

FA ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
28-3BR-1, 28-4BR		ST. CLAIR	101	1

* FAU 9251 / FAS 1848

100

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAU ROUTE 9251 / FAS ROUTE 1848 (IL 158 / 177)

SECTION 28-3BR-1, 28-4BR

PROJECT: *BRS-RS-1848(106)*

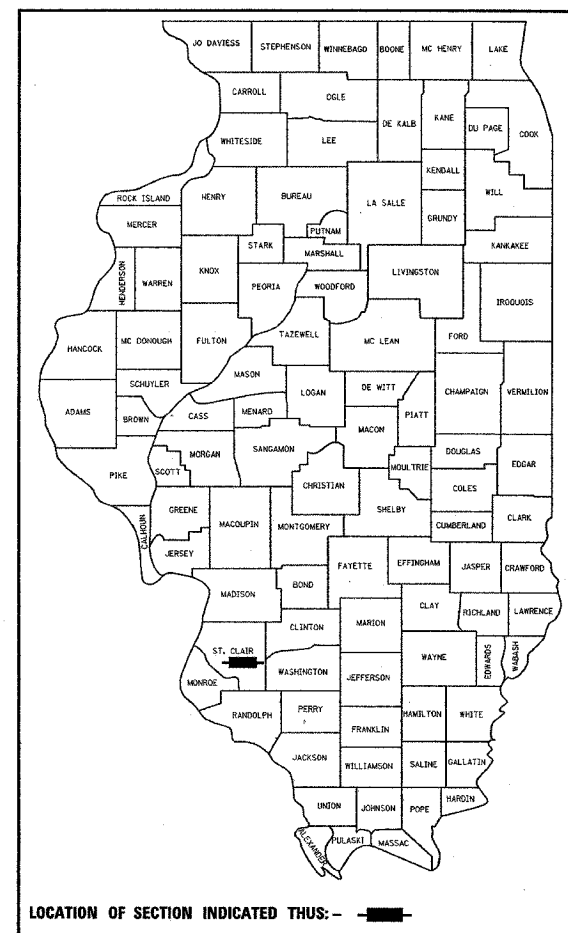
STRUCTURE REPLACEMENTS

ST. CLAIR COUNTY

C-98-061-05

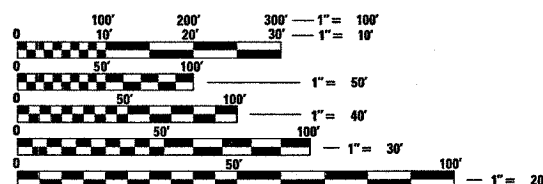
FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-98-124-00



PROJECT ENGINEER: **FATTI LeBEAU (618) 346-3179**
SQUAD CONTACT: **ARTHUR MUEHLFELD (618) 346-3209**

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS



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

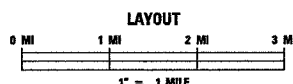
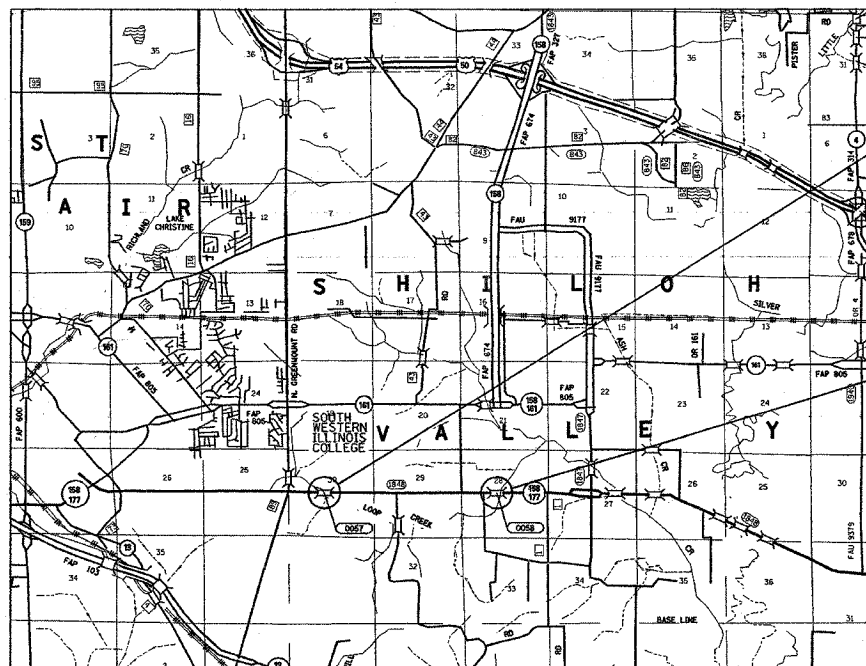
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 76394

SEC 28-3BR-1 SN 082-0398 (P)
ADT = 8600 (2003)
ADT = 13,100 (2024)
SU = 2.9%
MU = 2.6%

SEC 28-4BR SN 082-0272 (P)
ADT = 7000 (2003)
ADT = 10,600 (2024)
SU = 4.3%
MU = 2.5%

DESIGN DESIGNATION



SEC 28-3BR-1 SN 082-0398 (P)
LAT 38.50494
LONG 89.92155

SEC 28-4BR SN 082-0272 (P)
LAT 38.50462
LONG 89.88327

SINGLE SPAN PPC DECK BEAM
TO BE REPLACED WITH A THREE
SPAN I-BEAM STRUCTURE OVER
LOOP CREEK.
BEGIN STA 242+00
END STA 251+00
SN 082-0057 (E)
SN 082-0398 (P)

TWO SPAN RC SLAB TO BE
REPLACED WITH A THREE
SPAN I-BEAM STRUCTURE
OVER LOOP CREEK
BEGIN STA 352+60
END STA 360+20
SN 082-0058 (E)
SN 082-0272 (P)

SEC 28-3BR-1
GROSS LENGTH 0.020 MI
NET LENGTH 0.020 MI
SEC 28-4BR
GROSS LENGTH 0.021 MI
NET LENGTH 0.021 MI
TOTAL
GROSS LENGTH 0.041 MI
NET LENGTH 0.041 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED *Feb 10 2006*
May C. Lewis
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
March 24 2006
Mike Hene
ENGINEER OF DESIGN AND ENVIRONMENT
March 24 2006
Milton R. Sosa
DIRECTOR, DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ST. CLAIR	101	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• FAU 9251 / FAS 1848
 •• 28-3BR-I, 28-4BR

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- 9 WIDE LOAD SIGNING

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HIGHWAY STANDARDS

000001-04	631011-02	701311-02
280001-01	631031-05	701321-08
406201	635006-02	701326-02
420401-05	635011-01	702001-06
482001	701006-02	704001-02
515001-02	701011-01	780001-01
630001-06	701301-02	781001-02
630301-03	701306-01	

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 UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING BY CALLING J.U.L.I.E. AND BY NOTIFYING NON-J.U.L.I.E. MEMBERS INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - SBC (COMMUNICATIONS)
 - VERIZON NORTH, INC (COMMUNICATIONS)
 - BI-STATE DEVELOPMENT AGENCY (ELECTRIC)
 - ILLINOIS AMERICAN WATER CO.
 - AMEREN IP (GAS & ELECTRIC)
 - CITY OF BELLEVILLE (SANITARY SEWER)
 MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY •. NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
4. THE CONTRACTOR SHALL PROVIDE TWO SIGNAL HEADS (EACH) FOR THE APPROACHES ON THE SIDE ROAD & PRIVATE DRIVES. THE SIGNALS, DETECTOR LOOPS, THE NUMBER OF TURNS OF WIRE IN THE LOOPS SHALL BE AS DETERMINED BY THE ENGINEER.
5. ALL ADDITIONAL TRAFFIC SIGNAL HEADS, LOOP DETECTORS AND ASSOCIATED EQUIPMENT REQUIRED TO MAINTAIN ACCESS AT THE SIDEROADS OR DRIVEWAY ENTRANCES SHALL BE INCLUDED IN THE COST OF "TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)".
6. THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS; HOWEVER, INSTALLATION BY METHOD 'A' (ARTICLE 730.04(G)) SHALL BE THE ONLY METHOD PERMITTED.
7. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND ENDING OF THE PROJECT AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLOURESCENT ORANGE.
8. ALL SIGNS THAT INTERFERE WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STORED AND RE-ERECTED ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
9. ALL SAW CUTTING FOR REMOVAL ITEMS SHALL BE FULL DEPTH AND SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM.
10. NO TRENCHES OR OPEN PITS WILL BE PERMITTED ADJACENT TO A TRAFFIC LANE DURING NON-WORKING HOURS. ALL WIDENING TRENCHES SHALL BE BACKFILLED DURING THE SAME WORKING DAY IT WAS EXCAVATED.
11. THE COST FOR GRADING AND SHAPING ALONG THE PROPOSED BASE COURSE SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
12. THE TRAFFIC CONTROL MEASURES SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH TRAFFIC CONTROL STANDARD 701321.
13. THE COST OF "BARRICADES, TYPE III" SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".
14. THE PROPOSED TBT, TYPE 1 SPECIAL (TANGENT) TO BE USED DURING STAGE II CONSTRUCTION (NW & NE QUADRANTS - BOTH STRUCTURES) SHALL BE REMOVED AND RE-ERECTED AT IT'S FINAL LOCATION AS SHOWN IN THE PLANS AFTER STAGE CONSTRUCTION IS COMPLETE. THIS WORK SHALL BE PAID FOR AS "REMOVE AND RE-ERECT TRAFFIC CONTROL BARRIER TERMINAL, TYPE 1".
15. THE COST TO REMOVE ALL THE EXISTING TRAFFIC BARRIER TERMINALS SHALL BE INCLUDED IN THE COST OF "GUARDRAIL REMOVAL".

16. ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.
17. SEE STANDARD 635011 FOR BARRIER WALL MARKER DETAILS. "BARRIER WALL MARKERS, TYPE C" SHALL BE PLACED ON THE TOP OF THE BARRIER WALL. "BARRIER WALL MARKERS, TYPE B" SHALL BE PLACED ON THE SIDE OF THE BARRIER WALL.
18. A QUANTITY OF 987.5 FEET OF "TEMPORARY PAVEMENT MARKING - LINE 6" " WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
19. THE BARRIER UNIT AT EACH END OF THE TRAFFIC CONTROL INSTALLATION SHALL BE SECURED TO THE PAVEMENT OR SHOULDER USING ALL SIX ANCHORING PINS FOR F-SHAPE BARRIER OR ALL SIX DOWEL BARS FOR NEW JERSEY SHAPE BARRIER.
20. THE TEMPORARY CONCRETE BARRIER (STATE OWNED) IS LOCATED AT IL ROUTE 111, NORTH OF I-55/70. THE CONTRACTOR SHALL PICK UP THE BARRIER AND RETURN THE BARRIER TO THE SAME LOCATION UPON COMPLETION OF THE PROJECT. ANY DAMAGED BARRIER WILL NOT HAVE TO BE REPLACED. THE CONTRACTOR SHALL DISPOSE OF DAMAGED CONCRETE BARRIER IN AN APPROVED DUMP SITE. THE CONNECTOR PINS SHALL BE FURNISHED BY THE CONTRACTOR AND THE COST SHALL BE INCLUDED WITH THE COST OF "TEMPORARY CONCRETE BARRIER (STATE OWNED)"

EROSION CONTROL PLAN

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE 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.

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.

TEMPORARY DITCH CHECK, GEOTEXTILES, ROLLED EXCELSIOR, SILT WEDGES, PANELS SHALL BE LOCATED AT EVERY 1.5 FT FALL/RISE IN DITCH GRADE.

TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3 -- REMOVES AT END OF CONSTRUCTION

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 WAS ASSUMED.

ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING AS DIRECTED BY THE ENGINEER. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04, AND SHALL BE INCLUDED IN THE COST OF "SEEDING, CLASS 2".

CLASS 2 SEEDING AND EROSION CONTROL BLANKET SHALL BE PLACED AS SOON AS THE EARTHWORK IS COMPLETED.

EROSION CONTROL BLANKET IS TO BE PLACED ON ALL SLOPES 1:2 OR STEEPER.

EARTH STOCKPILES SHALL BE TEMPORARILY SEEDDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.

FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.

COMMITMENTS

AFTER WORK IS COMPLETE AROUND PARCEL #8503003, BEFORE FINALIZING THE PROJECT, THE RESIDENT ENGINEER WILL CONTACT MR. RENNER FOR A JOINT WALK-THROUGH.

BITUMINOUS MIXTURE CHART

MIXTURE USE	SURFACE	BINDER	SHOULDERS	TOP LIFT SHOULDERS	BRIDGE APP PVMT CONN (FLEXIBLE)	BASE COURSE
AC/PG	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 64-22	PG 64-22
RAP % (MAX)	10%	15%	30%	30%	15%	30%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=30	**2.0% @ Ndes=30	4.0% @ Ndes=70	2.0% @ Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)						
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	BAM	BAM	MIXTURE "B"	BSE CSE

•• TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
 FAU ROUTE 9251/FAS ROUTE 1848
 SECTION 28-3BR-I, 28-4BR
 ST. CLAIR COUNTY

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	**	ST. CLAIR	101	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• FAU 9251 / FAS 1848 •• 28-3BR-1, 28-4BR				

SUMMARY OF QUANTITIES			801.FED./201.STATE	BRS			RS			
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						
				28-3BR-I I000-2A	28-3BR-I X071-2A	SFTY-3N	28-4BR I000-2A	28-4BR X071-2A	SFTY-3N	
20200100	EARTH EXCAVATION	CU YD	170	45			125			
20300100	CHANNEL EXCAVATION	CU YD	2215		985			1230		
20400800	FURNISHED EXCAVATION	CU YD	1170	915			255			
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	211		121			90		
25000200	SEEDING, CLASS 2	ACRE	0.75	0.375			0.375			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	34			34			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	34			34			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	34			34			
25100115	MULCH, METHOD 2	ACRE	0.75	0.375			0.375			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	230	115			115			
28000300	TEMPORARY DITCH CHECKS	EACH	5	5						
28000400	PERIMETER EROSION BARRIER	FOOT	2171	895			1276			
28100109	STONE RIPRAP, CLASS A5	SQ YD	3010		1585			1425		
28200200	FILTER FABRIC	SQ YD	3195		1586			1610		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	1			1			
40600300	AGGREGATE (PRIME COAT)	TON	7	4			3			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	660	405			255			
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	73	73						
40600990	TEMPORARY RAMP	SQ YD	325	140			185			
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	15	5			10			
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	94	94						
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	587		320			267		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	118		64			54		
44000100	PAVEMENT REMOVAL	SQ YD	1480	862			618			
44004000	PAVED DITCH REMOVAL	FOOT	70	70						
44004250	PAVED SHOULDER REMOVAL	SQ YD	911	445			466			
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	1001	413			588			
48202000	BITUMINOUS SHOULDERS SUPERPAVE	TON	641	388			253			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1					
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1					1		
50200100	STRUCTURE EXCAVATION	CU YD	594		330			264		
50300100	FLOOR DRAINS	EACH	18		18					
50300225	CONCRETE STRUCTURES	CU YD	299.7		164.9			134.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	380.8		227.8			153		

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 REFERENCE = #REF*

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ST. CLAIR	101	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* FAU 9251 / FAS 1848				
** 28-3BR-1, 28-4BR				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT		28-3BR-I I000-2A	28-3BR-I X071-2A	SFTY-3N	28-4BR I000-2A	28-4BR X071-2A	SFTY-3N		
50300260	BRIDGE DECK GROOVING	SQ YD	1165		705			460			
50300300	PROTECTIVE COAT	SQ YD	1428.5		852			576.5			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.61			0.39			
50500505	STUD SHEAR CONNECTORS	EACH	5430		3120			2310			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	119,710		70570			49140			
51201400	FURNISHING STEEL PILES HP10X42	FOOT	801		801						
51201700	FURNISHING STEEL PILES HP12X74	FOOT	1540					1540			
X0325278	DRIVING STEEL PILES	FOOT	1429		389			1540			
51203400	TEST PILE STEEL HP10X42	EACH	1		1						
X0325277	PILE SHOES	EACH	28					28			
51205200	TEMPORARY SHEET PILING	SQ FT	1958		1958						
51500100	NAME PLATES	EACH	2		1			1			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	136		73			63			
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	311		171			140			
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	375	200			175				
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1				1				
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4			4				
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	7	4			3				
63200310	GUARDRAIL REMOVAL	FOOT	1675	987.5			687.5				
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	412.5	225			187.5				
63301990	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4	2			2				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	19		12			7			
67100100	MOBILIZATION	L SUM	1		0.61			0.39			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5			0.5				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5			0.5				
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	2		1			1			
70106600	TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)	EACH	2		1			1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	232	152			80				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	31	31							
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6998	5000			1998				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1863	1125			738				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	212	212							

*SPECIALTY ITEMS

PLOT DATE = 2/8/2006
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SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ST. CLAIR	101	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• FAU 9251 / FAS 1848 ** 28-3BR-I, 28-4BR				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT		28-3BR-I 1000-2A	28-3BR-I X071-2A	SFTY-3N	28-4BR 1000-2A	28-4BR X071-2A	SFTY-3N		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2653	1960			693				
70400500	TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	987.5	612.5			375				
70400600	RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)	FOOT	875	512.5			362.5				
70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	412.5	225			187.5				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	31	31							
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5429	3809			1620				
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	109	109							
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1566	1188			378				
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	103	103							
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	48	41			7				
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	12		10			2			
78100300	REPLACEMENT REFLECTOR	EACH	7	5			2				
78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	9			7				
78200520	BARRIER WALL MARKERS, TYPE B	EACH	6		3			3			
78200530	BARRIER WALL MARKERS, TYPE C	EACH	6		3			3			
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	4			3				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	2576	1910			666				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	67	56			11				
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	456					456			
X3550610	BITUMINOUS BASE COURSE SUPERPAVE 9 1/2"	SQ YD	633	338			295				
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	341	211			130				
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - L1	EACH	1					1			
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	1753	1291			462				
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - L2	EACH	1								
X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1		1						
X5020504	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 4	EACH	1		1						
X7200200	WIDE LOAD SIGNING	L SUM	1	0.5			0.5				
Z0002600	BAR SPLICERS	EACH	1111		611			500			
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4			2			2		
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1						1		

* SPECIALTY ITEMS

Rev.

PLOT DATE = 3/1/2006
 FILE NAME = c:\nrc\pms\ed2480\plan\pin0514.dgn
 PLOT SCALE = 80.0000 / IN.
 REFERENCE = #REF#

SUMMARY OF QUANTITIES

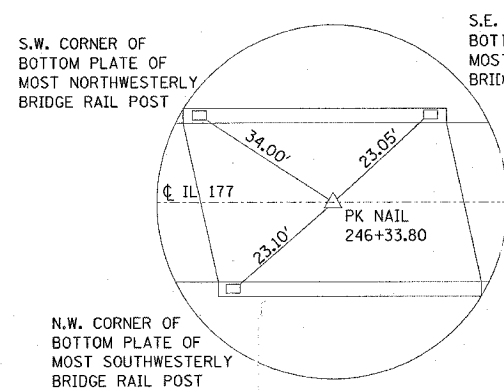
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ST. CLAIR	101	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• FAU 9251 / FAS 1848 •• 28-3BR-I, 28-4BR				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		28-3BR-I I000-2A	28-3BR-I X071-2A	SFTY-3N	28-4BR I000-2A	28-4BR X071-2A	SFTY-3N
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3			2			1
* Z0065000	SETTING PILES IN ROCK	EACH	16		16				

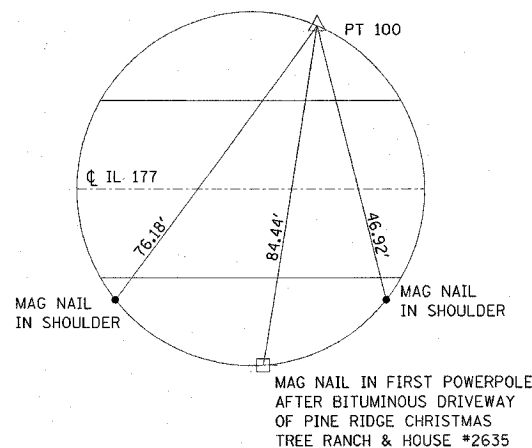
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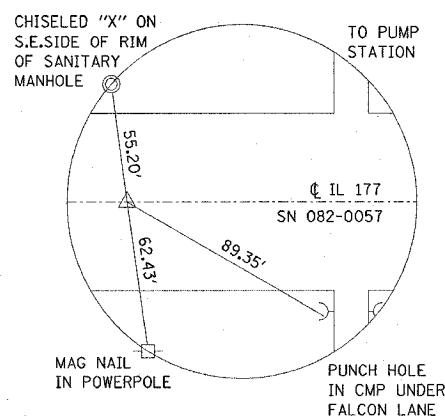
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•	••	ST. CLAIR	101	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• FAU 9251 / FAS 1848				
•• 28-3BR-I, 28-4BR				



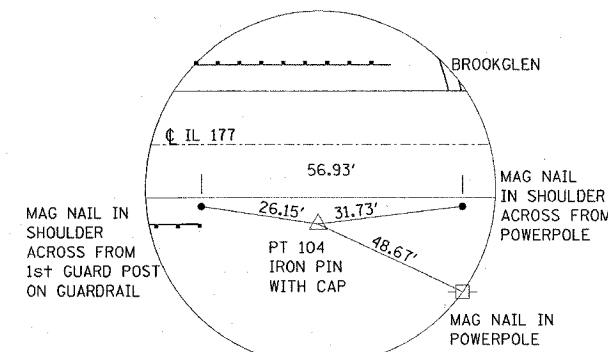
SN 082-0057



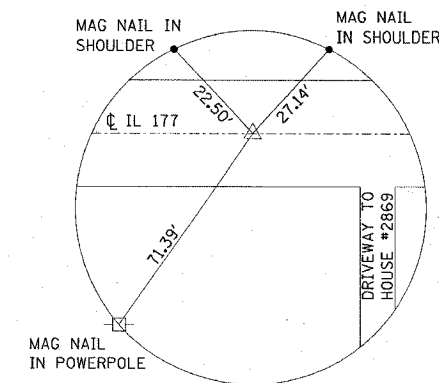
PT 100
STA. 233+48±
OFFSET 20.87'



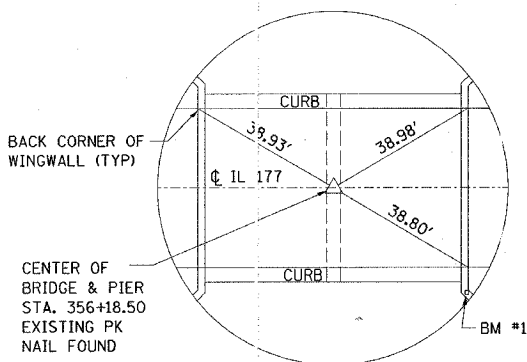
STA. 242+00



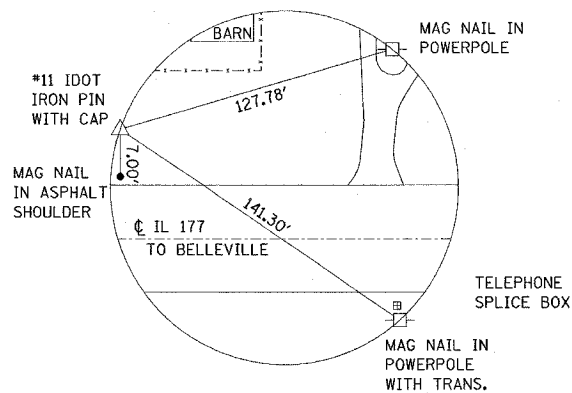
PT 104
STA. 249+00±
OFFSET 24.38'±



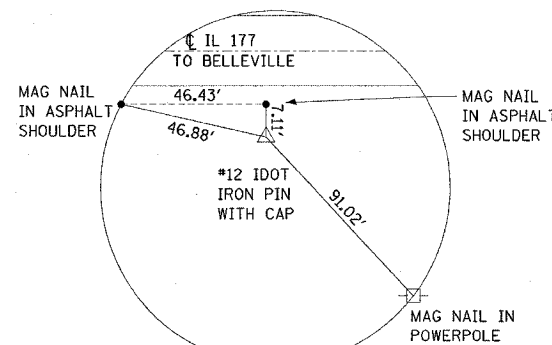
STA. 254+00



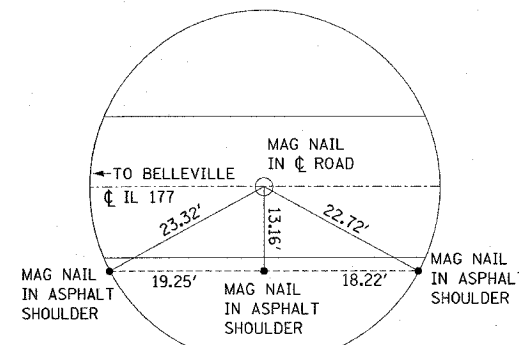
SN 082-0058



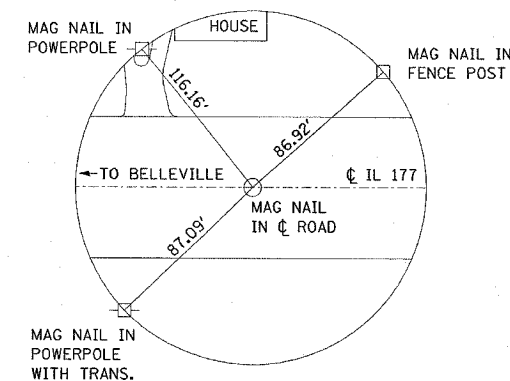
CONTROL POINT #11



CONTROL POINT #12



STA. 351+00



STA. 360+76.55

NOTE: ALL TIES PULLED DIRECT

BENCHMARKS

- SN 082-0057 BM #1 - CHISELED "□" ON TOP OF N.W. WINGWALL AT THE WEST ABUTMENT STA. 245+85± ELEV = 462.91
- SN 082-0058 BM #1 - CHISELED "□" ON TOP OF S.E. WINGWALL STA. 356+55.00, 20.0' RT, ELEV = 439.92

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

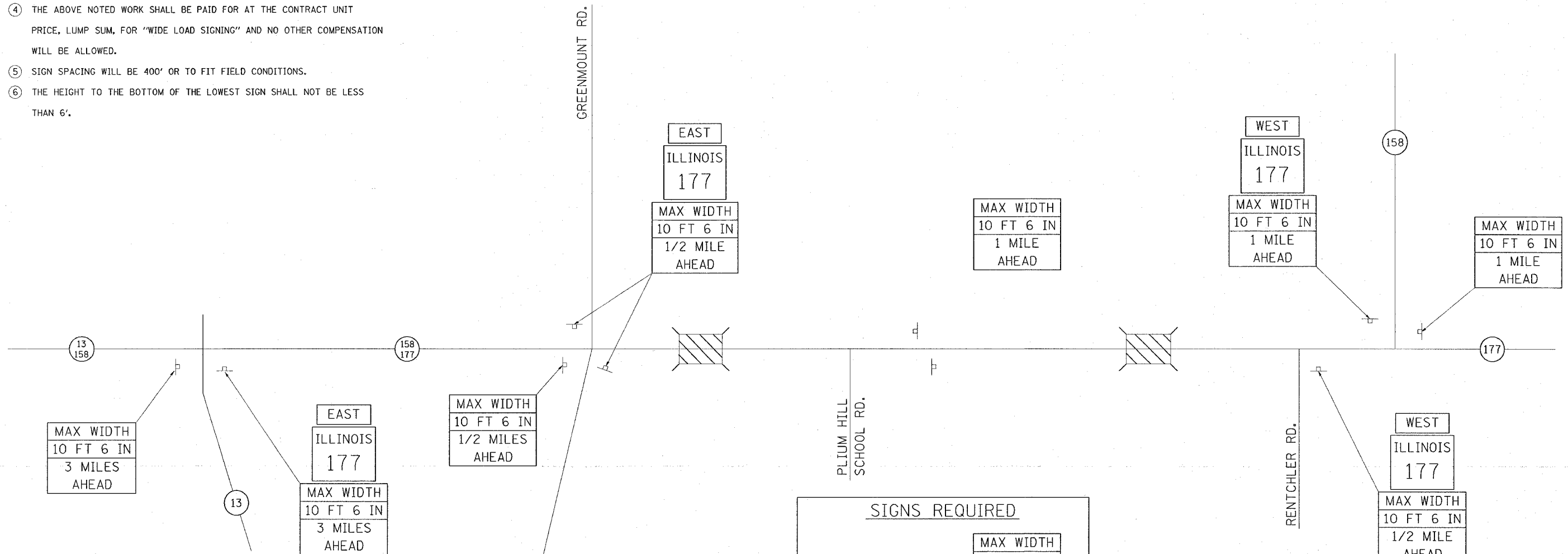
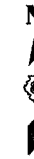
TIE POINTS AND BENCHMARKS

FAU ROUTE 9251/FAS ROUTE 1848
SECTION 28-3BR-I, 28-4BR
ST. CLAIR COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	ST. CLAIR	101	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• FAU 9251 / FAS 1848				
•• 28-3BR-1, 28-4BR				

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 HGTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT.
- 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 NOT BE LESS THAN 6'.



SIGNS REQUIRED	
EAST (3)	MAX WIDTH 10 FT 6 IN 1/2 MILE AHEAD (4)
WEST (2)	MAX WIDTH 10 FT 6 IN 1 MILE AHEAD (4)
ILLINOIS 177 (5)	MAX WIDTH 10 FT 6 IN 3 MILES AHEAD (2)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDE LOAD SIGNING
 FAU ROUTE 9251/FAS ROUTE 1848
 SECTION 28-3BR-1, 28-4BR
 ST. CLAIR COUNTY

PLOT DATE = 2/19/2006
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 REFERENCE = #REF#

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EARTHWORK SCHEDULE

LOCATION	CHANNEL EXCAVATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO STATION	CU YD	CU YD	CU YD	CU YD	CU YD
SN 082-0398 CHANNEL					
STA 0+20.00 TO STA 1+90.00	985				
SN 082-0398 MAINLINE					
STA 242+00.00 TO STA 245+80.30		30.5	22.9	488.9	-466.0
STA 246+87.30 TO STA 251+00.00		14.5	10.9	459.9	-449.0
SUBTOTAL	985	45	33.8	948.8	-915

STAGING SCHEDULE

LOCATION	BITUMINOUS BASE COURSE SUPERPAVE, 9 1/2"	PAVEMENT REMOVAL	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)
STATION TO STATION	SQ YD	SQ YD	FOOT	FOOT	FOOT	EACH	EACH
SN 082-0057 (E)							
SN 082-0398 (P)							
STAGE I	204				512.5	2	
STAGE II	134	134	225	612.5			2
TOTAL	338	134	225	612.5	512.5	2	2

* NOT A TOTAL QUANTITY FOR THIS STRUCTURE. SEE RESURFACING SCHEDULE.

RESURFACING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE	BITUMINOUS SHOULDERS	AGGREGATE SHOULDERS, TYPE A, 6"	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT
STATION TO STATION	TON	TON	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
SECTION 28-3BR-1 SN 082-0398										
STA 242+00.00 TO STA 242+50.00	0.04	0.20	11.4	0.0	17.9	33.3		33.3	133.3	
STA 242+50.00 TO STA 243+00.00	0.04	0.21	12.0	0.0	12.0	39.9		50.0	133.3	
STA 243+00.00 TO STA 243+50.00	0.07	0.23	12.9	47.0	18.1	33.3		50.0		
STA 243+50.00 TO STA 244+00.00	0.07	0.25	13.9	68.9	15.8	33.3		33.3		
STA 244+00.00 TO STA 244+50.00	0.08	0.27	14.9	167.6	41.2	30.7		20.7		
STA 244+50.00 TO STA 245+00.00	0.08	0.28	15.9	167.3	46.2	16.7		16.7		
STA 245+00.00 TO STA 245+28.80	0.04	0.17	9.6	147.4	36.5	9.6		9.6		
STA 245+28.80 TO STA 246+14.00								383.6	31.4	
STA 246+54.00 TO STA 247+38.80								405.4	26.3	
STA 247+38.80 TO STA 247+50.00	0.02	0.07	3.8	107.0	34.1	3.7		3.7		
STA 247+50.00 TO STA 248+00.00	0.08	0.35	16.9	179.4	47.3	16.7		16.7		
STA 248+00.00 TO STA 248+50.00	0.08	0.35	16.9	201.3	42.0	29.3		20.0		
STA 248+50.00 TO STA 249+00.00	0.08	0.35	16.9	87.8	16.6	33.3		33.3		
STA 249+00.00 TO STA 249+50.00	0.08	0.35	16.9	79.1	18.4	33.3		16.7		
STA 249+50.00 TO STA 250+00.00	0.08	0.35	16.9	26.1	12.0	33.3		16.7		22
STA 250+00.00 TO STA 250+50.00	0.08	0.29	16.6	12.1	17.9	33.3		33.3		
STA 250+50.00 TO STA 251+00.00	0.08	0.28	15.5	0.0	12.0	33.3		33.3	138.4	
TOTAL	1	4	211	1291	388	413		789	445	405

* NOT A TOTAL QUANTITY FOR THIS STRUCTURE. SEE STAGING SCHEDULE.

EROSION CONTROL SCHEDULE

LOCATION	RIGHT OR LEFT	TEMPORARY DITCH CHECKS EACH	PERIMETER EROSION BARRIER FOOT
STA 245+00	RT	1	
STA 245+35	RT	1	
STA 245+70	RT	1	
STA 247+45	RT	1	
STA 247+90	RT	1	
STA 243+25 TO STA 245+00	RT		175
STA 243+25 TO STA 245+65	LT		240
STA 247+00 TO STA 249+30	LT		230
STA 248+50 TO STA 251+00	RT		250
TOTAL		5	895

TEMPORARY RAMP SCHEDULE

LOCATION	WIDTH FOOT	LENGTH FOOT	TEMPORARY RAMP SQ YD
STAGE II			
STA 244+46	30	18	60
STA 245+26	5	18	10
STA 247+36	5	18	10
STA 248+16	30	18	60
TOTAL			140

ALL QUANTITIES ON THIS SHEET ARE NOT TOTAL PROJECT QUANTITIES. THE QUANTITIES ON THIS SHEET ARE THE TOTAL FOR SN 082-0398.

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 1, SPC (TANGENT)	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	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	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
WB IL 176							5	1	1	
EB IL 177							4	2	2	
NW QUADRANT	212.5		75	1	1	1				1
NE QUADRANT	287.5		150	1	1	1				1
SW QUADRANT	275	150		1		1				1
SE QUADRANT	212.5	50		1		1				1
TOTAL	987.5	200	225	4	2	4	9	3	3	4

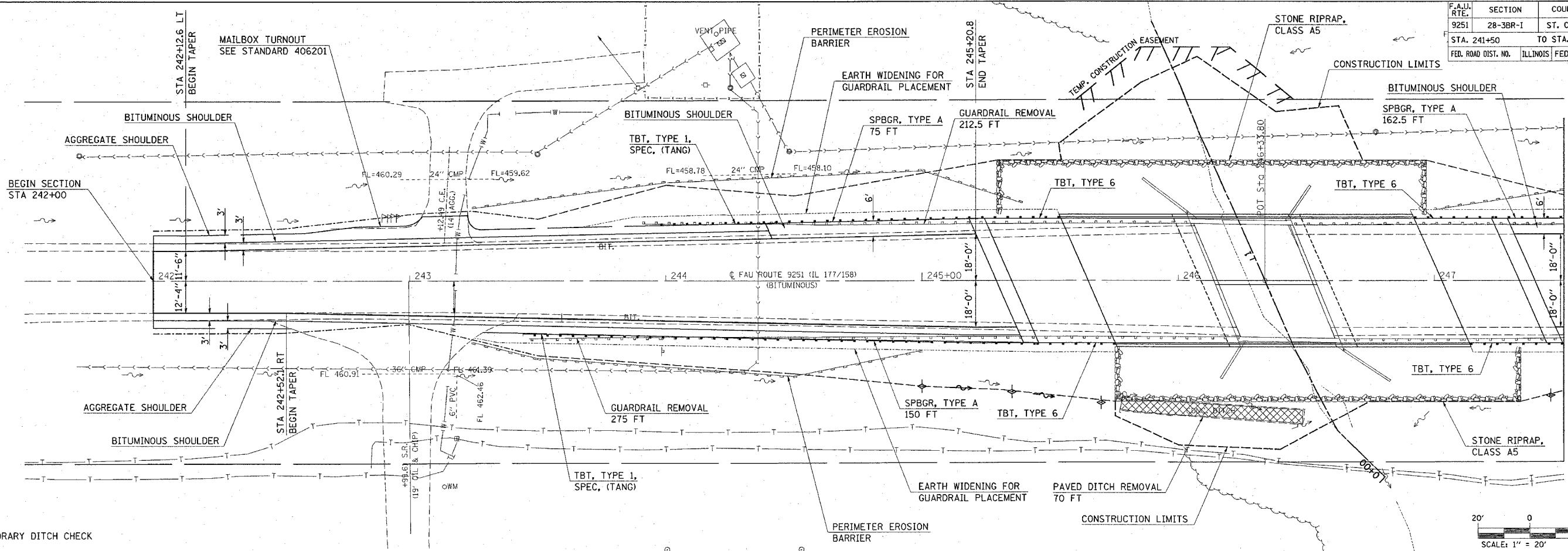
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

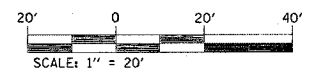
SCHEDULE OF QUANTITIES

FAU ROUTE 9251
SECTION 28-3BR-1
ST. CLAIR COUNTY
SN 082-0057(E) 0398(P)

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	12
STA. 241+50		TO STA. 247+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



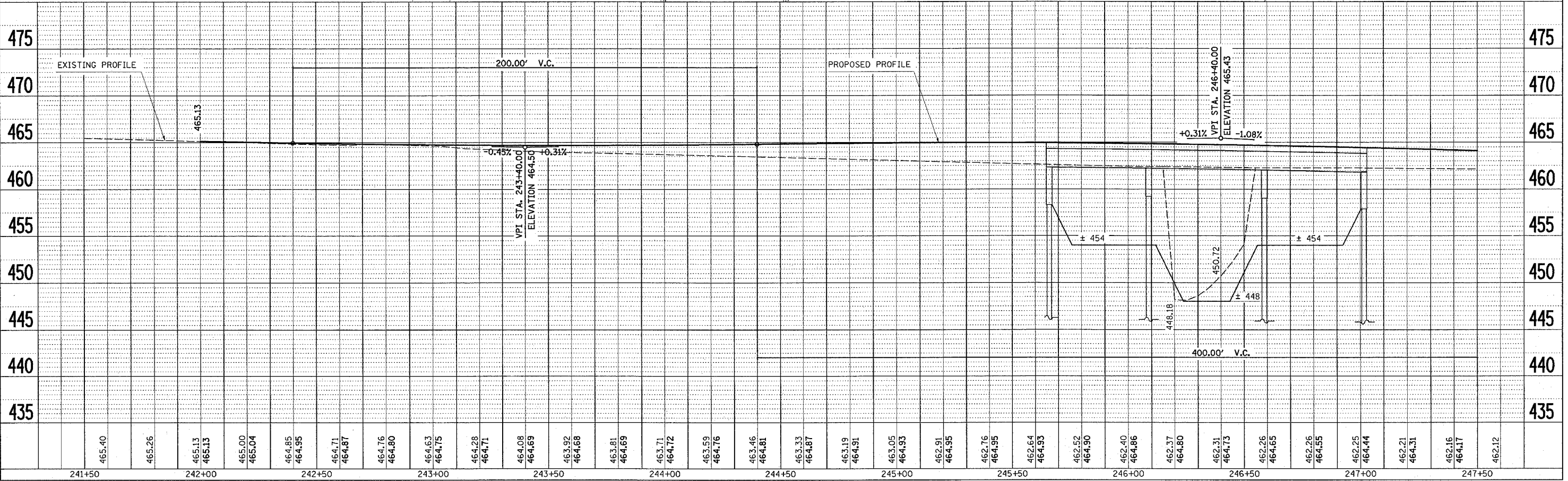
MATCHLINE 247+50



DATE	BY

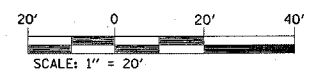
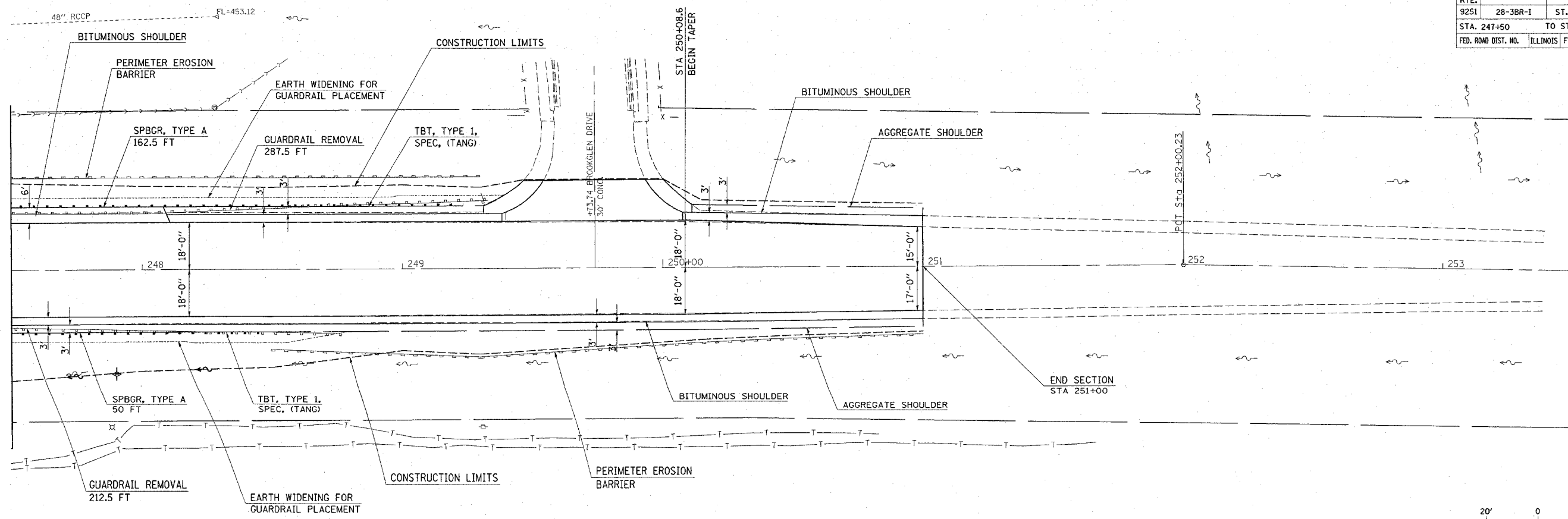
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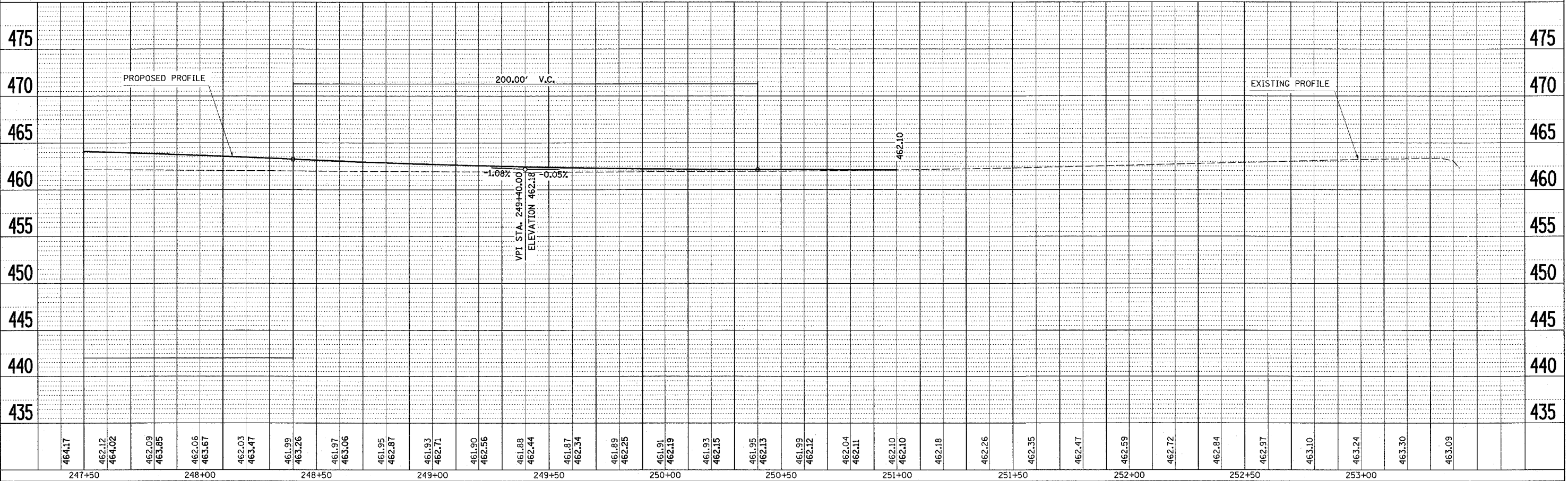


F.A.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	13
STA. 247+50		TO STA. 253+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MATCHLINE 247+50



TEMPORARY DITCH CHECK



DATE	BY

DATE	BY

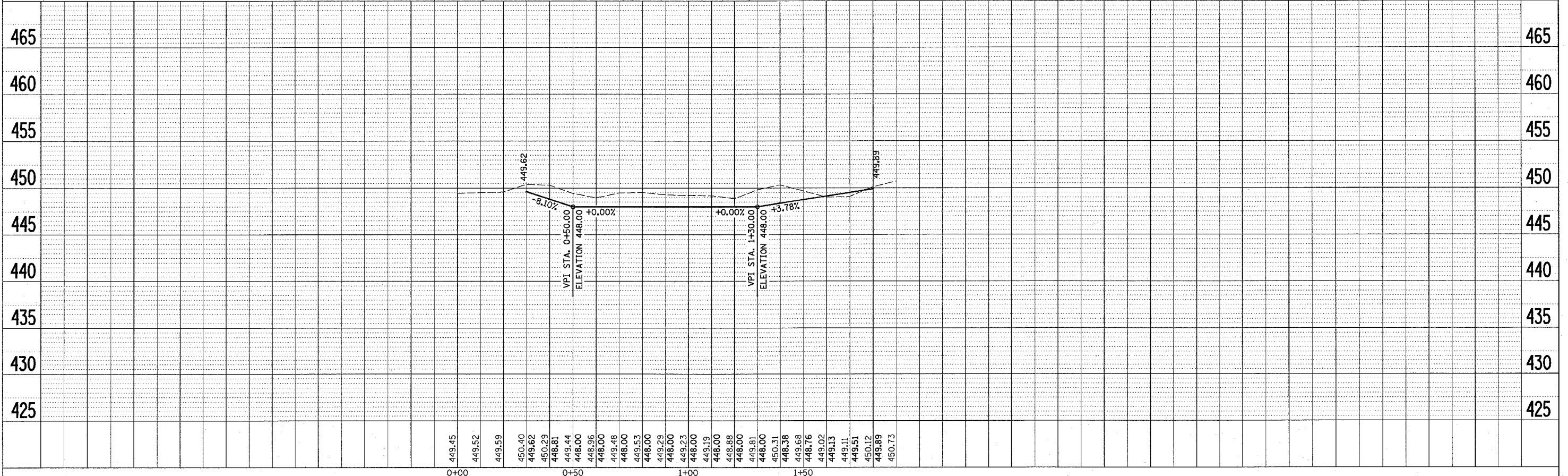
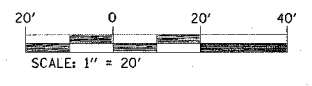
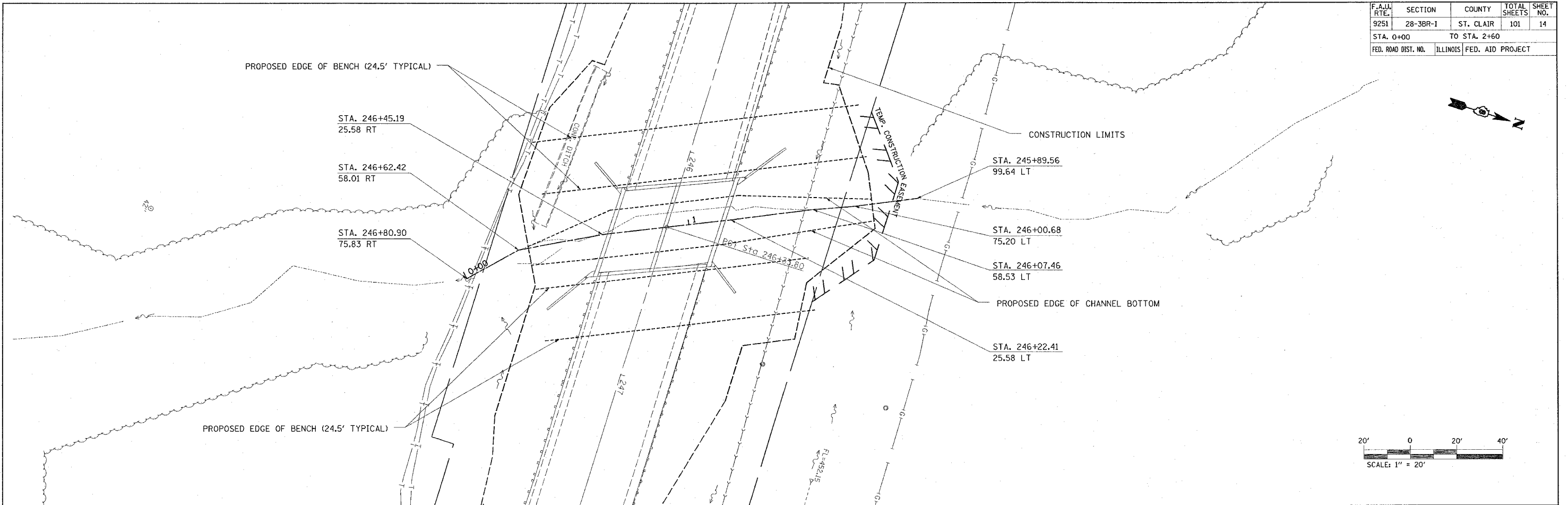
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STA. 0+00		TO STA. 2+60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

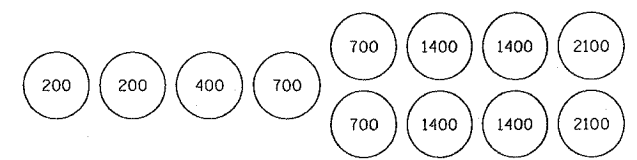
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SURVEYED	
ALIGNED	
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BY	
DATE	

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DATE	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	15
STA. 241+50		TO STA. 247+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



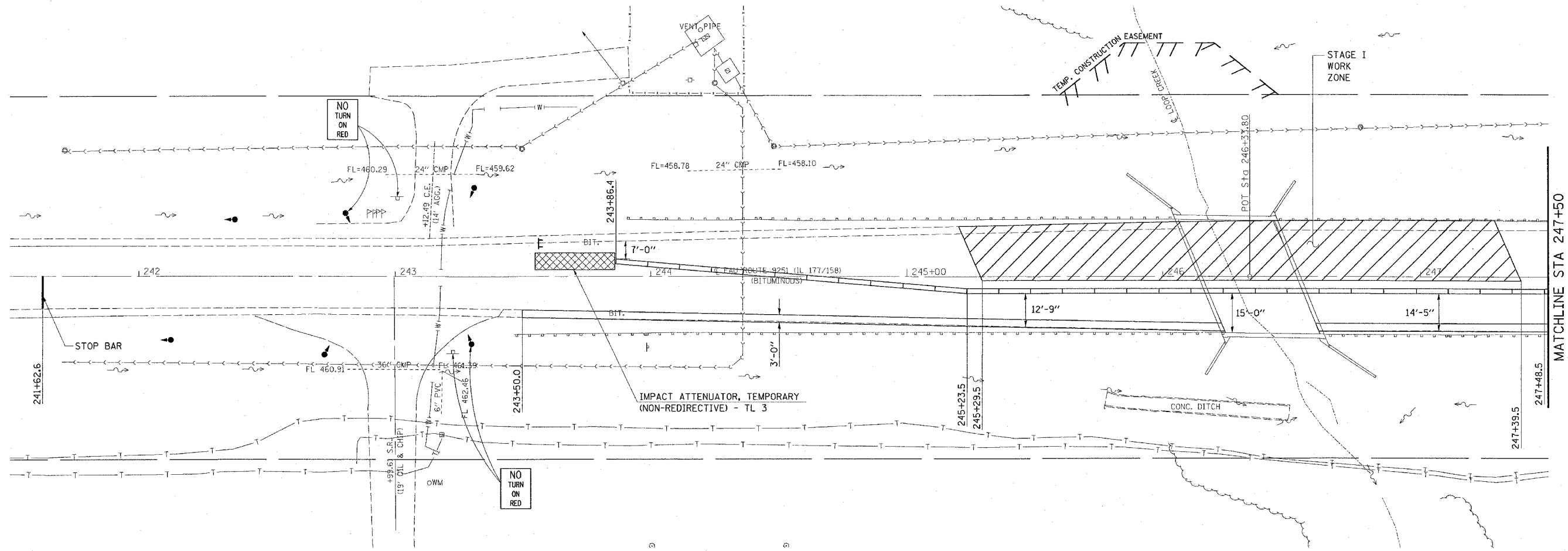
SAND MODULE IMPACT ATTENUATOR LAYOUT (IF OPTION USED)

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLAN	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK	CHECKED	
NO. _____	BY _____	
ADD. FILE NAME		



SEQUENCE OF CONSTRUCTION - STAGE I:

- PLACE 3.0' "BITUMINOUS BASE COURSE, SUPERPAVE, 9 1/2 INCH" ON BOTH ENDS OF THE STRUCTURE 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.
- REMOVE LEFT TURN LANE PAVEMENT MARKINGS.
- PLACE 500 FT TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATORS, TEMPORARY.
- SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.








REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION
 FAU ROUTE 9251
 SECTION 28-3BR-I
 ST. CLAIR COUNTY
 SN 082-0057(E) 0398(P)
 DRAWN BY:
 PLOT DATE: 3/22/2006

3/22/2006
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 REF-005770w.stp

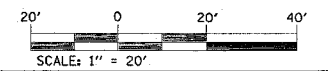
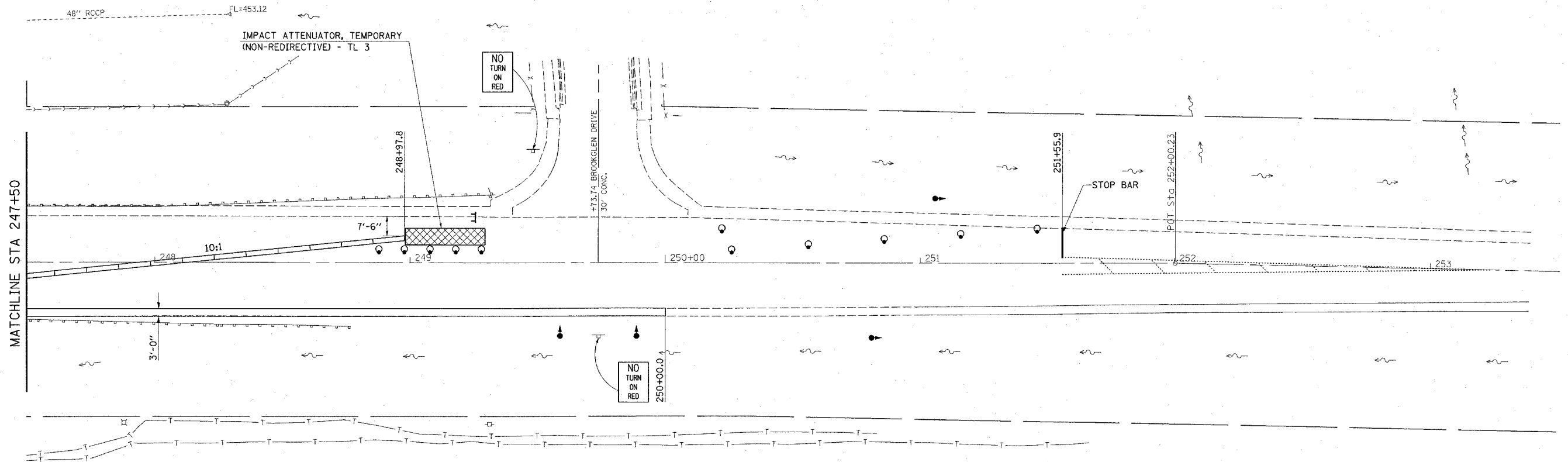
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	16
STA. 247+50		TO STA. 253+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLAN	REVISION	DATE
NO.	DESCRIPTION	
	ALIGNED CHECKED	
	PLOTTED	
	CADD FILE NAME	



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION

FAU ROUTE 9251
SECTION 28-3BR-1
ST. CLAIR COUNTY
SN 082-0057(E) 0398(P)

REVISIONS	
NAME	DATE






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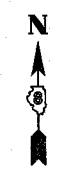
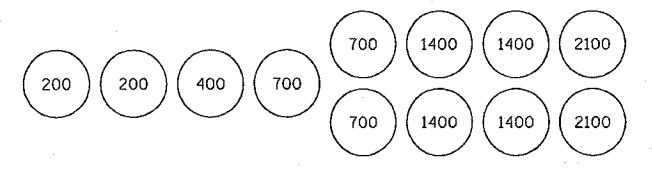
PLOT DATE: *DATE-TIME*

DATE
DATE-TIME
REF-0057
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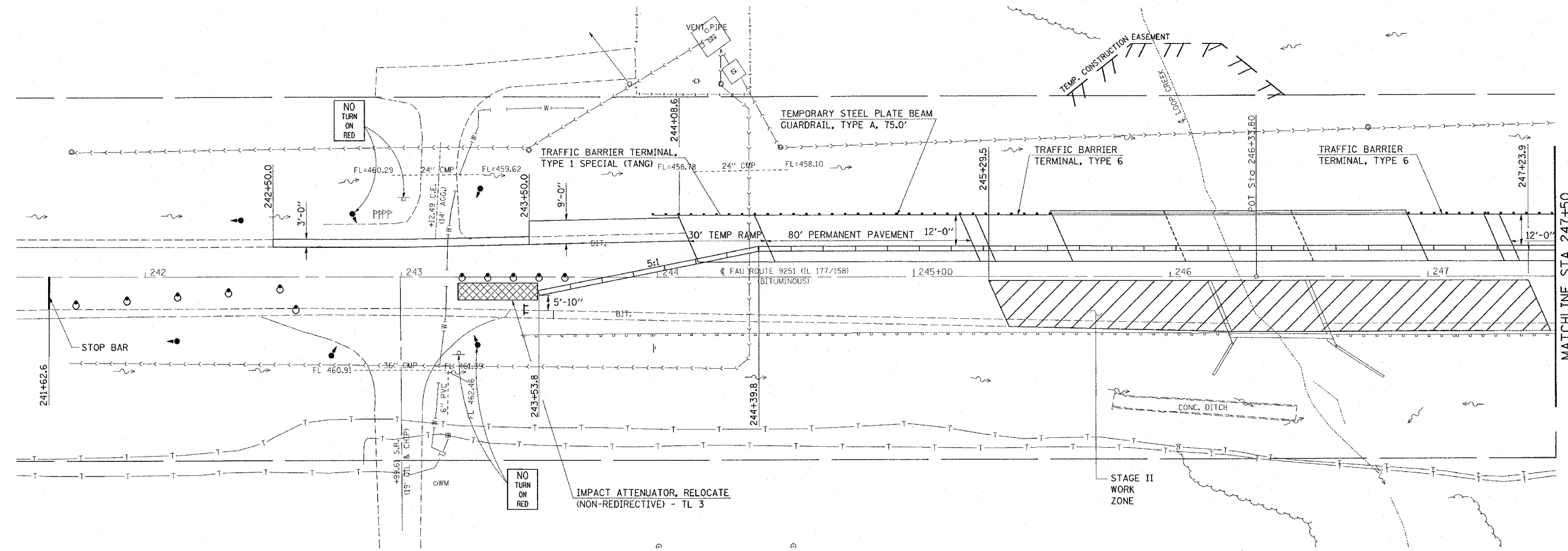
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	17
STA. 241+50		TO STA. 247+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	RT. OF WAY CHECKED		
	ADJUSTMENT CHECKED		
	PAID FILE NAME		



SEQUENCE OF CONSTRUCTION - STAGE II:

PLACE 80 FT PERMANENT PAVEMENT ON BOTH ENDS OF THE STRUCTURE. PERMANENT PAVEMENT SHALL BE BINDER ONLY, LEAVING THE ROADWAY 1.5 INCHES LOWER AT THE CONNECTOR. PLACE 5 FT TEMPORARY RAMP AT CONNECTOR. TAPER END OF BINDER TO 9 INCHES THICK AND PLACE 30 FT TEMPORARY RAMP. SEE TEMPORARY RAMP DETAIL.

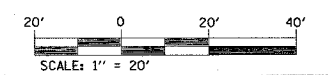
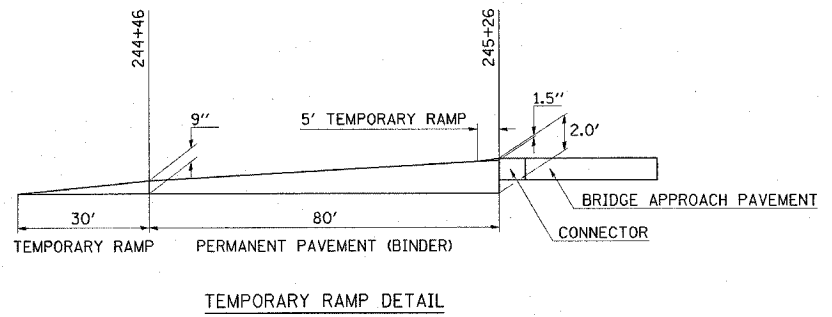
PLACE "BITUMINOUS BASE COURSE, SUPERPAVE 9 1/2 INCH" ON BOTH ENDS OF THE STRUCTURE. 3.0' FROM STA 242+50 LT TO STA 243+50 LT, 9.0' FROM STA 243+50 LT TO STA 244+08.6 LT, AND 6.0' FROM STA 248+38.1 LT TO STA 249+00 LT.

PLACE TRAFFIC BARRIER TERMINAL, TYPE 1 AND TYPE 6 AND TEMPORARY GUARDRAIL ON BOTH ENDS OF STRUCTURE.

RELOCATE 500 FT AND PLACE ADDITIONAL 112.5 FT OF TEMPORARY CONCRETE BARRIER AND RELOCATE 2 EACH IMPACT ATTENUATORS.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

AFTER STRUCTURE IS COMPLETE, REMOVE BARRIER AND PAVE STAGE II IN THE SAME DAY. BARRELS MAY BE USED DURING PAVING IN PLACE OF THE CONCRETE BARRIER.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION






FAU ROUTE 9251
SECTION 28-3BR-I
ST. CLAIR COUNTY
SN 082-0057(E) 0398(P)

DRAWN BY:

3/22/2006
c:\p\o\sect\p2006\p10\p10a2\00a.dgn
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REF-00570000_0120

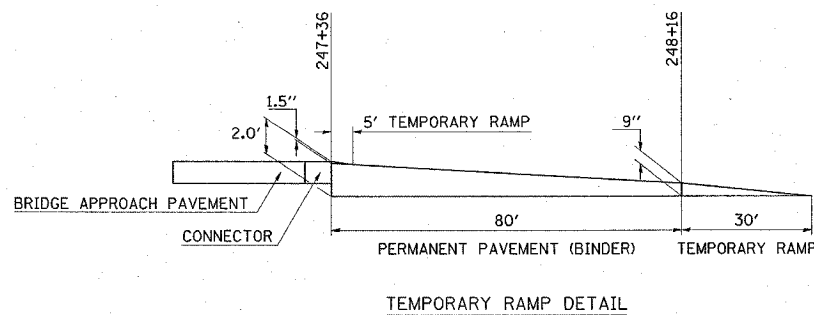
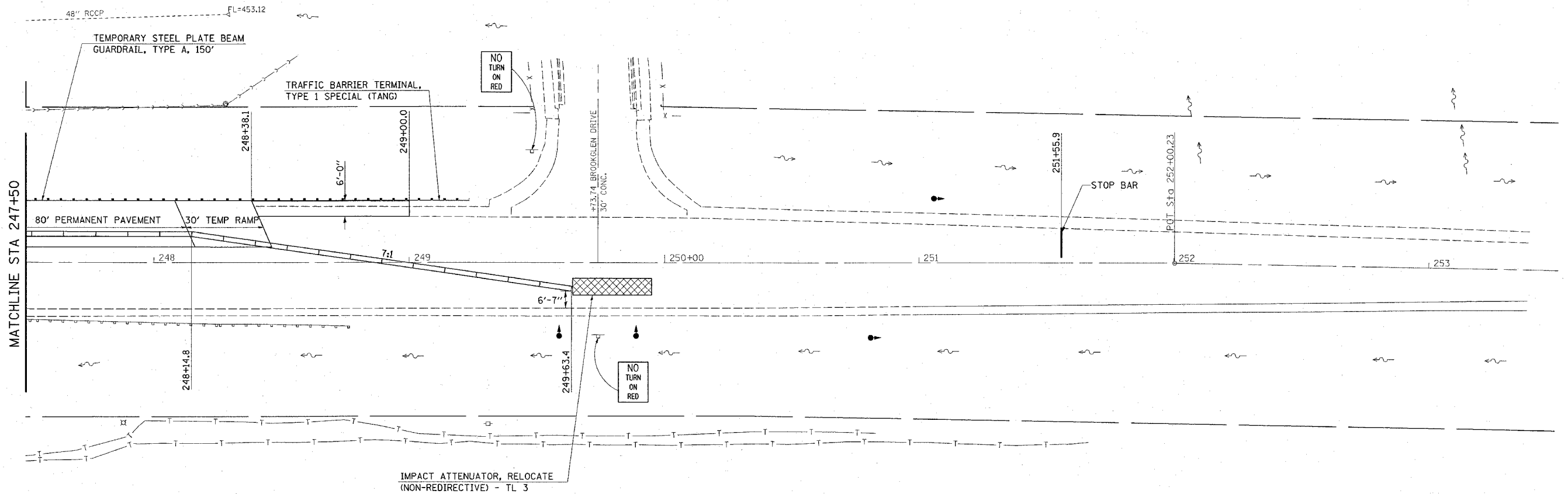
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	18
STA. 247+50		TO STA. 253+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLANNED BY	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
PLANNING NO.	
DESIGN NO.	
DATE	



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE II CONSTRUCTION

FAU ROUTE 9251
SECTION 28-3BR-I
ST. CLAIR COUNTY
SN 082-0057(E) 0398(P)

DRAWN BY:

PLOT DATE: *DATE-TIME*

REVISIONS	
NAME	DATE

DATE-TIME
DATE-TIME
DATE-TIME
DATE-TIME

COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PART OF THE W 1/2 OF SECTION 30, T1N, R7W, OF THE 3RD PM, ST CLAIR COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

FILE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
9251	28-3BR	ST CLAIR	101	119
STA.	TO STA.			
FED. ROAD DIST. NO.	ALWAYS	FED. ROAD PROJECT		

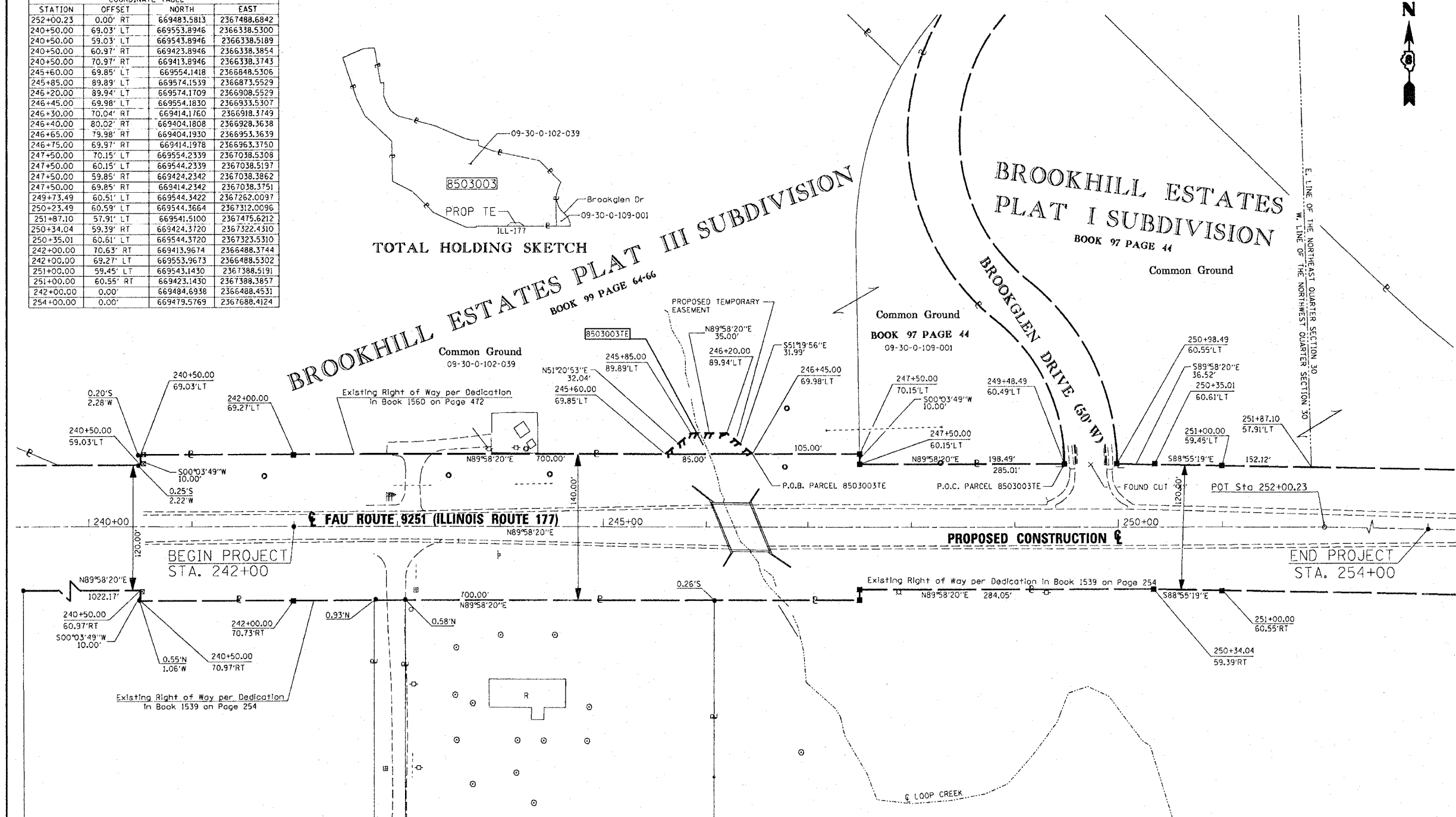
COORDINATE TABLE				
STATION	OFFSET		NORTH	EAST
252+00.23	0.00'	RT	669483.5813	2367488.6842
240+50.00	69.03'	LT	669553.8946	2366338.5300
240+50.00	59.03'	LT	669543.8946	2366338.5189
240+50.00	60.97'	RT	669423.8946	2366338.3854
240+50.00	70.97'	RT	669413.8946	2366338.3743
245+60.00	69.85'	LT	669554.1418	2366848.5306
245+85.00	89.89'	LT	669574.1539	2366873.5529
246+20.00	89.94'	LT	669574.1709	2366908.5529
246+45.00	69.98'	LT	669554.1830	2366933.5307
246+30.00	70.04'	RT	669414.1760	2366918.3749
246+40.00	80.02'	RT	669404.1808	2366928.3638
246+65.00	79.98'	RT	669404.1930	2366953.3639
246+75.00	69.97'	RT	669414.1978	2366963.3750
247+50.00	70.15'	LT	669554.2339	2367038.5308
247+50.00	60.15'	LT	669544.2339	2367038.5197
247+50.00	59.85'	RT	669424.2342	2367038.3862
247+50.00	69.85'	RT	669414.2342	2367038.3751
249+73.49	60.51'	LT	669544.3422	2367262.0037
250+23.49	60.59'	LT	669544.3664	2367312.0096
251+87.10	57.91'	LT	669541.5100	2367475.6212
250+34.04	59.39'	RT	669424.3720	2367322.4310
250+35.01	60.61'	LT	669544.3720	2367323.5310
242+00.00	70.63'	RT	669413.9674	2366488.3744
242+00.00	69.27'	LT	669553.9673	2366488.5302
251+00.00	59.45'	LT	669543.1430	2367388.5191
251+00.00	60.55'	RT	669423.1430	2367388.3857
242+00.00	0.00'		669484.6938	2366488.4531
254+00.00	0.00'		669479.5769	2367688.4124

TOTAL HOLDING SKETCH

BROOKHILL ESTATES PLAT III SUBDIVISION
BOOK 99 PAGE 64-66

BROOKHILL ESTATES
PLAT I SUBDIVISION
BOOK 97 PAGE 44

NO.	DATE	DESCRIPTION	BY



LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- MEASURED DIMENSION
- 121.45
- 123.45 (COMP)
- (123.45)
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 3/8 INCH IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING BUILDING

- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS)
COUNTY OF) SS

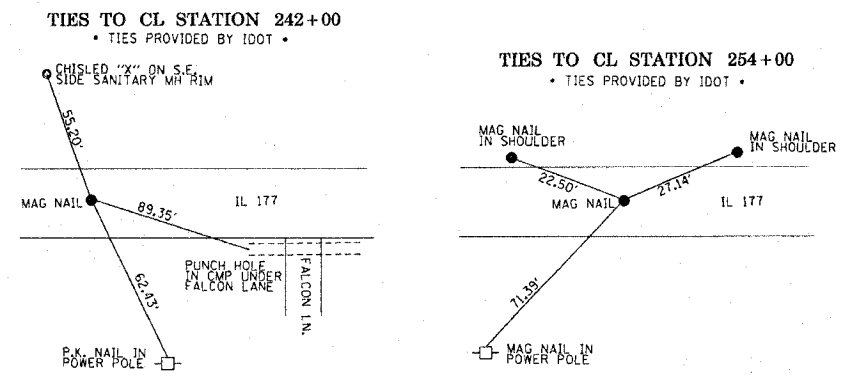
I, TERRY J. FELDMANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

TERRY J. FELDMANN, PLS NO. 2973
LICENSE EXPIRATION DATE: 11/30/2006



LOT 3 OF THE PARTITION PLAT OF EDWARD GAY'S LAND IN T1N, R7W
PB'F', PG 14



NOTE: TOTAL HOLDINGS FOR PARCEL 8503003 TAKEN FROM SUBDIVISION PLAT

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.		
8503003	BROOKHILL ESTATES HOMEOWNERS ASSOCIATION TITLE REPORT NO. SC-4822	24.62	1E 0.0275	1E 1,200	GRADING	09-30-0-102-039

LTR LAND SURVEYING, INC.
800 VANDALIA SUITE 200
COLLINGSVILLE, IL 62234
618-343-1370
PROFESSIONAL DESIGN #2324 # 124-00319

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9251 (IL 177)
SECTION 28-3BR-1
ST CLAIR COUNTY
JOB NO. R-98-003-05

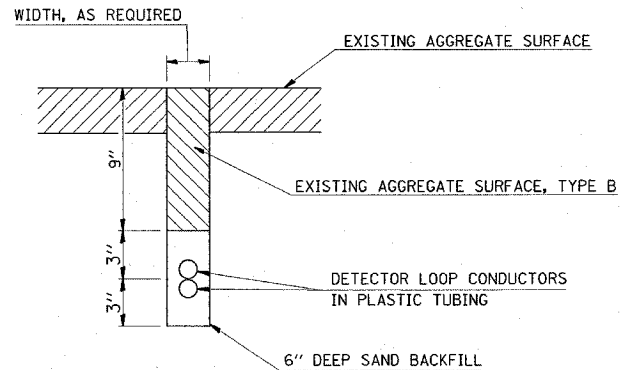
STATION 242+00 TO STATION 251+00
SCALE: 1" = 50'

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: MARCH 10, 2005
RIGHT OF WAY STAKING: APRIL 26, 2005

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198
SHEET 1 IS A COVER SHEET

REVISIONS:
DATE-TIME
BY
REF.
REF.

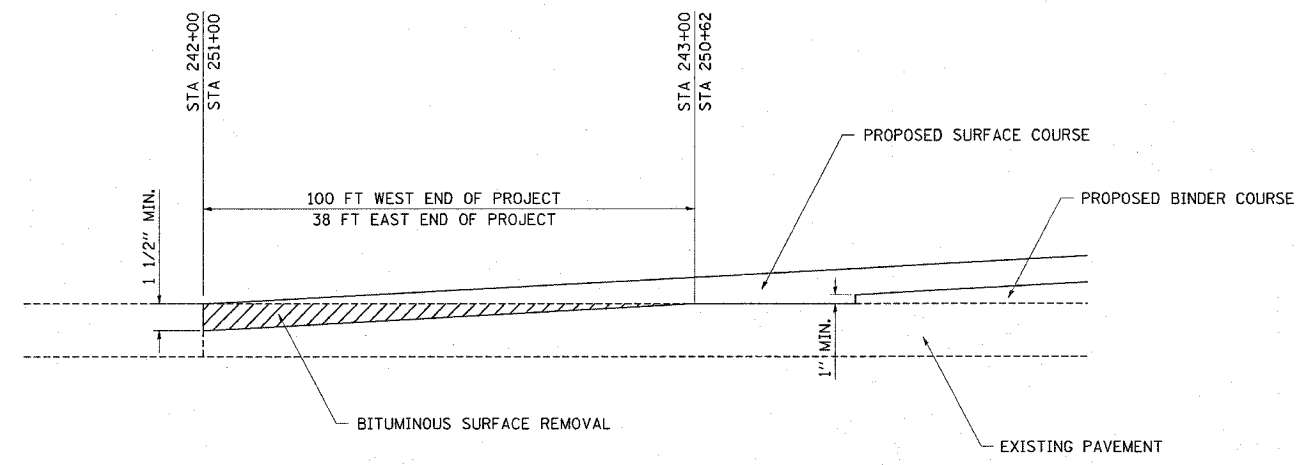
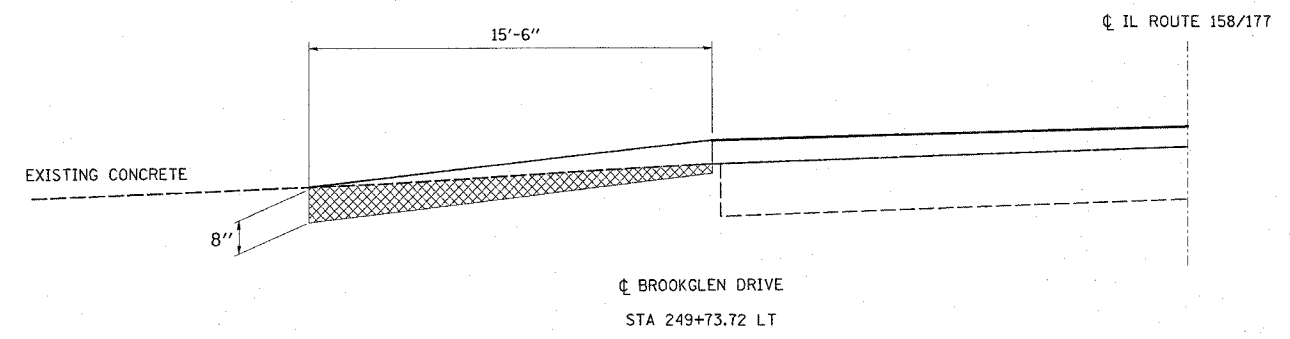
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



DETAIL
DETECTOR LOOP INSTALLED IN TRENCH

INSTALLATION IS TO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE PLANS AND SECTION 886 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS:

1. SLOTS ARE TO BE TRENCHED INSTEAD OF SAWED.
2. THIS WORK SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.



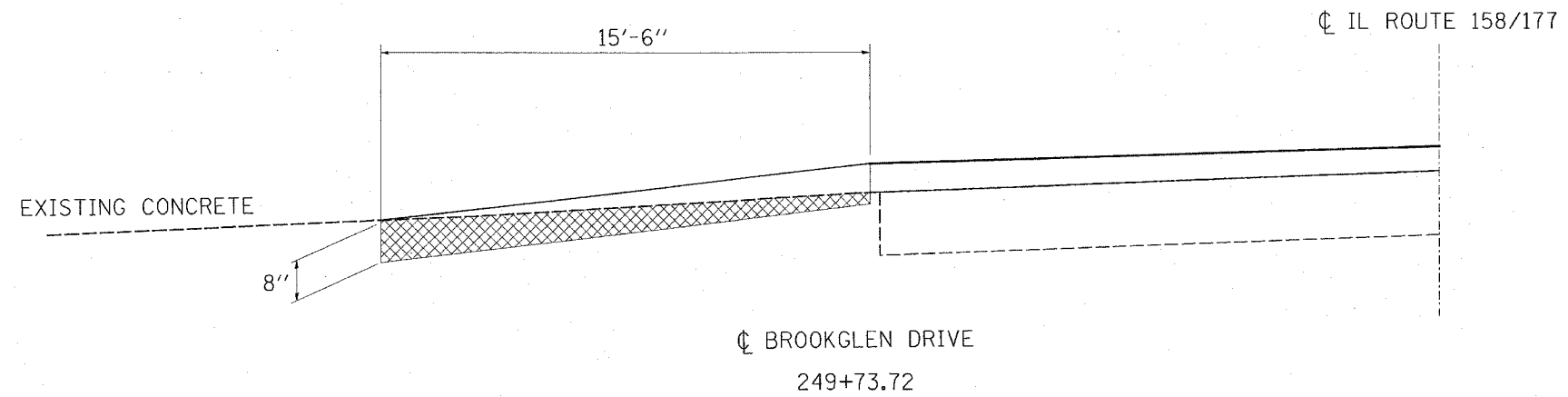
BUTT JOINT DETAIL
SN 082-0057(E) 0398(P)

PLOT DATE = 3/9/2006
FILE NAME = c:\projects\2408\plan\01n054.dgn
PLOT SCALE = 50.000 / IN.
REFERENCE = #REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS
FAU ROUTE 9251
SECTION 28-3BR-1
ST. CLAIR COUNTY
SN 082-0057(E) 0398(P)

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-3BR-I	ST. CLAIR	101	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 2/9/2006
 FILE NAME = c:\projects\ref2488\plan\plan954b.dgn
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = #REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

FAU ROUTE 9251
 SECTION 28-3BR-I
 ST. CLAIR COUNTY
 SN 082-0057(E) 0398(P)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	22
STA. 241+50		TO STA. 247+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STA 241+62.6 TO STA 245+34.8
STA 247+32.8 TO STA 247+50

STA 245+34.8 TO STA 247+32.8

THERMOPLASTIC PAVEMENT MARKING LINES

4" YELLOW 1118 FT
4" WHITE 777 FT
12" YELLOW 35 FT

POLYUREA PAVEMENT MARKING LINES

4" YELLOW 792 FT
4" WHITE 396 FT
12" YELLOW 103 FT

STA 241+62.6 TO STA 242+00.0

RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)

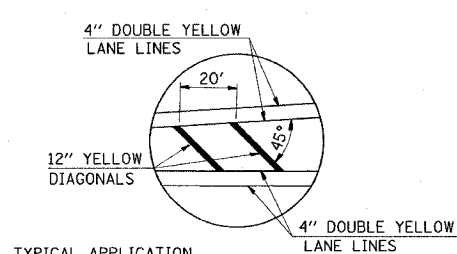
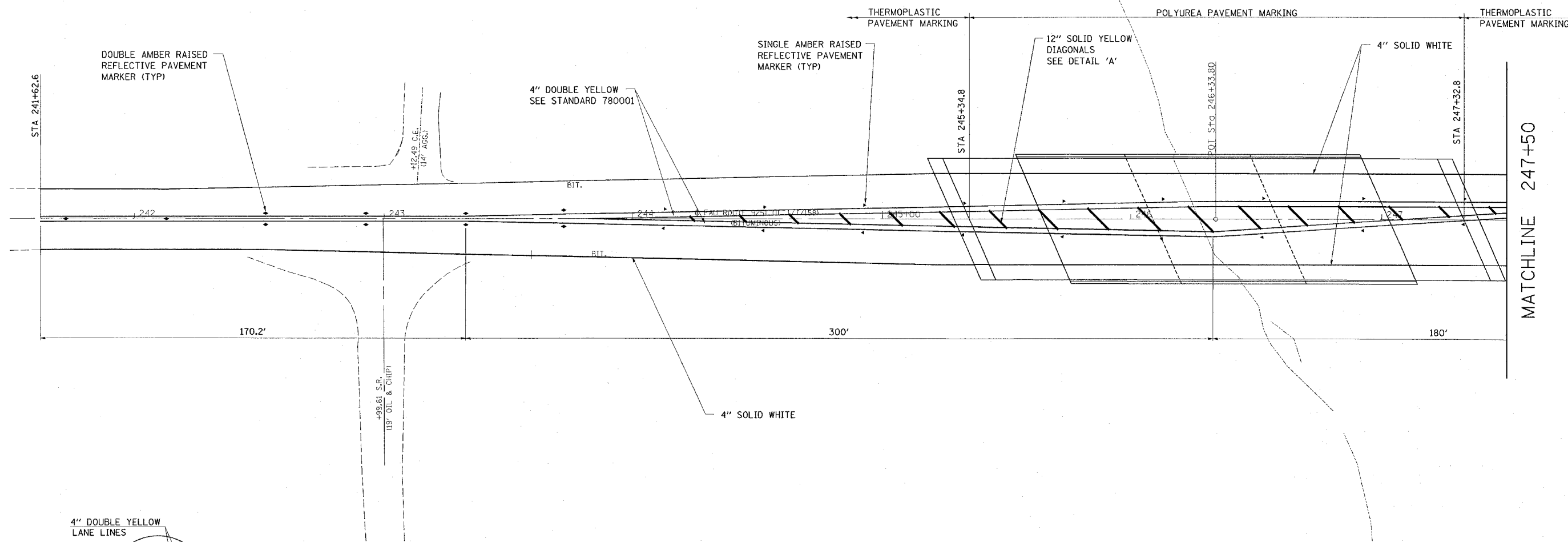
REPLACEMENT REFLECTOR
DOUBLE AMBER 1 EACH

SINGLE AMBER 10 EACH

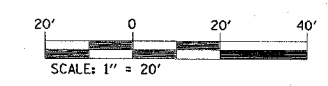
STA 242+00.0 TO STA 245+34.8
STA 247+32.8 TO STA 247+50

RAISED REFLECTIVE PAVEMENT MARKERS

DOUBLE AMBER 9 EACH
SINGLE AMBER 8 EACH



TYPICAL APPLICATION FOR MEDIAN STRIPING
DETAIL 'A'
NOT TO SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING
FAU ROUTE 9251
SECTION 28-3BR-I
ST. CLAIR COUNTY
SN 082-0057 (E) 0398(P)

DRAWN BY:

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REFERENCE = REF#

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	23
STA. 247+50		TO STA. 253+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA 247+50 TO STA 251+55.9

STA 247+50 TO STA 251+55.9

THERMOPLASTIC PAVEMENT MARKING LINES

THERMOPLASTIC PAVEMENT MARKING LINES - LETTERS & SYMBOLS

- 4" YELLOW 987 FT
- 4" WHITE 927 FT
- 12" YELLOW 74 FT

LEFT TURN ARROW 2 EACH @ 15.6 SQ FT = 31 SQ FT

STA 247+50.0 TO STA 251+00.0

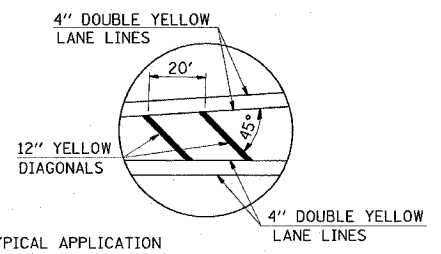
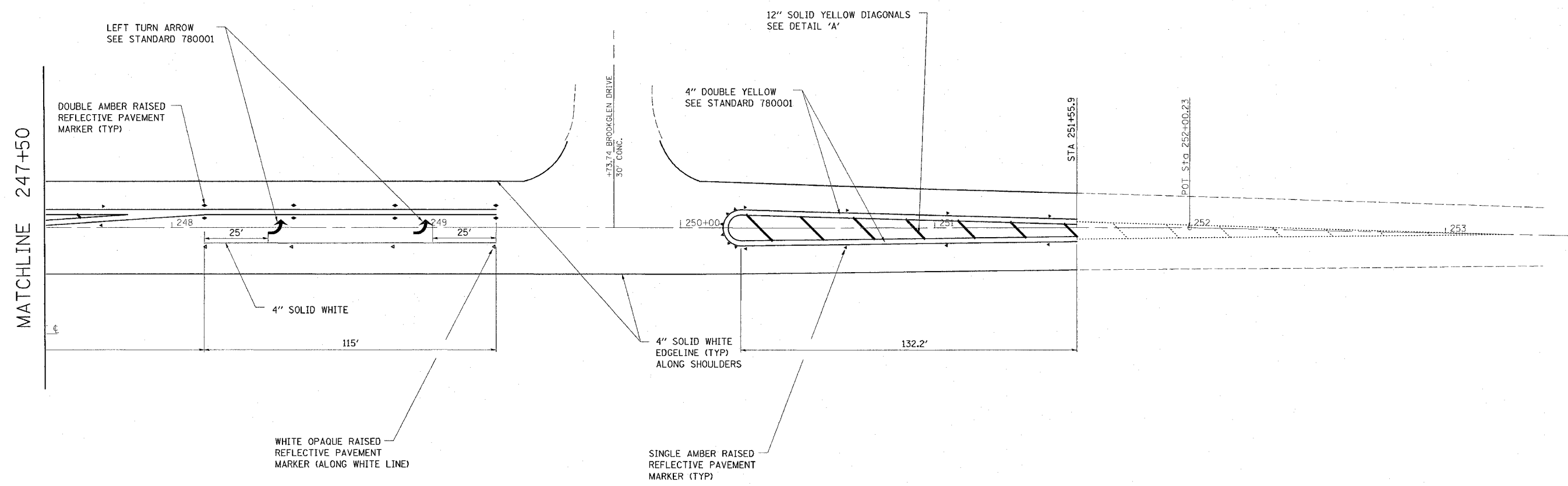
STA 251+00.0 TO STA 251+55.9

RAISED REFLECTIVE PAVEMENT MARKERS

REPLACEMENT REFLECTOR

- DOUBLE AMBER 8 EACH
- SINGLE AMBER 12 EACH
- WHITE OPAQUE 4 EACH

SINGLE AMBER 4 EACH



TYPICAL APPLICATION FOR MEDIAN STRIPING
DETAIL 'A'
NOT TO SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING
FAU ROUTE 9251
SECTION 28-3BR-I
ST. CLAIR COUNTY
SN 082-0057 (E) 0398(P)

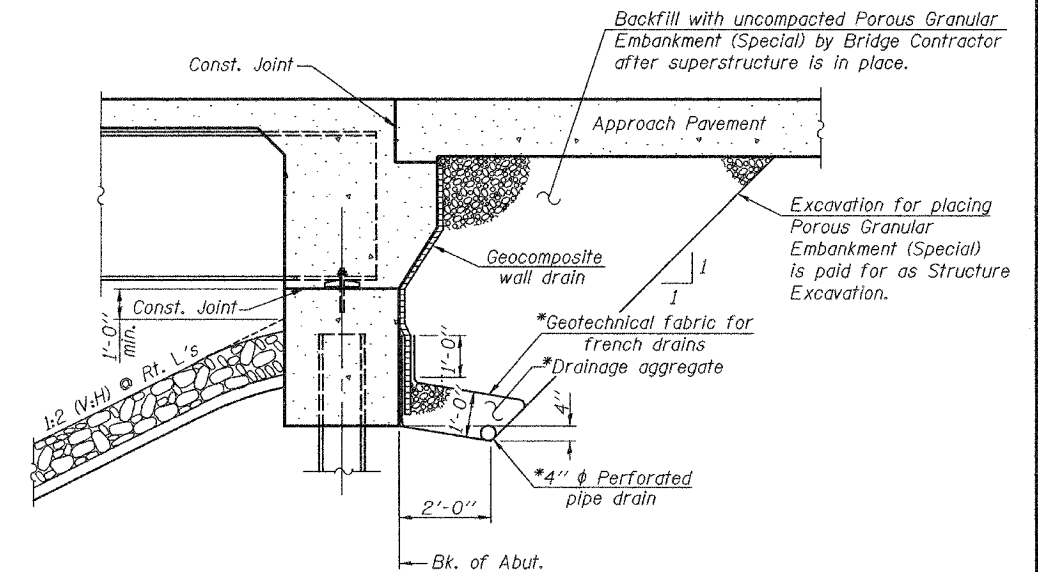
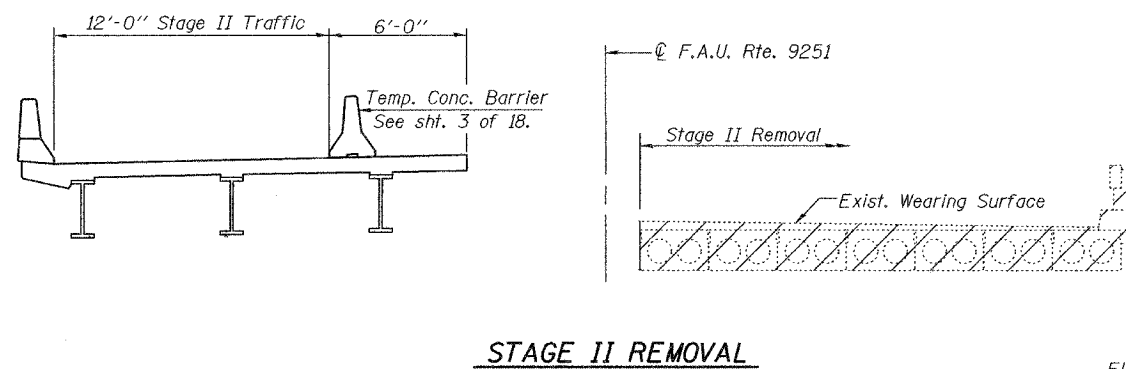
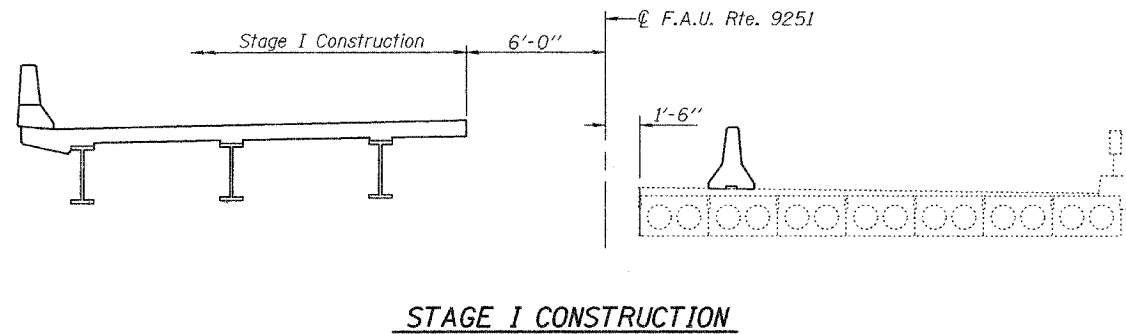
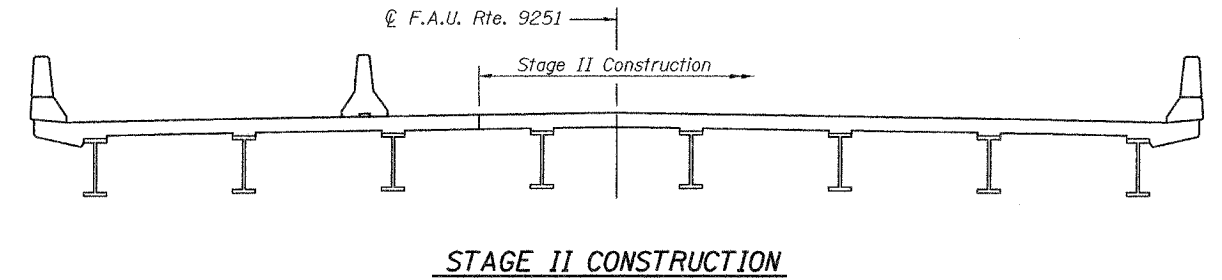
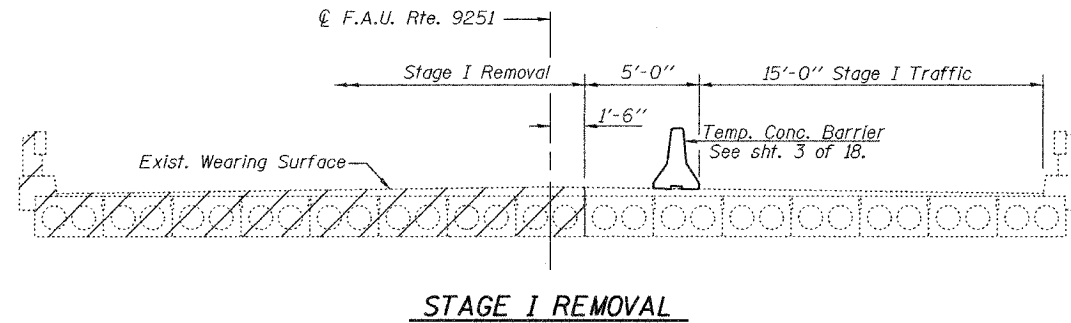
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 PLOT SCALE = 28.000' / 1"
 REFERENCE = IREF#

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	LENG.	SHEET	SHEET NO. 2 18 SHEETS
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	25	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #76394

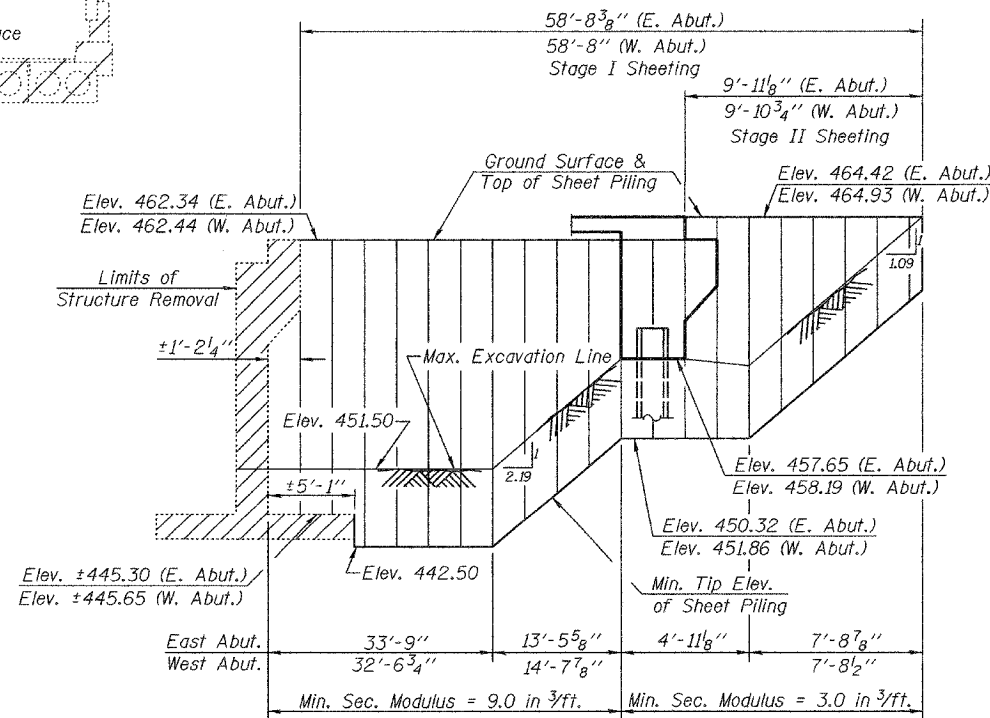


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures, 4".

Notes: 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 60110).

All staging sections are looking East.
For quantity of Temporary Concrete Barrier, See Roadway Plans. Hatched areas indicate Removal of Existing Structures.
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.



TEMPORARY SHEET PILING

(Slopes and distance shown along alignment of sheeting)

STAGE CONSTRUCTION DETAILS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

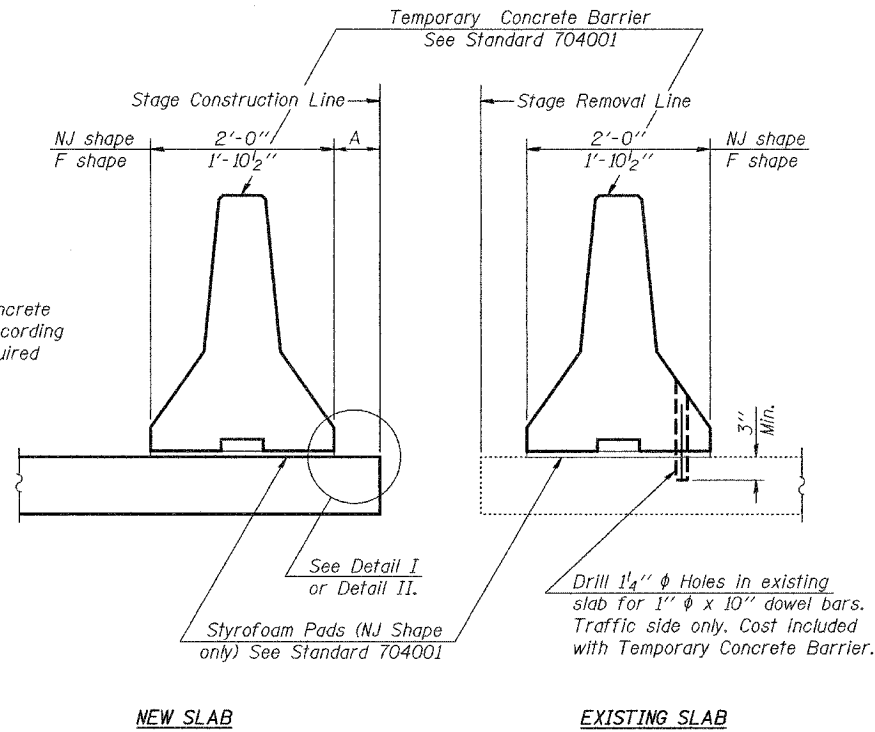
DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

March 16, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

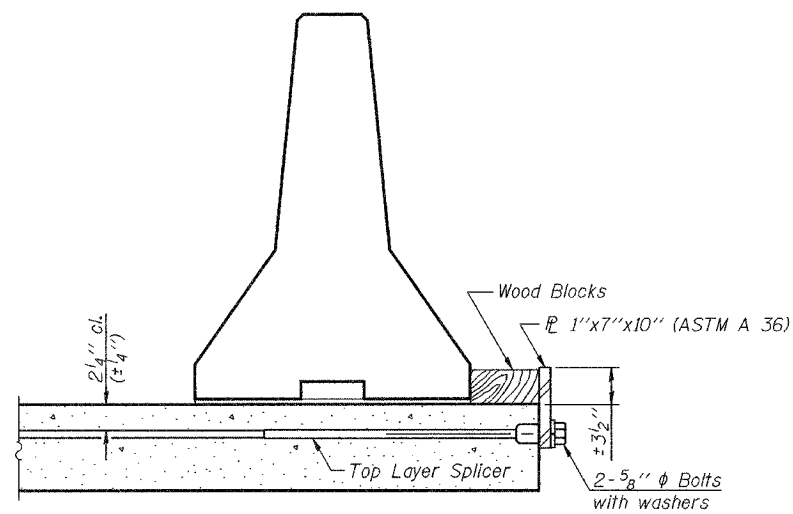
Contract #76394



SECTION THRU SLAB

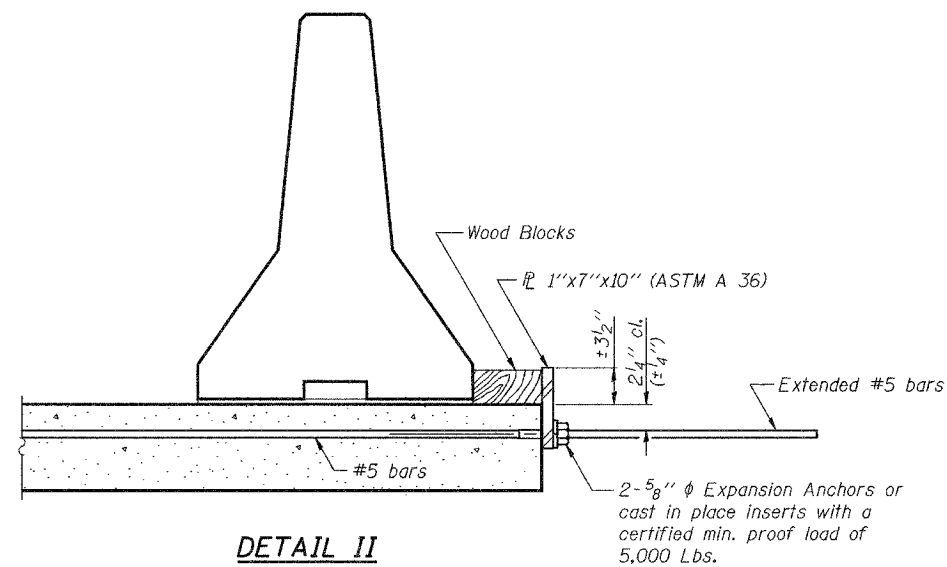
NOTES

- 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 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.



DETAIL I

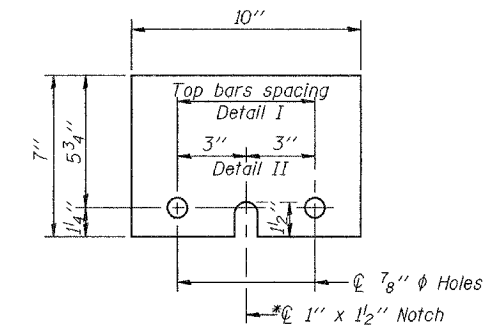
The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" 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.

DETAIL I



1" x 7" x 10"

*Required only with Detail II

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

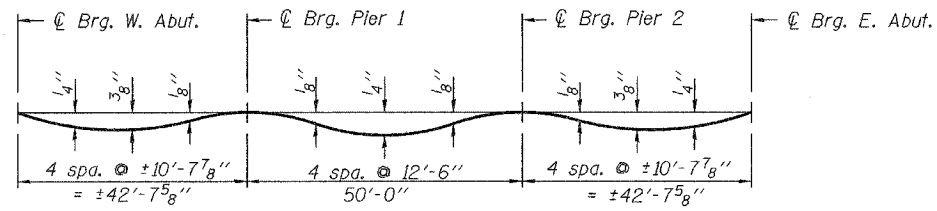
R-27 10-22-04

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.U. 9251	SECTION 28-3 BR-1	COUNTY ST. CLAIR	TOTAL SHEETS 101	SHEET NO. 27	SHEET NO. 4 18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #76394

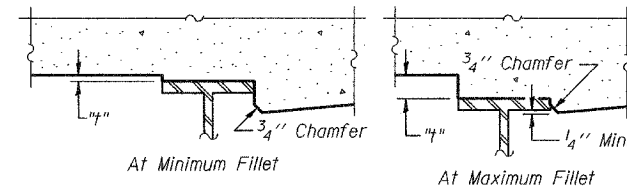


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

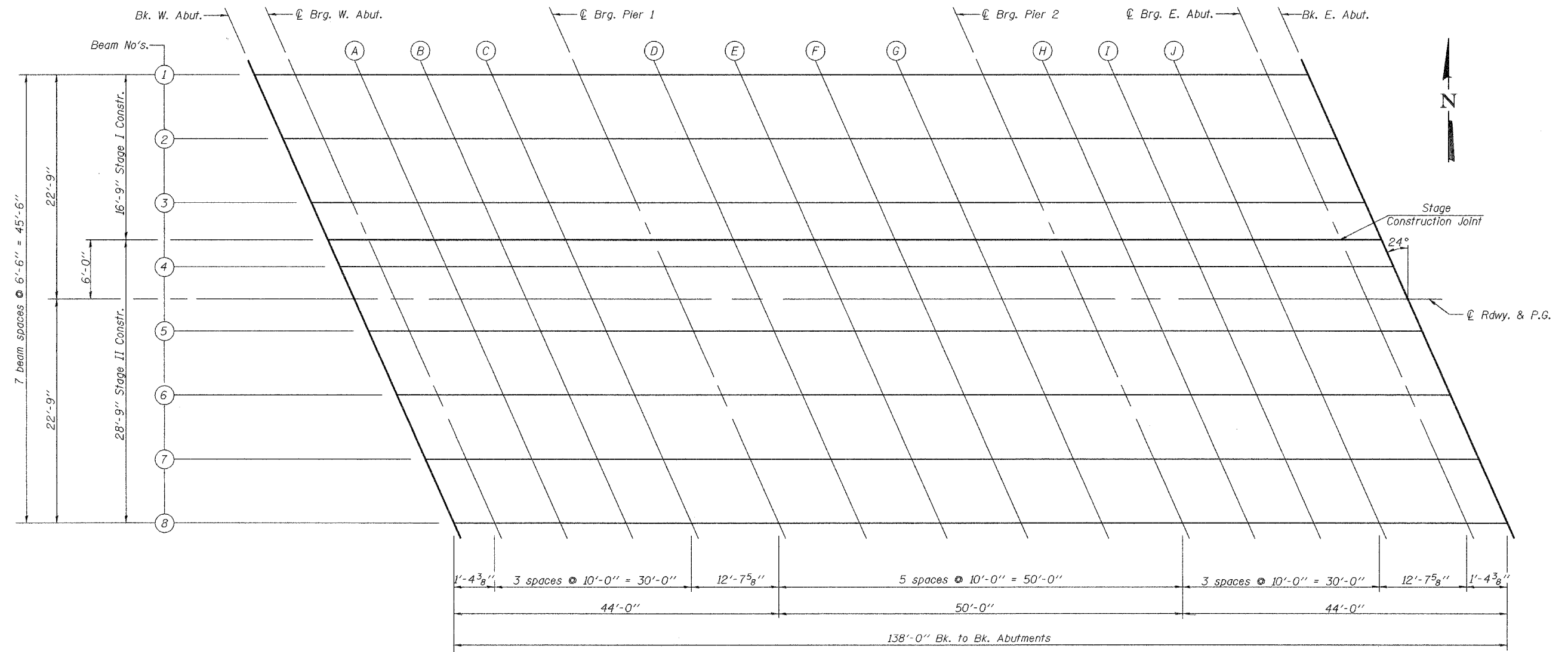
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 5 of 18.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 5 of 18, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006	Thomas J. Demagalki
PASSED		Ralph E. Anderson

TOP OF SLAB ELEVATIONS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	23
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 5
18 SHEETS
Contract #76394

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24554.67	-22.75	464.56	464.56
⊕ Brg W. Abut	24556.04	-22.75	464.56	464.56
A	24566.04	-22.75	464.54	464.57
B	24576.04	-22.75	464.53	464.56
C	24586.04	-22.75	464.51	464.53
⊕ Brg Pier 1	24598.67	-22.75	464.48	464.48
D	24608.67	-22.75	464.46	464.47
E	24618.67	-22.75	464.43	464.45
F	24628.67	-22.75	464.40	464.42
G	24638.67	-22.75	464.36	464.37
⊕ Brg Pier 2	24648.67	-22.75	464.32	464.32
H	24658.67	-22.75	464.28	464.29
I	24668.67	-22.75	464.23	464.26
J	24678.67	-22.75	464.18	464.21
⊕ Brg E. Abut	24691.30	-22.75	464.11	464.11
Bk. E. Abut	24692.67	-22.75	464.10	464.10

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24557.57	-16.25	464.68	464.68
⊕ Brg W. Abut	24558.93	-16.25	464.68	464.68
A	24568.93	-16.25	464.67	464.69
B	24578.93	-16.25	464.65	464.68
C	24588.93	-16.25	464.63	464.65
⊕ Brg Pier 1	24601.56	-16.25	464.60	464.60
D	24611.56	-16.25	464.58	464.59
E	24621.56	-16.25	464.55	464.57
F	24631.56	-16.25	464.51	464.53
G	24641.56	-16.25	464.47	464.49
⊕ Brg Pier 2	24651.56	-16.25	464.43	464.43
H	24661.56	-16.25	464.39	464.40
I	24671.56	-16.25	464.34	464.37
J	24681.56	-16.25	464.29	464.32
⊕ Brg E. Abut	24694.20	-16.25	464.22	464.22
Bk. E. Abut	24695.56	-16.25	464.21	464.21

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24560.46	-9.75	464.78	464.78
⊕ Brg W. Abut	24561.83	-9.75	464.78	464.78
A	24571.83	-9.75	464.76	464.79
B	24581.83	-9.75	464.75	464.78
C	24591.83	-9.75	464.73	464.75
⊕ Brg Pier 1	24604.46	-9.75	464.70	464.70
D	24614.46	-9.75	464.67	464.68
E	24624.46	-9.75	464.64	464.66
F	24634.46	-9.75	464.60	464.62
G	24644.46	-9.75	464.57	464.58
⊕ Brg Pier 2	24654.46	-9.75	464.52	464.52
H	24664.46	-9.75	464.48	464.49
I	24674.46	-9.75	464.43	464.46
J	24684.46	-9.75	464.38	464.40
⊕ Brg E. Abut	24697.09	-9.75	464.31	464.31
Bk. E. Abut	24698.46	-9.75	464.30	464.30

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24562.13	-6.00	464.84	464.84
⊕ Brg W. Abut	24563.50	-6.00	464.83	464.83
A	24573.50	-6.00	464.82	464.84
B	24583.50	-6.00	464.80	464.83
C	24593.50	-6.00	464.78	464.80
⊕ Brg Pier 1	24606.13	-6.00	464.75	464.75
D	24616.13	-6.00	464.72	464.73
E	24626.13	-6.00	464.69	464.71
F	24636.13	-6.00	464.66	464.68
G	24646.13	-6.00	464.62	464.63
⊕ Brg Pier 2	24656.13	-6.00	464.57	464.57
H	24666.13	-6.00	464.53	464.54
I	24676.13	-6.00	464.48	464.51
J	24686.13	-6.00	464.43	464.45
⊕ Brg E. Abut	24698.76	-6.00	464.36	464.36
Bk. E. Abut	24700.13	-6.00	464.35	464.35

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24563.35	-3.25	464.88	464.88
⊕ Brg W. Abut	24564.72	-3.25	464.88	464.88
A	24574.72	-3.25	464.86	464.88
B	24584.72	-3.25	464.84	464.87
C	24594.72	-3.25	464.82	464.84
⊕ Brg Pier 1	24607.35	-3.25	464.79	464.79
D	24617.35	-3.25	464.76	464.77
E	24627.35	-3.25	464.73	464.75
F	24637.35	-3.25	464.69	464.71
G	24647.35	-3.25	464.65	464.67
⊕ Brg Pier 2	24657.35	-3.25	464.61	464.61
H	24667.35	-3.25	464.57	464.58
I	24677.35	-3.25	464.52	464.54
J	24687.35	-3.25	464.46	464.49
⊕ Brg E. Abut	24699.98	-3.25	464.39	464.39
Bk. E. Abut	24701.35	-3.25	464.38	464.38

⊕ RDWY. & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24564.80	0.00	464.93	464.93
⊕ Brg W. Abut	24566.17	0.00	464.92	464.92
A	24576.17	0.00	464.91	464.93
B	24586.17	0.00	464.89	464.92
C	24596.17	0.00	464.87	464.89
⊕ Brg Pier 1	24608.80	0.00	464.84	464.84
D	24618.80	0.00	464.81	464.82
E	24628.80	0.00	464.78	464.80
F	24638.80	0.00	464.74	464.76
G	24648.80	0.00	464.70	464.71
⊕ Brg Pier 2	24658.80	0.00	464.66	464.66
H	24668.80	0.00	464.61	464.62
I	24678.80	0.00	464.56	464.59
J	24688.80	0.00	464.51	464.53
⊕ Brg E. Abut	24701.43	0.00	464.43	464.43
Bk. E. Abut	24702.80	0.00	464.42	464.42

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24566.25	3.25	464.87	464.87
⊕ Brg W. Abut	24567.61	3.25	464.87	464.87
A	24577.61	3.25	464.86	464.88
B	24587.61	3.25	464.84	464.87
C	24597.61	3.25	464.82	464.83
⊕ Brg Pier 1	24610.25	3.25	464.78	464.78
D	24620.25	3.25	464.75	464.76
E	24630.25	3.25	464.72	464.74
F	24640.25	3.25	464.68	464.70
G	24650.25	3.25	464.64	464.65
⊕ Brg Pier 2	24660.25	3.25	464.60	464.60
H	24670.25	3.25	464.55	464.57
I	24680.25	3.25	464.50	464.53
J	24690.25	3.25	464.45	464.47
⊕ Brg E. Abut	24702.88	3.25	464.37	464.37
Bk. E. Abut	24704.25	3.25	464.37	464.37

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24569.14	9.75	464.77	464.77
⊕ Brg W. Abut	24570.51	9.75	464.77	464.77
A	24580.51	9.75	464.75	464.77
B	24590.51	9.75	464.73	464.76
C	24600.51	9.75	464.71	464.73
⊕ Brg Pier 1	24613.14	9.75	464.67	464.67
D	24623.14	9.75	464.64	464.65
E	24633.14	9.75	464.61	464.63
F	24643.14	9.75	464.57	464.59
G	24653.14	9.75	464.53	464.54
⊕ Brg Pier 2	24663.14	9.75	464.48	464.48
H	24673.14	9.75	464.44	464.45
I	24683.14	9.75	464.39	464.41
J	24693.14	9.75	464.33	464.35
⊕ Brg E. Abut	24705.77	9.75	464.25	464.25
Bk. E. Abut	24707.14	9.75	464.25	464.25

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24572.03	16.25	464.66	464.66
⊕ Brg W. Abut	24573.40	16.25	464.66	464.66
A	24583.40	16.25	464.64	464.67
B	24593.40	16.25	464.62	464.65
C	24603.40	16.25	464.60	464.62
⊕ Brg Pier 1	24616.03	16.25	464.56	464.56
D	24626.03	16.25	464.53	464.54
E	24636.03	16.25	464.50	464.52
F	24646.03	16.25	464.46	464.48
G	24656.03	16.25	464.41	464.43
⊕ Brg Pier 2	24666.03	16.25	464.37	464.37
H	24676.03	16.25	464.32	464.33
I	24686.03	16.25	464.27	464.29
J	24696.03	16.25	464.21	464.24
⊕ Brg E. Abut	24708.67	16.25	464.13	464.13
Bk. E. Abut	24710.03	16.25	464.13	464.13

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	24574.93	22.75	464.53	464.53
⊕ Brg W. Abut	24576.30	22.75	464.53	464.53
A	24586.30	22.75	464.51	464.53
B	24596.30	22.75	464.49	464.52
C	24606.30	22.75	464.46	464.48
⊕ Brg Pier 1	24618.93	22.75	464.43	464.43
D	24628.93	22.75	464.40	464.41
E	24638.93	22.75	464.36	464.38
F	24648.93	22.75	464.32	464.34
G	24658.93	22.75	464.28	464.29
⊕ Brg Pier 2	24668.93	22.75	464.23	464.23
H	24678.93	22.75	464.18	464.19
I	24688.93	22.75	464.12	464.15
J	24698.93	22.75	464.07	464.09
⊕ Brg E. Abut	24711.56	22.75	463.99	463.99
Bk. E. Abut	24712.93	22.75	463.98	463.98

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

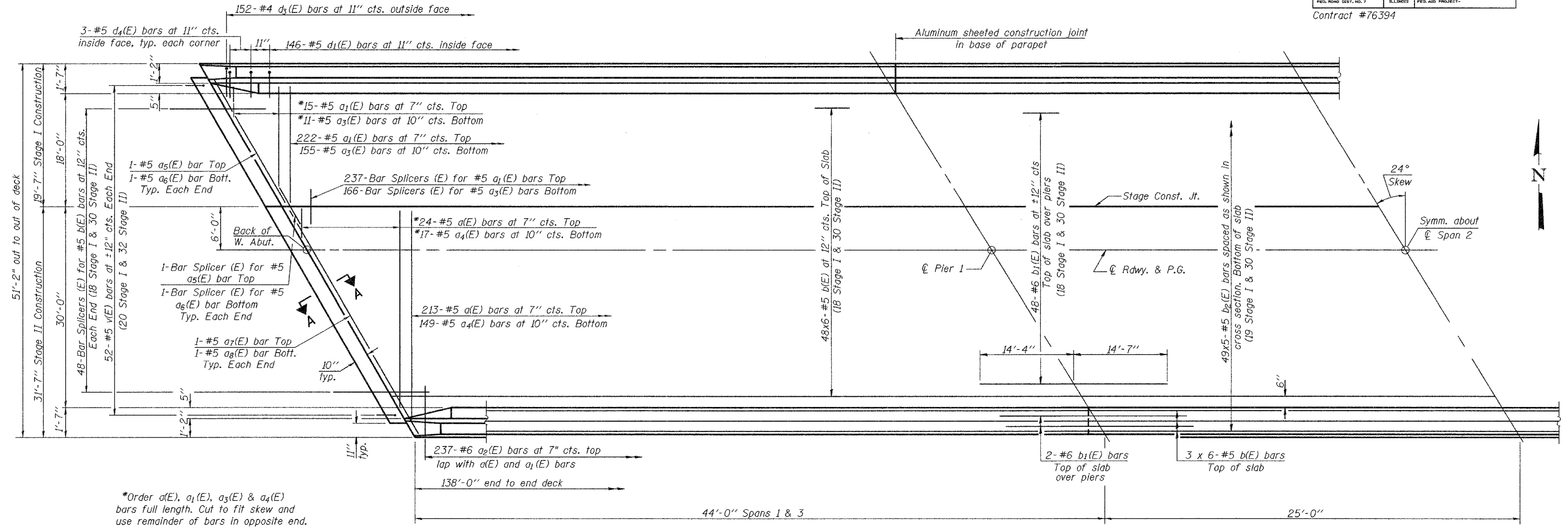
March 16, 2006
 EXAMINED *Thomas J. Domagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 6 18 SHEETS
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	29	
FED. ROAD DIST. NO. 7	BLINDS	FED. AID PROJECT			

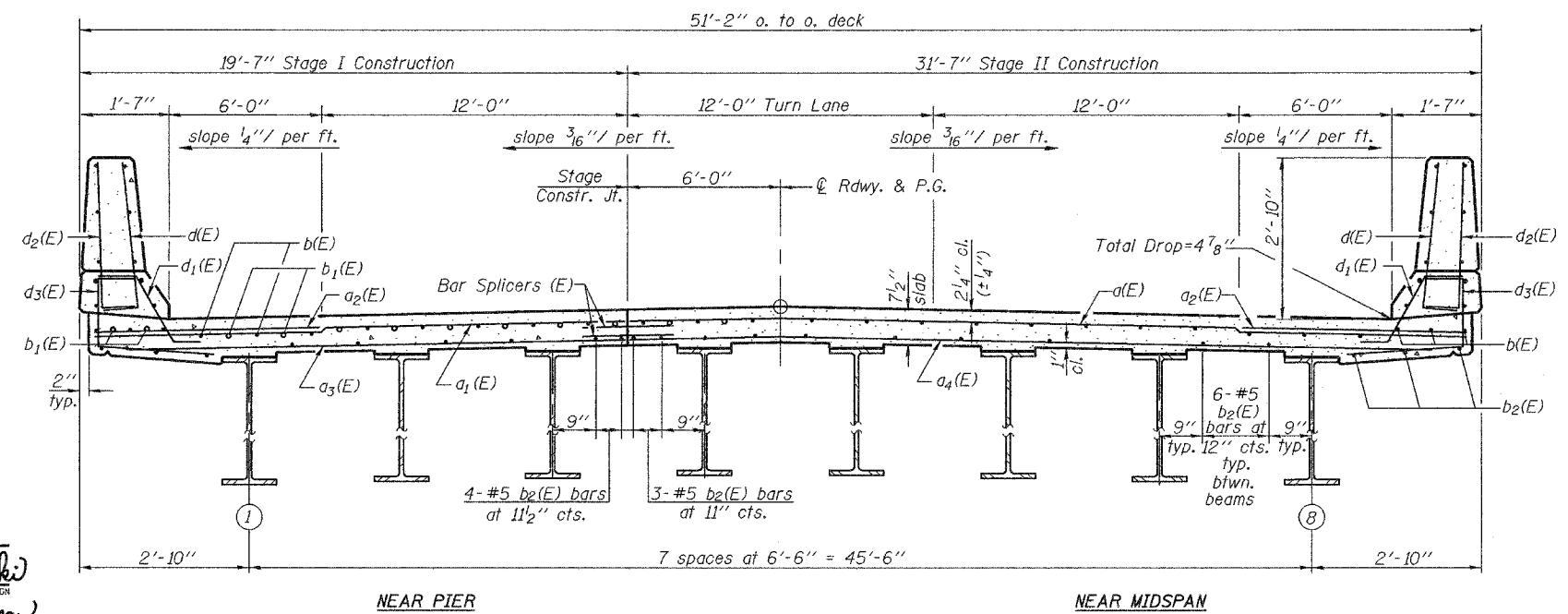
Contract #76394



*Order a(E), a₁(E), a₃(E) & a₄(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

HALF PLAN

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



CROSS SECTION
(Looking East)

Notes:
 See Sheet 7 of 18 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 3 x 6-#5 etc. indicates 3 lines of bars with 6 lengths per line.
 See Sheet 8 of 18 for Section A-A and diaphragm details.
 See Sheet 16 of 18 for Bar Splicer details.
 See Sheet 7 of 18 for details of v(E) bars.
 See Sheet 7 of 18 for parapet reinforcement.

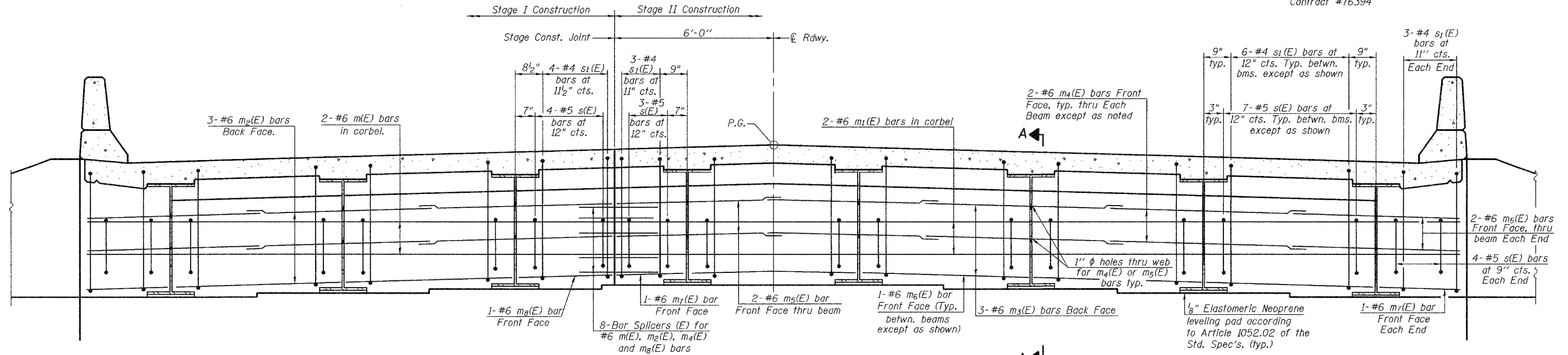
DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

March 16, 2006
 EXAMINED Thomas J. Domagalak
 ENGINEER OF BRIDGE DESIGN
 PASSED Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
 F.A.U. ROUTE 9251 - SECTION 28-3BR-1
 ST. CLAIR COUNTY
 STATION 246+33.80
 STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

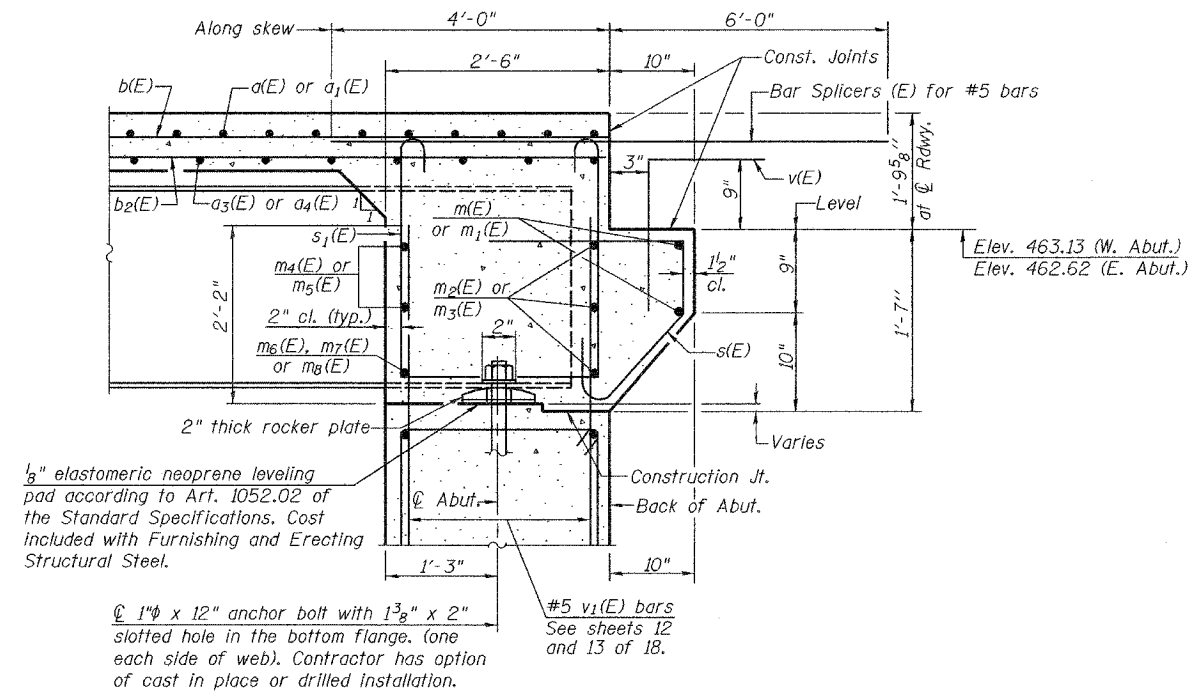
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F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	31	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #76394		



DIAPHRAGM ELEVATION AT ABUTMENT
(Looking East at East Abut. shown-West Abut. similar)

MIN. BAR LAP
#6 bar = 2'-9"

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 18.
Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 18.
For details of bars s(E) & s₁(E) see sheet 7 of 18.
For anchor bolt details see sheet 11 of 18.
See sheet 16 of 18 for bar splicer details.
See sheet 10 of 18 for holes thru web for m₄(E) and m₅(E) bars.
The s(E) and s₁(E) bars shall be placed parallel to the to the beams. Spacing for these bars shall be at right angles to the beams.



SECTION A-A
(Dimensions at Right L's except as noted)

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

March 16, 2006

EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN

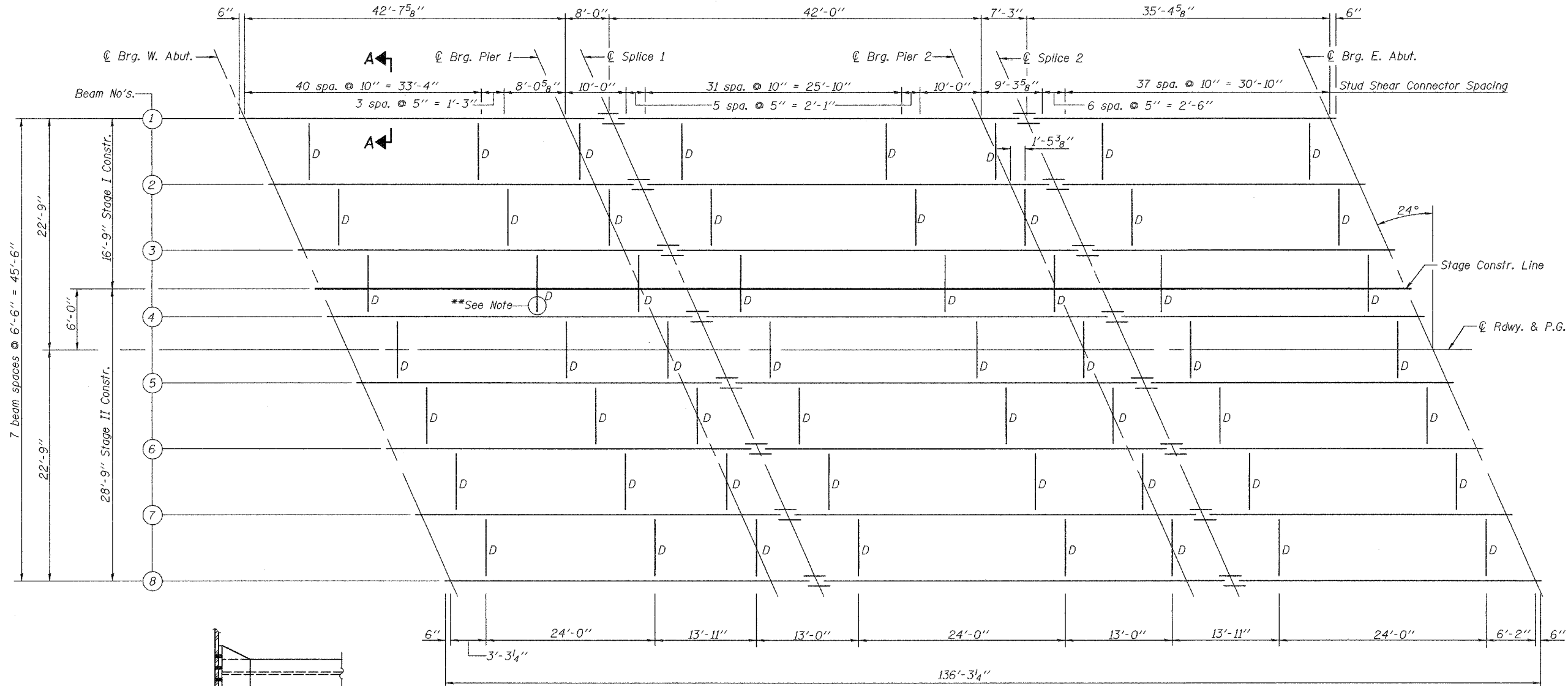
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.U. 9251	SECTION 28-3 BR-I	COUNTY ST. CLAIR	TOTAL SHEETS 101	SHEET NO. 32	SHEET NO. 9 18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract #76394



FRAMING PLAN

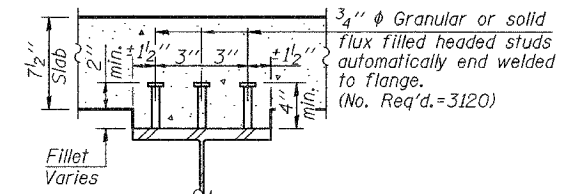
All beams shall be W24x76 AASHTO M270, Grade 50 (NTR)

**Use 1 1/2" x 12" vertical slotted holes in top and bottom angles at North side of Beam 4 only, except at Piers. Provide 1 5/16" plate washers for slotted holes. The bolts for slotted holes in angles shall only be finger tightened prior to the deck pour for Stage II Construction. The bolts shall be fully tightened after completion of the deck pour for Stage II Construction.

***TOP OF BEAM ELEVATIONS**

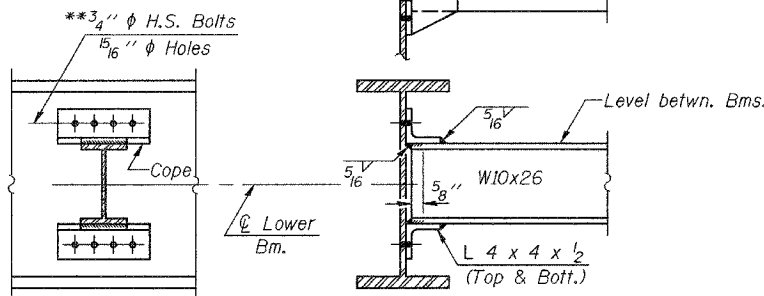
Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. E. Abut.
Beam 1	463.89	463.78	463.75	463.61	463.58	463.45
Beam 2	464.01	463.89	463.87	463.72	463.69	463.55
Beam 3	464.11	463.99	463.96	463.81	463.78	463.64
Beam 4	464.21	464.08	464.06	463.90	463.87	463.72
Beam 5	464.21	464.07	464.05	463.89	463.86	463.71
Beam 6	464.10	463.96	463.94	463.77	463.74	463.59
Beam 7	463.99	463.85	463.83	463.66	463.63	463.47
Beam 8	463.86	463.72	463.69	463.52	463.48	463.32

*For fabrication use only.



SECTION A-A

STRUCTURAL STEEL
F.A.U. ROUTE 9251 - SECTION 28-3BR-I
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398



DIAPHRAGM D
(56 Required)

Notes: "NTR" denotes members to which Notch Toughness Requirements are applicable. Two hardened washers shall be required over all oversize holes for diaphragms.

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

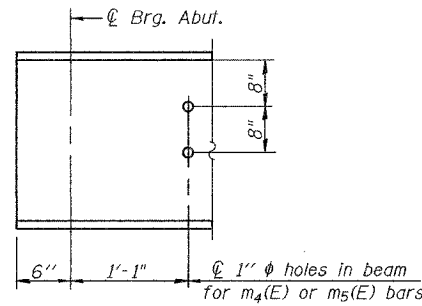
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 10
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	33	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394

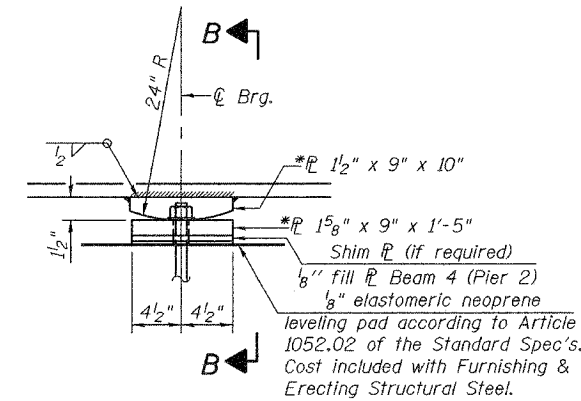
		0.4 Sp. 1 & 0.6 Sp. 3	Piers	0.5 Sp. 2
I_s	(in ⁴)	2100	2100	2100
$I_{c(m)}$	(in ⁴)	6777	—	6777
$I_{c(3n)}$	(in ⁴)	5092	—	5092
S_s	(in ³)	176	176	176
$S_{c(m)}$	(in ³)	282	—	282
$S_{c(3n)}$	(in ³)	256	—	256
DC1	(K/ft.)	0.705	0.705	0.705
M DC1	(K)	93	152	69
DC2	(K/ft.)	0.150	0.150	0.150
M DC2	(K)	23	24	23
DW	(K/ft.)	0.325	0.325	0.325
M DW	(K)	50	52	50
M ₄ +Imp	(K)	393	209	396
M _a (Strength I)	(K)	908	664	883
M _r	(K)	1423	—	1423
f _{sDC1}	(k.s.i.)	6.3	10.4	4.7
f _{sDC2}	(k.s.i.)	1.1	1.6	1.1
f _{sDW}	(k.s.i.)	2.3	3.5	2.3
f _{s(L+I)}	(k.s.i.)	21.7	18.5	21.9
f _{s(SER II)}	(k.s.i.)	31.4	34.0	30.0
f _s (Total)(Strength I)(k.s.i.)		—	45.2	—
V _{sr}	(K)	21.3	—	16.0

	Abuts.	Piers
R DC1 (K)	11.5	36.2
R DC2+DW (K)	8.3	23.8
R ₄ (K)	53.4	70.1
R Imp. (K)	14.2	15.3
R (Total) (K)	87.4	145.4

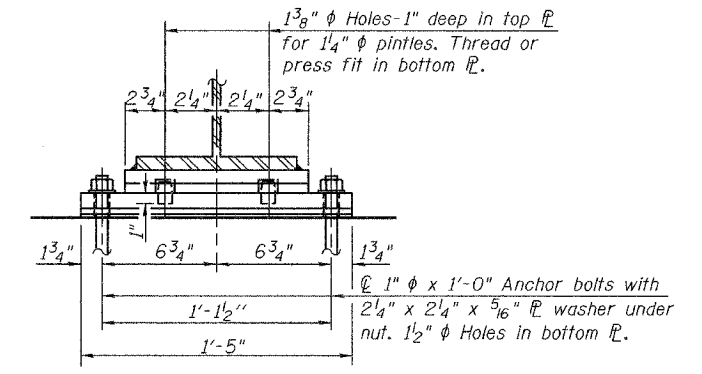
I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s due to non-composite loads.
 $I_{c(m)}$ and $S_{c(m)}$ are the moment of inertia and section modulus of the composite section used in computing f_s due to short-term composite loads.
 $I_{c(3n)}$ and $S_{c(3n)}$ are the moment of inertia and section modulus of the composite section used in computing f_s due to long-term composite loads.
DC1 is the dead load acting on the non-composite section.
DC2 is the dead load acting on the long-term composite section.
DW is the dead load acting on the long-term composite section due to wearing surface.
 M_a (Strength I) = 1.25 M(DC1+DC2) + 1.5M (DW) + 1.75 M(L+Imp).
 M_r is the full plastic moment capacity computed in accordance with 6.10.3.1.3 and 6.10.4.2.
 f_s (Service II) is the sum of the stresses due to DC1+DC2+DW+1.3(L+Imp).
 f_s (Total) (Strength I) (Non-compact section) is the sum of the stresses due to 1.25(DC1+DC2)+1.5DW+1.75(L+Imp).
 V_{sr} is the maximum shear range in the span 0.75 (L+Imp).



TYP. END OF BEAM ELEVATION



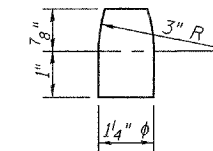
ELEVATION AT PIERS



SECTION B-B

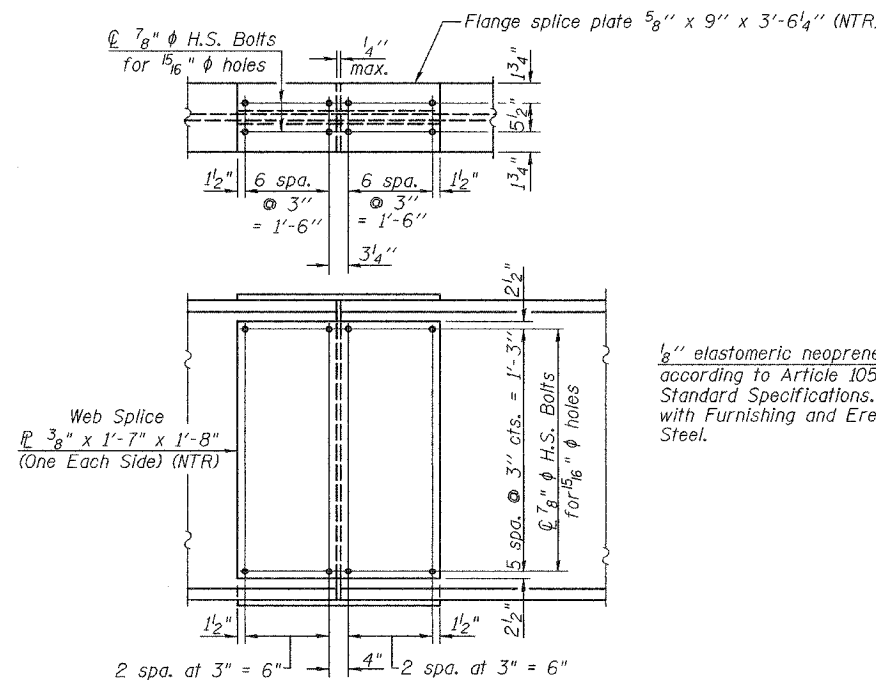
FIXED BEARING

(8 Required Pier 1)
(8 Required Pier 2)



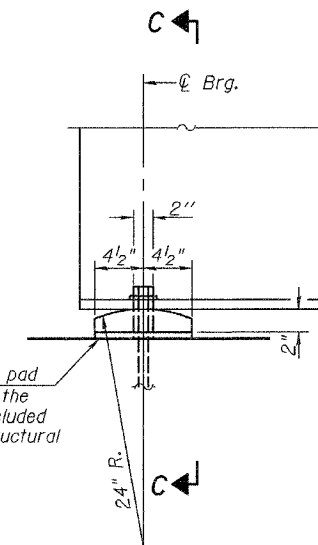
*PINTLE

Notes: All splice plates shall be AASHTO M 270 Grade 50.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Anchor Bolts at all bearings may be built into the masonry.
*All bearing plates and pintles shall be AASHTO M270 Grade 50.



SPlice DETAIL

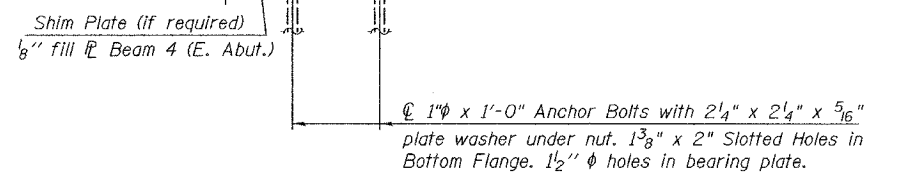
(16 Required)



ELEVATION AT ABUTMENTS

ABUTMENT BEARING

(16 Req'd.)



SECTION C-C

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006
PASSED	Thomas J. Demagallaki ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

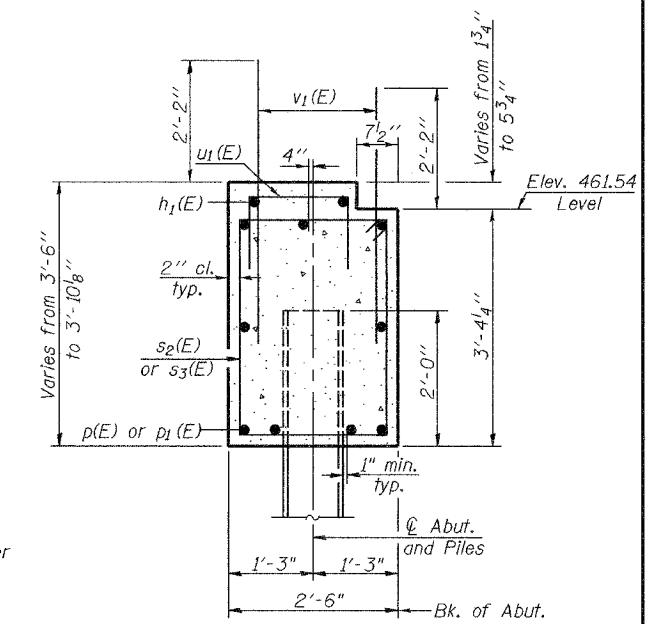
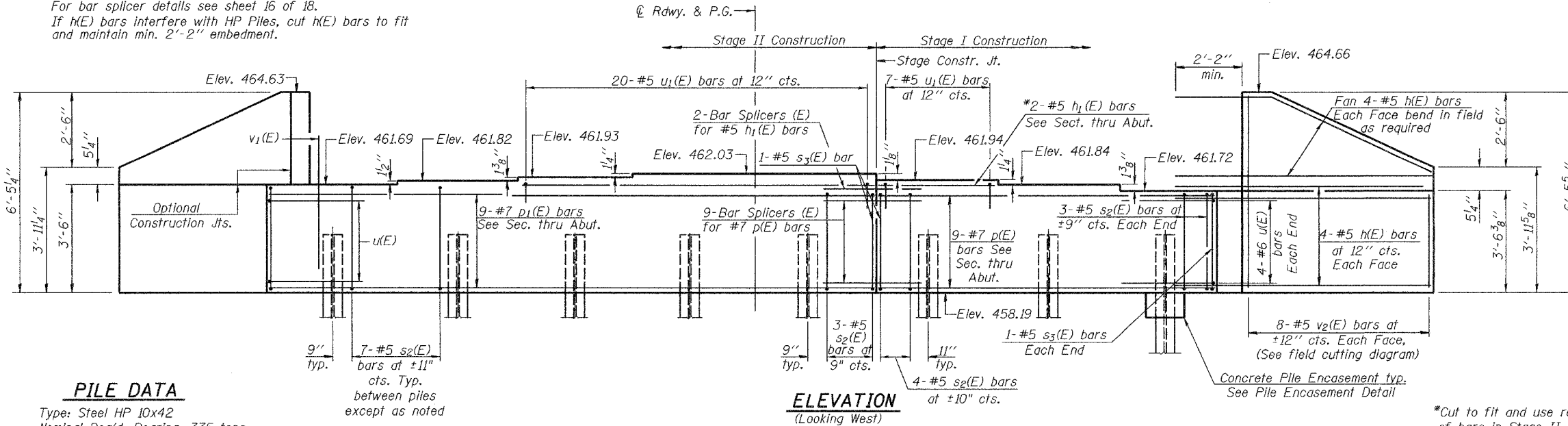
STRUCTURAL STEEL DETAILS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

Notes: Pour steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 For anchor bolt installation details see sheet 11 of 18.
 For bar splicer details see sheet 16 of 18.
 If h(E) bars interfere with HP Piles, cut h(E) bars to fit and maintain min. 2'-2" embedment.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	35	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394

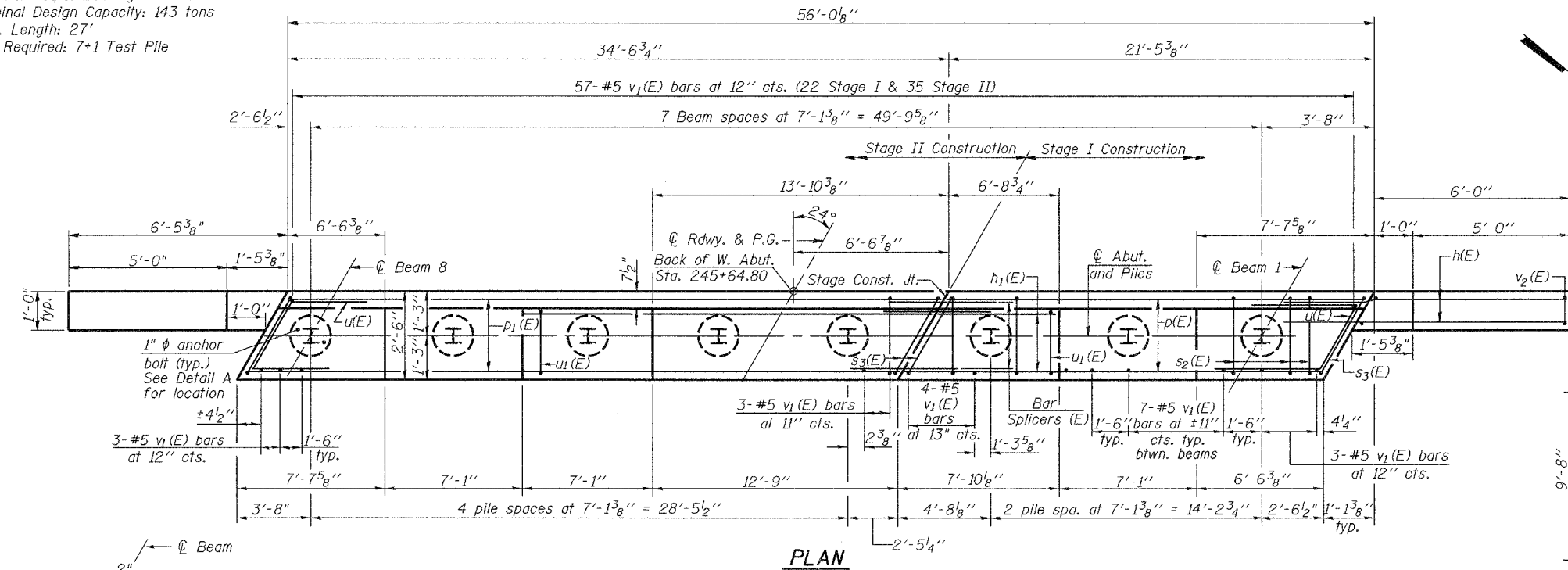


SEC. THRU ABUT.

PILE DATA

Type: Steel HP 10x42
 Nominal Req'd. Bearing: 335 tons
 Nominal Design Capacity: 143 tons
 Est. Length: 27'
 No. Required: 7+1 Test Pile

ELEVATION
 (Looking West)



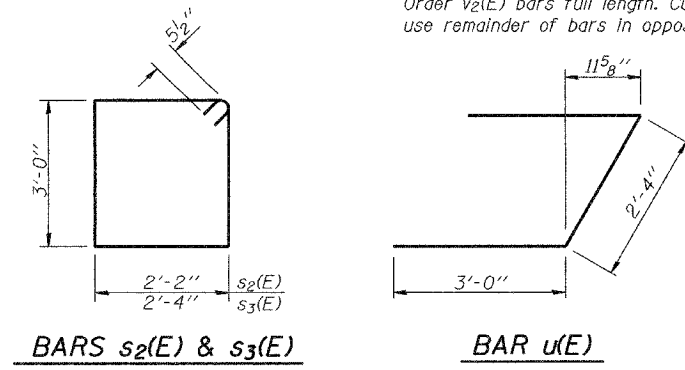
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-1"	—
h1(E)	2	#5	27'-0"	—
p(E)	9	#7	21'-1"	—
p1(E)	9	#7	34'-2"	—
s2(E)	55	#5	11'-3"	□
s3(E)	4	#5	11'-7"	□
u(E)	8	#6	8'-4"	┘
u1(E)	27	#5	3'-6"	┘
v1(E)	112	#5	4'-4"	—
v2(E)	16	#5	9'-8"	—
Concrete Structures	Cu. Yd.	21.2		
Reinforcement Bars Epoxy Coated	Pound	2940		
Structure Excavation	Cu. Yd.	102		
Furnishing Steel Piles HP10x42	Foot	189		
Driving Piles	Foot	189		
Test Pile Steel HP10x42	Each	1		

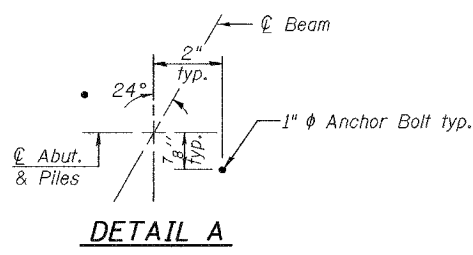
FIELD CUTTING DIAGRAM

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

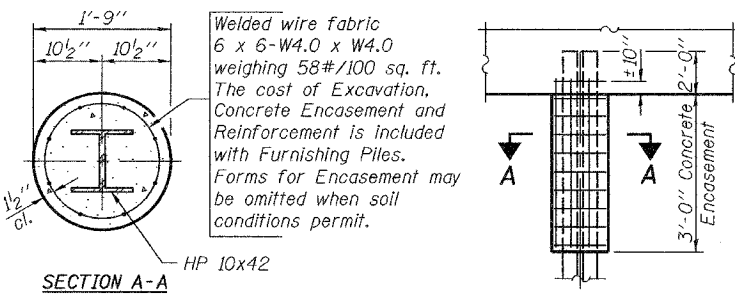


BARS s2(E) & s3(E)

BAR u(E)



DETAIL A



PILE ENCASUREMENT DETAIL

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

March 16, 2006
 EXAMINED Thomas J. Domagalaki
 PASSED Ralph E. Anderson
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

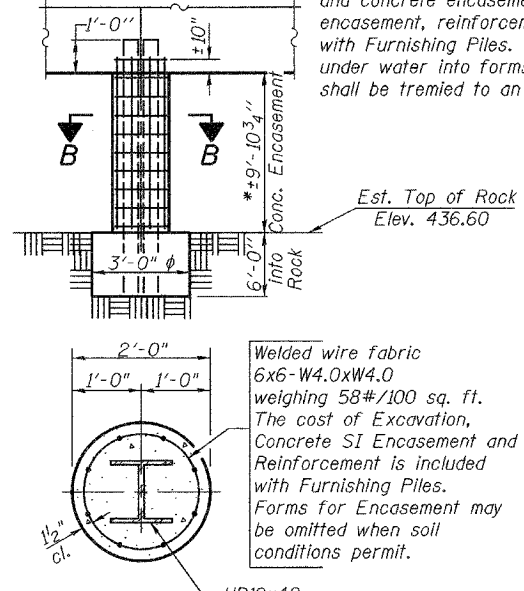
WEST ABUTMENT
 F.A.U. ROUTE 9251 - SECTION 28-3BR-1
 ST. CLAIR COUNTY
 STATION 246+33.80
 STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

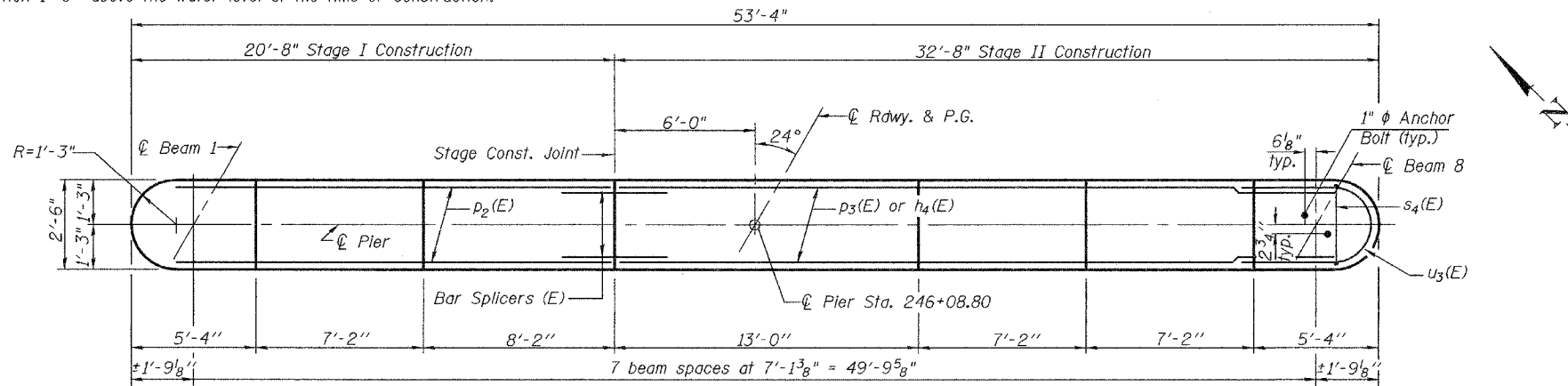
ROUTE NO.	SECTION	COUNTY	STATION	SHEET	SHEET NO. 14
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	37	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394

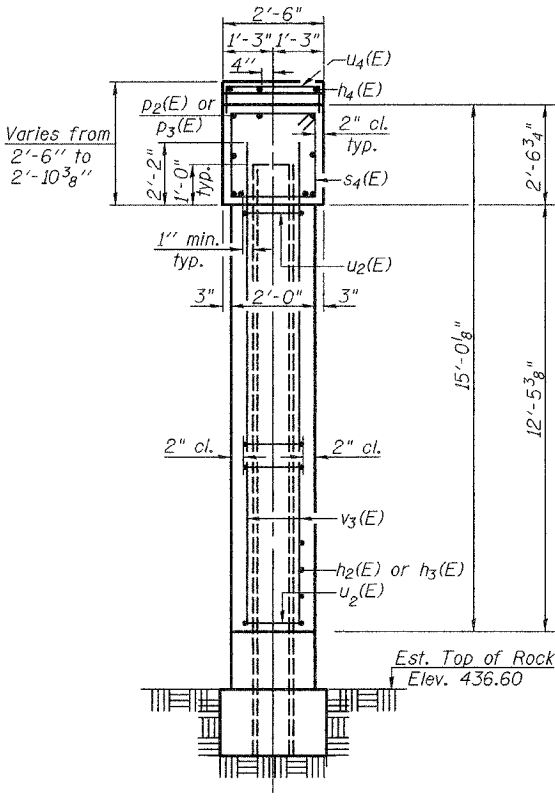
*Forms shall be placed below Elev. ±446.50 after excavation for pier wall. Reinforcement and concrete encasement shall be poured underwater into forms. The cost of concrete encasement, reinforcement, form excavation, and furnishing and placing forms is included with Furnishing Piles. If a portion of the pier wall is under water, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an elevation 1'-0" above the water level at the time of construction.



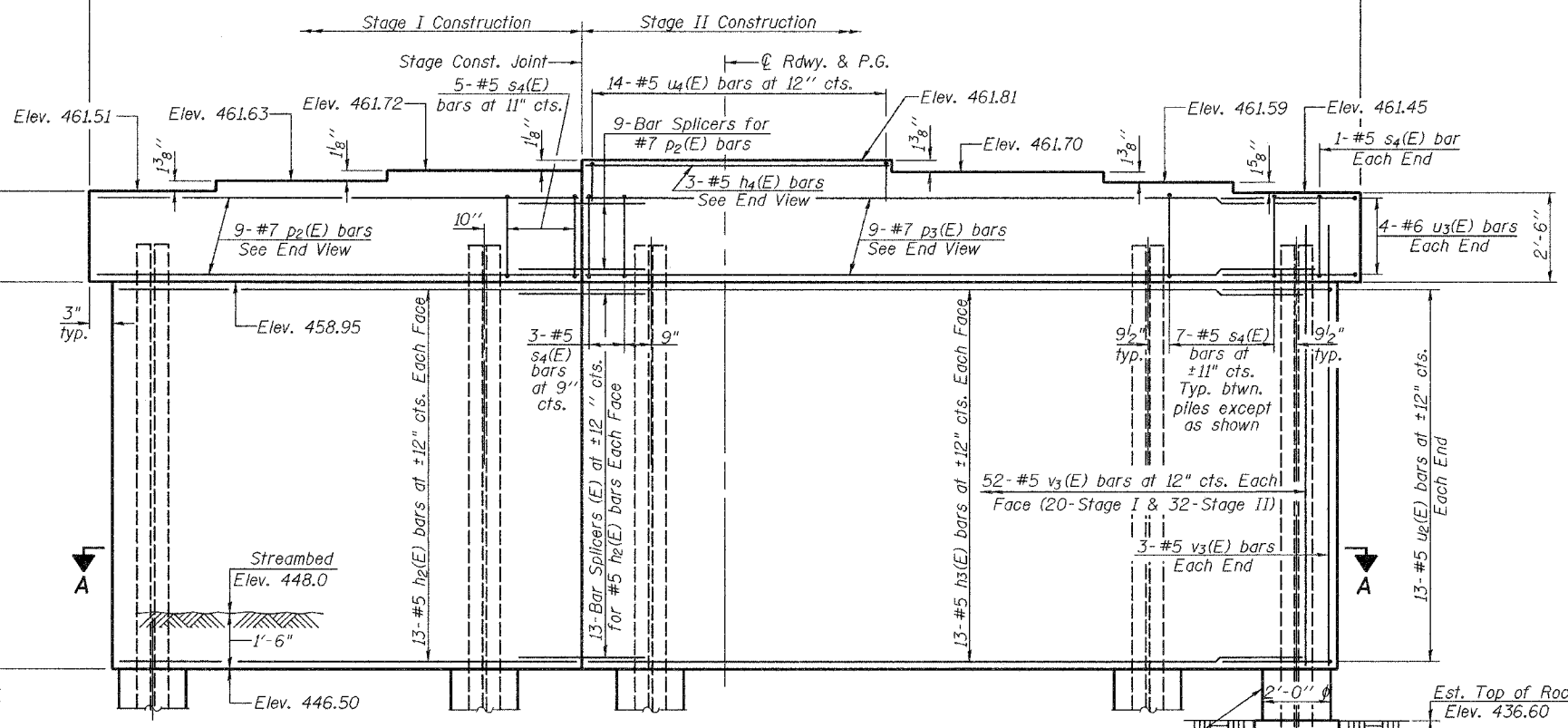
SECTION B-B
PILE ENCASEMENT DETAIL



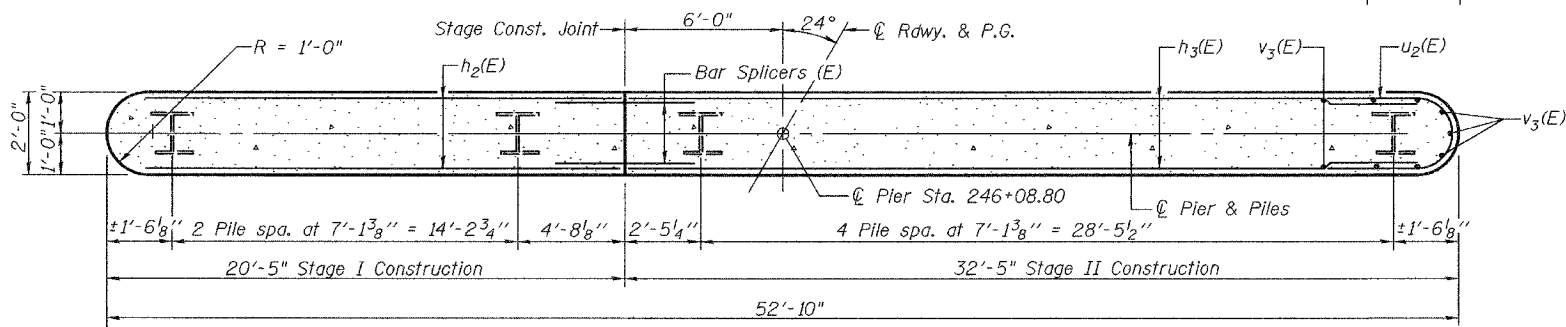
TOP PLAN



END VIEW



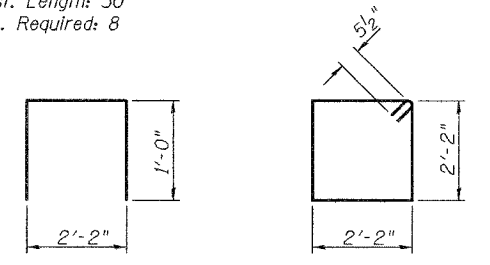
ELEVATION
(Looking East)



SECTION A-A

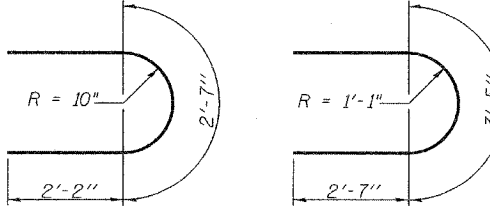
PILE DATA

Type: Steel HP10x42
Nominal Req'd. Bearing: Set in Rock
Nominal Design Capacity: 207 tons
Est. Length: 30'
No. Required: 8



BAR u4(E)

BAR s4(E)



BAR u2(E)

BAR u3(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	26	#5	19'-3"	—
h3(E)	26	#5	31'-3"	—
h4(E)	3	#5	12'-8"	—
p2(E)	9	#7	19'-3"	—
p3(E)	9	#7	31'-3"	—
s4(E)	52	#5	9'-7"	□
u2(E)	26	#5	6'-11"	U
u3(E)	8	#6	8'-7"	U
u4(E)	14	#5	4'-2"	□
v3(E)	110	#5	14'-6"	—
Concrete Structures		Cu. Yd.	61.6	
Reinforcement Bars, Epoxy Coated		Pound	4870	
Furnishing Steel Piles HP10x42		Foot	240	
Setting Piles in Rock		Each	8	
Structure Excavation		Cu. Yd.	63	
Underwater Structure Excavation Protection Location 3		Each	1	

Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 11 of 18.
For bar splicer details see sheet 16 of 18.

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	Thomas J. Domagala	March 16, 2006
PASSED	Ralph E. Anderson	

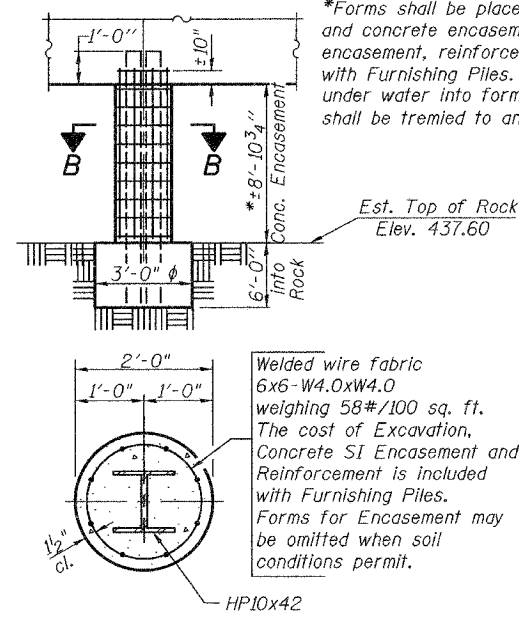
PIER 1
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

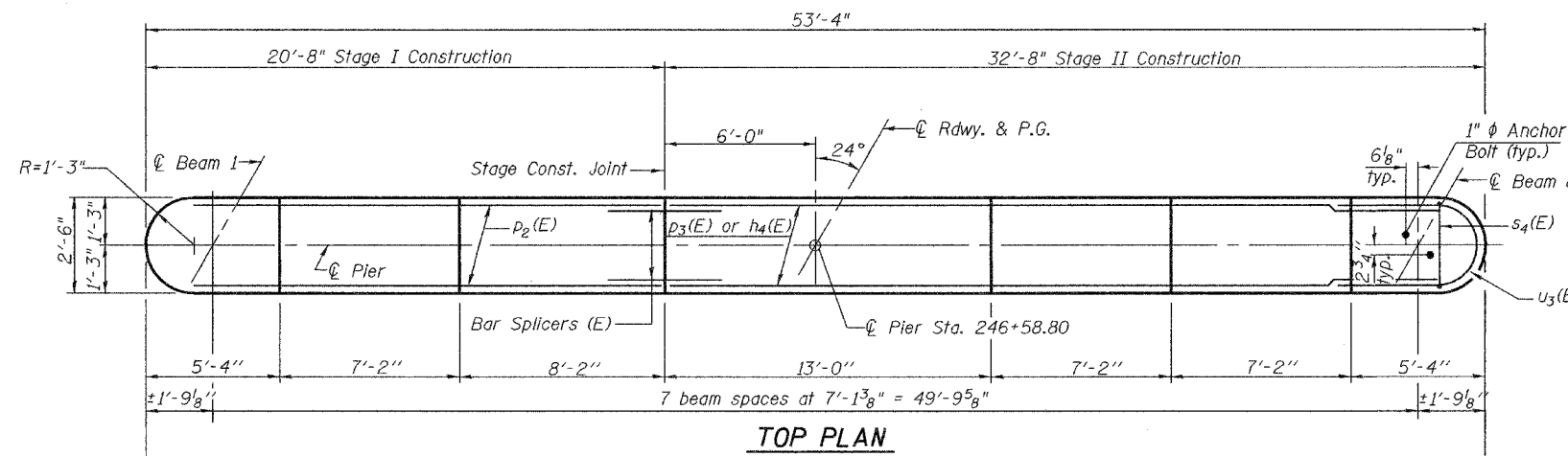
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #76394

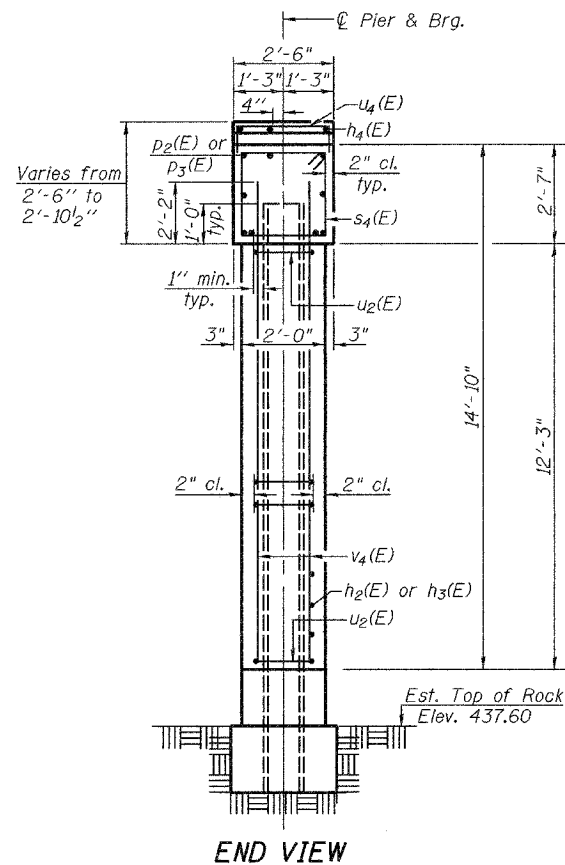
*Forms shall be placed below Elev. ±446.50 after excavation for pier wall. Reinforcement and concrete encasement shall be poured underwater into forms. The cost of concrete encasement, reinforcement, form excavation, and furnishing and placing forms is included with Furnishing Piles. If a portion of the pier wall is under water, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an elevation 1'-0" above the water level at the time of construction.



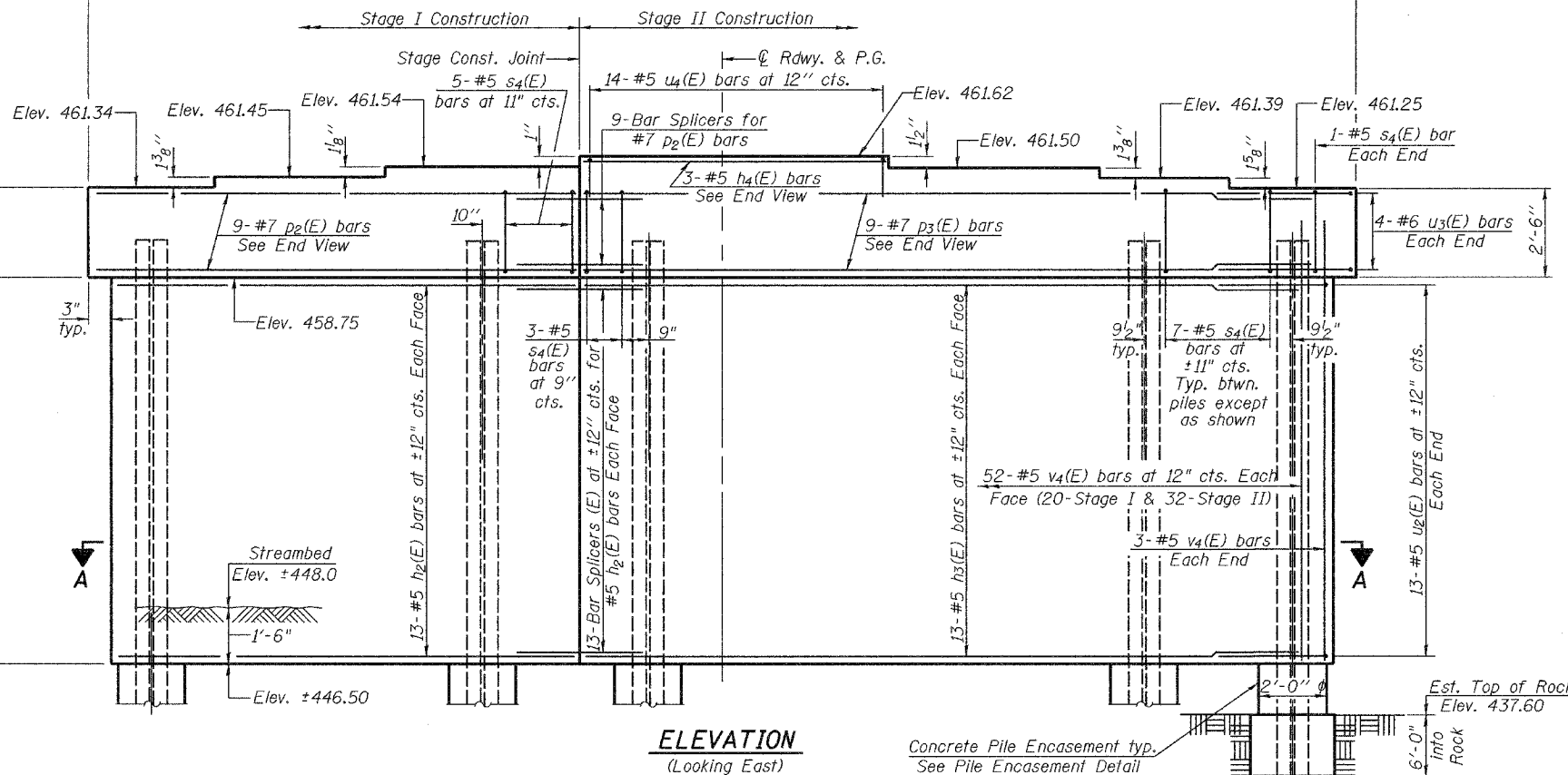
SECTION B-B
PILE ENCASEMENT DETAILS



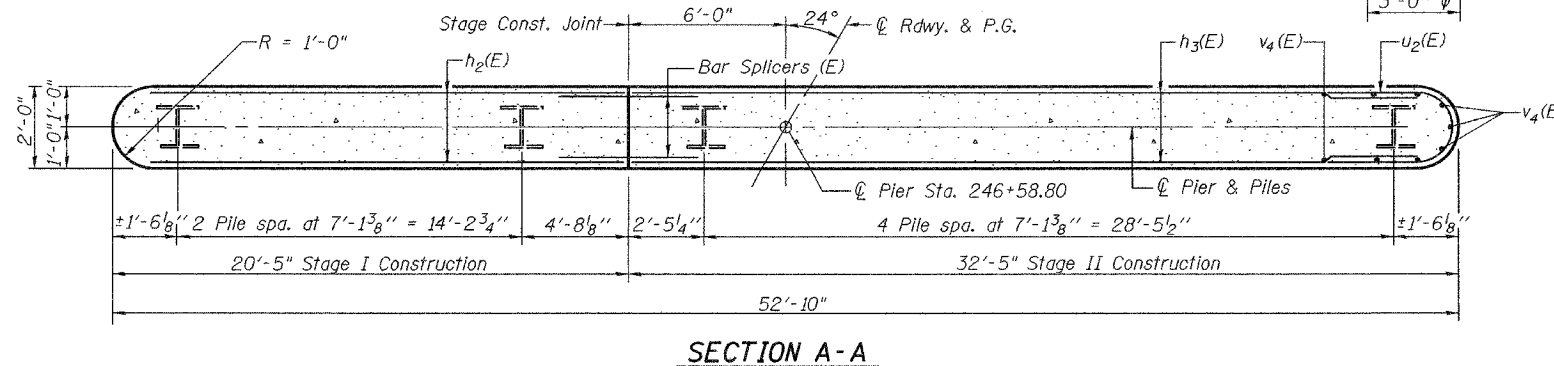
TOP PLAN



END VIEW



ELEVATION
(Looking East)



SECTION A-A

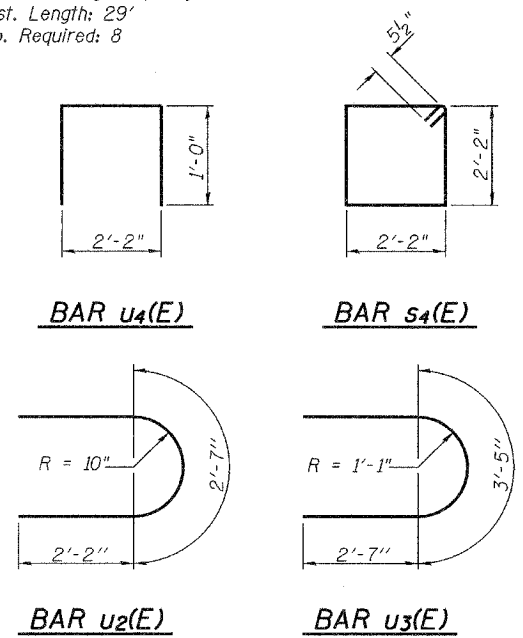
Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 11 of 18.
For bar splicer details see sheet 16 of 18.

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

PILE DATA

Type: Steel HP10x42
Nominal Req'd. Bearing: Set in Rock
Nominal Design Capacity: 207 tons
Est. Length: 29'
No. Required: 8



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	26	#5	19'-3"	—
h3(E)	26	#5	31'-3"	—
h4(E)	3	#5	12'-8"	—
p2(E)	9	#7	19'-3"	—
p3(E)	9	#7	31'-3"	—
s4(E)	52	#5	9'-7"	□
u2(E)	26	#5	6'-11"	U
u3(E)	8	#6	8'-7"	U
u4(E)	14	#5	4'-2"	□
v4(E)	110	#5	14'-3"	—
Concrete Structures			Cu. Yd.	60.8
Reinforcement Bars, Epoxy Coated			Pound	4840
Furnishing Steel Piles HP10x42			Foot	232
Setting Piles in Rock			Each	8
Structure Excavation			Cu. Yd.	63
Underwater Structure Excavation Protection Location 4			Each	1

PIER 2
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 16
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	39	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394

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

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

ROLLED THREAD DOWEL BAR



**ONE PIECE

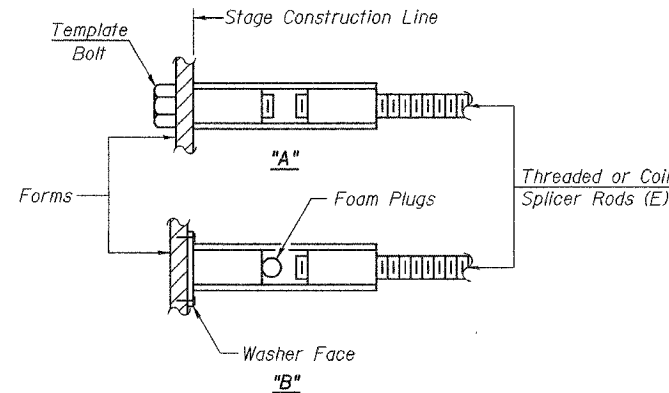
Wire Connector



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

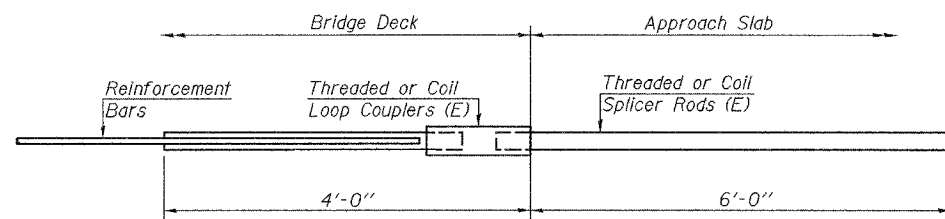
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the 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:

- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s,allow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

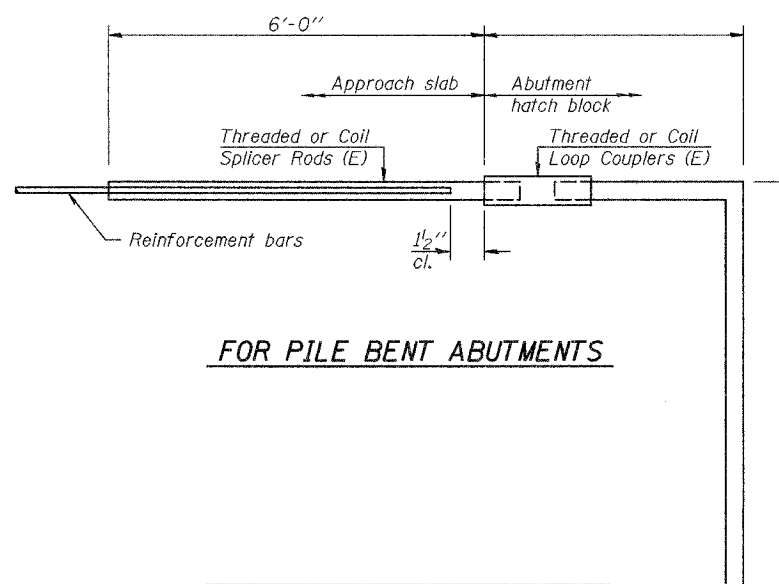
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



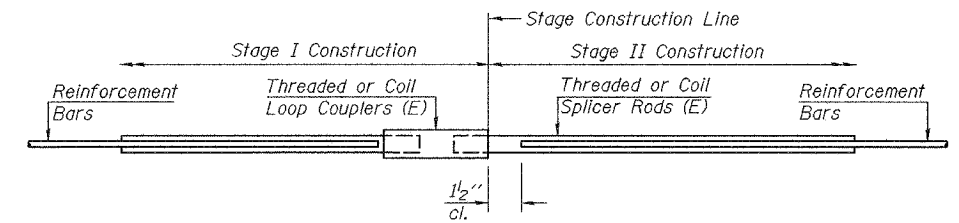
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 96



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	407	Slab
#5	2	W. Abut. Cap
#7	9	W. Abut. Cap
#6	8	W. Abut. Diaph.
#7	9	Pier 1 Cap
#5	26	Pier 1 Wall
#7	9	Pier 2 Cap
#5	26	Pier 2 Wall
#6	8	E. Abut. Diaph.
#5	2	E. Abut. Cap
#7	9	E. Abut. Cap

BAR SPLICER ASSEMBLY DETAILS
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

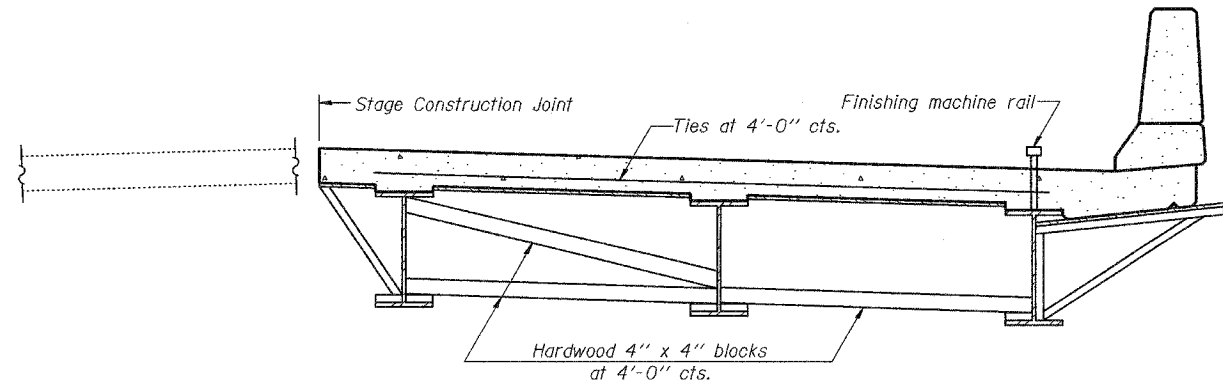
DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

BSD-1 10-22-04

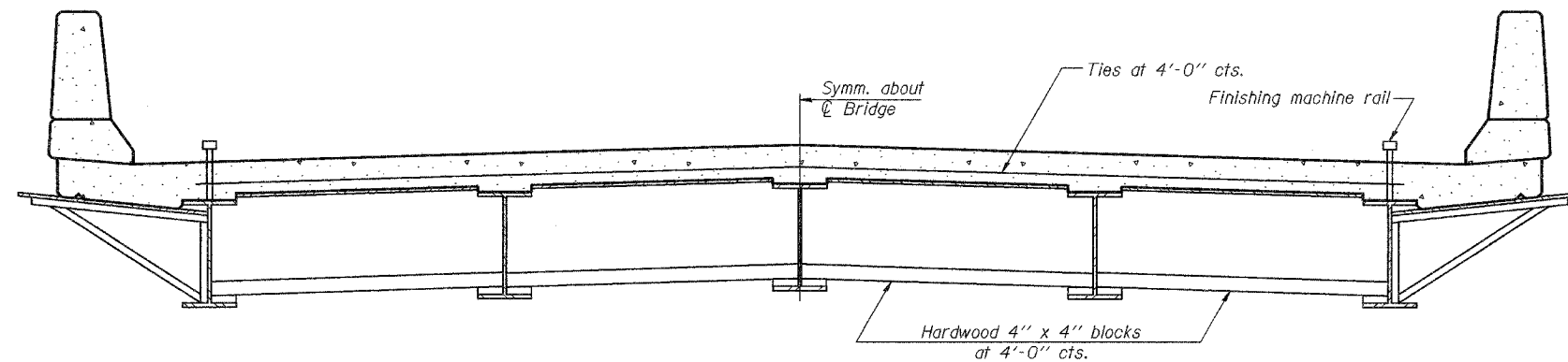
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 17
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	40	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #76394		



FORM BRACES FOR
STAGE CONSTRUCTION

When cantilever forming brackets are used, the work shall be done according to Article 503.06, 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, 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

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

EXAMINED	March 16, 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

SB-1 10-22-04

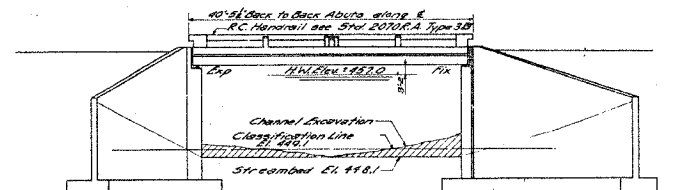
CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
F.A.U. ROUTE 9251 - SECTION 28-3BR-1
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

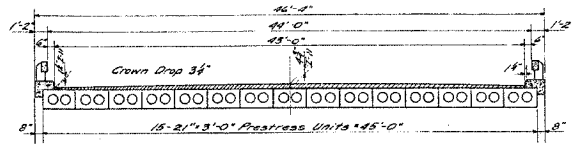
D.M. 88 Spine in 20' dia.
 24' ft. of 24" x 24" R.C. Pier
 Existing Structure R.C. thru girder
 1 Span @ 35' - Roadway 20'
 R.C. Closed Abutments.
 Contractor shall remove existing
 superstructure portions of substructure
 that interfere with new construction.
 No Salvage.

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

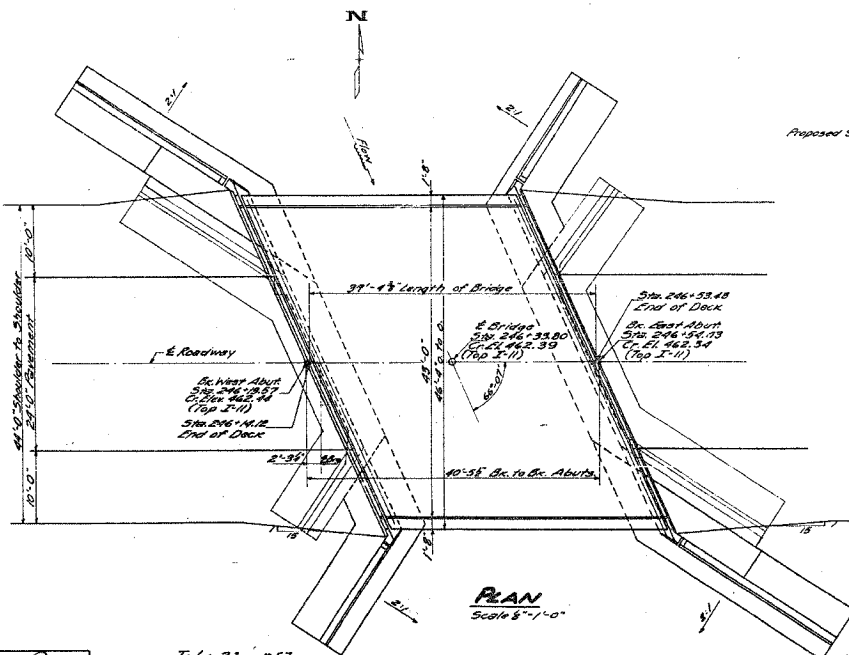
DATE	REVISION	BY	CHKD.	APP'D.	SHEET NO. / TOTAL SHEETS
15	33	St. Clair	16	5	2 SHEETS



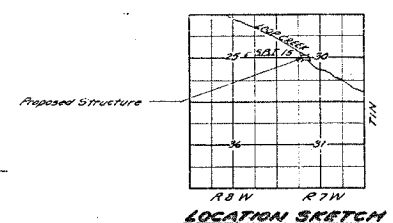
ELEVATION
 Scale 1/2" = 1'-0"



CROSS SECTION



PLAN
 Scale 1/8" = 1'-0"



LOCATION SKETCH

GENERAL NOTES

Class X Concrete shall be used throughout except as noted. Reinforced concrete shall be used in Abutments and Piers. Reinforced concrete in the Abutments and Piers shall be poured in two separate operations. For Item "Precast Prestressed Concrete Bridge Deck" see Special Provisions.

Strand used as prestressing element shall be non-galvanized high strength stress-relieved 7 wire strand. The nominal diameter of the strand shall not exceed 3/4" and the nominal cross-sectional area shall be 0.88 square inch.

Concrete that receives transverse tie bars in the outside beams shall be filled with grout after transverse tie assembly is in place. Rods on outside beams not having ties shall also be grouted. Cast for filling rods shall be incidental to the Unit Price bid for "Precast Prestressed Concrete Bridge Deck".

The 1/2" dia. bars cast in outside beams shall be included in the Unit Price bid for "Precast Prestressed Concrete Bridge Deck".

The Roadway Expansion Guard cast in beams shall be included in the Unit Price bid for "Precast Prestressed Concrete Bridge Deck".

The Roadway Expansion Guard in approach slab shall be fabricated to fit the roadway. It shall be paid for as Structural Steel, Estimated 141,670 lbs.

All surfaces of the Expansion Guard in approach slab and in the beams which are inaccessible after erection shall receive two shop coats of red lead paint except the 2" x 2" struts. The struts shall not be painted.

Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint except as otherwise provided. See Division 58, to 58.6 inclusive of the Standard Specifications.

All paint shall be furnished by the contractor.

The 3/8" x 1/2" x 1/2" cast in beams shall be included in the Unit Price bid for "Precast Prestressed Concrete Bridge Deck".

The base of the proposed abutments and wing walls from the top of the approach notch or top of the earth fill to the top of the footing shall be water-logged in accordance with Article 505 of the Standard Specifications.

The 1" x 8" bars in the transverse tie assembly shall be tightened to a snug fit entire threads set.

STATION 246+53.0
 BUILT 195 BY
 STATE OF ILLINOIS
 S.E.C. 27.15-32.00
 P.A. 082-0057
 LOADING H-20-S16
WAVE PLATE
 See Spcl 2115

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL
Precast Prestressed Concrete Bridge Deck	166.2		166.2
Class X Concrete	Cu. Yds.	5.0	228.6
Reinforced Concrete	Cu. Yds.	2.0	2.0
Reinforcement Bars	Lbs.	1010	16,770
Structural Steel	Lbs.	1,570	1,570
Class II Excavation for Structures		470	470
Class II Excavation for Structures	Cu. Yds.	150	150
Channel Excavation	Cu. Yds.	150	150
Wave Plates	Ea.	1	1
Expansion Bolts	Ea.	68	68
Concrete Removal	Cu. Yds.	54	6.60

WATERWAY INFORMATION

Damage Area ----- 2070 Acres
 Character -- Level, Rolling, Clay, Cultivated
 Flood Opening -- (30% Frequency) -- 256' x
 Flood Opening ----- 256' x
 Proposed Opening ----- 256' x
 Ordinary Flow ----- El. 448.6
 Low Water Flow ----- El. 448.1
 High Water Flow ----- El. 448.1

DESIGN STRESSES

PRECAST UNITS FIELD UNITS
 F_c = 5000 p.s.i. F_c = 14000 p.s.i. (Supac)
 F_t = 4000 p.s.i. F_t = 800 p.s.i. (Sub)
 F_s = 250,000 p.s.i. (Cables) F_s = 20,000 p.s.i. (Reinf)
 F_s = 150,000 p.s.i. (Cables) N = 10

GENERAL PLAN ELEVATION
BRIDGE OVER LOOP CREEK
S.E.C. 27.15 - SEC. 32.00
ST. CLAIR COUNTY
STATION 246+53.0

DESIGNED: G.H. Kelly
 EXAMINED: M.L. Brown
 CHECKED: J. Kelly
 DRAWN: G.H. Kelly
 DATE: July 23, 1957

Loading H-20-S16

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
 FAU ROUTE 9251
 SECTION 28-3BR-I
 ST. CLAIR COUNTY
 SN 082-0057(E) 0398(P)

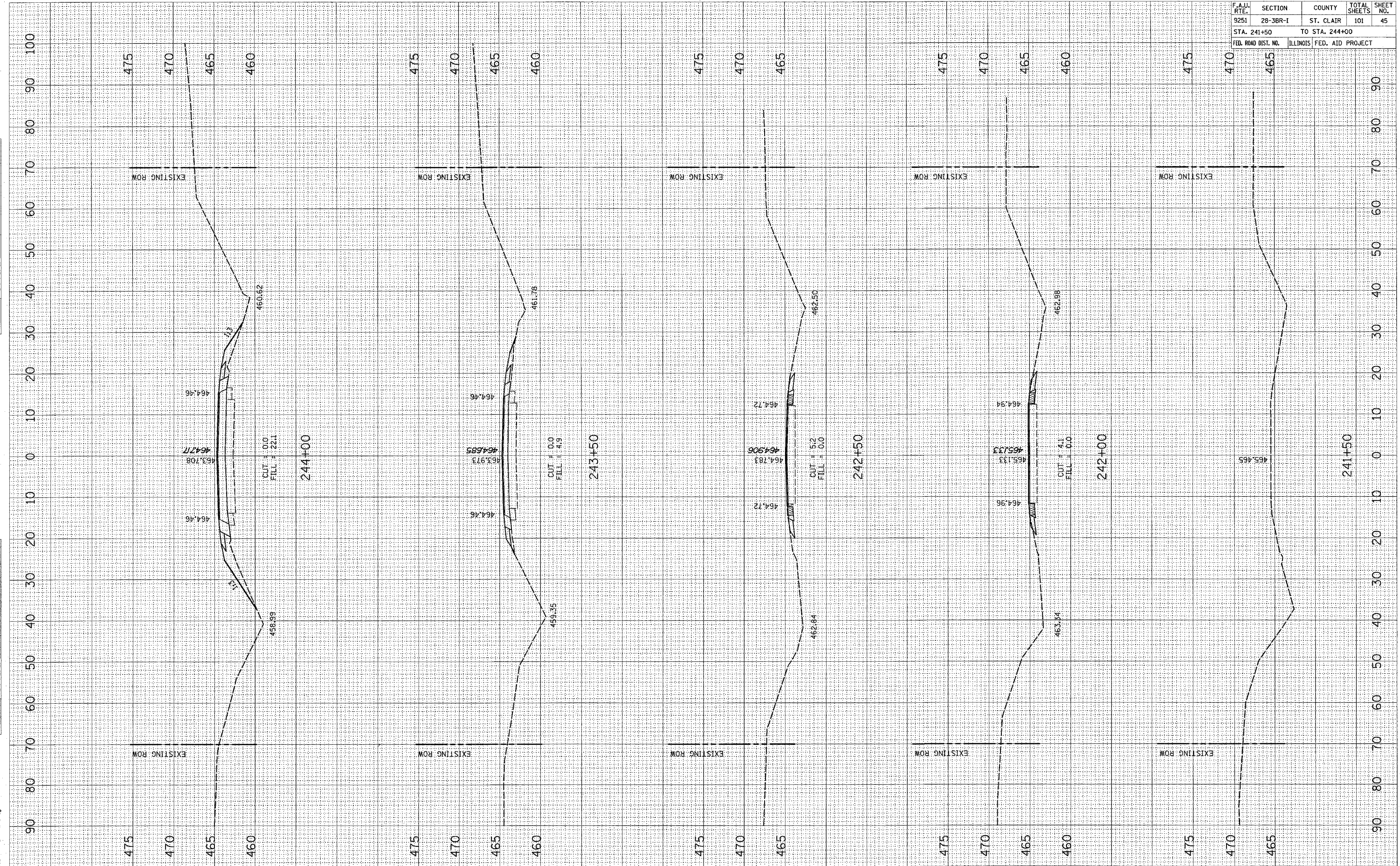
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	45
STA. 241+50		TO STA. 244+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY
NOTE BOOK NO. _____
DATE _____

DATE _____
BY _____

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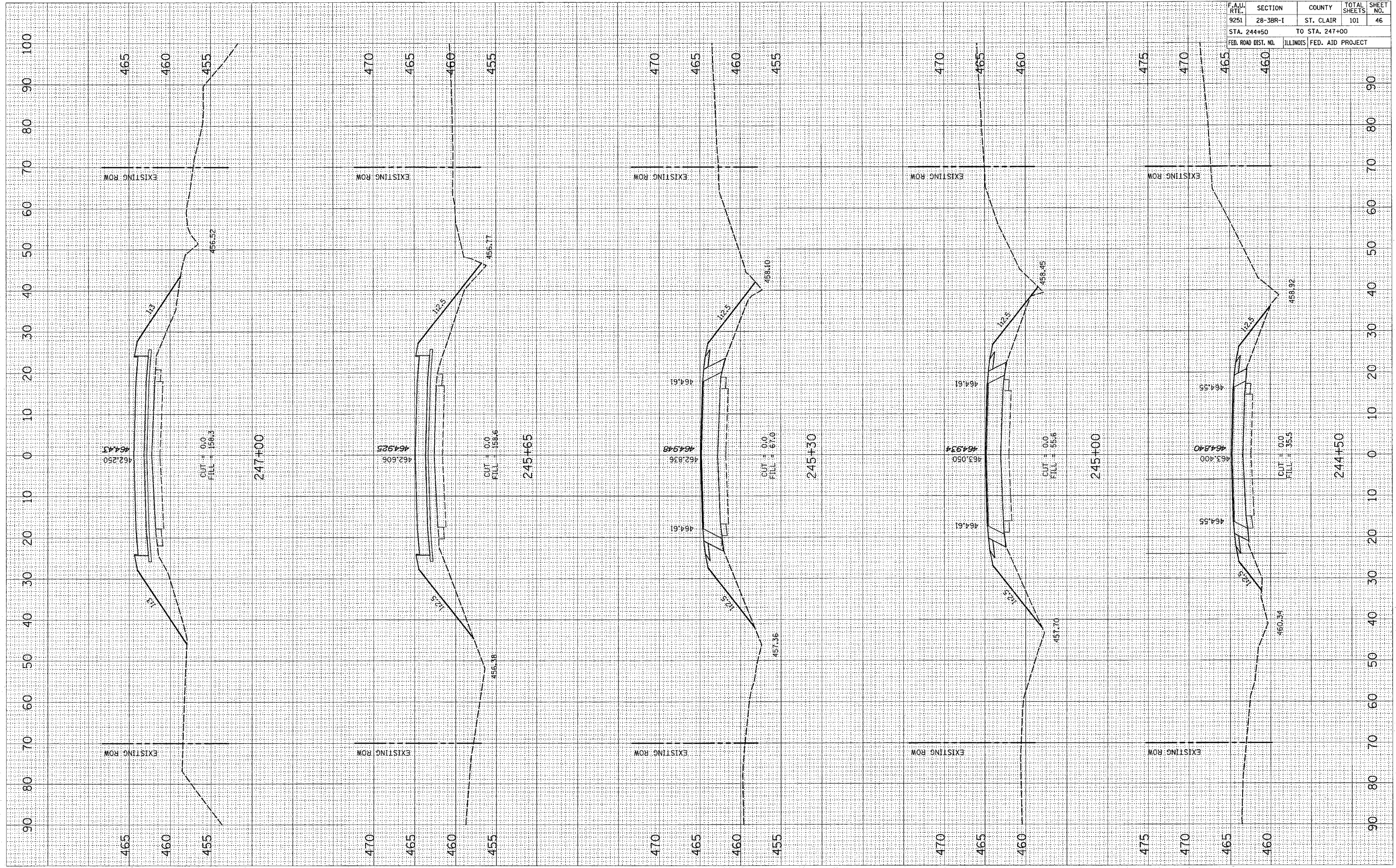


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	46
STA. 244+50		TO STA. 247+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

DATE	BY

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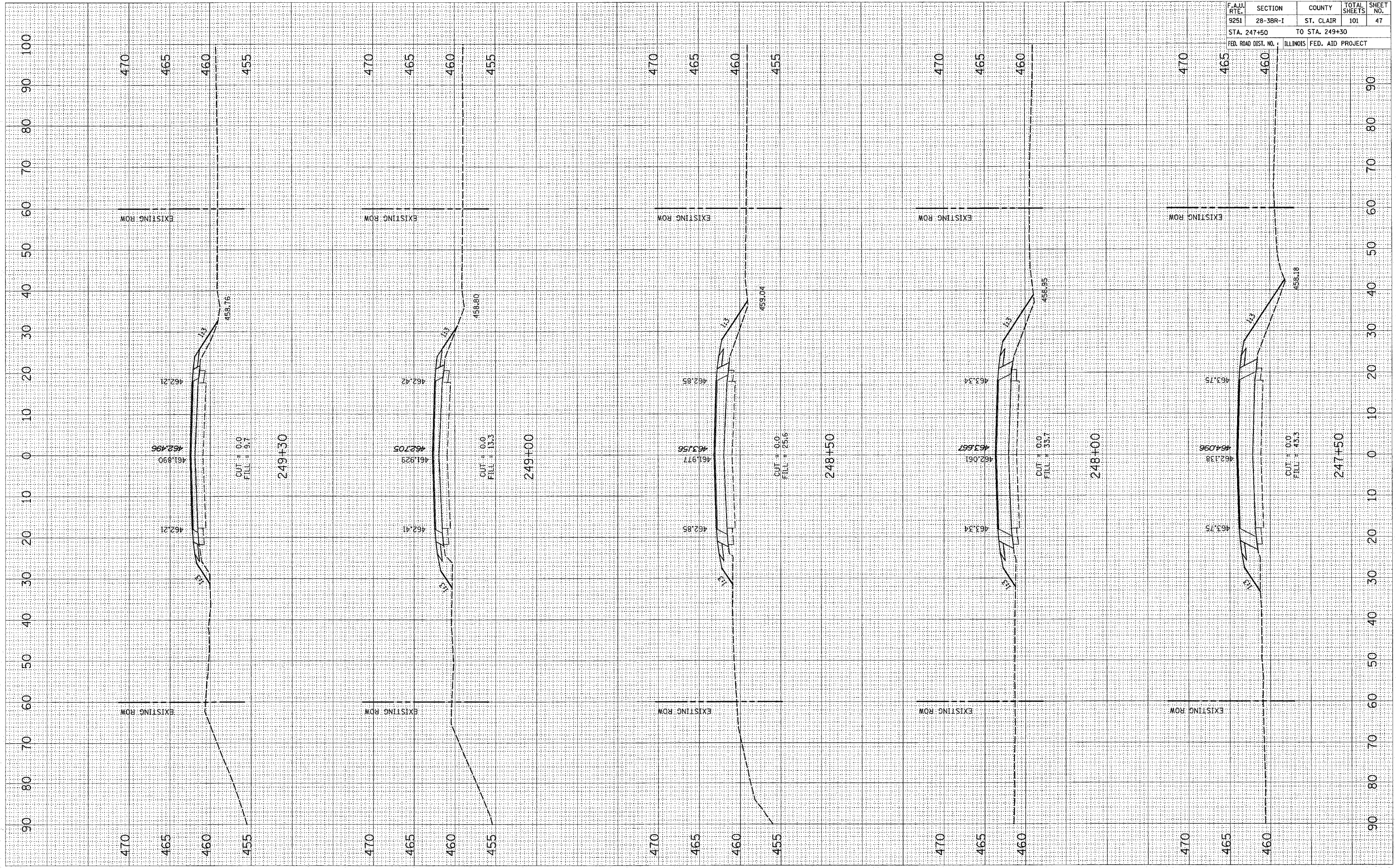


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-38R-1	ST. CLAIR	101	47
STA. 247+50 TO STA. 249+30		ILLINOIS FED. AID PROJECT		

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

DATE	BY	DATE

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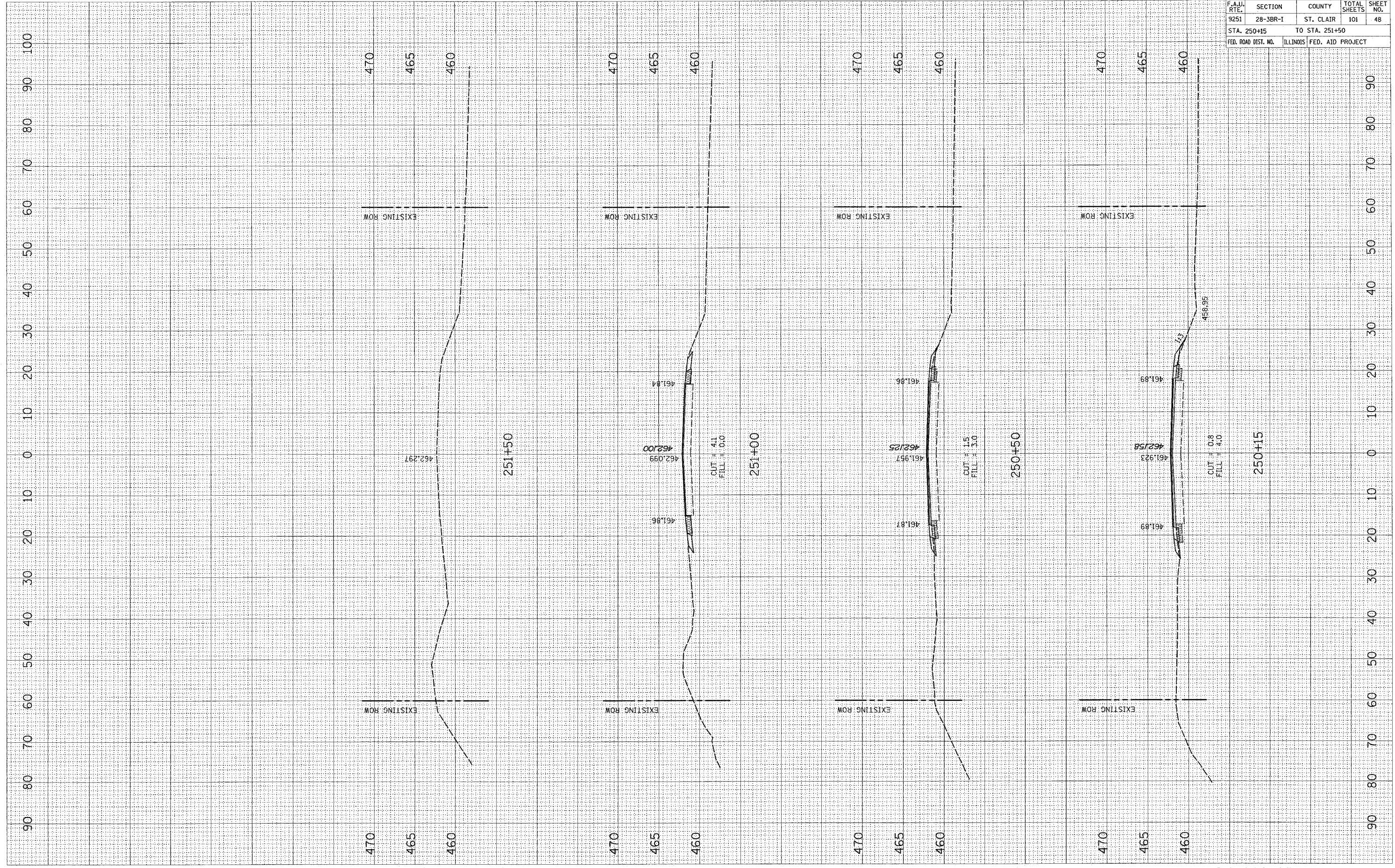


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	48
STA. 250+15		TO STA. 251+50		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

ORIGINAL SURV.	BY	DATE
NO.		

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 PLOT SCALE = 10.0000 / 1.00
 USER NAME = hrd@engr.com

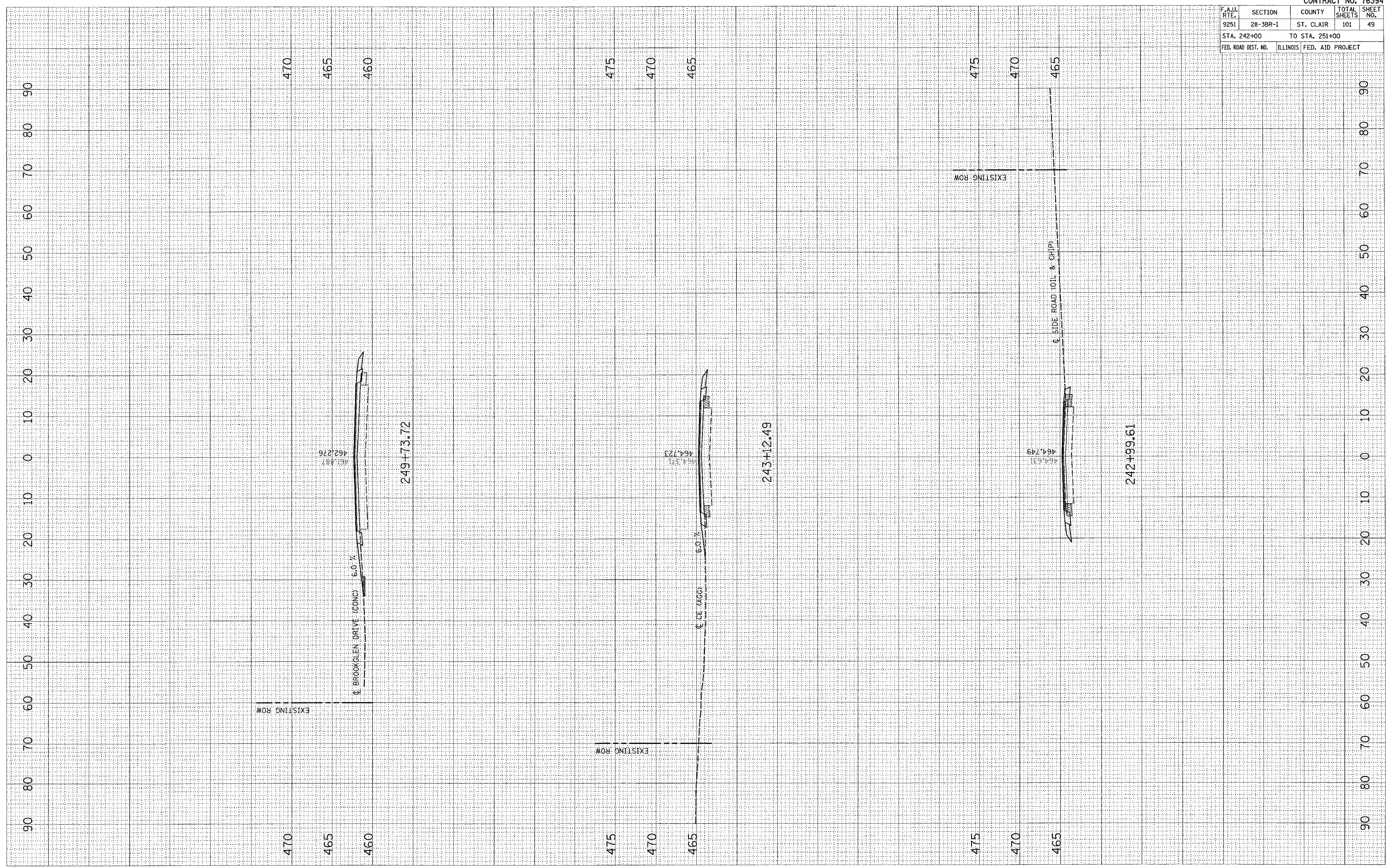


F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	49
STA. 242+00		TO STA. 251+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	CHECKED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	CHECKED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

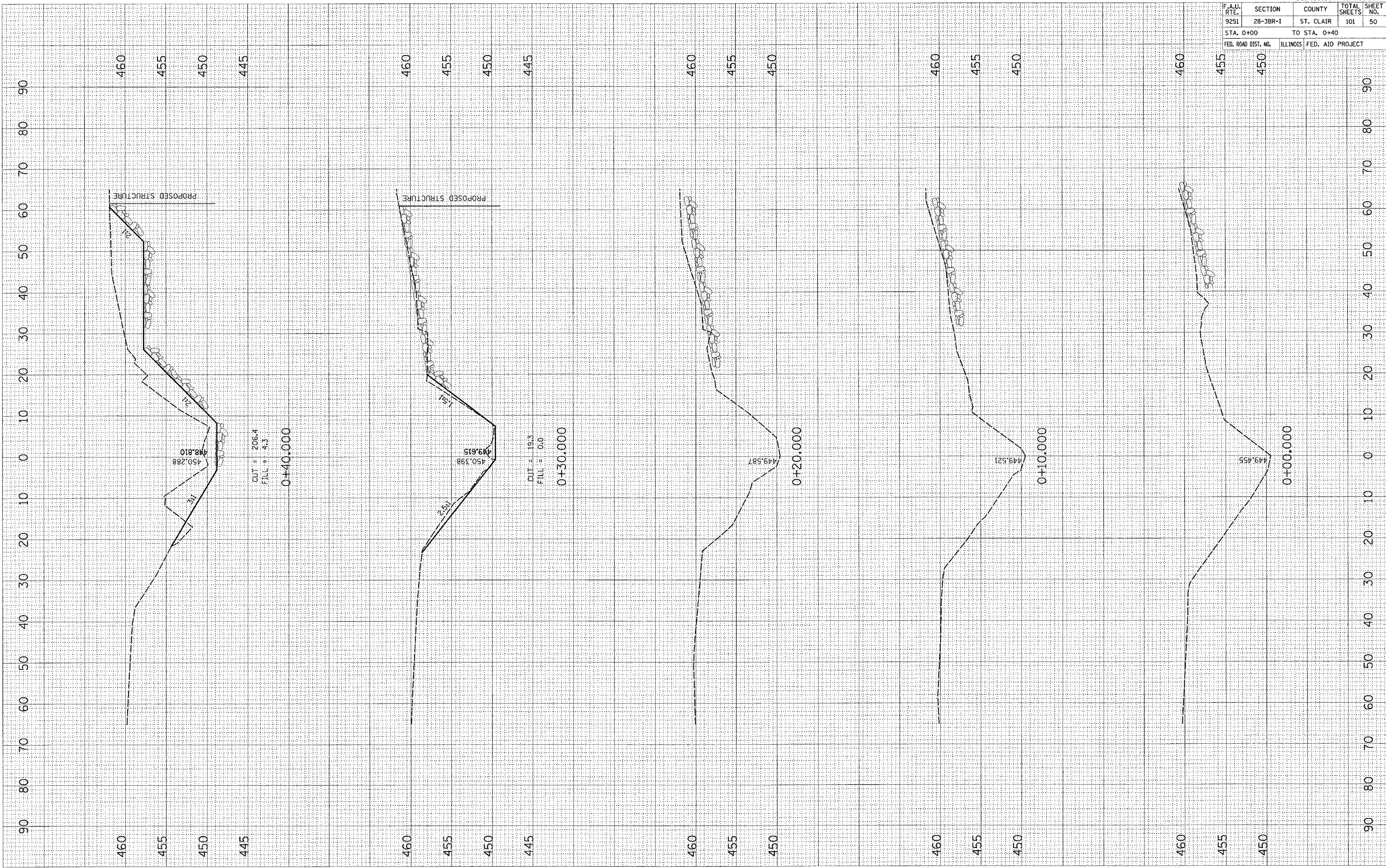
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PLOT DATE = 2/9/2006
 PLOT SCALE = 1/8" = 20' / IN.
 USER NAME = horbaugh-d

ORIGINAL SURVEYED BY DATE
 SERIALIZED PLOTTED DATE
 CHECKED DATE
 NO. AREAS CHECKED

FINAL SURVEYED BY DATE
 SERIALIZED PLOTTED DATE
 CHECKED DATE
 NO. AREAS CHECKED



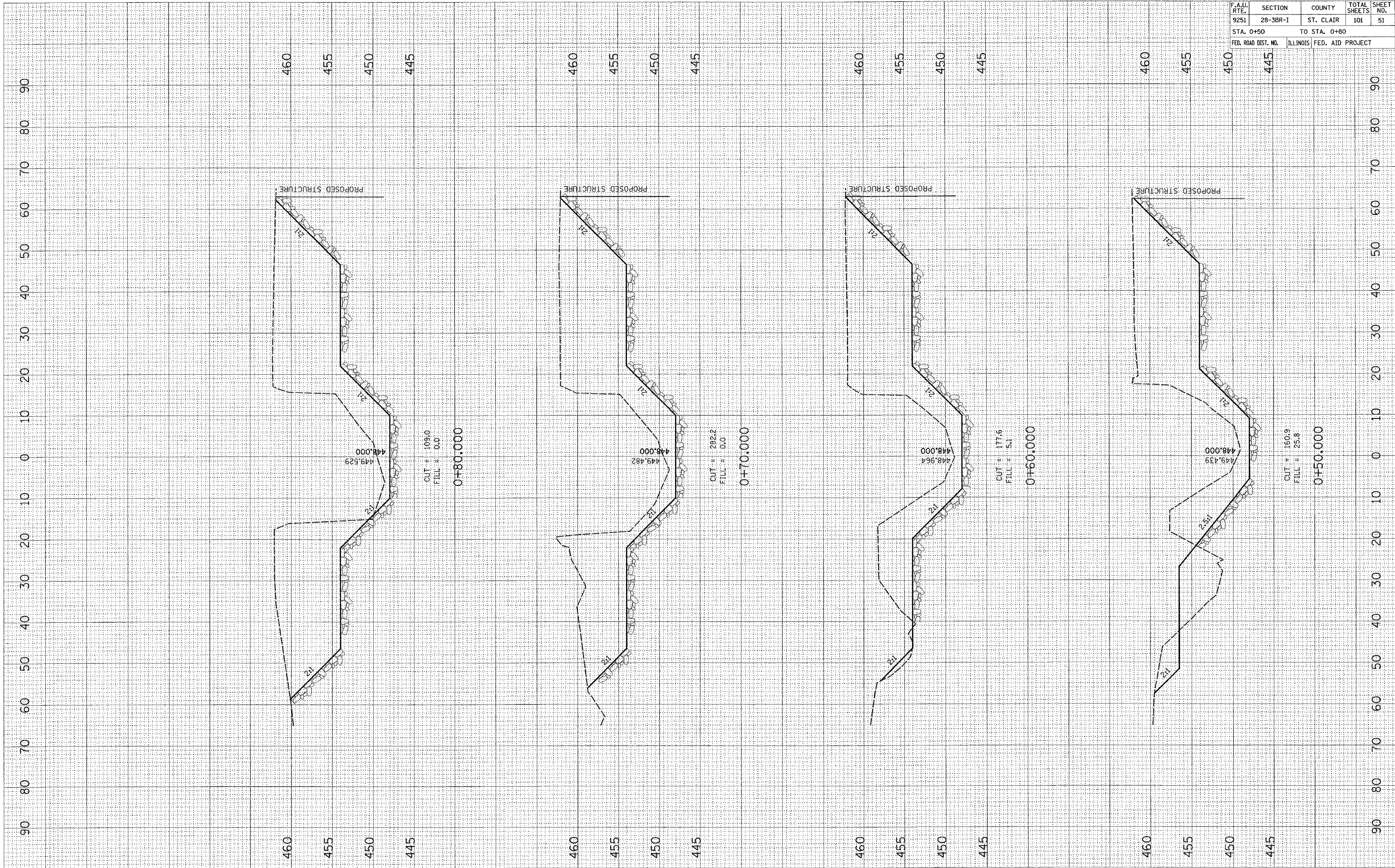
CONTRACT NO. 76394				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	50
STA. 0+00		TO STA. 0+40		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = 2/9/2006
 PLOT SCALE = 10.0000" = 1'
 USER NAME = hrb@baugh-d

ORIGINAL SURVEY
 SURVEY PLOTTED
 TEMPLATE
 AREA CHECKED

FINAL SURVEY
 SURVEY PLOTTED
 TEMPLATE
 AREA CHECKED

BY DATE



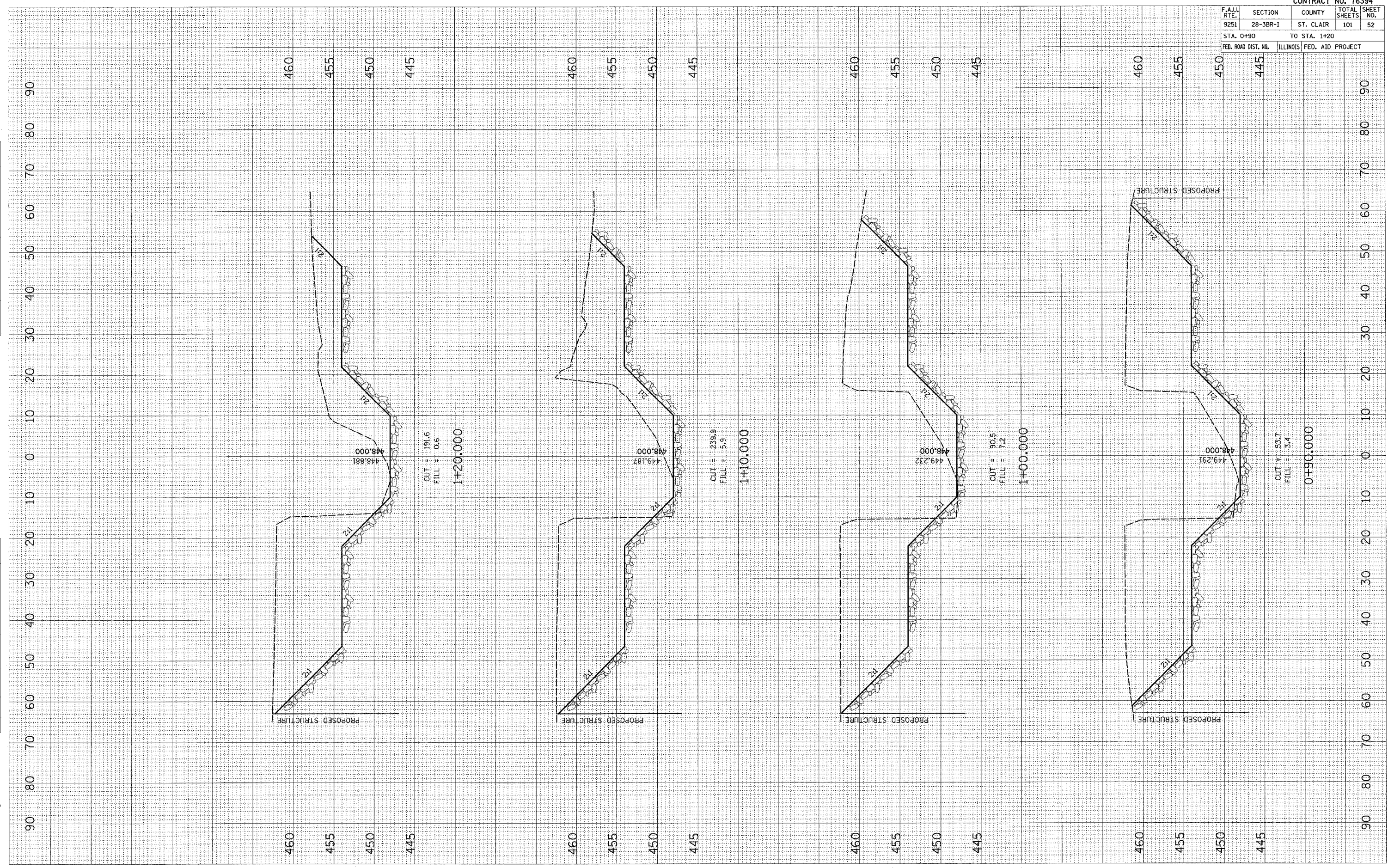
CONTRACT NO. 76394				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	51
STA. 0+50		TO STA. 0+80		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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 SURVEYED _____ BY _____ DATE _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____

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

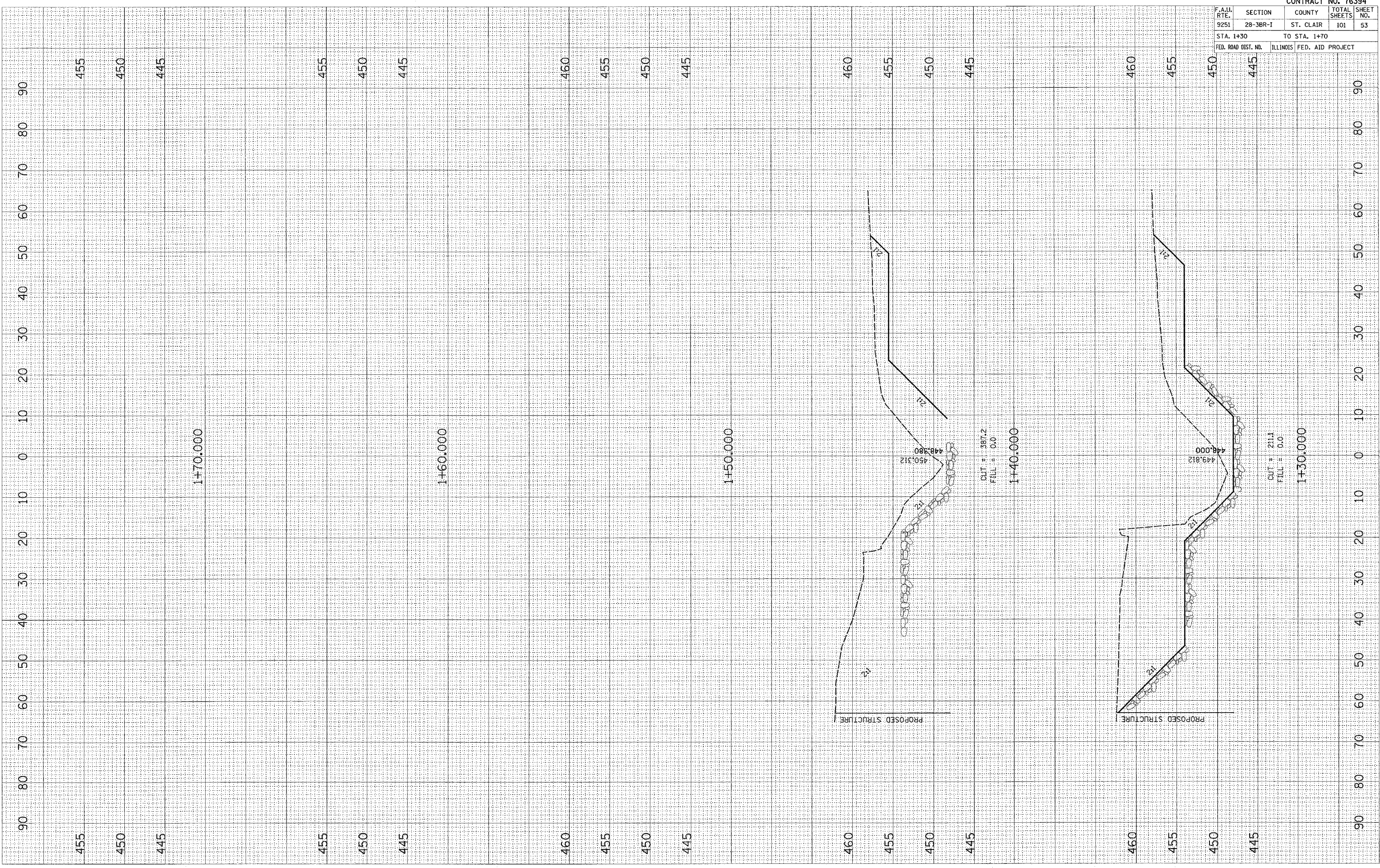
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	52
STA. 0+90		TO STA. 1+20		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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ORIGINAL SURVEY BY DATE
 SURVEYED _____ BY _____ DATE _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____

FINAL SURVEY BY DATE
 SURVEYED _____ BY _____ DATE _____
 FORMATE _____
 AREAS _____
 AREAS CHECKED _____

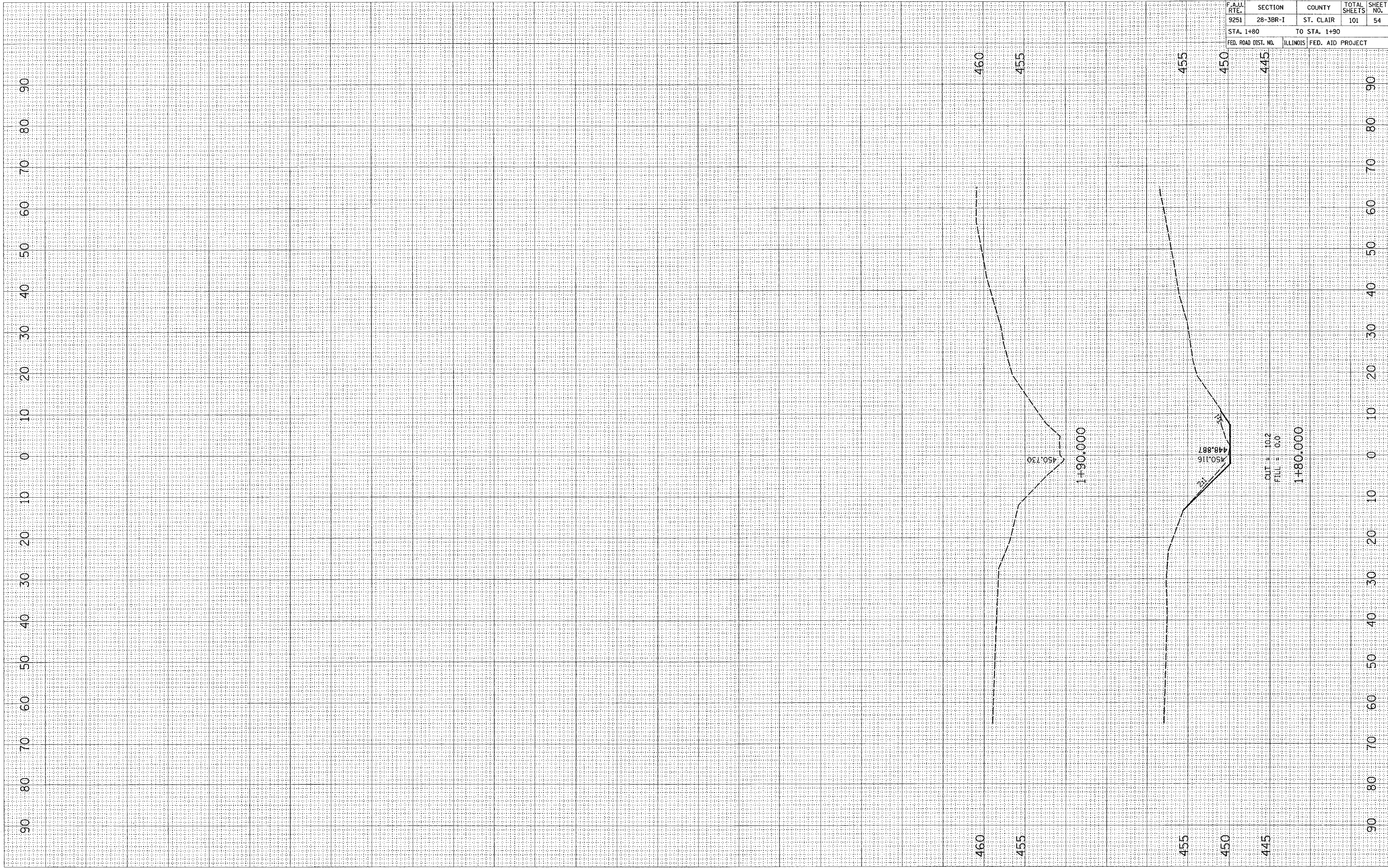


CONTRACT NO. 76394				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-1	ST. CLAIR	101	53
STA. 1+30		TO STA. 1+70		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 USER NAME = hrb@engr.com

ORIGINAL SURVEY	DATE
SURVED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	

FINAL SURVEY	DATE
SURVED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	



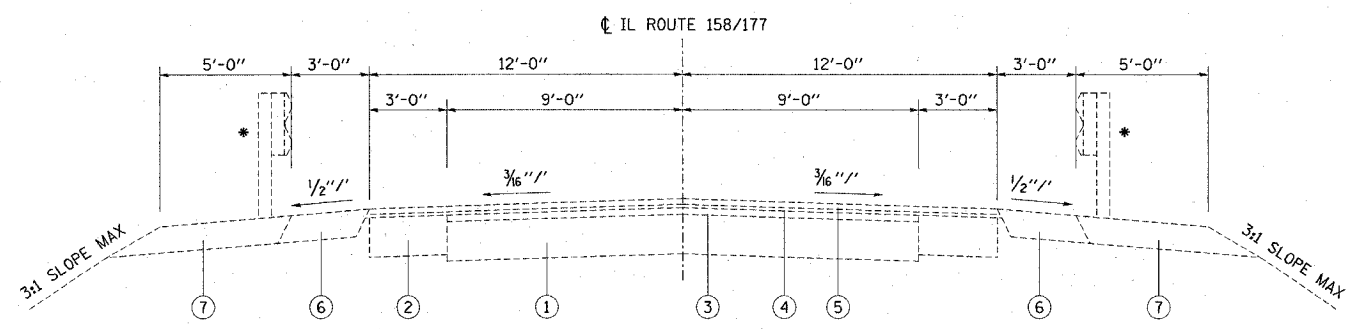
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CONTRACT NO. 76394				
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28-3BR-I	ST. CLAIR	101	54
STA. 1+80		TO STA. 1+90		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

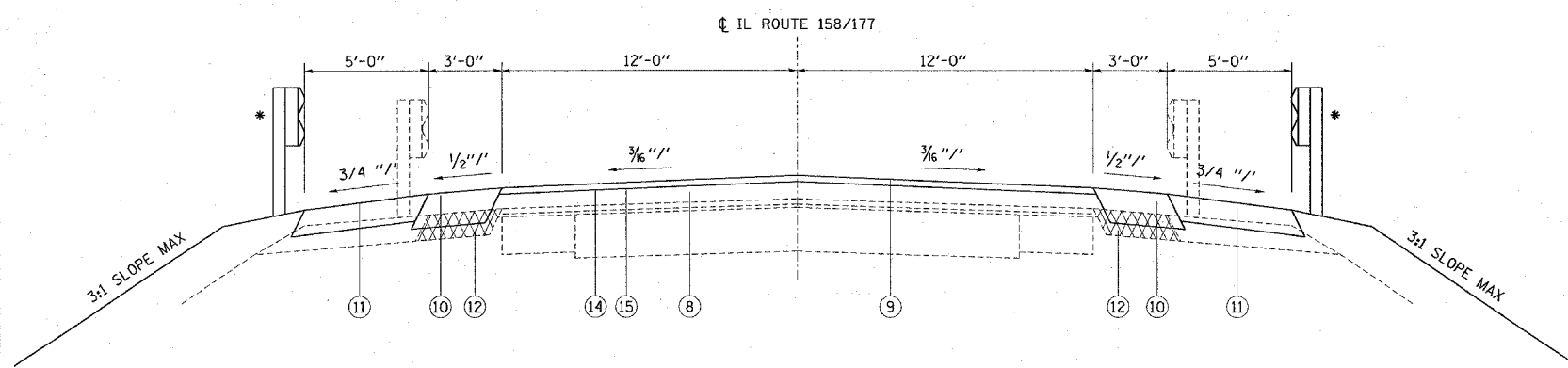
LEGEND

- ① EXISTING PCC PAVEMENT - 9"
- ② EXISTING PCC BASE COURSE WIDENING - 9"
- ③ EXISTING BITUMINOUS CONCRETE BINDER COURSE - 1 1/2 "
- ④ EXISTING BITUMINOUS LEVELING BINDER - 3/4 "
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE - 1 1/4 "
- ⑥ EXISTING BITUMINOUS SHOULDER - 6"
- ⑦ EXISTING AGGREGATE SHOULDER - 6"
- ⑧ PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE - VARIABLE DEPTH
- ⑨ PROPOSED BITUMINOUS SURFACE COURSE, SUPERPAVE - 1 1/2 "
- ⑩ PROPOSED BITUMINOUS SHOULDER, SUPERPAVE - 8"
- ⑪ PROPOSED AGGREGATE SHOULDER - 6"
- ⑫ PROPOSED PAVED SHOULDER REMOVAL - 6"
- ⑬ PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE - 9 1/2"
- ⑭ PROPOSED BITUMINOUS MATERIALS PRIME COAT
- ⑮ PROPOSED AGGREGATE (PRIME COAT)



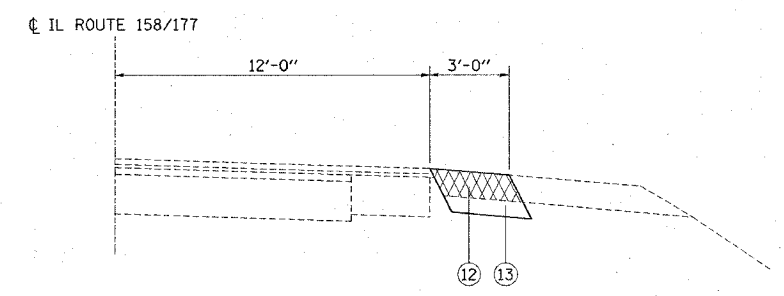
EXISTING TYPICAL SECTION

STA 352+60 TO STA 355+28
 STA 357+09 TO STA 360+20
 * STA 353+55.9 TO STA 357+18.4 RT
 STA 354+05.6 TO STA 358+81.1 LT



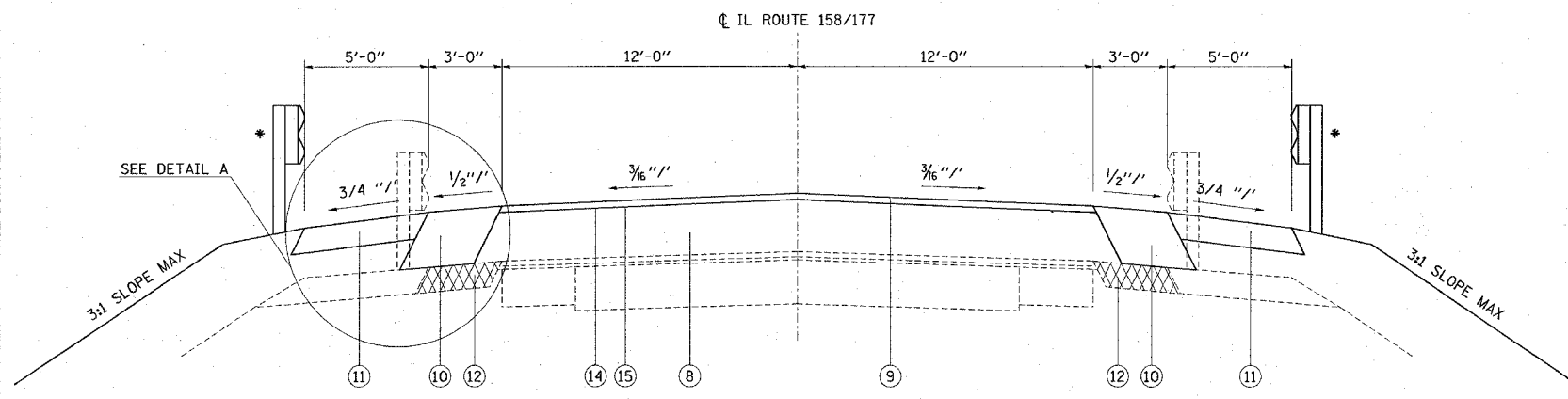
PROPOSED TYPICAL SECTION

STA 352+60 TO STA 354+50
 STA 358+30 TO STA 360+20
 * STA 353+55.9 TO STA 354+50 RT
 STA 354+05.6 TO STA 354+50 LT
 STA 358+45 TO STA 358+81.1 LT



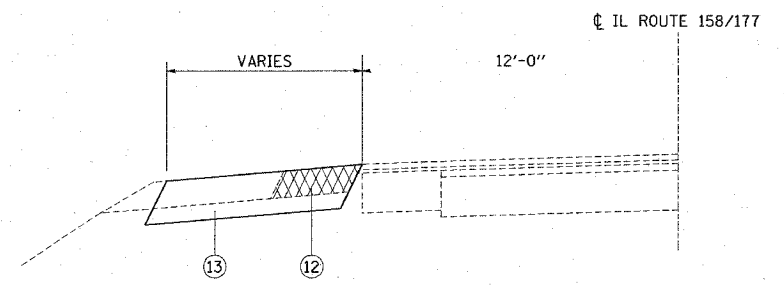
PROPOSED WIDENING FOR STAGE I CONSTRUCTION

STA 353+50 TO STA 355+82.4
 STA 356+54.1 TO STA 359+00



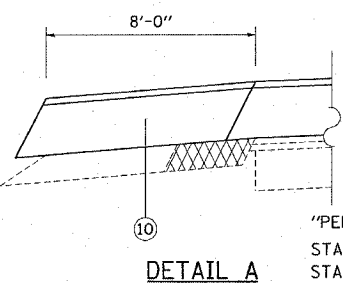
PROPOSED TYPICAL SECTION

STA 354+50 TO STA 355+28
 STA 357+09 TO STA 358+30
 * STA 354+55 TO STA 357+18.4 RT
 STA 354+50 TO STA 358+45 LT



PROPOSED WIDENING FOR STAGE II CONSTRUCTION

7'-6" - STA 353+50 TO STA 354+48
 8'-0" - STA 357+89 TO STA 358+50



DETAIL A

"PERMANENT PAVEMENT" FOR STAGE II TO REMAIN IN PLACE
 STA 354+78 TO STA 355+28 LT
 STA 357+09 TO STA 357+59 LT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION
 FAS ROUTE 1848
 SECTION 28-4BR
 ST. CLAIR COUNTY
 SN 082-0058(E) 0272(P)

PLOT DATE = 3/9/2006
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 REFERENCE = #REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	CHANNEL EXCAVATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO STATION	CU YD	CU YD	CU YD	CU YD	CUYD
SN 082-0272 CHANNEL					
STA 0+70.00 TO STA 2+20.00	1230				
SN 082-0272 MAINLINE					
STA 352+60.00 TO STA 355+64.00		66.0	49.5	188.5	-139.0
STA 356+73.00 TO STA 360+20.00		59.0	44.3	160.3	-116.0
SUBTOTAL	1230	125	93.8	348.8	-255

STAGING SCHEDULE

LOCATION	BITUMINOUS BASE COURSE SUPERPAVE, 9 1/2"	PAVEMENT REMOVAL	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)	IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW)
STAGE I	SQ YD	SQ YD	FOOT	FOOT	FOOT	EACH	EACH	EACH
SN 082-0058 (E) SN 082-0272 (P)								
STAGE I	159.3			375		2		
STAGE II	135.7	135.7	187.5		362.5		1	1
TOTAL	295	135.7	187.5	375	362.5	2	1	1

* NOT A TOTAL QUANTITY FOR THIS STRUCTURE. SEE RESURFACING SCHEDULE.

RESURFACING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE	BITUMINOUS SHOULDERS	AGGREGATE SHOULDERS, TYPE A, 6"	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	BITUMINOUS SURFACE REMOVAL - BUTT JOINT
STATION TO STATION	TON	TON	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD
SECTION 28-4BR SN 082-0272									
STA 352+60.00 TO STA 353+00.00	0.06	0.18	9.0	0	12.0	44.4		26.7	106.7
STA 353+00.00 TO STA 353+50.00	0.09	0.27	11.2	2.7	17.9	55.6		33.3	61.3
STA 353+50.00 TO STA 354+00.00	0.09	0.27	11.2	12.1	12.0	55.6		66.7	
STA 354+00.00 TO STA 354+50.00	0.09	0.27	11.2	45.8	18.1	55.6		66.0	
STA 354+50.00 TO STA 355+00.00	0.09	0.27	11.2	62.6	26.2	43.3		16.7	
STA 355+00.00 TO STA 355+28.00	0.04	0.13	6.4	60.4	29.8	15.6		9.4	
STA 355+28.00 TO STA 355+83.00							247.8	18.0	
STA 356+54.00 TO STA 357+09.00							263.2	18.4	
STA 357+09.00 TO STA 357+50.00	0.06	0.18	9.3	108.4	53.1	22.8		13.7	
STA 357+50.00 TO STA 358+00.00	0.09	0.27	11.2	60.5	17.4	50.5		20.4	
STA 358+00.00 TO STA 358+50.00	0.09	0.27	11.2	56.4	18.6	55.6		46.7	12.0
STA 358+50.00 TO STA 359+00.00	0.09	0.27	11.2	23.3	12.0	55.6		50.0	
STA 359+00.00 TO STA 359+50.00	0.09	0.27	11.2	25.8	17.9	55.6		33.3	
STA 359+50.00 TO STA 360+00.00	0.09	0.27	11.2	4.0	12.0	55.6		33.3	21.5
STA 360+00.00 TO STA 360+20.00	0.03	0.08	4.5	0	6.0	22.2		13.4	53.5
TOTAL	1	3	130	462	253	588	511	466	255

* NOT A TOTAL QUANTITY FOR THIS STRUCTURE. SEE STAGING SCHEDULE.

EROSION CONTROL SCHEDULE

LOCATION	RIGHT OR LEFT	PERIMETER EROSION BARRIER
STATION TO STATION		FOOT
STA 352+60 TO STA 355+60	RT	330
STA 353+08 TO STA 355+60	LT	274
STA 356+73 TO STA 357+18	RT	45
STA 356+90 TO STA 360+17	LT	327
STA 357+40 TO STA 358+38	RT	98
STA 358+48 TO STA 360+50	RT	202
TOTAL		1276

TEMPORARY RAMP SCHEDULE

LOCATION	WIDTH	LENGTH	TEMPORARY RAMP
	FOOT	FOOT	SQ YD
STAGE II			
STA 354+78	30	16.6	55.3
STA 355+28	5	16.6	9.2
STA 357+09	5	16.6	9.2
STA 357+09	50	10	55.6
STA 357+59	30	16.6	55.3
TOTAL			185

ALL QUANTITIES ON THIS SHEET ARE NOT TOTAL PROJECT QUANTITIES. THE QUANTITIES ON THIS SHEET ARE THE TOTAL FOR SN 082-0272.

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 1, SPC (TANGENT)	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	TRAFFIC BARRIER TERMINAL, TYPE 2	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	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
WB IL 177								3	1	1	
EB IL 177								4	2	2	
NW QUADRANT	175		50	1	1		1				1
NE QUADRANT	225		137.5	1	1		1				1
SW QUADRANT	225	137.5		1			1				1
SE QUADRANT	62.5	37.5					1	1			
TOTAL	687.5	175	187.5	3	2	1	4	7	3	3	3

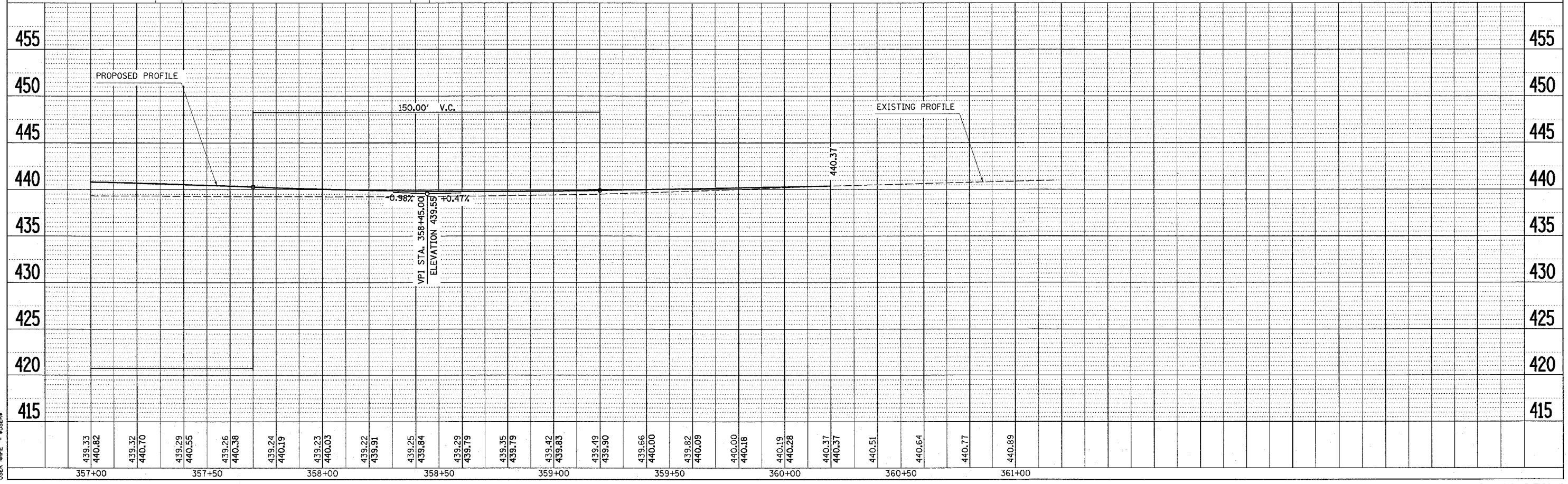
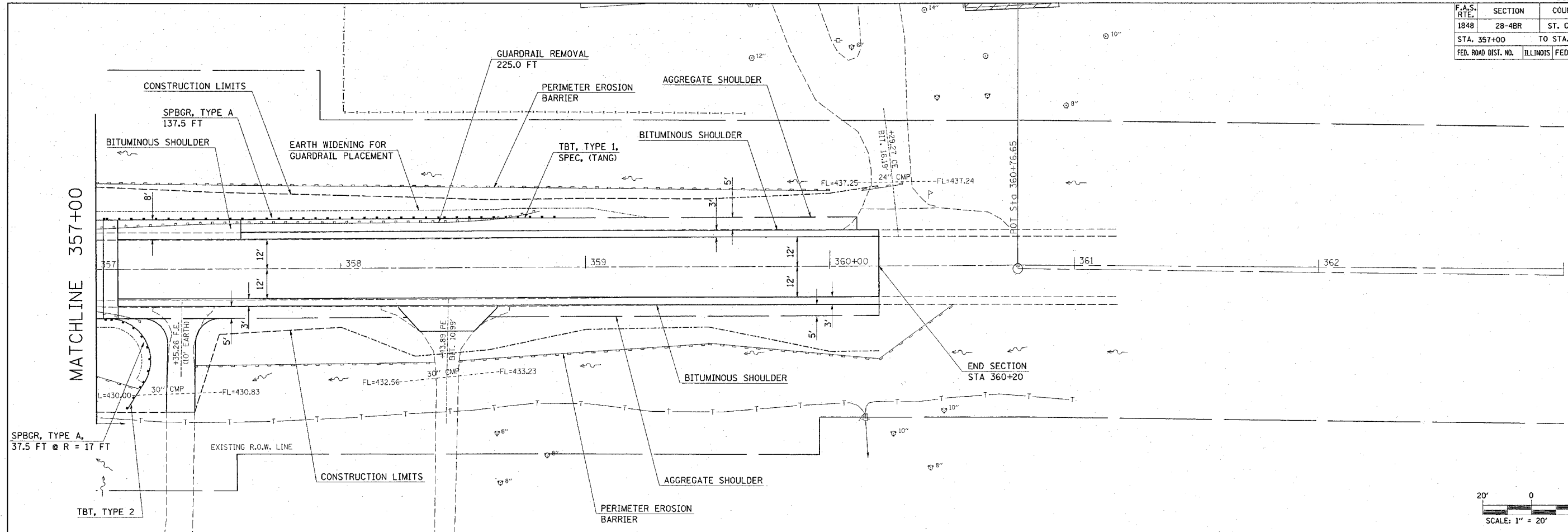
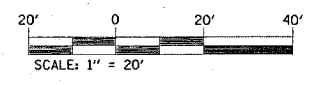
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	58
STA. 357+00		TO STA. 363+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		








PLAN	DATE
REVISIONS	BY
NOTED	
ALIGNED	
CHECKED	
FILED	
NO.	

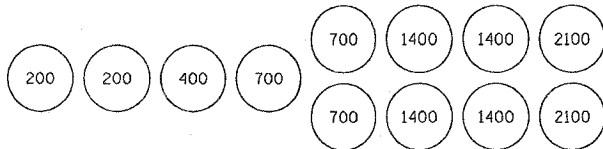
PROFILE	DATE
REVISIONS	BY
NOTED	
CHECKED	
FILED	
NO.	

PLOT DATE = DATE
 PLOT SCALE = SCALES
 USER NAME = USER

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	60
STA. 351+50		TO STA. 357+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LEGEND

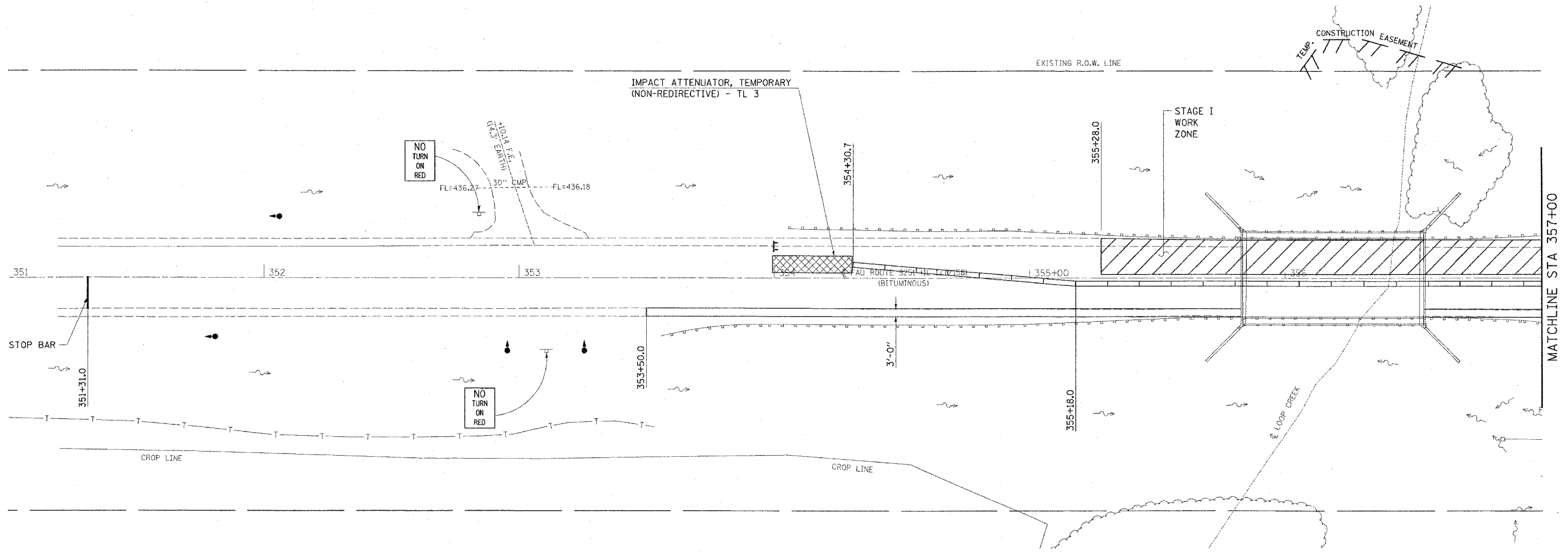
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)

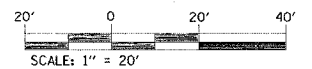


PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	



SEQUENCE OF CONSTRUCTION - STAGE I:

- PLACE 3.0' "BITUMINOUS BASE COURSE, SUPERPAVE, 9 1/2 INCH" ON BOTH ENDS OF THE STRUCTURE 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 375 FT TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATORS, TEMPORARY.
- SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)






REVISIONS	
NAME	DATE

DRAWN BY:

PLOT DATE: 3/22/2006

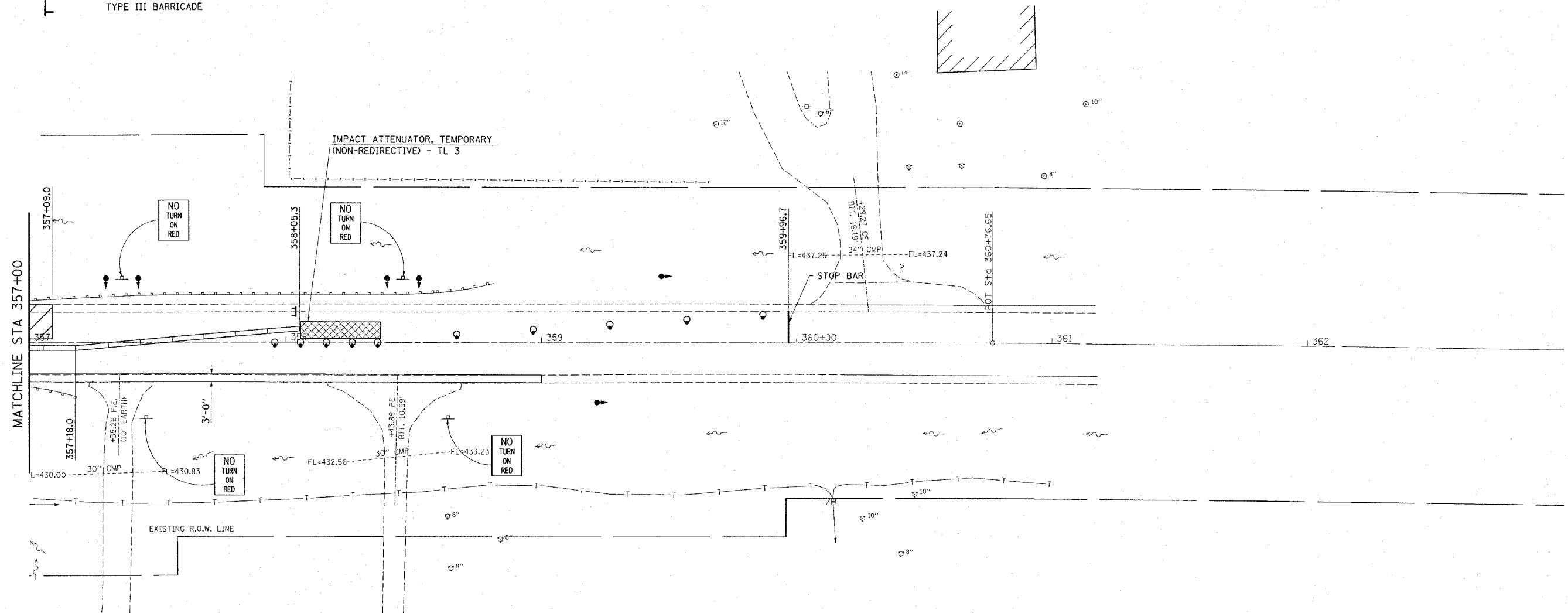
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	61
STA. 357+50		TO STA. 363+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	
NO.	CHECKED	
	FIELD FILE	
	NO. USED	



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

DRAWN BY:






PLOT DATE: *DATE-TIME*

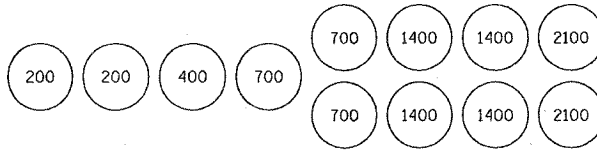
REVISIONS	
NAME	DATE

DATE-TIME
DON-SPEC
REF-0081ROW.STGD
REF-0068ROW.STGD

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	62
STA. 351+50		TO STA. 357+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

LEGEND

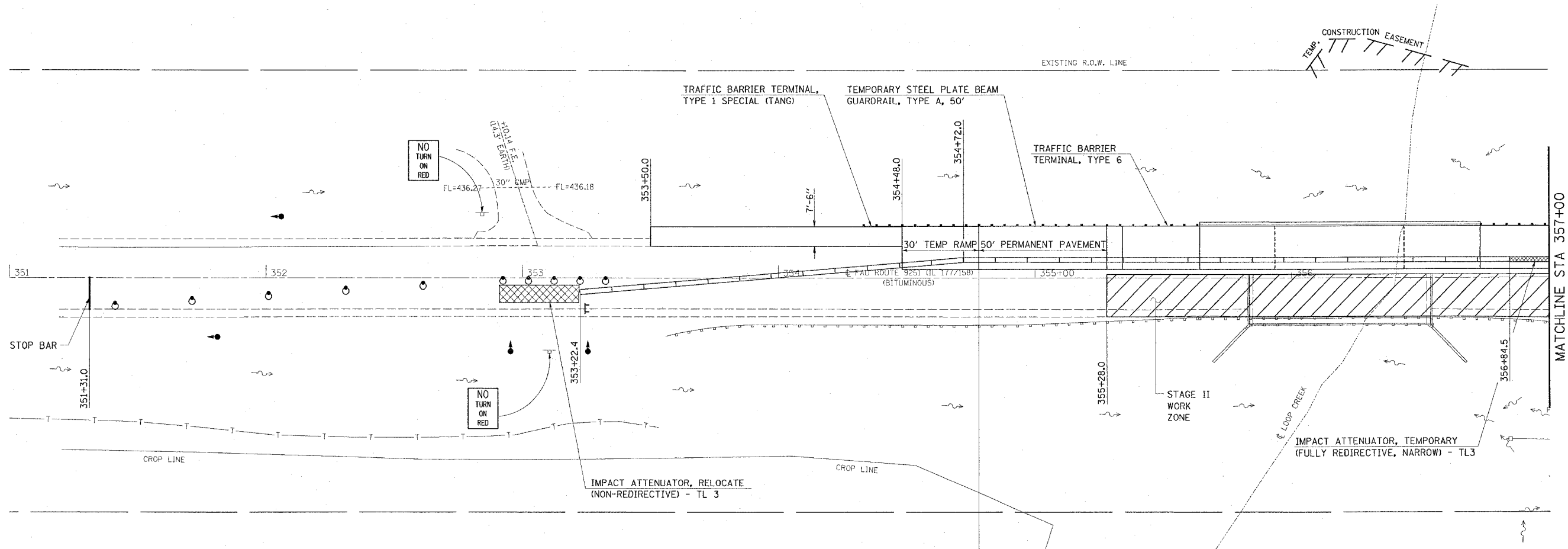
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



SAND MODULE IMPACT ATTENUATOR LAYOUT
(IF OPTION USED)



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	
NO.	ROAD FILE NAME	



SEQUENCE OF CONSTRUCTION - STAGE II:

PLACE 50 FT PERMANENT PAVEMENT ON BOTH ENDS OF THE STRUCTURE. PERMANENT PAVEMENT SHALL BE BINDER ONLY, LEAVING THE ROADWAY 1.5 INCH LOWER AT THE CONNECTOR. PLACE 5 FT TEMPORARY RAMP AT CONNECTOR. TAPER END OF BINDER TO 9 INCHES THICK AND PLACE 30 FT TEMPORARY RAMP. SEE TEMPORARY RAMP DETAIL.

PLACE "BITUMINOUS BASE COURSE, SUPERPAVE 9 1/2 INCH" ON BOTH ENDS OF THE STRUCTURE. 7.5' FROM STA 353+50.0 LT TO STA 354+48.0 LT AND 8.0' FROM STA 357+89.0 LT TO STA 358+50.0 LT.

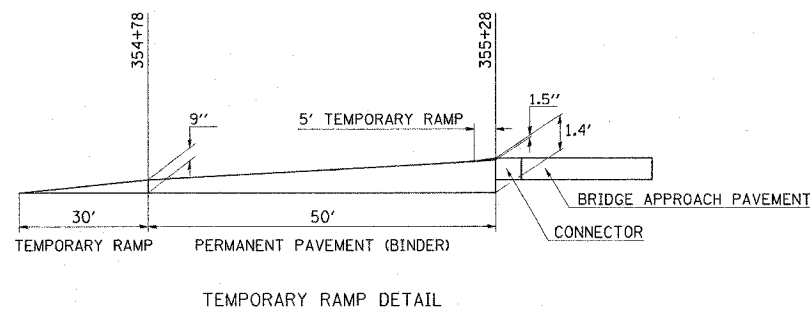
PLACE TRAFFIC BARRIER TERMINAL, TYPE 1 & TYPE 6 AND TEMPORARY GUARDRAIL ON BOTH ENDS OF STRUCTURE.

RELOCATE 362.5 FT OF TEMPORARY CONCRETE BARRIER.

RELOCATE 1 EACH IMPACT ATTENUATORS ON WEST END AND ADD IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW) - TL3 TO EAST END OF BARRIER TO KEEP FIELD ENTRANCE ACCESSIBLE.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

AFTER STRUCTURE IS COMPLETE, REMOVE BARRIER AND PAVE STAGE II IN THE SAME DAY. BARRELS MAY BE USED DURING PAVING IN PLACE OF THE CONCRETE BARRIER.



TEMPORARY RAMP DETAIL



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE II CONSTRUCTION

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

DRAWN BY:






PLOT DATE: 3/22/2006

REVISIONS	
NAME	DATE

3/22/2006
 082-0058(E) 0272(P)
 REF-0058(E) 0272(P)
 REF-0058(E) 0272(P)

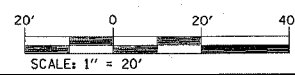
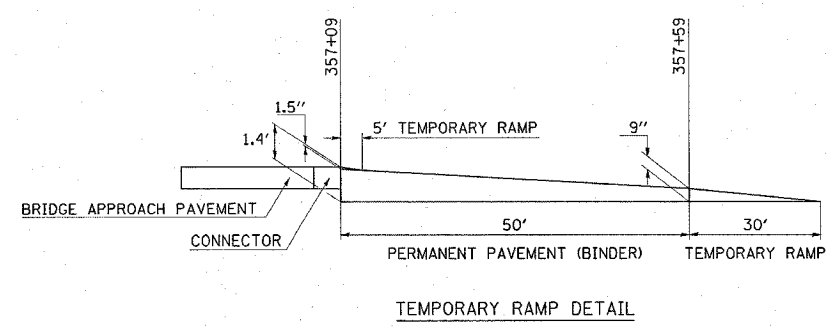
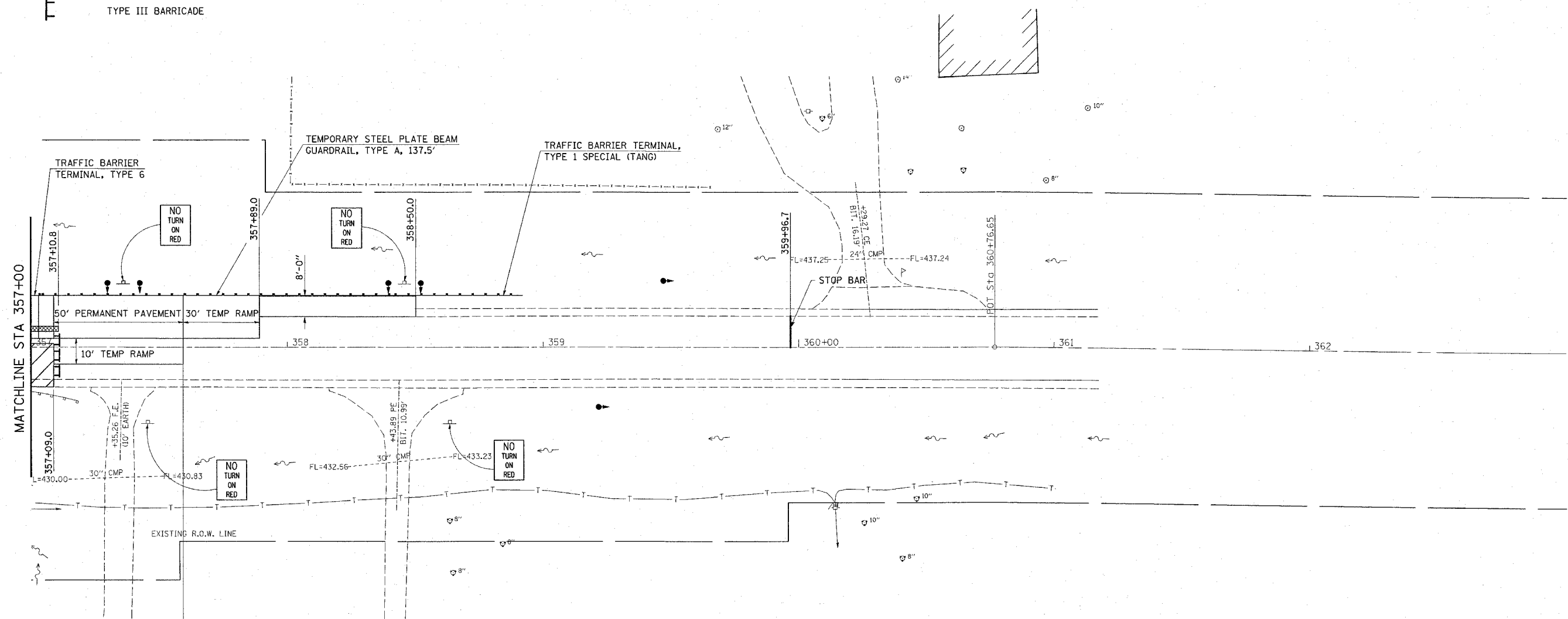
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	63
STA. 357+50		TO STA. 363+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  BARRELS OR BARRICADES WITH STEADY BURNING LIGHT
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  TYPE III BARRICADE



PLAN	SUBMITTED	DATE
NOTE BOOK NO.	PLOTTED	BY
	CHECKED	
	BY	
	PAID FILE NAME	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE II CONSTRUCTION

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

DRAWN BY:

PLOT DATE: *DATE-TIME*

88047EN
DON-SPEC
*REF-0058d/11e.stg02b
*REF-0058d/11e.stg02b
*REF-0058d/11e.stg02b
*REF-0058d/11e.stg02b

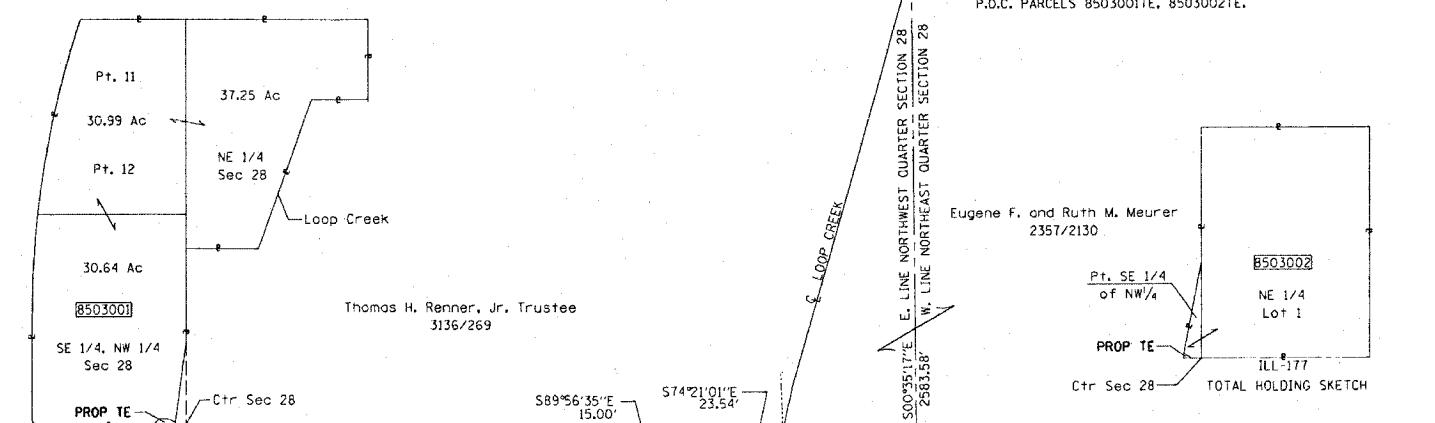
PART OF THE NW 1/4 OF SECTION 28, T1N, R7W, OF THE 3RD PM, ST CLAIR COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

SECTION	COUNTY	TAX SALES	DATE
28-4BR	ST CLAIR	101	04
STA.	TO STA.		
FED. ROAD DIST. NO.	MILES	FED. AID PROJECT	

COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

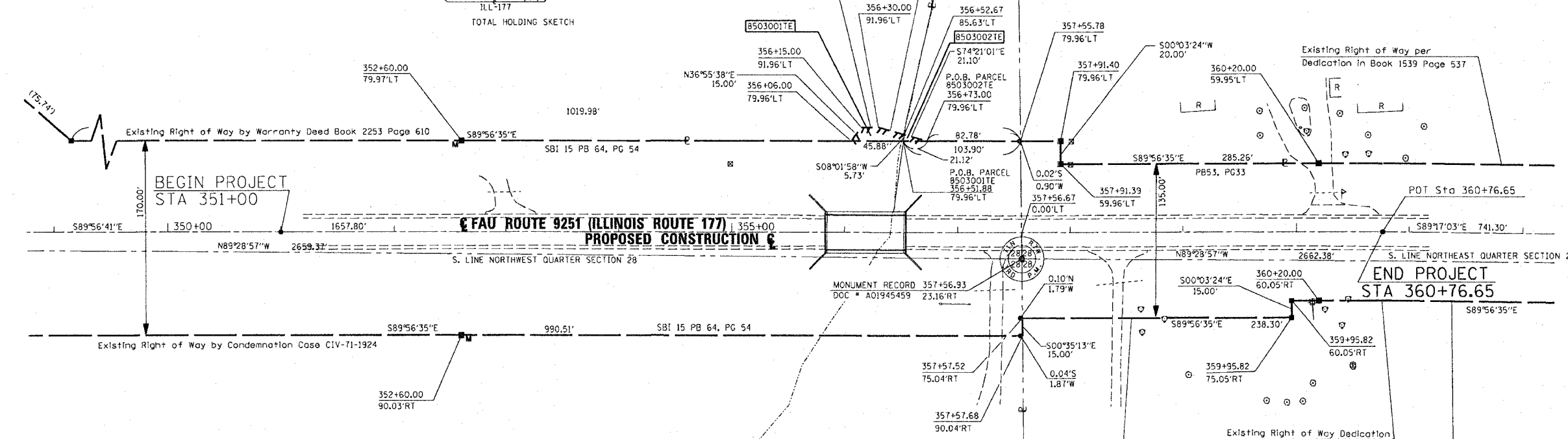
COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
354+91.41	79.97' LT	669497.5100	2377770.6490
354+91.39	79.96' LT	669497.2120	2378070.6520
357+91.39	59.96' LT	669477.2120	2378070.6320
359+95.82	75.05' RT	669342.0090	2378274.9230
359+95.82	60.00' RT	669357.0550	2378274.3800
356+06.00	79.96' RT	669497.3962	2377885.2564
356+73.00	79.76' LT	669497.3296	2377952.2563
356+15.00	91.96' LT	669509.3872	2377894.2679
356+30.00	91.96' LT	669509.3723	2377909.2679
357+55.78	79.96' LT	669497.2474	2378035.0317
360+76.65	0.00' RT	669416.9798	2378355.8306
357+57.68	90.04' RT	669327.2455	2378036.7767
352+60.00	90.03' RT	669327.7393	2377539.0930
352+60.00	79.97' LT	669497.7392	2377539.2565
360+20.00	59.95' LT	699476.9850	2378299.2359
360+20.00	60.05' RT	669356.9850	2378299.1215
352+00.00	0.00'	669418.5741	2376698.0600
360+76.65	0.00'	669416.9798	2378355.8306



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION (123.45)
- RECORDED DIMENSION (123.45)
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- FOUND 5/8 INCH IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- FOUND ROW MARKER
- FOUND CONCRETE MONUMENT
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 66701 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING BUILDING

NO.	DATE	DESCRIPTION	BY



- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

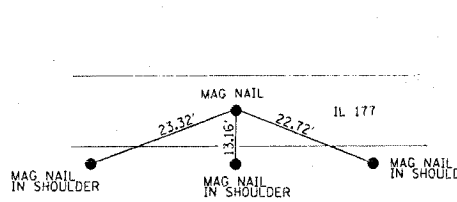
STATE OF ILLINOIS)
COUNTY OF)

I, TERRY J. FELDMANN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

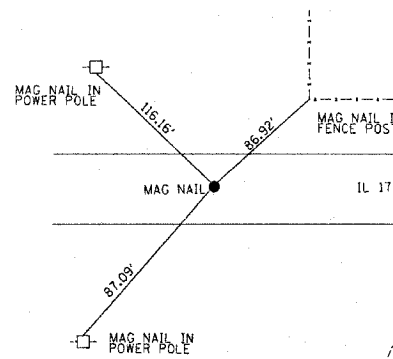
DATED _____
TERRY J. FELDMANN, PLS NO. 2973
LICENSE EXPIRATION DATE: 11/30/2006



TIES TO CL STATION 351+00
• TIES PROVIDED BY IDOT •



TIES TO CL STATION 360+76.65
• TIES PROVIDED BY IDOT •



NOTE: TOTAL HOLDINGS TAKEN FROM SIDWELL

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			PE = PERMANENT ACRES	TE = TEMPORARY SO. FT.		
8503001	THOMAS H. RENNER, JR. AS TRUSTEE TITLE REPORT NO. SC-4819	98.88	TE 0.0099	TE 432	09-28-0-100-008	
8503002	EUGENE F. AND RUTH M. MEURER TITLE REPORT NO. SC-4820	11.6784	TE 0.0014	TE 60	09-28-0-100-009	

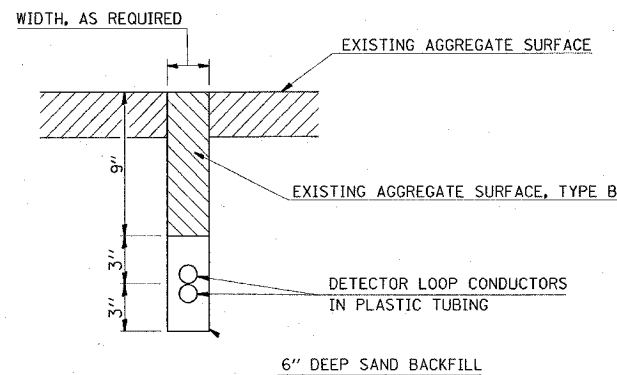
COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: MARCH 16, 2005
RIGHT OF WAY STAKING: APRIL 21, 2005

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAU ROUTE 9251 (IL 177)
SECTION 28-4BR
ST CLAIR COUNTY
JOB NO. R-98-003-05
STATION 352+60 TO STATION 360+20
SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198
SHEET 1 IS A COVER SHEET

ADDITIONAL SHEETS: 100N-SPEC, 100N-REF, 100N-REF, 100N-REF

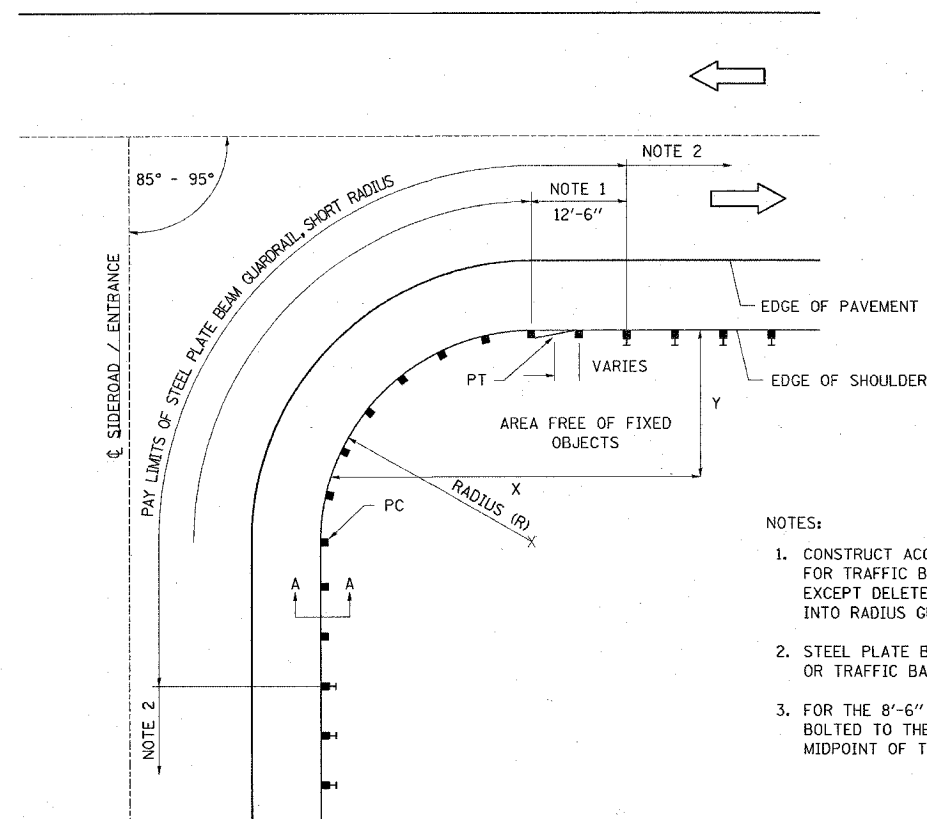
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	65
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETAIL
DETECTOR LOOP INSTALLED IN TRENCH

INSTALLATION IS TO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE PLANS AND SECTION 886 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS:

1. SLOTS ARE TO BE TRENCHED INSTEAD OF SAWED.
2. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.



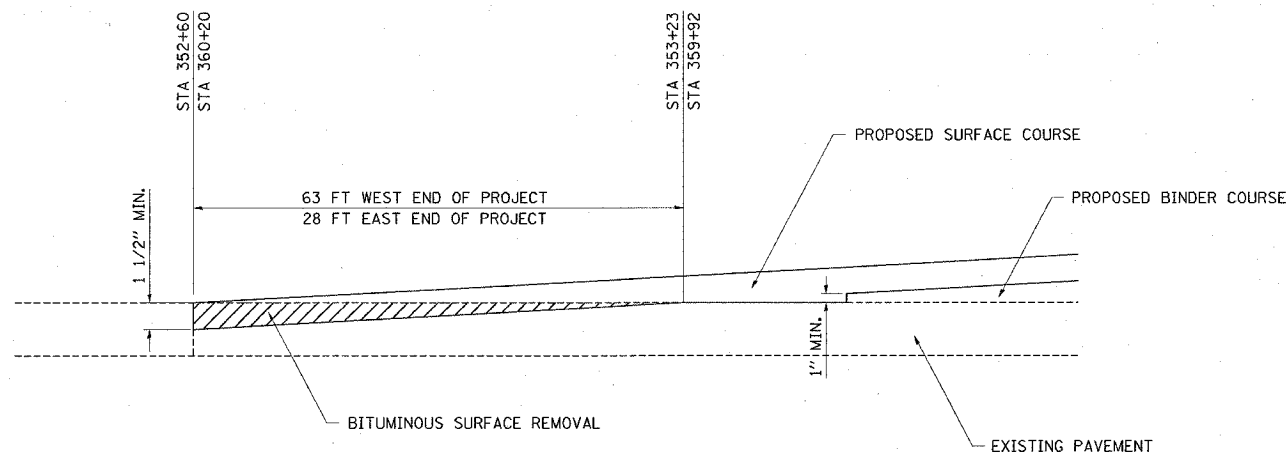
PLAN VIEW SHORT RADIUS GUARDRAIL DETAIL

NOT TO SCALE

NOTES:

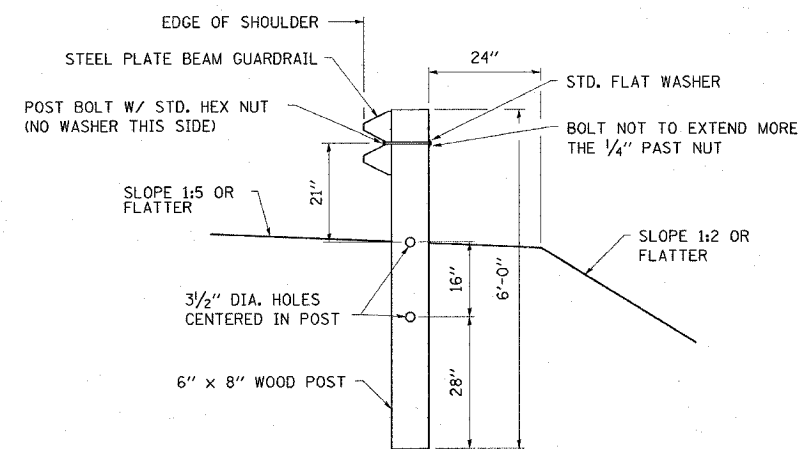
1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
3. FOR THE 8'-6" RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.

R	NO. OF WOOD POSTS	X	Y
8'-6"	5 (NOTE 3)	25'	15'
17'-0"	6	30'	15'
25'-6"	8	40'	20'
35'-0"	11	50'	20'



BUTT JOINT DETAIL
SN 082-0058(E) 0272(P)

NOTE: BUTT JOINT AT PRIVATE ENTRANCE STA 358+43.89 RT
BITUMINOUS SURFACE REMOVAL - 2" THICKNESS



SECTION A-A

NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

PLOT DATE = 2/7/2006
 PLOT SCALE = 1/8" = 1'-0"
 PLOT NAME = 28-4BR-0272(P)
 REFERENCE = 886

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	66
STA. 351+00		TO STA. 357+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA 351+31.0 TO STA 355+34.0

THERMOPLASTIC PAVEMENT MARKING LINES

4" YELLOW 100 FT
4" WHITE 806 FT

STA 355+34.0 TO STA 357+00.0

POLYUREA PAVEMENT MARKING LINES

4" YELLOW 40 FT
4" WHITE 332 FT

STA 351+31.0 TO STA 352+60.0

RAISED REFLECTIVE PAVEMENT MARKERS

DOUBLE AMBER 3 EACH

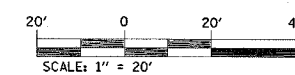
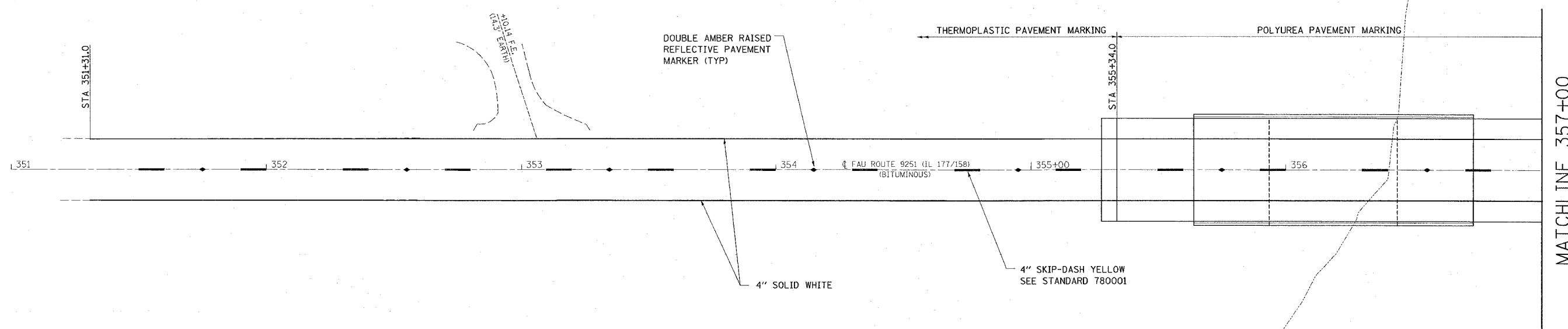
RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)

SINGLE AMBER 2 EACH

STA 352+60.0 TO STA 355+34.0

REPLACEMENT REFLECTOR

DOUBLE AMBER 2 EACH



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING
 FAS ROUTE 1848
 SECTION 28-4BR
 ST. CLAIR COUNTY
 SN 082-0058 (E) 0272(P)
 DRAWN BY:

PLOT DATE = 2/7/2006
 FILE NAME = c:\pwork\pavement\2400\plan\pavement.dgn
 PLOT NUMBER = 7 / 11
 REFERENCE = REF#

Bench Mark: R.R. spike in 60" Cottonwood, 233' Lt. of Sta. 356+56, Elev. 437.49.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Contract #76394

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	63
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1

22 SHEETS

Existing Structure: S.N. 082-0058 was originally built as a single span bridge approximately 35 ft. long supported on closed abutments with either timber piles or spread footings. In 1959 the bridge was removed, and a longer 2-span slab bridge was constructed as S.B.I. Rte. 15, Sec. 28-BR. The existing structure is 73'-0" bk. to bk. abutments and 36'-4" out to out deck. The abutments and wing walls are on timber pile supported footings. At the pier, the deck is cast integral with precast concrete piles. The existing structure is to be removed and replaced utilizing stage construction.

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted. Calculated weight of Structural Steel AASHTO M270 Grade 50 = 54,960 lbs. AASHTO M270 Grade 36 = 9,900 lbs.

All Construction joints shall be bonded. In addition to all other requirements of section 512 of the Standard Specifications, splices for HP12x74 piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

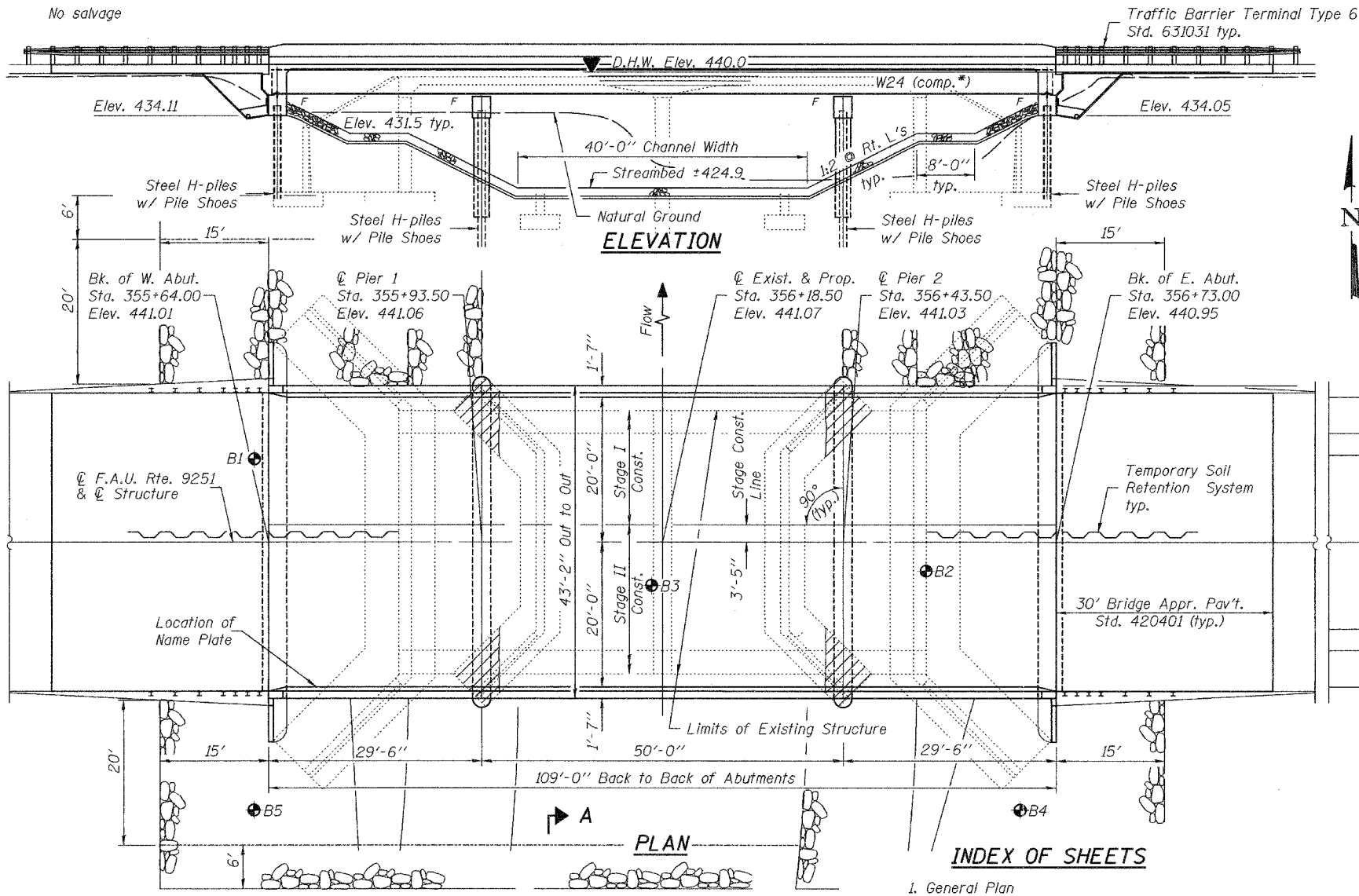
Field welding of construction accessories will not be permitted to beams. Anchor bolts shall be set before bolting diaphragms over supports. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

The Inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray Munsell No. 5B 7/1. See special provisions for Cleaning and Painting New Metal Structures.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall saw cut the existing abutments at the stage removal line before Stage I Removal.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ ". Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{2}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. The Contractor shall remove portions of the existing concrete footings in order to drive the piling at the proposed piers. Cost included in Removal of Existing Structures.

The Contractor is advised that the existing concrete superstructure is a continuous structure and removal must be done in a proper sequence, possibly with falsework support. For Sec. A-A, see sheet 2 of 22.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures, N2	Each			1
Structure Excavation	Cu. Yd.		264	264
* Pipe Underdrains for Structures, 4"	Foot		140	140
* Porous Granular Embankment - Special Geocomposite Wall Drain	Cu. Yd.		90	90
Protective Coat	Sq. Yd.	576.5		576.5
Concrete Structures	Cu. Yd.		134.8	134.8
Concrete Superstructure	Cu. Yd.	153.0		153.0
Furnishing & Erecting Structural Steel	L. Sum			0.39
Stud Shear Connectors	Each	2310		2310
Bridge Deck Grooving	Sq. Yd.	460.2		460.2
Reinforcement Bars, Epoxy Coated	Pound	37,800	11,340	49,140
* Furnishing Steel Piles HP12x74	Foot		1540	1540
* Driving Piles	Foot		1540	1540
* Temporary Soil Retention System	Sq. Ft.		460	460
Name Plates	Each	1		1
Stone Riprap, Class A5	Sq. Yd.		1425	1425
Filter Fabric	Sq. Yd.		1610	1610
* Underwater Structure Excavation Protection - Location 1	Each		1	1
* Underwater Structure Excavation Protection - Location 2	Each		1	1
Bar Splicers	Each	414	86	500
Pile Shoes	Each		28	28

WATERWAY INFORMATION

Low Grade Elev. 439.22 @ Sta. 358+18 (Existing)
 Drainage Area = 9.7 Sq. Mi. Low Grade Elev. 439.79 @ Sta. 358+70 (Proposed)

Flood Yr.	Freq.	Q C.F.S.	Opening Exist.	Opening Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Prop.
10	4297	437	866	439.17	1.02	1.33	440.19	440.50	
Design	50	6189	437	866	440.03	2.34	0.64	442.37	440.67
Base	100	7156	437	866	440.43	2.07	0.63	442.50	441.06
Overtop. (E)	3.3	2700	437		438.20	1.02		439.22	
Overtop. (P)	5.5	3400		866	438.67		1.12	439.79	

Hatched area indicates removal of existing concrete footings. Cost included in "Removal of Existing Structures."

DESIGNED: Michael D. Collins
 CHECKED: Robert J. Collins
 DRAWN: W.D. Collins
 CHECKED: MDC, RJC

EXAMINED: [Signature] March 17, 2006
 PASSED: [Signature] ENGINEER OF BRIDGES AND STRUCTURES



Expires Nov 30, 2006

1. General Plan
2. General Details
3. Stage Construction
4. Temporary Concrete Barrier
5. Top of Slab Elevations
6. Top of Slab Elevations
7. Superstructure
8. Superstructure Details
9. Diaphragm Details
10. Structural Steel
11. Structural Steel Details
12. Bearing Details
13. Anchor Bolt Details
14. West Abutment
15. East Abutment
16. Pier 1
17. Pier 2
18. Bar Splicer Assembly Details
19. Cantilever Forming Brackets
20. Boring Details
21. Boring Details
22. Boring Details

PROFILE GRADE

(along ϕ roadway)
 L = 300 ft.
 +0.84%
 -0.98%

LOADING HL93

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

DESIGN SPECIFICATIONS

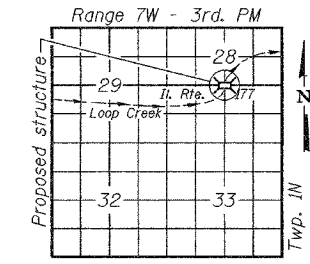
2004 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Gr. 50, structural steel)
 $f_y = 36,000$ psi (AASHTO M270 Gr. 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Bedrock Acceleration Coefficient (A) = 0.12g
 Site Coefficient (S) = 1.0



LOCATION SKETCH

GENERAL PLAN
 ILLINOIS ROUTE 177 OVER
 LOOP CREEK
 F.A.S. ROUTE 1848 - SECTION 28-4BR
 ST. CLAIR COUNTY
 STATION 356+18.50
 STRUCTURE NO. 082-0272

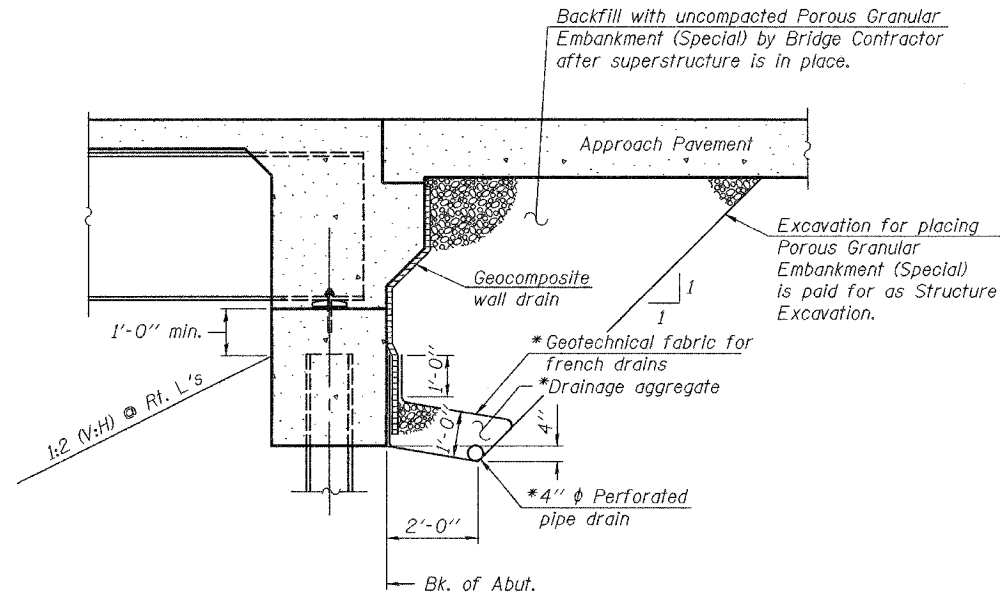
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	69
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #76394

SHEET NO. 2

22 SHEETS

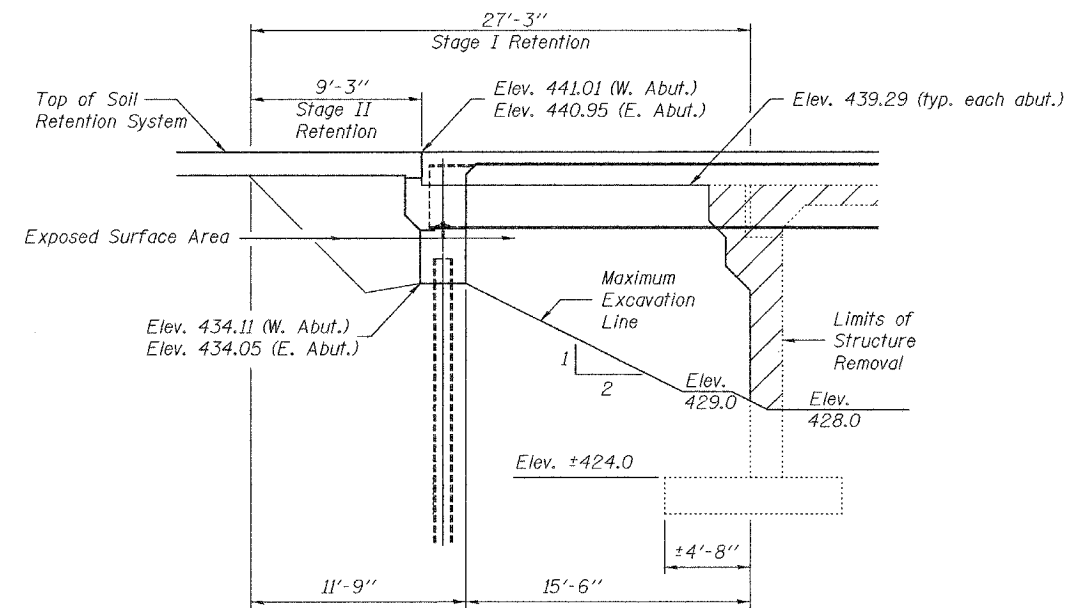


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

* 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).



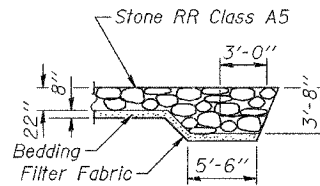
TEMPORARY SOIL RETENTION SYSTEM FOR STAGE CONSTRUCTION

(W. Abutment shown, E. Abutment similar except rotated 180°)

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

STATION 356+18.50
BUILT 200 BY
STATE OF ILLINOIS
F.A.U. ROUTE 9251 - SECTION 28-4BR
LOADING HL-93
STR. NO. 082-0272

NAME PLATE
See Sid. 515001



**SEC. A-A
FLANK STONE RIPRAP DETAIL**

Note: The flank detail shall be used along both the upstream and downstream ends of the riprap treatment.

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

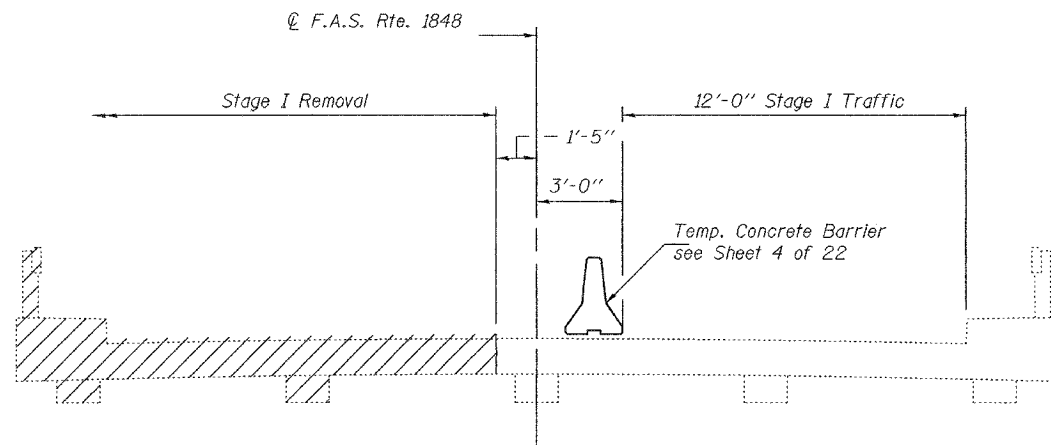
March 17, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

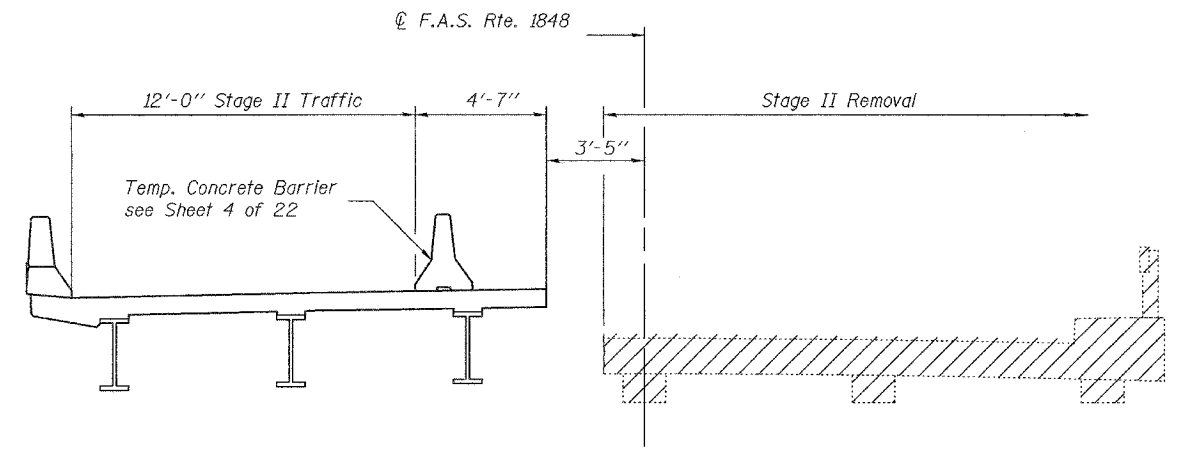
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 22 SHEETS
F.A.S. 1848	28-4BR	ST. CLAIR	101	70	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

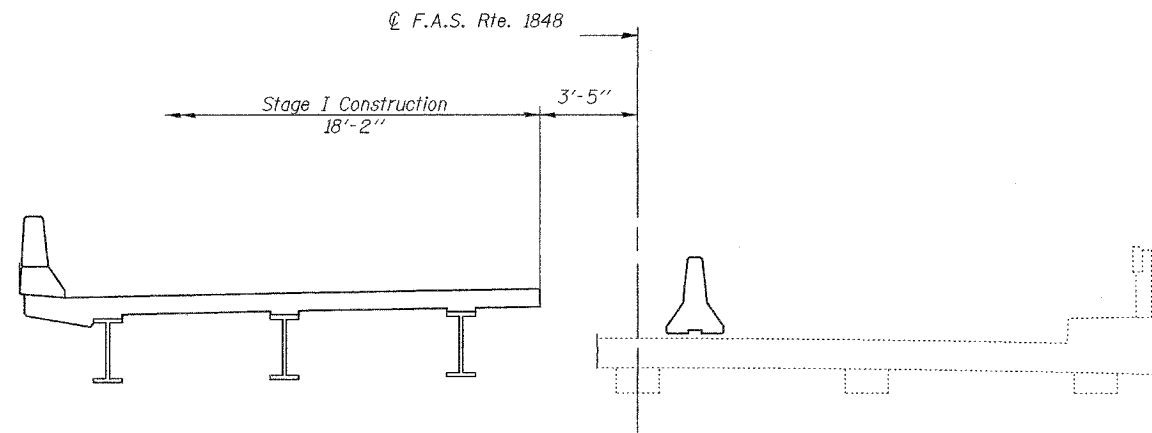
Contract #76394



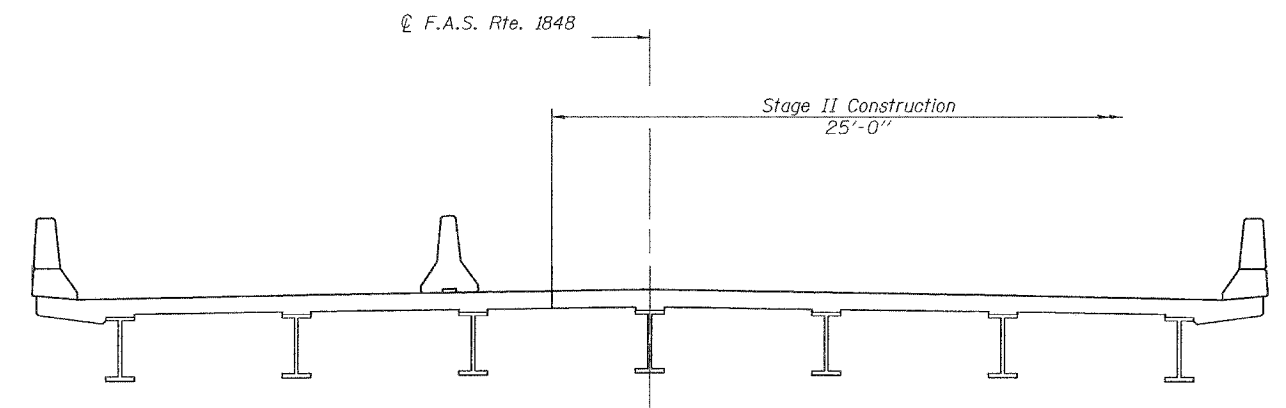
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

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

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Demagalaki*
ENGINEER OF PUBLIC DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

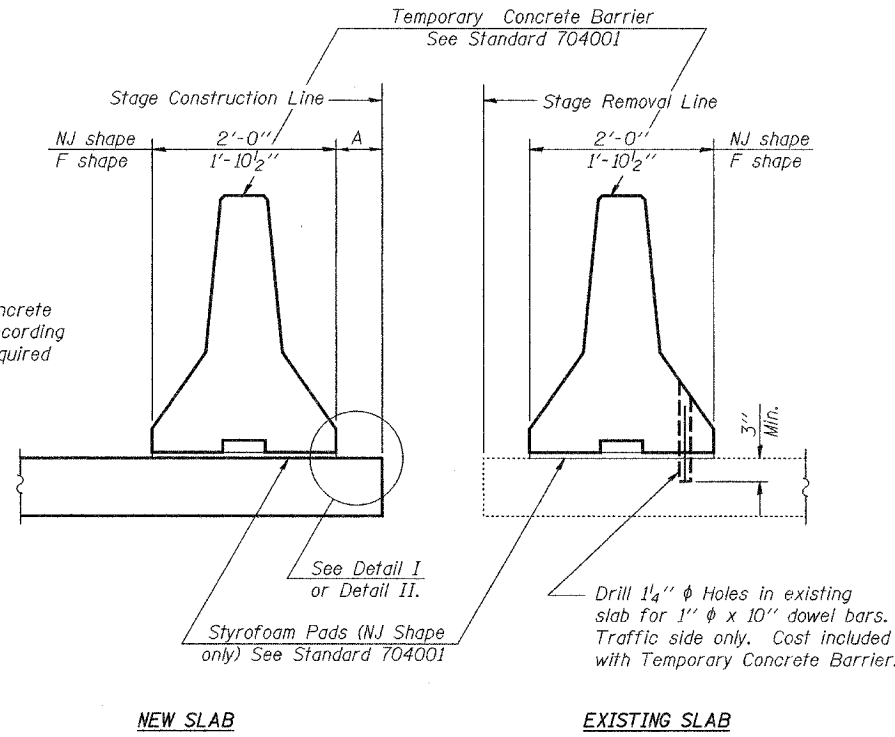
STAGE CONSTRUCTION
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	71
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #76394

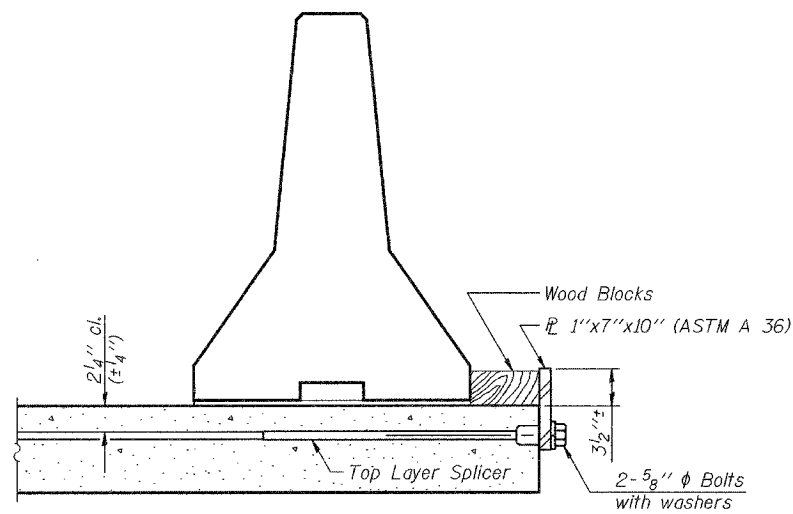
SHEET NO. 4
22 SHEETS



SECTION THRU SLAB

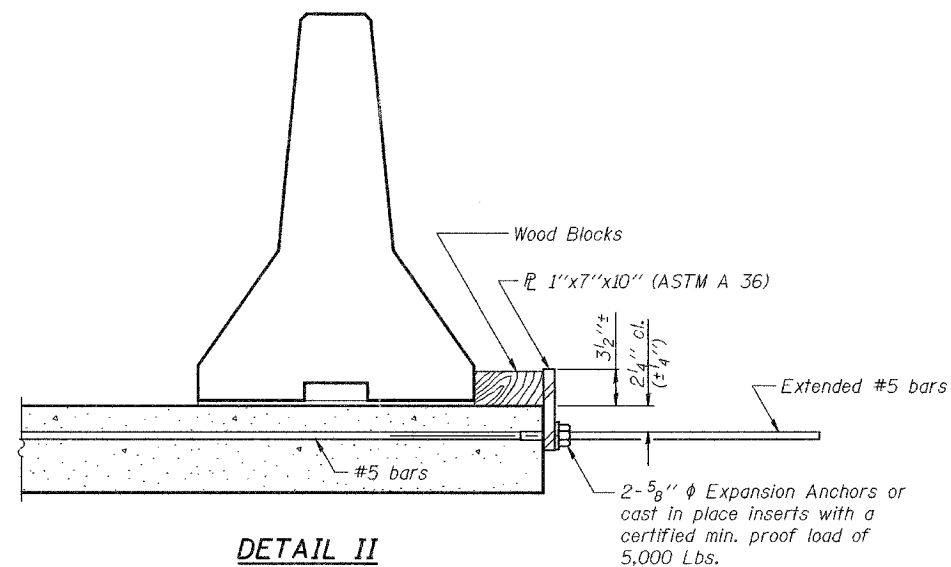
NOTES

- 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 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.



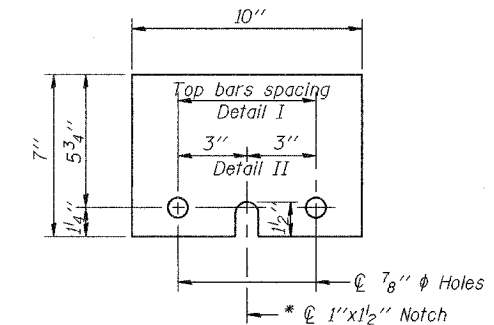
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" 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.



1"x7"x10"

* Required only with Detail II

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006

EXAMINED *Thomas J. Damagalaki*
ENGINEER OF PUBLIC DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

R-27

10-22-04

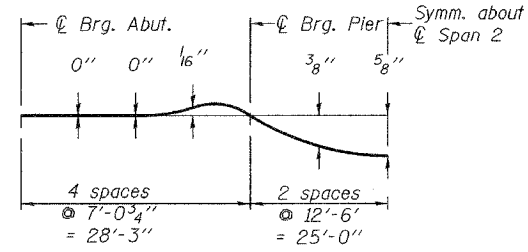
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	72
FED. ROAD DEPT. NO. 7	BILLINGS	FED. AID PROJECT		

SHEET NO. 5
22 SHEETS

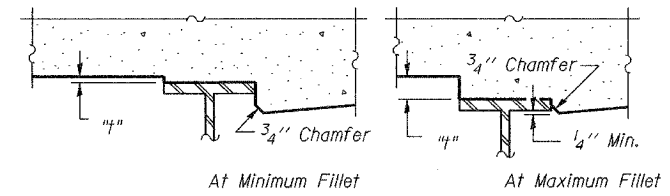
Contract #76394



DEAD LOAD DEFLECTION DIAGRAM

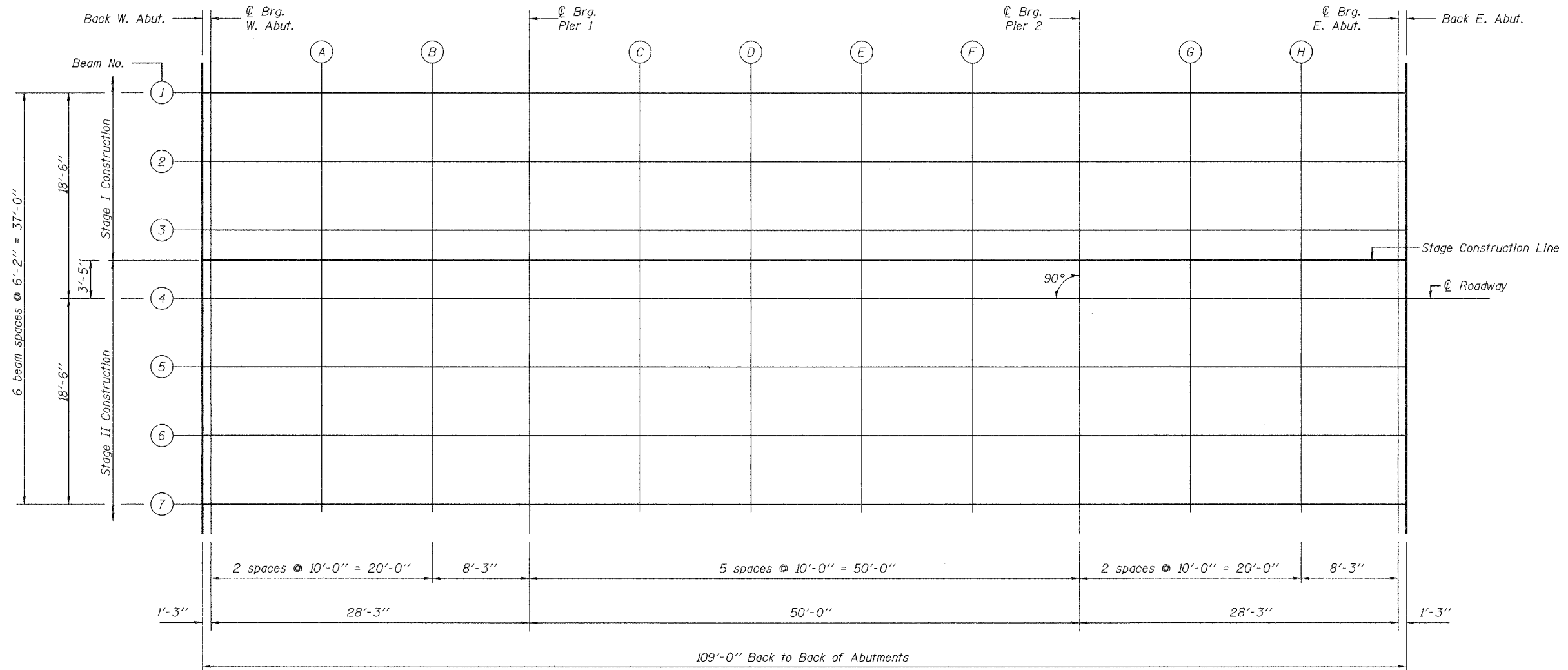
(Includes weight of concrete only.)

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



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 22, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

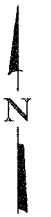


PLAN

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	73
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
22 SHEETS

Contract #76394

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	-18.500	440.689	440.689
CL Brg. W. Abut.	35565.250	-18.500	440.692	440.692
A	35575.250	-18.500	440.715	440.715
B	35585.250	-18.500	440.732	440.728
CL Pier 1	35593.500	-18.500	440.742	440.742
C	35603.500	-18.500	440.748	440.773
D	35613.500	-18.500	440.748	440.792
E	35623.500	-18.500	440.742	440.786
F	35633.500	-18.500	440.730	440.755
CL Pier 2	35643.500	-18.500	440.712	440.712
G	35653.500	-18.500	440.687	440.684
H	35663.500	-18.500	440.657	440.657
CL Brg. E. Abut.	35671.750	-18.500	440.627	440.627
Bk. East Abut.	35673.000	-18.500	440.622	440.622

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	-12.333	440.817	440.817
CL Brg. W. Abut.	35565.250	-12.333	440.820	440.820
A	35575.250	-12.333	440.844	440.844
B	35585.250	-12.333	440.861	440.857
CL Pier 1	35593.500	-12.333	440.870	440.870
C	35603.500	-12.333	440.876	440.901
D	35613.500	-12.333	440.876	440.920
E	35623.500	-12.333	440.870	440.914
F	35633.500	-12.333	440.858	440.883
CL Pier 2	35643.500	-12.333	440.840	440.840
G	35653.500	-12.333	440.816	440.813
H	35663.500	-12.333	440.785	440.785
CL Brg. E. Abut.	35671.750	-12.333	440.756	440.756
Bk. East Abut.	35673.000	-12.333	440.751	440.751

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	-6.167	440.915	440.915
CL Brg. W. Abut.	35565.250	-6.167	440.919	440.919
A	35575.250	-6.167	440.942	440.942
B	35585.250	-6.167	440.959	440.955
CL Pier 1	35593.500	-6.167	440.968	440.968
C	35603.500	-6.167	440.974	440.999
D	35613.500	-6.167	440.974	441.018
E	35623.500	-6.167	440.968	441.012
F	35633.500	-6.167	440.956	440.981
CL Pier 2	35643.500	-6.167	440.938	440.938
G	35653.500	-6.167	440.914	440.911
H	35663.500	-6.167	440.883	440.883
CL Brg. E. Abut.	35671.750	-6.167	440.854	440.854
Bk. East Abut.	35673.000	-6.167	440.849	440.849

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	-3.417	440.958	440.958
CL Brg. W. Abut.	35565.250	-3.417	440.962	440.962
A	35575.250	-3.417	440.985	440.985
B	35585.250	-3.417	441.002	440.998
CL Pier 1	35593.500	-3.417	441.011	441.011
C	35603.500	-3.417	441.017	441.042
D	35613.500	-3.417	441.017	441.061
E	35623.500	-3.417	441.011	441.055
F	35633.500	-3.417	441.011	441.024
CL Pier 2	35643.500	-3.417	440.981	440.981
G	35653.500	-3.417	440.957	440.954
H	35663.500	-3.417	440.926	440.926
CL Brg. E. Abut.	35671.750	-3.417	440.897	440.897
Bk. East Abut.	35673.000	-3.417	440.892	440.892

BEAM 4, P.G. & Q ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	0.000	441.012	441.012
CL Brg. W. Abut.	35565.250	0.000	441.015	441.015
A	35575.250	0.000	441.038	441.038
B	35585.250	0.000	441.055	441.051
CL Pier 1	35593.500	0.000	441.065	441.065
C	35603.500	0.000	441.071	441.096
D	35613.500	0.000	441.071	441.115
E	35623.500	0.000	441.065	441.108
F	35633.500	0.000	441.053	441.078
CL Pier 2	35643.500	0.000	441.034	441.034
G	35653.500	0.000	441.010	441.007
H	35663.500	0.000	440.980	440.980
CL Brg. E. Abut.	35671.750	0.000	440.950	440.950
Bk. East Abut.	35673.000	0.000	440.945	440.945

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	6.167	440.915	440.915
CL Brg. W. Abut.	35565.250	6.167	440.919	440.919
A	35575.250	6.167	440.942	440.942
B	35585.250	6.167	440.959	440.955
CL Pier 1	35593.500	6.167	440.968	440.968
C	35603.500	6.167	440.974	440.999
D	35613.500	6.167	440.974	441.018
E	35623.500	6.167	440.968	441.012
F	35633.500	6.167	440.956	440.981
CL Pier 2	35643.500	6.167	440.938	440.938
G	35653.500	6.167	440.914	440.911
H	35663.500	6.167	440.883	440.883
CL Brg. E. Abut.	35671.750	6.167	440.854	440.854
Bk. East Abut.	35673.000	6.167	440.849	440.849

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	12.333	440.817	440.817
CL Brg. W. Abut.	35565.250	12.333	440.820	440.820
A	35575.250	12.333	440.844	440.844
B	35585.250	12.333	440.861	440.857
CL Pier 1	35593.500	12.333	440.870	440.870
C	35603.500	12.333	440.876	440.901
D	35613.500	12.333	440.876	440.920
E	35623.500	12.333	440.870	440.914
F	35633.500	12.333	440.858	440.883
CL Pier 2	35643.500	12.333	440.840	440.840
G	35653.500	12.333	440.816	440.813
H	35663.500	12.333	440.785	440.785
CL Brg. E. Abut.	35671.750	12.333	440.756	440.756
Bk. East Abut.	35673.000	12.333	440.751	440.751

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	35564.000	18.500	440.689	440.689
CL Brg. W. Abut.	35565.250	18.500	440.692	440.692
A	35575.250	18.500	440.715	440.715
B	35585.250	18.500	440.732	440.728
CL Pier 1	35593.500	18.500	440.742	440.742
C	35603.500	18.500	440.748	440.773
D	35613.500	18.500	440.748	440.792
E	35623.500	18.500	440.742	440.786
F	35633.500	18.500	440.730	440.755
CL Pier 2	35643.500	18.500	440.712	440.712
G	35653.500	18.500	440.687	440.684
H	35663.500	18.500	440.657	440.657
CL Brg. E. Abut.	35671.750	18.500	440.627	440.627
Bk. East Abut.	35673.000	18.500	440.622	440.622

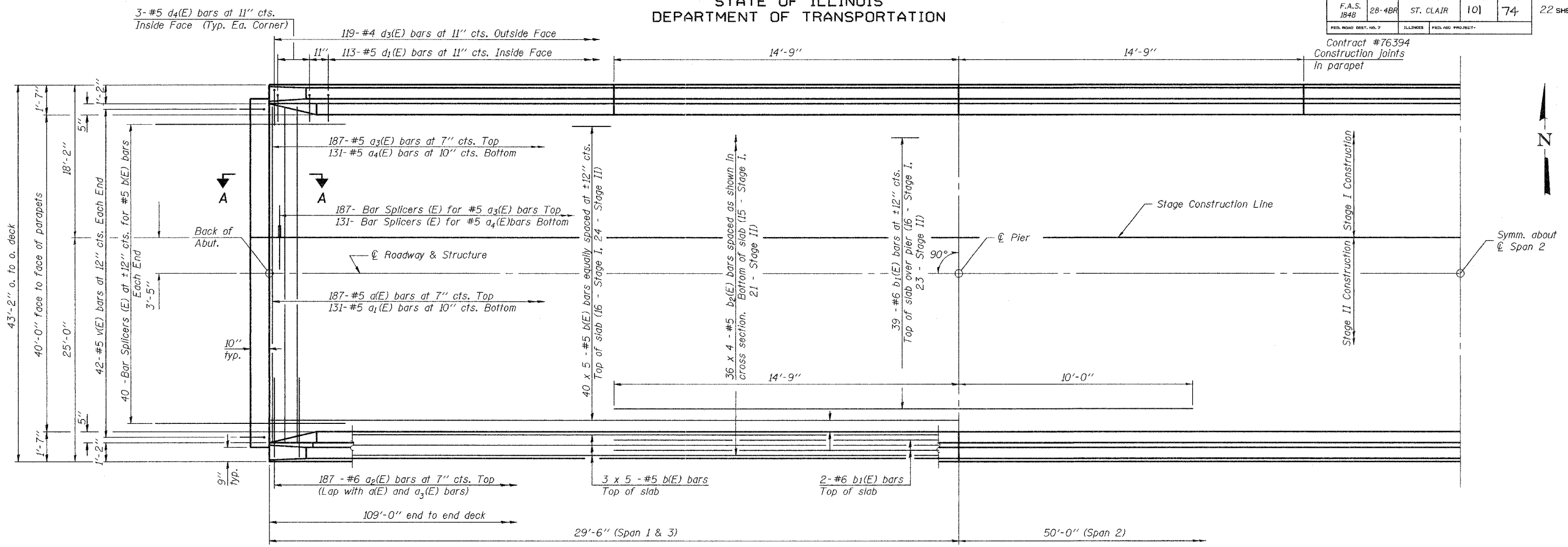
DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

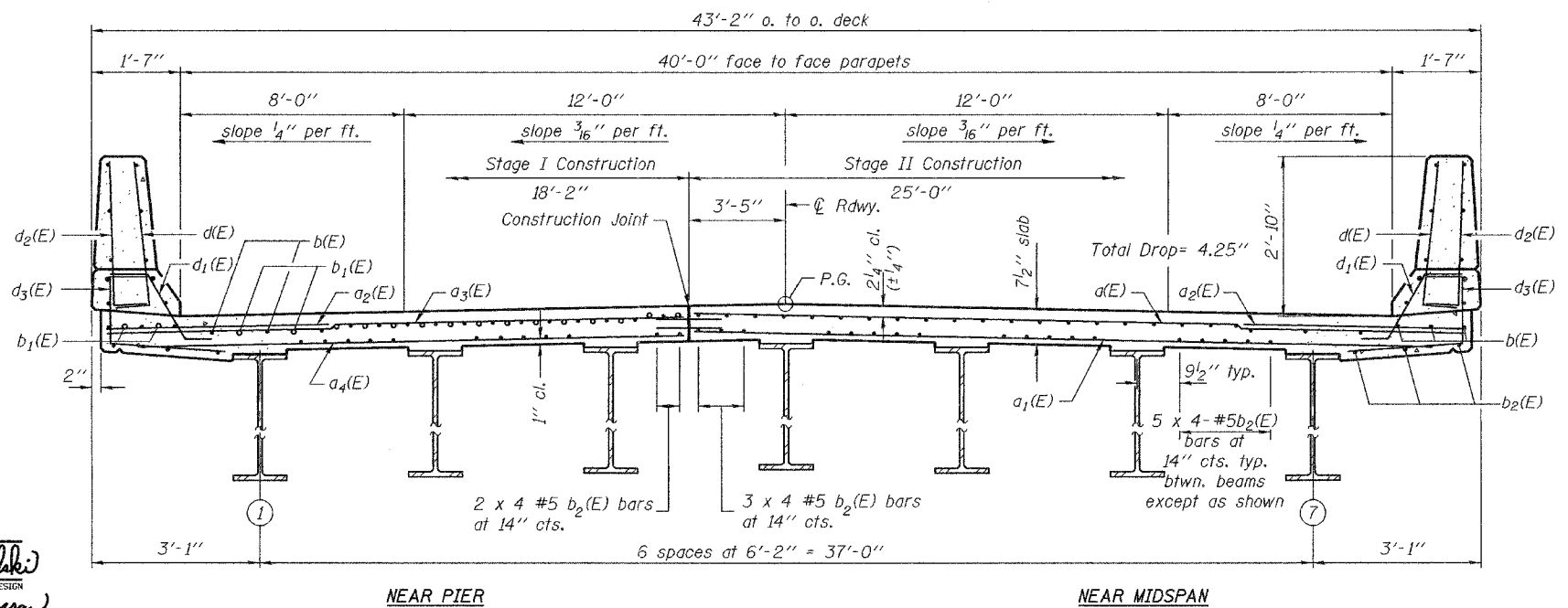
TOP OF SLAB ELEVATIONS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	74
SHEET NO. 7 22 SHEETS				



HALF PLAN



CROSS SECTION
(Looking East)

Notes:
See Sheet 8 of 22 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 8 of 22 for parapet reinforcement.
For bar splicer details see sheet 18 of 22

MIN. BAR LAPS
#5 bar = 2'-2"

SUPERSTRUCTURE
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

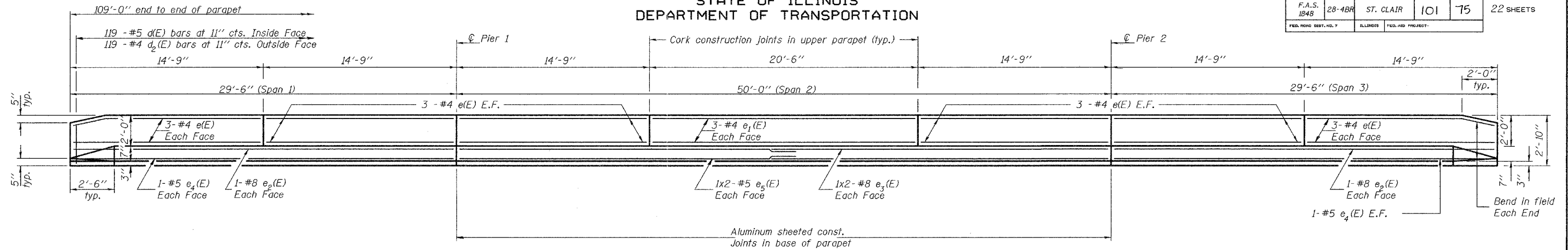
March 17, 2006
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SI-2-0 10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Contract #76394

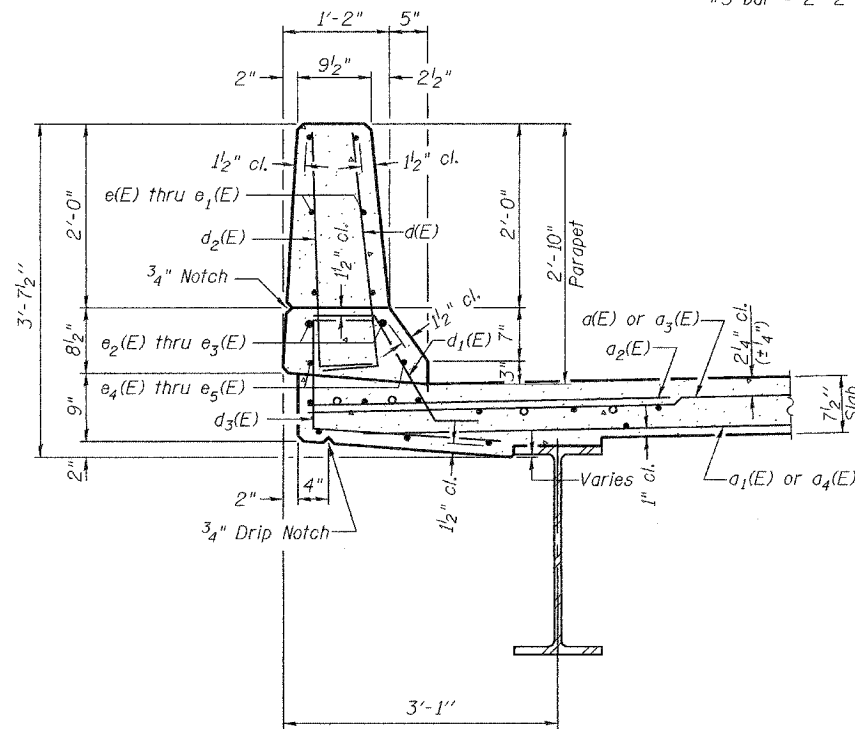
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	75	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			22 SHEETS



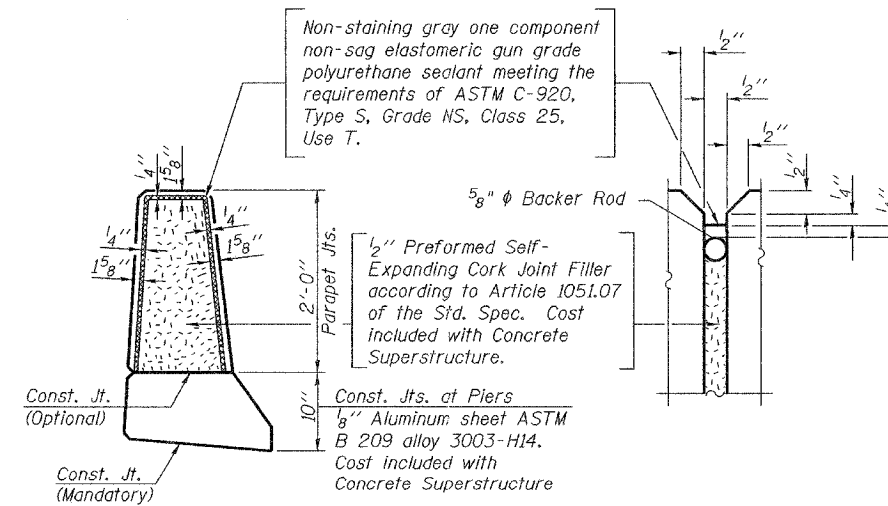
MINIMUM BAR LAPS

#8 bar = 4'-6"
#5 bar = 2'-2"

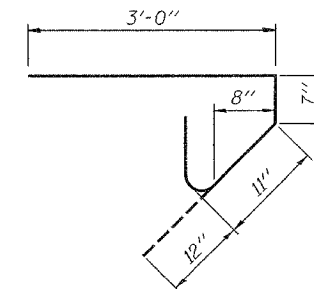
INSIDE ELEVATION OF PARAPET



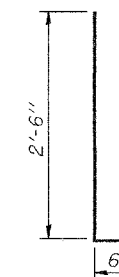
SECTION THRU PARAPET



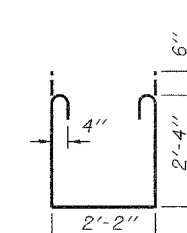
PARAPET JOINT DETAILS



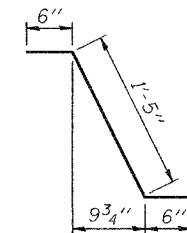
BAR s(E)



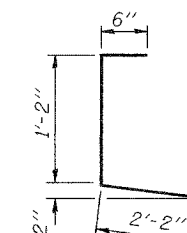
BARS d(E) & d2(E)



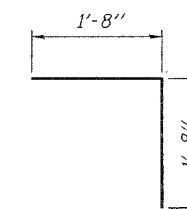
BAR s1(E)



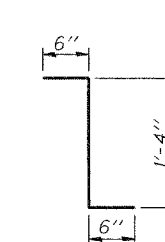
BAR d1(E)



BAR d3(E)



BAR v(E)



BAR d4(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	187	#5	24'-6"	—
a1(E)	131	#5	23'-6"	—
a2(E)	374	#6	6'-0"	—
a3(E)	187	#5	17'-8"	—
a4(E)	131	#5	17'-0"	—
b(E)	230	#5	24'-0"	—
b1(E)	86	#6	24'-9"	—
b2(E)	144	#5	29'-5"	—
d(E)	238	#5	3'-0"	┌
d1(E)	226	#5	2'-5"	┌
d2(E)	238	#4	3'-0"	┌
d3(E)	238	#4	3'-10"	┌
d4(E)	12	#5	2'-4"	┌
e(E)	72	#4	14'-5"	—
e1(E)	12	#4	20'-2"	—
e2(E)	8	#8	29'-2"	—
e3(E)	8	#8	27'-1"	—
e4(E)	8	#5	29'-2"	—
e5(E)	8	#5	26'-0"	—
m(E)	4	#6	24'-1"	—
m1(E)	6	#6	24'-8"	—
m2(E)	28	#6	7'-7"	—
m3(E)	10	#6	5'-10"	—
m4(E)	8	#6	2'-10"	—
m5(E)	4	#6	17'-3"	—
m6(E)	6	#6	17'-10"	—
s(E)	96	#5	5'-6"	┌
s1(E)	84	#4	7'-10"	┌
v(E)	84	#5	3'-4"	┌
Reinforcement Bars, Epoxy Coated		Pound		37,800
Concrete Superstructure		Cu. Yds.		153.0

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2 - #5 etc. indicates 1 line of bars with 2 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

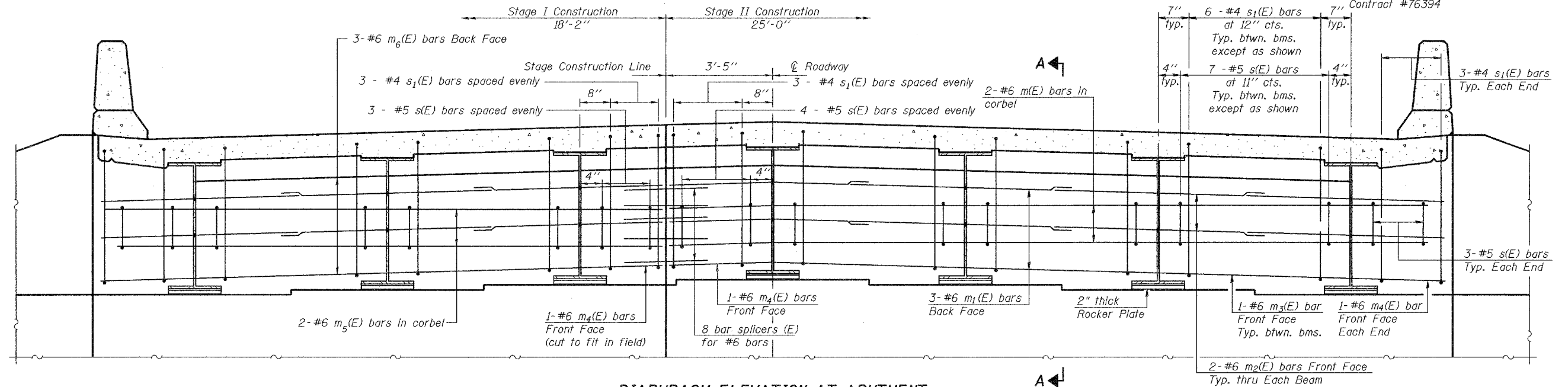
DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

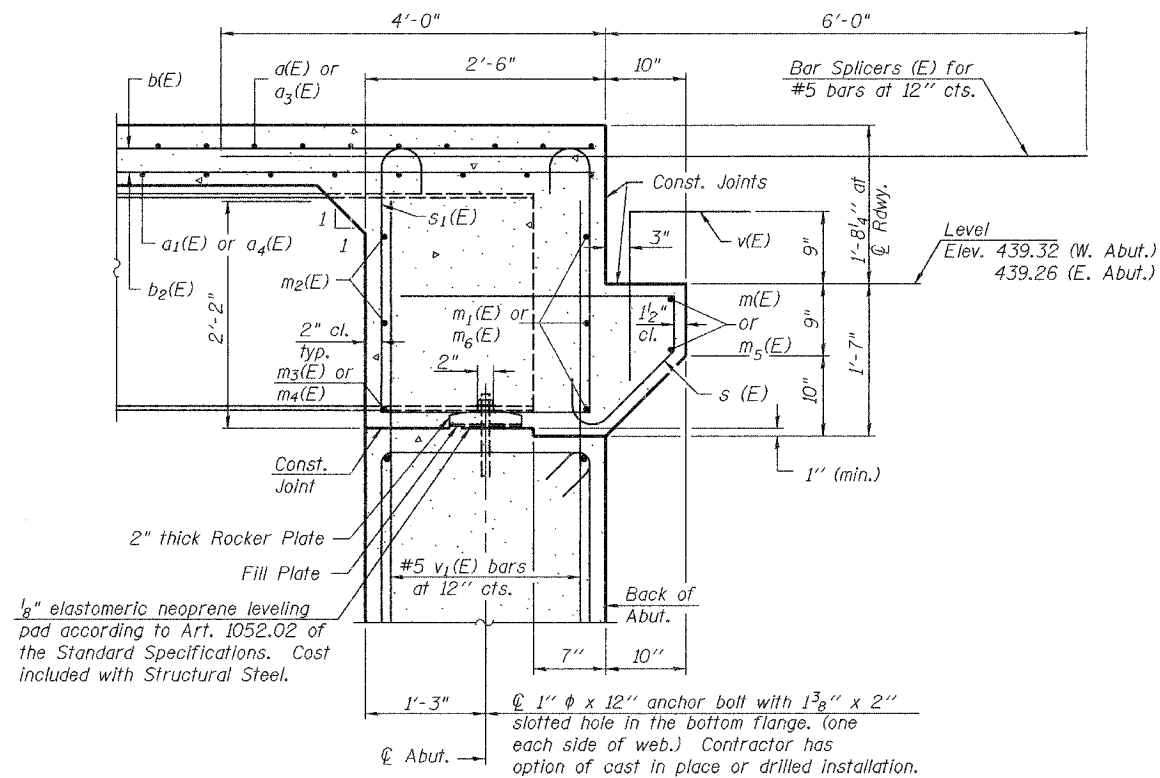
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	76
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #76394



DIAPHRAGM ELEVATION AT ABUTMENT
(Looking East)
West Abutment similar by rotation of 180°

MIN. BAR LAP
#6 bar = 2'-9"



SECTION A-A

Dimensions at right angles to abutment.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 22.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 22.
For details of bars s(E) & s1(E) see sheet 8 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.
For anchor bolt details see sheet 12 of 22.
For bar splicer details see sheet 18 of 22.

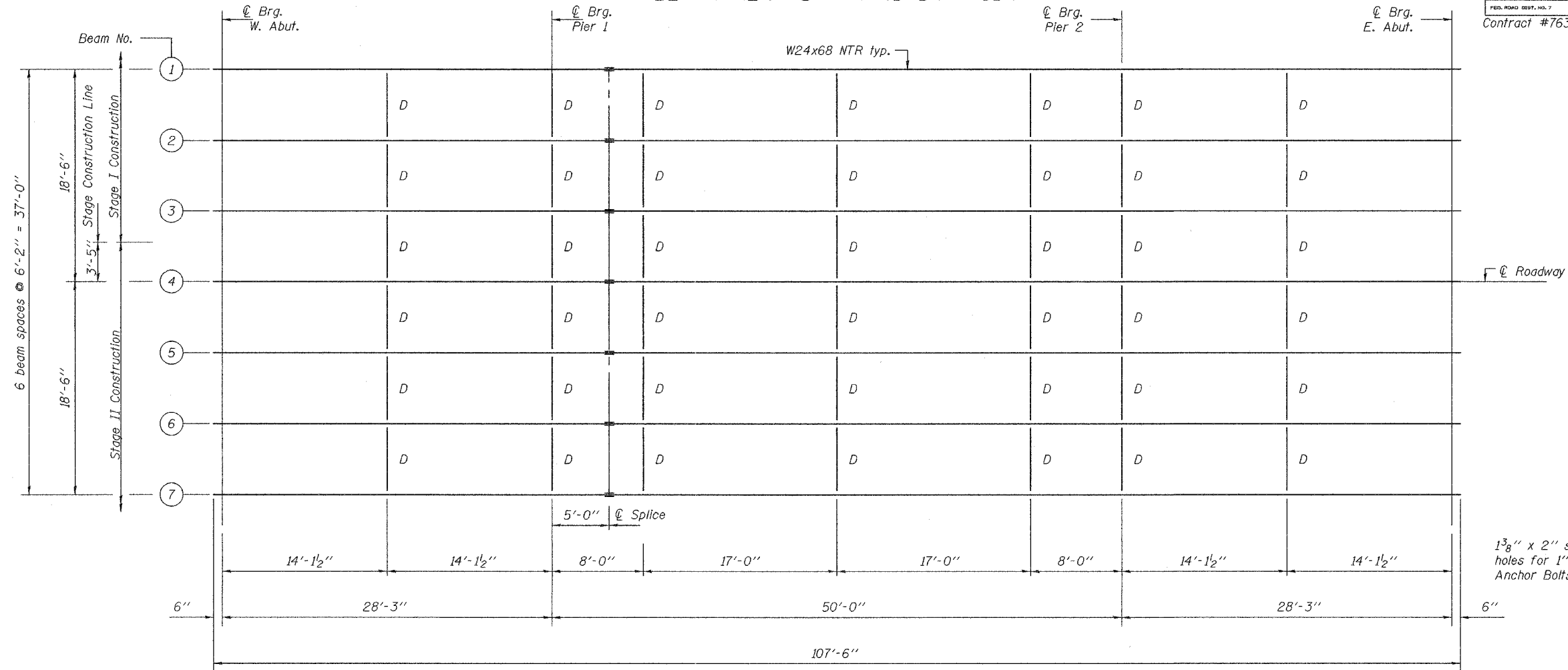
DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

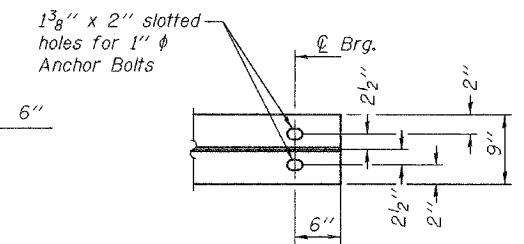
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	77
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
Contract #76394				

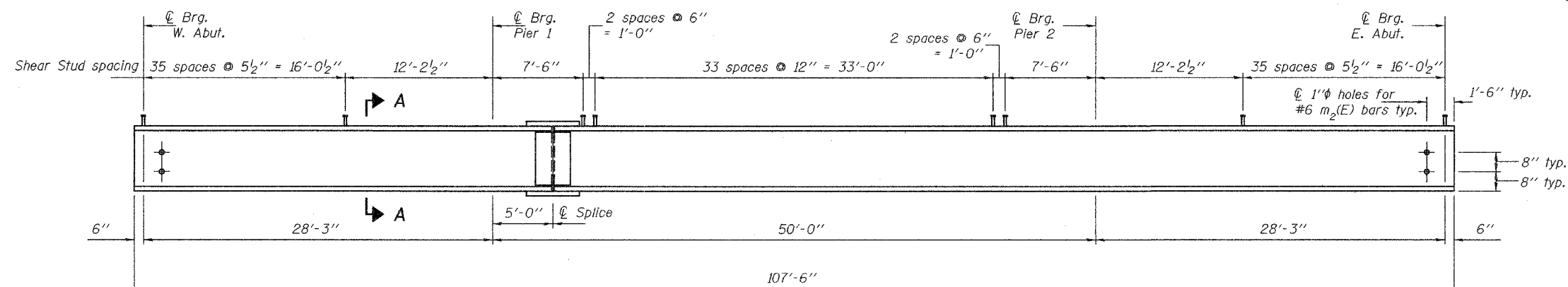


FRAMING PLAN

All beams are W24x68 AASHTO M270 Grade50
(Notch Toughness Requirements)

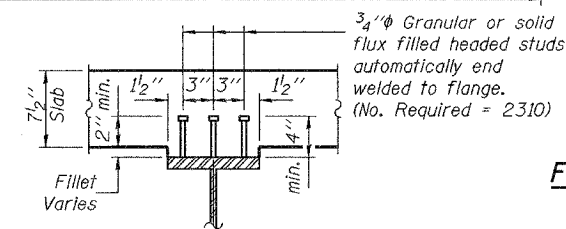


END OF BEAM DETAIL



ELEVATION

All beams W24x68 and splice plates shall be AASHTO M270 Grade 50
and shall meet Notch Toughness Requirements.



SECTION A-A

STRUCTURAL STEEL
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

Note: "NTR" denotes members to which Notch Toughness Requirements are applicable.
For remainder of structural steel details see sheet 11 of 22.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

*TOP OF BEAM ELEVATIONS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 11
F.A.S. 1848	28-4BR	ST. CLAIR	101	78	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

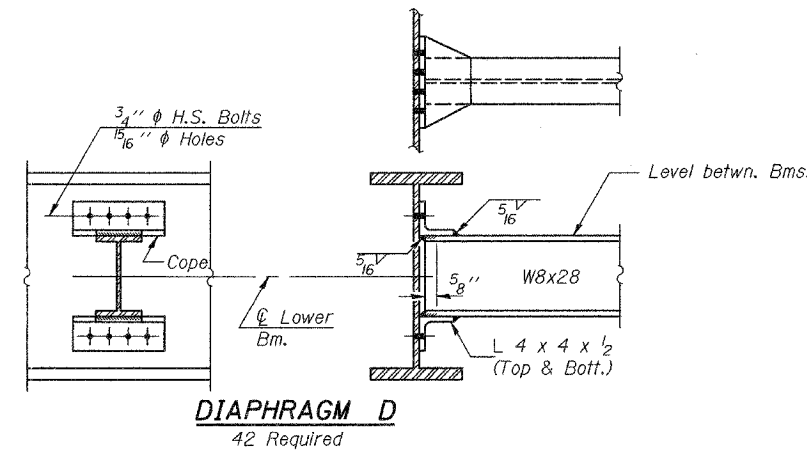
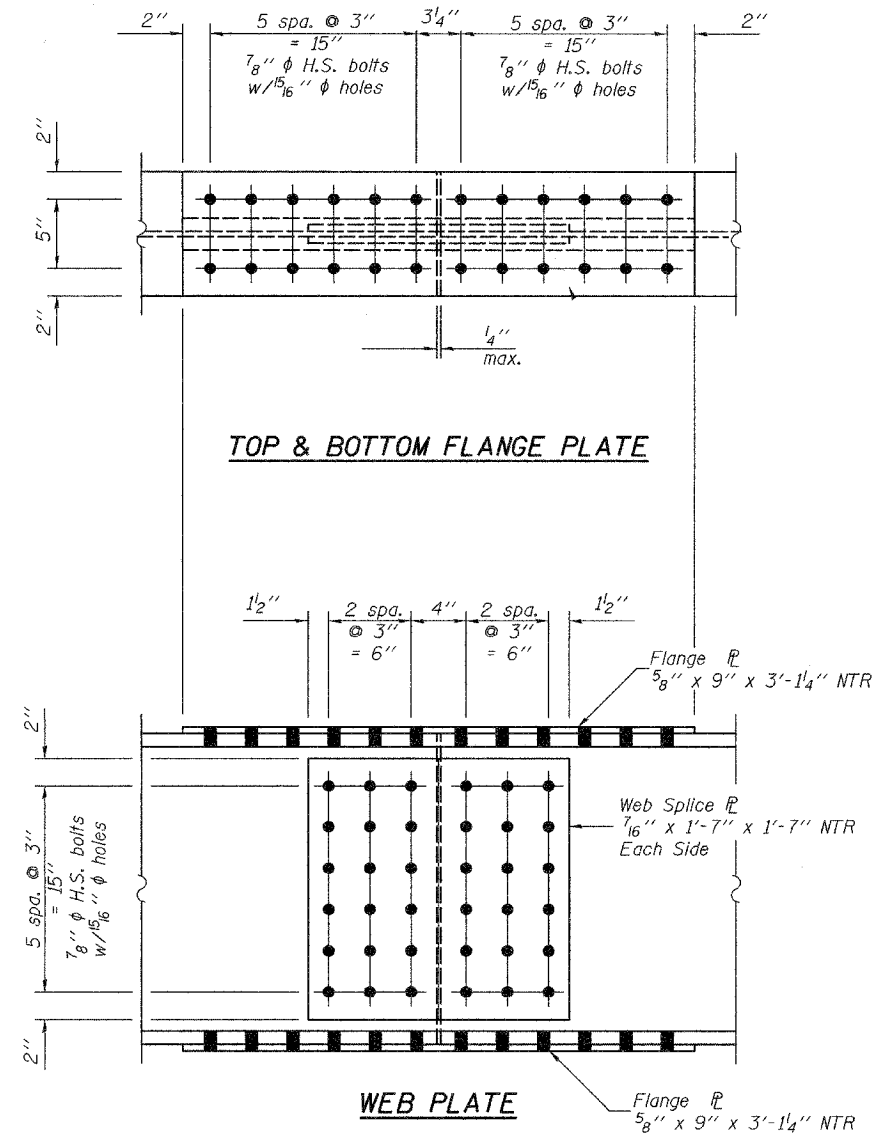
Contract #76394

		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
Is	(in ⁴)	1830	1830	1830
Ic (n)	(in ⁴)	6048	-	6048
Ic (3n)	(in ⁴)	4563	-	4563
Ss	(in ³)	154	154	154
Sc (n)	(in ³)	252	-	252
Sc (3n)	(in ³)	228	-	228
DC1	(k/')	0.665	0.665	0.665
M DC1	(k)	16.2	118.8	89.0
DC2	(k/')	0.13	0.13	0.13
M DC2	(k)	5.8	16.7	23.9
DW	(k/')	0.31	0.31	0.31
M DW	(k)	13.7	39.9	56.9
M $\frac{1}{4}$ +Imp	(k)	242.2	191.3	379.8
Ma (Strength I)	(k)	471.9	564.0	891.1
ϕ Mn	(k)	1,257.1	669.2	1,257.1
fs DC1	(ksi)	1.3	9.3	6.9
fs DC2	(ksi)	0.3	1.3	1.3
fs DW	(ksi)	0.7	3.1	3.0
fs 1.3($\frac{1}{4}$ +I)	(ksi)	15.0	19.4	23.5
fs (Service II)	(ksi)	17.3	33.1	34.7
fs (Total)(Strength I)	(ksi)	23.2	44.0	46.4
Vsr	(k)	17.5	-	16.8

	Abutment	Pier	
R DC1	(k)	5.2	30.2
R DC2+DW	(k)	4.2	19.2
R $\frac{1}{4}$	(k)	35.8	59.1
R Imp	(k)	11.8	19.5
R Total	(k)	57.0	128.0

Location	\bar{C} Brg. W. Abut.	\bar{C} Brg. Pier 1	\bar{C} Splice	\bar{C} Brg. Pier 2	\bar{C} Brg. E. Abut.
Beam 1 & 7	440.02	440.02	439.86	440.02	439.96
Beam 2 & 6	440.15	440.15	439.99	440.15	440.09
Beam 3 & 5	440.24	440.24	440.08	440.24	440.18
Beam 4	440.34	440.34	440.18	440.34	440.28

*For fabrication only



Notes:

Use 1 3/16" x 1 1/2" slotted holes in top and bottom connection angles 4 x 4 x 1/2 at South side of Beam 4 only. Provide 5/16" plate washers for slotted holes. Bolts shall be finger-tightened prior to the deck pour for Stage II Construction and then be fully tightened after completion of the deck pour for Stage II Construction. Two hardened washers shall be required over all oversize holes for diaphragms.

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs due to non-composite loads.

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing fs due to short-term composite loads.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing fs due to long-term composite loads.

DC1 is the dead load acting on the non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on the long-term composite section due to wearing surface.

Ma (Strength I) = 1.25 M(DC1+DC2) + 1.5 M DW + 1.75 M($\frac{1}{4}$ +Imp)

ϕ Mn is the full plastic moment capacity computed in accordance with Appendix D6.1 and 6.10.7.

fs (Service II) is the sum of the stresses due to DC1+DC2+DW+1.3($\frac{1}{4}$ +Imp)

fs (Total) (Strength I) (Non-Compact Section) is the sum of the stresses due to 1.25(DC1+DC2)+1.5DW+1.75($\frac{1}{4}$ +Imp)

Vsr is the maximum shear range in the span 0.75($\frac{1}{4}$ +Imp)

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

DETAIL OF SPLICE

"NTR" denotes members to which Notch Toughness Requirements are applicable. All structural steel for splice plates shall be AASHTO M270 Grade 50.

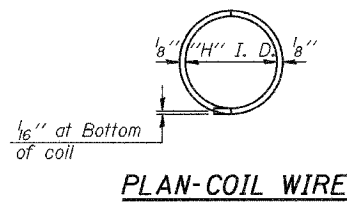
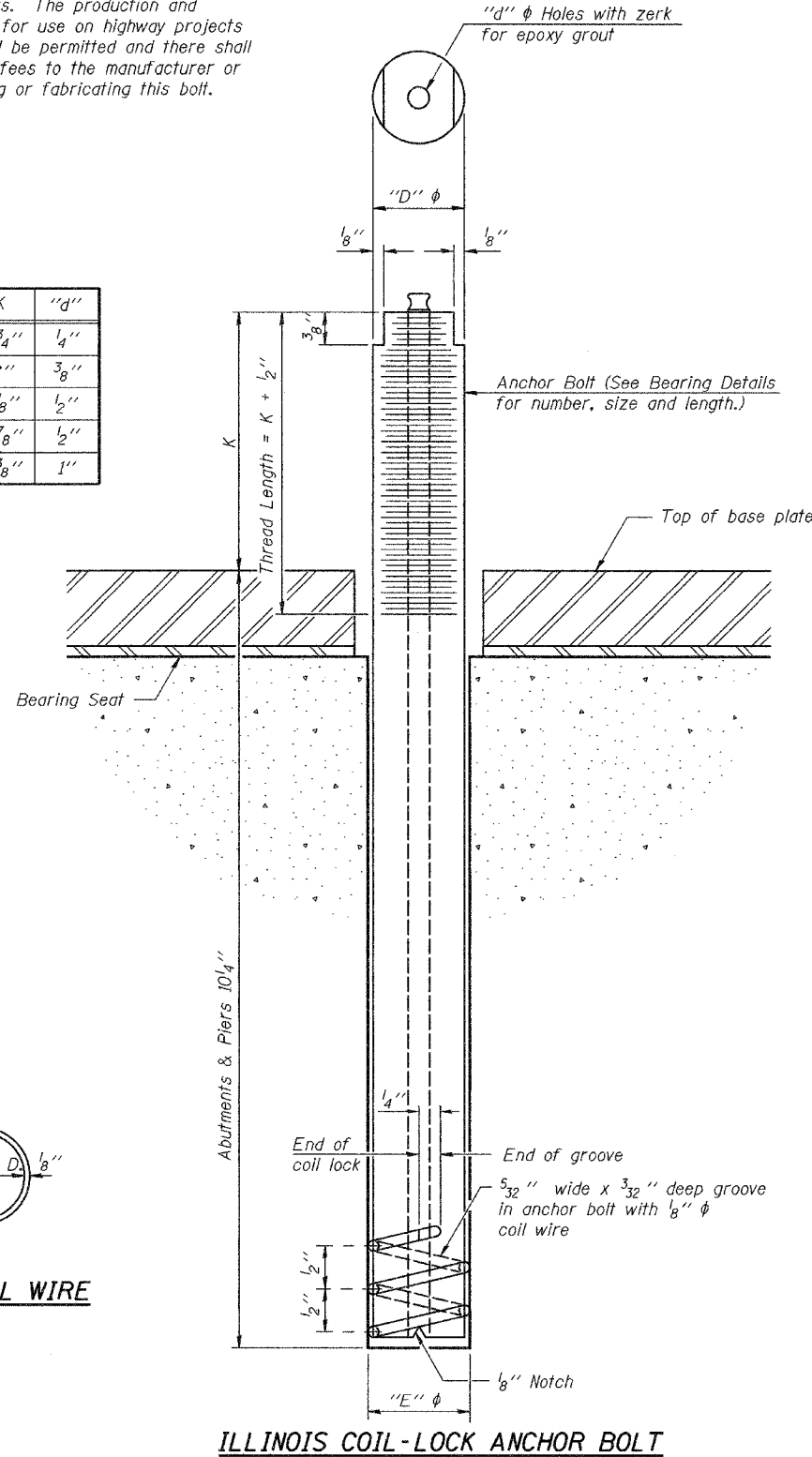
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.	SHEET NO. 13
F.A.S. 1848	28-4BR	ST. CLAIR	101	80	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	3 1/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abuts.	A307
Piers	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Demagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

ABB-1 10-22-04

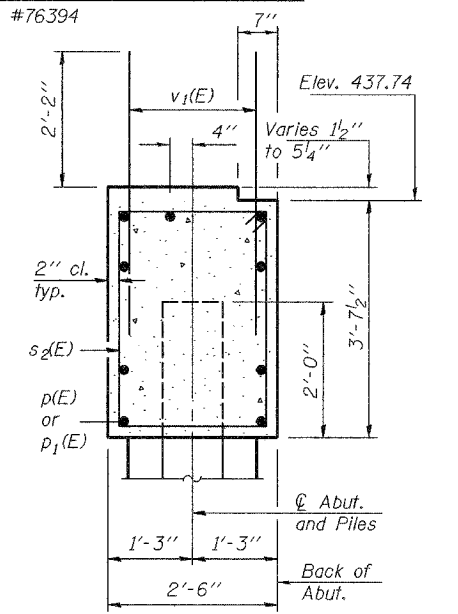
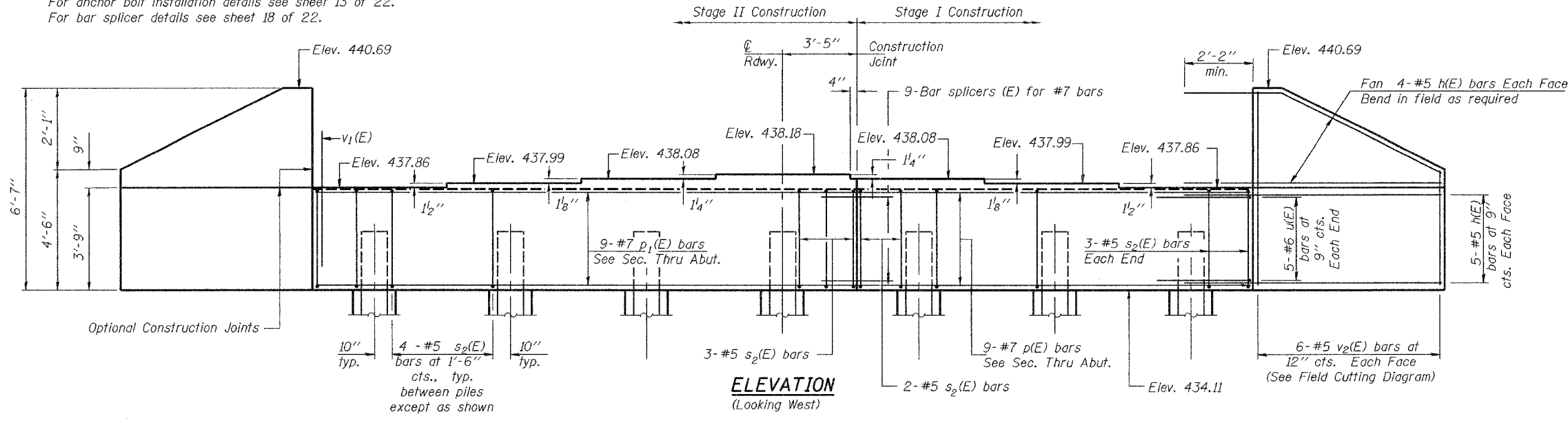
**ANCHOR BOLT DETAILS
FOR BEARINGS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272**

Notes: Four steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement in cap to miss anchor bolts.
 For anchor bolt installation details see sheet 13 of 22.
 For bar splicer details see sheet 18 of 22.

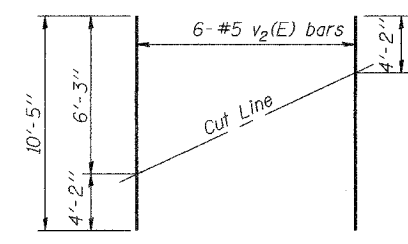
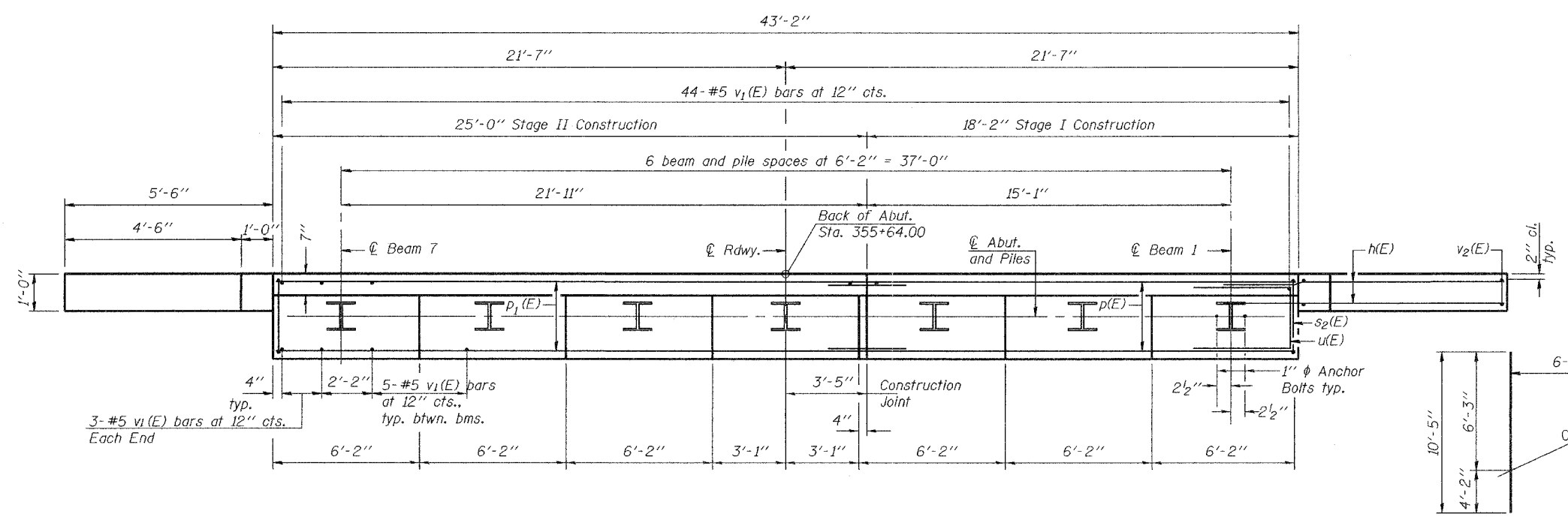
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14
F.A.S. 1848	28-4BR	ST. CLAIR	101	81	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76394



SEC. THRU ABUT.



FIELD CUTTING DIAGRAM

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

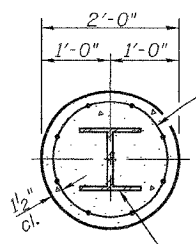
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#5	7'-6"	—
p(E)	9	#7	17'-10"	—
p1(E)	9	#7	24'-8"	—
s2(E)	31	#5	11'-9"	□
u(E)	10	#6	7'-2"	—
v1(E)	80	#5	4'-4"	—
v2(E)	12	#5	10'-5"	—
Concrete Structures		Cu. Yd.	17.9	
Reinforcement Bars, Epoxy Coated		Pound	2,050	
Structure Excavation		Cu. Yd.	92.5	
Furnishing Steel Piles HP12x74		Foot	385	
Driving Piles		Foot	385	
Pile Shoes		Each	7	

PILE DATA

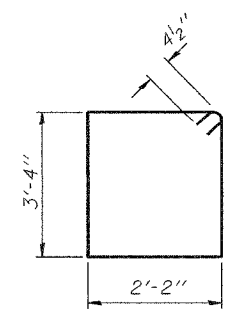
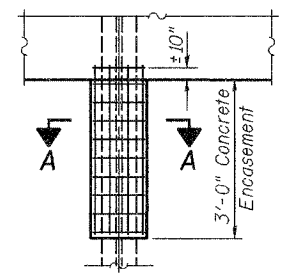
Type: Refusal HP12x74 with Pile Shoes
 Nominal Required Bearing: 588.5 Tons
 Nominal Design Capacity: 392.5 Tons
 Est. Length: 55'
 No. Required: 7

PLAN

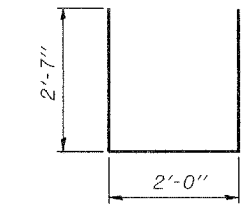


Welded wire fabric 6x6-W4.0xW4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

PILE ENCASEMENT DETAIL



BAR s2(E)



BAR u(E)

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

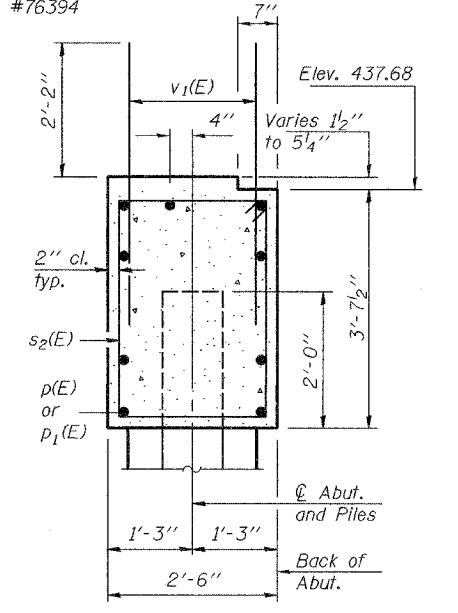
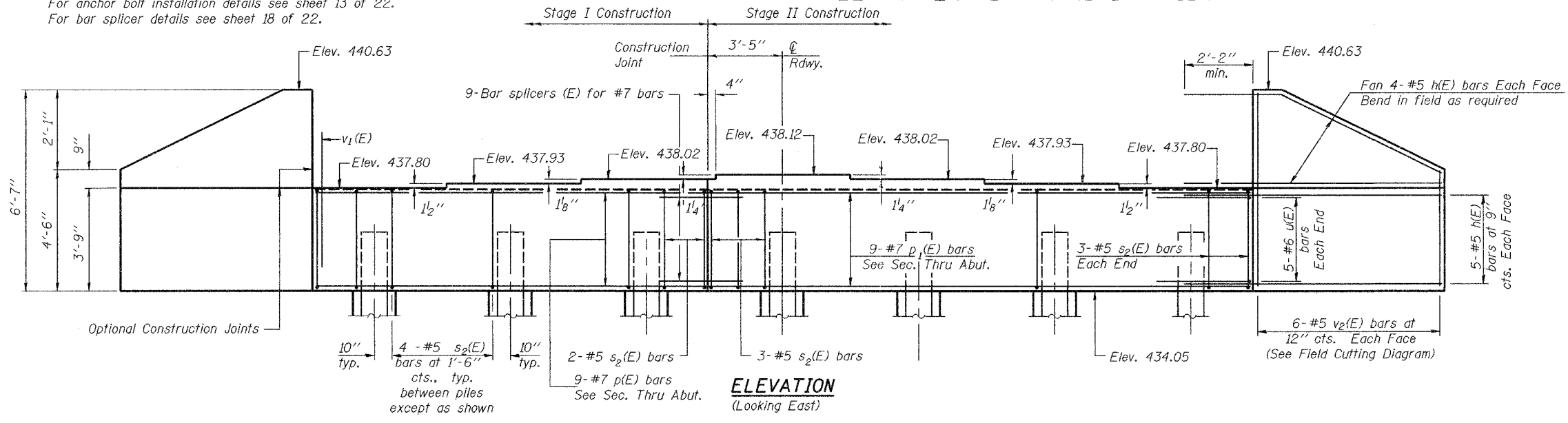
WEST ABUTMENT
 F.A.S. ROUTE 1848 - SECTION 28-4BR
 ST. CLAIR COUNTY
 STATION 356+18.50
 STRUCTURE NO. 082-0272

Notes: Four steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 Space reinforcement in cap to miss anchor bolts.
 For anchor bolt installation details see sheet 13 of 22.
 For bar splicer details see sheet 18 of 22.

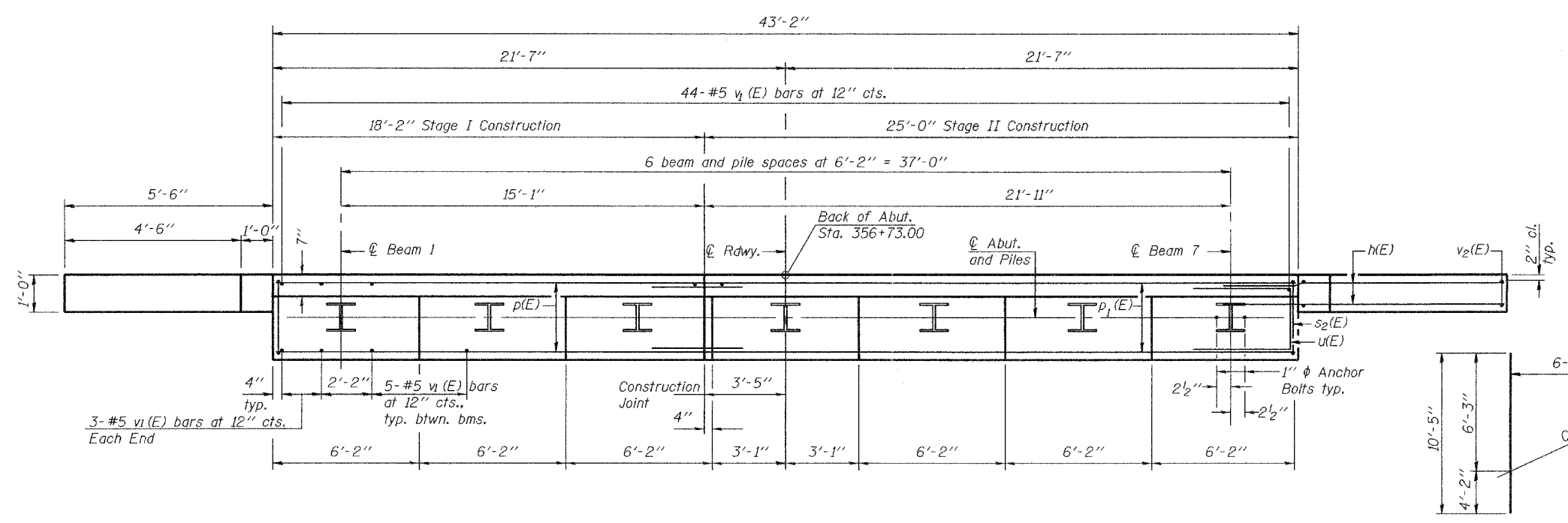
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 15
F.A.S. 1848	28-4BR	ST. CLAIR	101	82	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

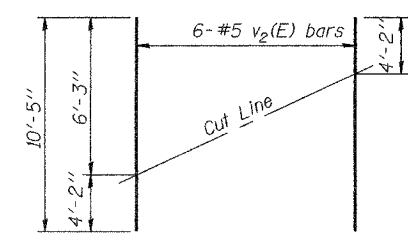
Contract #76394



SEC. THRU ABUT.



PLAN

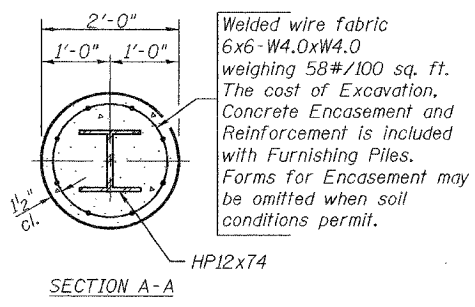


FIELD CUTTING DIAGRAM

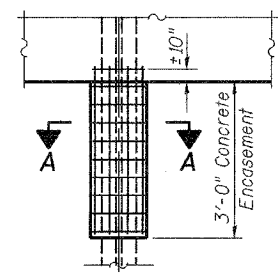
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

PILE DATA

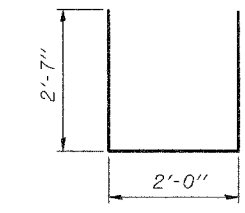
Type: Refusal HP12x74 with Pile Shoes
 Nominal Required Bearing: 588.5 Tons
 Nominal Design Capacity: 392.5 Tons
 Est. Length: 55'
 No. Required: 7



PILE ENCASEMENT DETAIL



BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h(E)	36 #5	7'-6"	
p(E)	9 #7	17'-10"	
p1(E)	9 #7	24'-8"	
s2(E)	31 #5	11'-9"	□
u(E)	10 #6	7'-2"	□
v1(E)	80 #5	4'-4"	
v2(E)	12 #5	10'-5"	
Concrete Structures	Cu. Yd.	17.9	
Reinforcement Bars, Epoxy Coated	Pound	2,050	
Structure Excavation	Cu. Yd.	92.5	
Furnishing Steel Piles HP12x74	Foot	385	
Driving Piles	Foot	385	
Pile Shoes	Each	7	

EAST ABUTMENT
 F.A.S. ROUTE 1848 - SECTION 28-4BR
 ST. CLAIR COUNTY
 STATION 356+18.50
 STRUCTURE NO. 082-0272

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
 EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

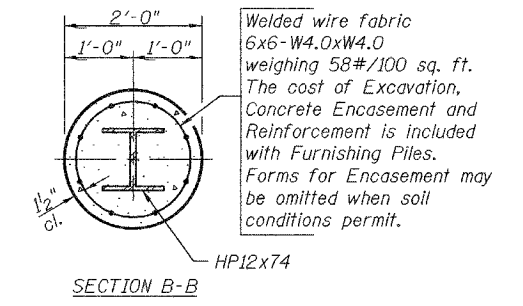
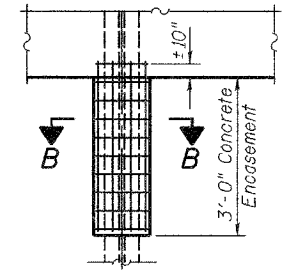
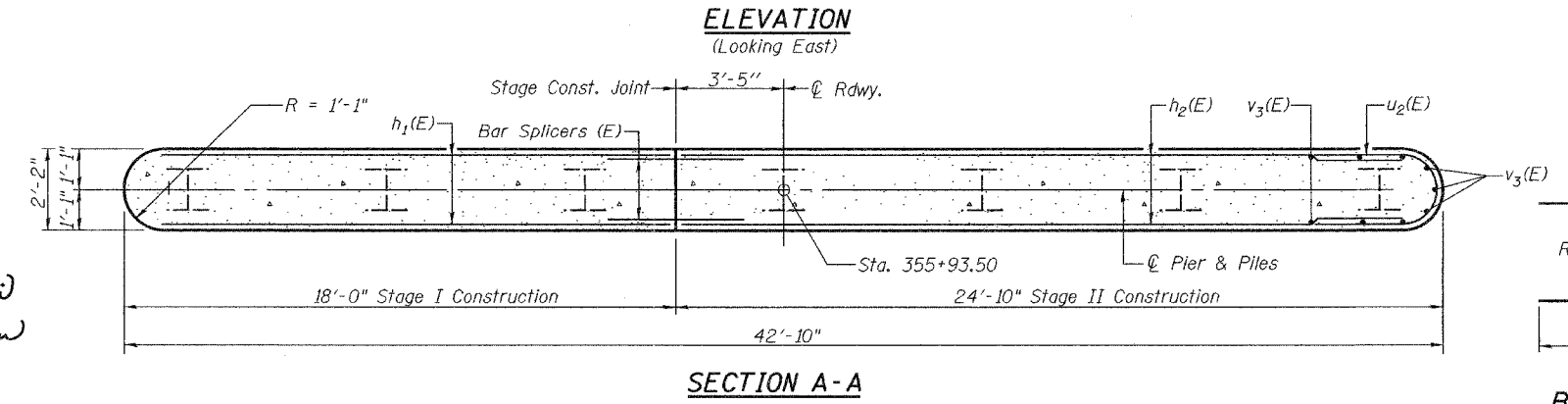
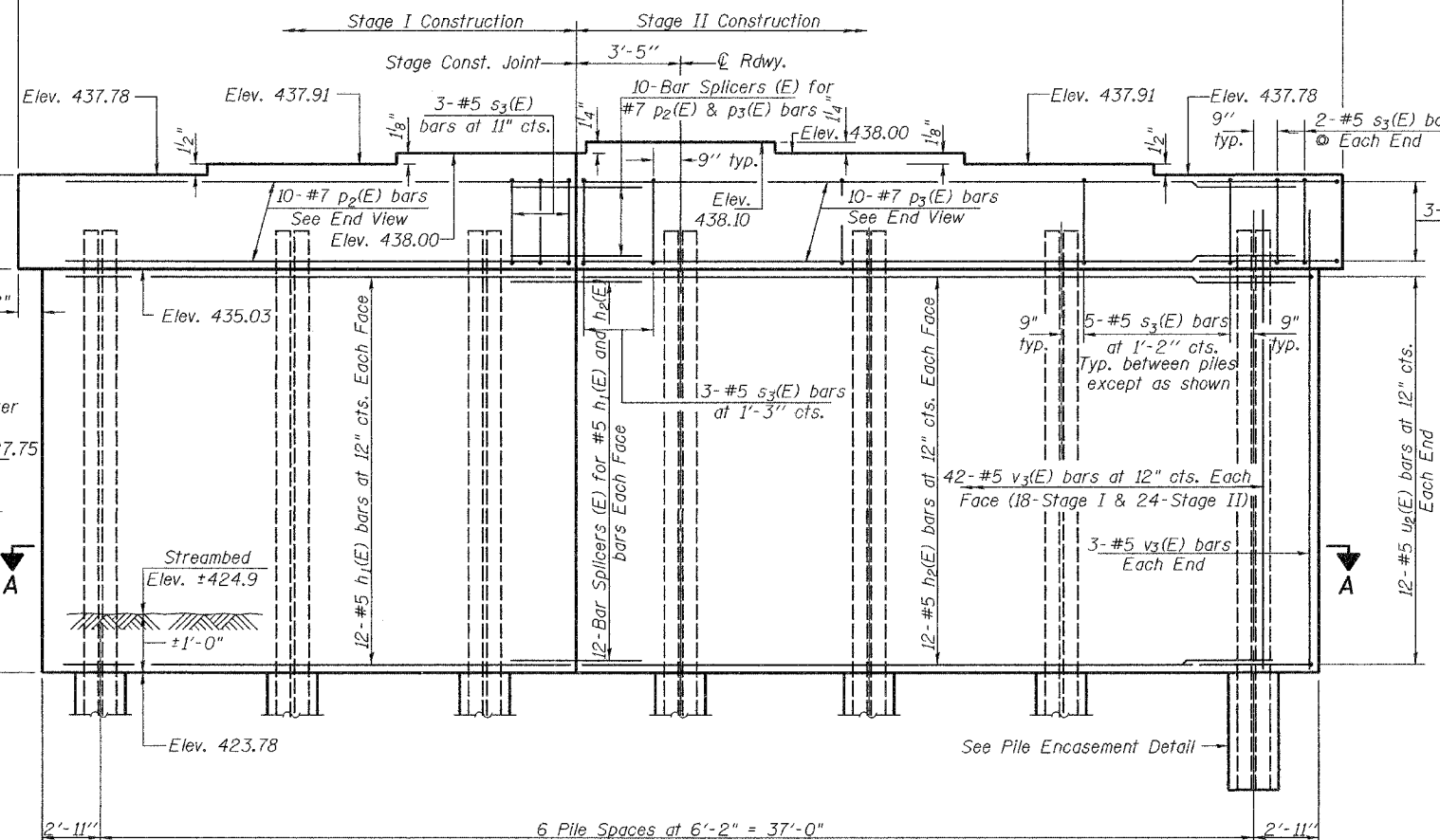
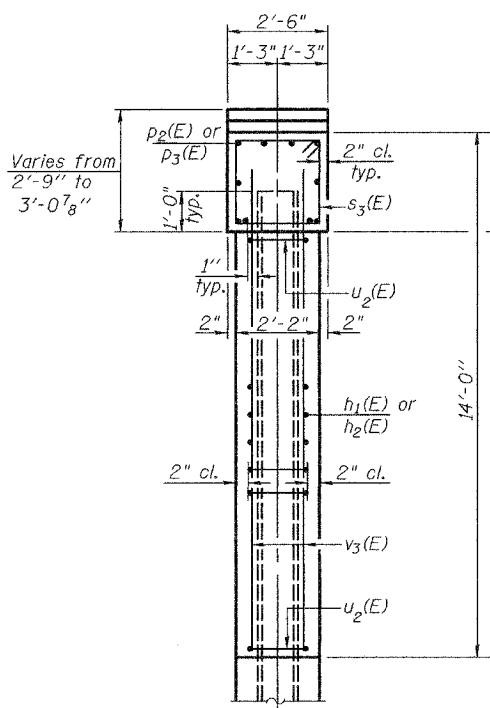
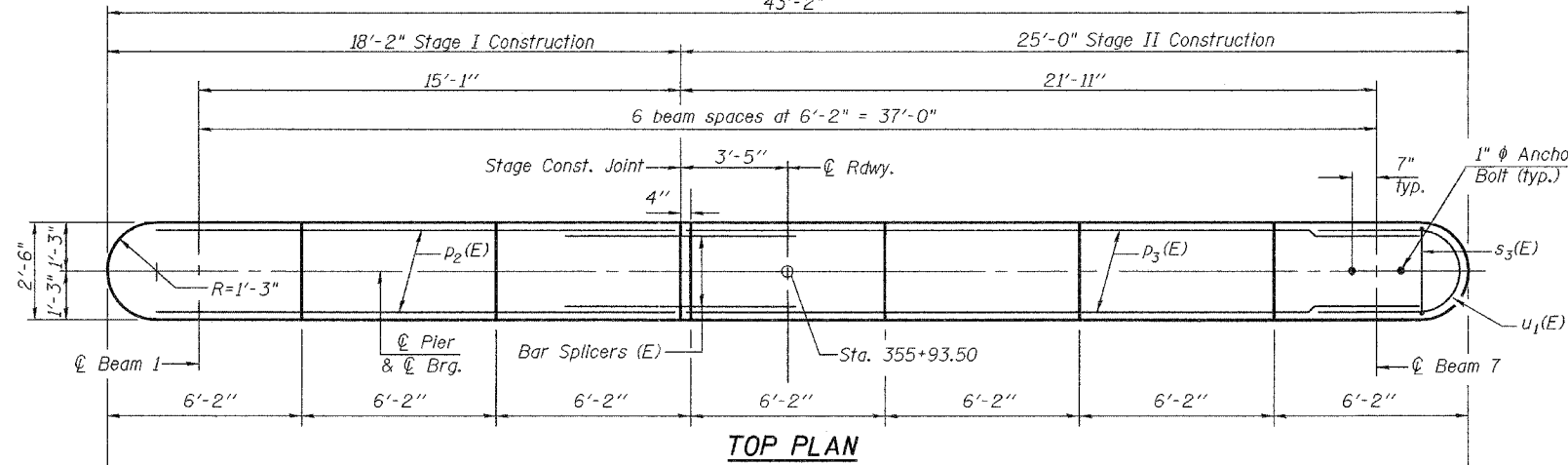
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	101	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 16

22 SHEETS

Contract #76394

Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 13 of 22.
For bar splicer details see sheet 18 of 22.



PILE DATA

Type: Refusal HP12x74 with Pile Shoes
Nominal Required Bearing: 588.5 Tons
Nominal Design Capacity: 392.5 Tons
Est. Length: 55'
No. Required: 7

BILL OF MATERIAL

Bar No.	Size	Length	Shape
$h_1(E)$	24	#5	16'-5"
$h_2(E)$	24	#5	23'-3"
$p_2(E)$	10	#7	16'-7"
$p_3(E)$	10	#7	23'-5"
$s_3(E)$	35	#5	9'-11"
$u_1(E)$	6	#6	8'-4"
$u_2(E)$	24	#5	7'-10"
$v_3(E)$	90	#5	12'-7"
Concrete Structures		Cu. Yd.	49.5
Reinforcement Bars, Epoxy Coated		Pound	3,620
Furnishing Steel Piles HP12x74		Foot	385
Driving Piles		Foot	385
Structure Excavation		Cu. Yd.	39.5
Pile Shoes		Each	7
Underwater Structure Excavation Protection - Location 1		Each	1

PIER 1

F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

DESIGNED M.D. Cima
CHECKED R.J.C.
DRAWN W.D. Collins
CHECKED M.D.C. R.J.C.

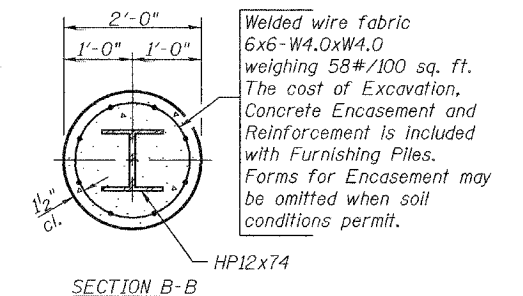
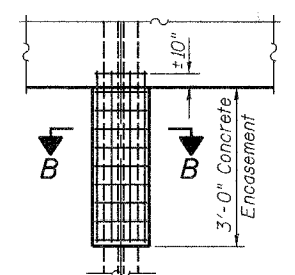
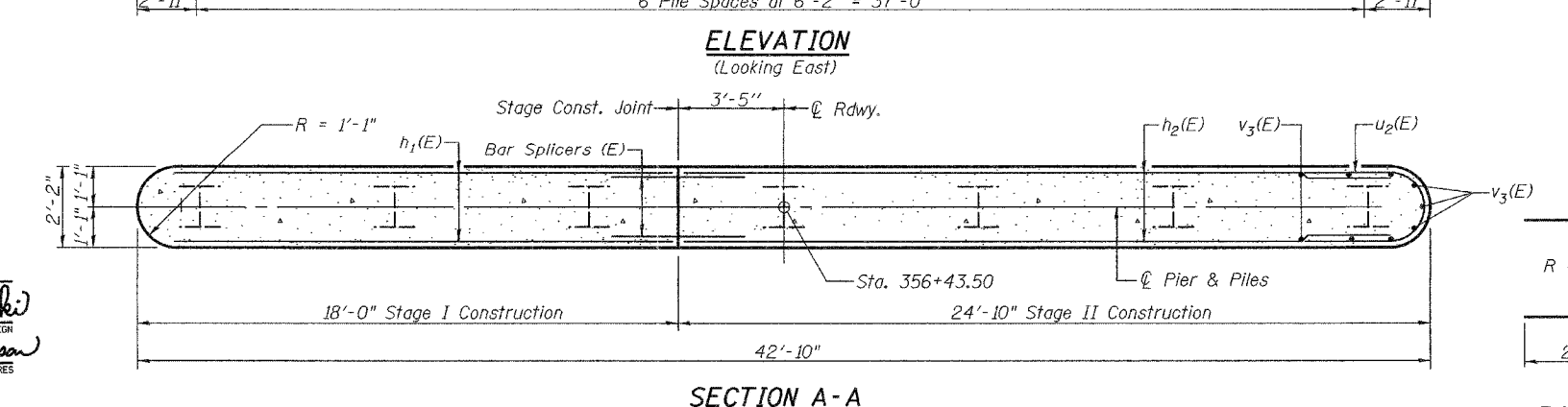
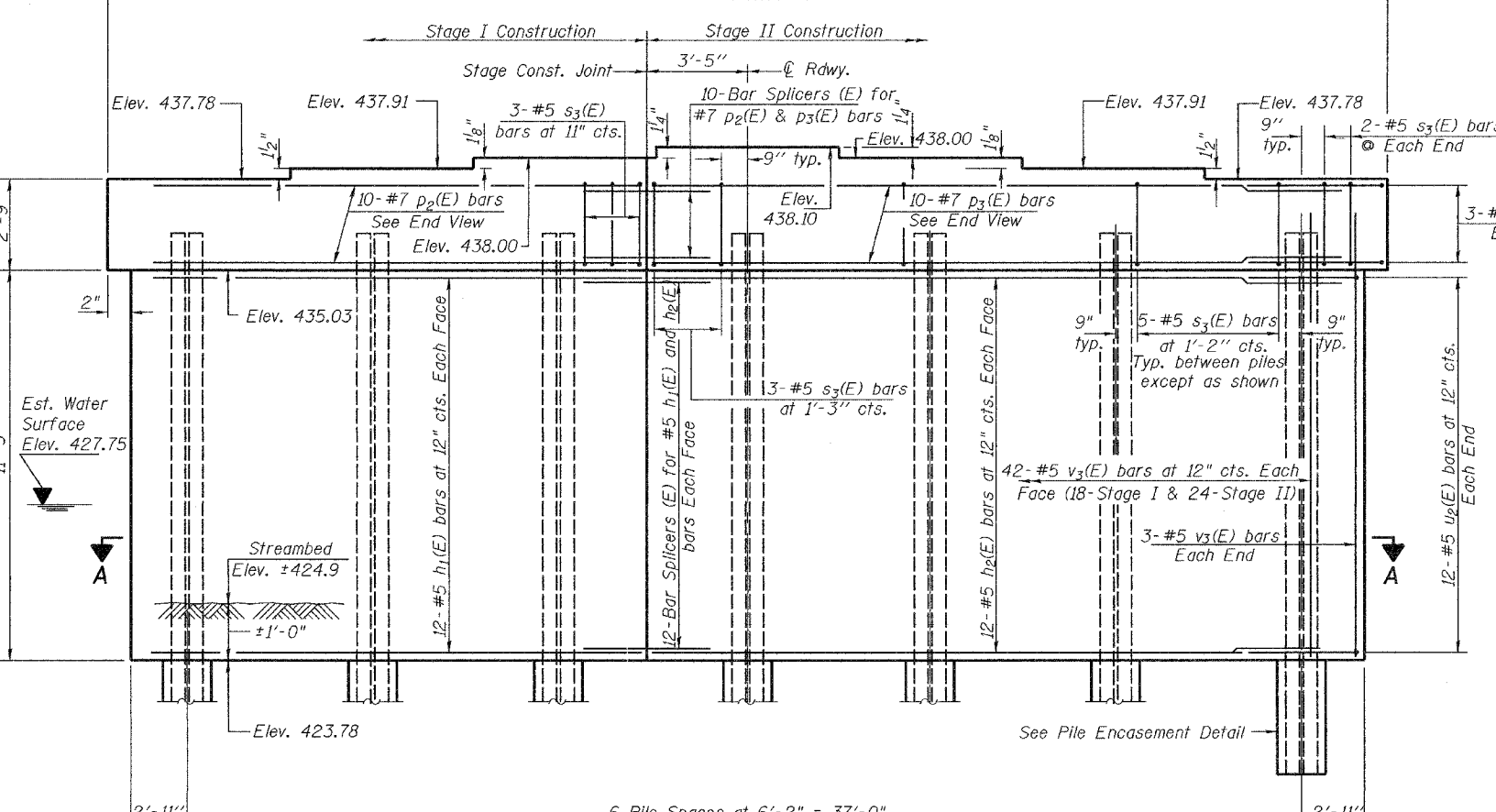
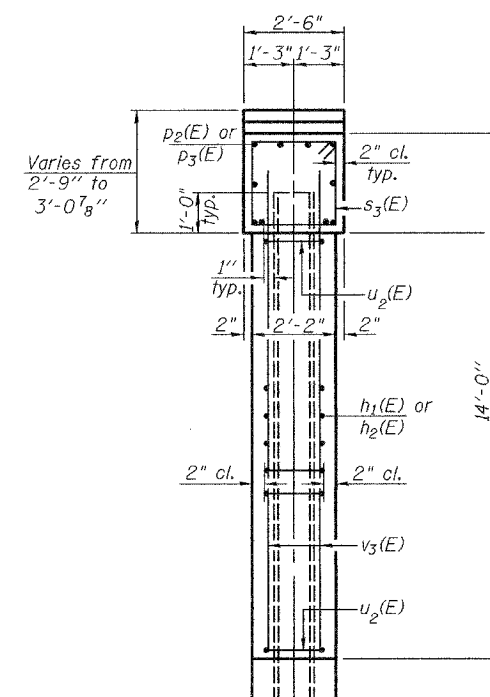
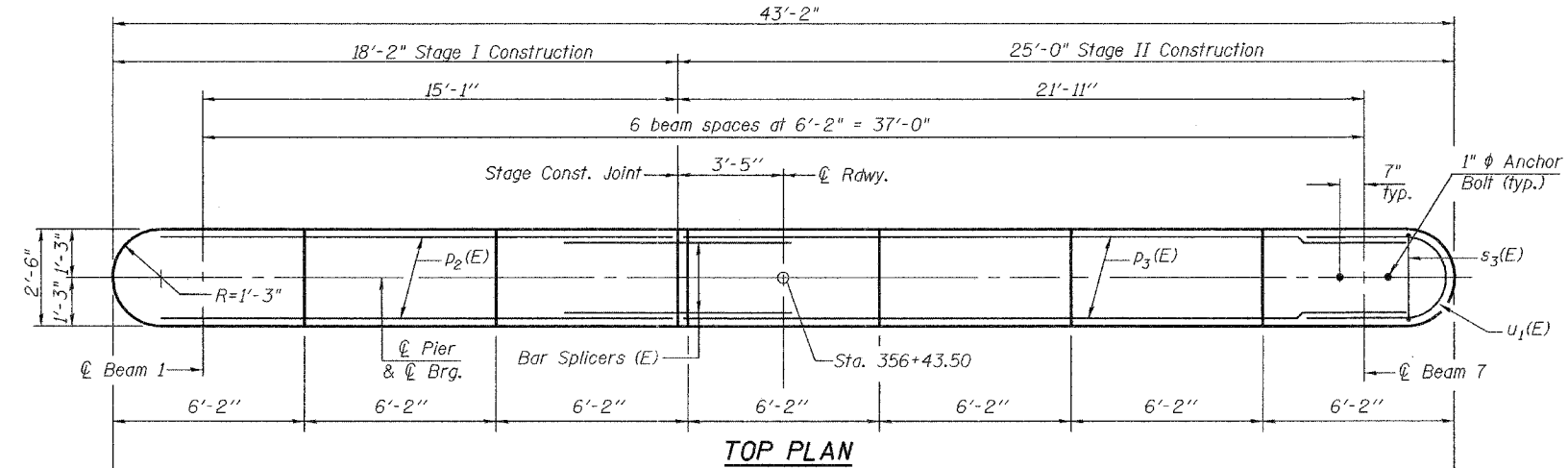
March 17, 2006
EXAMINED Thomas J. Damagalki
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17
F.A.S. 1848	28-4BR	ST. CLAIR	10	84	22 SHEETS
FED. ROAD DIST. NO. 7	ILL. PROJ. NO.	FED. AID PROJECT			

Contract #76394

Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 13 of 22.
For bar splicer details see sheet 18 of 22.

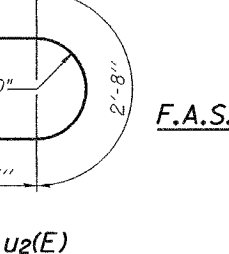
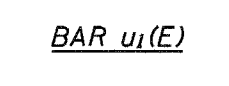
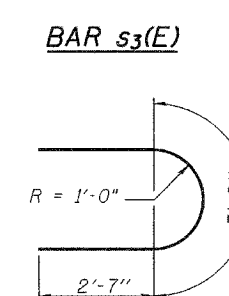


PILE ENCASUREMENT DETAIL

PILE DATA
Type: Refusal HP12x74 with Pile Shoes
Nominal Required Bearing: 588.5 Tons
Nominal Design Capacity: 392.5 Tons
Est. Length: 55'
No. Required: 7

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h1(E)	24 #5	16'-5"	—
h2(E)	24 #5	23'-3"	—
p2(E)	10 #7	16'-7"	—
p3(E)	10 #7	23'-5"	—
s3(E)	35 #5	9'-11"	□
u1(E)	6 #6	8'-4"	U
u2(E)	24 #5	7'-10"	U
v3(E)	90 #5	12'-7"	—
Concrete Structures	Cu. Yd.	49.5	
Reinforcement Bars, Epoxy Coated	Pound	3,620	
Furnishing Steel Piles HP12x74	Foot	385	
Driving Piles	Foot	385	
Structure Excavation	Cu. Yd.	39.5	
Pile Shoes	Each	7	
Underwater Structure Excavation Protection - Location 2	Each	1	



DESIGNED M.D. Cima
CHECKED R.J.C.
DRAWN W.D. Collins
CHECKED M.D.C. R.J.C.

March 17, 2006
EXAMINED Thomas J. Demagala
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER 2
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1848	28-4BR	ST. CLAIR	10	85
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 18
22 SHEETS

Contract #76394

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:

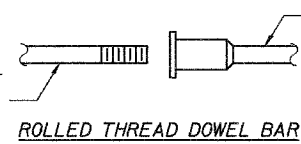
- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
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	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

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



ROLLED THREAD DOWEL BAR



** ONE PIECE

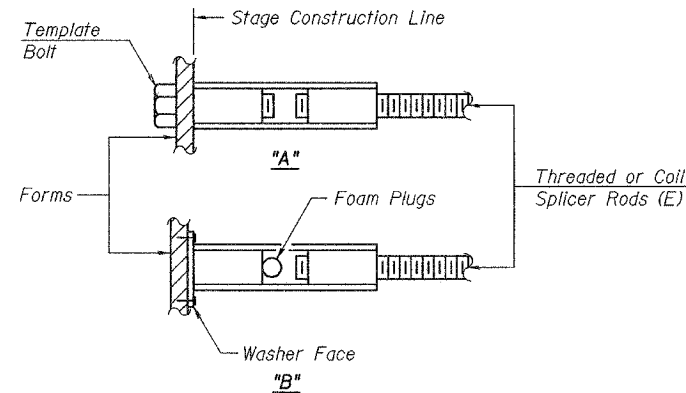
Wire Connector



WELDED SECTIONS

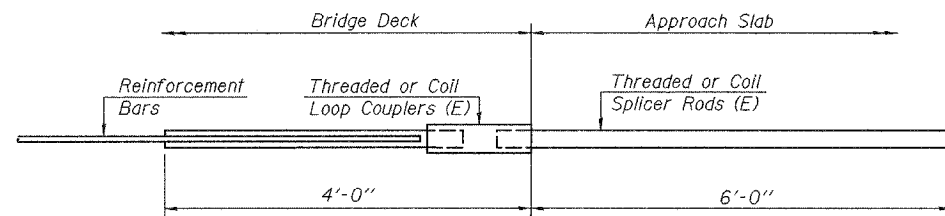
BAR SPLICER ASSEMBLY ALTERNATIVES

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



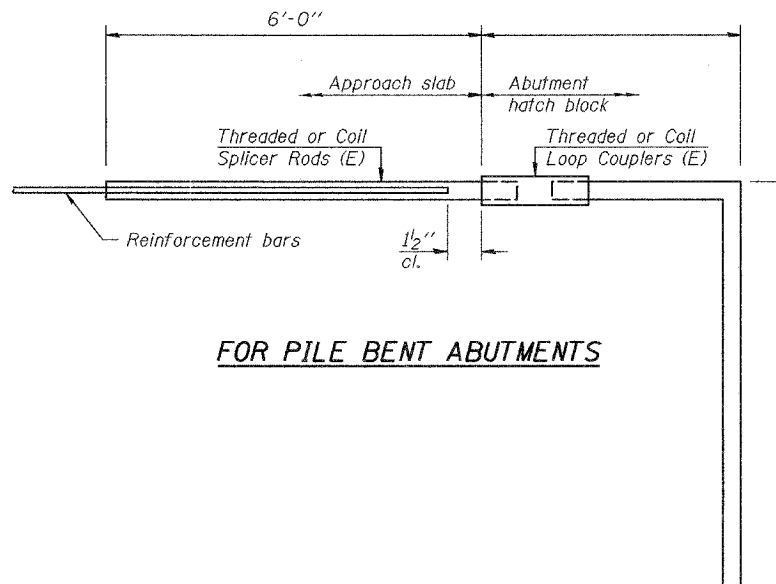
INSTALLATION AND SETTING METHODS

"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.



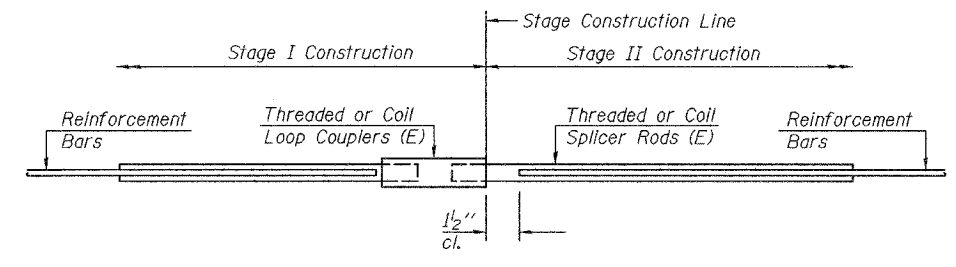
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 80



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	318	Deck Slab
#6	16	Abut. Diaphragms
#7	18	Abut. Caps
#7	20	Pier Caps
#5	48	Pier Stems

BAR SPLICER ASSEMBLY DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

DESIGNED	M.D. Cima
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED *Thomas J. Demagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 19
F.A.S. 1848	28-4BR	ST. CLAIR	101	86	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

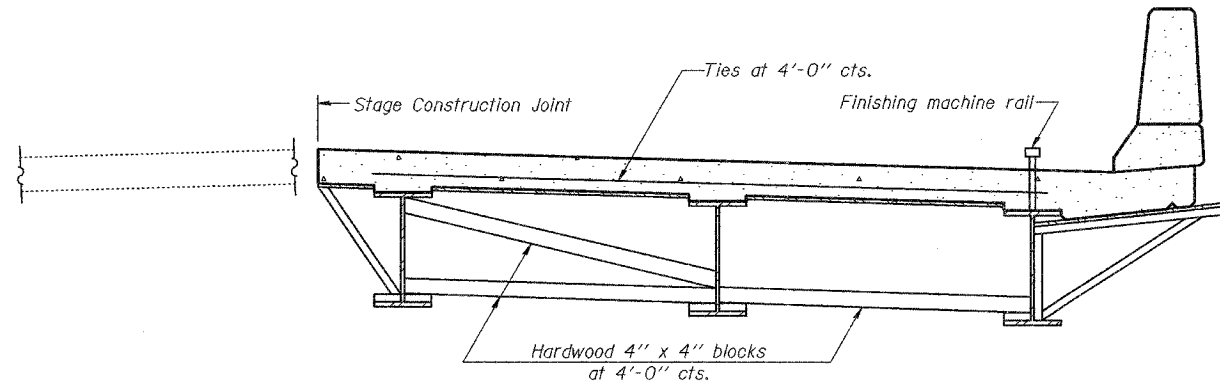
Contract #76394

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

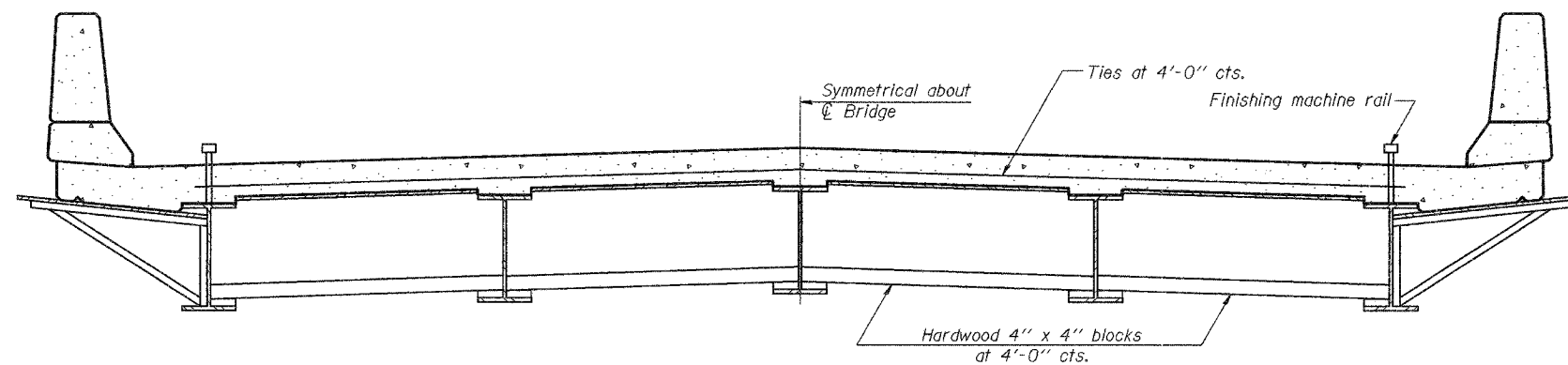
The finishing machine rails shall be placed on the top flange of the exterior beams.

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
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**

DESIGNED	M.D.C.
CHECKED	R.J.C.
DRAWN	W.D. Collins
CHECKED	M.D.C. R.J.C.

March 17, 2006
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

SB-1

10-22-04

CANTILEVER FORMING BRACKETS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOWNSHIP	SHEET NO.	SHEET NO. 20 22 SHEETS
F.A.S. 1848	28-4BR	ST. CLAIR	101	87	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #76394		

Illinois Department of Transportation SOIL BORING LOG Page 1 of 2
Date 2/15/8

ROUTE FAU 9251 DESCRIPTION IL 159177 over Loop Creek, 1 mile west of IL 158 Junction (constructed as SBI 15, Section 28BR) LOGGED BY Clarence Neal

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, RNG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 356+18

BORING NO. 1 Station 356+64 Offset 9.00ft Left Ground Surface Elev. 446.1 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	HAMMER TYPE	BLOWS	BLOWS/FT	WATER ELEV. (ft)	SOIL TYPE
0	Mottled Stony Silty CLAY						
2				0.65			
2				0.98			
5				1.56			
6				1.96			
5				1.76			
8	Blue Silty CLAY			2.38			
7				2.96			
14	Gray Silty CLAY			3.60			

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

Illinois Department of Transportation SOIL BORING LOG Page 2 of 2
Date 2/15/8

ROUTE FAU 9251 DESCRIPTION IL 159177 over Loop Creek, 1 mile west of IL 158 Junction (constructed as SBI 15, Section 28BR) LOGGED BY Clarence Neal

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, RNG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 356+18

BORING NO. 1 Station 356+64 Offset 9.00ft Left Ground Surface Elev. 446.1 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	HAMMER TYPE	BLOWS	BLOWS/FT	WATER ELEV. (ft)	SOIL TYPE
27	Gray Clay TILL			3.26			
23				3.05			
38				4.49			
43				6.39			
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, form 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 2
Date 2/15/8

ROUTE FAU 9251 DESCRIPTION IL 159177 over Loop Creek, 1 mile west of IL 158 Junction (constructed as SBI 15, Section 28BR) LOGGED BY Clarence Neal

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, RNG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 356+18

BORING NO. 2 Station 356+55 Offset 4.00ft Right Ground Surface Elev. 446.1 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	HAMMER TYPE	BLOWS	BLOWS/FT	WATER ELEV. (ft)	SOIL TYPE
2	Brown Silty CLAY			0.82			
3				0.94			
3				1.16			
6				1.08			
5				1.06			
8	Brown Stony CLAY			2.66			
16				3.46			
13				3.72			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG Page 2 of 2
Date 2/15/8

ROUTE FAU 9251 DESCRIPTION IL 159177 over Loop Creek, 1 mile west of IL 158 Junction (constructed as SBI 15, Section 28BR) LOGGED BY Clarence Neal

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, RNG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 356+18

BORING NO. 2 Station 356+55 Offset 4.00ft Right Ground Surface Elev. 446.1 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	HAMMER TYPE	BLOWS	BLOWS/FT	WATER ELEV. (ft)	SOIL TYPE
28	Gray Clay TILL			4.41			
36				4.74			
43				5.14			
52				5.64			
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, form 137 (Rev. 8-99)

BORING DETAILS
F.A.S. ROUTE 1848 - SECTION 28-4BR
ST. CLAIR COUNTY
STATION 356+18.50
STRUCTURE NO. 082-0272

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Page 1 of 1

Illinois Department of Transportation
Division of Highways
District 8 Materials

SOIL BORING LOG

IL 158777 over Loop Creek, 1 mile west of IL 158
Junction (constructed as SBI 15, Section 28BR)

ROUTE FAU 9251 DESCRIPTION Junction (constructed as SBI 15, Section 28BR) LOGGED BY Clarence Neal

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, R1NG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 366+64

BORING NO. 2 Station 366+17 Offset 6.00ft Right Ground Surface Elev. 443.9 ft

DEPTH (ft)	BULGE (ft)	UCS (%)	M	Surface Water Elev.		DEPTH (ft)	BULGE (ft)	UCS (%)	M
				ft	ft				
0				428.9		0			
7	1.74					7	1.74		
5	1.72					5	1.72		
20				418.00		20			
28	2.86					28	2.86		
23	3.68					23	3.68		
26	4.41			411.00		26	4.41		
19	4.57			406.50		19	4.57		
7	1.88					7	1.88		

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, form 137 (Rev. 8-99)

Page 1 of 2

Illinois Department of Transportation
Division of Highways
District 8 Materials

SOIL BORING LOG

IL 158777 over Loop Creek, 1 mile west of IL 158
Junction

ROUTE FAU 9251 DESCRIPTION Junction LOGGED BY Schreeder/Ford

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, R1NG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 366+18

BORING NO. 4 Station 366+68 Offset 37.00ft Right Ground Surface Elev. 435.38 ft

DEPTH (ft)	BULGE (ft)	UCS (%)	M	Surface Water Elev.		DEPTH (ft)	BULGE (ft)	UCS (%)	M
				ft	ft				
4	1.8					4	1.8		
5	S/20					5	S/20		
2				413.38		2			
2				412.38		2			
3	NC					3	NC		
1.4	S/20					1.4	S/20		
2						2			
4	3.6					4	3.6		
7	S/20					7	S/20		
2						2			
7	3.4					7	3.4		
9	S/20					9	S/20		
2						2			
4	1.5					4	1.5		
6	S/20					6	S/20		
1						1			
1	0.7					1	0.7		
2	S/20					2	S/20		
1						1			
1	1.2					1	1.2		
3	S/20					3	S/20		
2						2			
3	1.2					3	1.2		
3	S/20					3	S/20		
2						2			
5	3.8					5	3.8		
9	S/20					9	S/20		
2						2			
1						1			

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, form 137 (Rev. 8-99)

Page 2 of 2

Illinois Department of Transportation
Division of Highways
District 8 Materials

SOIL BORING LOG

IL 158777 over Loop Creek, 1 mile west of IL 158
Junction

ROUTE FAU 9251 DESCRIPTION Junction LOGGED BY Schreeder/Ford

SECTION 28-4BR LOCATION Center, SEC. 28, TWP. 1N, R1NG. 7W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0058 (E) Station 366+18

BORING NO. 4 Station 366+68 Offset 37.00ft Right Ground Surface Elev. 435.38 ft

DEPTH (ft)	BULGE (ft)	UCS (%)	M	Surface Water Elev.		DEPTH (ft)	BULGE (ft)	UCS (%)	M
				ft	ft				
9	4.1					9	4.1		
10	S/20					10	S/20		
2						2			
6	1.8					6	1.8		
8	S/20					8	S/20		
2						2			
30				387.38		30			
30						30			
4	2.3					4	2.3		
6	S/6					6	S/6		
1						1			
1				383.88		1			
3				382.88		3			
10						10			
10	NP					10	NP		

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, form 137 (Rev. 8-99)

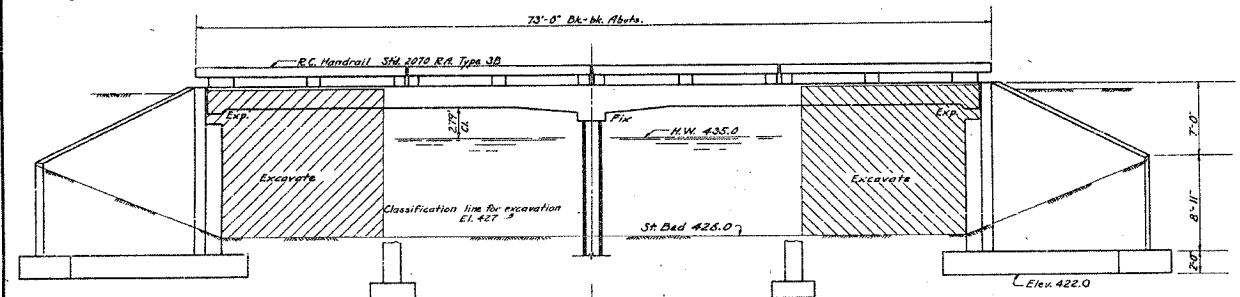
BORING DETAILS
F.A.S. ROUTE 1848 - SECT
ST. CLAIR

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	90
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

1/4" M.P. Spike in 6" Cottonwood, 223' Lt. of Sta. 356+56 El. 437.49.
 Existing Structure: R.C. thru Girder, 1 Span @ 347' R.C. Conc. Abutments.
 Bridge Contractor to remove Superstructure and all portions of
 Substructure that will interfere with new construction.
 No Salvage.

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

DATE	BY	CHKD.	DATE	BY
11/15	28 BY	ST. CLAIR	16	8
11/15	28 BY	ST. CLAIR	16	8



STATION 356+18.5
 BUILT 195 BY
 STATE OF ILLINOIS
 S.B.I. RT. 15 SEC. 28-B
 P.A. PROJ. F-260(6)
 LOADING H20-S16
 NAME PLATE
 See Std. 2113

GENERAL NOTES

Class X concrete shall be used throughout except in handrails.
 Handrail concrete shall be used in handrails.
 All rollers, bearing plates, lead plates and anchor bolts shall
 be fabricated and set in accordance with Article 5116 of the Standard
 Specifications and are included in quantity of structural steel.
 Expansion joints shall be fabricated and erected in accordance
 with Article 5115(a) of the Standard Specifications.
 Except as otherwise provided, all structural steel shall receive
 one shop coat of red lead paint and two field coats of aluminum paint.
 See Articles 551 to 555 inclusive of the Standard Specifications.
 2" x 1/2" x 12" anchor straps of expansion device shall not
 be painted.
 All paint shall be furnished and applied by the contractor.
 The concrete floor slab shall be finished in accordance with
 Article 5119 of the Standard Specifications.
 The handrail concrete in the interior rail posts and railing shall
 be poured in separate operations.
 Back of abutments and wing walls from top of footing to
 ground line shall be waterproofed in accordance with Article 5121
 of the Standard Specifications.
 Contractor shall drive one Concrete Test Pile in Pike Bent
 and one untreated Test Pile at the West Abutment in permanent
 locations as directed by the Engineer before ordering the remainder
 of the piles.

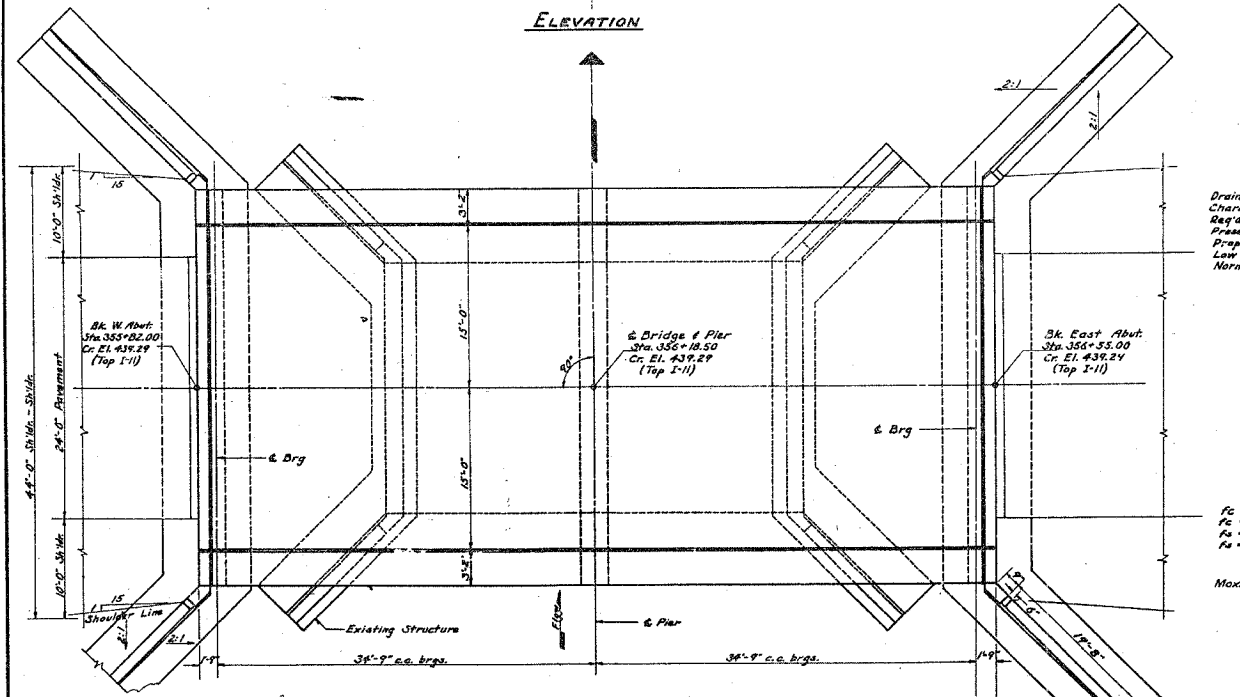
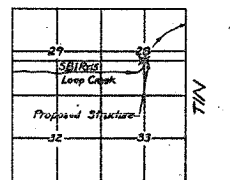
WATERWAY INFORMATION

Drainage Area	5100 Acres
Character	Rolling, Clay, Wooded & Cultivated.
Reg'd Opening (30 yr Flood)	600"
Present Opening (Total Opening)	327"
Proposed Opening	608"
Low Water Elev.	426.0
Normal Water Elev.	427.0

TOTAL BILL OF MATERIALS

ITEM	SUPER	SUB	TOTAL
Class X Concrete	146.5	224.3	370.8
Handrail Concrete	3.6		3.6
Reinf. Bars	36,790	15,960	52,750
Structural Steel Lbs.	4,710		4,710
Precast Conc. Piles		160	160
Name Plates	One		One
Channel Excavation			790
Removal Existing Structure			840
Removal Existing Structure			395
Removal Existing Structure			One
Test Pile (Concrete)	One		One
Untreated Pile (Steel)	One		One
Test Piles (Anchor)	One		One

DESIGN STRESSES
 Fc = 1400 p.s.i. (Super)
 Fc = 1000 p.s.i. (Sub)
 Fc = 2000 p.s.i. (Reinf.)
 Fc = 18000 p.s.i. (Struct.)
 n = 10
 Max. Footing Pressure = 14 Tons per sq. ft.



DESIGNED *Ronald C. Pelt*
 CHECKED *E.P.*
 DRAWN *R. Tilly*
 EXAMINED *J.P. W. Kinn*
 PASSED *[Signature]*
 APPROVED *[Signature]*

PROJ. F-260 (6)
 GENERAL PLAN & ELEVATION
 S.B.I. RT. 15 SEC. 28-BR.
 BRIDGE OVER LOOP CREEK
 ST. CLAIR COUNTY
 STA. 356+18.5

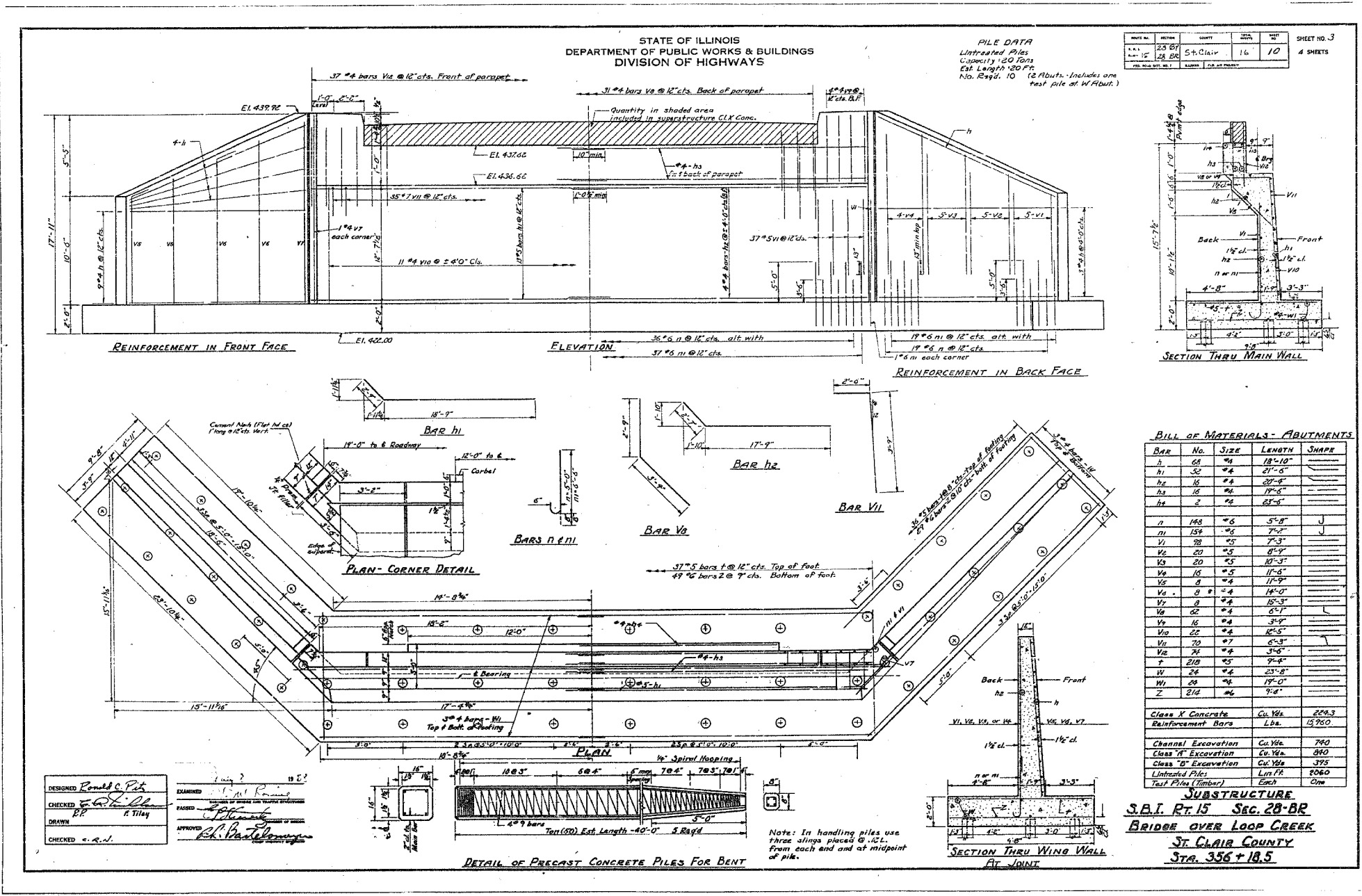
FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING STRUCTURE PLANS
 FAS ROUTE 1848
 SECTION 28-4BR
 ST. CLAIR COUNTY
 SN 082-0058(E) 0272(P)

PLOT DATE = 2/8/2006
 FILE NAME = c:\projects\12100\plan\pln054.dgn
 PLOT SCALE = 5/8"=1'-0"
 REFERENCE = #REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	92
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DESIGNED *Ronald C. Pelt*
CHECKED *E. G. L. De*
DRAWN *R. Tiley*
CHECKED *e. r. j.*

EXAMINED *...*
PASSED *...*
APPROVED *...*

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

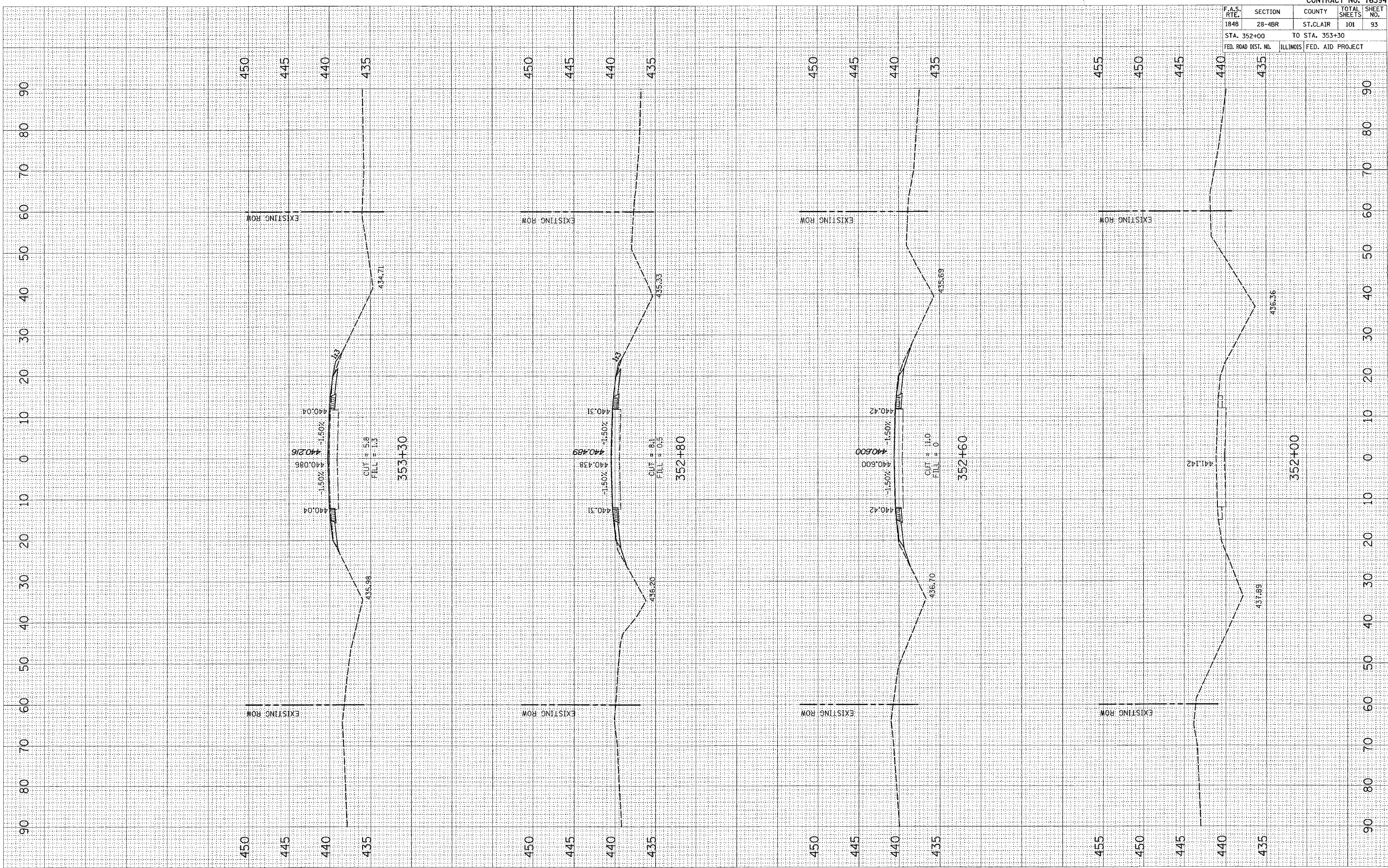
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
FAS ROUTE 1848
SECTION 28-4BR
ST. CLAIR COUNTY
SN 082-0058(E) 0272(P)

PLOT DATE = 2/16/2005
 FILE NAME = c:\pwork\peta\ved2400\plan\plan051a.dgn
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 REFERENCE = #REF#

PLOT DATE = 2/21/2006
 PLOT SCALE = 10.0000' / IN.
 USER NAME = herbaugh-d

ORIGINAL SURVEYED
 SURVEY PLOTTED
 NO. DATE
 BY DATE

FINAL SURVEY
 SURVEY PLOTTED
 NO. DATE
 BY DATE



SN 082-0272 MAINLINE

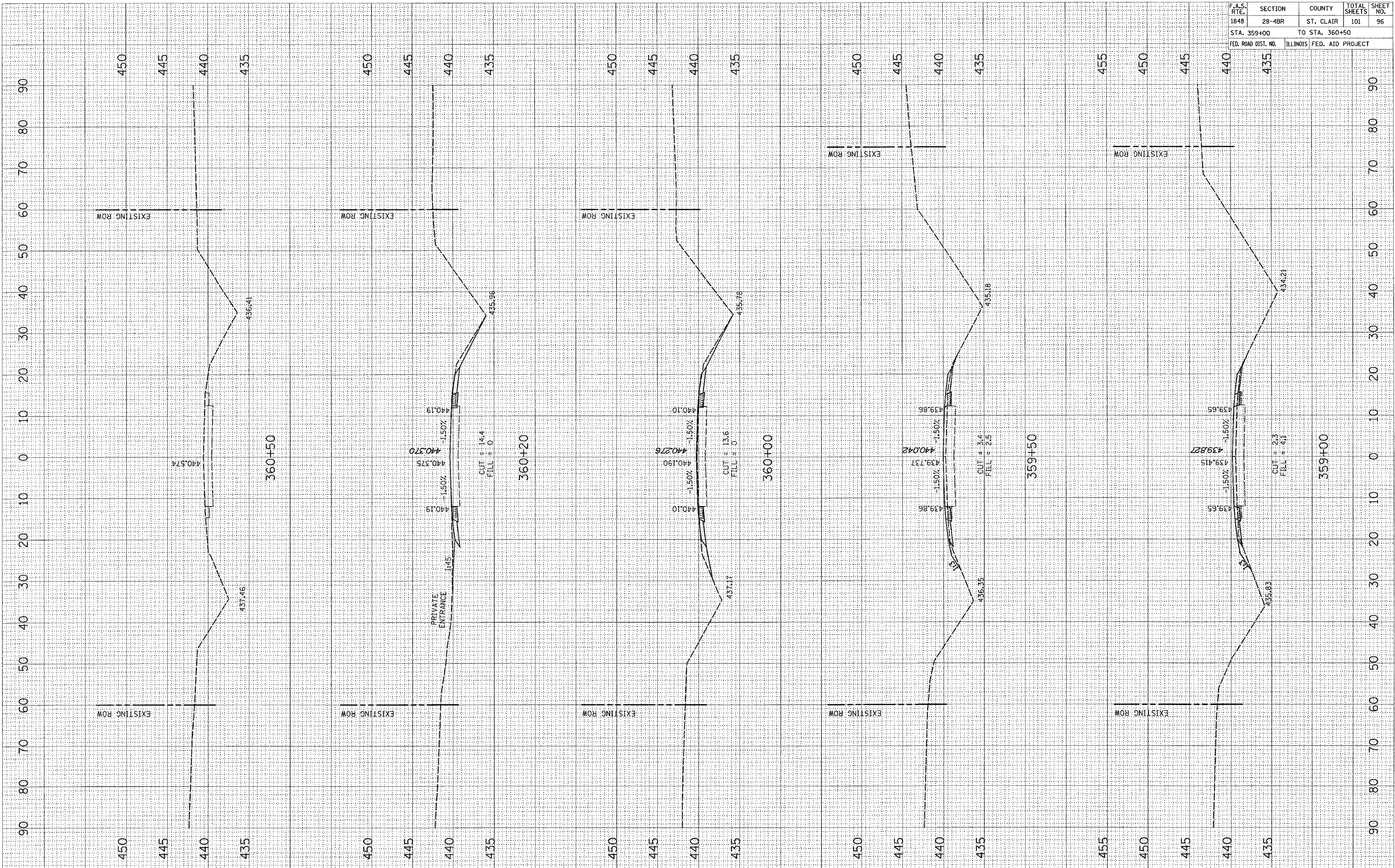
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	93
STA. 352+00		TO STA. 353+30		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEYED SURVEY PLOTTED NOTE BOOK NO. BY DATE

ORIGINAL SURVEYED SURVEY PLOTTED NOTE BOOK NO. BY DATE

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 USER NAME = hurbaugh-d

CONTRACT NO. 76394				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 359+00		TO STA. 360+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

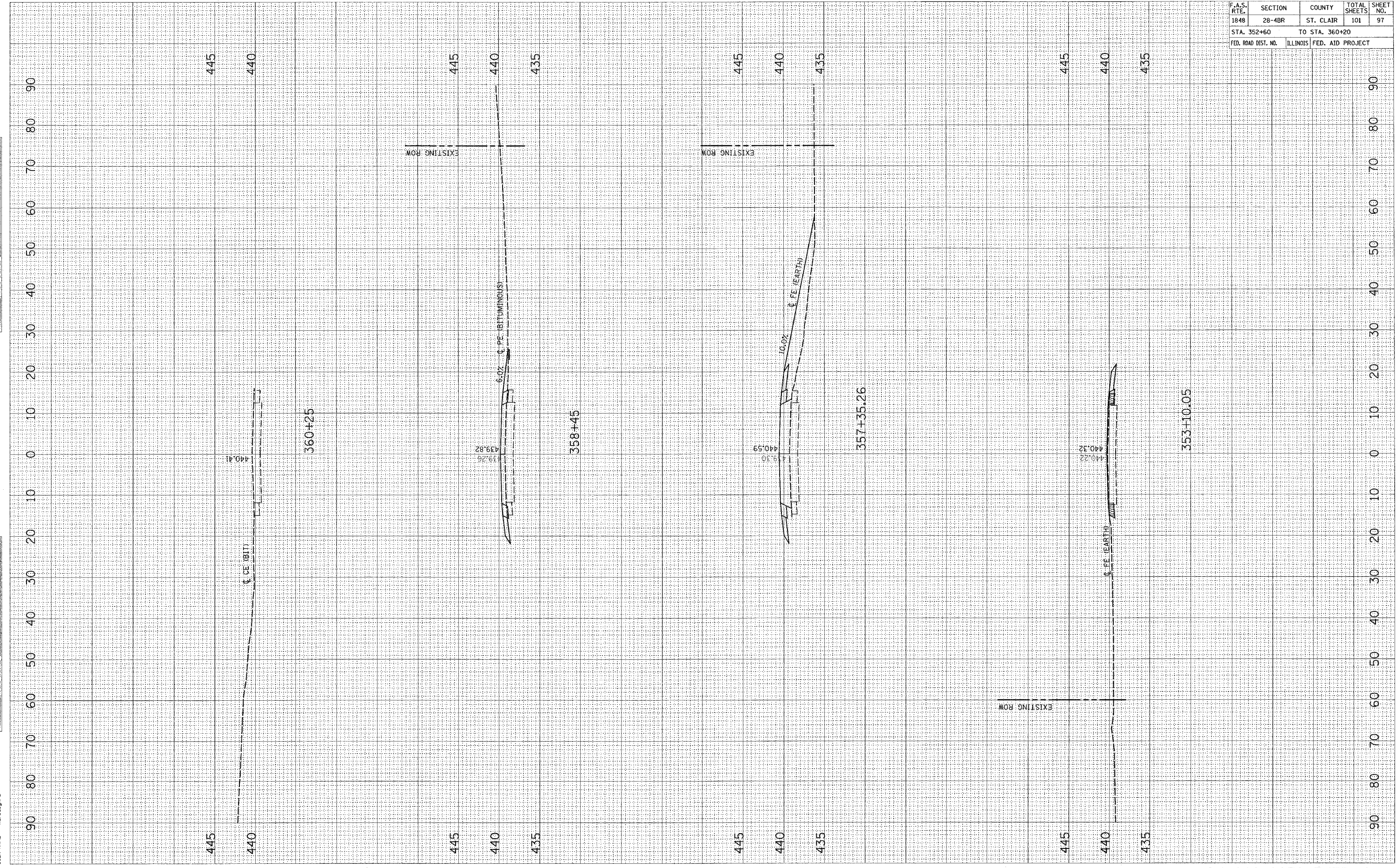


FINAL SURVEY SURVEYED BY DATE
 NOTE BOOK PLOTTED BY
 NO. AREAS CHECKED

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

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 USER NAME = harbaugh-d

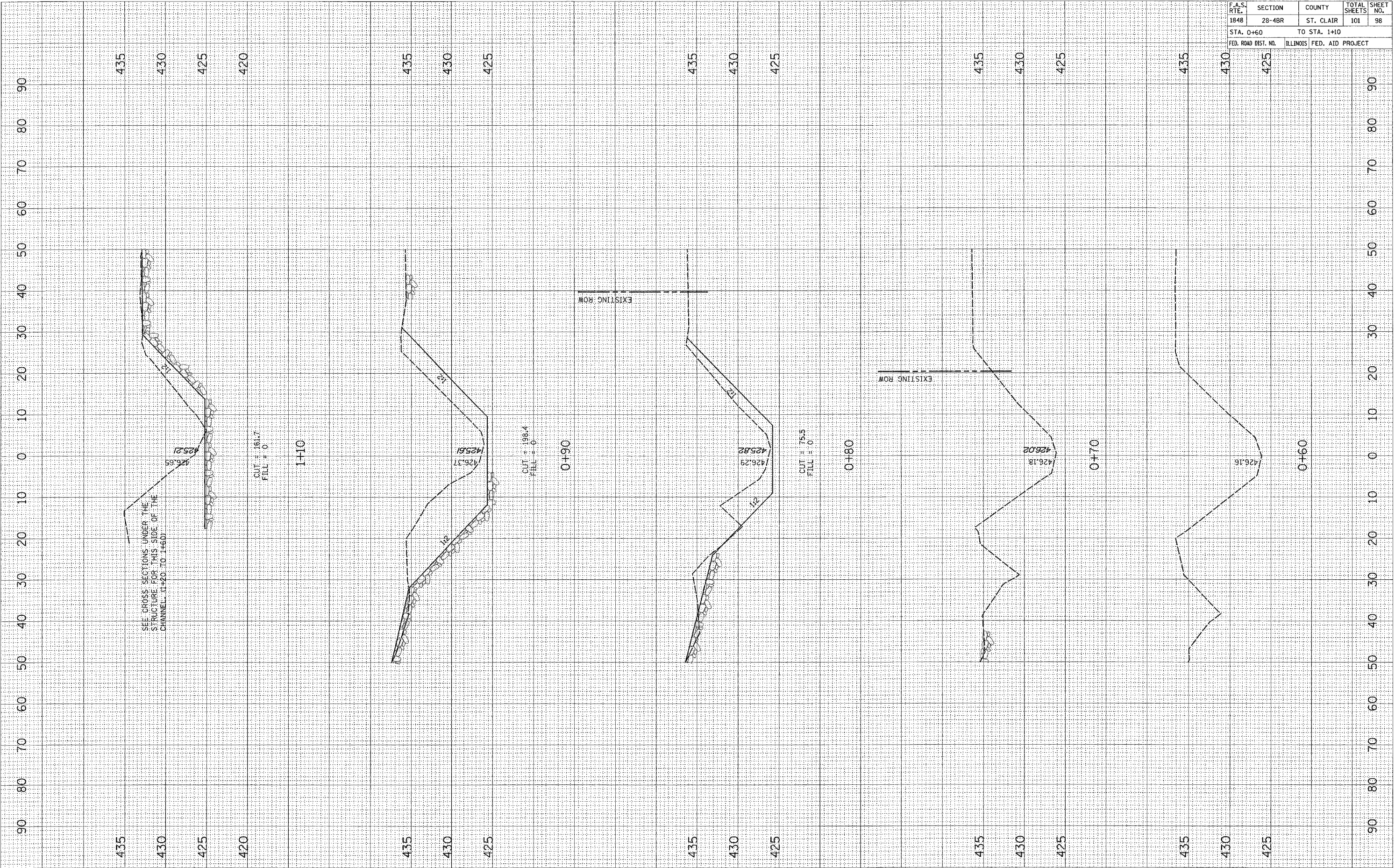
CONTRACT NO. 76394			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
1848	28-4BR	ST. CLAIR	101
STA. 352+60		TO STA. 360+20	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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 USER NAME = harbaughd

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 SURVEYED _____ BY _____ DATE _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____

FINAL SURVEYED BY DATE
 SURVEYED _____ BY _____ DATE _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____



SEE CROSS SECTIONS UNDER THE
 STRUCTURE FOR THIS SIDE OF THE
 CHANNEL. (1+20 TO 1+60)

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 FILL = 0

CUT = 198.4
 FILL = 0

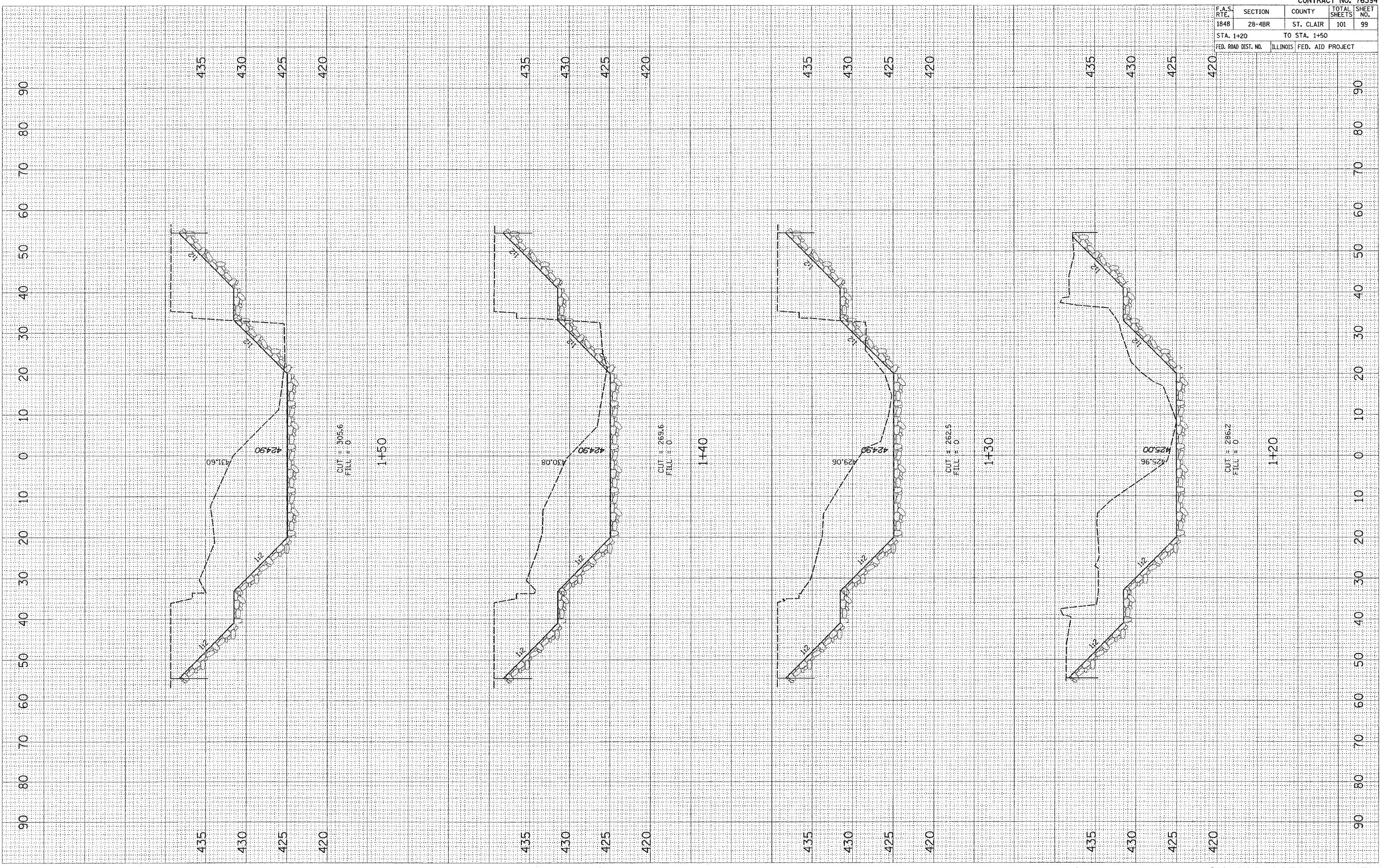
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1848	28-4BR	ST. CLAIR	101	98
STA. 0+60		TO STA. 1+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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 USER NAME = harbaughd

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 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____
 NO. _____

FINAL SURVEY
 SURVEYED _____ BY _____ DATE _____
 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____
 NO. _____

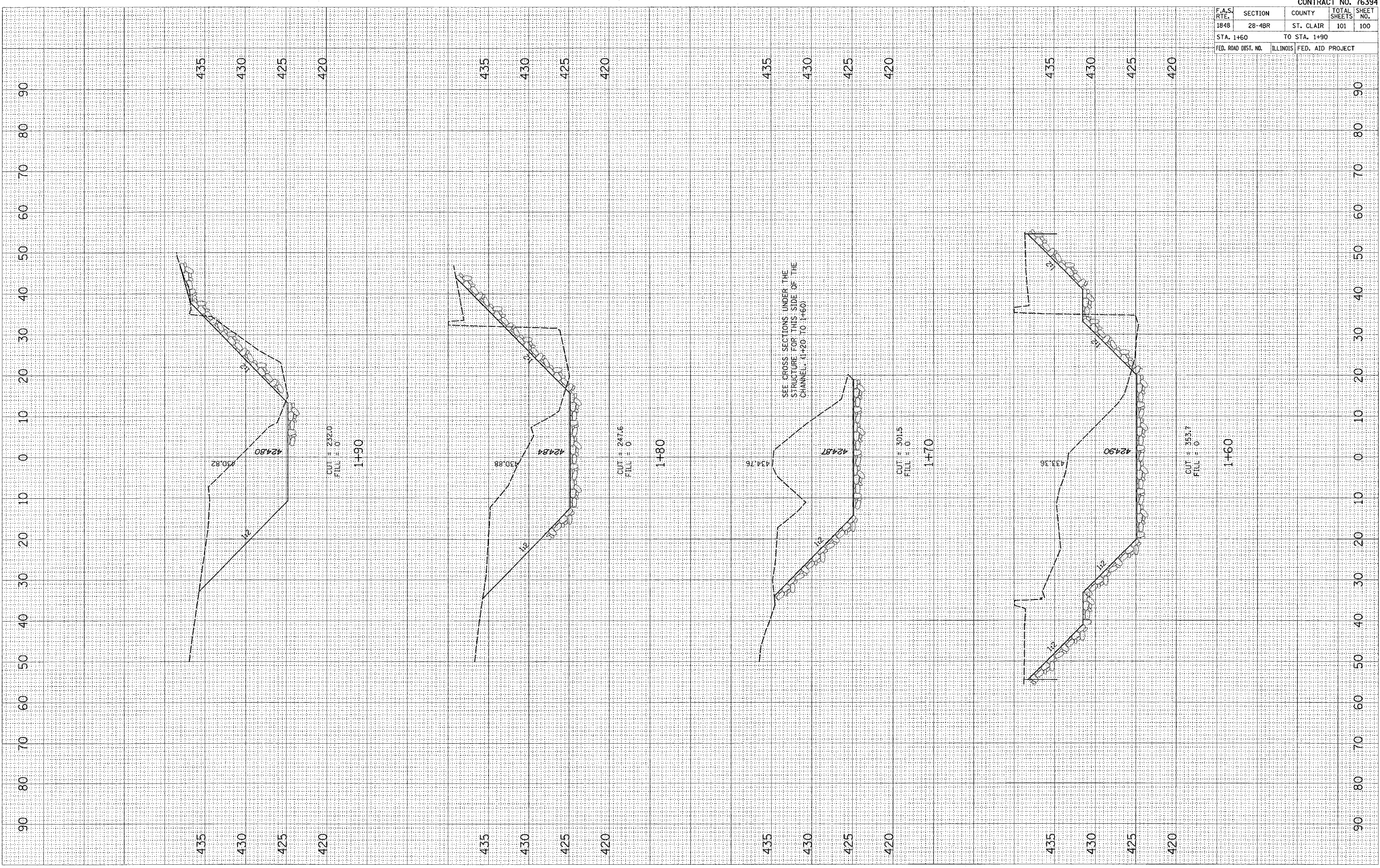


CONTRACT NO. 76394				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	99
STA. 1+20		TO STA. 1+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 USER NAME = harbaugh-d

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 PLOTTED _____
 TRIMMED _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____

FINAL SURVEY
 SURVEYED _____ BY _____ DATE _____
 PLOTTED _____
 TRIMMED _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____



SEE CROSS SECTIONS UNDER THE STRUCTURE FOR THIS SIDE OF THE CHANNEL. (1+20 TO 1+60)

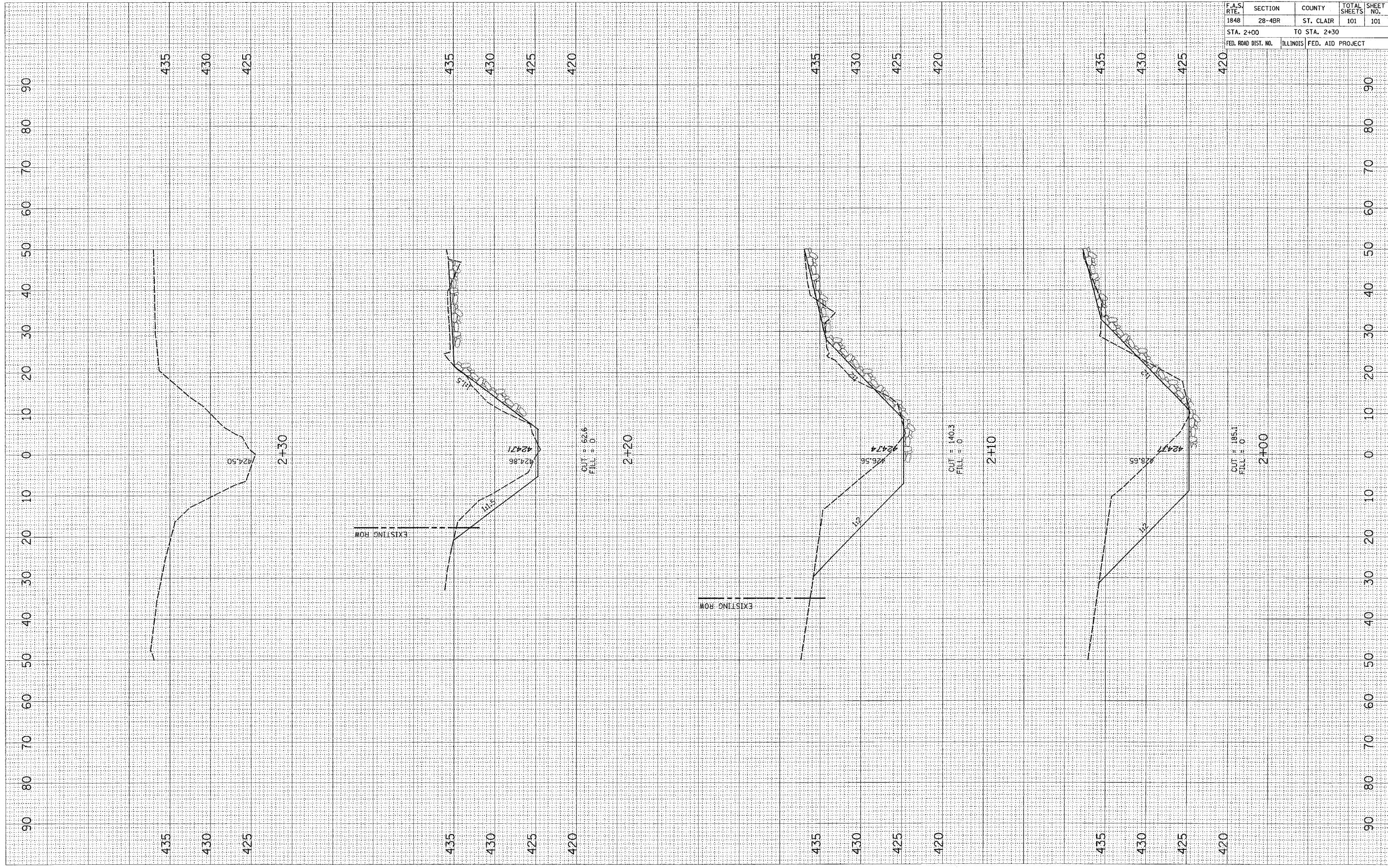
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STA. 1+60		TO STA. 1+90		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLOT DATE = 2/9/2006
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 USER NAME = herbaughd

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

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

BY DATE



CONTRACT NO. 76394				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1848	28-4BR	ST. CLAIR	101	101
STA. 2+00 TO STA. 2+30				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SN 082-0272 CHANNEL