1-21-11 LETTING ITEM 072

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	1
	ILLINOIS	CONTRACT NO. 70458		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

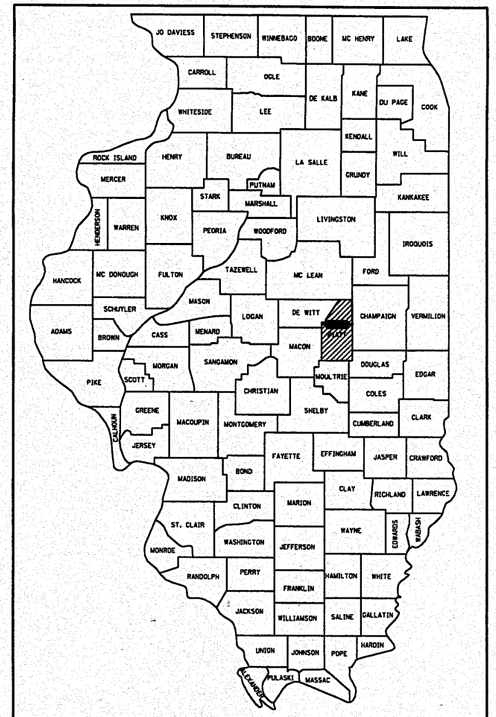
PROPOSED
HIGHWAY PLANS

FAS ROUTE 1531 (CISCO – MONTICELLO RD)
SECTION 10B–1 & 11B–1
BRIDGE & CULVERT REPLACEMENT
PIATT COUNTY
WOLF RUN CREEK, STREAM 3.5 MI.
E. OF CISCO, & WILDCAT CREEK
PROJECT RS-1531(100)

C–95–007–05

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS 4–6

D–95–007–05



LOCATION OF SECTION INDICATED THUS:– ▬

CURRENT ADT
MAJOR COLLECTOR
FAS 1531 (CISCO – MONTICELLO RD) = 1350 (2007)
SU = 5.0% MU = 0.5%

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123 TOWNSHIPS
OR 811 WILLOW BRANCH, MONTICELLO

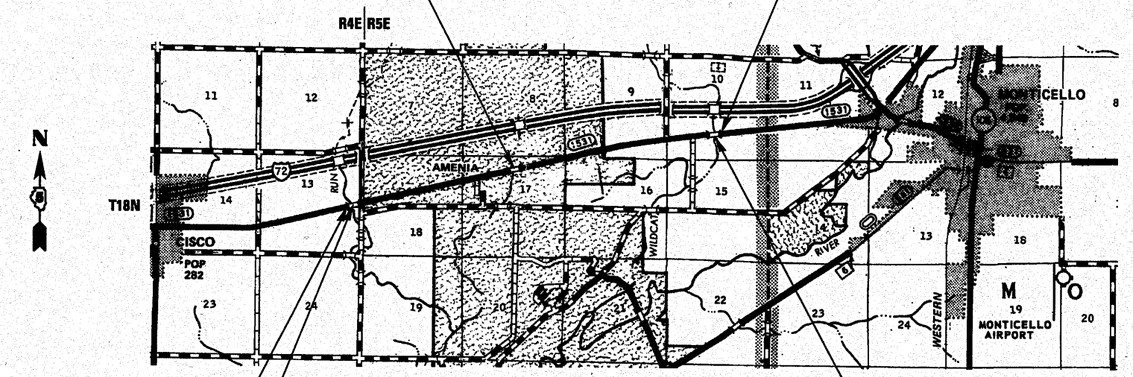
PROJECT ENGINEER: NANCY FASIG
SQUAD LEADER: STEVE COOMBES
(217) 465–4181

CONTRACT NO. 70458

EXIST SN 074–0049
DOUBLE 10'X9' RC BOX CULVERT
STATION 241+65.00

PROP SN 074–8606
SINGLE 12'X9' RC BOX CULVERT
STATION 241+65.00

SECTION ENDS STA. 354+70.00



SECTION BEGINS STA. 163+80.00

EXIST SN 074–0017
SINGLE SPAN REINFORCED
CONCRETE GIRDER BRIDGE
STATION 164+40.00

PROP SN 074–2007
TRIPLE 12'X10'X58' PC BOX CULVERT
STATION 164+40.00

GROSS LENGTH = 19,090.00 FT. = 3.616 MILE
NET LENGTH = 687.50 FT. = 0.130 MILE

EXIST SN 074–0018
SINGLE SPAN REINFORCED
CONCRETE GIRDER BRIDGE
STATION 352+50.00

PROP SN 074–2006
DOUBLE 12'X10'X67' PC BOX CULVERT
STATION 352+50.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10/20 20 10
Russell E. Crowe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
DEC 10 20 10
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
Dec 10 20 10
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
630001-09	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN (4.5 M) 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM EDGE OF PAVEMENT
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS >/= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
780001-02	TYPICAL PAVEMENT MARKINGS

701011-02

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	2
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

G.N.-100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-250C(SPL)
TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-540
THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

G.N.-542
BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-542B
ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

G.N.-667
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-1004.01
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038
AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

COMMITMENTS:
THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	3
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO.	DESCRIPTION	UNIT	PIATT CO. FAS 1531 MONTICELLO-CISCO RD 80% FED. / 20% STATE TOTAL QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2007 80% FED. / 20% STATE 0011 QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-8606 80% FED. / 20% STATE 0040 QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2006 80% FED. / 20% STATE 0011 QUANTITY
	20200100	EARTH EXCAVATION	CU YD	639.0	274.0	161.0	204.0
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	1,400.0	436.2	244.3	719.5
	21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	645.0	210.0	120.0	315.0
*	25000200	SEEDING, CLASS 2	ACRE	0.8	0.2	0.1	0.5
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	67.5	15.8	8.2	43.5
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	67.5	15.8	8.2	43.5
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	67.5	15.8	8.2	43.5
*	25100115	MULCH, METHOD 2	ACRE	0.8	0.2	0.1	0.5
*	25100630	EROSION CONTROL BLANKET	SQ YD	3,096.0	841.0	429.0	1,826.0
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75.0	17.5	9.1	48.4
	28000305	TEMPORARY DITCH CHECKS	FOOT	128.0	32.0	32.0	64.0
	28000400	PERIMETER EROSION BARRIER	FOOT	1,210.0	310.0	180.0	720.0
	28000500	INLET AND PIPE PROTECTION	EACH	4.0		4.0	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	744	329	196	219
	28100201	STONE RIPRAP, CLASS A1	TON	550.0	224.8	125.6	199.6
	28200200	FILTER FABRIC	SQ YD	1,457.0	616.0	357.0	484.0
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	21.0		21.0	
	44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	460.0	195.7	107.7	156.6
	44201299	DOWEL BARS 1 1/2"	EACH	280.0	100.0	80.0	100.0
	44213100	PAVEMENT FABRIC	SQ YD	460.0	195.7	107.7	156.6
	44213200	SAW CUTS	FOOT	44.0		44.0	
	44213208	TIE BARS 1 1/4"	EACH	94.0	40.0	22.0	32.0
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	167.0	71.1	39.2	56.7

LOCATION OF WORK:
FUNDING BREAKOUT:
CONSTRUCTION TYPE CODE:

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	4
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD 80% FED. / 20% STATE 0011 QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-8606 80% FED. / 20% STATE 0040 QUANTITY	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2006 80% FED. / 20% STATE 0011 QUANTITY
	LOCATION OF WORK:			PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2007		
	FUNDING BREAKOUT:			80% FED. / 20% STATE		
	CONSTRUCTION TYPE CODE:			0011	0040	0011
50100300	REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1.0	1.0		
50100400	REMOVAL OF EXISTING STRUCTURES NO.2	EACH	1.0		1.0	
50100500	REMOVAL OF EXISTING STRUCTURES NO.3	EACH	1.0			1.0
50105220	PIPE CULVERT REMOVAL	FOOT	78.0		78.0	
50200100	STRUCTURE EXCAVATION	CU YD	1,100.0	410.4	153.6	536.0
51500100	NAME PLATES	EACH	3.0	1.0	1.0	1.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO.1	EACH	2.0	2.0		
54001002	BOX CULVERT END SECTIONS, CULVERT NO.2	EACH	2.0		2.0	
54001003	BOX CULVERT END SECTIONS, CULVERT NO.3	EACH	2.0			2.0
54011210	PRECAST CONCRETE BOX CULVERTS 12'X10'	FOOT	128.0			128.0
54021209	PRECAST CONCRETE BOX CULVERTS 12'X9' (M273)	FOOT	55.0		55.0	
54021210	PRECAST CONCRETE BOX CULVERTS 12'X10' (M273)	FOOT	165.0	165.0		
54213459	END SECTIONS 24"	EACH	4.0		4.0	
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	78.0		78.0	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	400.0			400.0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4.0			4.0
63500105	DELINEATORS	EACH	5.0	2.0	3.0	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3.0	1.0	1.0	1.0
67100100	MOBILIZATION	L SUM	1.0	0.4	0.3	0.3
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.4	0.3	0.3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.4	0.3	0.3
70300100	SHORT TERM PAVEMENT MARKING	FOOT	20.0	8.0	4.0	8.0

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	108-1 & 118-1	PIATT	88	5
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO.	DESCRIPTION	LOCATION OF WORK:	PIATT CO. FAS 1531 MONTICELLO-CISCO RD	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2007	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-8606	PIATT CO. FAS 1531 MONTICELLO-CISCO RD S.N. 074-2006
			FUNDING BREAKOUT:	80% FED. / 20% STATE	80% FED. / 20% STATE	80% FED. / 20% STATE	80% FED. / 20% STATE
			CONSTRUCTION TYPE CODE:	TOTAL	0011	0040	0011
			UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7.0	3.0	1.0	3.0
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	426.0	180.0	98.0	148.0
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8.0			8.0
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0			4.0
*	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	20.0	7.0	6.0	7.0
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	147.0	98.0		49.0
	Z0038700	PERMANENT BENCH MARKS	EACH	3.0	1.0	1.0	1.0
~~*~~	~~70073000~~	~~TEMPORARY SOIL RETENTION SYSTEM~~	~~SQ FT~~	~~420.0~~			~~420.0~~

* SPECIALTY ITEMS

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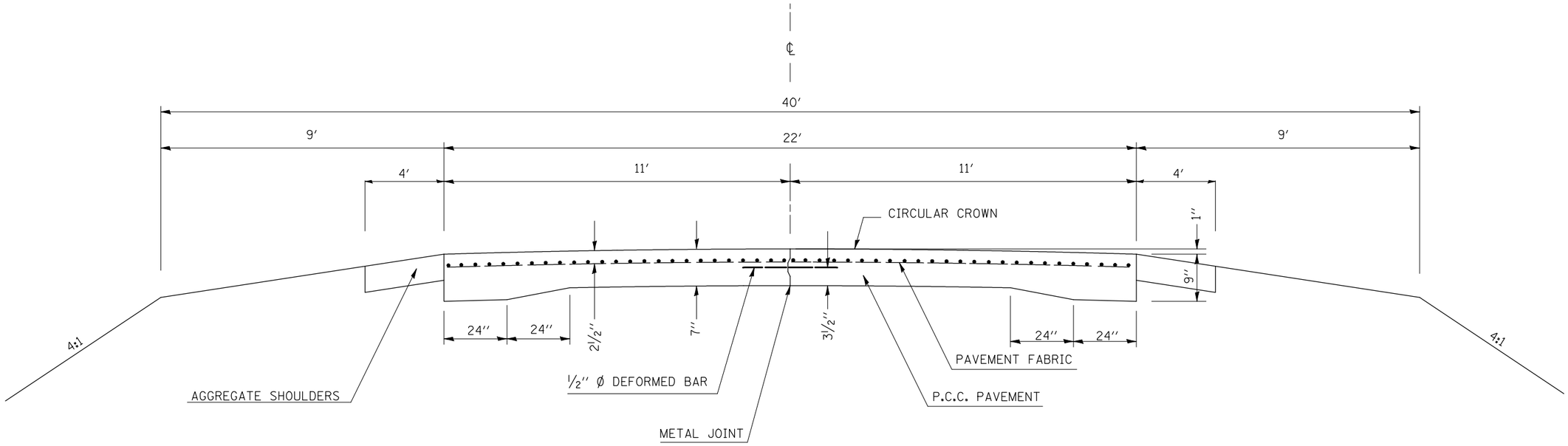
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

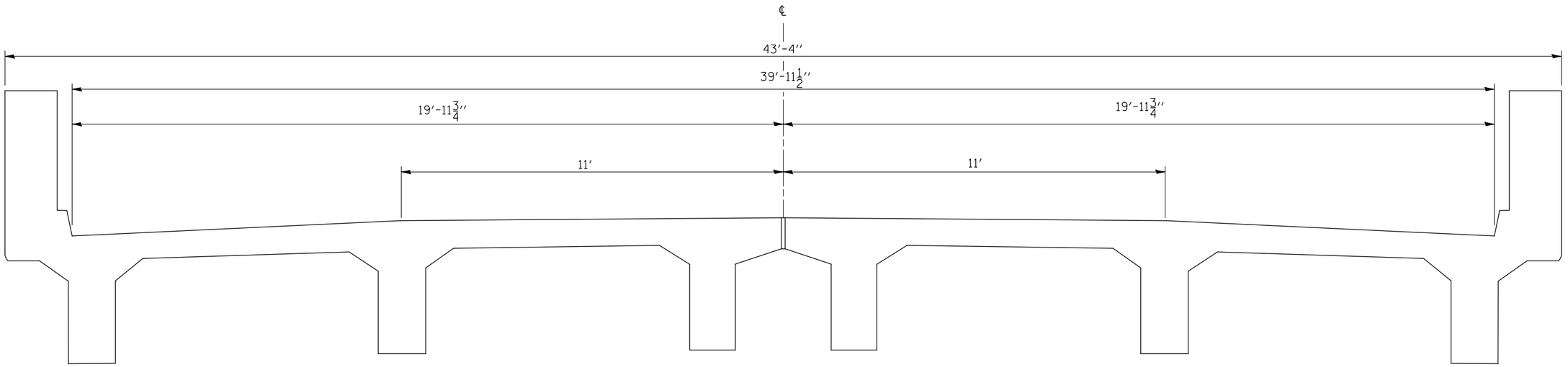
EXISTING ROADWAY TYPICAL CROSS SECTION

FAS 1531 (OLD IL 47)



EXISTING BRIDGE TYPICAL CROSS SECTION

S.N. 074-0017



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

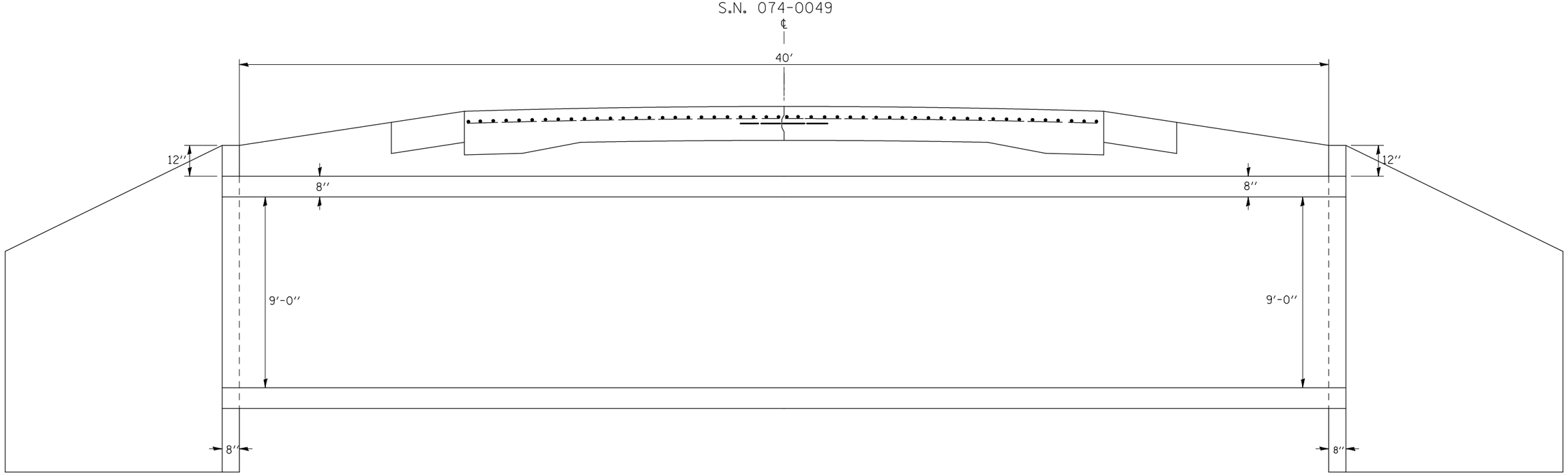
EXISTING TYPICAL CROSS SECTIONS

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	7
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

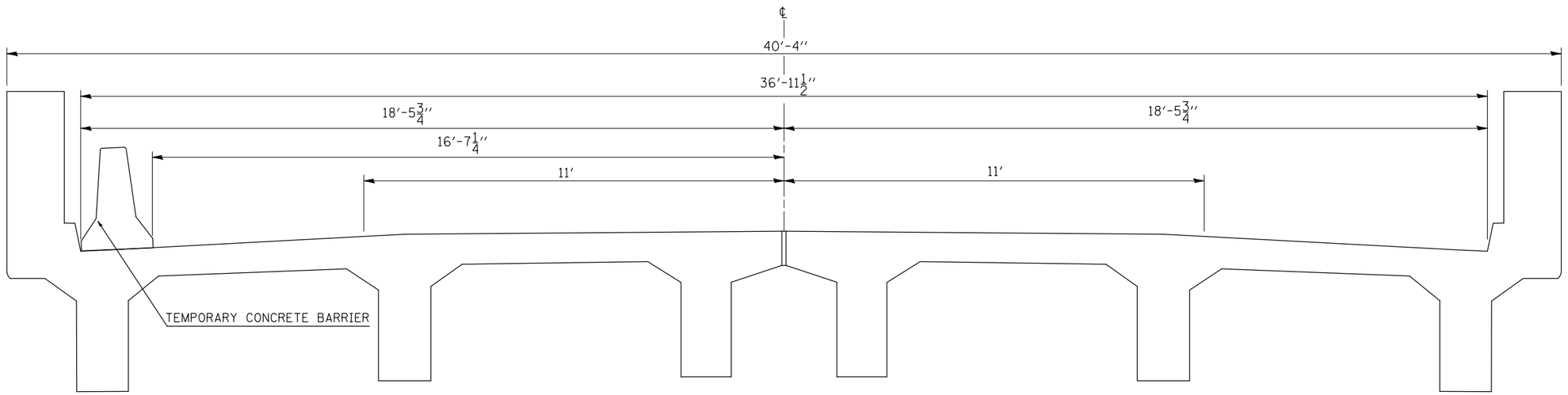
EXISTING BRIDGE TYPICAL CROSS SECTION

S.N. 074-0049



EXISTING BRIDGE TYPICAL CROSS SECTION

S.N. 074-0018



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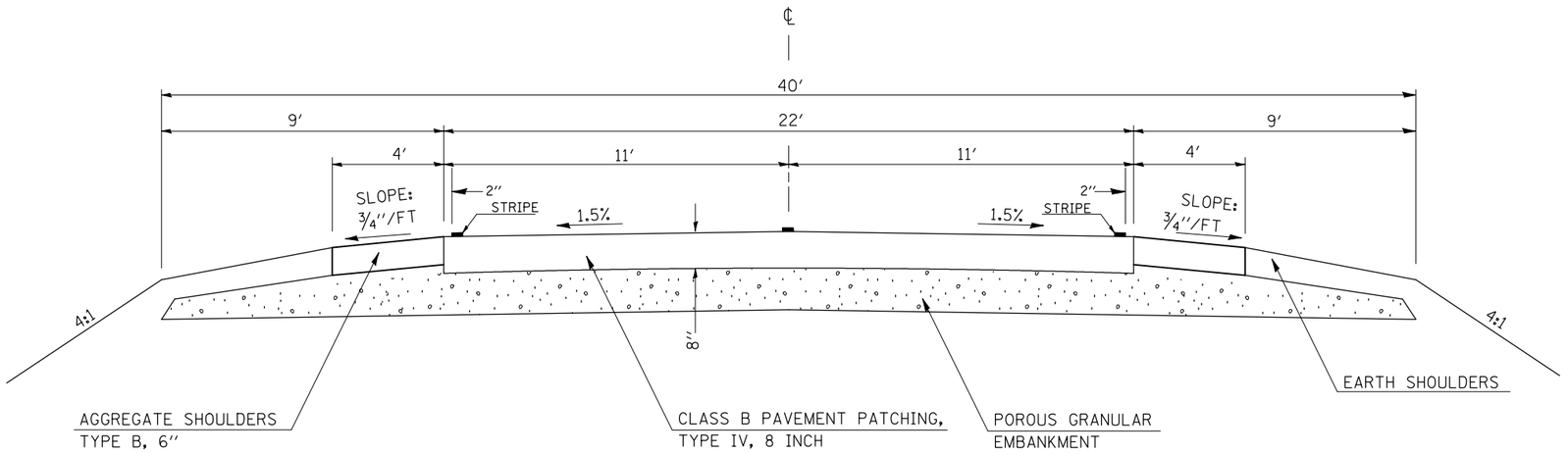
	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -			1531	10B-1 & 11B-1	PIATT	88	8
	PLOT DATE = 10/20/2010	CHECKED -	REVISED -					CONTRACT NO. 70458		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

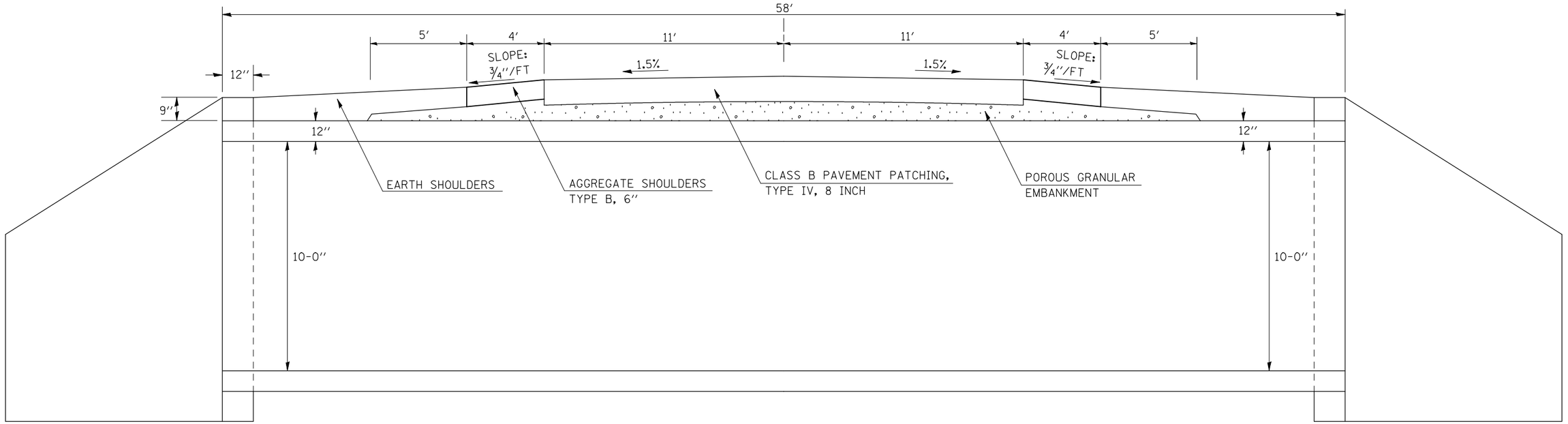
PROPOSED ROADWAY TYPICAL CROSS SECTION

FAS 1531 (OLD IL 47)



PROPOSED BOX CULVERT TYPICAL CROSS SECTION

S.N. 074-2007
℄ STA. 164+40



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

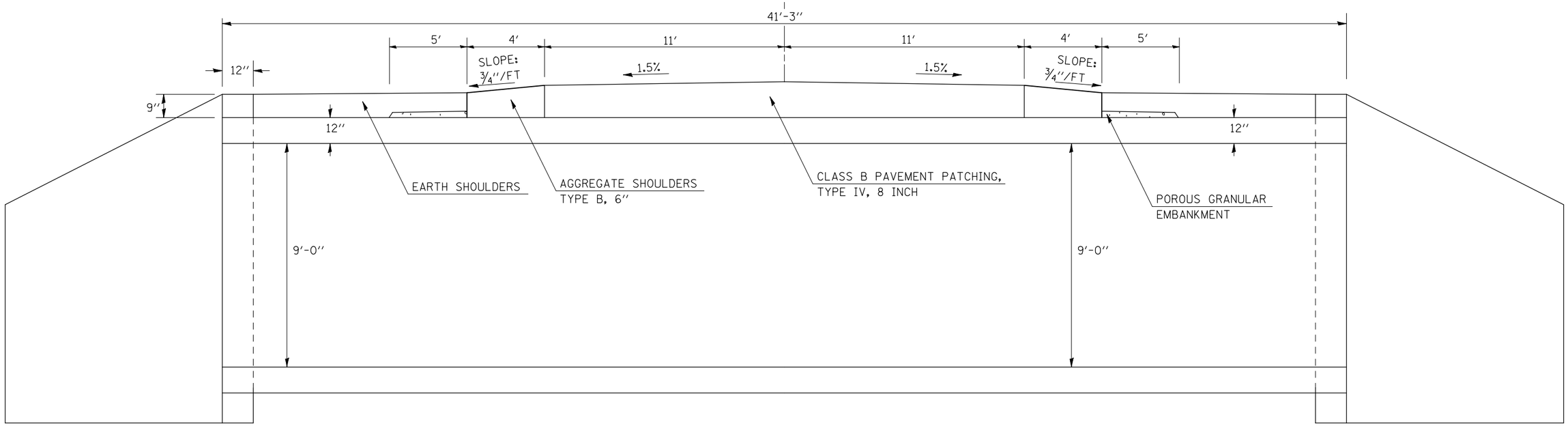
PROPOSED TYPICAL CROSS SECTION

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	9
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

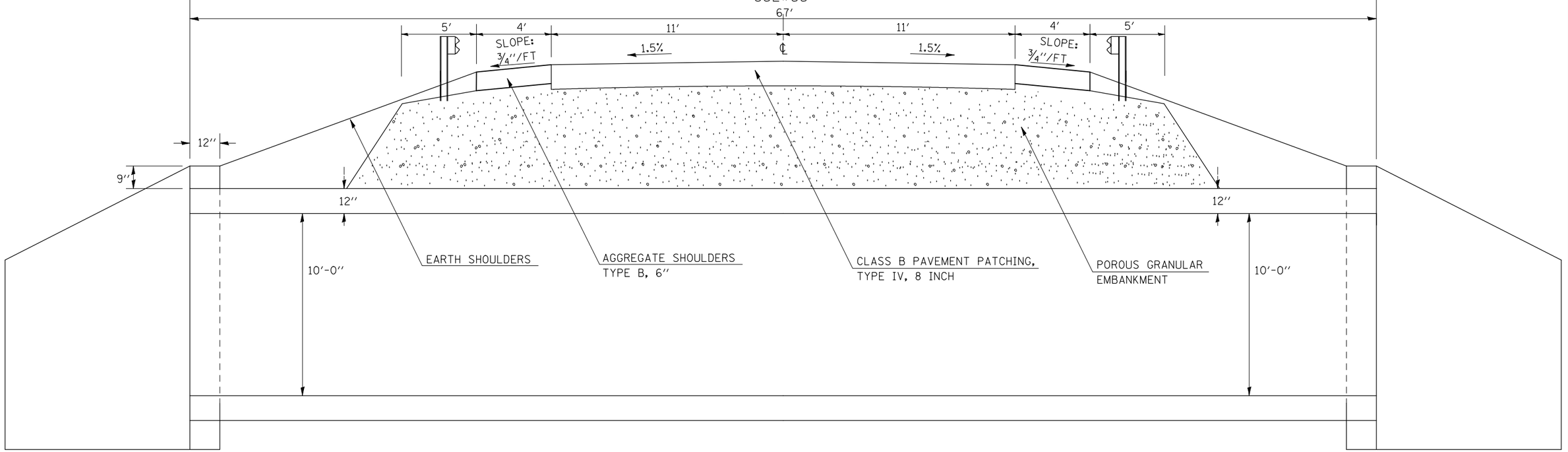
PROPOSED BOX CULVERT TYPICAL CROSS SECTION

S.N. 074-8606
℄ STA. 241+65



PROPOSED BOX CULVERT TYPICAL CROSS SECTION

S.N. 074-2006
352+55



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL CROSS SECTION

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	10
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE								
LOCATION	STATION	TO	STATION	20200100 EARTH EXCAVATION (CU YD)	50200100 STRUCTURE EXCAVATION (CU YD)	EARTH EX (ADJ. FOR SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	20400800 BALANCE (-) FILL (CU YD)
S.N. 074-2007 (LT)	163+25.00	TO	165+25.00	173.00	205.20	326.9	97.0	229.9
S.N. 074-2007 (RT)	163+25.00	TO	165+25.00	101.00	205.20	254.9	133.0	121.9
S.N. 074-8606 (LT)	241+25.00	TO	242+00.00	61.00	76.80	118.6	13.0	105.6
S.N. 074-8606 (RT)	240+75.00	TO	242+50.00	100.00	76.80	157.6	99.0	58.6
S.N. 074-2006(LT)	351+25.00	TO	354+75.00	121.00	268.00	322	230.0	92
S.N. 074-2006 (RT)	350+00.00	TO	354+00.00	83.00	268.00	284	177.0	107
			TOTAL =	639.00	1100.00	1464.00	749.00	715.00
			USE =	639.0	1100.0	1464.0	749.0	715.0

NOTES:
1. QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25%
2. NO SHRINKAGE FACTOR APPLIED TO THE EMBANKMENT QUANTITY
3. NO PAYMENT WILL BE ALLOWED FOR OVERHAUL

20200100-EARTH EXCAVATION 639.0 CU YD
50200100-STRUCTURE EXCAVATION 1100.0 CU YD

21301052 EXPLORATION TRENCH 52" DEPTH					
SIDE	STATION	TO	STATION	TRENCHES	LENGTH (FOOT)
LT	163+00.00	TO	164+25.00	2 @ 30 FEET	60.0
LT	164+50.00	TO	165+25.00	1 @ 45 FEET	45.0
RT	163+00.00	TO	164+25.00	2 @ 30 FEET	60.0
RT	164+50.00	TO	165+25.00	1 @ 45 FEET	45.0
LT	241+00.00	TO	242+00.00	2 @ 30 FEET	60.0
RT	241+00.00	TO	242+00.00	2 @ 30 FEET	60.0
RT	241+00.00	TO	242+00.00	2 @ 30 FEET	60.0
RT	350+00.00	TO	352+50.00	2 @ 45 FEET	90.0
LT	351+00.00	TO	352+50.00	1 @ 75 FEET	75.0
LT	352+75.00	TO	354+75.00	2 @ 45 FEET	90.0
RT	352+75.00	TO	354+00.00	2 @ 30 FEET	60.0
				TOTAL =	645.0
				USE =	645.0

28000400 PERIMETER EROSION BARRIER					
SIDE	OFFSET(FT)	STATION	TO	STATION	FOOT
LT	60	163+50.00	TO	164+30.00	80.0
RT	50	163+50.00	TO	164+40.00	90.0
LT	60	164+50.00	TO	165+25.00	75.0
RT	50	164+60.00	TO	165+25.00	65.0
LT	50	241+40.00	TO	241+90.00	50.0
RT	50	241+00.00	TO	242+30.00	130.0
RT	50	350+00.00	TO	352+50.00	250.0
LT	60	351+00.00	TO	352+30.00	130.0
LT	60	352+60.00	TO	354+70.00	210.0
RT	50	352+70.00	TO	354+00.00	130.0
				TOTAL =	1210.0
				USE =	1210.0

28000305 TEMPORARY DITCH CHECKS		
SIDE	STATION	FOOT
LT	164+00.00	8.0
RT	164+00.00	8.0
LT	165+00.00	8.0
RT	165+00.00	8.0
LT	241+00.00	8.0
RT	241+40.00	8.0
RT	241+90.00	8.0
LT	242+25.00	8.0
RT	350+00.00	8.0
LT	351+25.00	8.0
LT	352+00.00	8.0
RT	352+00.00	8.0
RT	353+00.00	8.0
LT	353+00.00	8.0
RT	354+00.00	8.0
LT	355+00.00	8.0
TOTAL =		128.0
USE =		128.0

Z0073002 TEMPORARY SOIL RETENTION SYSTEM							
LOCATION	SIDE	STATION	TO	STATION	LENGTH (FT)	HEIGHT (FT)	AREA (SQ FT)
S.N. 074-2006	LT	352+30.00	TO	352+70.00	40.00	6.00	240.0
S.N. 074-2006	RT	352+30.00	TO	352+70.00	40.00	6.00	240.0
						TOTAL =	480.0
						USE =	480.0

50105220 PIPE CULVERT REMOVAL				
SIDE	STATION	TO	STATION	(FOOT)
LT	241+08.50	TO	241+50.70	42.2
LT	241+80.00	TO	242+15.80	35.8
			TOTAL =	78.0

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	11
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

LANDSCAPING SCHEDULE												
LOCATION	SIDE	STATION	TO	STATION	AREA (SQ FT)	25000200 SEEDING CLASS 2 (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (POUND)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (POUND)	25000600 POTASSIUM FERTILIZER NUTRIENT (POUND)	25100115 MULCH METHOD 2 (ACRE)	25100630 EROSION CONTROL BLANKET (SQ YD)	28000250 TEMPORARY EROSION SEEDING (POUND)
S.N. 074-2007	LT	163+50.00	TO	165+25.00	4,130.00	0.09	8.5	8.5	8.5	0.09	458.9	9.5
S.N. 074-2007	RT	163+50.00	TO	165+25.00	3,434.00	0.08	7.1	7.1	7.1	0.08	381.6	7.9
S.N. 074-8606	LT	241+40.00	TO	241+95.00	1,248.00	0.03	2.6	2.6	2.6	0.03	138.4	2.9
S.N. 074-8606	RT	241+00.00	TO	242+30.00	2,618.00	0.06	5.4	5.4	5.4	0.06	290.9	6.0
S.N. 074-2006	LT	351+25.00	TO	354+70.00	10,702.00	0.25	22.1	22.1	22.1	0.25	911.5	24.8
S.N. 074-2006	RT	350+00.00	TO	354+00.00	10,221.00	0.23	21.1	21.1	21.1	0.23	914.1	23.5
					TOTAL =	0.74	66.8	66.8	66.8	0.74	3095.4	74.3
					USE =	0.8	67.5	67.5	67.5	0.8	3096.0	75.0

PATCHING SCHEDULE										
44200944 CLASS B PATCHES, TYPE IV, 8 INCH							44213100 PAVEMENT FABRIC (SQ YD)	44213200 SAW CUTS (FOOT)	Z0017100 DOWEL BARS (EACH)	Z0075300 TIE BARS (EACH)
LOCATION	STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	(SQ YD)				
S.N. 074-2007	164+00.00	TO	164+80.00	80.0	22.0	195.6	195.6	0.0	100.0	40.0
S.N. 074-8606	241+43.00	TO	241+87.00	44.0	22.0	107.6	107.6	44.0	80.0	22.0
S.N. 074-2006	352+18.00	TO	352+82.00	64.0	22.0	156.4	156.4	0.0	100.0	32.0
					TOTAL =	459.6	459.6	44.0	280.0	94.0
					USE =	460.0	460.0	44.0	280.0	94.0

28000500 INLET AND PIPE PROTECTION		
SIDE	STATION	(EACH)
LT	241+07.00	1.0
LT	241+51.00	1.0
LT	241+80.00	1.0
LT	242+18.00	1.0
	TOTAL =	4.0

20700220 POROUS GRANULAR EMBANKMENT						
LOCATION	STATION	TO	STATION	AREA (SQ FT)	WIDTH (FOOT)	EMBANKMENT (CU YD)
S.N. 074-2007	164+02.00	TO	164+78.00	294.5	40.0	436.3
S.N. 074-8606	241+45.00	TO	241+85.00	165.0	40.0	244.4
S.N. 074-2006	352+20.00	TO	352+80.00	485.7	40.0	719.6
					TOTAL =	1400.3
					USE =	1400.0

RIPRAP SCHEDULE			
LOCATION	28100107 STONE RIPRAP, CLASS A4 (SQ YD)	28100201 STONE RIPRAP, CLASS A1 (TON)	28200200 FILTER FABRIC (SQ YD)
S.N. 074-2007	316.0	224.8	616.0
S.N. 074-8606	189.0	125.6	357.0
S.N. 074-2006	218.0	199.6	484.0
TOTAL =	723.0	550.0	1457.0
USE=	723.0	550.0	1457.0

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	12
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

40200800 AGGREGATE SURFACE COURSE, TYPE B						
SIDE	STATION	LENGTH (FOOT)	WIDTH (FOOT)	DEPTH (INCHES)	AREA (CU YD)	QUANTITY (TON)
LT	241+29.30	35.0	25.0	2½	6.81	12.3
LT	242+02.50	35.0	17.0	2½	4.63	8.3
					TOTAL =	20.6
					USE =	21.0

48101500 AGGREGATE SHOULDERS, TYPE B 6"						
SIDE	STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	(SQ YD)
LT	164+00.00	TO	164+80.00	80.0	4.0	35.6
RT	164+00.00	TO	164+80.00	80.0	4.0	35.6
LT	241+43.00	TO	241+87.00	44.0	4.0	19.6
RT	241+43.00	TO	241+87.00	44.0	4.0	19.6
LT	352+18.00	TO	352+82.00	64.0	4.0	28.4
RT	352+18.00	TO	352+82.00	64.0	4.0	28.4
					TOTAL =	167.1
					USE =	167.0

PAVEMENT MARKING SCHEDULE																	
LOCATION	SIDE	78001110 PAVEMENT MARKING LINE, 4"						70300100 SHORT TERM PAVEMENT MARKING				70301000 WORK ZONE PAVEMENT MARKING REMOVAL					
		STATION	TO	STATION	(FEET)	(WHITE) (FOOT)	(YELLOW) (FOOT)	STATION	TO	STATION	LENGTH (FOOT)	STATION	TO	STATION	(FOOT)	AREA (SQ FT)	
S.N. 074-2007	LT	164+00.00	TO	164+80.00	80.0	80.0	20.0	164+00.00	TO	164+80.00	8.0	164+00.00	TO	164+80.00	8.0	2.6	
	RT	164+00.00	TO	164+80.00	80.0	80.0											
S.N. 074-8606	LT	241+43.00	TO	241+87.00	44.0	44.0	10.0	241+43.00	TO	241+87.00	4.0	241+43.00	TO	241+87.00	4.0	1.3	
	RT	241+43.00	TO	241+87.00	44.0	44.0											
S.N. 074-2006	LT	352+18.00	TO	352+82.00	64.0	64.0	20.0	352+18.00	TO	352+82.00	8.0	352+18.00	TO	352+82.00	8.0	2.6	
	RT	352+18.00	TO	352+82.00	64.0	64.0											
					TOTAL =	376.0	50.0				20.0					6.6	
					USE =	376.0	50.0				20.0					7.0	

PROPOSED GUARDRAIL SCHEDULE												
LOCATION	SIDE	APP/DEP	63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED				78201000 TERMINAL MARKER DIR. APPLIED	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS				78200410 GUARDRAIL MARKERS, TYPE A
			STATION	TO	STATION	(EACH)	(EACH)	STATION	TO	STATION	LENGTH (FOOT)	EACH
S.N. 074-2006	RT	APP	350+47.50	TO	350+97.50	1.0	1.0	350+97.50	TO	352+97.50	200.0	4.0
	RT	DEP	352+97.50	TO	353+47.50	1.0	1.0					
	LT	APP	351+62.50	TO	352+12.50	1.0	1.0	352+12.50	TO	354+12.50	200.0	4.0
	LT	DEP	354+12.50	TO	354+62.50	1.0	1.0					
						TOTALS =	4.0	4.0			400.0	8.0
						USE =	4.0	4.0			400.0	8.0

Z0038700 PERM. BENCHMARKS	
LOCATION	BENCHMARKS (EACH)
S.N. 074-2007	1.0
S.N. 074-8606	1.0
S.N. 074-2006	1.0
TOTAL =	3.0
USE =	3.0

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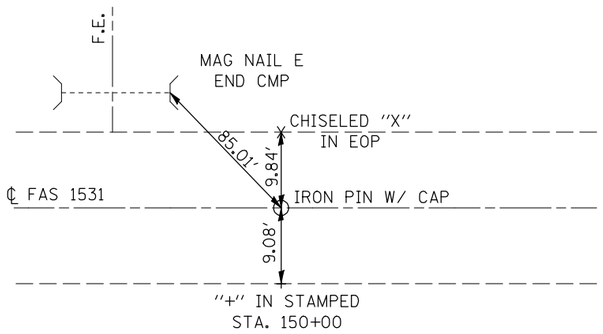
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

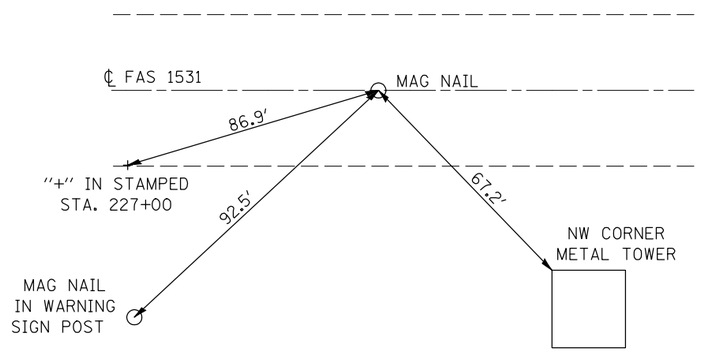
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	13
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

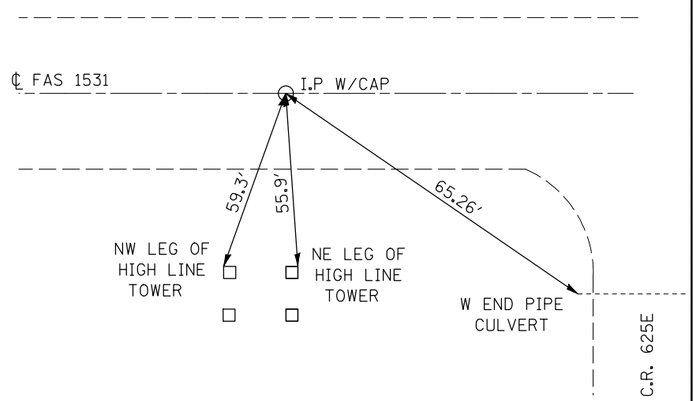
P.O.T. #1
STA. 150 + 01.50



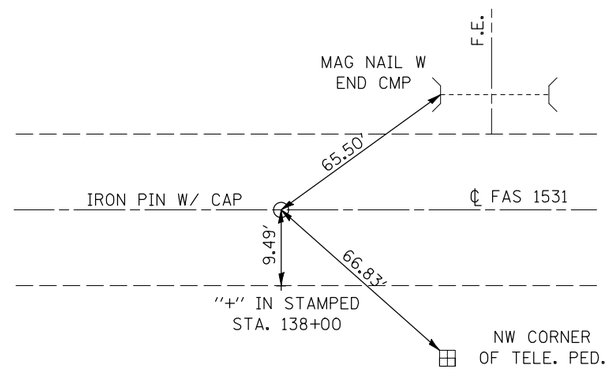
P.O.T. #33
STA. 227 + 85.98



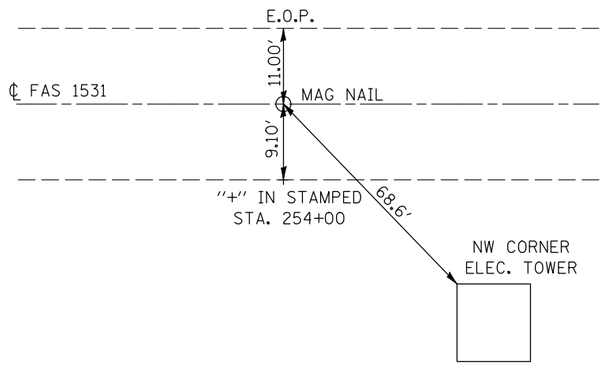
P.O.T. #4
STA. 339 + 92.85



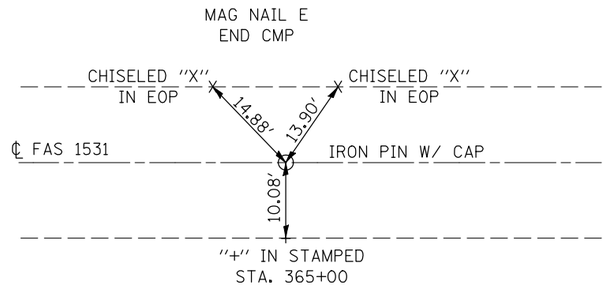
P.O.T. #3
STA. 183 + 03.68



P.O.T. #35
STA. 253 + 99.28



P.O.T. #6
STA. 364 + 99.20



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTERLINE TIE POINTS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	14
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

BENCHMARK: 4732-1
CHISELED SQUARE ON THE TOP OF THE
NORTHWEST CORNER OF STRUCTURE 074-0017
STATION 164+18.72, 21.95' LT., ELEVATION 678.043

SEC. 13, T. 18 N., R. 4 E., 3rd P.M.

EXISTING S.N. 074-0017
REINFORCED CONCRETE GIRDER
℄ STATION 164+40
SINGLE SPAN
SKEW = 0°
REMOVE EXISTING STRUCTURE NO. 1

PROPOSED S.N. 074-2007
℄ STATION 164+40
PRECAST BOX CULVERT WITH
CAST-IN-PLACE END SECTIONS &
SHEET PILE WINGWALLS
TRIPLE 12' X 10' X 58'
SKEW = 0°

WOLF RUN DITCH

EXISTING R.O.W.

STONE RIPRAP, CLASS A4

10' TYP.

10' TYP.

AGGREGATE SHOULDERS
TYPE B, 6"

EXISTING 20' APPROACH SLAB
HS 1688, METHOD I (TYPICAL EACH SIDE)
(TO BE REMOVED)

℄ F.A.S ROUTE 1531
(CISCO ROAD)

162 163 164 165+00 166 167

20+00

+00 +80

CLASS B PAVEMENT
PATCHING, TYPE IV, 8 INCH

60' 50' 4' 11' 11' 4' 50'

EXISTING R.O.W.

STONE RIPRAP, CLASS A4

FLOW

N

1"=20'
0' 5' 10' 15' 20' 40' 60'

STA 164+00 MATCH EXISTING

STA 164+80 MATCH EXISTING

678 676 674 672 670 668 666 664 662

℄ F.A.S ROUTE 1531 (CISCO ROAD)

+0.175%

8" CLASS B PAVEMENT PATCHING

EXISTING LOW BEAM

DESIGN HIGH WATER ELEV. = 673.0

POROUS GRANULAR EMBANKMENT

EXISTING OPENING

PROPOSED UPSTREAM INVERT = 665.10
PROPOSED DOWNSTREAM INVERT = 664.85

6" POROUS GRANULAR MATERIAL

18" ADDITIONAL UNDERCUT

TOP OF EXISTING FOOTING ELEV. = 663.67

BOTTOM OF EXISTING FOOTING ELEV. = 662.00

677.41 677.41 677.40 677.44 677.47 677.51 677.51 677.48 677.44 677.40 677.37 **677.37** 677.52 **677.40** 677.54 **677.43** 677.47 **677.47** 677.41 677.51 677.62 677.73 677.85 677.99 678.13 678.28 678.42 678.65

161+50 162+00 162+50 163+00 163+50 164+00 164+50 165+00 165+50 166+00 166+50 167+00

Proposed Low Grade Elev. = 677.41 @ Sta. 164+40.00

Existing Low Grade Elev. = 677.37 @ Sta. 164+00.00

Drainage Area = 6.17 mi.²									
Flood	*Freq.*	*Q*	*Opening Sq. Ft.*		*Natural*	*Head - Ft.*		*Headwater Elevation*	
	Yr.	*C.F.S.*	*Existing*	*Proposed*	*H.W.E.*	*Existing*	*Proposed*	*Existing*	*Proposed*
	10	*558*	*196*	*245*	*671.9*	*0*	*0*	*671.9*	*671.9*
Design	*50*	*874*	*240*	*284*	*673.0*	*0.2*	*0.1*	*673.2*	*673.1*
Base	*100*	*1012*	*256*	*299*	*673.4*	*0.3*	*0.2*	*673.7*	*673.6*
Overtopping									
Max. Calc.	*500*	*1339*	*272*	*328*	*674.2*	*0.6*	*0.3*	*674.8*	*674.5*

10 YEAR VELOCITIY THROUGH EXISTING BRIDGE = *2.8 cfs* ***10 YEAR VELOCITIY THROUGH PROPOSED BRIDGE =*** *2.2 cfs*

ALL-TIME H.W.E. & DATE: Unkown

PLAN / PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BAR. NOTED, STRUCTURE NOTATNS CHKD, DATE, BY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 074-2007 PLAN & PROFILE

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	15
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SEC. 17, T. 18 N., R. 5 E., 3rd P.M.

EXISTING S.N. 074-0049
STATION 241+65
R.C. BOX CULVERT 2 @ 10′ x 9′
SKEW = 0°
REMOVE EXISTING STRUCTURE NO. 2

PIPE CULVERTS, CLASS D
TYPE 2, 24″ WITH END SECTIONS
U.S.F.L. = 680.0
D.S.F.L. = 676.0

STONE RIPRAP,
CLASS A4

STREAM

PROPOSED S.N. 074-8606
℄ STATION 241+65
PRECAST BOX CULVERT WITH
CAST-IN-PLACE END SECTIONS &
SHEET PILE WINGWALLS
SINGLE 12′ x 9′ x 58′
SKEW = 0°

N

EXISTING R.O.W.

AGGREGATE SURFACE COURSE, TYPE B

EXISTING PIPE CULVERT
(TO BE REMOVED)

+29.3 F.E.

+02.5 F.E.

PIPE CULVERTS, CLASS D U.S.F.L. =680.0
TYPE 2, 24″ WITH END SECTIONS D.S.F.L. =676.0

AGGREGATE SURFACE COURSE, TYPE B

EXISTING PIPE CULVERT
(TO BE REMOVED)

EXISTING R.O.W.

50′

4′
11′
11′
4′

239 | ℄ F.A.S ROUTE 1531 (CISCO ROAD) | 240+00 | 241 | 242 | 243 | 244 | 245+00

CLASS B PAVEMENT
PATCHING, TYPE IV, 8 INCH

+43

+87

AGGREGATE SHOULDERS
TYPE B, 6″

10′ TYP.

EXISTING R.O.W.

TOWER

STONE RIPRAP,
CLASS A4

FLOW

BENCHMARK: 4732-8
CHISELED SQUARE ON THE NORTHWEST CORNER
OF HEADWALL OF STRUCTURE 074-0049
STATION 241+53.7, 20.4′ LT., ELEVATION 685.34

1″=20′
0′ 5′ 10′ 15′ 20′ 40′ 60′

STA. 241+43
MATCH EXISTING

STA. 241+87
MATCH EXISTING

+0.08%

8″ PAVEMENT PATCH

EXISTING
LOW BEAM

DESIGN HIGH WATER ELEV = 682.9

POROUS GRANULAR EMBANKMENT

EXISTING
OPENING

EXISTING FLOWLINE ELEV. = 676.13

BOTTOM OF EXISTING CULVERT ELEV. = 675.38

PROPOSED UPSTREAM INVERT = 674.78

PROPOSED DOWNSTREAM INVERT = 674.72

6″ POROUS GRANULAR MATERIAL

18 ″ ADDITIONAL UNDERCUT

688 686 684 682 680 678 676 674

685.27 685.28 685.28 685.29 685.30 685.32 685.34 685.36 685.38 685.41 685.38 685.42 685.46 685.46 685.46 685.46 685.46 685.48 685.51 685.53 685.55 685.61 685.66 685.71 685.77

239+00 239+50 240+00 240+50 241+00 241+50 242+00 242+50 243+00 243+50 244+00 244+50 245+00

Existing Low Grade Elev. = 685.41 ft. @ Sta. 241+54.55

Proposed Low Grade Elev. = 685.41 ft. @ Sta. 241+54.55

Drainage Area = 1.07 mi.²

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Existing	Opening Sq. Ft. Proposed	Natural H.W.E.	Head - Ft. Existing	Head - Ft. Proposed	Headwater Elevation Existing	Headwater Elevation Proposed
	10	145	112	71	681.9	0.0	0.1	681.9	682.0
Design	50	222	132	83	682.9	0.1	0.4	683.0	683.3
Base	100	255	139	87	683.3	0.1	0.5	683.4	683.8
Overtopping									
Max. Calc.	500	332	151	94	684.0	0.3	1.0	684.3	685.0

10 YEAR VELOCITIY THROUGH EXISTING BRIDGE = 2.48 cfs

10 YEAR VELOCITIY THROUGH PROPOSED BRIDGE = 4.56 cfs

ALL-TIME H.W.E. & DATE: Unknown

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2010	DATE -	REVISED -

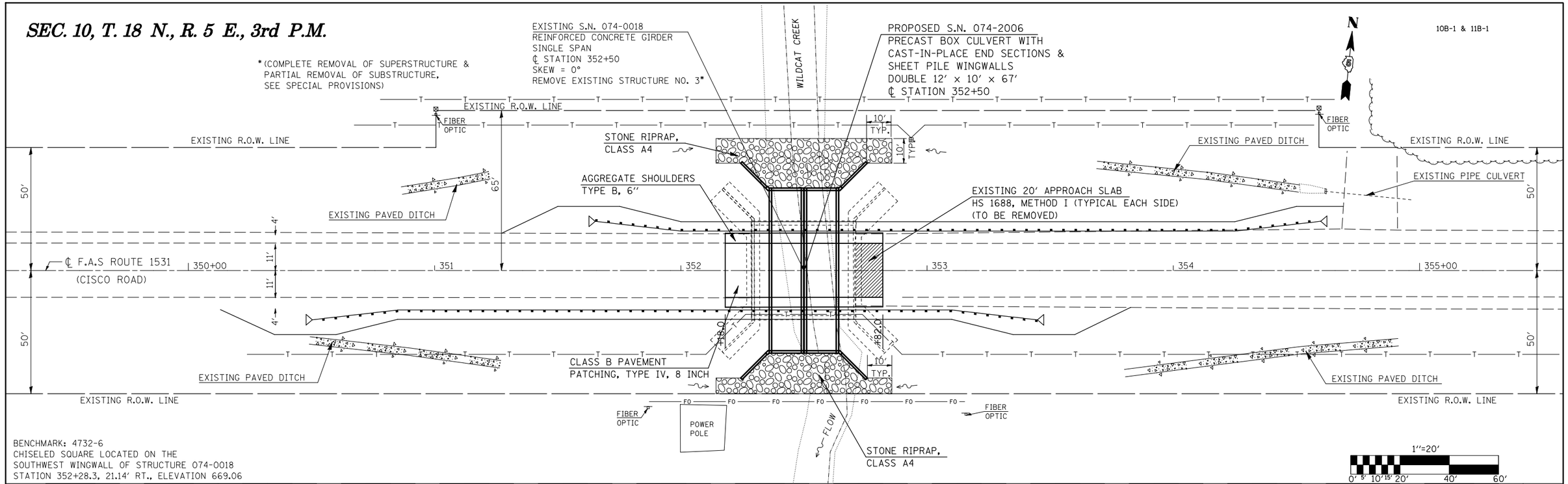
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 074-8606 PLAN & PROFILE

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

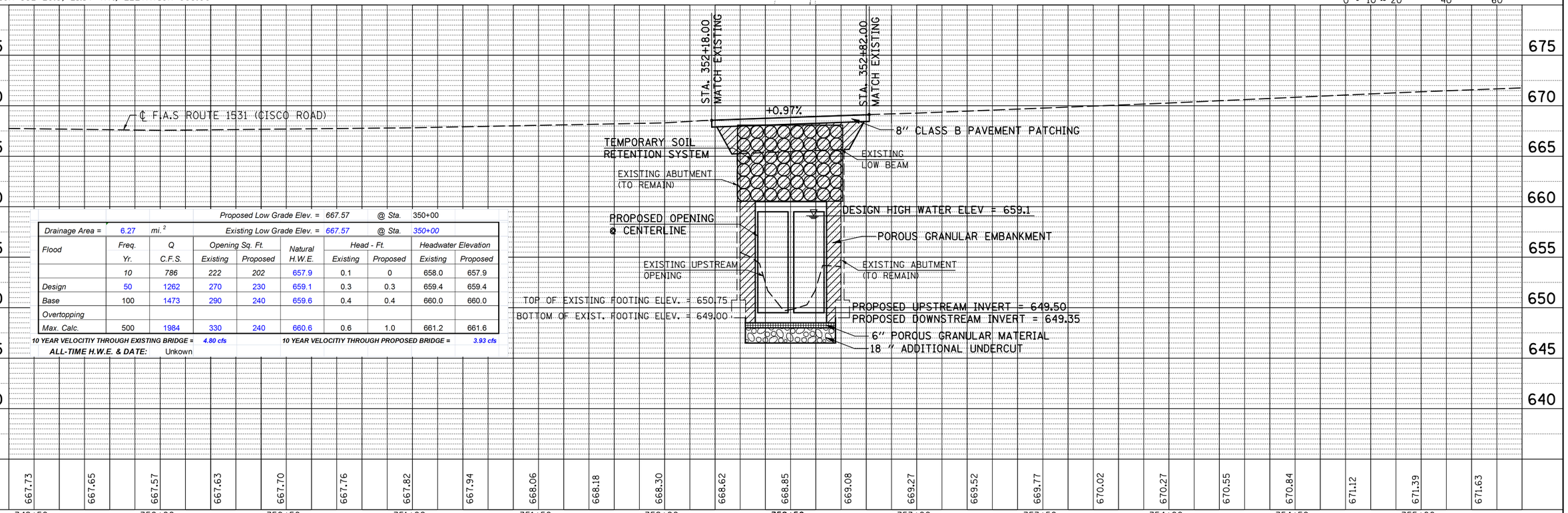
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	16
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

SEC. 10, T. 18 N., R. 5 E., 3rd P.M.



BENCHMARK: 4732-6
CHISELED SQUARE LOCATED ON THE
SOUTHWEST WINGWALL OF STRUCTURE 074-0018
STATION 352+28.3, 21.14′ RT., ELEVATION 669.06

1″=20′
0′ 5′ 10′ 15′ 20′ 40′ 60′



Proposed Low Grade Elev. = 667.57 @ Sta. 350+00
Existing Low Grade Elev. = 667.57 @ Sta. 350+00

Drainage Area = 6.27 mi.²									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Existing	Opening Sq. Ft. Proposed	Natural H.W.E.	Head - Ft. Existing	Head - Ft. Proposed	Headwater Elevation Existing	Headwater Elevation Proposed
	10	786	222	202	657.9	0.1	0	658.0	657.9
Design	50	1262	270	230	659.1	0.3	0.3	659.4	659.4
Base	100	1473	290	240	659.6	0.4	0.4	660.0	660.0
Overtopping									
Max. Calc.	500	1984	330	240	660.6	0.6	1.0	661.2	661.6

10 YEAR VELOCITIY THROUGH EXISTING BRIDGE = 4.80 cfs
10 YEAR VELOCITIY THROUGH PROPOSED BRIDGE = 3.93 cfs
ALL-TIME H.W.E. & DATE: Unkown

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NO'TA'NS CHK'D, BY, DATE

FILE NAME = c:\pw_work\pwidot\coombessf\d0135397\70458design.dgn	USER NAME = coombessf	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ′ / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 074-2006 PLAN & PROFILE

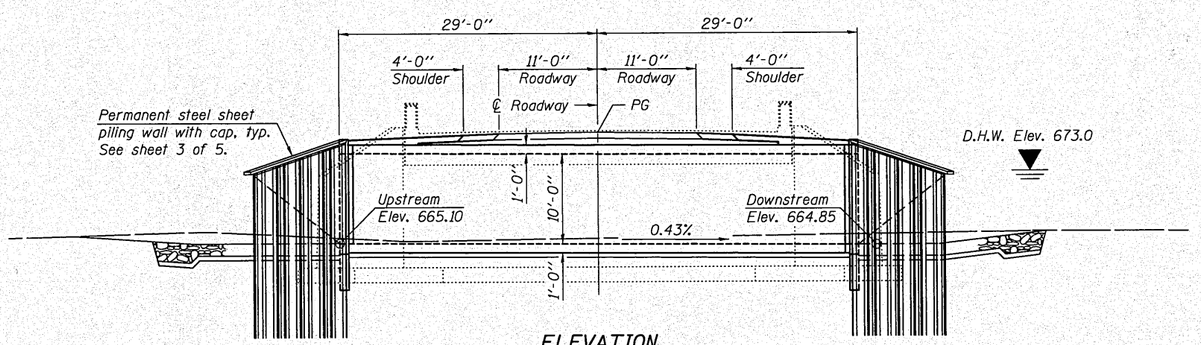
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	17
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

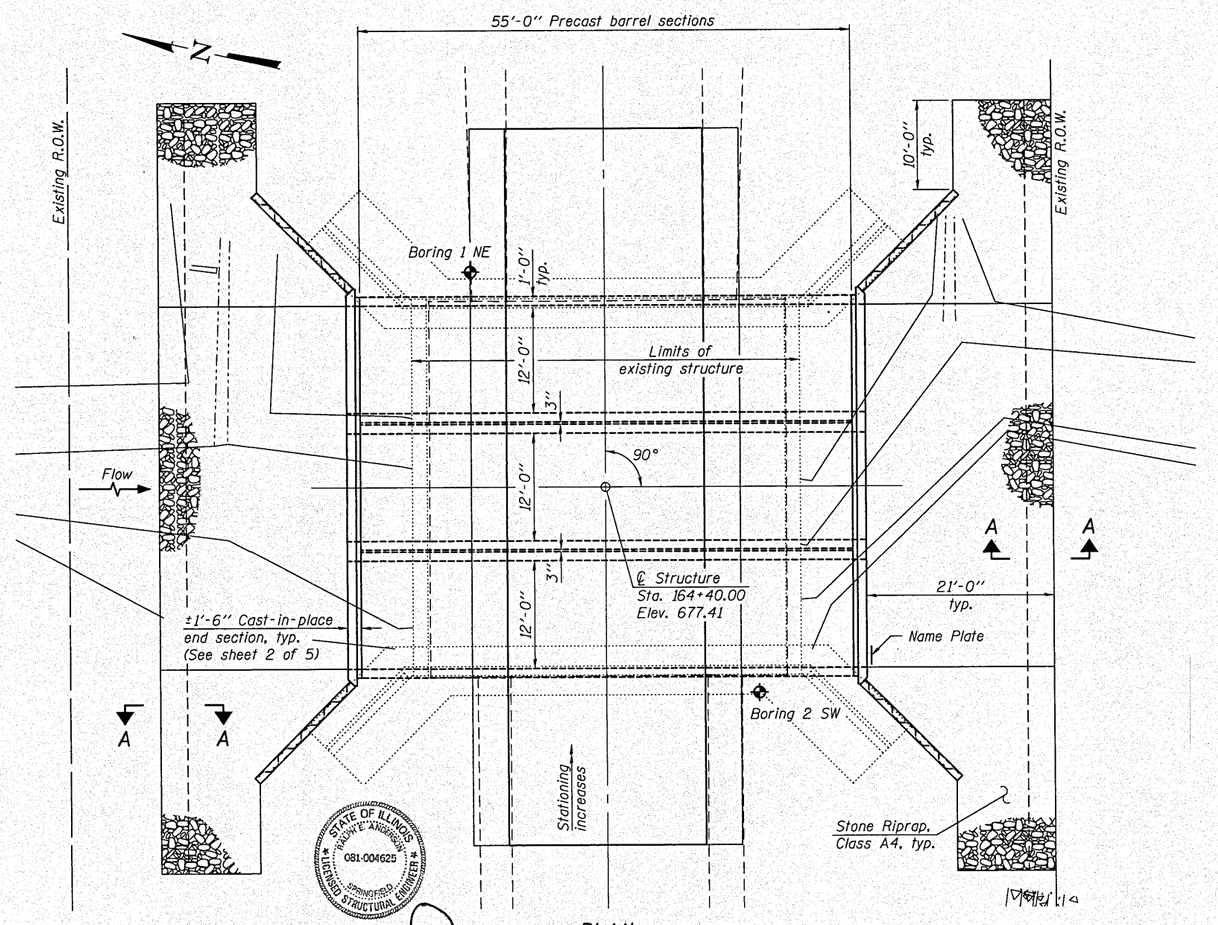
Benchmark: Chiseled square on top of the northwest corner of Structure No. 074-0018. 21.95' Lt. Sta. 164+18.72; Elev. 678.04.

Existing Structure: S.N. 074-0017 was constructed in 1939 at Sta. 164+40 as a single span reinforced concrete girder bridge as F.A. 135, Section 10B in Piatt County. The existing structure is to be completely removed and replaced. The road is to be temporarily closed during construction.

INDEX OF SHEETS



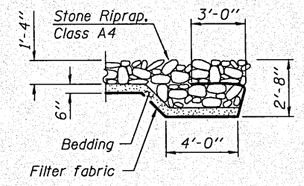
ELEVATION



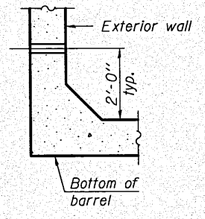
PLAN

CULVERT CONSTRUCTION SEQUENCE

1. Remove existing structure
2. Build cutoff wall
3. Prepare bed
4. Place precast box culvert sections.
5. Form and place concrete in end section
6. Drive sheeting
7. Backfill culvert and wings
8. Install sheet pile cap

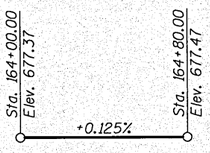


SECTION A-A



DRAIN DETAIL

Provide 3" ϕ drain holes in exterior walls at ±8' cts. See Article 503.11 of the Standard Specifications.

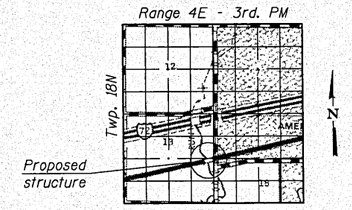


PROFILE GRADE

STATION 164+40.00
BUILT 201 BY
STATE OF ILLINOIS
F.A.S. RTE. 1531 SEC. 10B-1 & 11B-1
LOADING HS 20-44
STRUCTURE NO. 074-2007

NAME PLATE

See Std. 515001



LOCATION SKETCH

GENERAL NOTES

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

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

The design fill height for this structure is less than 2 feet. The precast concrete box culvert sections shall conform to the requirements of AASHTO M273.

The minimum effective section modulus of the permanent sheet pile wall shall be 25 $in.^3/ft.$

The sheet pile cap shall be AASHTO M270 Grade 50W.

Fasteners shall be AASHTO M164 Type 3. Bolts $\frac{1}{2}$" ϕ, holes $\frac{5}{8}$" ϕ.

The Contractor is advised that they may encounter existing substructure (or timber piles). They should bid accordingly and no additional compensation is allowed.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culvert 12' x 10'	Foot	165
Stone Riprap, Class A4	Sq. yd.	329
Filter Fabric	Sq. yd.	329
Permanent Benchmark	Each	1
Porous Granular Embankment	Cu. yd.	421.4

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	661.10	660.85

WATERWAY INFORMATION

Drainage Area = 6.17 $mi.^2$
Proposed Low Grade Elev. 677.41 @ Sta. 164+40.00
Existing Low Grade Elev. 677.37 @ Sta. 164+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	558	196	245	671.9	0	0	671.9	671.9
Design	50	874	240	284	673.0	0.2	0.1	673.2	673.1
Base	100	1012	256	299	673.4	0.3	0.2	673.7	673.6
Max. Calc.	500	1339	272	328	674.2	0.6	0.3	674.8	674.5

10 year velocity through existing bridge = 2.8 ft./sec.
10 year velocity through proposed culvert = 2.2 ft./sec.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,000 psi (permanent sheet piling)
fy = 50,000 psi (AASHTO M270, Grade 50W)

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

LOADING HS 20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 1531 OVER WOLF RUN
F.A.S. RTE. 1531 - SEC. 10B-1 & 11B-1
PIATT COUNTY
STATION 164+40.00
STRUCTURE NO. 074-2007

STATE OF ILLINOIS
WAYNE E. ANDERSON
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER
EXPIRES 11-30-2012

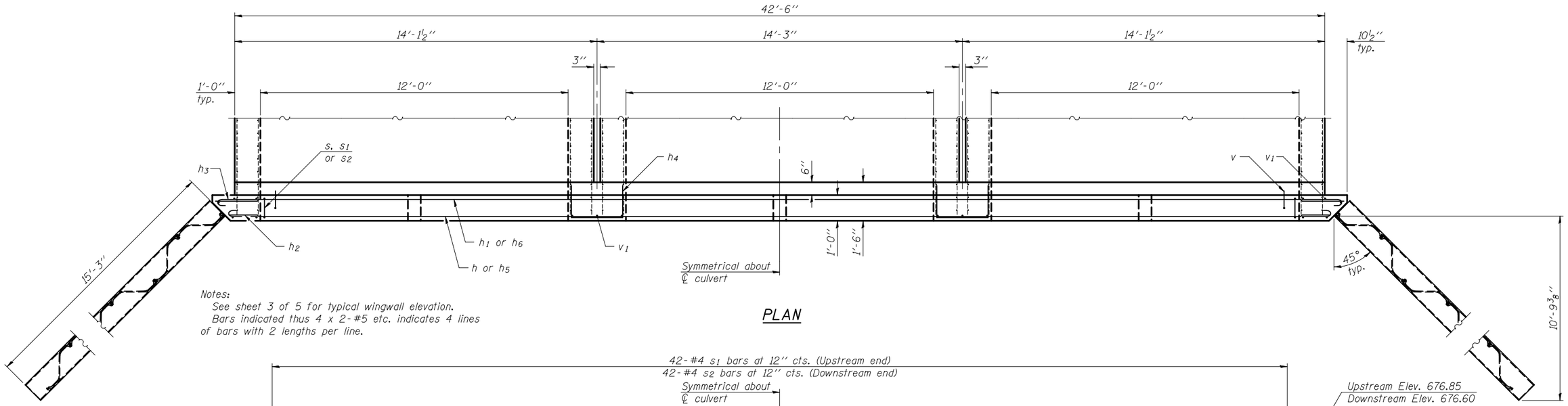
DESIGNED -	Carol Stone		
CHECKED -	Michael B. Mossman		
DRAWN -	MICHAEL B. MOSSMAN		
CHECKED -			

EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES
DATE - 12-8-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

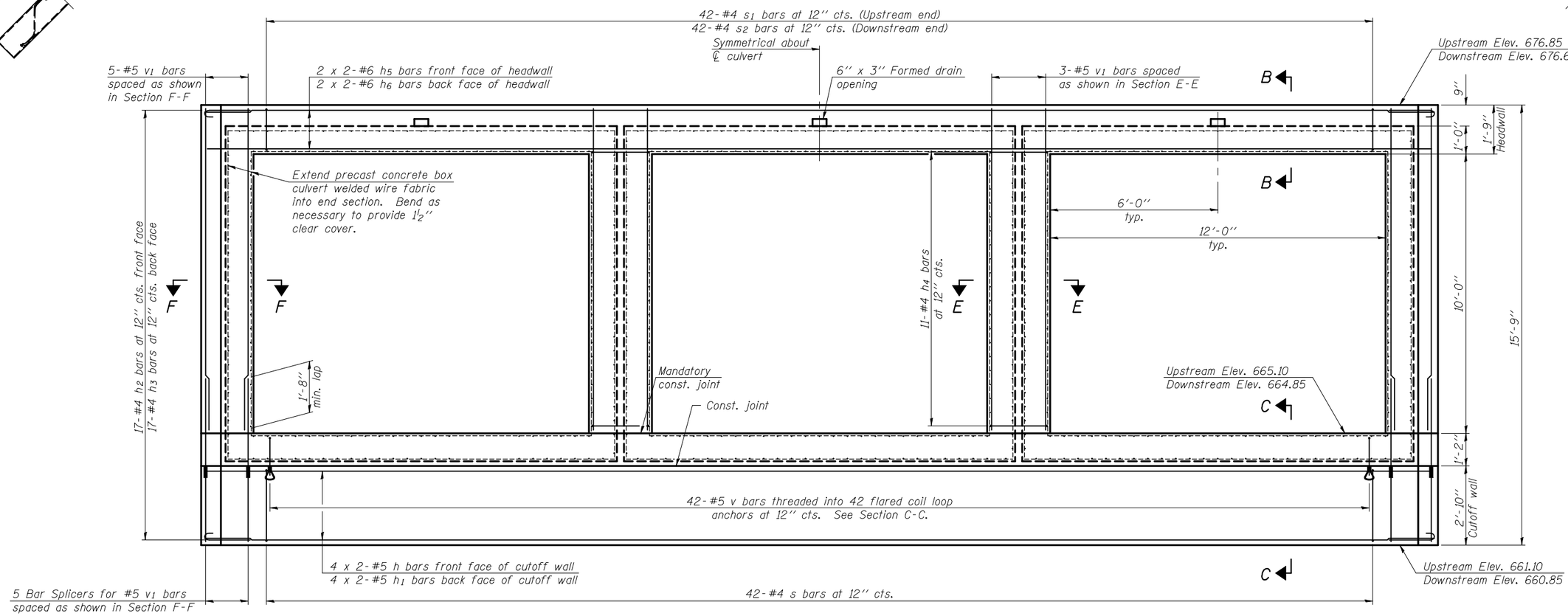
SHEET NO. 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	18
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



Notes:
See sheet 3 of 5 for typical wingwall elevation.
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

PLAN



END ELEVATION

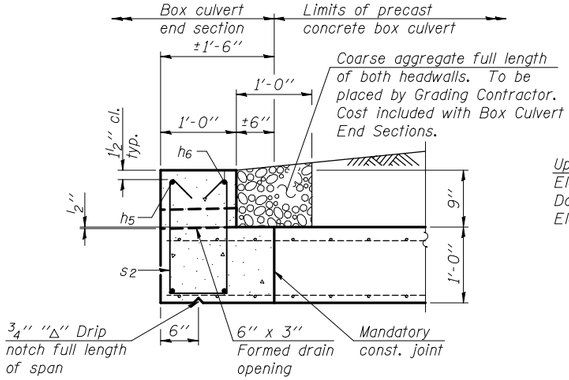
Wingwalls omitted in this view for clarity.
See sheet 3 of 5 for additional wingwall details.

MINIMUM BAR LAP

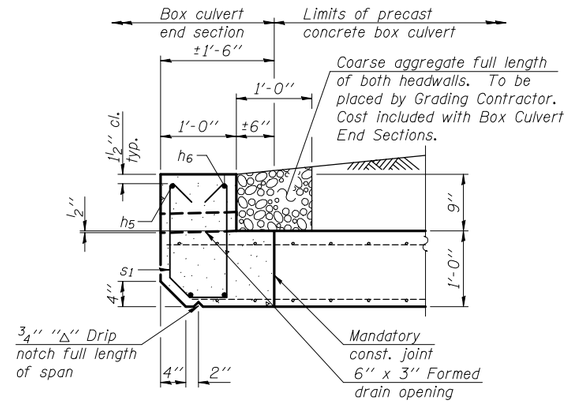
#5 - 2'-2"
#6 - 2'-7"

DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-2007**
CHECKED - MICHAEL D. ROLAPE	PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 2 OF 5 SHEETS
DRAWN - MICHAEL B. MOSSMAN					
CHECKED - D.L.G. / M.D.R.					

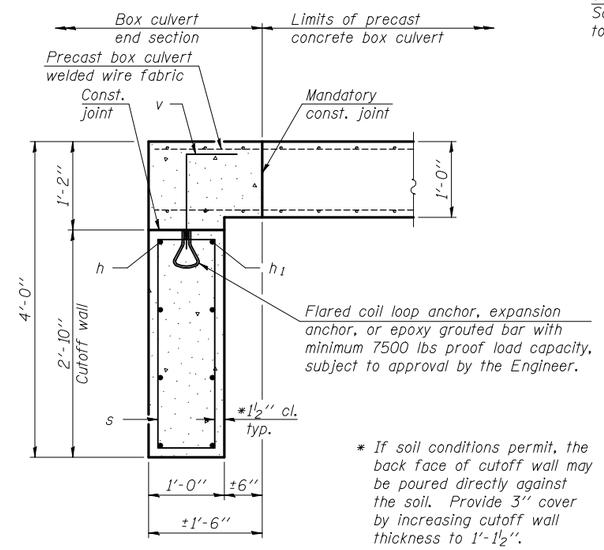
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	19
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



SECTION B-B
(Downstream end)

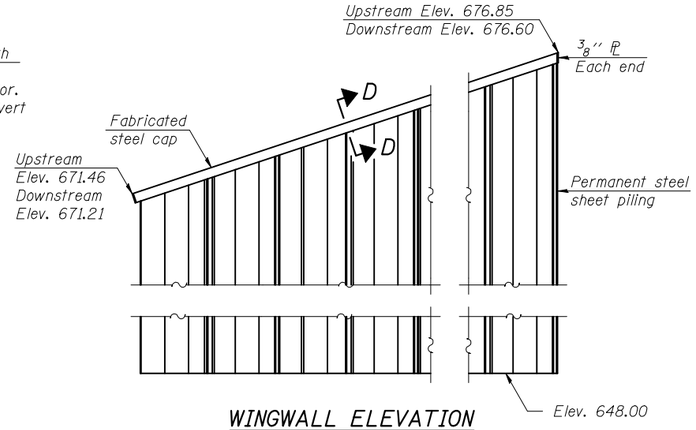


SECTION B-B
(Upstream end)

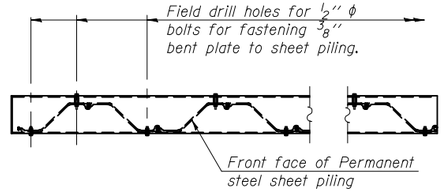


SECTION C-C

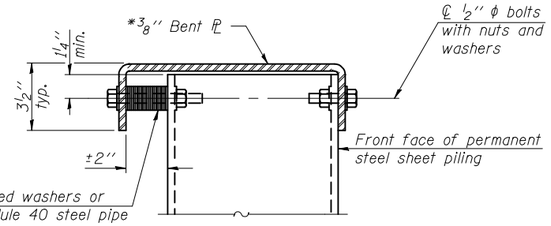
* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1½".



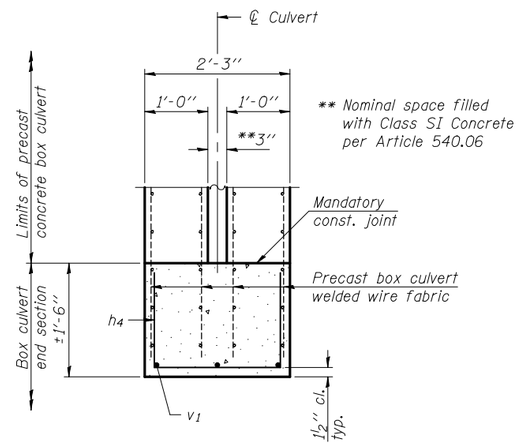
WINGWALL ELEVATION



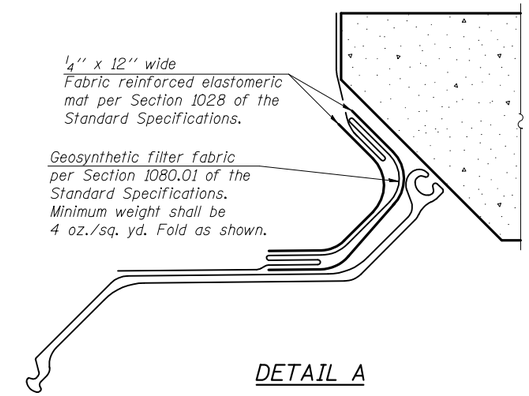
WINGWALL PLAN



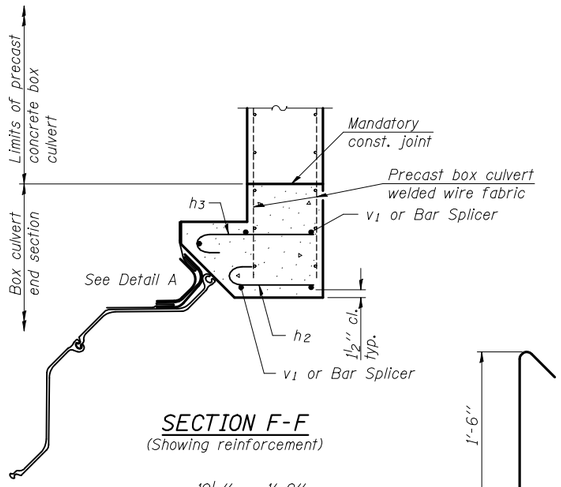
SECTION D-D
*AASHTO M270 Grade 50W



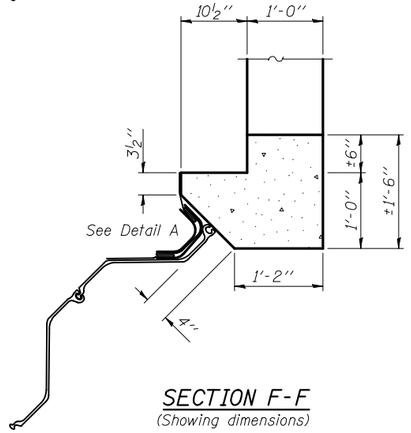
SECTION E-E



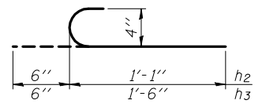
DETAIL A



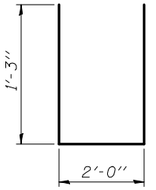
SECTION F-F
(Showing reinforcement)



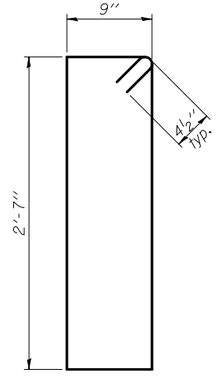
SECTION F-F
(Showing dimensions)



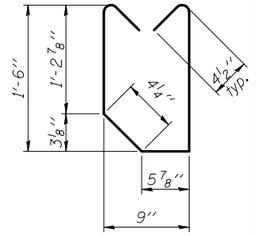
BARS h2 and h3



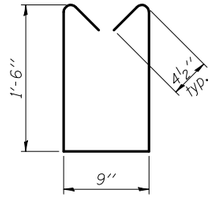
BAR h4



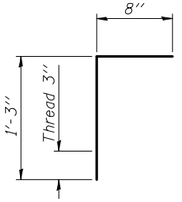
BAR s



BAR s1



BAR s2



BAR v

ONE END SECTION BILL OF MATERIAL
(For information only)

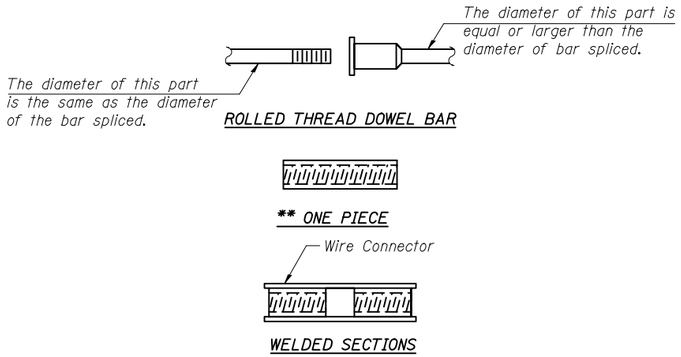
	Bar	No.	Size	Length	Shape
	h	8	#5	22'-6"	
	h1	8	#5	23'-1"	
	h2	34	#4	1'-7"	
	h3	34	#4	2'-0"	
	h4	22	#4	4'-6"	
	h5	4	#6	22'-9"	
	h6	4	#6	23'-4"	
	s	42	#4	7'-5"	
**	s1	42	#4	4'-4"	
**	s2	42	#4	4'-6"	
	v	42	#5	1'-11"	
	v1	16	#5	11'-6"	
	Concrete Box Culverts		Cu. Yd.	15.0	
	Reinforcement Bars		Pound	1,410	
	Bar Splicers		Each	10	
	Permanent Steel Sheet Piling		Sq. Ft.	798	

The cost of the fabricated steel cap, bolts, washers, geosynthetic filter fabric, and elastomeric mat shall be included in the cost of Box Culvert End Sections, Culvert No. 1.

** s_1 bar is to be placed on upstream end only. s_2 bar is to be placed on downstream end only.

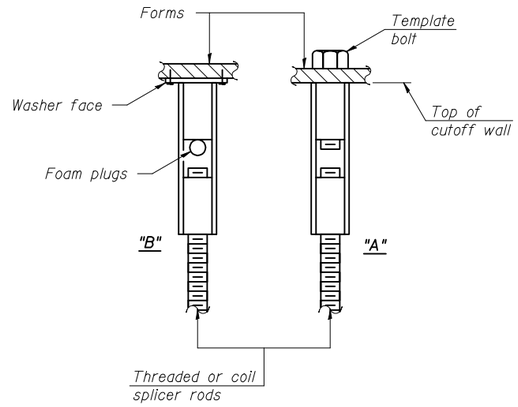
DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski	DATE - DECEMBER 8, 2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-2007
CHECKED - MICHAEL D. ROLAPE		ENGINEER OF BRIDGE DESIGN			SHEET NO. 3 OF 5 SHEETS
DRAWN - MICHAEL B. MOSSMAN	PASSED	Ralph E. Anderson			
CHECKED - D.L.G. / M.D.R.		ENGINEER OF BRIDGES AND STRUCTURES			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	20
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

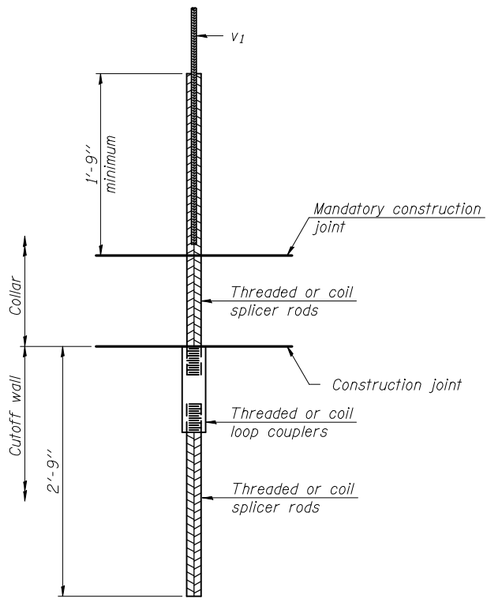
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 20



FOR BOX CULVERT END SECTIONS

DESIGNED - DAVID L. GREIFZU	EXAMINED Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 074-2007	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE					1531	10B-1 & 11B-1	PIATT	88	21
DRAWN - MICHAEL B. MOSSMAN	PASSED Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES						CONTRACT NO. 70458		
CHECKED - D.L.G. / M.D.R.				SHEET NO. 4 OF 5 SHEETS			ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
IDOT – Region 3; Dist. 5

SOIL BORING LOG

Page 1 of 1

Date 8/14/06

ROUTE FAS 1531 (Old Rt. 47) DESCRIPTION Wolf Creek 2 Miles East of Cisco LOGGED BY CNA

SECTION 10B-1 & 11B-1 LOCATION SE, SEC. 13, TWP. 18N, RNG. 4E, 3rd PM GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0017
Station 164+40

BORING NO. 1 NE Boring
Station 164+64
Offset 15.0 ft Lt.
Ground Surface Elev. 677.6 ft

Surface Water Elev. 668.2 ft
Stream Bed Elev. 667.2 ft

Groundwater Elev.:
First Encounter ft
Upon Completion Collapsed ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Black/Brown Mottled Silty Clay Loam (Backfill)			
	2		
	2	2.0	26
-5	3	S	
	1		
	2	1.2	26
	3	S	
	0		
	1		32
-10	2		
667.0			
Brown/Grey Mottled Silty Clay Loam			
	0		
	1	0.8	25
	1	B	
664.5			
Grey Sand Loam to Silty Clay Loam with Trace Sand Mixed)			
	0		
	0		19
662.5 -15	1		
Brown Sandy Clay Loam Till			
	4		
	9	5.4	12
	10	B	
659.0			
Grey Sandy Clay Loam Till	3		
	6	4.8	12
-20	10	S	

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Grey Sandy Clay Loam Till (continued)			
	4		
	6	4.5	11
	11	B	
	3		
-25	7	4.7	12
	10	B	
	2		
	5	3.9	13
647.5 -30	7	B	
End of Boring			
-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT – Region 3; Dist. 5

SOIL BORING LOG

Page 1 of 1

Date 8/14/06

ROUTE FAS 1531 (Old Rt. 47) DESCRIPTION Wolf Creek 2 Miles East of Cisco LOGGED BY RRW

SECTION 10B-1 & 11B-1 LOCATION SE, SEC. 13, TWP. 18N, RNG. 4E GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0017
Station 164+40

BORING NO. 2 SW Boring
Station 164+17
Offset 17.0 ft Rt.
Ground Surface Elev. 677.5 ft

Surface Water Elev. 668.2 ft
Stream Bed Elev. 667.2 ft

Groundwater Elev.:
First Encounter 663.5 ft ▼
Upon Completion 666.0 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Mottled Silty Clay Loam (Backfill)			
	1		
	2	0.8	19
-5	2	B	
669.5			
Grey Mottled Sandy Clay Loam	1		
	1		15
667.5 -10	2		
Black Silty Clay Loam			
▽	0		
	0		32
	1		
664.5			
Dark Grey Mottled Sandy Loam to Silty Clay Loam	0		
	1	0.6	21
-15	1	B	
661.5			
Grey Sandy Clay Loam Till	3		
	7	7.4	11
	8	B	
	3		
	8	7.4	11
-20	11	B	

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Grey Sandy Clay Loam Till (continued)			
▼	3		
	7	6.4	11
652.5 -25	12	B	
End of Boring			
-30			
-35			
-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

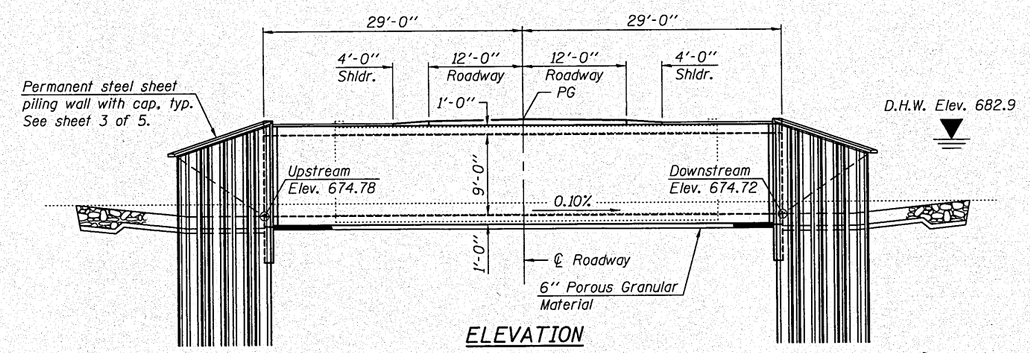
BBS, form 137 (Rev. 8-99)

DESIGNED - DAVID L. GREIFZU	EXAMINED Thomas J. Domagalski ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 074-2007**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE					1531	10B-1 & 11B-1	PIATT	88	22
DRAWN - MICHAEL B. MOSSMAN	PASSED Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 5 OF 5 SHEETS			CONTRACT NO. 70458		
CHECKED - D.L.G. / M.D.R.							ILLINOIS FED. AID PROJECT		

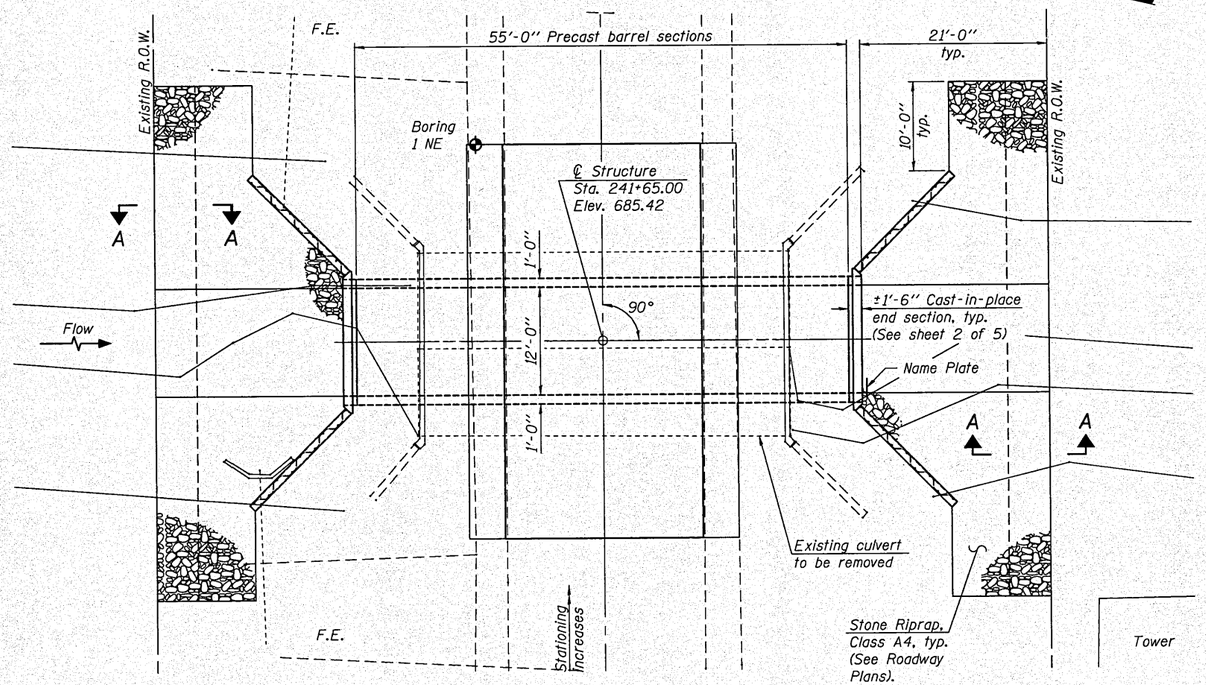
Benchmark: Chiseled square on northwest headwall of Structure No. 074-8606; 20.4' Lt. Sta. 251+53.7. Elev. 685.34.

Existing Structure: S.N. 074-0049 was constructed in 1939 at Sta. 241+65 as a double barrel 10' x 9' reinforced concrete box culvert as F.A. 135, Section 10B in Piatt County. The existing structure is to be completely removed and replaced. The road is to be temporarily closed during construction.

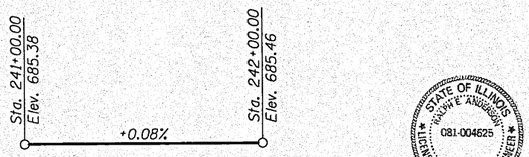
INDEX OF SHEETS



ELEVATION



PLAN



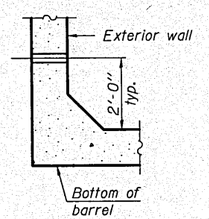
PROFILE GRADE

STATE OF ILLINOIS WAYNE E. ANDERSON 081-004625 LICENSED STRUCTURAL ENGINEER SPRINGFIELD

EXPIRES 11-30-2012

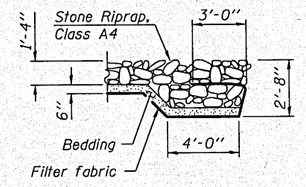
CULVERT CONSTRUCTION SEQUENCE

1. Remove existing structure
2. Build cutoff wall
3. Prepare bed
4. Place precast box culvert sections.
5. Form and place concrete in end section
6. Drive sheeting
7. Backfill culvert and wings
8. Install sheet pile cap



DRAIN DETAIL

Provide 3" ϕ drain holes in exterior walls at ±8' cts. See Article 503.11 of the Standard Specifications.



SECTION A-A

GENERAL NOTES

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

The reinforcement shall be according to Table 1 for a 12x12 box.

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

The design fill height for this structure is less than 2 feet. The precast concrete box culvert sections shall conform to the requirements of AASHTO M273.

The minimum effective section modulus of the permanent sheet pile wall shall be 25 in.³/ft.

The sheet pile cap shall be AASHTO M270 Grade 50W.

Fasteners shall be AASHTO M164 Type 3. Bolts $\frac{1}{2}$" ϕ, holes $\frac{5}{8}$" ϕ.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culvert 12' x 9'	Foot	55.0
Stone Riprap, Class A4	Sq. yd.	196
Filter Fabric	Sq. yd.	196
Permanent Benchmark	Each	1
Porous Granular Embankment	Cu. yd.	427

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	670.78	670.72

WATERWAY INFORMATION

Drainage Area = 1.07 mi.²

Proposed Low Grade Elev. 685.41 @ Sta. 241+54.55
Existing Low Grade Elev. 685.41 @ Sta. 241+54.55

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	145	112	71	681.9	0.0	0.1	681.9	682.0
Design	50	222	132	83	682.9	0.1	0.4	683.0	683.3
Base	100	255	139	87	683.3	0.1	0.5	683.4	683.8
Max. Calc.	500	332	151	94	684.0	0.3	1.0	684.3	685.0

10 year velocity through existing bridge = 2.48 ft./sec.
10 year velocity through proposed culvert = 4.56 ft./sec.

STATION 241+65.00
BUILT 201 BY
STATE OF ILLINOIS
F.A.S. RTE. 1531 SEC. 10B-1 & 11B-1
LOADING HS 20-44
STRUCTURE NO. 074-8606

NAME PLATE

See Std. 515001

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,000 psi (permanent sheet piling)
fy = 50,000 psi (AASHTO M270, Grade 50W)

PRECAST UNITS

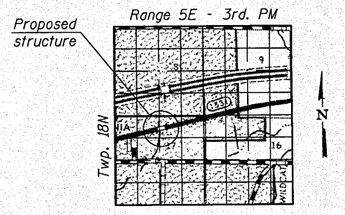
f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

LOADING HS 20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 1531 OVER STREAM
F.A.S. RTE. 1531 - SEC. 10B-1 & 11B-1
PIATT COUNTY
STATION 241+65.00
STRUCTURE NO. 074-8606

DESIGNED	-		
CHECKED	-		
DRAWN	-	MICHAEL B. MOSSMAN	
CHECKED	-		

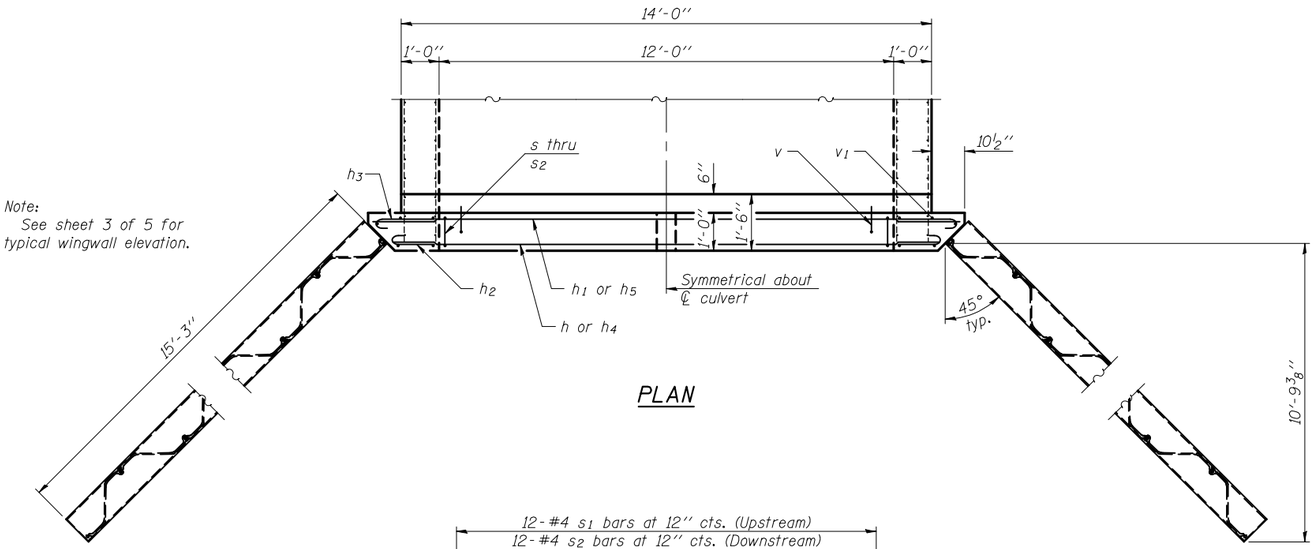
EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES
DATE - 12-8-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

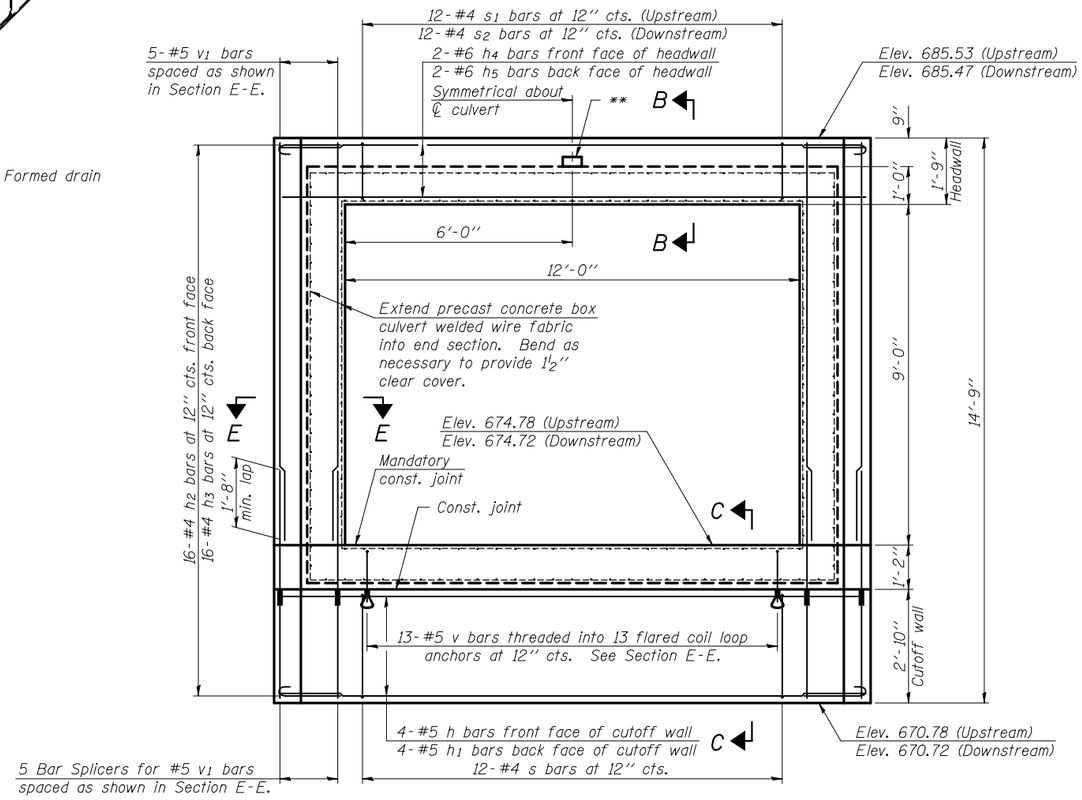
SHEET NO. 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	23
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

Note:
See sheet 3 of 5 for typical wingwall elevation.



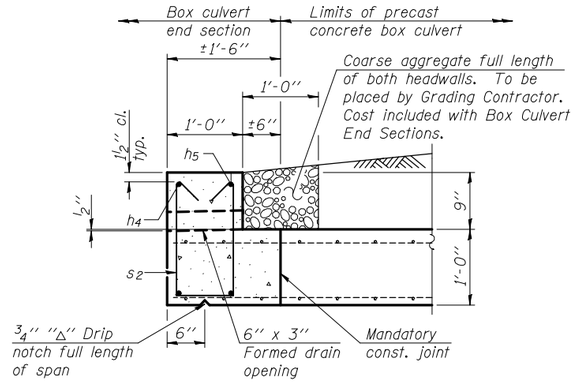
PLAN



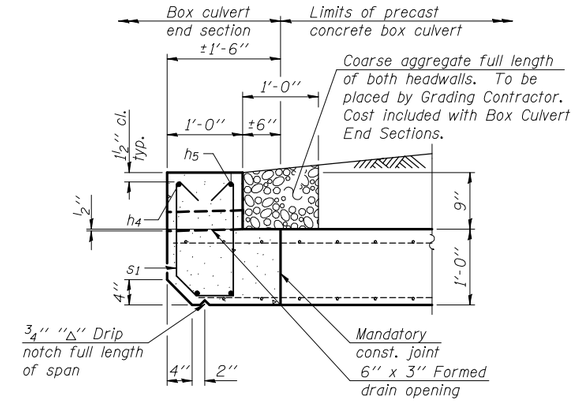
** 6" x 3" Formed drain opening

END ELEVATION

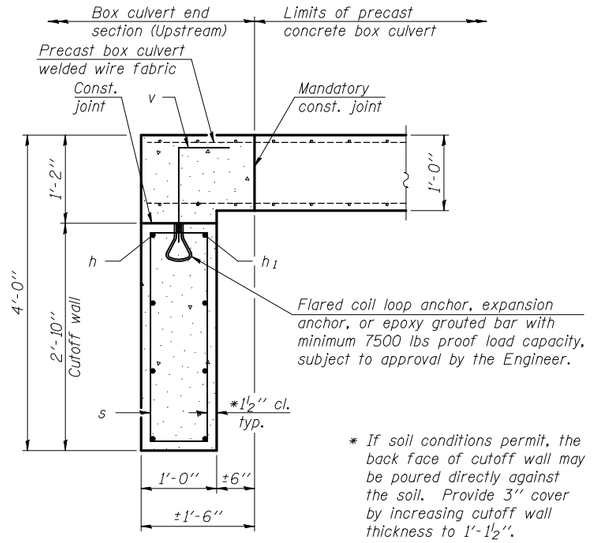
Wingwalls omitted in this view for clarity.
See sheet 3 of 5 for additional details.



SECTION B-B
(Downstream end)



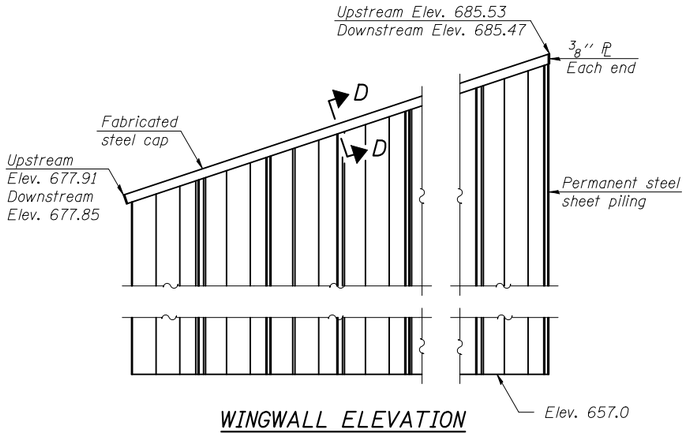
SECTION B-B
(Upstream end)



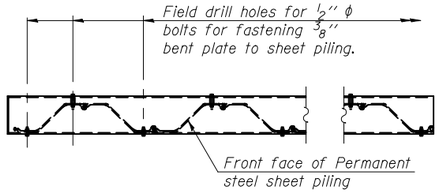
* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1½".

SECTION C-C

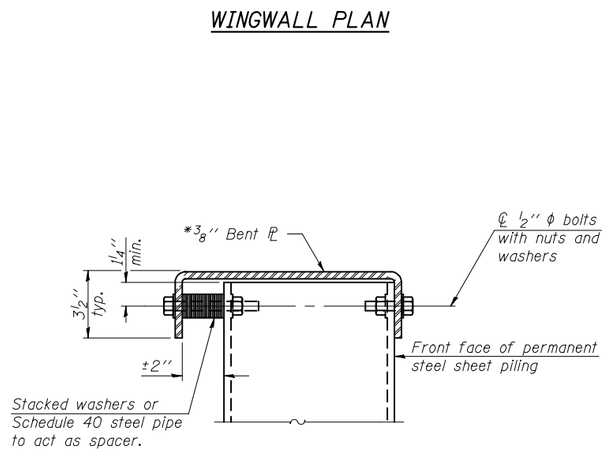
DESIGNED - DAVID L. GREIFZU	EXAMINED	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-8606**	F.A.S. RTE. 1531 | SECTION 10B-1 & 11B-1 | COUNTY PIATT | TOTAL SHEETS 88 | SHEET NO. 24
CHECKED - MICHAEL D. ROLAPE					CONTRACT NO. 70458
DRAWN - MICHAEL B. MOSSMAN	PASSED				ILLINOIS FED. AID PROJECT
CHECKED - D.L.G. / M.D.R.	Thomas J. Domagalski ENGINEER OF BRIDGE DESIGN; Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 2 OF 5 SHEETS	



WINGWALL ELEVATION

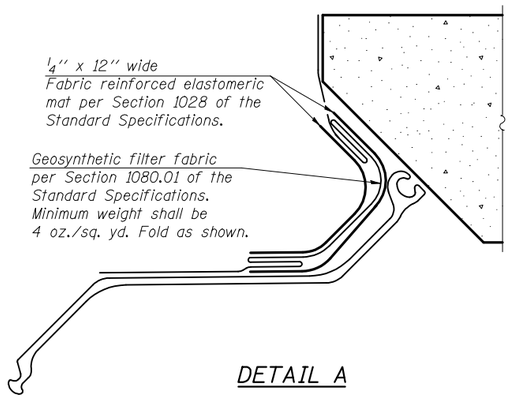


WINGWALL PLAN

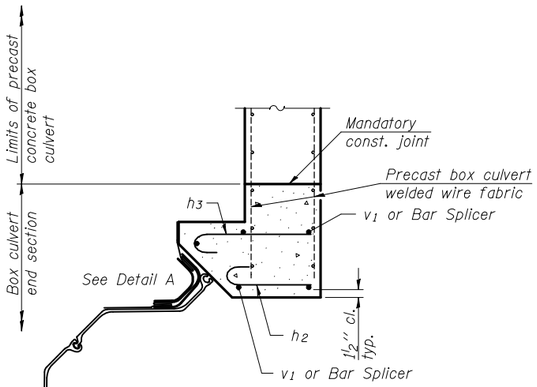


SECTION D-D

*AASHTO M270 Grade 50W

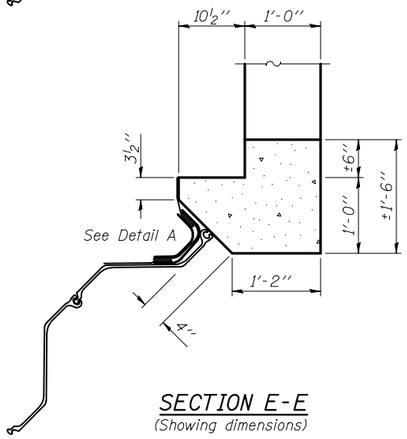


DETAIL A



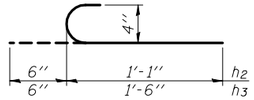
SECTION E-E

(Showing reinforcement)

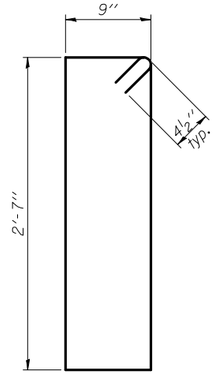


SECTION E-E

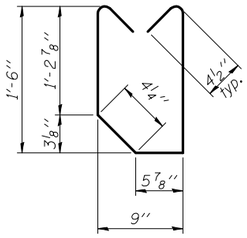
(Showing dimensions)



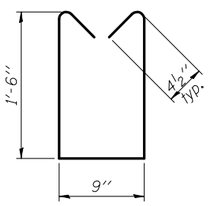
BARS h2 and h3



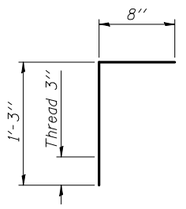
BAR s



BAR s1



BAR s2



BAR v

ONE END SECTION
BILL OF MATERIAL

(For information only)

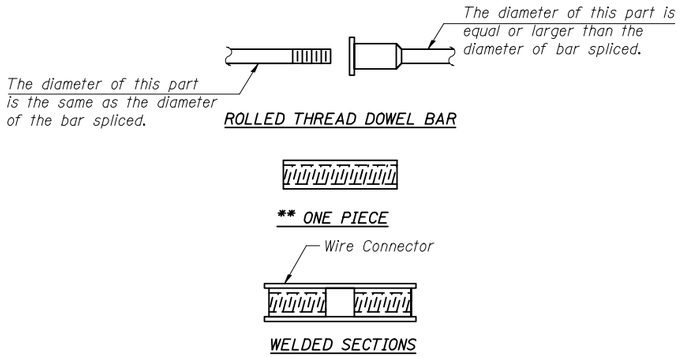
	Bar	No.	Size	Length	Shape
	h	4	#5	14'-2"	
	h_1	4	#5	15'-6"	
	h_2	32	#4	1'-7"	
	h_3	32	#4	2'-0"	
	h_4	2	#6	14'-2"	
	h_5	2	#6	15'-6"	
	s	12	#4	7'-5"	
**	s_1	12	#4	4'-4"	
**	s_2	12	#4	4'-6"	
	v	13	#5	1'-11"	
	v_1	10	#5	10'-6"	
	Concrete Box Culverts		Cu. Yd.	5.2	
	Reinforcement Bars		Pound	520	
	Bar Splicers		Each	10	
	Permanent Steel Sheet Piling		Sq. Ft.	753	

The cost of the fabricated steel cap, bolts, washers, geosynthetic filter fabric, and elastomeric mat shall be included in the cost of Box Culvert End Sections, Culvert No. 2.

** s_1 bar is to be placed on upstream end only. s_2 bar is to be placed on downstream end only.

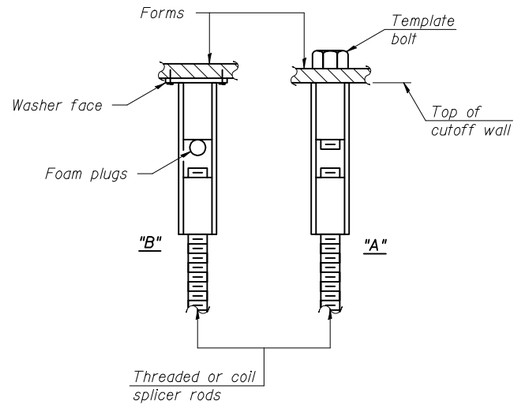
DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-8606
CHECKED - MICHAEL D. ROLAPE	PASSED	Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 3 OF 5 SHEETS
DRAWN - MICHAEL B. MOSSMAN					
CHECKED - D.L.G. / M.D.R.					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	25
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

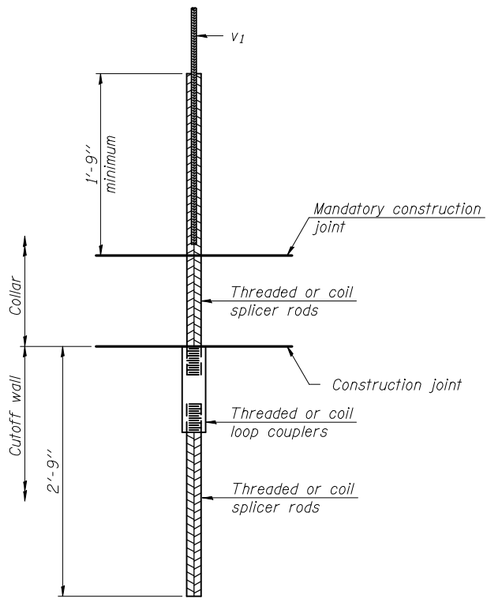
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 20



FOR BOX CULVERT END SECTIONS

DESIGNED - DAVID L. GREIFZU	EXAMINED Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 074-8606**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE					1531	10B-1 & 11B-1	PIATT	88	26
DRAWN - MICHAEL B. MOSSMAN	PASSED Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 4 OF 5 SHEETS			CONTRACT NO. 70458		
CHECKED - D.L.G. / M.D.R.							ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
IDOT – Region 3, Dist. 5

SOIL BORING LOG

Date 10/6/06

ROUTE FAS 1531 (Cisco Rd.) DESCRIPTION Box Culvert 3.5 Miles East of Cisco LOGGED BY CNA

SECTION 10B-1 & 11B-1 LOCATION , SEC. 17, TWP. 18N, RNG. SE, 3rd PM GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0049
Station 241+65

BORING NO. 1 NE Boring
Station 241+87
Offset 14.0 ft Lt.
Ground Surface Elev. 685.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Black to Brown Silty Clay Loam (Backfill)			
	0		
	1	1.0	25
-5	2		
679.1			
Brown/Gray Mottled Silty Clay	1		
	1	0.5	20
	2		
	0		
	0		14
-10	1		
674.6			
Brown Dirty Coarse Sand to Silt	2		
	2		
(Drove Sampler on Rock – No Sample)	50-3"		
672.1			
Brown/Gray Sandy Clay Loam Till	2		
	2	1.8	12
-15	4	B	
669.1			
Gray Sandy Clay Loam Till	4		
	8	3.9	9
	17	S	
	4		
	12	5.4	10
-20	13	B	
Gray Sandy Clay Loam Till (continued)			
	4		
	8	6.8	9
	12	B	
660.1 -25			
End of Boring			
-30			
-35			
-40			

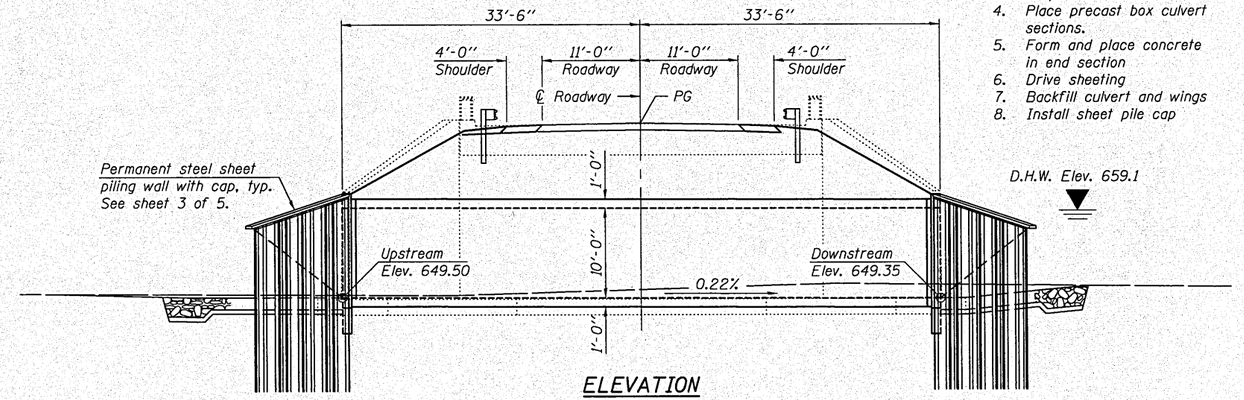
An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

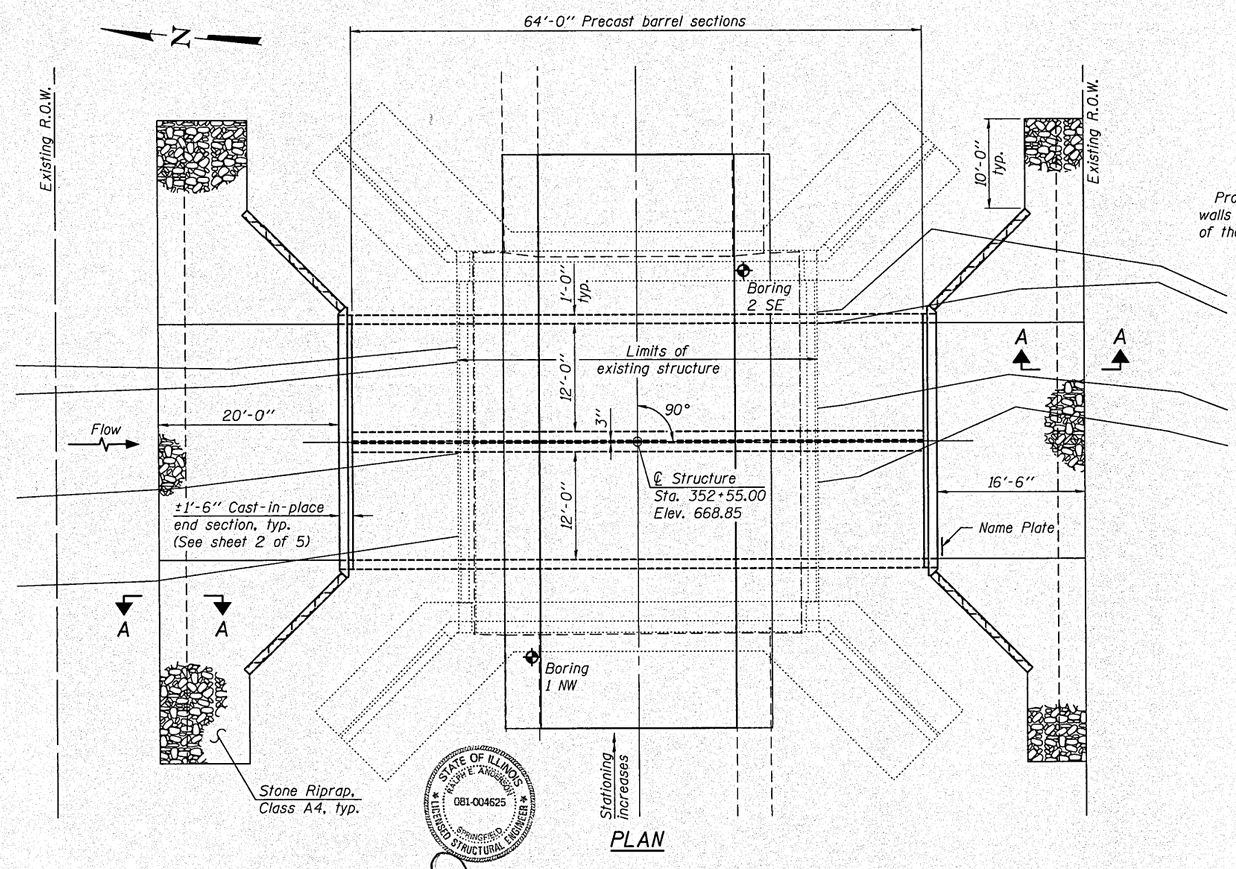
DESIGNED - DAVID L. GREIFZU	EXAMINED Thomas J. Domagalski	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 074-8606**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE	ENGINEER OF BRIDGE DESIGN				1531	10B-1 & 11B-1	PIATT	88	27
DRAWN - MICHAEL B. MOSSMAN	PASSED Ralph E. Anderson			SHEET NO. 5 OF 5 SHEETS			CONTRACT NO. 70458		
CHECKED - D.L.G. / M.D.R.	ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT		

Benchmark: Chiseled square on southwest wingwall of Structure No. 074-0018. 21.14' Rt. Sta. 352+28.3. Elev. 669.06

Existing Structure: S.N. 074-0018 was constructed in 1940 at Sta. 352+50 as a single span reinforced concrete girder bridge as F.A. 135, Section 11B in Piatt County. The existing structure is to be completely removed and replaced. The road is to be temporarily closed during construction.



ELEVATION



PLAN

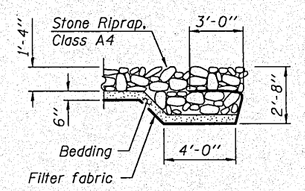
STATE OF ILLINOIS RALPH E. ANDERSON 081-004625 SPRINGFIELD LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2012

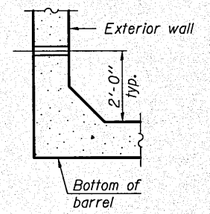
CULVERT CONSTRUCTION SEQUENCE

1. Remove existing structure
2. Build cutoff wall
3. Prepare bed
4. Place precast box culvert sections.
5. Form and place concrete in end section
6. Drive sheeting
7. Backfill culvert and wings
8. Install sheet pile cap

INDEX OF SHEETS

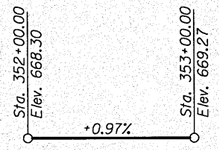


SECTION A-A



DRAIN DETAIL

Provide 3" ϕ drain holes in exterior walls at ±8' cts. See Article 503.11 of the Standard Specifications.



PROFILE GRADE

GENERAL NOTES

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

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

The design fill height for this structure is 10 feet. The precast concrete box culvert sections shall conform to the requirements of AASHTO M259.

The minimum effective section modulus of the permanent sheet pile wall shall be 25 $in.^3/ft.$

The sheet pile cap shall be AASHTO M270 Grade 50W.

Fasteners shall be AASHTO M164 Type 3. Bolts ½" ϕ, holes $^5/_8$" ϕ.

See sheet 2 of 5 for culvert construction sequence.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 3	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 3	Each	2
Precast Concrete Box Culvert 12' x 10'	Foot	128
Stone Riprap, Class A4	Sq. yd.	218.9
Filter Fabric	Sq. yd.	218.9
Permanent Benchmark	Each	1
Porous Granular Embankment	Cu. yd.	1479.6

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	645.50	645.35

WATERWAY INFORMATION

Drainage Area = 6.27 $mi.^2$

Proposed Low Grade Elev. 667.57 @ Sta. 350+00
Existing Low Grade Elev. 667.57 @ Sta. 350+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	786	222	202	657.9	0.1	0	658.0	657.9
Design	50	1262	270	230	659.1	0.3	0.3	659.4	659.4
Base	100	1473	290	240	659.6	0.4	0.4	660.0	660.0
Max. Calc.	500	1984	330	240	660.6	0.6	1.0	661.2	661.6

10 year velocity through existing bridge = 4.80 ft./sec.
10 year velocity through proposed culvert = 3.93 ft./sec.

STATION 352+55.00
BUILT 201 BY
STATE OF ILLINOIS
F.A.S. RTE. 1531 SEC. 10B-1 & 11B-1
LOADING HS 20-44
STRUCTURE NO. 074-2006

NAME PLATE

See Std. 515001

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,000 psi (permanent sheet piling)
fy = 50,000 psi (AASHTO M270, Grade 50W)

PRECAST UNITS

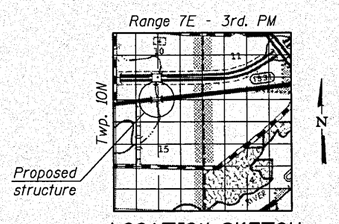
f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

LOADING HS 20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 1531 OVER WILDCAT CREEK
F.A.S. RTE. 1531 - SEC. 10B-1 & 11B-1
PIATT COUNTY
STATION 352+55.00
STRUCTURE NO. 074-2006

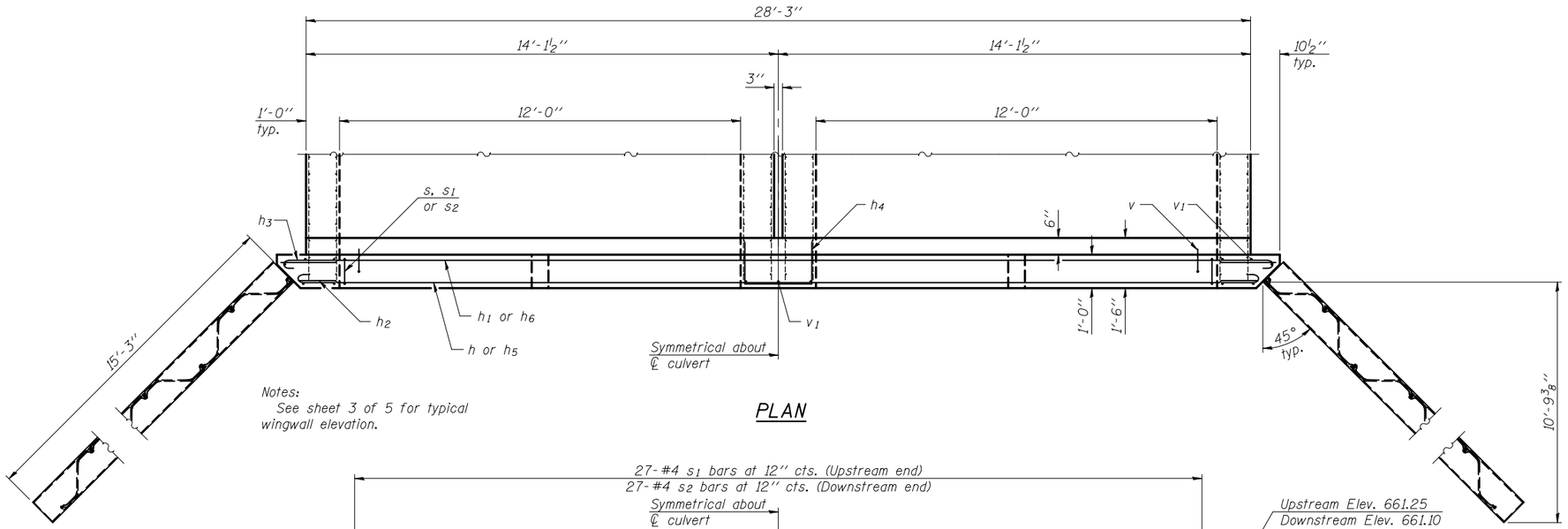
DESIGNED	-		
CHECKED	-		
DRAWN	-	MICHAEL B. MOSSMAN	
CHECKED	-		

EXAMINED _____ ENGINEER OF BRIDGE DESIGN
PASSED _____ ENGINEER OF BRIDGES AND STRUCTURES
DATE - 12-8-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

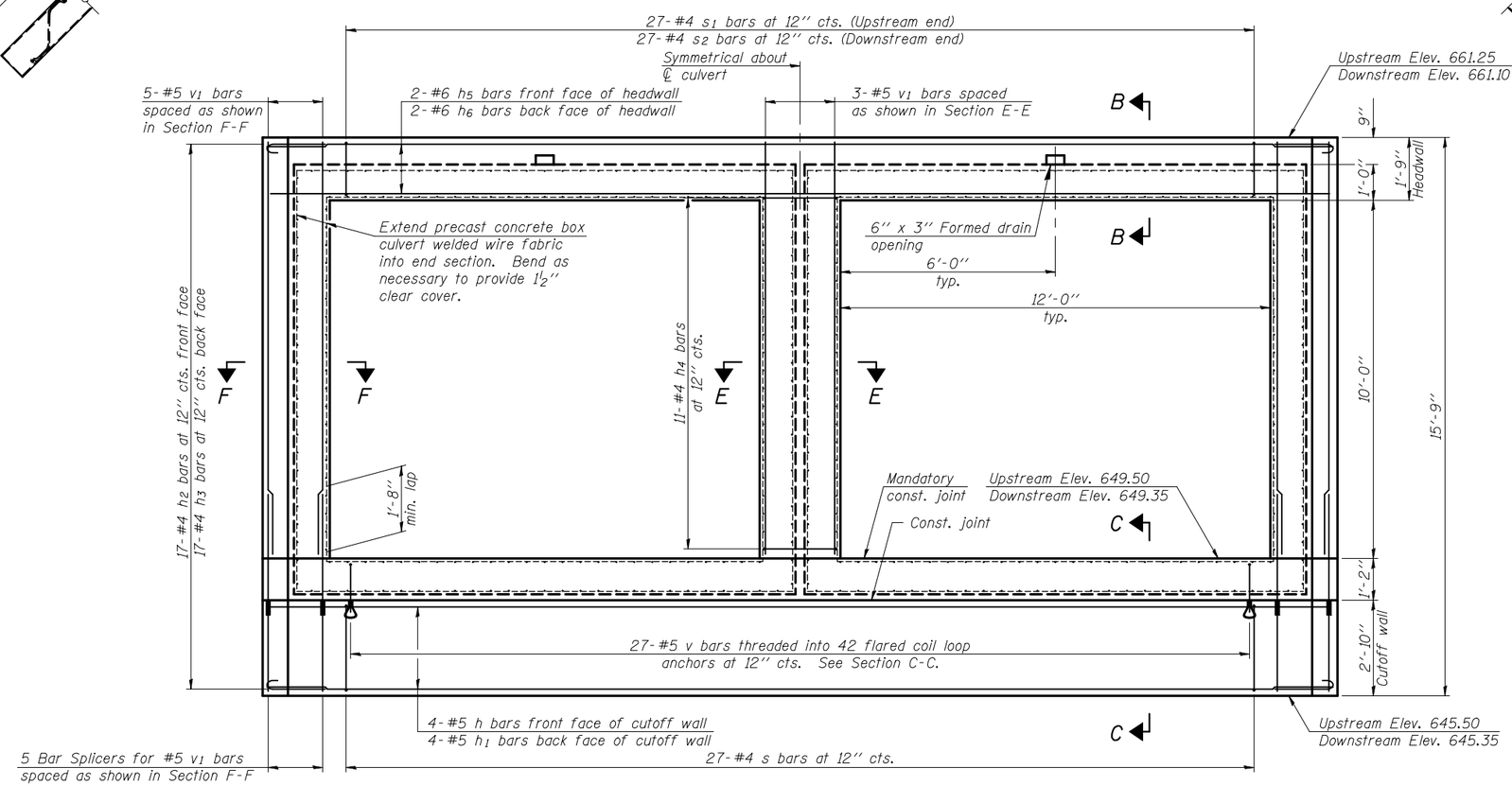
SHEET NO. 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	28
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



Notes:
See sheet 3 of 5 for typical wingwall elevation.

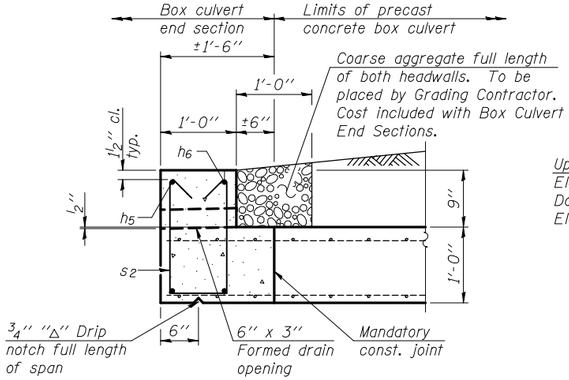
PLAN



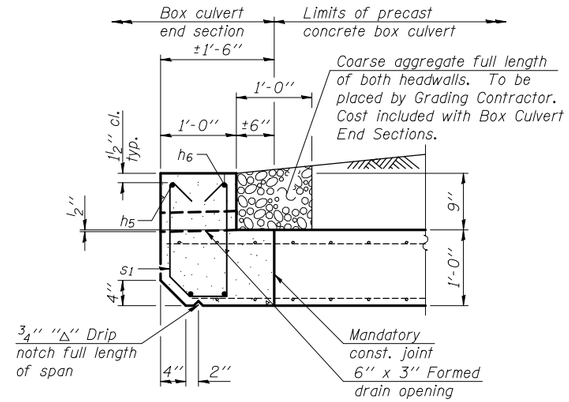
END ELEVATION

Wingwalls omitted in this view for clarity.
See sheet 3 of 5 for additional wingwall details.

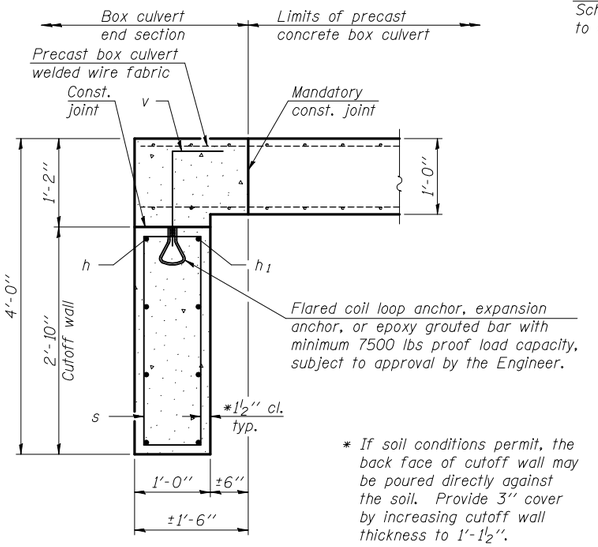
DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-2006**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE						828	(108,109,110)RS-3	CUMBERLAND	88	29
DRAWN - MICHAEL B. MOSSMAN	PASSED	Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 2 OF 5 SHEETS			CONTRACT NO. 74252		
CHECKED - D.L.G. / M.D.R.								ILLINOIS FED. AID PROJECT		



SECTION B-B
(Downstream end)

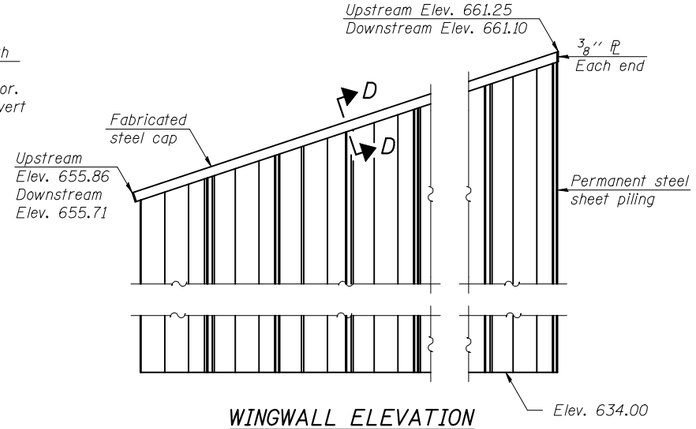


SECTION B-B
(Upstream end)

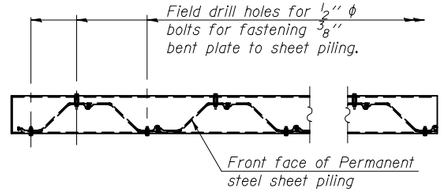


SECTION C-C

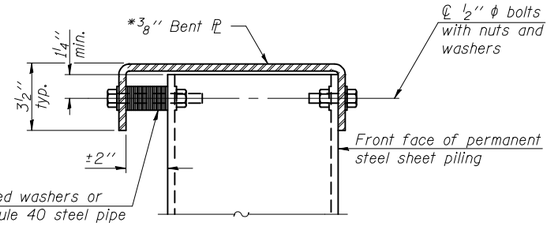
* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1½".



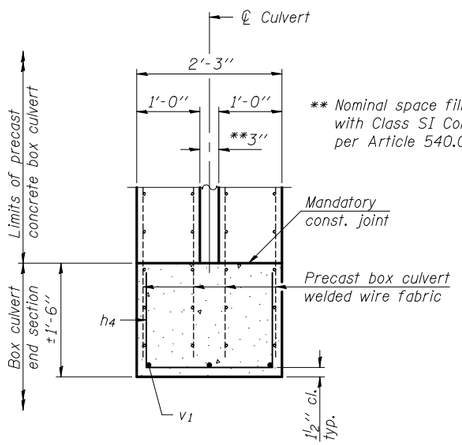
WINGWALL ELEVATION



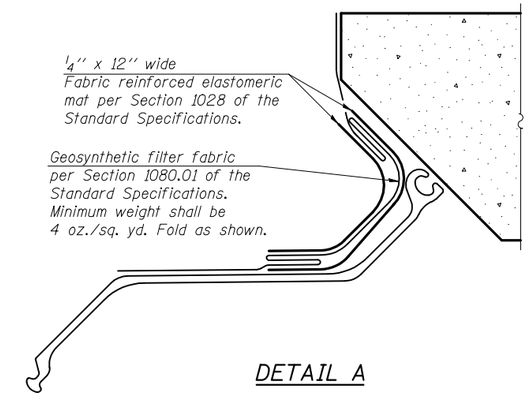
WINGWALL PLAN



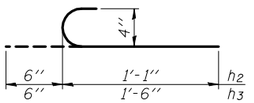
SECTION D-D
*AASHTO M270 Grade 50W



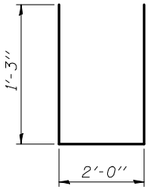
SECTION E-E



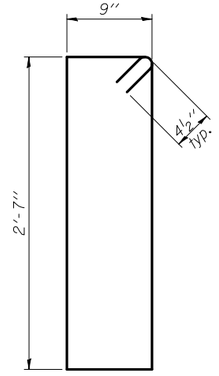
DETAIL A



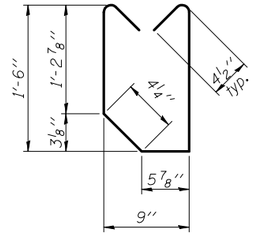
BARS h2 and h3



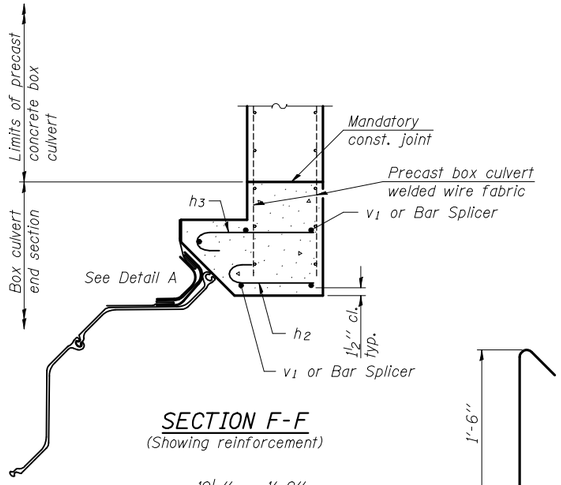
BAR h4



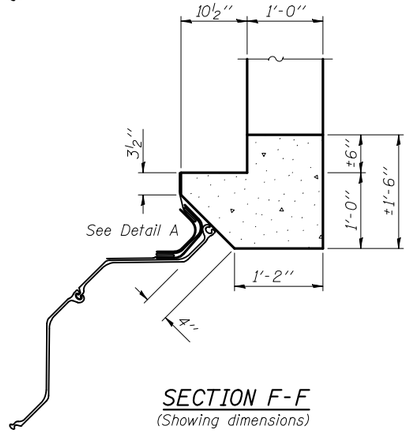
BAR s



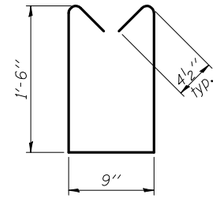
BAR s1



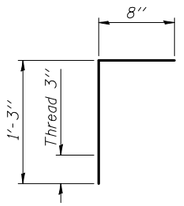
SECTION F-F
(Showing reinforcement)



SECTION F-F
(Showing dimensions)



BAR s2



BAR v

ONE END SECTION BILL OF MATERIAL

(For information only)

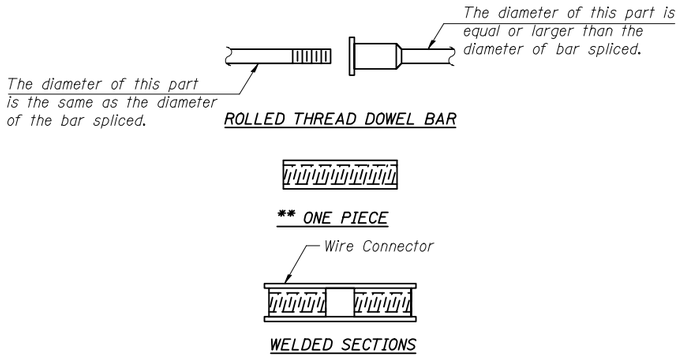
	Bar	No.	Size	Length	Shape
	h	4	#5	28'-6"	
	h1	4	#5	29'-8"	
	h2	34	#4	1'-7"	
	h3	34	#4	2'-0"	
	h4	11	#4	4'-6"	
	h5	2	#6	28'-6"	
	h6	2	#6	29'-8"	
	s	27	#4	7'-5"	
**	s1	27	#4	4'-4"	
**	s2	27	#4	4'-6"	
	v	27	#5	1'-11"	
	v1	13	#5	11'-6"	
	Concrete Box Culverts		Cu. Yd.	10.1	
	Reinforcement Bars		Pound	960	
	Bar Splicers		Each	10	
	Permanent Steel Sheet Piling		Sq. Ft.	749	

The cost of the fabricated steel cap, bolts, washers, geosynthetic filter fabric, and elastomeric mat shall be included in the cost of Box Culvert End Sections, Culvert No. 3.

** s_1 bar is to be placed on upstream end only. s_2 bar is to be placed on downstream end only.

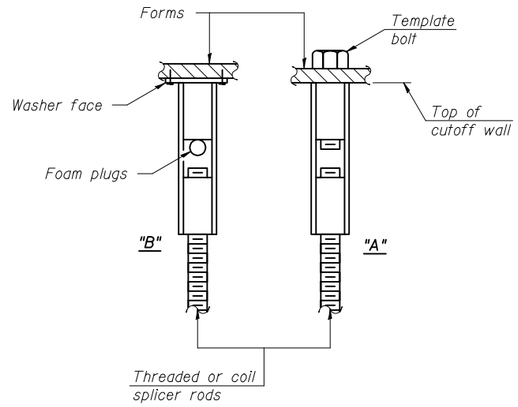
DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT END SECTION DETAILS STRUCTURE NO. 074-2006
CHECKED - MICHAEL D. ROLAPE					SHEET NO. 3 OF 5 SHEETS
DRAWN - MICHAEL B. MOSSMAN	PASSED	Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES			
CHECKED - D.L.G. / M.D.R.					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	30
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

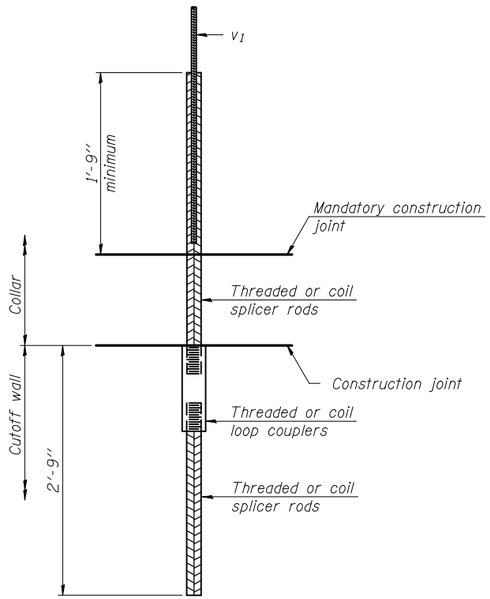
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 20



FOR BOX CULVERT END SECTIONS

DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 074-2006**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE						1531	10B-1 & 11B-1	PIATT	88	31
DRAWN - MICHAEL B. MOSSMAN	PASSED	Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 4 OF 5 SHEETS			CONTRACT NO. 70458		
CHECKED - D.L.G. / M.D.R.								ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation

Division of Highways
IDOT – Region 3 / Dist. 5

SOIL BORING LOG

Date 11/06

ROUTE FAS 1531 (Cisco Rd.) DESCRIPTION FAS 1531 Over Wildcat Creek 5 Miles East of Cisco LOGGED BY CNA

SECTION 11B-1 LOCATION SW, SEC. 10, TWP. 18N, RNG. 5E GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0018 (Exist.)
Station 352+50 (Exist.)

BORING NO. 1 NW Boring
Station 352+26
Offset 12.0 ft Lt.
Ground Surface Elev. 668.6 ft

Surface Water Elev. 652.4 ft
Stream Bed Elev. 651.8 ft

Groundwater Elev.:
First Encounter 640.6 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Mottled Silty Clay Loam to Clay Loam (Backfill)			
	2		
	3	1.9	20
-5	3	B	
660.6			
Gray Mottled Silty Clay to Clay Loam (Backfill)			
	2		
	2	1.9	23
-10	3	B	
	1		
	2		25
655.6	3		
Gray Mottled Clay Loam to Sandy Clay Loam			
	1		
	2		20
-15	3		
	1		
	2	0.8	24
650.6	2	B	
Gray Mottled Silty Clay Loam (Trace of Free Water)			
	0		
	1	0.5	25
648.6 -20	1	B	

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Slightly Organic Silt to Silty Clay (Trace of Fine Peat)			
	2		
	2	0.5	
	3	E	
(No Sample Obtained – Drove Sampler on Rock)			
	1		
	2	1.2	43
-25	4	B	
642.6			
Dark Gray to Gray Clay to Clay Loam (Trace of Organics)			
	3		
	5	3.4	24
	7	B	
640.6 ▼			
Gray Blue Clay to Clay Loam			
	3		
	5	3.7	19
-30	6	B	
	2		
	5	3.3	21
	5	B	
	3		
	4	3.5	16
-35	6	B	
631.6			
Gray Clay Loam Till			
	3		
	7	3.9	13
-40	11	B	

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
IDOT – Region 3 / Dist. 5

SOIL BORING LOG

Date 11/06

ROUTE FAS 1531 (Cisco Rd.) DESCRIPTION FAS 1531 Over Wildcat Creek 5 Miles East of Cisco LOGGED BY CNA

SECTION 11B-1 LOCATION SW, SEC. 10, TWP. 18N, RNG. 5E GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0018 (Exist.)
Station 352+50 (Exist.)

BORING NO. 1 NW Boring
Station 352+26
Offset 12.0 ft Lt.
Ground Surface Elev. 668.6 ft

Surface Water Elev. 652.4 ft
Stream Bed Elev. 651.8 ft

Groundwater Elev.:
First Encounter 640.6 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Clay Loam Till (continued)			
	5		
	8	4.3	12
623.6 -45	10	B	
End of Boring			
-50			
-55			
-60			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
IDOT – Region 3 / Dist. 5

SOIL BORING LOG

Date 11/06

ROUTE FAS 1531 (Cisco Rd.) DESCRIPTION FAS 1531 Over Wildcat Creek 5 Miles East of Cisco LOGGED BY CNA

SECTION 11B-1 LOCATION SW, SEC. 10, TWP. 18N, RNG. 5E GPS:

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0018 (Exist.)
Station 352+50 (Exist.)

BORING NO. 2 SE Boring
Station 352+89
Offset 12.0 ft Rt.
Ground Surface Elev. 669.0 ft

Surface Water Elev. 652.4 ft
Stream Bed Elev. 651.8 ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Sandy Clay Loam (Backfill)			
	2		
	3	1.0	18
-5	3	B	
662.0			
Brown/Green Mottled Silty Clay Loam (Backfill)			
	2		
	2		26
659.0 -10	5		
Gray Mottled Silty Clay (Backfill)			
	2		
	2	2.0	25
	4	B	
	2		
	2	1.0	25
-15	4	B	
	0		
652.0	1	0.6	29
Dark Gray Mottled Silty Clay to Clay	2	B	
	4		
	6		
649.0 -20	2		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
(No Sample – Drove sampler on Rock) (continued)			
	2		
	4	4.1	11
	5	B	
	3		
	5	5.0	11
-25	7	S	
642.0			
Dark Gray Clay to Clay Loam			
	3		
	5	4.9	17
-30	8	B	
636.0			
Green/Gray Clat to Clay Loam			
	3		
	5	4.1	20
-35	7	B	
633.0			
Gray to Grey/Green Sandy Clay Loam Till			
	3		
	7	4.1	13
629.0 -40	11	B	
End of Boring			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DESIGNED -	DAVID L. GREIFZU	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN
CHECKED -	MICHAEL D. ROLAPE		
DRAWN -	MICHAEL B. MOSSMAN	PASSED	Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES
CHECKED -	D.L.G. / M.D.R.	DATE -	DECEMBER 8, 2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 074-2006
SHEET NO. 5 OF 5 SHEETS

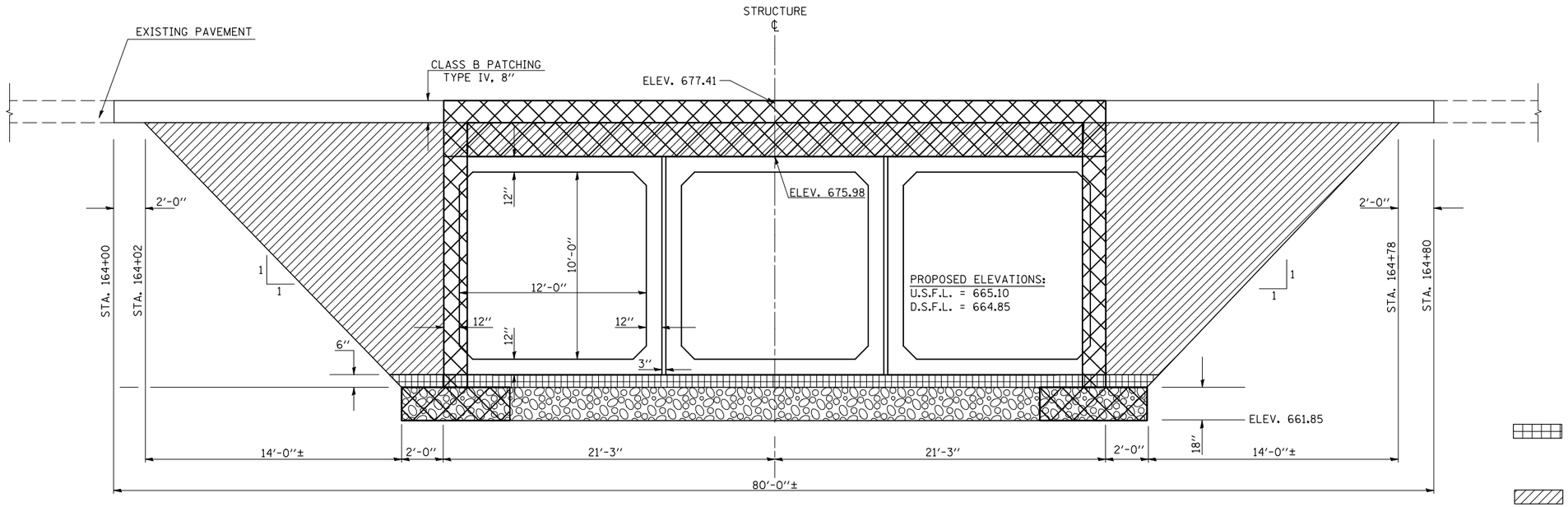
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	32
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

THIS SHEET INTENTIONALLY LEFT BLANK

DESIGNED -	EXAMINED Thomas J. Domagalski ENGINEER OF BRIDGE DESIGN	DATE - DECEMBER 8, 2010	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**		
CHECKED -					
DRAWN -	PASSED Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 1 OF 1 SHEETS	
CHECKED -					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	33
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR EMBANKMENT AT PROPOSED S.N. 074–2007 @ STA. 164 + 40.00



POROUS GRANULAR MATERIAL
- CA 7 (6″)
(INCLUDED IN PAY ITEM FOR
PRECAST BOX CULVERT)

PAY LIMITS OF POROUS GRANULAR
EMBANKMENT - CA 6
NOTE: POROUS GRANULAR BACKFILL
SHALL EXTEND 20′-0″ EACH SIDE
OF CENTERLINE

ADDITIONAL UNDERCUT(18″)
(PAID FOR AS STONE RIPRAP
,CLASS A1)

EXISTING STRUCTURE REMOVAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

PROPOSED S.N. 074-2007

F.A.S. 1531

SECTION (10B-1 & 11B-1)

PIATT COUNTY

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		DRAWN - SFC	REVISED -
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	PLOT DATE = 10/20/2010	DATE - 7/06/10	REVISED -

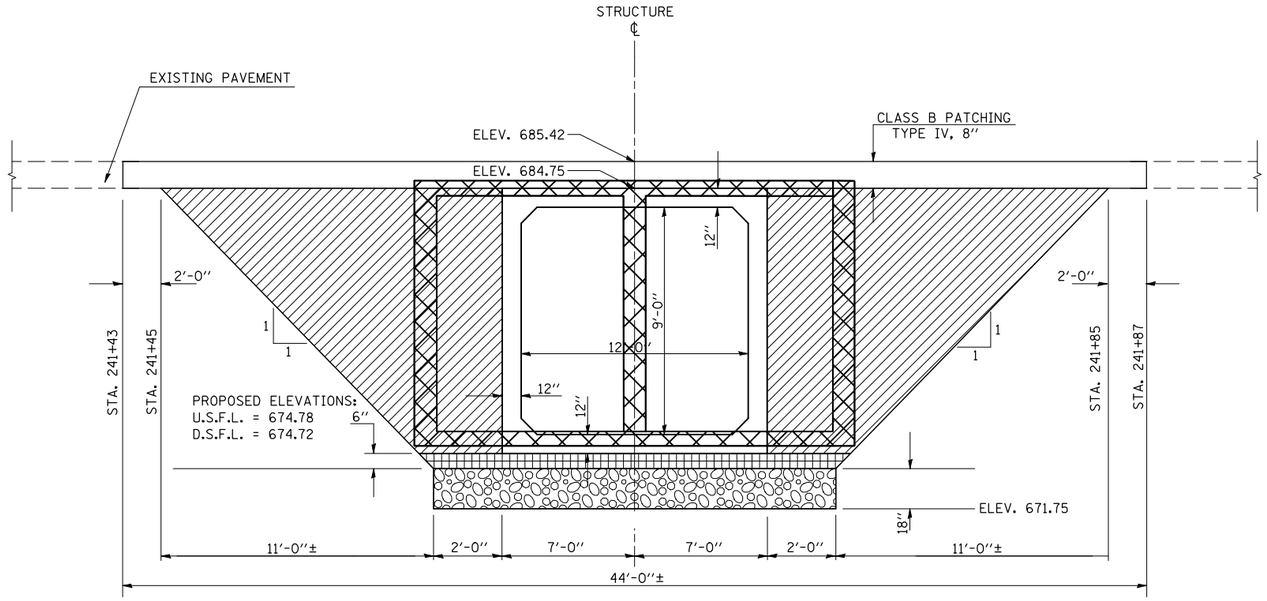
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POROUS GRANULAR EMBANKMENT DETAIL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	34
		CONTRACT NO. 70458		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR AT PROPOSED S.N. 074–8606 AT STA. 241+65.00



POROUS GRANULAR MATERIAL - CA 7 (6'')
(INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)

PAY LIMITS OF POROUS GRANULAR EMBANKMENT - CA 6
NOTE: POROUS GRANULAR BACKFILL SHALL EXTEND
20'-0'' EACH SIDE OF CENTERLINE

ADDITIONAL UNDERCUT(18'')
(PAID FOR AS STONE RIPRAP
,CLASS A1)

EXISTING STRUCTURE REMOVAL

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS
PROPOSED S.N. 074-8606
F.A.S. 1531
SECTION (10B-1 & 11B-1)
PIATT COUNTY

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	PLOT DATE = 10/20/2010	DATE - 7/06/10	REVISED -

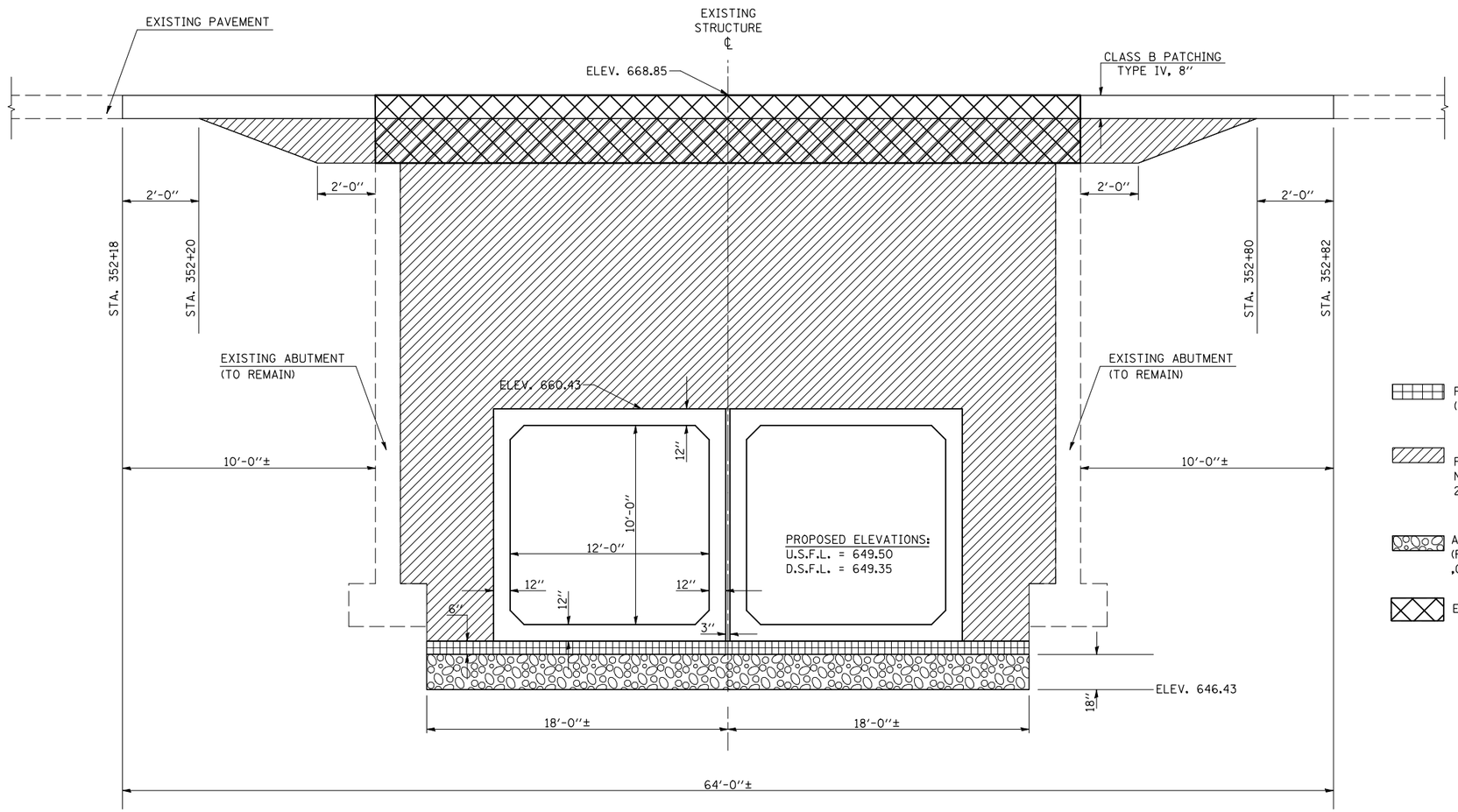
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POROUS GRANULAR EMBANKMENT DETAIL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	35
		CONTRACT NO. 70458		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR EMBANKMENT AT PROPOSED S.N. 074–2006 @ STA. 352 + 50.00



POROUS GRANULAR MATERIAL - CA 7 (6″)
(INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)

PAY LIMITS OF POROUS GRANULAR EMBANKMENT - CA 6
NOTE: POROUS GRANULAR BACKFILL SHALL EXTEND 20′-0″ EACH SIDE OF CENTERLINE

ADDITIONAL UNDERCUT(18″)
(PAID FOR AS STONE RIPRAP ,CLASS A1)

EXISTING STRUCTURE REMOVAL

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS
PROPOSED S.N. 074-2006
F.A.S. 1531
SECTION (10B-1 & 11B-1)
PIATT COUNTY

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	PLOT DATE = 10/20/2010	DATE - 7/06/10	REVISED -

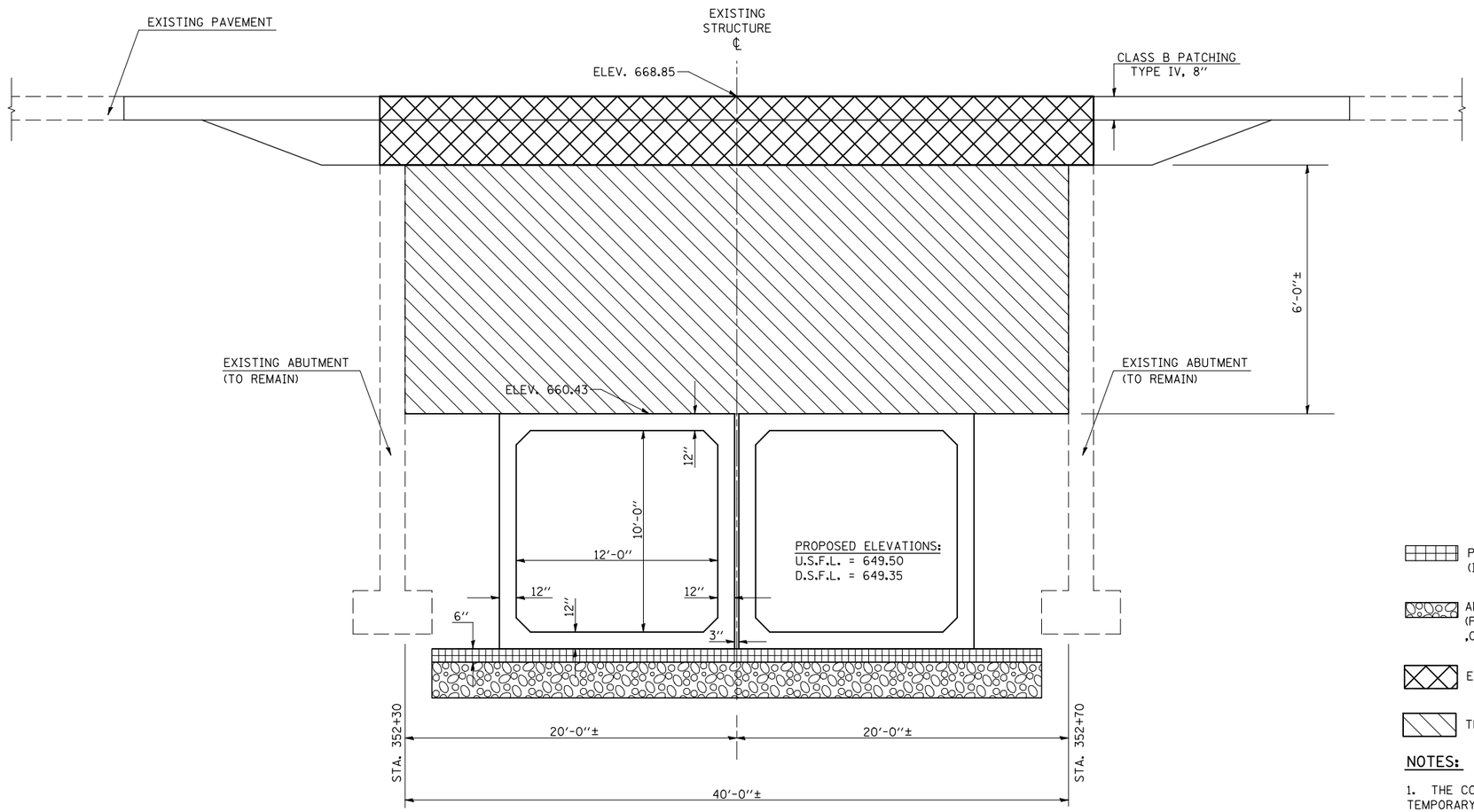
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POROUS GRANULAR EMBANKMENT DETAIL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	36
		CONTRACT NO. 70458		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF TEMPORARY SOIL RETENTION SYSTEM AT PROPOSED S.N. 074–2006 @ STA. 352+50.00



POROUS GRANULAR MATERIAL - CA 7 (6″)
(INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)

ADDITIONAL UNDERCUT(18″)
(PAID FOR AS STONE RIPRAP
,CLASS A1)

EXISTING STRUCTURE REMOVAL

TEMPORARY SOIL RETENTION SYSTEM

NOTES:

1. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS
PROPOSED S.N. 074-2006
F.A.S. 1531
SECTION (10B-1 & 11B-1)
PIATT COUNTY

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	PLOT DATE = 10/20/2010	DATE - 7/06/10	REVISED -

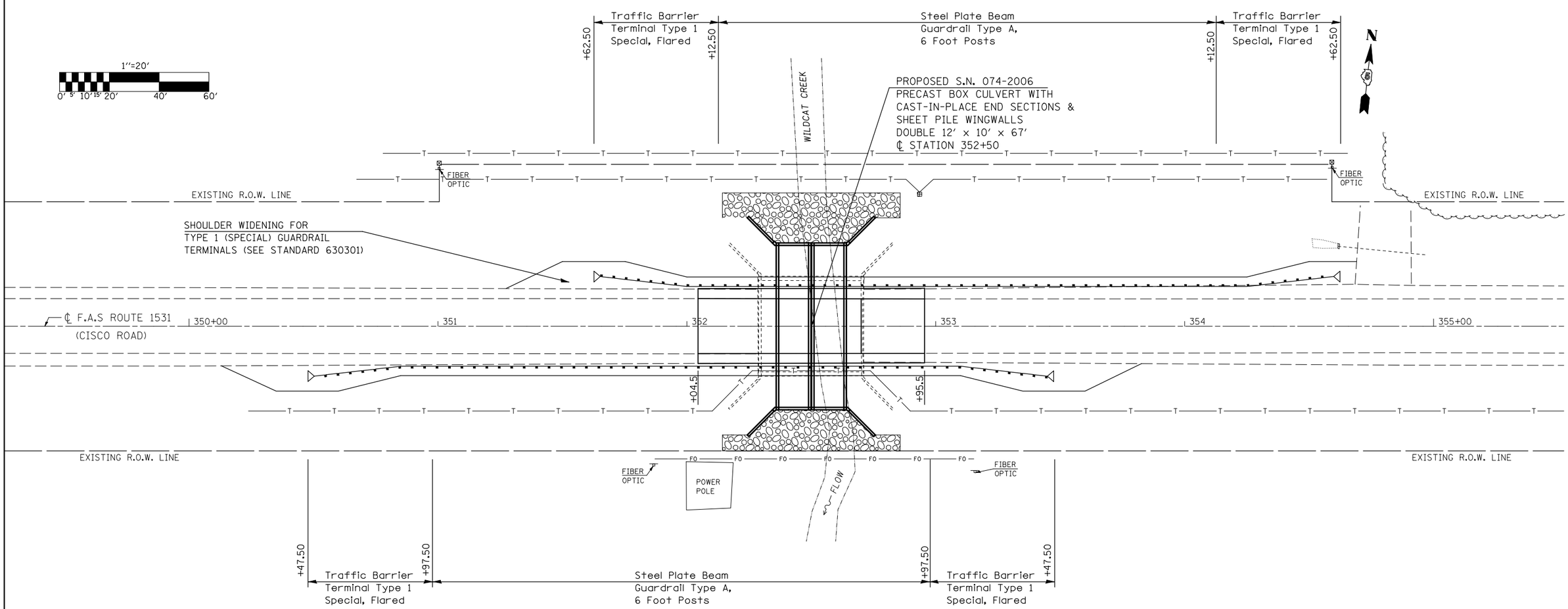
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM DETAIL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	37
		CONTRACT NO. 70458		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 10, T. 18 N., R. 5 E., 3rd P.M.



PROPOSED GUARDRAIL SCHEDULE

LOCATION	SIDE	APP/DEP	63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED				78201000 TERMINAL MARKER DIR. APPLIED	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS				78200410 GUARDRAIL MARKERS, TYPE A
			STATION	TO	STATION	(EACH)	(EACH)	STATION	TO	STATION	LENGTH (FOOT)	EACH
S.N. 074-2006	RT	APP	350+47.50	TO	350+97.50	1.0	1.0	350+97.50	TO	352+97.50	200.0	4.0
	RT	DEP	352+97.50	TO	353+47.50	1.0	1.0					
	LT	APP	351+62.50	TO	352+12.50	1.0	1.0	352+12.50	TO	354+12.50	200.0	4.0
	LT	DEP	354+12.50	TO	354+62.50	1.0	1.0					
					TOTALS =	4.0	4.0				400.0	8.0
					USE =	4.0	4.0				400.0	8.0

FILE NAME = c:\pw_work\pwidot\coombessf\d0135397\70458design.dgn	USER NAME = coombessf	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GUARDRAIL PLAN SHEET**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -			1531	10B-1 & 11B-1	PIATT	88	38
	PLOT DATE = 10/20/2010	CHECKED -	REVISED -					CONTRACT NO. 70458		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY

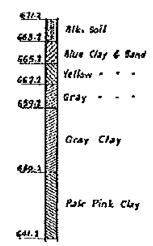
B.M. :- N.E.W. IN TOP OF EAST BENT
RT. STA. 164+78 ELEV. 678.52
EXIST. STRUCTURE - NONE

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 135	10-B	PIATT	28	26

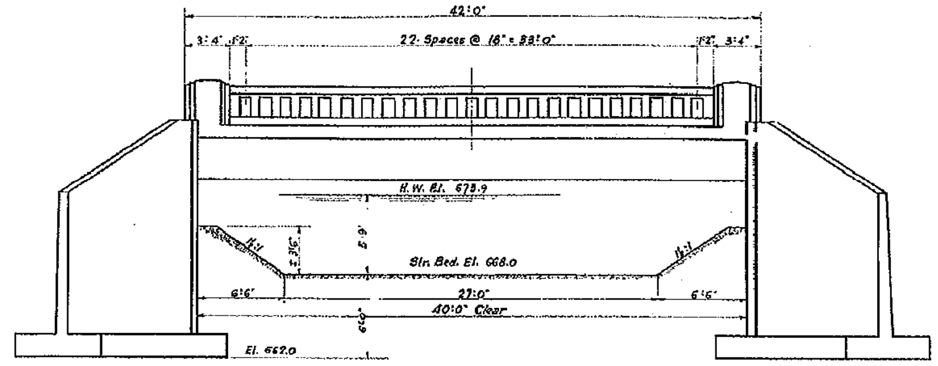
FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT - 384A

SHEET NO. 1
3 SHEETS



BORING
℄ @ Sta. 164+50

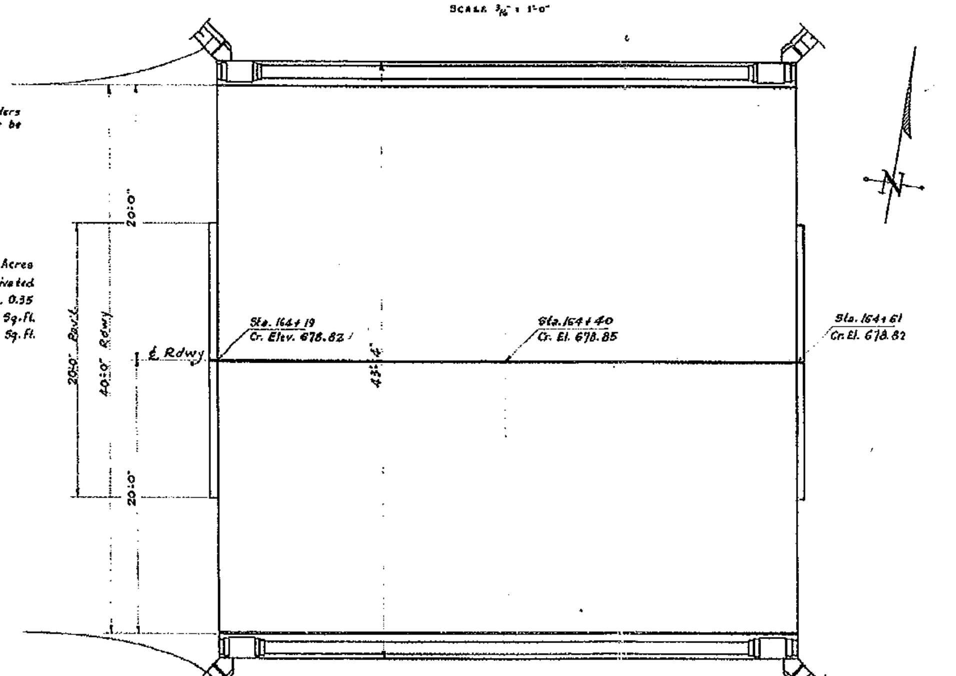
Borings are shown only as a guide to bidders in determining soil conditions which may be encountered in the work.



ELEVATION
Scale 3/16" = 1'-0"

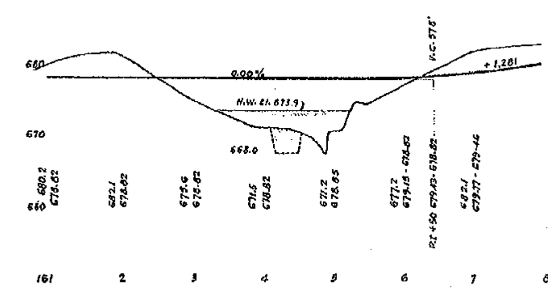
DRAINAGE DATA

Drainage Area .... 5000 Acres
Character .... Rolling, level, wooded, cultivated
Assumed "c" 0.35
Opening Required .... 210 Sq.Ft.
Opening Provided .... 210 Sq.Ft.

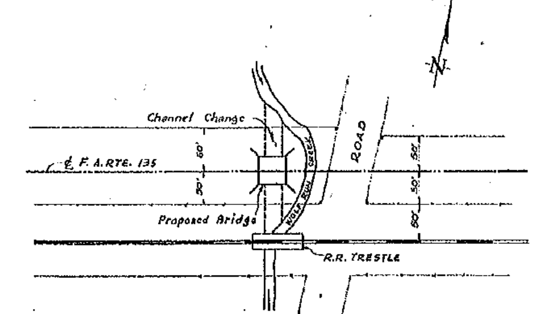


PLAN
Scale 3/16" = 1'-0"

TOTAL BILL OF MATERIAL				
ITEM		SUPER-	SUBSTR.	TOTAL
Handrail Concrete	Cu.Yds.	4.7		4.7
Class X Concrete	Cu.Yds.	89.3	124.4	213.7
Reinforcement Bars	Lbs.	26,460	9900	36,360
Floor Drains	Each	8		8
Untreated Piling (20ft. lg.)	Lin.ft.		1440	1440
Test Piles	Each		one	one
Channel Excavation	Cu.Yds		800	800



PROFILE



LOCATION SKETCH

Channel Change to be made by the Bridge Contractor 27 ft. bottom width; 1½:1 side slopes.
Estimated Channel Excavation .... 800 Cu.Yds.
Excavated material to be used to fill old channel, and any excess to be placed as roadway embankment between Sta. 156+50 and 160+50

STANDARD	COMPUTED	J. H. Alexander
	CHECKED	R. E. Brown
	DRAWN	J.H.A. / L. Fischer
	CHECKED	R.E.B.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED
PASSED
APPROVED

F. A. RTE. 135 - SECTION 10-B
PIATT COUNTY
STA. 164+40

1-20-LOADING

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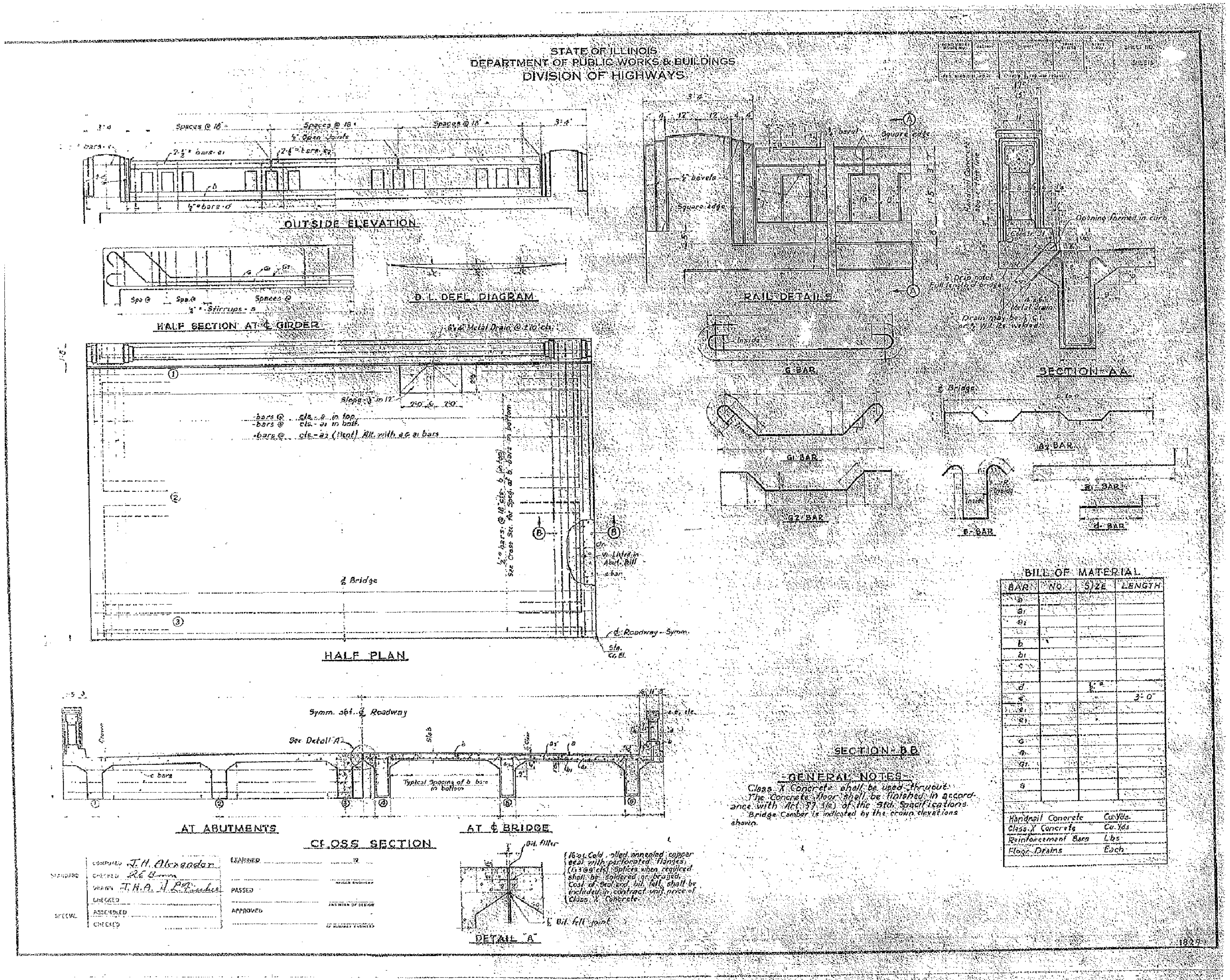
		DRAWN - SFC	REVISED -		
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -		
	PLOT DATE = 10/20/2010	DATE - 7/14/10	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	39

CONTRACT NO. 70458

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
OUTSIDE ELEVATION
HALF SECTION AT ℄ GIRDER
D. L. DEFL. DIAGRAM
RAIL DETAILS
SECTION A-A
G BAR
G1 BAR
G2 BAR
a2 BAR
e BAR
d BAR
HALF PLAN
SECTION B-B
AT ABUTMENTS
CROSS SECTION
AT ℄ BRIDGE
DETAIL "A"
GENERAL NOTES
Class X Concrete shall be used throughout.
The Concrete floor shall be finished in accordance with Art. 37.3(a) of the Std. Specifications.
Bridge Camber is indicated by the crown elevations shown.
BILL OF MATERIAL
BAR
NO.
SIZE
LENGTH
Handrail Concrete
Cu. Yds.
Class X Concrete
Cu. Yds.
Reinforcement Bars
Lbs.
Floor Drains
Each
1929

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	PLOT DATE = 10/20/2010	DATE - 7/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STUCTURE 074-0017 DETAILS

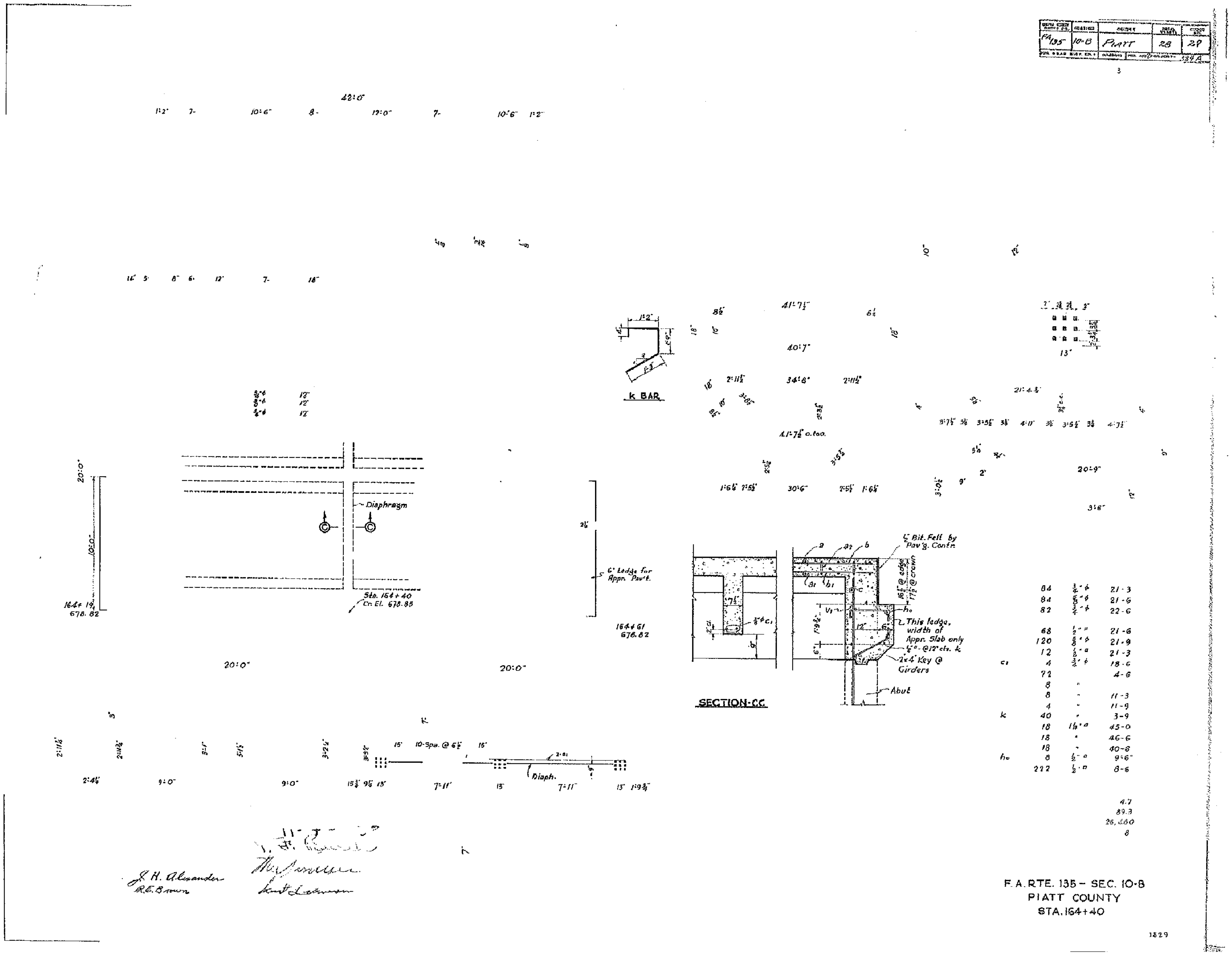
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	40

CONTRACT NO. 70458

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

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



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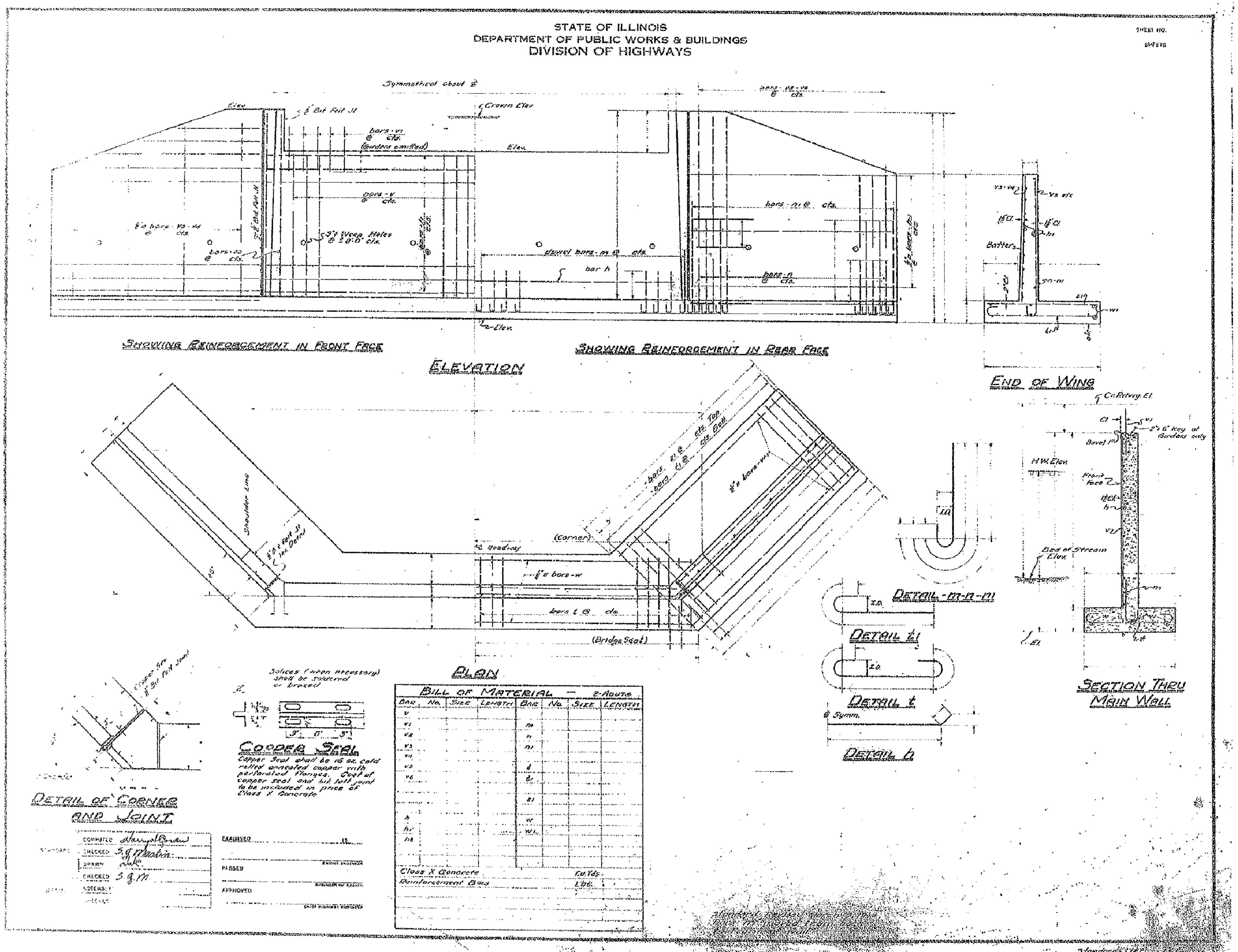
THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
SHOWING REINFORCEMENT IN FRONT FACE
ELEVATION
SHOWING REINFORCEMENT IN REAR FACE
END OF WING
PLAN
DETAIL OF CORNER AND JOINT
COPPER SEAL
Copper Seal shall be 16 oz. cold rolled annealed copper with perforated flanges. Cost of copper seal and bit. felt joint to be included in price of Class X Concrete
BILL OF MATERIAL
Class X Concrete
Reinforcement Bars
DETAIL m-n-n1
DETAIL t1
DETAIL t
DETAIL h
SECTION THRU MAIN WALL

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	PLOT DATE = 10/20/2010	CHECKED -	REVISED -
		DATE - 7/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STUCTURE 074-0017 DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	42

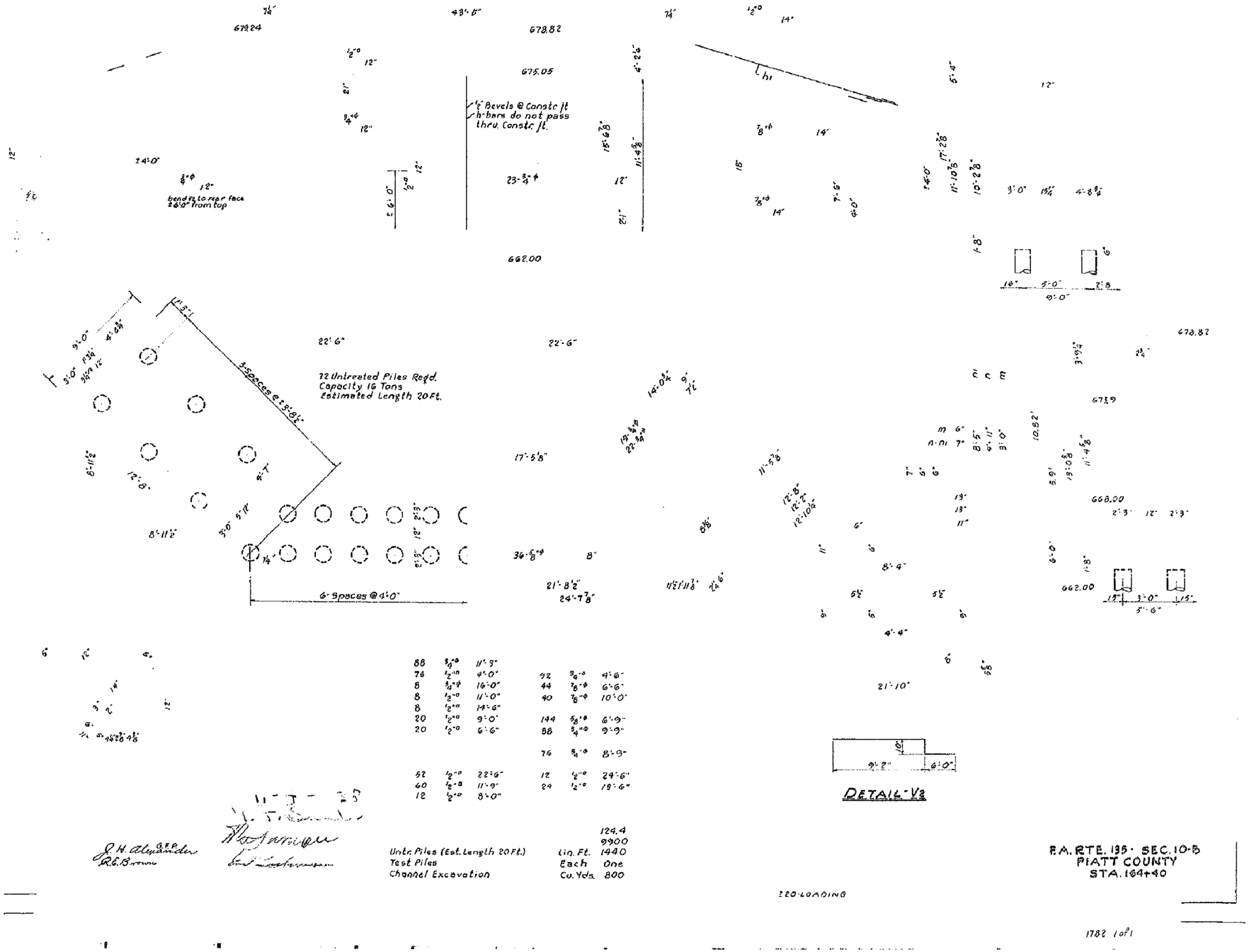
CONTRACT NO. 70458

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY

FED. ROAD DIST. NO.	STATE	COUNTY	TOTAL SHEETS	SHEET NO.
FA 135	10-B	PIATT	28	25

3



88	⅝"ø	11'-3"
78	½"ø	4'-0"
8	⅝"ø	16'-0"
8	½"ø	11'-0"
8	½"ø	14'-6"
20	½"ø	9'-0"
20	½"ø	6'-6"
52	½"ø	22'-6"
40	½"ø	11'-9"
12	½"ø	8'-0"
92	⅝"ø	4'-6"
44	⅞"ø	6'-6"
40	⅞"ø	10'-0"
144	⅝"ø	6'-9"
88	¾"ø	9'-9"
76	⅝"ø	8'-9"
12	½"ø	29'-6"
24	½"ø	19'-6"

J. H. Alexander, G.E.P.
R.E. Brown

Untr. Piles (Est. Length 20 Ft.)	Lin. Ft.	124.4
Test Piles	Each	9900
Channel Excavation	Cu. Yds.	1440
		800

220-LOADING

F.A. RTE. 135 · SEC. 10-B
PIATT COUNTY
STA. 164+40

1782 10P1

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	PLOT DATE = 10/20/2010	DATE - 7/14/10	REVISED -

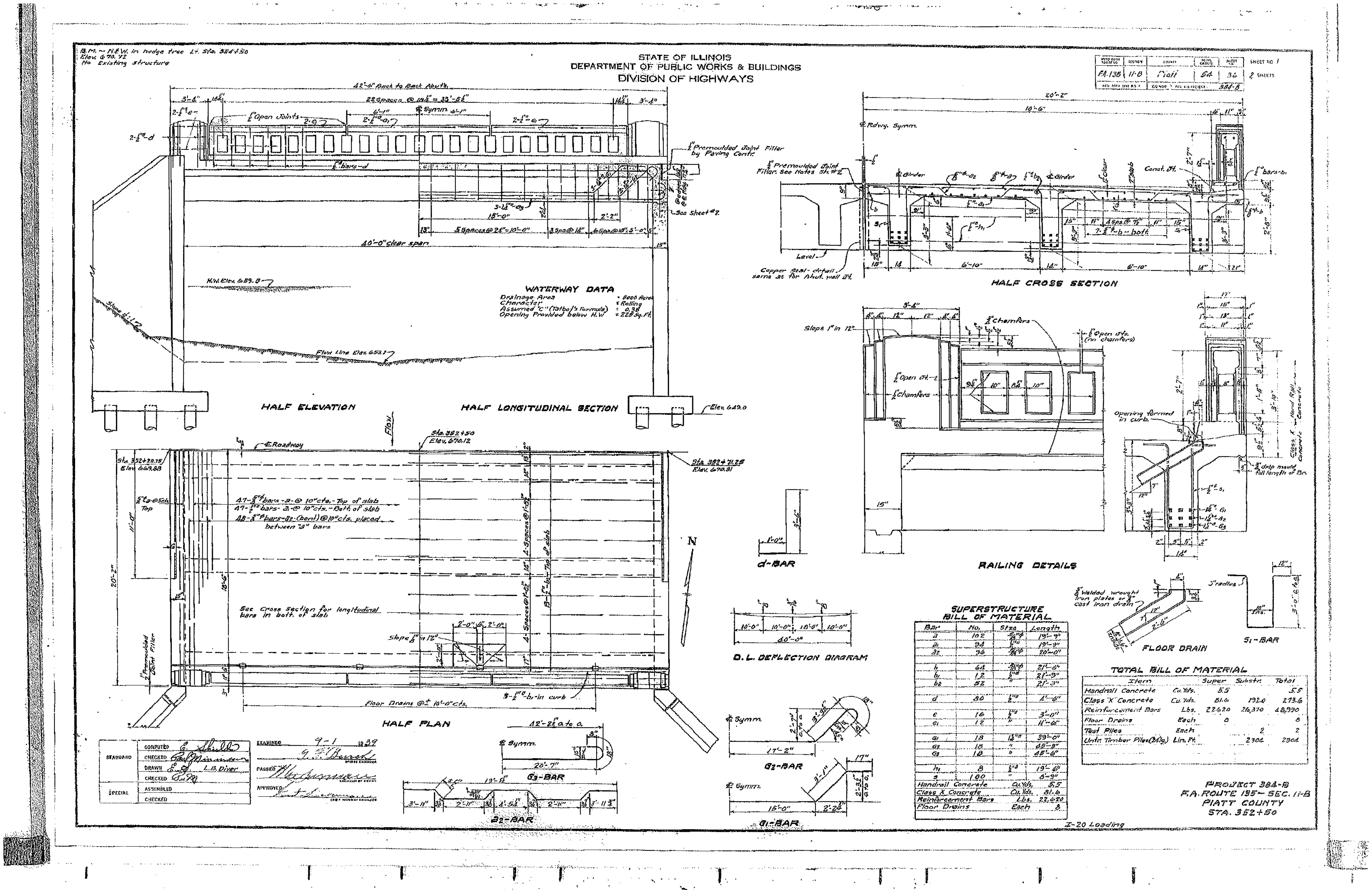
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STUCTURE 074-0017 DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	43
		CONTRACT NO. 70458		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length
a	102	5/8"φ	19'-9"
a1	94	1/2"□	19'-9"
a2	96	5/8"φ	20'-0"
b	64	5/8"φ	21'-6"
b1	12	1/2"□	21'-9"
b2	52	"	21'-3"
d	80	1/2"□	4'-6"
e	16	1/2"□	3'-0"
e1	12	"	11'-6"
G1	18	1 1/4"□	39'-0"
G2	18	"	45'-9"
G3	18	"	45'-6"
h1	8	1/2"□	19'-6"
s	180	"	8'-9"
Handrail Concrete		Cu. Yds.	5.5
Class X Concrete		Cu. Yds.	81.6
Reinforcement Bars		Lbs.	22,620
Floor Drains		Each	8

TOTAL BILL OF MATERIAL

Item		Super	Substr.	Total
Handrail Concrete	Cu. Yds.	5.5		5.5
Class "X" Concrete	Cu. Yds.	81.6	192.0	273.6
Reinforcement Bars	Lbs.	22620	26,370	48,990
Floor Drains	Each	8		8
Test Piles	Each		2	2
Untr. Timber Piles (24'lg.)	Lin. Ft.		2304	2304

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	PLOT DATE = 10/20/2010	CHECKED -	REVISED -
		DATE - 7/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STUCTURE 074-0018 DETAILS

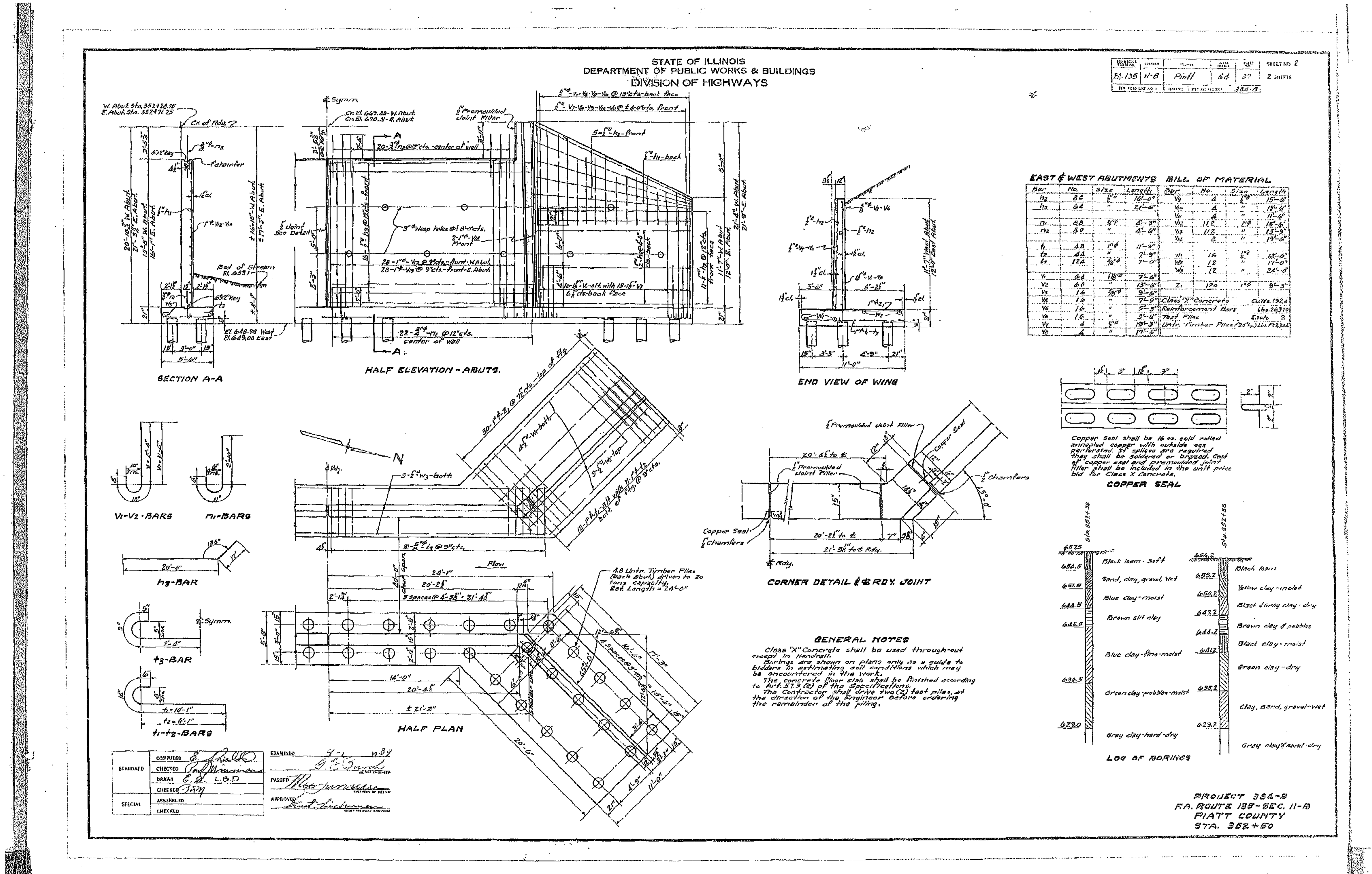
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	44

CONTRACT NO. 70458

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



EAST & WEST ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Bar	No.	Size	Length
h2	86	½"ø	16'-0"	V9	4	½"ø	15'-6"
h3	64	"	21'-6"	V10	4	"	13'-6"
				V11	4	"	11'-6"
n1	88	¾"ø	4'-3"	V12	112	1"ø	15'-6"
n2	80	"	4'-6"	V13	112	"	15'-9"
				V14	8	"	19'-6"
t1	48	1"ø	11'-9"				
t2	44	"	7'-9"	W1	16	½"ø	18'-6"
t3	124	⅝"ø	7'-0"	W2	12	"	17'-0"
				W3	12	"	24'-8"
V1	64	1⅛"ø	7'-6"				
V2	60	"	13'-6"	Z1	170	1"ø	9'-3"
V3	16	⅝"ø	9'-6"				
V4	16	"	7'-8"	Class "X" Concrete			Cu.Yds. 192.0
V5	16	"	5'-3"	Reinforcement Bars			Lbs. 24370
V6	16	"	3'-6"	Test Piles			Each 2
V7	4	½"ø	19'-3"	Untr. Timber Piles (24' lg.)			Lin. Ft. 2304
V8	4	"	17'-6"				

GENERAL NOTES

Class "X" Concrete shall be used through-out except in Handrail.

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

The concrete floor slab shall be finished according to Art. 57.3 (e) of the Specifications.

The Contractor shall drive two (2) test piles, at the direction of the Engineer before ordering the remainder of the piling.

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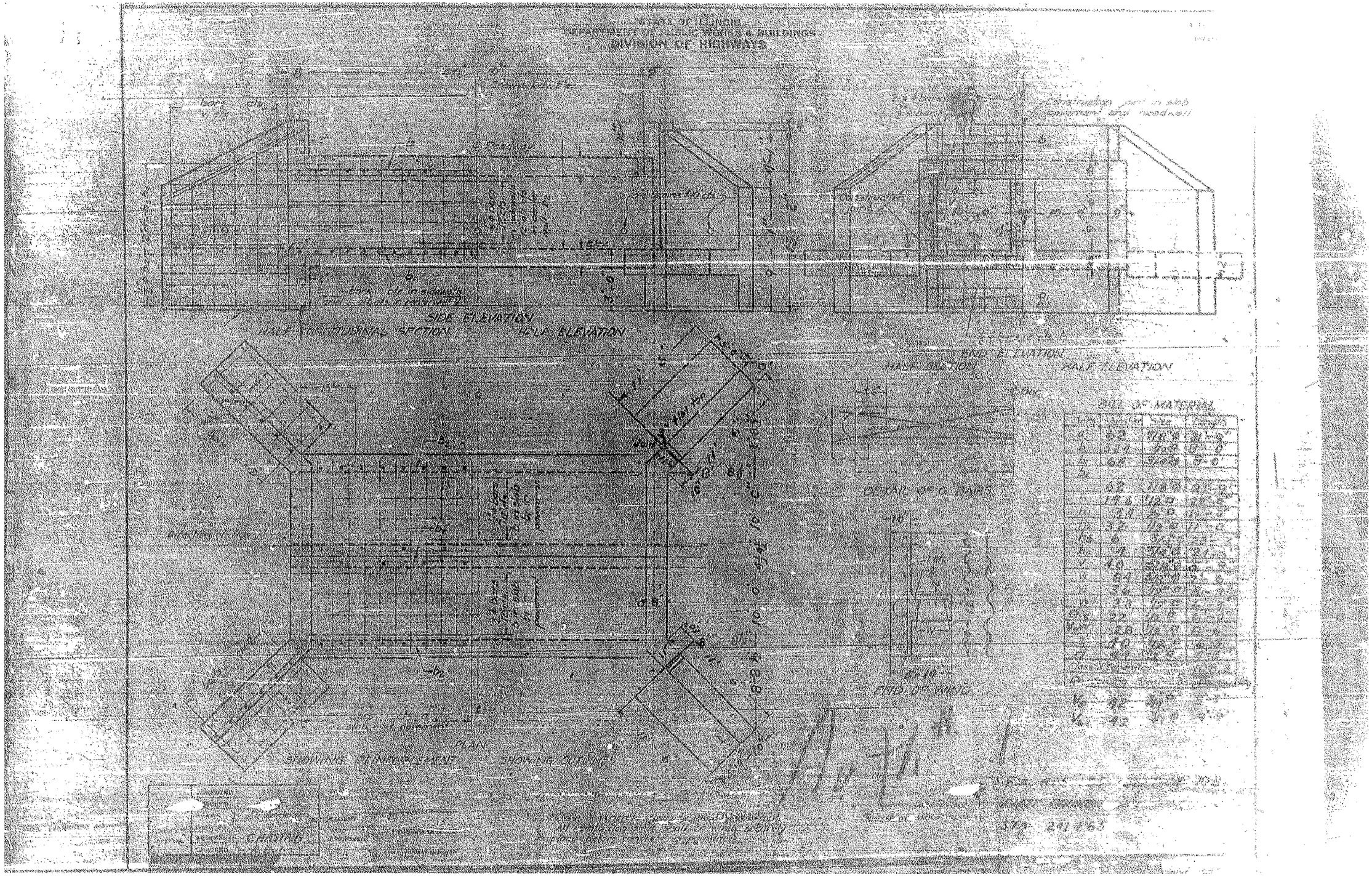
THIS DETAIL IS INCLUDED FOR INFORMATION ONLY



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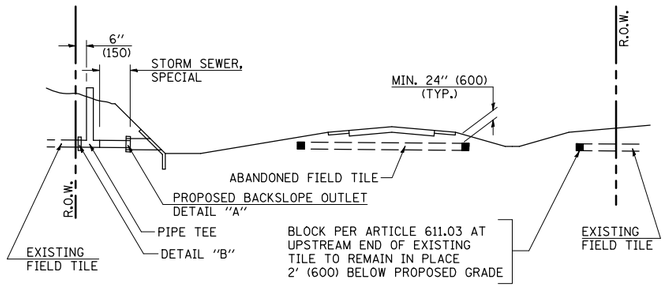
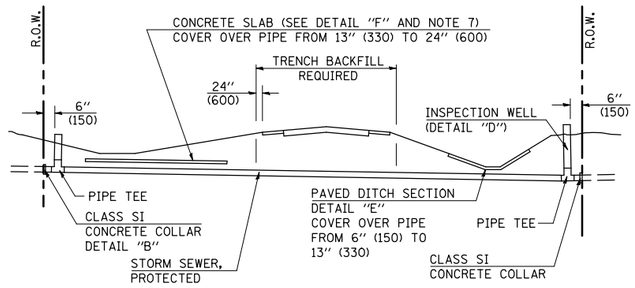


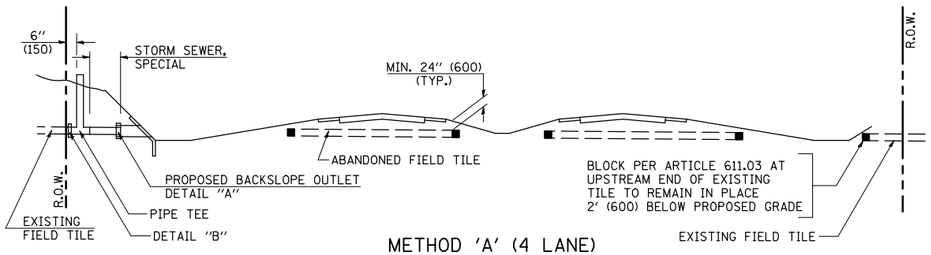
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



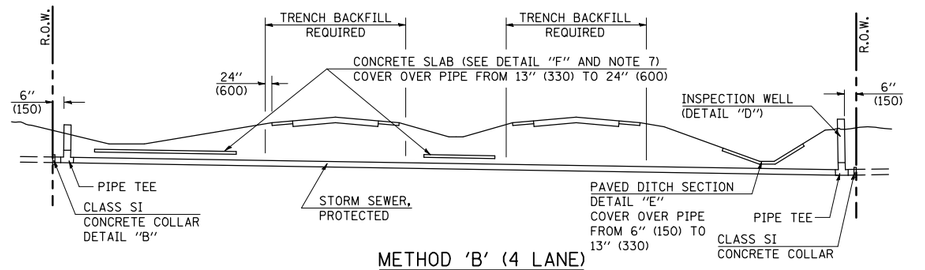
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



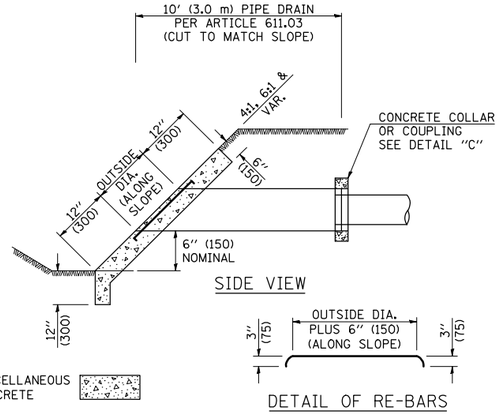
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

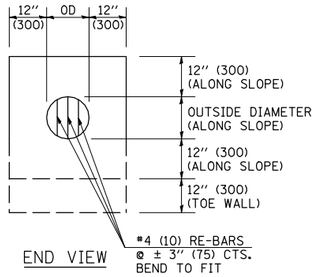


METHOD 'B' (4 LANE)

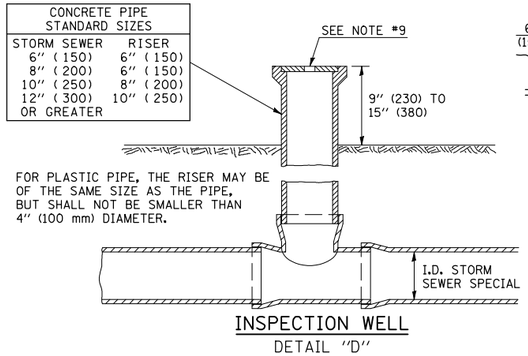
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



DETAIL OF RE-BARS

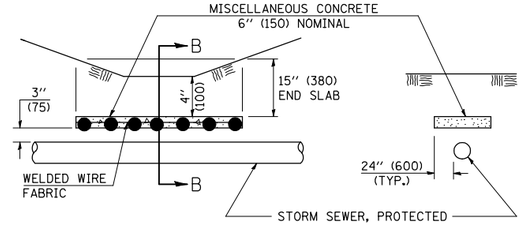


CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300) OR GREATER	10" (250)



INSPECTION WELL

DETAIL "D"



SLAB ELEVATION

SECTION B-B

CONCRETE SLAB

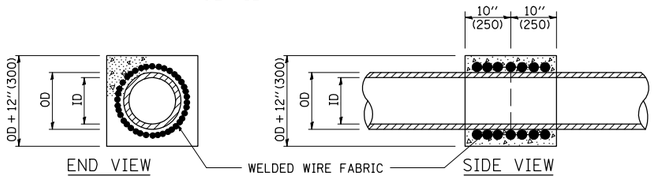
DETAIL "F"

GENERAL NOTES

1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
4. EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
5. NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
6. THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
9. THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.

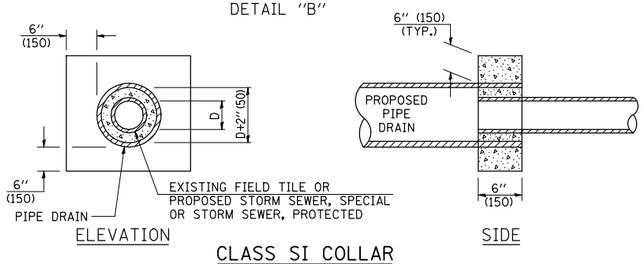
HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"



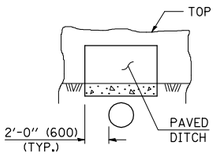
CONCRETE COLLAR

DETAIL "B"



CLASS SI COLLAR

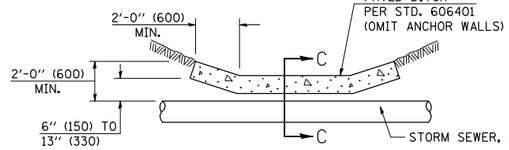
DETAIL "C"



SECTION C-C

PAVED DITCH

DETAIL "E"



PAVED DITCH ELEVATION

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 61101011A

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

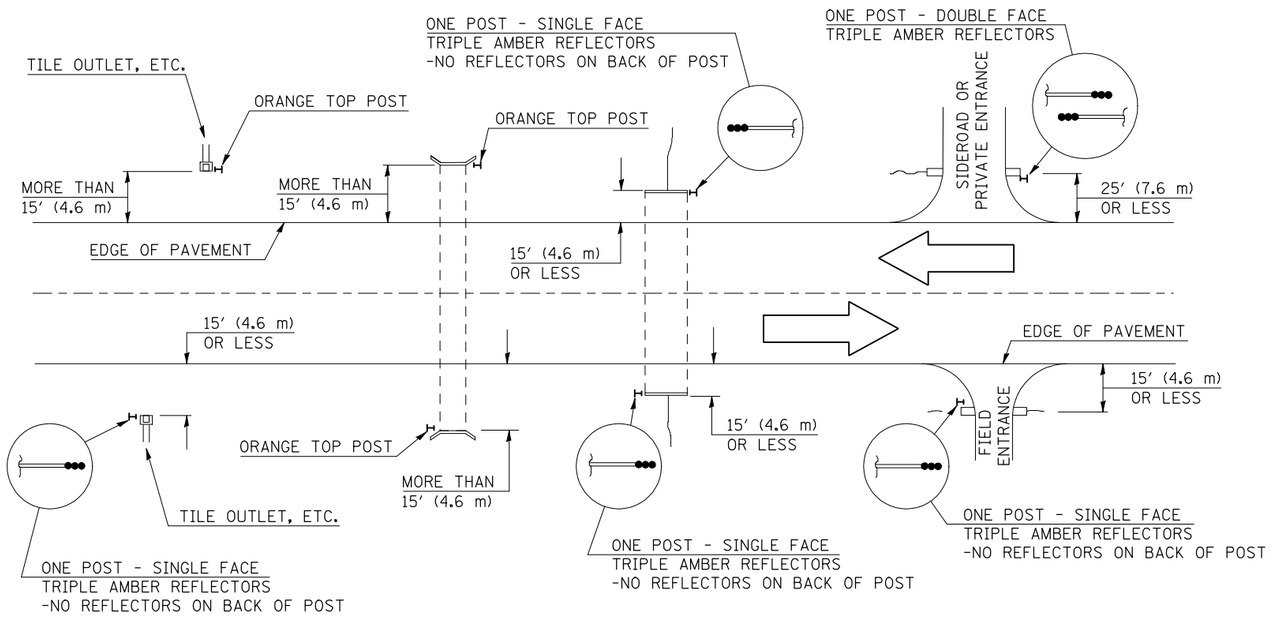
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	47
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

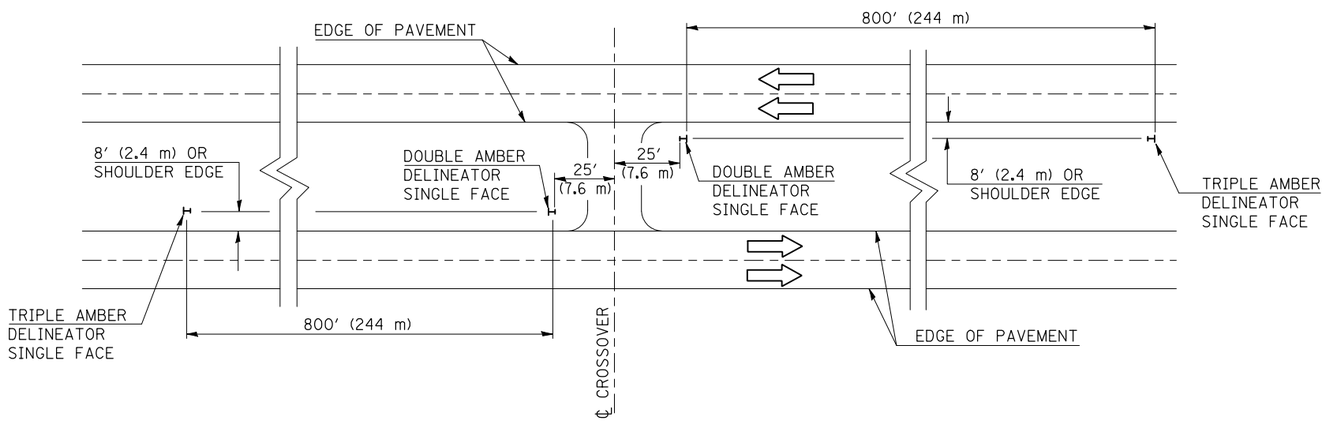
IDENTIFICATION OF ROADSIDE HAZARDS FOR TWO-LANE ROADWAYS



BILL OF MATERIALS

DELINEATOR TYPE	SINGLE FACE	DOUBLE FACE	NO REFLECTOR	TOTAL DELINEATORS
SINGLE CRYSTAL		N/A	N/A	
DOUBLE CRYSTAL			N/A	
SINGLE AMBER			N/A	
DOUBLE AMBER		N/A	N/A	
TRIPLE AMBER			N/A	1.0
ORANGE TOP	N/A	N/A	4.0	4.0
			TOTAL	5.0

MEDIAN DELINEATORS AT CROSSOVER
(FOR INTERSTATES, EXPRESSWAYS, DUAL HIGHWAYS)



NOTES

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE THERE IS NO GUARDRAIL, OR OTHERPERMANENT BARRIER, ON THE SAME SIDE OF ROAD AS THE HAZARD.

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE DELINEATORS ARE NOT IN PLACE ALONG THE EDGE OF SHOULDER.

EACH POST SHALL BE CONSIDERED AS ONE DELINEATOR FOR PAYMENT, REGARDLESS OF THE NUMBER OF DELINEATORS ATTACHED TO IT.

POSTS INDICATED AS "ORANGE TOP" SHALL HAVE NO REFLECTORS. THEY SHALL HAVE THE TOP 12" (300 mm) (MINIMUM) OF THE POST PAINTED A BRIGHT ORANGE COLOR SIMILAR TO CONSTRUCTION SIGNS, AND SHALL MEET THE APPROVAL OF THE ENGINEER. FLUORESCENT PAINT OR OTHER SPECIAL RETROREFLECTIVE COATINGS WILL NOT BE REQUIRED.

FOR ONE-WAY ROADWAYS THE APPLICATION SHALL BE SIMILAR WITH DELINEATORS PLACED ON THE TRAFFIC APPROACH SIDE OF HAZARDS AND OBJECTS. ONLY SINGLE FACE DELINEATORS WILL BE REQUIRED ON ONE-WAY ROADWAYS.

FOR OTHER DELINEATOR APPLICATIONS, REFER TO HIGHWAY STANDARD 635001.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 63500105

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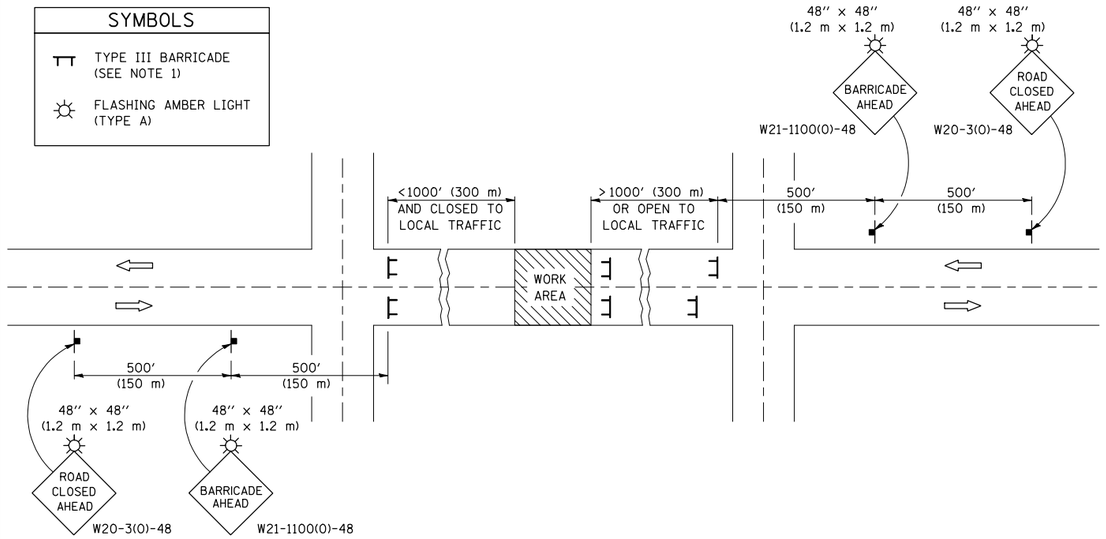
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATORS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	48
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

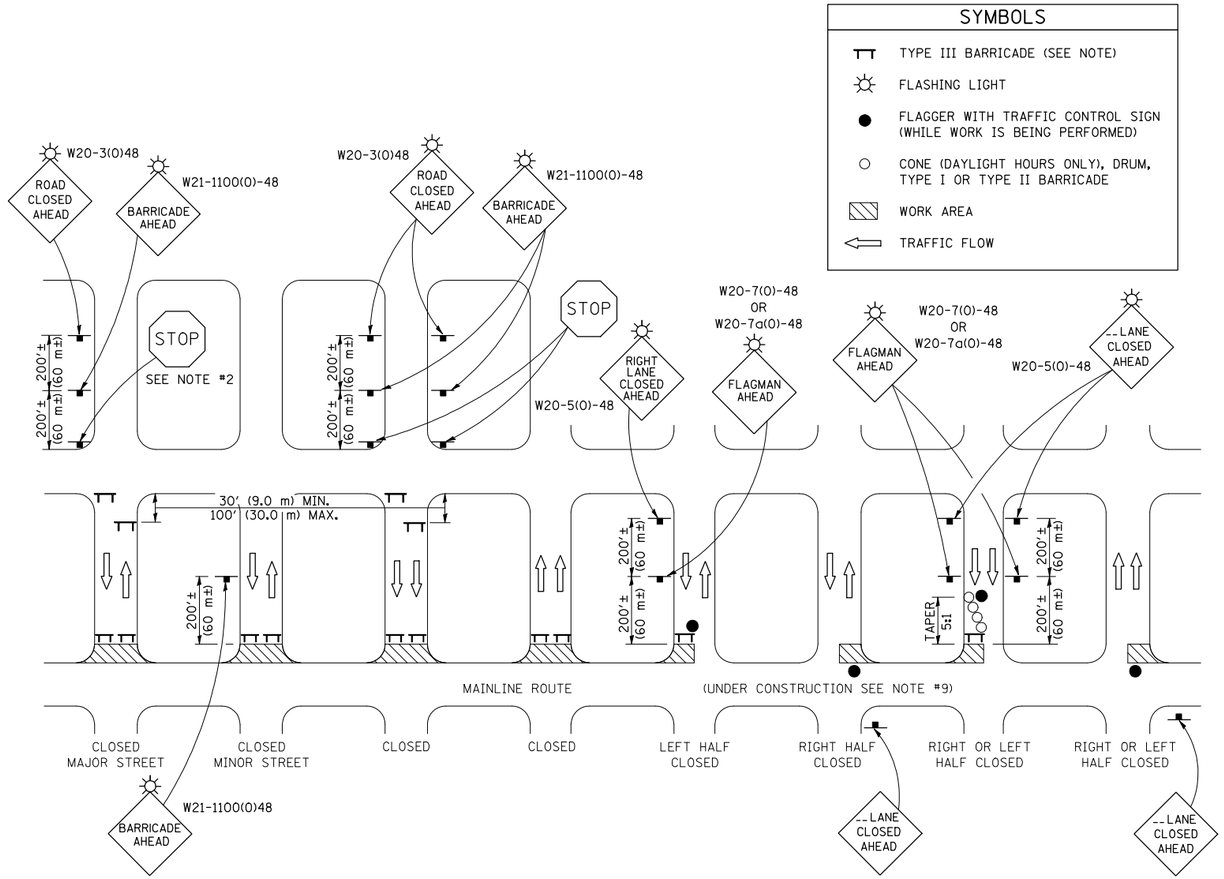
ROAD CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
7. FORMS BT 725 AND BT 726 ARE REQUIRED.
8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
9. ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

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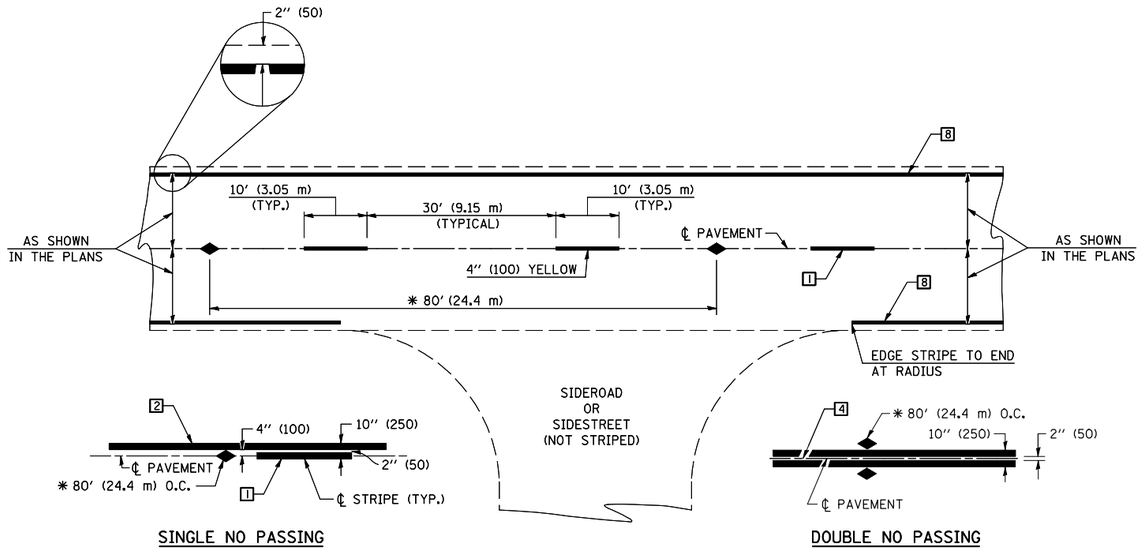
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/STREET CLOSURES)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	49
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			



SINGLE NO PASSING

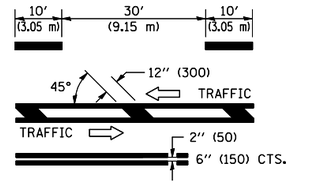
DOUBLE NO PASSING

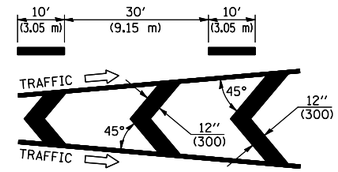
✱ REDUCE TO 40′ (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

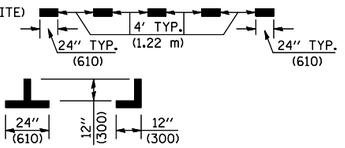
TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LEGEND

1. 4″ (100) SKIP-DASH (YELLOW)
2. 4″ (100) SOLID (YELLOW)
3. 12″ (300) DIAGONAL (YELLOW)
4. 4″ (100) DOUBLE YELLOW (NARROW)
5. RESERVED
6. RESERVED
7. 4″ (100) SKIP-DASH (WHITE)
8. 4″ (100) SOLID (WHITE)
9. 12″ (300) DIAGONAL (WHITE)
10. 6″ (150) SOLID (WHITE)
11. 24″ (600) STOP BAR (WHITE)
12. 8″ (200) SOLID (WHITE)
13. 4″ (100) LANE LINE EXTENSIONS (WHITE)
14. 4″ (100) PARKING WHITE



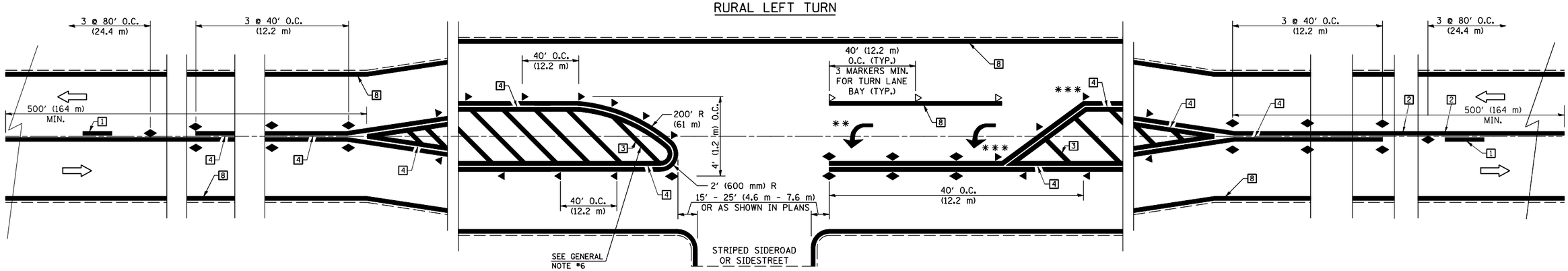




TYPICAL PAVEMENT MARKERS LEGEND

- TWO-WAY AMBER MARKER
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



✱✱✱ REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

✱✱ TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

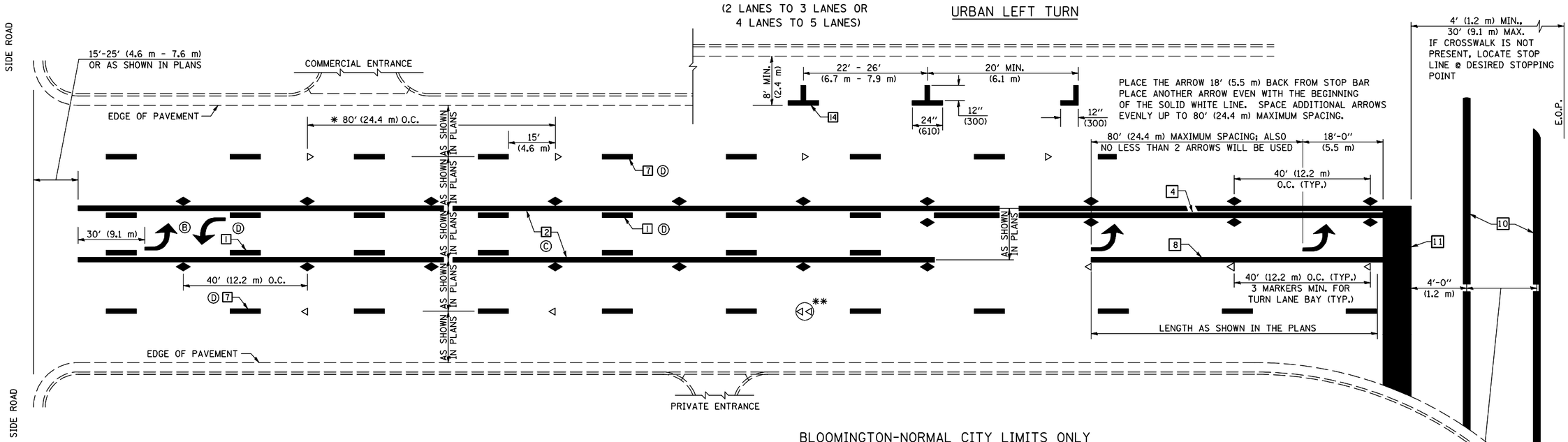
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	50
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

URBAN LEFT TURN



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

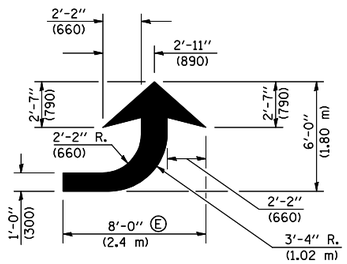
GENERAL NOTES:

Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.

Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.

Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

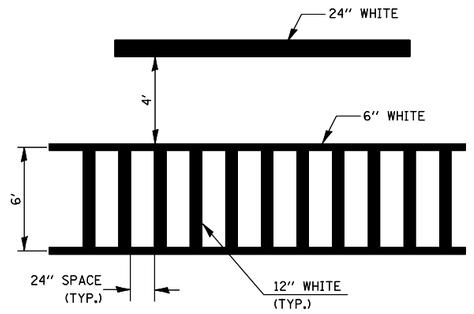
Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



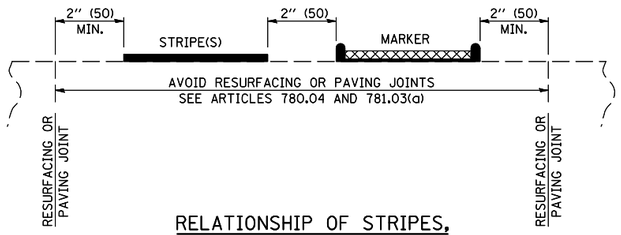
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m^2)
(WHITE)

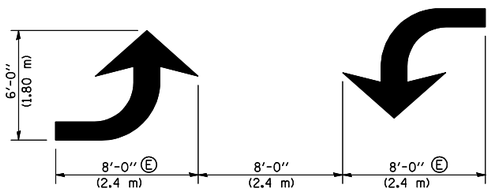
BLOOMINGTON-NORMAL CITY LIMITS ONLY



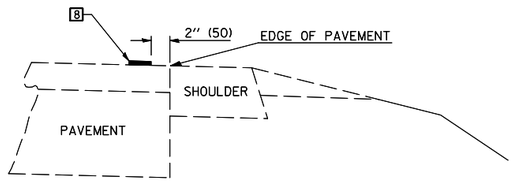
TYPICAL SPACING FOR
CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS



TYPICAL DOUBLE
TURN ARROWS (WHITE)



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/20/2010	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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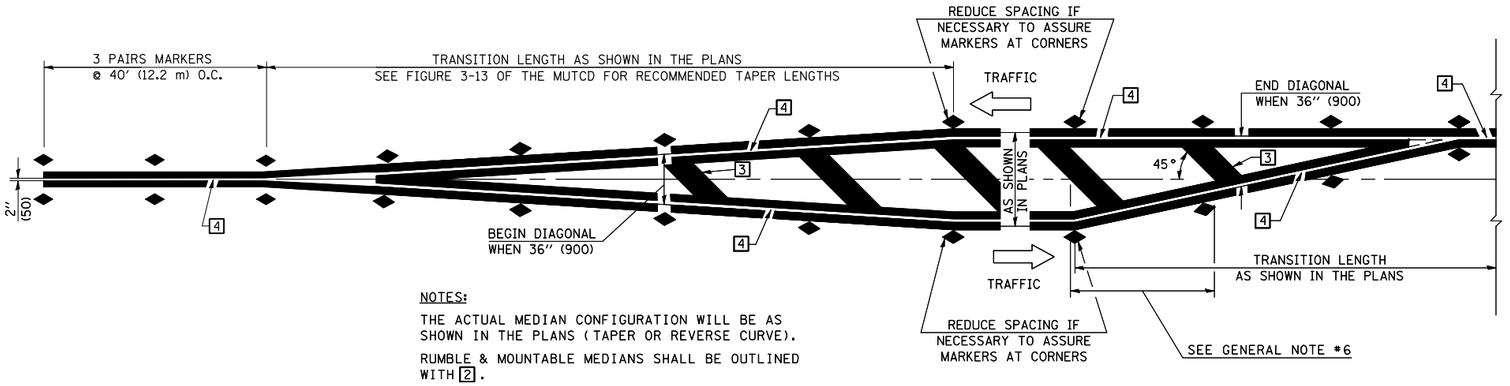
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			



NOTES:

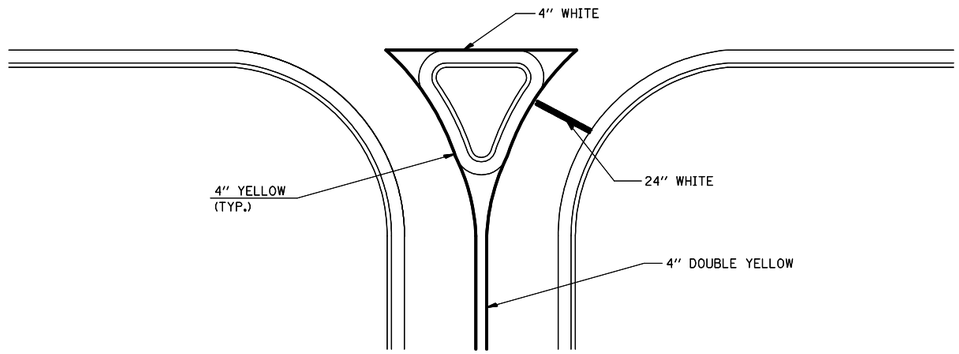
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).

RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

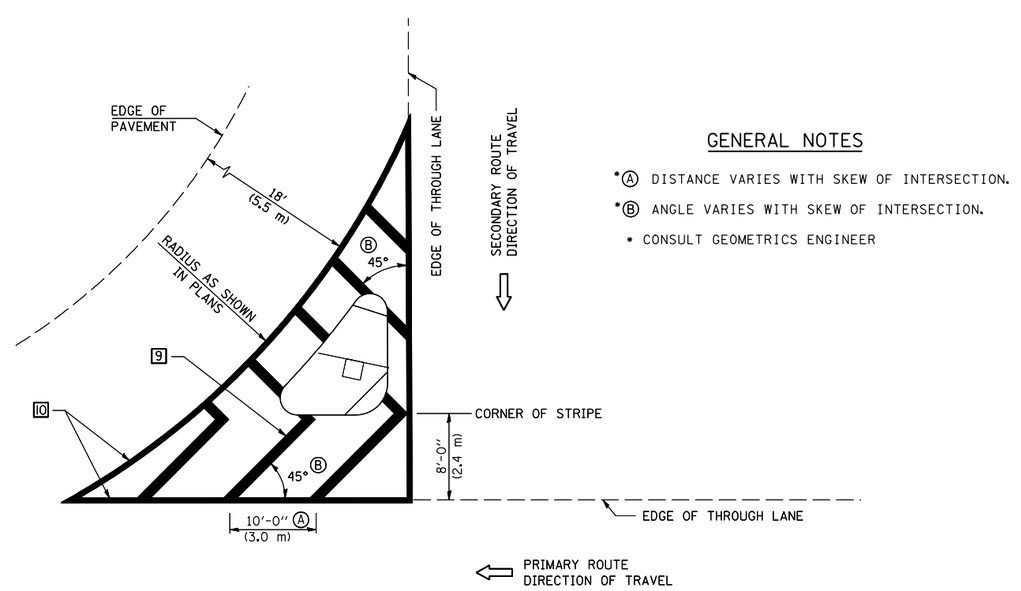
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
   <30 MPH USE 15' (<50 km/h USE 4.5 m)
   30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
   >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



ISLAND

GENERAL NOTES

*Ⓐ DISTANCE VARIES WITH SKEW OF INTERSECTION.

*Ⓑ ANGLE VARIES WITH SKEW OF INTERSECTION.

* CONSULT GEOMETRICS ENGINEER

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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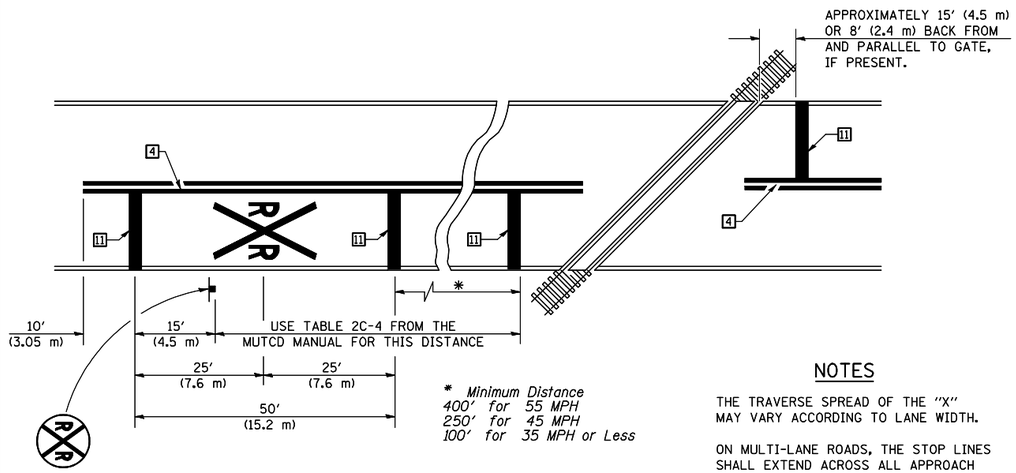
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKINGS AT
RAILROAD-HIGHWAY GRADE CROSSING

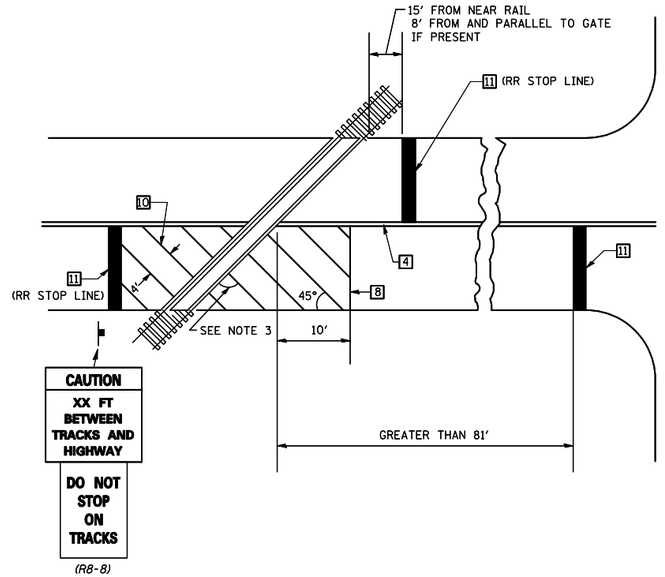
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

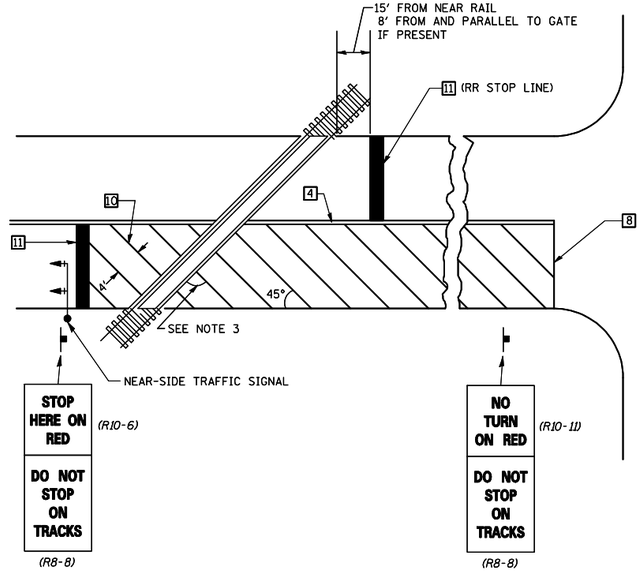
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

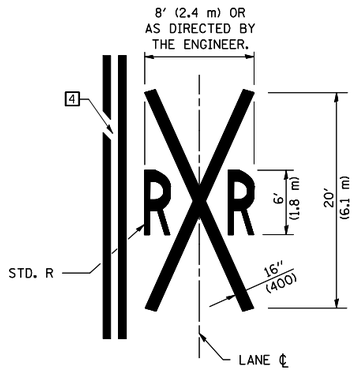
RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR
RAILROAD-HIGHWAY GRADE CROSSING



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

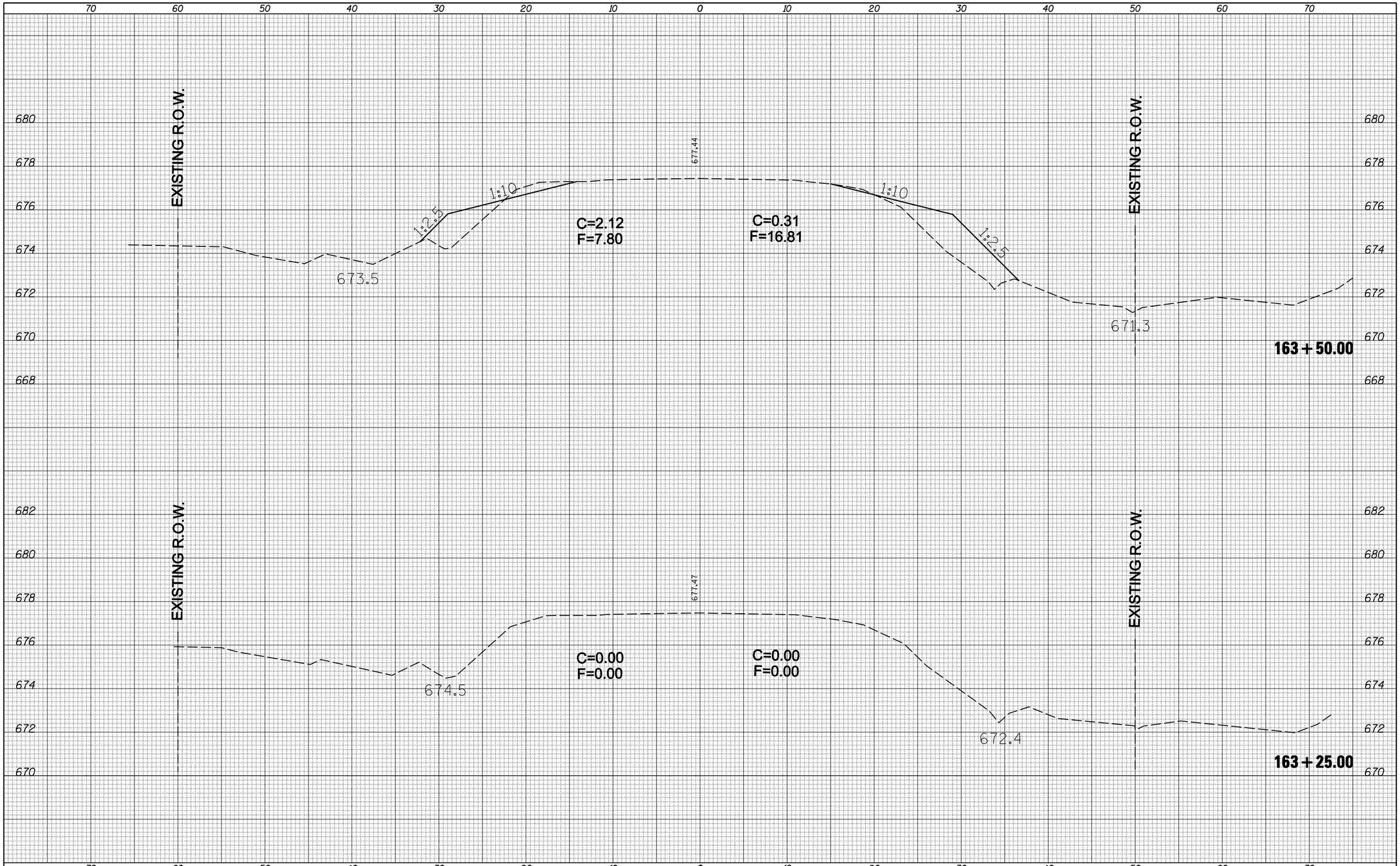
PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	53
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE



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

BY	DATE

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

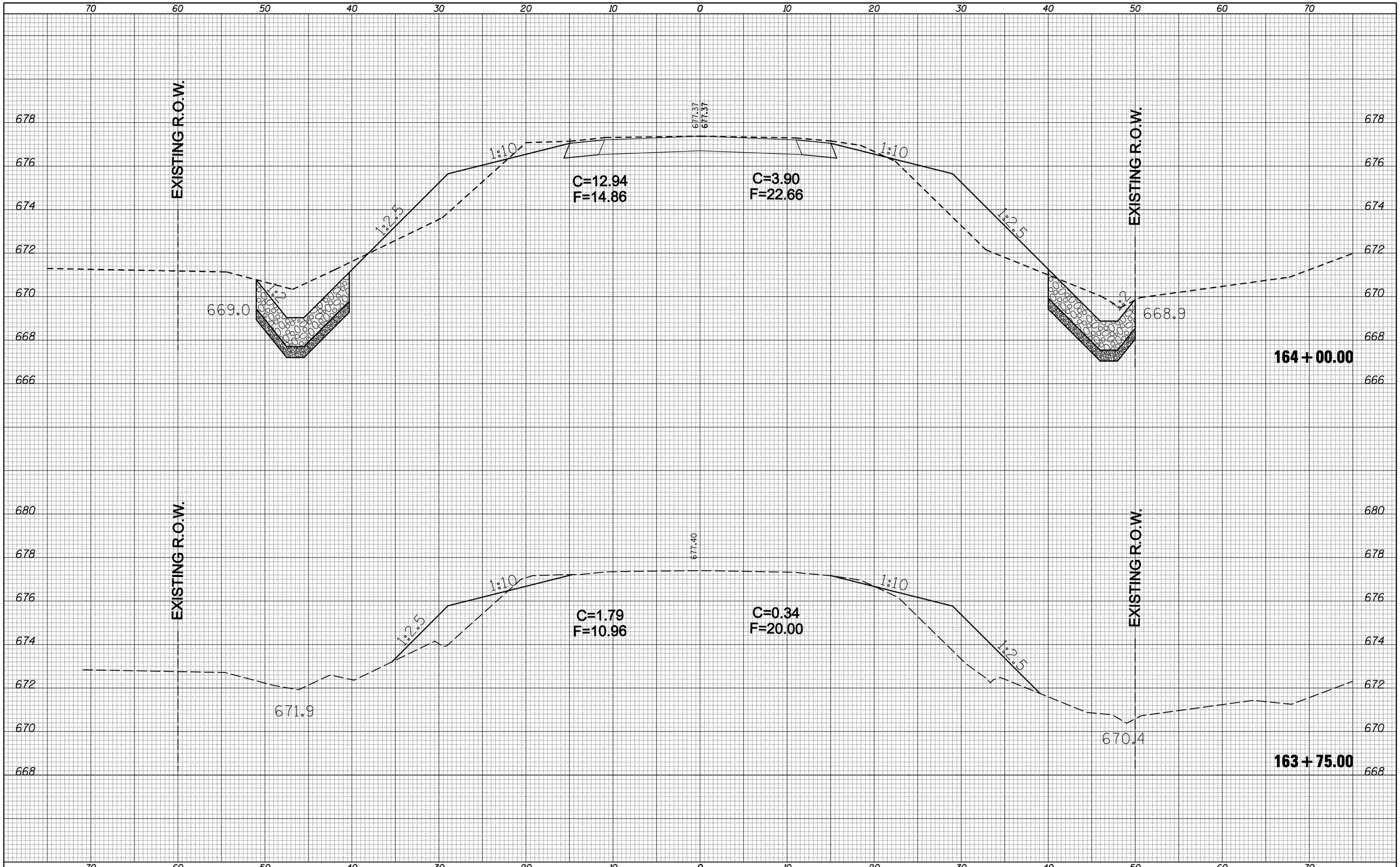
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 163+25.00 TO STA. 163+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	54
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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



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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

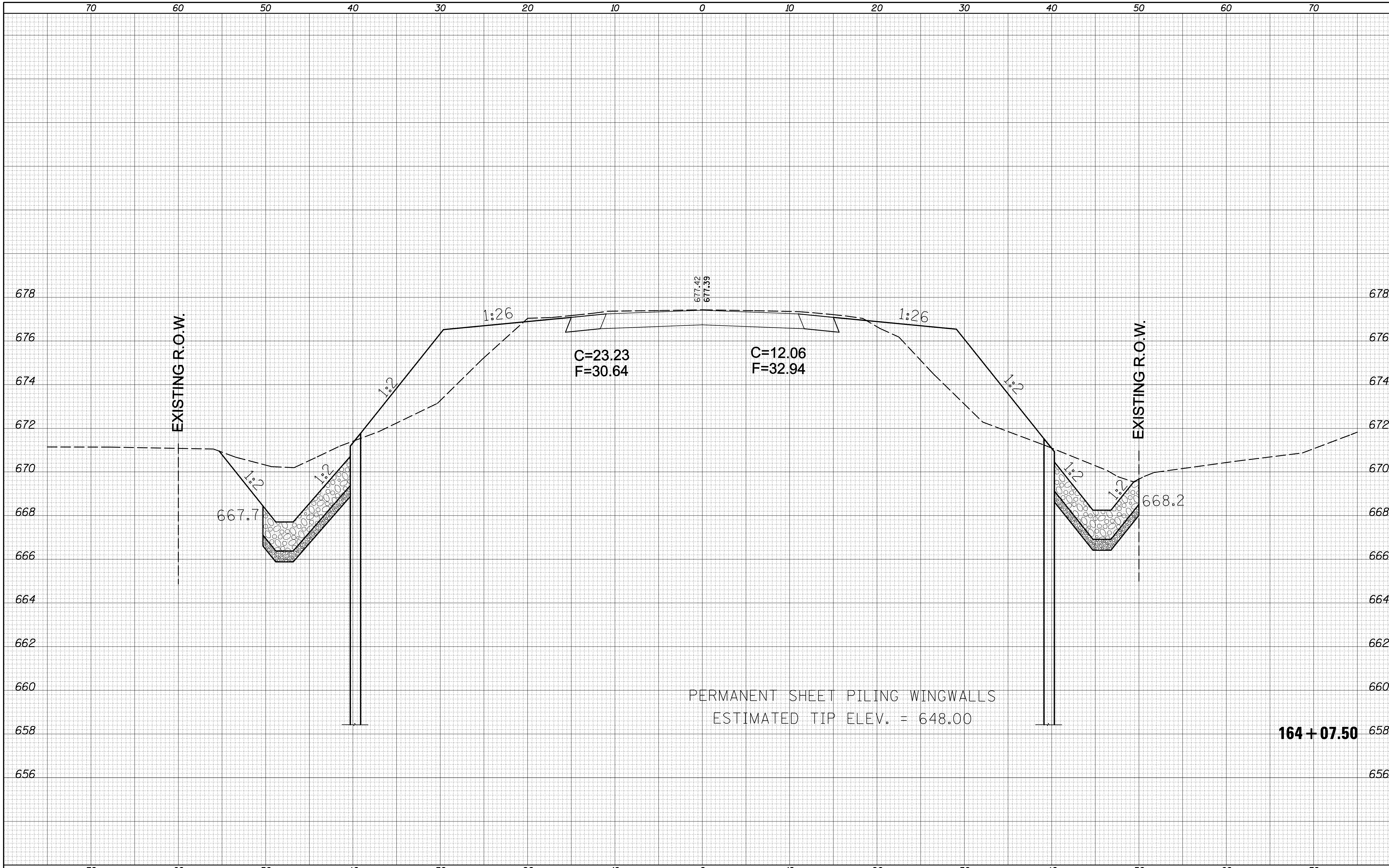
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 163+75.00 TO STA. 164+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	55
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = 10/20/2010	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

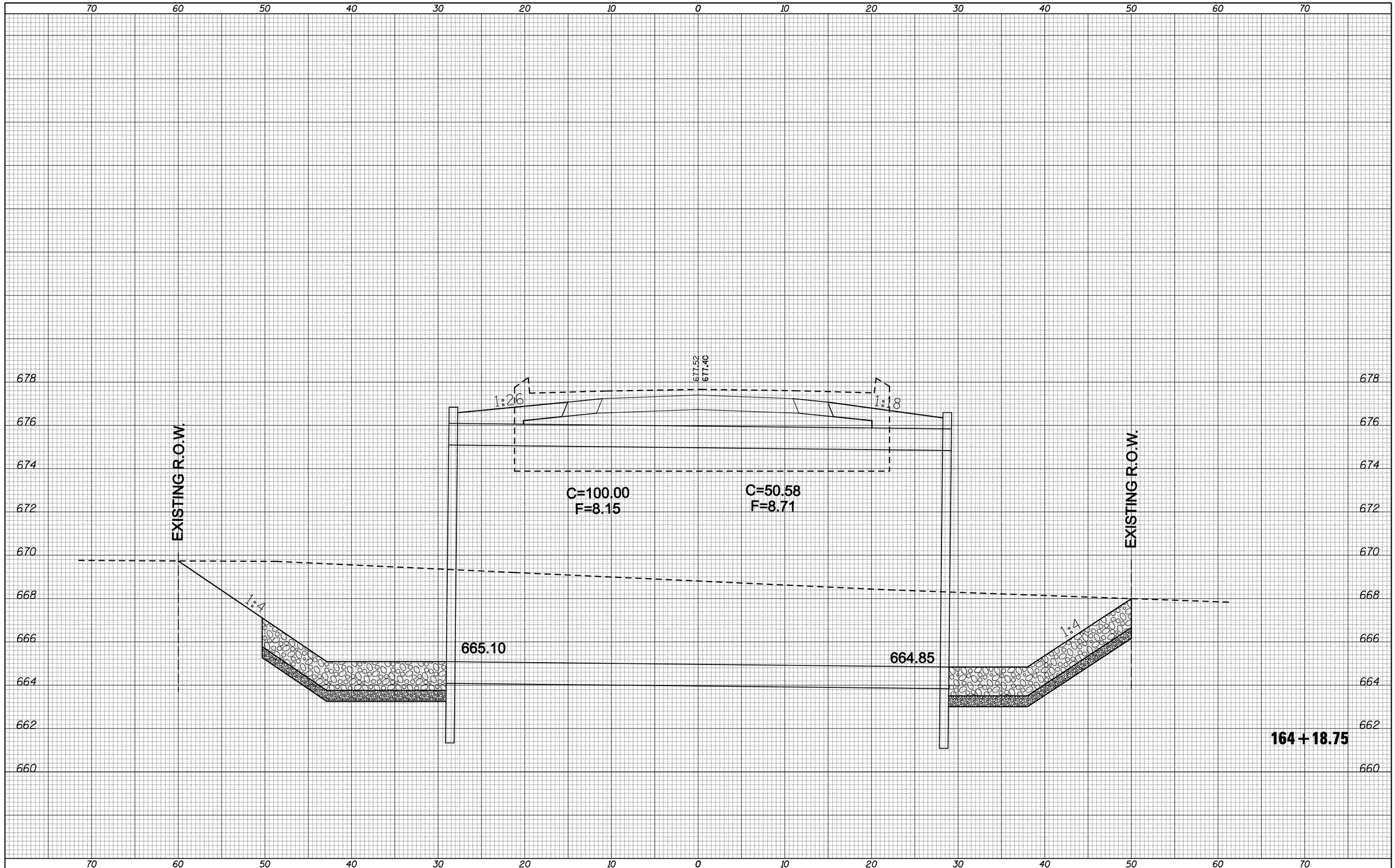
F.A.S. 1531 CROSS SECTIONS

SCALE:	SHEET NO. OF SHEETS	STA. 164+07.50	TO STA. 164+07.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	56
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

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



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 164+18.75 | TO STA. 164+18.75

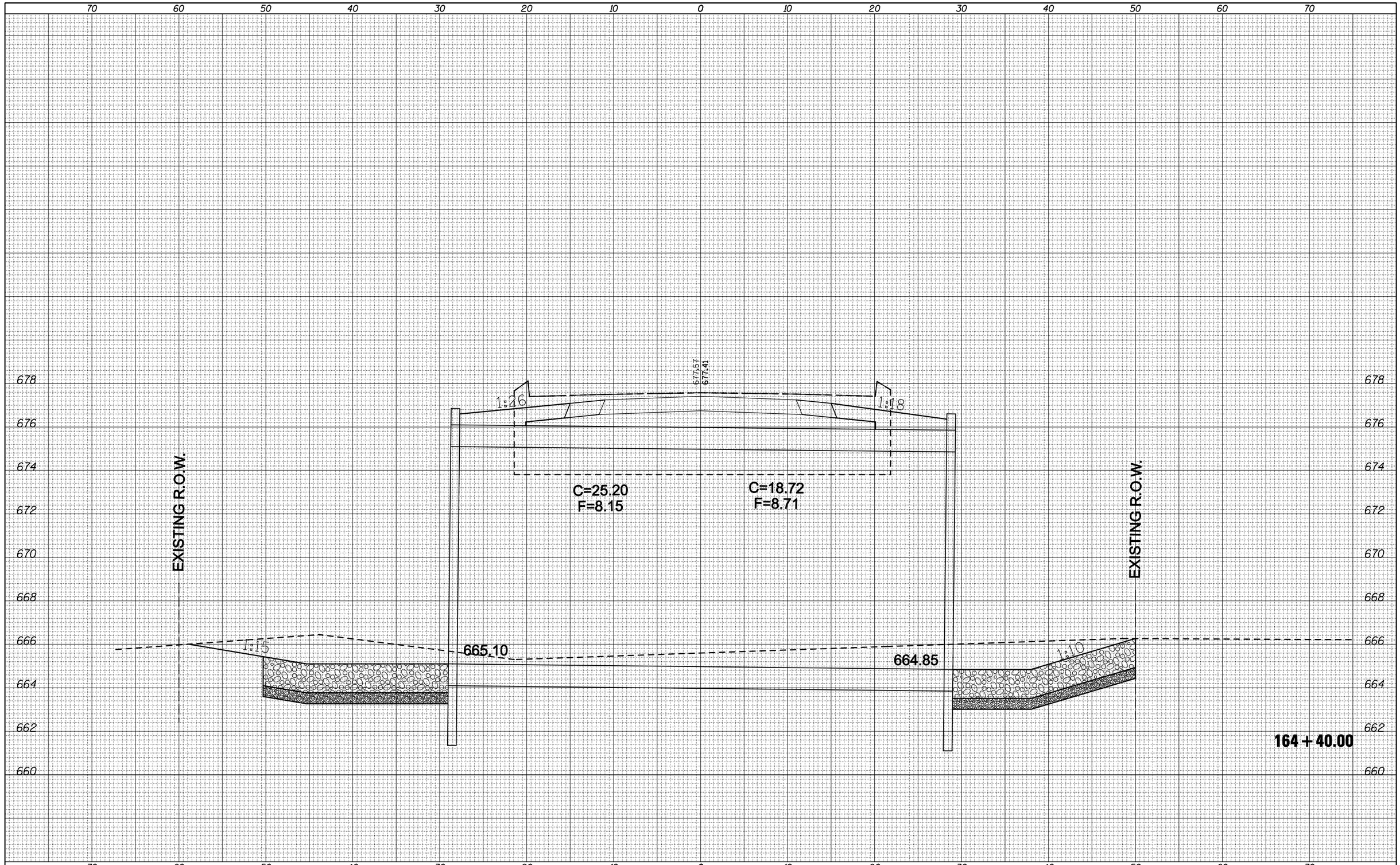
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	57
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

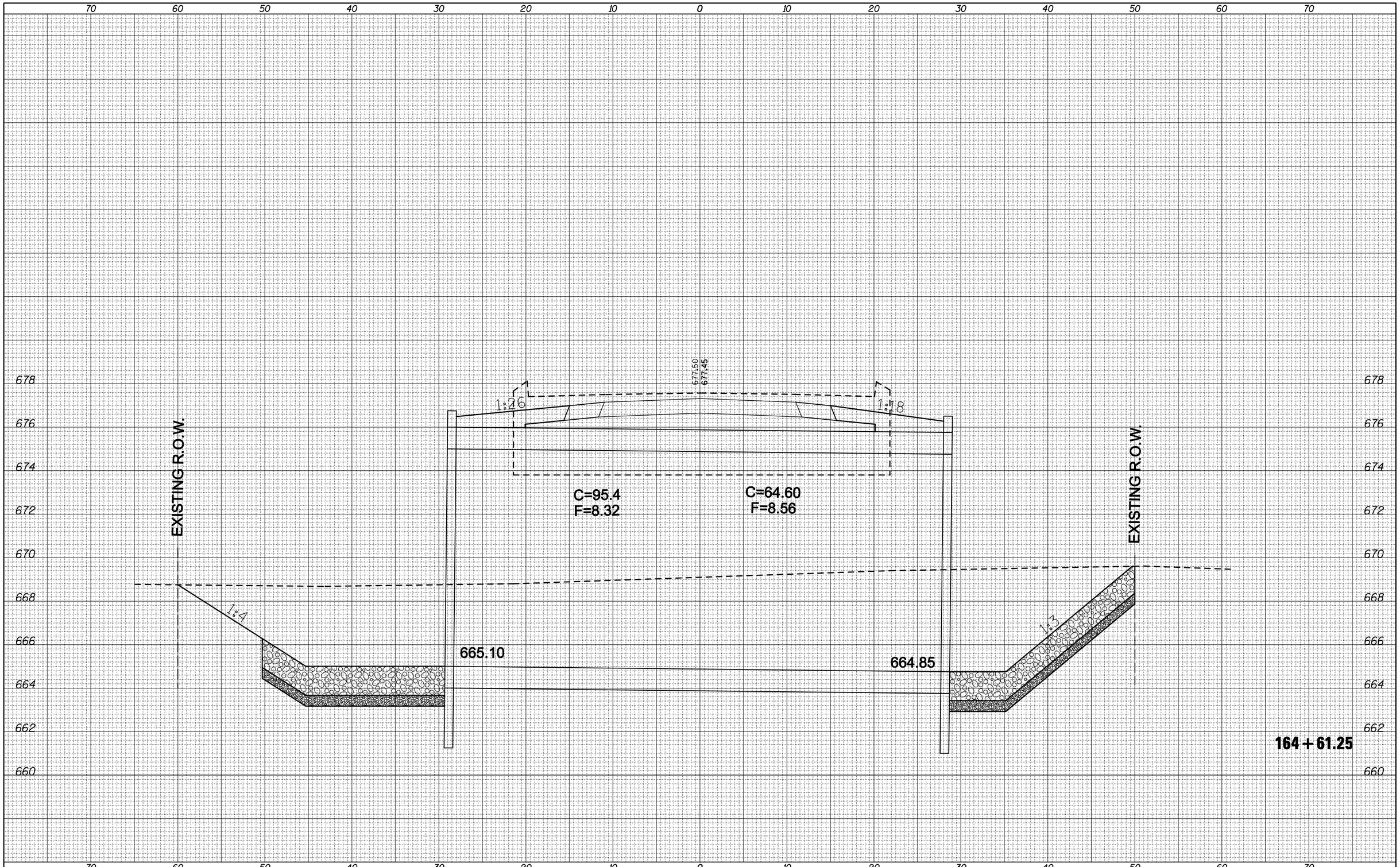
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 164+40.00 TO STA. 164+40.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	58
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 164+61.25 TO STA. 164+61.25

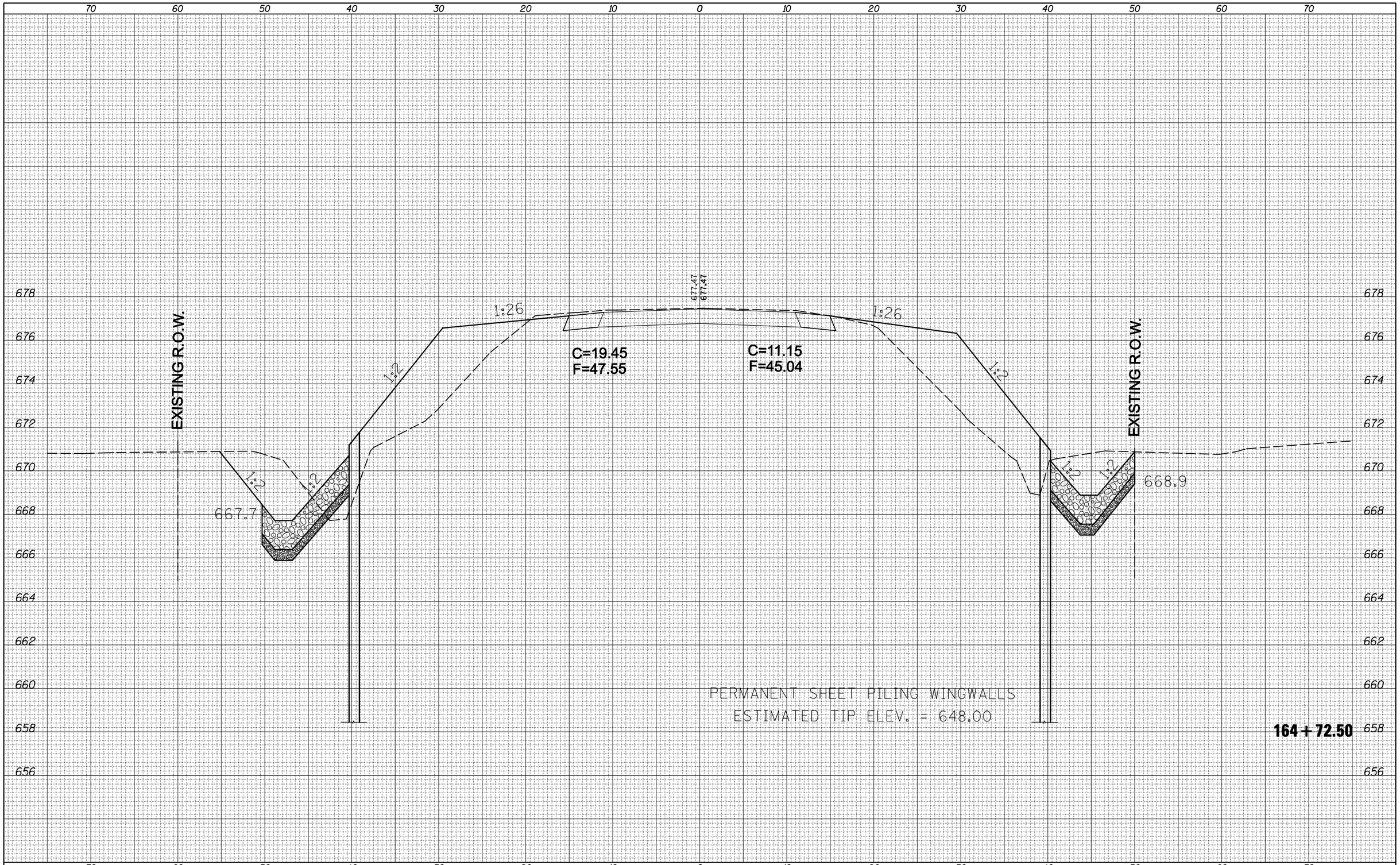
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	59
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

NO.	BY	DATE

ORIGINAL SURVEY	NOTE BOOK	
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

NO.	BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

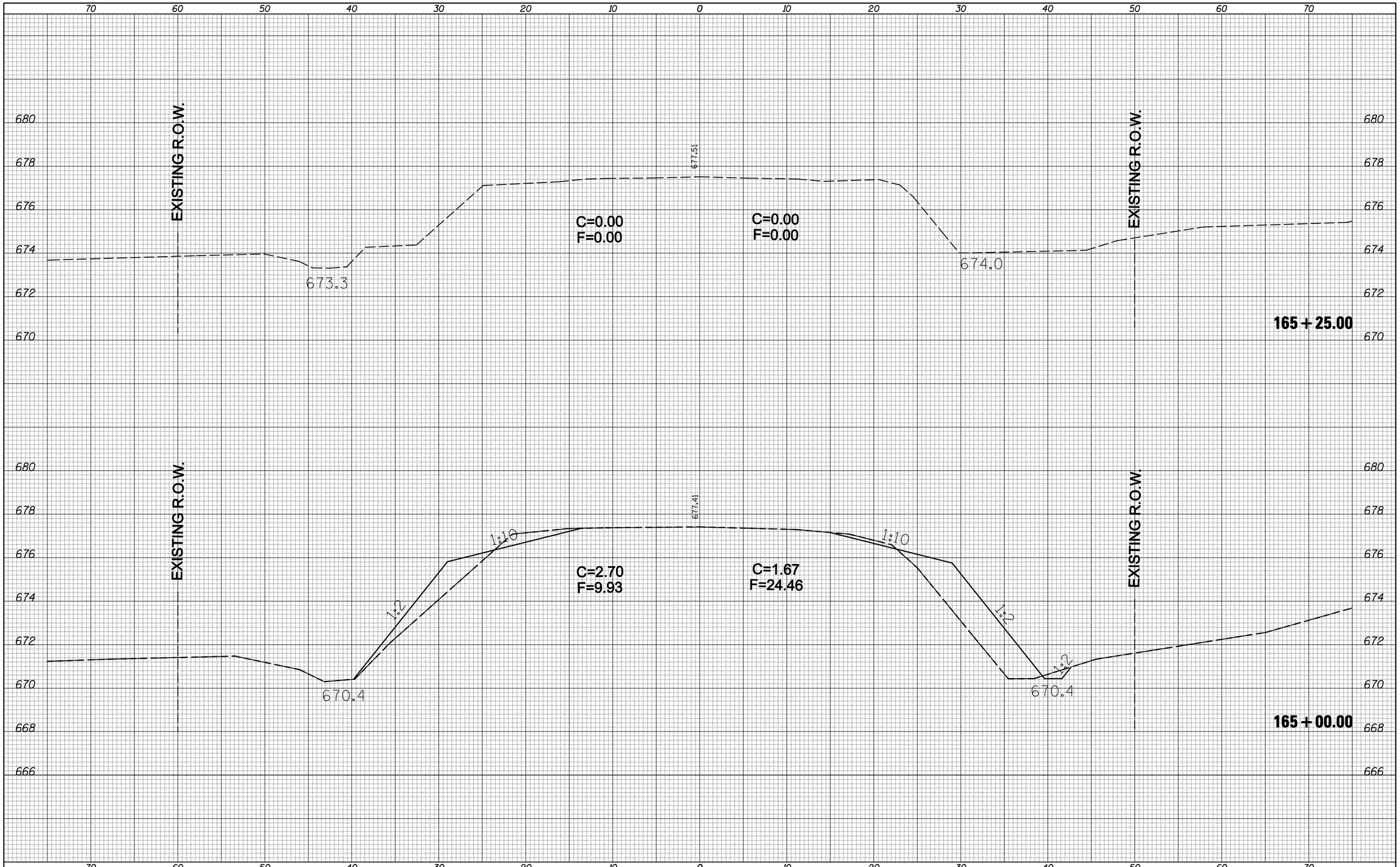
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 164+72.50 TO STA. 164+72.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	60
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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



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

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 165+00.00 TO STA. 165+25.00

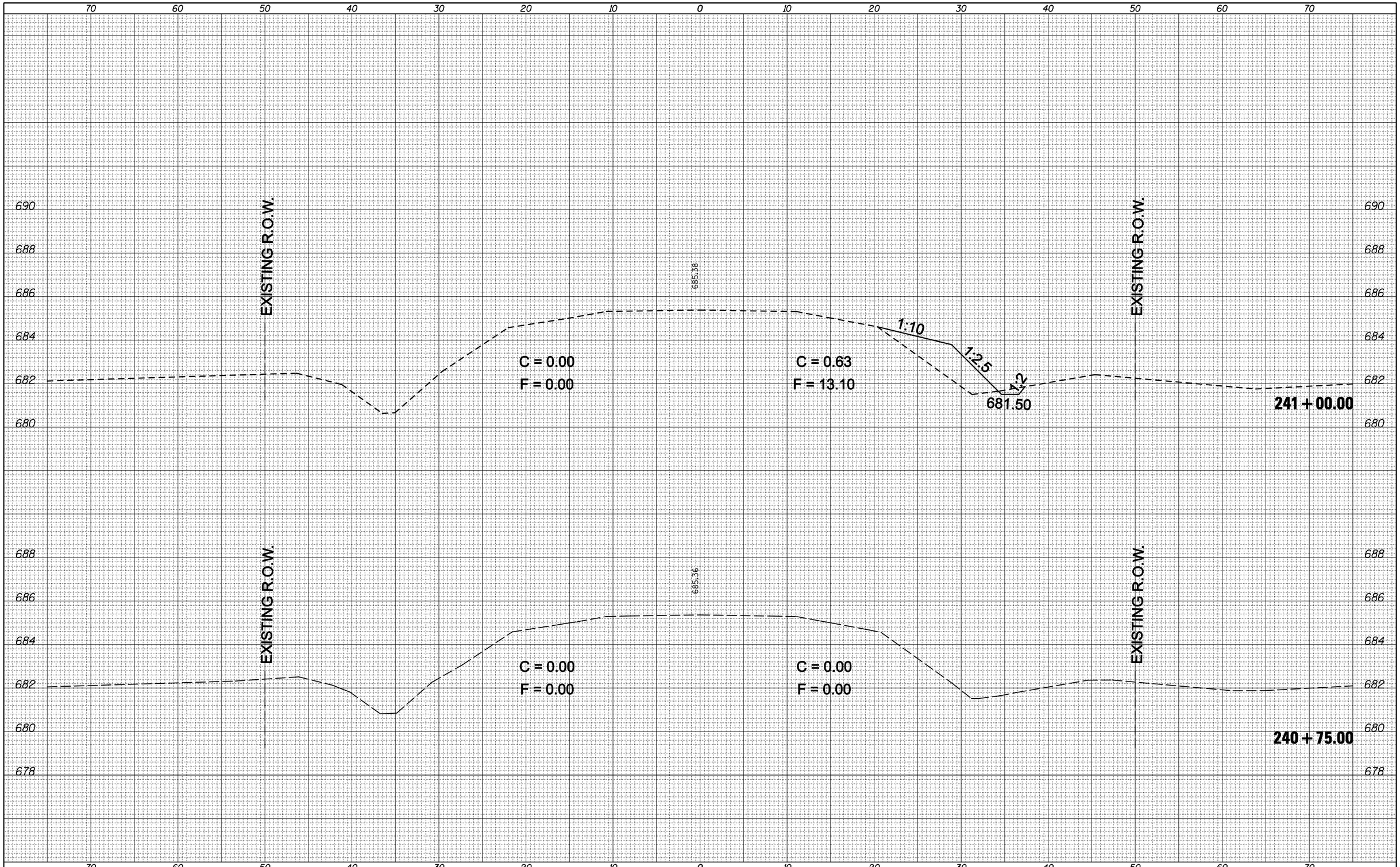
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	61
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 240+75.00 TO STA. 241+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	62
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			

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

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

688
686
684
682
680
678

EXISTING R.O.W.

4.0%

685.40

C = 0.00
F = 0.00

C = 9.06
F = 21.40

1:10

1:2.5

1:2

680.7

EXISTING R.O.W.

241 + 25.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+25.00 TO STA. 241+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	63
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

690 688 686 684 682 680 678 676 674 672 670 668 666

EXISTING R.O.W.

680.1

1:2

1:10

685.38
685.38

C = 33.64
F = 11.76

C = 25.07
F = 32.30

1:10

1:2

1:2

EXISTING R.O.W.

679.5

PERMANENT SHEET PILING WINGWALLS
ESTIMATED TIP ELEV. = 657.00

241 + 46.50

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

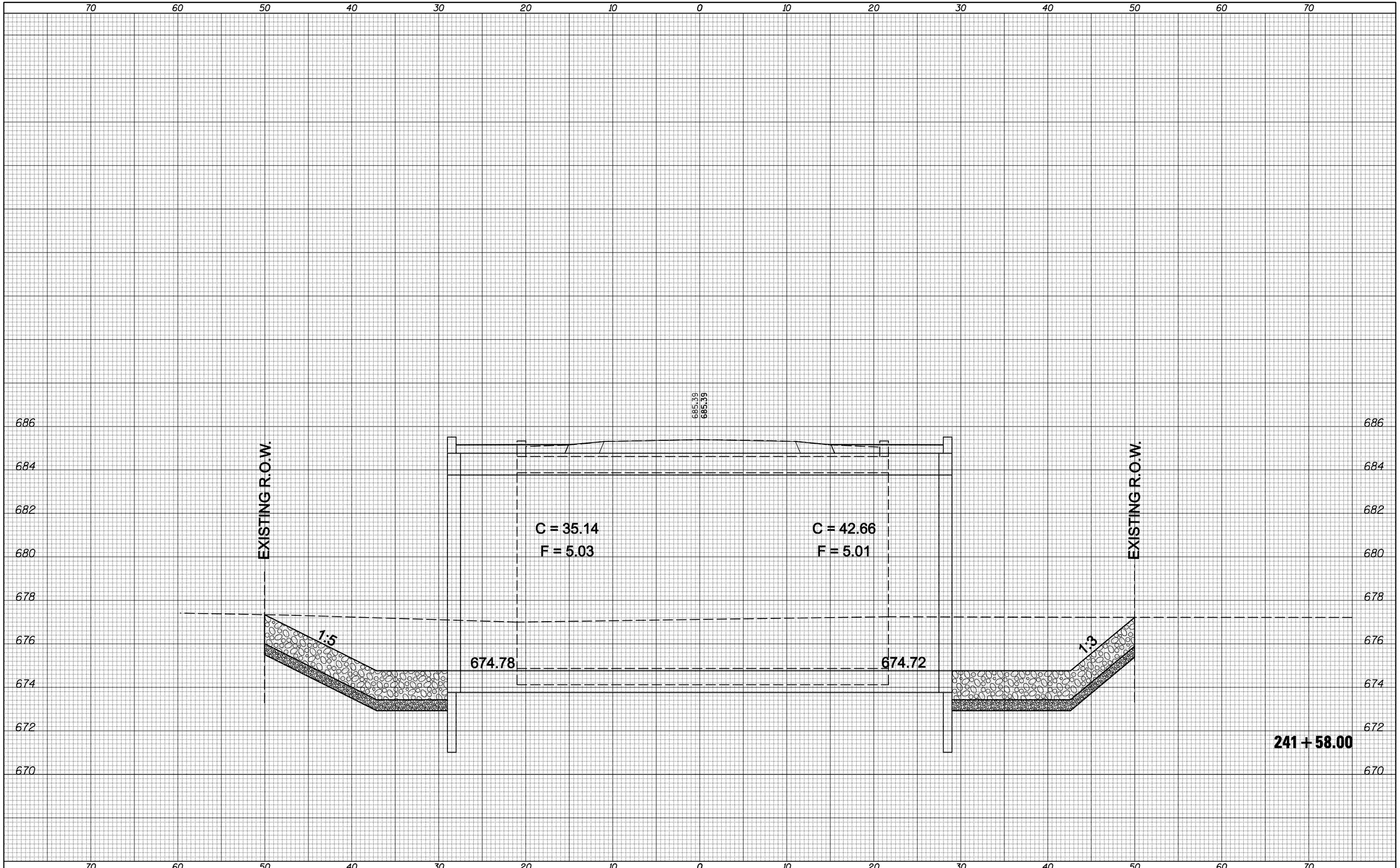
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+46.50 TO STA. 241+46.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	64
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

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



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

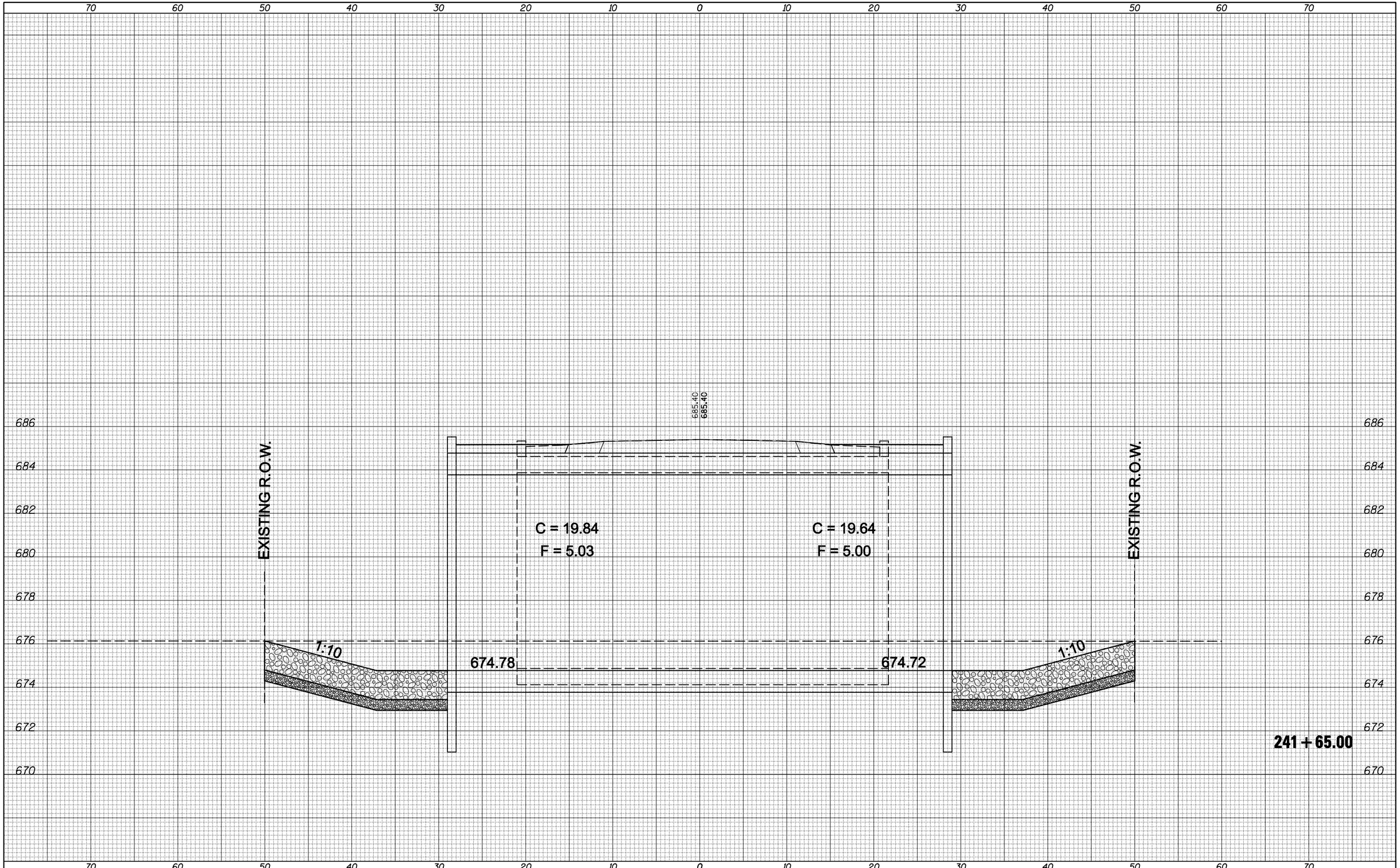
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+58.00 | TO STA. 241+58.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	65
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

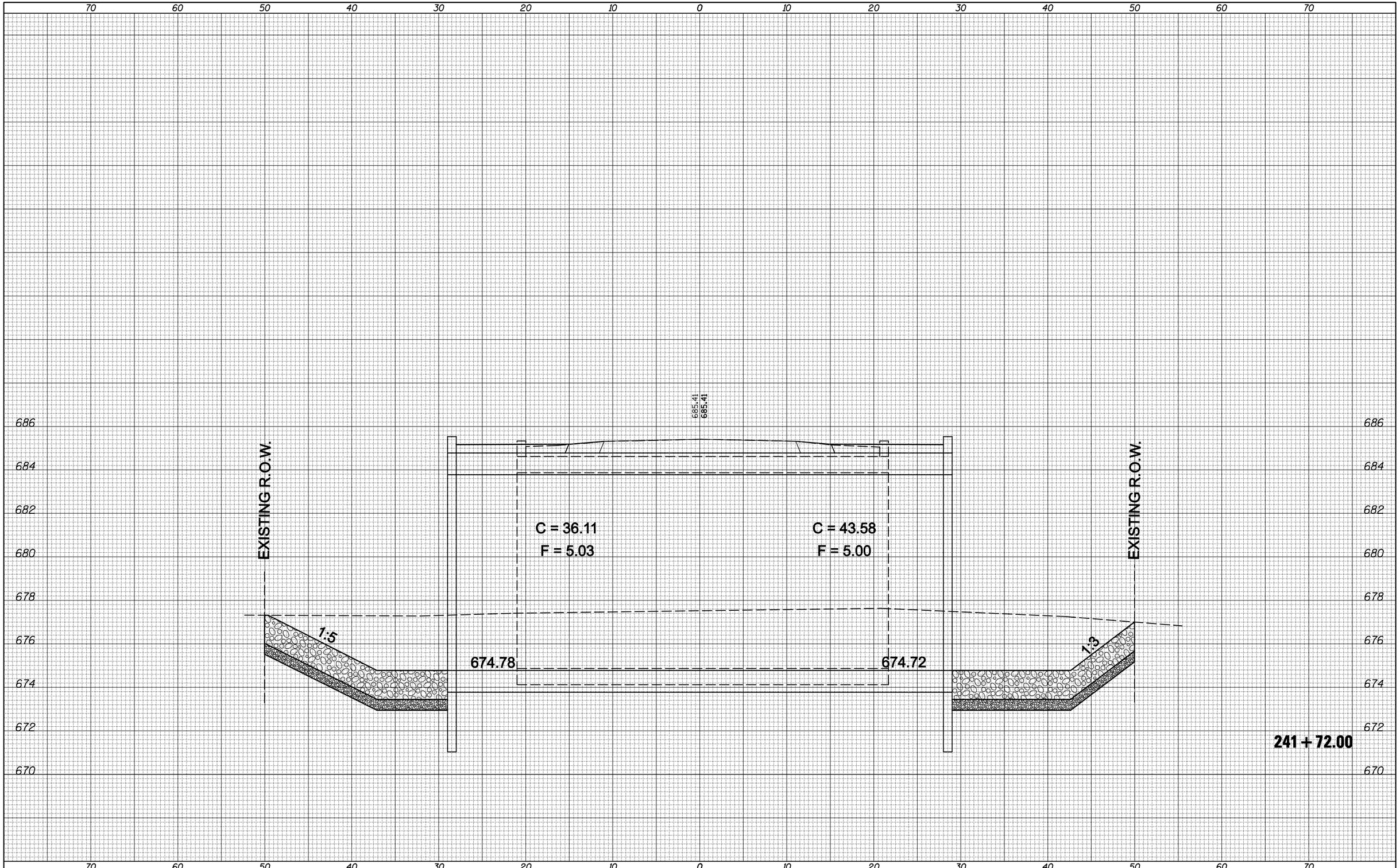
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+65.00 TO STA. 241+65.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	66
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+72.00 TO STA. 241+72.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	67
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

690 688 686 684 682 680 678 676 674 672 670 668 666

EXISTING R.O.W.

EXISTING R.O.W.

685.42
685.42

1:10

1:10

1:2

1:2

1:2

1:2

680.1

679.5

C = 25.03
F = 16.90

C = 24.98
F = 29.05

PERMANENT SHEET PILING WINGWALLS
ESTIMATED TIP ELEV. = 657.00

241 + 84.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 241+84.00 | TO STA. 241+84.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	68
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

688 686 684 682 680 678

EXISTING R.O.W.

685.46

C = 0.00
F = 0.00

C = 4.86
F = 10.16

1:10 1:2.5 1:2

681.9

EXISTING R.O.W.

242 + 25.00

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

690 688 686 684 682 680 678

EXISTING R.O.W.

685.46
685.46

1.0%

C = 0.00
F = 0.00

C = 24.46
F = 33.27

1:10 1:2.5 1:2

680.50

EXISTING R.O.W.

242 + 00.00

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 242+00.00 TO STA. 242+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	69
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

688
686
684
682
680
678

EXISTING R.O.W.

685.46

C = 0.00
F = 0.00

C = 0.00
F = 0.00

EXISTING R.O.W.

242 + 50.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

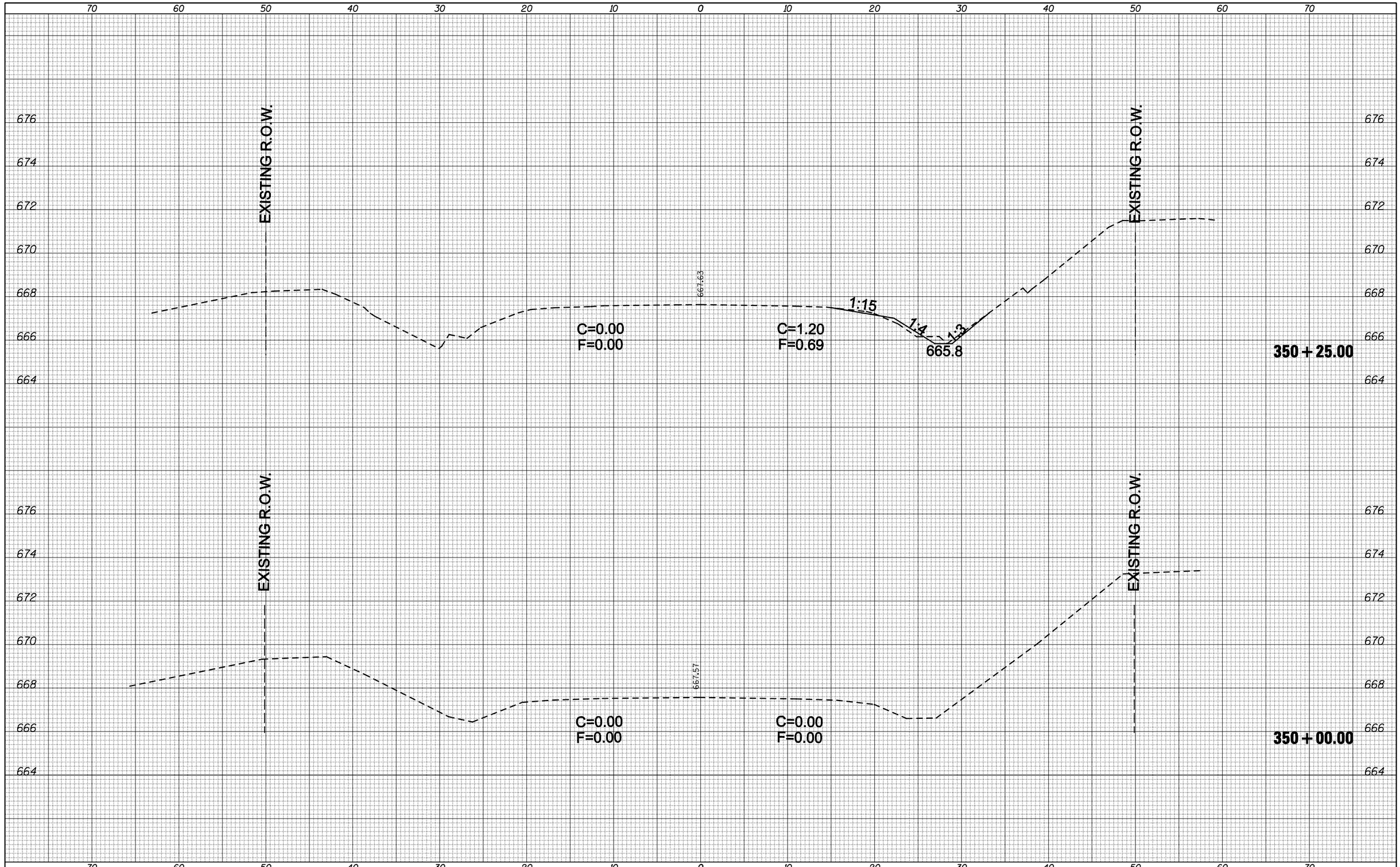
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 242+50.00 TO STA. 242+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	70
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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



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

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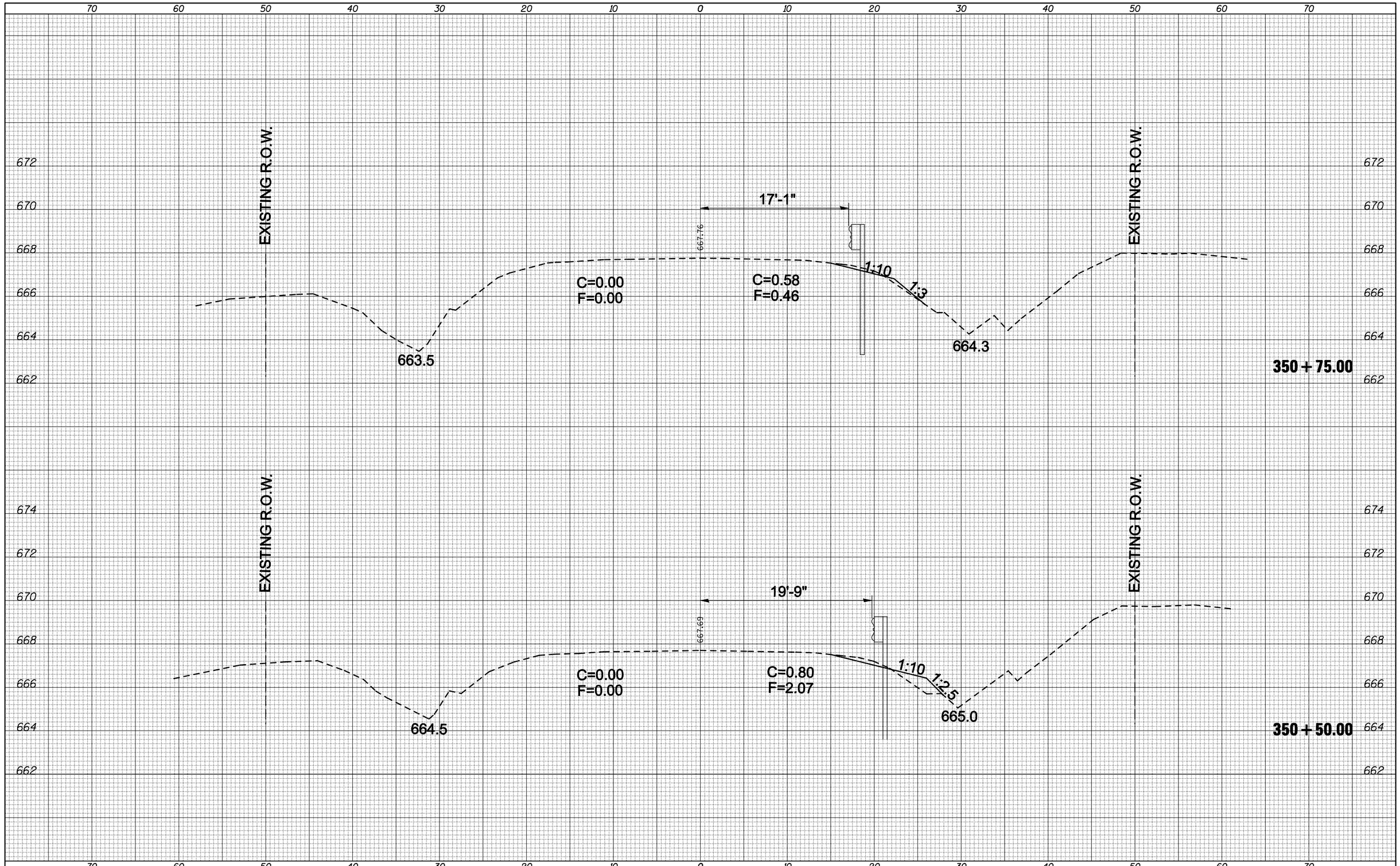
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 350+00.00 TO STA. 350+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	71
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NO.	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NO.	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS
AREAS CHECKED

FILE NAME = c:\pw_work\pwidot\coombessf\d0135397\D500705-sht-xs_0018mainline.dgn	USER NAME = coombessf	DESIGNED -	REVISED -
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	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2010	DATE -	REVISED -

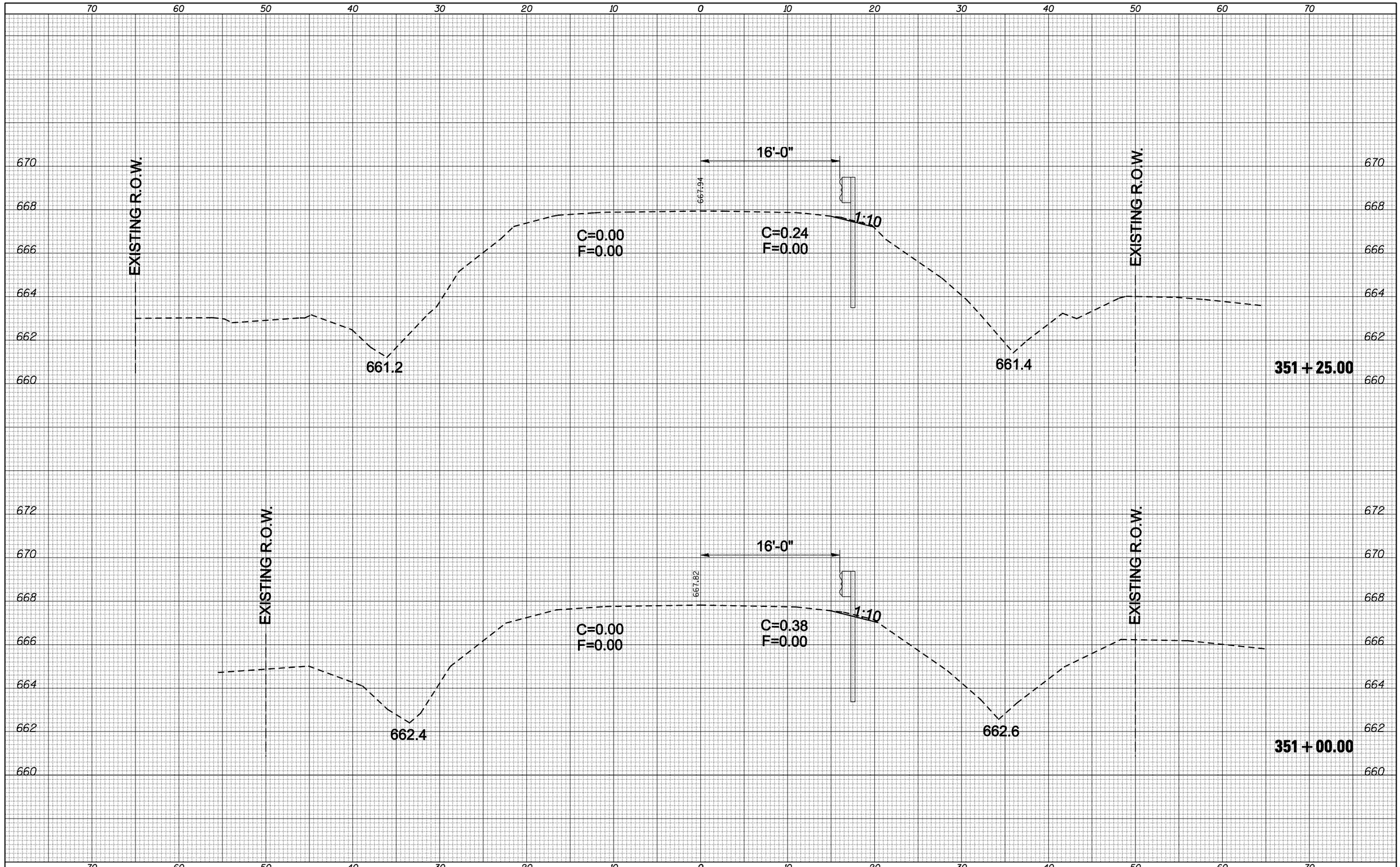
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 350+50.00 TO STA. 350+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	72
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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



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

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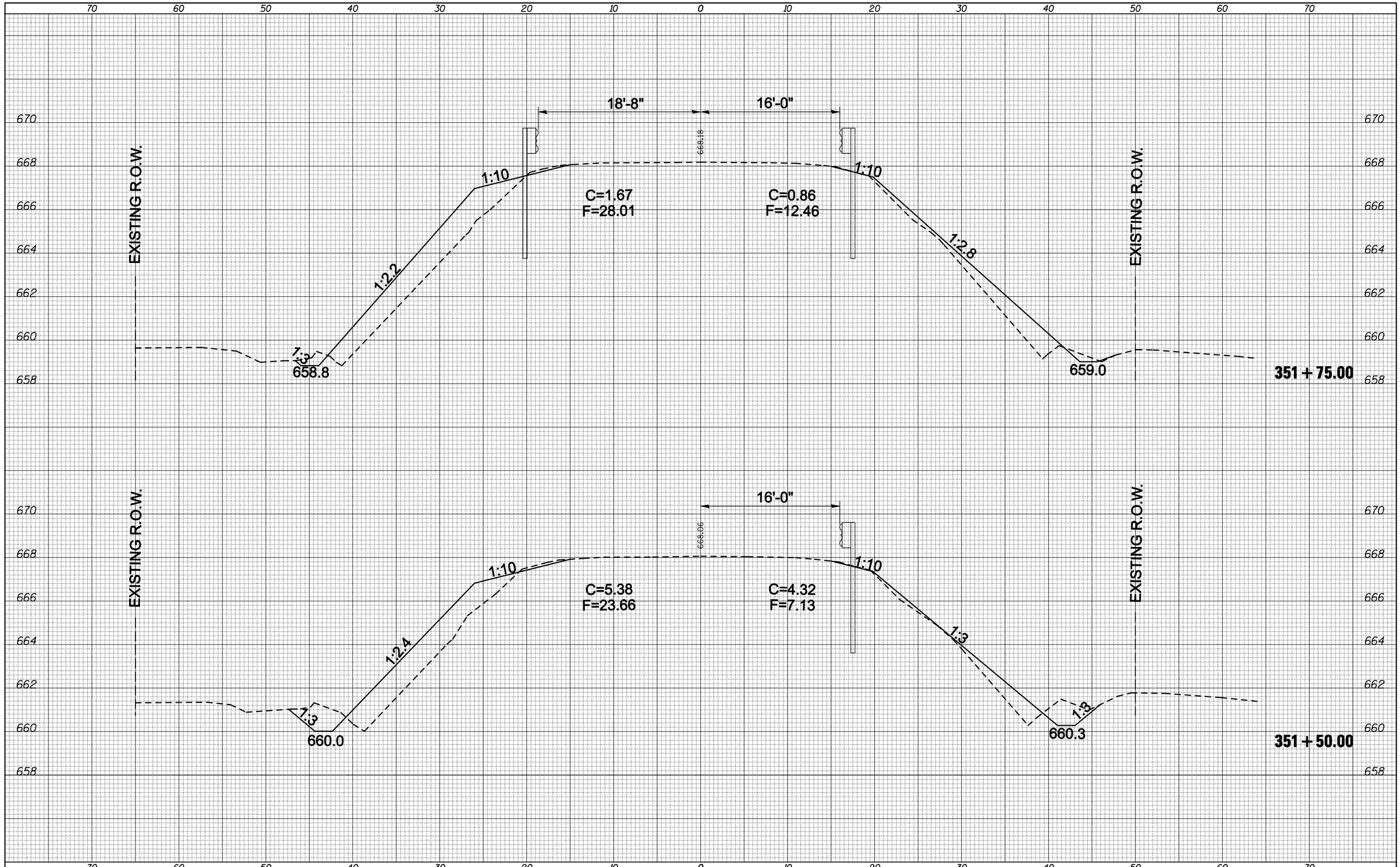
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 351+00.00 TO STA. 351+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	73
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



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

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

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

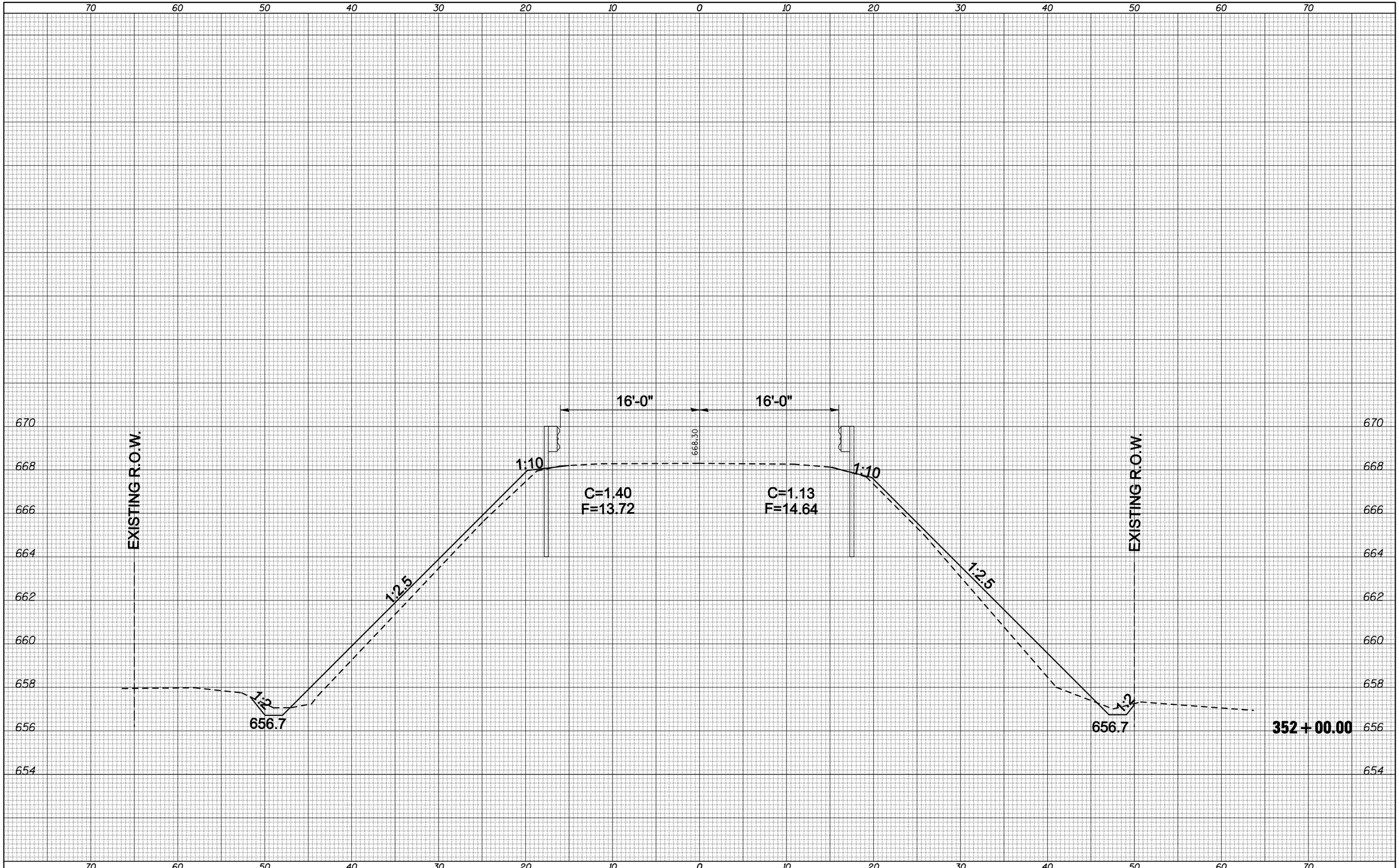
F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 351+50.00 TO STA. 351+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	74
		CONTRACT NO. 70458		
		ILLINOIS	FED. AID PROJECT	

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

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



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+00.00 TO STA. 352+00.00

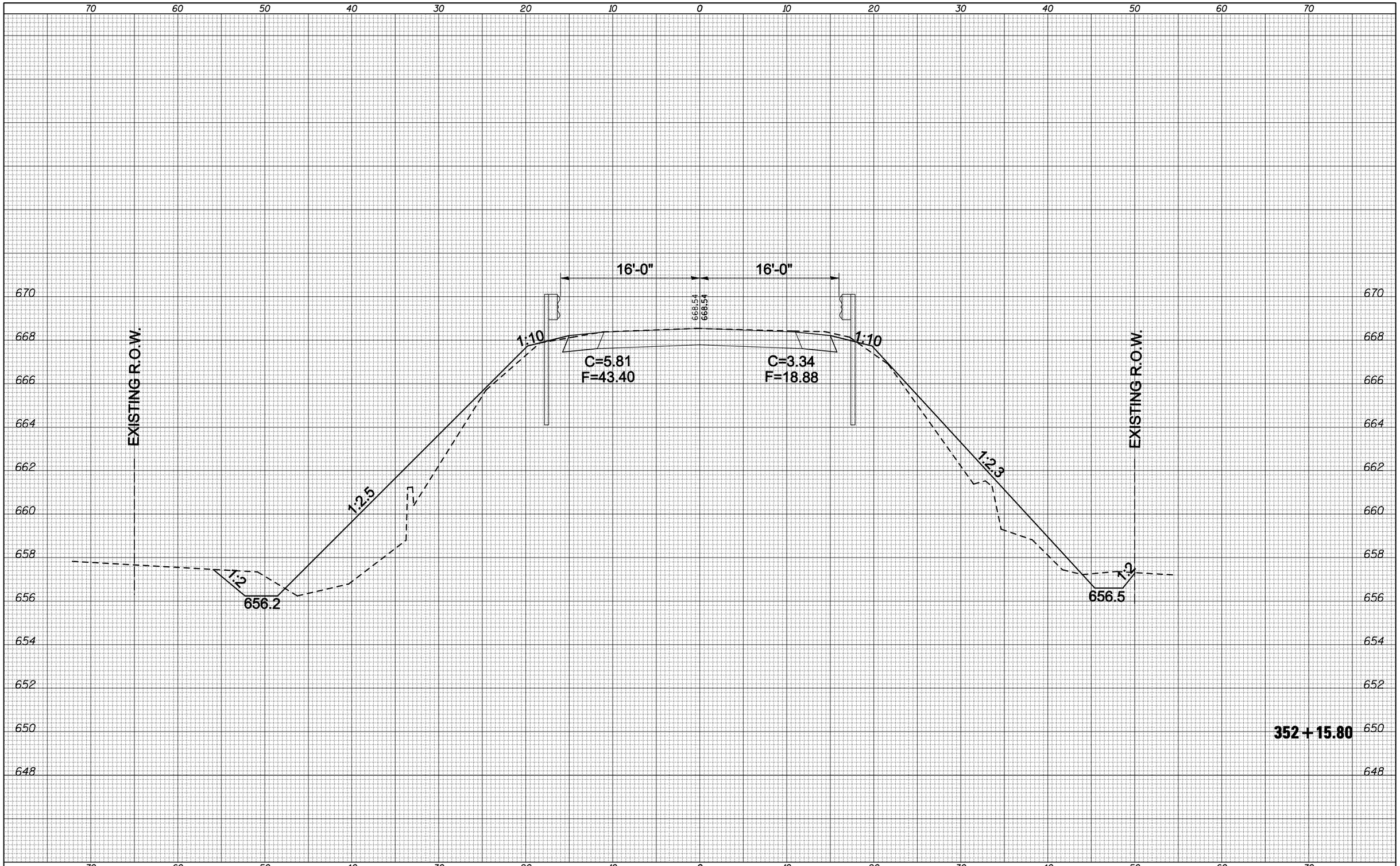
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	75
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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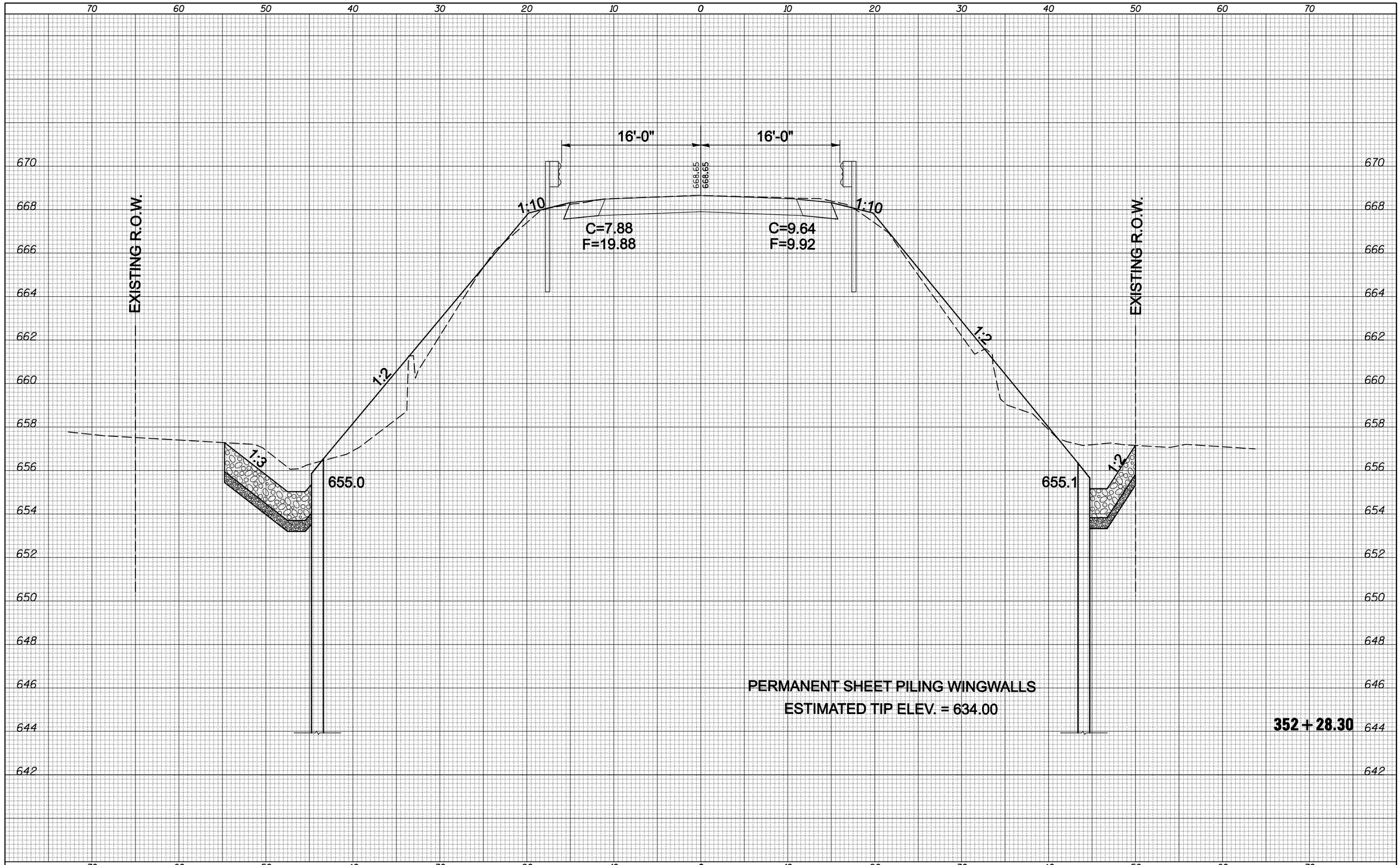
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+15.80 TO STA. 352+15.80

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	76
		CONTRACT NO. 70458		
	ILLINOIS FED. AID PROJECT			



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

BY	DATE

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

BY	DATE

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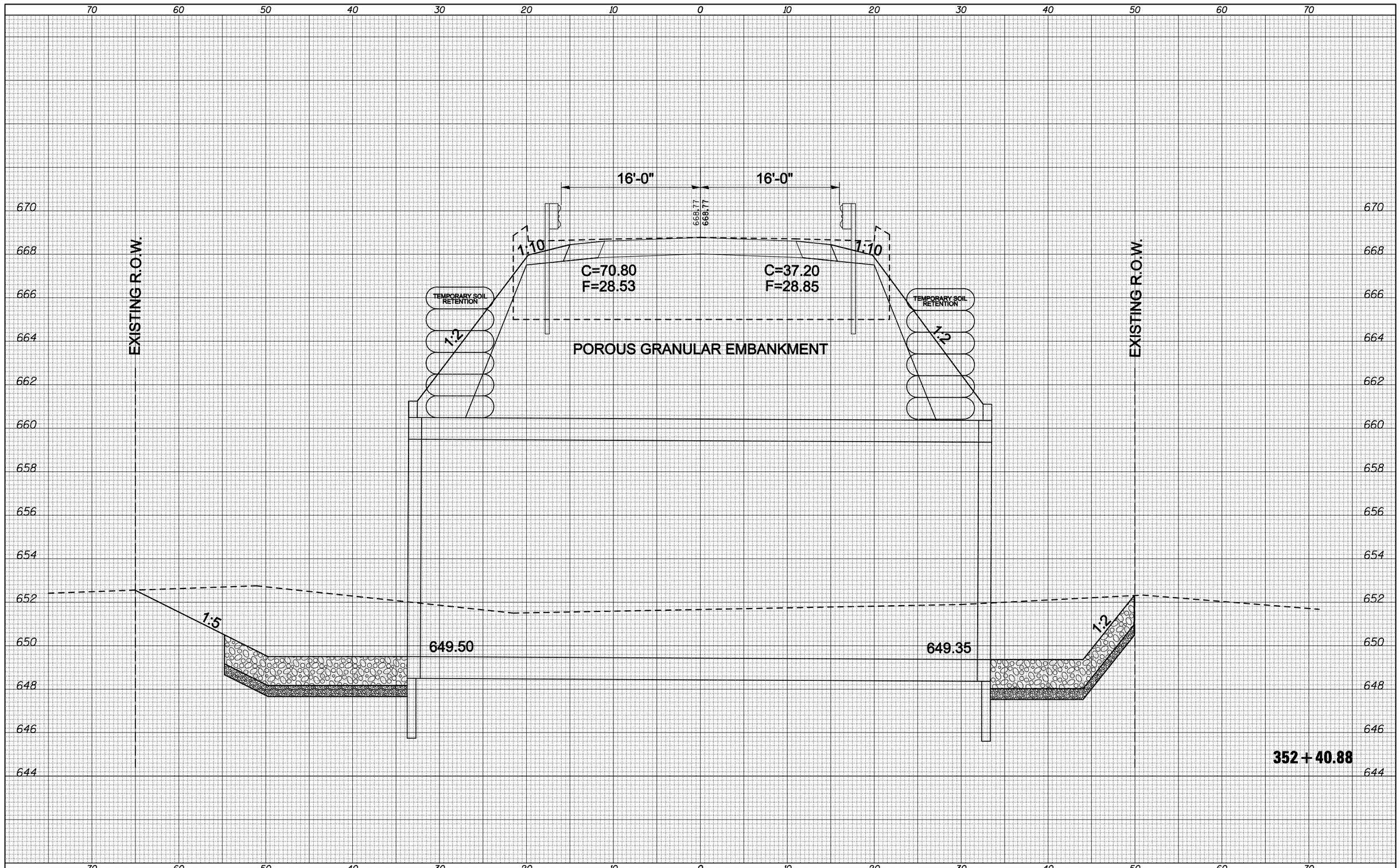
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+28.30 TO STA. 352+28.30

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	77
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+40.88 TO STA. 352+40.88

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	78
		CONTRACT NO. 70458		
		ILLINOIS	FED. AID PROJECT	

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

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

672 670 668 666 664 662 660 658 656 654 652 650 648 646 644

EXISTING R.O.W.

16'-0" 16'-0"

668.30 668.30

1:10 1:10

C=7.25
F=28.52

C=14.20
F=28.88

TEMPORARY SOIL RETENTION

TEMPORARY SOIL RETENTION

1:2 1:2

POROUS GRANULAR EMBANKMENT

1:20

649.50

649.35

1:10

EXISTING R.O.W.

352+55.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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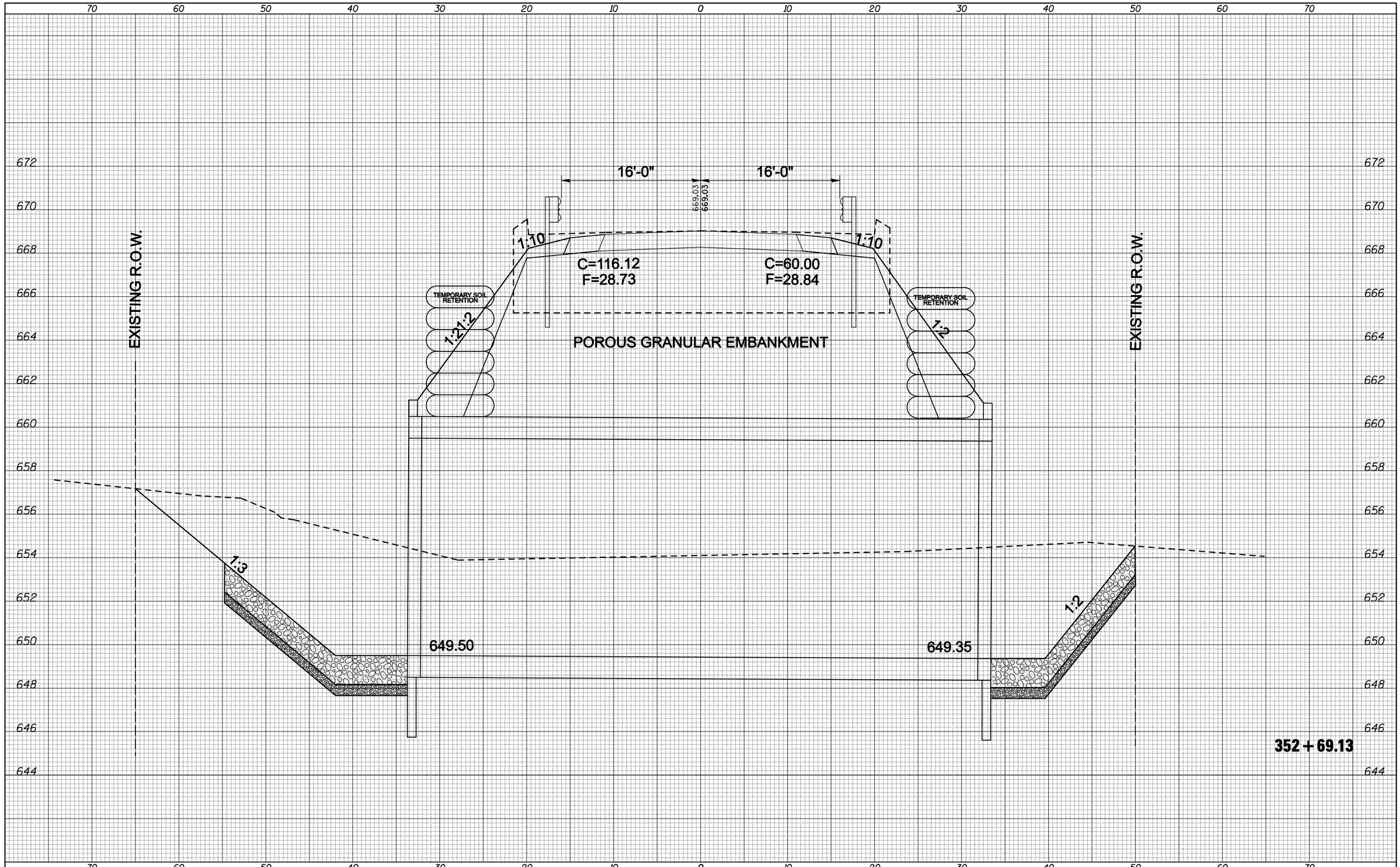
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+55.00 TO STA. 352+55.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	79
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		



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

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

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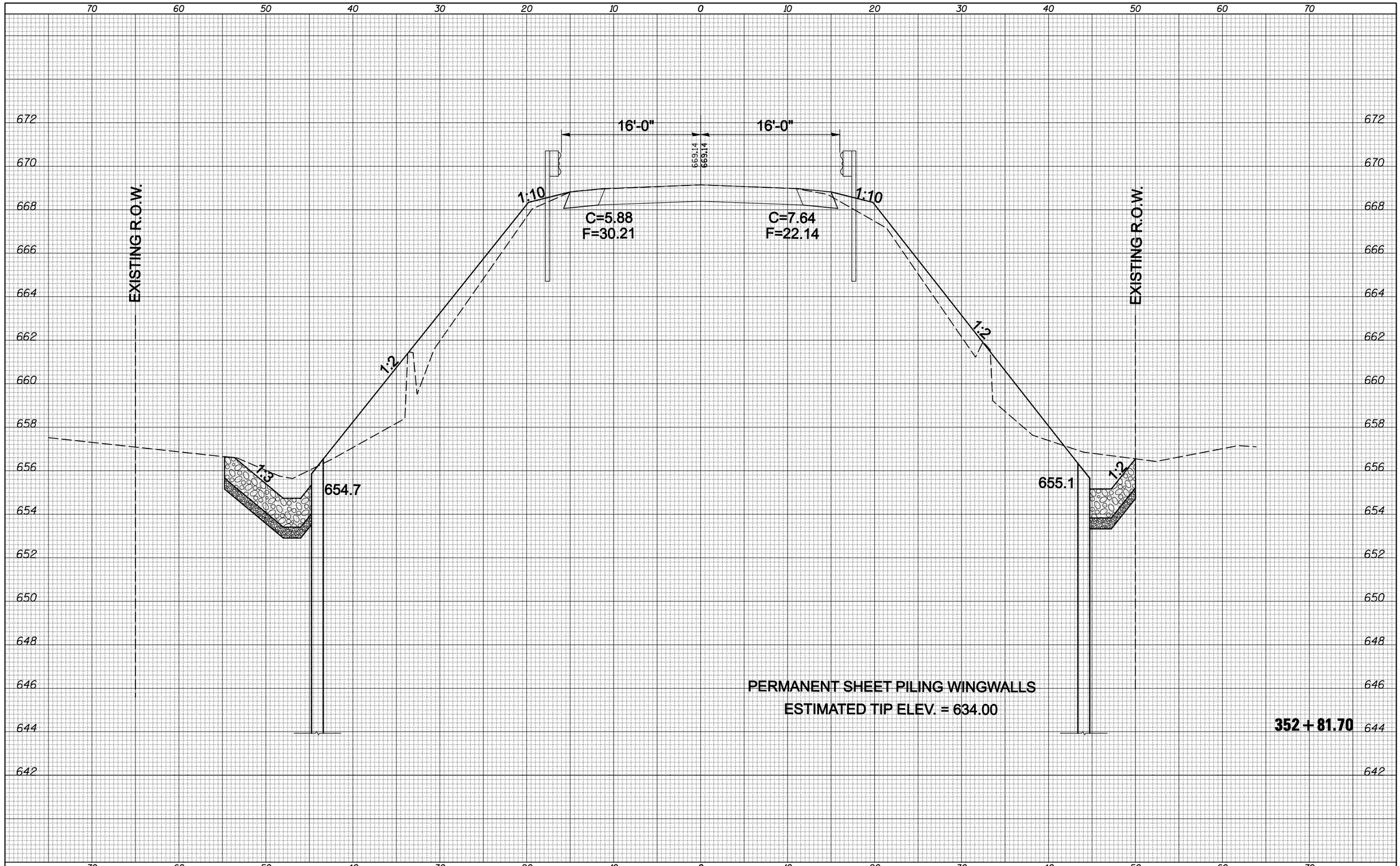
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+69.13 TO STA. 352+69.13

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	80
		CONTRACT NO. 70458		
		ILLINOIS	FED. AID PROJECT	



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

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

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 352+81.70 TO STA. 352+81.70

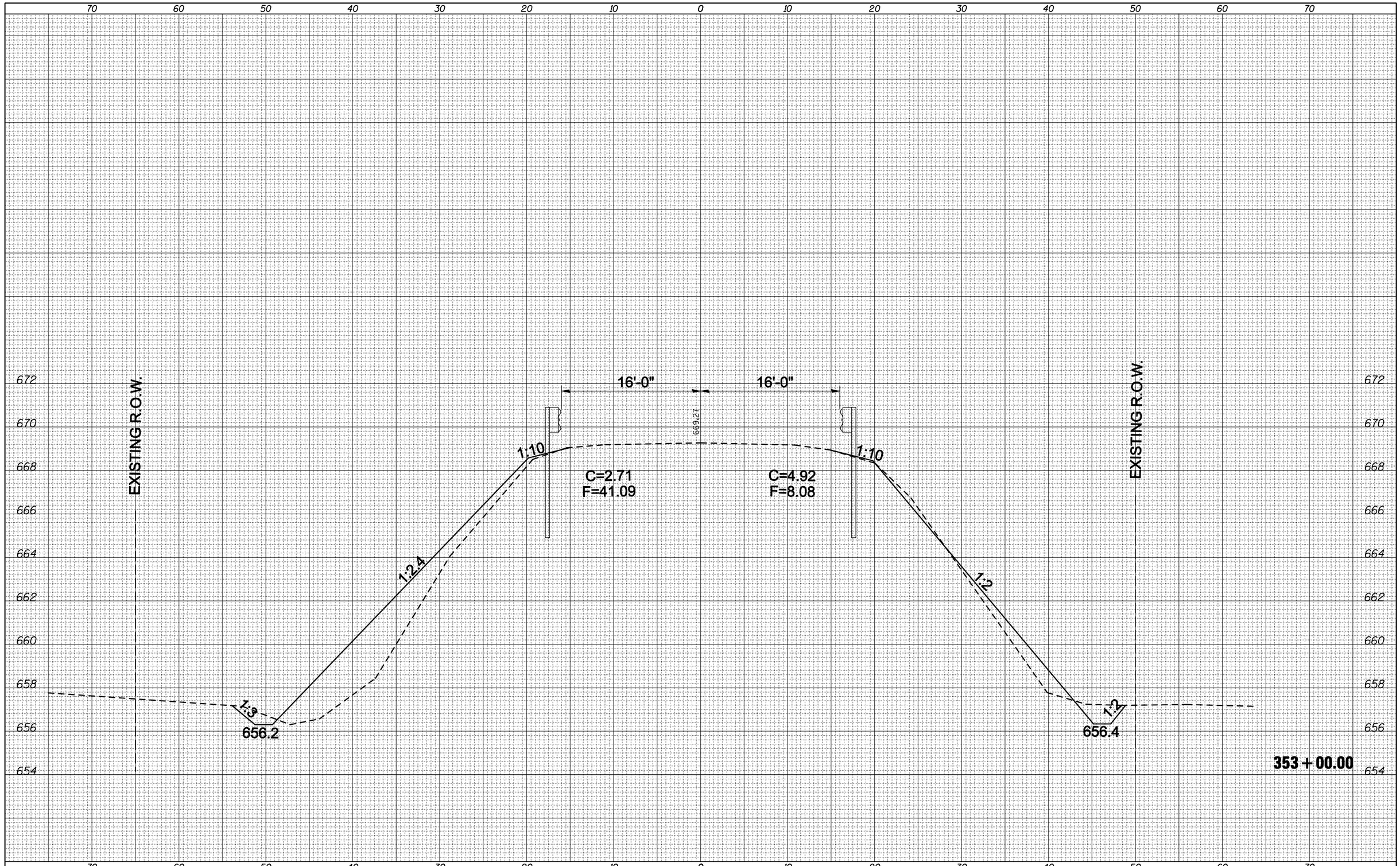
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	81
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 353+00.00 TO STA. 353+00.00

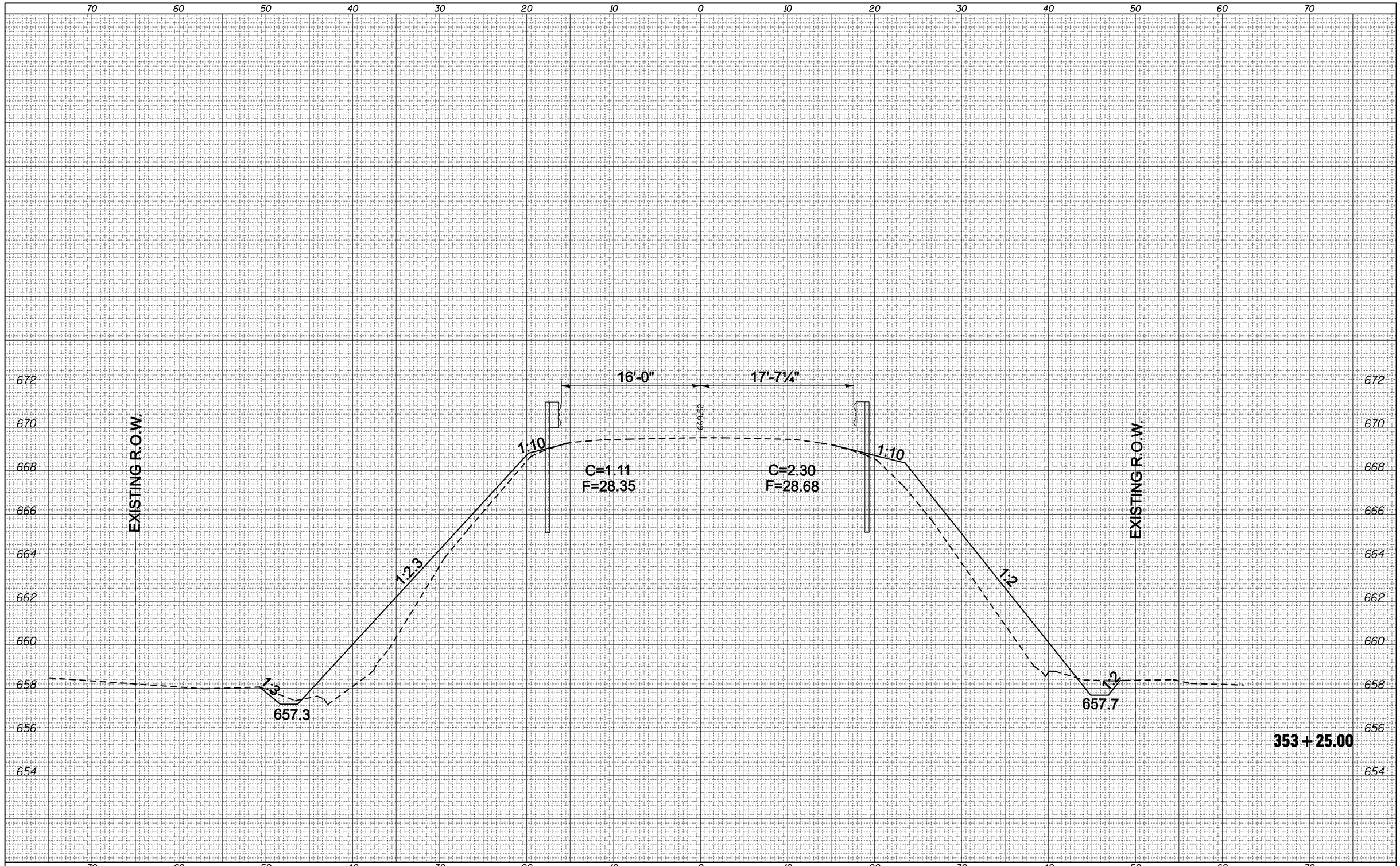
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	82
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 353+25.00 TO STA. 353+25.00

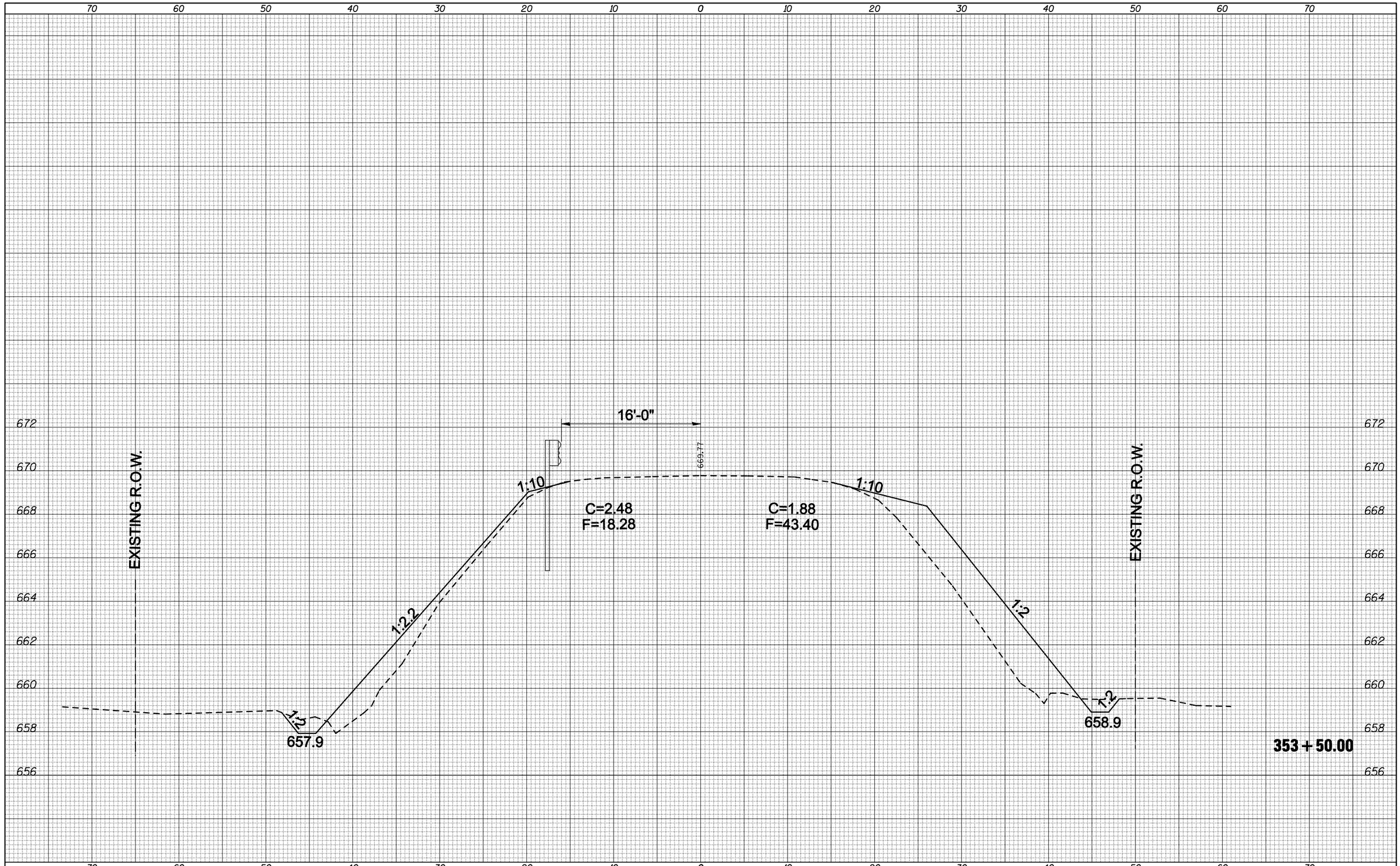
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	83
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

	BY	DATE

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

	BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 353+50.00 TO STA. 353+50.00

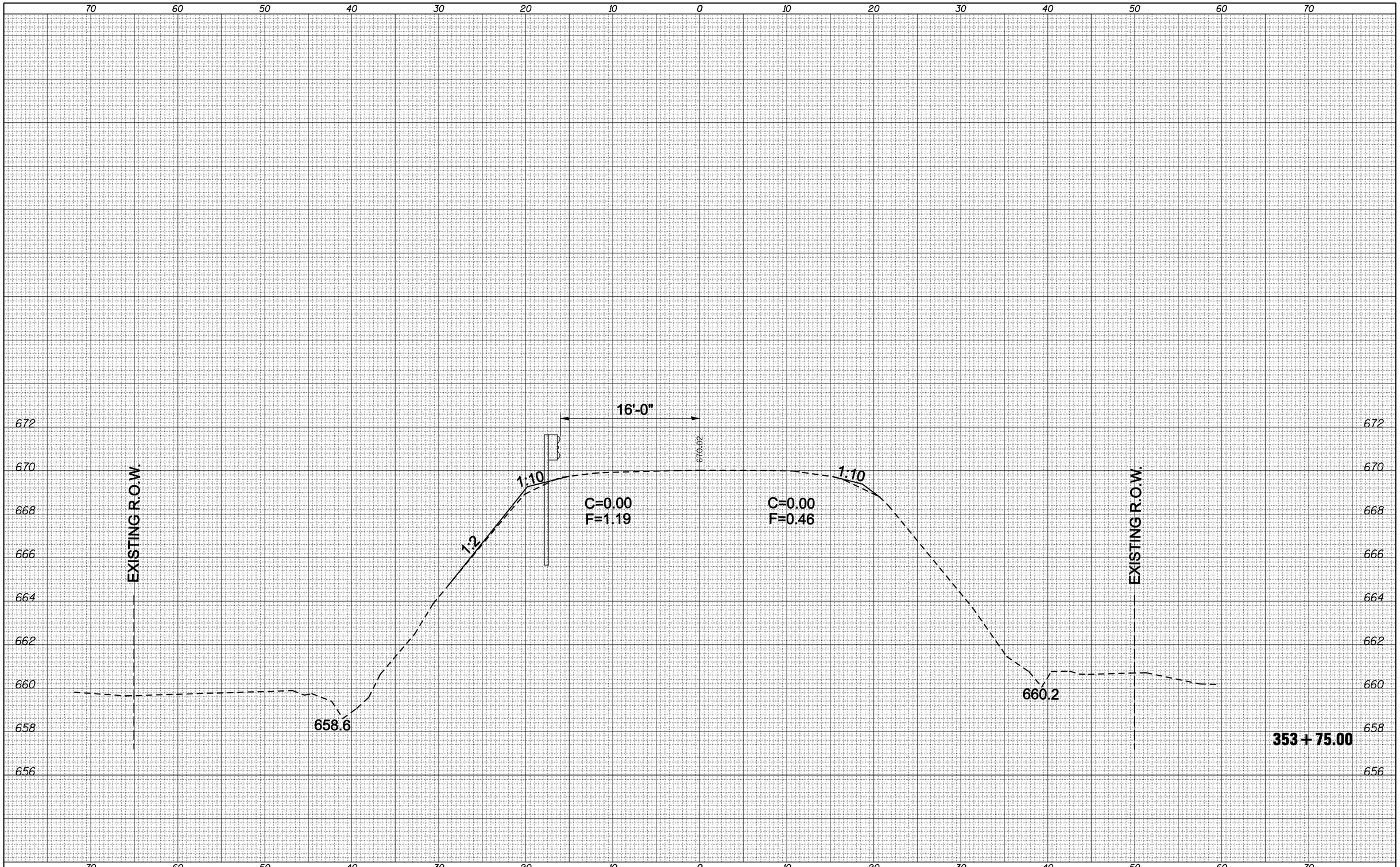
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	84
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 353+75.00 TO STA. 353+75.00

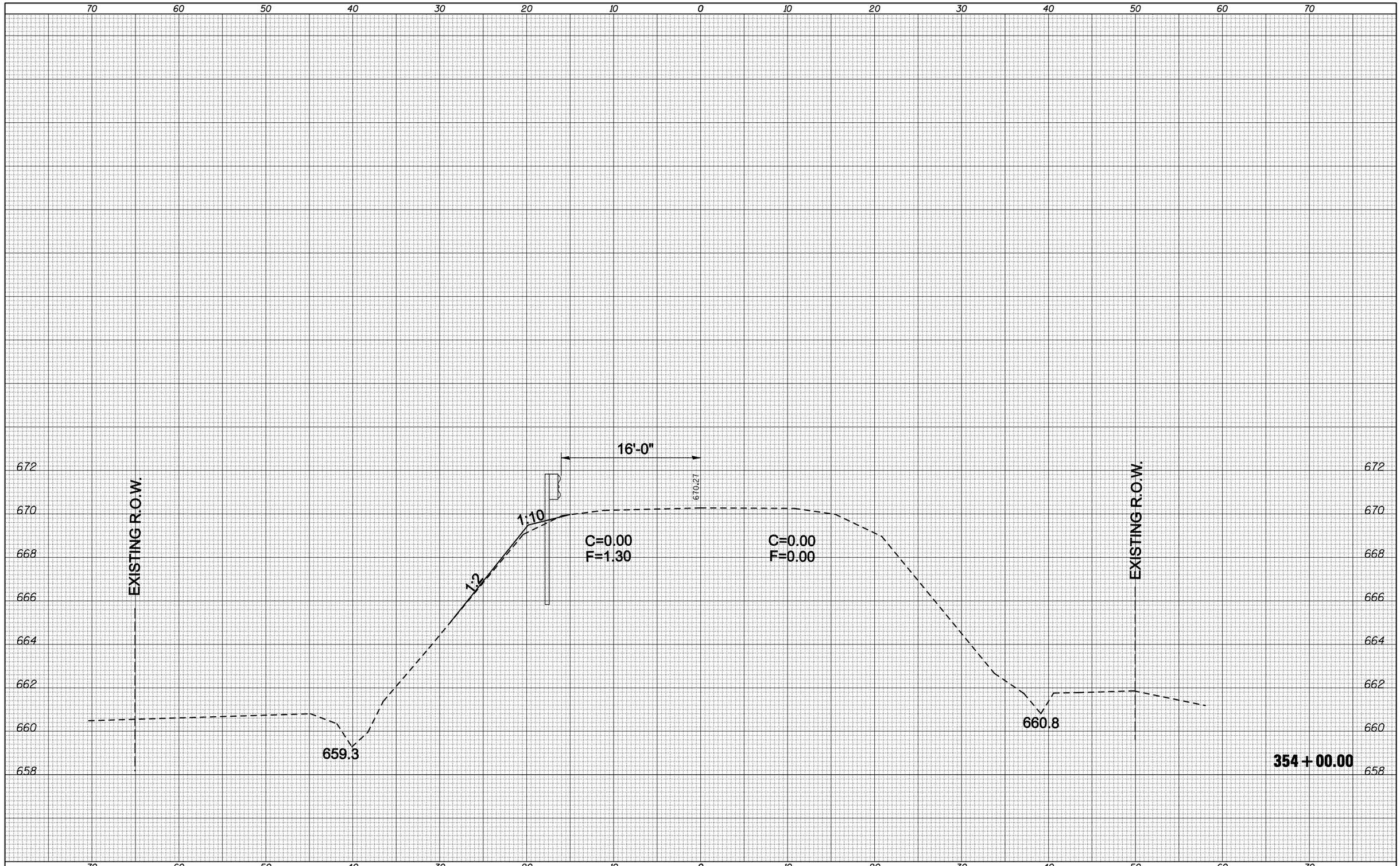
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	85
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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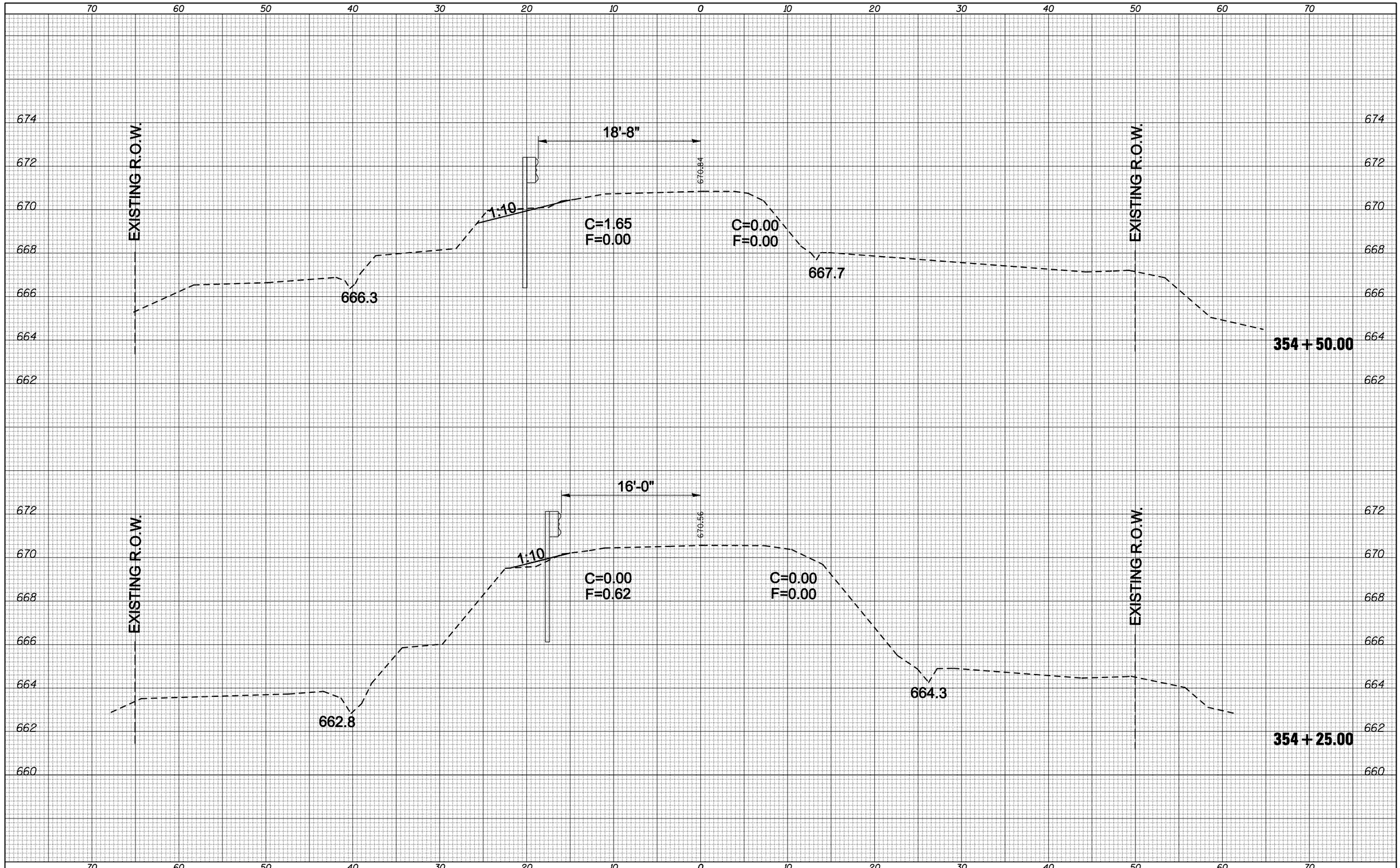
	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 354+00.00 TO STA. 354+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	86
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 354+25.00 TO STA. 354+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	87
		CONTRACT NO. 70458		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

676 674 672 670 668 666 664

EXISTING R.O.W.

67.13

C=0.00
F=0.00

C=0.00
F=0.00

EXISTING R.O.W.

354 + 75.00

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1531 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 354+75.00 TO STA. 354+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1531	10B-1 & 11B-1	PIATT	88	88
		CONTRACT NO. 70458		
		ILLINOIS FED. AID PROJECT		