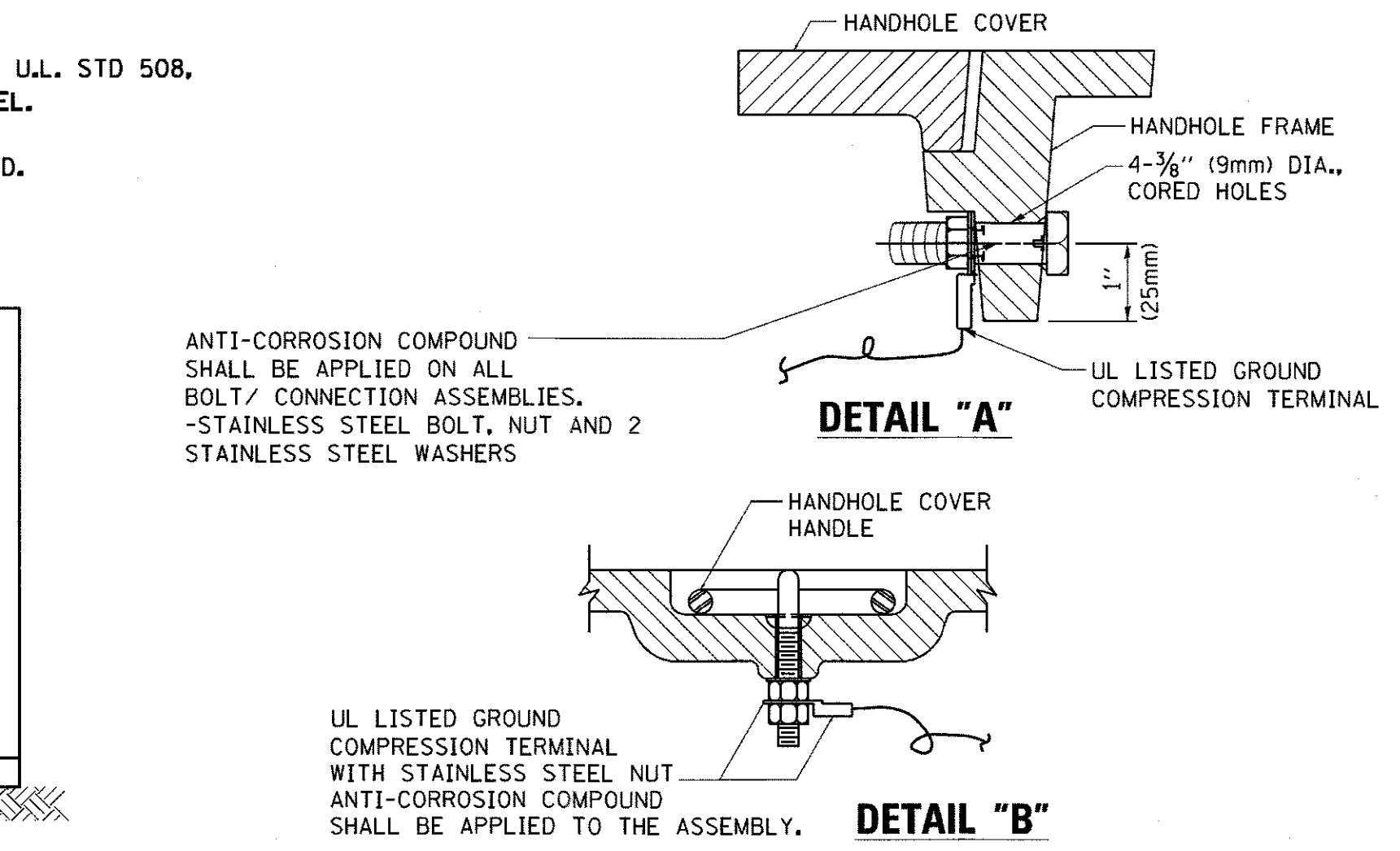
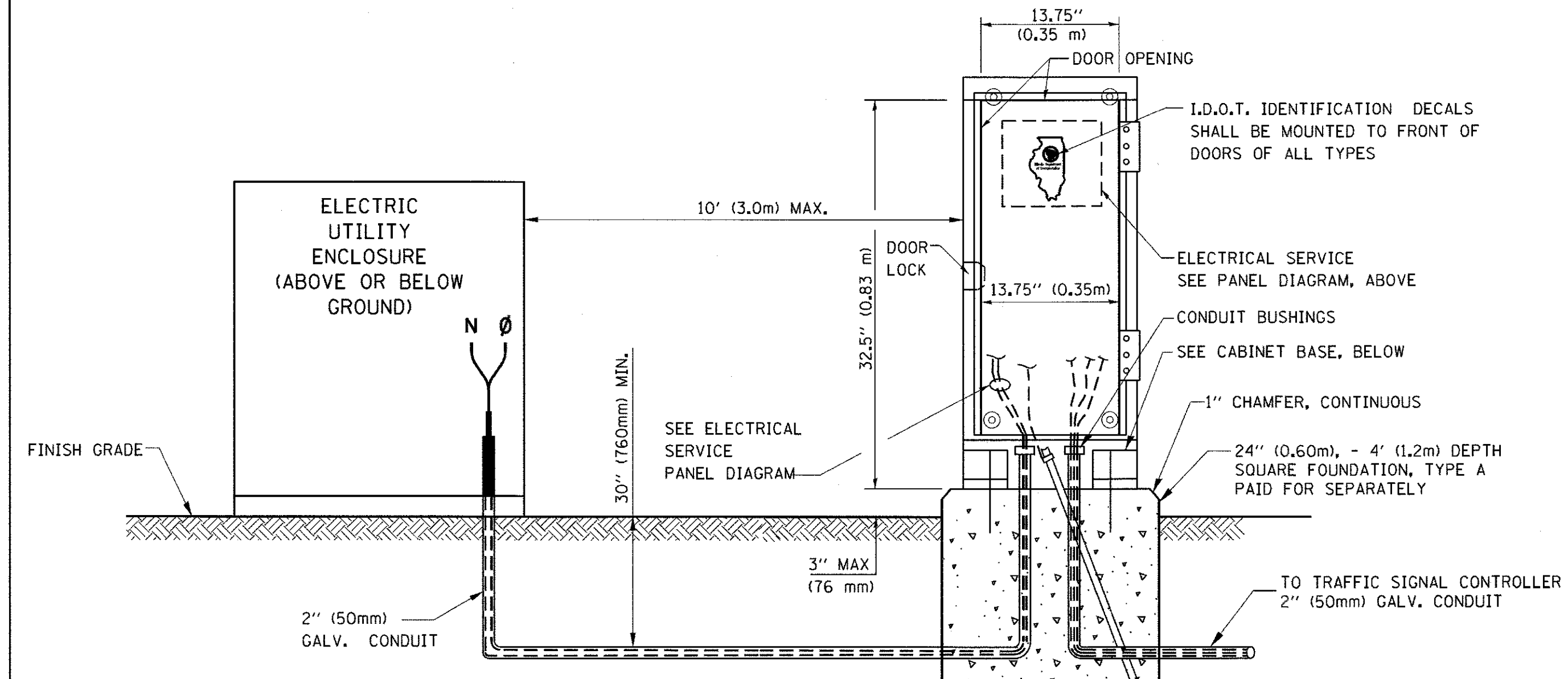


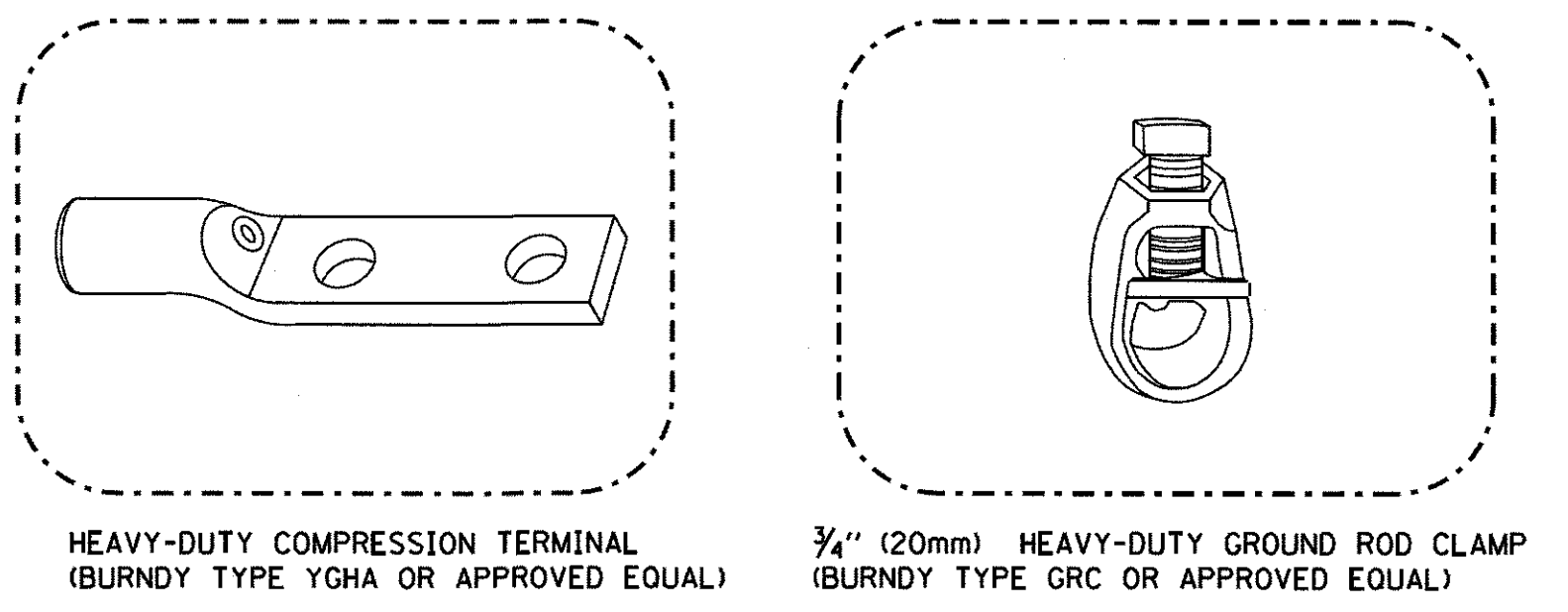
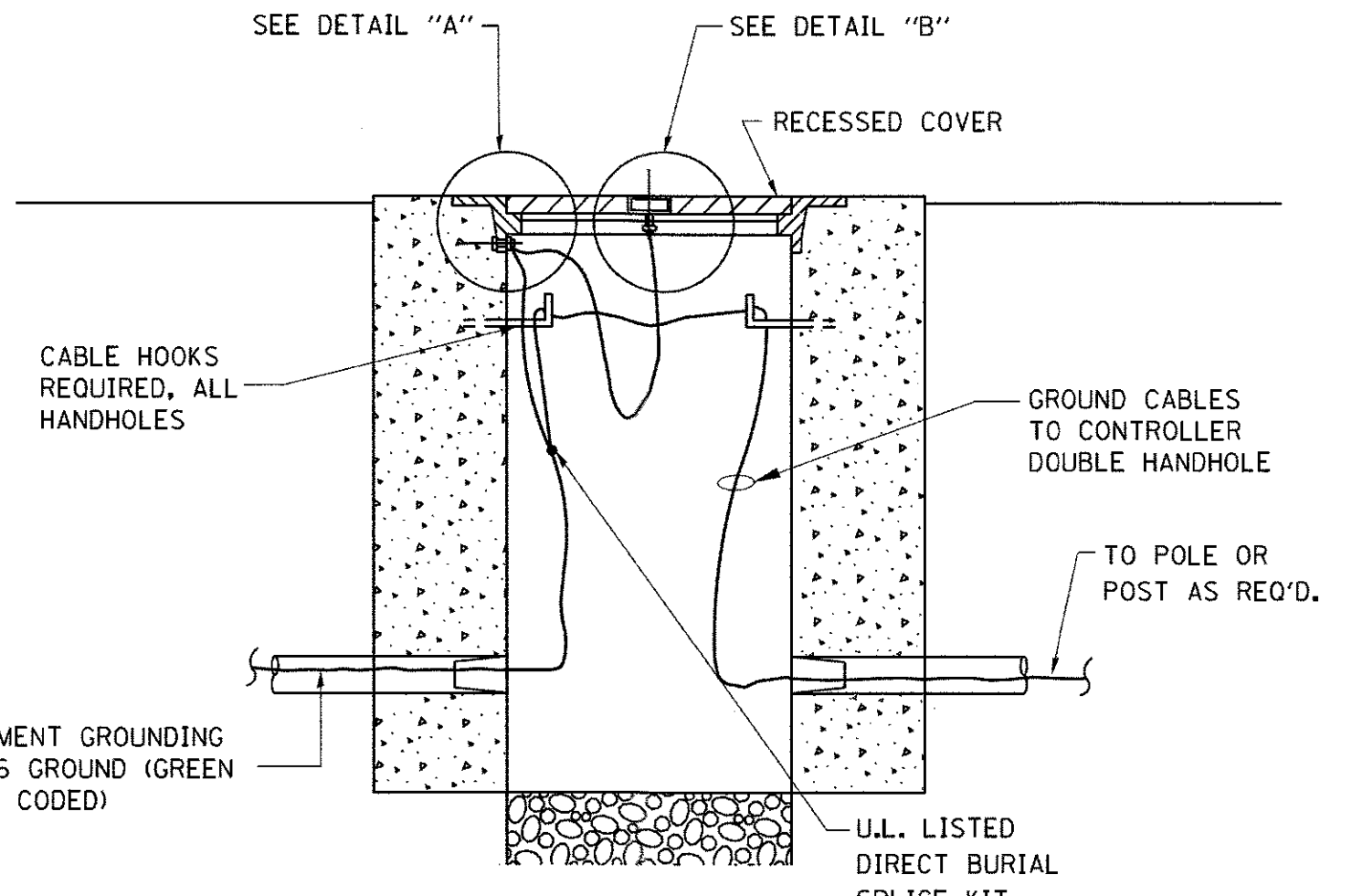
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



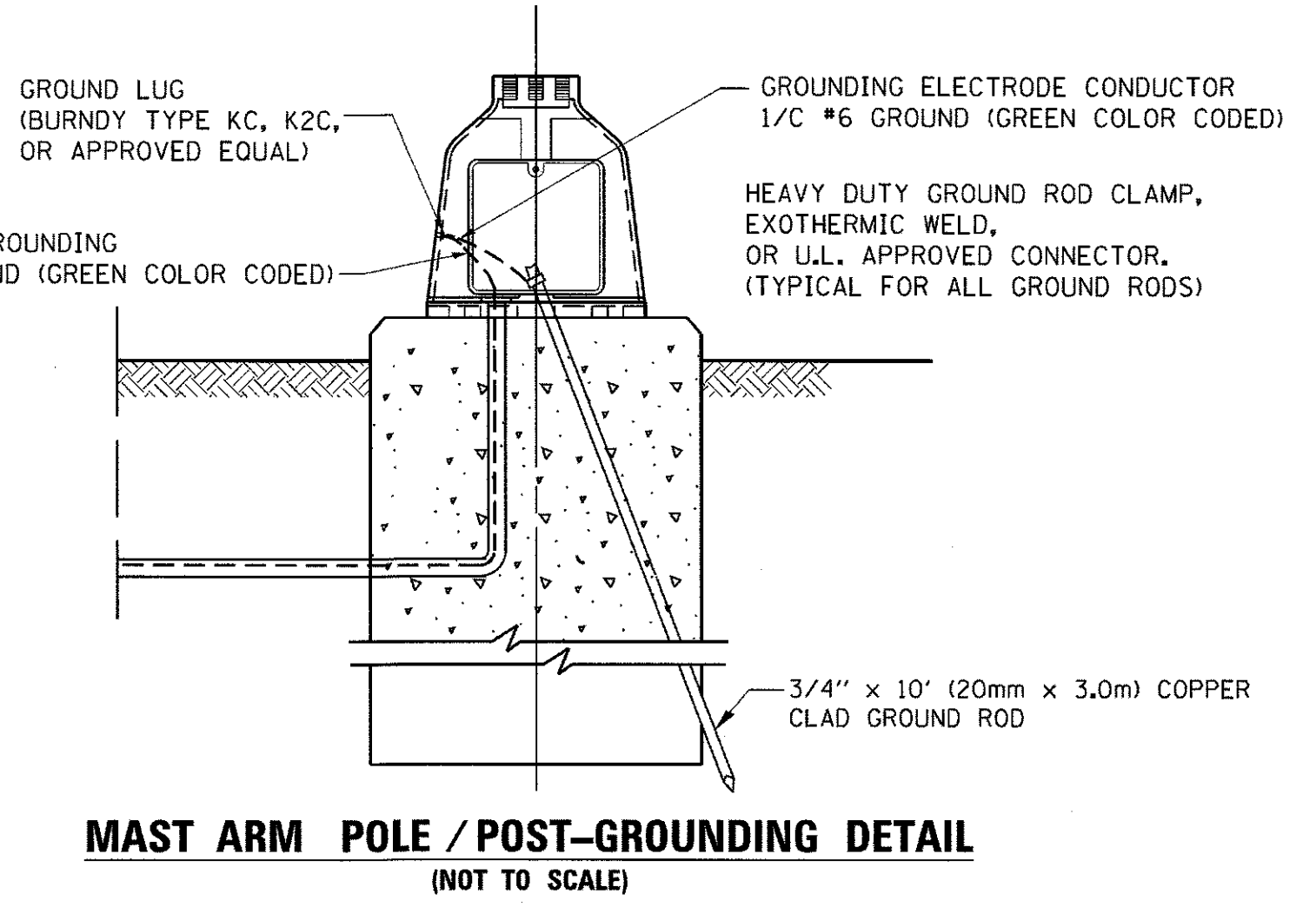
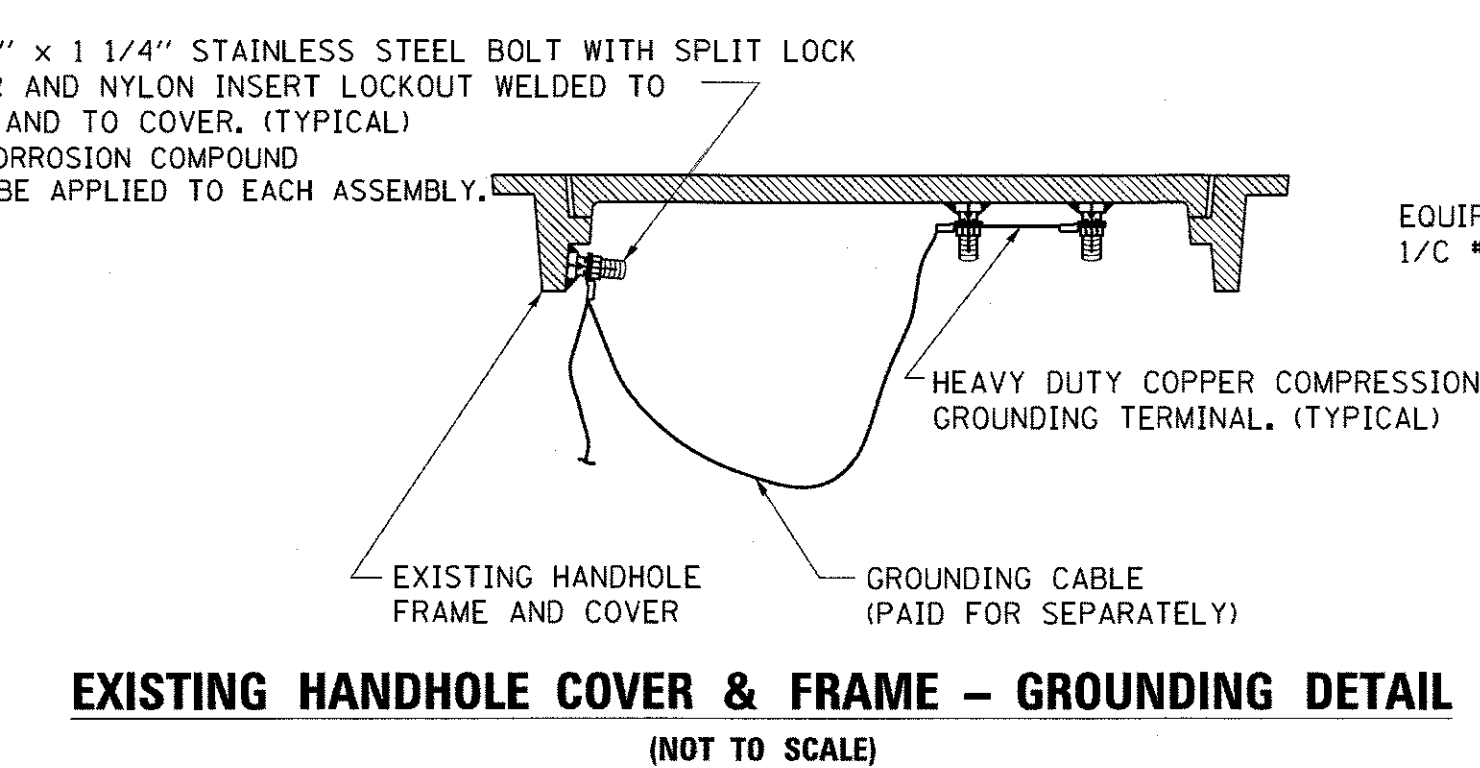
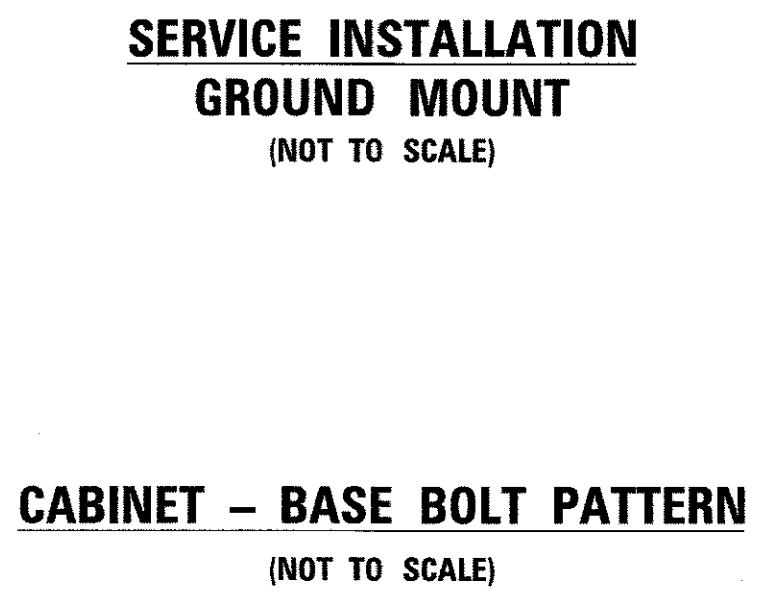
- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
  - THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
  - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

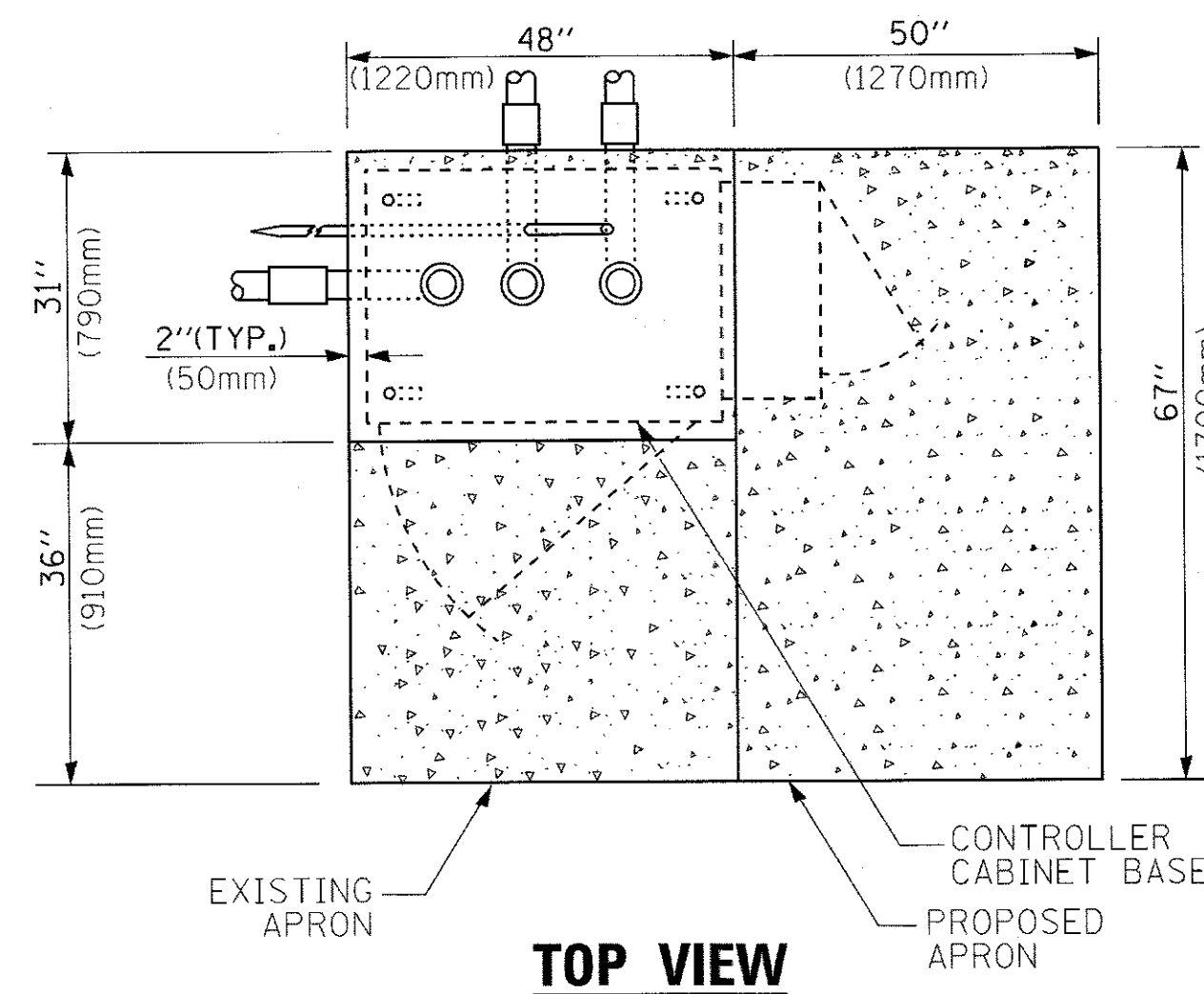


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

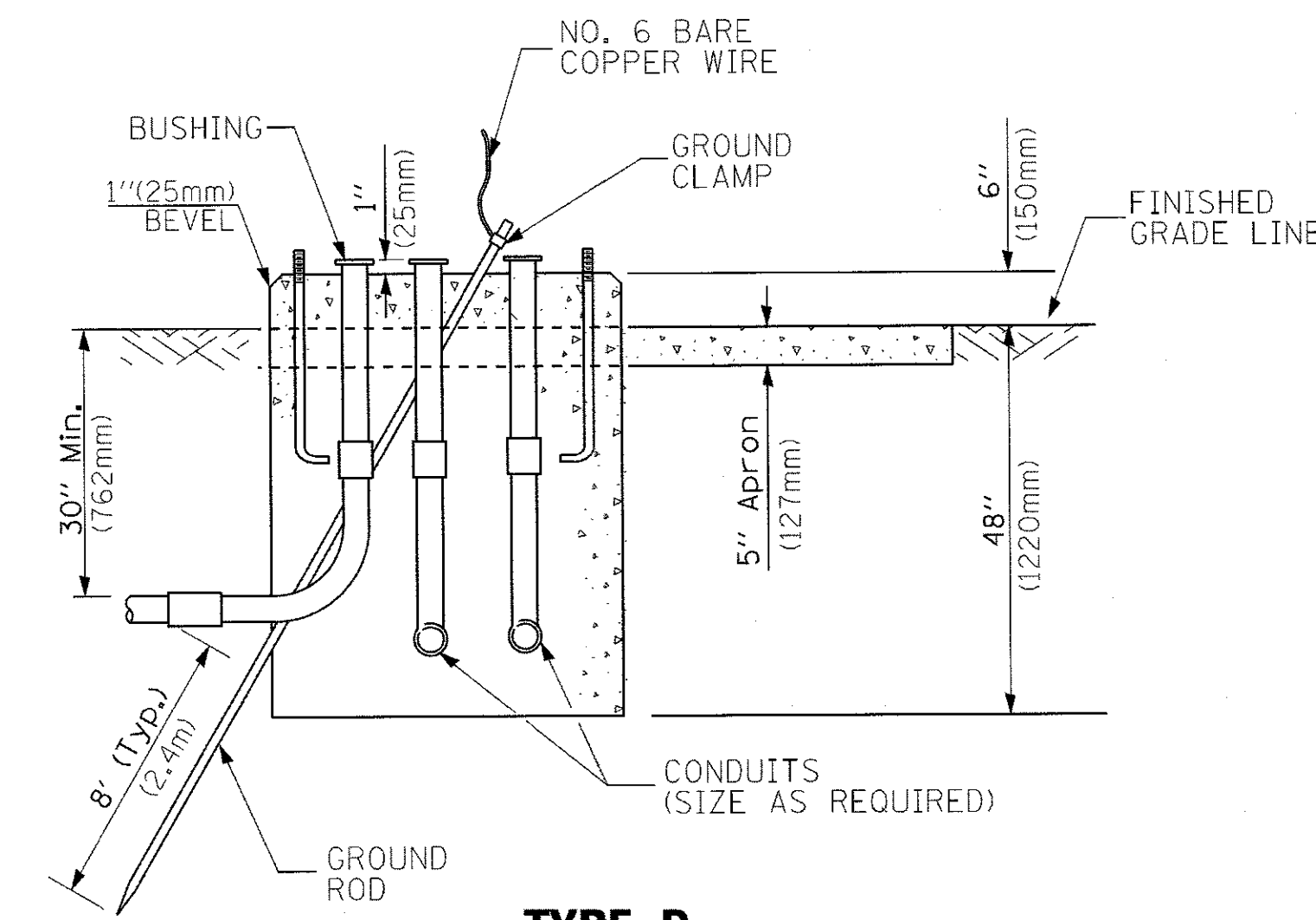


TS SHEET NO. 9

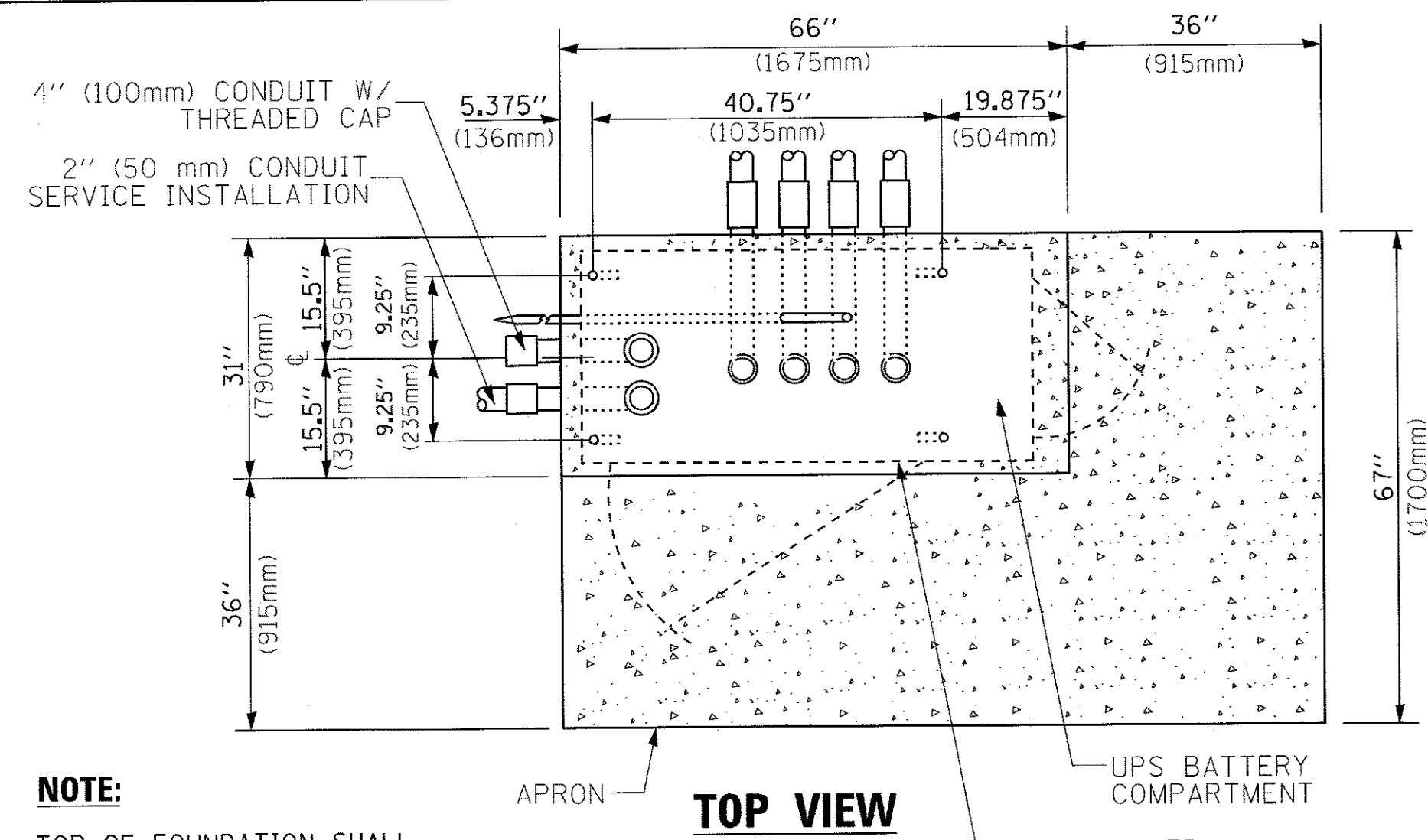
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	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISOR -									
		DATE - 10-28-09	REVISOR -									



**TOP VIEW**

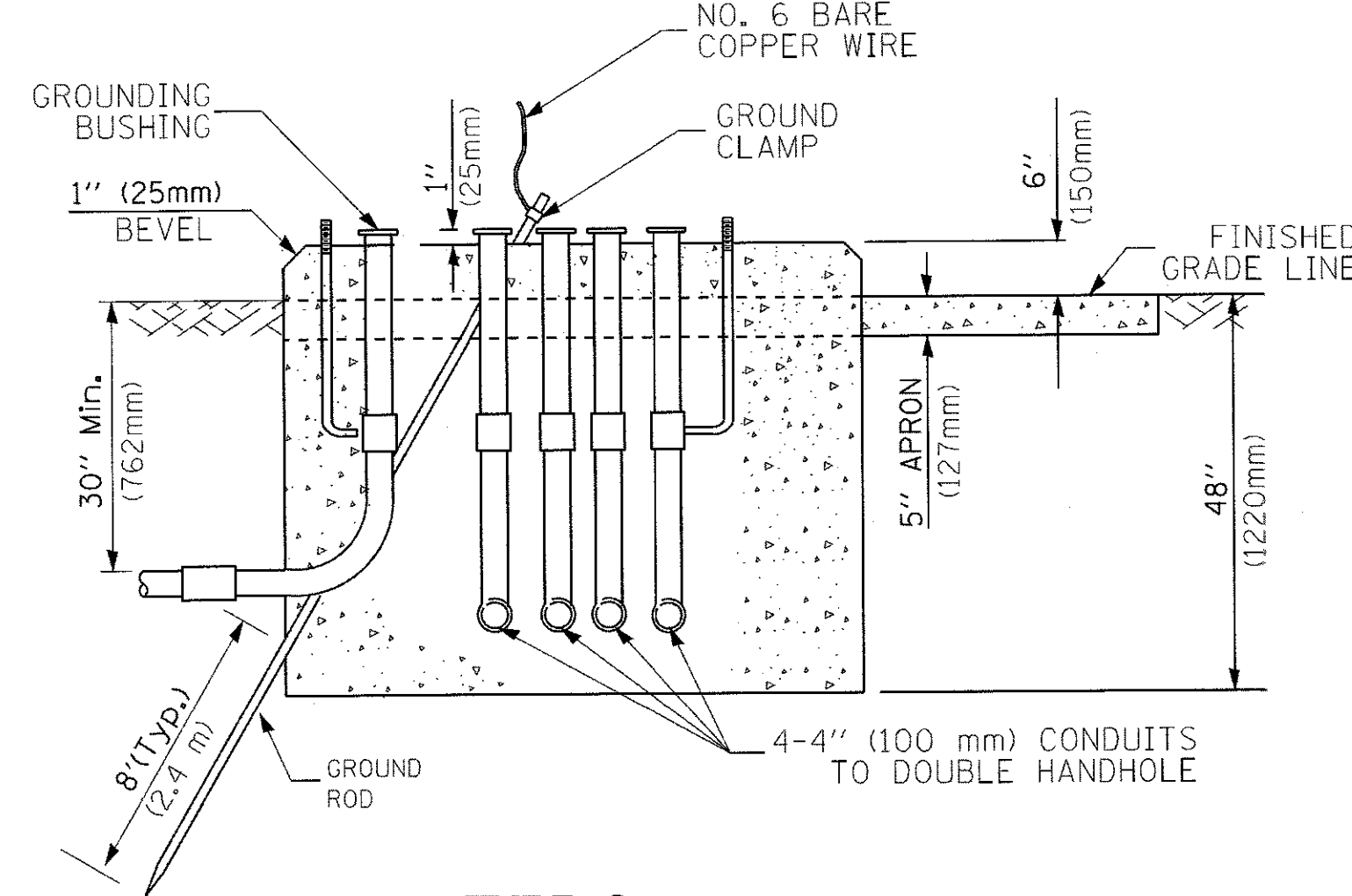


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

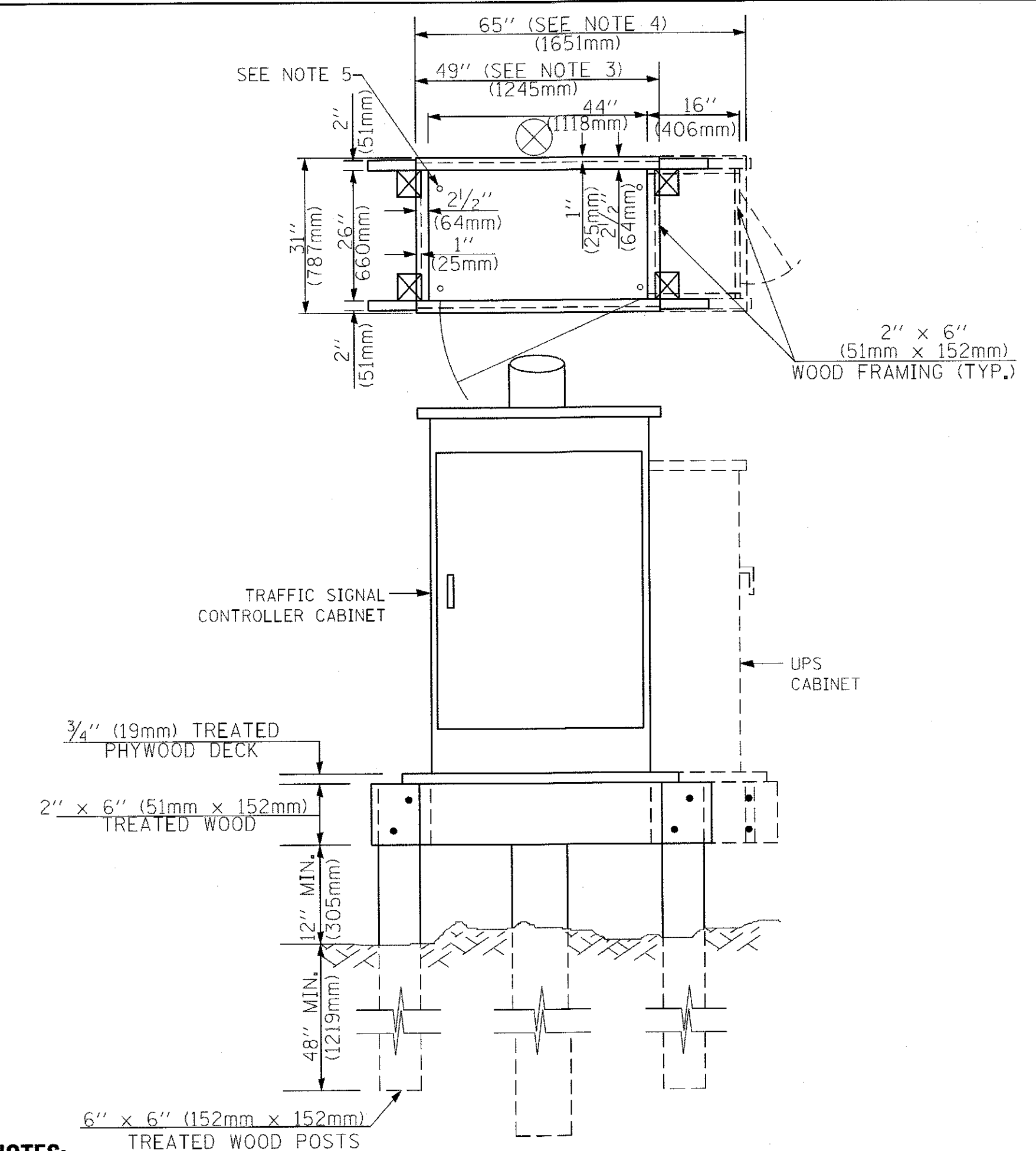


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

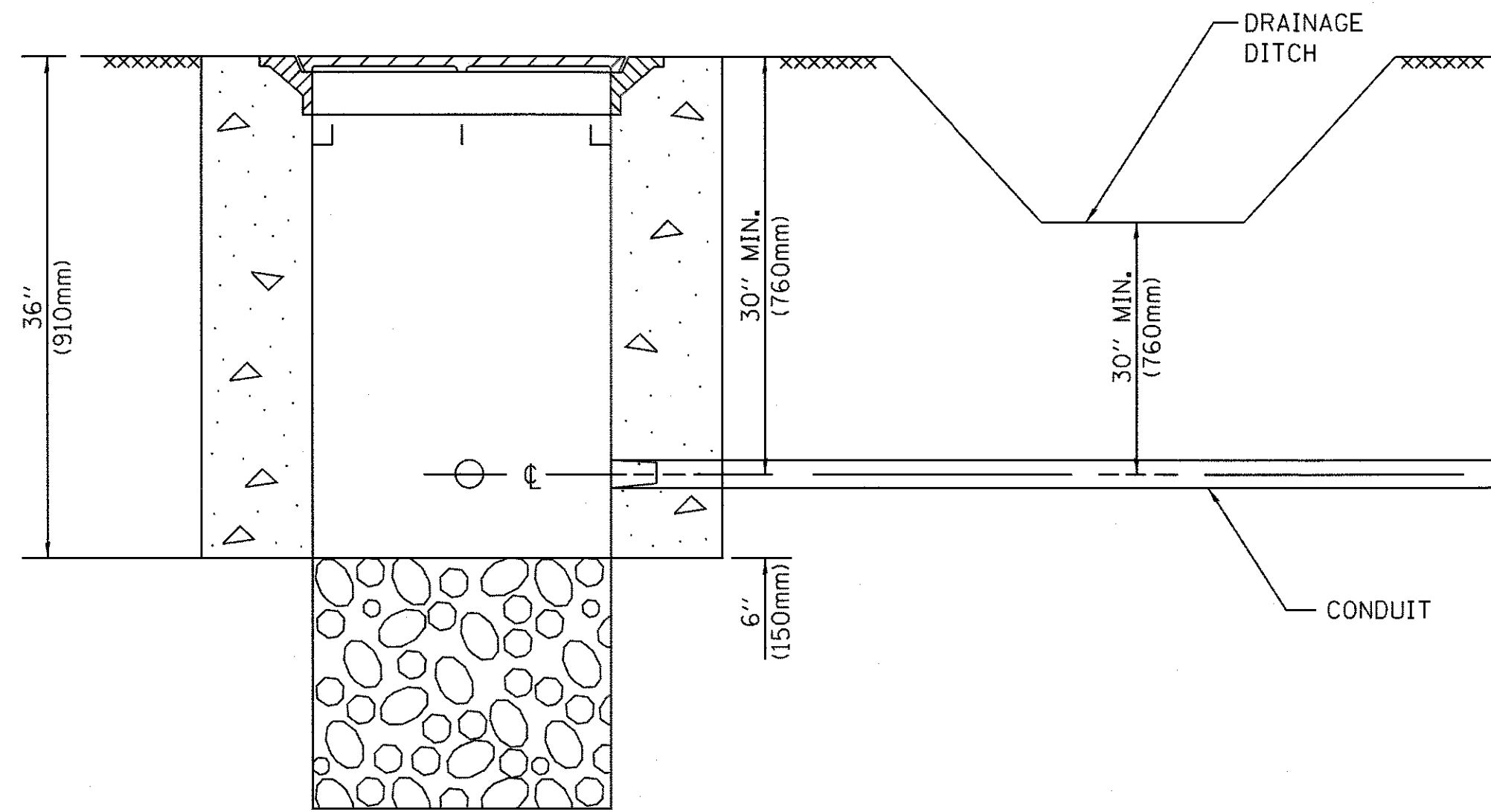
**NOTES:**

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

TS SHEET NO. 10

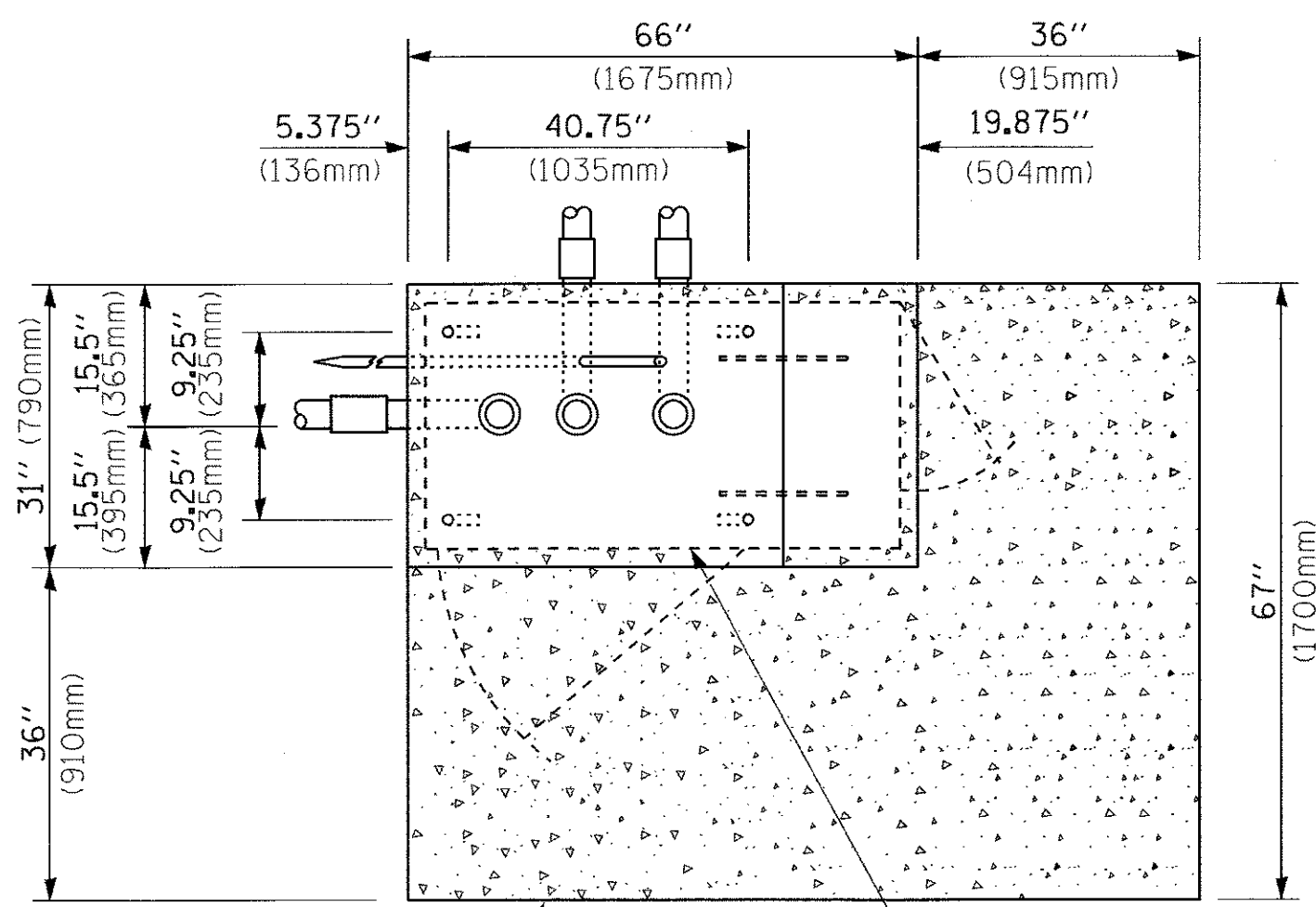




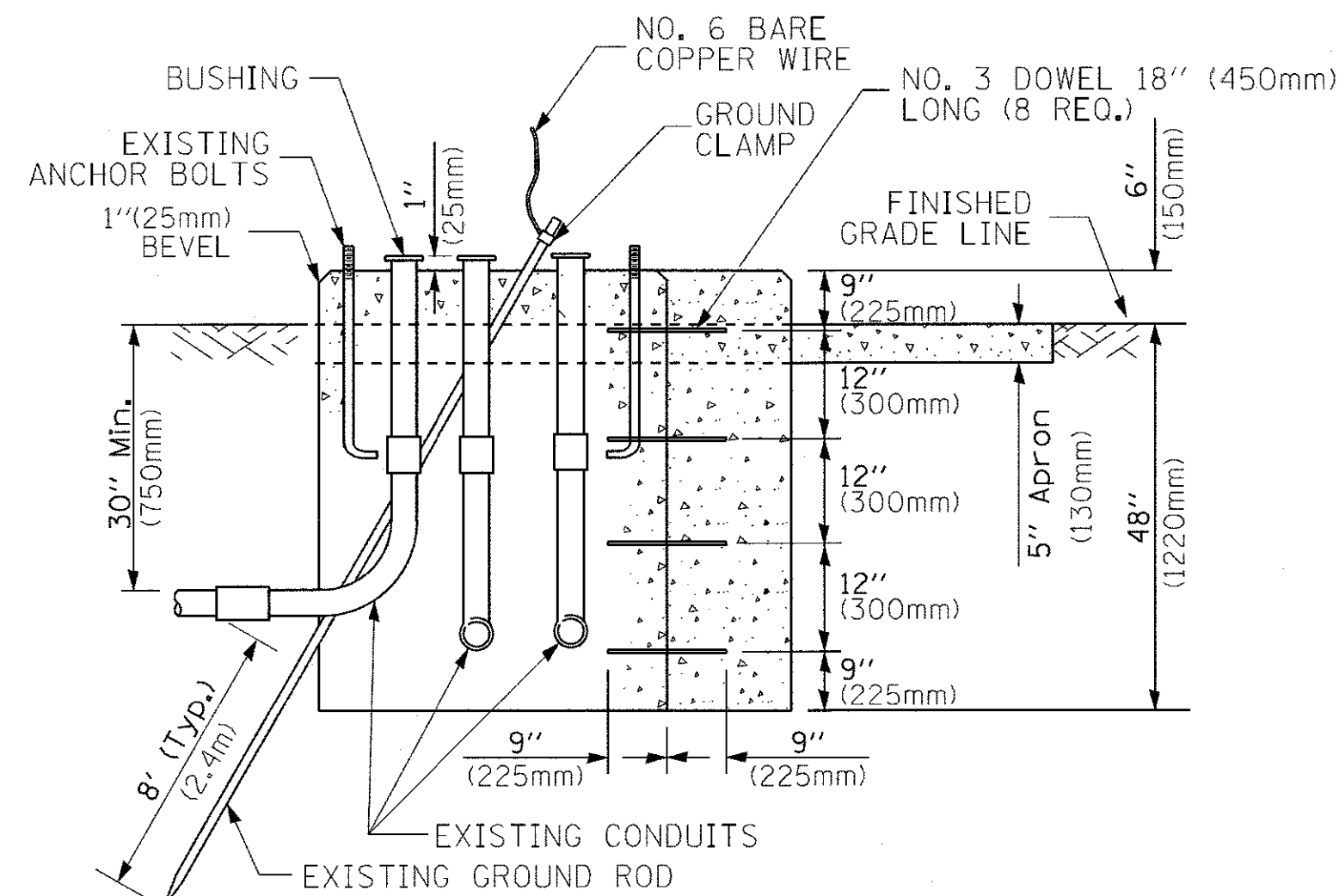
**NOTES:**

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)

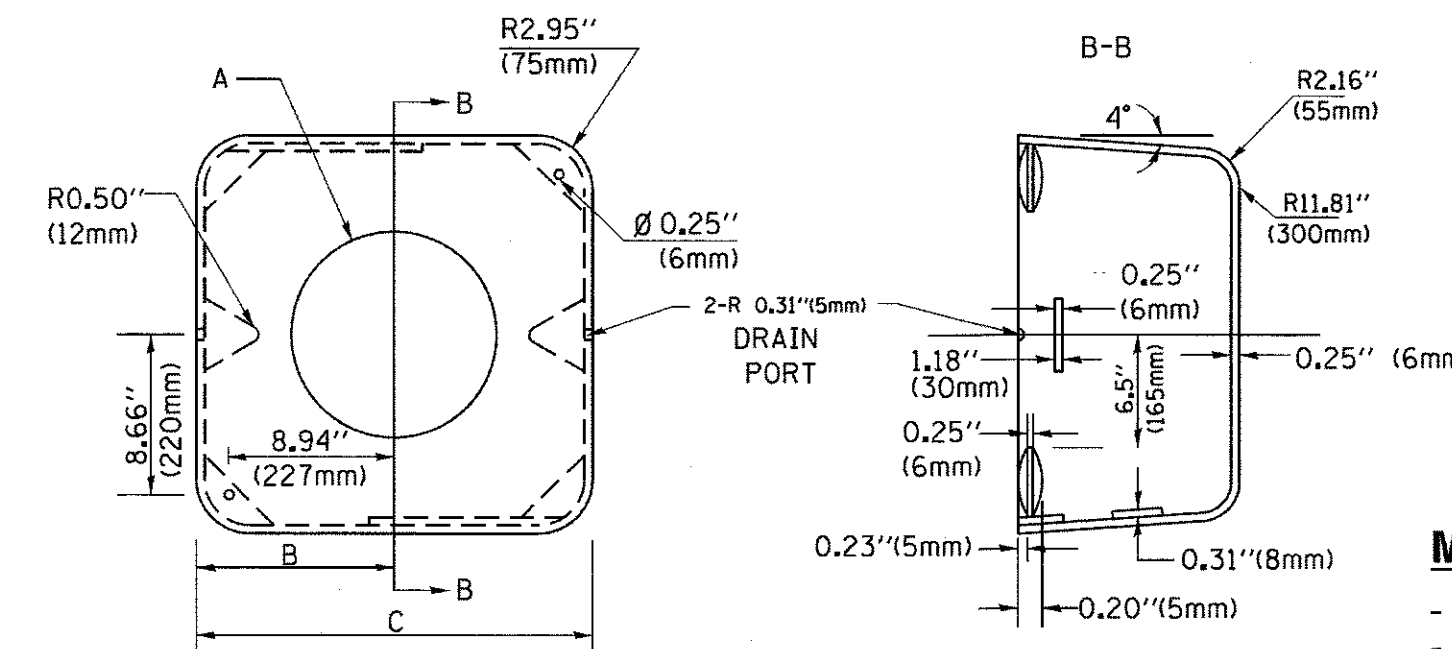


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

	A	B	C	HEIGHT	WEIGHT
VARIABLES	VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

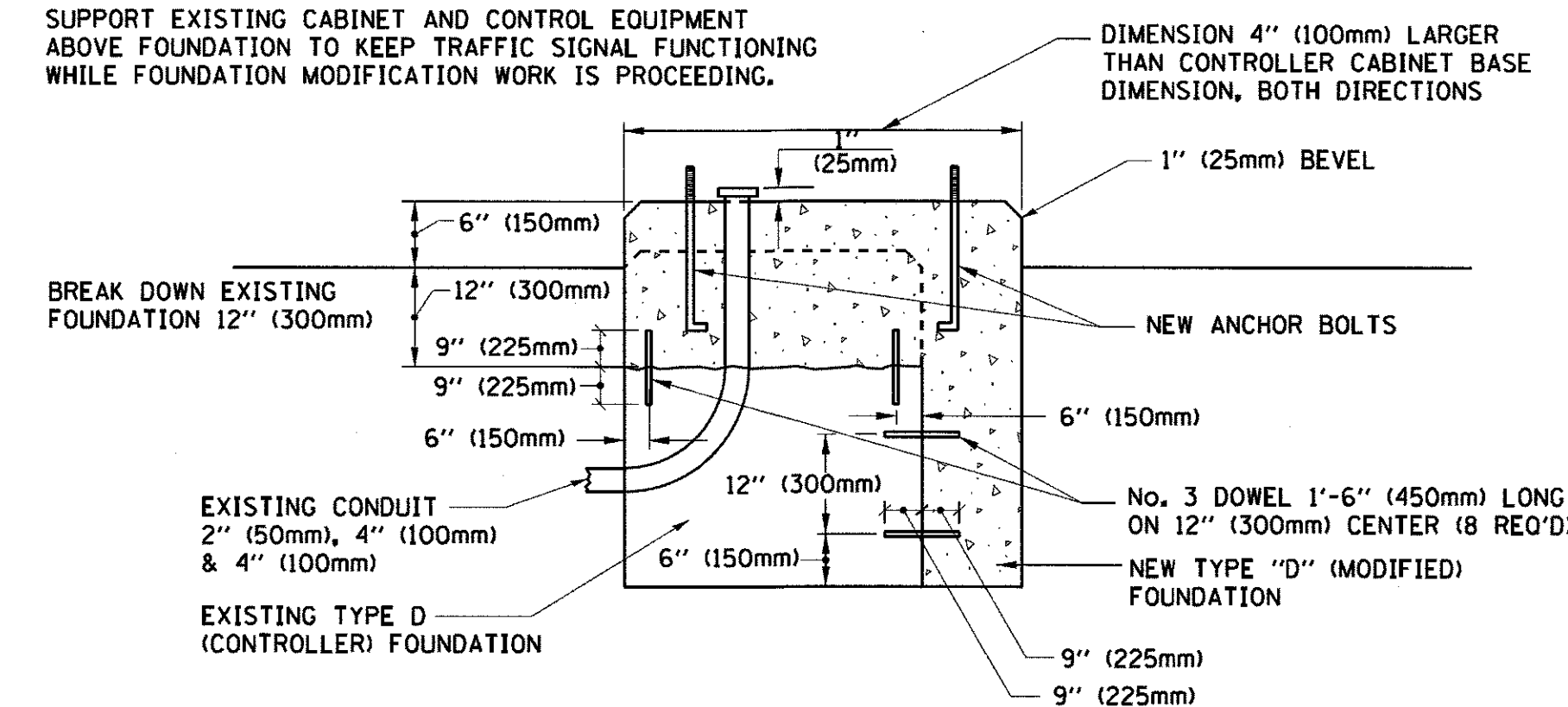
**SHROUD**

**NOTES:**

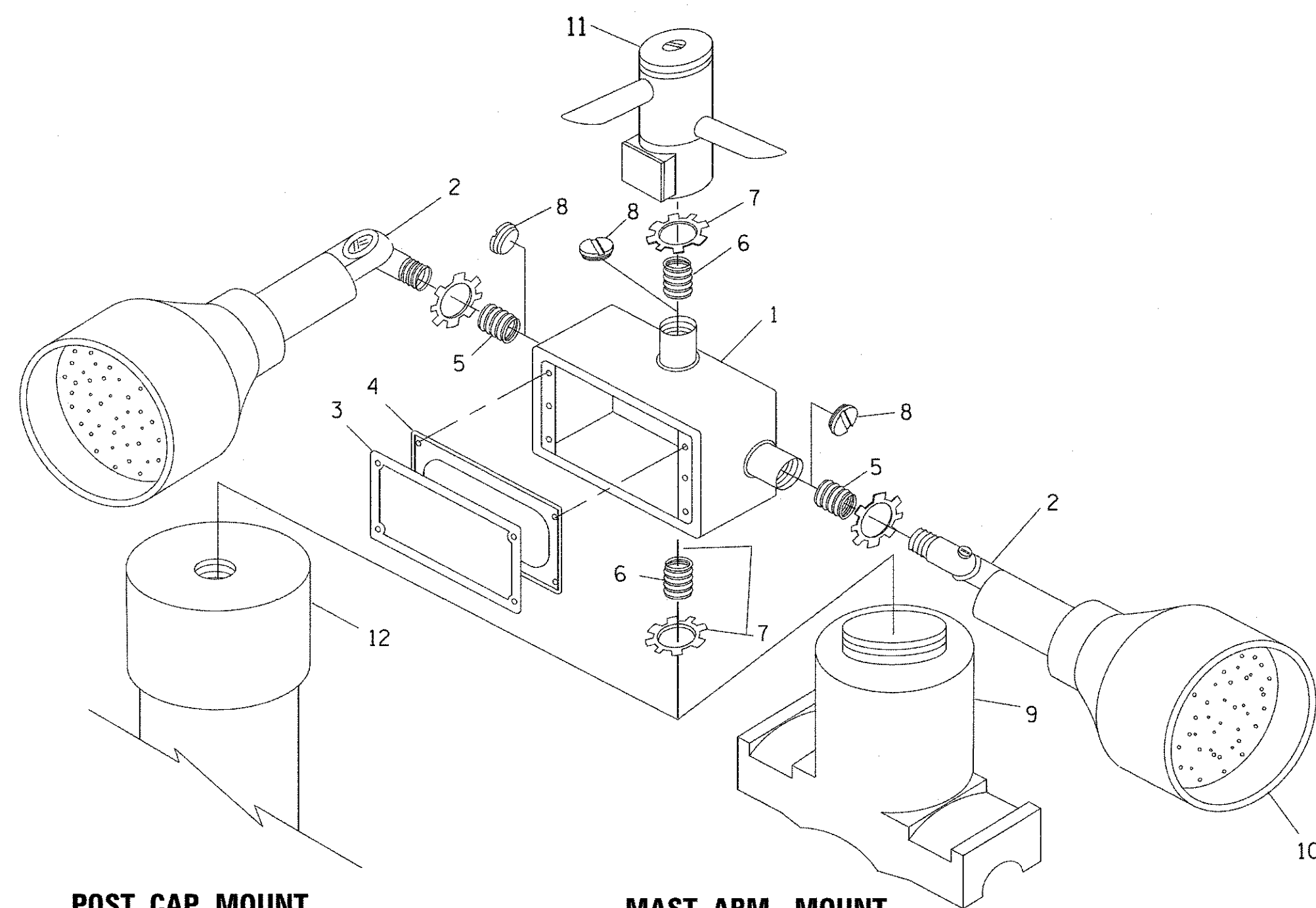
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



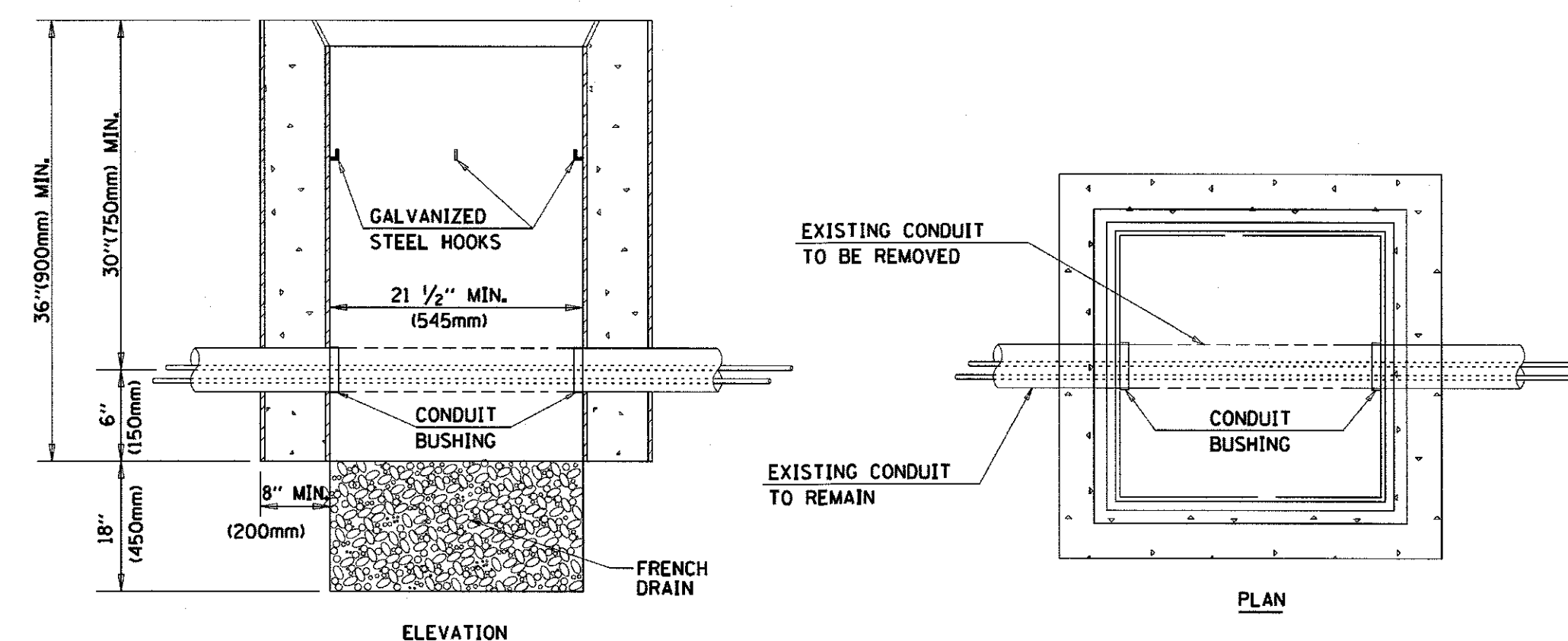
**MODIFY EXISTING TYPE "D" FOUNDATION**



**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**NOTES:**

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHEET NO. 11

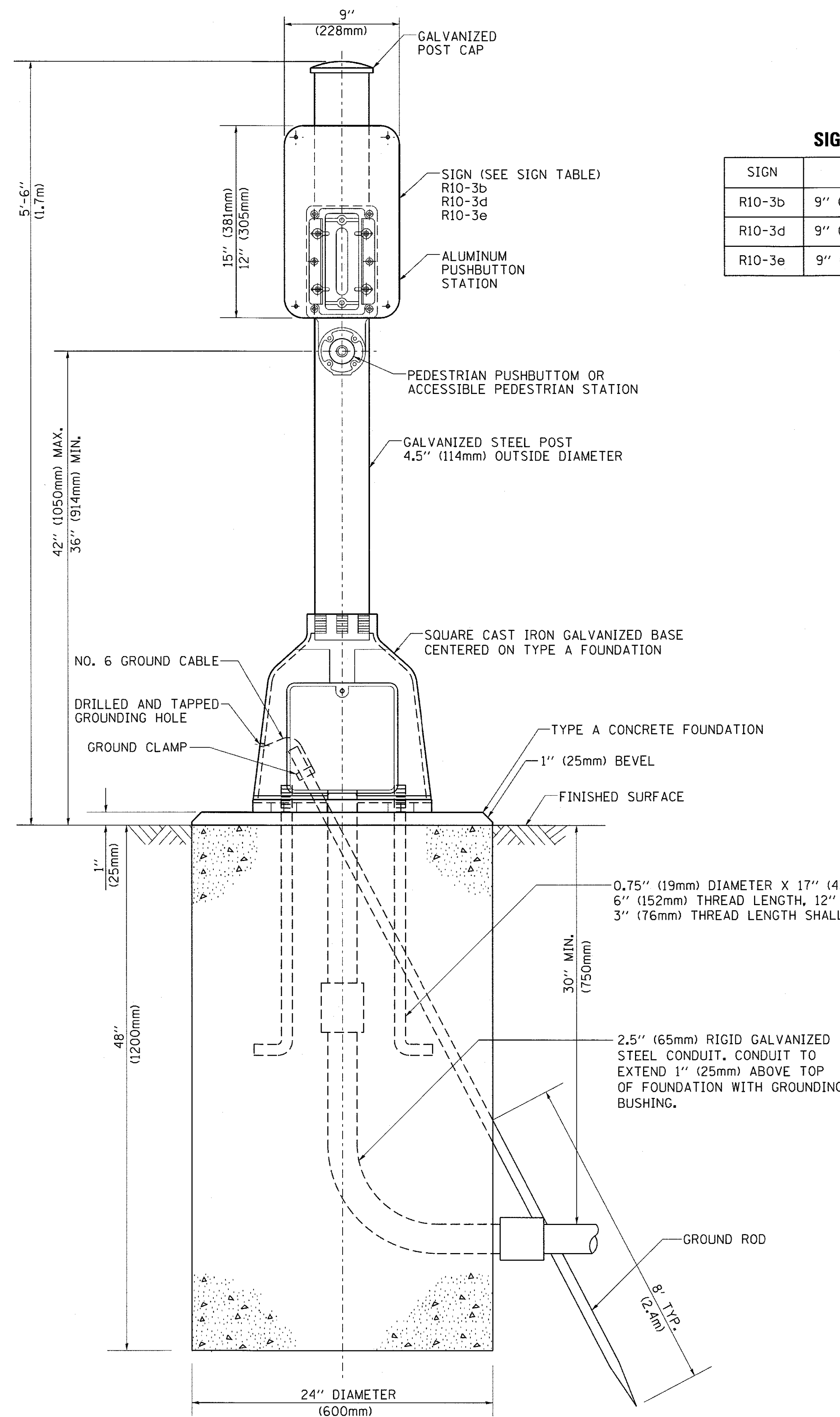
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

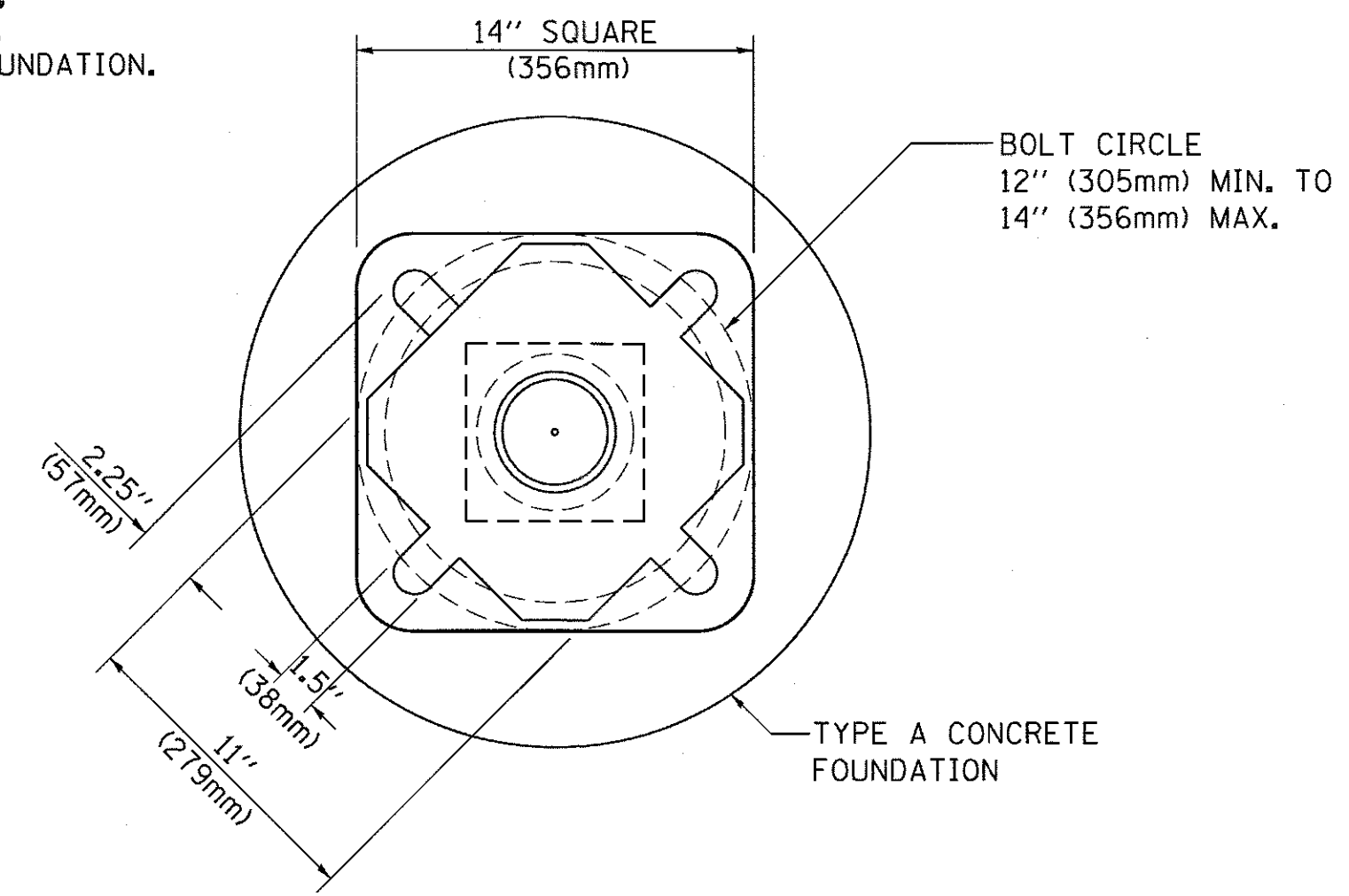
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	103
TS-05		CONTRACT NO. 61D16		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	104
<b>TS-05</b>		CONTRACT NO. 61D16		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

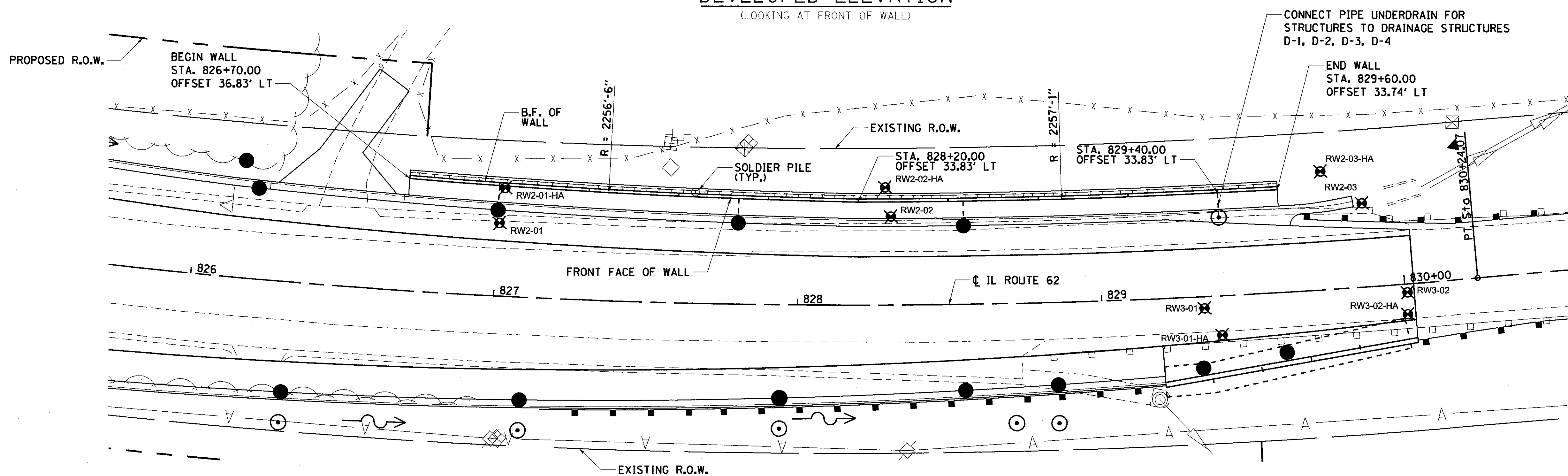
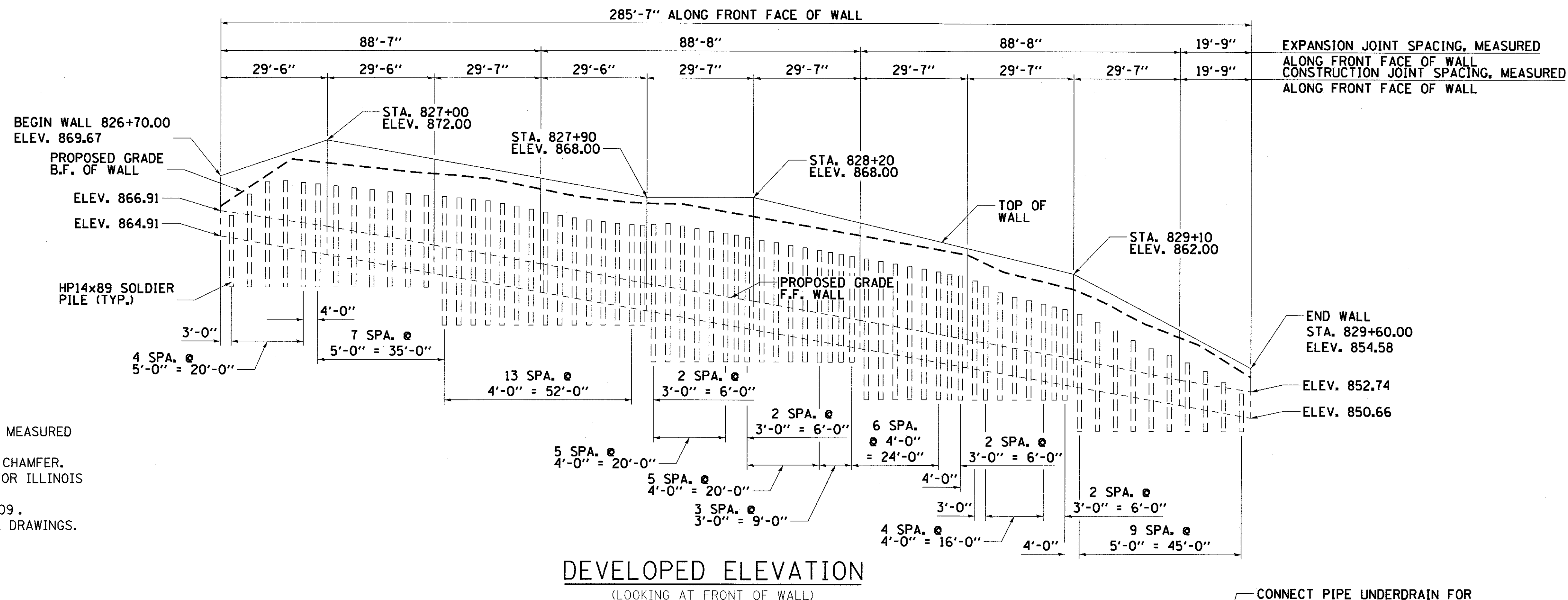


**LEGEND**

F.F. - DENOTES FRONT FACE  
 B.F. - DENOTES BACK FACE  
 E.F. - DENOTES EACH FACE

**NOTES:**

1. STATIONS, OFFSETS AND DIMENSIONS ARE MEASURED AT FRONT FACE OF WALL.
2. ALL EXPOSED CORNERS SHALL HAVE A 1" CHAMFER.
3. FOR GENERAL NOTES, SEE SHEET 3 AND FOR ILLINOIS ROUTE 62 PROFILE SEE SHEET 33.
4. FOR TYPICAL WALL DETAILS SEE SHEET 109.
5. FOR STORM DRAIN DETAILS SEE DRAINAGE DRAWINGS.



**PLAN**

**HIGHWAY CLASSIFICATION**

Designated Route: ILLINOIS ROUTE 62  
 Functional Class: OTHER PRINCIPAL ARTERIAL  
 Current ADT: 18,200  
 Future ADT: 31,000  
 Future DHV: 2,550  
 ADTT: 4%  
 Design Speed: 60 MPH  
 Posted Speed: 55 MPH

**DESIGN SPECIFICATIONS**

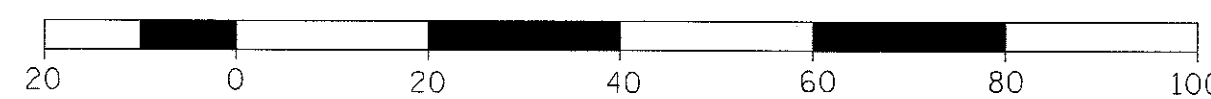
AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**

REINFORCED CONCRETE,  $f'_c = 3,500$  psi  
 REINFORCEMENT,  $f_y = 60,000$  psi  
 STRUCTURAL STEEL AASHTO M270 GRADE 36 (SOLDIER PILES)

**GENERAL PLAN**

IL ROUTE 62  
 SOLDIER PILE WALL  
 STATION 826+70.00 TO 829+60.00



FILE NAME = 74754-struct-pp01.dgn



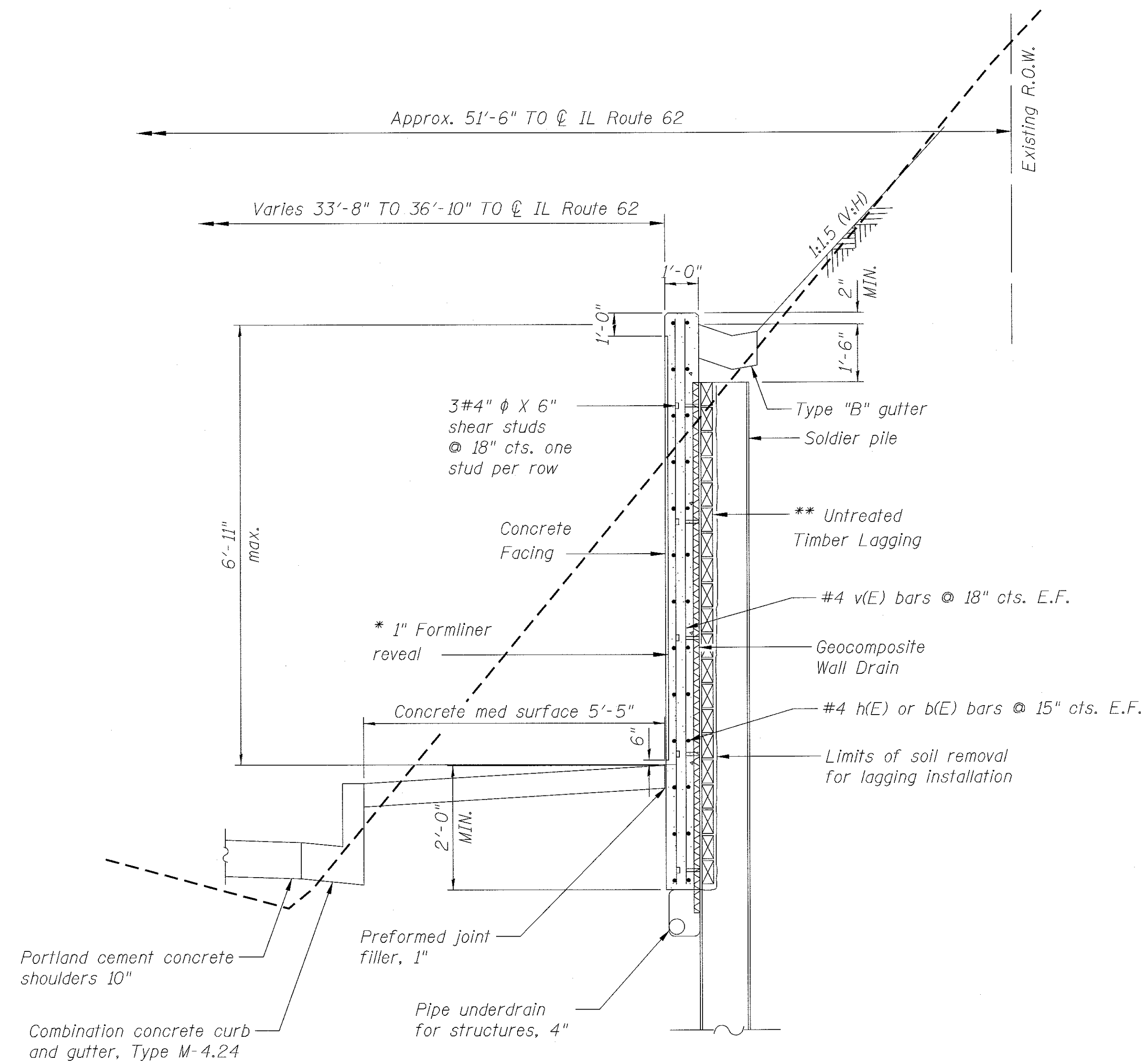
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	DATE - 9/5/2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 RETAINING WALL 62A**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	105
				CONTRACT NO. 61D16
ILLINOIS FED. AID PROJECT				



**SOLDIER PILE WALL  
TYPICAL SECTION**

**NOTES:**

1. All exposed corners shall have a 1" chamfer.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. For General Notes see Sheet 3 and for Illinois Route 62 Profile see sheet 7.
4. \* Contractor shall submit proposed formliner pattern for approval in accordance with the IDOT Standard Specifications for Road and Bridge Construction.
5. \*\* The contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

Pile Number	Pile CL Station	Pile CL Offset	Top of Pile Elevation	Pile Length (FT)	# Shear Studs
1	826+73.07	37.77	867.17	30	2
2	826+78.15	37.66	867.29	30	2
3	826+83.23	37.56	868.24	30	3
4	826+88.31	37.46	869.19	30	4
5	826+93.39	37.36	869.40	30	4
6	826+97.45	37.28	869.28	30	4
7	827+02.53	37.18	869.12	30	4
8	827+07.61	37.08	868.97	30	4
9	827+12.69	36.97	868.82	30	4
10	827+17.77	36.87	868.67	30	4
11	827+22.85	36.77	868.51	30	4
12	827+27.92	36.67	868.39	30	4
13	827+33.00	36.57	868.30	30	5
14	827+37.06	36.49	868.20	30	5
15	827+41.13	36.4	868.09	30	5
16	827+45.19	36.32	867.96	30	5
17	827+49.25	36.24	867.75	30	5
18	827+53.31	36.16	867.53	30	5
19	827+57.37	36.08	867.30	30	5
20	827+61.43	36	867.06	30	5
21	827+65.50	35.92	866.82	30	5
22	827+69.56	35.84	866.60	30	5
23	827+73.62	35.75	866.46	30	5
24	827+77.68	35.67	866.32	30	5
25	827+81.74	35.59	866.19	30	5
26	827+85.80	35.51	866.08	30	5
27	827+89.84	35.45	866.04	30	5
28	827+91.89	35.39	866.02	30	5
29	827+95.95	35.31	865.99	30	5
30	828+00.01	35.23	865.97	30	5
31	828+04.07	35.14	865.77	30	5
32	828+08.13	35.06	865.57	30	5
33	828+12.19	34.98	865.37	30	5
34	828+15.23	34.92	865.22	30	5
35	828+18.28	34.86	865.07	30	5
36	828+22.30	34.83	864.88	30	5
37	828+26.36	34.83	864.67	30	5
38	828+30.42	34.83	864.47	30	5
39	828+34.48	34.83	864.27	30	5
40	828+38.54	34.83	864.06	30	5
41	828+41.58	34.83	863.91	30	5
42	828+44.63	34.83	863.76	30	5
43	828+47.67	34.83	863.61	30	5
44	828+51.73	34.83	863.40	30	5
45	828+55.79	34.83	863.20	30	5

Pile Number	Pile CL Station	Pile CL Offset	Top of Pile Elevation	Pile Length (FT)	# Shear Studs
46	828+59.85	34.83	863.00	30	5
47	828+63.91	34.83	862.79	30	5
48	828+67.97	34.83	862.59	30	5
49	828+72.03	34.83	862.39	30	5
50	828+75.08	34.83	862.24	30	5
51	828+78.12	34.83	862.08	30	5
52	828+82.18	34.83	861.70	30	5
53	828+85.23	34.83	861.30	30	5
54	828+89.29	34.83	860.76	30	5
55	828+93.35	34.83	860.43	30	5
56	828+97.41	34.83	860.15	30	5
57	829+01.47	34.83	859.87	30	5
58	829+04.52	34.83	859.43	30	4
59	829+07.56	34.83	859.46	30	4
60	829+11.62	34.83	859.10	30	4
61	829+16.69	34.83	858.47	30	4
62	829+21.77	34.83	857.77	30	4
63	829+26.84	34.83	857.02	30	3
64	829+31.92	34.83	856.37	30	3
65	829+36.99	34.83	855.81	30	3
66	829+42.07	34.83	855.26	30	3
67	829+47.14	34.82	854.58	30	2
68	829+52.22	34.79	853.71	30	2
69	829+57.30	34.76	852.83	30	2

**INDEX OF SHEETS**

RETAINING WALL 62A

SHEET NO.

91	GENERAL PLAN AND ELEVATION
92	GENERAL NOTES, INDEX, BILL OF MATERIALS
93	SOLDIER PILE WALL ELEVATIONS
94	SOLDIER PILE WALL ELEVATIONS
95	SOLDIER PILE WALL DETAILS
96	REINFORCEMENT DETAILS
97	BORING LOGS

BILL OF MATERIALS		
ITEM	UNIT	TOTAL QUANTITY
STRUCTURE EXCAVATION	CU YD	231
CONCRETE STRUCTURES	CU YD	90
FORM LINER TEXTURED SURFACE	SQ FT	1437
STAINING CONCRETE STRUCTURES	SQ FT	1437
SHEAR STUD CONNECTORS	EACH	304
REINFORCEMENT BARS, EPOXY COATED	POUND	5460
GEOCOMPOSITE WALL DRAIN	SO YD	69
UNTREATED TIMBER LAGGING	SO FT	1438
FURNISH SOLDIER PILES (HP SECTION)	FOOT	2070
DRIVING SOLDIER PILES	FOOT	2070
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	300
PROTECTIVE COAT	SQ YD	275
ANTI-GRAFFITI PROTECTION SYSTEM	SQ FT	1437
GRANULAR BACKFILL FOR STRUCTURES	CU YD	69

**LEGEND**

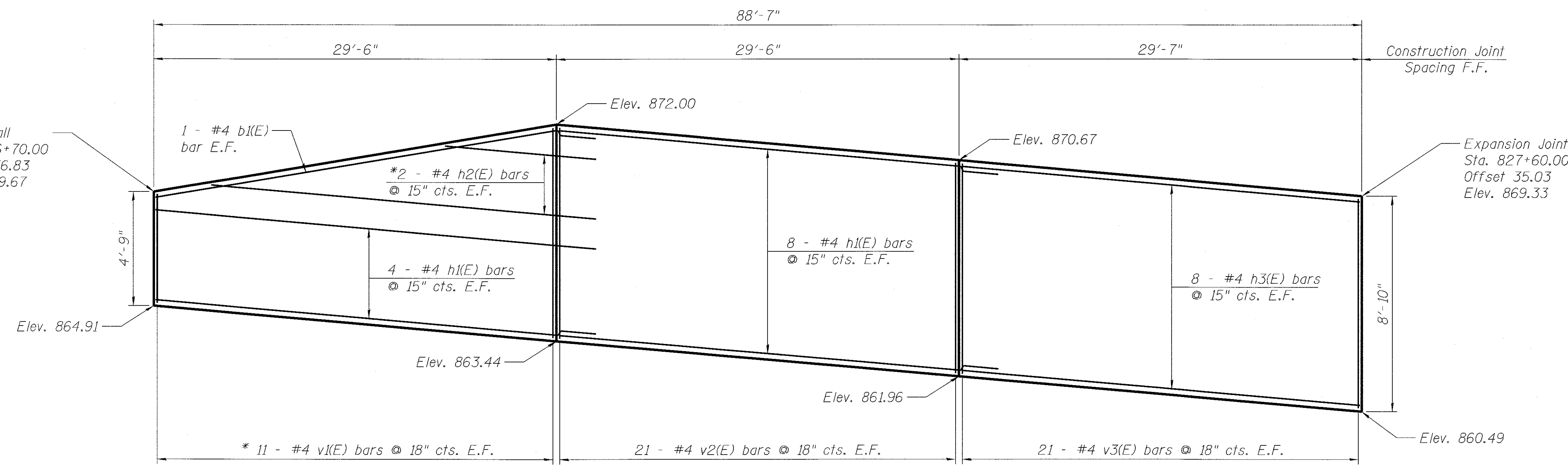
- F.F. - Denotes front face
- B.F. - Denotes back face
- E.F. - Denotes each face

FILE NAME: 74754-shr-struct-rs02.dgn

<b>BURNS MCDONNELL</b>	USER NAME = rjiang	DESIGNED - JAR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, INDEX, BILL OF MATERIALS RETAINING WALL 62A</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.5/3000' / 1" =	CHECKED - JAR	REVISED -			2298	13-00215-30-PV	KANE	177	106
	PLOT DATE = 9/1/2017	DATE - 9/5/2017	REVISED -		SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 61D16				

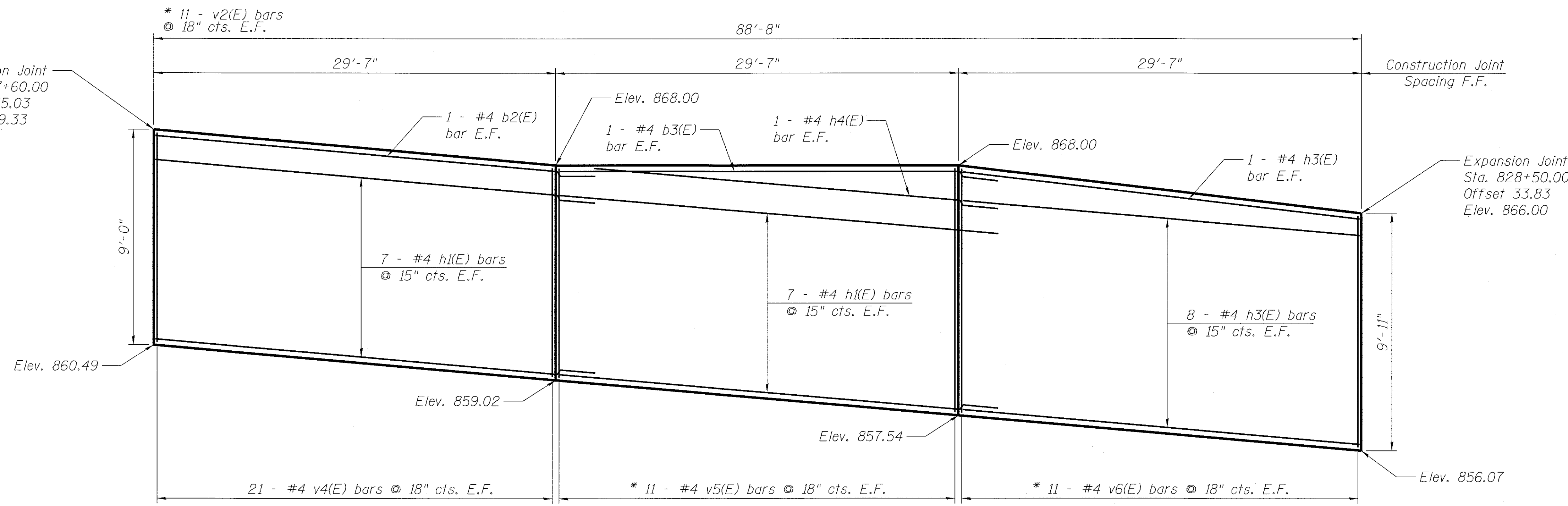


Begin Wall  
Sta. 826+70.00  
Offset 36.83  
Elev. 869.67



ELEVATION A

Expansion Joint  
Sta. 827+60.00  
Offset 35.03  
Elev. 869.33



ELEVATION B

BAR LAPS

#4 BARS - 2'-7"

LEGEND

F.F. - Denotes front face  
B.F. - Denotes back face  
E.F. - Denotes each face

NOTES:

- \* See Field Cutting Diagram on sheet 96.
- Reinforcement bars designated (E) shall be epoxy coated.
- Stations, offsets and dimensions are measured at front face of wall.

FILE NAME = 74754-shr-struct-pp03.dgn



USER NAME = rj:lang	DESIGNED - JAR	REVISED -
DRAWN - TMG	REVISOR -	
CHECKED - JAR	REVISOR -	
DATE - 9/5/2017	REVISOR -	

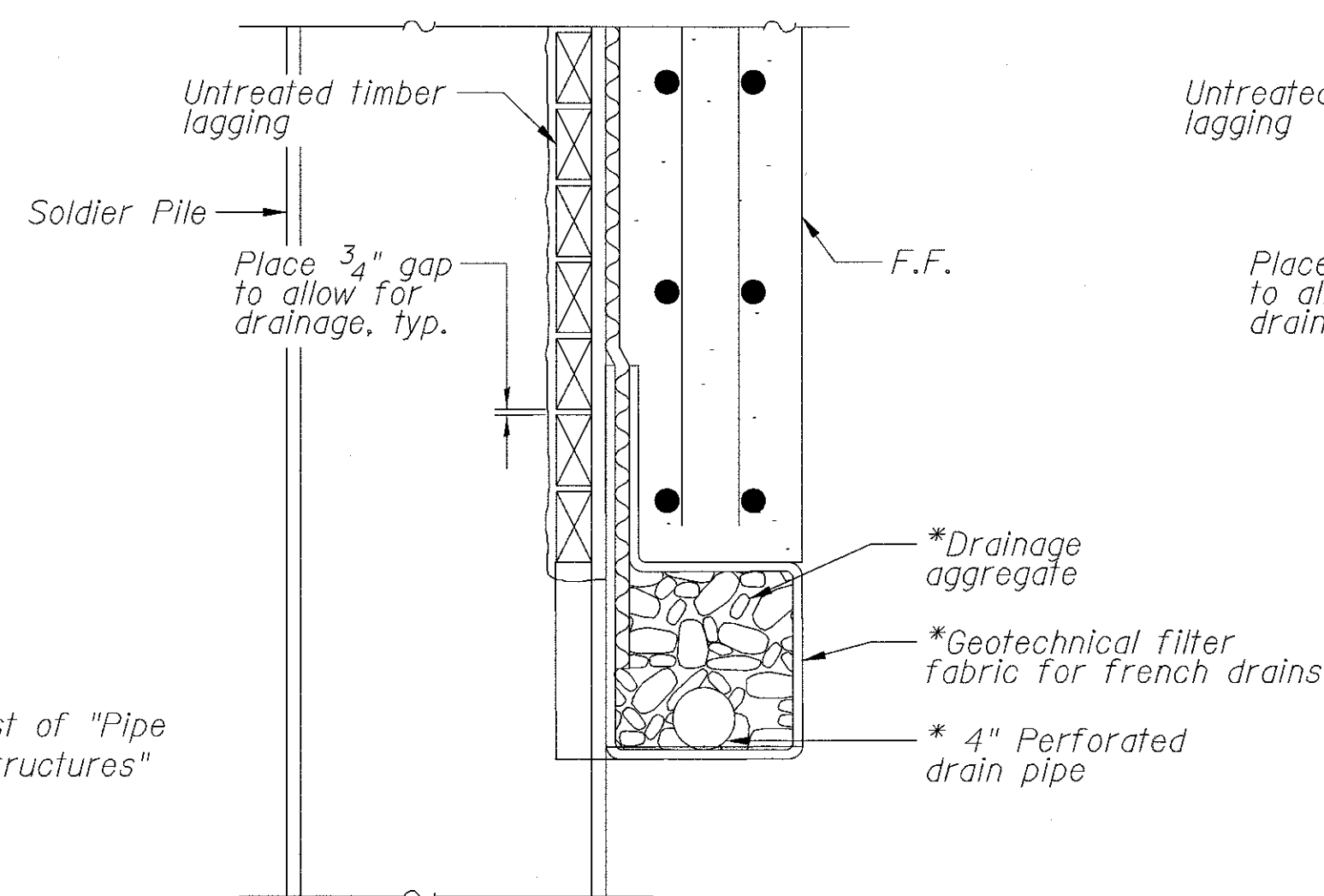
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL ELEVATIONS	
RETAINING WALL 62A	
SCALE:	SHEET 3 OF 7 SHEETS STA. TO STA.

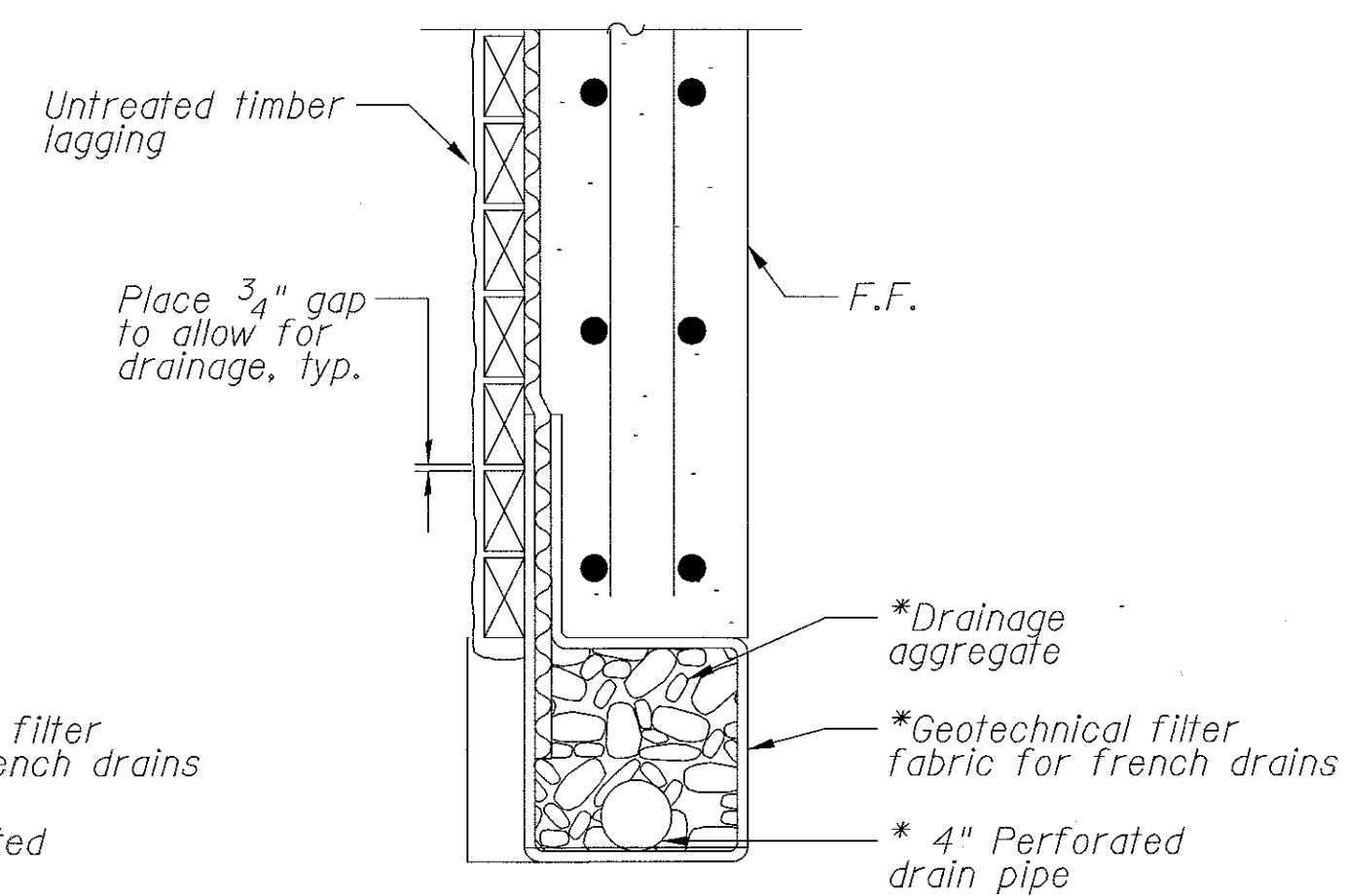
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	107
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				



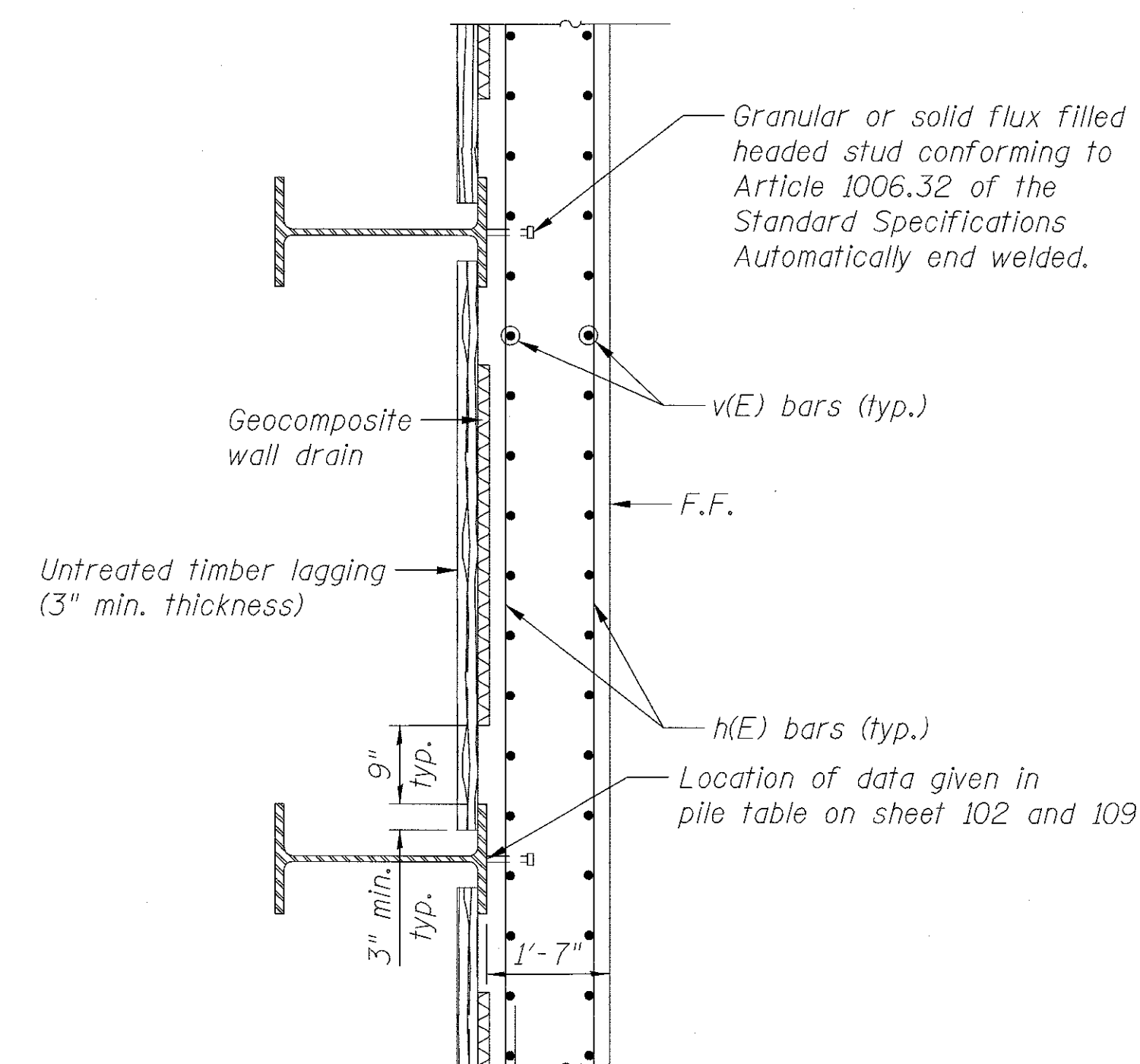




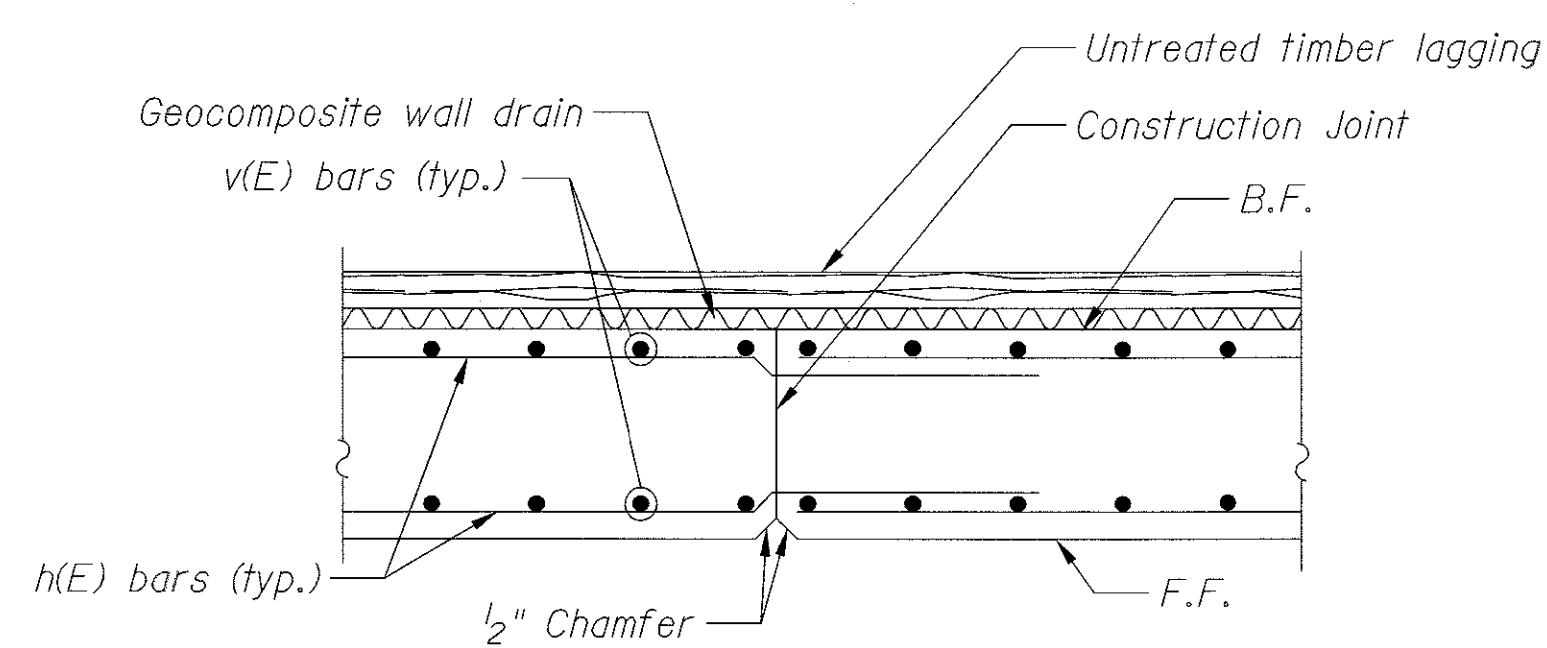
PIPE UNDERDRAIN DETAIL  
AT SOLDIER PILES



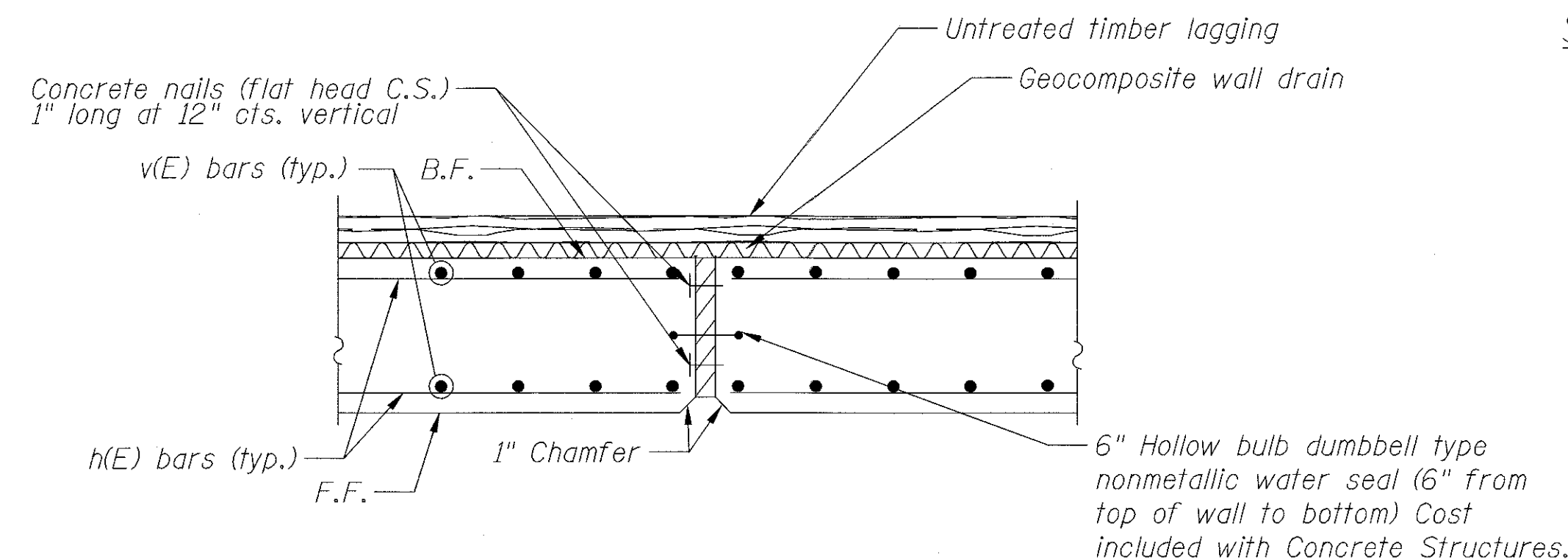
PIPE UNDERDRAIN DETAIL  
BETWEEN SOLDIER PILES



SECTION THRU DRIVEN  
SOLDIER PILE WALL



CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL

LEGEND

F.F. - Denotes front face  
B.F. - Denotes back face  
E.F. - Denotes each face

NOTES:

1. Provide outlet connections for pipe underdrain to adjacent catch basins at stations 827+00.16, 827+80.16, 828+55.00 and 829+40.00.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Also provide outlet connection for Wall 62B pipe underdrain to adjacent existing catch basins at station 829+17.83.

FILE NAME : 74754-ahc-struct-ap05.dgn



USER NAME = r.jiang	DESIGNED - JAR	REVISED -
	DRAWN - TMG	REVISED -
PLOT SCALE = 2.5000 "/ in.	CHECKED - JAR	REVISED -
PLOT DATE = 9/17/2017	DATE - 9/5/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL DETAILS  
RETAINING WALL 62A & 62B

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

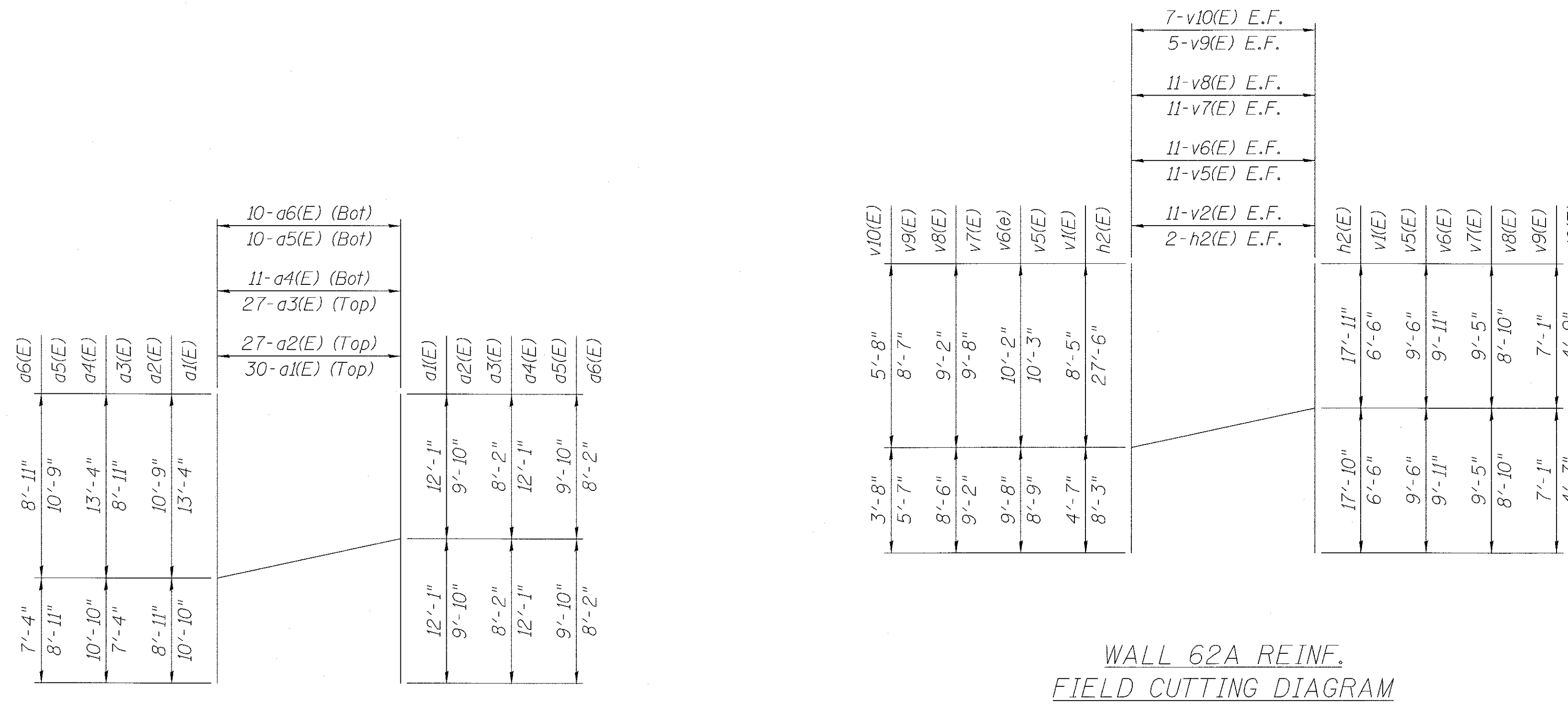
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	109
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				

WALL 62A  
BILL OF MATERIAL

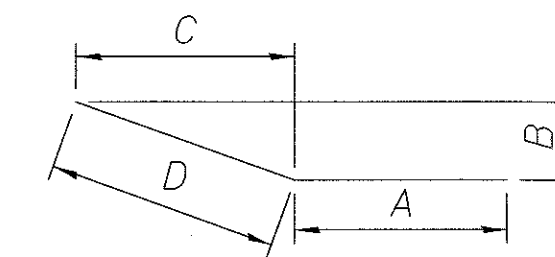
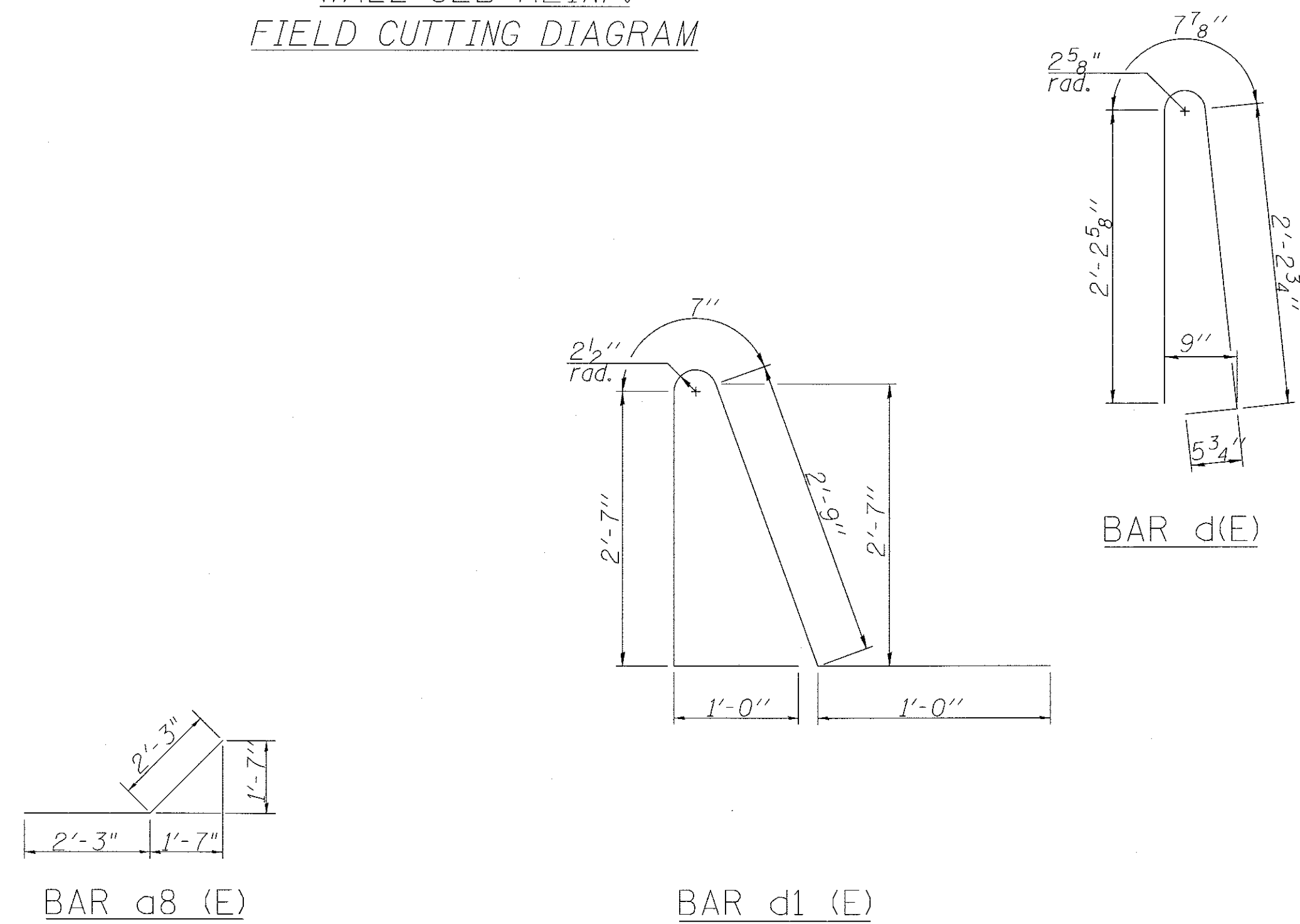
BAR	NO.	SIZE	LENGTH	SHAPE
h1(E)	82	#4	32'-6"	
h2(E)	4	#4	35'-9"	
h3(E)	44	#4	29'-1"	
h4(E)	2	#4	29'-7"	
h5(E)	2	#4	30'-6"	
h6(E)	2	#4	22'-4"	
h7(E)	2	#4	9'-9"	
h8(E)	2	#4	29'-4"	
h9(E)	6	#4	19'-5"	
h10(E)	2	#4	17'-6"	
h11(E)	2	#4	5'-4"	
h12(E)	2	#4	19'-8"	
b1(E)	2	#4	32'-6"	
b2(E)	2	#4	32'-3"	
b3(E)	2	#4	32'-1"	
b4(E)	2	#4	32'-0"	
v1(E)	22	#4	13'-0"	
v2(E)	42	#4	8'-4"	
v3(E)	42	#4	8'-6"	
v4(E)	42	#4	8'-7"	
v5(E)	22	#4	19'-0"	
v6(E)	22	#4	19'-10"	
v7(E)	22	#4	18'-10"	
v8(E)	22	#4	17'-8"	
v9(E)	22	#4	14'-2"	
v10(E)	14	#4	9'-4"	

WALL 62B  
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h21(E)	20	#4	43'-5"	
b21(E)	32	#5	43'-9"	
b22(E)	2	#5	37'-9"	
b23(E)	2	#5	12'-8"	
b24(E)	2	#5	31'-10"	
b25(E)	2	#5	13'-1"	
v21(E)	118	#4	4'-6"	
a1(E)	30	#6	24'-2"	
a2(E)	27	#6	19'-8"	
a3(E)	27	#6	16'-3"	
a4(E)	11	#5	24'-2"	
a5(E)	10	#5	19'-8"	
a6(E)	10	#5	16'-3"	
e1(E)	14	#4	14'-8"	
e2(E)	28	#4	13'-4"	
e3(E)	2	#8	45'-6"	
e4(E)	2	#4	43'-5"	
d1(E)	94	#5	5'-7"	
d11(E)	94	#5	7'-11"	
d21(E)	59	#5	4'-9"	
a7(E)	40	#6	7'-0"	
a8(E)	8	#6	4'-6"	



WALL 62B REINF. FIELD CUTTING DIAGRAM



BAR	A	B	C	D
b1(E)	29'-6"	5"	2'-11"	3'-0"
b2(E)	29'-6"	2"	2'-9"	2'-9"
b3(E)	29'-4"	2"	2'-9"	2'-9"
b4(E)	29'-3"	3"	2'-9"	2'-9"

BENT BAR DIAGRAM

LEGEND

F.F. - Denotes front face  
B.F. - Denotes back face  
E.F. - Denotes each face

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.

FILE NAME = 74754-ghr-struct-asp26.dgn



USER NAME = rjiong  
DRAWN = TMG  
CHECKED = JAR  
DATE = 9/1/2017

DESIGNED - JAR  
DRAWN - TMG  
CHECKED - JAR  
DATE - 9/5/2017

REVISED -  
REVISED -  
REVISED -  
REVISED -

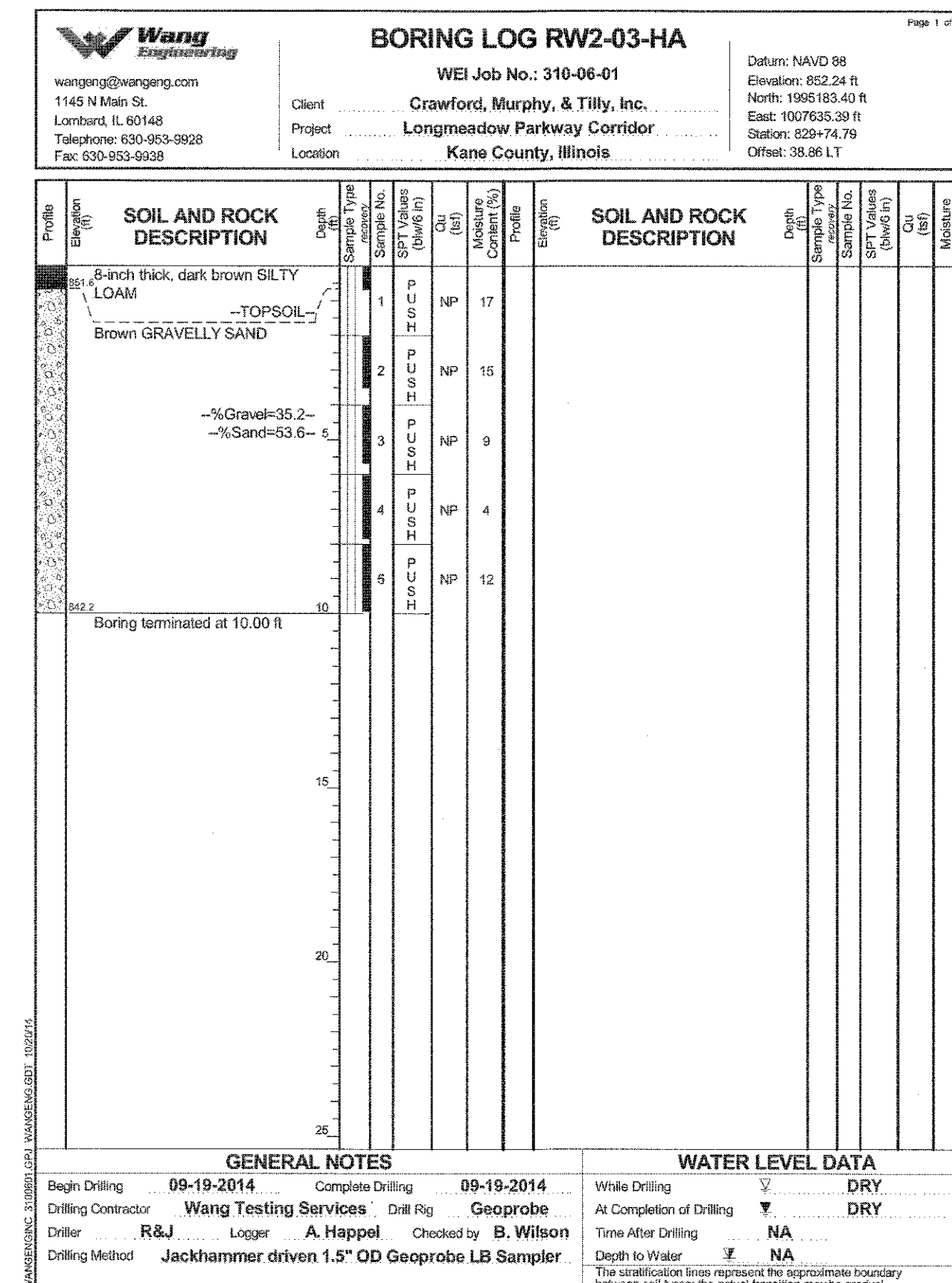
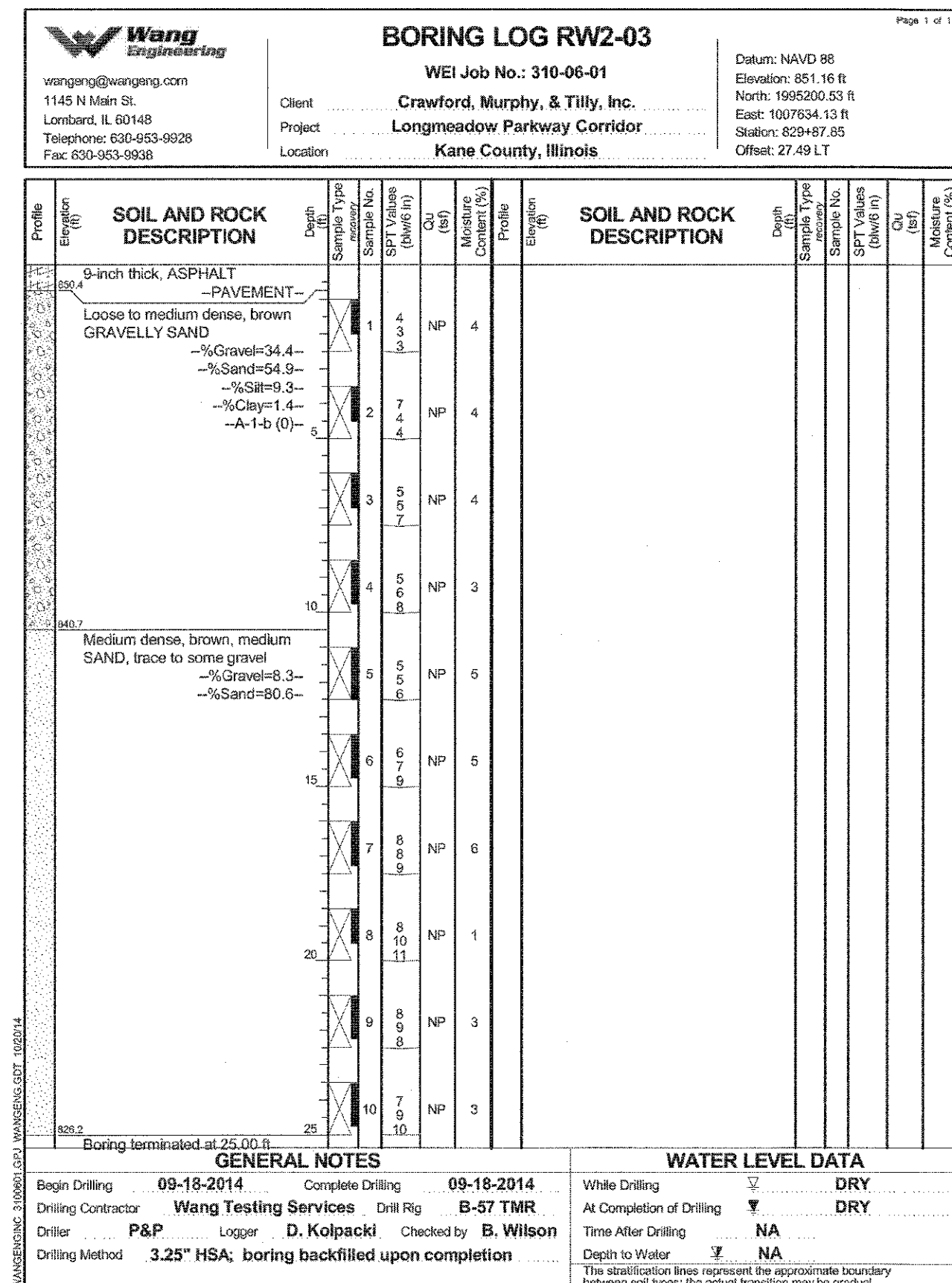
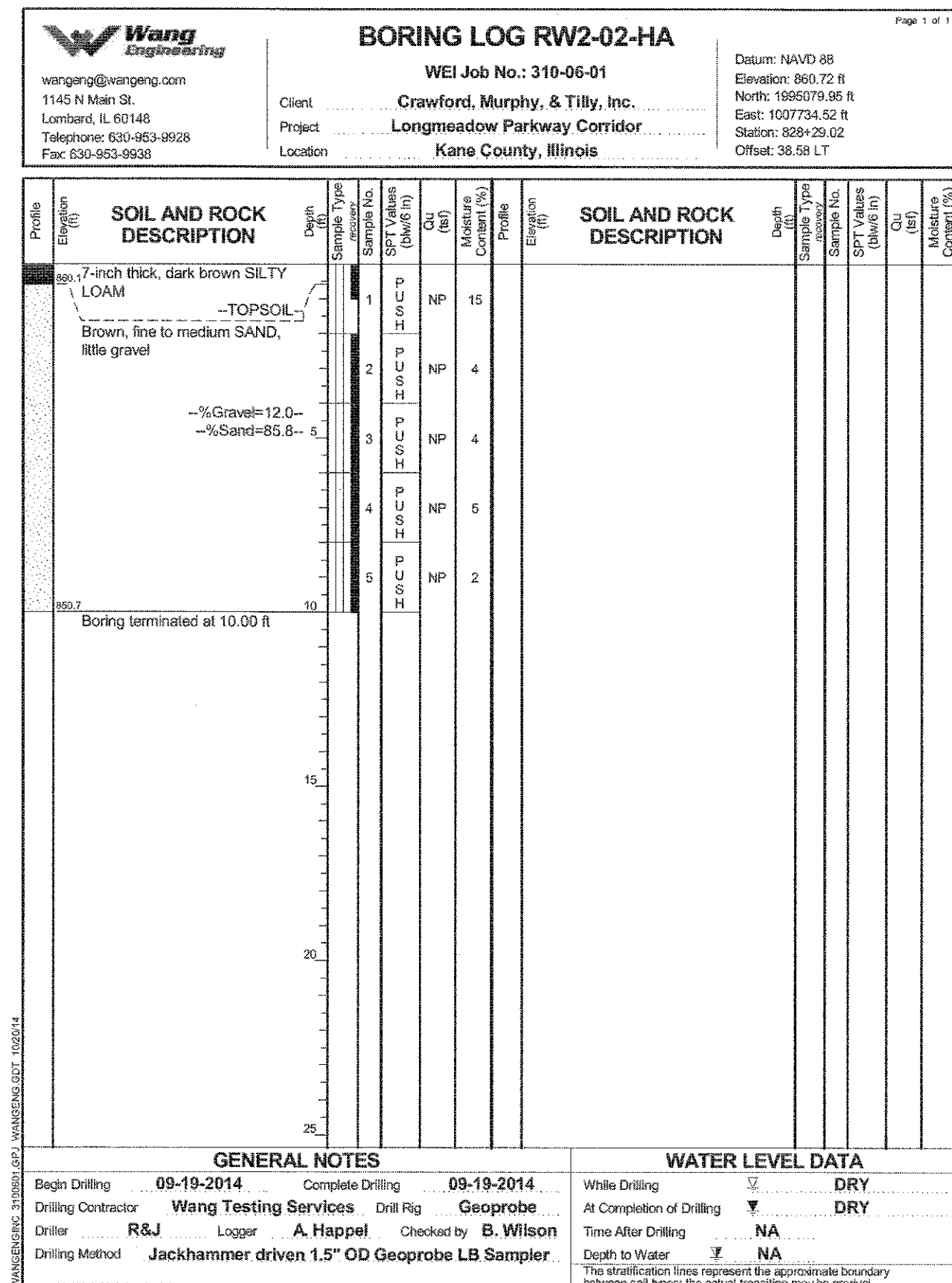
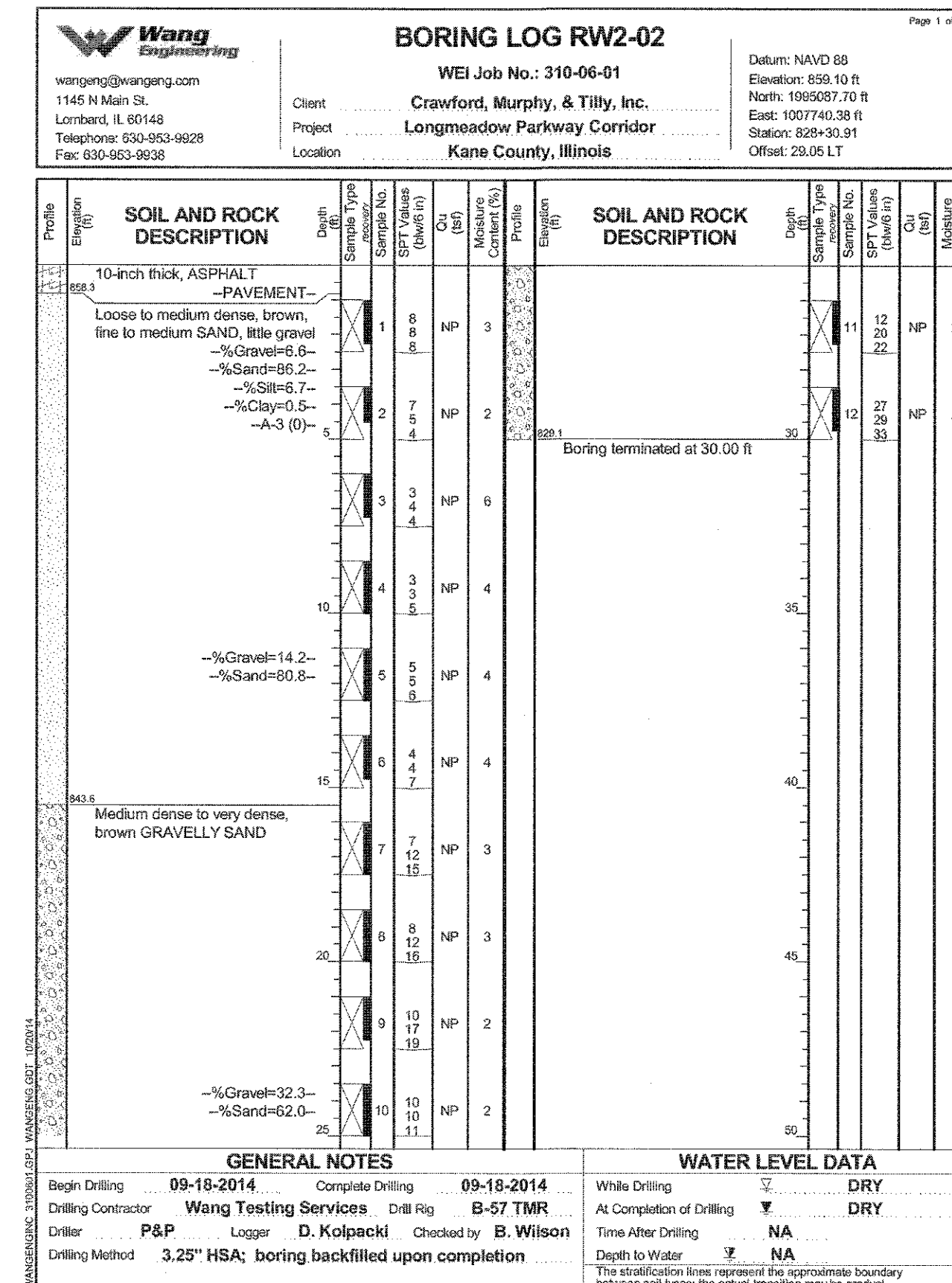
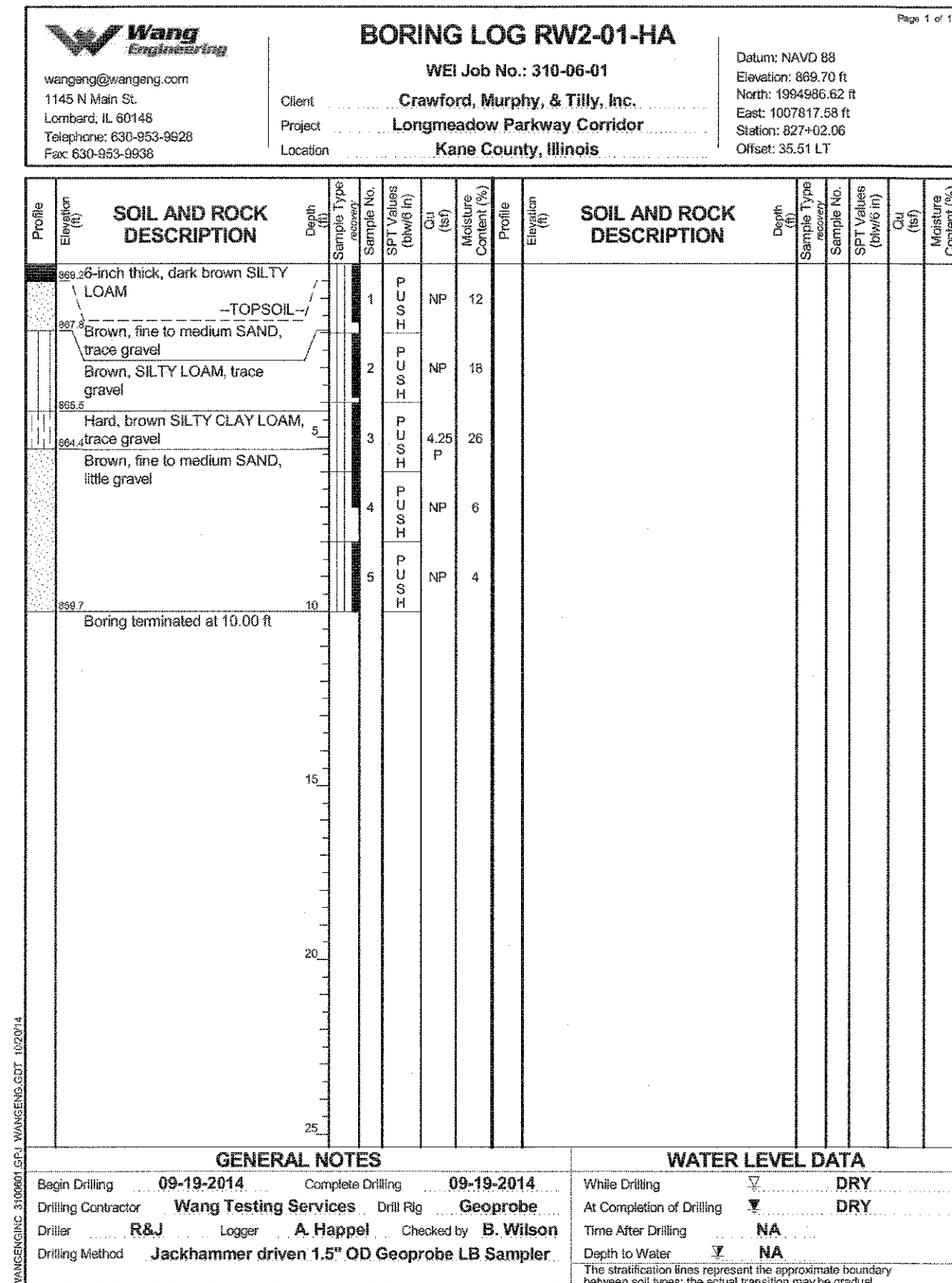
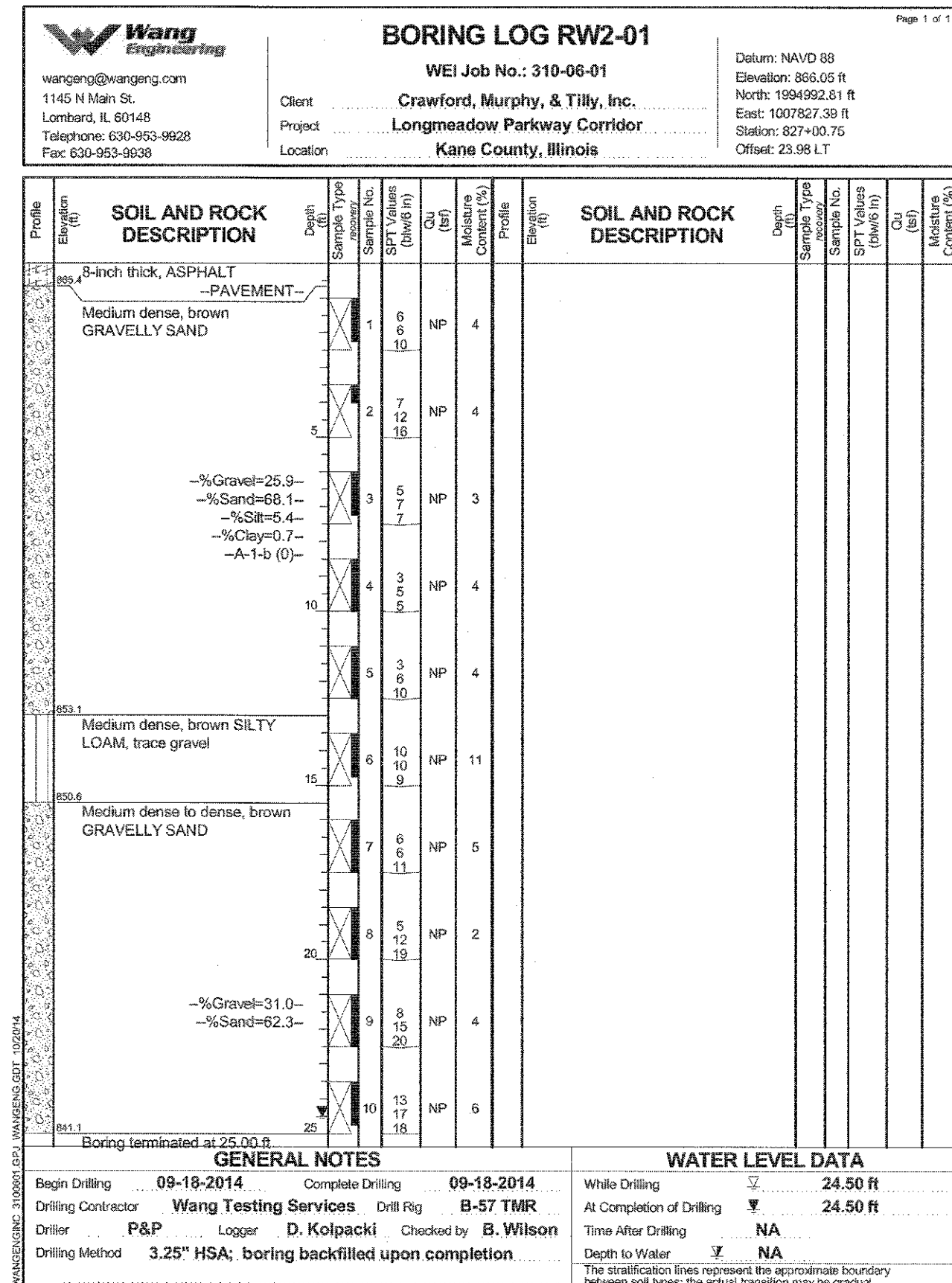
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

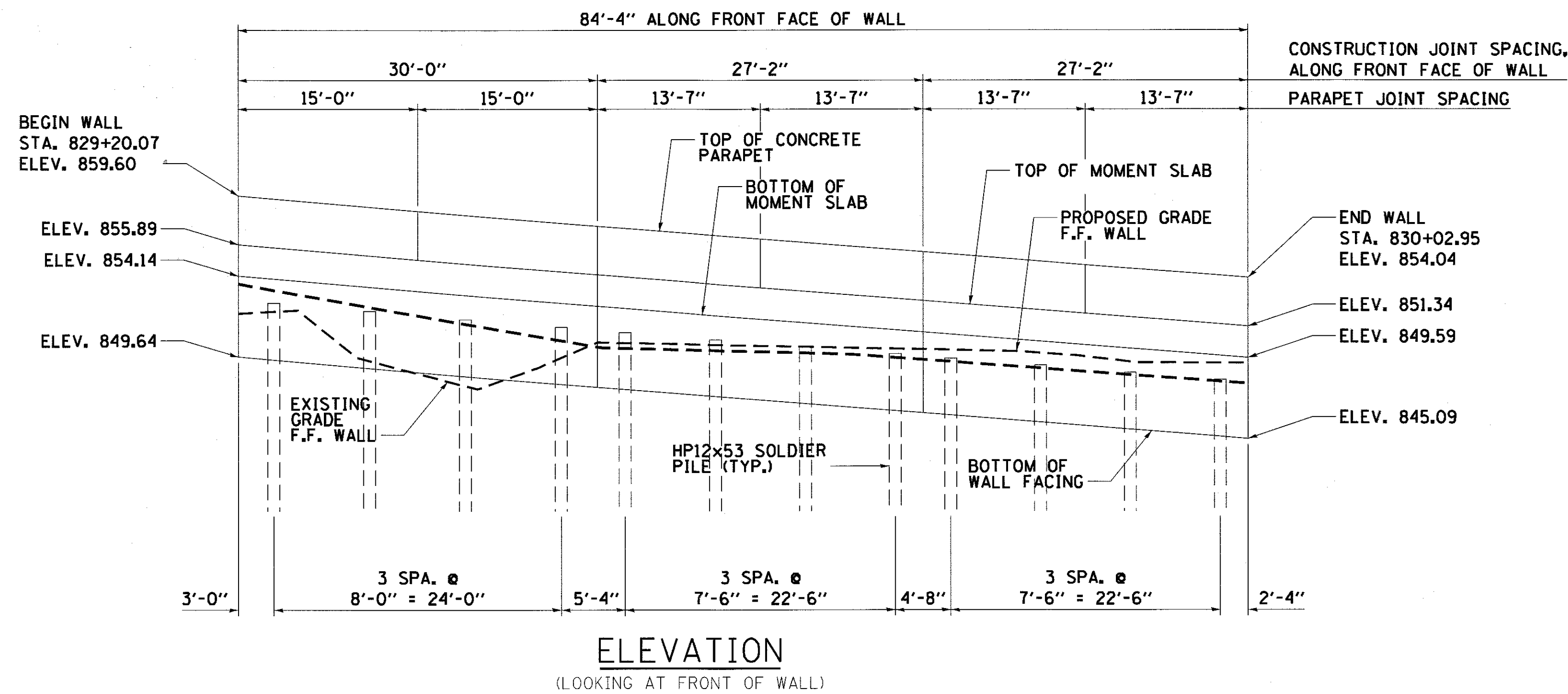
REINFORCEMENT DETAILS  
RETAINING WALL 62A & 62B

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

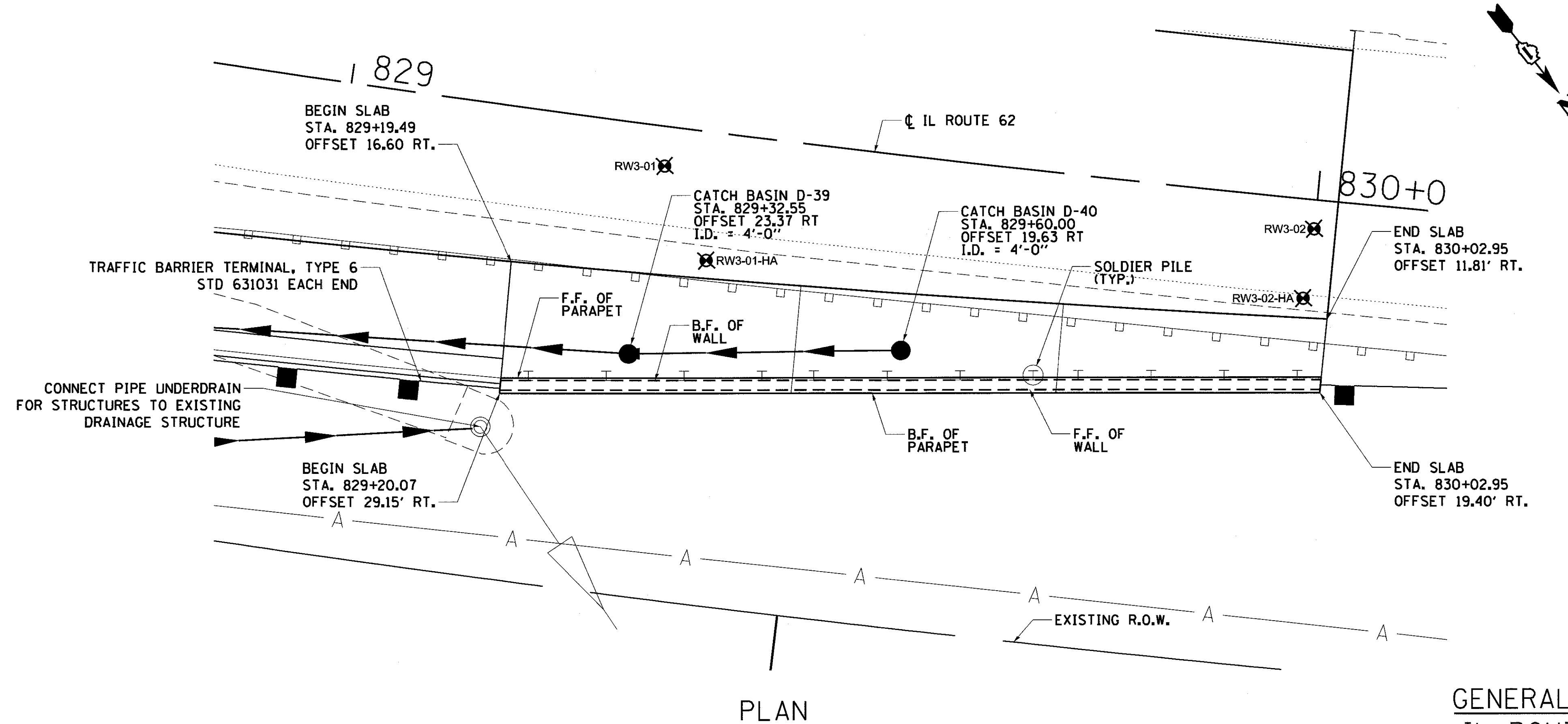
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	110
				CONTRACT NO. 61D16
ILLINOIS FED. AID PROJECT				







**ELEVATION**  
(LOOKING AT FRONT OF WALL)



**PLAN**

**GENERAL PLAN**  
**IL ROUTE 62**  
**SOLDIER PILE WALL**  
**STATION 829+20.07 TO 830+02.95**

**LEGEND**

F.F. - DENOTES FRONT FACE  
B.F. - DENOTES BACK FACE  
E.F. - DENOTES EACH FACE

**NOTES:**

1. STATIONS, OFFSETS AND DIMENSIONS ARE MEASURED AT FRONT FACE OF WALL.
2. ALL EXPOSED CORNERS SHALL HAVE A 1" CHAMFER. FOR GENERAL NOTES, SEE SHEET 3 AND FOR ILLINOIS ROUTE 62 PROFILE SEE SHEET 33.
3. FOR TYPICAL WALL DETAILS SEE SHEET 109.
4. FOR STORM DRAIN DETAILS SEE DRAINAGE DRAWINGS.

**HIGHWAY CLASSIFICATION**

Designated Route: ILLINOIS ROUTE 62  
Functional Class: OTHER PRINCIPAL ARTERIAL  
Current ADT: 18,200  
Future ADT: 31,000  
Future DHV: 2,550  
ADTT%: 4%  
Design Speed: 60 MPH  
Posted Speed: 55 MPH

**DESIGN SPECIFICATIONS**

AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**

REINFORCED CONCRETE,  $f'_c = 3,500$  psi  
REINFORCEMENT,  $f_y = 60,000$  psi  
STRUCTURAL STEEL AASHTO M270 GRADE 36 (SOLDIER PILES)

FILE NAME = 74754-ah-struct-spacing.dwg



USER NAME = r.jiang	DESIGNED - TMG	REVISED -
DRAWN - TMG	REVISIONS -	
PLLOT SCALE = 40.0000' / 1" =	CHECKED - JAR	REVISED -
PLLOT DATE = 9/17/2017	DATE - 9/5/2017	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**RETAINING WALL 62B**

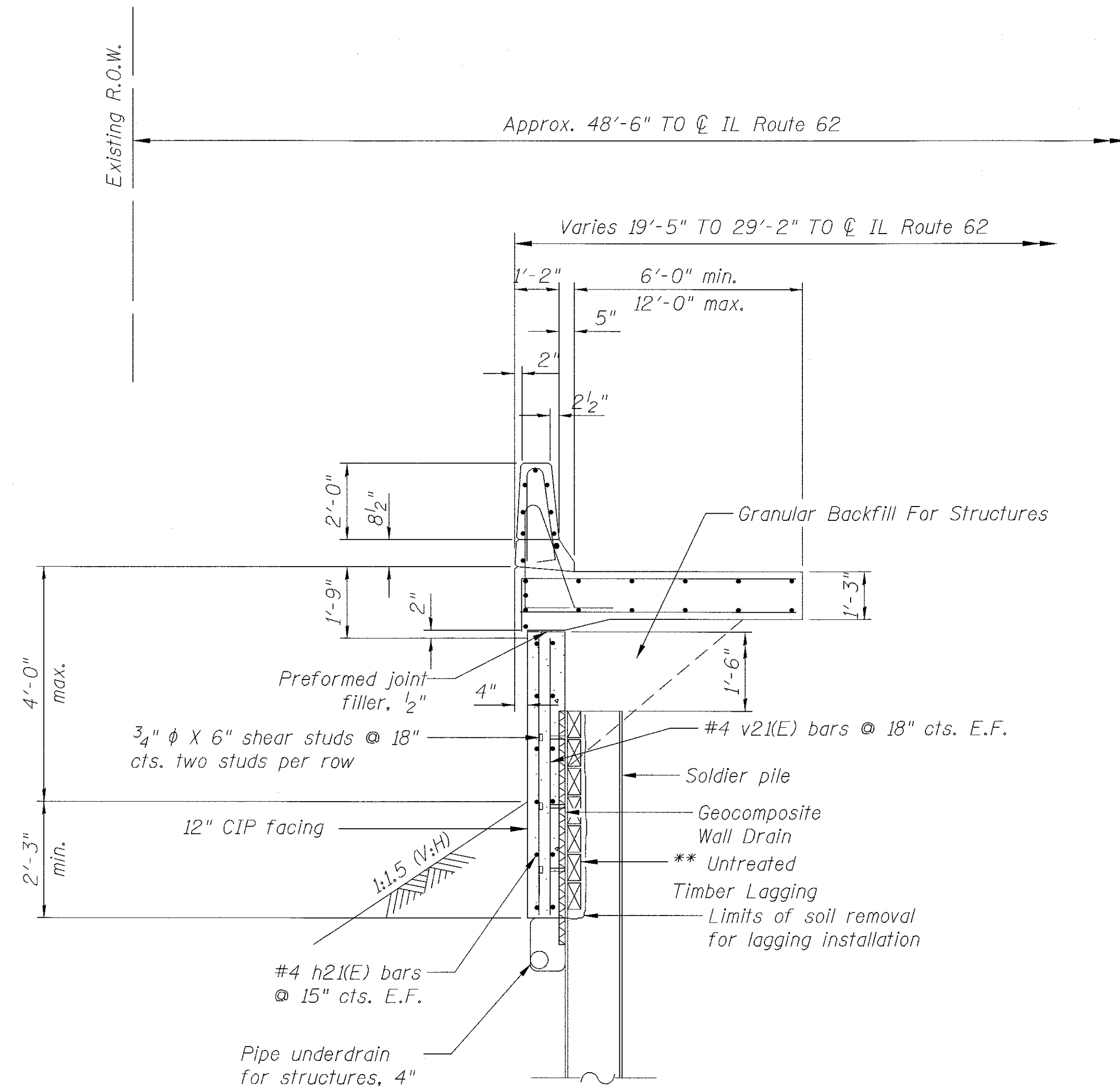
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	112
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

RETAINING WALL 62B  
SHEET NO.

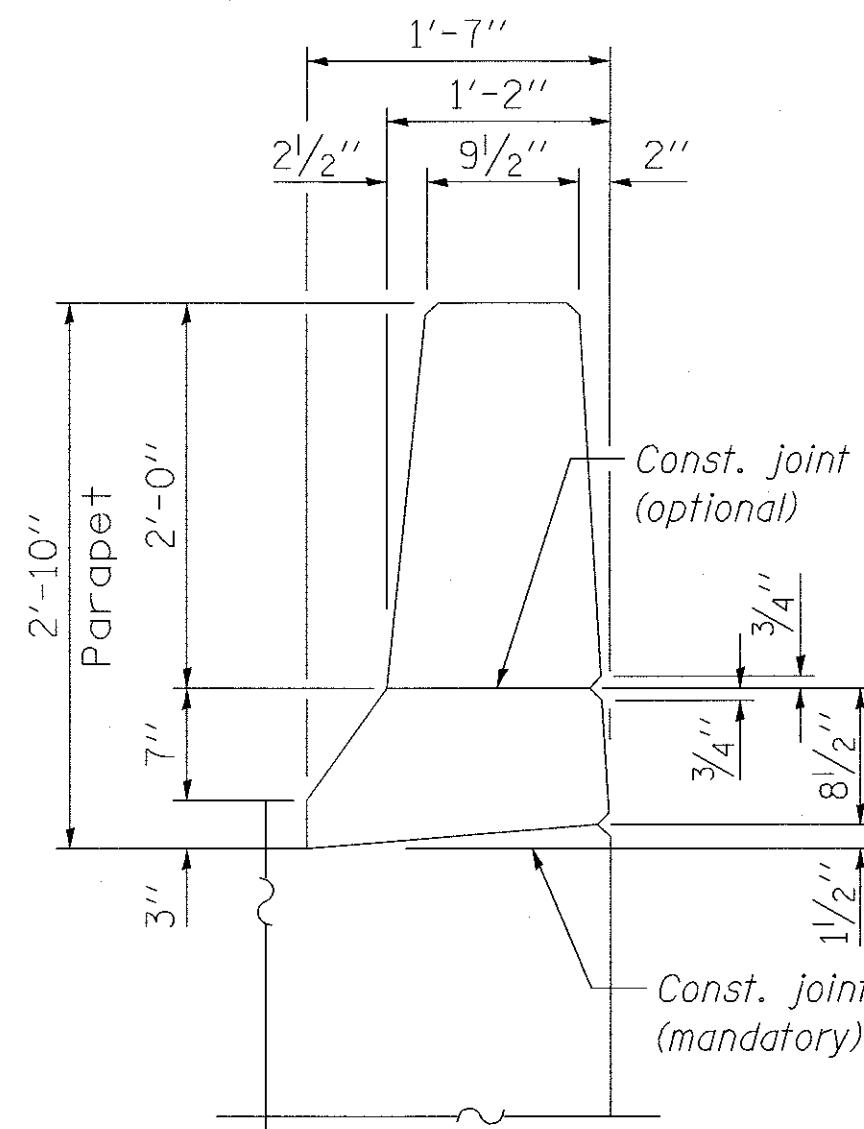
- 109 GENERAL PLAN AND ELEVATION
- 110 SECTIONS AND DETAILS
- 111 WALL ELEVATION AND MOMENT SLAB PLAN
- 112 BORING LOGS
- 106 SOLDIER PILE WALL DETAILS
- 107 REINFORCEMENT DETAILS



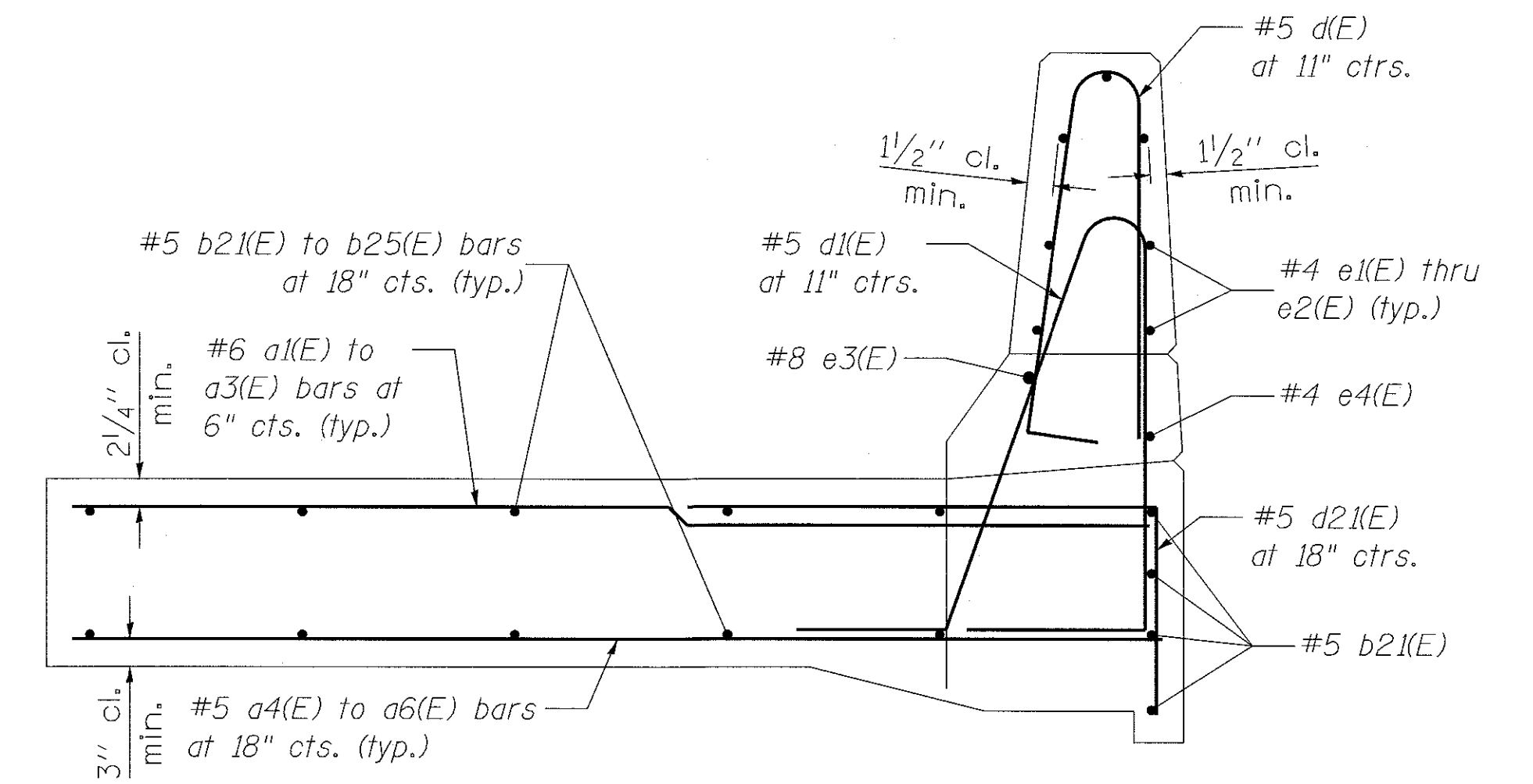
SOLDIER PILE WALL  
TYPICAL SECTION

NOTES:

1. All exposed corners shall have a 1" chamfer.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. For General Notes see Sheet 3 and for Illinois Route 62 Profile see sheet 7.
4. \*\* The contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

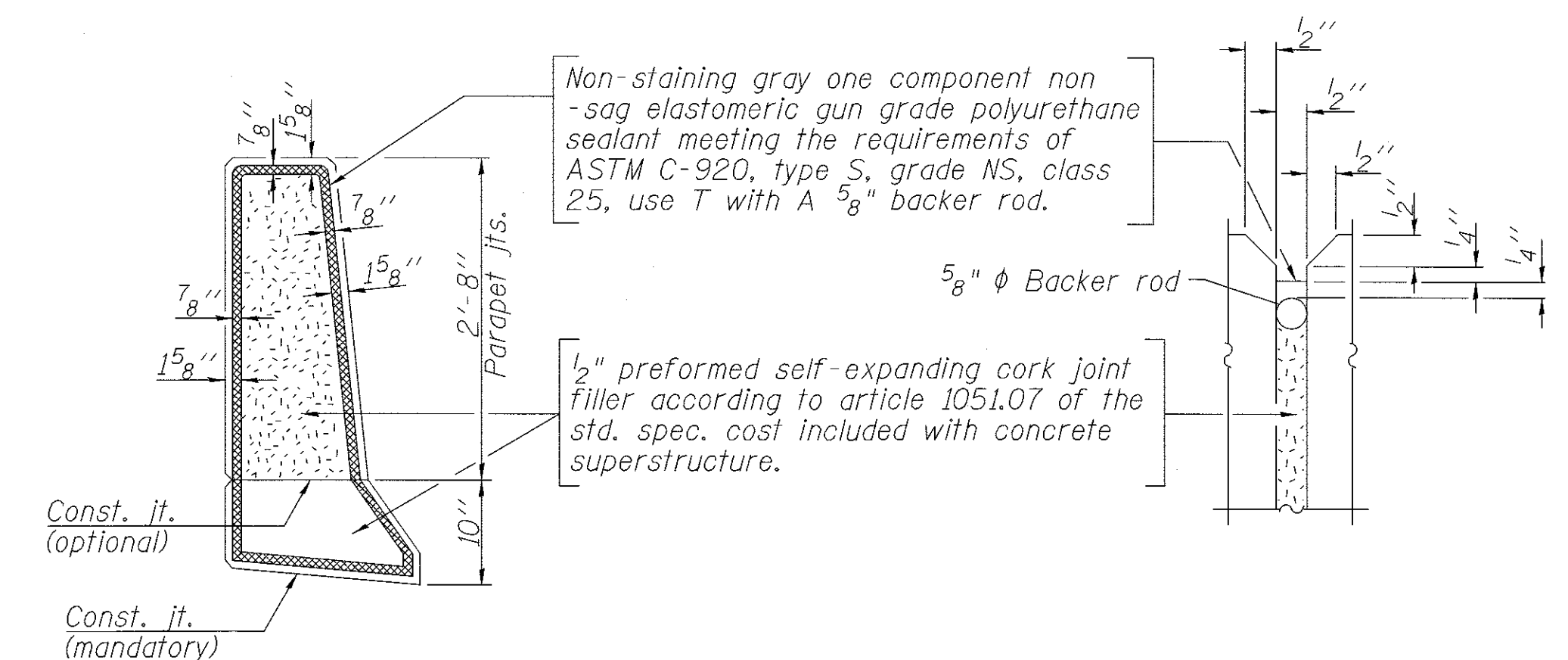


34" F SHAPE  
CONCRETE PARAPET  
CONFIGURATION



MOMENT SLAB  
REINFORCEMENT

Pile Number	Pile CL Station	Pile CL Offset	Top of Pile Elevation	Pile Length (FT)	# Shear Studs
1	829+22.77	26.95	852.63	30	3
2	829+30.61	25.90	852.17	30	3
3	829+38.45	24.88	851.72	30	3
4	829+46.31	23.89	851.28	30	3
5	829+51.55	23.25	851.00	30	3
6	829+58.92	22.34	850.60	30	3
7	829+66.30	21.50	850.20	30	3
8	829+73.69	20.66	849.81	30	3
9	829+78.28	20.15	849.56	30	3
10	829+85.67	19.35	849.17	30	3
11	829+93.07	18.57	848.77	30	3
12	830+00.47	17.82	848.38	30	3



PARAPET JOINT DETAILS

BILL OF MATERIALS		
ITEM	UNIT	TOTAL QUANTITY
STRUCTURE EXCAVATION	CU YD	37
CONCRETE STRUCTURES	CU YD	15
CONCRETE SUPERSTRUCTURE	CU YD	52
SHEAR STUD CONNECTORS	EACH	72
REINFORCEMENT BARS, EPOXY COATED	POUND	8560
GEOCOMPOSITE WALL DRAIN	SQ YD	22
UNTREATED TIMBER LAGGING	SQ FT	248
FURNISH SOLDIER PILES (HP SECTION)	FOOT	360
DRIVING SOLDIER PILES	FOOT	360
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	100
PROTECTIVE COAT	SQ YD	117

LEGEND

- F.F. - Denotes front face
- B.F. - Denotes back face
- E.F. - Denotes each face

FILE NAME = 74754-shc-ep-uc-tp-pp-02.dgn



**LEGEND**

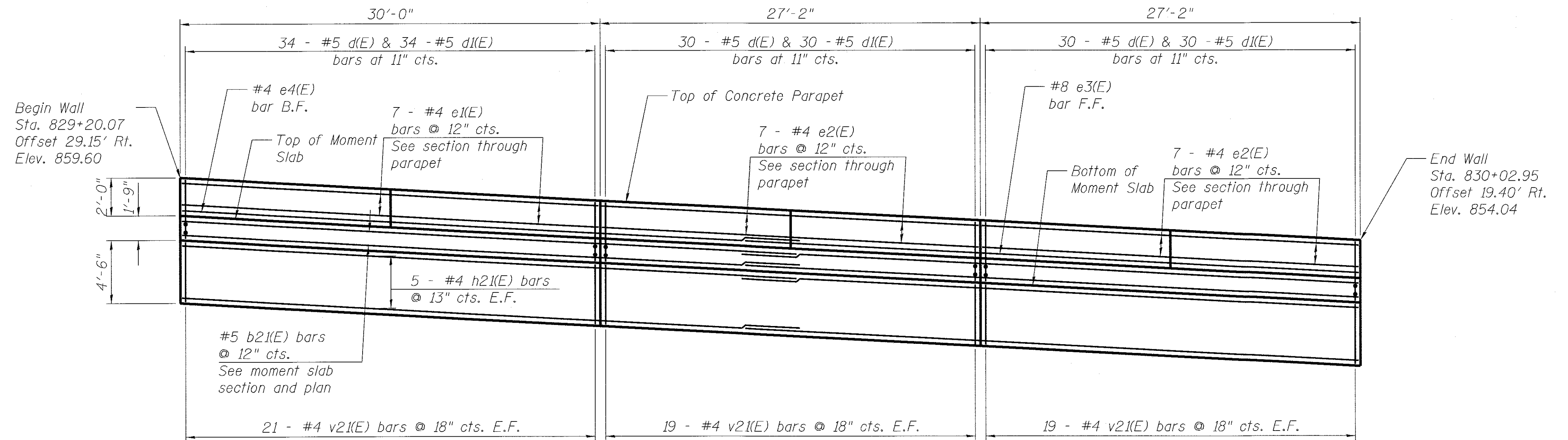
F.F. - Denotes front face  
 B.F. - Denotes back face  
 E.F. - Denotes each face  
 T.O.F. - Top of footing  
 B.O.F. - Bottom of footing  
 U.N.O. - Unless noted otherwise

**BAR LAPS**

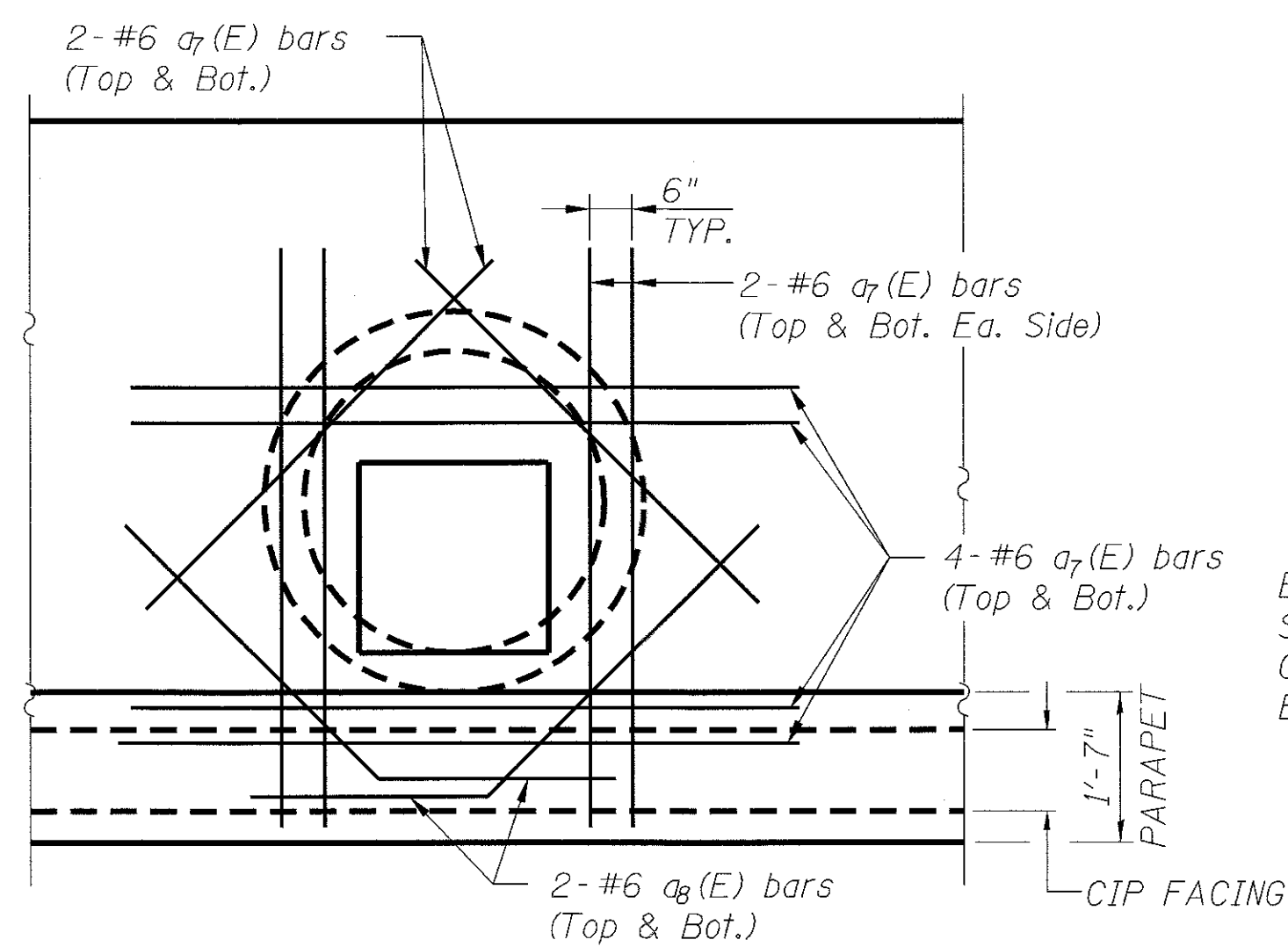
#4 BARS - 2'-7"  
 #5 BARS - 3'-3"  
 #6 BARS - 3'-10"

**NOTES:**

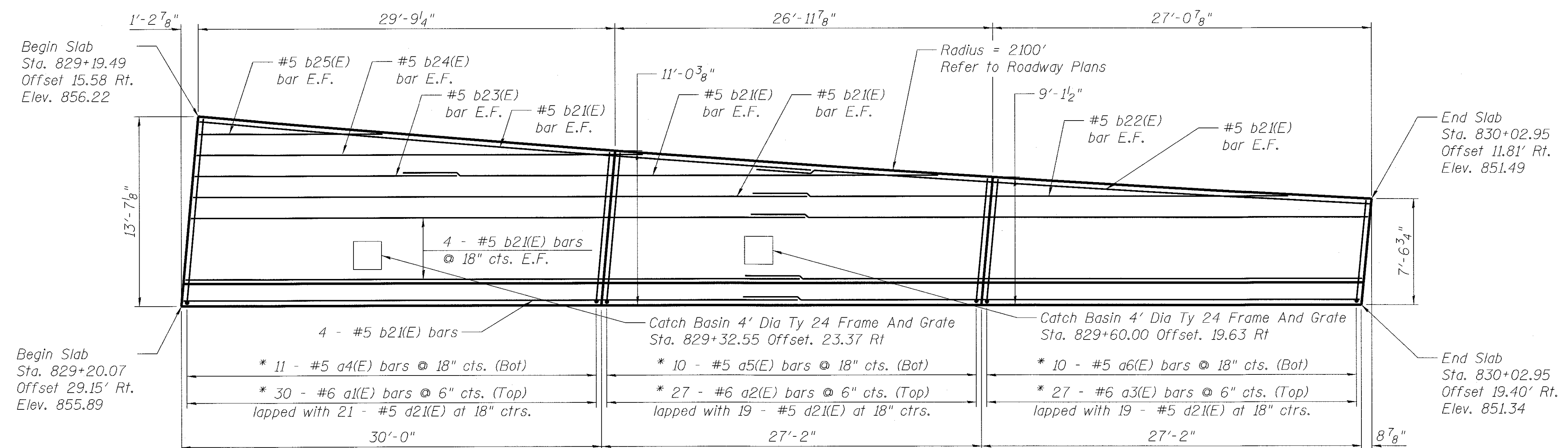
- \* See Field Cutting Diagram on sheet 107.
- Reinforcement bars designated (E) shall be epoxy coated.
- See bar reinforcing bill of material on sheet 107.
- See General Plan and Elevation Sheet 109.
- Dimensions are measured at front face of wall in elevation.



**WALL ELEVATION**



**PLAN AT CATCH BASIN**



**MOMENT SLAB PLAN**

FILE NAME = 74754-shr-er-uo1-sp.chg.dwg



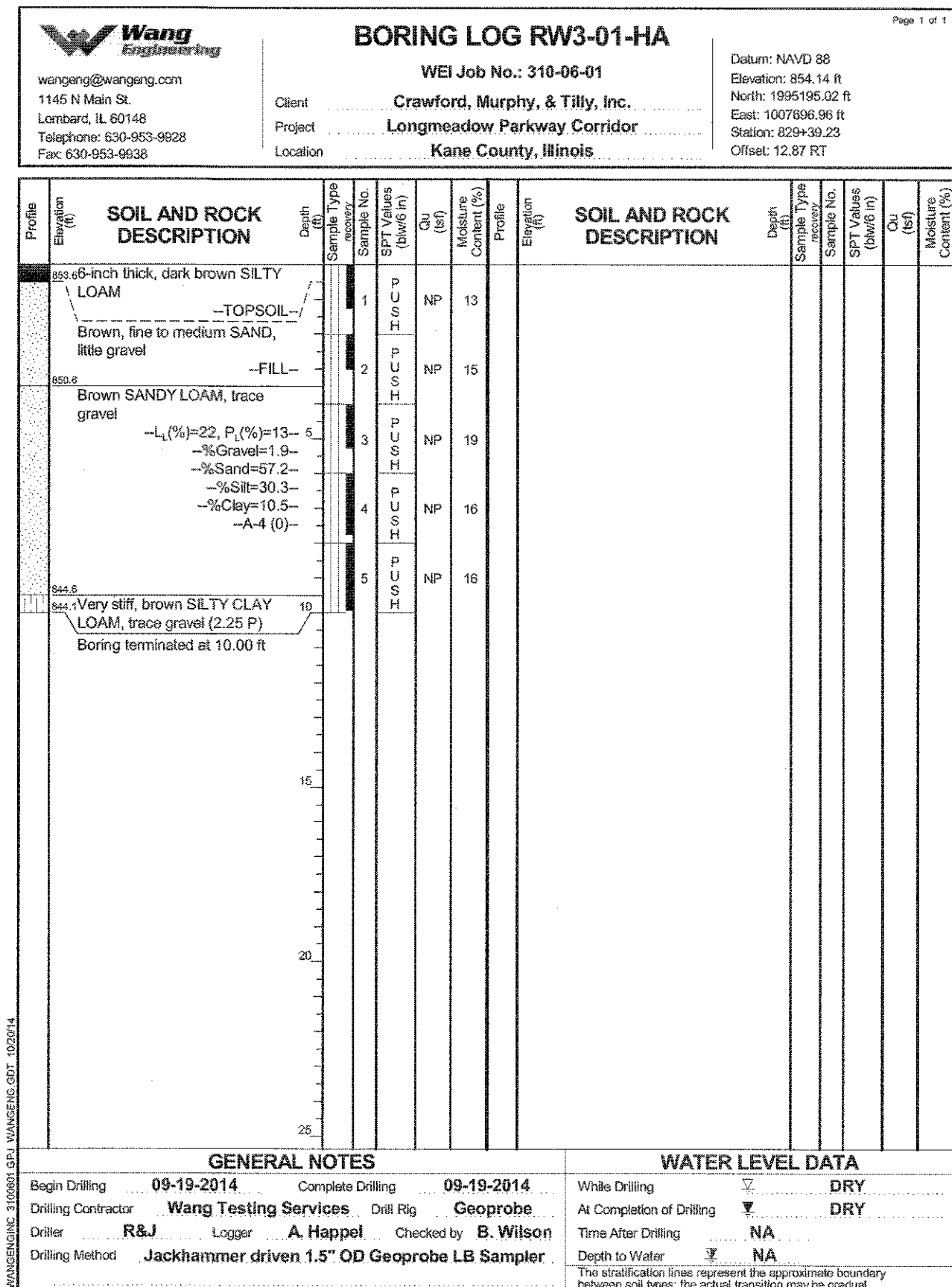
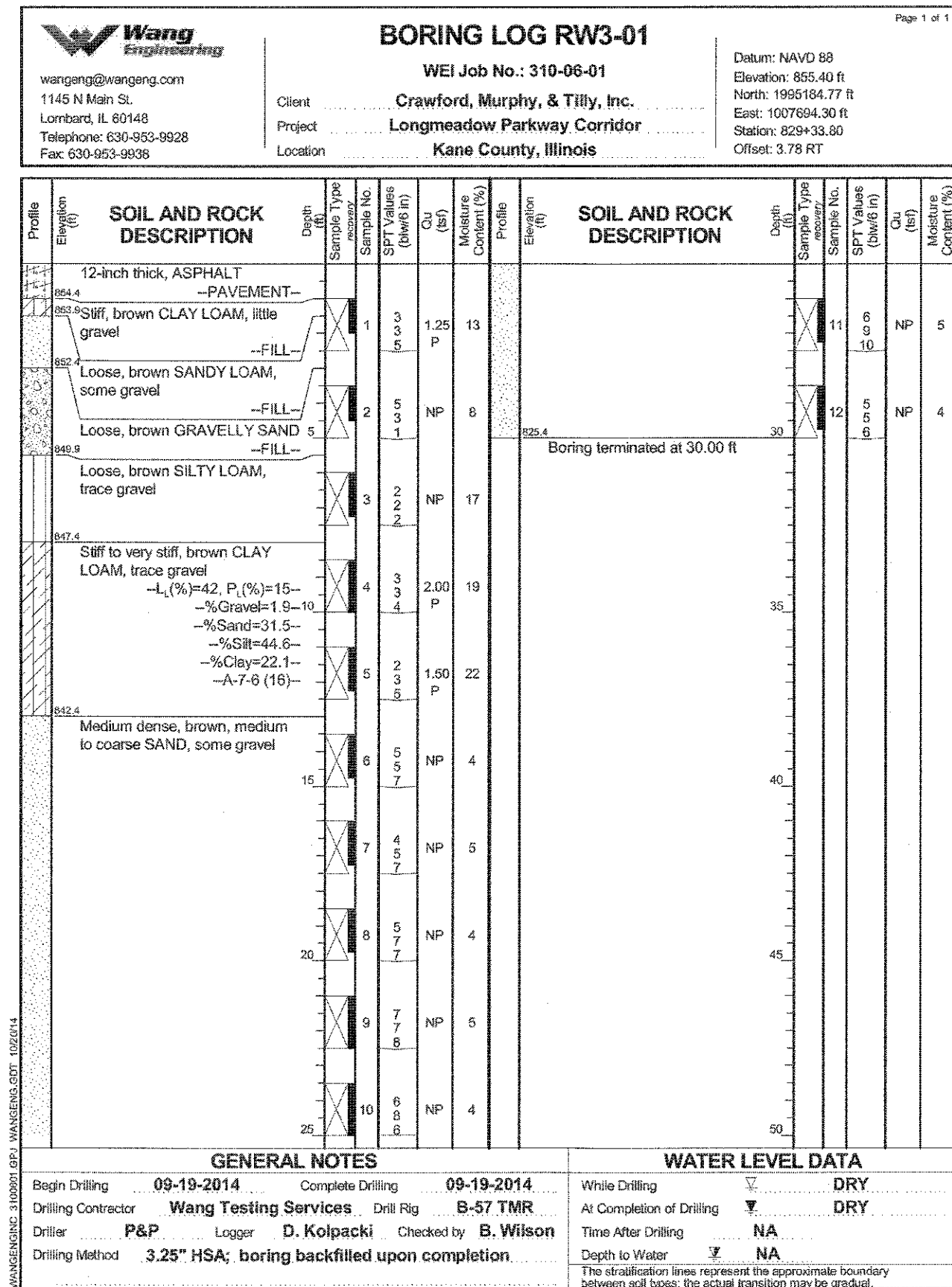
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DRAWN - TMG	REVISED -	
CHECKED - JAR	REVISED -	
DATE - 9/5/2017	REVISED -	

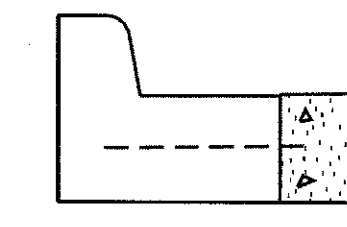
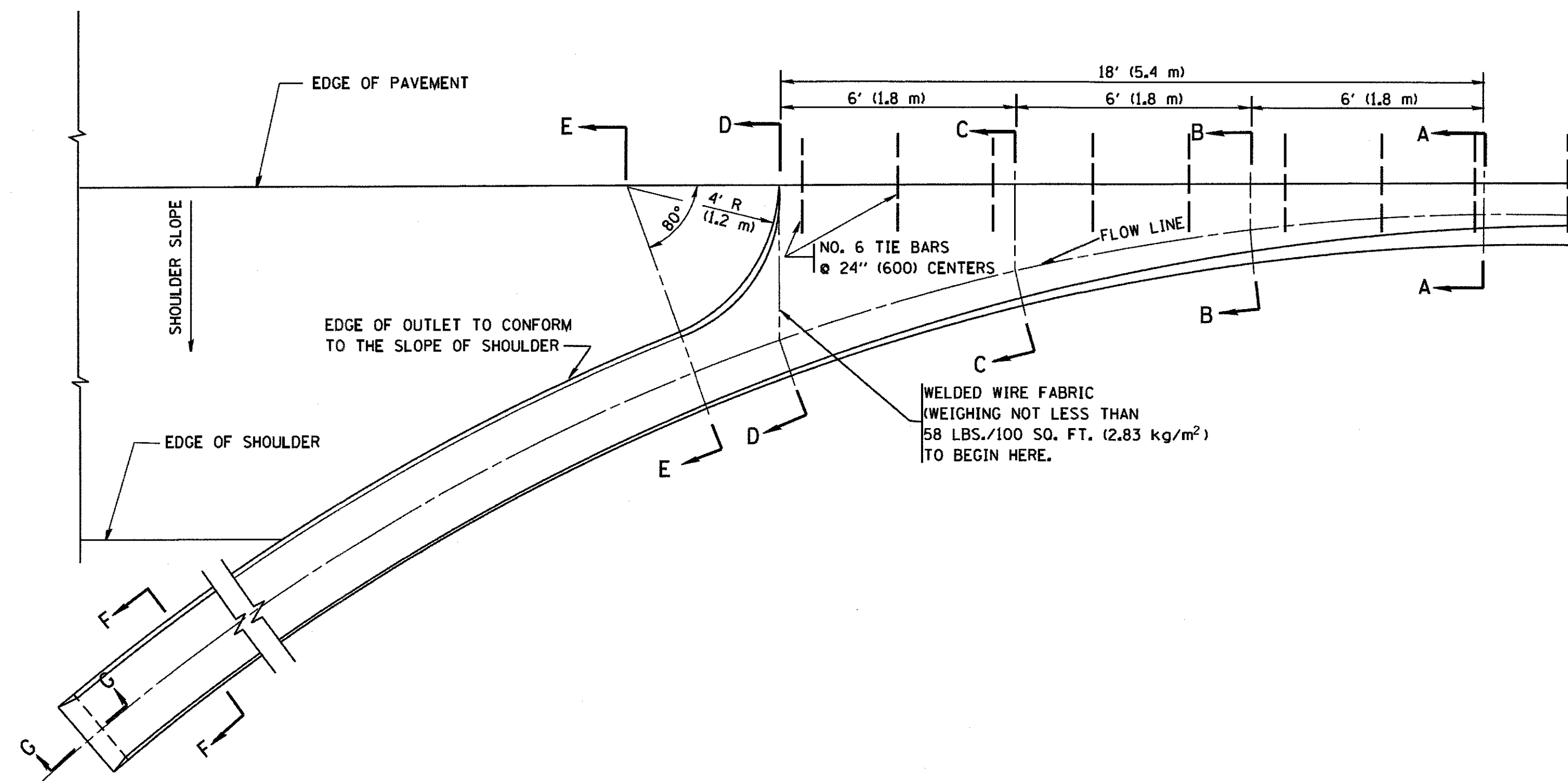
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WALL ELEVATION AND MOMENT SLAB PLAN  
 RETAINING WALL 62B**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

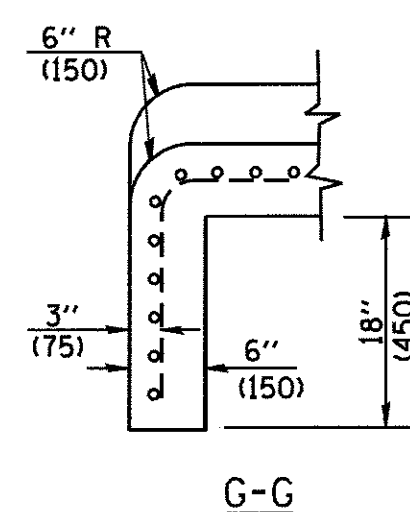
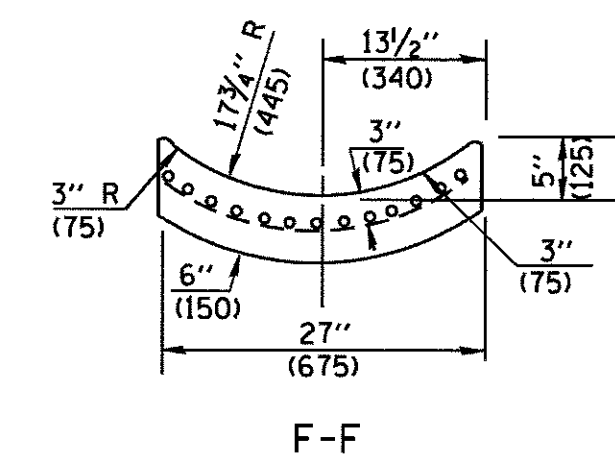
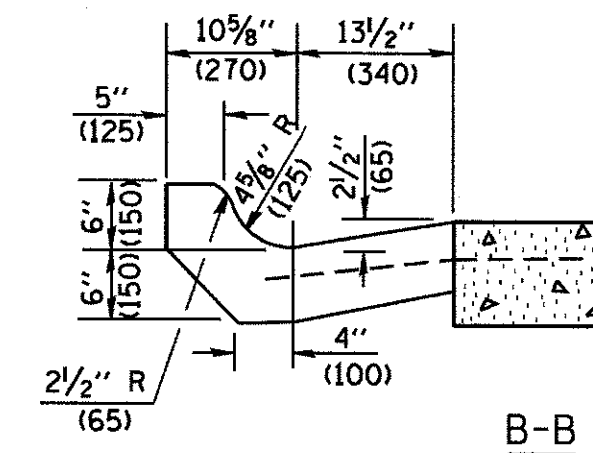
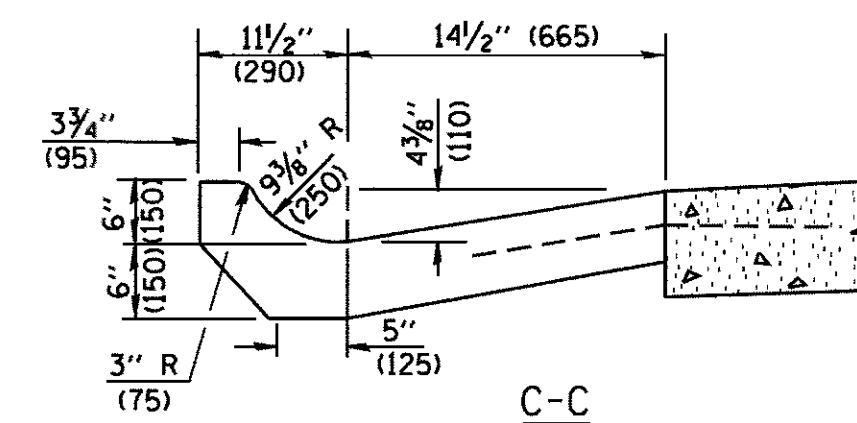
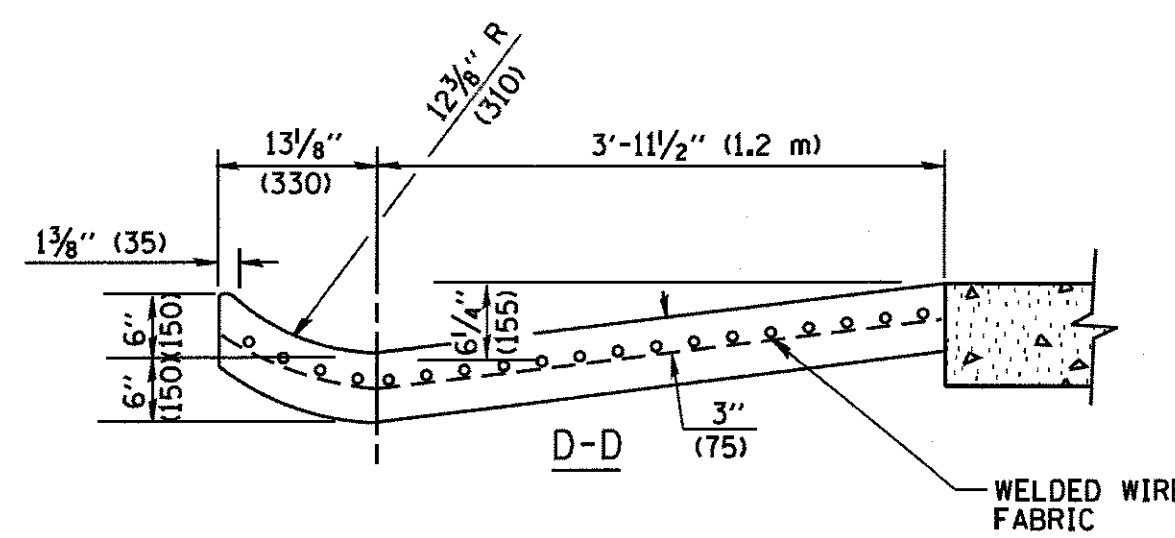
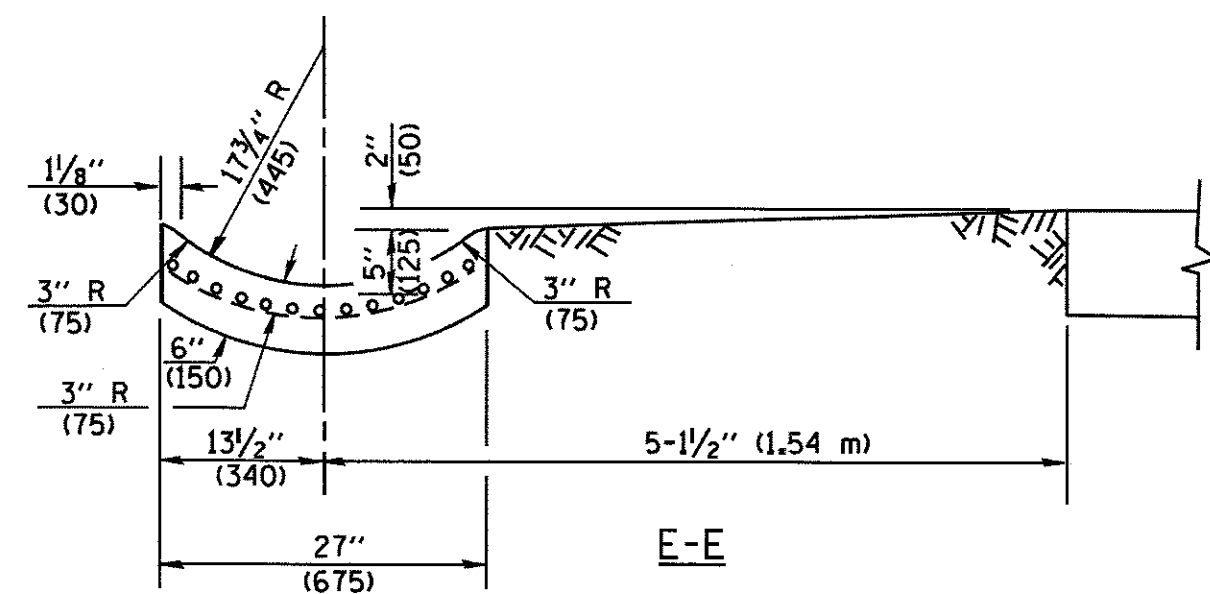
F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 114
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				





A-A \*

\* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



**GENERAL NOTES**

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

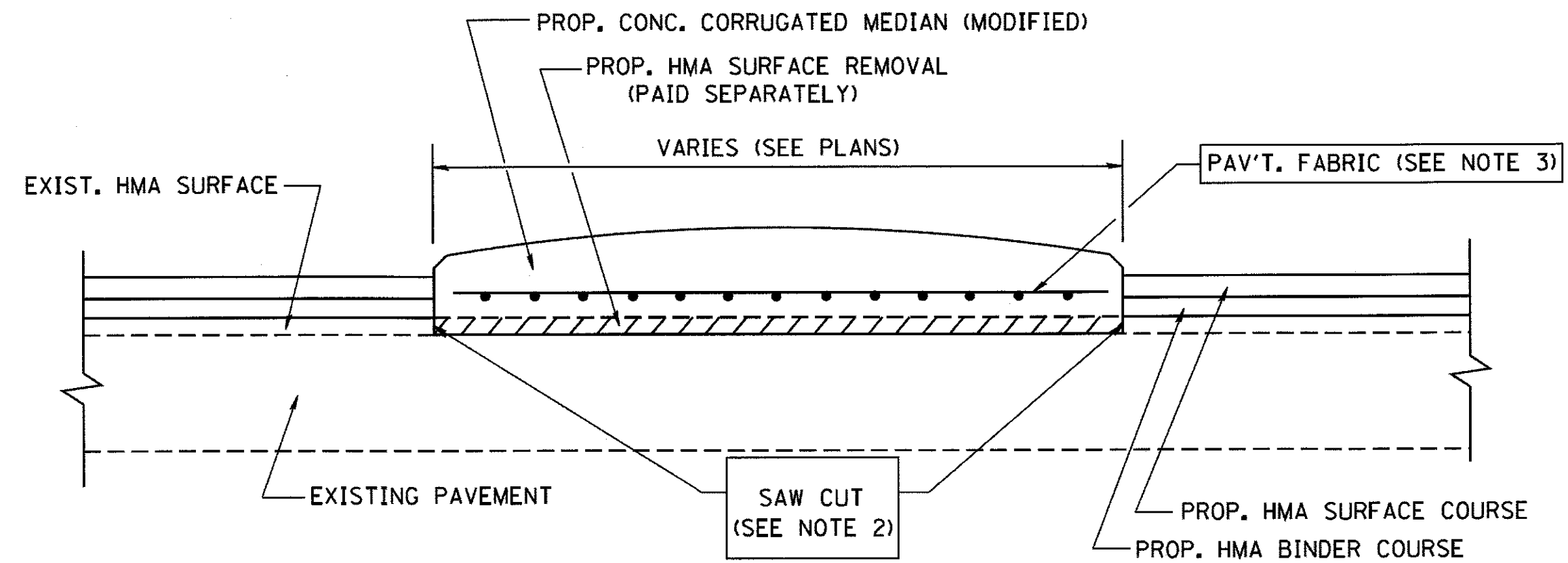
**QUANTITIES**

FOR SECTION A-A TO E-E AND CURTAIN WALL = 1.25 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.  
1.27 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.  
FOR SECTION F-F = 0.045 CU. YDS. (0.03 m<sup>3</sup>) CLASS SI CONCRETE PER FT. (m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\bd03.dgn	USER NAME = geglienobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>OUTLET FOR CONCRETE CURB AND GUTTER</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94					2298	13-00215-20-BR	KANE	177	116
	PLOT DATE = 1/4/2008	DATE - 08-04-86	REVISED - E. GOMEZ 12-21-00		REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD600-01 (BD-03)	CONTRACT NO.	61D16
										FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	

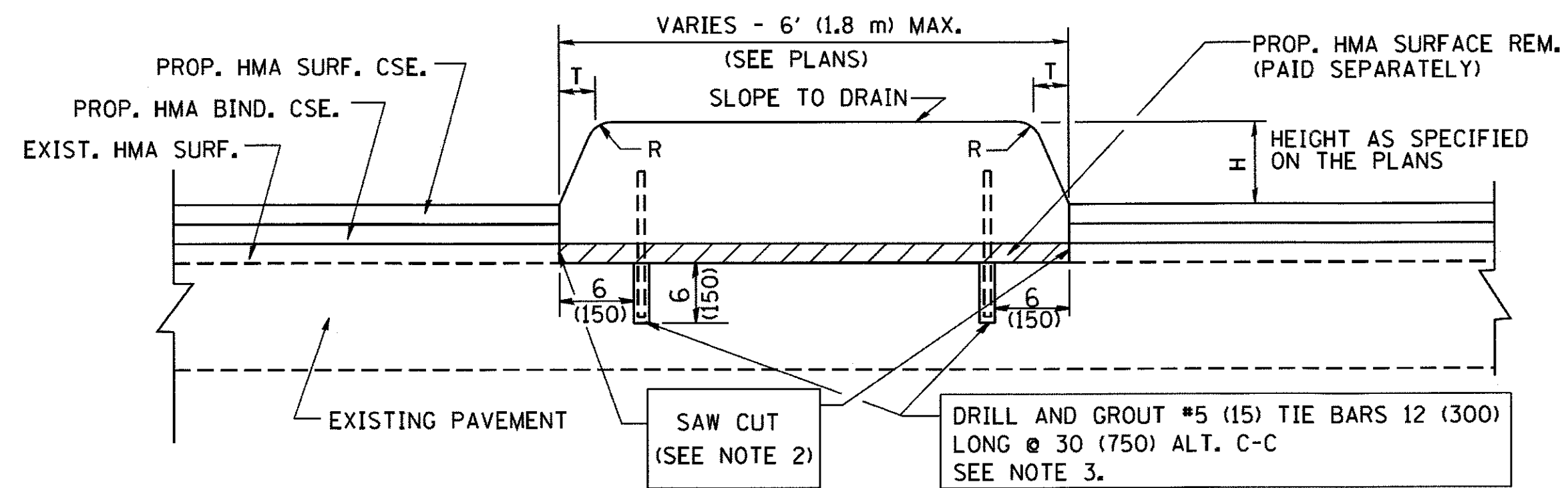




- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
  2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
  3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

**DETAILS FOR CORRUGATED MEDIAN (MODIFIED)**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
  2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
  3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

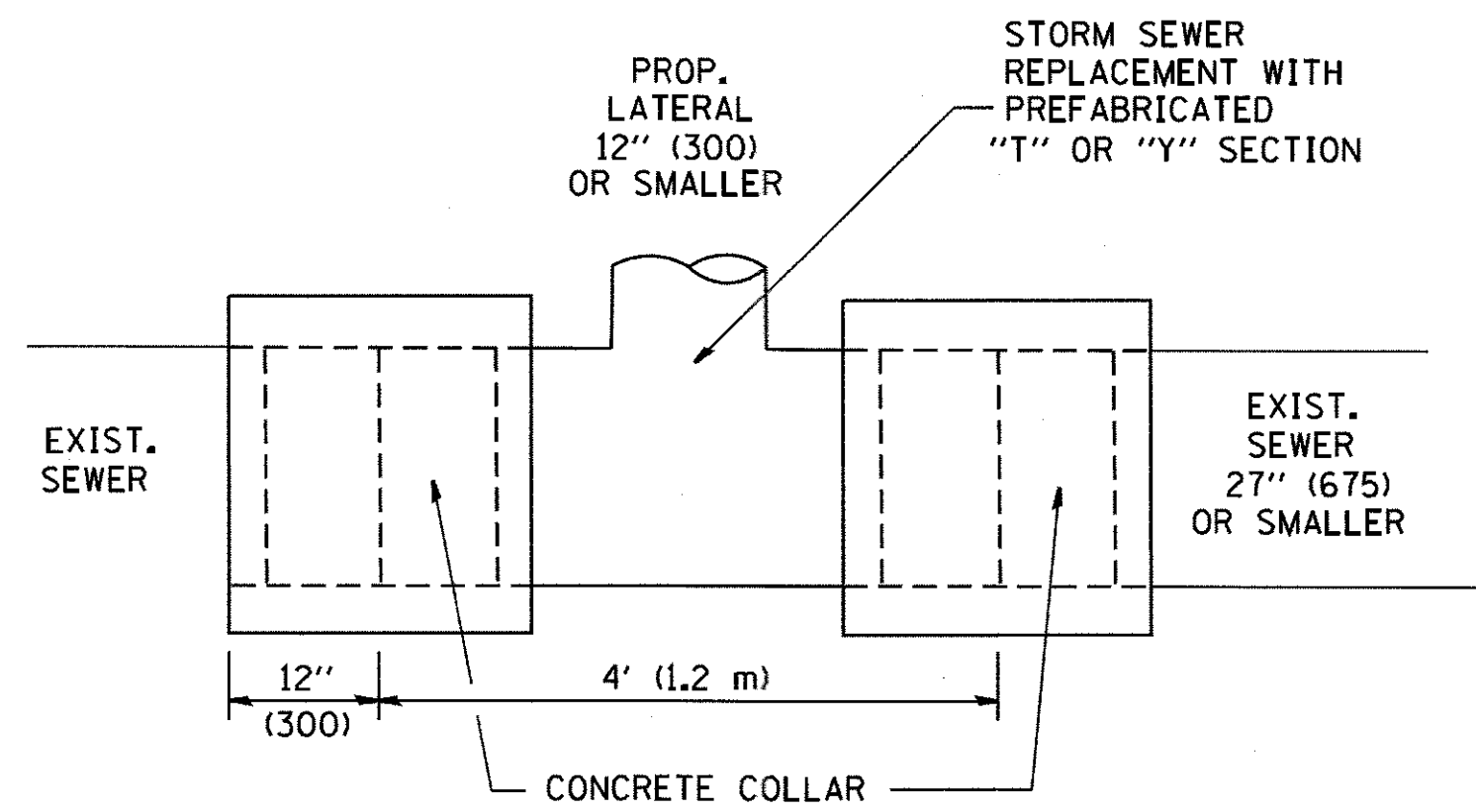
H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

**DETAILS FOR CONCRETE MEDIAN  
TYPE SB (DOWELLED)**

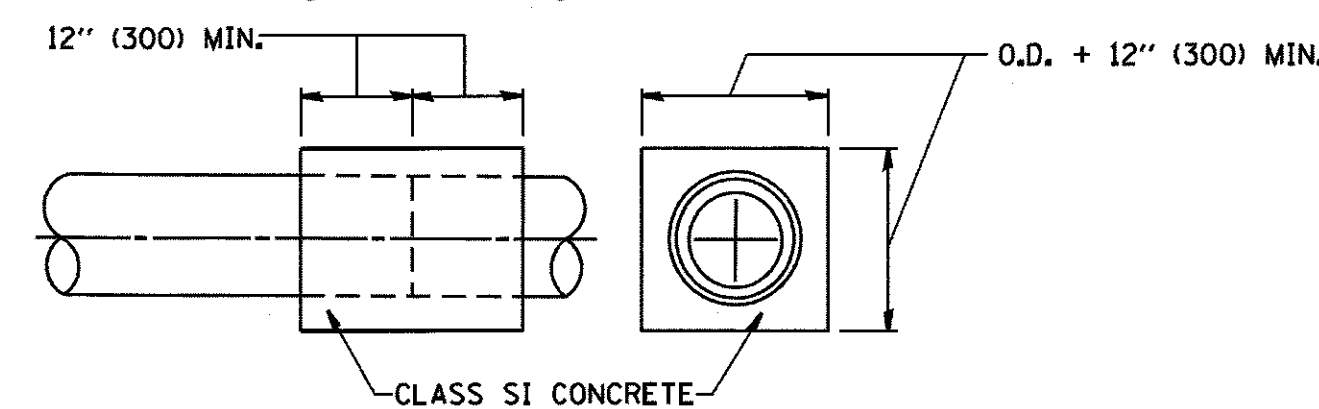
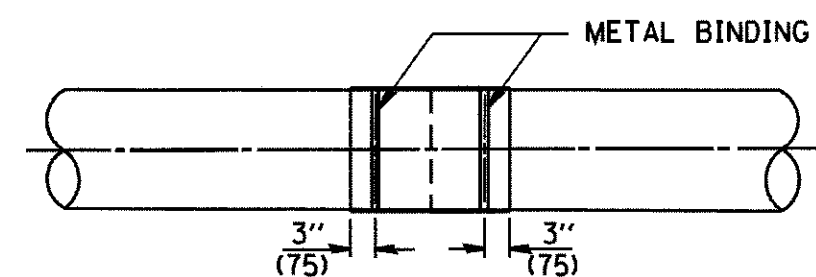
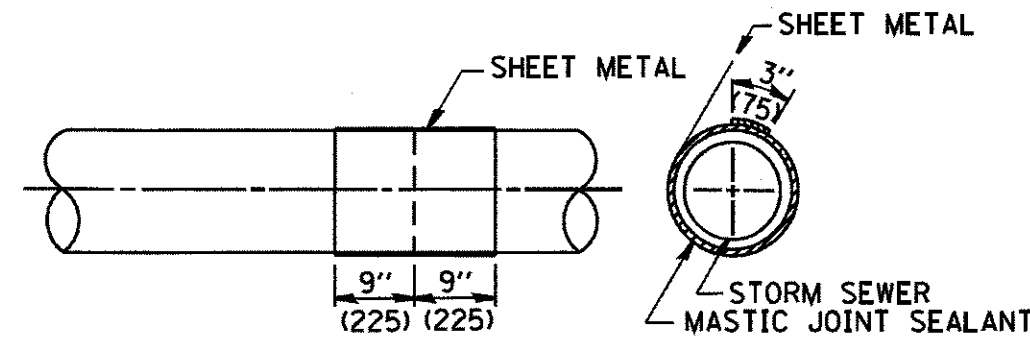
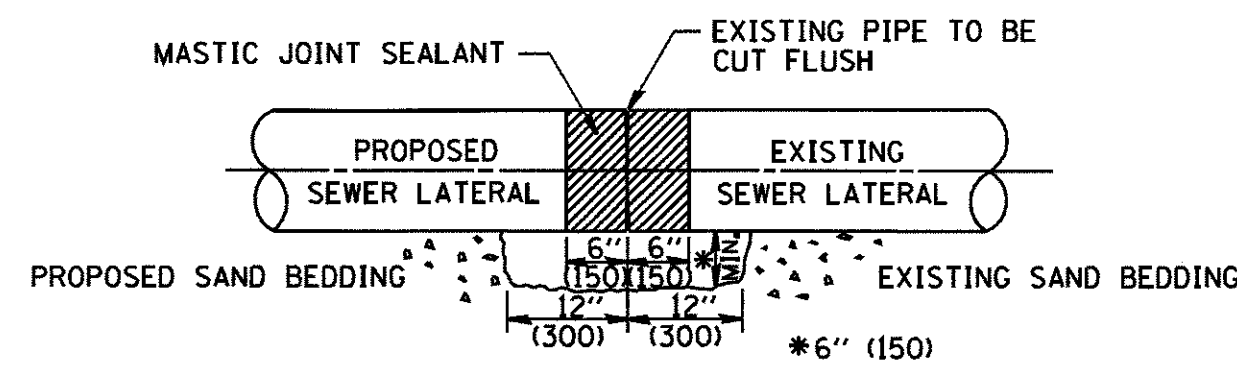
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd05.dgn	USER NAME = geglanoht	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)</b>	F.A.U. RTE. 2298	SECTION 13-00215-20-BR	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 117	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - E. GOMEZ 08-28-00	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 61D16	
PLOT DATE = 1/4/2008	DATE - 05-14-90	REVISED - R. BORO 01-01-07									



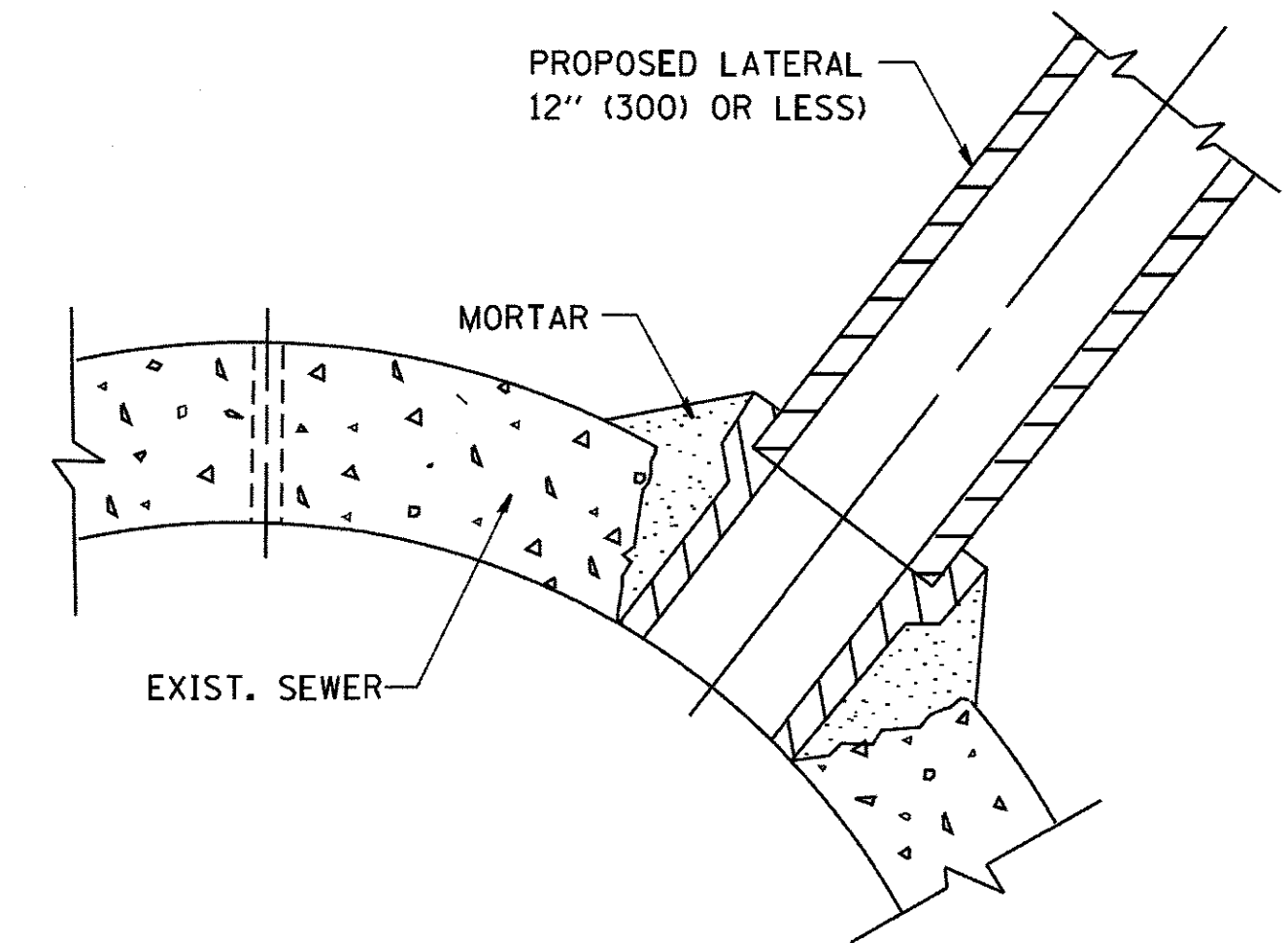
**DETAIL "A"**  
LATERAL CONNECTION TO EXISTING SEWER  
OF 27" (675) OR SMALLER



**DETAIL "B"**  
CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 I.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**  
PROPOSED LATERAL  
CONNECTION TO EXISTING SEWER  
OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

1. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
2. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

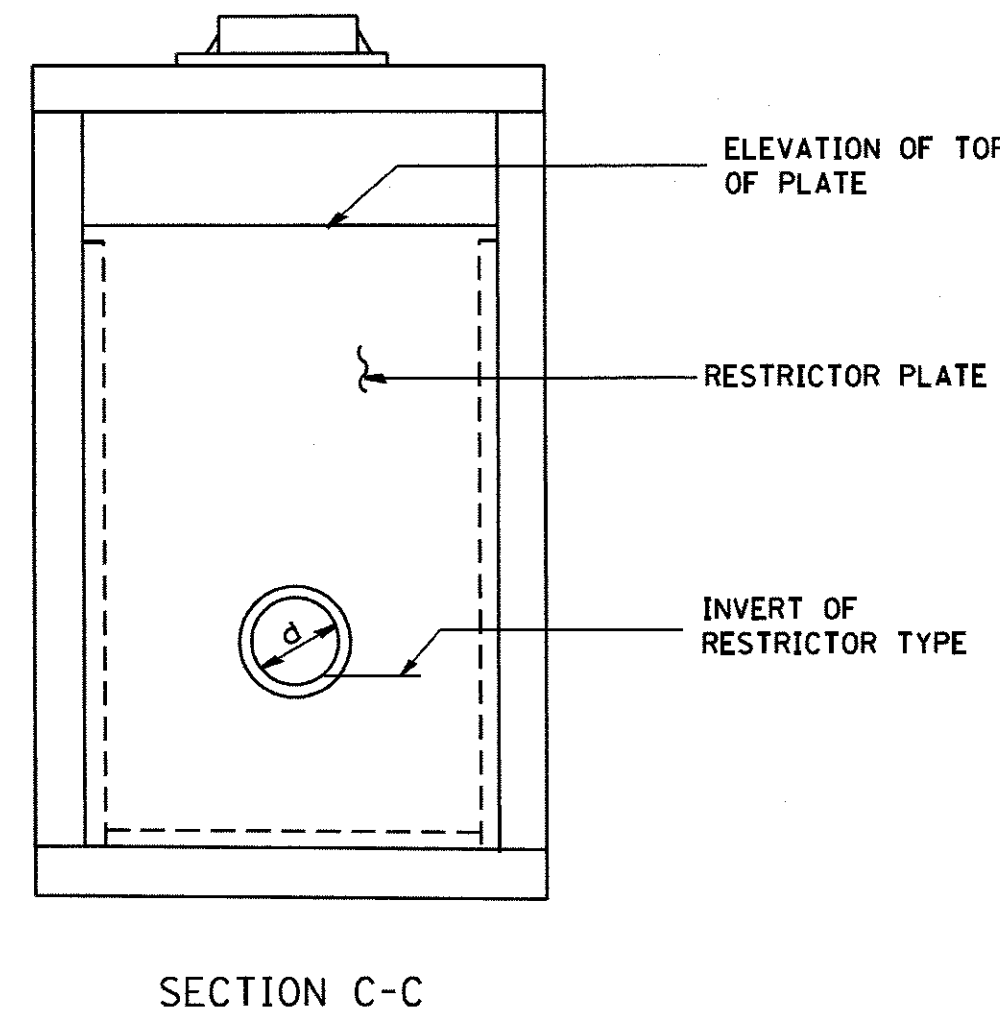
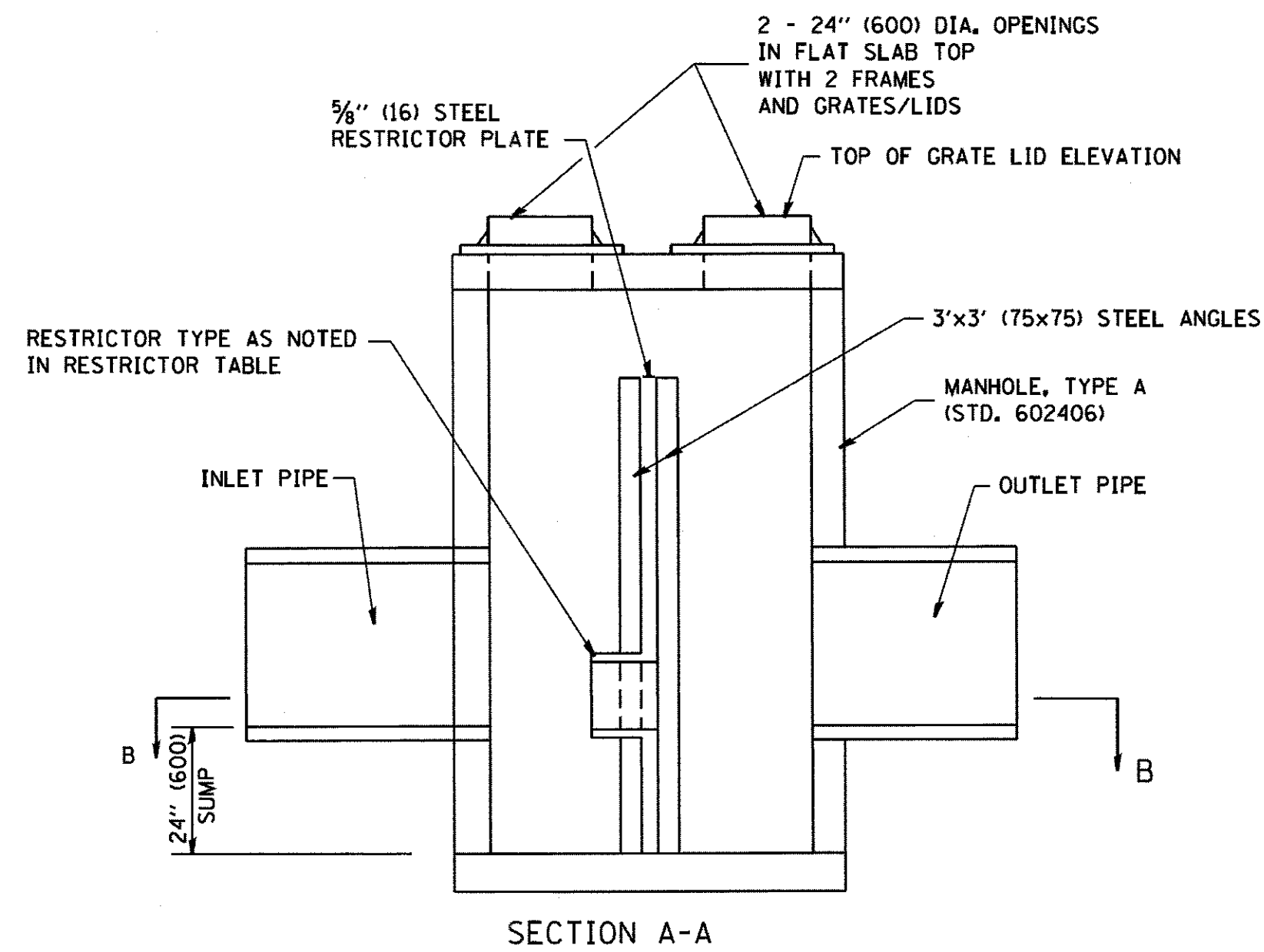
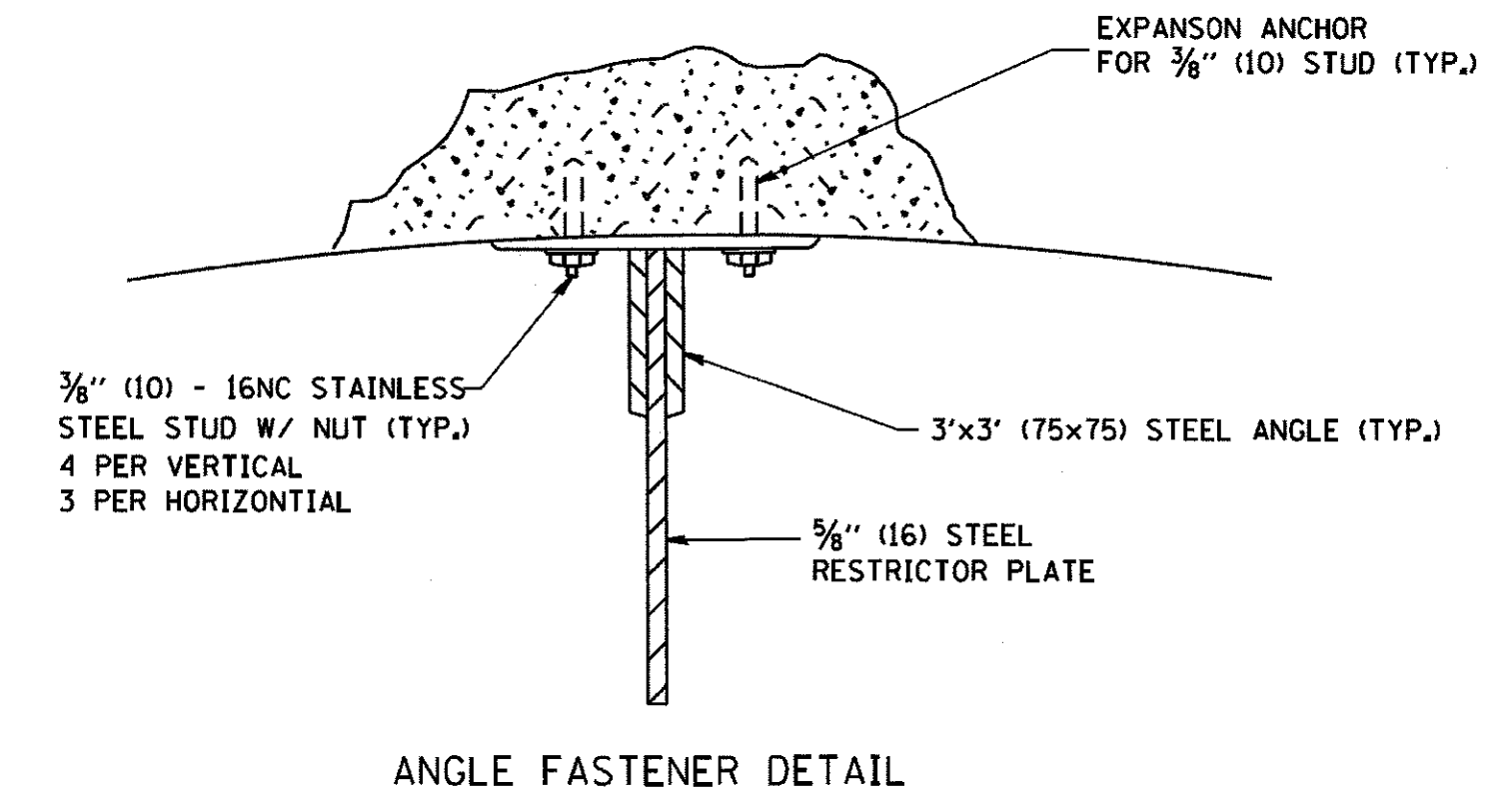
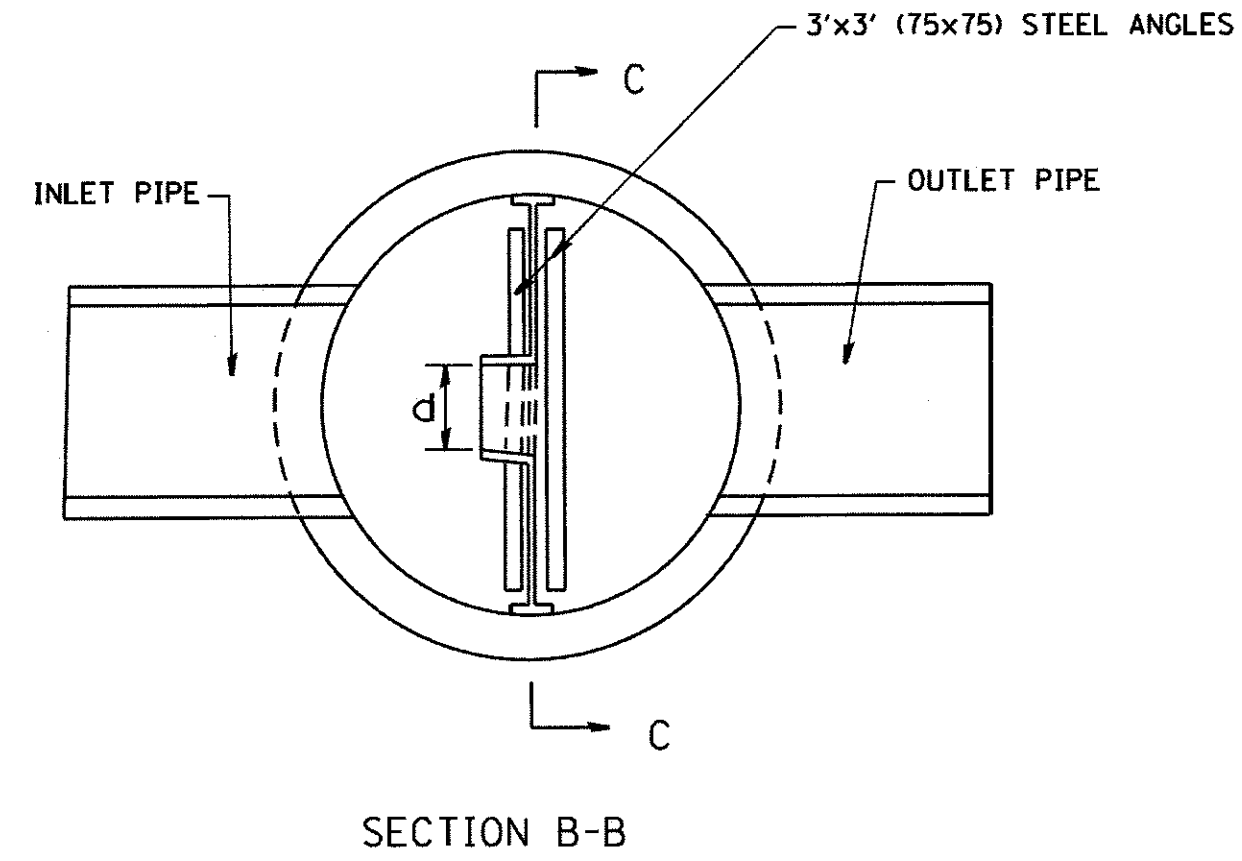
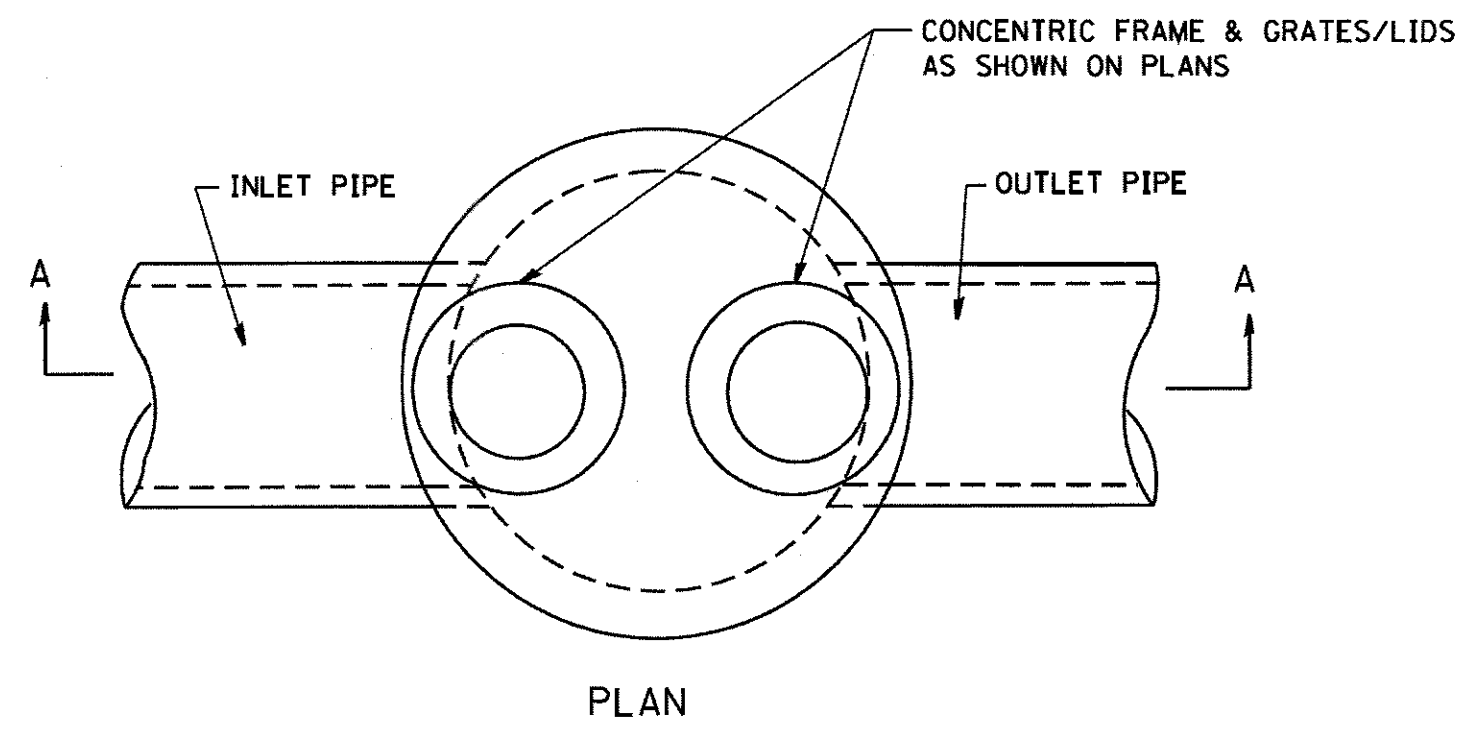
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

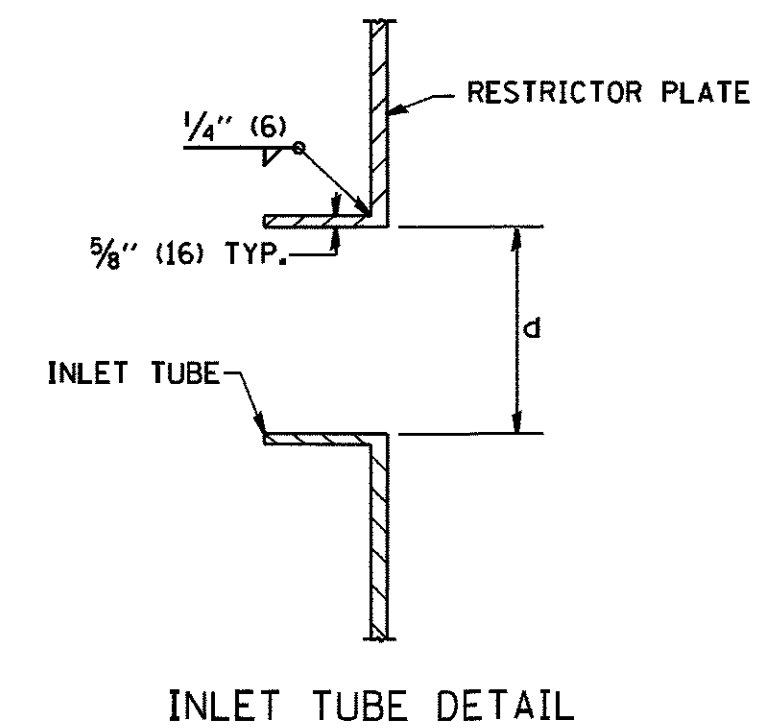
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\bd07.dgn	USER NAME = geglennobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. SHAH 09-09-94		2298	13-00215-20-BR	KANE	177	118			
		PLOT SCALE = 5/8" = 1' IN.	REVISED - R. SHAH 10-25-94		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		PLOT DATE = 1/4/2008	REVISED - R. SHAH 06-12-96		BD500-01 (BD-7)		CONTRACT NO.		61D16			

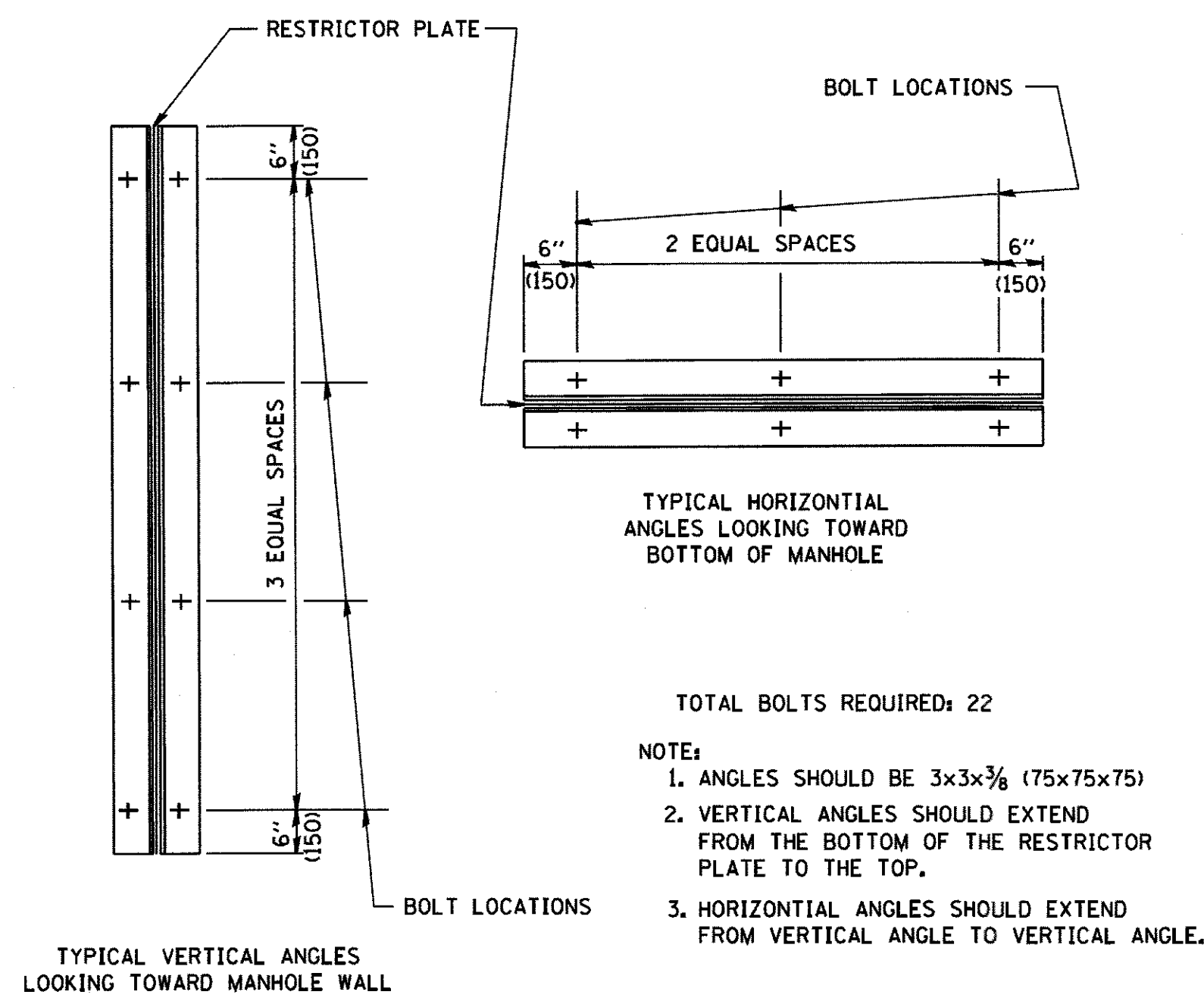


NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE I FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW	
C-5	809+17.01	6'	TY 1 CL	TY 1	3"	880.45	883.95 (3" WEIR)
C-7	809+48.91	6'	TY 1 CL	TY 1	3"	880.74	883.50 (3" WEIR)
D-20	827+10.00	6'	TY 1 CL	TY 1	4.5"	860.85	864.85
D-36	828+71.31	6'	TY 1 CL	TY 1	4.5"	852.28	856.28
D-41	827+94.40	6'	TY 1 CL	TY 1	4.5"	856.11	860.11
D-43	826+32.70	6'	TY 1 CL	TY 1	4.5"	864.49	868.49
D-1	829+40.00	6'	TY 1 CL	TY 1	5"	847.50	850.25
A-1	2283+15.45	6'	TY 1 CL	TY 1	4"	874.00	879.00



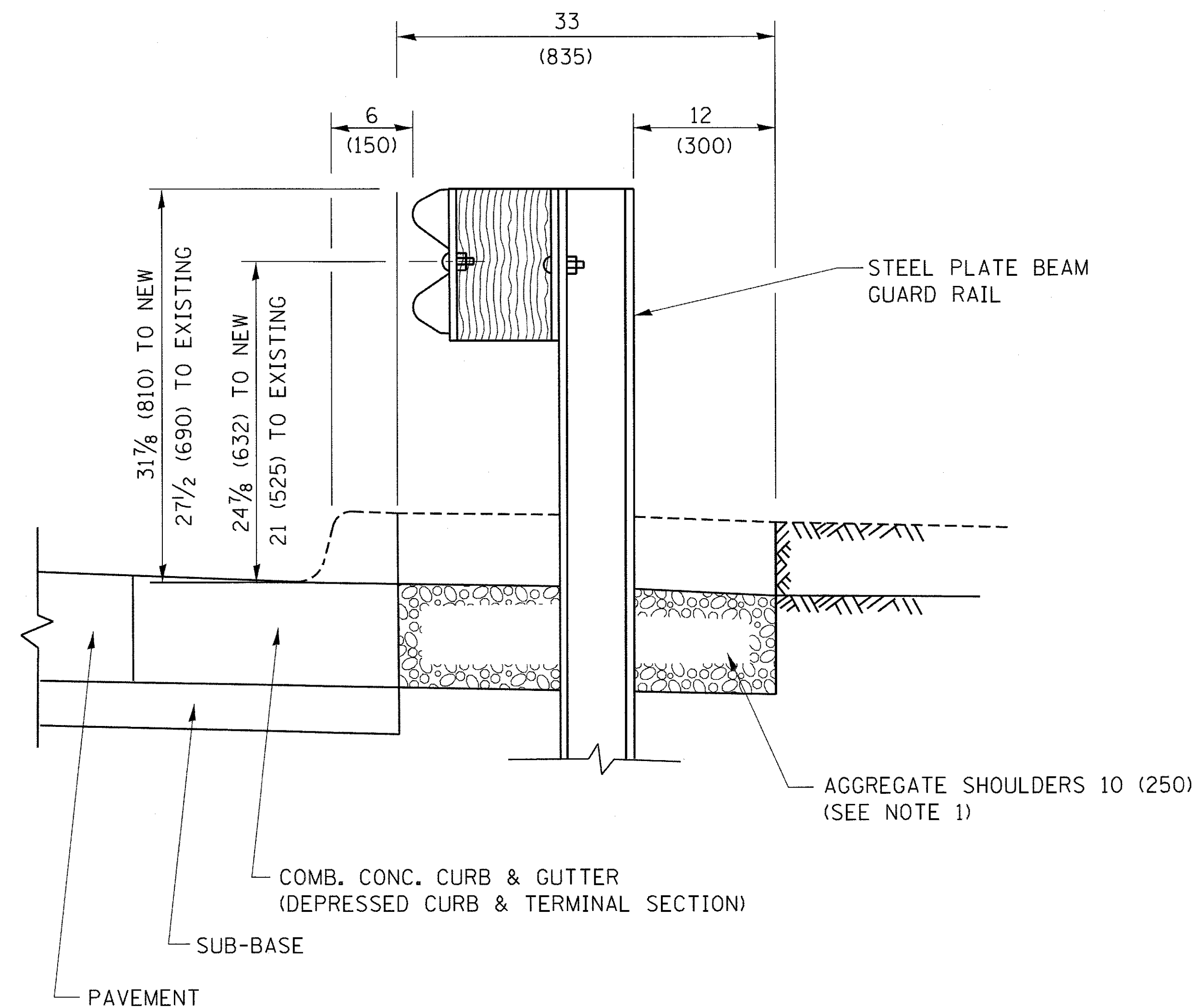
- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
  2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
  3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

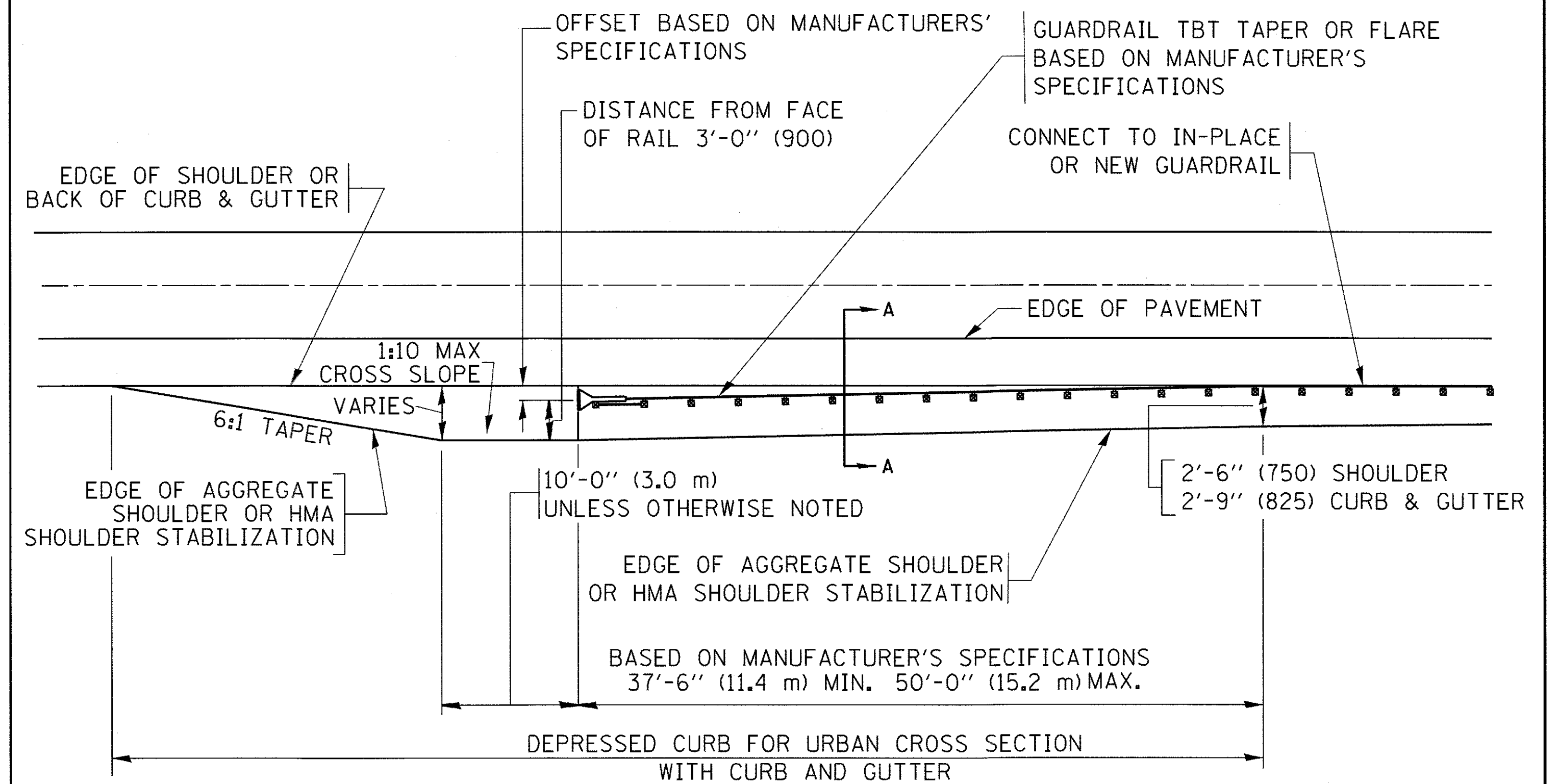




SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drvakosgn	DESIGNED - M. DE YONG	REVISED - R. BORO 12-08-2008
pw\1\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\Drawings\CAD\Detail\CADsheets\bd34.dgn		CHECKED -	REVISED - R. BORO 09-14-2009
		DATE - 09-22-90	REVISED - R. BORO 08-06-2012
			REVISED - R. BORO 05-08-2015

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-20-BR	KANE	177	120
BD600-10 (BD 34)		CONTRACT NO.	61D16	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

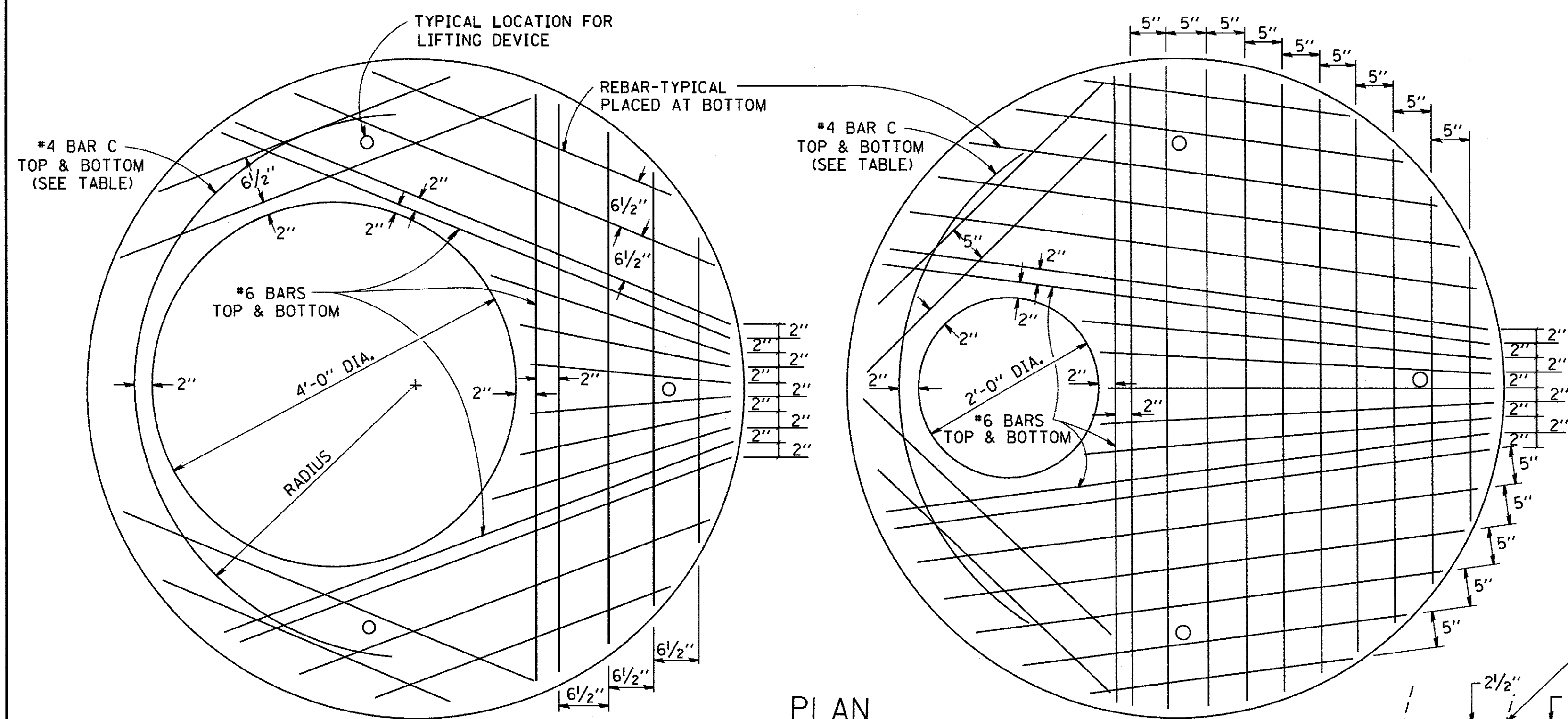
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

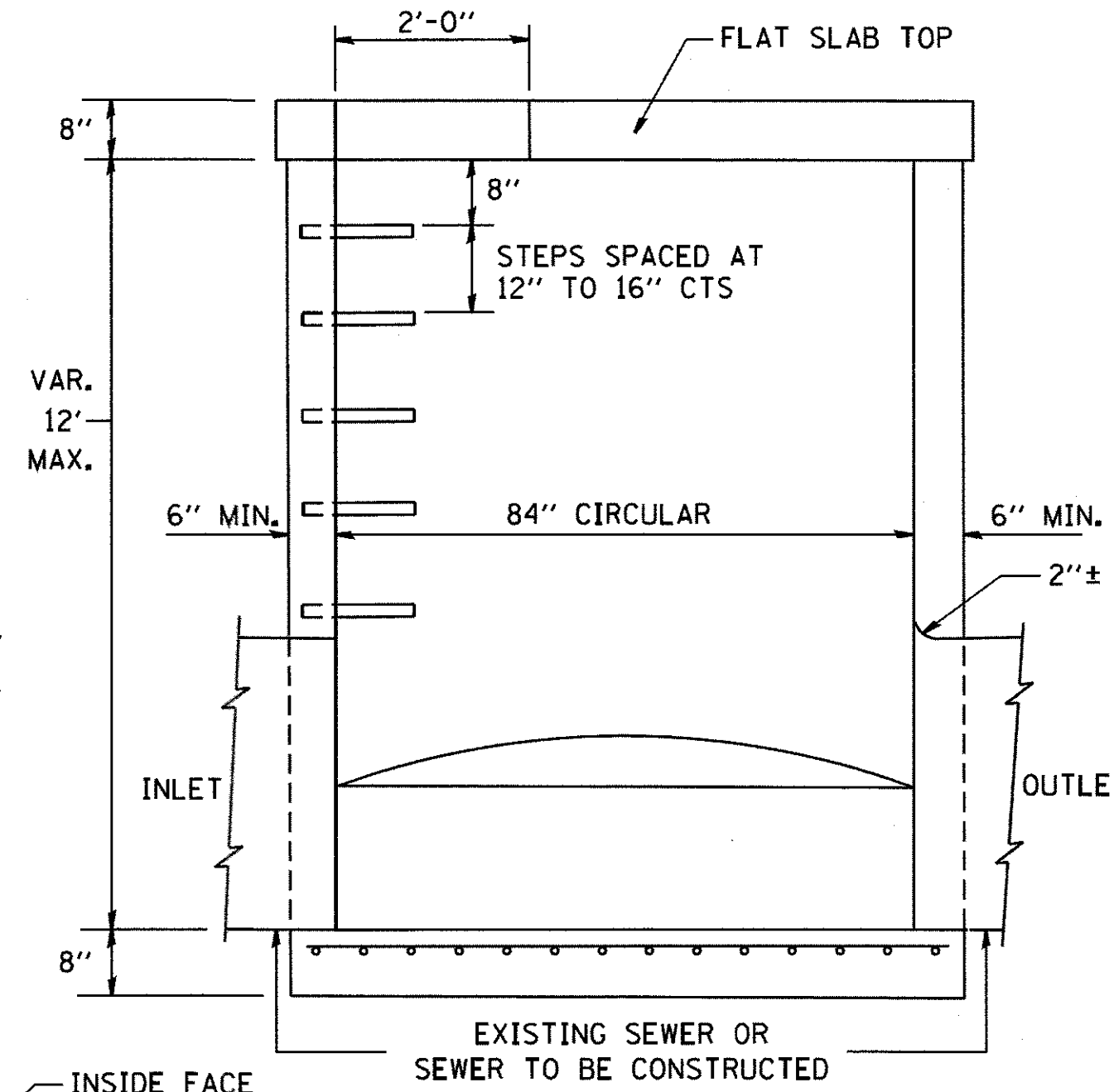
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

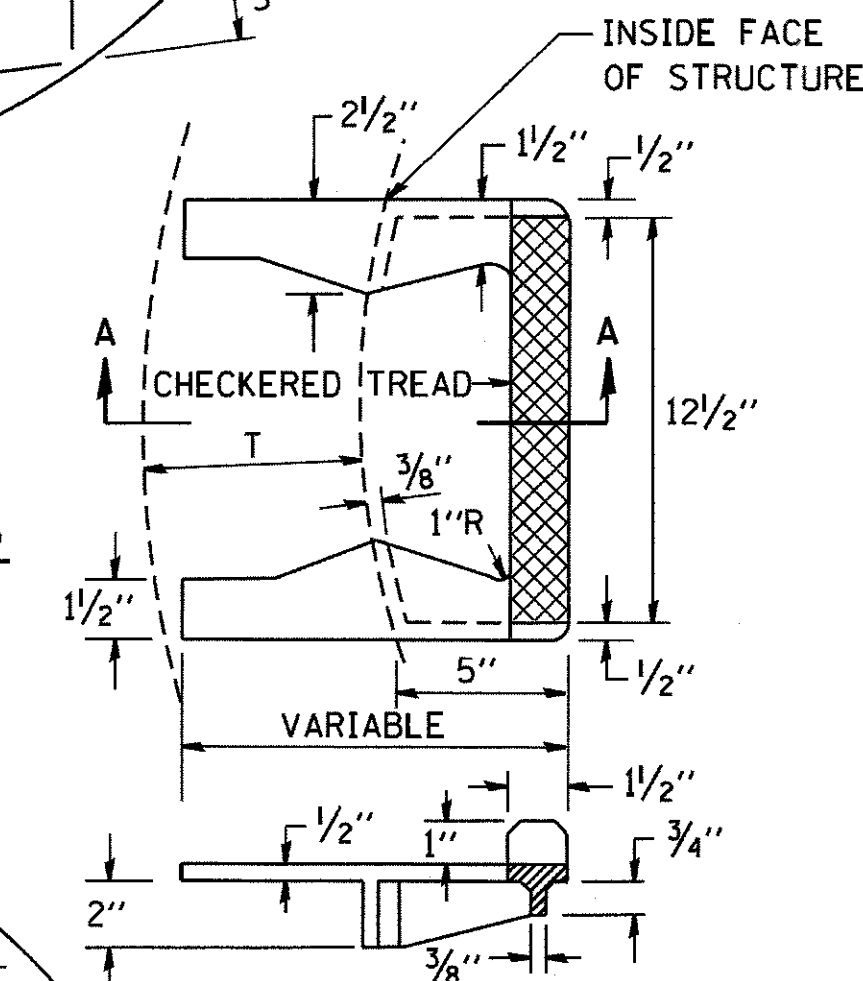
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



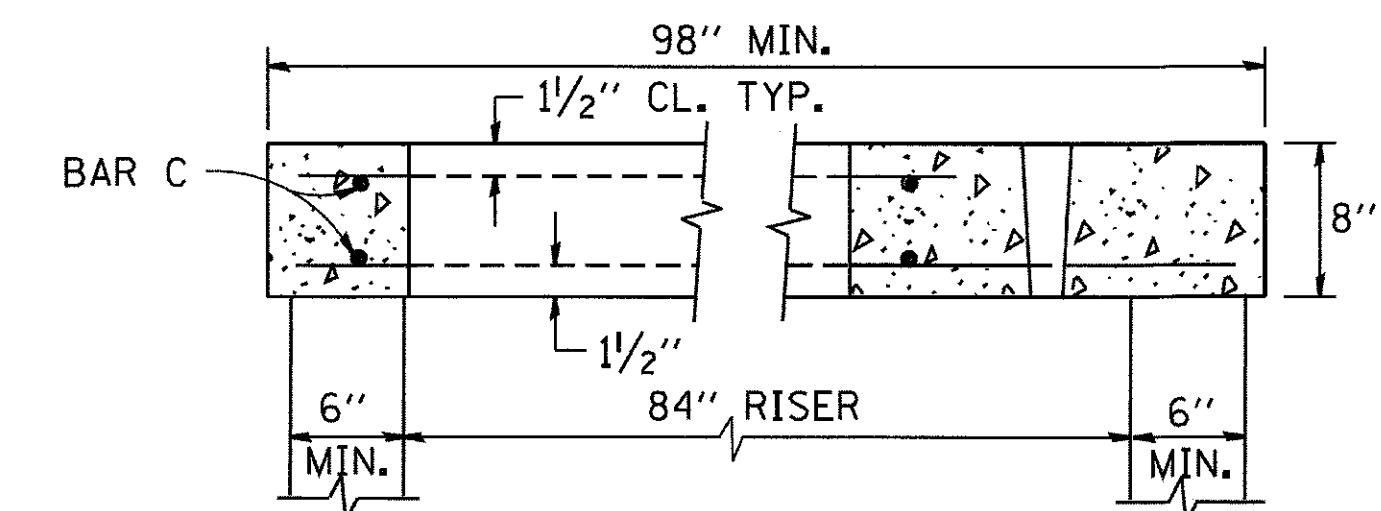
**PLAN**  
SHOWING REBAR REINFORCEMENT



**ELEVATION**

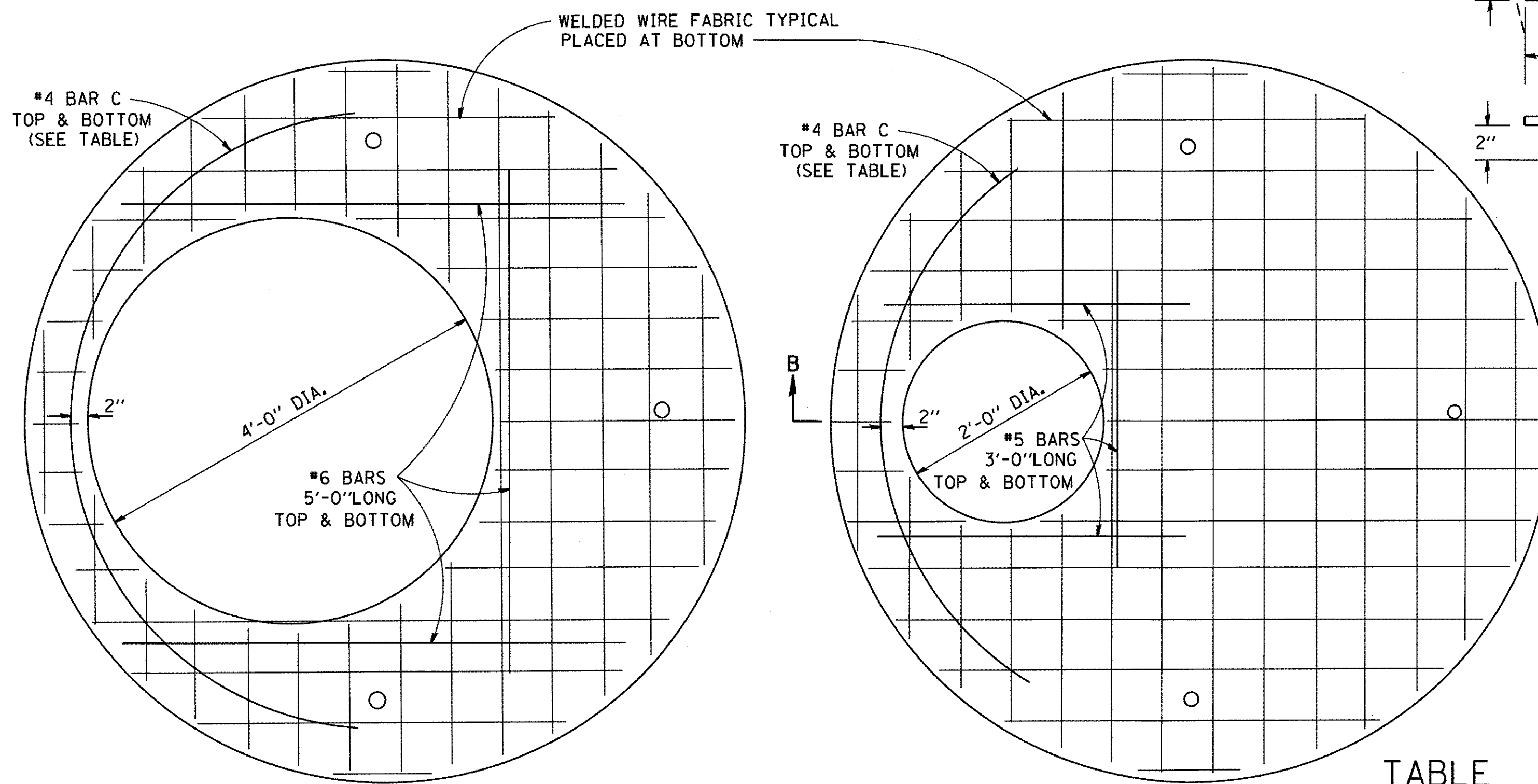


**SEC. A-A**  
**CAST IRON STEPS**



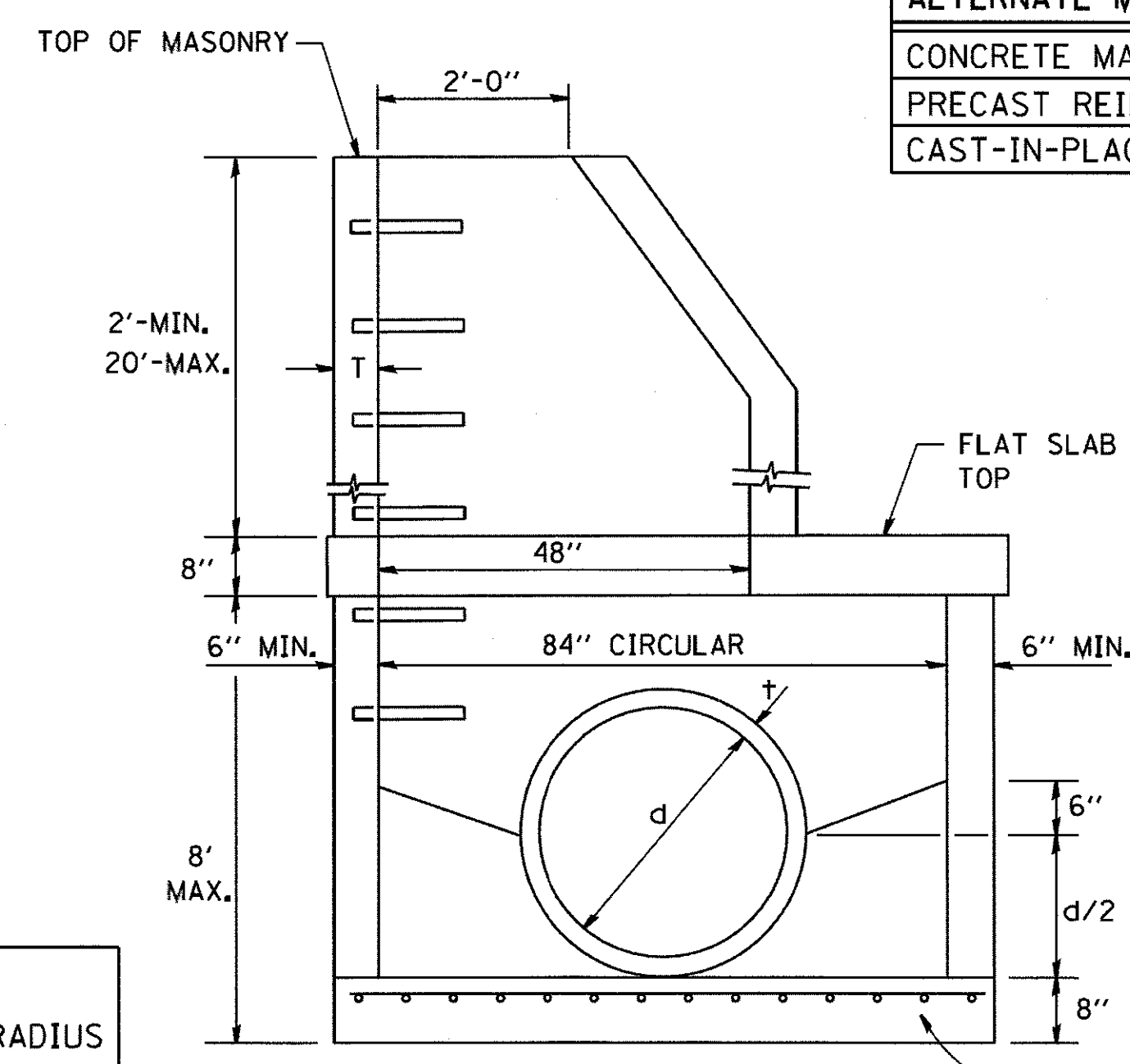
**SECTION B-B**

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"

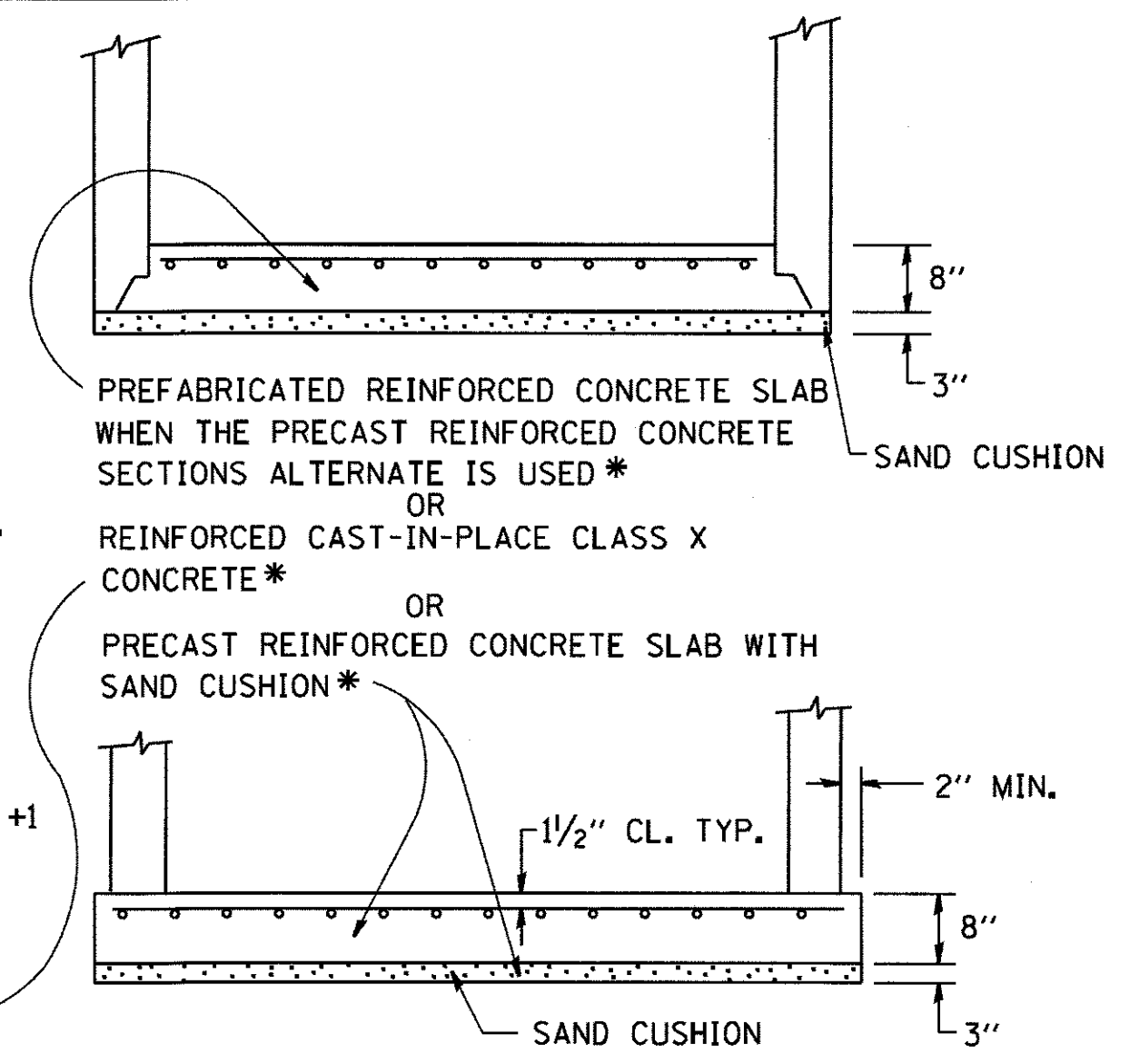


**PLAN**  
SHOWING WELDED WIRE FABRIC REINFORCEMENT  
NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

DIAMETER OF OPENING	REINFORCEMENT "A <sub>s</sub> " WWF OR BAR SIZE EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"



**ELEVATION**

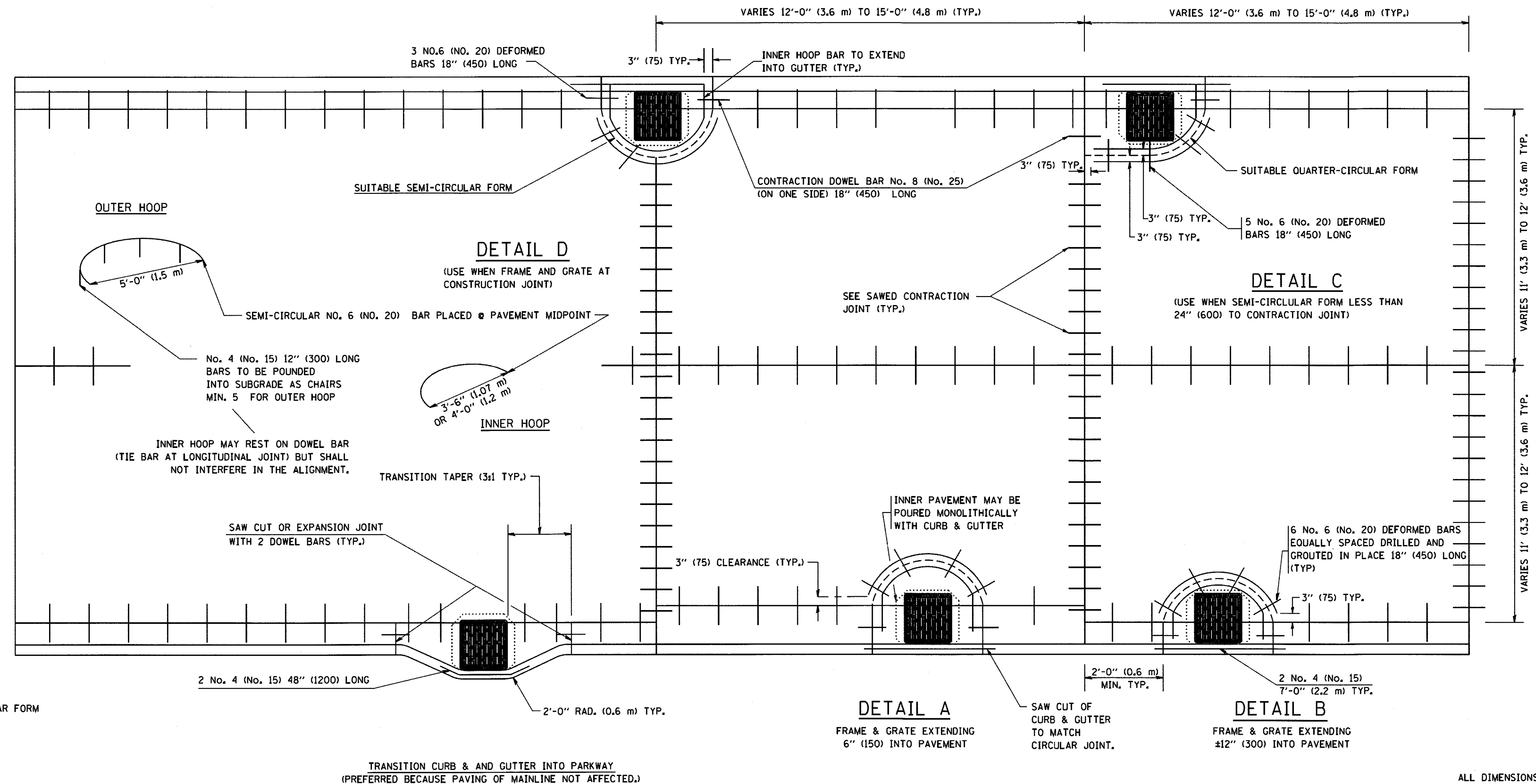


FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

**DESIGNER NOTE:**  
THIS DETAIL IS TO BE USED  
WHEN THE GUTTER FLAG IS  
LESS THAN 24"

**NOTES:**

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT. EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

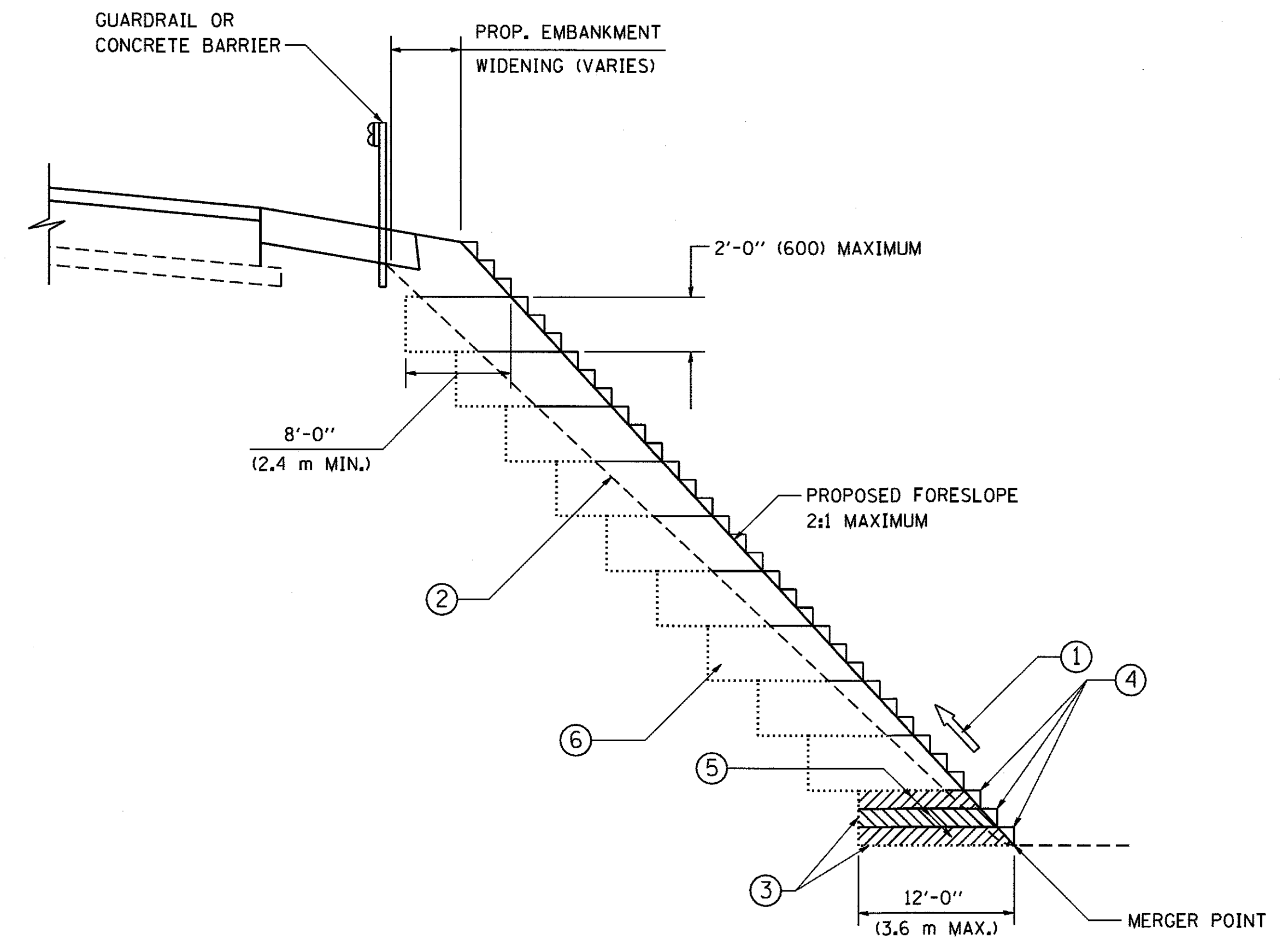


**LEGEND:**  
..... CASTING  
----- SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME = W:\diststd\22x34\bd48.dgn	USER NAME = geglantob	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER</b>			F.A.U. RTE. 2298	SECTION 13-00215-20-BR	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 122
	PLOT SCALE = 50.0000' / IN.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD-48</b>		<b>CONTRACT NO. 61D16</b>	
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02						FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02									





**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

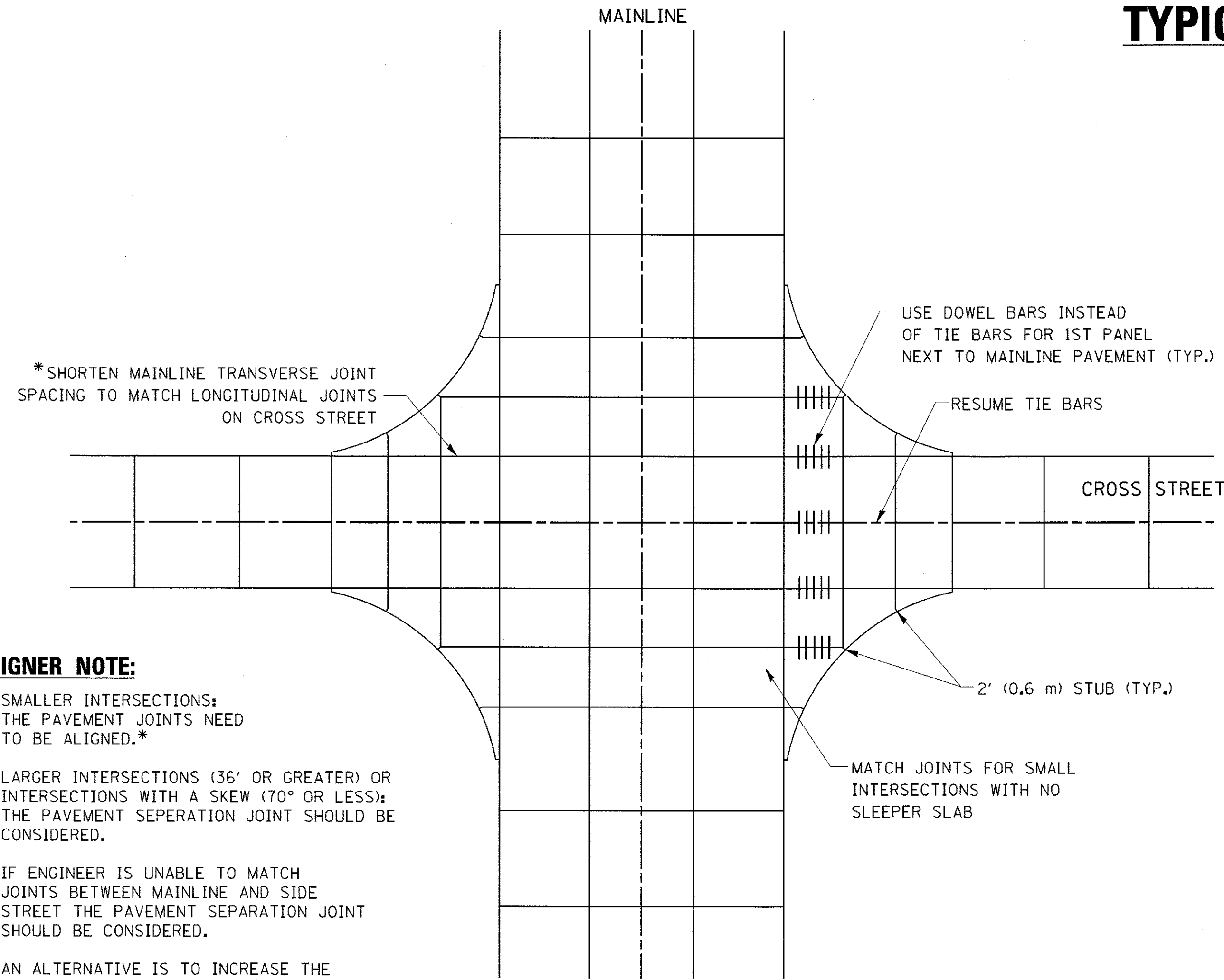
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME = w:\distatd\22x34\bd51.dgn	USER NAME = goglienobt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED - S.E.B.	REVISED -					2298	13-00215-20-BR	KANE	177	123
	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD-51</b>		CONTRACT NO. 61D16	
								FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

# TYPICAL APPLICATION

**THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH**



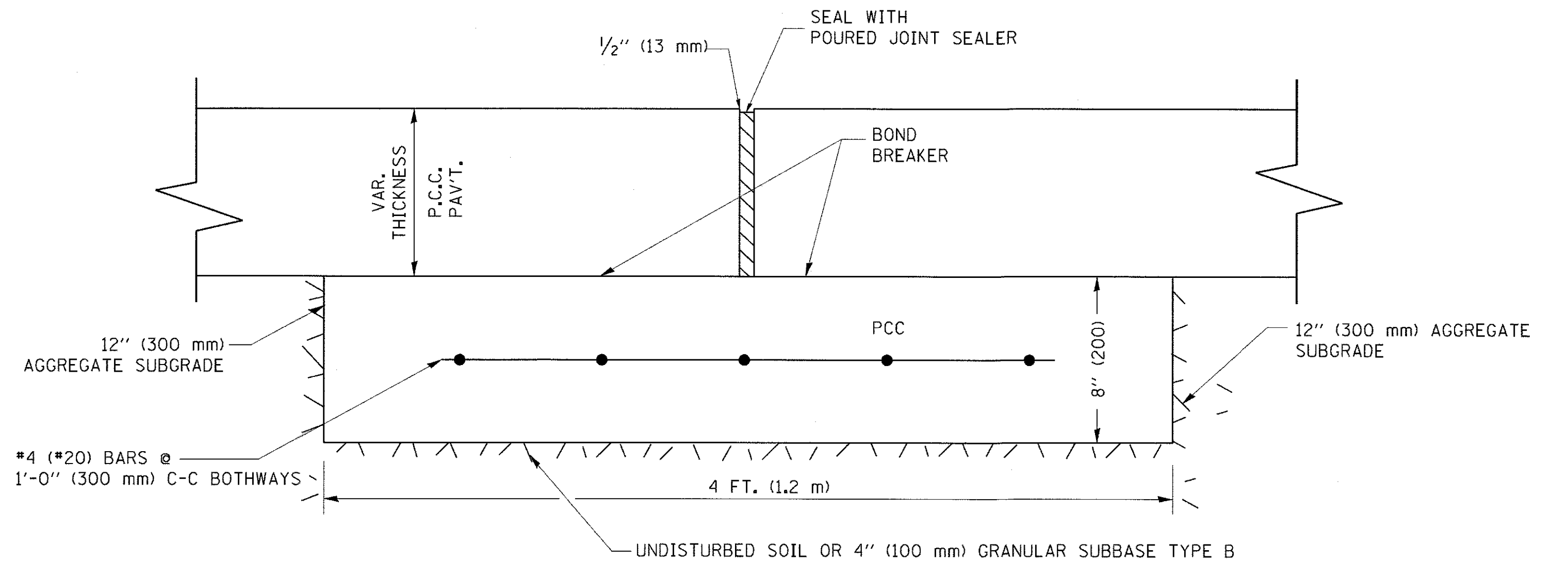
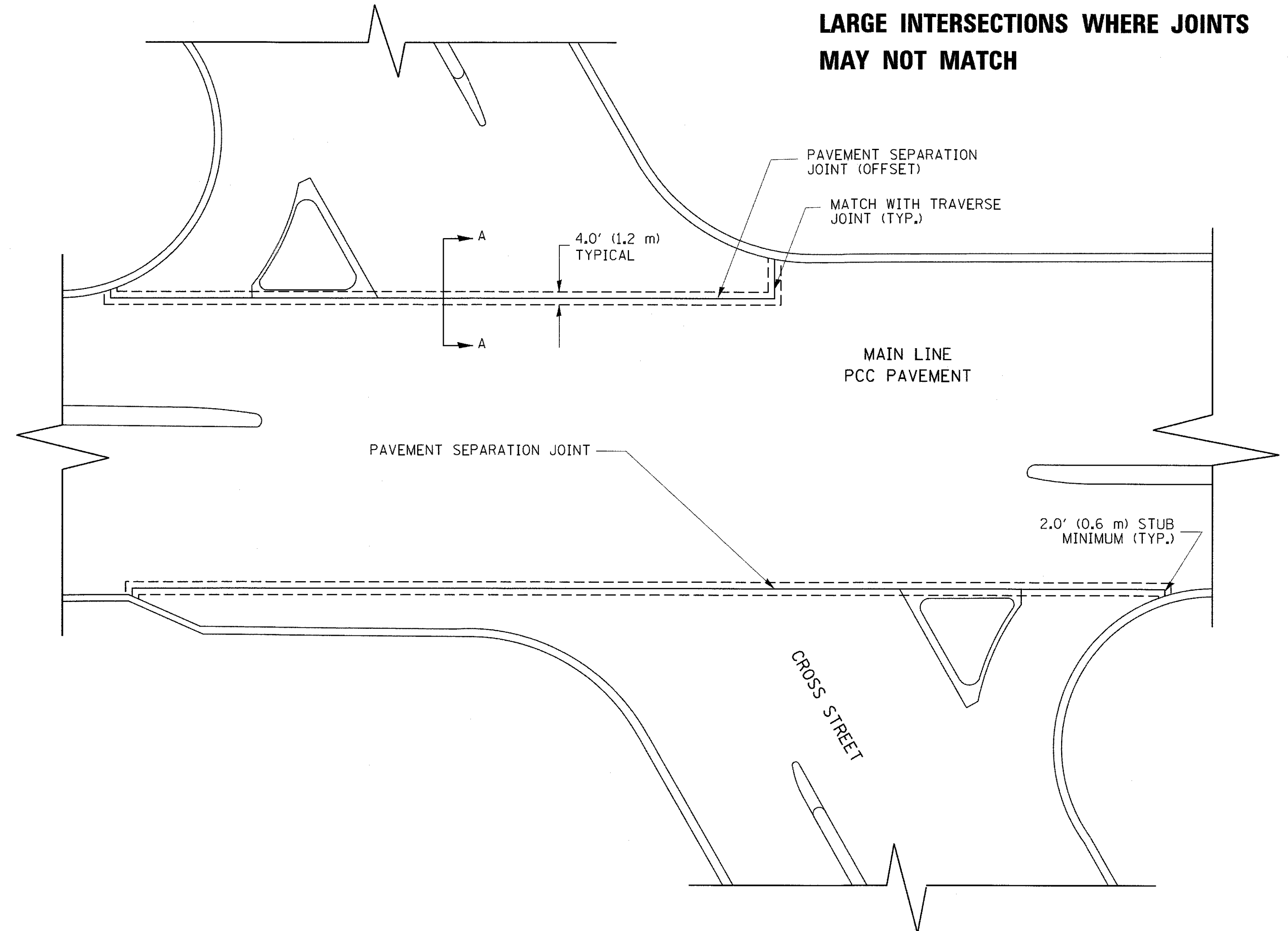
**PLAN**

**DESIGNER NOTE:**

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED.\*
2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS); THE PAVEMENT SEPERATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPERATION JOINT SHOULD BE CONSIDERED.
4. AN ALTERNATIVE IS TO INCREASE THE PAVEMENT THICKNESSES BY 1/2" (13 mm) FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION.
5. FOR LARGE INTERSECTIONS (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED, USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPERATION JOINTS USED.

**NOTE:**

1. JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" (13 mm) BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.
2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.
3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.
5. PAVEMENT SEPERATION JOINT IS TO BE PAID FOR AS "SLEEPER SLAB" AND IS TO BE MEASURED IN PLACE BY THE LINEAL FOOT.
6. BOND BREAKER AND 1/2" (13 mm) JOINT AND FILLER SHALL BE INCIDENTAL TO THE PAY ITEM "SLEEPER SLAB".



**PROPOSED SECTION A-A**

FILE NAME = bd52.dgn

USER NAME = lkyso

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

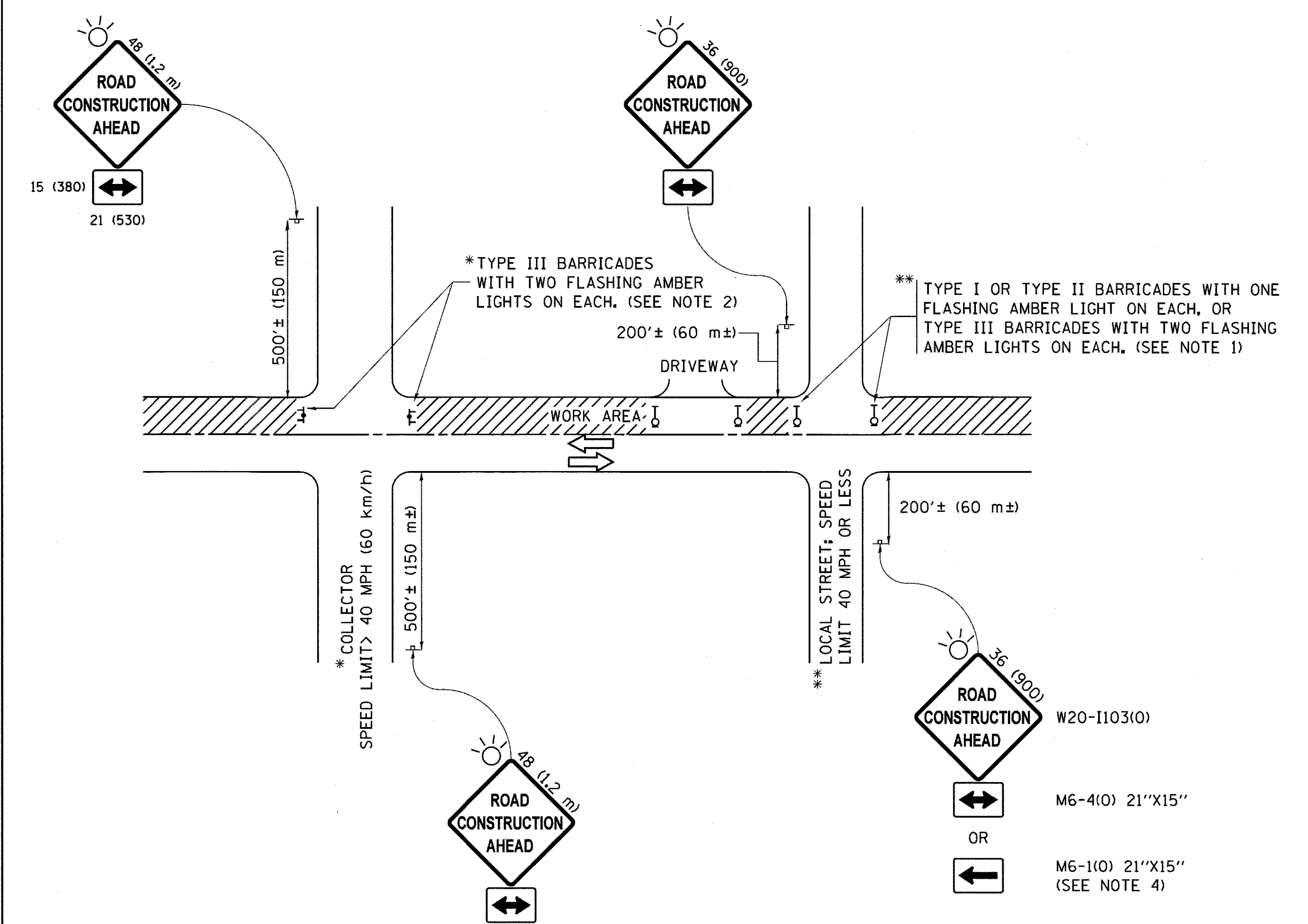
REVISED - CADD 06-18-10  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF PAVEMENT SEPARATION  
JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-20-BR	KANE	177	124
<b>BD52</b>			<b>CONTRACT NO. 61D16</b>	
<small>ILLINOIS FED. AID PROJECT</small>				



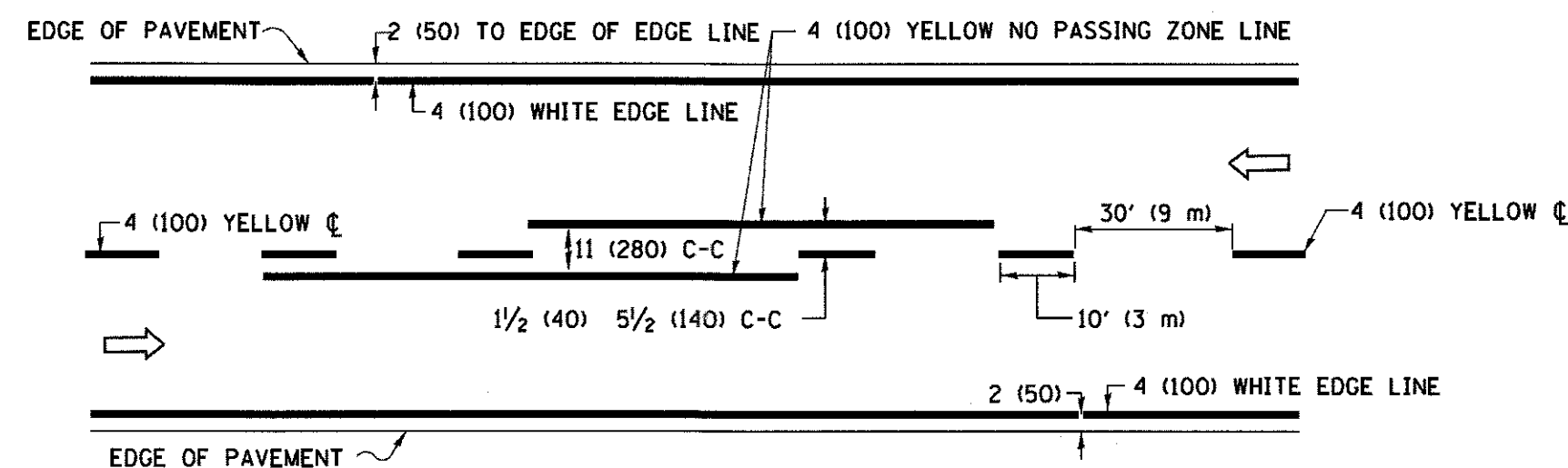
**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S), THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

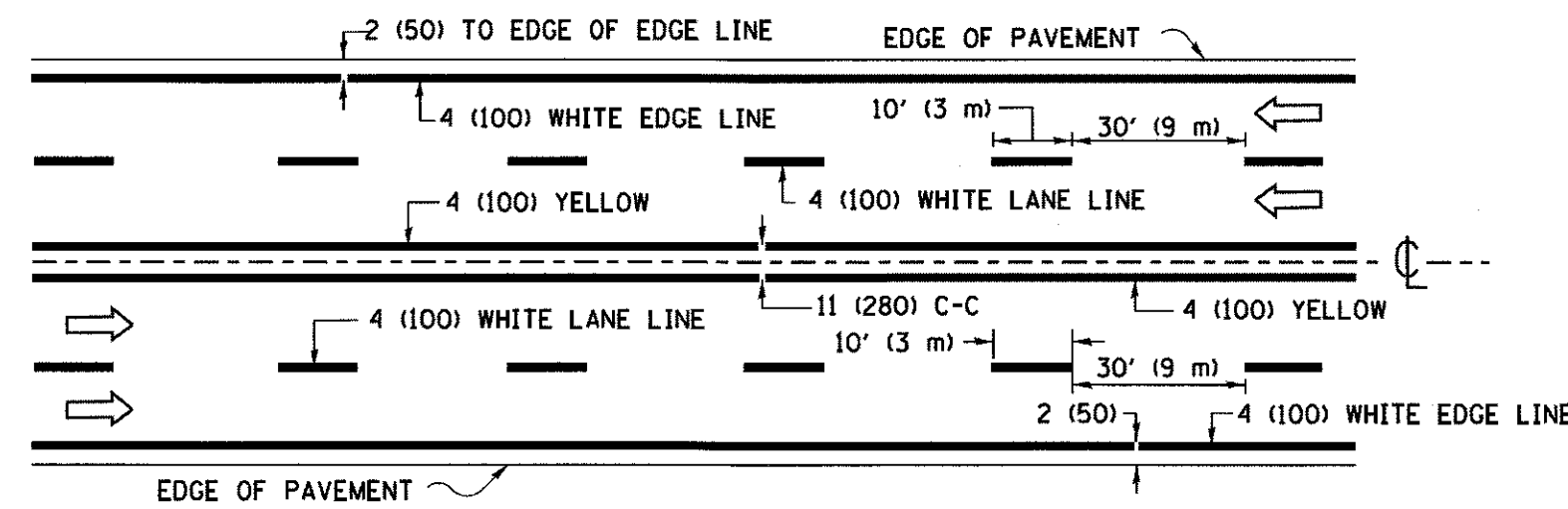
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footej	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\j\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\Dist	DRAWN\CAD\Detail\CAD\sheets\td1.dgn	REVISED - T. RAMMACHER 01-06-00	REVISED - A. SCHUETZE 07-01-13			2298	13-00215-20-BR	KANE	177	125	
PLOT SCALE = 50,000 / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16	SCALE: NONE			SHEET 1	OF 1 SHEETS	STA.	TO STA.	TC-10	CONTRACT NO. 61D16
Default	PLOT DATE = 9/15/2016	DATE - 06-89	ILLINOIS FED. AID PROJECT								

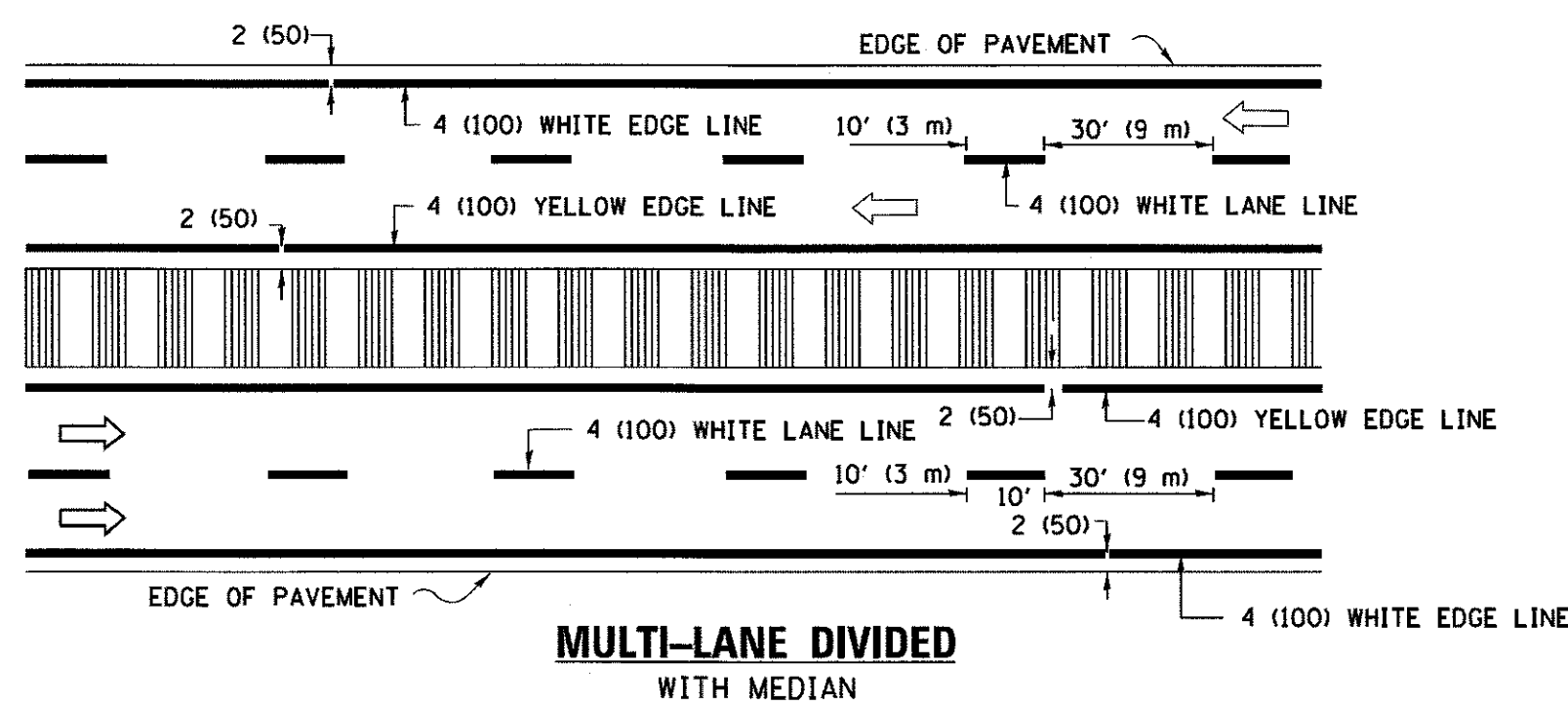




**2-LANE ROADWAY**

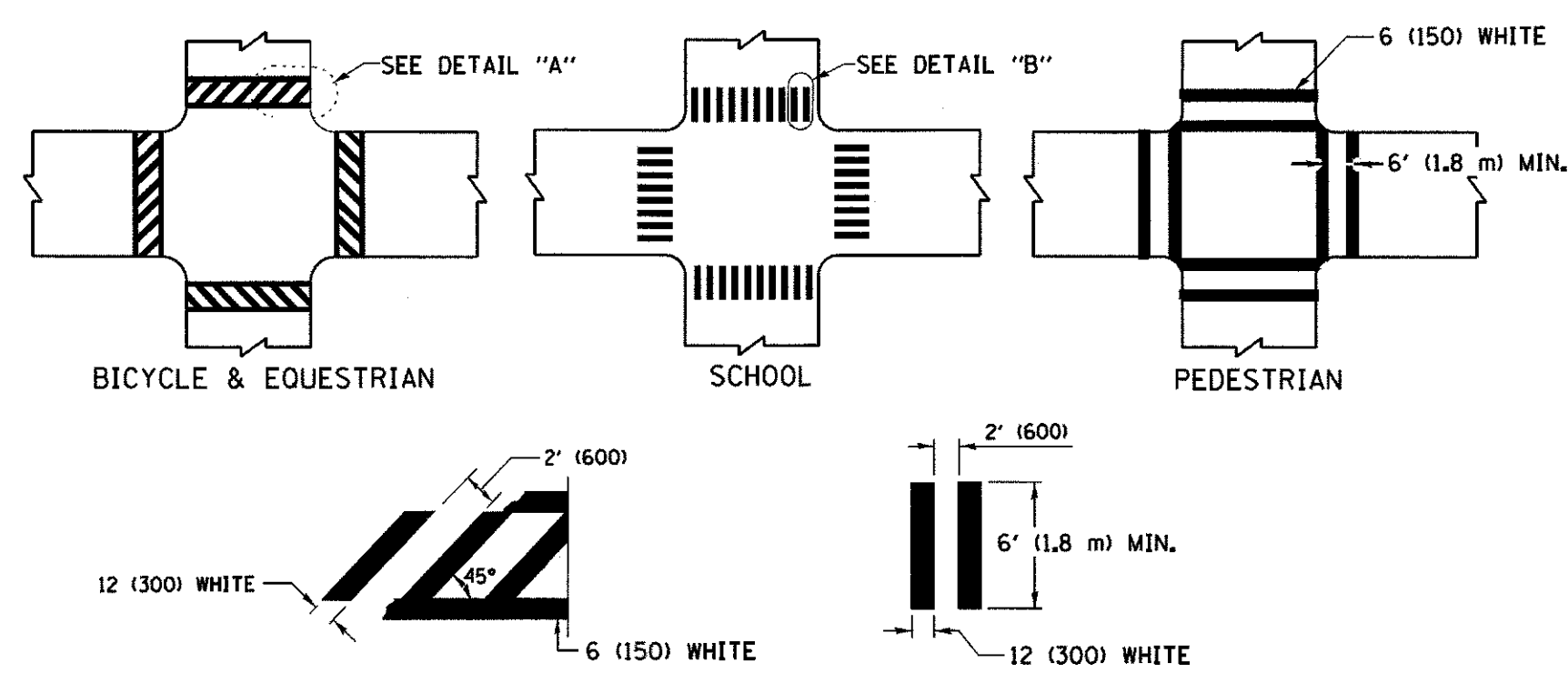


**MULTI-LANE UNDIVIDED**



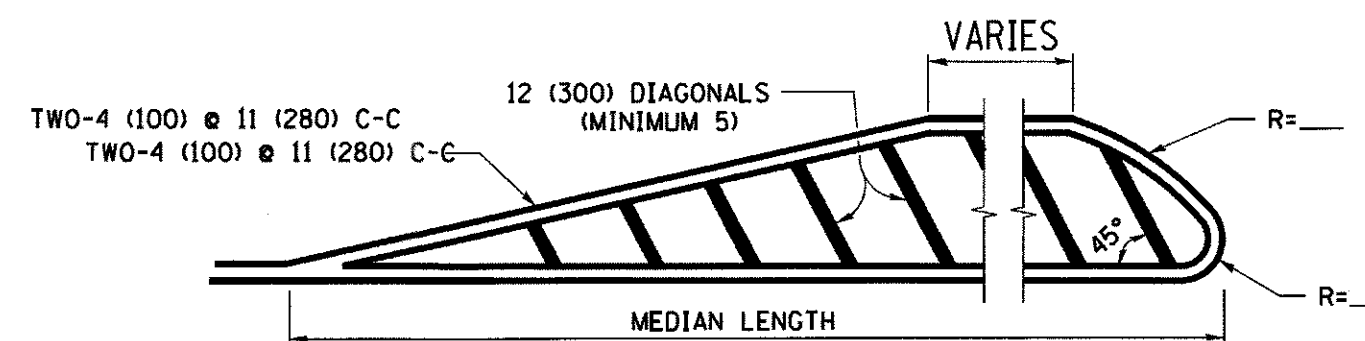
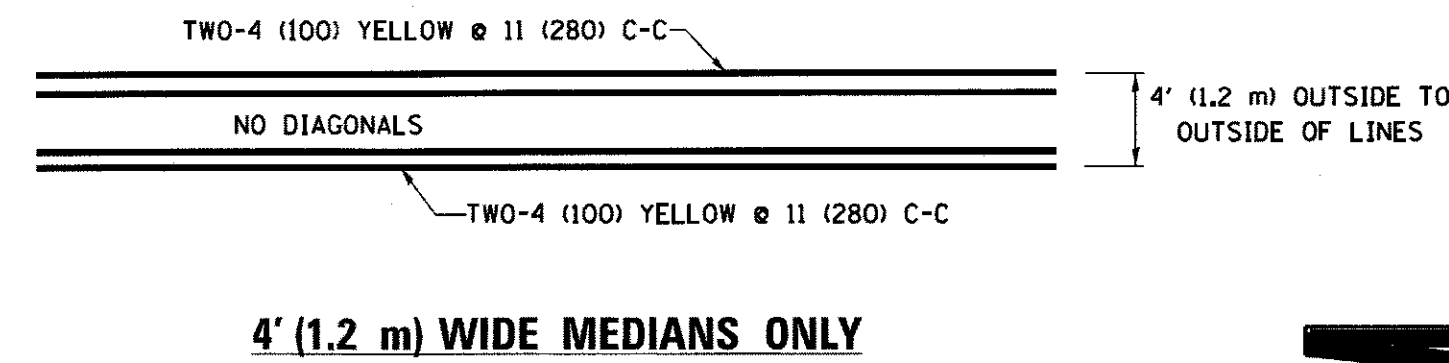
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**



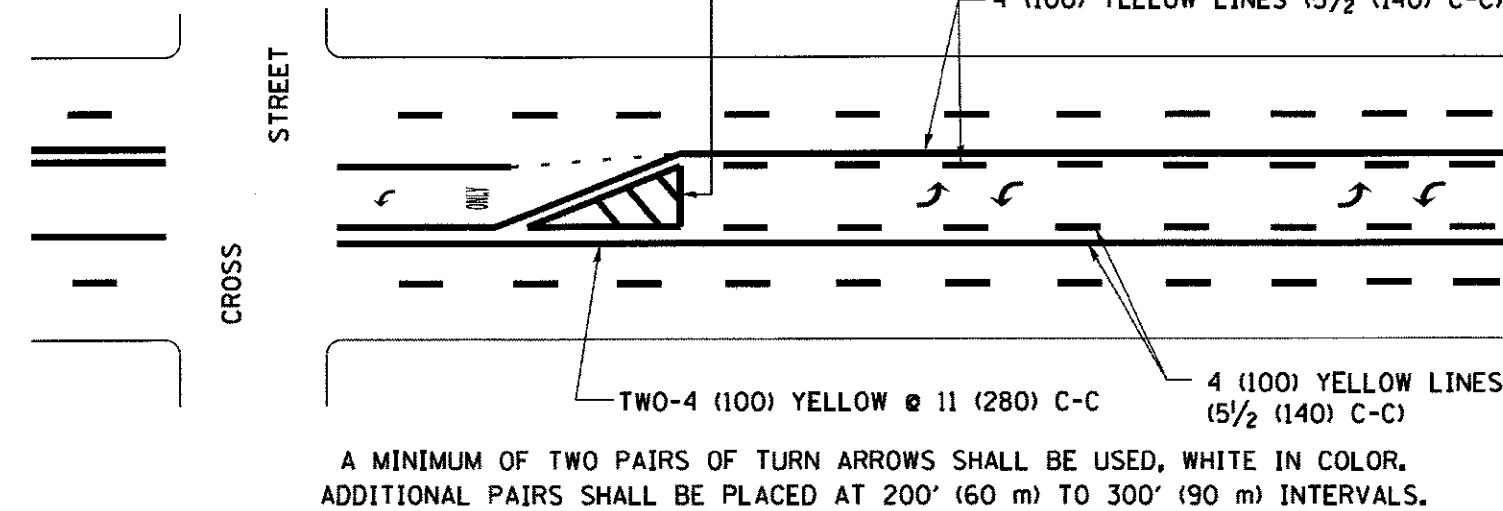
**DETAIL "A"**  
**DETAIL "B"**  
**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



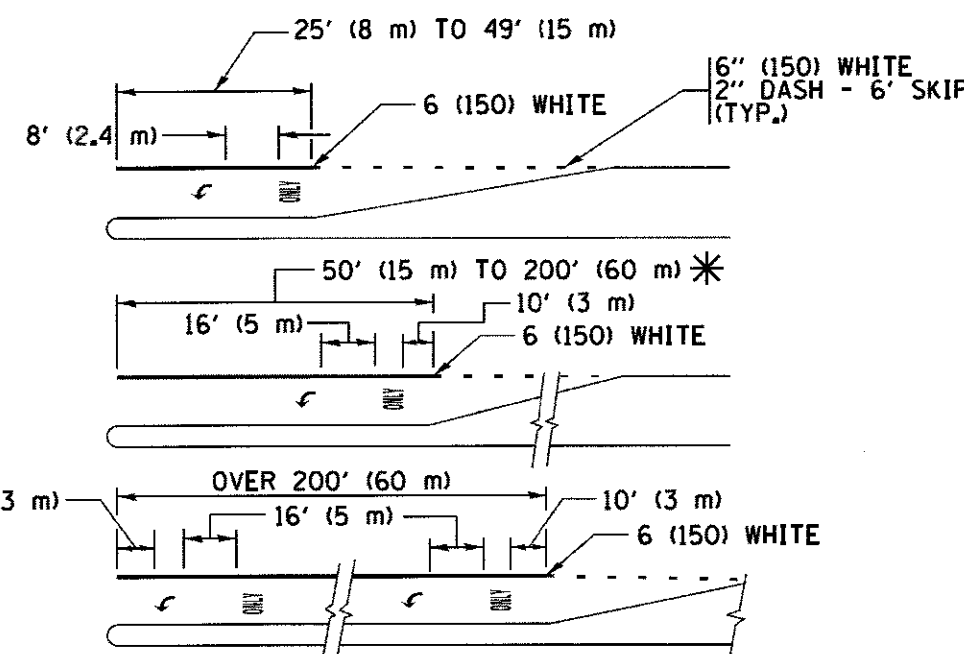
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

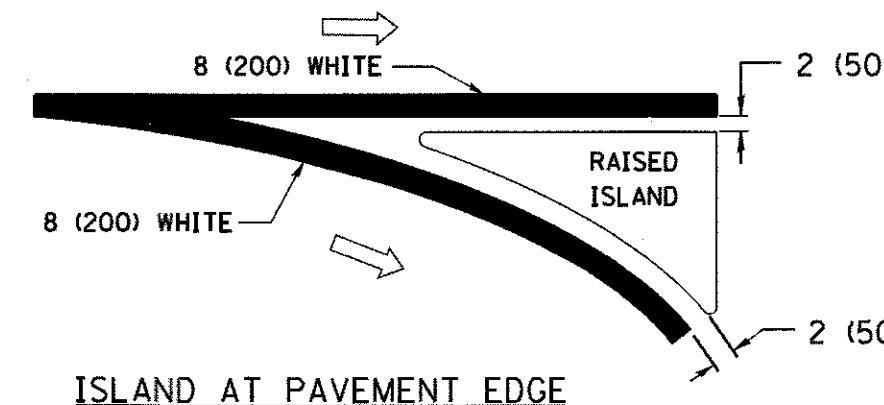
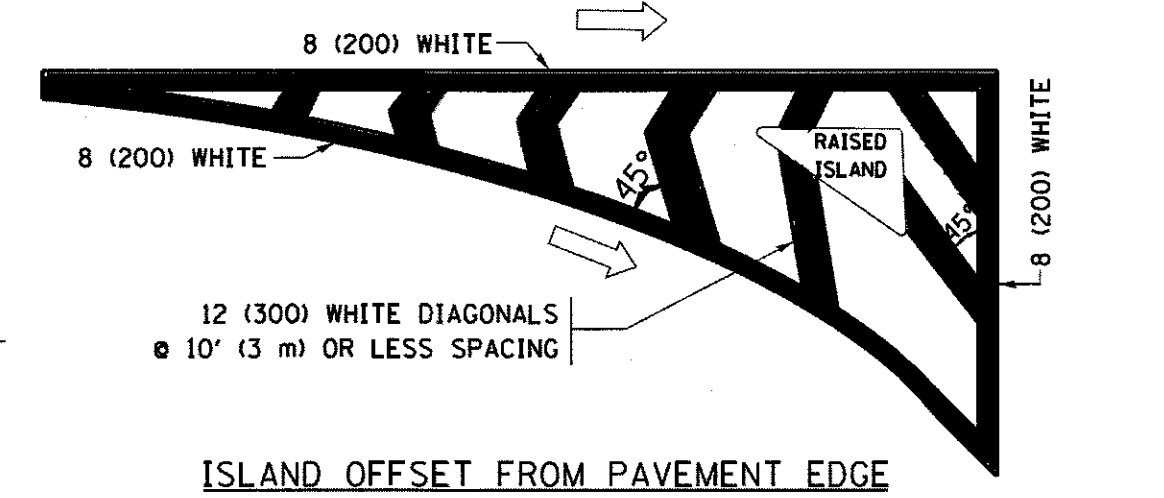


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

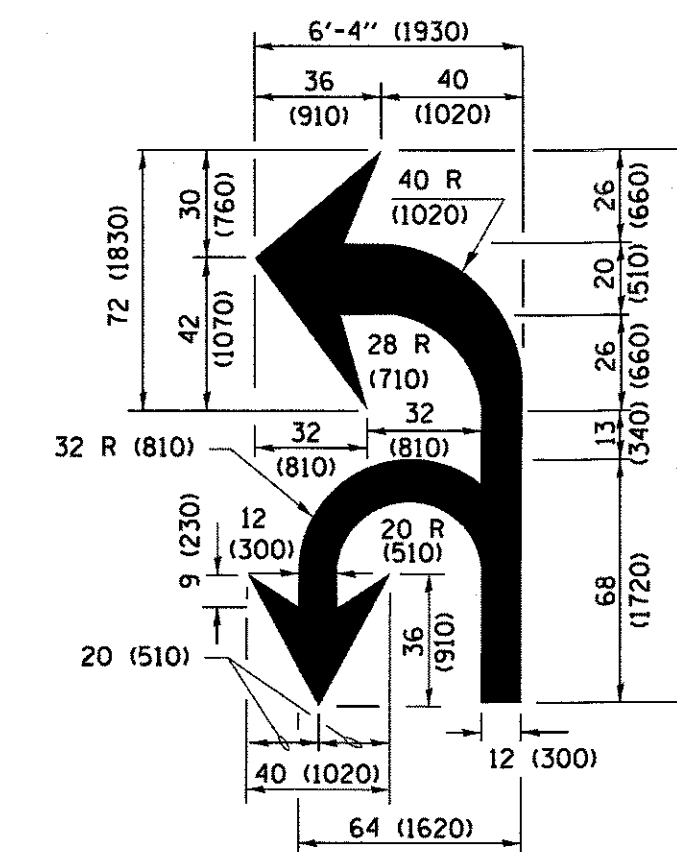
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

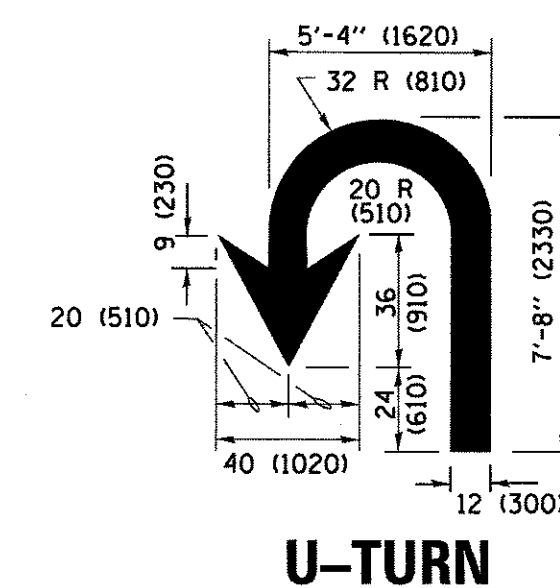
**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

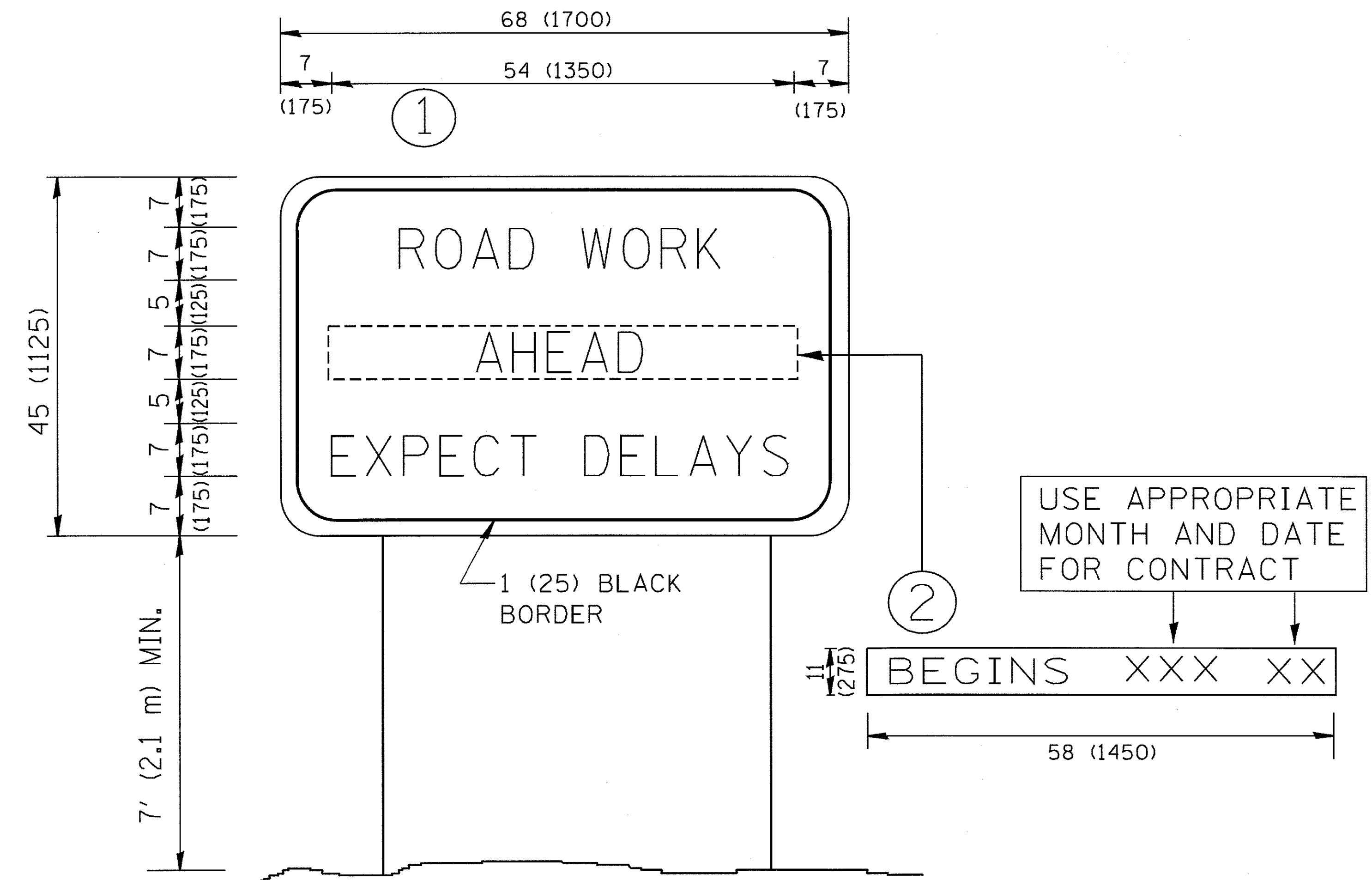
FILE NAME =	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PROJECT =	PROJECT =	DRAWN =	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 5/8,000 1/4 IN.	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-20-BR	KANE	177	126
TC-13			CONTRACT NO. 61D16	
ILLINOIS FED. AID PROJECT				

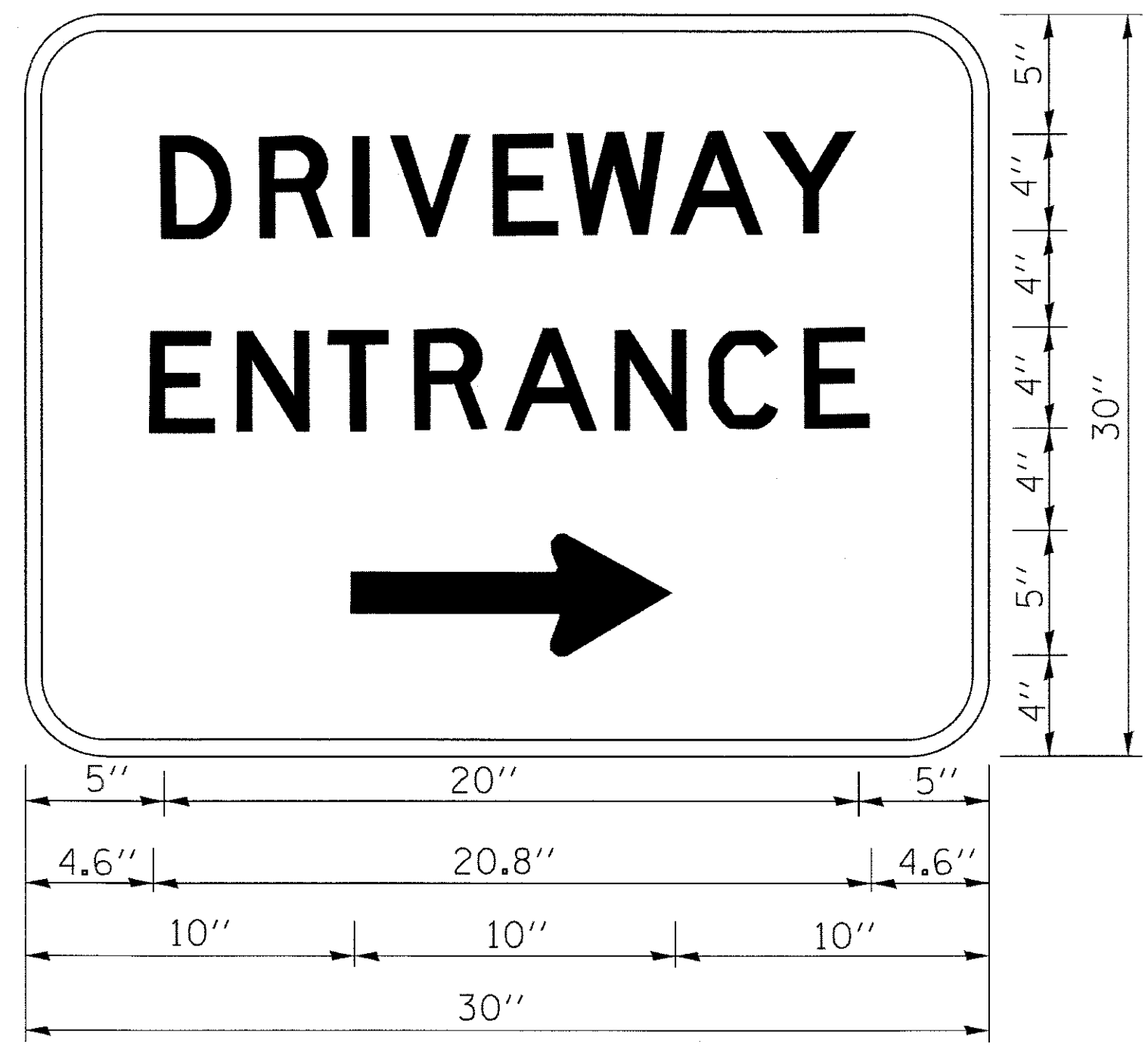


**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglianobt	DESIGNED -	REVISD - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISD - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2298	13-00215-20-BR	KANE	177	127
		PLOT SCALE = 50.000 "/ IN.	REVISD - T. RAMMACHER 02-02-99					<b>TC-22</b>		<b>CONTRACT NO. 61D16</b>		
		PLOT DATE = 1/4/2008	REVISD - C. JUCIUS 01-31-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

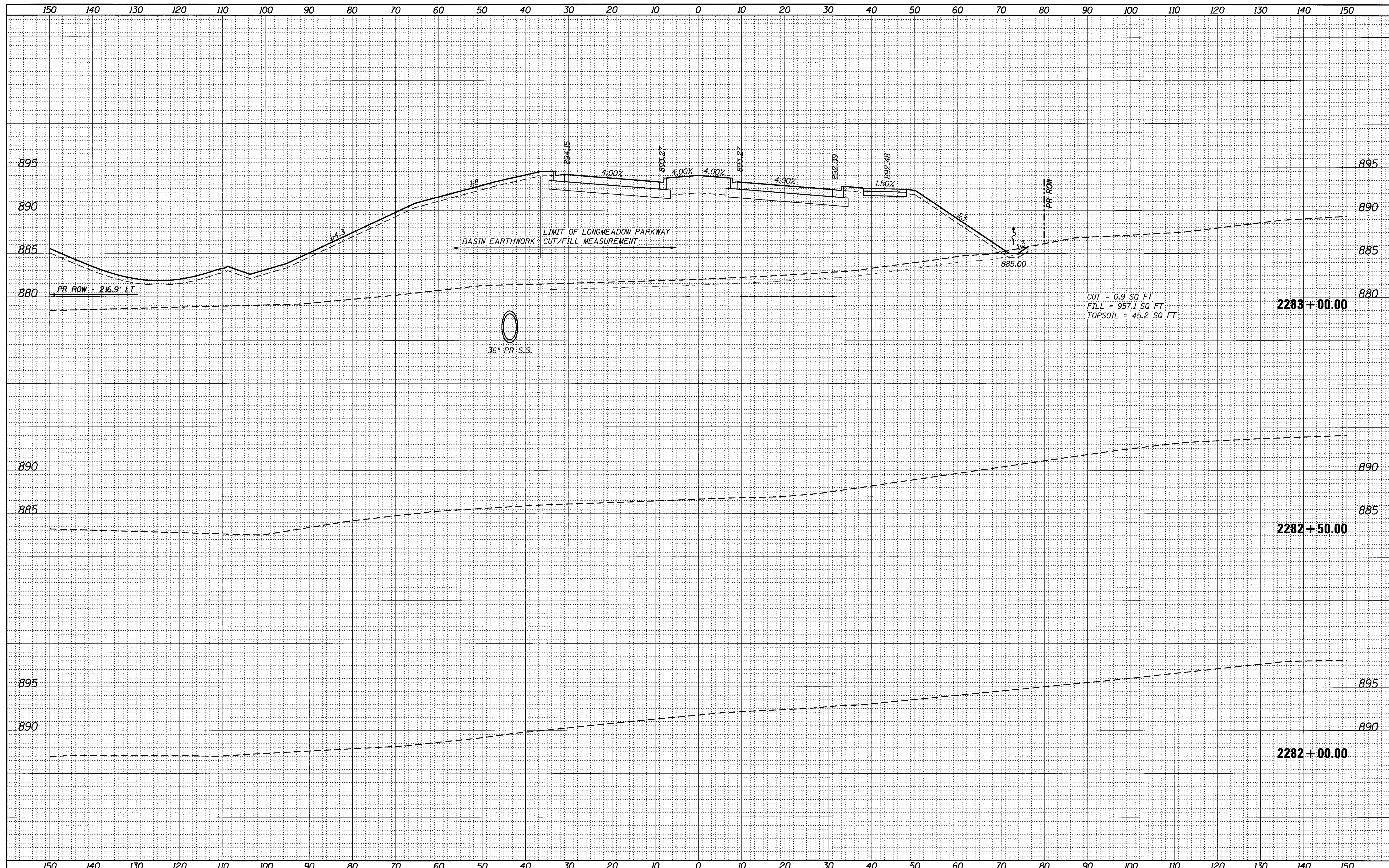
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = geglionobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRIVEWAY ENTRANCE SIGNING</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\gaglioniob\0108315\to	26.dgn	DRAWN -	REVISED -		2298	13-00215-20-BR	KANE	177	128			
	PLOT SCALE = 50.000 ' / 1".	CHECKED -	REVISED -		<b>TC-26</b>			<b>CONTRACT NO. 61D16</b>				
	PLOT DATE = 12/13/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			



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

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

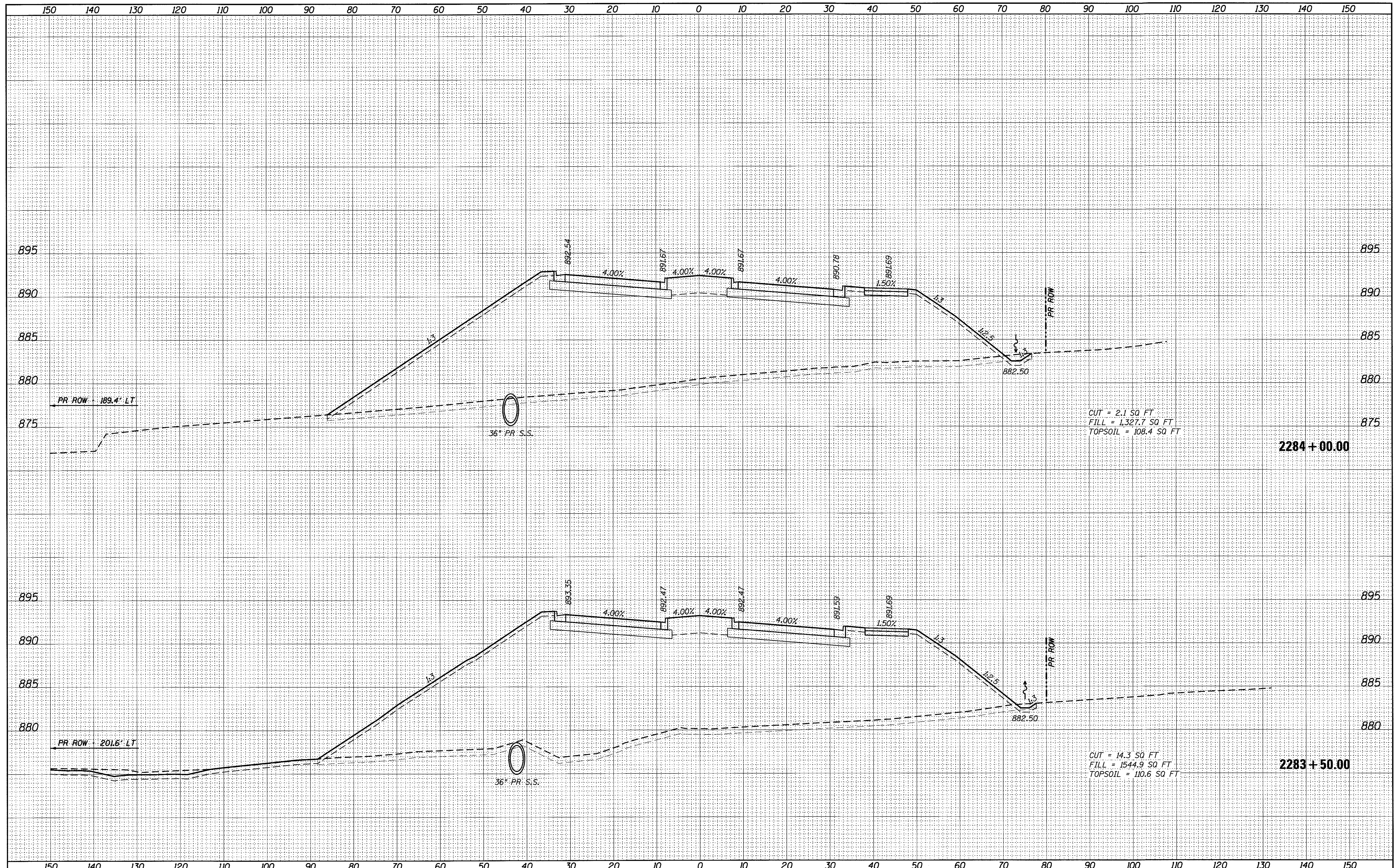


FILE NAME = 74754-sht-xssht.LMP.dgn	USER NAME = rjwang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b> SCALE: SHEET OF SHEETS STA. 2282+00.00 TO STA. 2283+00.00	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 129		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 61D16		ILLINOIS FED. AID PROJECT				
	PLOT DATE = 9/1/2017	DATE -	REVISED -									



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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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



CUT = 2.1 SQ FT  
 FILL = 1,327.7 SQ FT  
 TOPSOIL = 108.4 SQ FT

2284 + 00.00

CUT = 14.3 SQ FT  
 FILL = 1,544.9 SQ FT  
 TOPSOIL = 110.6 SQ FT

2283 + 50.00

FILE NAME = 74754-sht-xssh.LMP.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b> SCALE: SHEET OF SHEETS STA. 2283+50.00 TO STA. 2284+00.00	F.A.J. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 130		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 61D16		ILLINOIS FED. AID PROJECT				
	PLOT DATE = 9/1/2017	DATE -	REVISED -									













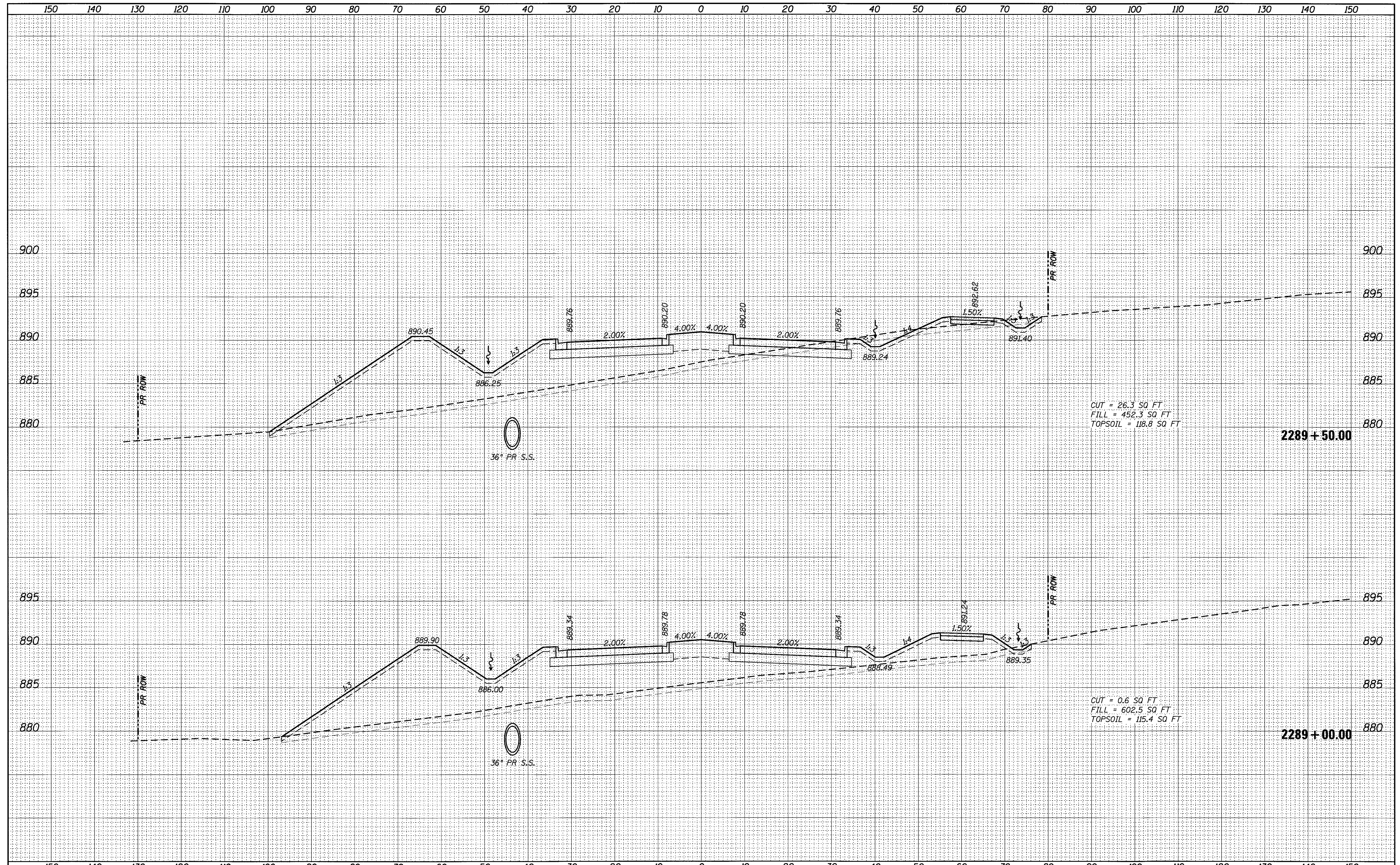






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AREAS CHECKED	

BY	DATE
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	



CUT = 26.3 SQ FT  
 FILL = 452.3 SQ FT  
 TOPSOIL = 118.8 SQ FT

CUT = 0.6 SQ FT  
 FILL = 602.5 SQ FT  
 TOPSOIL = 115.4 SQ FT

FILE NAME = 74754-sht-xssht\_LMP.dgn  
 USER NAME = rjlang  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

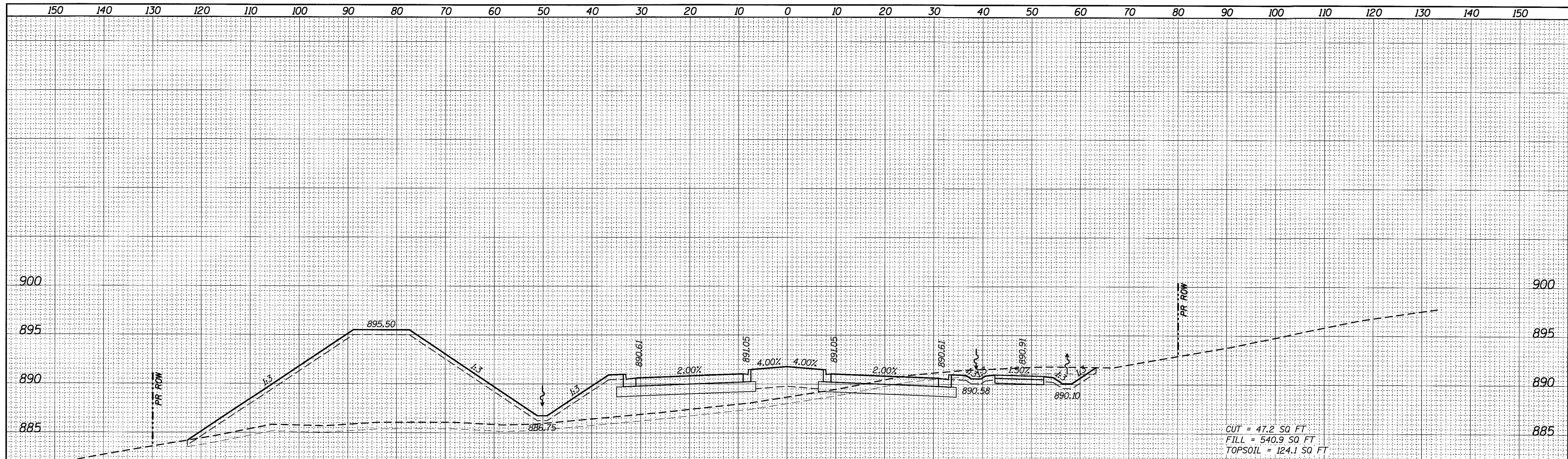
**LONGMEADOW PARKWAY CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 2289+00.00 TO STA. 2289+50.00

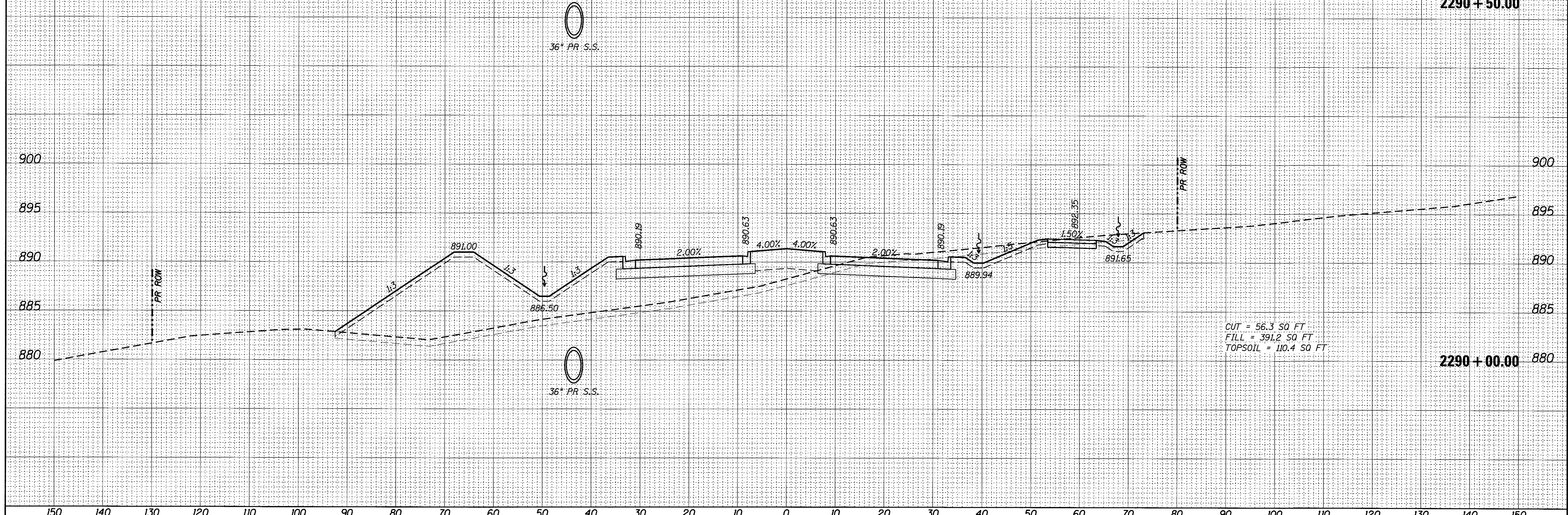
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	135
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	DATE
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NOTE BOOK	
AREAS CHECKED	
NO.	



ORIGINAL SURVEY	DATE
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 74754-shr-xssht_LMP.dgn	USER NAME = rjiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 136		
Default	PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -			SCALE:	SHEET OF SHEETS	STA. 2290+00.00 TO STA. 2290+50.00	CONTRACT NO. 61D16			
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

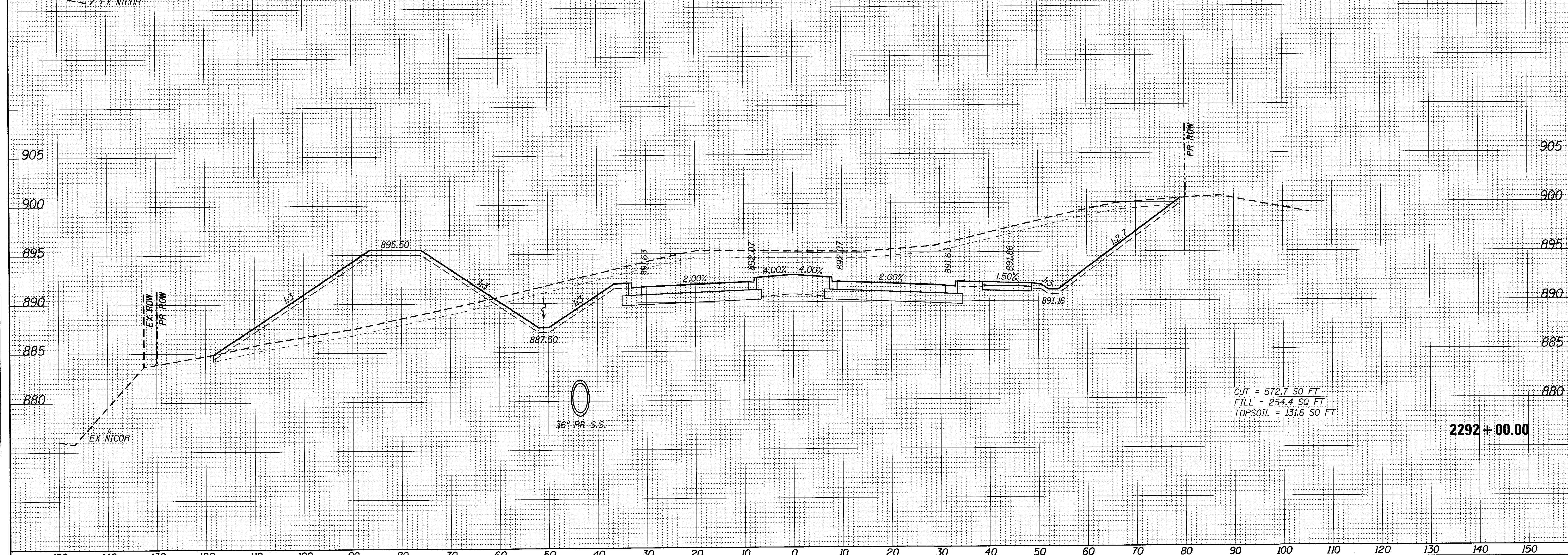
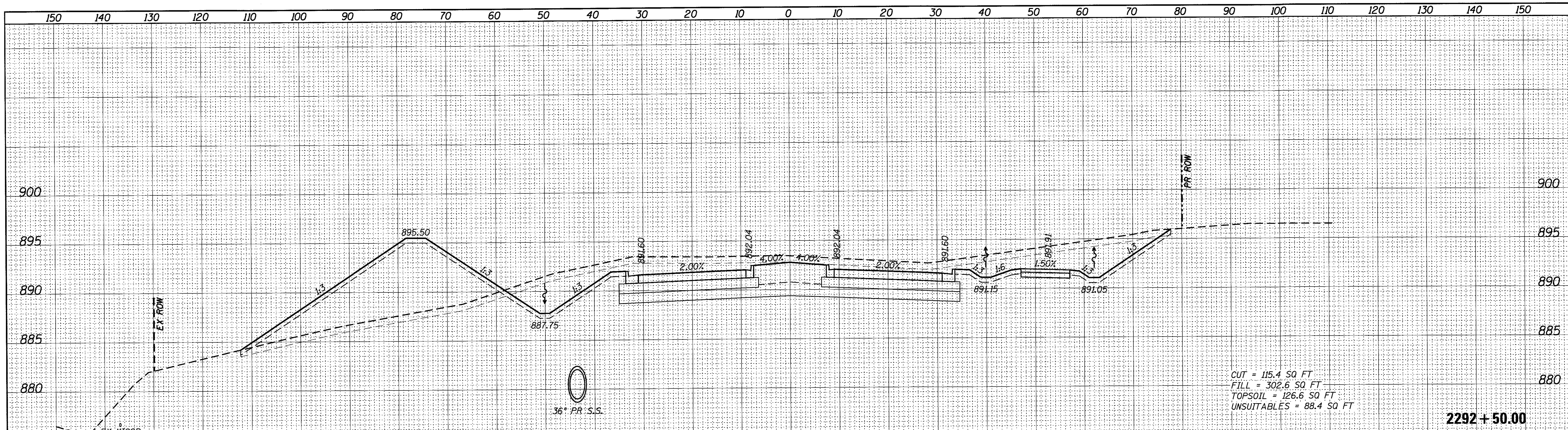






FINAL	SURVEYED	DATE
SURVEY	PLANNED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

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



FILE NAME = 74754-sht-xssht.LMP.dgn	USER NAME = rjiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 138
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 2292+00.00 TO STA. 2292+50.00	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -							CONTRACT NO. 61D16		
		DATE -	REVISED -									

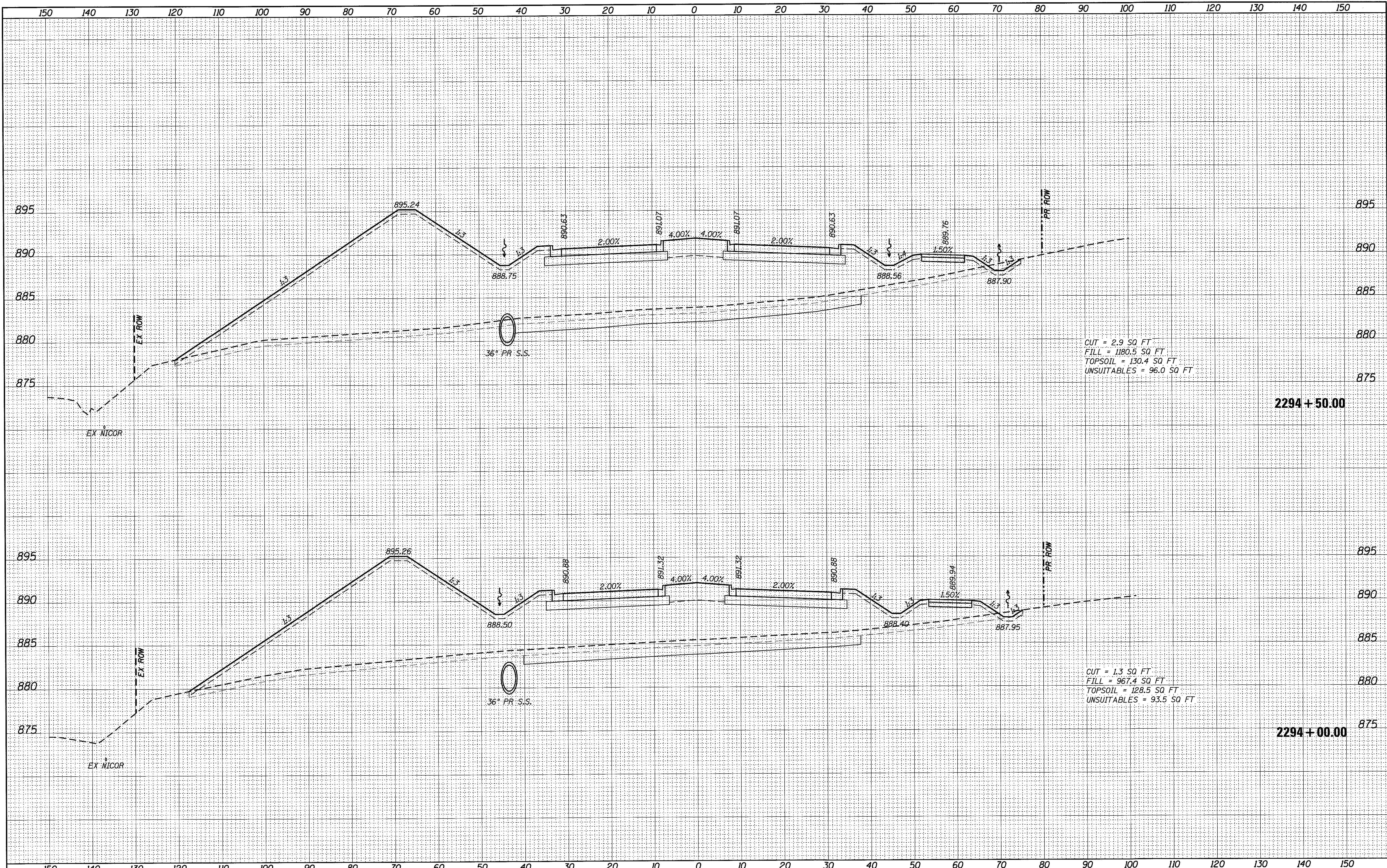






FINAL SURVEY	DATE
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NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



CUT = 2.9 SQ FT  
 FILL = 1180.5 SQ FT  
 TOPSOIL = 130.4 SQ FT  
 UNSUITABLES = 96.0 SQ FT

CUT = 1.3 SQ FT  
 FILL = 967.4 SQ FT  
 TOPSOIL = 128.5 SQ FT  
 UNSUITABLES = 93.5 SQ FT

FILE NAME = 74754-sht-xssht.LMP.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 140
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 2294+00.00	TO STA. 2294+50.00	CONTRACT NO. 61D16	
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									





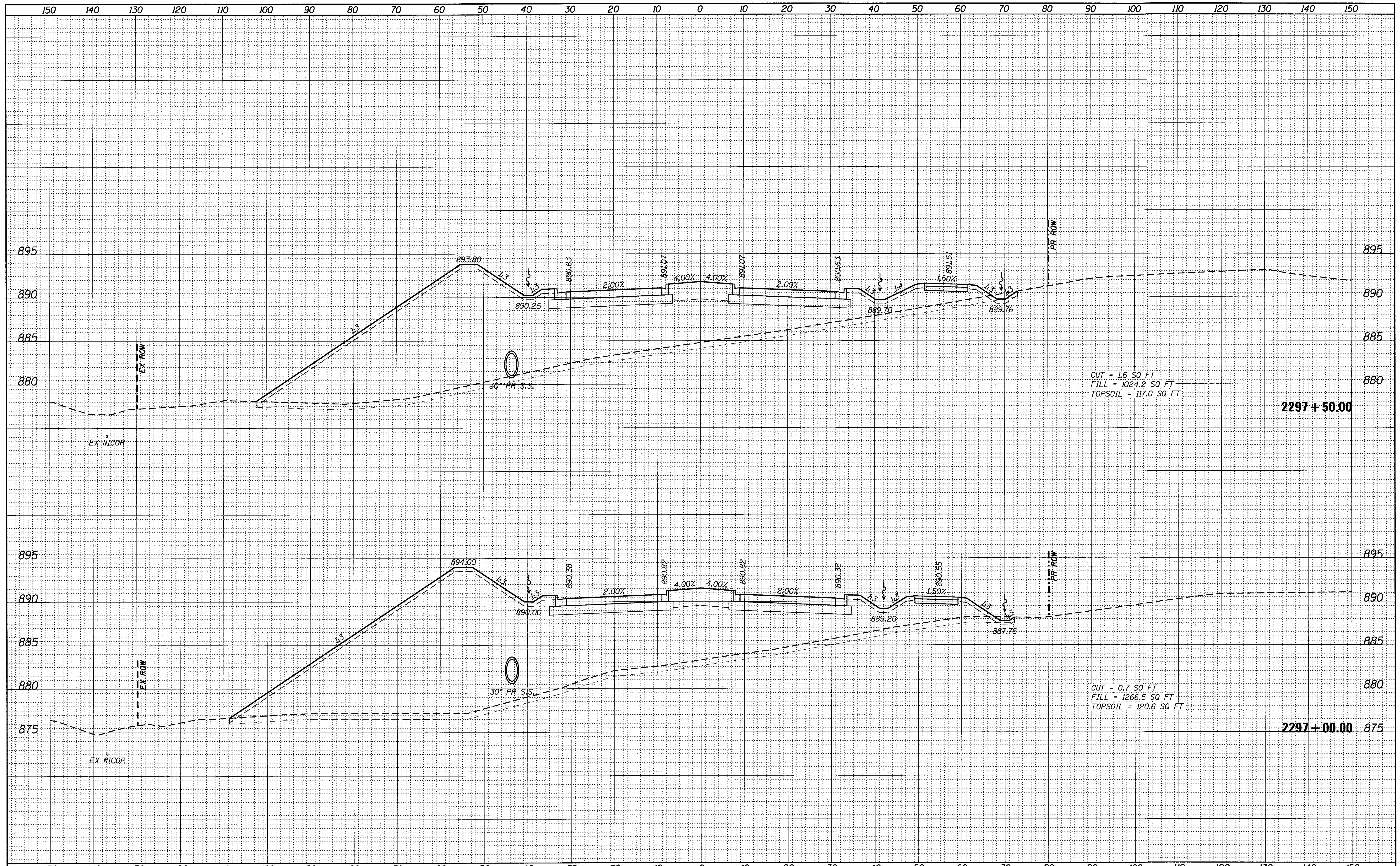






FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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FILE NAME = 74754-sht-xssht\_LMP.dgn  
 USER NAME = r.jiang  
 PLOT SCALE = 16.0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED -	REVISED -
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CHECKED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LONGMEADOW PARKWAY CROSS SECTIONS**

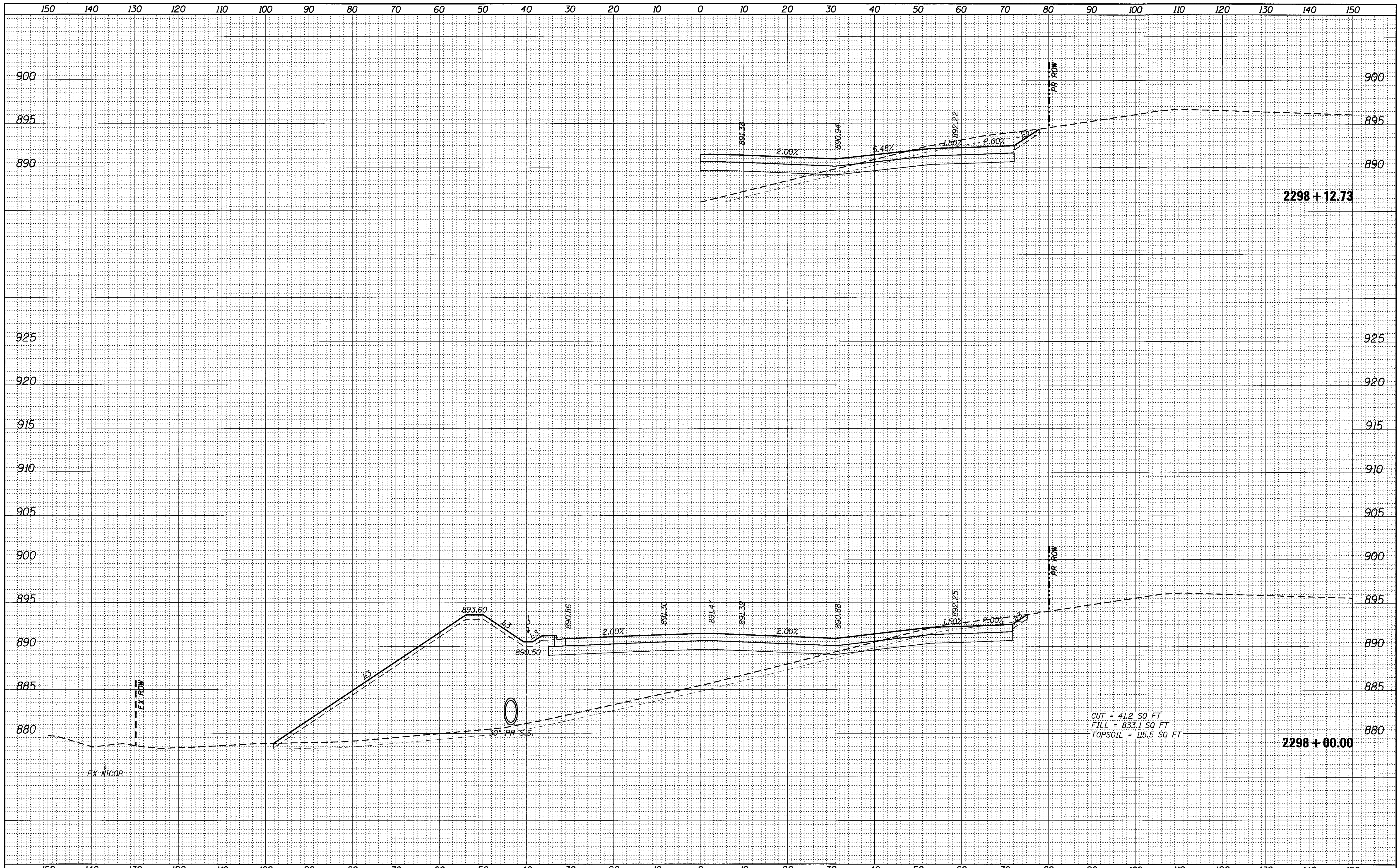
SCALE: SHEET OF SHEETS STA. 2297+00.00 TO STA. 2297+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	143
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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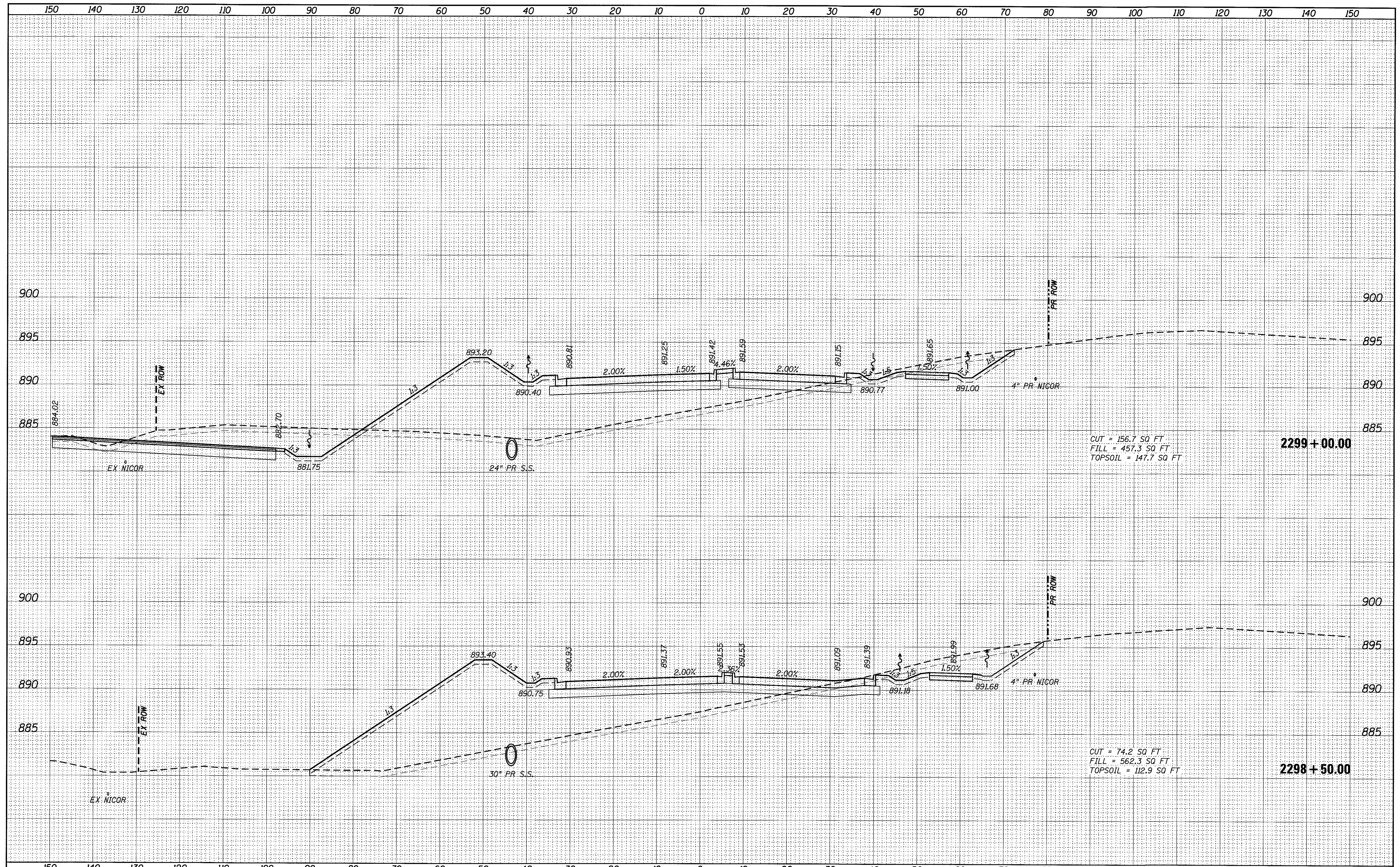
CUT = 41.2 SQ FT  
 FILL = 833.1 SQ FT  
 TOPSOIL = 115.5 SQ FT

FILE NAME = 74754-sht-xsht.LMP.dgn	USER NAME = rjwang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 144
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 2298+00.00	TO STA. 2298+12.73	CONTRACT NO. 61D16	
	PLOT DATE = 9/11/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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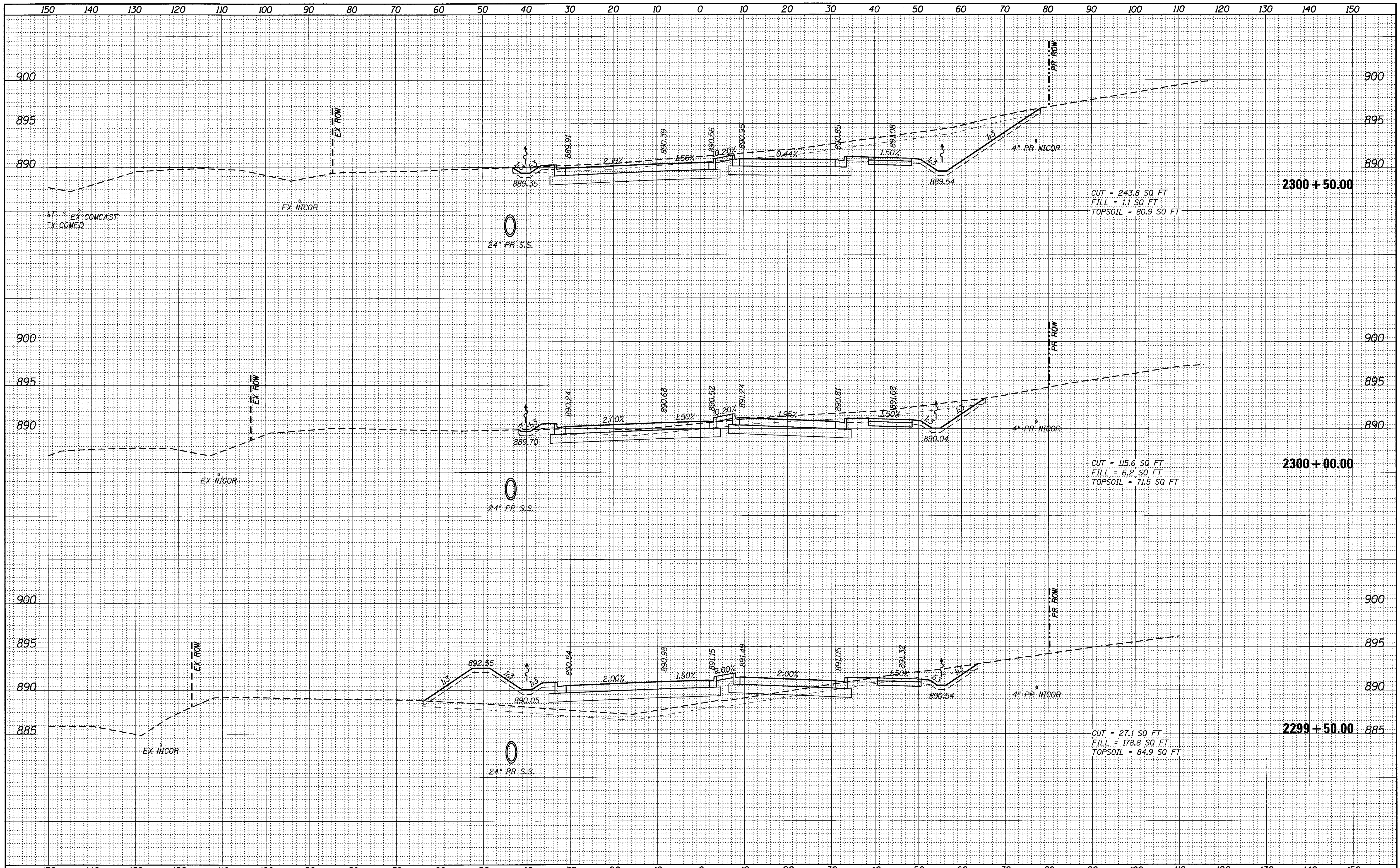


FILE NAME = 74754-shr-xssh.LMP.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 145	
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 2298+50.00 TO STA. 2299+00.00	CONTRACT NO. 61D16
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



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FINAL SURVEY	
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FILE NAME = 74754-sht-ssht\_LMP.dgn  
 USER NAME = rjiang  
 PLOT SCALE = 10.0000' / 1" =  
 PLOT DATE = 9/1/2017

DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LONGMEADOW PARKWAY CROSS SECTIONS**

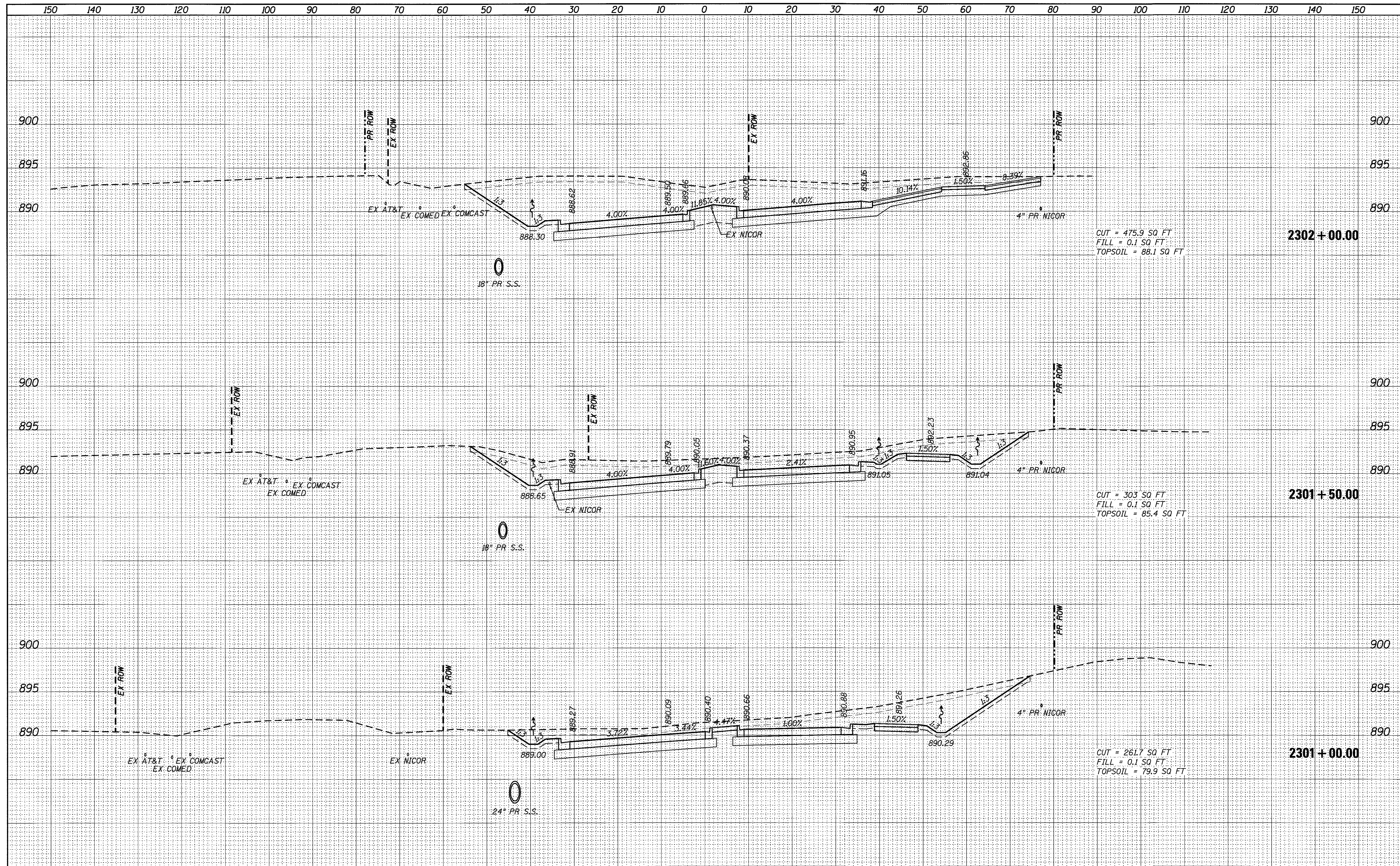
SCALE: SHEET OF SHEETS STA. 2299+50.00 TO STA. 2300+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	146
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

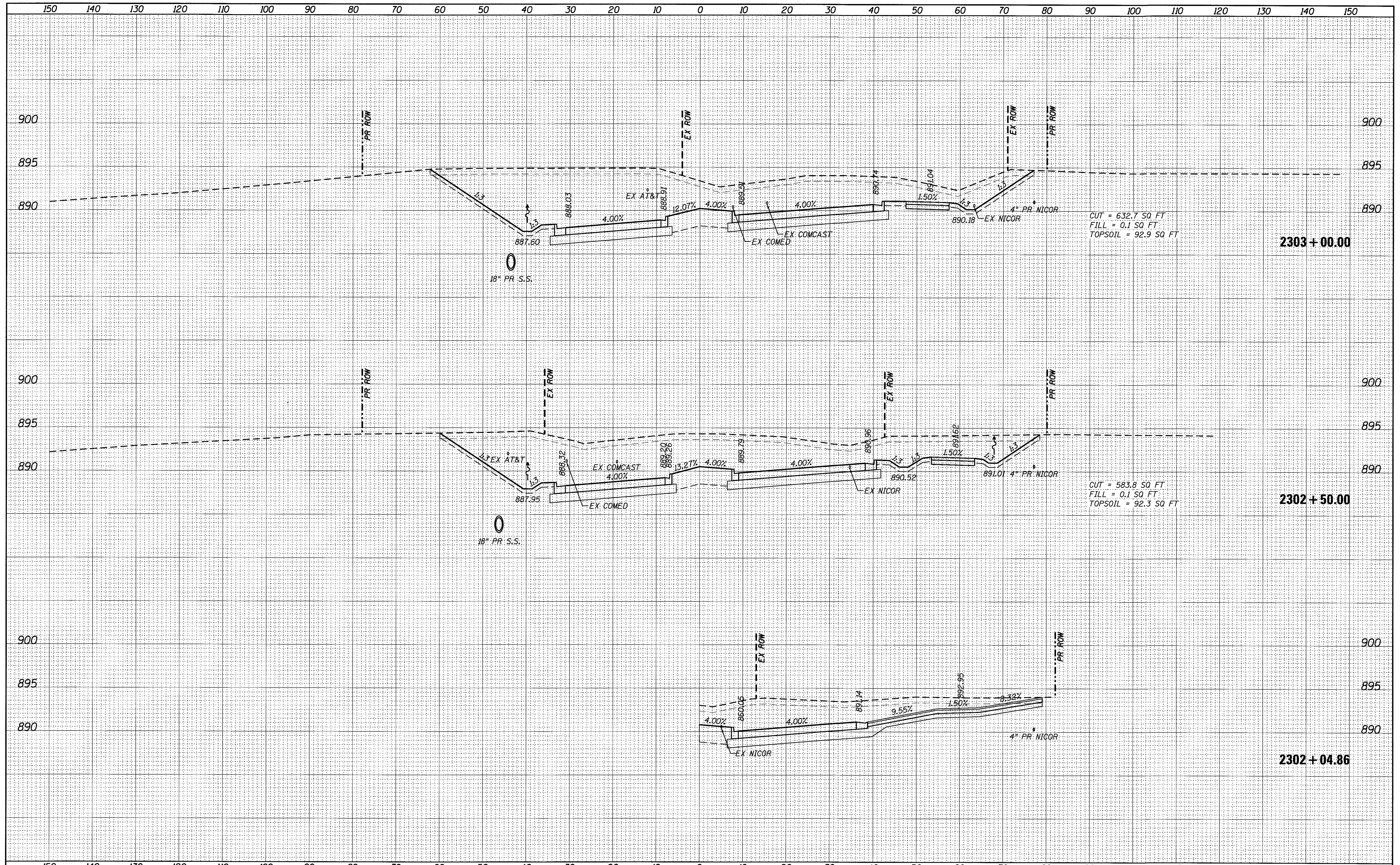


FILE NAME = 74754-sht-xssht_LMP.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LONGMEADOW PARKWAY CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 147
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 2301+00.00 TO STA. 2302+00.00	CONTRACT NO. 61D16		
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



BY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 74754-shs-xssht.LMP.dgn  
 USER NAME = r.jiang  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LONGMEADOW PARKWAY CROSS SECTIONS**

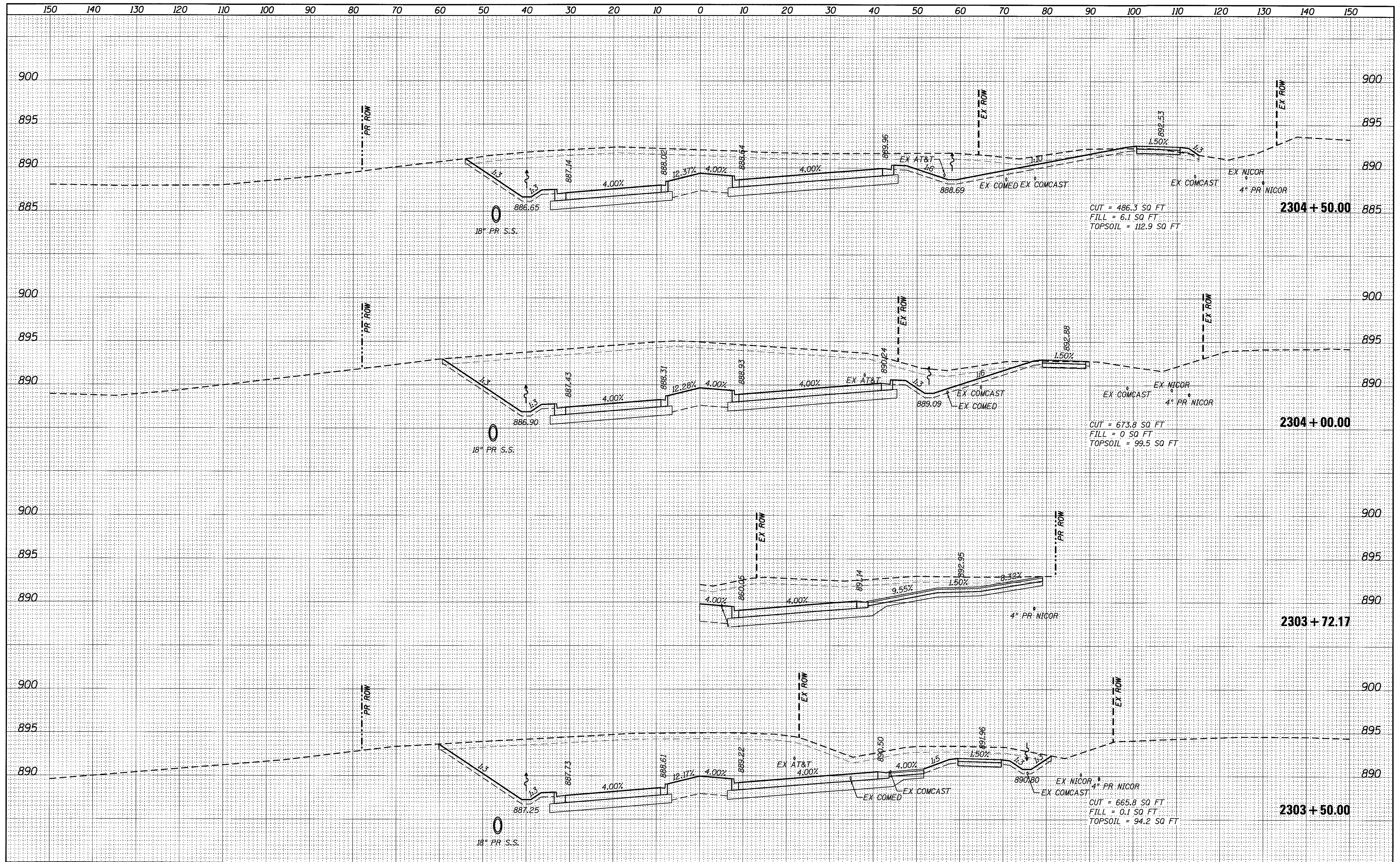
SCALE: SHEET OF SHEETS STA. 2302+04.86 TO STA. 2303+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	148
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	



FINAL	DATE
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FILE NAME = 74754-shr-xshht.LMP.dgn  
 USER NAME = r.jiang  
 PLOT SCALE = 10,0000' / in.  
 PLOT DATE = 9/1/2017

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LONGMEADOW PARKWAY CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 2303+50.00 TO STA. 2304+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	149
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	

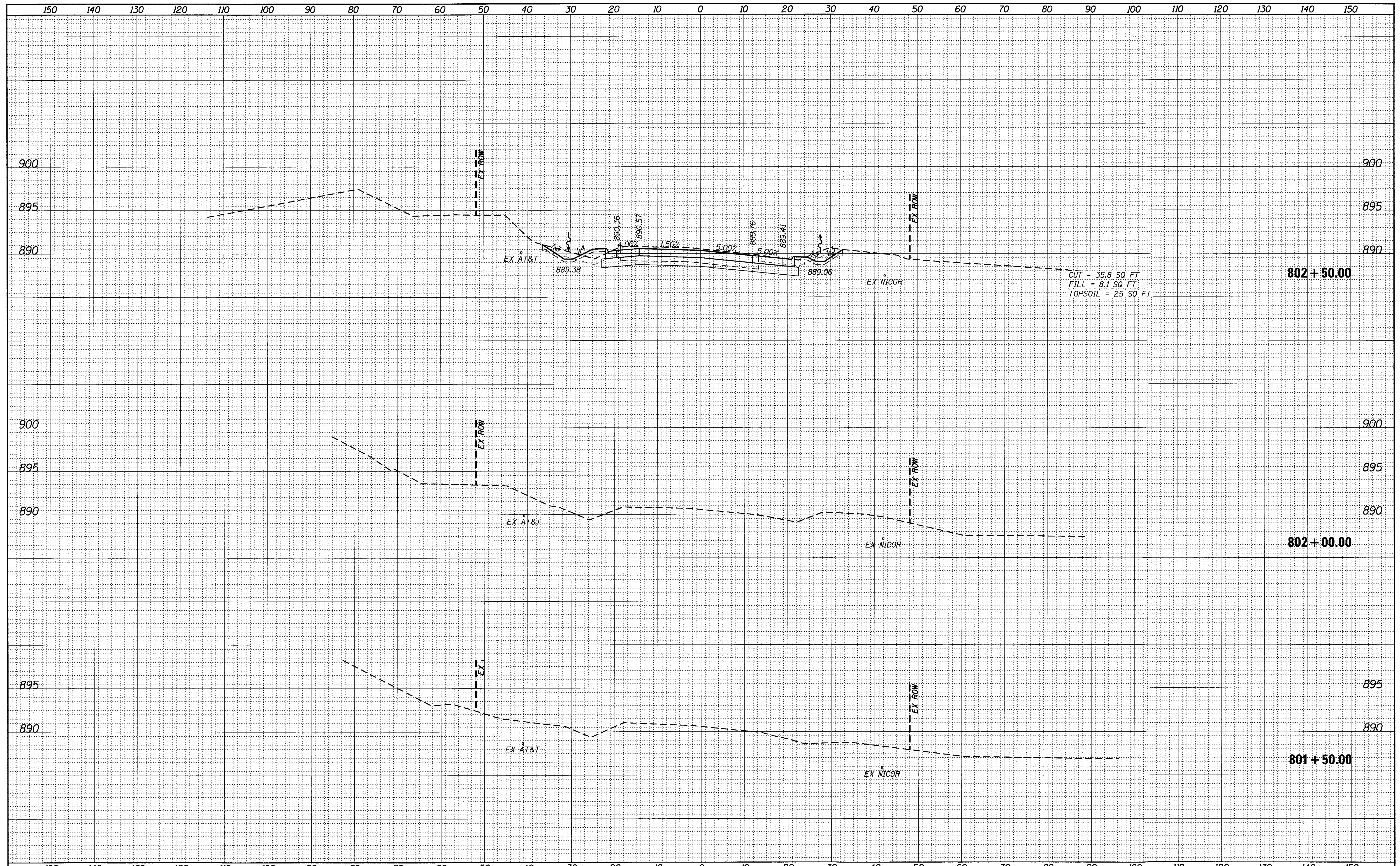






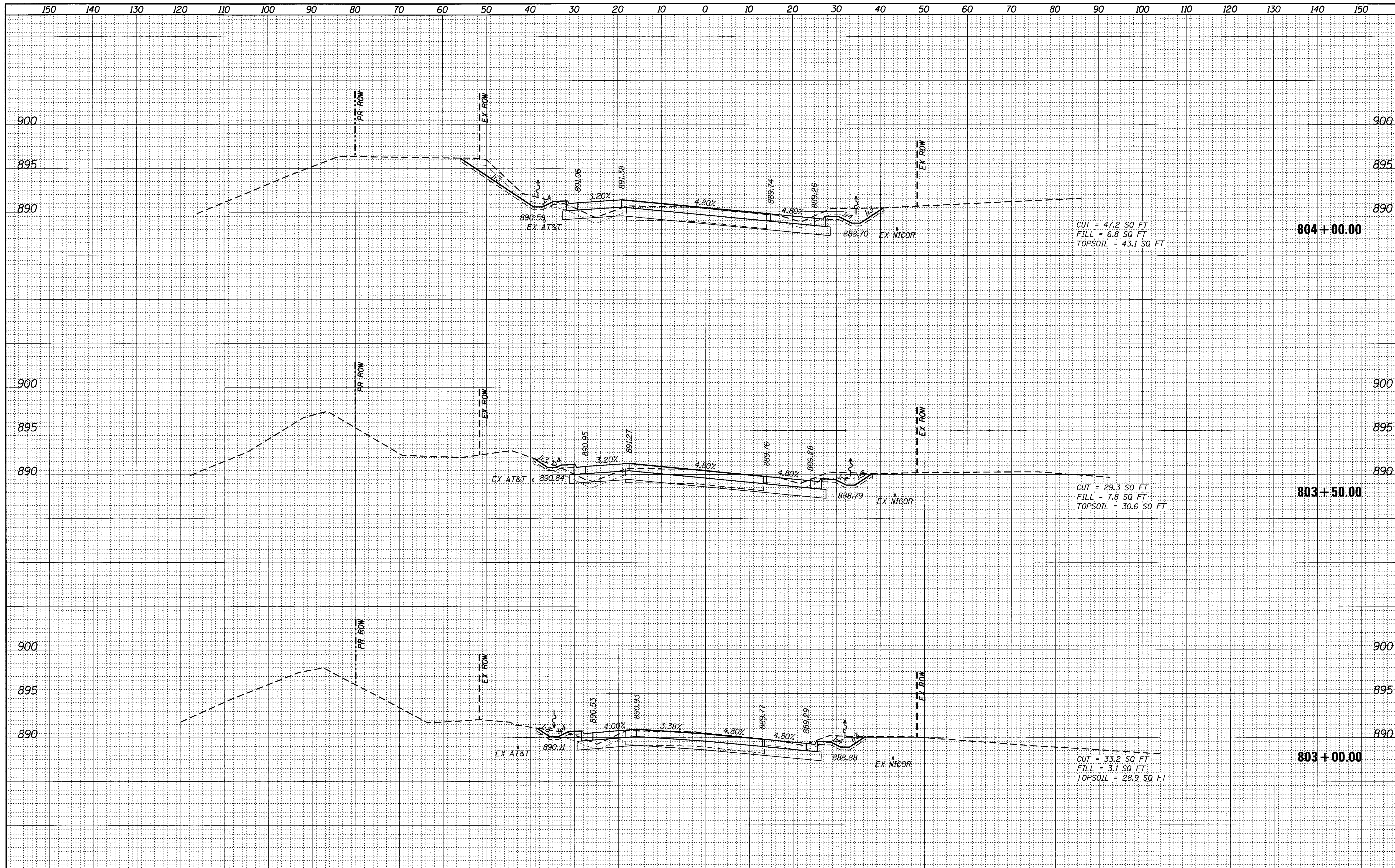
FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	



FILE NAME = 74754-sht-xssht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>				F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 151
Default	PLOT SCALE = 10.00000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 801+50.00	TO STA. 802+50.00	CONTRACT NO. 61D16		
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										





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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 74754-shr-xshht\_62.dgn  
 Default

USER NAME = r.jiang  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 62 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 803+00.00 TO STA. 804+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	152
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	

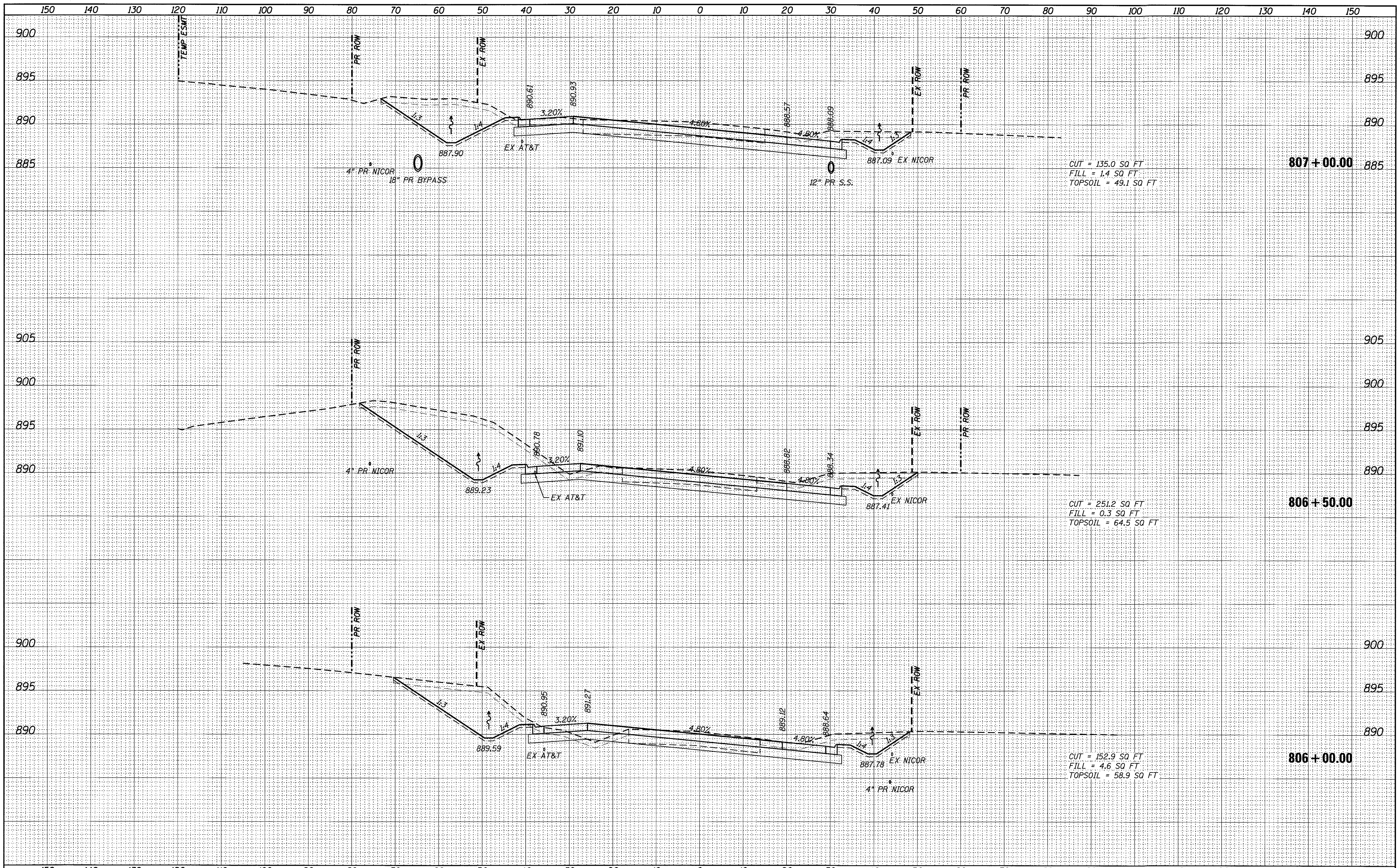






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FILE NAME = 74754-sht-xssht\_62.dgn  
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USER NAME = r.jiang	DESIGNED -	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 9/1/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 62 CROSS SECTIONS**

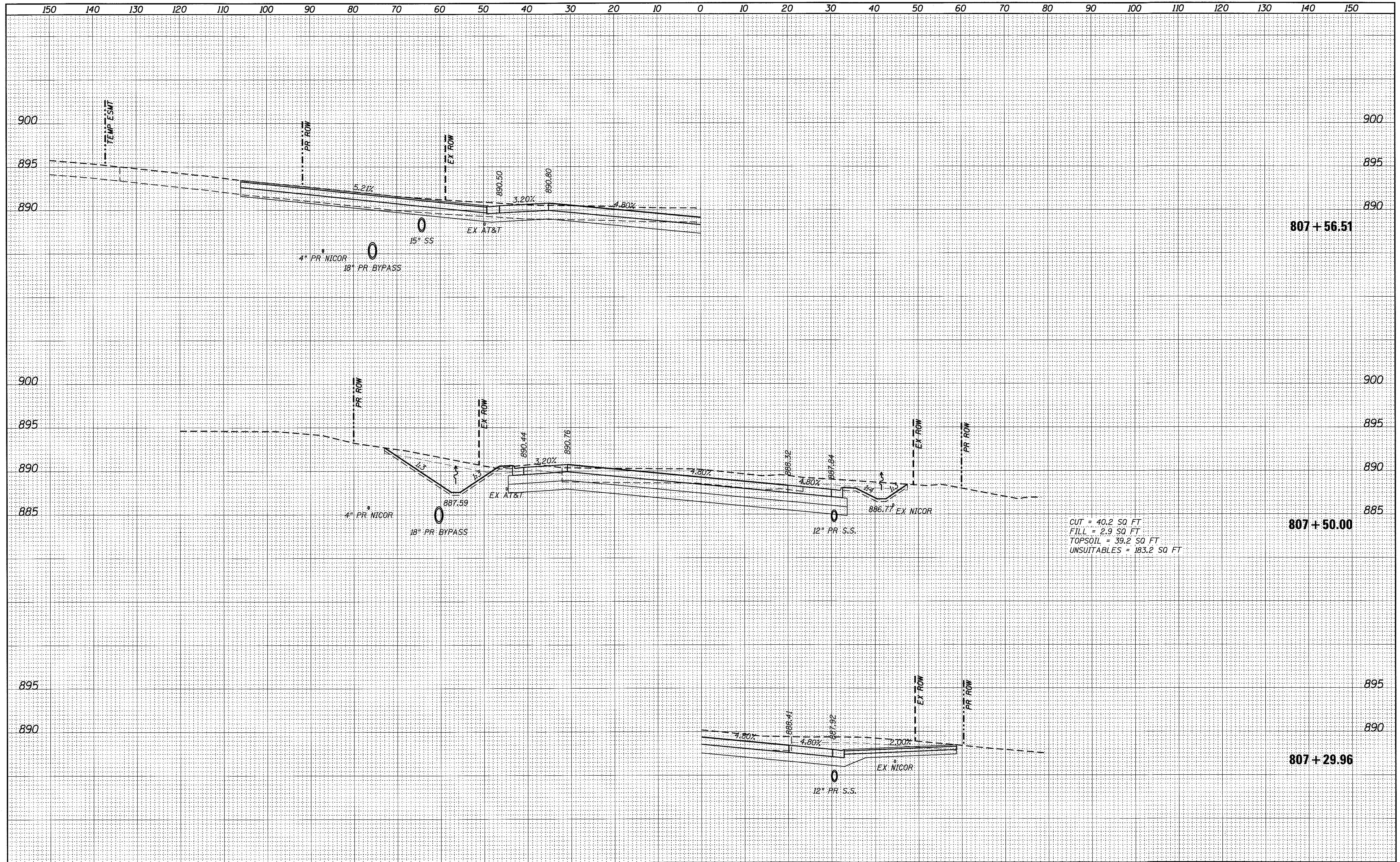
SCALE: SHEET OF SHEETS STA. 806+00.00 TO STA. 807+00.00

F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 154
CONTRACT NO. 61D16				ILLINOIS FED. AID PROJECT



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
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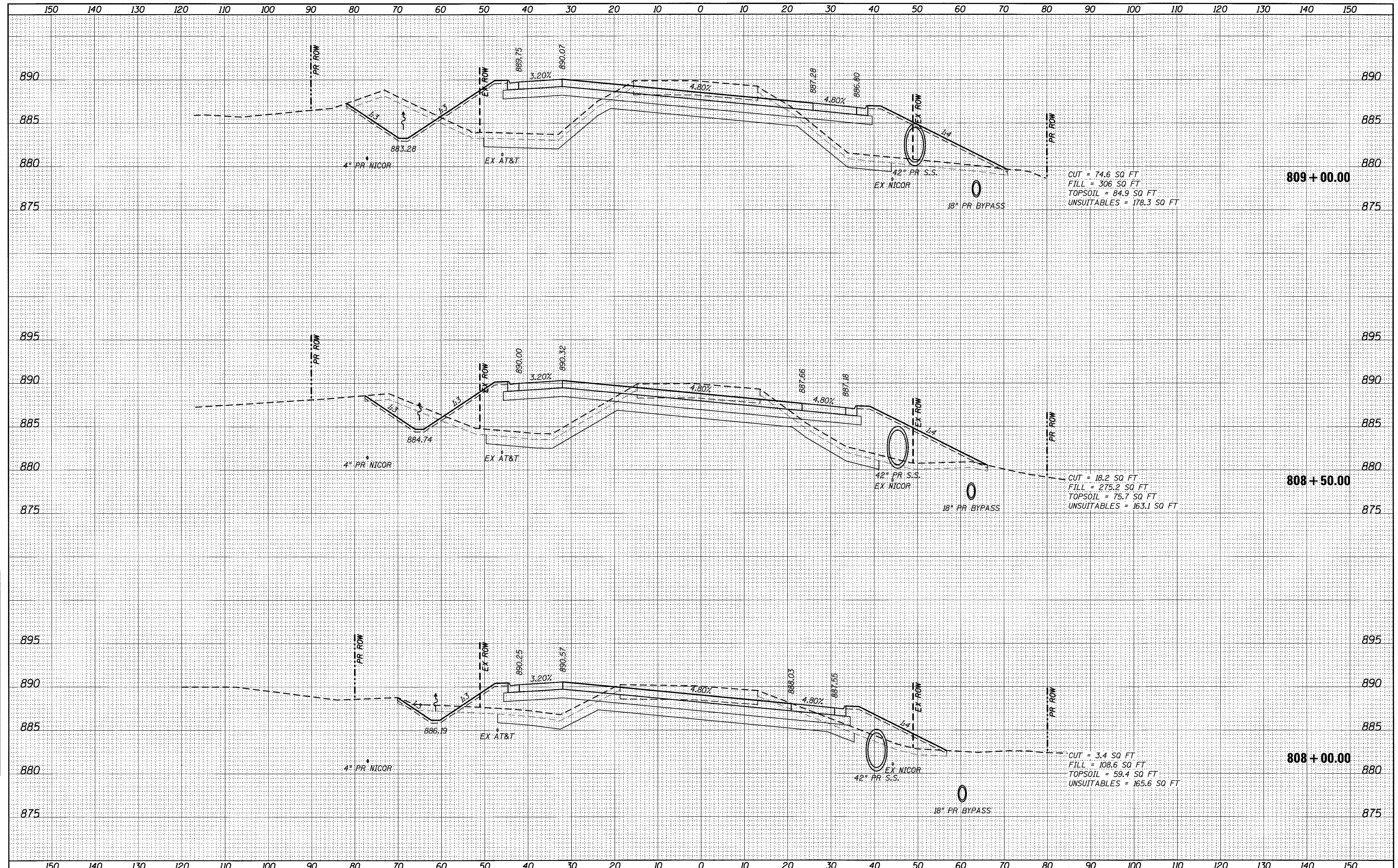
CUT = 40.2 SQ FT  
 FILL = 2.9 SQ FT  
 TOPSOIL = 39.2 SQ FT  
 UNSUITABLES = 183.2 SQ FT

FILE NAME = 74754-sht-xsh-t_62.dgn	USER NAME = rjlang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 155
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 807+29.96	TO STA. 807+56.51	ILLINOIS FED. AID PROJECT CONTRACT NO. 61D16	
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -									
		DATE -	REVISED -									



DATE	
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FINAL SURVEY	SURVEYED
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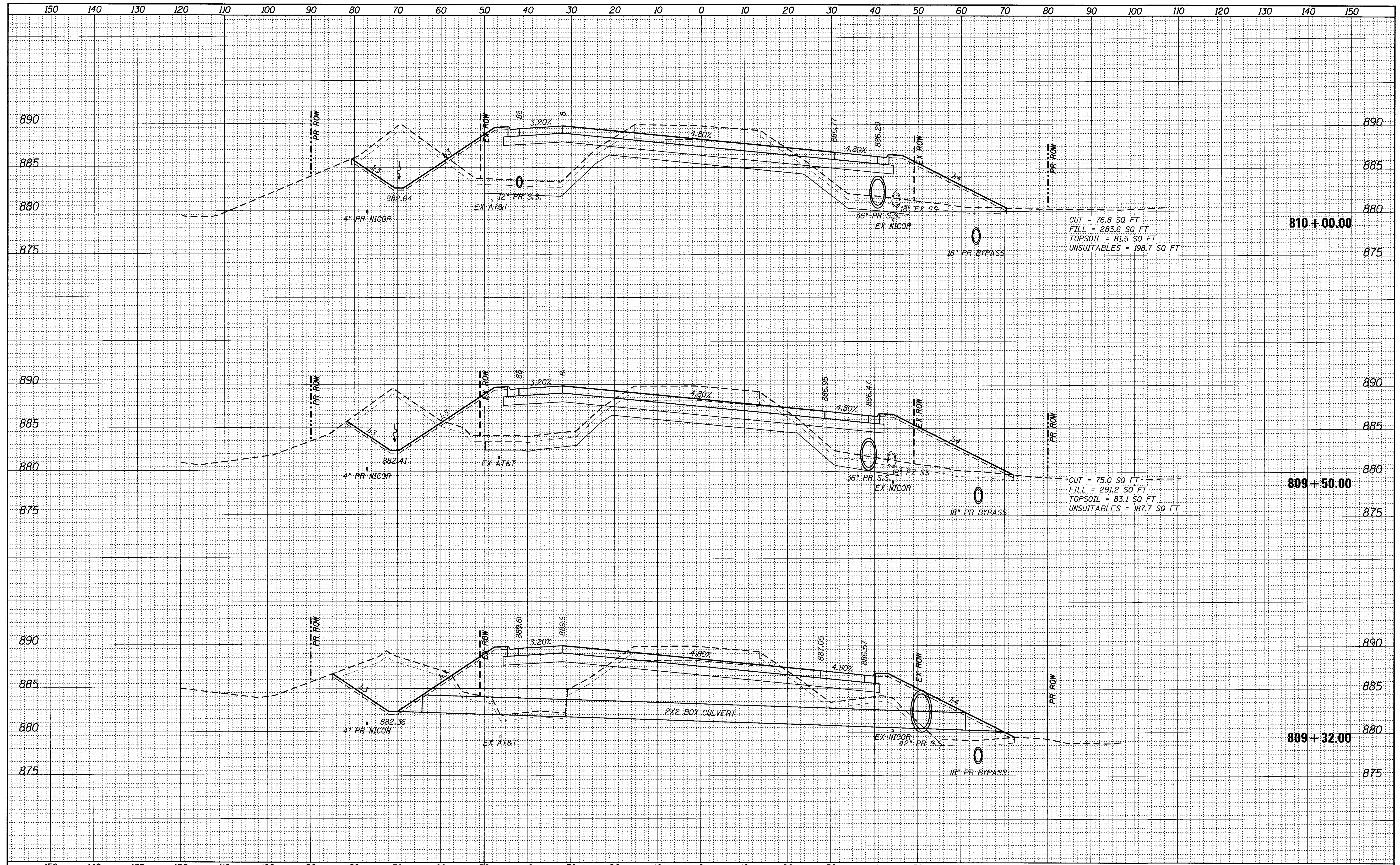


FILE NAME = 74754-sht-xsht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 156		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. 808+00.00 TO STA. 809+00.00	CONTRACT NO. 61D16					
	PLOT DATE = 9/12/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						



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AREAS CHECKED	

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SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



CUT = 76.8 SQ FT  
 FILL = 283.6 SQ FT  
 TOPSOIL = 81.5 SQ FT  
 UNSUITABLES = 198.7 SQ FT

CUT = 75.0 SQ FT  
 FILL = 291.2 SQ FT  
 TOPSOIL = 83.1 SQ FT  
 UNSUITABLES = 187.7 SQ FT

FILE NAME = 74754-shr-xssht.62.dgn  
 Default

USER NAME = rjiang  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED	-	REVISED	-
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DATE	-	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 62 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 809+32.00 TO STA. 810+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	157
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				

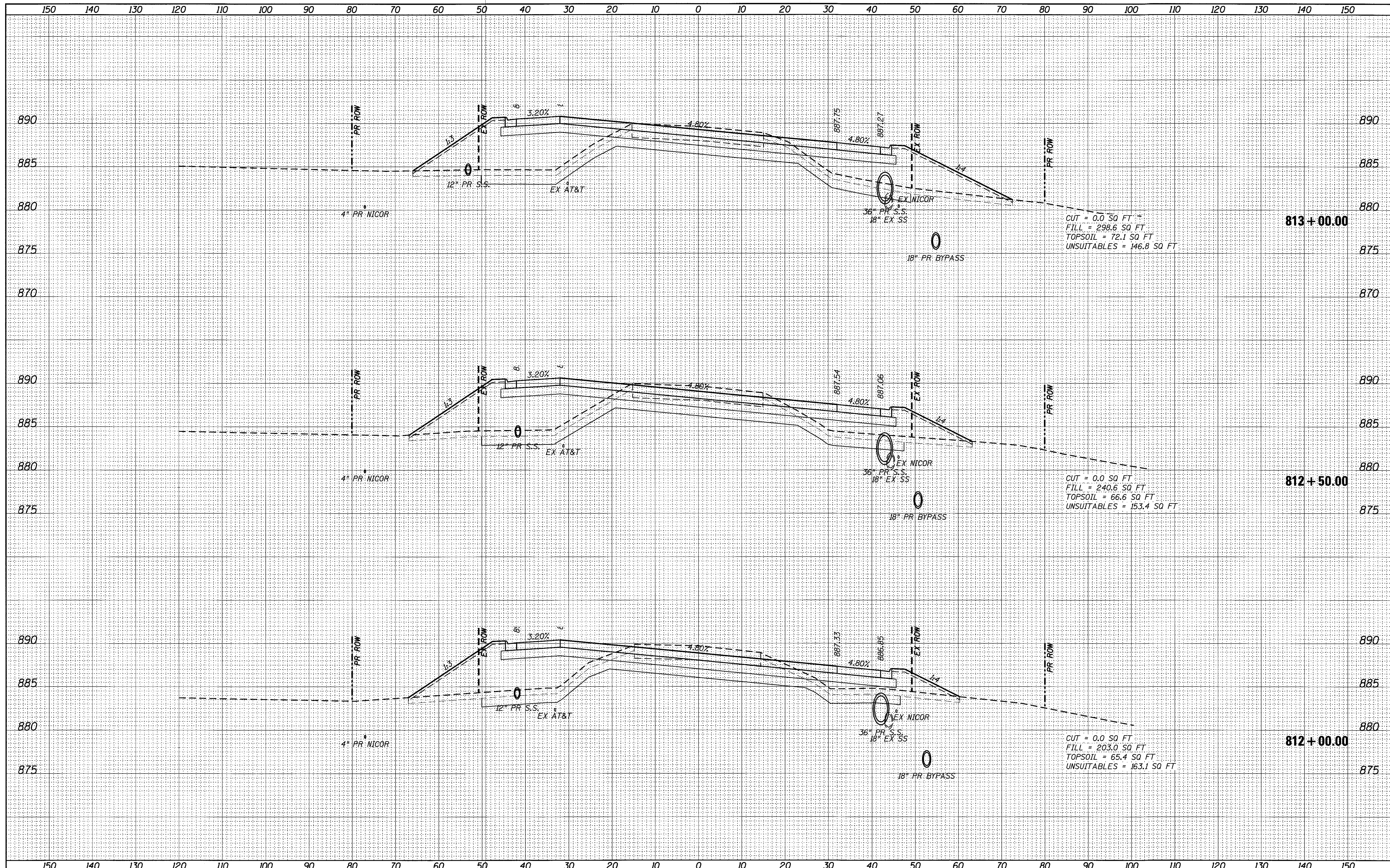






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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 74754-ah-t-xasht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	ILLINOIS ROUTE 62 CROSS SECTIONS			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 159
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 812+00.00	TO STA. 813+00.00	CONTRACT NO. 61D16	
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -									

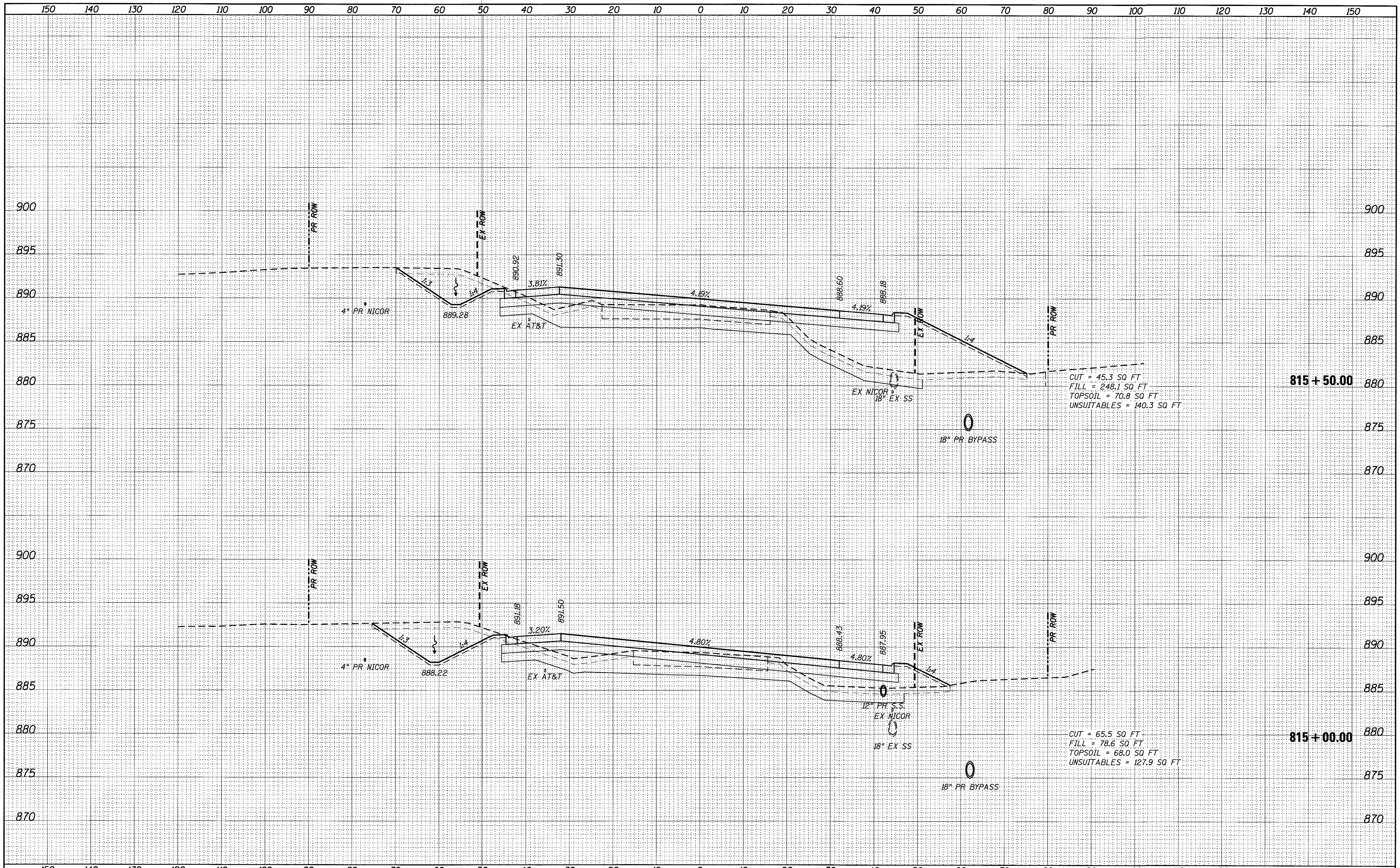






FINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		

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



CUT = 45.3 SQ FT  
 FILL = 248.1 SQ FT  
 TOPSOIL = 70.8 SQ FT  
 UNSUITABLES = 140.3 SQ FT

CUT = 65.5 SQ FT  
 FILL = 78.6 SQ FT  
 TOPSOIL = 68.0 SQ FT  
 UNSUITABLES = 127.9 SQ FT

FILE NAME = 74754-sht-xssht\_62.dgn  
 USER NAME = r.jiang

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 62 CROSS SECTIONS**

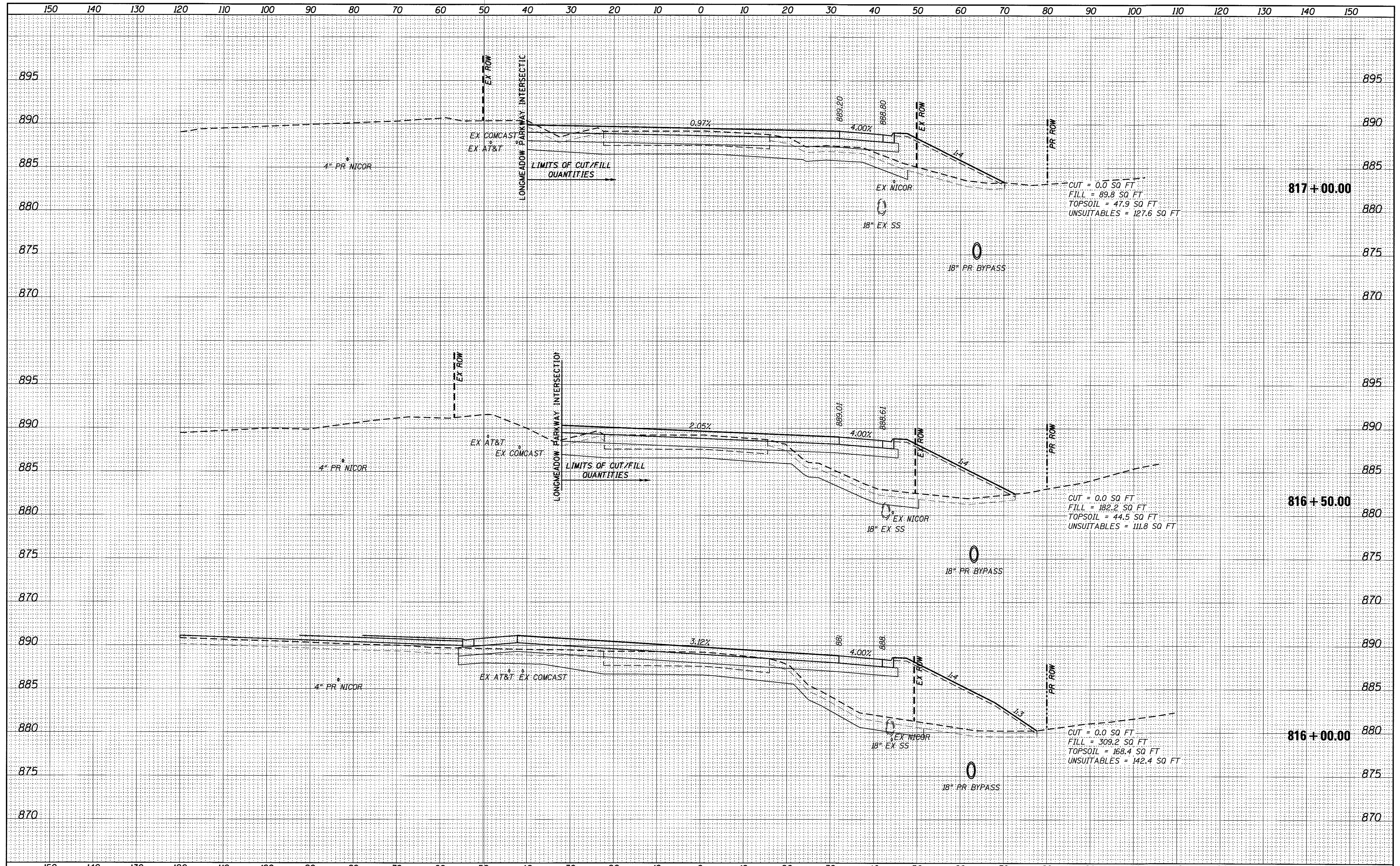
SCALE: SHEET OF SHEETS STA. 815+00.00 TO STA. 815+50.00

F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 161
CONTRACT NO. 61D16				ILLINOIS FED. AID PROJECT



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NOTE BOOK	
AREAS CHECKED	
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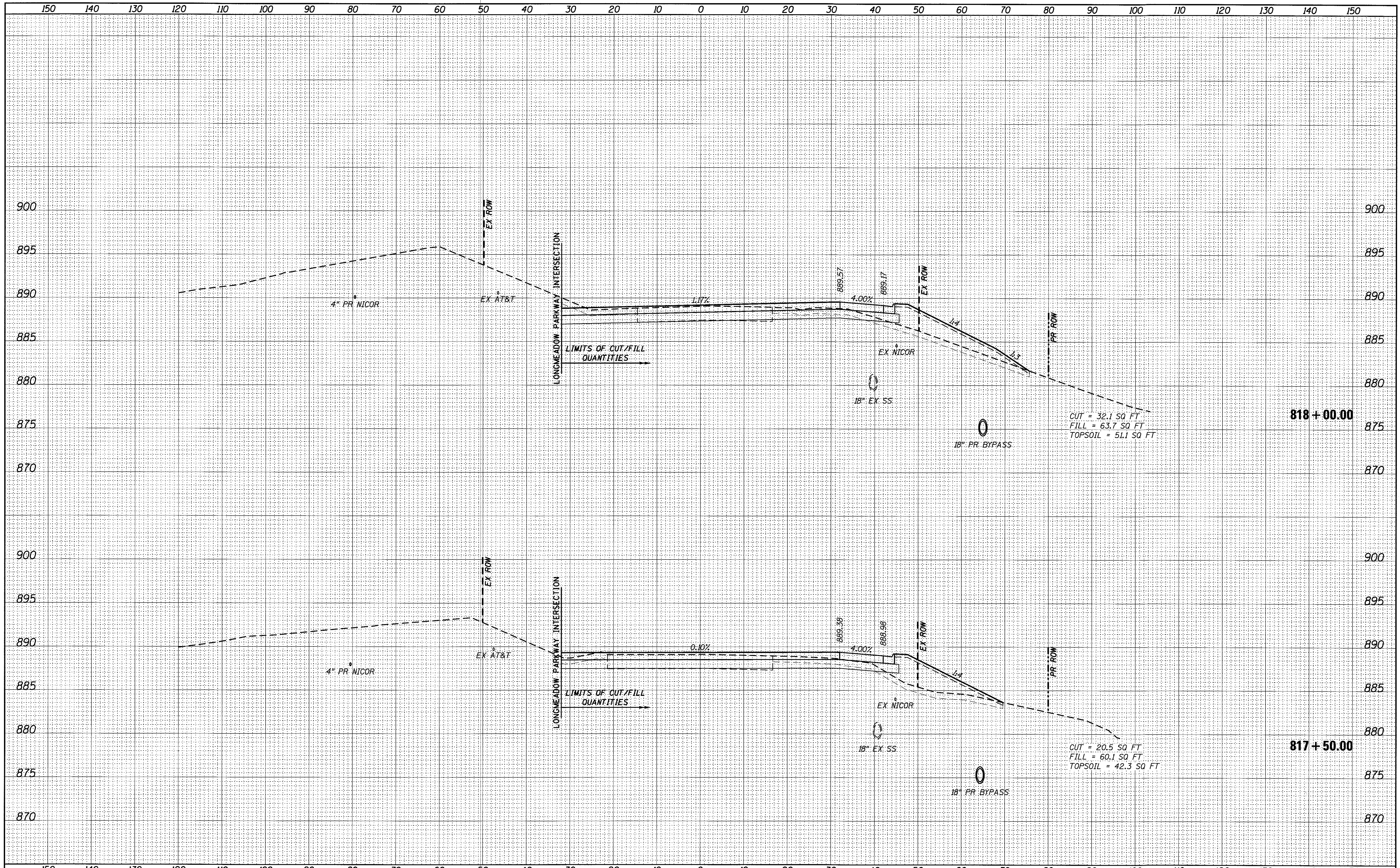


FILE NAME = 74754-shr-xssht.62.dgn	USER NAME = r.j.hong	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	ILLINOIS ROUTE 62 CROSS SECTIONS			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 162
Default	PLOT SCALE = 1/8" = 10'-0"	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	CONTRACT NO. 61D16	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		STA. 816+00.00	TO STA. 817+00.00						
		DATE -	REVISED -									



FINAL	SURVEYED	DATE
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SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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FILE NAME = 74754-sht-xssht\_62.dgn  
 USER NAME = r.jiang  
 PLOT SCALE = 10,0000' / in.  
 PLOT DATE = 9/1/2017

DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 62 CROSS SECTIONS**

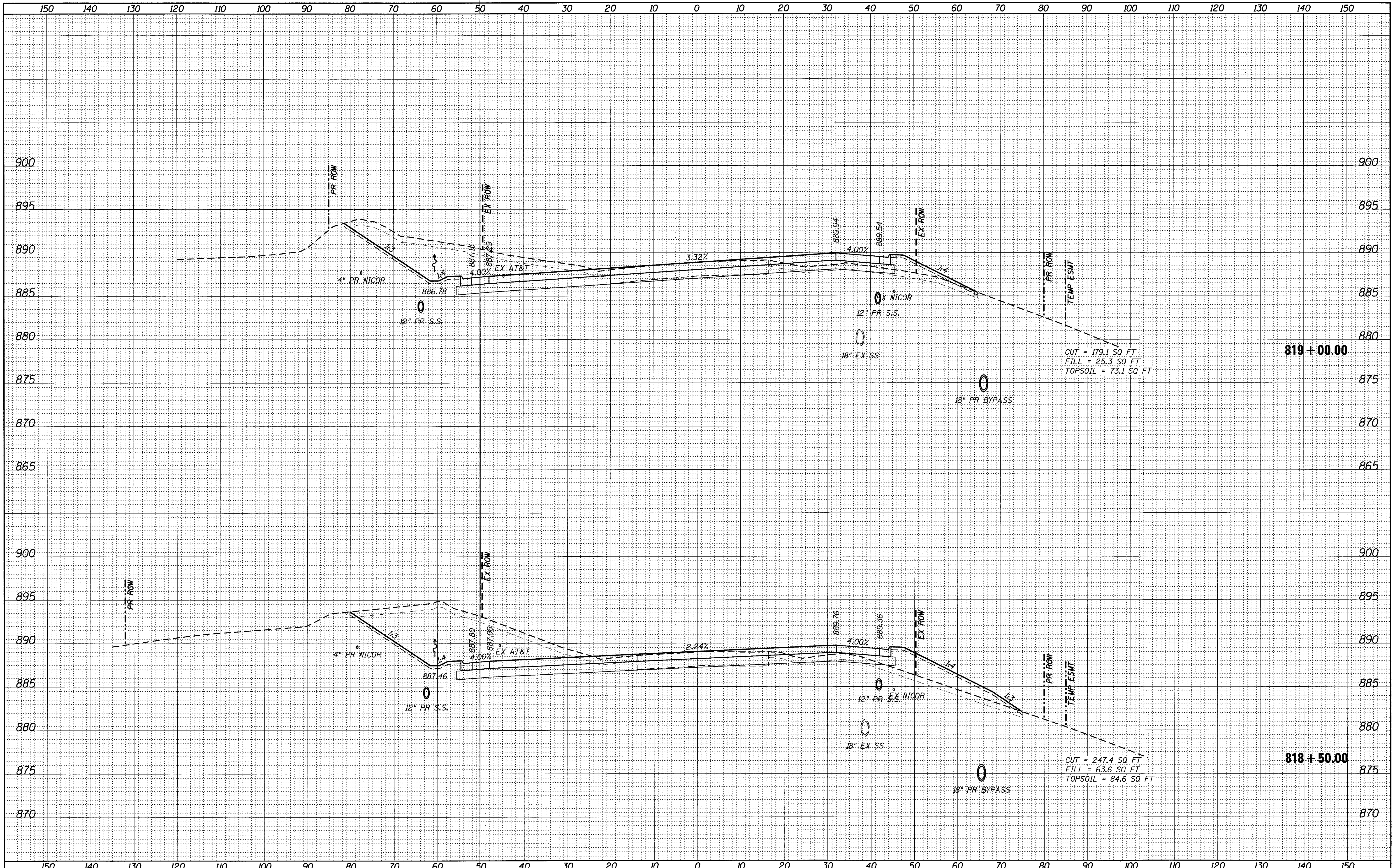
SCALE: SHEET OF SHEETS STA. 817+50.00 TO STA. 818+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	163
CONTRACT NO. 61D16				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	DATE
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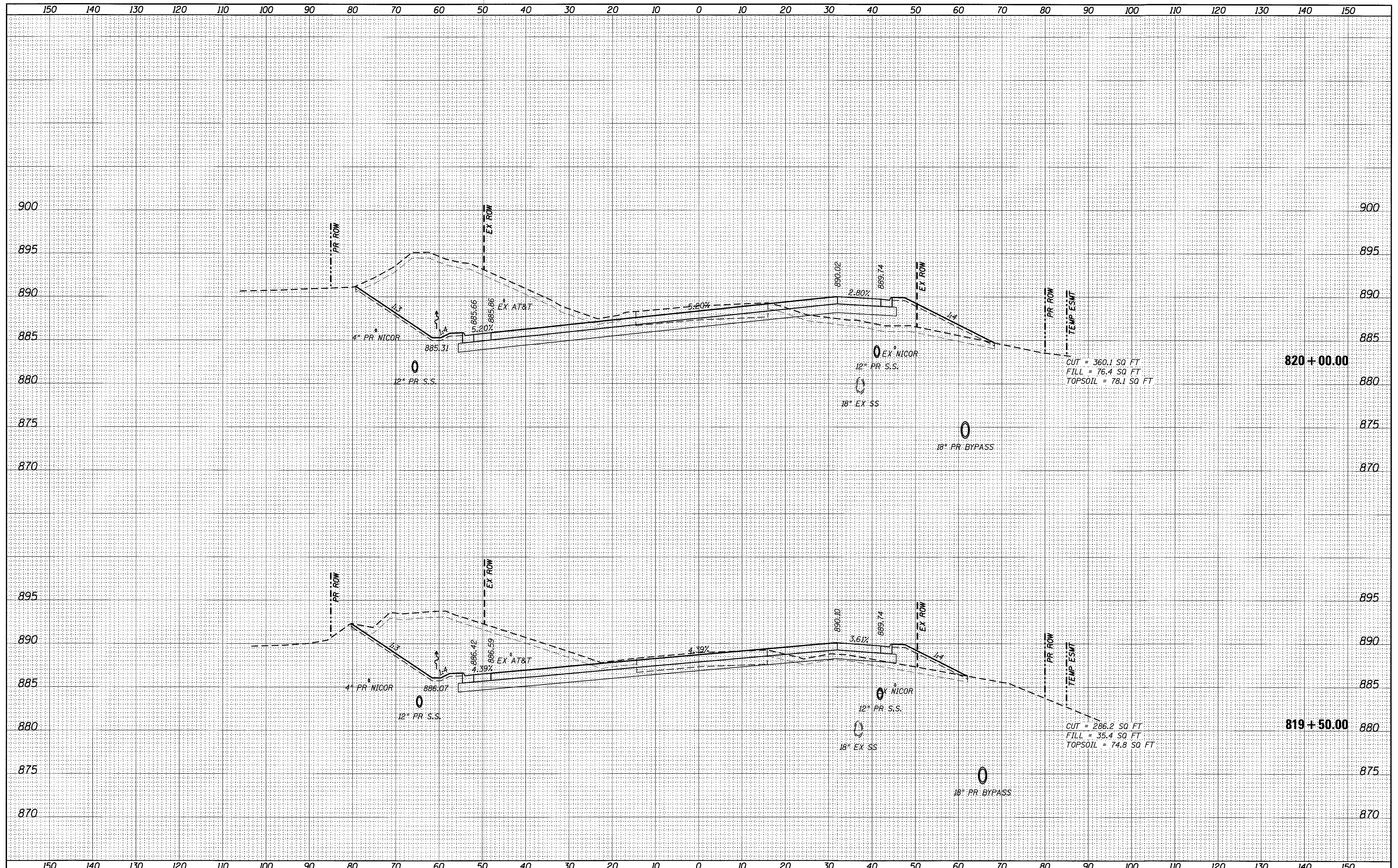


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PLOT SCALE = 18.00000' / in.	CHECKED -	REVISED -	SCALE:			SHEET OF SHEETS	STA. 818+50.00 TO STA. 819+00.00	ILLINOIS FED. AID PROJECT				
PLOT DATE = 9/1/2017	DATE -	REVISED -										
Default								CONTRACT NO. 61D16				



FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
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FILE NAME = 74754-sht-xssh-t.62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>				F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 165
Default	PLOT SCALE = 10,0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 819+50.00	TO STA. 820+00.00	CONTRACT NO. 61D16		
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -										

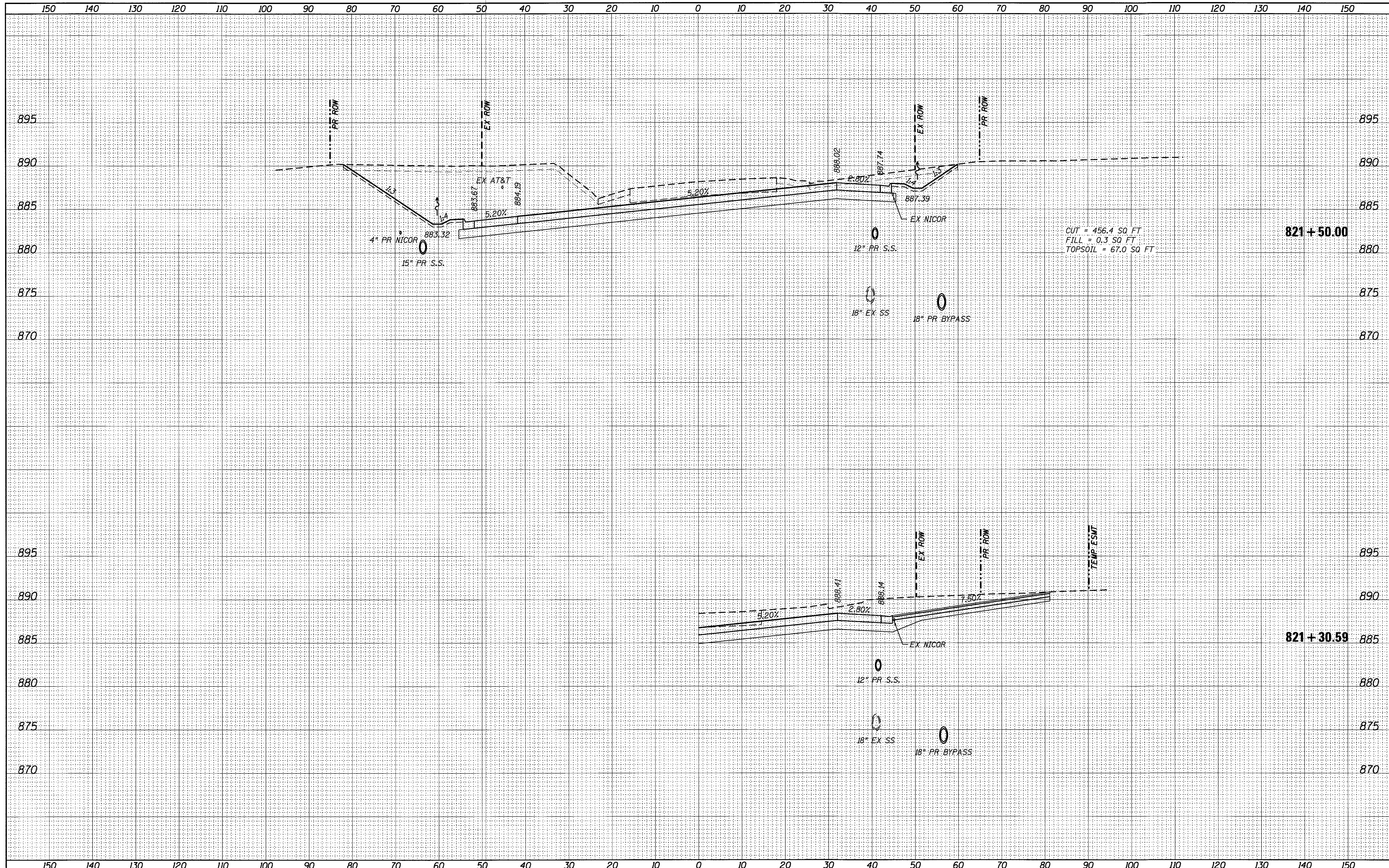






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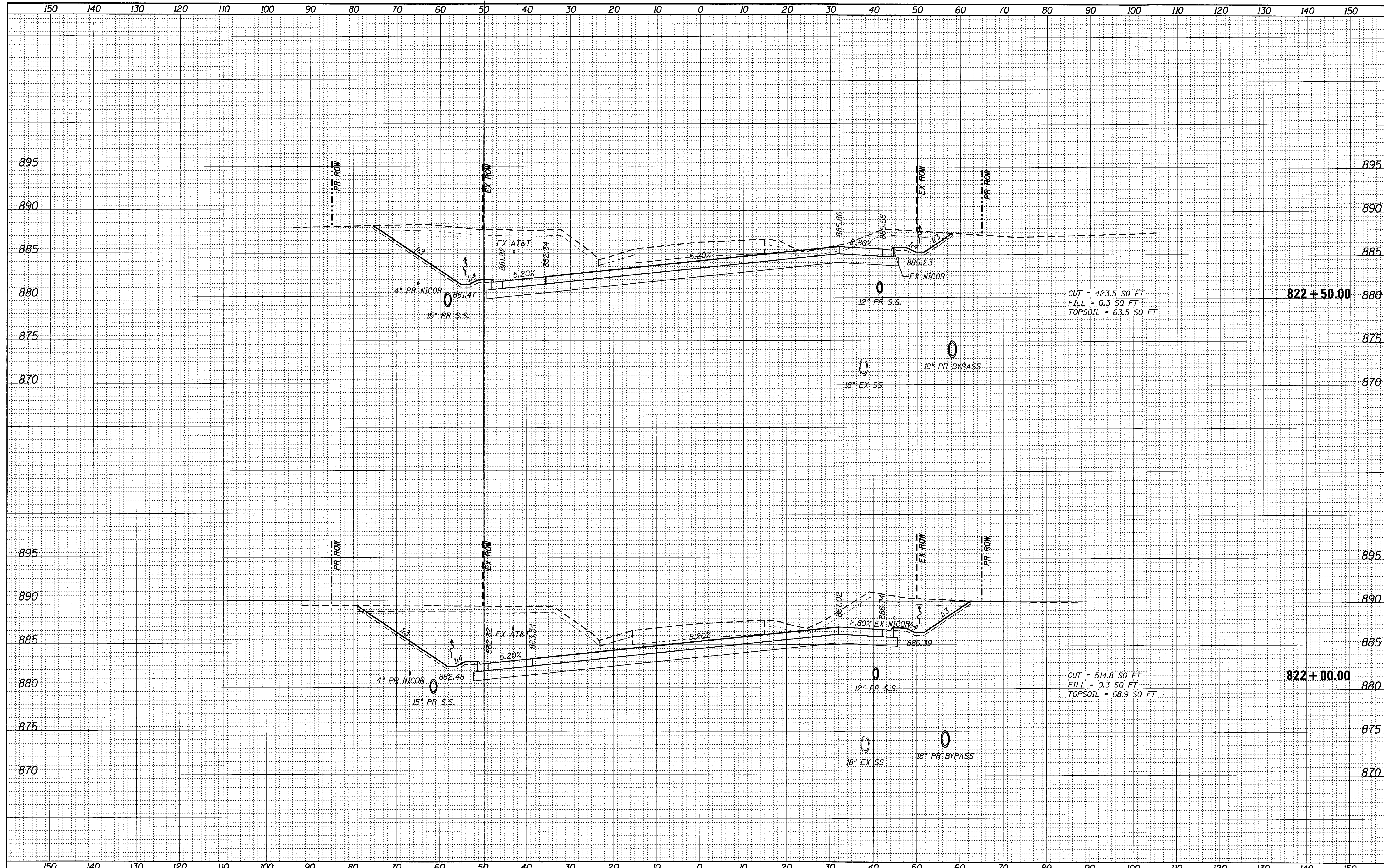


FILE NAME = 74754-sh1t-xssht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b> SCALE: SHEET OF SHEETS STA. 821+30.59 TO STA. 821+50.00	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 167		
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 61D16		ILLINOIS FED. AID PROJECT				
	PLOT DATE = 9/1/2017	DATE -	REVISED -									



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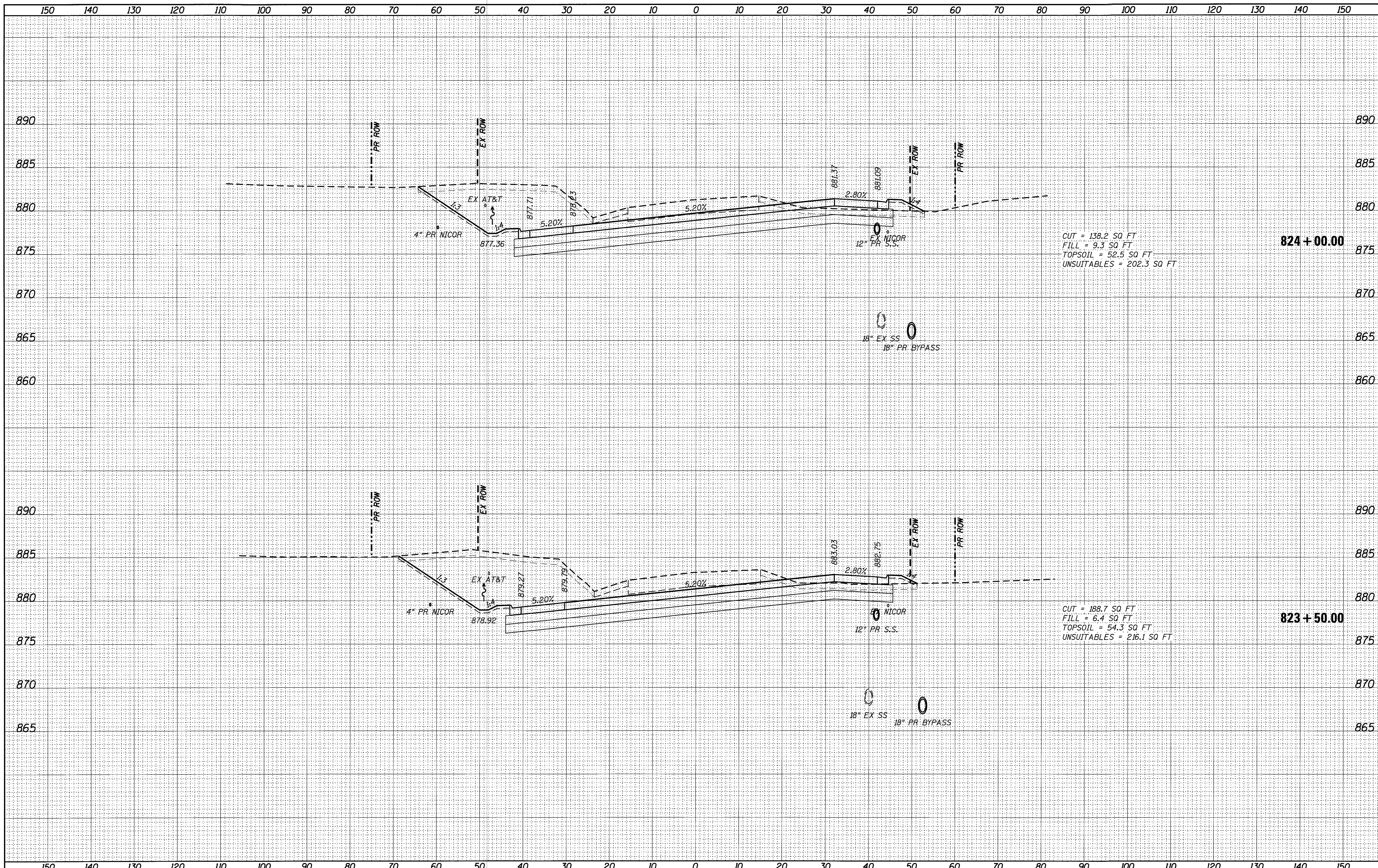


FILE NAME = 74754-shr-xasht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>	F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 168		
Default	PLOT SCALE = 1/8" = 1' / in.	DRAWN -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 822+00.00	TO STA. 822+50.00	CONTRACT NO. 61D16
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -									ILLINOIS FED. AID PROJECT
		DATE -	REVISED -									







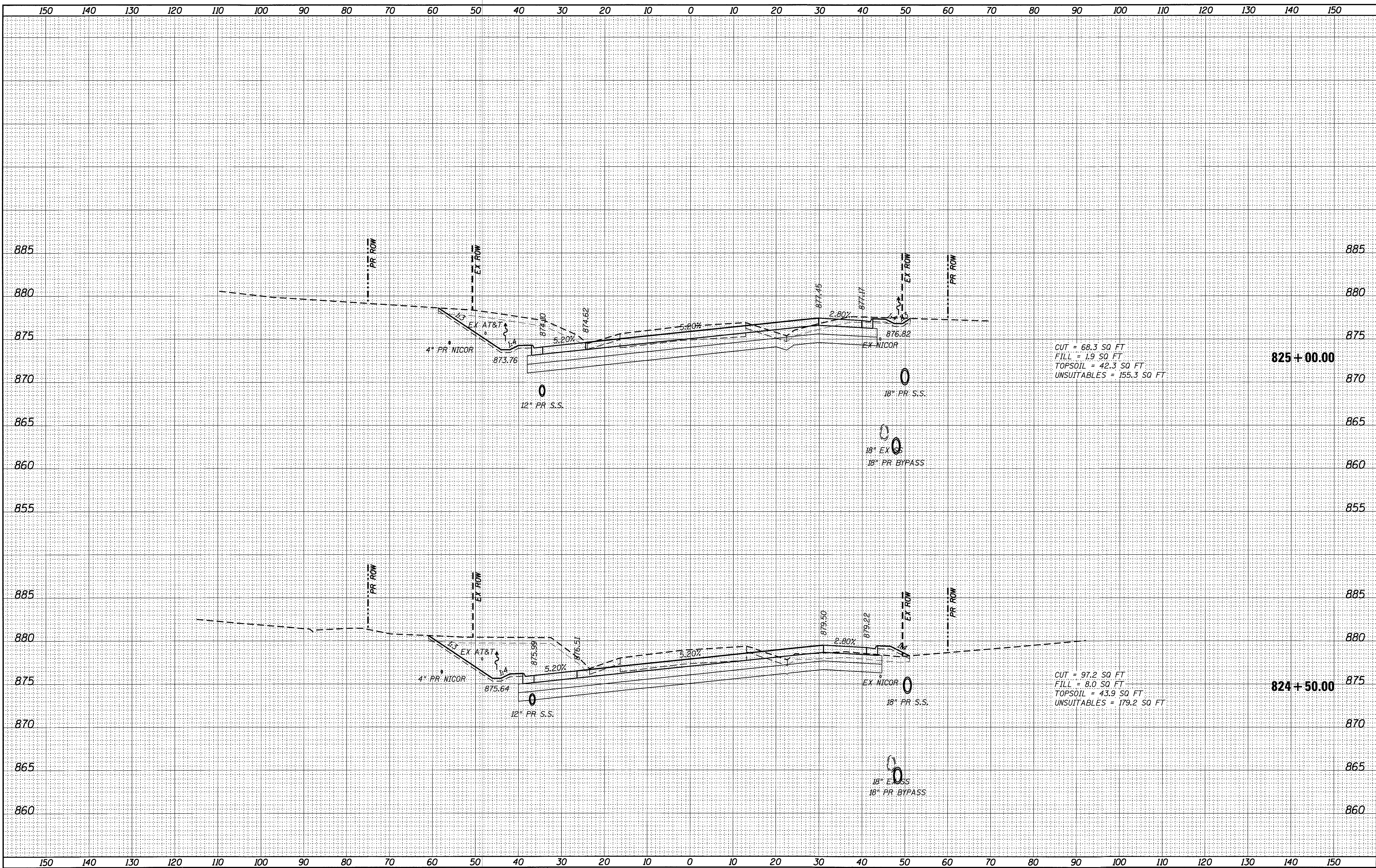


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FILE NAME = 74754-sht-ssht_62.dgn	USER NAME = rjtang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>				F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 170
	PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 823+50.00	TO STA. 824+00.00	CONTRACT NO. 61D16 ILLINOIS FED. AID PROJECT		
	PLOT DATE = 9/26/2017	CHECKED -	REVISED -										
Default		DATE -	REVISED -										





CUT = 68.3 SQ FT  
 FILL = 1.9 SQ FT  
 TOPSOIL = 42.3 SQ FT  
 UNSUITABLES = 155.3 SQ FT

825+00.00

CUT = 97.2 SQ FT  
 FILL = 8.0 SQ FT  
 TOPSOIL = 43.9 SQ FT  
 UNSUITABLES = 179.2 SQ FT

824+50.00

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FILE NAME = 74754-sht-xasht\_62.dgn  
 USER NAME = r.jiang  
 PLOT SCALE = 10.0000' / 1"

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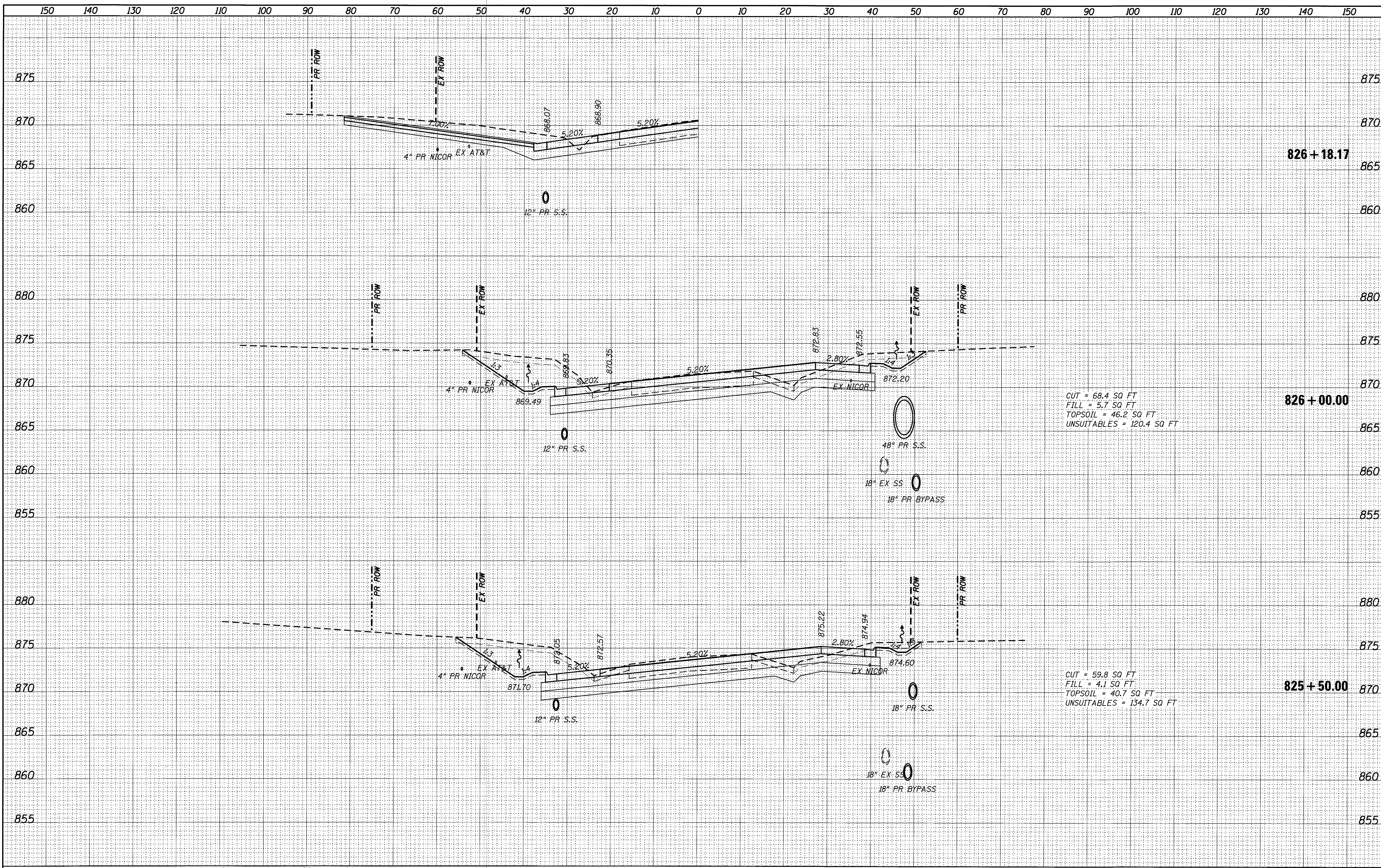
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 62 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 824+50.00 TO STA. 825+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2298	13-00215-30-PV	KANE	177	171
CONTRACT NO. 61D16			ILLINOIS FED. AID PROJECT	





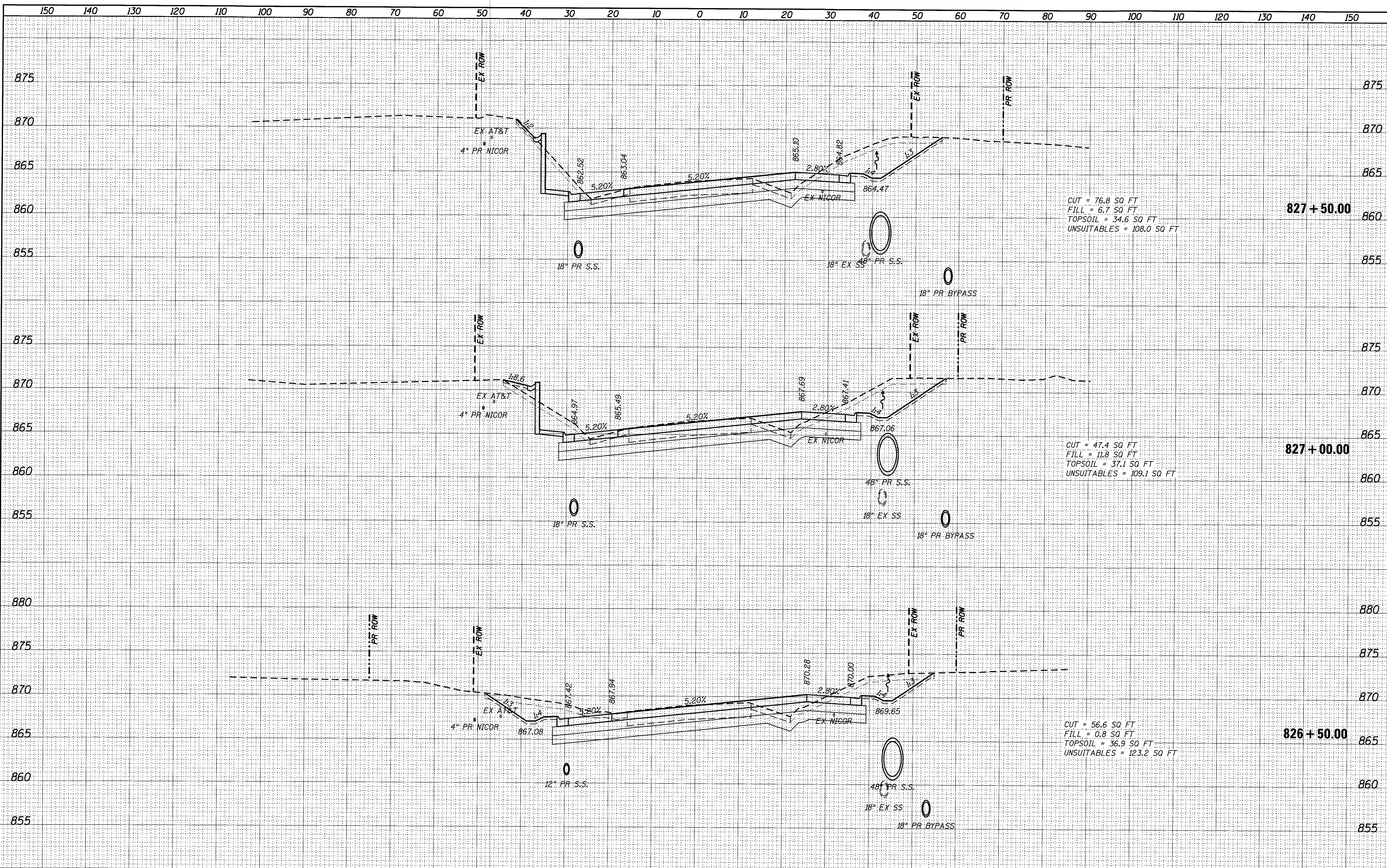
CUT = 68.4 SQ FT  
 FILL = 5.7 SQ FT  
 TOPSOIL = 46.2 SQ FT  
 UNSUITABLES = 120.4 SQ FT

CUT = 59.8 SQ FT  
 FILL = 4.1 SQ FT  
 TOPSOIL = 40.7 SQ FT  
 UNSUITABLES = 134.7 SQ FT

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CUT = 76.8 SQ FT  
 FILL = 6.7 SQ FT  
 TOPSOIL = 34.6 SQ FT  
 UNSUITABLES = 108.0 SQ FT

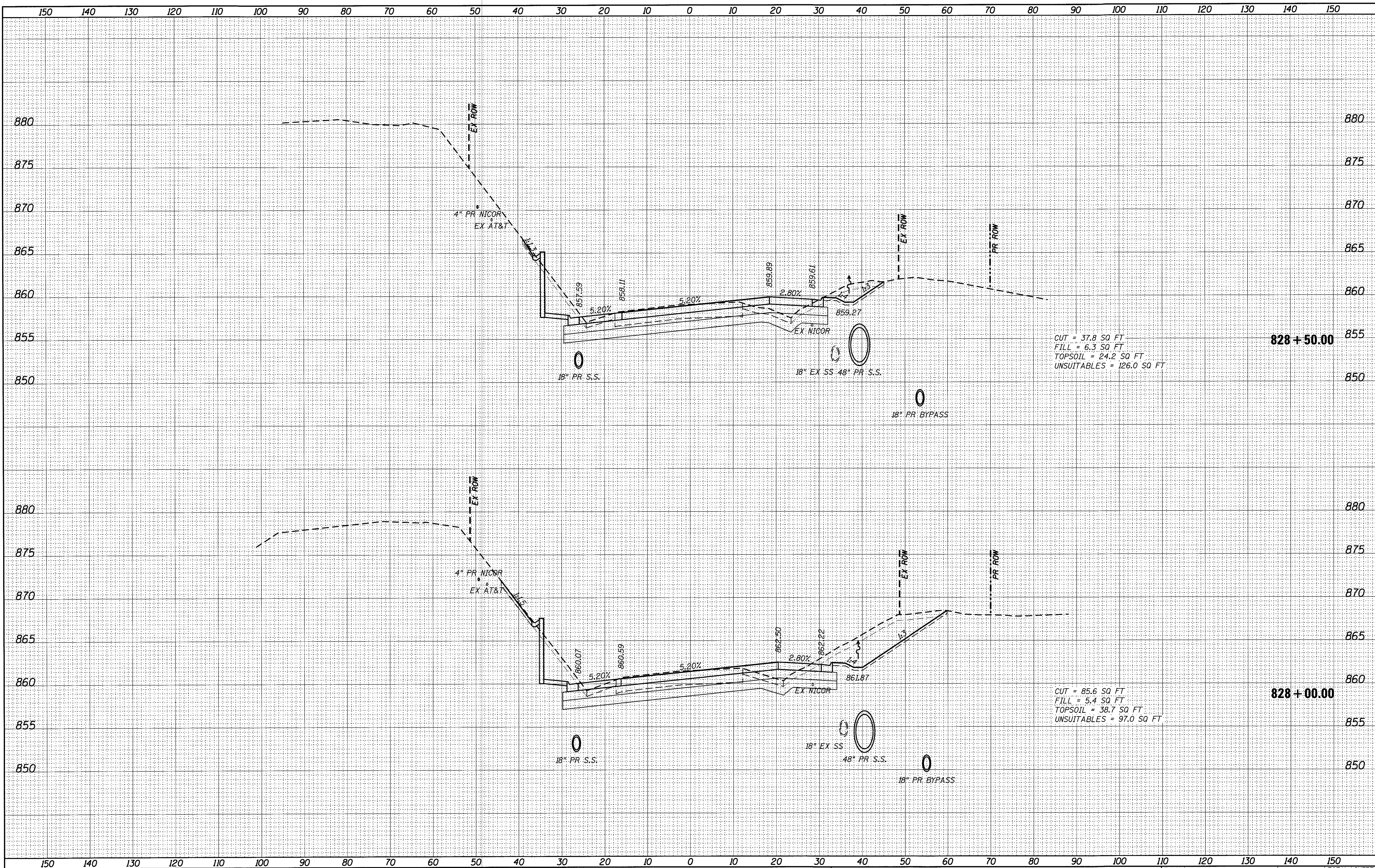
CUT = 47.4 SQ FT  
 FILL = 11.8 SQ FT  
 TOPSOIL = 37.1 SQ FT  
 UNSUITABLES = 109.1 SQ FT

CUT = 56.6 SQ FT  
 FILL = 0.8 SQ FT  
 TOPSOIL = 36.9 SQ FT  
 UNSUITABLES = 123.2 SQ FT

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CUT = 37.8 SQ FT  
 FILL = 6.3 SQ FT  
 TOPSOIL = 24.2 SQ FT  
 UNSUITABLES = 126.0 SQ FT

828 + 50.00

CUT = 85.6 SQ FT  
 FILL = 5.4 SQ FT  
 TOPSOIL = 38.7 SQ FT  
 UNSUITABLES = 97.0 SQ FT

828 + 00.00

FILE NAME = 74754-sht-xssht_62.dgn	USER NAME = rjlsang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 62 CROSS SECTIONS</b>			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 174
	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 828+00.00	TO STA. 828+50.00	CONTRACT NO. 61D16	
	PLOT DATE = 9/26/2017	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
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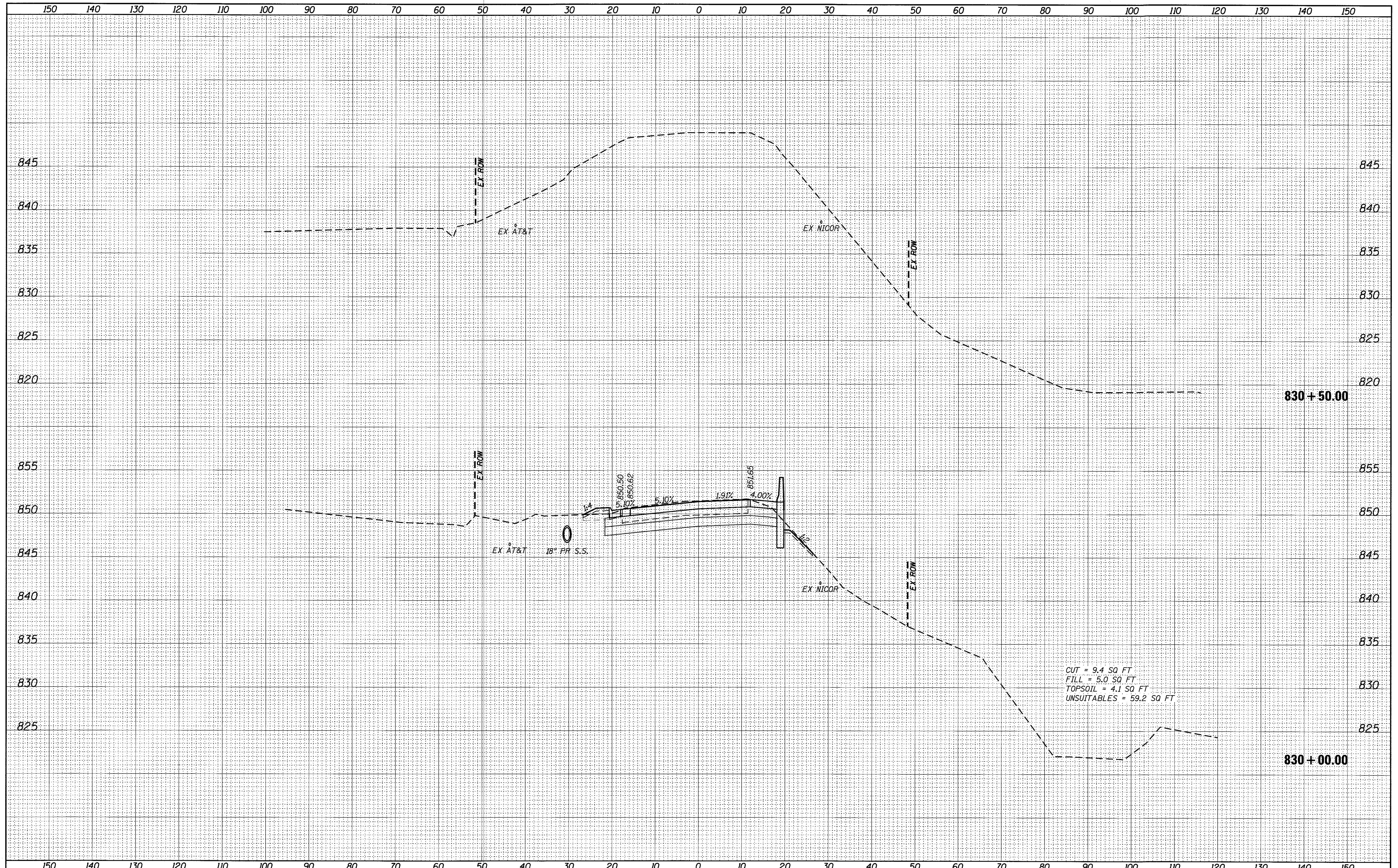






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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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

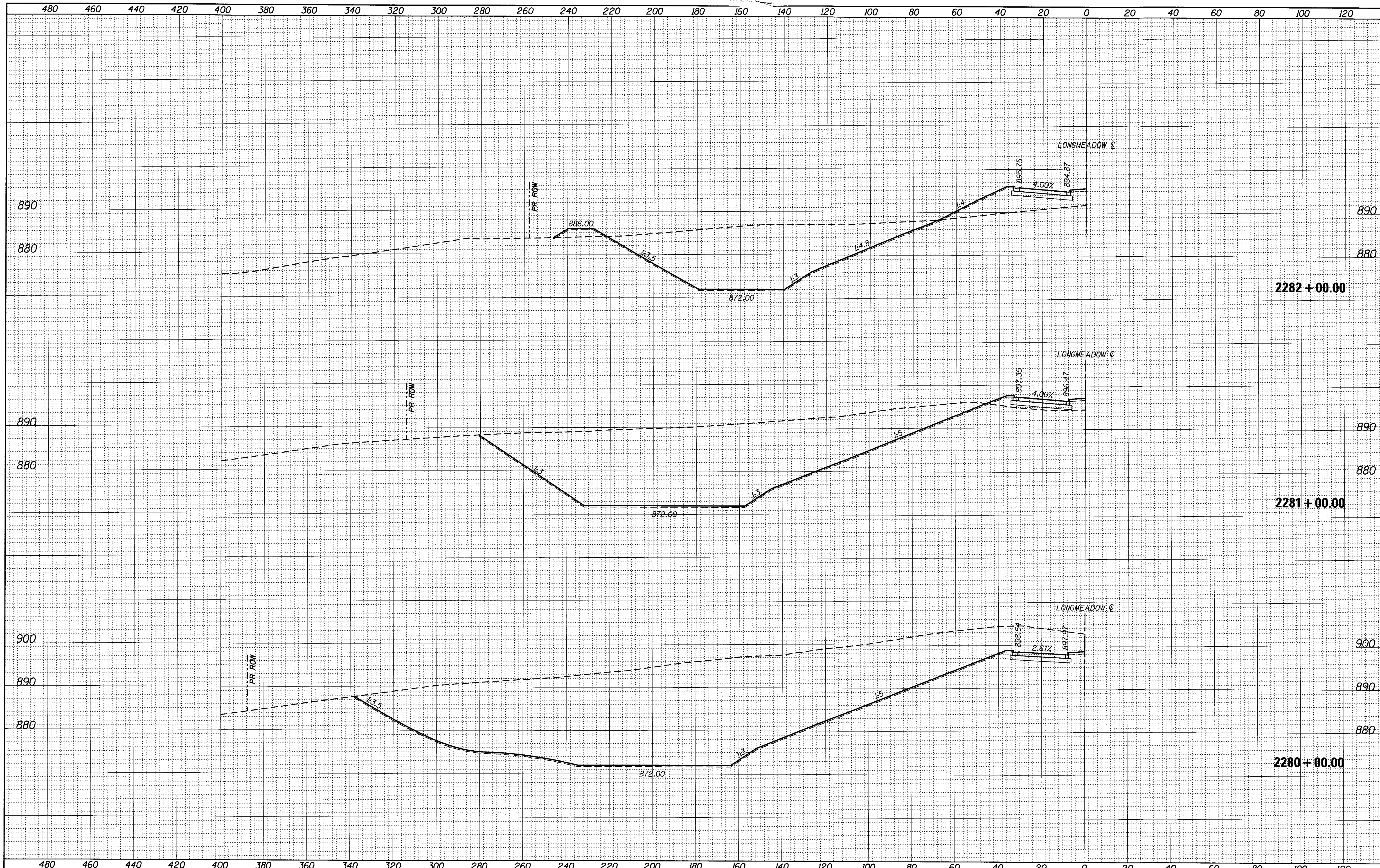


FILE NAME = 74754-sht-xshht_62.dgn	USER NAME = r.jiang	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	ILLINOIS ROUTE 62 CROSS SECTIONS			F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 176
Default	PLOT SCALE = 10,0000 ' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 830+00.00	TO STA. 830+50.00	CONTRACT NO. 61D16	
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



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FINAL SURVEY	
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ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 74754-sht-xssht.basin.dgn	USER NAME = r.jiang	DESIGNED - CFZ	REVISOR -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DETENTION BASIN CROSS SECTIONS</b>				F.A.U. RTE. 2298	SECTION 13-00215-30-PV	COUNTY KANE	TOTAL SHEETS 177	SHEET NO. 177
Default	PLOT SCALE = 20.0000' / in.	CHECKED - RMG	REVISOR -						SCALE:	SHEET	OF	SHEETS	STA. 2280+00.00
	PLOT DATE = 9/1/2017	DATE -	REVISOR -		ILLINOIS FED. AID PROJECT								