

STATE OF ILLINOIS
JO DAVIESS COUNTY
PLANS FOR PROPOSED
LOCAL AGENCY IMPROVEMENTS
FEDERAL-AID PROJECT
SECTION 09-00133-00-BR
SCOUT CAMP ROAD
FAS 73
PROJECT NO. BRS-0073 (105)
JOB NO. C-92-109-10
CONTRACT NO. 85514
2010

INDEX OF SHEETS

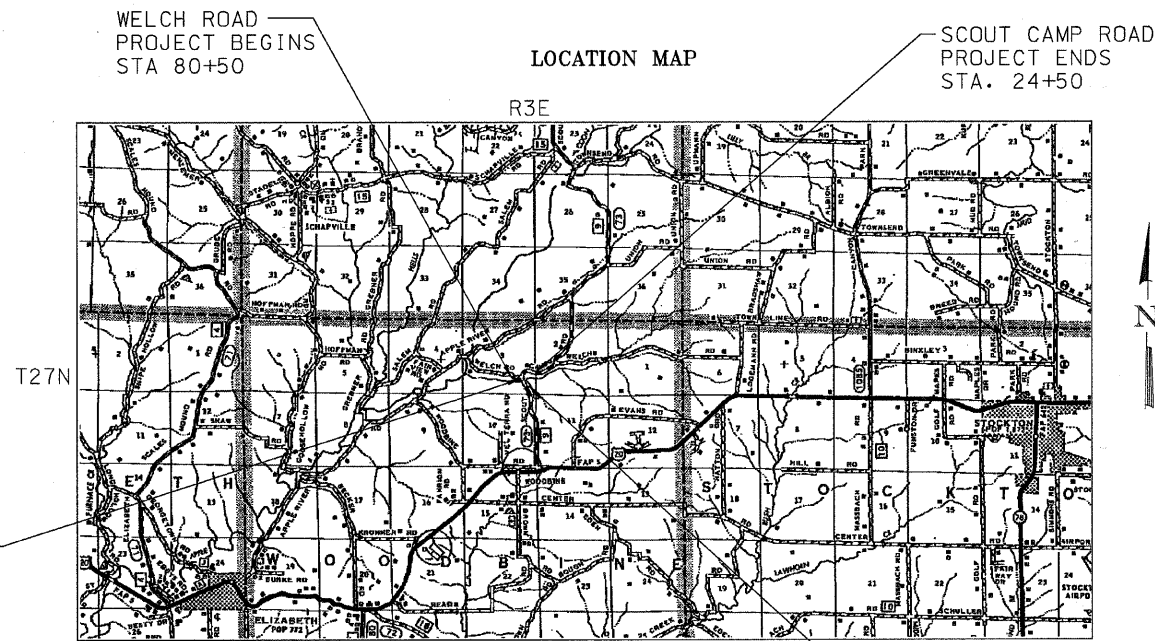
1	COVER SHEET AND INDEX OF SHEETS
2	SUMMARY OF QUANTITIES
3-6	TYPICAL SECTIONS, GENERAL NOTES, AND CONTROL POINTS
7-10	SCHEDULES OF QUANTITIES
11-13	PLAN AND PROFILE - SCOUT CAMP ROAD
14	PLAN AND PROFILE - WELCH ROAD
15	INTERSECTION DETAILS; ROAD CLOSURE PLAN
16-20	STORM WATER POLLUTION PREVENTION PLAN
21-32	STRUCTURAL DETAILS
33-45	CROSS SECTIONS - SCOUT CAMP ROAD
46-47	CROSS SECTIONS - WELCH ROAD
48	40.1 TYPICAL APPLICATION FOR ROAD CLOSURE

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-06	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
665001-02	WOVEN WIRE FENCE
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

NAME AND ADDRESS OF UTILITIES	TYPE
VERIZON ATTN: PAULO JAVIER 2239 NEWBURG ROAD BELVIDERE, IL 61008 815-547-0395	TELEPHONE

WELCH ROAD
PROJECT ENDS
STA 83+39

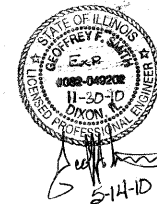
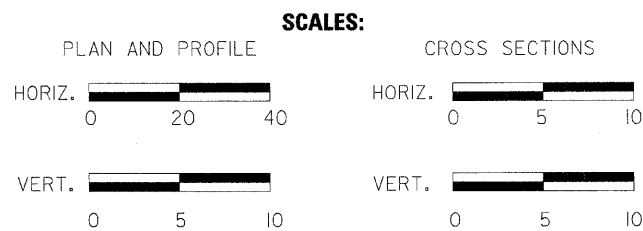


PROPOSED STRUCTURE
S.N. 043-3276 STA.
13+18.37 TO 14+01.63

PROJECT LENGTH
S. SCOUT CAMP ROAD = 1,400' = 0.27 MILES
WELCH ROAD = 289' = 0.06 MILES
NET LENGTH = 1,689' = 0.33 MILES

DESIGN CRITERIA				
FUNCTIONAL CLASSIFICATION	HIGHWAY	ADT (2030)	% TRUCKS	DESIGN SPEED
MINOR COLLECTOR	SCOUT CAMP ROAD	287	3%	30 MPH
LOCAL	WELCH ROAD	123	3%	30 MPH

CLOSED ROAD ADT = 10



5-14-10

JO DAVIESS COUNTY	
APPROVED	5/27/2010 DATE <i>[Signature]</i> COUNTY ENGINEER
PASSED	July 6, 2010 DATE <i>[Signature]</i> DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	July 6, 2010 DATE <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



WILLETT, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture

809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-000918
www.willetthofmann.com

CONSTRUCTION TYPE CODE: X081-2A

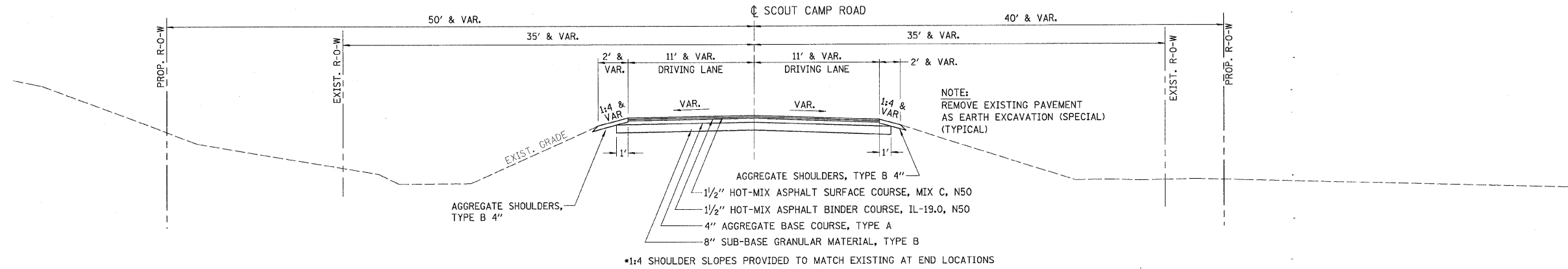
ITEM NO.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	195
2	20100500	TREE REMOVAL, ACRES	ACRE	0.27
3	X2020 410*	EARTH EXCAVATION (SPECIAL)	CU YD	4,720
4	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	472
5	20300100	CHANNEL EXCAVATION	CU YD	551
6	20700220*	POROUS GRANULAR EMBANKMENT	CU YD	62
7	20800150	TRENCH BACKFILL	CU YD	33
8	X2501000*	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.66
9	25100630	EROSION CONTROL BLANKET	SQ YD	8,034
10	28000250*	TEMPORARY EROSION CONTROL SEEDING	POUND	166
11	28000305*	TEMPORARY DITCH CHECKS	FOOT	20
12	28000400	PERIMETER EROSION BARRIER	FOOT	1,739
13	28000500	INLET AND PIPE PROTECTION	EACH	2
14	28100109	STONE RIPRAP, CLASS A5	SQ YD	1,247
15	28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	15
16	28200200	FILTER FABRIC	SQ YD	1,066
17	31101000*	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	1,909
18	35100100*	AGGREGATE BASE COURSE, TYPE A	TON	873
19	35101400	AGGREGATE BASE COURSE, TYPE B	TON	67
20	40600100*	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,954
21	40600300*	AGGREGATE (PRIME COAT)	TON	5.8
22	40603000	HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50	TON	332
23	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	332
24	40800050*	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	9
25	48101498*	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	1,413
26	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
27	50200100	STRUCTURE EXCAVATION	CU YD	85

ITEM NO.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
28	50300225	CONCRETE STRUCTURES	CU YD	57.6
29	50300260	BRIDGE DECK GROOVING	SQ YD	309
30	50300280	CONCRETE ENCASEMENT	CU YD	4.2
31	50300300	PROTECTIVE COAT	SQ YD	327
32	50400705*	PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	SQ FT	2,922
33	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12,520
34 Δ	50901050	STEEL RAILING, TYPE SM	FOOT	167
35	51201610	FURNISHING STEEL PILES HP12x63	FOOT	260
36	51202305*	DRIVING PILES	FOOT	260
37	51203610	TEST PILE STEEL HP 12x63	EACH	2
38	51500100	NAME PLATES	EACH	1
39	542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	45
40	542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	55
41	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
42	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
43 Δ	63100087*	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
44 Δ	63100167*	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
45 Δ	66503200*	BARBED WIRE FENCE, FIVE STRAND	FOOT	3,144
46	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1
47	67100100	MOBILIZATION	L SUM	1
48	70101700*	TRAFFIC CONTROL AND PROTECTION	L SUM	1
49 Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,613
50 Δ	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	9
51 Δ	78200410*	GUARDRAIL MARKERS, TYPE A	EACH	8
52 Δ	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
53	X5030305*	CONCRETE WEARING SURFACE, 5"	SQ YD	324.7
54	XX004565*	GROUTED RIPRAP	SQ YD	71.0
55	Z0005400*	BREAKER-RUN CRUSHED STONE	TON	968

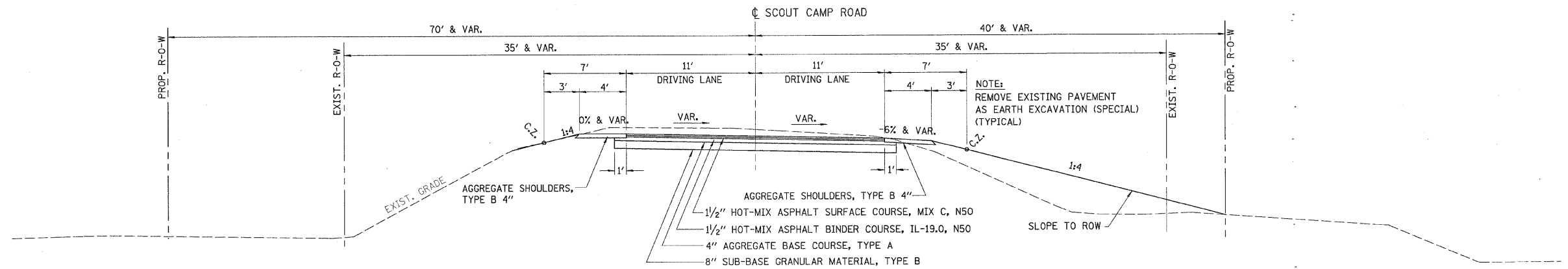
* INDICATES SPECIAL PROVISION, GENERAL NOTE, OR DETAIL
 Δ SPECIALTY ITEMS

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REV.	DATE	BY	REMARKS	DRAWN	<p align="center">JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS</p>	 <p>WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS Land Surveying - Transportation - Structural Environmental - Architecture 809 East Second Street Dixon, Illinois 61021 Phone 815.284.3381 Fax 815.284.3385 Design Firm #184-000918 www.willett-hofmann.com</p>	<p>F.A.S. 73</p> <p>FED. AID PROJECT -</p> <p>FED. ROAD DIST. NO. 7 ILLINOIS</p>	SUMMARY OF QUANTITIES			
				SECTION				COUNTY	TOTAL SHEETS	SHEET NO.	
				09-00133-00-BR				JO DAVIESS	48	2	
				APPROVED				STA.	STA.	WHA PROJECT: 1169D09	DATE: XX/XX/XXXX



SCOUT CAMP ROAD
 STA. 10+50 TO STA. 10+62.14
 AND
 STA. 24+35 TO STA. 24+50



SCOUT CAMP ROAD
 STA. 10+62.14 TO STA. 11+84.73
 AND
 STA. 23+32.27 TO STA. 24+35.00

PAVEMENT MIXTURE REQUIREMENTS

	CONSTRUCTION
PG:	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 12.5 or 9.5
FRICTION AGGREGATE	C

**PAVEMENT STRUCTURAL DESIGN
 SCOUT CAMP ROAD**

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2020
 CLASS IV STREET
 80,000* TRUCK DESIGN

P.V. 208
 S.U. 21
 M.U. 7 } 236 ADT

E_{RI} : (ASSUMED) 2 ksi
 TF = 0.05
 HMA MIX TEMP. 72°F
 HMA E_{AC} = 775 ksi
 HMA DESIGN STRAIN 370 microstrain

USE
 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50
 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
 12" AGGREGATE BASE

**PAVEMENT STRUCTURAL DESIGN
 WELCH ROAD**

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2020
 CLASS IV STREET
 80,000* TRUCK DESIGN

P.V. 89
 S.U. 9
 M.U. 3 } 101 ADT

E_{RI} : (ASSUMED) 2 ksi
 TF = 0.02
 HMA MIX TEMP. 72°F
 HMA E_{AC} = 775 ksi
 HMA DESIGN STRAIN 370 microstrain

USE
 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50
 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
 12" AGGREGATE BASE

REV.	DATE	BY	REMARKS	DRAWN
				X.X.X.
				CHECKED
				X.X.X.
				APPROVED
				X.X.X.

**JO DAVIESS COUNTY
 SCOUT CAMP ROAD AND
 WELCH ROAD IMPROVEMENTS**

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 HOFMANN &
 ASSOCIATES, INC.**
 CONSULTING ENGINEERS

Land Surveying - Transportation - Structural
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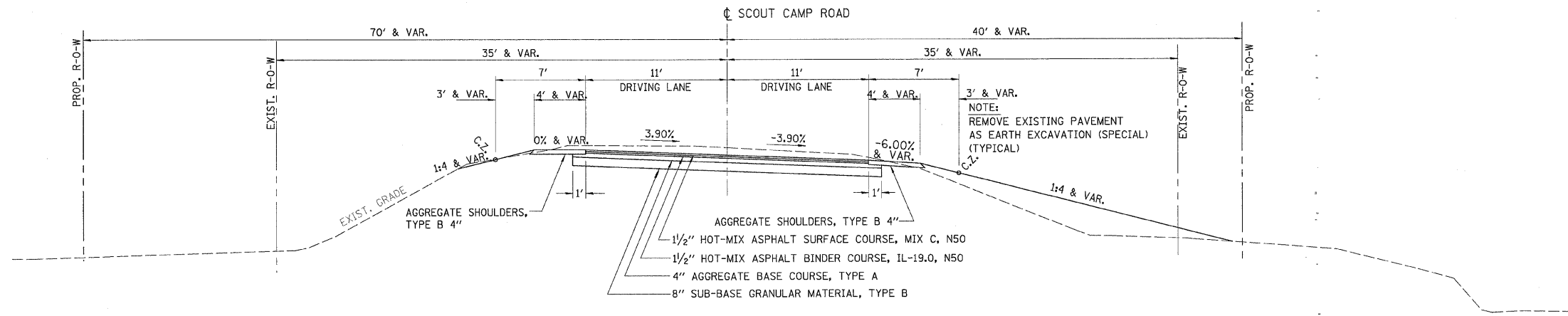
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F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**TYPICAL SECTIONS, GENERAL NOTES,
 AND CONTROL POINTS**

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	3
STA. - STA.			
WHA PROJECT: 1169009	DATE: XX/XX/XXXX		

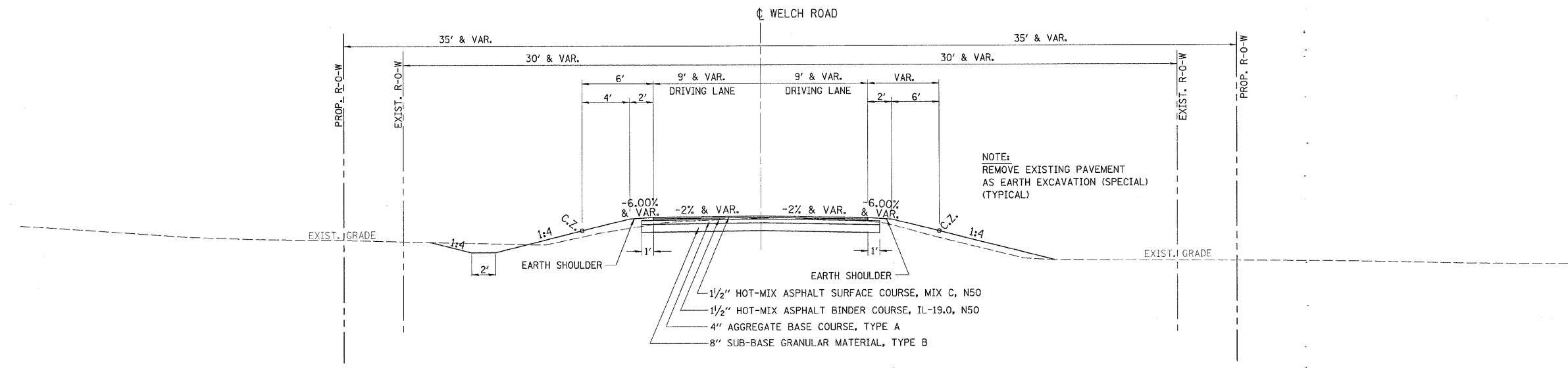
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SCOUT CAMP ROAD
STA. 11+84.73 TO STA. 23+32.27
 (FULL SUPER)

SCOUT CAMP ROAD SUPERELEVATION RATES			
STATION	LEFT SUPER	RIGHT SUPER	REMARKS
10+79.73	-2.00%	-2.00%	NORMAL CROWN
11+15.73	0%	-2.00%	
11+51.73	2.00%	-2.00%	FULL SUPER
11+84.73	3.90%	-3.90%	MAX SUPER
23+32.27	3.90%	-3.90%	MAX SUPER
23+65.27	2.00%	-2.00%	FULL SUPER
24+01.27	0%	-2.00%	
24+37.27	-2.00%	-2.00%	NORMAL CROWN

* PC 11+58.48
 * PT 23+58.52



WELCH ROAD
STA. 80+50.00 TO STA. 82+02.63

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				CHECKED
				X.X.X.
				APPROVED
				X.X.X.

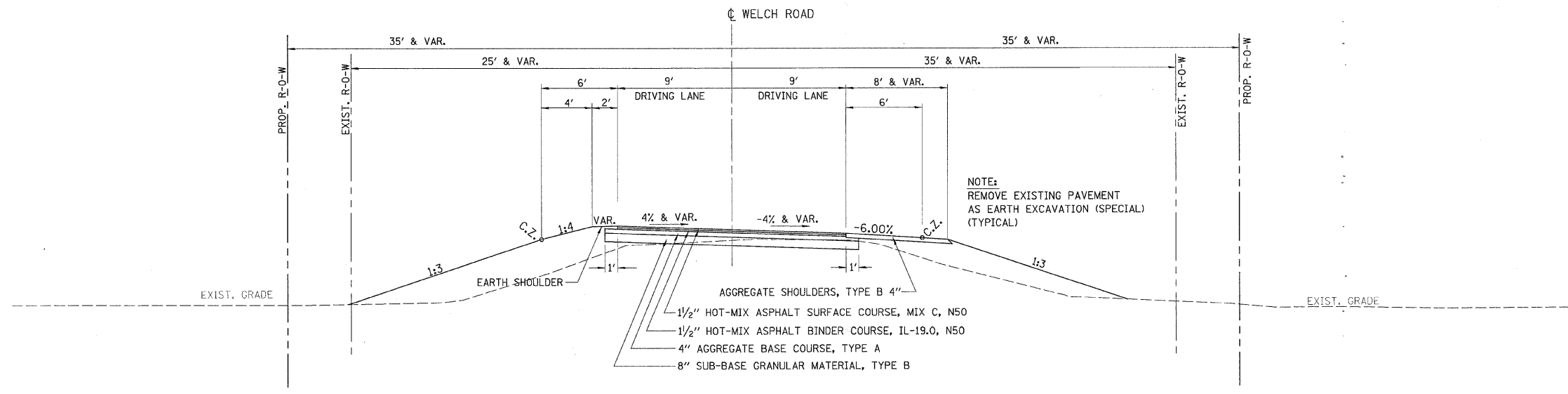
JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS



F.A.S. 73
 FED. AID PROJECT -
 FED. ROAD DIST. NO. 7 ILLINOIS

TYPICAL SECTIONS, GENERAL NOTES,
AND CONTROL POINTS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	4
STA. - STA.			
WHA PROJECT: 116909		DATE: XX/XX/XXXX	



WELCH ROAD SUPERELEVATION RATES			
STATION	LEFT SUPER	RIGHT SUPER	REMARKS
81+40.38	-2.00%	-2.00%	NORMAL CROWN
81+68.38	0%	-2.00%	
81+96.38	2.00%	-2.00%	FULL SUPER
82+23.38	4.00%	-4.00%	MAX SUPER
82+41.29	4.00%	-4.00%	MAX SUPER
82+68.29	2.00%	-2.00%	FULL SUPER
82+96.29	0%	-2.00%	
83+24.29	-2.00%	-2.00%	NORMAL CROWN

- * PC 82+02.63
- * PT 82+62.04

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

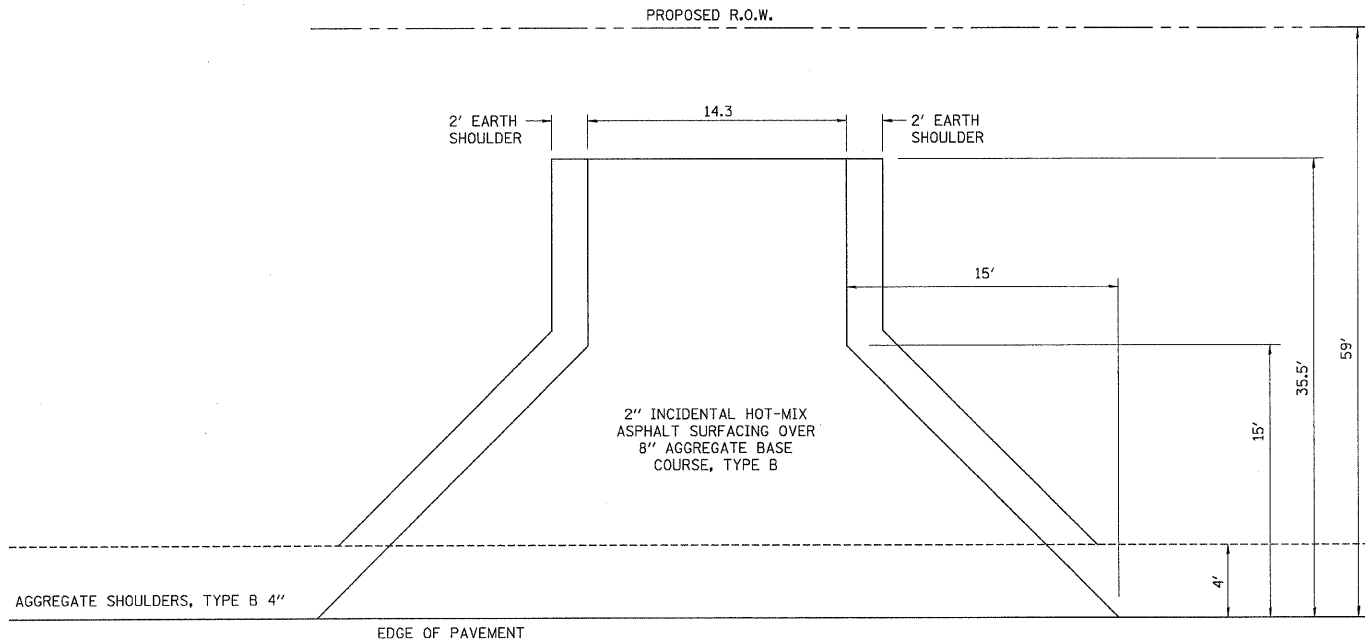
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FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**TYPICAL SECTIONS, GENERAL NOTES,
AND CONTROL POINTS**

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	5
STA. - STA.			
WHA PROJECT: 1169D09	DATE: XX/XX/XXXX		



SCOUT CAMP ROAD
PRIVATE ENTRANCE
STA. 22+50

HORIZONTAL CONTROL POINTS						
POINT #	ROAD	STATION	O/S	NORTH	EAST	DESCRIPTION
126	SCOUT CAMP	12+44	RT 3'	2073732.35	2302472.72	PK NAIL
128	SCOUT CAMP	13+13	LT 7'	2073795.99	2302443.53	PK NAIL
129	SCOUT CAMP	13+82	LT 10'	2073864.78	2302431.04	PK NAIL
3	SCOUT CAMP	14+52	RT 10"	2073935.35	2302451.28	BRASS DISK
125	SCOUT CAMP	14+56	LT 31'	2073942.45	2302410.36	PK NAIL
127	SCOUT CAMP	22+28	LT 13'	2074413.16	2302966.72	PIN
VERTICAL BENCH MARKS						
ELEV.	DESCRIPTION					
694.20	TOP OF MONUMENT #3 @ INT. OF SCOUT CAMP & WELCH					
690.46	RR SPIKE IN WOOD FENCE POST @ NW CORNER OF SCOUT CAMP & WELCH					
696.66	CHISELED "C" ON NW WINGWALL OF EXISTING STRUCTURE					
692.69	RR SPIKE IN WOOD GATE POST					

GENERAL NOTES

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS ENCOUNTERED, UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL REMOVE ALL STRUCTURES WITHIN THE EXISTING RIGHT OF WAY AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION (SPECIAL)

ALL TELEPHONE AND ELECTRIC POLES, GAS PIPES, ETC. IN THE WAY OF THE IMPROVEMENT SHALL BE MOVED BY THE UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOT BE INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL NOT BE UTILIZED UNTIL THE SUBGRADE HAS BEEN TREATED IN ACCORDANCE WITH SECTION 301 OF THE STANDARD SPECIFICATIONS AND THE RESULTING STABILITY DETERMINED INADEQUATE BY THE ENGINEER.

THE FINAL TOP 4" OF SOIL IN ANY AREA DISTURBED BY THE CONTRACTOR MUST BE ABLE TO SUPPORT VEGETATION AND APPROVED BY THE ENGINEER.

EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR. COST OF REMOVING AND RESETTING SHALL BE INCIDENTAL TO EARTH EXCAVATION (SPECIAL).

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT OF EARTH EXCAVATION (SPECIAL).

ALL REMOVAL OF EXISTING GUARDRAIL TO BE CONSIDERED AS INCIDENTAL TO REMOVAL OF EXISTING STRUCTURES.

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REV.	DATE	BY	REMARKS	DRAWN	<p>JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS</p>		<p>F.A.S. 73</p> <p>FED. AID PROJECT -</p> <p>FED. ROAD DIST. NO. 7 ILLINOIS</p>	<p>TYPICAL SECTIONS, GENERAL NOTES, AND CONTROL POINTS</p>	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
												09-00133-00-BR	JO DAVIESS	48	6
												STA.	- STA.		
												WHA PROJECT:	116909	DATE:	XX/XX/XXXX

LOCATION	EARTH EXCAVATION (SPECIAL) X 2020 410*	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
SCOUT CAMP ROAD	4,530.24	3,397.68	1,843.12	1,554.56
WELCH ROAD	190.07	142.56	323.85	-181.30
TOTAL	4,720.32	3,540.24	2,166.97	1,373.26

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		
STATION	CU YD	REMARKS
SCOUT CAMP ROAD		
CONTINGENCY ITEM	453	AS DIRECTED BY ENGINEER
SUBTOTAL:	453	
WELCH ROAD		
CONTINGENCY ITEM	19	AS DIRECTED BY ENGINEER
SUBTOTAL:	19	
PROJECT TOTAL	472	

20201200

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
SCOUT CAMP ROAD		
L 10+50 TO 24+50	90	
R 10+50 TO 24+50	55	
SUBTOTAL:	145	
WELCH ROAD		
L 80+50 TO 83+00	13	
R 80+50 TO 83+00	8	
SUBTOTAL:	21	
PROJECT TOTAL	166	

28000250*

TREE REMOVAL (6 TO 15 UNITS DIAMETER)		
STATION	UNIT	REMARKS
SCOUT CAMP ROAD		
12+40 R 38'	12	
12+49 R 40'	14	2 @ 7"
12+53 R 39'	10	
12+59 R 39'	6	
12+63 R 38'	6	
12+71 L 36'	7	
12+72 R 40'	6	
12+76 R 34'	6	
12+81 R 53'	9	
12+82 R 52'	9	
12+84 R 35'	6	
12+93 R 32'	7	
12+94 R 36'	12	
12+95 R 31'	7	
12+97 R 53'	6	
13+04 R 45'	9	
13+08 R 25'	12	
13+08 R 66'	12	
13+09 R 64'	15	
13+95 R 39'	10	
13+98 L 51'	7	
14+11 R 41'	7	
PROJECT TOTAL	195	

20100110

TRENCH BACKFILL		
STATION	CU YD	REMARKS
SCOUT CAMP ROAD		
22+80.00	9	24" P CUL
SUBTOTAL:	9	
WELCH ROAD		
83+00.00	24	30" P CUL
SUBTOTAL:	24	
PROJECT TOTAL	33	

20800150

TEMPORARY DITCH CHECKS		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
L 13+00	5	
L 19+00	5	
L 20+50	5	
L 22+00	5	
PROJECT TOTAL	20	

28000305*

SEEDING, CLASS 2 (SPECIAL)		
STATION	ACRE	REMARKS
SCOUT CAMP ROAD		
L 10+50 TO 24+50	0.90	
R 10+50 TO 24+50	0.55	
SUBTOTAL:	1.45	
WELCH ROAD		
L 80+50 TO 83+00	0.13	
R 80+50 TO 83+00	0.08	
SUBTOTAL:	0.21	
PROJECT TOTAL	1.66	

X2501000*

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
L 10+50 TO 12+40	198	ALONG PROP ROW
L 24+34	10	PERPENDICULAR TO DITCH
R 10+50 TO 13+50	291	ALONG PROP ROW
R 13+90 TO 24+50	1,001	ALONG PROP ROW
SUBTOTAL:	1,490	
WELCH ROAD		
R 80+50 TO 82+90	239	ALONG EXIST & PROP ROW
SUBTOTAL:	239	
PROJECT TOTAL	1,739	

28000400

TREE REMOVAL, ACRES		
STATION	ACRE	REMARKS
SCOUT CAMP ROAD		
L 19+05 TO 21+96	0.21	
L 23+02 TO 24+28	0.06	
PROJECT TOTAL	0.27	

20100500

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
SCOUT CAMP ROAD		
L 10+50 TO 24+50	4,356	
R 10+50 TO 24+50	2,662	
SUBTOTAL:	7,018	
WELCH ROAD		
L 80+50 TO 83+00	629	
R 80+50 TO 83+00	387	
SUBTOTAL:	1,016	
PROJECT TOTAL	8,034	

25100630

INLET AND PIPE PROTECTION		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
L 22+80	1	AT 24" P CUL
SUBTOTAL:	1	
WELCH ROAD		
L 83+00	1	AT 30" P CUL
SUBTOTAL:	1	
PROJECT TOTAL	2	

28000500

FILE = S:\PROJECTS\1169009_JoDaviesCo_ScoutCampRoad.DESIGN\STRUCT\COVERETC.dgn

REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

WILLETT, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.294.3381 Fax 815.294.3385
Design Firm #184-00918
www.willetthofmann.com

F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

SCHEDULES OF QUANTITIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	7
STA.	STA.		
WHA PROJECT: 1169D09	DATE: XX/XX/XXXX		

STONE DUMPED RIPRAP, CLASS A3		
STATION	SQ YD	REMARKS
SCOUT CAMP ROAD		
R 22+69 TO 22+89	15	
PROJECT TOTAL	15	

28100705

AGGREGATE BASE COURSE, TYPE B		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
PEL 22+50	37	8"
Contingency Item	30	As Directed by the Engineer
PROJECT TOTAL	67	

35101400

HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	3	1 1/2" (TAPER)
10+62.14 TO 13+18.37	54	1 1/2" (MAINLINE)
14+01.63 TO 24+08.63	212	1 1/2" (MAINLINE)
24+08.63 TO 24+50.00	8	1 1/2" TAPER
SUBTOTAL:	277	
WELCH ROAD		
80+50.00 TO 81+11.59	10	1 1/2" (TAPER)
81+11.59 TO 83+01.18	33	1 1/2" (MAINLINE)
83+01.18 TO 83+39.00	12	1 1/2" (INCLUDES RADII)
SUBTOTAL:	55	
CALCULATIONS BASED ON 115# / SY / INCH		
PROJECT TOTAL	332	

40603000

SUB-BASE GRANULAR MATERIAL, TYPE B		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	15	8" (TAPER)
10+62.14 TO 13+18.37	311	8" (MAINLINE)
14+01.63 TO 24+08.63	1,218	8" (MAINLINE)
24+08.63 TO 24+50.00	49	8" TAPER
SUBTOTAL:	1,593	
WELCH ROAD		
80+50.00 TO 81+11.59	57	8" (TAPER)
81+11.59 TO 83+01.18	192	8" (MAINLINE)
83+01.18 TO 83+39.00	67	8" (INCLUDES RADII)
SUBTOTAL:	316	
PROJECT TOTAL	1,909	

31101000*

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	GALLON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	12	0.4 GAL/SQ YD ON AGG (TAPER)
10+62.14 TO 13+18.37	251	0.4 GAL/SQ YD ON AGG (MAINLINE)
14+01.63 TO 24+08.63	985	0.4 GAL/SQ YD ON AGG (MAINLINE)
24+08.63 TO 24+50.00	39	0.4 GAL/SQ YD ON AGG (TAPER)
10+50.00 TO 10+62.14	3	0.1 GAL/SQ YD ON BIT (TAPER)
10+62.14 TO 13+18.37	63	0.1 GAL/SQ YD ON BIT (MAINLINE)
14+01.63 TO 24+08.63	246	0.1 GAL/SQ YD ON BIT (MAINLINE)
24+08.63 TO 24+50.00	10	0.1 GAL/SQ YD ON BIT (TAPER)
PEL 22+50	32	0.4 GAL/SY ON AGG
SUBTOTAL:	1,641	
WELCH ROAD		
80+50.00 TO 81+11.59	45	0.4 GAL/SY ON AGG (TAPER)
81+11.59 TO 83+01.18	152	0.4 GAL/SY ON AGG (MAINLINE)
83+01.18 TO 83+39.00	54	0.4 GAL/SY ON AGG (INCLUDES RADII)
80+50.00 TO 81+11.59	11	0.1 GAL/SY ON BIT (TAPER)
81+11.59 TO 83+01.18	38	0.1 GAL/SY ON BIT (MAINLINE)
83+01.18 TO 83+39.00	13	0.1 GAL/SY ON BIT (INCLUDES RADII)
SUBTOTAL:	313	
PROJECT TOTAL	1,954	

40600100*

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	3	1 1/2" (TAPER)
10+62.14 TO 13+18.37	54	1 1/2" (MAINLINE)
14+01.63 TO 24+08.63	212	1 1/2" (MAINLINE)
24+08.63 TO 24+50.00	8	1 1/2" TAPER
SUBTOTAL:	277	
WELCH ROAD		
80+50.00 TO 81+11.59	10	1 1/2" (TAPER)
81+11.59 TO 83+01.18	33	1 1/2" (MAINLINE)
83+01.18 TO 83+39.00	12	1 1/2" (INCLUDES RADII)
SUBTOTAL:	55	
CALCULATIONS BASED ON 115# / SY / INCH		
PROJECT TOTAL	332	

40603310

AGGREGATE BASE COURSE, TYPE A		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	7	4" (TAPER)
10+62.14 TO 13+18.37	143	4" (MAINLINE)
14+01.63 TO 24+08.63	560	4" (MAINLINE)
24+08.63 TO 24+50.00	22	4" TAPER
SUBTOTAL:	732	
WELCH ROAD		
80+50.00 TO 81+11.59	25	4" (TAPER)
81+11.59 TO 83+01.18	86	4" (MAINLINE)
83+01.18 TO 83+39.00	30	4" (INCLUDES RADII)
SUBTOTAL:	141	
PROJECT TOTAL	873	

35100100*

AGGREGATE (PRIME COAT)		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
10+50.00 TO 10+62.14	0.1	3 LBS/SQ YD (TAPER)
10+62.14 TO 13+18.37	0.9	3 LBS/SQ YD (MAINLINE)
14+01.63 TO 24+08.63	3.7	3 LBS/SQ YD (MAINLINE)
24+08.63 TO 24+50.00	0.1	3 LBS/SQ YD (TAPER)
SUBTOTAL:	4.8	
WELCH ROAD		
80+50.00 TO 81+11.59	0.2	3 LBS/SQ YD (TAPER)
81+11.59 TO 83+01.18	0.6	3 LBS/SQ YD (MAINLINE)
83+01.18 TO 83+39.00	0.2	3 LBS/SQ YD (INCLUDES RADII)
SUBTOTAL:	1.0	
PROJECT TOTAL	5.8	

40600300*

INCIDENTAL HOT-MIX ASPHALT SURFACING		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
PEL 22+50	9	2"
CALCULATIONS BASED ON 115# / SY / INCH		
PROJECT TOTAL	9	

40800050*

FILE = S:\PROJECTS\1169009\JoDaviesCo_ScoutCampRoad\DESIGN\STRUCT.CONCRETE.dgn

REV.	DATE	BY	REMARKS	DRAWN	<p align="center">JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS</p>	 <p>WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS Land Surveying - Transportation - Structural Environmental - Architecture 809 East Second Street, Dixon, Illinois 61021 Phone 815.284.3381 Fax 815.284.3385 Design Firm #184-00018 www.willett-hofmann.com</p>	<p align="center">SCHEDULES OF QUANTITIES</p>		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
												09-00133-00-BR	JO DAVIESS	48	8
												STA.	- STA.		
												WHA PROJECT:	1169009	DATE:	XX/XX/XXXX

AGGREGATE SHOULDERS, TYPE B 4"		
STATION	SQ YD	REMARKS
SCOUT CAMP ROAD		
L 10+50.00 TO 11+96.05	65	
L 11+96.05 TO 13+18.37	133	
L 14+69.29 TO 22+32.76	345	
L 22+67.92 TO 24+50.00	82	
R 10+50.00 TO 11+48.26	42	
R 11+48.26 TO 13+18.37	123	
R 14+01.63 TO 15+33.08	107	
R 15+33.08 TO 24+50.00	396	
SUBTOTAL:	1,293	
WELCH ROAD		
R 81+99.52 TO 83+40.66	120	
SUBTOTAL:	120	
PROJECT TOTAL	1,413	

PIPE CULVERTS, CLASS A, TYPE 1 24"		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
L & R 22+80.00	45	ACROSS ROAD
PROJECT TOTAL	45	

PIPE CULVERTS, CLASS A, TYPE 2 30"		
STATION	FOOT	REMARKS
WELCH ROAD		
83+00.00	55	ACROSS ROAD
PROJECT TOTAL	55	

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
L & R 22+80.00	2	
PROJECT TOTAL	2	

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"		
STATION	EACH	REMARKS
WELCH ROAD		
L & R 83+00.00	2	
PROJECT TOTAL	2	

TRAFFIC BARRIER TERMINAL, TYPE 6A		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
R 12+72.46 TO 13+19.47	1	
L 12+78.37 TO 13+22.28	1	
L 13+97.72 TO 14+29.15 L 42.44'	1	AT WELCH ROAD RADIUS
R 14+00.53 TO 14+47.54	1	
PROJECT TOTAL	4	

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
R 12+20.92 TO 12+72.46	1	
R 14+47.54 TO 14+99.08	1	
L 12+30.05 TO 12+78.37	1	
SUBTOTAL:	3	
WELCH ROAD		
R 82+57.52 TO 83+07.72	1	
SUBTOTAL:	1	
PROJECT TOTAL	4	

BARBED WIRE FENCE, FIVE STRAND		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
LT 10+23.64 TO 13+86.48	386	ALONG PROP. ROW
LT 14+81.05 TO 21+96.03	813	ALONG PROP. ROW
LT 22+91.14 TO 24+50	215	ALONG PROP. ROW
RT 10+50 TO 24+50	1,361	ALONG PROP. ROW
WELCH ROAD		
LT 80+28.77 TO 82+81.82	261	ALONG PROP. ROW
82+00 TO 83+03.28	108	ALONG PROP. ROW
PROJECT TOTAL	3,144	

PERMANENT SURVEY MARKERS, TYPE II		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
R 14+52.15	1	FUTURE LOCATION TO BE DETERMINED
PROJECT TOTAL	1	

PAINT PAVEMENT MARKING - LINE 4"		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
L 10+50.00 TO 14+00.80	356	EDGE LINE (WHITE)
L 14+85.66 TO 24+50.00	984	EDGE LINE (WHITE)
R 10+50.00 TO 24+50.00	1,375	EDGE LINE (WHITE)
10+50.00 TO 24+50.00	2,800	DBL @ CL (YELLOW)
SUBTOTAL:	5,515	
WELCH ROAD		
L 80+50.00 TO 83+39.00	312	EDGE LINE (WHITE) - INCL RADIUS
R 80+50.00 TO 83+90.00	306	EDGE LINE (WHITE) - INCL RADIUS
80+50.00 TO 82+90.00	480	DBL @ CL (YELLOW)
SUBTOTAL:	1,098	
PROJECT TOTAL	6,613	

PAINT PAVEMENT MARKING - LINE 24"		
STATION	FOOT	REMARKS
SCOUT CAMP ROAD		
R 82+90.00	9	STOP BAR (WHITE)
PROJECT TOTAL	9	

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

SCHEDULES OF QUANTITIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	9
STA.	STA.		
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

GUARDRAIL MARKERS, TYPE A		
STATION	EACH	REMARKS
SCOUT CAMP ROAD		
R 12+20.92 TO 13+19.47	2	
L 12+30.05 TO 13+22.28	2	
L 13+97.72 TO 14+29.15 L 42.44'	1	
R 14+00.53 TO 14+99.08	2	
SUBTOTAL:	7	
WELCH ROAD		
R 82+57.52 TO 83+07.72	1	
SUBTOTAL:	1	
PROJECT TOTAL	8	

BREAKER-RUN CRUSHED STONE		
STATION	TON	REMARKS
SCOUT CAMP ROAD		
CONTINGENCY ITEM	929	AS DIRECTED BY ENGINEER
SUBTOTAL:	929	
WELCH ROAD		
CONTINGENCY ITEM	39	AS DIRECTED BY ENGINEER
SUBTOTAL:	39	
PROJECT TOTAL	968	

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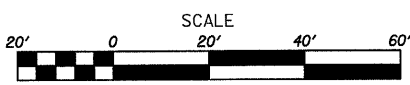
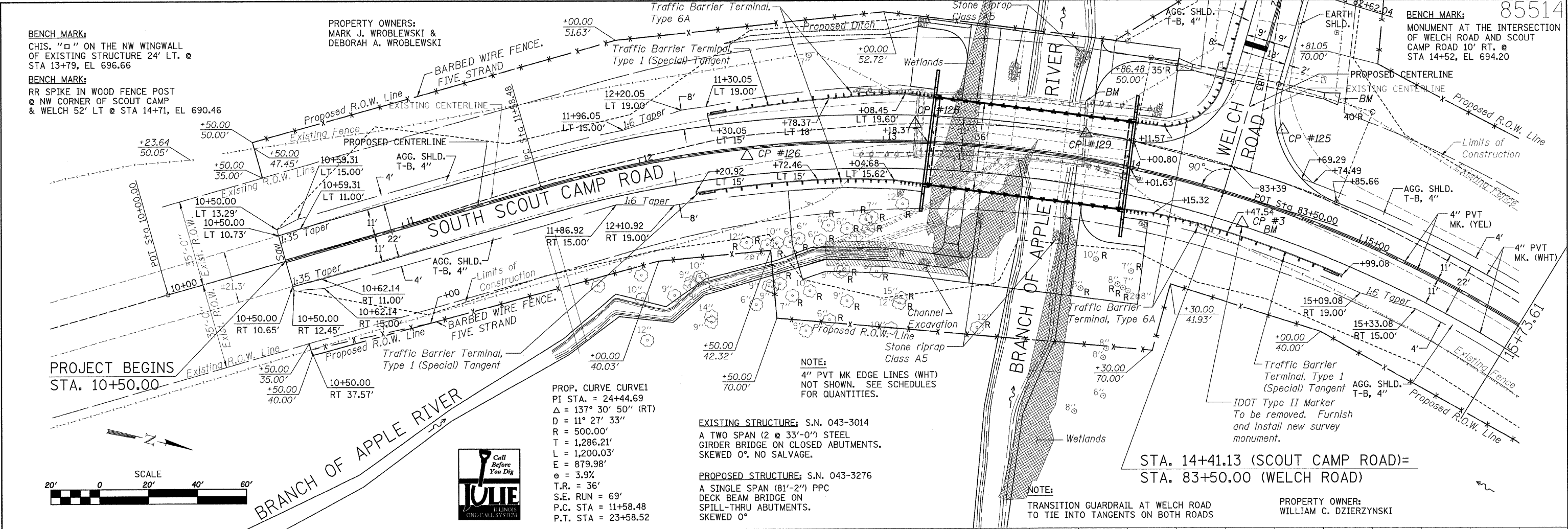
REV.	DATE	BY	REMARKS	DRAWN X.X.X.	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS		F.A.S. 73 FED. AID PROJECT - FED. ROAD DIST. NO. 7 ILLINOIS	SCHEDULES OF QUANTITIES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
												09-00133-00-BR	JO DAVIESS	48	10
												STA.	- STA.		
WHA PROJECT: 1169D09										DATE: XX/XX/XXXX					

BENCH MARK:
CHIS. "□" ON THE NW WINGWALL
OF EXISTING STRUCTURE 24' LT. @
STA 13+79, EL 696.66

BENCH MARK:
RR SPIKE IN WOOD FENCE POST
@ NW CORNER OF SCOUT CAMP
& WELCH 52' LT @ STA 14+71, EL 690.46

PROPERTY OWNERS:
MARK J. WROBLEWSKI &
DEBORAH A. WROBLEWSKI

BENCH MARK:
MONUMENT AT THE INTERSECTION
OF WELCH ROAD AND SCOUT
CAMP ROAD 10' RT. @
STA 14+52, EL 694.20



PROP. CURVE CURVE1
PI STA. = 24+44.69
Δ = 137° 30' 50" (RT)
D = 11° 27' 33"
R = 500.00'
T = 1,286.21'
L = 1,200.03'
E = 879.98'
e = 3.9%
T.R. = 36'
S.E. RUN = 69'
P.C. STA = 11+58.48
P.T. STA = 23+58.52

NOTE:
4" PVT MK EDGE LINES (WHT)
NOT SHOWN. SEE SCHEDULES
FOR QUANTITIES.

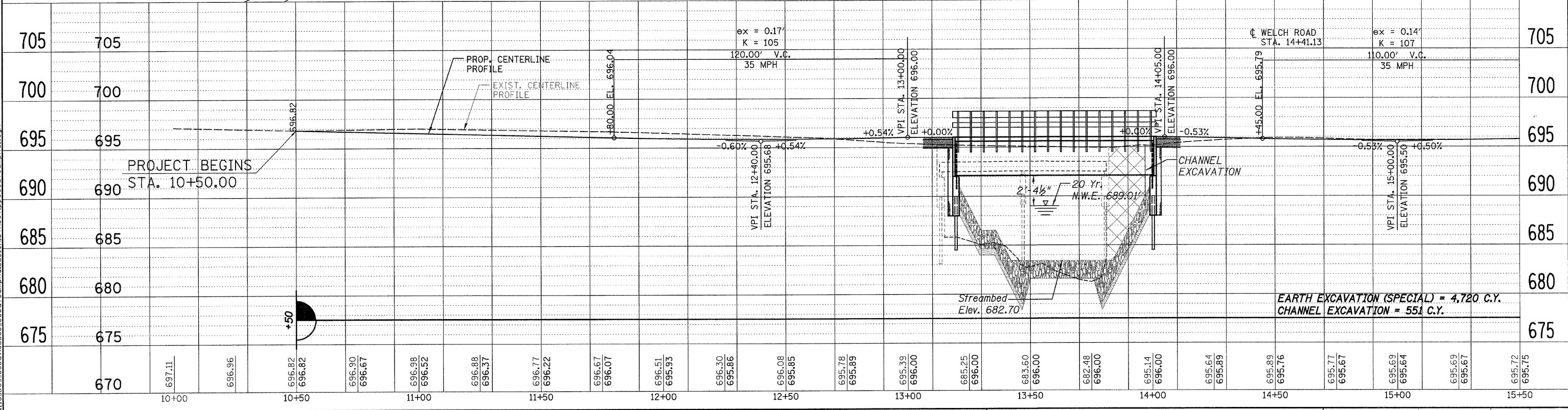
EXISTING STRUCTURE: S.N. 043-3014
A TWO SPAN (2 @ 33'-0") STEEL
GIRDER BRIDGE ON CLOSED ABUTMENTS.
SKEWED 0°. NO SALVAGE.

PROPOSED STRUCTURE: S.N. 043-3276
A SINGLE SPAN (81'-2") PPC
DECK BEAM BRIDGE ON
SPILL-THRU ABUTMENTS.
SKEWED 0°

NOTE:
TRANSITION GUARDRAIL AT WELCH ROAD
TO TIE INTO TANGENTS ON BOTH ROADS

PROPERTY OWNER:
WILLIAM C. DZIERZYNSKI

STA. 14+41.13 (SCOUT CAMP ROAD)=
STA. 83+50.00 (WELCH ROAD)



REV.	DATE	BY	REMARKS	DRAWN	CHECKED	APPROVED	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				X.X.X.	X.X.X.	X.X.X.	09-00133-00-BR	JO DAVIESS	48	11
							STA. 10+00.00 - STA. 15+73.61	WHA PROJECT: 1169009	DATE: XX/XX/XXXX	

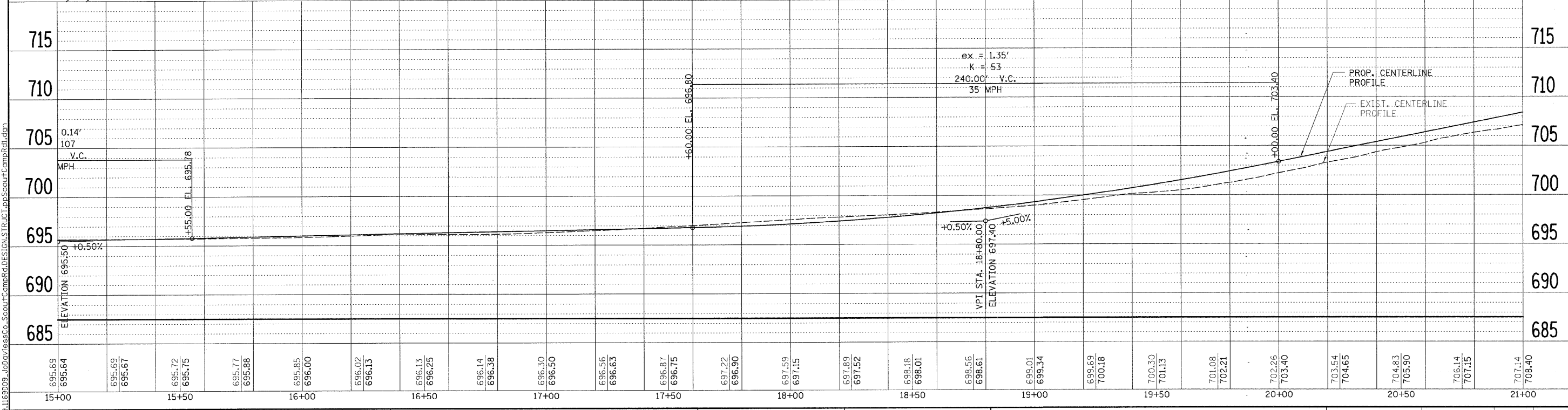
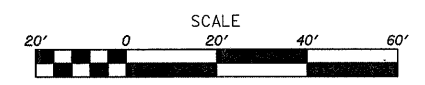
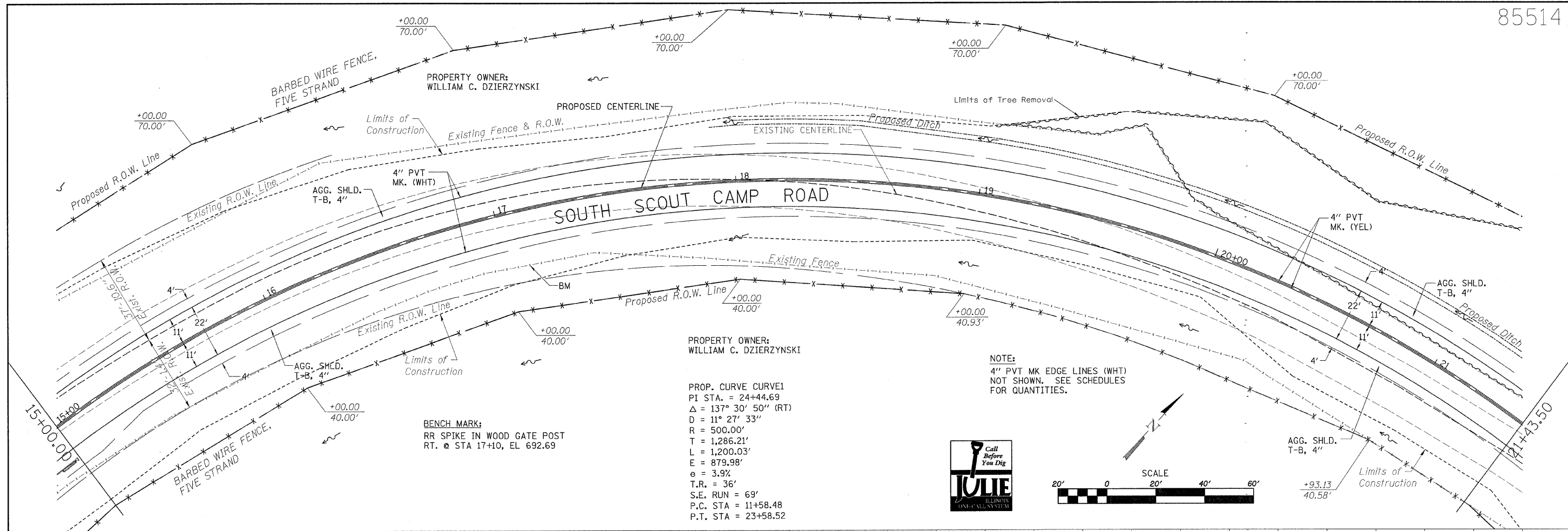
**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

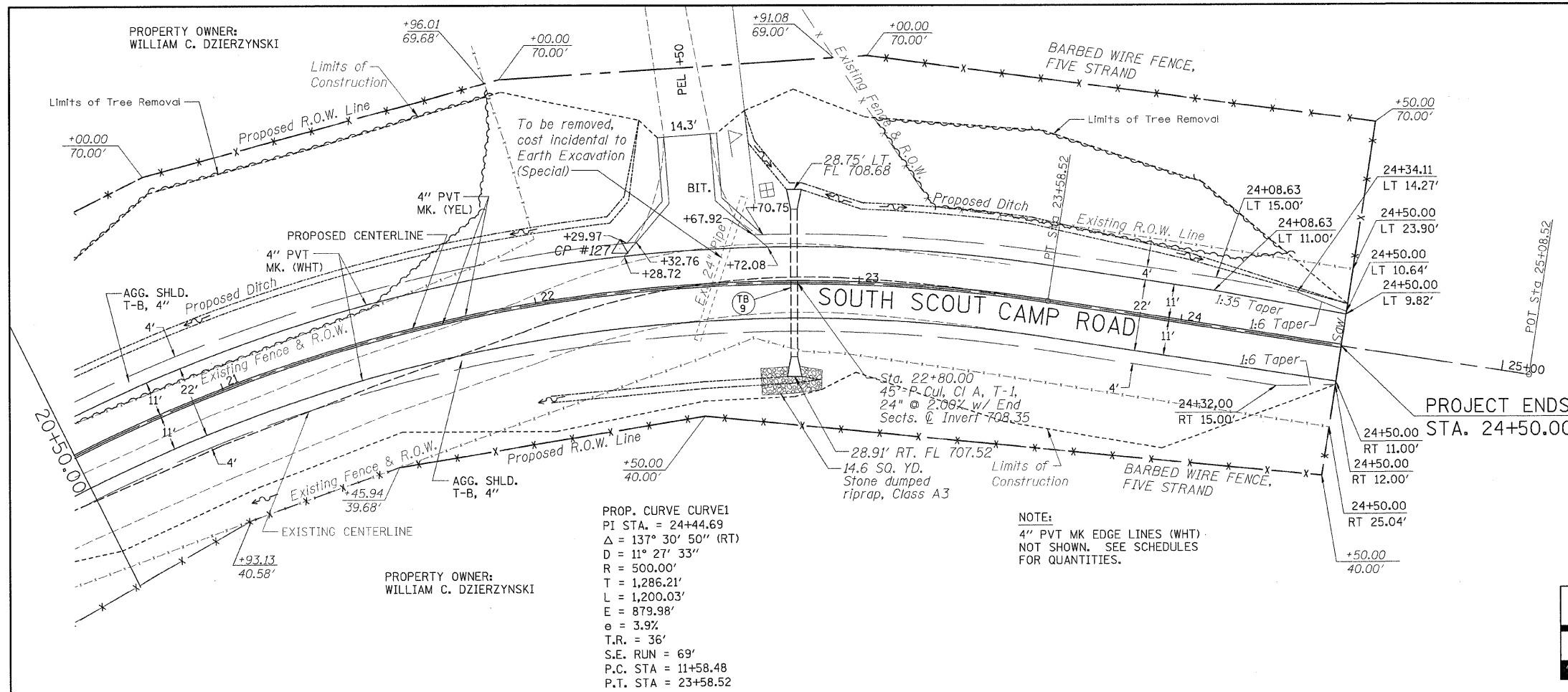
**SCOUT CAMP ROAD
PLAN & PROFILE**

STA. 10 + 00.00 - STA. 15 + 73.61

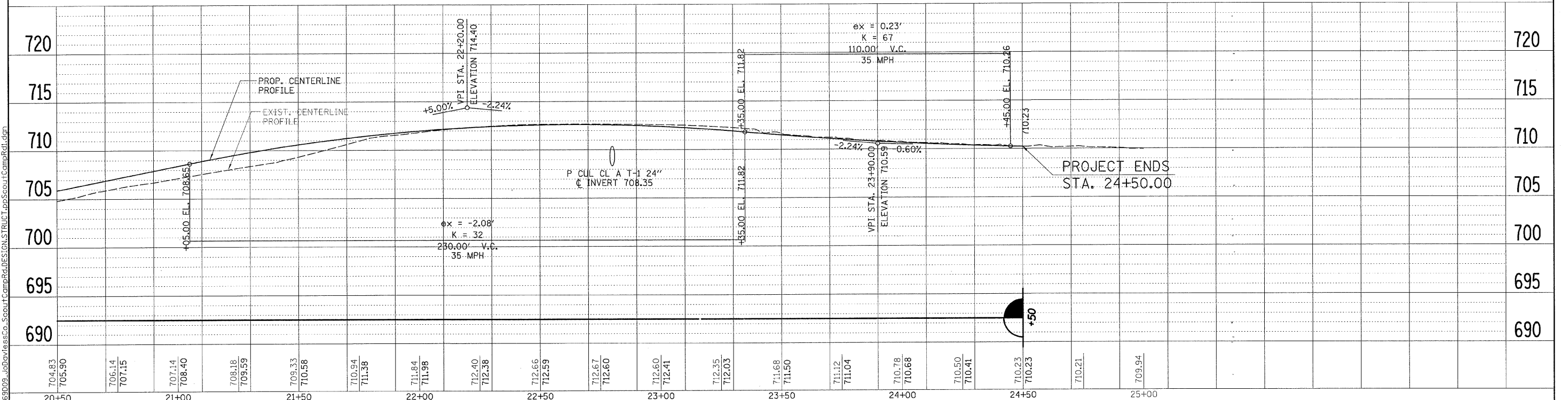
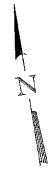
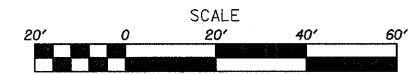


REV.	DATE	BY	REMARKS	DRAWN	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS		F.A.S. 73 FED. AID PROJECT - FED. ROAD DIST. NO. 7 ILLINOIS	SCOUT CAMP ROAD PLAN & PROFILE STA. 15+00.00 - STA. 21+43.50	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CHECKED					09-00133-00-BR	JO DAVIESS	48	12
				APPROVED					STA. 15+00.00 - STA. 21+43.50	DATE: XX/XX/XXXX		

FILE = S:\PROJECTS\2009\1169D09_06\Drawings\Co_ScoutCampRd\DESIGN\STRUCT\pp_ScoutCampRd.dgn



NOTE:
 4" PVT MK EDGE LINES (WHT)
 NOT SHOWN. SEE SCHEDULES
 FOR QUANTITIES.



REV.	DATE	BY	REMARKS

DRAWN X.X.X.
CHECKED X.X.X.
APPROVED X.X.X.

**JO DAVIESS COUNTY
 SCOUT CAMP ROAD AND
 WELCH ROAD IMPROVEMENTS**

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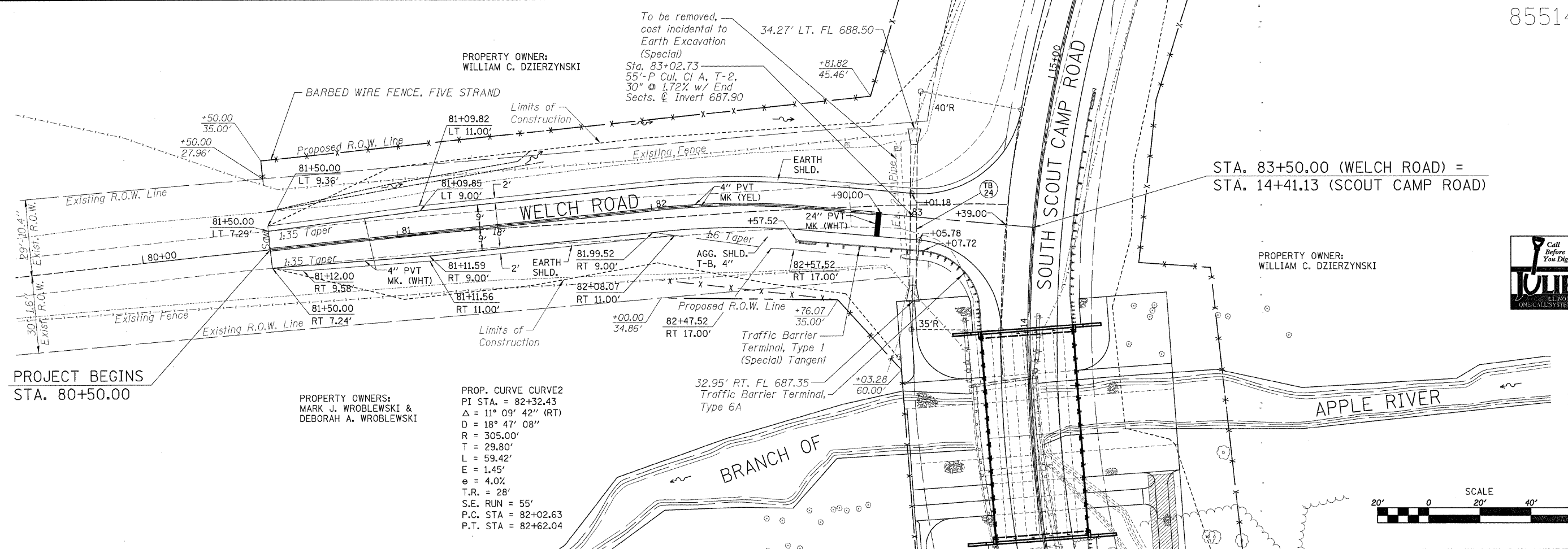
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
 PLAN & PROFILE**

STA. 20 + 50.00 - STA. 25 + 08.52

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	13
STA. 20+50.00 - STA. 25+08.52			
WHA PROJECT: 1169D09	DATE: XX/XX/XXXX		

FILE = S:\PROJECTS\2009\1169D09\JoDavieSSCo_ScoutCampRoad\DESIGN\STRUCT\ppScoutCampRoad.dgn



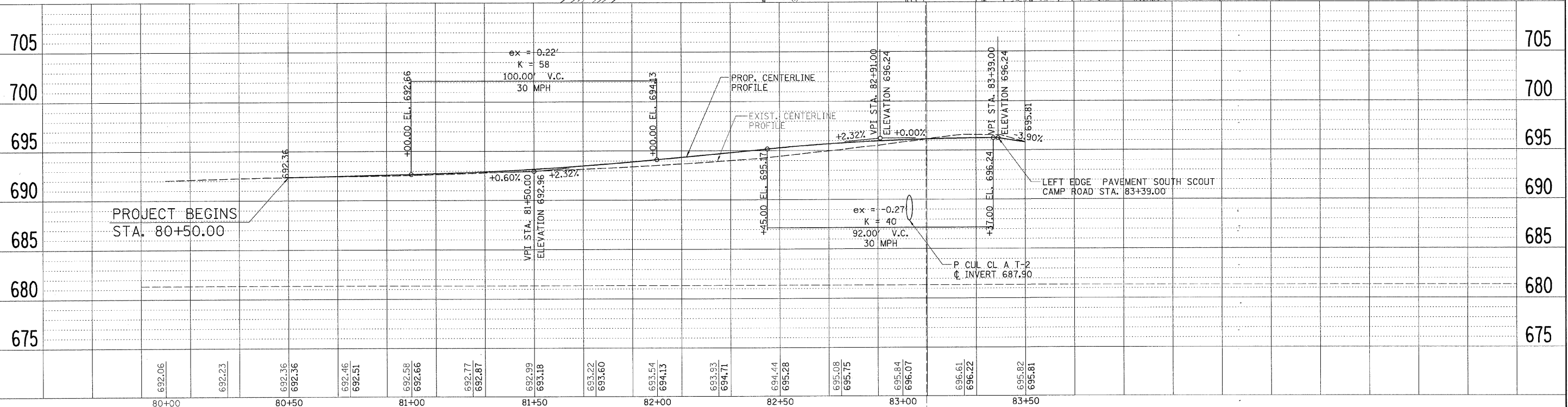
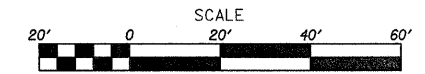
PROJECT BEGINS
STA. 80+50.00

PROPERTY OWNERS:
MARK J. WROBLEWSKI &
DEBORAH A. WROBLEWSKI

PROP. CURVE CURVE2
PI STA. = 82+32.43
Δ = 11° 09' 42" (RT)
D = 18° 47' 08"
R = 305.00'
T = 29.80'
L = 59.42'
E = 1.45'
e = 4.0%
T.R. = 28'
S.E. RUN = 55'
P.C. STA = 82+02.63
P.T. STA = 82+62.04

STA. 83+50.00 (WELCH ROAD) =
STA. 14+41.13 (SCOUT CAMP ROAD)

PROPERTY OWNER:
WILLIAM C. DZIERZYNSKI



REV.	DATE	BY	REMARKS

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

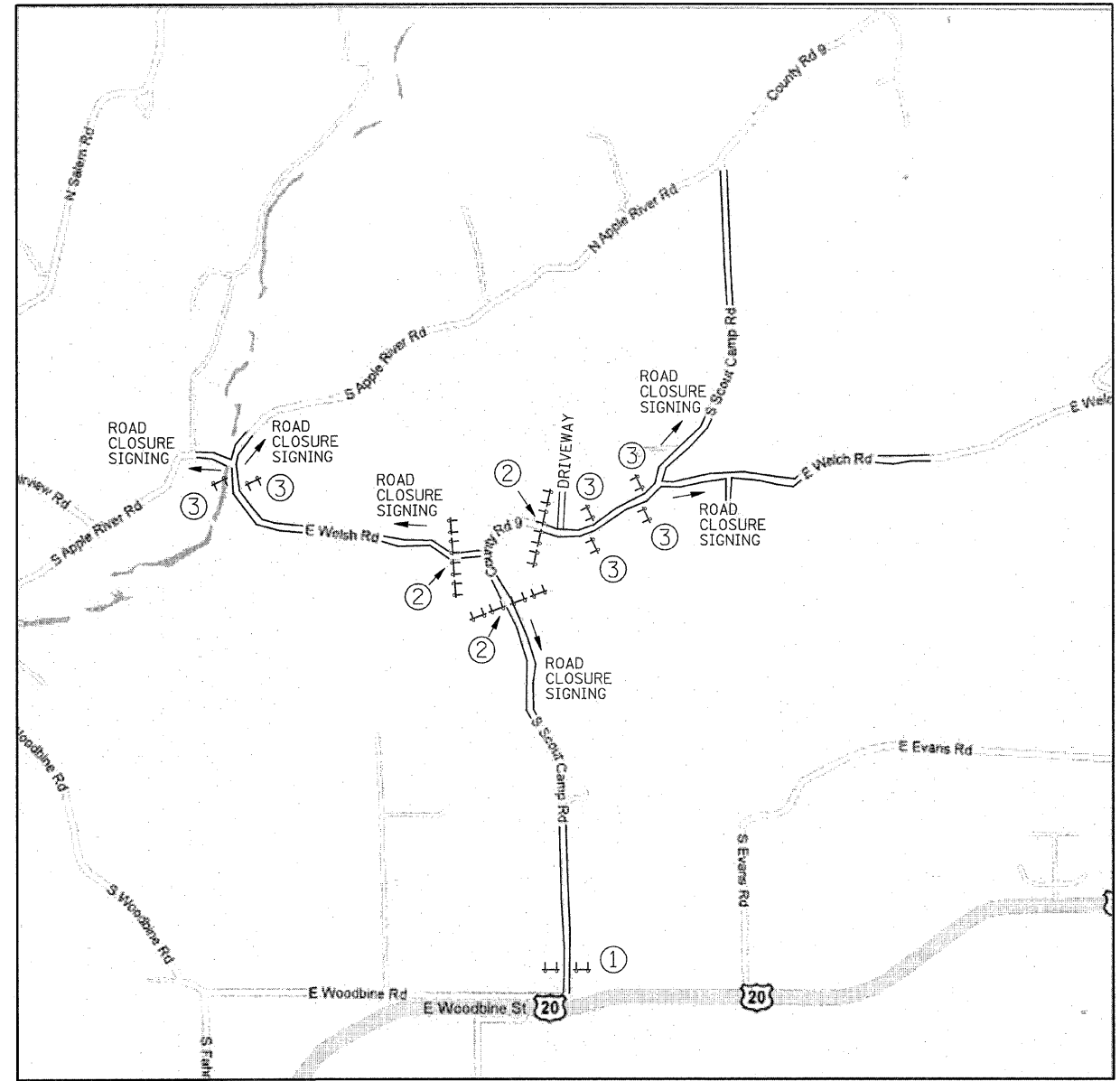
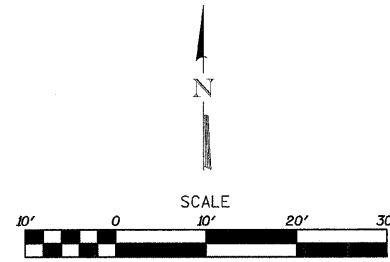
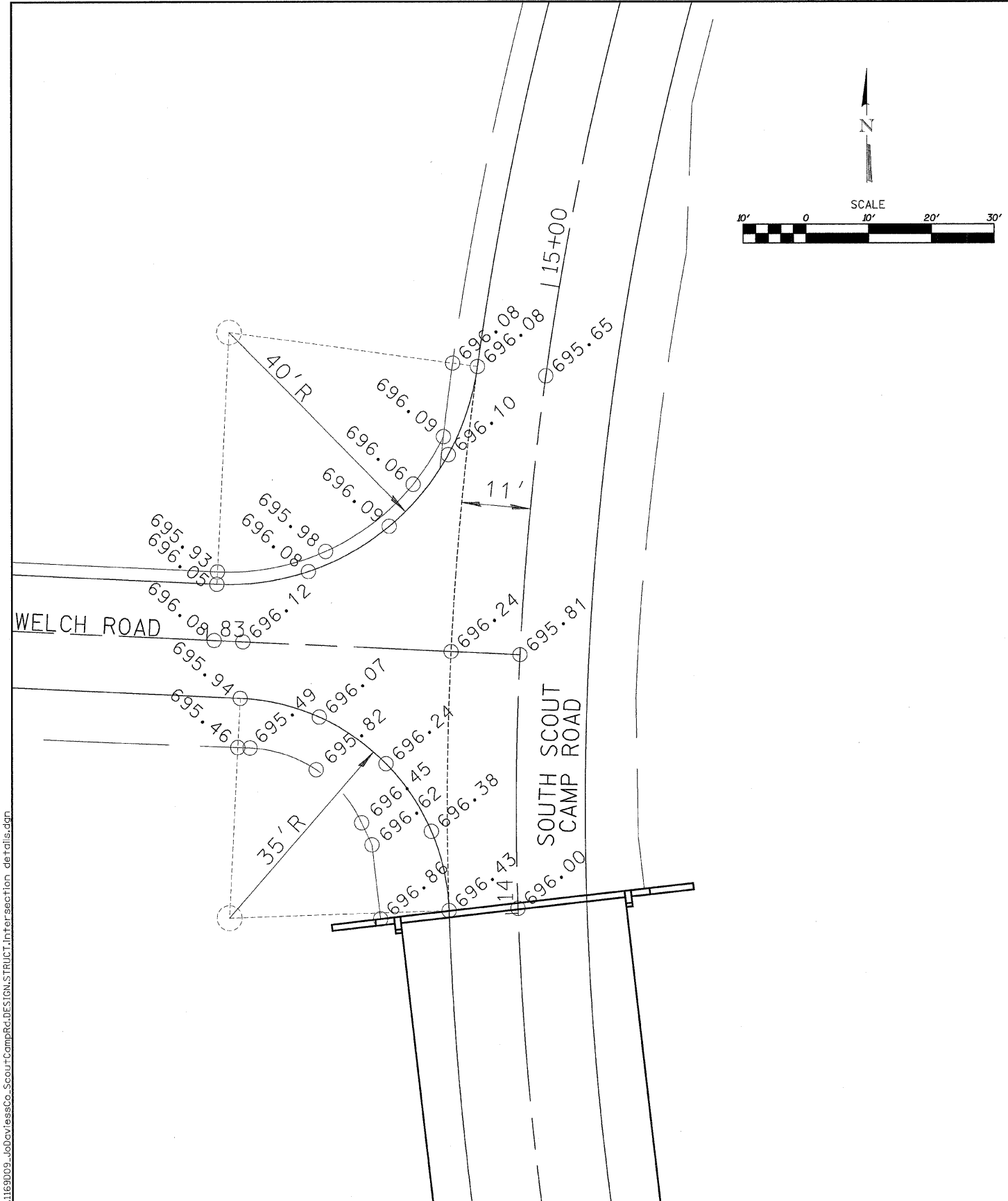
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Phone 815.294.3381 Fax 815.294.3385
Design Firm #184-000918 www.willettthofmann.com

**WELCH ROAD
PLAN & PROFILE**

F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS
STA. 80+00.00 - STA. 83+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	14
STA. 80+00.00 - STA. 83+50.00			
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\2009\1169D09_JoDavlessCo_ScoutCampRoad\DESIGN\STRUCT\pWelchRd.dgn



① ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3 (60x30)

② ROAD
CLOSED

R-11-8

③ ROAD CLOSED
TO
THRU TRAFFIC

R11-4

ROAD CLOSURE PLAN

REV.	DATE	BY	REMARKS

DRAWN X.X.X.	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS
CHECKED X.X.X.	
APPROVED X.X.X.	

WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.294.3381 Fax 815.294.3385
Design Firm #184-000918 www.willettthofmann.com

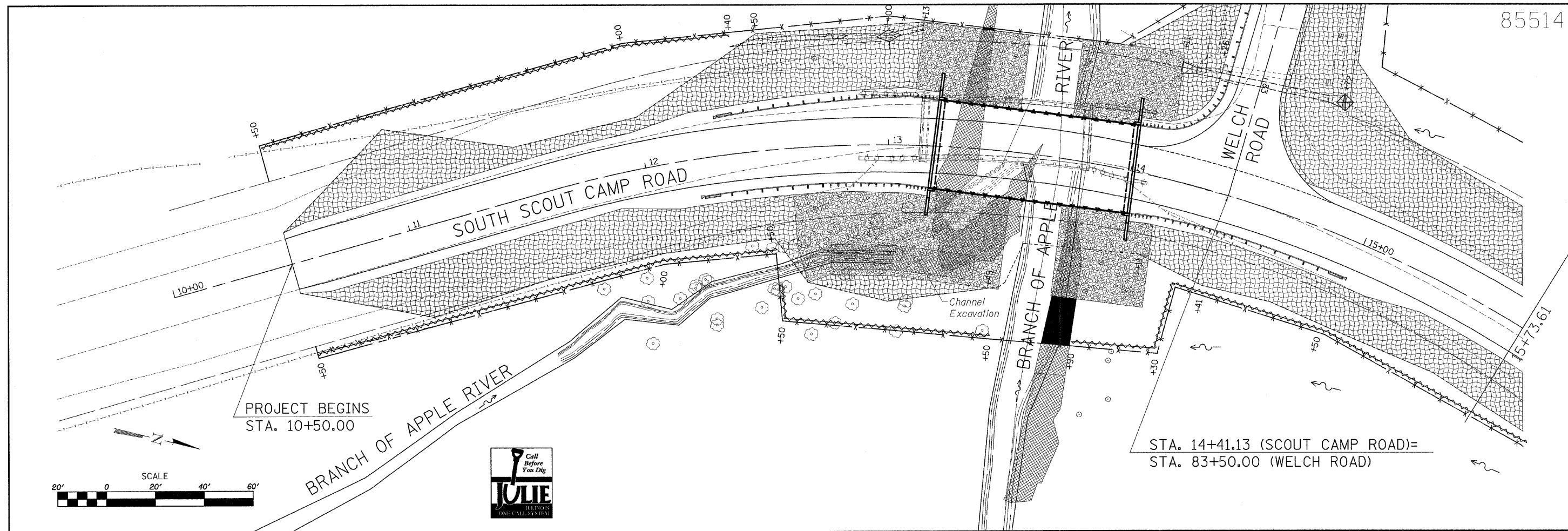
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD & WELCH ROAD
INTERSECTION DETAILS
& ROAD CLOSURE PLAN**

STA. 14 + 00.80 - STA. 14 + 85.66

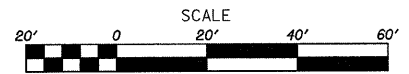
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	15
STA. 14+00.80 - STA. 14+85.66			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\2009\1169009\JO Daviess Co_Scout_Camp_Rd_DESIGN\STRUCT\Intersection_details.dgn



PROJECT BEGINS
STA. 10+50.00

STA. 14+41.13 (SCOUT CAMP ROAD)=
STA. 83+50.00 (WELCH ROAD)



LEGEND	
	INLET PROTECTION
	PERIMETER EROSION BARRIER
	DRAINAGE FLOW
	TEMPORARY DITCH CHECK
	STONE DUMPED RIPRAP, CLASS B3
	SEEDING AND EROSION CONTROL BLANKET
	TREE REMOVAL (ACRES)
	WETLAND
	REDTOP SEEDING

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

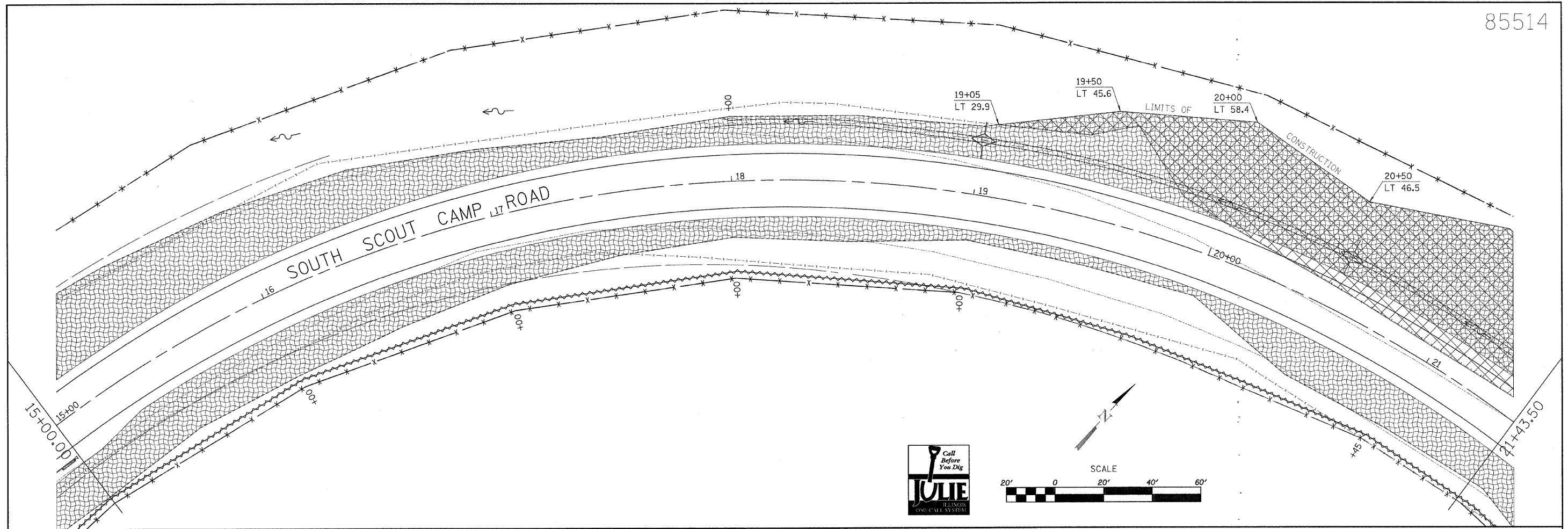
**WILLETT,
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F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
SWPPP**

STA. 10+00.00 - STA. 15+73.61

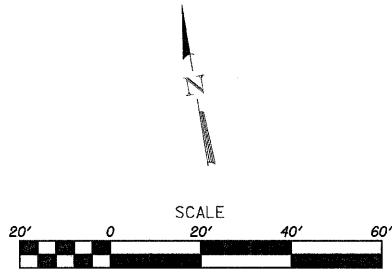
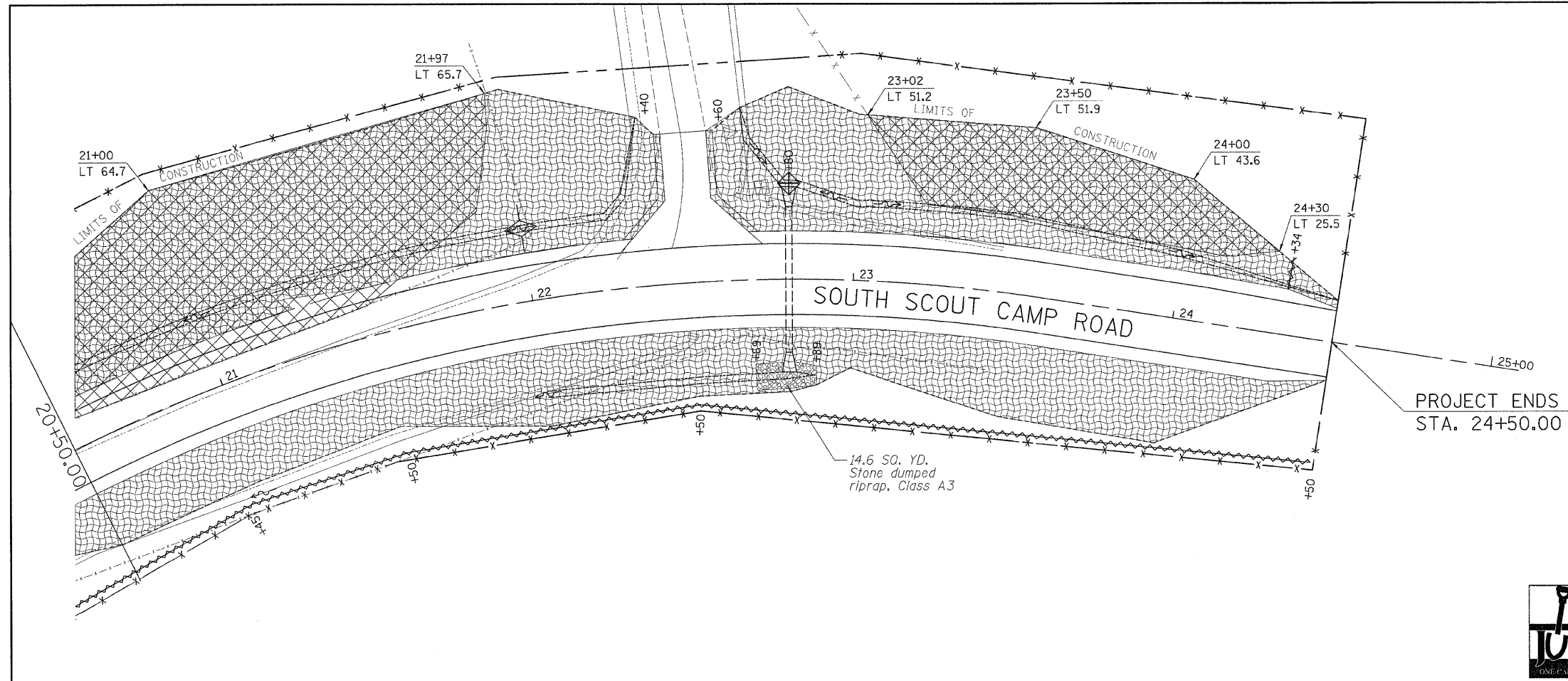
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09-00133-00-BR	JO DAVIESS	48	16
STA. 10+00.00 - STA. 15+73.61			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	



LEGEND	
	INLET PROTECTION
	PERIMETER EROSION BARRIER
	DRAINAGE FLOW
	TEMPORARY DITCH CHECK
	STONE DUMPED RIPRAP, CLASS B3
	SEEDING AND EROSION CONTROL BLANKET
	TREE REMOVAL (ACRES)

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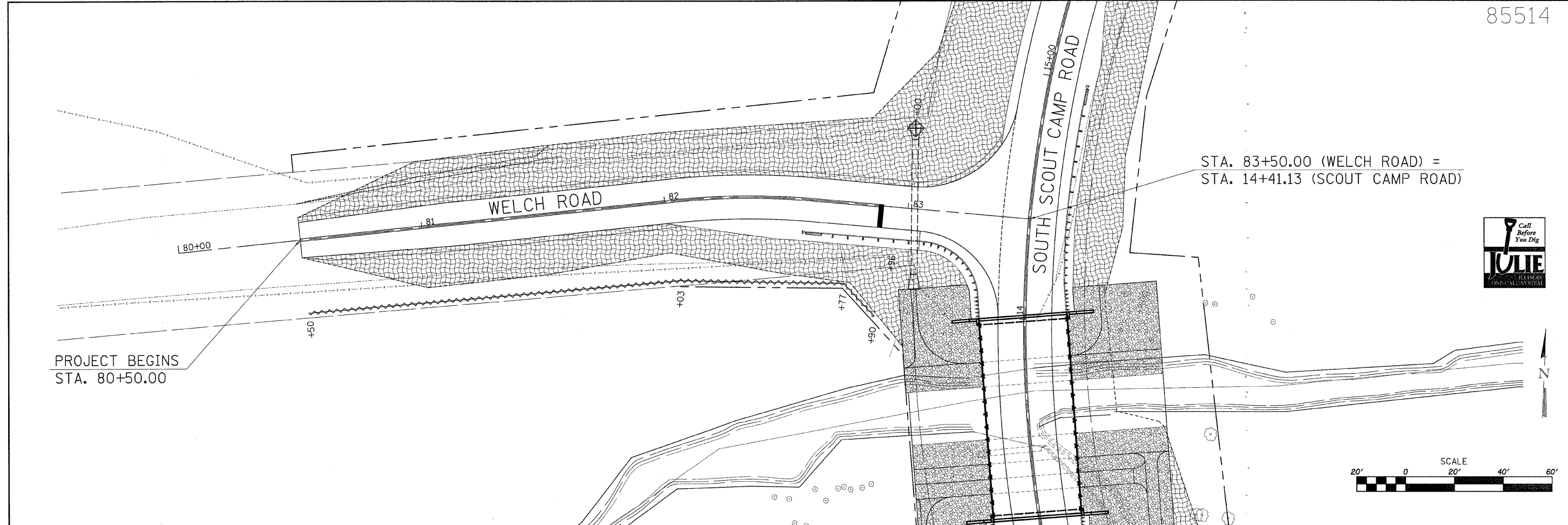
REV.	DATE	BY	REMARKS	DRAWN	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS	WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS <small>Land Surveying - Transportation - Structural Environmental - Architecture</small> 809 East Second Street Dixon, Illinois 61021 Phone 815.294.3381 Fax 815.294.3385 Design Firm #184-000918 www.willett-hofmann.com	SCOUT CAMP ROAD SWPPP		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				X.X.X.			F.A.S. 73		09-00133-00-BR	JO DAVIESS	48	17	
				CHECKED X.X.X.			FED. AID PROJECT -		STA. 15+00.00 - STA. 21+43.50				
				APPROVED X.X.X.			FED. ROAD DIST. NO. 7 ILLINOIS		STA. 15 + 00.00 - STA. 21 + 43.50	WHA PROJECT: 1169D09	DATE: XX/XX/XXXX		



LEGEND	
	INLET PROTECTION
	PERIMETER EROSION BARRIER
	DRAINAGE FLOW
	TEMPORARY DITCH CHECK
	STONE DUMPED RIPRAP, CLASS B3
	SEEDING AND EROSION CONTROL BLANKET
	TREE REMOVAL (ACRES)

FILE = S:\PROJECTS\116909 - JoDaviesCo_ScoutCampRd.DESIGN\STRUCT\swpppScoutCampRd.dgn

REV.	DATE	BY	REMARKS	DRAWN	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS		WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS <small>Land Surveying - Transportation - Structural Environmental - Architecture 809 East Second Street Dixon, Illinois 61021 Phone 815.294.3381 Fax 815.294.3385 Design Firm #184-000918 www.willettthofmann.com</small>		SCOUT CAMP ROAD SWPPP		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				X.X.X.			F.A.S. 73				09-00133-00-BR	JO DAVIESS	48	18	
				X.X.X.			FED. AID PROJECT -				STA. 20+50.00 - STA. 25+08.52				
				X.X.X.			FED. ROAD DIST. NO. 7 ILLINOIS		STA. 20 + 50.00 - STA. 25 + 08.52		WHA PROJECT: 1169009		DATE: XX/XX/XXXX		



PROJECT BEGINS
STA. 80+50.00

LEGEND	
	INLET PROTECTION
	PERIMETER EROSION BARRIER
	DRAINAGE FLOW
	TEMPORARY DITCH CHECK
	STONE DUMPED RIPRAP, CLASS B3
	EROSION CONTROL BLANKET

FILE: S:\PROJECTS\1169009\JoDaviesCo_ScoutCampRd\DESIGN\STRUCT\SWPPP\WelchRcd.dgn

REV.	DATE	BY	REMARKS	DRAWN	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS	 WILLETT, HOFMANN & ASSOCIATES, INC. CONSULTING ENGINEERS <small>Land Surveying - Transportation - Structural Environmental - Architecture</small> 809 East Second Street Dixon, Illinois 61021 Phone 815.284.3381 Fax 815.284.3385 Design Firm #184-000916 www.willettthofmann.com	F.A.S. 73 FED. AID PROJECT - FED. ROAD DIST. NO. 7 ILLINOIS	WELCH ROAD SWPPP		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				X.X.X.						09-00133-00-BR	JO DAVIESS	48	19	
				X.X.X.						STA. 80+00.00 - STA. 83+50.00				
				X.X.X.						STA. 80+00.00 - STA. 83+50.00				
								STA. 80+00.00 - STA. 83+50.00		WHA PROJECT: 1169009	DATE: XX/XX/XXXX			

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

85514

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY: TOTAL RECONSTRUCTION OF 1,400' OF SOUTH SCOUT CAMP ROAD (FAS 73) FROM STATION 10+50 TO 24+50 (INCLUDING BRIDGE REPLACEMENT) AND 289' OF WELCH ROAD FROM STATION 80+50 TO 83+39.

THIS PROJECT CONSISTS OF PAVEMENT REMOVAL, EARTH EXCAVATION, EXISTING BRIDGE REMOVAL AND REPLACEMENT, VARIOUS PAVEMENT ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: PAVEMENT REMOVAL, EARTH EXCAVATION, BRIDGE CONSTRUCTION, AGGREGATE BASE, BITUMINOUS SURFACE AND RELATED APPURTENANCES, PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.8 ACRES
 PROPOSED WORK PERMIT AND PERMANENT EASEMENT AREA 1.47 ACRES
 DISTURBED SOIL BY EXCAVATION (SEED AREA) 1.7 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE:
 BRANCH OF APPLE RIVER

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES
 STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
SILT FENCE INSTALLATION

STABILIZATION PRACTICES DURING CONSTRUCTION:

- (a) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- (c) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
- (d) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
- (e) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- (f) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
- (g) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION (SPECIAL).
- (h) THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. SEED SHALL BE WATERED ACCORDING TO THE SPECIFICATIONS AND ADDITIONAL WATERINGS SHALL BE USED AS DIRECTED BY THE ENGINEER.

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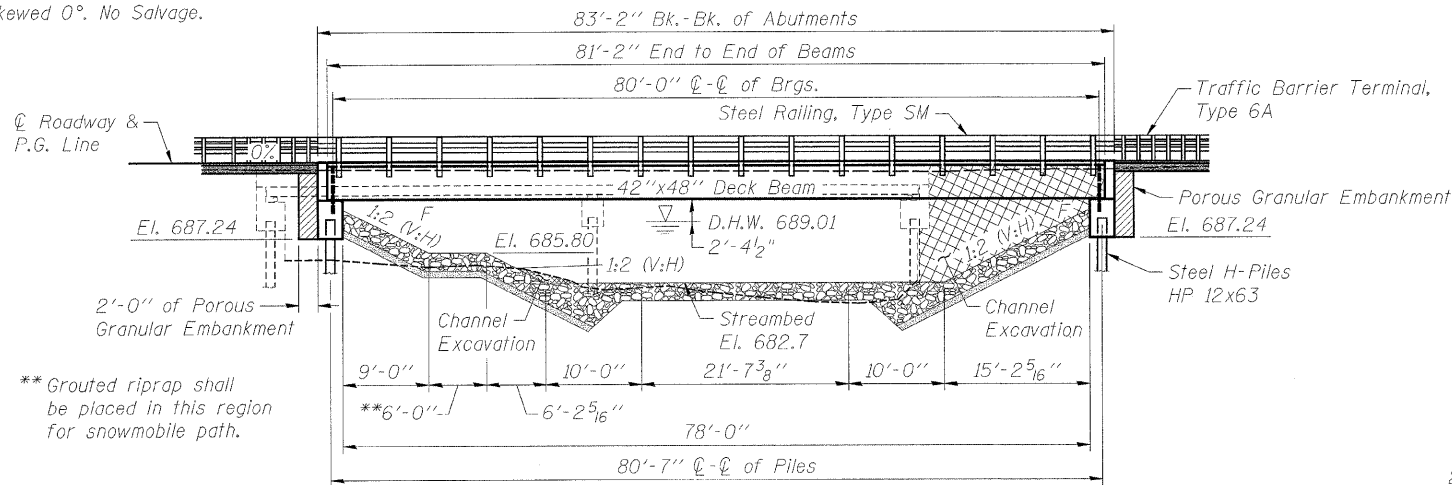
REV.	DATE	BY	REMARKS	DRAWN	X.X.X.			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				CHECKED	X.X.X.	JO DAVIESS COUNTY SCOUT CAMP ROAD AND WELCH ROAD IMPROVEMENTS		09-00133-00-BR	JO DAVIESS	48	20	
				APPROVED	X.X.X.			F.A.S. 73	SCOUT CAMP ROAD & WELCH ROAD SWPPP NOTES			
								FED. AID PROJECT -	STA. - STA.			DATE: XX/XX/XXXX
							FED. ROAD DIST. NO. 7 ILLINOIS	WHA PROJECT: 116909				

EXISTING STRUCTURE: S.N. 043-3014
 A two span (2 @ 33'-0") steel girder bridge
 on closed abutments @ Sta. 13+47.09, 9.03' Lt.
 Skewed 0°. No Salvage.

BENCH MARK: Chis. "□" on the northwest wingwall
 of existing structure 23.64' Lt. @
 Sta. 13+79.39, El. 696.66

BILL OF MATERIAL - BRIDGE

Item	Unit	Sub	Super	Total
Channel Excavation	Cu. Yd.	551	—	551
* Porous Granular Embankment	Cu. Yd.	62	—	62
Stone Riprap, Class A5	Sq. Yd.	1,247	—	1,247
Filter Fabric	Sq. Yd.	1,066	—	1,066
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu. Yd.	85	—	85
Concrete Structures	Cu. Yd.	57.6	—	57.6
Bridge Deck Grooving	Sq. Yd.	—	309	309
Concrete Encasement	Cu. Yd.	4.2	—	4.2
Protective Coat	Sq. Yd.	—	327	327
* Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	—	2,922	2,922
Reinforcement Bars, Epoxy Coated	Pound	8,500	4,020	12,520
Steel Railing, Type SM	Foot	—	167	167
Furnishing Steel Piles HP 12x63	Foot	260	—	260
* Driving Piles	Foot	260	—	260
Test Pile Steel HP 12x63	Each	2	—	2
Name Plates	Each	1	—	1
* Concrete Wearing Surface, 5"	Sq. Yd.	—	324.7	324.7
* Grouted Riprap	Sq. Yd.	71	—	71



INDEX OF SHEETS

- 1.) General Plan & Elevation
- 2.) Riprap & Pile Layout
- 3.) Superstructure
- 4.) Superstructure Details
- 5.) 42"x48" PPC Deck Beam
- 6.) 42"x48" PPC Deck Beam Details
- 7.) Steel Railing, Type SM
- 8.) South Abutment
- 9.) North Abutment
- 10.) HP Pile Details
- 11-12.) Boring Logs

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications
 with 2008 and 2009 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" φ Low Lax Strands)
 fpbt = 201,960 psi (1/2" φ Low Lax Strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.033 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.075 g
 Soil Site Class = B

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut. Sta. 14+01.63 El. 696.00	E. Abut. Sta. 13+58.37 El. 696.00
	687.24	687.24

GENERAL NOTES

* See Special Provisions.

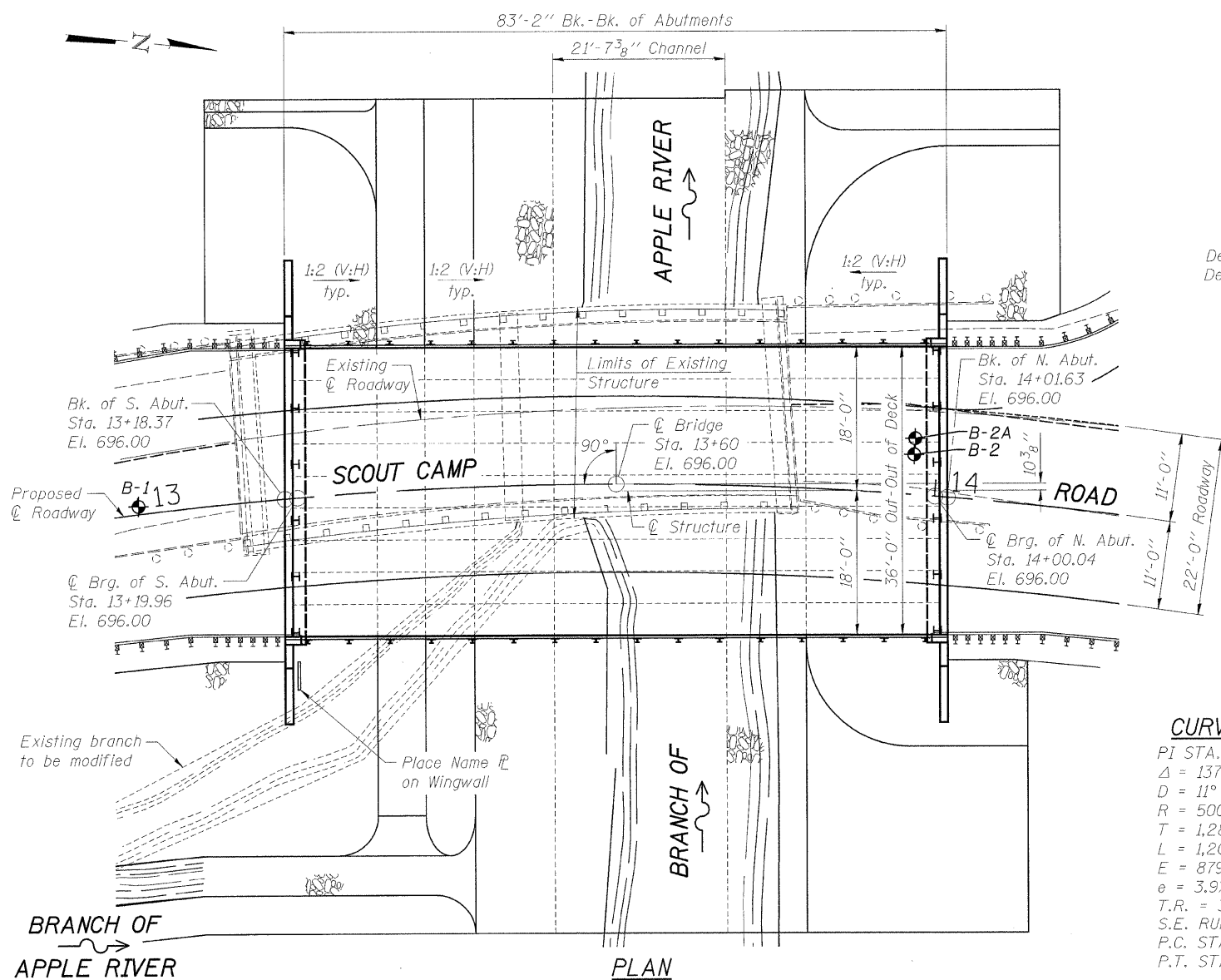
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

Channel to be transitioned to fit proposed structure inside Right of Way. Cost shall be included in price per Cubic Yard for Channel Excavation.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



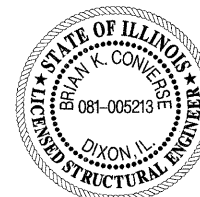
BRANCH OF APPLE RIVER
 BUILT 2010 BY
 JO DAVIESS COUNTY
 SECTION 09-00133-00-BR
 F.A.S. RTE. 73 STA. 13+60
 STR. NO. 043-3276 LOADING HL-93

NAME PLATE LETTERING

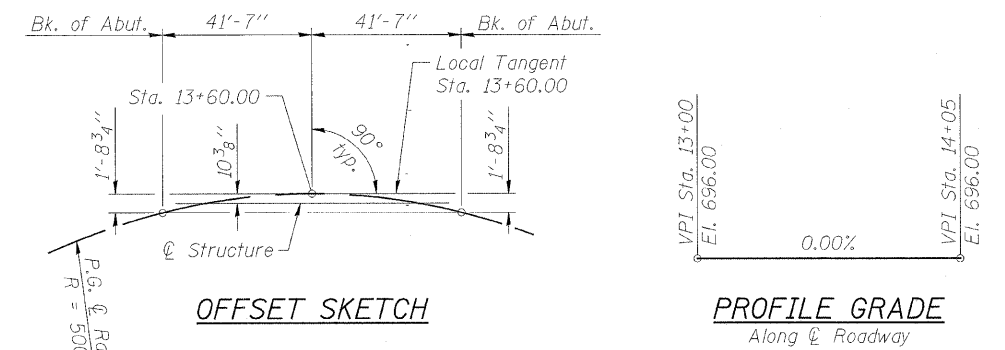
Refer To Std. 515001-03

CURVE DATA

PI STA. = 24+44.69
 Δ = 137° 30' 50" (Rt.)
 D = 11° 27' 33"
 R = 500.00'
 T = 1,286.21'
 L = 1,200.03'
 E = 879.98'
 e = 3.9%
 T.R. = 36'
 S.E. RUN = 69'
 P.C. STA = 11+58.48
 P.T. STA = 23+58.52



Brian K. Converse
 DATE: MAY 13th, 2010
 EXPIRES 11/30/10



WATERWAY INFORMATION

Drainage Area = 7.77 sq. mi. Low Grade Elev. 695.64 @ Sta. 15+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1,580	-	-	688.48	-0.25	-0.04	688.23	688.44
Base	20	2,000	348	360	689.01	-0.26	0.03	688.75	689.04
	100	3,100	417	438	690.05	-0.15	0.38	689.90	690.43

GENERAL PLAN & ELEVATION
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
 STATION 13+60 (S.N. 043-3276)
 SECTION 09-00133-00-BR
 JO DAVIESS COUNTY

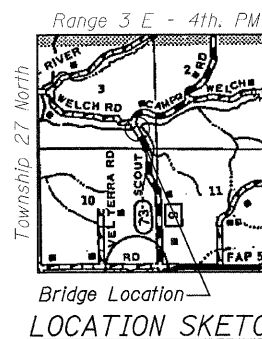
WHA JOB NUMBER 1169D09

WILLET, HOFMANN & ASSOCIATES, INC.
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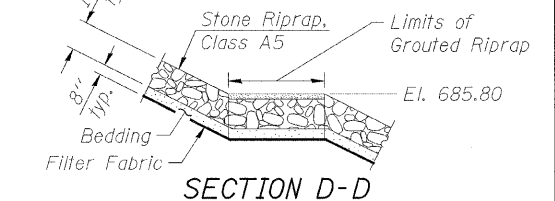
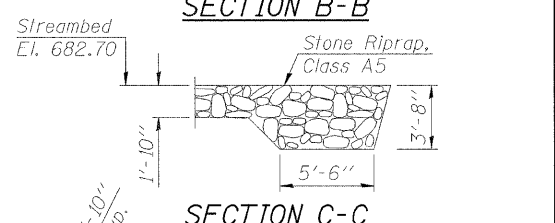
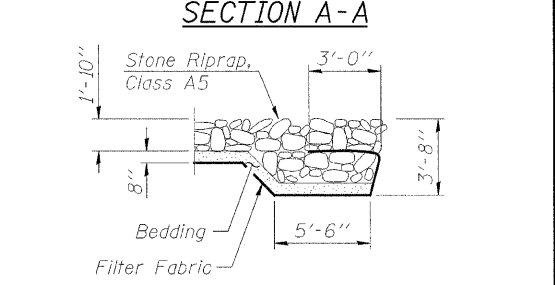
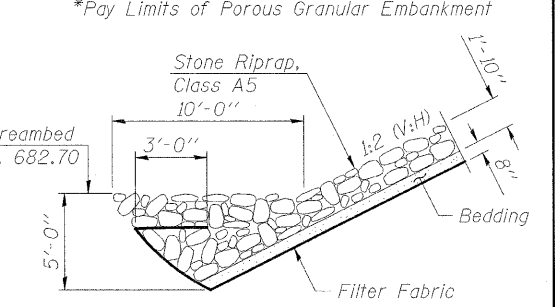
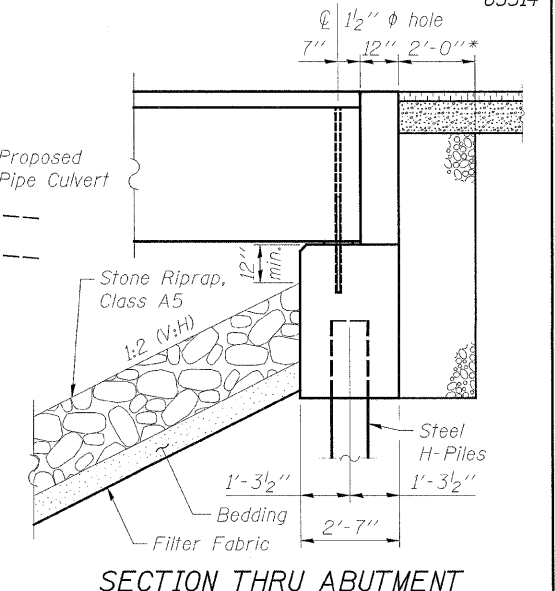
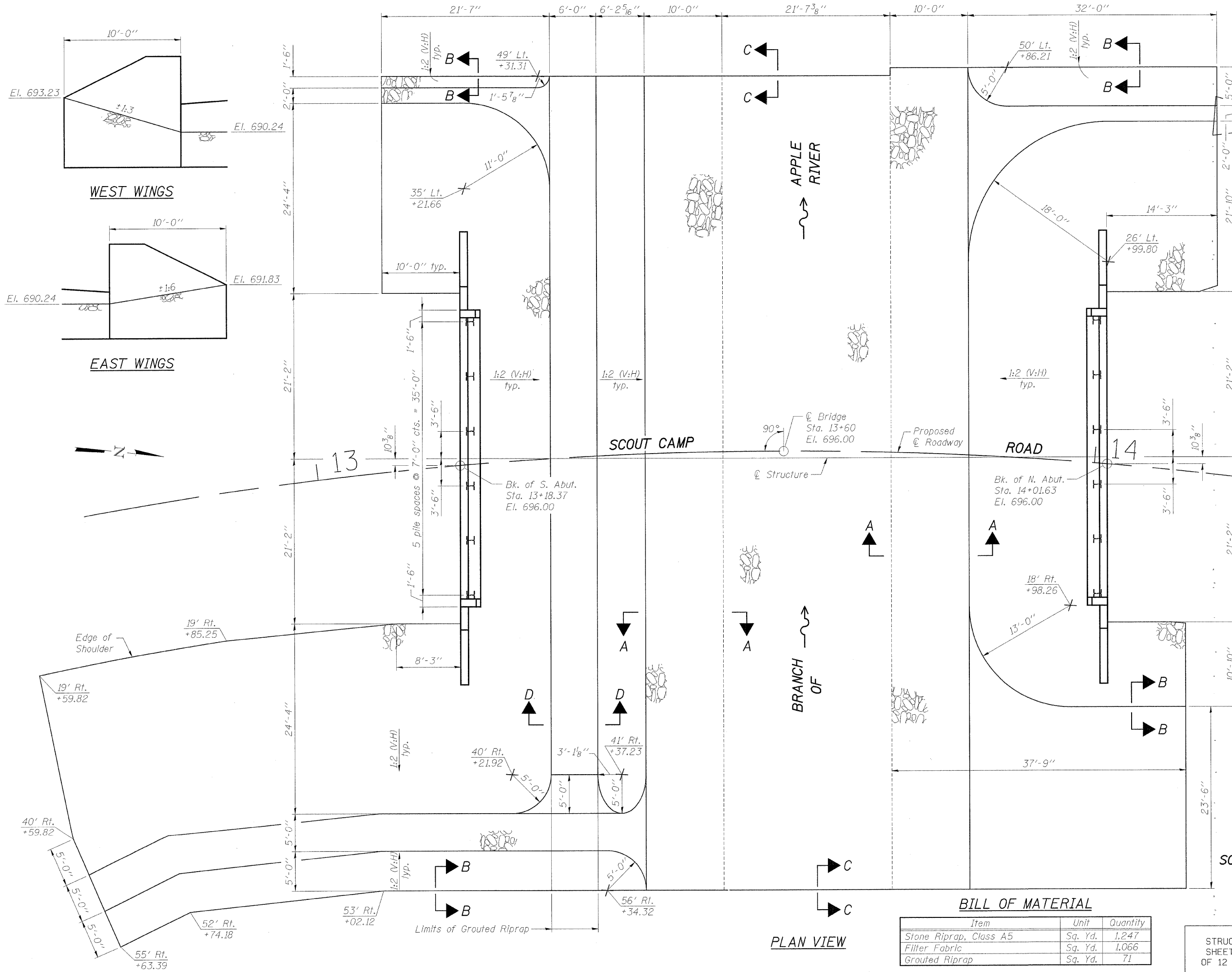
Designed By: M. C. Wagner Date: 3/10
 Checked By: B. K. Converse Date: 3/10
 Drawn By: R. D. Allen Date: 3/10

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	09-00133-00-BR	Jo Daviess	48	21

STRUCTURAL SHEET NO. 1 OF 12 SHEETS



"I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One Complies With Requirements Of The Current 'AASHTO Standard Specifications For Highway Bridges'."



STONE RIPRAP ANCHOR DETAILS

RIPRAP & PILE LAYOUT
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

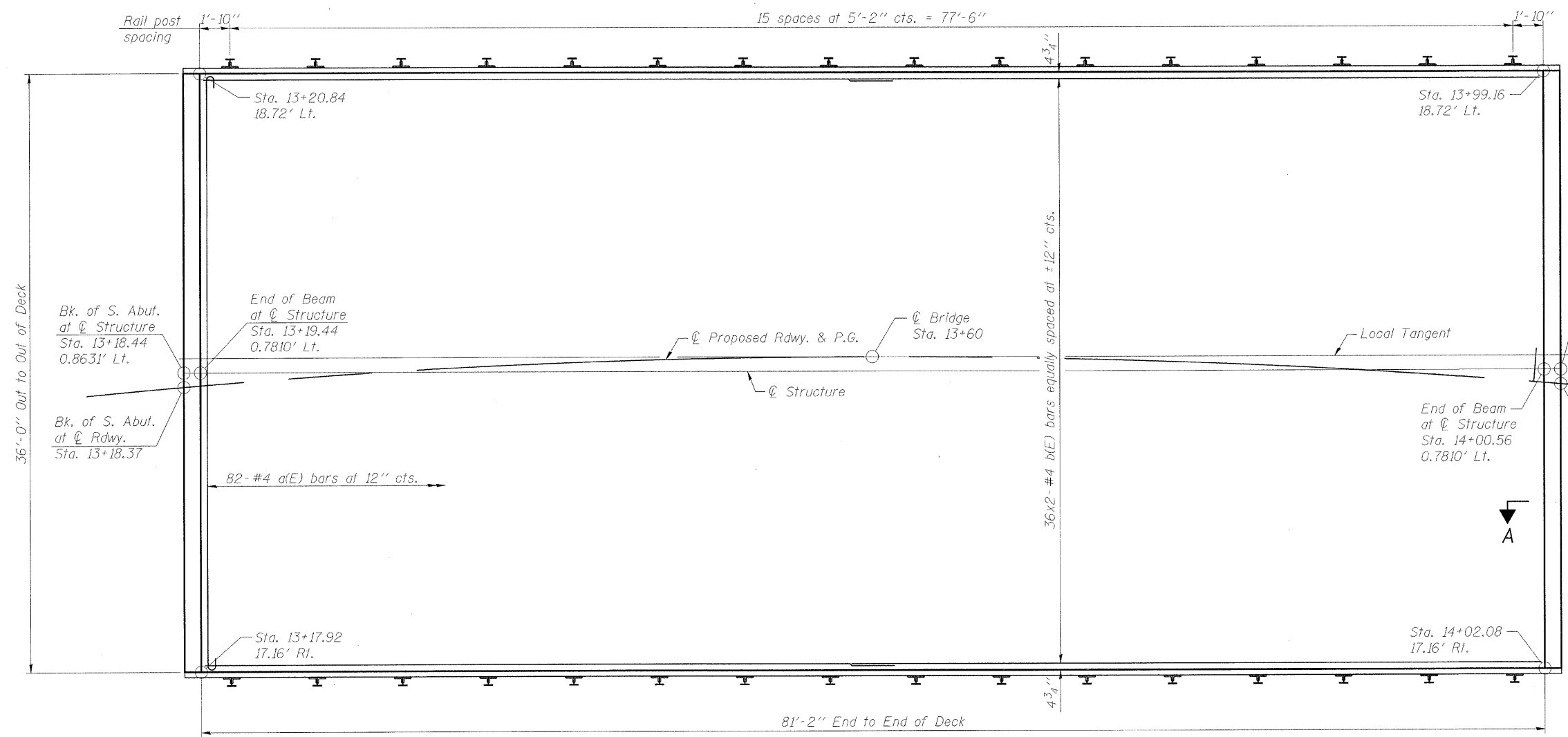
BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A5	Sq. Yd.	1,247
Filter Fabric	Sq. Yd.	1,066
Grouted Riprap	Sq. Yd.	71

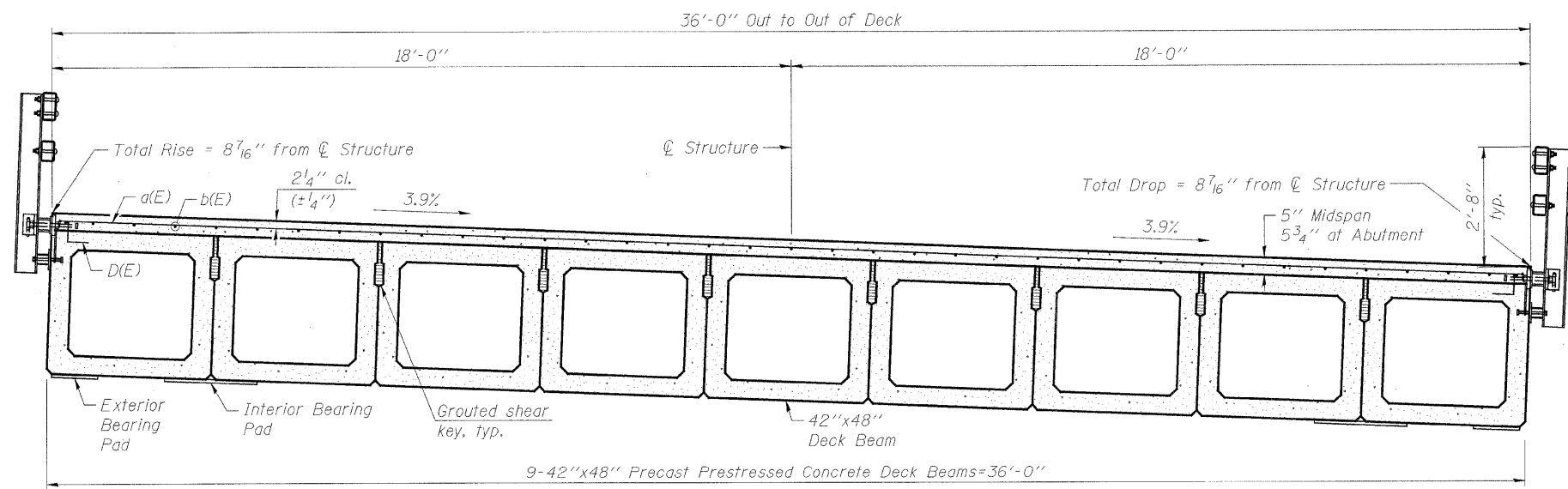
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 73	09-00133-00-BR	Jo Daviess	48	22

STRUCTURAL SHEET NO. 2 OF 12 SHEETS

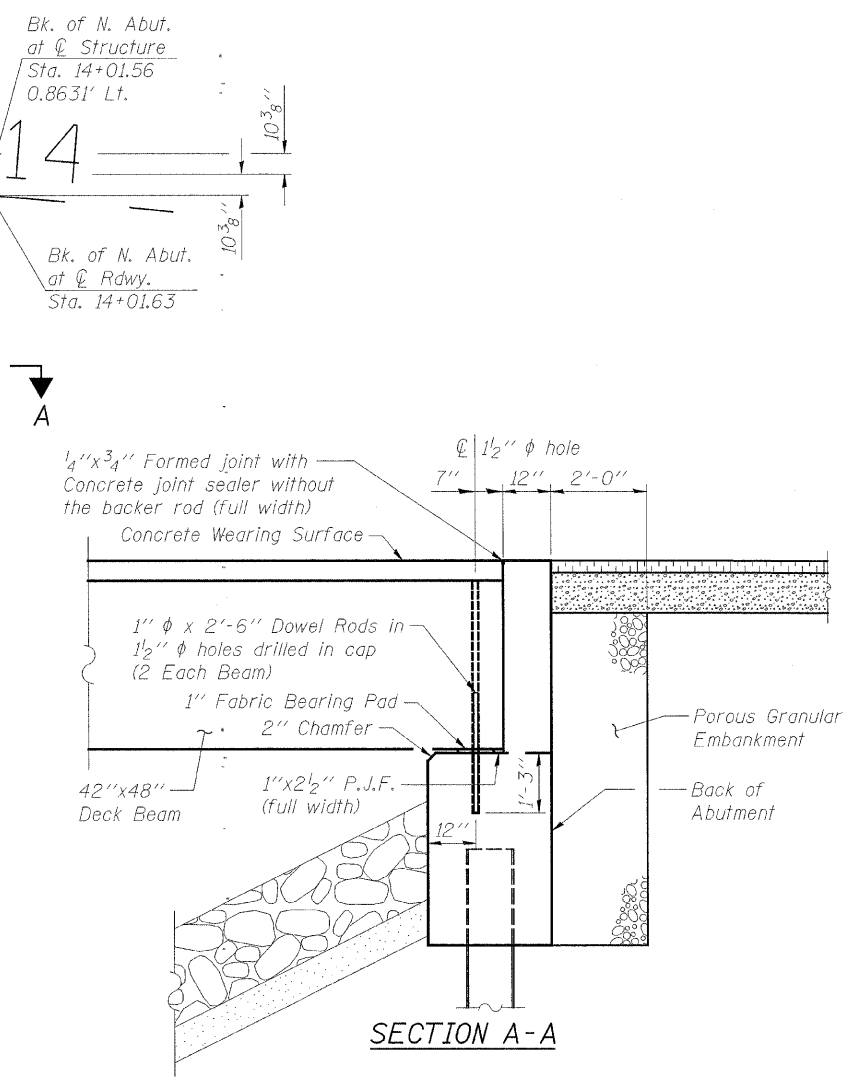
FILE NAME = s:\PROJECTS\2009\1169D09_JoDaviesCo_ScoutCamp\DESIGN\STRUCT\Drawings\1169_Riprap&Pile_Layout.dgn



PLAN



CROSS SECTION
(Looking North)



SECTION A-A

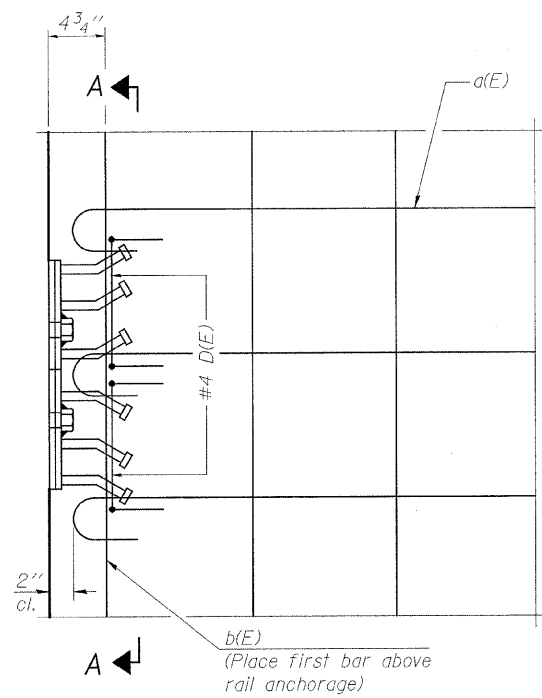
NOTES:
 See Structural Sheet 4 of 12 for Superstructure Details and Bill of Material.
 See Structural Sheet 6 of 12 for fabric bearing pad details.
 Bars indicated thus 36x2-#4 etc. indicates 36 lines of bars with 2 lengths per line.
 Concrete wearing surface shall be placed prior to casting the backwalls.

SUPERSTRUCTURE
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

MINIMUM BAR LAP
 #4 bar = 2'-7"

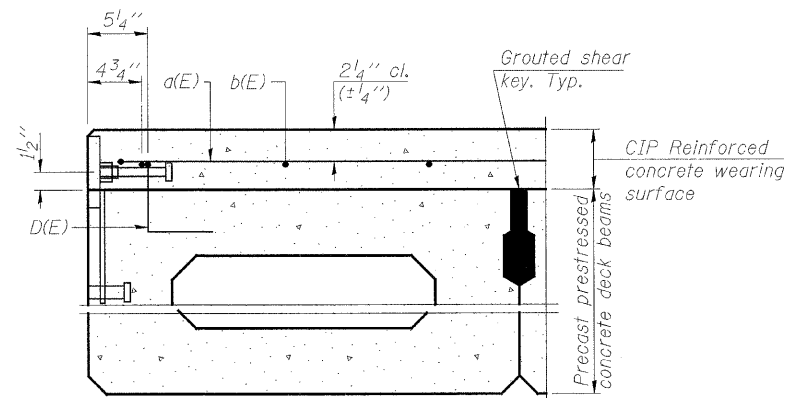
STRUCTURAL SHEET NO. 3 OF 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	F.A.S. 73	09-00133-00-BR	Jo Daviess	48	23
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

FILE NAME = s:\PROJECTS\2009\1169D09\Job\essco\scoutcamp\RA\DESIGN\STRUCT\Drawings\1169_Superstructure.dgn

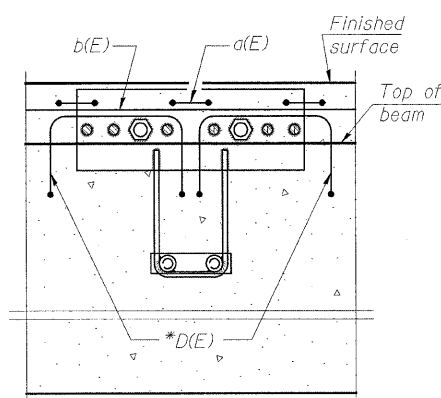


PLAN

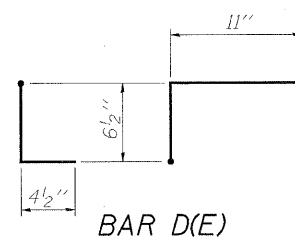
Note:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

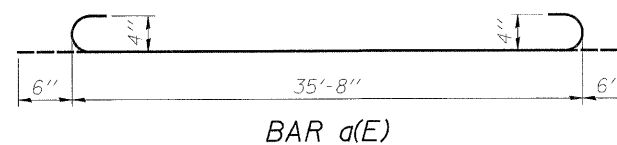


SECTION A-A

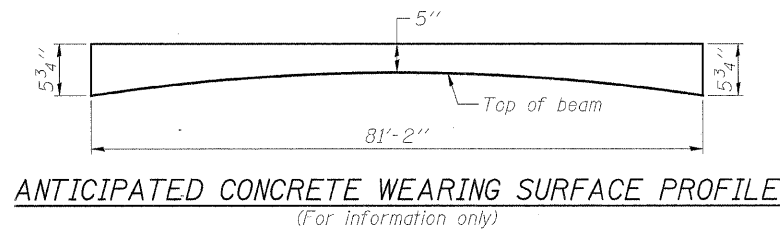


BAR D(E)

* Place 2- #4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



**SUPERSTRUCTURE
BILL OF MATERIAL**

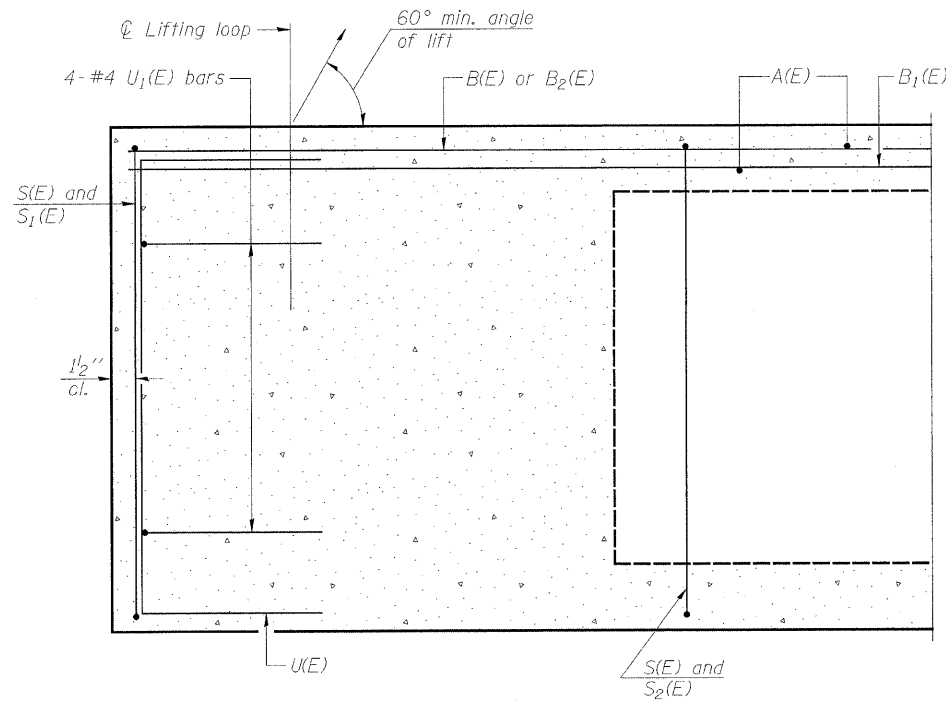
Bar	No.	Size	Length	Shape
a(E)	82	#4	36'-8"	
b(E)	72	#4	41'-10"	
Reinforcement Bars, Epoxy Coated			Pound	4,020
Concrete Wearing Surface, 5"			Sq. Yd.	324.7

**SUPERSTRUCTURE DETAILS
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
WHA # 1169D09**

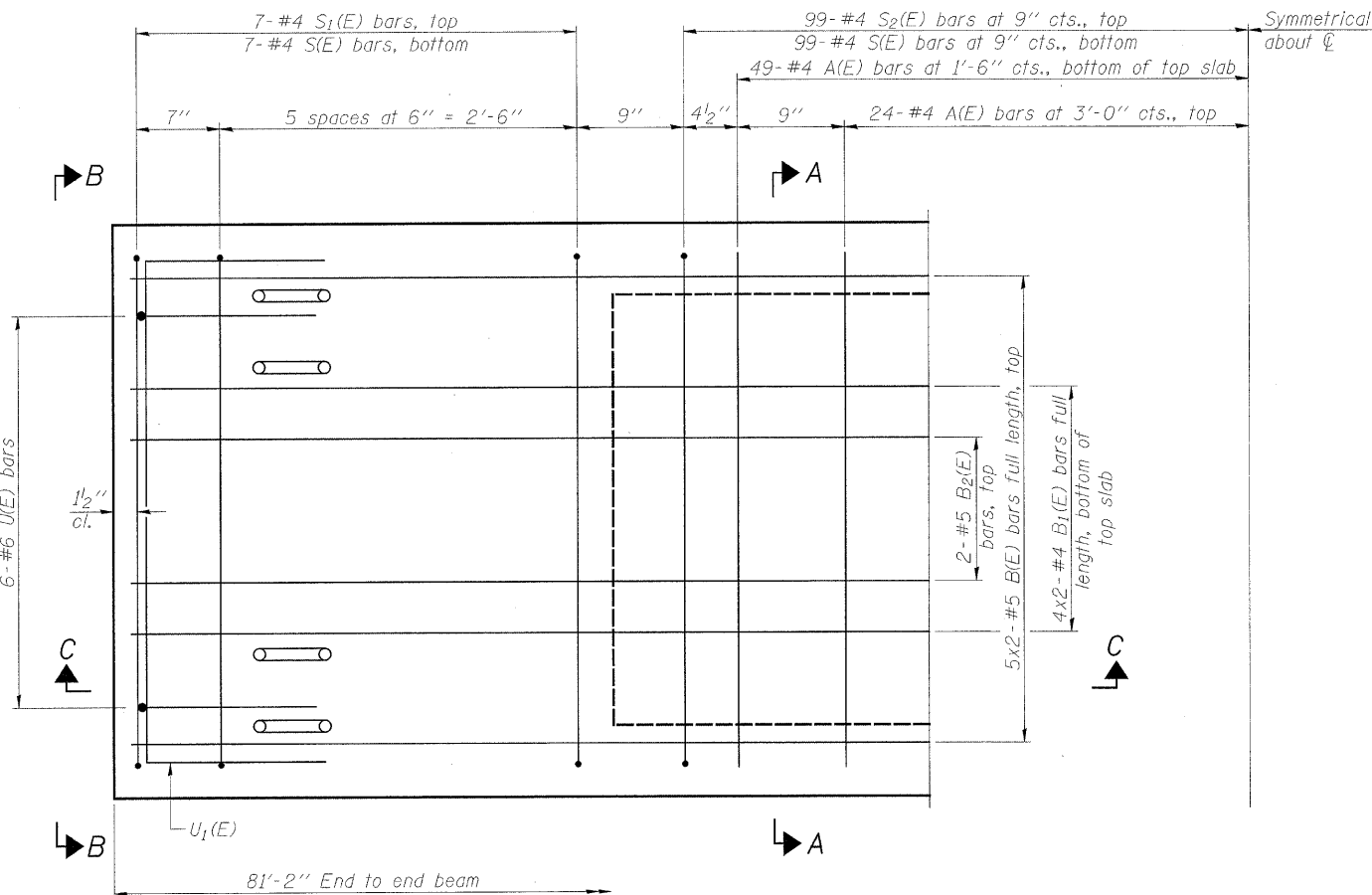
MINIMUM BAR LAP
#4 bar = 2'-7"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 73	09-00133-00-BR	Jo Daviess	48	24
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

STRUCTURAL SHEET NO. 4 OF 12 SHEETS

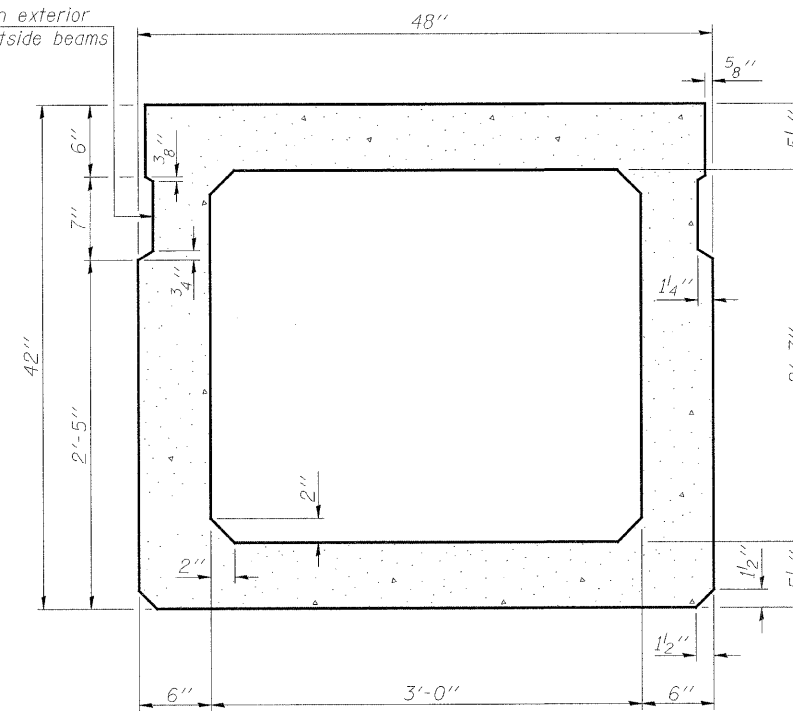


SECTION C-C

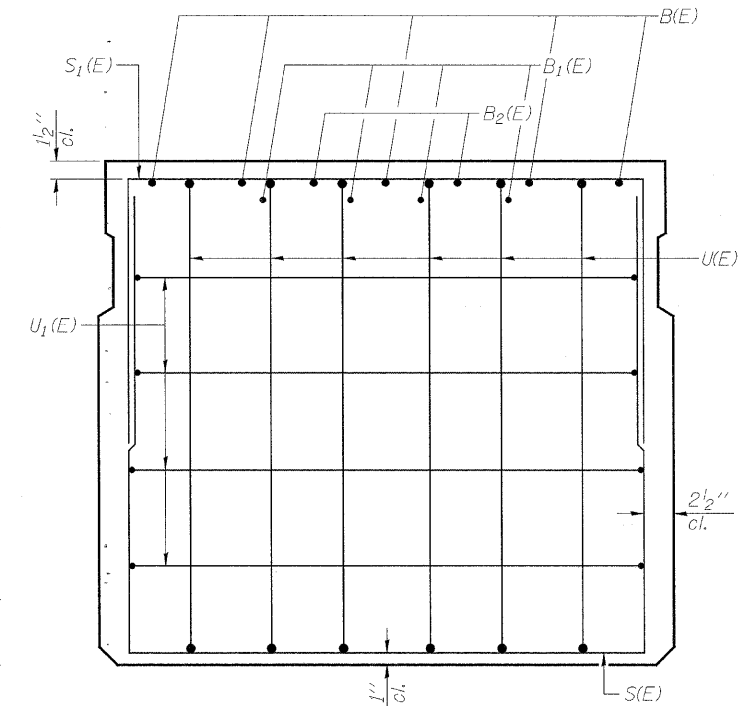


PLAN VIEW

Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)



VIEW B-B

BAR LIST
ONE BEAM ONLY
(For information only)

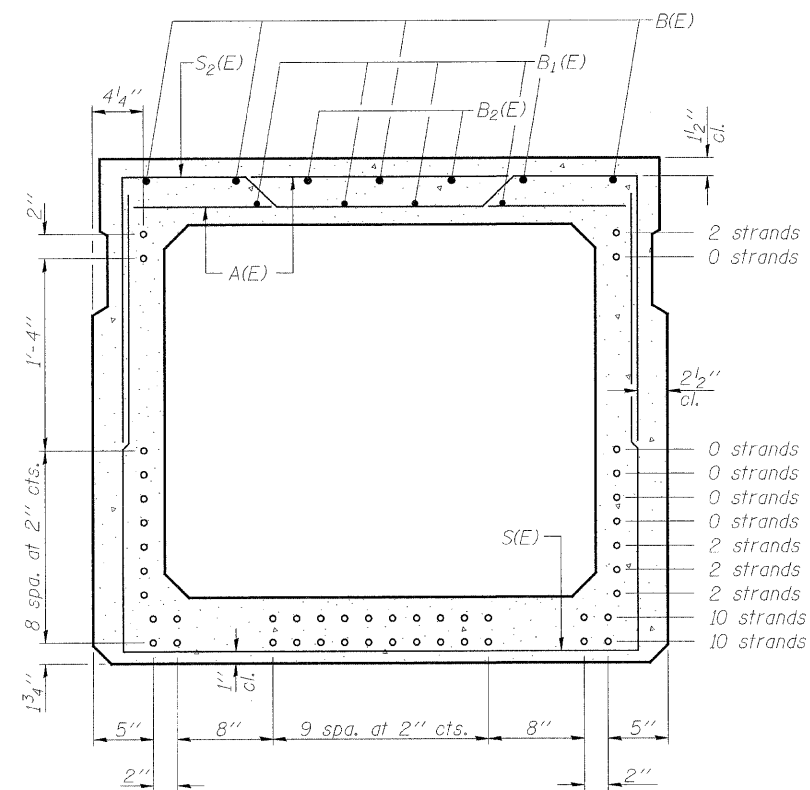
Bar	No.	Size	Length	Shape
A(E)	73	#4	3'-7"	—
B(E)	10	#5	41'-10"	—
B1(E)	8	#4	41'-6"	—
B2(E)	4	#5	10'-0"	—
S(E)	113	#4	9'-11"	┌┐
S1(E)	14	#4	7'-3"	┌┐
S2(E)	99	#4	7'-6"	┌┐
U(E)	12	#6	5'-9"	┌┐
U1(E)	8	#4	6'-0"	┌┐

NOTES:

See Structural Sheet 6 of 12 for additional details and Bill of Material.

Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.



SECTION A-A
(Showing reinforcement and permissible strand locations)

Note:

Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

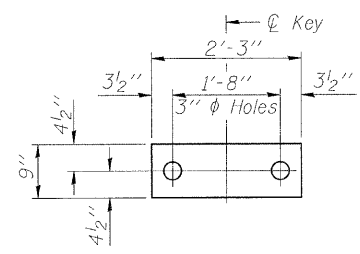
MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

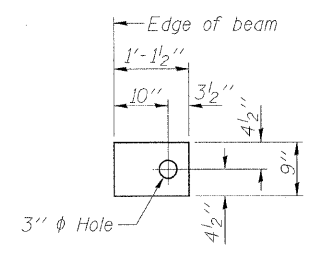
42" X 48" PPC DECK BEAM
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
WHA # 1169D09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	09-00133-00-BR	Jo Daviess	48	25

STRUCTURAL SHEET NO. 5 OF 12 SHEETS

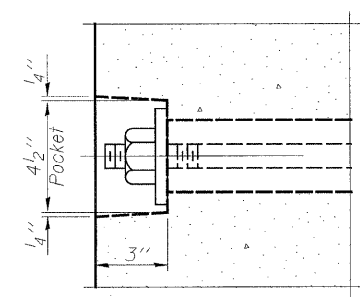


FABRIC BEARING PAD
(Interior)

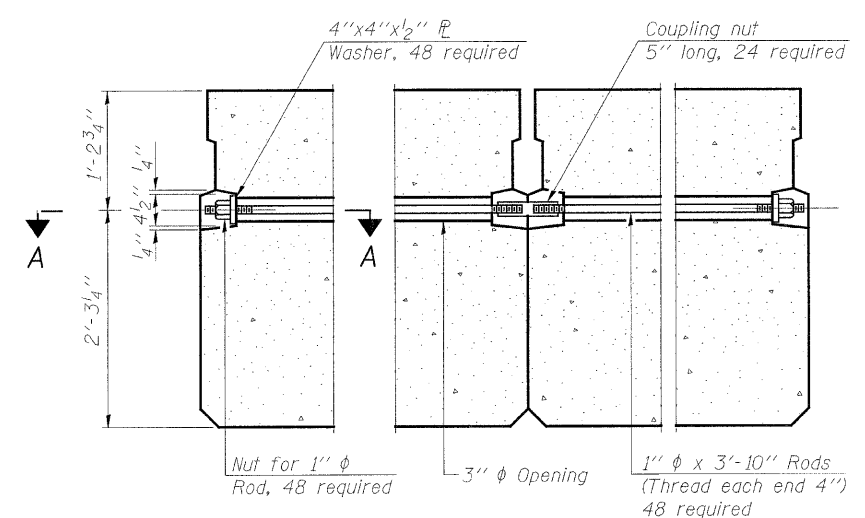


FABRIC BEARING PAD
(Exterior)

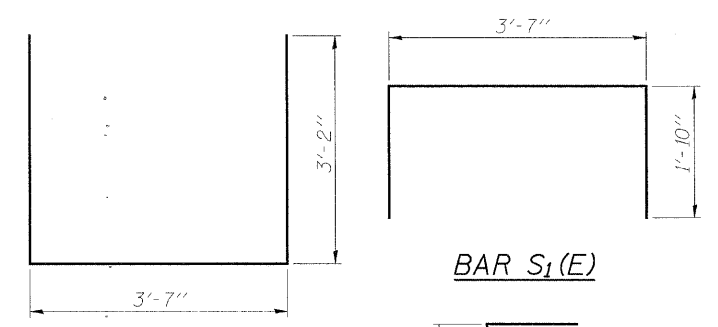
FIXED
All bearing pads shall be 1" thick.



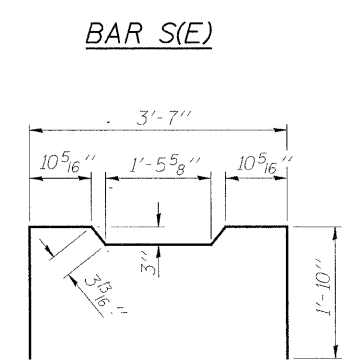
SECTION A-A



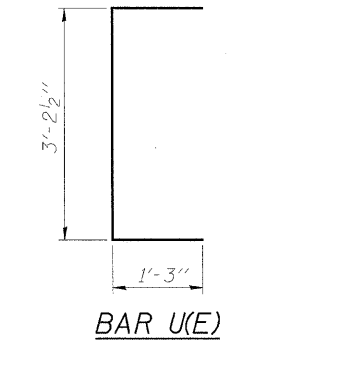
TYPICAL TRANSVERSE TIE ASSEMBLY



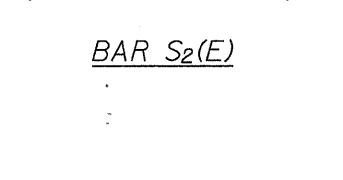
BAR S₁(E)



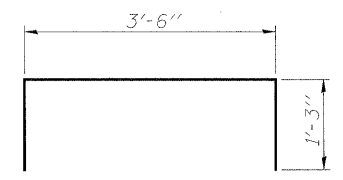
BAR S(E)



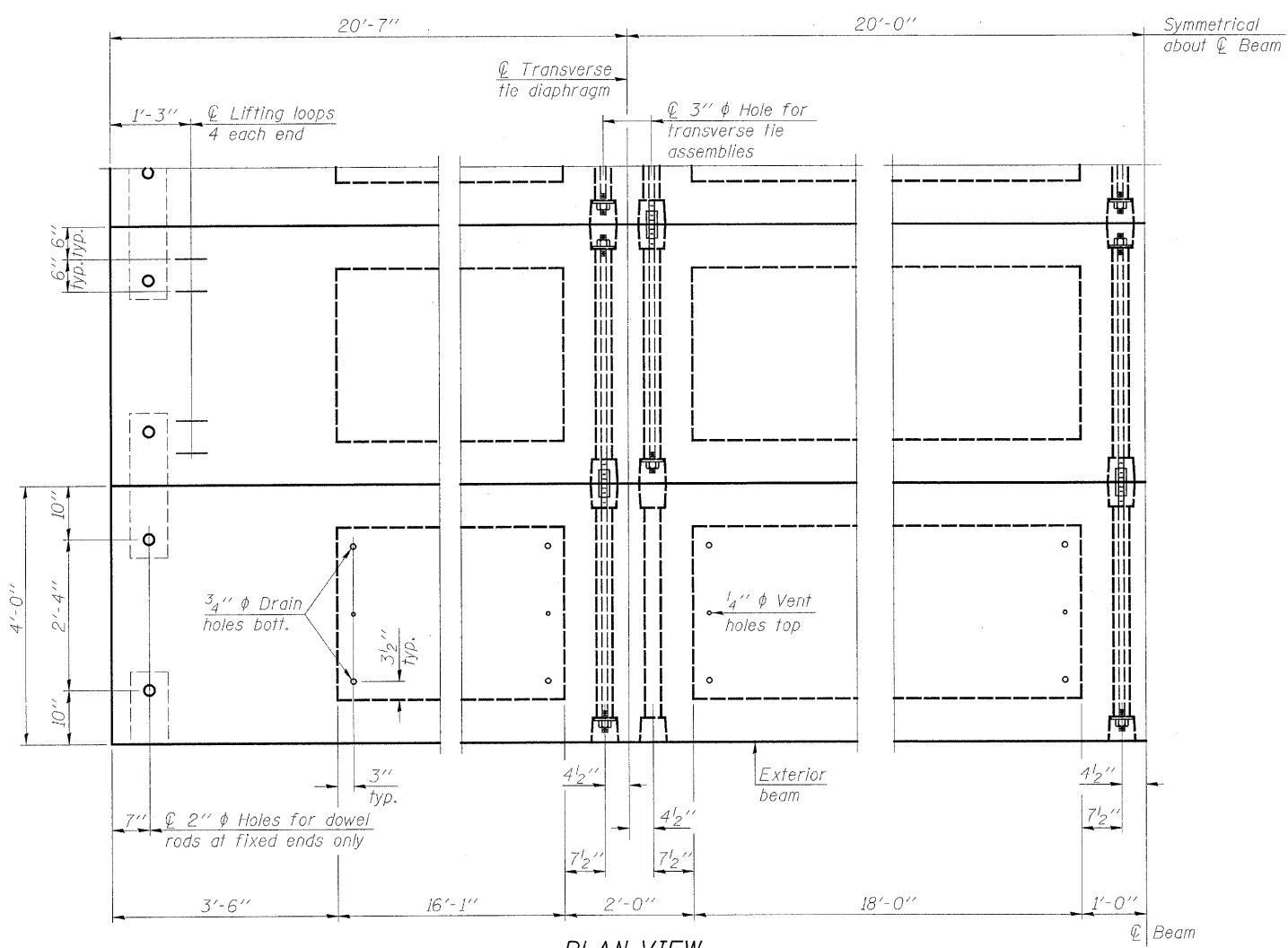
BAR U(E)



BAR S₂(E)



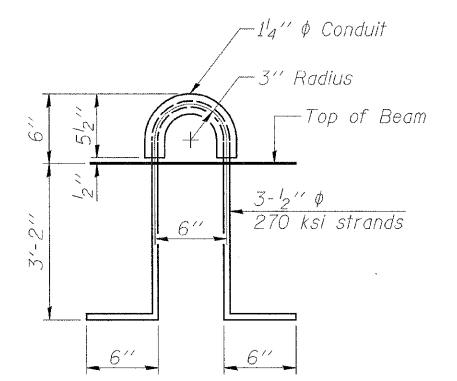
BAR U₁(E)



PLAN VIEW

Notes:
Connect beams in pairs with the transverse tie configuration shown.
Unused transverse tie hole on exterior beam can be omitted.

NOTES:
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6,000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5,000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

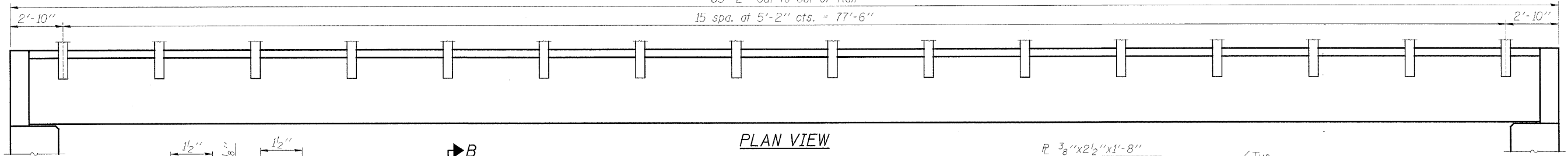
Item	Unit	Quantity
Precast, Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2,922

42" X 48" PPC DECK BEAM DETAILS
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
WHA # 1169D09

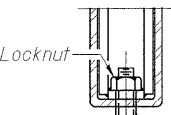
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	09-00133-00-BR	Jo Daviess	48	26

FILE NAME = s:\PROJECTS\2009\1169D09\JoDavessCo-ScoutCampRA\DESIGN\STRUCT\Drawings\1169D09_Deck_Beam_Detail.dwg

83'-2" Out to Out of Rail
15 spa. at 5'-2" cts. = 77'-6"

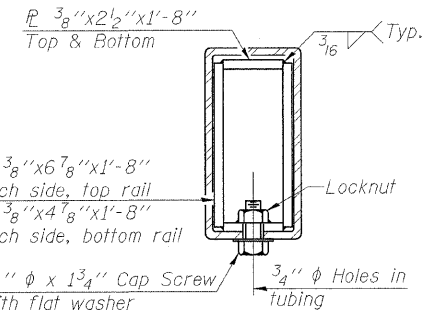


PLAN VIEW



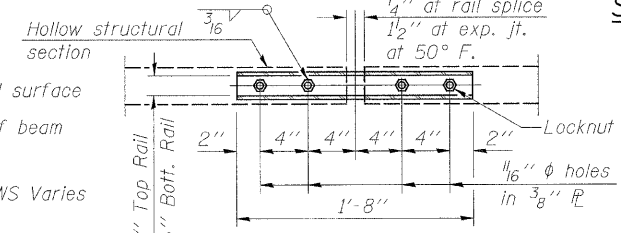
Locknut
1/8" x 2 1/2" Slotted Holes in hollow structural section
5/8" φ x 1 3/4" Cap Screw with flat washer & 3/4" φ XS pipe spacer, 1/2" long

RAIL SPLICE CONNECTION AT EXPANSION JT.



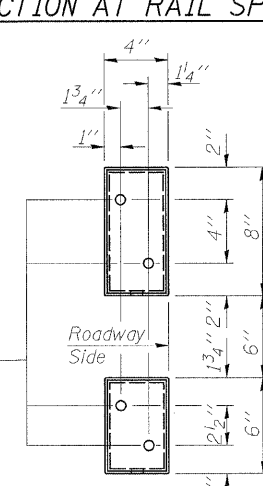
3/8" x 2 1/2" x 1'-8" Top & Bottom
3/16" Typ.
3/8" x 6 7/8" x 1'-8" Each side, top rail
3/8" x 4 7/8" x 1'-8" Each side, bottom rail
5/8" φ x 1 3/4" Cap Screw with flat washer
3/4" φ Holes in tubing

SECTION AT RAIL SPLICE

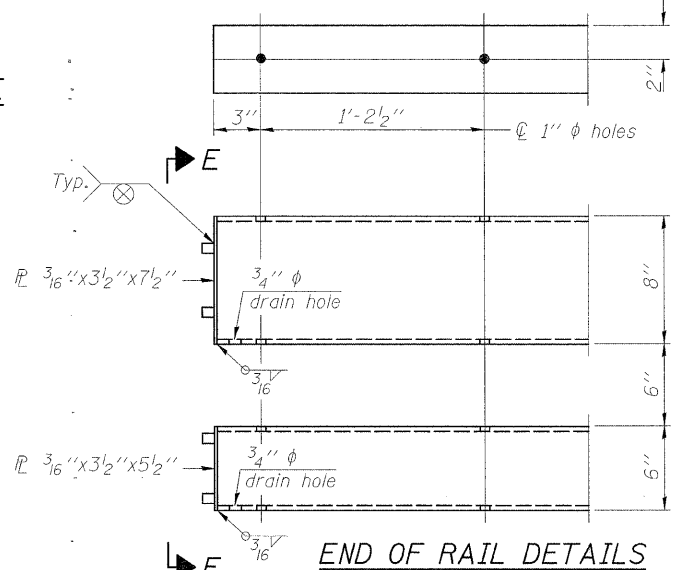


PLAN-BOTT. SPLICE R TYPICAL

Hollow structural section
1/4" at rail splice
1/2" at exp. jt. at 50° F.
Locknut
1/16" φ holes in 3/8" R
2 1/2" Top Rail
2 3/8" Bott. Rail



VIEW E-E



END OF RAIL DETAILS

NOTES:

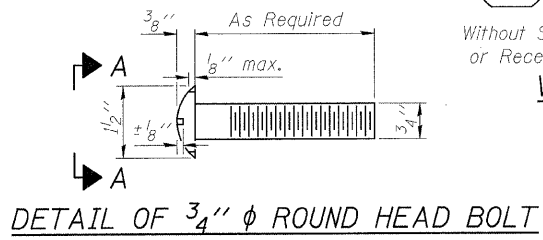
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- For multi-span bridges, sufficient 1/4"x6"x1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
- Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

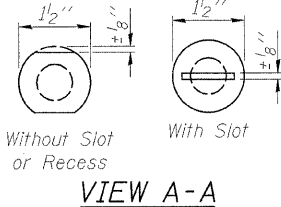
Item	Unit	Quantity
Steel Railing, Type SM	Foot	167

STEEL RAILING, TYPE SM
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
WHA # 1169D09

ROUTE NO.	SECTION	COUNTY	JOIN SHEETS	SHEET NO.
F.A.S. 73	09-00133-00-BR	Jo Daviess	48	27

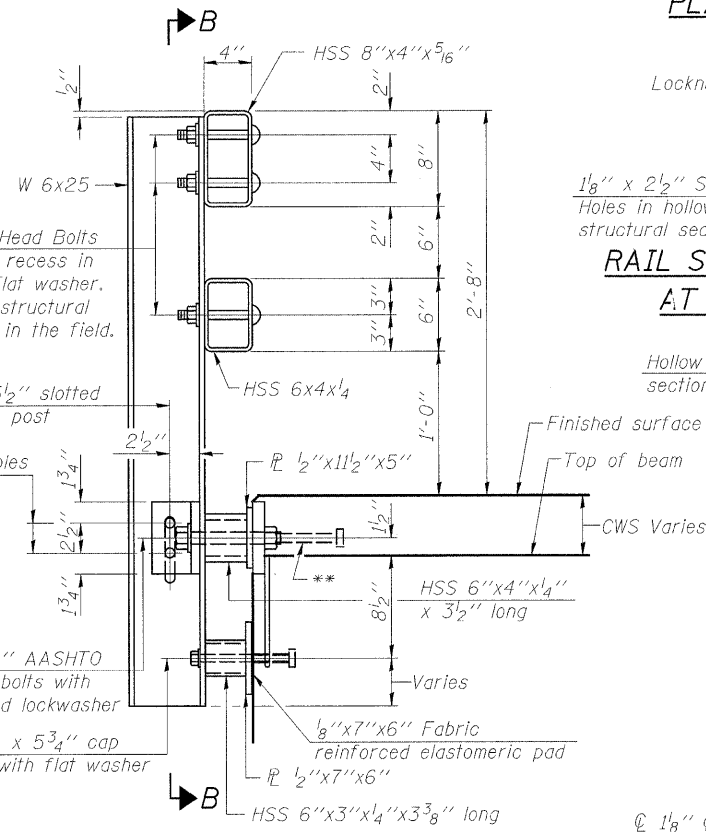


DETAIL OF 3/4" φ ROUND HEAD BOLT



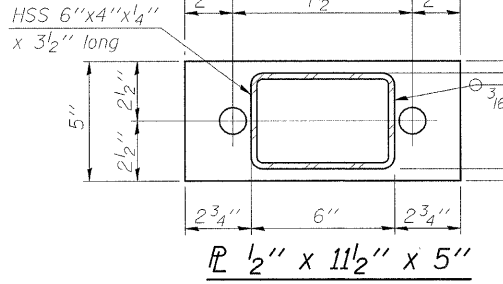
VIEW A-A

4-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" φ holes in hollow structural section may be drilled in the field.

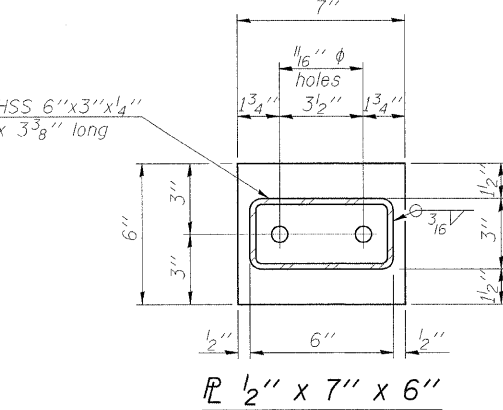


SECTION AT RAIL POST

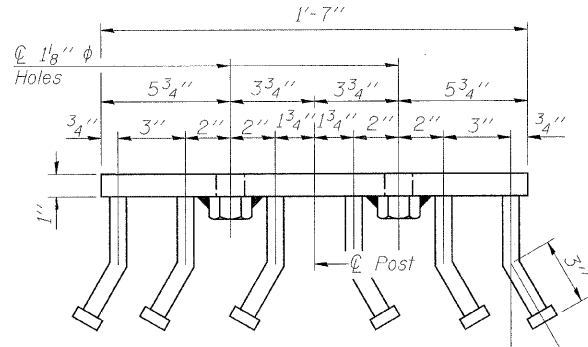
HSS 8"x4"x5/16"
W 6x25
HSS 6x4x4
R 1/2"x11 1/2"x5"
Finished surface
Top of beam
CWS Varies
HSS 6"x4"x1/4" x 3 1/2" long
Varies
HSS 6"x3"x1/4"x3 3/8" long
1 3/16" x 5 1/2" slotted hole in post
1 3/16" φ holes in angles
2-1" φ x 7 3/4" AASHTO M-164 anchor bolts with flat washer and lockwasher
2-5/8" φ x 5 3/4" cap screws with flat washer
1/8"x7"x6" Fabric reinforced elastomeric pad
R 1/2"x7"x6"



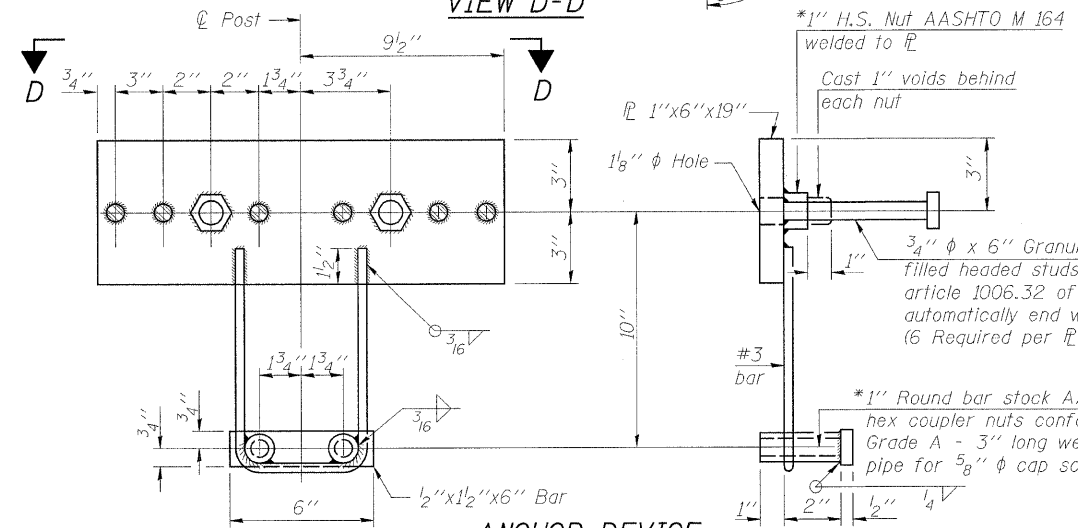
SECTION AT RAIL POST



SECTION AT RAIL POST

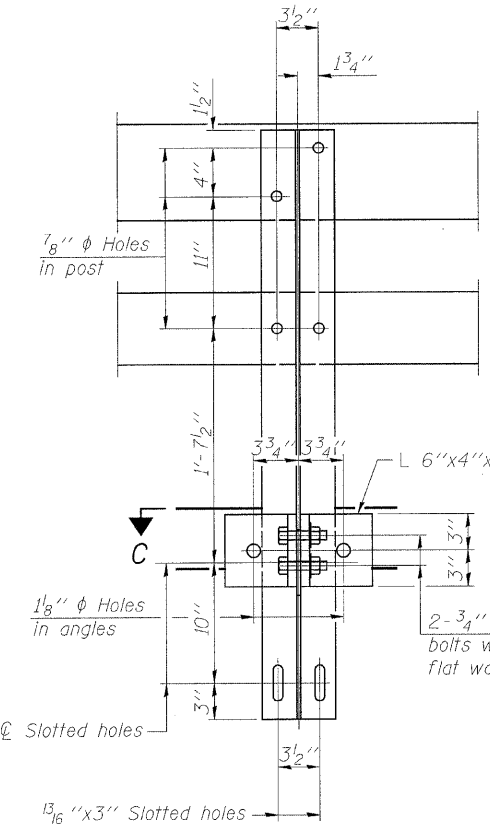


VIEW D-D

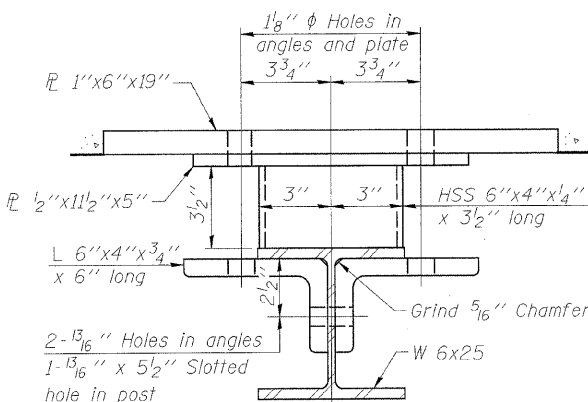


ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

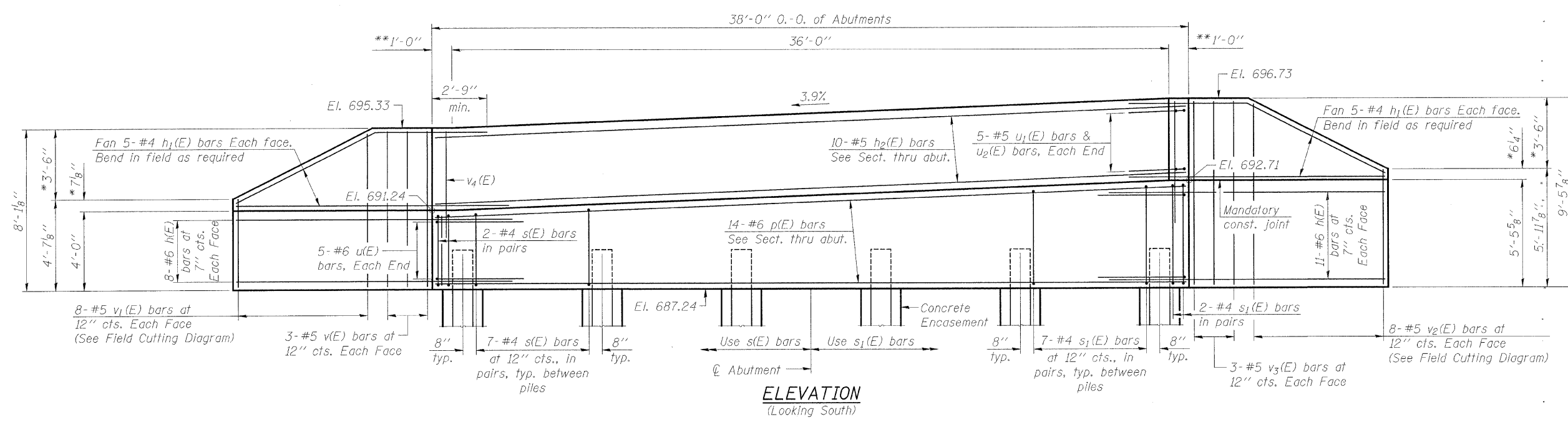


SECTION B-B

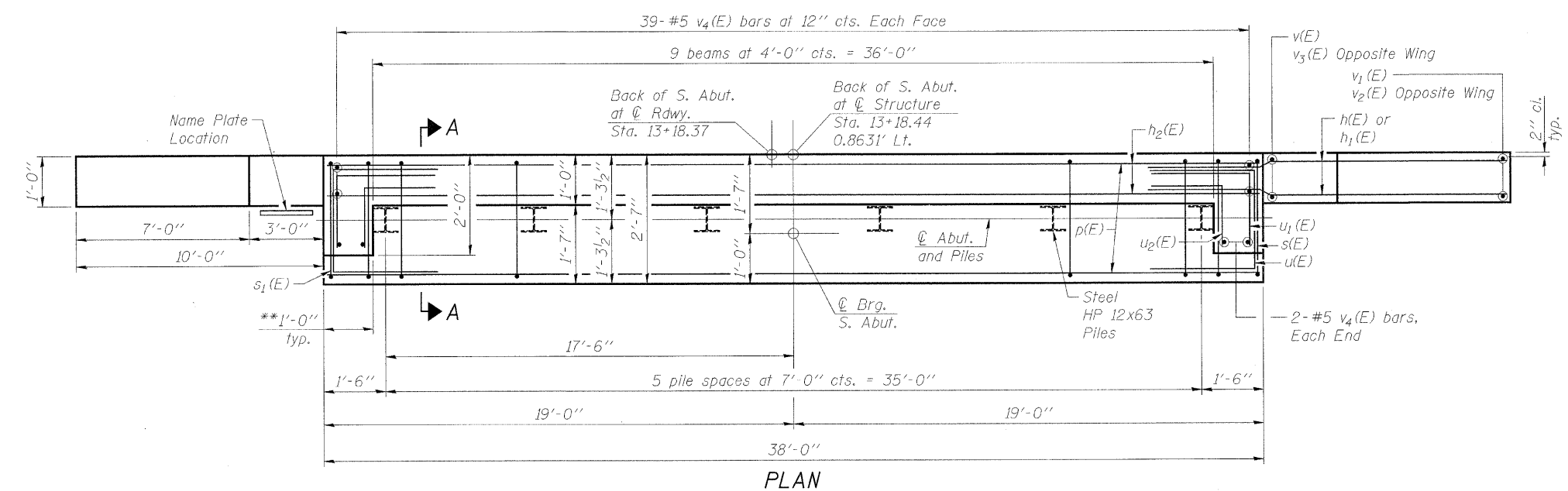


SECTION C-C

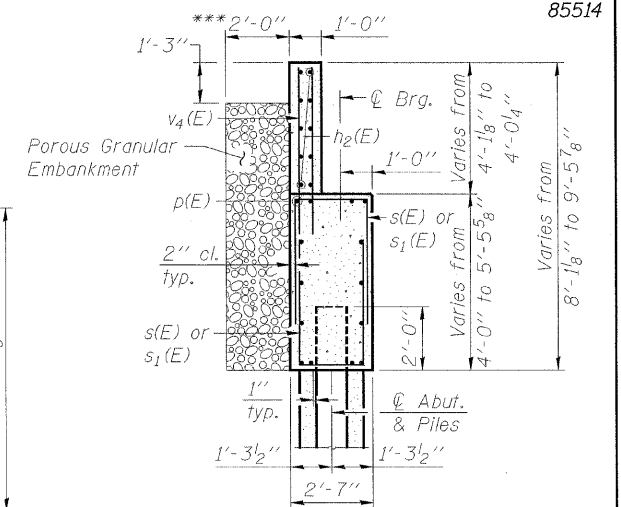
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ELEVATION
(Looking South)



PLAN



SECTION A-A
BILL OF MATERIAL
(SOUTH ABUTMENT ONLY)

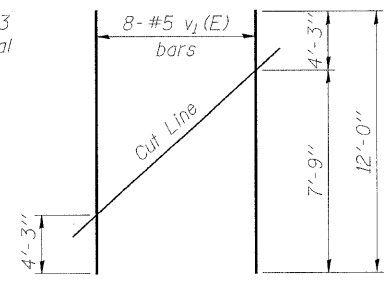
Bar	No.	Size	Length	Shape
h(E)	38	#6	13'-10"	—
h1(E)	28	#4	13'-9"	—
h2(E)	10	#5	37'-8"	—
p(E)	14	#6	37'-8"	—
s(E)	38	#4	9'-7"	□
s1(E)	40	#4	10'-1"	□
u(E)	10	#6	9'-10"	—
u1(E)	10	#5	3'-8"	—
u2(E)	10	#5	3'-0"	—
v(E)	6	#5	7'-9"	—
v1(E)	8	#5	12'-0"	—
v2(E)	8	#5	14'-8"	—
v3(E)	6	#5	9'-1"	—
v4(E)	82	#5	6'-0"	—
Porous Granular Embankment		Cu. Yd.	31	
Concrete Structures		Cu. Yd.	28.8	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	4,250	
Furnishing Steel Piles HP 12x63		Foot	110	
Driving Piles		Foot	110	
Test Pile Steel HP 12x63		Each	1	
Name Plate		Each	1	

NOTES:

- * Top portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
 - ** May vary due to over run of beams.
 - *** Pay limits of Porous Granular Embankment.
- For details of piles and concrete encasement, see Structural Sheet 10 of 12. Cast backwall after beams and concrete wearing surface have been erected. All exposed edges shall have standard 3/4" chamfers, except as noted. Space reinforcement in cap to miss dowel rods. See Section A-A. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.

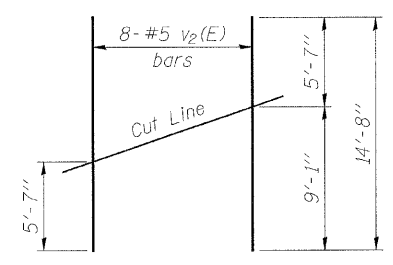
PILE DATA

Type: Steel-HP 12x63
 Nominal Required Bearing: Drive to refusal
 Factored Resistance Available: ... 251
 Est. Length: 22'
 No. Production Piles: 5
 No. Test Piles: 1



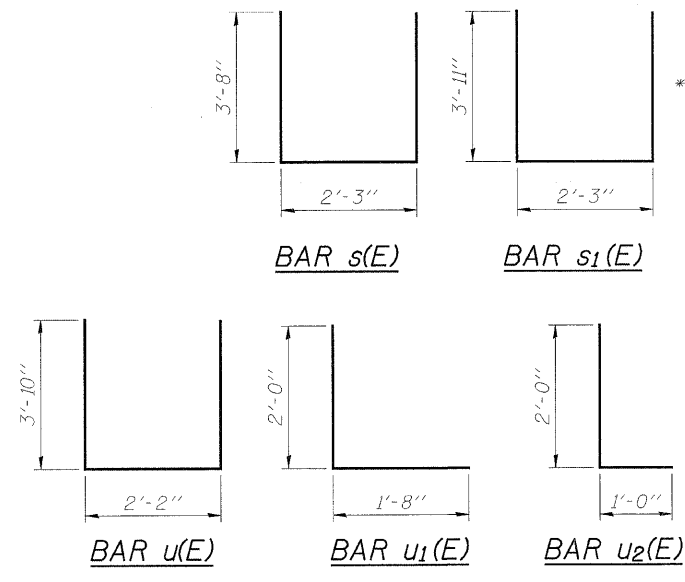
FIELD CUTTING DIAGRAM

Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face.



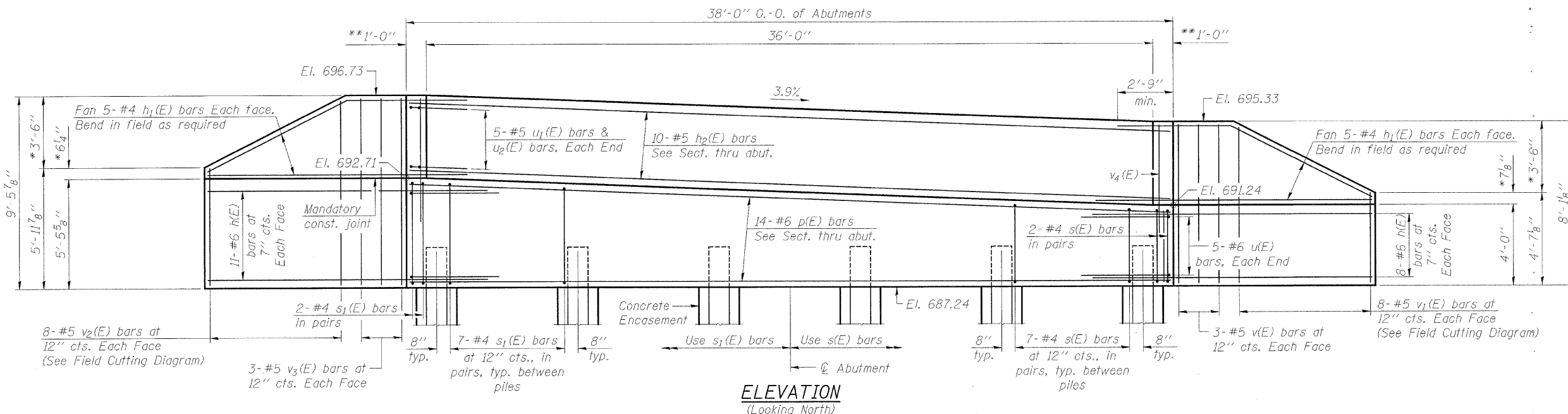
FIELD CUTTING DIAGRAM

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

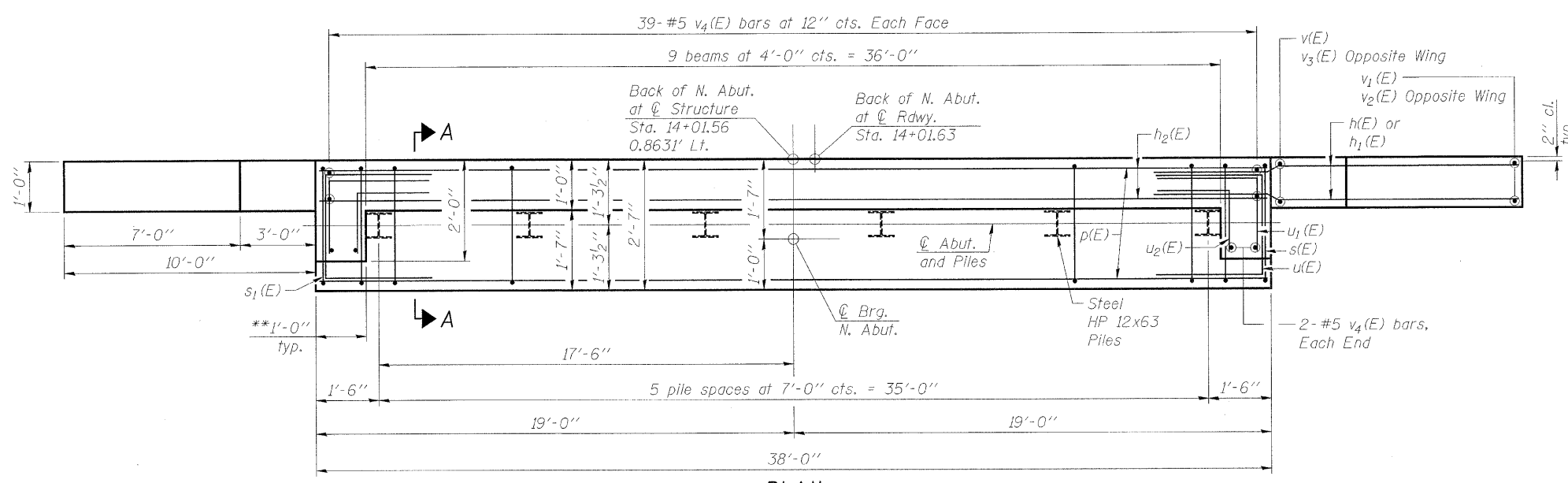


SOUTH ABUTMENT
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

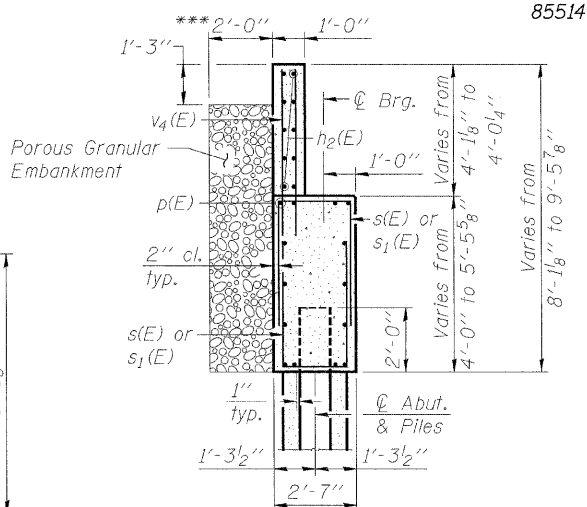
ROUTE	SECTION	COUNTY	SHEETS	SHEET
73	09-00133-00-BR	Jo Daviess	48	28
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	



ELEVATION
(Looking North)



PLAN



SECTION A-A
BILL OF MATERIAL
(NORTH ABUTMENT ONLY)

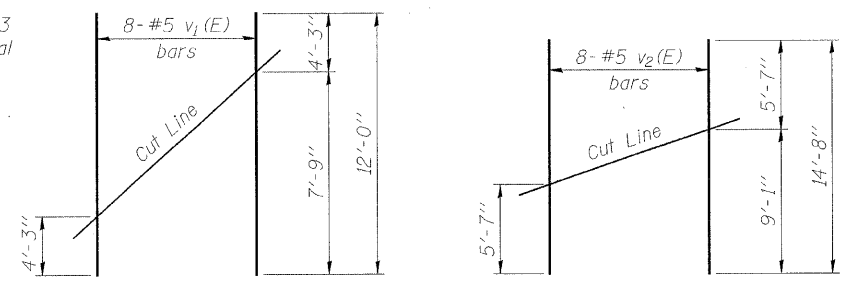
Bar	No.	Size	Length	Shape
h(E)	38	#6	13'-10"	—
h1(E)	28	#4	13'-9"	—
h2(E)	10	#5	37'-8"	—
p(E)	14	#6	37'-8"	—
s(E)	38	#4	9'-7"	⊓
s1(E)	40	#4	10'-1"	⊓
u(E)	10	#6	9'-10"	⊓
u1(E)	10	#5	3'-8"	⊓
u2(E)	10	#5	3'-0"	⊓
v(E)	6	#5	7'-9"	—
v1(E)	8	#5	12'-0"	—
v2(E)	8	#5	14'-8"	—
v3(E)	6	#5	9'-1"	—
v4(E)	82	#5	6'-0"	—
Porous Granular Embankment		Cu. Yd.	31	
Structure Excavation		Cu. Yd.	85	
Concrete Structures		Cu. Yd.	28.8	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	4,250	
Furnishing Steel Piles HP 12x63		Foot	150	
Driving Piles		Foot	150	
Test Pile Steel HP 12x63		Each	1	

NOTES:

- * Top portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
- ** May vary due to over run of beams.
- *** Pay limits of Porous Granular Embankment.
- For details of piles and concrete encasement, see Structural Sheet 10 of 12. Cast backwall after beams and concrete wearing surface have been erected. All exposed edges shall have standard 3/4" chamfers, except as noted. Space reinforcement in cap to miss dowel rods. See Section A-A.
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.

PILE DATA

Type: Steel-HP 12x63
 Nominal Required Bearing: Drive to refusal
 Factored Resistance Available: ... 251
 Est. Length: 30'
 No. Production Piles: 5
 No. Test Piles: 1

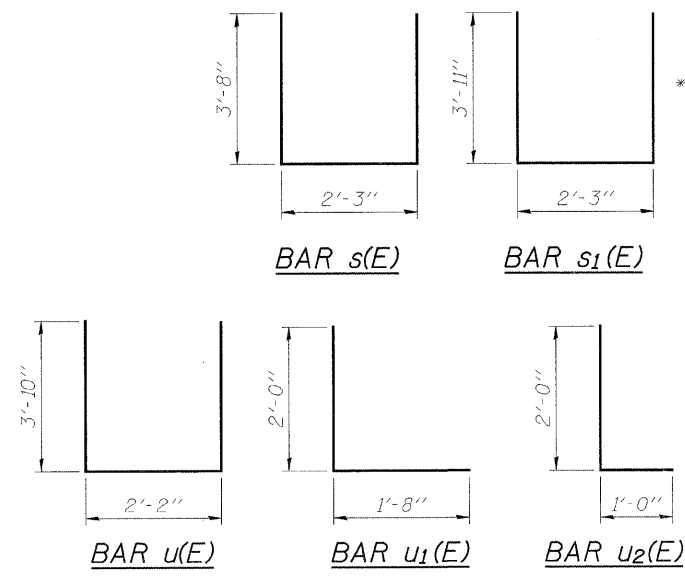


FIELD CUTTING DIAGRAM

Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face.

FIELD CUTTING DIAGRAM

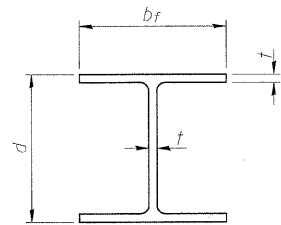
Order v2(E) bars full length. Cut as shown and use remainder of bars in opposite face.



NORTH ABUTMENT
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

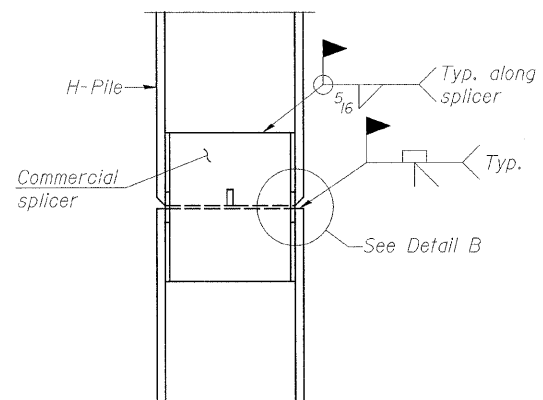
STRUCTURAL SHEET NO. 9 OF 12 SHEETS	ROUTE	SECTION	COUNTY	SHEETS	SHEET
	73	09-00133-00-BR	Jo Daviess	48	29
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

FILE NAME = s:\PROJECTS\2007\1169D09\JoDaviesCo-ScoutCampRd\DESIGN\STRUCT\1169 N.Abutment.dgn

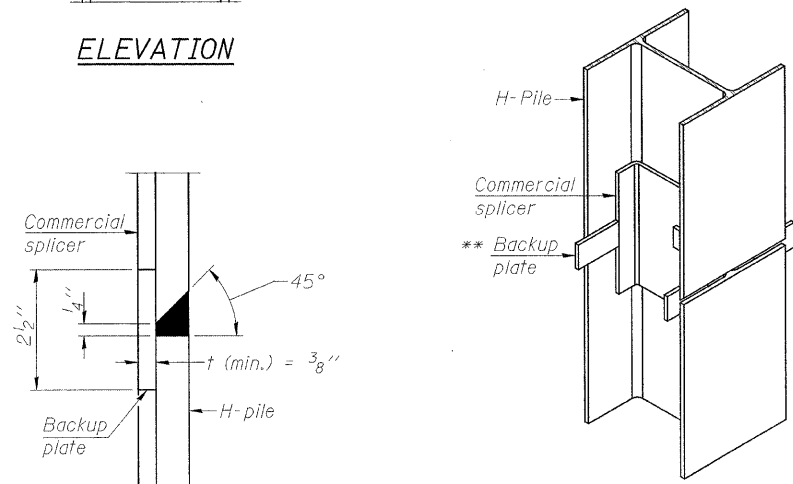


STEEL PILE TABLE

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



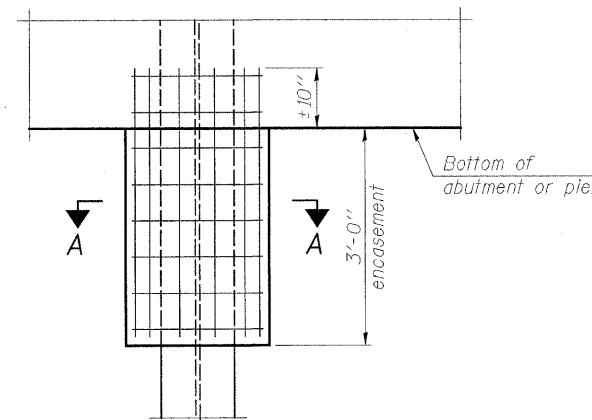
ELEVATION



ISOMETRIC VIEW

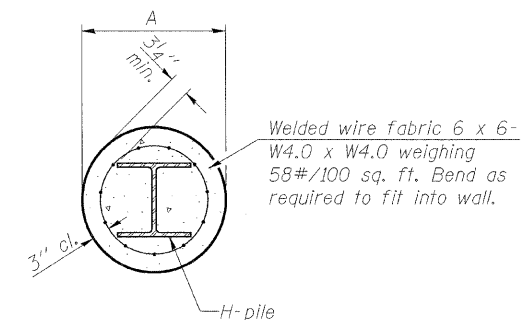
DETAIL "B"

WELDED COMMERCIAL SPLICE

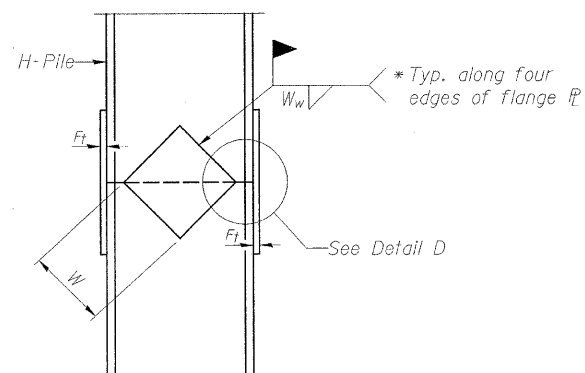


ELEVATION

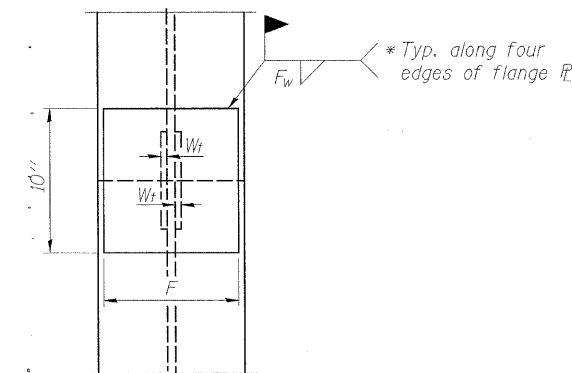
PILE ENCASEMENT



SECTION A-A



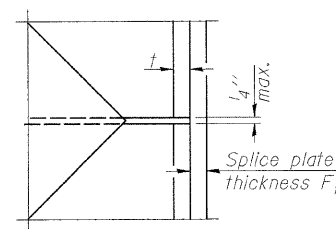
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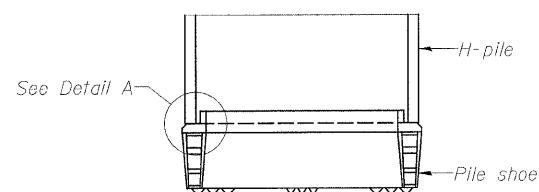
END VIEW

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

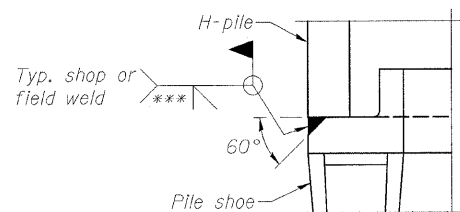
WELDED PLATE FIELD SPLICE



DETAIL D

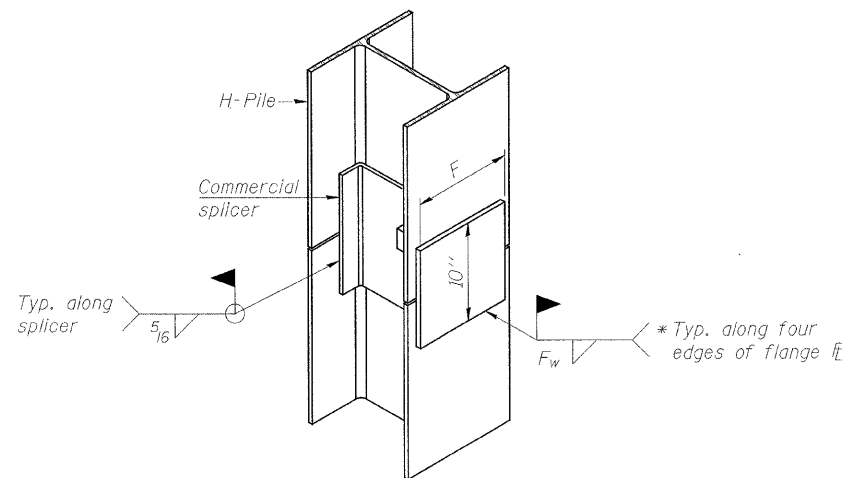


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

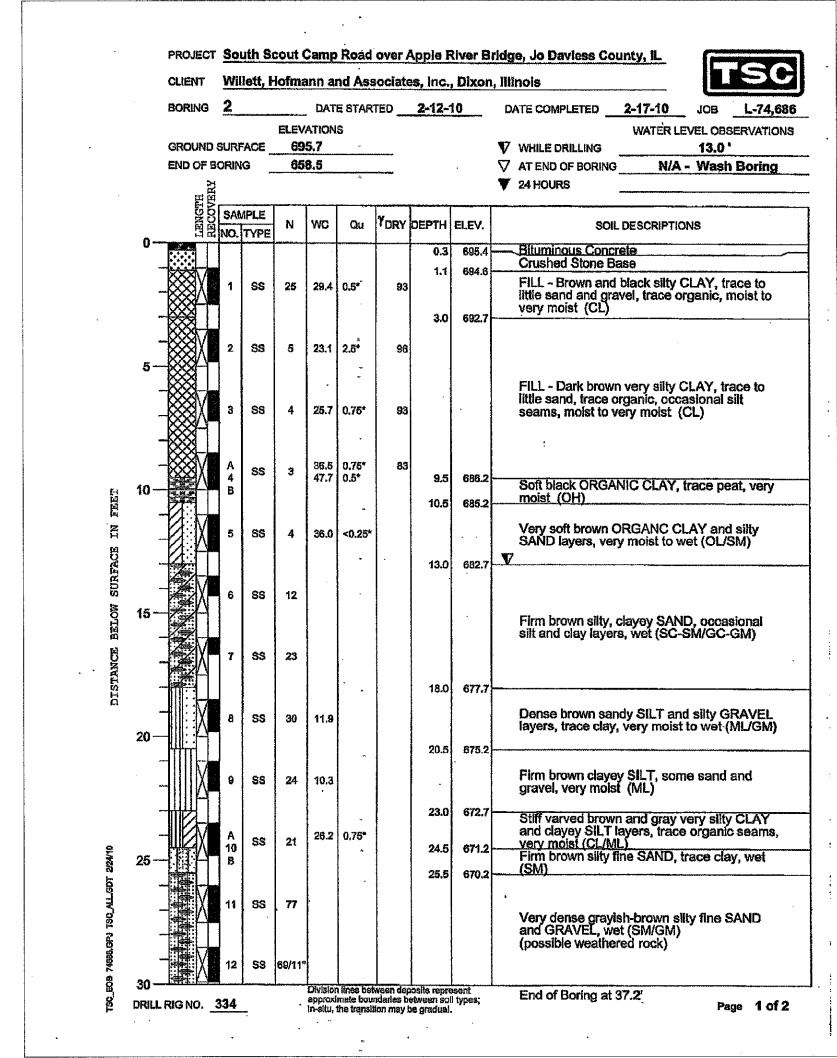
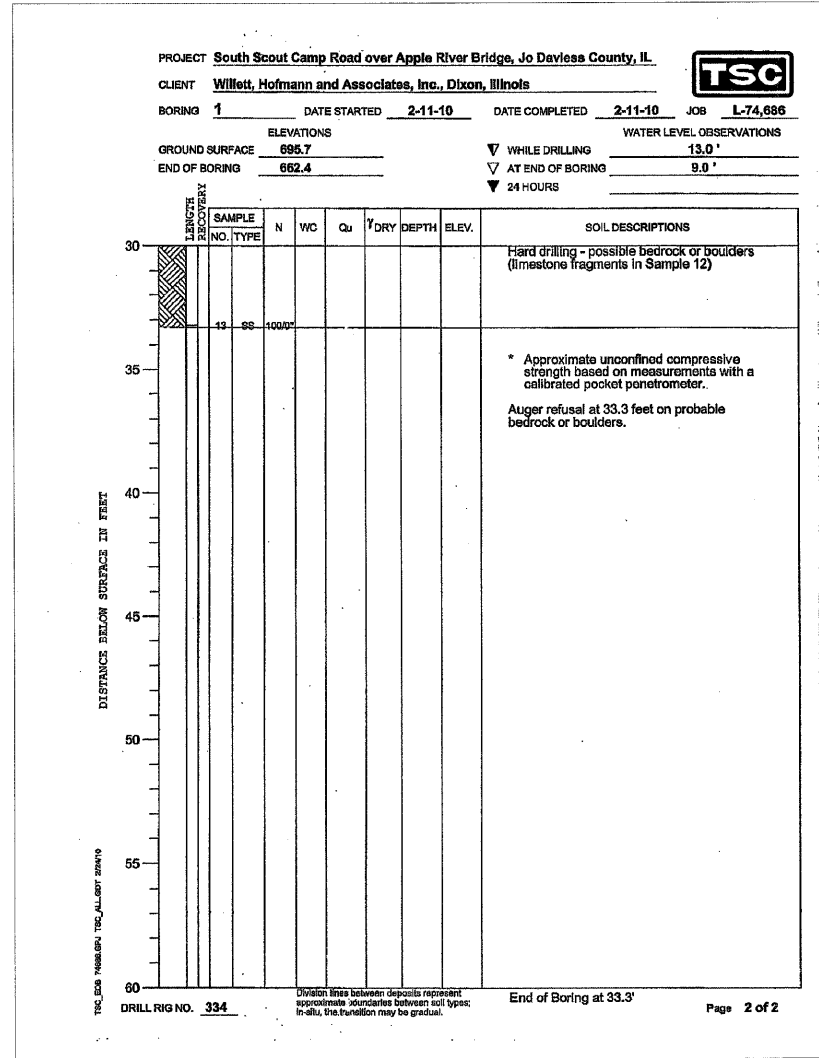
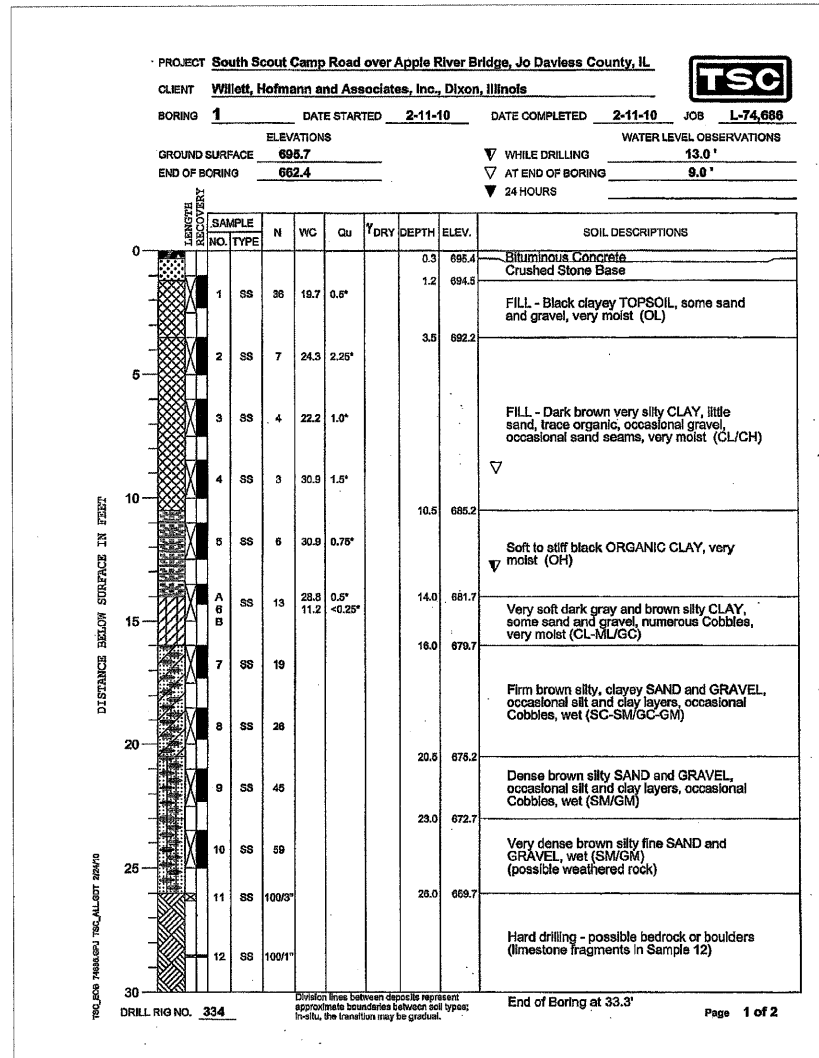
WELDED COMMERCIAL SPLICE ALTERNATE

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

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

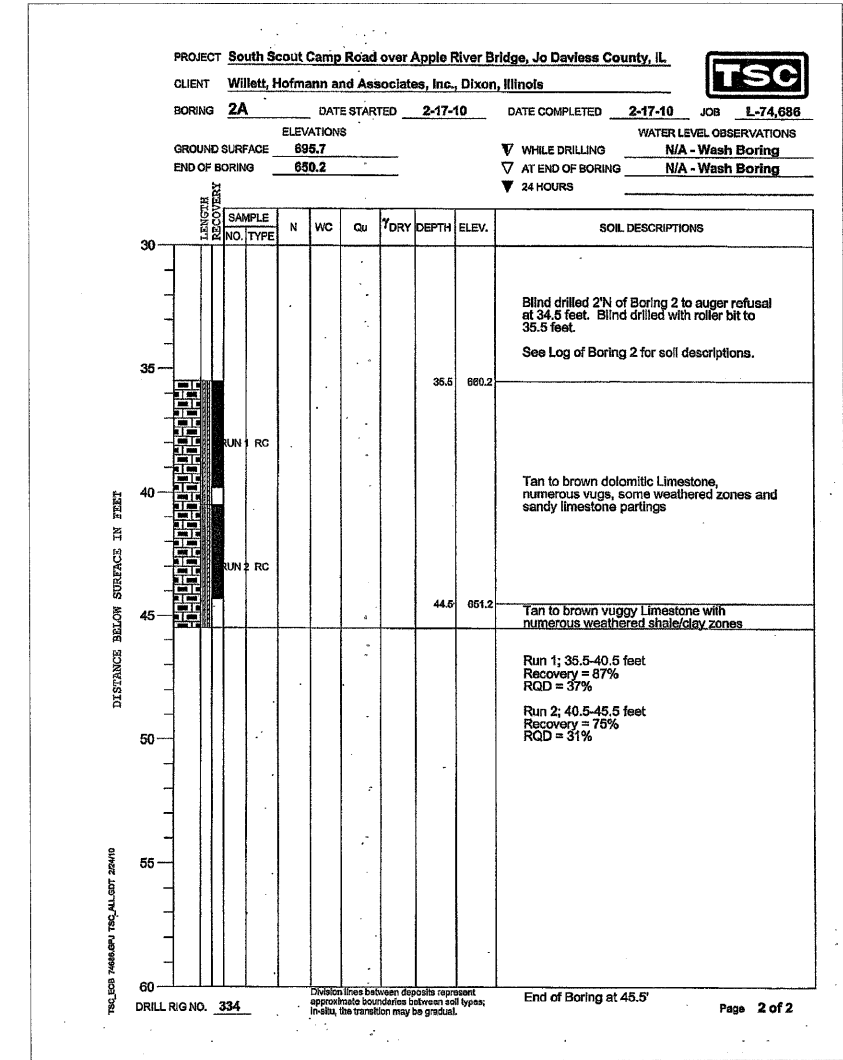
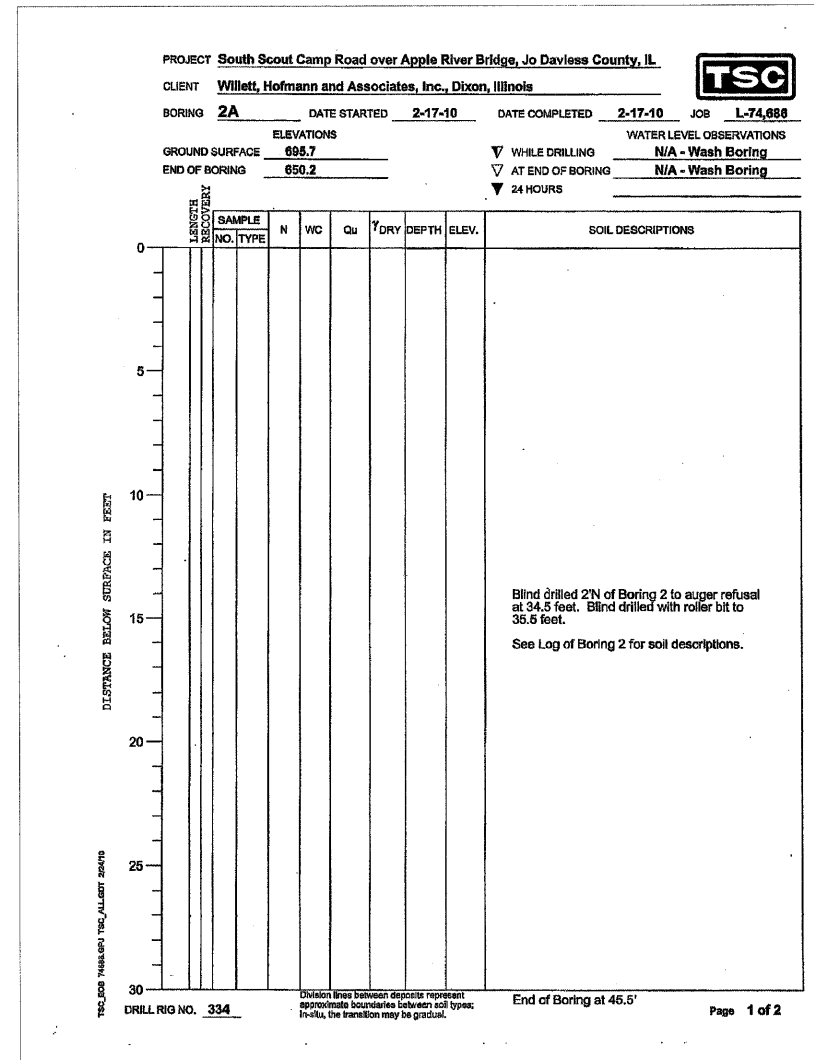
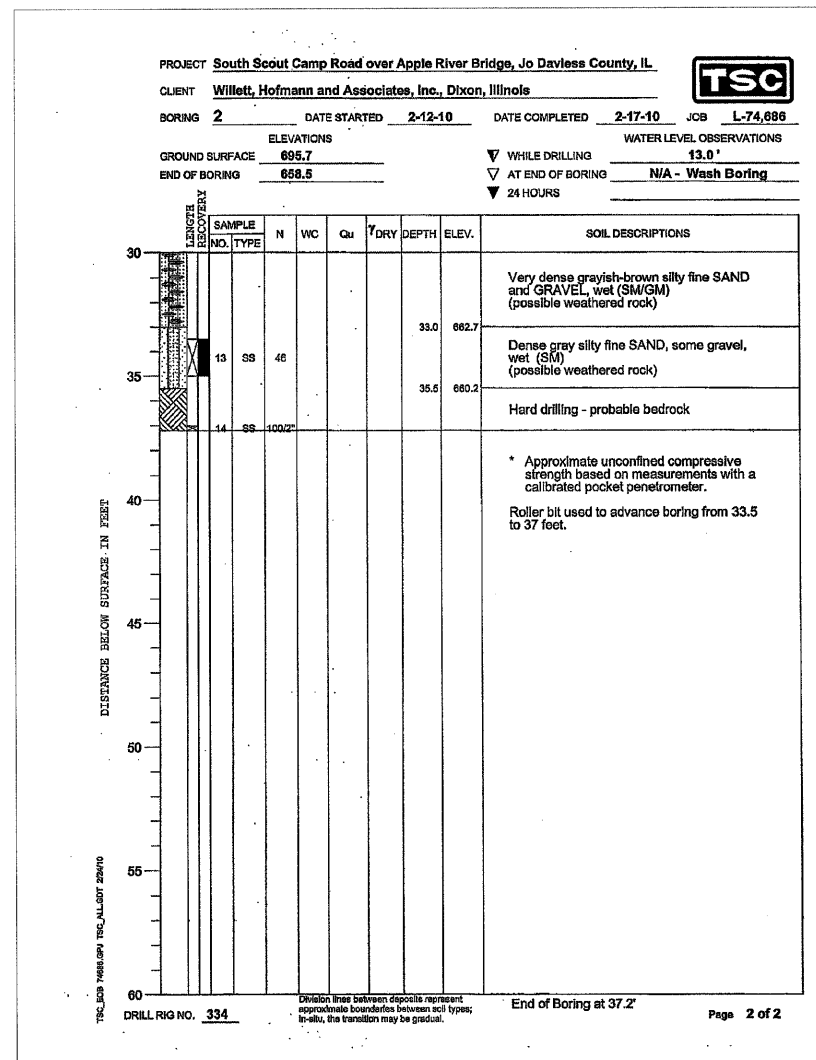
HP PILE DETAILS
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
WHA # 1169D09

STRUCTURAL SHEET NO. 10 OF 12 SHEETS	ROUTE NO.	SECTION	COUNTY	JOINT SHEETS	SHEET NO.
	F.A.S. 73	09-00133-00-BR	Jo Daviess	48	30
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		



BORING LOGS
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

STRUCTURAL SHEET NO. 11 OF 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	F.A.S. 73	09-00133-00-BR	Jo Daviess	48	31
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

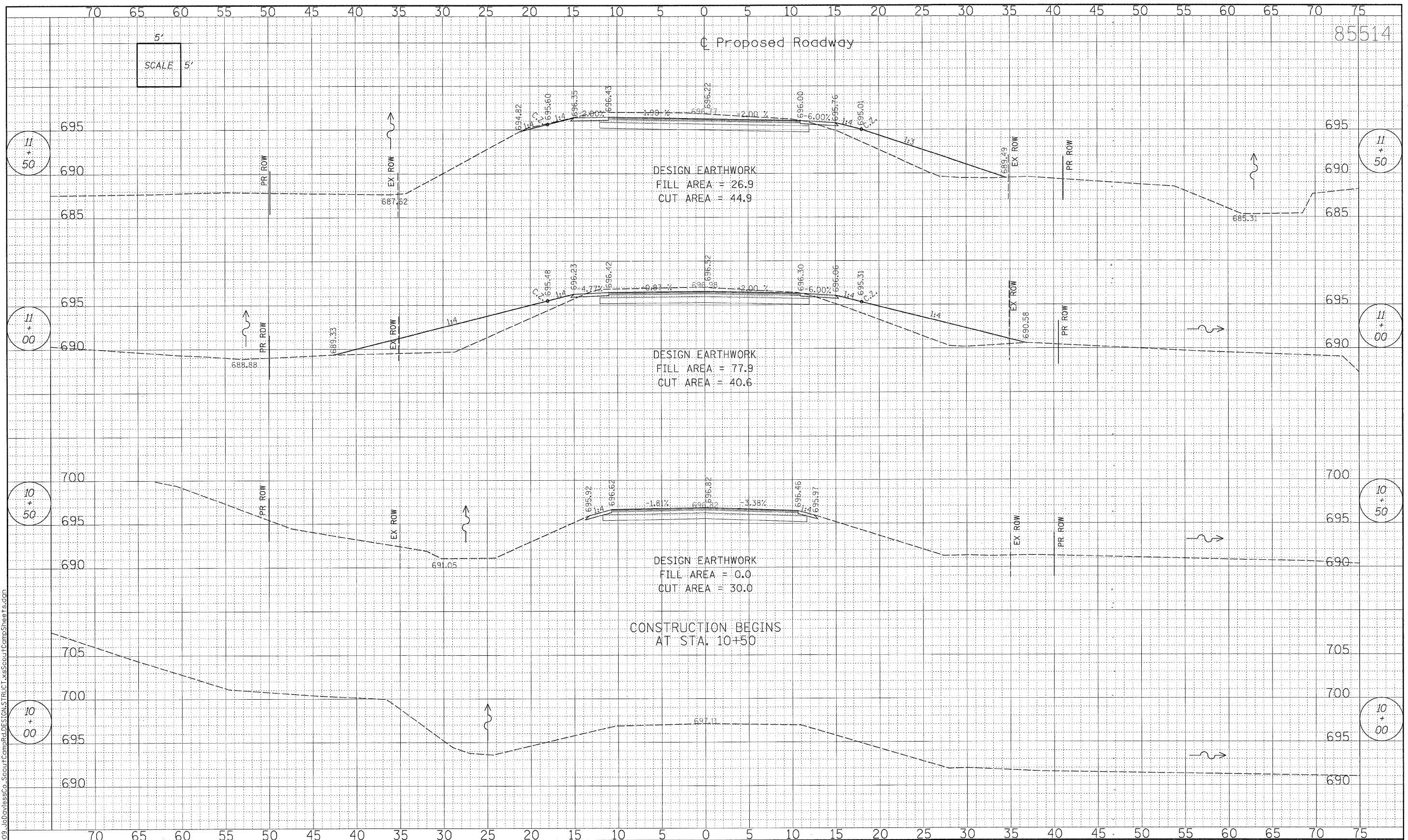


BORING LOGS
SCOUT CAMP ROAD OVER BR. OF APPLE RIVER
STATION 13+60 (S.N. 043-3276)
SECTION 09-00133-00-BR
JO DAVIESS COUNTY
 WHA # 1169D09

STRUCTURAL SHEET NO. 12 OF 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	F.A.S. 73	09-00133-00-BR	Jo Daviess	48	32
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

5'
SCALE 5'

Proposed Roadway



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815-294-3381 Fax 815-294-3385
Design Firm #184-000916
www.willetthofmann.com

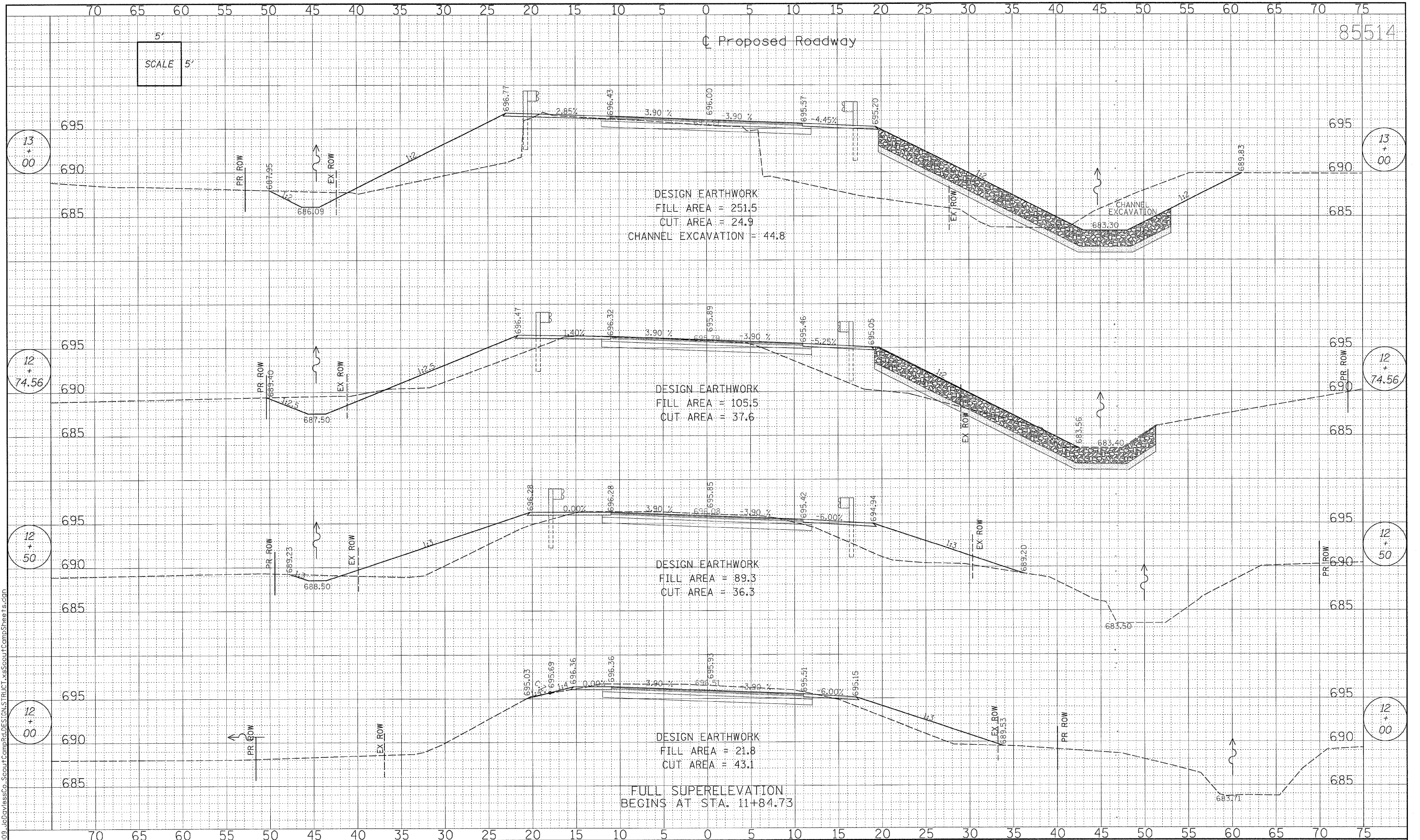
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 10+00.00 - STA. 11+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	33
STA. 10+00.00 - STA. 11+50.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
 SCOUT CAMP ROAD AND
 WELCH ROAD IMPROVEMENTS**



F.A.S. 73
 FED. AID PROJECT -
 FED. ROAD DIST. NO. 7 ILLINOIS

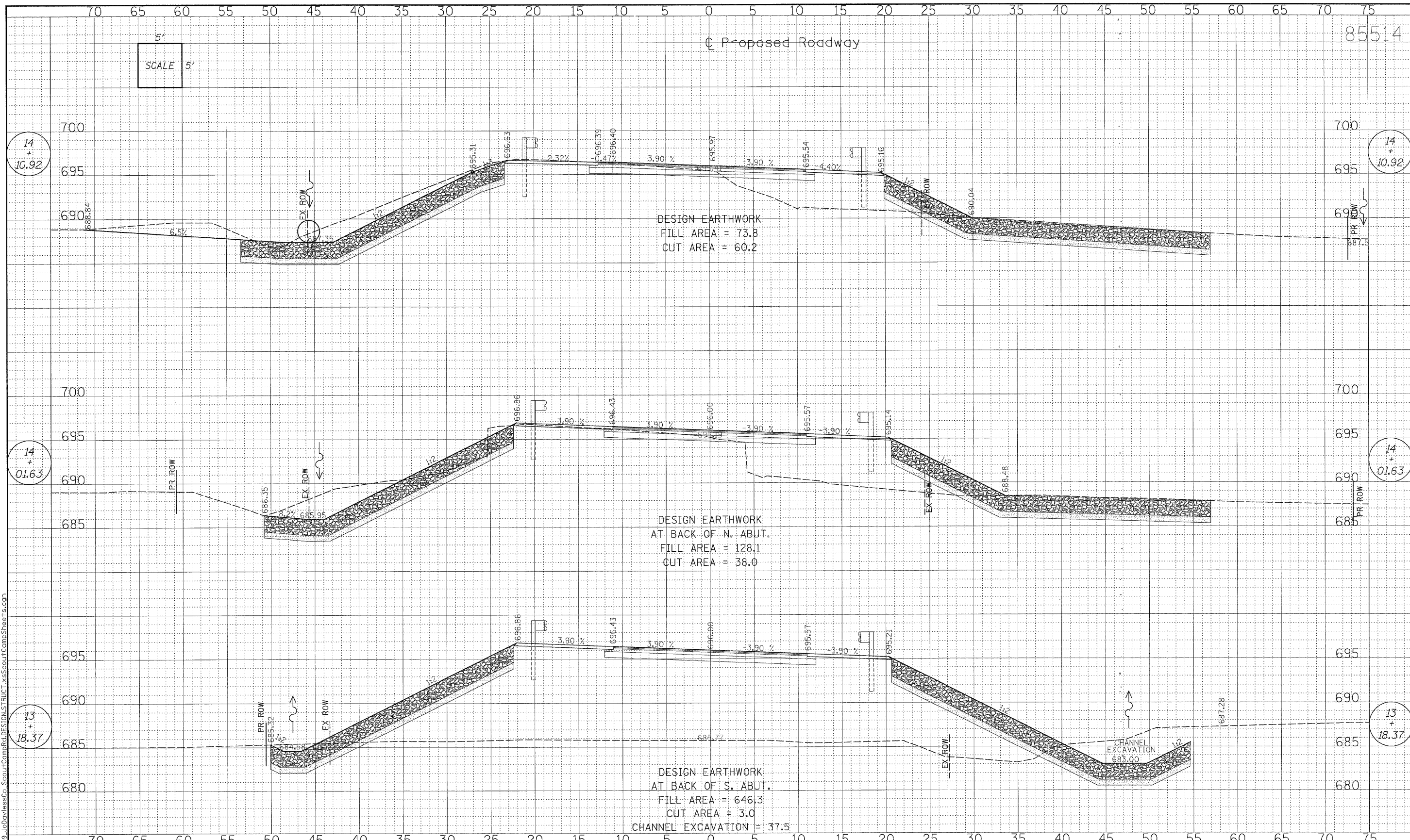
**SCOUT CAMP ROAD
 CROSS SECTIONS**

STA. 12+00.00 - STA. 13+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	34
STA. 12+00.00 - STA. 13+00.00		DATE: XX/XX/XXXX	
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

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85514



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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ASSOCIATES, INC.**
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Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815-294-3381 Fax 815-294-3385
Design Firm #184-00919
www.willettthofmann.com

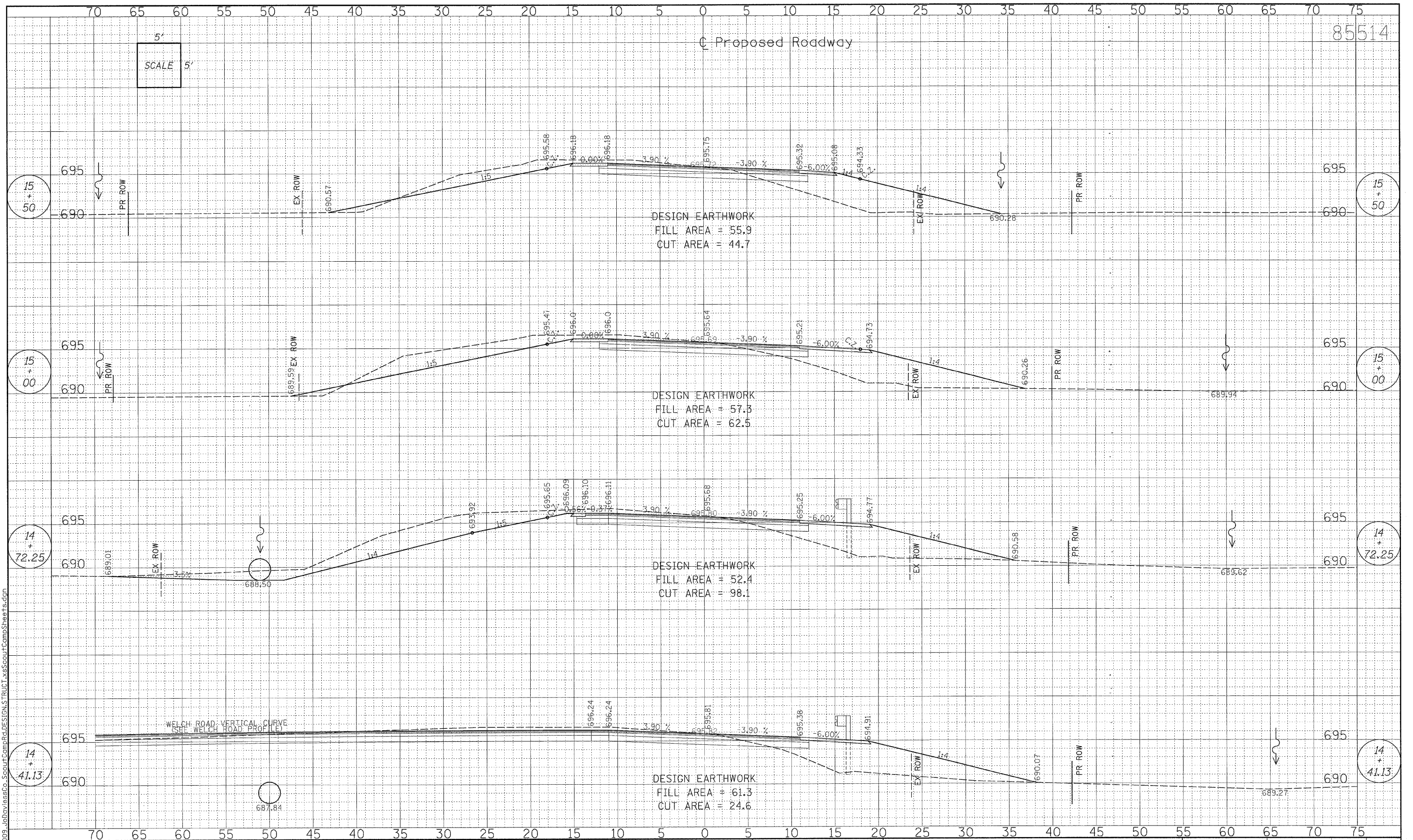
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 13+18.37 - STA. 14+10.92

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	35
STA. 13+18.37 - STA. 14+10.92		DATE: XX/XX/XXXX	
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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HOFMANN &
ASSOCIATES, INC.**
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street - Decatur, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-000818
www.willettthofmann.com

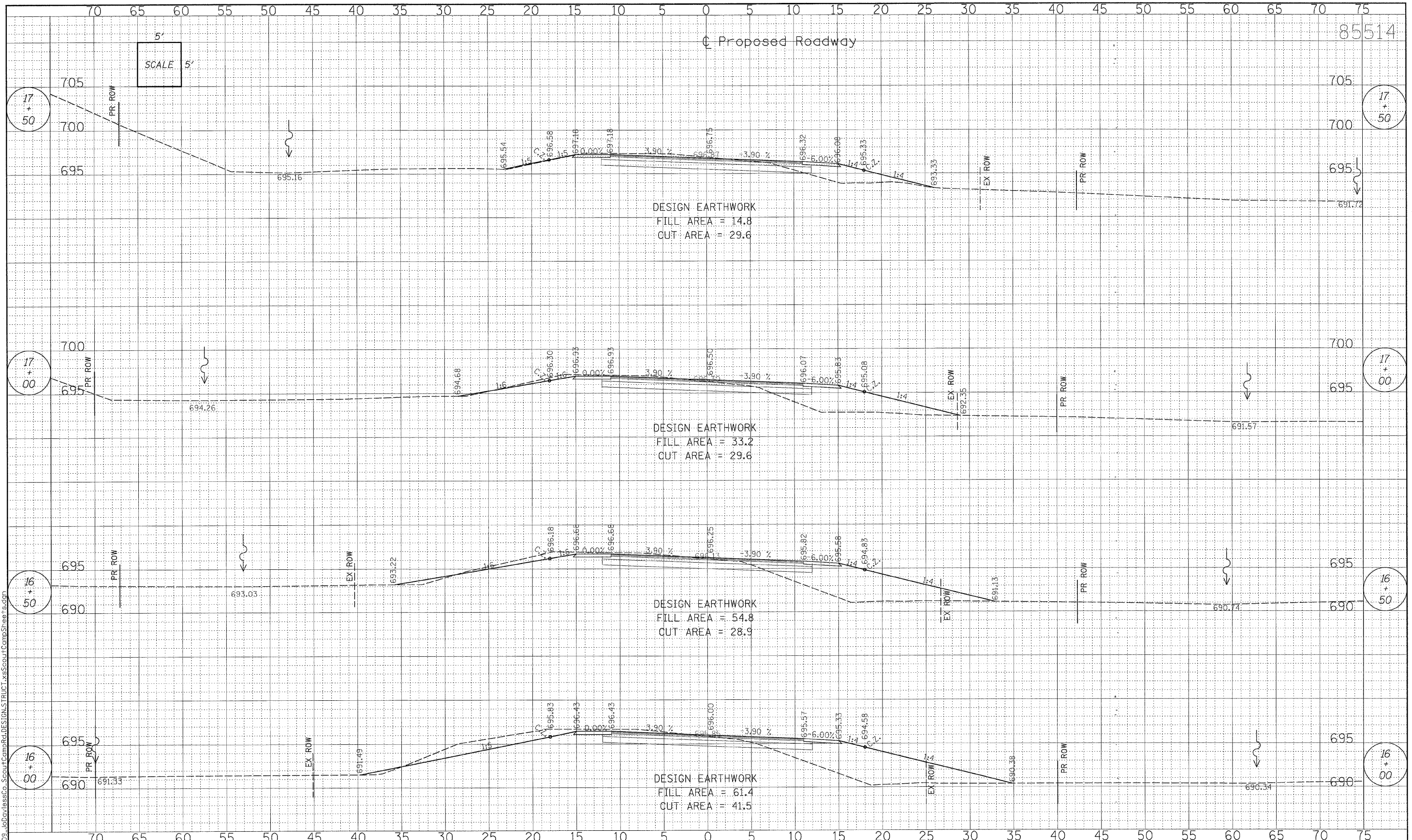
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 14 + 41.13 - STA. 15 + 50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	36
STA. 14+41.13 - STA. 15+50.00		WHA PROJECT: 1169D09 DATE: XX/XX/XXXX	

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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ASSOCIATES, INC.**
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Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-00319
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F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

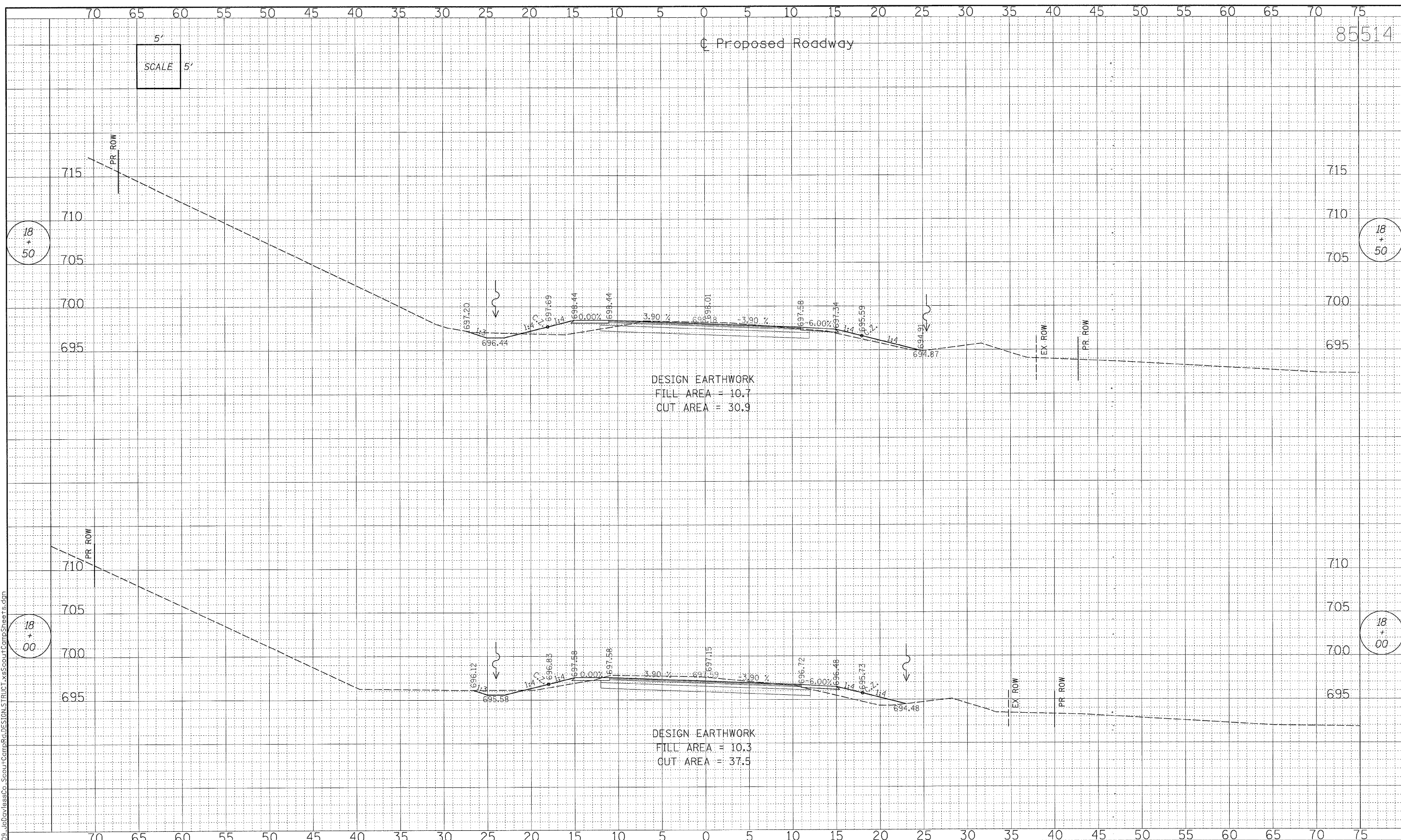
STA. 16 + 00.00 - STA. 17 + 50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	37
STA. 16+00.00 - STA. 17+50.00			
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

FILE: S:\PROJECTS\1169D09_ScoutCampRd\DESIGN\STRUCT\XSScoutCampStreets.dgn

5'
SCALE 5'

Proposed Roadway



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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ASSOCIATES, INC.**
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Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-00019
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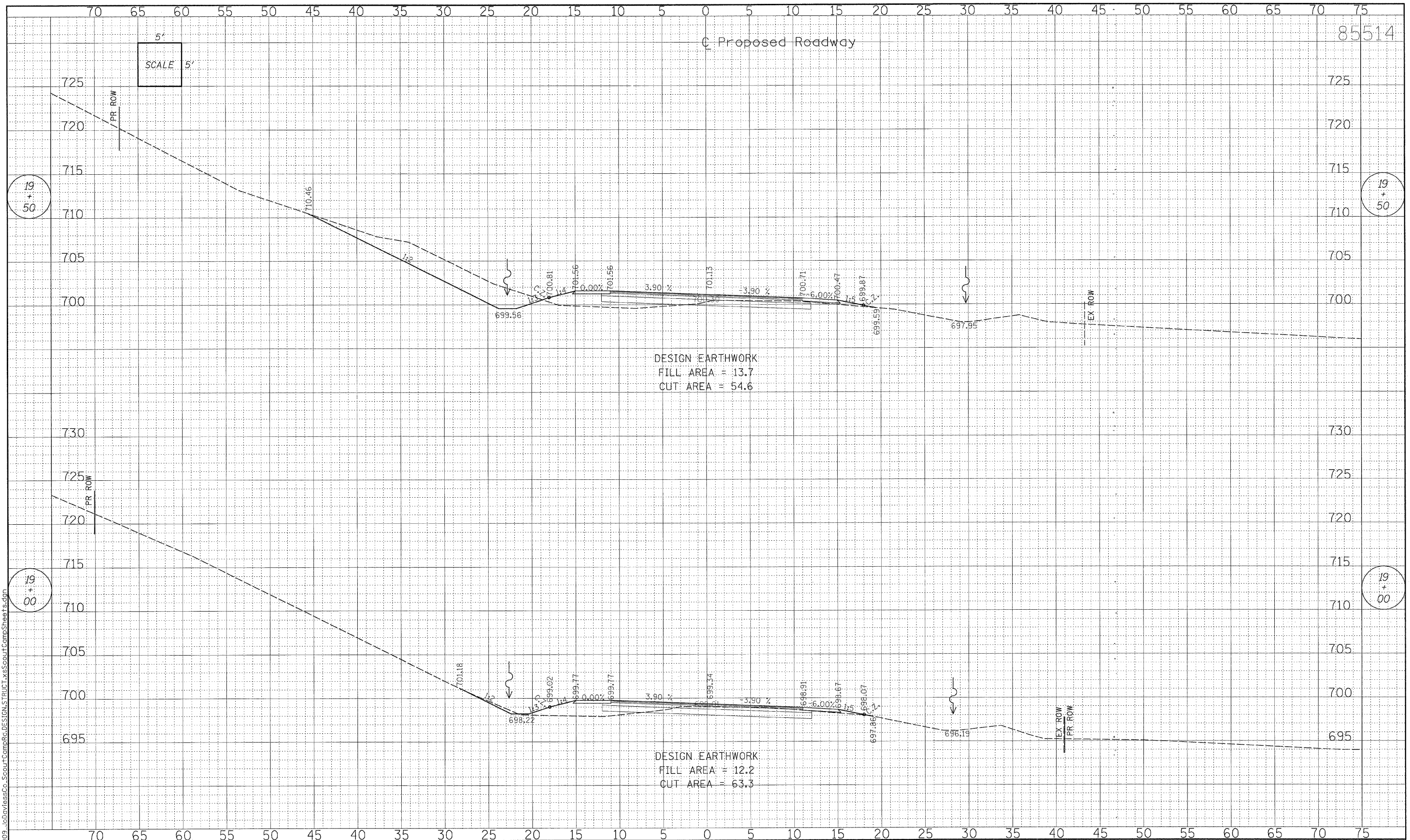
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 18 + 00.00 - STA. 18 + 50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	38
STA. 18+00.00 - STA. 18+50.00			
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

FILE - S:\PROJECTS\1169D09\JO Daviess Co - Scout Camp Rd\DESIGN\STRUCT\XSScoutCampSheets.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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HOFMANN &
ASSOCIATES, INC.**
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone #15.234.3381 Fax #15.234.3385
Design Firm #184-000918
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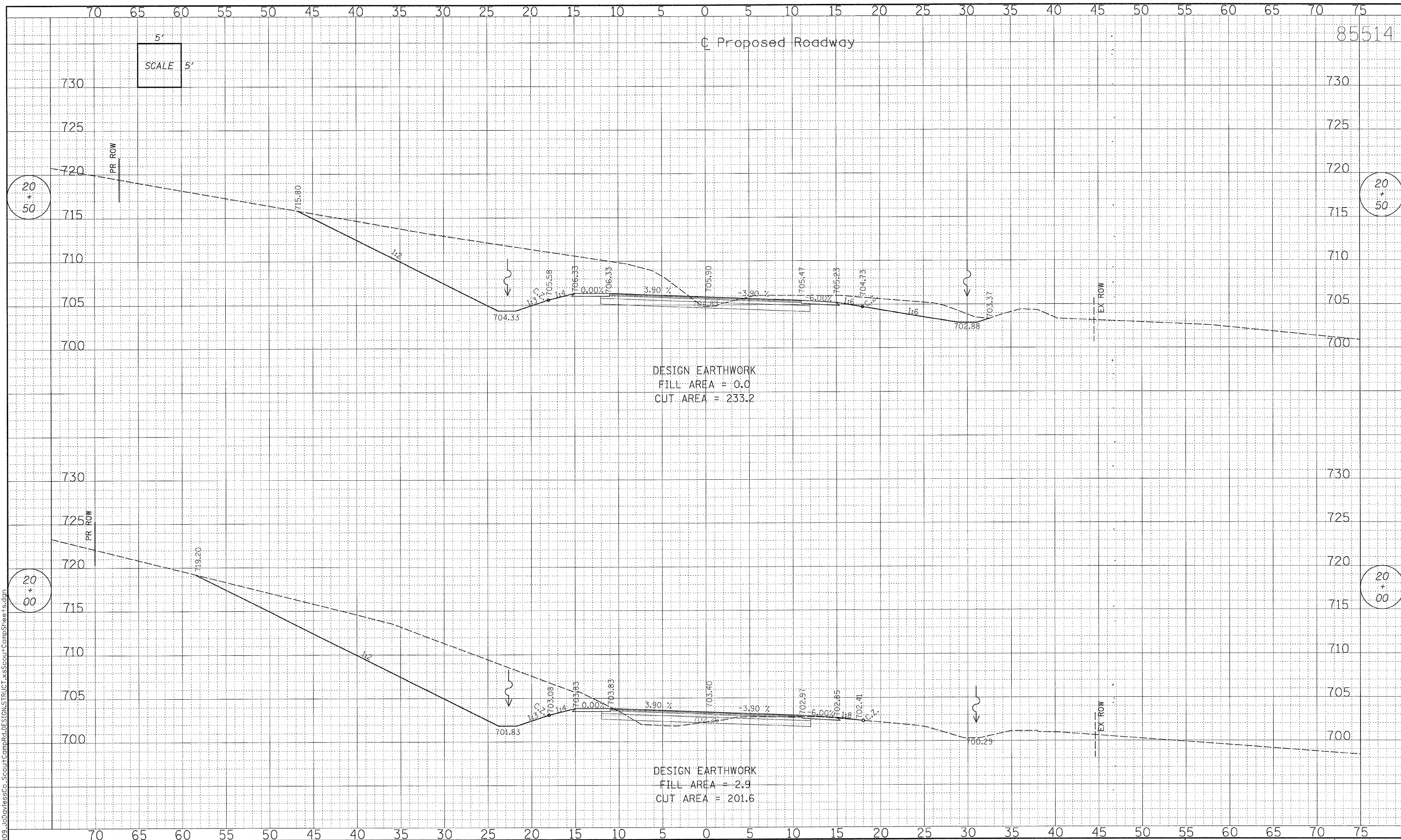
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 19+00.00 - STA. 19+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	39
STA. 19+00.00 - STA. 19+50.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

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REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

CLIENT PROJECT INFO
PROJECT INFO
YEAR

WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815-294-3391 Fax 815-294-3385
Design Firm #184-000918
www.willetthofmann.com

F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

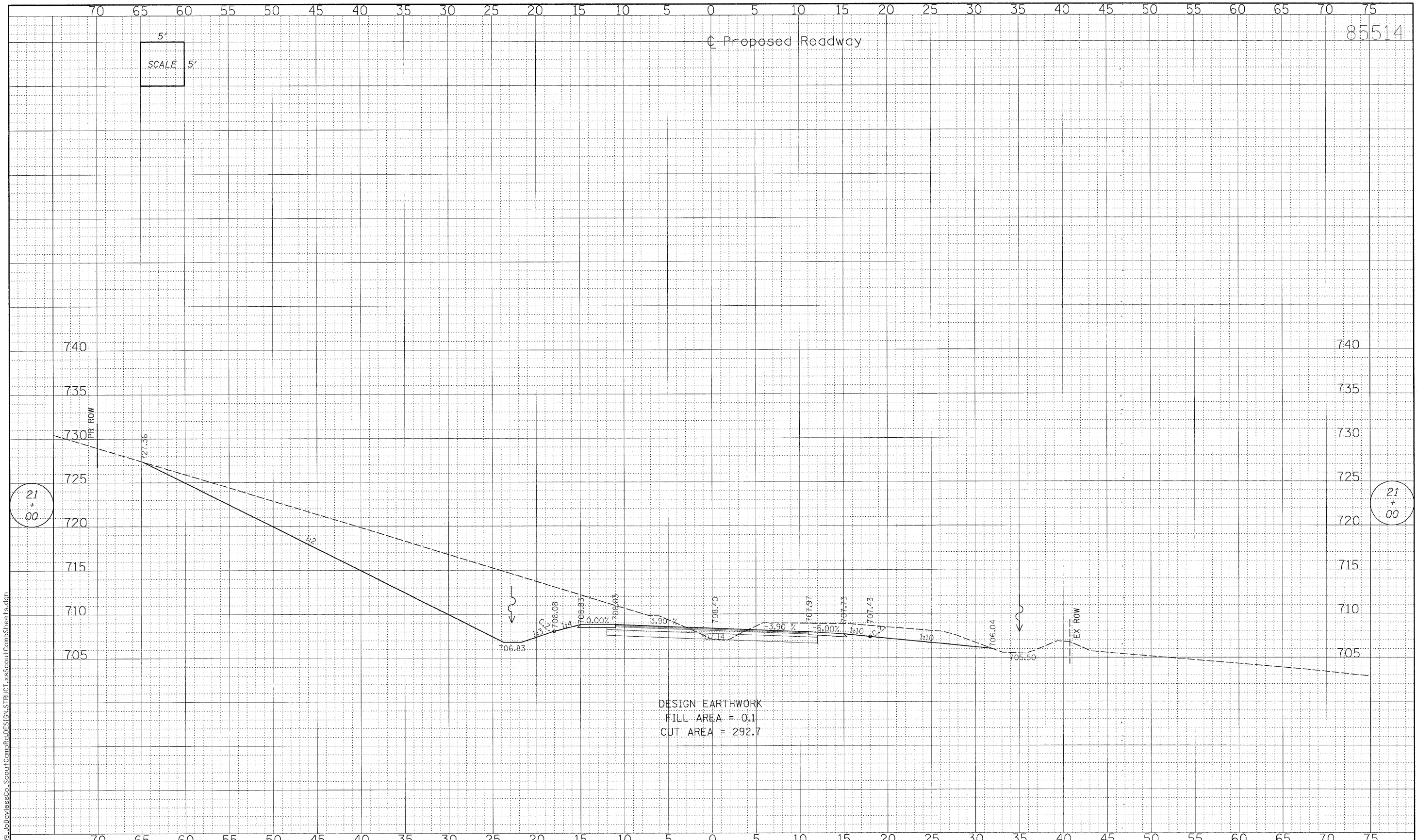
SCOUT CAMP ROAD CROSS SECTIONS
STA. 20+00.00 - STA. 20+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	40
STA. 20+00.00 - STA. 20+50.00			
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\1169D09-00\Drawings\Co_ScoutCampRoad\DESIGN\STRUCT\XsScoutCampSheet.rsdgn

5'
SCALE 5'

Proposed Roadway



DESIGN EARTHWORK
FILL AREA = 0.1
CUT AREA = 292.7

REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-000918
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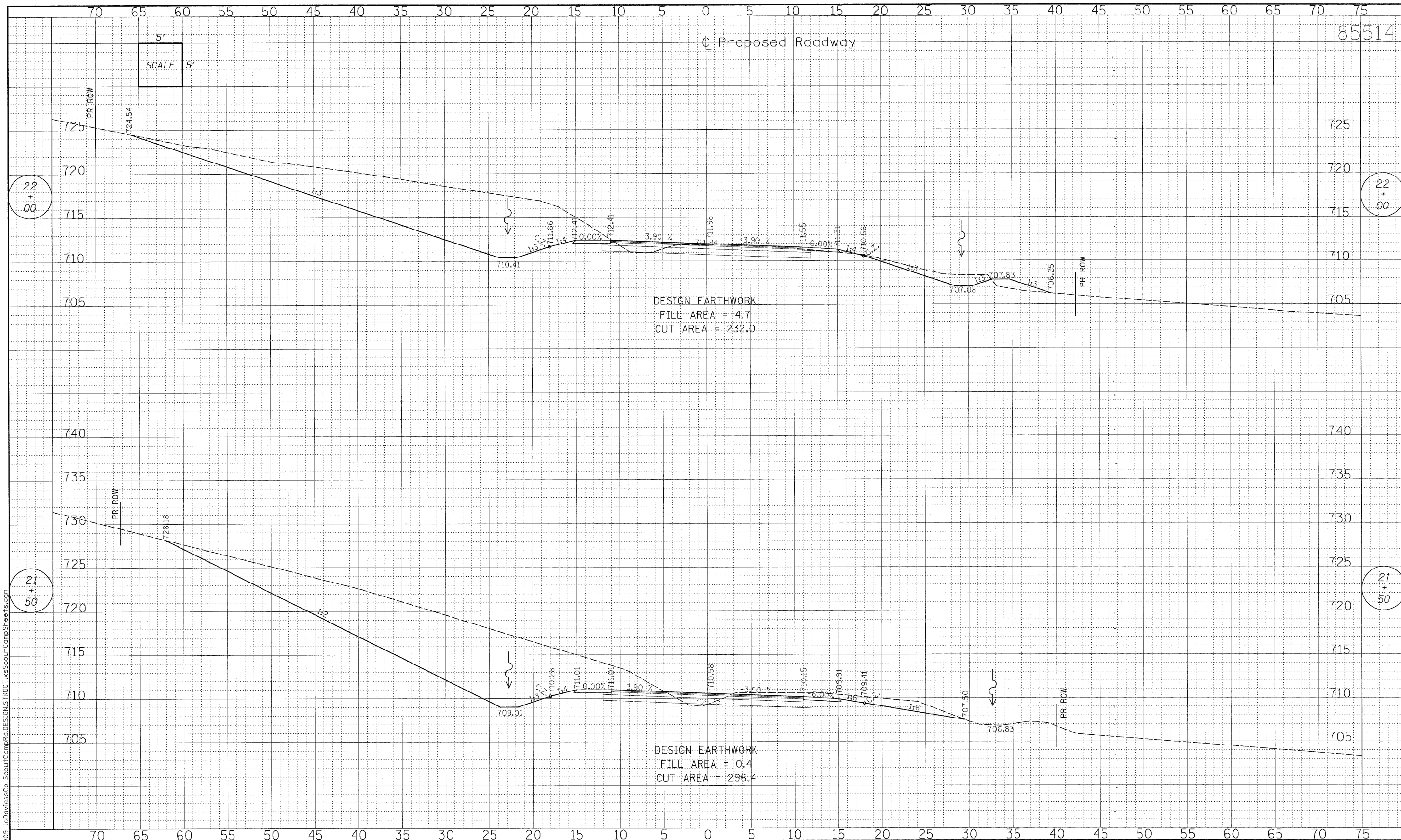
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 21+00.00 - STA. 21+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	41
STA. 21+00.00 - STA. 21+00.00			
WHA PROJECT: 1169D09		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\1169D09\JO Daviess Co. Scout Camp Rd\DESIGN\STRUCT\XSScoutCampSheet18.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
 SCOUT CAMP ROAD AND
 WELCH ROAD IMPROVEMENTS**



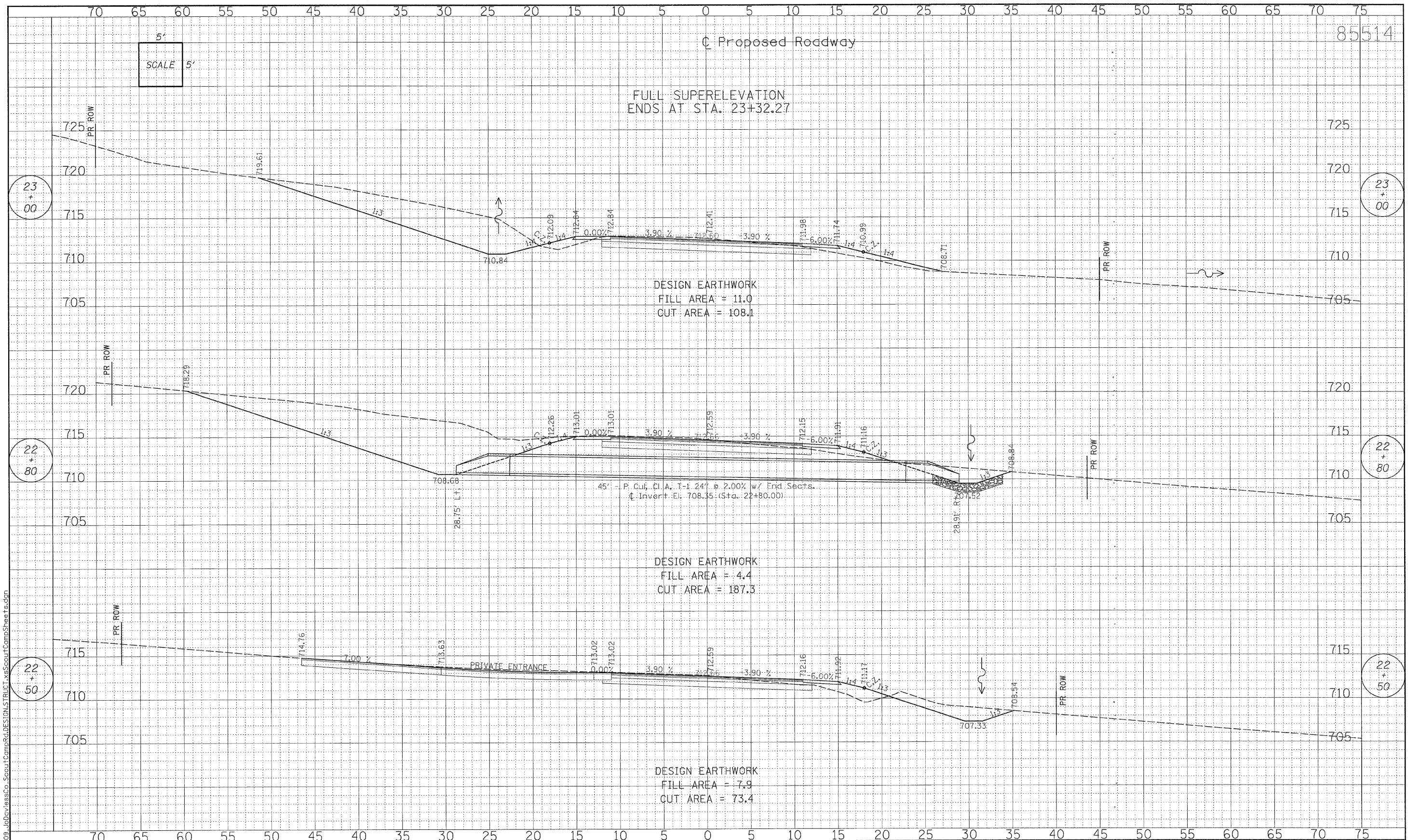
F.A.S. 73
 FED. AID PROJECT -
 FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
 CROSS SECTIONS**

STA. 21+50.00 - STA. 22+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	42
STA. 21+50.00 - STA. 22+00.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\1169009_00\Drawings\Co_Scout_Camp_Road\Design\STRUCT\Scout_Camp_Road_Sheet.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

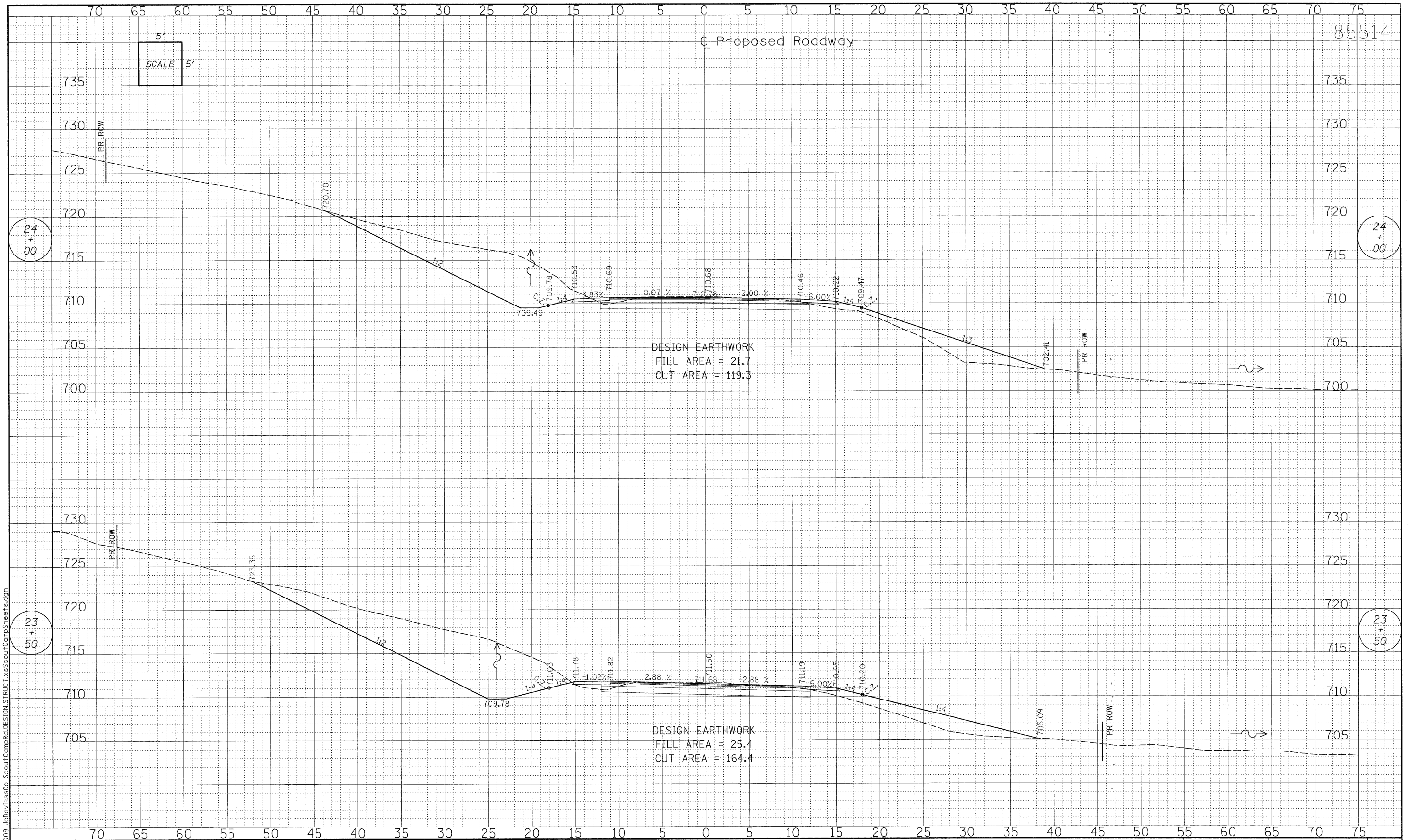
WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-00098
www.willett-hofmann.com

F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

SCOUT CAMP ROAD CROSS SECTIONS	
SECTION	COUNTY
09-00133-00-BR	JO DAVIESS
STA. 22+50.00 - STA. 23+00.00	
STA. 22 + 50.00 - STA. 23 + 00.00	

TOTAL SHEETS	SHEET NO.
48	43
WHA PROJECT: 1169009	DATE: XX/XX/XXXX

FILE = S:\PROJECTS\1169009-JoDaviesCo_ScoutCampRoad\DESIGN\STRUCT.\xScoutCampSheets.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

WILLET, HOFMANN & ASSOCIATES, INC.
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Environmental - Architecture
909 East Second Street, Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #194-000918
www.willett-hofmann.com

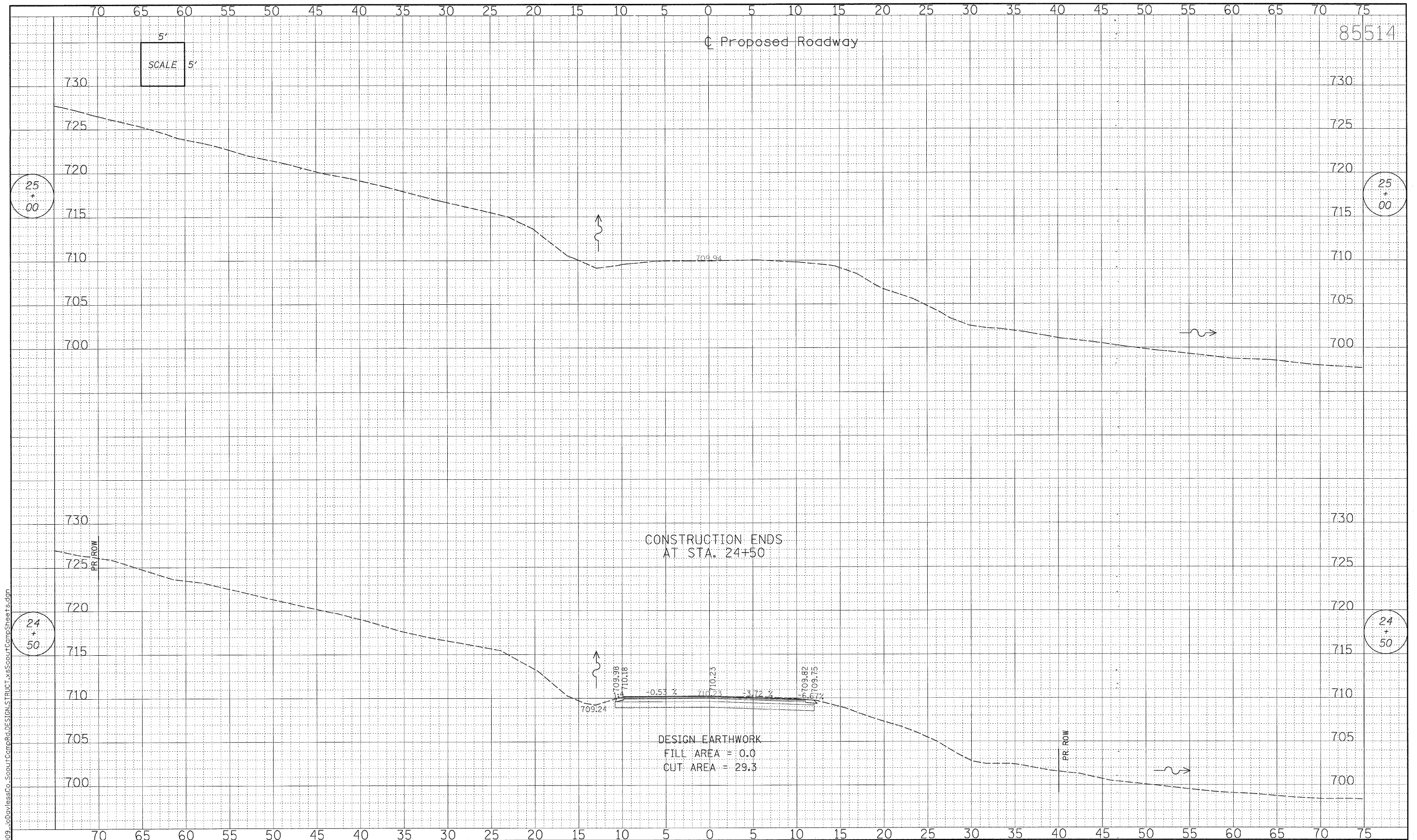
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**SCOUT CAMP ROAD
CROSS SECTIONS**

STA. 23 + 50.00 - STA. 24 + 00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	44
STA. 23+50.00 - STA. 24+00.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\1169009 - Jo Daviess Co - Scout Camp Rd\DESIGN\STRUCT\23+50\ScoutCampSheet14.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS

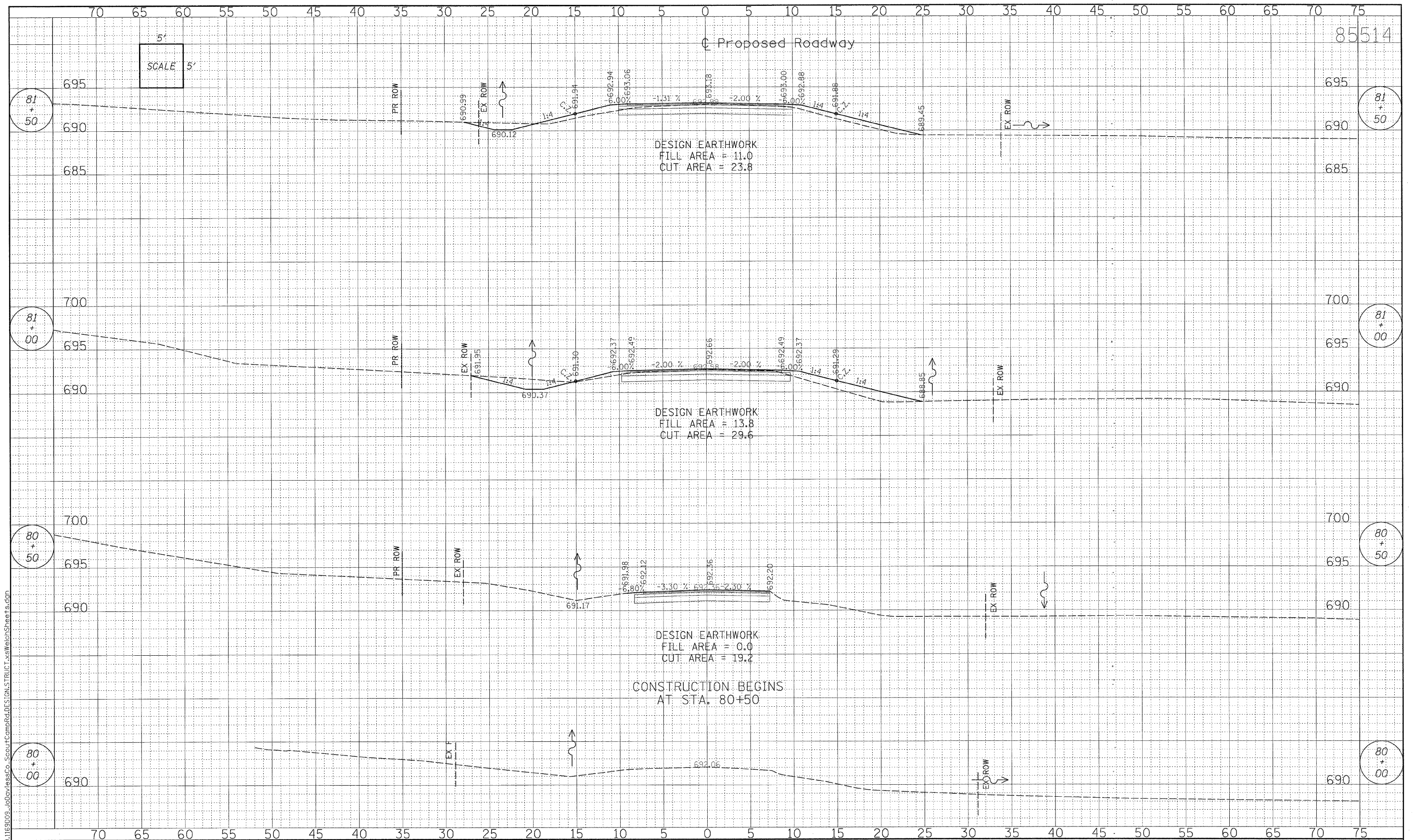
WILLET, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS
Land Surveying - Transportation - Structural
 Environmental - Architecture
 809 East Second Street Dixon, Illinois 61021
 Phone 815.284.3361 Fax 815.284.3385
 Design Firm #164-000916 www.willett-hofmann.com

F.A.S. 73
 FED. AID PROJECT -
 FED. ROAD DIST. NO. 7 ILLINOIS

SCOUT CAMP ROAD
CROSS SECTIONS
STA. 24 + 50.00 - STA. 25 + 00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	45
STA. 24+50.00 - STA. 25+00.00		WHA PROJECT: 1169D09	
DATE: XX/XX/XXXX			

FILE = S:\PROJECTS\1169D09 - Jo Daviess Co - Scout Camp Rd DESIGN STRUCT - Scout Camp Sheets.dgn



REV.	DATE	BY	REMARKS

DRAWN	X.X.X.
CHECKED	X.X.X.
APPROVED	X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

**WILLETT,
HOFMANN &
ASSOCIATES, INC.**
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809 East Second Street Dixon, Illinois 61021
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Design Firm #184-000918
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FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**WELCH ROAD
CROSS SECTIONS**

STA. 80+00.00 - STA. 81+50.00

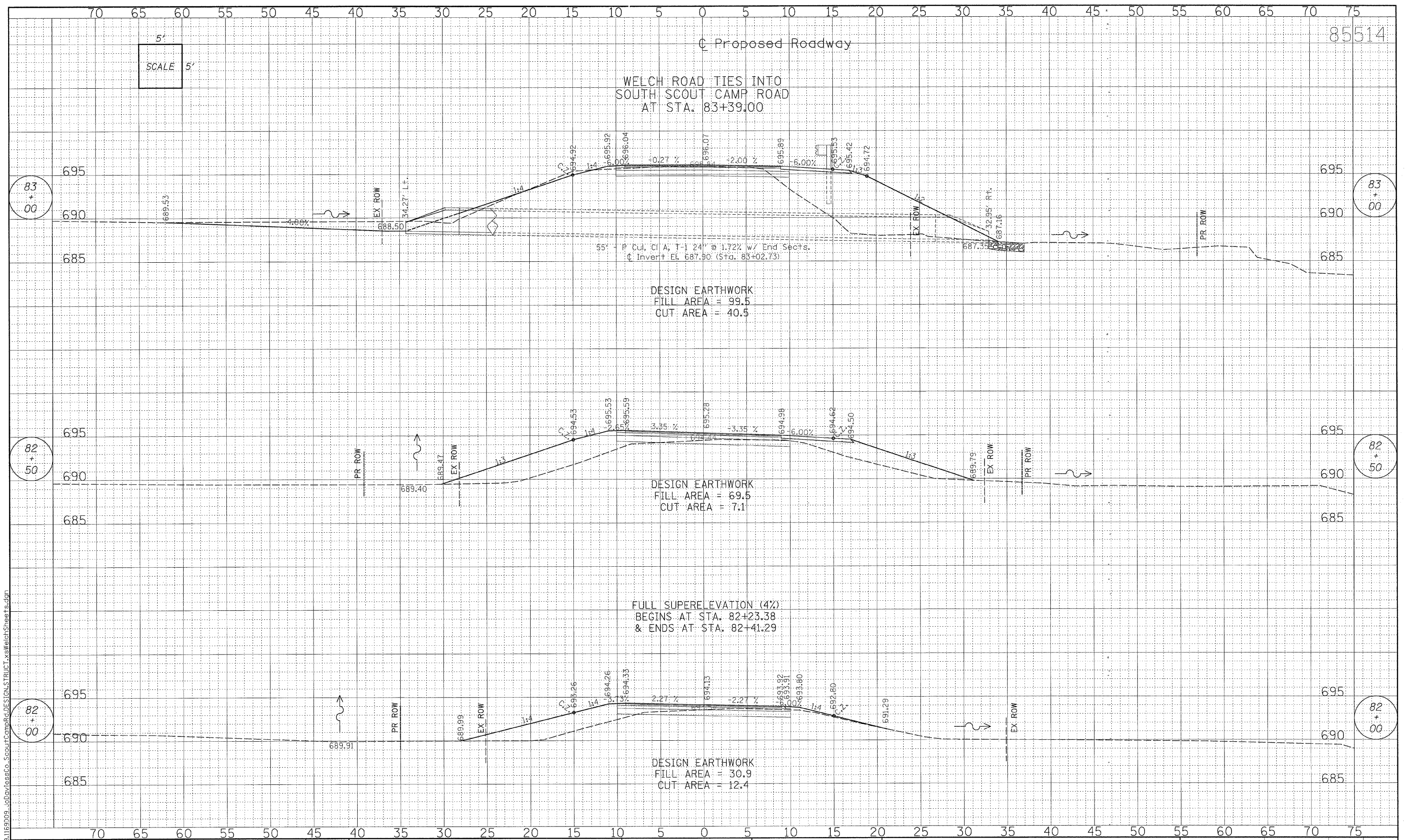
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	46
STA. 80+00.00 - STA. 81+50.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

FILE = S:\PROJECTS\2008\1169009_JoDaviesCo_ScoutCampRd\DESIGN\STRUCT\XelWelchSheets.dgn

5'
SCALE 5'

Proposed Roadway

WELCH ROAD TIES INTO
SOUTH SCOUT CAMP ROAD
AT STA. 83+39.00



FULL SUPERELEVATION (4%)
BEGINS AT STA. 82+23.38
& ENDS AT STA. 82+41.29

REV.	DATE	BY	REMARKS

DRAWN
X.X.X.
CHECKED
X.X.X.
APPROVED
X.X.X.

**JO DAVIESS COUNTY
SCOUT CAMP ROAD AND
WELCH ROAD IMPROVEMENTS**

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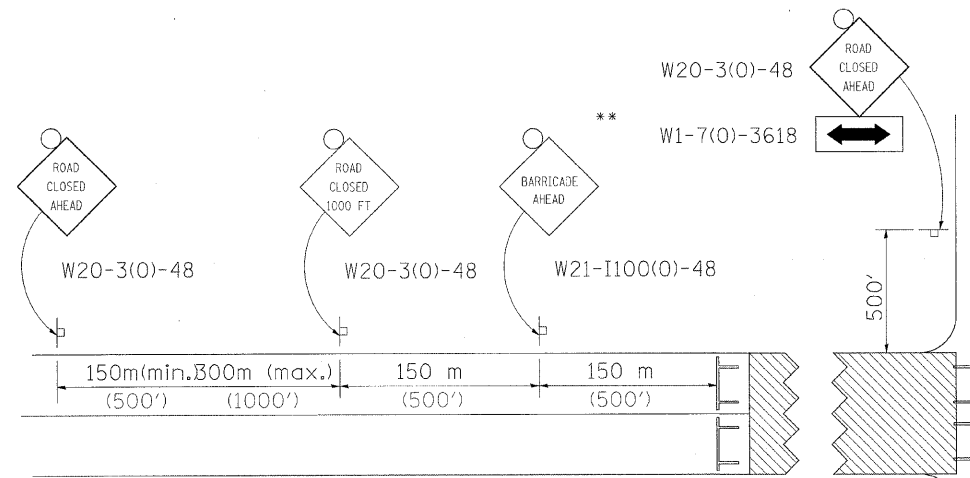
F.A.S. 73
FED. AID PROJECT -
FED. ROAD DIST. NO. 7 ILLINOIS

**WELCH ROAD
CROSS SECTIONS**
STA. 82+00.00 - STA. 83+00.00

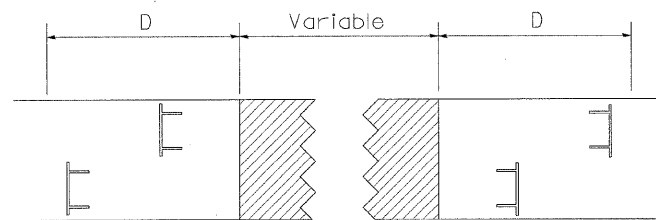
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00133-00-BR	JO DAVIESS	48	47
STA. 82+00.00 - STA. 83+00.00			
WHA PROJECT: 1169009		DATE: XX/XX/XXXX	

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TRAFFIC CONTROL FOR ROAD CLOSURE



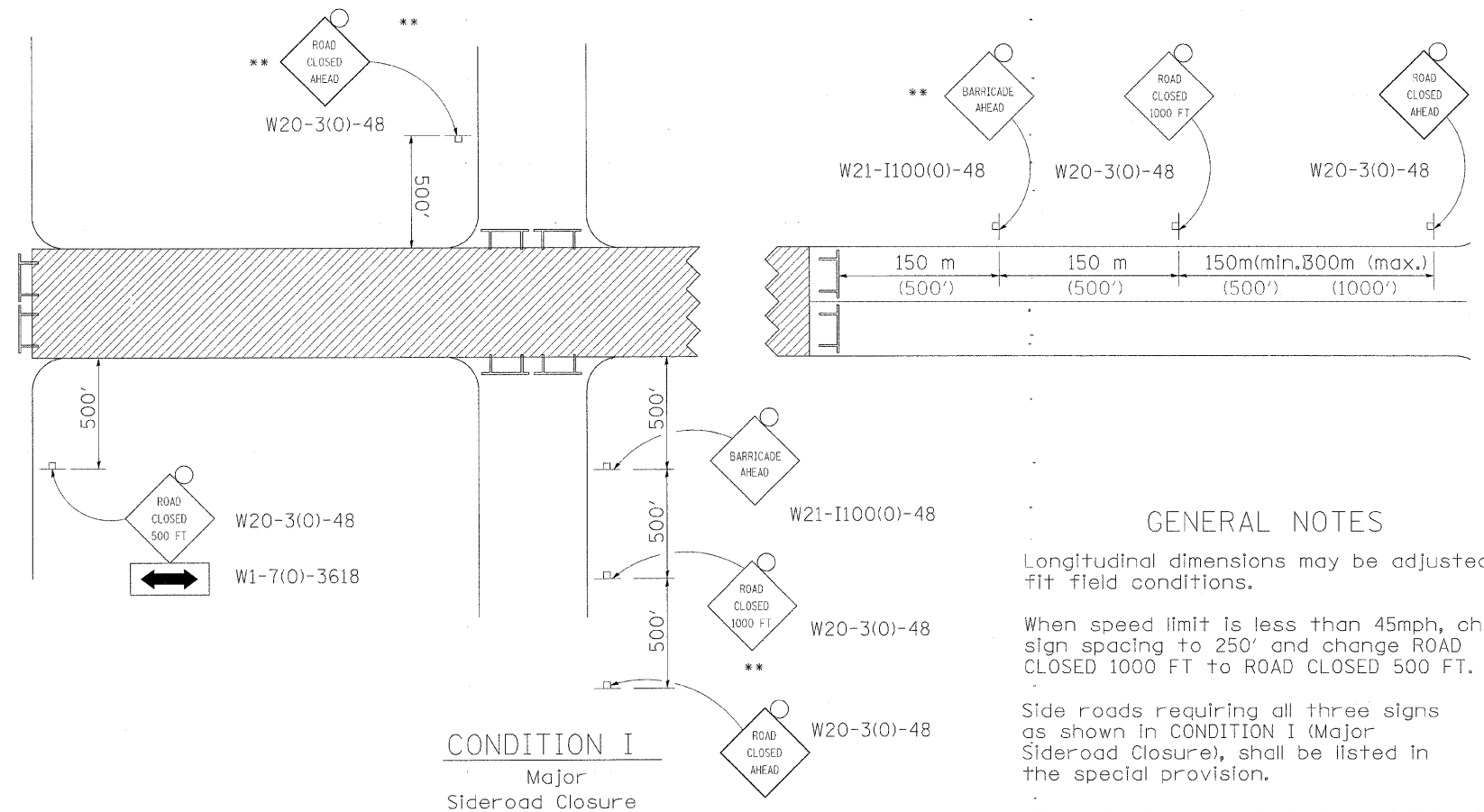
ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

CONDITION II




Minor Sideroad Closure



CONDITION I

Major Sideroad Closure

SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic.

Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

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

TYPICAL APPLICATION FOR ROAD CLOSURE

REVISED 10-20-04

WHA #1169D09 TOTAL SHEETS 48 SHEET NO. 48