

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	1

CONTRACT NO. 76129

71 total sheets
62 sheets

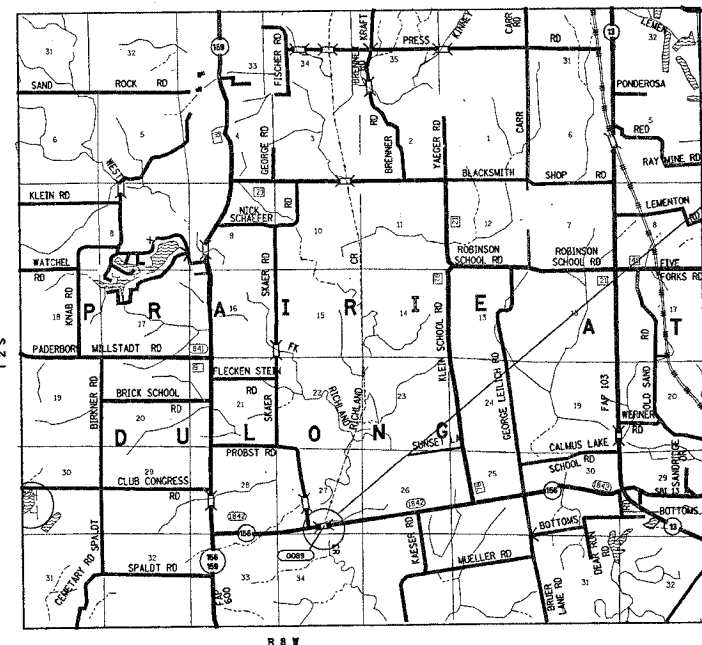
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 1842 (IL 156)
SECTION 106 BR
PROJECT: ACBRS-1842 (101)
STRUCTURE REPLACEMENT
OVER RICHLAND CREEK
ST CLAIR COUNTY
C-98-105-03

FOR INDEX OF SHEETS, SEE SHEET NO. 2

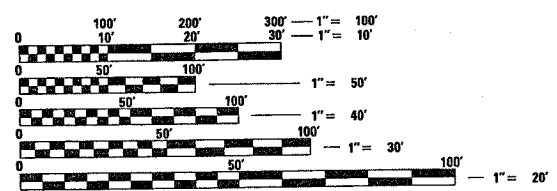
D-98-141-98



PROJECT LOCATION
IL 156 OVER RICHLAND CREEK
STA 665+15.00
SN 082-0089 (E)
SN 082-0387 (P)

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
SQUAD CONTACT: ART MUEHLFELD (618) 346-3209

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

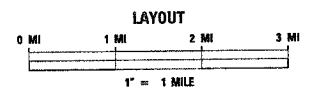


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

TRAFFIC DATA:

	2007	2027
ADT:	2800	4000
SU:	4.9%	4.9%
MU:	4.1%	4.1%



GROSS LENGTH = 900.0 FT = 0.170 MILES
NET LENGTH = 900.0 FT = 0.170 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 12, 2006

Mary C. Jamie
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

February 2, 2007
Eric E. Hamm
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2007
Milton R. See, P.E.
DIRECTOR, DIVISION OF HIGHWAYS

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

CONTRACT NO. 76129

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 76129				

INDEX OF SHEETS

1. COVER PAGE
2. INDEX OF SHEETS/HIGHWAY STANDARDS/GENERAL NOTES
- 3-4. SUMMARY OF QUANTITIES
5. TYPICAL SECTIONS/MIXTURE REQUIREMENTS
- 6-7. SCHEDULE OF QUANTITIES
8. TIE POINTS AND BENCHMARKS
9. PLAN AND PROFILE SHEET
- 9a. PLAN AND PROFILE SHEET (BERM)
10. WIDE LOAD SIGNING
- 11-13. SUGGESTED STAGE I OF CONSTRUCTION AND TRAFFIC CONTROL
- 14-16. SUGGESTED STAGE II OF CONSTRUCTION AND TRAFFIC CONTROL
- 17-18. PLAT OF HIGHWAYS
19. PAVEMENT MARKING DETAILS
- 20 -21. DETAIL SHEETS
- 22-43. STRUCTURE PLANS
- 44-51. EXISTING STRUCTURE PLANS
- 52-61. CROSS SECTIONS

HIGHWAY STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH OF A FOOT
420401-05	BRIDGE APPROACH PAVEMENT
482011-02	HMA SHLD. STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-02	NAME PLATE FOR BRIDGES
630001-07	STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC CONTROL BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT OF WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5m (15') TO 600m (24") FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
704001-03	TEMPORARY CONCRETE BARRIER
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
2. ANY REFERENCE TO "BITUMINOUS CONCRETE" SHALL BE CONSTRUED TO DENOTE "HOT-MIX ASPHALT".
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
4. THE AGGREGATE SHOULDER WILL BE CONSTRUCTED AS SHOWN ON THE TYPICAL SECTION AS 6 INCH THICK AND ACCORDING TO SECTION 481 OF THE STANDARD SPECIFICATIONS. THE AGGREGATE SHOULDER TYPE B IS MEASURED FOR PAYMENT IN SQUARE YARDS WITH A MEASURED TOP SURFACE WIDTH OF 3 FEET. THE CONSTRUCTION OF THE AGGREGATE WEDGE BEYOND THE 3 FOOT WIDTH NECESSARY TO TIE INTO THE SIDE SLOPE WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF AGGREGATE SHOULDER, TYPE B, 6 INCH.
5. A QUANTITY OF 2290 FEET OF "TEMPORARY PAVEMENT MARKING - LINE 6" WHITE HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
6. AN ADDITIONAL QUANTITY OF 32 SQ YD OF AGGREGATE BASE COURSE, TYPE B HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO ENTRANCES DURING THEIR RECONSTRUCTION.
7. THE REMOVAL OF THE BRIDGE APPROACH PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT REMOVAL.
8. 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:
 - AT&T ILLINOIS
 - AMEREN IP
 - MONROE CO. ELECTRIC COOPERATIVE, INC.
 - VERIZON NORTH, INC.

MEMBERS OF J.U.L.I.E (800) 892-0123 ARE INDICATED BY *. NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
9. NEW JERSEY (NJ) SHAPE BARRIER WILL BE ALLOWED ON THIS PROJECT. INSTALLATION SHALL BE AS DETAILED ON PAGE 21 OF THE PLANS.

GENERAL NOTES CONT'D

10. IF ANY SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, FERTILIZING, AND MULCHING ANY AREAS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION. THE SEEDING SHALL BE CLASS 2. THE APPLICATION OF THE SEEDING, FERTILIZER, AND MULCH SHALL BE TO THE SATISFACTION OF THE ENGINEER. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.
12. IF THE CONTRACTOR REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS FOR HIS CONSTRUCTION ACTIVITY, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE, IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
13. EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE STEADY BURN LIGHTS.
14. RIGHT OF WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT OF WAY BOUNDARY. RIGHT OF WAY PROPERTY CORNERS ARE MARKED BY A 5/8" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT OF WAY MARKERS.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
2. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), EARTH MEDIAN AND/OR OTHER MATERIAL APPROVED BY THE EROSION AND SEDIMENT CONTROL COORDINATOR.
3. TEMPORARY DITCH CHECK, GEOTEXTILES, ROLLED EXCELSIOR, SILT WEDGES, PANELS SHALL BE LOCATED AT EVERY 1.5 FT FALL/RISE IN DITCH GRADE.
4. TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3 - REMOVE AT END OF CONSTRUCTION.
5. 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.
6. ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING AS DIRECTED BY THE ENGINEER.
7. CLASS 2 SEEDING AND EROSION CONTROL BLANKET IS TO BE PLACED AS SOON AS EARTHWORK IS COMPLETED.
8. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS
9. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.

COMMITMENTS

1. THE EXISTING EARTHEN BERM ELEVATION SOUTH OF THE BRIDGE AND ON THE EAST SIDE OF THE CREEK SHALL BE MAINTAINED DURING AND AFTER CONSTRUCTION.
2. TREE FELLING SHOULD BE RESTRICTED TO THE DATES BETWEEN SEPTEMBER 30 AND APRIL 1 OF ANY YEAR, WHEN THE INDIANA BATS ARE NOT BREEDING (I.E. NOT OCCUPYING NURSERY TREES).
3. THE CONTRACTOR SHALL PROTECT THE WETLAND AND RESEED ALL DISTURB AREAS WITH RED TOP AT 10 LBS/ACRE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS/GENERAL NOTES/
& HIGHWAY STANDARDS

FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76129				

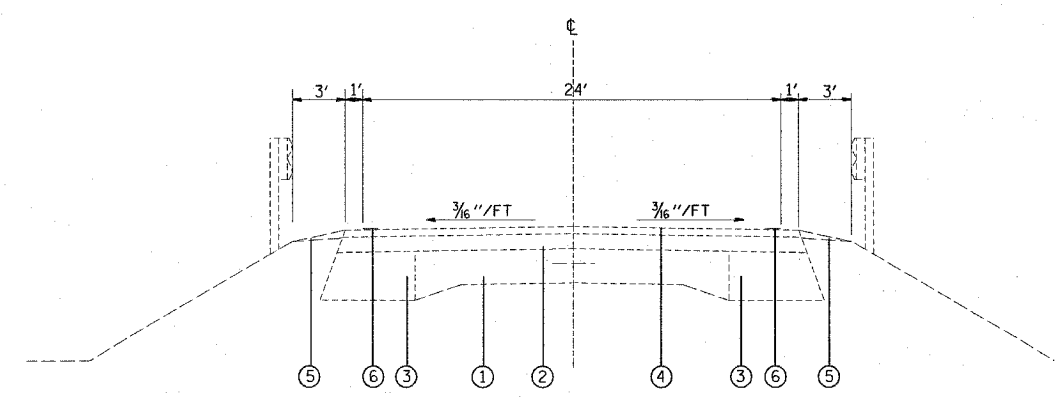
SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		I000-2A	X071-2A	SFTY-3N
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	84	84		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	148	148		
20200100	EARTH EXCAVATION	CU YD	255	255		
20200500	EARTH EXCAVATION (WIDENING)	CU YD	205	205		
20400800	FURNISHED EXCAVATION	CU YD	1605	1605		
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	156		156	
25000200	SEEDING, CLASS 2	ACRE	0.65	0.65		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	56.5	56.5		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	56.5	56.5		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	56.5	56.5		
25100105	MULCH, METHOD 1	ACRE	0.65	0.65		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	113	113		
28000300	TEMPORARY DITCH CHECKS	EACH	6	6		
28000400	PERIMETER EROSION BARRIER	FOOT	620	620		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28000700	MULCH, METHOD 1	ACRE	1.25	1.25		
28100109	STONE RIPRAP, CLASS A5	SQ YD	1933	273	1660	
28200200	FILTER FABRIC	SQ YD	1933	273	1660	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	441	441		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	118	118		
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	378	378		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.6		
40600300	AGGREGATE (PRIME COAT)	TON	3	3		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	301	301		
40600990	TEMPORARY RAMP	SQ YD	174	174		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1122	1122		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	128	128		
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	240		240	
44000100	PAVEMENT REMOVAL	SQ YD	359	359		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1134	1134		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	378	378		
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	504	504		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50105220	PIPE CULVERT REMOVAL	FOOT	44.5	44.5		
50200100	STRUCTURE EXCAVATION	CU YD	208		208	

SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		I000-2A	X071-2A	SFTY-3N
50300100	FLOOR DRAINS	EACH	32		32	
50300225	CONCRETE STRUCTURES	CU YD	147.4		147.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	348.5		348.5	
50300260	BRIDGE DECK GROOVING	SQ YD	1031		1031	
50300300	PROTECTIVE COAT	SQ YD	1321		1321	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1	
50500505	STUD SHEAR CONNECTORS	EACH	3618		3618	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	156360		156360	
50800515	BAR SPLICERS	EACH	992		992	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	425		425	
51202305	DRIVING PILES	FOOT	425		425	
51203600	TEST PILE STEEL HP12X53	EACH	2		2	
51205200	TEMPORARY SHEET PILING	SQ FT	1155		1155	
51500100	NAME PLATES	EACH	1		1	
* 51603000	DRILLED SHAFT IN SOIL	CU YD	82.8			
52100520	ANCHOR BOLTS 1" DIA.	EACH	24		83.8	
* 51604000	DRILLED SHAFT IN ROCK	CU YD	28.3		24	
52100540	ANCHOR BOLTS 1 1/2" DIA.	EACH	24		28.3	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12		12	
54213459	END SECTIONS 24"	EACH	4	4		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	41	41		
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	44.5	44.5		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	73		73	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	149		149	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	562.5	562.5		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4		
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	487.5	487.5		
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9		
67100100	MOBILIZATION	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2		
70106600	TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6		

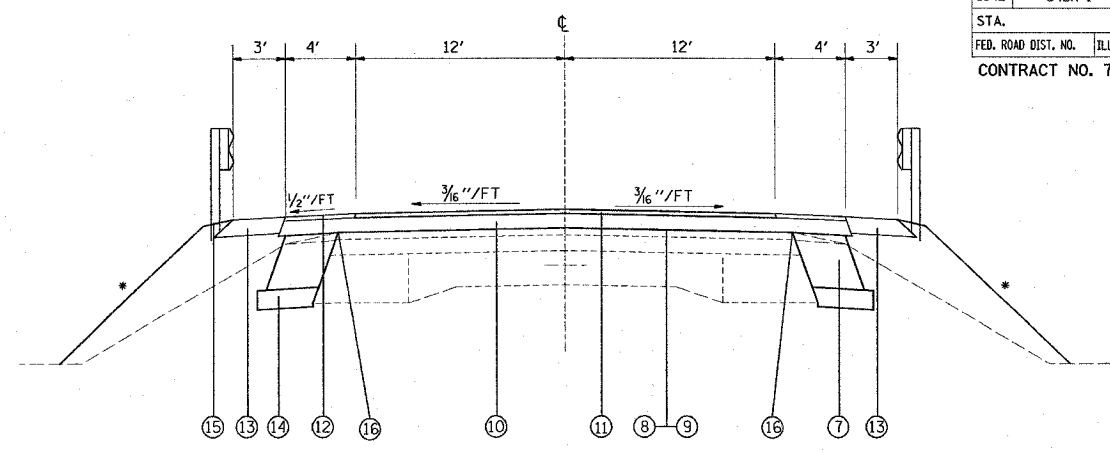
* SPECIALTY ITEMS

REV.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	54BR-1	ST CLAIR	61	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 76129				

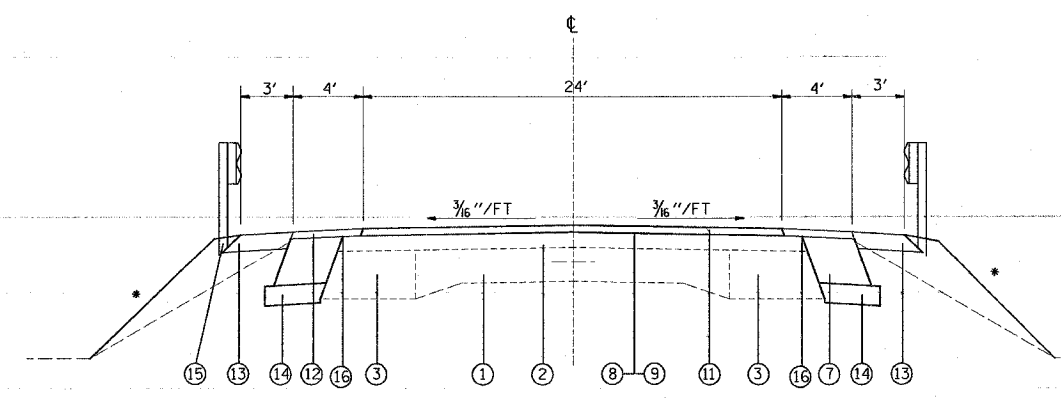


EXISTING TYPICAL SECTION
 STA. 664+15.50 TO STA. 667+99.00
 STA. 671+32.00 TO STA. 674+15.50



* SLOPE VARIES SEE CROSS SECTIONS

PROPOSED TYPICAL SECTION
 STA. 665+75.00 TO STA. 667+99.00
 STA. 671+32.00 TO STA. 674+15.50



* SLOPE VARIES SEE CROSS SECTIONS

PROPOSED TYPICAL SECTION
 STA. 665+15.50 TO STA. 665+75.00
 STA. 673+75.00 TO STA. 674+15.50

LEGEND

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING BITUMINOUS OVERLAY 3"
- ③ EXISTING BASE COURSE WIDENING 9"
- ④ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2"
- ⑤ EXISTING AGGREGATE SHOULDERS, TYPE B
- ⑥ EXISTING PAINT PAVEMENT MARKING LINE 4"
- ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- ⑧ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑨ PROPOSED AGGREGATE (PRIME COAT)
- ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE, (VARIES 6 1/2" TO 10 1/2")
- ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 1 1/2"
- ⑬ PROPOSED AGGREGATE SHOULDER, TYPE B 6"
- ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A 4"
- ⑮ PROPOSED GUARDRAIL
- ⑯ PROPOSED STRIP REFLECTIVE CRACK CONTROL

MIXTURE REQUIREMENTS

MIXTURE USE	SURFACE	BINDER	BSE CSE WIDENING	SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	10%	15%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 50	2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)		IL 19.0		
FRICTION AGG	MIXTURE "C"	MIXTURE "B"	BSE CSE	BAM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
MIXTURE REQUIREMENTS
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 12/11/2006
 FILE NAME = c:\p\proj\sect\106br\prof\106br4.dgn
 PLOT SCALE = 50.0000' / 1" IN.
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

RESURFACING SCHEDULE

STATION		HMA BS COURSE WIDENING (SQ YD)	AGGREGATE PRIME COAT (TON)	BITUMINOUS MATERIAL PRIME COAT (TON)	HMA BINDER COURSE (TON)	HMA SURF. CSE, SUPER. MIX "C", N70 (TON)	HMA SHLD 1 1/2" (SQ YD)	AGG. SHLD TYPE B 6" (SQ YD)	AGG. BSE CSE TYPE B 8" (SQ YD)	SUB-BASE GR. MAT'L TYPE A 4" (SQ YD)	TEMP. RAMP (SQ YD)	BRIDGE APPROACH PVM'T (SQ YD)	STRIP REFL CRACK CTRL TREATMENT (FT)
665+15.50	RT/LT										86.67		
665+15.50 TO 667+99.00	RT/LT	189.00	1.22	0.26	596.15	63.51	252.00	189.00		220.5			567.00
666+03.00	FE							85.46					
667+99.00 TO 668+29.00	RT/LT											120.00	
671+02.00 TO 671+32.00	RT/LT											120.00	
671+32.00 TO 674+15.50	RT/LT	189.00	1.23	0.26	525.76	63.51	252.00	189.00		220.5			567.00
674+15.50	RT/LT										86.67		
TOTAL		378.00	2.45	0.52	1121.91	127.02	504.00	378.00	85.46	441.0	173.34	240.00	1134.00

TEMPORARY PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING SCHEDULE

STATION		PAVEMENT			BRIDGE		
		4" WHITE LINE (FT)	YELLOW SKIP DASH LINE 4" (FT)	DOUBLE AMBER RSD REFL PMK MKR (EA)	4" WHITE LINE (FT)	YELLOW SKIP DASH LINE 4" (FT)	DOUBLE AMBER RSD REFL PMK MKR (EA)
662+38.50 TO 667+99.00	CL		140.13	7			
665+15.50 TO 667+99.00	RT/LT	567.00					
667+99.00 TO 671+32.00	CL				83.25	4	
667+99.00 TO 671+32.00	RT/LT				666.00		
671+32.00 TO 676+87.00	CL		138.75	7			
671+32.00 TO 674+18.50	RT/LT	573.00					
SUB-TOTAL		1140.00	278.88	14	666.00	83.25	4
TOTAL			1418.88	14	749.25	4	

STATION			PAVEMENT MARKING					WORK ZONE PVM'T MKNG REMOVAL (SQ FT)	PVM'T MKRG REMOVAL (SQ FT)	BARRIER WALL MKRS, TYPE C (EA)	
			4" LINE PAVEMENT (FT)	4" LINE BRIDGE (FT)	6" LINE PAVEMENT (FT)	6" LINE BRIDGE (FT)	24" LINE PAVEMENT (FT)				
662+38.50		RT	STOP BAR								
662+38.50 TO 664+00.00	CL		STAGE I	40.38				13.5			
664+14.89 TO 675+16.98	LT		STAGE I			823	333				
662+38.50 TO 665+15.50	CL								23.1		
665+15.50 TO 674+15.50	RT/LT		STAGE I	1378.00	422.00			600.0			
665+15.50 TO 675+17.00			STAGE I&II							28	
674+15.50 TO 676+87.00	CL								22.6		
675+00.00 TO 676+87.00	CL		STAGE I	46.8				15.6			
676+87.00			STOP BAR								
664+08.42 TO 674+88.49	RT		STAGE II			801.0	333.0				
665+15.50 TO 674+15.50	RT/LT		STAGE II	1134.0	666.0			600.0			
TOTAL				2599.1	1088.0	1624.0	666.0	26.0	1237.7	45.7	28
				3687.1		2290.0					

REMOVAL SCHEDULE

LOCATION		PVM'T REMOVAL (SQ YD)	HMA SURF. REM. BUTT JOINT (SQ YD)	SPBGR REMOVAL (FT)	PIPE CULV. REMOVAL 15" (FT)	RAISED REFL PVM'T MKRS REMOVAL (EA)
662+38.50 TO 667+99.00	CL					7
665+15.50 TO 665+71.00			160.33			
667+50.86	FE				44.50	
667+54.06 TO 668+79.06	LT			125.00		
667+66.56 TO 668+79.06	RT			112.50		
667+99.00 TO 668+79.06		235.82				
670+90.94 TO 671+32.00		123.17				
670+90.94 TO 672+15.94	LT			125.00		
670+90.94 TO 672+15.94	RT			125.00		
671+32.00 TO 676+87.00	CL					7
673+67.00 TO 674+15.50			140.11			
TOTAL		358.99	300.44	487.50	44.50	14

ROW MARKERS SCHEDULE

STA	OFFSET	RT/LT	ROW MKRS (EA)
667+00.00	40	RT	1
667+00.00	75	RT	1
667+02.34	40	LT	1
667+02.34	75	LT	1
672+50.00	40	RT	1
672+50.00	75	RT	1
672+50.00	40	LT	1
672+50.00	75	LT	1
TOTAL			8

ROW MARKER TO BE SET AT 1' OFFSET TO ROW/PROPERTY CORNER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY
 SCALE: VERT. DATE
 HORIZ. DATE
 DRAWN BY
 CHECKED BY

PLOT DATE = 12/15/2006
 FILE NAME = c:\pav\jens\del4198\p1on\p1on\ref\1a\1198a.dgn
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = SHEET

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	7
STA.		TO STA.		
FEB. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TREE REMOVAL SCHEDULE

STATION	OFFSET	RT/LT	6 TO 15 UNITS				OVER 15 UNITS				
669+08.10	99.15	RT		8							
669+08.99	100.43	RT	6								
669+09.10	100.4	RT	6								
669+09.18	83.7	RT					16				
669+11.48	90.76	RT	6								
669+11.71	102.24	RT			12						
669+12.50	93.18	RT				14					
669+15.01	96.96	RT		10							
669+15.24	77.88	RT						34			
669+18.93	119.81	RT							48		
669+31.55	124.96	RT			12						
669+41.12	98.99	RT		10							
670+60.53	43.8	LT					16				
670+97.99	44.0	LT						18			
671+05.40	46.0	LT					16				
SUB-TOTAL			18	8	20	24	14	48	18	34	48
TOTAL			84				148				

SEEDING SCHEDULE

STATION	SEEDING CL 2 (ACRE)	NITROGEN FERT. NUTR (POUND)	PHOSPHORUS FERT. NUTR (POUND)	POTASSIUM FERT. NUTR (POUND)	MULCH METHOD 1 (ACRE)
665+15.50 TO 674+15.50	LT 0.330	29.68	29.68	29.684	0.33
665+15.50 TO 674+15.50	RT 0.294	26.42	26.42	26.421	0.29
TOTAL	0.62	56.11	56.11	56.11	0.62

TEMPORARY EROSION CONTROL SCHEDULE

LOCATION	RT/LT	TEMPORARY EROSION CONTROL SEEDING (POUND)	MULCH METHOD 1 (ACRE)	PERIMETER EROSION BARRIER (FOOT)	TEMP DITCH CHECK (EACH)	INLET & PIPE PROTECTION (EACH)
665+15.50 TO 668+29.00	RT/LT				6	
665+15.50 TO 674+15.50	LT	59.40	0.66			
667+50.86	FE RT					2
671+10.00 TO 674+20.00	RT/LT			620		
665+15.50 TO 674+15.50	RT	52.92	0.58			
TOTAL		112.32	1.24	620.00	6	2

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STA. 665+00.00 TO STA. 668+25.00	222.2	166.6	507.3	-340.7
STA. 671+10.00 TO STA. 674.50.00	30.7	23.1	823.2	-800.2
STA. 665+15.50 TO STA. 668+79.06	103.8	77.8	0.0	77.8
STA. 670+90.94 TO STA. 674+15.50	97.9	73.4	0.0	73.4
STA. 0+35.00 TO STA. 1+75.00	0.0	0.0	613.7	-613.7
TOTAL	454.6	340.9	1944.2	-1603.4

GUARDRAIL SCHEDULE

STATION	SPBGR (FT)	TBT-T1 (SPECIAL) (EA)	TBT-T6 (EA)	GUARDRAIL MRKS TYPE A (EA)	PRISMATIC BARRIER REFLEC. (EA)
666+35.25 TO 668+29.00	RT 150.00	1	1	3	
666+85.25 TO 668+29.00	LT 100.00	1	1	2	
668+29.00 TO 671+02.00	RT				4.0
668+29.00 TO 671+02.00	LT				4.0
671+02.00 TO 673+33.25	LT 187.50	1	1	3	
671+02.00 TO 672+70.74	RT 125.00	1	1	2	
TOTAL	562.50	4	4	10	8.0

EARTHWORK SCHEDULE (WIDENING)

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STA. 665+15.50 TO STA. 668+79.06	103.8	77.8	0.0	77.8
STA. 670+90.94 TO STA. 674+15.50	97.9	73.4	0.0	73.4
TOTAL	201.7	151.2	0.0	151.2

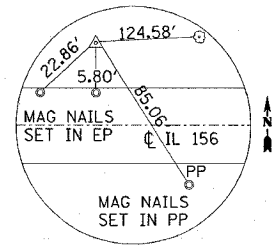
CULVERT SCHEDULE

LOCATION					CLASS D		END SECT.
FROM	OFFSET	TO	OFFSET	RT/LT	TYPE 1 24 INCH (FT)	TYPE 2 24 INCH (FT)	24 INCH (FT)
665+31.60	30.4	665+72.60	30.4	RT	41		2
668+28.14	41.90	668+72.36	36.9	RT		44.5	2
TOTAL					41	44.5	4

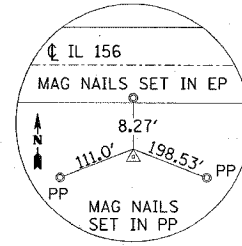
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY
 SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

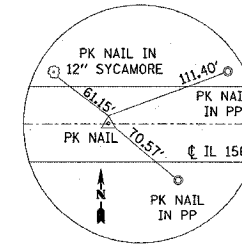
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



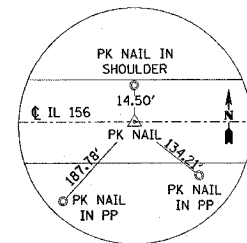
TIE POINT #1
I.P. W/IDOT CAP



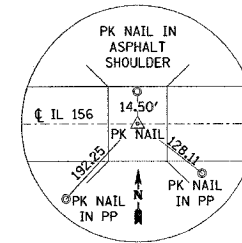
TIE POINT #2
I.P. W/IDOT CAP
IN FIELD ENTRANCE



TIE POINT #3
TIES P.O.T.
STA. 660+00



TIE POINT #5
TIES P.O.T.
EAST OF BRIDGE
STA. 679+00.



TIE POINT #4
CENTER OF BRIDGE
STA. 669+84.84

BENCHMARKS

ELEV.	DESCRIPTION
416.65	A CHISELED "□" N.W. CORNER CONCRETE SLAB FOR GAGING STATION.

NOTE: ALL TIES PULLED DIRECT

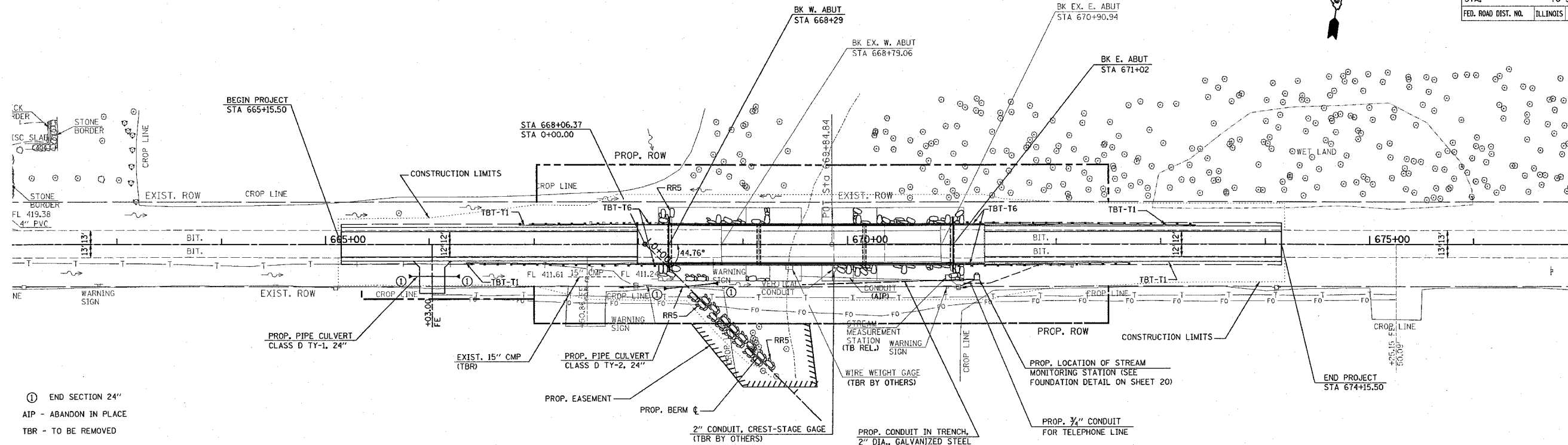
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TIES & BENCHMARKS
FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT.
DATE: HORIZ.

DRAWN BY
CHECKED BY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST. CLAIR	61	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



Ⓢ END SECTION 24"
 AIP - ABANDON IN PLACE
 TBR - TO BE REMOVED

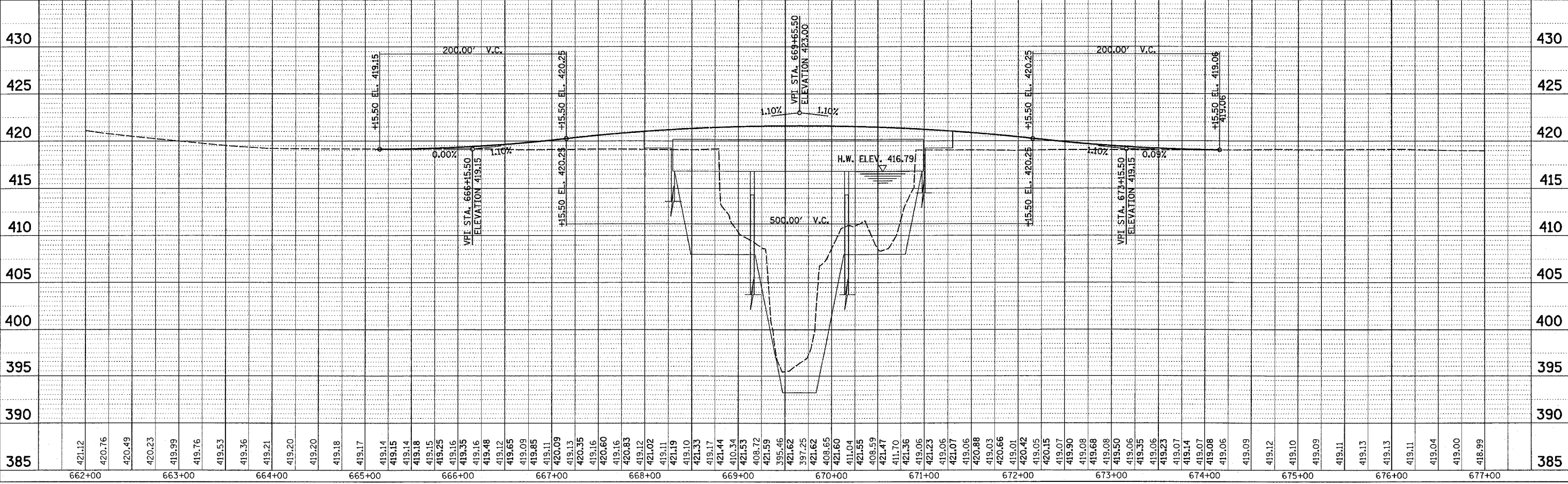
NOTE:
 REMOVE & RELOCATE STREAM GAGE HOUSE AND ASSOCIATE WORK AS PER SPECIAL PROVISION



PLAN	DATE
BY	
REVIEWED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
DATE FILE NAME	
NO.	

PROFILE	DATE
BY	
REVIEWED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
DATE FILE NAME	
NO.	

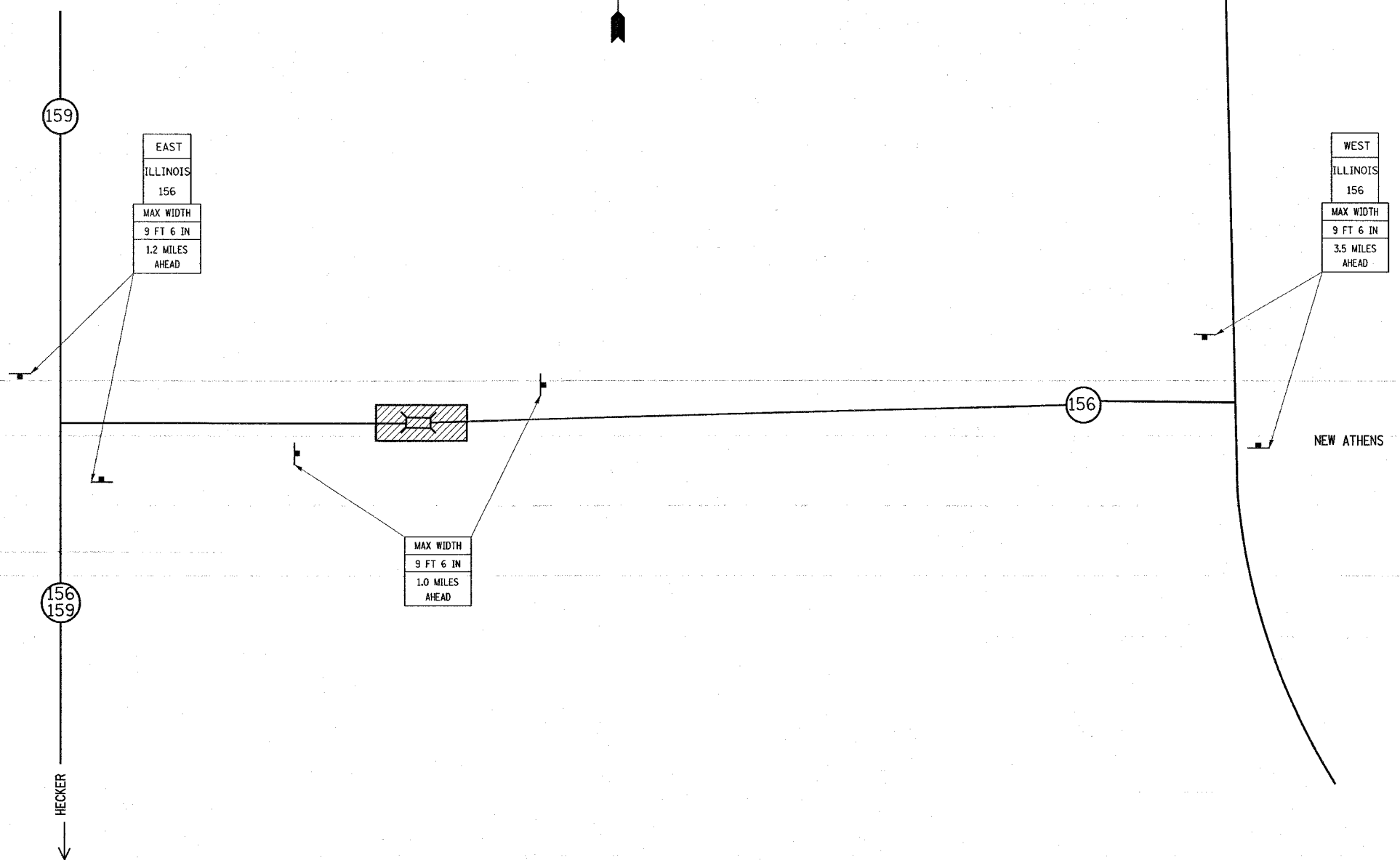
PLOT DATE = 12/15/2006
 FILE NAME = c:\paw\paw\14198\plan\paw\paw\14198a.dgn
 USER NAME = gahnh



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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 RE/RT. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE @ (618) 346-3289.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.



SIGNS REQUIRED		
MAX WIDTH 9 FT 6 IN 1.0 MILES AHEAD	(2)	EAST (2)
MAX WIDTH 9 FT 6 IN 1.2 MILES AHEAD	(2)	WEST (2)
MAX WIDTH 9 FT 6 IN 3.5 MILES AHEAD	(2)	ILLINOIS 156 (4)

PLOT DATE = 12/11/2006
 FILE NAME = c:\p\projects\ad\1198\plan\pof\1a14198a4.dgn
 PLOT SCALE = 50.0000 / 1 IN.
 REFERENCE = #REF#

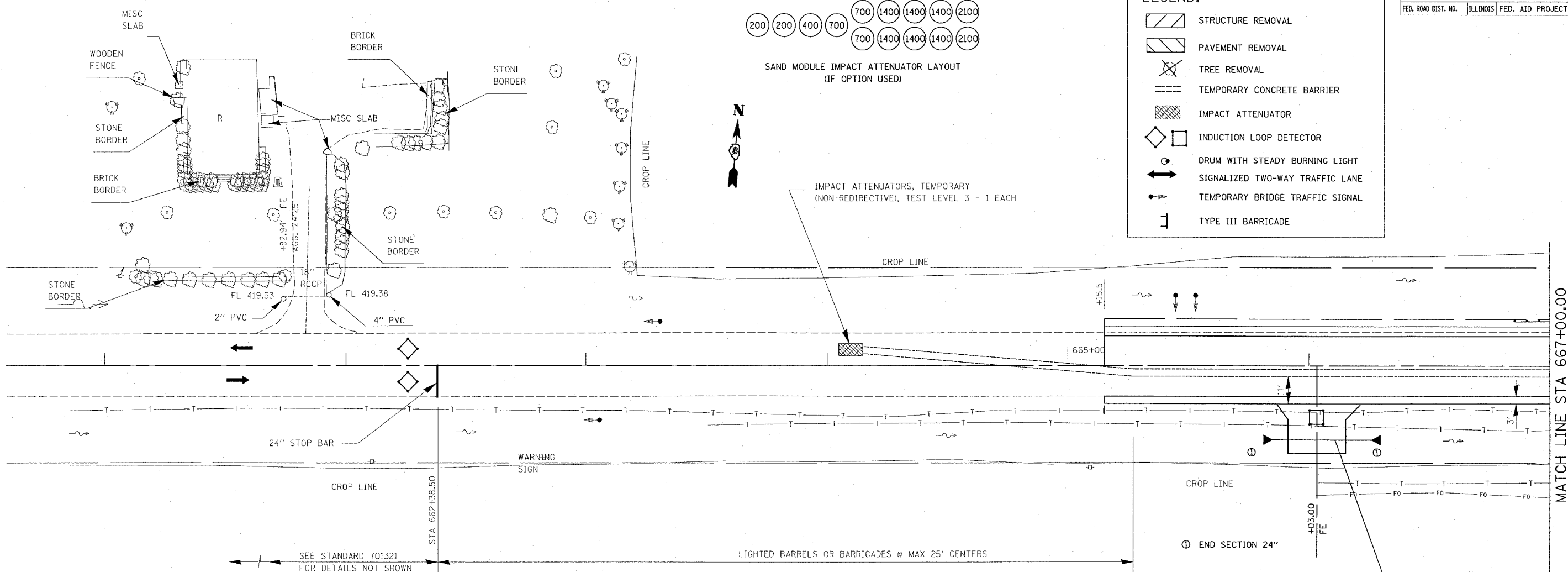
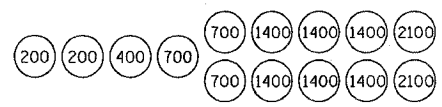
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDE LOAD SIGNING
 SCALE: VERT. DRAWN BY
 DATE HORIZ. CHECKED BY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	11
STA. 660+59.50		TO STA. 667+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:

- STRUCTURE REMOVAL
- PAVEMENT REMOVAL
- TREE REMOVAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- INDUCTION LOOP DETECTOR
- DRUM WITH STEADY BURNING LIGHT
- SIGNALIZED TWO-WAY TRAFFIC LANE
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- TYPE III BARRICADE



PRE-STAGE I CONSTRUCTION:

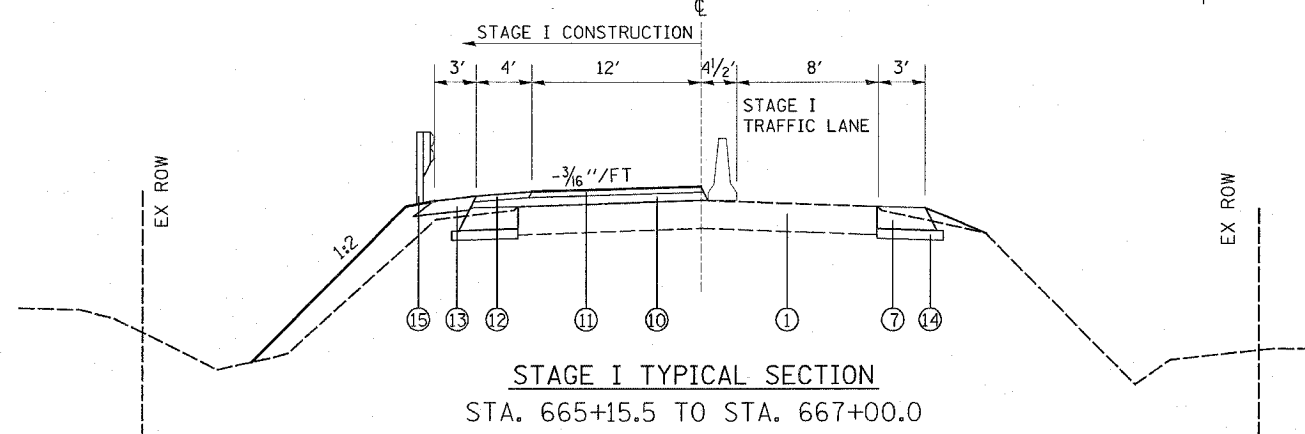
- PRE-STAGE I CONSTRUCTION SHALL CONSIST OF THE CONSTRUCTION OF THE 3' PAVEMENT WIDENING ON THE SOUTHWEST AND SOUTHEAST CORNERS OF THE STRUCTURE AND THE FIELD ENTRANCE AT STATION 665+50.00 (RT). TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701326.

STAGE I CONSTRUCTION:

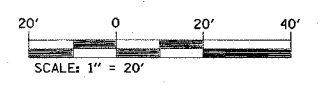
- STAGE I CONSTRUCTION SHALL CONSIST OF STAGE I REMOVAL OF THE EXISTING STRUCTURE, AND STAGE I CONSTRUCTION OF THE REPLACEMENT STRUCTURE, PAVEMENT WIDENING ON THE LEFT, GRADING, RESURFACING THE LEFT SIDE PAVEMENT EAST AND WEST OF THE STRUCTURE, GUARDRAIL, RIPRAP, ETC. STAGE I CONSTRUCTION SHALL BE DONE ACCORDING TO STAGE CONSTRUCTION AS DETAILED IN THE BRIDGE PLANS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STANDARD 701321 AND AS DETAILED IN THE STAGE CONSTRUCTION PLANS. THIS TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION 701321 (SPECIAL).

NOTES:

- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE AND FIELD ENTRANCES LOCATED WITHIN THE LIMITS OF THE PROJECT.
- TRAFFIC CONTROL & PROTECTION, STANDARD 701321 (SPECIAL) INCLUDES BOTH STAGE I & II AND ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN ON THE STAGE CONSTRUCTION PLANS.
- ALL ADDITIONAL TRAFFIC SIGNAL HEADS, LOOP DETECTORS AND ASSOCIATED EQUIPMENT REQUIRED TO MAINTAIN ACCESS AT THE FIELD AND DRIVEWAY ENTRANCES SHALL BE INCLUDED IN THE COST OF "TEMPORARY BRIDGE TRAFFIC SIGNALS"



- LEGEND**
- ① EXISTING PAVEMENT
 - ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 10 1/2")
 - ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
 - ⑬ PROPOSED AGGREGATE SHOULDER 6"
 - ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
 - ⑮ PROPOSED GUARDRAIL



REVISIONS	
NAME	DATE

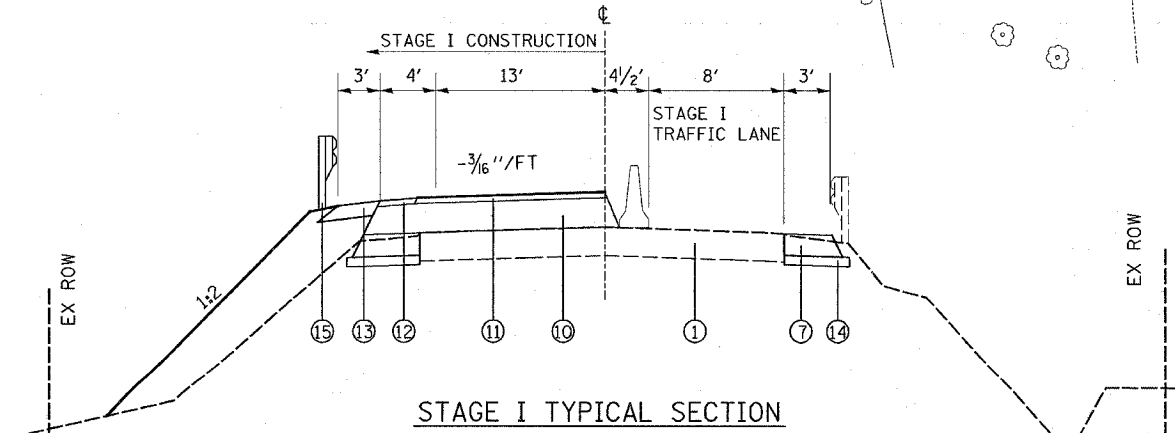
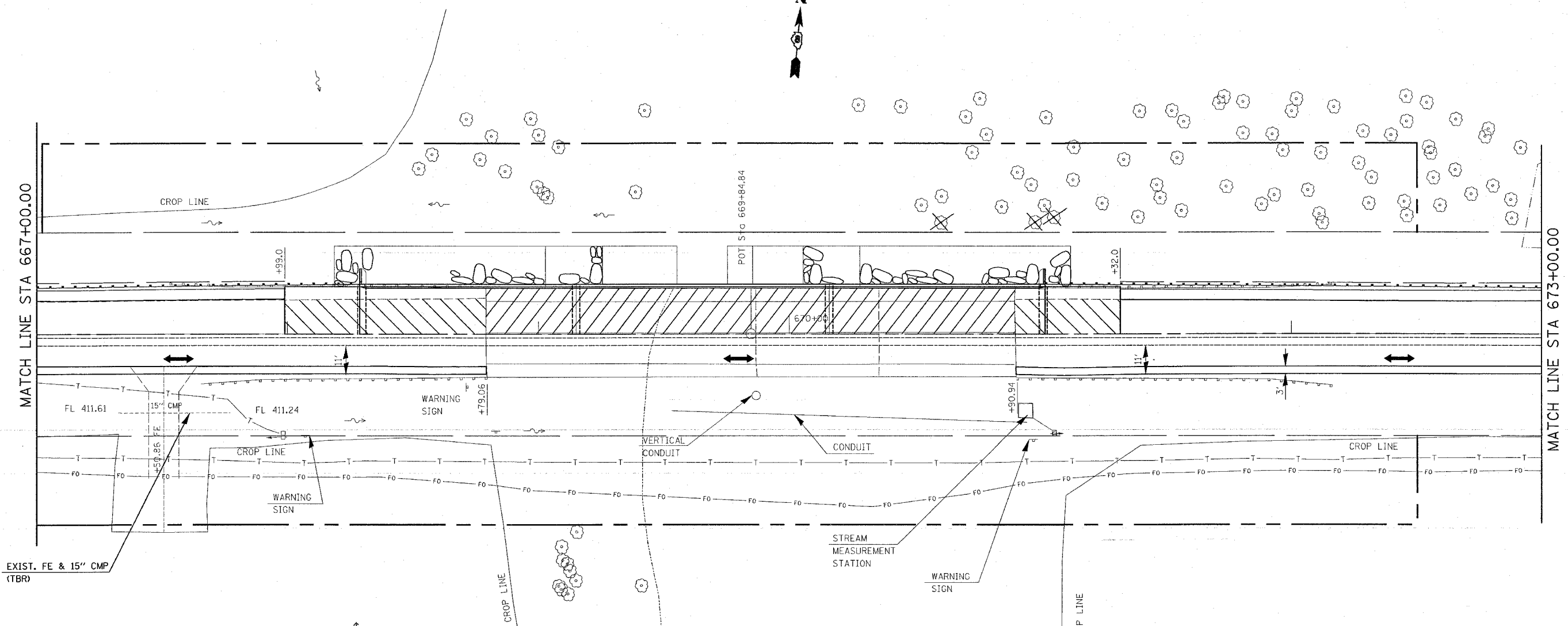
ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGE I CONSTRUCTION
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

SCALE: VERT. HORIZ.
 DATE

DRAWN BY
 CHECKED BY

PLOT DATE = 12/16/2006
 FILE NAME = c:\pwworkspace\114191\plan\106br.dwg
 PLOTTER = HP DesignJet 500 / IN.
 REFERENCE = 46624

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	12
STA. 667+00.00		TO STA. 673+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STAGE I TYPICAL SECTION
 STA. 667+00.0 TO STA. 667+99.0
 STA. 671+32.0 TO STA. 673+00.0

LEGEND

- ① EXISTING PAVEMENT
- ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 10 1/2" TO 21")
- ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
- ⑬ PROPOSED AGGREGATE SHOULDER 6"
- ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
- ⑮ PROPOSED GUARDRAIL



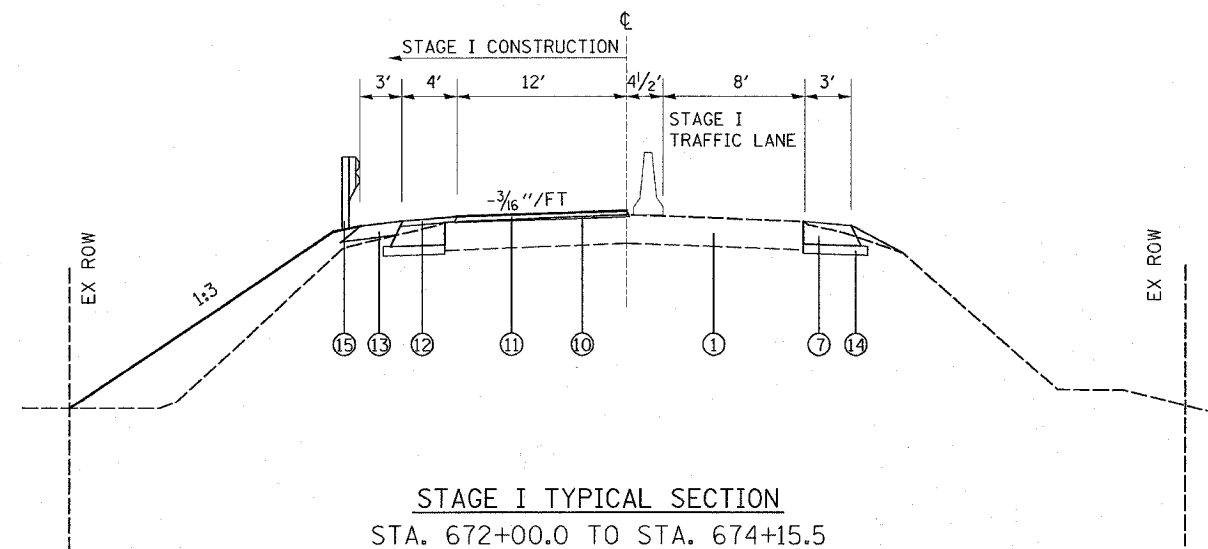
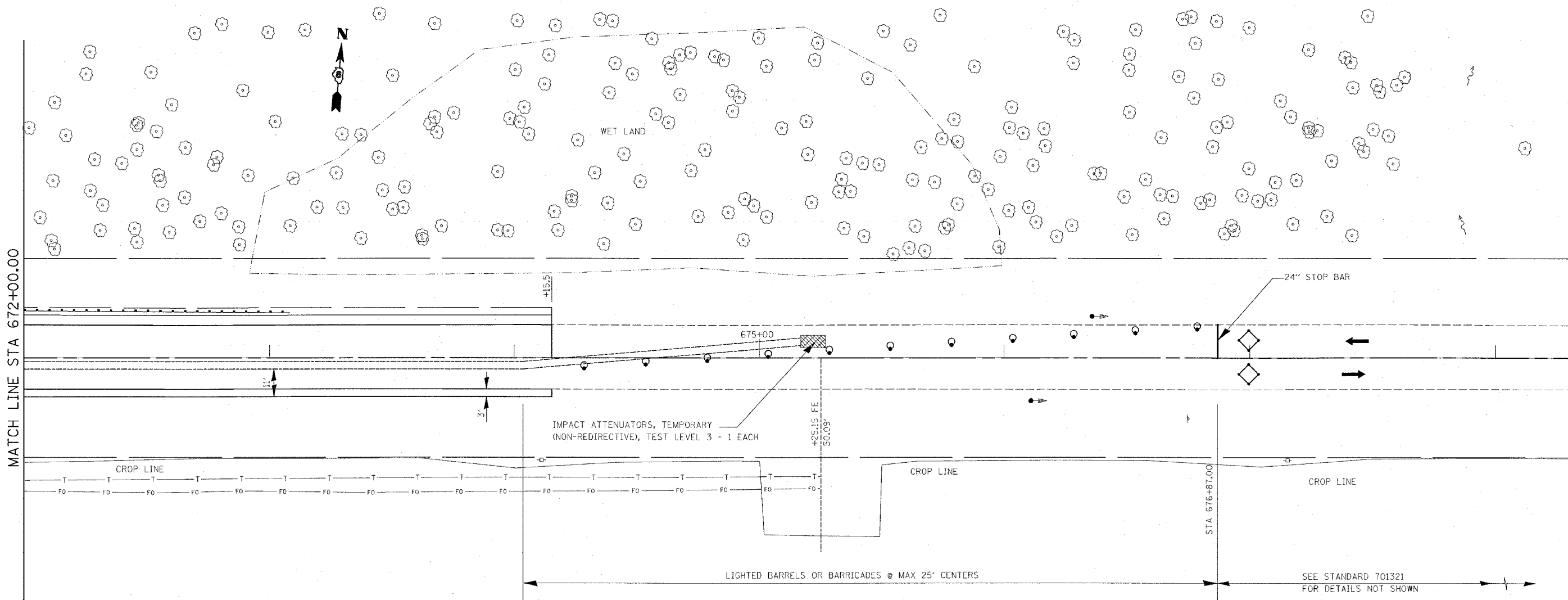
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGE I CONSTRUCTION
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

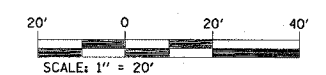
SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____

PLOT DATE 12/11/2006
 FILE NAME c:\p\projects\1842\198\plan\p1842b88.dgn
 PLOT SCALE 20.0000 / IN.
 REFERENCE WREF

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	13
STA. 672+00.00		TO STA. 678+30.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND**
- ① EXISTING PAVEMENT
 - ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 15")
 - ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
 - ⑬ PROPOSED AGGREGATE SHOULDER 6"
 - ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
 - ⑮ PROPOSED GUARDRAIL



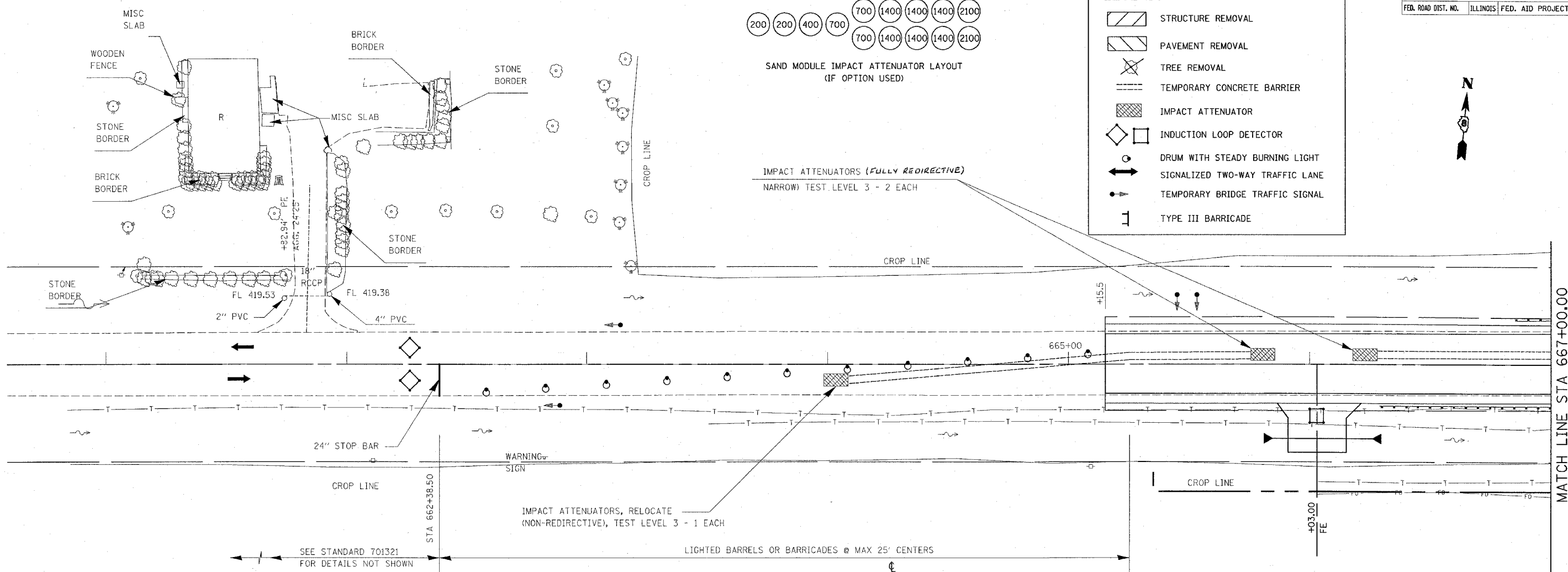
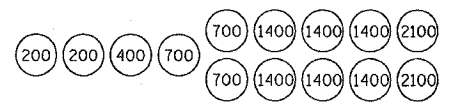
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	SUGGESTED STAGE I CONSTRUCTION	
		FAS ROUTE 1842	
		SECTION 106BR	
		ST CLAIR COUNTY	
		SCALE: VERT.	DRAWN BY
		DATE	CHECKED BY

PLOT DATE = 12/11/2008
 FILE NAME = c:\projects\1842\106br\106br.dgn
 PLOT SCALE = 20,000 / IN.
 REFERENCE = REF

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	14
STA. 667+00.00		TO STA. 673+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND:

- STRUCTURE REMOVAL
- PAVEMENT REMOVAL
- TREE REMOVAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- INDUCTION LOOP DETECTOR
- DRUM WITH STEADY BURNING LIGHT
- SIGNALIZED TWO-WAY TRAFFIC LANE
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- TYPE III BARRICADE

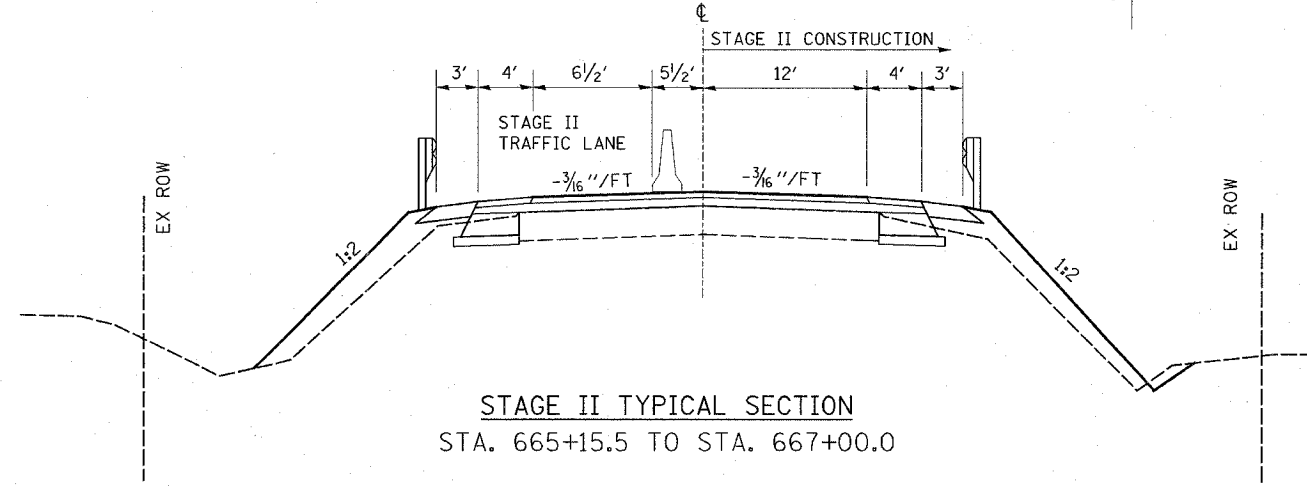


STAGE II CONSTRUCTION:

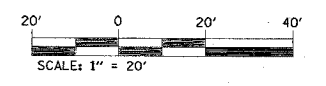
- STAGE II CONSTRUCTION SHALL CONSIST OF STAGE II REMOVAL OF THE EXISTING STRUCTURE, AND STAGE II CONSTRUCTION OF THE REPLACEMENT STRUCTURE, GRADING, RESURFACING THE RIGHT SIDE PAVEMENT EAST AND WEST OF THE STRUCTURE, GUARDRAIL, RIPRAP, ETC. STAGE II CONSTRUCTION SHALL BE DONE ACCORDING TO STAGE CONSTRUCTION AS DETAILED IN THE BRIDGE PLANS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STANDARD 701321 AND AS DETAILED IN THE STAGE CONSTRUCTION PLANS. THIS TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION 701321 (SPECIAL).

NOTES:

- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE AND FIELD ENTRANCES LOCATED WITHIN THE LIMITS OF THE PROJECT.
- TRAFFIC CONTROL & PROTECTION, STANDARD 701321 (SPECIAL) INCLUDES BOTH STAGE I & II AND ANY ADDITIONAL SIGNING OR TRAFFIC CONTROL DEVICES SHOWN ON THE STAGE CONSTRUCTION PLANS.
- ALL ADDITIONAL TRAFFIC SIGNAL HEADS, LOOP DETECTORS AND ASSOCIATED EQUIPMENT REQUIRED TO MAINTAIN ACCESS AT THE FIELD AND DRIVEWAY ENTRANCES SHALL BE INCLUDED IN THE COST OF "TEMPORARY BRIDGE TRAFFIC SIGNALS"



- LEGEND**
- ① EXISTING PAVEMENT
 - ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 1 1/2")
 - ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
 - ⑬ PROPOSED AGGREGATE SHOULDER 6"
 - ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
 - ⑮ PROPOSED GUARDRAIL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGE II CONSTRUCTION
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

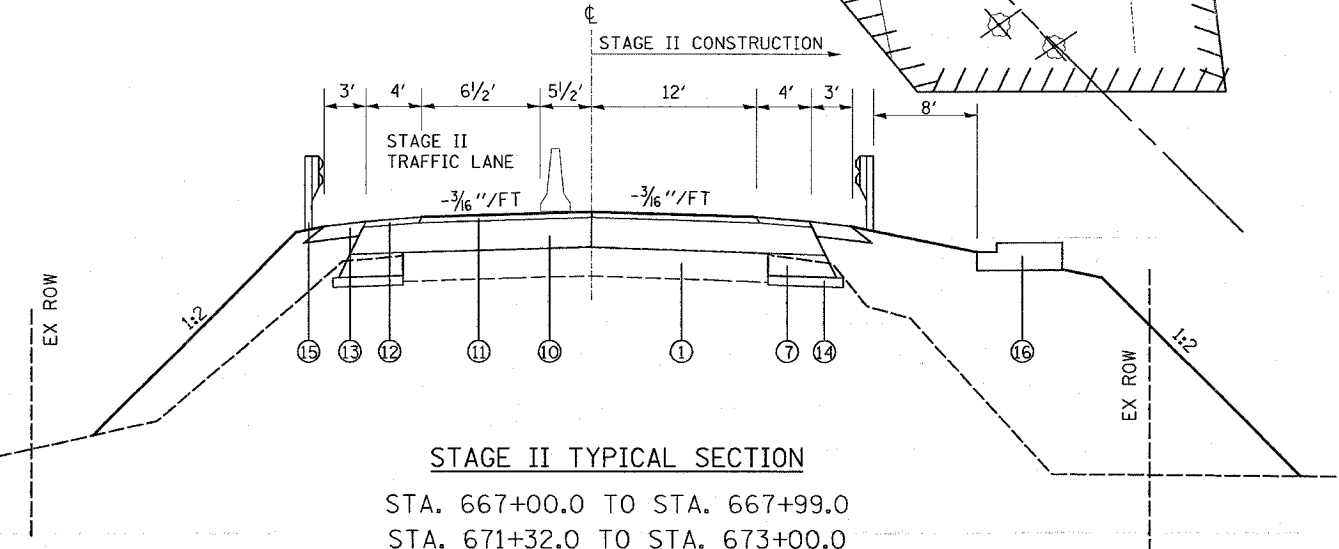
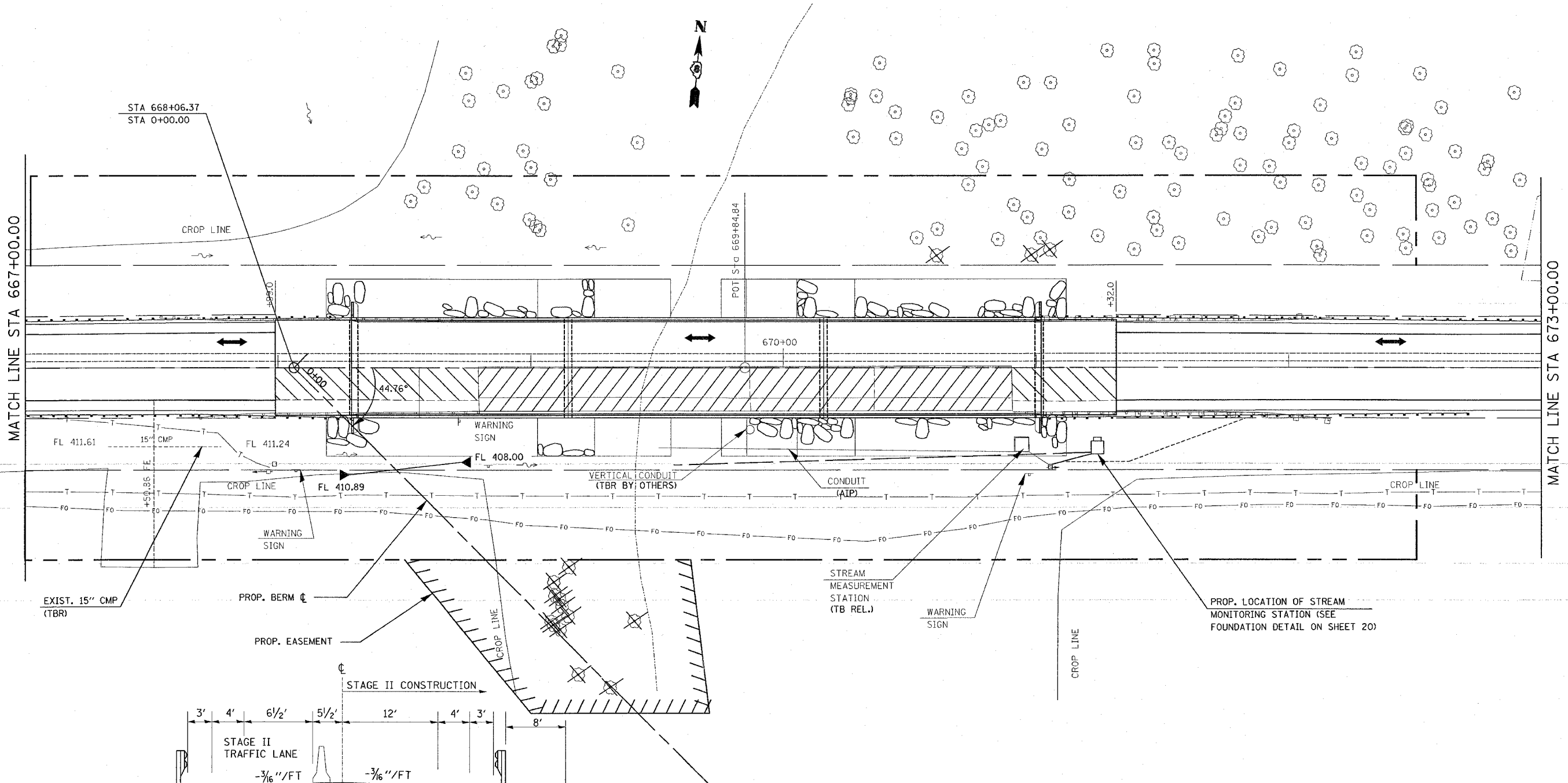
SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

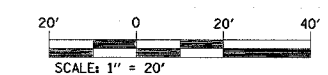
PLOT DATE = 12/15/2006
 FILE NAME = c:\projects\ed1418\plan\pl0606a.dgn
 PLOT SCALE = 20.000' / 1" IN.
 REFERENCE = SHEET #

Rev.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	15
STA. 667+00.00		TO STA. 673+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND**
- ① EXISTING PAVEMENT
 - ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 10" TO 21")
 - ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
 - ⑬ PROPOSED AGGREGATE SHOULDER 6"
 - ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
 - ⑮ PROPOSED GUARDRAIL
 - ⑯ PROPOSED CONCRETE PAD (STREAM MEASUREMENT STATION)



REVISIONS	
NAME	DATE

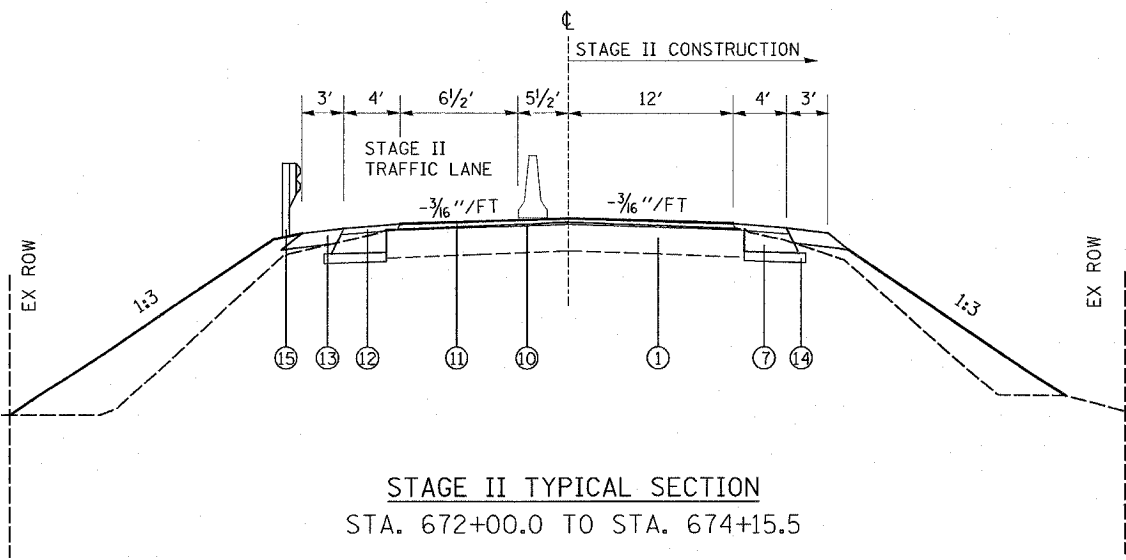
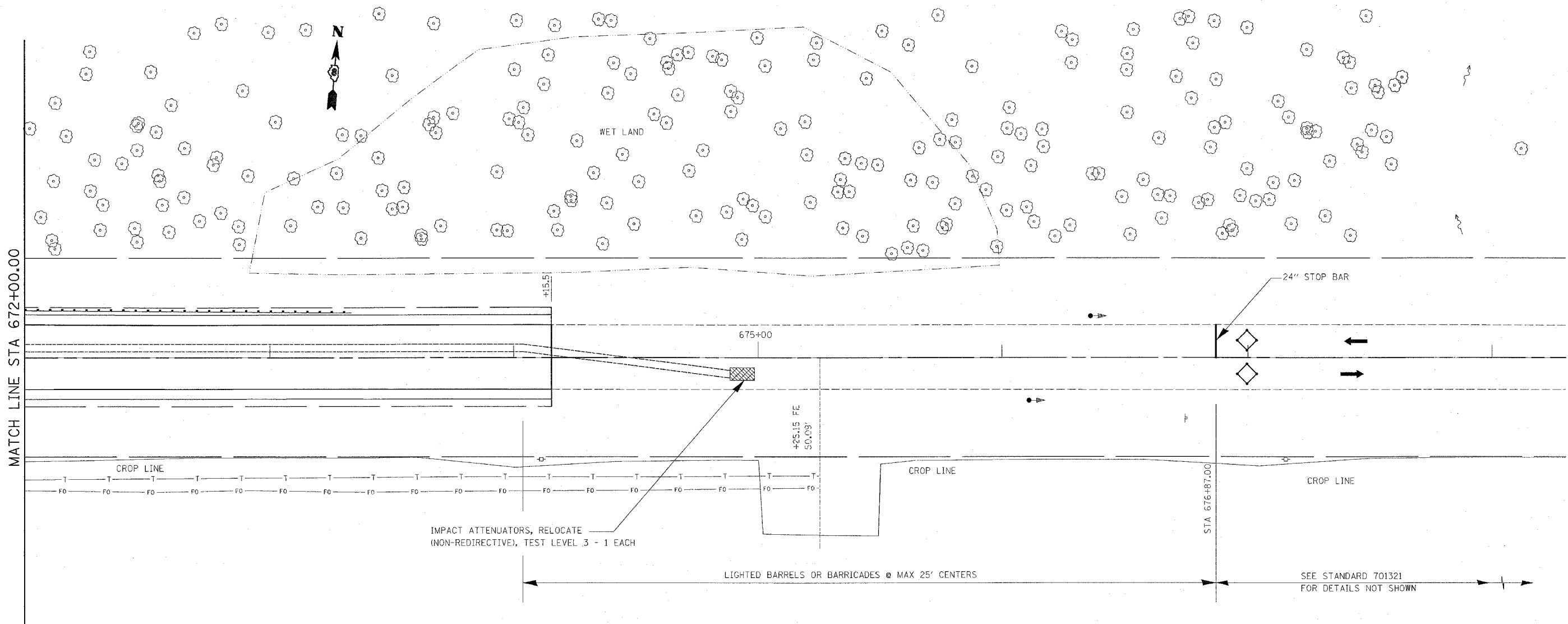
ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGE II CONSTRUCTION
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

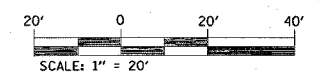
DRAWN BY _____
 CHECKED BY _____

PLOT DATE 12/11/2006
 FILE NAME c:\p\proj\sta\1842\106br\plan\p15.dwg
 PLOT SCALE 1/8" = 1' / IN.
 REFERENCE REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	16
STA. 667+00.00		TO STA. 673+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- ① EXISTING PAVEMENT
 - ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
 - ⑩ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 15")
 - ⑪ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"
 - ⑬ PROPOSED AGGREGATE SHOULDER 6"
 - ⑭ PROPOSED SUBGRADE GRANULAR MATERIAL TYPE A, 4"
 - ⑮ PROPOSED GUARDRAIL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGE II CONSTRUCTION

FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT. / HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 12/11/2006
FILE NAME = c:\p\projects\ad\198\plan\p106br.dgn
PLOT SCALE = 20.0000 / IN.
REFERENCE = SHEET 5

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

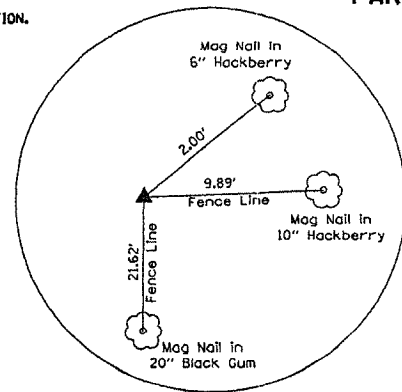
PART OF LOTS 10A & 10B AND 25B & 25D OF US SURVEY 607, CLAIM 2209, T2S, R8W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

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

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106 BR	ST. CLAIR		17	

* FAS-1842

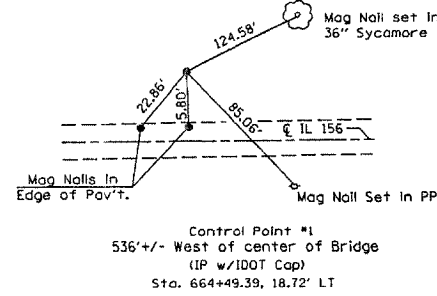
STATION	OFFSET	NORTH	EAST
667+00.00	40.00' RT	603,391.8893	352,485.4426
667+00.00	75.00' RT	603,357.2098	352,490.1681
667+02.34	40.00' LT	603,471.4724	352,476.9578
667+02.34	75.00' LT	603,506.1519	352,472.2323
669+67.21	75.00' LT	603,541.9140	352,734.6840
669+67.80	40.00' LT	603,505.9638	352,730.0825
669+67.80	75.00' RT	603,392.1055	352,746.2601
672+50.00	75.00' LT	603,580.0944	353,014.8799
672+50.00	40.00' LT	603,545.4148	353,019.6054
672+50.00	40.00' RT	603,466.1473	353,030.4066
672+50.00	75.00' RT	603,431.4678	353,035.1321
658+86.54	40.05' RT	603,282.0145	351,679.4325
658+86.94	40.00' LT	603,361.3818	351,669.0260
675+39.79	40.00' RT	603,505.2730	353,317.5470
BEGIN PROJECT 665+15.50		603,406.6128	352,297.2314
END PROJECT 674+15.50		603,528.1260	353,188.9906
NW Cor N P Survey 607		612,389.0720	350,485.3360
CONTROL POINT #1		603,040.4110	351,711.1110
CONTROL POINT #2		603,521.7878	353,294.9125



Detail "A"

Part of North Half of Survey 607, Claim 2209

Recorded in Plat Book "C", Page 318 on March 8, 1870



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
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- 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

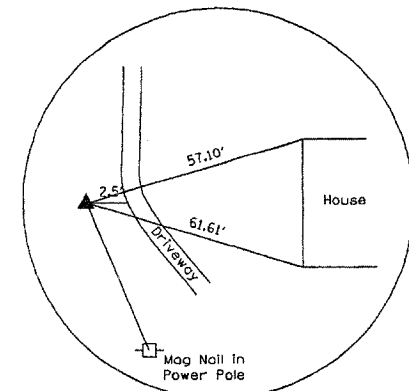
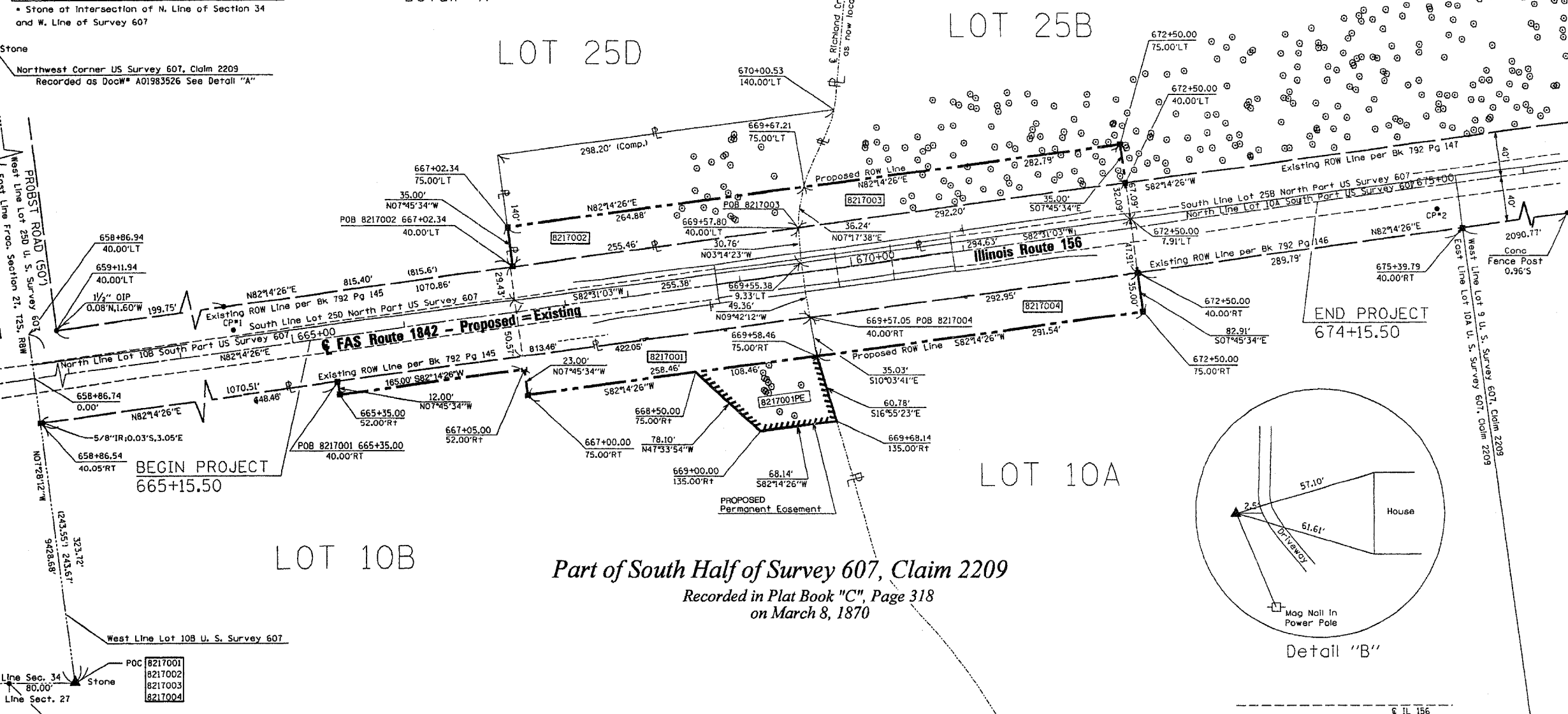
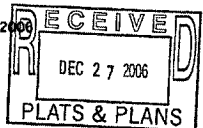
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY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

STATE OF ILLINOIS)
COUNTY OF ST. CLAIR) 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 PARCELS TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

TERRY J. FELDMANN, PLS. NO. 2973
LICENSE EXPIRATION DATE: 11/30/2008



Detail "B"

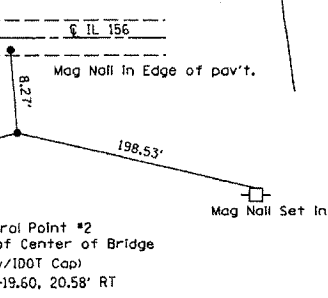
Part of South Half of Survey 607, Claim 2209

Recorded in Plat Book "C", Page 318 on March 8, 1870

See Sheet 3 for Total Holding Sketch

Notes: Total Holding Area for Parcel 8217001 taken from Tax Maps

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				EASEMENTS				PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY	
			GROSS ACRES	SO. FT.	PREVIOUSLY DEDICATED ACRES	SO. FT.	NET ACRES	SO. FT.	REMAINDER ACRES	SO. FT.			PERMANENT ACRES
8217001	Hugh S. Wacker & Kay R. Wacker, husband and wife, as tenants by the entirety Title Report SC-5005.0	97.22	0.2526	11,001	N/A	N/A	0.2526	11,001	96.9674	0.1216	5,298	17-34-0-200-010	
8217002	Clarence Rausch, Rollin Rausch and Marie Kunz each as to an undivided 1/4 interest and Roselle Neff and Jeroldine Rausch Dashner each as to an undivided 1/8 interest SC-5112.0	0.6355	0.2090	9,106	N/A	N/A	0.2090	9,106	0.4265	0.00	0.00	17-27-0-400-015(p)	
8217003	Ethel M. Kreher, Trustee of the Ethel M. Kreher Trust & Bertram C. Kreher, Trustee of the Bertram C. Kreher Trust Title Report SC-5004.0	151.58	0.4424	19,270	0.2114	9,208	0.2310	10,062	151.1376	0.00	0.00	17-27-0-400-016(p)	
8217004	Lawrence Schaefer, Theresia Schaefer, and Theresia Schaefer Lawrence Schaefer and Paul Schaefer Co-Trustees Title Report SC-5006.0	164.0	0.5627	24,512	0.3279	14,283	0.2348	10,229	163.4373	0.00	0.00	17-34-0-200-009(p)	



COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: FEB. 7, 2006
RIGHT OF WAY STAKING: MARCH 15, 2006

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAS ROUTE 1842 (IL 156)
SECTION 106 BR
ST. CLAIR COUNTY
JOB NO. R-98-017-02

STATION 665+00 TO STATION 675+00

SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

SHEET 2 OF 3
SHEET 1 IS A COVER SHEET

PLOT DATE: DATE-TIME

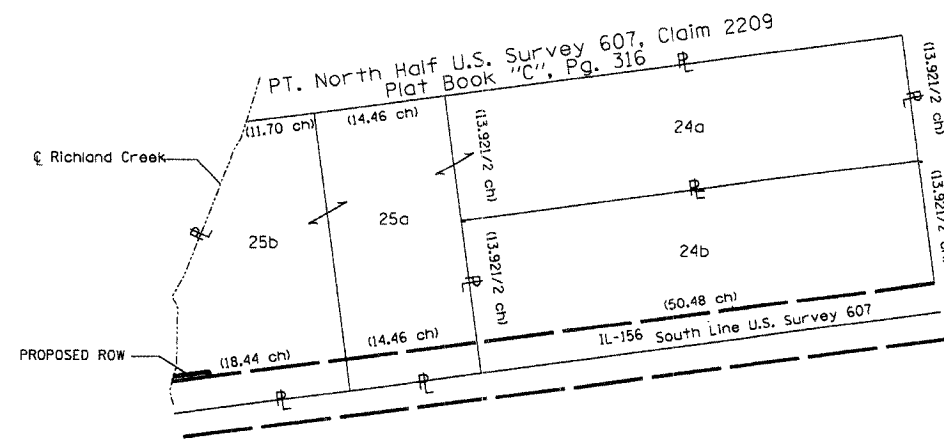
TOTAL HOLDING SKETCHES

SECTION	COUNTY	TOWNSHIP	RANGE
ST. CLAIR			
ST. CLAIR			
TO STA.			

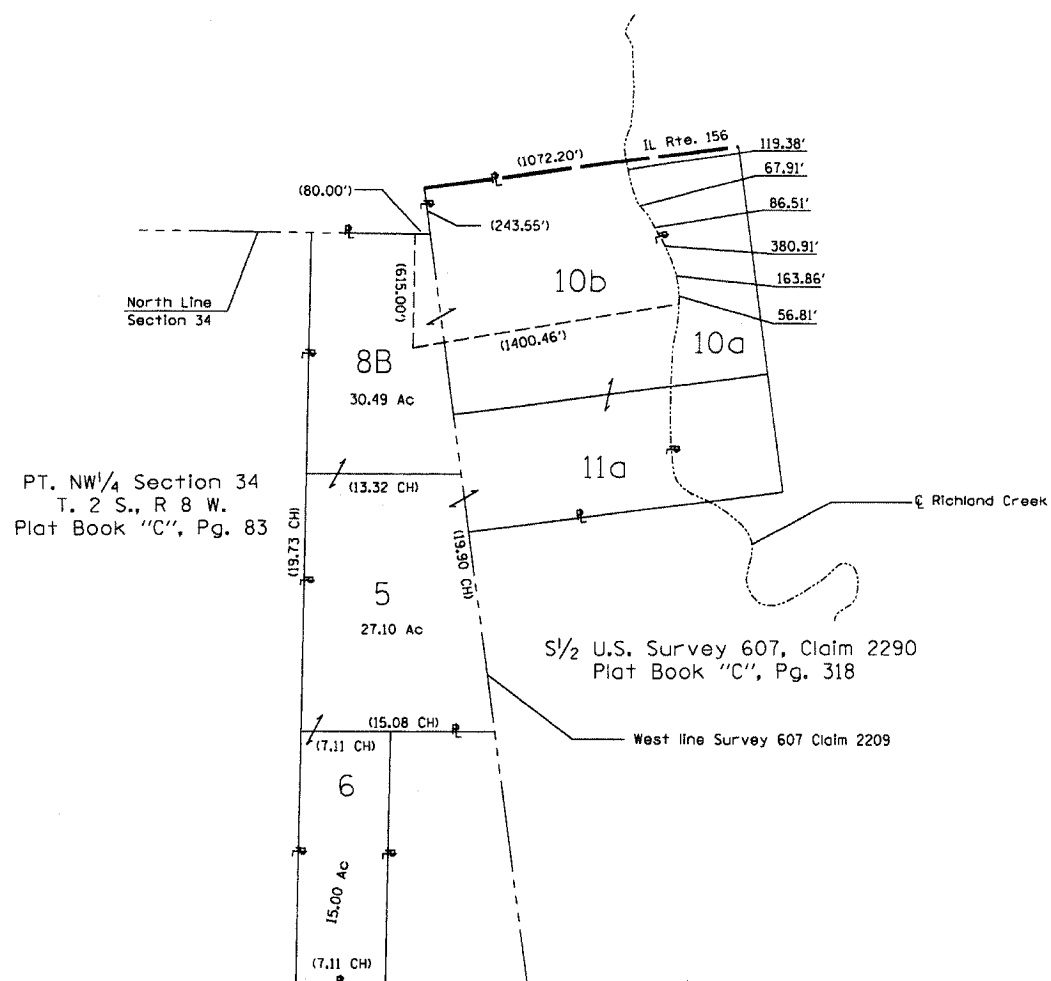


LEGEND

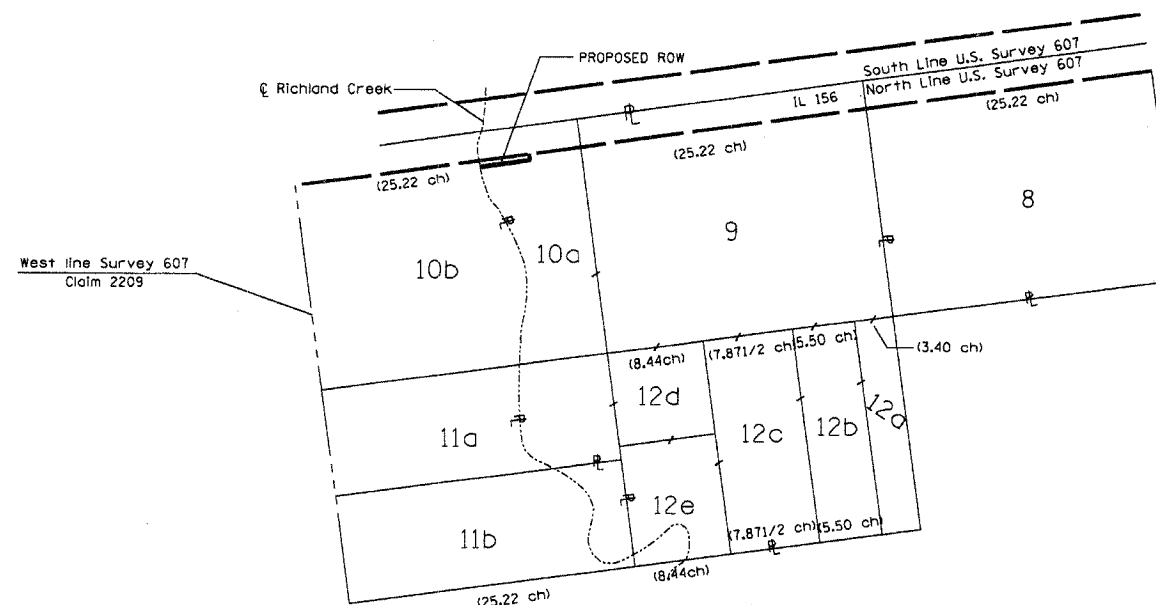
- SECTION CORNER
- QUARTER SECTION CORNER
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 1/4 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



TOTAL HOLDING SKETCH
PARCEL 8217003



TOTAL HOLDING SKETCH
PARCEL 8217001



TOTAL HOLDING SKETCH
PARCEL 8217004

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAS ROUTE 1842 (IL156)
 SECTION 106 BR
 ST. CLAIR COUNTY
 JOB NO. R-98-017-02

TOTAL HOLDING SKETCHES
 50' 0 50' 100'
 SCALE 1" = 50' SHEET 3 OF 3

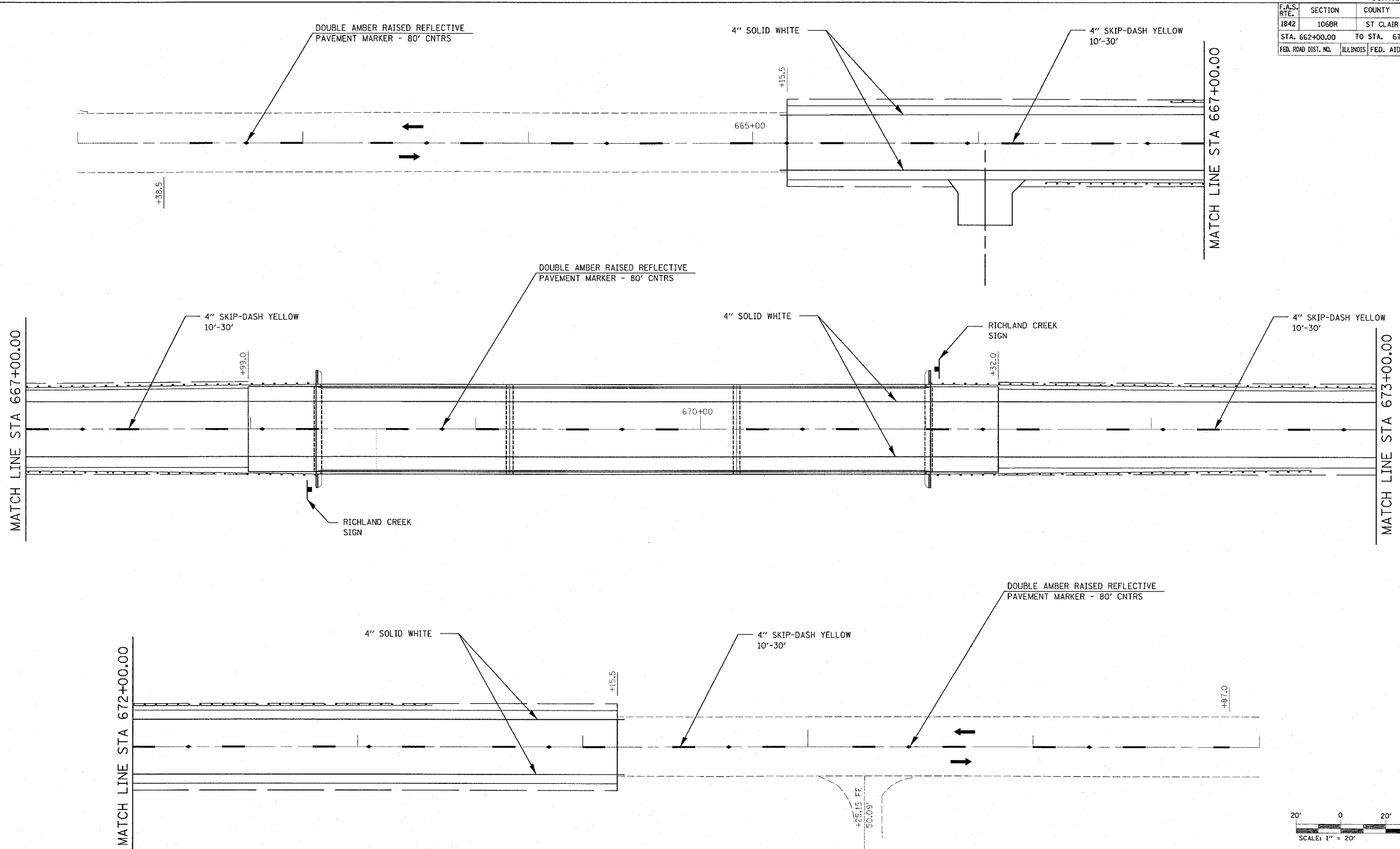
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

NO.	DATE	DESCRIPTION	BY

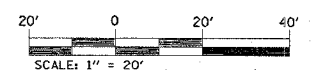
COR-SPEC
 PREP-
 DATE-
 REF-
 REF-

PLOT DATE: *DATE-TIME*

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	19
STA. 662+00.00		TO STA. 675+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 12/15/2006
 FILE NAME = c:\pavproj\1842\106br\p19\p19.dgn
 PLOT SCALE = 1" = 20'
 REFERENCE = SHEET



REVISIONS	
NAME	DATE

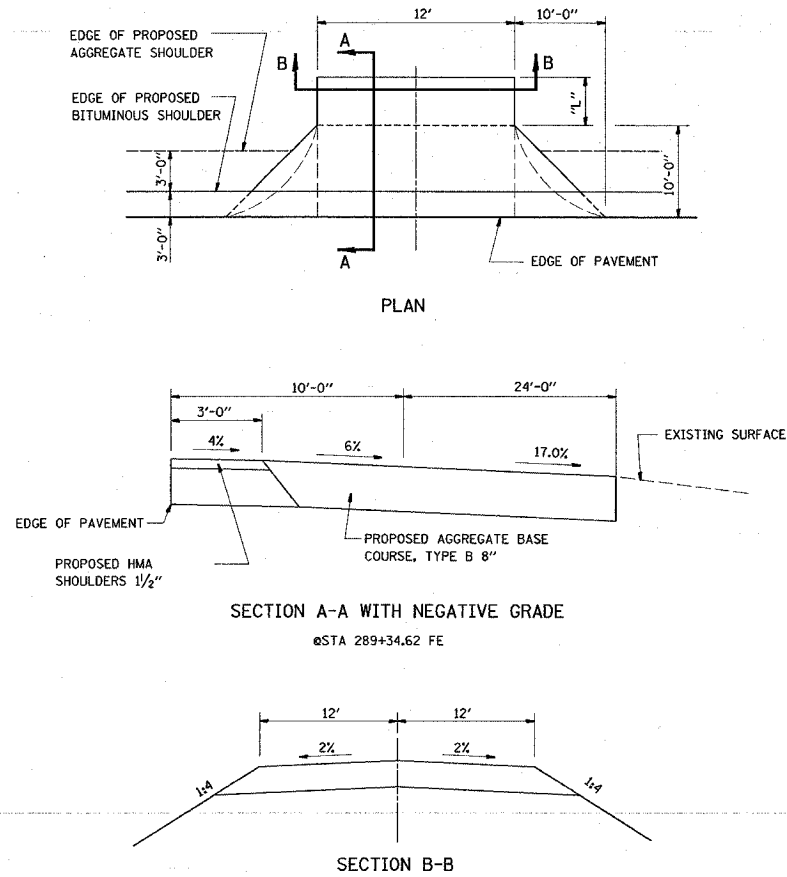
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING DETAILS
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

SCALE: VERT. DATE
 HORIZ. DATE

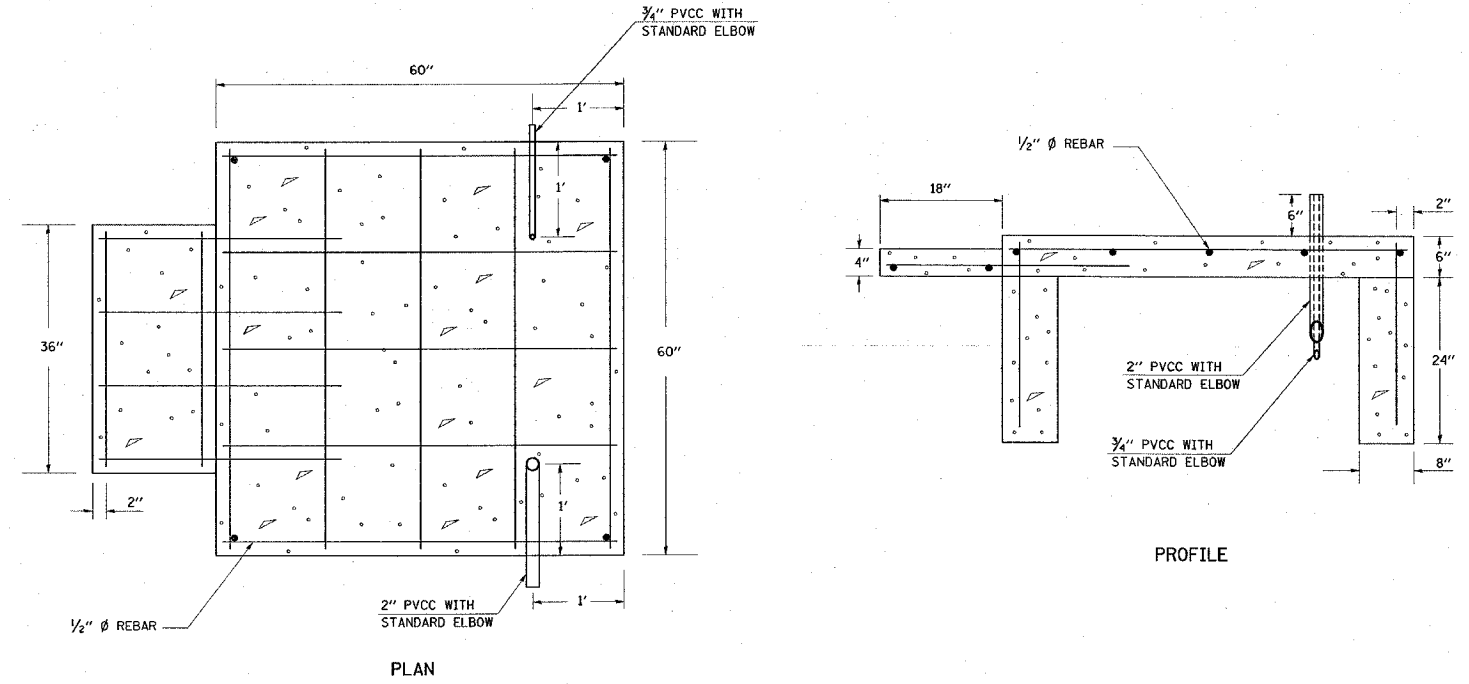
DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

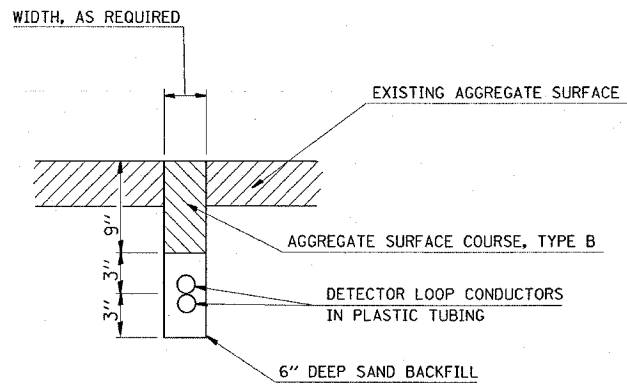
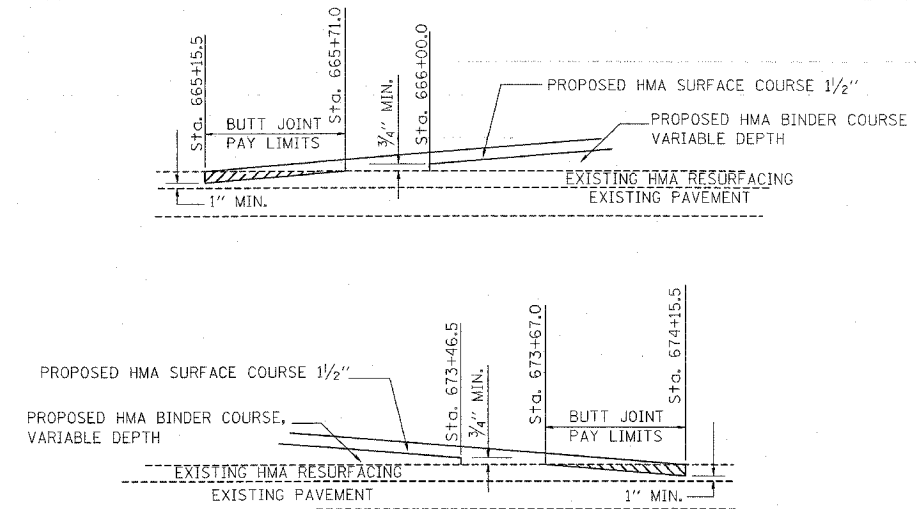
DETAIL OF FIELD ENTRANCES
W/ BITUMINOUS SHOULDERS



CONCRETE PAD FOR STREAM MEASUREMENT STATION
(AS PROVIDED BY USGS)



BUTT JOINT DETAILS



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.

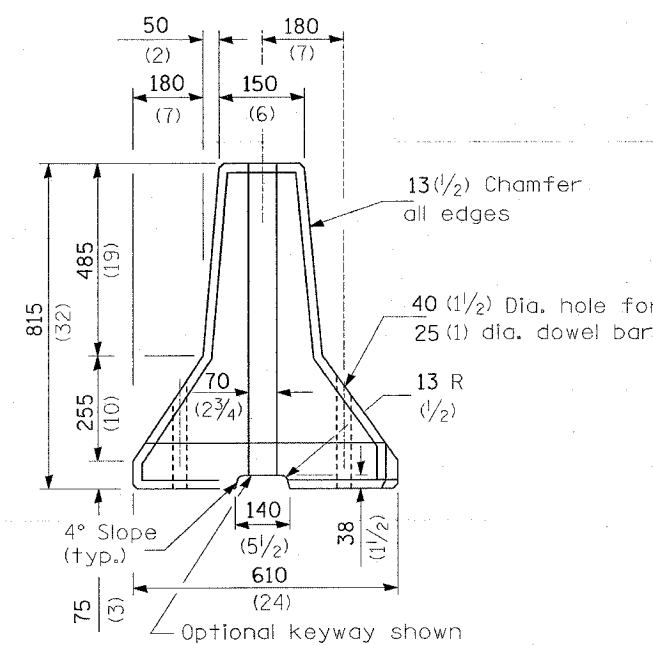
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS SHEET
FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

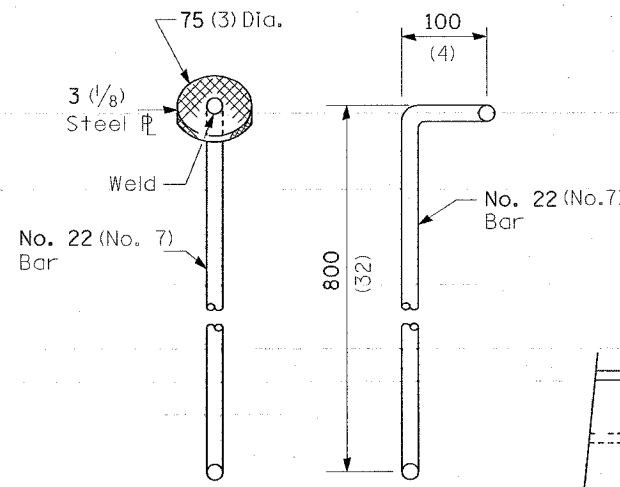
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

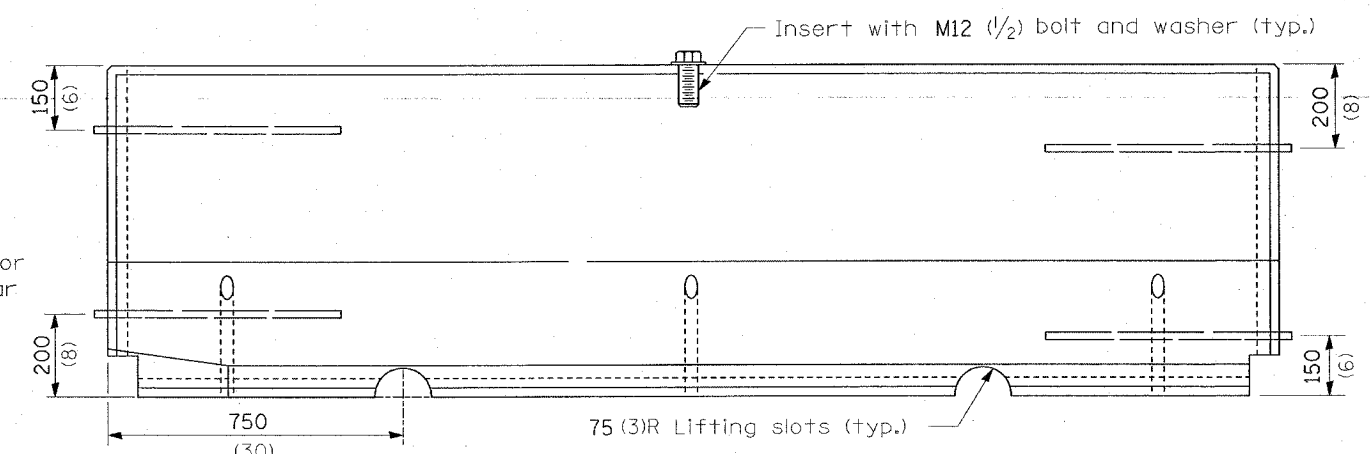
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



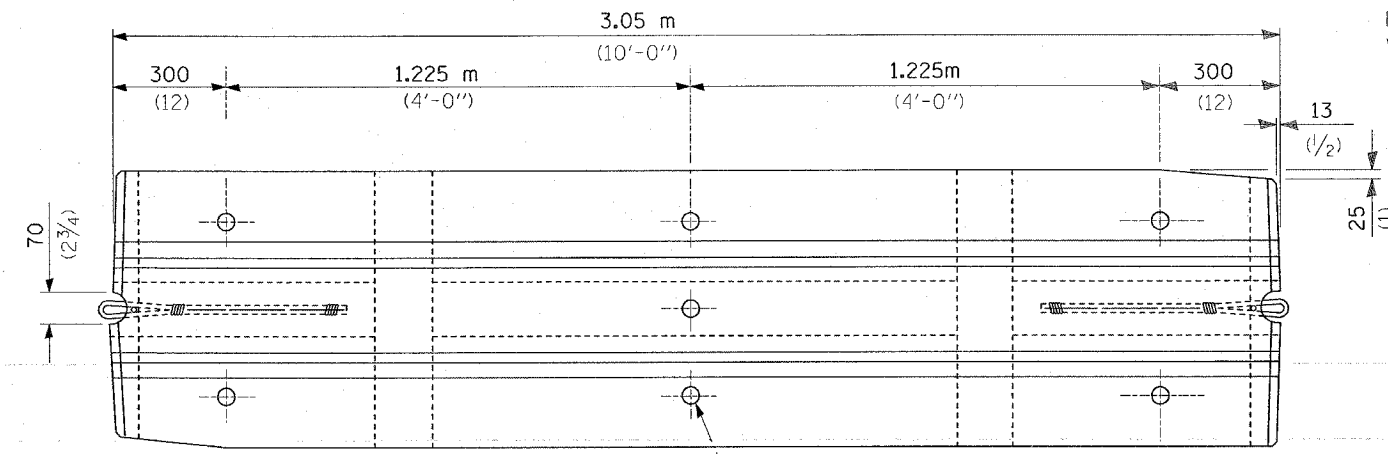
END VIEW
(without wire rope loops)



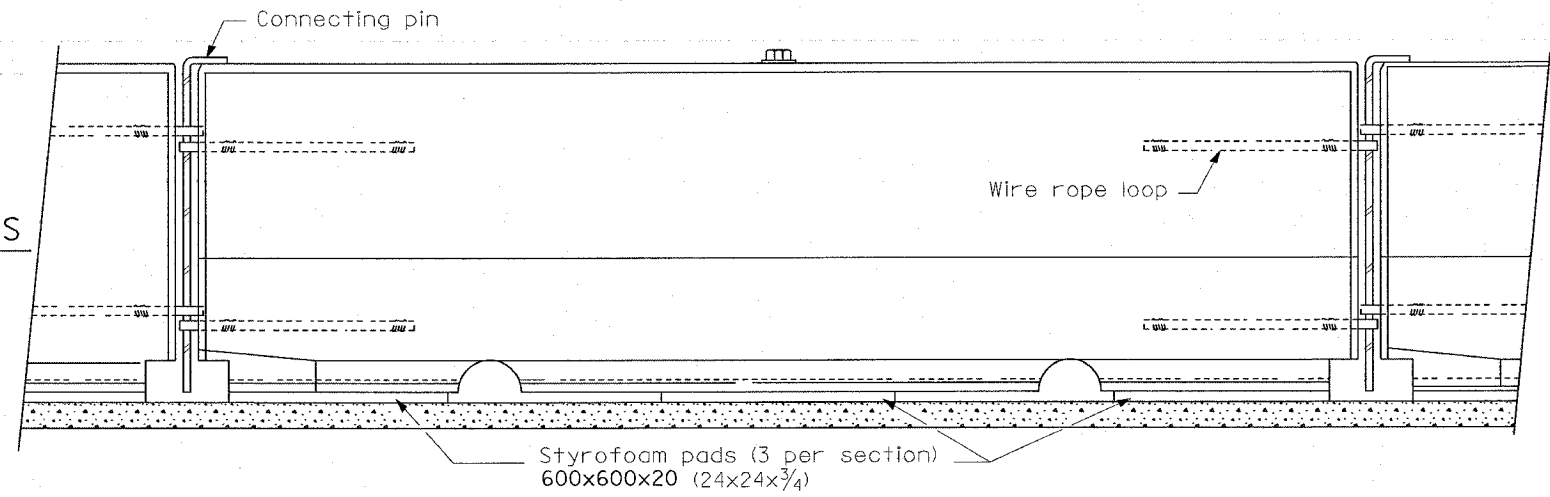
ALTERNATE CONNECTING PINS



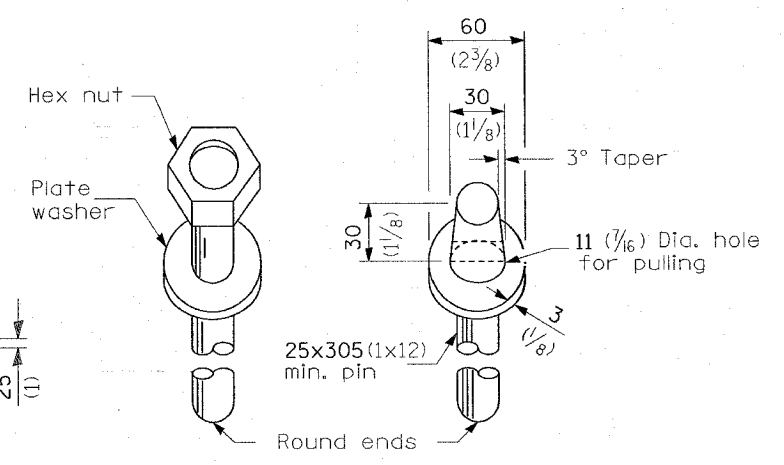
ELEVATION



PLAN



TYPICAL INSTALLATION WITH STYROFOAM PADS



DOWEL BARS

NOTES:
New Jersey (NJ) shape barrier shall not be produced after October 1, 2002. However, New Jersey shape barrier produced prior to October 1, 2002 may be used until January 1, 2008.

The NJ shape barrier units shall be seated on styrofoam pads except when they are anchored.

NJ shape dowel bars shall be embedded at least 200 (8) into the pavement, and shall not project above the outer surface of the barrier. The connecting pin for the NJ shape pin and loop connection, may be either a plain 22 (7/8) diameter or a deformed No. 22 (No. 7) bar meeting the requirements of Article 1006.10(b) except Grade 400 (Grade 60) bars shall be used.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER
NJ SHAPE DESIGN
FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

PLOT DATE = 12/11/2005
FILE NAME = c:\projects\ref\1198\plan\ref\1198a.dgn
PLOT SCALE = 50.0000 / IN.
REFERENCE = #REF#

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract No. 76129

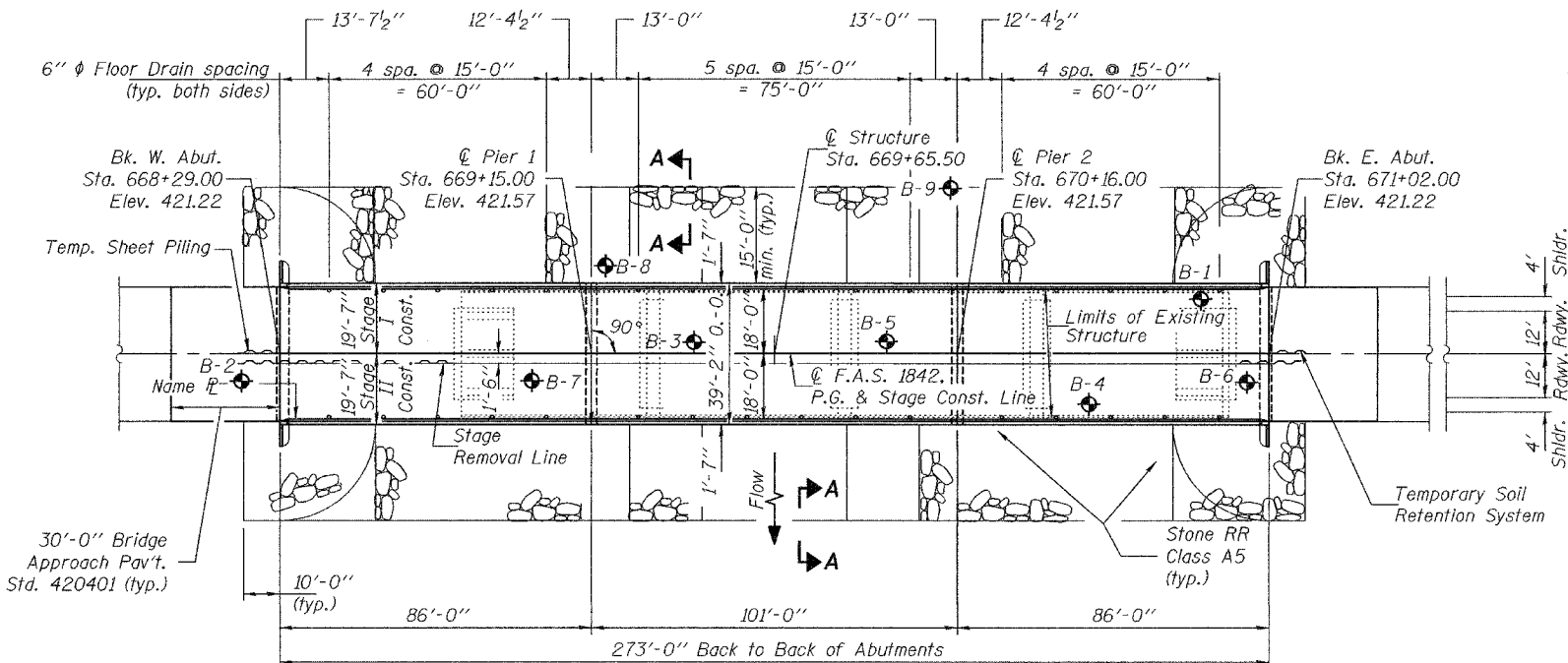
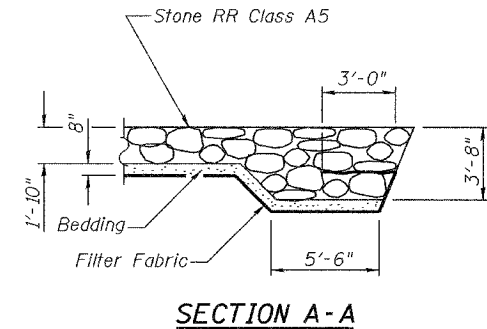
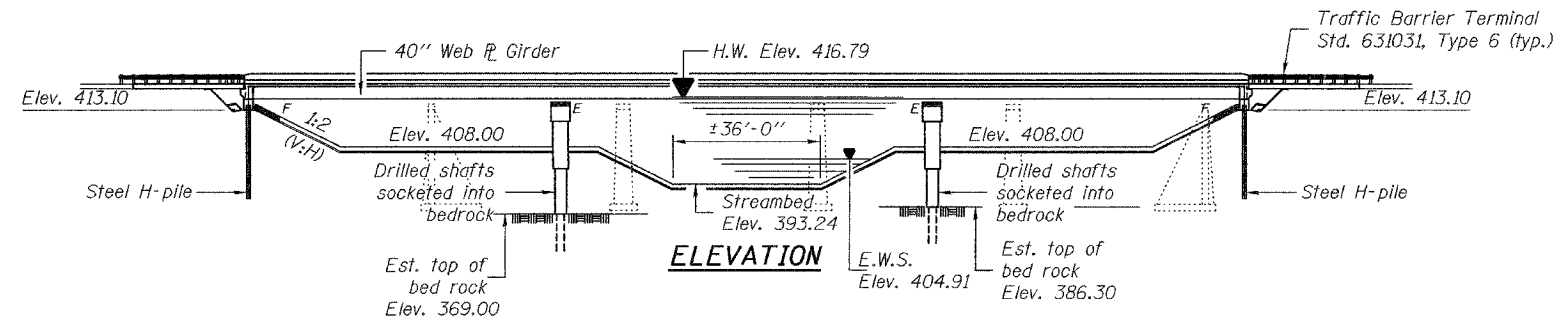
Bench Mark: Chiseled "□" N.W. corner of concrete slab for gaging station, Elev. 416.656

Existing Structure: S.N. 082-0089; Built in 1933 as S.B.I. Route 156, Section 106-B. Existing structure is a 4-span reinforced concrete T-beam superstructure on closed abutments and solid wall piers keyed into bedrock. The structure is 211'-10⁵/₈" Bk. to Bk. abuts. The structure was widened in 1971 with 2 additional PPC-deck beams on each side to its current width of 35'-0" O. to O. of deck. Traffic to be maintained utilizing stage construction.

No salvage

STATION 669+65.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE 1842 SEC. 106BR
LOADING HS20
STR. NO. 082-0387

NAME PLATE
See Std. 515001



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structure	Each			1
Concrete Superstructure	Cu. Yd.	348.5		348.5
Concrete Structures	Cu. Yd.		147.4	147.4
Reinforcement Bars, Epoxy Coated	Pound	81,790	74,570	156,360
Furnishing and Erecting Structural Steel	L. Sum			1
Name Plates	Each	1		1
Bar Splicers	Each	922	70	992
Stud Shear Connectors	Each	3618		3618
Drilled Shaft in Soil	Cu. Yd.		83.8	83.8
Drilled Shaft in Rock	Cu. Yd.		28.3	28.3
Elastomeric Bearing Assembly Type I	Each	12		12
Temporary Sheet Piling	Sq. Ft.		1155	1155
Structure Excavation	Cu. Yd.		208	208
Porous Granular Embankment (Special)	Cu. Yd.		156	156
Bridge Deck Grooving	Sq. Yd.	1031		1031
Protective Coat	Sq. Yd.	1321		1321
Floor Drains	Each	32		32
Underwater Structure Excavation Protection, Location 1	Each		1	1
Underwater Structure Excavation Protection, Location 2	Each		1	1
Stone Riprap, Class A5	Sq. Yd.		1660	1660
Filter Fabric	Sq. Yd.		1660	1660
Furnishing Steel Piles HPI2x53	Foot		425	425
Driving Piles	Foot		425	425
Temporary Soil Retention System	Sq. Ft.		137	137
Pipe Underdrains for Structures, 4"	Foot		149	149
Geocomposite Wall Drain	Sq. Yd.		73	73
Test Pile Steel HPI2x53	Each		2	2
Mechanical Splice	Each		88	88
Asbestos Bearing Pad Removal	Each	32		32
Anchor Bolts, 1" φ	Each	24		24
Anchor Bolts, 1/2" φ	Each	24		24

INDEX OF SHEETS

1. General Plan
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier
- 5.-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.-15. Abutments
- 16.-17. Piers
18. Bar Splicer Assembly Details
- 19.-22. Boring Logs

LOADING HS20-44

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

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, 2000 & 2002 Interims

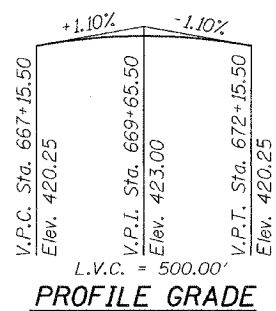
DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f_y = 60,000$ psi (reinforcement)
- $f_y = 50,000$ psi (AASHTO M270 Grade 50)
- $f_y = 36,000$ psi (AASHTO M270 Grade 36)

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 12.0%
Site Coefficient (S) = 1.5



DESIGNED	Jennifer B. Kramer
CHECKED	Thomas J. Marshall
DRAWN	BMC AMBER SEIBER
CHECKED	RTM

January 24, 2007
EXAMINED Thomas J. Marshall
PASSED Ralph E. Anderson
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

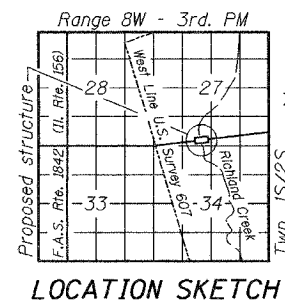


EXPIRES 11-30-2008

Existing Low Grade Elev. 419 ft. @ Sta. 676+84
Drainage Area = 129.4 sq. mi Proposed Low Grade Elev. 419 ft. @ Sta. 676+84

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.	Exist.	Prop.
Design	10	10900	1733	2623	417.2	1.4	0.3	418.6	417.5
Base	100	17800	1733	2831	418.4	2.9	1.1	420.6	418.9
Ex. Overtop	15	11600	1733	-	417.3	1.7	-	419.0	-
Pr. Overtop	55	16000	-	2779	417.8	-	1.2	-	419.0

10 year velocity through Exist. Bridge = 6.3 fps 10 year velocity through Prop. Bridge = 4.2 fps



GENERAL PLAN
ILLINOIS ROUTE 156 OVER
RICHLAND CREEK
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA.	SHEET NO.	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	23	22 SHEETS
FED. ROAD DIST. NO. 7	S.LINER	FED. AID PROJECT			

Contract No. 76129

GENERAL NOTES

Fasteners shall be AASHTO M164 high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 268,830 pounds (AASHTO M270 Gr. 50)
= 24,430 pounds (AASHTO M270 Gr. 36)

Reinforcement bars shall conform to the requirements of IL Modified ASTM A706 Grade 60.

No field welding is permitted except as specified in the contract documents.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ " (0.01 ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.

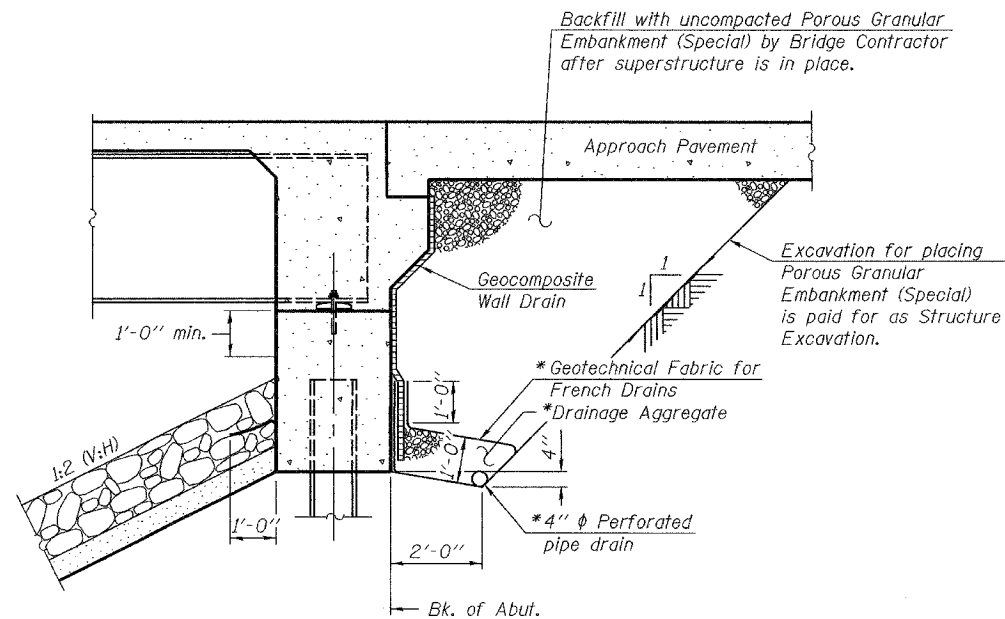
The inorganic zinc rich primer/Acrylic/Acrylic Paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the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

The Structural Steel Bearing Plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

Reinforcement bars designated (E) shall be epoxy coated.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

In addition to all other requirements of Section 512 of the Standard Specifications, splices for HP12x53 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.



SECTION THRU INTEGRAL ABUTMENT

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

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).

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMC AMBER SEIBER
CHECKED	RLM

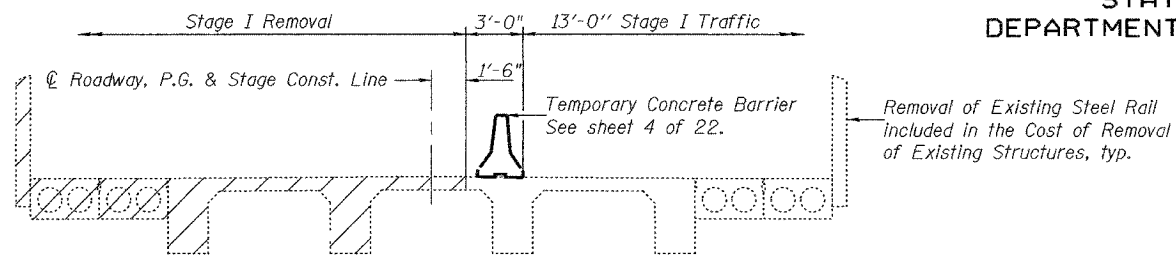
January 23, 2007
EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL DATA
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

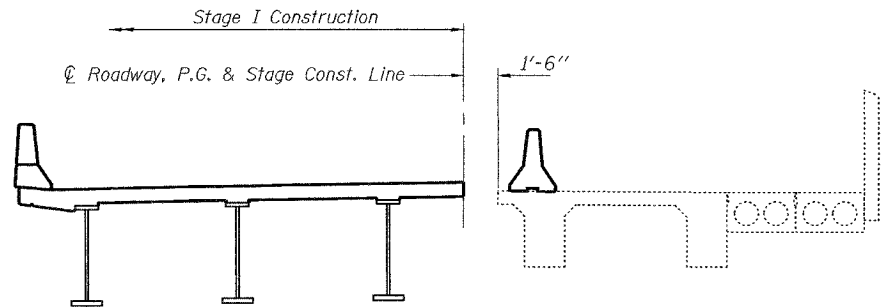
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	24
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

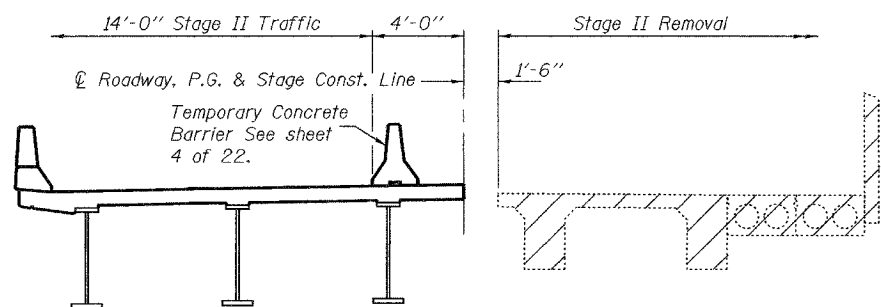
Contract No. 76129



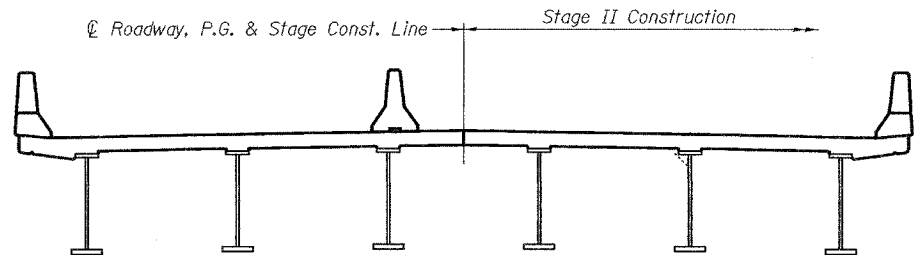
STAGE I REMOVAL



STAGE I CONSTRUCTION

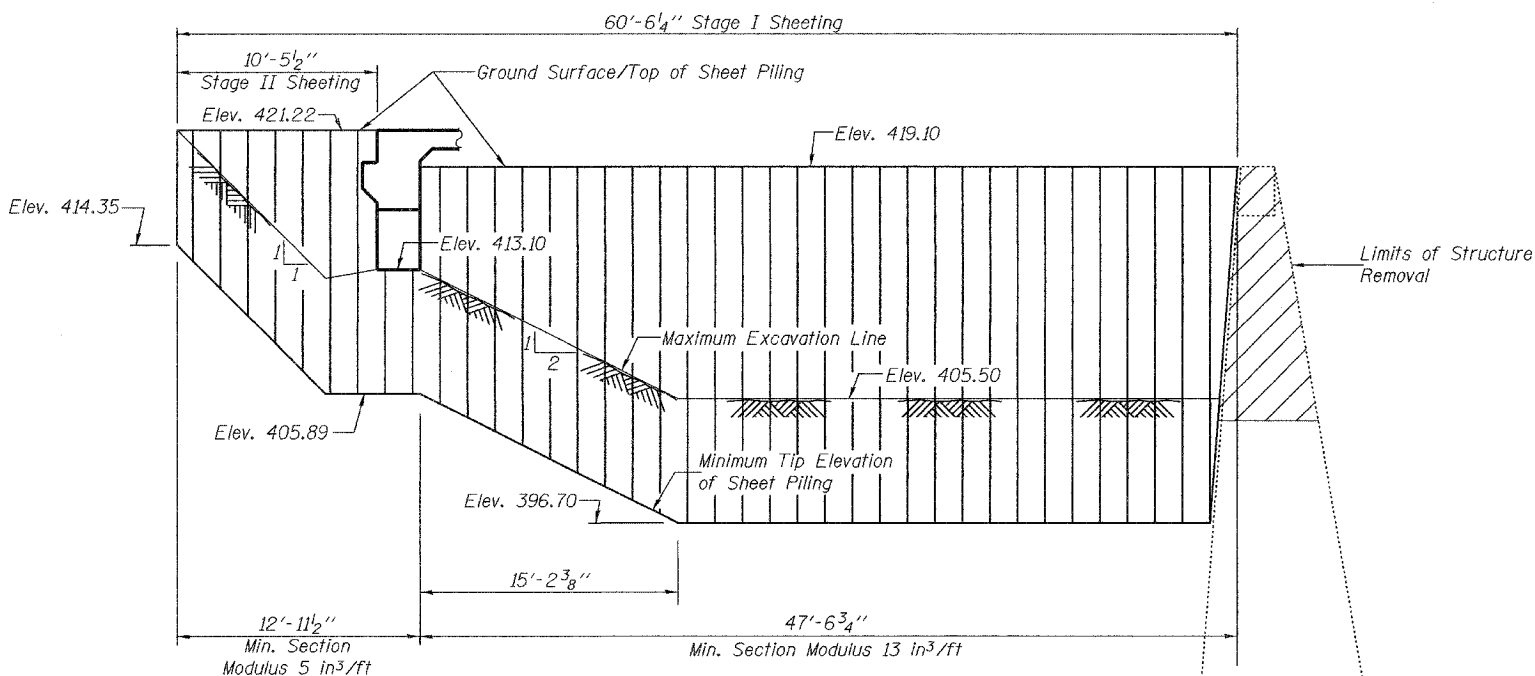


STAGE II REMOVAL

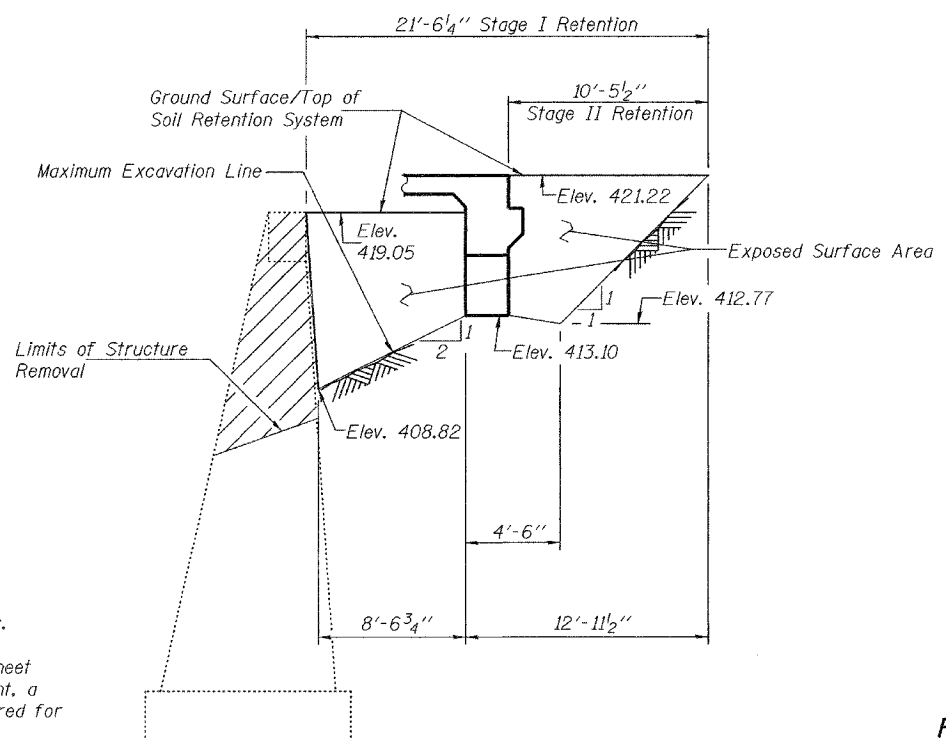


STAGE II CONSTRUCTION

Notes:
 Hatched area indicates Removal of Existing Structures.
 For quantity of Temporary Concrete Barriers, see Roadway Plans.
 All staging sections are looking East.
 If the Contractor chooses to alter the Temporary Cantilevered Sheet Piling design requirements shown on the plans at the West Abutment, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 A Cantilevered Sheet Piling design does not appear feasible at the East Abutment 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.



TEMPORARY SHEET PILING AT WEST ABUTMENT



TEMPORARY SOIL RETENTION SYSTEM AT EAST ABUTMENT

DESIGNED	JEK
CHECKED	RLM
DRAWN	BMC AMBER SEIBER
CHECKED	RLM

January 23, 2007
 EXAMINED *Thomas J. Damgalab*
 ENGINEER OF BRIDGES DESIGN
 PASSED *Ralph E. Carlson*
 ENGINEER OF BRIDGES AND STRUCTURES

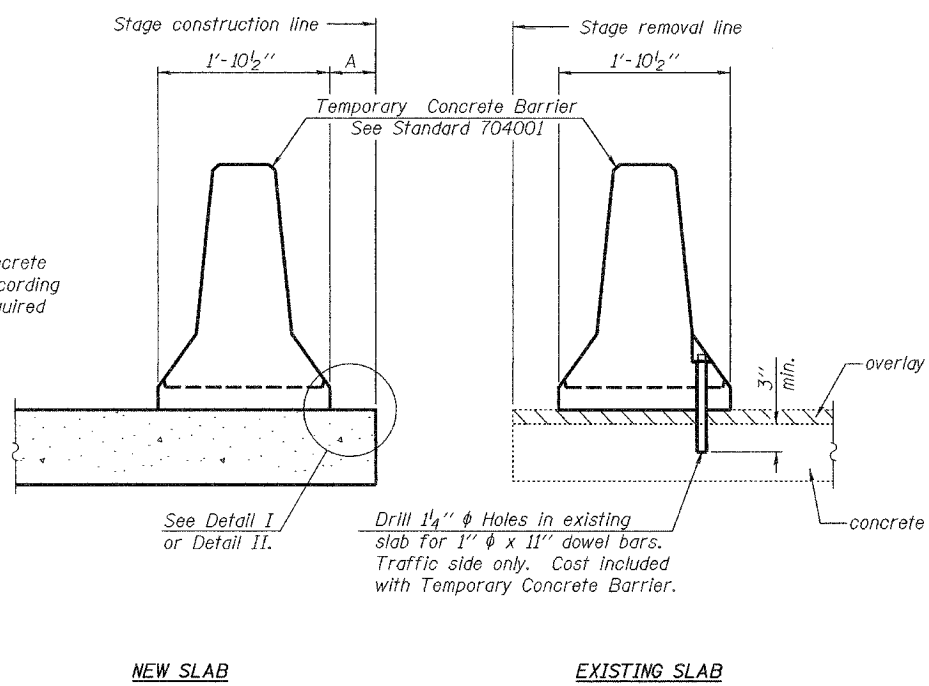
STAGE CONSTRUCTION DETAILS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	25	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

22 SHEETS

Contract No. 76129



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

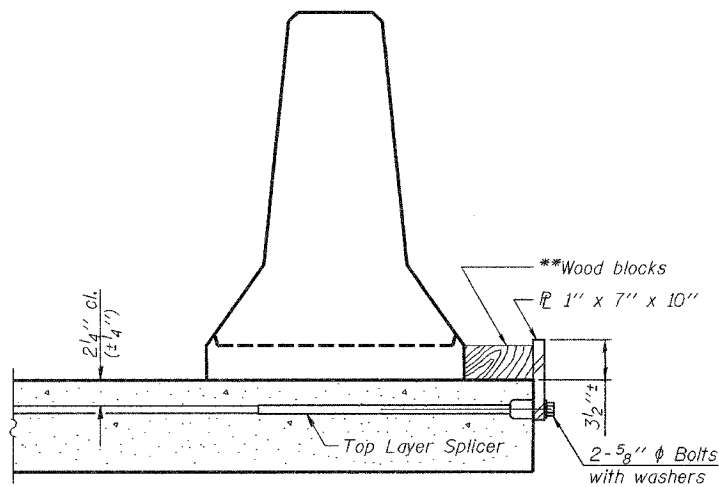
NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{r} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{c} of each barrier panel.

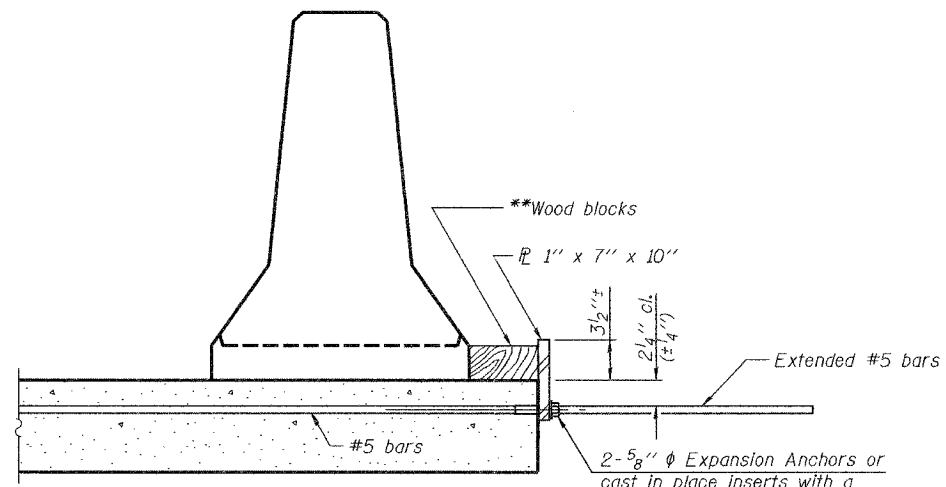
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{r} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{c} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

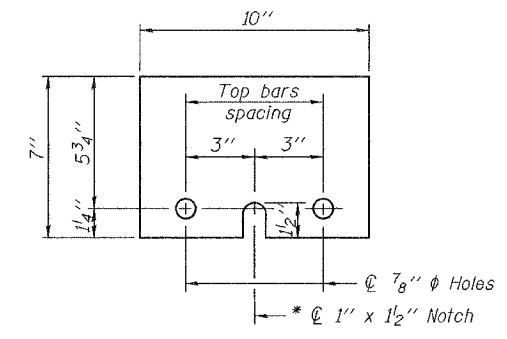
SECTIONS THRU SLAB



DETAIL I



DETAIL II



STEEL RETAINER 1" x 7" x 10"

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

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

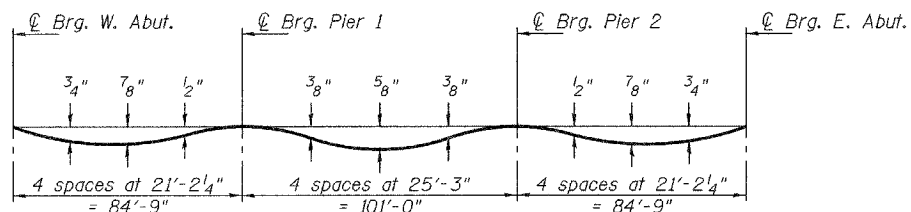
January 23, 2007
EXAMINED *Thomas J. Demagala*
PASSED *Ralph E. Anderson*

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.S. ROUTE 1842 - SEC. 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.S. 1842	SECTION 106BR	COUNTY ST. CLAIR	STATION 61	SHEET NO. 26	SHEET NO. 5 22 SHEETS
FED. ROAD DIST. NO. 7		BILLINGS	FED. AID PROJECT		

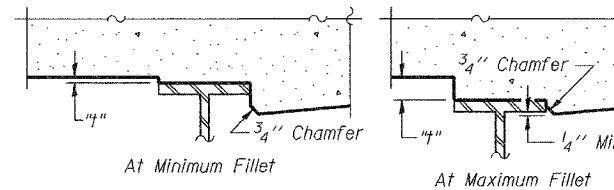
Contract No. 76129



DEAD LOAD DEFLECTION DIAGRAM

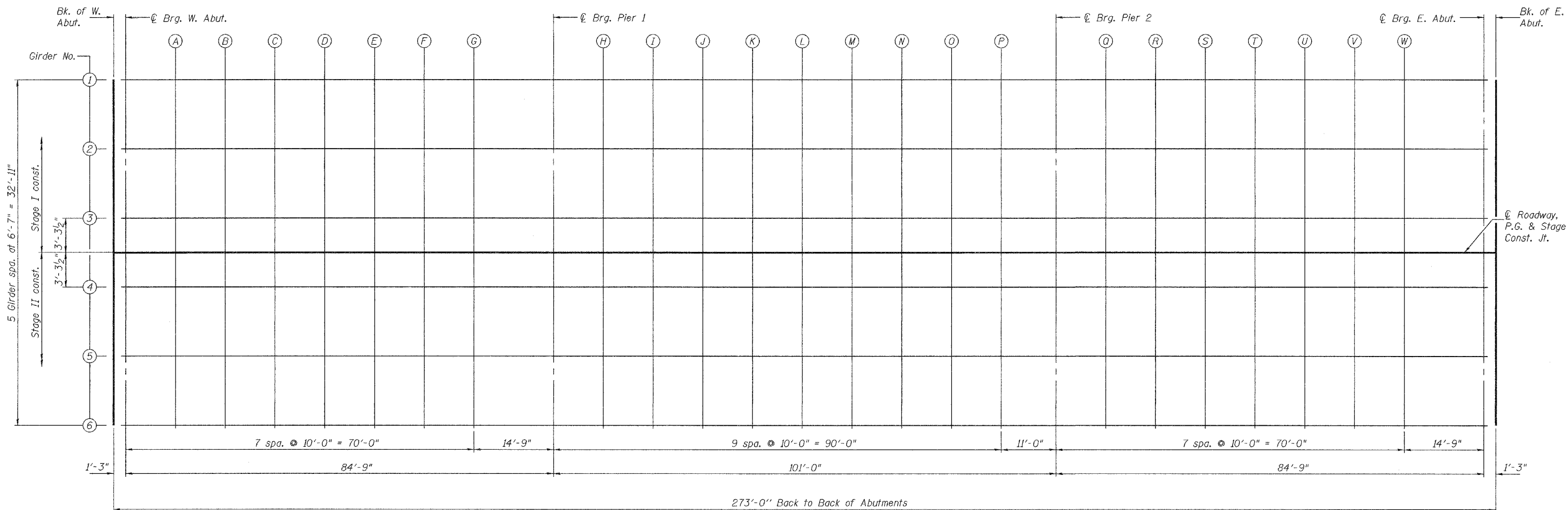
(Includes weight of concrete only.)

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 6 of 22.



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	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Domagalak*
PASSED *Ralph E. Anderson*

TOP OF SLAB ELEVATIONS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract No. 76129

SHEET NO. 6
22 SHEETS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	-16.458	420.935	420.935
€ Brg. W. Abut	66830.250	-16.458	420.942	420.942
A	66840.250	-16.458	421.000	421.031
B	66850.250	-16.458	421.115	421.115
C	66860.250	-16.458	421.101	421.171
D	66870.250	-16.458	421.145	421.221
E	66880.250	-16.458	421.185	421.247
F	66890.250	-16.458	421.264	421.264
G	66900.250	-16.458	421.251	421.277
€ Brg. Pier 1	66915.000	-16.458	421.289	421.289
H	66925.000	-16.458	421.309	421.319
I	66935.000	-16.458	421.324	421.345
J	66945.000	-16.458	421.336	421.367
K	66955.000	-16.458	421.342	421.385
L	66965.000	-16.458	421.345	421.398
M	66975.000	-16.458	421.345	421.386
N	66985.000	-16.458	421.336	421.369
O	66995.000	-16.458	421.326	421.348
P	67005.000	-16.458	421.310	421.322
€ Brg. Pier 2	67016.000	-16.458	421.289	421.289
Q	67026.000	-16.458	421.264	421.282
R	67036.000	-16.458	421.235	421.270
S	67046.000	-16.458	421.202	421.256
T	67056.000	-16.458	421.165	421.237
U	67066.000	-16.458	421.123	421.195
V	67076.000	-16.458	421.076	421.144
W	67086.000	-16.458	421.025	421.071
€ Brg. E. Abut	67100.750	-16.458	420.942	420.942
BK. E. Abut	67102.000	-16.458	420.935	420.935

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	-9.875	421.061	421.061
€ Brg. W. Abut	66830.250	-9.875	421.068	421.068
A	66840.250	-9.875	421.126	421.157
B	66850.250	-9.875	421.178	421.241
C	66860.250	-9.875	421.227	421.297
D	66870.250	-9.875	421.271	421.347
E	66880.250	-9.875	421.311	421.373
F	66890.250	-9.875	421.346	421.390
G	66900.250	-9.875	421.377	421.403
€ Brg. Pier 1	66915.000	-9.875	421.415	421.415
H	66925.000	-9.875	421.435	421.445
I	66935.000	-9.875	421.450	421.471
J	66945.000	-9.875	421.461	421.493
K	66955.000	-9.875	421.468	421.511
L	66965.000	-9.875	421.471	421.524
M	66975.000	-9.875	421.469	421.512
N	66985.000	-9.875	421.462	421.495
O	66995.000	-9.875	421.452	421.474
P	67005.000	-9.875	421.436	421.448
€ Brg. Pier 2	67016.000	-9.875	421.415	421.415
Q	67026.000	-9.875	421.390	421.407
R	67036.000	-9.875	421.361	421.396
S	67046.000	-9.875	421.328	421.381
T	67056.000	-9.875	421.291	421.363
U	67066.000	-9.875	421.248	421.321
V	67076.000	-9.875	421.202	421.270
W	67086.000	-9.875	421.151	421.197
€ Brg. E. Abut	67100.750	-9.875	421.068	421.068
BK. E. Abut	67102.000	-9.875	421.061	421.061

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	-3.292	421.164	421.164
€ Brg. W. Abut	66830.250	-3.292	421.171	421.171
A	66840.250	-3.292	421.228	421.260
B	66850.250	-3.292	421.281	421.343
C	66860.250	-3.292	421.330	421.400
D	66870.250	-3.292	421.374	421.449
E	66880.250	-3.292	421.414	421.476
F	66890.250	-3.292	421.449	421.492
G	66900.250	-3.292	421.480	421.505
€ Brg. Pier 1	66915.000	-3.292	421.517	421.517
H	66925.000	-3.292	421.537	421.548
I	66935.000	-3.292	421.553	421.574
J	66945.000	-3.292	421.564	421.596
K	66955.000	-3.292	421.571	421.613
L	66965.000	-3.292	421.574	421.626
M	66975.000	-3.292	421.572	421.615
N	66985.000	-3.292	421.565	421.598
O	66995.000	-3.292	421.554	421.577
P	67005.000	-3.292	421.539	421.551
€ Brg. Pier 2	67016.000	-3.292	421.517	421.517
Q	67026.000	-3.292	421.493	421.510
R	67036.000	-3.292	421.464	421.499
S	67046.000	-3.292	421.431	421.484
T	67056.000	-3.292	421.393	421.466
U	67066.000	-3.292	421.351	421.424
V	67076.000	-3.292	421.305	421.373
W	67086.000	-3.292	421.254	421.300
€ Brg. E. Abut	67100.750	-3.292	421.171	421.171
BK. E. Abut	67102.000	-3.292	421.164	421.164

€ ROADWAY, P.G. & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	0.000	421.215	421.215
€ Brg. W. Abut	66830.250	0.000	421.223	421.223
A	66840.250	0.000	421.280	421.311
B	66850.250	0.000	421.343	421.395
C	66860.250	0.000	421.381	421.452
D	66870.250	0.000	421.425	421.501
E	66880.250	0.000	421.465	421.527
F	66890.250	0.000	421.500	421.544
G	66900.250	0.000	421.531	421.557
€ Brg. Pier 1	66915.000	0.000	421.569	421.569
H	66925.000	0.000	421.589	421.599
I	66935.000	0.000	421.605	421.626
J	66945.000	0.000	421.616	421.647
K	66955.000	0.000	421.623	421.665
L	66965.000	0.000	421.625	421.678
M	66975.000	0.000	421.615	421.666
N	66985.000	0.000	421.617	421.649
O	66995.000	0.000	421.606	421.628
P	67005.000	0.000	421.591	421.602
€ Brg. Pier 2	67016.000	0.000	421.569	421.569
Q	67026.000	0.000	421.544	421.562
R	67036.000	0.000	421.516	421.550
S	67046.000	0.000	421.482	421.536
T	67056.000	0.000	421.445	421.517
U	67066.000	0.000	421.403	421.476
V	67076.000	0.000	421.356	421.424
W	67086.000	0.000	421.306	421.351
€ Brg. E. Abut	67100.750	0.000	421.223	421.223
BK. E. Abut	67102.000	0.000	421.215	421.215

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	3.292	421.164	421.164
€ Brg. W. Abut	66830.250	3.292	421.171	421.171
A	66840.250	3.292	421.228	421.260
B	66850.250	3.292	421.281	421.343
C	66860.250	3.292	421.330	421.400
D	66870.250	3.292	421.374	421.449
E	66880.250	3.292	421.414	421.476
F	66890.250	3.292	421.449	421.492
G	66900.250	3.292	421.480	421.505
€ Brg. Pier 1	66915.000	3.292	421.517	421.517
H	66925.000	3.292	421.537	421.548
I	66935.000	3.292	421.553	421.574
J	66945.000	3.292	421.564	421.596
K	66955.000	3.292	421.571	421.613
L	66965.000	3.292	421.574	421.626
M	66975.000	3.292	421.572	421.615
N	66985.000	3.292	421.565	421.598
O	66995.000	3.292	421.554	421.577
P	67005.000	3.292	421.539	421.551
€ Brg. Pier 2	67016.000	3.292	421.517	421.517
Q	67026.000	3.292	421.493	421.510
R	67036.000	3.292	421.464	421.499
S	67046.000	3.292	421.431	421.484
T	67056.000	3.292	421.393	421.466
U	67066.000	3.292	421.351	421.424
V	67076.000	3.292	421.305	421.373
W	67086.000	3.292	421.254	421.300
€ Brg. E. Abut	67100.750	3.292	421.171	421.171
BK. E. Abut	67102.000	3.292	421.164	421.164

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	9.875	421.061	421.061
€ Brg. W. Abut	66830.250	9.875	421.068	421.068
A	66840.250	9.875	421.126	421.157
B	66850.250	9.875	421.178	421.241
C	66860.250	9.875	421.227	421.297
D	66870.250	9.875	421.271	421.347
E	66880.250	9.875	421.311	421.373
F	66890.250	9.875	421.346	421.390
G	66900.250	9.875	421.377	421.403
€ Brg. Pier 1	66915.000	9.875	421.415	421.415
H	66925.000	9.875	421.435	421.445
I	66935.000	9.875	421.450	421.471
J	66945.000	9.875	421.461	421.493
K	66955.000	9.875	421.468	421.511
L	66965.000	9.875	421.471	421.524
M	66975.000	9.875	421.469	421.512
N	66985.000	9.875	421.462	421.495
O	66995.000	9.875	421.452	421.474
P	67005.000	9.875	421.436	421.448
€ Brg. Pier 2	67016.000	9.875	421.415	421.415
Q	67026.000	9.875	421.390	421.407
R	67036.000	9.875	421.361	421.396
S	67046.000	9.875	421.328	421.381
T	67056.000	9.875	421.291	421.363
U	67066.000	9.875	421.248	421.321
V	67076.000	9.875	421.202	421.270
W	67086.000	9.875	421.151	421.197
€ Brg. E. Abut	67100.750	9.875	421.068	421.068
BK. E. Abut	67102.000	9.875	421.061	421.061

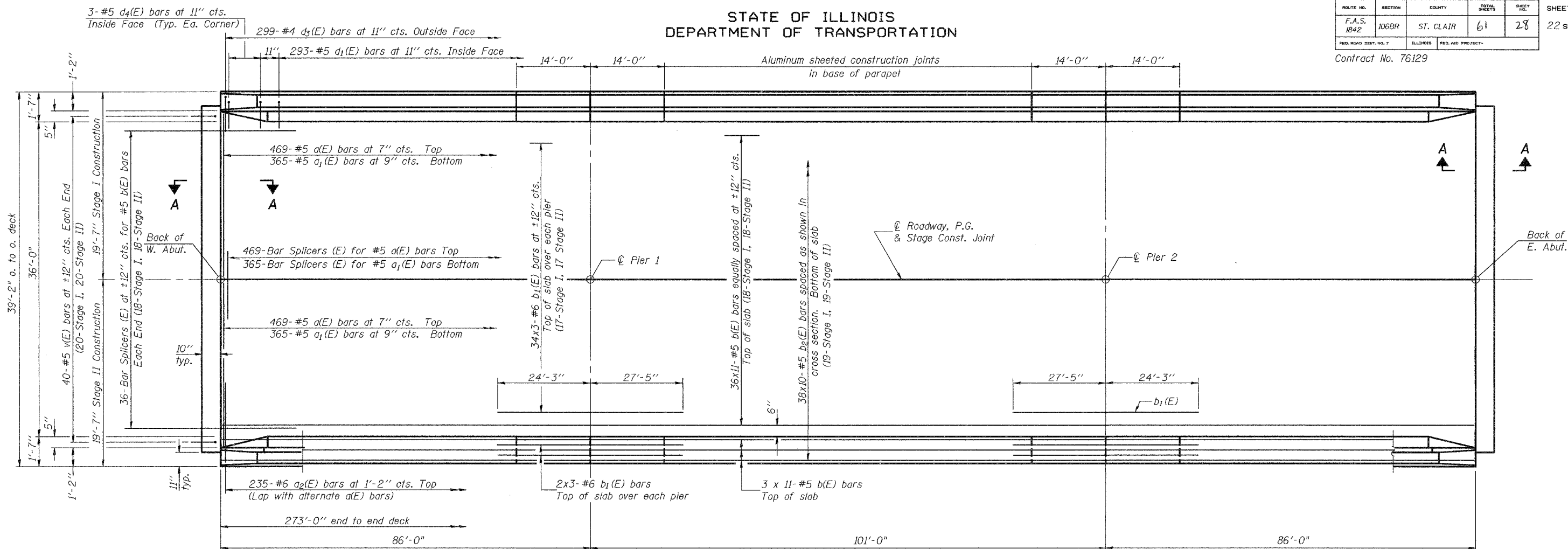
GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	66829.000	16.458	420.935	420.935
€ Brg. W. Abut	66830.250	16.458	420.942	420.942
A	66840.250	16.458	421.000	421.031
B	66850.250	16.458	421.115	421.115
C	66860.250	16.458	421.101	421.171
D	66870.250	16.458	421.145	421.221
E	66880.250	16.458	421.185	421.247
F	66890.250	16.458	421.264	421.264
G	66900.250	16.458	421.251	421.277
€ Brg. Pier 1	66915.000	16.458	421.289	421.289
H	66925.00			

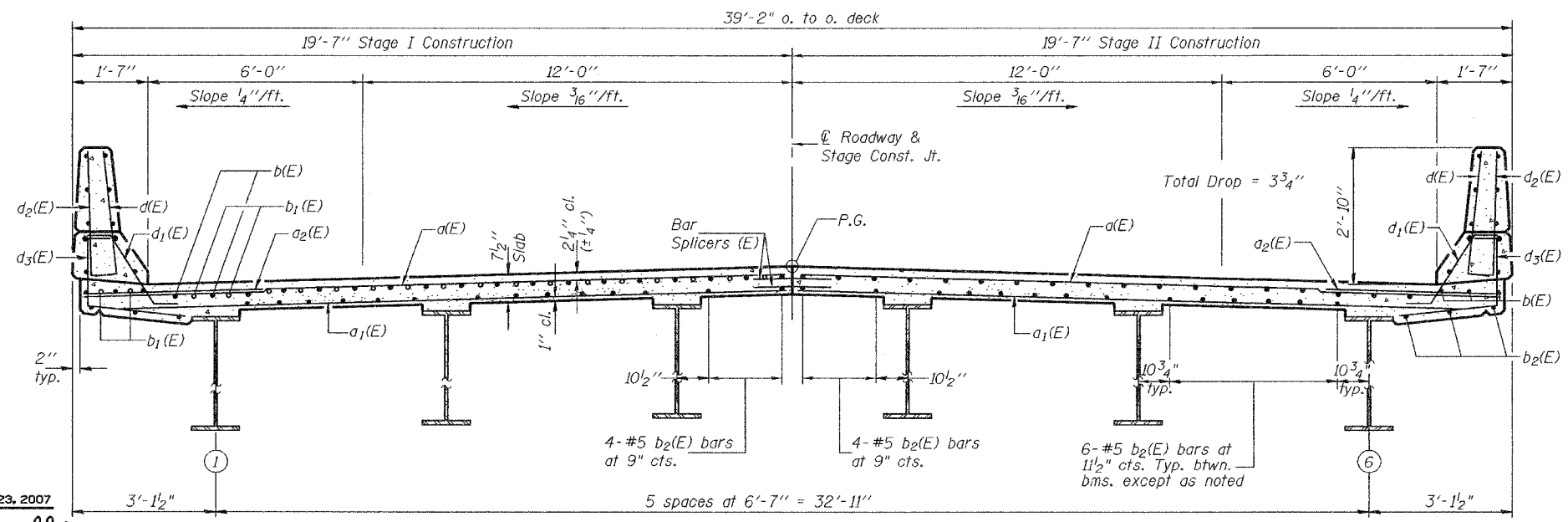
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	28	22 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 76129



PLAN



CROSS SECTION
(Looking East)

Notes:
See Sheet 8 of 22 for superstructure details, parapet reinforcement and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 18 of 22 for Bar Splicer details.
See sheet 9 of 22 for Section A-A and diaphragm details.

MIN. BAR LAP

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

SUPERSTRUCTURE
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

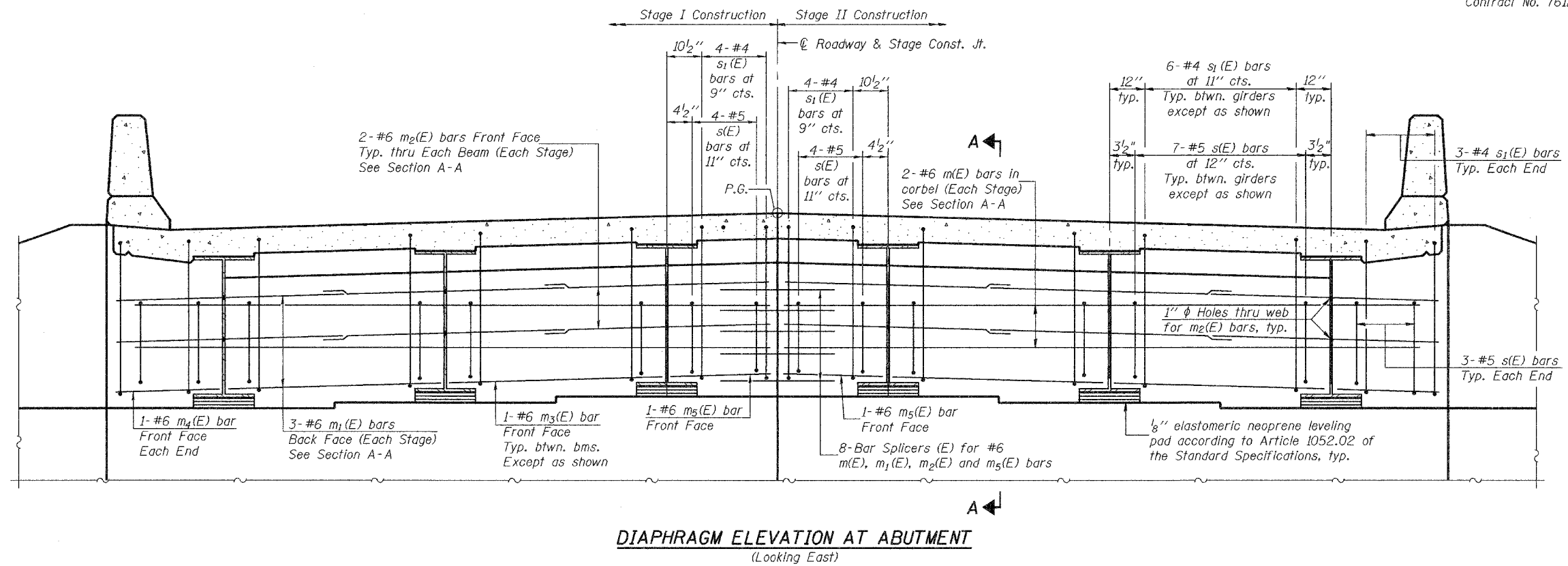
DESIGNED	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Damgalak*
PASSED *Ralph E. Anderson*

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

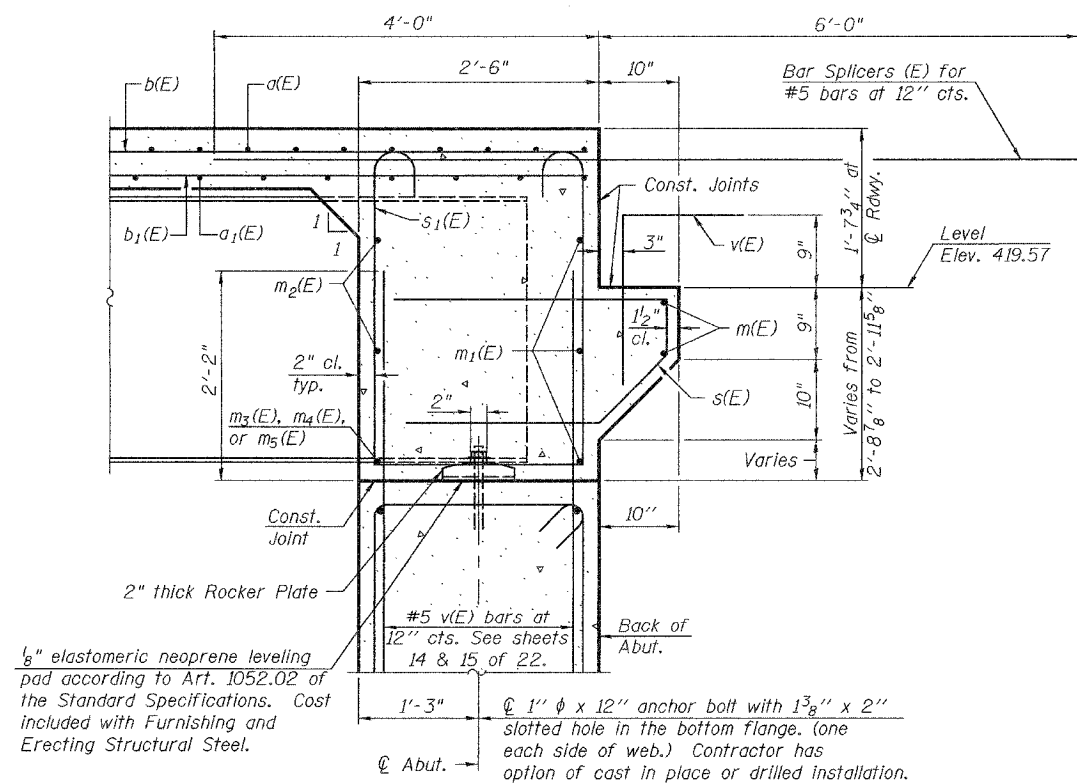
ROUTE NO. F.A.S. 1842	SECTION 106BR	COUNTY ST. CLAIR	TOTAL SHEETS 61	SHEET NO. 30	SHEET NO. 9 22 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract No. 76129



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 $s(E)$ & $s_1(E)$ see sheet 8 of 22.
See sheet 12 of 22 for holes thru web for $m_2(E)$ bars.
For anchor bolt details see sheet 13 of 22.
For Bar Splicer (E) details see sheet 18 of 22.

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



SECTION A-A

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

January 23, 2007

EXAMINED *Thomas J. Demagala*
ENGINEER OF BRIDGE DESIGN

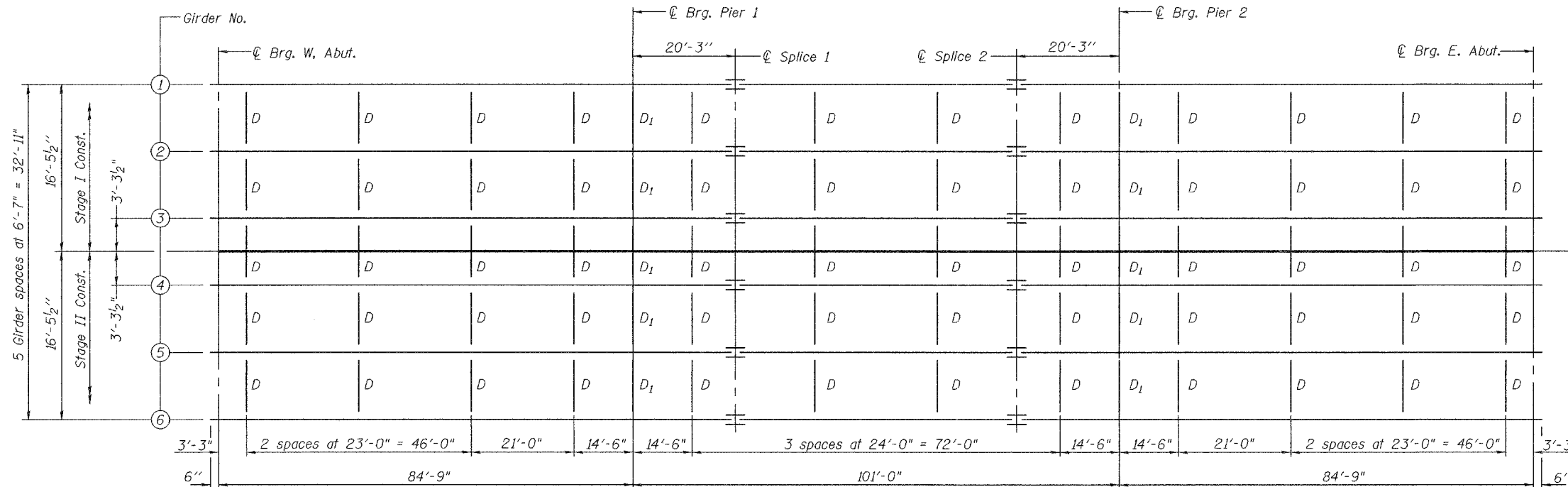
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

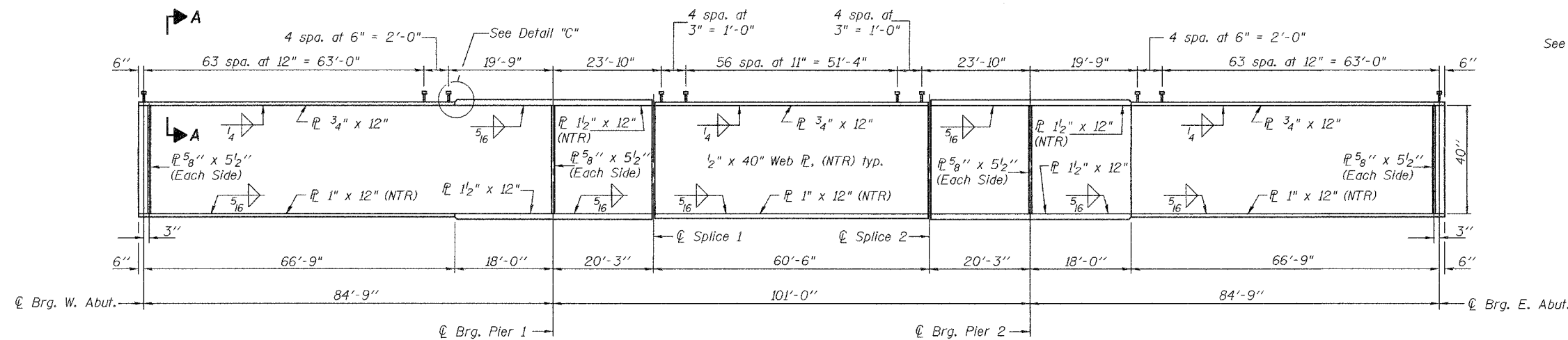
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 10 22 SHEETS
F.A.S. 1842	106BR	ST. CLAIR	61	31	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 76129

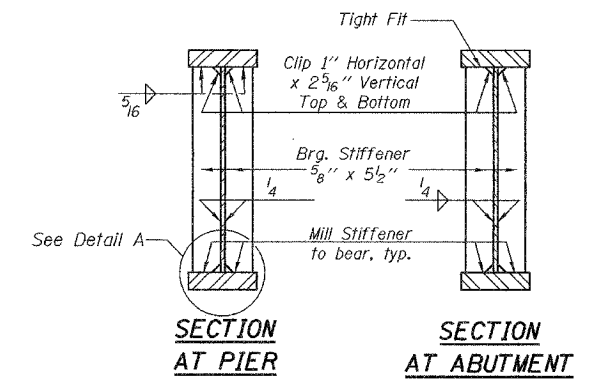


PLAN



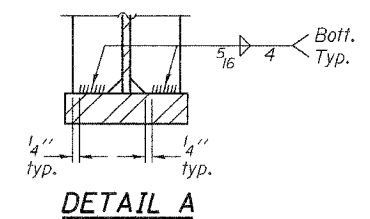
GIRDER ELEVATION

All plates of the girder, including bearing stiffeners, shall be AASHTO M270 Grade 50.



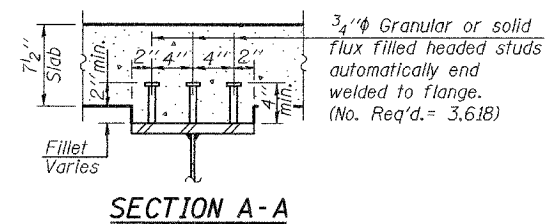
SECTION AT PIER

SECTION AT ABUTMENT

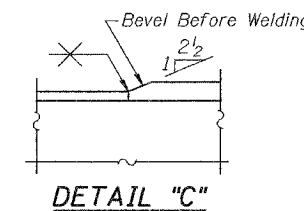


DETAIL A

Note:
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



SECTION A-A



DETAIL "C"

DESIGNED	JEK
CHECKED	RLM
DRAWN	DMC AMBER SEIBER
CHECKED	RLM

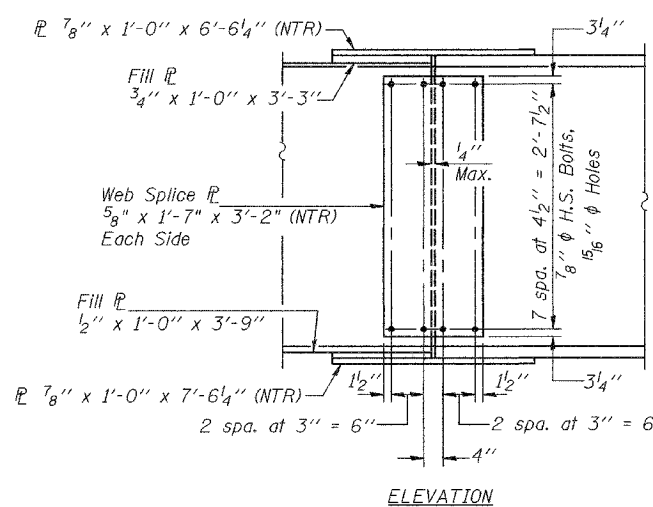
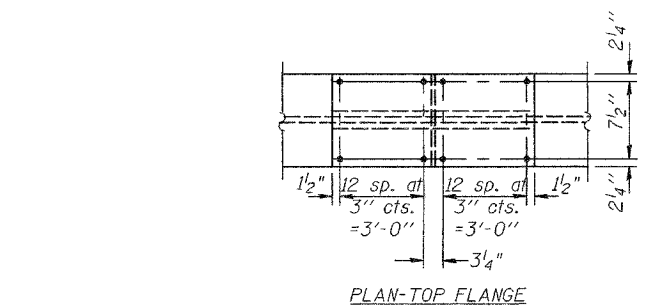
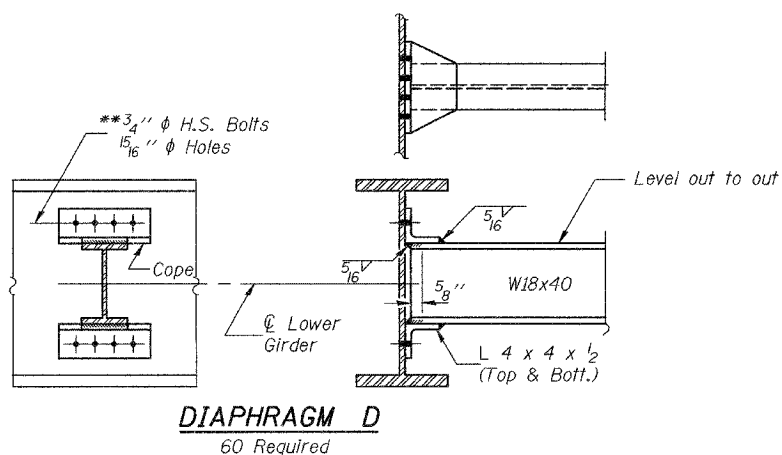
January 23, 2007
EXAMINED *Thomas J. Damgalaki*
ENGINEER OF BRIDGES AND STRUCTURES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

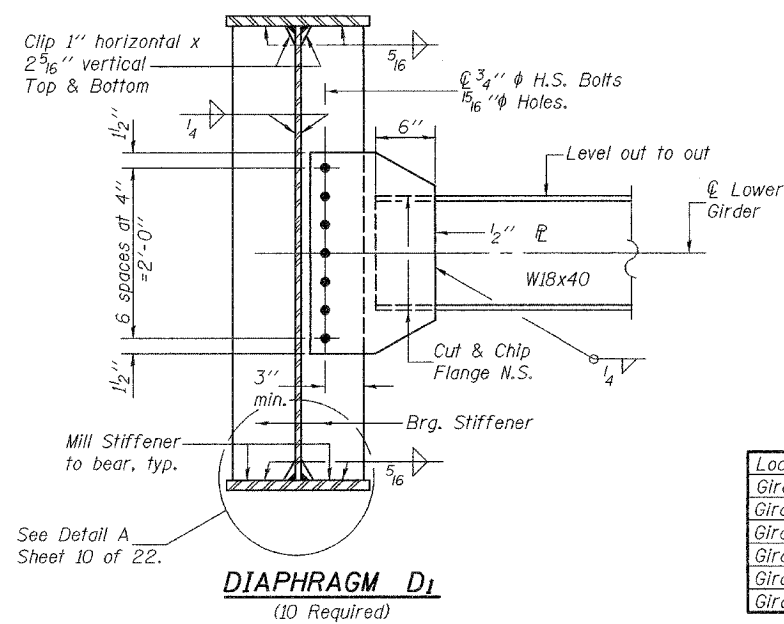
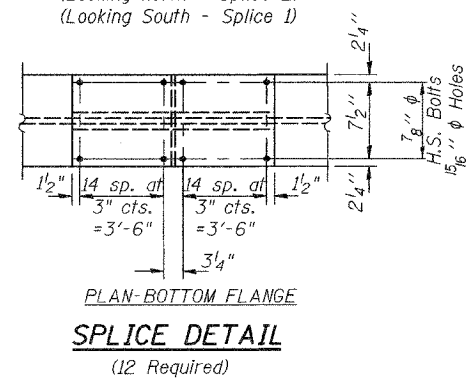
ROUTE NO. F.A.S. 1842	SECTION 106BR	COUNTY ST. CLAIR	SHEET NO. 61	SHEET NO. 32	SHEET NO. 11 22 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 76129



	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I_s (in ⁴)	11352	18174	11352
I_c (in ⁴)	29813		29813
I_c (sn) (in ⁴)	21762		21762
S_s (in ³)	583	845	583
S_c (in ³)	827		827
S_c (sn) (in ³)	754		754
ρ (k/ft.)	0.793	1.334	0.793
M_R (k)	379	1139	253
s_R (k/ft.)	0.479		0.479
M_{sR} (k)	266		242
M_L (k)	626	481	634
M (Imp) (k)	149	111	140
$5_s[M_L + M(imp)]$ (k)	1292	987	1290
M_a (k)	2518	2764	2321
M_u (k)	3206	3521	3278
f_s non-comp (k.s.i.)	7.8	16.2	5.2
f_s (comp) (k.s.i.)	4.2		3.9
$f_s 5_s (k + imp)$ (k.s.i.)	18.7	14.0	18.7
f_s (Overload) (k.s.i.)	30.7	30.2	27.8
f_s (Total) (k.s.i.)		39.4	
VR (k)	50.9		43.8

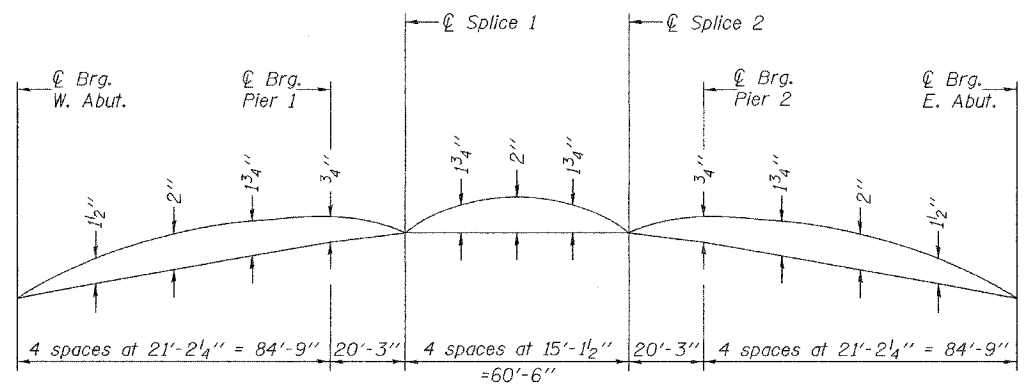
	Abuts.	Piers
R_R (k)	40.6	133.8
R_L (k)	37.4	56.7
Imp. (k)	8.9	13.0
R (Total) (k)	86.9	203.5



***TOP OF WEB ELEVATIONS**

Location	¢ Brg. W. Abut.	¢ Brg. Pier 1	¢ Splice 1	¢ Splice 2	¢ Brg. Pier 2	¢ Brg. E. Abut.
Girder 1	420.192	420.472	420.461	420.461	420.472	420.192
Girder 2	420.318	420.598	420.586	420.586	420.598	420.318
Girder 3	420.421	420.700	420.689	420.689	420.700	420.421
Girder 4	420.421	420.700	420.689	420.689	420.700	420.421
Girder 5	420.318	420.598	420.586	420.586	420.598	420.318
Girder 6	420.192	420.472	420.461	420.461	420.472	420.192

*For fabrication only



I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 M_a (Applied Moment) = $1.3[M_R] + M_{sR} + 5_s[M_L + M(imp)]$.
The Plastic Moment capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1.
 f_s (Overload) is the sum of the stresses due to $M_R + M_{sR} + 5_s[M_L + M(imp)]$.
 f_s (Total) (Non-compact section) is the sum of the stresses due to $1.3[M_R] + M_{sR} + 5_s[M_L + M(imp)]$.
 M_R - Moment due to dead loads on non-composite section.
 M_{sR} - Moment due to dead loads on composite section.
 M_L - Moment due to live load on non-composite or composite section.
 $M(imp.)$ - Moment due to live load impact on non-composite or composite section.

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

Notes:
All Splice plates shall be AASHTO M270, Grade 50, except fill plates.
Two hardened washers shall be required over all oversize holes for diaphragms.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

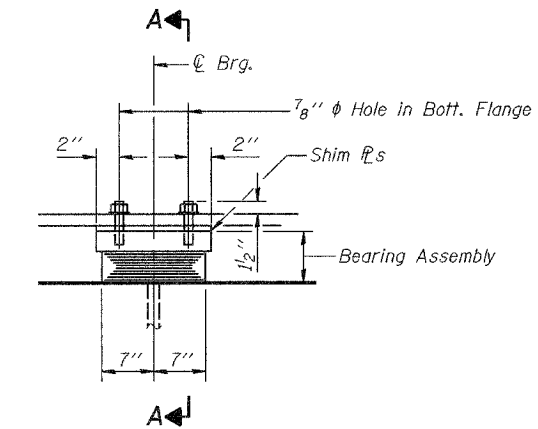
DESIGNED	JEK	EXAMINED	January 23, 2007
CHECKED	RLM	PASSED	Thomas J. Donagale ENGINEER OF BRIDGE DESIGN
DRAWN	AMBER SEIBER		Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	RLM		

STRUCTURAL STEEL DETAILS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

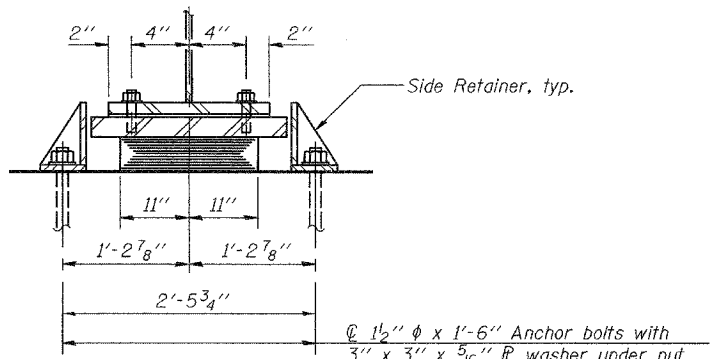
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	33
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 12
22 SHEETS
Contract No. 76129



ELEVATION AT PIERS

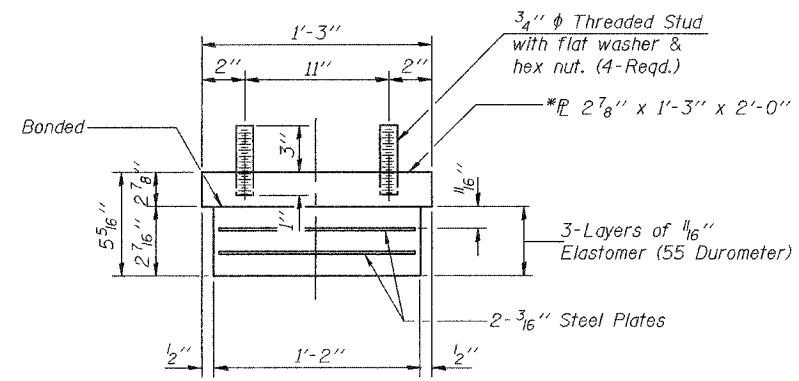


SECTION A-A

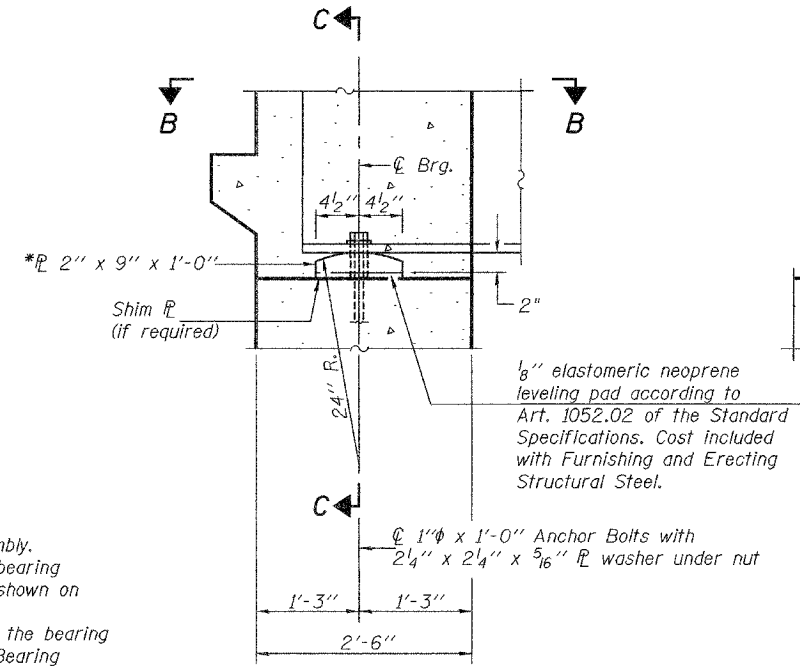
TYPE I ELASTOMERIC EXP. BRG.

* All bearing plates shall be AASHTO M270, Grade 50.

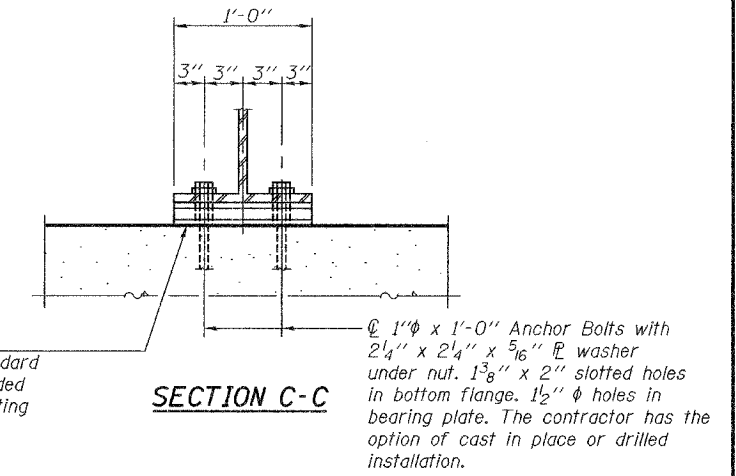
Notes:
See sheet 13 of 22 for Anchor Bolt Installation.
Shim plates shall not be placed under Bearing Assembly.
Two 5/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.



BEARING ASSEMBLY



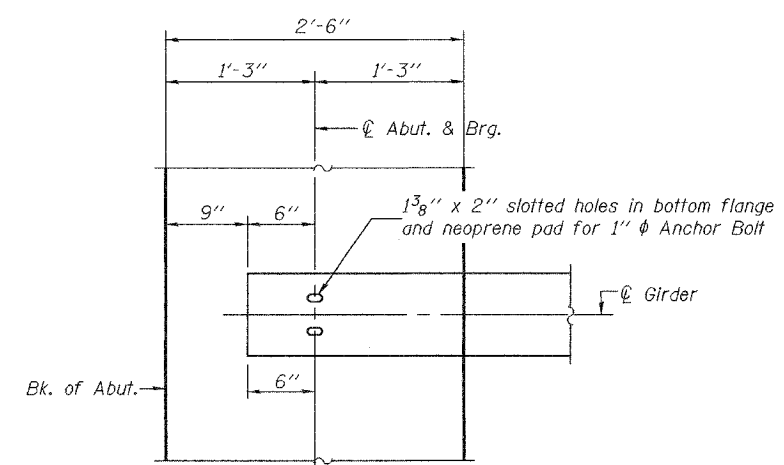
ELEVATION AT ABUTMENTS



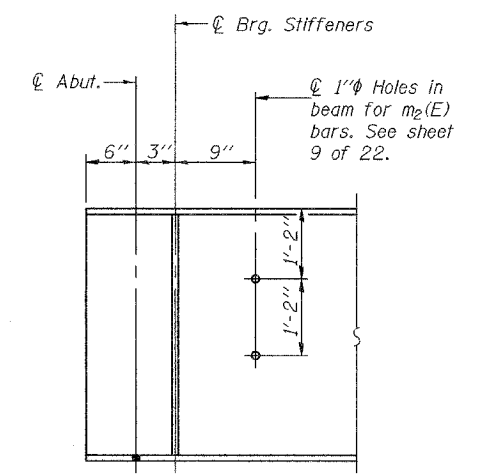
SECTION C-C

ABUTMENT BEARING

(12 Required)



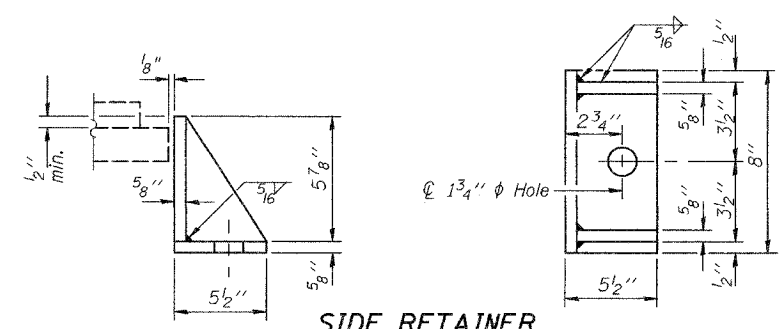
SECTION B-B



END OF GIRDER ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12



SIDE RETAINER

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

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMC AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Damagala*
SUPERVISOR OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

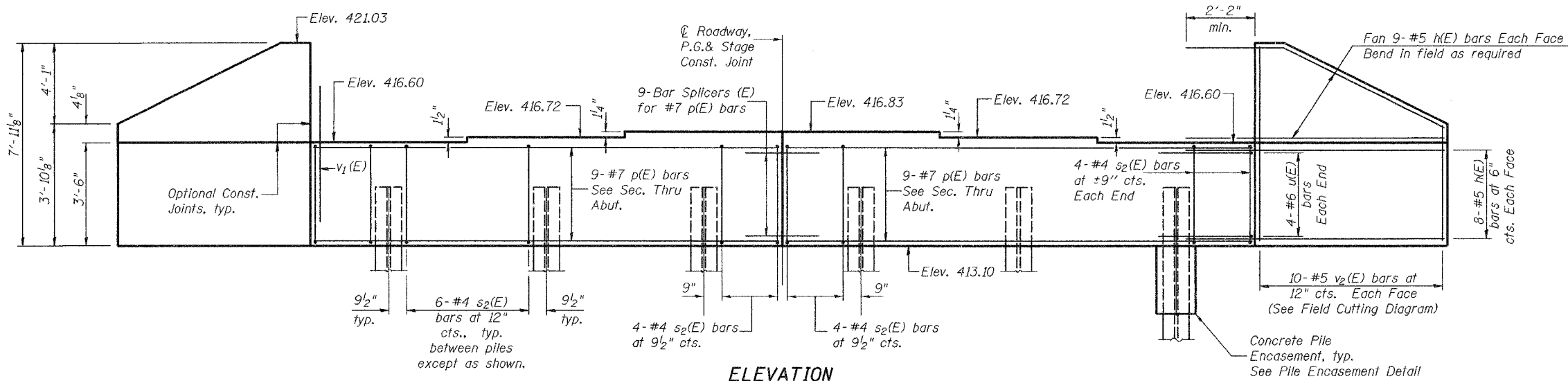
BEARING DETAILS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

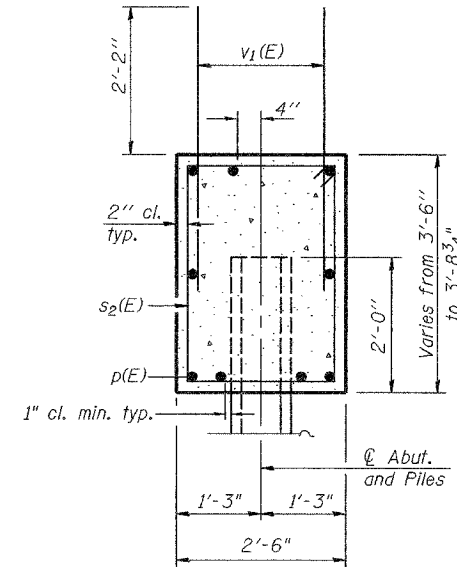
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	35
SHEET NO. 14 22 SHEETS				

Contract No. 76129

Notes:
Pour steps monolithically with cap.
For anchor bolt installation details see sheet 13 of 22.
For bar splicer assembly details see sheet 18 of 22.
The steel H-piles shall be according to AASHTO M270 Grade 50.



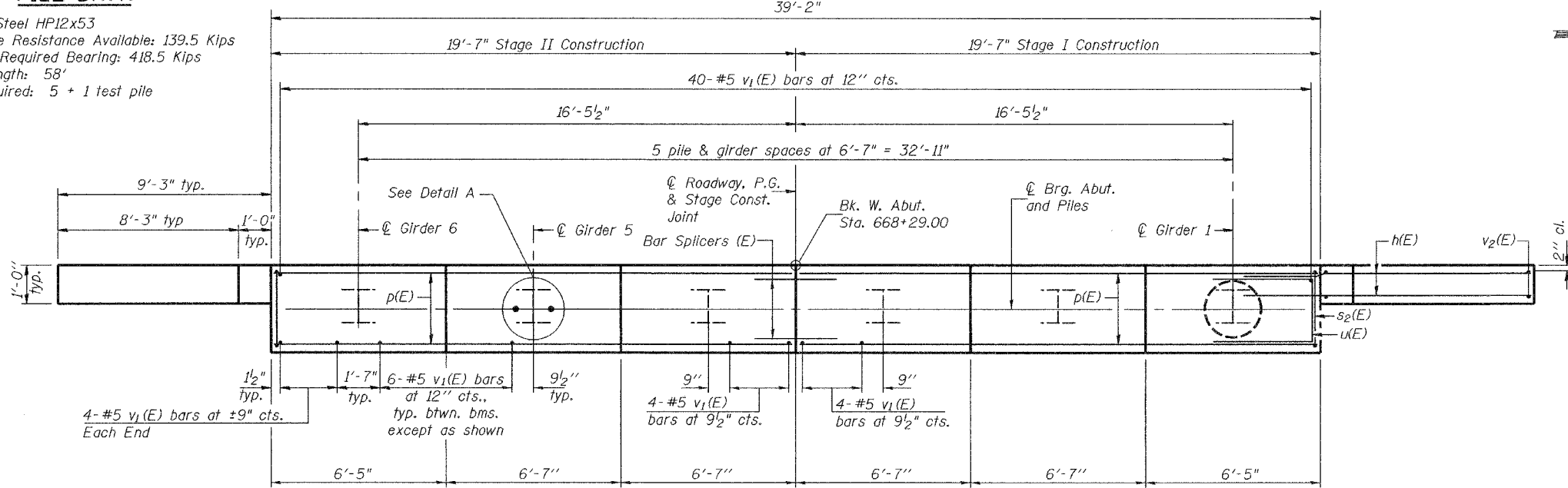
ELEVATION
(Looking West)



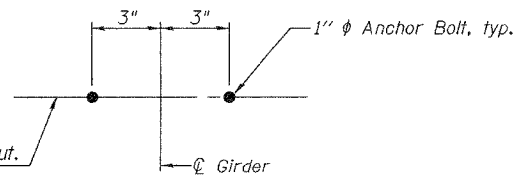
SEC. THRU ABUT.

PILE DATA

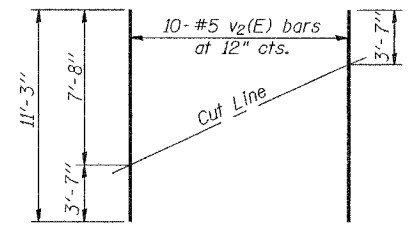
Type: Steel HP12x53
Allowable Resistance Available: 139.5 Kips
Nominal Required Bearing: 418.5 Kips
Est. Length: 58'
No. Required: 5 + 1 test pile



PLAN

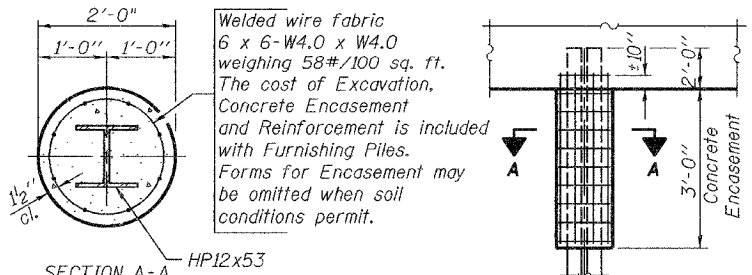


DETAIL A

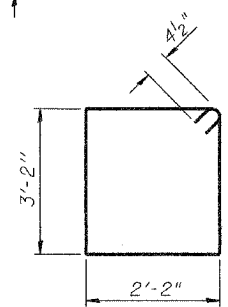


FIELD CUTTING DIAGRAM

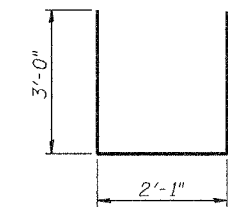
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



PILE ENCASEMENT DETAIL



BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#5	12'-5"	—
p(E)	18	#7	19'-3"	—
s2(E)	40	#4	11'-5"	□
u(E)	8	#6	8'-1"	—
v1(E)	80	#5	4'-4"	—
v2(E)	20	#5	11'-3"	—
Concrete Structures	Cu. Yd.		17.3	
Reinforcement Bars, Epoxy Coated	Pound		2590	
Structure Excavation	Cu. Yd.		92	
Furnishing Steel Piles HP12x53	Foot		290	
Driving Piles	Foot		290	
Test Pile Steel HP12x53	Each		1	

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Donagale*
PASSED *Ralph E. Anderson*

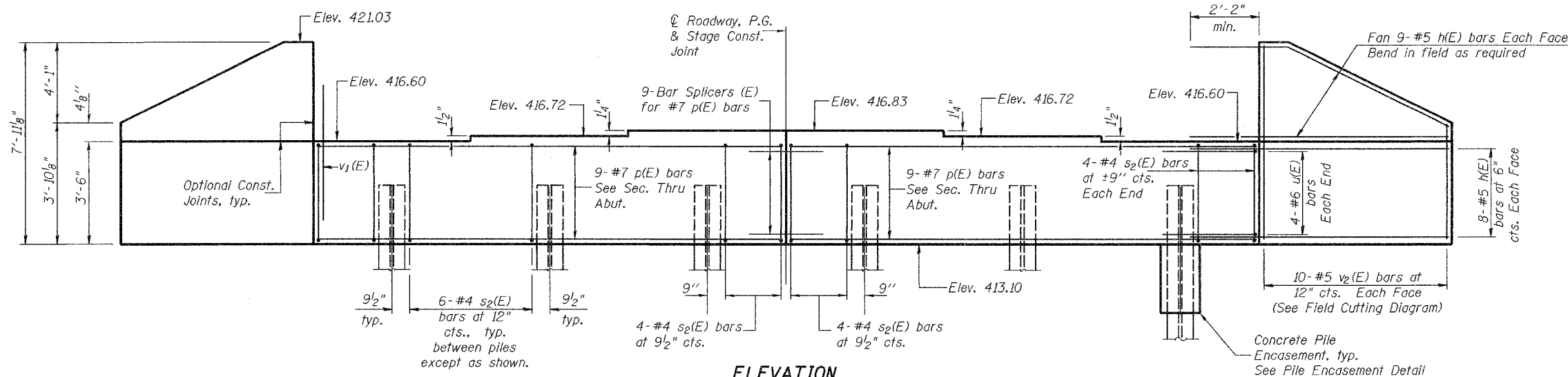
WEST ABUTMENT
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

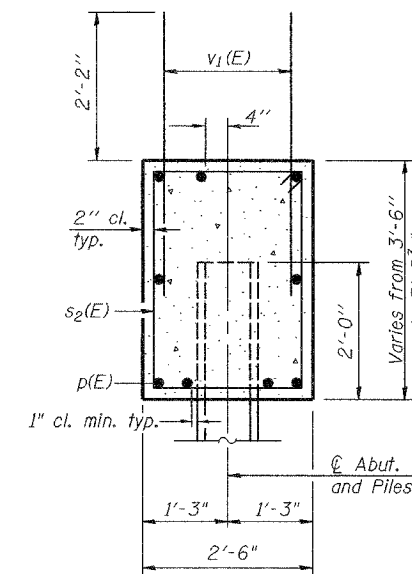
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
22 SHEETS
Contract No. 76129

Notes:
Four steps monolithically with cap.
For anchor bolt installation details see sheet 13 of 22.
For bar splicer assembly details see sheet 18 of 22.
The steel H-piles shall be according to AASHTO M270, Grade 50.



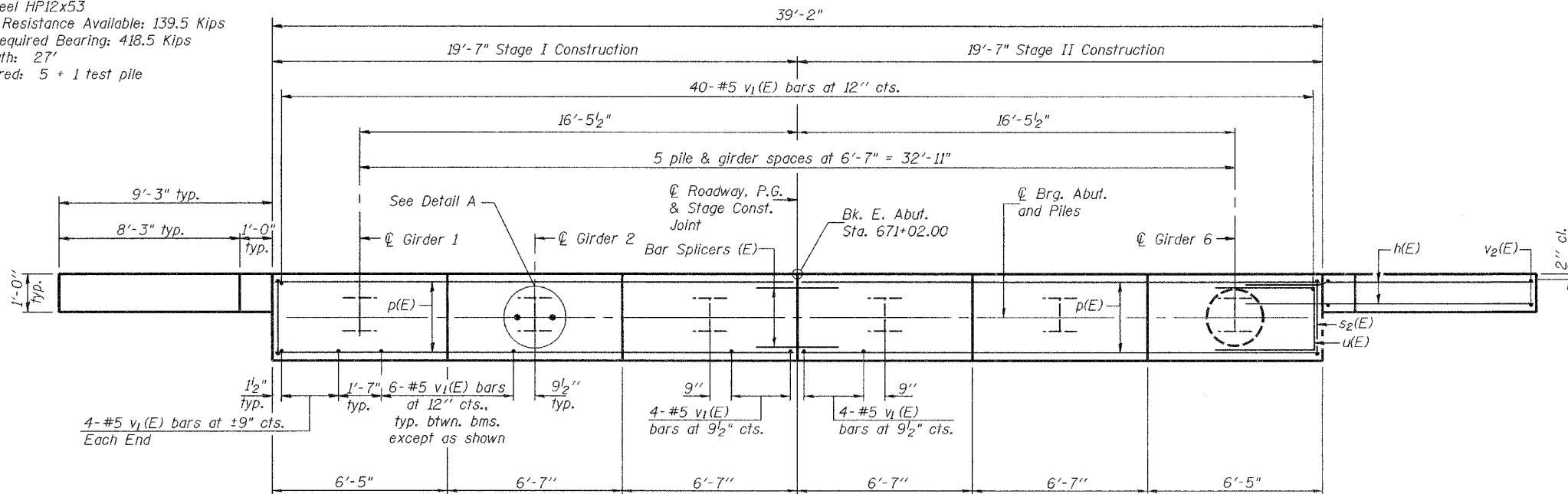
ELEVATION
(Looking East)



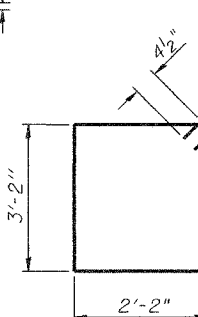
SEC. THRU ABUT.

PILE DATA

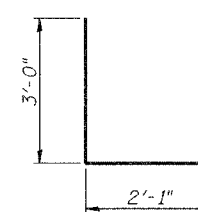
Type: Steel HP12x53
Allowable Resistance Available: 139.5 Kips
Nominal Required Bearing: 418.5 Kips
Est. Length: 27'
No. Required: 5 + 1 test pile



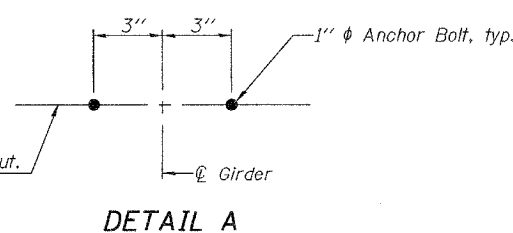
PLAN



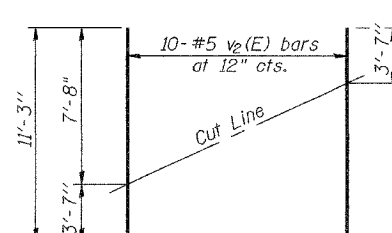
BAR s2(E)



BAR u(E)

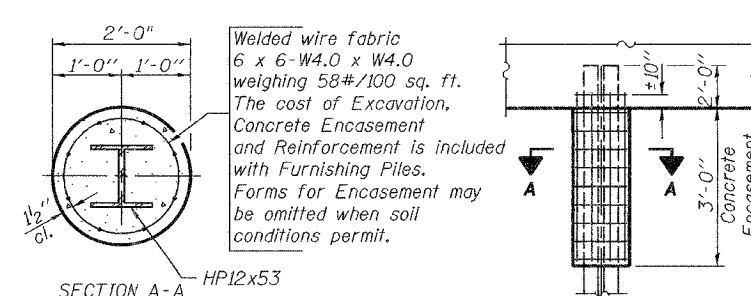


DETAIL A



FIELD CUTTING DIAGRAM

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



PILE ENCASEMENT DETAIL

Welded wire fabric 6 x 6-W4.0 x W4.0 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.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#5	12'-5"	—
p(E)	18	#7	19'-3"	—
s2(E)	40	#4	11'-5"	□
u(E)	8	#6	8'-1"	—
v1(E)	80	#5	4'-4"	—
v2(E)	20	#5	11'-3"	—
Concrete Structures		Cu. Yd.	17.3	
Reinforcement Bars, Epoxy Coated		Pound	2590	
Structure Excavation		Cu. Yd.	92	
Furnishing Steel Piles HP12x53		Foot	135	
Driving Piles		Foot	135	
Test Pile Steel HP12x53		Each	1	

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMC AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Damagala*
ENGINEER OF BRIDGES AND STRUCTURES
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

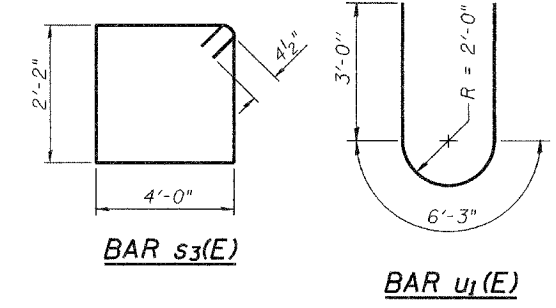
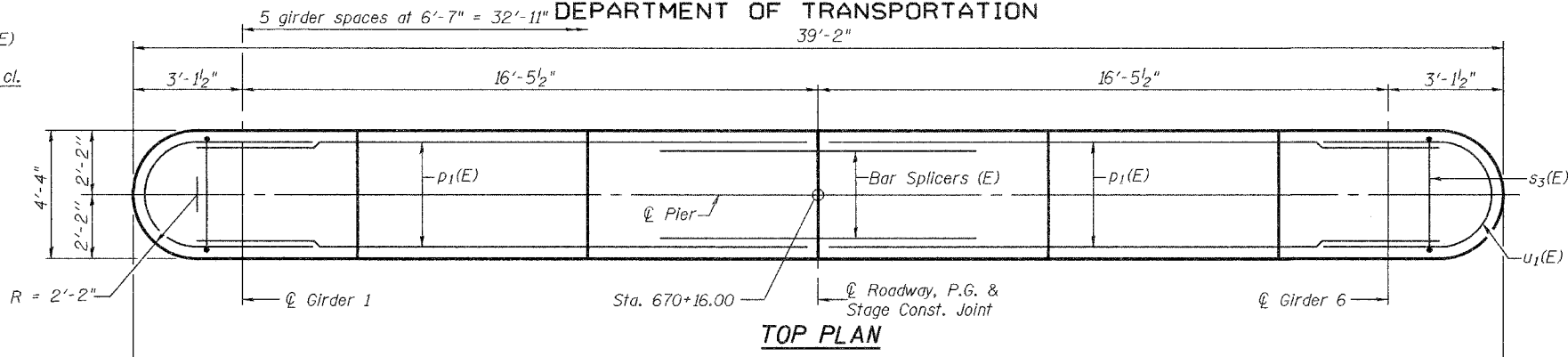
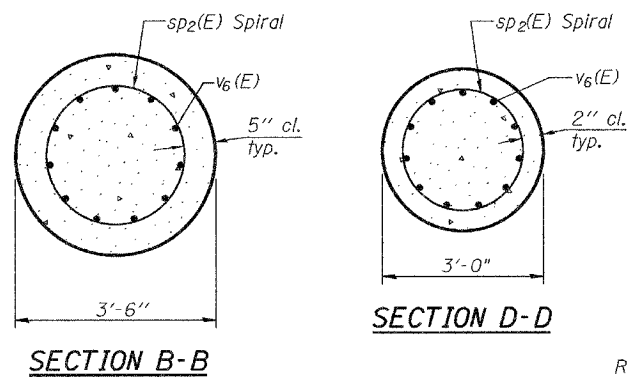
EAST ABUTMENT
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

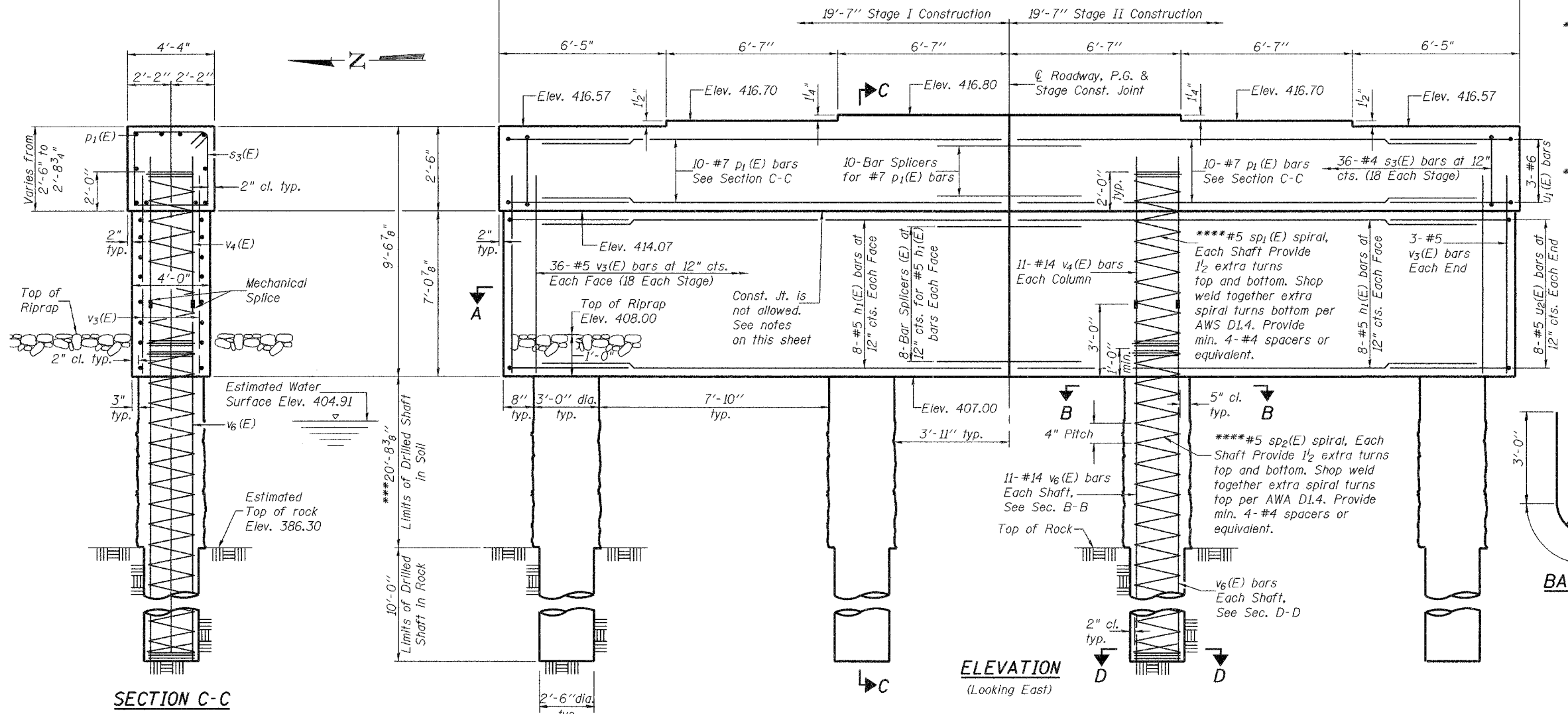
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 17
22 SHEETS

Contract No. 76129



***If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.
***Allowable Substitution: Provide 1/2 extra turns top and bottom with 135° standard hook into core at ends of spiral.



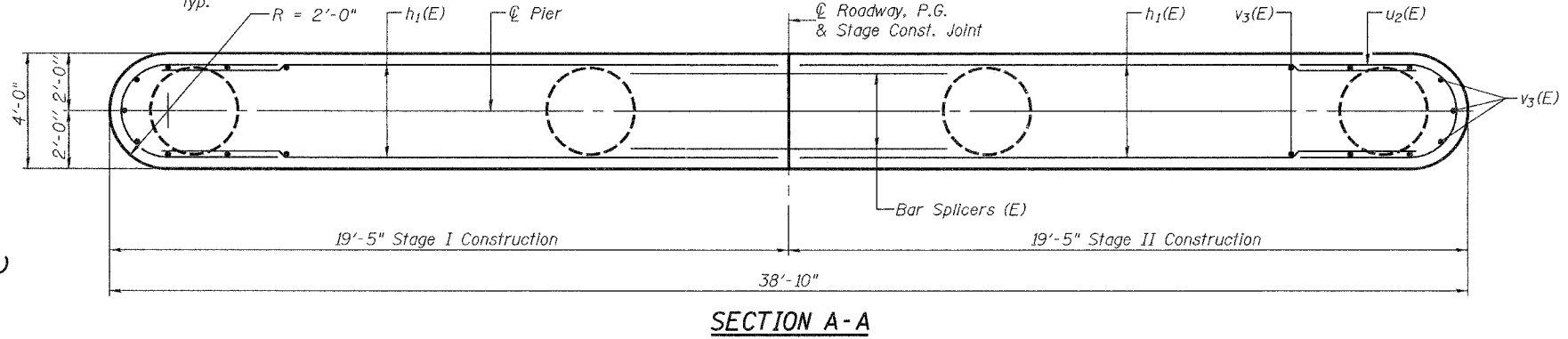
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	32	#5	17'-3"	—
$p_1(E)$	20	#7	17'-3"	—
$s_3(E)$	36	#4	13'-1"	U
* $sp_1(E)$	4	#5	8'-1"	W
* $sp_2(E)$	4	#5	32'-0"	W
$u_1(E)$	6	#6	12'-3"	U
$u_2(E)$	16	#5	11'-9"	U
$v_3(E)$	78	#5	8'-11"	—
$v_4(E)$	44	#14	6'-4"	—
$v_6(E)$	44	#14	33'-8"	—
Concrete Structures		Cu. Yd.	56.4	
Reinforcement Bars, Epoxy Coated		Pound	27970	
Underwater Structure Excavation Protection, Location 2		Each	1	
Drilled Shaft in Soil		Cu. Yd.	29.6	
Drilled Shaft in Rock		Cu. Yd.	10.5	
Structure Excavation		Cu. Yd.	12	
Mechanical Splice		Each	44	

Notes:
Top of rock is estimated and may vary along the length of the pier.
Pour cap monolithically with pier wall.

DESIGNED	AMJ
CHECKED	RLM
DRAWN	AMC AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Damgalaki*
ENGINEER OF BRIDGES AND STRUCTURES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



PIER 2
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

*Length is height of spirals.
**Weight includes spacers for spirals.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
22 SHEETS

Contract No. 76129

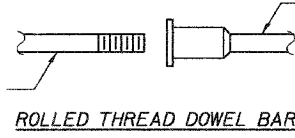
NOTES

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

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

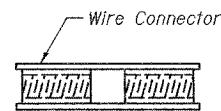
The diameter of this part is equal or larger than the diameter of bar spliced.
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



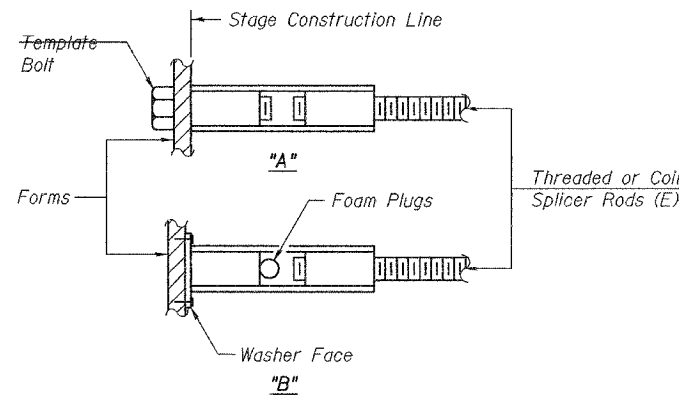
** ONE PIECE



WELDED SECTIONS

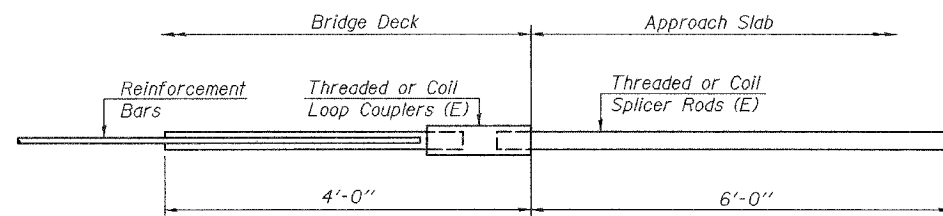
BAR SPLICER ASSEMBLY ALTERNATIVES

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



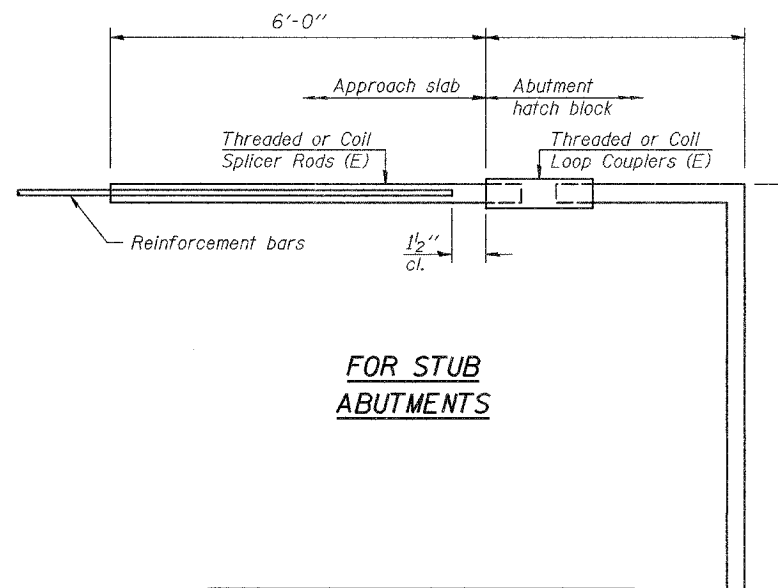
INSTALLATION AND SETTING METHODS

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



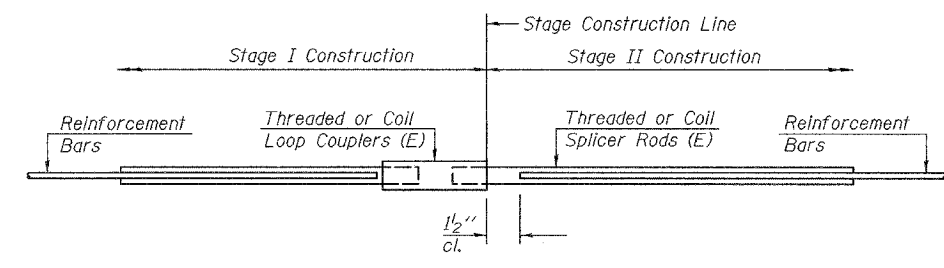
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 72



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	834	Deck
#6	16	Diaphragm
#7	9	W. Abut.
#7	9	E. Abut.
#5	16	Pier 1 Wall
#7	10	Pier 1 Cap
#5	16	Pier 2 Wall
#7	10	Pier 2 Cap

BAR SPLICER ASSEMBLY DETAILS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

DESIGNED	JEK
CHECKED	RLM
DRAWN	AMBER SEIBER
CHECKED	RLM

January 23, 2007
EXAMINED *Thomas J. Damagala*
PASSED *Ralph E. Anderson*

BSD-1 11-1-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	42
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21
22 SHEETS
Contract No. 76129

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 3/75

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC. TWP. 2S, RNG. 8W, 3 PM

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

STRUCT. NO. ex. 082-0089
Station 669+65.50

BORING NO. #7 W. Abut
Station 668+69.08
Offset 10.00ft Rt
Ground Surface Elev. 419.6 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
0	Surface Water Elev. 419.3 ft				0	Stream Bed Elev. 402.9 ft			
0	Groundwater Elev.:				0	First Encounter			
0	Upon Completion 387.8 ft				0	Upon Completion 387.8 ft			
0	After Hrs.				0	After Hrs.			
0	Tan and Brown CLAY (continued)				8	0.82 S			38
16	1.04 S				9	0.97 S			42
14	0.72 B				11	1.98 S			29
411.6					391.6				
11	0.81 B				11	1.50 S			19
6	0.65 B				9	0.59 S			41
4	0.43 B				5	0.33 S			33
404.1					383.6				
4	0.39 B				9	NC			
5	0.49 B				25	NC			
399.1					40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2
Date 3/75

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC. TWP. 2S, RNG. 8W, 3 PM

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

STRUCT. NO. ex. 082-0089
Station 669+65.50

BORING NO. #7 W. Abut
Station 668+69.08
Offset 10.00ft Rt
Ground Surface Elev. 419.6 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
35	Gray Coarse SAND (continued)				35	NC			
378.6					50				
373.1	Broken Sand and LIMESTONE				100+				
373.1									
368.6	Hard Gray Green Fossiliferous (Crinoids) LIMESTONE (Cored - Recovery = 100%)				50				
368.6					50				
End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3
Date 7/102

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC. TWP. 2S, RNG. 8W, 3 PM

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

STRUCT. NO. ex. 082-0089
Station 669+65.50

BORING NO. #8
Station 669+16
Offset 26.50ft Lt
Ground Surface Elev. 410.1 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
0	Surface Water Elev. 407.7 ft				0	Stream Bed Elev. 393.1 ft			
0	Groundwater Elev.:				0	First Encounter			
0	Upon Completion 300.6 ft				0	Upon Completion 300.6 ft			
0	After Hrs.				0	After Hrs.			
0	Brown Silty Clay LOAM				389.6	3	1.0 S		21
2					5	0.8 S			30
2	0.9 S				1	1.0 S			42
405.1					387.1	2	0.8 S		33
404.6	Concrete Rubble				25				
404.6					4	0.8 S			30
0	Gray Silty CLAY				5	0.5 S			30
0					2	NC			
1	0.4 S				2				
3	0.5 S				3	NC			21
2					3	0.7 S			10
4	1.3 S				4	0.8 S			10
6	1.0 S				8	1.0 S			23
2					3				
4	1.8 S				2				
7	0.5 S				3				
3					5	1.9 S			40
3					3	1.8 S			34
3					6	0.5 S			18
391.1					2				
391.1	Brown Clay LOAM				2				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3
Date 7/102

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC. TWP. 2S, RNG. 8W, 3 PM

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

STRUCT. NO. ex. 082-0089
Station 669+65.50

BORING NO. #8
Station 669+16
Offset 26.50ft Lt
Ground Surface Elev. 410.1 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL TYPE	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
0	Surface Water Elev. 407.7 ft				0	Stream Bed Elev. 393.1 ft			
0	Groundwater Elev.:				0	First Encounter			
0	Upon Completion 400.6 ft				0	Upon Completion 400.6 ft			
0	After Hrs.				0	After Hrs.			
0	Gray SHALE with Embedded Limestone Gravel (continued)				389.1	GR			10
0	Borehole continued with rock coring.								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

BORING LOGS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	43
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 22
22 SHEETS

Contract No. 76129

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3
Date 7/10/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford
SECTION 106BR LOCATION SEC., TWP. 2S, RNG. 8W, 3 PM
COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. ex. 082-0089 CORING BARREL TYPE & SIZE
Station 669+65.50 Core Diameter 2 in
BORING NO. #8 Top of Rock Elev. 369.10 ft
Station 669+15 Begin Core Elev. 369.10 ft
Offset 26.50ft Lt
Ground Surface Elev. 401.1 ft

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	STRENGTH (psi)	REMARKS
369.10		50	4	Gray LIMESTONE
368.10				
367.10				Gray SHALE with Calcareous Seams
		22	26	6
		22	26	6
		22	26	6
		22	26	7
		22	26	10
		22	26	8
		22	26	7
360.10				End of Core and Boring

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 7/10/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford
SECTION 106BR LOCATION SEC., TWP. 2S, RNG. 8W, 3 PM
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ex. 082-0089
Station 669+65.50
BORING NO. #9 E. Pier
Station 670+15
Offset 27.00ft Lt
Ground Surface Elev. 400.8 ft

Surface Water Elev. 407.7 ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	STRENGTH (psi)	REMARKS
				Brown Silty Clay LOAM
				Gray Silty CLAY
				Gray Clayey SAND
				Gray Limestone GRAVEL (weathered)
				Borehole continued with rock coring.
				Gray Silty CLAY with some Organics and Concrete Rubble
				Gray Sandy CLAY
				Gray Silty CLAY
				Gray Silty CLAY with Organics
				Cru & Sample Before = 60.941 g
				Cru & Sample After = 49.331 g
				Cru Wt = 27.980
				% Organics = 7.0 %

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

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 2 of 2
Date 7/10/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford
SECTION 106BR LOCATION SEC., TWP. 2S, RNG. 8W, 3 PM
COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. ex. 082-0089 CORING BARREL TYPE & SIZE
Station 669+65.50 Core Diameter 2 in
BORING NO. #9 E. Pier Top of Rock Elev. 388.30 ft
Station 670+15 Begin Core Elev. 388.30 ft
Offset 27.00ft Lt
Ground Surface Elev. 409.8 ft

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	STRENGTH (psi)	REMARKS
388.30		67	38	4
		67	38	4
		67	38	7.5
		67	38	4.5
		67	38	4
		67	38	6.5
		67	38	4
379.30				SHALE Seam
378.80				
		67	38	5
377.30				Gray LIMESTONE
		67	38	2.5
				End of Core and Boring

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

BORING LOGS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

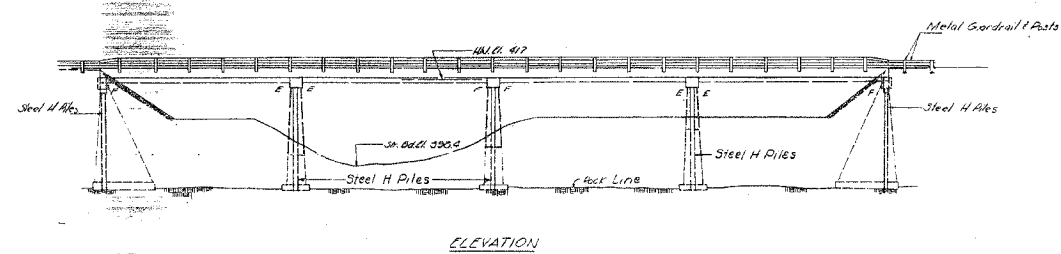
DM: 2' cut in top of bridge 12' x 24' 660179
 Elev. 418.85 (at bottom of cut)
 Existing Structure: Built as 2nd 126, Sec. 106 D, in 1953 by 665.85.
 Concrete deck girder 4 spans with RC open girders and
 RC piers. Existing rails to be removed and structure to
 be widened. Existing wearing surface to be removed and replaced.
 Traffic to be maintained over the structure at all times using stage constr.
 No Salvage.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

789	54BR-1	MADISON	61	44
-----	--------	---------	----	----

GENERAL NOTES

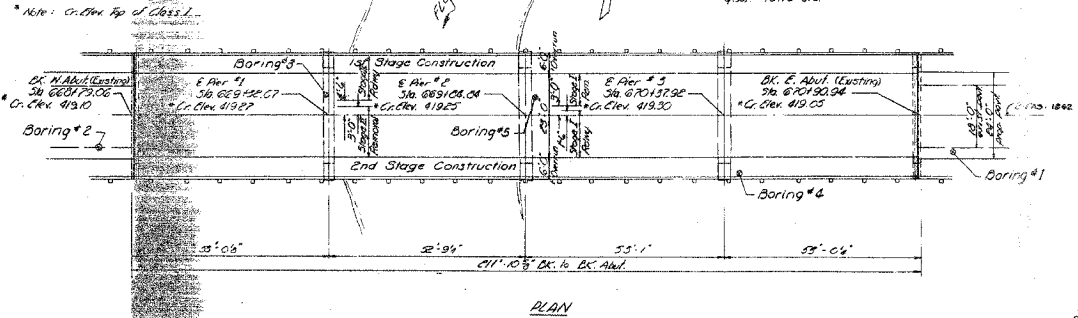
All reinforcement bars shall be lapped at diameters or less otherwise shown.
 The Basic Lead Sides (transverse) system shall be used for shop and field casting of structural steel.
 It shall be the responsibility of the contractor to verify all dimensions of structural steel in the field prior to construction and ordering of materials.
 An alternate strand pattern using 5/16" dia. strands and 1/2" dia. strands is permitted.
 Excavation shall consist of self-aligning excavation anchors and 1/2" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
 Limits of waterproofing Membrane System shall be back to back of abutments.
 The contractor shall relocate the existing Name Plate to a new location as directed by the engineer. Cost to be incidental.
 The contractor shall drive 1 Steel test pile in a permanent location at Pier 2 as directed by the Engineer before ordering the remainder of piles.
 The top surface of the beams shall be finished in accordance with AASHTO 50205 at the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.



ELEVATION

WATERWAY INFORMATION

Drainage Area	130 Sq. Mi.
Character	50 yr Flood
Required Opening	1525 Sq. Ft.
Proposed Opening	1525 Sq. Ft.
Ordinary Water Elev.	401.2
Flow	1070 cfs.



PLAN

TOTAL BILL OF MATERIAL

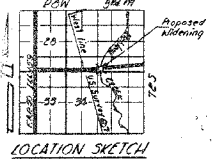
Item	Unit	Supply	Sub	Total
Concrete Removal	Sq. Yds.	50	2	52
Bit Coat Surf. Coat Class 7	Sq. Yds.	87	0	87
Waterproofing Membrane Type 2	Sq. Yds.	88	0	88
Excavation (Type 1)	Cu. Yds.	150	150	300
Structure Excavation	Cu. Yds.	81	0	81
Class X Concrete	Cu. Yds.	69.7	62.0	131.7
RFCC Deck Beams (27)	Sq. Ft.	1530	0	1530
Structural Steel	Lbs.	4870	0	4870
Reinforcement Bars	Lbs.	280	3820	4100
Steel Piles (HP 12 X 33)	Lin. Ft.	1	283	284
Test Piles (Steel HP 12 X 33)	Each	1	1	2
Steel Piling (Type 1)	Lin. Ft.	423	0	423
Temporary Guardrail	Lin. Ft.	212	0	212
Bridge Wearing Surface (Asphalt)	Sq. Yds.	23	0	23
Formwork (Type 2)	Sq. Yds.	20	0	20
Portland Cement Mortar (Type 1)	Sq. Yds.	844	0	844
Temporary Support System	Sq.	3	0	3
Rebar (Type 1)	Sq.	0	0	0

* See Special Provisions
 ** Consists of 62,760 Lbs Structural Steel.

PRECAST/PRESTRESSED UNITS FIELD UNITS

FC	5000 psi	A	1400 Sph
PC	4000 psi	W	75 Facing
FC-1	24000 psi (3strands)	IS	20000 psi Rein
FC-2	17500 psi (2strands)	IS	20000 psi Rein

Loading HS 20-44 New Construction



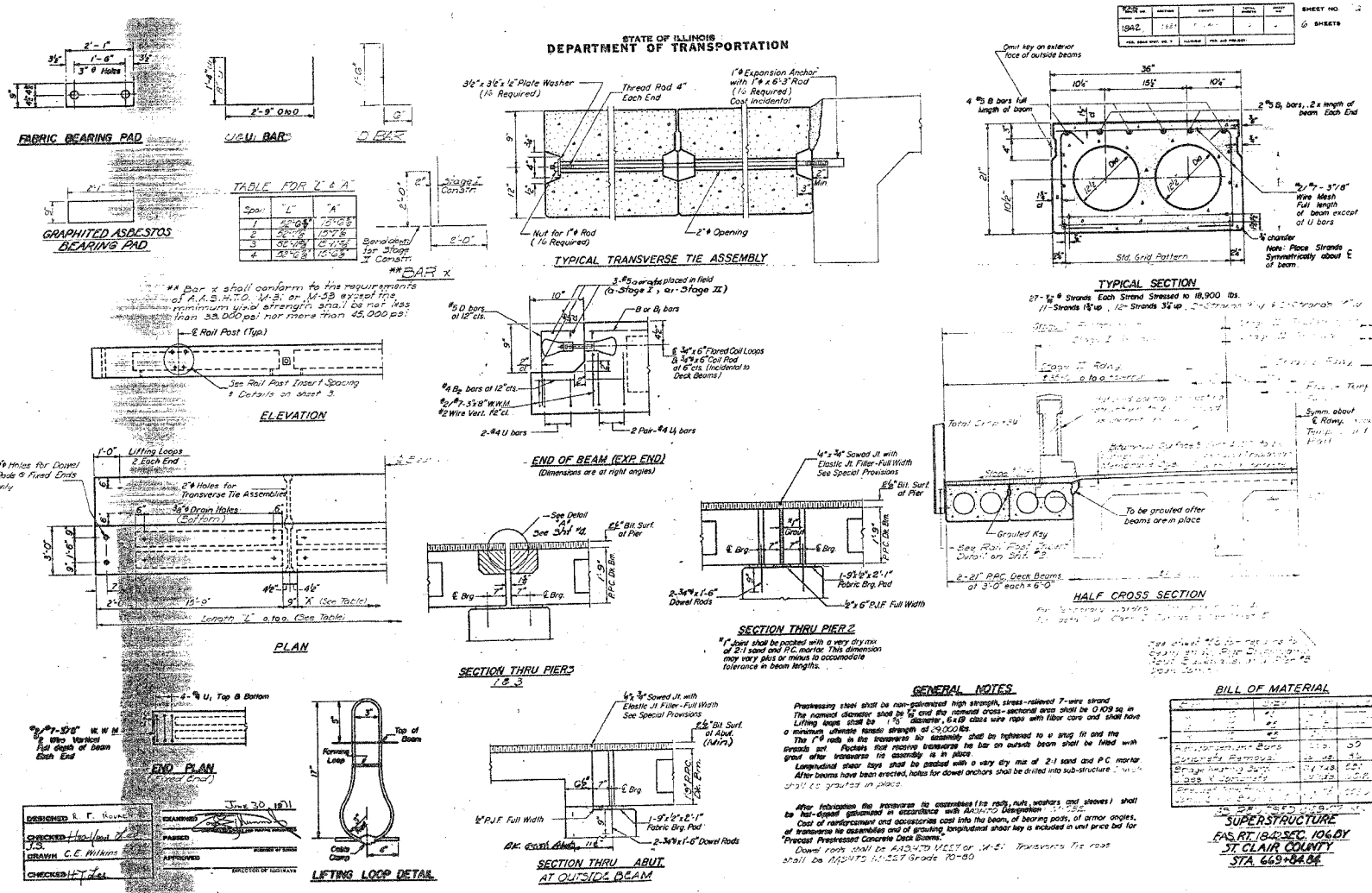
DESIGNED R. W. RANK	DATE 10/20/11
CHECKED J. J. JONES	APPROVED
DRAWN C. E. WILSON	APPROVED
CHECKED J. J. JONES	APPROVED

AS REVISED 10-23-11
 FA RT 116 OVER RICHLAND CREEK
 FAS RT 1842 SEC. 106 BY
 ST CLAIR COUNTY
 STATION 669104.04

FOR INFORMATION ONLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING STRUCTURE PLANS
NAME	DATE	
		FAS ROUTE 1842 SECTION 106BR ST CLAIR COUNTY SCALE: VERT. _____ HORIZ. _____ DATE _____ DRAWN BY _____ CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	45
STA.		TO STA.		
FEB. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

REVISIONS		DATE	
NAME			

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
 FAS ROUTE 1842
 SECTION 106BR
 ST CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

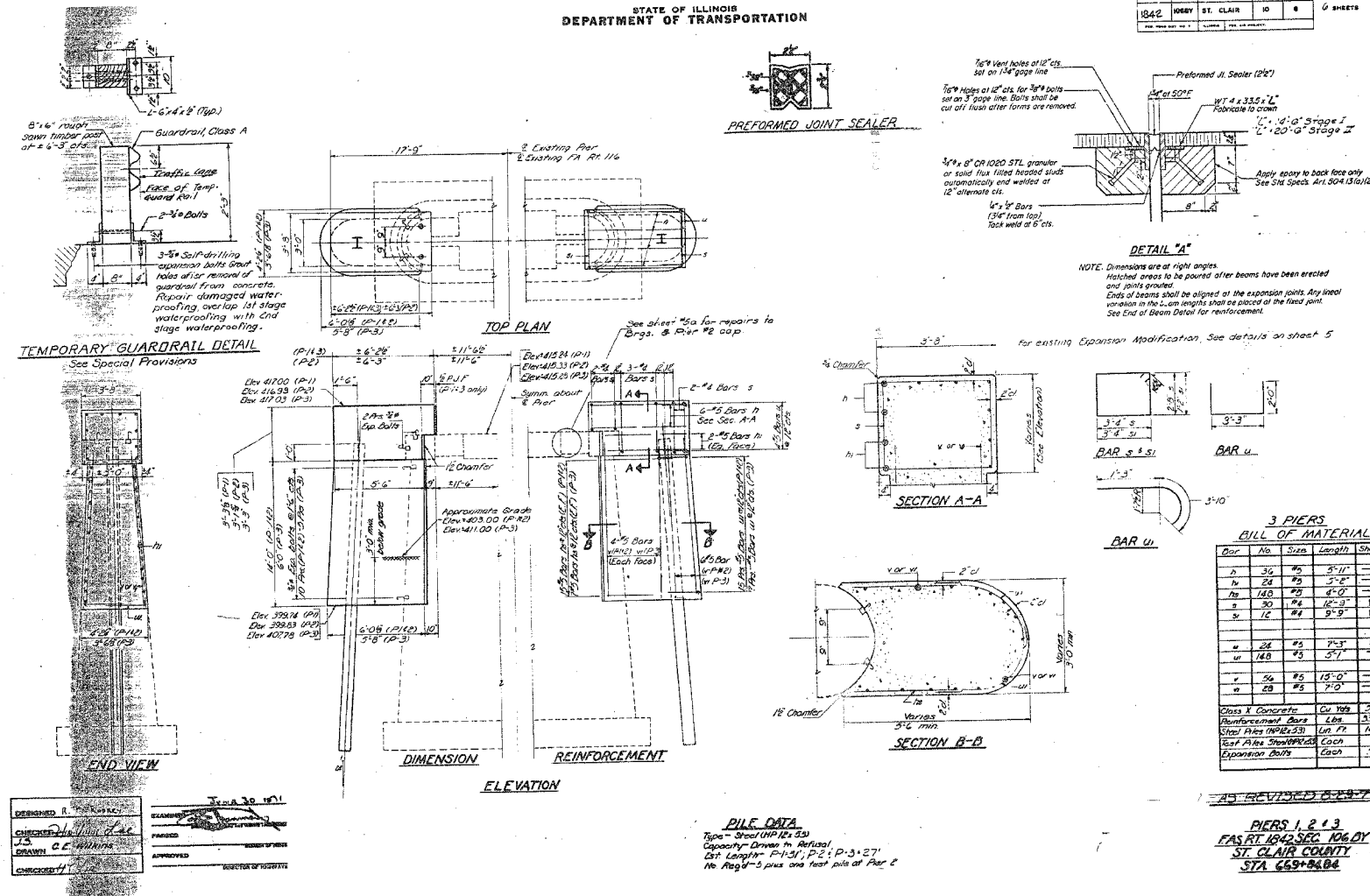
DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 11/9/2006
FILE NAME = c:\pwworkspace\14198\plan\pof\14198\4.dgn
SCALE = 1/8" = 1'-0"
REFERENCE = SHEET 45

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1842	1066Y	ST. CLAIR	10	6	6 SHEETS
------	-------	-----------	----	---	----------



FOR INFORMATION ONLY

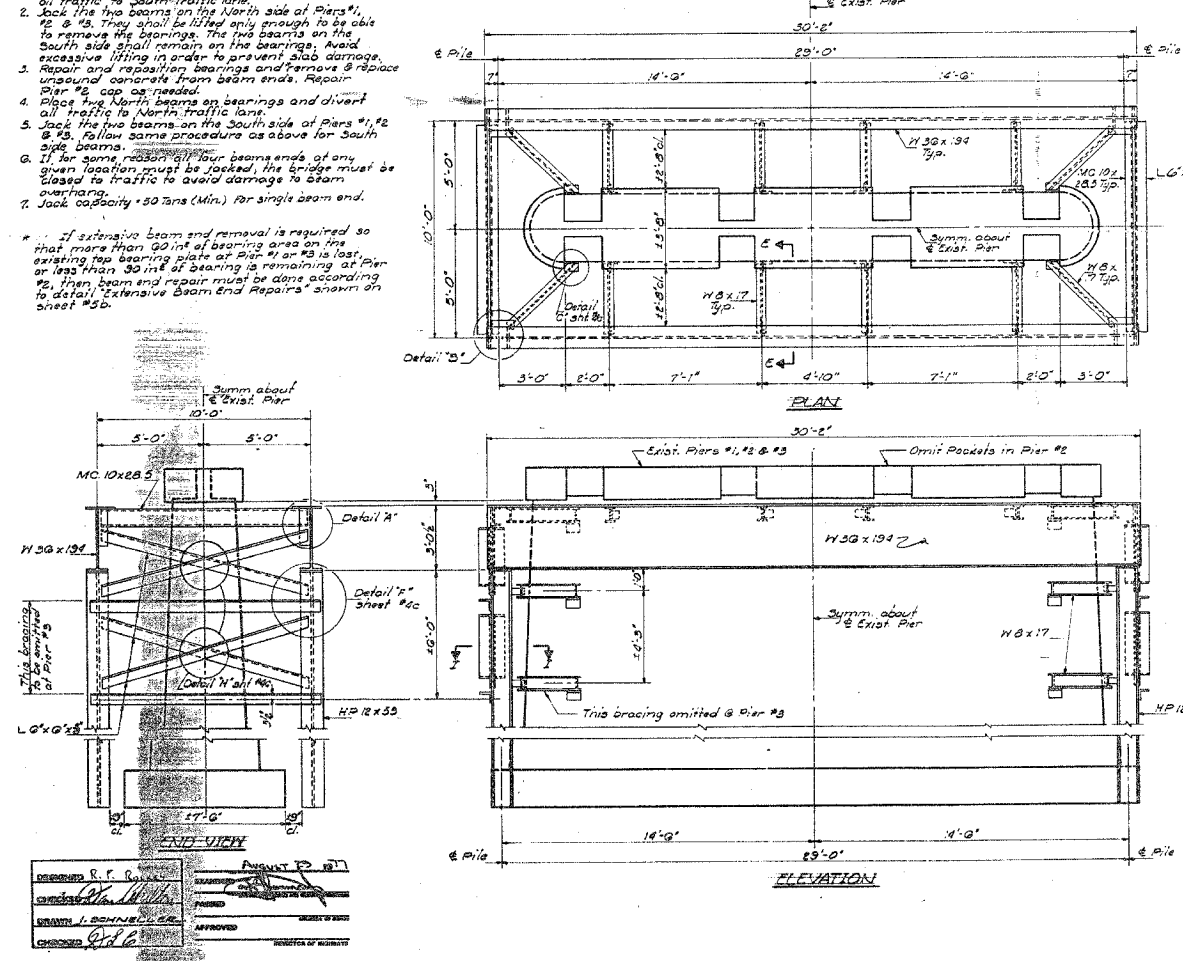
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING STRUCTURE PLANS
NAME	DATE	
		FAS ROUTE 1842 SECTION 106BR ST CLAIR COUNTY SCALE: VERT. DRAWN BY HORIZ. CHECKED BY DATE

PLOT DATE = 11/9/2006
FILE NAME = c:\projects\wd14198\plan\proj1\14198s4.dgn
PLOT SCALE = 56.00000' / 1" IN.
REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- JACKING PROCEDURE**
1. Place temporary barricades on E. Hwy. and divert all traffic to South traffic lane.
 2. Jack the two beams on the North side of Piers #1, #2 & #3. They shall be lifted only enough to be able to remove the bearings. The two beams on the South side shall remain on the bearings. Avoid excessive lifting in order to prevent slab damage.
 3. Repair and reposition bearings and remove & replace unsound concrete from beam ends. Repair Pier #2 cap as needed.
 4. Place the North beams on bearings and divert all traffic to North traffic lane.
 5. Jack the two beams on the South side of Piers #1, #2 & #3. Follow same procedure as above for South side beams.
 6. If, for some reason all four beams end of any given location must be jacked, the bridge must be closed to traffic to avoid damage to beam overhang.
 7. Jack capacity = 50 Tons (Min.) for single beam end.
- * If extensive beam end removal is required so that more than 50% of bearing area on the existing top bearing plate at Pier #1 or #3 is lost or less than 50% of bearing is remaining at Pier #2, then beam end repair must be done according to detail 'Extensive Beam End Repairs' shown on sheet #50.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SHIRT NO. 40
0 SHEETS

DETAIL 'A'

DETAIL 'B'

NOTE:
 1. All bolts shall be 3/4" H.S. Bolts unless otherwise noted.
 2. All edge distances for bolts shall be 1/2" Min. unless otherwise noted.
 3. A jack safety system subject to the approval of the Engineer shall be used to prevent the structure from falling more than 4" should the jack plunger fail.
 4. A bearing plate 14" x 10" shall be placed between the concrete beam surface and the jack during jacking operations.
 5. Positive attachment of the jack to the W 30x194 beam shall be provided.

PILE DATA
 Type: Steel HP 12x53
 Capacity: Drive & Refusal
 No. Req'd: 4 each Pier
 Est. Length: 27 Ft. Pier #1
 25 Ft. Piers #2 & #3
 (Piles included in Temporary Support Sys.)

**PIERS #1, #2 & #3
TEMPORARY SUPPORT SYSTEM
FAS RT. 1842 - SEC. 106 BR.
ST. CLAIR COUNTY
574 005184.04**

DESIGNED BY	APPROVED BY
CHECKED BY	REVISIONS
DATE	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS

FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT. DRAWN BY
HORIZ. CHECKED BY

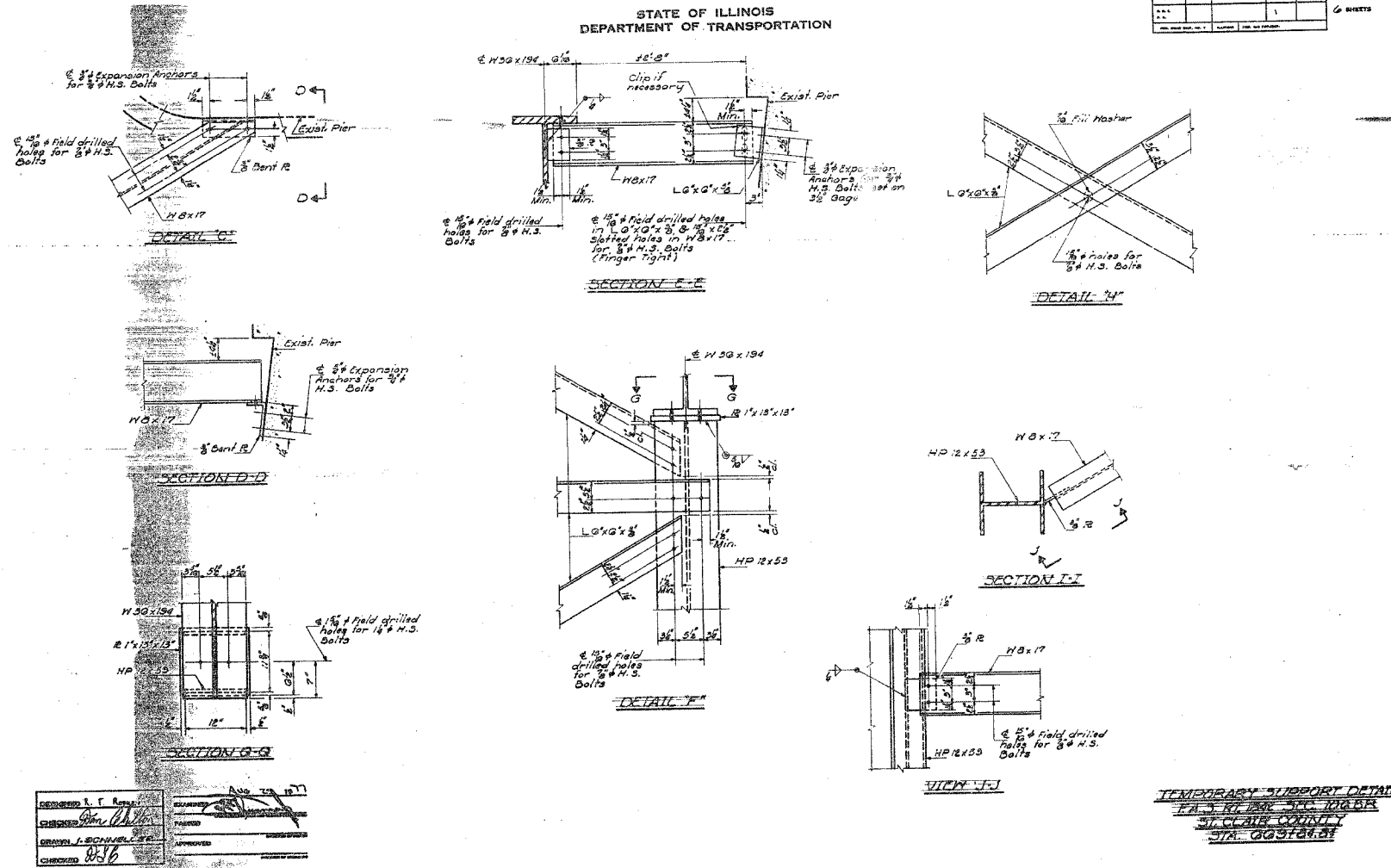
FOR INFORMATION ONLY

PLOT DATE = 11/07/2006
 FILE NAME = c:\p\proj\secta\ed1158\plan\pof\1.e11198a.dgn
 PLOT SCALE = 50.0000 / 1"
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	49
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	REVISION	NO.



DESIGNED BY	DATE
CHECKED BY	
DRAWN BY	
CHECKED BY	

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS

FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY

SCALE: VERT. _____
HORIZ. _____

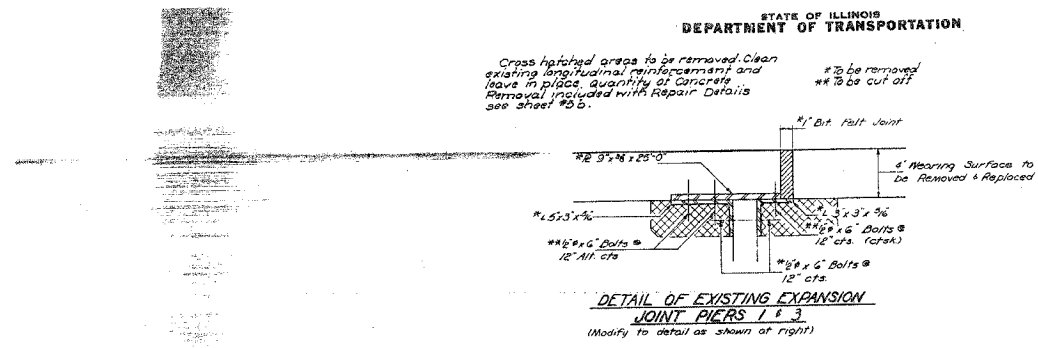
DATE _____ DRAWN BY _____
CHECKED BY _____

PLOT DATE = 11/21/2006
FILE NAME = c:\p\projects\edl4189\plan\pof11d4189d.dgn
PLOT SCALE = 50.0000 / IN.
REFERENCE = REF#

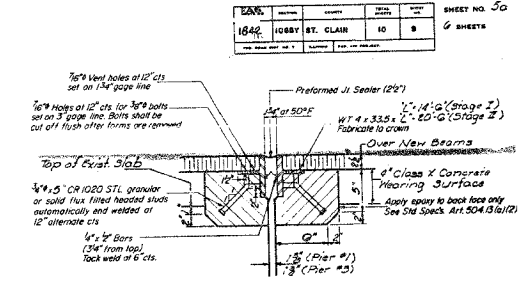
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	54BR-1	MADISON	61	50
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Cross hatched areas to be removed. Clean existing longitudinal reinforcement and leave in place. Quantity of Concrete Removal included with Repair Details see sheet #25.
#2 to be removed
#4 to be cut off

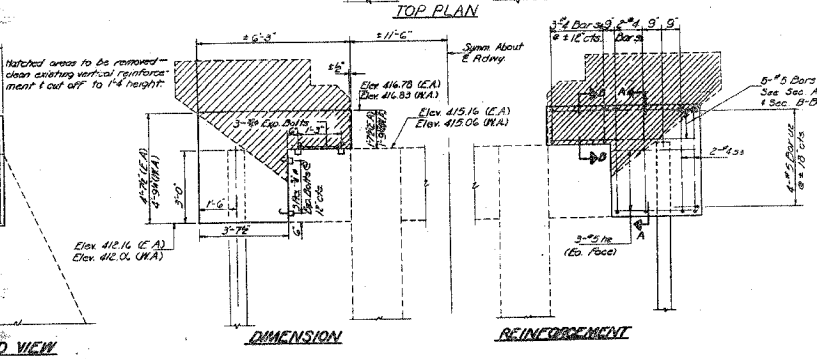
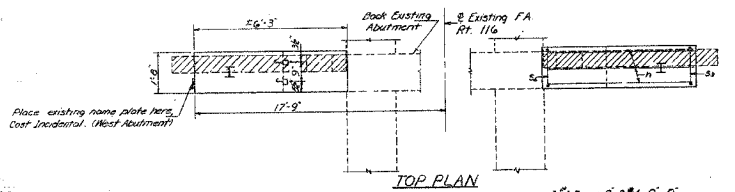


DETAIL OF EXISTING EXPANSION JOINT PIERS 1 & 3
(Modify to detail as shown at right)

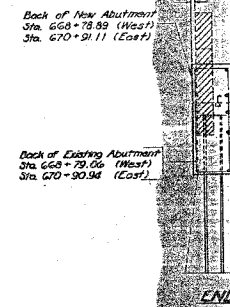


DETAIL OF MODIFICATION TO EXISTING EXPANSION JOINT PIERS 1 & 3

NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted. Pour monolithically with concrete wearing surf. See Elev of Beams Detail for transverse reinforcement. Quantity of Class 3 Concrete below top of existing slab included with Repair Details sheet #25.

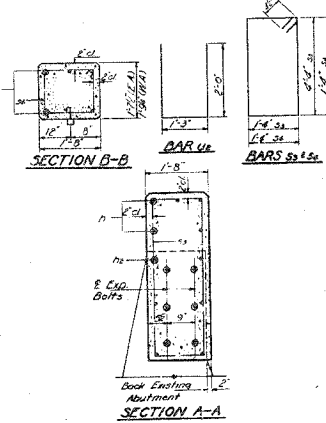


DIMENSION ELEVATION



DESIGNED BY S. T. Runkel	DATE Nov 13 1975
CHECKED BY C. E. Adams	APPROVED [Signature]
DESIGNED BY C. E. Adams	APPROVED [Signature]
CHECKED BY H. Lee	APPROVED [Signature]

PILE DATA
Type - Steel Pipe - 53
Capacity - Given by Refusal
Est. Length - E. Abut. - 28' W. Abut. - 42'
No. Piles - 4



THREE ABUTMENTS
BILL OF MATERIAL

Bar No.	Size	Length (ft)	Spaced
h	20	75	5'-11"
h2	24	75	3'-3"
33	16	48	12'-1"
34	12	48	6'-7"
42	16	45	5'-3"
Class 3 Concrete - Cu 196 8.3			
Concrete Reinforcement - Cu 196 8			
Reinforcement Bars - Lda 477			
Steel Plates (1/2" x 12" x 14") - Lda 140			
Expansion Bolts - Lda 3			

EAST & WEST ABUTMENTS
PART 1842 SECTION 106BR
ST. CLAIR COUNTY
STA 668+78.89

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
FAS ROUTE 1842
SECTION 106BR
ST CLAIR COUNTY
SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
DATE

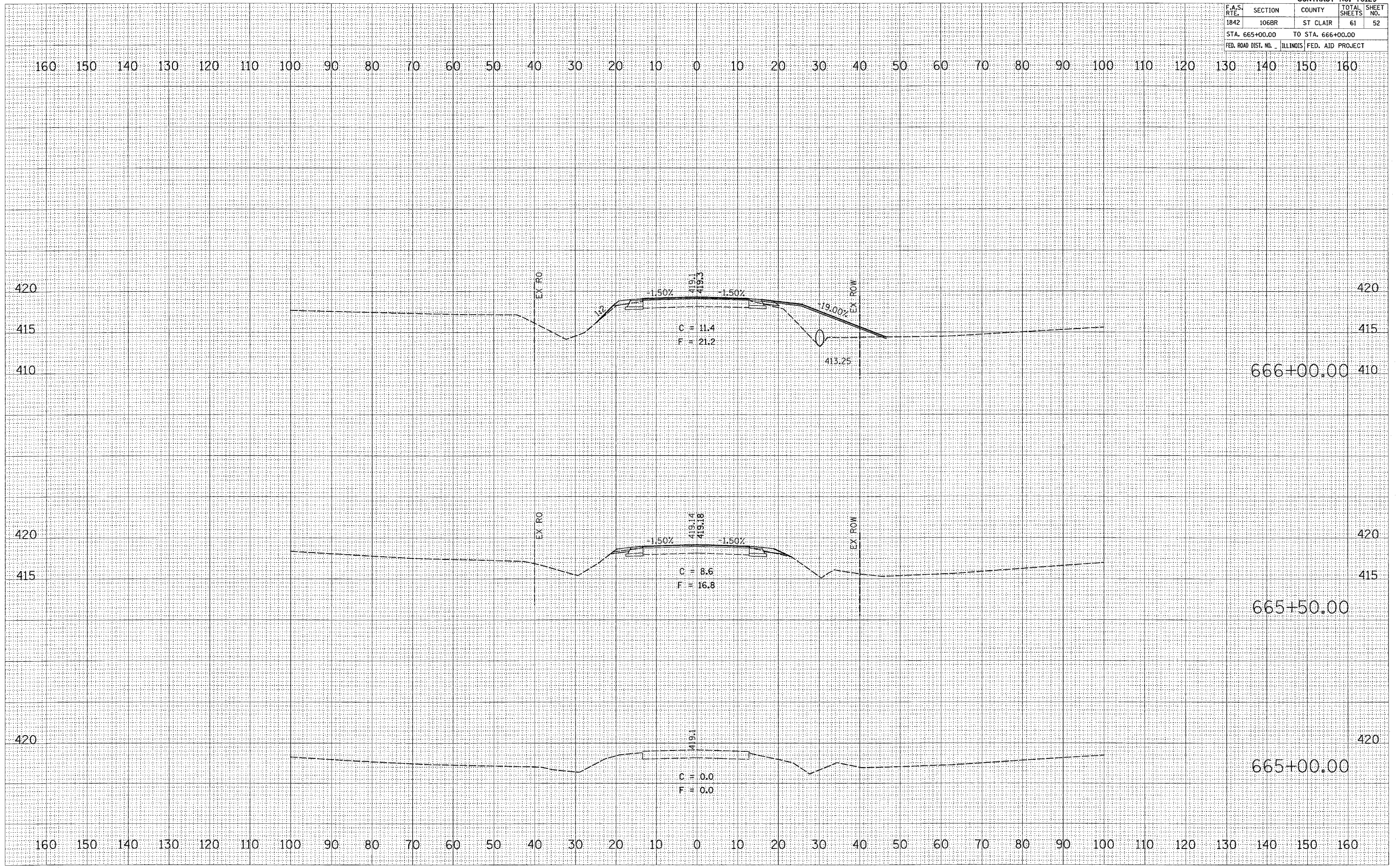
PLOT DATE = 11/6/2006
FILE NAME = c:\p\projects\1842\1842\plan\prof\11/6/06\1842.dgn
PLOT SCALE = 0.800000 7/31
REFERENCE = SHEET #

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	52
STA. 665+00.00		TO STA. 666+00.00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PL		
	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 12/15/2005
 FILE NAME = c:\pwork\proj\665\665.dwg
 PLOT SCALE = 1" = 40'
 USER NAME = galinh

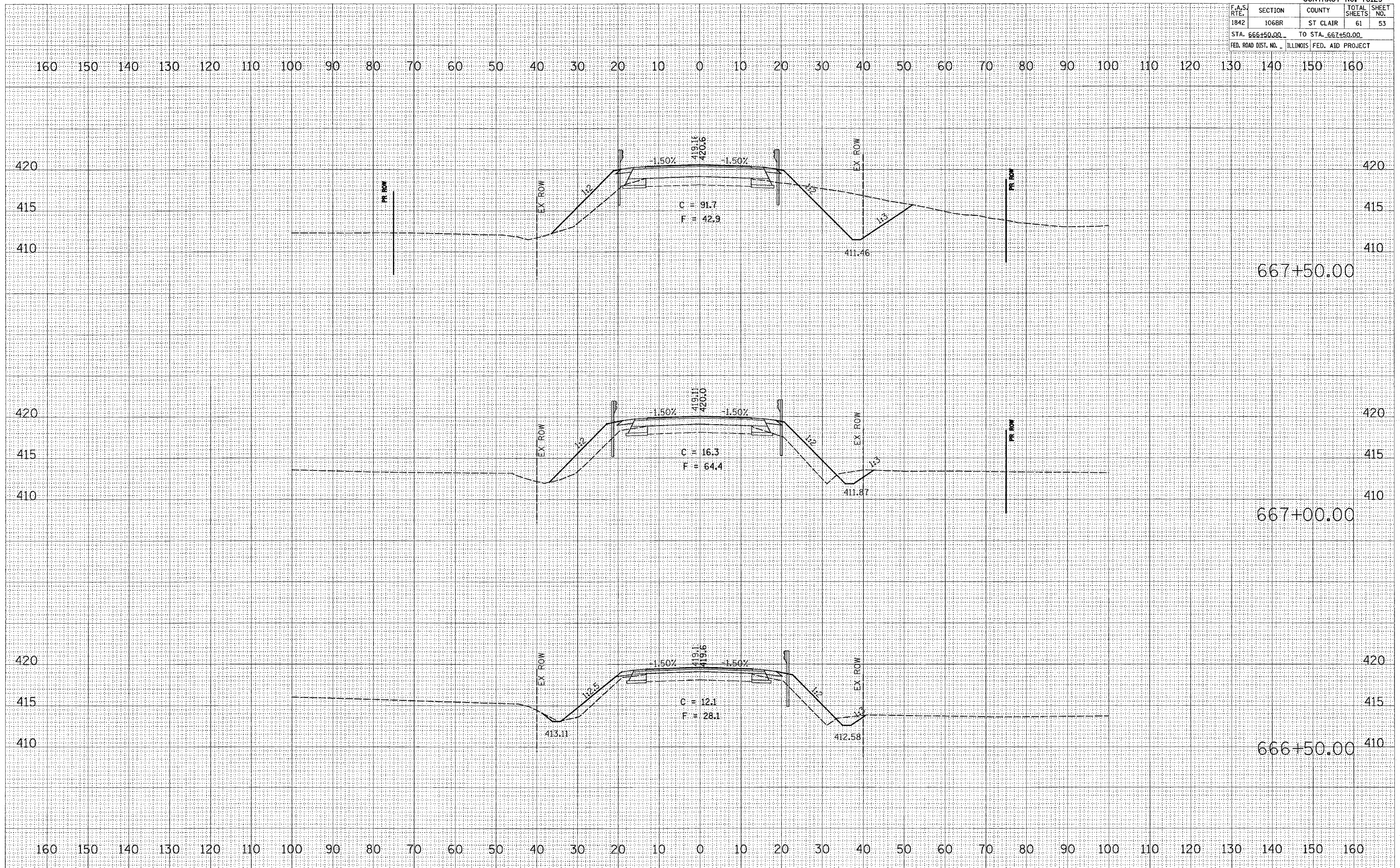


F.A.S. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	1068R	ST CLAIR	61	53
STA. 666+50.00		TO STA. 667+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = 12/15/2006
 USER NAME = galinh

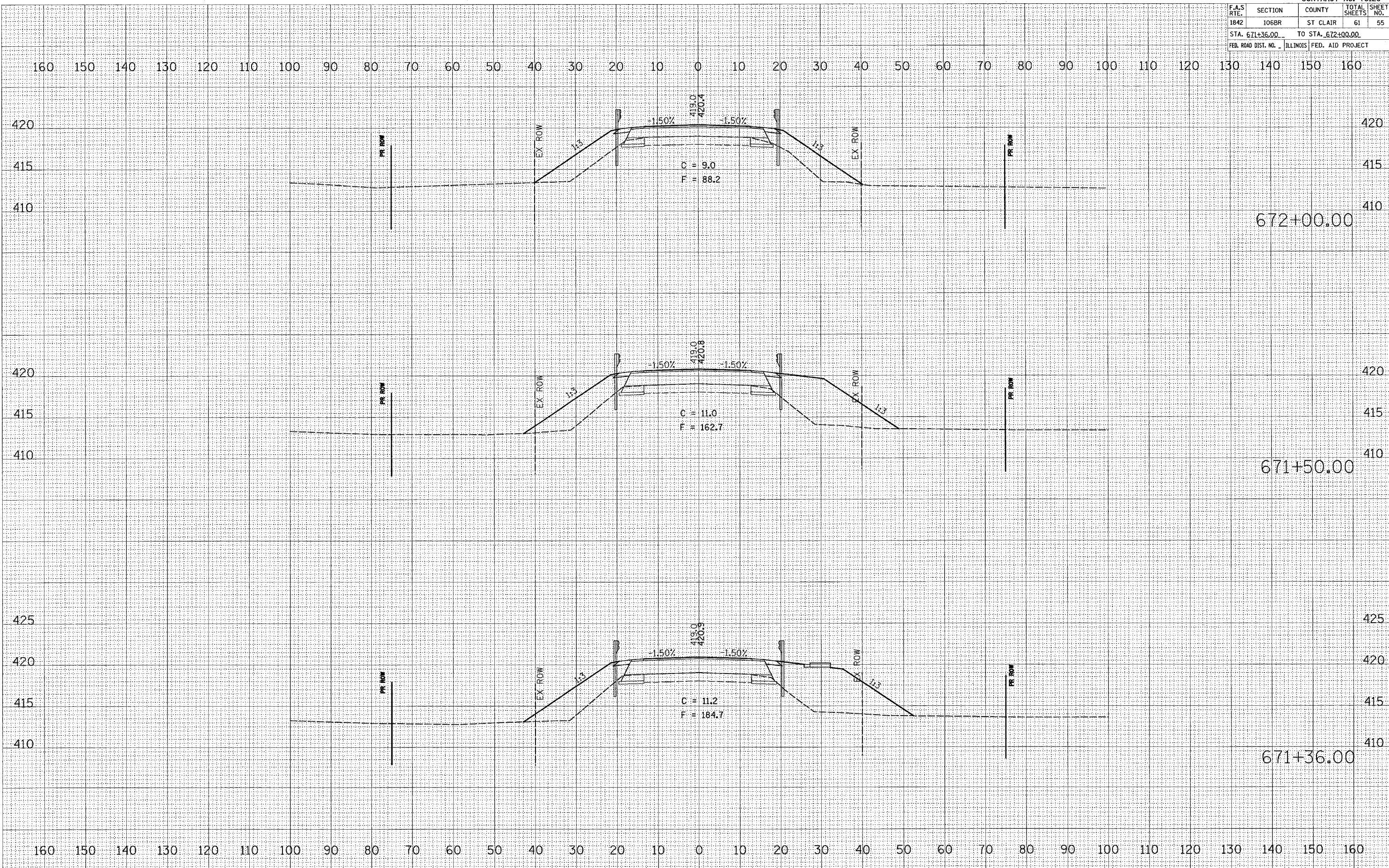


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	55
STA. 671+36.00		TO STA. 672+00.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY
 SURVEYED BY: _____
 DATE: _____
 NOTE BOOK NO.: _____
 AREAS CHECKED: _____

PLOT DATE = 12/11/2006
 FILE NAME = c:\pva\pva\1198\plan\ash18\pva18\pva18.dwg
 PLOT SCALE = 18.00000' / 1" IN.
 USER NAME = galinh

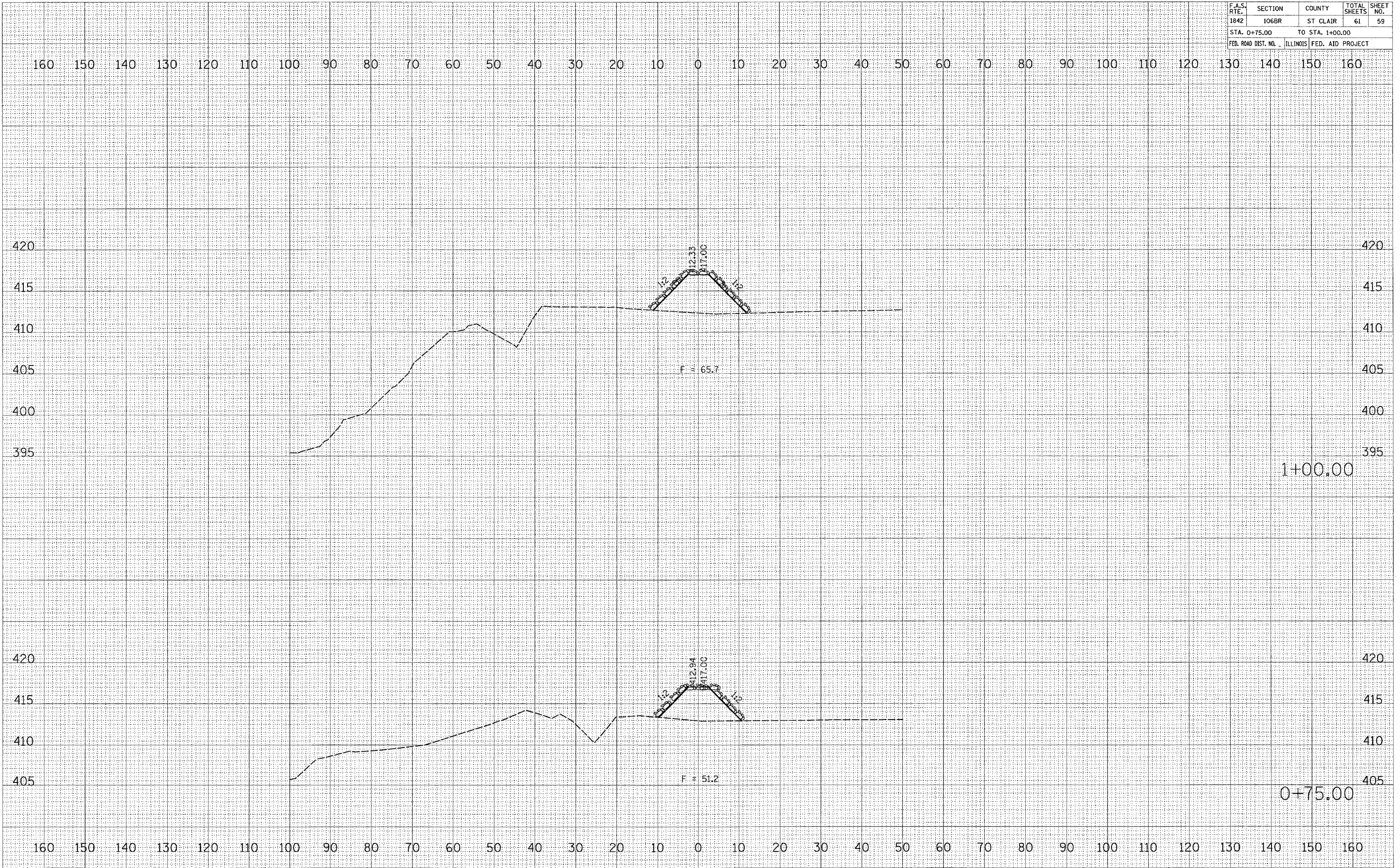


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	59
STA. 0+75.00		TO STA. 1+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

PLOT DATE = 12/18/2006
 FILE NAME = c:\pro\secta\red148\p\ar\wash\03\p\gn BOOK
 PLOT SCALE = 10.0000' / IN.
 USER NAME = gblnh

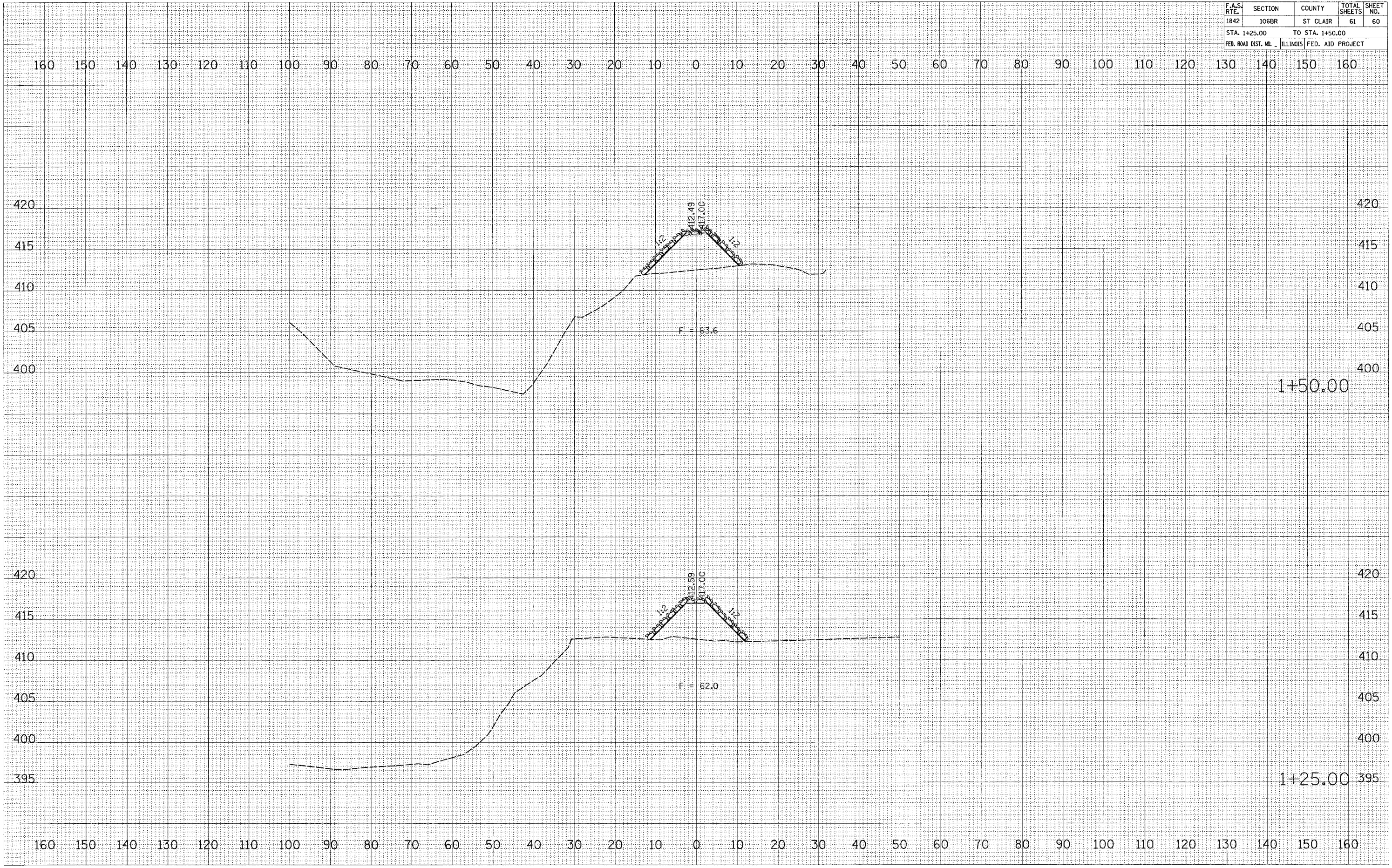


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	60
STA. 1+25.00		TO STA. 1+50.00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
NO. _____	BY _____	_____
NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____

ORIGINAL SURVEY	SURVEYED	DATE
NO. _____	BY _____	_____
NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____

PLOT DATE = 12/15/2006
 PLOT SCALE = 1" = 40.00'
 USER NAME = gpl/hh



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1842	106BR	ST CLAIR	61	61
STA. 1+62.50		TO STA. 1+75.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

PLOT DATE = 12/15/2006
 FILE NAME = 121506075
 PLOT SCALE = 0.0000 / IN.
 USER NAME = gahnh

