

98960

FAP R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	1

D-97-038-97

102 Total Sheets

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

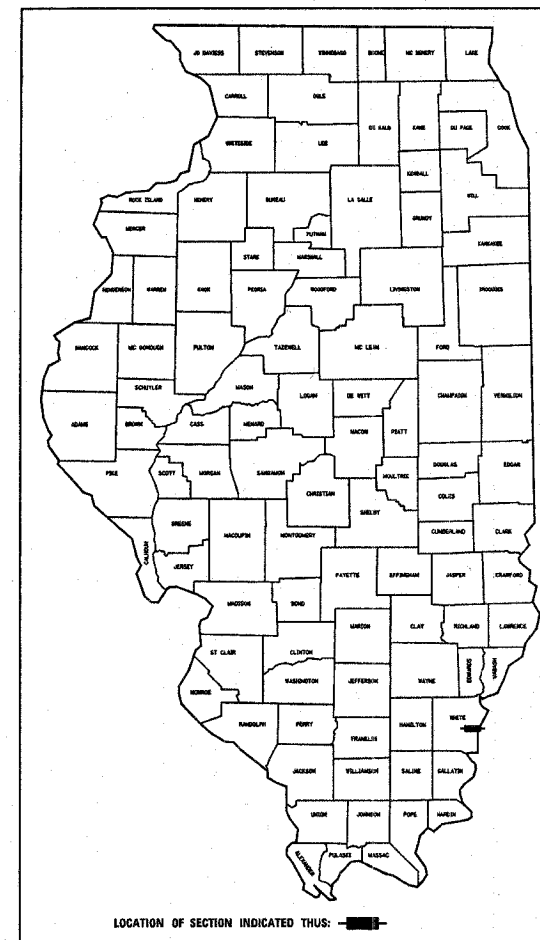
PLANS FOR PROPOSED
FEDERAL HIGHWAY PROJECT

FAP ROUTE 857
SECTION 101BR-6
PROJECT: BRF-0857(006)
WHITE COUNTY

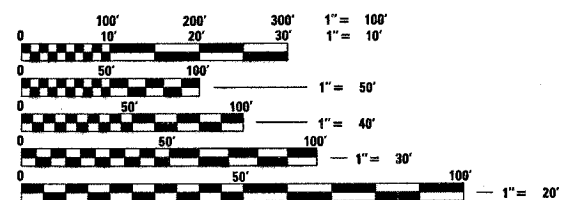
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FAP ROUTE 857
SECTION 101BR-6
WHITE COUNTY
STR. #097-0071

FOR INDEX OF SHEETS SEE SHEET NO. 2



DESIGN DESIGNATION-0185 (25)
ARTERIAL 5.45 (FD-200)
ADT: 1016 (2007)



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

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

CONTRACT NO. 98960

TOWNSHIP : PHILLIPS

GROSS LENGTH = 1300 FEET = 0.246 MILES
NET LENGTH = 1300 FEET = 0.246 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10-19 20 06
Christie M. Reed
DISTRICT ENGINEER

ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION
February 2, 20 07
Eric E. Hearn
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 20 07
Milton R. Sees, P.E.
DIRECTOR, DIVISION OF HIGHWAYS

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10/4/2006
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PROJECT ENGINEER : BILL STANLEY
SQUAD LEADER : JEFF DAVISON
DESIGNER : JEFF DAVISON
TELEPHONE : 217/342-3951 EX 314

FAP SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	2
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, LIST OF STANDARDS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS
7	RESURFACING SCHEDULE
8	MISCELLANEOUS QUANTITY SCHEDULES
9	RURAL ENTRANCE DETAIL & SCHEDULE
10-11	TREE REMOVAL PLAN
12-13	DETOUR PLAN AND PROFILE SHEETS
14-15	IL 14 PLAN AND PROFILE SHEETS
16-17	EROSION CONTROL PLAN
18-19	SEEDING PLAN
19A-19B	R. O. W. PLANS (TEMPORARY EASEMENT)
20-46	STRUCTURE PLANS S.N. 097-0071
47-52	STRUCTURE PLANS S.N. 097-2014
53	ENTRANCE DETAILS
54-55	DISTRICT DETAILS
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77-95	IL 14 CROSS SECTIONS
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STANDARDS IN THE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 100

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
420401-05	BRIDGE APPROACH PAVEMENT
503001-02	CONCRETE PARAPET SLIP-FORMING OPTION
515001-02	NAME PLATE FOR BRIDGES
542401	METAL END SECTION FOR PIPE CULVERTS
609001-02	BRIDGE APPROACH SHOULDER PAVEMENT AND DRAIN
609006-03	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-07	STEEL PLATE BEAM GUARDRAIL
630301-0	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631026-0	TRAFFIC BARRIER TERMINAL, TYPE 5 & 5A
631031-0	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
667101	PERMANENT SURVEY MARKERS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-03	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45 MPH
701331-02	LANE CLOSURE, 2L, 2W, WITH RUN-AROUND, FOR SPEEDS >= 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF REPLACING THE EXISTING STRUCTURE WITH A NEW BRIDGE ON INTERGAL ABUTMENTS. THIS WORK INCLUDES THE REMOVAL OF THE EXISTING BRIDGE, CONSTRUCTION OF BRIDGE APPROACH PAVEMENTS, GUARDRAIL, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE CONTRACTOR IS ADVISED THAT NO LOADS SHOULD BE PLACED ON BEAM 11 OF SPAN 1. ALSO, BEAM 7 OF SPAN 2 HAS BEEN RATED AT 15 TONS. THIS INFORMATION IS BASED OFF INFORMATION FROM THE SPRING 2006 BRIDGE INSPECTION.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS:

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 549 FEET OF YELLOW AND 4,390 FEET OF WHITE.

TEMPORARY PAVEMENT MARKING SHALL BE PAINT 4". THE TOTAL QUANTITY CONSISTS OF 525 FEET OF YELLOW AND 4,197 FEET OF WHITE.

TREE REMOVAL, ACRES SHALL INCLUDE THE REMOVAL OF ALL TREES, BRUSH, AND EXISTING FENCE INSIDE THE PROPOSED R.O.W. AREA.

ALL PLANTING MATERIALS SHALL BE SUPPLIED FROM A NURSERY SPECIALIZING IN MATERIAL FOR HABITAT RESTORATION. THE 3 GALLON CONTAINER GROWN TREES SHALL BE A MINIMUM OF 4 FEET IN HEIGHT. THE TREES WILL BE PLANTED ON A GRID SYSTEM OF 25' CENTERS TO AID IN THE MOWING AND MONITORING OF THE PLANT MATERIAL. THE RESIDENT ENGINEER IN COORDINATION WITH THE DISTRICT ENVIRONMENTAL TECHNICIAN, EUGENE BECCUE WILL STAKE LOCATION OF THE TREE PLANTINGS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF LATHES TWO WEEKS PRIOR TO THE SCHEDULED TREE PLANTING.

THE CONTRACTOR SHALL PROVIDE AN ENGINEERS FIELD OFFICE TYPE A IN ACCORDANCE WITH ARTICLE 670.02 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE AN ENGINEERS FIELD LABORATORY IN ACCORDANCE WITH ARTICLE 670.05 OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING HOT MIX ASPHALT BINDER COURSE, IL19.0, N90 REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE(S):	BINDER COURSE (ALL LIFTS)
AC/PG:	PG64-22
RAP%: (MAX)	10%
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 90 GYRATION SUPERPAVE
MIXTURE COMPOSITION:	IL-19.0
(GRADATION MIXTURE)	
FRICTION AGGREGATE:	N/A

THE FOLLOWING BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N90 MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE(S):	SURFACE COURSE & INCIDENTAL HOT MIX ASPHALT SURFACING
AC/PG:	PG64-22
RAP%: (MAX)	10%
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 90 GYRATION SUPERPAVE
MIXTURE COMPOSITION:	IL-9.5 OR IL-12.5
(GRADATION MIXTURE)	
FRICTION AGGREGATE:	C SURFACE

ANY SECTION CORNERS DISTURBED DURING CONSTRUCTION SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. A LIST OF SECTION CORNERS WITHIN THE PROJECT LIMITS IS CONTAINED IN THE SCHEDULE OF QUANTITIES.

ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEED. SEEDING SHALL BE CLASS 2, 4B AND 4B (MODIFIED), AS SHOWN IN THE PLANS IN ACCORDANCE WITH THE SPECIFIC PROVISIONS AND THE APPLICABLE ARTICLES OF SECTION 642 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES (Cont'd)

TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS DIRECTED BY THE ENGINEER.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF ACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123. THE UTILITY CONTACTS ARE AS FOLLOWS:

TELEPHONE: STAN RAWLINSON
CROSSVILLE COMMUNICATIONS
302 W. MAIN ST.
PO BOX 209
CROSSVILLE, IL 62827
(618) 966-2196

WATER: CHUCK CONNOR
VILLAGE OF CROSSVILLE
PO BOX 209
CROSSVILLE, IL 62827
(618) 966-2237

ELECTRICAL: ERIN HALLEY
WAYNE-WHITE COUNTIES ELECTRIC COOP
PO DRAWER E
FAIRFIELD, IL 62837
(618) 842 2196

AN ABANDONED WATERLINE IS LOCATED FROM STA. 166+50 TO STA. 179+50. THIS ABANDONED WATERLINE MAY BE IN CONFLICT WITH THE CONSTRUCTION OF EMBANKMENT AND THE A.R. BOX CULVERT AT STA. 175+78. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF THIS WATERLINE IN THE AREAS OF CONFLICT AND THE COST FOR THE REMOVAL WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION. WHEN EARTH EXCAVATION OPERATIONS BEGIN IN THIS AREA CHUCK CONNOR OF THE VILLAGE OF CROSSVILLE SHOULD BE NOTIFIED.

AN ESTIMATED QUANTITY OF AGGREGATE HAS BEEN INCLUDED FOR THE MAINTENANCE OF THE PRIVATE ENTRANCE AT RT STA. 167+25 AND THE FIELD ENTRANCE AT LT. STA. 180+00.

THE PAVEMENT SHALL BE CLEANED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS PRIOR TO THE PLACING OF THE BITUMINOUS OVERLAYS. AREAS TO BE PREPARED SHALL BE DETERMINED BY THE ENGINEER AND WILL INCLUDE:

1. BROKEN OR DELAMINATED CONCRETE
2. PATCHES OF TAR OR COLD MIX
3. EXISTING UNSTABLE PATCHES
4. DETERIORATED AREAS BEYOND EXISTING PATCHES
5. CENTERLINE JOINT

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE	2.05 TONS/CU. YD.
AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
AGGREGATE (PRIME COAT)	4 LBS./SQ. YD.
BITUMINOUS CONCRETE	112 LBS./SQ. YD./INCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS
STANDARDS IN THE PLANS
&
GENERAL NOTES**

SCALE: VERT.
HORIZ.
DATE

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 10/17/2006
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CONTRACT NO. 98960

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	3
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	

SUMMARY OF QUANTITIES			80% FED./20% STATE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				FAP 857 1000-2A	S.N. 097-0071 X081-2A
20100500	TREE REMOVAL, ACRES	ACRE	1.49	1.49	
20200100	EARTH EXCAVATION	CU YD	21243	21243	
20400100	BORROW EXCAVATION	CU YD	56271	56271	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	227.4		227.4
25000314	SEEDING, CLASS 4B	ACRE	1.16	1.16	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	734	734	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	485	485	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	485	485	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	6	6	
25001010	SEEDING, CLASS 2 (MODIFIED)	ACRE	3.02	3.02	
25002024	SEEDING, CLASS 4B (MODIFIED)	ACRE	1.02	1.02	
25100115	MULCH, METHOD 2	ACRE	10.3	10.3	
25100630	EROSION CONTROL BLANKET	SQ YD	4911	4911	
28000300	TEMPORARY DITCH CHECKS	EACH	3	3	
28000400	PERIMETER EROSION BARRIER	FOOT	3919	3919	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100107	STONE RIPRAP, CLASS A4	SQ YD	4339	3653	686
28200200	FILTER FABRIC	SQ YD	4339	3653	686
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	1801	1801	
31100800	SUB-BASE GRANULAR MATERIAL, TYPE A 9"	SQ YD	4557	4557	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	149	149	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	340	340	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	644.3	644.3	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	793	793	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	453	453	
40701961	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	SQ YD	1596	1596	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	25	25	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	222	222	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44.4	44.4	
44000100	PAVEMENT REMOVAL	SQ YD	222	222	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	779	779	
44000700	APPROACH SLAB REMOVAL	SQ YD	278	278	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1525	1525	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1

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*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
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DATE

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FAP DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	4
FED. ROAD DIST. NO. 7		BLINDS	FED. AID PROJECT NO.	

80% FED./20% STATE

SUMMARY OF QUANTITIES (Cont'd)			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		FAP 857 1000-2A	S.N. 097-0071 X081-2A
50104650	SLOPE WALL REMOVAL	SQ YD	449	449	
50105220	PIPE CULVERT REMOVAL	FOOT	96	96	
50200100	STRUCTURE EXCAVATION	CU YD	145		145
50300225	CONCRETE STRUCTURES	CU YD	178.4		178.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	550.2		550.2
50300260	BRIDGE DECK GROOVING	SQ YD	1353		1353
50300260	CONCRETE ENCASEMENT	CU YD	11.7		11.7
50300300	PROTECTIVE COAT	SQ YD	2012	228	1784
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	2417		2417
50800105	REINFORCEMENT BARS	POUND	61,960	61,960	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	147,140	147,140	
50800515	BAR SPLICERS	EACH	62		62
50901125	STEEL RAILING (TEMPORARY)	FOOT	240	240	
51201500	FURNISHING STEEL PILES HP10X57	FOOT	721		721
51202000	FURNISHING STEEL PILES HP14X102	FOOT	1339		1339
51202305	DRIVING PILES	FOOT	2060		2060
51203500	TEST PILE STEEL HP10X57	EACH	1		1
51204000	TEST PILE STEEL HP14X102	EACH	1		1
51300105	TEMPORARY BRIDGE COMPLETE	EACH	1	1	
51500100	NAME PLATES	EACH	2	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	268.7	268.7	
54202335	PIPE CULVERTS, TYPE 3, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 30"	FOOT	103	103	
54215547	METAL END SECTIONS 12"	EACH	4	4	
54215565	METAL END SECTIONS 30"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	80.8		80.8
60100945	PIPE DRAINS 12"	FOOT	202	202	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	130		130
60900115	TYPE B INLET BOX, STANDARD 609001	EACH	4	4	
60900515	CONCRETE THRUST BLOCKS	EACH	4	4	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1135	1135	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	300	300	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14		14
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	14		14
67100100	MOBILIZATION	L SUM	1	0.5	0.5

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DATE
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FAP R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	5
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

80% FED / 20% STATE

SUMMARY OF QUANTITIES (Cont'd)			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FAP 857 1000-2A	S.N. 097-0071 X081-2A
70100200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70103800	TRAFFIC CONTROL (SPECIAL)	L SUM	1	1	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	301	301	
70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	325	325	
70500660	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4950	4036	914
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	6		6
* 78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	5		5
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	289.3	289.3	
* A2002263	TREE, CARYA ILLINOENSIS (PECAN), CONTAINER GROWN, 3-GALLON	EACH	60	60	
* A2002163	TREE CARYA LACINIOSA (SHELLBARK HICKORY), CONTAINER GROWN, 3-GALLON	EACH	60	60	
* A2016820	TREE, QUERCUS SHUMARDII (SHUMARD OAK), CONTAINER GROWN, 3-GALLON	EACH	60	60	
* A2C050G3	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 3-GALLON	EACH	60	60	
* A2C060G3	TREE, QUERCUS PALUSTRIS (PIN OAK), CONTAINER GROWN, 3-GALLON	EACH	60	60	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	285.6	285.6	
* X2500200	TEMPORARY SEEDING	POUND	711	711	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1	
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1
X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1		1
X7050169	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)	EACH	6	6	
Z0016600	DETOUR ROADWAY REMOVAL	SQ YD	4354	4354	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	44		44
X0323082	DRAINAGE SCUPPERS, 05-33	EACH	6		6
* Z0054400	ROCK FILL	CU YD	157	157	
Z0065100	SETTLEMENT PLATFORMS	EACH	1	1	
© Z0076600	TRAINEES	HOUR	500	500	

* SPECIALTY ITEMS
© Y080

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE

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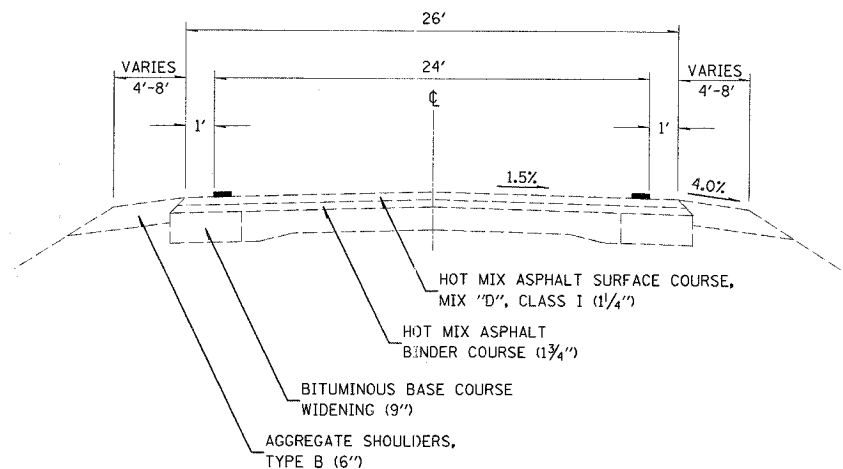
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CONTRACT NO. 98960

FAP ATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

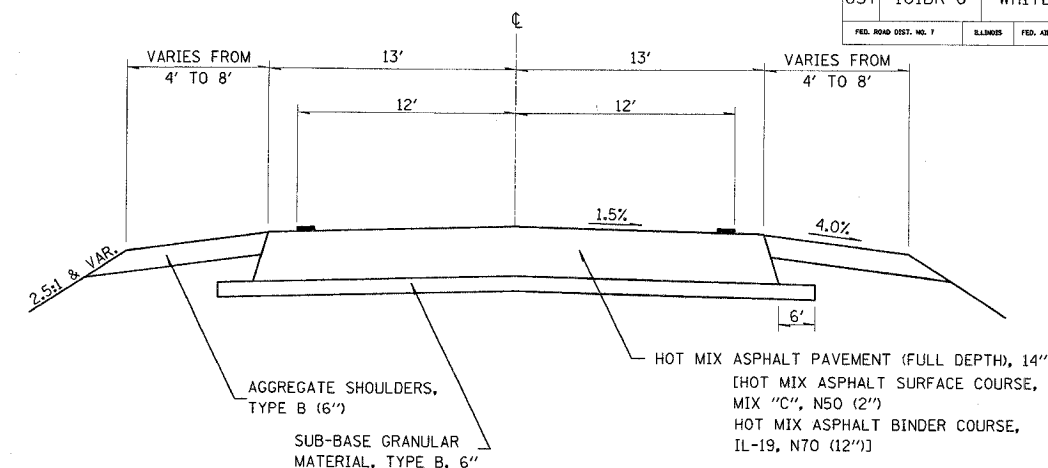
EXISTING ROADWAY TYPICAL SECTION

STA 166+50.00 TO STA 168+37.68
 STA 178+89.79 TO STA 185+00.00



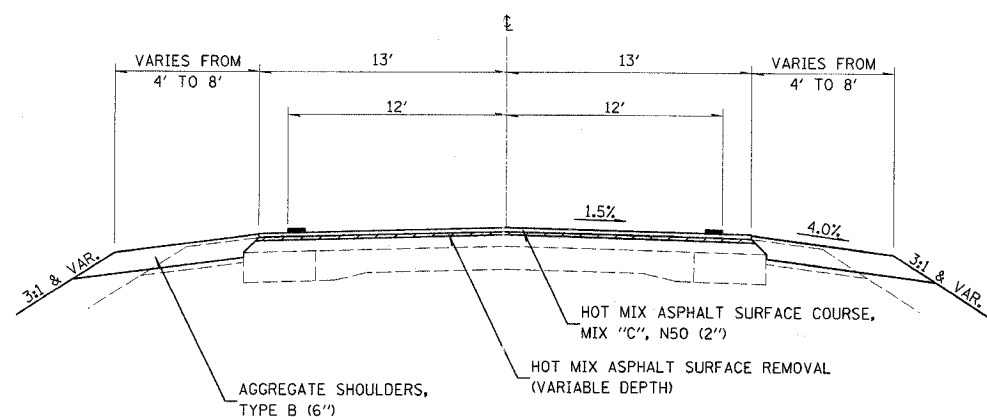
PROPOSED ROADWAY TYPICAL SECTION

STA 173+97.50 TO STA 179+50



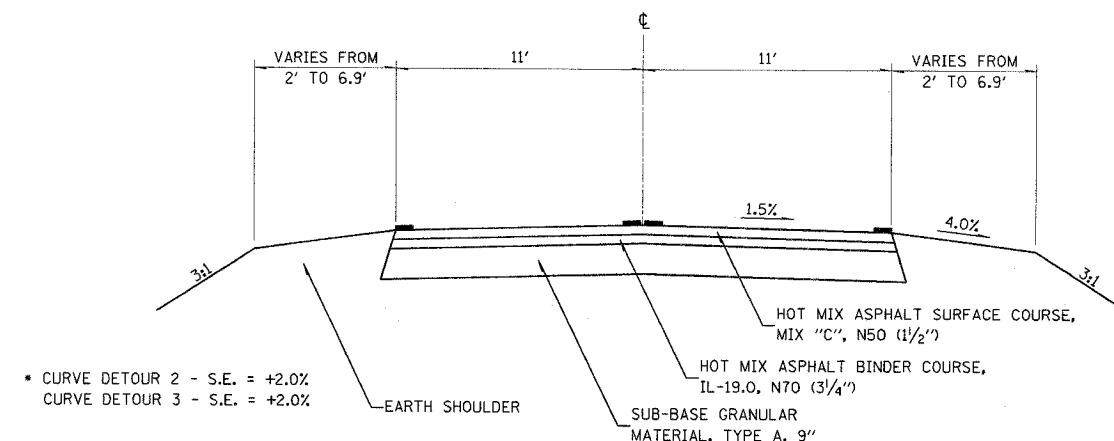
PROPOSED ROADWAY TYPICAL SECTION

STA 166+50 TO STA 166+78.40



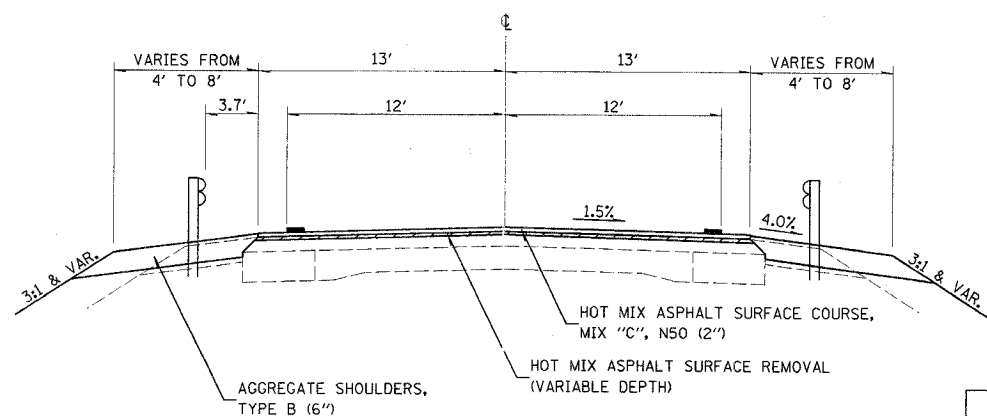
PROPOSED RUNABOUT TYPICAL SECTION

STA 100+00.00 TO STA 105+99.42
 STA 109+66.09 TO STA 112+05.82
 STA 114+55.82 TO STA 122+18.12



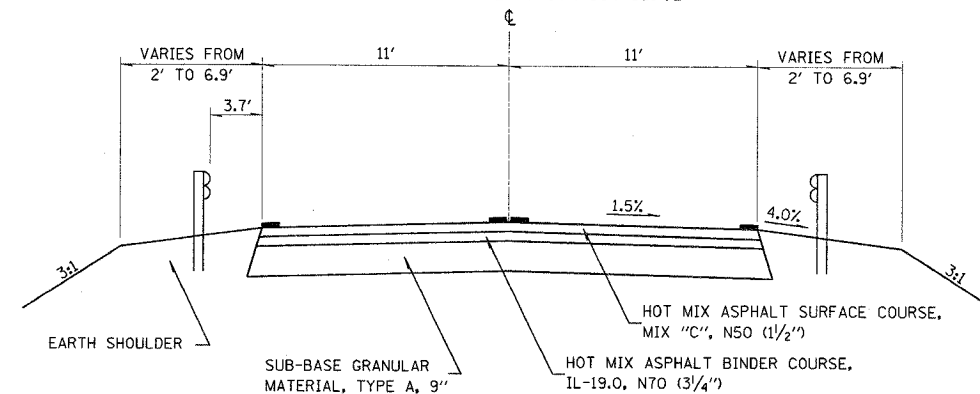
PROPOSED ROADWAY TYPICAL SECTION

STA 166+78.43 TO STA 169+19.50



PROPOSED RUNABOUT TYPICAL SECTION

STA 105+99.42 TO STA 107+23.00
 STA 108+43.01 TO STA 109+66.59
 STA 112+05.82 TO STA 114+55.82



STRUCTURAL DESIGN TRAFFIC YEAR 2027
 PV=1029 SU=33 MU=33
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
 P=0.5 S=0.5 M=0.5
 TRAFFIC FACTOR: ACTUAL TF 0.16 AC TYPE 20
 MINIMUM TF 3.79
 PC GRADE: BINDER 64 SURFACE 64
 SUBGRADE SUPPORT RATING: POOR
 IBR = 2.0 (STA. 173+97.50 TO STA. 179+50.00)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	7
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

PAVING SCHEDULE

STATION TO STATION	LENGTH	EXISTING PAVEMENT WIDTH	AREA	SUB-BASE GRANULAR MATERIAL, TYPE A, 6"	SUB-BASE GRANULAR MATERIAL, TYPE A, 10"	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	PAVEMENT REMOVAL	HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 14"	HOT MIX ASPHALT SURFACE COURSE, MIX C, N50	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70	INCIDENTAL HOT MIX ASPHALT SURFACING	FLEXIBLE CONNECTOR	BRIDGE APPROACH PAVEMENT	PROTECTIVE COAT	DETOUR ROAD REMOVAL	PAVEMENT MARKING REMOVAL	WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	PAINT PAVEMENT MARKING-LINE 4"	
																							LIN FT
DETOUR																							
STA. 100+00.00 TO STA. 100+46.10	46.10	26	133																				
STA. 100+46.10 TO STA. 100+79.83	33.70	1	4		6		0.4					0.3	0.8									103.72	
STA. 100+79.83 TO STA. 102+23.80	144.00	VARIABLE	156		164		15.6					13.1	28.4									323.93	
STA. 102+23.80 TO STA. 107+23.00	499.21	22	1220		1276		122					102.5	222.1									1123.23	
BRIDGE OMISSION																							
STA. 108+43.01 TO STA. 119+94.40	1151.39	22	2815		2942		281.5					236.4	512.2									2475.38	
STA. 119+94.40 TO STA. 121+38.20	143.80	VARIABLE	156		164		15.6					13.1	28.4									323.7	
STA. 121+38.20 TO STA. 121+71.90	33.70	1	4		6		0.4					0.3	0.7									75.83	
STA. 121+71.90 TO STA. 122+18.12	46.22	26	134																			103.99	
IL 14																							
STA. 162+25.00 TO STA. 166+50.00	425.00	26	1228			102.22													204.19			956.25	
STA. 166+50.00 TO STA. 169+19.50	269.50	26	779			388.52	77.9	779				87.2		25								606.38	
STA. 169+19.50 TO STA. 169+25.50	6.00	33.33	22			10.00				20					22.22							13.50	
STA. 169+25.50 TO STA. 169+55.50	30.00	33.33	111			0.00				41						111	114					67.50	
BRIDGE OMISSION																							
STA. 173+61.50 TO STA. 173+91.50	30.00	33.33	111			0.00																913.05	
STA. 173+91.50 TO STA. 173+97.50	6.00	33.33	22			10.00									22.22		111	114				67.50	
STA. 173+97.50 TO STA. 179+50.00	552.50	26	1596	1801		899.02	159.6		174	1596												1243.13	
STA. 179+50.00 TO STA. 184+20.00	470.00	26	1358			115.56													204.19			1057.50	
DETOUR REMOVAL																							
STA. 100+00.00 TO STA. 100+46.10	46.10	26	133																			35	
STA. 100+46.10 TO STA. 100+79.83	33.70	1	4																			20	
STA. 100+79.83 TO STA. 102+23.80	144.00	VARIABLE	156																			55	
STA. 102+23.80 TO STA. 107+23.00	499.21	22	1220																			1220	
BRIDGE OMISSION																							
STA. 108+43.01 TO STA. 119+94.40	1151.39	22	2815																			2815	
STA. 119+94.40 TO STA. 121+38.20	143.80	VARIABLE	156																			156	
STA. 121+38.20 TO STA. 121+71.90	33.70	1	4																			4	
STA. 121+71.90 TO STA. 122+18.12	46.22	26	134																			34	
PROJECT TOTALS					1801	4557	1525	673	0	779	234	1596	453	793	25	44.44	222	228	4354	408.38	224	4876	4938

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVING SCHEDULE

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

swartz-rw
 10/4/2006
 c:\projects\94675d\03897pa.dgn

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	8
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT NO.	

EARTHWORK SCHEDULE	EARTH EXCAVATION	UNSUITABLE OR UNSUITABLE MATERIAL	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE, WASTE (+) OR SHORTAGE (-)
LOCATION	CU YD	CU YD	CU YD	CU YD	CU YD
DETOUR					
100+00.00 TO 107+23.01	0.0	46.0	0.0	3736.4	-3736.4
107+23.01 TO 108+43.01	0.0	44.2	0.0	0.0	0.0
108+43.01 TO 122+00.00	0.0	398.9	0.0	15937.8	-15937.8
TOTALS =	0.0	489.0	0.0	19674.2	-19674.2
TEMP. P.E. LT. STA. 157+20.95					
0+00.00 TO 0+31.10	0.0	0.0	0.0	26.8	-26.8
TOTALS =	0.0	0.0	0.0	26.8	-26.8
TEMP. F.E. LT. STA. 180+00					
0+00.00 TO 1+27.30	0.0	0.0	0.0	729.6	-729.6
TOTALS =	0.0	0.0	0.0	729.6	-729.6
MAINLINE					
166+00.00 TO 169+93.00	0.0	104.0	0.0	190.9	-190.9
169+93.00 TO 173+18.00	0.0	0.0	0.0	0.0	0.0
173+18.00 TO 180+00.00	0.0	0.0	0.0	35649.6	-35649.6
TOTALS =	0.0	104.0	0.0	35840.5	-35840.5
TO BUILD DETOUR & MAINLINE I.L. 14					
0.0	0.0	593.0	0.0	56271.0	-56271.0
DETOUR REMOVAL					
163+00.00 TO 169+59.00	4292.4	0.0	24.7	24.7	4267.7
169+59.00 TO 170+39.00	0.0	0.0	4.5	4.5	-4.5
170+39.00 TO 183+50.00	16256.6	0.0	422.7	422.7	15833.9
P.E. LT. STA. 167+20.95					
0+00.00 TO 1+25.00	37.3	0.0	5.0	5.0	32.3
F.E. LT. STA. 180+00.00					
0+00.00 TO 2+25.00	64	0.0	7.0	7.0	57.0
TOTALS =	20650.3	0.0	463.9	463.9	20186.4
TO REMOVE DETOUR					
	20650.0	0.0	464.0	464.0	20186.0

SEEDING SCHEDULE	SEEDING, CLASS 2 (MODIFIED)	SEEDING, CLASS 4B	SEEDING, CLASS 4B (MODIFIED)	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	TEMPORARY SEEDING
STA. TO STA.	ACRE	ACRE	ACRE	POUND	POUND	POUND	POUND	ACRE	POUND
163+00.00 TO 170+00.00	1.61			257.60	193.20	193.20	3.20	3.22	183.50
174+00.00 TO 183+50.00	1.18			188.80	141.60	141.60	2.40	1.18	134.50
LT. 180+00.00, F.E.	0.23			36.80	27.60	27.60	0.40	0.46	26.00
166+50.00 TO 169+45.50		0.10						0.10	
169+45.50 TO 170+48.20		0.20						0.20	
170+88.30 TO 173+18.14		0.73						0.73	
178+50.00 TO 179+42.90		0.05						0.05	
180+58.70 TO 183+14.20		0.08						0.08	
168+44.90 TO 171+31.90			0.33	39.60				0.33	
173+31.10 TO 177+56.80			0.65	78.00				0.65	
181+61.70 TO 183+35.90			0.04	4.00				0.04	
100+00.00 TO 122+00.00				128.80				3.22	367.00
PROJECT TOTALS	3.02	1.16	1.02	734.00	362.40	362.40	6.00	10.26	711.00

swartzm
 10/4/2006
 c:\projects\94675d\d03897pa.dgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

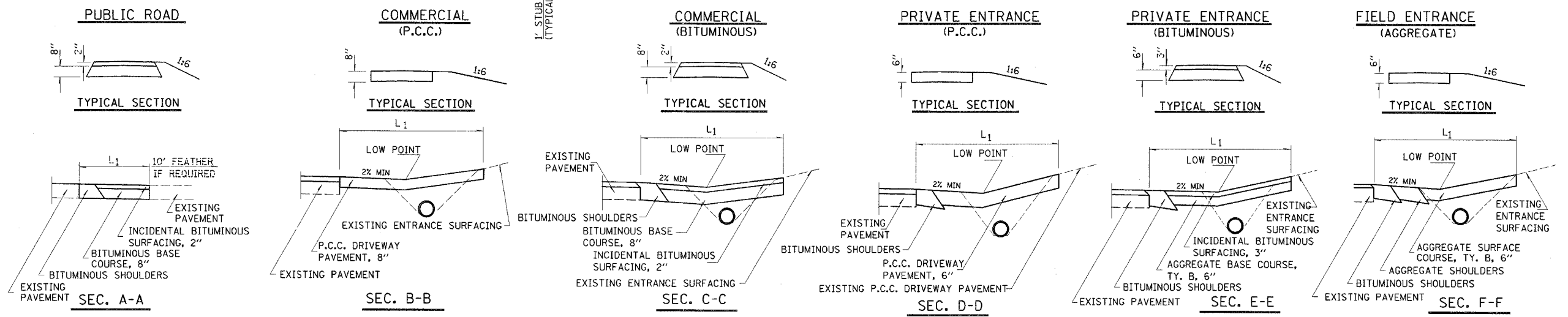
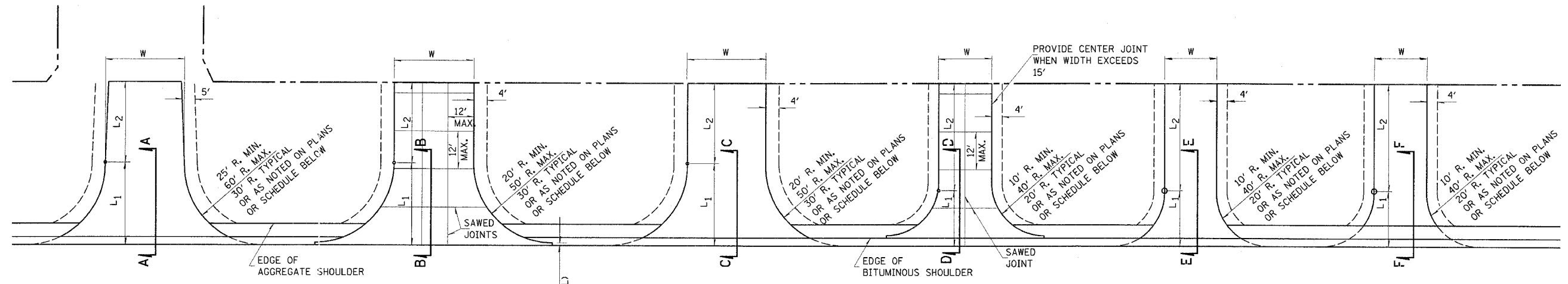
EARTHWORK SCHEDULE & SEEDING SCHEDULE

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

c:\projects\94675\d03897pa.dgn
 DATE
 R R E

CONTRACT NO. 98960				
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	9
FED. ROAD DIST. NO. 1		ALLIANCE	FED. AID PROJECT NO.	



RURAL ENTRANCE SCHEDULE						AGGREGATE BASE COURSE, TYPE B, 6"	BITUMINOUS BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT MIX ASPHALT SURFACING *	P. C. C. DRIVEWAY PAVEMENT	HOT MIX ASPHALT SURFACE COURSE	PIPE CULVERT
TYPE	SIDE/STATION	WIDE	LENGTH		RAD.	SQ YD	SQ YD	TON	TON	SQ YD	FOOT	
			L1	L2								
PE	LT 167+20.95	16	25	42	25	149			25			
PE	LT 167+00.00	VAR	VAR	VAR				250				
FE	LT 180+00.00	16	25	169	25			130				

NOTES

L₁ = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.

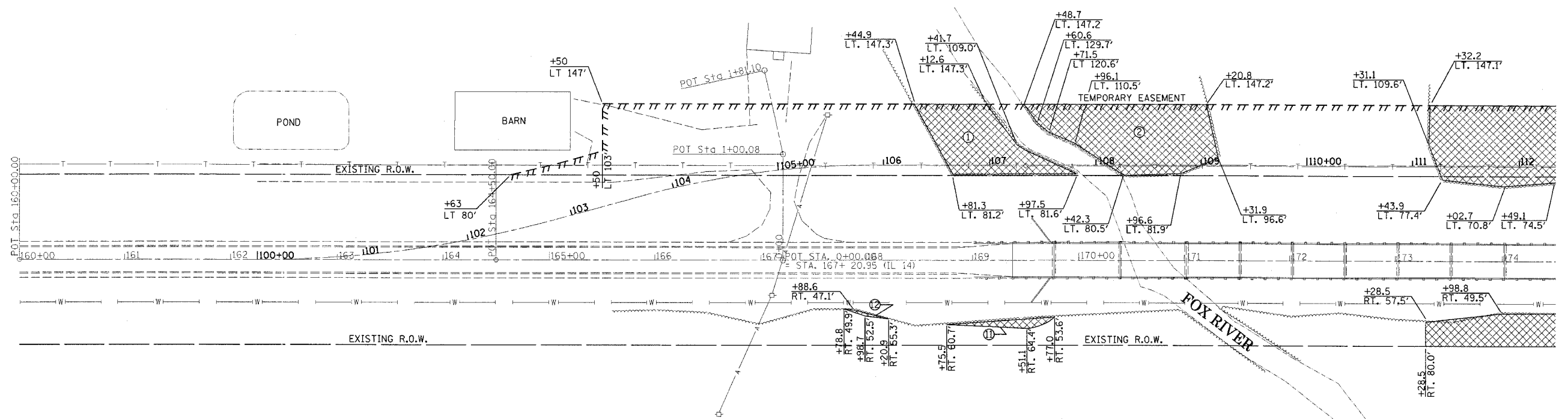
L₂ = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE

MATERIAL USED TO CONSTRUCT L₂ LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE BITUMINOUS SHOULDERS THROUGH COMMERCIAL ENTRANCES (BITUMINOUS) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE BITUMINOUS SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL BITUMINOUS SURFACING.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	10
STA. 160+00		TO STA. 174+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



TREE REMOVAL ACRES

- 1 = 5,372.08 SQ. FT.
 - 2 = 8,874.90 SQ. FT.
 - 3 = 29,821.13 SQ. FT.
 - 4 = 120.85 SQ. FT.
 - 5 = 115.44 SQ. FT.
 - 6 = 32.71 SQ. FT.
 - 7 = 884.79 SQ. FT.
 - 8 = 78.36 SQ. FT.
 - 9 = 1,630.44 SQ. FT.
 - 10 = 17,215.26 SQ. FT.
 - 11 = 497.16 SQ. FT.
 - 12 = 66.70 SQ. FT.
- TOTALS = 64,709.82 SQ. FT. = 1.49 ACRE

TREE REMOVAL, ACRES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

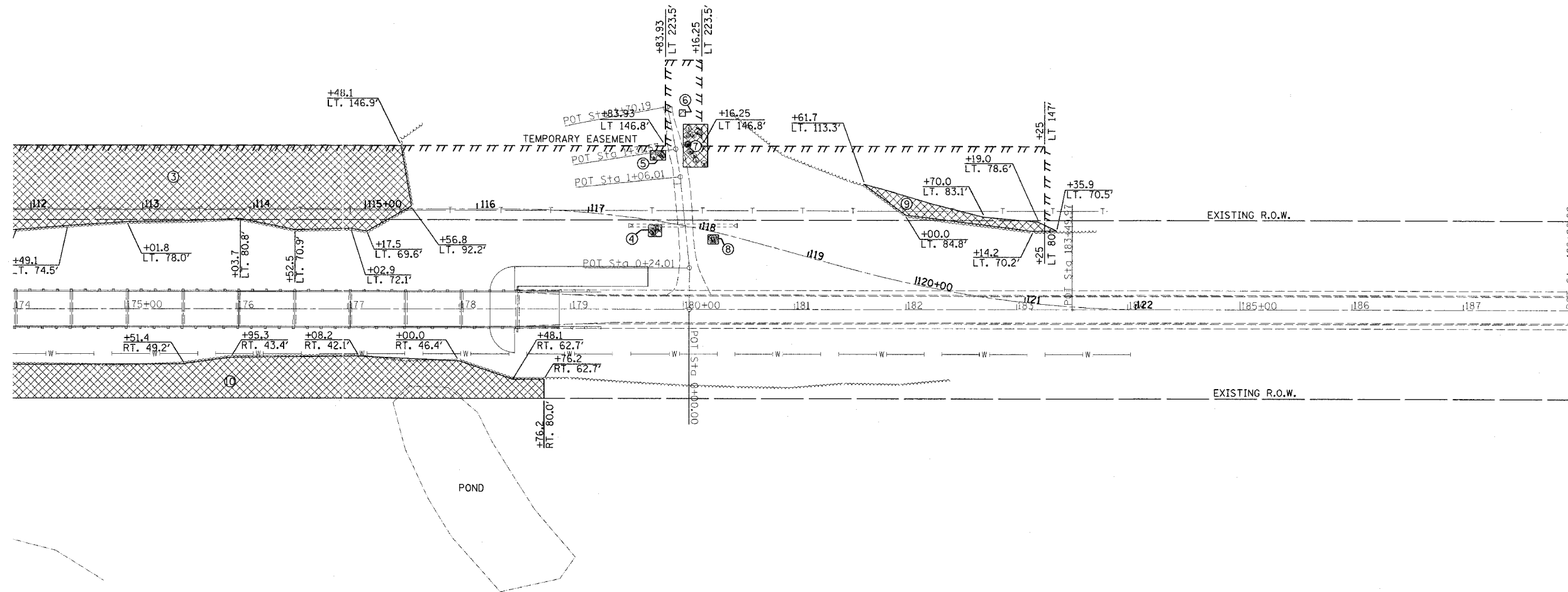
Tree Removal Plan

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 10/6/2006
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PLOT SCALE = 50.0000' / IN.
USER NAME = sdrstpr

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	11
STA. 174+00		TO STA. 188+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TREE REMOVAL, ACRES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Tree Removal Plan

SCALE: VERT.
DATE: HORIZ.

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	12
STA. 161+00		TO STA. 175+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTROL POINTS
 PC = 162+25.00
 PI = 163+67.37/LT. 0.12'
 PT = 165+02.99/LT. 37.47'

EXIST. CURVE DETOUR-1
 PI STA. = 101+4.52
 $\Delta = 15^\circ 21' 10''$ (LT)
 D = 5° 27' 25"
 R = 1,049.96'
 L = 141.52'
 T = 281.34'
 E = 9.49'
 $e =$ -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 100+00.00
 P.T. STA. = 102+81.34

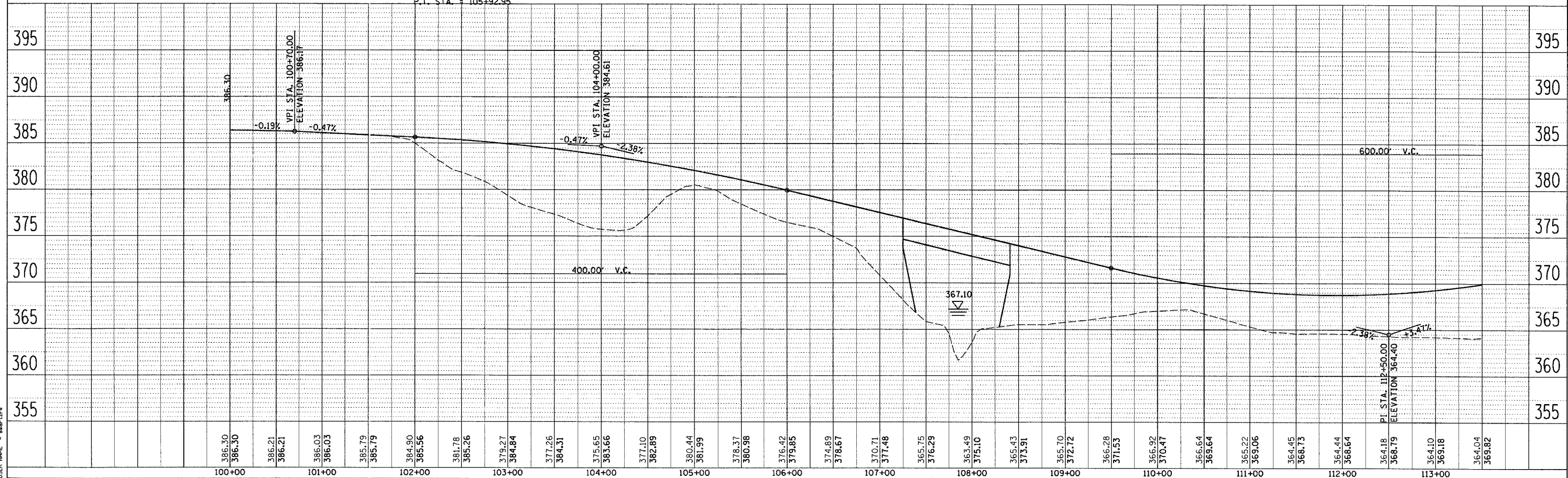
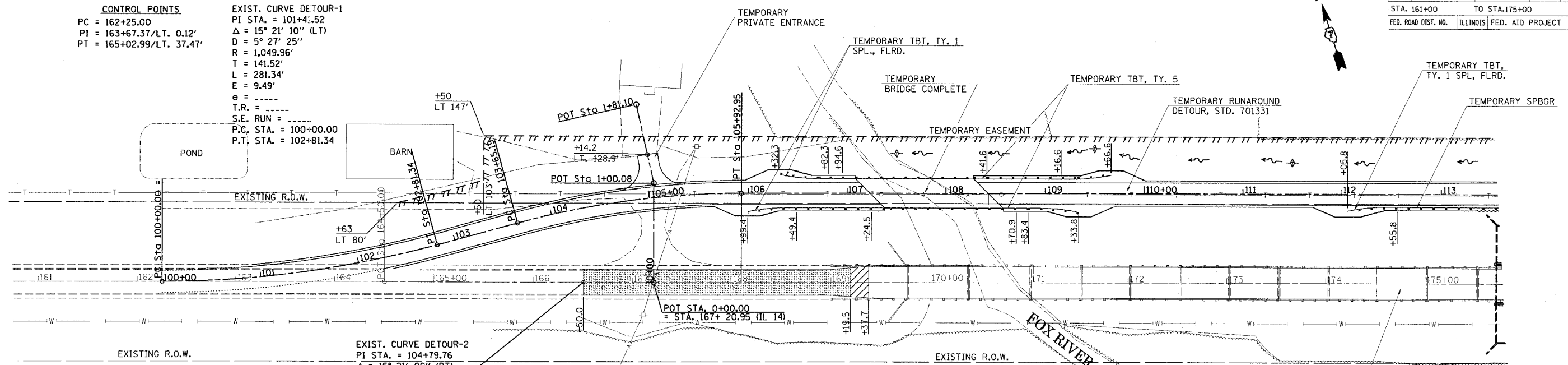
EXIST. CURVE DETOUR-2
 PI STA. = 104+79.76
 $\Delta = 15^\circ 21' 09''$ (RT)
 D = 6° 44' 26"
 R = 850.00'
 L = 114.57'
 T = 227.76'
 E = 7.69'
 $e = 2.0$
 T.R. = 103+08.38 TO 103+38.46
 106+19.68 TO 106+49.76
 S.E. RUN = 103+38.46 TO 103+78.56
 105+79.58 TO 106+19.68
 P.C. STA. = 103+65.19
 P.T. STA. = 105+92.95

SECTION 101BR-6
 BEGINS STA. 166+50

TBM #1 - NAIL IN TELEPHONE POLE
 STA. 169+50.12/LT. 89.17'
 ELEV. 368.91

STRUCTURE REMOVAL
 S.N. 097-0031
 17 SPAN, 878'-4 3/4"
 BK TO BK OF ABUTMENTS
 SPANS 1 & 2 PCC DECK
 BEAMS, SPANS 3 THRU
 17 STEEL PLATE BEAM
 GIRDER W/RCCP DECK
 0° SKEW

BITUMINOUS SURFACE REMOVAL
 PAVEMENT REMOVAL



PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NO.		

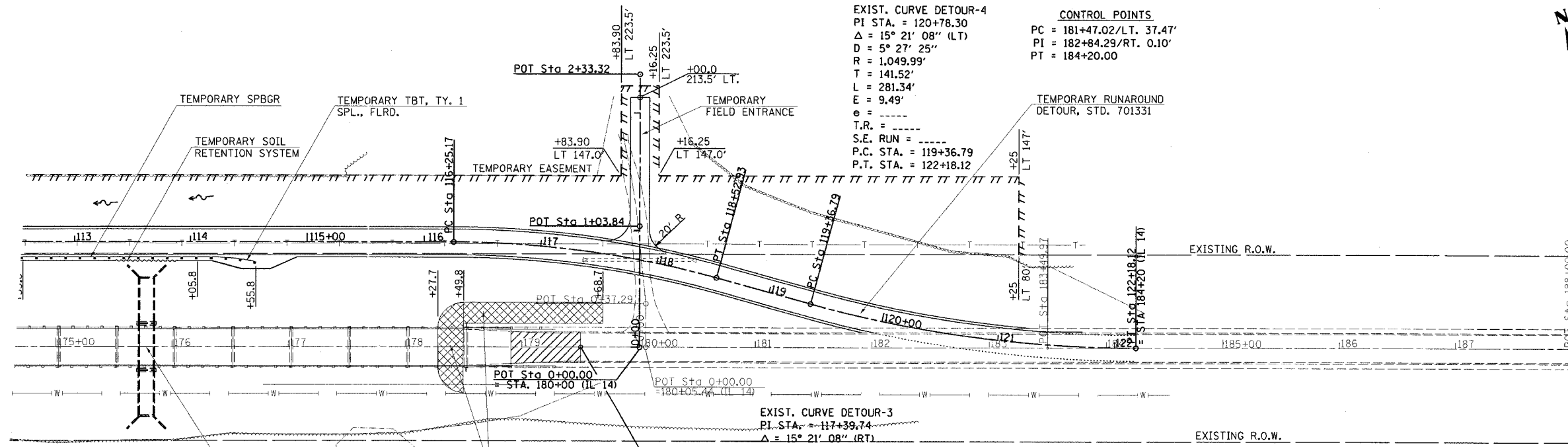
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SURVEYED		
GRADES CHECKED		
NO.		

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	13
STA. 175+00		TO STA. 188+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	REVISIONS	
	CAD FILE NAME	



EXIST. CURVE DETOUR-4
 PI STA. = 120+78.30
 $\Delta = 15^\circ 21' 08''$ (LT)
 $D = 5^\circ 27' 25''$
 $R = 1,049.99'$
 $T = 141.52'$
 $L = 281.34'$
 $E = 9.49'$
 $e = \dots$
 $T.R. = \dots$
 $S.E. RUN = \dots$
 $P.C. STA. = 119+36.79$
 $P.T. STA. = 122+18.12$

CONTROL POINTS
 $PC = 181+47.02/LT. 37.47'$
 $PI = 182+84.29/RT. 0.10'$
 $PT = 184+20.00$

EXIST. CURVE DETOUR-3
 PI STA. = 117+39.74
 $\Delta = 15^\circ 21' 08''$ (RT)
 $D = 6^\circ 44' 26''$
 $R = 850.00'$
 $T = 114.56'$
 $L = 227.75'$
 $E = 7.69'$
 $e = 2.0$
 $T.R. = 115+68.36$ TO $115+98.44$
 $118+79.66$ TO $119+09.74$
 $S.E. RUN = 115+98.44$ TO $116+38.54$
 $118+39.56$ TO $118+79.66$
 $P.C. STA. = 116+25.17$
 $P.T. STA. = 118+52.93$

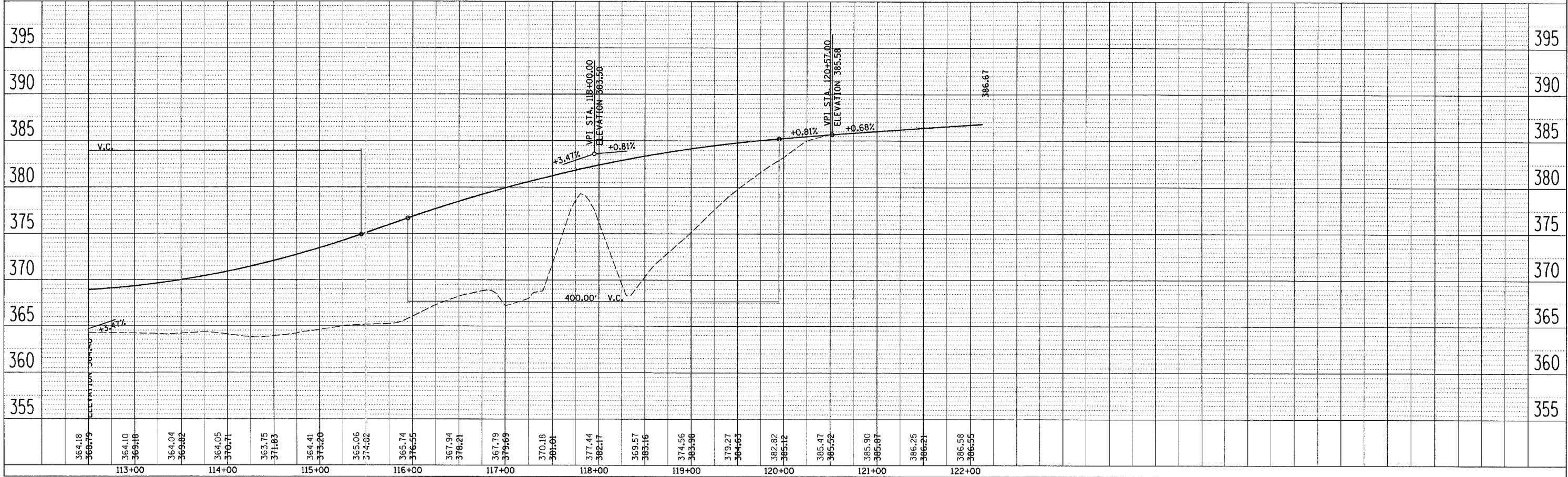
CONTROL POINTS
 $PC = 178+41.11/LT. 90.0'$
 $PI = 179+56.37/LT. 89.81'$
 $PT = 180+60.15/LT. 59.67'$

PAVEMENT REMOVAL

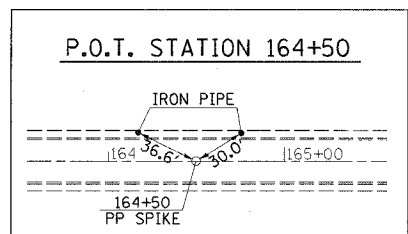
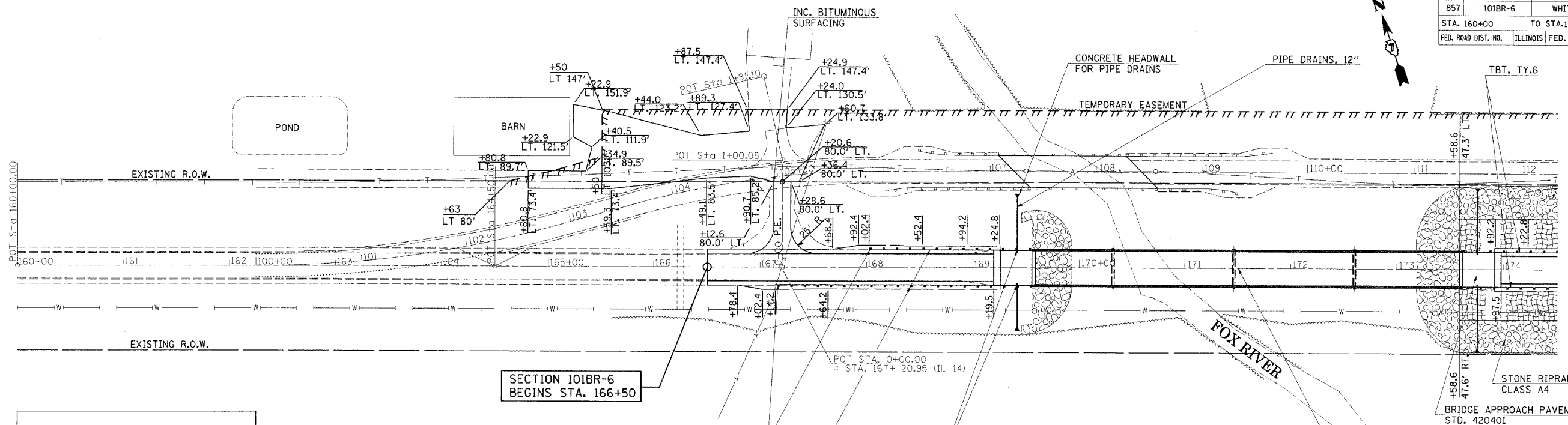
BM #2 - CHISELED "□" ON N.E. WINGWALL OF EXISTING STRUCTURE 097-0031
 ELEV. 384.69

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	REVISIONS	
	CAD FILE NAME	

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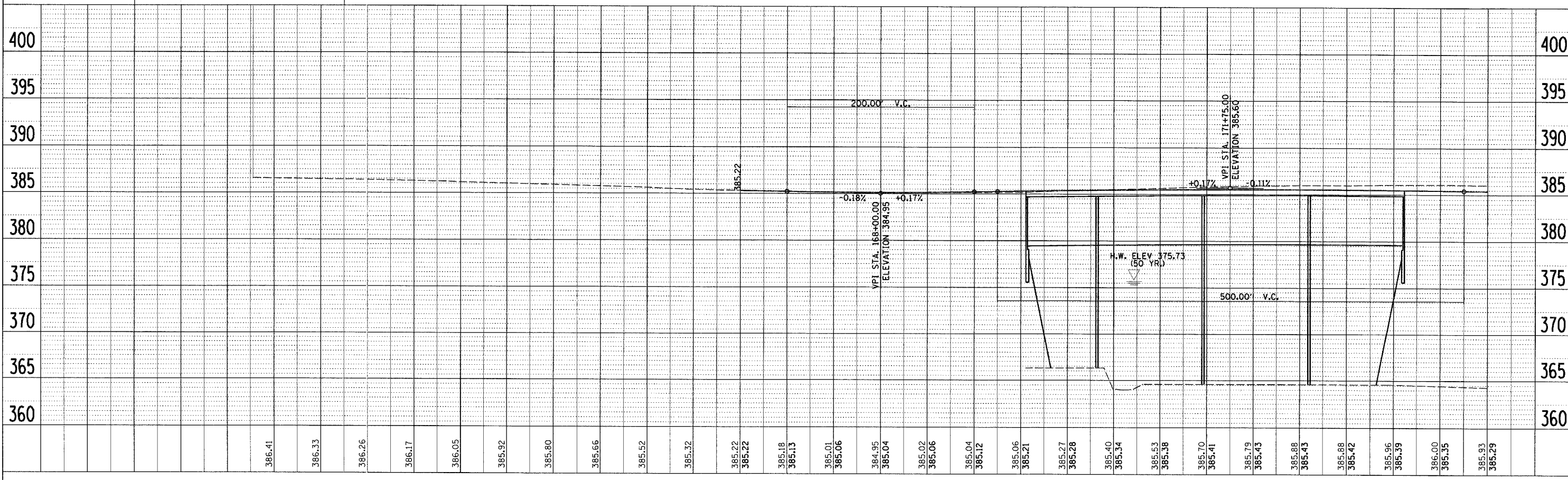
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	14
STA. 160+00		TO STA. 174+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE

PROFILE	SURVEYED	DATE

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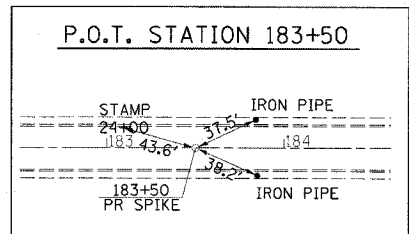
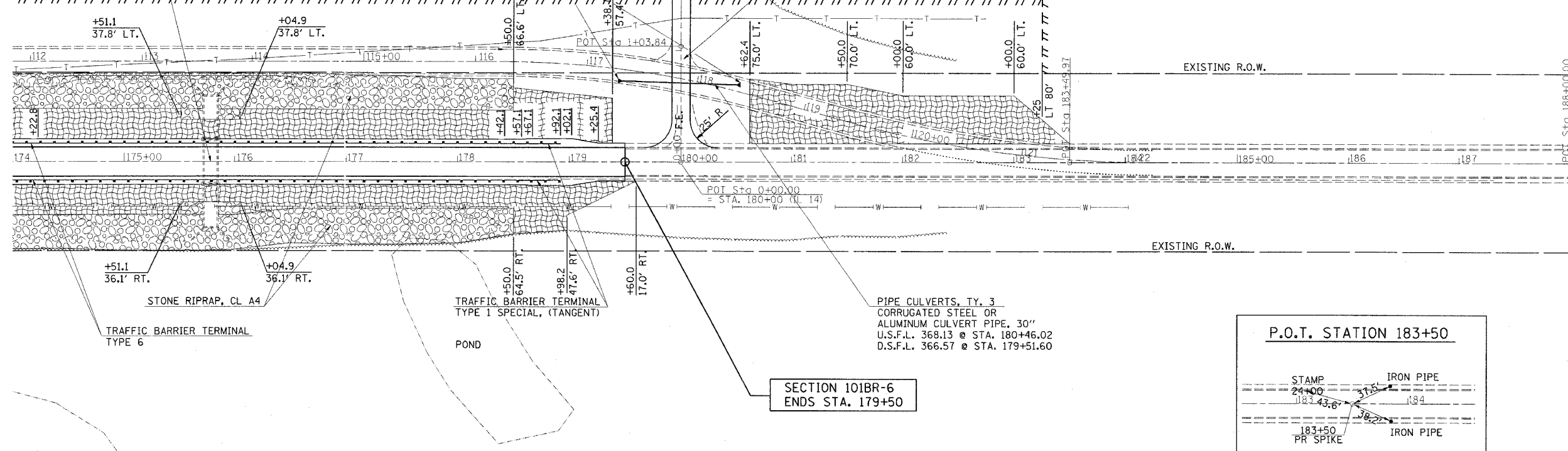


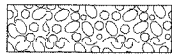

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	15
STA. 174+00		TO STA. 188+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



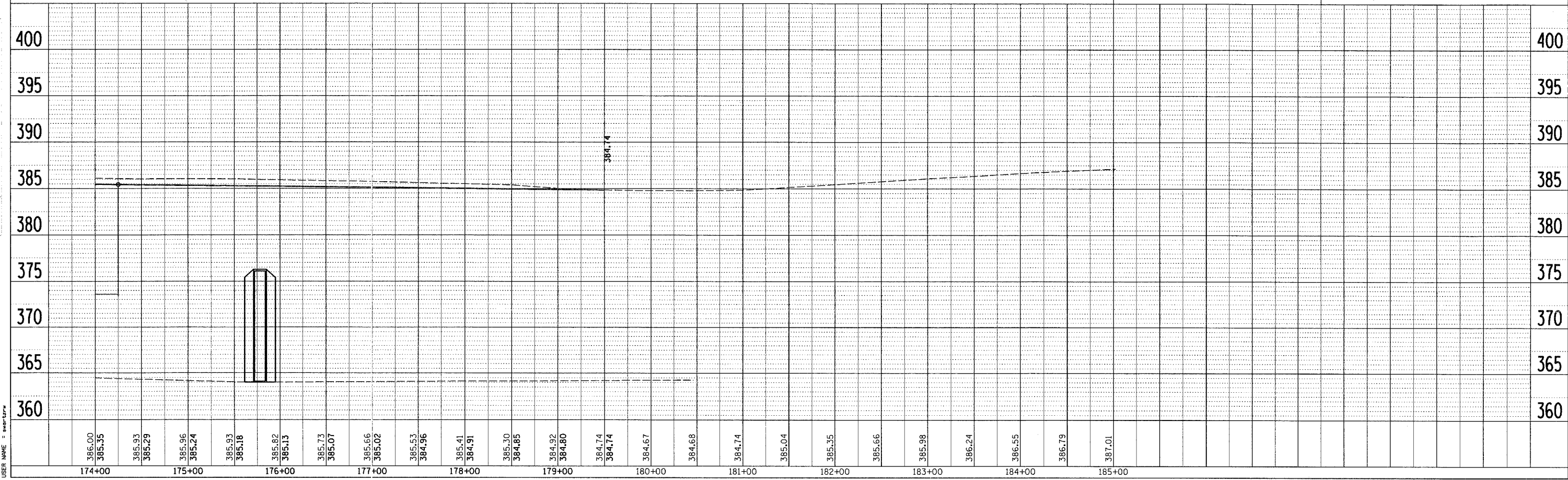
DATE: _____ BY: _____
 PLAN
 SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 NOTE BOOK NO. _____
 PLOTTED _____

STATION 175+78.00
 A.R. BOX CULVERT
 S.N. 097-2014
 12' x 12' CAST-IN-PLACE
 RCCP BOX CULVERT
 SEE SHEETS THRU



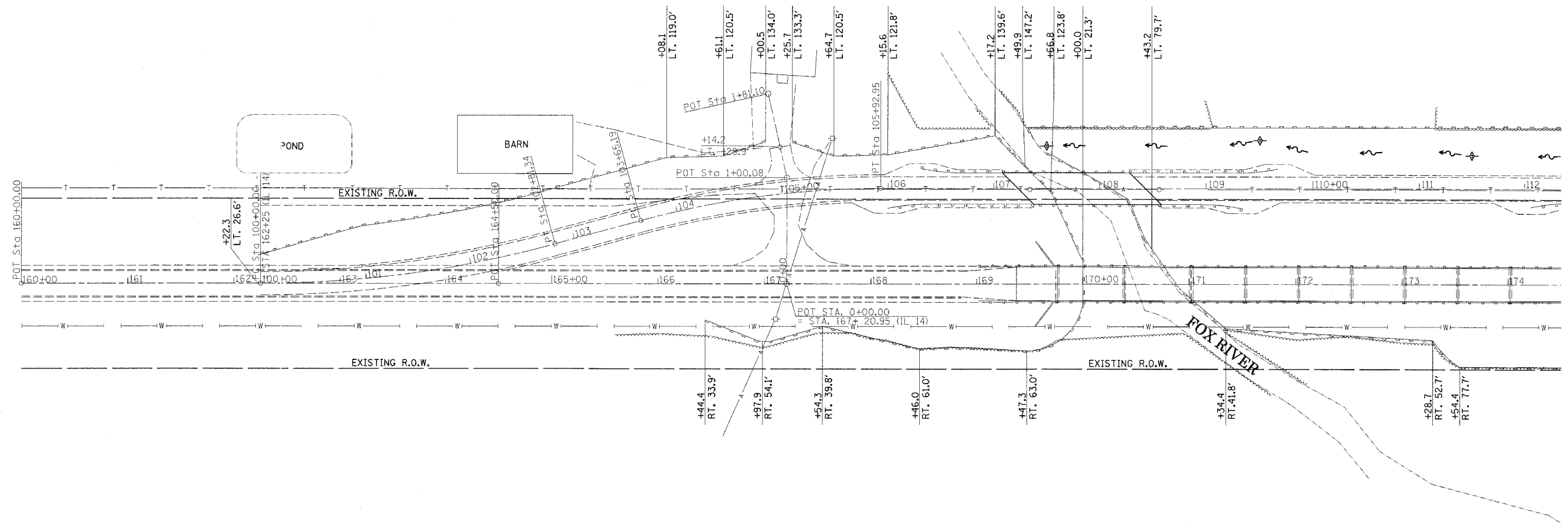
-  RIPRAP CL A4
-  EROSION CONTROL BLANKET

DATE: _____ BY: _____
 PROFILE
 SURVEYED _____
 GRADES CHECKED _____
 ELEV. NOTED _____
 NOTE BOOK NO. _____
 PLOTTED _____



PLOT DATE = 10/6/2006
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 USER NAME = snerdm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	100BR-6	WHITE	100	16
STA. 160+00		TO STA. 174+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- PERIMETER EROSION BARRIER
- ◆ TEMPORARY DITCH CHECKS, AGGREGATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Erosion Control Plan

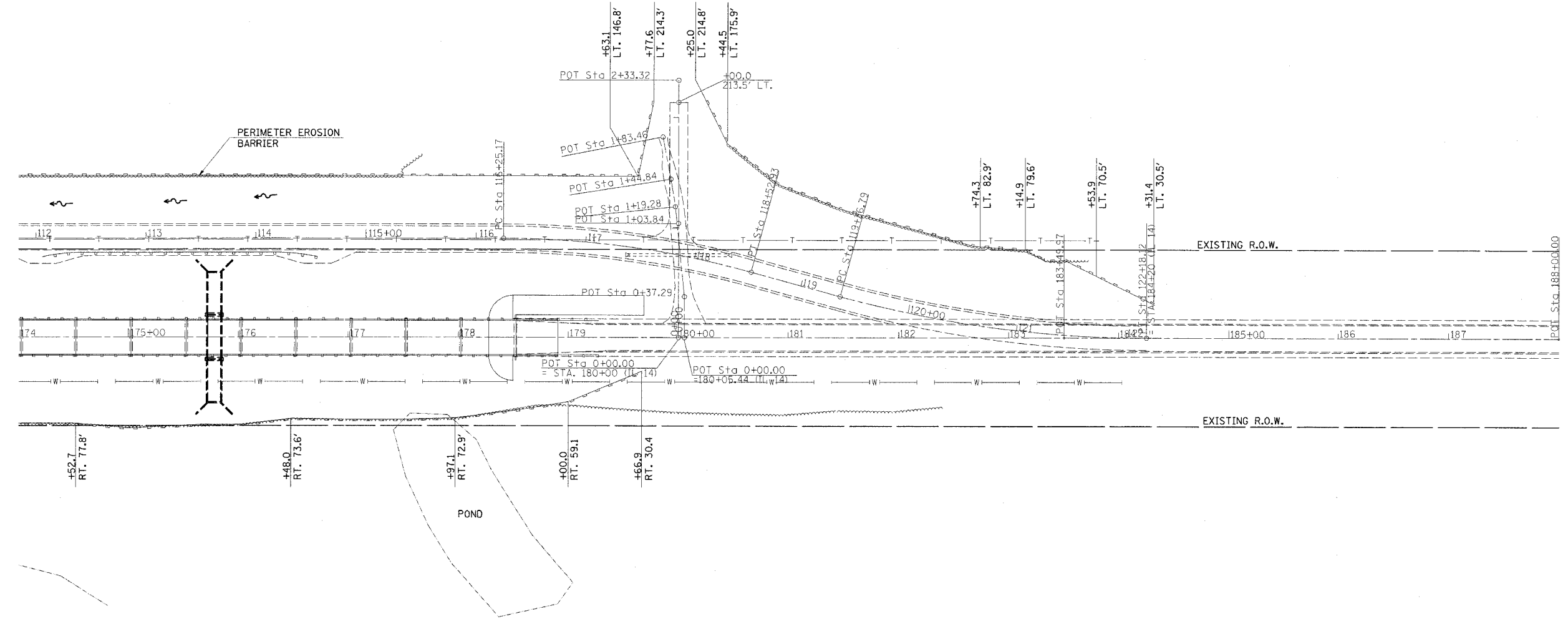
SCALE: VERT. _____
 HORIZ. _____

DATE _____

DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 10/6/2008
 FILE NAME = c:\projects\946754\version control.dgn
 PLOT SCALE = 50:1 (1/4" = 1')

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	(10)BR-6	WHITE	100	17
STA. 174+00		TO STA. 188+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS, AGGREGATE

REVISIONS	
NAME	DATE

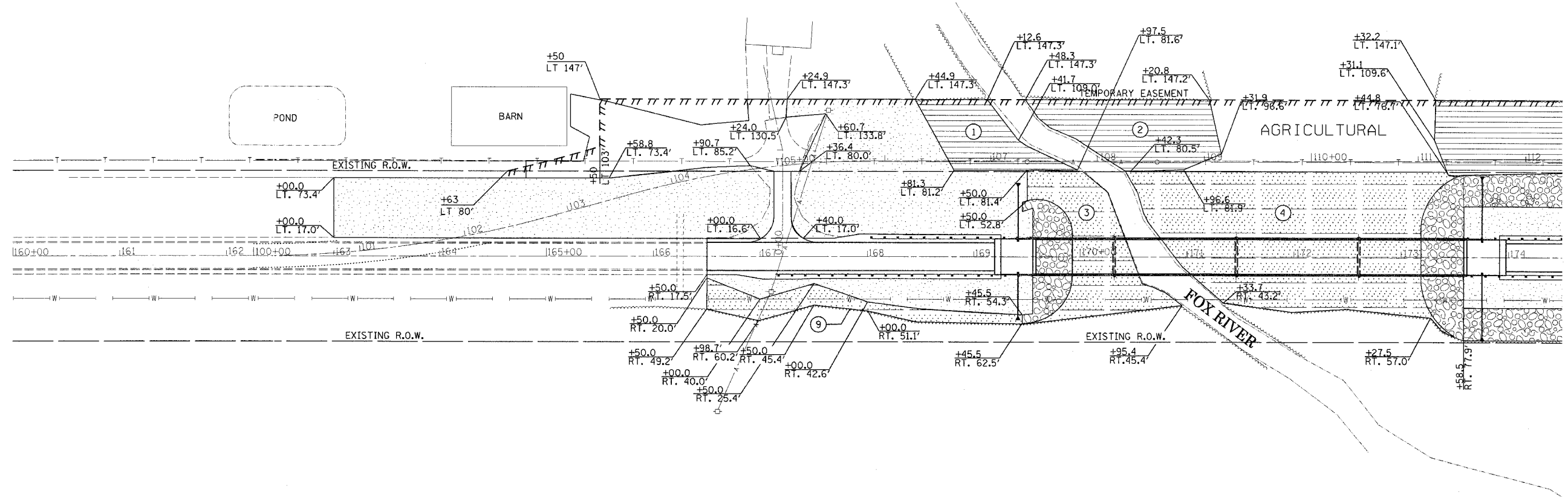
ILLINOIS DEPARTMENT OF TRANSPORTATION


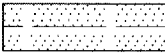

Erosion Control Plan

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

PLOT DATE = 12/16/2006
 FILE NAME = c:\projects\98960\98960\erocntrl.dgn
 PLOT SCALE = 50.0000' / IN.
 USER NAME = subdtrn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	(10)BR-6	WHITE	100	18
STA. 160+00.00		TO STA. 174+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



-  SEEDING, CLASS 2 (MODIFIED)
-  SEEDING, CLASS 4B
-  SEEDING, CLASS 4B (MODIFIED)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Seeding Plan

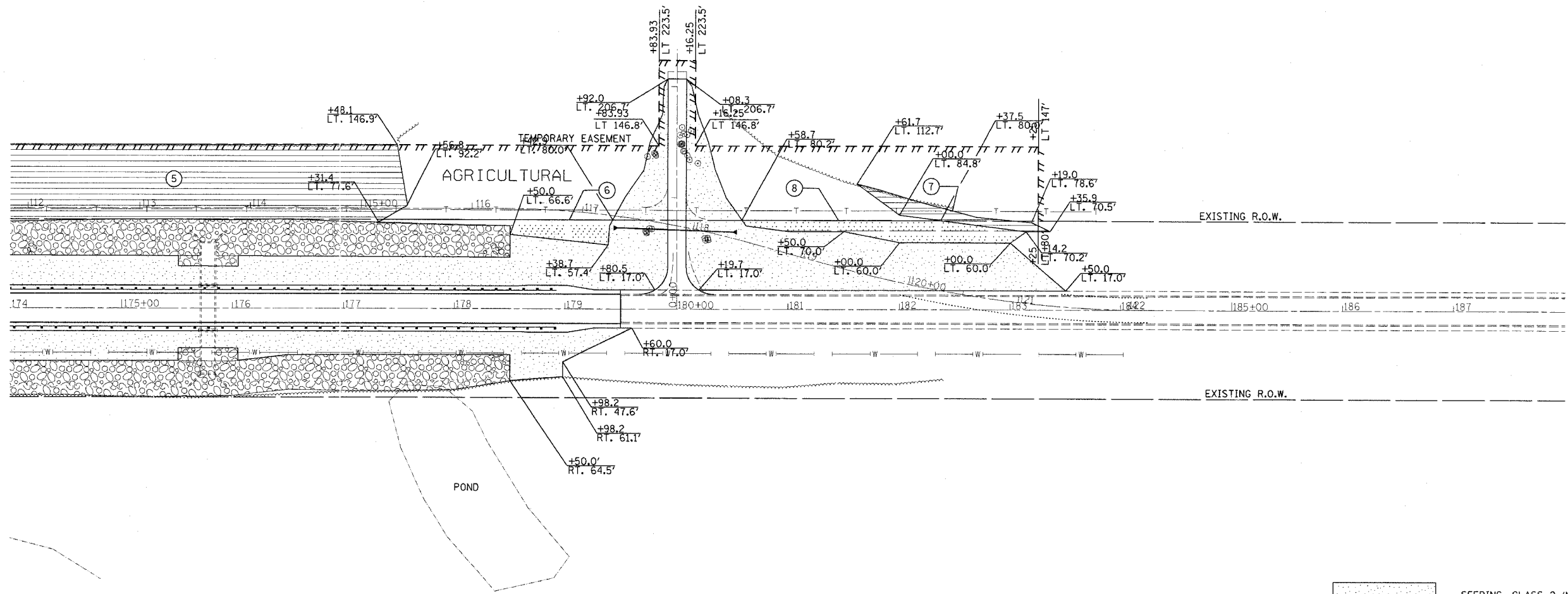
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 HORIZ. _____

DATE _____

DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 10/15/2005
 FILE NAME = S:\2005\1015\946756\seeding plan.dgn
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 USER NAME = mh0124

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	(10)BR-6	WHITE	100	19
STA. 174+00		TO STA. 188+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

Seeding Plan

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 11/13/2006
 FILE NAME = C:\Users\146756\seedling plan.dgn
 PLOT SCALE = 50.0000' / 1" IN.
 USER NAME = svr-1274

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 19 20 21 22 23 24 25 26 27 gw REV: 11/15/99
 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

c:\projects\894675\01000pa.dgn
 4/12/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY
RIGHT OF WAY PLANS
FOR PROPOSED
FEDERAL AID HIGHWAY
FAP ROUTE 857 (ILL 14)
SECTION 101BR-6
WHITE COUNTY
JOB NO R-97-010-00
CONTRACT NO 94675

SHEET 19A

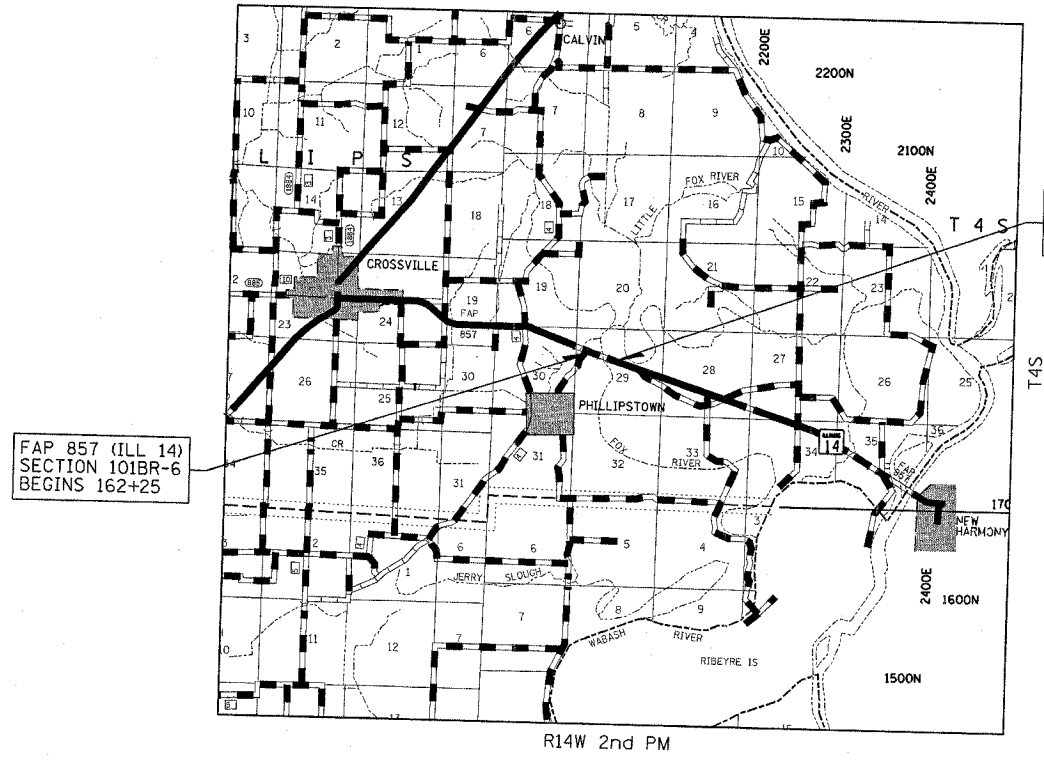
RTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	2	1

FED. ROAD DIST. NO. 7 DISTRICT FED. AID PROJECT NO.

DISTRICT 7



© DISTRICT HEADQUARTERS
 LOCATION OF SECTION INDICATED THUS:



NET LENGTH OF PROJECT= 2195 LIN. FT. = 0.416 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____
DISTRICT ENGINEER

EXAMINED _____ 20 _____
DISTRICT CHIEF OF PLATS AND PLANS

PASSED _____ 20 _____
DISTRICT LAND ACQUISITION ENGINEER

REVIEWED _____ 20 _____
CENTRAL BUREAU RIGHT OF WAY PLANS ENGINEER

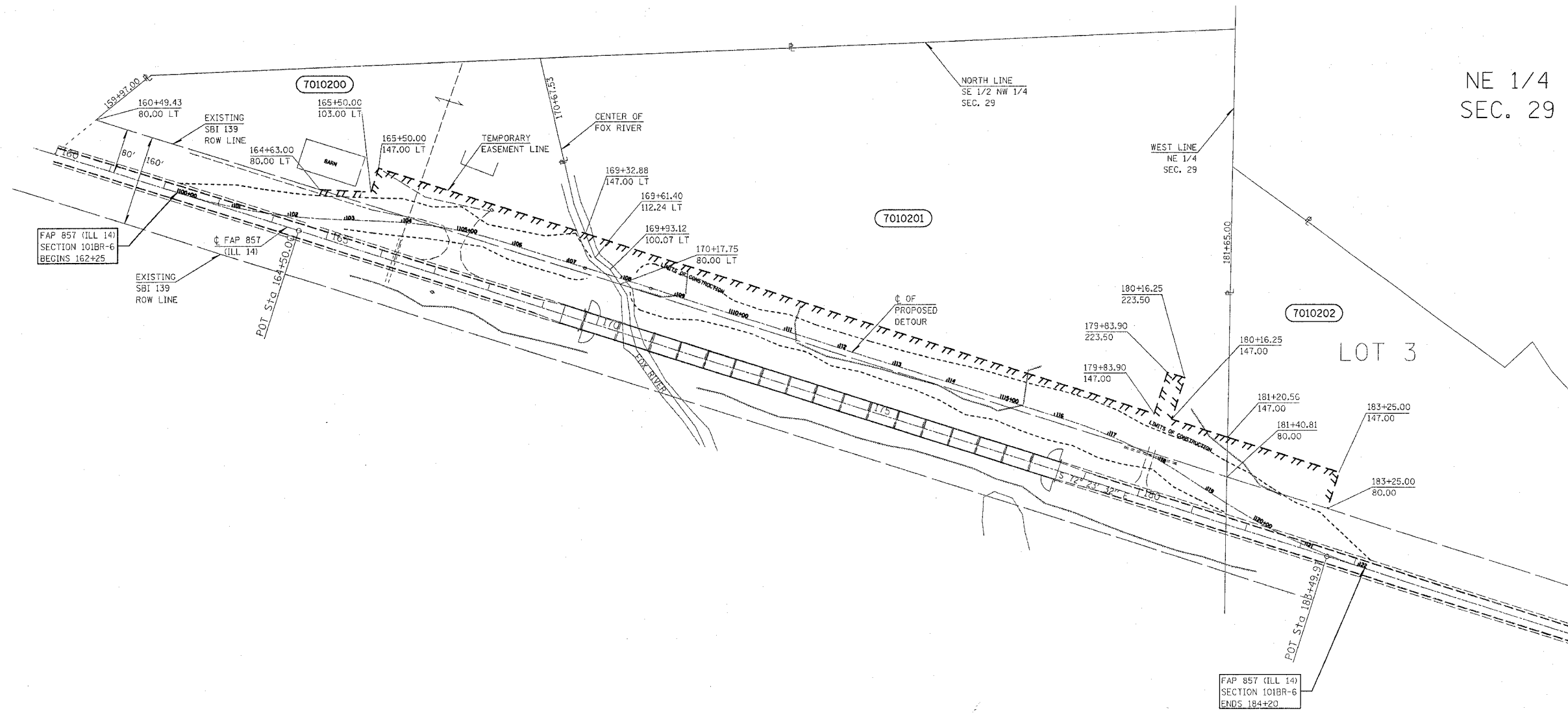
APPROVED _____ 20 _____
ENGINEER OF LAND ACQUISITION

T 4 S - R 14 W 2nd P.M.



NW 1/4
SEC. 29

NE 1/4
SEC. 29



1 2 3 4 5 6 7 8 9 4/12/2006
 10 11 12 13 14 15 16 17 18
 19 20 21 22 23 24 25 26 27 c:\projects\94675\p\01000pa.dgn
 28 29 30 31 32 33 34 35 36
 37 38 39 40 41 42 43 44
 45 46 47 48 49 50 51 52 53
 54 55 56 57 58 59 60 61 62 63

DRAWN BY JMD & ckt 04/05/06
 WRITTEN BY JMD 04/05/06
 CHECKED BY JMD
 INSPECTED BY JMD

CONTRACT NO 94675
 (R) RECORDED DISTANCE
 (P) IRON PIN
 (M) ROW MARKER
 (C) CONCRETE MONUMENT
 (S) STEEL POST
 (I) IRON PIPE
 (E) CONCRETE POST
 (W) WOOD POST
 (A) AXLE
 (B) BRASS MONUMENT

UTILITIES:
 TELEPHONE-
 GAS-
 ELECTRICITY-
 WATER-
 T.V.CABLE-

PARCEL	OWNER	ADD AREA	EXIST. AREA TAKEN	EASEMENT	REM. AREA	INST	MICRO FILM NO	DATE RECORDED	BOOK/PAGE	AREA EXCESS	SOLD
7010200	Jeffery Rawlinson										
7010201	Reba Greer, Wilma Powers & Charles Owen										
7010202	F and R, Inc.										

NOTE:
 BEARINGS ARE ASSUMED
 TEMPORARY EASEMENTS REQUIRED TO IMPROVE DRAINAGE AND AS A WORK AREA.

RIGHT OF WAY PLANS
FAP ROUTE 857
 PROJECT SECTION 101BR-6
 STATION 162+25 TO
 STATION 184+20
 COUNTY WHITE
 SCALE 1"=100' SHEET 2 OF 2

JOB NO. R-97-010-00

Bench Mark: Chiseled "□" top of N.E. wingwall S.N. 097-0031. Elev. 384.69

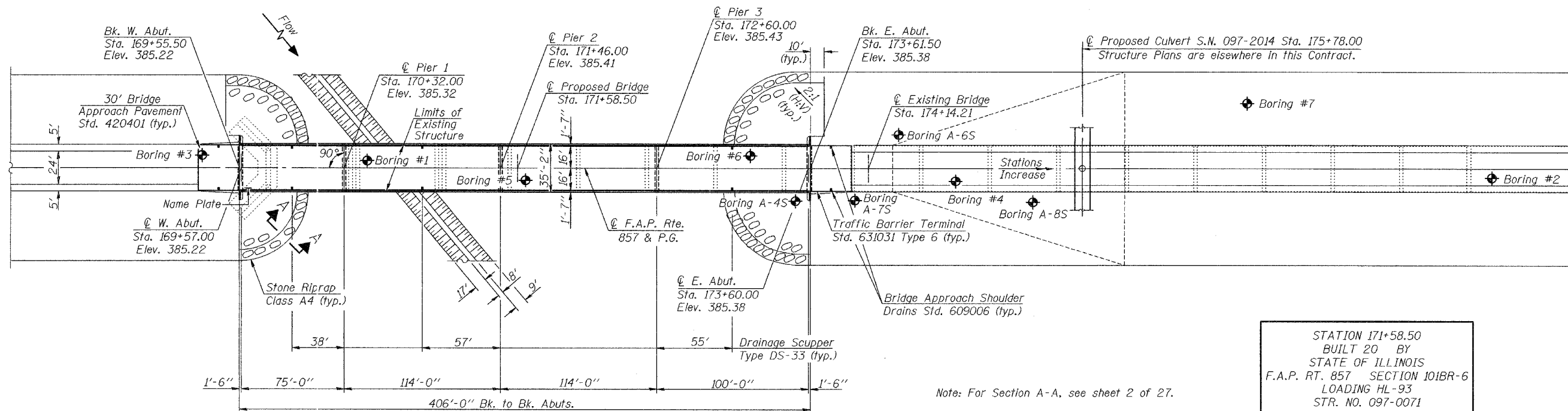
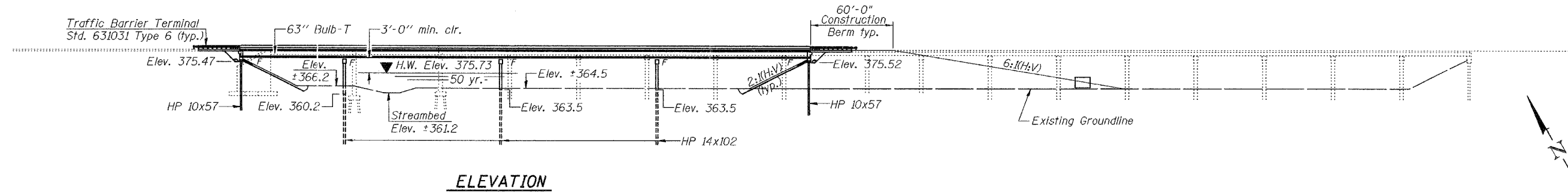
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	20
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

Contract #98960

Existing Structure: S.N. 097-0031 built in 1932 as S.B.I. Route 139, Section 101-B, at Sta. 174+14.21. Super and substructure widened in 1978 as F.A. Route 857, Sec. 101BR-1. Structure consists of 2 spans of PPC deck beams (Spans 1 & 2) & 15 spans of reinf. conc. deck on steel beams (spans 3 thru 17) supported by closed (W) & spill thru pile bent (E) abutments & solid pile (1 & 2) & open conc. pile bent (3 thru 16) piers. 878'-4³/₄" bk.-bk. abuts. 33'-0" O.-O. deck. Structure to be removed and replaced. Traffic to be maintained on temporary run-around on north side of existing bridge during construction.

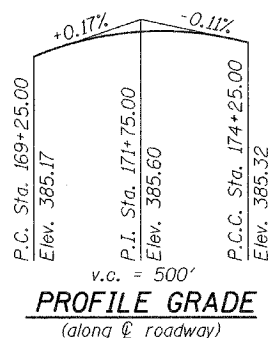
No salvage



STATION 171+58.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 857 SECTION 101BR-6
LOADING HL-93
STR. NO. 097-0071

NAME PLATE
See Std. 515001

Note: For Section A-A, see sheet 2 of 27.



Note: "Contractor shall wait 70 days after completion of embankment placement before driving piles".

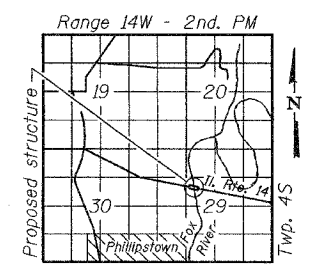
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
1998 AASHTO LRFD Bridge Design Specification with 1999 thru 2003 Interims

DESIGN STRESSES

- FIELD UNITS**
- $f'_c = 3,500$ psi
 - $f_y = 60,000$ psi (reinforcement)
- PRECAST PRESTRESSED UNITS**
- $f'_c = 7,000$ psi
 - $f'_a = 5,000$ psi
 - $f'_s = 270,000$ psi ($\frac{1}{2}$ " low lax. strands)
 - $f_{si} = 201,960$ psi ($\frac{1}{2}$ " low lax strands)

SEISMIC DATA
Seismic Performance Zone = 2
Bedrock Acceleration Coefficient (A) = 9.5%
Site Coefficient (S) = 1.2



GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 14 OVER
FOX RIVER
F.A.P. ROUTE 857 - SECTION 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

WATERWAY INFORMATION

Drainage Area = 29400.0 sq. mi. P. Low Grade Elev. 385.1 ft. Sta. 169+50 E. Low Grade Elev. 385.1 ft. Sta. 169+50

Flood Yr.	Freq. C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	50	8,284	8765	3789	375.7	0.2	0.3	375.9	376.0
Base	100	9,381	9460	4109	376.6	0.3	0.3	376.9	376.9
Overtopping									
Max. Calc.	500	10,424	10021	4370	377.3	0.3	0.4	377.6	377.7

DESIGNED: *William A. Pevora*
CHECKED: *William A. Pevora / Fosselen*

DRAWN: **R. Sommer**
CHECKED: *William A. Pevora / Fosselen*

December 4, 2006

EXAMINED: *Thomas J. ...*
PASSED: *Robert E. ...*



EXPIRES 11-30-2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	ISSUE	DATE	SHEET NO.
F.A.P. 857	10IBR-6	WHITE	100	21	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #98960

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
- 3.-5. Top of Slab Elevations
6. Superstructure
7. Superstructure Details
- 8.&9. Diaphragm Details
10. Drainage Scupper
11. Anchor Bolt Details
12. Framing Plan
- 13.-16. Beam Details
17. West Abutment
18. East Abutment
- 19.-21. Piers
22. Bar Splicers
- 23.-27. Boring Details

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

The embankment configuration shown shall be the minimum embankment that must be placed and compacted prior to construction of the abutments.

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

The Steel H-Piles shall be according to AASHTO M270 Gr.50.

The Contractor shall drive test piles to 110% of the nominal bearing specified in permanent 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 HP10x57 and HP14x102 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.

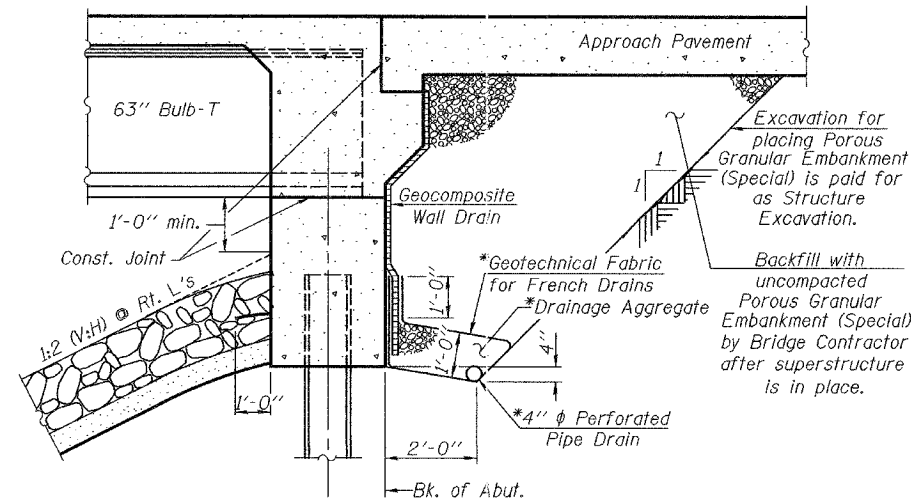
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Reinforcement bars designated (E) shall be epoxy coated.

The Piles shall be driven through 18" dia. precored holes extending to Elev. 550.00 according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

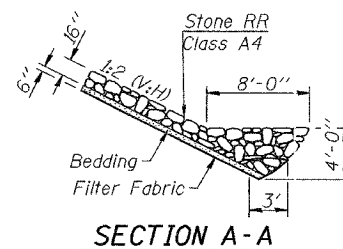
The piles at the East Abutment shall be driven through 18" diameter precored holes extending to Elev. 550.00 according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.



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

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

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).



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Name Plates	Each	1		1
Reinforcement Bars, Epoxy Coated	Pound	131660	15480	147140
Concrete Superstructure	Cu. Yd.	550.2		550.2
Bridge Deck Grooving	Sq. Yd.	1353		1353
Protective Coat	Sq. Yd.	1784		1784
Drainage Scuppers DS-33	Each	6		6
Furnishing and Erecting Precast Prestressed Bulb T beams, 63"	Foot	2417		2417
Concrete Structures	Cu. Yd.		178.4	178.4
Porous Granular Embankment (Special)	Cu. Yd.		227.4	227.4
Furnishing Steel Piles HP 10 x 57	Foot		721	721
Furnishing Steel Piles HP 14 x 102	Foot		1339	1339
Test Pile, Steel HP 10x57	Each		1	1
Test Pile, Steel HP 14x102	Each		1	1
Driving Piles	Foot		2060	2060
Underwater Structure Excavation Protection, Location 1	Each	1		1
Underwater Structure Excavation Protection, Location 2	Each	1		1
Underwater Structure Excavation Protection, Location 3	Each	1		1
Stone Riprap, Class A4	Sq. Yd.		686	686
Filter Fabric	Sq. Yd.		686	686
Bar Splicers	Each	62		62
Structure Excavation	Cu. Yd.		145	145
Pipe Underdrain for Structures, 4"	Foot		150	150
Geocomposite Wall Drain	Sq. Yd.		80.8	80.8
Concrete Encasement	Cu. Yd.		11.7	11.7
Asbestos Bearing Pad Removal	Each		44	44

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

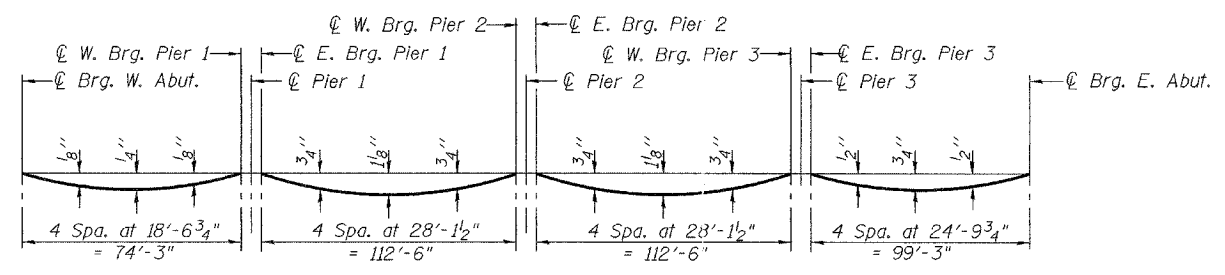
December 4 2006
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL DATA
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	TOTAL SHEETS 100	SHEET NO. 22	SHEET NO. 3 27 SHEETS
FED. ROAD DIST. NO. 7		BLENDS	FED. AID PROJECT		

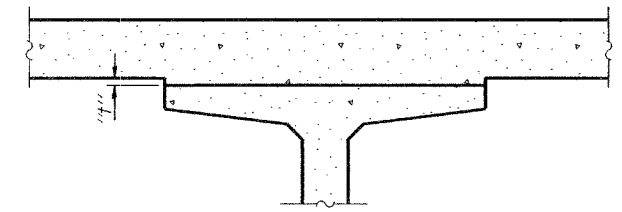
Contract #98960



DEAD LOAD DEFLECTION DIAGRAM

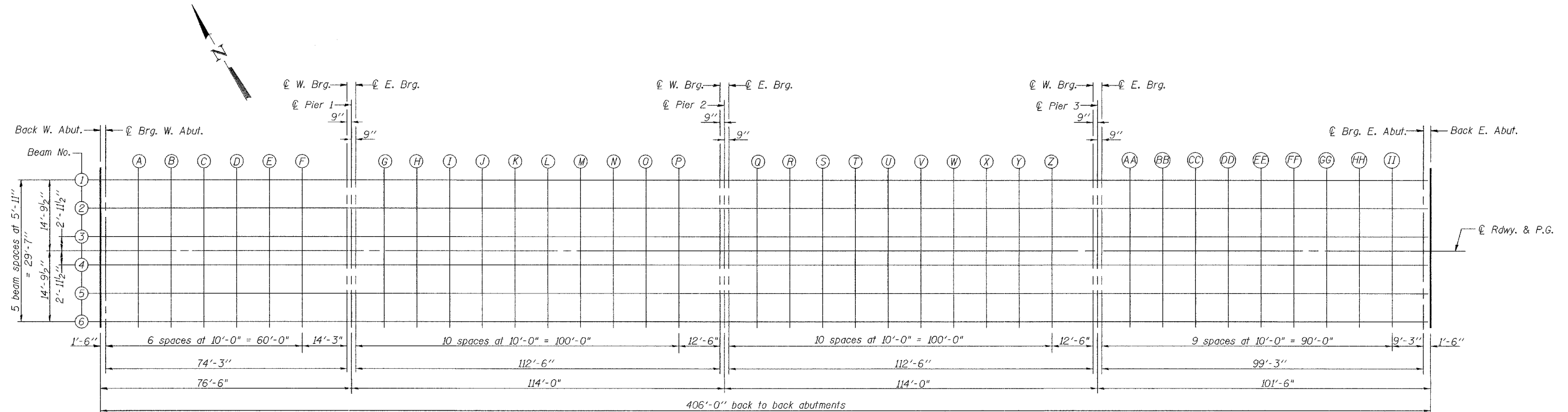
(Includes weight of concrete, excluding beams)

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 sheets 4 and 5 of 27.



To determine "t": After all precast prestressed beams have 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 Deflections" minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4 2006
EXAMINED *Thomas J. Demagalki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET
F.A.P. 857	10IBR-6	WHITE	100	23
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 4

27 SHEETS

Contract #98960

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	16955.50	-14.79	384.98	384.98
℄ Brg. W. Abut.	16957.00	-14.79	384.98	384.98
A	16967.00	-14.79	385.00	385.00
B	16977.00	-14.79	385.01	385.02
C	16987.00	-14.79	385.02	385.04
D	16997.00	-14.79	385.04	385.06
E	17007.00	-14.79	385.05	385.06
F	17017.00	-14.79	385.06	385.07
℄ W. Brg.	17031.25	-14.79	385.08	385.08
℄ Pier 1	17032.00	-14.79	385.08	385.08
℄ E. Brg.	17032.75	-14.79	385.08	385.08
G	17042.75	-14.79	385.09	385.11
H	17052.75	-14.79	385.10	385.15
I	17062.75	-14.79	385.11	385.18
J	17072.75	-14.79	385.12	385.20
K	17082.75	-14.79	385.13	385.21
L	17092.75	-14.79	385.14	385.23
M	17102.75	-14.79	385.14	385.22
N	17112.75	-14.79	385.15	385.22
O	17122.75	-14.79	385.16	385.21
P	17132.75	-14.79	385.16	385.19
℄ W. Brg.	17145.25	-14.79	385.17	385.17
℄ Pier 2	17146.00	-14.79	385.17	385.17
℄ E. Brg.	17146.75	-14.79	385.17	385.17
Q	17156.75	-14.79	385.17	385.20
R	17166.75	-14.79	385.18	385.22
S	17176.75	-14.79	385.18	385.24
T	17186.75	-14.79	385.18	385.26
U	17196.75	-14.79	385.18	385.27
V	17206.75	-14.79	385.19	385.28
W	17216.75	-14.79	385.19	385.27
X	17226.75	-14.79	385.19	385.25
Y	17236.75	-14.79	385.19	385.24
Z	17246.75	-14.79	385.19	385.21
℄ W. Brg.	17259.25	-14.79	385.18	385.18
℄ Pier 3	17260.00	-14.79	385.18	385.18
℄ E. Brg.	17260.75	-14.79	385.18	385.18
AI	17270.75	-14.79	385.18	385.20
BI	17280.75	-14.79	385.18	385.21
CI	17290.75	-14.79	385.18	385.22
DI	17300.75	-14.79	385.17	385.23
EI	17310.75	-14.79	385.17	385.23
FI	17320.75	-14.79	385.16	385.22
GI	17330.75	-14.79	385.16	385.20
HI	17340.75	-14.79	385.15	385.18
II	17350.75	-14.79	385.15	385.16
℄ Brg. E. Abut.	17360.00	-14.79	385.14	385.14
Bk. of E. Abut.	17361.50	-14.79	385.14	385.14

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	16955.50	-8.88	385.09	385.09
℄ Brg. W. Abut.	16957.00	-8.88	385.09	385.09
A	16967.00	-8.88	385.10	385.11
B	16977.00	-8.88	385.12	385.13
C	16987.00	-8.88	385.13	385.15
D	16997.00	-8.88	385.14	385.16
E	17007.00	-8.88	385.16	385.17
F	17017.00	-8.88	385.17	385.18
℄ W. Brg.	17031.25	-8.88	385.19	385.19
℄ Pier 1	17032.00	-8.88	385.19	385.19
℄ E. Brg.	17032.75	-8.88	385.19	385.19
G	17042.75	-8.88	385.20	385.22
H	17052.75	-8.88	385.21	385.25
I	17062.75	-8.88	385.22	385.28
J	17072.75	-8.88	385.23	385.30
K	17082.75	-8.88	385.23	385.32
L	17092.75	-8.88	385.24	385.33
M	17102.75	-8.88	385.25	385.33
N	17112.75	-8.88	385.26	385.32
O	17122.75	-8.88	385.26	385.31
P	17132.75	-8.88	385.27	385.30
℄ W. Brg.	17145.25	-8.88	385.27	385.27
℄ Pier 2	17146.00	-8.88	385.28	385.28
℄ E. Brg.	17146.75	-8.88	385.28	385.28
Q	17156.75	-8.88	385.28	385.30
R	17166.75	-8.88	385.28	385.33
S	17176.75	-8.88	385.29	385.35
T	17186.75	-8.88	385.29	385.37
U	17196.75	-8.88	385.29	385.38
V	17206.75	-8.88	385.29	385.38
W	17216.75	-8.88	385.29	385.37
X	17226.75	-8.88	385.29	385.36
Y	17236.75	-8.88	385.29	385.34
Z	17246.75	-8.88	385.29	385.32
℄ W. Brg.	17259.25	-8.88	385.29	385.29
℄ Pier 3	17260.00	-8.88	385.29	385.29
℄ E. Brg.	17260.75	-8.88	385.29	385.29
AI	17270.75	-8.88	385.29	385.31
BI	17280.75	-8.88	385.29	385.32
CI	17290.75	-8.88	385.28	385.33
DI	17300.75	-8.88	385.28	385.33
EI	17310.75	-8.88	385.28	385.34
FI	17320.75	-8.88	385.27	385.32
GI	17330.75	-8.88	385.27	385.31
HI	17340.75	-8.88	385.26	385.29
II	17350.75	-8.88	385.25	385.27
℄ Brg. E. Abut.	17360.00	-8.88	385.25	385.25
Bk. of E. Abut.	17361.50	-8.88	385.24	385.24

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	16955.50	-2.96	385.18	385.18
℄ Brg. W. Abut.	16957.00	-2.96	385.18	385.18
A	16967.00	-2.96	385.20	385.20
B	16977.00	-2.96	385.21	385.22
C	16987.00	-2.96	385.22	385.24
D	16997.00	-2.96	385.24	385.26
E	17007.00	-2.96	385.25	385.26
F	17017.00	-2.96	385.26	385.27
℄ W. Brg.	17031.25	-2.96	385.28	385.28
℄ Pier 1	17032.00	-2.96	385.28	385.28
℄ E. Brg.	17032.75	-2.96	385.28	385.28
G	17042.75	-2.96	385.29	385.31
H	17052.75	-2.96	385.30	385.34
I	17062.75	-2.96	385.31	385.37
J	17072.75	-2.96	385.32	385.39
K	17082.75	-2.96	385.33	385.41
L	17092.75	-2.96	385.34	385.42
M	17102.75	-2.96	385.34	385.42
N	17112.75	-2.96	385.35	385.42
O	17122.75	-2.96	385.36	385.41
P	17132.75	-2.96	385.36	385.39
℄ W. Brg.	17145.25	-2.96	385.37	385.37
℄ Pier 2	17146.00	-2.96	385.37	385.37
℄ E. Brg.	17146.75	-2.96	385.37	385.37
Q	17156.75	-2.96	385.37	385.39
R	17166.75	-2.96	385.38	385.42
S	17176.75	-2.96	385.38	385.44
T	17186.75	-2.96	385.38	385.46
U	17196.75	-2.96	385.38	385.47
V	17206.75	-2.96	385.39	385.48
W	17216.75	-2.96	385.39	385.46
X	17226.75	-2.96	385.39	385.45
Y	17236.75	-2.96	385.39	385.44
Z	17246.75	-2.96	385.39	385.41
℄ W. Brg.	17259.25	-2.96	385.38	385.38
℄ Pier 3	17260.00	-2.96	385.38	385.38
℄ E. Brg.	17260.75	-2.96	385.38	385.38
AI	17270.75	-2.96	385.38	385.40
BI	17280.75	-2.96	385.38	385.41
CI	17290.75	-2.96	385.38	385.42
DI	17300.75	-2.96	385.37	385.43
EI	17310.75	-2.96	385.37	385.43
FI	17320.75	-2.96	385.36	385.42
GI	17330.75	-2.96	385.36	385.40
HI	17340.75	-2.96	385.35	385.38
II	17350.75	-2.96	385.35	385.36
℄ Brg. E. Abut.	17360.00	-2.96	385.34	385.34
Bk. of E. Abut.	17361.50	-2.96	385.34	385.34

DESIGNED Daniel H. Tobias	December 4 2006
CHECKED W. A. Belsner	EXAMINED Thomas J. Demagalicki
DRAWN R. Sommer	PASSED Ralph E. Carlson
CHECKED WAB/FT	

TOP OF SLAB ELEVATIONS
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

Contract #98960

RDWY. & P.G.

BEAM 4

BEAM 5

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	16955.50	0.00	385.22	385.22	Bk. of W. Abut.	16955.50	2.96	385.18	385.18	Bk. of W. Abut.	16955.50	8.88	385.09	385.09	Bk. of W. Abut.	16955.50	14.79	384.98	384.98
∅ Brg. W. Abut.	16957.00	0.00	385.23	385.23	∅ Brg. W. Abut.	16957.00	2.96	385.18	385.18	∅ Brg. W. Abut.	16957.00	8.88	385.09	385.09	∅ Brg. W. Abut.	16957.00	14.79	384.98	384.98
A	16967.00	0.00	385.24	385.25	A	16967.00	2.96	385.20	385.20	A	16967.00	8.88	385.10	385.11	A	16967.00	14.79	385.00	385.00
B	16977.00	0.00	385.26	385.27	B	16977.00	2.96	385.21	385.22	B	16977.00	8.88	385.12	385.13	B	16977.00	14.79	385.01	385.02
C	16987.00	0.00	385.27	385.29	C	16987.00	2.96	385.22	385.24	C	16987.00	8.88	385.13	385.15	C	16987.00	14.79	385.02	385.04
D	16997.00	0.00	385.28	385.30	D	16997.00	2.96	385.24	385.26	D	16997.00	8.88	385.14	385.16	D	16997.00	14.79	385.04	385.06
E	17007.00	0.00	385.30	385.31	E	17007.00	2.96	385.25	385.26	E	17007.00	8.88	385.16	385.17	E	17007.00	14.79	385.05	385.06
F	17017.00	0.00	385.31	385.32	F	17017.00	2.96	385.26	385.27	F	17017.00	8.88	385.17	385.18	F	17017.00	14.79	385.06	385.07
∅ W. Brg.	17031.25	0.00	385.32	385.32	∅ W. Brg.	17031.25	2.96	385.28	385.28	∅ W. Brg.	17031.25	8.88	385.19	385.19	∅ W. Brg.	17031.25	14.79	385.08	385.08
∅ Pier 1	17032.00	0.00	385.32	385.32	∅ Pier 1	17032.00	2.96	385.28	385.28	∅ Pier 1	17032.00	8.88	385.19	385.19	∅ Pier 1	17032.00	14.79	385.08	385.08
∅ E. Brg.	17032.75	0.00	385.33	385.33	∅ E. Brg.	17032.75	2.96	385.28	385.28	∅ E. Brg.	17032.75	8.88	385.19	385.19	∅ E. Brg.	17032.75	14.79	385.08	385.08
G	17042.75	0.00	385.34	385.36	G	17042.75	2.96	385.29	385.31	G	17042.75	8.88	385.20	385.22	G	17042.75	14.79	385.09	385.11
H	17052.75	0.00	385.35	385.39	H	17052.75	2.96	385.30	385.34	H	17052.75	8.88	385.21	385.25	H	17052.75	14.79	385.10	385.15
I	17062.75	0.00	385.36	385.42	I	17062.75	2.96	385.31	385.37	I	17062.75	8.88	385.22	385.28	I	17062.75	14.79	385.11	385.18
J	17072.75	0.00	385.37	385.44	J	17072.75	2.96	385.32	385.39	J	17072.75	8.88	385.23	385.30	J	17072.75	14.79	385.12	385.20
K	17082.75	0.00	385.37	385.46	K	17082.75	2.96	385.33	385.41	K	17082.75	8.88	385.23	385.32	K	17082.75	14.79	385.13	385.21
L	17092.75	0.00	385.38	385.47	L	17092.75	2.96	385.34	385.42	L	17092.75	8.88	385.24	385.33	L	17092.75	14.79	385.14	385.23
M	17102.75	0.00	385.39	385.47	M	17102.75	2.96	385.34	385.42	M	17102.75	8.88	385.25	385.33	M	17102.75	14.79	385.14	385.22
N	17112.75	0.00	385.40	385.46	N	17112.75	2.96	385.35	385.42	N	17112.75	8.88	385.26	385.32	N	17112.75	14.79	385.15	385.22
O	17122.75	0.00	385.40	385.45	O	17122.75	2.96	385.36	385.41	O	17122.75	8.88	385.26	385.31	O	17122.75	14.79	385.16	385.21
P	17132.75	0.00	385.41	385.44	P	17132.75	2.96	385.36	385.39	P	17132.75	8.88	385.27	385.30	P	17132.75	14.79	385.16	385.19
∅ W. Brg.	17145.25	0.00	385.41	385.41	∅ W. Brg.	17145.25	2.96	385.37	385.37	∅ W. Brg.	17145.25	8.88	385.27	385.27	∅ W. Brg.	17145.25	14.79	385.17	385.17
∅ Pier 2	17146.00	0.00	385.41	385.41	∅ Pier 2	17146.00	2.96	385.37	385.37	∅ Pier 2	17146.00	8.88	385.28	385.28	∅ Pier 2	17146.00	14.79	385.17	385.17
∅ E. Brg.	17146.75	0.00	385.41	385.41	∅ E. Brg.	17146.75	2.96	385.37	385.37	∅ E. Brg.	17146.75	8.88	385.28	385.28	∅ E. Brg.	17146.75	14.79	385.17	385.17
Q	17156.75	0.00	385.42	385.44	Q	17156.75	2.96	385.37	385.39	Q	17156.75	8.88	385.28	385.30	Q	17156.75	14.79	385.17	385.20
R	17166.75	0.00	385.42	385.47	R	17166.75	2.96	385.38	385.42	R	17166.75	8.88	385.28	385.33	R	17166.75	14.79	385.18	385.22
S	17176.75	0.00	385.43	385.49	S	17176.75	2.96	385.38	385.44	S	17176.75	8.88	385.29	385.35	S	17176.75	14.79	385.18	385.24
T	17186.75	0.00	385.43	385.50	T	17186.75	2.96	385.38	385.46	T	17186.75	8.88	385.29	385.37	T	17186.75	14.79	385.18	385.26
U	17196.75	0.00	385.43	385.52	U	17196.75	2.96	385.38	385.47	U	17196.75	8.88	385.29	385.38	U	17196.75	14.79	385.18	385.27
V	17206.75	0.00	385.43	385.52	V	17206.75	2.96	385.39	385.48	V	17206.75	8.88	385.29	385.38	V	17206.75	14.79	385.19	385.28
W	17216.75	0.00	385.43	385.51	W	17216.75	2.96	385.39	385.46	W	17216.75	8.88	385.29	385.37	W	17216.75	14.79	385.19	385.27
X	17226.75	0.00	385.43	385.50	X	17226.75	2.96	385.39	385.45	X	17226.75	8.88	385.29	385.36	X	17226.75	14.79	385.19	385.25
Y	17236.75	0.00	385.43	385.48	Y	17236.75	2.96	385.39	385.44	Y	17236.75	8.88	385.29	385.34	Y	17236.75	14.79	385.19	385.24
Z	17246.75	0.00	385.43	385.46	Z	17246.75	2.96	385.39	385.41	Z	17246.75	8.88	385.29	385.32	Z	17246.75	14.79	385.19	385.21
∅ W. Brg.	17259.25	0.00	385.43	385.43	∅ W. Brg.	17259.25	2.96	385.38	385.38	∅ W. Brg.	17259.25	8.88	385.29	385.29	∅ W. Brg.	17259.25	14.79	385.18	385.18
∅ Pier 3	17260.00	0.00	385.43	385.43	∅ Pier 3	17260.00	2.96	385.38	385.38	∅ Pier 3	17260.00	8.88	385.29	385.29	∅ Pier 3	17260.00	14.79	385.18	385.18
∅ E. Brg.	17260.75	0.00	385.43	385.43	∅ E. Brg.	17260.75	2.96	385.38	385.38	∅ E. Brg.	17260.75	8.88	385.29	385.29	∅ E. Brg.	17260.75	14.79	385.18	385.18
A1	17270.75	0.00	385.43	385.44	A1	17270.75	2.96	385.38	385.40	A1	17270.75	8.88	385.29	385.31	A1	17270.75	14.79	385.18	385.20
B1	17280.75	0.00	385.43	385.46	B1	17280.75	2.96	385.38	385.41	B1	17280.75	8.88	385.29	385.32	B1	17280.75	14.79	385.18	385.21
C1	17290.75	0.00	385.42	385.47	C1	17290.75	2.96	385.38	385.42	C1	17290.75	8.88	385.28	385.33	C1	17290.75	14.79	385.18	385.22
D1	17300.75	0.00	385.42	385.47	D1	17300.75	2.96	385.37	385.43	D1	17300.75	8.88	385.28	385.33	D1	17300.75	14.79	385.17	385.23
E1	17310.75	0.00	385.41	385.48	E1	17310.75	2.96	385.37	385.43	E1	17310.75	8.88	385.28	385.34	E1	17310.75	14.79	385.17	385.23
F1	17320.75	0.00	385.41	385.46	F1	17320.75	2.96	385.36	385.42	F1	17320.75	8.88	385.27	385.32	F1	17320.75	14.79	385.16	385.22
G1	17330.75	0.00	385.40	385.45	G1	17330.75	2.96	385.36	385.40	G1	17330.75	8.88	385.27	385.31	G1	17330.75	14.79	385.16	385.20
H1	17340.75	0.00	385.40	385.43	H1	17340.75	2.96	385.35	385.38	H1	17340.75	8.88	385.26	385.29	H1	17340.75	14.79	385.15	385.18
I1	17350.75	0.00	385.39	385.41	I1	17350.75	2.96	385.35	385.36	I1	17350.75	8.88	385.25	385.27	I1	17350.75	14.79	385.15	385.16
∅ Brg. E. Abut.	17360.00	0.00	385.38	385.38	∅ Brg. E. Abut.	17360.00	2.96	385.34	385.34	∅ Brg. E. Abut.	17360.00	8.88	385.25	385.25	∅ Brg. E. Abut.	17360.00	14.79	385.14	385.14
Bk. of E. Abut.	17361.50	0.00	385.38	385.38	Bk. of E. Abut.	17361.50	2.96	385.34	385.34	Bk. of E. Abut.	17361.50	8.88	385.24	385.24	Bk. of E. Abut.	17361.50	14.79	385.14	385.14

DESIGNED Daniel H. Tobias
 CHECKED W. A. Beisner
 DRAWN R. Sommer
 CHECKED WAB/FT

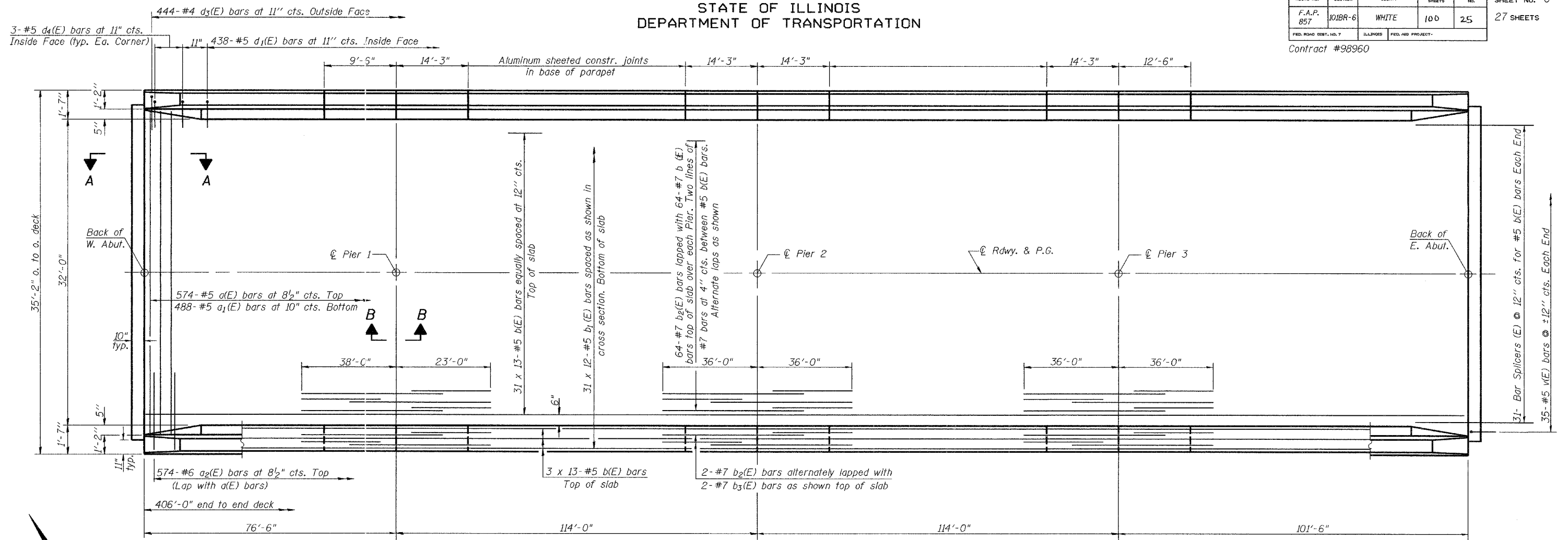
December 4 2006
 EXAMINED Thomas J. Domagala
 PASSED Ralph E. Anderson
ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
 F.A.P. RT. 857 SEC. 10IBR-6
 WHITE COUNTY
 STATION 171+58.50
 STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	TOTAL SHEETS 100	SHEET NO. 25	SHEET NO. 6 27 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT			

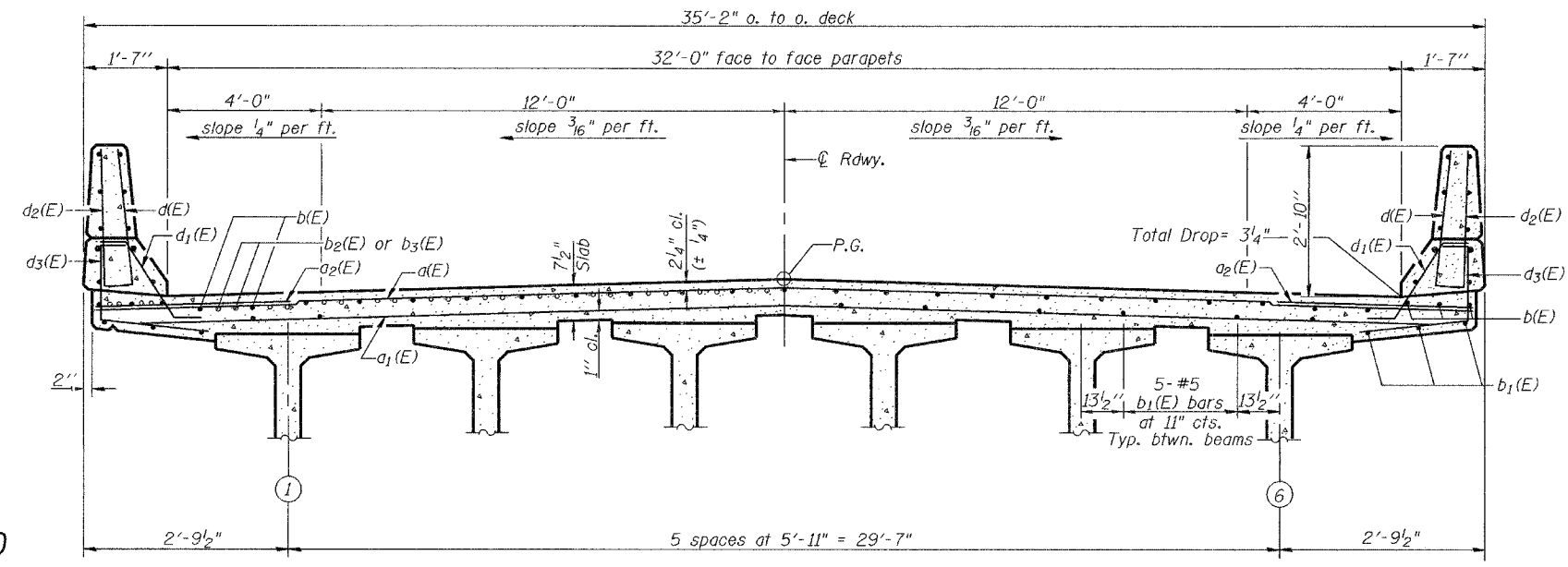
Contract #98960



PLAN

MIN. BAR LAPS

#5 bars = 1'-8"
#7 bars = 3'-5"



CROSS SECTION
(Looking East)

Notes: See sheet 7 of 27 for superstructure details and Bill of Material.
See sheet 8 & 9 of 27 for Sections A-A & B-B at Abutments and Piers.
Bars indicated thus 31 x 13-#5 etc. indicates 31 lines of bars with 13 lengths per line.
Cut longitudinal reinforcement to clear drainage scouppers.

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4 2006
EXAMINED *Thomas J. Domagalicki*
PASSED *Ralph E. Anderson*
ENGINEER OF PUBLIC DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

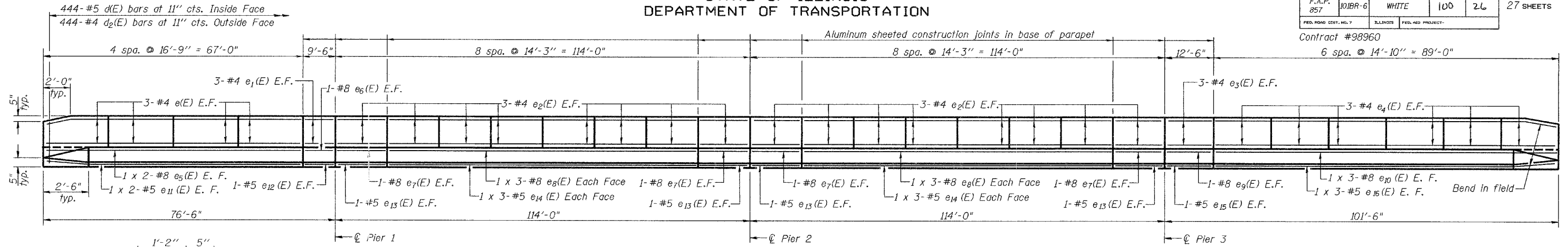
SUPERSTRUCTURE
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
F.A.P. 857	101BR-6	WHITE	100	26	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

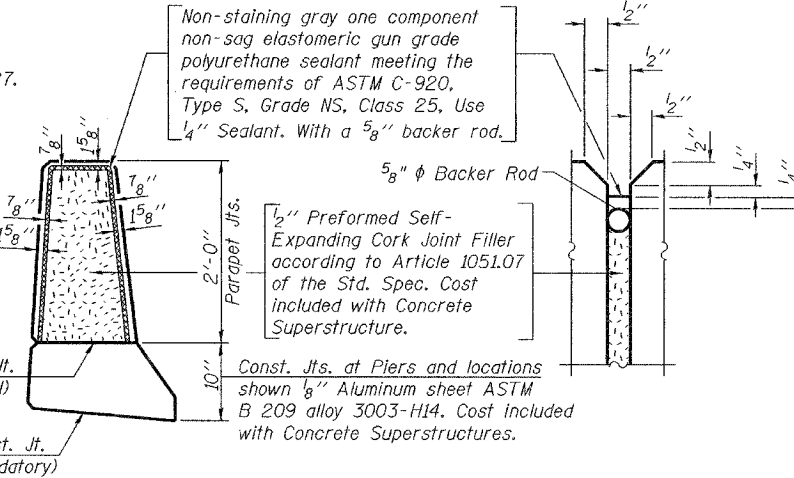
Contract #98960

6 spa. @ 14'-10" = 89'-0"



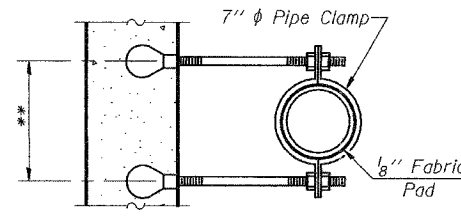
INSIDE ELEVATION OF PARAPET

(North Parapet shown, South Parapet similar)



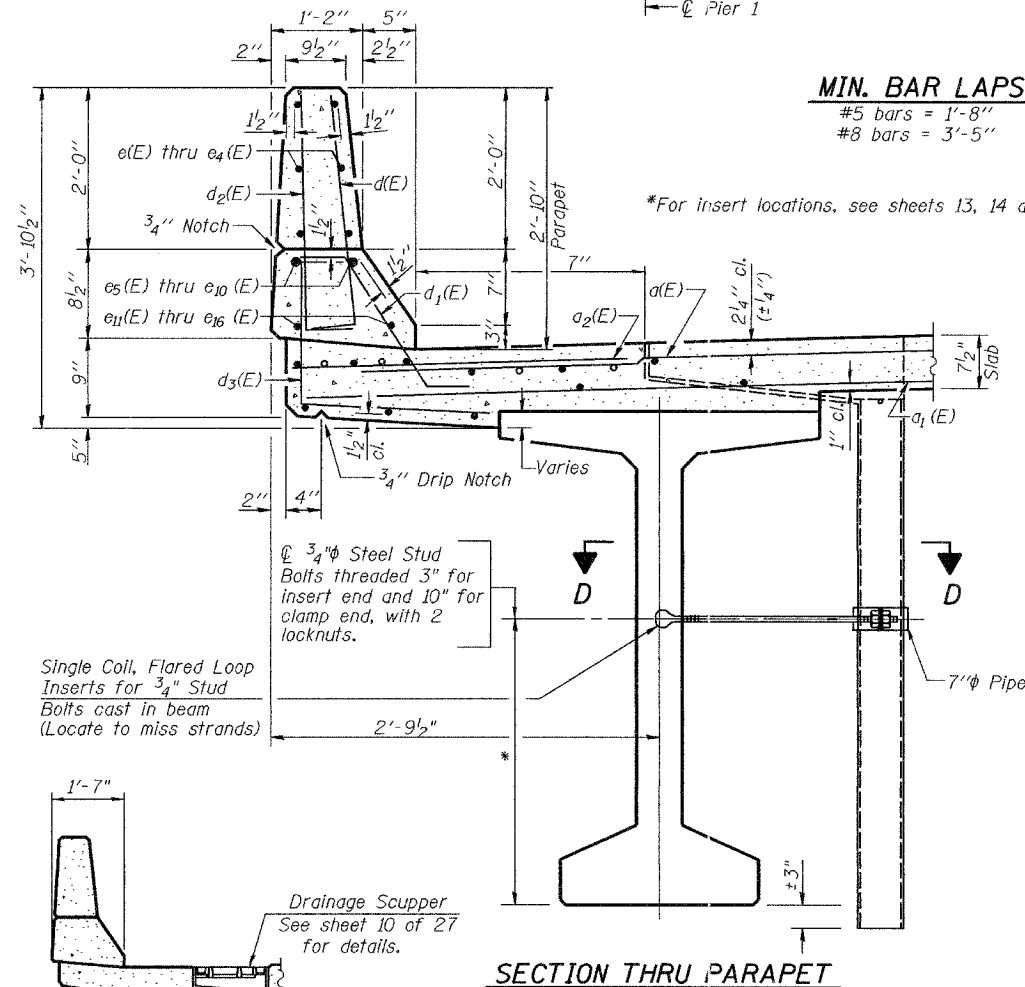
PARAPET JOINT DETAILS

Note: The clamping device and inserts shall be galvanized according to AASHTO M-232.

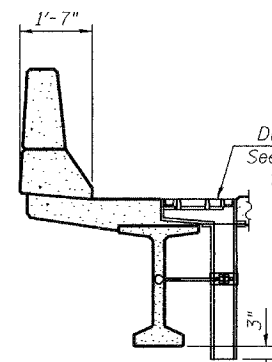


SECTION D-D

**Dimension as required by Pipe Clamp



SECTION THRU PARAPET

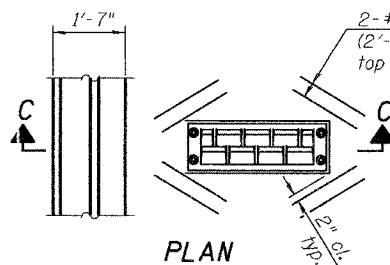


DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4 2006

EXAMINED *Thomas J. Demagabki*
ENGINEER OF BRIDGE DESIGN

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



BARS d(E) & d2(E)

BAR s(E)

BAR s1(E)

BAR d1(E)

BAR d3(E)

BAR d4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	574	#5	34'-6"	—
a1(E)	488	#5	33'-2"	—
a2(E)	1148	#6	6'-6"	—
a3(E)	48	#5	2'-0"	—
b(E)	481	#5	32'-9"	—
b1(E)	372	#5	35'-4"	—
b2(E)	204	#7	30'-5"	—
b3(E)	204	#7	45'-0"	—
d(E)	888	#5	3'-0"	┌
d1(E)	876	#5	2'-5"	┌
d2(E)	888	#4	3'-0"	┌
d3(E)	888	#4	2'-4"	┌
d4(E)	12	#5	2'-5"	┌
e(E)	48	#4	16'-5"	—
e1(E)	12	#4	9'-2"	—
e2(E)	192	#4	13'-11"	—
e3(E)	12	#4	12'-2"	—
e4(E)	72	#4	14'-6"	—
e5(E)	8	#8	35'-0"	—
e6(E)	4	#8	9'-2"	—
e7(E)	16	#8	13'-11"	—
e8(E)	24	#8	30'-8"	—
e9(E)	4	#8	12'-2"	—
e10(E)	12	#8	31'-10"	—
e11(E)	8	#5	34'-2"	—
e12(E)	4	#5	9'-2"	—
e13(E)	16	#5	13'-11"	—
e14(E)	24	#5	29'-7"	—
e15(E)	4	#5	12'-2"	—
e16(E)	12	#5	30'-9"	—

Bar	No.	Size	Length	Shape
m(E)	8	#6	34'-10"	—
m1(E)	10	#6	3'-6"	—
m2(E)	4	#6	1'-5"	—
m3(E)	24	#6	8'-8"	—
m4(E)	12	#6	7'-0"	—
m5(E)	4	#6	33'-0"	—
m6(E)	18	#8	6'-2"	—
m7(E)	30	#6	3'-7"	—
ma(E)	90	#4	5'-3"	—
s(E)	72	#5	6'-10"	┌
s1(E)	52	#4	14'-8"	┌
s2(E)	45	#4	13'-10"	┌
v(E)	70	#5	3'-6"	┌
Reinforcement Bars (Epoxy Coated)		Lbs.	131660	
Concrete Superstructure		Cu. Yds.	550.2	

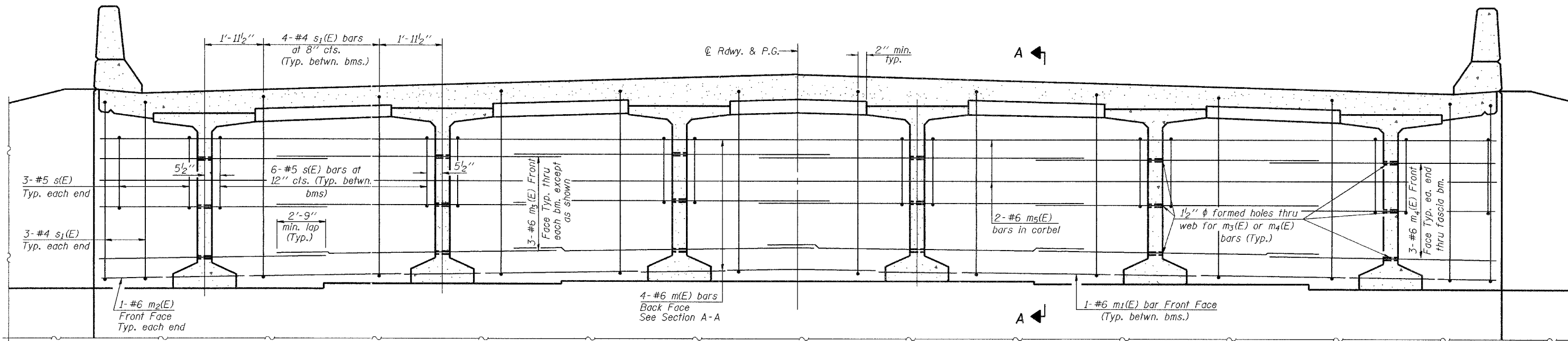
Bars indicated thus 1 x 3-#5 etc., indicates 1 line of bars with 3 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

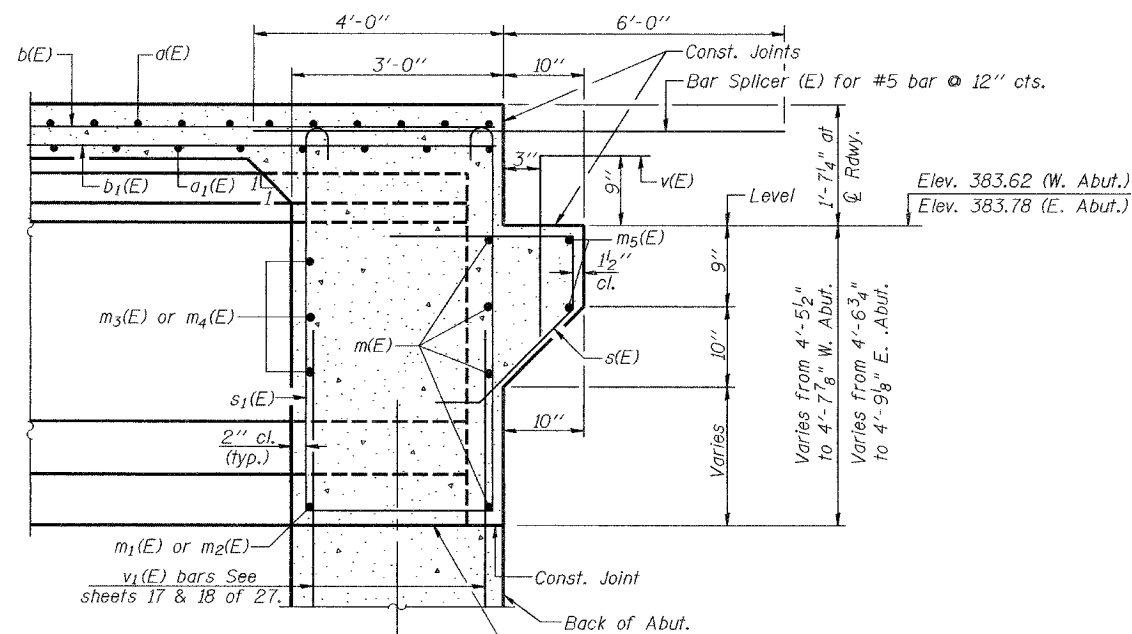
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
F.A.P. 857	101BR-6	WHITE	100	27	27 SHEETS
FED. ROAD DIST. NO. 7	B.LINDES	FED. AID PROJECT-			

Contract #98960



ELEVATION AT ABUTMENTS

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



SECTION A-A
Dimensions at right angles to abutment

Notes: Reinforcement bars in diaphragms are billed with superstructure on sheet 7 of 27.
Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 27.
For details of bars s(E), s1(E) and v(E) see sheet 7 of 27.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Belsner
DRAWN	R. Sommer
CHECKED	WAB/FT

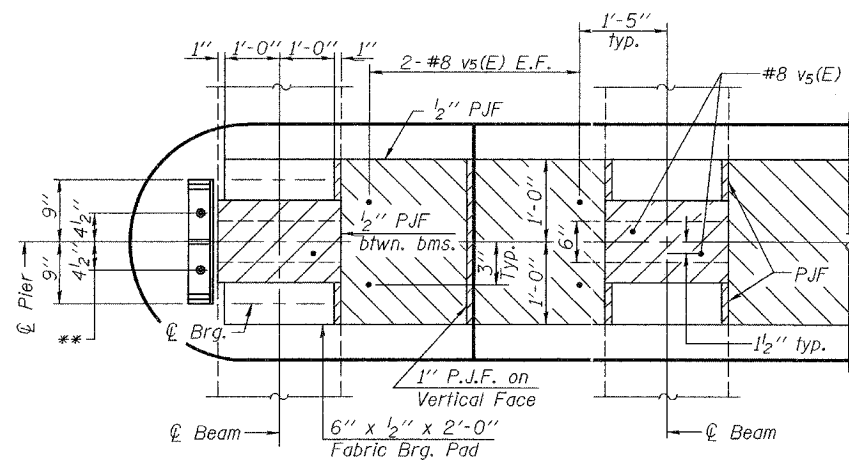
EXAMINED	December 4, 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

DIAPHRAGM DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

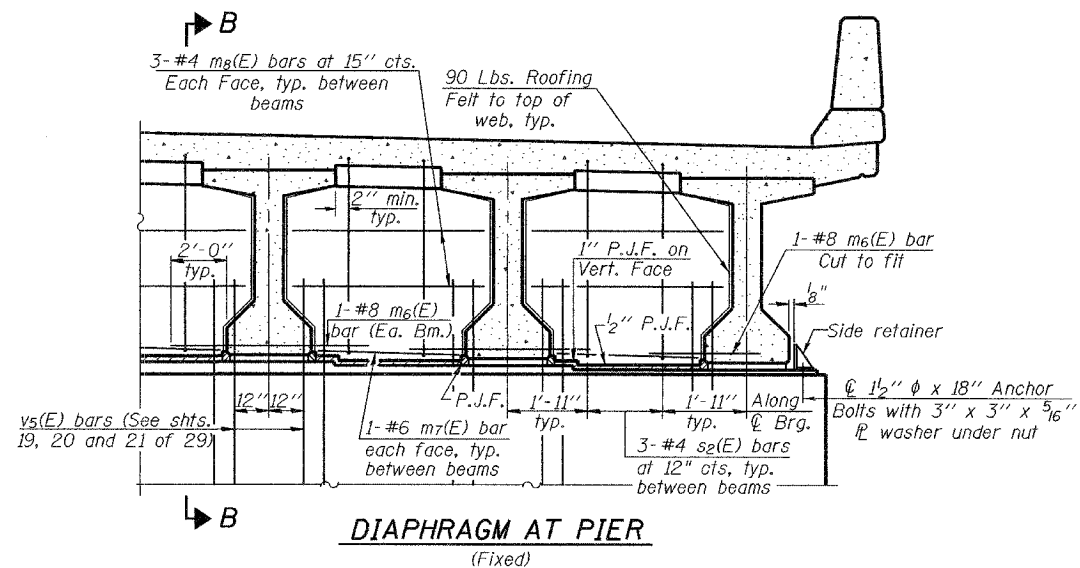
ROUTE NO. F.A.P. 857	SECTION 10IBR-6	COUNTY WHITE	TOTAL SHEETS 100	SHEET NO. 28	SHEET NO. 9 27 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract #98960

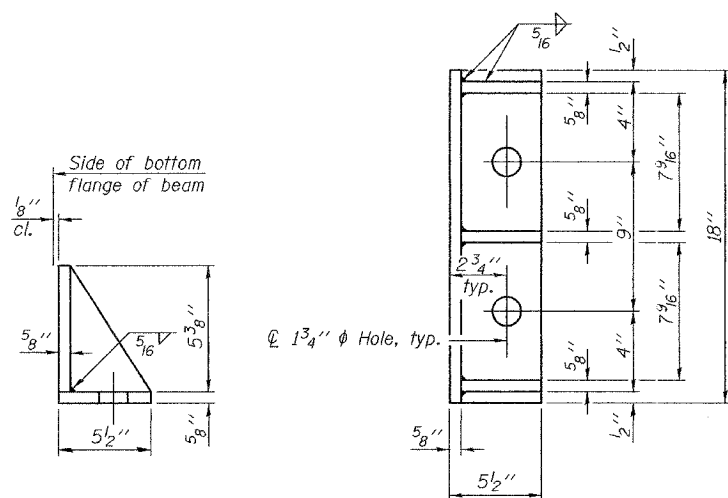


FIXED PIER DETAIL

** \varnothing 1/2" ϕ x 18" Anchor bolts with 3" x 3" x 5/16" \varnothing washer under nut. Holes in cap to be drilled after beams are in place.



DIAPHRAGM AT PIER
(Fixed)

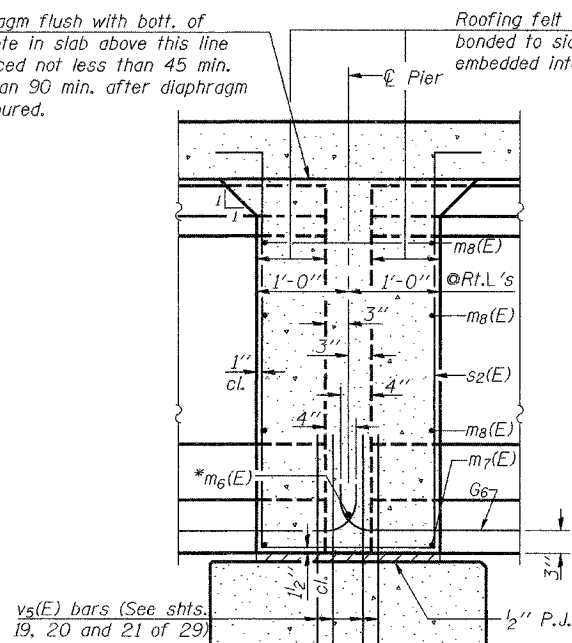


SIDE RETAINER

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

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

Roofing felt shall be bonded to side of beam embedded into diaphragm.



SECTION B-B AT PIER
(Fixed)

*Tightly fasten the #8 bars together with No. 9 wire ties.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 27.
Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 27.
The s₂(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
Cost of 90 Lb. roofing felt is included with Concrete Superstructure. See sheet 11 of 27 for anchor bolt details.
Horizontal dimensions for Sec. B-B are along \varnothing of beam unless otherwise noted.
All side retainers, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 (as applicable). Cost of side retainers and anchor bolts shall be included with Concrete Structures.
For details of s₂(E) bars, See sheet 7 of 27.

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

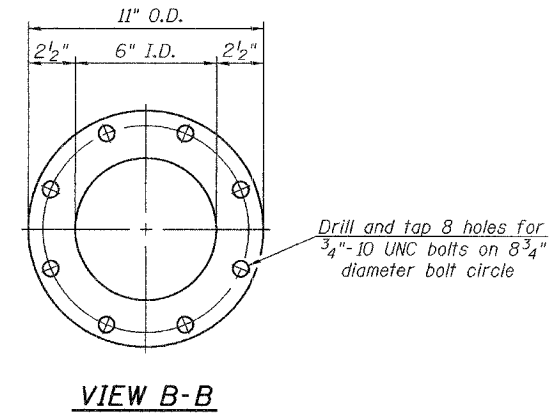
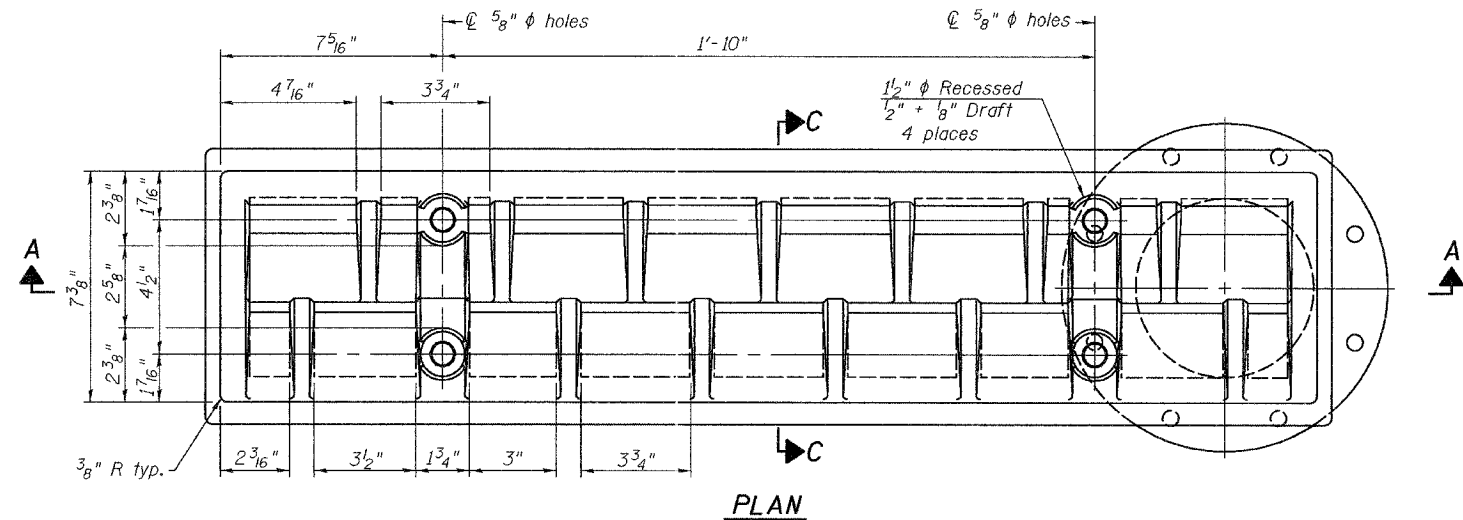
EXAMINED	December 4 2006 Thomas J. Domagalaki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

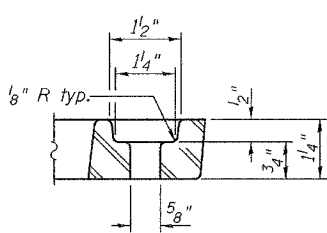
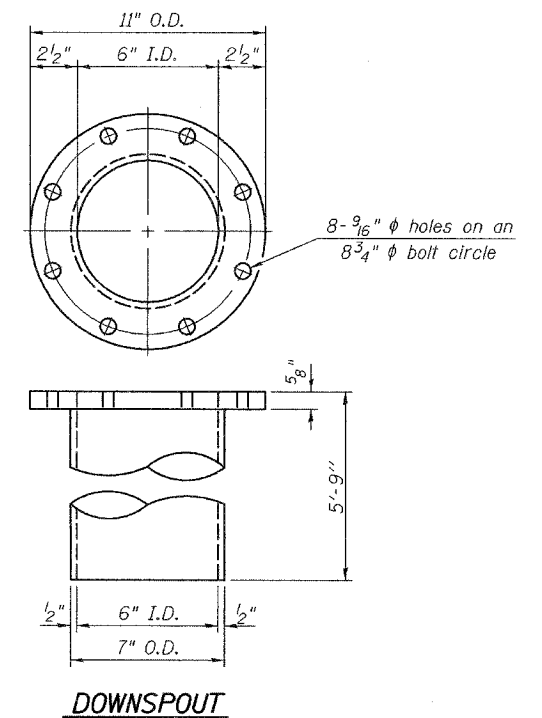
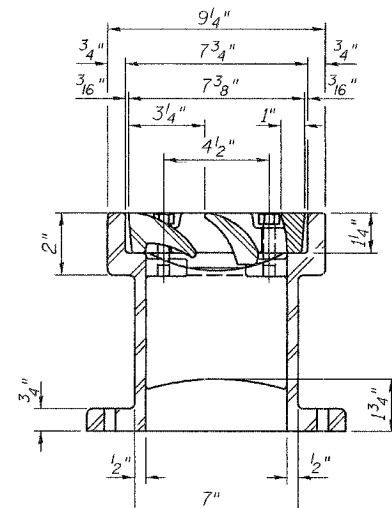
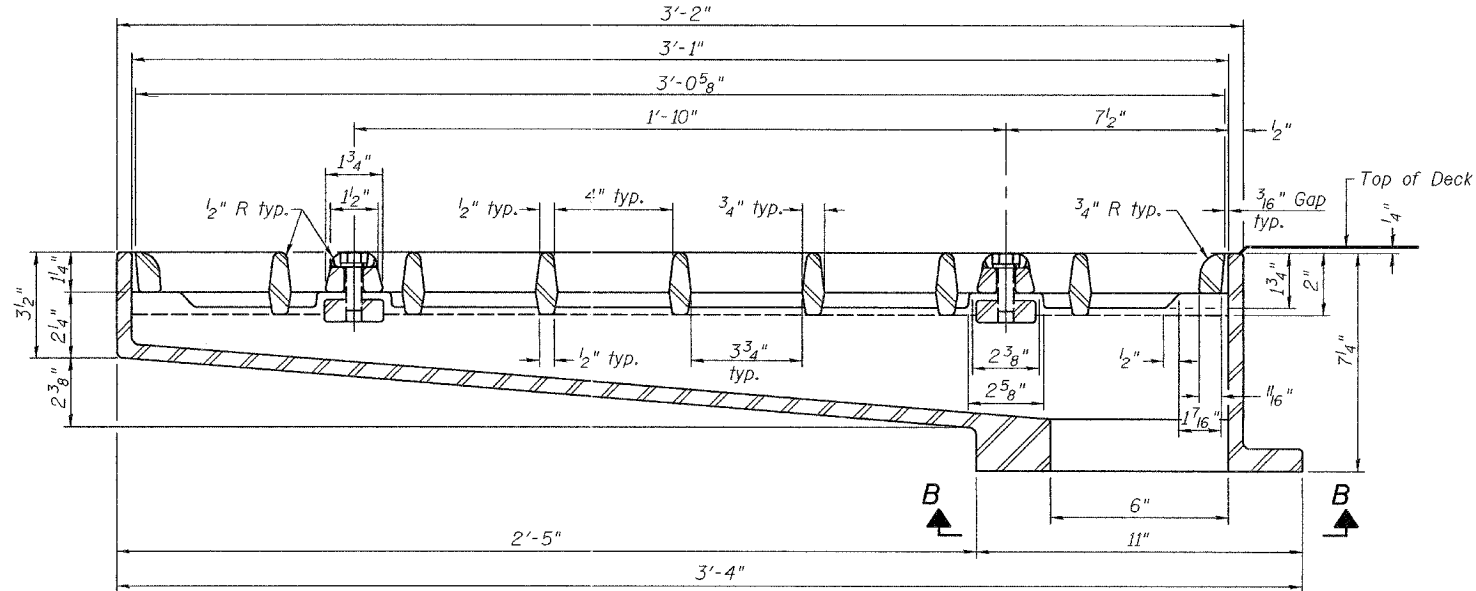
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 27 SHEETS
F.A.P. 857	101BR-6	WHITE	100	29	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #98960

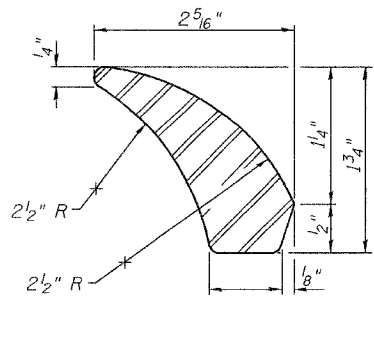
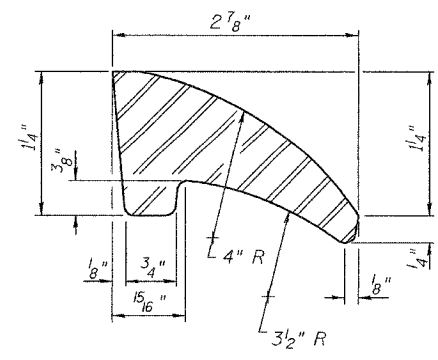


Drill and tap 8 holes for
3/4"-10 UNC bolts on 8 3/4"
diameter bolt circle

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.
Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



SECTION A-A
See sheet 7 of 27 for scupper location relative to parapet.



BOLT HOLE DETAIL

FIRST VANE DETAIL

SECOND VANE DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-33	Each	6

DRAINAGE SCUPPER, DS-33
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

DESIGNED	W. A. Beisner
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4 2006
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF PUBLIC DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	30
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

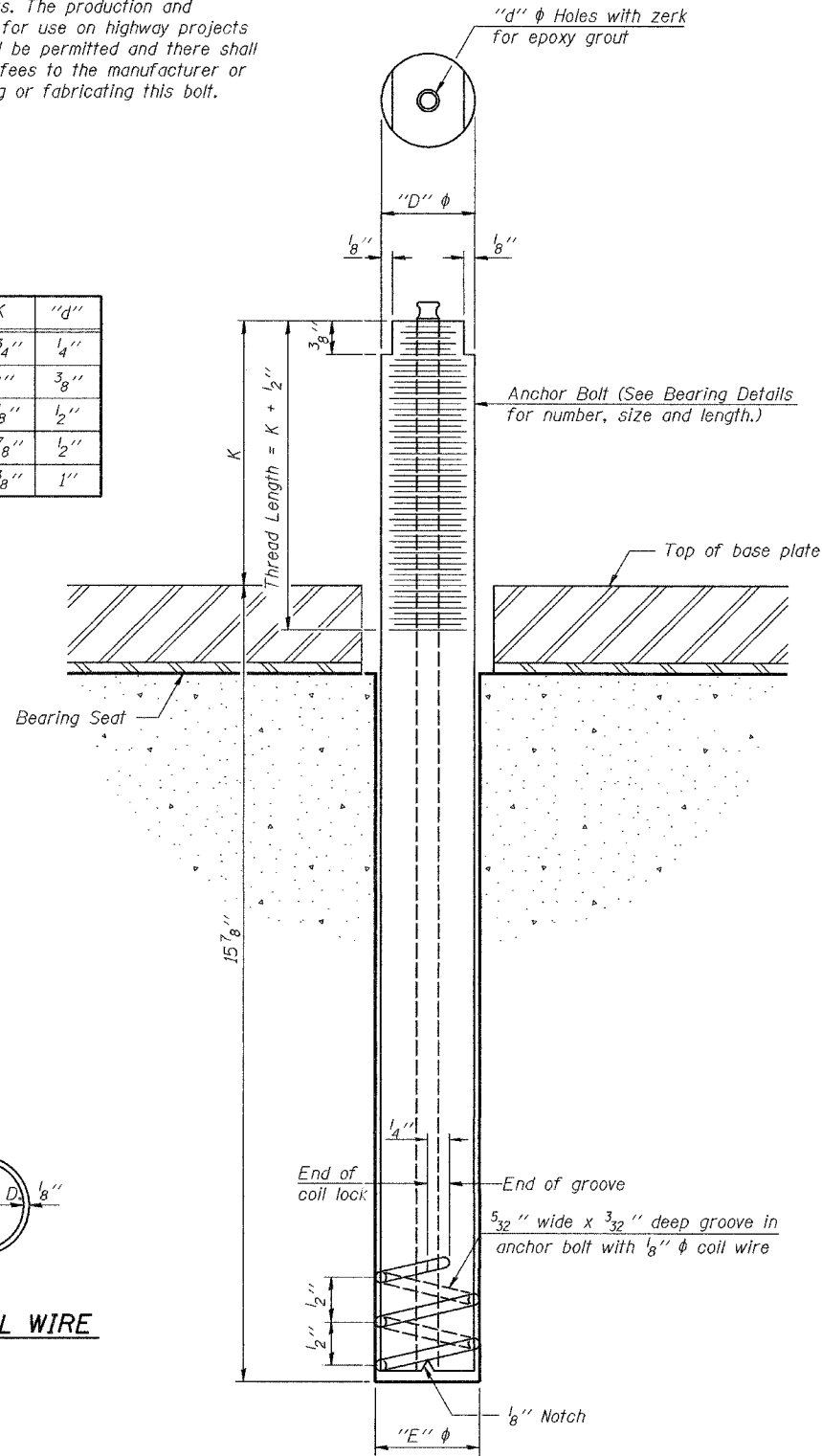
Contract #98960

SHEET NO. 11

27 SHEETS

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

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



ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.

2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

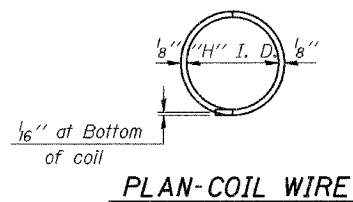
The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Piers	A325

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



PLAN-COIL WIRE

DESIGNED	W. A. Beisner
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	WAB/FT

EXAMINED	December 4 2006	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

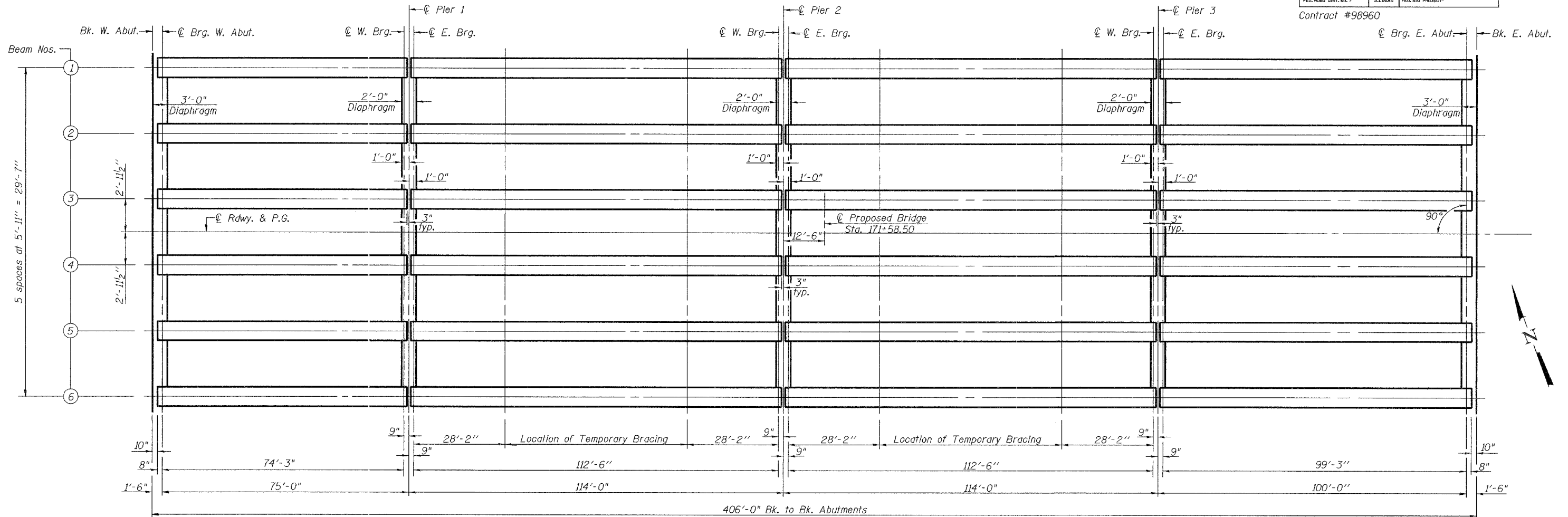
ABB-1 10-22-04

ANCHOR BOLT DETAILS FOR BEARINGS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	10IBR-6	WHITE	100	31
SHEET NO. 12				
27 SHEETS				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #98960



	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.6 Sp. 4
I (in ⁴)	392638		392638		392638		392638
I' (in ⁴)	704136		704136		704136		704136
Sb (in ³)	12224		12224		12224		12224
Sb' (in ³)	15767		15767		15767		15767
St (in ³)	12715		12715		12715		12715
St' (in ³)	38393		38393		38393		38393
DC1 (K/ft.)	1.32		1.32		1.32		1.32
M DC1 (K-ft.)	891.0		2144.3		2144.3		1584.0
DC2 (K/ft.)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
M DC2 (K-ft.)	45.7	138.9	91.4	165.6	74.2	173.3	110.7
DW (K/ft.)	0.296	0.296	0.296	0.296	0.296	0.296	0.296
M DW (K-ft.)	90.2	274.1	180.4	326.8	146.4	342.0	218.4
M LL+I (K-ft.)	954.7	1178.0	1128.3	1278.7	1150.6	1294.9	1272.4

	W. Abut.	Pier 1 Sp1	Pier 1 Sp2	Pier 2 Sp2	Pier 2 Sp3	Pier 3 Sp3	Pier 3 Sp4	E. Abut.
R DC1 (K)	49.5	49.5	75.2	75.2	75.2	75.2	66.0	66.0
* R DC2 (K)	3.8	7.9	7.9	8.7	8.7	9.0	9.0	5.8
* R DW (K)	7.4	15.6	15.6	17.1	17.1	17.6	17.6	11.4
* R LL+I (K)	69.6	65.0	65.0	69.3	69.3	69.8	69.8	75.6
R (Total) (K)	130.3	138.0	163.7	170.3	170.3	171.6	162.4	158.8

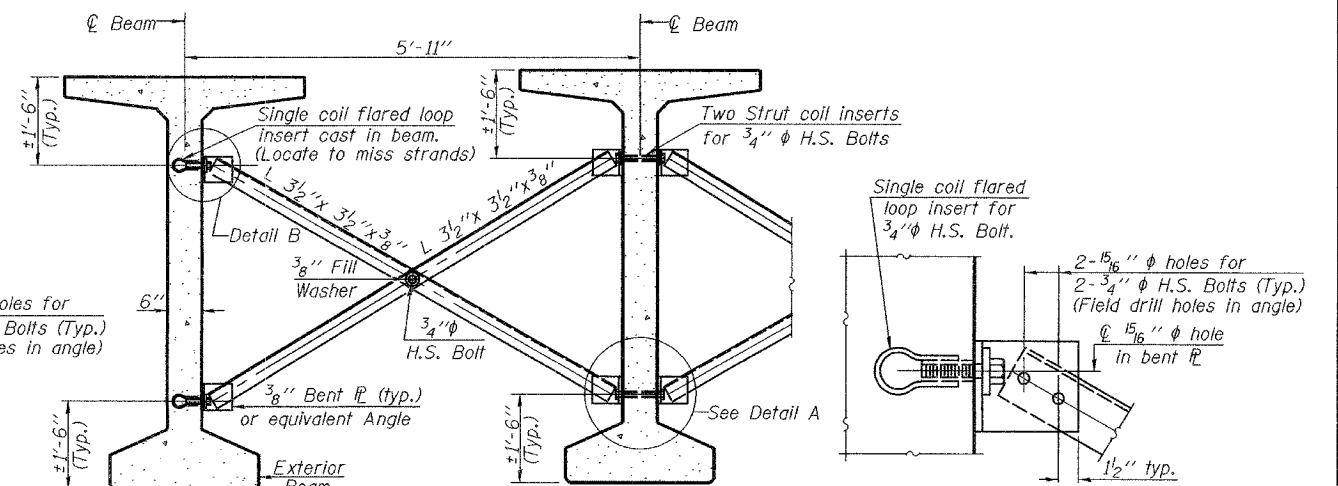
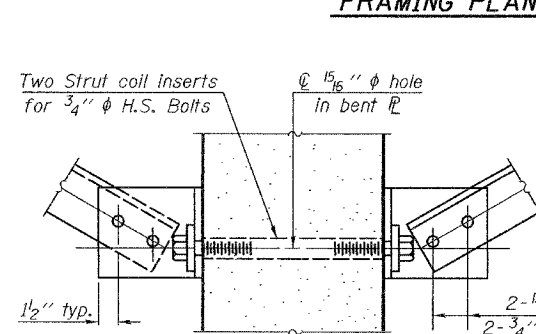
*The total RDC2, RDW and R LL+I are assumed to be distributed evenly to each bearing line at a Pier regardless of the span ratios.

DESIGNED Daniel H. Tobias
CHECKED W. A. Beisner
DRAWN R. Sommer
CHECKED WAB/FT

December 4, 2006
EXAMINED Thomas J. Domagala
PASSED Ralph E. Anderson

I and I' are the moment of inertia and composite moment of inertia of the beam section. Sb and Sb' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam. St and St' are the non-composite and composite section modulus for the top fiber of the prestressed beam. M DC1 is the unfactored moment due to the non-composite dead load. It is conservatively calculated at 0.5 of the span. M DC2 is the unfactored moment due to the composite dead load (superimposed excluding future wearing surface). M DW is the unfactored moment due to the composite wearing surface (superimposed future wearing surface only). M LL+I is the unfactored moment due to the Live Load plus dynamic load allowance (impact) on the composite section.

FRAMING PLAN



Notes: Fasteners shall be high strength bolts. Bolts 3/4" ϕ , open holes 15/16" ϕ . Details other than those shown are allowed subject to approval of the Engineer. Two hardened washers shall be required over all holes in bracing connection. All inserts shall be galvanized in accordance with AASHTO M 232. Remove temporary bracing after falsework for deck is removed and fill inserts with 3/4" ϕ bolts galvanized in accordance with AASHTO M 232. For insert locations see sheet 14 of 27. Temporary bracing, inserts and all associated hardware are included with Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63".

FRAMING PLAN
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

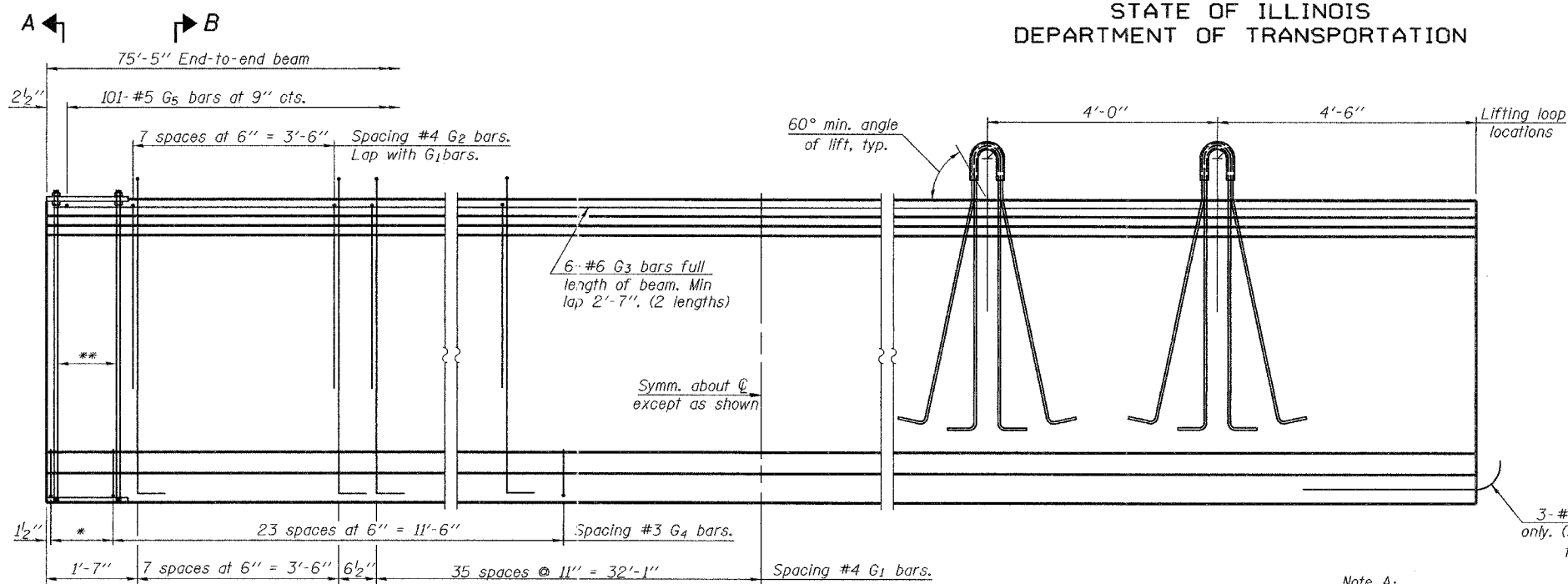
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	106	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #98960

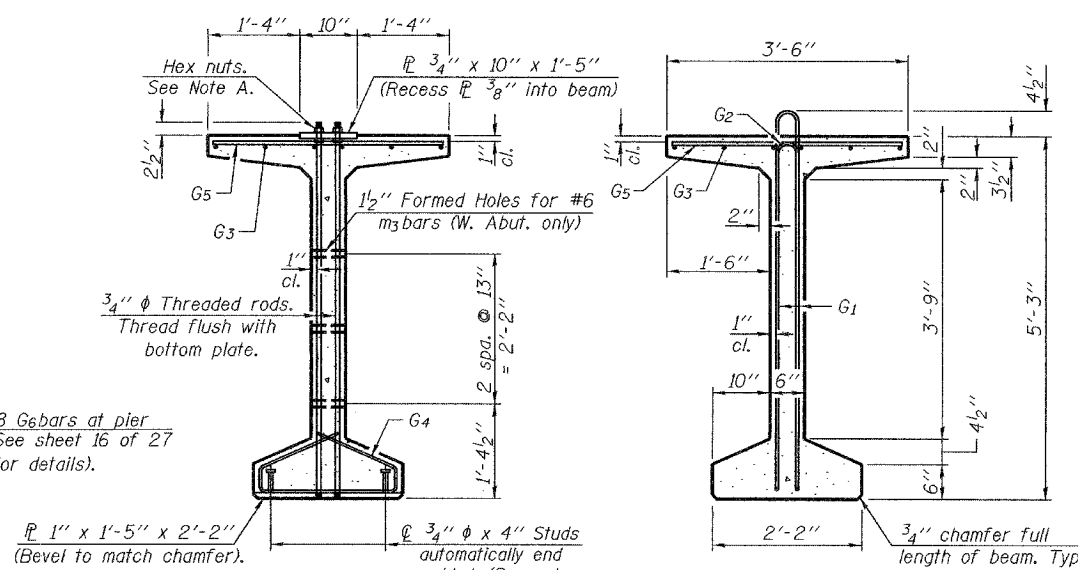
SHEET NO. 13

27 SHEETS



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*4 spaces at 3 1/4" = 1'-1".
**5-3/4" φ threaded dowel rods at 3 1/4" cts., each face.

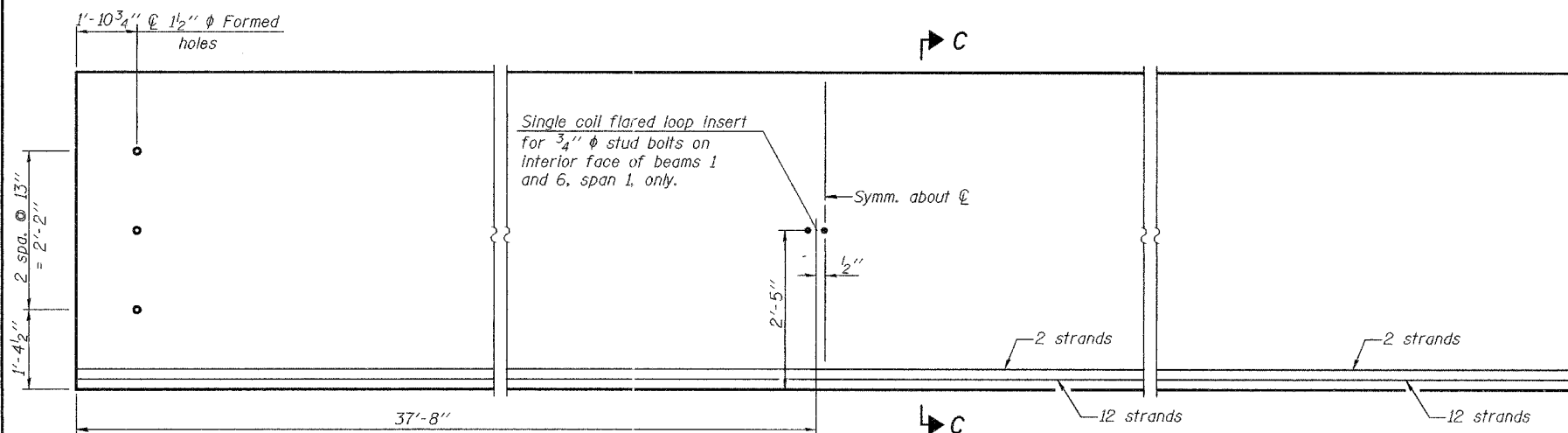


SECTION A-A

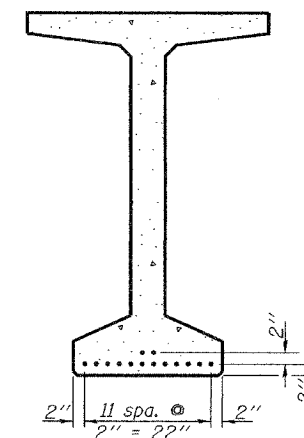
SECTION B-B

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

3-#8 G6 bars at pier only. (See sheet 16 of 27 for details).
1" x 1'-5" x 2'-2" (Bevel to match chamfer).
3/4" φ Stud automatically end welded. (Space to miss strands).



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	88	#4	11'-11"	U
G2	16	#4	6'-2"	U
G3	12	#6	38'-10"	—
G4	56	#3	4'-11"	U
G5	101	#5	3'-4"	—
G6	3	#8	3'-9"	U

***For information only.

Notes:
See sheet 16 of 27 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5000 psi.

DESIGNED Daniel H. Tobias
CHECKED W. A. Beisner
DRAWN R. Sommer
CHECKED WAB/FT

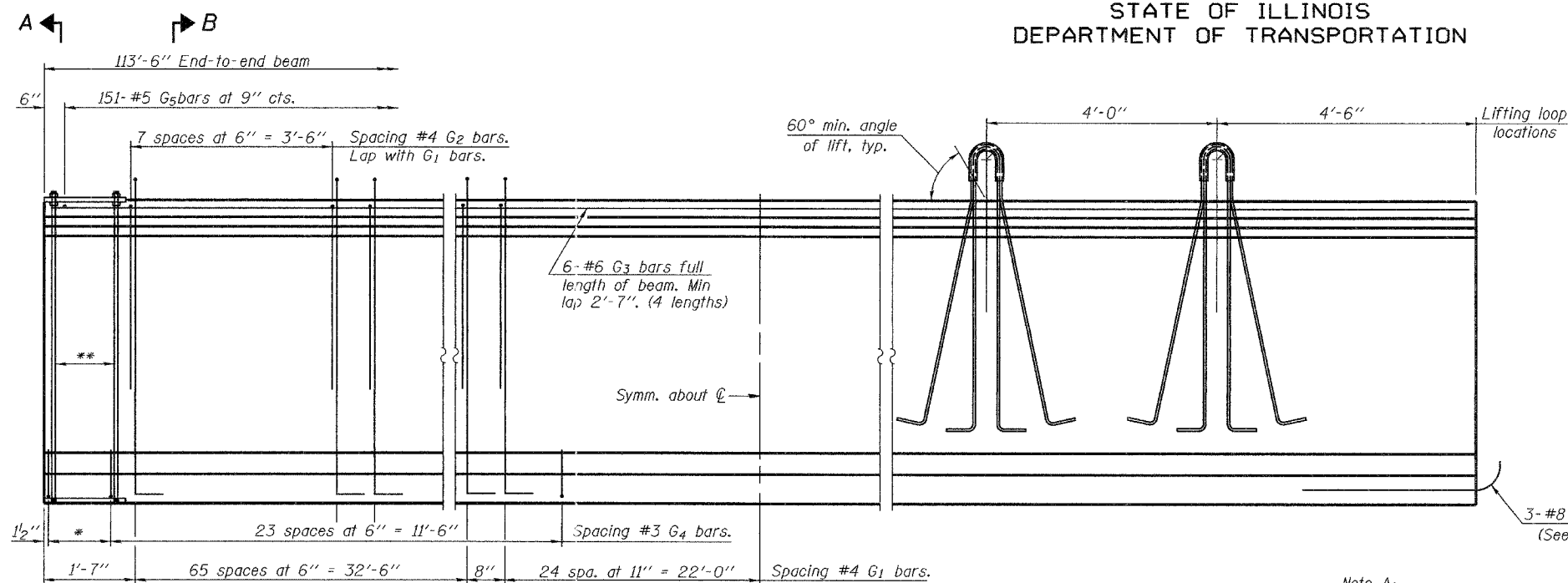
December 4, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

**63" PPC BULB T- BEAM
DETAILS-SPAN 1
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

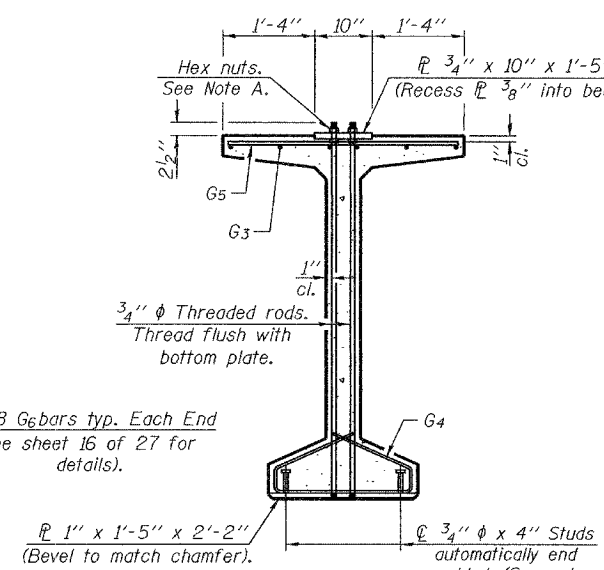
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.	SHEET NO. 14
F.A.P. 857	101BR-6	WHITE	1006	33	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #98960

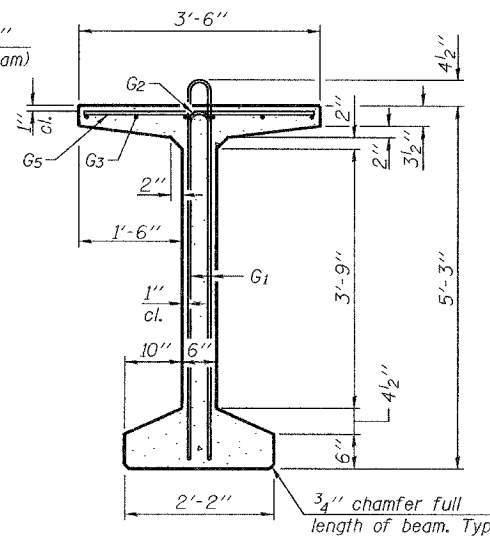


ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*4 spaces at 3'-4" = 1'-1".
**5-3/4" φ threaded dowel rods at 3'-4" cts., each face.

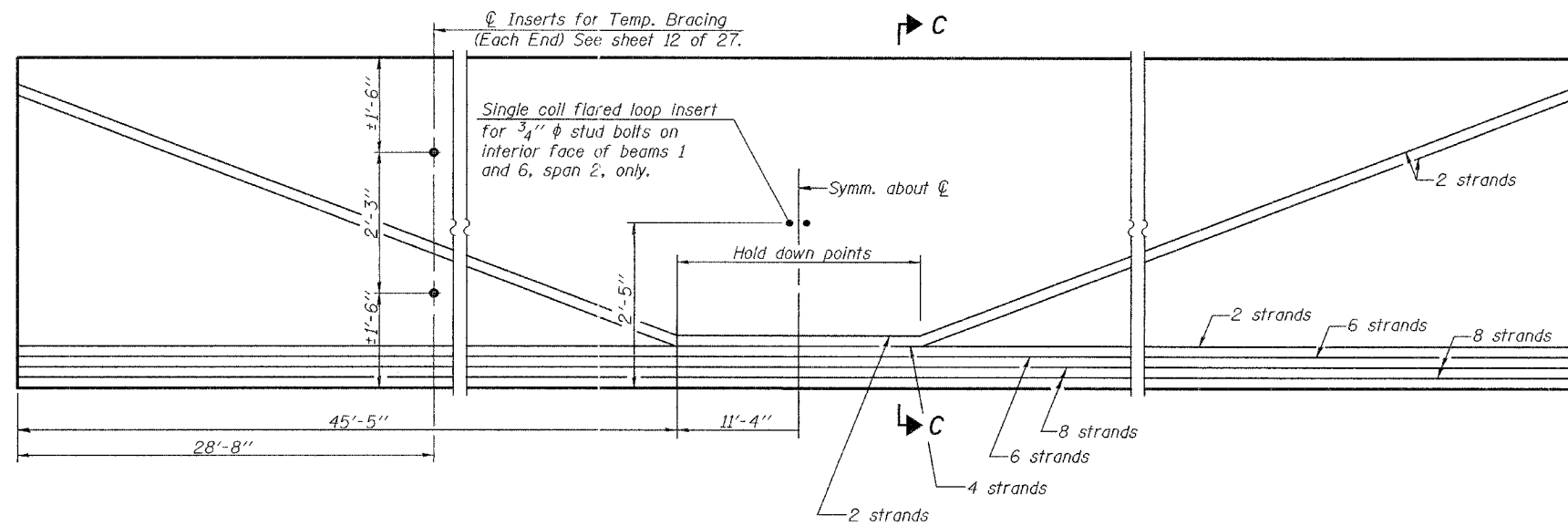


SECTION A-A

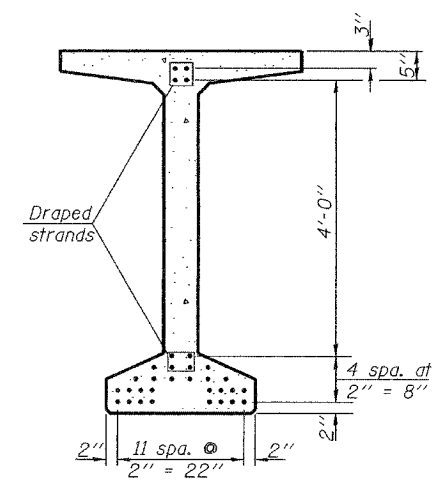


SECTION B-B

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	182	#4	11'-11"	U
G2	16	#4	6'-2"	U
G3	24	#6	30'-4"	—
G4	56	#3	4'-11"	U
G5	151	#5	3'-4"	—
G6	6	#8	3'-9"	—

***For information only.

Notes:
See sheet 16 of 27 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5000 psi.

DESIGNED	Daniel H. Tobias
CHECKED	W. A. Beisner
DRAWN	R. Sommer
CHECKED	WAB/FT

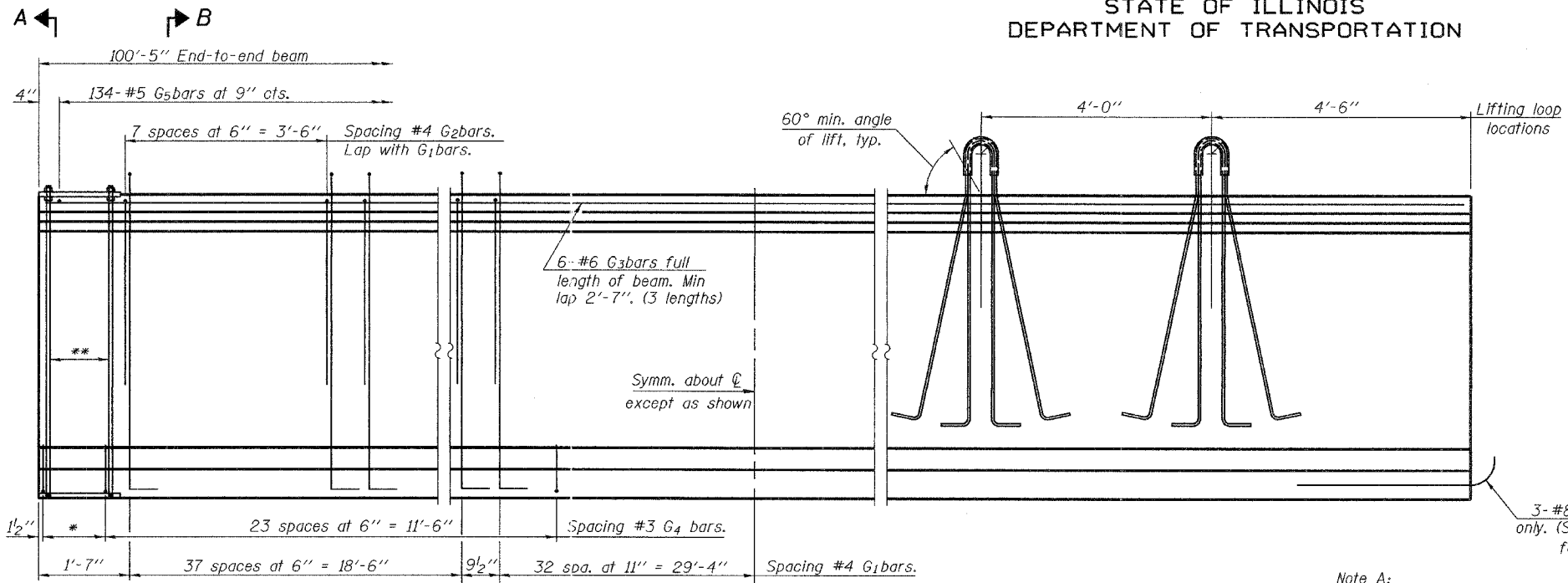
EXAMINED	Thomas J. Domagalaki	December 4, 2006
PASSED	Ralph E. Anderson	

**63" PPC BULB T-BEAM
DETAILS-SPAN 2 & 3
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

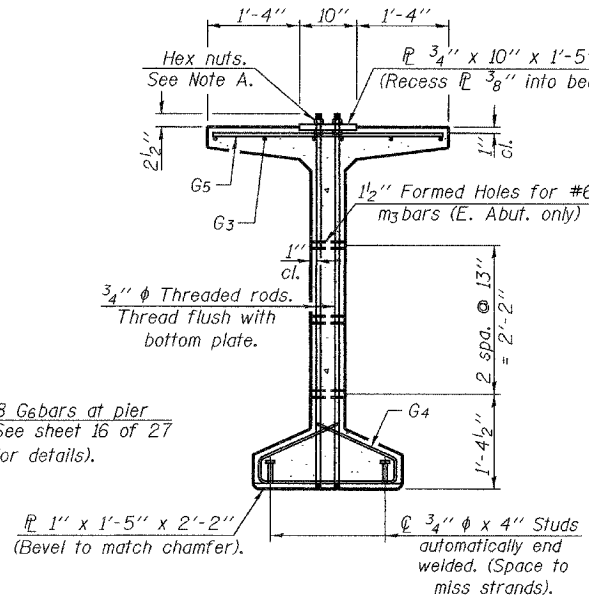
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15
F.A.P. 857	101BR-6	WHITE	100	34	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #98960

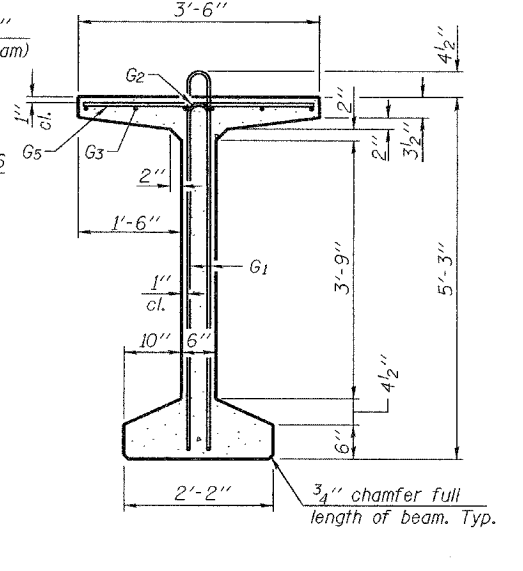


ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*4 spaces at 3/4" = 1'-1".
**5-3/4" φ threaded dowel rods at 3/4" cts., each face.



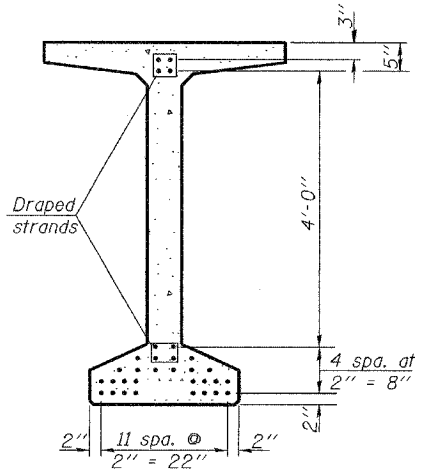
SECTION A-A



SECTION B-B

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

3-#8 G6 bars at pier only. (See sheet 16 of 27 for details).
1" x 1'-5" x 2'-2" (Bevel to match chamfer).
3/4" φ x 4" Studs automatically end welded. (Space to miss strands).



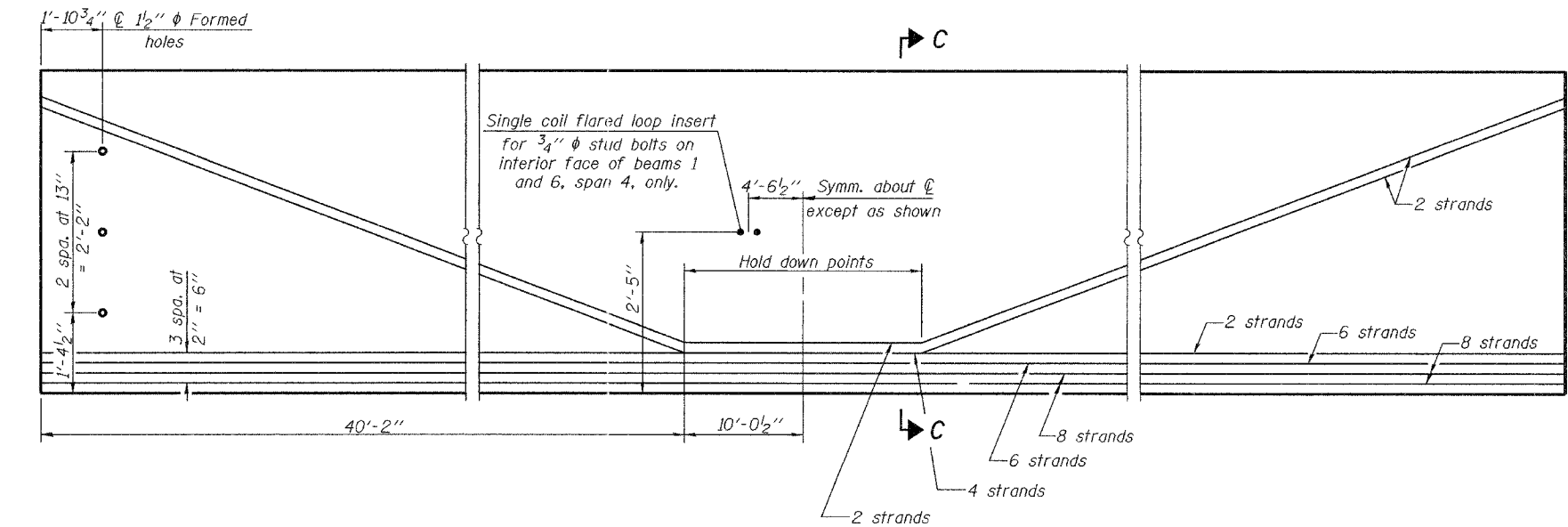
SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	142	#4	11'-11"	∩L
G2	16	#4	6'-2"	∩
G3	18	#6	35'-1"	—
G4	56	#3	4'-11"	∩
G5	134	#5	3'-4"	—
G6	3	#8	3'-9"	—

***For information only.

Notes:
See sheet 16 of 27 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5000 psi.



ELEVATION OF BEAM
(Showing prestressing steel)

DESIGNED Daniel H. Tobias
CHECKED W. A. Beisner
DRAWN R. Sommer
CHECKED WAB/FT

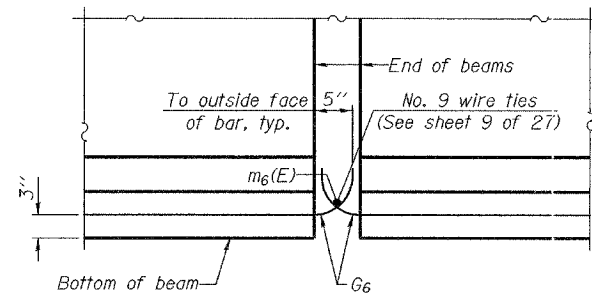
December 4, 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

**63" PPC BULB T-BEAM
DETAILS-SPAN 4
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071**

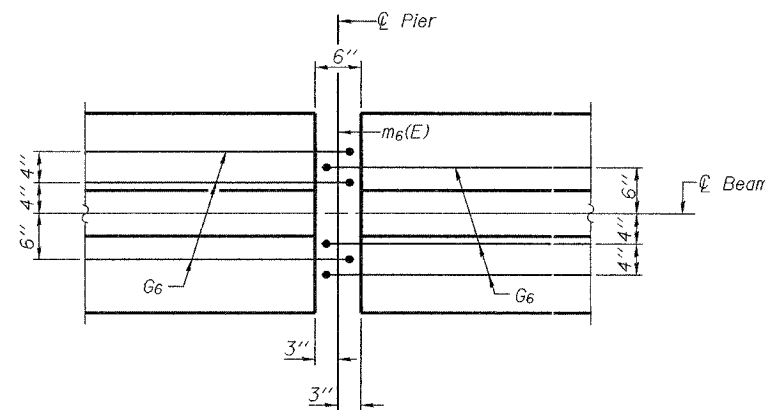
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
F.A.P. 857	101BR-6	WHITE	100	35	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

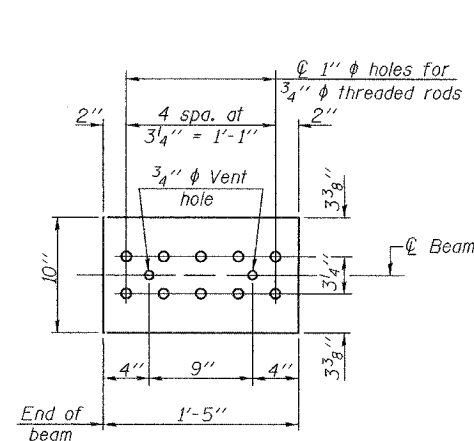
Contract #98960



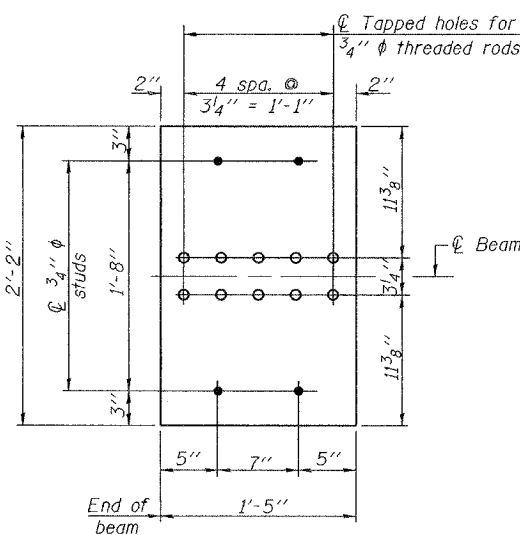
ELEVATION OF BEAM AT PIER



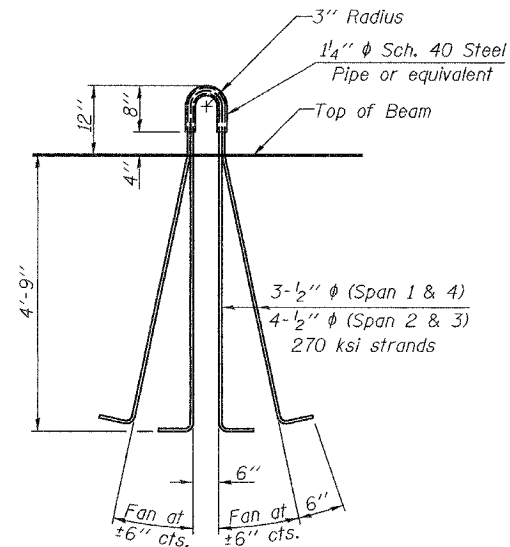
PLAN OF BEAM AT PIER



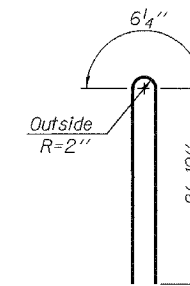
TOP PLATE



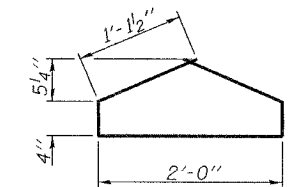
BOTTOM PLATE



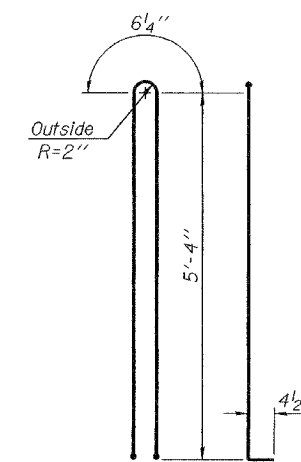
LIFTING LOOP DETAIL



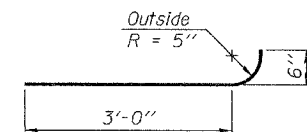
BAR G₂



BAR G₄



BAR G₁



BAR G₆

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	2417

63" PPC BULB T-BEAM DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

DESIGNED Daniel H. Tobias
CHECKED W. A. Beisner
DRAWN R. Sommer
CHECKED WAB/FT

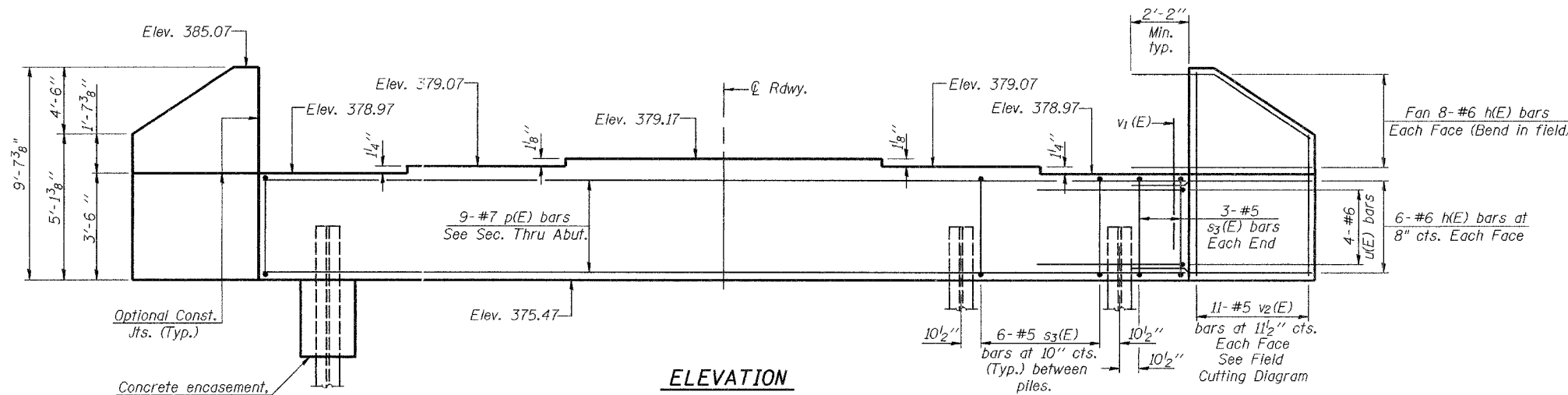
December 4 2006
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

Note: Four steps monolithically with cap.

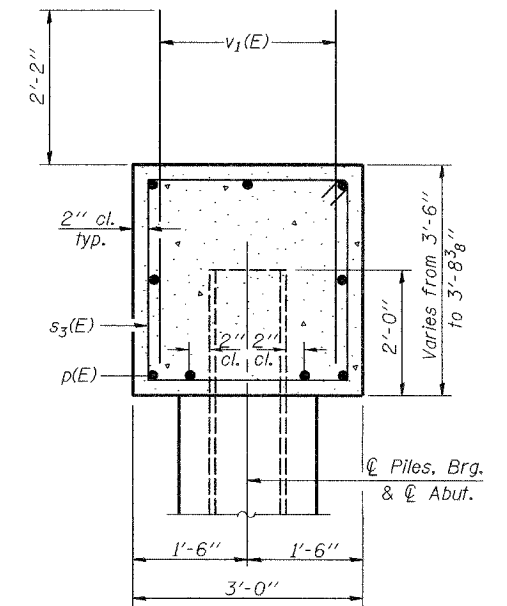
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 10IBR-6	COUNTY WHITE	TOTAL SHEETS 100	SHEET NO. 36	SHEET NO. 17 27 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

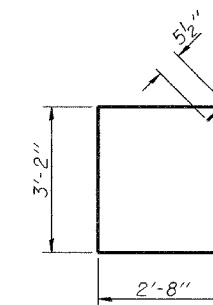
Contract #98960



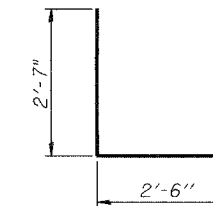
ELEVATION



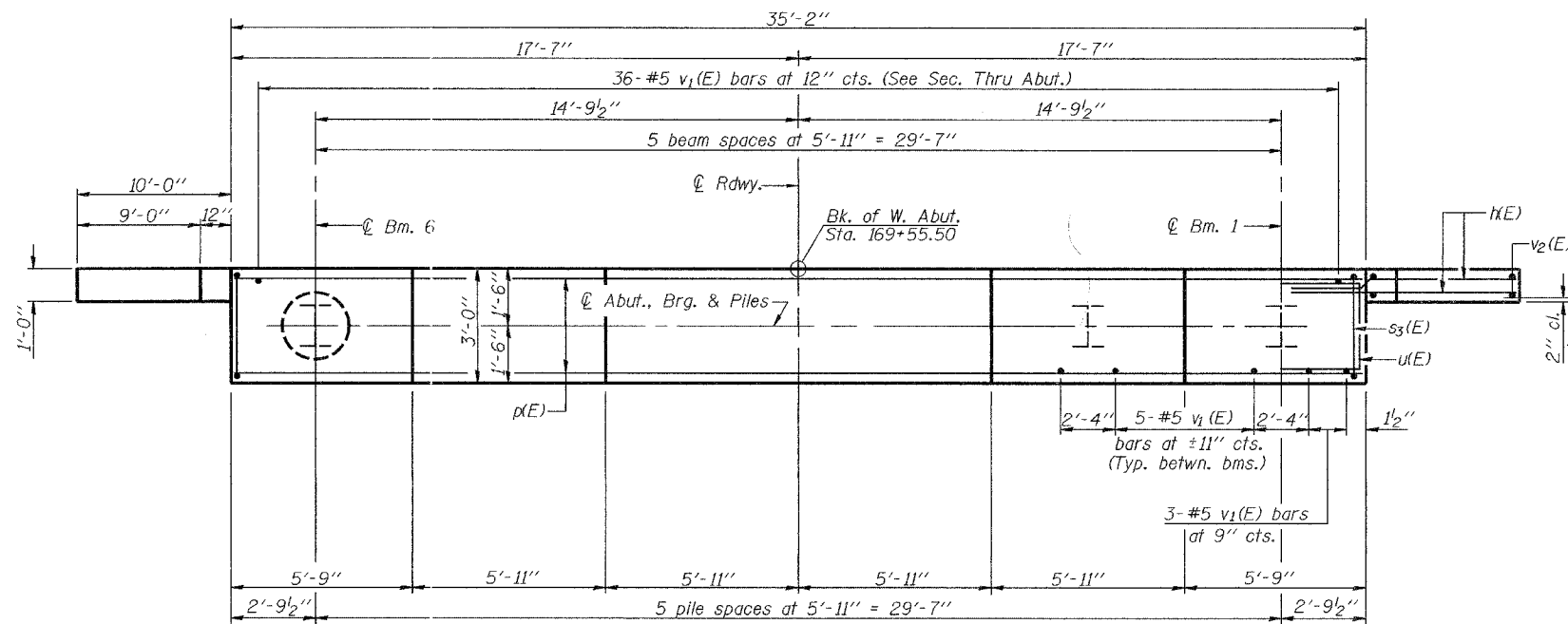
SEC. THRU ABUT.



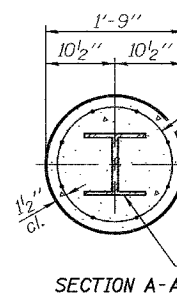
BAR s3(E)



BAR u(E)



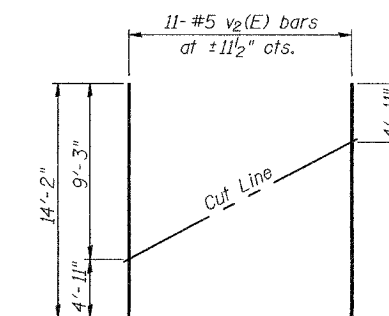
PLAN



SECTION A-A

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

PILE ENCASUREMENT DETAIL



FIELD CUTTING DIAGRAM

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	13'-2"	□
p(E)	9	#7	34'-10"	□
s3(E)	36	#5	12'-7"	□
u(E)	8	#6	7'-8"	□
v1(E)	67	#5	4'-4"	□
v2(E)	22	#5	14'-2"	□
Concrete Structures		Cu. Yd.	18.4	
Reinforcement Bars, Epoxy Coated		Pound	2940	
Furnishing Steel Piles HP10 x 57		Foot	325	
Driving Piles		Foot	325	
Test Pile Steel HP10 x 57		Each	1	
Structure Excavation		Cu. Yd.	37.0	
Concrete Encasement		Cu. Yd.	1.5	

**WEST ABUTMENT
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071**

DESIGNED W. A. Beisner
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED WAB/FT

December 4 2006
EXAMINED *Thomas J. Domagalaki*
 ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

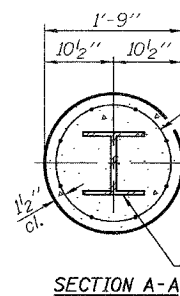
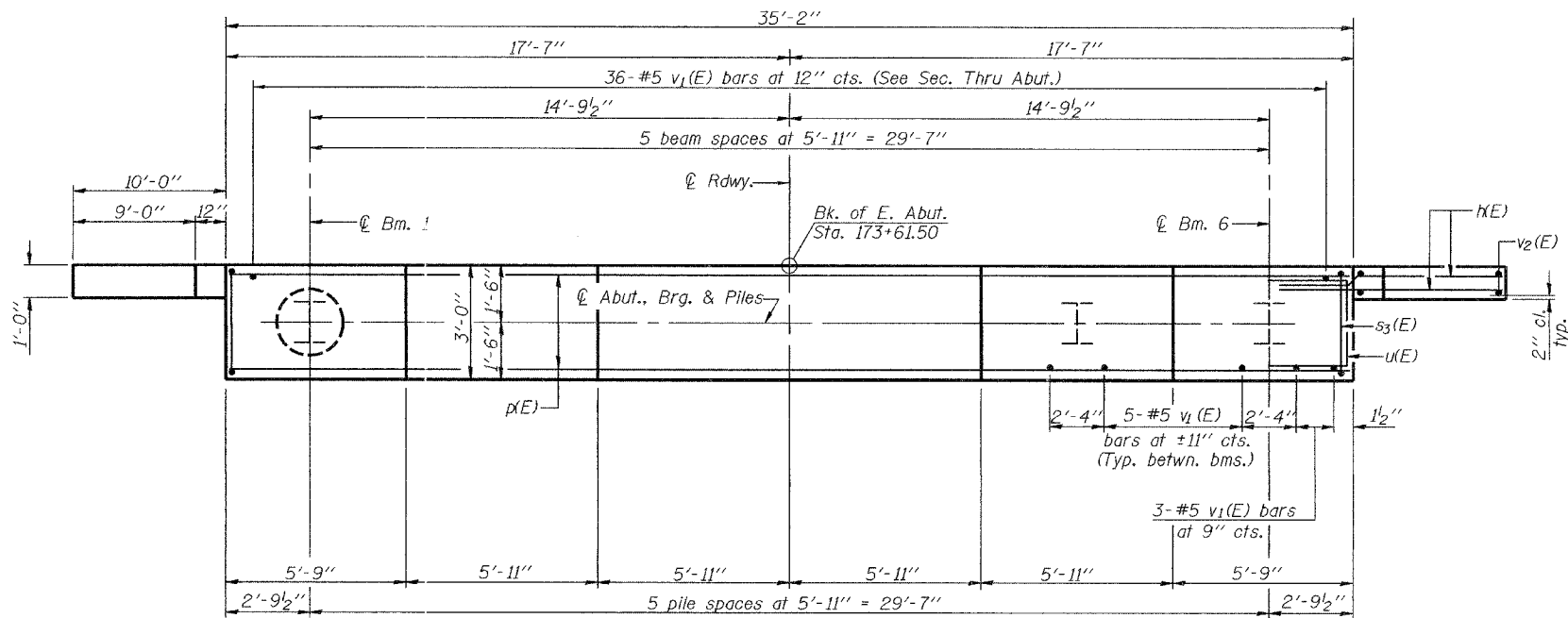
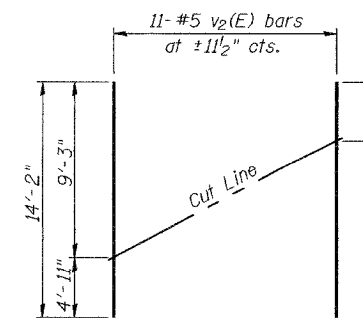
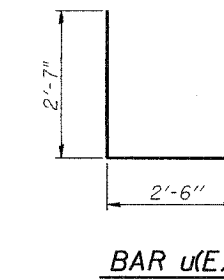
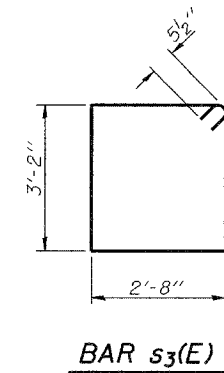
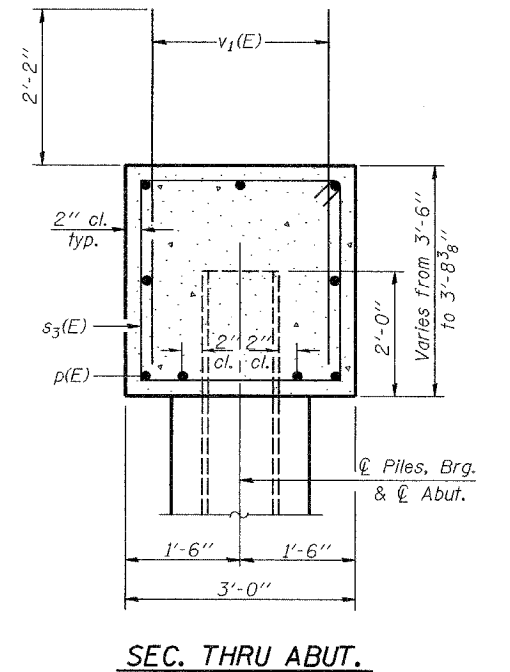
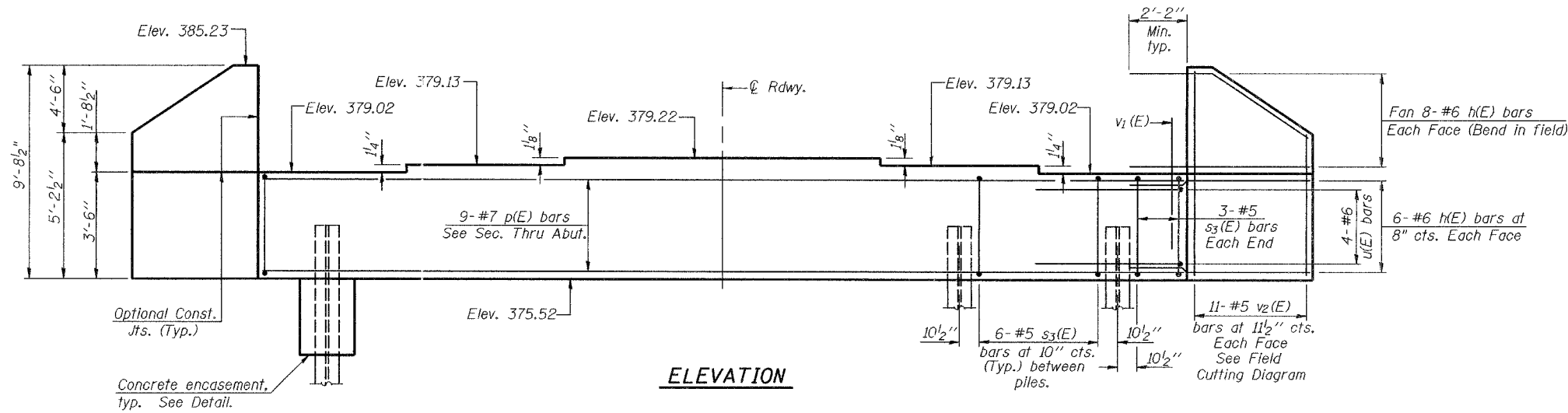
PILE DATA

Pile Type: Steel HP 10 x 57
 Nominal Required Bearing: = 376 kips
 Factored Resistance Available: = 188 kips
 Est. Length: 65'
 No. of Production Piles: 5
 No. of Test Piles: 1

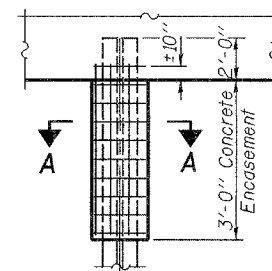
Note: Four steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 10IBR-6	COUNTY WHITE	TOTAL SHEETS 100	SHEET NO. 37	SHEET NO. 18 27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #98960		



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



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	13'-2"	—
p(E)	9	#7	34'-10"	—
s ₃ (E)	36	#5	12'-7"	□
u(E)	8	#6	7'-8"	□
v ₁ (E)	67	#5	4'-4"	—
v ₂ (E)	22	#5	14'-2"	—
Concrete Structures			Cu. Yd.	18.5
Reinforcement Bars, Epoxy Coated			Pound	2940
Furnishing Steel Piles HP10 x 57			Foot	396
Driving Piles			Foot	396
Structure Excavation			Cu. Yd.	37.0
Concrete Encasement			Cu. Yd.	1.5

DESIGNED	W. A. Beisner
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4, 2006

EXAMINED *Thomas J. Demasakali*
ENGINEER OF BRIDGE DESIGN

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

PILE DATA

Pile Type: Steel HP 10 x 57
Nominal Required Bearing: = 445 kips
Factored Resistance Available: = 222.5 kips
Est. Length: 66'
No. of Production Piles: 6

EAST ABUTMENT
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

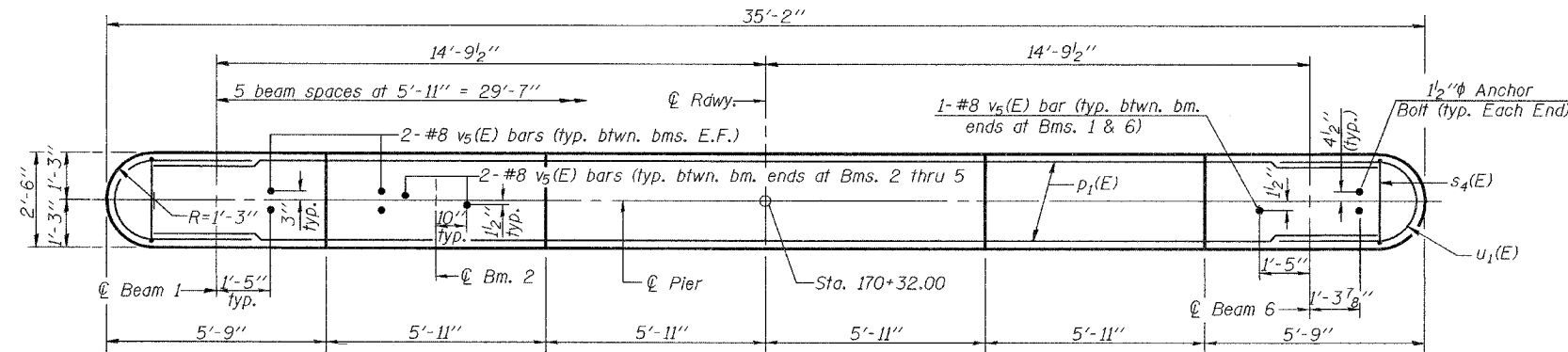
Notes: Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 11 of 27.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

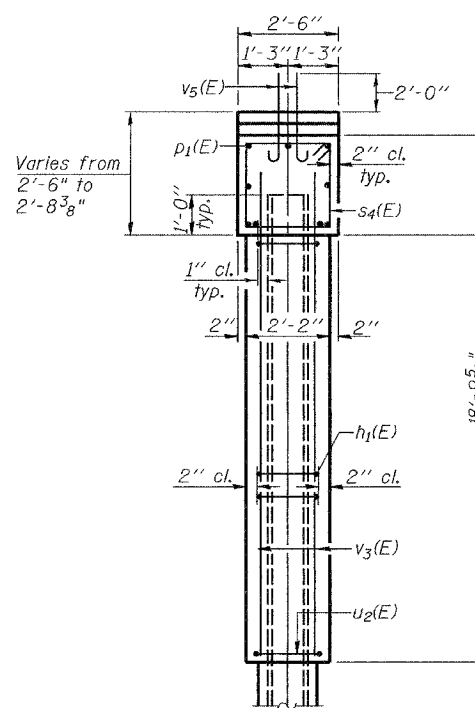
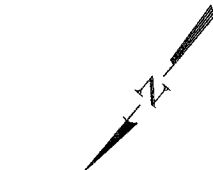
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 857	10IBR-6	WHITE	100	33
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
27 SHEETS

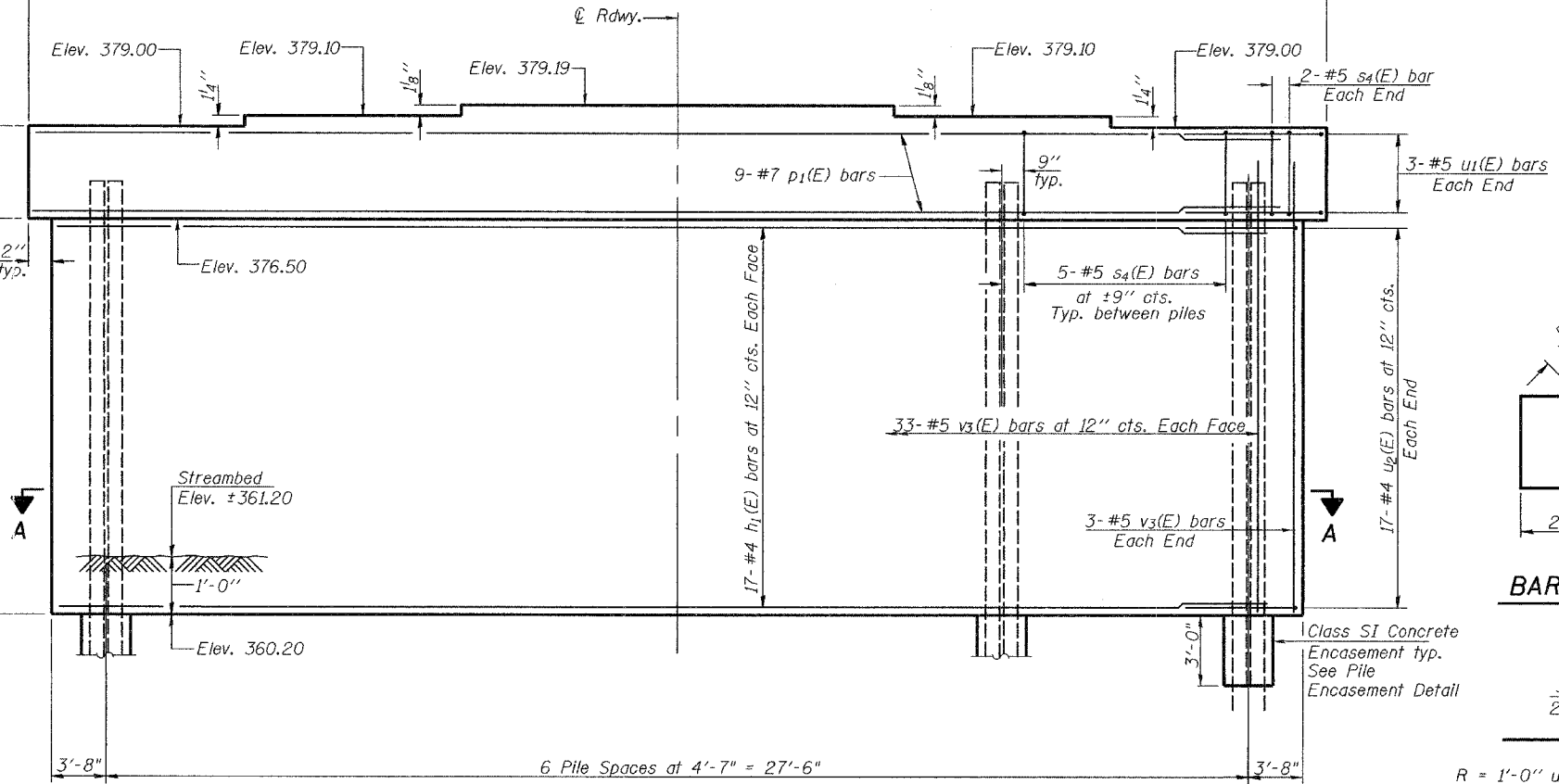
Contract #98960



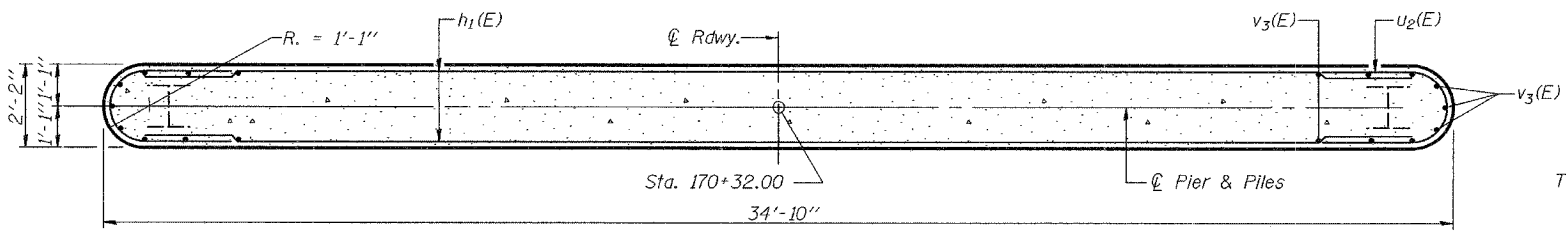
TOP PLAN



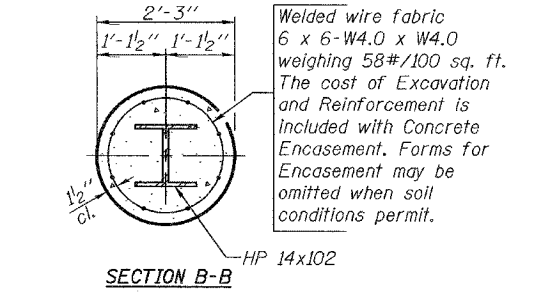
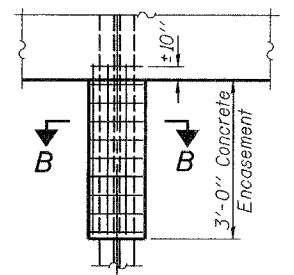
END VIEW



ELEVATION
(Looking East)



SECTION A-A



PILE ENCASEMENT DETAIL

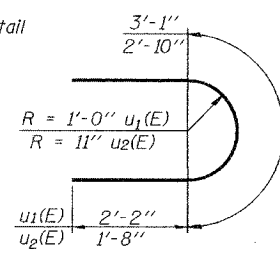
PILE DATA

Pile Type: Steel HP 14 x 102
Nominal Required Bearing: = 670 kips
Factored Resistance Available: = 335 kips
Est. Length: 68'
No. of Production Piles: 6
No. of Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	34	#4	32'-6"	—
p1(E)	9	#7	32'-8"	—
s4(E)	29	#5	9'-7"	□
u1(E)	6	#5	7'-5"	U
u2(E)	34	#4	6'-2"	U
v3(E)	72	#5	17'-6"	—
v5(E)	30	#8	4'-2"	—
Concrete Structures		Cu. Yd.	53.1	
Reinforcement Bars, Epoxy Coated		Pound	3460	
Furnishing Steel Piles HP14x102		Foot	408	
Driving Piles		Foot	408	
Test Piles Steel HP14x102		Each	1	
Structure Excavation		Cu. Yd.	53.2	
Underwater Structure Excavation Protection Location 1		Each	1	
Concrete Encasement		Cu. Yd.	2.9	

BAR s4(E)



BARS u1(E) & u2(E)

BAR v5(E)

PIER 1
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

DESIGNED W. A. Beisner
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED WAB/FT

December 4, 2006
EXAMINED Thomas J. Demagalaki
PASSED Ralph E. Carlson

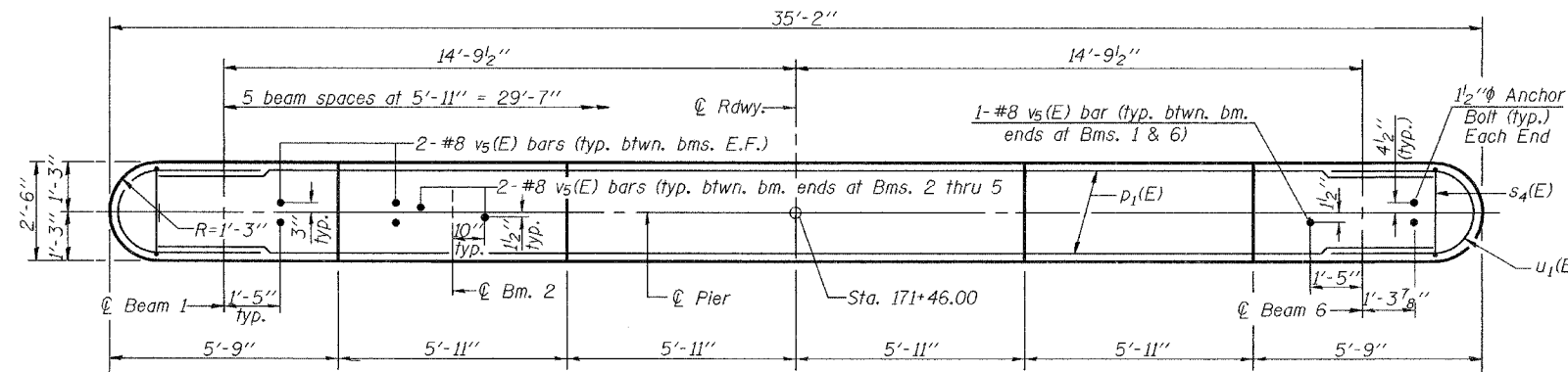
Notes: Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 For anchor bolt installation details see sheet 11 of 27.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

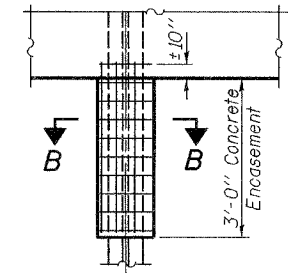
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	10IBR-6	WHITE	100	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 20
27 SHEETS

Contract #98960



TOP PLAN



SECTION B-B
 HP 14x102
 Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit.

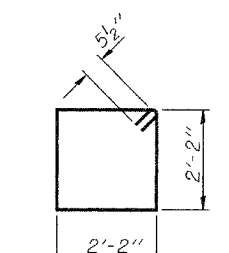
PILE ENCASMENT DETAIL

PILE DATA

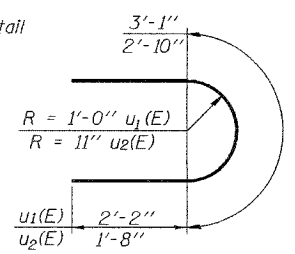
Pile Type: Steel HP 14 x 102
 Nominal Required Bearing: = 736 kips
 Factored Resistance Available: = 368 kips
 Est. Length: 66'
 No. of Production Piles: 7

BILL OF MATERIAL

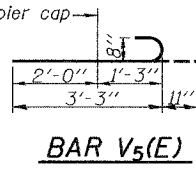
Bar	No.	Size	Length	Shape
h ₁ (E)	28	#4	32'-6"	—
p ₁ (E)	9	#7	32'-8"	—
s ₄ (E)	29	#5	9'-7"	□
u ₁ (E)	6	#5	7'-5"	U
u ₂ (E)	28	#4	6'-2"	U
v ₄ (E)	72	#5	14'-4"	—
v ₅ (E)	30	#8	4'-2"	—
Concrete Structures		Cu. Yd.	44.2	
Reinforcement Bars, Epoxy Coated		Pound	3070	
Furnishing Steel Piles HP14x102		Foot	462	
Driving Piles		Foot	462	
Structure Excavation		Cu. Yd.	8.9	
Underwater Structure Excavation Protection Location 2		Each	1	
Concrete Encasement		Cu. Yd.	2.9	



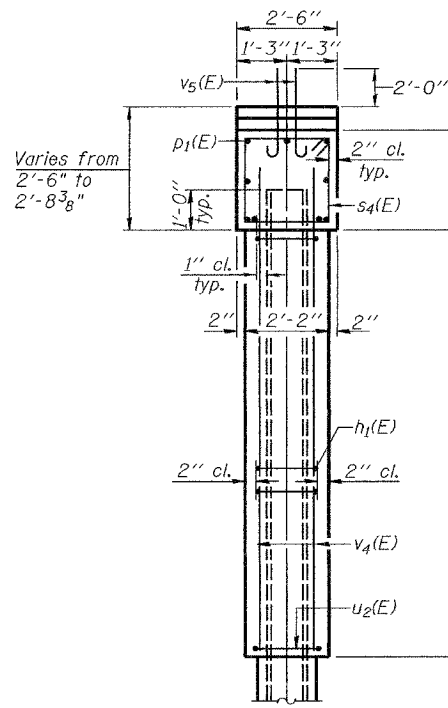
BAR s₄(E)



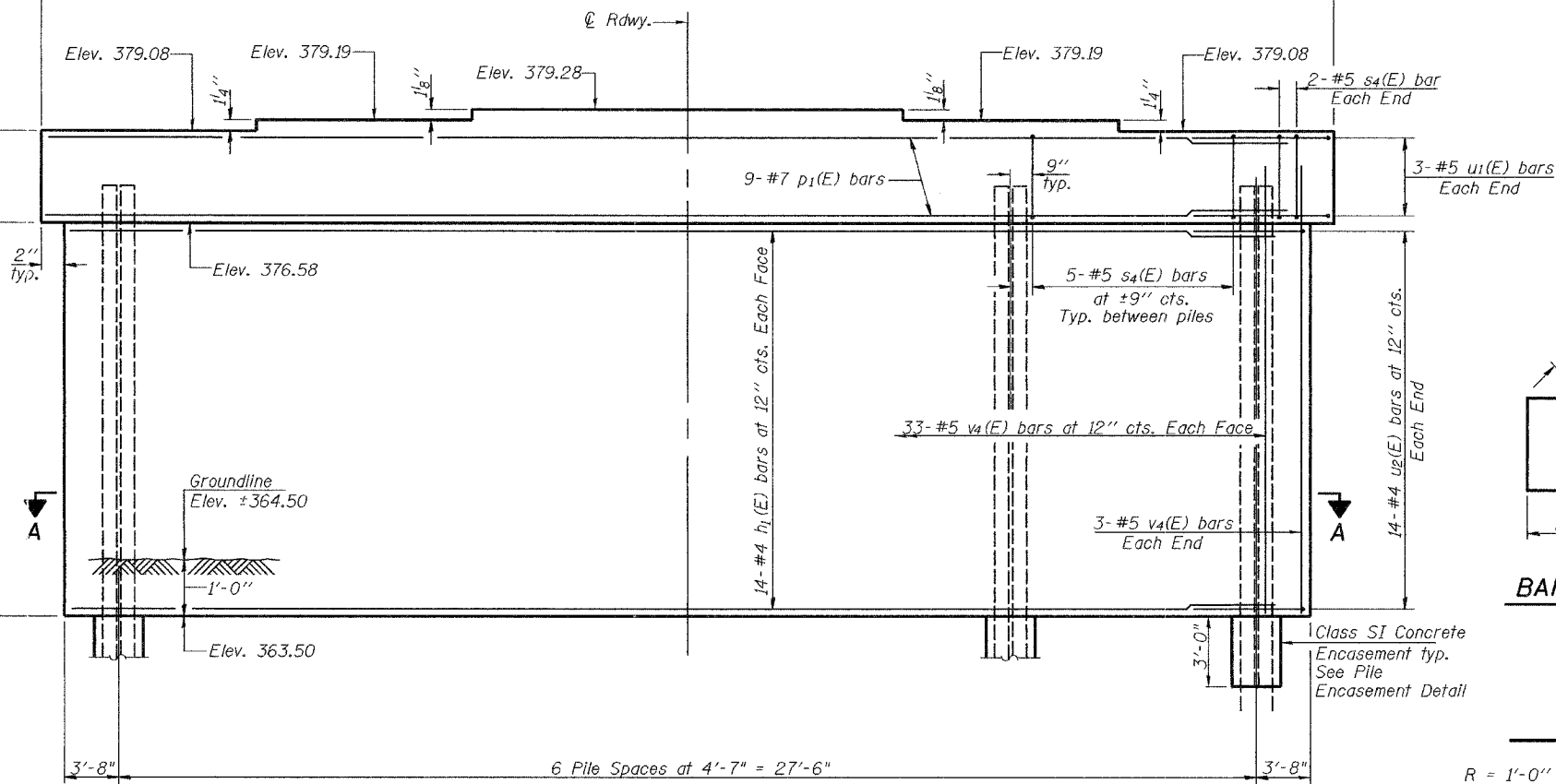
BARS u₁(E) & u₂(E)



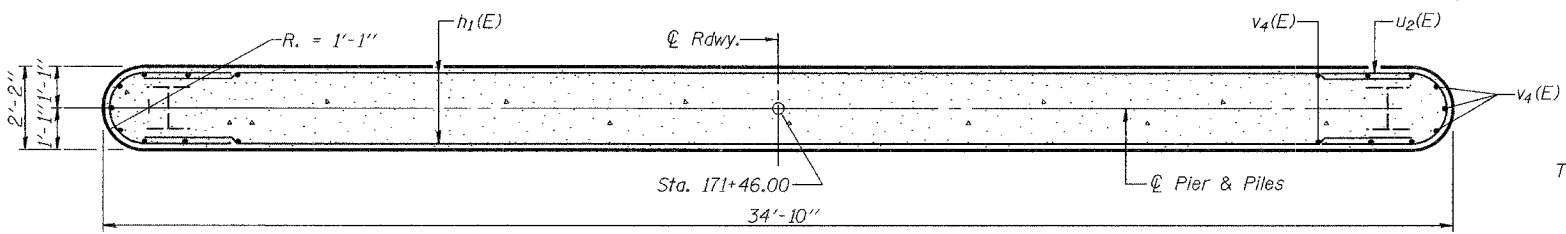
BAR v₅(E)



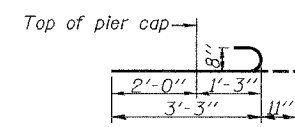
END VIEW



ELEVATION
 (Looking East)



SECTION A-A



Top of pier cap

DESIGNED W. A. Beisner
 CHECKED Fesseha Teklehaimanot
 DRAWN R. Sommer
 CHECKED WAB/FT

December 4 2006
 EXAMINED Thomas J. Domagalak
 PASSED Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

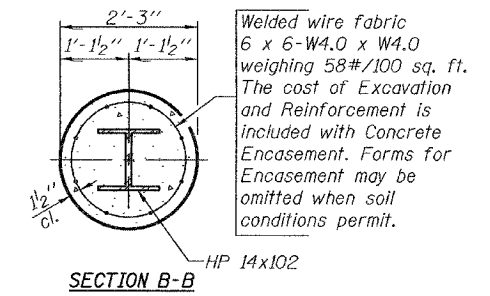
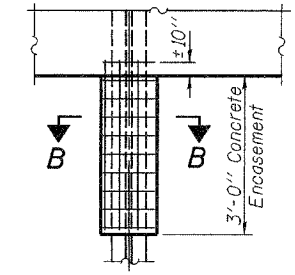
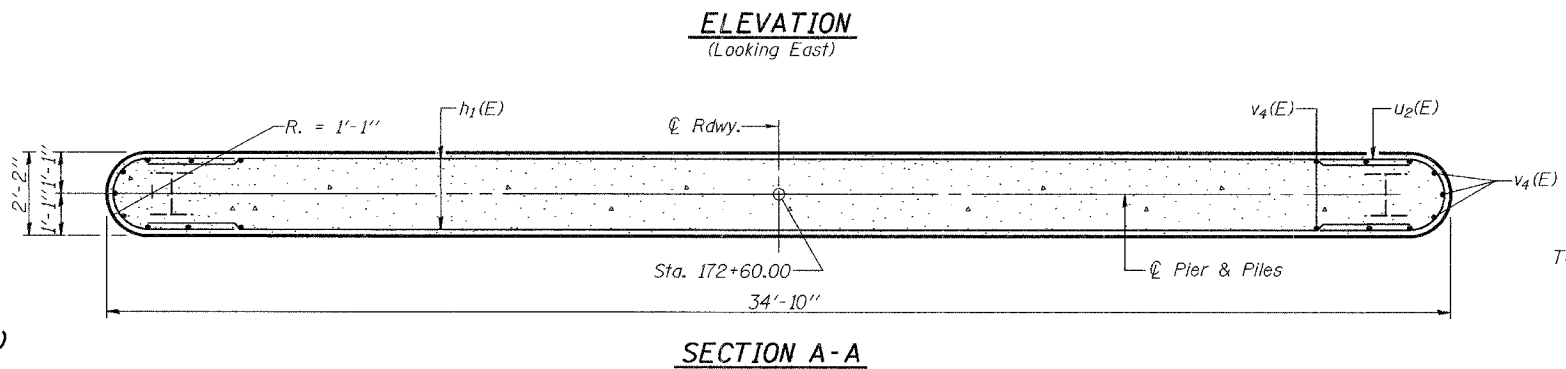
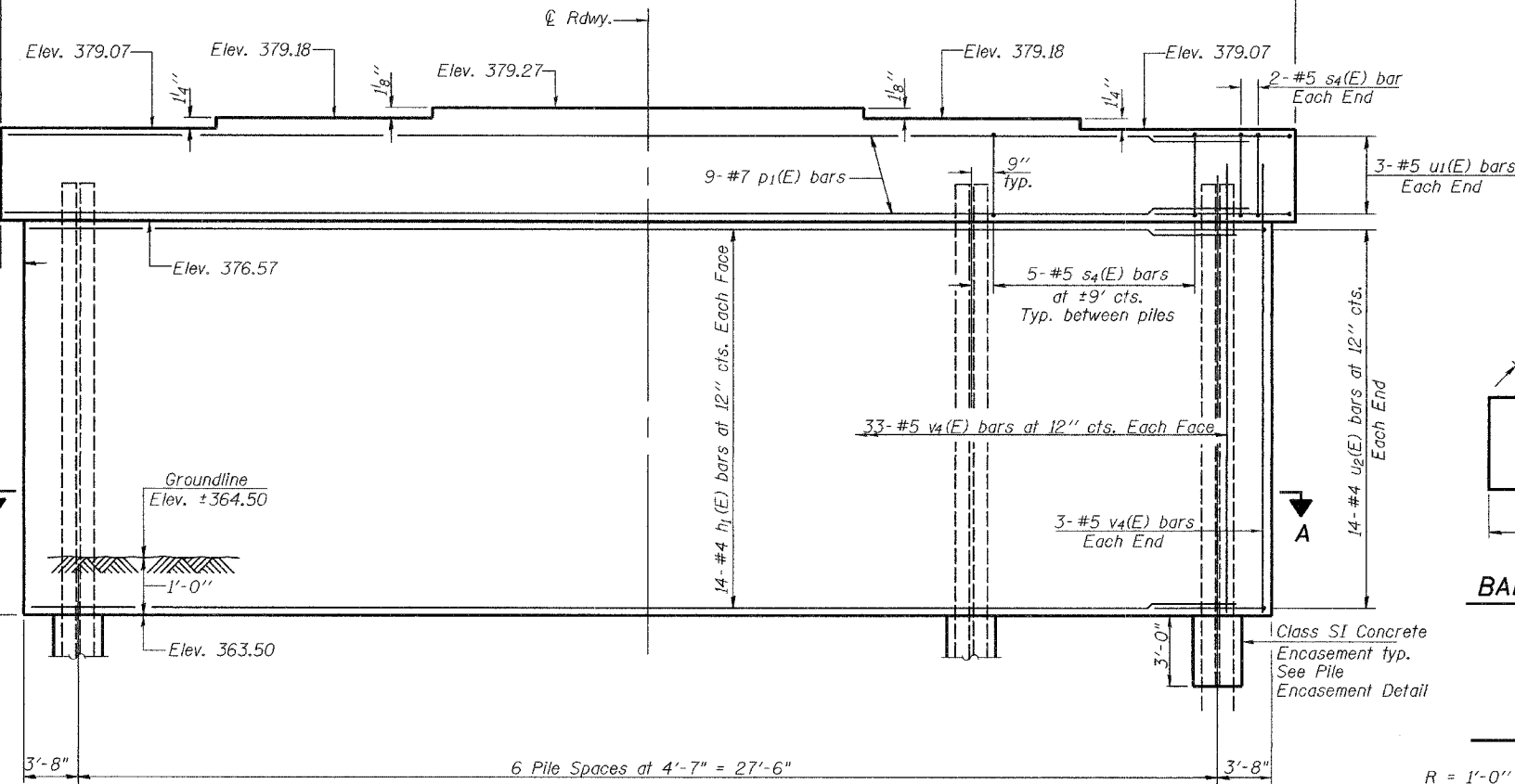
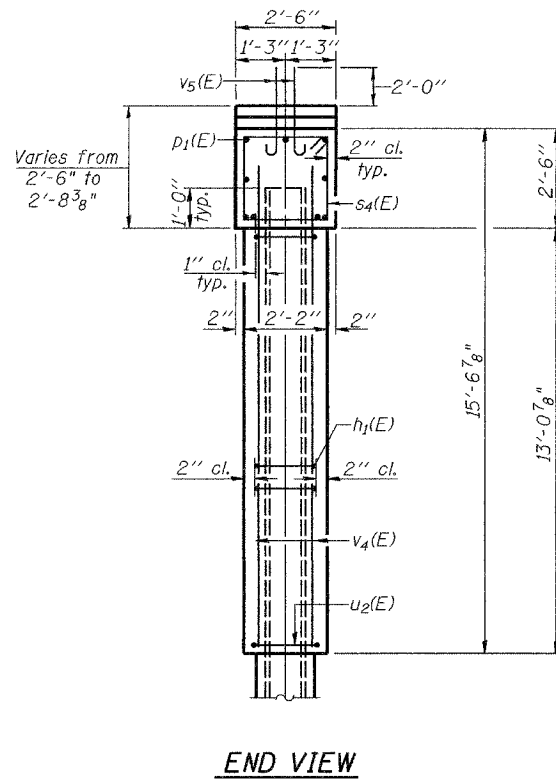
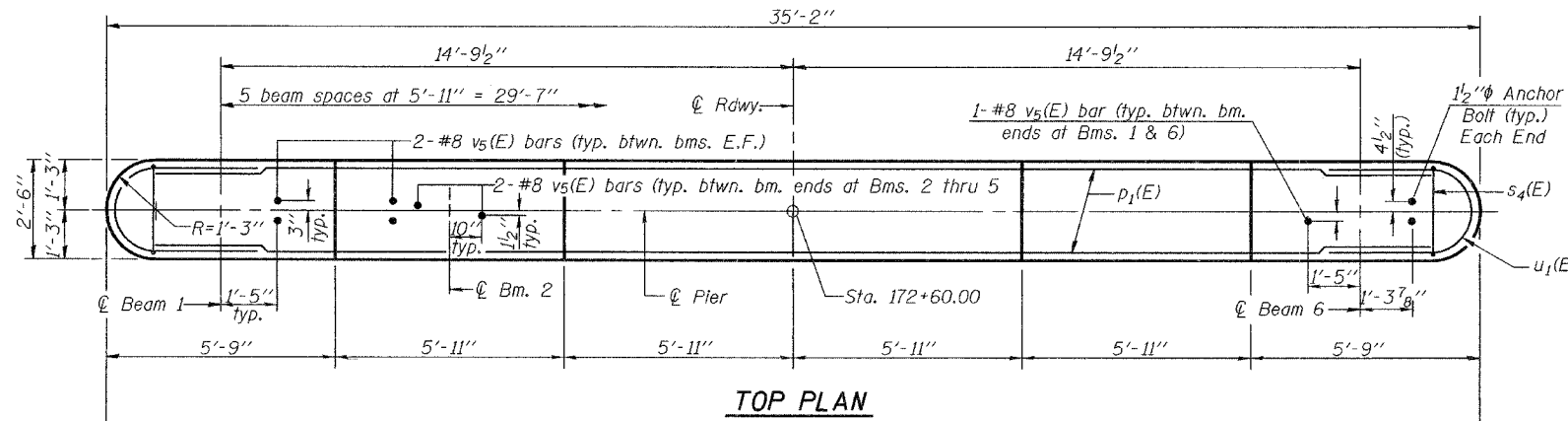
PIER 2
 F.A.P. RT. 857 SEC. 10IBR-6
 WHITE COUNTY
 STATION 171+58.50
 STRUCTURE NO. 097-0071

Notes: Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 11 of 27.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	TOTAL SHEETS 100	INSET NO. 40	SHEET NO. 21 27 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #98960



PILE ENCASEMENT DETAIL

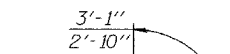
PILE DATA

Pile Type: Steel HP 14 x 102
Nominal Required Bearing: = 720 kips
Factored Resistance Available: = 360 kips
Est. Length: 67'
No. of Production Piles: 7

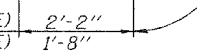
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	28	#4	32'-6"	—
p ₁ (E)	9	#7	32'-8"	—
s ₄ (E)	29	#5	9'-7"	⊠
u ₁ (E)	6	#5	7'-5"	⊂
u ₂ (E)	28	#4	6'-2"	⊂
v ₄ (E)	72	#5	14'-4"	—
v ₅ (E)	30	#8	4'-2"	—
Concrete Structures		Cu. Yd.	44.2	
Reinforcement Bars, Epoxy Coated		Pound	3070	
Furnishing Steel Piles HP14x102		Foot	469	
Driving Piles		Foot	469	
Structure Excavation		Cu. Yd.	8.9	
Underwater Structure Excavation Protection Location 3		Each	1	
Concrete Encasement		Cu. Yd.	2.9	

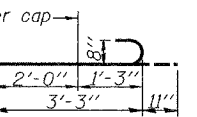
BAR s₄(E)



BARS u₁(E) & u₂(E)



BAR v₅(E)



PIER 3
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

DESIGNED W. A. Beisner
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED WAB/FT

December 4 2006
EXAMINED Thomas J. Demagabek
PASSED Ralph E. Anderson

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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) = $1.25 \times f_{s_{allow}} \times A_T$

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

BAR SPLICER ASSEMBLIES

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

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

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

ROLLED THREAD DOWEL BAR



**ONE PIECE

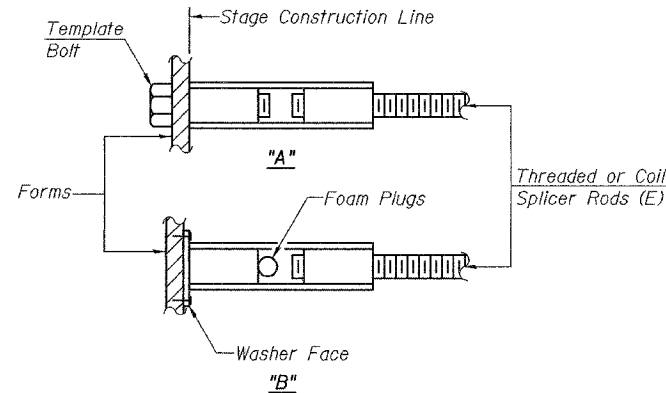
Wire Connector



WELDED SECTIONS

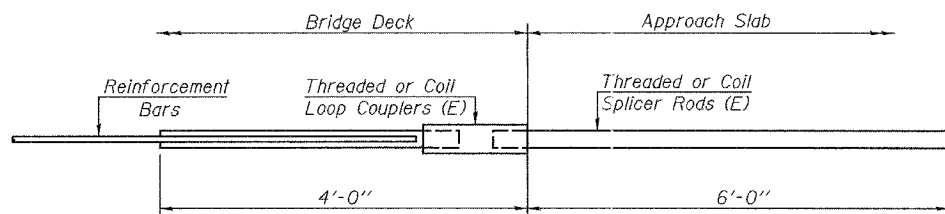
BAR SPLICER ASSEMBLY ALTERNATIVES

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



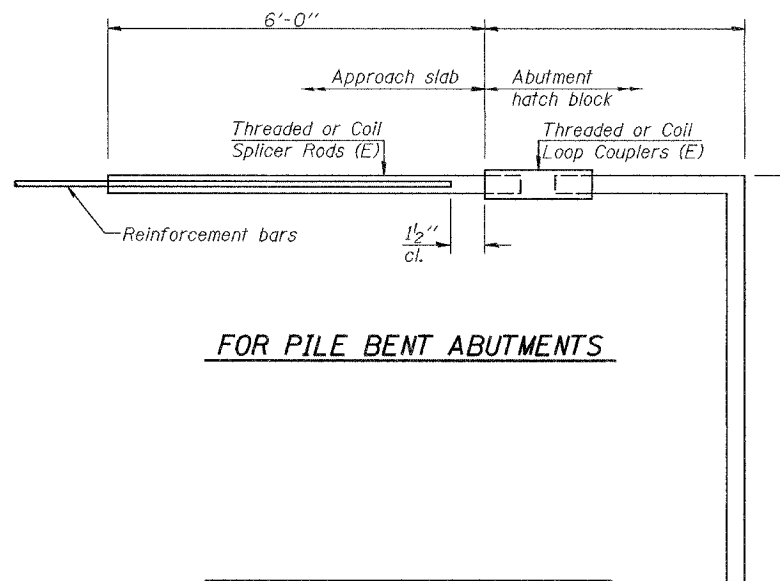
INSTALLATION AND SETTING METHODS

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



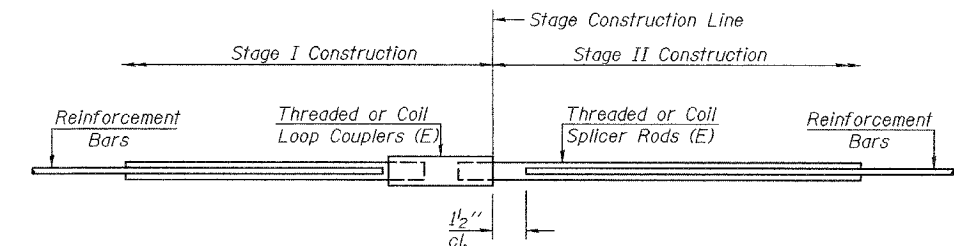
FOR INTEGRAL OR SEMI- INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 62



FOR PILE BENT ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS

F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

DESIGNED W. A. Beisner
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED WAB/FT

December 4 2006
EXAMINED Thomas J. Demagalakis
PASSED Ralph E. Anderson

BSD-1 11-1-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District Seven Materials

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SOIL BORING LOG

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY R. Metheny Date 12/17/05

SECTION 101BR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O C K S	U C I S	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	ft	(ft)	(ft)	(%)	(ft)	(ft)	(%)
097-0031	174+14.21					386.11												
1	170+39																	
	Offset 4.50 ft																	
	Ground Surface Elev. 363.09																	
	386.09	1	0.1	36														
	360.09	3		15														
	358.09	5																
	355.09	1	0.3	31														
	365.09																	
	350.09	3		18														
	352.09																	
	355.09	6		13														
	360.09	25		10														
	355.09	18		11														
	352.09																	
	351.09	22		18														
	350.09																	

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
District Seven Materials

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SOIL BORING LOG

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY R. Metheny Date 12/17/05

SECTION 101BR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O C K S	U C I S	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	ft	(ft)	(ft)	(%)	(ft)	(ft)	(%)
097-0031	174+14.21					386.11												
1	170+39																	
	Offset 4.50 ft																	
	Ground Surface Elev. 363.09																	
	322.09	45	0.5	35														
	360.09																	
	319.59	3		15														
	359.09																	
	353.09	1	0.3	31														
	316.09																	
	355.09	3		18														
	315.09																	
	333.59																	
	329.09																	
	327.59																	
	327.59	6		13														
	327.59																	
	329.09	25		10														
	327.59	18		11														
	327.59																	
	327.59	22		18														
	327.59																	
	327.59																	

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
District Seven Materials

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SOIL BORING LOG

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux Date 6/30/98

SECTION 101BR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O C K S	U C I S	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	ft	(ft)	(ft)	(%)	(ft)	(ft)	(%)
097-0031	174+14.21					NA	NA											
2	179+06.57																	
	Offset 8.20 ft																	
	Ground Surface Elev. 386.12																	
	384.91																	
	381.62	6	1.2	25														
	381.62																	
	369.62	4	0.8	27														
	377.62	5	1.0	27														
	375.12	7	1.1	28														
	372.62	9	2.8	20														
	371.62																	
	369.12	13	1.5	22														
	366.12	4	0.6	30														
	366.62																	
	366.62																	

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
District Seven Materials

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SOIL BORING LOG

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux Date 6/30/98

SECTION 101BR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O C K S	U C I S	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	ft	(ft)	(ft)	(%)	(ft)	(ft)	(%)
097-0031	174+14.21					NA	NA											
2	179+06.57																	
	Offset 8.20 ft																	
	Ground Surface Elev. 386.12																	
	344.12																	
	341.12																	
	339.39																	
	314.30																	
	313.30																	
	313.30																	
	313.30																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	
	309.61																	

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 DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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Illinois Department of Transportation
Division of Highways
District Seven Materials

SOIL BORING LOG

Date 7/20/98

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	
097-0031	174+14.21	EL	B	U	M	ft	EL	B	U	M	
		P	O	C	O		P	O	C	O	
		T	W	S	I		T	W	S	I	
		H	S	Q	S		H	S	Q	S	
		(ft)	(ft)	(tsf)	(%)			(ft)	(ft)	(tsf)	(%)
Bituminous surface and concrete bridge deck. 386.11											
Air.											
Air (continued)											
Soft to medium, wet, gray marbled brown, CLAY w/hair roots. 385.11											
2 0.5 26											
Very soft, wet, gray, CLAY w/ organic odor, hair roots and small roots. 382.31											
0 0.2 38											
0 0 34											
0 E											
Very loose, water bearing, fine grained, gray, SANDY LOAM to SAND w/clay lenses, 8% passing #200 sieve. 356.31											
0 2 22											
Very loose, water bearing, fine grained, gray, SAND w/clay lenses, wood and shells. 353.81											
9 13											
Loose, water bearing, brown, mixture of GRAVEL, SAND and CLAY w/sea shells, 8% passing #200 sieve. 348.81											
9 14											
Loose, water bearing, brown, SAND w/small amounts of gravel, 4% passing #200 sieve. 326.61											

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)

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Illinois Department of Transportation
Division of Highways
District Seven Materials

SOIL BORING LOG

Date 7/20/98

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	
097-0031	174+14.21	EL	B	U	M	ft	EL	B	U	M	
		P	O	C	O		P	O	C	O	
		T	W	S	I		T	W	S	I	
		H	S	Q	S		H	S	Q	S	
		(ft)	(ft)	(tsf)	(%)			(ft)	(ft)	(tsf)	(%)
Loose, water bearing, brown, SAND w/small amounts of gravel, 4% passing #200 sieve. (continued)											
Could not retrieve samples - caving hole. 342.31											
-46											
Could not retrieve samples - caving hole. Augered to apparent 100 blow count material at elevation 317.41. Estimated gray, weathered, CLAY SHALE. 317.41											
Extent of exploration. 317.41											
-70											
-50											
-76											
-80											

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)

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Illinois Department of Transportation
Division of Highways
District Seven Materials

SOIL BORING LOG

Date 7/21/98

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	
097-0031	174+14.21	EL	B	U	M	ft	EL	B	U	M	
		P	O	C	O		P	O	C	O	
		T	W	S	I		T	W	S	I	
		H	S	Q	S		H	S	Q	S	
		(ft)	(ft)	(tsf)	(%)			(ft)	(ft)	(tsf)	(%)
Bituminous surface and concrete bridge deck. 386.31											
Air.											
Medium, damp to very damp, brown, CLAY. 385.71											
5 0.6 26											
Very soft, wet, brown with gray streaks, SILTY CLAY. 362.51											
0 0.1 33											
0 0.3 35											
Soft, wet, brown with gray and red streaks and black specks, CLAY. 358.51											
0 0.3 32											
0 0.3 31											
Very loose, water bearing, dark gray, fine grained, SAND and CLAY, highly organic. 351.51											
1 21											
Very loose, water bearing, fine grained, brown, SAND w/slight organic odor, 6% passing #200 sieve. 349.01											
1 18											
-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)

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Illinois Department of Transportation
Division of Highways
District Seven Materials

SOIL BORING LOG

Date 7/21/98

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	D	B	U	M	
097-0031	174+14.21	EL	B	U	M	ft	EL	B	U	M	
		P	O	C	O		P	O	C	O	
		T	W	S	I		T	W	S	I	
		H	S	Q	S		H	S	Q	S	
		(ft)	(ft)	(tsf)	(%)			(ft)	(ft)	(tsf)	(%)
Loose, water bearing, brown, SAND w/gravel, 5% passing #200 sieve. 346.51											
9 17											
Medium, water bearing, SAND w gravel. 343.51											
12 10											
Could not retrieve samples - caving hole. 342.51											
-46											
Could not retrieve samples - caving hole. Augered to apparent 100 blow count material at elevation 316.51. Estimated gray, weathered, CLAY SHALE. 316.51											
Extent of exploration. 316.51											
-70											
-76											
-80											

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 DETAILS
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District Seven Materials

SOIL BORING LOG

Page 1 of 2
Date 7/28/96

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO. 097-0031
Station 174+14.21

BORING NO. 7
Station 176+90
Offset 46.60ft Lt
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A			358.3		N/A				

Estimated medium to stiff, damp to very damp, brown marbled gray, CLAY w/high sand content.

353.31 Medium, damp to very damp, CLAY w/roots. 343.31

352.31 Soft, very damp to wet, gray, CLAY w/small roots.

350.81 Very soft, wet, brown marbled gray and red, CLAY.

354.81 Very loose, water bearing, fine grained, SAND.

345.81 3% passing #200 sieve.

325.81 5% passing #200 sieve.

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
District Seven Materials

SOIL BORING LOG

Page 2 of 2
Date 7/28/96

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River LOGGED BY D. Lux

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Solid stem auger HAMMER TYPE Automatic

STRUCT. NO. 097-0031
Station 174+14.21

BORING NO. 7
Station 176+90
Offset 46.60ft Lt
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A			358.3		N/A				

Medium, water bearing, fine grained, brown, SAND w/gravel.

7% passing #200 sieve.

319.81 Loose, water bearing, brown, SAND w/gravel.

5% passing #200 sieve.

315.81 Very dense, very moist, gray, beddy weathered, SANDSTONE.

314.96 Extent of exploration. Auger refusal - hitting drill rig off ground.

* 100 blows /0.85' penetration

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
District Seven Materials

SOIL BORING LOG

Page 1 of 1
Date 5/201

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031
Station 174+14.21

BORING NO. A-4S
Station 173+61
Offset 23.90ft Lt
Ground Surface Elev. 365.16 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A									

No sample.

363.16 Stiff, damp, gray, CLAY, A7-6

361.66 Soft, wet, gray, CLAY, A7-6

360.66 No recovery.

359.16 Sample disturbed - moisture only 359.16

359.66 V soft, v moist, gray, CLAY, A7-6

359.16 Soft, v moist, gray, CLAY, A7-6

358.16 No recovery.

358.16 V soft, v wet, brown to gray, C, A7-6

358.66 No recovery.

355.66 Sample disturbed - moisture only 355.66

354.16 Very soft, very wet, gray, SiC, A-6

354.16 Soft, very wet, gray, SiCL, A-6

353.16 Sample disturbed - moisture only 352.66

352.16 Soft, wet, gray, SiCL, A-6

351.66 Medium, moist, gray, SiCL, A-6

351.16 Soft, moist, gray, SiCL, A-6

350.66 Medium, moist, gray, SILTY CLAY, A-6 w/sand seam.

350.16 No recovery.

348.16 Very soft, very moist, gray, SANDY CLAY, A-4 w/gravel.

Extent of exploration.

Shelby Tube laboratory log shown.

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
District Seven Materials

SOIL BORING LOG

Page 1 of 1
Date 5/201

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller

SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM

COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031
Station 174+14.21

BORING NO. A-6S
Station 174+36
Offset 23.60ft Lt
Ground Surface Elev. 365.81 ft (ft) (6") (tsf) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(6")	(tsf)	(%)
N/A	N/A									

Soft, moist, brown, SiC, A-6

364.81 Medium, moist, brown, SiC, A7-6

364.31 Stiff, moist, brown, SiC, A7-6

363.81 No recovery.

362.81 Stiff, damp, brown, SiC, A7-6

362.81 Medium, moist, brown to gray, SiC, A-6

361.81 No recovery.

361.31 Soft, wet, gray to brown, SiC, A-6

359.81 No recovery.

358.81 V soft, wet, gray to brown, SiC, A-6

358.31 Soft, wet, gray, C to SiC, A-6

357.31 No recovery.

356.31 Soft, wet, gray, C to SiC, A-6

355.81 No recovery.

354.81 Soft, wet, gray, SiC to C, A-6

353.81 Medium, wet, gray, SiC to C, A-6

352.81 Soft, wet, gray, C to SiC, A7-6

351.81 Soft, wet, gray, SiC, A7-6

350.81 No recovery.

Extent of exploration.

Shelby Tube laboratory log shown.

Abbreviations:
C Clay
SiC Silty Clay
SiCL Silty Clay Loam

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 DETAILS
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	10IBR-6	WHITE	100	46
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 27
27 SHEETS
Contract #98960

Illinois Department of Transportation
Division of Highways
District Seven - East St. Louis

SOIL BORING LOG

Page 1 of 1
Date 8/8/01

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller
SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM
COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031 D B U M
Station 174+14.21 E L C O
P O S I
T W S Qu T
H S Qu T

BORING NO. A-7S Surface Water Elev. 362.8 ft
Station 174+03 Stream Bed Elev. N/A ft
Offset 23.00R Rt Groundwater Elev.:
First Encounter 360.1 ft
Upon Completion 362.1 ft
After N/A Hrs. N/A ft

Depth (ft)	(ft)	(ft)	(tsf)	(%)	(ft)	(ft)	(tsf)	(%)
362.60								
360.10								
357.60								
355.10								
352.60								
350.10								
347.60								
345.10								

Medium, very moist, brown, SILTY CLAY, A-6. 19" recovery.
Shelby Tube field log shown. No moistures or strengths available.
Soft, very moist, gray mottled brown, CLAY to SILTY CLAY, A7-6. 20" recovery.
Soft, very moist, gray mottled brown, CLAY to SILTY CLAY, A7-6. 18" recovery.
Very soft, very moist, gray, CLAY to SILTY CLAY, A7-6. 25" recovery.
Very soft, very moist, gray, CLAY to SILTY CLAY, A7-6. 30" recovery.
Soft to very soft, very moist, gray, CLAY to SANDY CLAY w/gravel, A7-6. 30" recovery.
Medium, wet, gray, SANDY GRAVEL. 30" recovery.
Medium, wet, gray to brown, SANDY GRAVEL. 29" recovery.
Extent of exploration.

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
District Seven - East St. Louis

SOIL BORING LOG

Page 1 of 1
Date 8/8/01

ROUTE FAP 857 (IL 14) DESCRIPTION Fox River - Shelby Tubes LOGGED BY B. Keller
SECTION 10IBR-6 LOCATION NW 14, SEC. 29, TWP. 4 S, RNG. 14 E, 3 PM
COUNTY White DRILLING METHOD Hydraulic push HAMMER TYPE N/A

STRUCT. NO. 097-0031 D B U M
Station 174+14.21 E L C O
P O S I
T W S Qu T
H S Qu T

BORING NO. A-8S Surface Water Elev. 362.8 ft
Station 175+28 Stream Bed Elev. N/A ft
Offset 23.00R Rt Groundwater Elev.:
First Encounter 359.2 ft
Upon Completion 361.7 ft
After 2 Hrs. 362.2 ft

Depth (ft)	(ft)	(ft)	(tsf)	(%)	(ft)	(ft)	(tsf)	(%)
361.70								
359.20								
356.70								
354.20								
351.70								
349.20								
346.70								

Medium, moist to very moist, gray mottled brown, CLAY, A7-6. 14" recovery.
Soft, very moist, brown mottled gray, CLAY to SILTY CLAY, A7-6. 21" recovery.
Soft, very moist, gray streaked brown, CLAY, A7-6. 16" recovery.
Very soft, very moist, gray, CLAY, A7-6. 19" recovery.
Very soft, very moist, gray, CLAY, A7-6. 22" recovery.
Very soft, very wet, gray, CLAY, A7-6. 26" recovery.
Medium, wet, gray, fine, SAND w/silt and a clay layer. 30" recovery.
Extent of exploration.
Shelby Tube field log shown. No moistures or strengths available.

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 DETAILS
F.A.P. RT. 857 SEC. 10IBR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

Bench Mark: Chiseled "□" top of N.E. wingwall S.N. 097-0031, Elev. 385.88

Existing Structure: S.N. 097-0031 built in 1932 as S.B.I. Route 139, Section 101-B, at Section 17+14.21
 Super and substructure widened in 1978 as F.A. Route 857, Sec. 101BR-1. Structure consists of 2 spans of PPC deck beams (Spans 1 & 2) & 15 spans of reinf. conc. deck on steel beams (spans 3 thru 17) supported by closed (W) & spill thru pile bent (E) abutments & solid pile (1 & 2) & open conc. pile bent (3 thru 16) piers. 878'-4³/₄" bk.-bk. abufs. 33'-0" O.-D. deck. The existing structure shall be removed and replaced with the proposed bridge (S.N. 097-0071) and this proposed culvert (S.N. 097-2014). Traffic shall be maintained on a temporary run-around on the north side of the existing bridge during construction.

No salvage. Cost of removal of the existing structure shall be paid for with the proposed work for SN 097-0071 elsewhere in this contract.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

Note: Elevations of the box segments are the elevations at time of construction. Settlement of the box segments is anticipated during and after the placement of the embankment.
 For boring data, see structure plans for SN 097-0071 elsewhere in this contract.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	47
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #98960

GENERAL NOTES

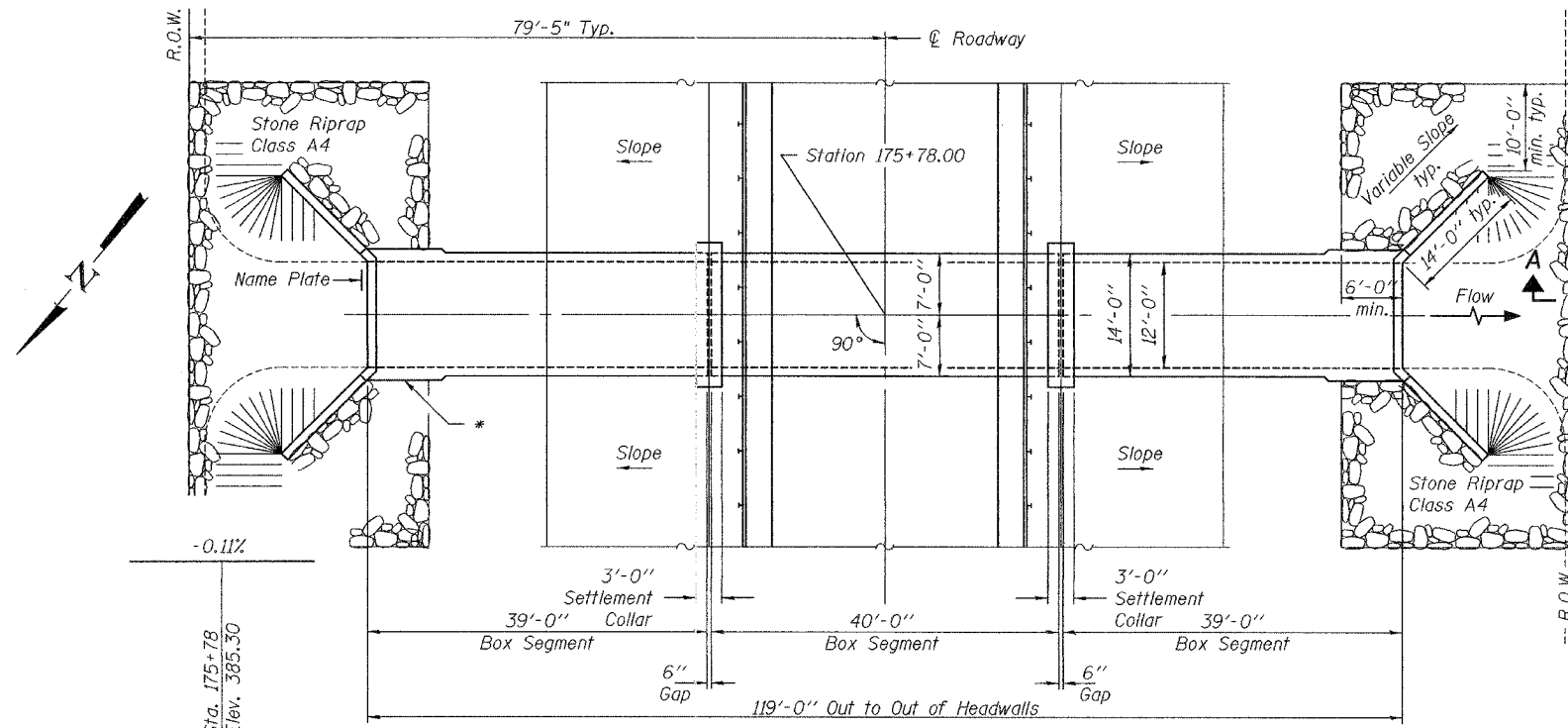
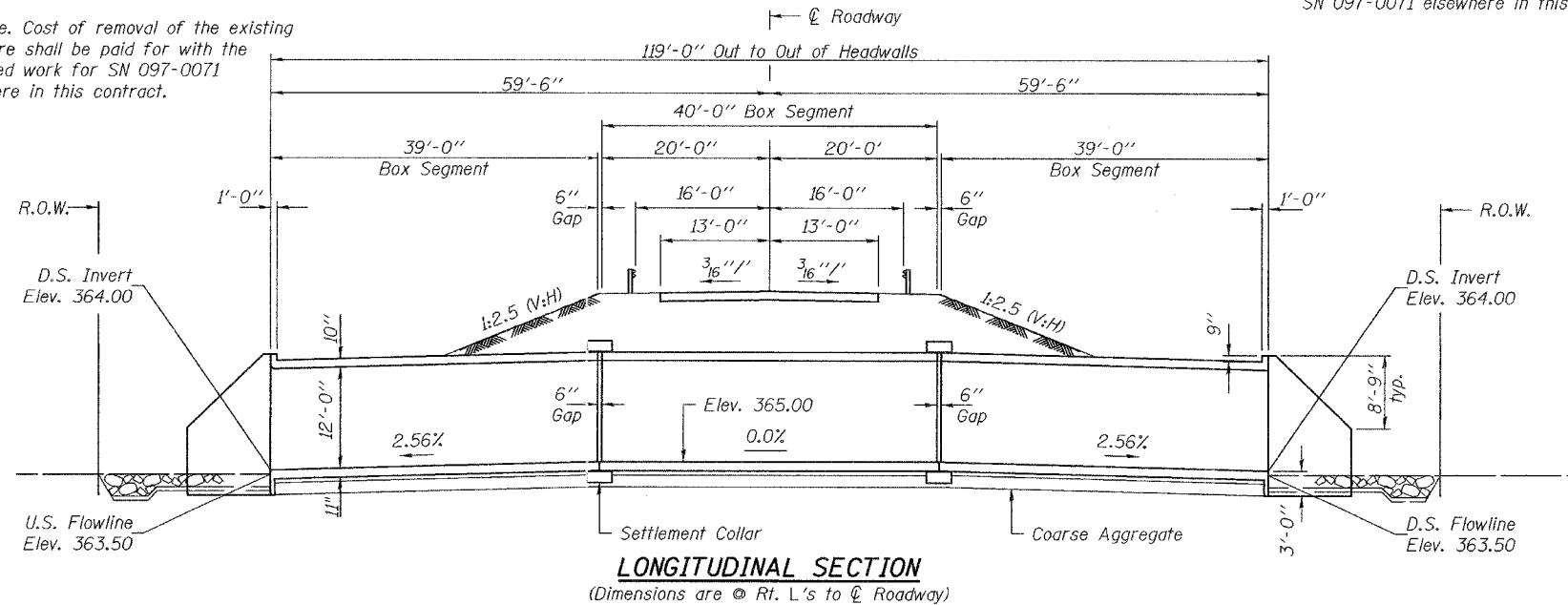
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
 For backfilling and embankment, see Standard Specifications.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	268.7
Rock Fill	Cu. Yd.	157
Name Plates	Each	1
Reinforcement Bars	Pound	61960
Stone Riprap, Class A4	Sq. Yd.	282
Filter Fabric	Sq. Yd.	282

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2-5 Culvert Details
- 6 Settlement Collars



PROFILE GRADE
 (along C of roadway)

*Note: Soil/riprap to be placed to the barrel at all four corners.

DESIGNED	[Signature]
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

December 4, 2006
 EXAMINED [Signature]
 PASSED [Signature]



EXPIRES 11-30-2008

WATERWAY INFORMATION

Drainage Area = 29400.0 sq. mi. P. Low Grade Elev. 385.1 ft. @ Sta. 169+50
 E. Low Grade Elev. 385.1 ft. @ Sta. 169+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design		8284	8765	3789	375.7	0.2	0.3	375.9	376.0	
Base	100	9381	9460	4109	376.6	0.3	0.3	376.9	376.9	
Overtopping										
Max. Calc.	500	10424	10021	4370	377.3	0.3	0.4	377.6	377.7	

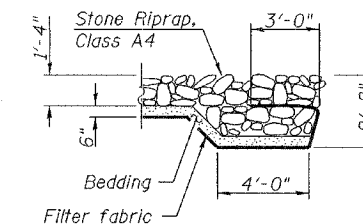
LOADING HS20-44

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

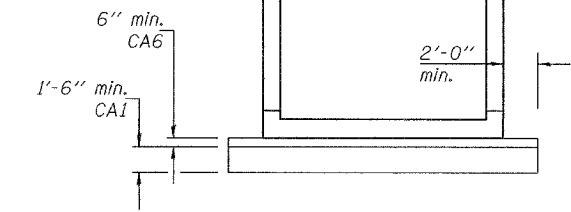
DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES
 FIELD UNITS

f_c = 3,500 psi
 f_y = 60,000 psi (reinforcement)



SECTION A-A

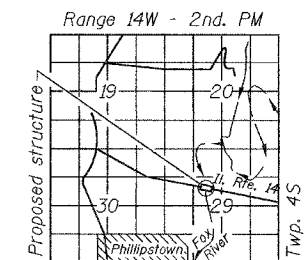


SECTION THRU BARREL

Notes: The Contractor shall remove a minimum depth of 2'-0" of the existing soil within the footprint of the culvert plus an additional 2'-0" on each side of the culvert along the CL Rdwy direction. Cost of removal of soil is included in the cost of Rock Fill. The Contractor shall place the following coarse aggregate layers:
 Place and compact coarse aggregate CA1 to a minimum depth of 1'-6".
 On top of the base CA1, place and compact coarse aggregate CA6 to a minimum depth of 6". Cost is included as Rock Fill. See Special Provision.

STATION 175+78.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RT. 857
 SEC 101BR-6
 LOADING HS20
 STR. NO. 097-2014

NAME PLATE
 See Std. 515001



LOCATION SKETCH

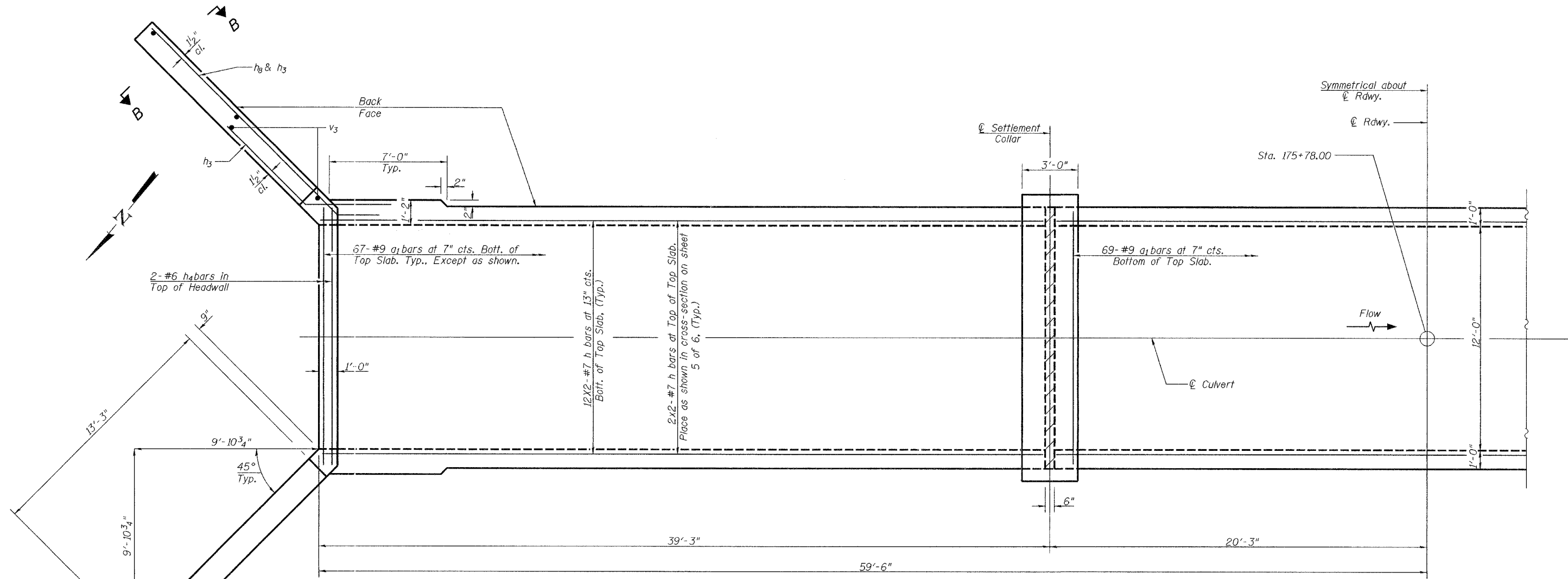
GENERAL PLAN & ELEVATION
 ILLINOIS ROUTE 14 OVER
 FOX RIVER

F.A.P. ROUTE 857 - SECTION 101BR-6
 WHITE COUNTY
 STATION 175+78.00
 STRUCTURE NO. 097-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 857	101BR-6	WHITE	100	48	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #98960



MIN. BAR LAP
#7 Bar = 2'-9"
#5 Bar = 1'-8"

PLAN-TOP SLAB

Notes:
A distance of 7'-0" of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12x2-#7 etc. indicates 12 lines of bars with 2 lengths per line.
For Section B-B see sheet 5 of 6.
For Settlement Collar details see sheet 6 of 6.
For section thru barrel, bar details and Bill of Material, see sheet 5 of 6.

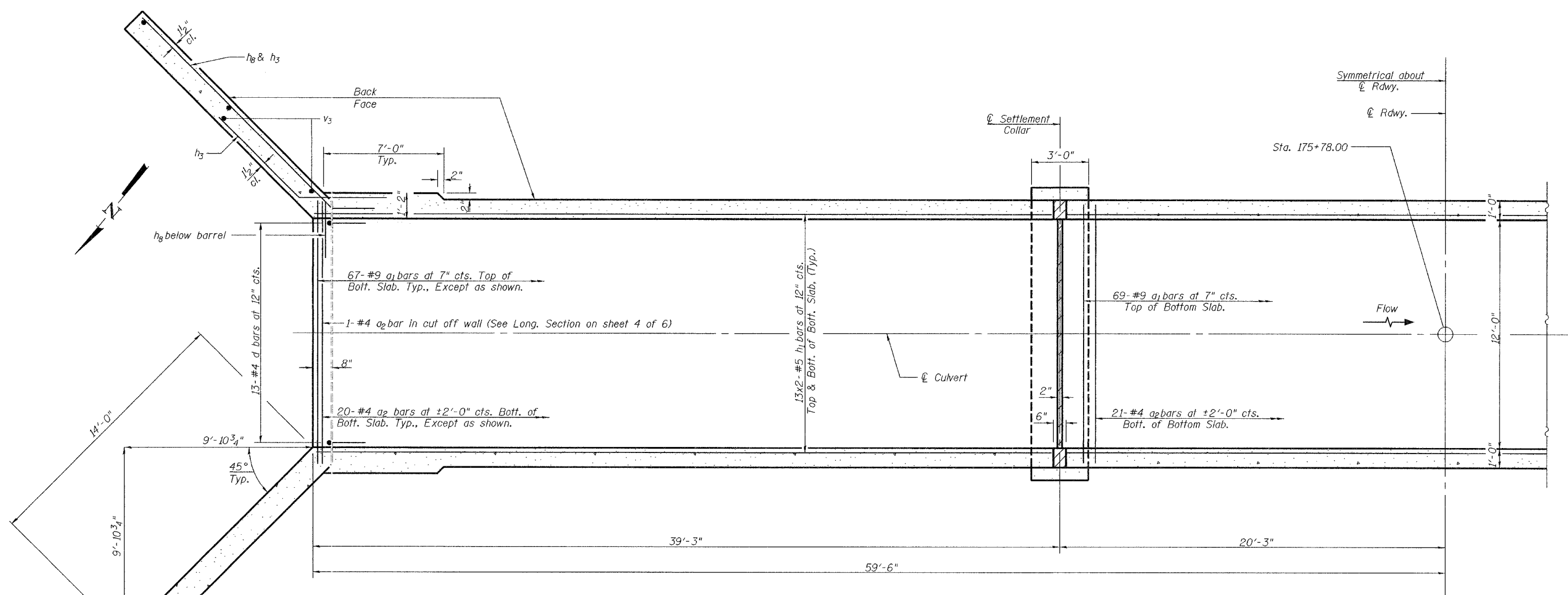
DESIGNED	Angela J. Bryant	December 4, 2006
CHECKED	Fess Teklehaimanot	EXAMINED <i>Thomas J. Danagabki</i> ENGINEER OF BRIDGE DESIGN
DRAWN	Greg D. Farmer	PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	AJB/FT	

CULVERT DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 175+78.00
STRUCTURE NO. 097-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	SHEET 100	SHEET NO. 49	SHEET NO. 3 6 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #98960



MIN. BAR LAP
#7 Bar = 2'-9"
#5 Bar = 1'-8"

PLAN-BOTTOM SLAB

Notes:
A distance of 7'-0" of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 13x2-#5 etc. indicates 13 lines of bars with 2 lengths per line.
For Settlement Collar details, see sheet 6 of 6.
For Section Thru Barrel, bar details, and Bill of Material see sheet 5 of 6.

DESIGNED	Angela J. Bryant
CHECKED	Fess Teklehaimanot
DRAWN	Greg D. Farmer
CHECKED	AJB/FT

December 4, 2006
EXAMINED *Thomas J. Domagalaki*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

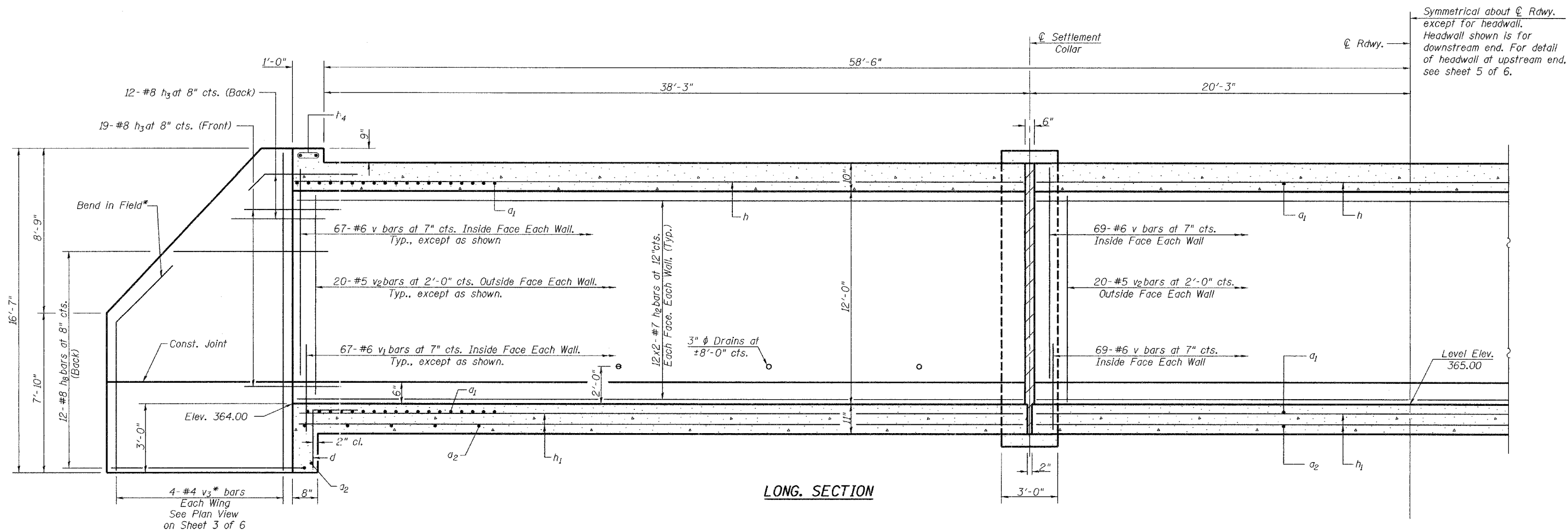
CULVERT DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 175+78.00
STRUCTURE NO. 097-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4
6 SHEETS

Contract #98960



LONG SECTION

* Cut bars so that no more than 5'-0" of bar is in bent section.

MIN. BAR LAP
#7 Bar = 2'-9"

DESIGNED	Angela J. Bryant
CHECKED	Fess Teklehaimanot
DRAWN	Greg D. Farmer
CHECKED	AJB/FT

December 4, 2006
EXAMINED *Thomas J. Donagahski*
PASSED *Ralph E. Anderson*

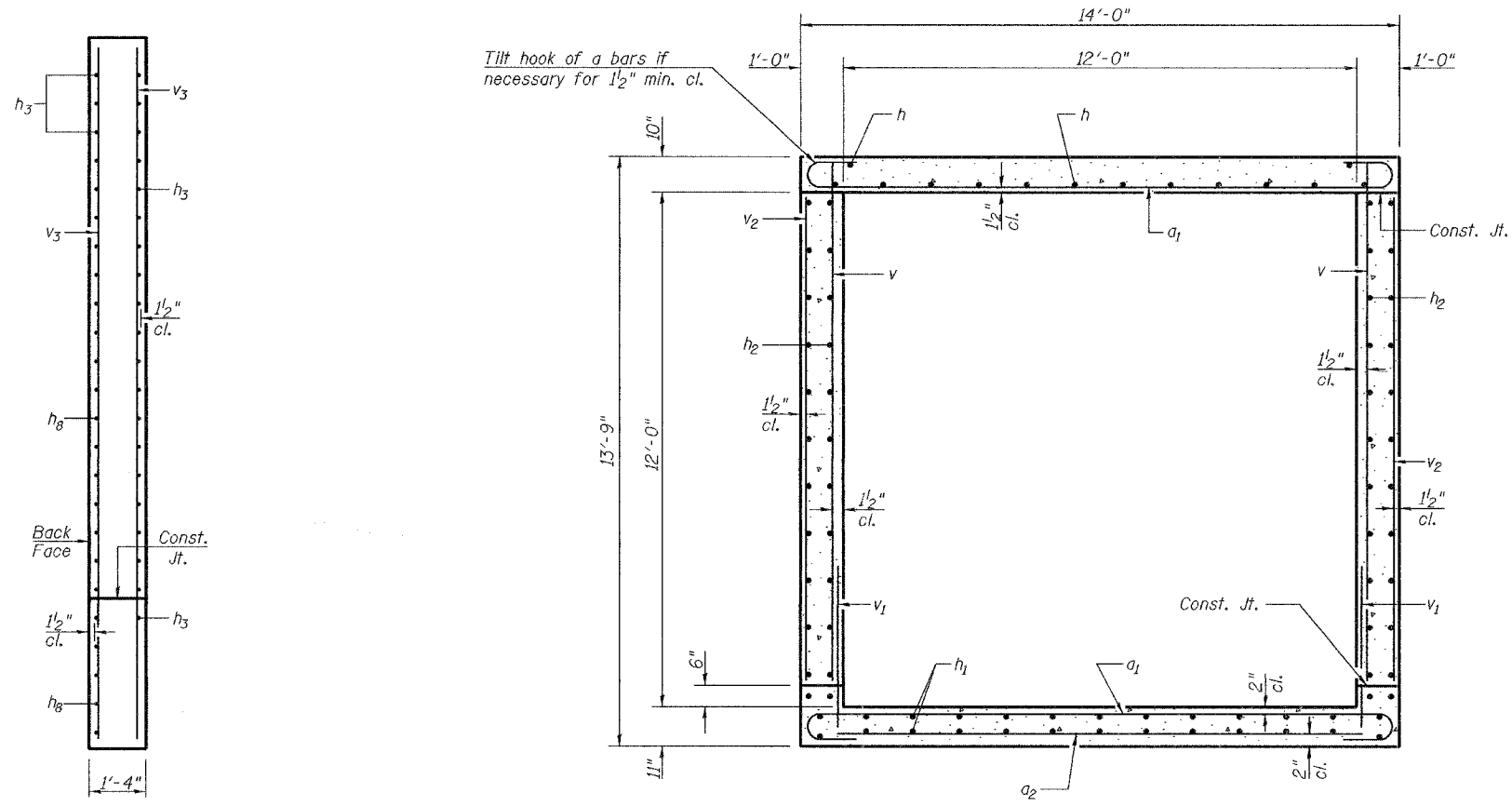
Notes:
Bars indicated thus 12x2-#7 etc. indicates 12 lines of bars with 2 lengths per line.
For Settlement Collar details, see sheet 6 of 6.
For Section Thru Barrel, bar details, and Bill of Material see sheet 5 of 6.

CULVERT DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 175+78.00
STRUCTURE NO. 097-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	SHEETS 100	SHEET NO. 51	SHEET NO. 5 6 SHEETS
FED. ROAD DIST. NO. 7		BUILDING	FED. AID PROJECT		

Contract #98960

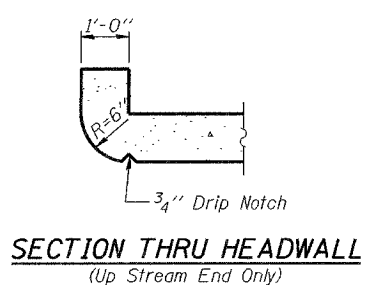


SECTION B-B

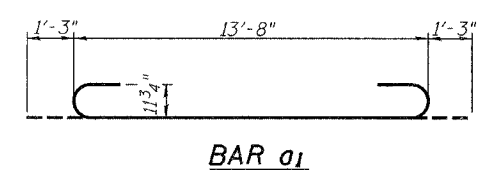
SECTION THRU BARREL

BILL OF MATERIAL

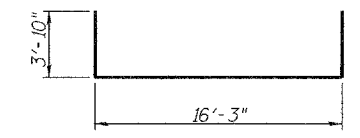
Bar	No.	Size	Length	Shape
a1	406	#9	16'-2"	U
a2	63	#4	13'-9"	—
a3	8	#8	16'-4"	—
a4	12	#8	14'-4"	—
a5	12	#8	23'-11"	L
d	26	#4	4'-6"	—
d1	24	#8	5'-2"	—
h	84	#7	21'-3"	—
h1	156	#5	20'-11"	—
h2	288	#7	21'-3"	—
h3	124	#8	8'-0"	/
h4	4	#6	13'-8"	—
h8	48	#8	17'-0"	/
s1	120	#4	7'-11"	U
v	406	#6	12'-2"	—
v1	406	#6	2'-6"	—
v2	60	#5	11'-4"	—
v3	16	#4	16'-4"	—
v4	24	#8	17'-9"	—
v5	24	#8	15'-9"	—
Concrete Box Culverts			Cu. Yd.	268.7
Reinforcement Bars			Pound	61960



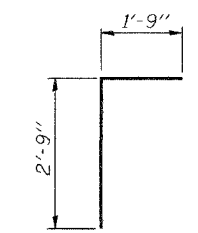
SECTION THRU HEADWALL
(Up Stream End Only)



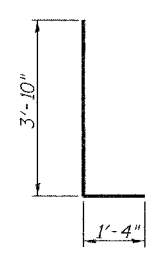
BAR a1



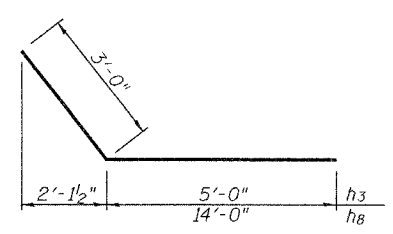
BAR a5



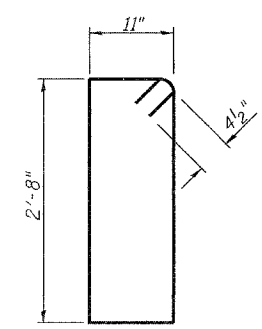
BAR d



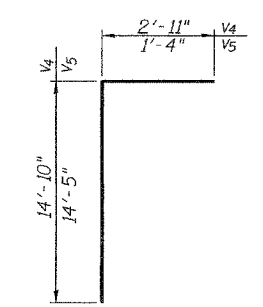
BAR d1



BARS h3 & h8



BAR s1



BAR v4 & v5

DESIGNED	Angela J. Bryant
CHECKED	Fess Teklehaimanot
DRAWN	Greg D. Farmer
CHECKED	AJB/FT

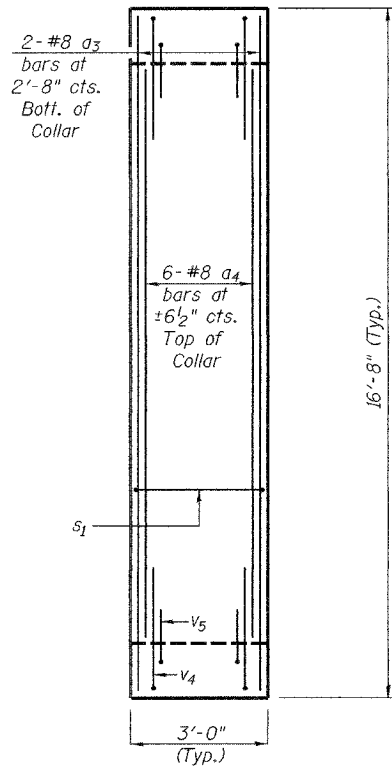
December 4, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

CULVERT DETAILS
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 175+78.00
STRUCTURE NO. 097-2014

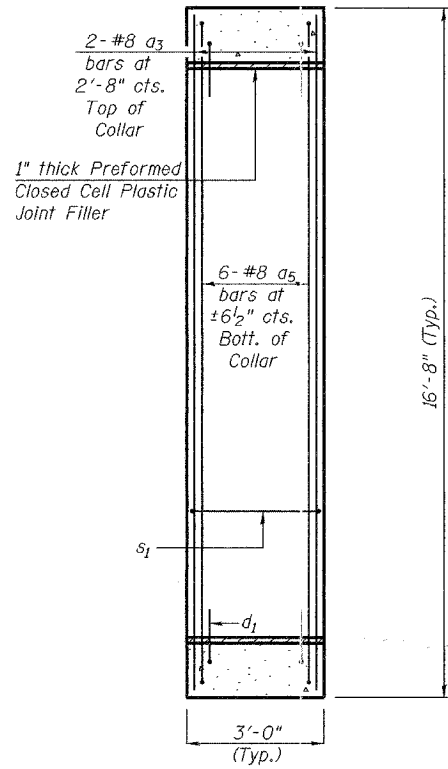
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 857	SECTION 101BR-6	COUNTY WHITE	SHEET 100	52	SHEET NO. 6 6 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

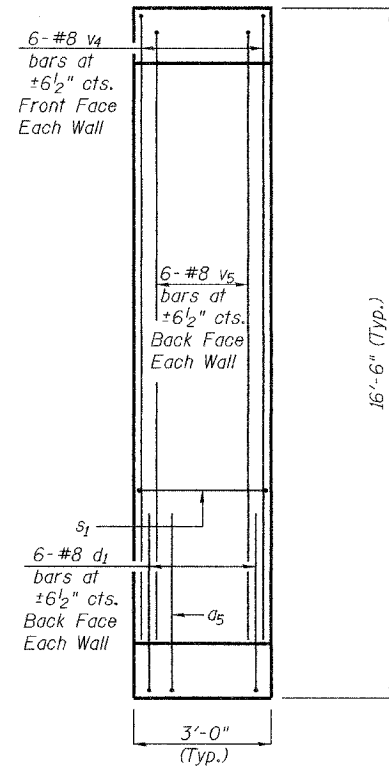
Contract #98960



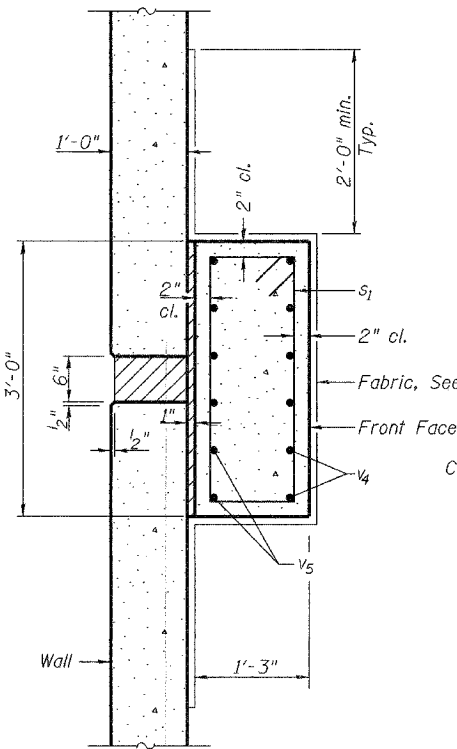
**SETTLEMENT COLLAR
PLAN-TOP**



**SETTLEMENT COLLAR
PLAN-BOTTOM**

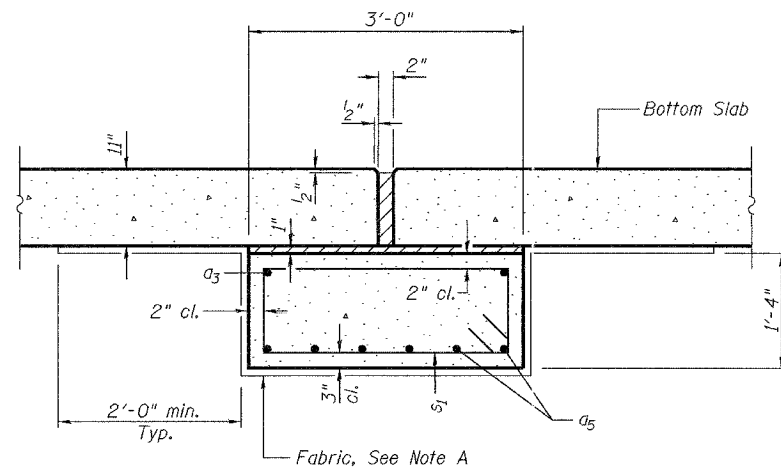


**SETTLEMENT COLLAR
ELEVATION-SIDE**



Note: Provide 6" thick by 11 1/2" deep Preformed Closed Cell Plastic Joint Filler (Article 1051.08) between the adjacent walls of the box culvert segments.

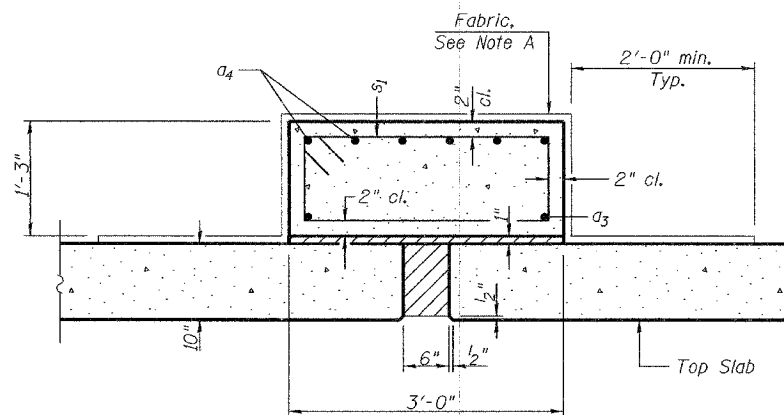
SECTION C-C



Note: Provide 2" thick by 10 1/2" deep Preformed Closed Cell Plastic Joint Filler (Article 1051.08) between the bottom slabs of the box culvert segments.

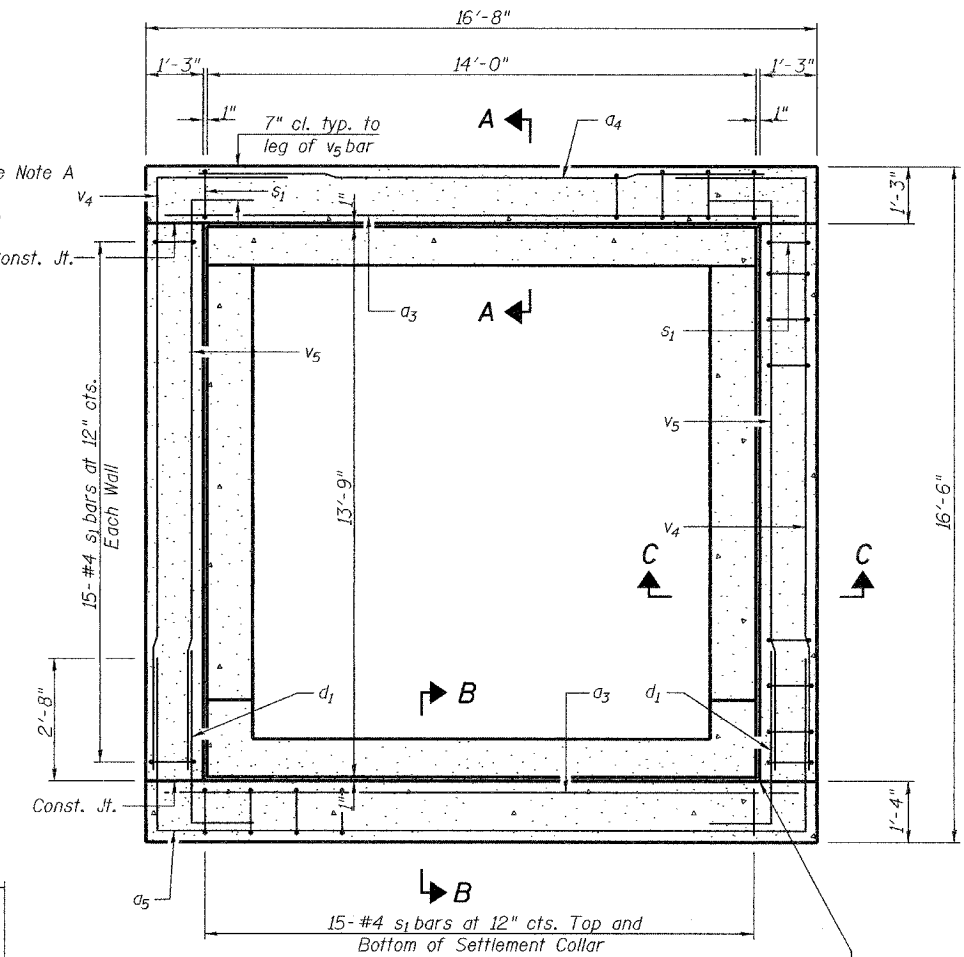
SECTION B-B

Note A:
Place a double layer of nonwoven (6.0 oz./sq. yd. minimum) filter fabric (Article 1080.03) over the settlement collar and extending into the culvert barrel. Fabric shall be placed underneath the bottom collar, against the side collars, and on top of the top collar. Cost of filter fabric included in the cost of Concrete Box Culverts.



Note: Provide 6" thick by 9 1/2" deep Preformed Closed Cell Plastic Joint Filler (Article 1051.08) between the top slabs of the box culvert segments.

SECTION A-A



Note: Provide 1" thick by 3'-0" wide Preformed Closed Cell Plastic Joint Filler (Article 1051.08) between the barrel and the settlement collar.

SECTION THRU BARREL AT SETTLEMENT COLLAR
(Reinforcement bars in box culvert not shown.)

Note:
Cost of Preformed Closed Cell Plastic Joint Filler is included in the cost of Concrete Box Culverts.

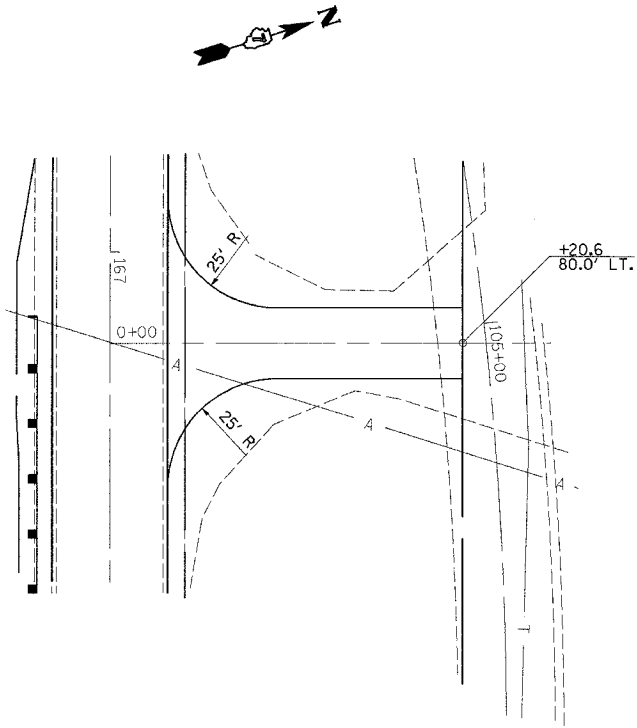
DESIGNED	Angela J. Bryant
CHECKED	Fess Teklehaimanot
DRAWN	Greg D. Farmer
CHECKED	AJB/FT

EXAMINED	December 4, 2006
PASSED	Thomas J. Damagalki ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

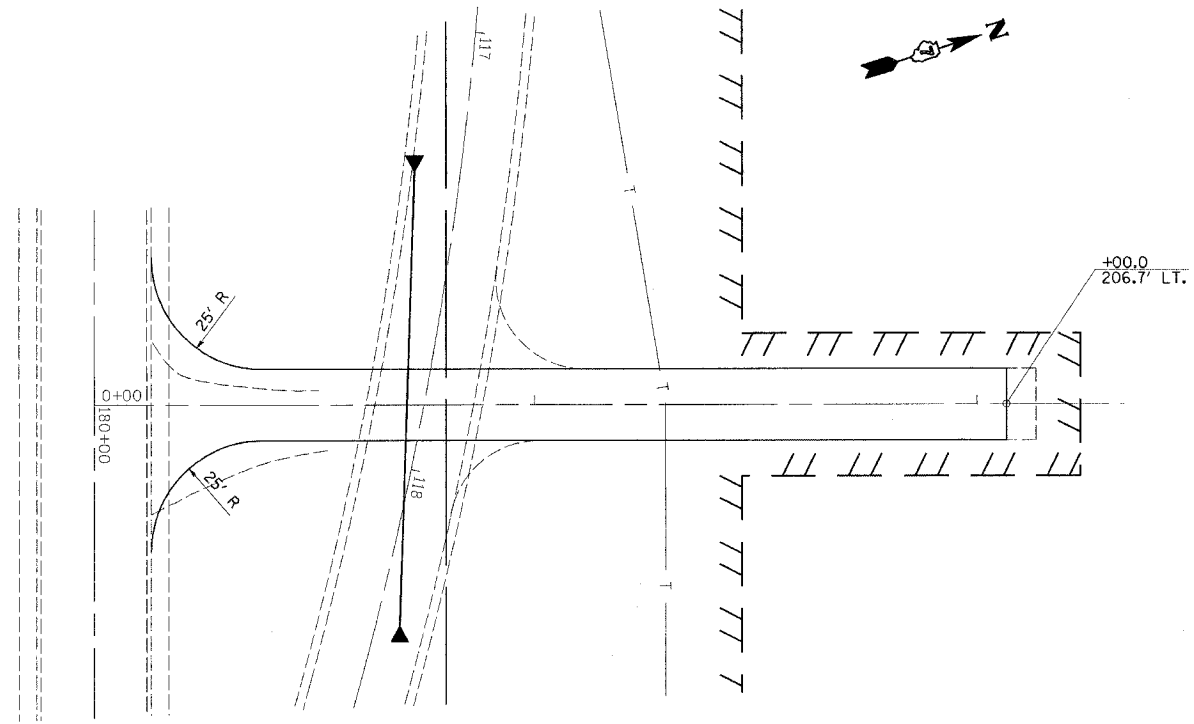
SETTLEMENT COLLARS
F.A.P. ROUTE 857 SEC. 101BR-6
WHITE COUNTY
STATION 175+78.00
STRUCTURE NO. 097-2014

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	RT. OF WAY CHECKED	
	CAD FILE NAME	



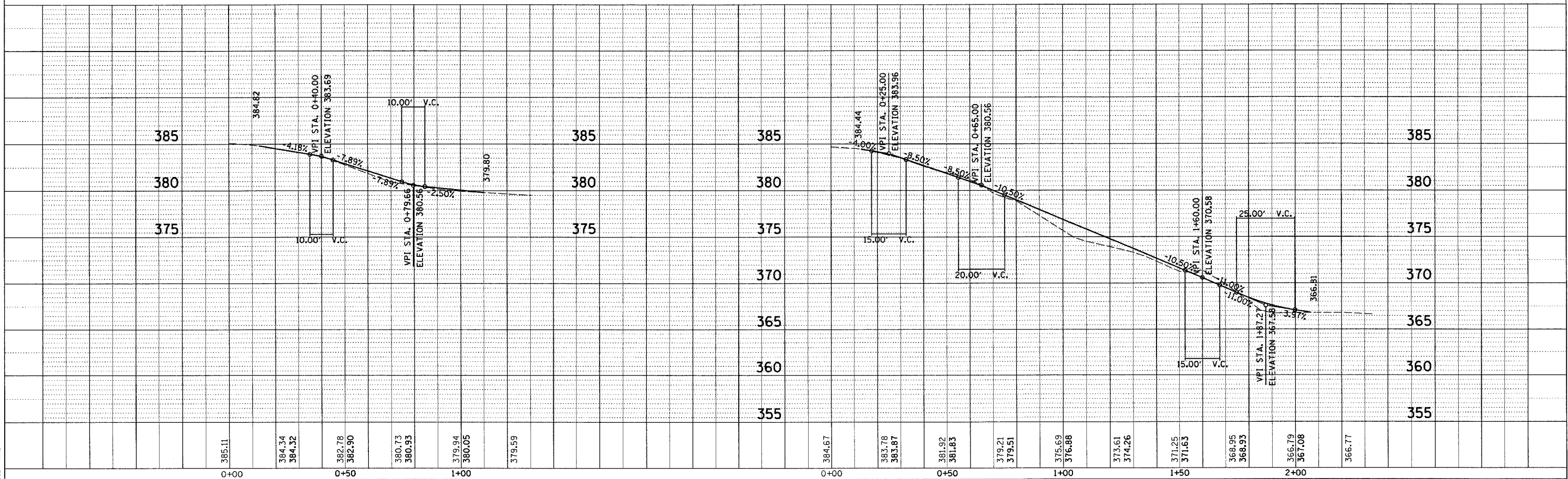
P.E. LT. STA. 167+20.95



F.E. LT. STA. 180+00.00

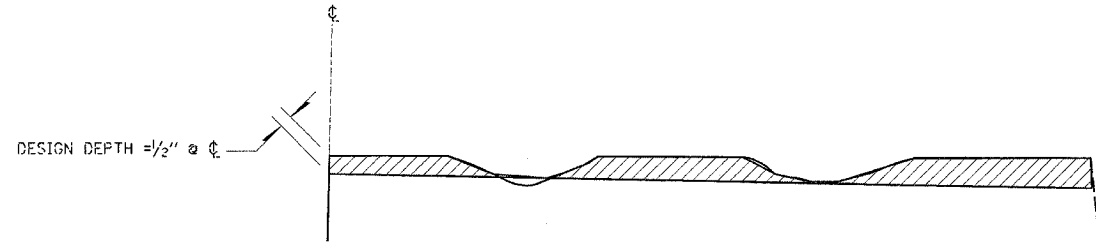
PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BL. NOTED	
	STRUCTURE NOTATION CHKD	

PLOT DATE = 11/19/2008
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 PLOT SCALE = 20.0000' / 1" IN.
 USER NAME = mwrtrw



FAP DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	54
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO.	

swartzf-w
 11/13/2006
 c:\projects\94675d\d03897pa.dgn

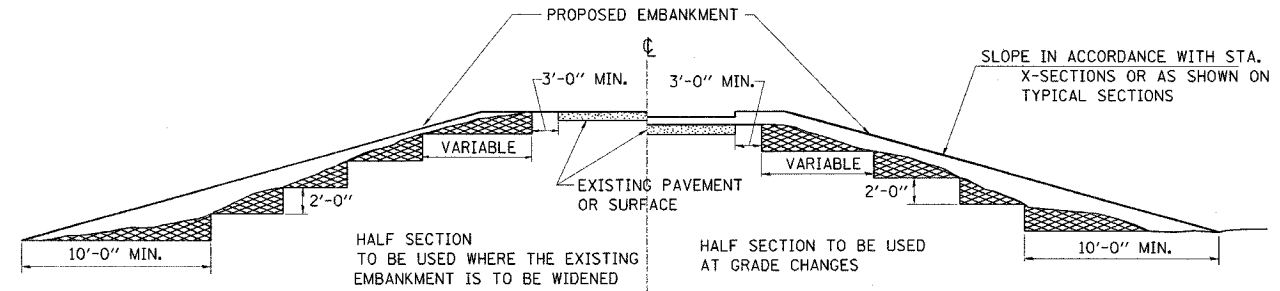


NOTES:

1. MILLING SHALL BE DONE TO ATTAIN REQUIRED SLOPE IN CROWN SECTIONS
2. EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE 1/2" BUT MAY VARY IN ISOLATED LOCATIONS.

**BITUMINOUS SURFACE
REMOVAL (VARIABLE DEPTH) DETAIL**

MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.



BENCHING DETAIL

REVISIONS	
NAME	DATE

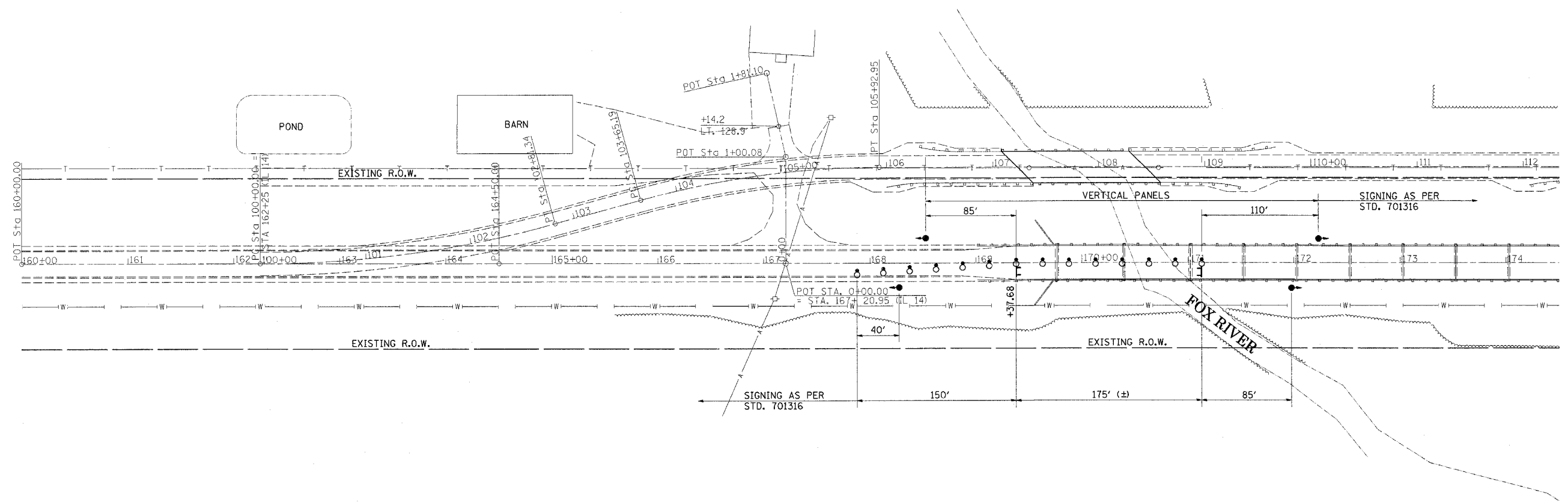
ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	(10)BR-6	WHITE	100	55
STA. 160+00		TO STA. 174+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS, AGGREGATE

REVISIONS	
NAME	DATE

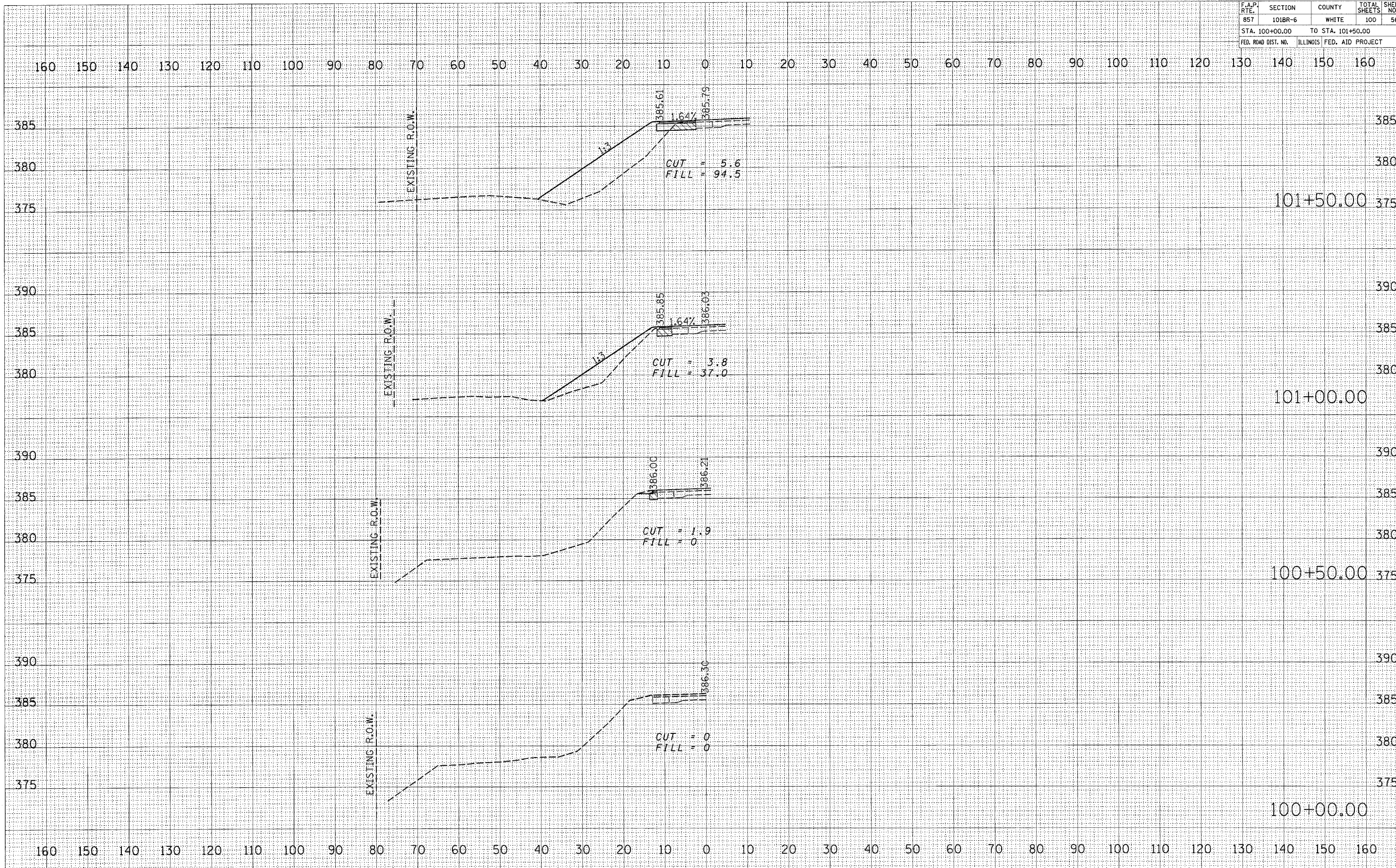
ILLINOIS DEPARTMENT OF TRANSPORTATION

Traffic Control (Special)

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

PLOT DATE = 11/13/2006
 FILE NAME = c:\projects\94675d\version control.dgn
 PLOT SCALE = 50.0000' / 1" IN.
 USER NAME = swr:trv

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	56
STA. 100+00.00		TO STA. 101+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



BY: _____ DATE: _____

FINAL SURVEY NO. _____

SURVEYED _____

PLOTTED _____

NOTE BOOK DATE _____

AREAS CHECKED _____

BY: _____ DATE: _____

ORIGINAL SURVEY NO. _____

SURVEYED _____

PLOTTED _____

NOTE BOOK DATE _____

AREAS CHECKED _____

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PLOT SCALE = #SCALE#

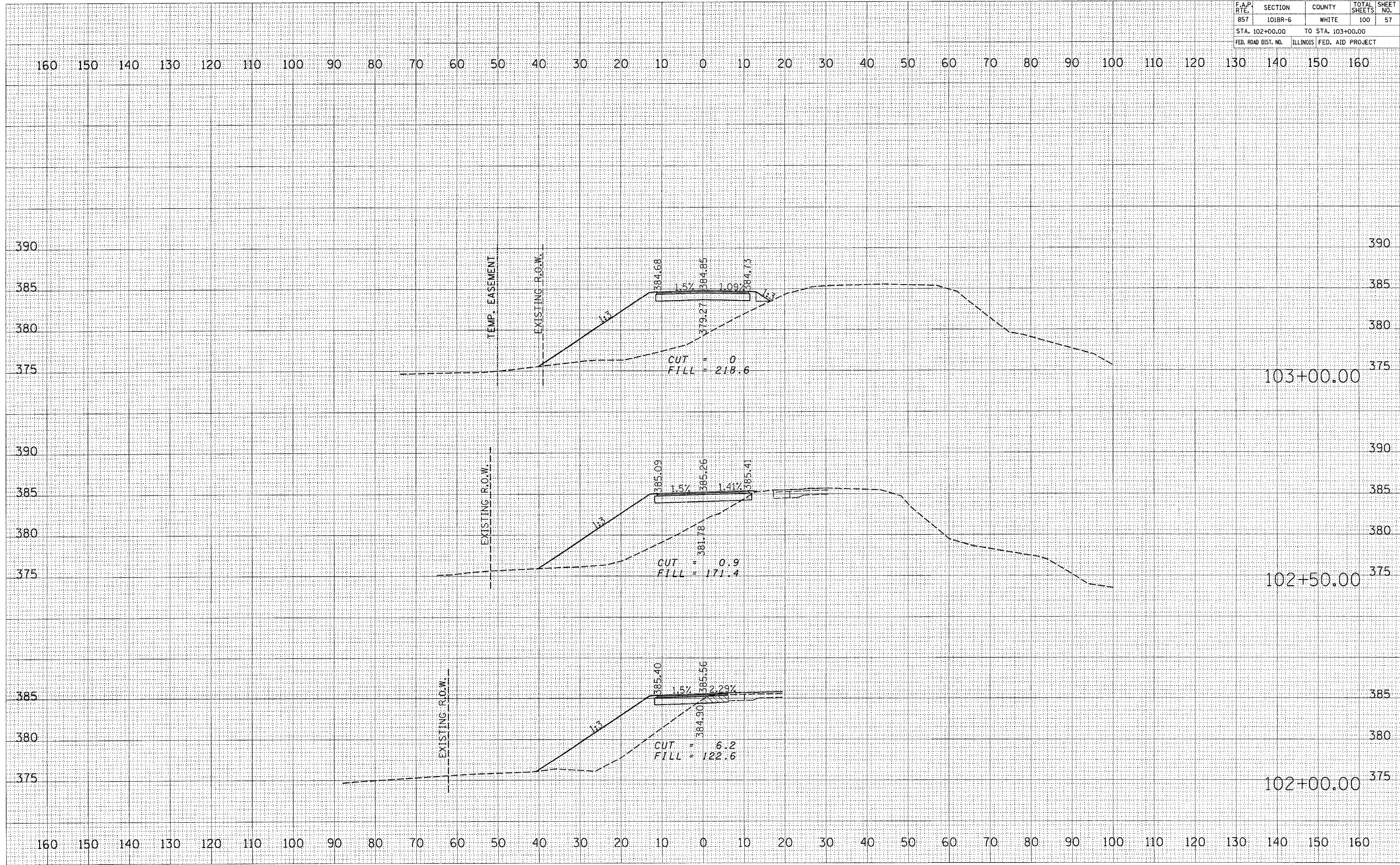
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CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	57
STA. 102+00.00		TO STA. 103+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
BY	
NO.	
REVISIONS	
DATE	
BY	
NO.	
REVISIONS	
DATE	
BY	
NO.	

ORIGINAL SURVEY	DATE
BY	
NO.	
REVISIONS	
DATE	
BY	
NO.	
REVISIONS	
DATE	
BY	
NO.	

PLOT DATE = *DATE*
 FILE NAME = *FILE*
 PLOT SCALE = *SCALE*
 USER NAME = *USER*

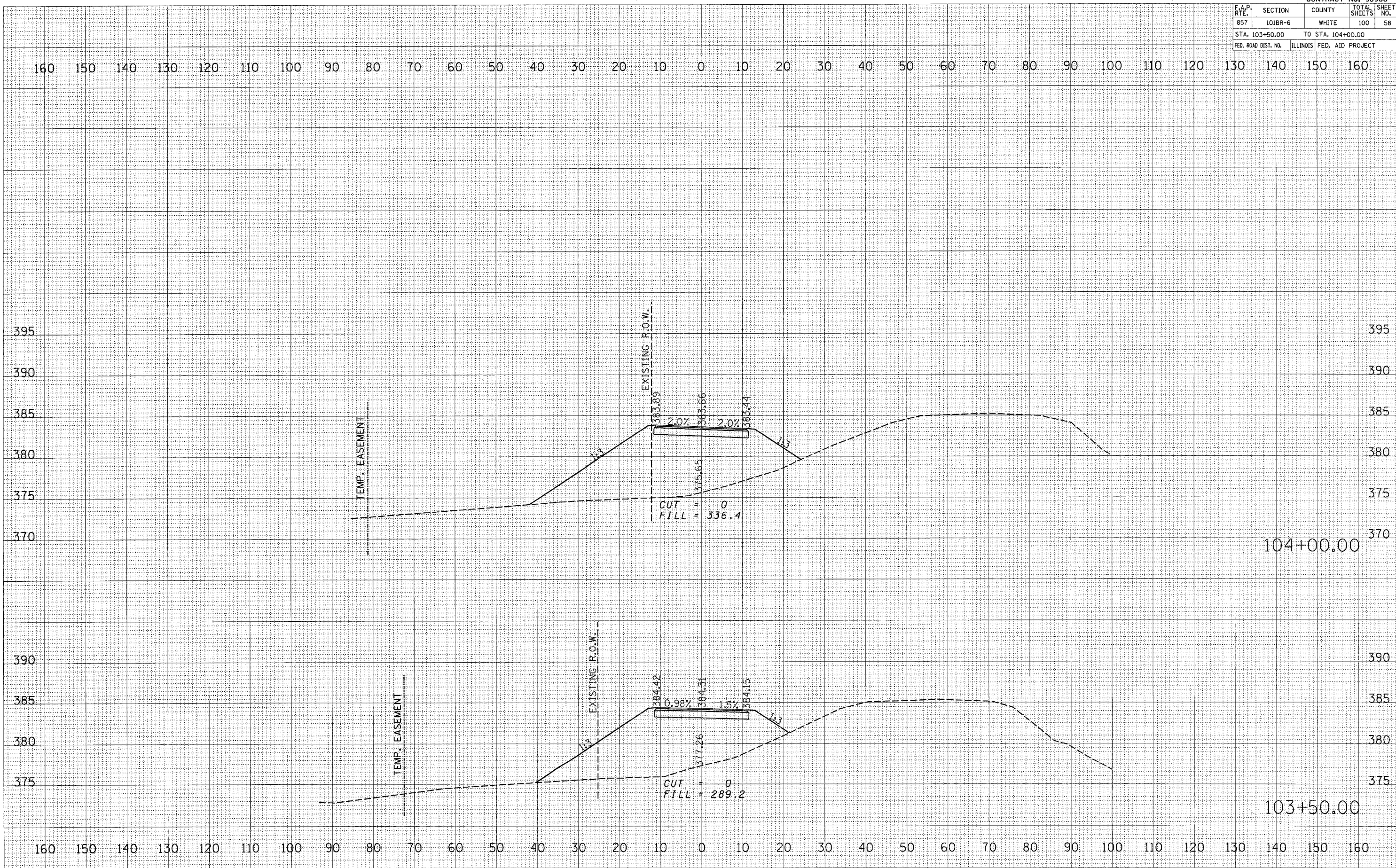


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	58
STA. 103+50.00 TO STA. 104+00.00				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SAVED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SAVED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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

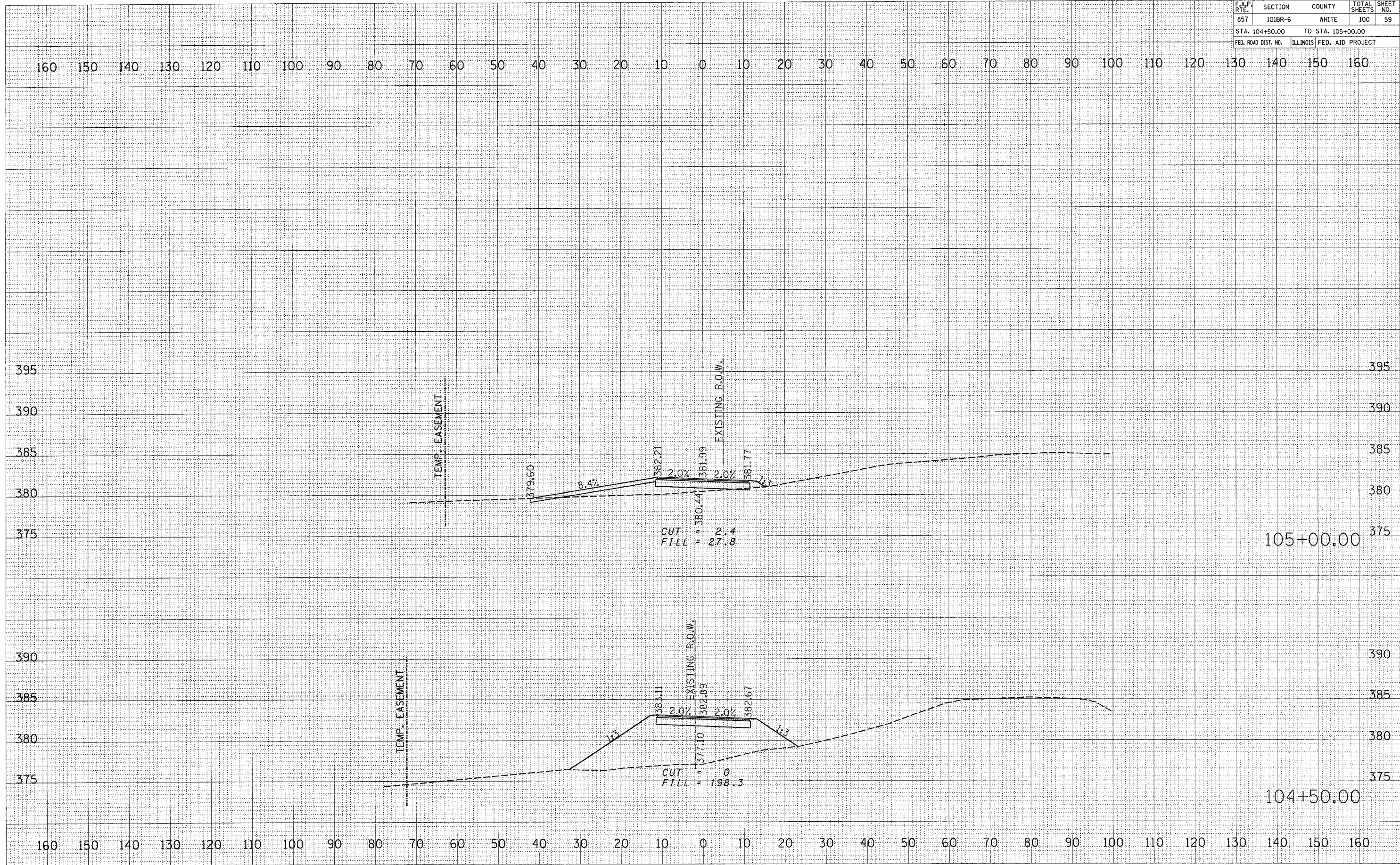


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	59
STA. 104+50.00		TO STA. 105+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY NO.	DATE
BY	
REVIEWED	
DATE	
NOTED	
BY	
DATE	

ORIGINAL SURVEY NO.	DATE
BY	
REVIEWED	
DATE	
NOTED	
BY	
DATE	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

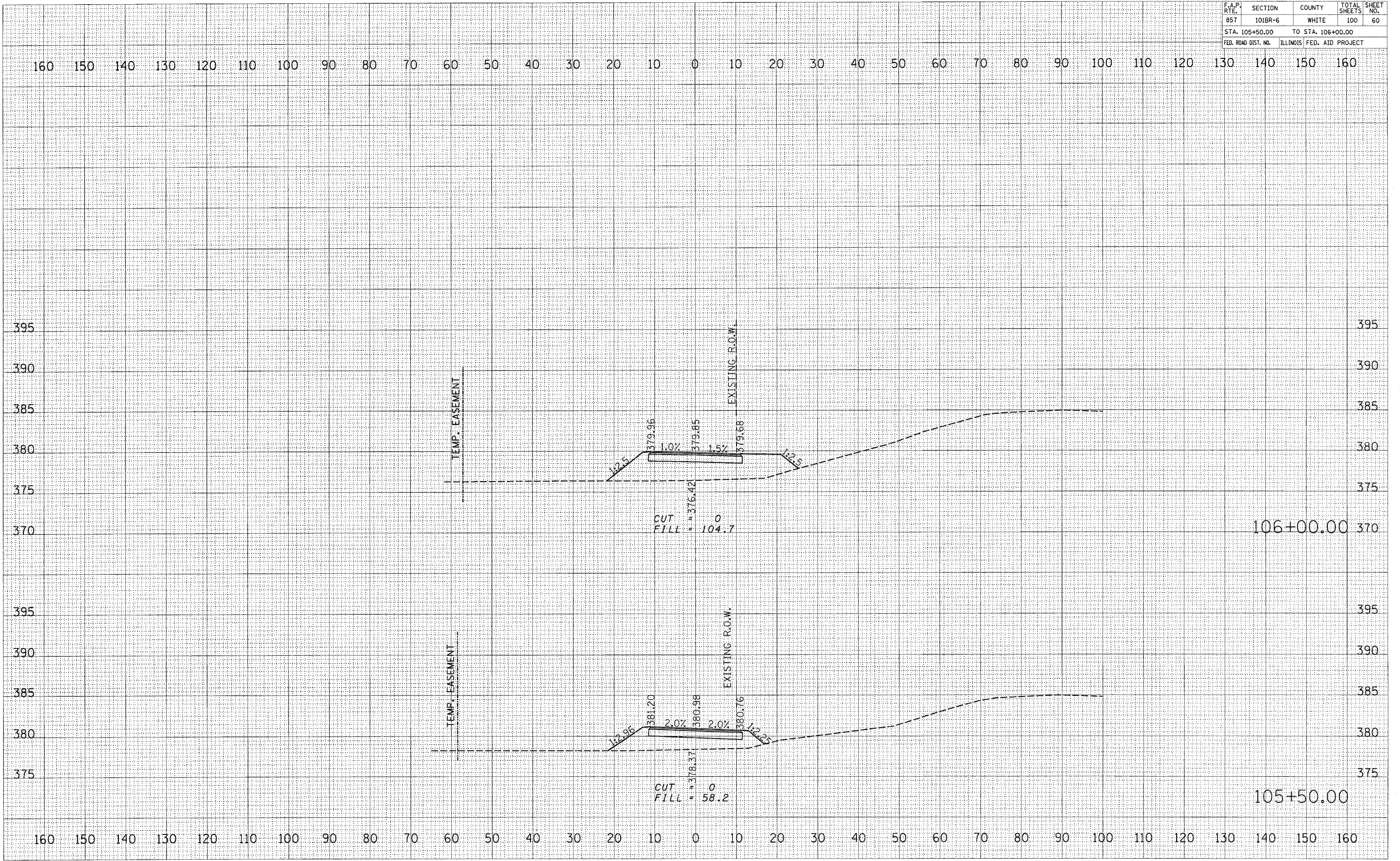


RUNAROUND DETOUR

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLotted	
	MADE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLotted	
	MADE	
	AREAS CHECKED	

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

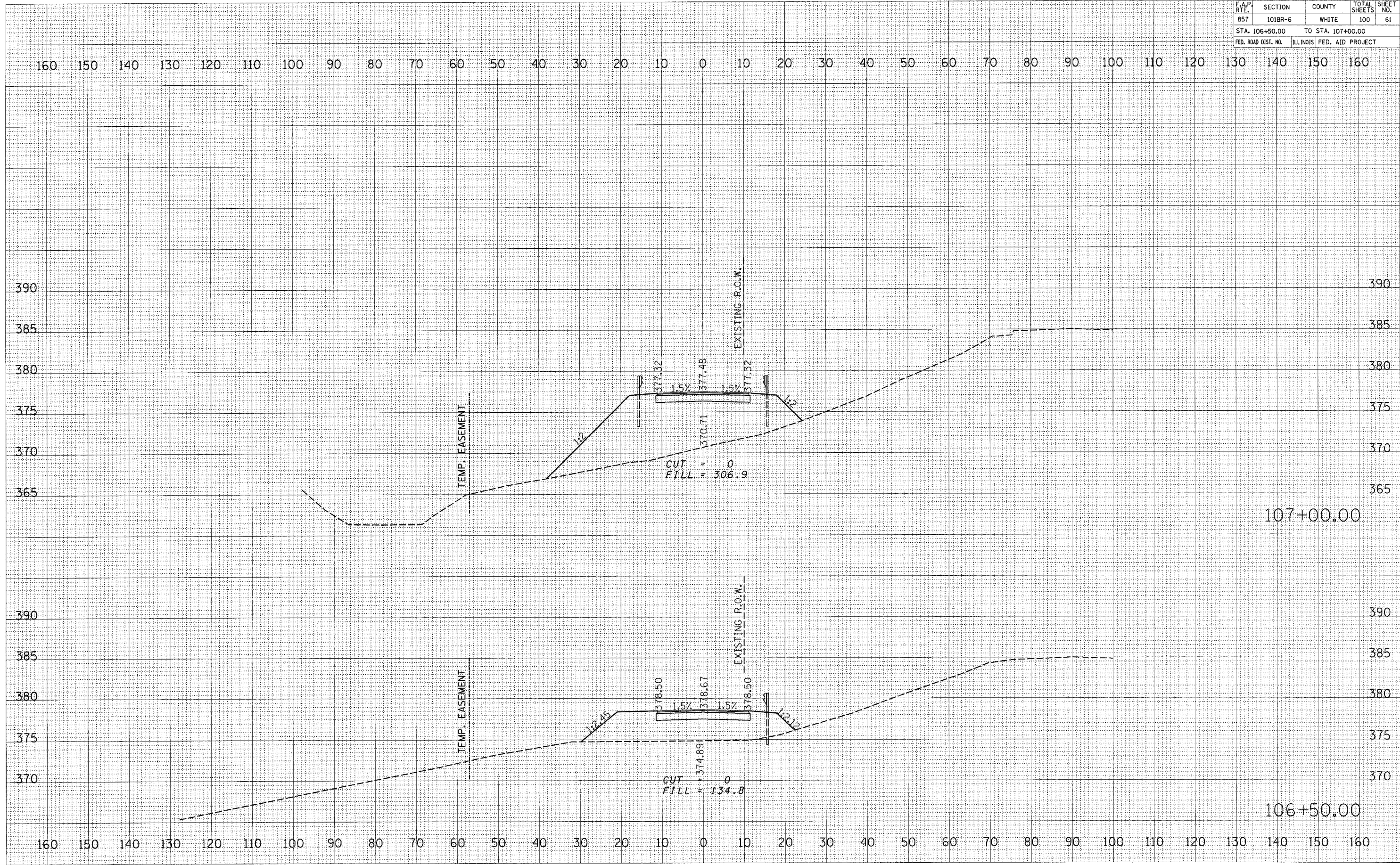


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	61
STA. 106+50.00		TO STA. 107+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

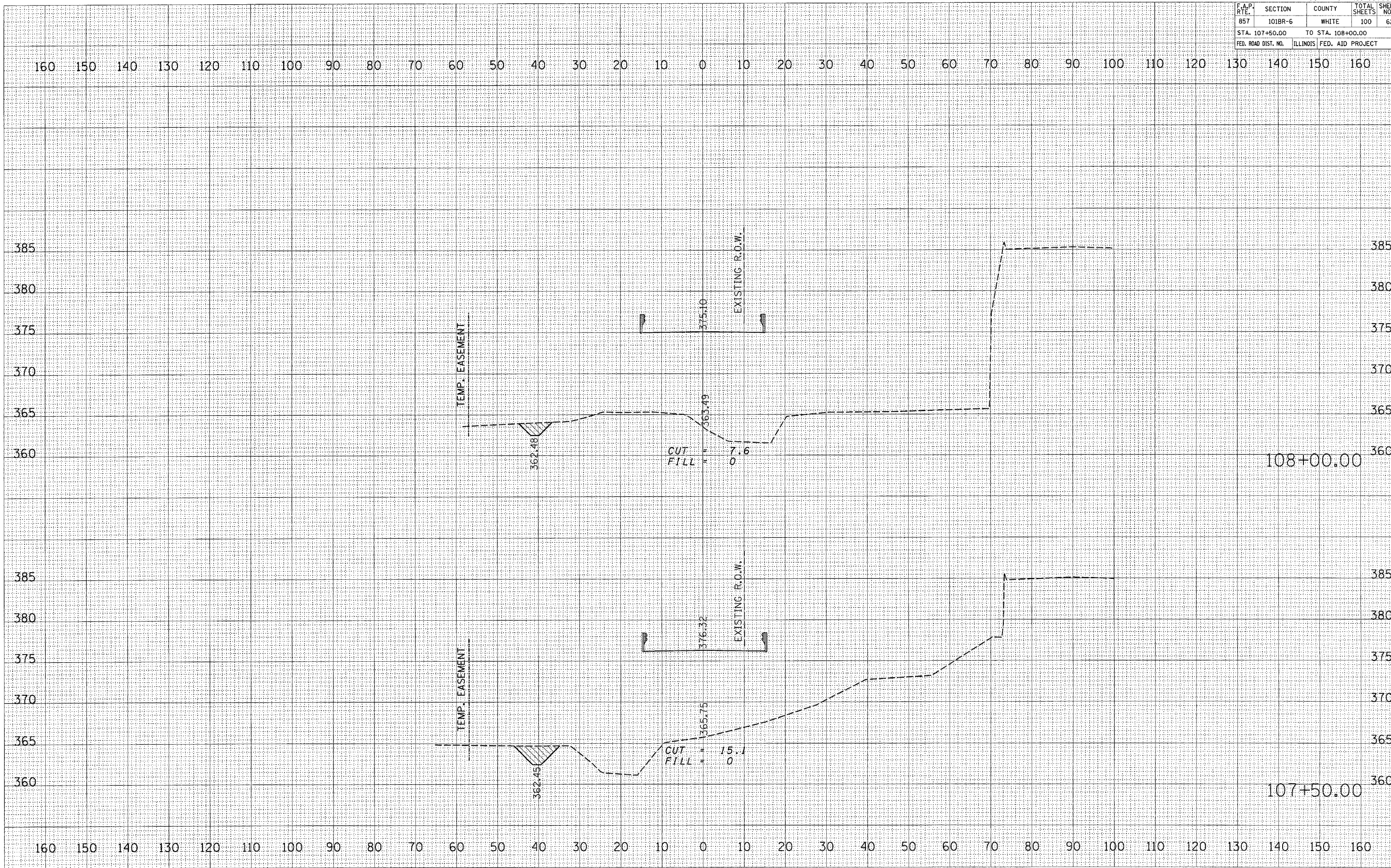


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	62
STA. 107+50.00		TO STA. 108+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

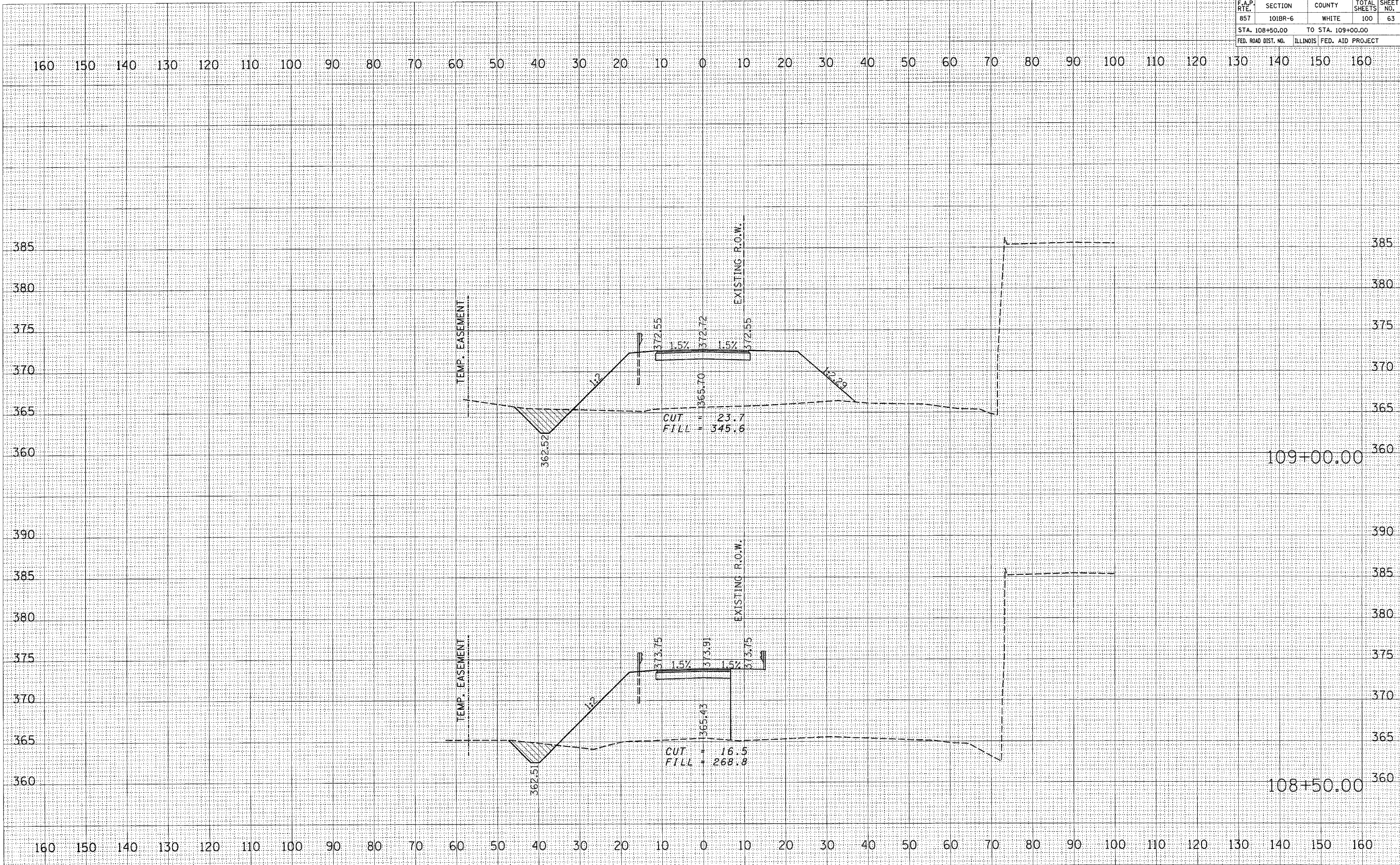


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	63
STA. 108+50.00		TO STA. 109+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
NO.	
FINAL SURVEY	
NOTED BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTED BOOK	
AREAS CHECKED	

PLOT DATE = #DATE*
 PLOT SCALE = #SCALE*
 PLOT USER = #USER*

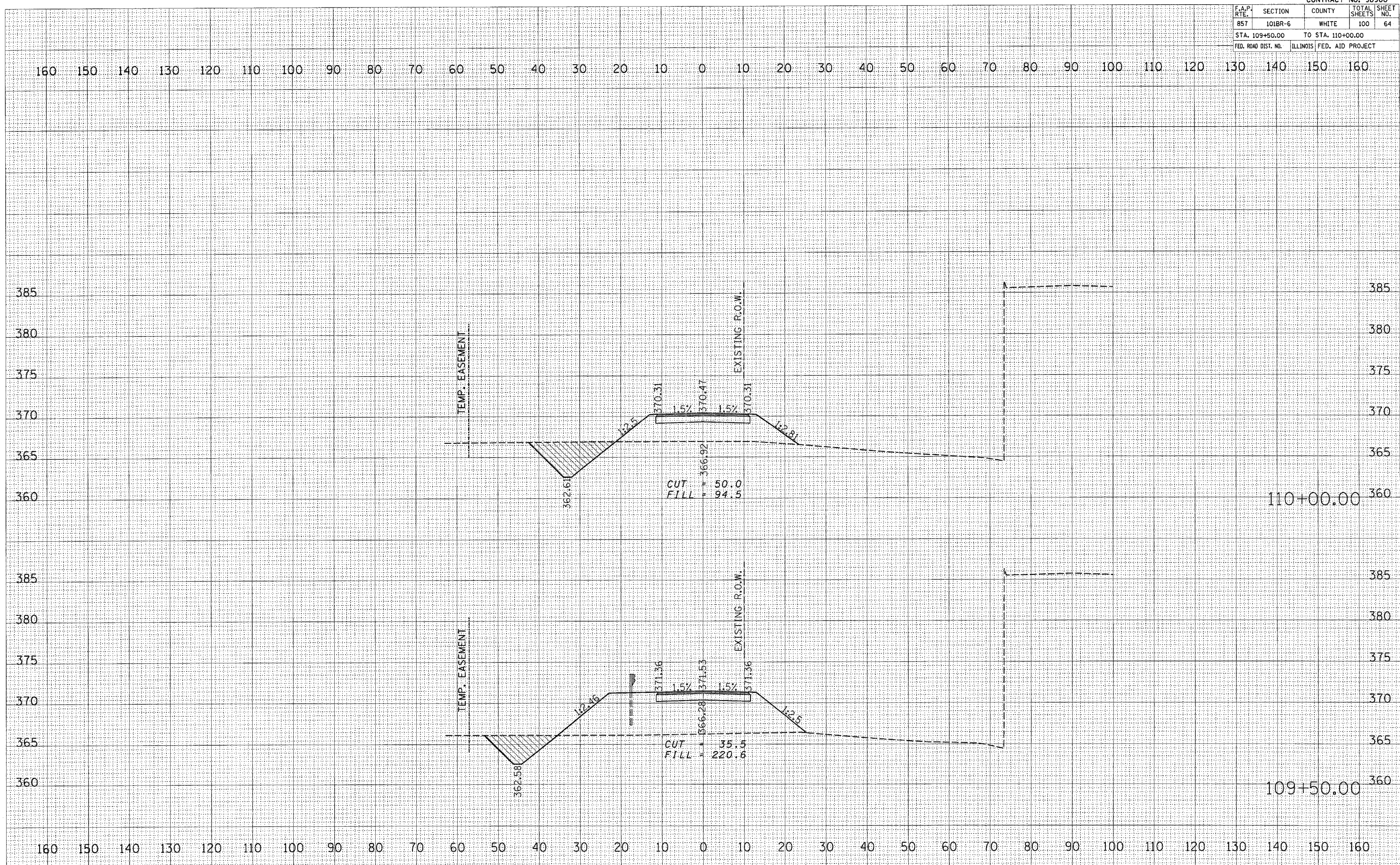


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	64
STA. 109+50.00		TO STA. 110+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINISHED	DATE
SURVEY	BY
NOTE BOOK	
NO.	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
NO.	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

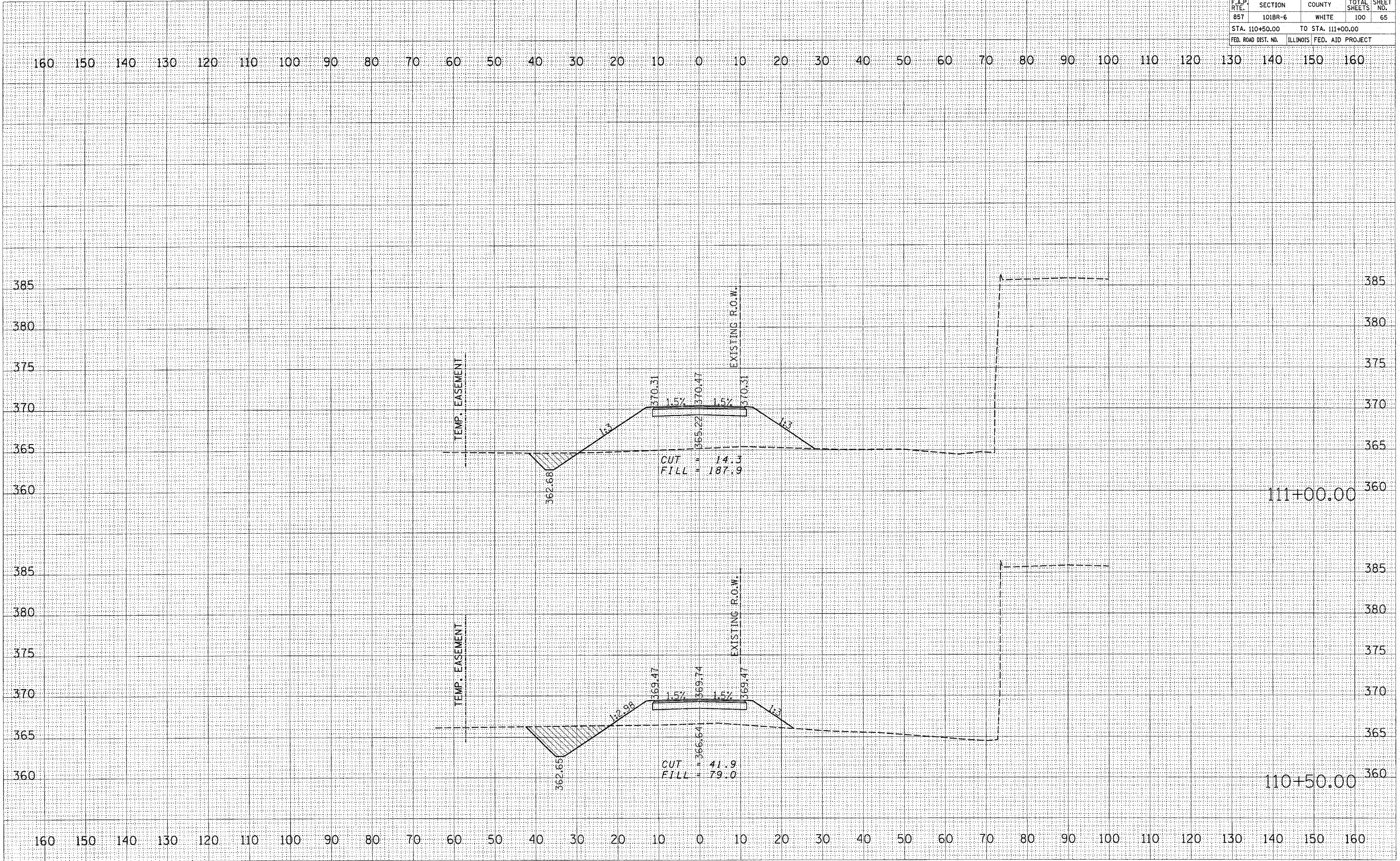


RUNAROUND DETOUR

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

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

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

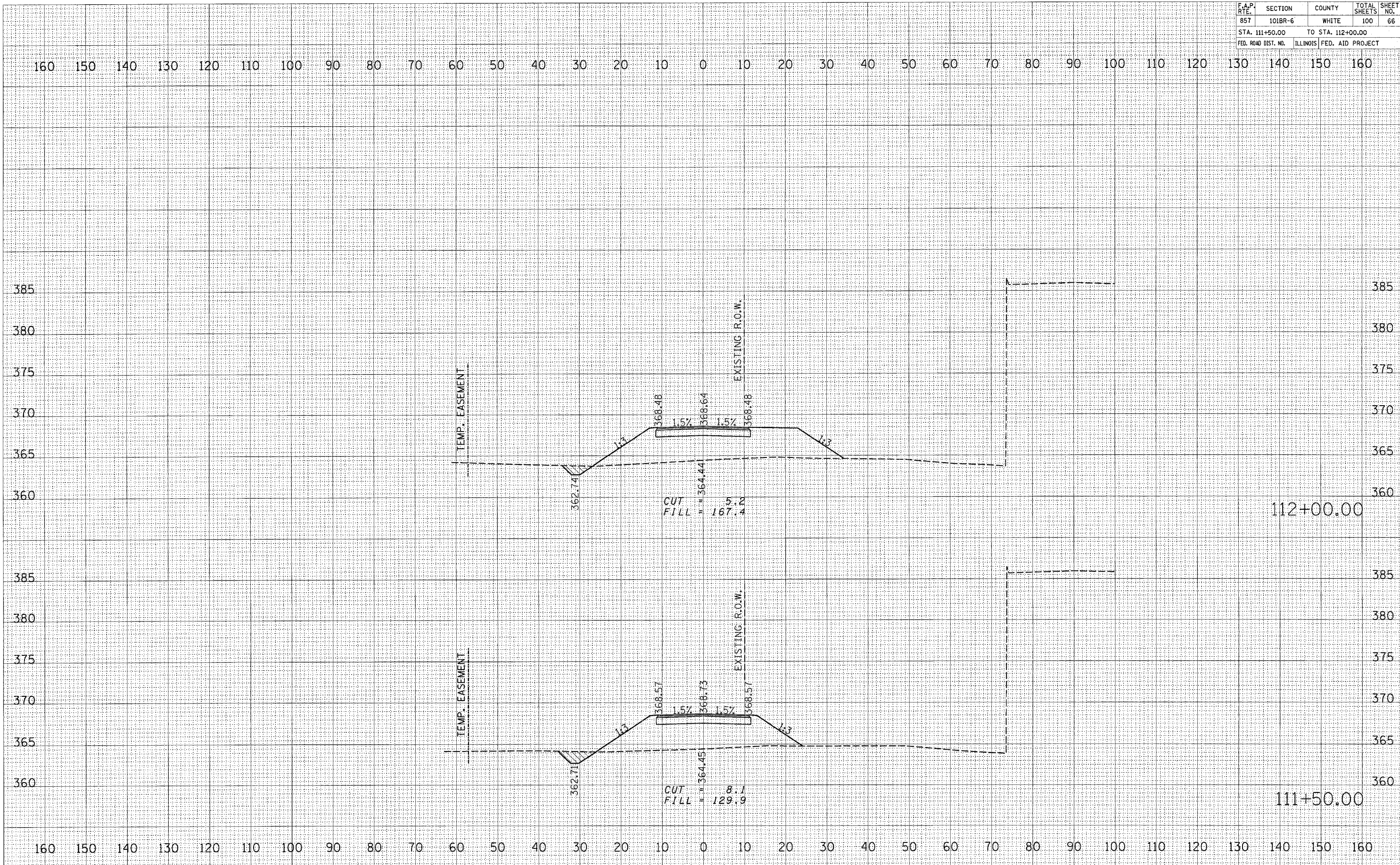


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	66
STA. 111+50.00		TO STA. 112+00.00		
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
NO.	
AREAS CHECKED	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
NO.	
AREAS CHECKED	

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

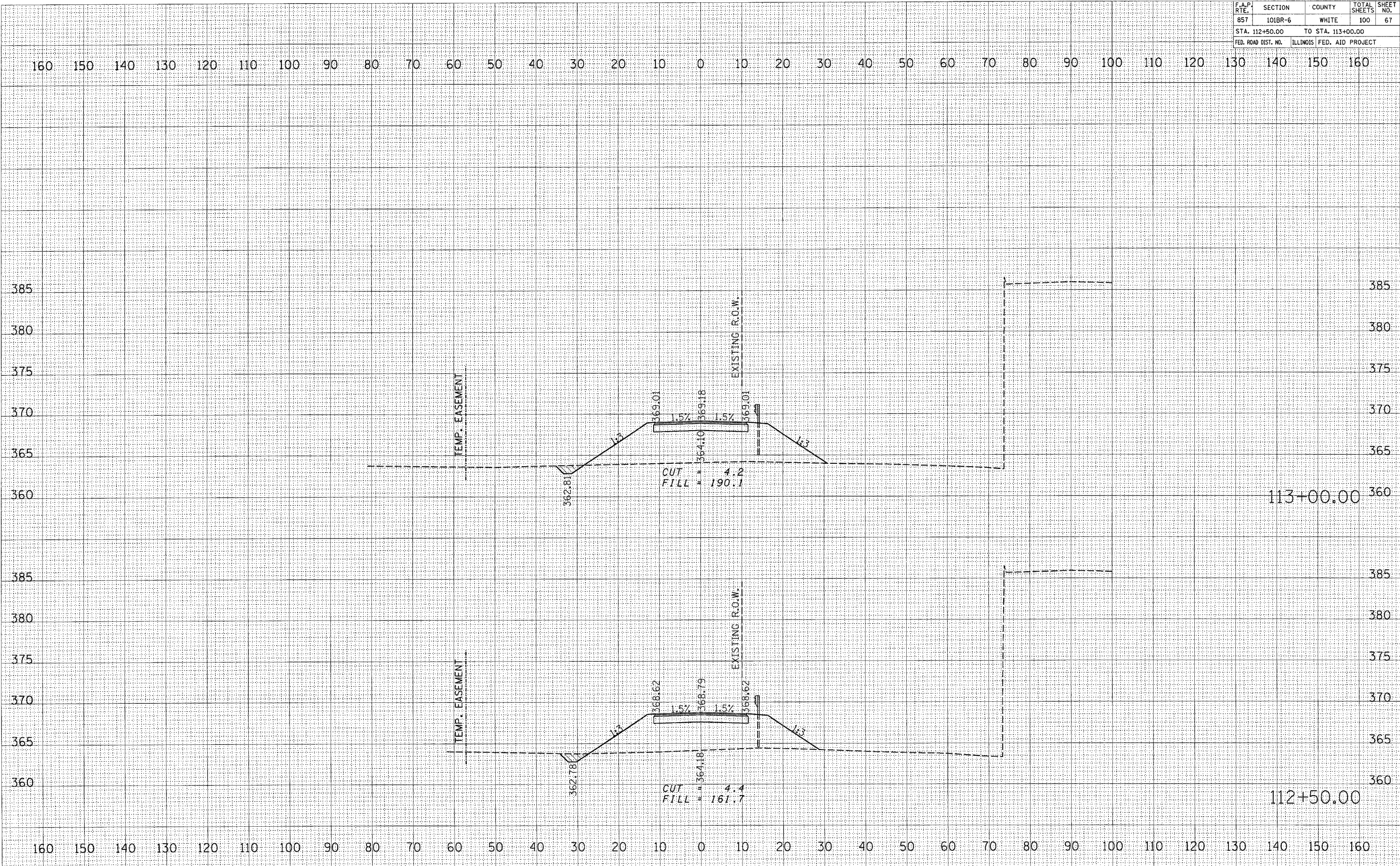


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	67
STA. 112+50.00		TO STA. 113+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

DATE	BY

PLOT DATE = *DATE*
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

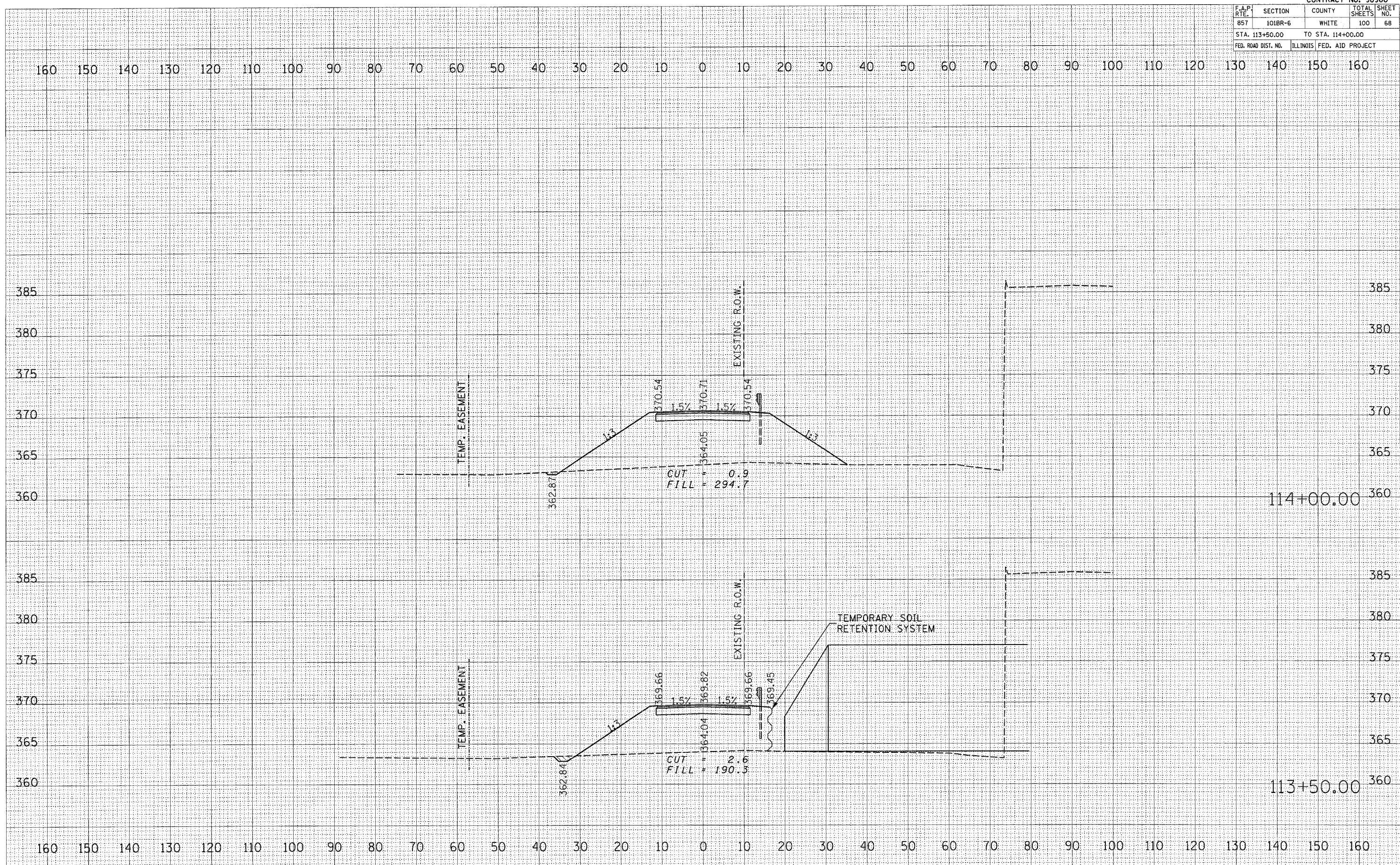


CONTRACT NO. 98960			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
857	101BR-6	WHITE	100
STA. 113+50.00		TO STA. 114+00.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY	SUBMITTED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	REVISIONS	
	CHECKED	

PLOT DATE = #DATE*
 FILE NAME = #FILE*
 PLOT SCALE = #SCALE*
 USER NAME = #USER*



CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	69
STA. 114+50.00			TO STA. 115+00.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BY _____ DATE _____

FINAL SURVEY _____ SURVEYED _____

NOTE BOOK _____ PLOTTED _____

NO. _____ AREAS CHECKED _____

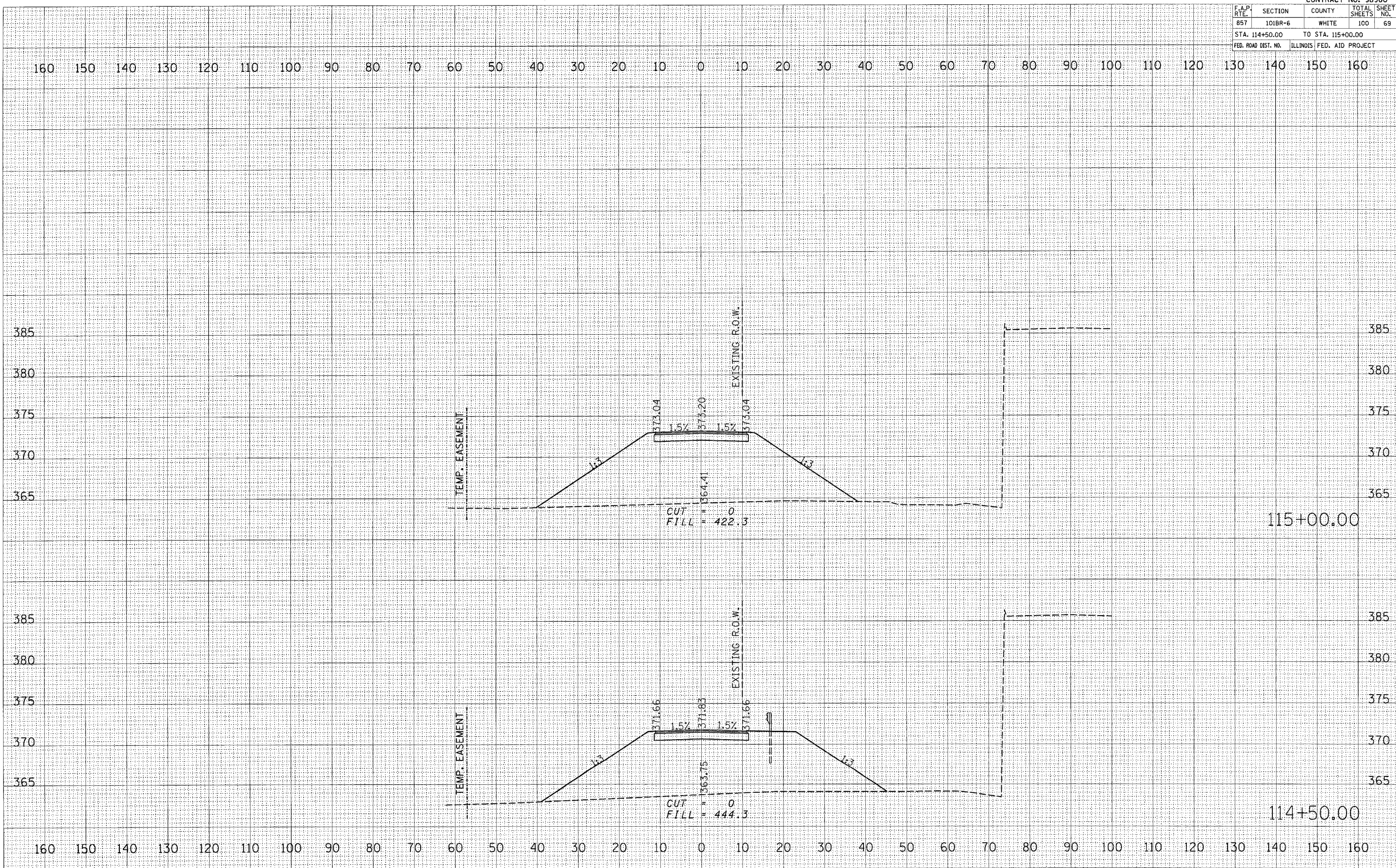
BY _____ DATE _____

ORIGINAL SURVEY _____ SURVEYED _____

NOTE BOOK _____ PLOTTED _____

NO. _____ AREAS CHECKED _____

PLOT DATE = 04/27/05
 PLOT SCALE = 1"=40'
 USER NAME = MUSER



CONTRACT NO. 98960			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
857	101BR-6	WHITE	100
STA. 115+50.00		TO STA. 116+00.00	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE _____ BY _____

ORIGINAL SURVEY _____ SURVEYED _____

NOTE BOOK _____ PLOTTED _____

NO. _____ AREAS CHECKED _____

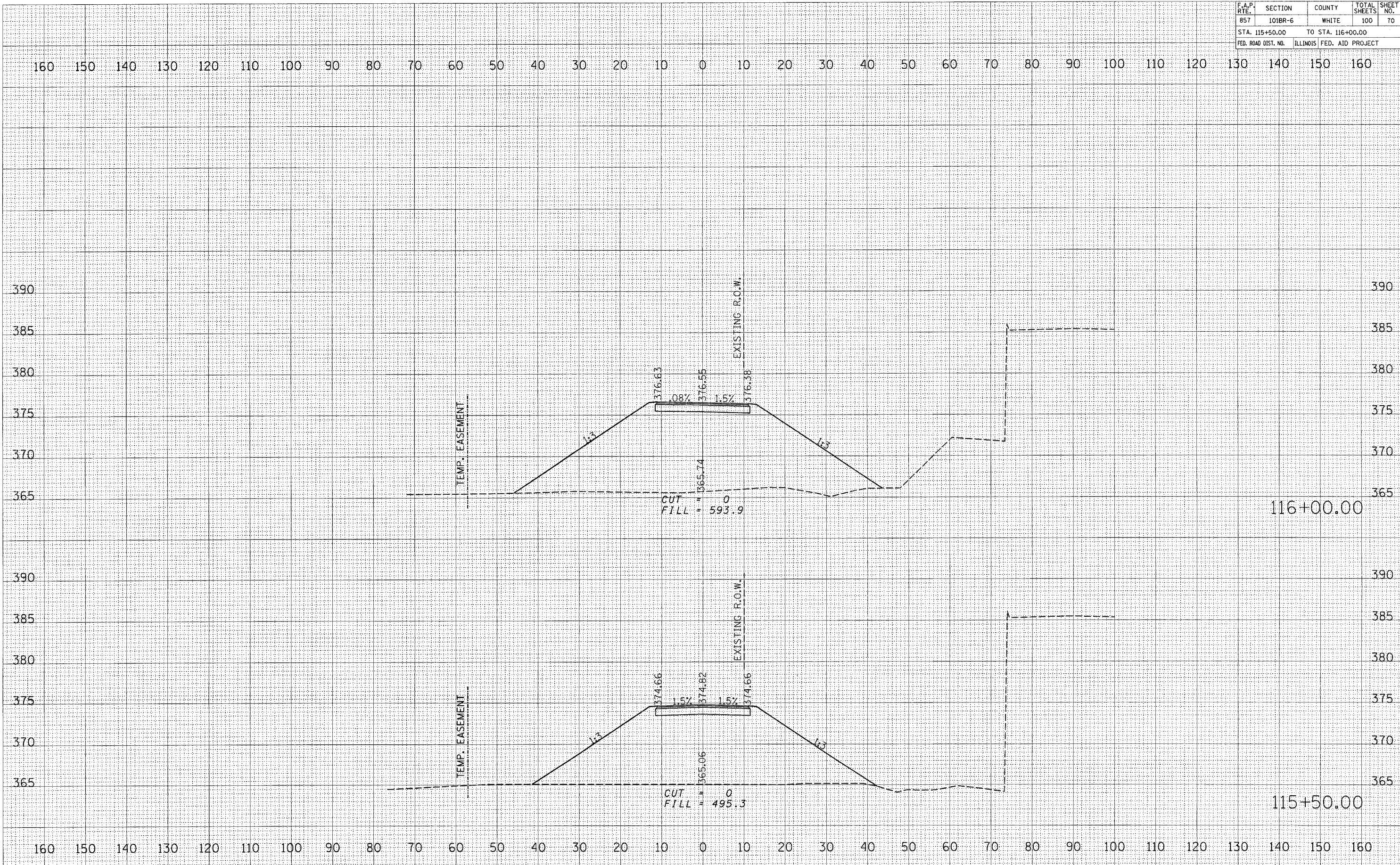
DATE _____ BY _____

ORIGINAL SURVEY _____ SURVEYED _____

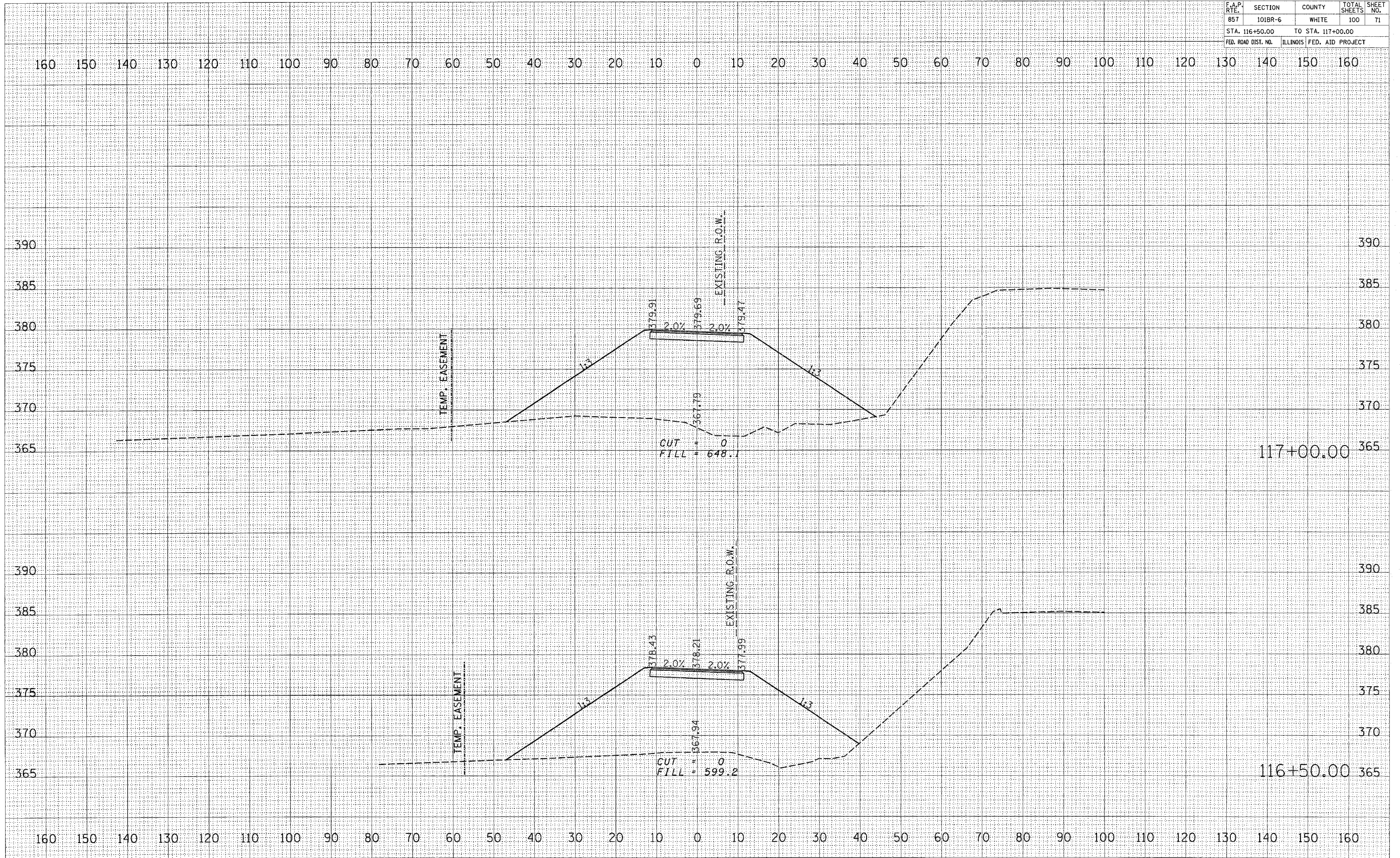
NOTE BOOK _____ PLOTTED _____

NO. _____ AREAS CHECKED _____

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#



CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	71
STA. 116+50.00		TO STA. 117+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



BY: _____ DATE: _____

FINAL SURVEY _____

NOTE BOOK _____

AREAS CHECKED _____

BY: _____ DATE: _____

ORIGINAL SURVEY _____

NOTE BOOK _____

AREAS CHECKED _____

PLOT DATE = #DATE#

FILE NAME = #FILE#

PLOT SCALE = #SCALE#

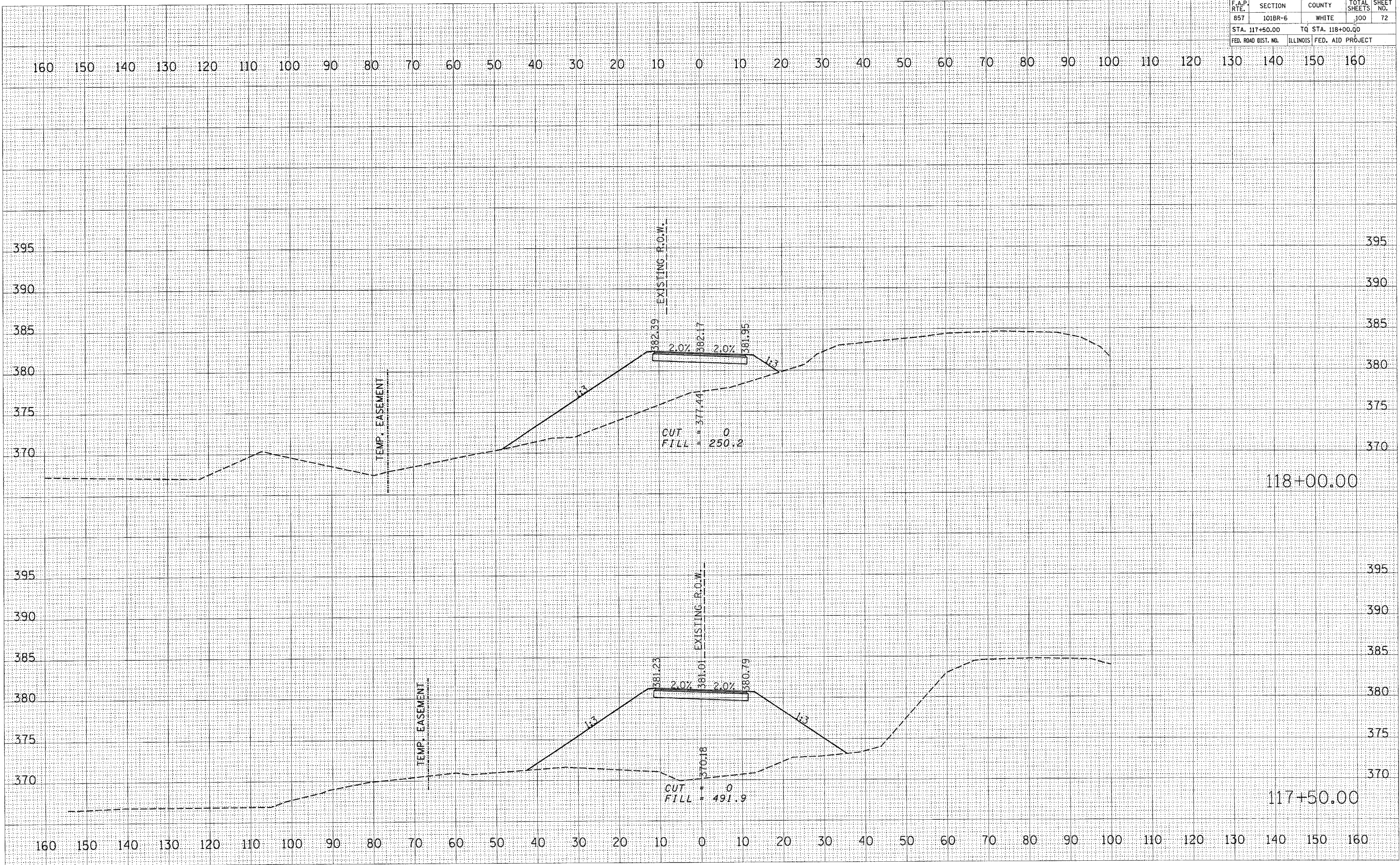
USER NAME = #USER#

CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	72
STA. 117+50.00		TQ STA. 118+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
USER NAME = #USER#

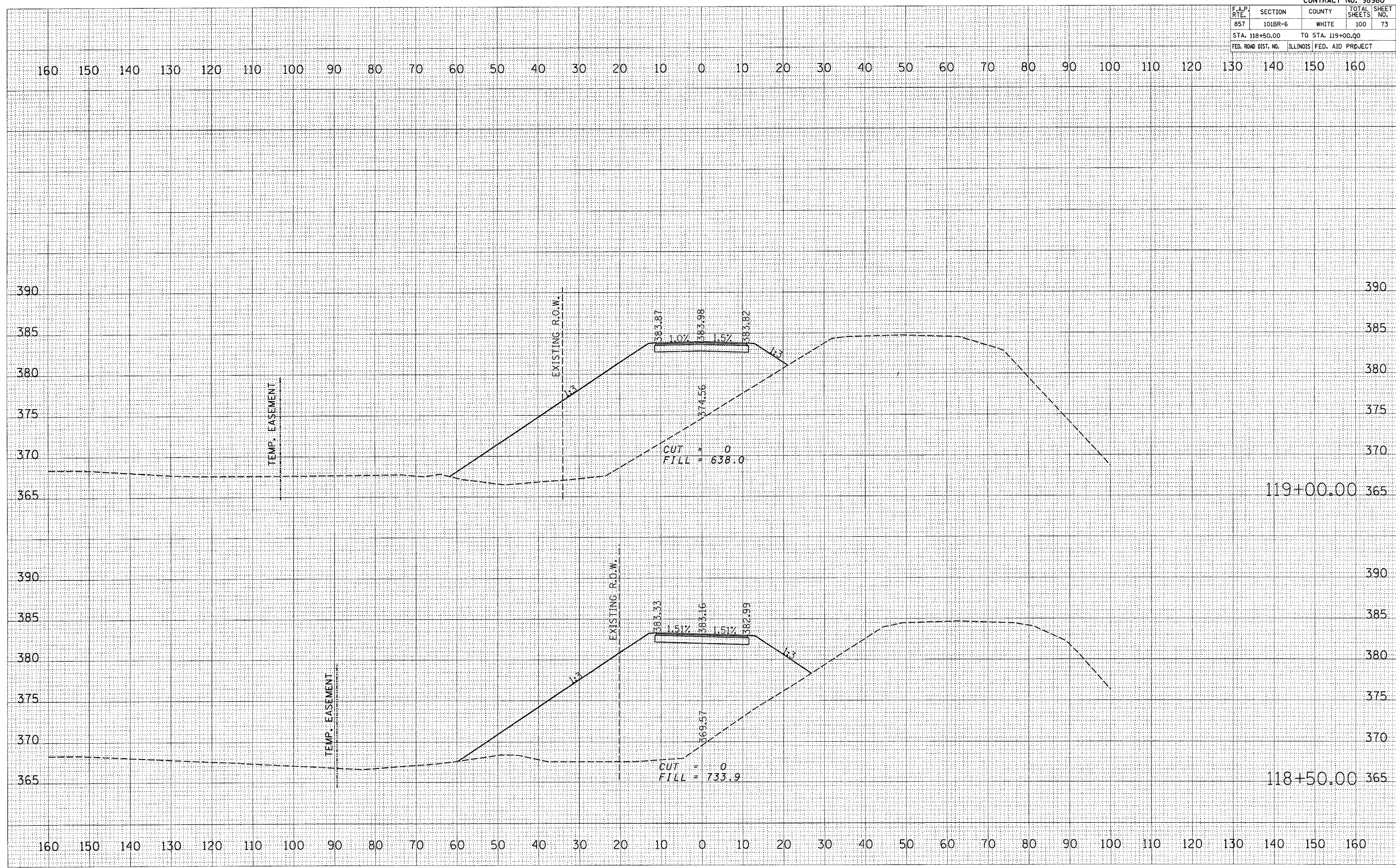


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	73
STA. 118+50.00 TO STA. 119+00.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

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

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

PLOT DATE * * * * *
 FILE NAME * * * * *
 PLOT SCALE * * * * *
 USER NAME * * * * *

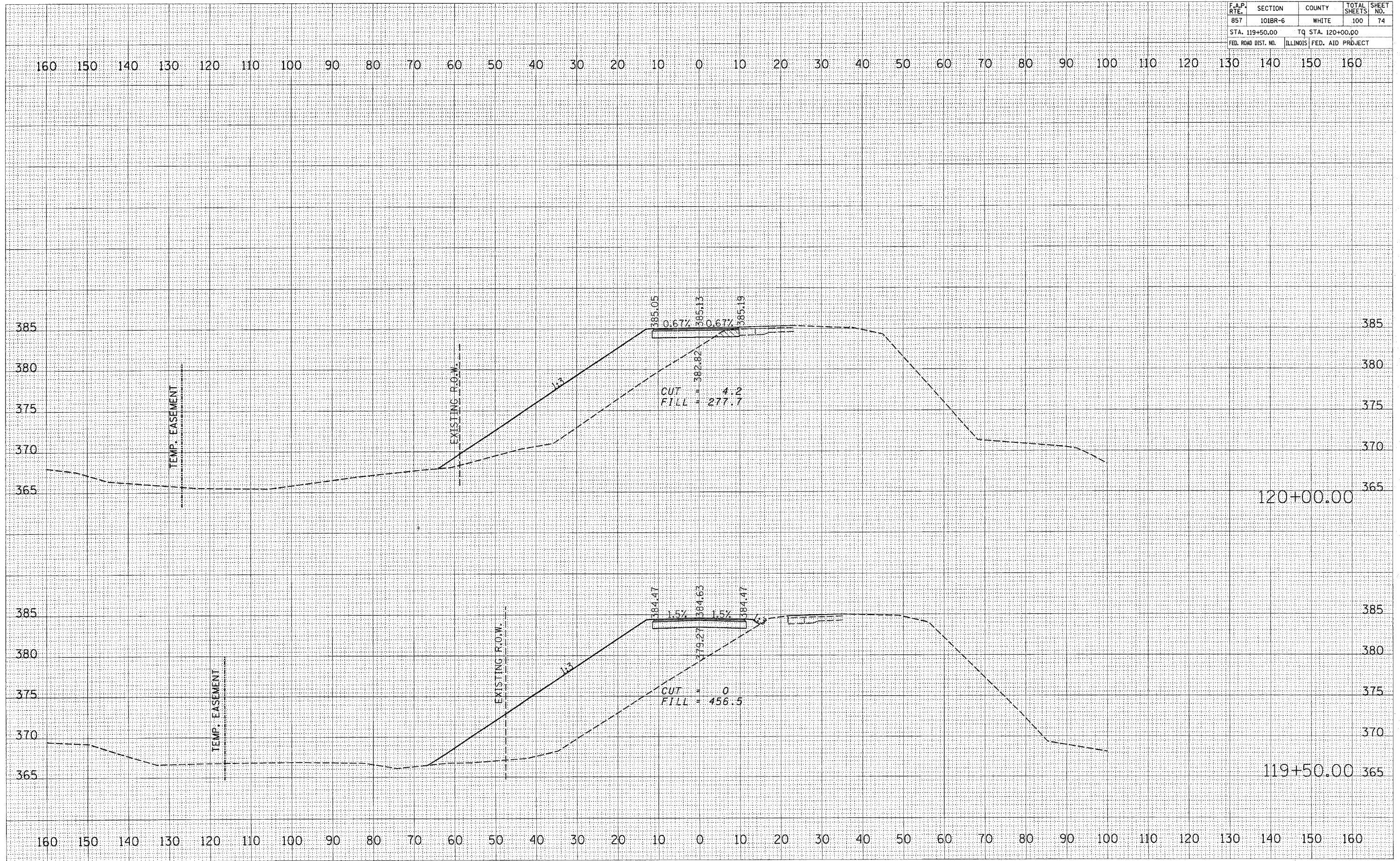


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	74
STA. 119+50.00		TQ STA. 120+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	DATE
NO.	
BY	
APPROVED	
DATE	
NO.	
BY	
APPROVED	
DATE	
NO.	

ORIGINAL SURVEY	DATE
NO.	
BY	
APPROVED	
DATE	
NO.	
BY	
APPROVED	
DATE	
NO.	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

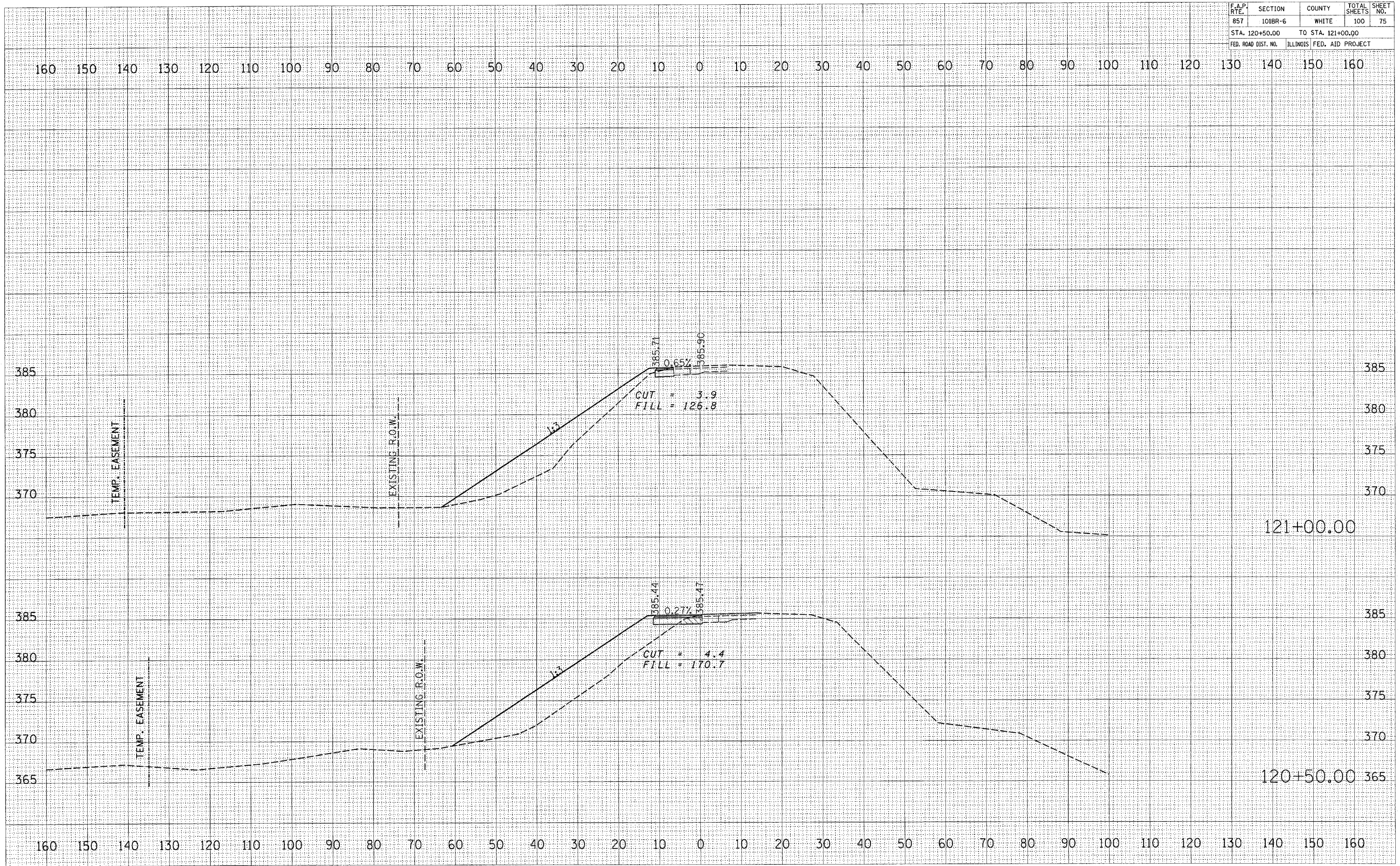


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	75
STA. 120+50.00		TO STA. 121+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

ORIGINAL SURVEY NO. _____
 PLOTTED BY _____
 TEMPLATE NO. _____
 AREAS CHECKED _____

PLOT DATE * * * DATE * * *
 FILE NAME * * * FILE * * *
 USER NAME * * * USER * * *

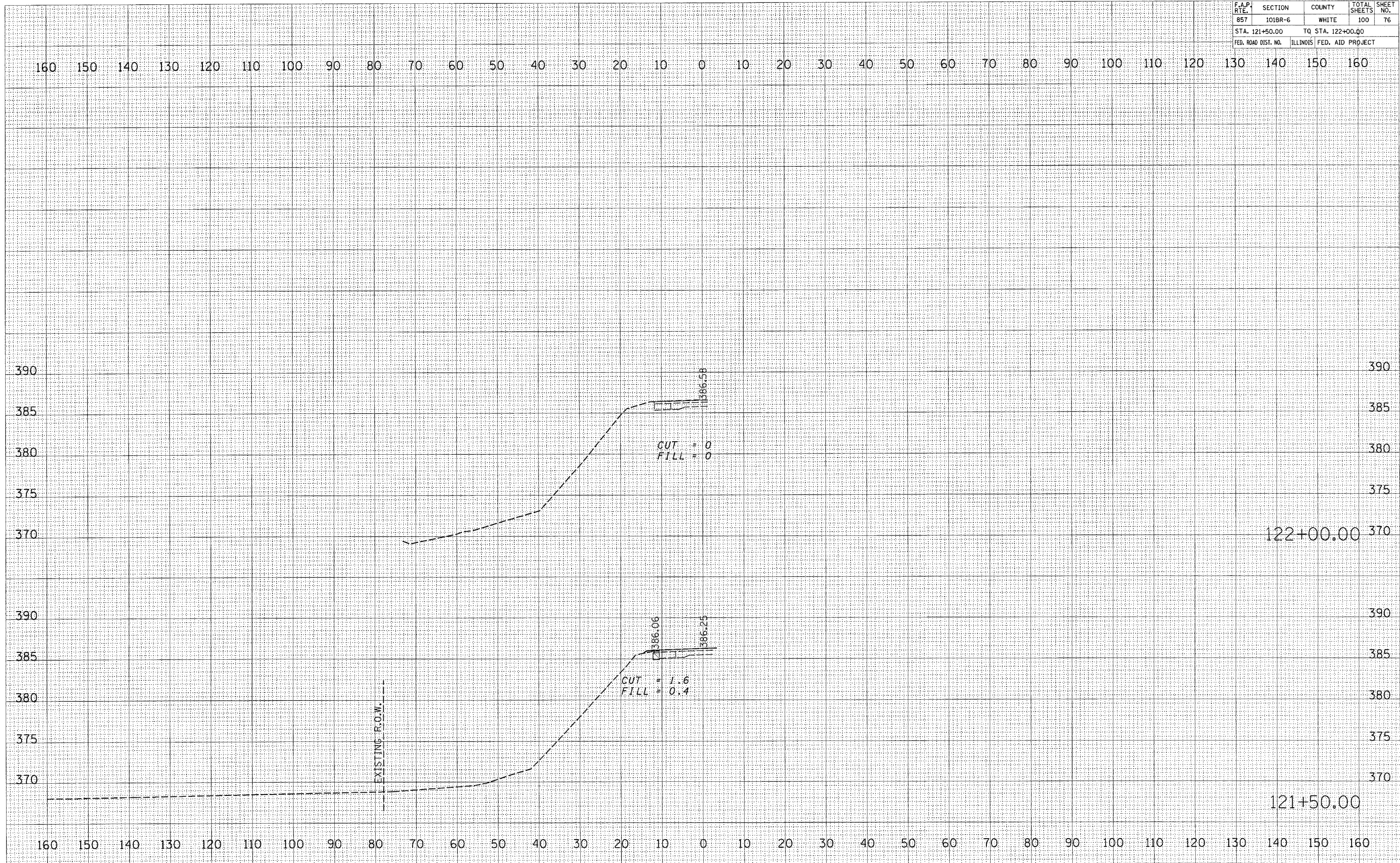


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	76
STA. 121+50.00		TQ STA. 122+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	DATE
BY	
SURVEYED	
NOTE BOOK	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
BY	
SURVEYED	
NOTE BOOK	
NO.	
AREAS CHECKED	

PLOT DATE = 04/28/85
 FILE NAME = 0101BR-6
 PLOT SCALE = 1"=40'
 USER NAME = MJSBHW

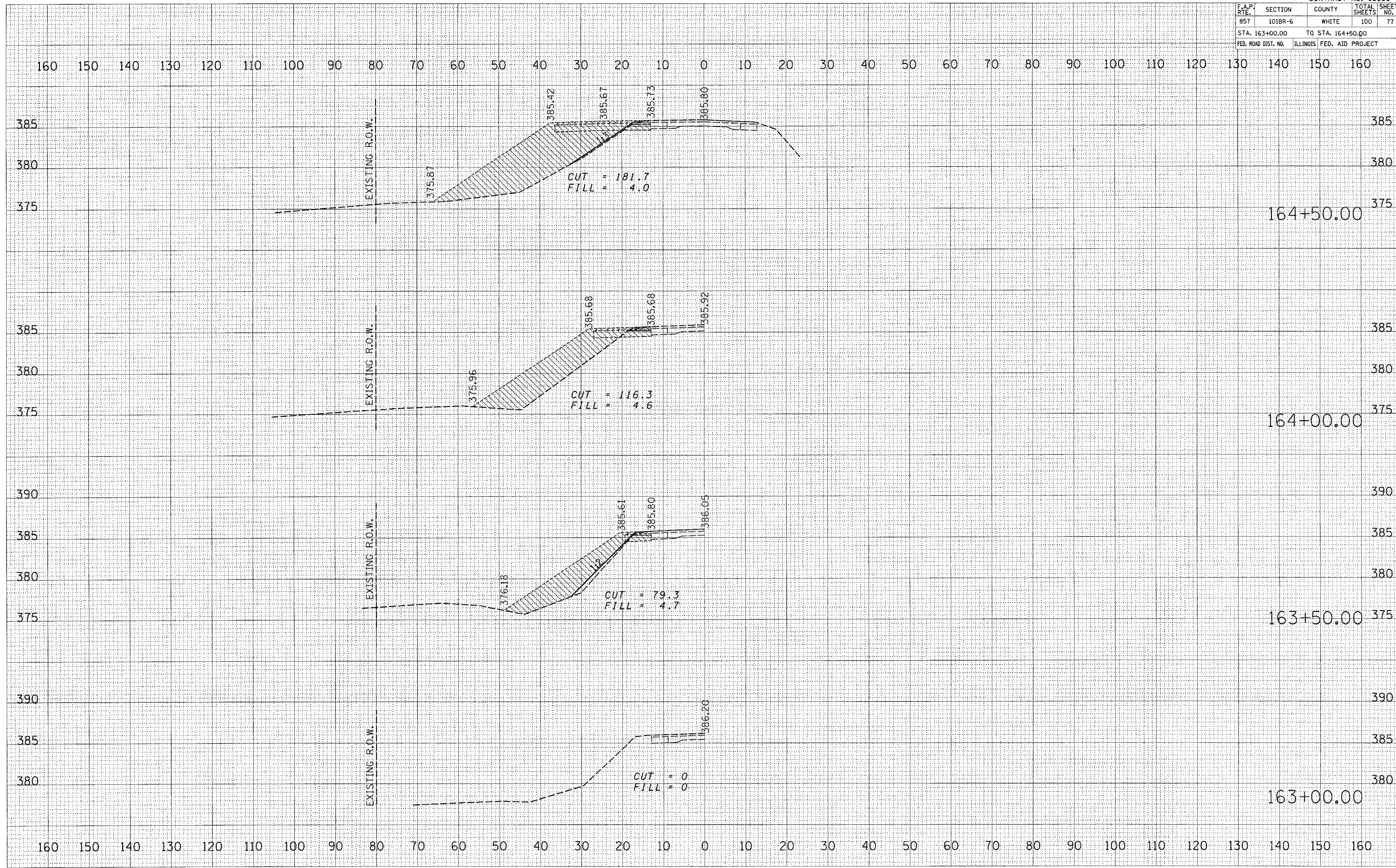


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	77
STA. 163+00.00		TO STA. 164+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY
 NO. _____
 CHECKED BY _____
 DATE _____

ORIGINAL SURVEY
 NO. _____
 CHECKED BY _____
 DATE _____

PLOT DATE * @DATE*
 FILE NAME * @FILE*
 PLOT SCALE * @SCALE*
 USER NAME * @USER*

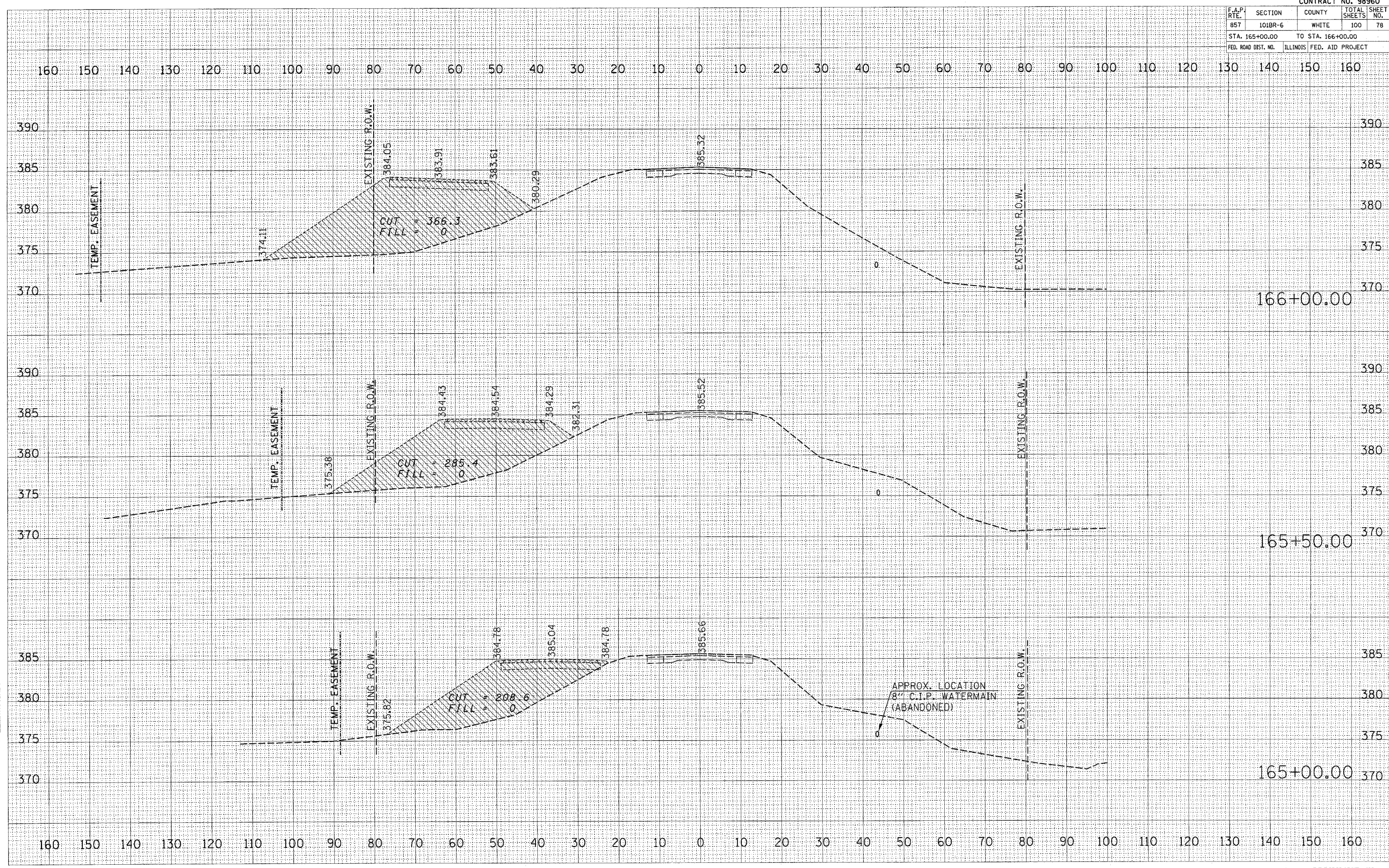


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	78
STA. 165+00.00		TO STA. 166+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

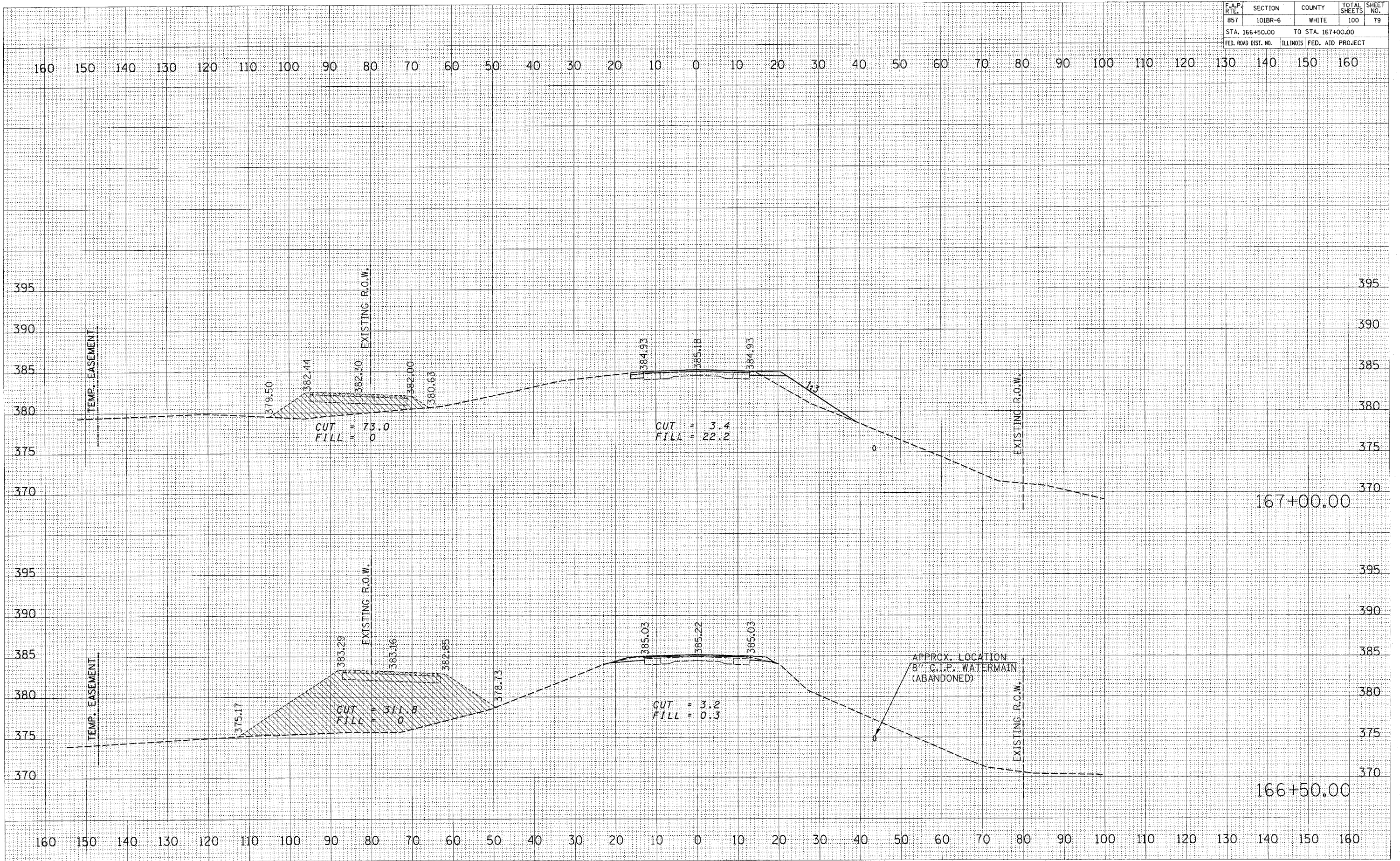


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	79
STA. 166+50.00		TO STA. 167+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 = #DATE#
 FILE NAME = #FILE#
 USER NAME = #USER#



CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	80
STA. 167+50.00 TO STA. 168+00.00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

BY: _____ DATE: _____

FINAL SURVEY SURVEYED _____ PLOTTED _____

NOTE BOOK NO. _____ DATE _____

AREAS CHECKED _____

BY: _____ DATE: _____

ORIGINAL SURVEY SURVEYED _____ PLOTTED _____

NOTE BOOK NO. _____ DATE _____

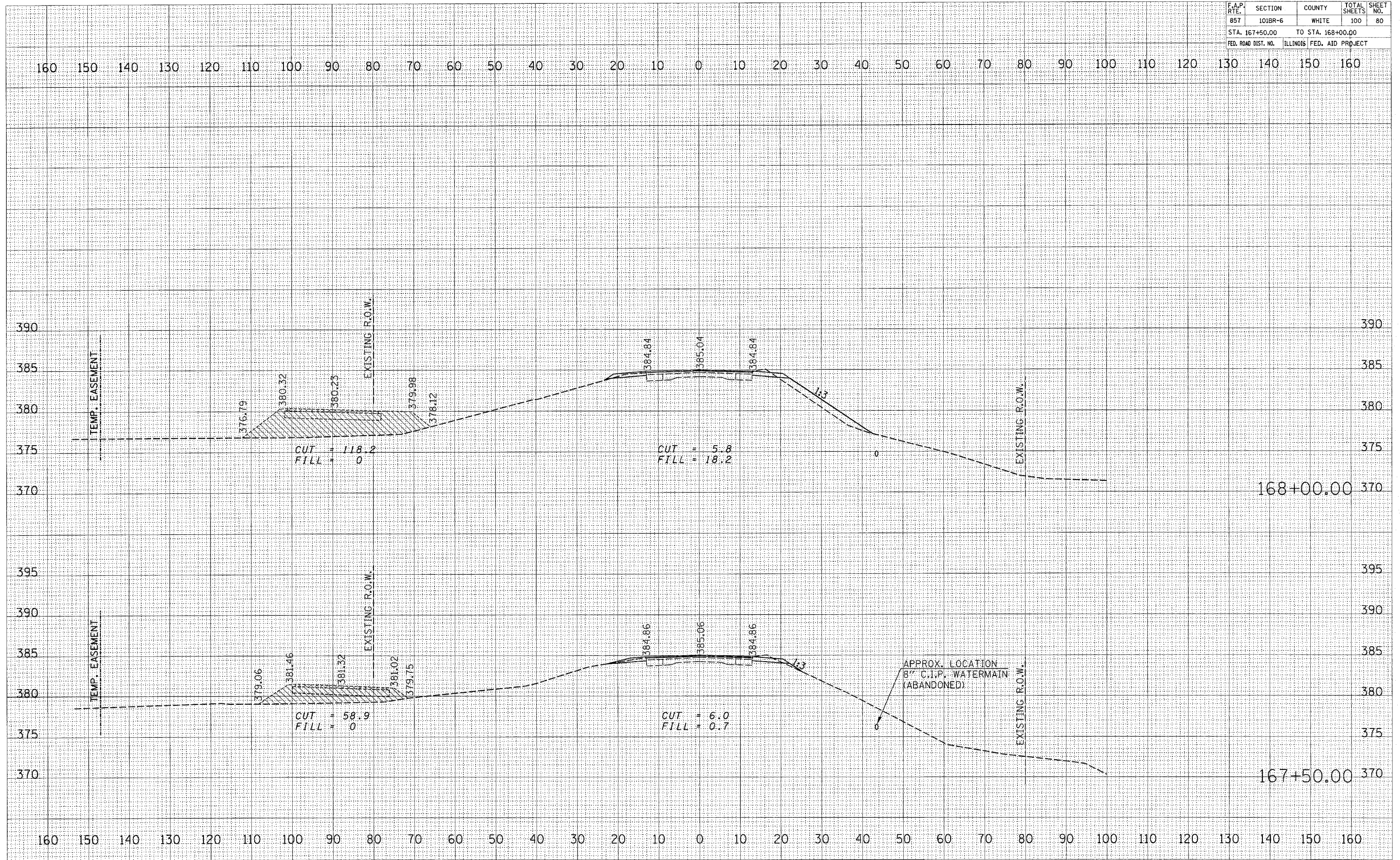
AREAS CHECKED _____

PLOT DATE: #DATE#

FILE NAME: #FILE#

PLOT SCALE: #SCALE#

USER NAME: #USER#

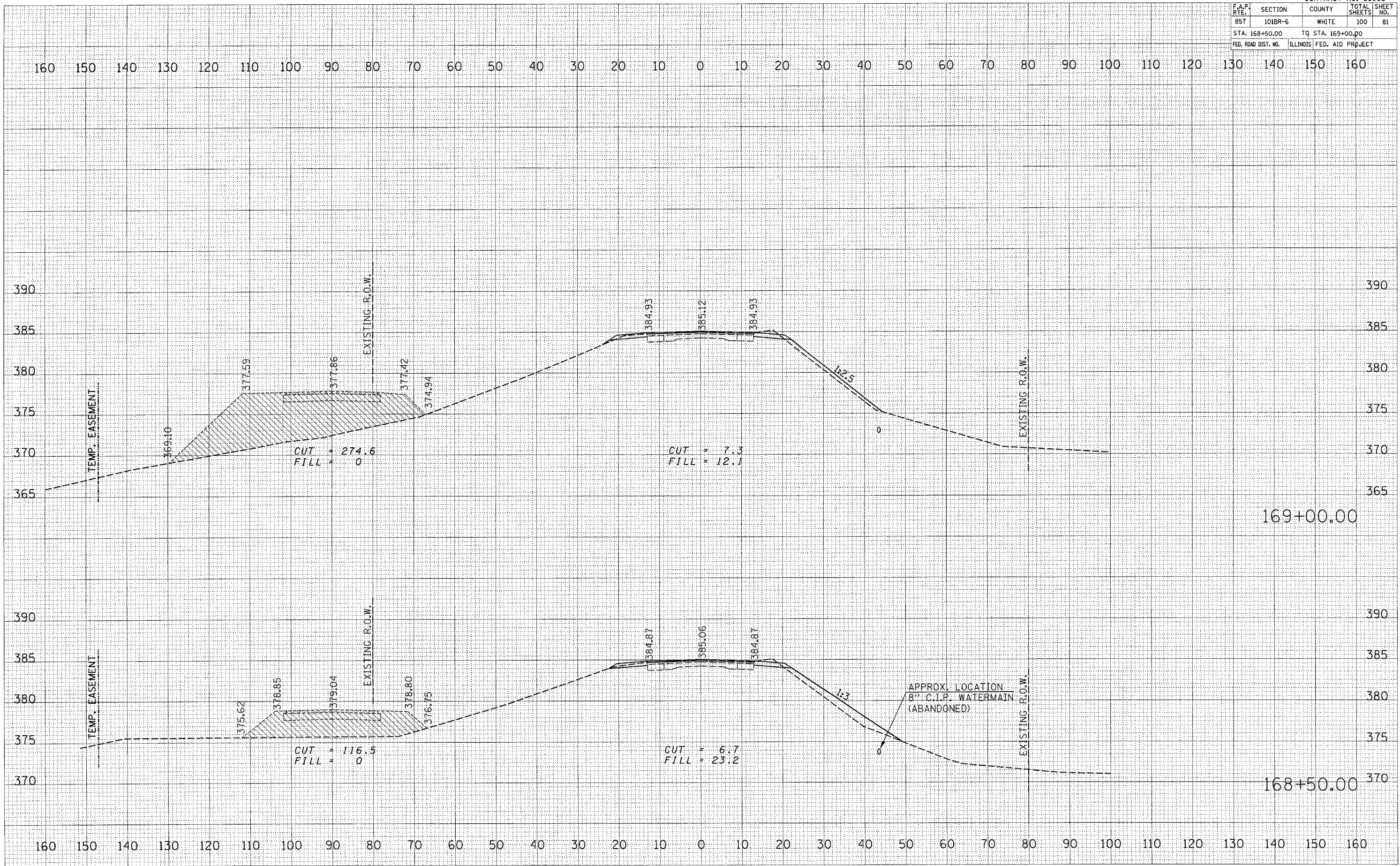


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	81
STA. 168+50.00		TQ STA. 169+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = #DATE#
 FILE NAME = #SCALE#
 USER NAME = #USER#

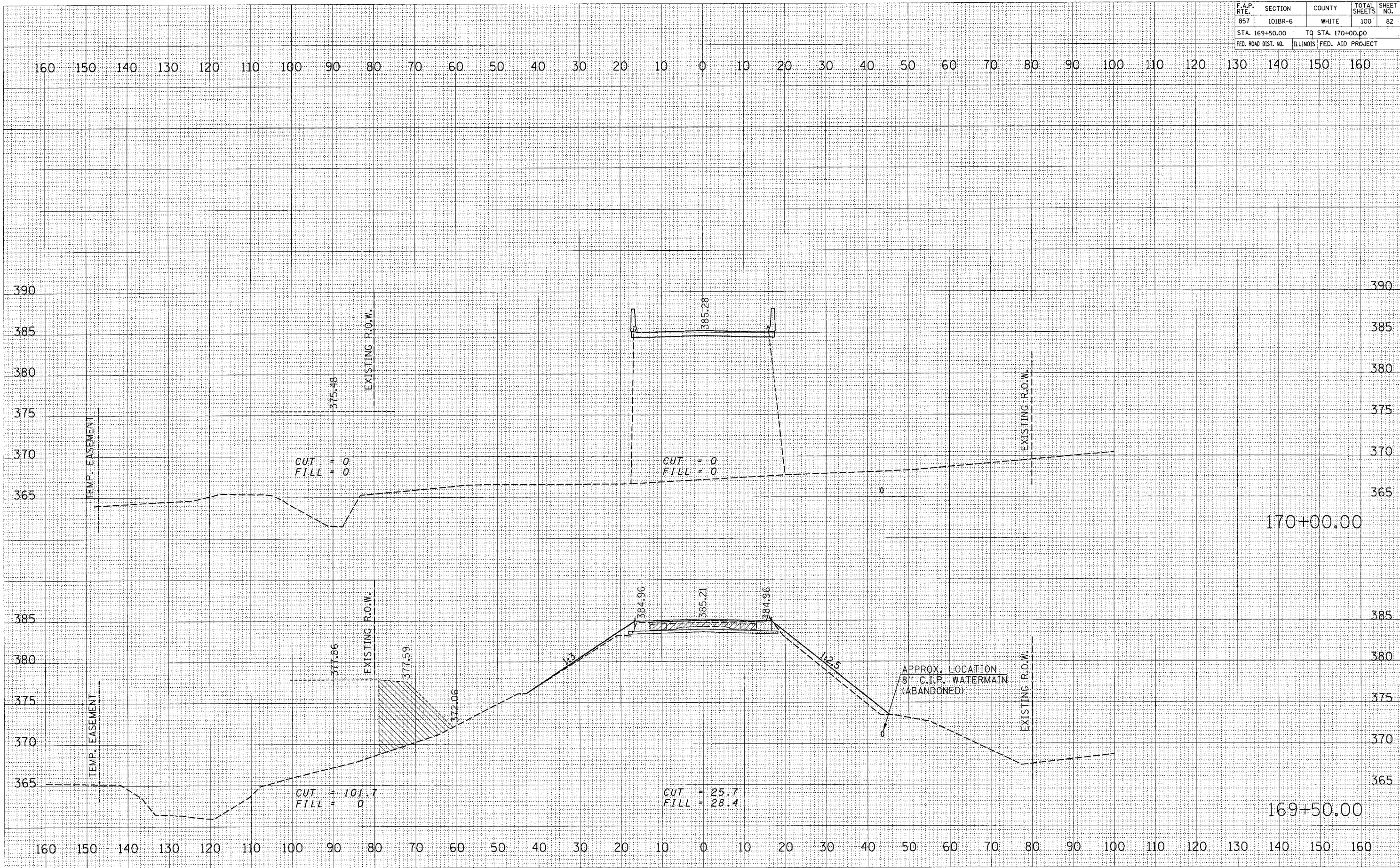


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	82
STA. 169+50.00		TO STA. 170+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

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

PLOT DATE * DATE *
 FILE NAME * FILE *
 USER NAME * USER *

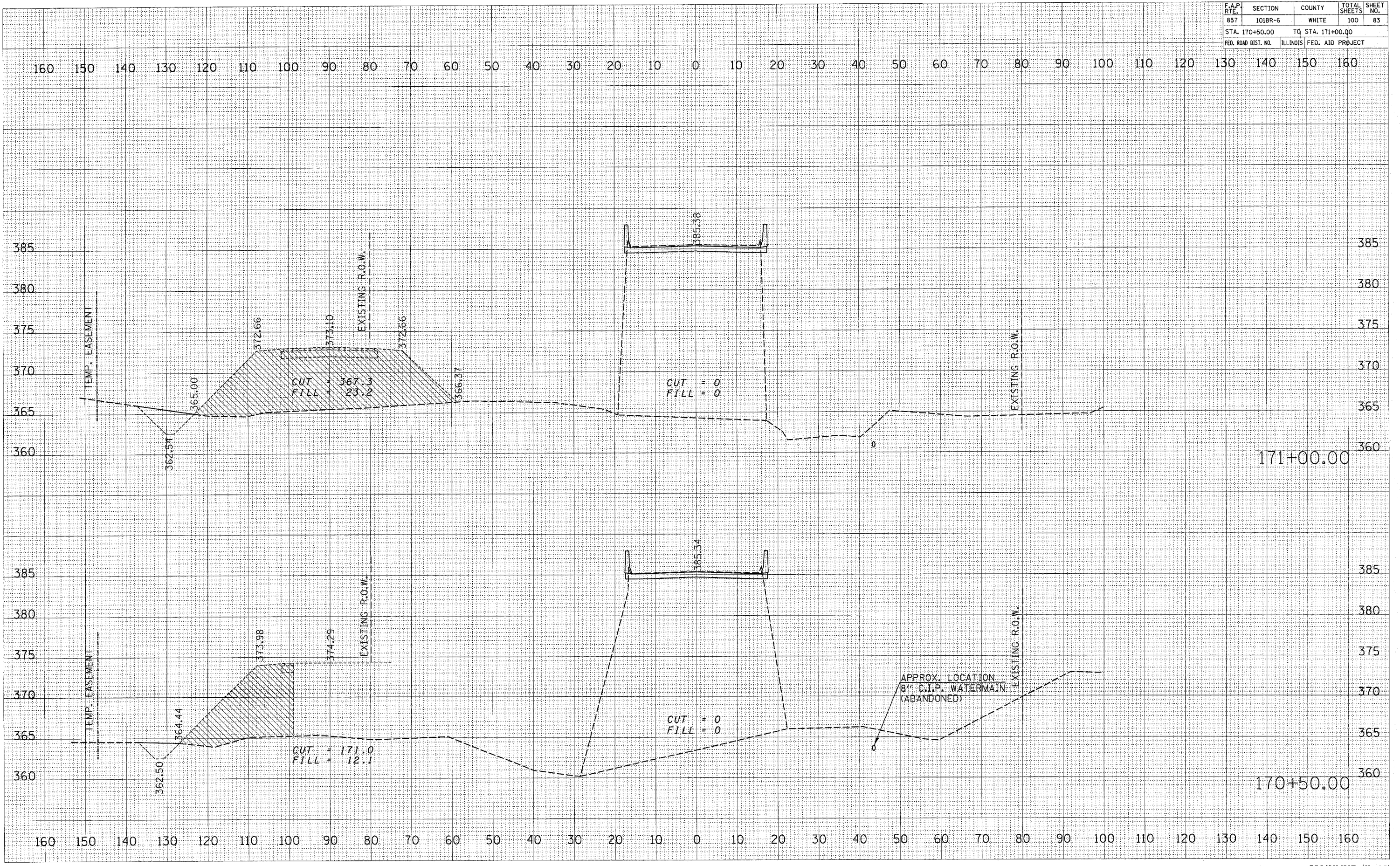


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	83
STA. 170+50.00		TO STA. 171+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMP. EASEMENT	
NO.		

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMP. EASEMENT	
NO.		

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

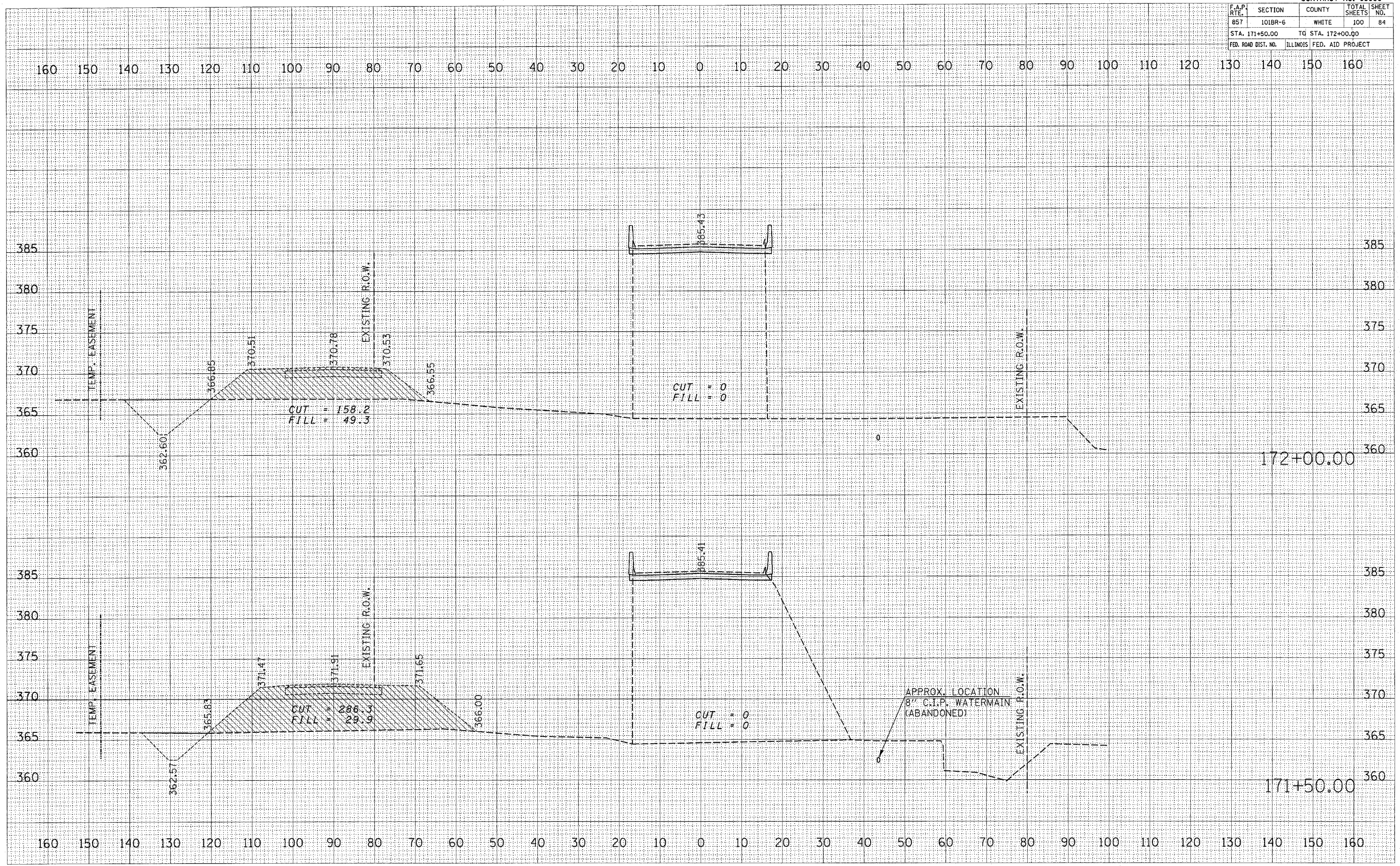


CONTRACT NO. 98960				
F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	84
STA. 171+50.00		TO STA. 172+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	DATE
BY	
REVISIONS	
NO.	

ORIGINAL SURVEY	DATE
BY	
REVISIONS	
NO.	

PLOT DATE = 04/01/88
 FILE NAME = 011418
 PLOT SCALE = 1"=40'
 USER NAME = MURPHY

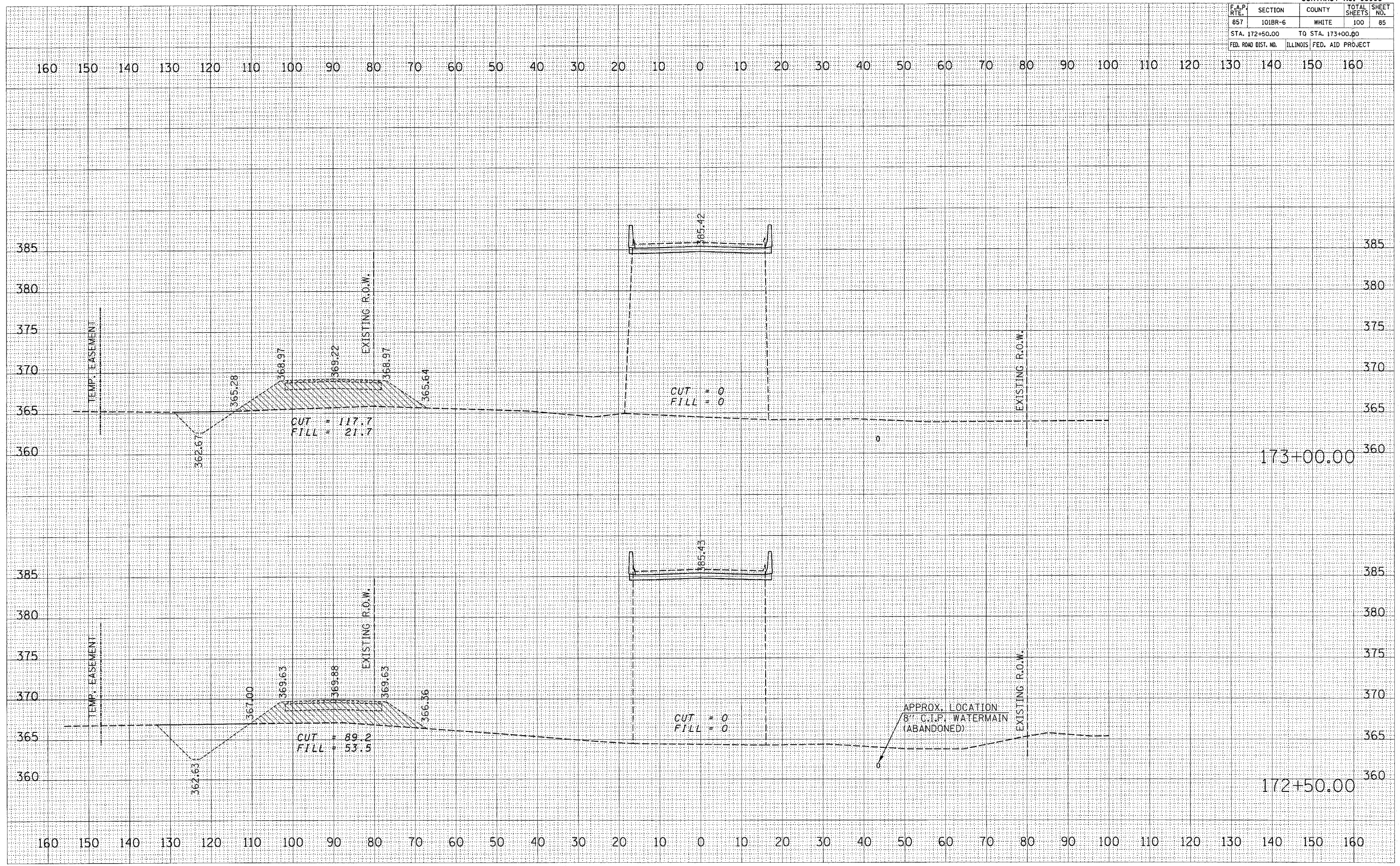


CONTRACT NO. 98960				
F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	85
STA. 172+50.00		TO STA. 173+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

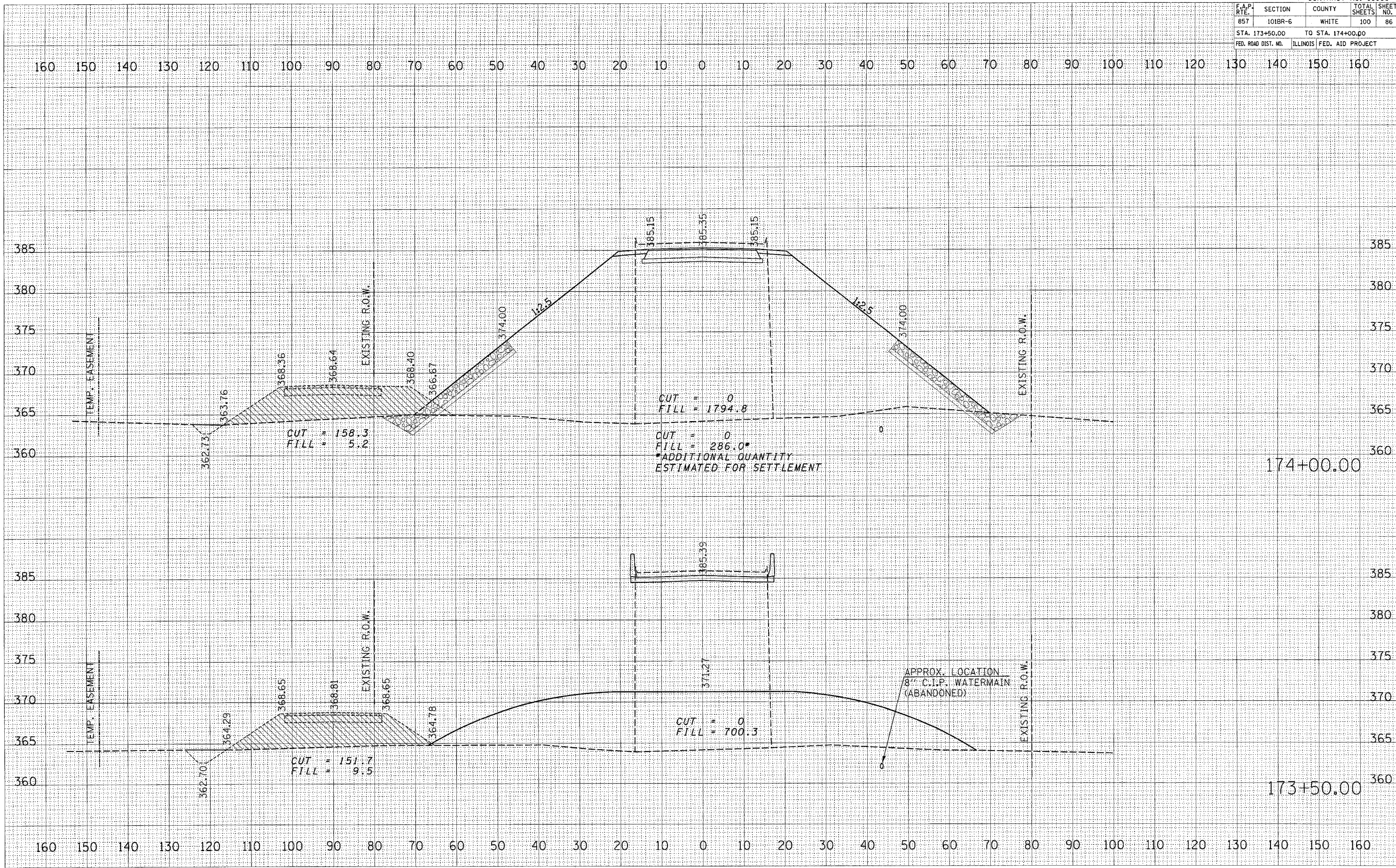


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	86
STA. 173+50.00		TO STA. 174+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 * * * DATE *
 FILE NAME * * * FILE *
 USER NAME * * * USER *

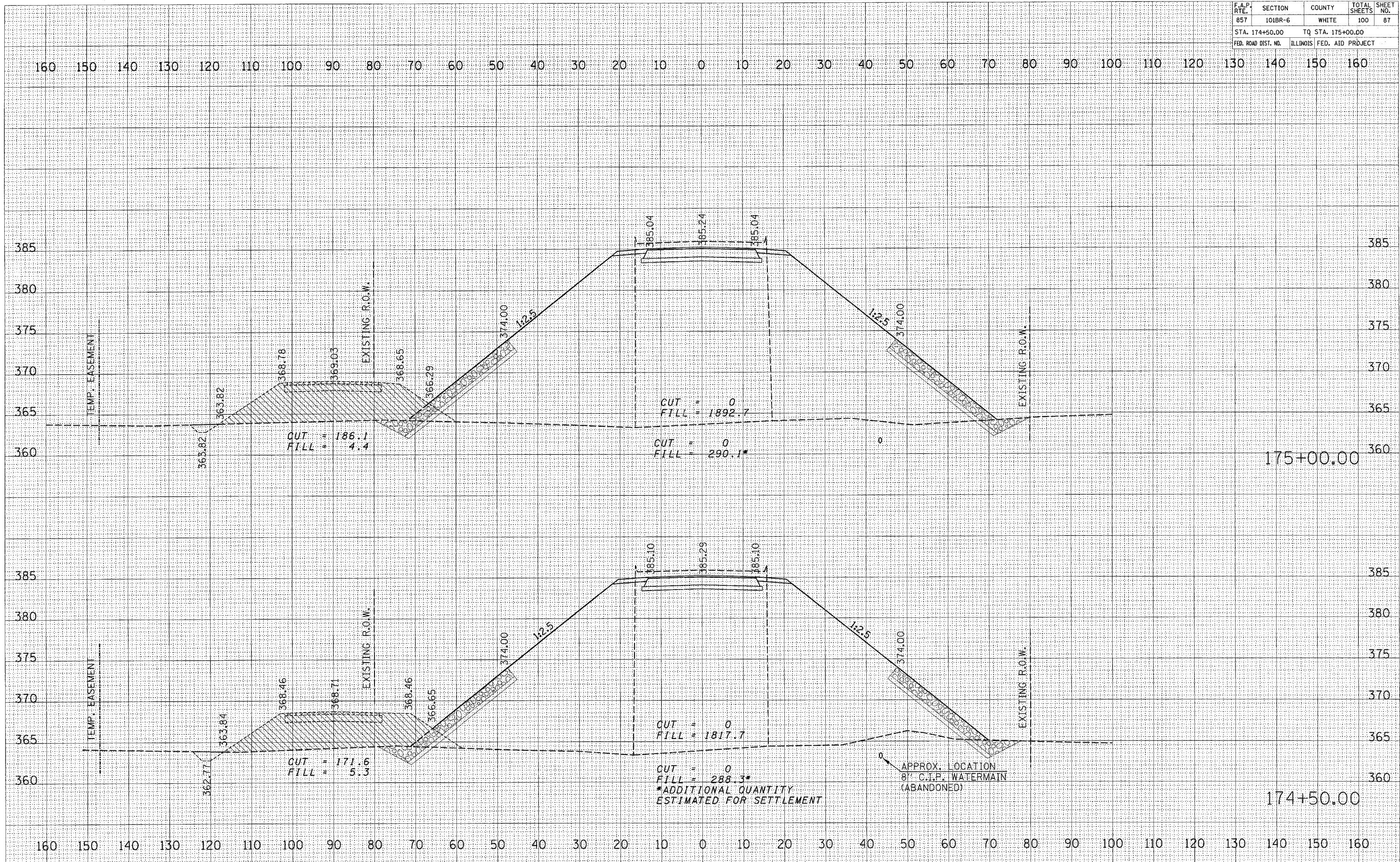


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	87
STA. 174+50.00		TQ STA. 175+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

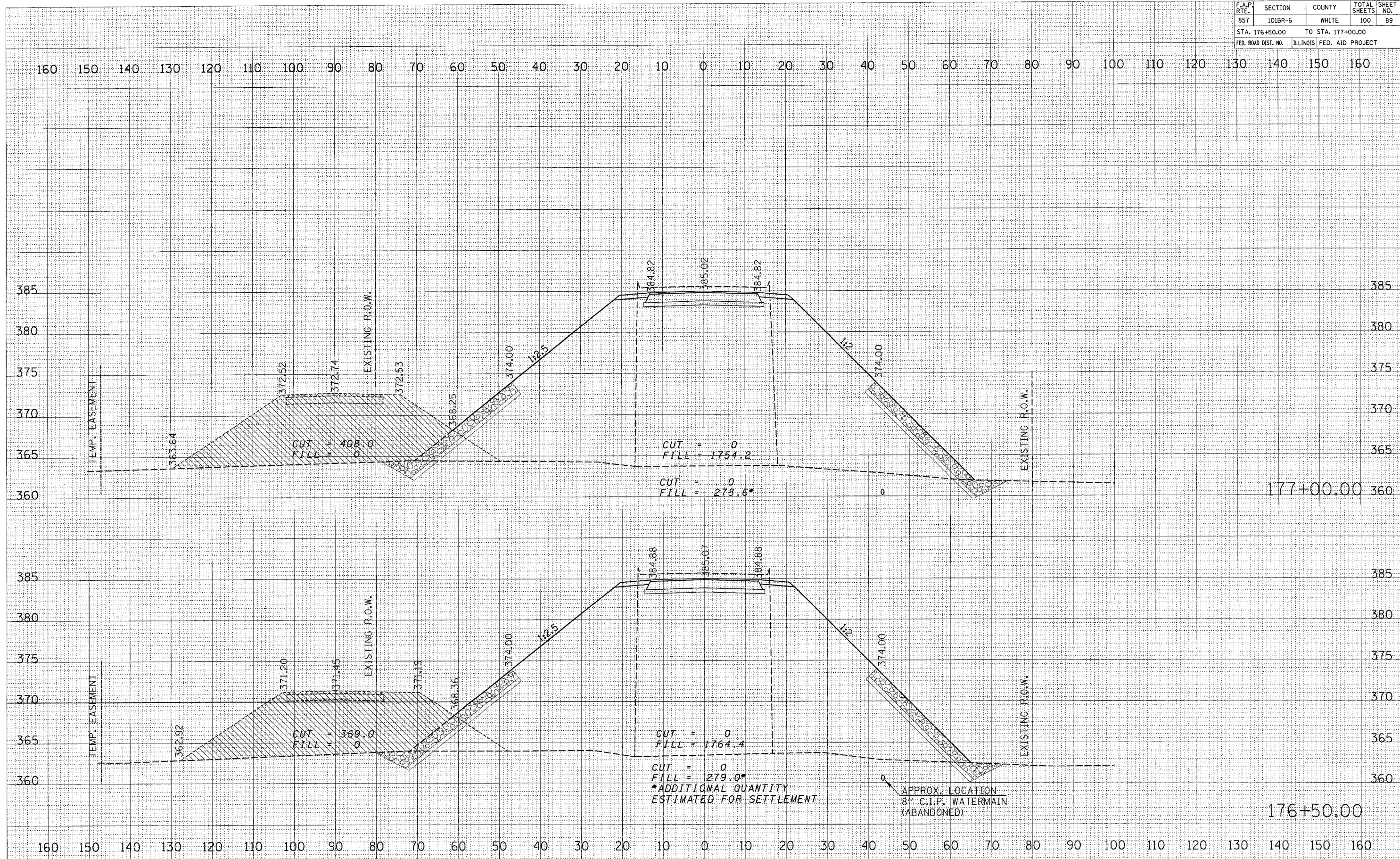
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	

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

PLOT DATE = DATE*
 FILE NAME = #FILE*
 PLOT SCALE = #SCALE*
 USER NAME = #USER*



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	89
STA. 176+50.00 TO STA. 177+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DATE	BY

DATE	BY

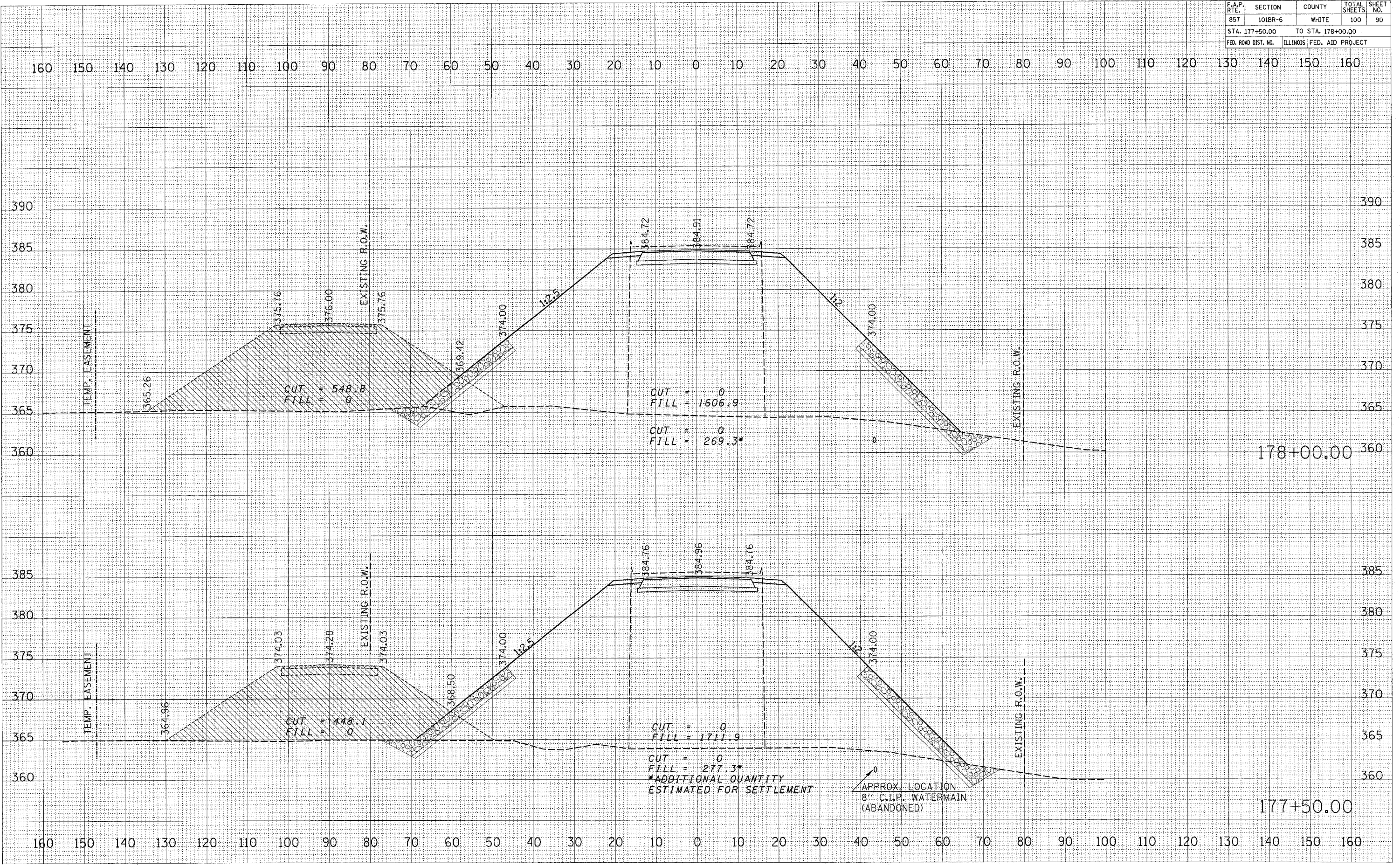
PLOT DATE * DATE *
 FILE NAME * FILE.LS *
 PLOT SCALE * SCALE *
 USER NAME * USER *

CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	90
STA. 177+50.00		TO STA. 178+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

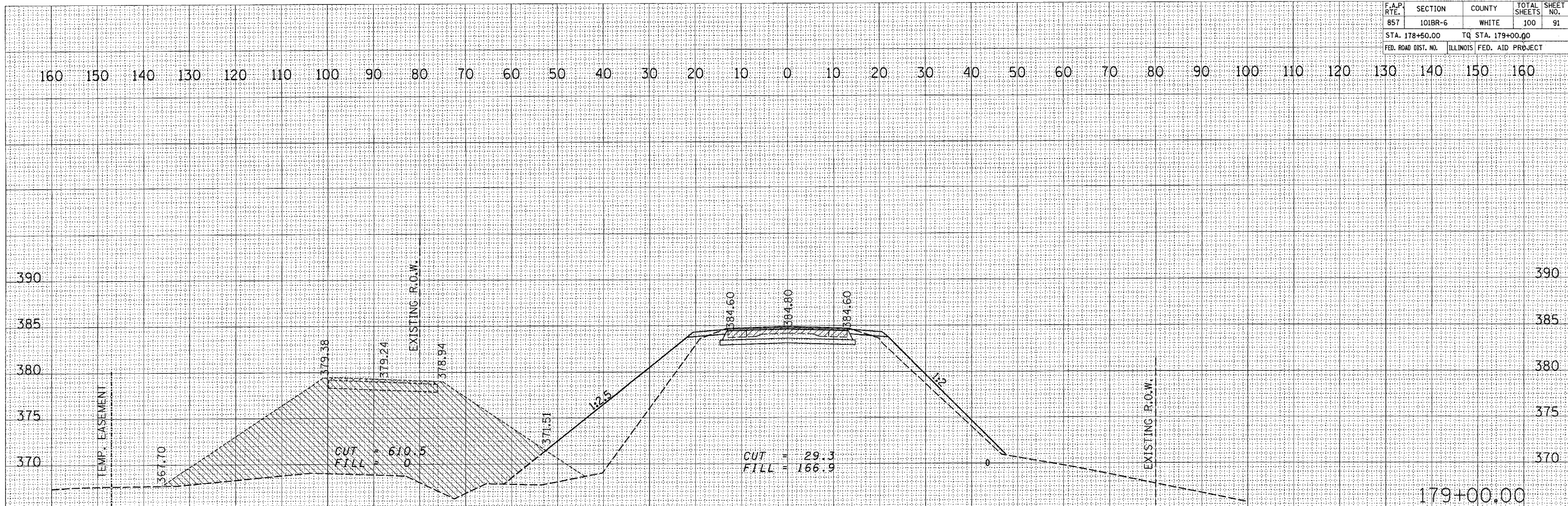
DATE	
BY	
FINAL SURVEY	
PLANNED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLANNED	
NOTE BOOK	
AREAS CHECKED	
NO.	

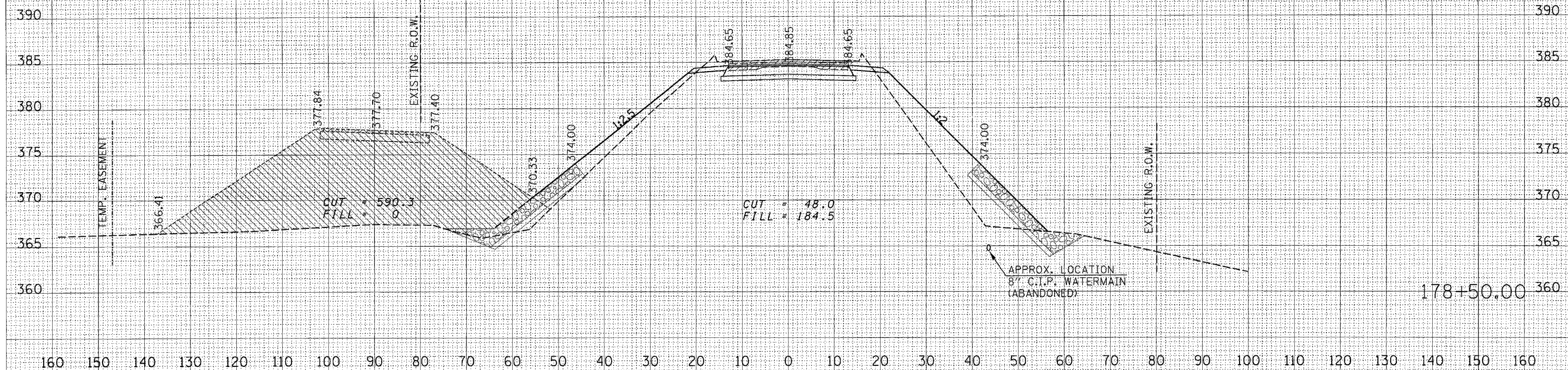
PLOT DATE = *DATE*
 FILE NAME = *FILE*
 PLOT SCALE = *SCALE*
 USER NAME = *USER*



BY _____ DATE _____	
FINISH SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	MAP/PLATE
	AREAS CHECKED

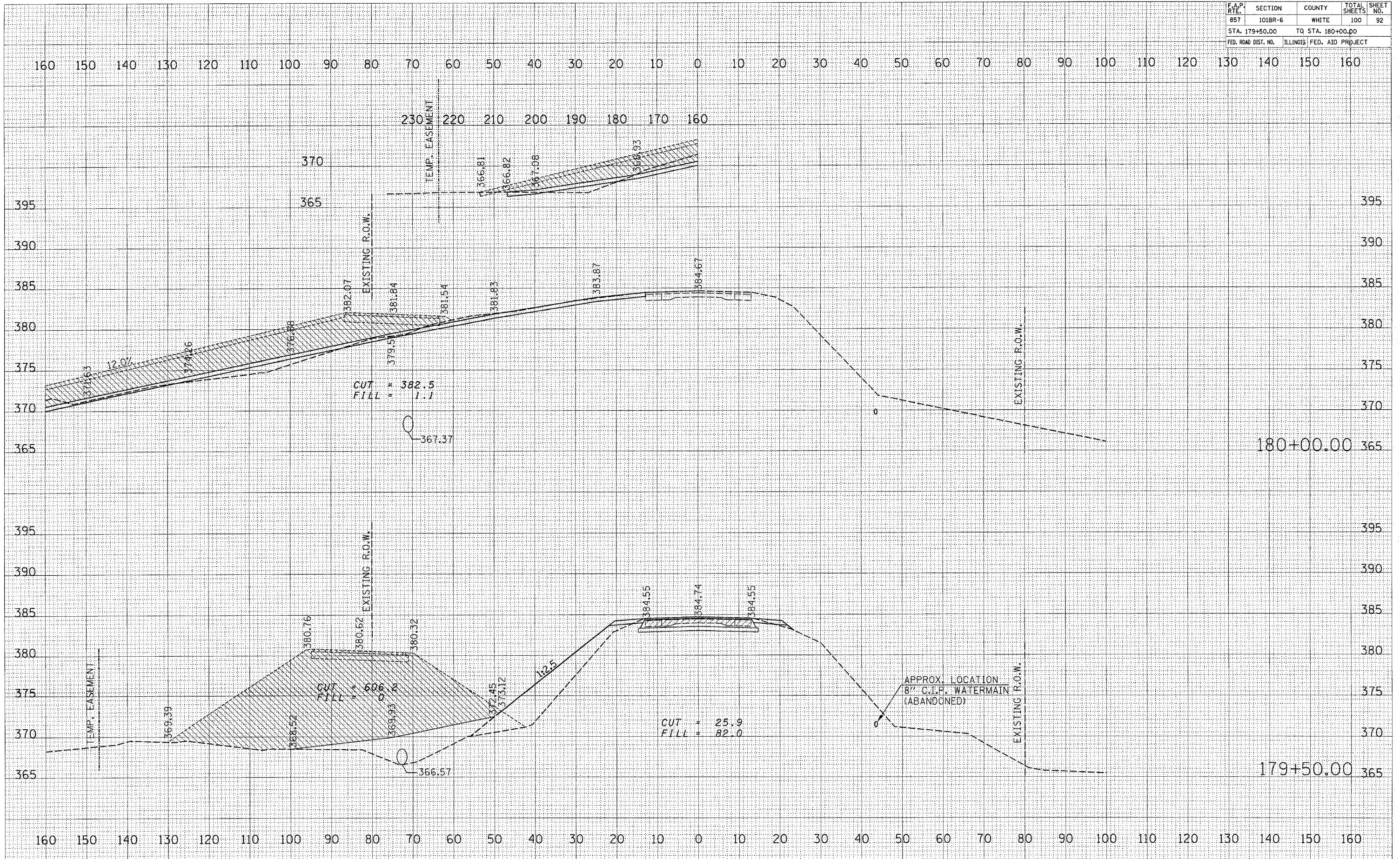


BY _____ DATE _____	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	MAP/PLATE
	AREAS CHECKED



PLOT DATE = #DATE*
PLOT SCALE = #SCALE*
USER NAME = #USER*
BY _____ DATE _____

CONTRACT NO. 98960			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
857	101BR-6	WHITE	100 92
STA. 179+50.00		TO STA. 180+00.00	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

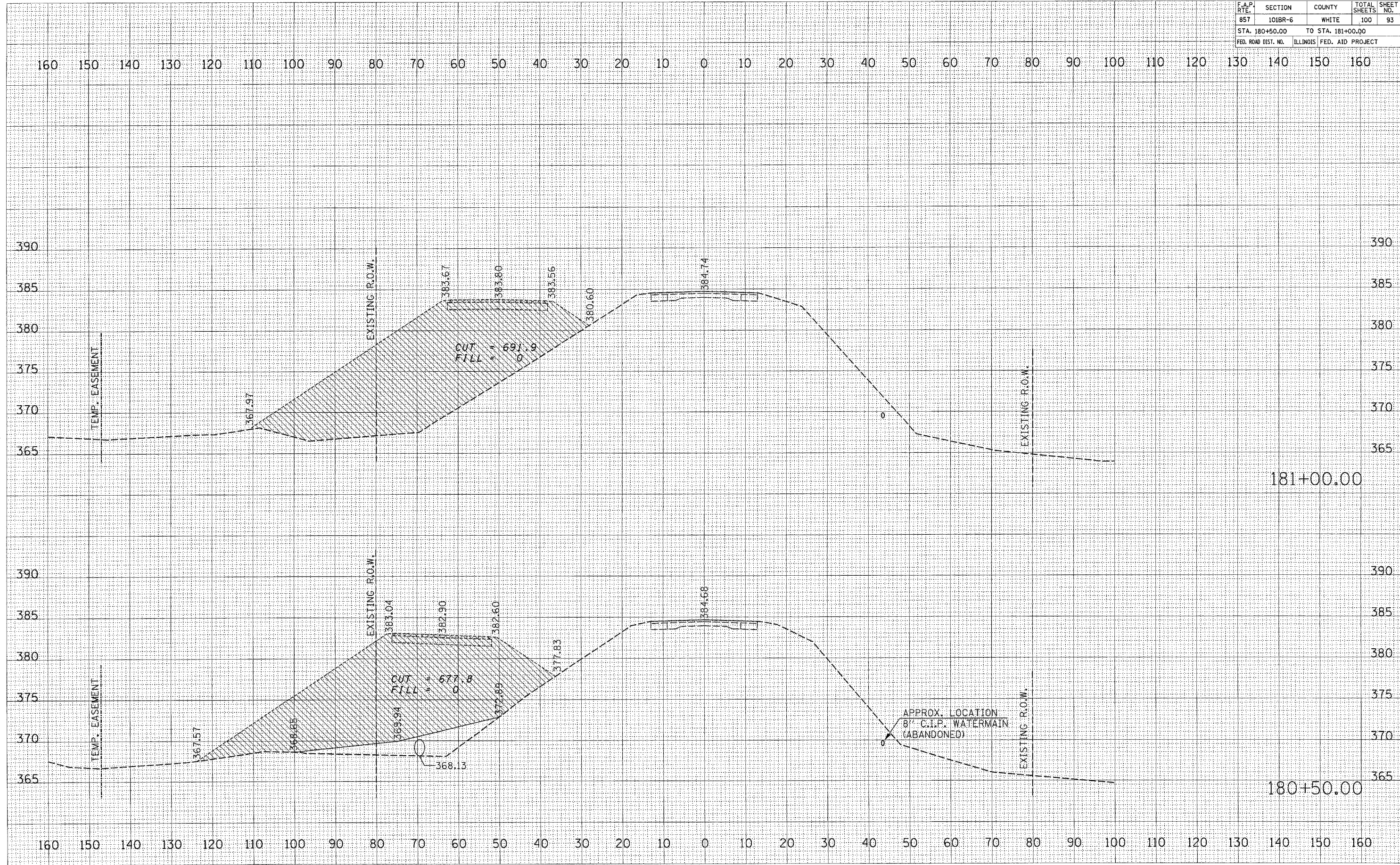


FINAL SURVEY PLOTTED DATE AREAS CHECKED

ORIGINAL SURVEY PLOTTED DATE AREAS CHECKED

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	93
STA. 180+50.00		TO STA. 181+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

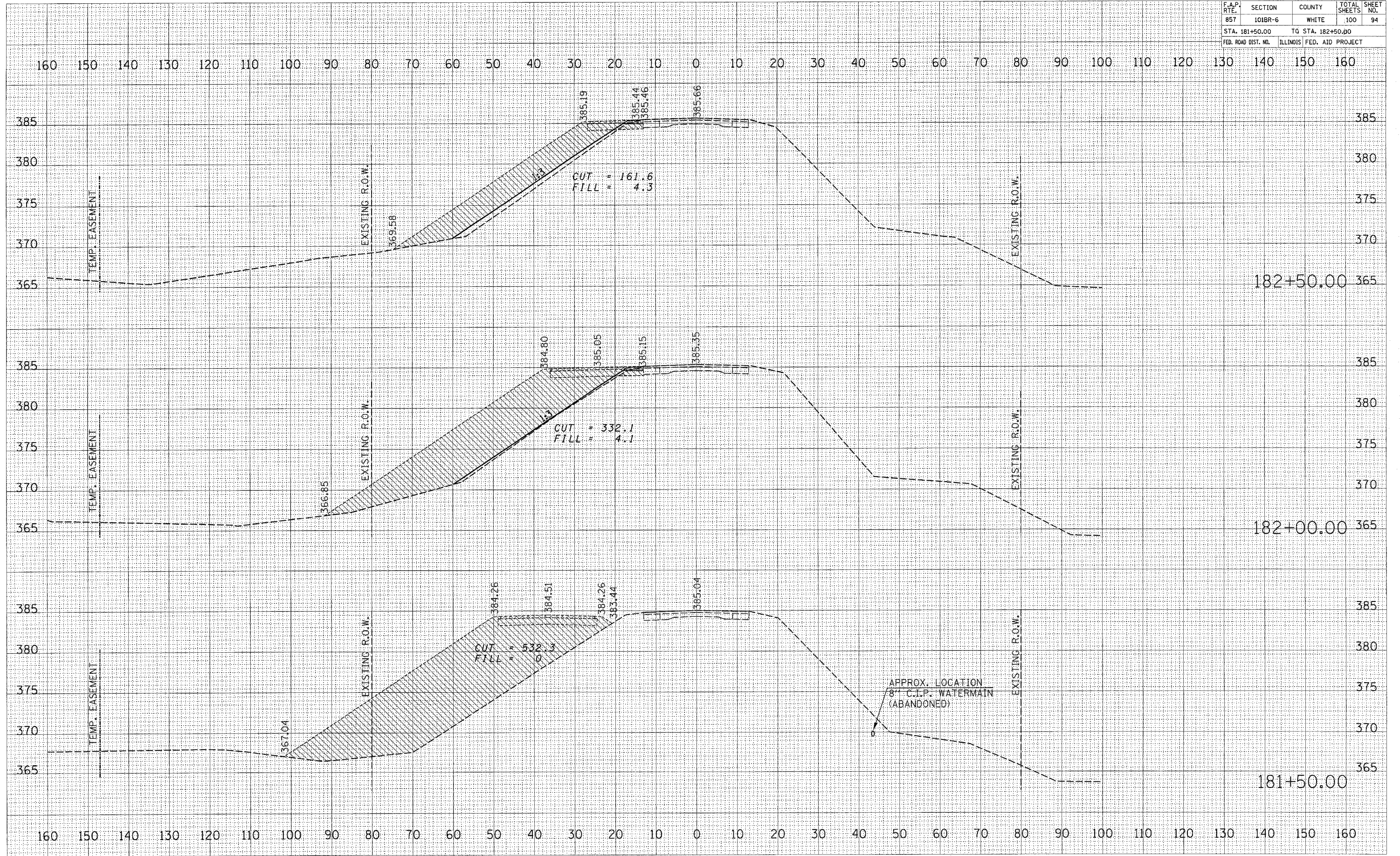


FINAL	DATE
SURVEY	BY
NOTE BOOK	
AREAS CHECKED	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
AREAS CHECKED	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

CONTRACT NO. 98960			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
857	101BR-6	WHITE	100
STA. 181+50.00		TO STA. 182+50.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



DATE: _____ BY: _____

REVIEWED: _____

DESIGNED: _____

PLANNED: _____

NOTED: _____

AREAS CHECKED: _____

DATE: _____ BY: _____

REVIEWED: _____

DESIGNED: _____

PLANNED: _____

NOTED: _____

AREAS CHECKED: _____

PLOT DATE = #DATE#

FILE NAME = #FILE#

PLOT SCALE = #SCALE#

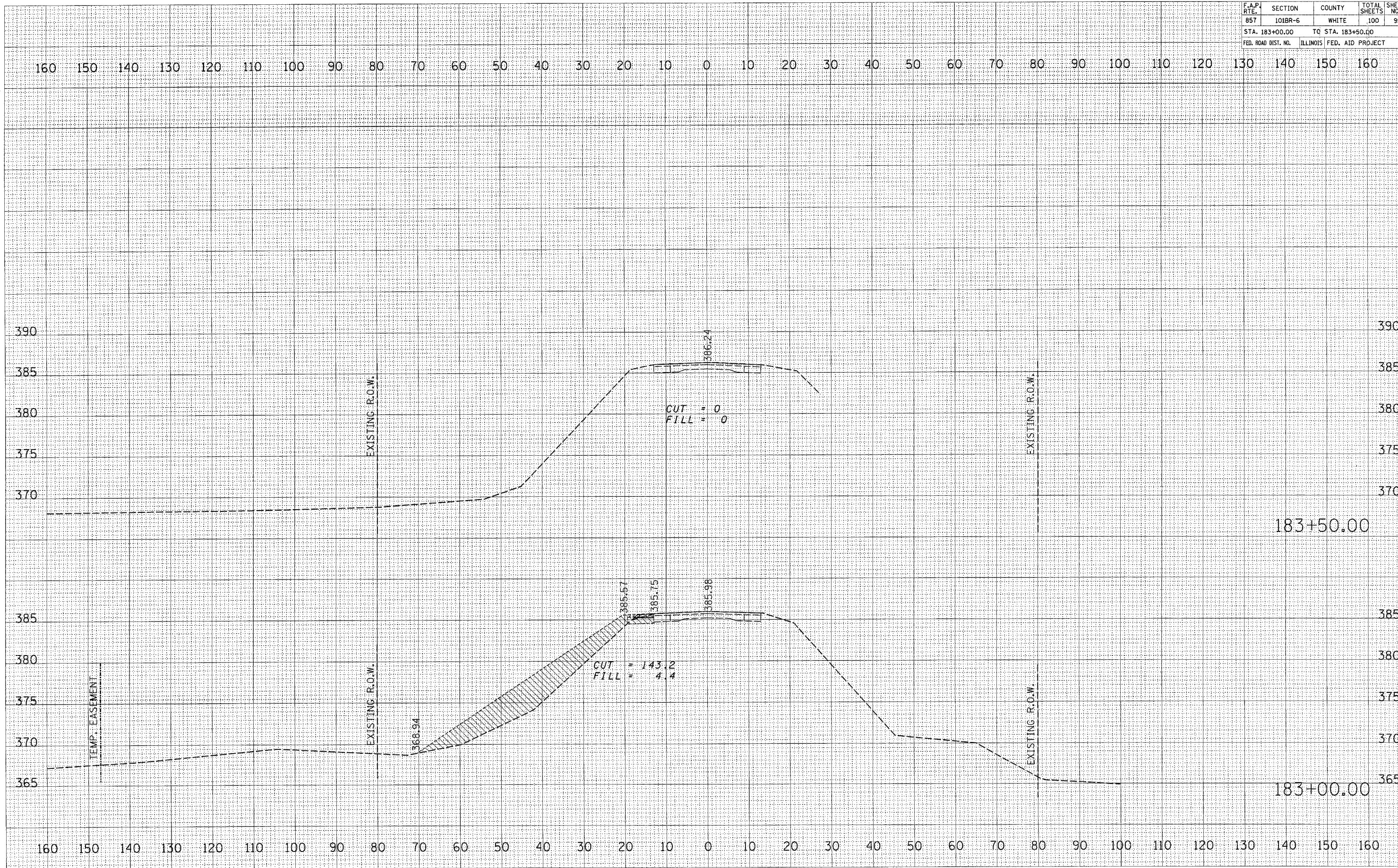
USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	95
STA. 183+00.00		TO STA. 183+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

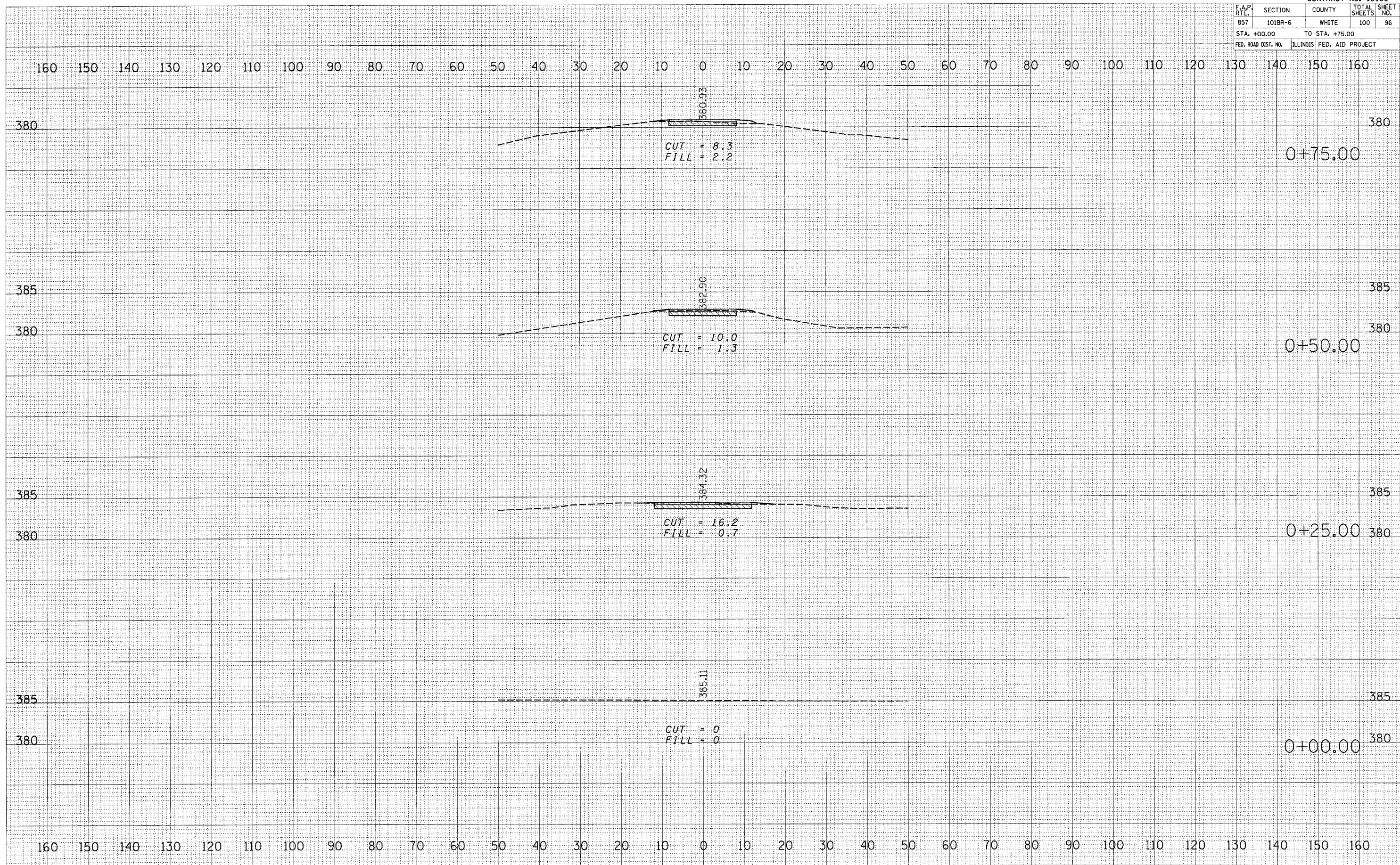
DATE	
BY	
NO.	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	APPROVED

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
USER NAME = #USER#



CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	96
STA. +00.00		TO STA. +75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY NO.	DATE
COMPILED BY	BY
NOTED BY	DATE
PLOTTED BY	
TEMPLATE NO.	
REVISIONS	
CHECKED BY	

ORIGINAL SURVEY NO.	DATE
COMPILED BY	BY
NOTED BY	DATE
PLOTTED BY	
TEMPLATE NO.	
REVISIONS	
CHECKED BY	

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

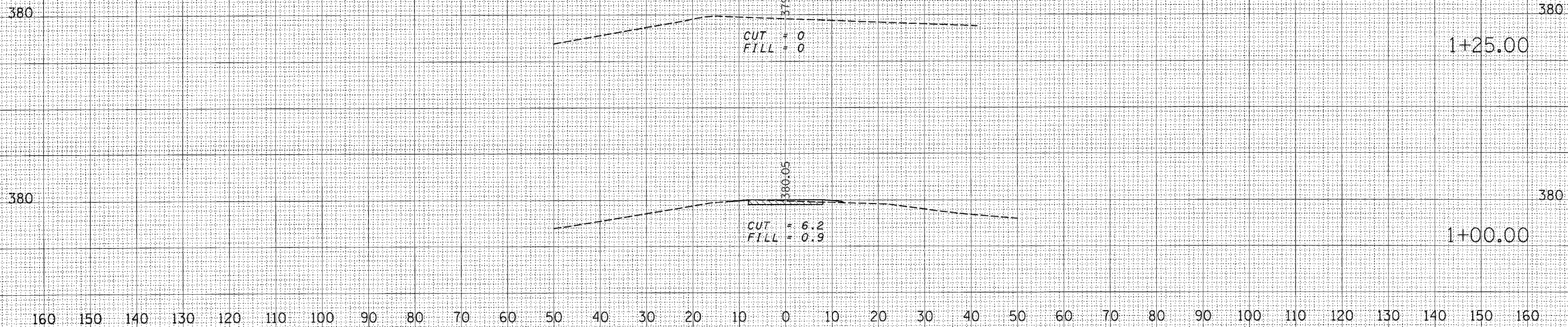
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	97
STA. 1+00.00		TO STA. 1+25.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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

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

PLOT DATE * DATE *
 FILE NAME * FILE *
 PLOT SCALE * SCALE *
 USER NAME * USER *

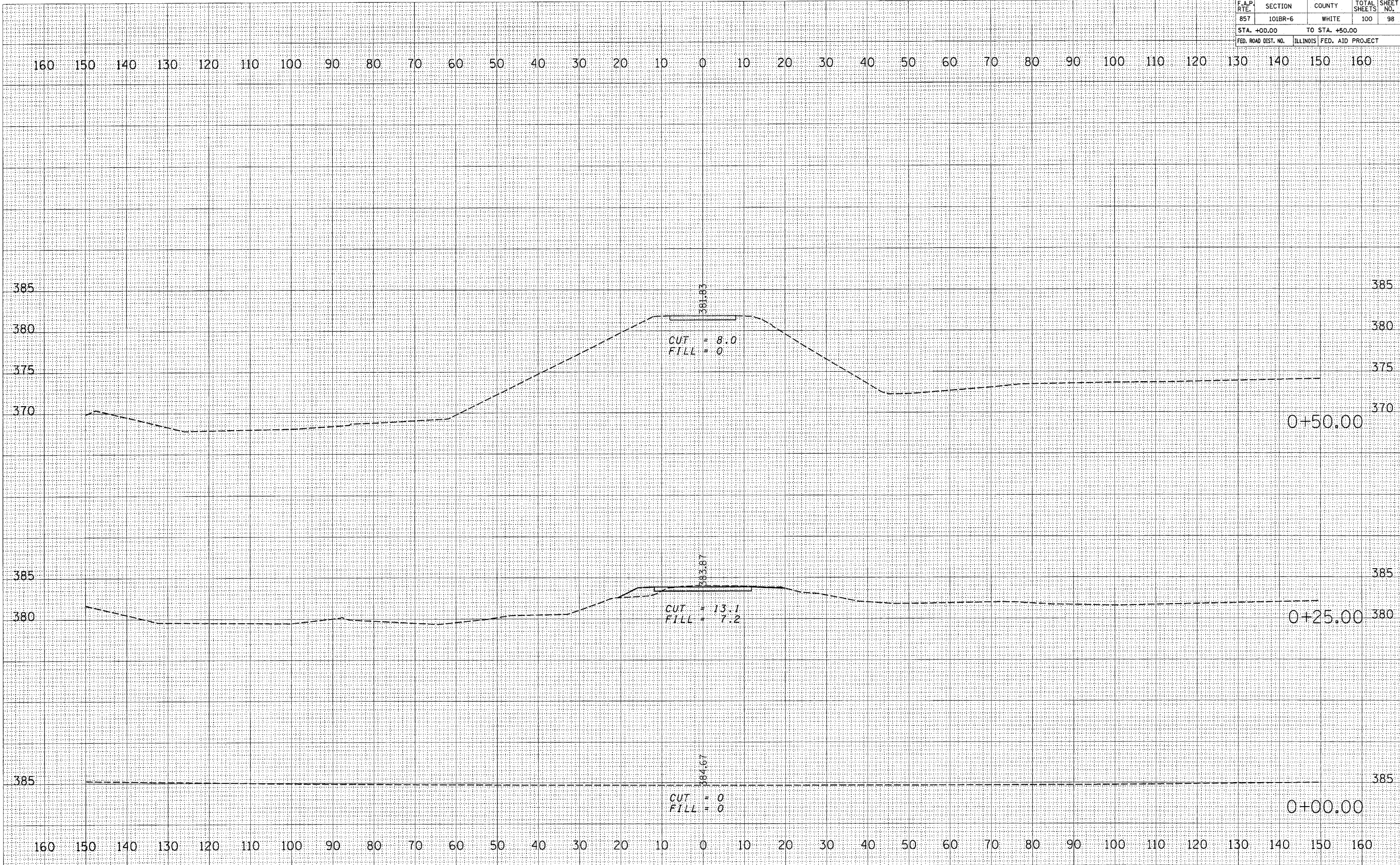


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	98
STA. +00.00		TO STA. +50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

DATE _____
SCALE _____
USER NAME _____

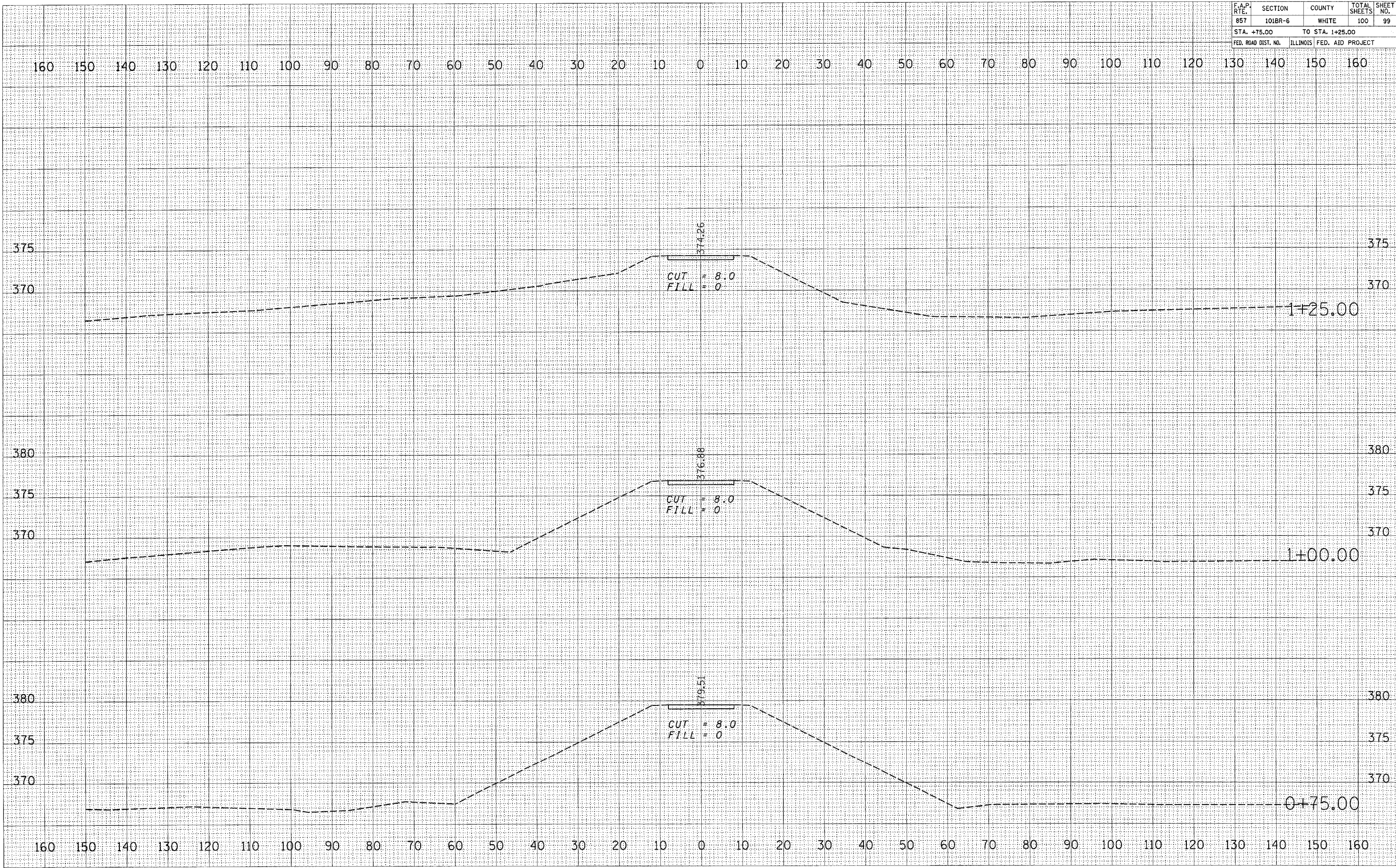


CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	99
STA. +75.00		TO STA. 1+25.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

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

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



CONTRACT NO. 98960				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	101BR-6	WHITE	100	100
STA. 1+50.00		TO STA. 2+25.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

