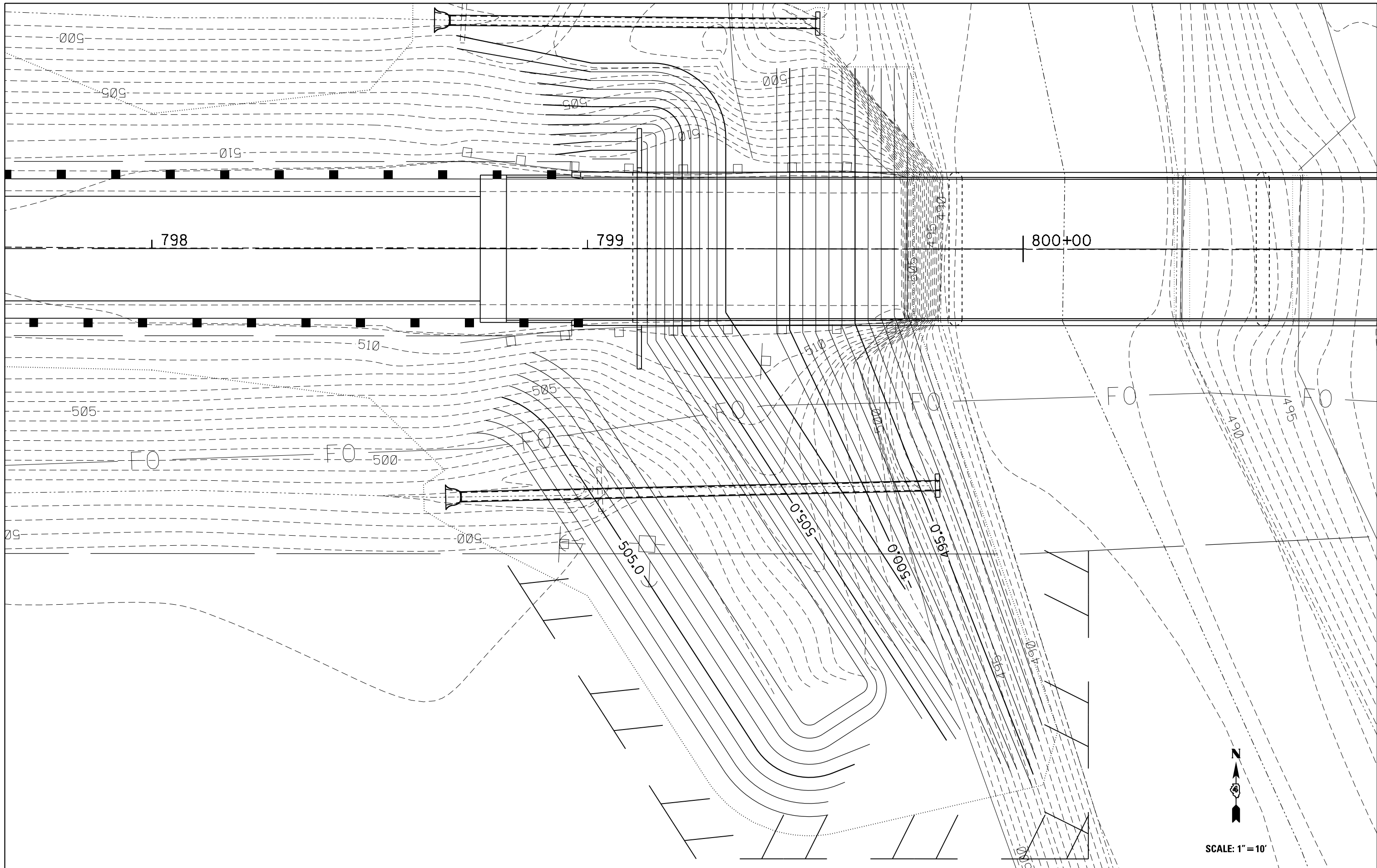
802+70.67
1,751.22'
SW. COR., SW. 1/4
SECTION 19
TOWNSHIP 9 NORTH
RANGE 7 EAST, 4TH P.M.
FOUND PIPE
DOC. 78-24495

FILE NAME	USER NAME = bemery	DESIGNED -	REVISED -
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-1.dwg		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS	
PROJECT	JOB NO. R-94-002-12
SCALE: 1" = 100'	SHEET NO. 1 OF 1 SHEETS
	STA. 788+99.74 TO STA. 815+33.69

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	27
CONTRACT NO. 68697				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



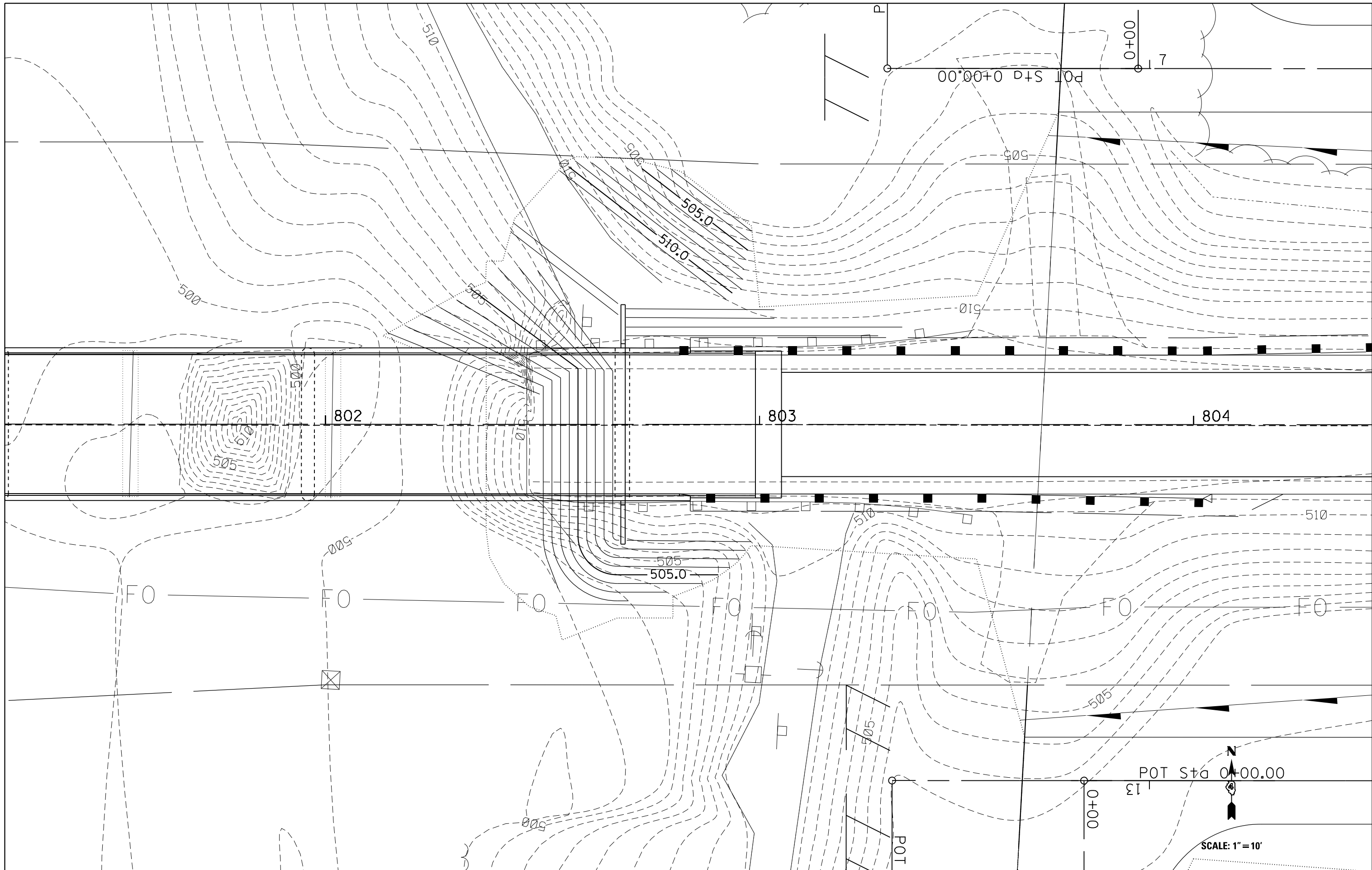
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	PLOT SCALE = 20.000' / in.	DATE -	REVISED -
	PLOT DATE = 3/20/2014		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN
IL 8 OVER KICKAPOO CREEK**

SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. 798+00.00 TO STA. 800+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	28
CONTRACT NO. 68697				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet DRAINING.dgn		REVISED -	REVISED -
PLOT SCALE = 20.000' / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN
IL 8 OVER KICKAPOO CREEK**

SCALE: 1" = 10' SHEET NO. 2 OF 2 SHEETS STA. 801+50.00 TO STA. 804+00.00

F.A.S. RTE. 1388	SECTION (Z-1D-BR-1)BR	COUNTY PEORIA	TOTAL SHEETS 89	SHEET NO. 29
CONTRACT NO. 68697				
ILLINOIS FED. AID PROJECT				

FLAP GATE (SPECIAL) 24"

TYPICAL DIMENSIONS IN INCHES

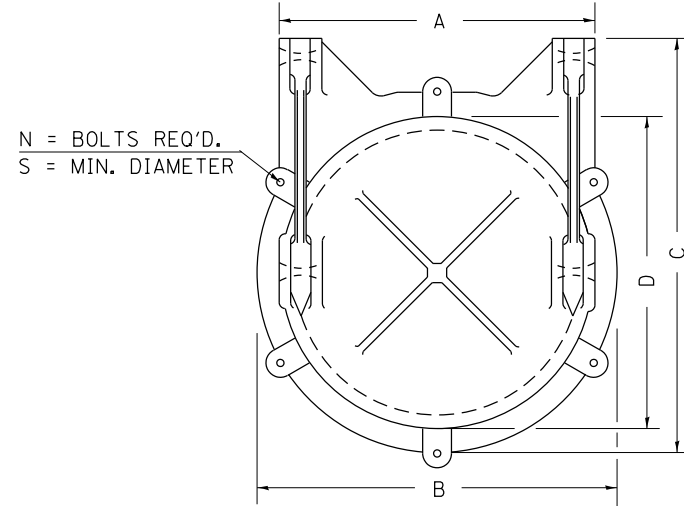
PIPE DIAMETER	A	B	C	D	N	S
12	13 1/4	15 7/8	18	13 1/4	4	5/8
15	16 1/4	19	21	16 1/4	4	5/8
18	19 1/4	22 1/8	24 1/4	19 1/4	4	3/4
21	22 1/4	25 1/8	27 1/4	22 1/4	4	3/4
24	25 1/4	28 1/4	30 1/4	25 1/4	6	3/4
27	28 1/4	31 1/4	33 1/4	28 1/4	6	7/8
30	31 1/4	34 1/4	36 1/2	31 1/4	6	7/8
36	37 1/4	41 1/2	43 1/2	37 1/2	6	7/8
42	43 1/2	47 1/2	49 1/2	43 1/2	6	7/8
48	49 1/2	54	56 1/2	49 1/2	6	1

GENERAL NOTES

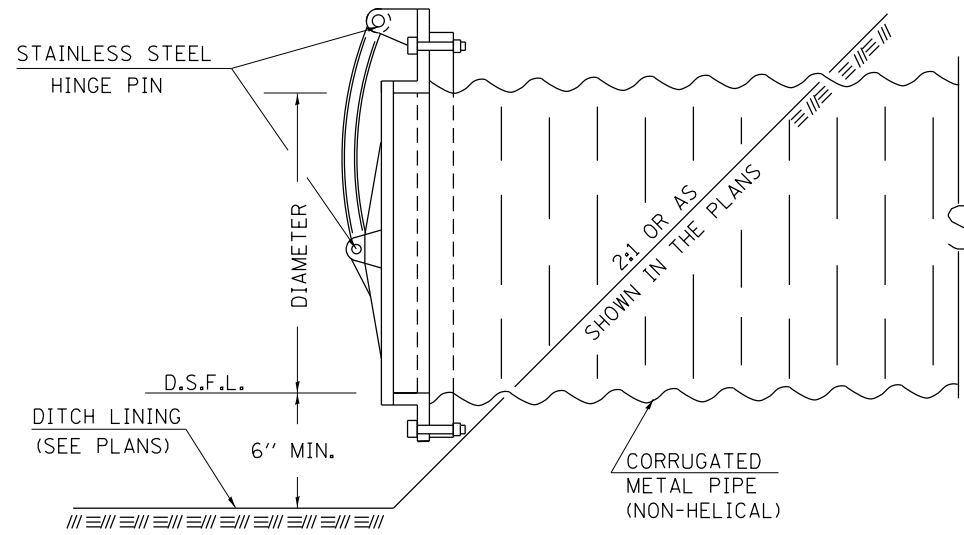
THE FLAP GATE (SPECIAL) SHALL BE COMMERCIALY PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL, OR OTHER SUITABLE MATERIAL. THE DESIGN MAY DIFFER FROM THE DRAWING IF THE GATE WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE ANTICIPATED WATER PRESSURE. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF FLAP GATE (SPECIAL) REFERS TO THE DIAMETER OF THE PIPE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **FLAP GATE (SPECIAL) XX"** OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION.



FRONT FACE

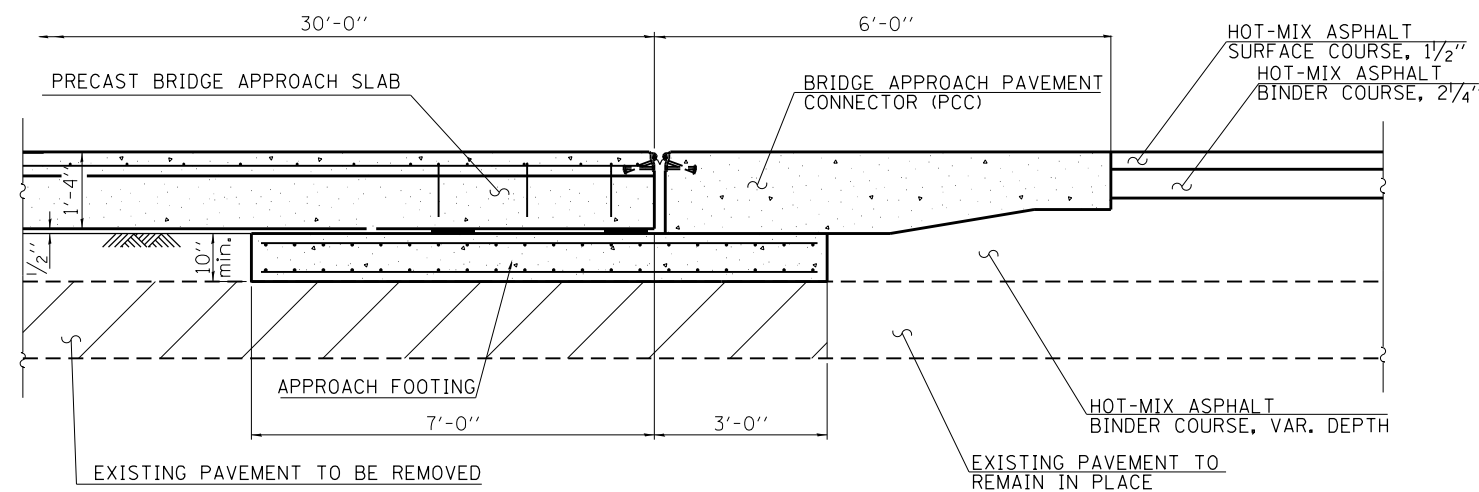


SECTION

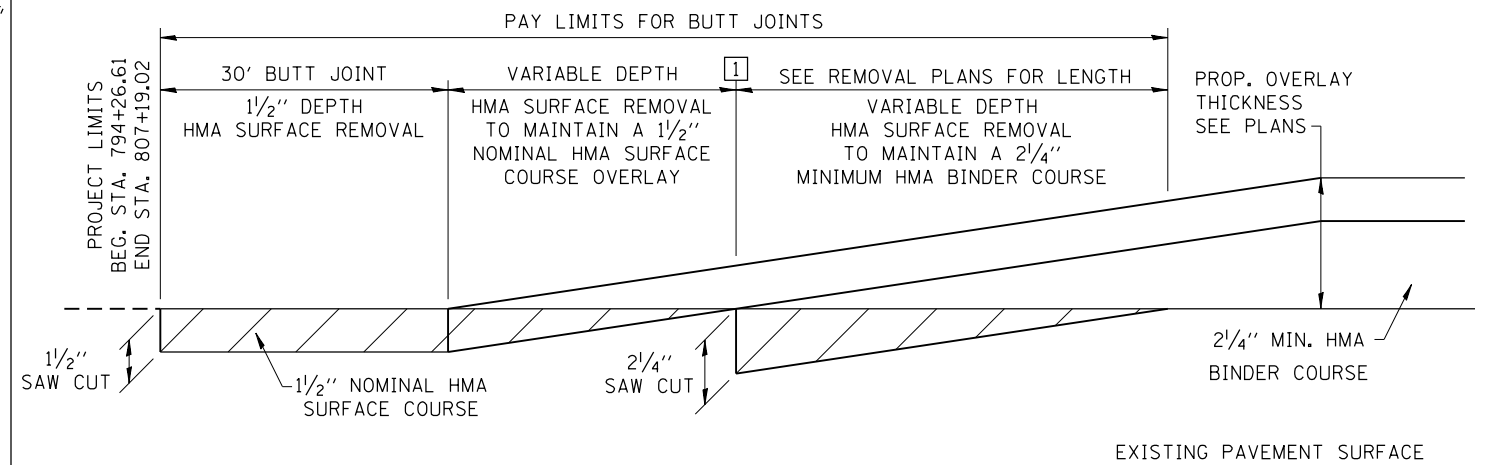
GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- 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.
- 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.

1 REPRESENTS STATION WHERE THE PROPOSED SURFACE ELEVATION MINUS THE EXISTING SURFACE ELEVATION EQUALS 0.125'.



BRIDGE APPROACH PAVEMENT CONNECTOR DETAIL



BUTT JOINT AND MILLING DETAIL
THIS DETAIL APPLIES TO THE BEGIN AND END OF PROJECT

FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\0468697-sheet DRAWING.dgn		REVISOR -	REVISOR -
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 3/20/2014	DATE -	REVISOR -	REVISOR -

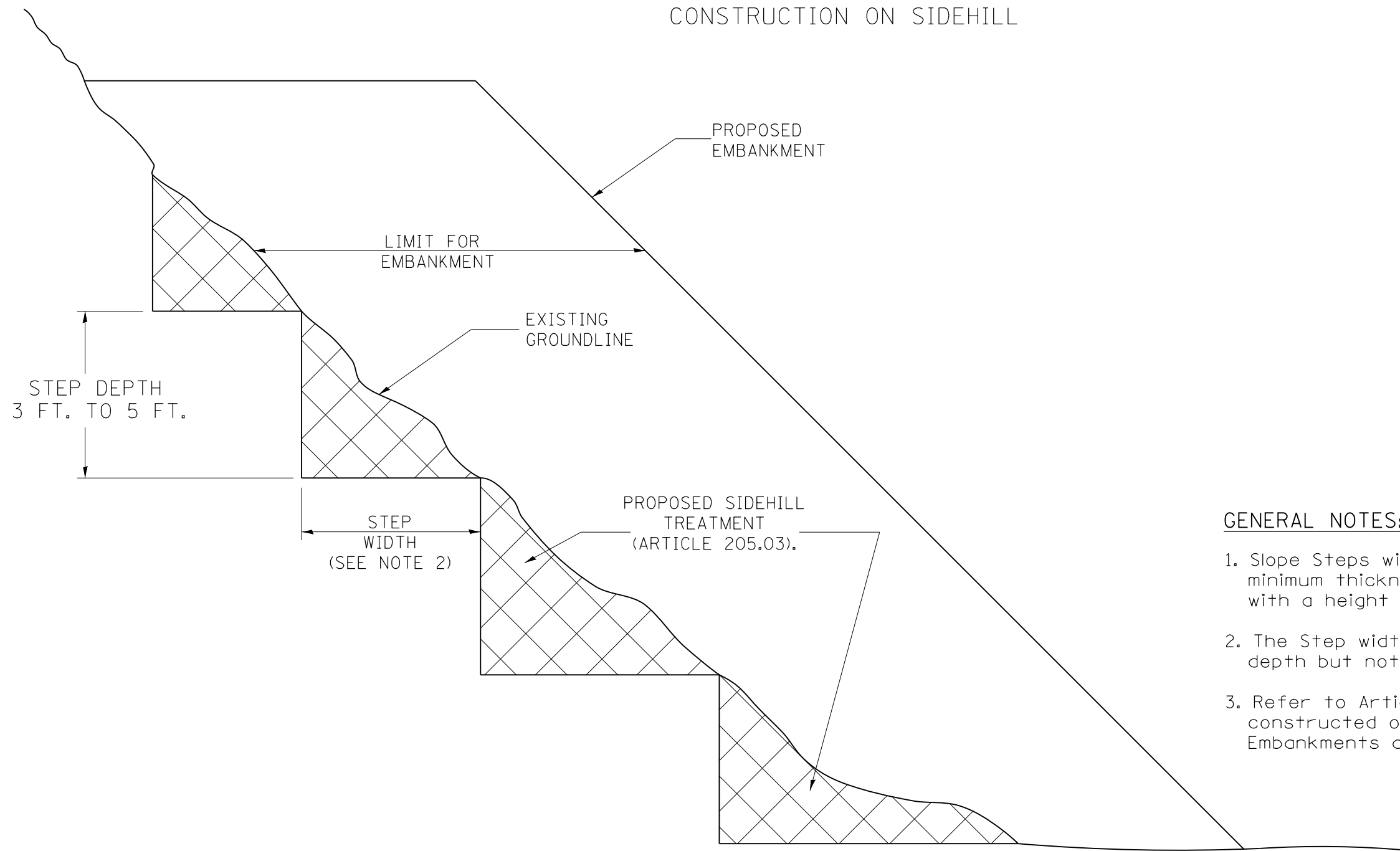
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS	
IL 8 OVER KICKAPOO CREEK	
NOT TO SCALE	SHEET NO. 1 OF 13 SHEETS
STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	30
CONTRACT NO. 68697				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



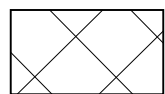
GENERAL NOTES:

1. Slope Steps will be required for all 12 (300) minimum thickness "silver fills" and on all fills with a height of 10' (3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:



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

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

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

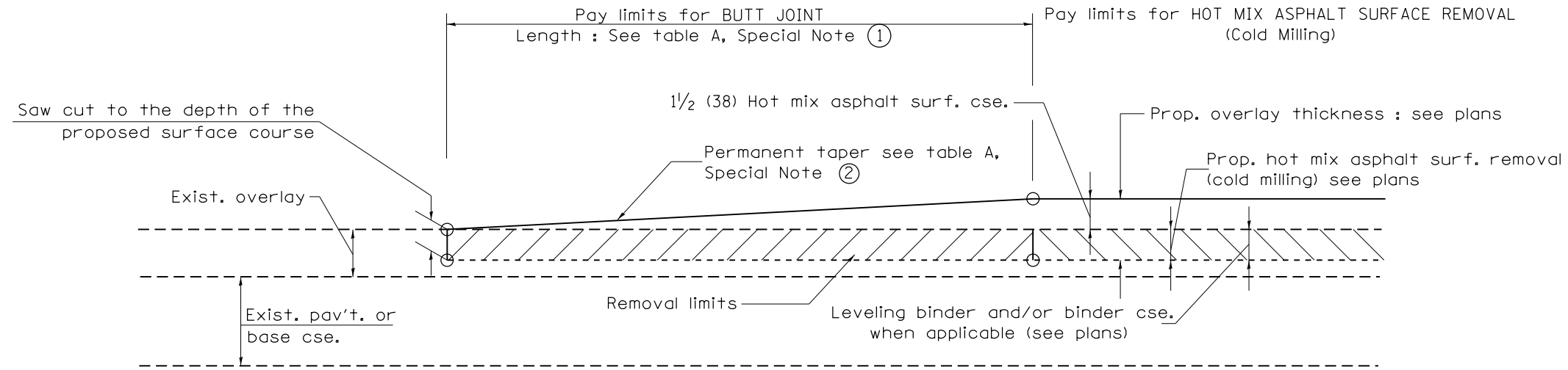
NOT TO SCALE

**SLOPE STEPS DETAIL
IL 8 OVER KICKAPOO CREEK**

SHEET NO. 2 OF 13 SHEETS

SHT. 1 OF 1
CADD STD. 205001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	31
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68697	



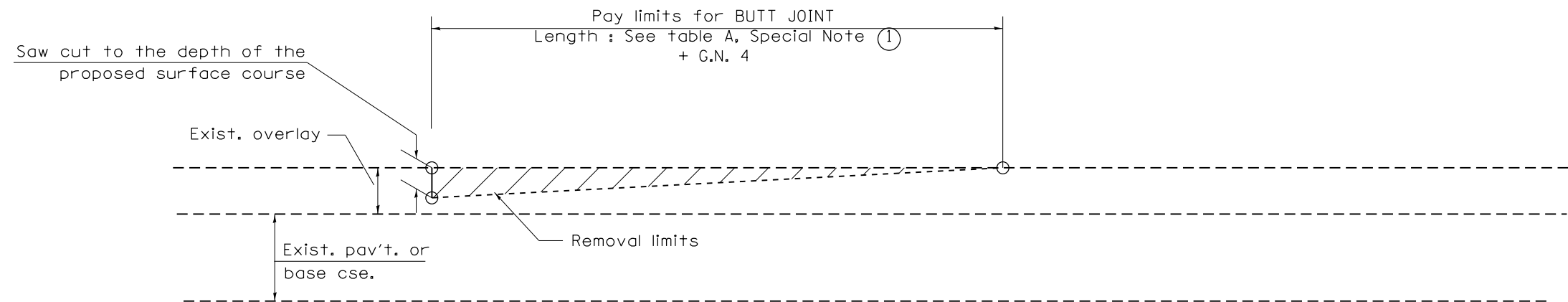
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

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

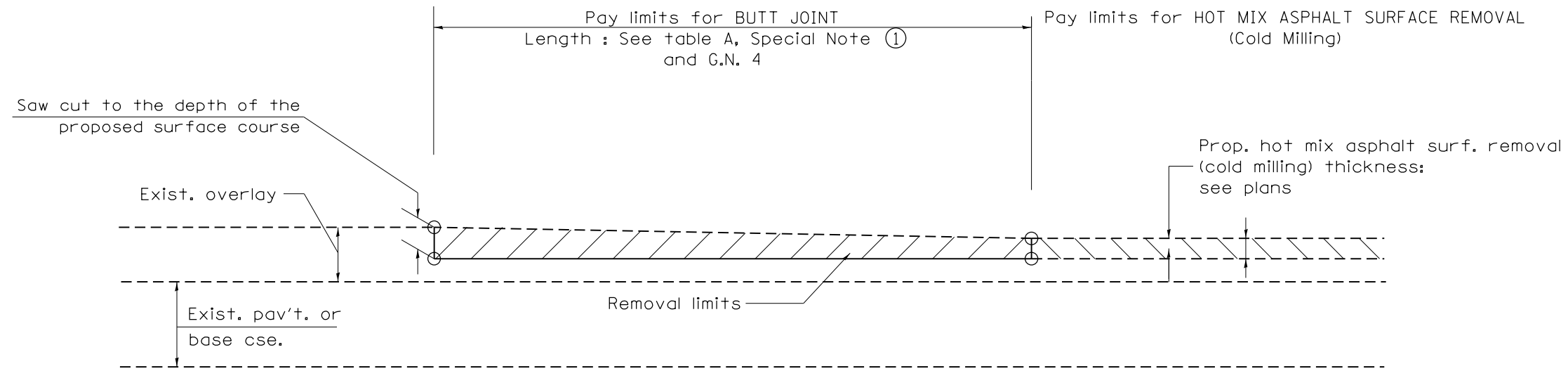
GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.

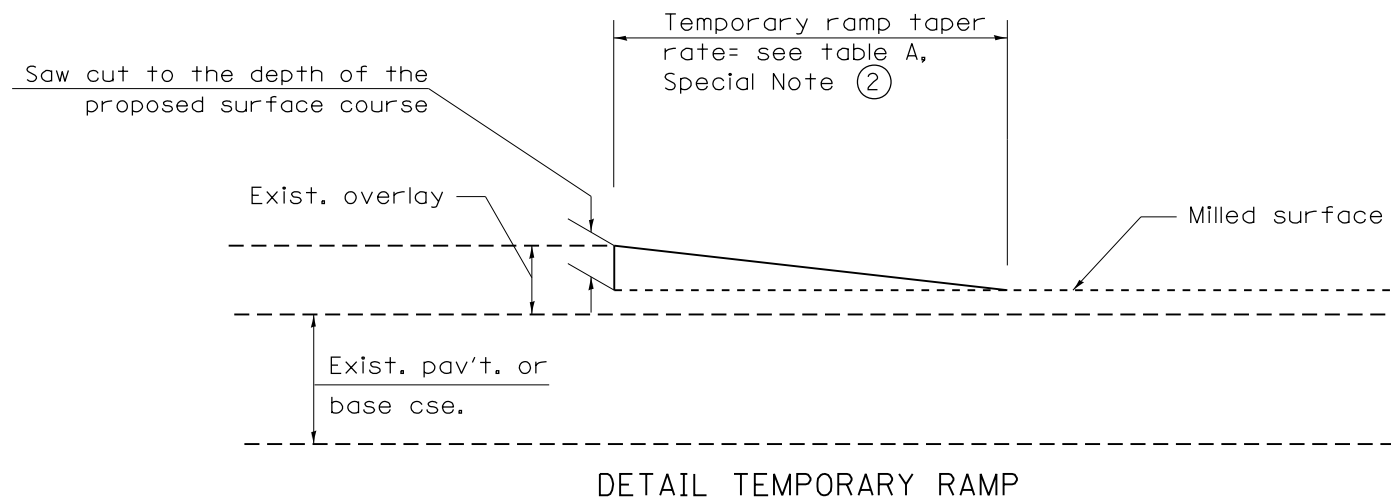


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

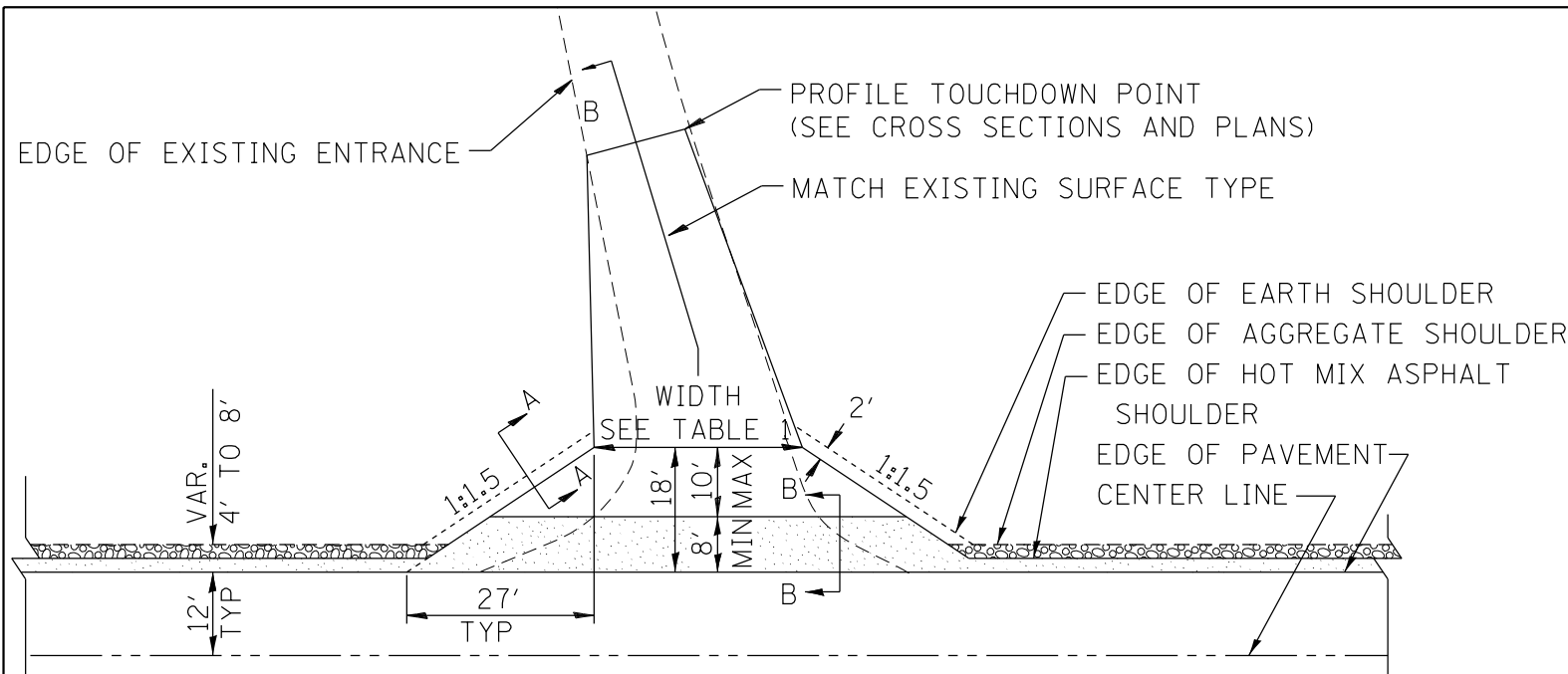


CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



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

				STATE OF ILLINOIS	BUTT JOINTS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				DEPARTMENT OF TRANSPORTATION	IL 8 OVER KICKAPOO CREEK	1388	(Z-ID-BR-1)BR	PEORIA	89	33
				NOT TO SCALE	SHEET NO. 4 OF 13 SHEETS	SHT. 2 OF 3	CADD STD. 406101-D4	CONTRACT NO. 68697		
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



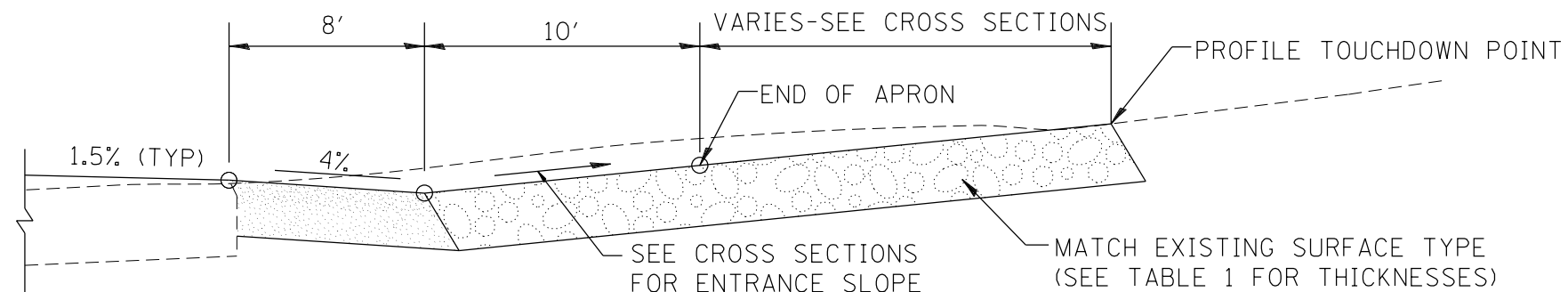
 HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

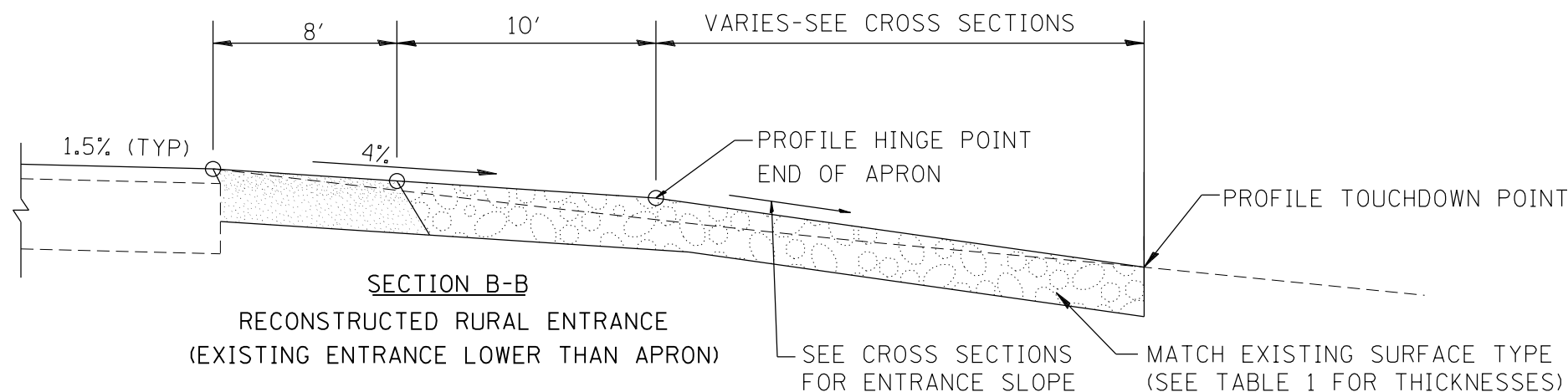
COMMERCIAL / FARM-RELATED ENTRANCE

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

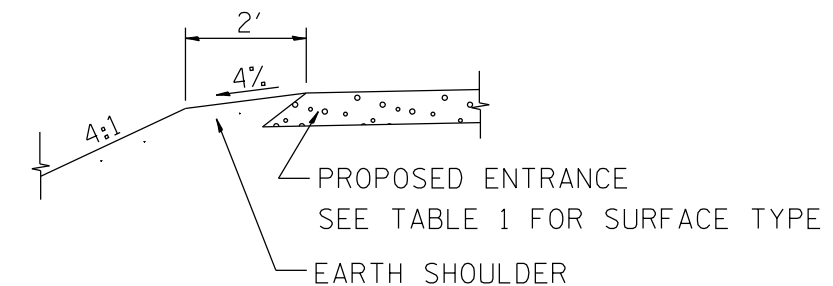
SURFACE TYPE	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	14'(4.3m) Min.	24'(7.2m) Max.
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		—	8"	
AGGREGATE SURFACE COURSE	6"		8"	8"	
PCC DRIVEWAY PAVEMENT	6"		—	7"	



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.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

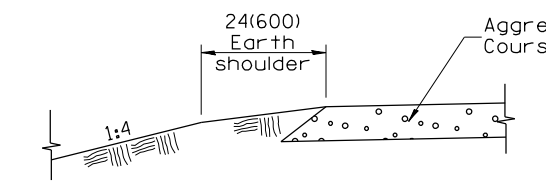
**RURAL ENTRANCES FOR "3R" PROJECTS
 IL 8 OVER KICKAPOO CREEK**

NOT TO SCALE

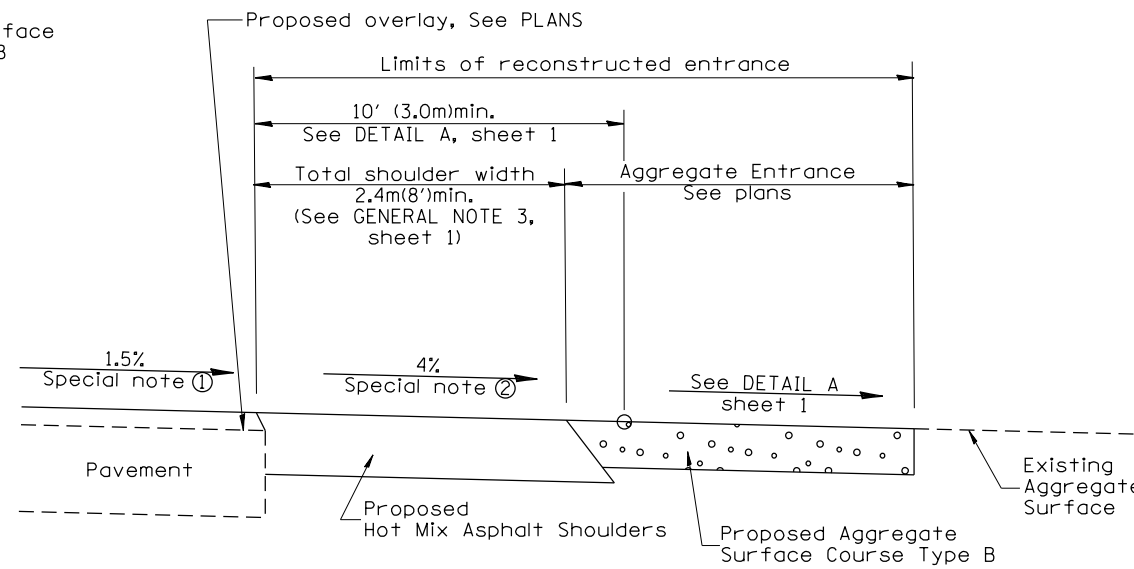
SHEET NO. 6 OF 13 SHEETS

SHT. 1 OF 2
 CADD STD. 406301-D4

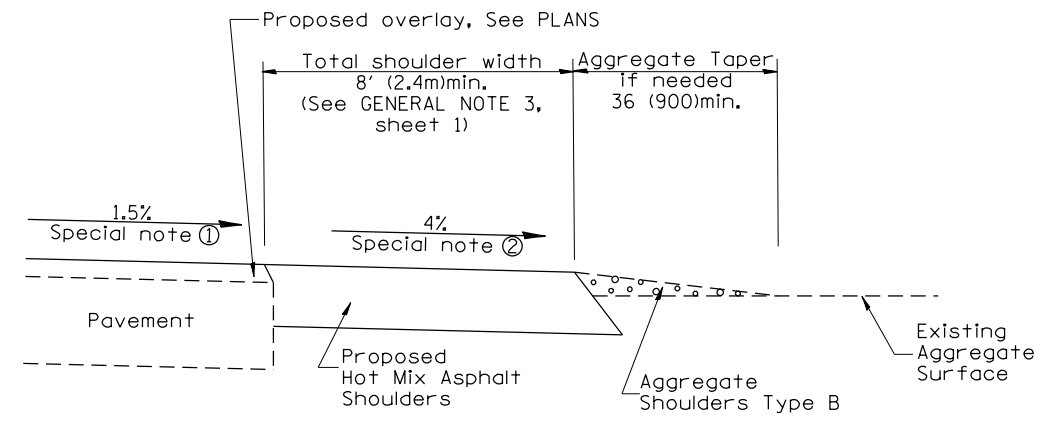
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 68697	



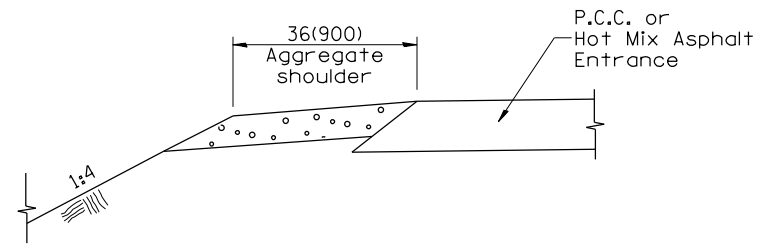
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



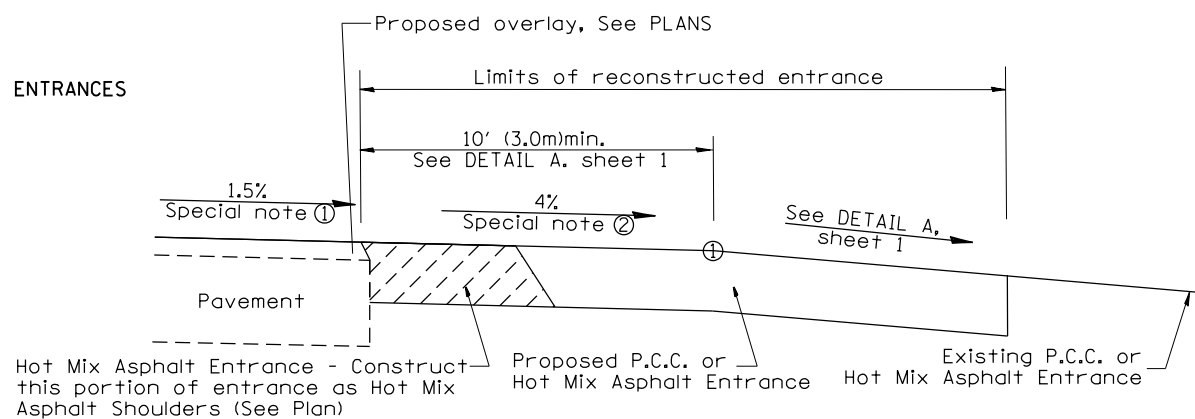
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



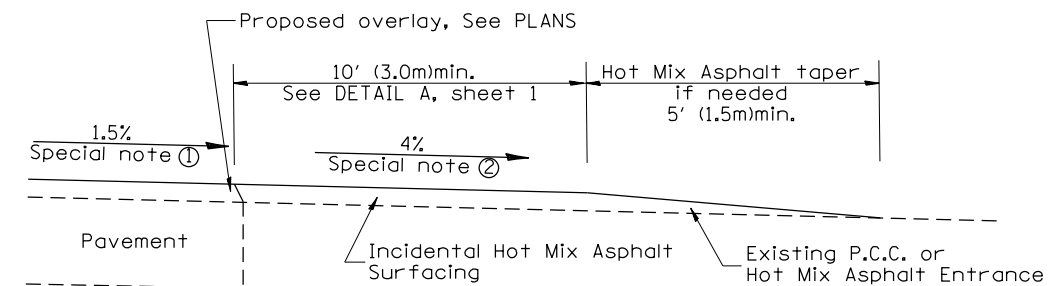
SECTION B-B
EXISTING AGGREGATE ENTRANCE



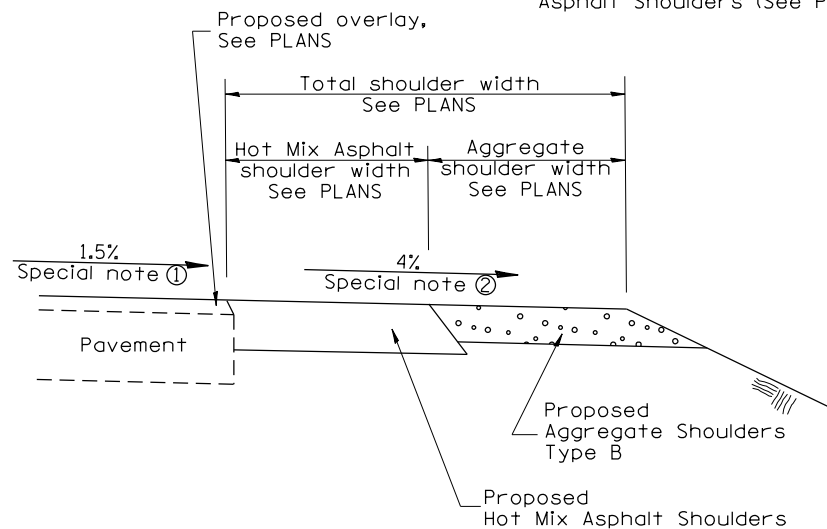
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



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



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

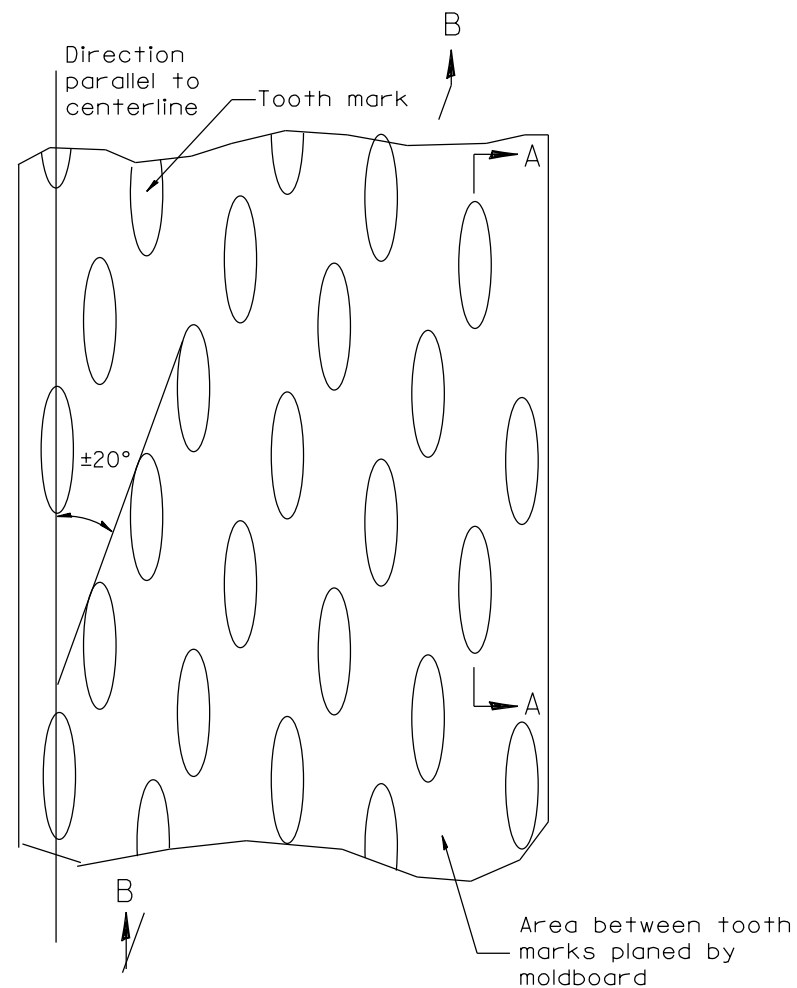


SECTION E-E
MAINLINE SHOULDER TREATMENT

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.

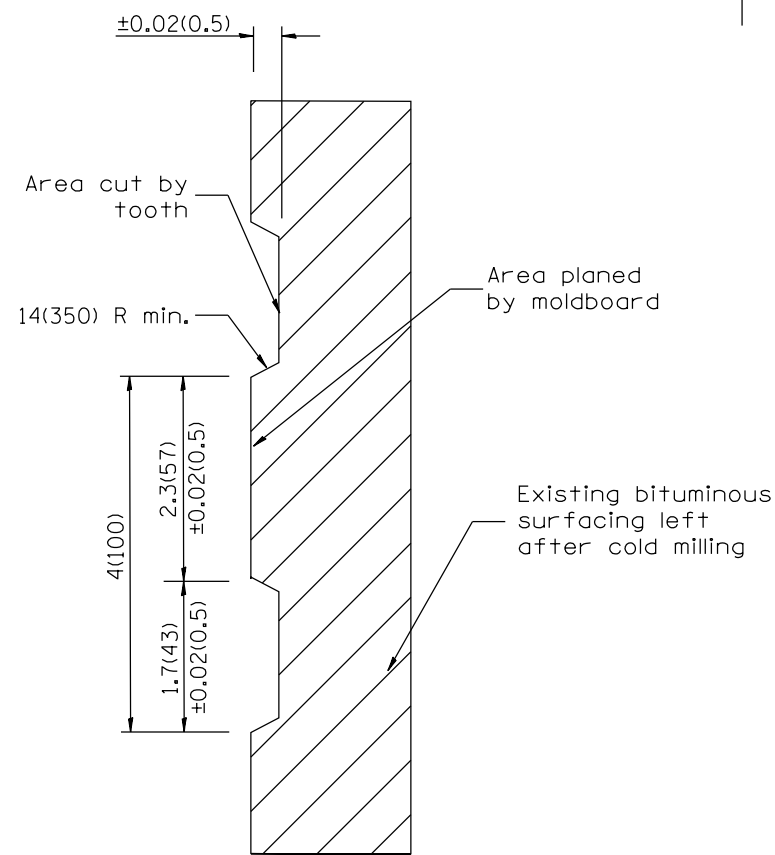
All dimensions are in inches (millimeters) unless otherwise noted.



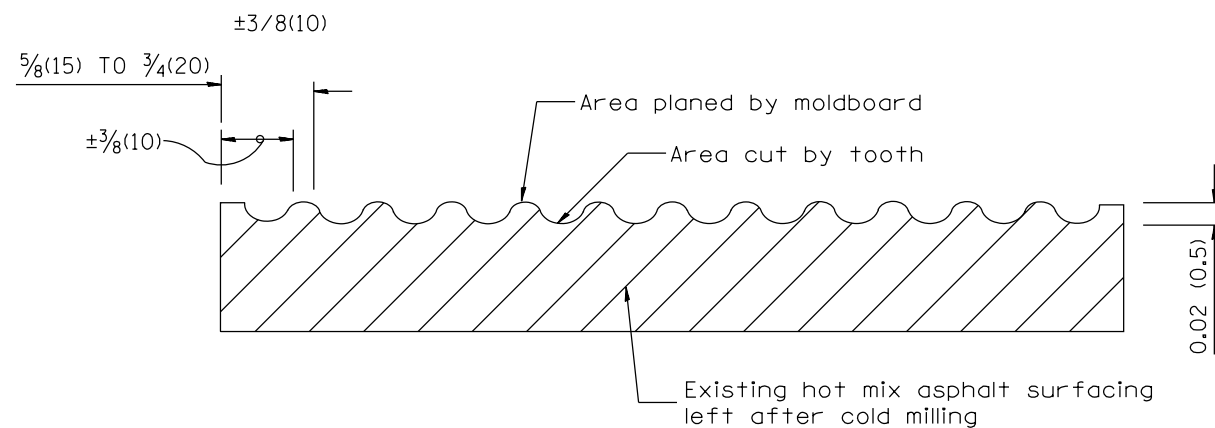
PLAN

General notes:

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



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

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

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
IL 8 OVER KICKAPOO CREEK

NOT TO SCALE

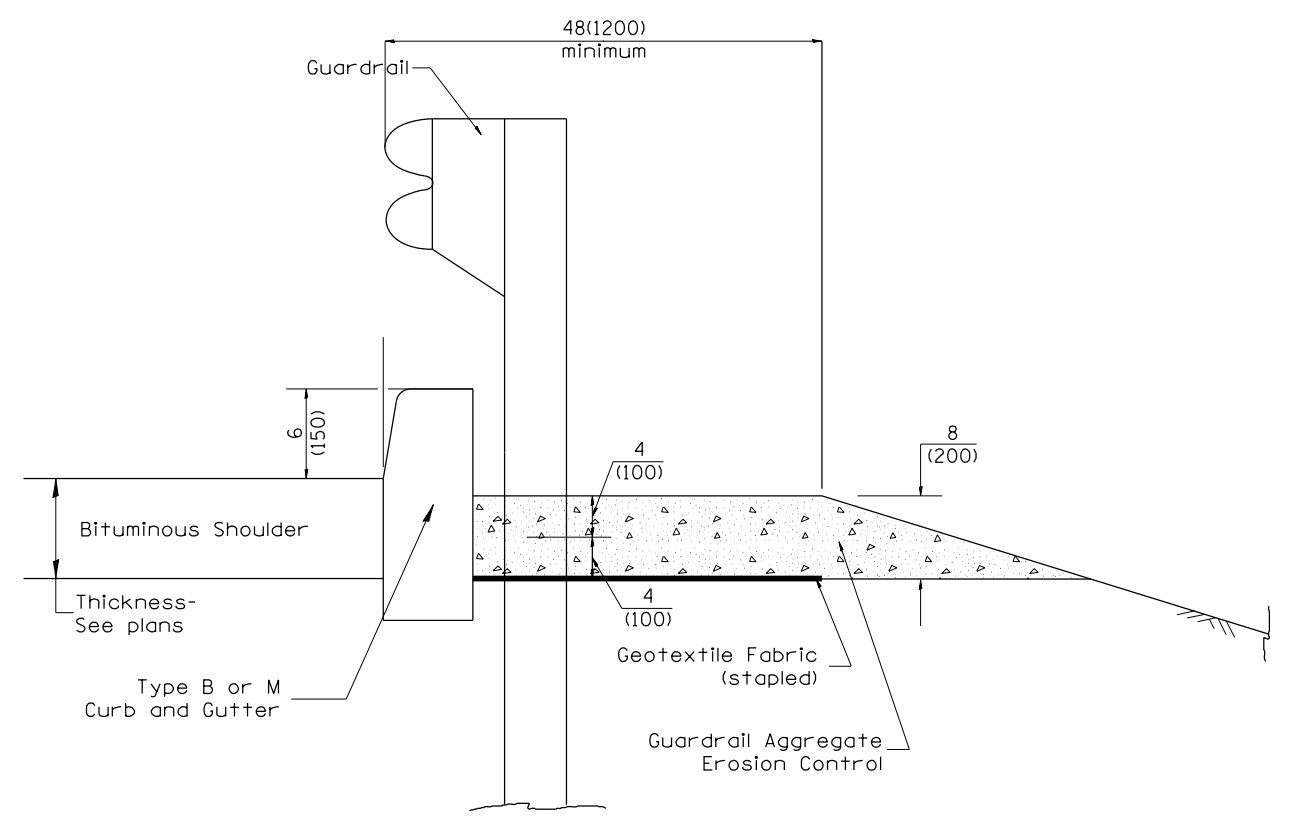
SHEET NO. 8 OF 13 SHEETS

SHT. 1 OF 1
CADD STD. 440001-D4

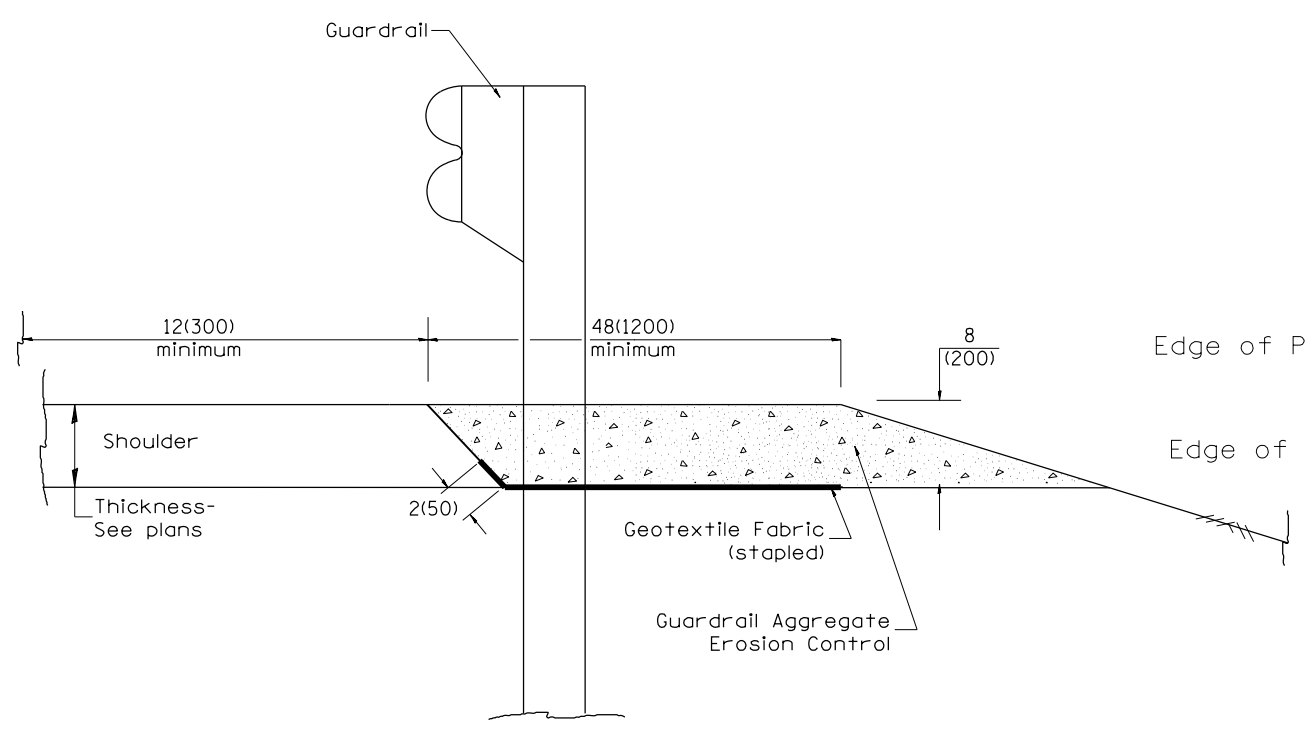
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	37
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 68697

DESIGNER NOTES:
 1. Consider using a "B" curb pay item at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1%. (Include District Special Provision)
 3. Include State Standards 609001, 609006 or 610001 if applicable.
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



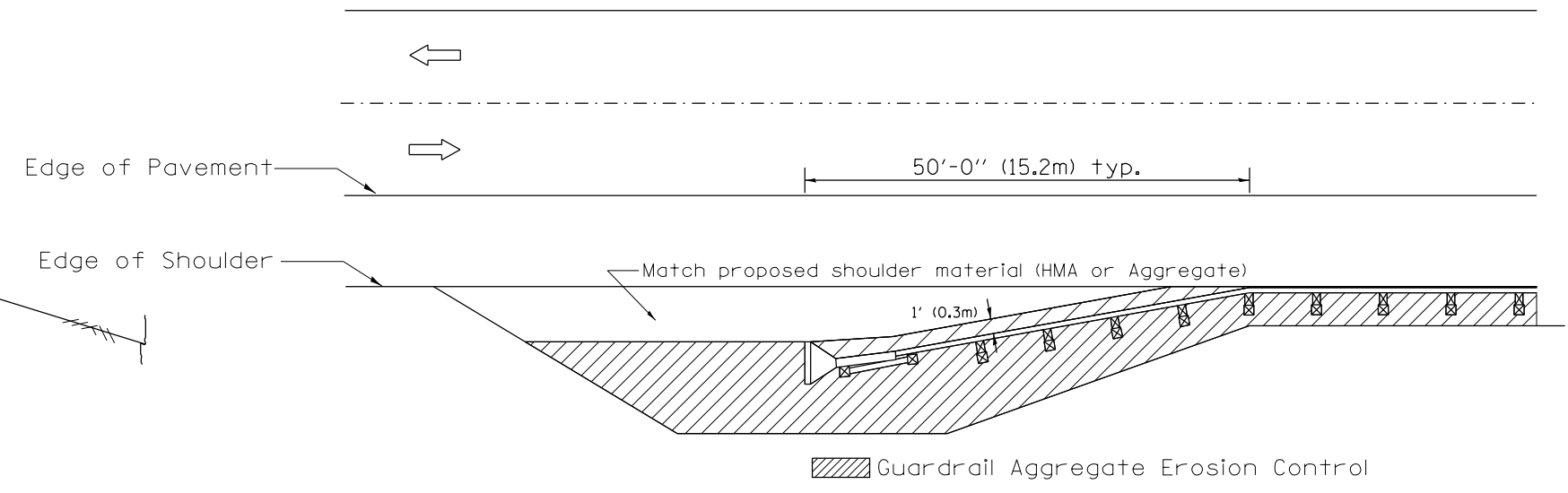
TYPICAL SECTION WITH EROSION CONTROL CURB



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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

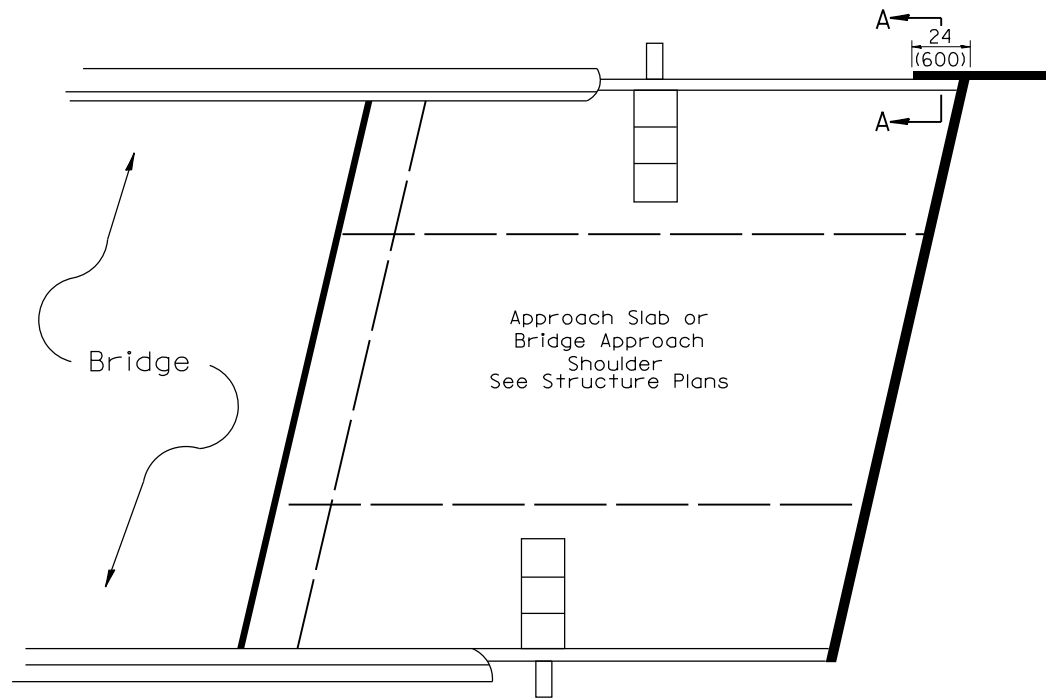
**GUARDRAIL EROSION CONTROL TREATMENTS
 IL 8 OVER KICKAPOO CREEK**

NOT TO SCALE

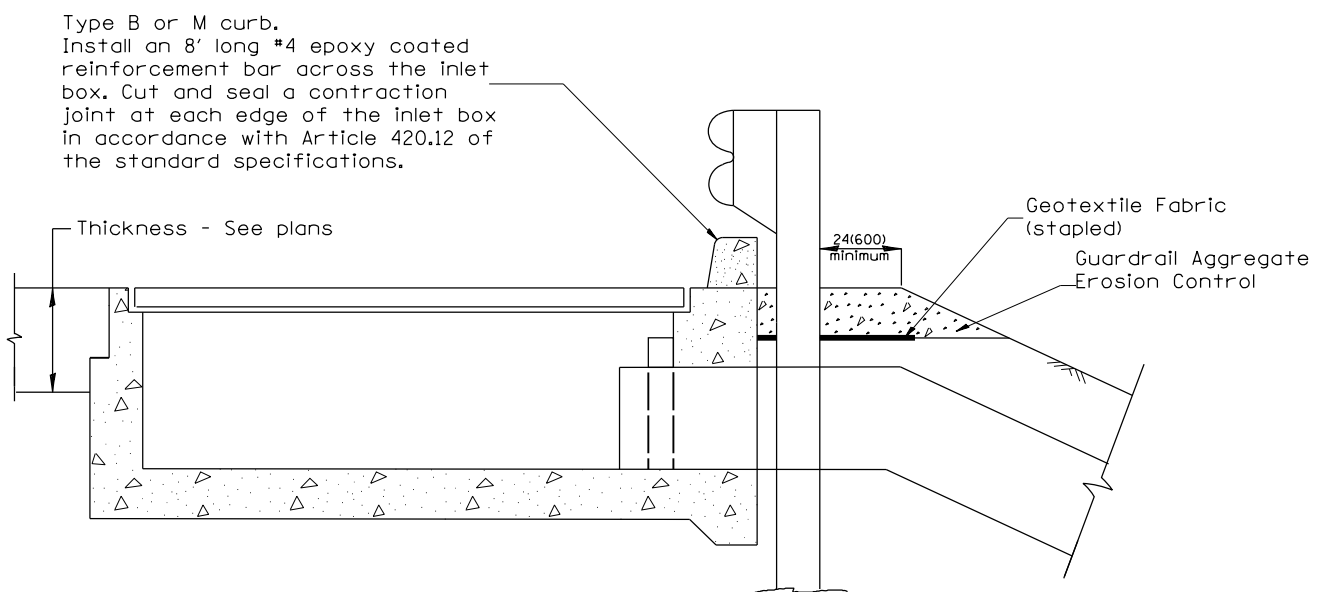
SHEET NO. 9 OF 13 SHEETS

SHT. 1 OF 2
 CADD STD. 630101-D4

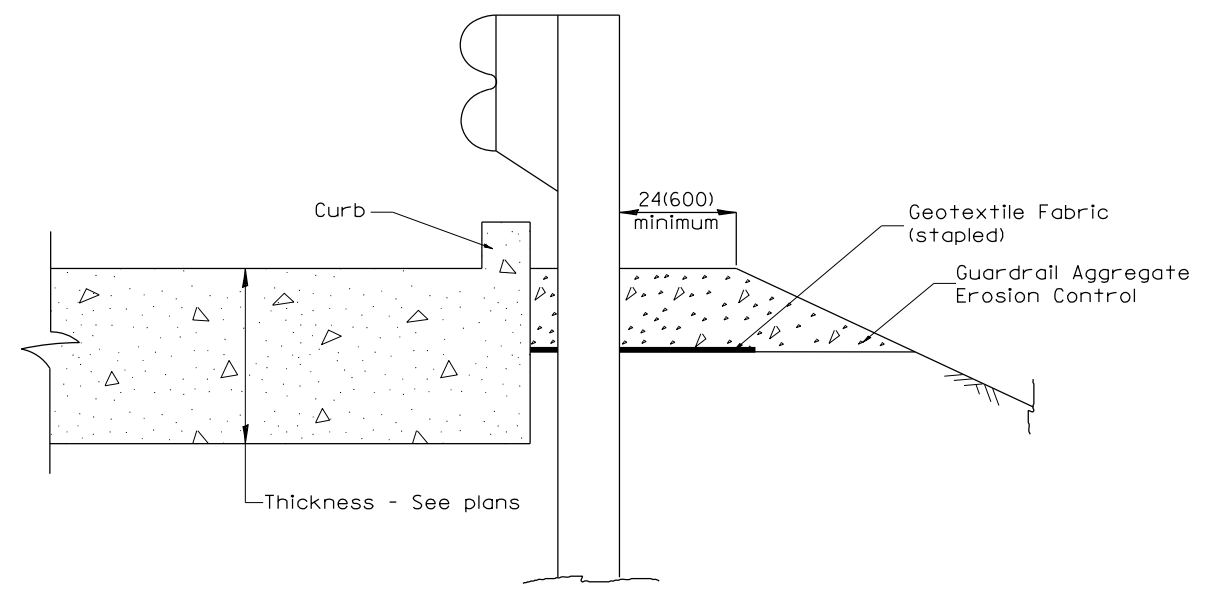
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-ID-BR-1)BR	PEORIA	89	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68697	



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



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



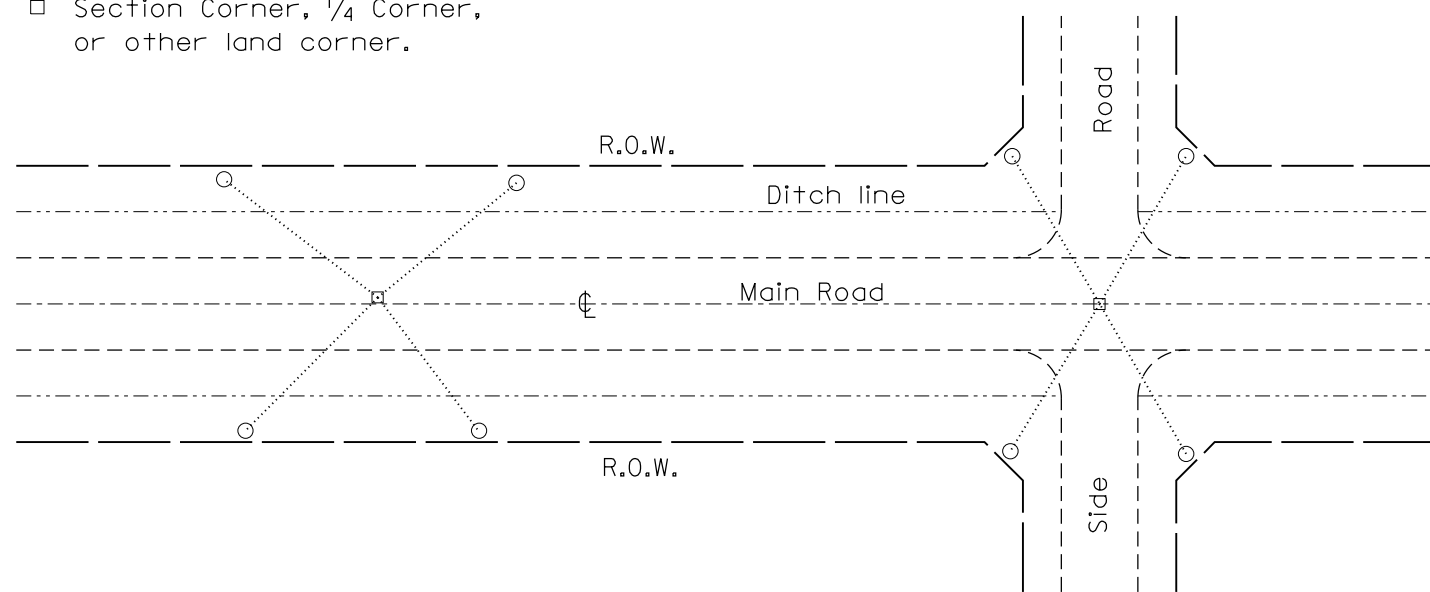
SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CADD Sheets\0468697-sheet.DRAWN.dgn		CHECKED -	REVISED -			1388	(Z-ID-BR-1)BR	PEORIA	89	39	
Default	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED -			SHT. 2 OF 2 CADD STD. 630101-D4					
	PLOT DATE = 3/20/2014					CONTRACT NO. 68697					

PERMANENT SURVEY TIES

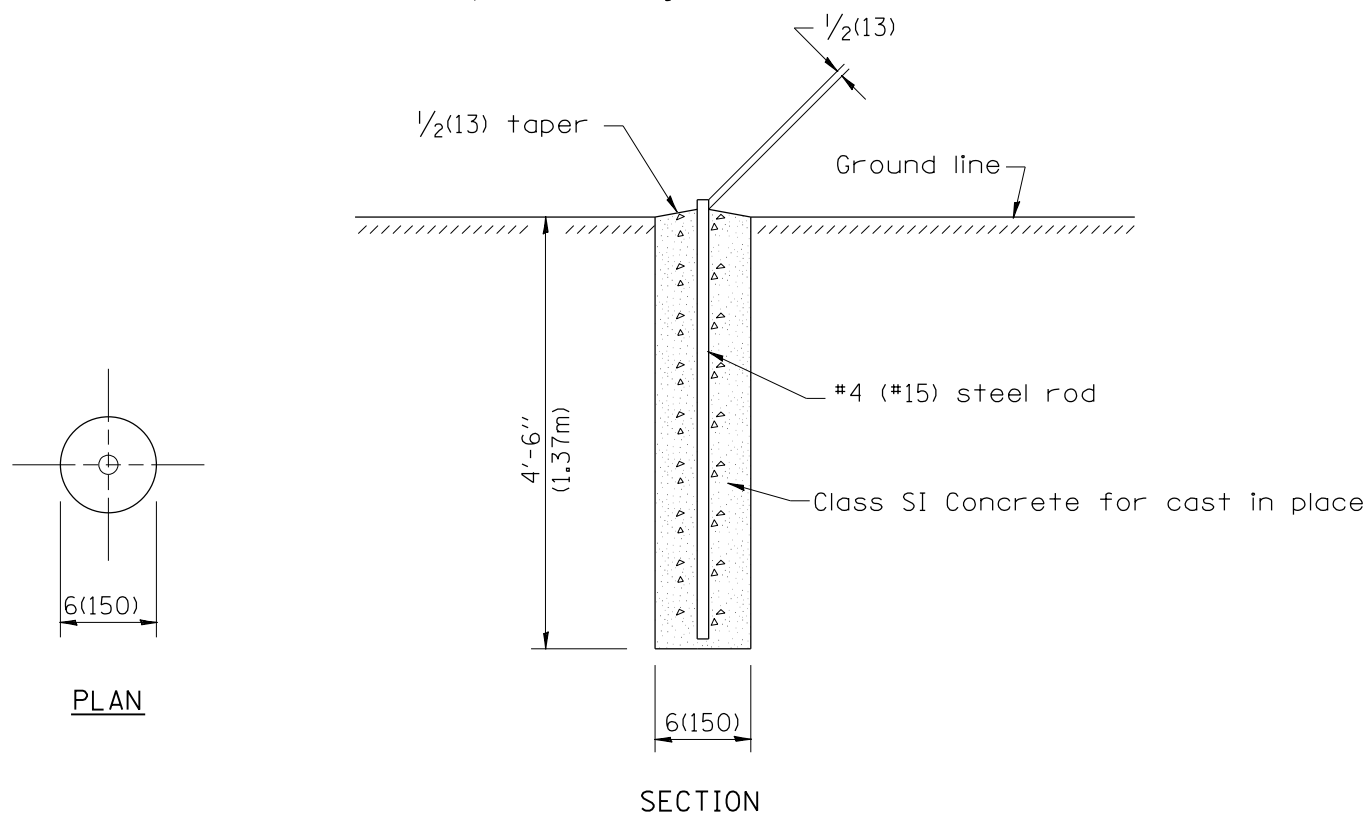
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



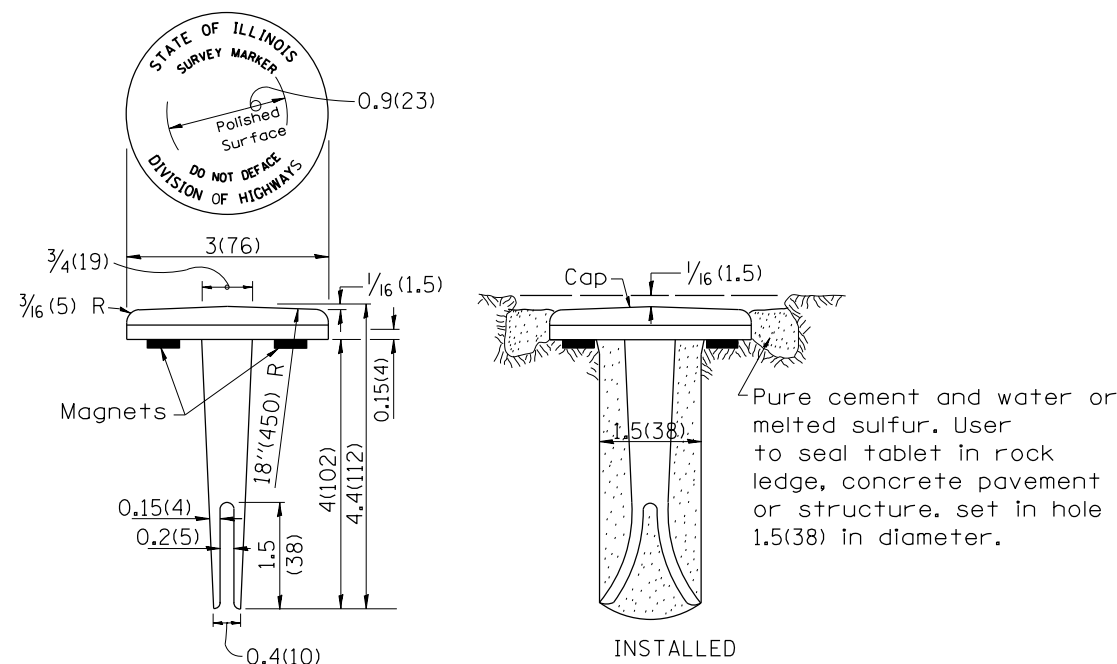
TYPICAL APPLICATION

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



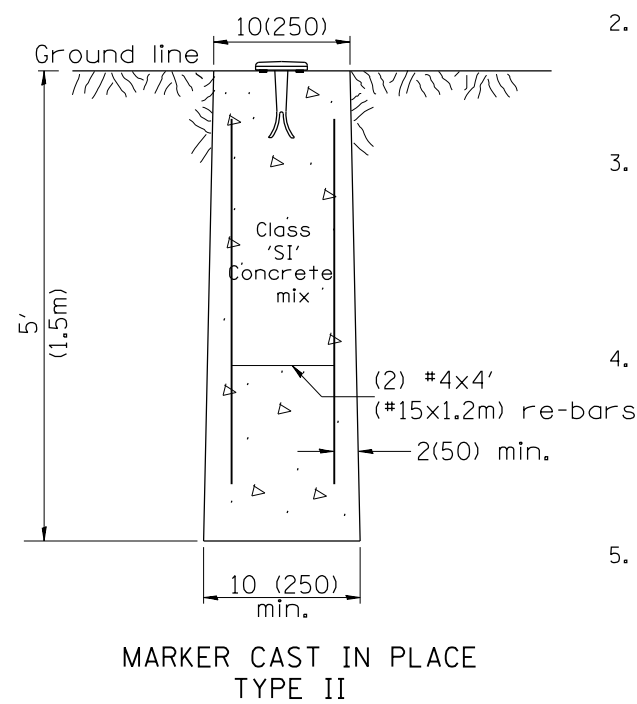
PERMANENT SURVEY MARKERS



TYPE I

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.



MARKER CAST IN PLACE TYPE II

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

DESIGNER NOTES:
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE.
 2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.
 4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

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.			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

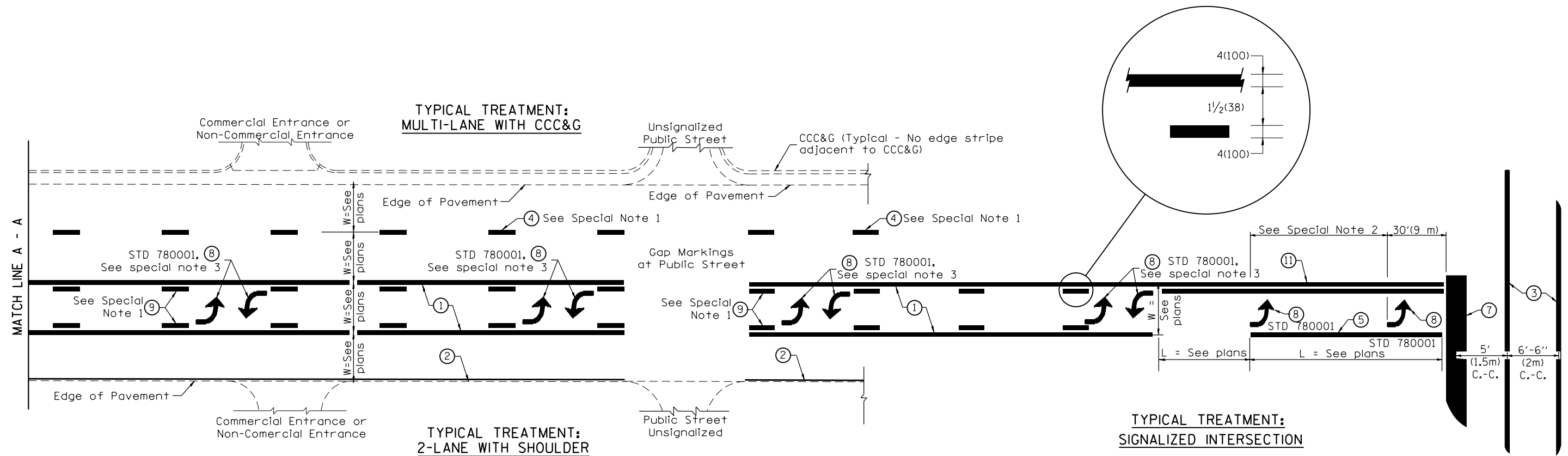
**PERMANENT SURVEY TIE &
 PERMANENT SURVEY MARKERS TY.I - TY.II
 IL 8 OVER KICKAPOO CREEK**

NOT TO SCALE

SHT. 1 OF 1
 CADD STD. 667101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-ID-BR-1)BR	PEORIA	89	40
CONTRACT NO. 68697				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)



**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.

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.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

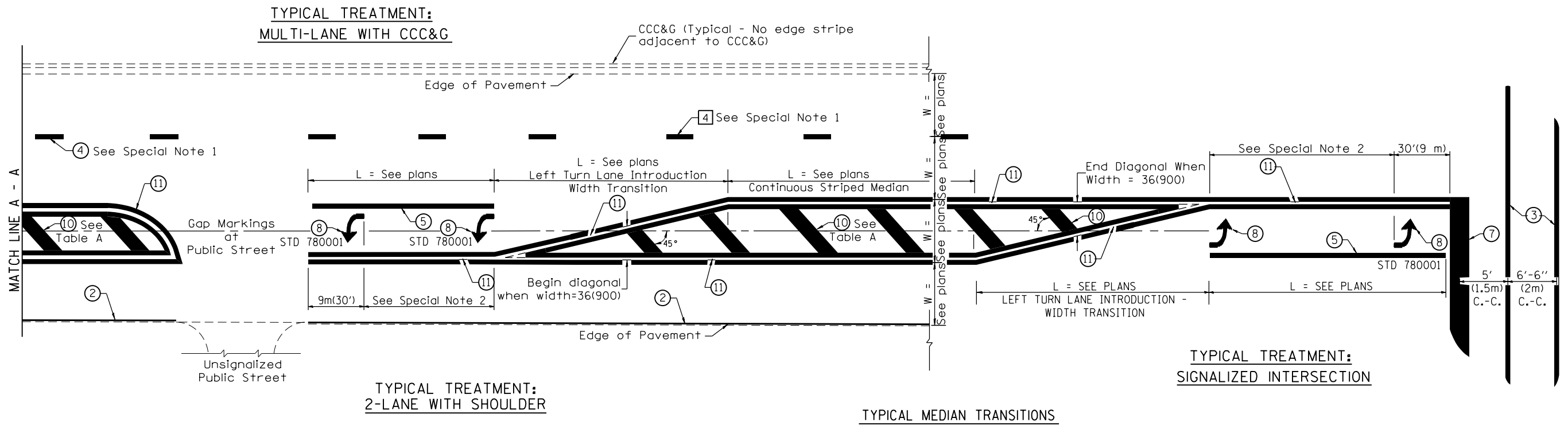
NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS
IL 8 OVER KICKAPOO CREEK**

SHEET NO. 12 OF 13 SHEETS

SHT. 1 OF 2
CADD STD. 780001-D4

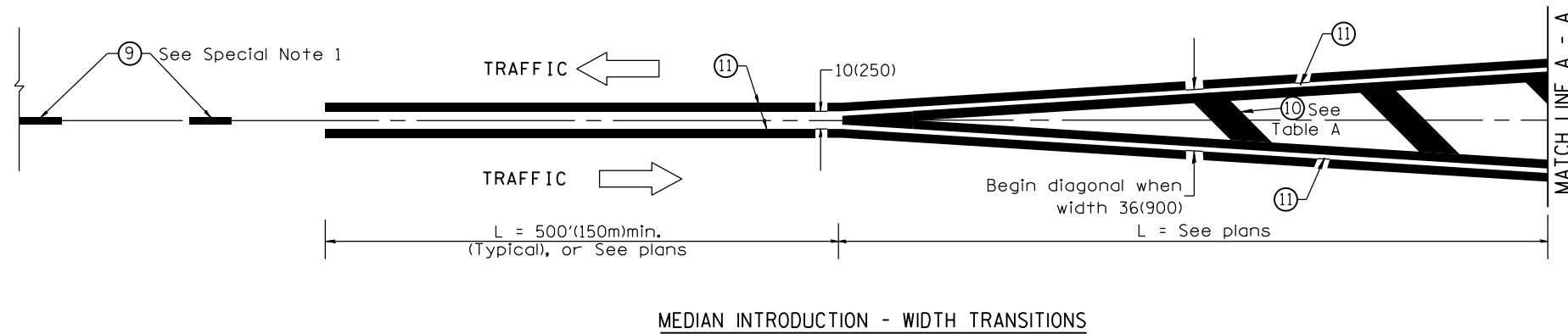
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	41
CONTRACT NO. 68697				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

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



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

Bench Mark: Chiseled "□" NW Wingwall of IL 8 Bridge over Kickapoo Creek. Elevation 512.50

Existing Structure: S.N. 072-0047 was built in 1931 under FAS 384, Section Z-ID at Station 101+16. In 1974 the east span of the original three span truss bridge was replaced with 2 simple span PPC deck beams and 1 new pier was added under FAS 384, Section Z-ID-BR. In 1979 the two spans reconstructed in 1974 were widened and the remaining two truss spans were replaced with 4 simple span PPC deck beams and 2 new piers were added under FAS 384, Section Z-ID-BR-1. The existing structure consists of a 6 span PPC deck beam superstructure with bituminous overlay on closed abutments, three solid wall enclosed pile bent piers supported by steel H-piles, and two concrete piers, 27'-4" back-to-back abutments, 33'-0" out-to-out deck. Structure to be removed and replaced using stage construction.

Traffic is to be maintained using staged construction.

Salvage: Temporary support beams and clamps. Deliver to IDOT Bridge Maintenance Yard, 604 Camp St. East Peoria, IL Contact Brian Ruder, 309-699-3822

* Remove Existing Bent 1 and Existing Pier 1 to match the elevation of existing slope mattress. Existing reinforcement shall be cut off flush with the surface to which the old concrete has been removed.

DESIGN SCOUR ELEVATION TABLE

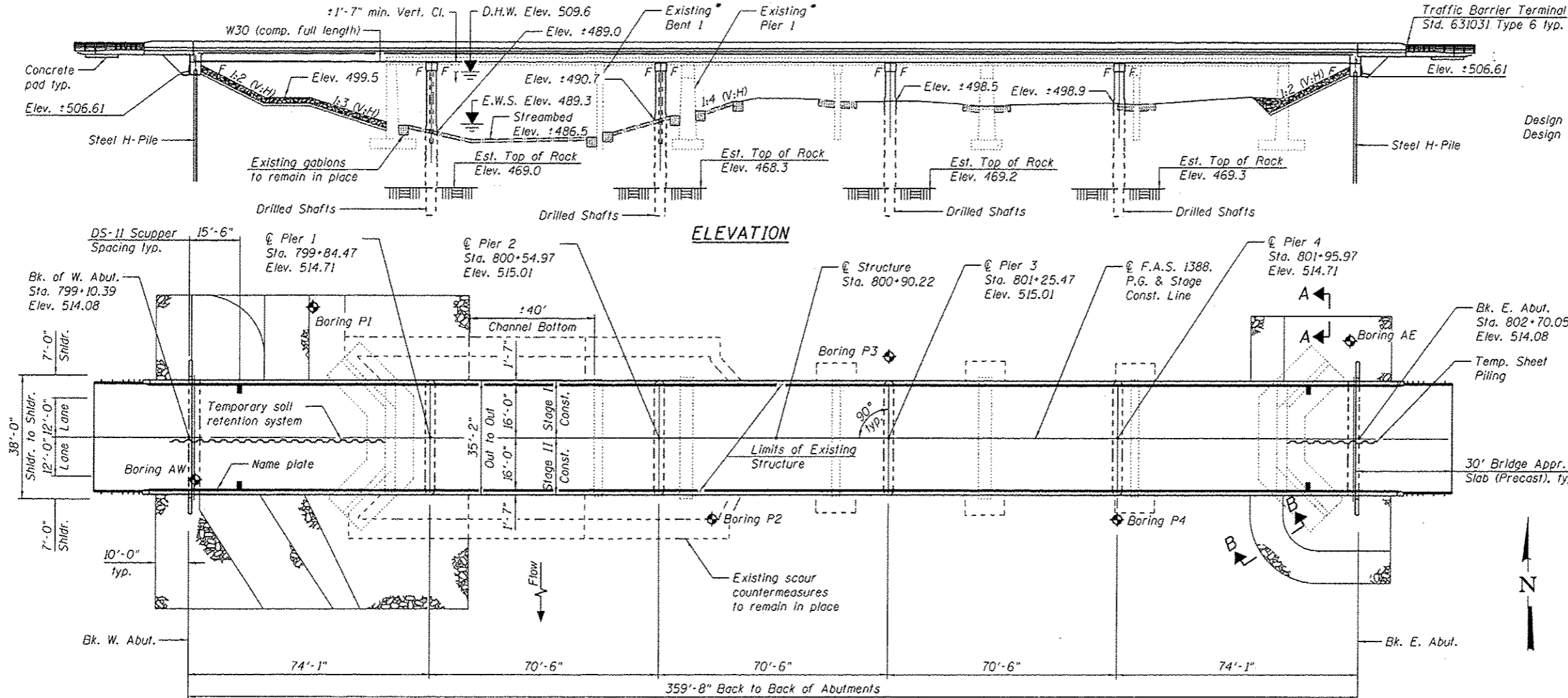
Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	E. Abut.
	506.61	467.3	467.1	468.9	468.7	506.61

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

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

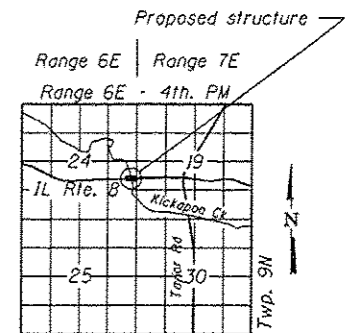
SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.110g
Design Spectral Acceleration at 0.2 sec. (S_{0s}) = 0.171g
Soil Site Class = D



STATION 800+90.22
BUILT BY
STATE OF ILLINOIS
F.A.S. RT. 1388 SEC. (Z-10-BR-1)BR
LOADING HL-93
STRUCTURE NO. 072-0229

NAME PLATE
See Std. 515001

Note: For Sections A-A & B-B see sheet 2 of 34.



LOCATION SKETCH

WATERWAY INFORMATION

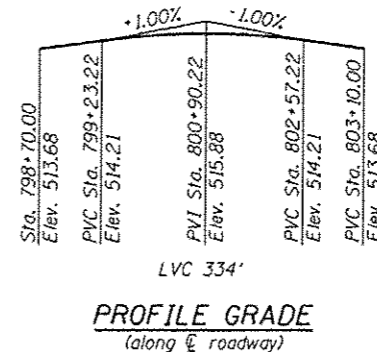
		Existing Overtopping Elev. 511.0 @ Sta. 799+50		Proposed Overtopping Elev. 511.0 @ Sta. 799+50		
Flood	Freq. Yr.	Q	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
		C.F.S.	Exist. Prop.	H.W.E.	Exist. Prop.	Exist. Prop.
Design	50	13900	2201 2592	506.6	1.3 1.0	507.9 507.6
Base	100	23000	2587 3530	509.6	1.6 1.6	511.2 511.2
Scour Design Check	200	27700	2587 3856	511.2	0.9 0.7	512.1 511.9
Overtop (Exist.)	25	18800	2488	-	508.2 3.0	- 511.2
Overtop (Prop.)	50	23000	-	3530	509.6	- 511.0
Max. Calc.	500	40400	2587 3856	514.9	0.5 0.5	515.4 515.4

10 Year Velocity Through Exist. Bridge = 6.3 ft/s 10 Year Velocity Through Prop. Bridge = 5.4 ft/s

APPROVED
For Structural Adequacy Only
De Carl Ruder
Engineer of Bridges & Structures



Brandon W. Potter 3-18-14
EXP. 11-30-14



PROFILE GRADE
(along roadway)

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 8 OVER
KICKAPOO CREEK
F.A.S. RT. 1388 - SEC. (Z-10-BR-1)BR
PEORIA COUNTY
STATION 800+90.22
STRUCTURE NO. 072-0229

FILE NAME : 0720229-68697-001-CPE.dgn	USER NAME :	DESIGNED - BWP	REVISED -
BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 111 NORTH EAST STREET MORRIS, IL 61201-1000 PHONE: 314-877-8388	PLOT SCALE :	CHECKED - RSB	REVISED -
	PLOT DATE : 3/19/2014	DRAWN - BWP	REVISED -
		CHECKED - RSB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 34 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-10-BR-1)BR	PEORIA	89	43
CONTRACT NO. 68697			ILLINOIS FED. AID PROJECT	

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5-8 Top of Slab Elevations
- 9 Top of West Approach Slab Elevations
- 10 Top of East Approach Slab Elevations
- 11 Superstructure
- 12 Superstructure Details
- 13 Diaphragm Details
- 14-17 Precast Bridge Approach Slab Details
- 18 Drainage Scuppers
- 19 Structural Steel Framing Plan
- 20 Fixed Bearing Details
- 21 West Abutment
- 22 East Abutment
- 23 Pier 1
- 24 Pier 2
- 25 Pier 3
- 26 Pier 4
- 27 HP Pile Details
- 28 Bar Splicer Assembly Details
- 29-34 Soil Boring Logs

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.
 Bolts 7/8 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
 Calculated weight of Structural Steel: AASHTO M 270 Gr. 50 = 288,650 lbs.
 AASHTO M 270 Gr. 36 = 22,860 lbs.

No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

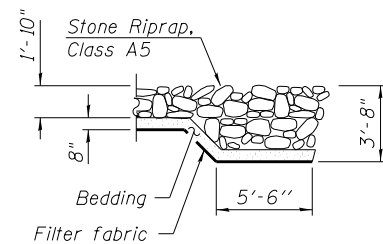
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 Slipforming of parapets is not allowed.
 Deliver temporary support beams and clamps to: IDOT Bridge Maintenance Yard
 604 Camp St.
 East Peoria, IL

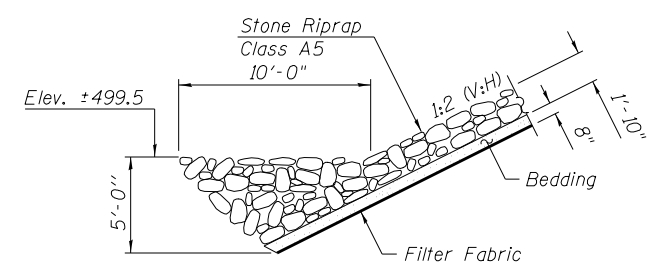
Contact: Brian Ruder,
 Phone: 309-699-3822

TOTAL BILL OF MATERIAL

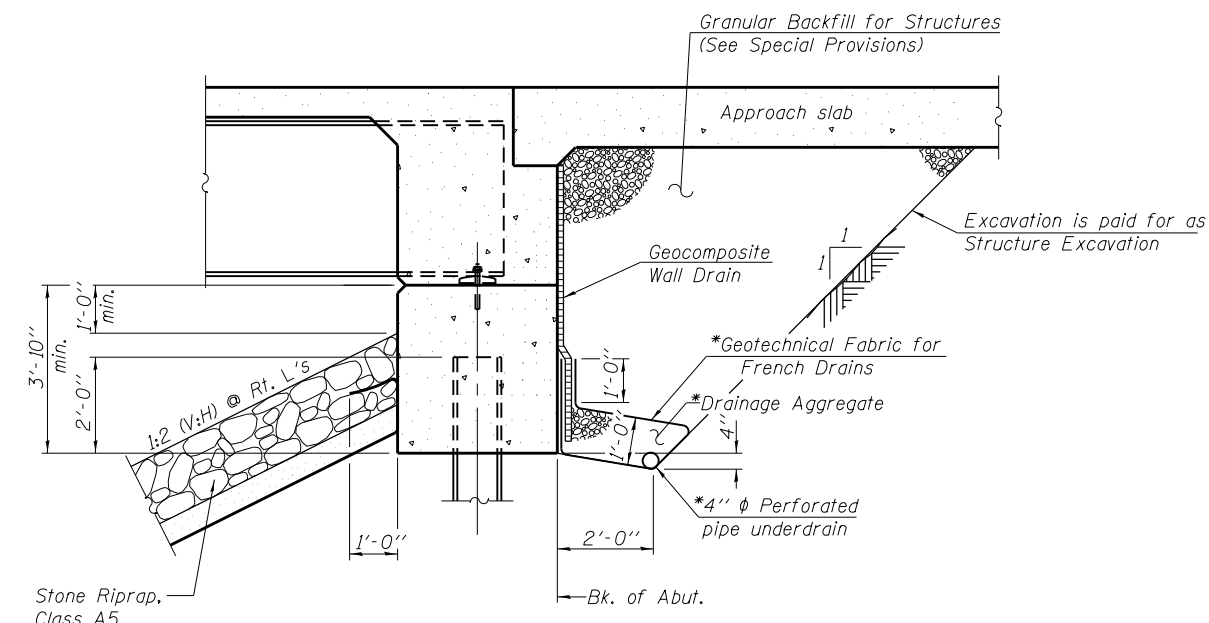
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1179	1179
Filter Fabric	Sq. Yd.		1179	1179
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		188	188
Concrete Structures	Cu. Yd.		208.7	208.7
Concrete Superstructure	Cu. Yd.	432.5		432.5
Bridge Deck Grooving	Sq. Yd.	1392		1392
Protective Coat	Sq. Yd.	1817		1817
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	7902		7902
Reinforcement Bars	Pound		12550	12550
Reinforcement Bars, Epoxy Coated	Pound	111790	57450	169240
Bar Splicers	Each	1120	580	1700
Mechanical Splicers	Each		224	224
Furnishing Steel Piles HP 12x53	Foot		435	435
Driving Piles	Foot		435	435
Test Pile Steel HP 12x53	Each		2	2
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		110.6	110.6
Drilled Shaft in Rock	Cu. Yd.		53.8	53.8
Preformed Joint Strip Seal	Foot	68		68
Anchor Bolts, 1"	Each		72	72
Geocomposite Wall Drain	Sq. Yd.		56	56
Concrete Wearing Surface, 5"	Sq. Yd.	230		230
Precast Bridge Approach Slab	Sq. Ft.	1980		1980
Granular Backfill for Structures	Cu. Yd.		100	100
Drainage Scupper, DS-II	Each	4		4
Temporary Sheet Piling	Sq. Ft.		910	910
Pipe Underdrains for Structures 4"	Foot		132	132
Temporary Soil Retention System	Sq. Ft.		930	930



SECTION A-A



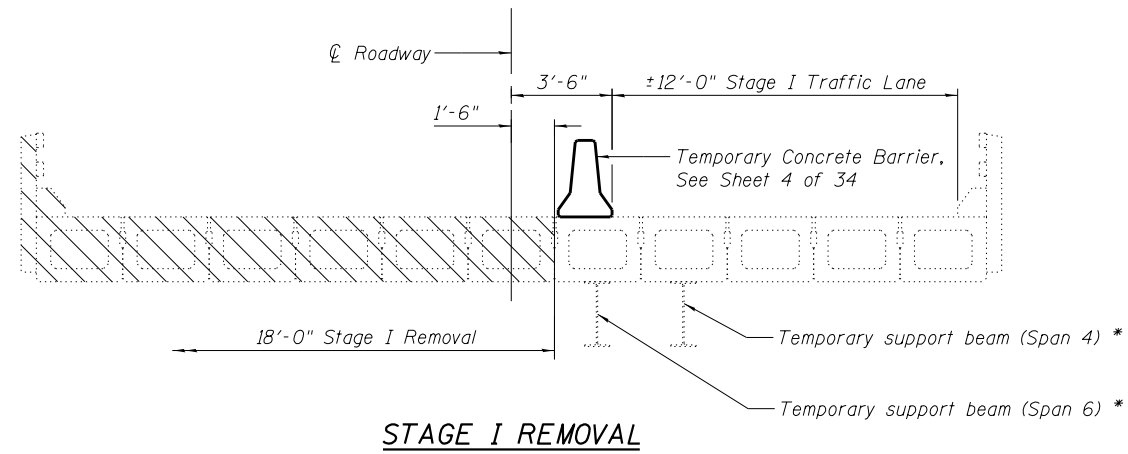
SECTION B-B



SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. @ Rt. L's)

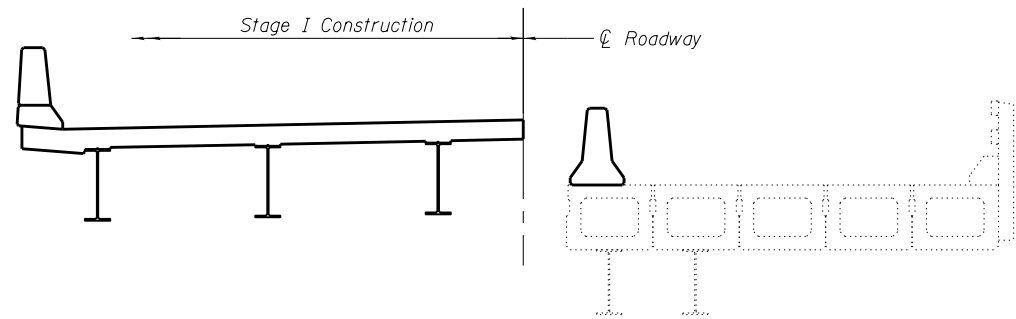
*Included in the cost of Pipe Underdrains for Structures.
 (See Special Provisions)

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

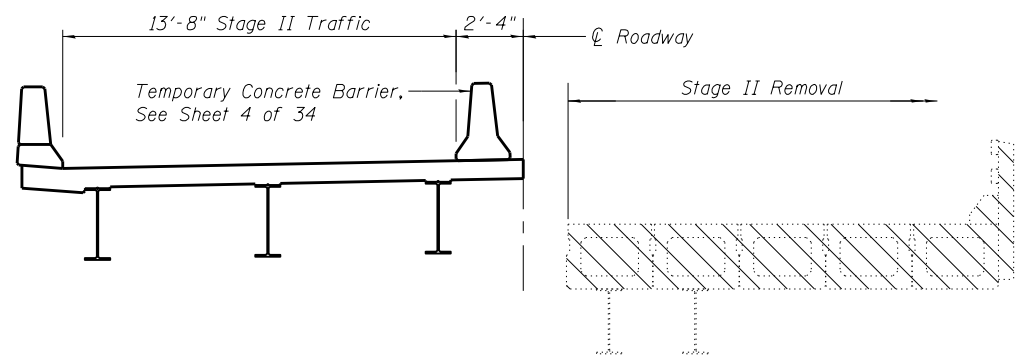


STAGE I REMOVAL

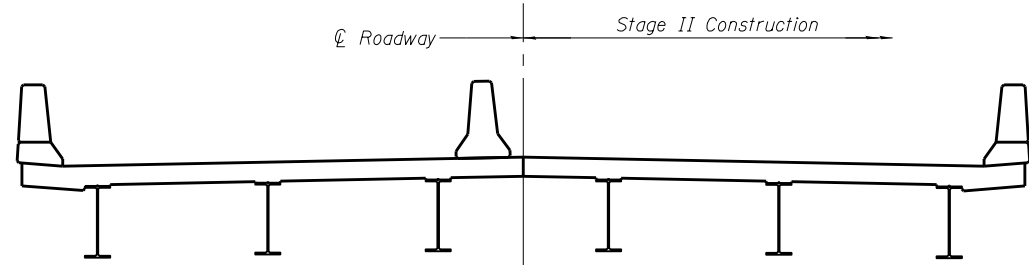
* Temporary support beams to be removed and salvaged. Cost included with Removal of Existing Structures.



STAGE I CONSTRUCTION



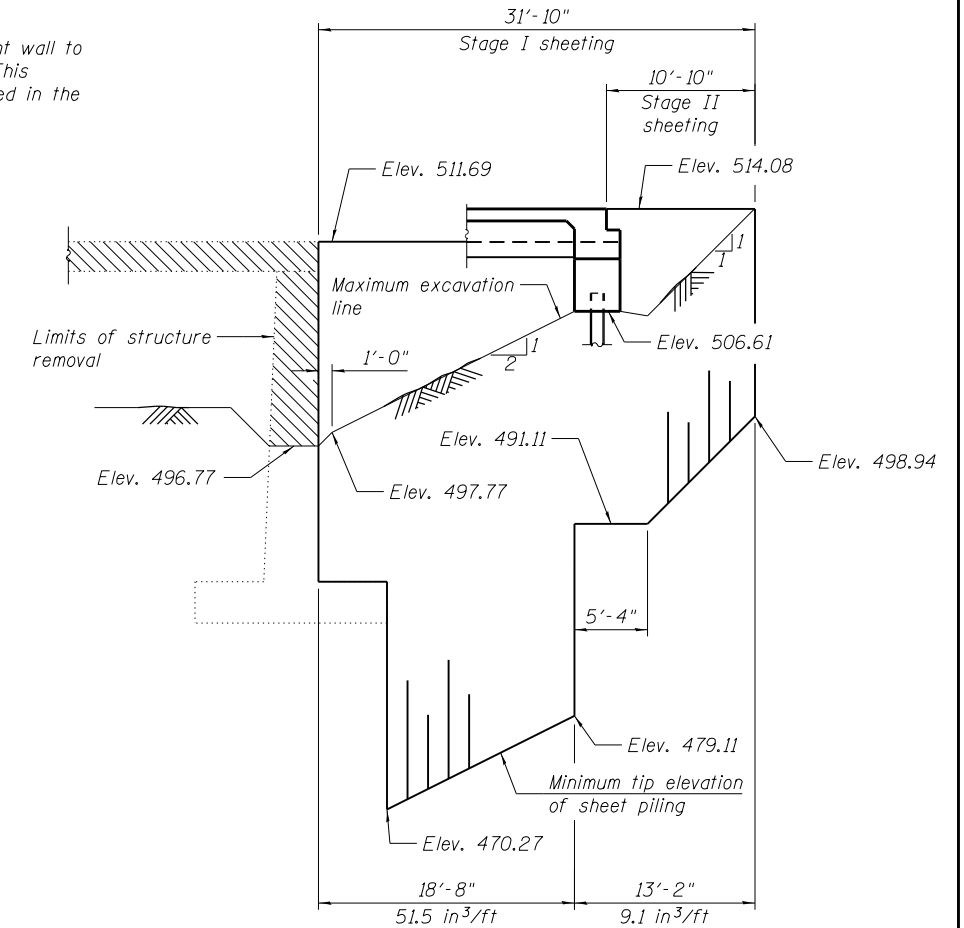
STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:

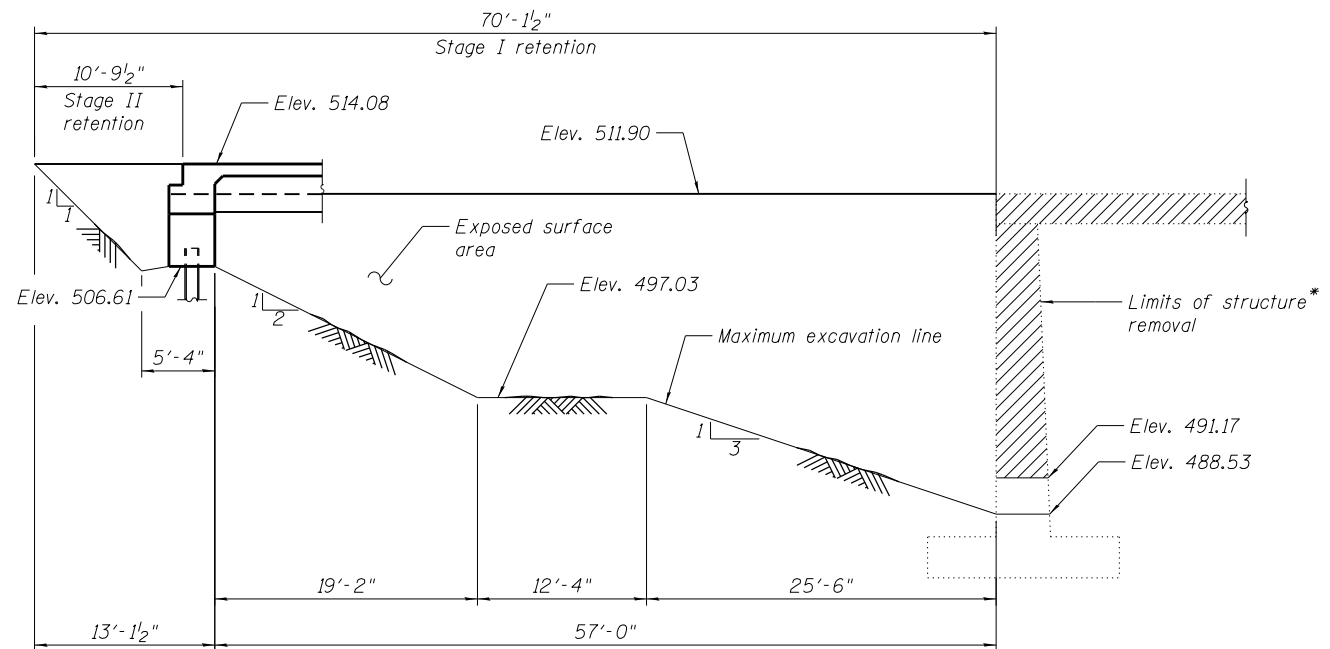
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



TEMPORARY SHEET PILING AT EAST ABUTMENT

Notes:

All staging cross sections are looking East.
 For quantity of Temporary Concrete Barrier, see roadway plans.
 Hatched area indicates Removal of Existing Structures.



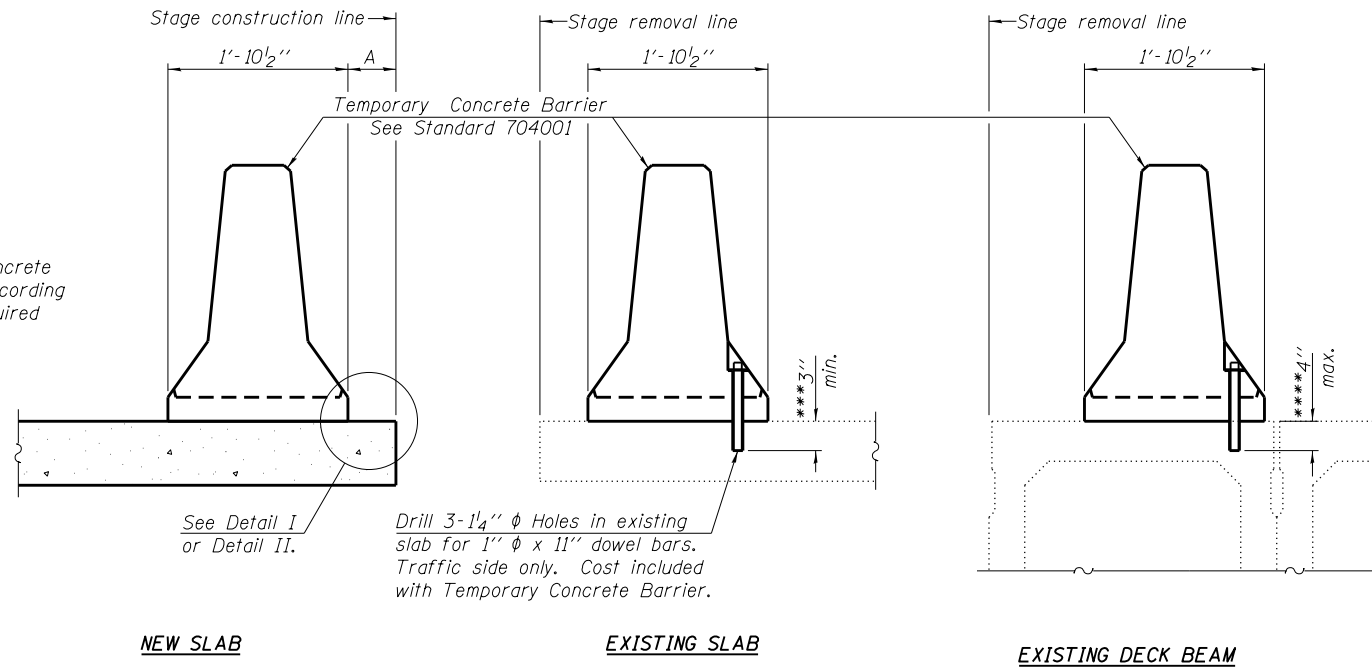
TEMPORARY SOIL RETENTION AT WEST ABUTMENT

Note:

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME = 0720229-68697-003-Stg Const Details.dgn	USER NAME =	DESIGNED - BWP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 072-0229	F.A.S. RTE. 1388	SECTION (Z-1D-BR-1)BR	COUNTY PEORIA	TOTAL SHEETS 89	SHEET NO. 45	
BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 433 NORTH COURT STREET MARIETTA, IL 61759-0007 PHONE: 815.937.9100	PLOT SCALE =	CHECKED - CMV	REVISED -			CONTRACT NO. 68697					
	PLOT DATE = 3/18/2014	DRAWN - BJV	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED - CMV	REVISED -			SHEET NO. 3 OF 34 SHEETS					

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

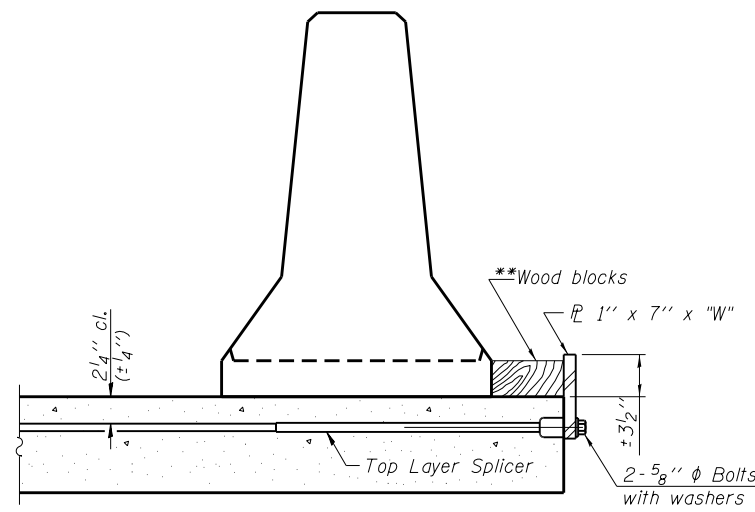
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

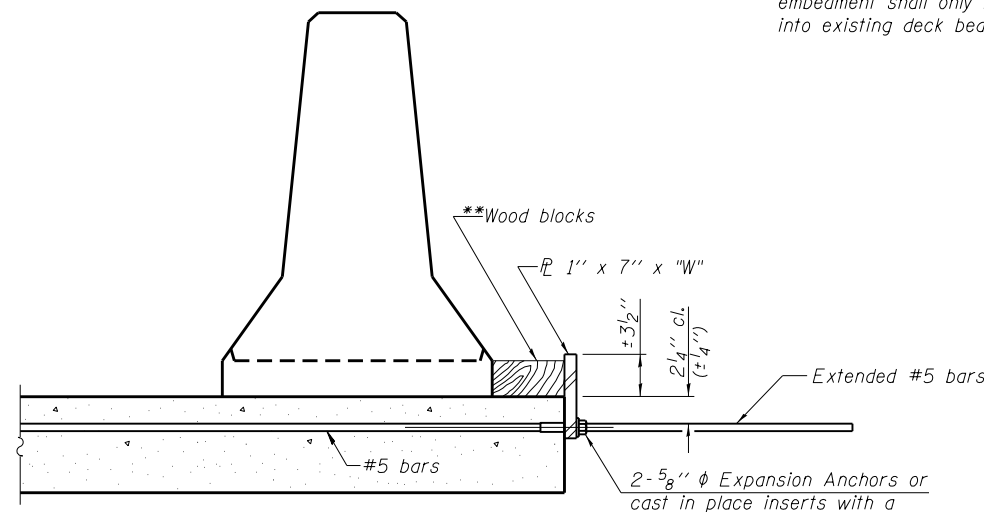
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

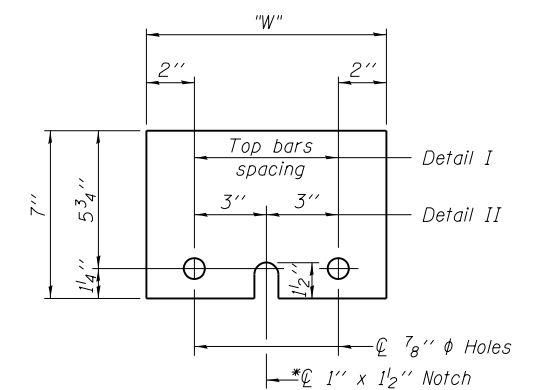
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

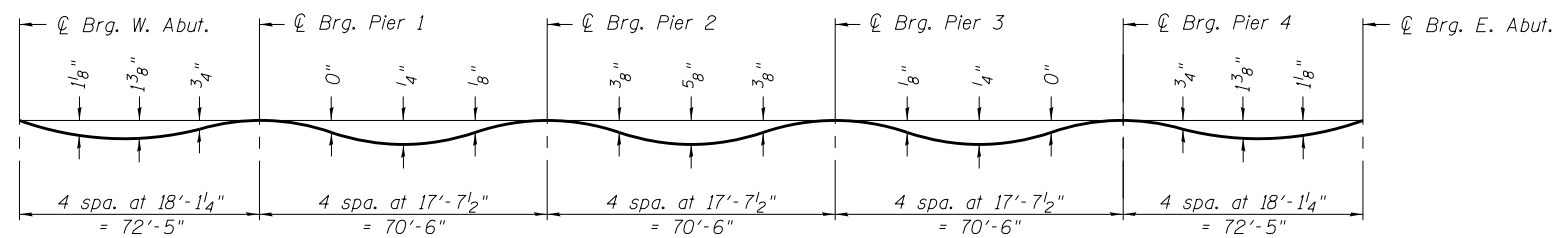
* Required only with Detail II

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

"W" = Top bars spacing + 4"

R-27 7-1-10

FILE NAME = 0720229-68697-004-Temporary Concrete Bar	DESIGNED - BWP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 072-0229	F.A.S. R.E. = 1388	SECTION = (Z-1D-BR-1)BR	COUNTY = PEORIA	TOTAL SHEETS = 89	SHEET NO. = 46	
BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 433 NORTH COURT STREET MARENA, ILLINOIS 62459 PHONE: 618.997.9100	CHECKED - CMV	REVISED -			CONTRACT NO. 68697					
PLOT SCALE =	DRAWN - BWP	REVISED -			SHEET NO. 4 OF 34 SHEETS					
PLOT DATE = 3/18/2014	CHECKED - CMV	REVISED -			ILLINOIS FED. AID PROJECT					

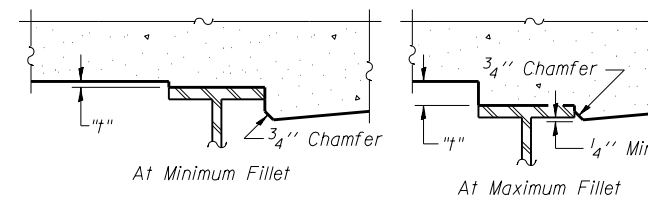


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

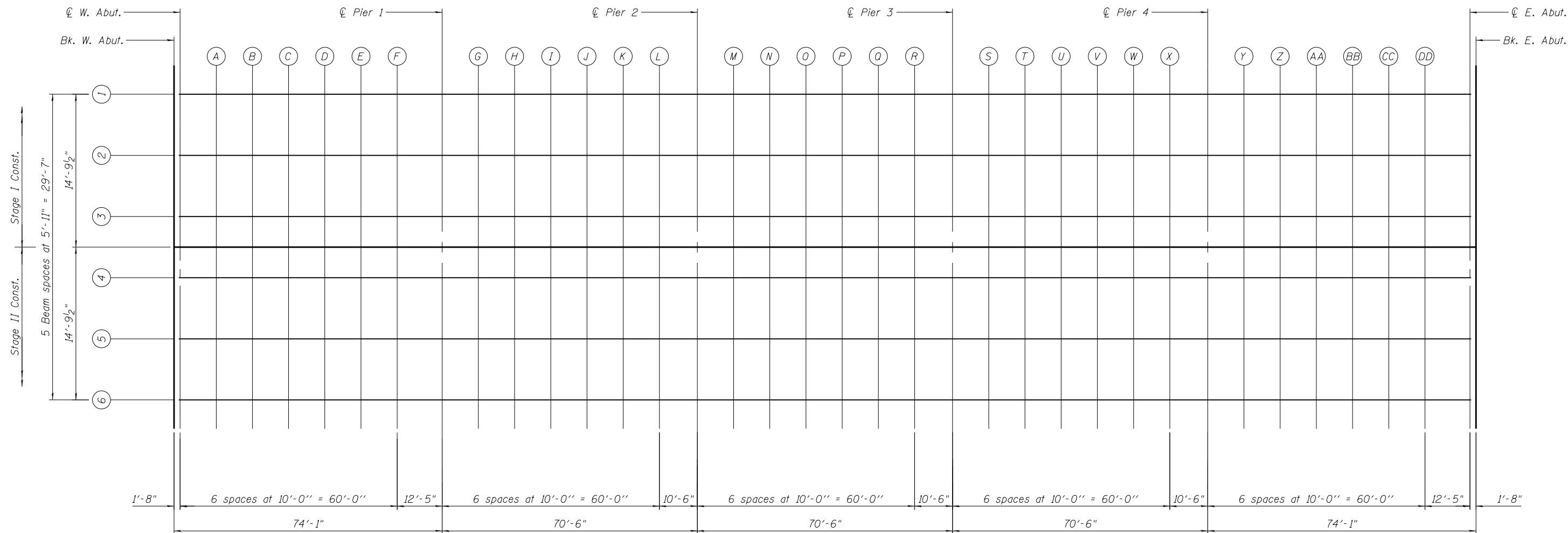
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 6, 7, and 8 of 34, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

FILE NAME = 0720229-68697-005-TOS Elevations.dgn BFW BACON FARMER WORKMAN ENGINEERING & TESTING, INC. <small>433 NORTH COURT STREET MAHON, ILLINOIS 60451 PHONE: 815.937.9100</small>	USER NAME =	DESIGNED - BWP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 072-0229	F.A.S. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - CMV	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	47
PLOT DATE = 3/18/2014	CHECKED - BWP	REVISED -		SHEET NO. 5 OF 34 SHEETS		CONTRACT NO. 68697			ILLINOIS FED. AID PROJECT	

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	-14.79	513.84	513.84
☉ W. Abut.	799+12.06	-14.79	513.85	513.85
A	799+22.06	-14.79	513.95	514.01
B	799+32.06	-14.79	514.05	514.15
C	799+42.06	-14.79	514.14	514.26
D	799+52.06	-14.79	514.23	514.34
E	799+62.06	-14.79	514.31	514.39
F	799+72.06	-14.79	514.38	514.42
☉ Pier 1	799+84.47	-14.79	514.46	514.46
G	799+94.47	-14.79	514.52	514.52
H	800+04.47	-14.79	514.58	514.59
I	800+14.47	-14.79	514.63	514.65
J	800+24.47	-14.79	514.67	514.69
K	800+34.47	-14.79	514.71	514.72
L	800+44.47	-14.79	514.74	514.74
☉ Pier 2	800+54.97	-14.79	514.76	514.76
M	800+64.97	-14.79	514.78	514.80
N	800+74.97	-14.79	514.79	514.83
O	800+84.97	-14.79	514.80	514.85
P	800+94.97	-14.79	514.80	514.85
Q	801+04.97	-14.79	514.79	514.83
R	801+14.97	-14.79	514.78	514.80
☉ Pier 3	801+25.47	-14.79	514.76	514.76
S	801+35.47	-14.79	514.74	514.74
T	801+45.47	-14.79	514.71	514.72
U	801+55.47	-14.79	514.67	514.69
V	801+65.47	-14.79	514.63	514.65
W	801+75.47	-14.79	514.58	514.59
X	801+85.47	-14.79	514.53	514.52
☉ Pier 4	801+95.97	-14.79	514.46	514.46
Y	802+05.97	-14.79	514.40	514.43
Z	802+15.97	-14.79	514.33	514.40
AA	802+25.97	-14.79	514.25	514.35
BB	802+35.97	-14.79	514.16	514.28
CC	802+45.97	-14.79	514.07	514.17
DD	802+55.97	-14.79	513.98	514.04
☉ E. Abut.	802+68.38	-14.79	513.85	513.85
Bk. E. Abut.	802+70.05	-14.79	513.84	513.84

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	-8.88	513.94	513.94
☉ W. Abut.	799+12.06	-8.88	513.96	513.96
A	799+22.06	-8.88	514.06	514.12
B	799+32.06	-8.88	514.16	514.25
C	799+42.06	-8.88	514.25	514.36
D	799+52.06	-8.88	514.33	514.44
E	799+62.06	-8.88	514.41	514.49
F	799+72.06	-8.88	514.49	514.53
☉ Pier 1	799+84.47	-8.88	514.57	514.57
G	799+94.47	-8.88	514.63	514.63
H	800+04.47	-8.88	514.69	514.69
I	800+14.47	-8.88	514.73	514.75
J	800+24.47	-8.88	514.78	514.80
K	800+34.47	-8.88	514.81	514.83
L	800+44.47	-8.88	514.84	514.85
☉ Pier 2	800+54.97	-8.88	514.87	514.87
M	800+64.97	-8.88	514.89	514.90
N	800+74.97	-8.88	514.90	514.93
O	800+84.97	-8.88	514.91	514.95
P	800+94.97	-8.88	514.91	514.95
Q	801+04.97	-8.88	514.90	514.94
R	801+14.97	-8.88	514.89	514.90
☉ Pier 3	801+25.47	-8.88	514.87	514.87
S	801+35.47	-8.88	514.85	514.85
T	801+45.47	-8.88	514.81	514.83
U	801+55.47	-8.88	514.78	514.80
V	801+65.47	-8.88	514.74	514.75
W	801+75.47	-8.88	514.69	514.70
X	801+85.47	-8.88	514.63	514.63
☉ Pier 4	801+95.97	-8.88	514.57	514.57
Y	802+05.97	-8.88	514.51	514.54
Z	802+15.97	-8.88	514.43	514.51
AA	802+25.97	-8.88	514.35	514.46
BB	802+35.97	-8.88	514.27	514.39
CC	802+45.97	-8.88	514.18	514.28
DD	802+55.97	-8.88	514.08	514.14
☉ E. Abut.	802+68.38	-8.88	513.96	513.96
Bk. E. Abut.	802+70.05	-8.88	513.94	513.94

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	-2.96	514.04	514.04
☉ W. Abut.	799+12.06	-2.96	514.05	514.05
A	799+22.06	-2.96	514.15	514.21
B	799+32.06	-2.96	514.25	514.35
C	799+42.06	-2.96	514.34	514.46
D	799+52.06	-2.96	514.43	514.54
E	799+62.06	-2.96	514.51	514.59
F	799+72.06	-2.96	514.58	514.62
☉ Pier 1	799+84.47	-2.96	514.66	514.66
G	799+94.47	-2.96	514.72	514.72
H	800+04.47	-2.96	514.78	514.79
I	800+14.47	-2.96	514.83	514.84
J	800+24.47	-2.96	514.87	514.89
K	800+34.47	-2.96	514.91	514.92
L	800+44.47	-2.96	514.94	514.94
☉ Pier 2	800+54.97	-2.96	514.96	514.96
M	800+64.97	-2.96	514.98	514.99
N	800+74.97	-2.96	514.99	515.03
O	800+84.97	-2.96	515.00	515.05
P	800+94.97	-2.96	515.00	515.05
Q	801+04.97	-2.96	514.99	515.03
R	801+14.97	-2.96	514.98	515.00
☉ Pier 3	801+25.47	-2.96	514.96	514.96
S	801+35.47	-2.96	514.94	514.94
T	801+45.47	-2.96	514.91	514.92
U	801+55.47	-2.96	514.87	514.89
V	801+65.47	-2.96	514.83	514.85
W	801+75.47	-2.96	514.78	514.79
X	801+85.47	-2.96	514.73	514.72
☉ Pier 4	801+95.97	-2.96	514.66	514.66
Y	802+05.97	-2.96	514.60	514.63
Z	802+15.97	-2.96	514.53	514.60
AA	802+25.97	-2.96	514.45	514.55
BB	802+35.97	-2.96	514.36	514.48
CC	802+45.97	-2.96	514.27	514.37
DD	802+55.97	-2.96	514.18	514.24
☉ E. Abut.	802+68.38	-2.96	514.05	514.05
Bk. E. Abut.	802+70.05	-2.96	514.04	514.04

☉ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	0.00	514.08	514.08
☉ W. Abut.	799+12.06	0.00	514.10	514.10
A	799+22.06	0.00	514.20	514.25
B	799+32.06	0.00	514.30	514.39
C	799+42.06	0.00	514.39	514.50
D	799+52.06	0.00	514.47	514.58
E	799+62.06	0.00	514.55	514.63
F	799+72.06	0.00	514.63	514.67
☉ Pier 1	799+84.47	0.00	514.71	514.71
G	799+94.47	0.00	514.77	514.77
H	800+04.47	0.00	514.82	514.83
I	800+14.47	0.00	514.87	514.89
J	800+24.47	0.00	514.92	514.94
K	800+34.47	0.00	514.95	514.97
L	800+44.47	0.00	514.98	514.99
☉ Pier 2	800+54.97	0.00	515.01	515.01
M	800+64.97	0.00	515.03	515.04
N	800+74.97	0.00	515.04	515.07
O	800+84.97	0.00	515.04	515.09
P	800+94.97	0.00	515.04	515.09
Q	801+04.97	0.00	515.04	515.07
R	801+14.97	0.00	515.03	515.04
☉ Pier 3	801+25.47	0.00	515.01	515.01
S	801+35.47	0.00	514.98	514.99
T	801+45.47	0.00	514.95	514.97
U	801+55.47	0.00	514.92	514.94
V	801+65.47	0.00	514.88	514.89
W	801+75.47	0.00	514.83	514.83
X	801+85.47	0.00	514.77	514.77
☉ Pier 4	801+95.97	0.00	514.71	514.71
Y	802+05.97	0.00	514.64	514.67
Z	802+15.97	0.00	514.57	514.64
AA	802+25.97	0.00	514.49	514.60
BB	802+35.97	0.00	514.41	514.53
CC	802+45.97	0.00	514.32	514.42
DD	802+55.97	0.00	514.22	514.28
☉ E. Abut.	802+68.38	0.00	514.10	514.10
Bk. E. Abut.	802+70.05	0.00	514.08	514.08

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	2.96	514.04	514.04
☉ W. Abut.	799+12.06	2.96	514.05	514.05
A	799+22.06	2.96	514.15	514.21
B	799+32.06	2.96	514.25	514.35
C	799+42.06	2.96	514.34	514.46
D	799+52.06	2.96	514.43	514.54
E	799+62.06	2.96	514.51	514.59
F	799+72.06	2.96	514.58	514.62
☉ Pier 1	799+84.47	2.96	514.66	514.66
G	799+94.47	2.96	514.72	514.72
H	800+04.47	2.96	514.78	514.79
I	800+14.47	2.96	514.83	514.84
J	800+24.47	2.96	514.87	514.89
K	800+34.47	2.96	514.91	514.92
L	800+44.47	2.96	514.94	514.94
☉ Pier 2	800+54.97	2.96	514.96	514.96
M	800+64.97	2.96	514.98	514.99
N	800+74.97	2.96	514.99	515.03
O	800+84.97	2.96	515.00	515.05
P	800+94.97	2.96	515.00	515.05
Q	801+04.97	2.96	514.99	515.03
R	801+14.97	2.96	514.98	515.00
☉ Pier 3	801+25.47	2.96	514.96	514.96
S	801+35.47	2.96	514.94	514.94
T	801+45.47	2.96	514.91	514.92
U	801+55.47	2.96	514.87	514.89
V	801+65.47	2.96	514.83	514.85
W	801+75.47	2.96	514.78	514.79
X	801+85.47	2.96	514.73	514.72
☉ Pier 4	801+95.97	2.96	514.66	514.66
Y	802+05.97	2.96	514.60	514.63
Z	802+15.97	2.96	514.53	514.60
AA	802+25.97	2.96	514.45	514.55
BB	802+35.97	2.96	514.36	514.48
CC	802+45.97	2.96	514.27	514.37
DD	802+55.97	2.96	514.18	514.24
☉ E. Abut.	802+68.38	2.96	514.05	514.05
Bk. E. Abut.	802+70.05	2.96	514.04	514.04

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	8.88	513.94	513.94
☉ W. Abut.	799+12.06	8.88	513.96	513.96
A	799+22.06	8.88	514.06	514.12
B	799+32.06	8.88	514.16	514.25
C	799+42.06	8.88	514.25	514.36
D	799+52.06	8.88	514.33	514.44
E	799+62.06	8.88	514.41	514.49
F	799+72.06	8.88	514.49	514.53
☉ Pier 1	799+84.47	8.88	514.57	514.57
G	799+94.47	8.88	514.63	514.63
H	800+04.47	8.88	514.69	514.69
I	800+14.47	8.88	514.73	514.75
J	800+24.47	8.88	514.78	514.80
K	800+34.47	8.88	514.81	514.83
L	800+44.47	8.88	514.84	514.85
☉ Pier 2	800+54.97	8.88	514.87	514.87
M	800+64.97	8.88	514.89	514.90
N	800+74.97	8.88	514.90	514.93
O	800+84.97	8.88	514.91	514.95
P	800+94.97	8.88	514.91	514.95
Q	801+04.97	8.88	514.90	514.94
R	801+14.97	8.88	514.89	514.90
☉ Pier 3	801+25.47	8.88	514.87	514.87
S	801+35.47	8.88	514.85	514.85
T	801+45.47	8.88	514.81	514.83
U	801+55.47	8.88	514.78	514.80
V	801+65.47	8.88	514.74	514.75
W	801+75.47	8.88	514.69	514.70
X	801+85.47	8.88	514.63	514.63
☉ Pier 4	801+95.97	8.88	514.57	514.57
Y	802+05.97	8.88	514.51	514.54
Z	802+15.97	8.88	514.43	514.51
AA	802+25.97	8.88	514.35	514.46
BB	802+35.97	8.88	514.27	514.39
CC	802+45.97	8.88	514.18	514.28
DD	802+55.97	8.88	514.08	514.14
☉ E. Abut.	802+68.38	8.88	513.96	513.96
Bk. E. Abut.	802+70.05	8.88	513.94	513.94

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	799+10.39	14.79	513.84	513.84
☉ W. Abut.	799+12.06	14.79	513.85	513.85
A	799+22.06	14.79	513.95	514.01
B	799+32.06	14.79	514.05	514.15
C	799+42.06	14.79	514.14	514.26
D	799+52.06	14.79	514.23	514.34
E	799+62.06	14.79	514.31	514.39
F	799+72.06	14.79	514.38	514.42
☉ Pier 1	799+84.47	14.79	514.46	514.46
G	799+94.47	14.79	514.52	514.52
H	800+04.47	14.79	514.58	514.59
I	800+14.47	14.79	514.63	514.65
J	800+24.47	14.79	514.67	514.69
K	800+34.47	14.79	514.71	514.72
L	800+44.47	14.79	514.74	514.74
☉ Pier 2	800+54.97	14.79	514.76	514.76
M	800+64.97	14.79	514.78	514.80
N	800+74.97	14.79	514.79	514.83
O	800+84.97	14.79	514.80	514.85
P	800+94.97	14.79	514.80	514.85
Q	801+04.97	14.79	514.79	514.83
R	801+14.97	14.79	514.78	514.80
☉ Pier 3	801+25.47	14.79	514.76	514.76
S	801+35.47	14.79	514.74	514.74
T	801+45.47	14.79	514.71	514.72
U	801+55.47	14.79	514.67	514.69
V	801+65.47	14.79	514.63	514.65
W	801+75.47	14.79	514.58	514.59
X	801+85.47	14.79	514.53	514.52
☉ Pier 4	801+95.97	14.79	514.46	514.46
Y	802+05.97	14.79	514.40	514.43
Z	802+15.97	14.79	514.33	514.40
AA	802+25.97	14.79	514.25	514.35
BB	802+35.97	14.79	514.16	514.28
CC	802+45.97	14.79	514.07	514.17
DD	802+55.97	14.79	513.98	514.04
☉ E. Abut.	802+68.38	14.79	513.85	513.85
Bk. E. Abut.	802+70.05	14.79	513.84	513.84

NORTH EDGE OF SHOULDER

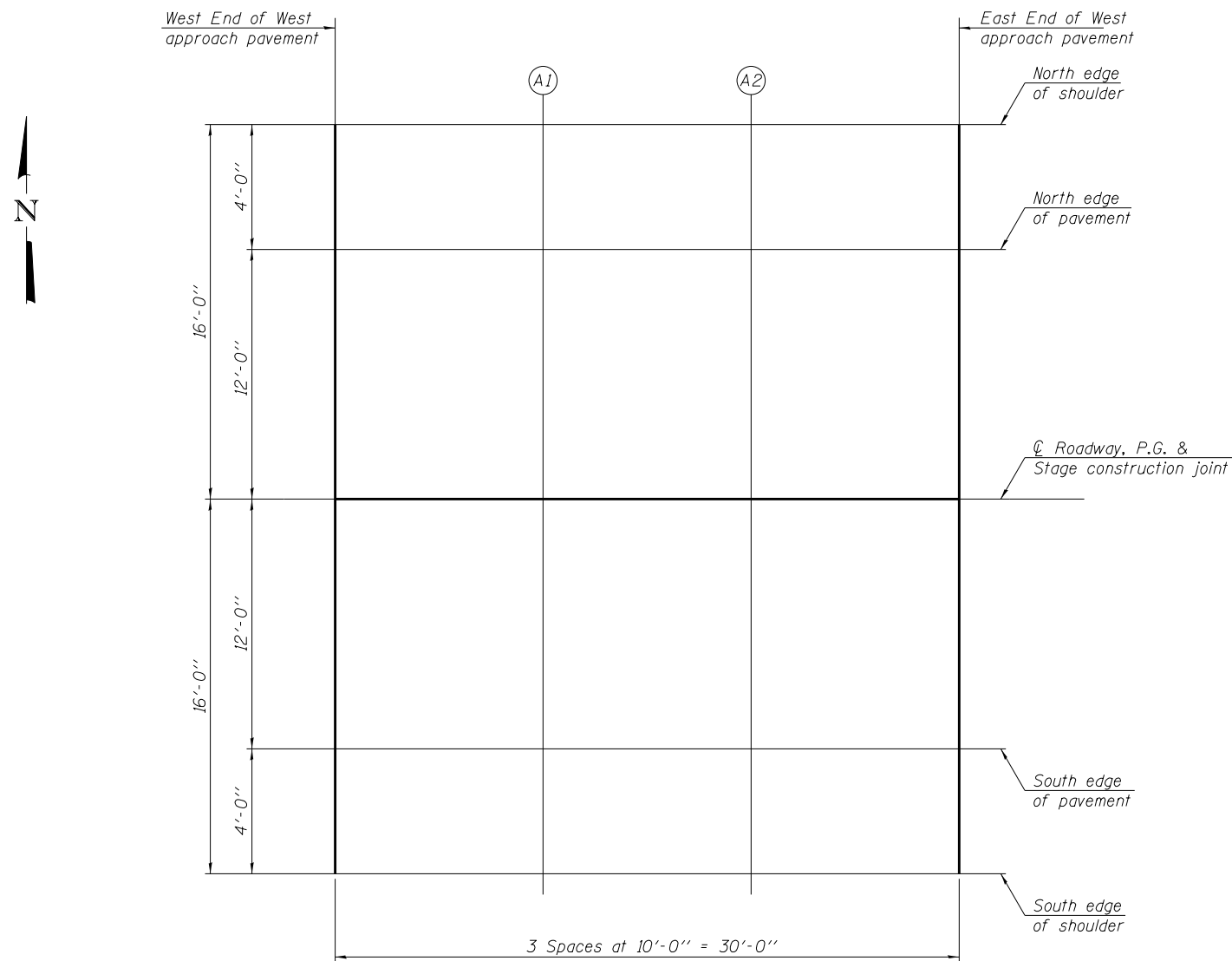
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	798+81.39	-16.00	513.52
A1	798+91.39	-16.00	513.62
A2	799+01.39	-16.00	513.72
E. End W. Appr. Pav't.	799+11.39	-16.00	513.82

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	798+81.39	-12.00	513.60
A1	798+91.39	-12.00	513.70
A2	799+01.39	-12.00	513.80
E. End W. Appr. Pav't.	799+11.39	-12.00	513.90

☉ ROADWAY, PG & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	798+81.39	0.00	513.79
A1	798+91.39	0.00	513.89
A2	799+01.39	0.00	513.99
E. End W. Appr. Pav't.	799+11.39	0.00	514.09



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	798+81.39	12.00	513.60
A1	798+91.39	12.00	513.70
A2	799+01.39	12.00	513.80
E. End W. Appr. Pav't.	799+11.39	12.00	513.90

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	798+81.39	16.00	513.52
A1	798+91.39	16.00	513.62
A2	799+01.39	16.00	513.72
E. End W. Appr. Pav't.	799+11.39	16.00	513.82

NORTH EDGE OF SHOULDER

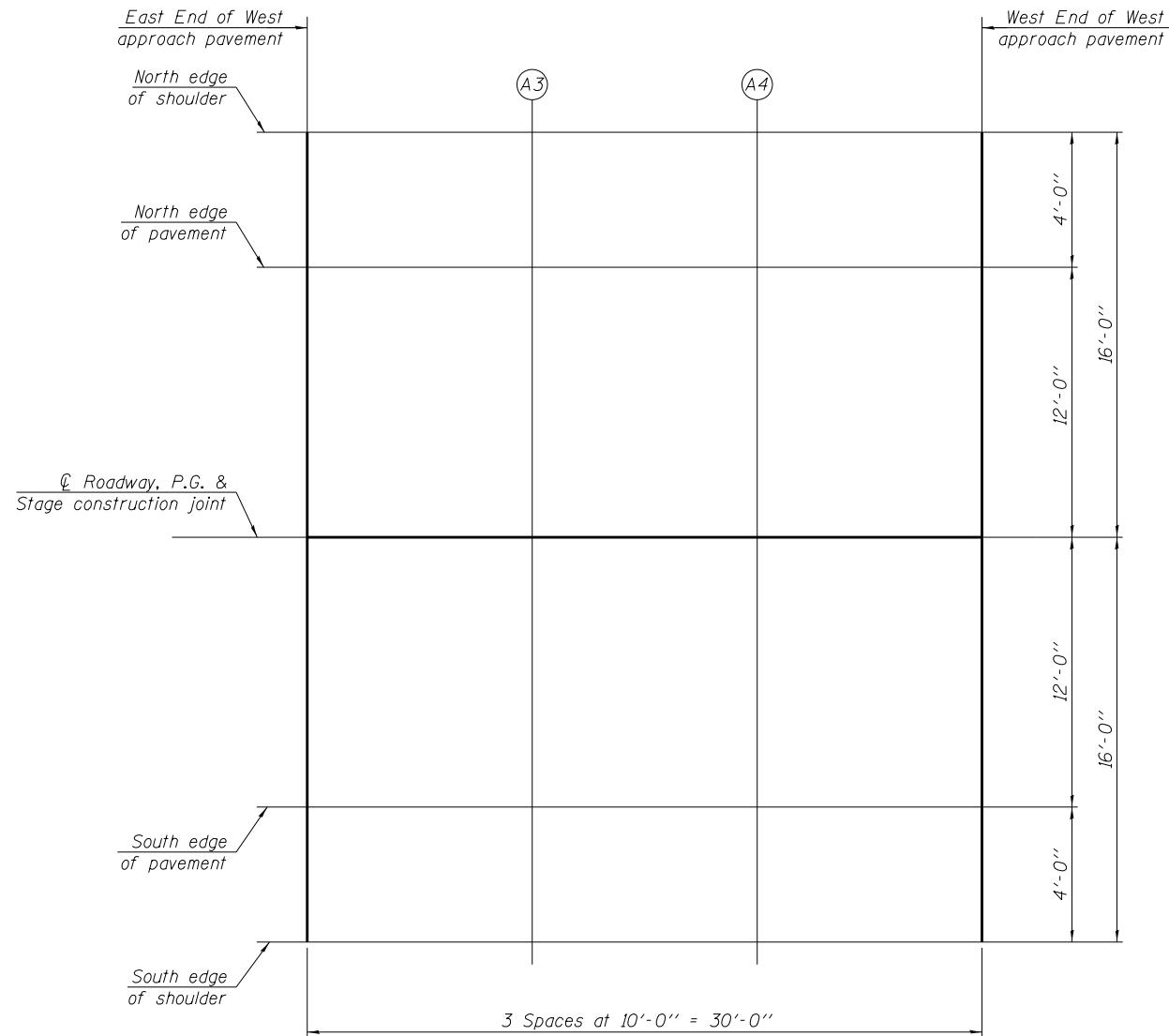
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	802+69.05	-16.00	513.82
A3	802+79.05	-16.00	513.72
A4	802+89.05	-16.00	513.62
E. End E. Appr. Pav't.	802+99.05	-16.00	513.52

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	802+69.05	-12.00	513.90
A3	802+79.05	-12.00	513.80
A4	802+89.05	-12.00	513.70
E. End E. Appr. Pav't.	802+99.05	-12.00	513.60

☉ ROADWAY, PG & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	802+69.05	0.00	514.09
A3	802+79.05	0.00	513.99
A4	802+89.05	0.00	513.89
E. End E. Appr. Pav't.	802+99.05	0.00	513.79



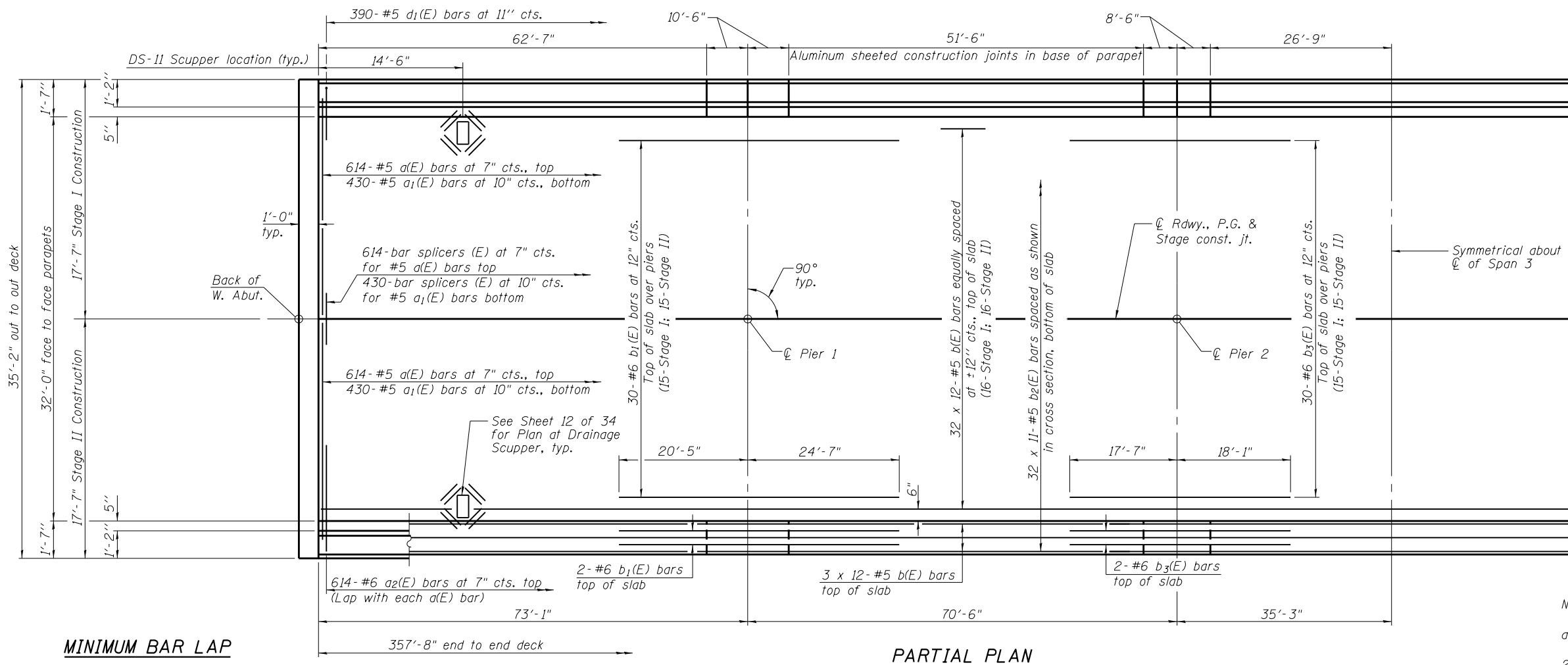
SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	802+69.05	12.00	513.90
A3	802+79.05	12.00	513.80
A4	802+89.05	12.00	513.70
E. End E. Appr. Pav't.	802+99.05	12.00	513.60

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	802+69.05	16.00	513.82
A3	802+79.05	16.00	513.72
A4	802+89.05	16.00	513.62
E. End E. Appr. Pav't.	802+99.05	16.00	513.52

PLAN

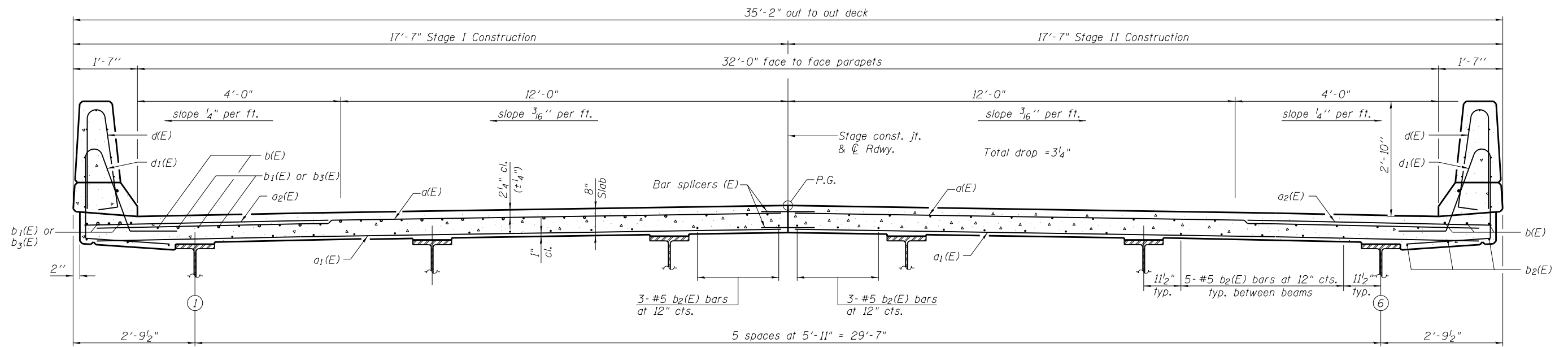


MINIMUM BAR LAP

#5 bar = 2'-7"

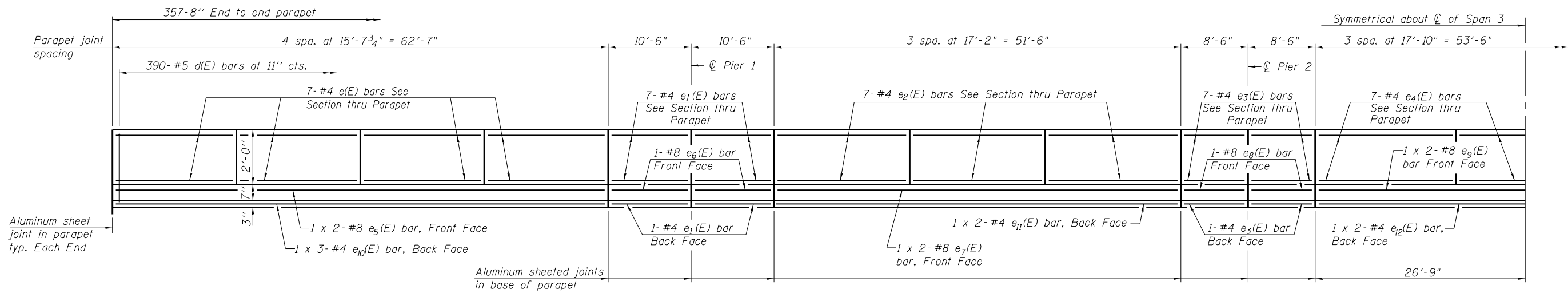
PARTIAL PLAN

Notes:
 See Sheet 12 of 34 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See Sheet 12 of 34 for parapet reinforcement.

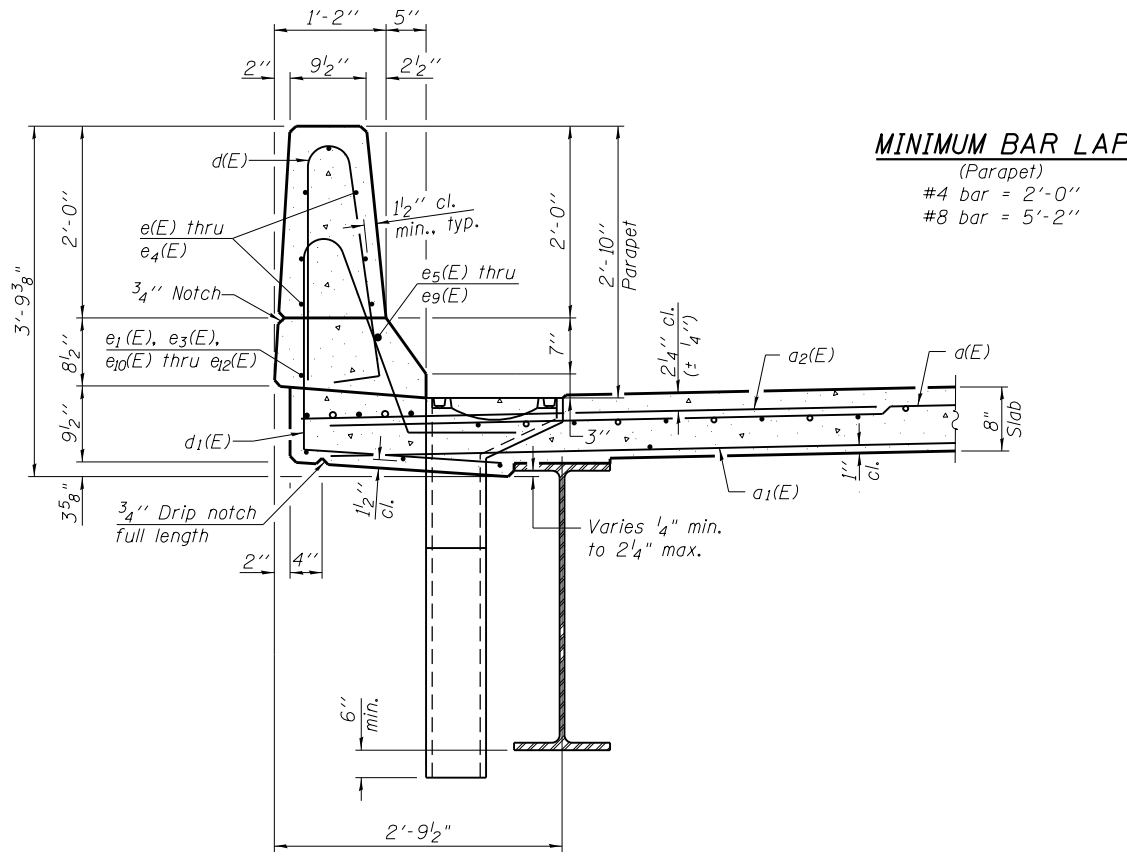


CROSS SECTION
(Looking East)

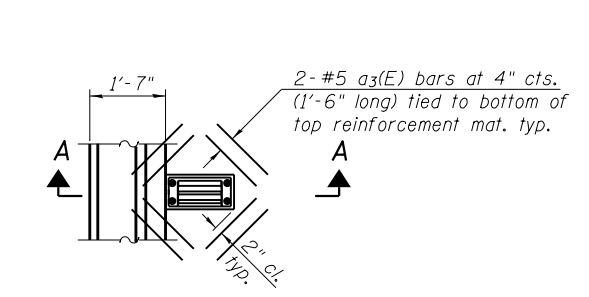
FILE NAME = 0720229-68697-011-Superstructure.dgn BFW BACON FARMER WORKMAN ENGINEERING & TESTING, INC. 433 NORTH COURT STREET MAHON, ILLINOIS 60451 PHONE: 815.997.9100	USER NAME = PLOT SCALE = PLOT DATE = 3/18/2014	DESIGNED - CMV CHECKED - BWP DRAWN - BJV CHECKED - CMV	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 072-0229 SHEET NO. 11 OF 34 SHEETS	F.A.S. R.T.E. = 1388 SECTION = (Z-1D-BR-1)BR COUNTY = PEORIA TOTAL SHEETS = 89 SHEET NO. = 53 CONTRACT NO. 68697	ILLINOIS FED. AID PROJECT



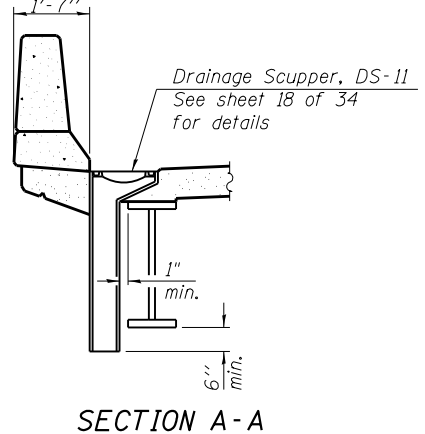
INSIDE ELEVATION OF PARAPET
(Looking north-south parapet similar)



SECTION THRU PARAPET

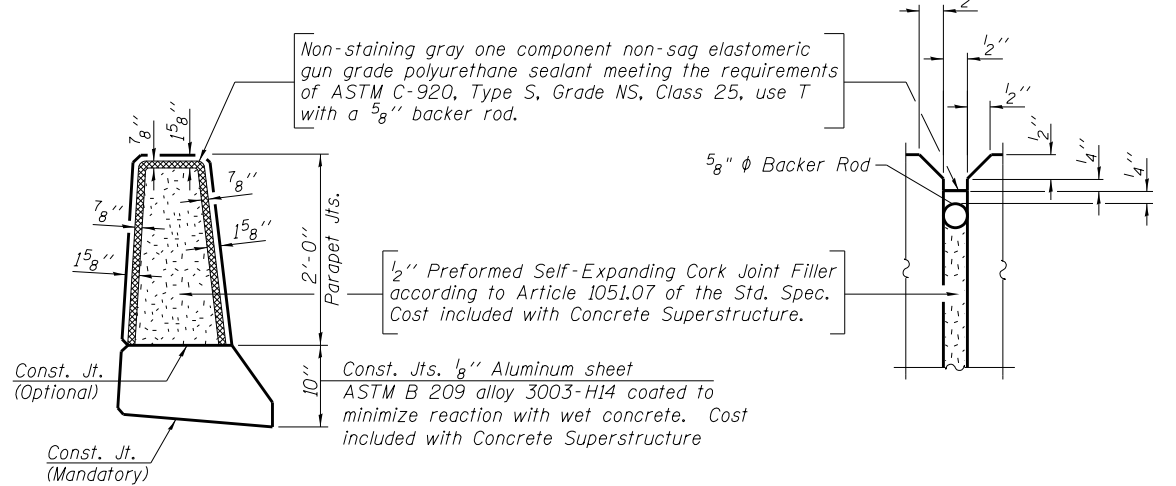


PLAN AT SCUPPER
Note: Cut longitudinal reinforcement to clear drainage scuppers.

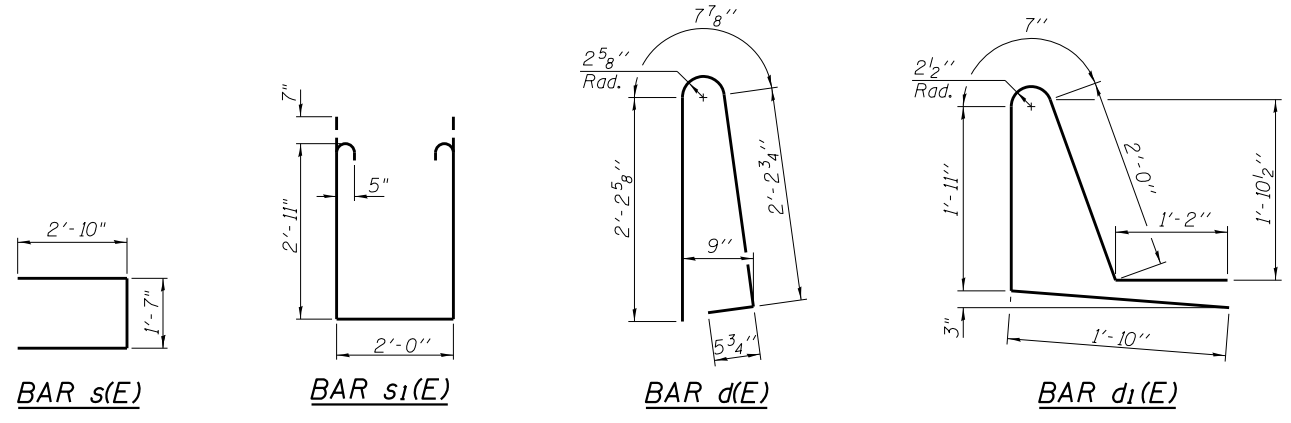


SECTION A-A

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



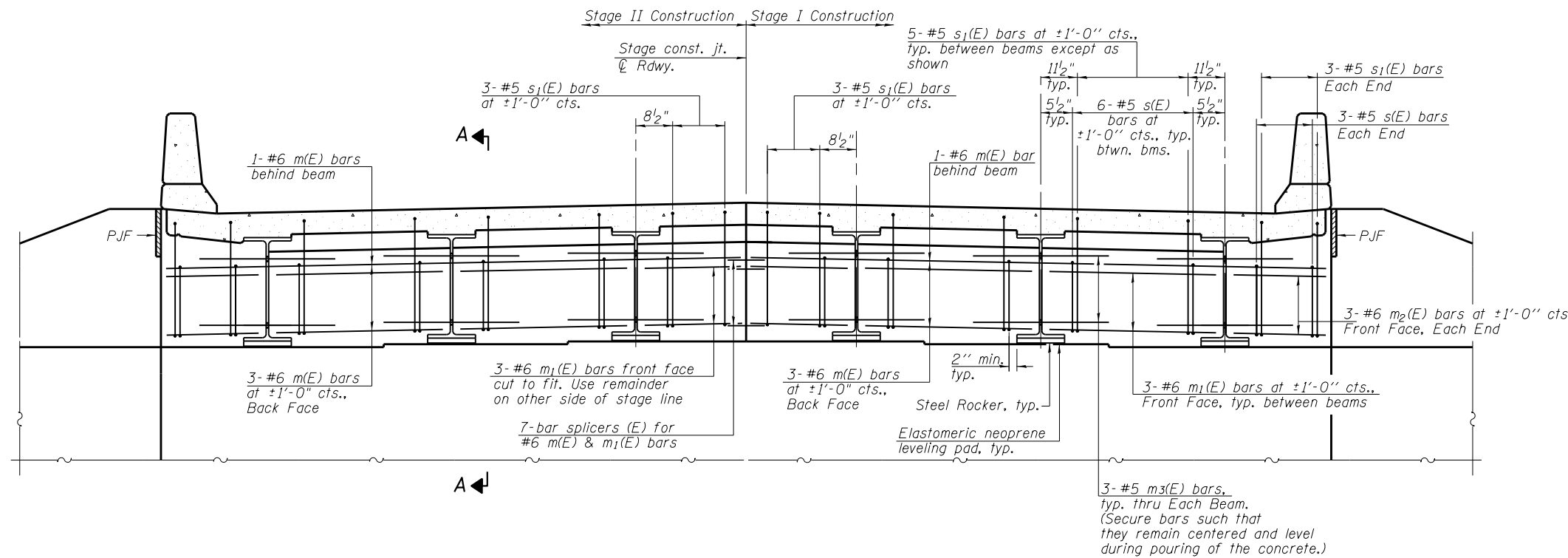
PARAPET JOINT DETAILS



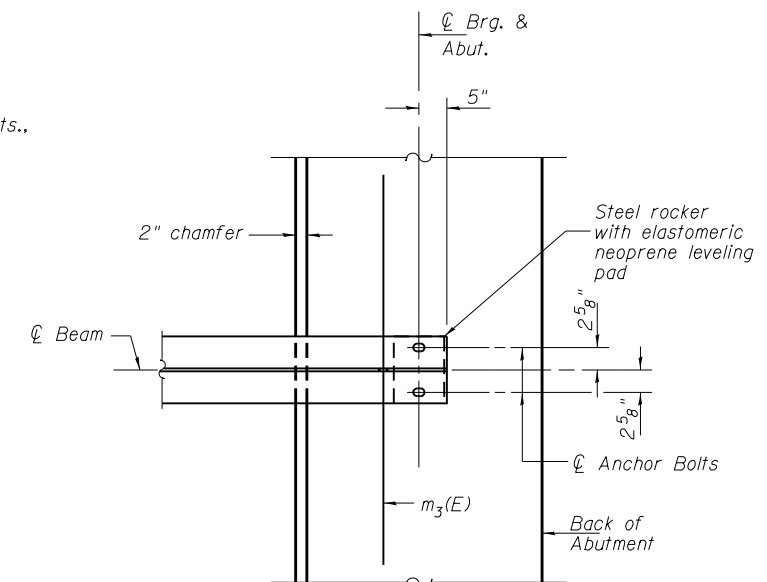
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1228	#5	17'-1"	—
a1(E)	860	#5	16'-9"	—
a2(E)	1228	#6	6'-6"	—
a3(E)	32	#5	1'-6"	—
b(E)	456	#5	32'-2"	—
b1(E)	68	#6	45'-0"	—
b2(E)	352	#5	34'-10"	—
b3(E)	68	#6	35'-8"	—
d(E)	780	#5	5'-7"	—
d1(E)	780	#5	7'-6"	—
e(E)	112	#4	15'-3"	—
e1(E)	64	#4	10'-2"	—
e2(E)	84	#4	16'-10"	—
e3(E)	64	#4	8'-2"	—
e4(E)	42	#4	17'-6"	—
e5(E)	8	#8	33'-9"	—
e6(E)	8	#8	10'-2"	—
e7(E)	8	#8	28'-3"	—
e8(E)	8	#8	8'-2"	—
e9(E)	4	#8	29'-3"	—
e10(E)	12	#4	22'-2"	—
e11(E)	8	#4	26'-9"	—
e12(E)	4	#4	27'-7"	—
m(E)	16	#6	17'-3"	—
m1(E)	30	#6	5'-7"	—
m2(E)	12	#6	2'-5"	—
m3(E)	36	#5	4'-0"	—
s(E)	72	#5	7'-3"	—
s1(E)	64	#5	9'-0"	—
Reinforcement Bars, Epoxy Coated			Pound	103,700
Concrete Superstructure			Cu. Yds.	425.9

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

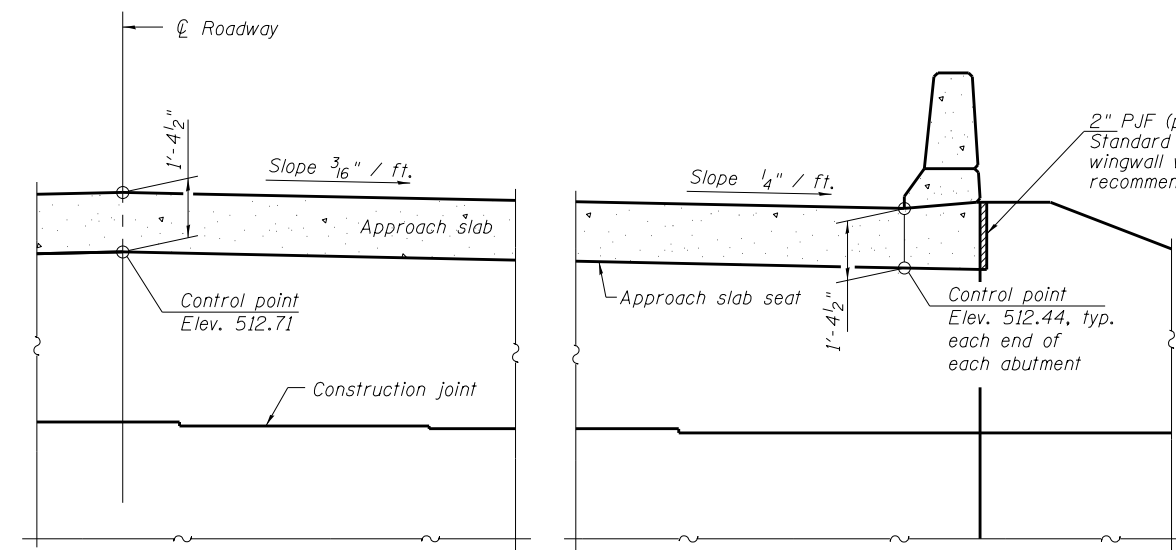


DIAPHRAGM ELEVATION AT WEST ABUTMENT
(Looking west - East abutment similar)

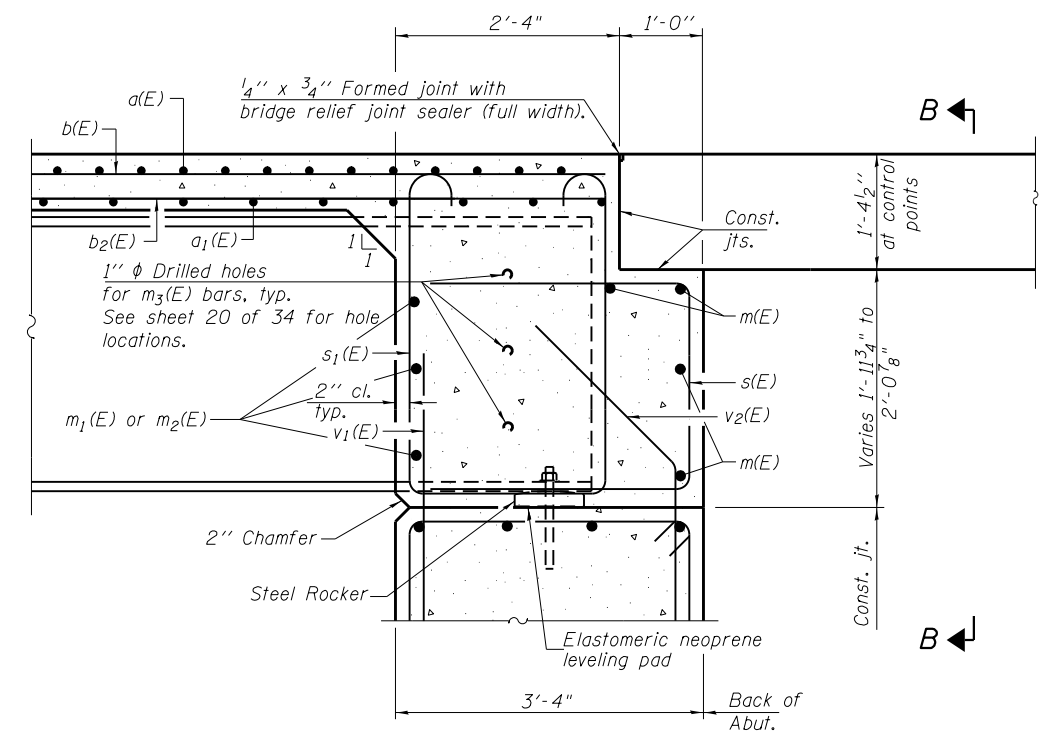


PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 34.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 34.
 For details of bars s(E) and s1(E) see sheet 12 of 34.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 20 of 34.
 For details of bar v2(E) see sheet 21 of 34.



SECTION B-B

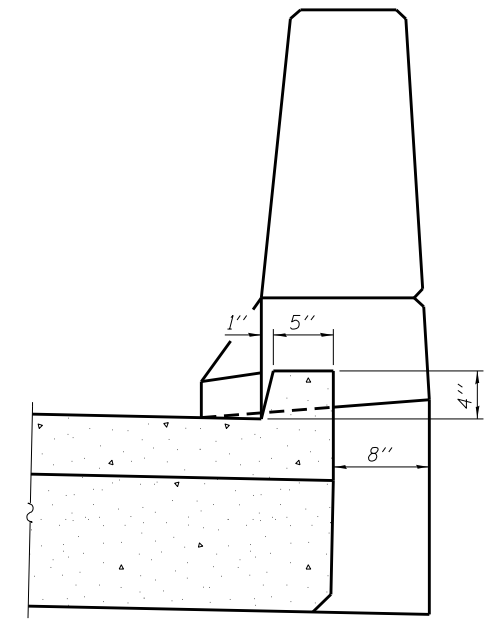
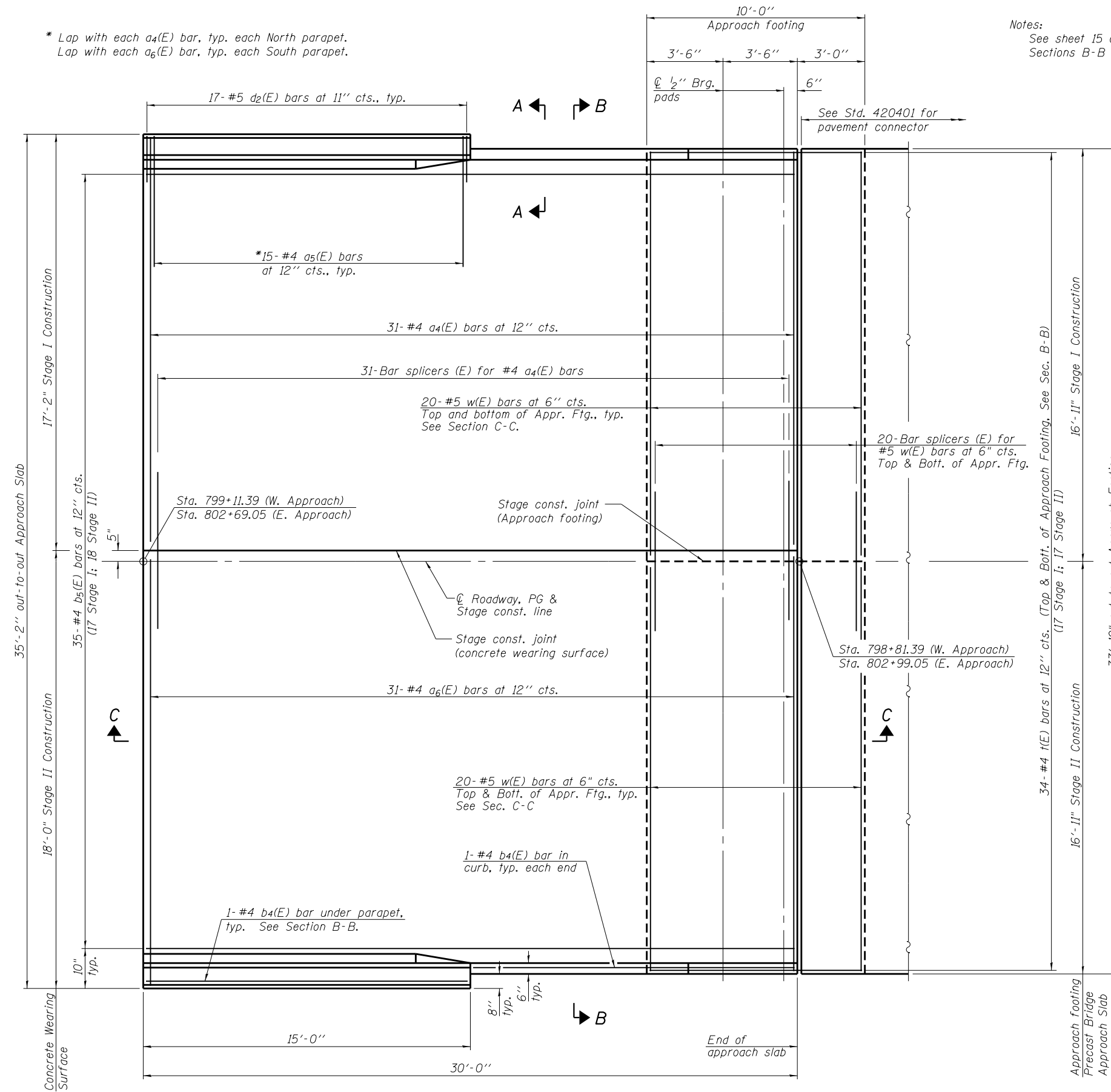


SECTION A-A

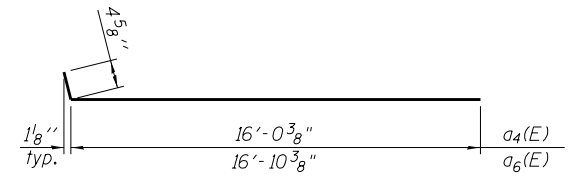
FILE NAME = 0720229-68697-013-Diaphragm Details.dgn	USER NAME =	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS STRUCTURE NO. 072-0229	F.A.S. R.E. = 1388	SECTION = (Z-1D-BR-1)BR	COUNTY = PEORIA	TOTAL SHEETS = 89	SHEET NO. = 55	
BACON FARMER WORKMAN ENGINEERING & TESTING, INC.	PLOT SCALE =	CHECKED - BWP	REVISED -			CONTRACT NO. 68697					
433 NORTH COURT STREET MARIETTA, IL 61754-0097 PHONE - 815/977-9100	PLOT DATE = 3/18/2014	DRAWN - BJV	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED - CMV	REVISED -								

* Lap with each a₄(E) bar, typ. each North parapet.
Lap with each a₆(E) bar, typ. each South parapet.

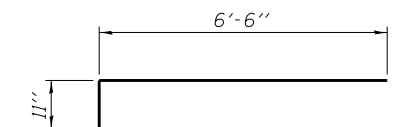
Notes:
See sheet 15 of 34 for
Sections B-B & C-C.



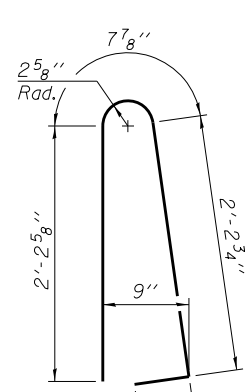
SECTION A-A



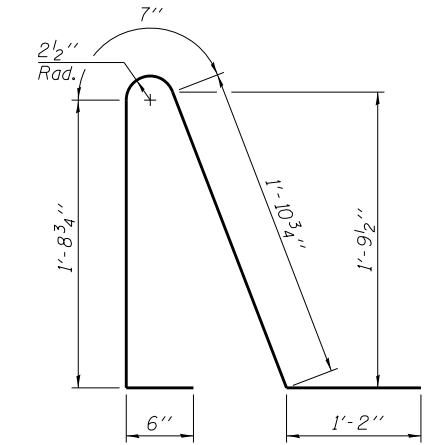
BAR a₄(E) & a₆(E)



BAR a₅(E)



BAR d(E)



BAR d₂(E)

PLAN
(Showing wearing surface. East approach shown.
West approach similar by mirror image.)

(Sheet 1 of 4)

FILE NAME = 0720229-68697-014-Prec Br Appr Slab.dgn	USER NAME =	DESIGNED - BWP	REVISED -
BACON FARMER WORKMAN ENGINEERING & TESTING, INC.		CHECKED - CMV	REVISED -
433 NORTH COURT STREET MORRIS, ILLINOIS 62450 PHONE: 618.997.9100	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 3/18/2014	CHECKED - BWP	REVISED -

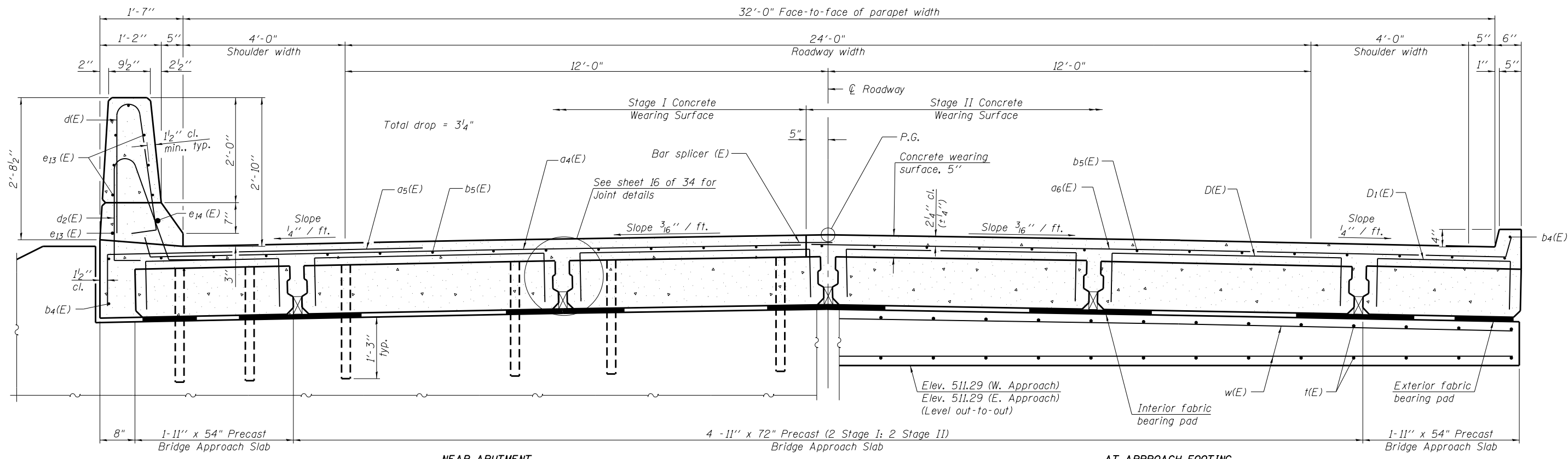
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 072-0229

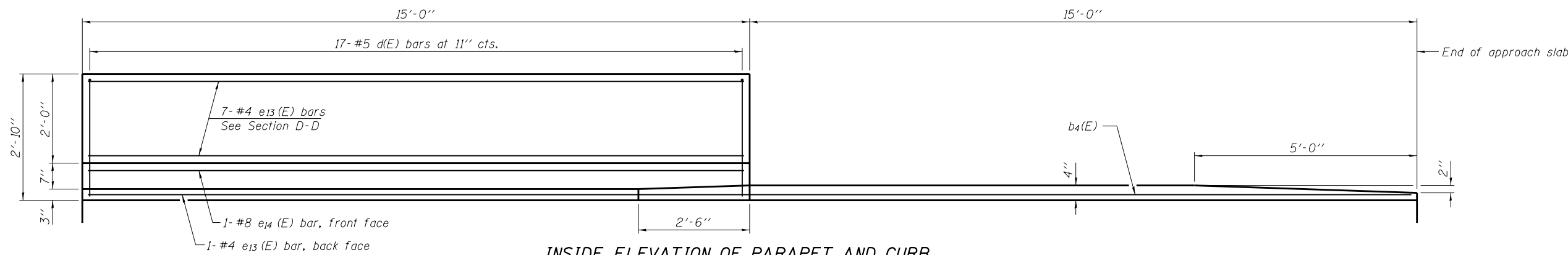
SHEET NO. 14 OF 34 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	56
CONTRACT NO. 68697				

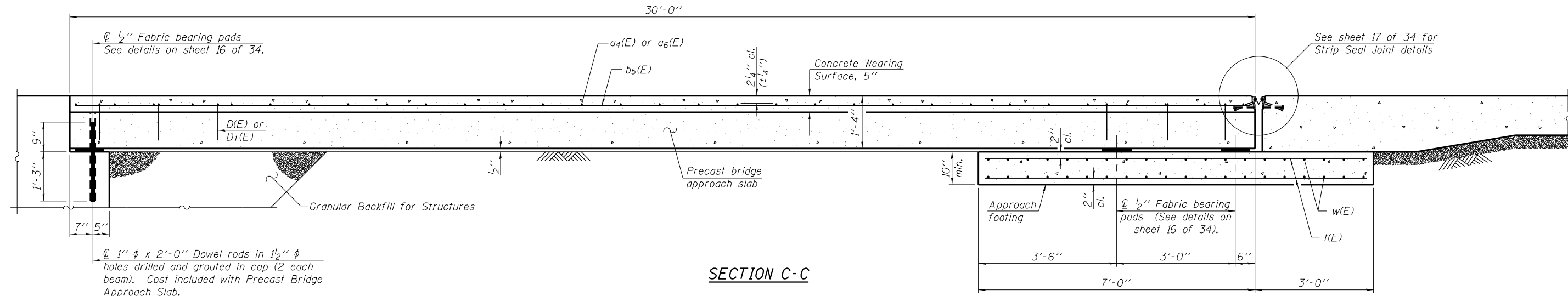
ILLINOIS FED. AID PROJECT



SECTION B-B



INSIDE ELEVATION OF PARAPET AND CURB



SECTION C-C

(Sheet 2 of 4)

FILE NAME = 0720229-68697-015-Prec Br Appr Slab.dgn
 BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 433 NORTH COURT STREET
 MADEIRA, ILLINOIS 60138
 PHONE: 630.977.9100

USER NAME =
 DESIGNED - BWP
 CHECKED - CMV
 PLOT SCALE =
 DRAWN - BJV
 CHECKED - BWP
 PLOT DATE = 3/18/2014

DESIGNED - BWP
 CHECKED - CMV
 DRAWN - BJV
 CHECKED - BWP
 REVISED -
 REVISED -
 REVISED -
 REVISED -

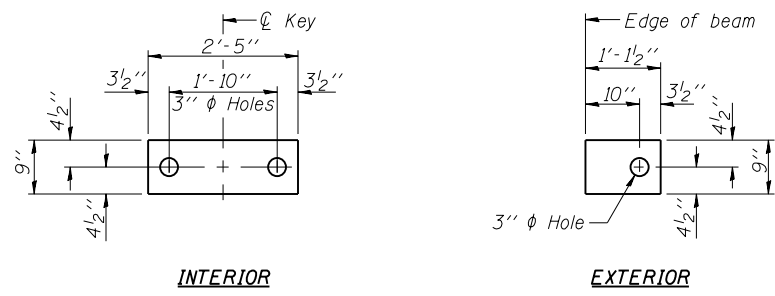
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PRECAST BRIDGE APPROACH SLAB
 STRUCTURE NO. 072-0229**

SHEET NO. 15 OF 34 SHEETS

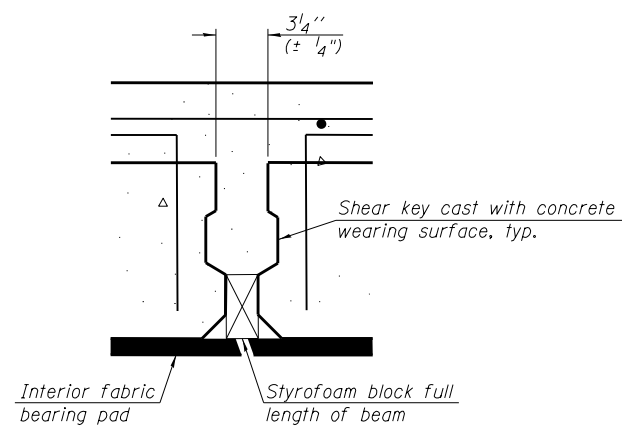
F.A.S. RTE. 1388	SECTION (Z-1D-BR-1)BR	COUNTY PEORIA	TOTAL SHEETS 89	SHEET NO. 57
CONTRACT NO. 68697				

ILLINOIS FED. AID PROJECT

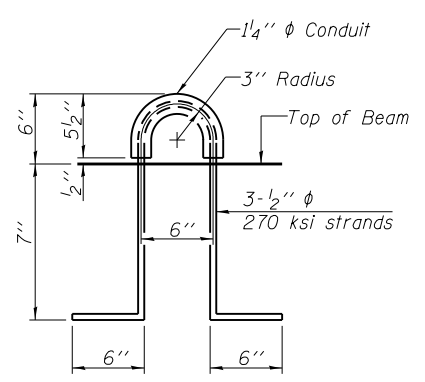


FABRIC BEARING PAD

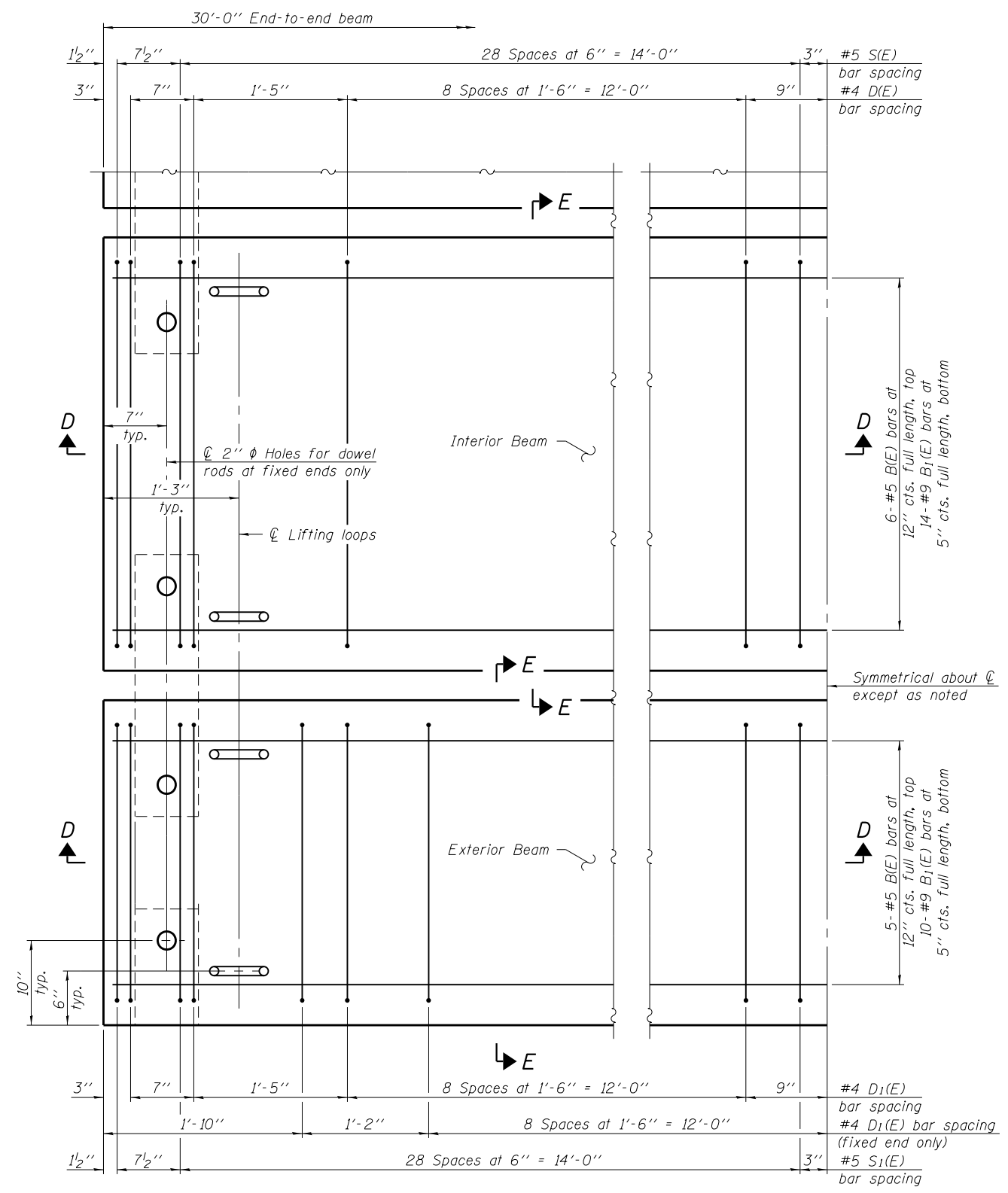
Notes:
 All bearing pads shall be 1/2" thick.
 Omit holes for fabric bearing pads at approach slab footing end of beams.
 Expansion bearing pad shall be bonded to the approach slab footing.



SECTION THRU SHEAR KEY JOINT



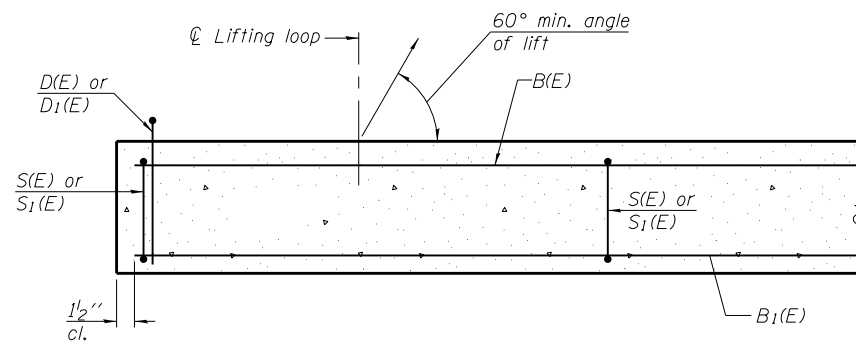
LIFTING LOOP DETAIL



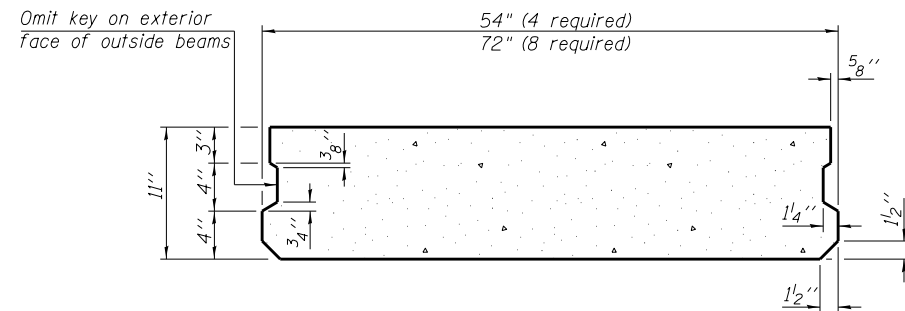
PLAN

(Sheet 3 of 4)

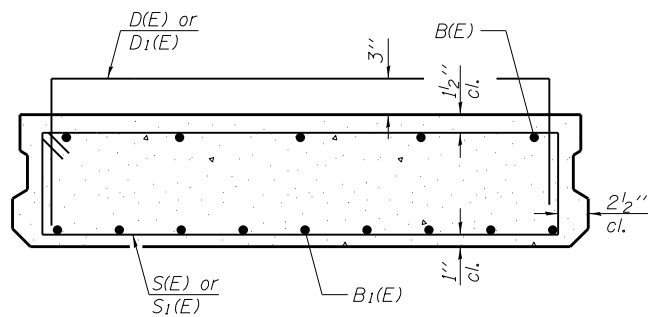
FILE NAME = 0720229-68697-016-Prec Br Appr Slab.dgn	USER NAME =	DESIGNED - BWP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST BRIDGE APPROACH SLAB STRUCTURE NO. 072-0229	F.A.S. RT.E. = 1388	SECTION = (Z-1D-BR-1)BR	COUNTY = PEORIA	TOTAL SHEETS = 89	SHEET NO. = 58	
BACON FARMER WORKMAN ENGINEERING & TESTING, INC.	PLOT SCALE =	CHECKED - CMV	REVISED -			CONTRACT NO. 68697					
433 NORTH COURT STREET MARIETTA, IL 62450-0099 PHONE: 618.997.9100	PLOT DATE = 3/18/2014	DRAWN - BJV	REVISED -			SHEET NO. 16 OF 34 SHEETS					
		CHECKED - BWP	REVISED -			ILLINOIS FED. AID PROJECT					



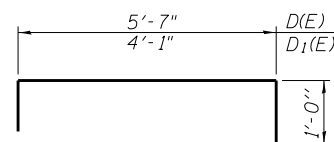
SECTION D-D



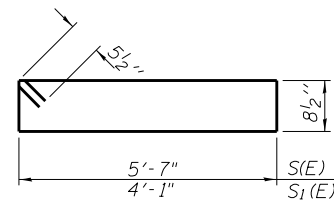
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(Showing dimensions)



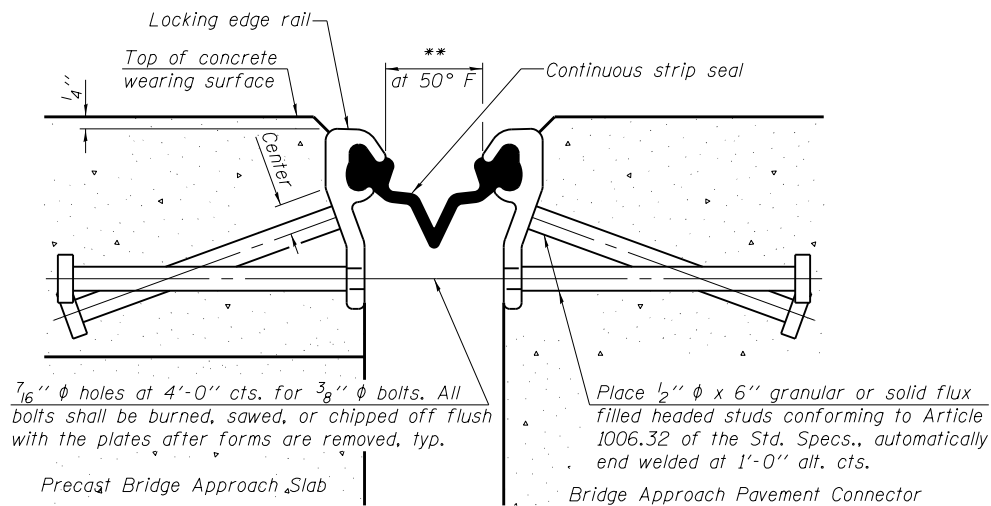
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(Showing reinforcement)



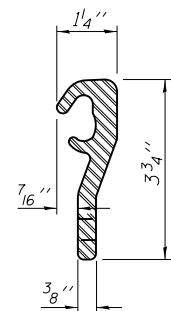
BARS D(E) & D1(E)



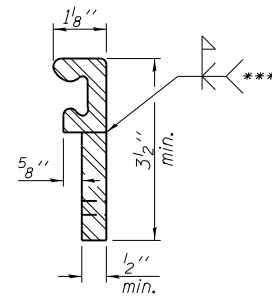
BARS S(E) & S1(E)



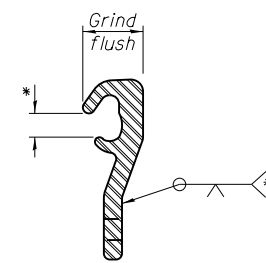
SECTION THRU STRIP
SEAL JOINT
(at rt. angles)



ROLLED
(EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE
RAIL SPLICE

Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

* Omit weld at seal opening.

** The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 1/2" for installation purposes.

*** Back gouge not required if complete joint penetration is verified by mock-up.

BAR LIST
EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	14	#9	29'-8"	—
D(E)	22	#4	7'-7"	┌
S(E)	58	#5	13'-6"	▣

BAR LIST
EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	5	#5	29'-8"	—
B1(E)	10	#9	29'-8"	—
D1(E)	31	#4	6'-1"	┌
S1(E)	58	#5	10'-6"	▣

Notes:

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed. Parapet concrete shall be paid for as Concrete Superstructure. Parapet and wearing surface reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

Approach footing concrete shall be paid for as Concrete Structures.

The top surface of precast bridge approach slabs shall be roughened to a depth of 1/4" according to the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."

After precast bridge approach slab has been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and allowed to cure fully prior to placement of the Concrete Wearing Surface, 5".

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.

A minimum 2 1/2" diameter lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi. For additional parapet details, see sheet 15 of 34.

Any concrete poured monolithically with the wearing surface, such as curbs, will not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The strip seal shall extend 6" beyond the edge of the approach slab on each end. The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

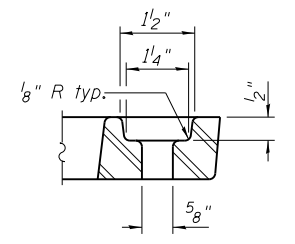
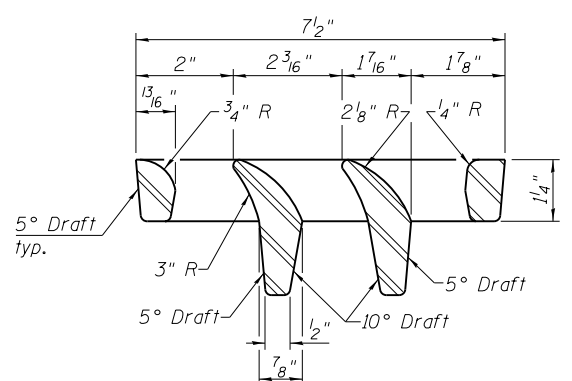
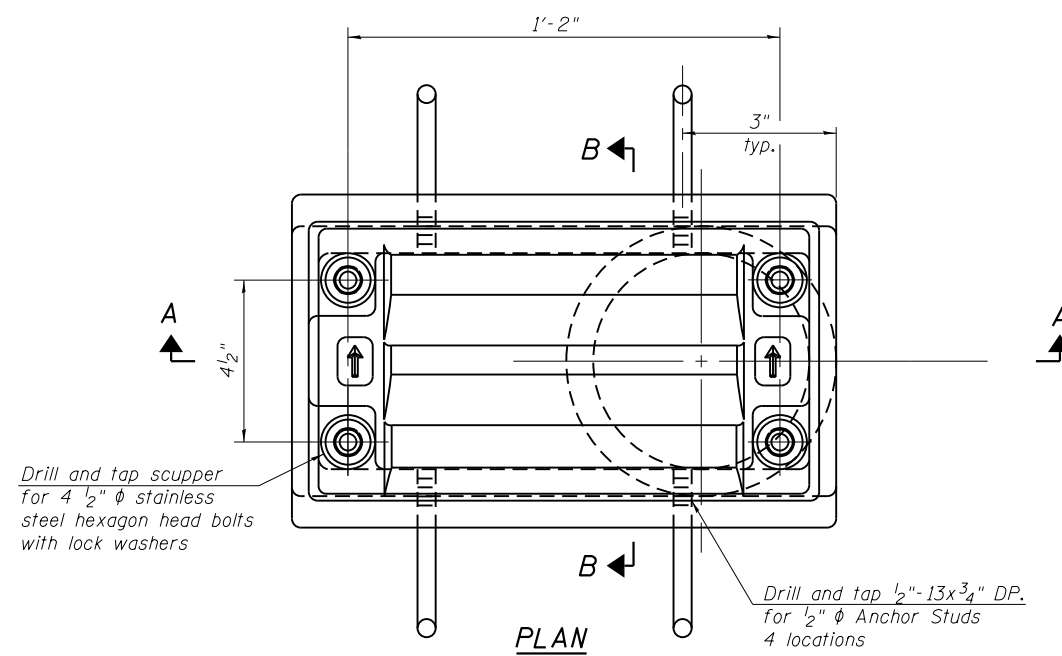
The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	62	#4	16'-5"	┌
a5(E)	60	#4	7'-5"	┌
a6(E)	62	#4	17'-3"	┌
b4(E)	8	#4	14'-8"	—
b5(E)	70	#4	29'-8"	—
d(E)	68	#5	5'-7"	┌
d2(E)	68	#5	5'-11"	┌
e13(E)	32	#4	14'-8"	—
e14(E)	4	#8	14'-8"	—
t(E)	136	#4	9'-8"	—
w(E)	160	#5	16'-7"	—
Concrete Superstructure			Cu. Yd.	6.6
Concrete Structures			Cu. Yd.	24.6
Reinforcement Bars, Epoxy Coated			Pound	8,090
Precast Bridge Approach Slab			Sq. Ft.	1,980
Concrete Wearing Surface, 5"			Sq. Yd.	230
Preformed Joint Strip Seal			Foot	68

(Sheet 4 of 4)



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

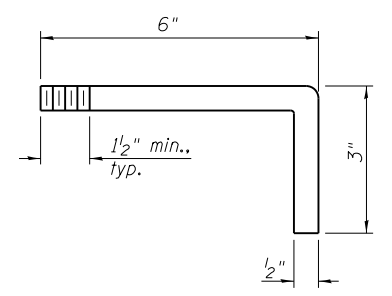
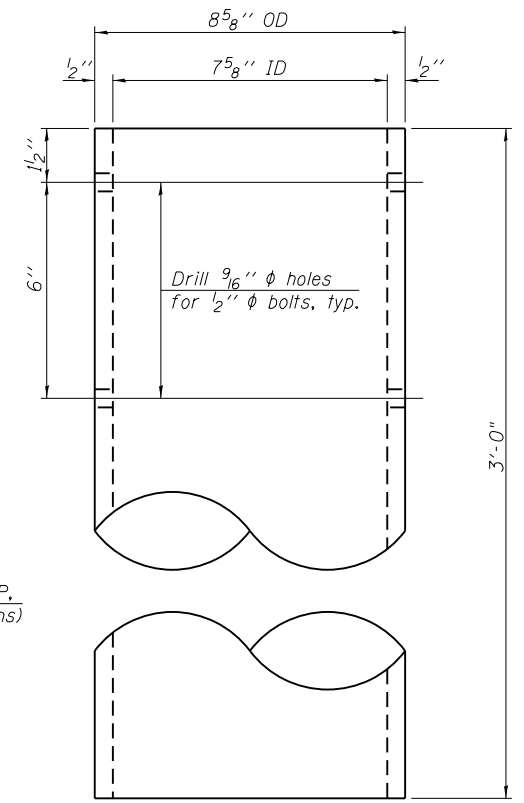
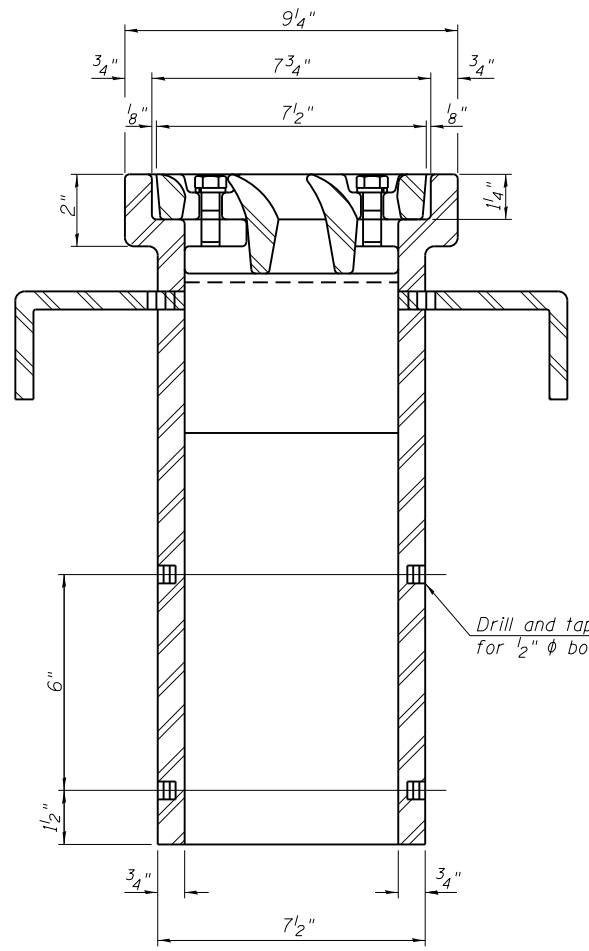
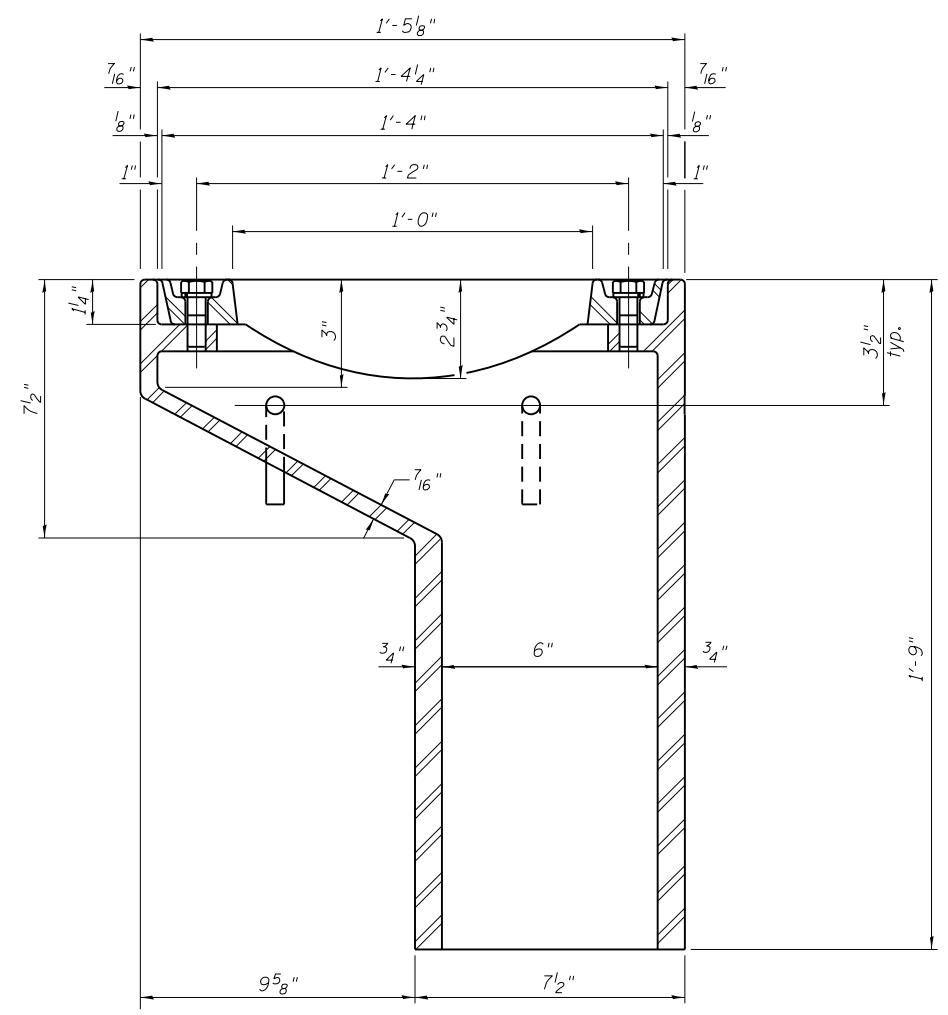
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



SECTION A-A
See sheet 12 of 34 for scupper location relative to parapet.

SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DS-11

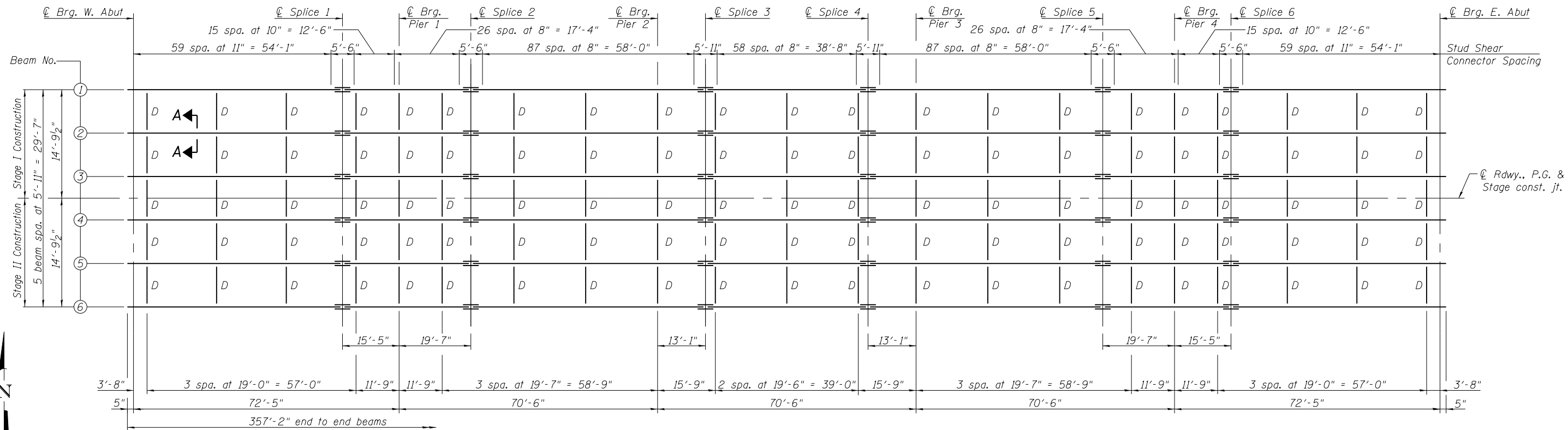
7-1-10

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BACON FARMER WORKMAN ENGINEERING & TESTING, INC.		CHECKED - CMV	REVISED -
433 NORTH COURT STREET MARIETTA, IL 60138 PHONE: 815.997.9100	PLOT SCALE =	DRAWN - BWP	REVISED -
	PLOT DATE = 3/18/2014	CHECKED - CMV	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

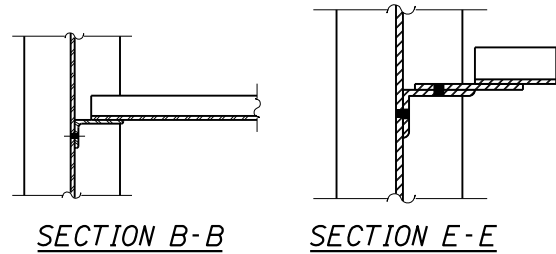
DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 072-0229
SHEET NO. 18 OF 34 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68697				
ILLINOIS FED. AID PROJECT				

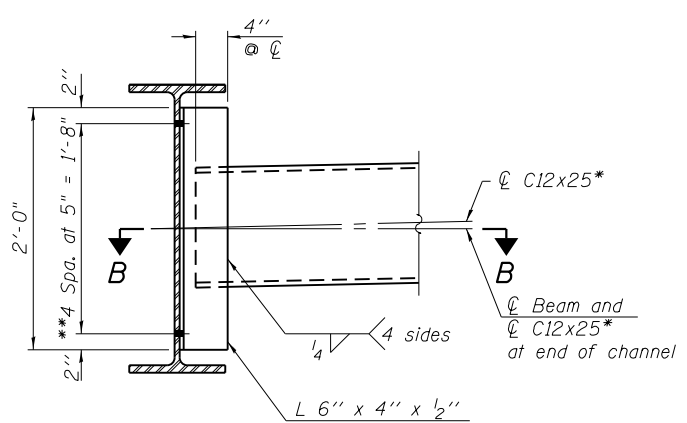


PLAN

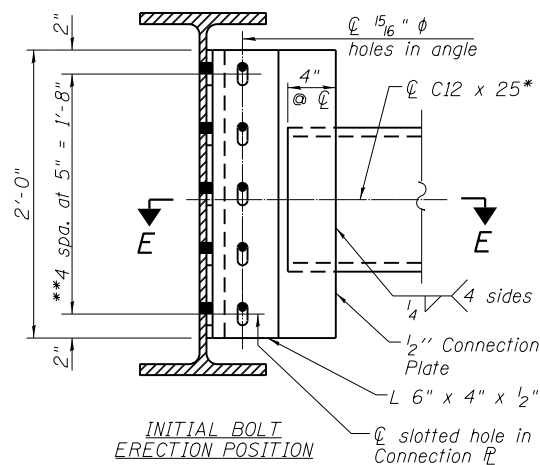
All beams are W30x124, AASHTO M270 Grade 50 (NTR).



SECTION B-B **SECTION E-E**

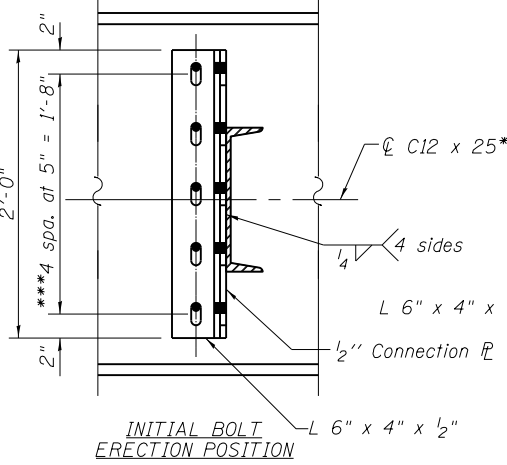


DIAPHRAGM D



INITIAL BOLT ERECTION POSITION

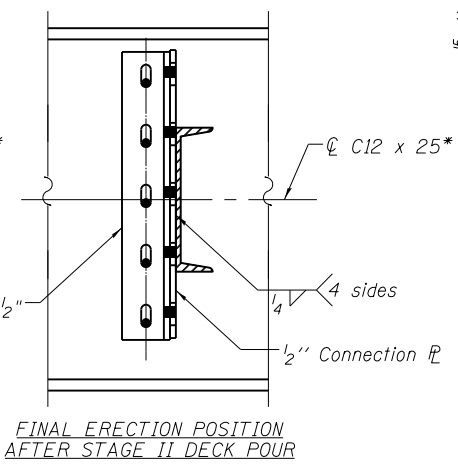
Note:
 Two hardened washers required for each set of oversized holes.
 *Alternate channel C12x30 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
 ***3/4" φ HS bolts, 15/16" φ holes



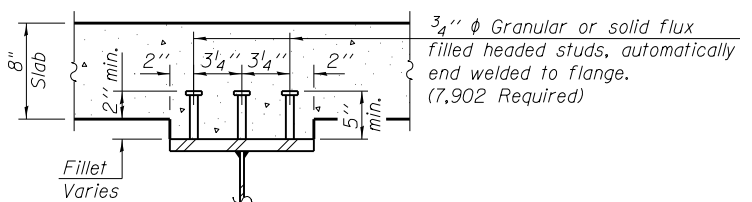
INITIAL BOLT ERECTION POSITION

DIAPHRAGM D
(North Side Beam 4)

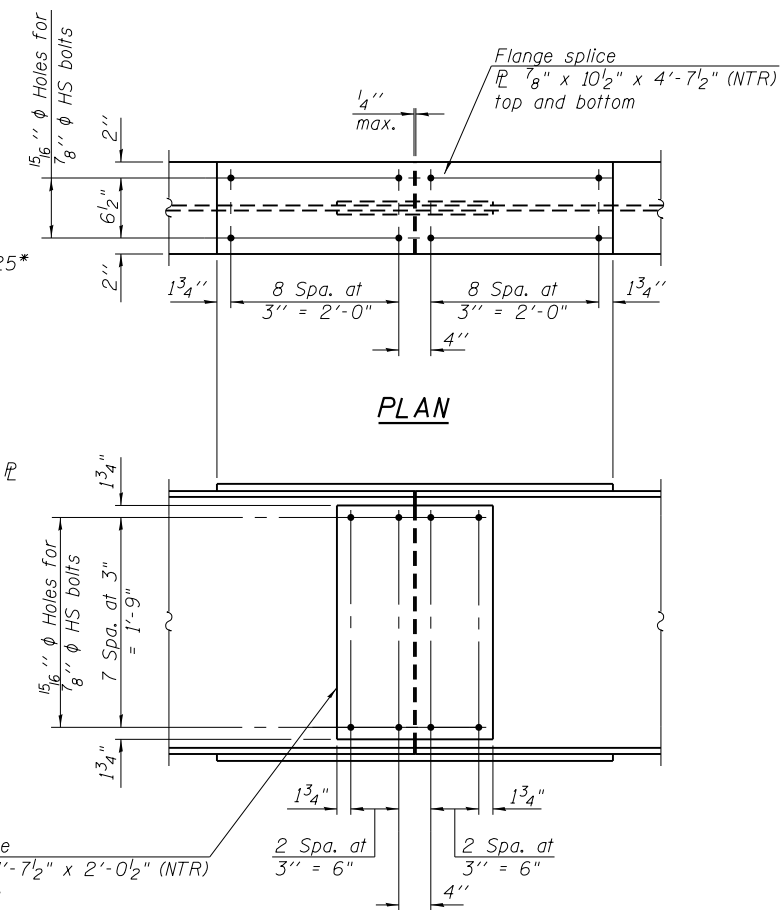
***3/4" φ HS bolts, on the North side of Beam 4 provide 13/16" x 1 7/8" vertical slotted holes in the angle at the web and in the connection plate. Bolts in slotted holes shall be finger tightened until the second stage pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the angle and connection plate shall be positioned as shown to allow the bolts to move to the final erection positions under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the girders.



FINAL ERECTION POSITION AFTER STAGE II DECK POUR



SECTION A-A



PLAN

ELEVATION

SPlice DETAIL

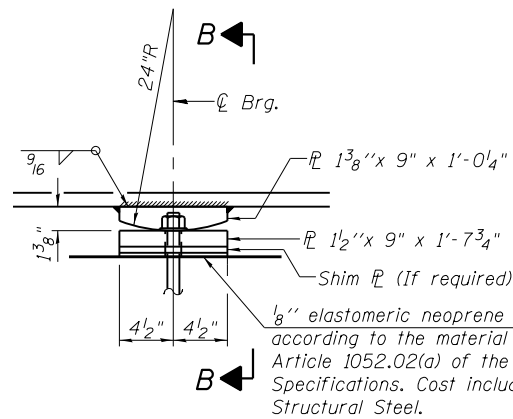
(36 Required)

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

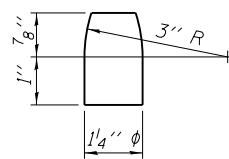
All web and flange splice plates shall be AASHTO M270, Grade 50.

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BACON FARMER WORKMAN ENGINEERING & TESTING, INC.	PLOT SCALE =	CHECKED - CMV	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	61	
433 NORTH COURT STREET MARIETTA, IL 61759-0097 PHONE - 815/977-9190	PLOT DATE = 3/18/2014	DRAWN - BJV	REVISED -			CONTRACT NO. 68697					
		CHECKED - BWP	REVISED -			ILLINOIS FED. AID PROJECT					

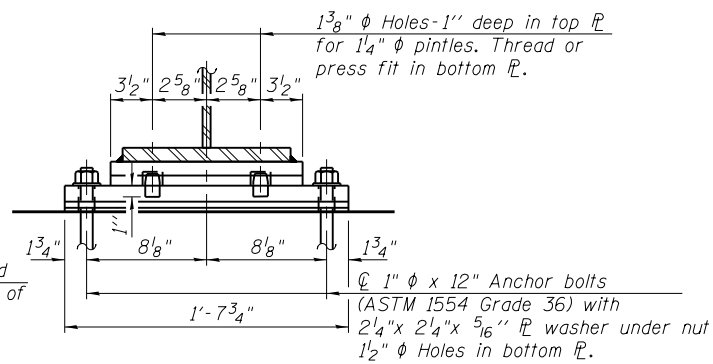


ELEVATION AT PIER

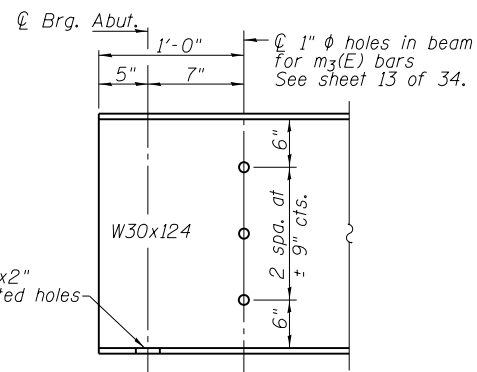
FIXED BEARING



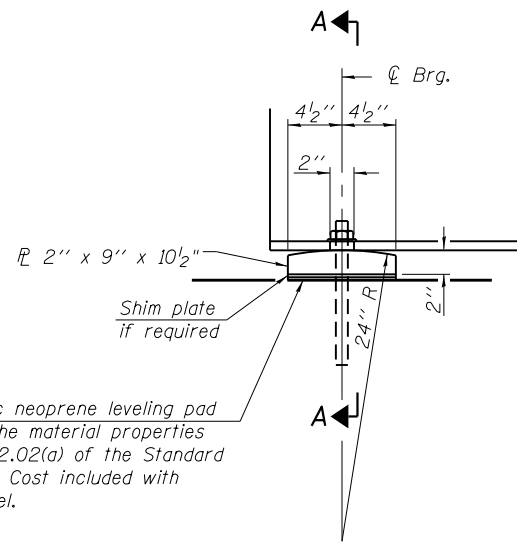
PINTLE



SECTION B-B



TYP. END OF BEAM ELEVATION



ELEVATION AT ABUTMENT

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

1 3/8" x 2" slotted hole in flange.
1 1/2" diameter holes in bearing plate.

SECTION A-A

EXTERIOR GIRDER MOMENT TABLE						
		0.4 Sp. 1 or 0.6 Sp. 5	Pier 1 or Pier 4	0.5 Sp. 2 or Sp. 4	Pier 2 or Pier 3	0.5 Sp. 3
I_s	(in ⁴)	5360	5360	5360	5360	5360
$I_c(n)$	(in ⁴)	13933	13933	13933	13933	13933
$I_c(3n)$	(in ⁴)	10157	10157	10157	10157	10157
$I_c(cr)$	(in ⁴)	-----	7204	-----	7204	-----
S_s	(in ³)	355	355	355	355	355
$S_c(n)$	(in ³)	517	1238	517	1238	517
$S_c(3n)$	(in ³)	465	620	465	620	465
$S_c(cr)$	(in ³)	-----	405	-----	405	-----
DC1	(k/')	0.779	0.779	0.779	0.779	0.779
M _{DC1}	(k)	32.3	419	12.5	300	184
DC2	(k/')	0.15	0.15	0.15	0.15	0.15
M _{DC2}	(k)	62	81	23	58	35
DW	(k/')	0.267	0.267	0.267	0.267	0.267
M _{DW}	(k)	110	145	42	104	62
M _{4 + 1M}	(k)	733	678	571	588	575
M _u (Strength I)	(k)	1929	2029	1247	1633	1373
$\phi_r M_n$	(k)	2526.4	2109.2	2576.7	1924.5	2576.7
f_s DC1	(ksi)	10.9	14.2	4.2	10.1	6.2
f_s DC2	(ksi)	1.6	2.4	0.6	1.7	0.9
f_s DW	(ksi)	2.8	4.3	1.1	3.1	1.6
f_s (4+1M)	(ksi)	17.0	20.1	13.3	17.4	13.4
f_s (Service II)	(ksi)	37.5	47.0	23.1	37.6	26.1
0.95R _n F _{yr}	(ksi)	47.5	47.5	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-----	-----	-----	-----	-----
$\phi_r F_n$	(ksi)	-----	-----	-----	-----	-----
V _r	(k)	21.2	-----	22.3	-----	22.3

INTERIOR GIRDER REACTION TABLE				
	Abut.	Piers 1 & 4	Piers 2 & 3	
R _{DC1}	(k)	22.3	60.8	51.3
R _{DC2}	(k)	4.3	12.2	10.3
R _{DW}	(k)	7.7	21.7	18.2
R _{4 + 1M}	(k)	67.1	99.6	96.3
R _{Total}	(k)	101.4	194.3	176.1

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All bearing plates and pintles shall be AASHTO M270 Grade 50.

*TOP OF BEAM ELEVATIONS

Location	Cent. Brg. W. Abut.	Cent. Splice 1	Cent. Brg. Pier 1	Cent. Splice 2	Cent. Brg. Pier 2	Cent. Splice 3	Cent. Splice 4	Cent. Brg. Pier 3	Cent. Splice 5	Cent. Brg. Pier 4	Cent. Splice 6	Cent. Brg. E. Abut.
Beam 1	513.14	513.62	513.70	513.79	513.97	514.02	514.02	513.97	513.79	513.70	513.62	513.14
Beam 2	513.24	513.73	513.81	513.90	514.08	514.12	514.12	514.08	513.90	513.81	513.73	513.24
Beam 3	513.34	513.82	513.90	513.99	514.17	514.22	514.22	514.17	513.99	513.90	513.82	513.34
Beam 4	513.34	513.82	513.90	513.99	514.17	514.22	514.22	514.17	513.99	513.90	513.82	513.34
Beam 5	513.24	513.73	513.81	513.90	514.08	514.12	514.12	514.08	513.90	513.81	513.73	513.24
Beam 6	513.14	513.62	513.70	513.79	513.97	514.02	514.02	513.97	513.79	513.70	513.62	513.14

*For fabrication use only.

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{4 + 1M}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{4 + 1M}
- $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.
- f_s (4+1M): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{4 + 1M} / S_{c(n)} or M_{4 + 1M} / S_{c(cr)} as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(4 + 1M)$
- 0.95R_nF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_{s(4 + 1M)}
- $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- V_r: Maximum factored shear range in span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1" diameter	Each	72

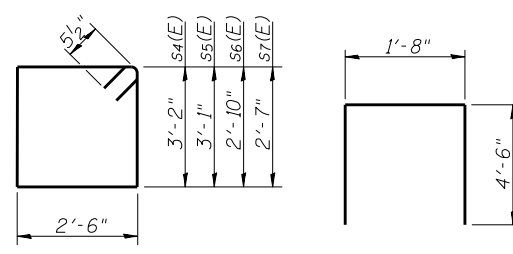
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433 NORTH COURT STREET MARENA, ILLINOIS 62957 PHONE - 618.977.9190	PLOT DATE = 3/18/2014	DRAWN - BJV	REVISED -
		CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIXED BEARING DETAILS
STRUCTURE NO. 072-0229

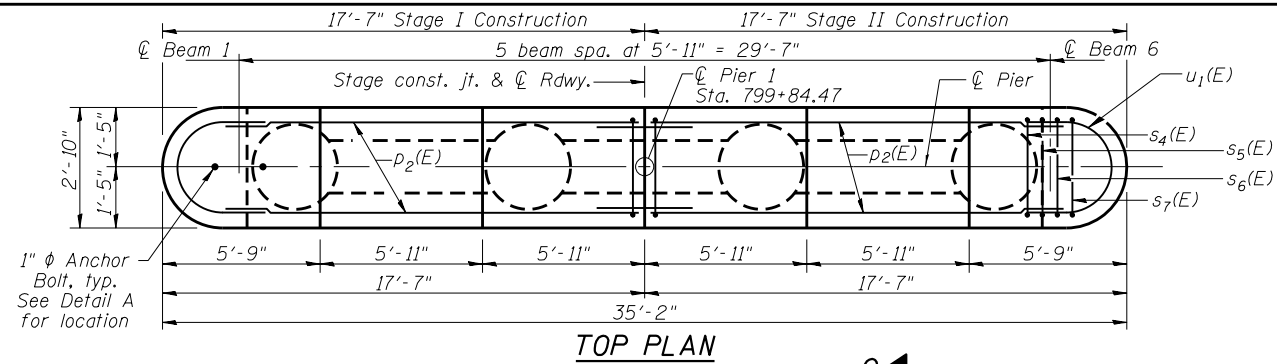
SHEET NO. 20 OF 34 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68697				
ILLINOIS FED. AID PROJECT				

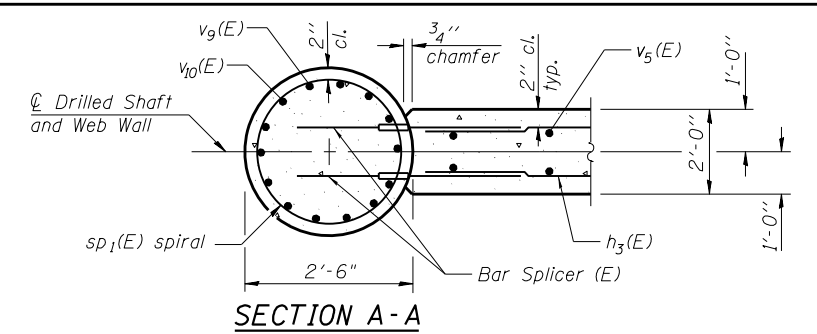


BAR $s_4(E)$, $s_5(E)$, $s_6(E)$ & $s_7(E)$
BAR $s_8(E)$

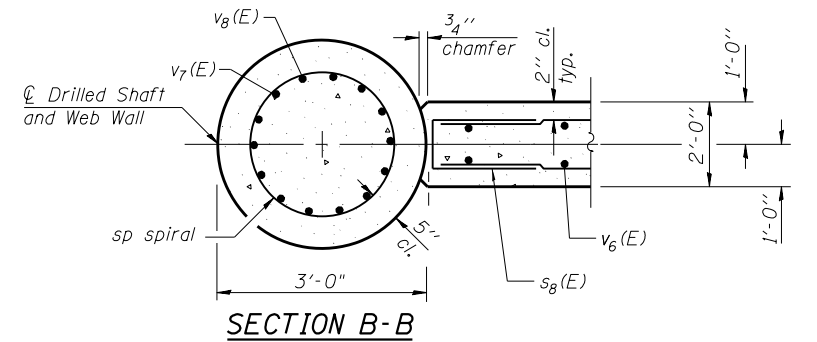
Note: When splicing of spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
Center web wall shall be constructed during Stage II Construction.



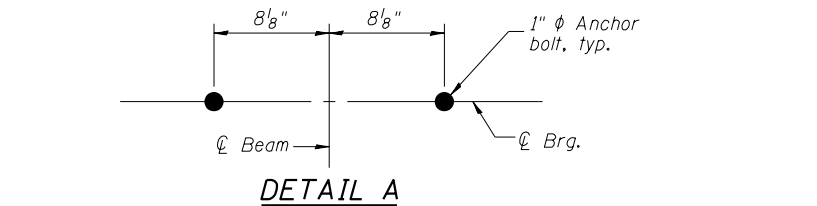
TOP PLAN



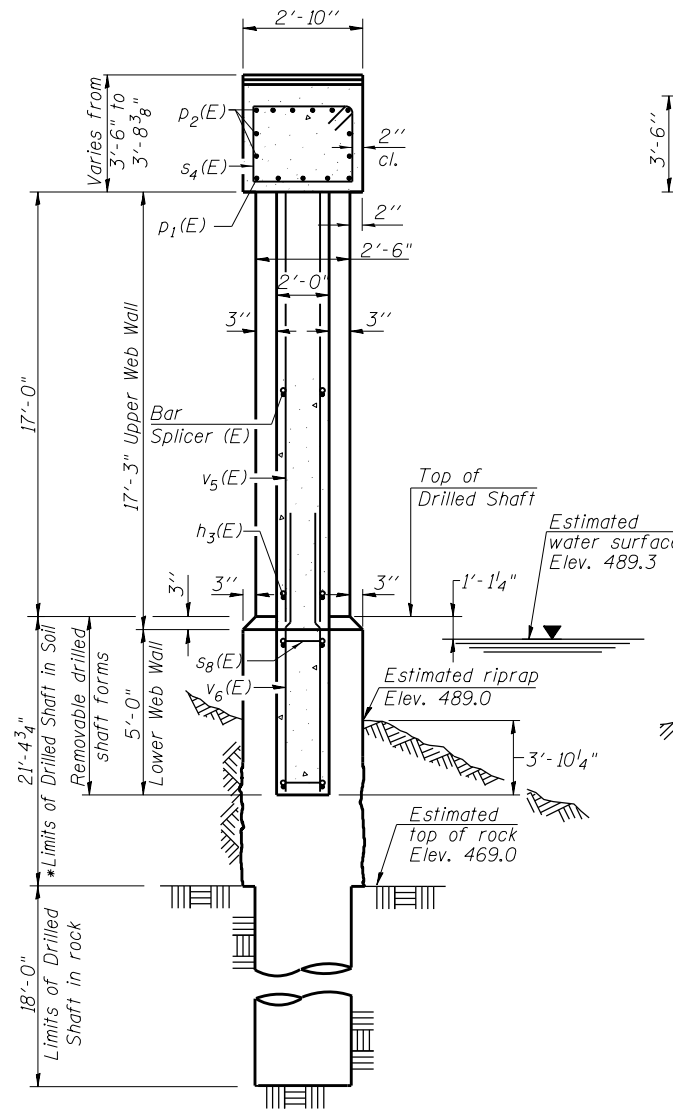
SECTION A-A



SECTION B-B

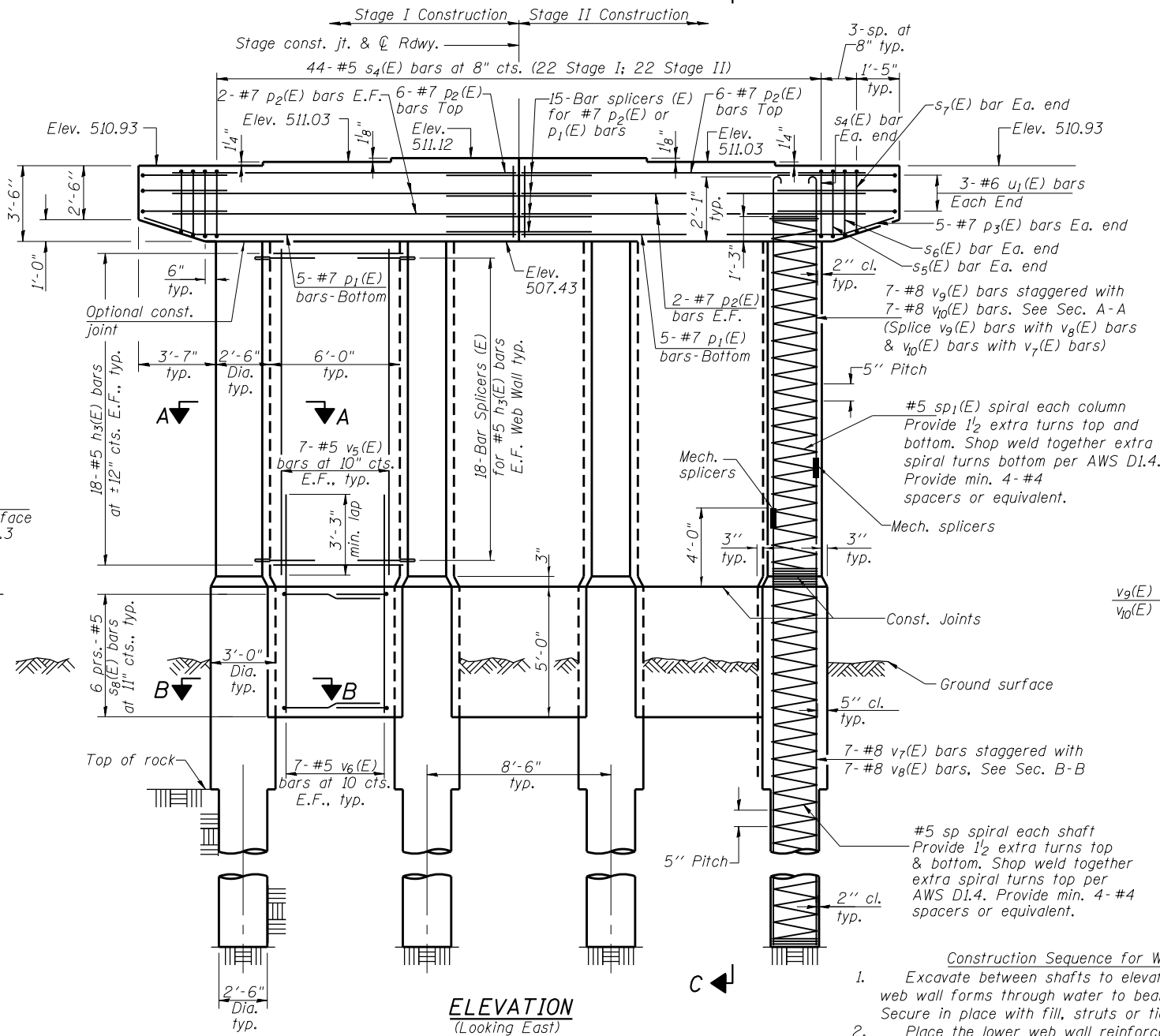


DETAIL A



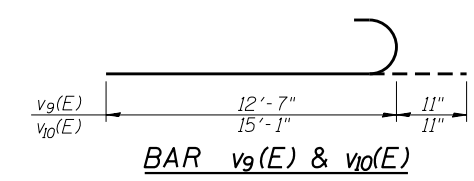
SECTION C-C

Note: If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

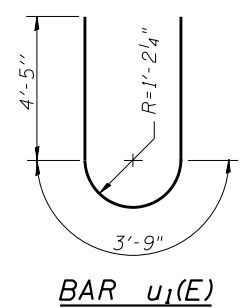


ELEVATION
(Looking East)

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.



BAR $v_9(E)$ & $v_{10}(E)$



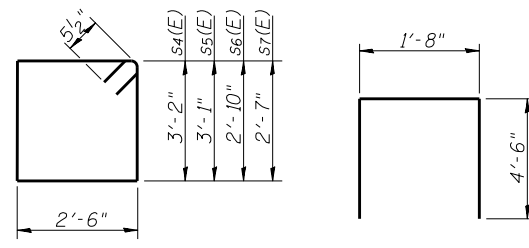
BAR $u_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_3(E)$	108	#5	5'-8"	—
$p_1(E)$	10	#7	14'-4"	—
$p_2(E)$	20	#7	16'-0"	—
$p_3(E)$	10	#7	3'-1"	—
$s_4(E)$	44	#5	12'-3"	□
$s_5(E)$	2	#5	12'-1"	□
$s_6(E)$	2	#5	11'-7"	□
$s_7(E)$	2	#5	11'-1"	□
$s_8(E)$	36	#5	10'-8"	□
sp	4	#5	39'-2"	⋈
$sp_1(E)$	4	#5	18'-3"	⋈
$u_1(E)$	6	#6	12'-7"	U
$v_5(E)$	42	#5	16'-11"	—
$v_6(E)$	42	#5	8'-3"	—
$v_7(E)$	28	#8	43'-5"	—
$v_8(E)$	28	#8	45'-11"	—
$v_9(E)$	28	#8	13'-6"	—
$v_{10}(E)$	28	#8	16'-0"	—
Structure Excavation	Cu. Yd.		13.1	
Concrete Structures	Cu. Yd.		55.0	
Reinforcement Bars	Pound		2760	
Reinforcement Bars, Epoxy Coated	Pound		14,110	
Drilled Shaft in Soil	Cu. Yd.		22.4	
Drilled Shaft in Rock	Cu. Yd.		13.1	

Cast steps monolithically with cap. Space cap reinforcement to miss anchor bolts. Minimum lap for spirals = 3'-9"
** Length is height of spiral.

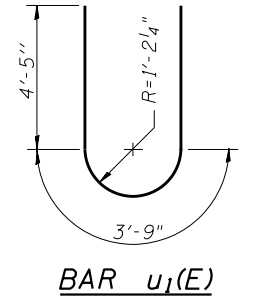
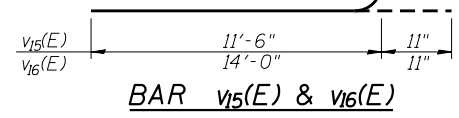
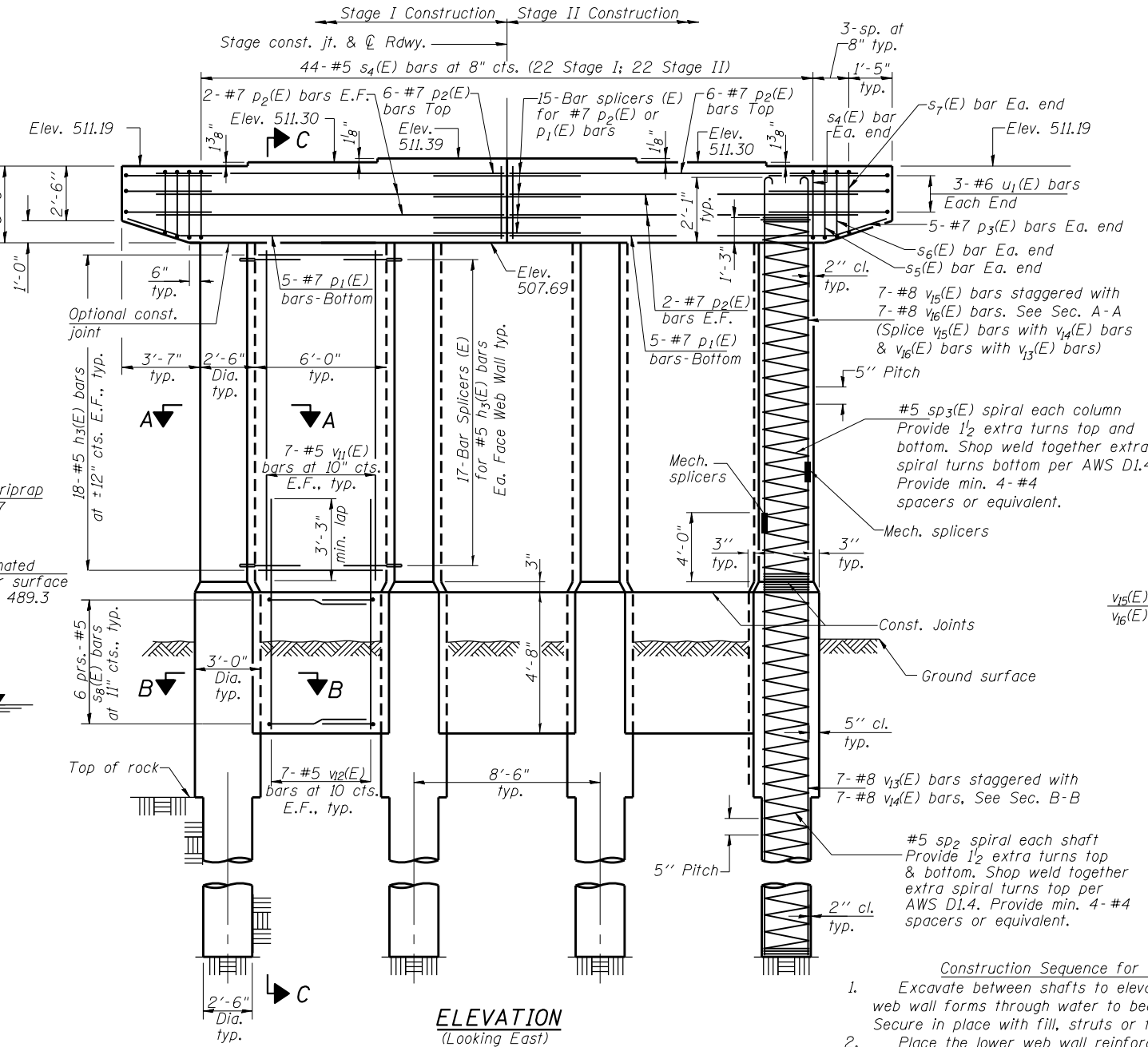
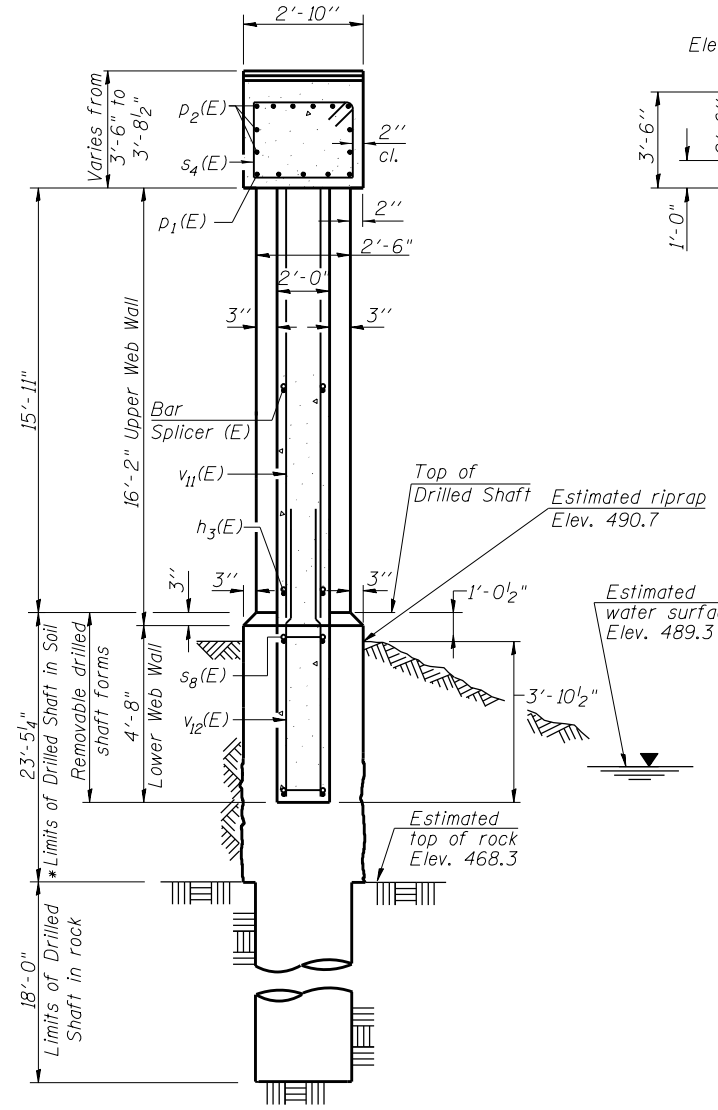
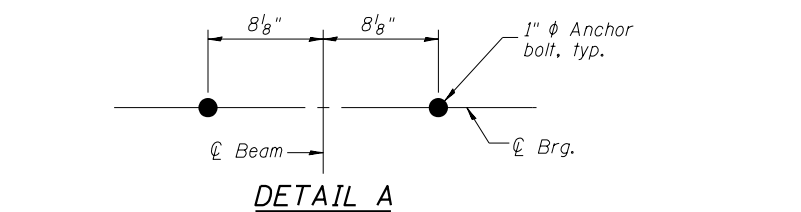
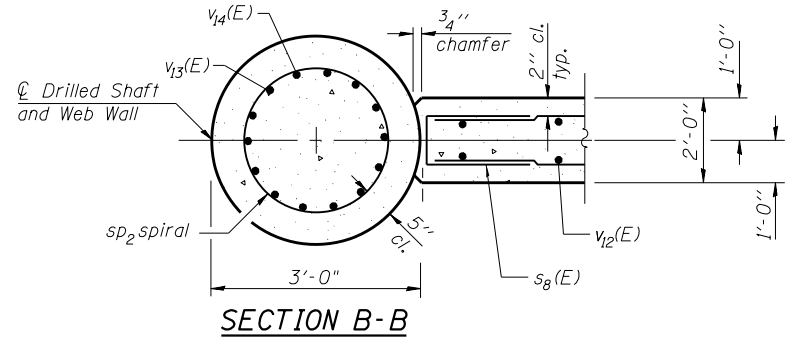
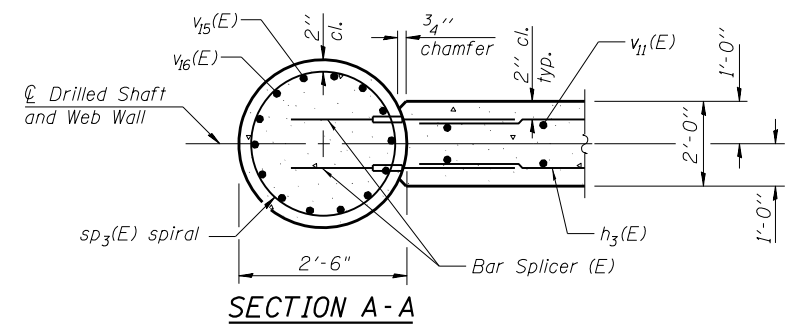
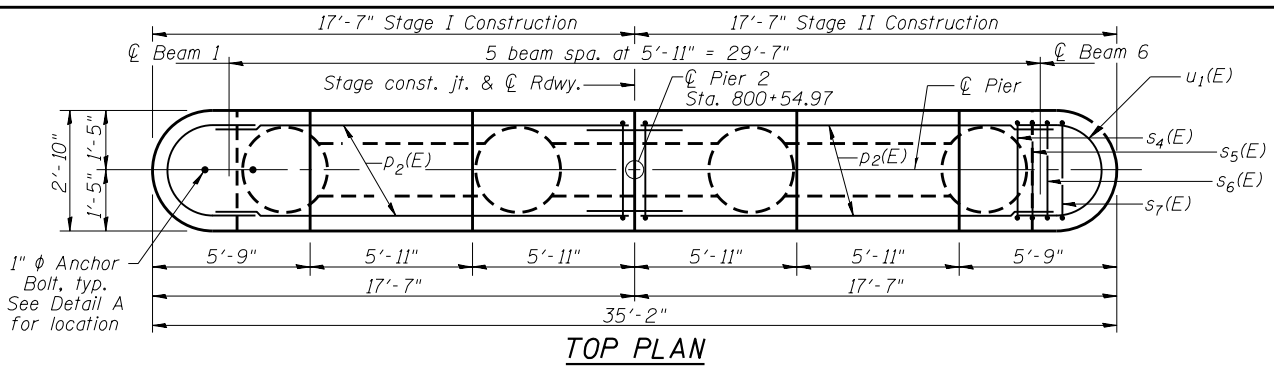
- Construction Sequence for Web Wall:**
- Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required.
 - Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
 - If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
 - Construct Columns.
 - Construct upper web walls.



BAR $s_4(E)$, $s_5(E)$, $s_6(E)$ & $s_7(E)$

BAR $s_8(E)$

Note: When splicing of spiral reinforcement is necessary, the spirals shall be provided with $\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook. Center web wall shall be constructed during Stage II Construction.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_3(E)$	102	#5	5'-8"	—
$p_1(E)$	10	#7	14'-4"	—
$p_2(E)$	20	#7	16'-0"	—
$p_3(E)$	10	#7	3'-1"	—
$s_4(E)$	44	#5	12'-3"	□
$s_5(E)$	2	#5	12'-1"	□
$s_6(E)$	2	#5	11'-7"	□
$s_7(E)$	2	#5	11'-1"	□
$s_8(E)$	36	#5	10'-8"	□
** SD_2	4	#5	41'-2"	⋈
** $SD_3(E)$	4	#5	17'-2"	⋈
$u_1(E)$	6	#6	12'-7"	—
$v_{11}(E)$	42	#5	15'-10"	—
$v_{12}(E)$	42	#5	7'-11"	—
$v_{13}(E)$	28	#8	45'-6"	—
$v_{14}(E)$	28	#8	48'-0"	—
$v_{15}(E)$	28	#8	12'-5"	—
$v_{16}(E)$	28	#8	14'-11"	—
Structure Excavation		Cu. Yd.	13.1	
Concrete Structures		Cu. Yd.	52.0	
Reinforcement Bars		Pound	2900	
Reinforcement Bars, Epoxy Coated		Pound	14,090	
Drilled Shaft in Soil		Cu. Yd.	24.5	
Drilled Shaft in Rock		Cu. Yd.	13.1	

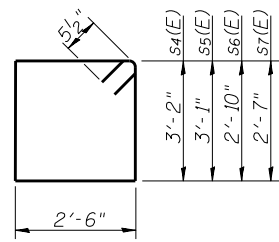
Note: If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

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 - Construct Columns.
 - Construct upper web walls.

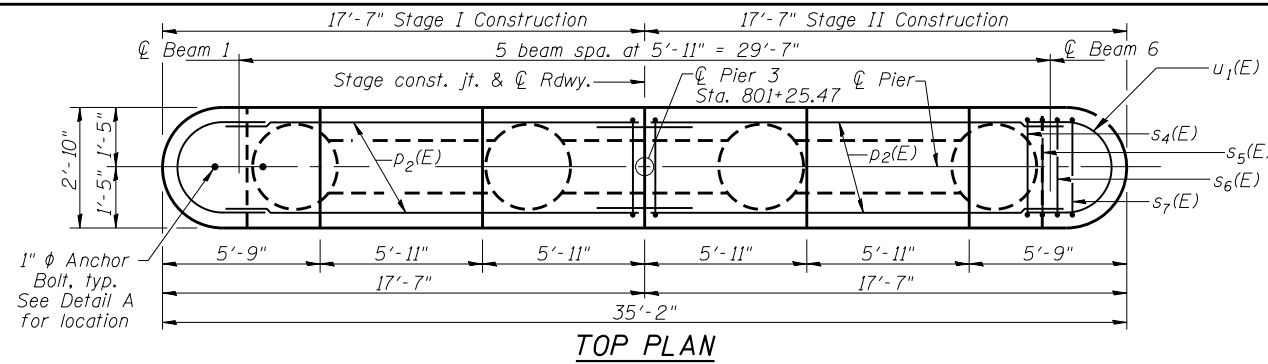
Cast steps monolithically with cap. Space cap reinforcement to miss anchor bolts. Minimum lap for spirals = 3'-9"

** Length is height of spiral.

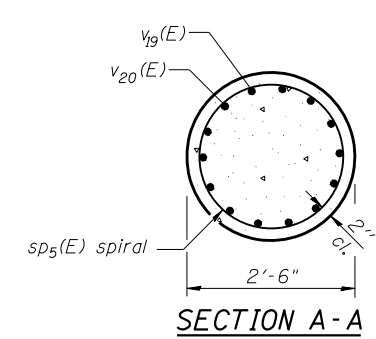


BAR $s_4(E)$, $s_5(E)$, $s_6(E)$ & $s_7(E)$

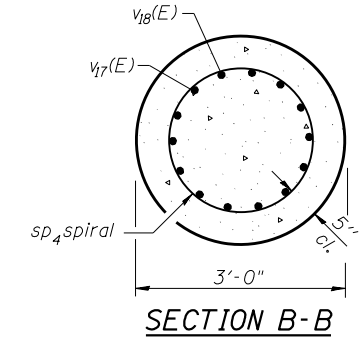
Note: When splicing of spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.



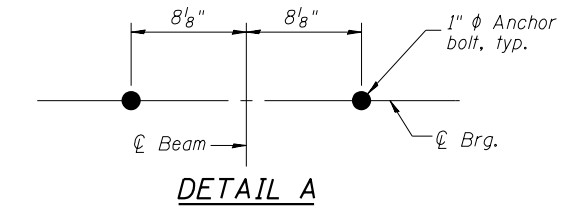
TOP PLAN



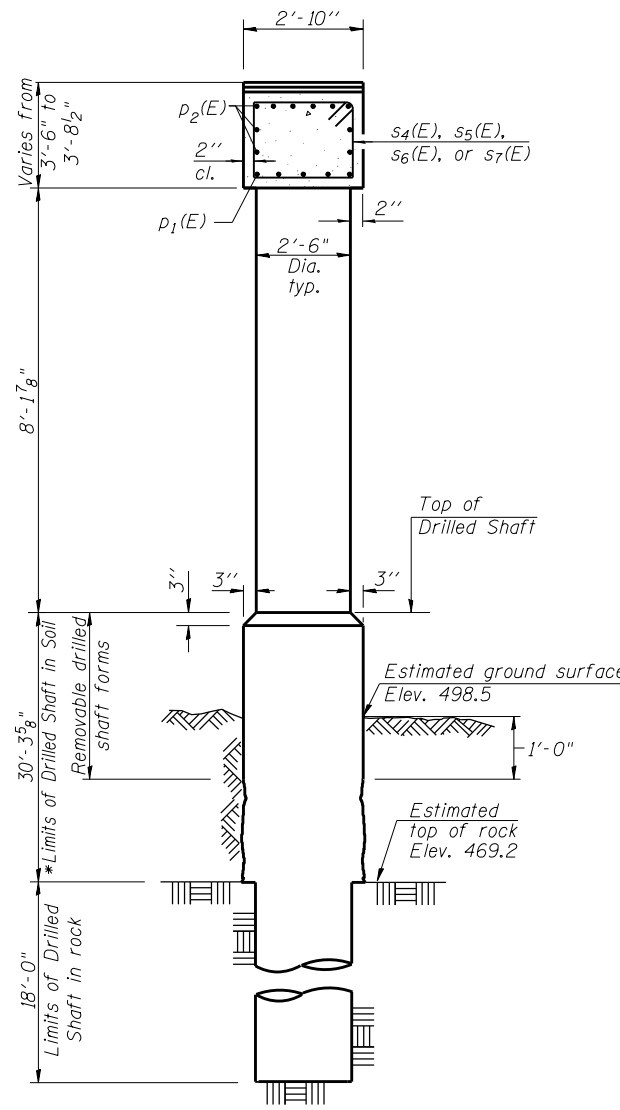
SECTION A-A



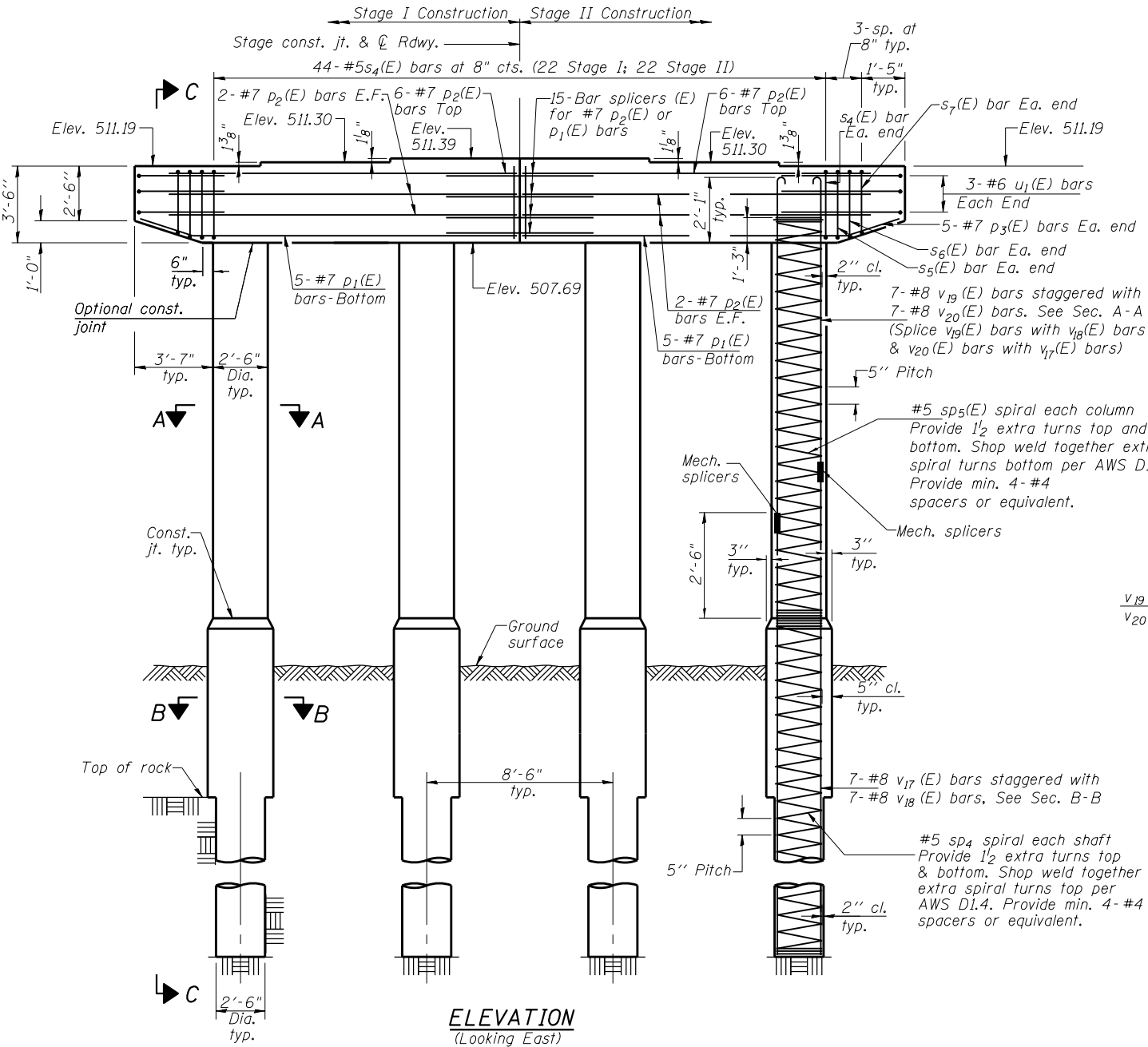
SECTION B-B



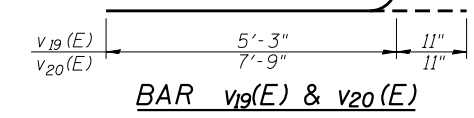
DETAIL A



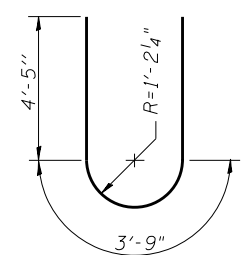
SECTION C-C



ELEVATION (Looking East)



BAR $v_{19}(E)$ & $v_{20}(E)$



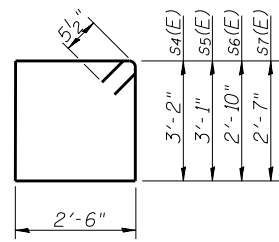
BAR $u_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$p_1(E)$	10	#7	14'-4"	—
$p_2(E)$	20	#7	16'-0"	—
$p_3(E)$	10	#7	3'-1"	—
$s_4(E)$	44	#5	12'-3"	□
$s_5(E)$	2	#5	12'-1"	□
$s_6(E)$	2	#5	11'-7"	□
$s_7(E)$	2	#5	11'-1"	□
sp_4	4	#5	48'-1"	⋈
$sp_5(E)$	4	#5	9'-5"	⋈
$u_1(E)$	6	#6	12'-7"	U
$v_{17}(E)$	28	#8	50'-10"	—
$v_{18}(E)$	28	#8	53'-4"	—
$v_{19}(E)$	28	#8	6'-2"	U
$v_{20}(E)$	28	#8	8'-8"	U
Concrete Structures		Cu. Yd.	18.9	
Reinforcement Bars		Pound	3370	
Reinforcement Bars, Epoxy Coated		Pound	11,380	
Drilled Shaft in Soil		Cu. Yd.	31.7	
Drilled Shaft in Rock		Cu. Yd.	13.1	

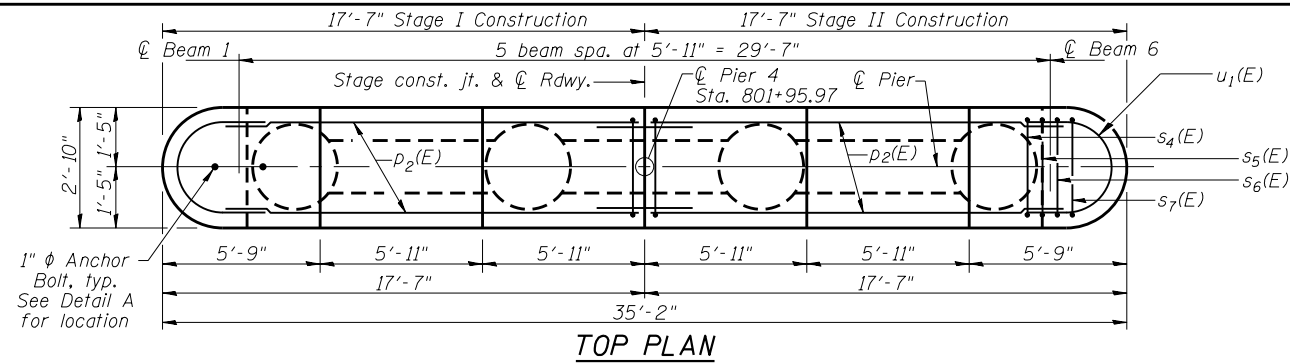
* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Cast steps monolithically with cap. Space cap reinforcement to miss anchor bolts. Minimum lap for spirals = 3'-9" ** Length is height of spiral.

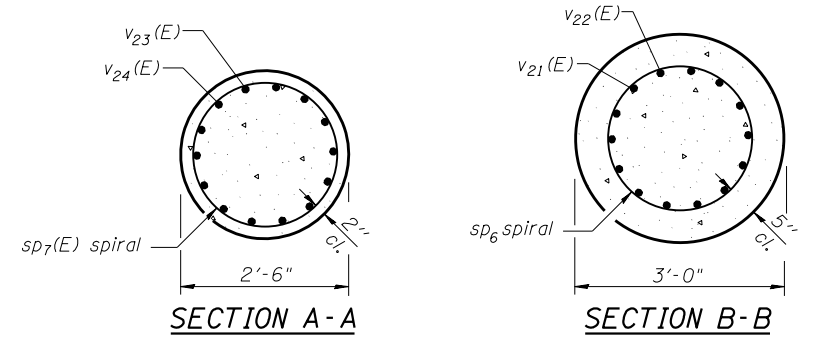


BAR $s_4(E)$, $s_5(E)$, $s_6(E)$ & $s_7(E)$

Note: When splicing of spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.

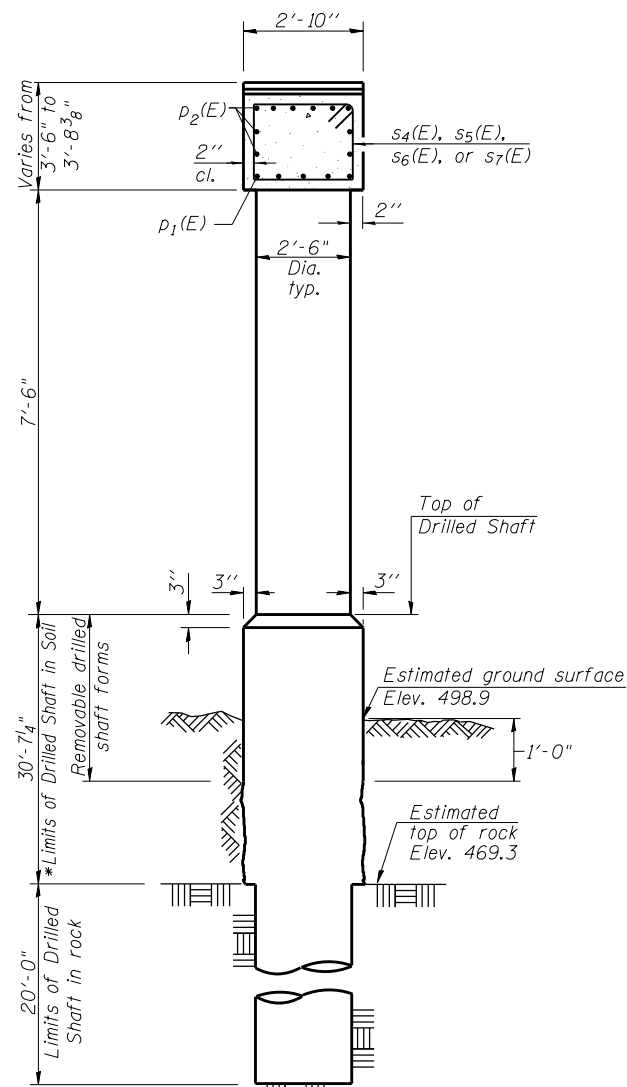


TOP PLAN

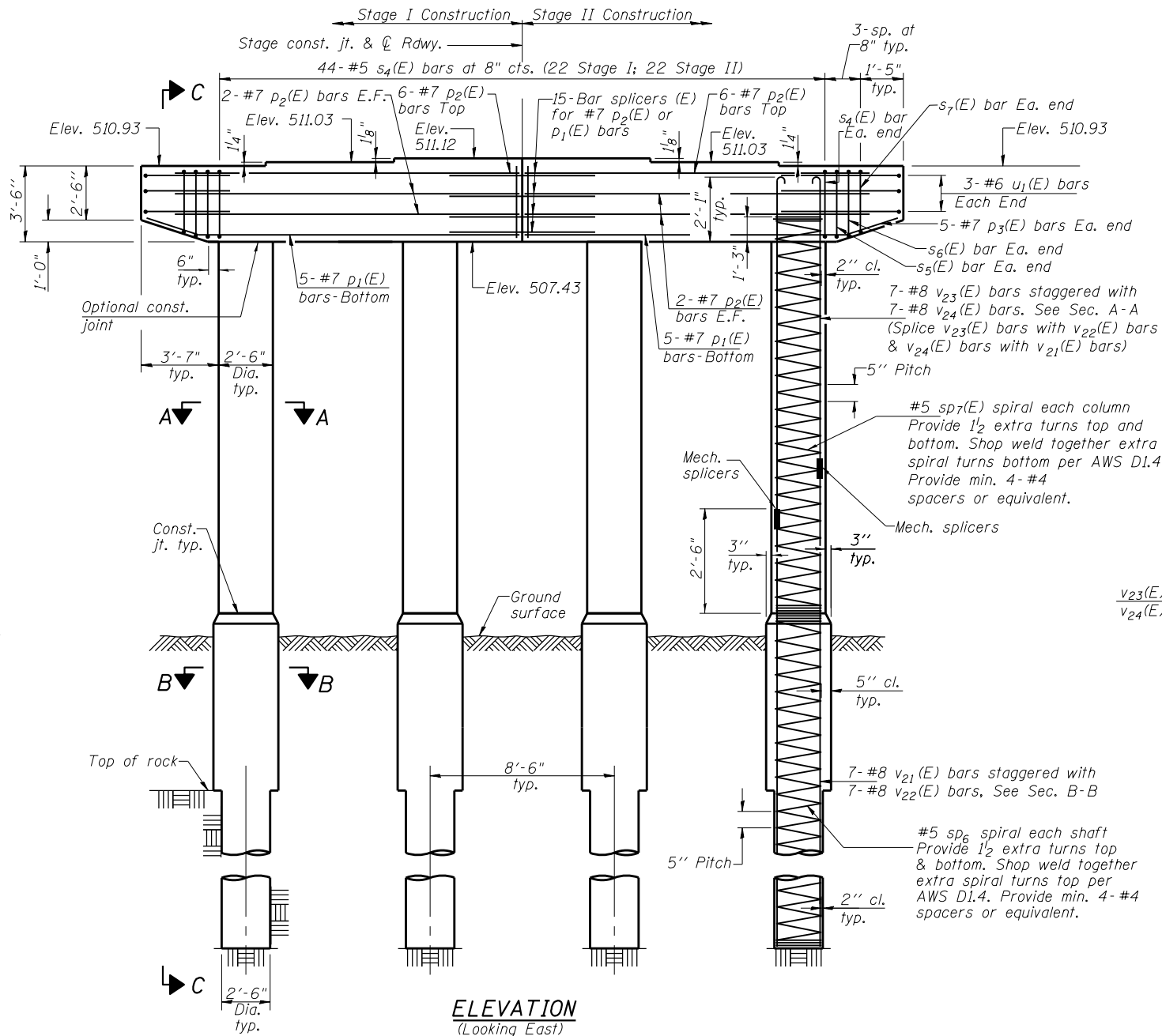


SECTION A-A

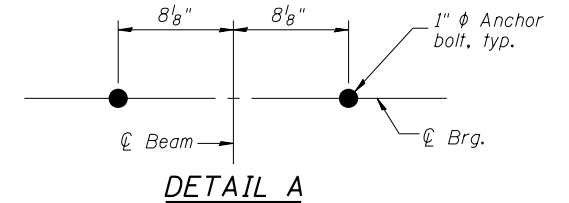
SECTION B-B



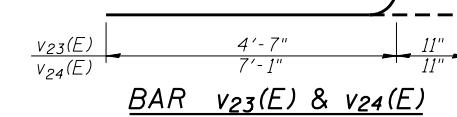
SECTION C-C



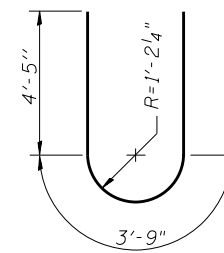
ELEVATION
(Looking East)



DETAIL A



BAR $v_{23}(E)$ & $v_{24}(E)$



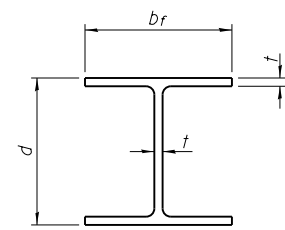
BAR $u_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$D_1(E)$	10	#7	14'-4"	—
$D_2(E)$	20	#7	16'-0"	—
$D_3(E)$	10	#7	3'-1"	—
$s_4(E)$	44	#5	12'-3"	□
$s_5(E)$	2	#5	12'-1"	□
$s_6(E)$	2	#5	11'-7"	□
$s_7(E)$	2	#5	11'-1"	□
SP_6	4	#5	50'-4"	⋈
$SP_7(E)$	4	#5	8'-9"	⋈
$u_1(E)$	6	#6	12'-7"	U
$v_{21}(E)$	28	#8	53'-1"	—
$v_{22}(E)$	28	#8	55'-7"	—
$v_{23}(E)$	28	#8	5'-6"	U
$v_{24}(E)$	28	#8	8'-0"	U
Concrete Structures	Cu. Yd.		18.4	
Reinforcement Bars	Pound		3520	
Reinforcement Bars, Epoxy Coated	Pound		11,570	
Drilled Shaft in Soil	Cu. Yd.		32.0	
Drilled Shaft in Rock	Cu. Yd.		14.5	

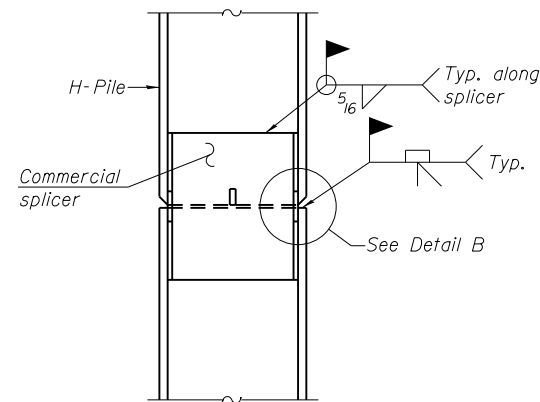
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Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
Minimum lap for spirals = 3'-9"
** Length is height of spiral.

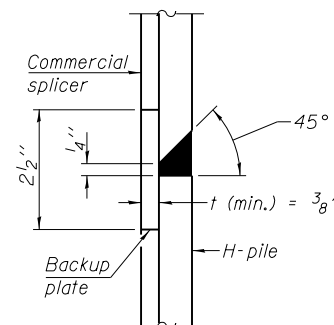


STEEL PILE TABLE

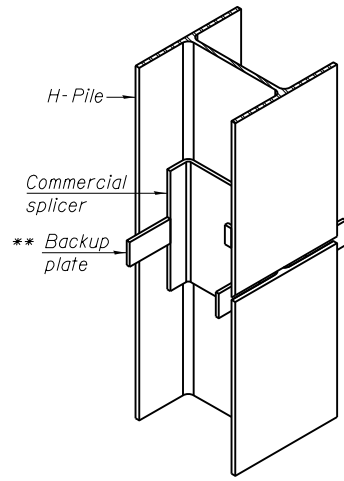
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

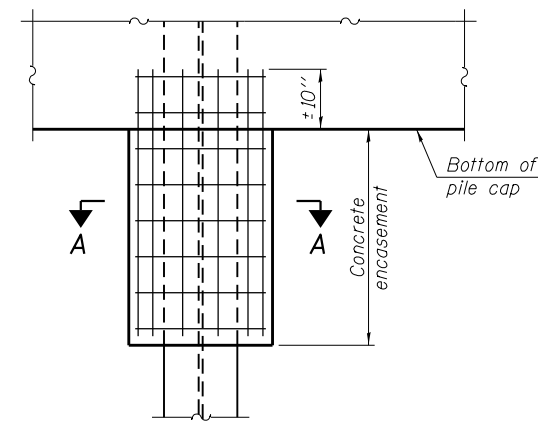


DETAIL "B"



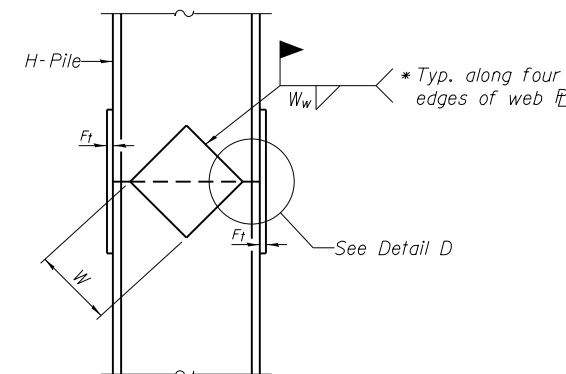
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

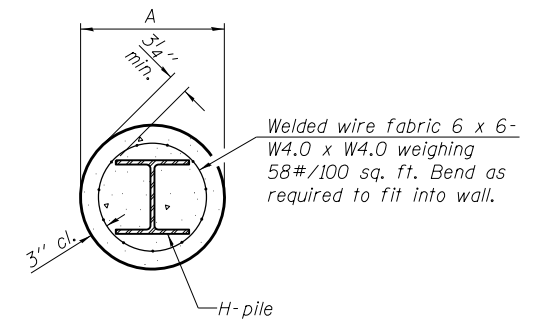
PILE ENCASEMENT



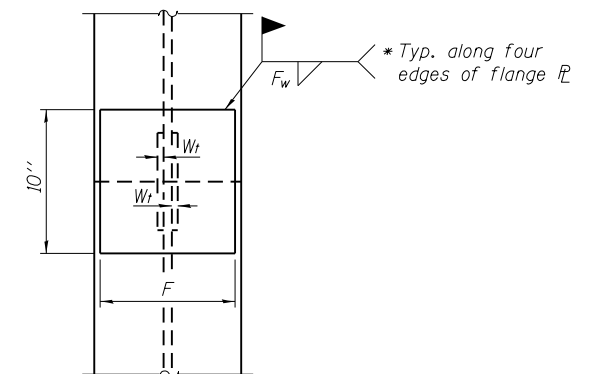
ELEVATION

DETAIL D

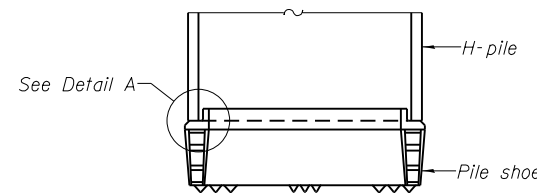
WELDED PLATE FIELD SPLICE



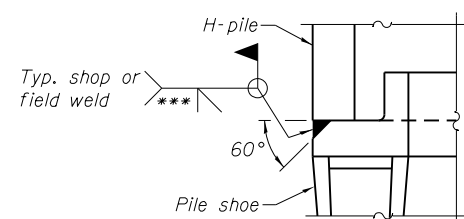
SECTION A-A



END VIEW

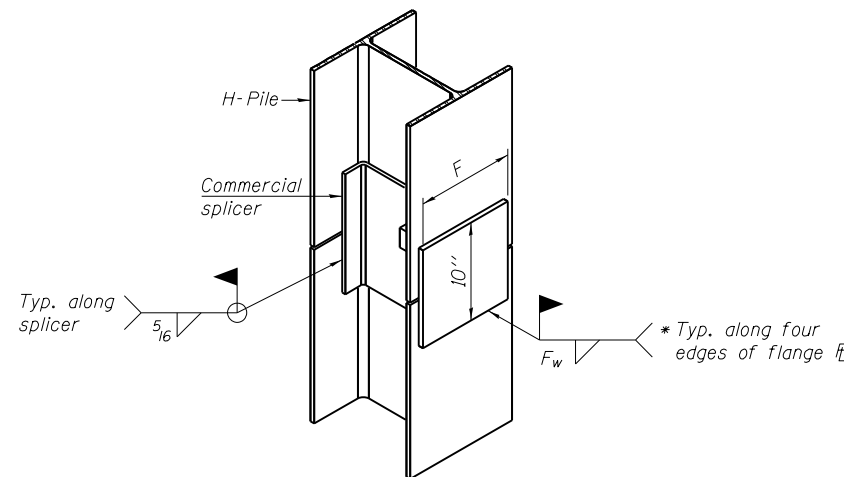


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

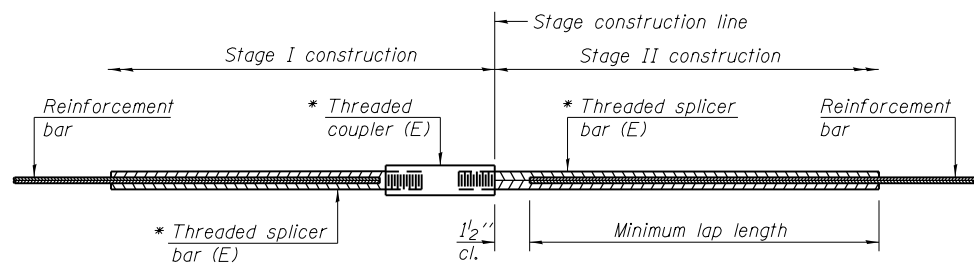
WELDED COMMERCIAL SPLICE ALTERNATE

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

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

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

F-HP 1-27-12



STANDARD BAR SPLICER ASSEMBLY

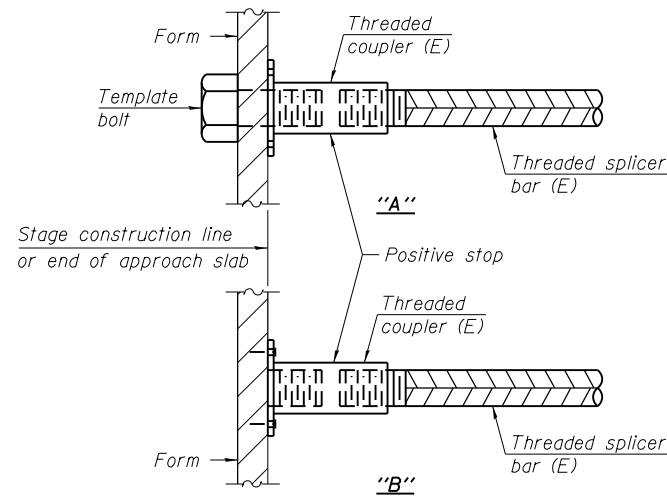
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

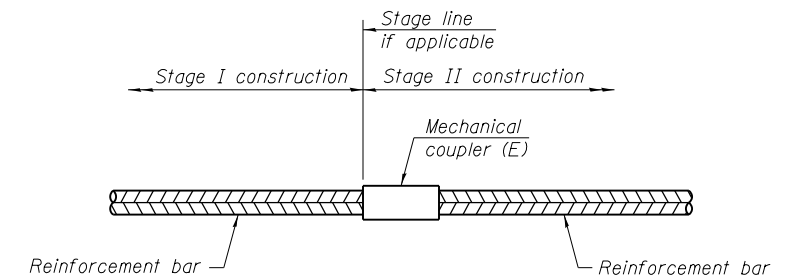
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	1044	3
Diaphragms	#6	14	4
Approaches	#4	62	3
Approach Footings	#5	80	3
West Abutment	#7	10	4
East Abutment	#7	10	4
Pier 1 (Web Wall)	#5	216	4
Pier 2 (Web Wall)	#5	204	4
Pier 1 (Cap)	#7	15	4
Pier 2 (Cap)	#7	15	4
Pier 3 (Cap)	#7	15	4
Pier 4 (Cap)	#7	15	4



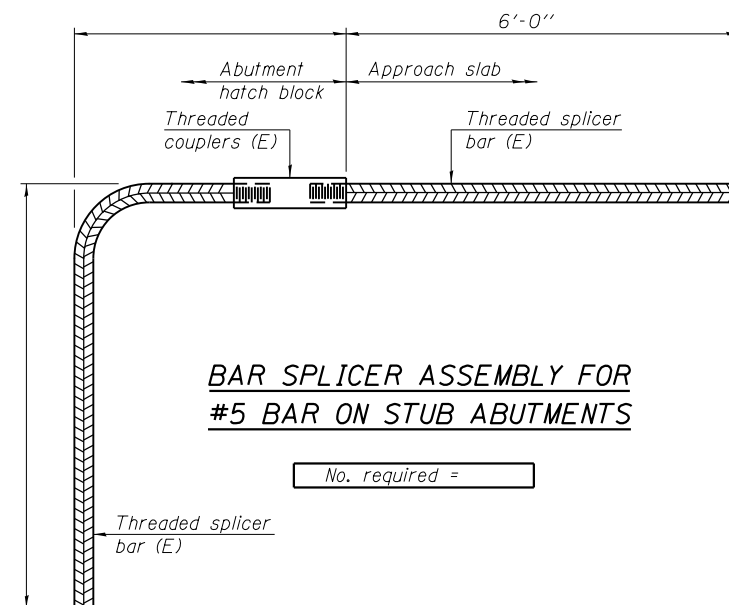
INSTALLATION AND SETTING METHODS

"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
Pier 1	#8	56
Pier 2	#8	56
Pier 3	#8	56
Pier 4	#8	56



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

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.

BSD-1

8-31-12



Illinois Department of Transportation
Division of Highways
Geotech Engineering & Testing, Inc.

SOIL BORING LOG

Date 11/30/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM, Latitude Longitude

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 02
Station 800+76.38
Offset 25.0 ft RT
Ground Surface Elev. 497.27 ft

Description	Depth (ft)	Blow Count (6")	SPT (tsf)	U (tsf)	M (tsf)	O (tsf)	D (tsf)	B (tsf)	U (tsf)	M (tsf)	O (tsf)	Elevations		
												Surface Water Elev. (ft)	Stream Bed Elev. (ft)	
Very Loose to Dense, Brown to Tan, Wet, Coarse SAND (continued)	9												489.04	488.00
	12													
	20													
	18												474.77	
Very Firm to Dense, Brown to Tan, Saturated, Coarse SAND w/ Gravel and Shale Fragments	19													
	17													
	6													
Very Soft to Firm, Brown, moist, SILTY CLAY LOAM w/ Some Organics	10													
	12													
	2													
	2													
	3													
	21													
Borehole continued with rock coring.	15													
	17													
Very Soft, Dark Brown to Black, Very Moist to Wet, SILTY CLAY LOAM w/ Organics	0													
	0													
	1													
	0													
	0													
	0.1													
	21													
Very Loose to Dense, Brown to Tan, Wet, Coarse SAND	15													
	1													
	1													
	1													
	3													
	3													
	3													
	21													
	3													
	3													
	20													

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



Illinois Department of Transportation
Division of Highways
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

ROCK CORE LOG

Date 11/30/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM, Latitude Longitude

COUNTY Peoria CORING METHOD Rotary Surf Set Diamond Bit

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 02
Station 800+76.38
Offset 25.0 ft RT
Ground Surface Elev. 497.27 ft

Description	Depth (ft)	Core Diameter (in)	Top of Rock Elev. (ft)	Begin Core Elev. (ft)	R (min/ft)	Q (%)	C (%)	S (%)	T (%)	E (%)	N (%)	G (%)	H (%)	Coring Data	
														Core Type	Core Size
Dark Gray, Highly Weathered, Stratified, CLAY SHALE with Dark Gray CLAY Seams	9	2	488.27	468.27										P2C1	100
	12														
	20														
Rock Core P2C1 from 29.0' to 36.0' depth. Rock Mass Rating = 27 (Class No. IV - Poor Rock) (continued)	18														
	19														
	17														
	6														
Very Soft to Firm, Brown, moist, SILTY CLAY LOAM w/ Some Organics	10														
	12														
	2														
	2														
	3														
	21														
Borehole continued with rock coring.	15														
	17														
Very Soft, Dark Brown to Black, Very Moist to Wet, SILTY CLAY LOAM w/ Organics	0														
	0														
	1														
	0														
	0														
	0.1														
	21														
Very Loose to Dense, Brown to Tan, Wet, Coarse SAND	15														
	1														
	1														
	1														
	3														
	3														
	3														
	21														
	3														
	3														
	20														

Color pictures of the cores Yes
Cores will be stored for examination until 12/8/12
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Geotech Engineering & Testing, Inc.

SOIL BORING LOG

Page 1 of 2

Date 12/1/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 04
Station 801.95.96
Offset 25.0 ft RT
Ground Surface Elev. 499.39 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	SPT VALUE (blows/2ft)	SOIL DESCRIPTION	SURFACE WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEV. (ft)	FIRST ENCOUNTER (ft)	UPON COMPLETION (ft)	AFTER (ft)	D	B	U	M
0	4		TOPSOIL	489.04	488.00								
2	2	0.7	Firm, Brown and Black, moist, SILTY CLAY LOAM w/ Some Organics										
4	2	1.8	Firm, Dark Brown to Black, moist, SILTY CLAY										
6	4	1.6	Soft, Brown, Moist SANDY CLAY LOAM										
8	4	1.8	Very Loose, Brown, Wet, SANDY LOAM										
10	1	0.4	Firm, Brown, Wet, GRAVEL w/ Sand										
12	5	6	Loose, Brown to Tan, Wet to Saturated, SANDY LOAM										
14	4	4											
16	4	4											
18	4	4											
20	4	4											
22	4	4											
24	4	4											
26	4	4											
28	4	4											
30	4	4											
32	4	4											
34	4	4											
36	4	4											
38	4	4											
40	4	4											

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



Illinois Department of Transportation
Division of Highways
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

ROCK CORE LOG

Page 2 of 2

Date 12/1/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM

COUNTY Peoria CORING METHOD Rotary Surf Set Diamond Bit

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 04
Station 801.95.96
Offset 25.0 ft RT
Ground Surface Elev. 499.39 ft

DEPTH (ft)	CORING BARREL TYPE & SIZE	CORE DIAMETER (in)	TOP OF ROCK ELEV. (ft)	BEGIN CORE ELEV. (ft)	D	R	C	O	V	D	C	C	S
0													
30.0	P4C1	2	469.39	469.39									
37.0													
45.0	P4C2	2	469.39	469.39									
45.0													
45.39													

Color pictures of the cores Yes
Cores will be stored for examination until 12/8/12
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

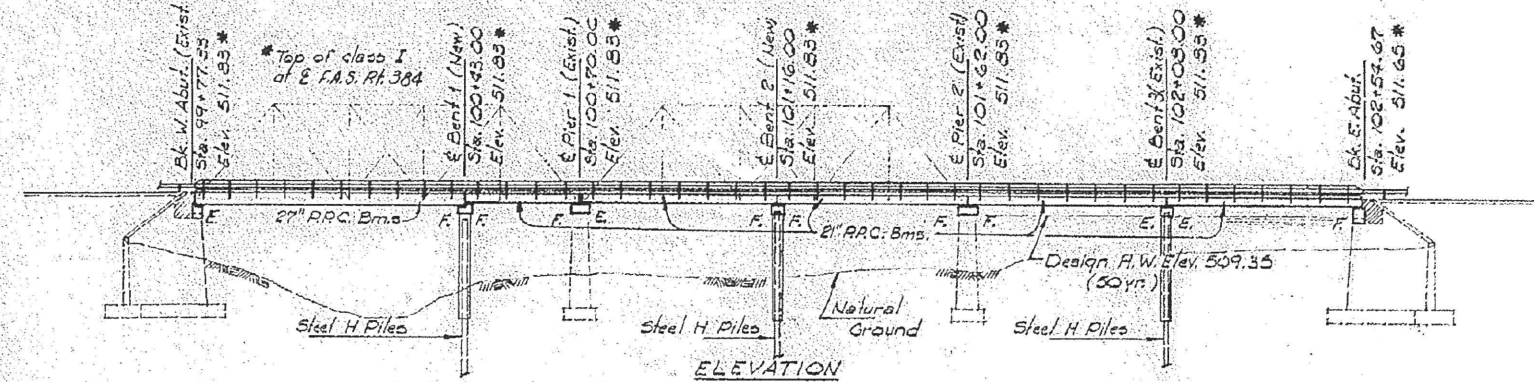
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.S. 384	Z-ID-BR-1	Peoria	89	76a

B.M.: Chisled square on N.W. Wing wall - Existing Bridge, Elev. 510.28. Existing Structure No. 072-0047. Built as a three (3) span truss bridge on conc. piers and closed abutments. Built as S.A. Route 11, Sec. 2-ID, of Sta. 101+15.9 in 1931. East span truss replaced in 1974 with a two (2) spans P.P.C. Deck Bms. Superstructure on a pile bent pier. The remaining 2 Truss spans to be replaced with a P.P.C. Deck Bms. Superstructure on enclosed pile bent piers. The two (2) spans which were built in 1974 shall be widened. The existing 36" wide P.P.C. Deck Beams shall be repositioned to accommodate the proposed Hwy. crown. The existing 48" wide P.P.C. Deck Beams shall be removed and replaced with 36" wide Deck Beams.

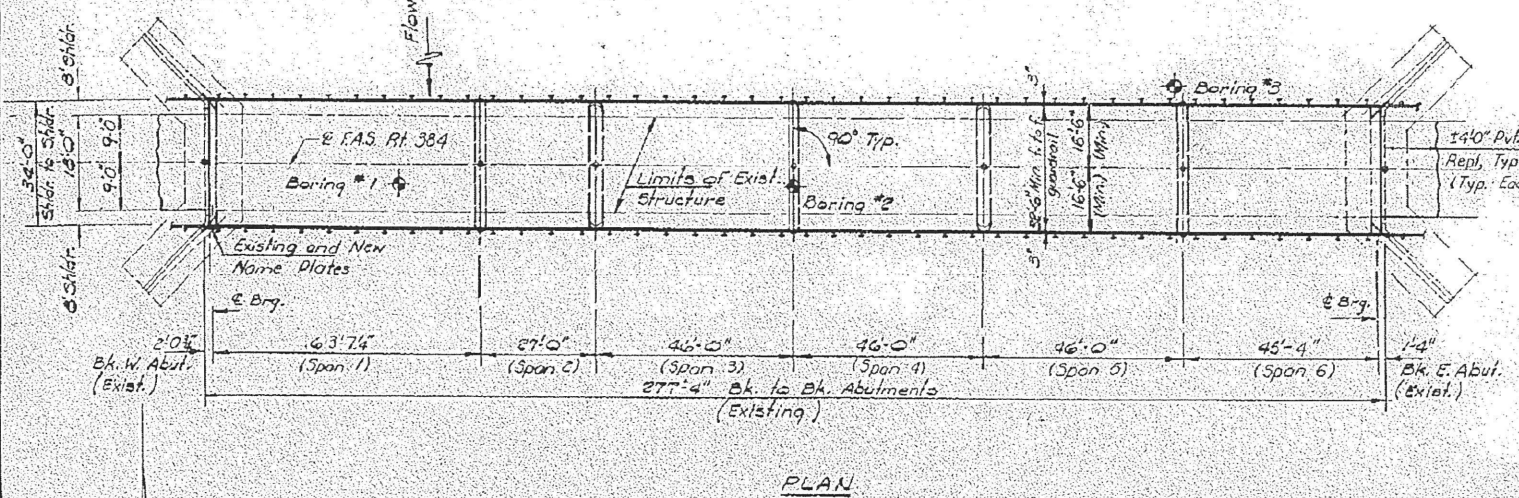
GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M53, Grade 60. For Boring Data see the Proposal.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" hooked bolts.
The Contractor shall drive one steel (HPBx36) test pile in a permanent location at Bent #1 as directed by the Engineer before ordering the remainder of piles.
Limits of Waterproofing Membrane System shall be from end of deck at west end to back of abutment at east end and face of curb.
The concrete section above the mandatory construction joint at the top of the exterior beams shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Standard Concrete.



STATION 101+16.00
KICKAPOO CREEK
REBUILT 19
FA.S. RT. 384 SEC. 2-ID-BR-1
LOADING HS20
***STR. NO.

NAME PLATE
(See Std. 2113)
***Structure No. to be supplied by District.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yd.		75	75
Bituminous Concrete Surface Course, Class I	Tons	65		65
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		41	41
Removal of Existing Concrete Deck Beams	Each	2		2
Remove and Reset Existing Precast Prestressed Concrete Beams	Each	12		12
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2117		2117
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	5294		5294
Expansion Bolts (3/4")	Each		110	110
Pavement Removal and Portland Cement Concrete Replacement, Type III (10")	Sq. Yd.	16		16
Protective Coat	Sq. Yd.	92		92
Class X Concrete	Cu. Yd.	18.7	192.2	210.9
Reinforcement Bars	Pound	1600	18,940	20,540
Structural Steel	Pound	4890		4890
Waterproofing Membrane System	Sq. Yd.	957		957
Steel Railing, Type "T"	Lins. Ft.	551		551
Preformed Joint Sealer (12")	Lins. Ft.	99		99
Steel Piles (HPBx36)	Lins. Ft.		702	702
Test Piles Steel (HPBx36)	Each	1		1
Name Plates	Each	1		1
Portland Cement Mortar Finishing Course	Lins. Ft.	2721		2721

FOR INFORMATION ONLY

DESIGN STRESSES (New Construction)

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_s = 20,000$ psi (Struct.)

PRECAST PRESTRESSED UNITS

$f_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f_s = 270,000$ psi (6" strands)
 $f_{si} = 188,700$ psi (6" strands)

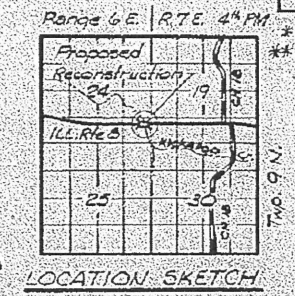
LOADING HS 20-44

Allow 25" eq. ft. for future wearing surface. (New Construction)
Design Specification AASHTO 1973, 1974, 1975, 1976 and 1977 Interim Specification.

WATERWAY INFORMATION

Drainage Area = 230 sq. mi.
Existing Opening = 3500 sq. ft.
Required Opening = 3800 sq. ft.
Proposed Opening = 3800 sq. ft.
Design Discharge (50 yr.) = 27,700 cfs.
Created Head for Design Flood = 0.45'
100 yr. Discharge = 32,000 cfs.
Created Head for 100 yr. Flood = 0.62'
100 yr. H.W. Elev. = 510.36
50 yr. Design H.W. Elev. = 509.35

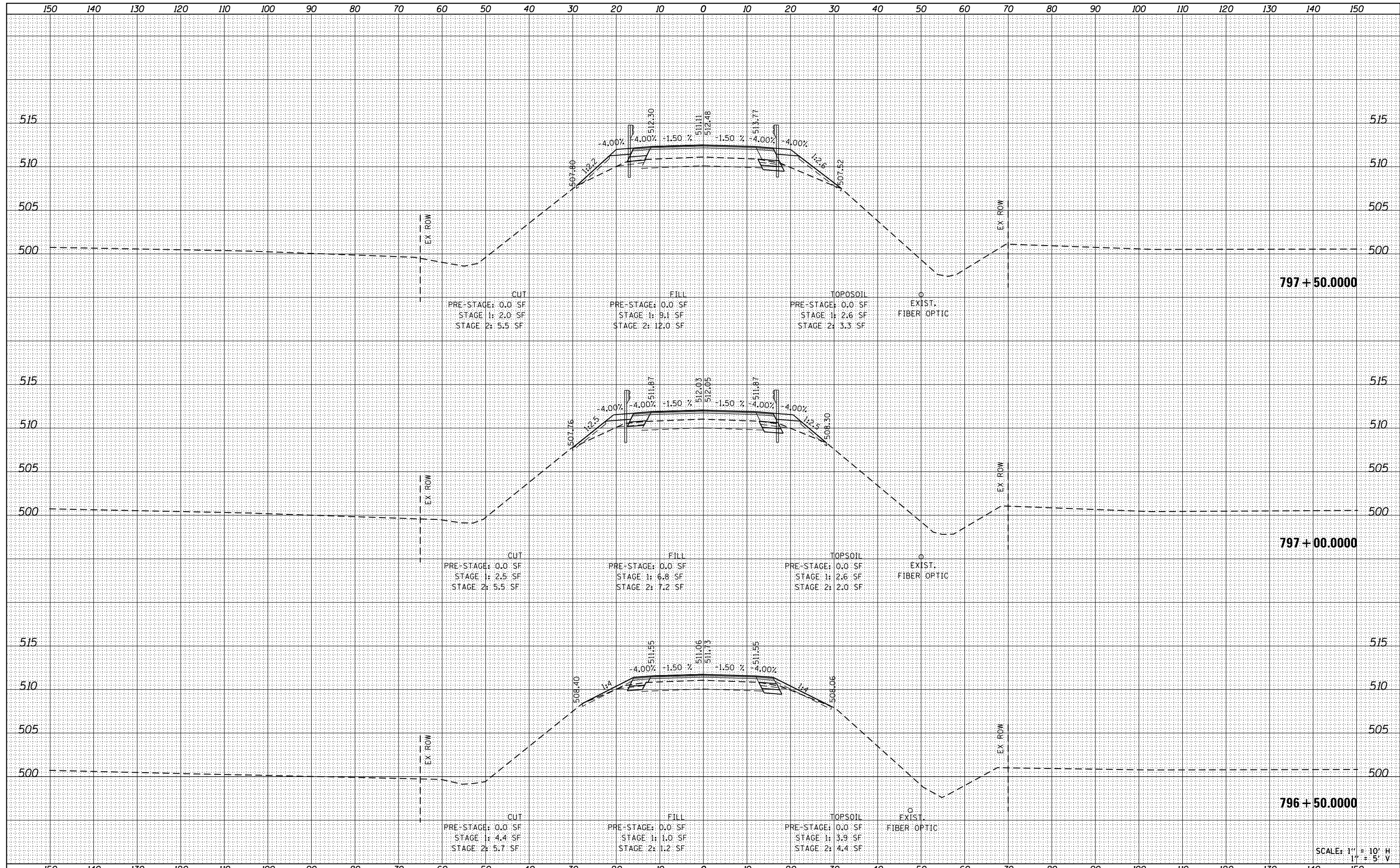
DESIGNED: *Lee H. Hurd*
CHECKED: *R. Doty*
DRAWN: *R. Doty*
CHECKED: *D.E.A.*
EXAMINED: *John J. Hurd*
PASSED:
APPROVED:



GENERAL PLAN & ELEVATION
FA.S. Rte. 384 Over Kickapoo Creek of Edwards
FA.S. Rte. 384 SECTION 2-ID-BR-1
PEORIA COUNTY
Sta. 101+16.00

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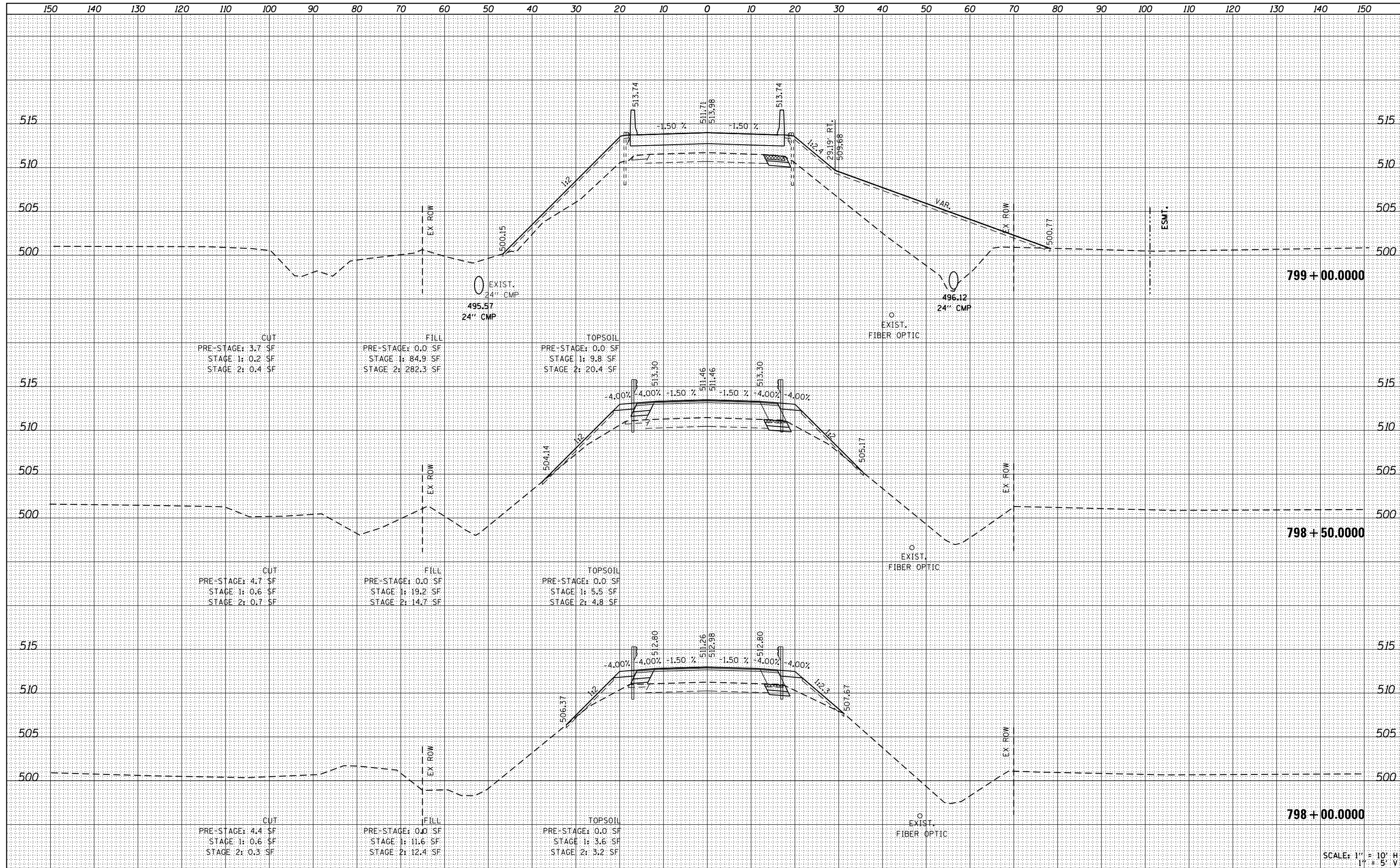
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FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 20.0000" / in.	CHECKED -	REVISED -	CONTRACT NO. 68697							
PLOT DATE = 3/20/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
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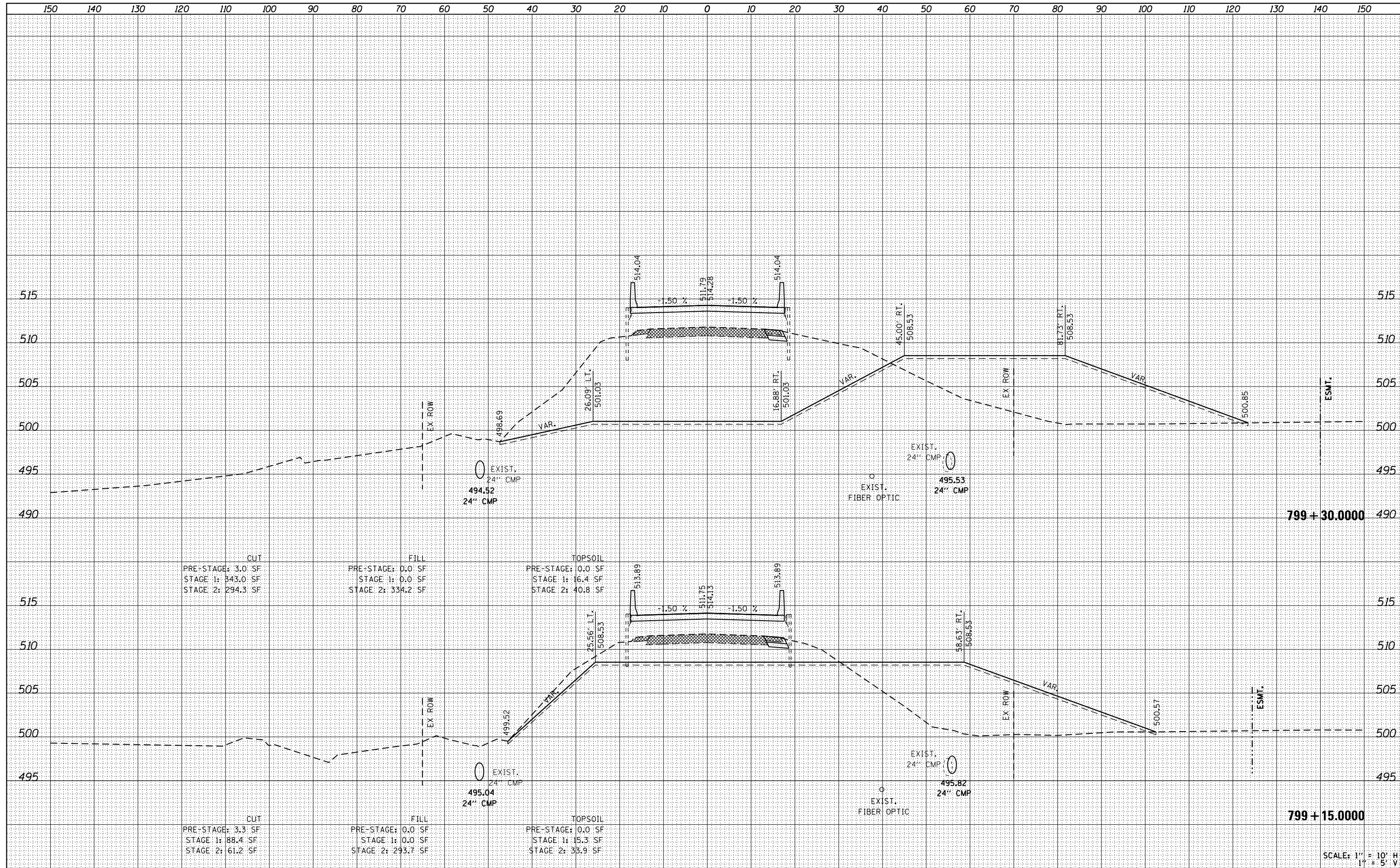


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P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\D468797-sht-xssh.d	DRAWN -	REVISED -	REVISED -			1388	(Z-1D-BR-1)BR	PEORIA	89	80
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 68697				
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 10' H
1" = 5' V

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK NO.	
AREAS CHECKED	

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



CUT
 PRE-STAGE: 3.0 SF
 STAGE 1: 343.0 SF
 STAGE 2: 294.3 SF

FILL
 PRE-STAGE: 0.0 SF
 STAGE 1: 0.0 SF
 STAGE 2: 334.2 SF

TOPSOIL
 PRE-STAGE: 0.0 SF
 STAGE 1: 16.4 SF
 STAGE 2: 40.8 SF

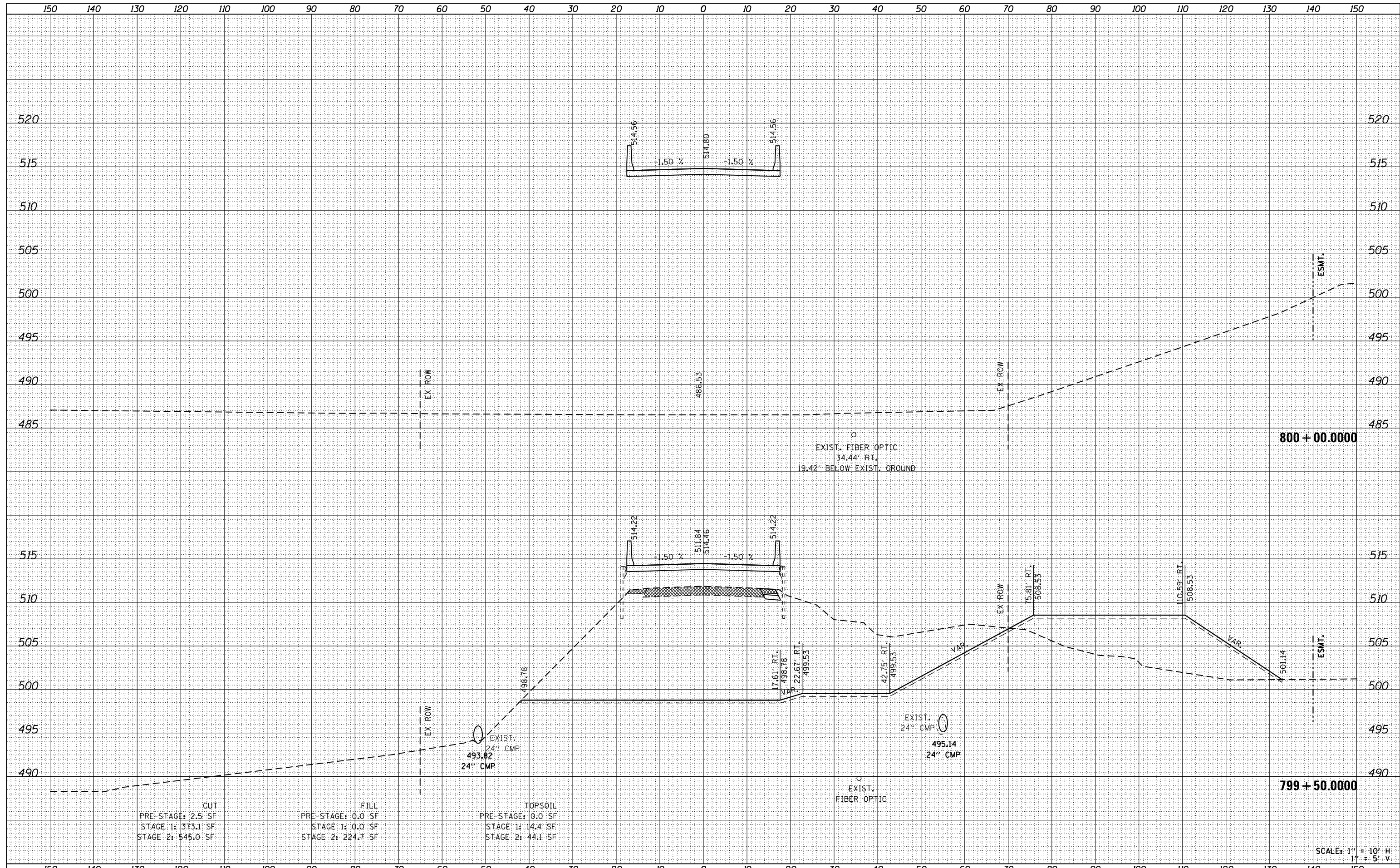
CUT
 PRE-STAGE: 3.3 SF
 STAGE 1: 88.4 SF
 STAGE 2: 61.2 SF

FILL
 PRE-STAGE: 0.0 SF
 STAGE 1: 0.0 SF
 STAGE 2: 293.7 SF

TOPSOIL
 PRE-STAGE: 0.0 SF
 STAGE 1: 15.3 SF
 STAGE 2: 33.9 SF

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NOTE BOOK	
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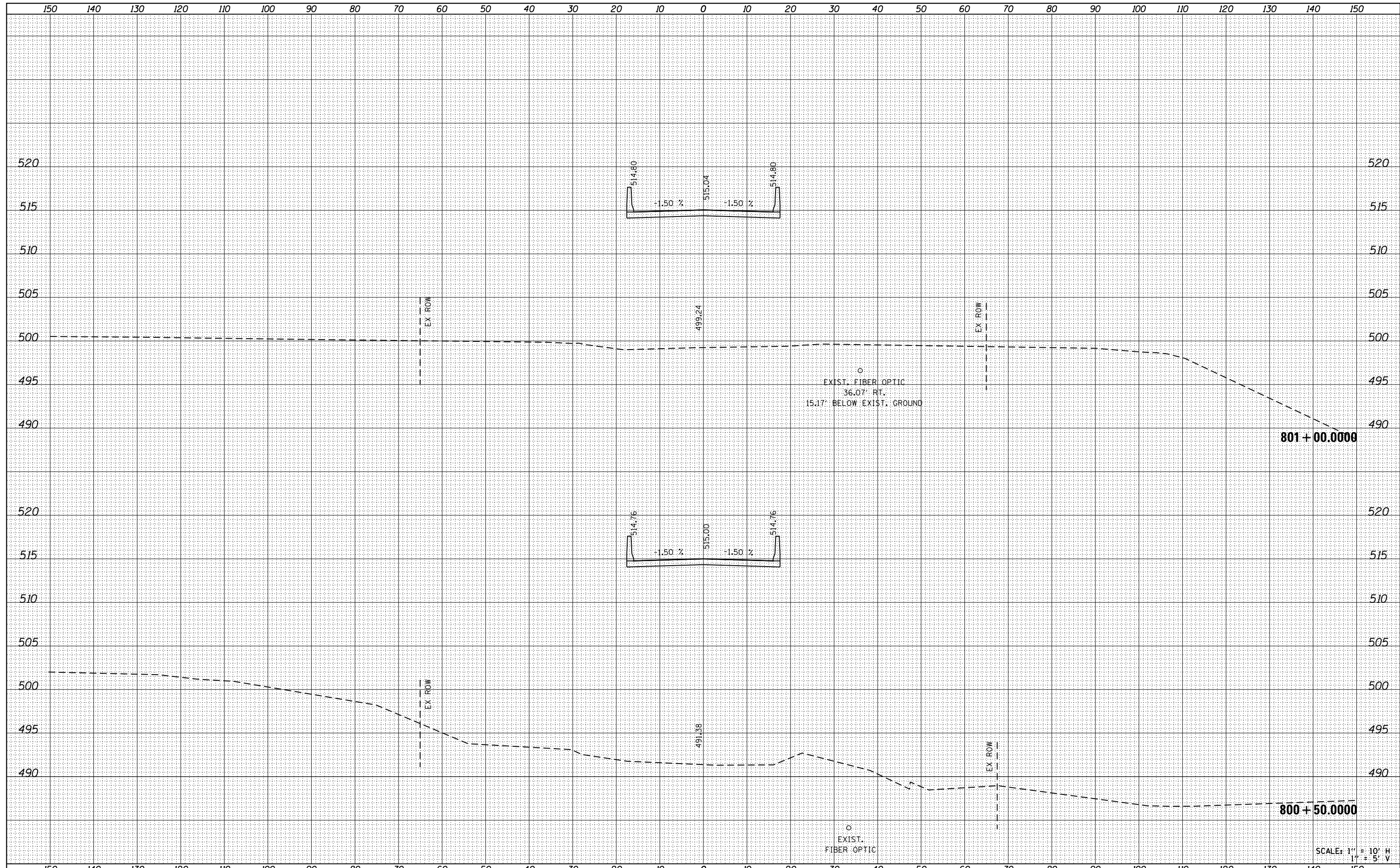
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AREAS CHECKED	
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CUT	FILL	TOPSOIL
PRE-STAGE: 2.5 SF	PRE-STAGE: 0.0 SF	PRE-STAGE: 0.0 SF
STAGE 1: 373.1 SF	STAGE 1: 0.0 SF	STAGE 1: 14.4 SF
STAGE 2: 545.0 SF	STAGE 2: 224.7 SF	STAGE 2: 44.1 SF

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FINAL SURVEY	
NOTE BOOK	
NO.	

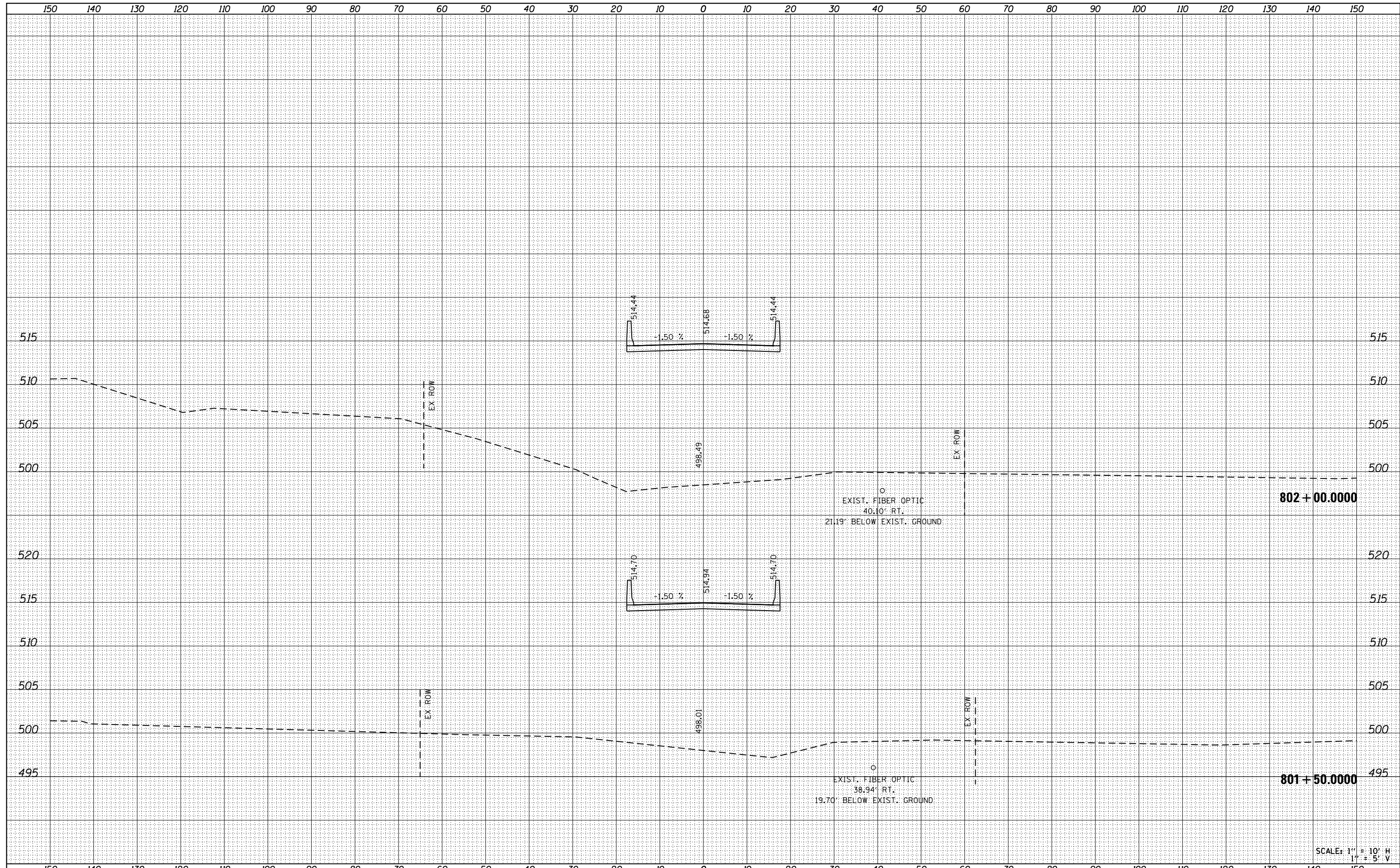
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FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\D468797-sht-xssh.d	DRAWN -	REVISED -	1388			(Z-1D-BR-1)BR	PEORIA	89	83	
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PLOT DATE = 3/20/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE: 1" = 10' H 1" = 5' V	SCALE: 1:10H 1:5V SHEET 7 OF 13 SHEETS STA. 800+50.0000 TO STA. 801+00.0000				

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
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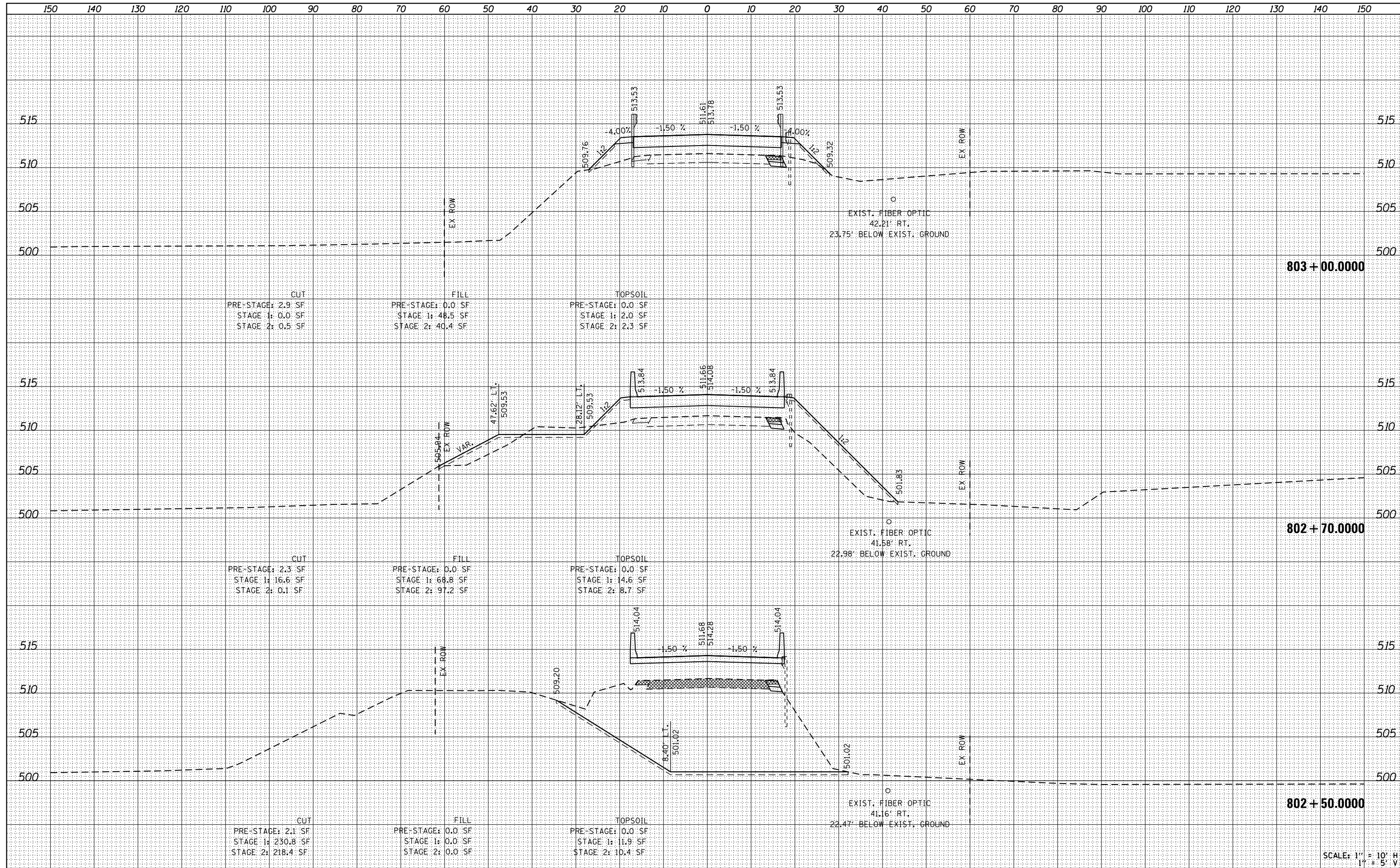


FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\D468797-sht-xssh.d	DRAWN -	REVISED -	1388			(Z-1D-BR-1)BR	PEORIA	89	84	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 68697							
PLOT DATE = 3/20/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: 1" = 10' H
1" = 5' V

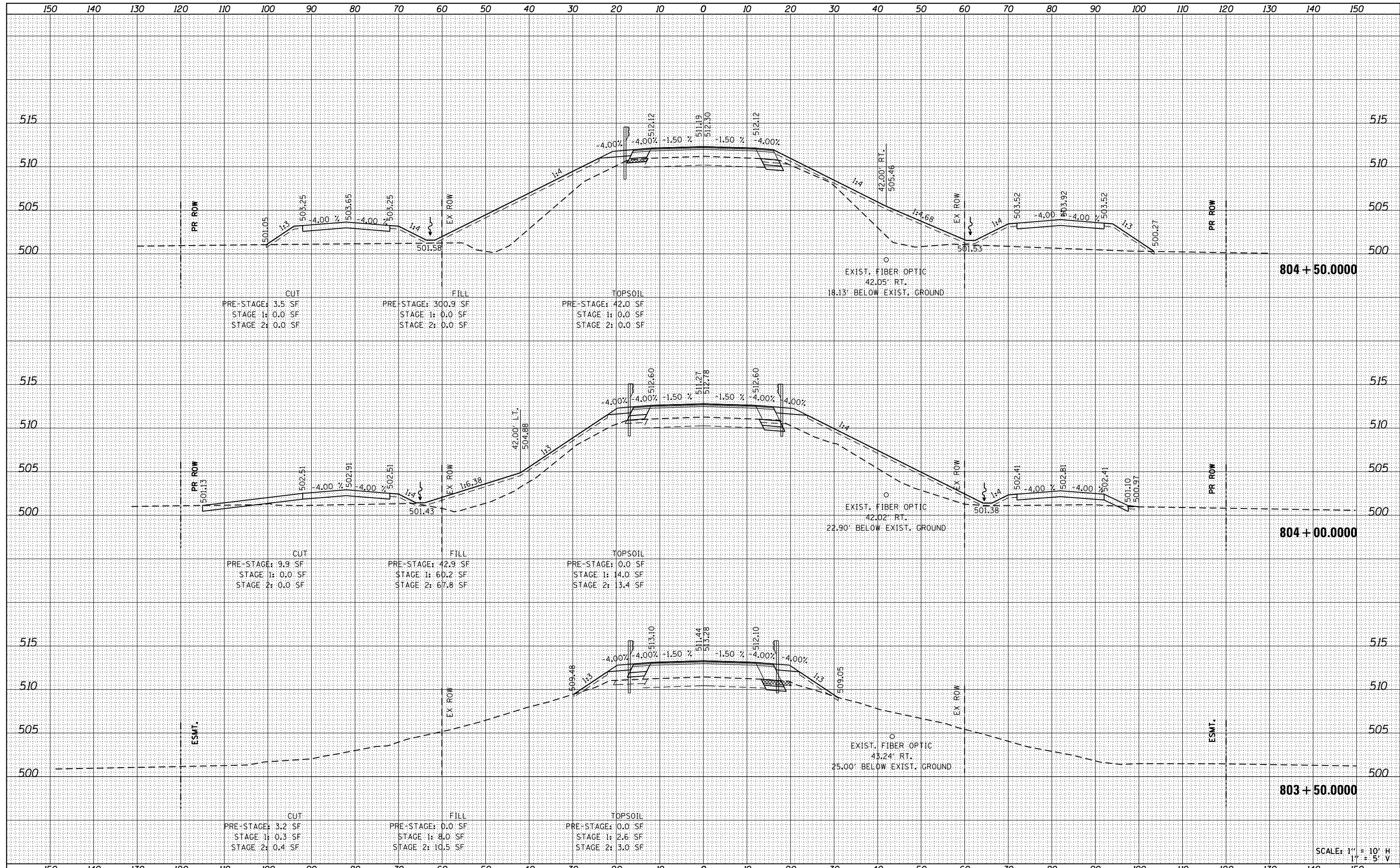
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DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

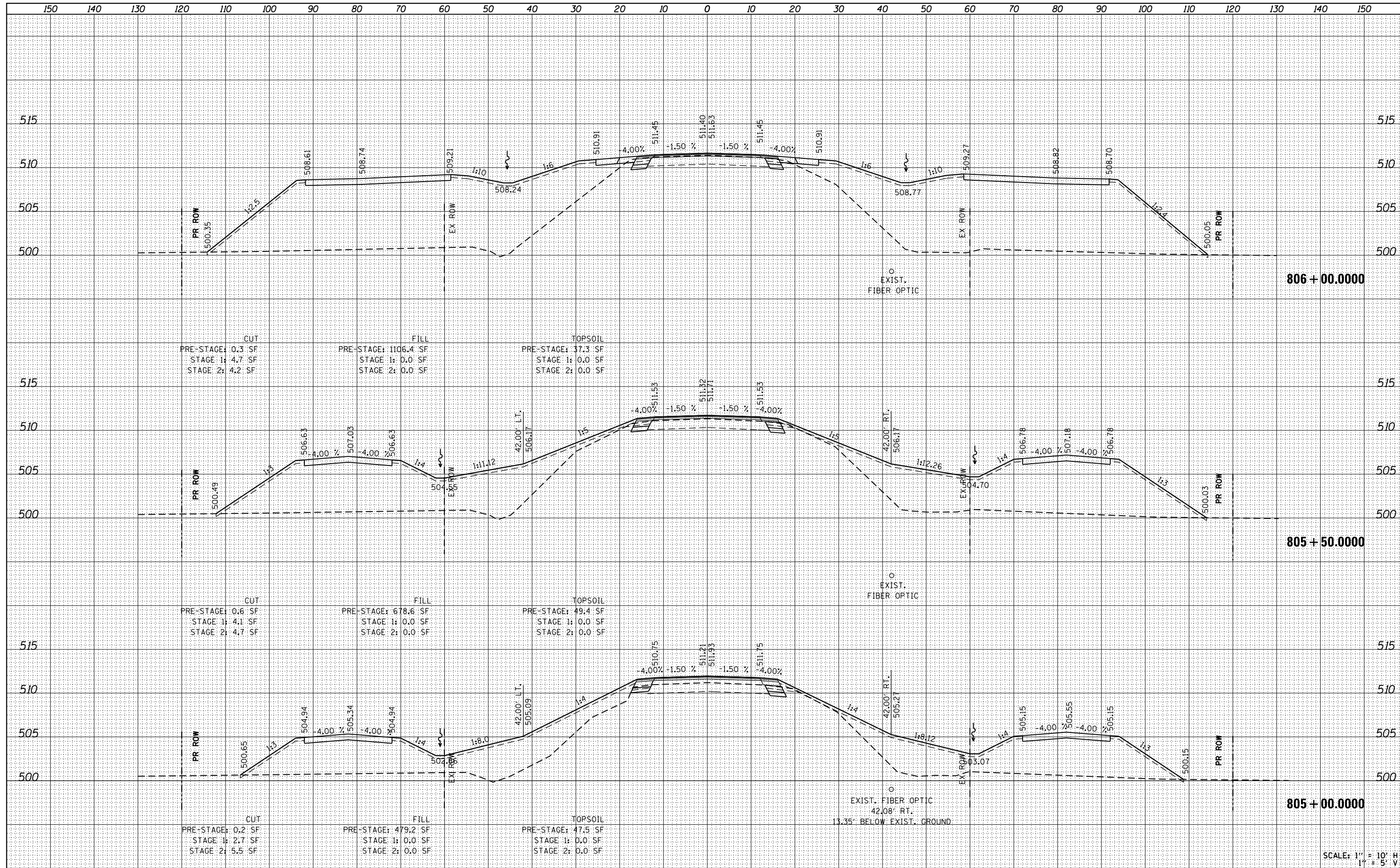
DATE	
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FILE NAME =	USER NAME = bemory	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\D468797-sht-xssh.d	DRAWN -	REVISED -	1388			(Z-1D-BR-1)BR	PEORIA	89	86	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 68697							
PLOT DATE = 3/20/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: 1" = 10' H 1" = 5' V						SCALE: 1:10H 1:5V		SHEET 10 OF 13 SHEETS		STA. 803+50.000 TO STA. 804+50.000

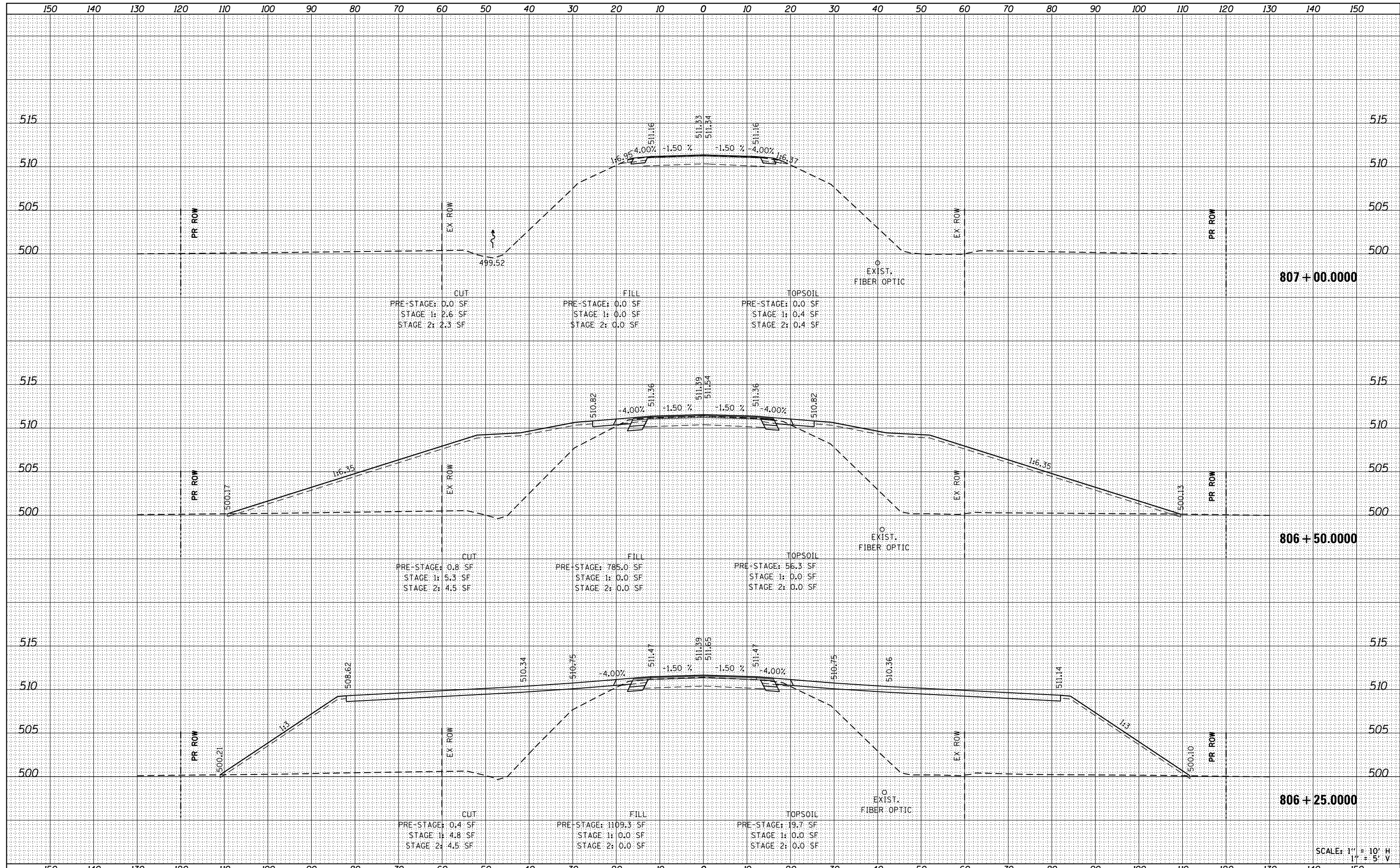
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



SCALE: 1" = 10' H
1" = 5' V

FILE NAME =	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL 8 OVER KICKAPOO CREEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\Projects\2008 Projects\08379 IL 8 over Kickapoo Creek\CV\CADD Sheets\D468797-sht-xssh.d	DRAWN -	REVISED -	1388			(Z-1D-BR-1)BR	PEORIA	89	88	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 68697							
PLOT DATE = 3/20/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: 1:10H 1:5V SHEET 12 OF 13 SHEETS STA. 806+38.8731 TO STA. 807+00.0000

