

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6-7 SCHEDULE OF QUANTITIES
- 8 TIE POINTS AND BENCHMARKS
- 9-10 PLAN AND PROFILE SHEETS
- 11 WIDE LOAD SIGNING PLAN
- 12-15 STAGE CONSTRUCTION SHEETS
- 16-17 EROSION CONTROL SHEETS
- 18-21 BRIDGE APPROACH PAVEMENT DETAILS
- 22-23 PAVEMENT MARKING SHEETS
- 24-45 ~~D~~ BRIDGE PLANS
- 46-52 EXISTING STRUCTURE PLANS
- 53-56 MAINLINE CROSS SECTIONS
- 57-60 CHANNEL CROSS SECTIONS

GENERAL NOTES:

1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN CIPS (ELECTRIC)
 - CALHOUN COUNTY RURAL WATER DISTRICT (WATER)
 - FRONTIER COMMUNICATIONS COMPANY
 - ILLINOIS RURAL ELECTRIC COOP.
 MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY *. NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
4. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT AND ALL INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE, 48".
5. A QUANTITY OF 737.5 FEET OF "TEMPORARY PAVEMENT MARKING - LINE 6 INCHES" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
6. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. THE REMOVAL OF THE BRIDGE APPROACH PAVEMENT IS INCLUDED IN THE COST OF "PAVEMENT REMOVAL."
8. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR I.T.S. UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
9. ALL EXISTING RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
2. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), EARTH MEDIAN AND/OR OTHER MATERIAL APPROVED BY THE EROSION AND SEDIMENT CONTROL COORDINATOR.
3. TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3 - REMOVE AT END OF CONSTRUCTION.
4. TEMPORARY SEEDING SHALL BE COMPLETED ON A WEEKLY BASIS ON EXPOSED GROUND AND SHALL BE PAID FOR AS "TEMPORARY EROSION CONTROL SEEDING" AND NO OTHER PAYMENT WILL BE PERMITTED. FOR CALCULATION PURPOSES, THREE APPLICATIONS OF TEMPORARY SEEDING WERE ASSUMED.
5. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE
6. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES 2.5 TO 1 AND STEEPER.
7. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
8. CLASS 2 SEEDING AND EROSION CONTROL BLANKET IS TO BE PLACED AS SOON AS EARTHWORK IS COMPLETED.

HIGHWAY STANDARDS

000001-05	631031-07	701901-01
280001-04	635006-03	704001-05
515001-03	635011-02	720001-01
630001-08	701306-02	720006-02
630301-05	701311-03	780001-02
601101-01	701321-10	781001-03
	701326-03	

COMMITMENTS

NONE

PERTINENT INFORMATION

THE RESIDENT ENGINEER SHALL CONTACT JAMES EWEN AT 618-232-1162 PRIOR TO CONSTRUCTION. MR. EWEN HAS FENCE ATTACHED TO ALL FOUR QUADRANTS OF THE STRUCTURE. HE WILL NEED TO REMOVE THE FENCE PRIOR TO CONSTRUCTION OF THIS PROJECT.

FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\p\dot\owenbj\dms63281\p\in02105a.dgn		DRAWN -	REVISED -			304	5A-BR	CALHOUN	60	2
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76886				
PLOT DATE = 12/10/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			80% FEDERAL 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			80% FEDERAL 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X071-2A			CODE NO	ITEM	UNIT		X071-2A		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20	20		50500505	STUD SHEAR CONNECTORS	EACH	2304	2304			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	52	52		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	55380	55380			
20200500	EARTH EXCAVATION (WIDENING)	CU YD	105	105		50800515	BAR SPLICERS	EACH	567	567			
20300100	CHANNEL EXCAVATION	CU YD	400	400		51201600	FURNISHING STEEL PILES HP12X53	FOOT	1200	1200			
20400800	FURNISHED EXCAVATION	CU YD	275	275		51202305	DRIVING PILES	FOOT	1200	1200			
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	148	148		51203600	TEST PILE STEEL HP12X53	EACH	4	4			
25000200	SEEDING, CLASS 2	ACRE	0.5	0.5		51204650	PILE SHOES	EACH	24	24			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45		51205200	TEMPORARY SHEET PILING	SQ FT	507	507			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45		51500100	NAME PLATES	EACH	1	1			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45		52100520	ANCHOR BOLTS, 1"	EACH	48	48			
25100115	MULCH, METHOD 2	ACRE	0.5	0.5		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	84	84			
25100630	EROSION CONTROL BLANKET	SQ YD	200	200		60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	160	160			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150		* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	300	300			
28000400	PERIMETER EROSION BARRIER	FOOT	1110	1110		* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
28100109	STONE RIPRAP, CLASS A5	SQ YD	1056	1056		* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
28200200	FILTER FABRIC	SQ YD	1056	1056		63200310	GUARDRAIL REMOVAL	FOOT	470	470			
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	430	430		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.1	0.1		67100100	MOBILIZATION	L SUM	1	1			
40600300	AGGREGATE (PRIME COAT)	TON	1	1		70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD T01326	L SUM	1	1			
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	23	23		70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD T01321 (SPECIAL)	EACH	1	1			
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	231	231		70106600	TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)	EACH	1	1			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	46	46		70106700	TEMPORARY RUMBLE STRIP	EACH	6	6			
44000100	PAVEMENT REMOVAL	SQ YD	220	220		70300100	SHORT-TERM PAVEMENT MARKING	FOOT	124	124			
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	270	270		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2652	2652			
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	90	90		70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	737.5	737.5			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	925	925			
50200100	STRUCTURE EXCAVATION	CU YD	231	231		70400100	TEMPORARY CONCRETE BARRIER	FOOT	425	425			
50300225	CONCRETE STRUCTURES	CU YD	149	149		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	177.5	177.5		* 72000100	SIGN PANEL - TYPE 1	SQ FT	6	6			
50300260	BRIDGE DECK GROOVING	SQ YD	478	478		* 73000100	WOOD SIGN SUPPORT	FOOT	10	10			
50300280	CONCRETE ENCASEMENT	CU YD	8.4	8.4		* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1990	1990			
50300300	PROTECTIVE COAT	SQ YD	624	624		* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	662	662			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1	1			

*SPECIALTY ITEMS

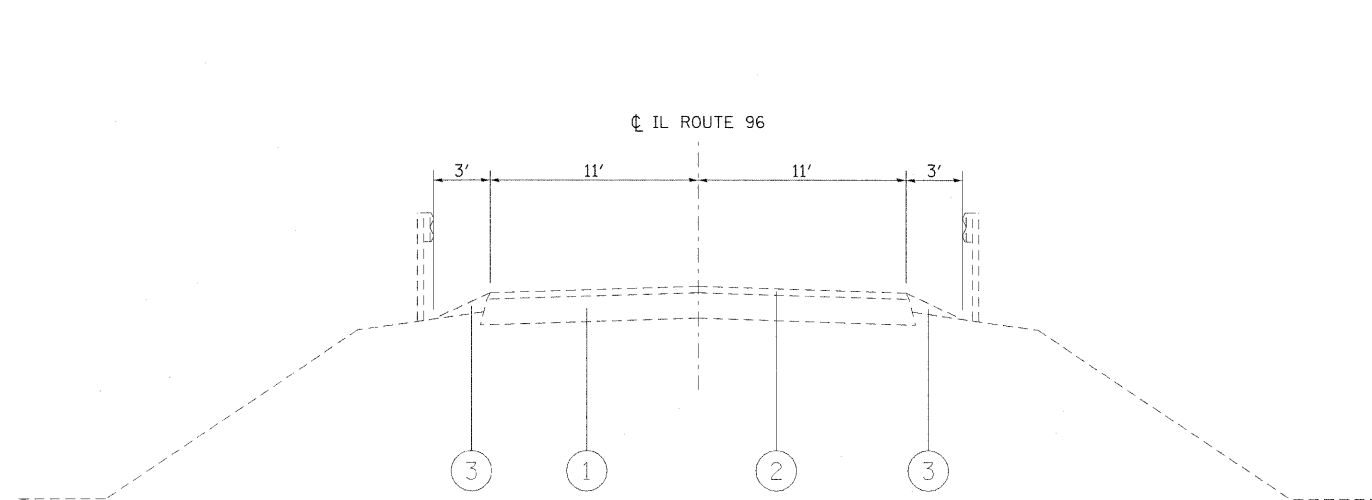
FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\owenbj\dms63281\pIn22105a.dgn		DRAWN -	REVISED -			304	5A-BR	CALHOUN	60	3
PLOT SCALE = 50.0000 "/ IN.		CHECKED -	REVISED -			CONTRACT NO. 76886				
PLOT DATE = 12/10/2008		DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

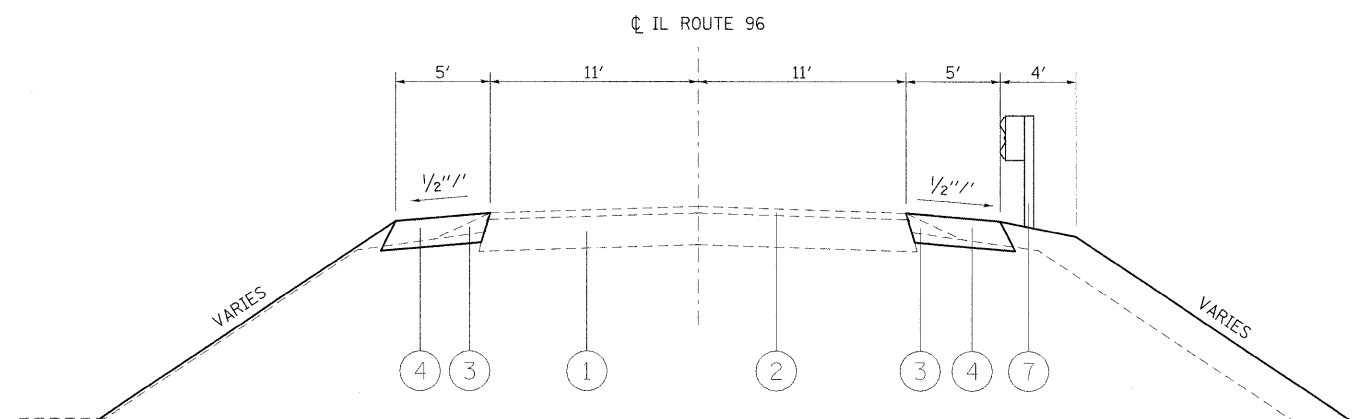
SUMMARY OF QUANTITIES			80% FEDERAL 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X071-2A			CODE NO	ITEM	UNIT				
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3									
* 78100300	REPLACEMENT REFLECTOR	EACH	6	6									
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8									
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	3	3									
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	3	3									
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4									
78300100	PAVEMENT MARKING REMOVAL	SQ FT	884	884									
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8									
X0321781	MECHANICAL SPLICE	EACH	36	36									
X0323830	DRAINAGE SCUPPERS, DS-11	EACH	1	1									
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	1									
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	1									
X7200200	WIDE LOAD SIGNING	L SUM	1	1									
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2									
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2									

*SPECIALTY ITEMS

FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\owenbj\dms63281\p1n0205a.dgn		DRAWN -	REVISED -			304	5A-BR	CALHOUN	60	4
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -						CONTRACT NO. 76886	
	PLOT DATE = 12/10/2008	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



EXISTING TANGENT SECTION
STA. 471+50 TO STA. 473+49.27



PROPOSED TANGENT SECTION
STA. 471+90(RT) / 472+50(LT) TO STA. 473+49.27

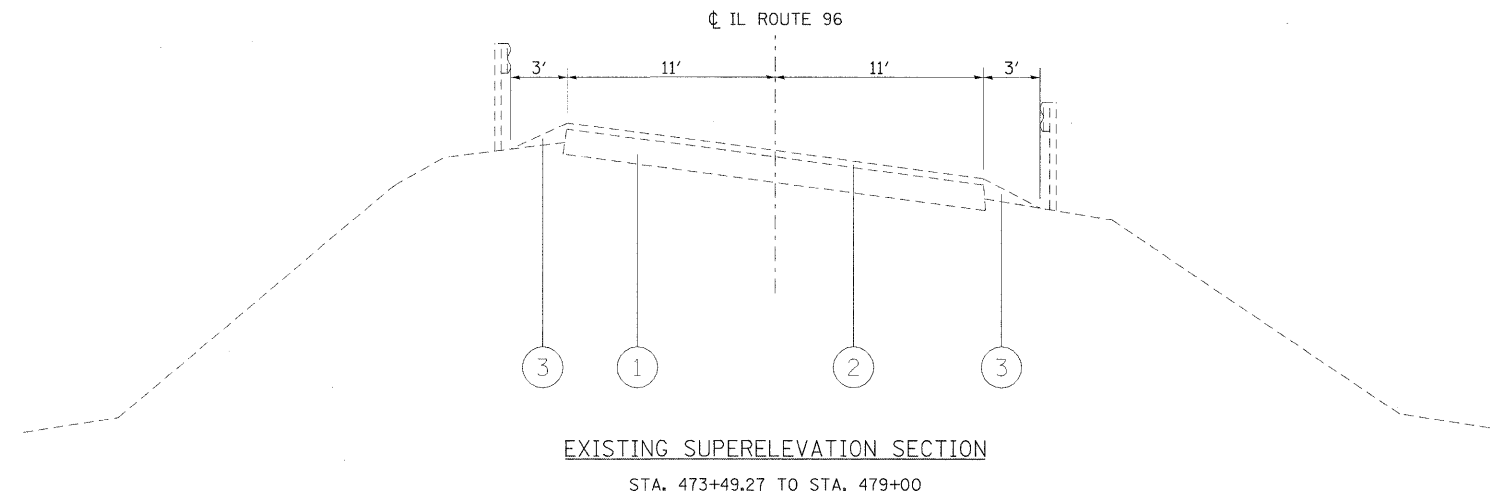
MIXTURE CHART

MIXTURE USE	SURFACE	BINDER / WIDENING
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10%	15%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 12.5	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "B"

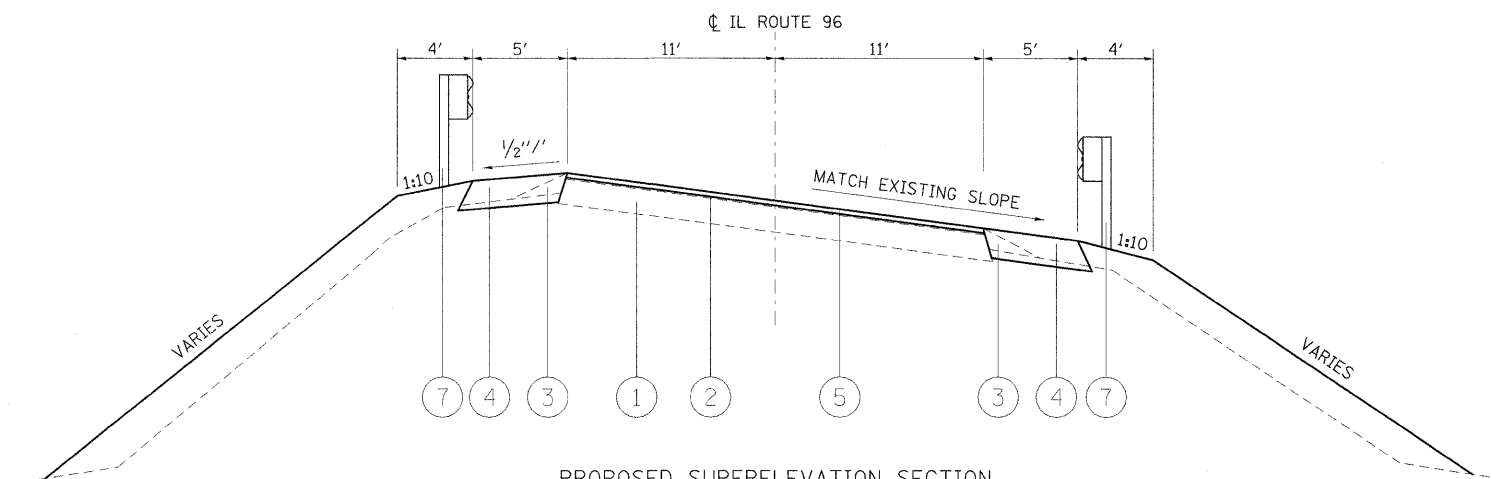
PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

LEGEND

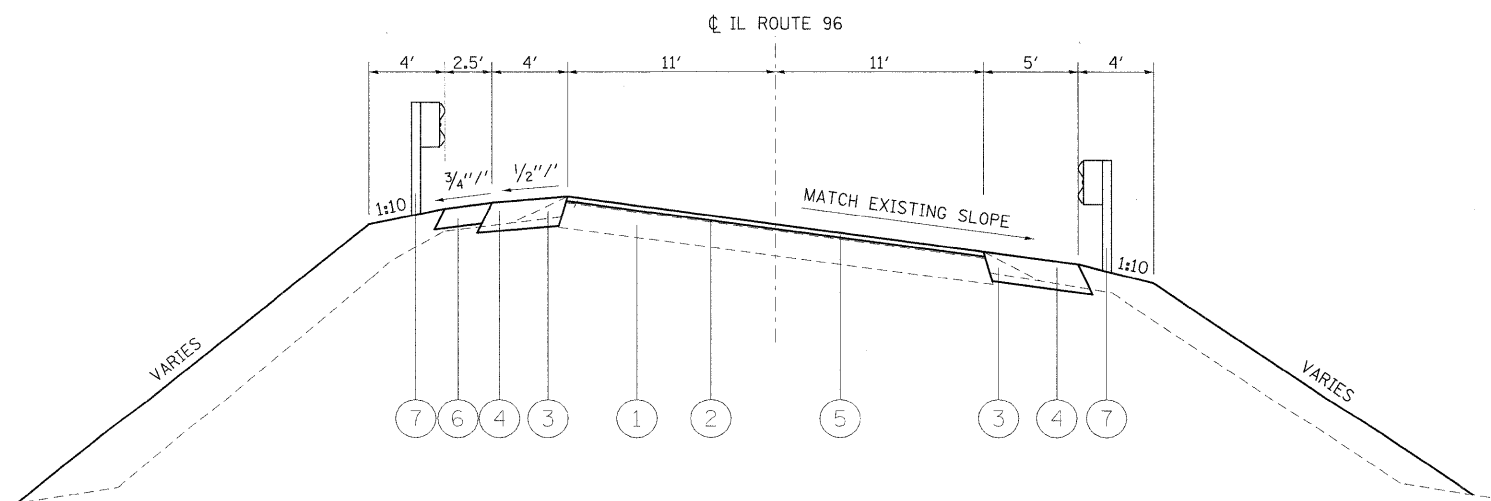
- ① EXISTING PAVEMENT
- ② EXISTING HMA OVERLAY
- ③ EXISTING AGGREGATE SHOULDER
- ④ PROPOSED HMA BASE COURSE WIDENING - 9"
- ⑤ PROPOSED HMA SURFACE COURSE
- ⑥ PROPOSED AGGREGATE SHOULDER - 6"
- ⑦ PROPOSED GUARDRAIL



EXISTING SUPERELEVATION SECTION
STA. 473+49.27 TO STA. 479+00



PROPOSED SUPERELEVATION SECTION
STA. 473+49.27 TO STA. 474+12.5



PROPOSED SUPERELEVATION SECTION
STA. 476+23 TO STA. 478+00
SURFACE FROM STA. 473+23 TO STA. 476+80

SEE PLAN SHEETS AND SCHEDULES FOR GUARDRAIL STATIONS

EARTHWORK SCHEDULE

LOCATION		EARTH EXCAVATION (WIDENING)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO STATION	CU YD	CU YD	CU YD	CUYD
STA 471+50.00	TO STA 472+00.00	1.6	1.2	3.9	-2.7
STA 472+00.00	TO STA 472+50.00	7.2	5.5	16.0	-10.6
STA 472+50.00	TO STA 473+00.00	14.2	10.8	20.8	-9.9
STA 473+00.00	TO STA 43+30.90	8.8	6.7	11.7	-5.0
STA 43+30.90	TO STA 473+50.00	5.5	4.1	6.9	-2.8
STA 473+50.00	TO STA 474+00.00	14.2	10.8	18.0	-7.1
STA 474+00.00	TO STA 474+30.00	3.7	2.8	29.1	-26.3
STA 474+30.00	TO STA 474+50.45	0.0	0.0	31.2	-31.2
STA 475+87.66	TO STA 476+00.00	0.0	0.0	14.7	-14.7
STA 476+00.00	TO STA 476+50.00	7.4	5.7	48.2	-42.5
STA 476+50.00	TO STA 477+00.00	14.2	10.8	47.3	-36.5
STA 477+00.00	TO STA 477+50.00	14.2	10.8	62.8	-52.1
STA 477+50.00	TO STA 478+00.00	14.2	10.8	38.9	-28.1
STA 478+00.00	TO STA 478+50.00	0.0	0.0	5.5	-5.5
SUBTOTAL		105	80	355	-275

CHANNEL EXCAVATION SCHEDULE

LOCATION		CHANNEL EXCAVATION	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	CHANNEL EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO STATION	CU YD	CU YD	CU YD	CUYD
STA 0+00.00	TO STA 0+10.00	71.3	53.4	3.0	50.5
STA 0+10.00	TO STA 0+20.00	51.5	38.6	6.3	32.3
STA 0+20.00	TO STA 0+30.00	55.6	41.7	7.6	34.1
STA 0+30.00	TO STA 0+40.00	57.9	43.4	6.2	37.3
STA 0+40.00	TO STA 0+50.00	43.6	32.7	16.8	15.9
STA 0+50.00	TO STA 0+60.00	27.3	20.5	18.5	2.0
STA 0+60.00	TO STA 0+70.00	23.0	17.2	5.2	12.0
STA 0+70.00	TO STA 0+80.00	26.0	19.5	3.2	16.2
STA 0+80.00	TO STA 0+90.00	23.4	17.6	2.4	15.2
STA 0+90.00	TO STA 1+00.00	15.4	11.6	0.8	10.7
STA 1+00.00	TO STA 1+10.00	5.0	3.8	0.0	3.8
SUBTOTAL		400	300	70	230

EROSION CONTROL SCHEDULE

LOCATION		RIGHT OR LEFT	PERIMETER EROSION BARRIER FOOT	EROSION CONTROL BLANKET SQ YD
STA 471+46	TO STA 474+24	RT	307	
STA 472+00	TO STA 473+16	LT	125	
STA 473+50	TO STA 478+42	LT	392	
STA 474+00	TO STA 474+50	RT		55
STA 475+82	TO STA 478+42	RT	286	
STA 475+88	TO STA 477+25	LT		145
TOTAL			1110	200

TREE REMOVAL SCHEDULE

LOCATION		RIGHT OR LEFT	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)
474+27	41'	RT		28
475+61	40'	RT	10	
475+67	44'	RT	10	
475+87	39'	RT		24
TOTAL			20	52

RESURFACING SCHEDULE

LOCATION		BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT SURFACE REMOVAL	AGGREGATE SHOULDERS, TYPE A 6"
STA 473+60.0	TO STA 474+12.6	0.04	0.19	11	130	
STA 476+22.9	TO STA 476+80.0	0.04	0.21	12	140	90
TOTAL		0.08	0.40	23	270	90
ROUNDING		0.10	1			

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKING				POLYUREA PAVEMENT MARKING				PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	REPLACEMENT REPLECTOR 2-WAY AMBER	RAISED REFLECTIVE PAVEMENT MARKER 2-WAY AMBER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) 2-WAY AMBER	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING			
	SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE		SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE								SKIP-DASH CENTERLINE 4" YELLOW	SOLID CENTERLINE 4" YELLOW	EDGE LINE 4" WHITE	
			LT	RT			LT	RT									LT	RT
STATION TO STATION	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT
STA 471+57.00 TO STA 474+19.70	70	263	262.7	262.7					286	4	3			40	70	263	262.7	262.7
STA 474+19.70 TO STA 475+87.60					40	168	168	168	181				3	29	40	168	168	168
STA 475+87.60 TO STA 476+17.10						59	29.5	29.5	39					6		59	29.5	29.5
STA 476+17.10 TO STA 479+00.00		566	282.8	282.8					377	4	3	1		49		566	282.8	282.8
SUB-TOTAL	70	829	545.5	545.5	40	227	197.5	197.5							110	1056	743	743
TOTAL		1990				662			884	8	6	1	3	124		2652		

STAGING SCHEDULE

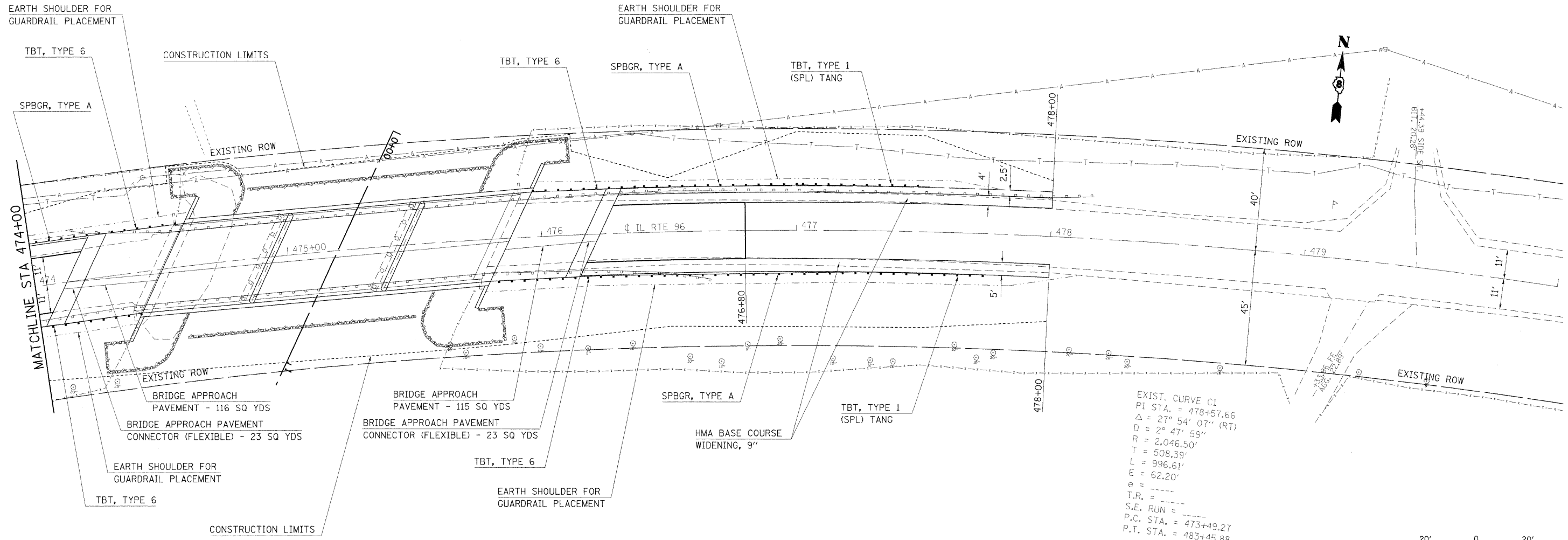
LOCATION	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	PAVEMENT REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)	TEMPORARY PAVEMENT MARKING - LINE 6"
	SQ YD	SQ YD	FOOT	FOOT	EACH	EACH	FOOT
STAGE I	208	85	425		2		425
STAGE II	222	135		312.5		2	312.5
TOTAL	430	220	425	312.5	2	2	737.5

GUARDRAIL SCHEDULE

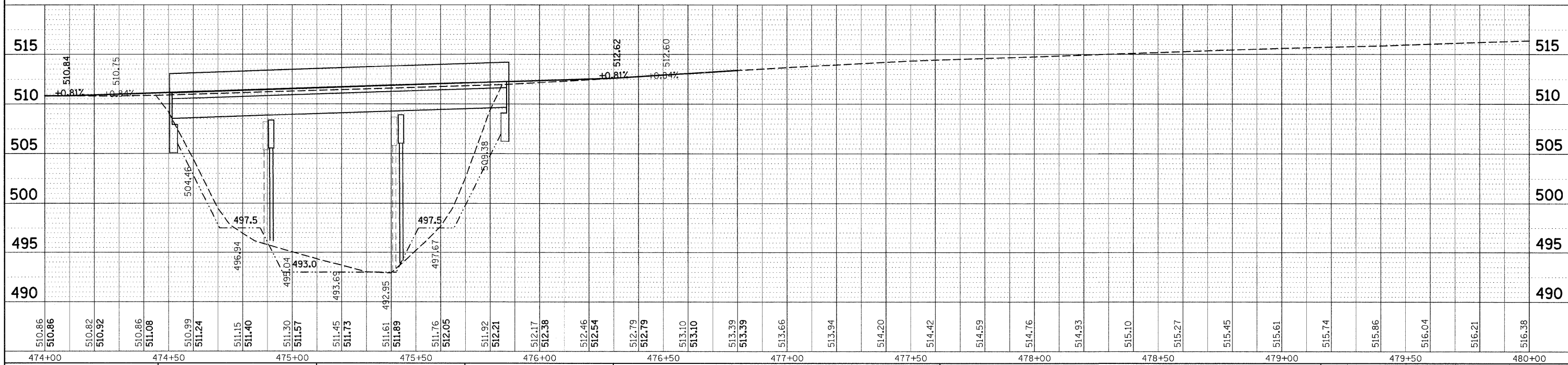
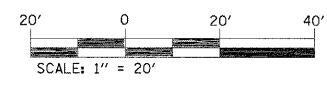
LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER - DIRECT APPLIED
	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
NORTH SIDE					3	1	1	
SOUTH SIDE					5	2	2	
NW QUADRANT	40	0	1	1				1
NE QUADRANT	225	62.5	1	1				1
SW QUADRANT	115	137.5	1	1				1
SE QUADRANT	90	100	1	1				1
TOTAL	470	300	4	4	8	3	3	4

PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. FILE NAME

FILE SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. FILE NAME



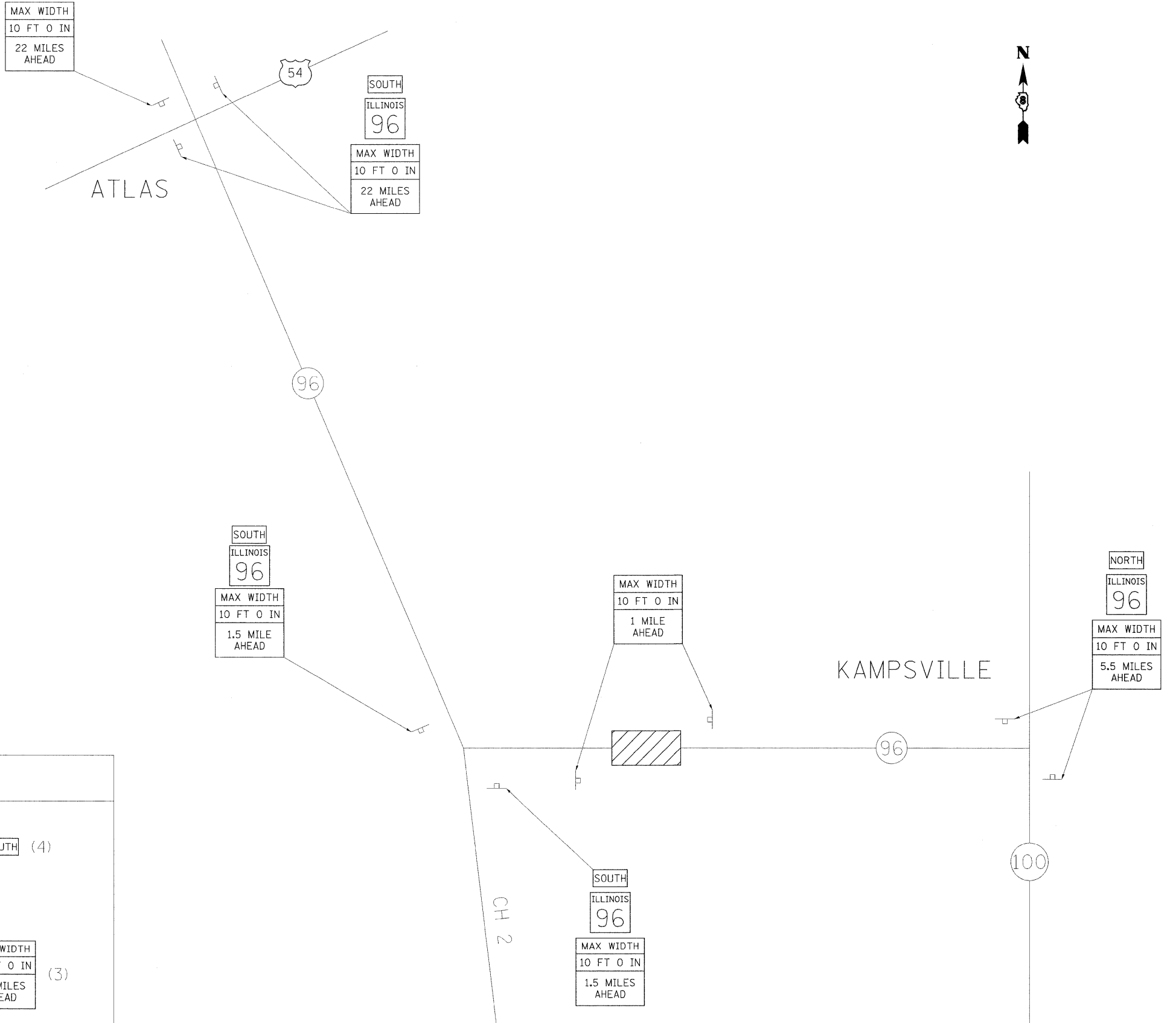
EXIST. CURVE C1
 PI STA. = 478+57.66
 $\Delta = 27^\circ 54' 07''$ (RT)
 $D = 2^\circ 47' 59''$
 $R = 2,046.50'$
 $T = 508.39'$
 $L = 996.61'$
 $E = 62.20'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 473+49.27
 P.T. STA. = 483+45.88



FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\puidot\owenbj\dms62281\p1npr02	05a1.dgn	CHECKED -	REVISED -			304	5A-BR	CALHOUN	60	10	
PLOT SCALE = 20.0000' / IN.		DRAWN -	REVISED -			CONTRACT NO. 76886					
PLOT DATE = 12/10/2008		CHECKED -	REVISED -			SCALE: 20 SHEET NO. 2 OF 2 SHEETS STA. 474+00 TO STA. 480+00					

NOTES

- ① ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- ② THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- ③ THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE (618) 346-3289.
- ④ THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- ⑤ SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- ⑥ THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL BE NOT LESS THAN 6'.



SIGNS REQUIRED

ILLINOIS 96 (6)

NORTH (2)

SOUTH (4)

MAX WIDTH
10 FT 0 IN
1 MILE AHEAD (2)

MAX WIDTH
10 FT 0 IN
1.5 MILES AHEAD (2)

MAX WIDTH
10 FT 0 IN
5.5 MILES AHEAD (2)

MAX WIDTH
10 FT 0 IN
22 MILES AHEAD (3)

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

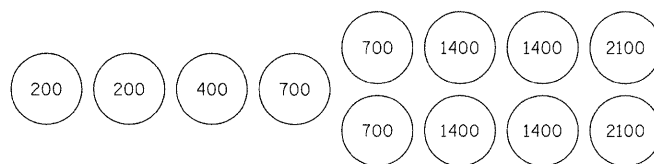
WIDE LOAD SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

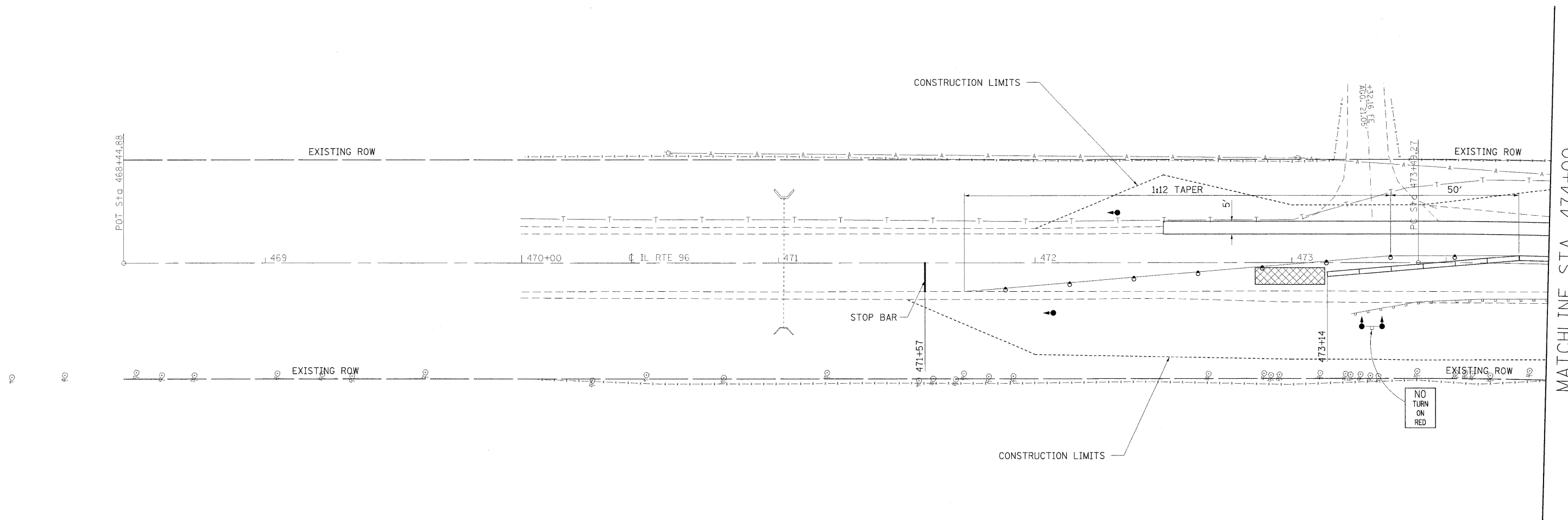
F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76886	

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS



SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)



SEQUENCE OF CONSTRUCTION - STAGE I:

PLACE "HMA BASE COURSE WIDENING - 9 INCHES" ON NORTH SIDE OF ROADWAY FOR STAGE I TRAFFIC AS A PRE-STAGE TO STAGE I.

PLACE STOP BARS AS SHOWN ON PLANS.

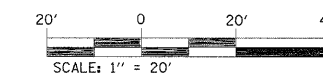
REMOVE SKIP-DASH AND CONFLICTING SOLID EDGE PAVEMENT MARKINGS BETWEEN STOP BARS.

PLACE 425 FT TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATORS, TEMPORARY.

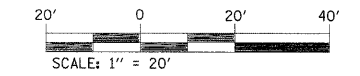
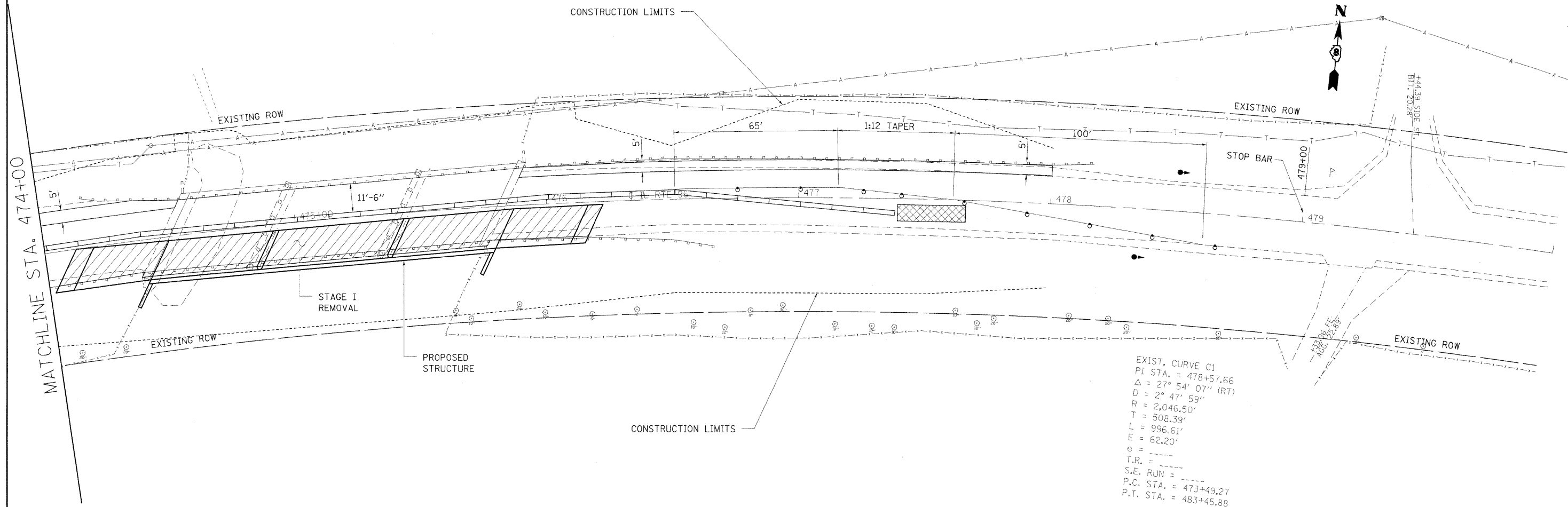
SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

PERFORM ALL NECESSARY BRIDGE WORK IN STAGE I WORK ZONE.

PLACE "HMA BASE COURSE WIDENING - 9 INCHES" ON SOUTH SIDE OF ROADWAY FOR STAGE II TRAFFIC AS A PRE-STAGE TO STAGE II.







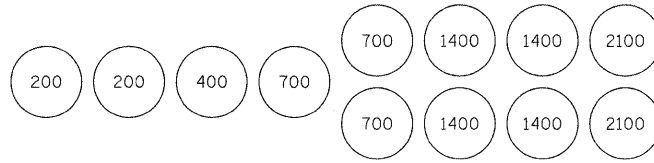
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#FILE#		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. 468+00 TO STA. 474+00	304	5A-BR	CALHOUN	60	12
		CHECKED -	REVISED -					CONTRACT NO. 76886				
		DATE -	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



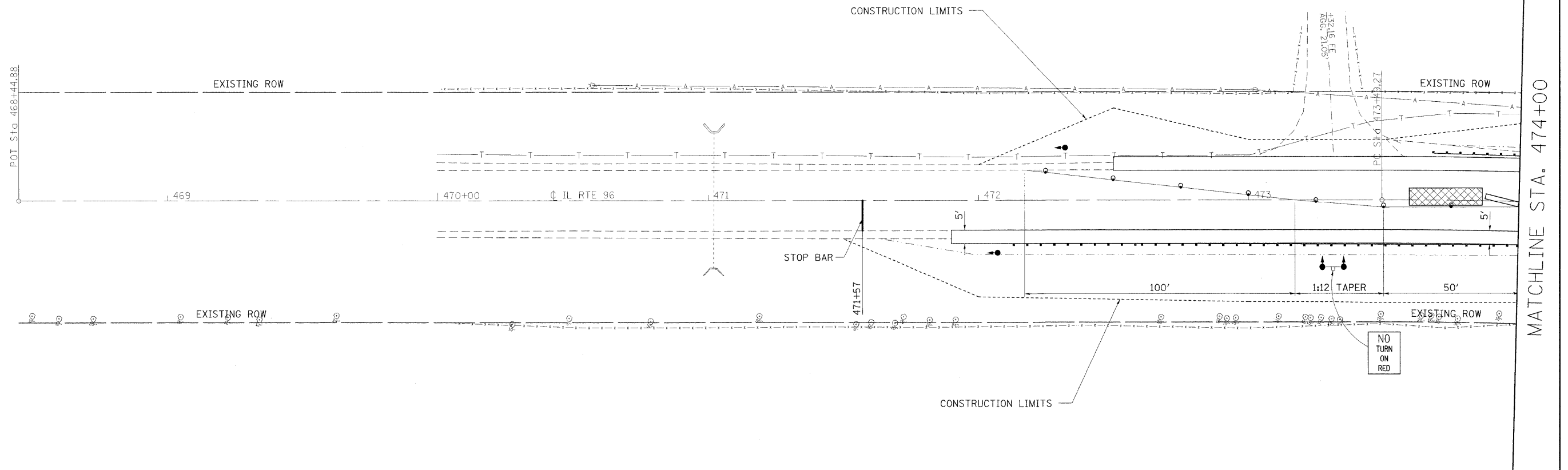
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PLOT SCALE = 20,0000 1/ IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. 2 OF 4 SHEETS	STA. 474+00 TO STA. 480+00	CONTRACT NO. 76886				
PLOT DATE = 12/18/2009	DATE	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS



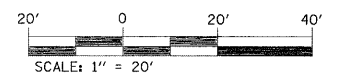
SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)



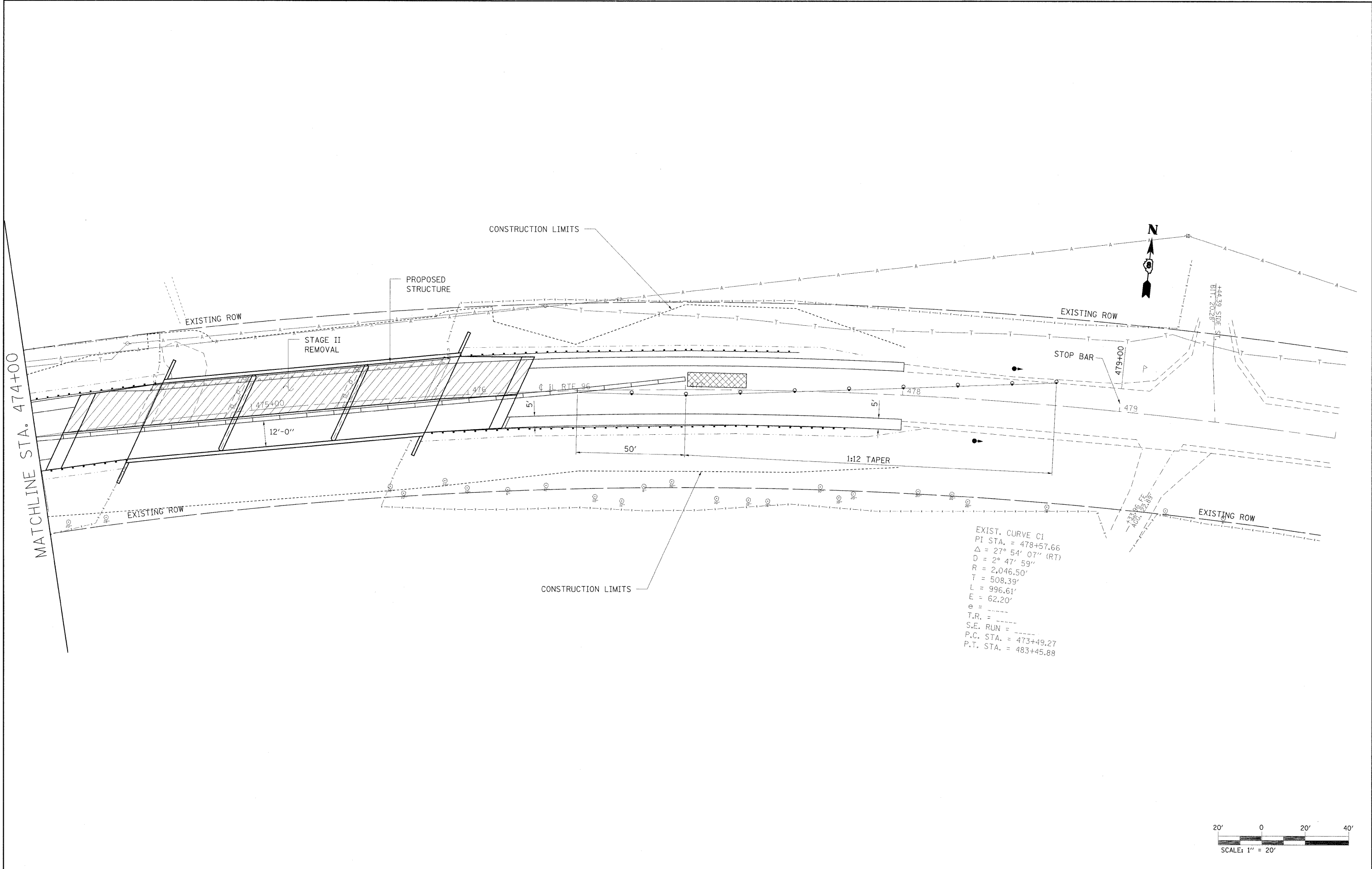
SEQUENCE OF CONSTRUCTION - STAGE II:

RELOCATE 312.5 FT OF TEMPORARY CONCRETE BARRIER AND RELOCATE 2 EACH IMPACT ATTENUATORS.

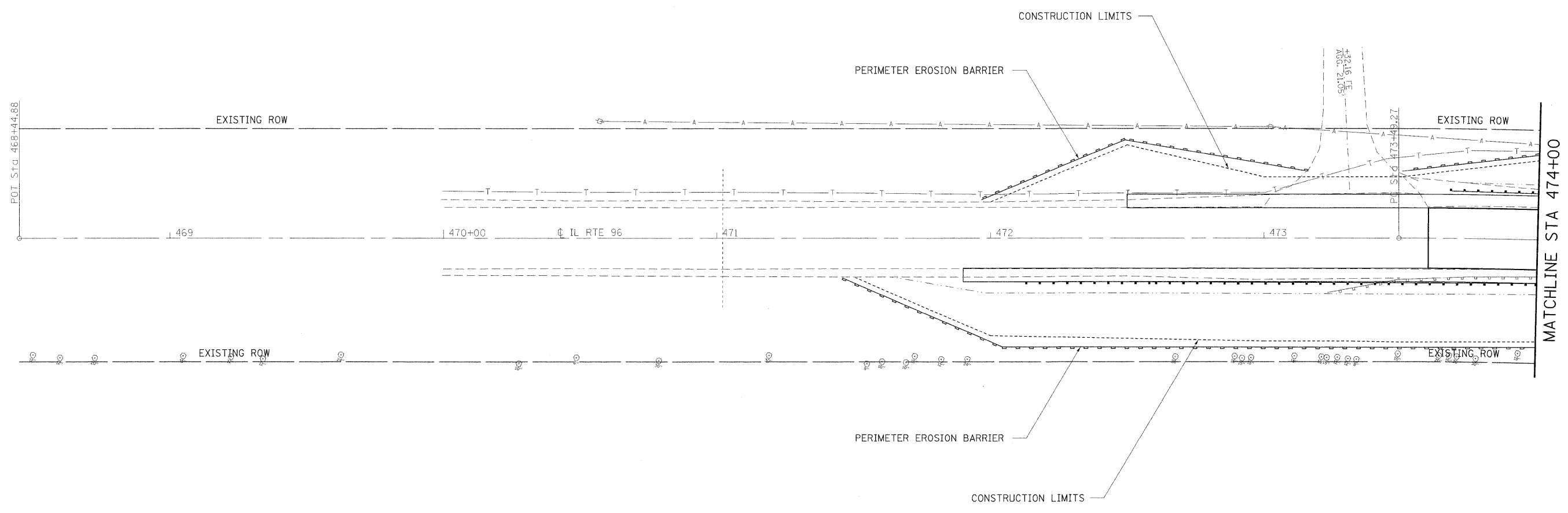
SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.



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	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SCALE: SHEET NO. 3 OF 4 SHEETS STA. 468+00 TO STA. 474+00	CONTRACT NO. 76886		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		
	PLOT DATE = #DATE#	DATE -	REVISED -							



FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\owenbj\dms63281\stg02\05_5.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. 474+00 TO STA. 480+00	304	5A-BR	CALHOUN	60	15
		CHECKED -	REVISED -		CONTRACT NO. 76886							
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



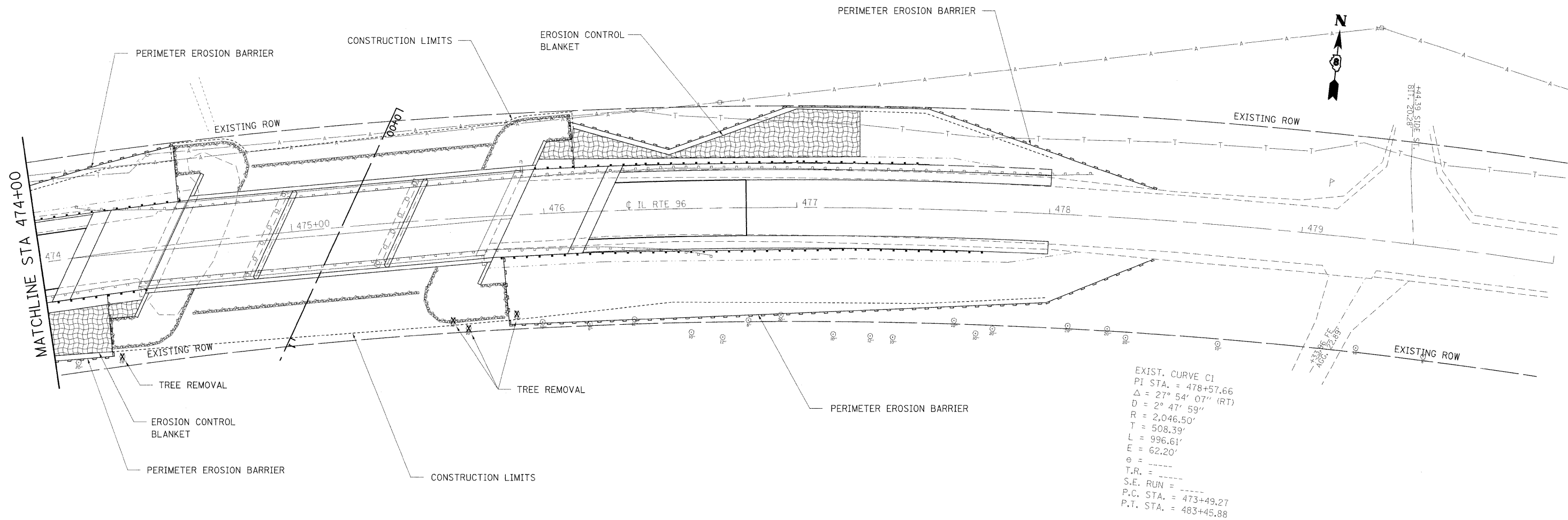
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er:\pw\work\pwidot\owenbj\dms63281\pin02	05a.dgn
PLOT SCALE = 20.0000' / IN.	
PLOT DATE = 12/10/2008	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL		
SCALE:	SHEET NO. 1 OF 2 SHEETS	STA. 468+00 TO STA. 474+00

F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 16
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 76886				



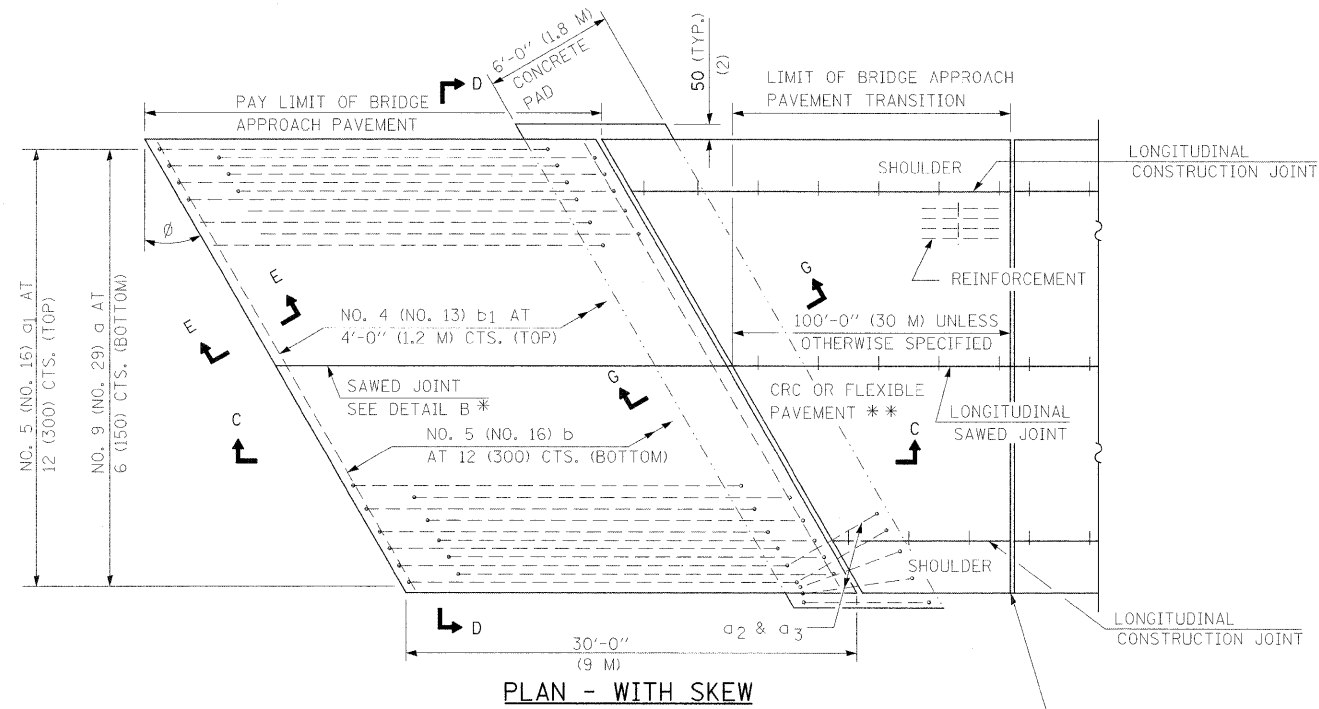
FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -
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PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 12/10/2008		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

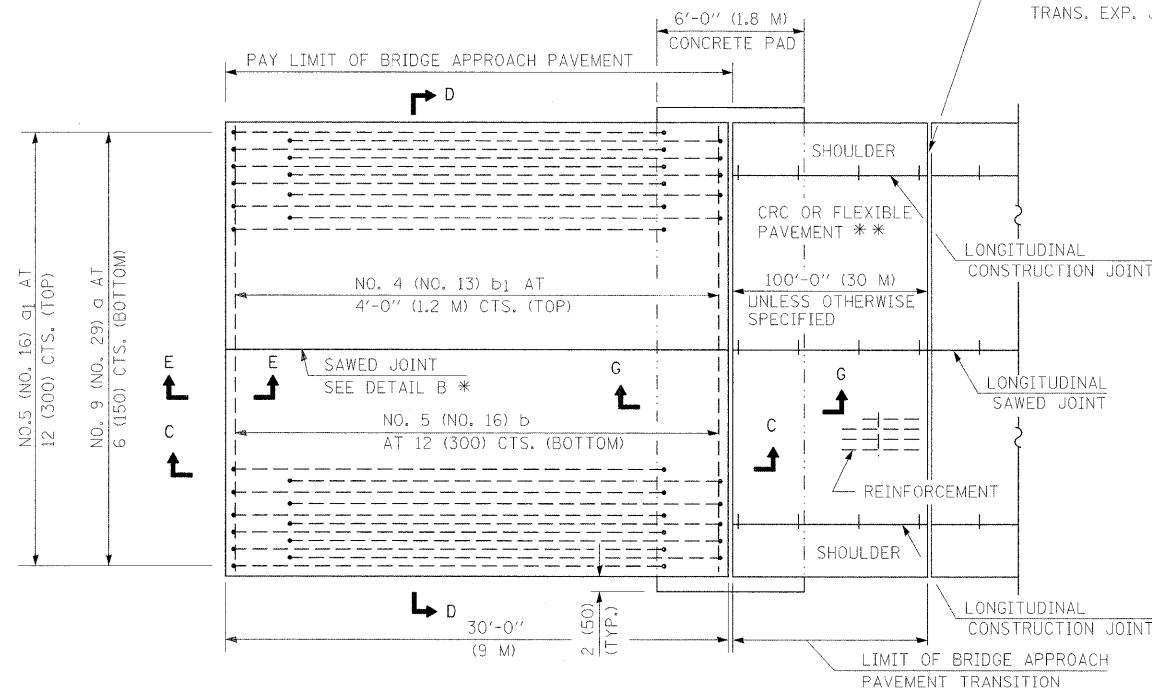
EROSION CONTROL		
SCALE:	SHEET NO. 2 OF 2 SHEETS	STA. 474+00 TO STA. 480+00

F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76886	

NEW CONSTRUCTION

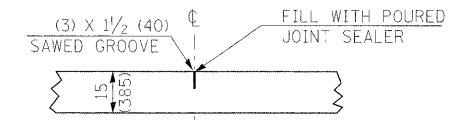


PLAN - WITH SKEW

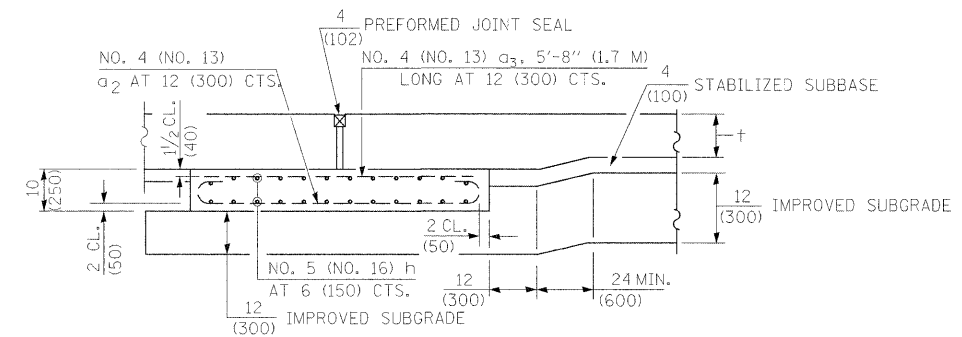


PLAN - WITHOUT SKEW

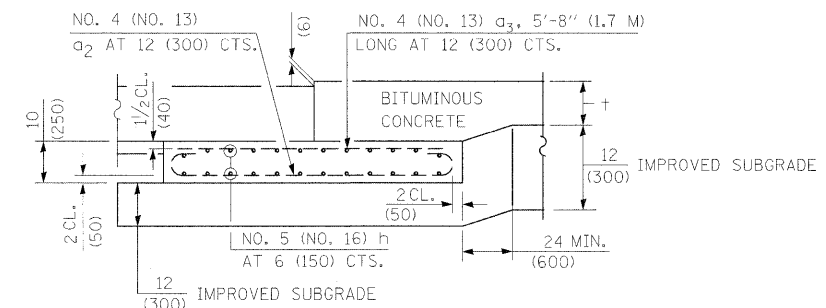
RIGID PAVEMENT ONLY:
 WIDE FLANGE BEAM TERMINAL JOINT (SEE DETAIL AT BEAM - STANDARD 421101 OR 421106) OR 2 (50) TRANS. EXP. JOINT AS DETAILED ON STANDARD 420001.



DETAIL B*
 (REINFORCEMENT NOT SHOWN)



SECTION G-G - RIGID PAVEMENT
 (SHOWING REINFORCEMENT)



SECTION G-G - FLEXIBLE PAVEMENT
 (SHOWING REINFORCEMENT)

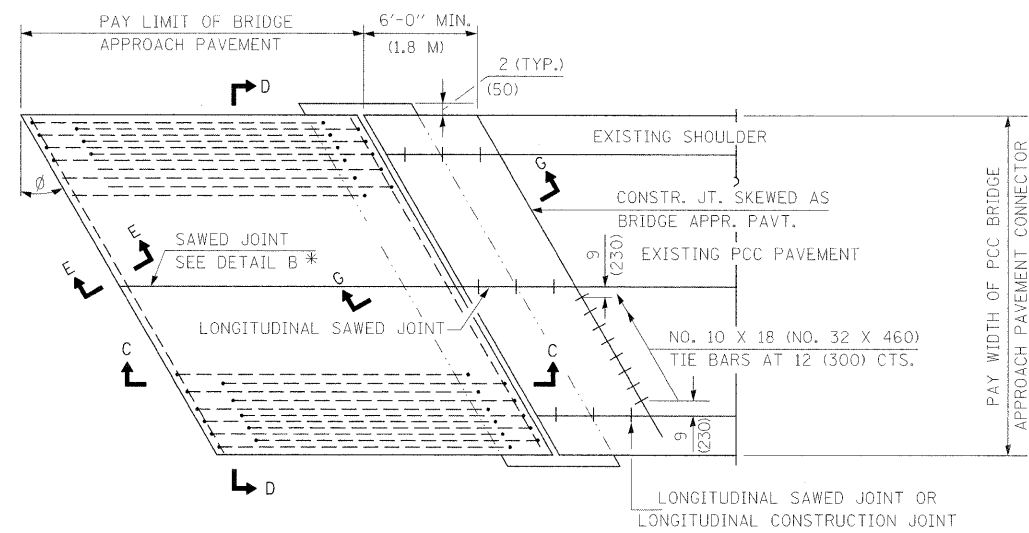
GENERAL NOTES

- THICKNESS-"t"=THICKNESS OF PAVEMENT.
- SEE STANDARD 421001 FOR REINFORCEMENT DETAILS NOT SHOWN.
- SEE STANDARD 420001 FOR JOINT DETAILS NOT SHOWN.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

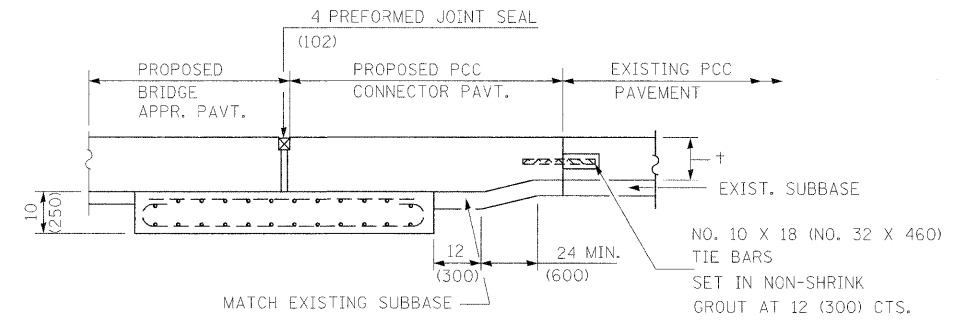
* SAW ϕ OR LANE EDGE IF Poured TWO OR MORE LANE WIDTHS AT A TIME.
 ** OMIT REINFORCEMENT, TIE BARS AND LONG. SAWED JT. FOR FLEXIBLE PAVEMENT.

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 18	
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -			SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = #DATE#	CHECKED -	REVISED -								
		DATE -	REVISED -								CONTRACT NO. 76886

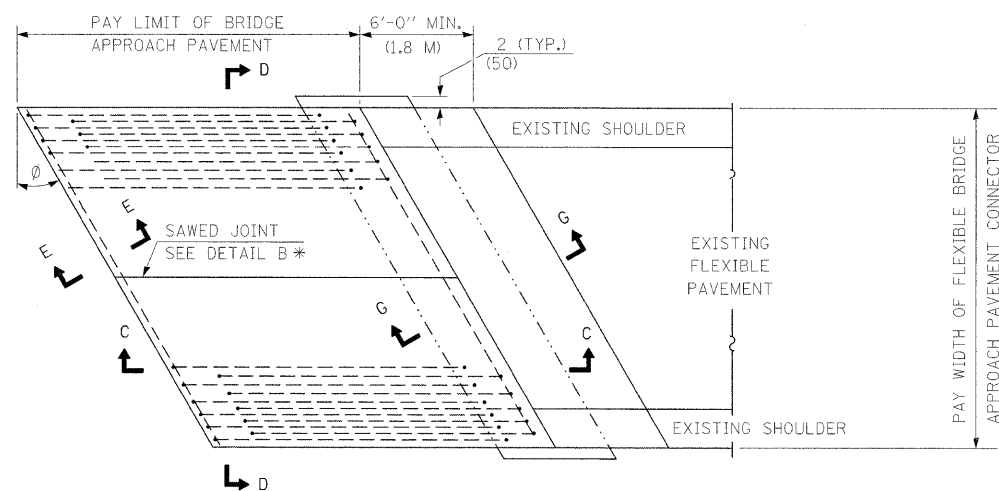
EXISTING CONSTRUCTION



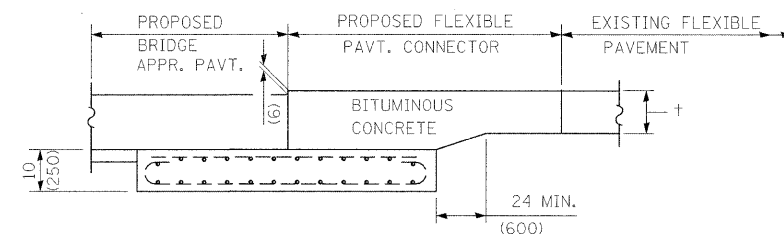
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

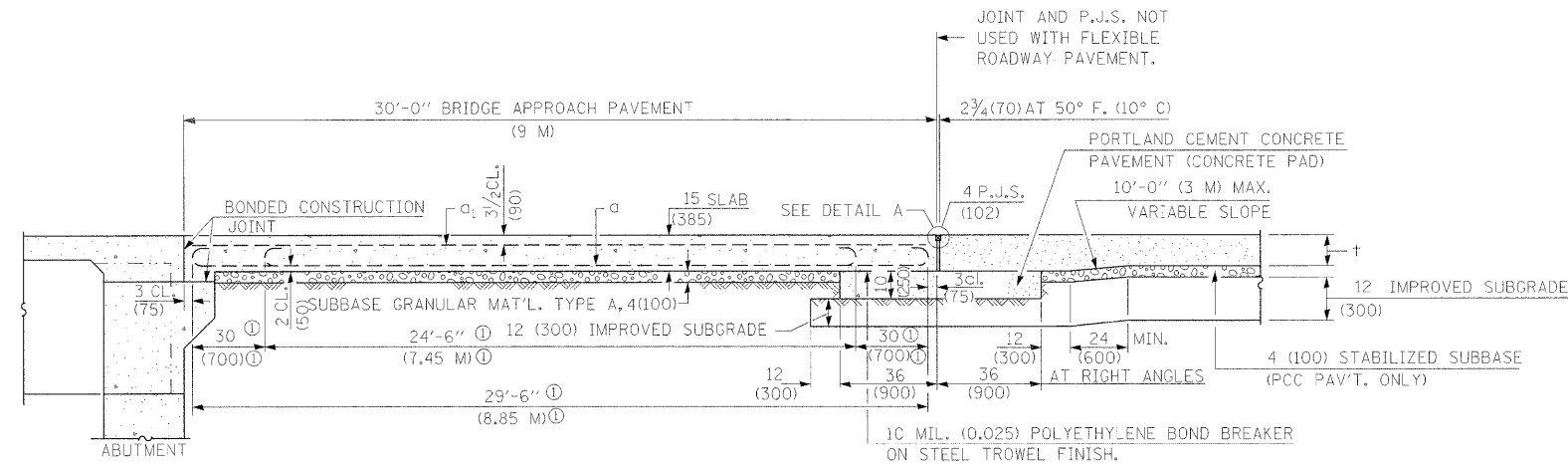


SECTION G-G - FLEXIBLE PAVEMENT

GENERAL NOTES

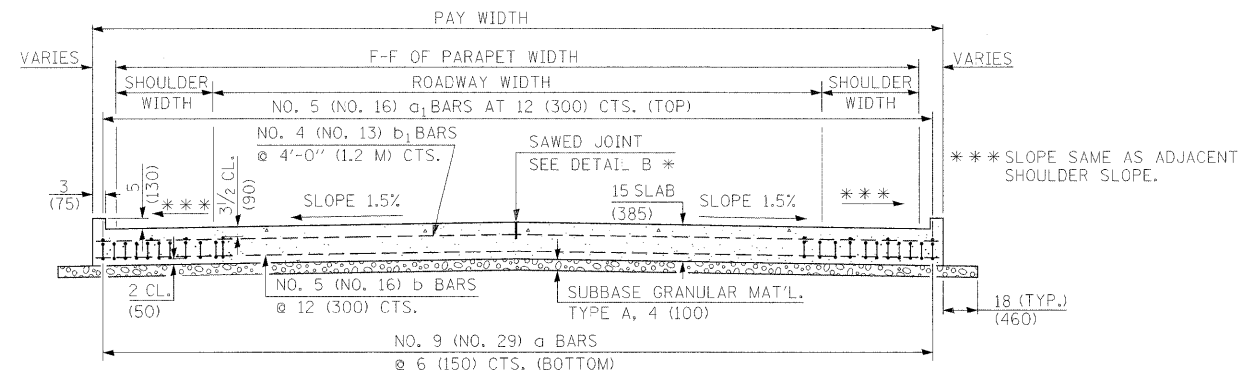
- THICKNESS-"t"=THICKNESS OF PAVEMENT.
- SEE STANDARD 421001 FOR REINFORCEMENT DETAILS NOT SHOWN.
- SEE STANDARD 420001 FOR JOINT DETAILS NOT SHOWN.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 19	
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	PLOT DATE = #DATE#	CHECKED -	REVISED -								
		DATE	REVISED -								CONTRACT NO. 76886



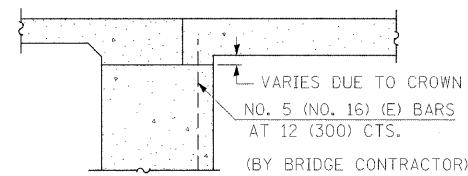
SECTION C-C

① STAGGER NO. 9 (NO. 29) A BARS AS SHOWN ON PLAN - FULL WIDTH



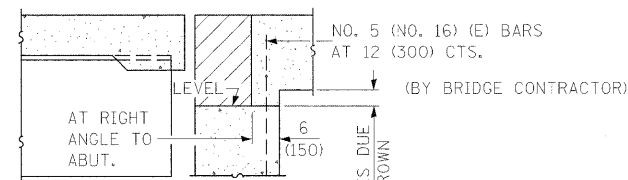
SECTION D-D

(SEE PLAN FOR DIMENSIONS NOT SHOWN)



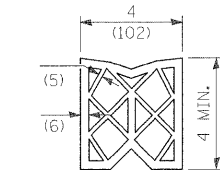
SECTION E-E

(INTEGRAL ABUTMENTS)

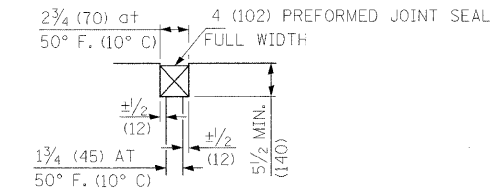


SECTION E-E

(JOINTED ABUTMENTS)

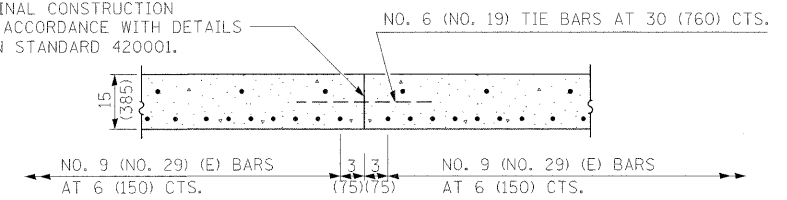


PREFORMED JOINT SEAL



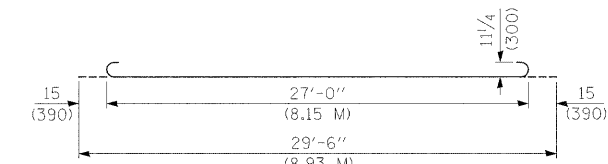
DETAIL A

LONGITUDINAL CONSTRUCTION JOINT IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD 420001.

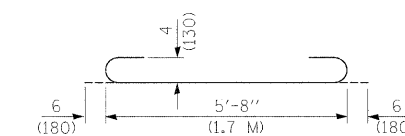


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

AS APPROVED BY THE ENGINEER, THE CONTRACTOR MAY ELECT TO REDUCE THE WIDTHS OF POUR BY USE OF THE OPTIONAL LONGITUDINAL CONSTRUCTION JOINT SHOWN. JOINTS SHALL BE LOCATED AT THE EDGE OF A TRAFFIC LANE.



BAR a



BAR a2

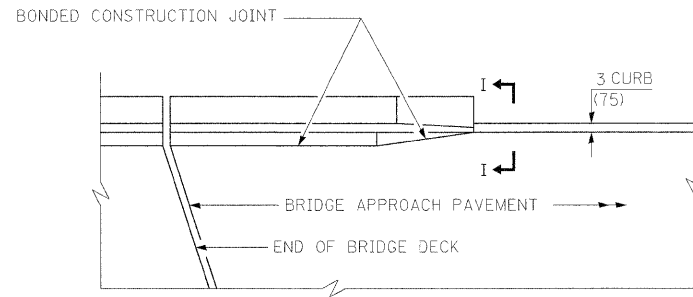
DESIGN STRESSES

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 $f'_c = 3,500$ P.S.I. (24 MPA)
 $n = 8.5$

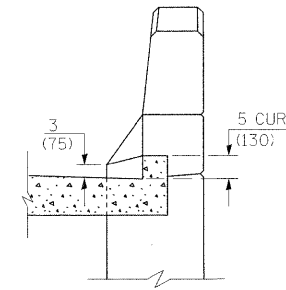
GENERAL NOTES

- THICKNESS-"+"=THICKNESS OF PAVEMENT.
- SEE STANDARD 421001 FOR REINFORCEMENT DETAILS NOT SHOWN.
- SEE STANDARD 420001 FOR JOINT DETAILS NOT SHOWN.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

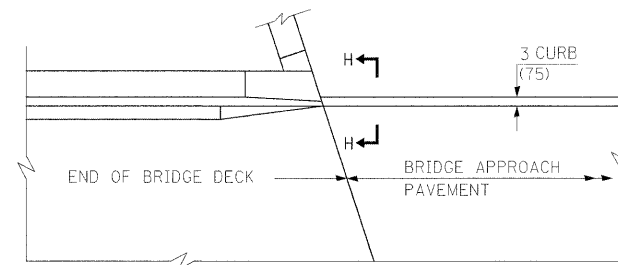
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#FILE#		DRAWN -	REVISED -			304	5A-BR	CALHOUN	60	20	
		CHECKED -	REVISED -			CONTRACT NO. 76886					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.				



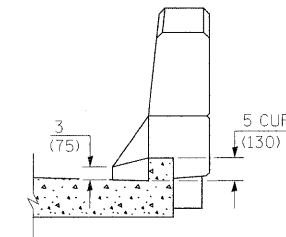
**PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT**



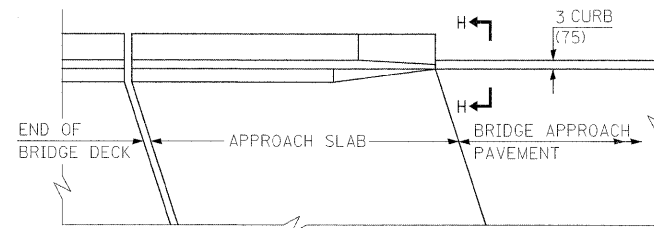
SECTION I - I



**PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT**



SECTION H - H

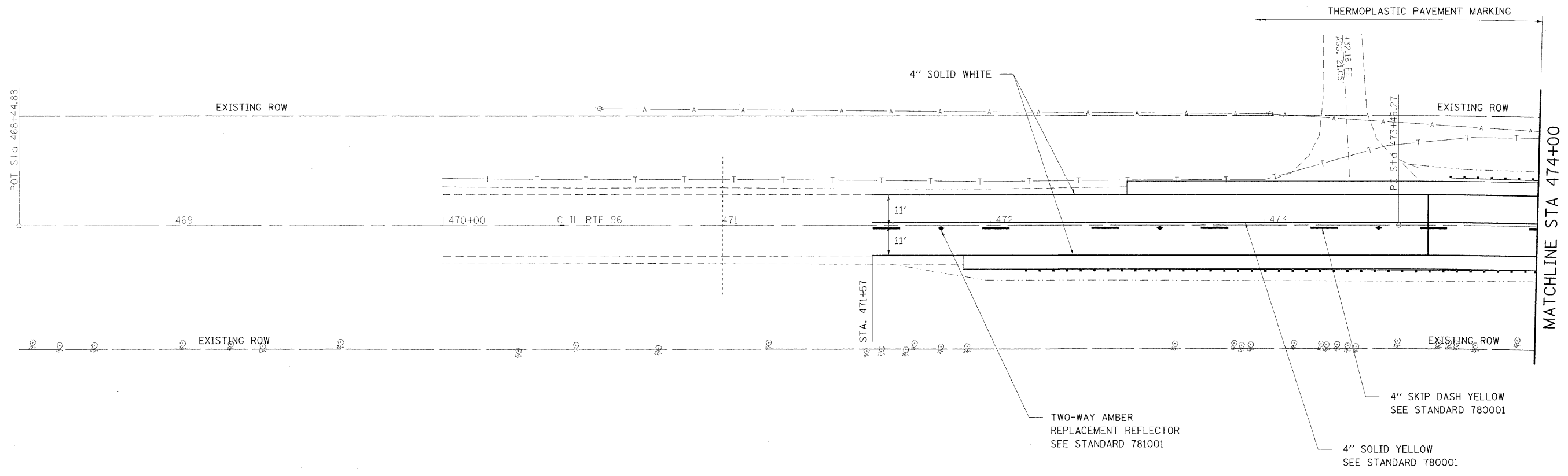


**PARAPET TO CURB TRANSITION
VAULTED ABUTMENT**

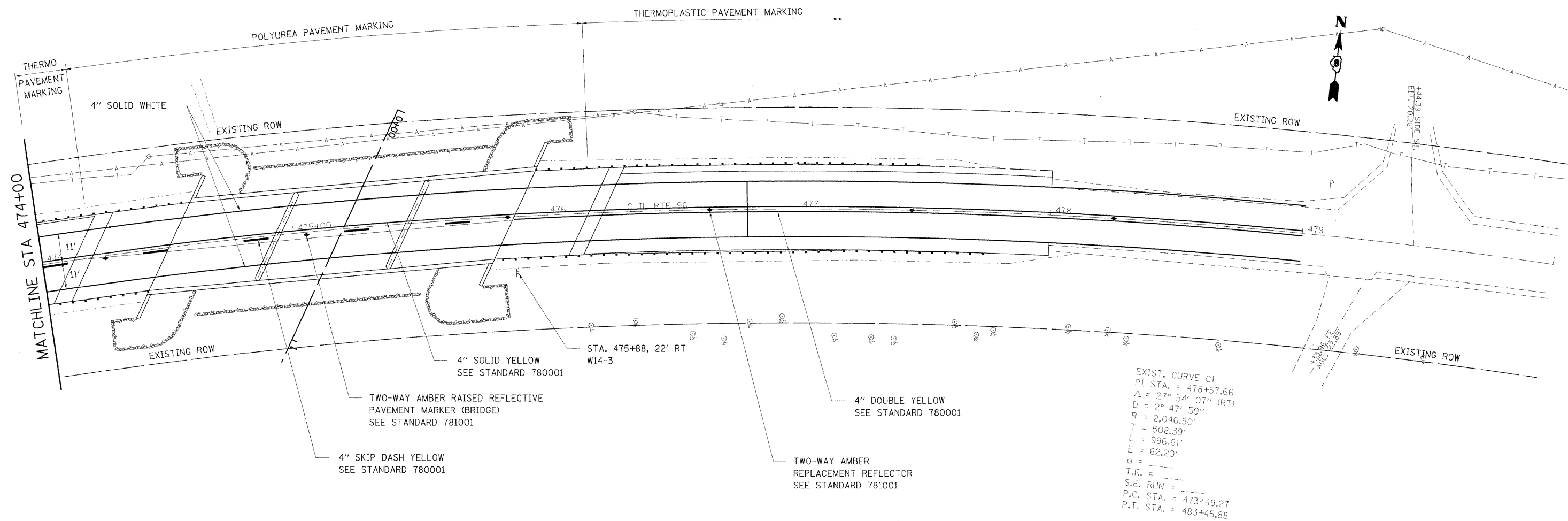
GENERAL NOTES

THICKNESS-"t"=THICKNESS OF PAVEMENT.
SEE STANDARD 421001 FOR REINFORCEMENT
DETAILS NOT SHOWN.
SEE STANDARD 420001 FOR JOINT DETAILS
NOT SHOWN.
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = \$FILEL\$	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



FILE NAME =	USER NAME = owerbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et\pw_work\p1\dot\owenbj\dms63281\p1n02	25a.dgn	DRAWN -	REVISED -					304	5A-BR	CALHOUN	60	22
PLOT SCALE = 20,000.0' / IN.	CHECKED -	REVISED -	SCALE:		SHEET NO. 1 OF 2 SHEETS	STA. 468+00 TO STA. 474+00	CONTRACT NO. 76886		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/10/2009	DATE -	REVISED -										



FILE NAME =	USER NAME = owenbj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\p\p\dot\owenbj\dms63281\p1n0205a.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -					304	5A-BR	CALHOUN	60	23
PLOT DATE = 12/10/2008	DATE -	CHECKED -	REVISED -		SCALE: SHEET NO. 2 OF 2 SHEETS STA. 474+00 TO STA. 480+00			CONTRACT NO. 76886				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

B.M. #402: Chiseled square on top of northeast wingwall of S.N. 007-0013, Sta. 475+93, 17' Lt., Elev. 512.99.

EXISTING STRUCTURE: S.N. 007-0013, originally constructed in 1948 as FAS Route 753 Sec. 5A at Station 475+15.50, using 24" Steel I-beams with 6 1/2" concrete deck, 3 spans, 137'-4 1/2" back-back abutments, 31'-5" out-out width, open pile bent abutments on concrete piles, pile bent piers on concrete piles. In 1990, bearings, bridge rail and floor drains were replaced.

Existing structure shall be removed and replaced using staged construction to maintain one lane of traffic.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION 475+19.62
BUILT _____ BY
STATE OF ILLINOIS
F.A.P. RTE. 304 SEC. 5A-BR
LOADING HL-93
STR. NO. 007-0028

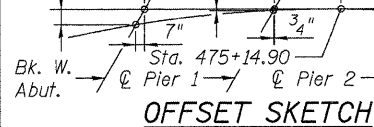
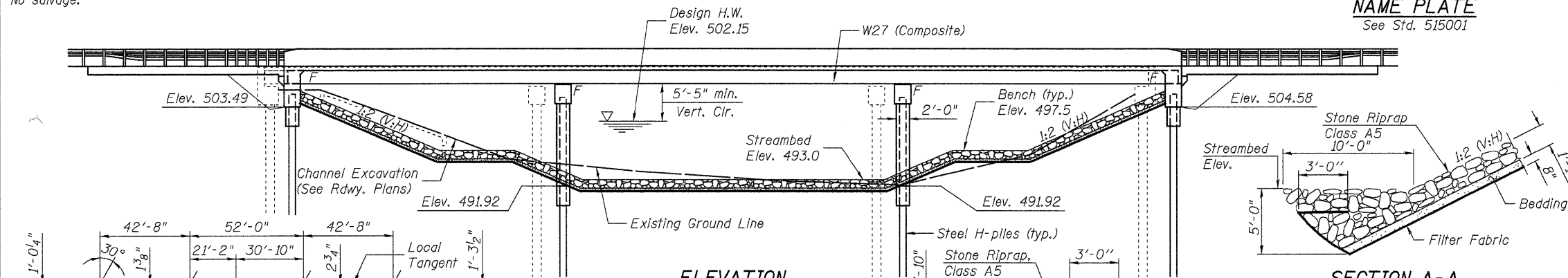
NAME PLATE
See Std. 515001

GENERAL NOTES

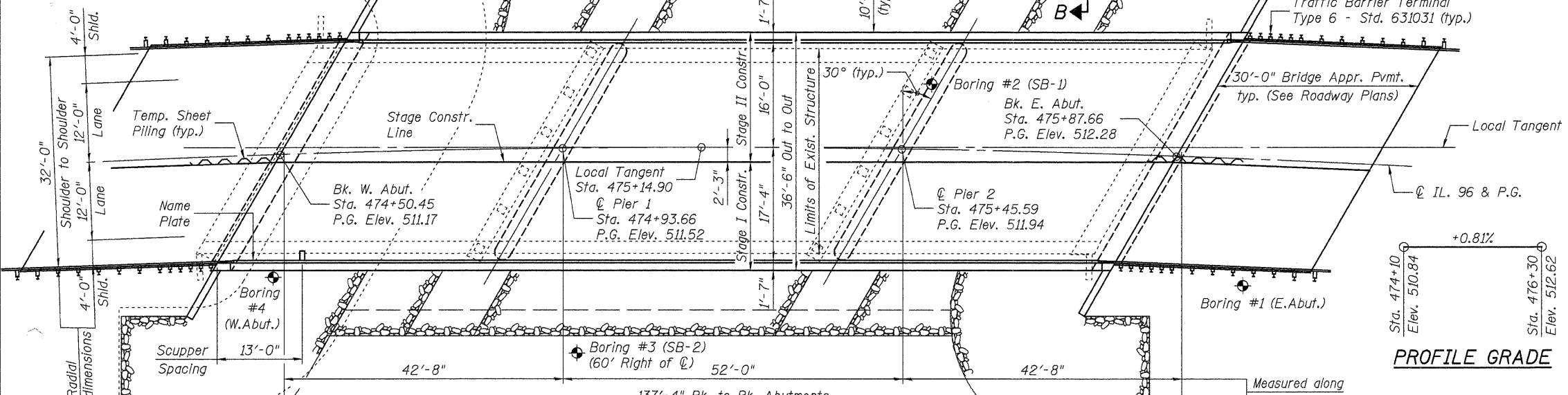
Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 7/8 in. ϕ , holes 1 1/8 in. ϕ , unless otherwise noted.
All structural steel shall be AASHTO M 270 Grade 50W.
Calculated weight of Structural Steel = 77630 lbs.
No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated.
Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
Bearing seat surfaces shall be constructed or adjusted to their 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.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd	--	148	148
Stone Riprap, Class A5	Sq Yd	--	1056	1056
Filter Fabric	Sq Yd	--	1056	1056
Removal Of Existing Structures	Each	1	--	1
Structure Excavation	Cu Yd	--	231	231
Concrete Structures	Cu Yd	--	149.0	149.0
Concrete Superstructure	Cu Yd	177.5	--	177.5
Bridge Deck Grooving	Sq Yd	478	--	478
Concrete Encasement	Cu Yd	--	8.4	8.4
Protective Coat	Sq Yd	624	--	624
Furnishing And Erecting Structural Steel	L Sum	1	--	1
Stud Shear Connectors	Each	2304	--	2304
Reinforcement Bars, Epoxy Coated	Pound	42060	13320	55380
Bar Splicers	Each	491	76	567
Furnishing Steel Piles HP 12x53	Foot	--	1200	1200
Driving Piles	Foot	--	1200	1200
Test Pile Steel HP12x53	Each	--	4	4
Pile Shoes	Each	--	24	24
Temporary Sheet Piling	Sq Ft	--	507	507
Name Plates	Each	1	--	1
Anchor Bolts, 1"	Each	--	48	48
Geocomposite Wall Drain	Sq Yd	--	84	84
Pipe Underdrains For Structures 4"	Foot	--	160	160
Mechanical Splice	Each	--	36	36
Drainage Scuppers, DS-11	Each	1	--	1
Underwater Struct. Excav. Protection - Loc. 1	Each	--	1	1
Underwater Struct. Excav. Protection - Loc. 2	Each	--	1	1



Note:
As a check on the alignment, the Local Tangent should be parallel to and 8" north of the existing ϕ Bridge, the proposed ϕ Bridge should be coincident with the existing ϕ Bridge, and the proposed "Back of Abutments" should be parallel to and 4'-0" east of the existing back of abutments, measured along the Local Tangent.



CURVE DATA
 $\Delta = 27^\circ 54' 07''$ (RT)
 $D = 2^\circ 47' 59''$
 $T = 508.39'$
 $L = 996.61'$
 $E = 62.20'$
 $R = 2046.5'$
 $S.E. = 0.0323'/ft$
 $P.C. = Sta. 473+49.27$
 $P.T. = Sta. 483+45.88$
 $P.I. = Sta. 478+57.66$

DESIGN SCOUR ELEVATION TABLE

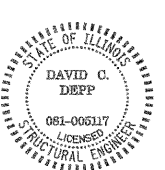
Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	503.5	488.9	488.9	504.6

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: SJS/PTR
CHECKED: DCD CHECKED: DCD

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



Signed: *David Depp*
Date: 11-26-2008
Lic. Expires: 11-30-2010

WATERWAY INFORMATION

Existing Low Grade Elevation: 510.94 @ Sta. 474+50.03
Prop. Low Grade Elevation: 510.94 @ Sta. 474+50.03

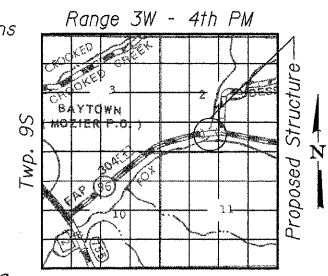
Flood	Freq. Yr.	Q	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.
Design	10	1836	372.19	392.81	500.24	0.14	0.13	500.38	500.37	
Base	50	3086	533.08	551.96	502.15	0.19	0.18	502.34	502.33	
Overtopping	100	3680	600.67	619.34	502.91	0.19	0.18	503.10	503.09	
Max. Calc.	500	5154	752.81	772.61	504.55	0.14	0.14	504.69	504.69	

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

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications
with 2008 Interims

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Accel. at 1.0 sec. (SD1) = 0.16g
Design Spectral Accel. at 0.2 sec. (SDS) = 0.29g
Soil Site Class = D



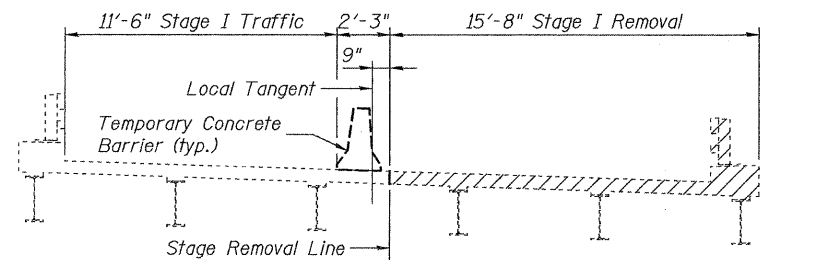
INDEX OF SHEETS

Sheet No.	Description
1	General Plan, General Notes & Bill of Material
2	Stage Construction Details, Temp Sheet Piling
3	Temp Concrete Barrier for Stage Construction
4-6	Top of Slab Elevations
7-9	Superstructure Details
10	Concrete Parapet Slipforming Option
11	Drainage Scupper, DS-11
12	Structural Steel & Framing Plan
13	Bearings
14-15	West and East Abutments
16	Piers 1 and 2
17	Pile Details
18	Bar Splicer Assembly Details
19	Canilever Forming Brackets
20-22	Soil Borings

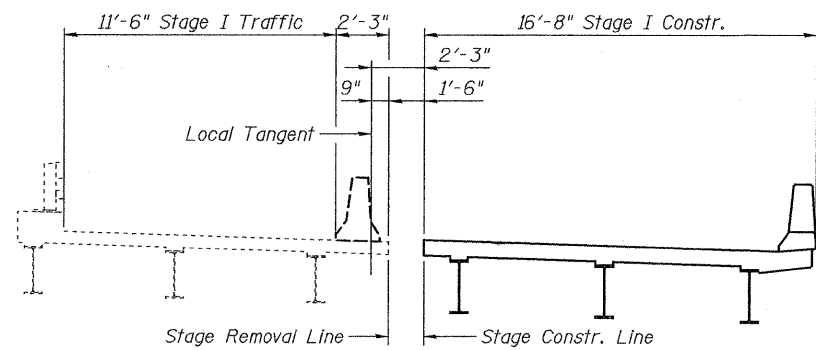
GENERAL PLAN
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 OF 22	304	5A-BR	CALHOUN	60	24
		STA. 475+19.62	CONTRACT NO. 76886		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

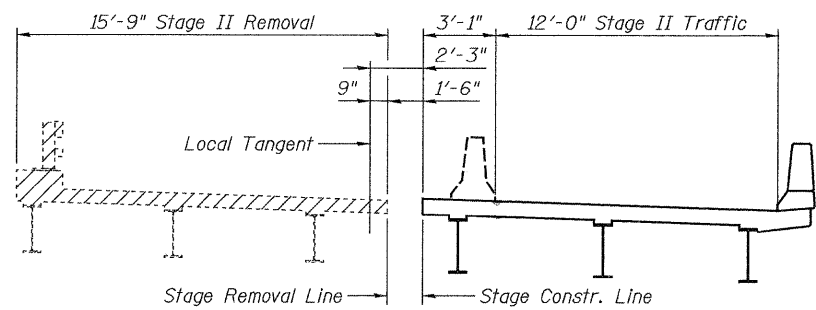
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



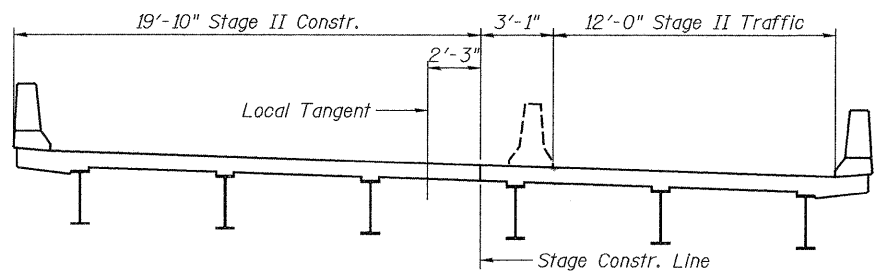
STAGE I REMOVAL
(Looking East)



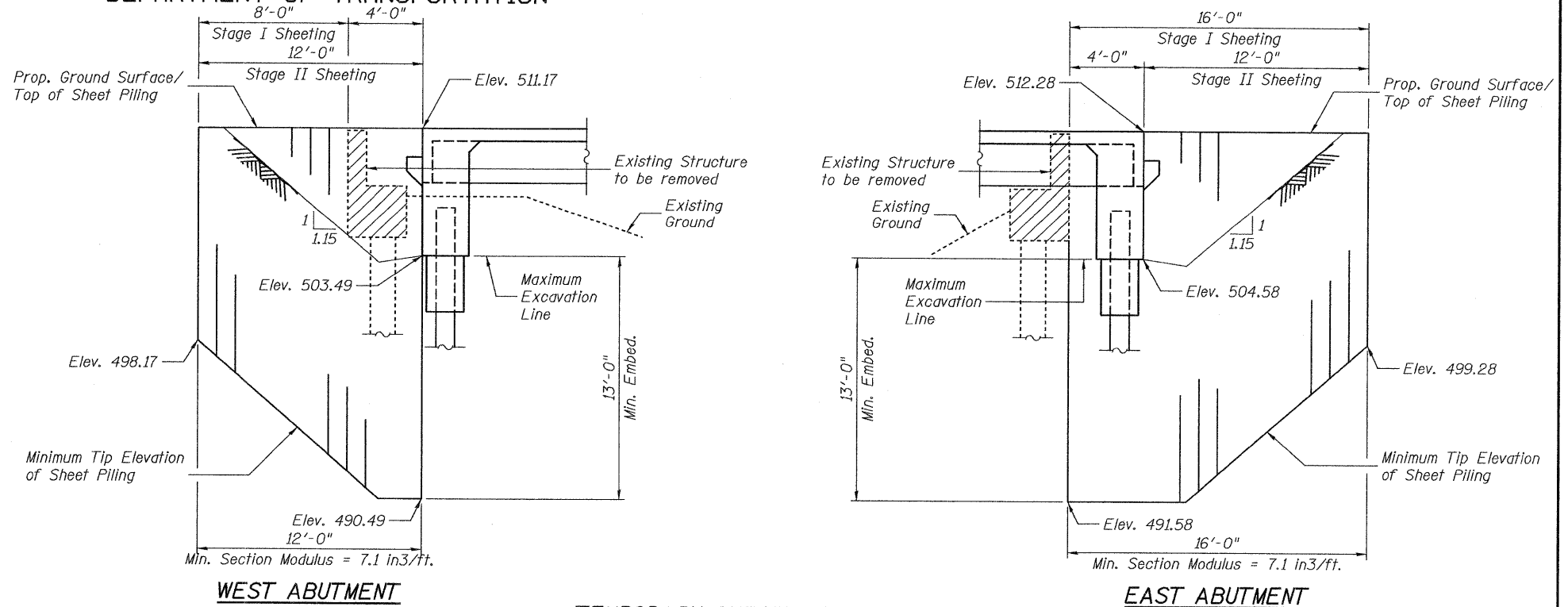
STAGE I CONSTRUCTION
(Looking East)



STAGE II REMOVAL
(Looking East)



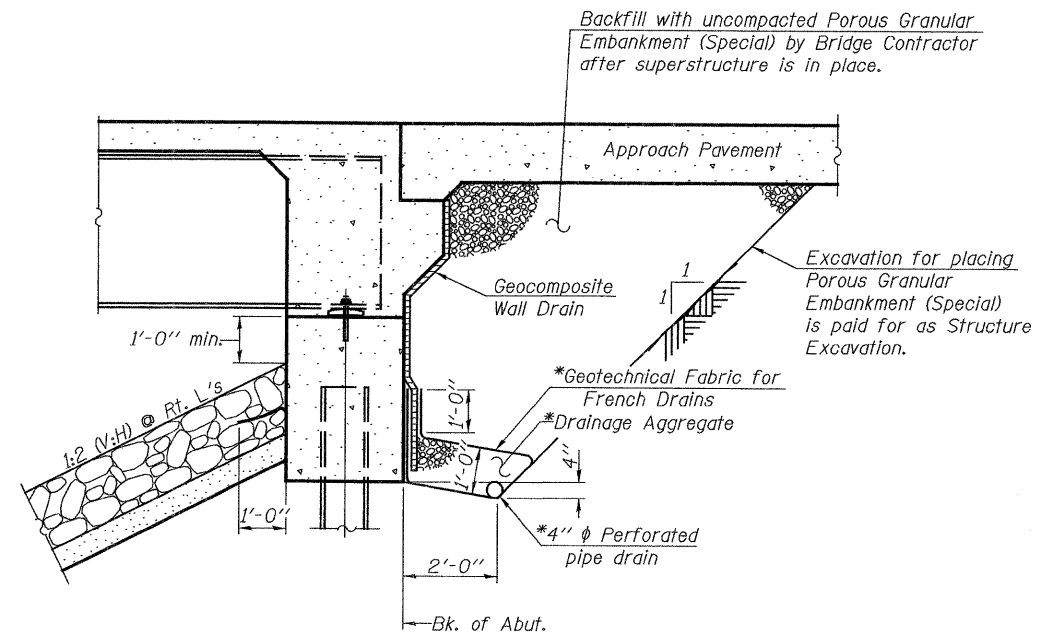
STAGE II CONSTRUCTION
(Looking East)



TEMPORARY SHEET PILING DETAILS

(Slopes and horizontal dimensions are measured parallel to \perp roadway)

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. \odot Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

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).

NOTES:

Hatched area indicates Removal of Existing Structures.
Removal of existing railing is included with Removal of Existing Structures.
For quantity and location of Temporary Concrete Barrier, see Roadway Plans.

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

STAGE CONSTRUCTION DETAILS

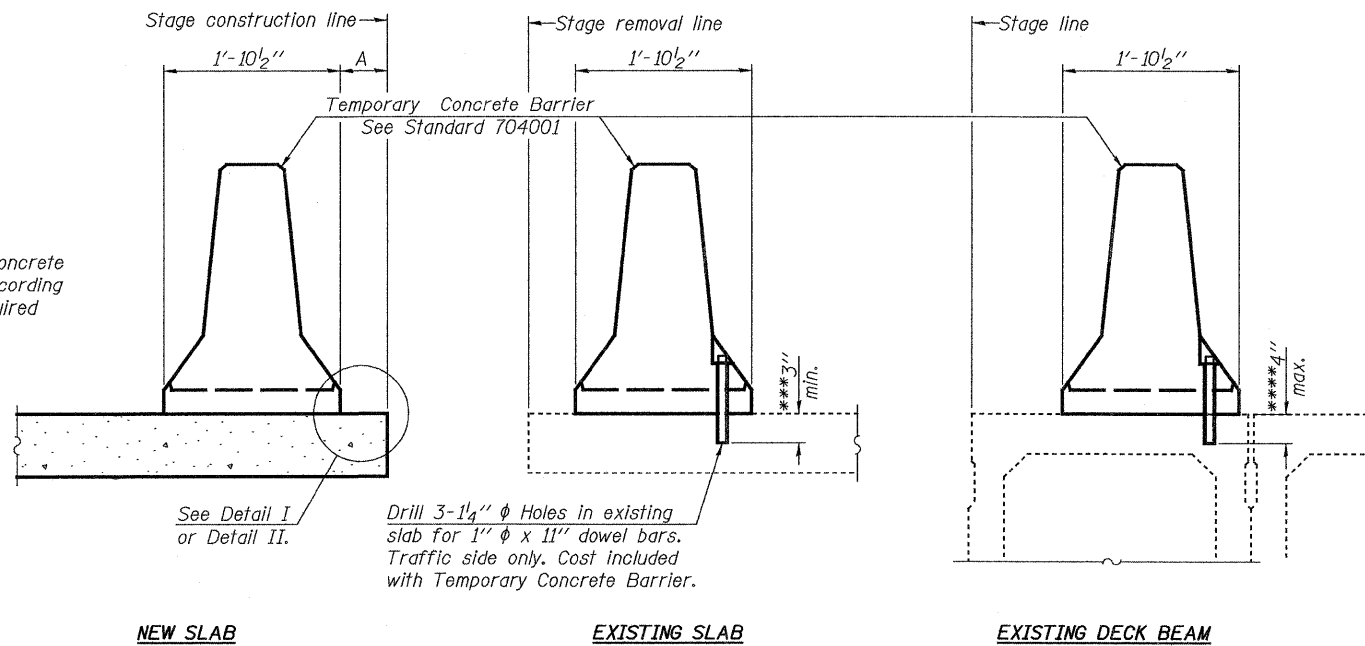
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 2 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 25
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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".



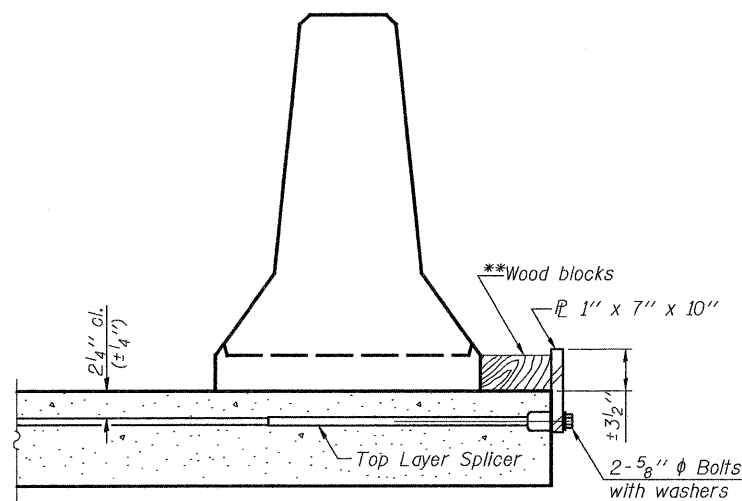
Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NOTES

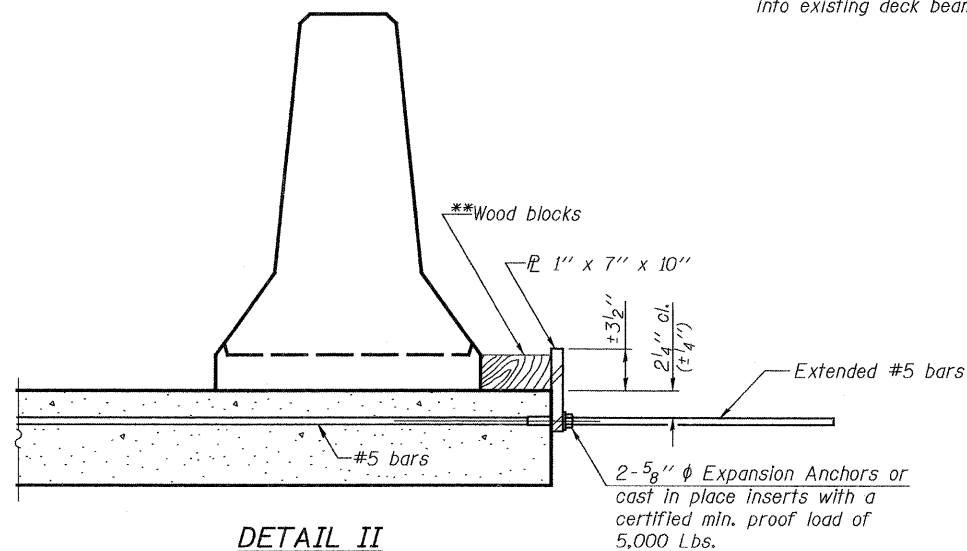
- Detail I - With Bar Splicer or Couplers:**
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:**
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete 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 10" 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.

SECTIONS THRU SLAB OR DECK BEAM

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

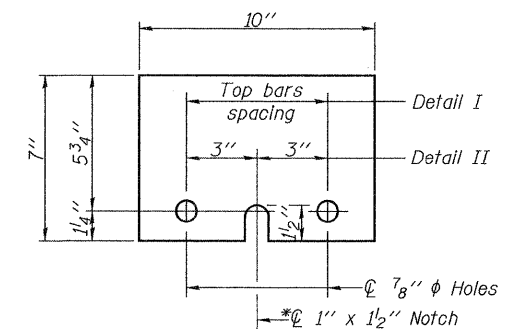


DETAIL I



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.



STEEL RETAINER \bar{L} 1" x 7" x 10"

*Required only with Detail II

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028**

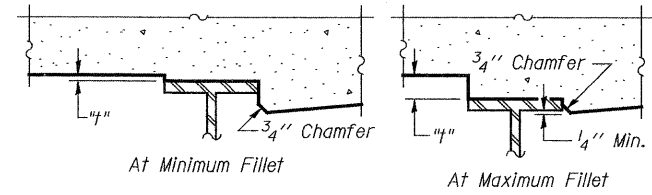
JD Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: JDO	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

R-27

5-16-08

SHEET 3 OF 22	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	304	5A-BR	CALHOUN	60	26
	STA. 475+19.62		CONTRACT NO. 76886		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

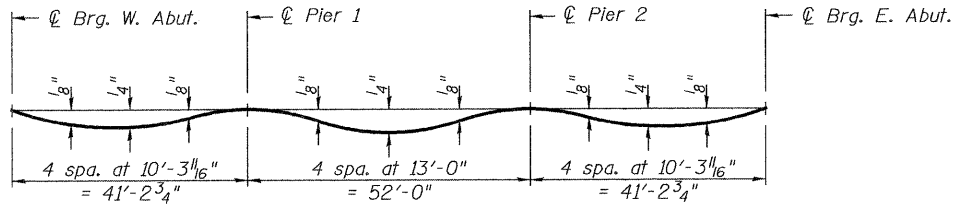
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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 below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

NOTE: Expected fillet height "t" varies from 1/2" (at Abuts.) to 1 1/2" (at midspan 2).



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.

BEAM 1

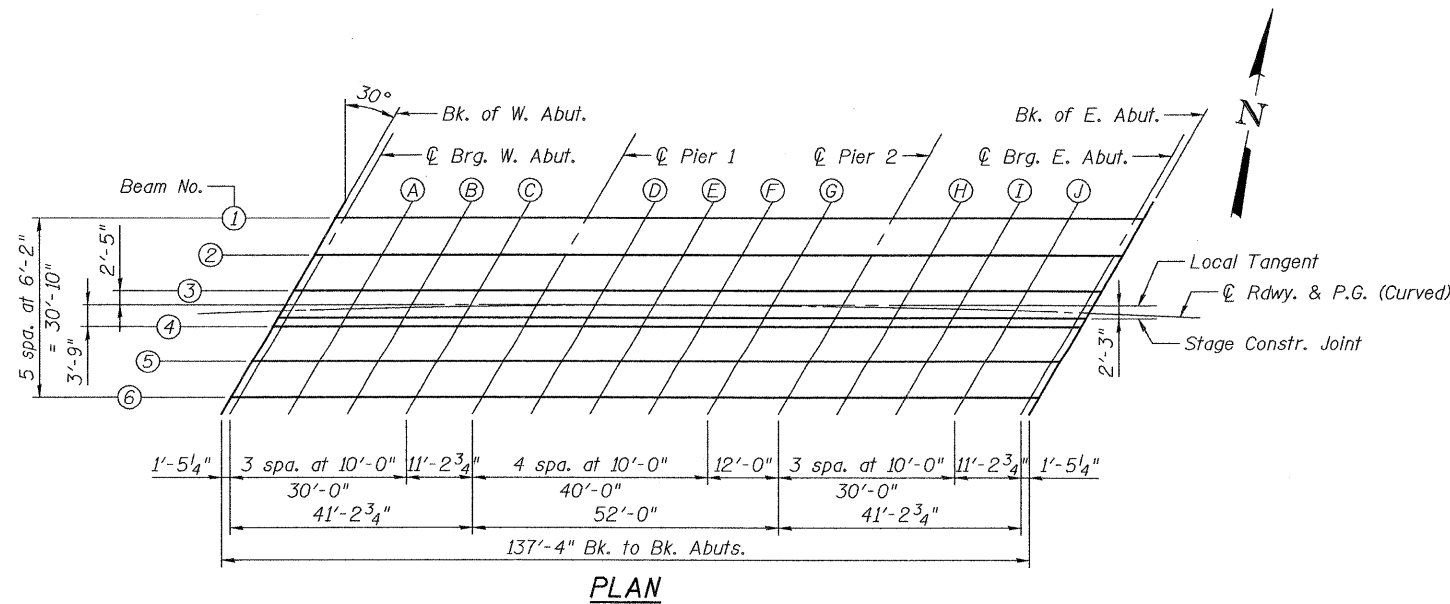
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+59.97	-15.50	511.74	511.74
☉ Brg. W. Abut.	474+61.40	-15.46	511.76	511.76
A	474+71.32	-15.22	511.83	511.84
B	474+81.25	-15.03	511.90	511.92
C	474+91.17	-14.89	511.98	511.99
☉ Pier 1	475+02.32	-14.79	512.06	512.06
D	475+12.25	-14.75	512.14	512.15
E	475+22.18	-14.76	512.22	512.25
F	475+32.11	-14.82	512.31	512.33
G	475+42.03	-14.93	512.39	512.40
☉ Pier 2	475+53.95	-15.12	512.49	512.49
H	475+63.87	-15.34	512.58	512.59
I	475+73.79	-15.60	512.67	512.69
J	475+83.71	-15.91	512.76	512.77
☉ Brg. E. Abut.	475+94.84	-16.32	512.86	512.86
Bk. E. Abut.	475+96.28	-16.38	512.88	512.88

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+56.27	-9.43	511.52	511.52
☉ Brg. W. Abut.	474+57.70	-9.39	511.53	511.53
A	474+67.65	-9.13	511.60	511.62
B	474+77.60	-8.93	511.68	511.69
C	474+87.56	-8.77	511.75	511.76
☉ Pier 1	474+98.74	-8.65	511.84	511.84
D	475+08.70	-8.59	511.92	511.93
E	475+18.66	-8.59	512.00	512.02
F	475+28.61	-8.63	512.08	512.10
G	475+38.57	-8.72	512.16	512.18
☉ Pier 2	475+50.52	-8.89	512.26	512.26
H	475+60.47	-9.09	512.35	512.36
I	475+70.42	-9.34	512.44	512.46
J	475+80.37	-9.63	512.53	512.55
☉ Brg. E. Abut.	475+91.54	-10.02	512.63	512.63
Bk. E. Abut.	475+92.98	-10.08	512.65	512.65

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+52.54	-3.37	511.29	511.29
☉ Brg. W. Abut.	474+53.97	-3.33	511.30	511.30
A	474+63.95	-3.05	511.38	511.39
B	474+73.93	-2.83	511.45	511.47
C	474+83.92	-2.65	511.52	511.53
☉ Pier 1	474+95.13	-2.51	511.61	511.61
D	475+05.12	-2.44	511.69	511.70
E	475+15.11	-2.42	511.77	511.79
F	475+25.10	-2.44	511.85	511.87
G	475+35.09	-2.52	511.93	511.95
☉ Pier 2	475+47.07	-2.67	512.04	512.04
H	475+57.05	-2.85	512.12	512.13
I	475+67.04	-3.08	512.21	512.23
J	475+77.02	-3.36	512.30	512.32
☉ Brg. E. Abut.	475+88.22	-3.73	512.40	512.40
Bk. E. Abut.	475+89.67	-3.78	512.42	512.42



PLAN

**TOP OF SLAB ELEVATIONS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028**

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

E-S 5-16-08

SHEET 4 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 27
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

⊕ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+50.45	0.00	511.17	511.17
⊕ Brg. W. Abut.	474+51.91	0.00	511.18	511.18
A	474+62.09	0.00	511.26	511.28
B	474+72.22	0.00	511.34	511.36
C	474+82.33	0.00	511.43	511.43
⊕ Pier 1	474+93.65	0.00	511.52	511.52
D	475+03.69	0.00	511.60	511.61
E	475+13.71	0.00	511.68	511.70
F	475+23.70	0.00	511.76	511.78
G	475+33.67	0.00	511.84	511.85
⊕ Pier 2	475+45.58	0.00	511.94	511.94
H	475+55.49	0.00	512.02	512.02
I	475+65.36	0.00	512.10	512.11
J	475+75.21	0.00	512.18	512.19
⊕ Brg. E. Abut.	475+86.24	0.00	512.27	512.27
Bk. E. Abut.	475+87.66	0.00	512.28	512.28

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+49.70	1.21	511.12	511.12
⊕ Brg. W. Abut.	474+51.14	1.25	511.13	511.13
A	474+61.14	1.54	511.20	511.22
B	474+71.15	1.78	511.28	511.29
C	474+81.15	1.97	511.35	511.36
⊕ Pier 1	474+92.39	2.13	511.44	511.44
D	475+02.40	2.21	511.52	511.53
E	475+12.41	2.25	511.60	511.62
F	475+22.42	2.24	511.68	511.70
G	475+32.43	2.18	511.76	511.77
⊕ Pier 2	475+44.45	2.04	511.86	511.86
H	475+54.45	1.87	511.95	511.96
I	475+64.46	1.65	512.04	512.05
J	475+74.46	1.39	512.13	512.14
⊕ Brg. E. Abut.	475+85.69	1.03	512.23	512.23
Bk. E. Abut.	475+87.14	0.98	512.24	512.24

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+48.78	2.68	511.07	511.07
⊕ Brg. W. Abut.	474+50.22	2.73	511.08	511.08
A	474+60.23	3.02	511.15	511.16
B	474+70.25	3.26	511.22	511.24
C	474+80.26	3.46	511.30	511.31
⊕ Pier 1	474+91.51	3.62	511.38	511.38
D	475+01.53	3.71	511.46	511.47
E	475+11.54	3.75	511.54	511.56
F	475+21.56	3.74	511.62	511.65
G	475+31.58	3.68	511.70	511.72
⊕ Pier 2	475+43.60	3.55	511.81	511.81
H	475+53.62	3.39	511.89	511.90
I	475+63.63	3.17	511.98	512.00
J	475+73.64	2.91	512.07	512.09
⊕ Brg. E. Abut.	475+84.88	2.56	512.17	512.17
Bk. E. Abut.	475+86.33	2.51	512.19	512.19

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+45.01	8.73	510.84	510.84
⊕ Brg. W. Abut.	474+46.45	8.77	510.85	510.85
A	474+56.49	9.08	510.92	510.94
B	474+66.53	9.35	511.00	511.01
C	474+76.58	9.56	511.07	511.08
⊕ Pier 1	474+87.86	9.74	511.16	511.16
D	474+97.91	9.85	511.23	511.24
E	475+07.96	9.90	511.31	511.34
F	475+18.00	9.91	511.39	511.42
G	475+28.05	9.88	511.48	511.49
⊕ Pier 2	475+40.11	9.76	511.58	511.58
H	475+50.16	9.62	511.66	511.67
I	475+60.20	9.42	511.75	511.77
J	475+70.24	9.17	511.84	511.86
⊕ Brg. E. Abut.	475+81.52	8.84	511.94	511.94
Bk. E. Abut.	475+82.97	8.79	511.96	511.96

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	474+41.21	14.76	510.62	510.62
⊕ Brg. W. Abut.	474+42.66	14.81	510.63	510.63
A	474+52.73	15.14	510.70	510.71
B	474+62.80	15.42	510.77	510.79
C	474+72.87	15.65	510.84	510.85
⊕ Pier 1	474+84.19	15.85	510.93	510.93
D	474+94.27	15.98	511.01	511.02
E	475+04.35	16.06	511.08	511.11
F	475+14.42	16.08	511.17	511.19
G	475+24.50	16.06	511.25	511.26
⊕ Pier 2	475+36.60	15.97	511.35	511.35
H	475+46.68	15.84	511.43	511.44
I	475+56.75	15.66	511.52	511.54
J	475+66.83	15.43	511.61	511.63
⊕ Brg. E. Abut.	475+78.13	15.12	511.71	511.71
Bk. E. Abut.	475+79.59	15.07	511.73	511.73

 Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

TOP OF SLAB ELEVATIONS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 5 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 28
	STA. 475+19.62		CONTRACT NO. 76886		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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DATE: 11/26/2008 10:40:30
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEFT CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+31.22	-16.98	511.56
A1	474+41.14	-16.99	511.64
B1	474+51.06	-17.04	511.72
Bk. W. Abut.	474+60.97	-17.14	511.81
Bk. E. Abut.	475+97.17	-18.09	512.94
A2	476+07.08	-18.08	513.02
B2	476+16.99	-18.13	513.10
End E. Appr. Pvmnt.	476+26.91	-18.22	513.18

LEFT EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+28.06	-11.96	511.37
A1	474+38.00	-11.95	511.45
B1	474+47.94	-11.98	511.53
Bk. W. Abut.	474+57.88	-12.07	511.62
Bk. E. Abut.	475+93.97	-11.96	512.71
A2	476+03.91	-11.94	512.79
B2	476+13.86	-11.98	512.88
End E. Appr. Pvmnt.	476+23.80	-12.05	512.96

RDWY. & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+20.45	0.00	510.92
A1	474+30.48	0.00	511.01
B1	474+40.48	0.00	511.09
Bk. W. Abut.	474+50.45	0.00	511.17
Bk. E. Abut.	475+87.66	0.00	512.28
A2	475+97.69	0.00	512.36
B2	476+07.69	0.00	512.44
End E. Appr. Pvmnt.	476+17.66	0.00	512.52

STAGE CONSTRUCTION JOINT

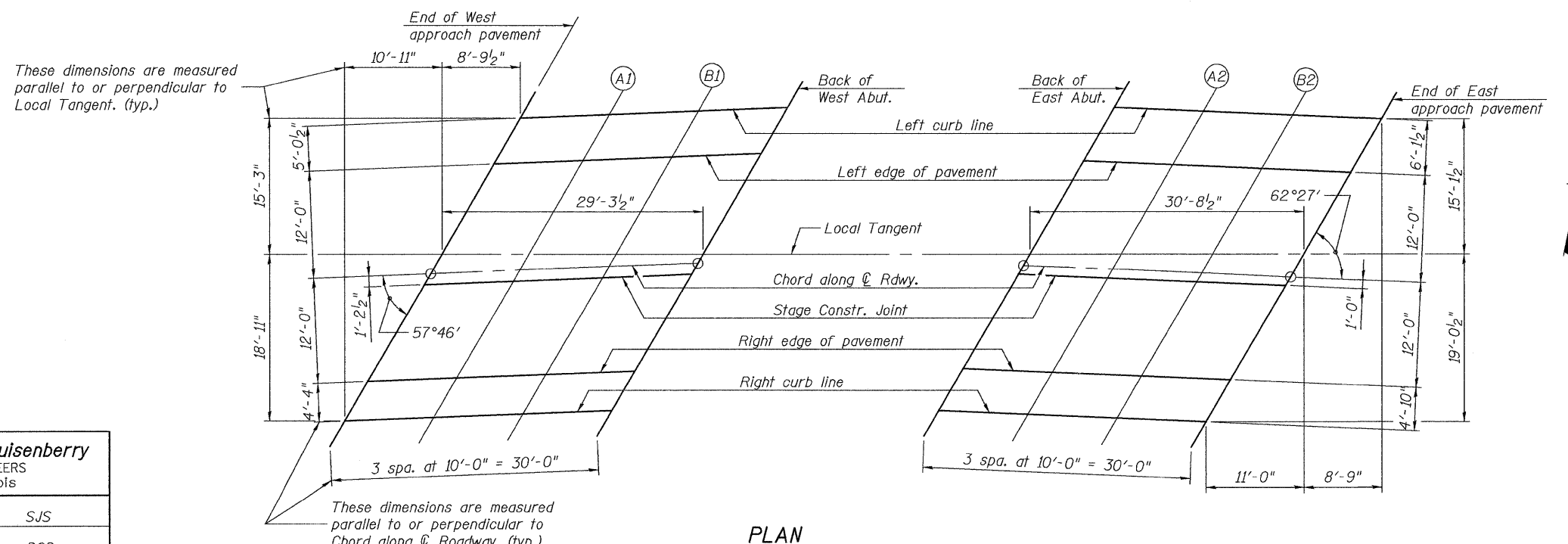
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+19.68	1.20	510.88
A1	474+29.69	1.25	510.96
B1	474+39.69	1.25	511.04
Bk. W. Abut.	474+49.70	1.21	511.12
Bk. E. Abut.	475+87.14	0.98	512.24
A2	475+97.15	1.03	512.32
B2	476+07.15	1.03	512.40
End E. Appr. Pvmnt.	476+17.16	0.99	512.48

RIGHT EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+12.75	11.93	510.48
A1	474+22.81	12.02	510.56
B1	474+32.87	12.05	510.64
Bk. W. Abut.	474+42.93	12.04	510.72
Bk. E. Abut.	475+81.28	11.94	511.84
A2	475+91.34	12.02	511.92
B2	476+01.40	12.06	512.00
End E. Appr. Pvmnt.	476+11.46	12.04	512.08

RIGHT CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmnt.	474+09.94	16.24	510.31
A1	474+20.02	16.34	510.39
B1	474+30.10	16.39	510.47
Bk. W. Abut.	474+40.18	16.40	510.55
Bk. E. Abut.	475+78.68	16.77	511.66
A2	475+88.76	16.86	511.74
B2	475+98.84	16.90	511.82
End E. Appr. Pvmnt.	476+08.93	16.90	511.90



These dimensions are measured parallel to or perpendicular to Local Tangent. (typ.)

These dimensions are measured parallel to or perpendicular to Chord along Q Roadway. (typ.)

PLAN

TOP OF APPROACH
SLAB ELEVATIONS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

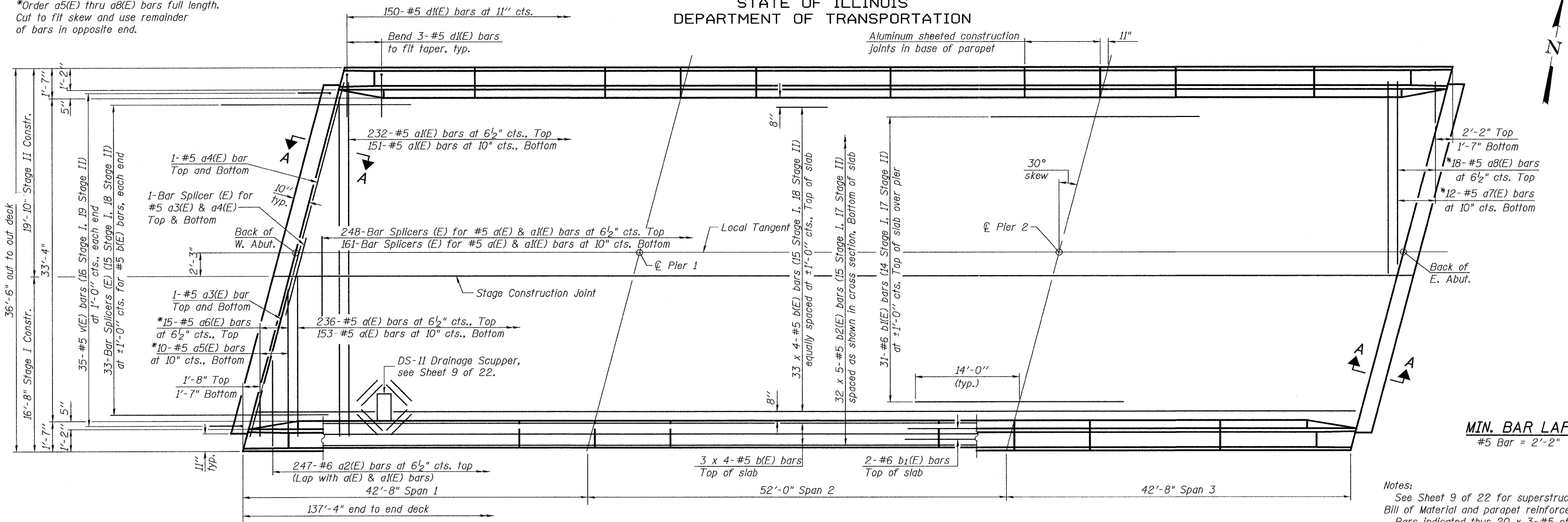
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	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

E-AS 5-16-08

FILE: J:\JDO\10164 IL-96\W99 IL 96 Fox Creek-FINAL\FoxCreek\06aspldblev.dgn
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DATE: 11/26/2008 10:40:33

*Order a5(E) thru a8(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

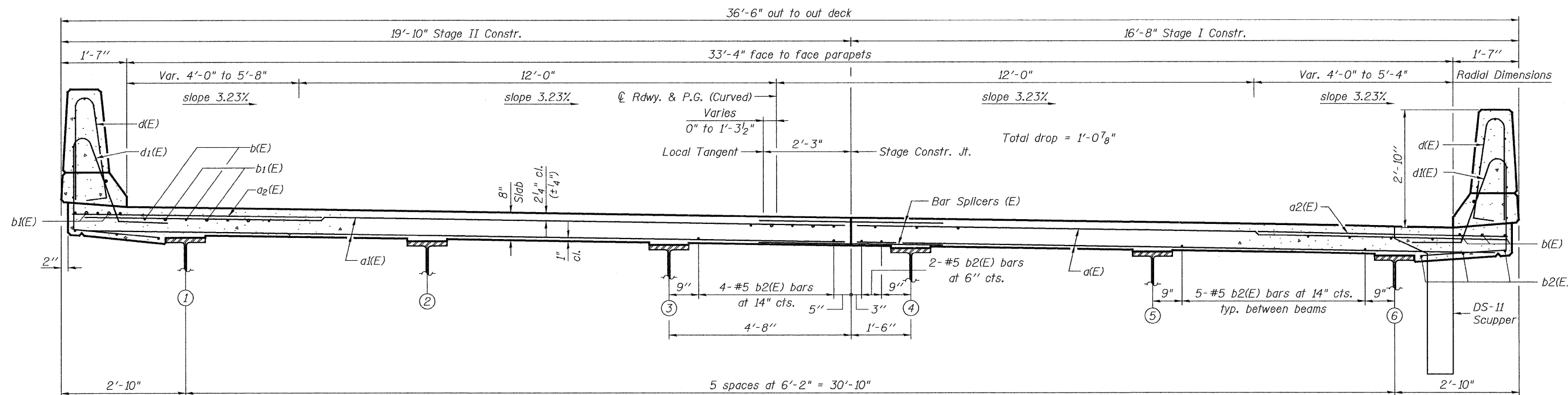
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MIN. BAR LAP
#5 Bar = 2'-2"

Notes:
See Sheet 9 of 22 for superstructure details,
Bill of Material and parapet reinforcement.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.

PLAN



NEAR PIER

CROSS SECTION
(Looking East)

NEAR MIDSPAN

SUPERSTRUCTURE
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

SI-2-L 5-16-08

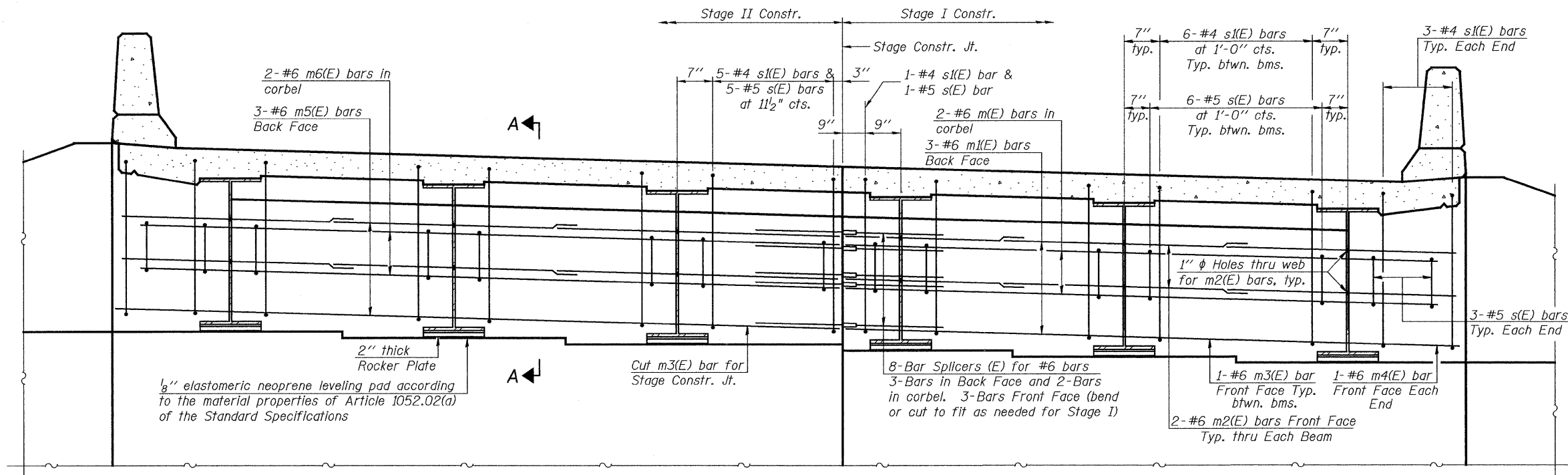
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	STA. 475+19.62		CONTRACT NO. 76886	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

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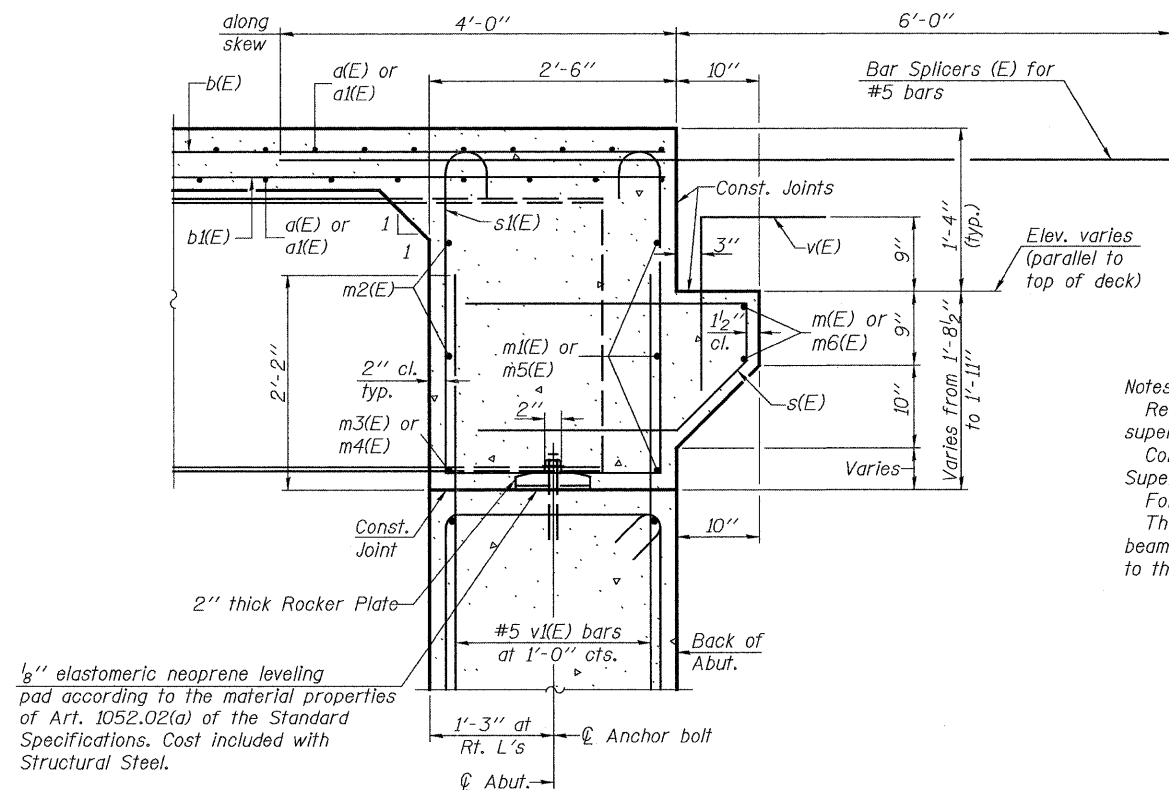
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DIAPHRAGM ELEVATION AT ABUTMENT



Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 22.
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 22.
For details of bars s(E) & s1(E) see sheet 9 of 22.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
#6 bar = 2'-7"

SECTION A-A
Dimensions at right angles to abutment, except as shown.

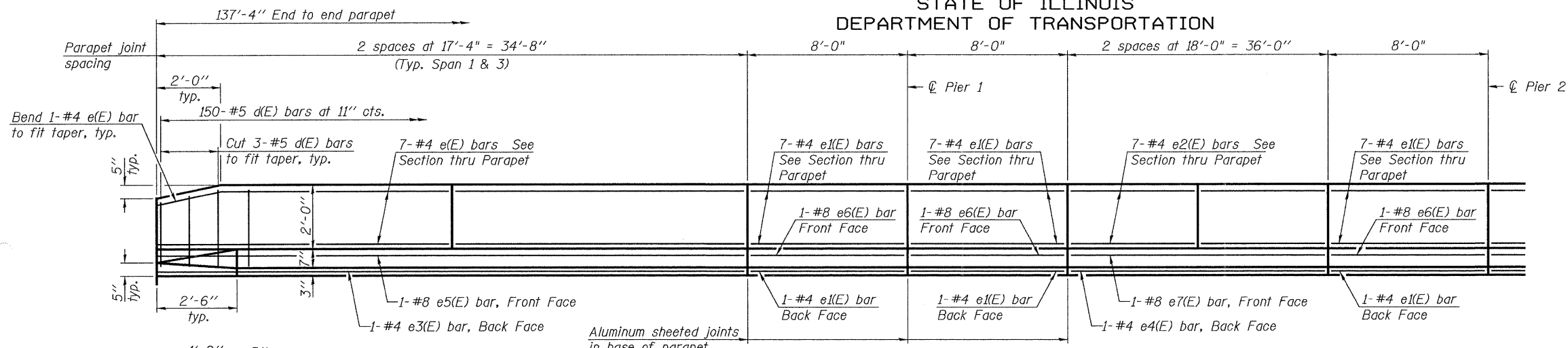
**INTEGRAL ABUTMENT
DIAPHRAGM DETAILS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028**

DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

SI-DS1 5-16-08

SHEET 8 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 31
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

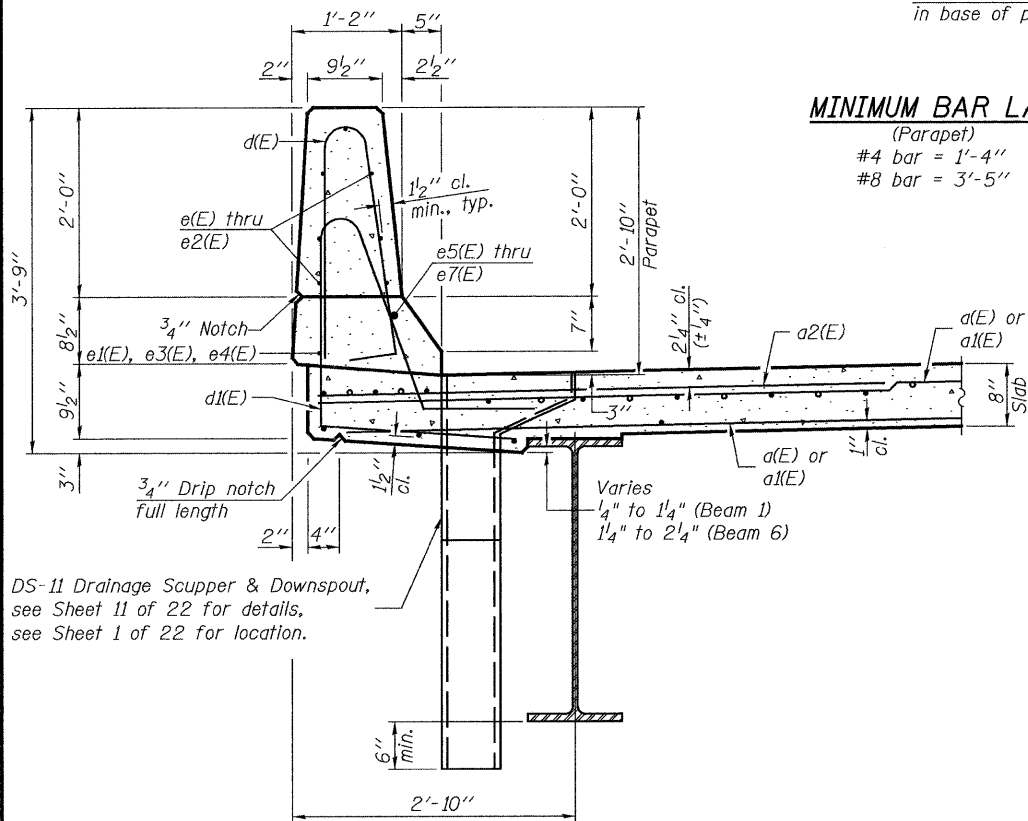
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



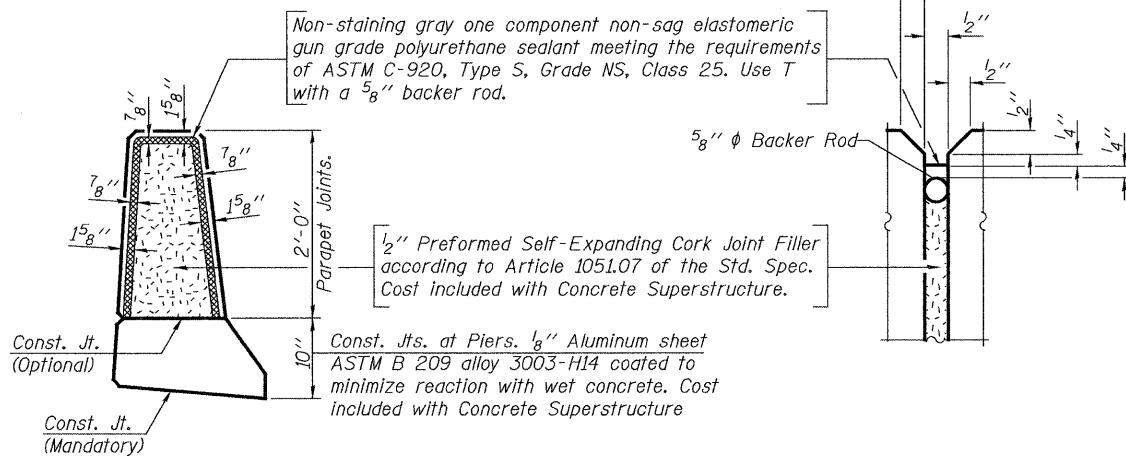
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

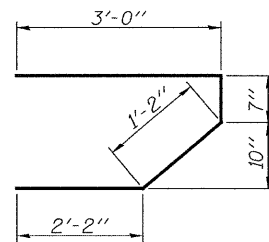
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



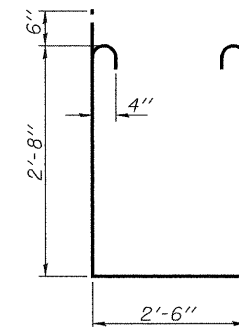
SECTION THRU PARAPET



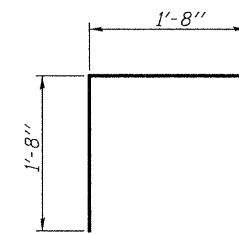
PARAPET JOINT DETAILS



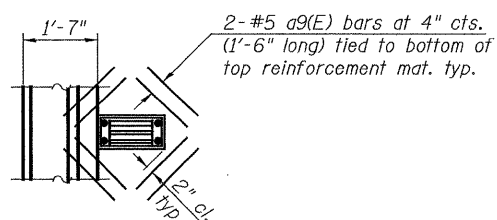
BAR s(E)



BAR s1(E)

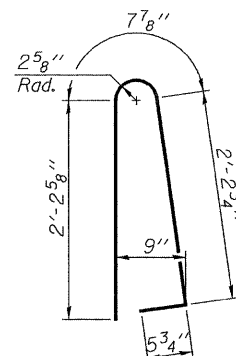


BAR v(E)

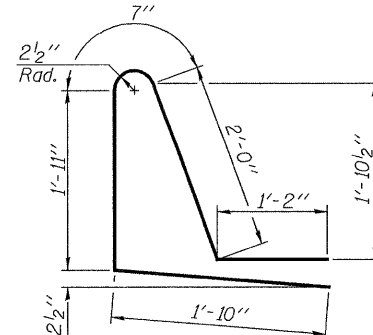


PLAN AT SCUPPER

Note:
Cut longitudinal reinforcement to clear drainage scuppers.



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	389	#5	16'-2"	—
a1(E)	383	#5	19'-4"	—
a2(E)	494	#6	6'-0"	—
a3(E)	4	#5	18'-8"	—
a4(E)	4	#5	22'-4"	—
a5(E)	10	#5	18'-0"	—
a6(E)	15	#5	17'-9"	—
a7(E)	12	#5	21'-3"	—
a8(E)	18	#5	22'-0"	—
a9(E)	8	#5	1'-6"	—
b(E)	156	#5	35'-11"	—
b1(E)	70	#6	28'-0"	—
b2(E)	160	#5	29'-2"	—
d(E)	300	#5	5'-7"	⌋
d1(E)	300	#5	7'-6"	⌋
e(E)	56	#4	17'-0"	—
e1(E)	64	#4	7'-8"	—
e2(E)	28	#4	17'-8"	—
e3(E)	4	#4	34'-4"	—
e4(E)	2	#4	35'-8"	—
e5(E)	4	#8	34'-4"	—
e6(E)	8	#8	7'-8"	—
e7(E)	2	#8	35'-8"	—
m(E)	4	#6	17'-10"	—
m1(E)	6	#6	18'-11"	—
m2(E)	12	#6	9'-9"	—
m3(E)	10	#6	6'-9"	—
m4(E)	4	#6	2'-10"	—
m5(E)	6	#6	22'-6"	—
m6(E)	4	#6	21'-6"	—
s(E)	72	#5	6'-11"	⌋
s1(E)	72	#4	8'-10"	⌋
v(E)	70	#5	3'-4"	⌋
Reinforcement Bars, Epoxy Coated	Pound		42060	
Concrete Superstructure	Cu. Yds.		177.5	

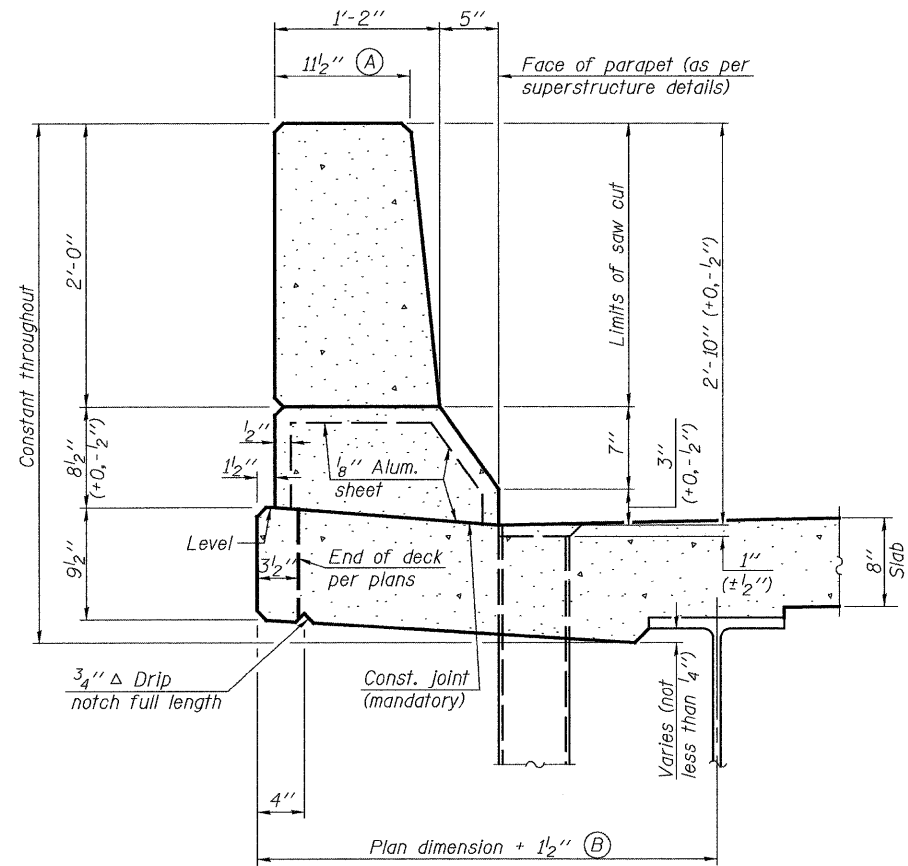
SUPERSTRUCTURE DETAILS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

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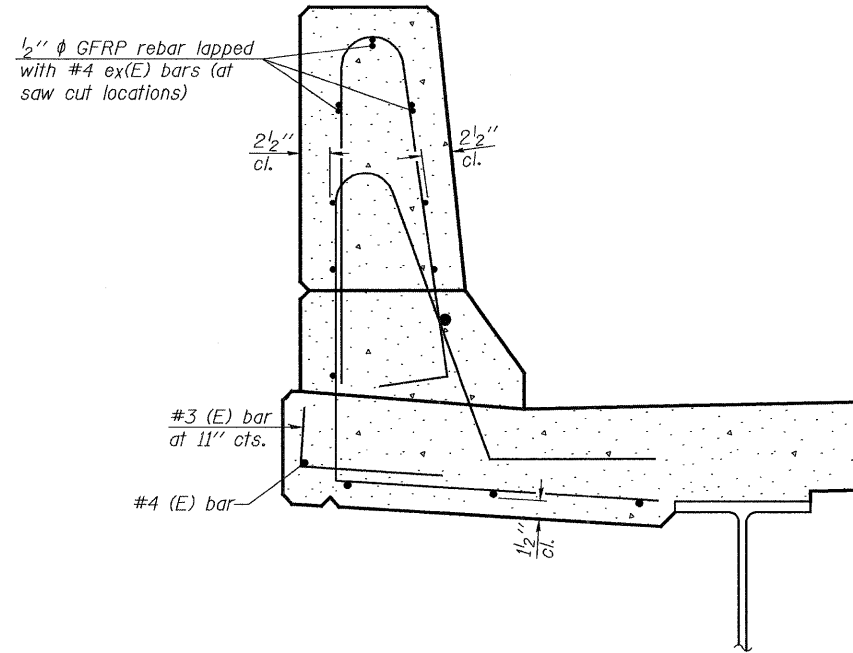
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S-I-D 5-16-08			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



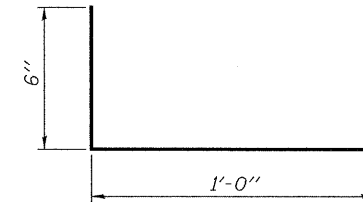
SECTION
(Showing dimensions)



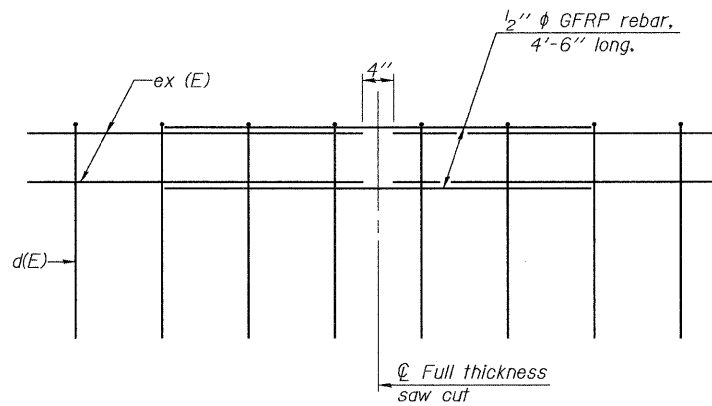
SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. of parapet.
Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

CONCRETE PARAPET SLIPFORMING OPTION

ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 10 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 33
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

SFP-34

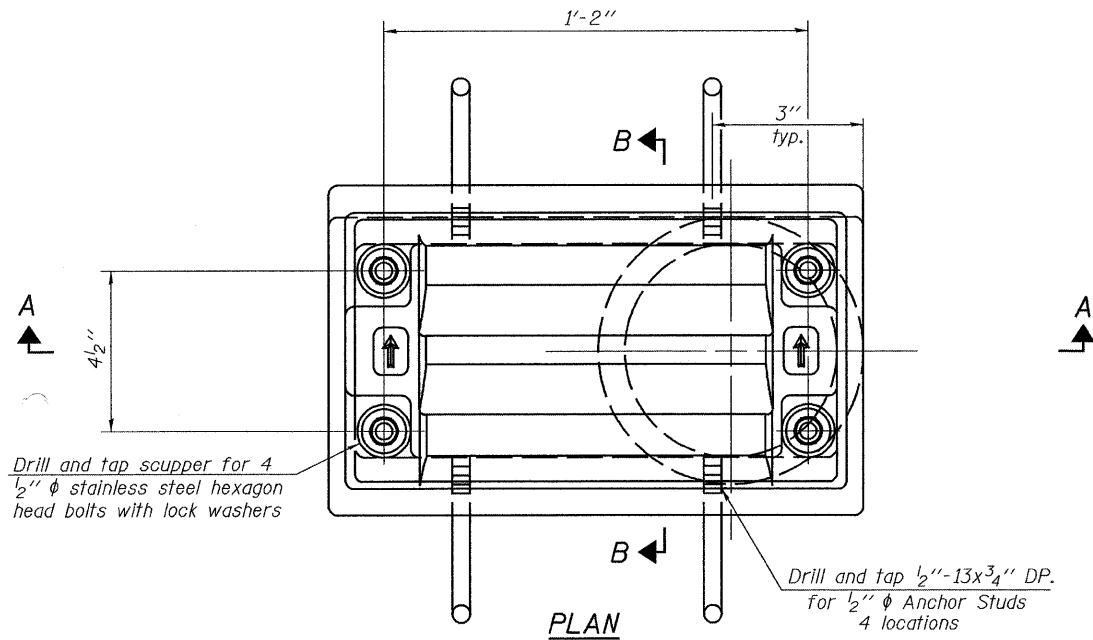
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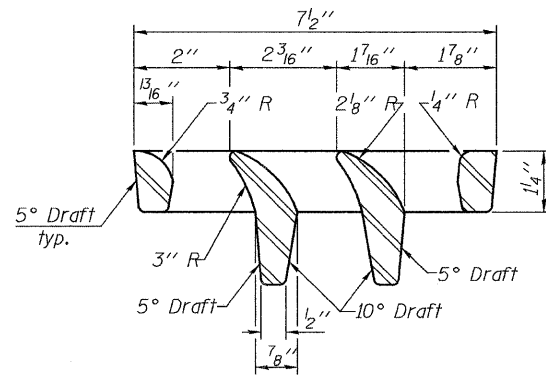
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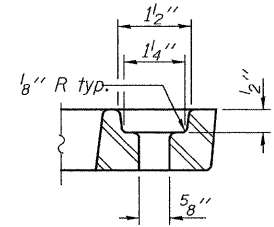
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



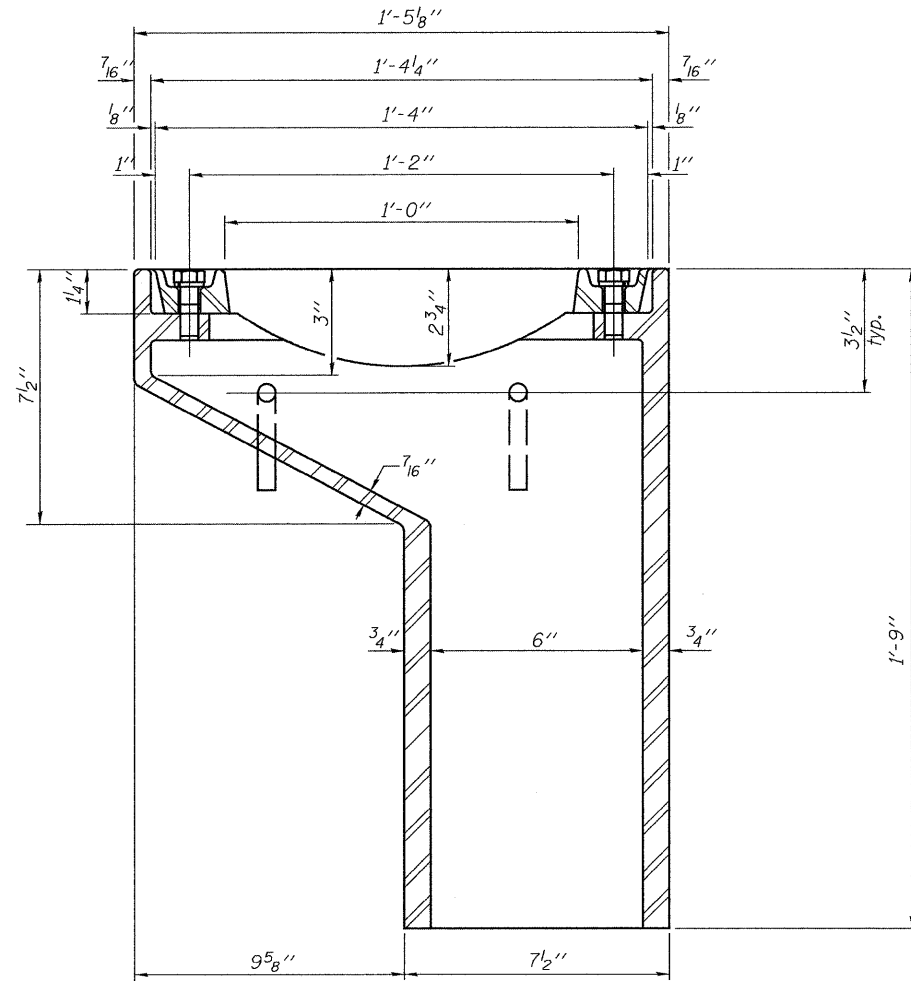
PLAN



VANE GRATE DETAIL

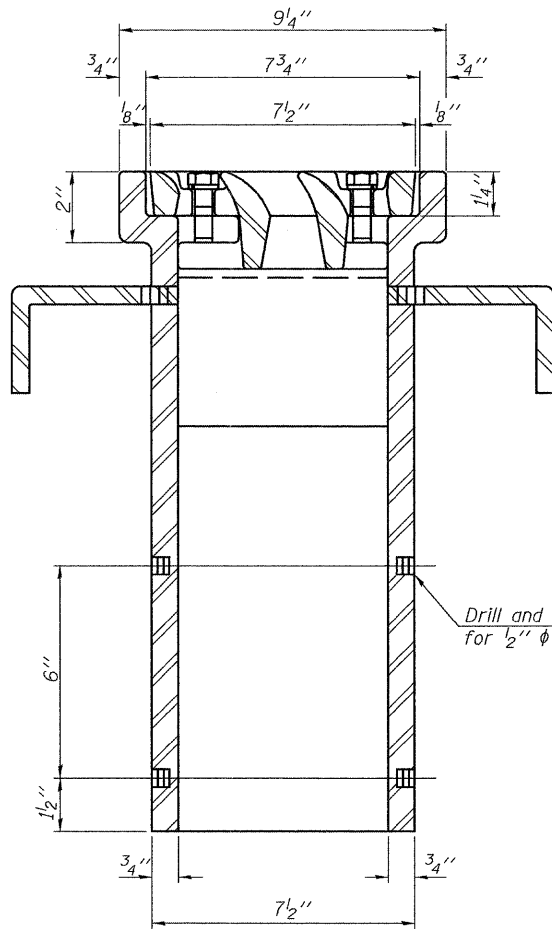


BOLT HOLE DETAIL



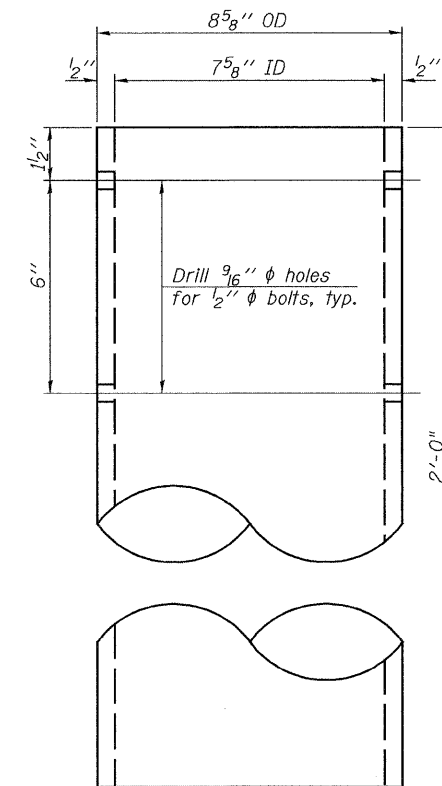
SECTION A-A

See sheet 9 of 22 for scupper location relative to parapet.

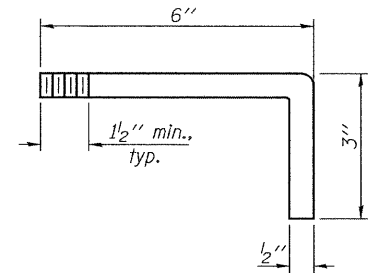


SECTION B-B

Drill and tap 1/2"-13x1/2" DP. for 1/2" φ bolts. (4 locations)



DOWNSPOUT



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	1

DRAINAGE SCUPPER, DS-11
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

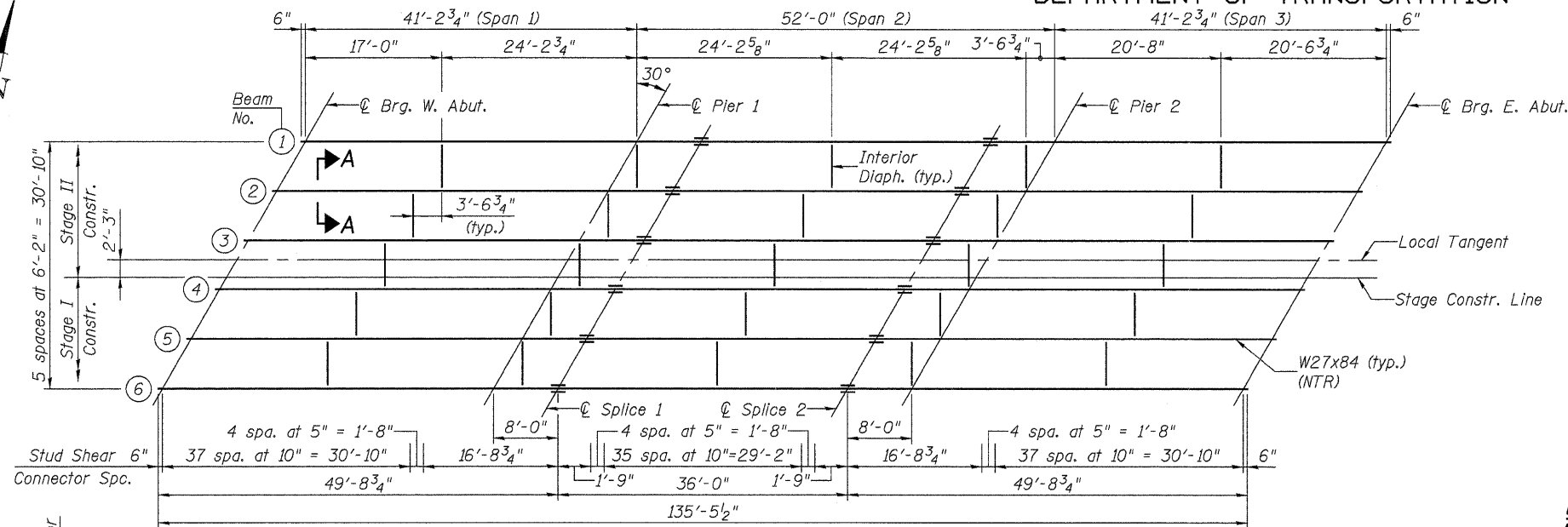
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	STA. 475+19.62			CONTRACT NO. 76886	ILLINOIS FED. AID PROJECT

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DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

DS-11 5-16-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

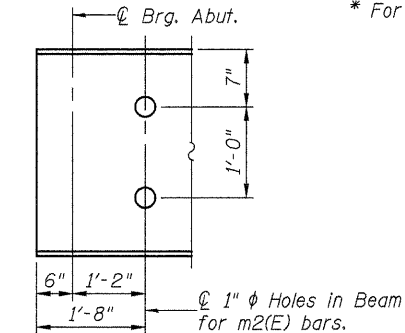


FRAMING PLAN

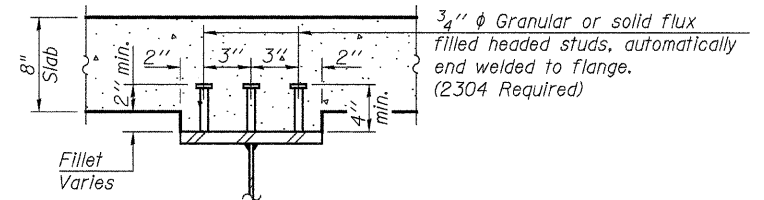
TOP OF BEAM ELEVATIONS*

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
℄ Brg. W. Abut.	511.02	510.80	510.57	510.34	510.12	509.89
℄ Pier 1	511.29	511.06	510.84	510.61	510.38	510.15
℄ Splice 1	511.34	511.11	510.89	510.66	510.43	510.20
℄ Splice 2	511.64	511.41	511.18	510.95	510.72	510.49
℄ Pier 2	511.72	511.49	511.26	511.03	510.80	510.57
℄ Brg. E. Abut.	512.13	511.90	511.67	511.44	511.21	510.98

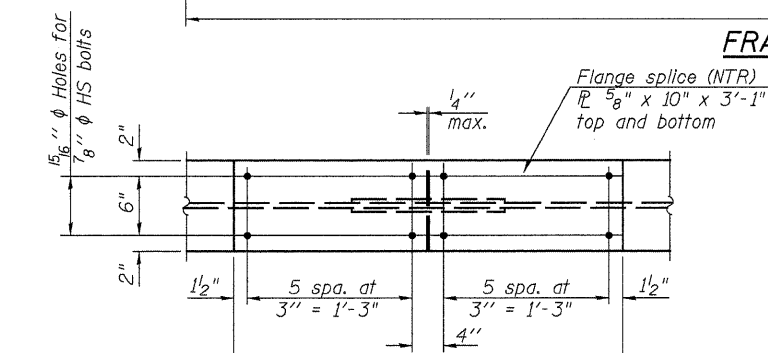
* For Fabrication only. (Theoretical elevations before dead load deflection.)



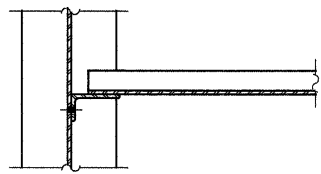
END OF BEAM AT ABUTMENTS



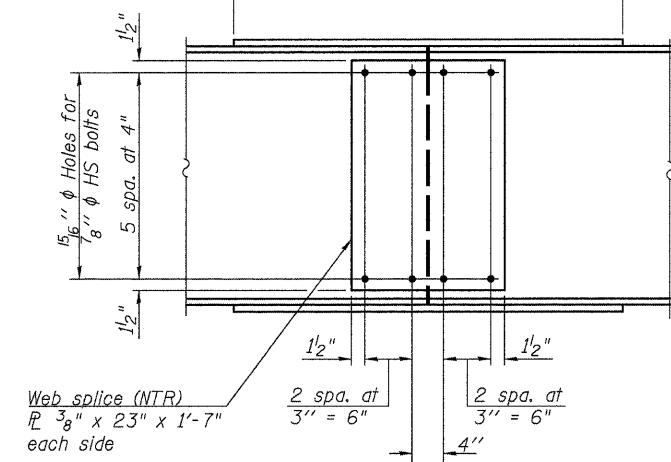
SECTION A-A



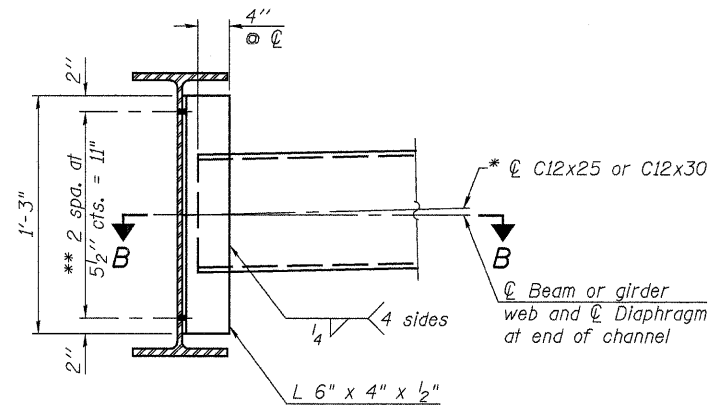
PLAN



SECTION B-B



ELEVATION



INTERIOR DIAPHRAGM

Note:
Two hardened washers required for each set of oversized holes.

* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
** 3/4\"/>

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
I_s	2850	2850	2850
$I_c(n)$	8510	2850	8510
$I_c(3n)$	6391	2850	6391
S_s	213	213	213
$S_c(n)$	327	213	327
$S_c(3n)$	296	213	296
Z	---	---	---
DC1	0.724	0.724	0.724
MDC1	84	160	85
DC2	0.150	0.150	0.150
MDC2	21	25	26
DW	0.278	0.278	0.278
MDW	38	46	48
$M\ell + IM$	408	234	452
M_u (Strength I)	902	710	1002
$\phi_r M_n, \phi_r M_{nc}$	1773	796	1773
f_s DC1	4.7	9.0	4.8
f_s DC2	0.9	1.4	1.1
f_s DW	1.5	2.6	1.9
f_s 1.3($\ell + IM$)	19.5	17.1	21.6
f_s (Service II)	26.6	30.1	29.4
f_s (Total)(Strength I)	---	---	---
V_f	21.3	---	20.3

* Compact sections
** Non-Compact and slender sections

INTERIOR GIRDER REACTION TABLE

	Abut.	Pier
R_{DC1}	11.0	37.6
R_{DC2}	2.5	7.6
R_{DW}	4.6	14.1
$R\ell + IM$	64.3	82.6
R_{Total}	82.4	141.9

Notes:
All structural steel shall be AASHTO M270 Gr. 50W.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All cross frames or 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.

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 (in^4 and in^3).
 $I_c(n), S_c(n)$: 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) due to short-term composite live loads (in^4 and in^3).
 $I_c(3n), S_c(3n)$: 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) due to long-term composite (superimposed) dead loads (in^4 and in^3).
Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in^3).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M\ell + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25(M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M\ell + IM$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
 $\phi_r M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).
 f_s (Service II): Sum of stresses as computed from the moments below (ksi).
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M\ell + IM$
 f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.25(M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M\ell + IM$
 V_f : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

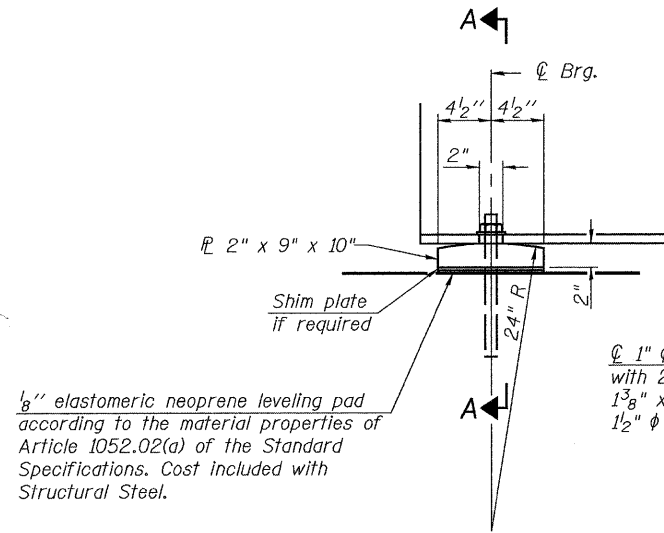
STRUCTURAL STEEL & FRAMING PLAN
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 OF 22	304	5A-BR	CALHOUN	60	35
STA. 475+19.62			CONTRACT NO. 76886		
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

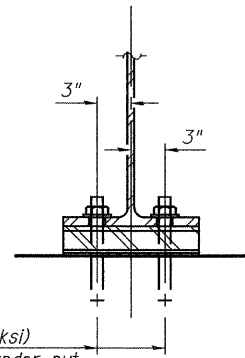
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION AT ABUTMENT

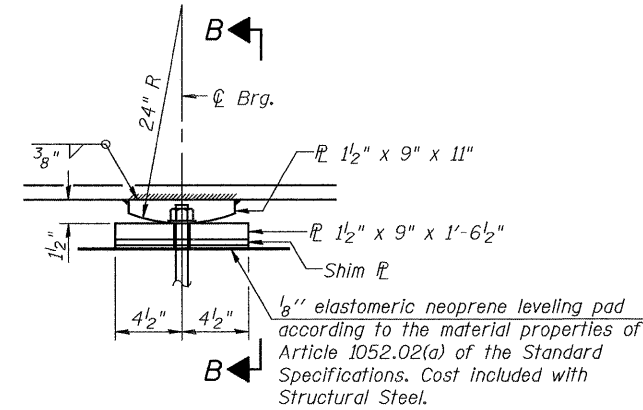
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1" ϕ x 12" anchor bolts (Gr. 36 ksi) with 2 1/4" x 2 1/4" x 5/16" \mathbb{E} washer under nut. 1 3/8" x 2" slotted hole in flange. 1/2" ϕ holes in bearing plate.



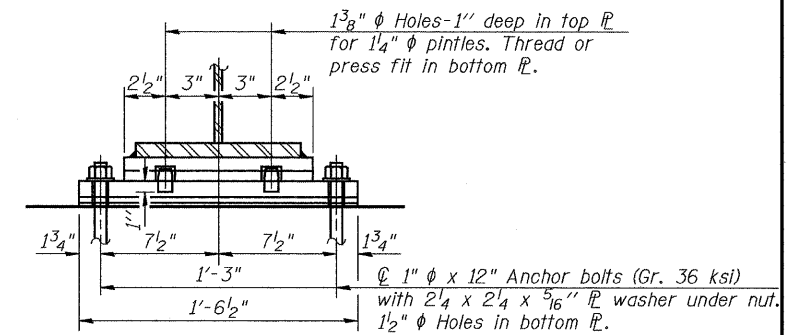
SECTION A-A

FIXED BEARING

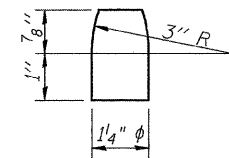


ELEVATION AT PIER

FIXED BEARING



SECTION B-B



PINTLE

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). 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.

Structural Steel for bearings shall be AASHTO M270 Gr. 50W.

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.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	48

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

BEARING DETAILS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 13 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 36
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

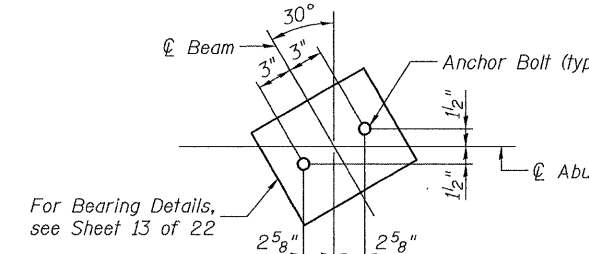
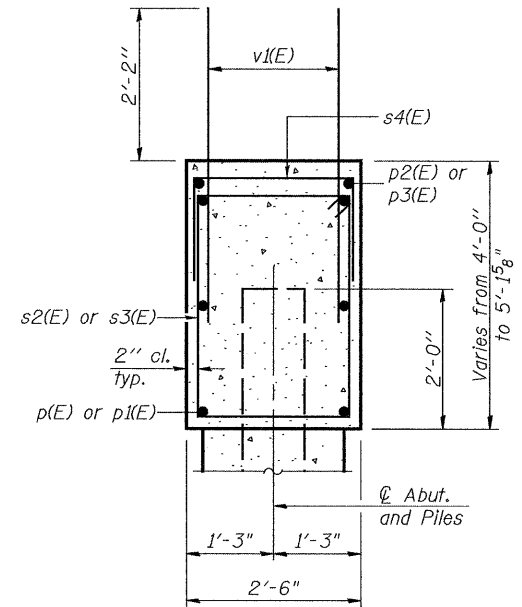
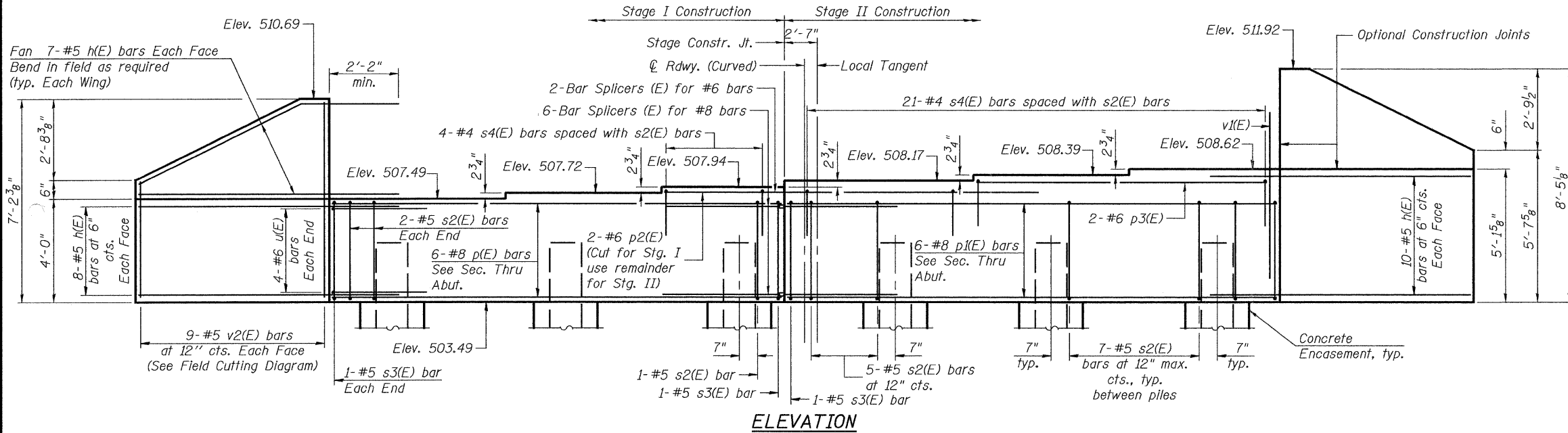
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USER: DCD

DATE: 11/26/2008 10:40:46

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

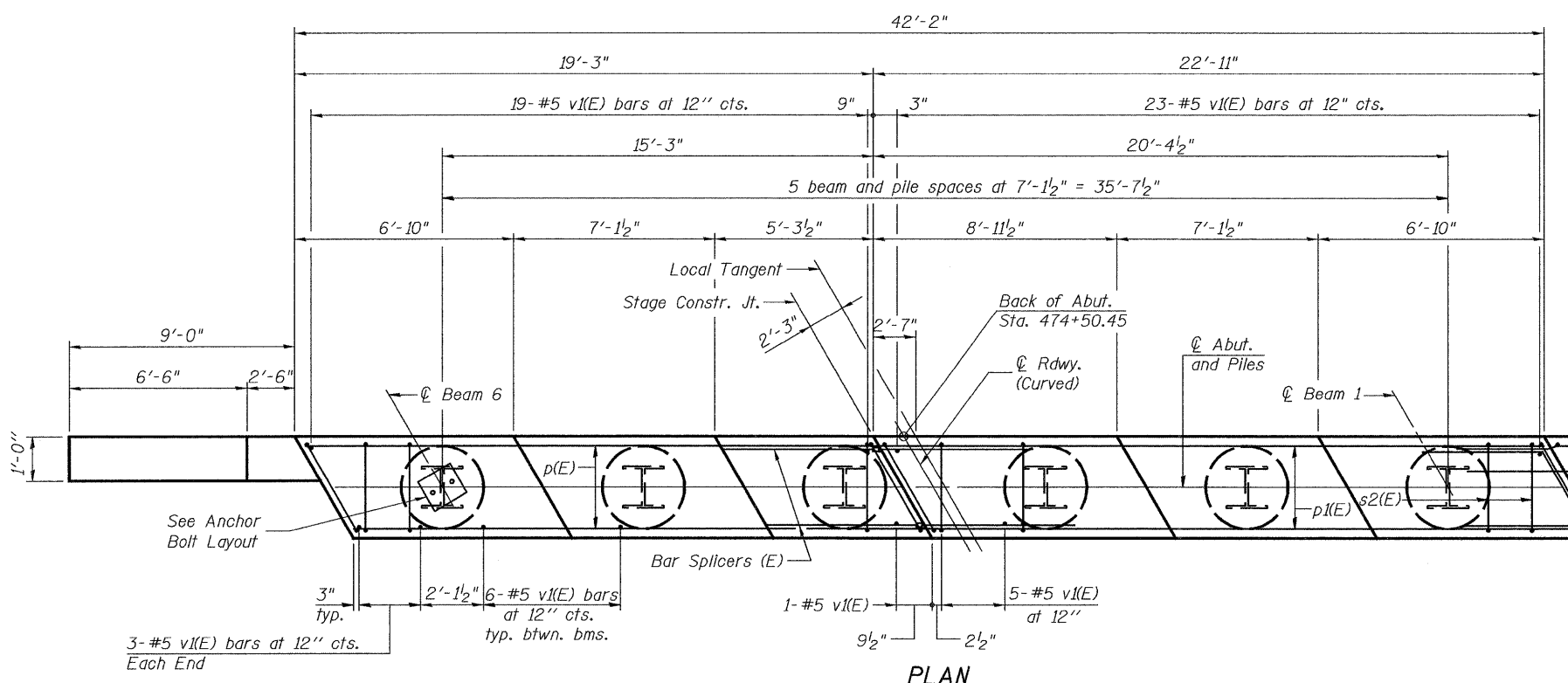


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	64	#5	11'-0"	—
p(E)	6	#8	18'-11"	—
p1(E)	6	#8	22'-7"	—
p2(E)	2	#6	15'-3"	—
p3(E)	2	#6	13'-7"	—
s2(E)	38	#5	12'-7"	□
s3(E)	4	#5	13'-3"	□
s4(E)	25	#4	6'-2"	□
u(E)	8	#6	7'-7"	∩
v1(E)	78	#5	4'-4"	—
v2(E)	18	#5	12'-2"	—
Structure Excavation		Cu. Yd.	70	
Concrete Structures		Cu. Yd.	22.4	
Reinforcement Bars, Epoxy Coated		Pound	2820	
Furnishing Steel Piles HP12x53		Foot	275	
Driving Piles		Foot	275	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	6	
Concrete Encasement		Cu. Yd.	2.1	

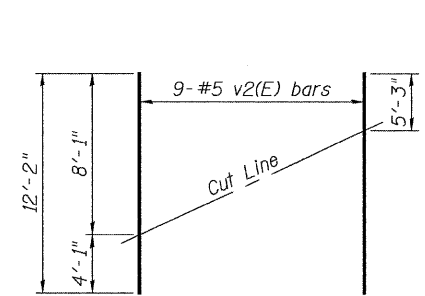
For details of Bar Splicers, see sheet 18 of 22.
For details of piles and Concrete Encasement, see sheet 17 of 22.

**WEST ABUTMENT
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028**



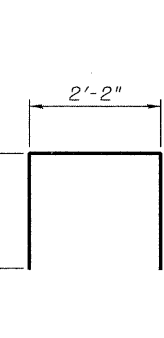
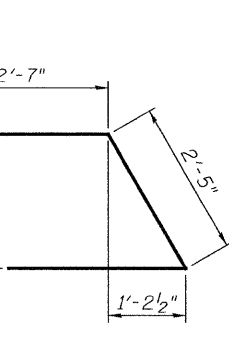
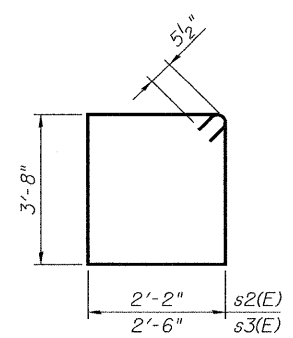
PILE DATA

Type: Steel-HP 12x53 with Pile Shoes
Nominal Required Bearing: 260 kips
Factored Resistance Available: 130 kips
Est. Length: 55'
No. Production Piles: 5
No. Test Piles: 1



FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ DRAWN: SJS
CHECKED: DCD CHECKED: DCD

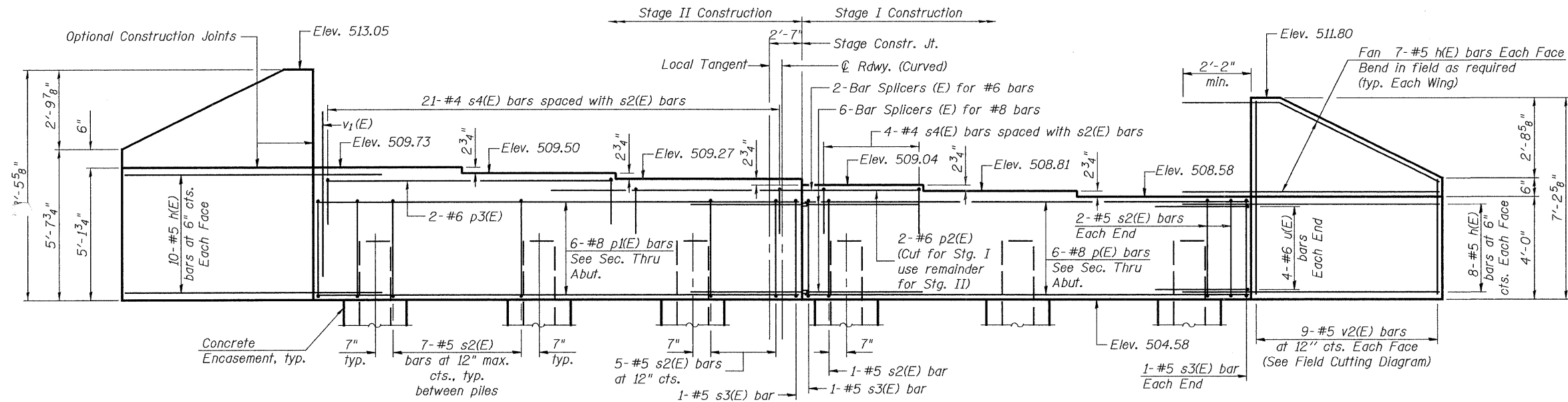
AI-L 5-16-08

SHEET 14 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 37
		STA. 475+19.62	CONTRACT NO. 76886		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

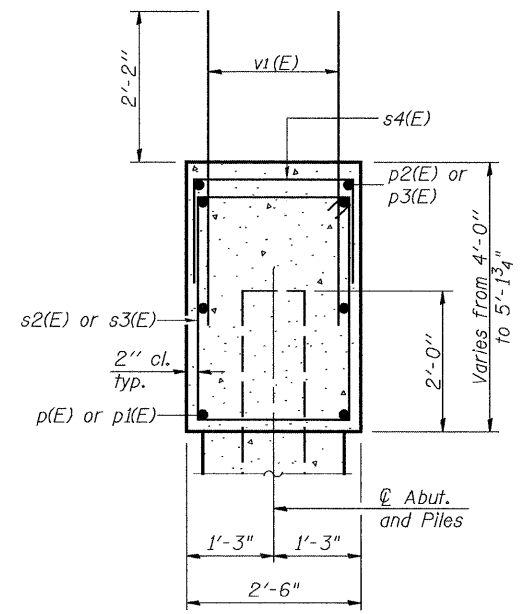
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Note: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

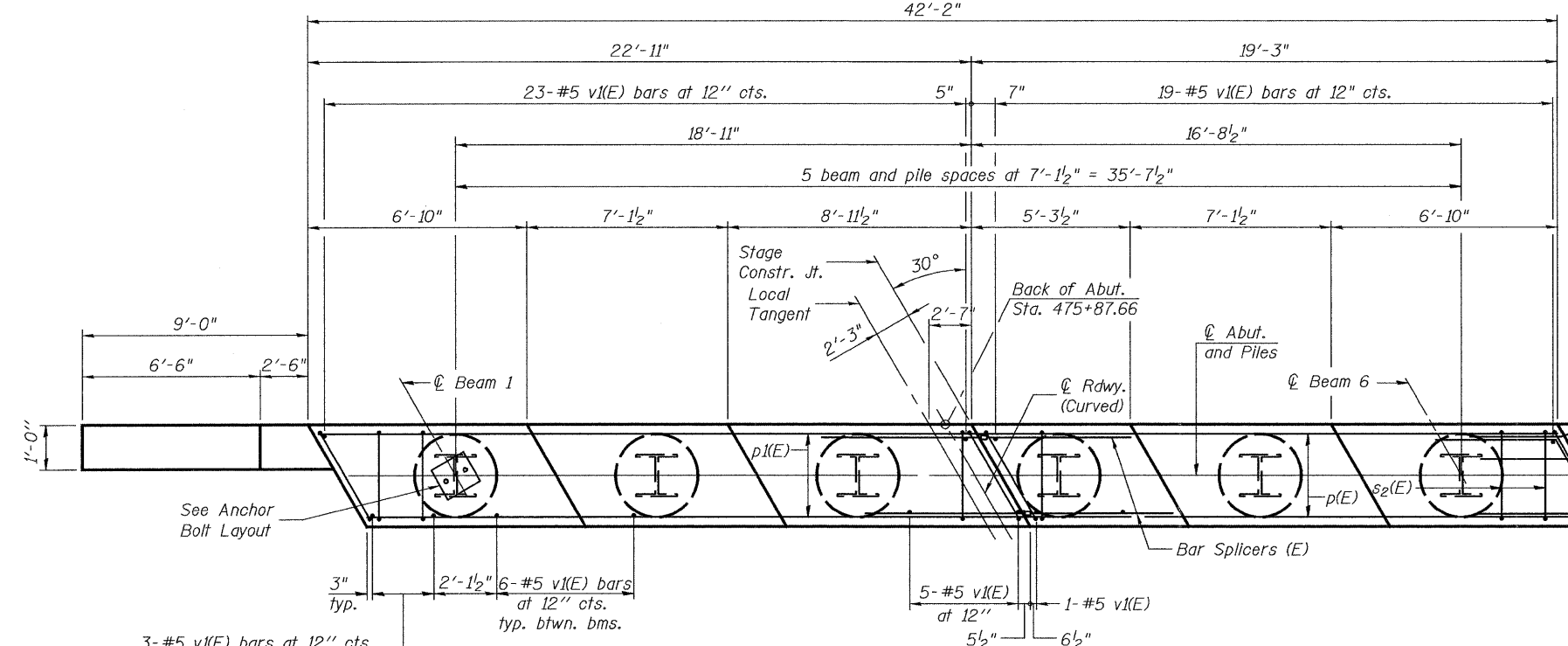
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



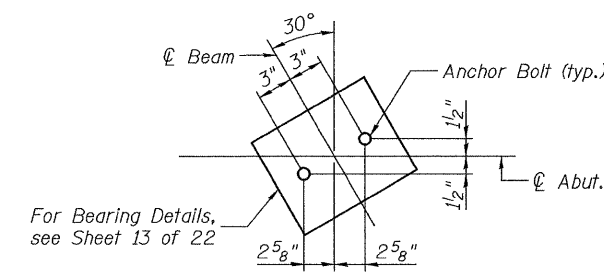
ELEVATION



SEC. THRU ABUT.



PLAN



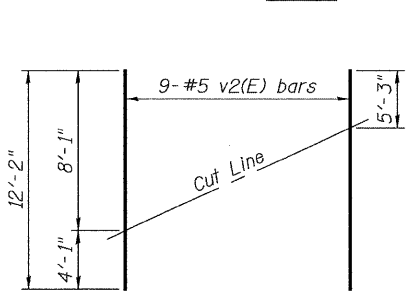
ANCHOR BOLT LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	64	#5	11'-0"	—
p(E)	6	#8	18'-11"	—
p1(E)	6	#8	22'-7"	—
p2(E)	2	#6	15'-3"	—
p3(E)	2	#6	13'-7"	—
s2(E)	38	#5	12'-7"	□
s3(E)	4	#5	13'-3"	□
s4(E)	25	#4	6'-2"	□
u(E)	8	#6	7'-7"	△
v1(E)	78	#5	4'-4"	—
v2(E)	18	#5	12'-2"	—
Structure Excavation		Cu. Yd.	161	
Concrete Structures		Cu. Yd.	22.4	
Reinforcement Bars, Epoxy Coated		Pound	2820	
Furnishing Steel Piles HP12x53		Foot	325	
Driving Piles		Foot	325	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	6	
Concrete Encasement		Cu. Yd.	2.1	

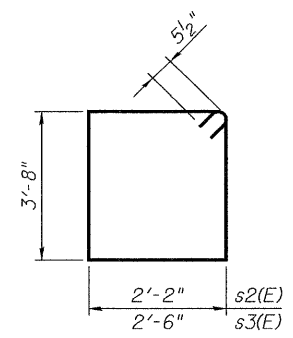
For details of Bar Splicers, see sheet 18 of 22.
For details of piles and Concrete Encasement, see sheet 17 of 22.

EAST ABUTMENT
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

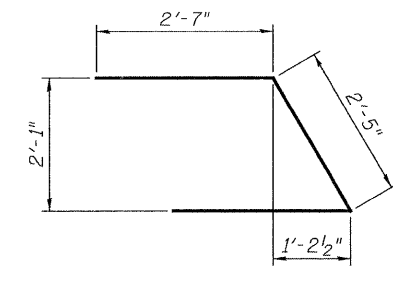


FIELD CUTTING DIAGRAM

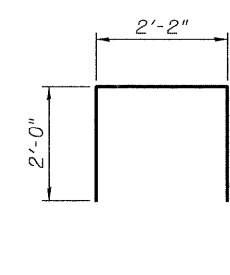
Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



BARS s2(E) & s3(E)



BAR u(E)



BAR s4(E)

PILE DATA

Type: Steel-HP 12x53 with Pile Shoes
Nominal Required Bearing: 260 kips
Factored Resistance Available: 130 kips
Est. Length: 65'
No. Production Piles: 5
No. Test Piles: 1

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDO	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

AI-L 5-16-08

SHEET 15 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 38
	STA. 475+19.62		CONTRACT NO. 76886		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

FILE: J:\JDO\10164 IL-08VWing IL-96 Fox Creek-FINAL\FoxCreek\5abutment2.dgn USER: DCD DATE: 11/26/2008 10:40:51

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 If a portion of the pier wall 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.

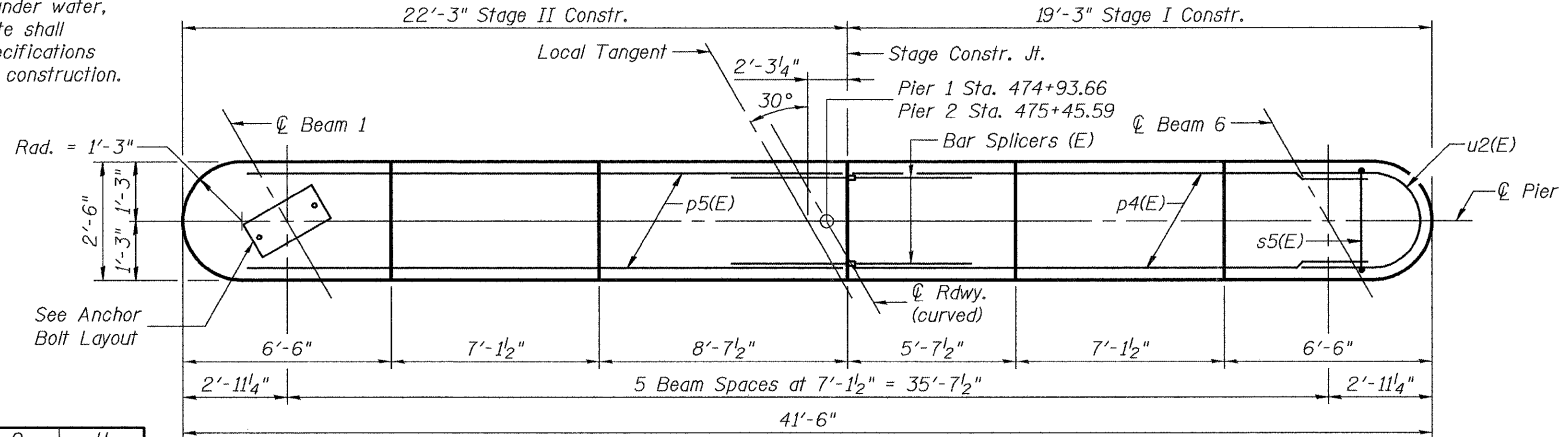
PILE DATA

Type: Steel-HP 12x53 with Pile Shoes
 Nominal Required Bearing: 412 kips
 Factored Resistance Available: 206 kips
 Est. Length: 55' (Pier 1), 65' (Pier 2)
 No. Production Piles: 5 (each Pier)
 o. Test Piles: 1 (each Pier)

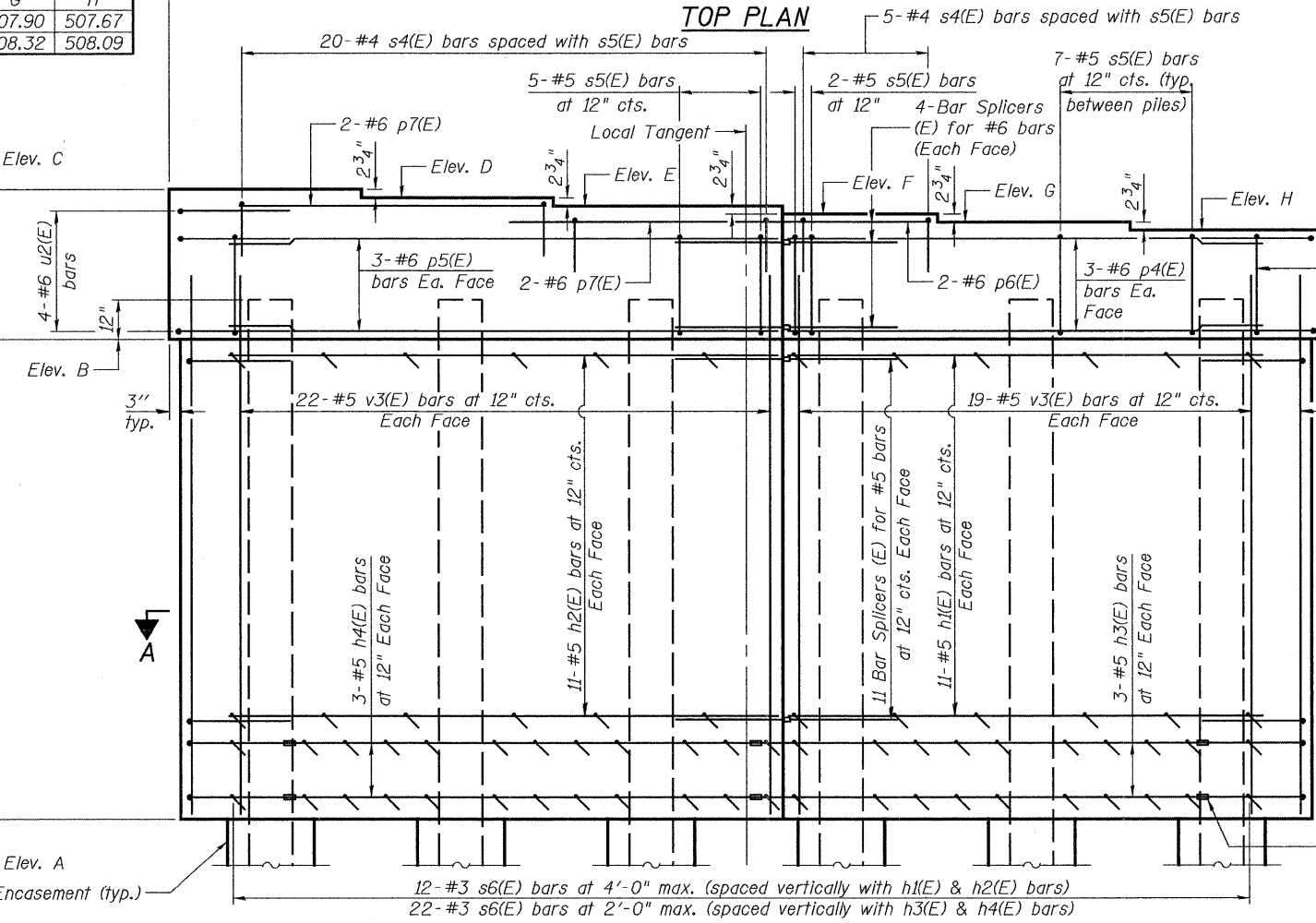
TABLE OF ELEVATIONS

Location	A	B	C	D	E	F	G	H
Pier 1	491.92	505.17	508.80	508.58	508.35	508.12	507.90	507.67
Pier 2	491.92	505.59	509.23	509.00	508.78	508.55	508.32	508.09

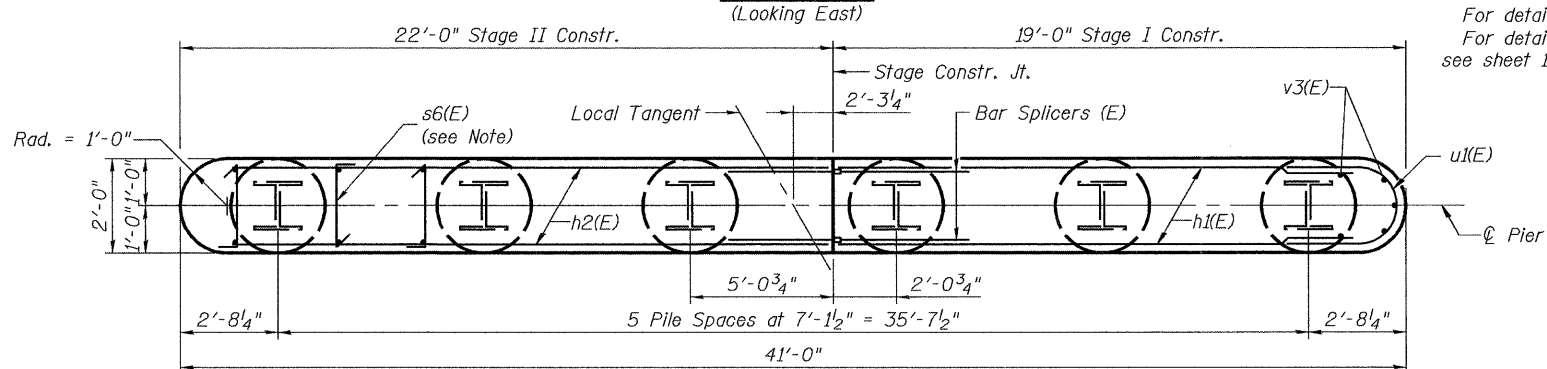
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



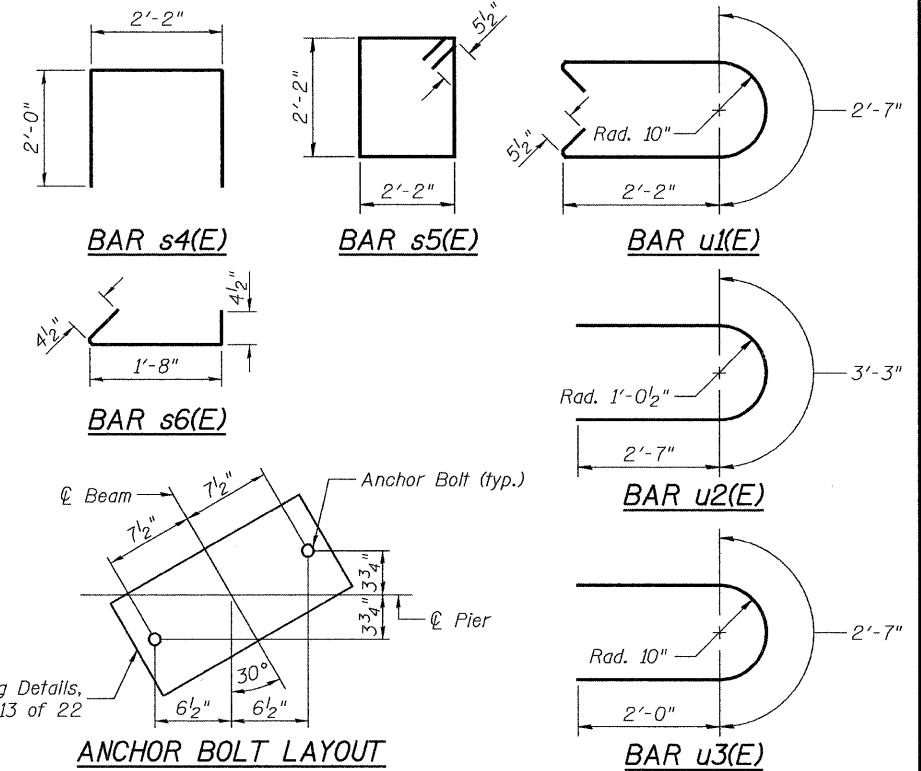
TOP PLAN



ELEVATION
 (Looking East)



SECTION A-A



ANCHOR BOLT LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	22	#5	17'-10"	—
h2(E)	22	#5	20'-10"	—
h3(E)	6	#5	16'-6"	—
h4(E)	6	#5	18'-6"	—
p4(E)	6	#6	17'-10"	—
p5(E)	6	#6	20'-10"	—
p6(E)	2	#6	5'-3"	—
p7(E)	4	#6	12'-2"	—
s4(E)	25	#4	6'-2"	⊏
s5(E)	37	#5	9'-7"	⊏
s6(E)	198	#3	2'-5"	⊏
u1(E)	22	#5	7'-10"	⊏
u2(E)	7	#6	8'-5"	⊏
u3(E)	6	#5	6'-7"	⊏
v3(E)	88	#5	14'-6"	—

		Pier 1	Pier 2
Concrete Structures	Cu. Yd.	51.5	52.7
Reinforcement Bars, Epoxy Coated	Pound	3840	3840
Furnishing Steel Piles HP12x53	Foot	275	325
Driving Piles	Foot	275	325
Test Pile Steel HP12x53	Each	1	1
Pile Shoes	Each	6	6
Concrete Encasement	Cu. Yd.	2.1	2.1
Mechanical Splice	Each	18	18
Underwater Structure Excav. Prof.-Loc. 1	Each	1	-
Underwater Structure Excav. Prof.-Loc. 2	Each	-	1

Notes:
 Reinforcement Bar list is for one Pier only.
 For details of Bar Splicers, see sheet 18 of 22.
 For details of piles and Concrete Encasement, see sheet 17 of 22.

MIN. BAR LAP

#5 Bar = 2'-2"
 #6 bar = 2'-7"

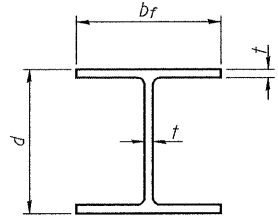
**PIERS 1 AND 2
 ILLINOIS 96 OVER
 FOX CREEK
 STRUCTURE NO. 007-0028**

SHEET 16 OF 22	F.A.P. RTE. 304	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		5A-BR	CALHOUN	60	39
STA. 475+19.62		CONTRACT NO. 76886			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

Johnson, Depp & Quisenberry
 CONSULTING ENGINEERS
 Springfield, Illinois

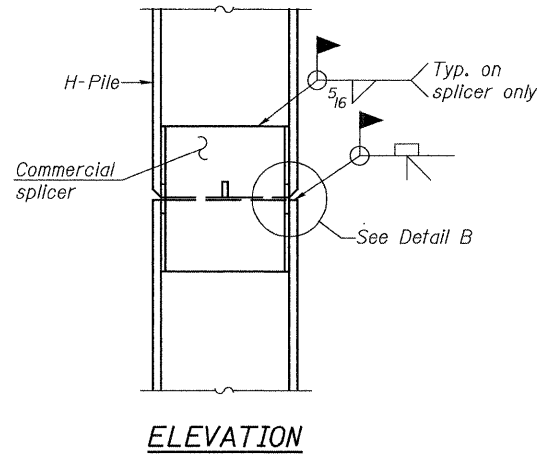
DESIGNED: JDQ	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

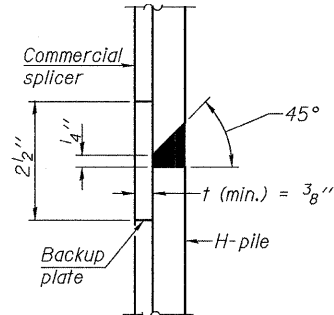


STEEL PILE TABLE

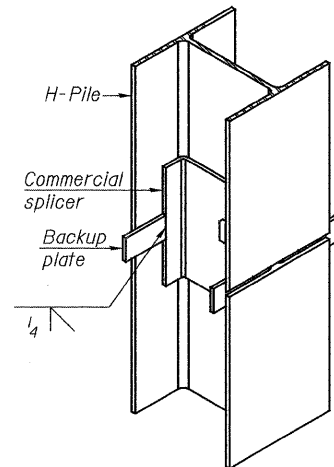
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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

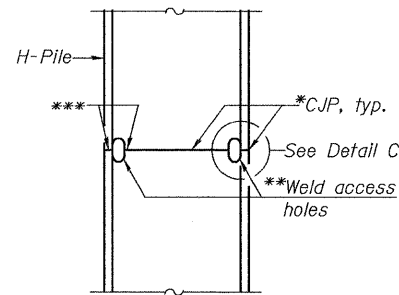


DETAIL "B"

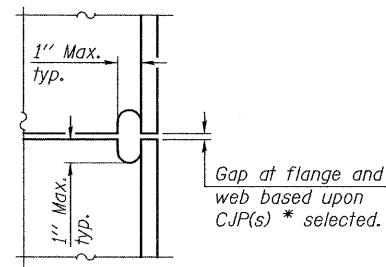


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



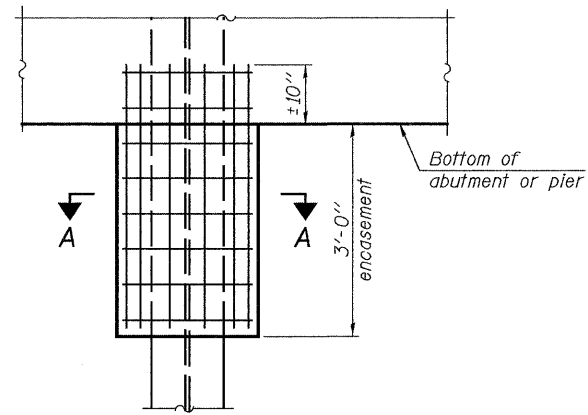
ELEVATION



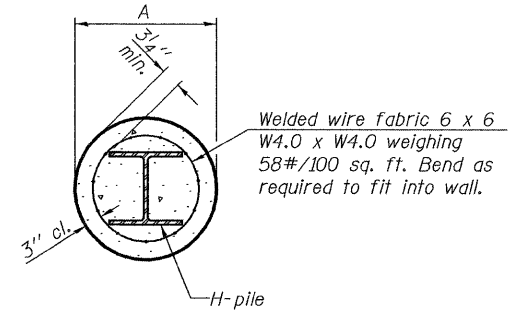
DETAIL C

COMPLETE PENETRATION WELD SPLICE

- *Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code-Steel.
- **Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code-Steel.
- ***Interrupt welds 1/4" from end of each pile.



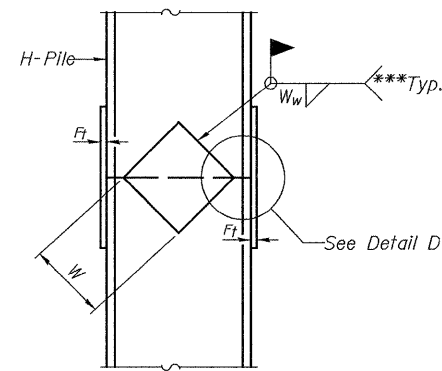
ELEVATION



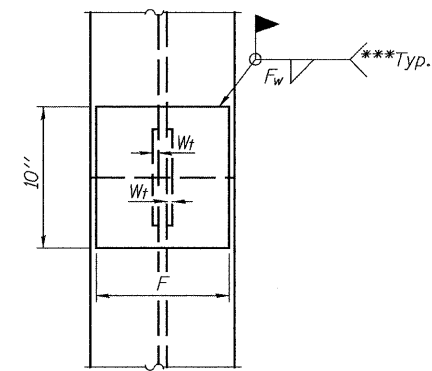
SECTION A-A

PILE ENCASEMENT

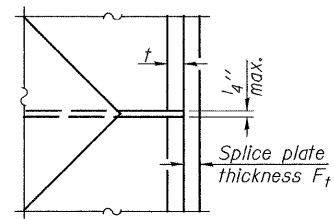
Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



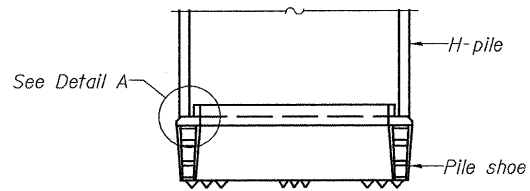
DETAIL D

WELDED PLATE FIELD SPLICE

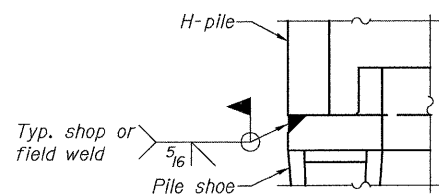
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"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

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

HP PILE DETAILS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

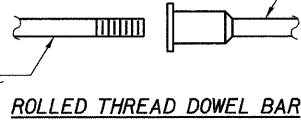
F-HP 5-16-08

SHEET 17 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 40
	STA. 475+19.62			CONTRACT NO. 76886	
	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

The diameter of this part is equal or larger than the diameter of bar spliced.

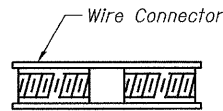
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



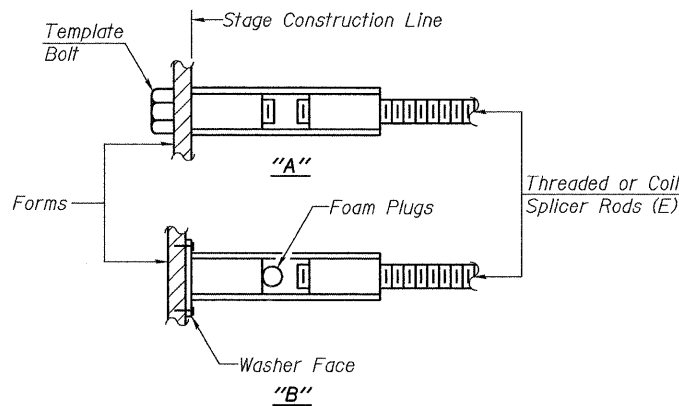
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

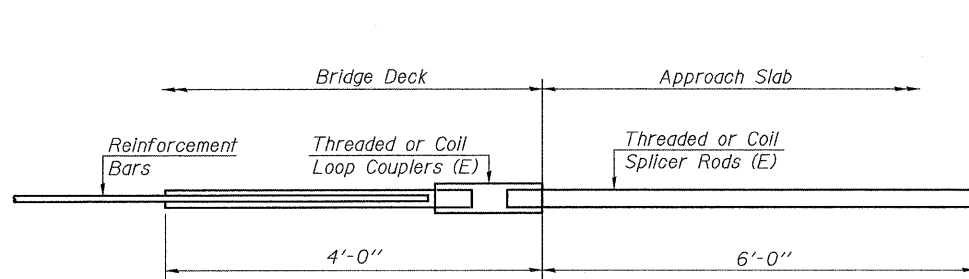
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

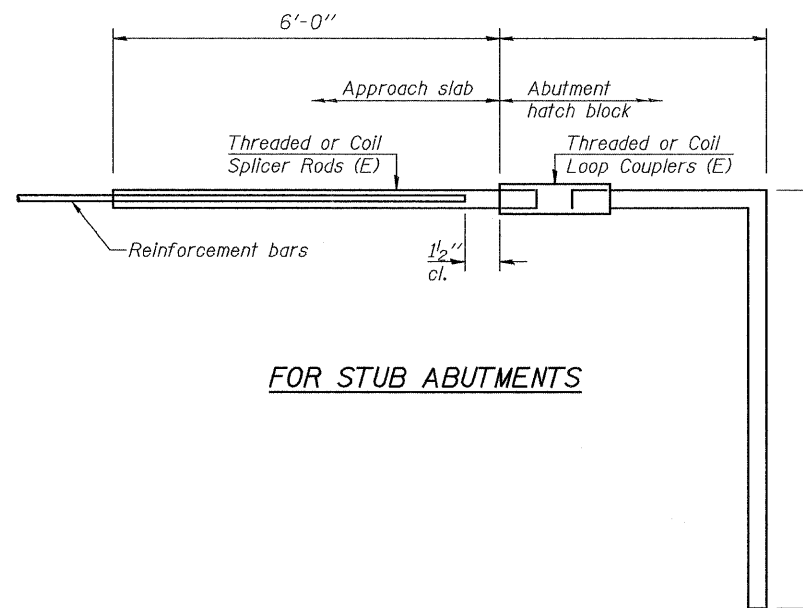
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

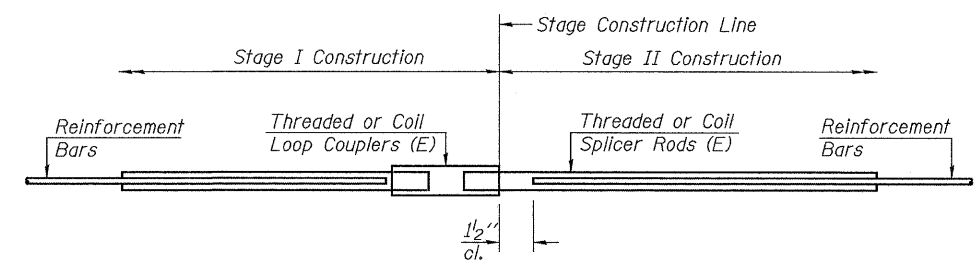
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required = 66	

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required =	

Bar Size	No. Assemblies Required	Location
#5	409	Deck
#6	16	Abut. Diaph.
#8	12	Abutments
#6	4	Abutments
#6	16	Piers
#5	44	Piers

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

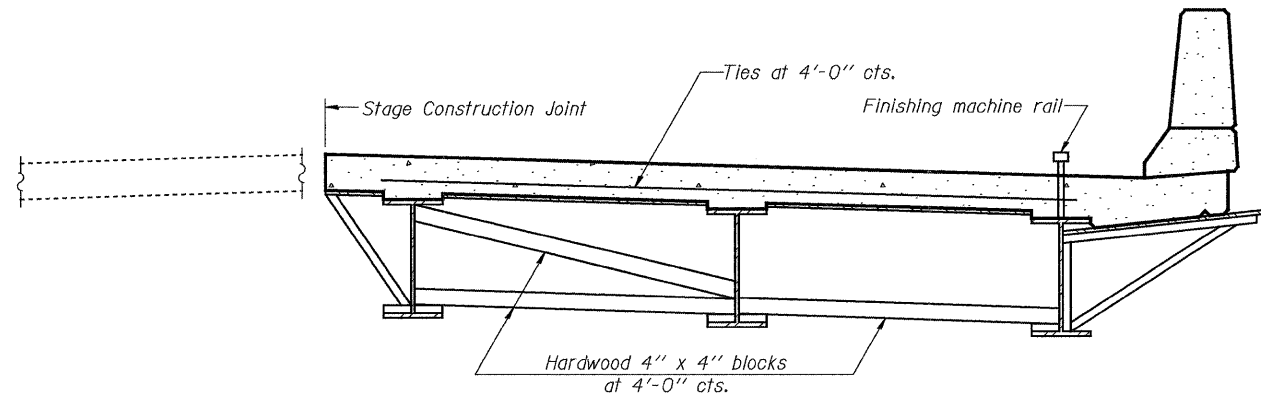
BSD-1 5-16-08

BAR SPLICER ASSEMBLY DETAILS
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 18 OF 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 41
	STA. 475+19.62			CONTRACT NO. 76886	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

FILE: J:\JDQ\11064 IL DBV\9 IL 96 Fox Creek-FINAL\1-FoxCreek\IBarsplicer.dgn
USER: DCD
DATE: 11/26/2008 10:40:59

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



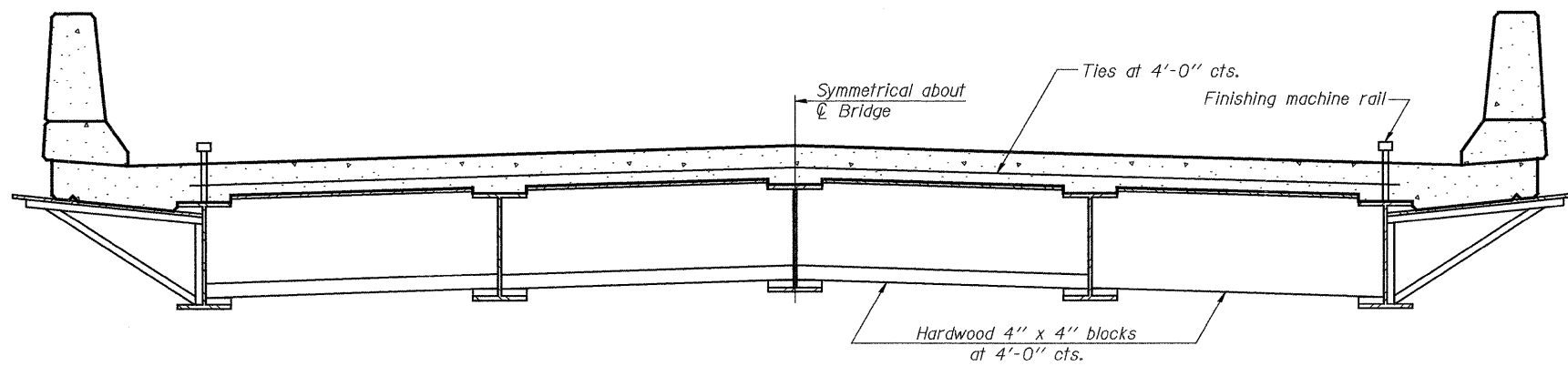
FORM BRACES FOR STAGE CONSTRUCTION

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR STANDARD CONSTRUCTION

CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

DESIGNED: JDQ	DRAWN: SJS
CHECKED: DCD	CHECKED: DCD

SB-1

5-16-08

SHEET 19 OF 22	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	304	5A-BR	CALHOUN	60	42
STA. 475+19.62		CONTRACT NO. 76886			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

FILE: J:\JDQ\1064 IL 96 Fox Creek-FINAL\FoxCreek\19formbrkt.dgn

USER: DCD

DATE: 11/26/2008 10:41:02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/10/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 14, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E) / 007-0028 (P)
Station 475+15

BORING NO. E. Abut.
Station 476+00
Offset 19.50ft RT
Ground Surface Elev. 510.5 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
7				477.0	5			
9	0.62	16			7	1.63	24	
7	B20				7	B20		
3					2			
2	0.36	8			2	1.20	24	
4	S20				4	B20		
505.5	-5			485.5	-25			
9				6				
14	0.41	31		5	1.87	26		
19	S10			4	B20			
503.0				4				
5				7	1.63	27		
4	0.12	23		24	B20			
4	S5			-30				
500.5	-10							
10								
12	0.59	24						
	B20							
498.0								
8								
11				477.0	9			
9	NC	11			15	2.93	19	
495.5	-15				13	S20		
13					-35			
21	0.62	14						
21	S15							
493.0								
8				472.5				
4	1.11	21			4			
4	B20				5	1.76	27	
-20					7	B20		

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, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 10/10/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 14, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E) / 007-0028 (P)
Station 475+15

BORING NO. E. Abut.
Station 476+00
Offset 19.50ft RT
Ground Surface Elev. 510.5 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
5				477.0	5			
7	1.63	24			7			
7	B20				7			
2					2			
2	1.20	24			2	1.20	24	
4	B20				4	B20		
467.0				450.0				
5								
9	2.57	17			9	2.57	17	
16	S10				16	S10		
467.0					4			
4					4			
6					6			
10	2.66	20			10	2.66	20	
11	B10				11	B10		
456.5					6			
6	0.59	45			6	0.59	45	
13	B20				13	B20		
453.0					3			
502"					56			
-60								

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

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: IDOT DRAWN: SJS
CHECKED: DCD CHECKED: DCD

SOIL BORINGS (1 OF 3)
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 20 OF 22	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	304	5A-BR	CALHOUN	60	43
		STA. 475+19.62	CONTRACT NO.	76886	
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FILE: J:\DQ\10164 IL 96 Fox Creek-FINAL\FoxCreek\20borings.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 12/4/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 14, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E)/
007-0028 (P)
Station 475+15

BORING NO. SB 2
Station 475+00
Offset 60.00ft RT
Ground Surface Elev. 494.1 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
6					11	3.01	17	
12	1.04	21			12			
15	B/20				9	4.00	20	
489.6				489.6	9	P		
12					0			
9	NC	20			6	1.00	23	
8					0	P		
487.1				487.1	0			
2					0	2.70	25	
9	1.63	26			0	P		
13	B/20				0			
484.6				484.6	27			
5					23		32	
6					-			
15	NC				400.75			
482.6				482.6	461.1		78	
3								
4	1.79	20						
5	B/20							
479.6				479.6				
8								
12								
12	NC	19						
476.1				476.1				
4								
12	1.50	19						
15								
Weathered SHALE with Aggregate								
8								
40								

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 T208)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 11/9/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 14, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E)/
007-0028 (P)
Station 475+15

BORING NO. W. Abut.
Station 474+50
Offset 17.00ft RT
Ground Surface Elev. 503.6 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
11	3.01	17			4	1.21	21	
12					4			
9	4.00	20			7	1.11	21	
9	P				3	B/20		
499.1				499.1	2			
6					2	0.65	31	
6	0.29	17			4	B/20		
6	S/10				16			
16					14	2.80	19	
40	2.00				25	S/15		
50	P				473.6	-30		
494.1				494.1	6			
6					8	0.70	15	
8	S/10				6	S/10		
491.6				491.6	5			
5					6	0.70	15	
6	0.70	15			12	S/10		
12	S/10				3			
15					3	0.29	22	
15					6	B/20		
486.6				486.6	15			
7	1.00	15			12			
6	P				19	1.14	20	
Clay LOAM with Weathered Shale					31	B/20		
466.6				466.6				
20								
5								
40								

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 T208)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 11/9/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 14, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E)/
007-0028 (P)
Station 475+15

BORING NO. W. Abut.
Station 474+50
Offset 17.00ft RT
Ground Surface Elev. 503.6 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
461.1	500.5	NC	24		461.1	500.5	NC	24
END OF BORING								

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 T208)
BBS, from 137 (Rev. 8-99)



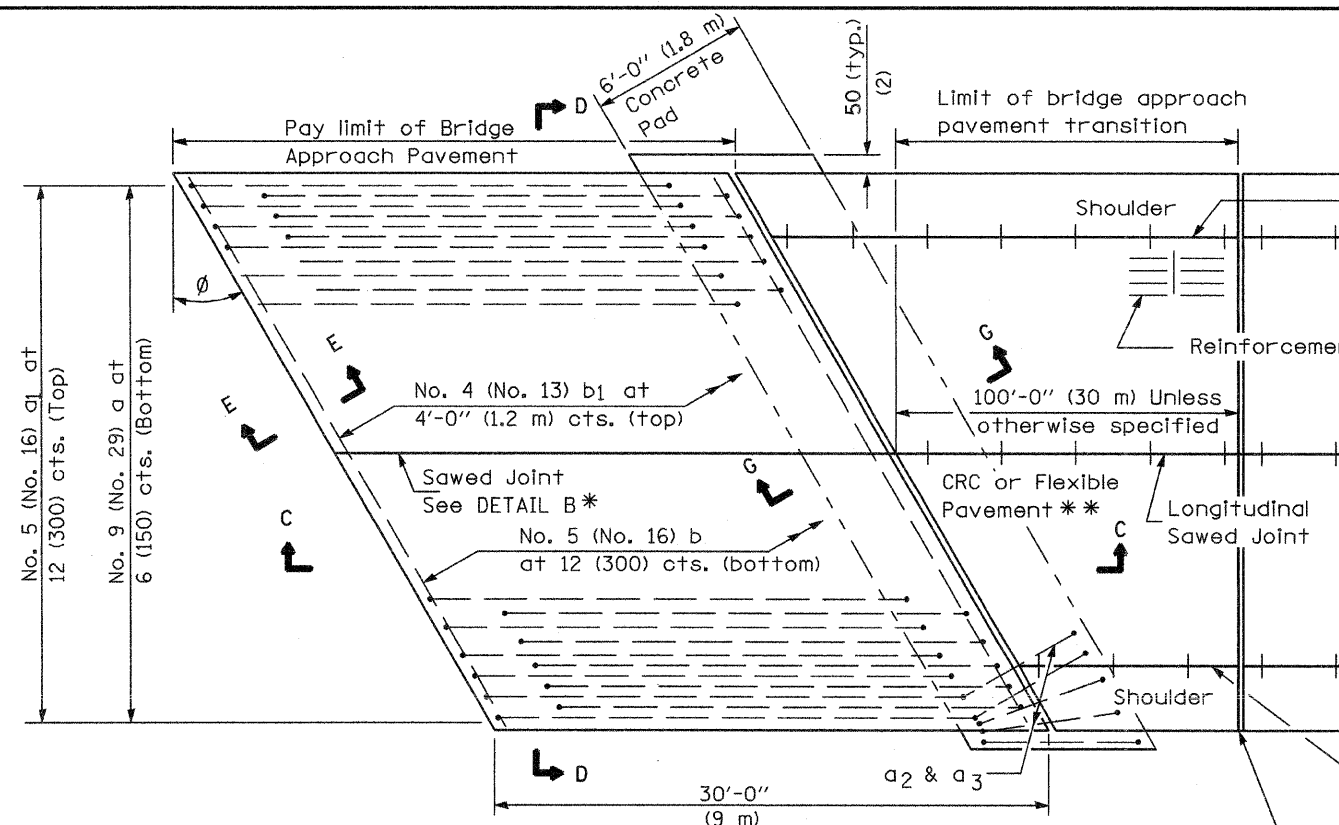
Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: <u>IDOT</u>	DRAWN: <u>SJS</u>
CHECKED: <u>DCD</u>	CHECKED: <u>DCD</u>

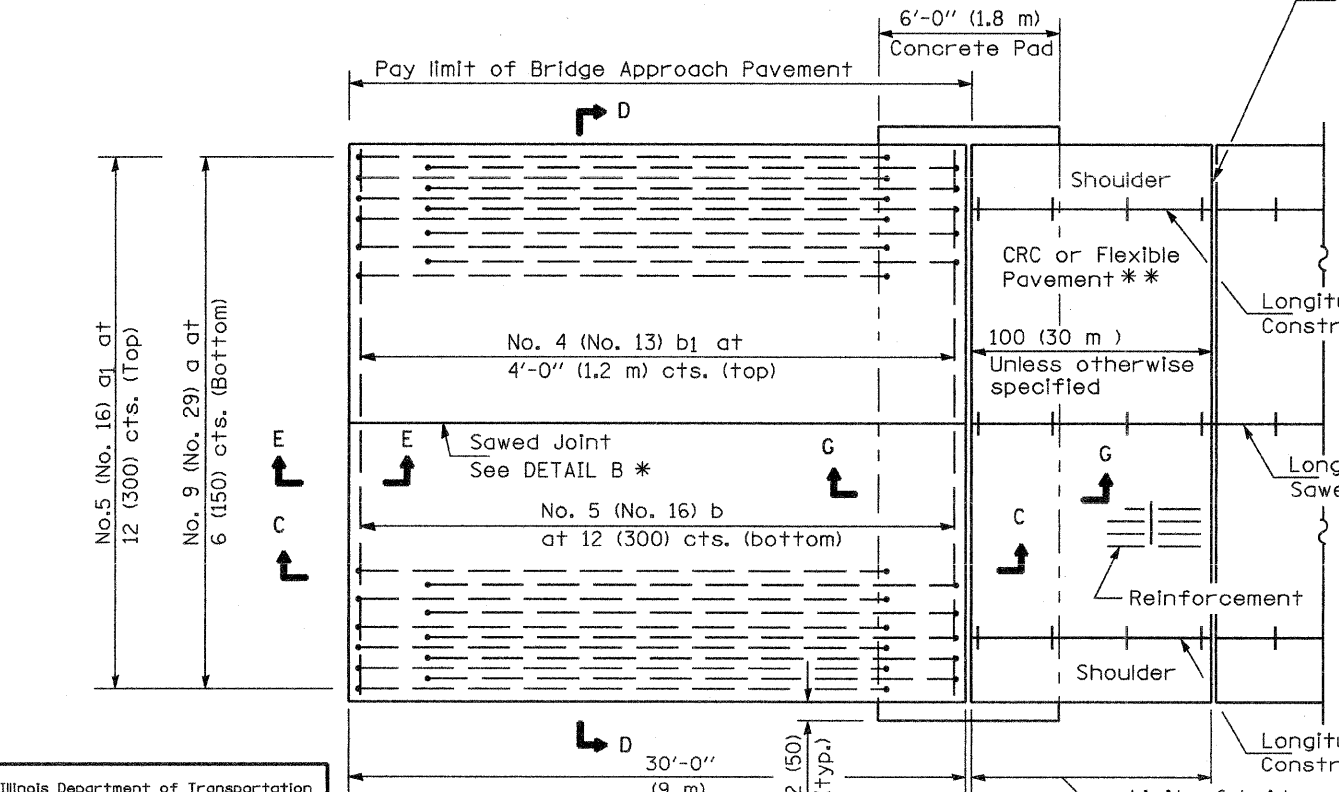
SOIL BORINGS (3 OF 3)
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 22	F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 45
OF 22	STA. 475+19.62		CONTRACT NO. 76886		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

FILE: J:\JDD\10164 IL 96 Fox Creek-FINAL\FoxCreek\22borings.dgn USER: DCD DATE: 11/26/2008 10:41:16

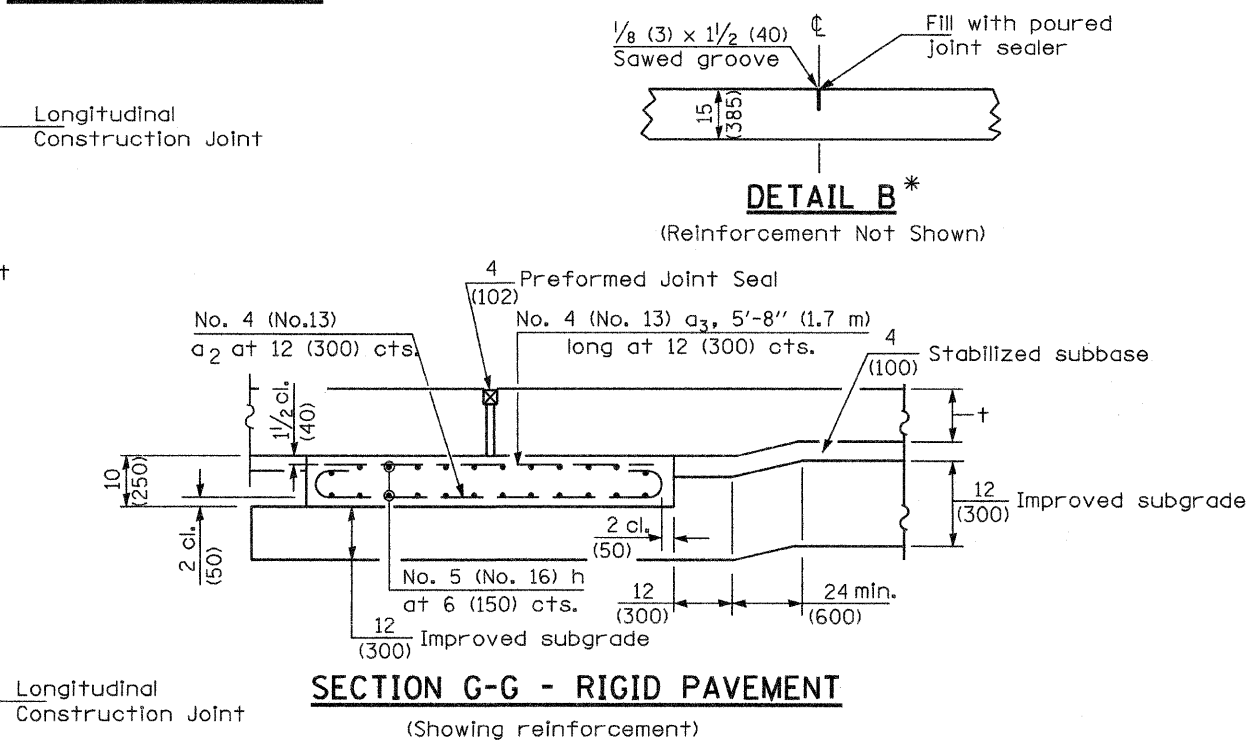


PLAN - WITH SKEW



PLAN - WITHOUT SKEW

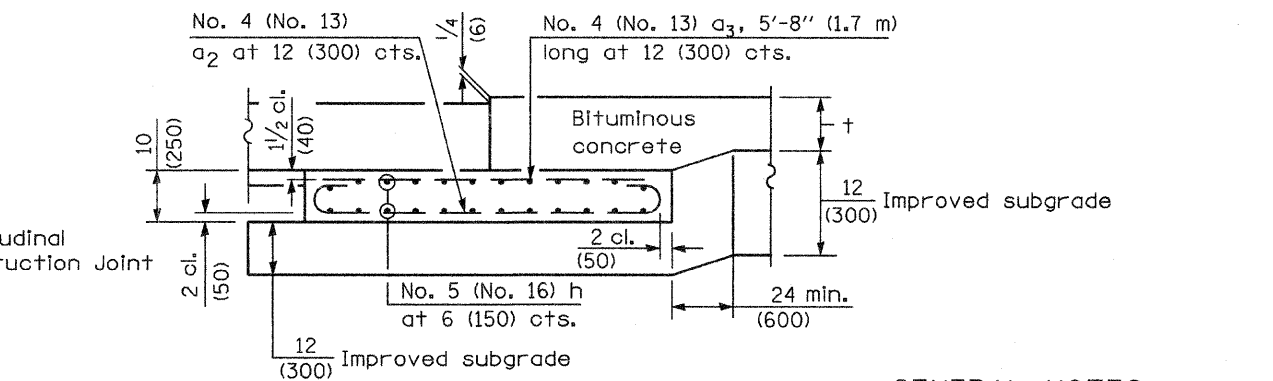
NEW CONSTRUCTION



SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)

Rigid Pavement only:
Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

GENERAL NOTES

- THICKNESS-"t"=Thickness of Pavement.
- See Standard 421001 for reinforcement details not shown.
- See Standard 420001 for joint details not shown.
- All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Ken C. Han
ENGINEER OF DESIGN AND ENVIRONMENT

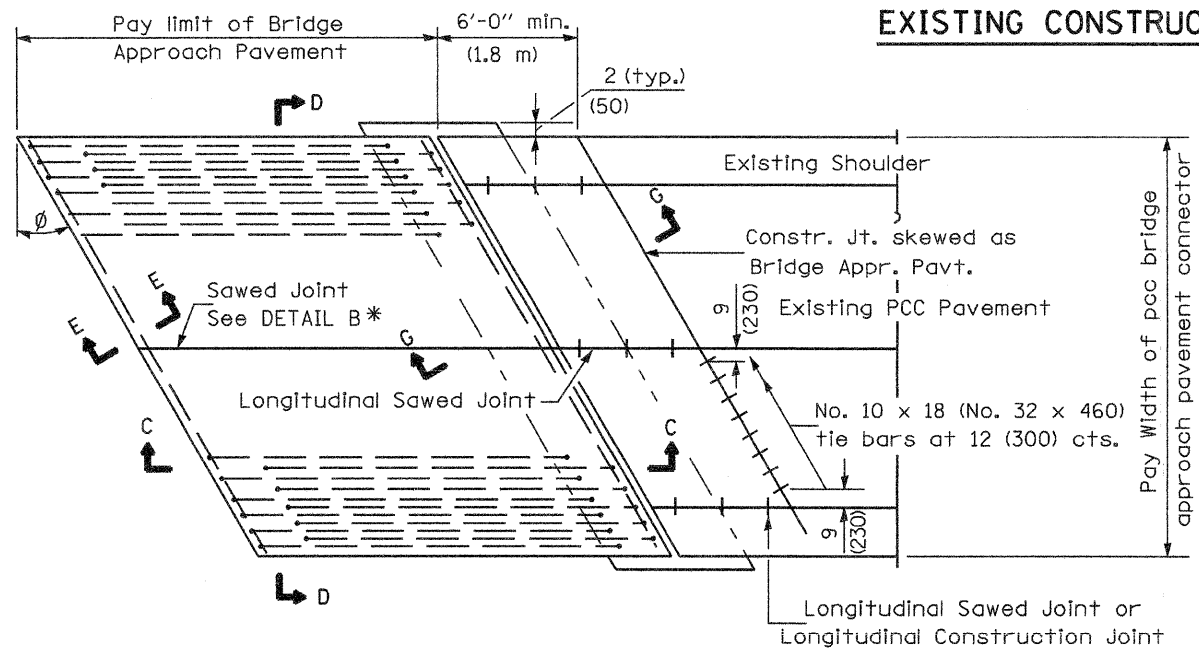
16-1-1 GENISSI

DATE	REVISIONS
1-1-08	Switched units to English (metric). Moved rebar epoxy coat note to Standard Spec.
1-1-04	Rev. size of Trans. Exp. Jt. and soft converted metric reinf.

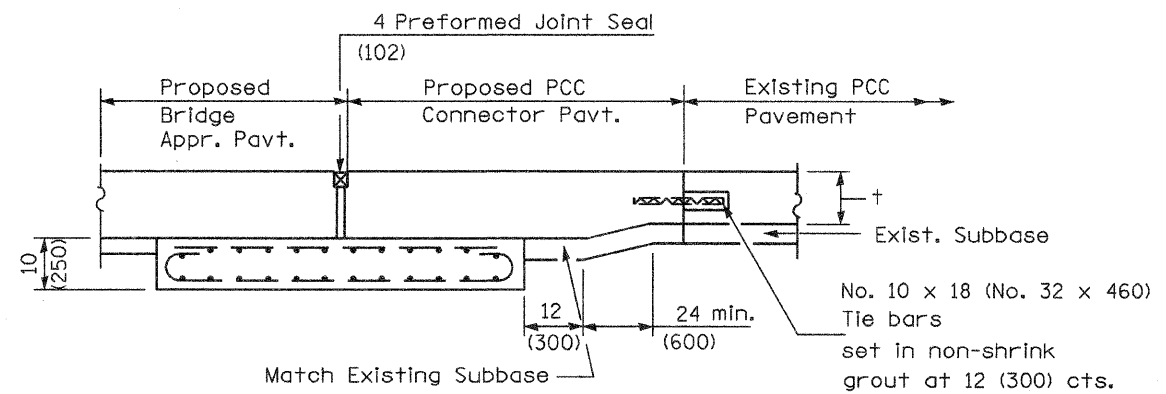
BRIDGE APPROACH PAVEMENT

(Sheet 1 of 4)

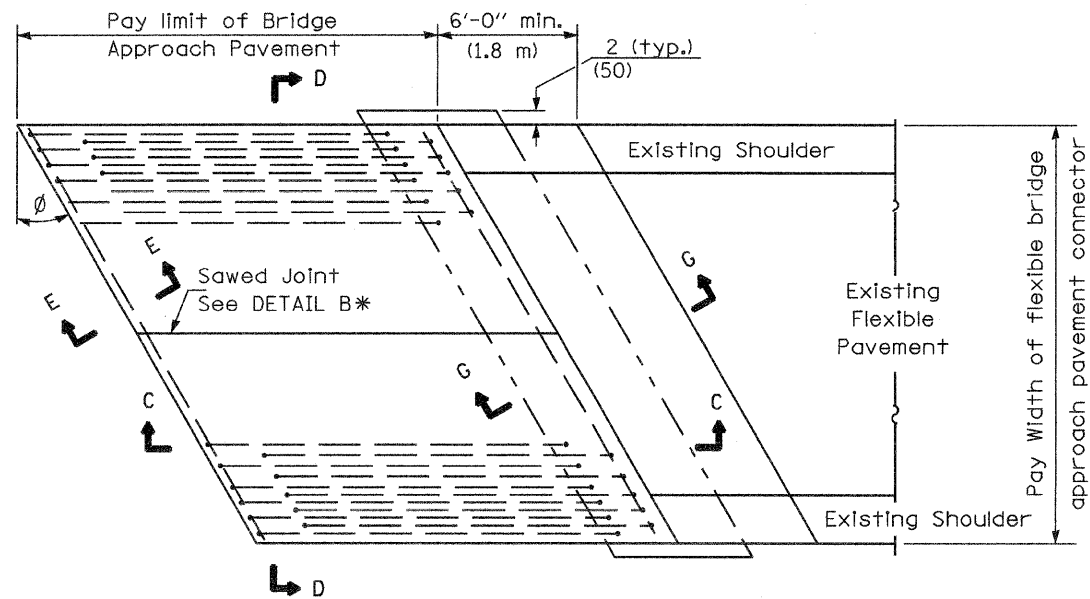
EXISTING CONSTRUCTION



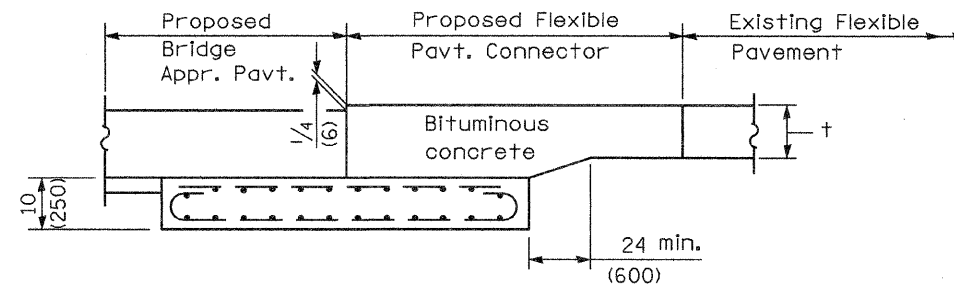
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

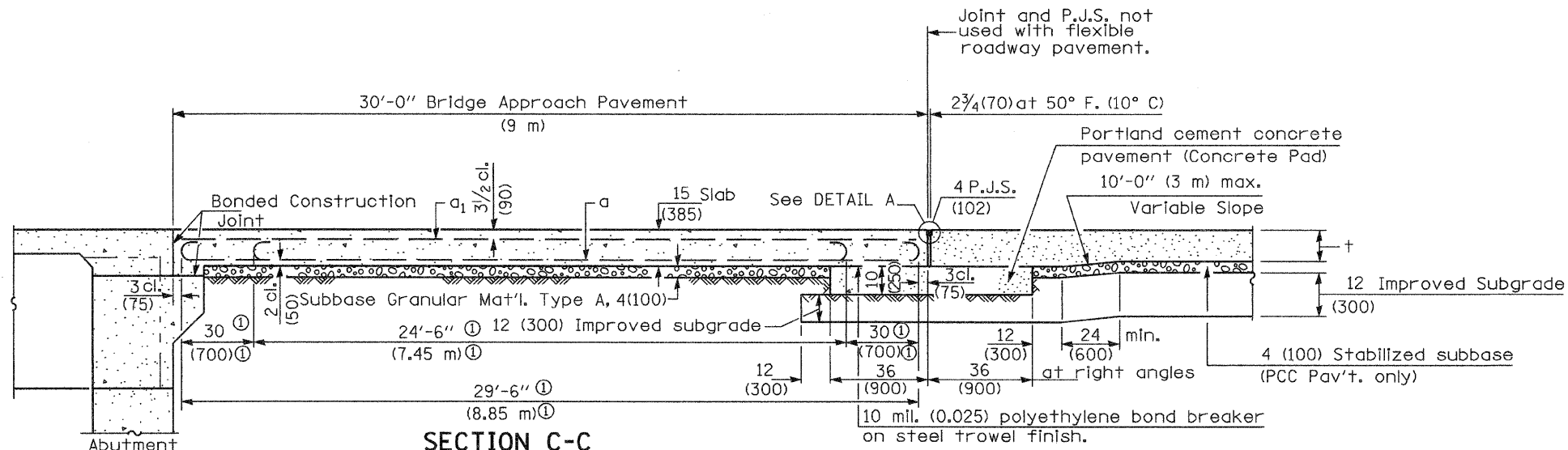


SECTION G-G - FLEXIBLE PAVEMENT

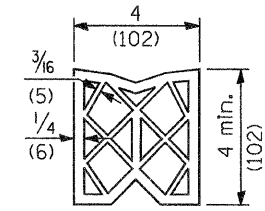
Illinois Department of Transportation
 APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED January 1, 2008
Ken E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

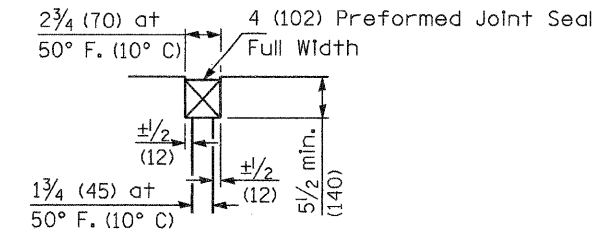
(Sheet 2 of 4)



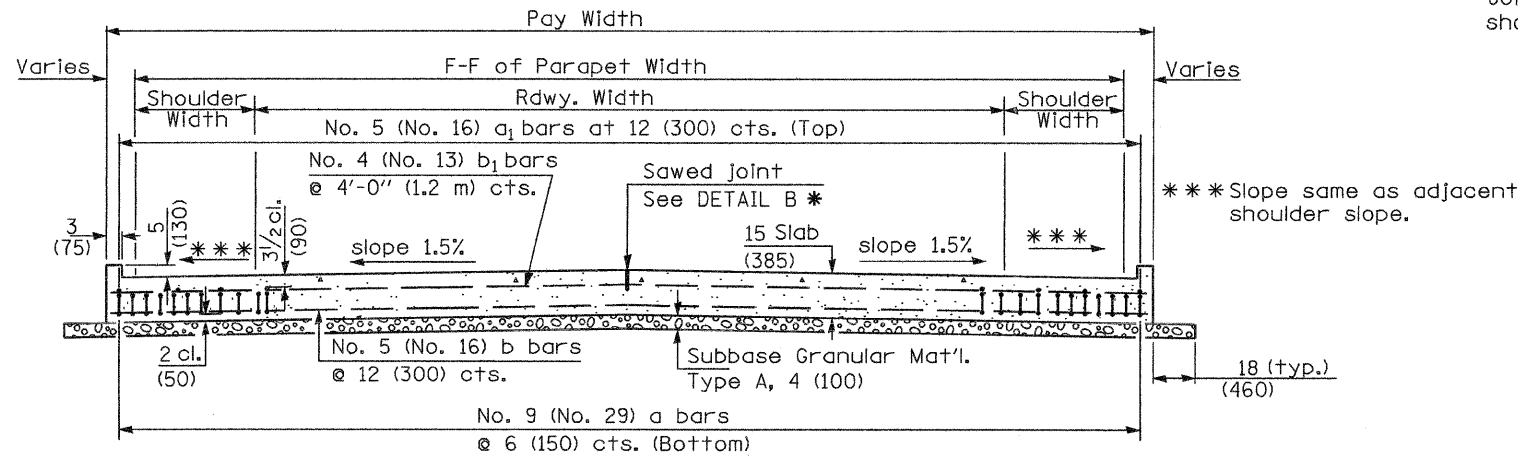
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



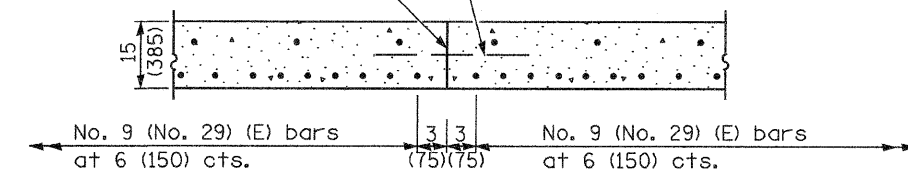
DETAIL A



SECTION D-D

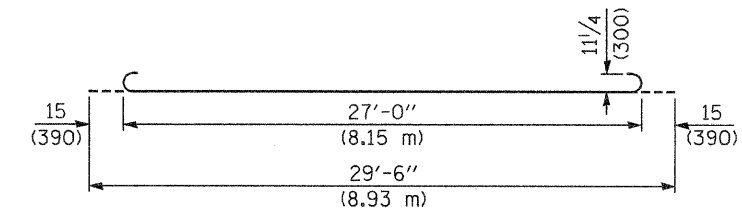
(See Plan for Dimensions not shown)

Longitudinal Construction Joint in accordance with details shown on Standard 420001.

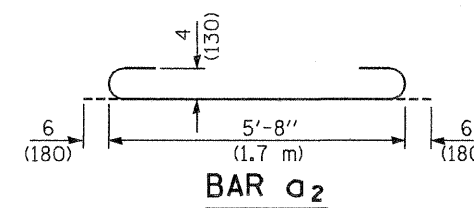


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

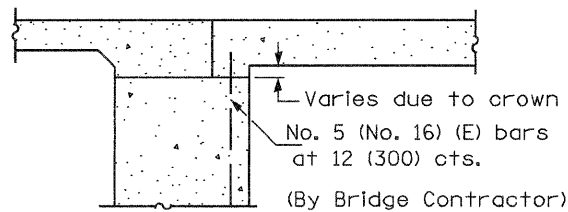
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



BAR a

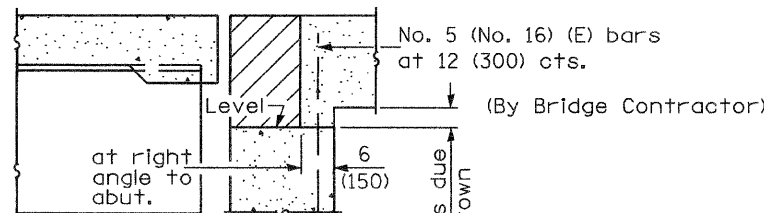


BAR a2



SECTION E-E

(Integral Abutments)



SECTION E-E

(Jointed Abutments)

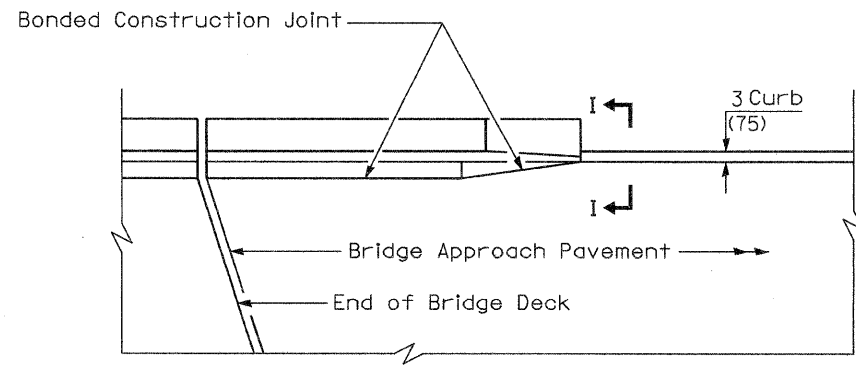
DESIGN STRESSES

$f_y = 60,000$ p.s.i. (400 MPa)
 $f'_c = 3,500$ p.s.i. (24 MPa)
 $n = 8.5$

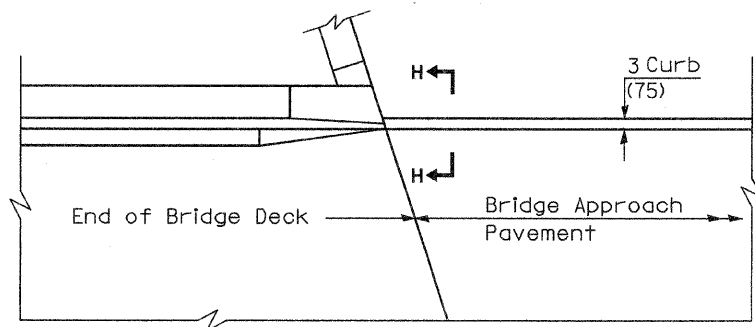
BRIDGE APPROACH PAVEMENT

(Sheet 3 of 4)

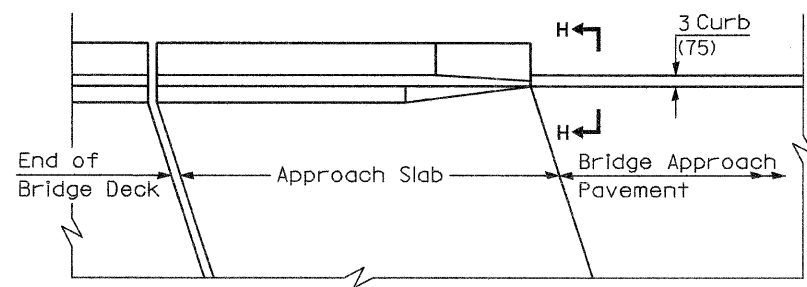
Illinois Department of Transportation
 APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED January 1, 2008
Eric E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT



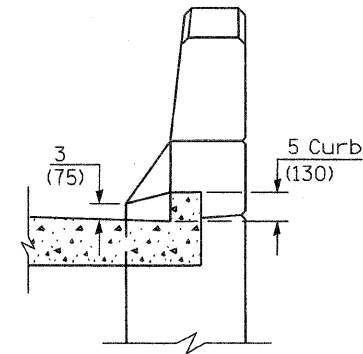
**PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT**



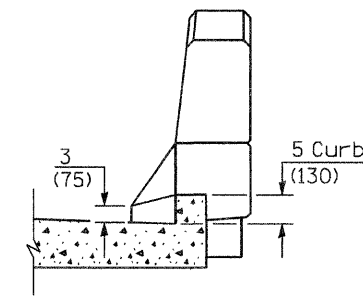
**PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT**



**PARAPET TO CURB TRANSITION
VAULTED ABUTMENT**



SECTION I - I



SECTION H - H

Illinois Department of Transportation
 APPROVED January 1, 2008
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED January 1, 2008
W. E. Han
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

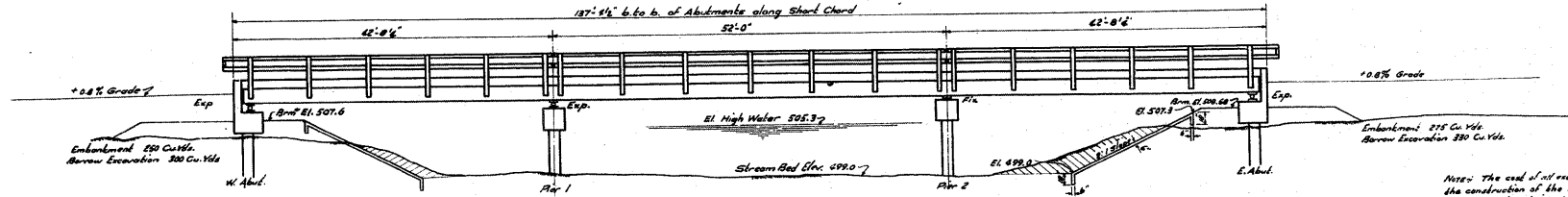
BRIDGE APPROACH PAVEMENT

(Sheet 4 of 4)

234' New Structure in Road at Sta. 676+00
 of Sta. 676+00 to Sta. 676+27
 No Existing Structure

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

SECTION	COUNTY	SHEET	SHEET NO.
75.3	Calhoun	57	58
SHEETS			

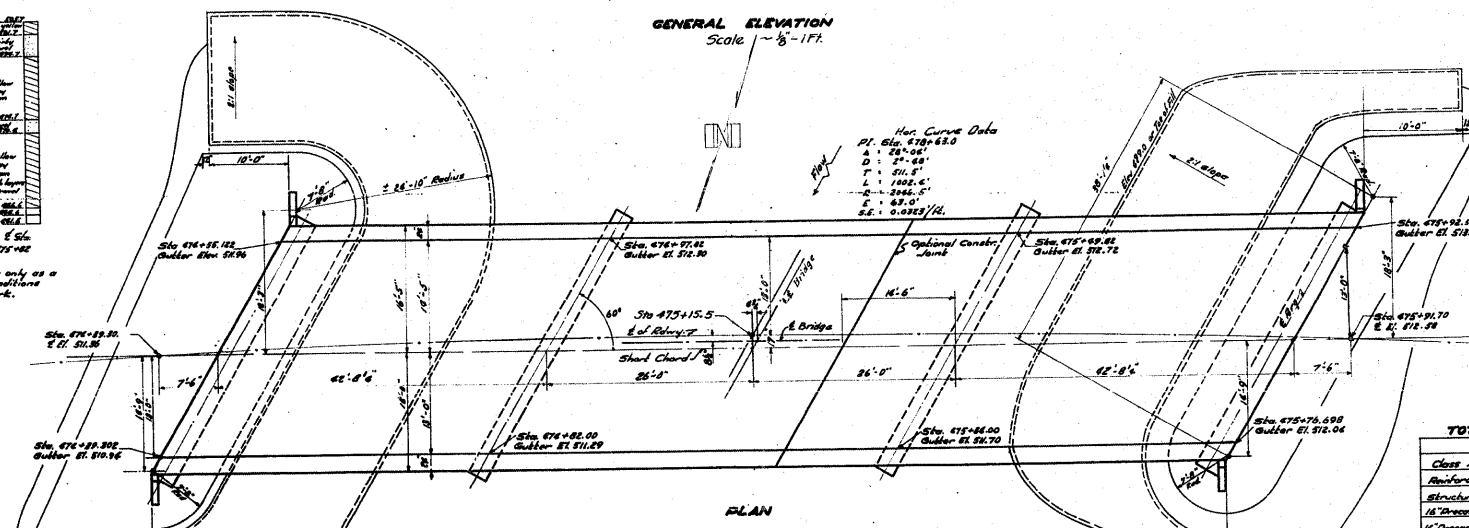


Note: The cost of excavation necessary for the construction of the slope walls to the required elevation shall be included in the price for slope walls.

BORING DATA

Station	Depth	Soil Description
Sta. 676+00	0'-0"	Gravel
Sta. 676+00	0'-6"	Yellow clay with traces of gravel
Sta. 676+00	1'-0"	Yellow clay with traces of gravel
Sta. 676+00	1'-6"	Yellow clay with traces of gravel
Sta. 676+00	2'-0"	Yellow clay with traces of gravel
Sta. 676+00	2'-6"	Yellow clay with traces of gravel
Sta. 676+00	3'-0"	Yellow clay with traces of gravel
Sta. 676+00	3'-6"	Yellow clay with traces of gravel
Sta. 676+00	4'-0"	Yellow clay with traces of gravel
Sta. 676+00	4'-6"	Yellow clay with traces of gravel
Sta. 676+00	5'-0"	Yellow clay with traces of gravel
Sta. 676+00	5'-6"	Yellow clay with traces of gravel
Sta. 676+00	6'-0"	Yellow clay with traces of gravel
Sta. 676+00	6'-6"	Yellow clay with traces of gravel
Sta. 676+00	7'-0"	Yellow clay with traces of gravel
Sta. 676+00	7'-6"	Yellow clay with traces of gravel
Sta. 676+00	8'-0"	Yellow clay with traces of gravel
Sta. 676+00	8'-6"	Yellow clay with traces of gravel
Sta. 676+00	9'-0"	Yellow clay with traces of gravel
Sta. 676+00	9'-6"	Yellow clay with traces of gravel
Sta. 676+00	10'-0"	Yellow clay with traces of gravel
Sta. 676+00	10'-6"	Yellow clay with traces of gravel
Sta. 676+00	11'-0"	Yellow clay with traces of gravel
Sta. 676+00	11'-6"	Yellow clay with traces of gravel
Sta. 676+00	12'-0"	Yellow clay with traces of gravel
Sta. 676+00	12'-6"	Yellow clay with traces of gravel
Sta. 676+00	13'-0"	Yellow clay with traces of gravel
Sta. 676+00	13'-6"	Yellow clay with traces of gravel
Sta. 676+00	14'-0"	Yellow clay with traces of gravel
Sta. 676+00	14'-6"	Yellow clay with traces of gravel
Sta. 676+00	15'-0"	Yellow clay with traces of gravel
Sta. 676+00	15'-6"	Yellow clay with traces of gravel
Sta. 676+00	16'-0"	Yellow clay with traces of gravel
Sta. 676+00	16'-6"	Yellow clay with traces of gravel
Sta. 676+00	17'-0"	Yellow clay with traces of gravel
Sta. 676+00	17'-6"	Yellow clay with traces of gravel
Sta. 676+00	18'-0"	Yellow clay with traces of gravel
Sta. 676+00	18'-6"	Yellow clay with traces of gravel
Sta. 676+00	19'-0"	Yellow clay with traces of gravel
Sta. 676+00	19'-6"	Yellow clay with traces of gravel
Sta. 676+00	20'-0"	Yellow clay with traces of gravel
Sta. 676+00	20'-6"	Yellow clay with traces of gravel
Sta. 676+00	21'-0"	Yellow clay with traces of gravel
Sta. 676+00	21'-6"	Yellow clay with traces of gravel
Sta. 676+00	22'-0"	Yellow clay with traces of gravel
Sta. 676+00	22'-6"	Yellow clay with traces of gravel
Sta. 676+00	23'-0"	Yellow clay with traces of gravel
Sta. 676+00	23'-6"	Yellow clay with traces of gravel
Sta. 676+00	24'-0"	Yellow clay with traces of gravel
Sta. 676+00	24'-6"	Yellow clay with traces of gravel
Sta. 676+00	25'-0"	Yellow clay with traces of gravel
Sta. 676+00	25'-6"	Yellow clay with traces of gravel
Sta. 676+00	26'-0"	Yellow clay with traces of gravel
Sta. 676+00	26'-6"	Yellow clay with traces of gravel
Sta. 676+00	27'-0"	Yellow clay with traces of gravel
Sta. 676+00	27'-6"	Yellow clay with traces of gravel
Sta. 676+00	28'-0"	Yellow clay with traces of gravel
Sta. 676+00	28'-6"	Yellow clay with traces of gravel
Sta. 676+00	29'-0"	Yellow clay with traces of gravel
Sta. 676+00	29'-6"	Yellow clay with traces of gravel
Sta. 676+00	30'-0"	Yellow clay with traces of gravel
Sta. 676+00	30'-6"	Yellow clay with traces of gravel
Sta. 676+00	31'-0"	Yellow clay with traces of gravel
Sta. 676+00	31'-6"	Yellow clay with traces of gravel
Sta. 676+00	32'-0"	Yellow clay with traces of gravel
Sta. 676+00	32'-6"	Yellow clay with traces of gravel
Sta. 676+00	33'-0"	Yellow clay with traces of gravel
Sta. 676+00	33'-6"	Yellow clay with traces of gravel
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Sta. 676+00	34'-6"	Yellow clay with traces of gravel
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Sta. 676+00	35'-6"	Yellow clay with traces of gravel
Sta. 676+00	36'-0"	Yellow clay with traces of gravel
Sta. 676+00	36'-6"	Yellow clay with traces of gravel
Sta. 676+00	37'-0"	Yellow clay with traces of gravel
Sta. 676+00	37'-6"	Yellow clay with traces of gravel
Sta. 676+00	38'-0"	Yellow clay with traces of gravel
Sta. 676+00	38'-6"	Yellow clay with traces of gravel
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Sta. 676+00	39'-6"	Yellow clay with traces of gravel
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Sta. 676+00	40'-6"	Yellow clay with traces of gravel
Sta. 676+00	41'-0"	Yellow clay with traces of gravel
Sta. 676+00	41'-6"	Yellow clay with traces of gravel
Sta. 676+00	42'-0"	Yellow clay with traces of gravel
Sta. 676+00	42'-6"	Yellow clay with traces of gravel
Sta. 676+00	43'-0"	Yellow clay with traces of gravel
Sta. 676+00	43'-6"	Yellow clay with traces of gravel
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Sta. 676+00	69'-0"	Yellow clay with traces of gravel
Sta. 676+00	69'-6"	Yellow clay with traces of gravel
Sta. 676+00	70'-0"	Yellow clay with traces of gravel
Sta. 676+00	70'-6"	Yellow clay with traces of gravel
Sta. 676+00	71'-0"	Yellow clay with traces of gravel
Sta. 676+00	71'-6"	Yellow clay with traces of gravel
Sta. 676+00	72'-0"	Yellow clay with traces of gravel
Sta. 676+00	72'-6"	Yellow clay with traces of gravel
Sta. 676+00	73'-0"	Yellow clay with traces of gravel
Sta. 676+00	73'-6"	Yellow clay with traces of gravel
Sta. 676+00	74'-0"	Yellow clay with traces of gravel
Sta. 676+00	74'-6"	Yellow clay with traces of gravel
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Sta. 676+00	75'-6"	Yellow clay with traces of gravel
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Sta. 676+00	78'-6"	Yellow clay with traces of gravel
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Sta. 676+00	79'-6"	Yellow clay with traces of gravel
Sta. 676+00	80'-0"	Yellow clay with traces of gravel
Sta. 676+00	80'-6"	Yellow clay with traces of gravel
Sta. 676+00	81'-0"	Yellow clay with traces of gravel
Sta. 676+00	81'-6"	Yellow clay with traces of gravel
Sta. 676+00	82'-0"	Yellow clay with traces of gravel
Sta. 676+00	82'-6"	Yellow clay with traces of gravel
Sta. 676+00	83'-0"	Yellow clay with traces of gravel
Sta. 676+00	83'-6"	Yellow clay with traces of gravel
Sta. 676+00	84'-0"	Yellow clay with traces of gravel
Sta. 676+00	84'-6"	Yellow clay with traces of gravel
Sta. 676+00	85'-0"	Yellow clay with traces of gravel
Sta. 676+00	85'-6"	Yellow clay with traces of gravel
Sta. 676+00	86'-0"	Yellow clay with traces of gravel
Sta. 676+00	86'-6"	Yellow clay with traces of gravel
Sta. 676+00	87'-0"	Yellow clay with traces of gravel
Sta. 676+00	87'-6"	Yellow clay with traces of gravel
Sta. 676+00	88'-0"	Yellow clay with traces of gravel
Sta. 676+00	88'-6"	Yellow clay with traces of gravel
Sta. 676+00	89'-0"	Yellow clay with traces of gravel
Sta. 676+00	89'-6"	Yellow clay with traces of gravel
Sta. 676+00	90'-0"	Yellow clay with traces of gravel
Sta. 676+00	90'-6"	Yellow clay with traces of gravel
Sta. 676+00	91'-0"	Yellow clay with traces of gravel
Sta. 676+00	91'-6"	Yellow clay with traces of gravel
Sta. 676+00	92'-0"	Yellow clay with traces of gravel
Sta. 676+00	92'-6"	Yellow clay with traces of gravel
Sta. 676+00	93'-0"	Yellow clay with traces of gravel
Sta. 676+00	93'-6"	Yellow clay with traces of gravel
Sta. 676+00	94'-0"	Yellow clay with traces of gravel
Sta. 676+00	94'-6"	Yellow clay with traces of gravel
Sta. 676+00	95'-0"	Yellow clay with traces of gravel
Sta. 676+00	95'-6"	Yellow clay with traces of gravel
Sta. 676+00	96'-0"	Yellow clay with traces of gravel
Sta. 676+00	96'-6"	Yellow clay with traces of gravel
Sta. 676+00	97'-0"	Yellow clay with traces of gravel
Sta. 676+00	97'-6"	Yellow clay with traces of gravel
Sta. 676+00	98'-0"	Yellow clay with traces of gravel
Sta. 676+00	98'-6"	Yellow clay with traces of gravel
Sta. 676+00	99'-0"	Yellow clay with traces of gravel
Sta. 676+00	99'-6"	Yellow clay with traces of gravel
Sta. 676+00	100'-0"	Yellow clay with traces of gravel
Sta. 676+00	100'-6"	Yellow clay with traces of gravel

Boring data are shown on the plans only as a guide to workers in estimating soil conditions which may be encountered in the work.



GENERAL ELEVATION
 Scale 1/8" = 1'-0"

PLAN

TOTAL - BILL OF MATERIAL

Item	Super	Sub	Total
Class X Concrete	111.6	58.9	170.5
Reinforcement Bars	13180	8840	22020
Structural Steel	146	13860	14006
16" Precast Conc. Pipe (12) (Lx. H.)	620	620	1240
16" Precast Conc. Pipe (12) (Lx. H.)	516	516	1032
Precast Conc. Trestle Piers	2	2	4
Slope Wall	59.76	1	60.76
Mass Pile	1	1	2
Borrow Excavation	620	620	1240

GENERAL NOTES

Class X Concrete shall be used here and there. Concrete flow shall be finished in accordance with Art. 61.3(a) of the Standard Specifications and shall be poured in one continuous operation before the construction joints shown on the plans. No additional construction joints will be allowed without written permission of the Engineer.

Handrail shall be subjected to true alignment after the deck and curb have been poured.

All connections shall be riveted except as noted. Rivets shall be 3/4" and bolts 1/2" unless noted.

All holes for piping shall be punched 1/4" beyond to proper clearance. 1/4" in width with 1/2" diameter rounded ends in proper position, with or without, depending on place.

Labels provided for slope inspection.

All water bearing pipes, and pipes and water table shall be furnished, painted and set in accordance with Art. 29.8(d) of the Standard Specifications, and are included for payment as Structural Steel. Estimated Weight 6510 lbs.

Structural Steel shall receive one coat of red lead paint after inspection, and two full coats of aluminum paint. All paint to be furnished by Contractor, as directed by the Engineer before setting the remainder of piles.

Contractor shall drive two full piles as necessary to conform to the design. After inspection, the piles shall be constructed if so directed by the Engineer.

Embedment to be constructed from Borrow Excavation in accordance with Sec. 11 of the Spec. Spec. Borrow pit to be furnished by the State. See Sta. 676+43 to 676+45. Anchor bolts to be set before installing diaphragms over Abutts. of Piers.

COMPUTED	DESIGNED	REVISIONS
CHECKED	DRAWN	REVISIONS
CHECKED	CHECKED	REVISIONS
CHECKED	ASSEMBLED	REVISIONS
SPECIAL	CHECKED	REVISIONS

Waterway Information
 Drainage Area 3500 A
 Character Heavy Clay, wooded, cultivated
 Opening Required for 10' 10" x 10" 480"

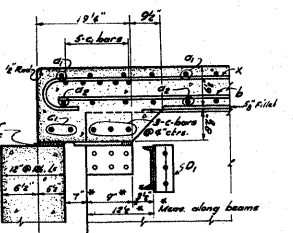
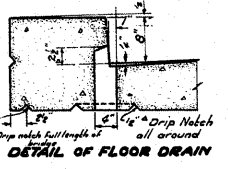
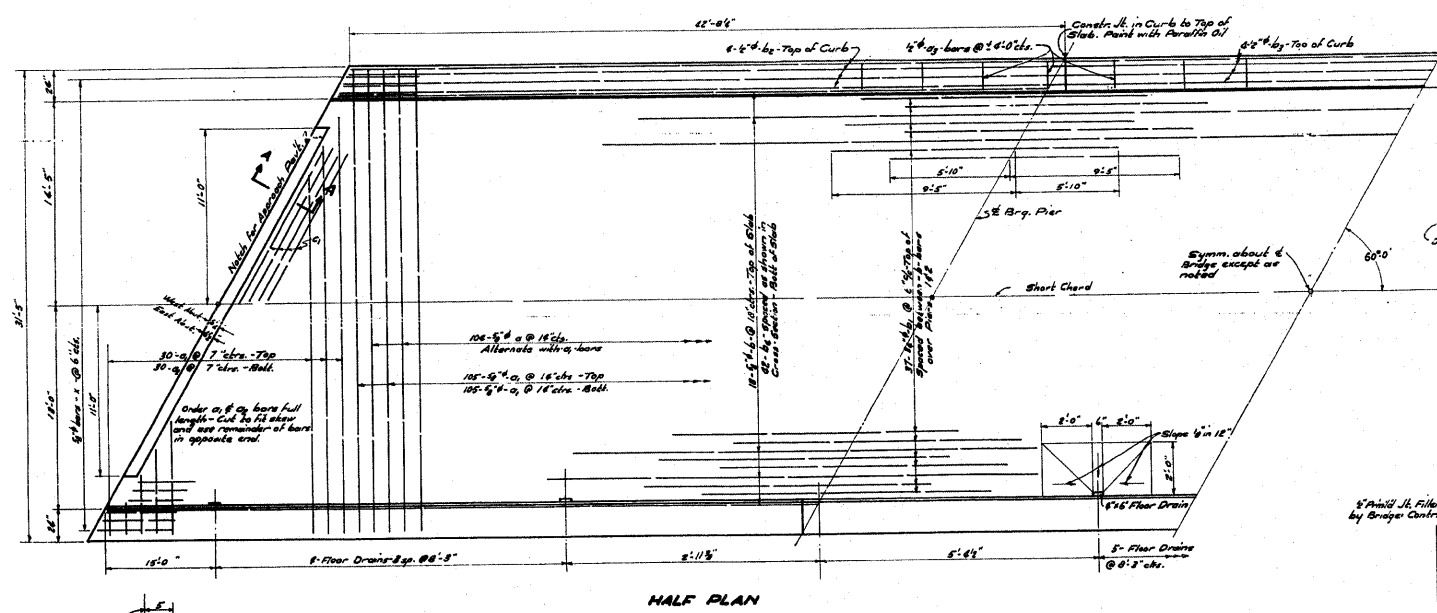
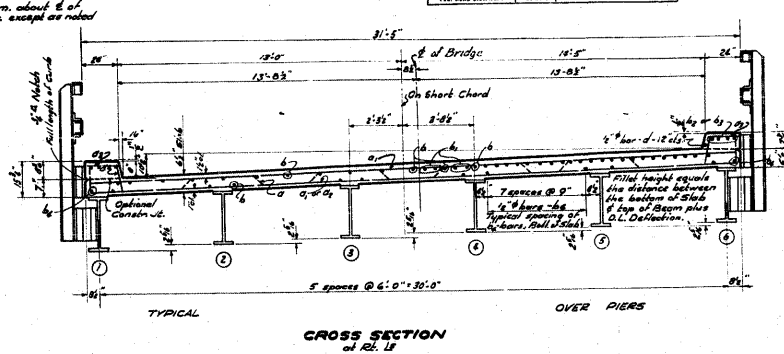
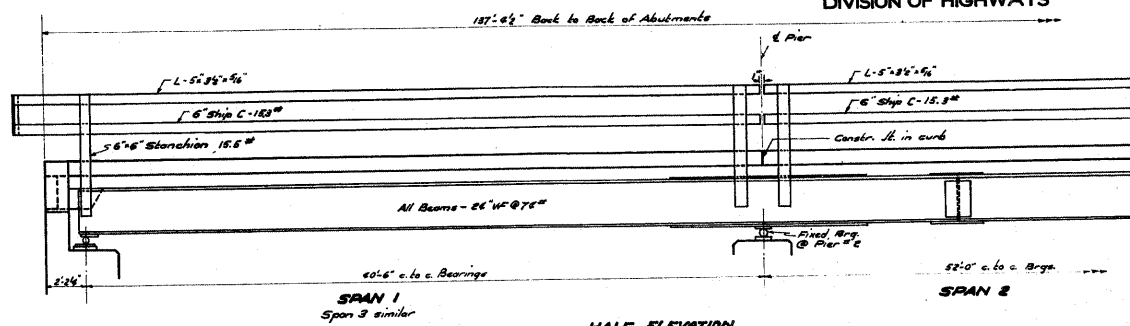
Stresses
 14,000 Structural
 20,000 Reinforcement
 E 1200
 n 10

PROJECT 576 (1)
 FAS ROUTE 753 SEC 5A
 FOX CREEK
 CALHOUN COUNTY
 STA 675+15.5

FOR INFORMATION ONLY

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

SECTION	COUNTY	SHEET NO.	SHEET NO.	SHEET NO.
753	Calhoun	57	55	4 SHEETS



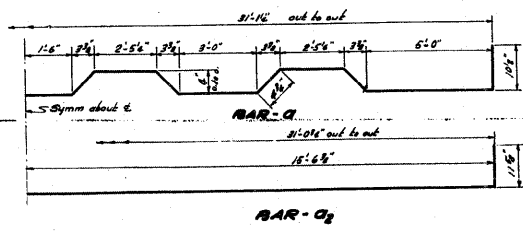
BILL OF MATERIAL
SUPER STRUCTURE

Bar	No.	Size	Length
a	104	5/8"	33'-0"
a1	280	5/8"	31'-0"
a2	30	5/8"	33'-0"
a3	60	5/8"	1'-9"
c	30	5/8"	6'-0"
c1	19	5/8"	38'-0"
b	90	5/8"	29'-0"
b1	74	5/8"	15'-3"
b2	32	5/8"	22'-6"
b3	16	5/8"	27'-0"
b4	20	5/8"	29'-0"
d	276	5/8"	1'-8"
x	126	5/8"	5'-0"

Class X Concrete Cu. Yds. 101.4
Reinforcement Bars Lbs. 23160
* Structural Steel Lbs. 93860
Name Plates Each one

* Weight of Rollers, Bearings, Axle, Load Bolts, and Anchor Bolts included as Structural Steel. Est. Weight 6510 lbs.

STANDARD	COMPUTED	EXAMINED
CHECKED	7/1/00	19/00
DRAWN	1/1/00	1/1/00
CHECKED	1/1/00	1/1/00
SPECIAL	ASSEMBLED	APPROVED
CHECKED		

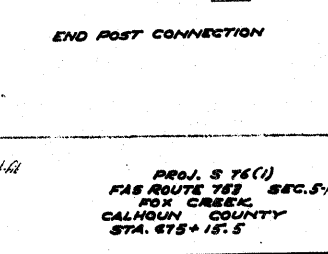
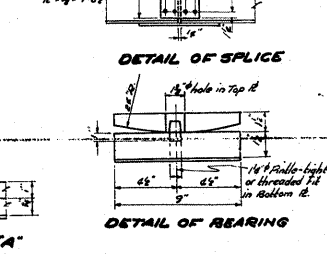
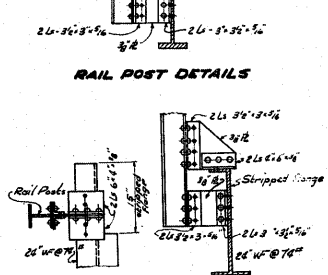
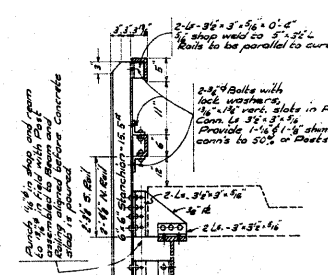
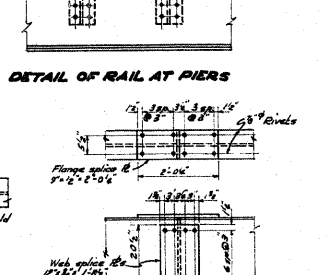
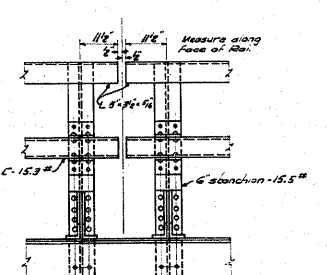
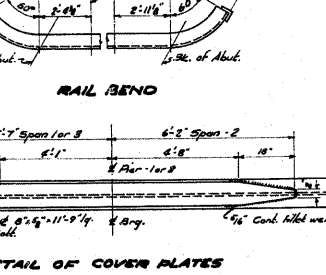
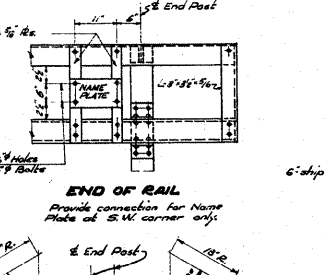
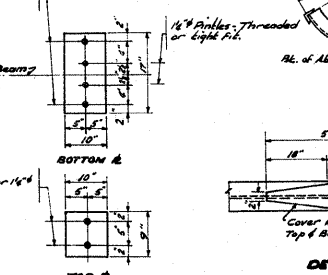
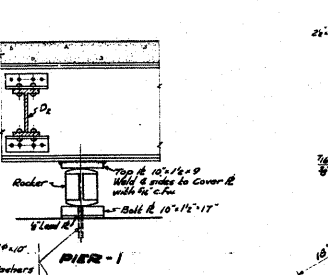
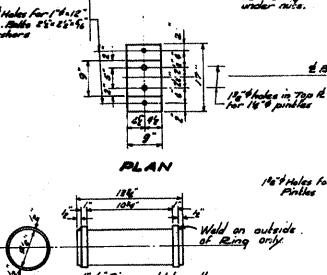
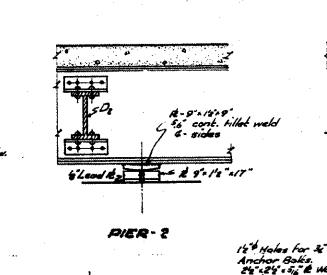
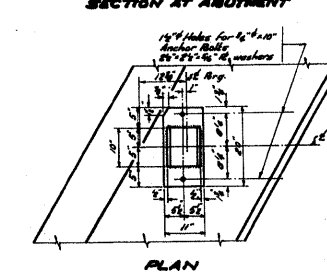
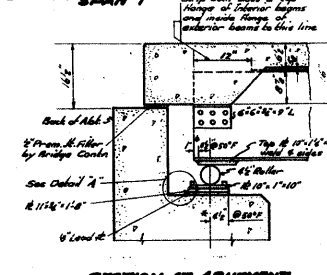
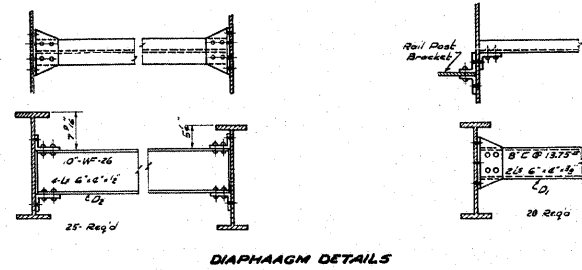
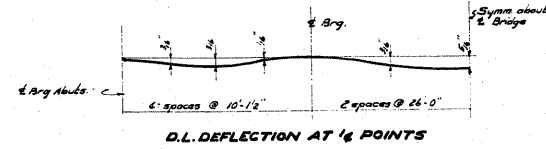
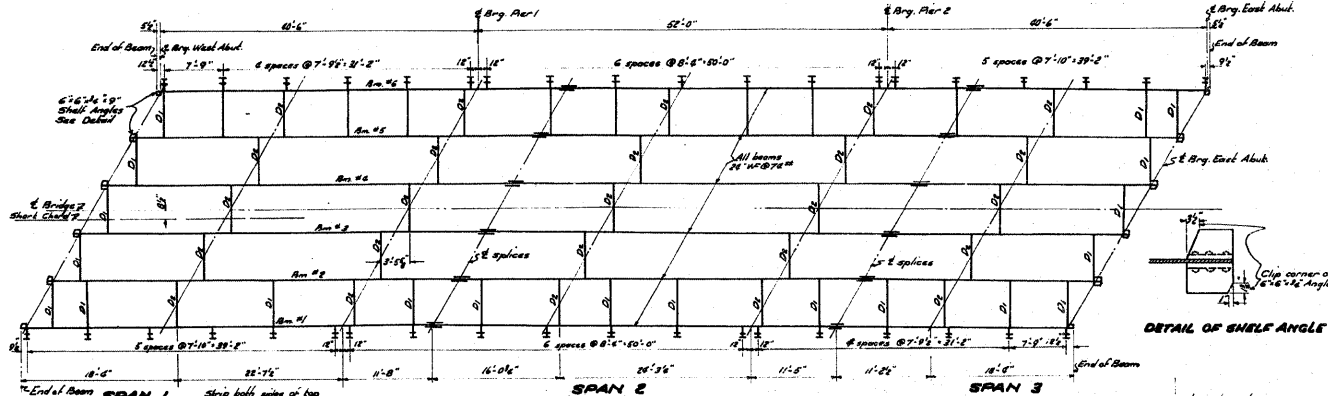


PROJ. 5-76(1)
FAS ROUTE 753 SEC 5A
FOX CREEK
CALHOUN COUNTY
STA. 675+15.5

FOR INFORMATION ONLY

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

SECTION	COUNTY	SHEET	SHEET NO.
5A	Calhoun	51	51



COMPUTED	DESIGNED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	
ASSEMBLED	
SPECIAL	

NOTE TO ERECTOR:
Increase each dimension by the amount shown.
If dimension is not shown on this page, it is given on page 504F.
Decrease each by the same amount if dimension is under 50%.

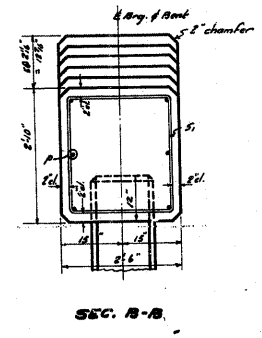
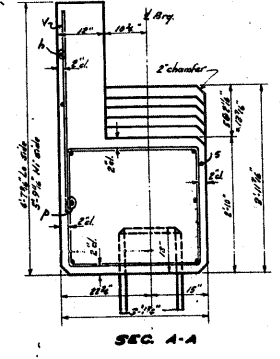
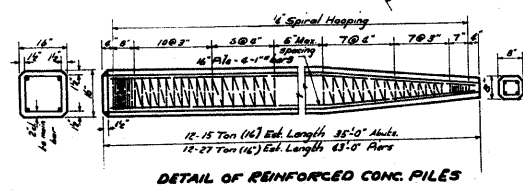
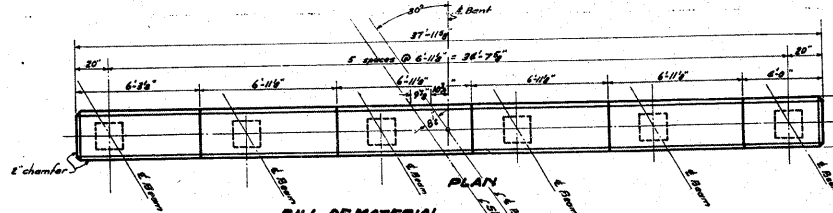
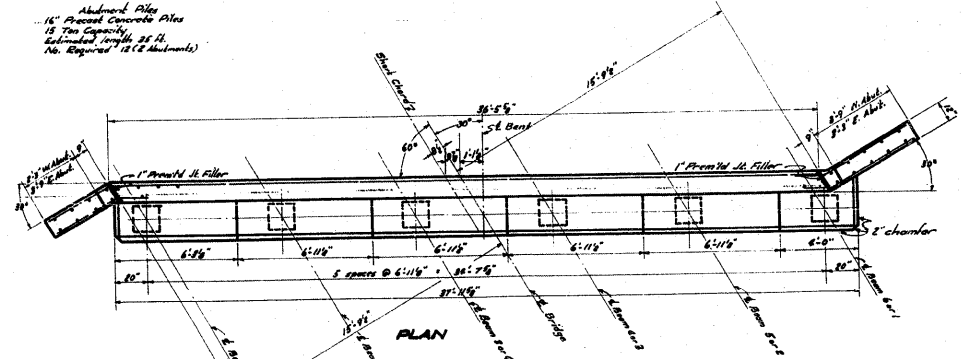
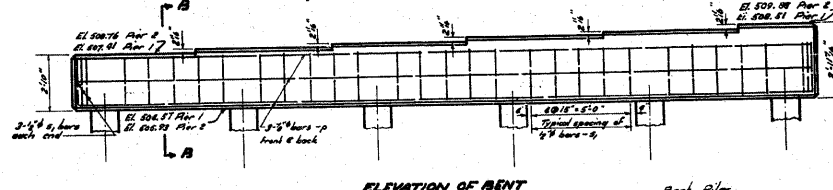
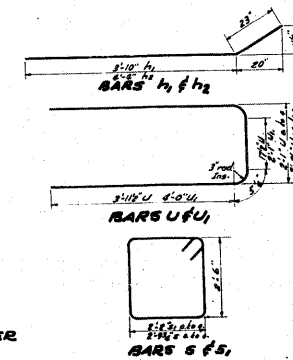
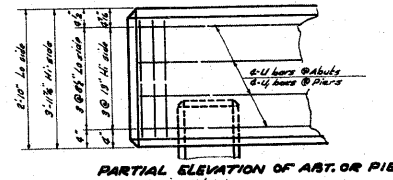
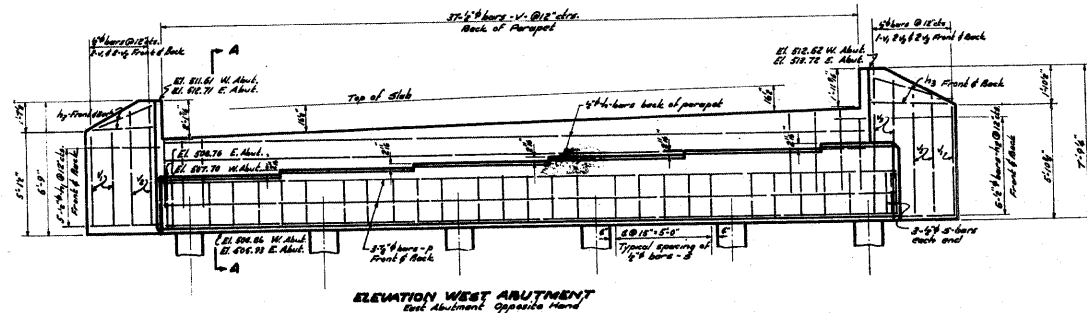
PROJ. 5 75(1)
FAS ROUTE 783 SEC. 5A
FOX CREEK
CALHOUN COUNTY
STA. 675+15.5

FOR INFORMATION ONLY

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PLOT SCALE = 50.0000' / IN.	DRAWN	REVISOR	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 76886		ILLINOIS FED. AID PROJECT
PLOT DATE = 9/11/2008	CHECKED	REVISOR								
	ASSEMBLED	REVISOR								

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5A	Calhoun	57	57



BILL OF MATERIAL
ABUTMENTS & BENTS

Bar	No.	Size	Length	Shape
H	8	3/4"	35'-2"	—
H1	80	3/4"	6'-2"	—
H2	24	3/4"	6'-2"	—
H3	16	3/4"	5'-9"	—
H4	24	3/4"	37'-4"	—
A	60	3/4"	11'-6"	□
E	60	3/4"	10'-5"	□
U	16	3/4"	10'-5"	□
U1	16	3/4"	11'-0"	□
V	76	3/4"	3'-6"	—
V1	16	3/4"	5'-0"	—
V2	16	3/4"	6'-0"	—
V3	8	3/4"	7'-0"	—

Class of Concrete: C-2000, S-20, 2
Reinforcement Bars: A-36, S-40
Precast Conc. Piles (24' x 24') C-20, S-20
Precast Conc. Piles (24' x 24') C-20, S-20
Precast Conc. Pier Pile: Cast in place

PROJ. S 76(1)
FAS ROUTE 753 SEC. 5-A
FOX CREEK
CALHOUN COUNTY
STA. 678+15.5

COMPUTED	W. J. P.	EXAMINED	W. J. P.
CHECKED	M. G. C.	PASSED	W. J. P.
DRAWN	W. J. P.	APPROVED	W. J. P.
CHECKED	W. J. P.		
ASSEMBLED			
SPECIAL CHECKED			

FOR INFORMATION ONLY

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USER NAME = owinbj
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 9/11/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

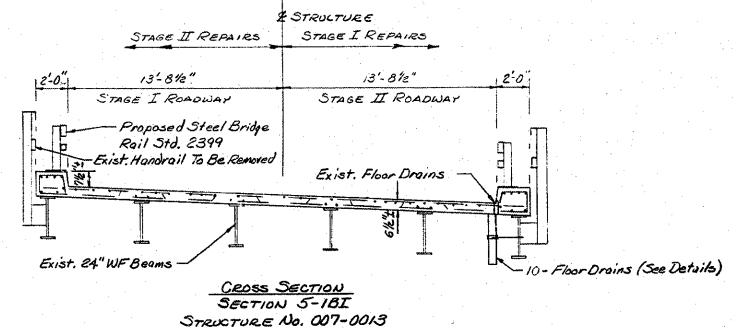
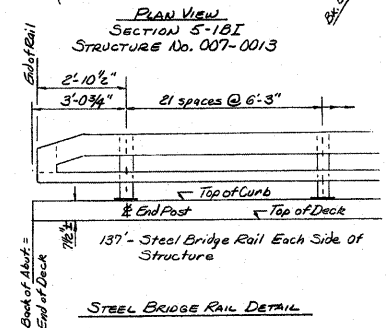
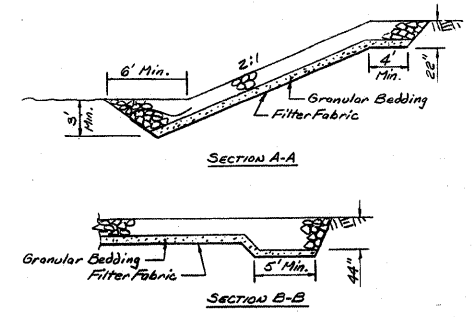
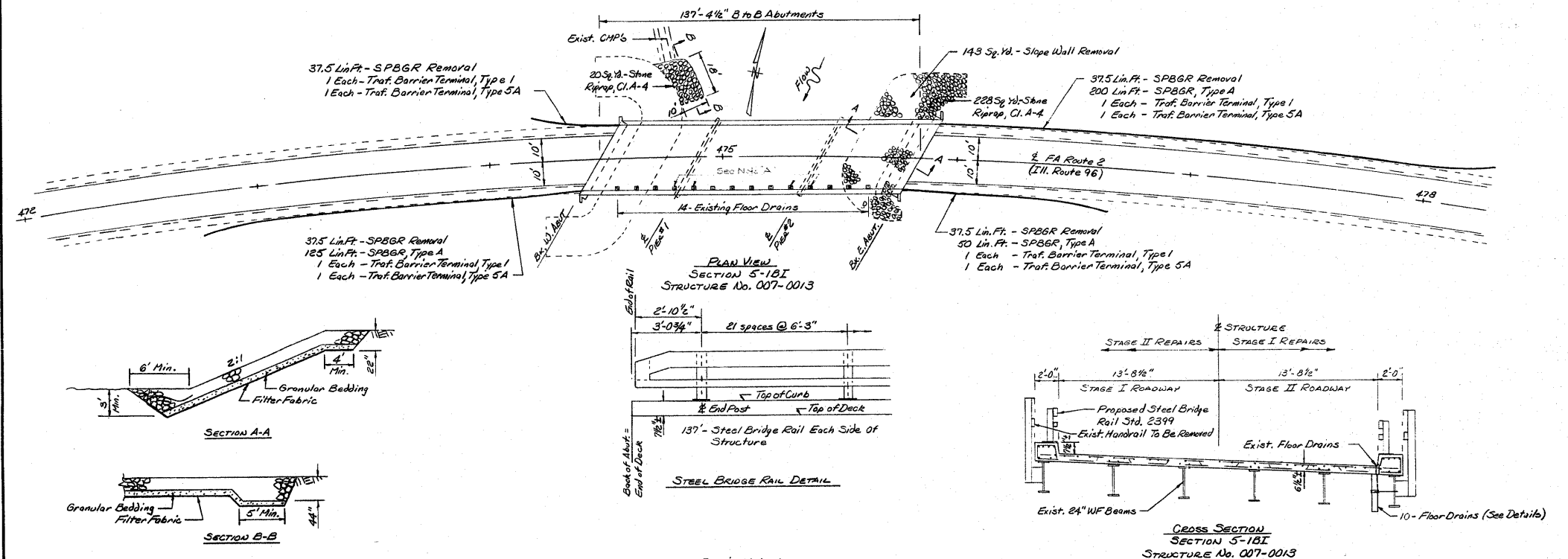
EXISTING STRUCTURE PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	5A-BR	CALHOUN	60	49
CONTRACT NO. 76886				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

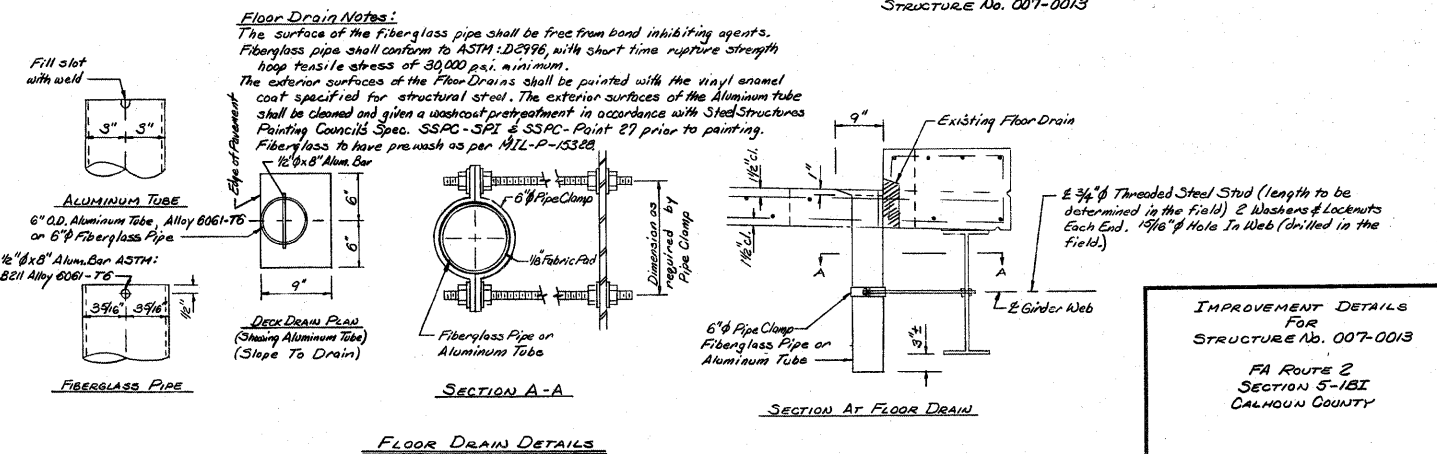
FA ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	5A-BR	Calhoun	25	23

NOTE A: Existing floor drains located within 0' of the substructure units shall be eliminated.



SCHEDULE OF QUANTITIES STRUCTURE NUMBER 007-0013

ITEM	QUANTITY
FLOOR DRAINS	10 EACH
ELASTOMERIC BEARING ASSEMBLY, TYPE 1	6 EACH
ELASTOMERIC BEARING ASSEMBLY, TYPE 2	6 EACH
CLASS X CONCRETE (SPECIAL)	11 CU. Yd.
HANDRAIL REMOVAL	282 LIN. FT.
STEEL BRIDGE RAIL	274 LIN. FT.
CLEANING AND PAINTING STEEL BRIDGE NO. 1	1 L. SURF.
RELOCATING NAME PLATES	1 EACH
STONE RIPRAP, CLASS A4	248 SQ. Yd.
SLOPE WALL REMOVAL	213 SQ. Yd.
STEEL PLATE BEAM GUARD RAIL, TYPE A	375 LIN. FT.
TRAFFIC BARRIER TERMINAL, TYPE 1	4 EACH
TRAFFIC BARRIER TERMINAL, TYPE 5A	4 EACH
STEEL PLATE BEAM GUARD RAIL REMOVAL	150 LIN. FT.
TRAFFIC CONTROL AND PROTECTION, STANDARD 2309	1 EACH
FURNISHING AND ERECTING STRUCTURAL STEEL	500 POUNDS

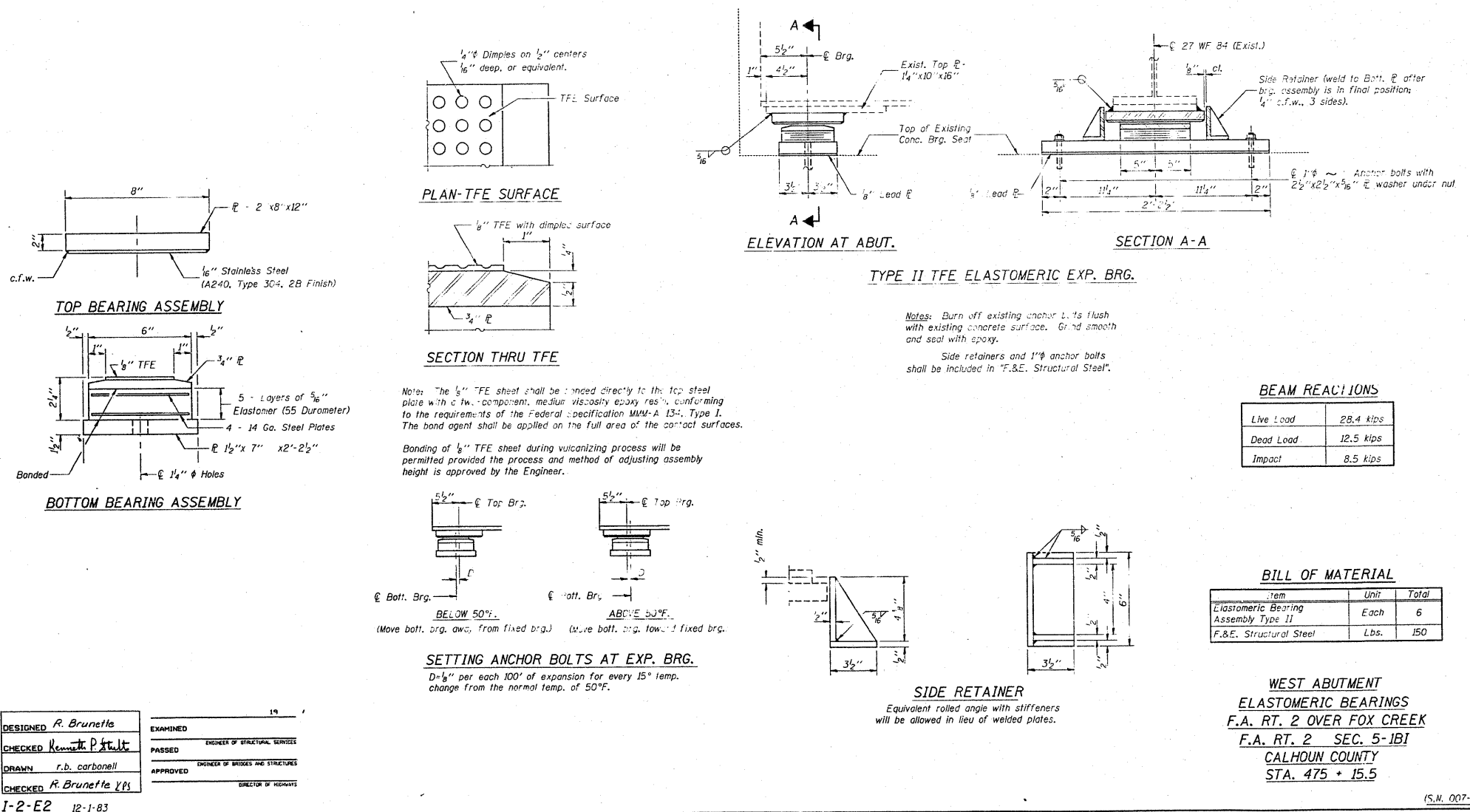


IMPROVEMENT DETAILS FOR STRUCTURE No. 007-0013
 FA ROUTE 2 SECTION 5-1B1 CALHOUN COUNTY

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	5A-BR	CALHOUN	25	24
SHEET NO. 24 25 SHEETS				



DESIGNED R. Brunette
CHECKED Kenneth P. Stult
DRAWN r.b. carbonell
CHECKED R. Brunette YPS

EXAMINED _____
PASSED _____
APPROVED _____
DIRECTOR OF HIGHWAYS

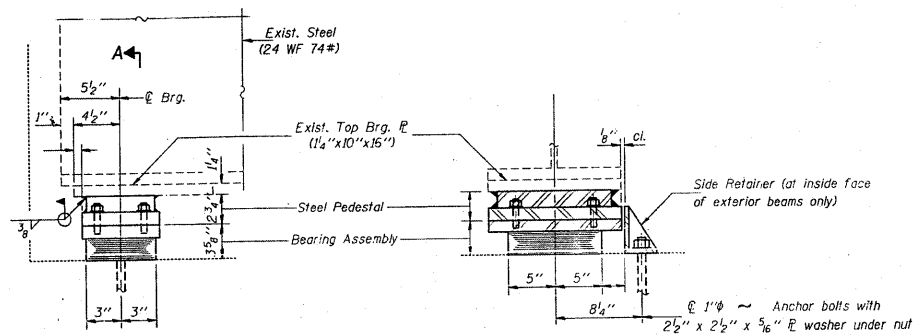
I-2-E2 12-1-83

FOR INFORMATION ONLY

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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 76886				
PLOT DATE = 9/11/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
304	5A-BR	CALHOUN	60	52
CONTRACT NO. 76886				

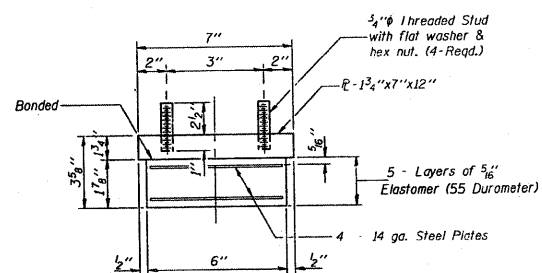


ELEVATION AT ABUT.

SECTION A-A

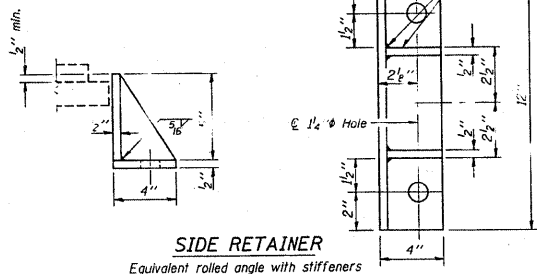
TYPE I ELASTOMERIC EXP. BRG.

Note: Burn off exist. anchor bolts flush with exist. concrete surface. Grind smooth and seal with epoxy.



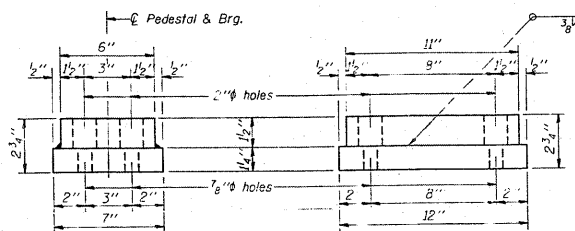
BEARING ASSEMBLY

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



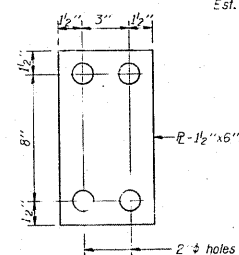
SIDE RETAINER

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

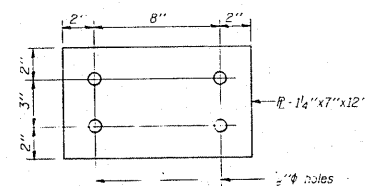


PEDESTAL ELEVATION

(No. Steel Pedestals Req'd. = 6)
Est. Wt. = 60 Lbs. (each)



PLAN - 1 1/2" PLATE



PLAN - 1 1/4" PLATE

Note: New Steel Pedestals, Side Retainers and 1" Anchor Bolts shall be paid for as "Furn. & Erect. Structural Steel".

BEAM REACTIONS

Live Load	28.4 kips
Dead Load	12.5 kips
Impact	8.5 kips

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Furnishing and Erecting Structural Steel	Lbs.	410

EAST ABUTMENT
ELASTOMERIC BRGS. & PEDESTAL DETAILS
F.A. RT. 2 OVER FOX CREEK
F.A. RT. 2 SEC. 5-1B1
CALHOUN COUNTY
STA. 475 + 15.5

(S.M. 007-001)

DESIGNED <i>R. Brunette</i>	EXAMINED
CHECKED <i>Monette P. Stutte</i>	PASSED
DRAWN <i>r. b. carbonell</i>	APPROVED
CHECKED <i>R. Brunette KM</i>	

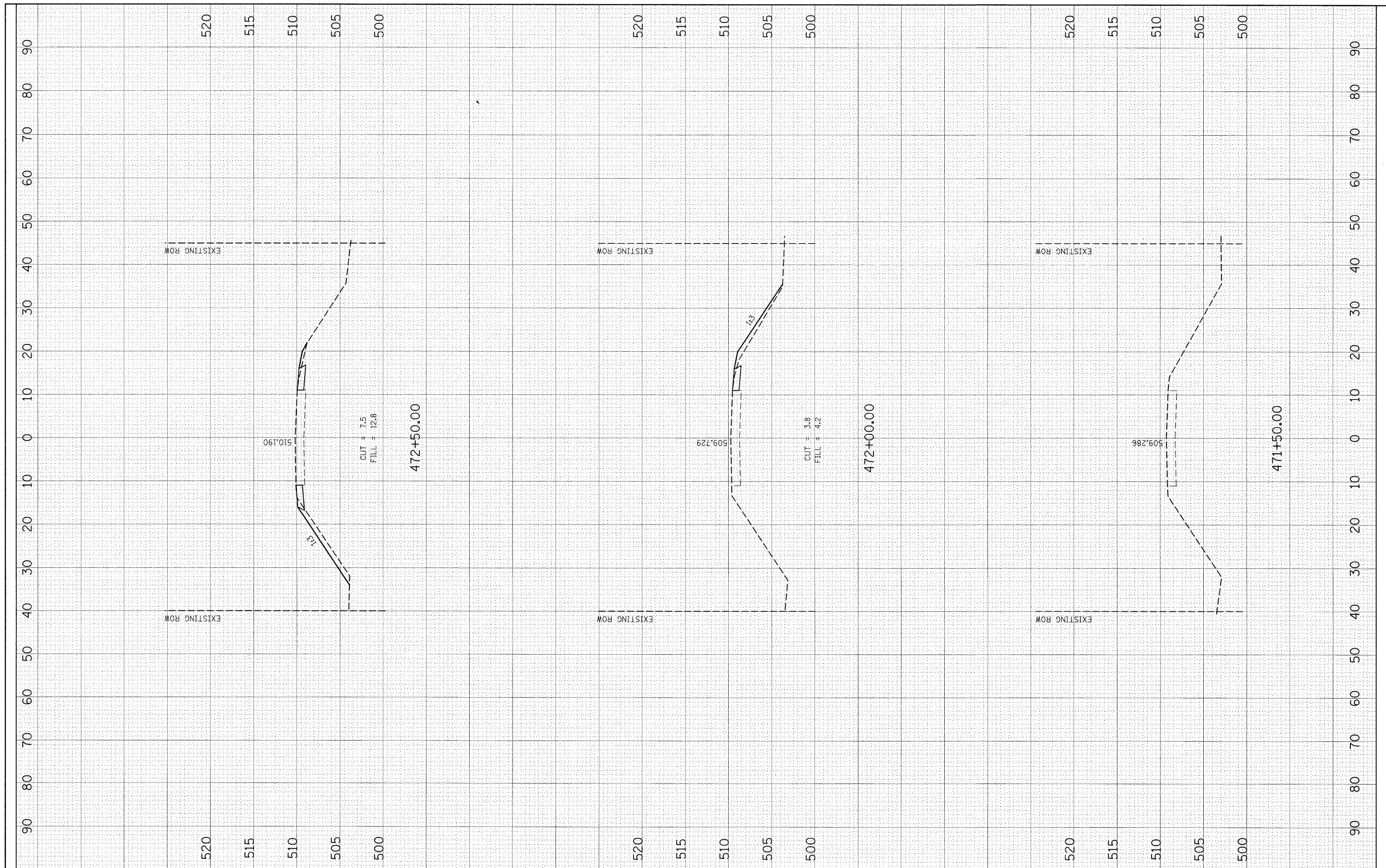
I-2-E1 12-1-83

FOR INFORMATION ONLY

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PLOT DATE = 9/11/2008	CHECKED -	REVISD -	CONTRACT NO. 76886									
	DATE -	REVISD -										

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

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



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DESIGNED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

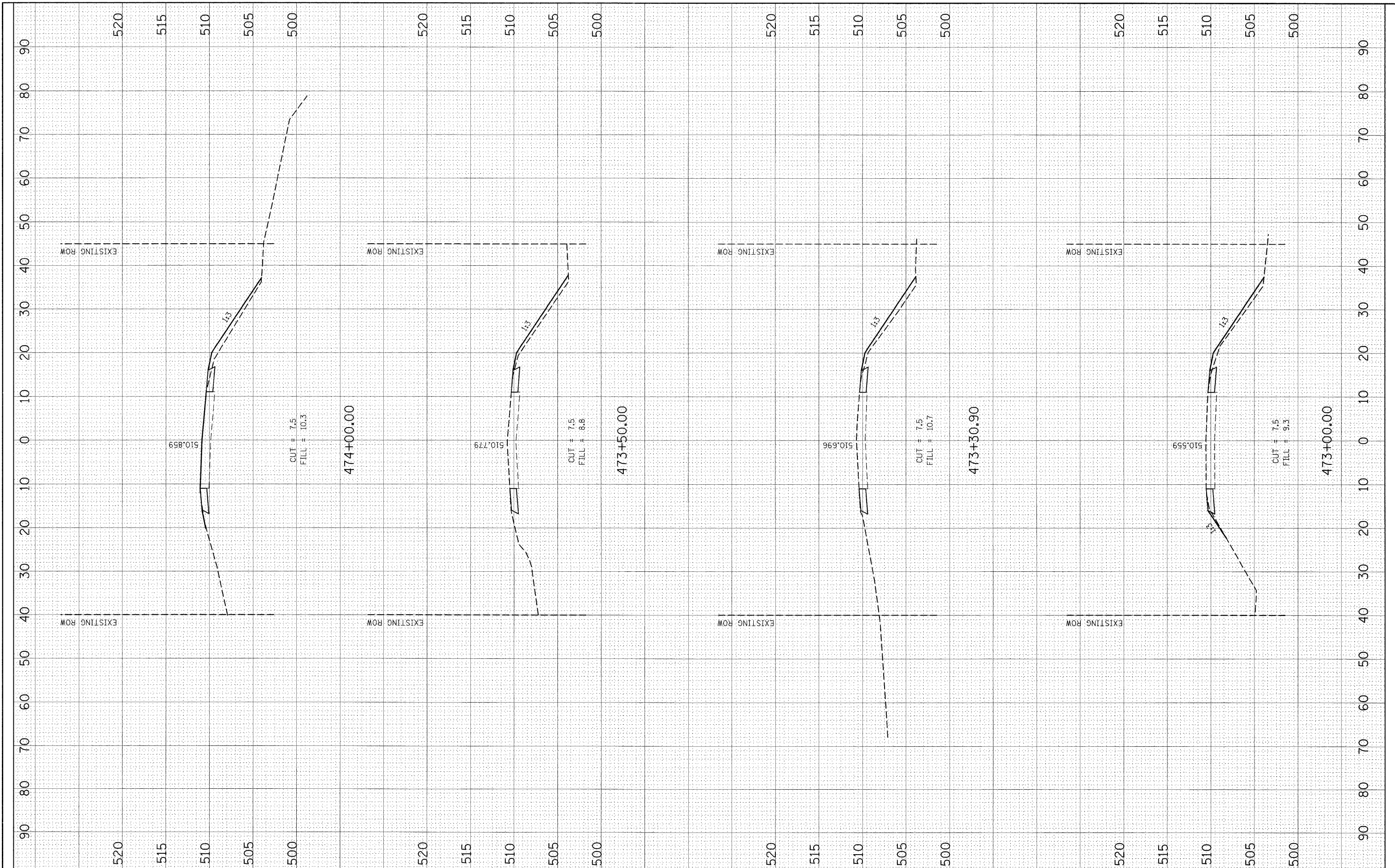
CROSS SECTION SHEET

SCALE: SHEET NO. 1 OF 4 SHEETS STA. 471+50 TO STA. 472+50

F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 53
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76886	

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

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



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 PLOT DATE = #DATE#

DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

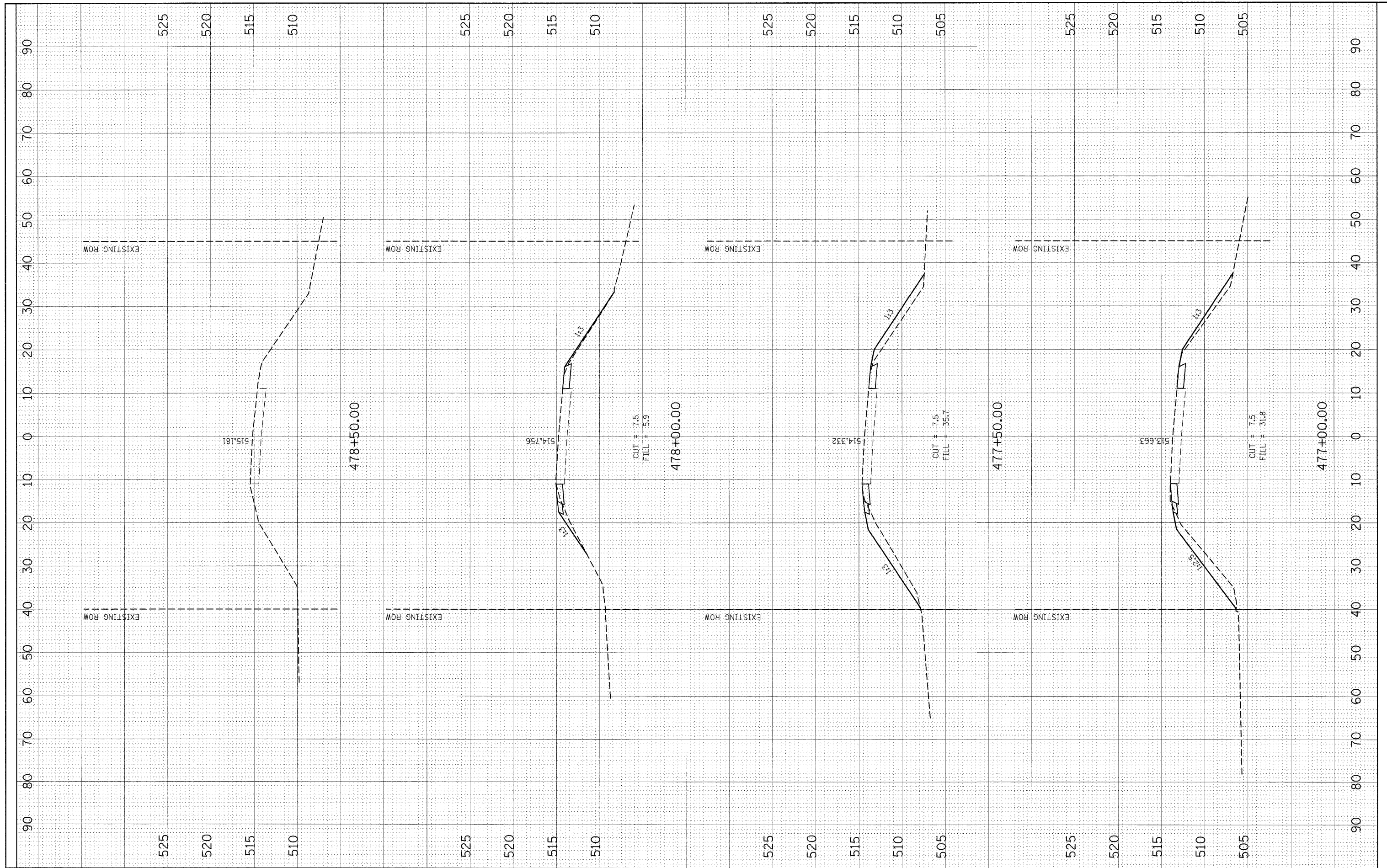
CROSS SECTION SHEET

SCALE: SHEET NO. 2 OF 4 SHEETS STA. 473+00 TO STA. 474+00

F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 54
CONTRACT NO. 76886				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = #FILE#

USER NAME = #USER#

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISIONS:

REVISOR -
 DATE -

REVISOR -
 DATE -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

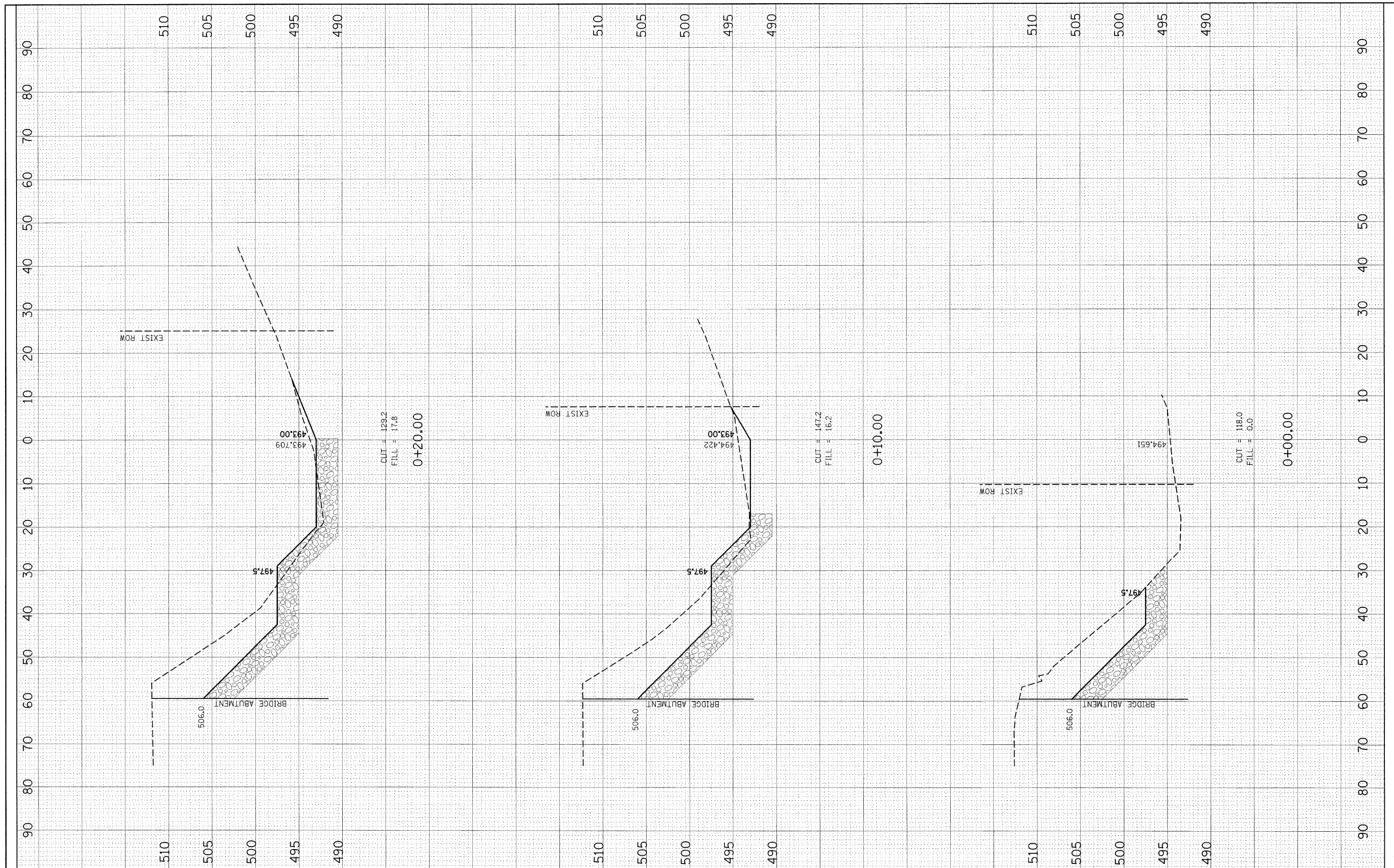
ROADWAY CROSS SECTIONS

SCALE: SHEET NO. 4 OF 4 SHEETS STA. 477+00 TO STA. 478+50

F.A.P. RTE. 304	SECTION 5A-BR	COUNTY CALHOUN	TOTAL SHEETS 60	SHEET NO. 56
CONTRACT NO. 76886				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

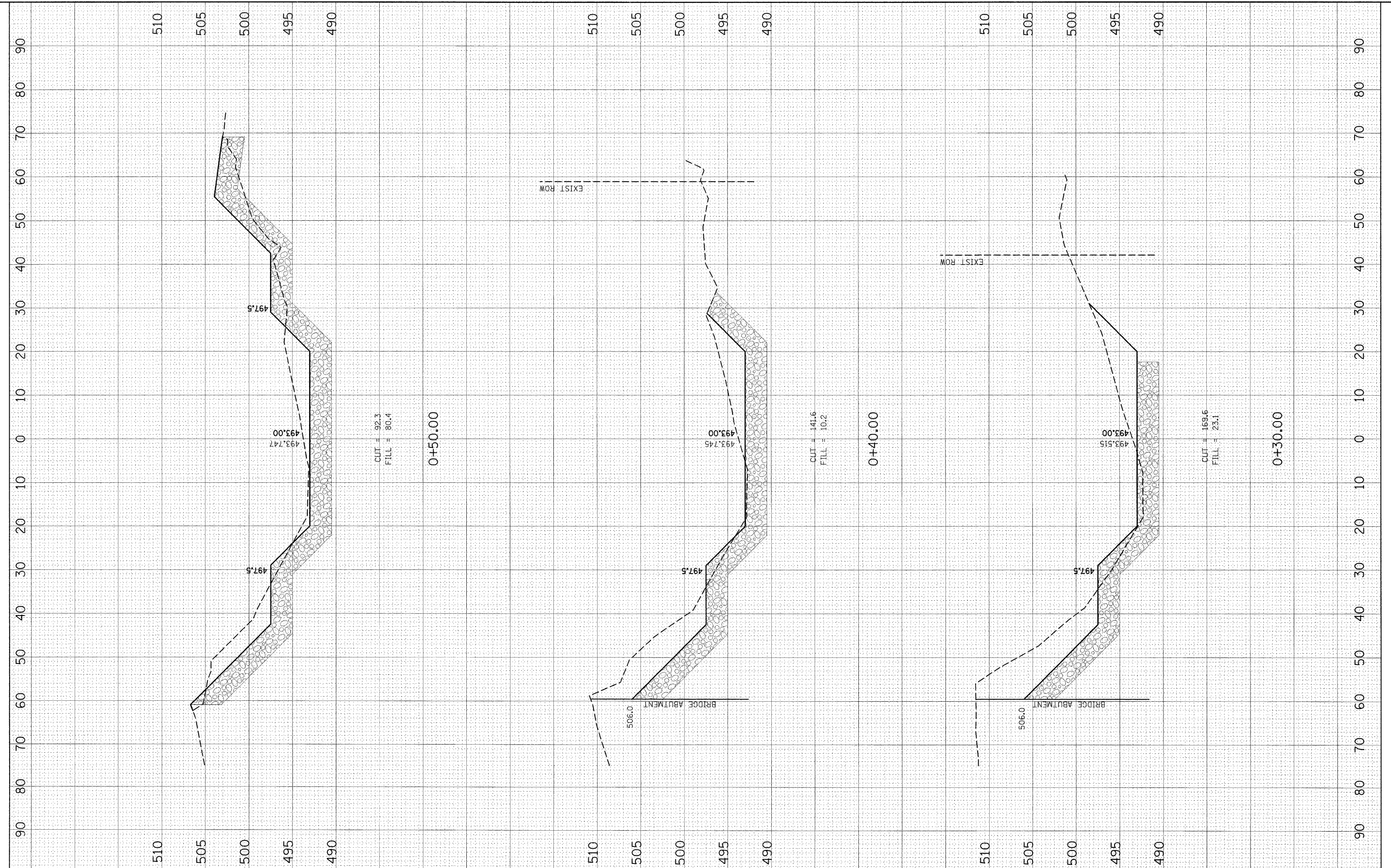
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED



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		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

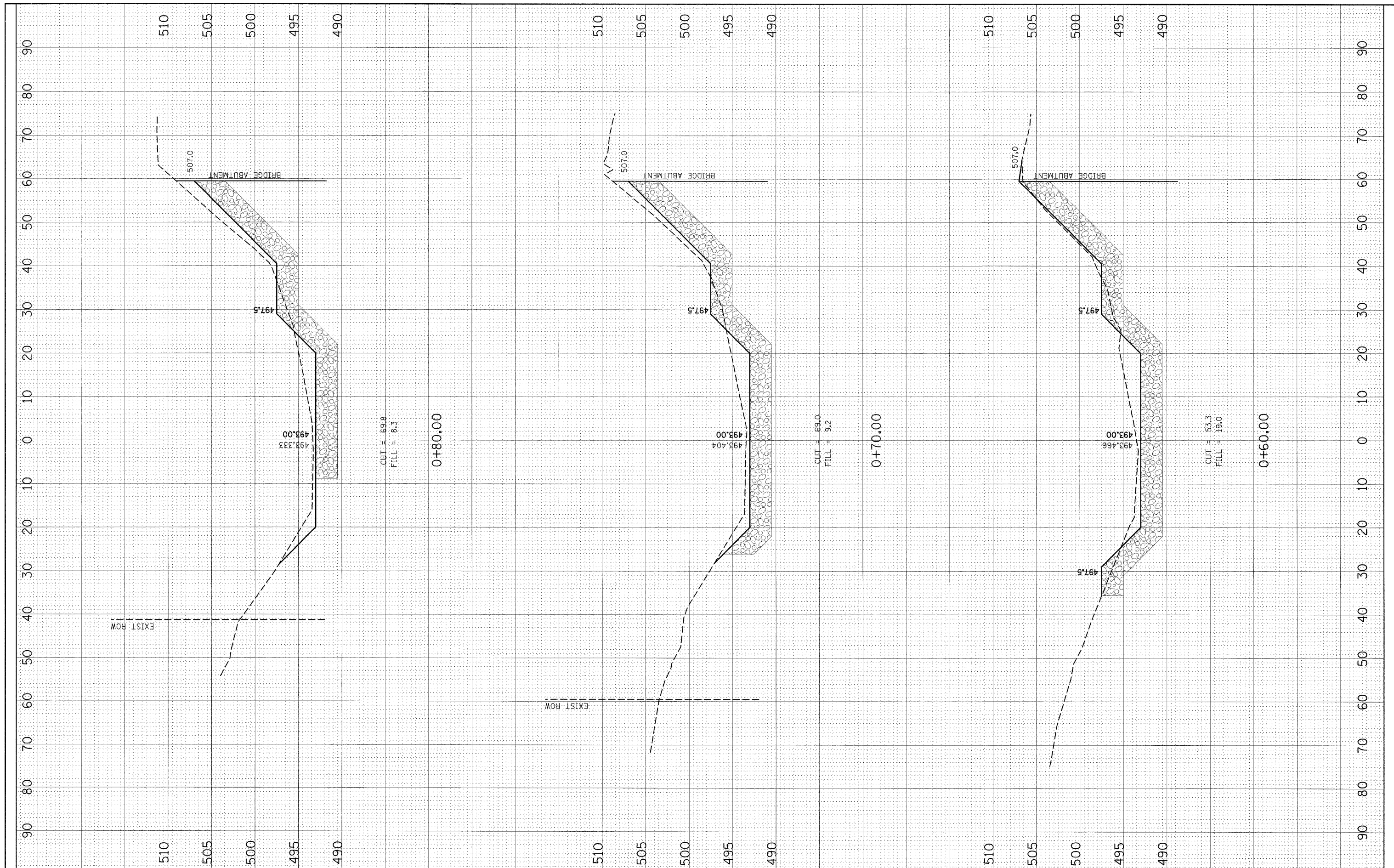
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NOTE BOOK NO.	FLOTTED		
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	AREAS CHECKED		



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

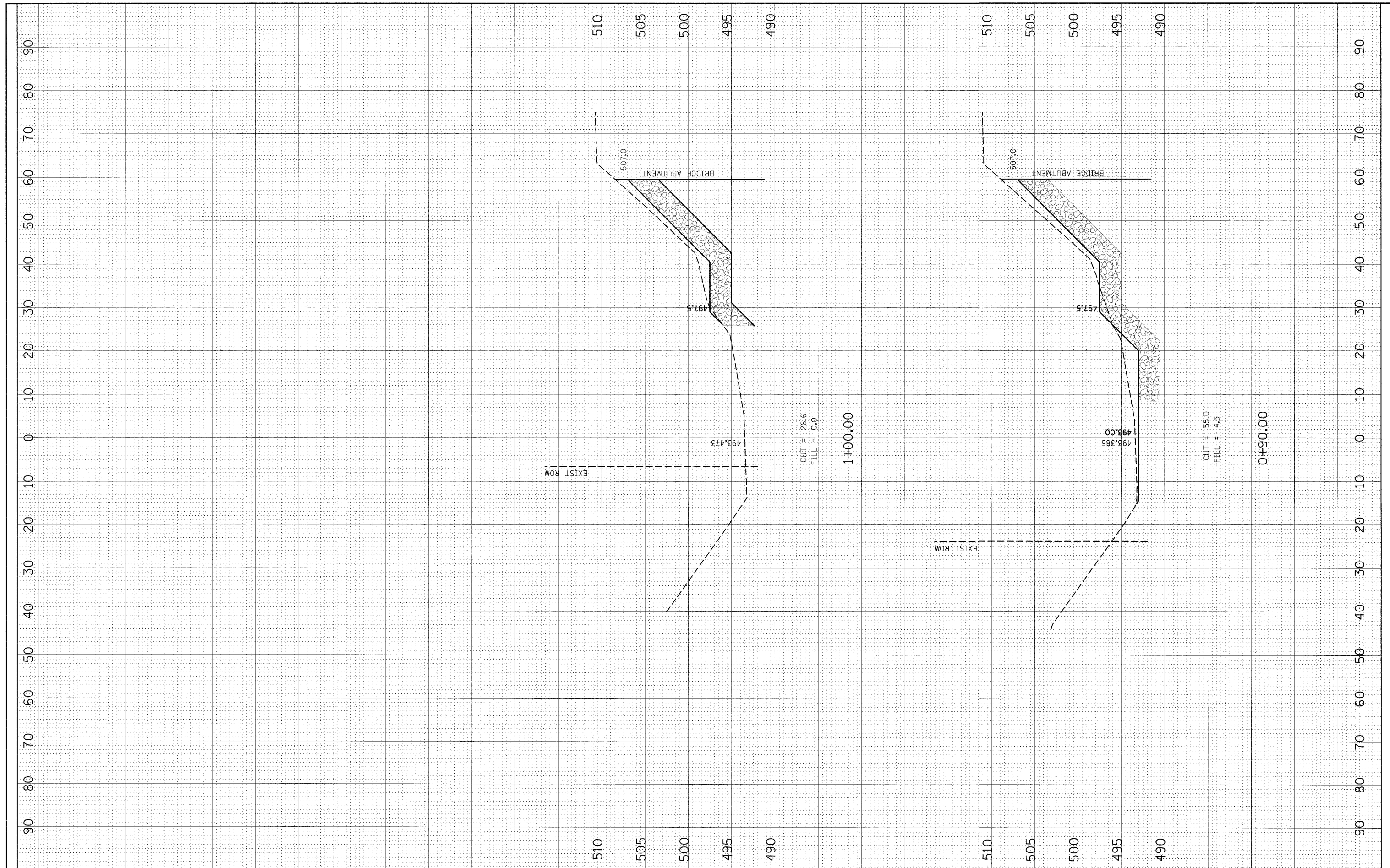
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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		DATE -	REVISED -									

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

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



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PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CHANNEL CROSS SECTIONS

SCALE: SHEET NO. 4 OF 4 SHEETS STA. 0+90 TO STA. 1+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	5A-BR	CALHOUN	60	60
CONTRACT NO. 76886				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				