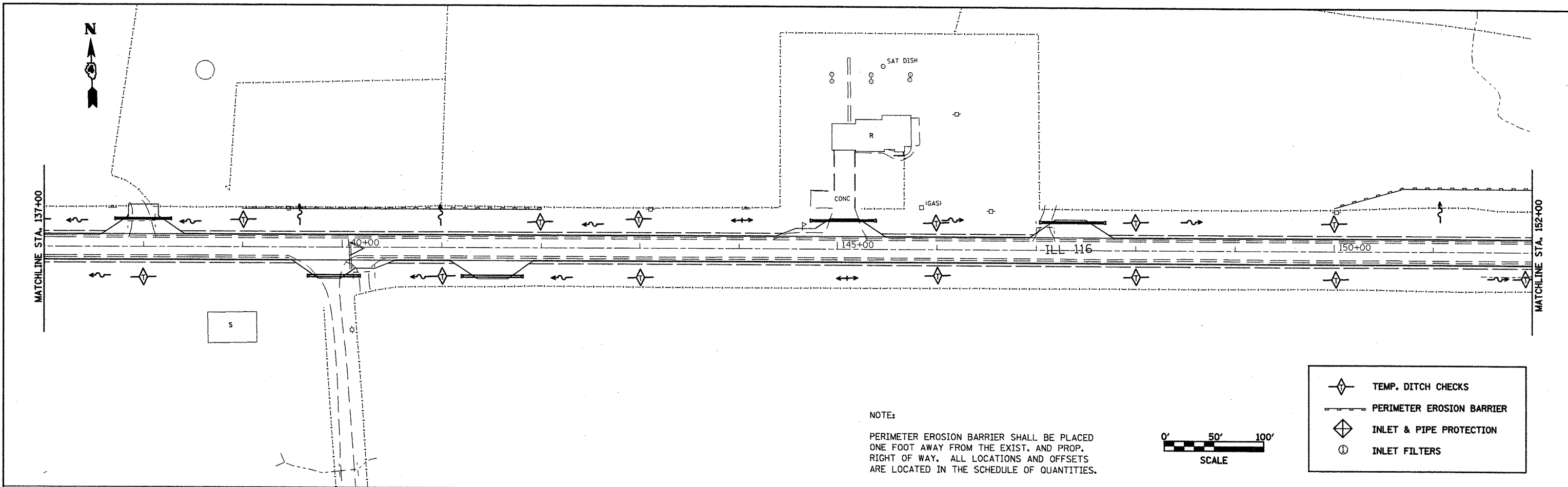
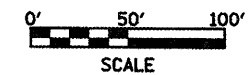


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		

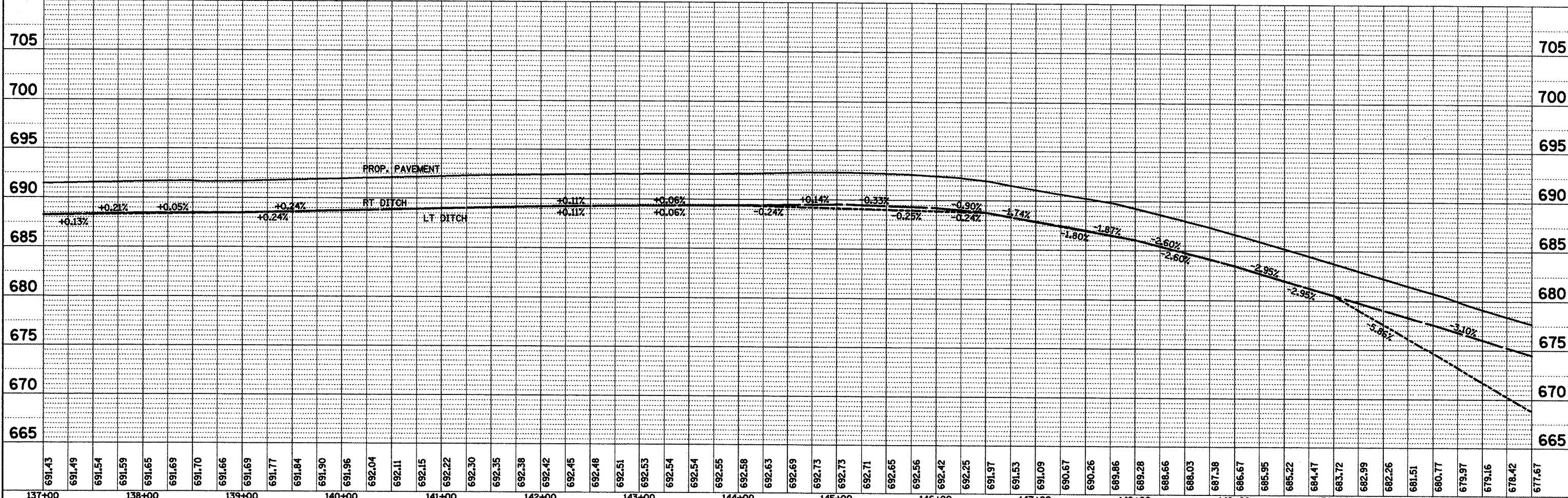
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS CRKO		



NOTE:  
 PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



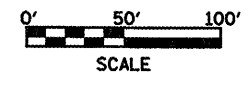
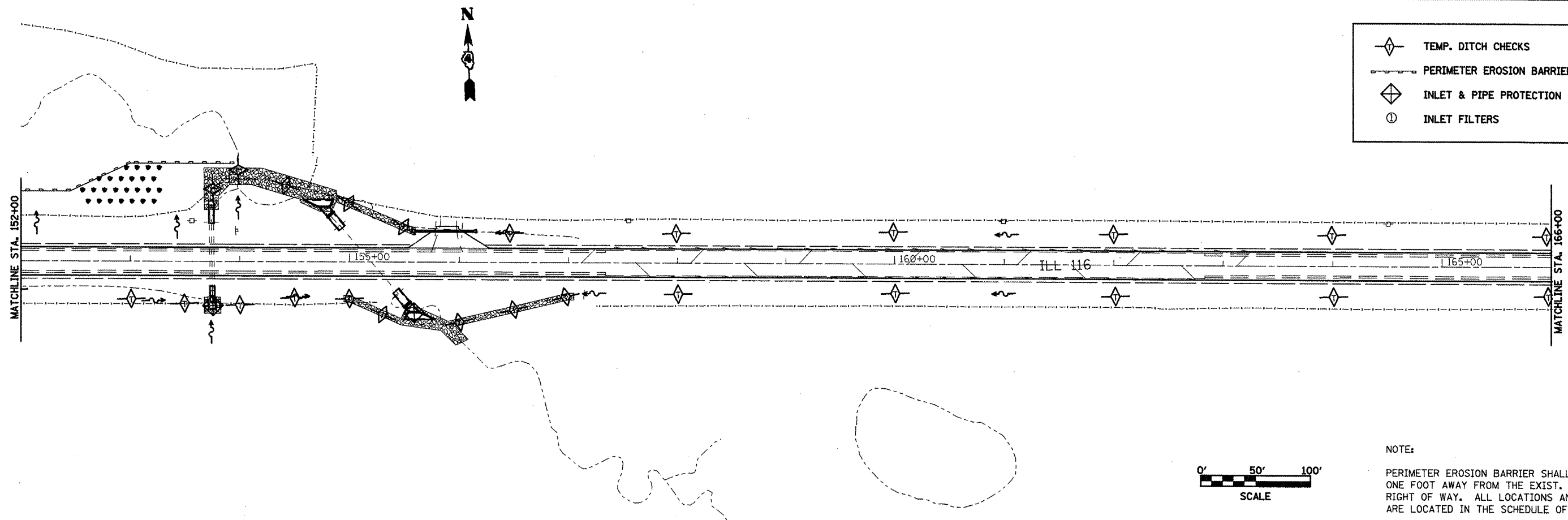
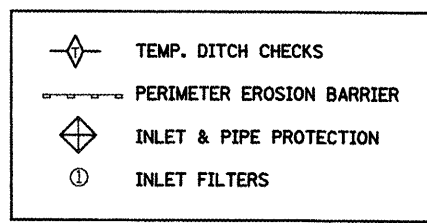
	TEMP. DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET & PIPE PROTECTION
	INLET FILTERS



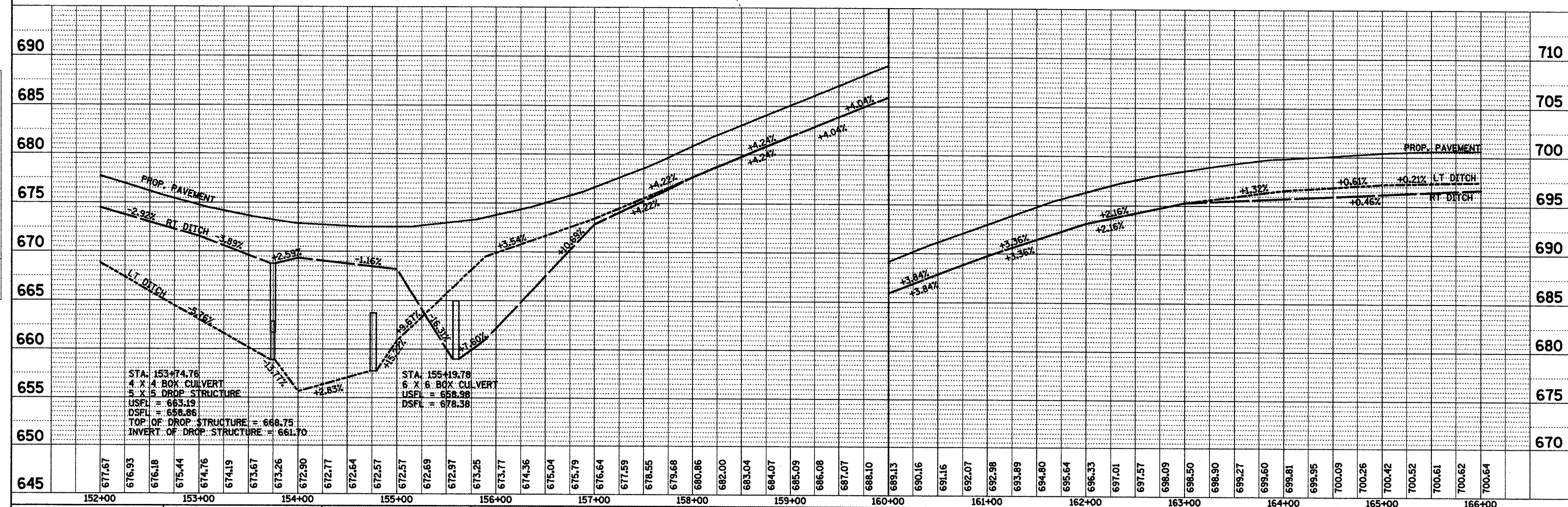
FILE NAME = d:\raindetat1.dgn	USER NAME = ghadrnam	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY EROSION CONTROL</b> <b>IL 116 STA. 137+00 TO STA. 152+00</b>	F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS	SHEET NO. 201		
	PLLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 88773			
	PLLOT DATE = 1/20/2009	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

PLAN SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 REVISIONS  
 NO. OF WAY CHECKED  
 CADD FILE NAME

PROFILE SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 REVISIONS  
 NO. OF WAY CHECKED  
 STRUCTURE NOTATIONS CHECKED



NOTE:  
 PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



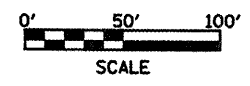
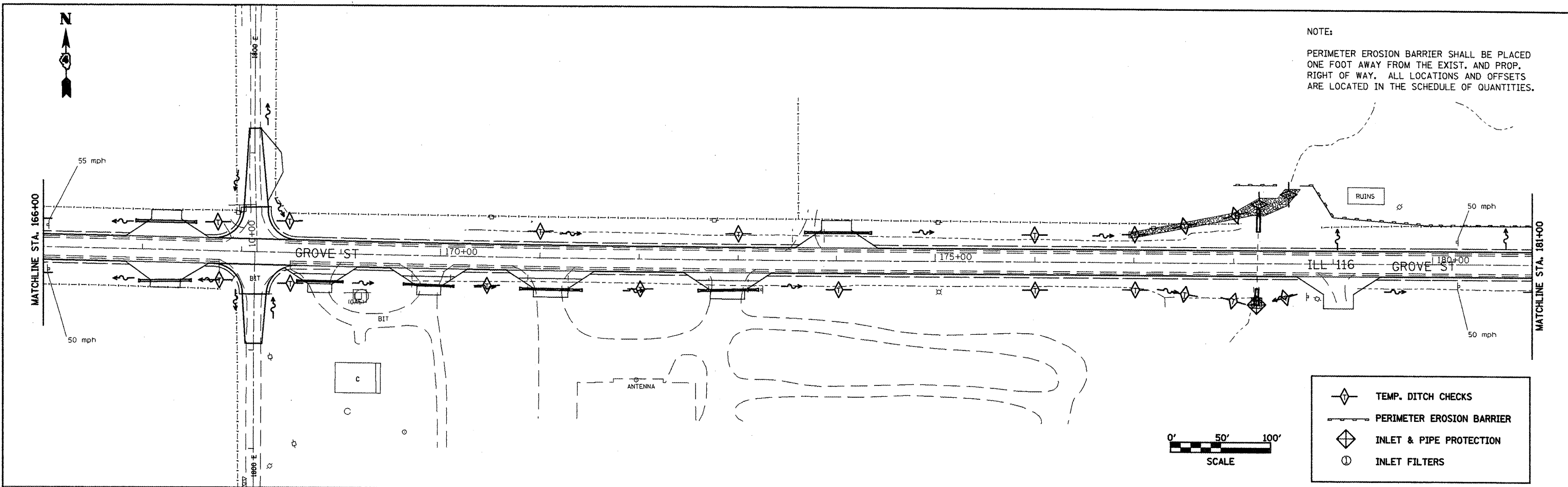
STA: 153+74.76  
 4 X 4 BOX CULVERT  
 5 X 5 DROP STRUCTURE  
 USFL = 663.19  
 DSFL = 658.86  
 TOP OF DROP STRUCTURE = 668.75  
 INVERT OF DROP STRUCTURE = 661.70

STA: 155+19.78  
 6 X 6 BOX CULVERT  
 USFL = 658.98  
 DSFL = 678.38

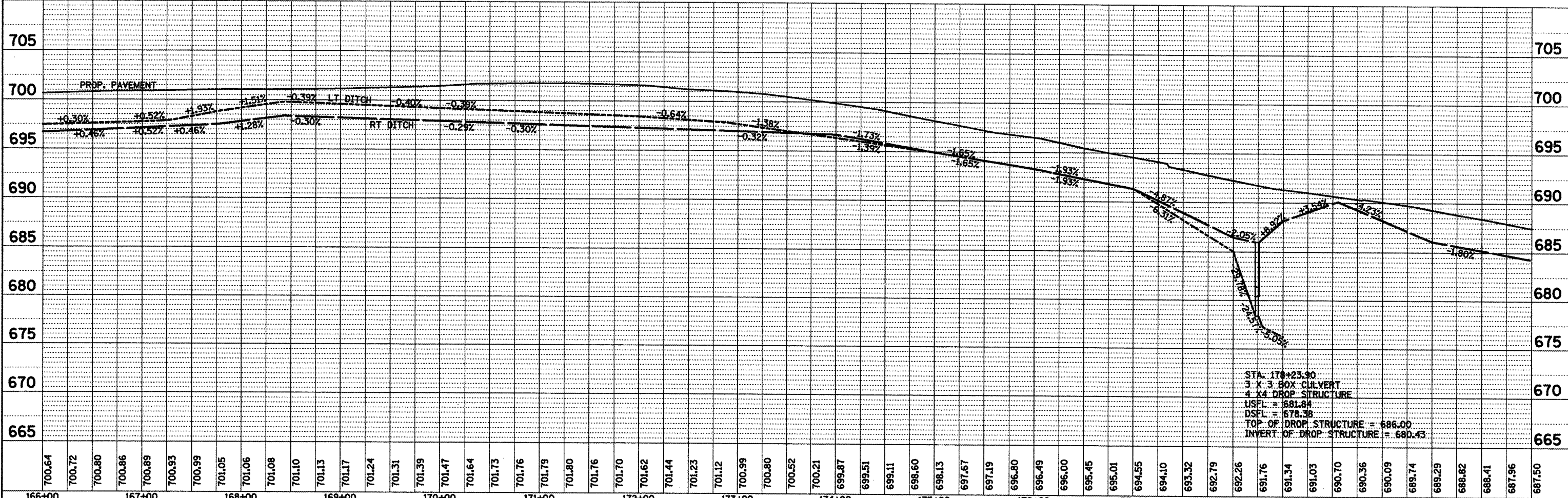


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	ADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	STRUCTURE NOTATIONS OK'D		



- TEMP. DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION
- INLET FILTERS



STA. 178+23.90  
3' X 3' BOX CULVERT  
4' X 4' DROP STRUCTURE  
USFL = 681.84  
DSFL = 678.38  
TOP OF DROP STRUCTURE = 686.00  
INVERT OF DROP STRUCTURE = 680.43

FILE NAME = draindetail.dgn	USER NAME = ghidrean	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY EROSION CONTROL IL 116 STA. 166+00 TO STA. 181+00</b>			F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 203	SHEET NO. 203
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 88773				
	PLOT DATE = 1/28/2009	CHECKED -	REVISED -									
		DATE -	REVISED -									

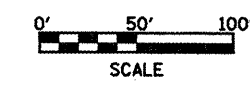
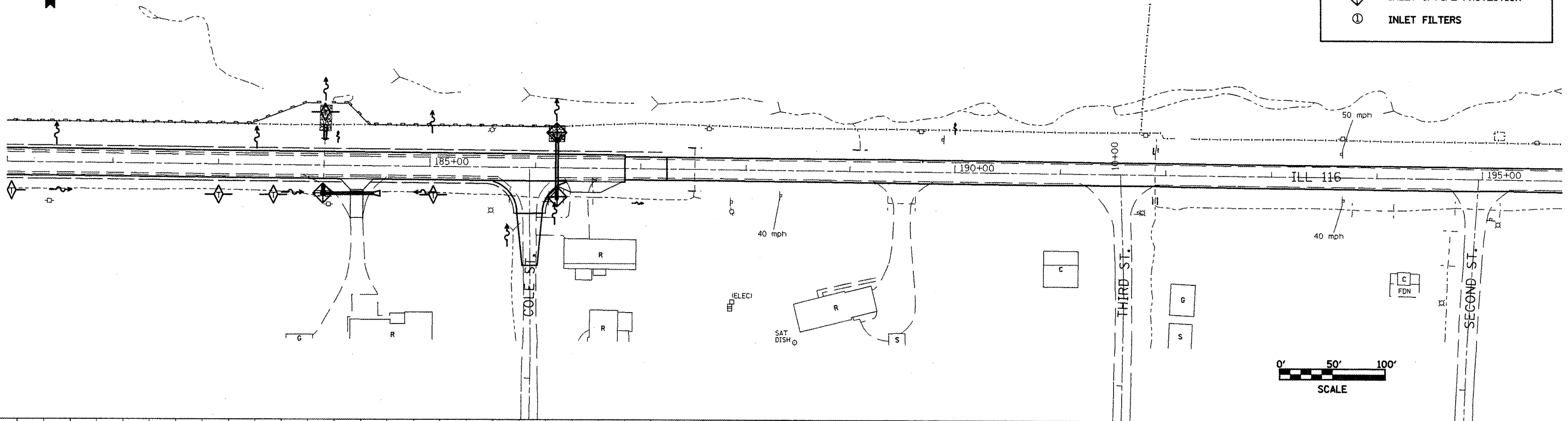


NOTE:

PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

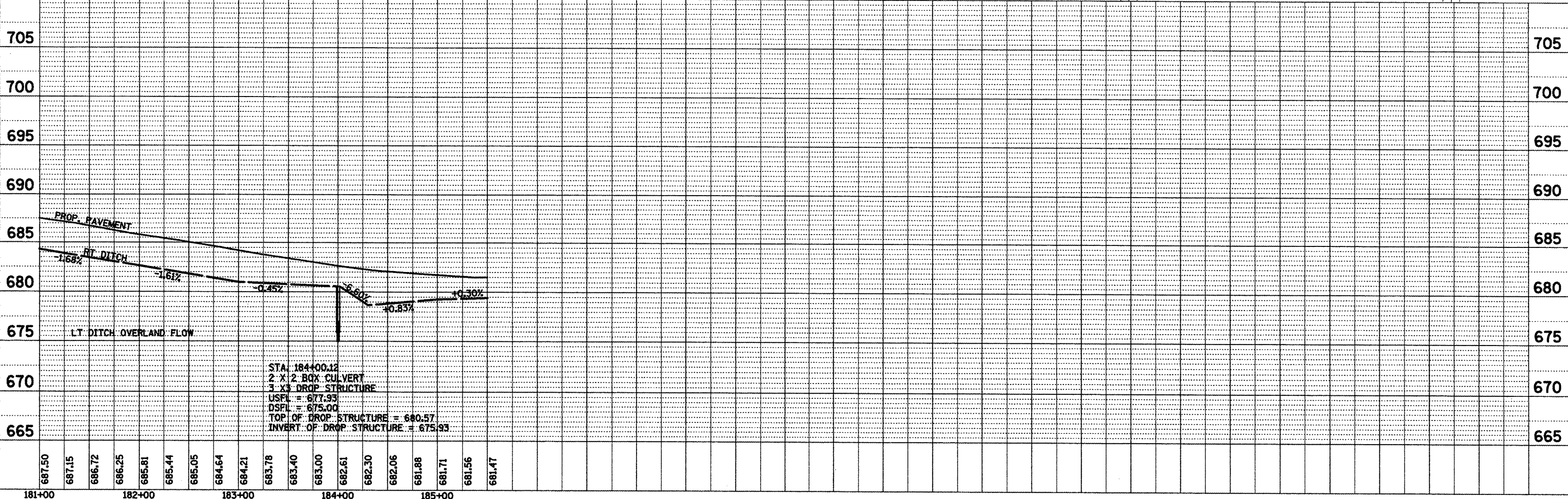
- TEMP. DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION
- INLET FILTERS

MATCHLINE STA. 181+00



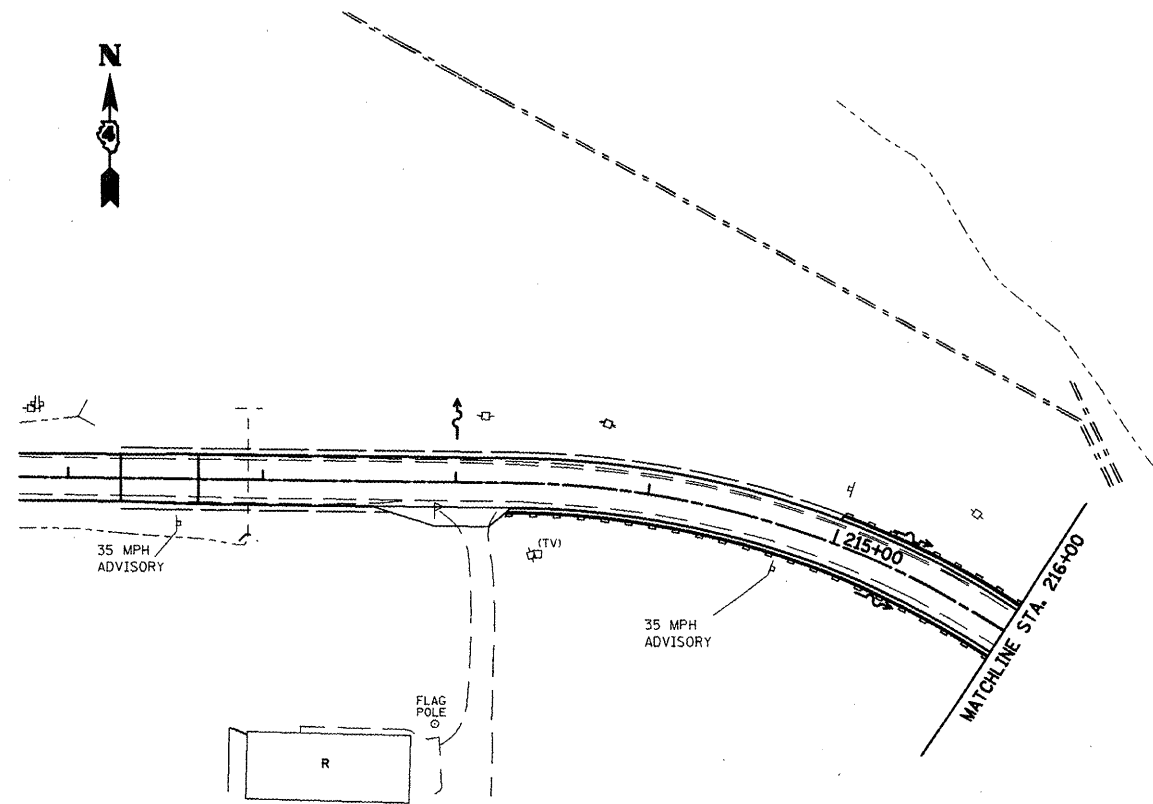
DATE	
BY	
REVIEWED	
APPROVED	
ALIGNED	
CHECKED	
PT. OF WAY CHECKED	
NO. FILE NAME	

DATE	
BY	
REVIEWED	
APPROVED	
GRADES CHECKED	
NO. NOTED	
STRUCTURE NOTATION CHRD	



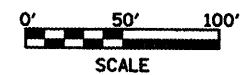
STA. 184+00.12  
 2 X 2 BOX CULVERT  
 3 X 3 DROP STRUCTURE  
 USFL = 677.93  
 DSFL = 675.00  
 TOP OF DROP STRUCTURE = 680.57  
 INVERT OF DROP STRUCTURE = 675.93

FILE NAME = d:\sundetail.dgn	USER NAME = ghudnasm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>TEMPORARY EROSION CONTROL</b> <b>IL 116 STA. 181+00 TO STA. 185+00</b>	F.A.P. RTE. = 665	SECTION	COUNTY = HENDERSON	TOTAL SHEETS = 209	SHEET NO. = 209
PLOT SCALE = 1/80.0000" / IN.	CHECKED -	REVISED -	CONTRACT NO. 88773						
PLOT DATE = 1/20/2009	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.							



NOTE:

PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



	TEMP. DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET & PIPE PROTECTION
	INLET FILTERS

FILE NAME =  
draindetail.dgn

USER NAME = ghadineam  
PLOT SCALE = 100.0000' / IN.  
PLOT DATE = 1/20/2009

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY EROSION CONTROL  
IL 116 STA. 211+67 TO STA. 216+00**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665		HENDERSON		205
CONTRACT NO. 88773				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



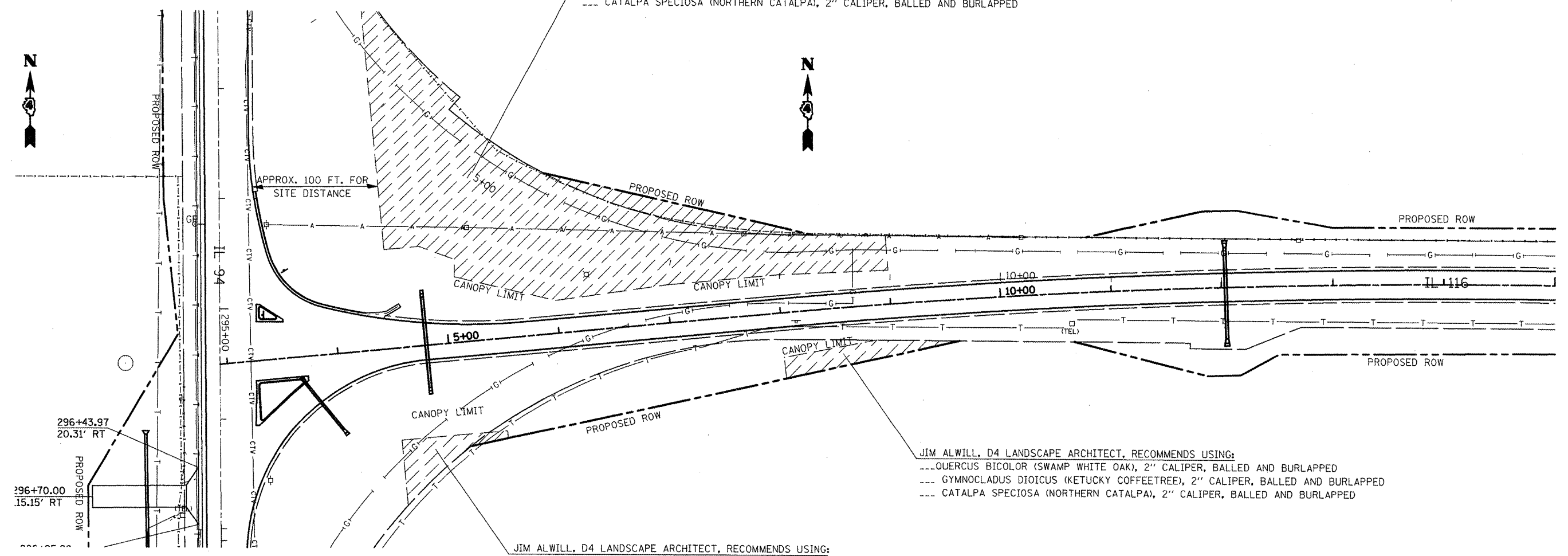


TREE WHIPS MIXTURE= 163 EACH  
 TREE WHIPS ARE PROPOSED AT VARIOUS LOCATIONS THROUGHOUT THE JOB.  
 SEE SCHEDULE OF QUANTITIES FOR SUGGESTED LOCATIONS.  
 IT SHALL BE TO THE DISCRETION OF THE RESIDENT ENGINEER FOR EXACT PLACEMENT.

JIM ALWILL, D4 LANDSCAPE ARCHITECT, RECOMMENDS USING:  
 ---QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED  
 --- GYMNOCLADUS DIOICUS (KETUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED  
 --- CATALPA SPECIOSA (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED

JIM ALWILL, D4 LANDSCAPE ARCHITECT, RECOMMENDS USING:  
 ---QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED  
 --- GYMNOCLADUS DIOICUS (KETUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED  
 --- CATALPA SPECIOSA (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED

JIM ALWILL, D4 LANDSCAPE ARCHITECT, RECOMMENDS USING:  
 ---QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED  
 --- GYMNOCLADUS DIOICUS (KETUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED  
 --- CATALPA SPECIOSA (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED



QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED  
 HEIGHT AT MATURITY 60-80', SPREAD AT MATURITY 50-80'

GYMNOCLADUS DIOICUS (KETUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED  
 HEIGHT AT MATURITY 55-75'. SPREAD AT MATURITY 45-65'

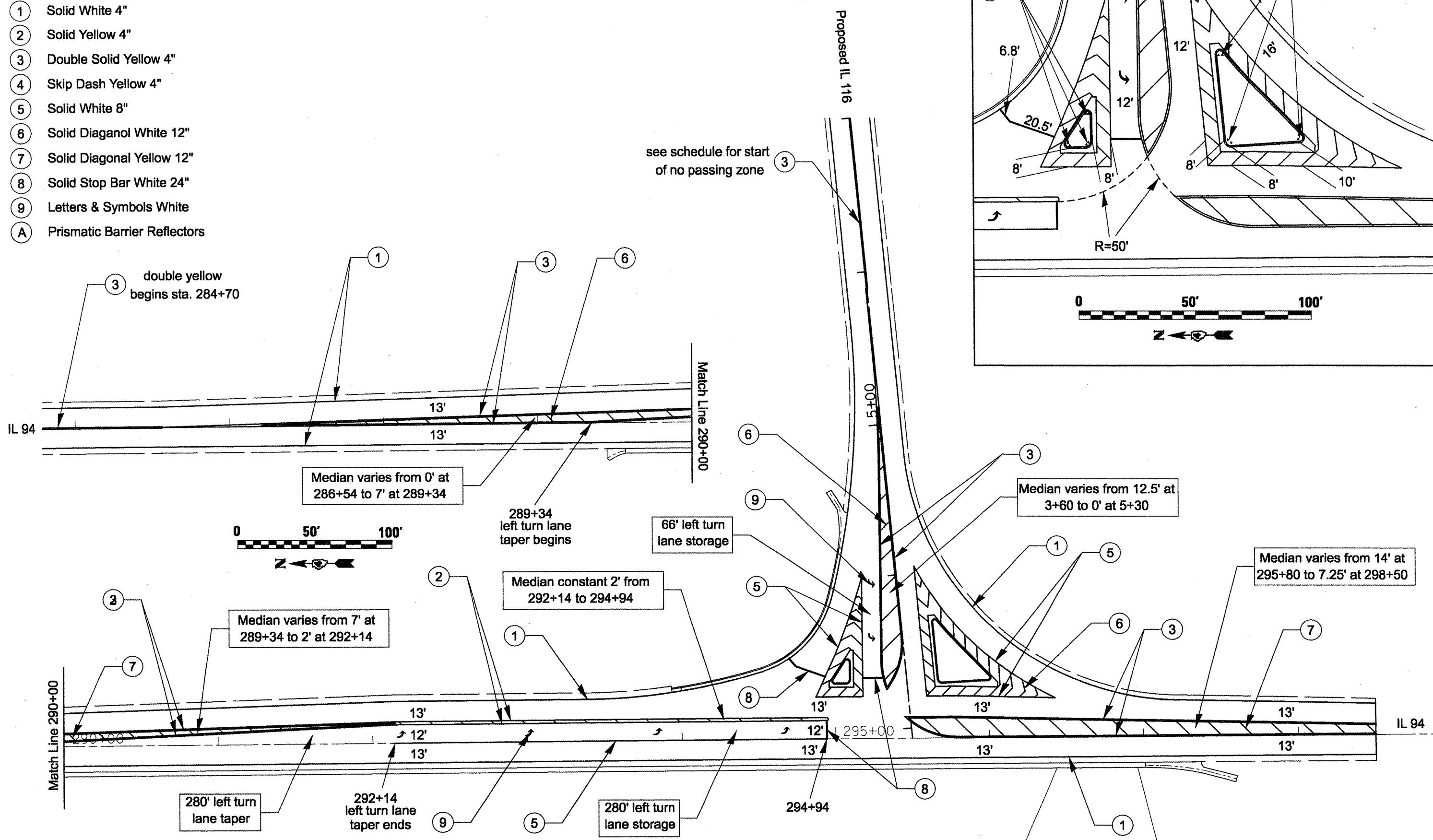
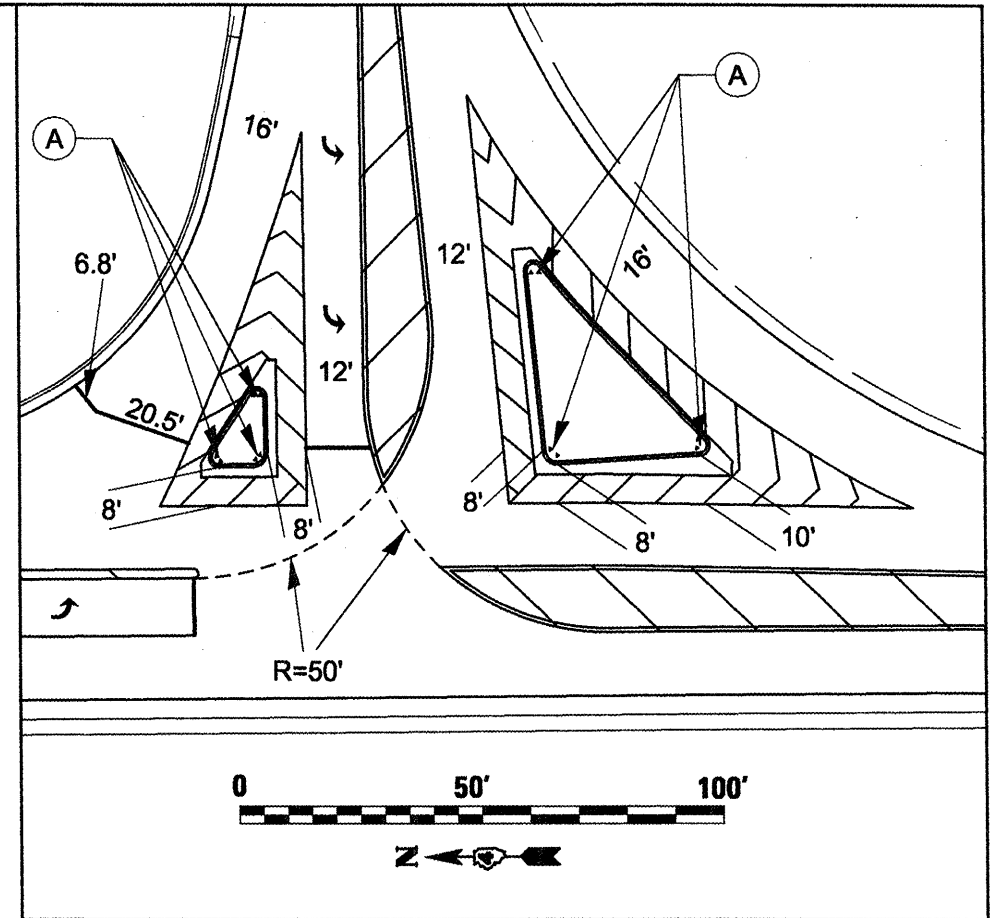
CATALPA SPECIOSA (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED  
 HEIGHT AT MATURITY 50-80'. SPREAD AT MATURITY 20-40'

PROPOSED TREE REPLACEMENT AREAS. IT SHALL BE TO THE DISCRETION OF THE RESIDENT ENGINEER FOR TREE PLACEMENT. CLEAR ZONE OFFSETS AND UTILITIES SHALL BE CONSIDERED. REFER TO SECTION 253.03 OF THE STANDARD SPECIFICATIONS FOR PLANTING REQUIREMENTS. CONTACT JIM ALWILL, D4 LANDSCAPE ARCHITECT, FOR FURTHER QUESTIONS OR CONCERNS.

FILE NAME = shv01.dgn	USER NAME = ghsdneom	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	665	(136,137)W&RS-3;136R;109BR-2	HENDERSON	207
		CHECKED -	REVISED -		<b>CONTRACT NO. 88773</b>								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

# LEGEND

- ① Solid White 4"
- ② Solid Yellow 4"
- ③ Double Solid Yellow 4"
- ④ Skip Dash Yellow 4"
- ⑤ Solid White 8"
- ⑥ Solid Diagonal White 12"
- ⑦ Solid Diagonal Yellow 12"
- ⑧ Solid Stop Bar White 24"
- ⑨ Letters & Symbols White
- A Prismatic Barrier Reflectors



FILE NAME = staging.dgn

USER NAME = hudeisonme  
 PLOT SCALE = 60.2740' / IN.  
 PLOT DATE = 1/28/2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING  
 DETAIL IL 94 / IL 116 TEE**

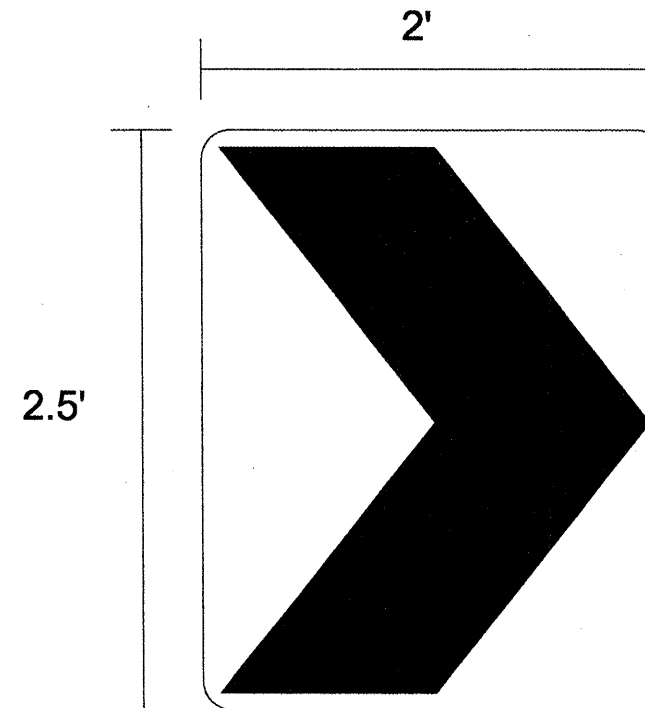
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 208	SHEET NO. 208
ILLINOIS FED. AID PROJECT				CONTRACT NO. 88773

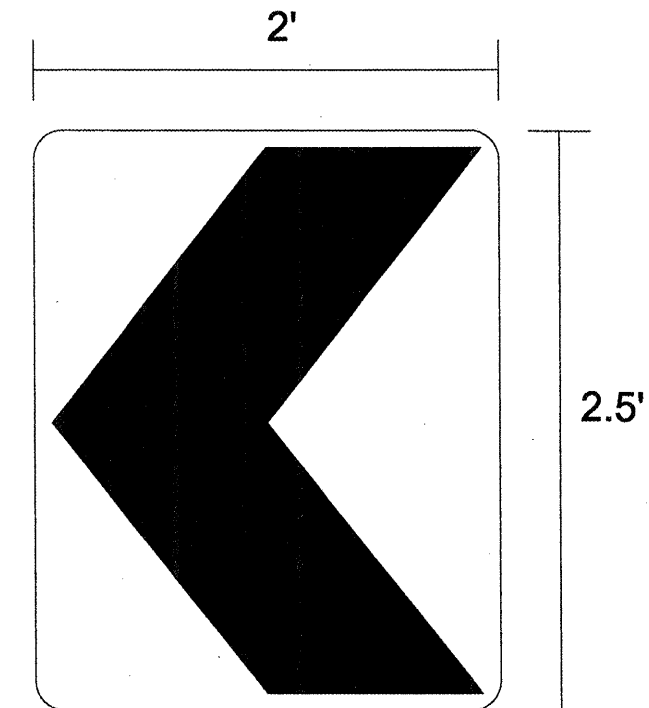


SIGNING SCHEDULE										
LOCATION		SIGN PANEL - TYPE I (front)			SIGN PANEL - TYPE I (back)			METAL POST - TYPE A		
STATION	OFFSET	SIZE	TYPE	SQ FT	SIZE	TYPE	SQ FT	D (FT)*	H (FT)*	TOTAL (FT)
78+66	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
80+18	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
81+70	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
83+22	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
84+74	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
86+25	18' RT	24"X30"	W1-8L	5	24"X30"	W1-8R	5	2.5	6	12
105+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
107+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
109+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
111+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
113+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
115+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
117+58	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
213+05	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
214+25	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
215+45	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
216+65	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
217+85	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
219+05	18' LT	24"X30"	W1-8R	5	24"X30"	W1-8L	5	2.5	6	12
RR Viaduct NW		12"x36"	OM-3R	3						
RR Viaduct NW		12"x36"	OM-3R	3						
RR Viaduct NE		12"x36"	OM-3L	3						
RR Viaduct NE		12"x36"	OM-3L	3						
RR Viaduct SW		12"x36"	OM-3L	3						
RR Viaduct SW		12"x36"	OM-3L	3						
RR Viaduct SE		12"x36"	OM-3R	3						
RR Viaduct SE		12"x36"	OM-3R	3						
TOTAL							214			228

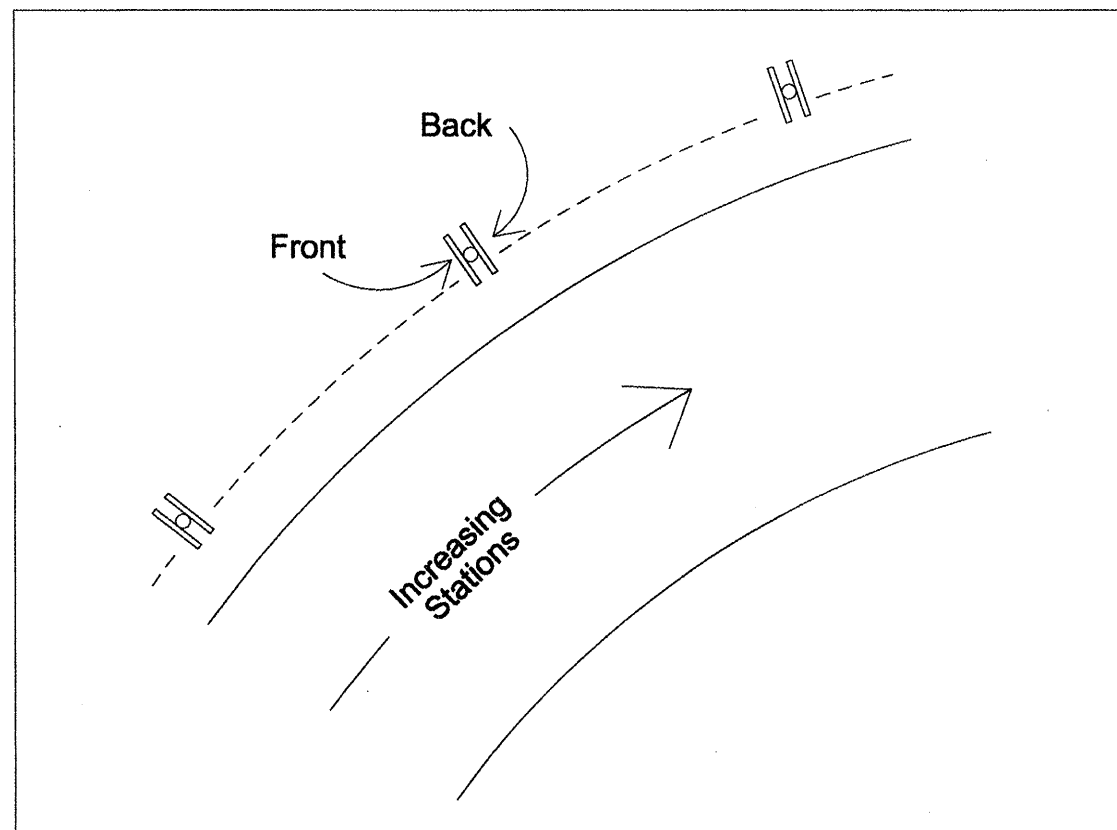
\* D is the sign depth, and H is the height from the ground to the bottom of the sign panel, as per Highway Standard 729001



W1-8R-2430



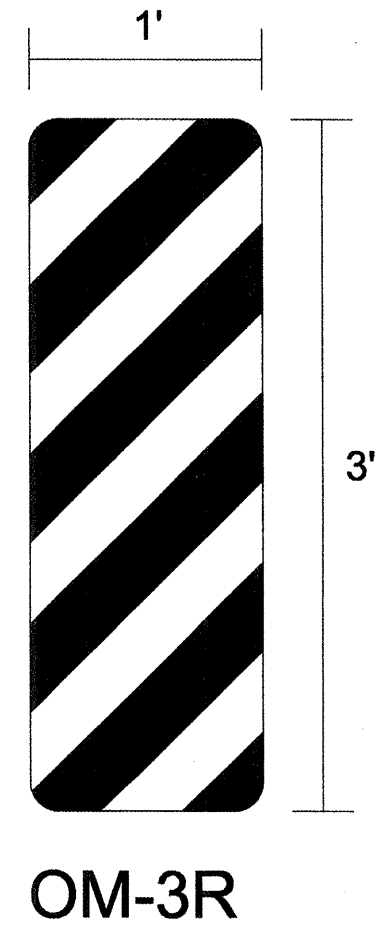
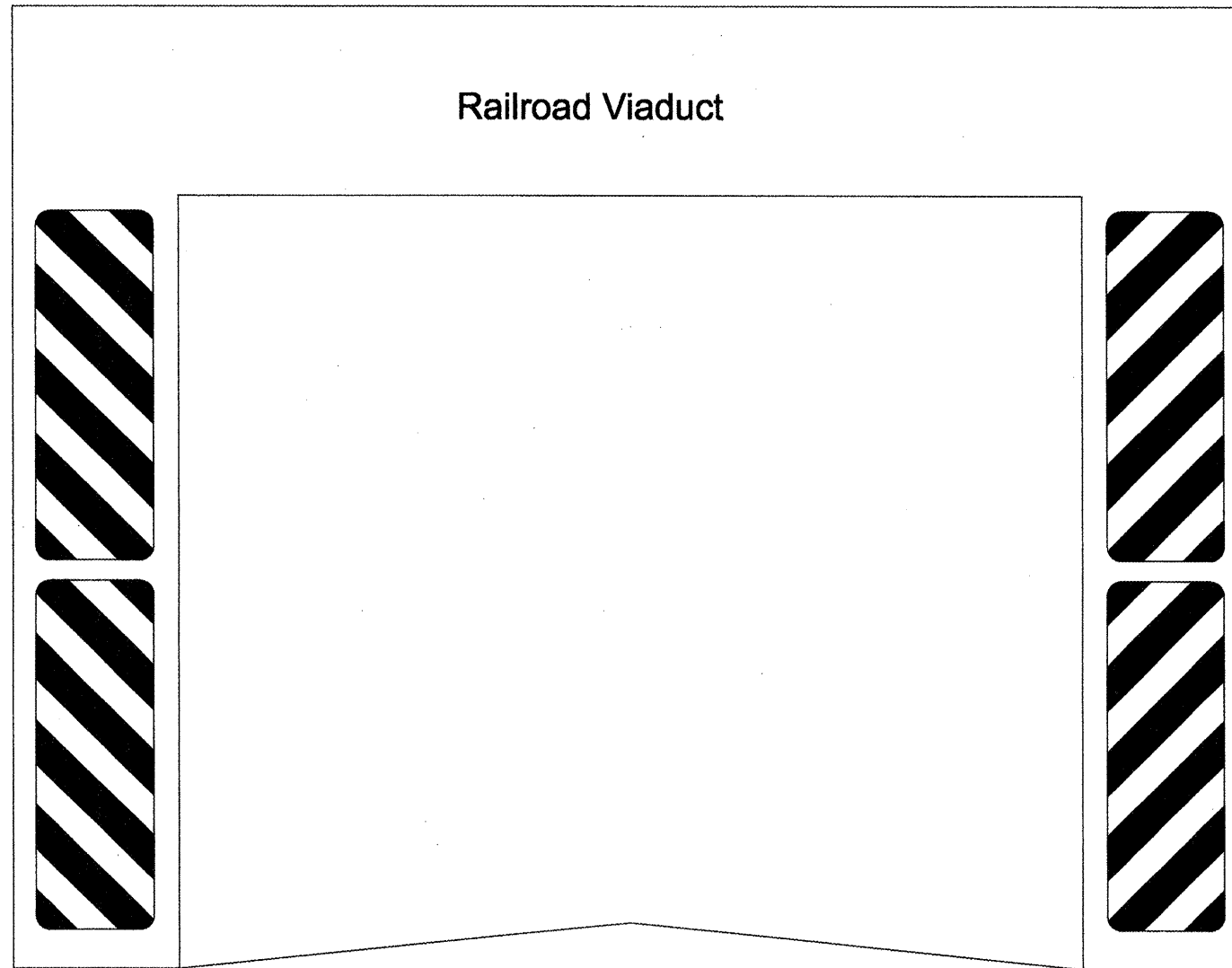
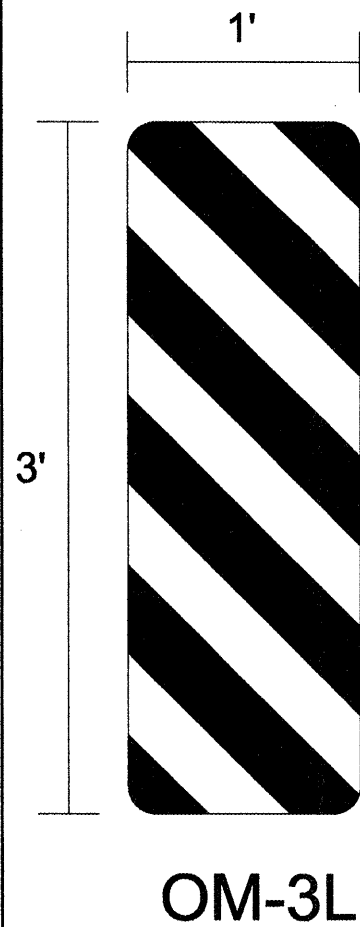
W1-8L-2430



Contact Traffic Operations West Area Technician - Randy Hartz (309) 734-3721 before any metal posts are placed to verify locations

See Highway Standards 720011 and 729001 for further details

Not to Scale



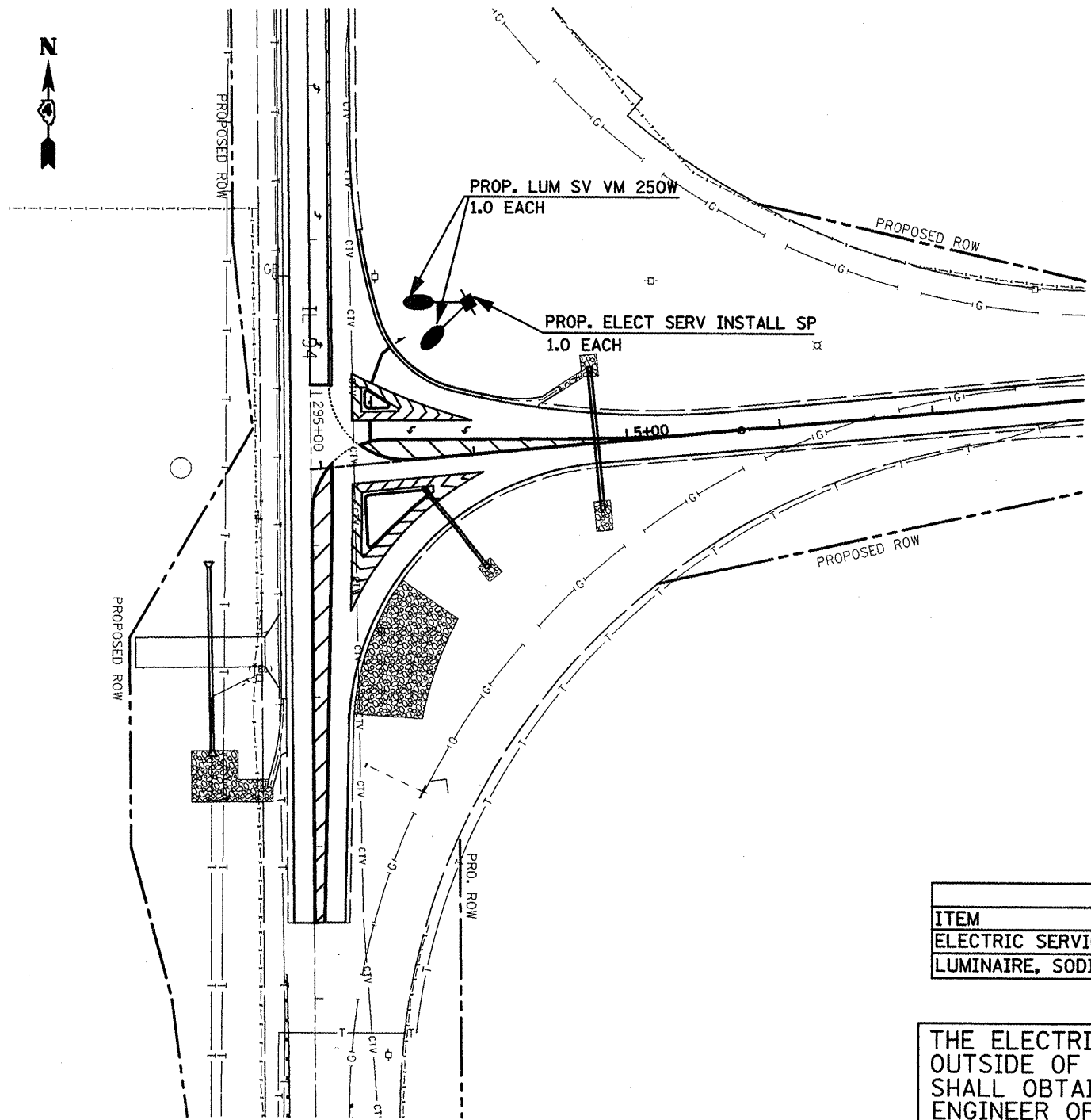
Sign panels to be placed as shown on both sides of the railroad viaduct and to be attached to the structure to the satisfaction of the Engineer.

The cost of removing the existing sign panels and cleaning and prepping the structure for the attachment of the new sign panels shall not be paid for separately but shall be considered included in the contract unit price per square foot for SIGN PANEL - TYPE I.

Not to Scale

FILE NAME = staging.dgn	USER NAME = hudsonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN PANEL DETAILS</b>	F.A.P. RTE. 665	SECTION •	COUNTY HENDERSON	TOTAL SHEETS 210	SHEET NO. 210
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 88773				
	PLOT DATE = 2/4/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

• (136,137)W&RS-3;136R109BR-2



BILL OF MATERIALS		
ITEM	UNIT	QTY.
ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1.0
LUMINAIRE, SODIUM VAPOR, <b>MULTI-</b> MOUNT, 250 W	EACH	2.0

THE ELECTRICAL SERVICE POLE SHALL BE LOCATED OUTSIDE OF THE CLEAR ZONE. THE CONTRACTOR SHALL OBTAIN LOCATION VERIFICATION FROM THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.

FILE NAME = IL 94 Lighting.dgn	USER NAME = ghidream	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION LIGHTING PLAN**

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

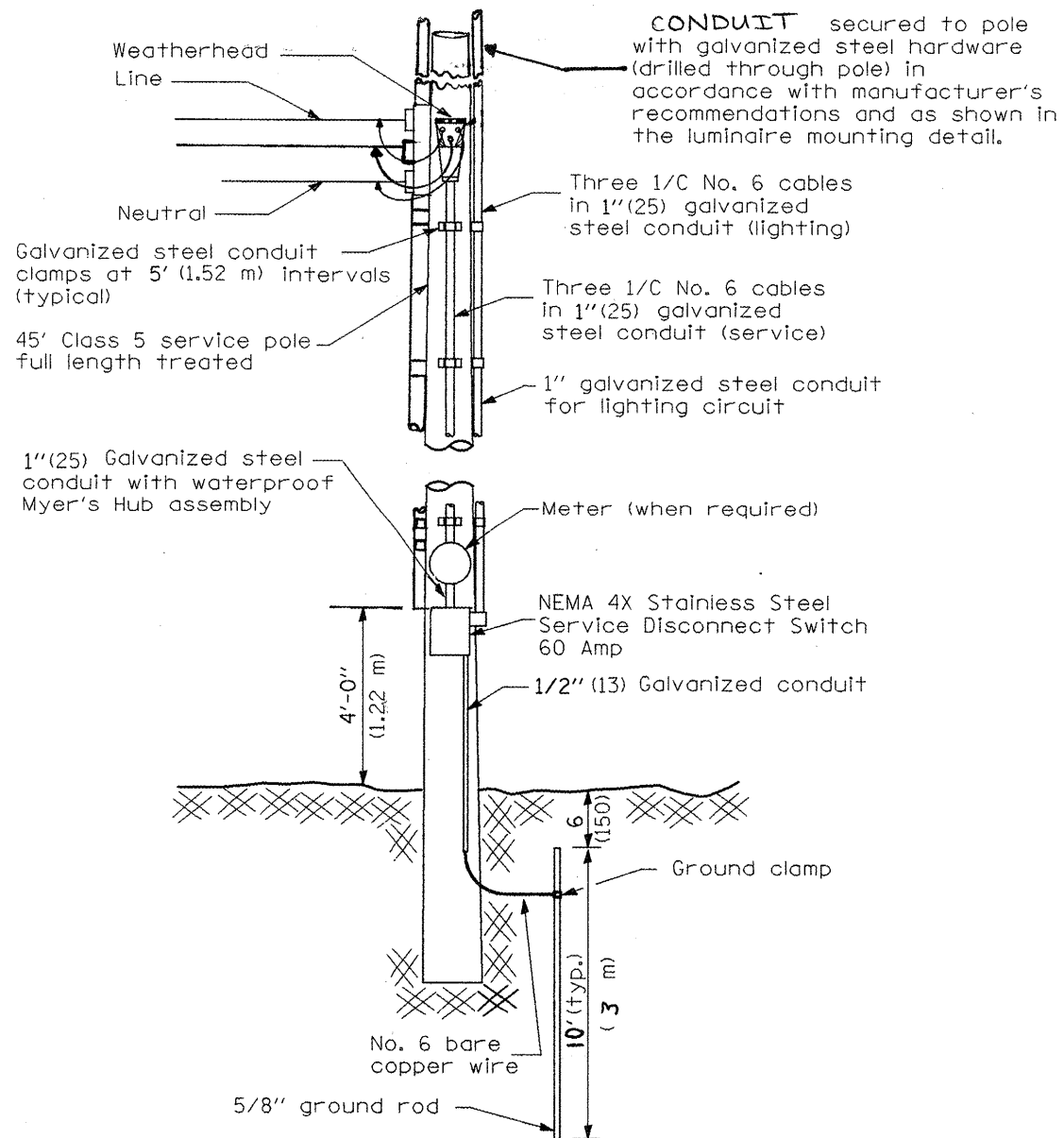
F.A.P. RTE. = 665	SECTION 136,137W&RS-3+136R109BR-2	COUNTY HENDERSON	TOTAL SHEETS 211	SHEET NO. 211
CONTRACT NO. 88773				



## INSTALLATION NOTES

1. The wood pole shall be located outside of the clear zone. The Contractor shall obtain location verification from the Engineer prior to installation.
2. The Contractor shall provide a twin tenon bracket assembly, guy wires, and all other items required to complete the installation.
3. The twin tenon bracket shall be designed and manufactured for twin 45 kg (100 lb.) luminaires having an effective projected area each of 0.36 sq m (3.85 sq ft). Catalog cut sheets for the bracket shall be submitted to the Engineer as part of the data and product information submitted for approval.
4. The tenon shall extend 150 mm (6 in.) above the pole top and meet AASHTO loading requirements for the luminaires referenced above.

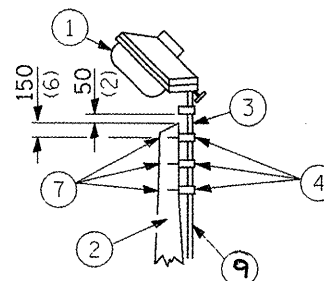
## ELECTRICAL SERVICE INSTALLATION DETAIL



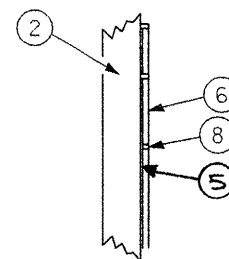
## LUMINAIRE MOUNTING DETAIL

**INSTALL 2 CONDUIT RISERS, ONE ON EACH SIDE OF POLE.  
INSTALL 2 LUMINAIRES ON OPPOSING SIDES OF THE POLE  
(ONLY ONE SHOWN)**

Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.



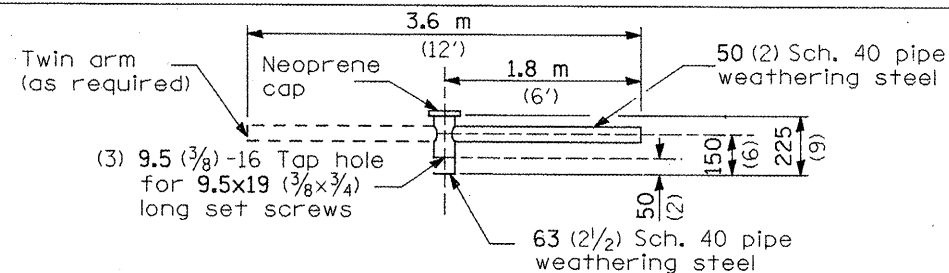
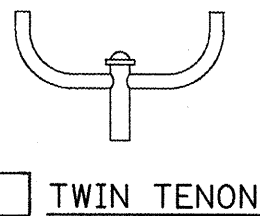
POLE LENGTH	DEPTH IN GROUND
13.7 m (45')	2.1 m (7')



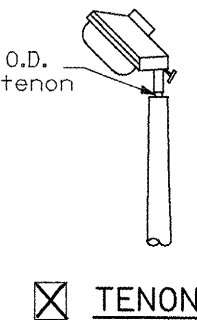
**WOOD POLE**

- ① Luminaire
- ② Wood pole, class 4 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Three 1/c #6 Type XLP-USE cable
- ⑥ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑦ 16 (5/8) Ø hot dipped galvanized bolt WITH flat washer & locknut (3 req'd)
- ⑧ Conduit clamps on 900 (36) centers
- ⑨ CONDUIT REDUCER

## TENON MOUNT DETAILS

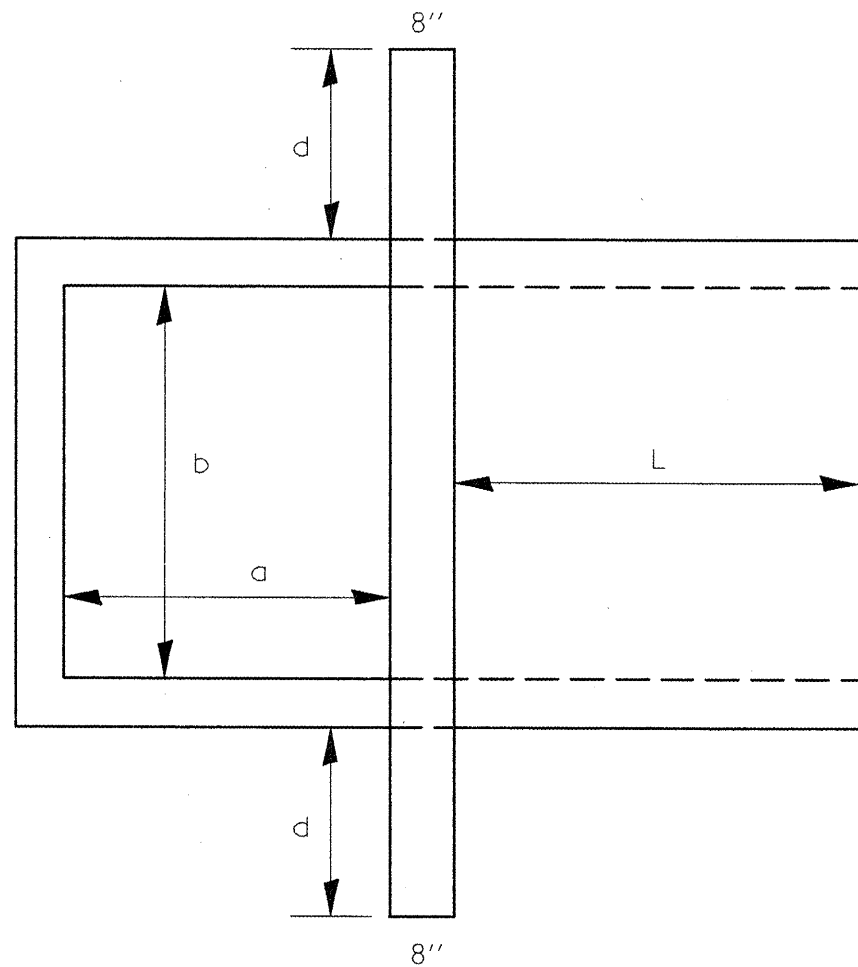


**TENON MOUNT BRACKET ARM**

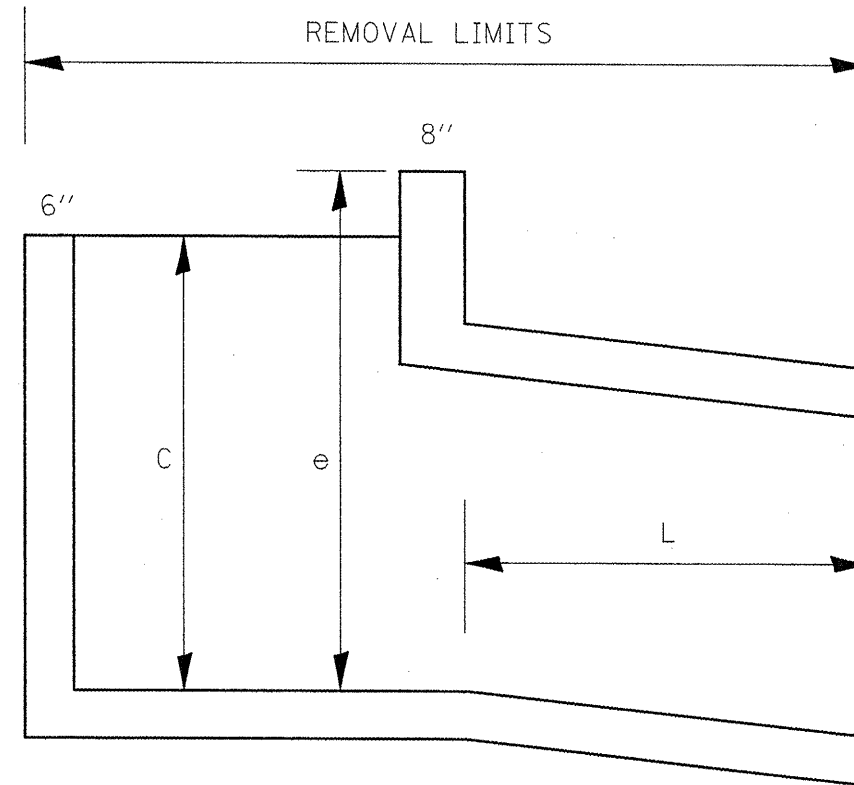


"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 ( 21/64) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

PLAN VIEW



X-SECTION VIEW



STRUCTURE NO.	STATION	a	b	c	d	e	L
		FEET	FEET	FEET	FEET	FEET	FEET
1	RT. 2+30.1	3.0	2.0	3.5	3.25	6.0	0.0
2	RT. 112+47.9	3.0	3.0	3.5	0	5.0	4.0
3	RT. 153+75.7	4.0	4.0	5.0	3.5	7.5	4.0
4	RT. 178+24.8	5.0	3.0	3.0	2.0	4.0	4.0
5	RT. 184+01	4.0	4.0	4.0	0	5.0	6.5

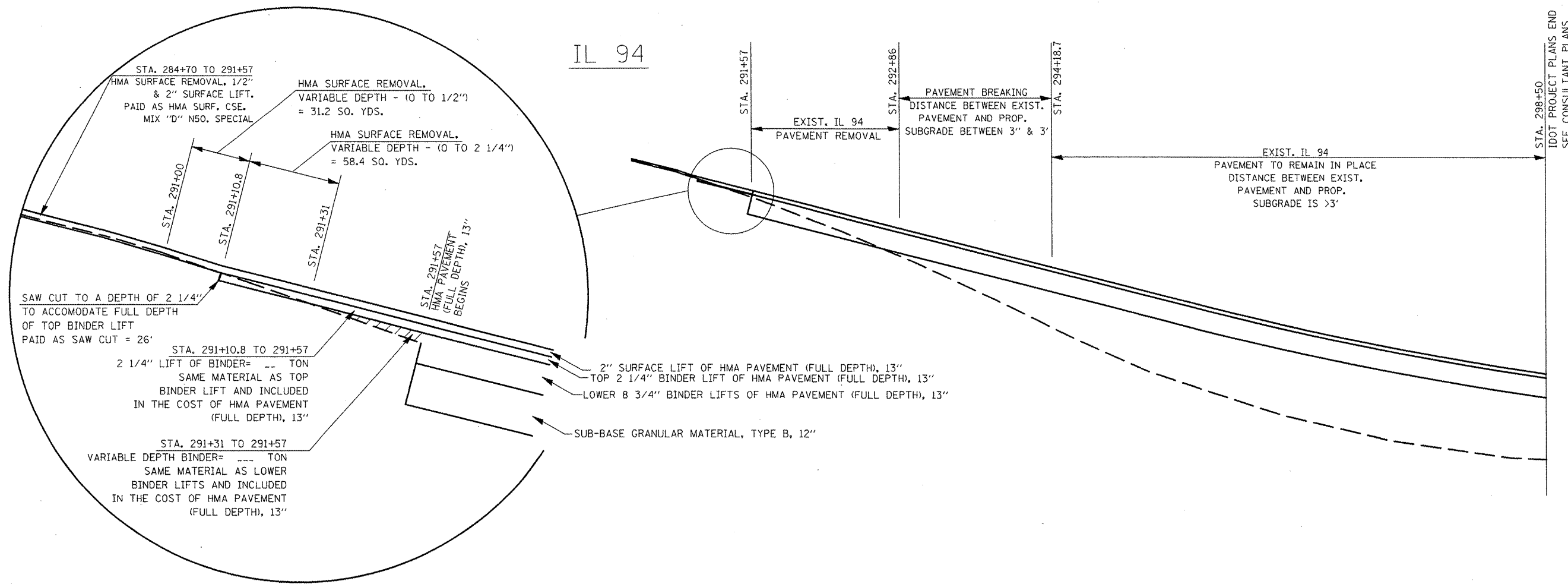
FILE NAME = sh101.dgn	USER NAME = ghdinaem	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE REMOVAL DETAIL

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136.137)W&S-3(136R)109BR-2	HENDERSON		213
FED. ROAD DIST. NO. 4				ILLINOIS FED. AID PROJECT
CONTRACT NO. 88773				



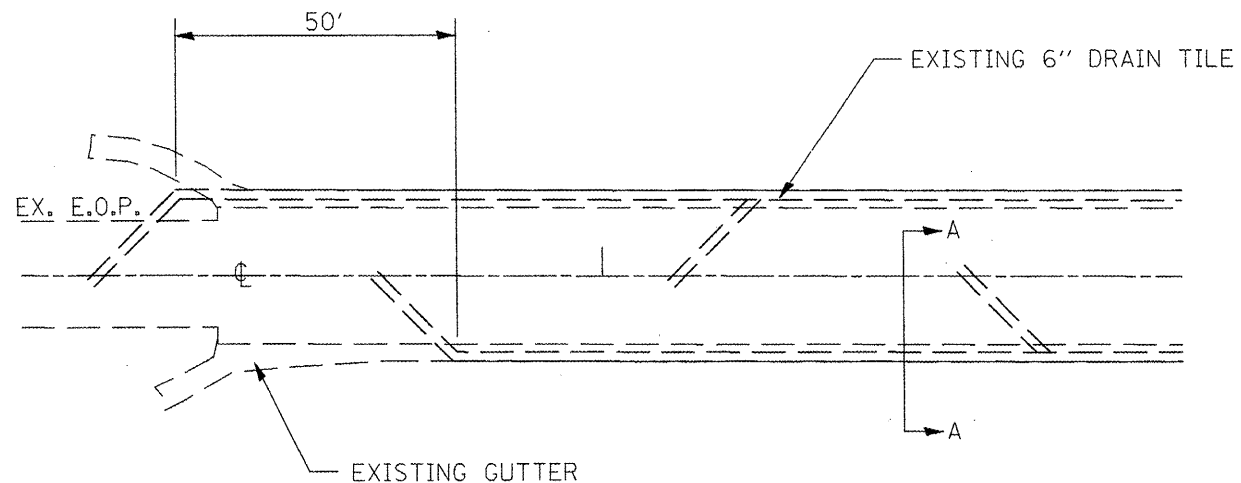
FILE NAME = shv01.dgn	USER NAME = ghidroom	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 94 - NORTH PAVEMENT CONNECTION</b>	F.A.P. RTE. 665	SECTION 136,137W&RS-3136R109BR-2	COUNTY HENDERSON	TOTAL SHEETS 214	SHEET NO. 214	
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			CONTRACT NO. 88773					
	PLOT DATE = 1/29/2009	CHECKED -	REVISED -			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			



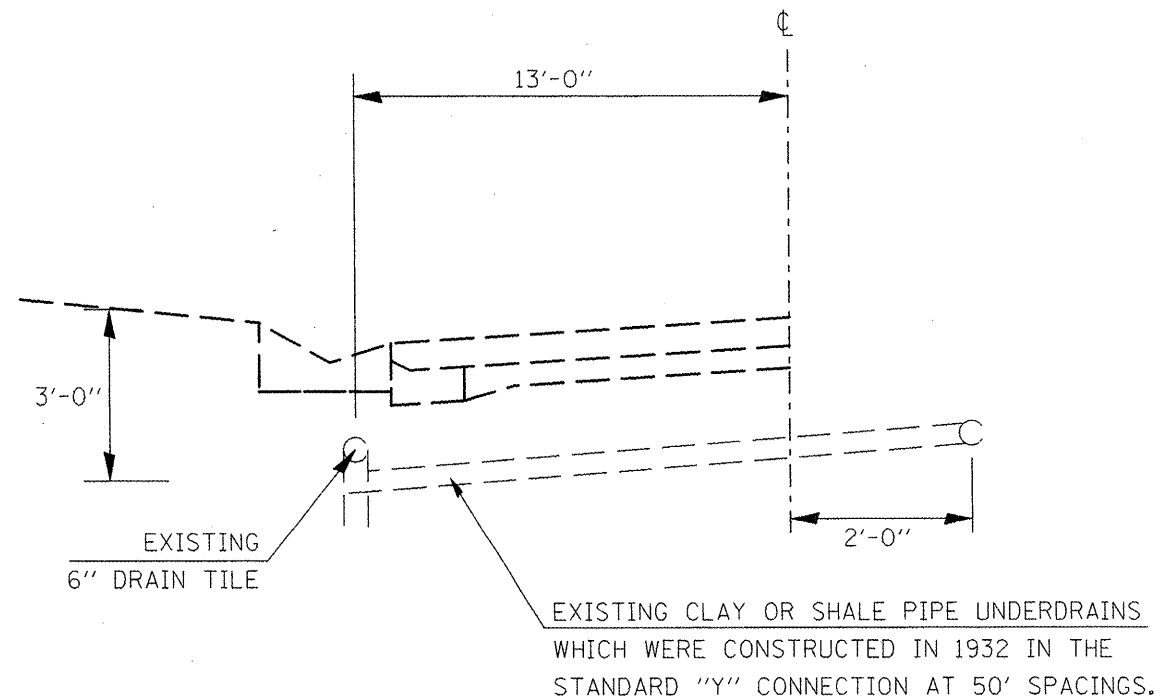
NOTE:

IT IS UNDERSTOOD THAT THERE ARE EXISTING UNDERDRAINS AT THE FOLLOWING LOCATIONS:  
 RT. & LT. STA. 117+00 TO 133+00  
 RT. & LT. STA. 157+25 TO 163+25

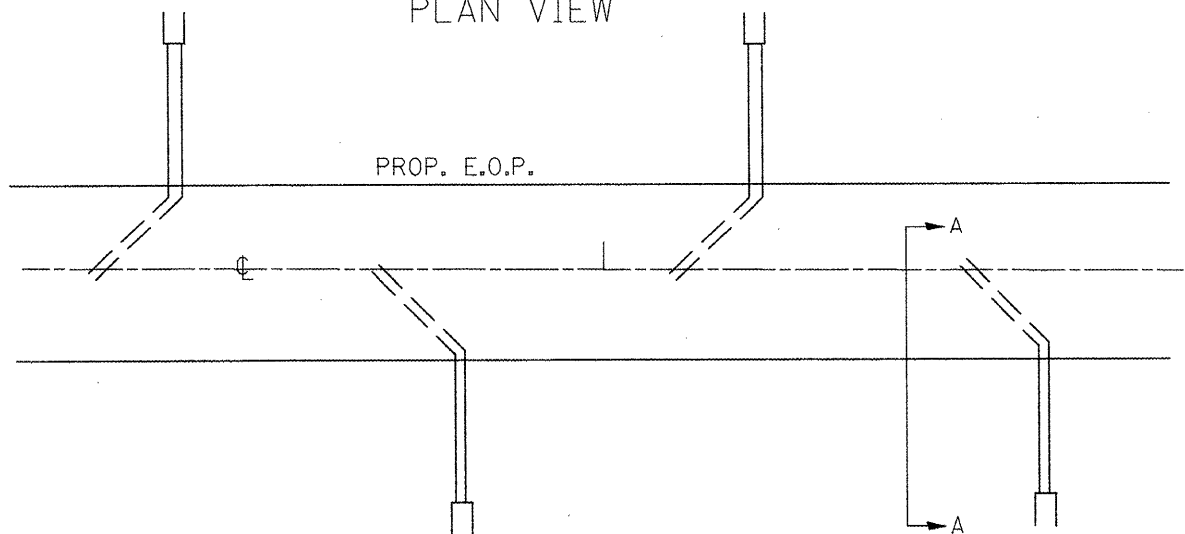
EXISTING  
PLAN VIEW



EXISTING  
SECTION A-A

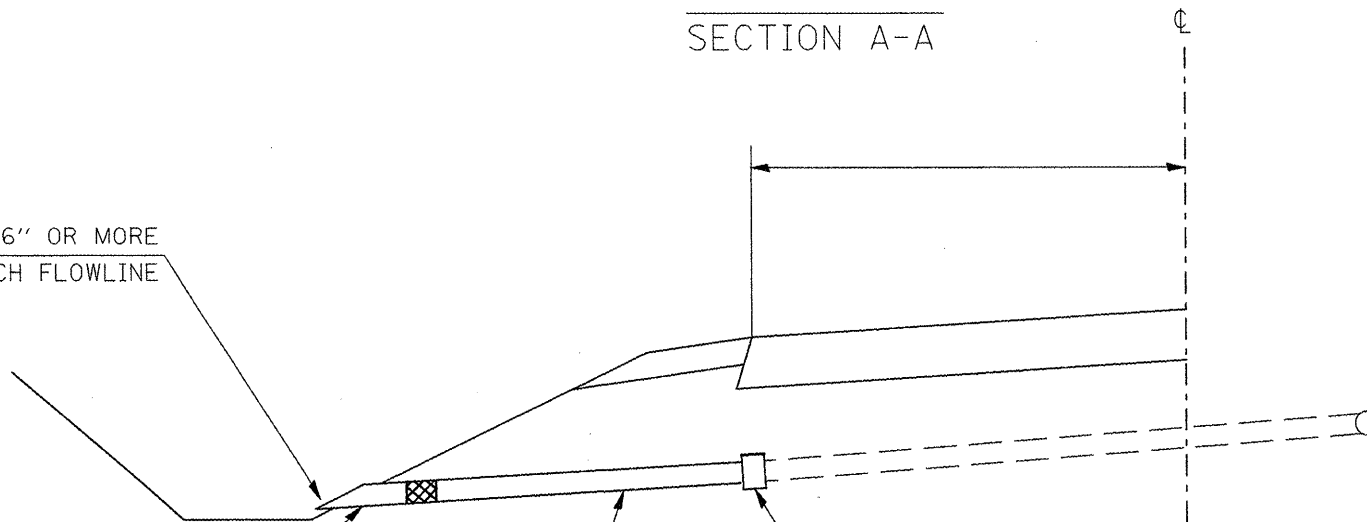


PROPOSED  
PLAN VIEW



PROPOSED  
SECTION A-A

TILE FLOWLINE 6" OR MORE  
ABOVE DITCH FLOWLINE



CONCRETE HEADWALL FOR PIPE DRAINS  
 (RODENT SHIELD SHALL BE INCLUDED IN THE COST OF  
 CONCRETE HEADWALL FOR PIPE DRAINS. REFER TO  
 STATE STANDARD 601101-01 FOR RODENT SHIELD DETAILS)

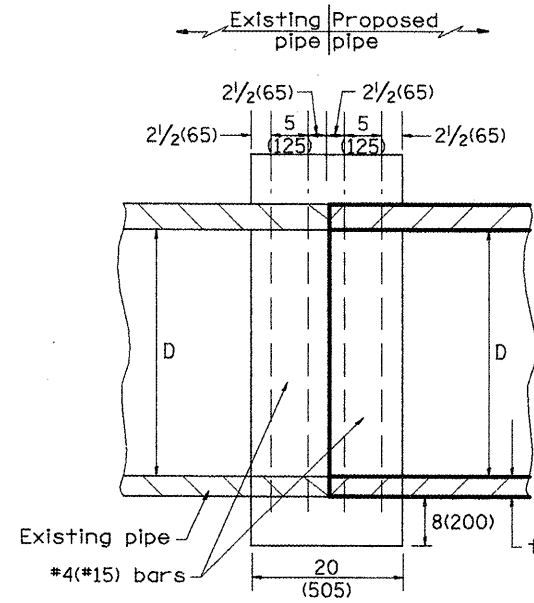
ALL LABOR, SUITABLE CUPLING, FITTINGS  
 AND OTHER FASTENERS NEEDED TO CONNECT  
 EXISTING UNDERDRAINS TO THE PROPOSED  
 UNDERDRAINS SHALL BE INCLUDED IN THE  
 COST OF PIPE UNDERDRAIN 6", SPECIAL

FILE NAME = sht01.dgn	USER NAME = ghudnam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

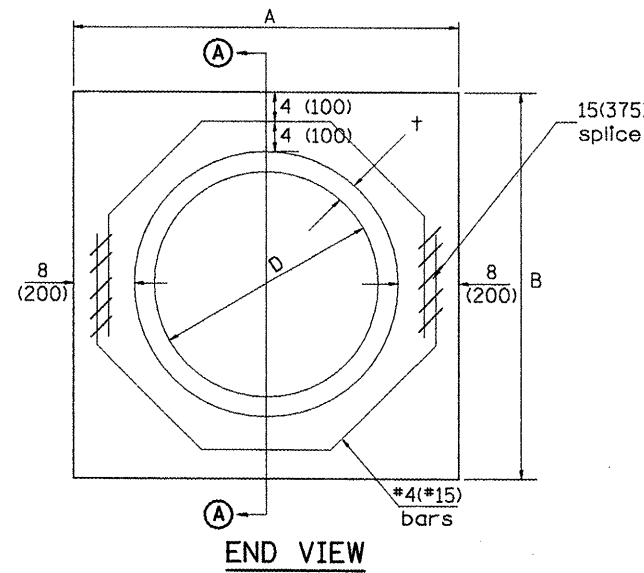
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIPE UNDERDRAIN 6", SPECIAL DETAIL  
 SHEET 1 OF 2  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

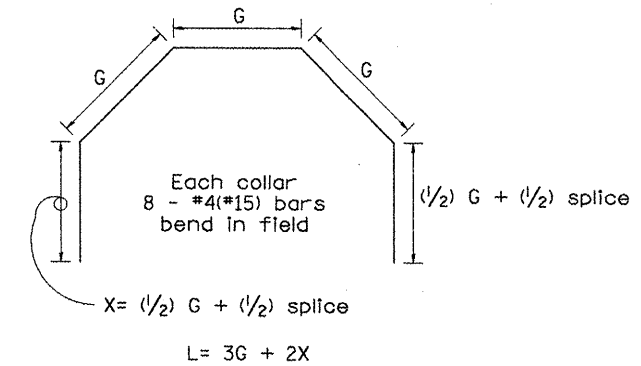
F.A. RTE. 665	SECTION (136,137)W&RS-3(136R)109BR-2	COUNTY HENDERSON	TOTAL SHEETS 215	SHEET NO. 215
CONTRACT NO. 88773			ILLINOIS FED. AID PROJECT	



SECTION A - A



END VIEW



Each Collar									
					Reinforcement Bars				
D	t	A	B	CL. SI CONC.	G	X	L	Weight	
in (mm)	in (mm)	ft (m)	ft (m)	cu. yd. (m <sup>3</sup> )	in (mm)	in (mm)	ft (m)	lb (kg)	
12 (300)	2.00 (51)	2.67 (0.814)	2.67 (0.814)	0.4 (0.270)	9 <sup>15</sup> / <sub>16</sub> (253)	12 <sup>7</sup> / <sub>16</sub> (317)	4.57 (1.393)	24 (11)	
15 (375)	2.25 (57)	2.96 (0.902)	2.96 (0.902)	0.4 (0.315)	11 <sup>3</sup> / <sub>8</sub> (290)	13 <sup>3</sup> / <sub>16</sub> (335)	5.05 (1.541)	27 (12)	
18 (450)	2.50 (64)	3.25 (0.991)	3.25 (0.991)	0.5 (0.362)	12 <sup>13</sup> / <sub>16</sub> (327)	13 <sup>7</sup> / <sub>8</sub> (354)	5.54 (1.689)	30 (14)	
21 (525)	2.75 (70)	3.54 (1.079)	3.54 (1.079)	0.5 (0.411)	14 <sup>1</sup> / <sub>4</sub> (364)	14 <sup>5</sup> / <sub>8</sub> (372)	6.02 (1.836)	32 (15)	
24 (600)	3.00 (76)	3.83 (1.167)	3.84 (1.167)	0.6 (0.460)	15 <sup>11</sup> / <sub>16</sub> (401)	15 <sup>5</sup> / <sub>16</sub> (391)	6.51 (1.984)	35 (16)	
27 (675)	3.25 (83)	4.13 (1.259)	4.13 (1.259)	0.7 (0.516)	17 <sup>1</sup> / <sub>4</sub> (438)	16 <sup>1</sup> / <sub>16</sub> (409)	6.99 (2.131)	37 (17)	
30 (750)	3.50 (89)	4.42 (1.347)	4.42 (1.347)	0.7 (0.570)	18 <sup>11</sup> / <sub>16</sub> (475)	16 <sup>3</sup> / <sub>4</sub> (428)	7.48 (2.279)	40 (18)	
33 (825)	3.75 (95)	4.71 (1.436)	4.71 (1.436)	0.8 (0.624)	20 <sup>1</sup> / <sub>8</sub> (512)	17 <sup>1</sup> / <sub>2</sub> (446)	7.96 (2.426)	43 (19)	
36 (900)	4.00 (102)	5.00 (1.524)	5.00 (1.524)	0.9 (0.682)	21 <sup>9</sup> / <sub>16</sub> (549)	18 <sup>3</sup> / <sub>16</sub> (465)	8.44 (2.574)	45 (20)	
42 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 <sup>7</sup> / <sub>16</sub> (622)	19 <sup>3</sup> / <sub>4</sub> (501)	9.41 (2.869)	50 (23)	
48 (1200)	5.00 (127)	6.17 (1.881)	6.17 (1.881)	1.2 (0.930)	27 <sup>5</sup> / <sub>16</sub> (696)	21 <sup>3</sup> / <sub>16</sub> (538)	10.38 (3.164)	55 (25)	

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.

QUANTITIES

CALC. BY: R. J. D. 2-2-98  
 CHECKED BY: R. D. H. 2-6-98  
 DATE: DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE, BUREAU OF PROJECT IMPLEMENTATION, DOCUMENTATION SECTION

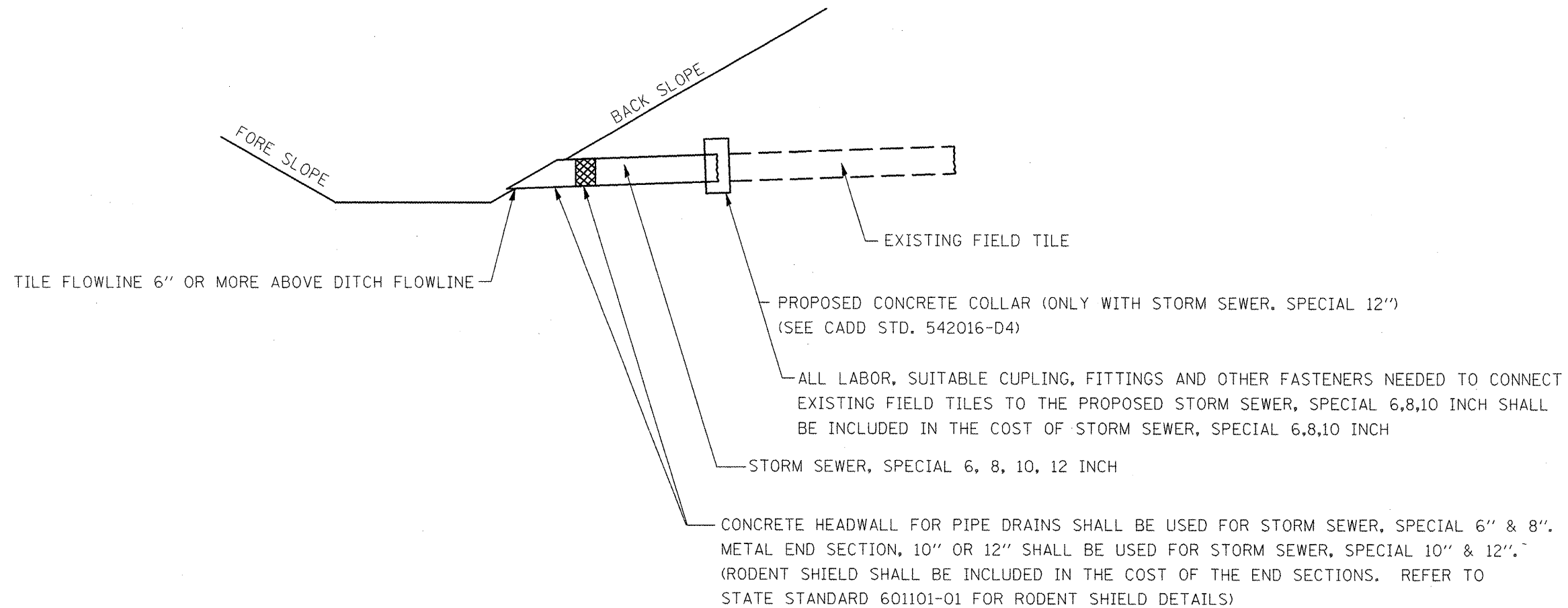
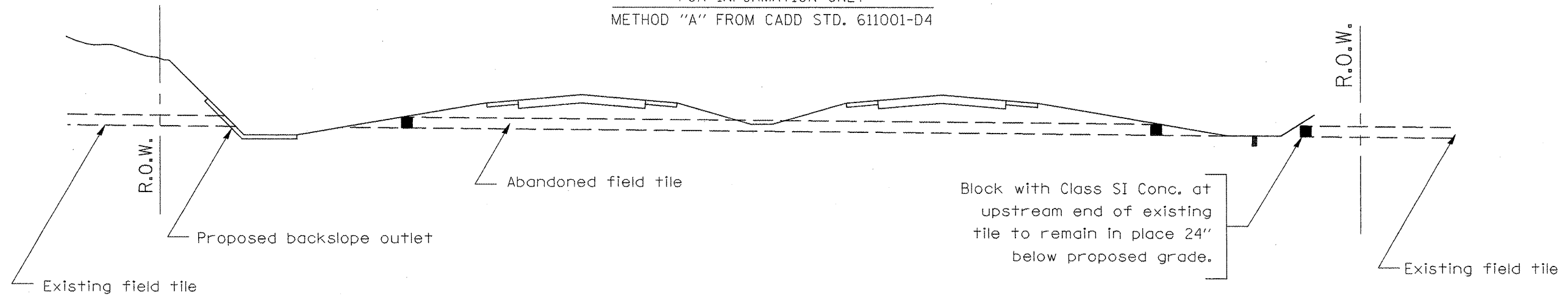
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. B-8.03, NEW REVISION BOX, REVISED	T.P.	09-01-00	CORRECT WEIGHT	J.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	TITLE BOX, ADDED QUANTITY CALCULATION BOX		10-16-06	REV. TO 2007 SPEC., CORRECT mm UNITS	M.A.			665	(136,137)W&RS-3+136R+109BR-2	HENDERSON	2/6		
04-01-97	CORRECT BAR	J.A.						CONTRACT NO. 88773					
02-10-98	REVISE QUANTITIES	J.A.						CADD STD. 542016-D4 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

NOT TO SCALE

CADD STD. 542016-D4

FOR INFORMATION ONLY  
METHOD "A" FROM CADD STD. 611001-D4



01-01-97	RENUM. A-18.02, NEW REVISION BOX, REVISED TITLE BOX	T.P.			
06-01-97	REVISED DRAWING & TITLE BOX	J.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

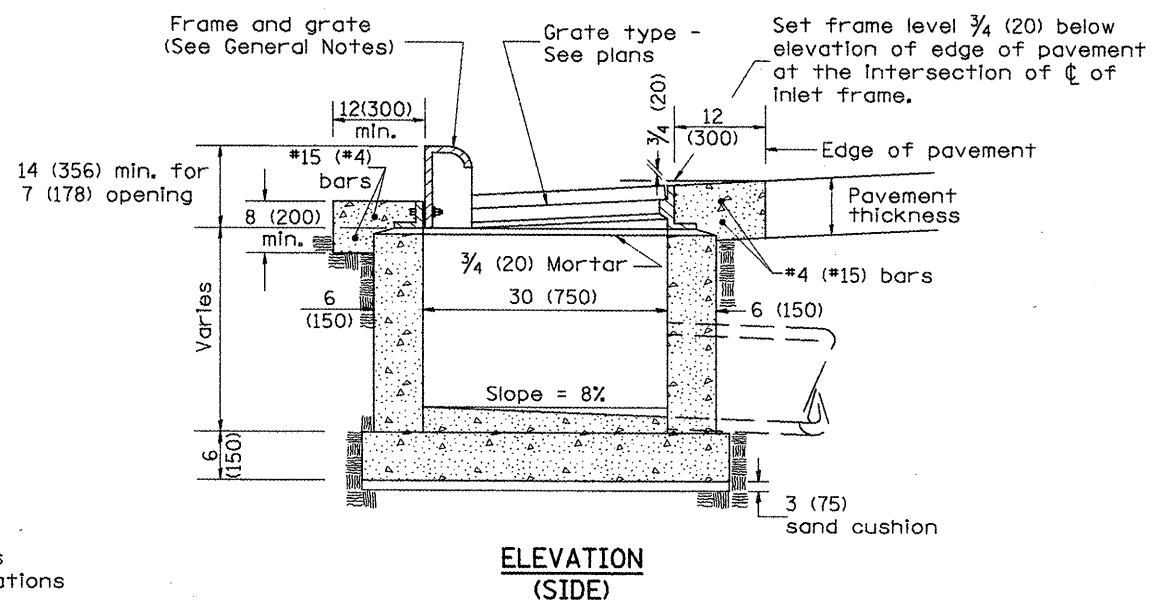
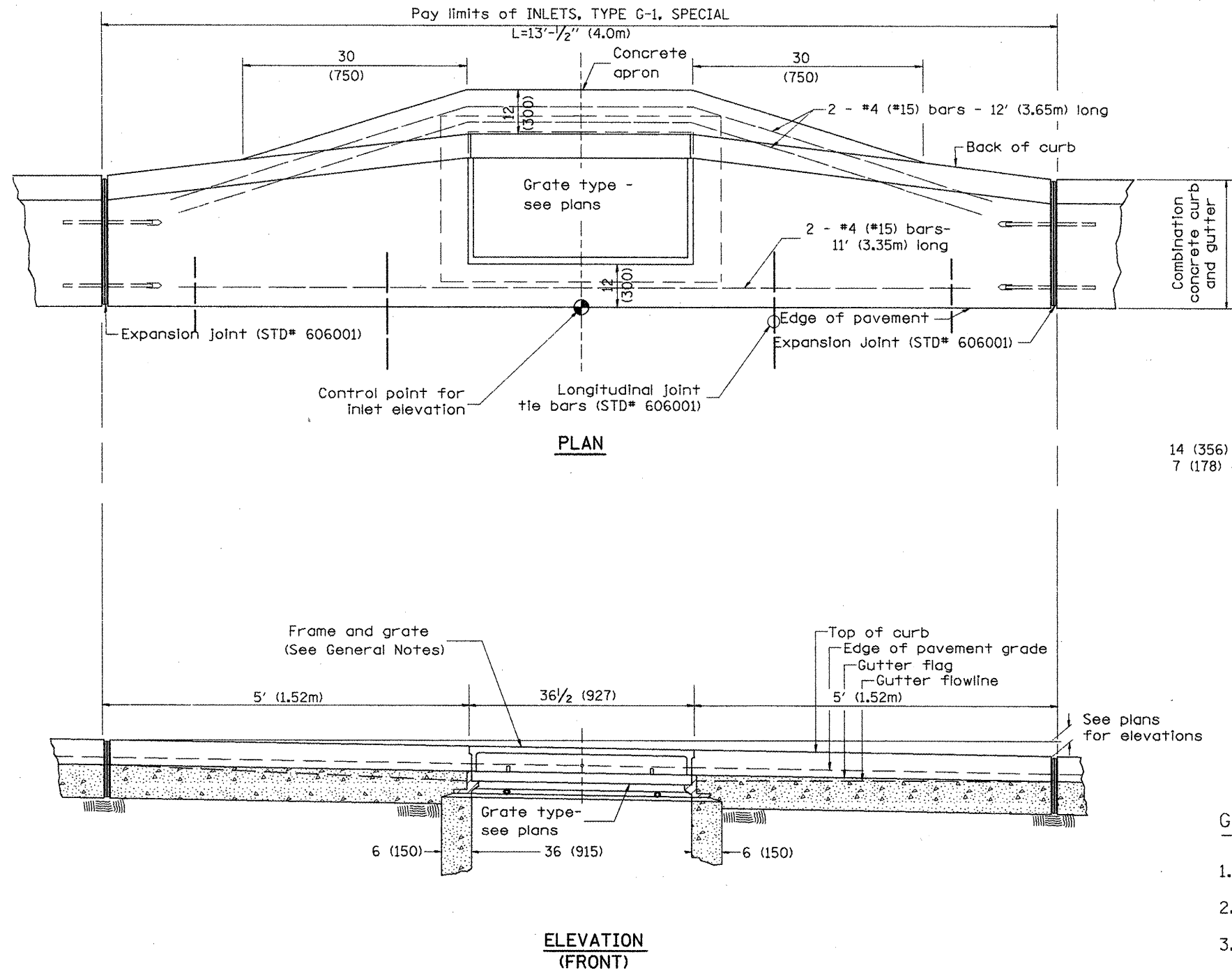
STORM SEWER, SPECIAL DETAIL

NOT TO SCALE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3d136R109BR-2	HENDERSON		217
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 88773

DESIGNER NOTES: 1. Include State Standard 606001 for combination concrete curb and gutter details.  
 2. Include State Standard 420001 for pavement joints.  
 3. Include District CADD Standard for frame and grates.  
 4. Include District Special Provision. Pay item includes transitional c.c.c & g., inlet and frame and grate. All work within pay limits.  
 5. Specify grate type in plans.



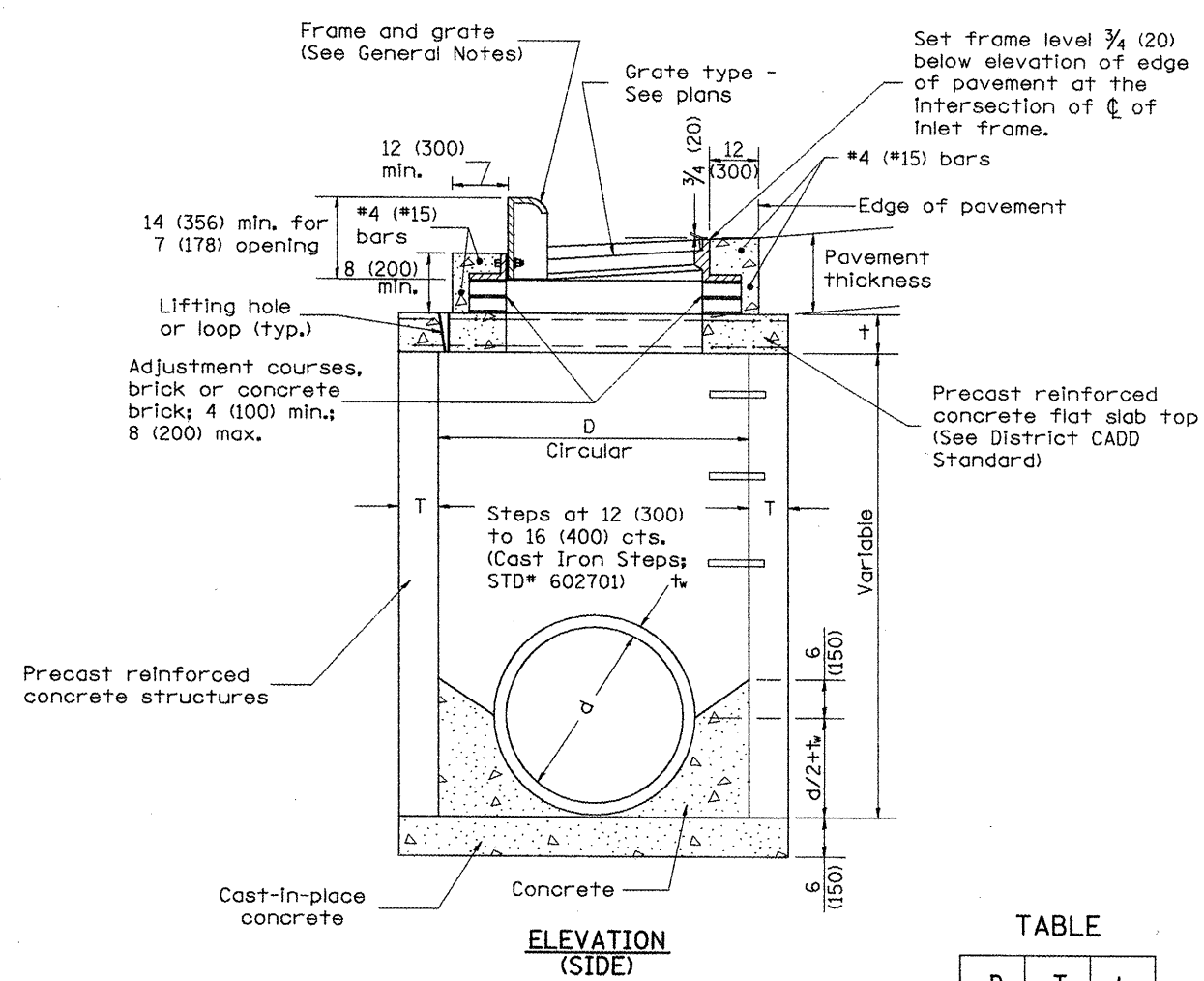
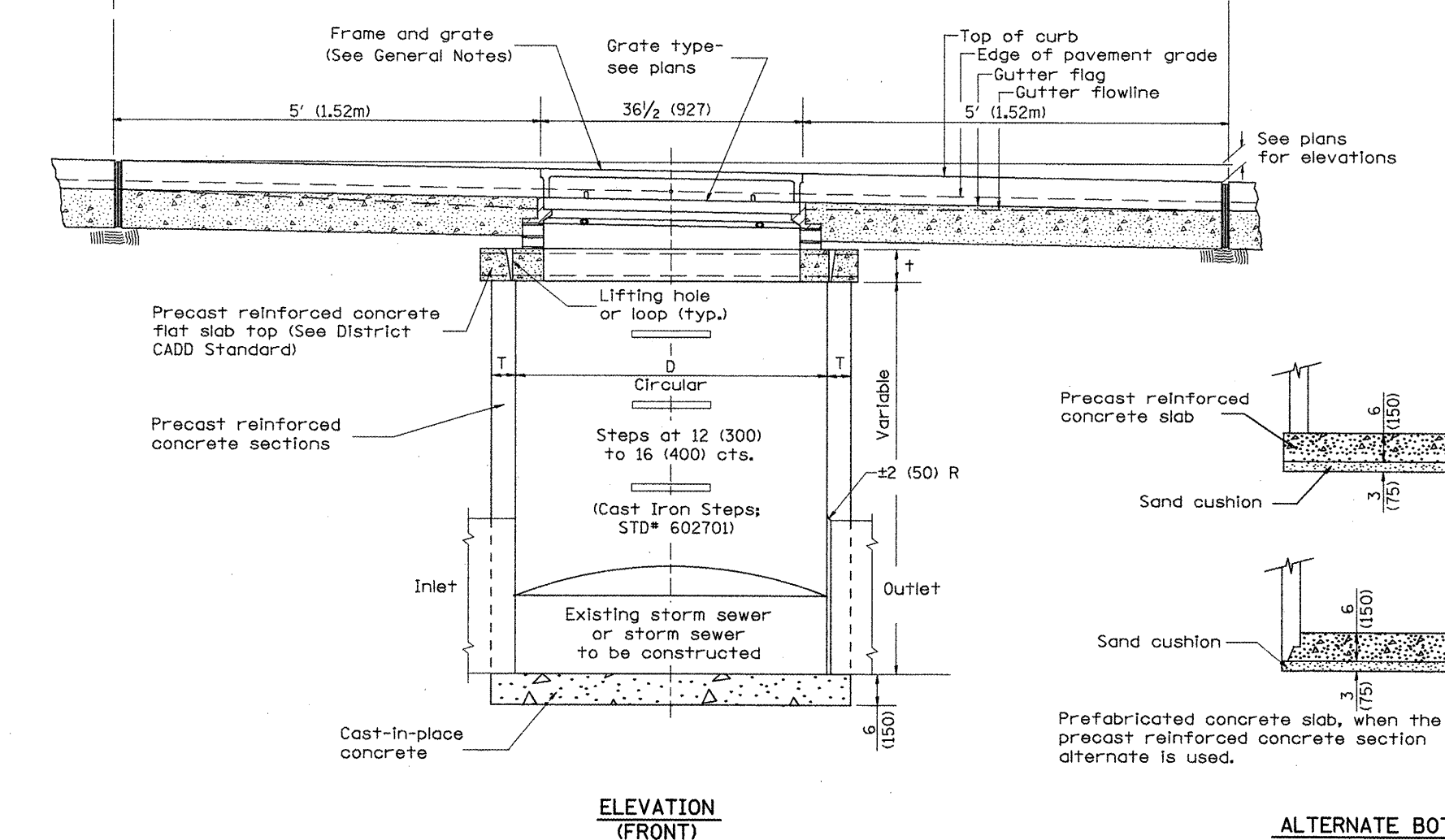
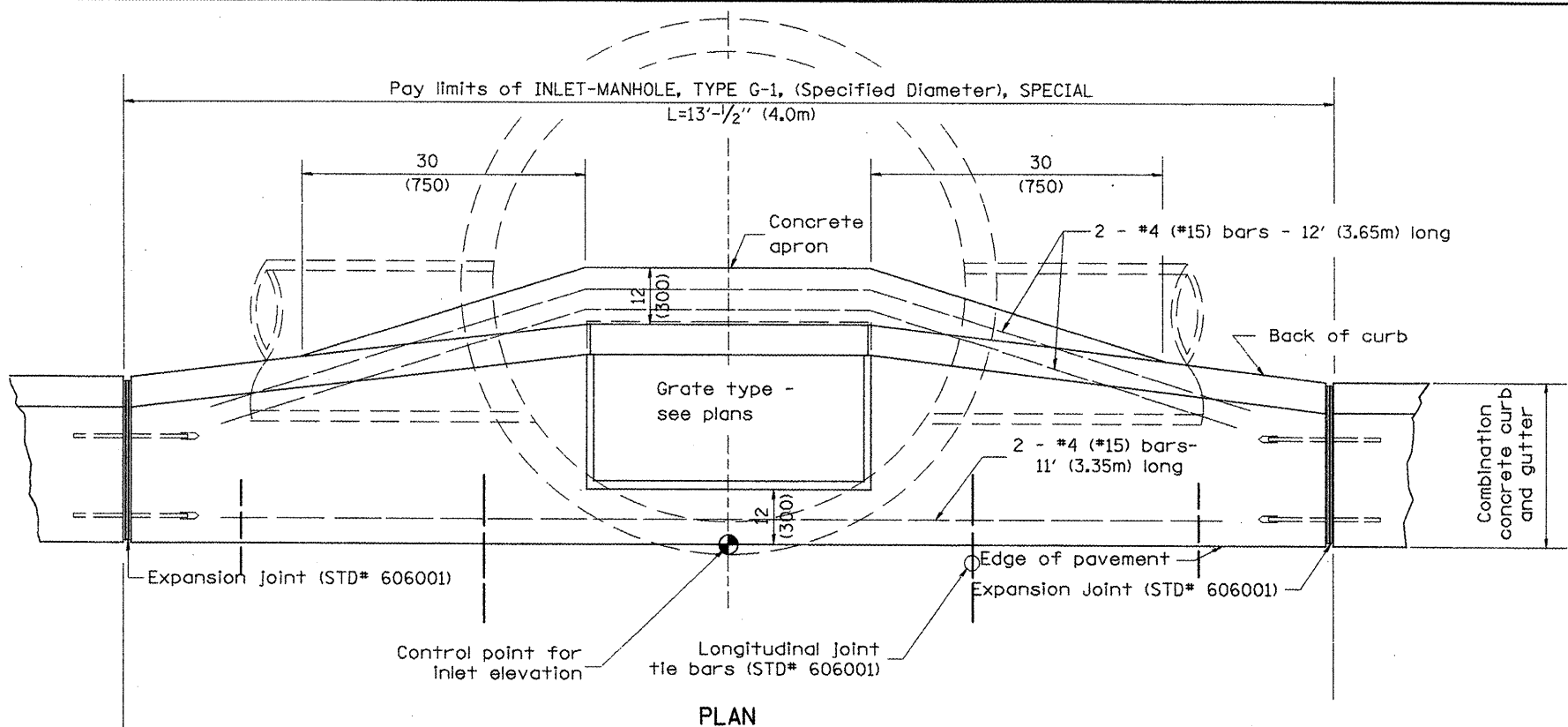
**GENERAL NOTES**

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb and Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

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

01-01-97	RENUM. B-4.02, NEW REVISION BOX				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INLETS, TYPE G-1, SPECIAL</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
12-01-98	CORRECT E.O.P. NOTE	J.A.										218
10-99	REVISION TO GENERAL NOTES	J.A.										
10-16-06	REVISED TO 2007 SPEC.	M.A.										
NOT TO SCALE						CADD STD. 602006-D4		CONTRACT NO.				
						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:  
 1. Include State STD# 606001 for combination concrete curb and gutter details.  
 2. Include State STD# 420001 for pavement joints.  
 3. Include State STD# 602701 for cast iron steps.  
 4. Include District CADD Standard for frame and grates.  
 5. Include District CADD Standard for precast reinforced concrete flat slab top.  
 6. Include District CADD Standard for precast reinforced concrete curb and gutter.  
 7. Specify diameter of inlet - manhole, flat slab top, transitional c.c.&g. and frame and grate. All work within pay limits.  
 8. Specify grate type in plans.



TABLE

D	T	t
4' (1.2m)	5 (125)	6 (150)
5' (1.5m)	6 (150)	8 (200)
6' (1.8m)	7 3/4 (195)	8 (200)
8' (2.4m)	9 (225)	10 (250)

GENERAL NOTES

1. Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.
4. See District CADD Standard for precast reinforced concrete flat slab top.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INLET-MANHOLE, TYPE G-1, SPECIAL

All dimensions are in Inches (millimeters) unless otherwise noted.

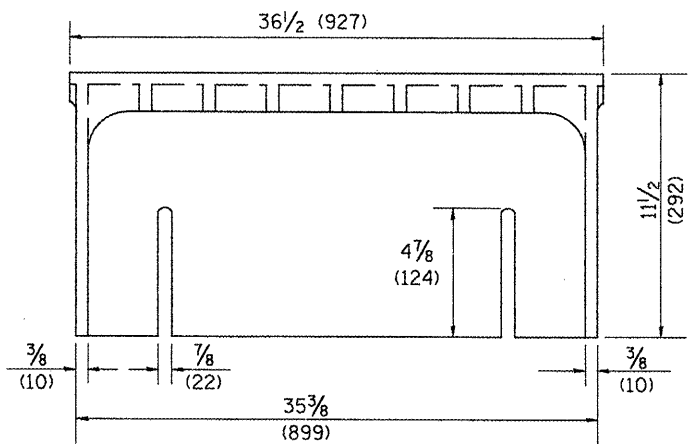
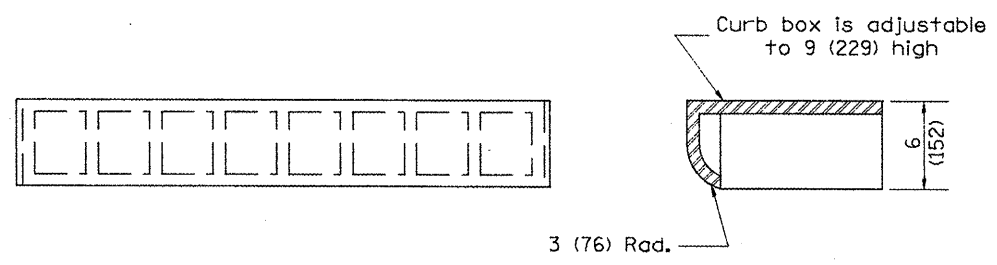
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				219
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

01-01-97	RENUM. B-4.06, NEW REVISION BOX	T.P.
12-01-98	CORRECT E.O.P. NOTE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

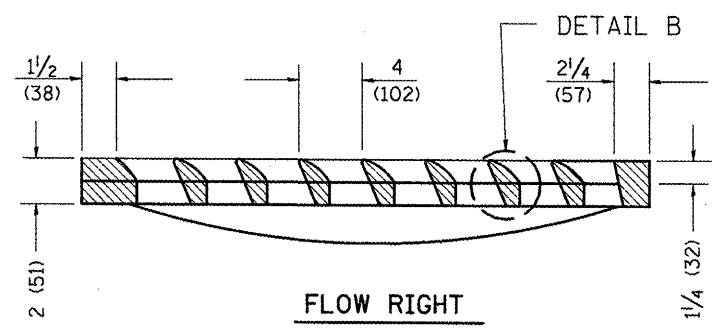
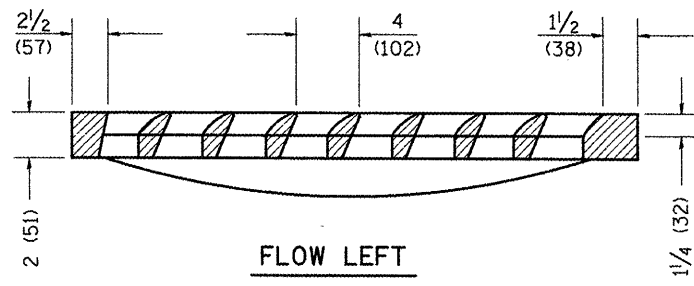
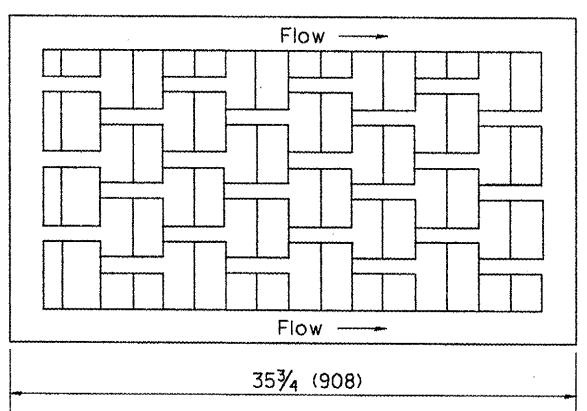
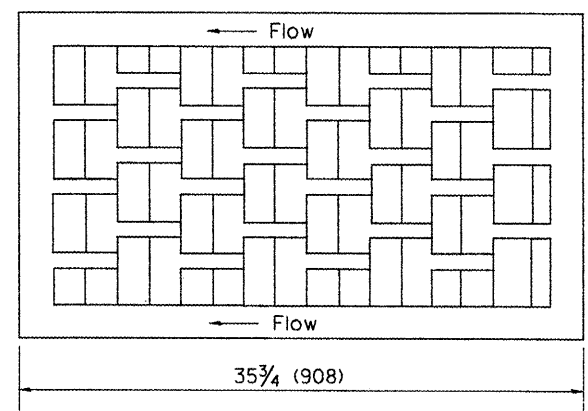
NOT TO SCALE

CADD STD. 602026-D4

1. Quantity given in this drawing is for use in estimating quantities.  
 2. These castings are included in the cost of the drainage structures as per District Special Provision.  
 3. Inlet Frames R-3246-A, Curb Box R-3246-A, Reversible Diagonal Grates R-3246-A, Vane Grates R-3246-AL (flow left), Vane Grates R-3246-AR (flow right)



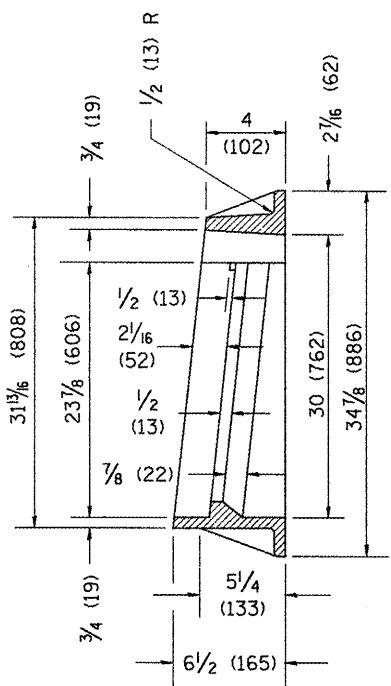
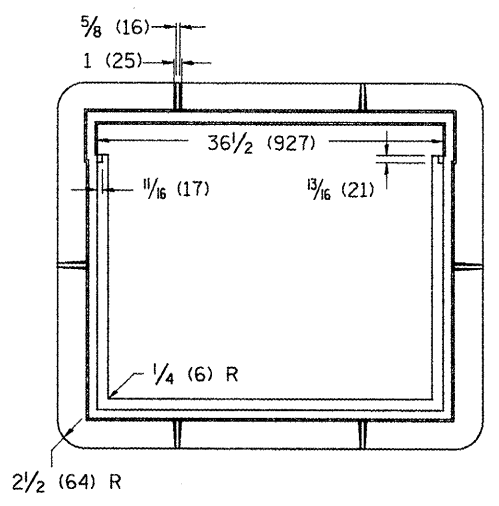
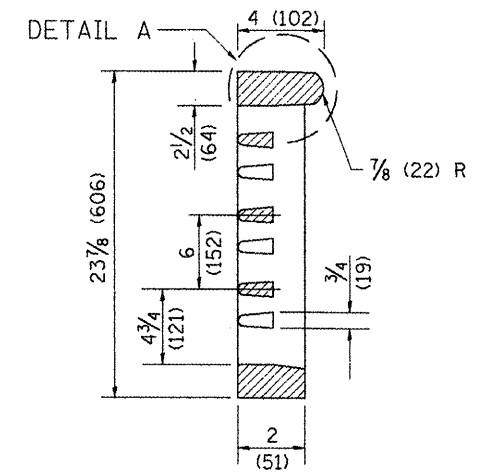
**CAST CURB BOX**  
110 lbs. (50 kg)



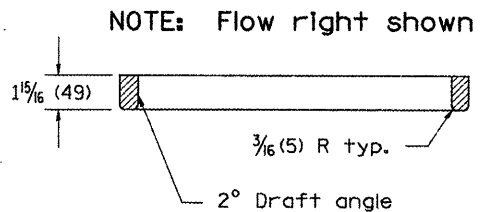
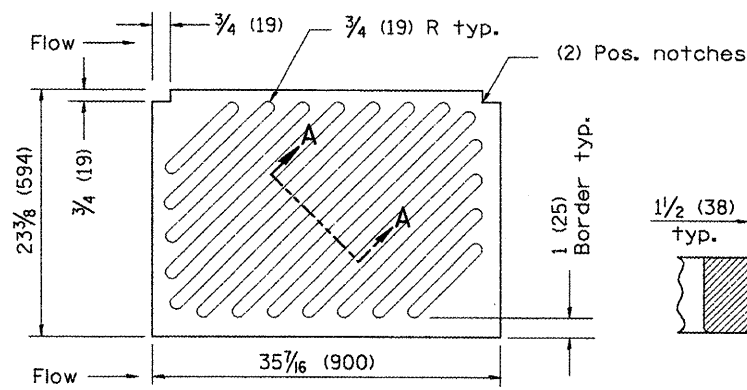
**FLOW LEFT**

**FLOW RIGHT**

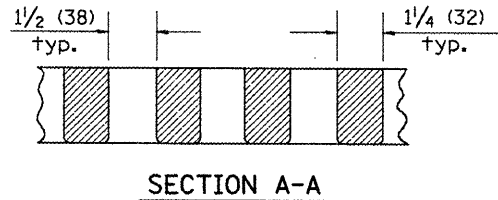
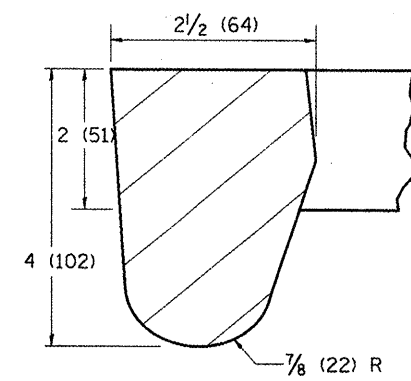
**CAST VANE GRATES**  
(SPECIFY LEFT OR RIGHT FLOW)  
230 lbs. (104 kg)



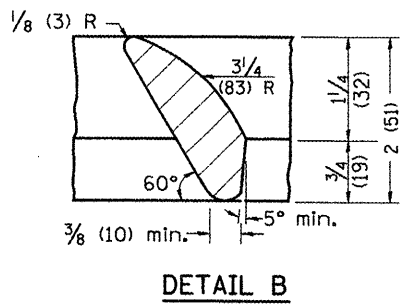
**CAST FRAME**  
271 lbs. (123 kg)



**CAST DIAGONAL GRATE**  
(Reversible for flow)  
217 lbs. (98 kg)



**SECTION A-A**



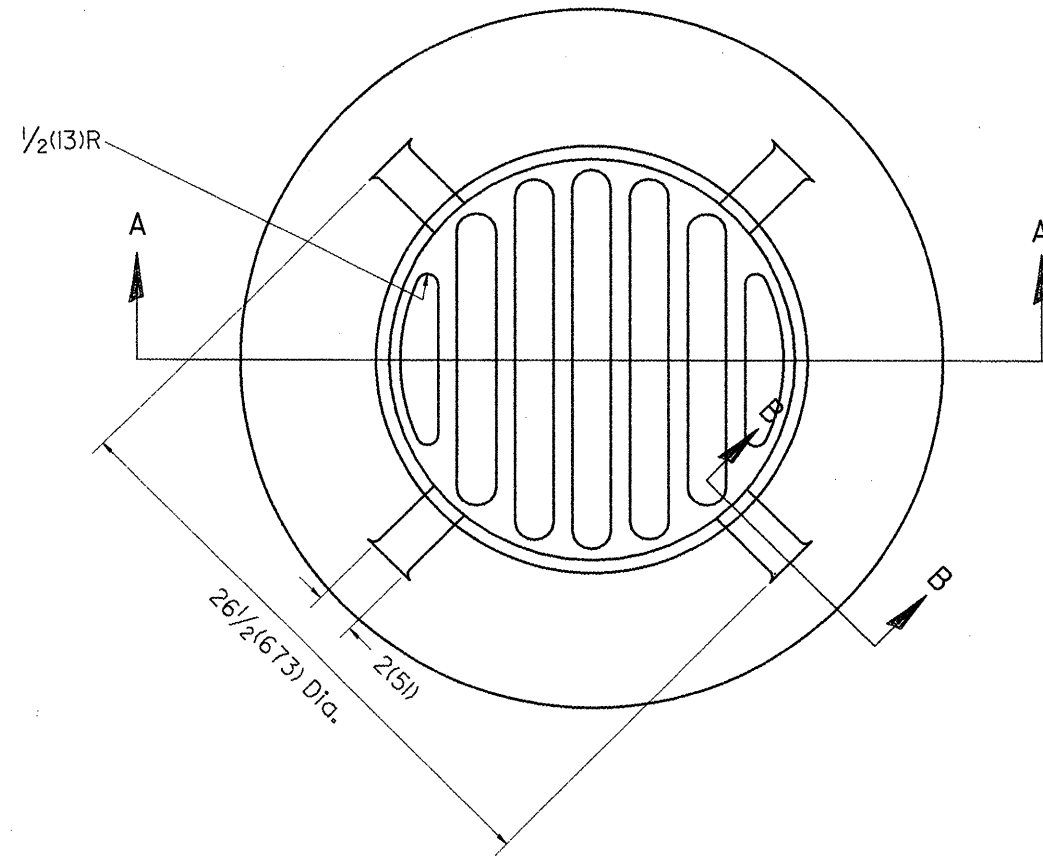
**DETAIL B**

**GENERAL NOTES**

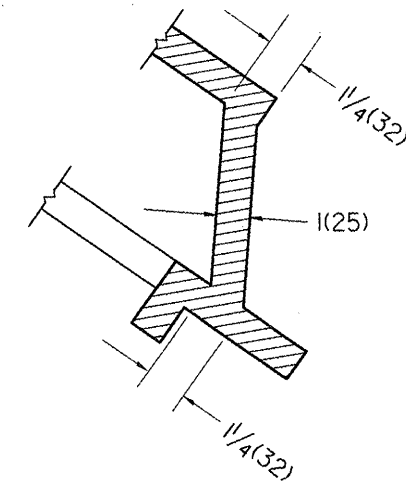
- The frame and grate shown on this drawing are for use with all TYPE G-1 and TYPE G-1, SPECIAL DRAINAGE STRUCTURES. See plans for grate type and flow direction.
- Flow direction: As viewed from street side.
- Material: cast gray iron.

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

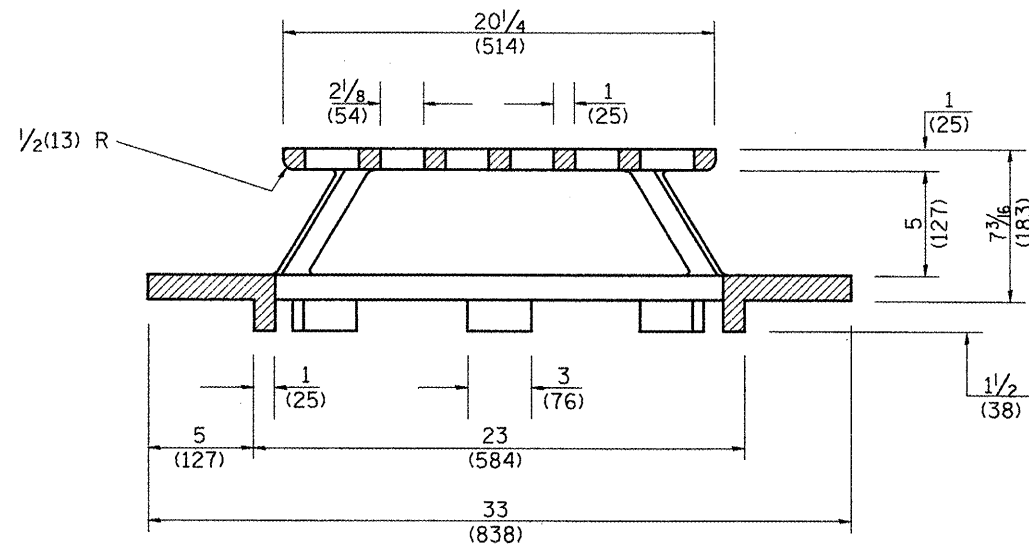
01-01-97	RENUM. B-10.01, NEW REVISION BOX	T.P.																		
10-16-06	REVISED TO 2007 SPEC.	M.A.																		
<b>STATE OF ILLINOIS</b>										<b>FRAME &amp; GRATES FOR TYPE G-1 AND TYPE G-1, SPECIAL DRAINAGE STRUCTURES</b>										
<b>DEPARTMENT OF TRANSPORTATION</b>										<b>NOT TO SCALE</b>										
										CADD STD. 604001-D4										
										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										
										CONTRACT NO.										
										TOTAL SHEETS 220										



PLAN



SECTION B - B



SECTION A - A

GENERAL NOTES

- MATERIAL - Cast Gray Iron  
Weight 209 lbs (95 kg)

DESIGNER NOTE:  
1. INCLUDE DISTRICT SPECIAL PROVISION.

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

01-01-97	RENUM. B-10.02, NEW REVISION BOX	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

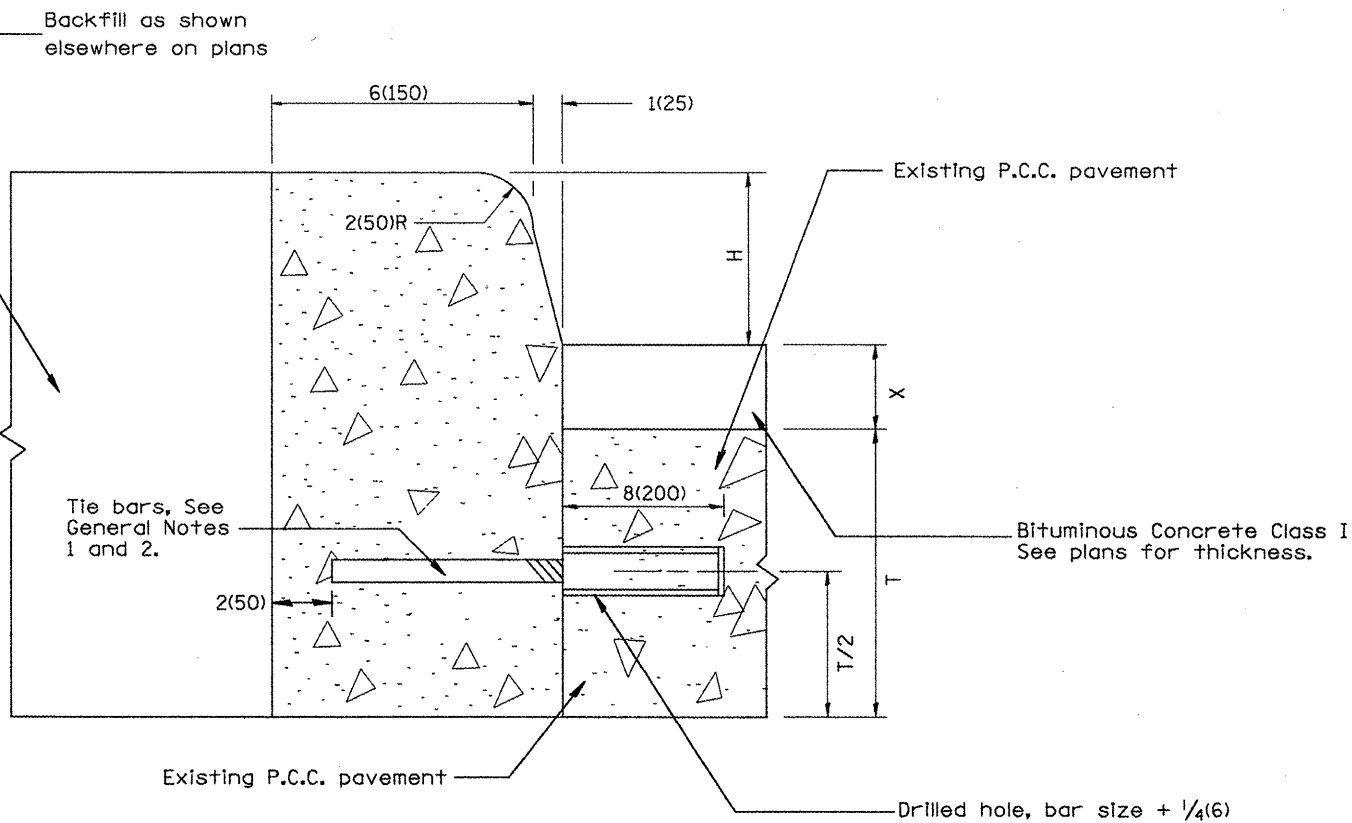
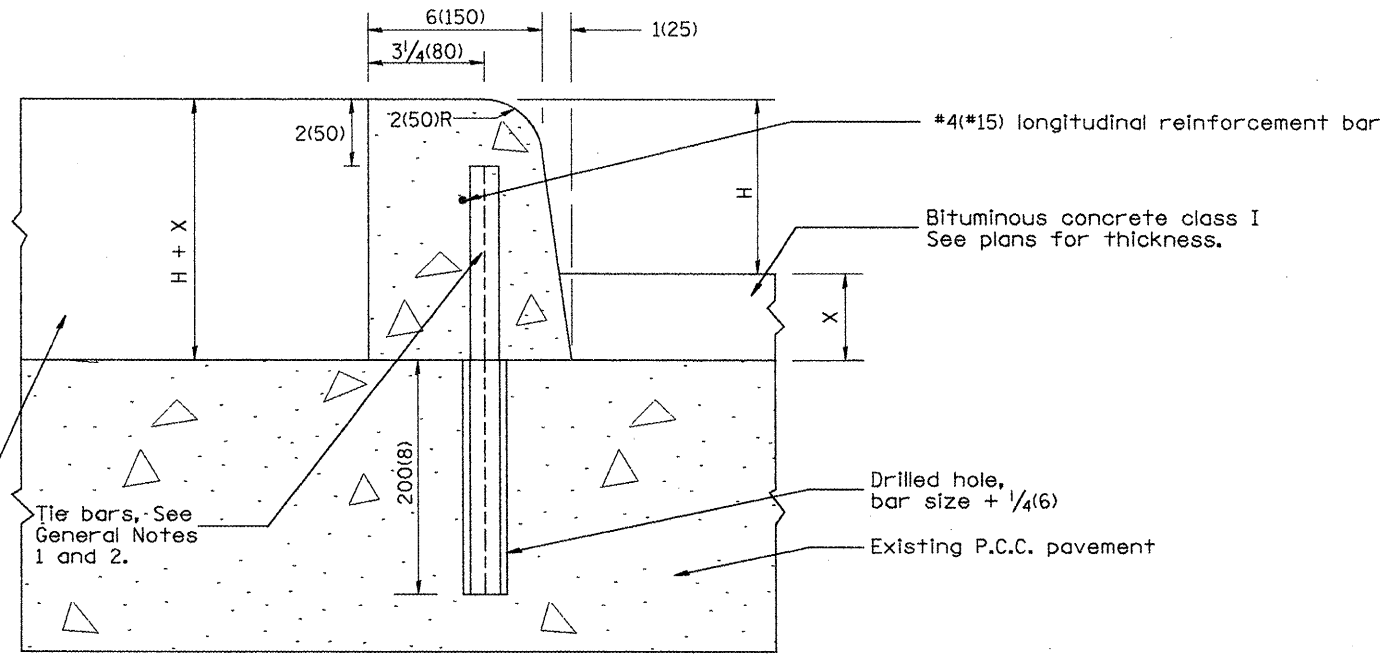
TYPE 37 GRATE

CADD STD. 604301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				221
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL CURB INSTALLATION  
ON TOP OF EXISTING PAVEMENT



TYPICAL CURB INSTALLATION  
AT EDGE OF EXISTING PAVEMENT

LEGEND

- H = curb height: 6(150) or 9(225).  
(see plans for curb height)
- X = thickness of bituminous resurfacing.  
(see plans for thickness)
- T = thickness of existing P.C.C. pavement.  
(see plans for thickness)

GENERAL NOTES:

1. Tie bars shall be #6(#20) at 24(600mm) center in accordance with details for longitudinal construction joint shown in Standard 420001.
2. A minimum clearance of 2(50mm) between the end of the tie bar and the back or top of the curb shall be maintained.
3. Drainage openings 1 sq. ft.(0.1m<sup>2</sup>) in area shall be cut through existing concrete within median along curb at 20'(6.1m) centers and at low points.
4. CONCRETE CURB, TYPE B (MODIFIED) shall be constructed in accordance with the applicable portions of Standards 420001 and 606001, and in accordance with the applicable portions of Article 420.10 and Section 606 of the Standard Specifications except as noted herein.

DESIGNER NOTE: 1. INCLUDE STATE STANDARDS 420001 AND 606001.

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

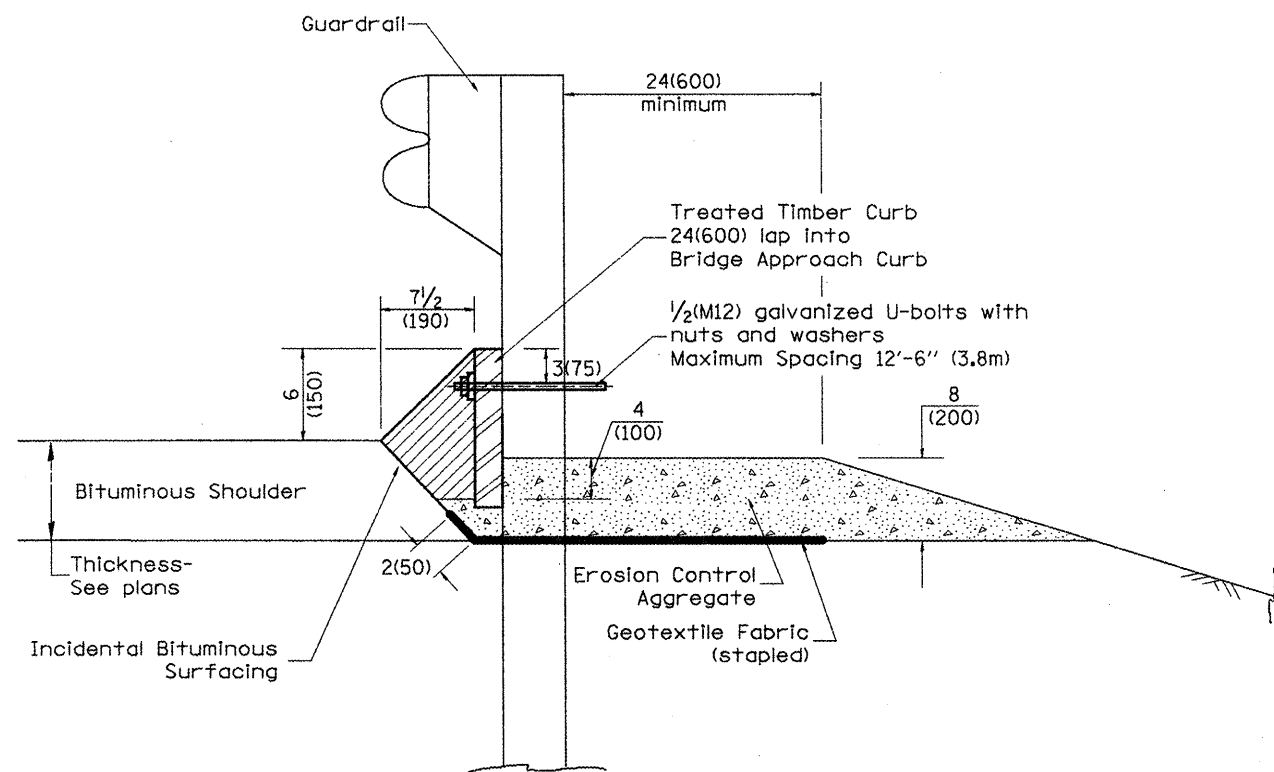
01-01-97	RENUM. A-7.10, NEW REVISION BOX, NEW FORMAT.	T.P.			
03-31-99	REMOVED EPOXY COAT REQUIREMENT	J.A.			
10-16-06	REMOVED EPOXY COAT REQUIREMENT	M.A.			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

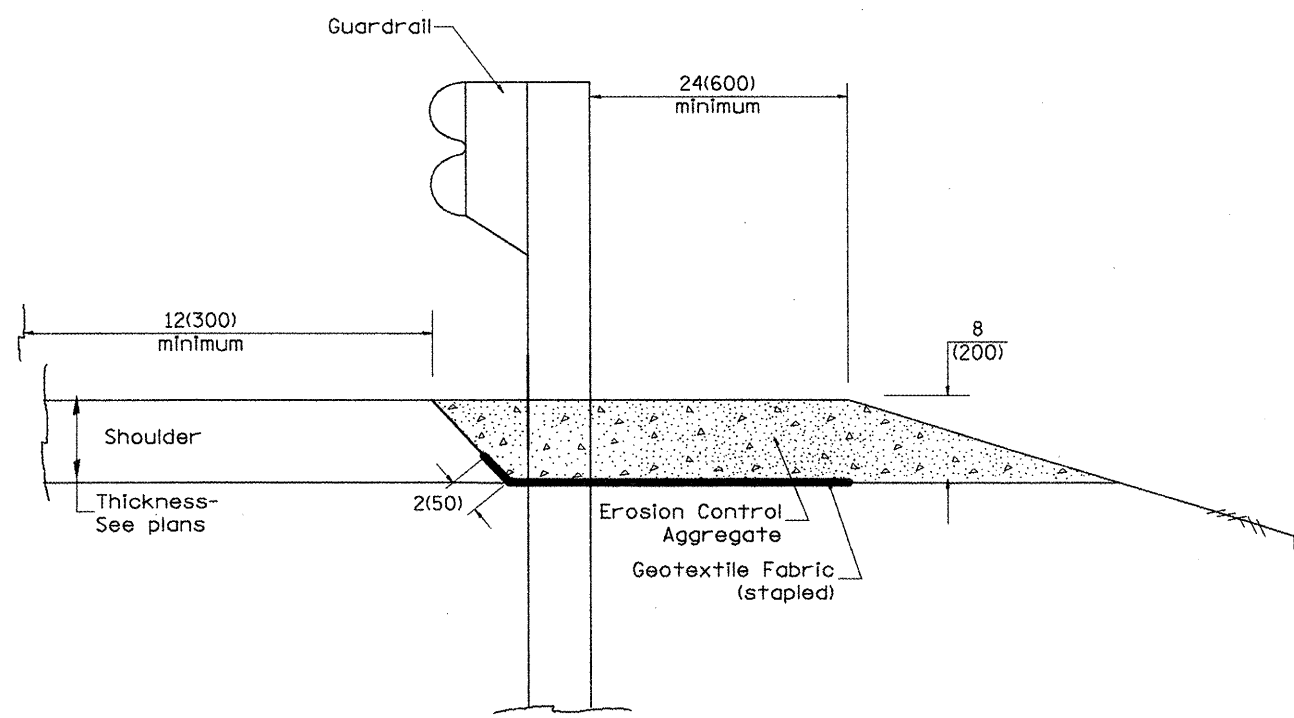
CONCRETE CURB, TYPE B (MODIFIED)  
NOT TO SCALE  
CADD STD. 606001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				222
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

1. Use EROSION CONTROL CURB AT GUARDRAIL INSTALLATIONS where grades are equal to or greater than 1/4 and all limits. Include District Special Provision.  
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1/4. (Include District Special Provision)  
 3. Include State Standards 609001, 609006 or 610001 if applicable.  
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.  
 5. Include District Special Provision - "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

**GENERAL NOTES: EROSION CONTROL CURB**

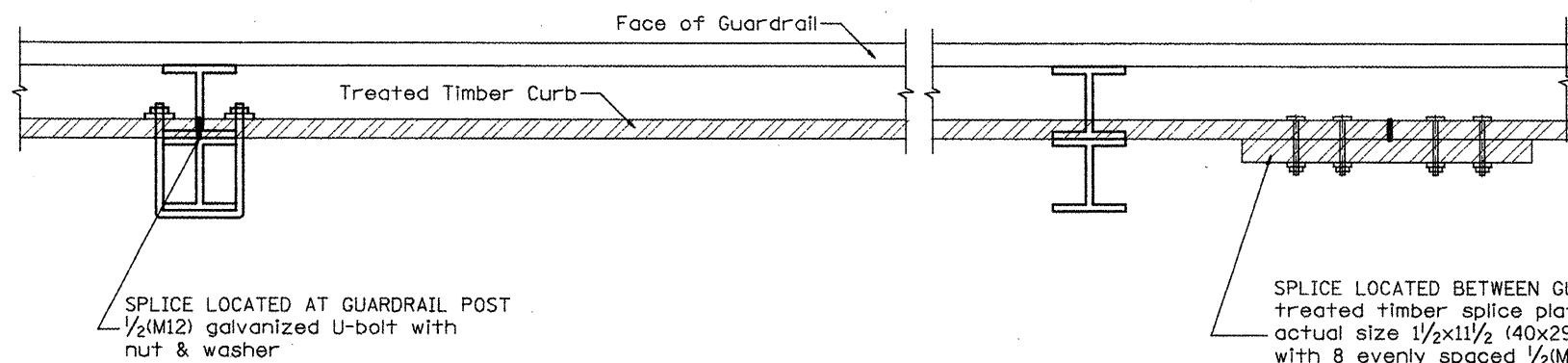
1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m<sup>3</sup>)

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

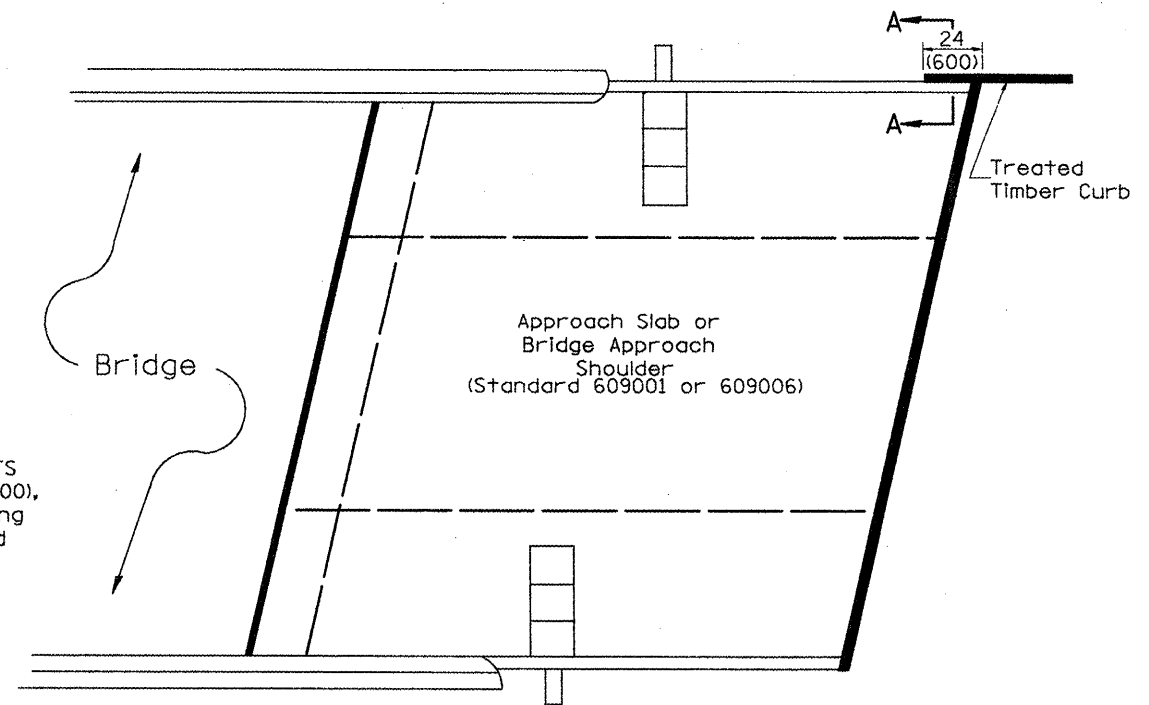
1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

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

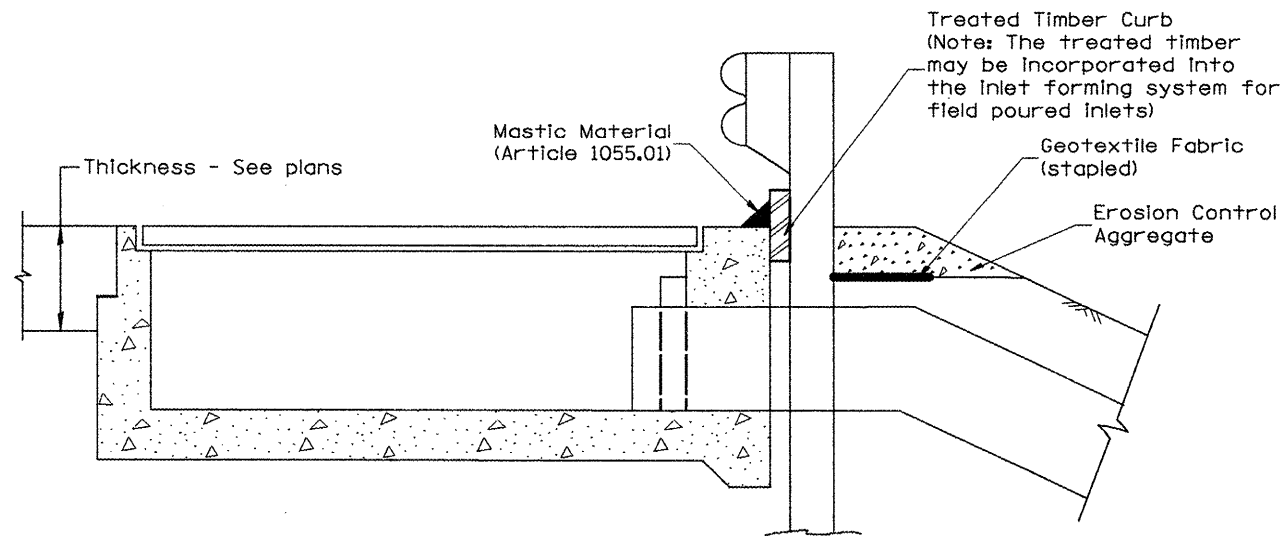
01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.			<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.										223
11-03-00	CORRECTION TO NOTES	M.A.										
10-16-06	REVISED TO 2007 SPEC.	M.A.										
NOT TO SCALE						SHT. 1 OF 2 CADD STD. 630101-D4	CONTRACT NO.					
											FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



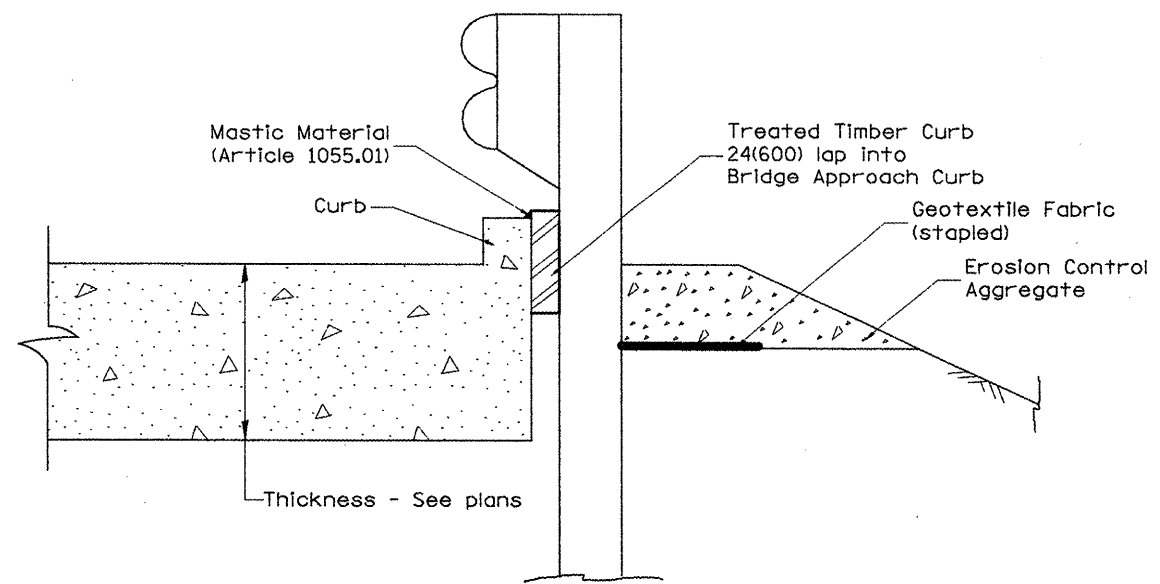
**DETAIL A**  
(Typical Treated Timber Splices)



**PLAN VIEW**  
**APPROACH SLAB OR BRIDGE APPROACH SHOULDER**  
(STANDARD 609001 or 609006)



**TYPICAL SECTION WITH EROSION CONTROL CURB**  
**AT INLETS TYPE E & F (STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH EROSION CONTROL CURB**  
**AT BRIDGE APPROACH CURB**  
(STANDARD 609001 OR 609006)

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

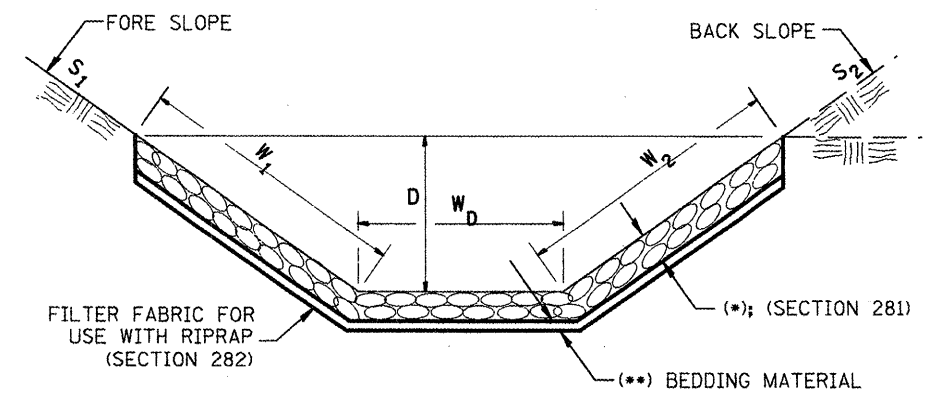
NOT TO SCALE

SHT. 2 OF 2  
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				224
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Designer NOTES:  
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.  
 2. (\*) Designer to specify pay item including material, quality, and gradation.  
 3. (\*\*) Designer to specify thickness of bedding material.  
 4. Include District Special Provision if needed.

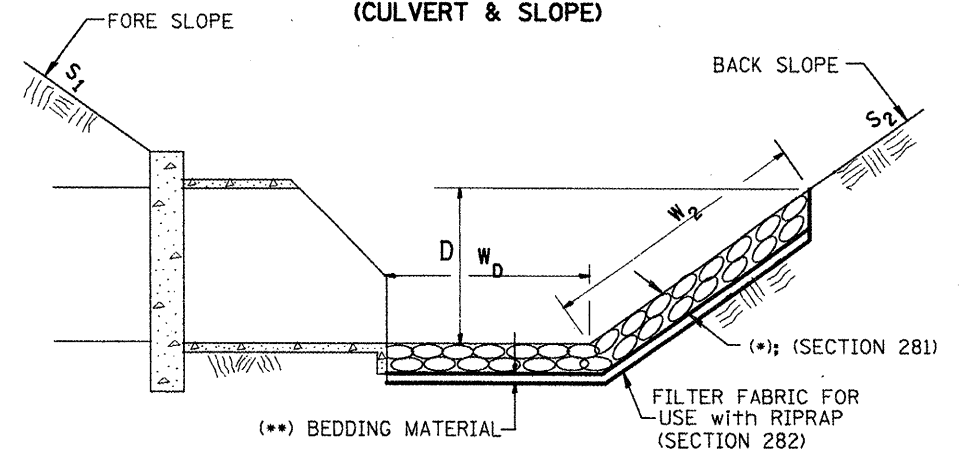
**CASE 1  
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_1 + W_2 + W_D$

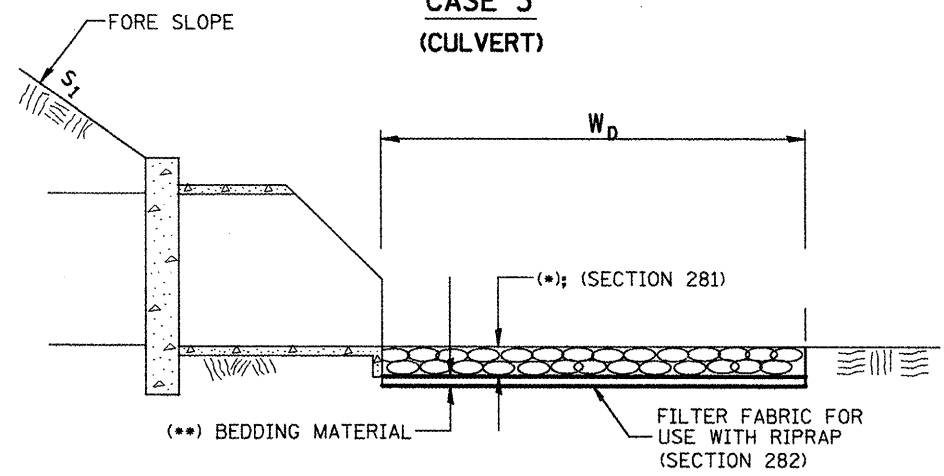
**CASE 2  
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_2 + W_D$

**CASE 3  
(CULVERT)**



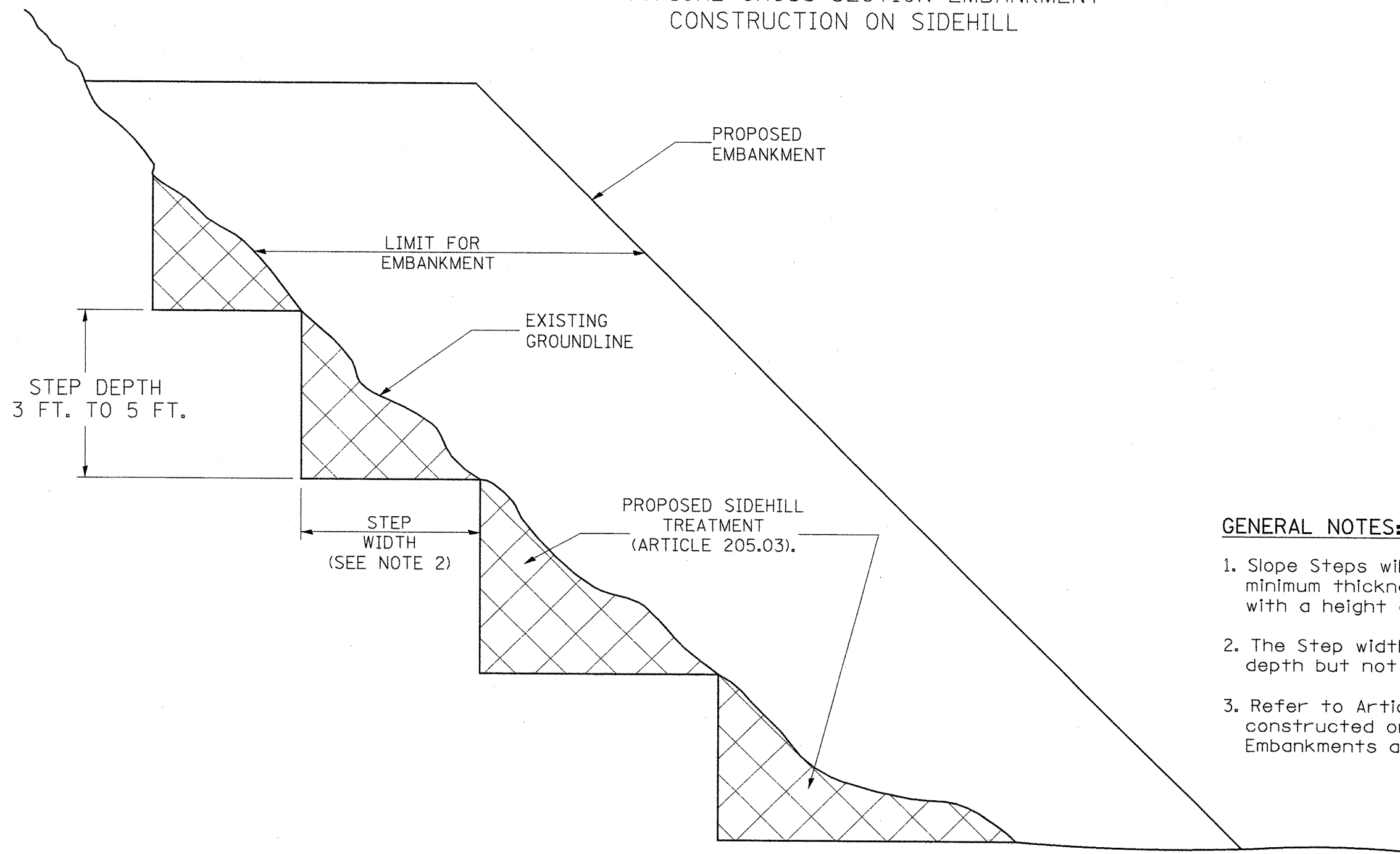
(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_D$

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).  
 All dimensions are in inches (millimeters) unless otherwise noted.

# SLOPE STEPS DETAIL

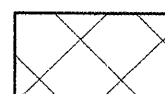
## TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



### GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

### REPLACEMENT MATERIAL:



STANDARD EMBANKMENT  
(IN ACCORDANCE WITH  
205 OF THE STANDARD SPECIFACATION).

### DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.
	BOX, REVISED GENERAL NOTES.	
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

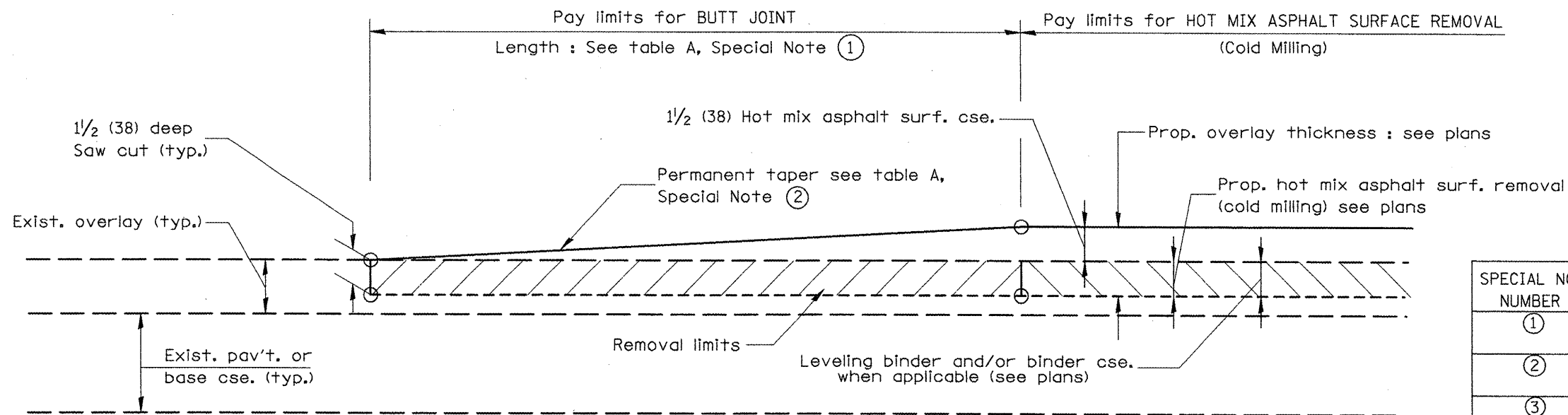
NOT TO SCALE

**SLOPE STEPS DETAIL**

CADD STD. 205001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				226
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:  
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).  
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



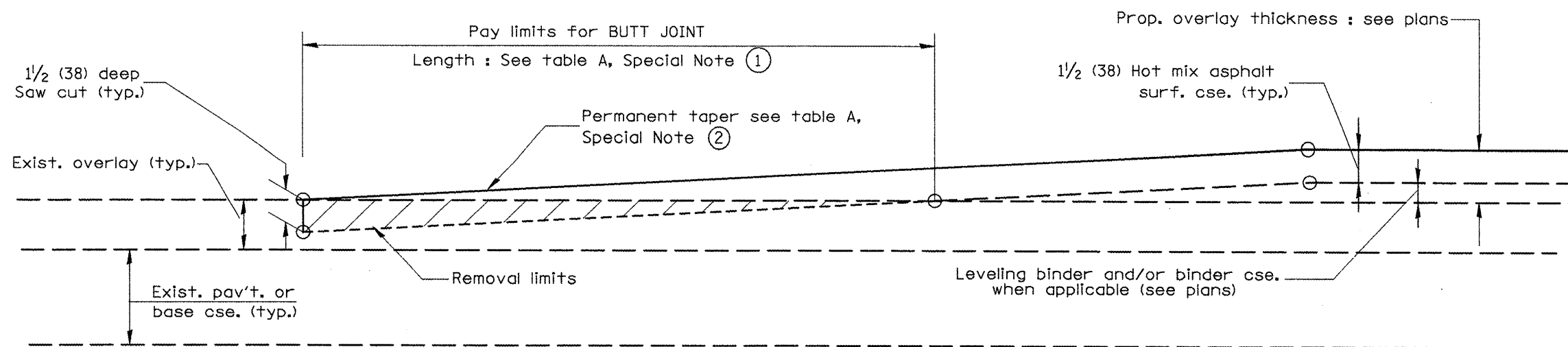
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A**  
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

**GENERAL NOTES**

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

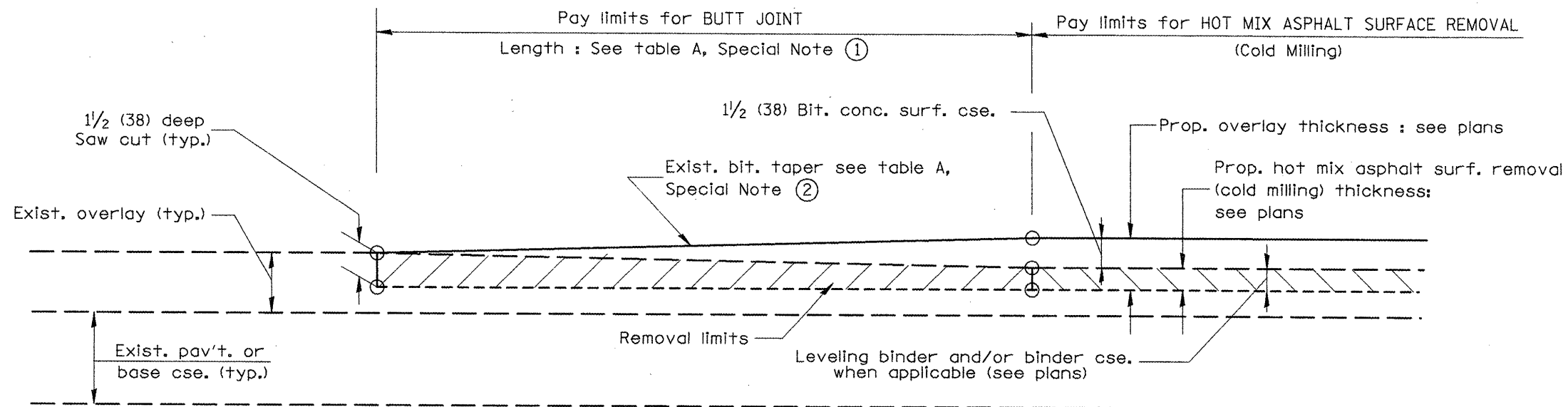
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS**

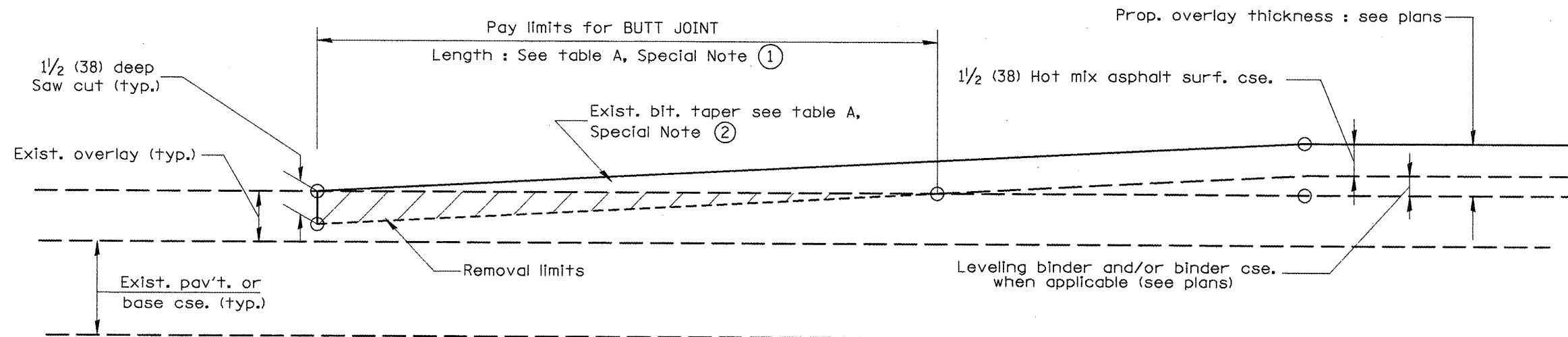
NOT TO SCALE

SHT. 1 OF 3  
CADD STD. 406101-D4

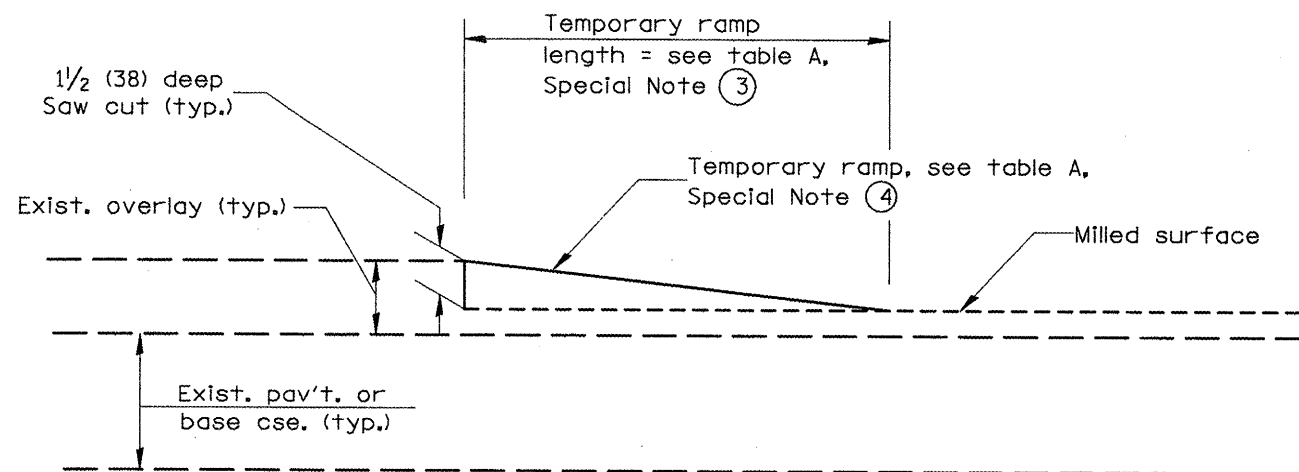
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				227
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO.	



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**DETAIL TEMPORARY RAMP**

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

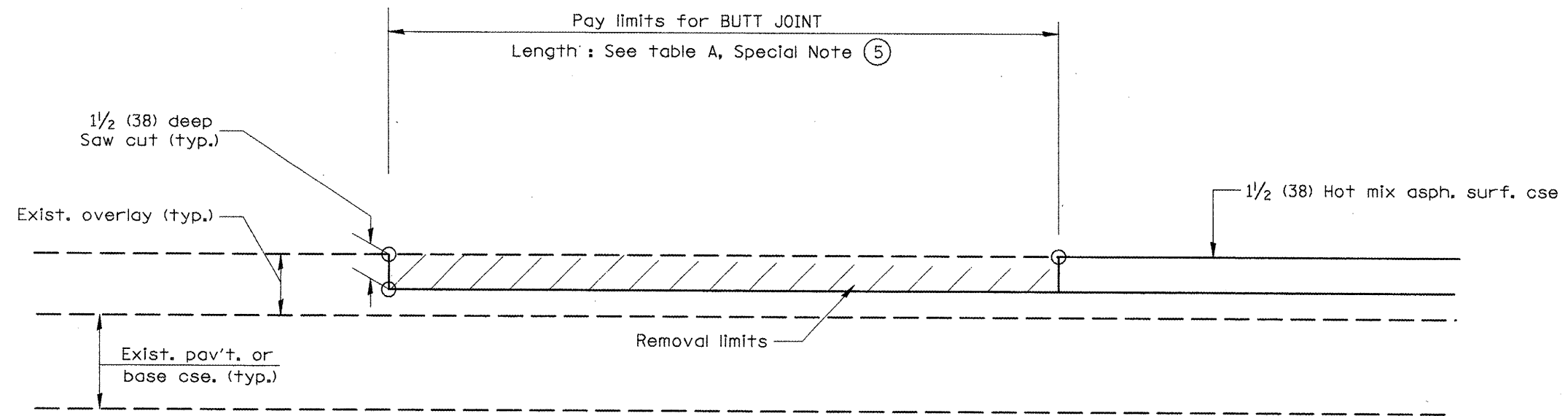
BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				228
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO.	





**CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**

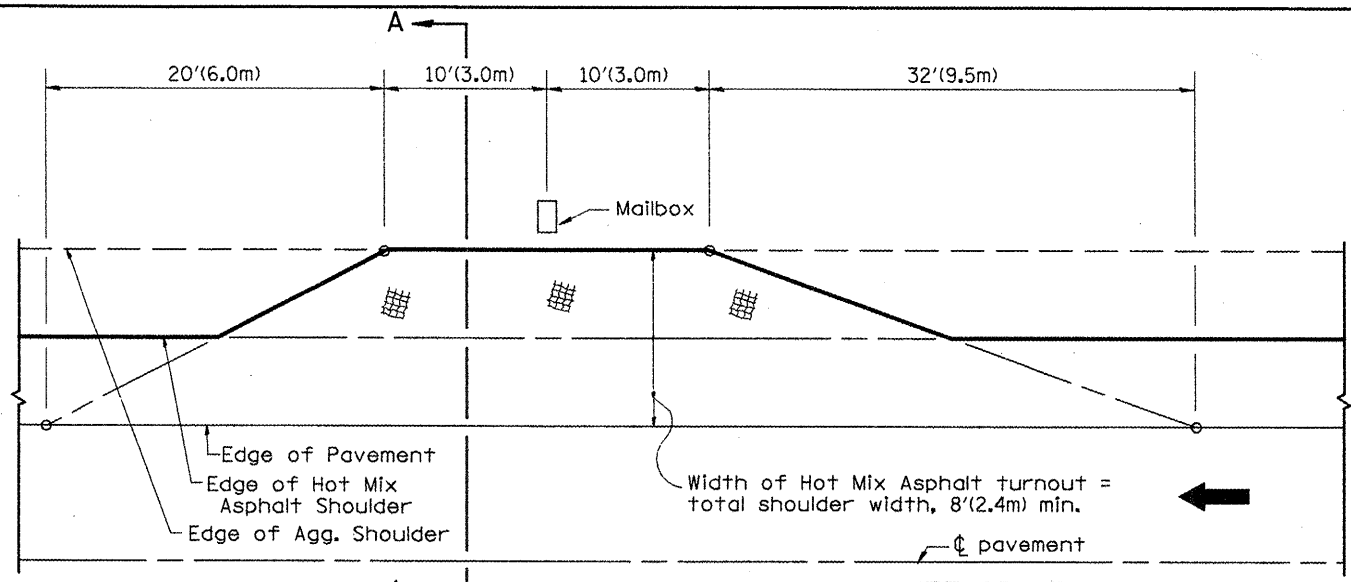
All dimensions are in inches (millimeters) unless otherwise noted.


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

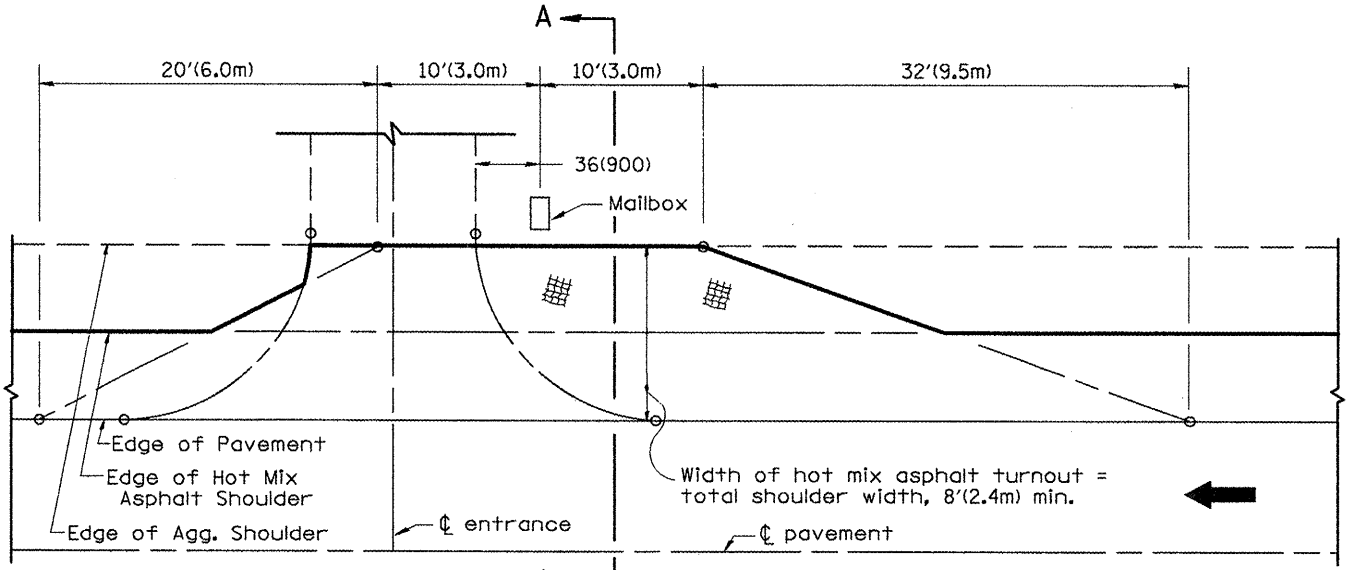
**BUTT JOINTS**  
SHT. 3 OF 3  
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				229
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

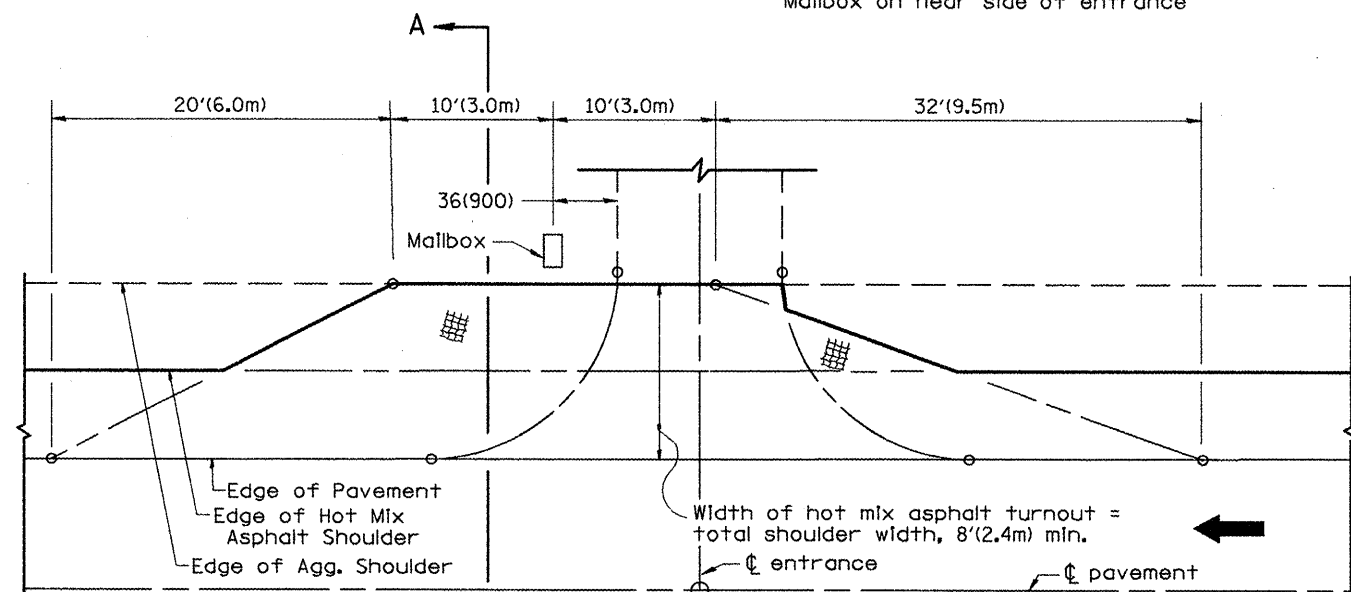
DESIGNER NOTES:  
 1. THIS DRAWING REPLACES STATE STANDARD 406201  
 2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL



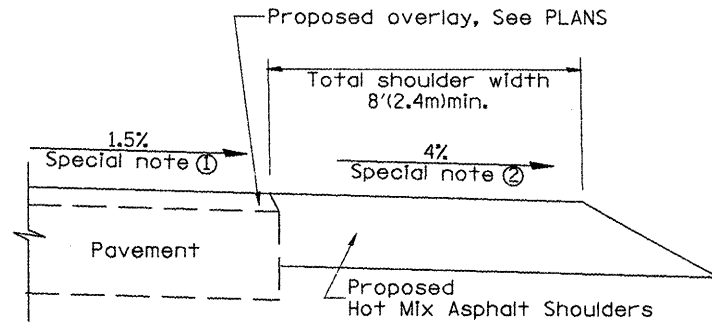
**METHOD "T"**  
 Typical Application



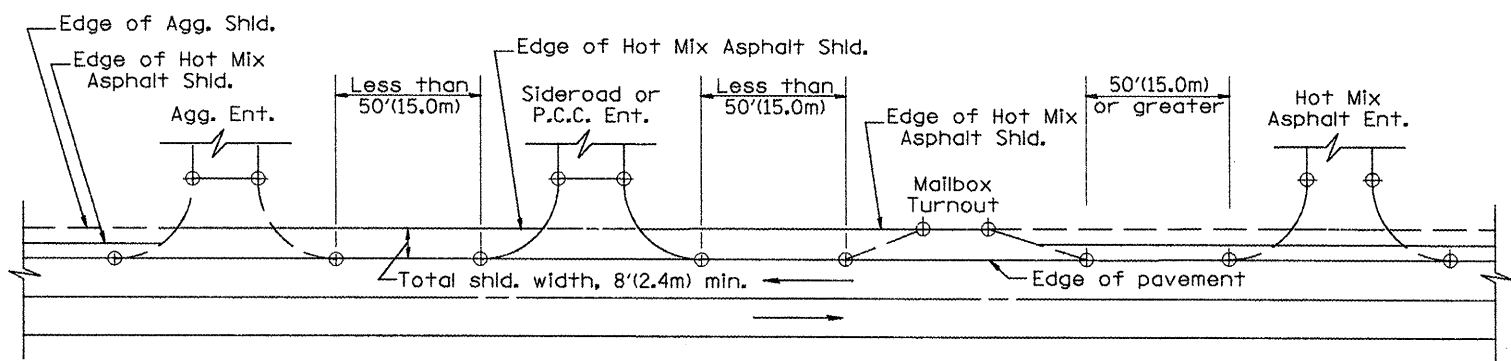
**METHOD "N"**  
 Mailbox on near side of entrance



**METHOD "F"**  
 Mailbox on far side of entrance



**SECTION A-A**



**DETAIL A**

**SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS**

**GENERAL NOTES**

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 6(150) to 12(300) and the post a minimum of 24(600) from the edge of the turnout surfacing.

**SPECIAL NOTES**

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6'(1.8m) and wider and 12% for shoulders 4'(1.2m) and less. Where 12(300) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.
07-01-97	REVISE DESIGNER NOTES	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

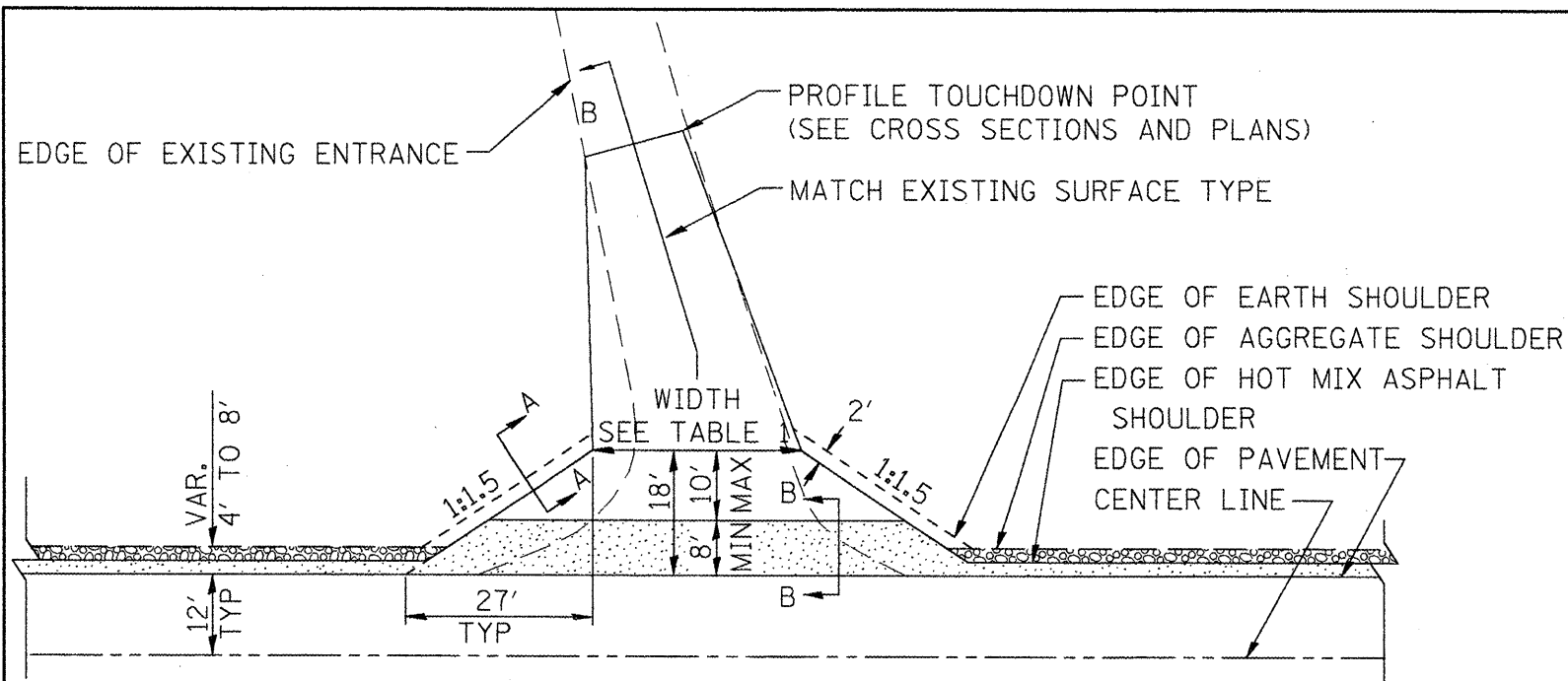
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAILBOX TURNOUTS FOR "3R" PROJECTS**

NOT TO SCALE

CADD STD. 406201-D4

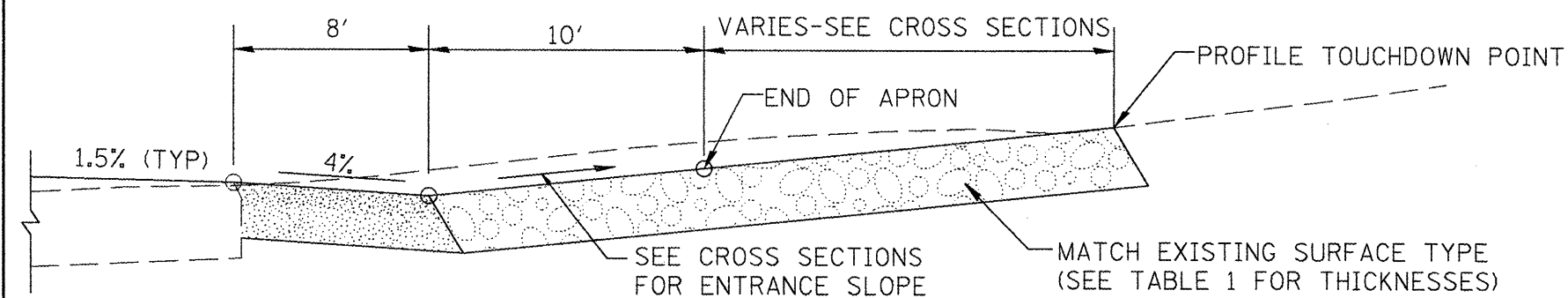
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				230
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO.				



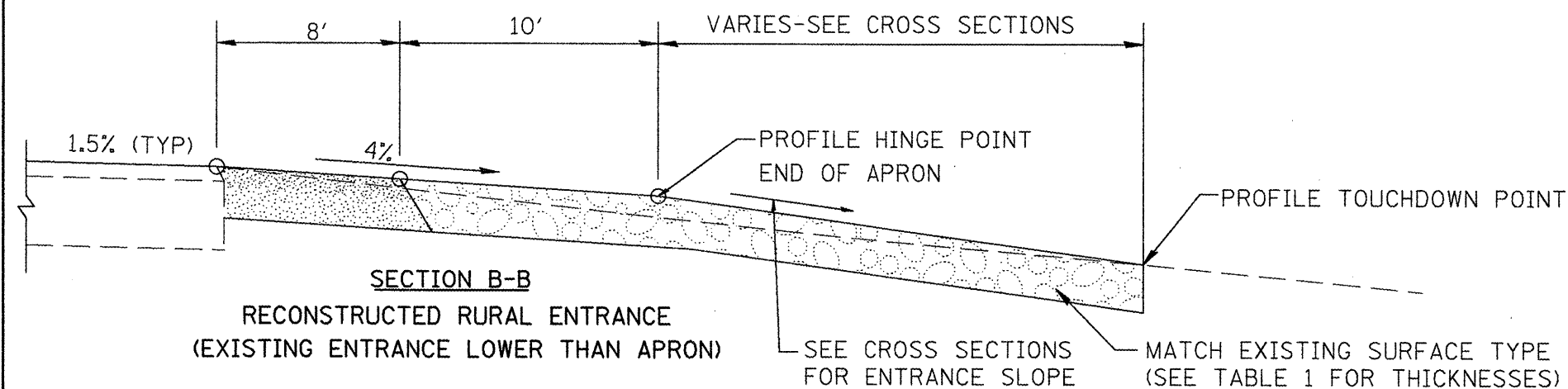
HOT MIX ASPHALT SHOULDER, 8"  
 AGGREGATE SHOULDER, TYPE B, 6"

**PLAN**

**COMMERCIAL / FARM-RELATED ENTRANCE**

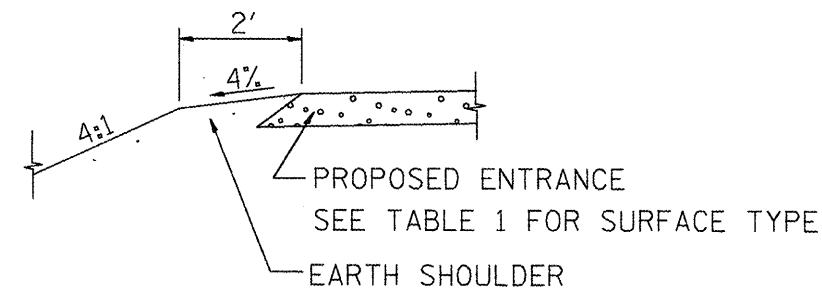


**SECTION B-B**  
 RECONSTRUCTED RURAL ENTRANCE  
 (EXISTING ENTRANCE HIGHER THAN APRON)



**SECTION B-B**  
 RECONSTRUCTED RURAL ENTRANCE  
 (EXISTING ENTRANCE LOWER THAN APRON)

TABLE 1							
RURAL ENTRANCE DESIGN							
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL		
					1-WAY OPERATION	2-WAY OPERATION	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.	24'(7.2m) Min. 35'(10.7m) Max.
FLARE	1:1.5						
MAX. GRADE (G)	12%		12%		10%		
SURFACE TYPE							
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		—		8"		
AGGREGATE SURFACE COURSE	6"		8"		8"		
PCC DRIVEWAY PAVEMENT	6"		—		7"		



**SECTION A-A**  
 SHOULDER TREATMENT FOR RURAL ENTRANCES

**GENERAL NOTES**

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

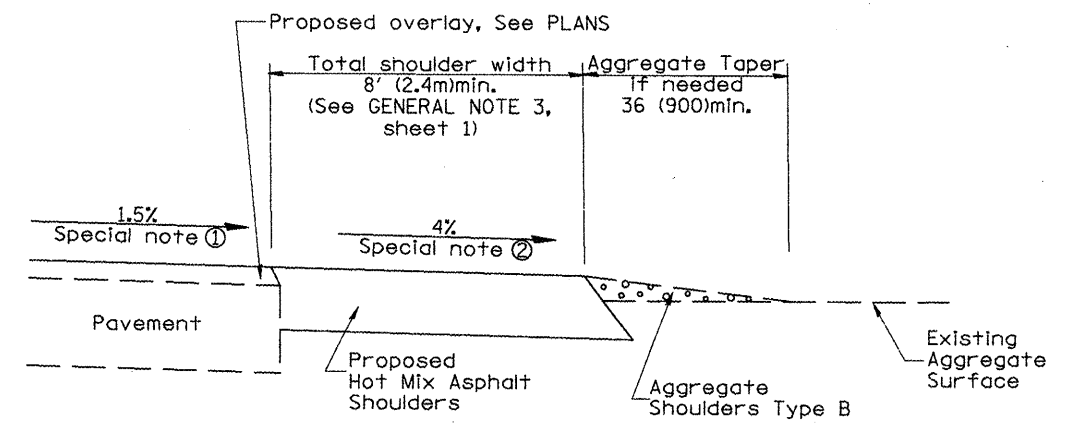
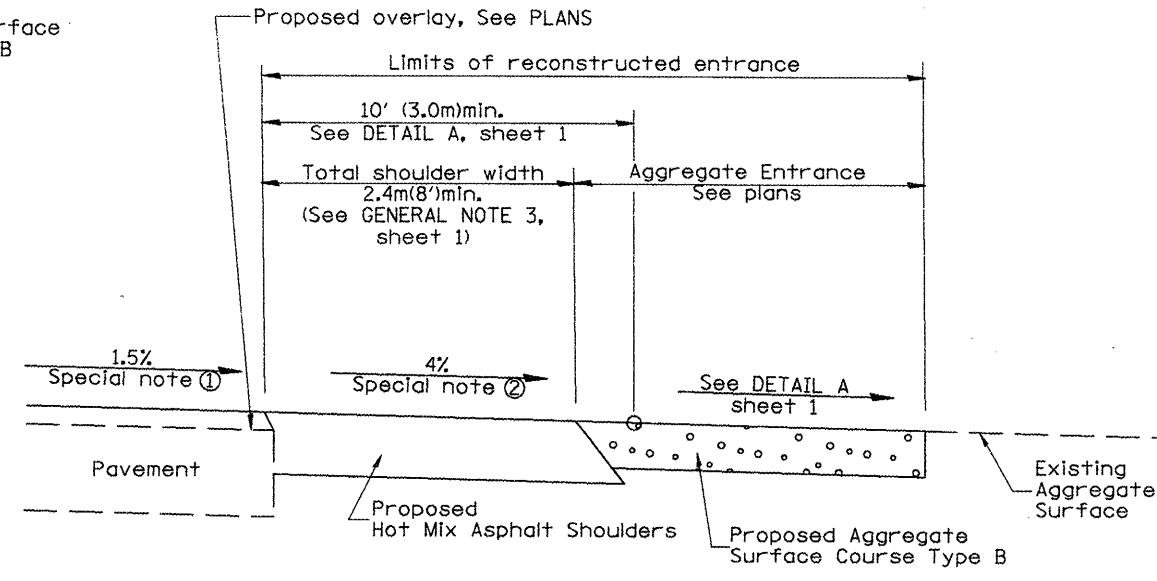
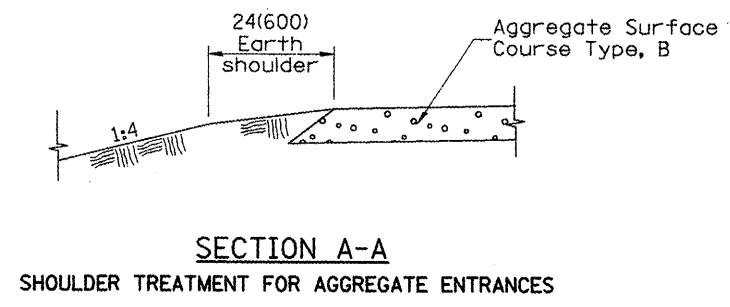
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RURAL ENTRANCES FOR "3R" PROJECTS**

NOT TO SCALE

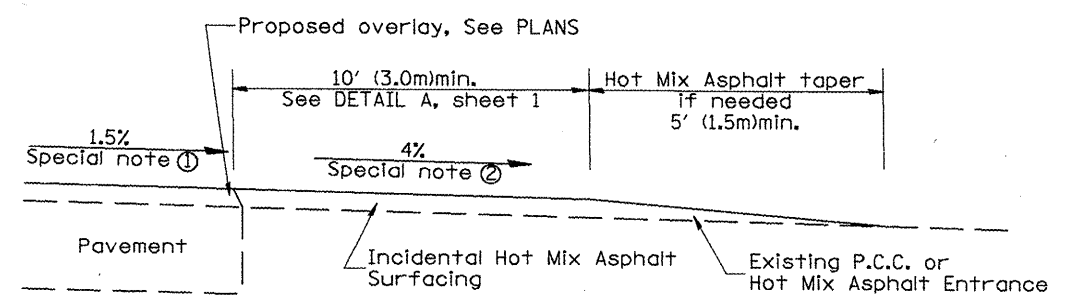
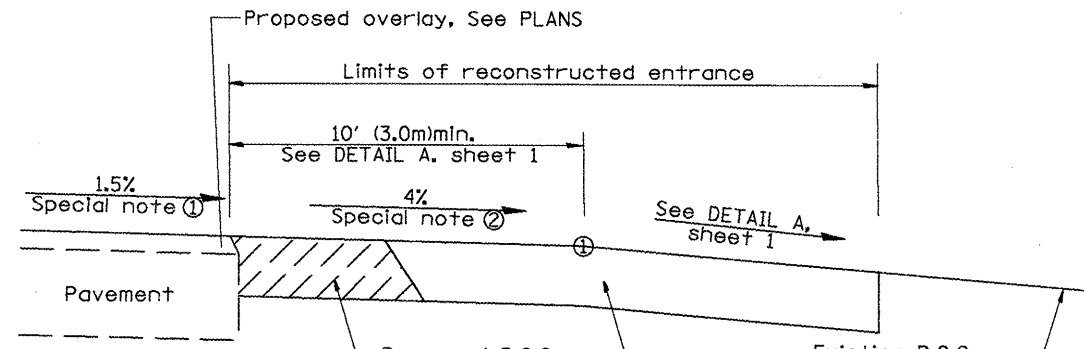
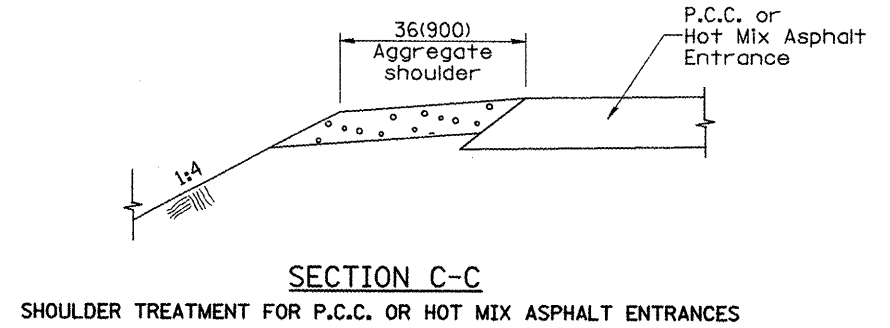
SHT. 1 OF 2  
 CADD STD. 406301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				231
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO.	



**SECTION B-B**  
RECONSTRUCTED AGGREGATE ENTRANCE

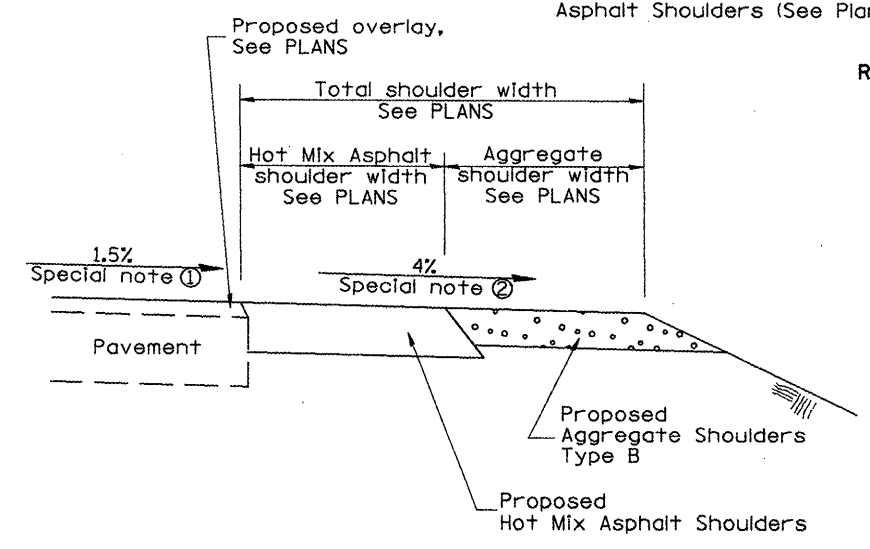
**SECTION B-B**  
EXISTING AGGREGATE ENTRANCE



Hot Mix Asphalt Entrance - Construct this portion of entrance as Hot Mix Asphalt Shoulders (See Plan)  
Proposed P.C.C. or Hot Mix Asphalt Entrance  
Existing P.C.C. or Hot Mix Asphalt Entrance

**SECTION D-D**  
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE

**SECTION D-D**  
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION E-E**  
MAINLINE SHOULDER TREATMENT

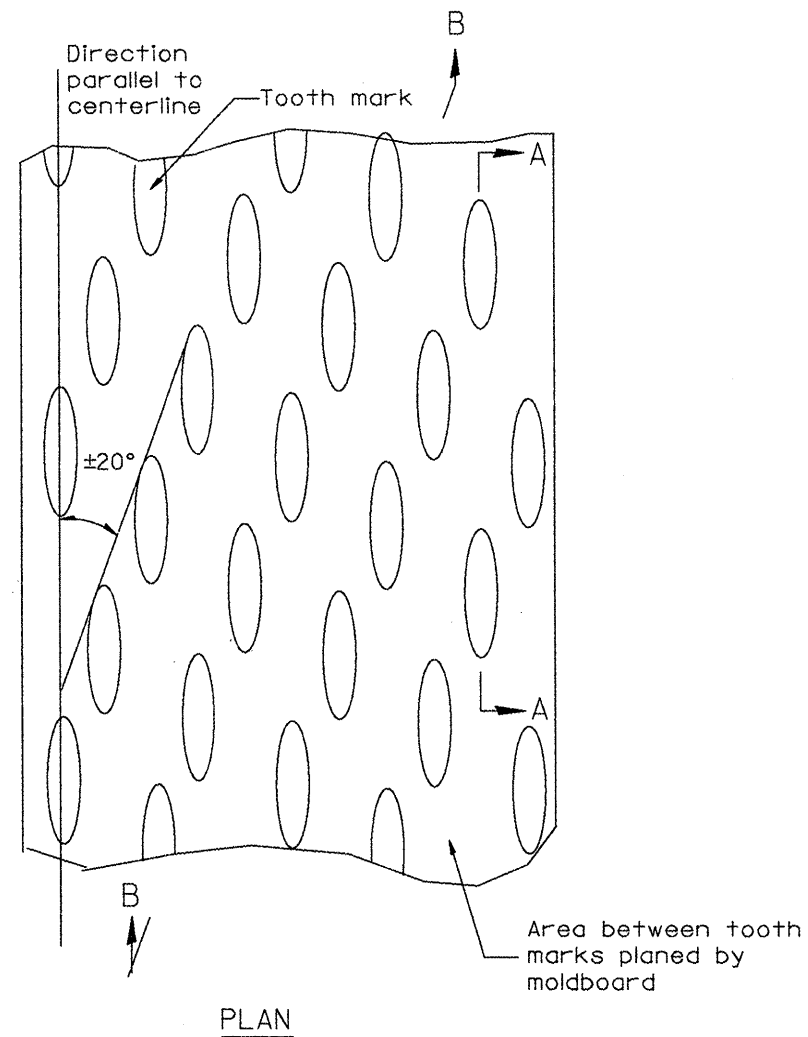
**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

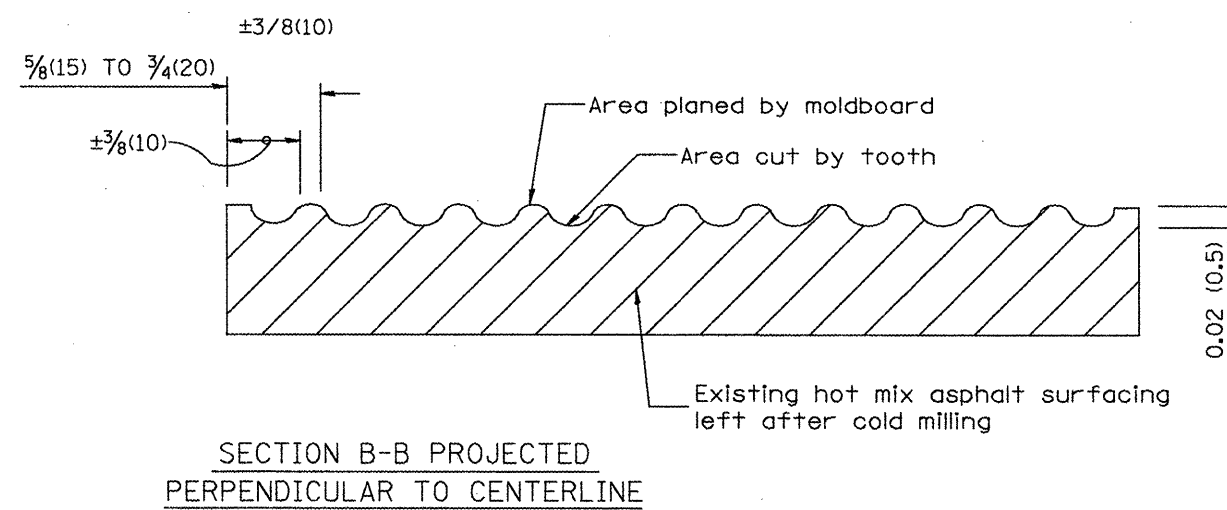
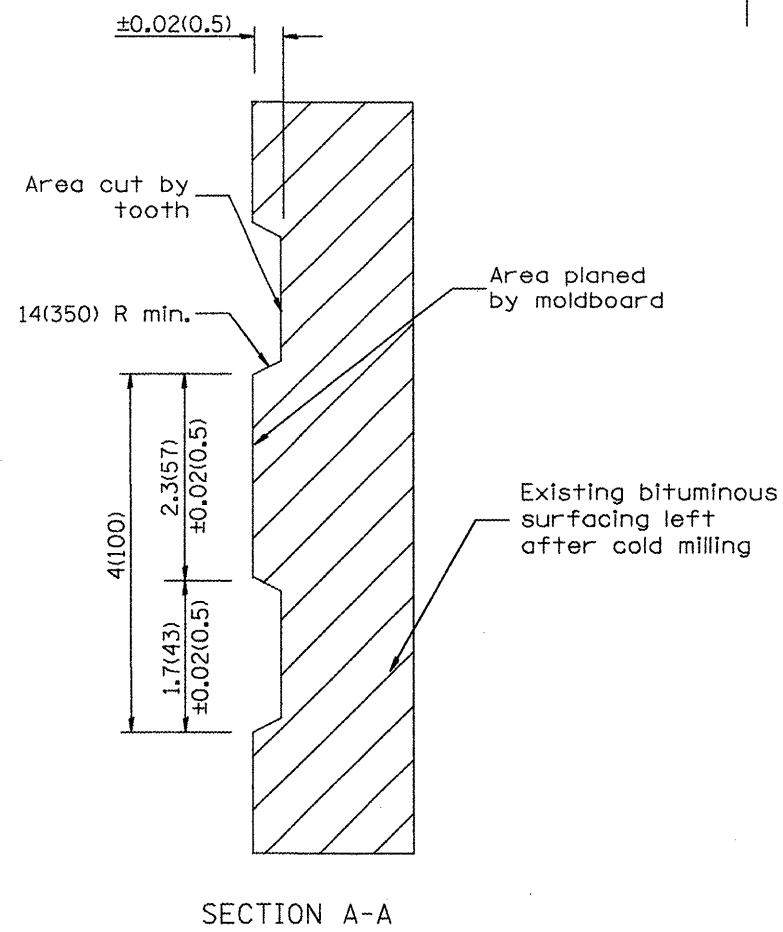
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				232
CONTRACT NO.				

DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.



General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



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

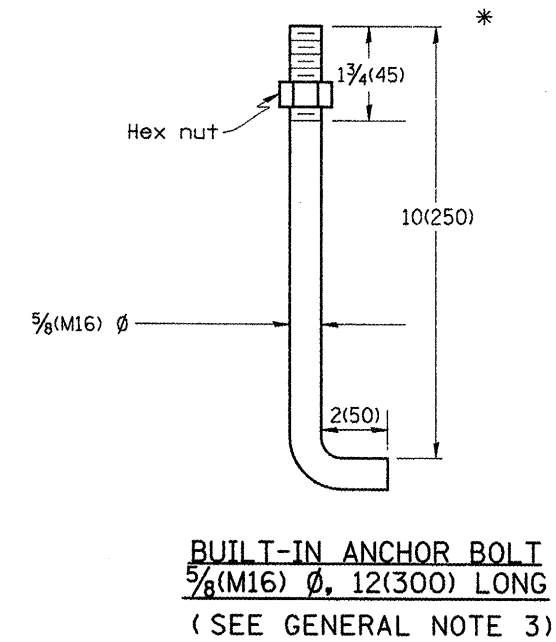
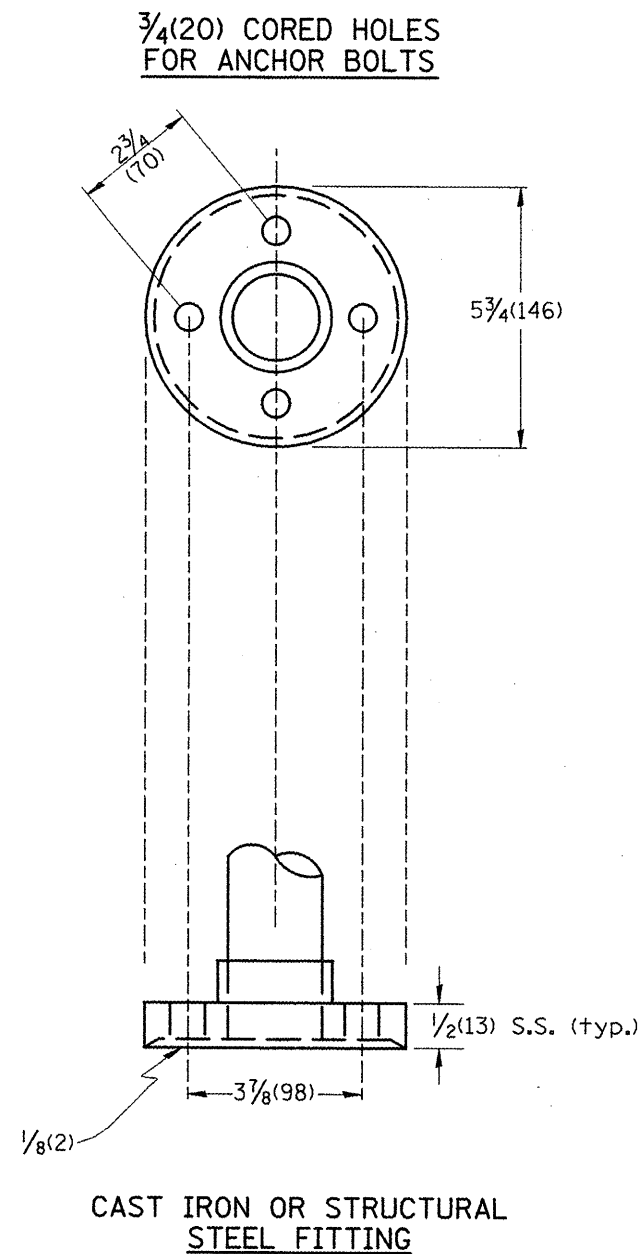
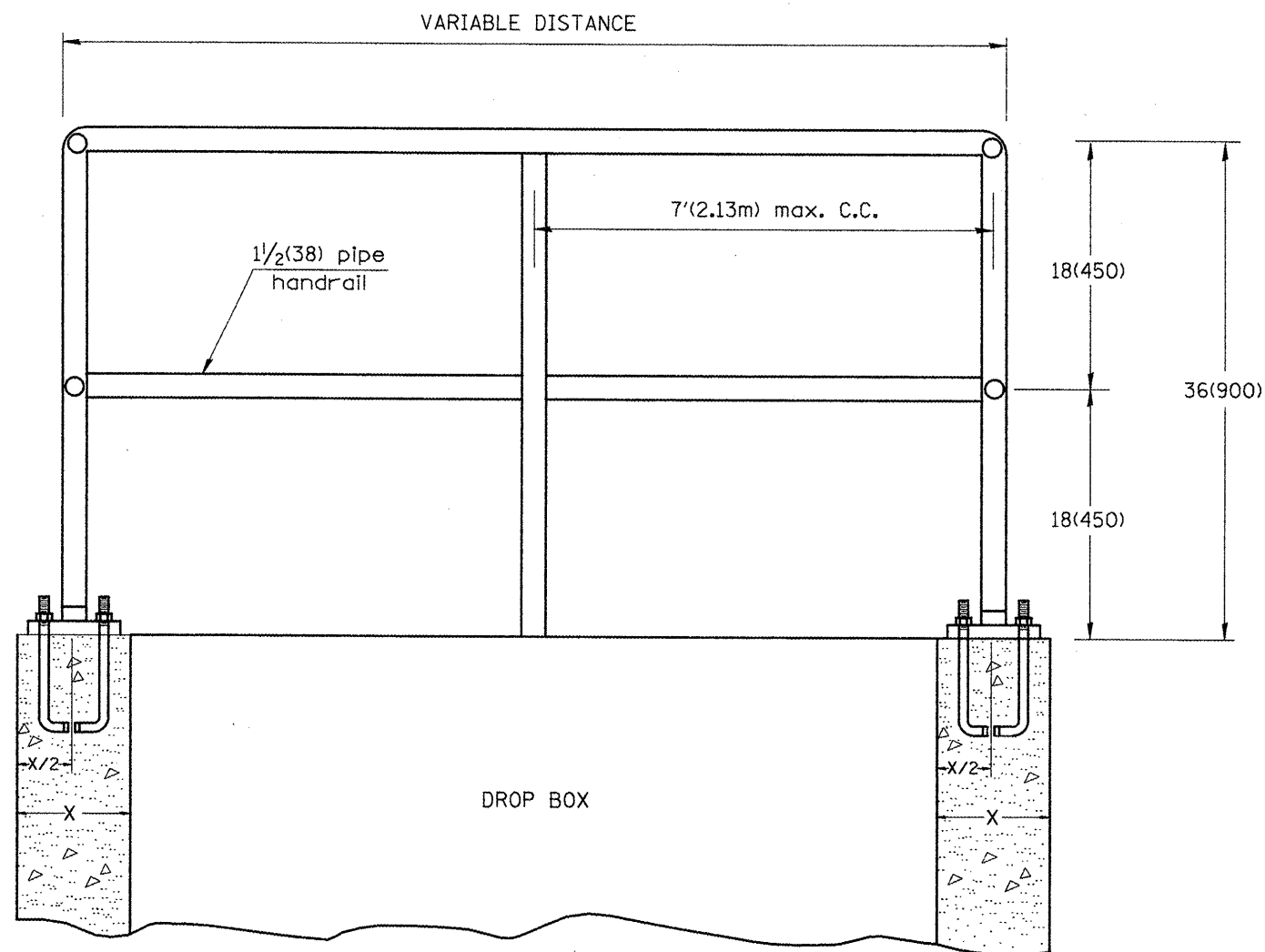
01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				233
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CADD STD. 440001-D4



**GENERAL NOTES:**

- Article 509.04 of the Standard Specifications shall apply.
- Connection of railing to posts shall be made by continuous welding or with using standard pipe fitting.
- An equivalent epoxy anchor stud can be used in place of anchor shown. Anchor bolt holes shall be 3/4(20) in diameter and 5(125) deep. They shall be predrilled with an electric hammer drill to a depth of 4(100) prior to use of a pneumatic drill for the remaining 4(100). A two component encapsulated epoxy such as "Parabond" or an equivalent shall be used. Installation shall be according to Manufacturer's recommendations.
- The pipe handrail shall be galvanized by the hot dip process.

All dimensions are in Inches (millimeters) unless otherwise noted.

01-01-97	RENUM. B-11.01, METRICS, NEW REVISION BOX, REVISED TITLE BOX, REVISED NOTES	T.P.		
10-16-06	REVISED TO 2007 SPEC.	M.A.		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF PIPE HANDRAIL FASTENING

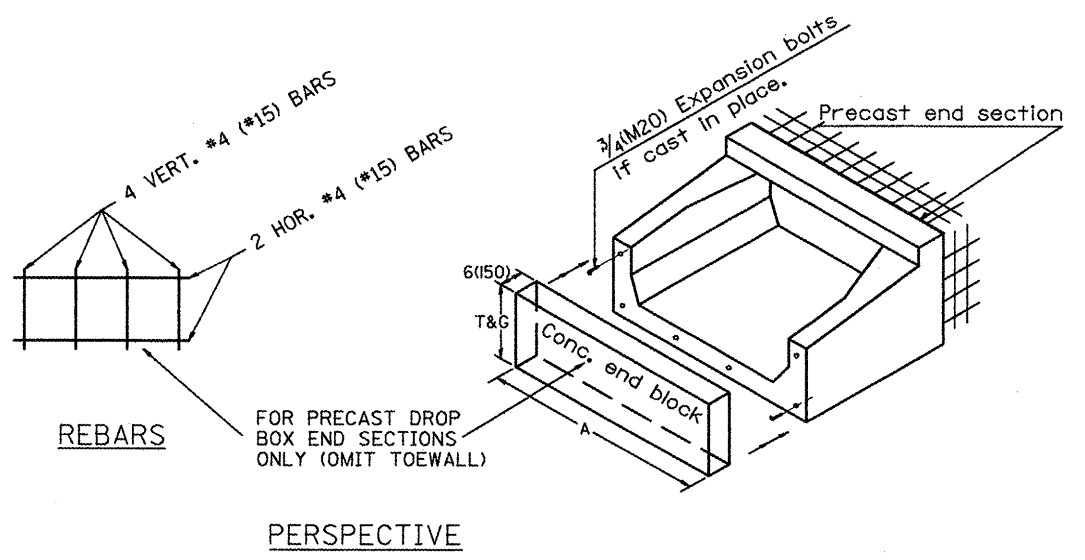
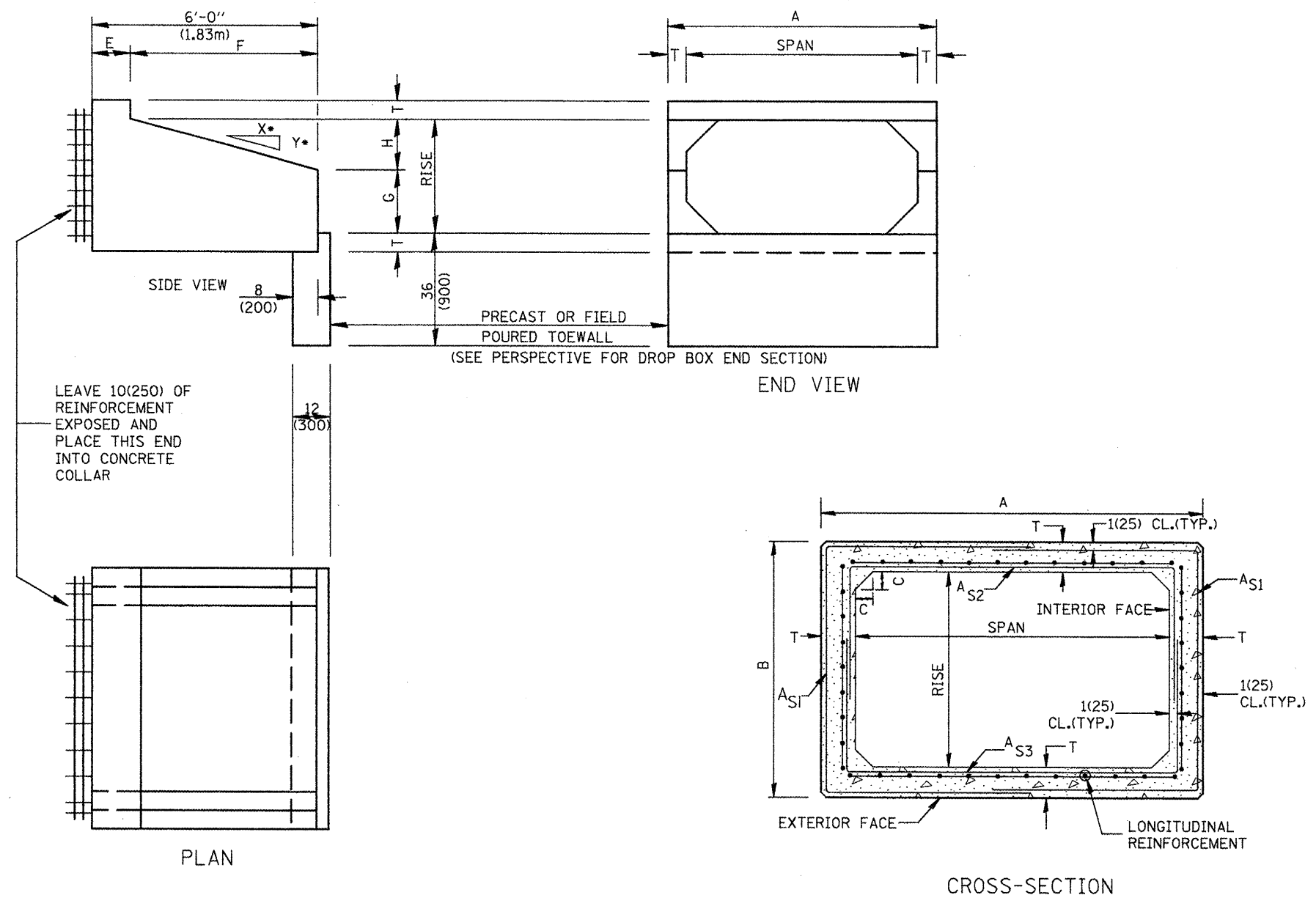
NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				239
CONTRACT NO.				

CADD STD. 510001-D4

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

DESIGNER NOTES:  
 1. INSERT DISTRICT SPECIAL PROVISION.  
 2. TO BE USED IN CONJUNCTION WITH CONCRETE COLLAR.



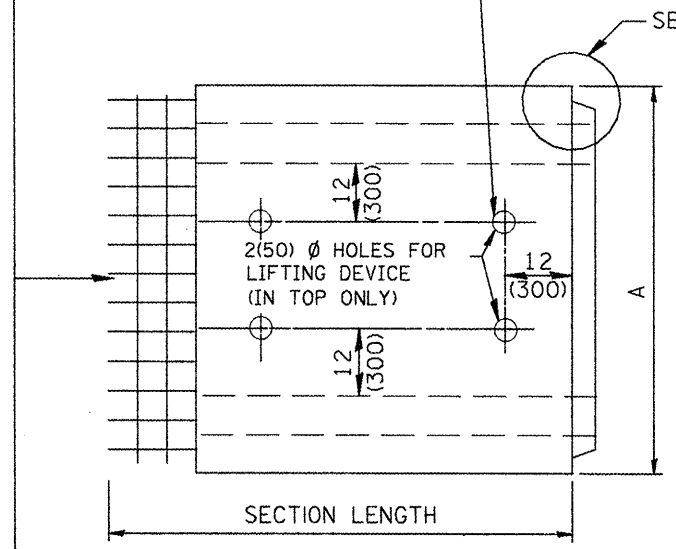
- GENERAL NOTES:**
- The Box Culvert Sections shall conform to ASTM C789 for 2' (0.6 m) cover or more. If less than 2' (0.6 m) of cover exists, then ASTM C-850 applies and modify Table 'B' and drawing.
  - The Aggregate shall conform to the requirements of Articles 1003.02 and 1004.02 of the Standard Specifications. The gradation requirements do not apply.
  - The External Sealing Band shall conform to ASTM C 877. The appropriate portions of Articles 550.02(1) and 1057.01 of the Standard Specifications shall apply.
  - Shop plans for the Precast Reinforced Box Culvert Sections, End Sections and Drop Box End Sections shall be submitted in accordance with Article 540.06 of the Standard Specifications.
  - All dimensions shall be verified with the Supplier.

01-01-97	RENUM. J-12.08 AND J-12.09, NEW FORMAT, METRICS.	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PRECAST CONCRETE BOX CULVERTS (SPECIAL),</b> <b>END SECTION (SPECIAL), &amp;</b> <b>DROP BOX END SECTIONS (SPECIAL)</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
05-01-97	NEW REVISION BOX, NOTES	J.A.											235
06-17-99	CORRECT TITLE & GEN. NOTES	J.A.											
	CORRECT DIMENSIONS	J.A.											
							NOT TO SCALE	SHT. 1 OF 2 CADD STD. 540401-D4	CONTRACT NO. _____ <small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>				

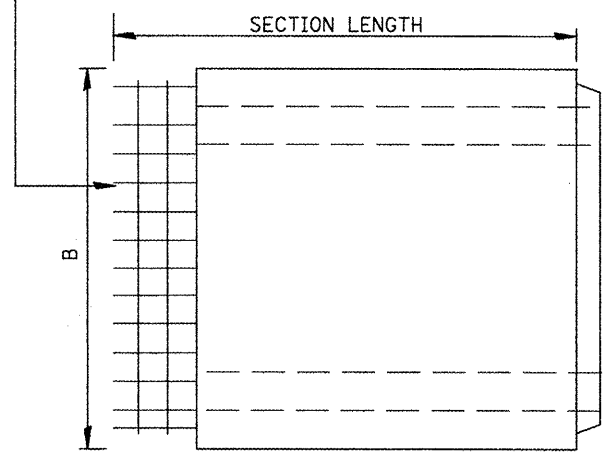
All dimensions are in inches (millimeters) unless otherwise noted.



Leave 10(250) of reinforcement exposed and place this end into concrete collar  
 Location of lifting holes may vary as needed to clear reinforcement

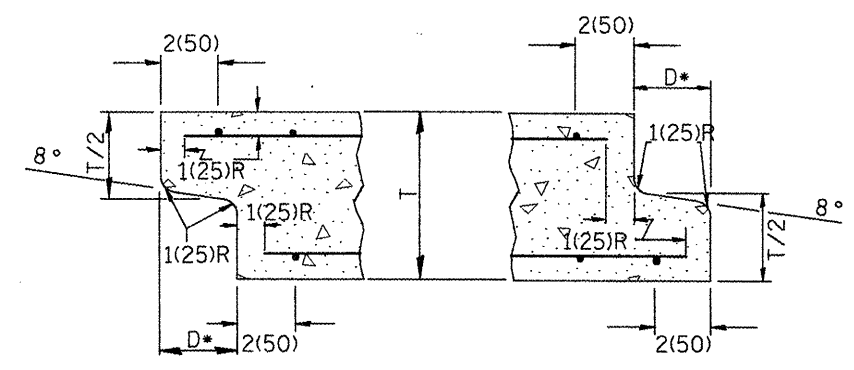


PLAN



ELEVATION

SEE DETAIL A

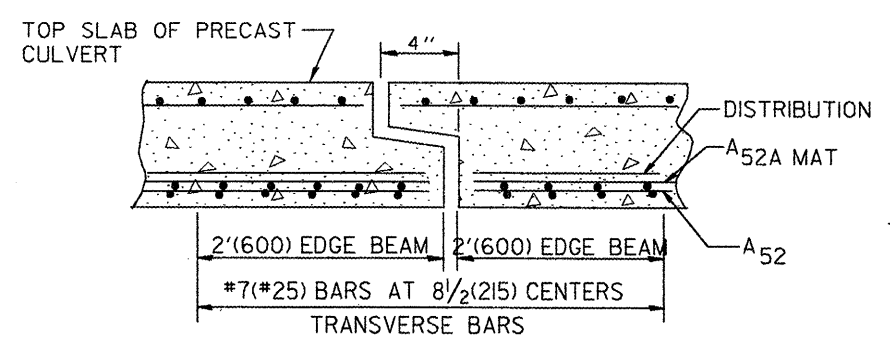


DETAIL A

(TYP. INLET END) (TYP. OUTLET END)

NOTE: Inlet and outlet ends shall be compatible.

\*The D dimension shall conform to the manufacturer's standards.



TYP. JOINT SHOWING EDGE BEAM REINFORCEMENT

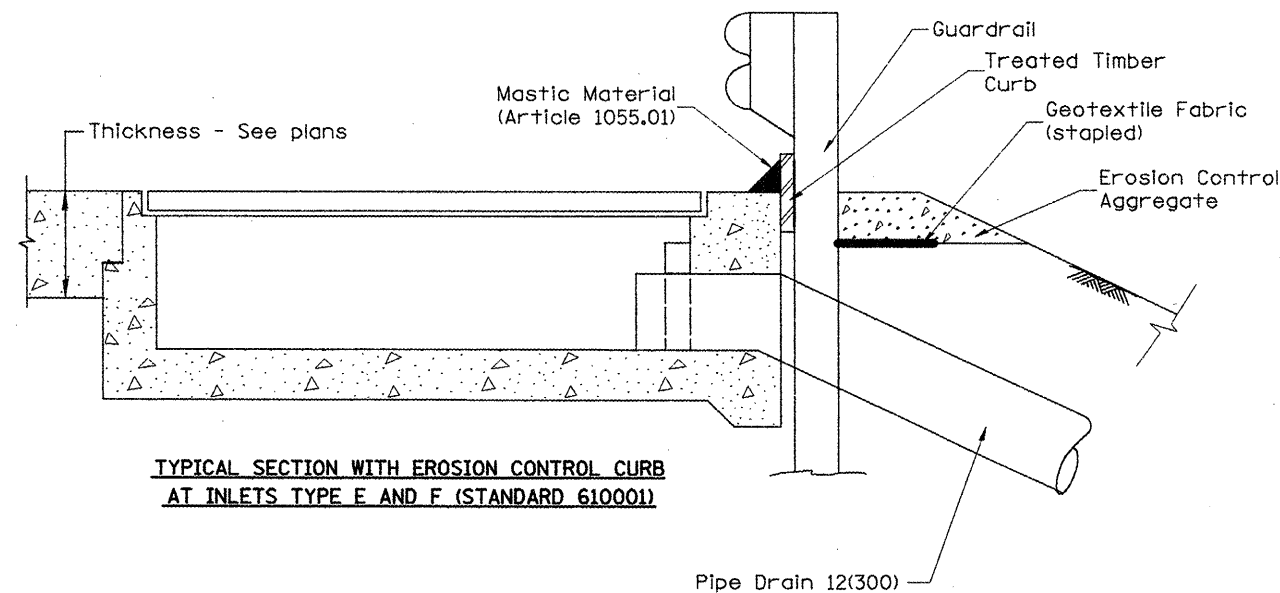
NOTE: The additional Reinforcing Steel required for edge beams shall have the same length as As2A. The required area, As10, may be combined with As2 in a single mat or placed in a separate layer as shown above. The additional Steel may be Welded Wire Fabric or grade 60 Deformed Bars.

(See GENERAL NOTES on sheet 1 of 2)

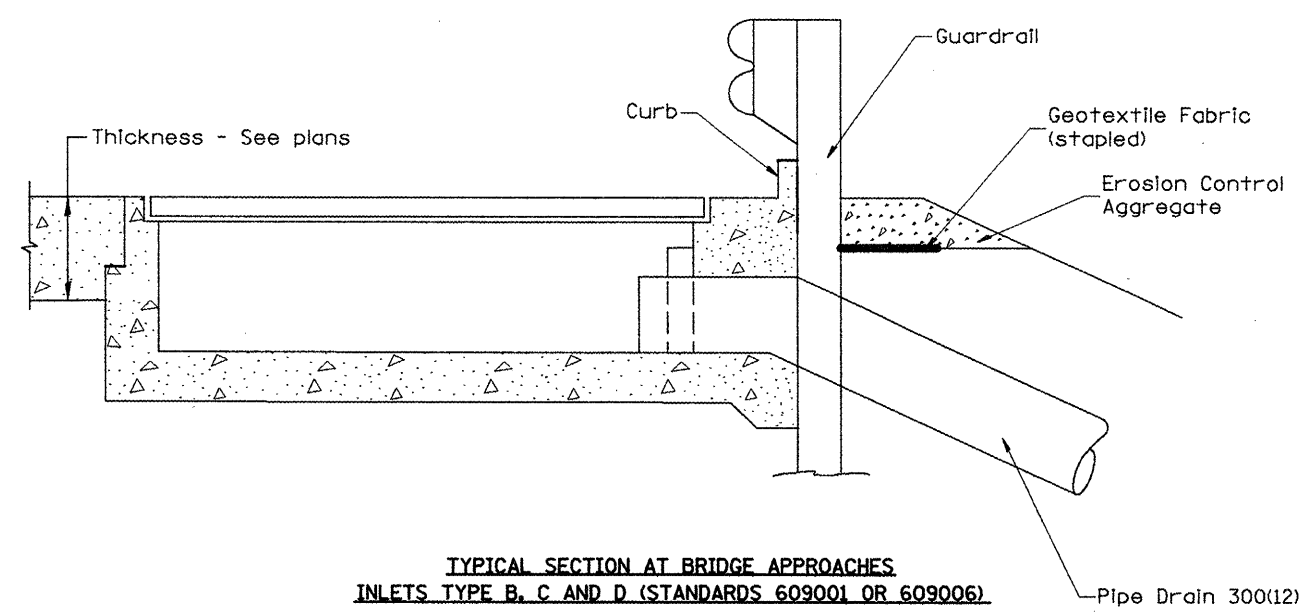
(DIMENSIONS APPLY TO END SECTION AND BOX SECTION DETAILS)

SPAN X RISE ft (mm)	T in (mm)	A	B	C in (mm)	E in (mm)	F	G	H in (mm)	SLOPE (Y : X)
2x2 (600x600)	4(100)	32(815)	32(815)	4(100)	36(915)	36(915)	12(305)	12(305)	1 : 3
2x3 (600x900)	4(100)	32(815)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
3x2 (900x600)	4(100)	3'-8" (1.12m)	32(815)	4(100)	36(915)	36(915)	12(305)	12(305)	1 : 3
3x2.5 (900x750)	4(100)	3'-8" (1.12m)	38(965)	4(100)	30(760)	3'-6" (1.07m)	16(410)	14(355)	1 : 3
3x3 (900x900)	4(100)	3'-8" (1.12m)	3'-8" (1.12m)	4(100)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x2 (1200x600)	5(125)	4'-10" (1.48m)	34(865)	5(125)	36(915)	36(915)	12(305)	12(305)	1 : 3
4x3 (1200x900)	5(125)	4'-10" (1.48m)	3'-10" (1.17m)	5(125)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
4x4 (1200x1200)	5(125)	4'-10" (1.48m)	4'-10" (1.48m)	5(125)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
4x5 (1200x1500)	5(125)	4'-10" (1.48m)	5'-10" (1.78m)	5(125)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
4x6 (1200x1800)	5(125)	4'-10" (1.48m)	6'-10" (2.09m)	5(125)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	4'-0" (1.22m)	1 : 2
5x2 (1500x600)	6(150)	6'-0" (1.83m)	36(915)	6(150)	36(915)	36(915)	12(305)	12(305)	1 : 3
5x3 (1500x900)	6(150)	6'-0" (1.83m)	4'-0" (1.22m)	6(150)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
5x4 (1500x1200)	6(150)	6'-0" (1.83m)	5'-0" (1.52m)	6(150)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
5x5 (1500x1500)	6(150)	6'-0" (1.83m)	6'-0" (1.83m)	6(150)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x2 (1800x600)	7(175)	7'-2" (2.17m)	38(965)	7(175)	36(915)	36(915)	12(305)	12(305)	1 : 3
6x3 (1800x900)	7(175)	7'-2" (2.17m)	4'-2" (1.27m)	7(175)	24(610)	4'-0" (1.22m)	20(510)	16(410)	1 : 3
6x4 (1800x1200)	7(175)	7'-2" (2.17m)	5'-2" (1.57m)	7(175)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
6x5 (1800x1500)	7(175)	7'-2" (2.17m)	6'-2" (1.88m)	7(175)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
6x6 (1800x1800)	7(175)	7'-2" (2.17m)	7'-2" (2.17m)	7(175)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x4 (2100x1200)	8(200)	8'-4" (2.54m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
7x5 (2100x1500)	8(200)	8'-4" (2.54m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
7x6 (2100x1800)	8(200)	8'-4" (2.54m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
7x7 (2100x2100)	8(200)	8'-4" (2.54m)	8'-4" (2.54m)	8(200)	24(610)	4'-0" (1.22m)	5'-0" (1.52m)	24(610)	1 : 2
8x4 (2400x1200)	8(200)	9'-4" (2.84m)	5'-4" (1.63m)	8(200)	24(610)	4'-0" (1.22m)	24(610)	24(610)	1 : 2
8x5 (2400x1500)	8(200)	9'-4" (2.84m)	6'-4" (1.93m)	8(200)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
8x6 (2400x1800)	8(200)	9'-4" (2.84m)	7'-4" (2.24m)	8(200)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2
9x5 (2700x1500)	9(225)	10'-6" (3.2m)	6'-6" (1.98m)	9(225)	24(610)	4'-0" (1.22m)	36(915)	24(610)	1 : 2
9x6 (2700x1800)	9(225)	10'-6" (3.2m)	7'-6" (2.29m)	9(225)	24(610)	4'-0" (1.22m)	4'-0" (1.22m)	24(610)	1 : 2

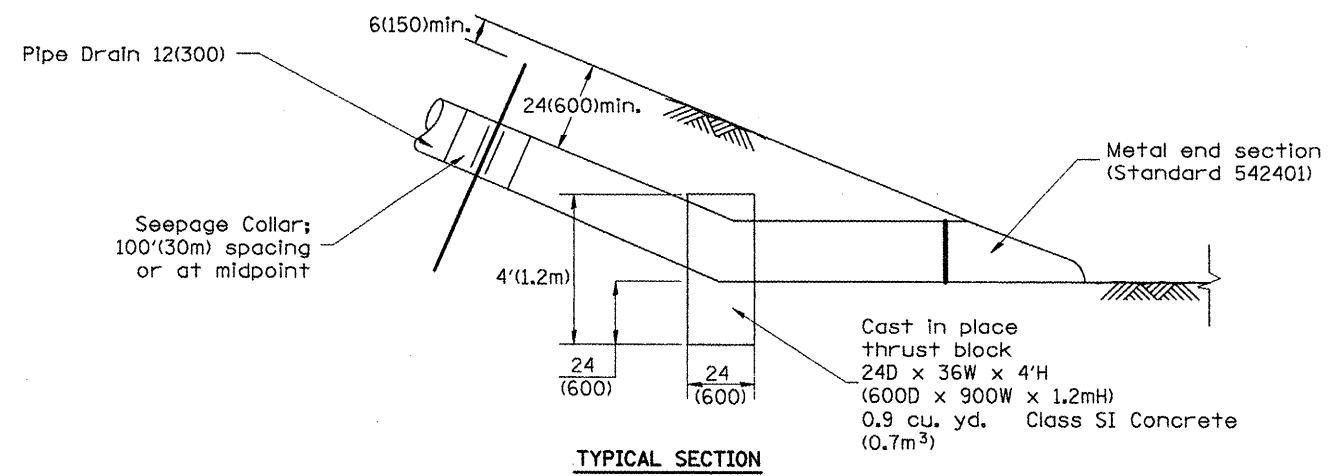
All dimensions are in Inches (millimeters) unless otherwise noted.



**TYPICAL SECTION WITH EROSION CONTROL CURB AT INLETS TYPE E AND F (STANDARD 610001)**



**TYPICAL SECTION AT BRIDGE APPROACHES INLETS TYPE B, C AND D (STANDARDS 609001 OR 609006)**



**TYPICAL SECTION**

**GENERAL NOTES**

1. The material for Pipe Drains shall be bituminous coated galvanized corrugated steel culvert pipe or bituminous coated corrugated aluminum alloy pipe in accordance with Article 601.02(f) or 601.02(i).
2. An approved mastic material (Article 1055.01) shall be applied to the inside of the connecting bands.

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

DESIGNER NOTES:  
2. INCLUDE STATE STANDARDS 609001, 609006 OR 610001, IF APPLICABLE  
3. INCLUDE DISTRICT CADD STANDARDS FOR "GUARDRAIL EROSION CONTROL TREATMENTS", "SEEPAGE COLLARS FOR BURIED PIPES", AND "PIPE ELBOW"

QUANTITIES	
CALC. BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

01-01-97	RENUM. H-1.04, NEW REVISION BOX, REVISED TITLE	T.P.	
	BOX, REVISED DESIGNER NOTES, ADDED QUANTITY		
	CALCULATION BOX		
10-16-06	REVISED TO 2007 SPEC.	M.A.	

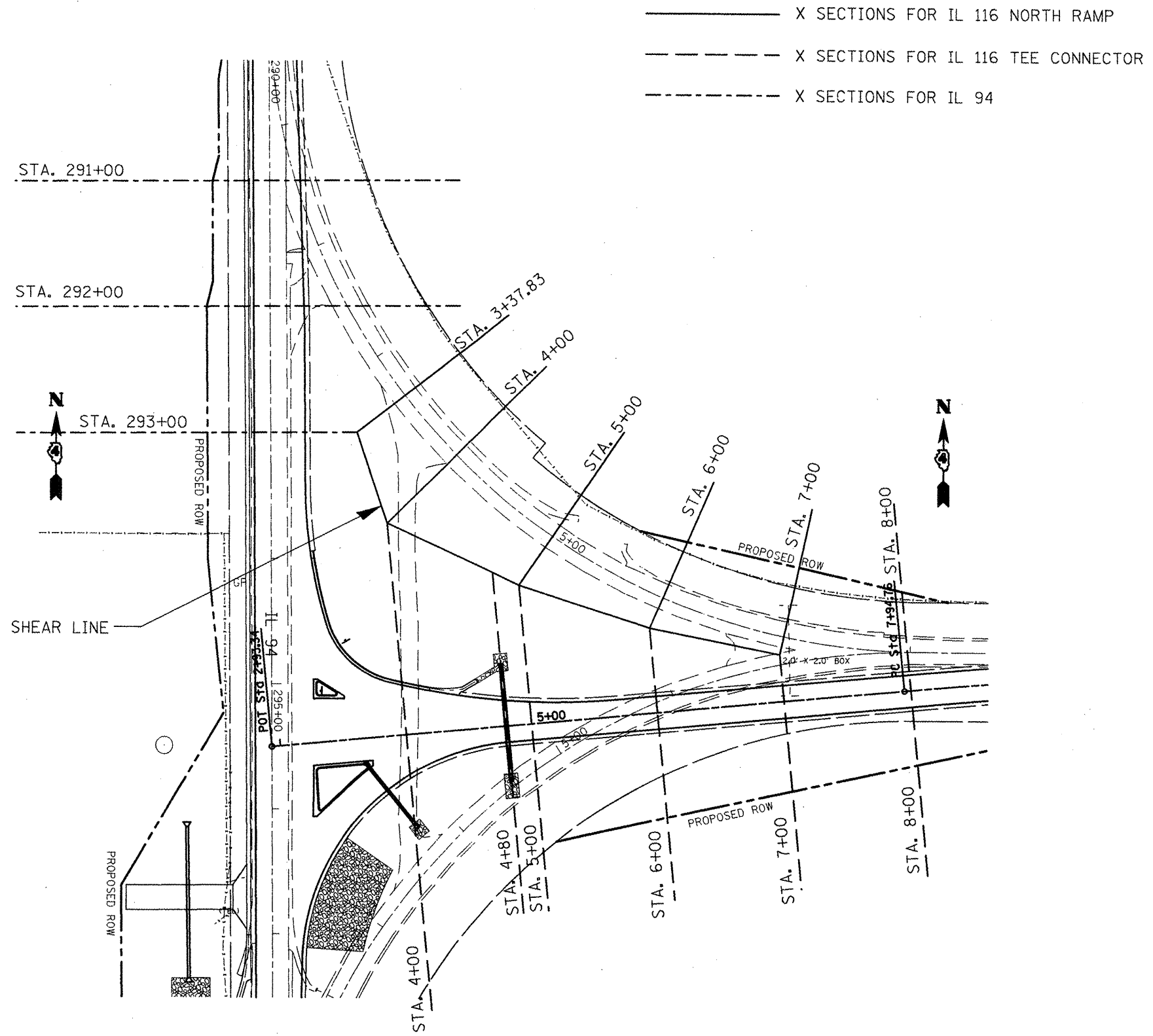
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SLOPE DRAIN DETAILS FOR BURIED PIPES**

NOT TO SCALE

CADD STD. 601101-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				237
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



\_\_\_\_\_ X SECTIONS FOR IL 116 NORTH RAMP  
 - - - - - X SECTIONS FOR IL 116 TEE CONNECTOR  
 - . - . - X SECTIONS FOR IL 94

FILE NAME = mscsheets.dgn	USER NAME = ghidnaem	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

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

**SHEAR LINE DIAGRAM**  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

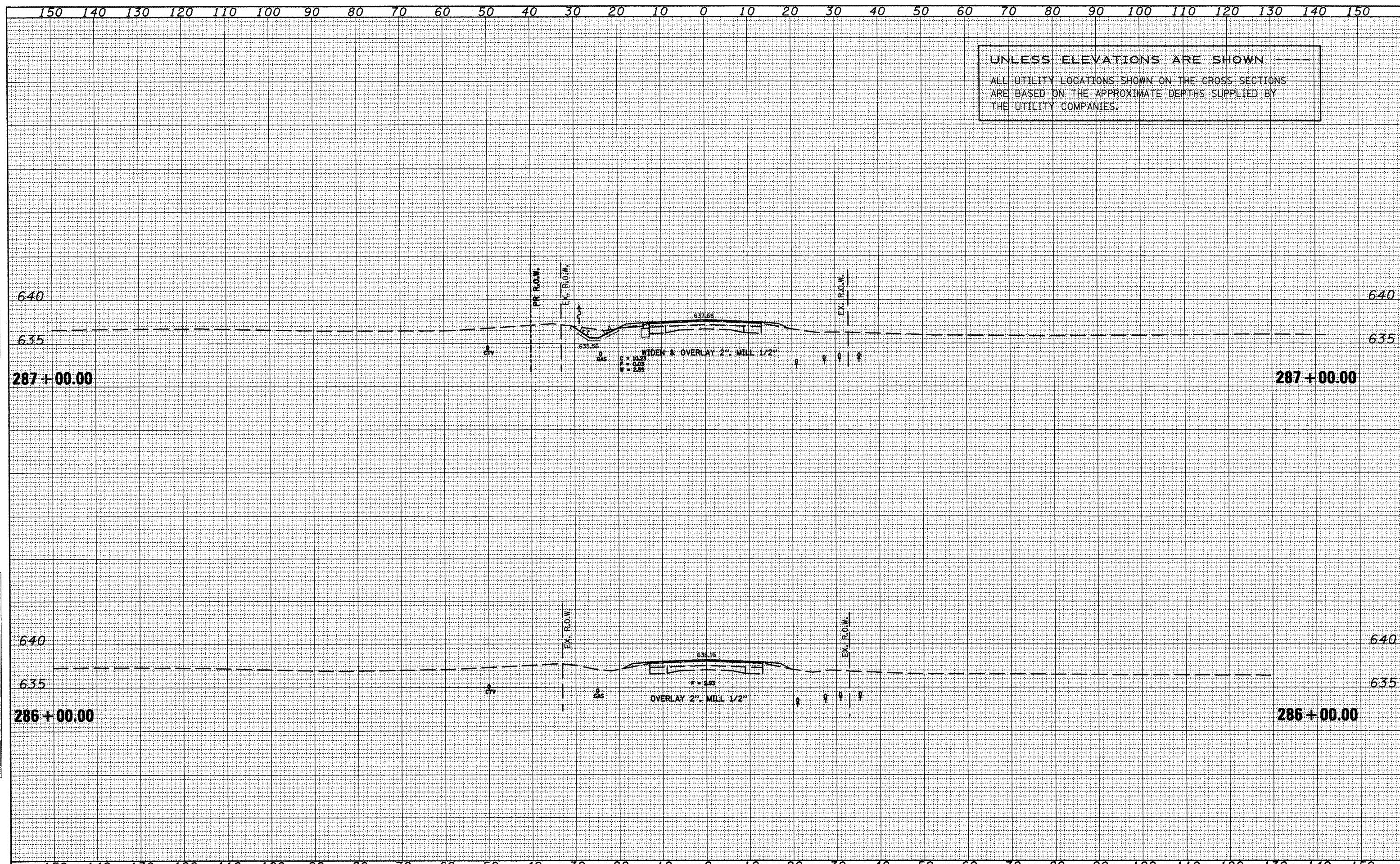
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	036.137W&RS-3436&109BR-2	HENDERSON		238
CONTRACT NO. 88773				



FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	BY
	DESIGNED
	DRAWN
	CHECKED
	REVISIONS
	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	BY
	DESIGNED
	DRAWN
	CHECKED
	REVISIONS
	DATE

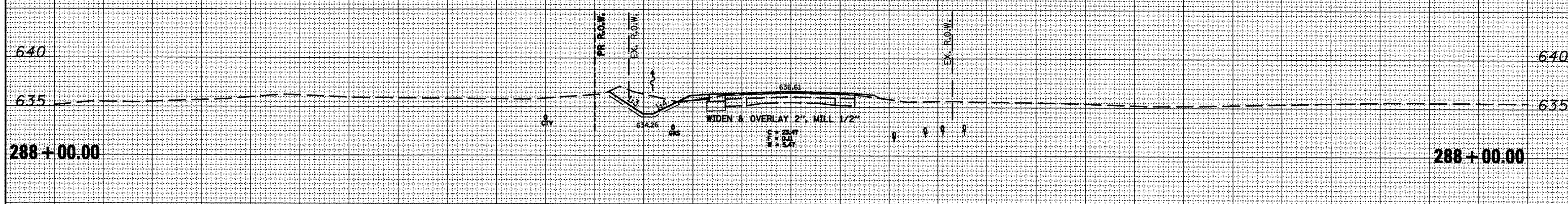
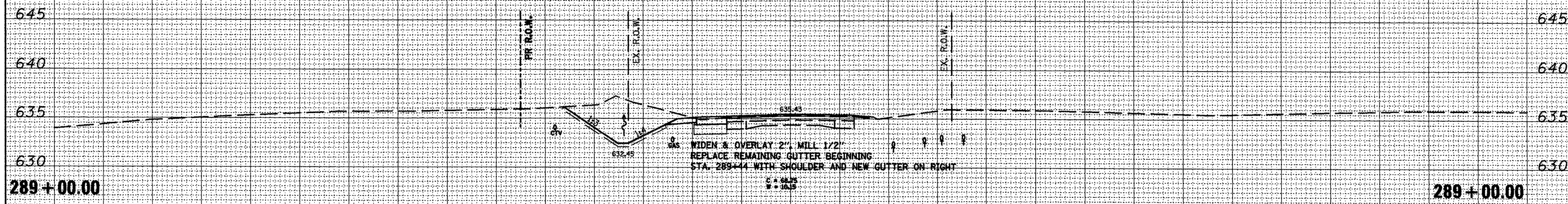
UNLESS ELEVATIONS ARE SHOWN ---  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
 THE UTILITY COMPANIES.





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

UNLESS ELEVATIONS ARE SHOWN  
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 THE UTILITY COMPANIES.



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

UNDESIGNED SURVEY PLOTTED TEMPLATE AREAS CHECKED

UNDESIGNED SURVEY PLOTTED TEMPLATE AREAS CHECKED

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 USER NAME = ghidnaam

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 94 - MAINLINE  
 SCALE: SHEET NO. OF SHEETS STA. 288+00.00 TO STA. 289+00.00

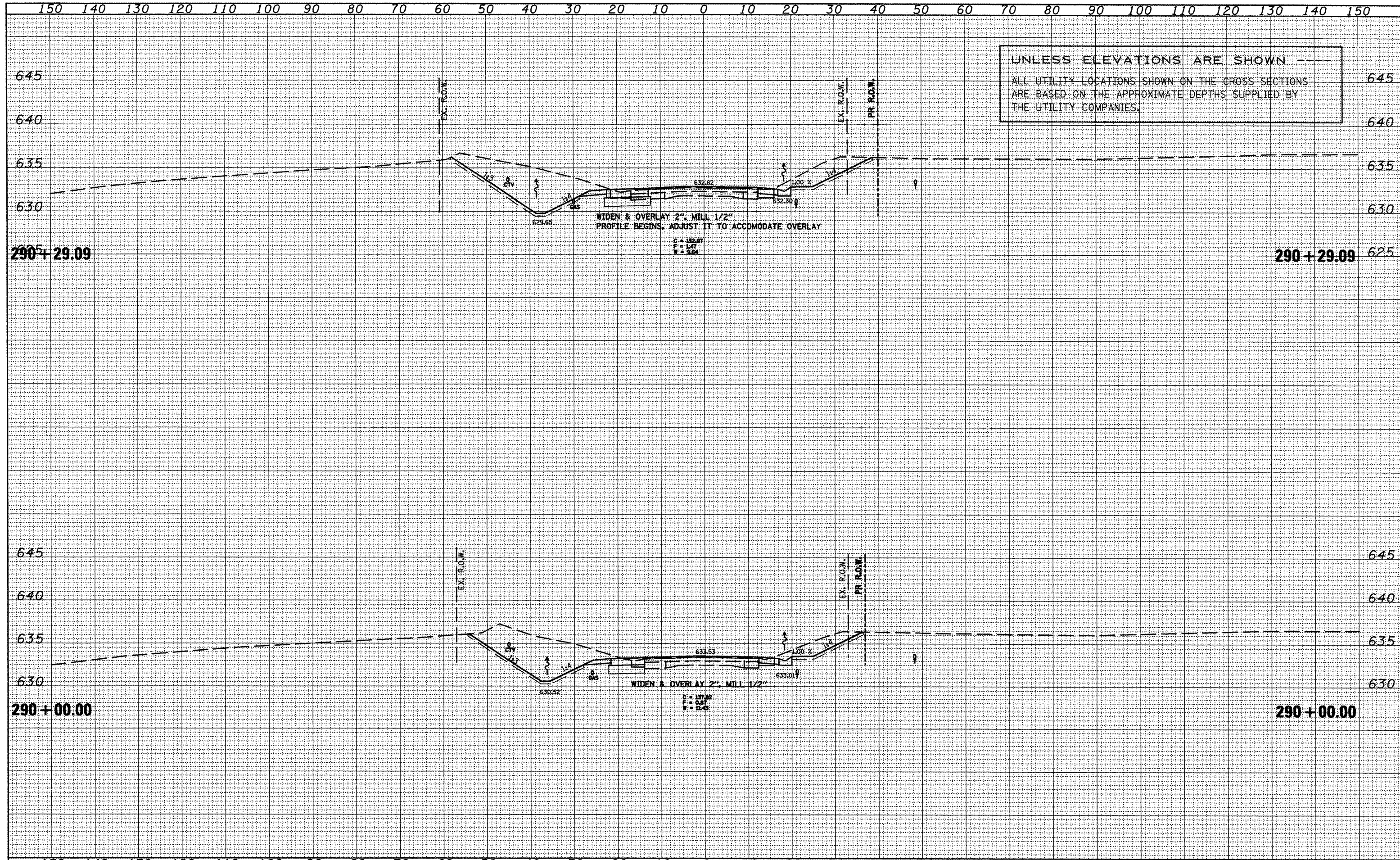
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CONTRACT NO. 88773				

ILLINOIS FED. AID PROJECT



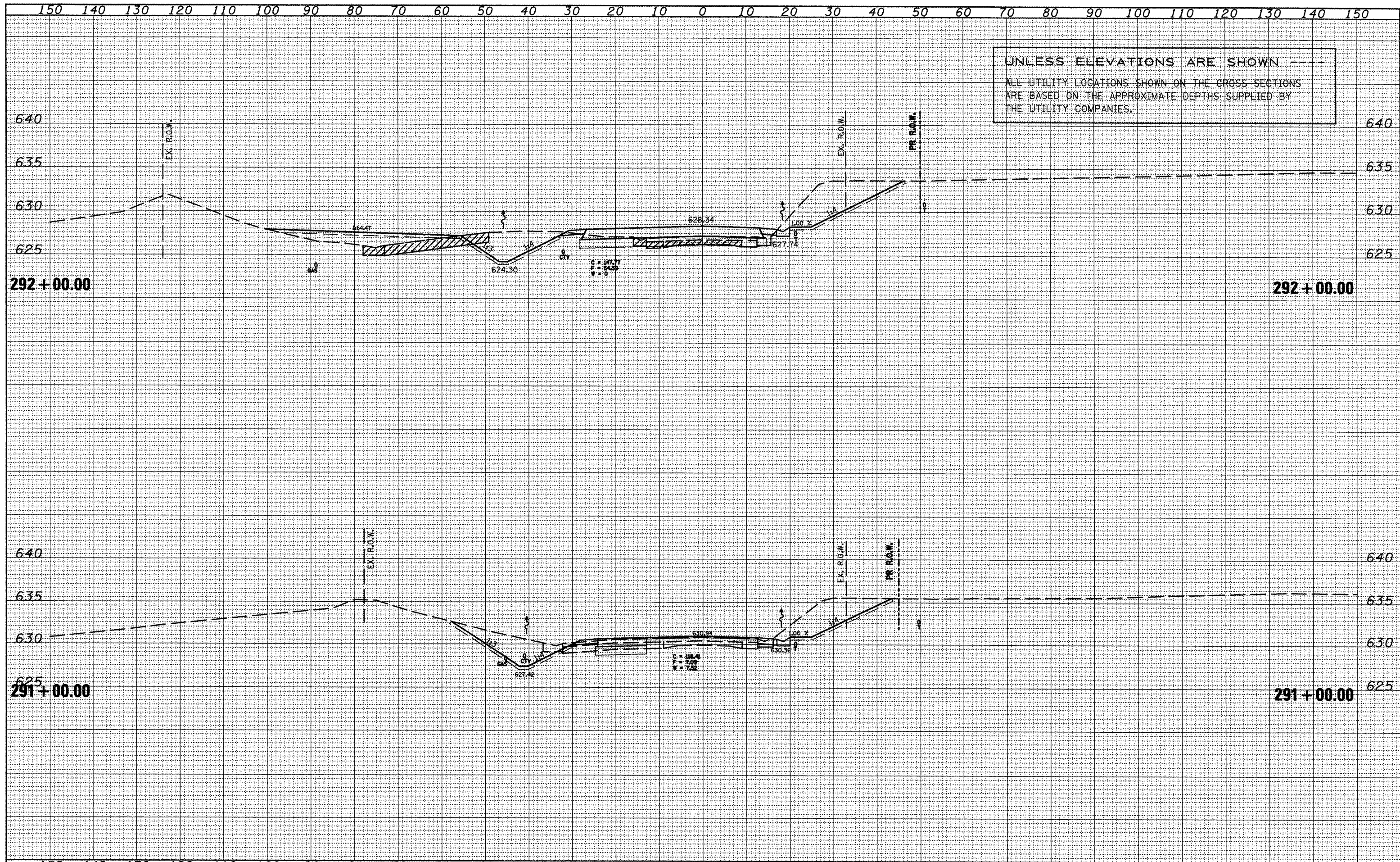
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BY	
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PROFILING	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PROFILING	
NOTE BOOK	
AREAS CHECKED	
NO.	



UNLESS ELEVATIONS ARE SHOWN  
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UNLESS ELEVATIONS ARE SHOWN  
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FINAL SURVEY	DATE
DATE	
NO.	

ORIGINAL SURVEY	DATE
DATE	
NO.	

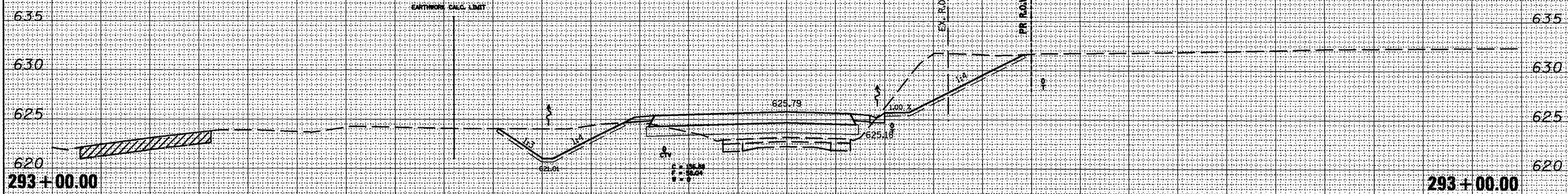


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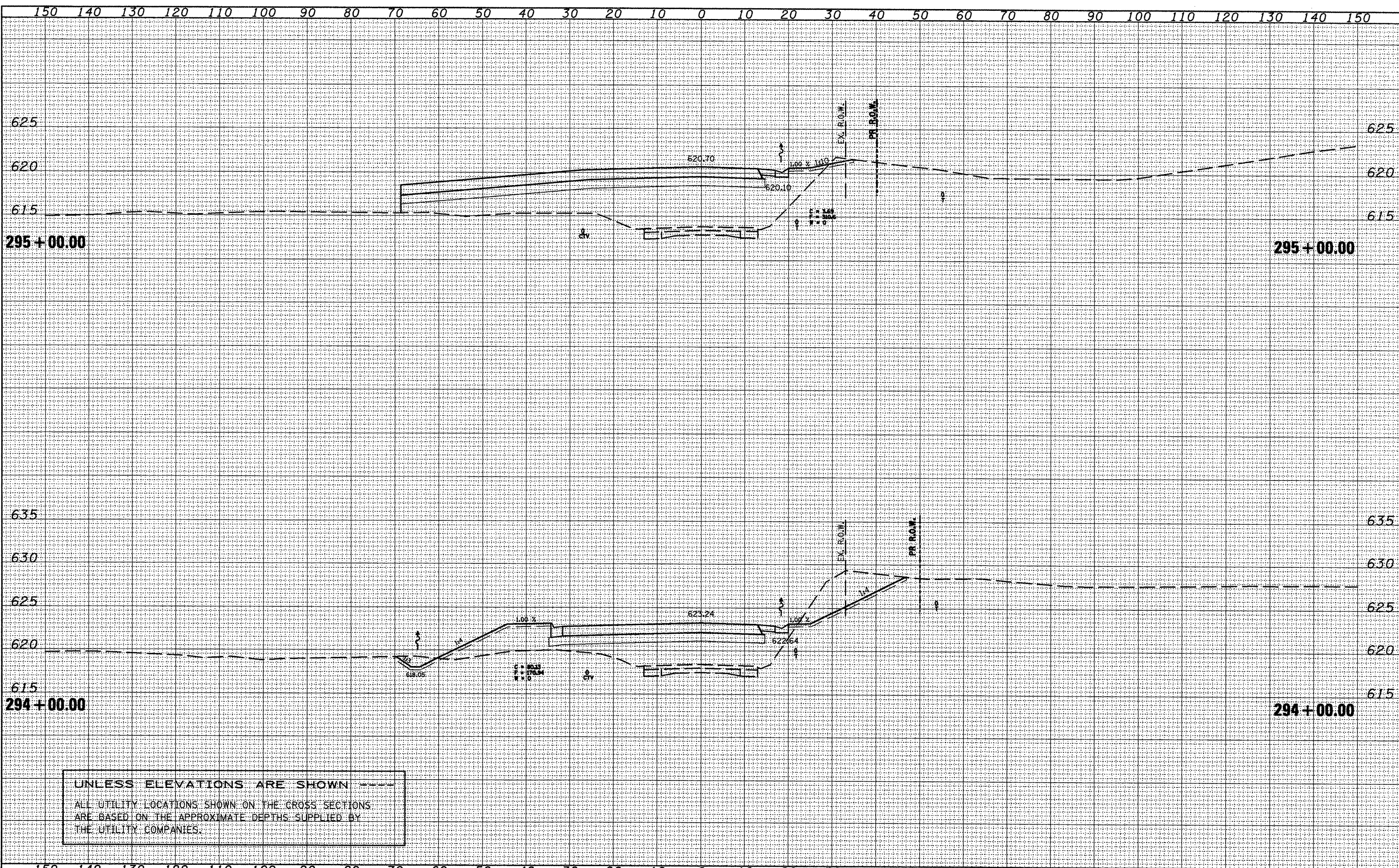
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FINAL SURVEY  
 SURVEY  
 NOTE BOOK  
 NO.

ORIGINAL SURVEY  
 SURVEY  
 NOTE BOOK  
 NO.







DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
AREAS CHECKED	

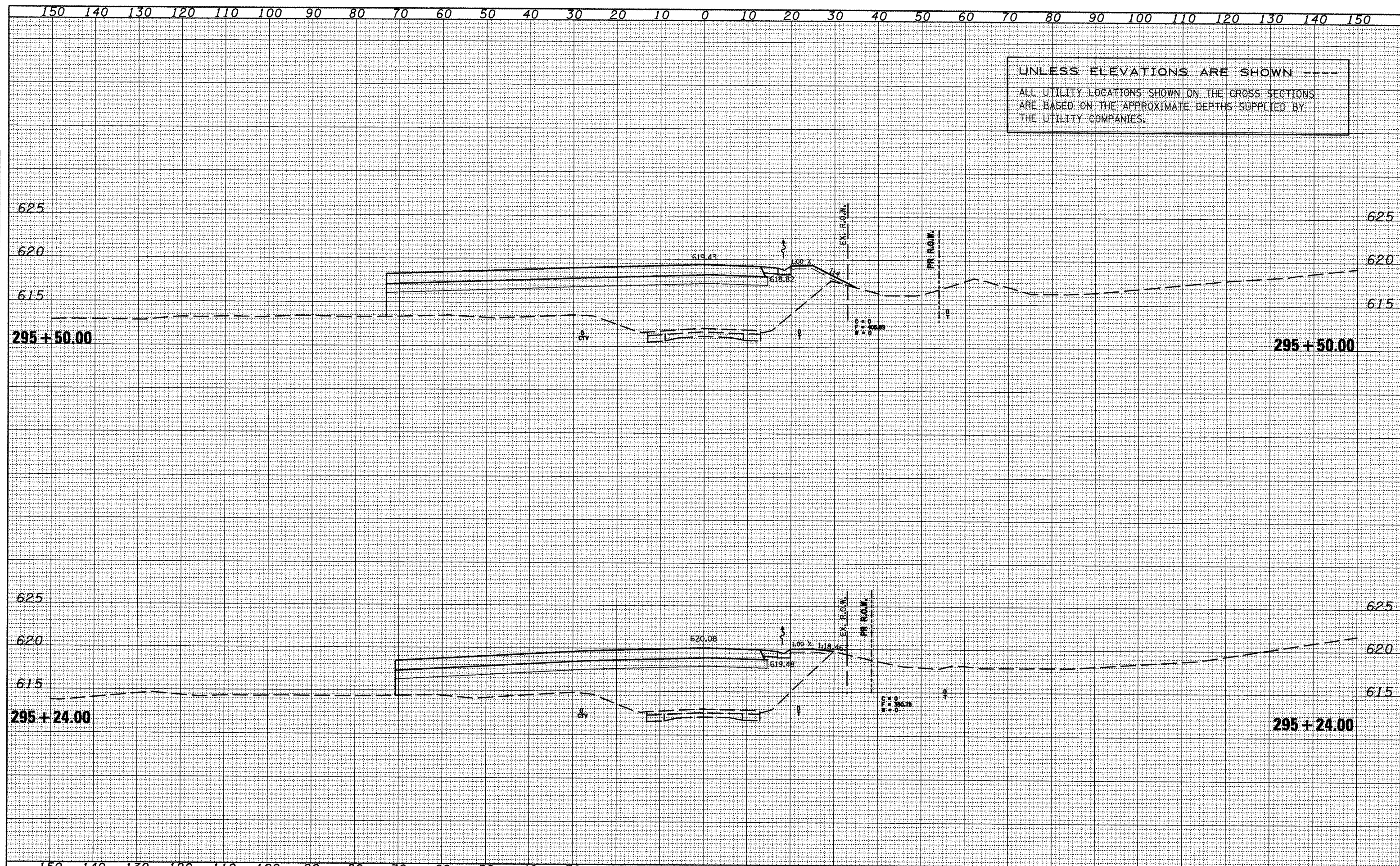
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 THE UTILITY COMPANIES.



DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
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 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
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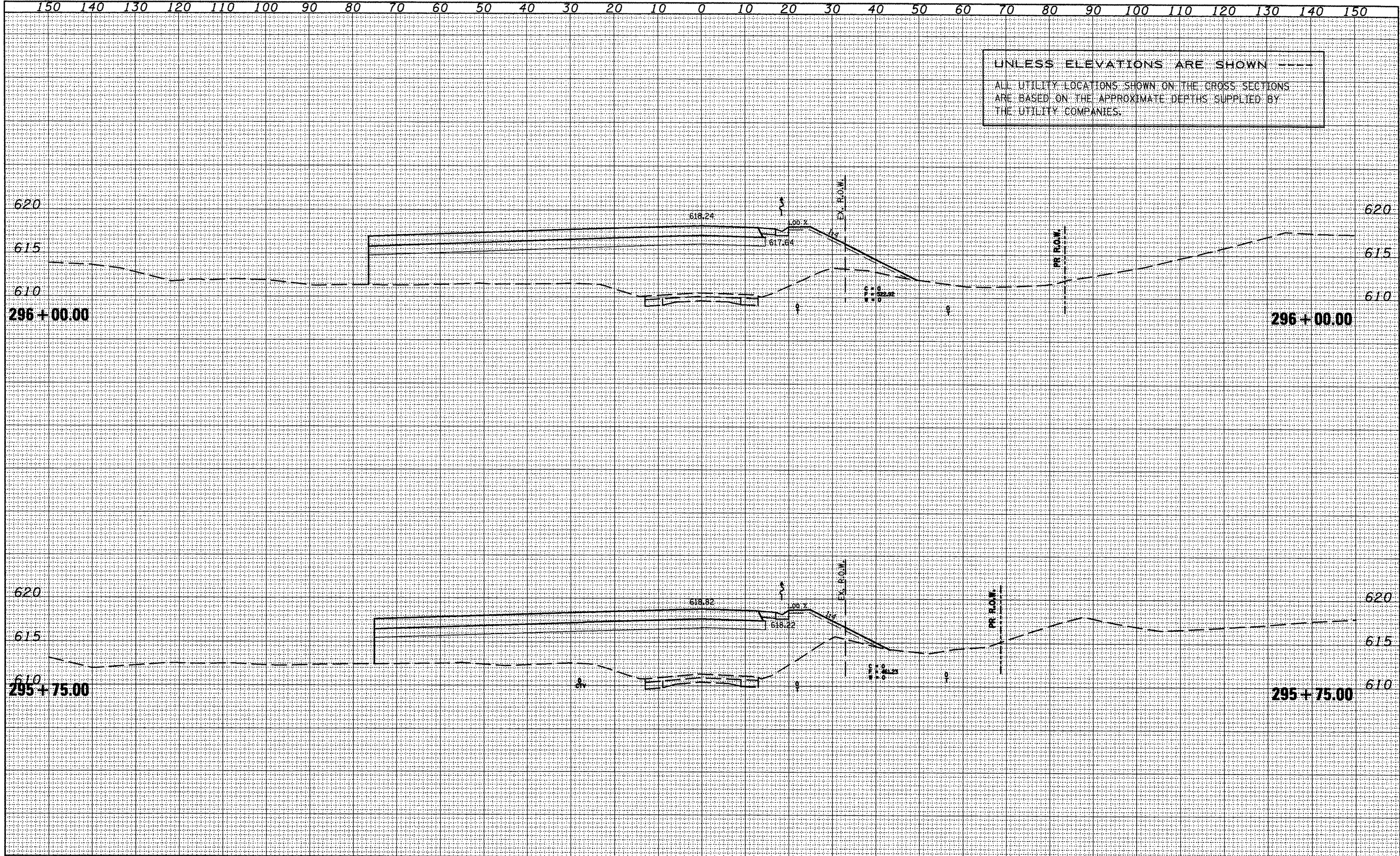
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 THE UTILITY COMPANIES.





DATE	
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REVISIONS	
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REVISIONS	
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REVISIONS	
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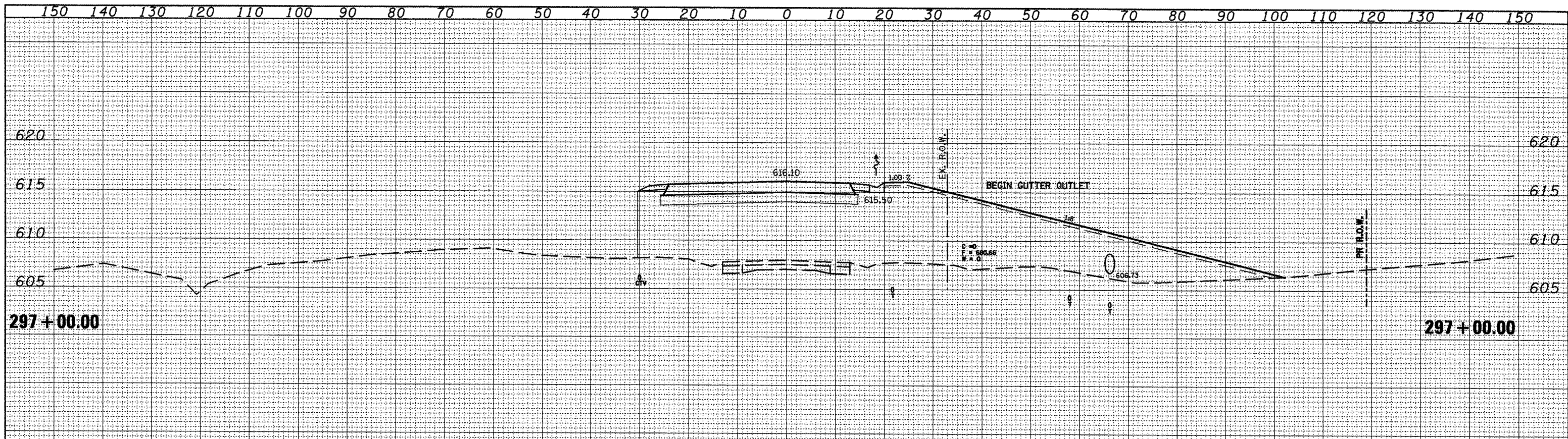
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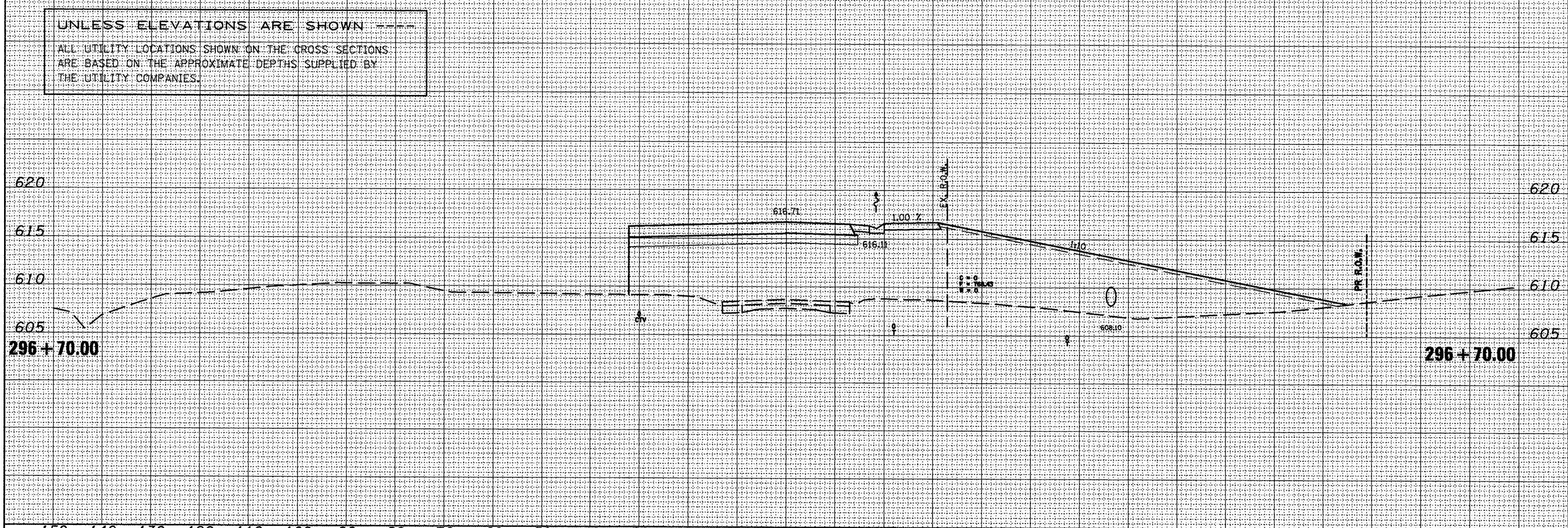


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 BY: \_\_\_\_\_  
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 AREAS CHECKED \_\_\_\_\_  
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DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
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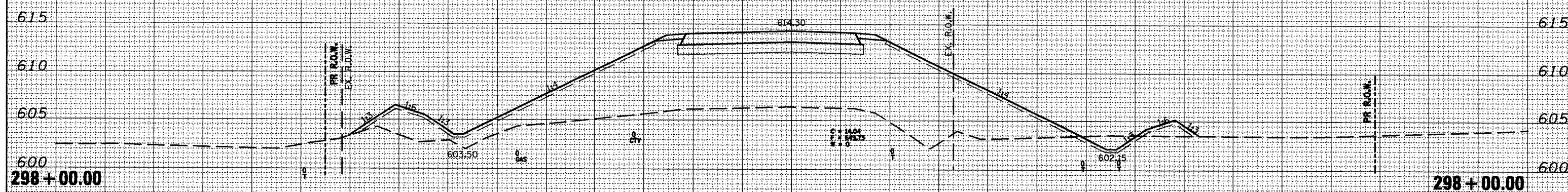
UNLESS ELEVATIONS ARE SHOWN ----  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
 THE UTILITY COMPANIES.





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

UNLESS ELEVATIONS ARE SHOWN ---  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
 THE UTILITY COMPANIES.



FINAL SURVEY  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. OF SHEETS STA. 298+00.00 TO STA. 298+00.00

F. MAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3109BR-2	HENDERSON	218	218
CONTRACT NO. 88773				

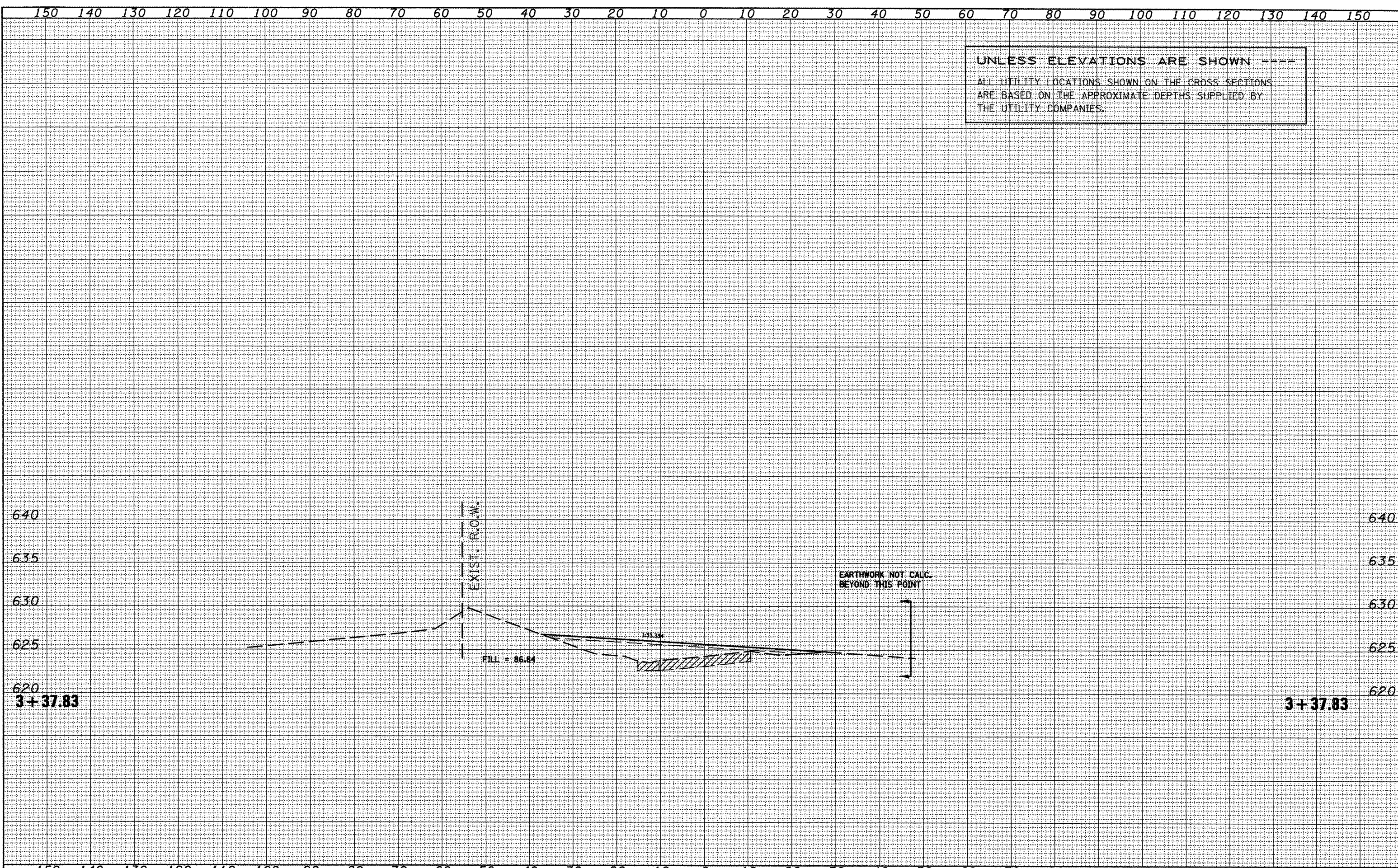
ILLINOIS FED. AID PROJECT



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 THE UTILITY COMPANIES.



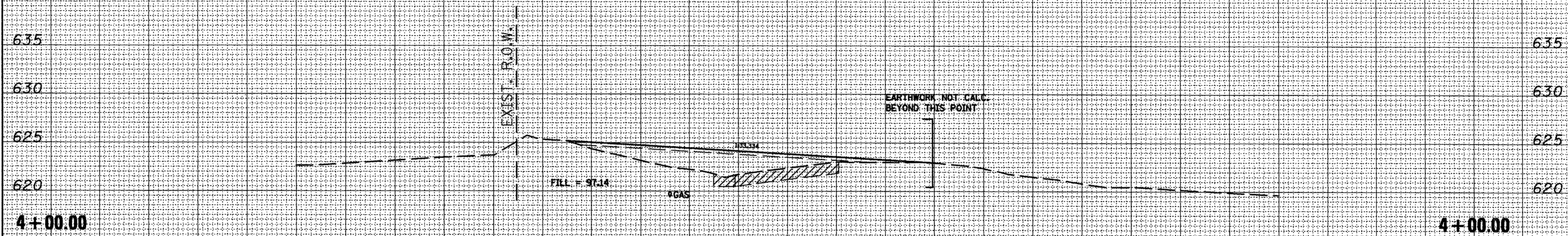


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UNLESS ELEVATIONS ARE SHOWN -----  
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 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

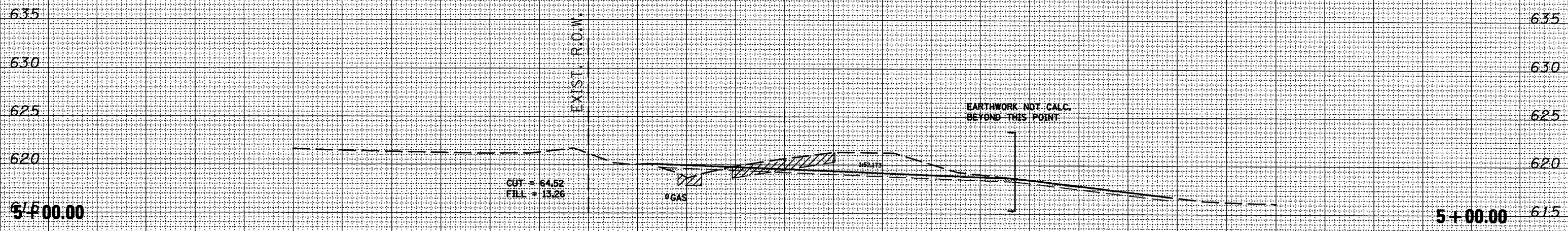
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F. & A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;109BR-2	HENDERSON		250
				CONTRACT NO. 88773
ILLINOIS FED. AID PROJECT				



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

UNLESS ELEVATIONS ARE SHOWN ---  
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 THE UTILITY COMPANIES.



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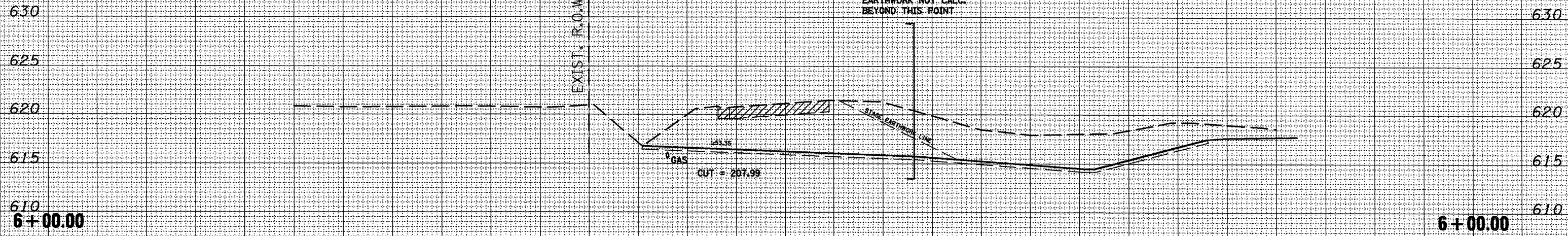
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		DRAWN -	REVISED -					665	(136,137)W&RS-3+109BR-2	HENDERSON	257
		CHECKED -	REVISED -					CONTRACT NO. 88773			
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT			



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

UNLESS ELEVATIONS ARE SHOWN ----  
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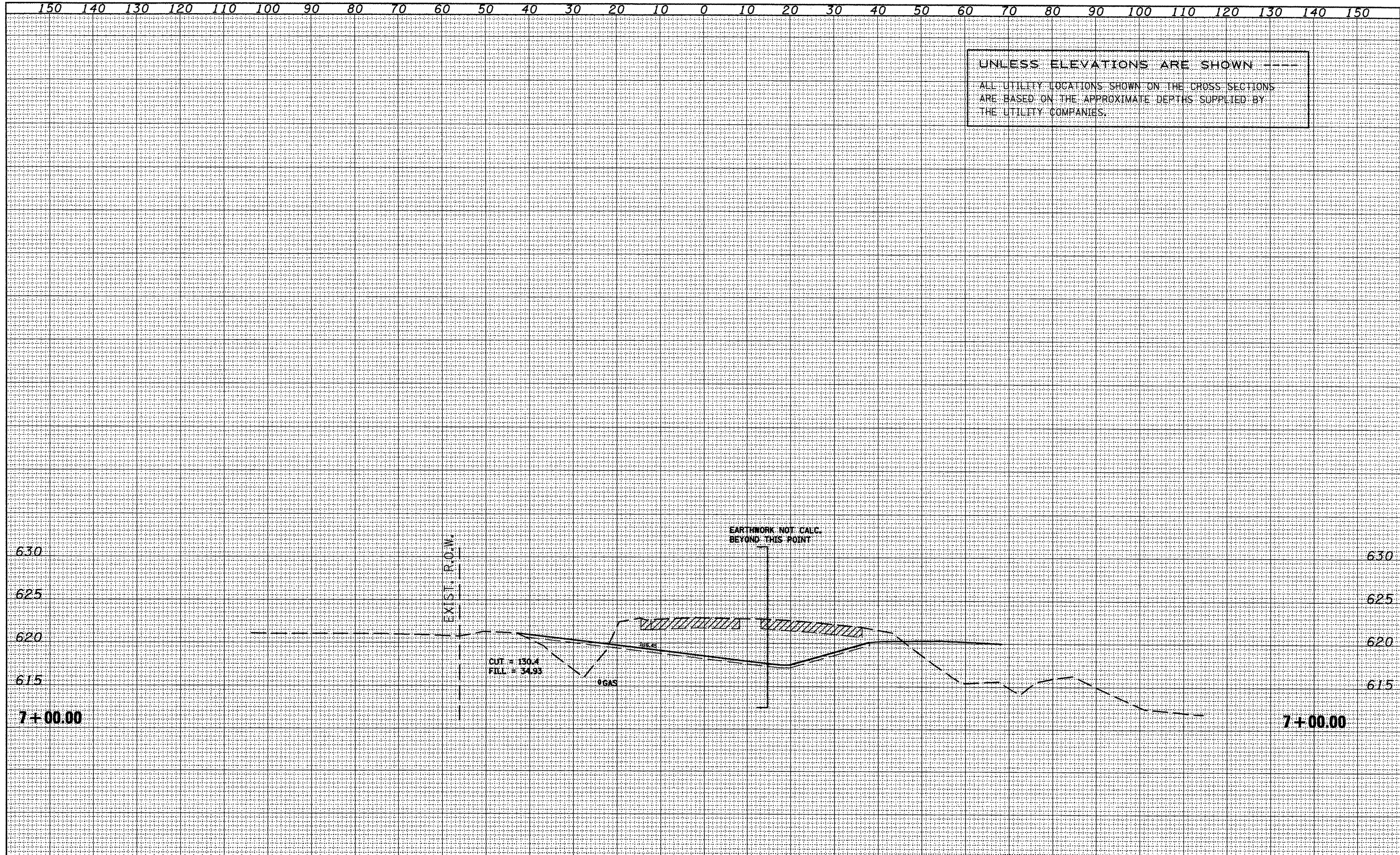
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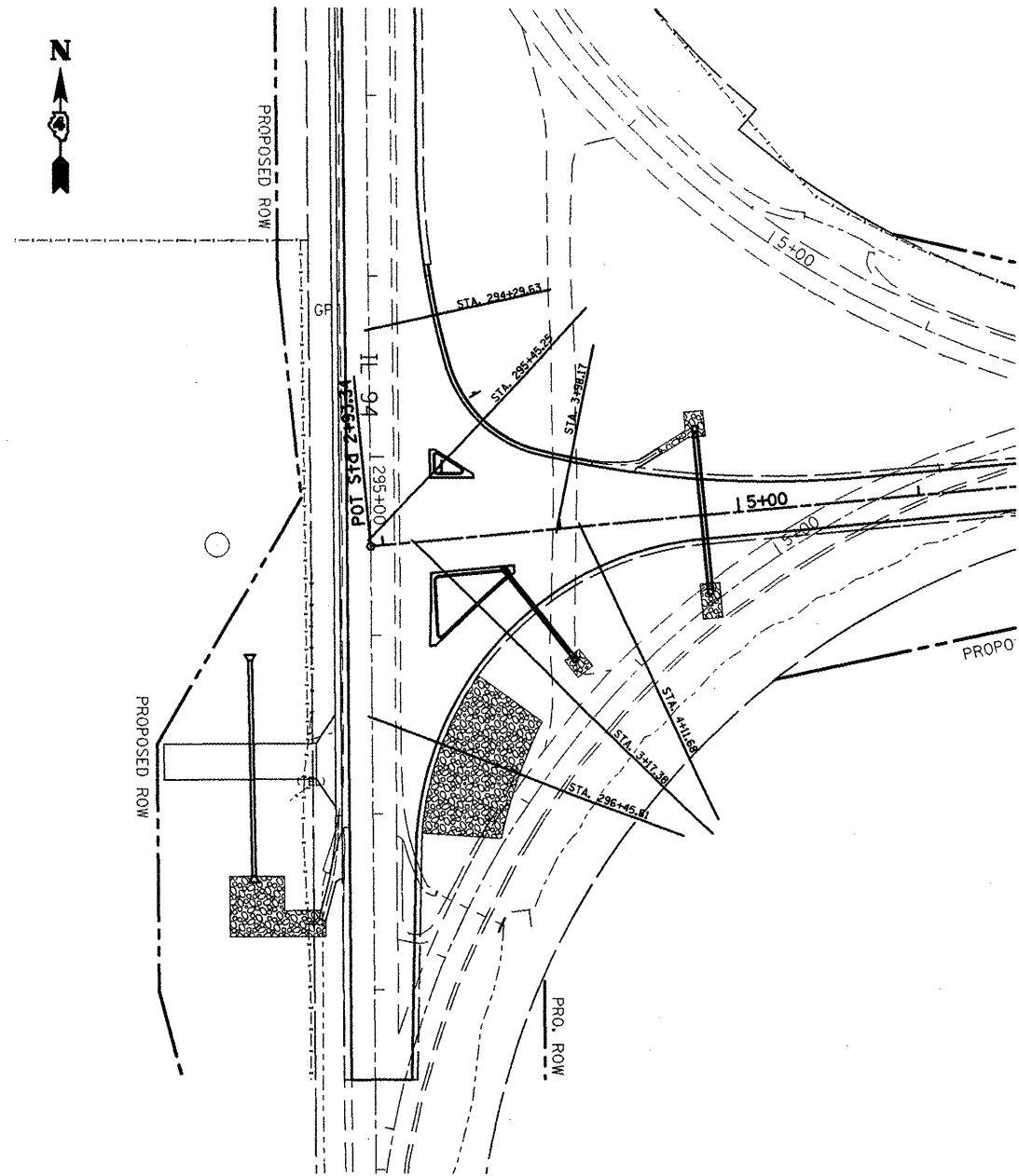


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PATTERN LINES REPRESENT THE CROSS SECTIONS FOR THE RADIUS AREAS.  
 EARTHWORK WAS CALCULATED FROM THESE CROSS SECTIONS.



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RADIUS CROSS SECTION DETAIL**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				<b>CONTRACT NO. 88773</b>
ILLINOIS FED. AID PROJECT				

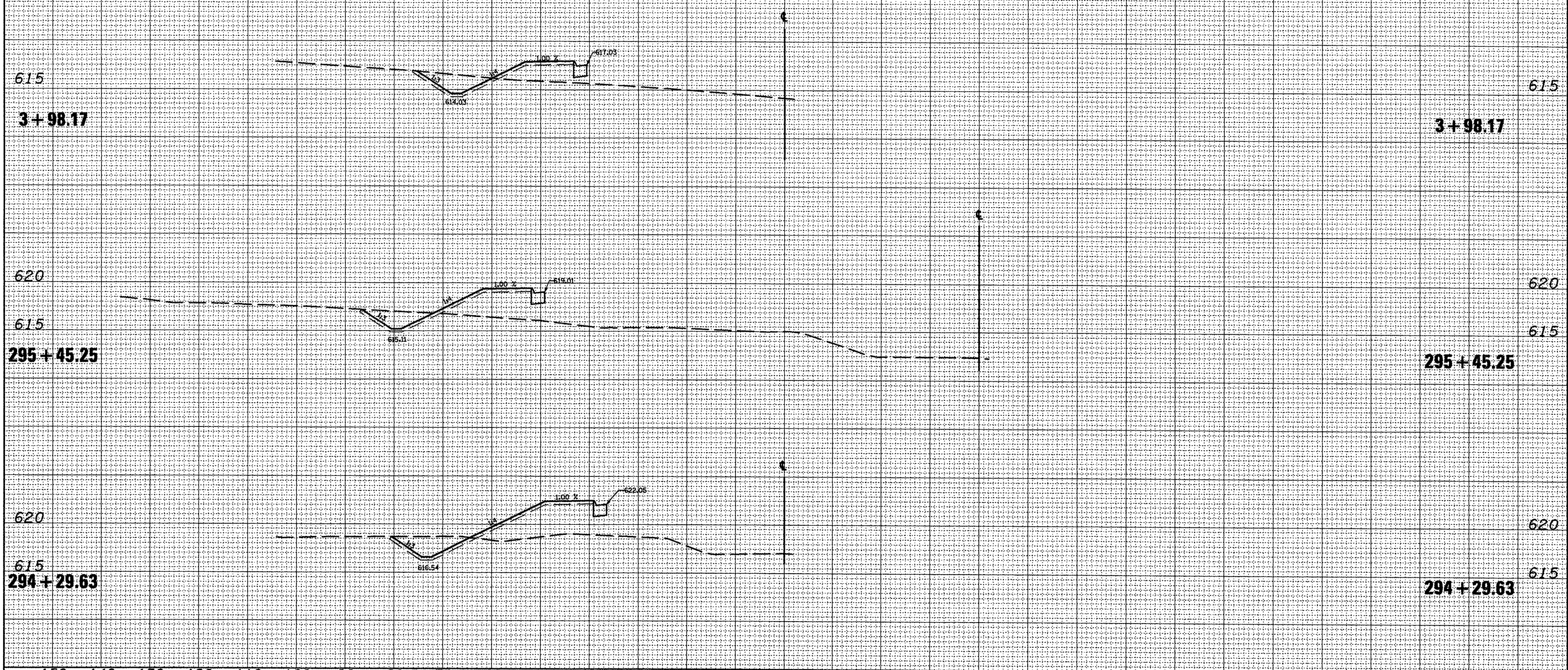


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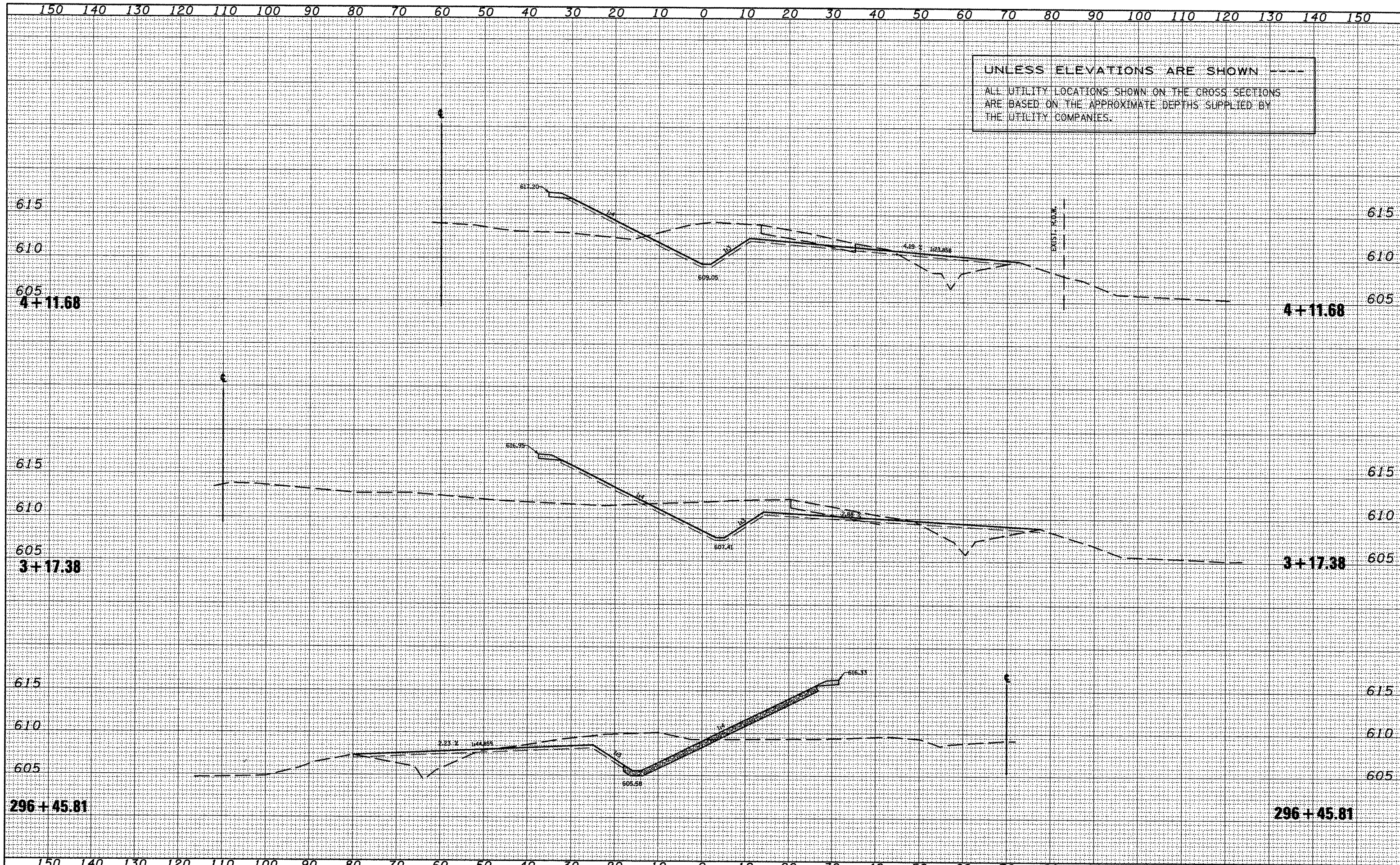
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UNLESS ELEVATIONS ARE SHOWN ---  
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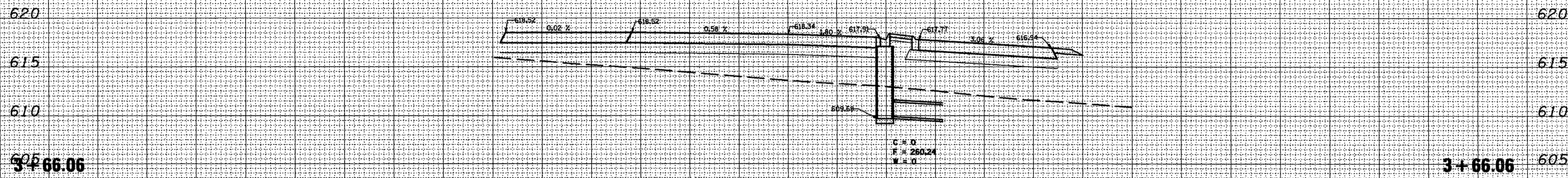
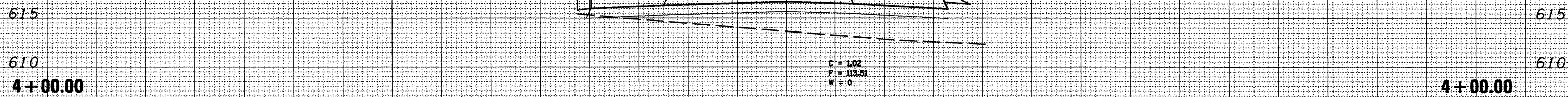
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UNLESS ELEVATIONS ARE SHOWN  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - TEE CONNECTOR  
 SCALE: SHEET NO. OF SHEETS STA. 3+66.06 TO STA. 4+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3+109BR-2	HENDERSON		257
CONTRACT NO. 88773				

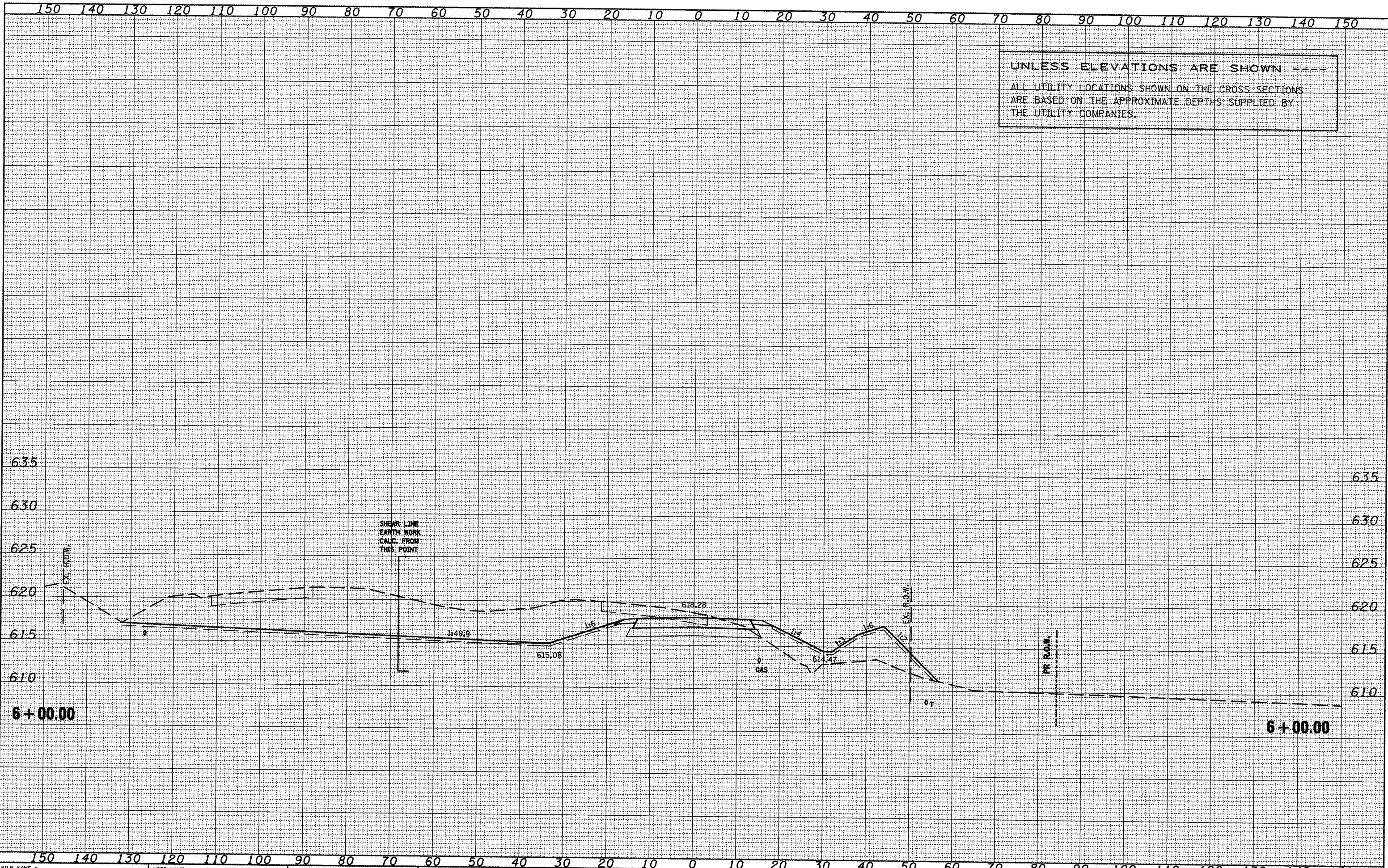
ILLINOIS FED. AID PROJECT







UNLESS ELEVATIONS ARE SHOWN  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS-SECTIONS  
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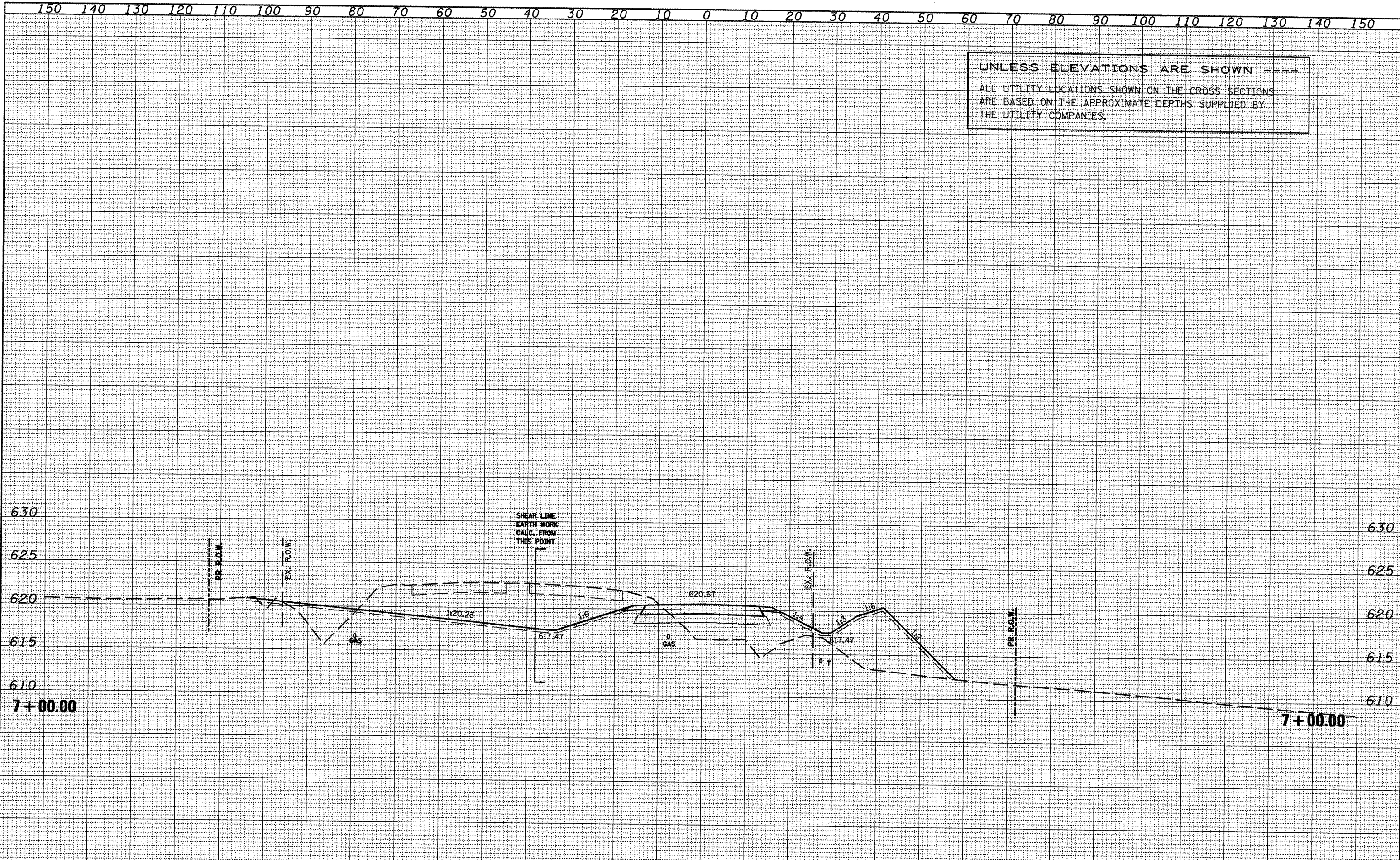
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UNLESS ELEVATIONS ARE SHOWN ----  
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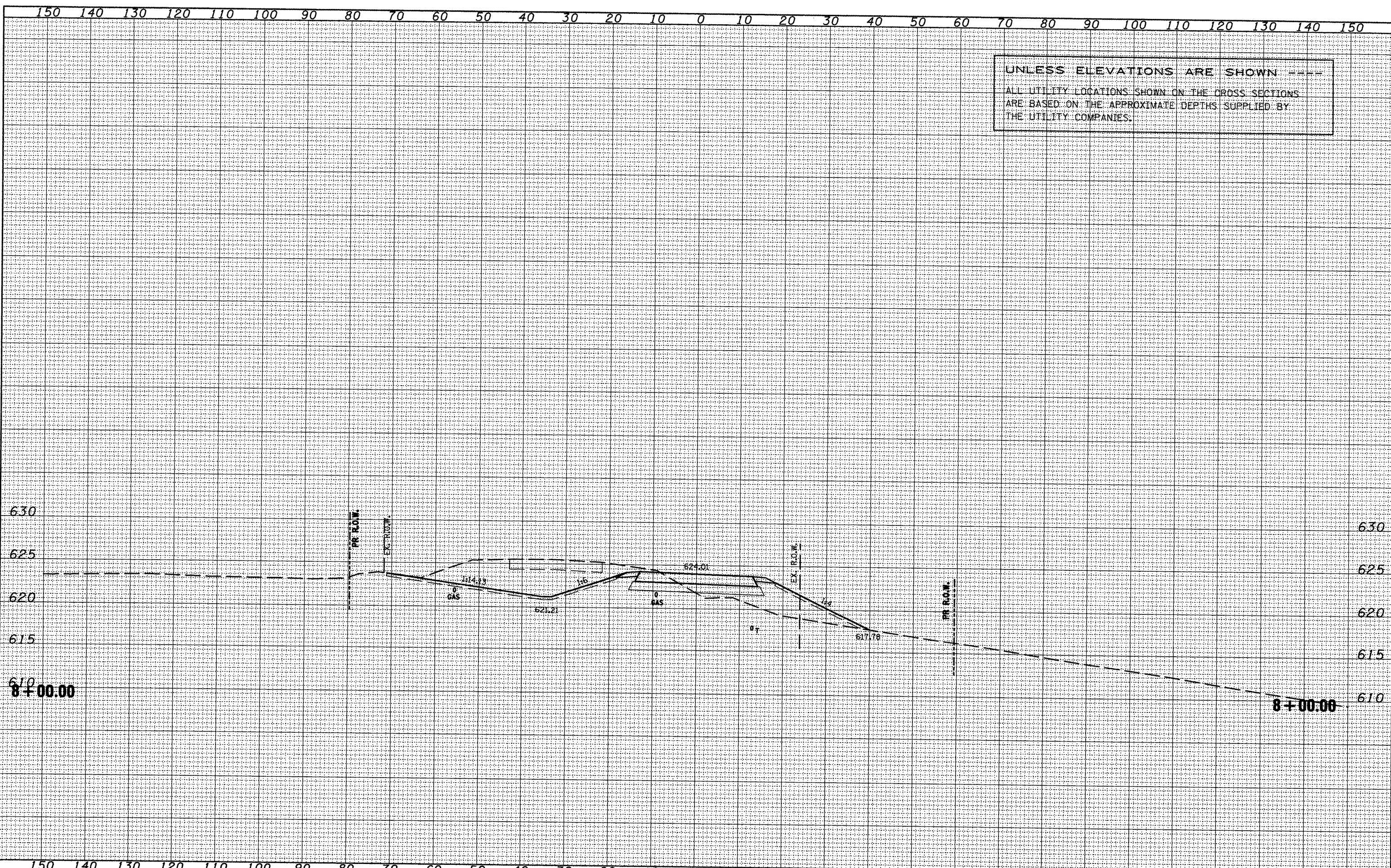
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PLLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	665			(136,137)W&RS-3;109BR-2	HENDERSON	260		
PLLOT DATE = 1/21/2009	DATE -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 7+00.00 TO STA. 7+00.00			CONTRACT NO. 88773				
						ILLINOIS FED. AID PROJECT				



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UNLESS ELEVATIONS ARE SHOWN ---  
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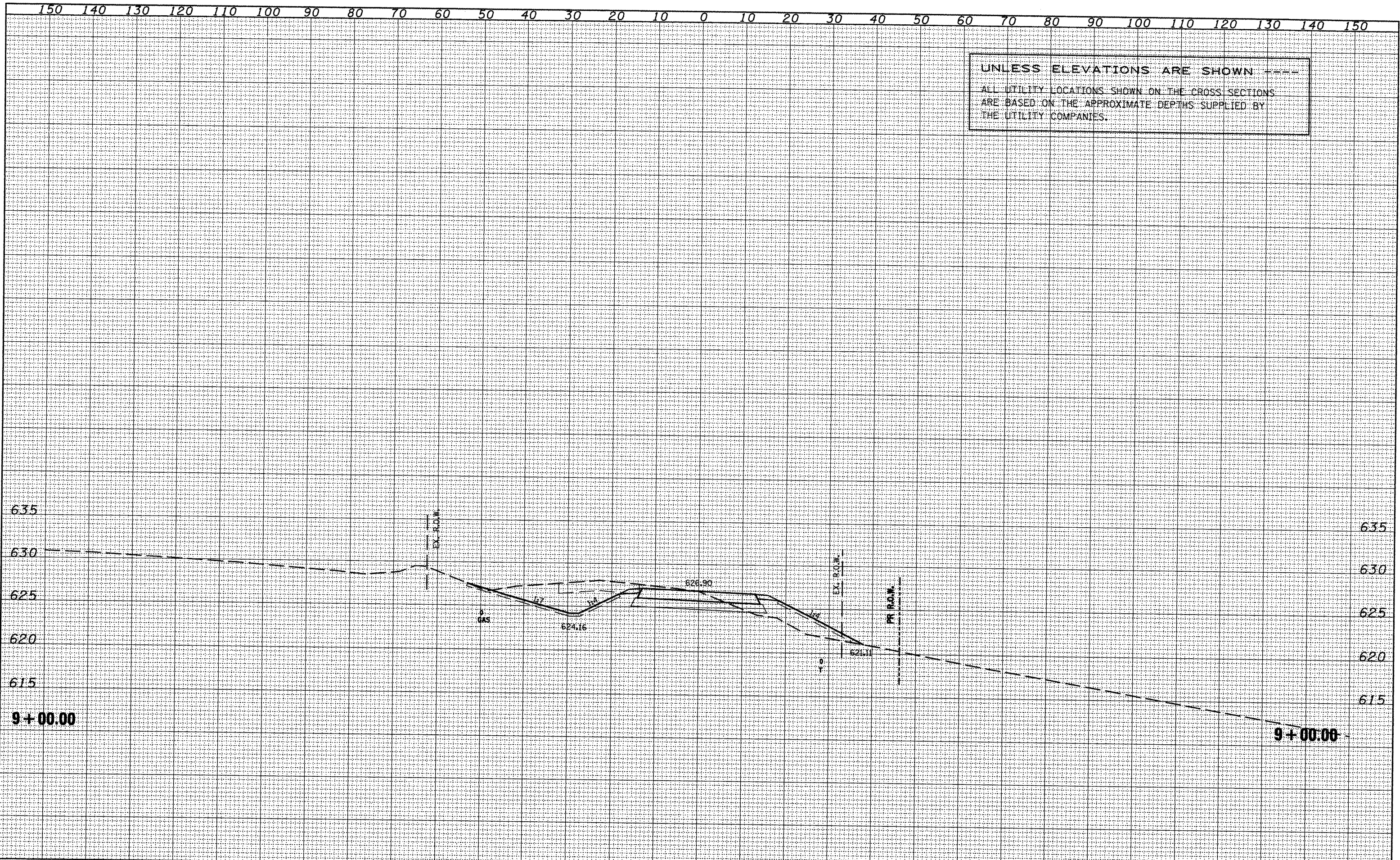
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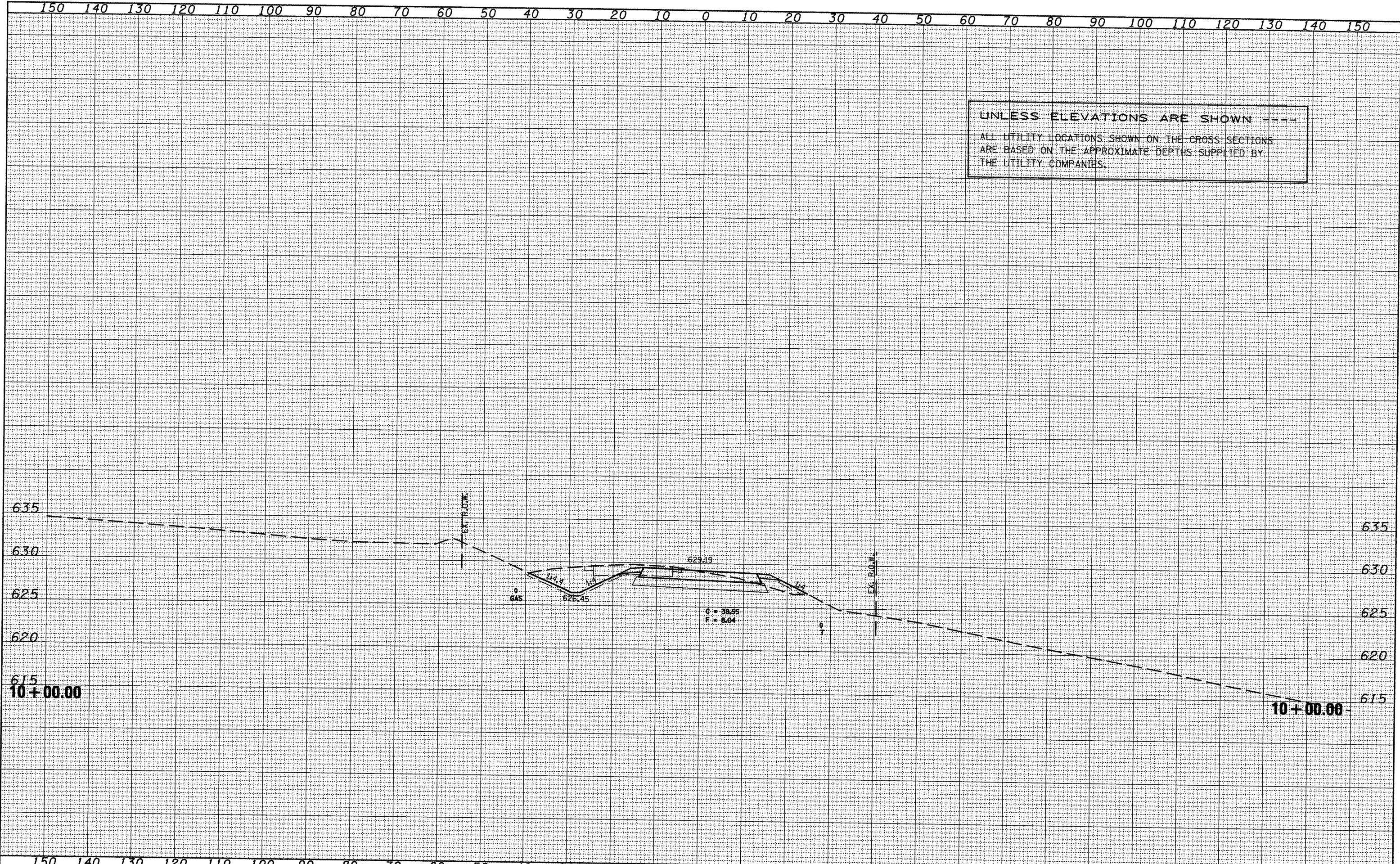
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 116 - TEE CONNECTOR**

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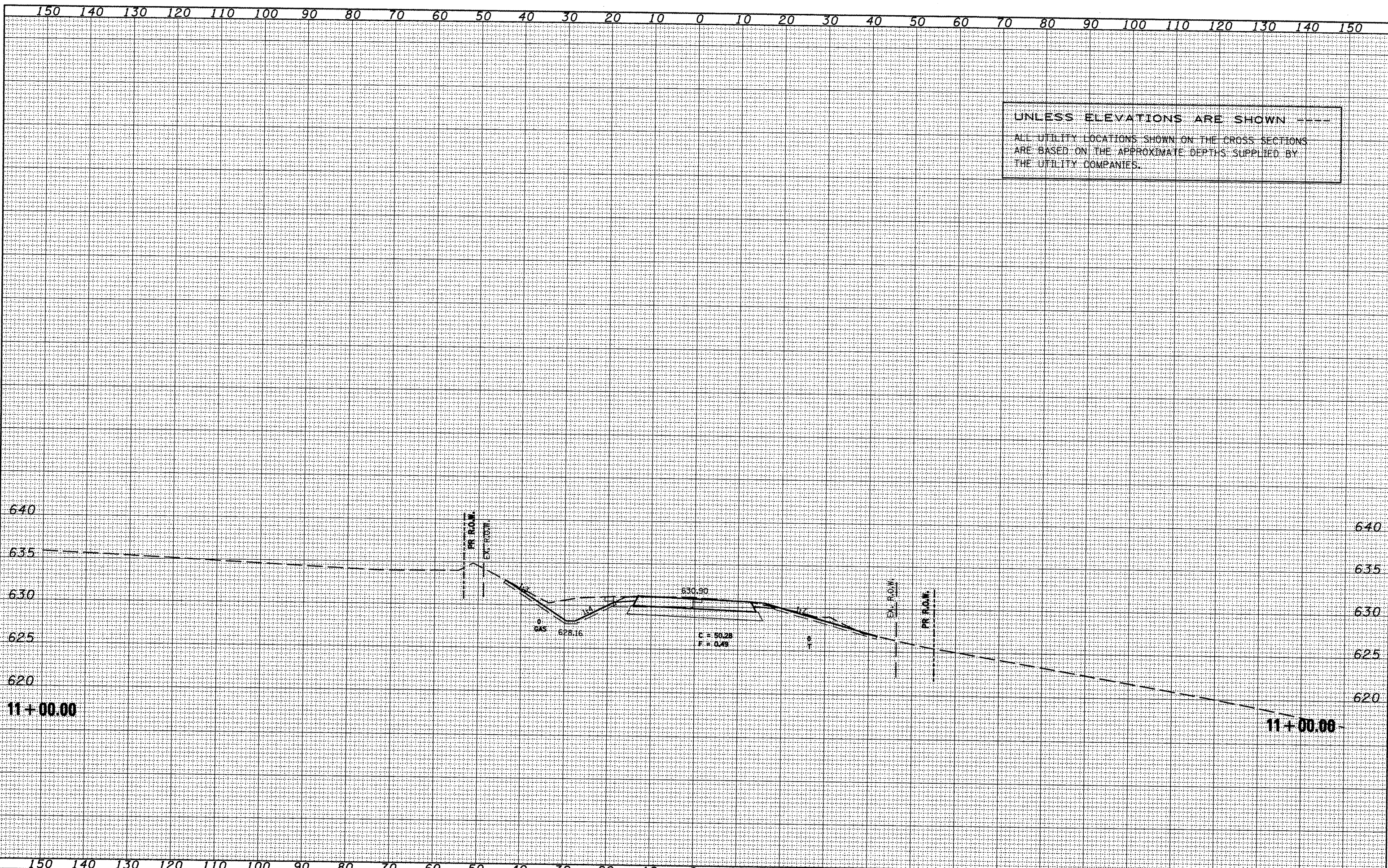
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CONTRACT NO. 88773			ILLINOIS FED. AID PROJECT	



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UNLESS ELEVATIONS ARE SHOWN ---  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - TEE CONNECTOR  
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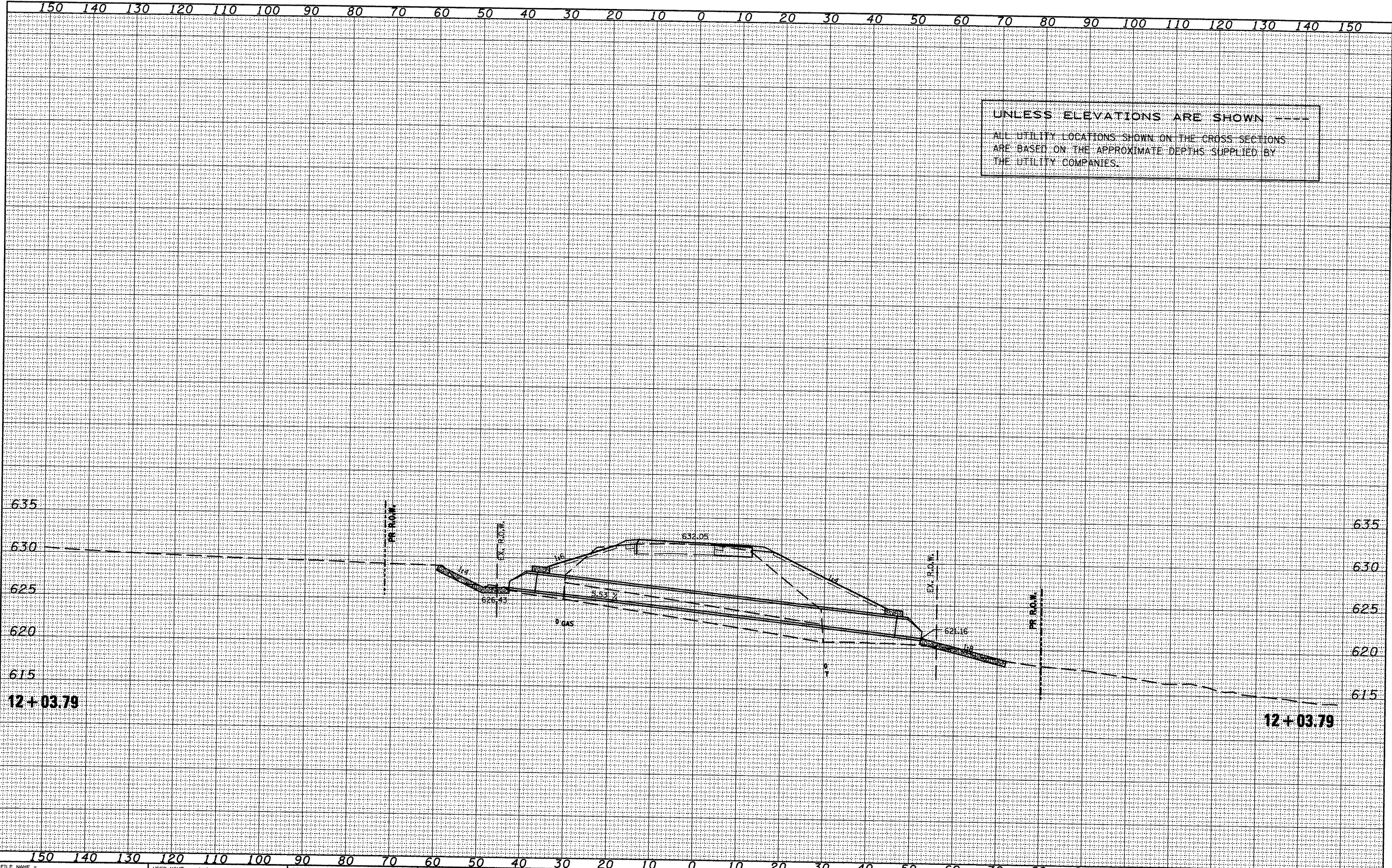
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				CONTRACT NO. 88773



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UNLESS ELEVATIONS ARE SHOWN  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - TEE CONNECTOR  
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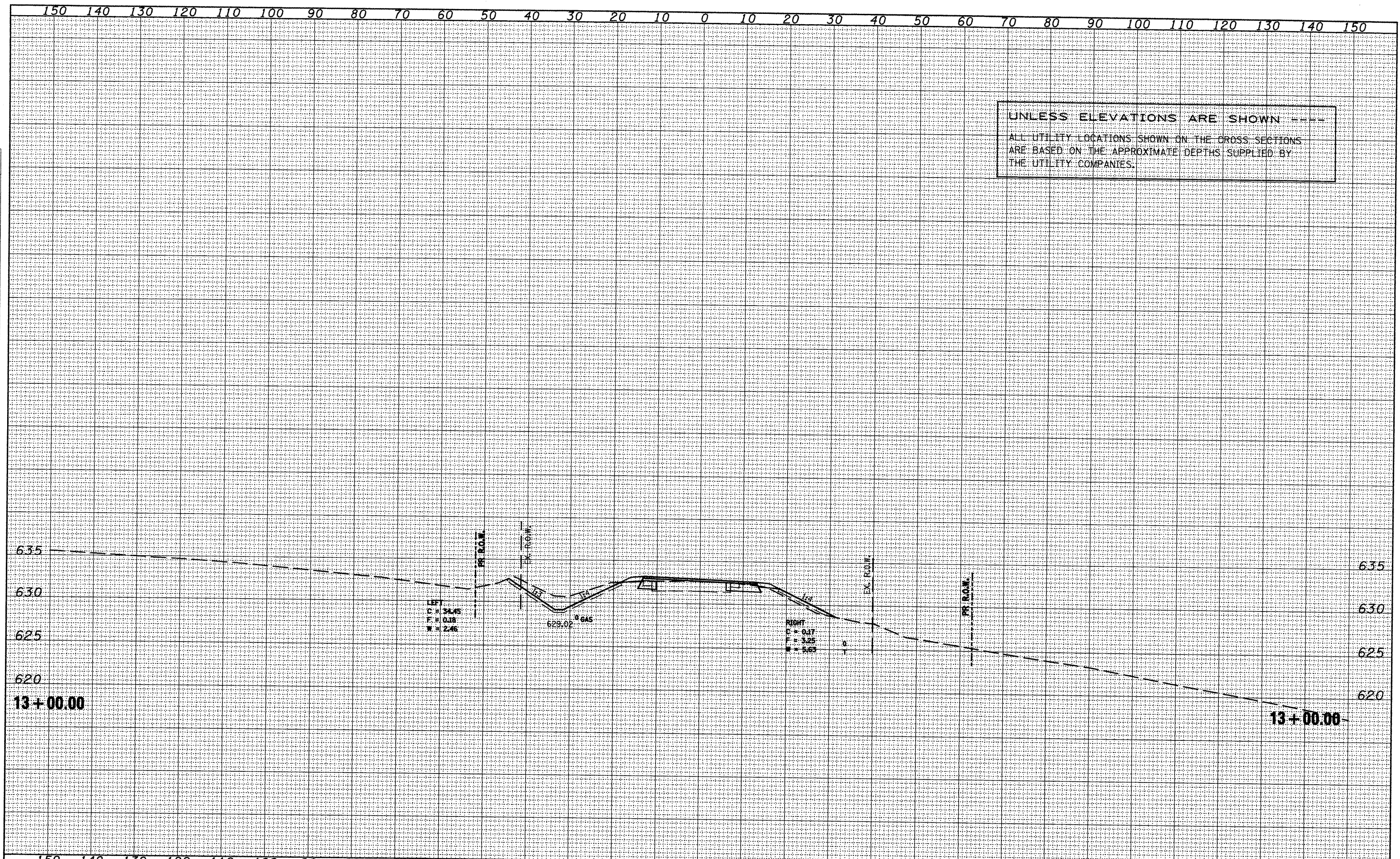
F. & A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3109BR-2	HENDERSON	265	265
CONTRACT NO. 88773				



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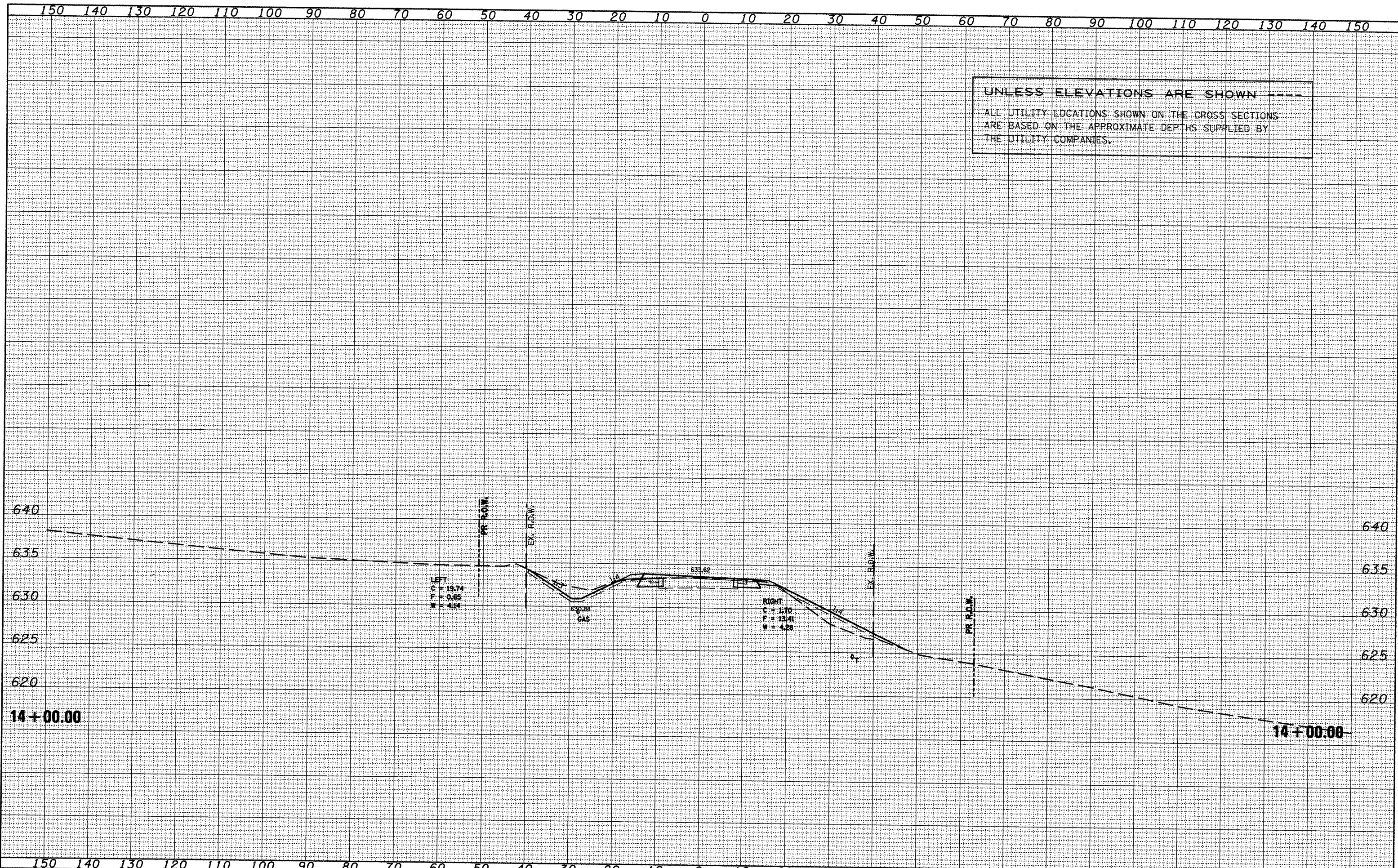
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UNLESS ELEVATIONS ARE SHOWN ---  
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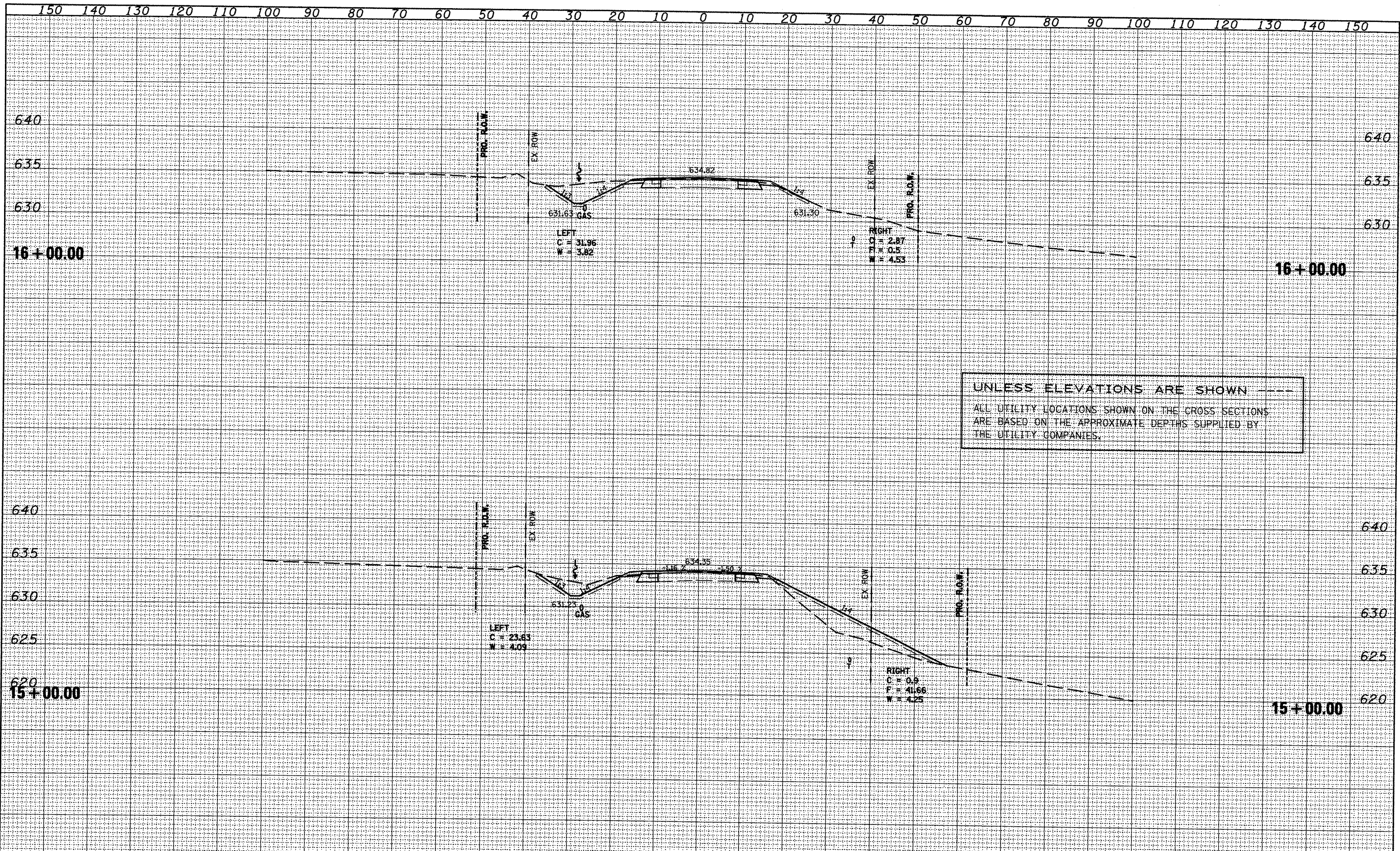
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PLLOT DATE =	1/21/2009

STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
IL 116 - MAINLINE	SECTION 665 (136,137)W&RS-3;109BR-2
COUNTY HENDERSON	TOTAL SHEETS 268
CONTRACT NO. 88773	

SCALE:	SHEET NO. OF SHEETS	STA. 15+00.00 TO STA. 16+00.00
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ILLINOIS FED. AID PROJECT
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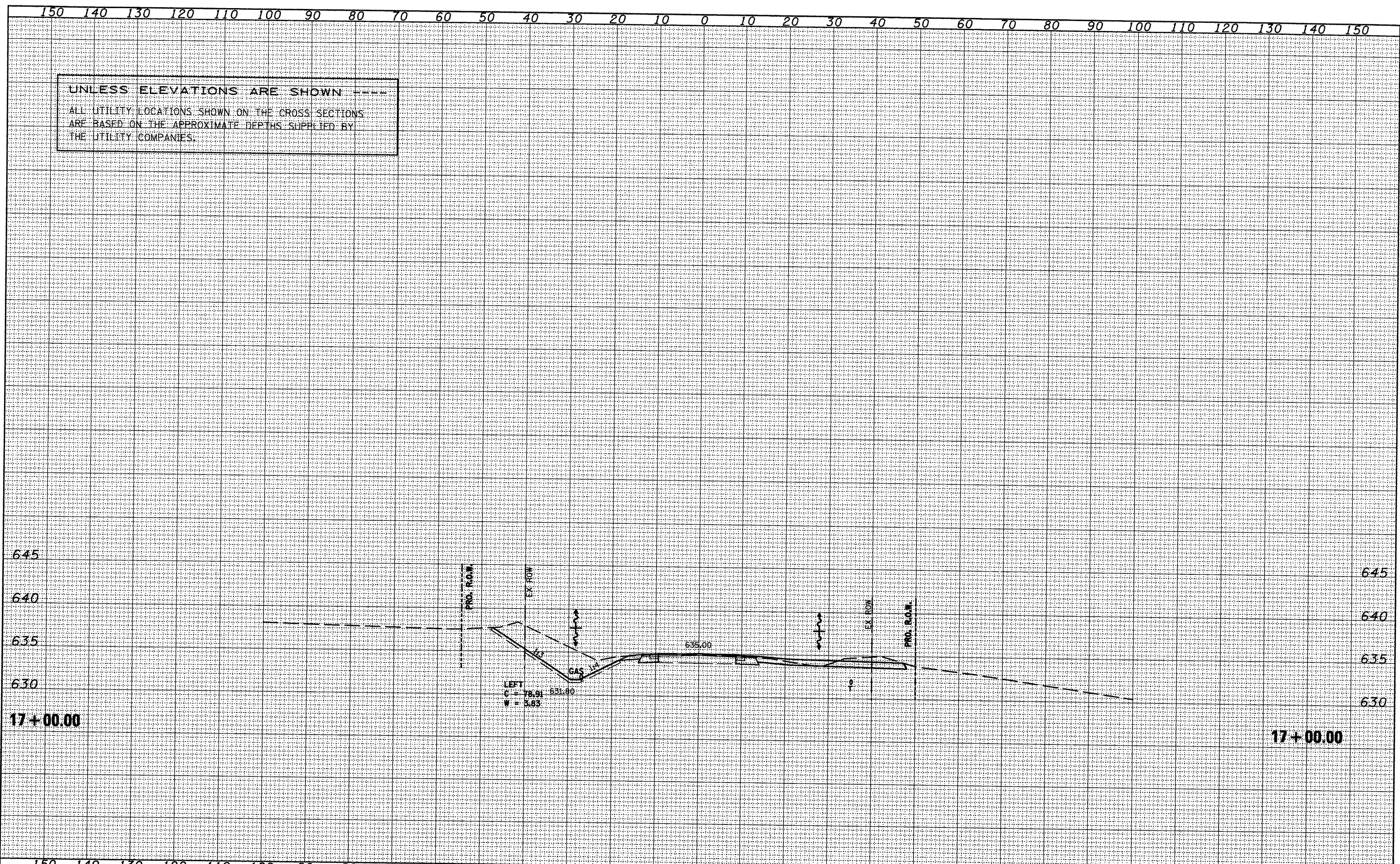
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ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
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FINAL SURVEY	DESIGNED	DATE
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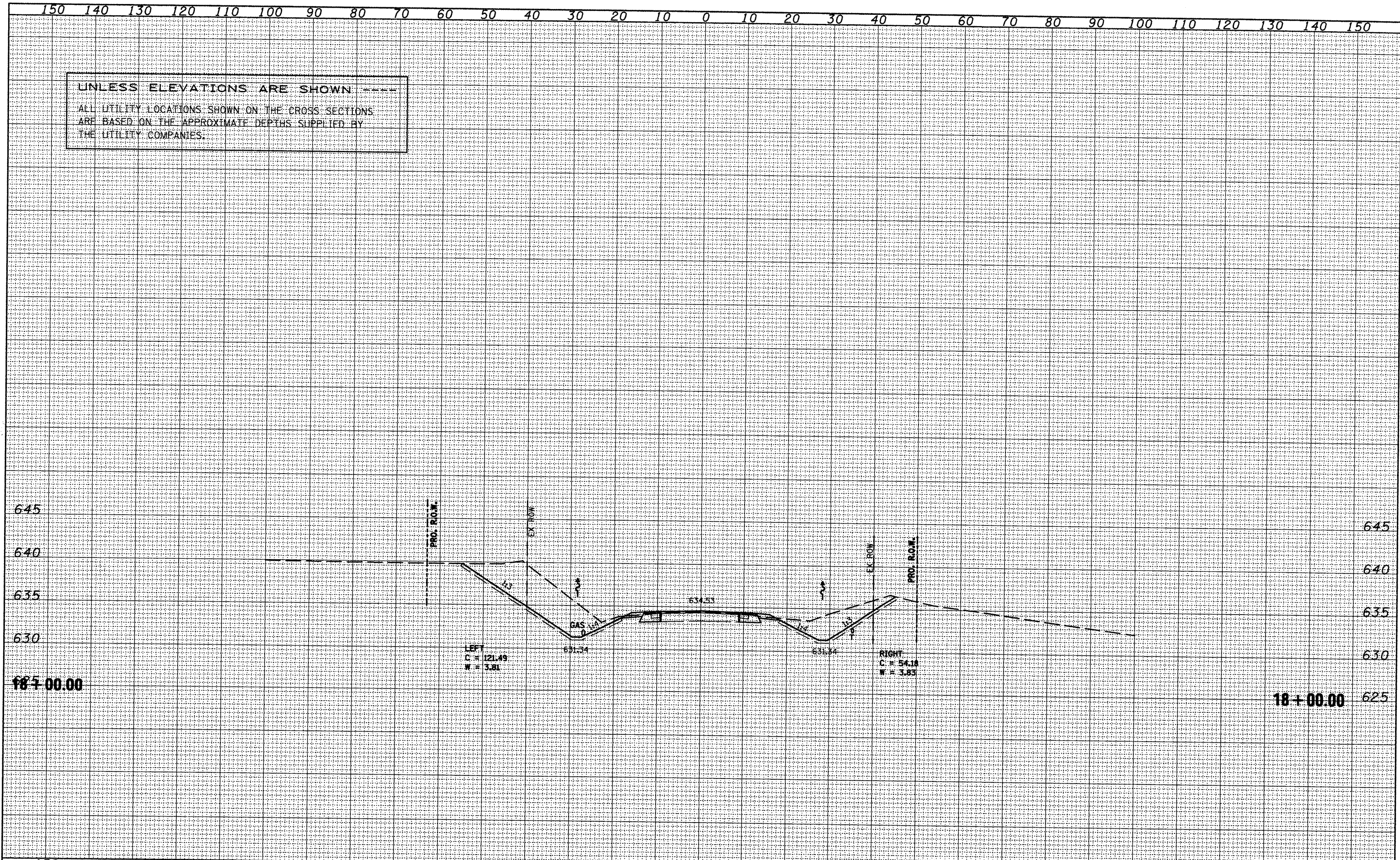




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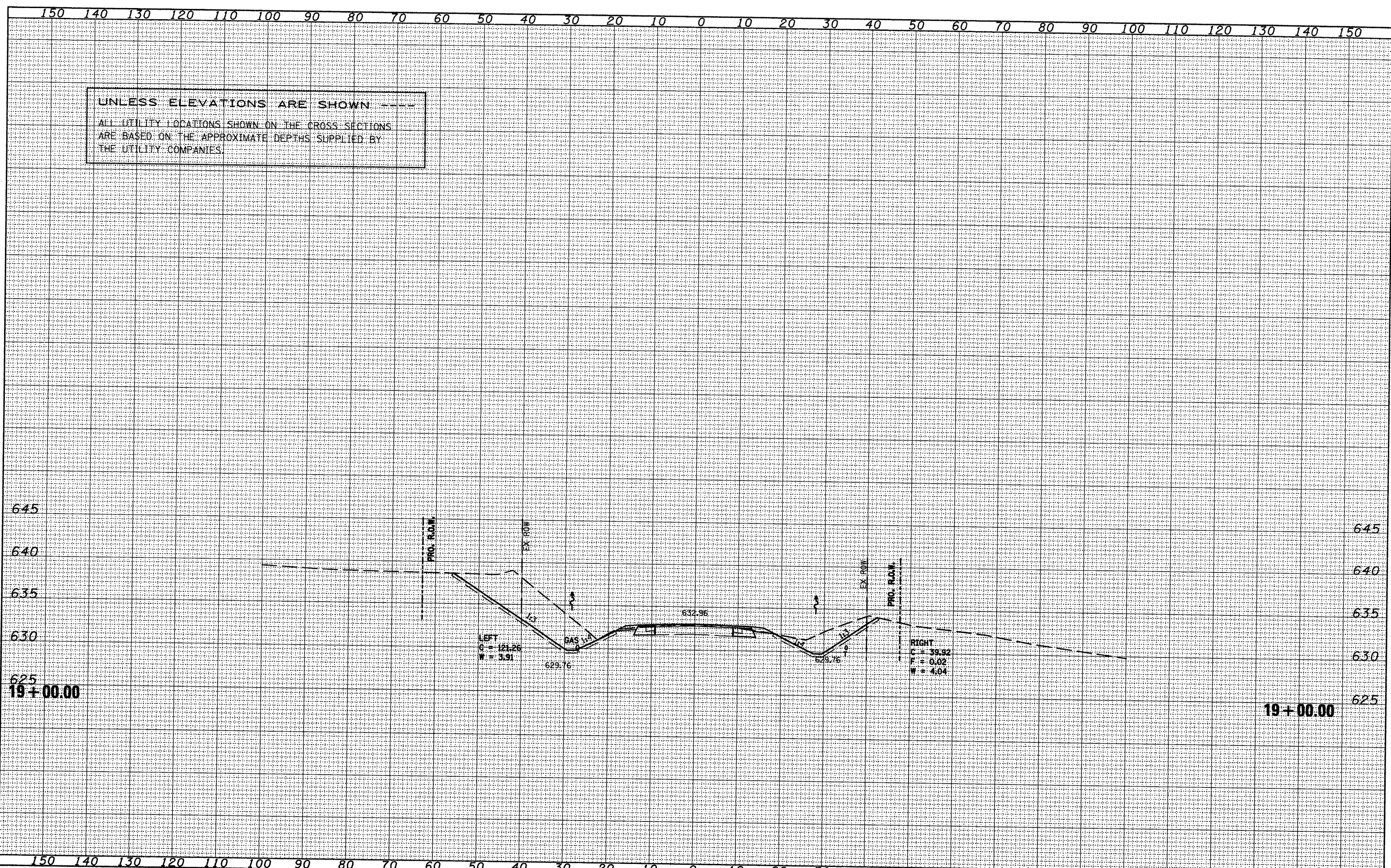
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	PLDT DATE = 1/21/2009	CHECKED -	REVISED -								
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



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 USER NAME = ghidneam  
 PLOT SCALE = 20.0000' / IN.  
 PLOT DATE = 1/21/2009

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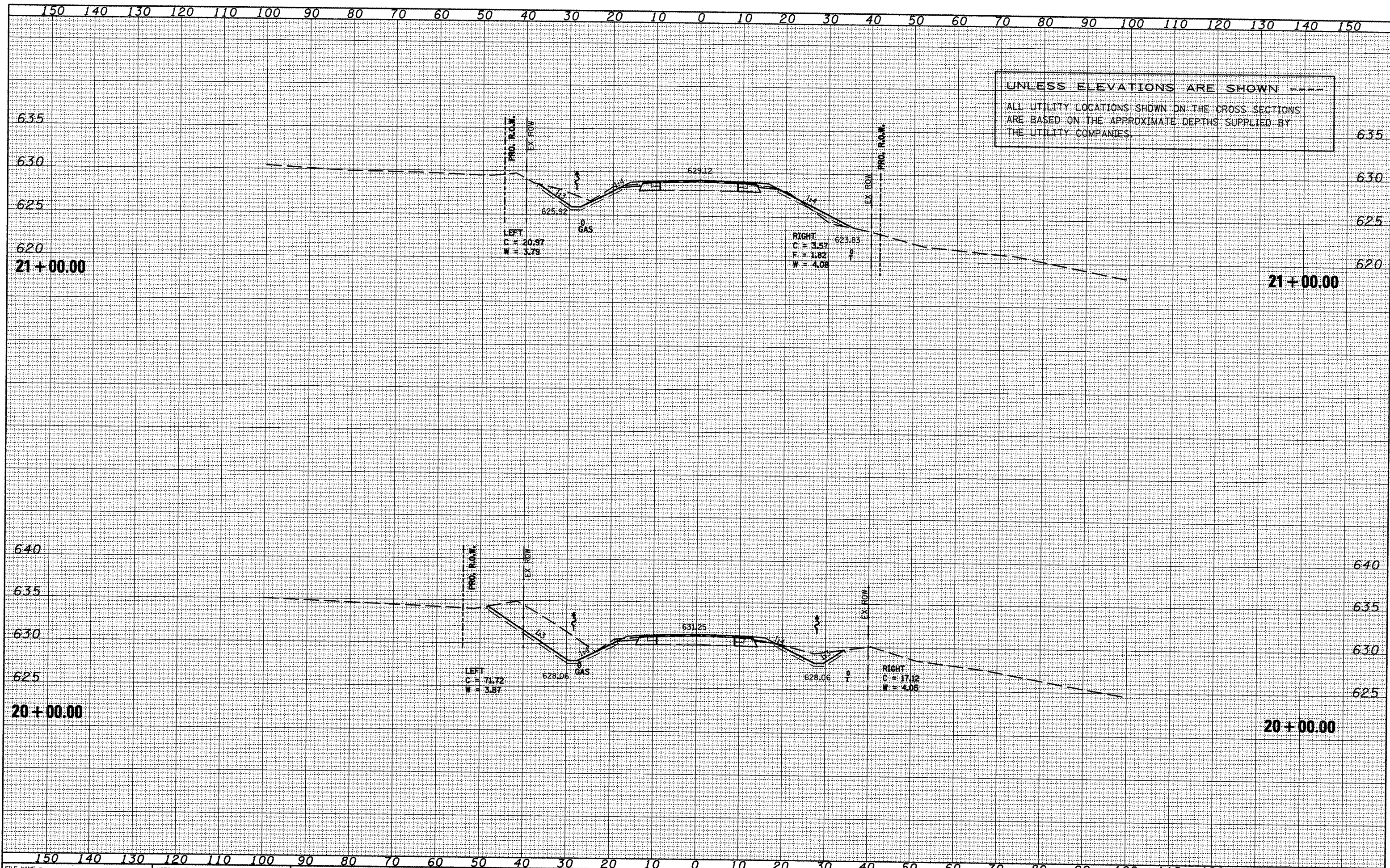
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - MAINLINE

SCALE: SHEET NO. OF SHEETS STA. 20+00.00 TO STA. 21+00.00

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3109BR-2	HENDERSON		272
				CONTRACT NO. 88773

ILLINOIS FED. AID PROJECT

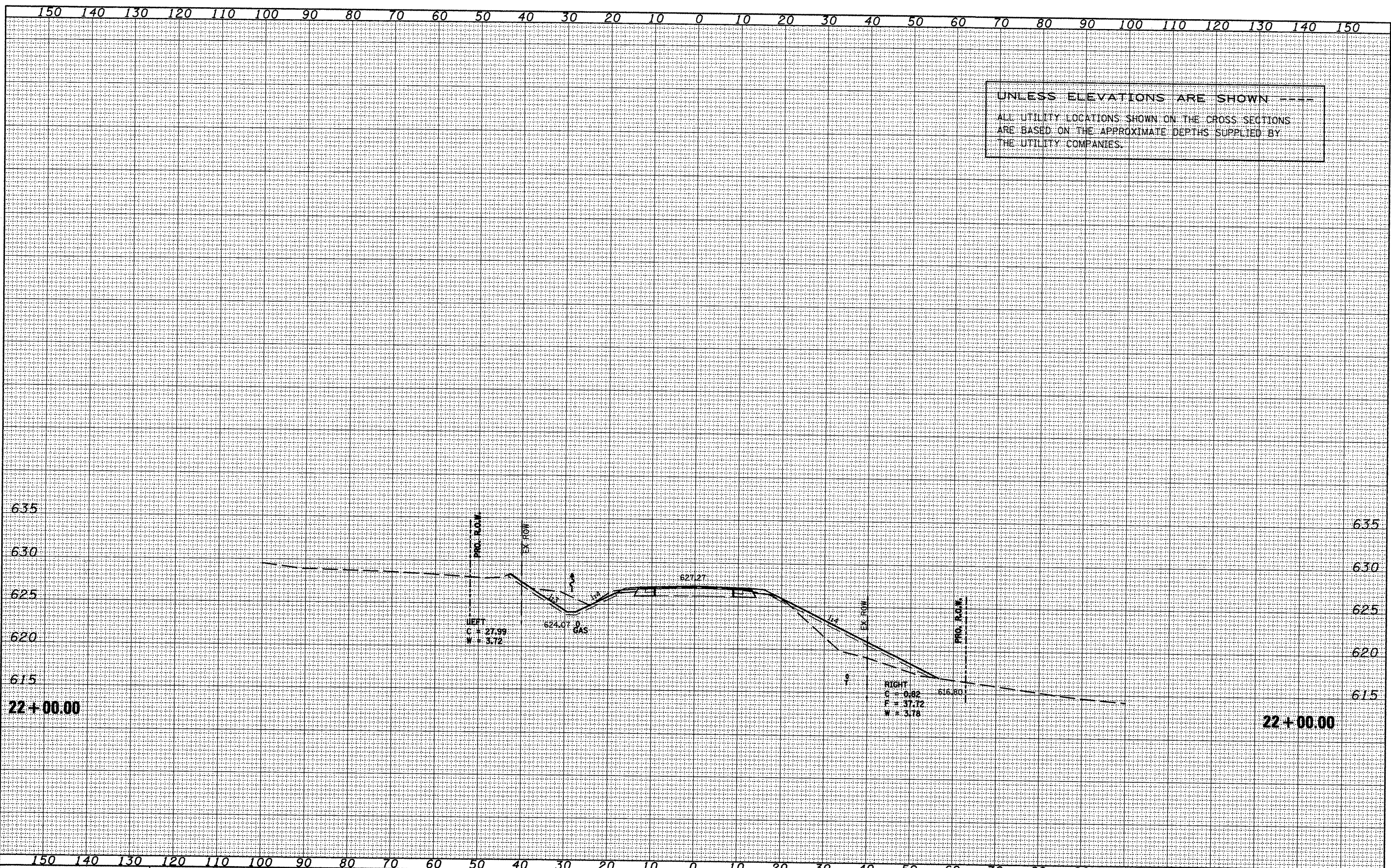




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ORIGINAL SURVEY	SURVEYED	DATE
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UNLESS ELEVATIONS ARE SHOWN ---  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
 THE UTILITY COMPANIES.

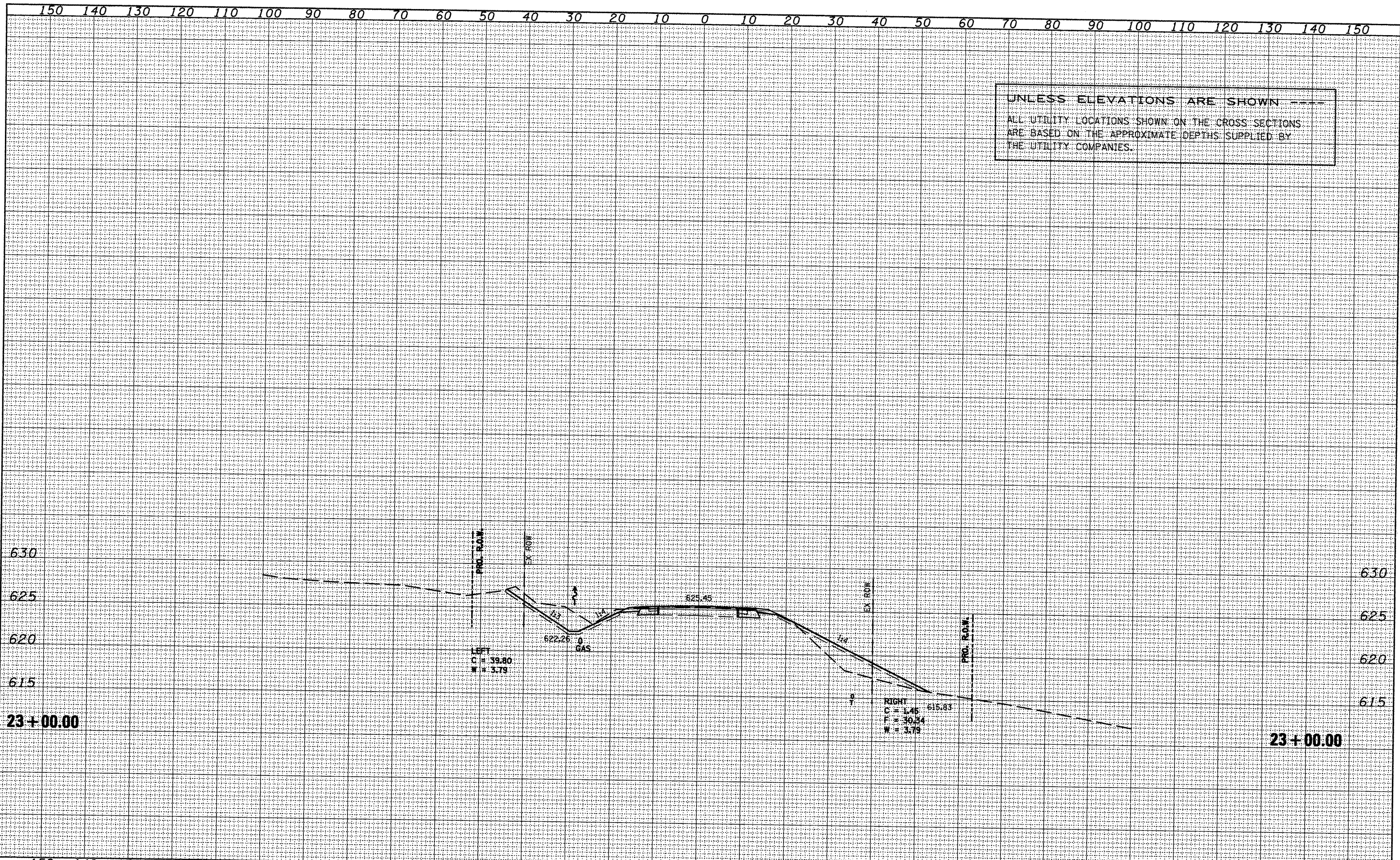




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UNLESS ELEVATIONS ARE SHOWN  
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 THE UTILITY COMPANIES.

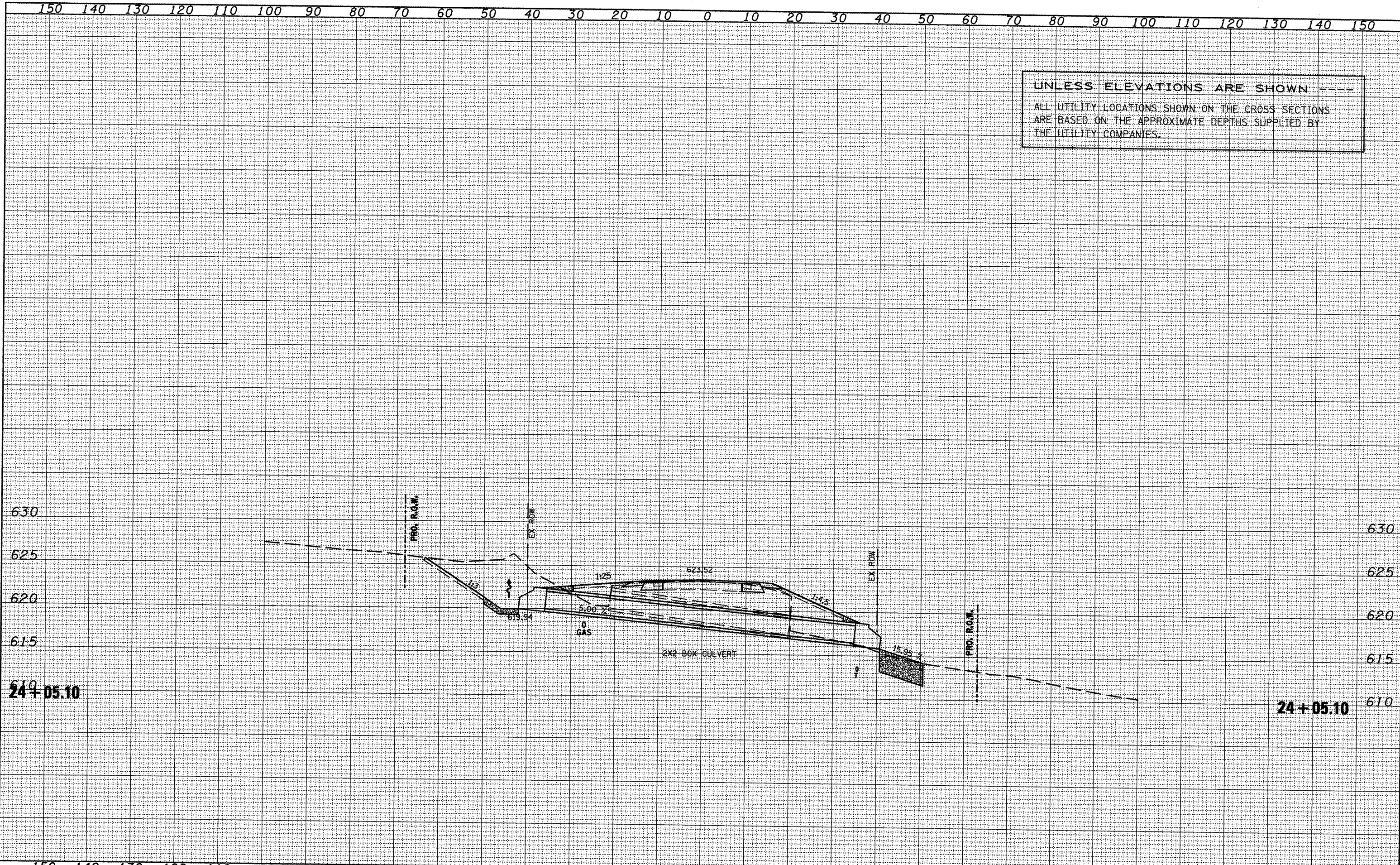




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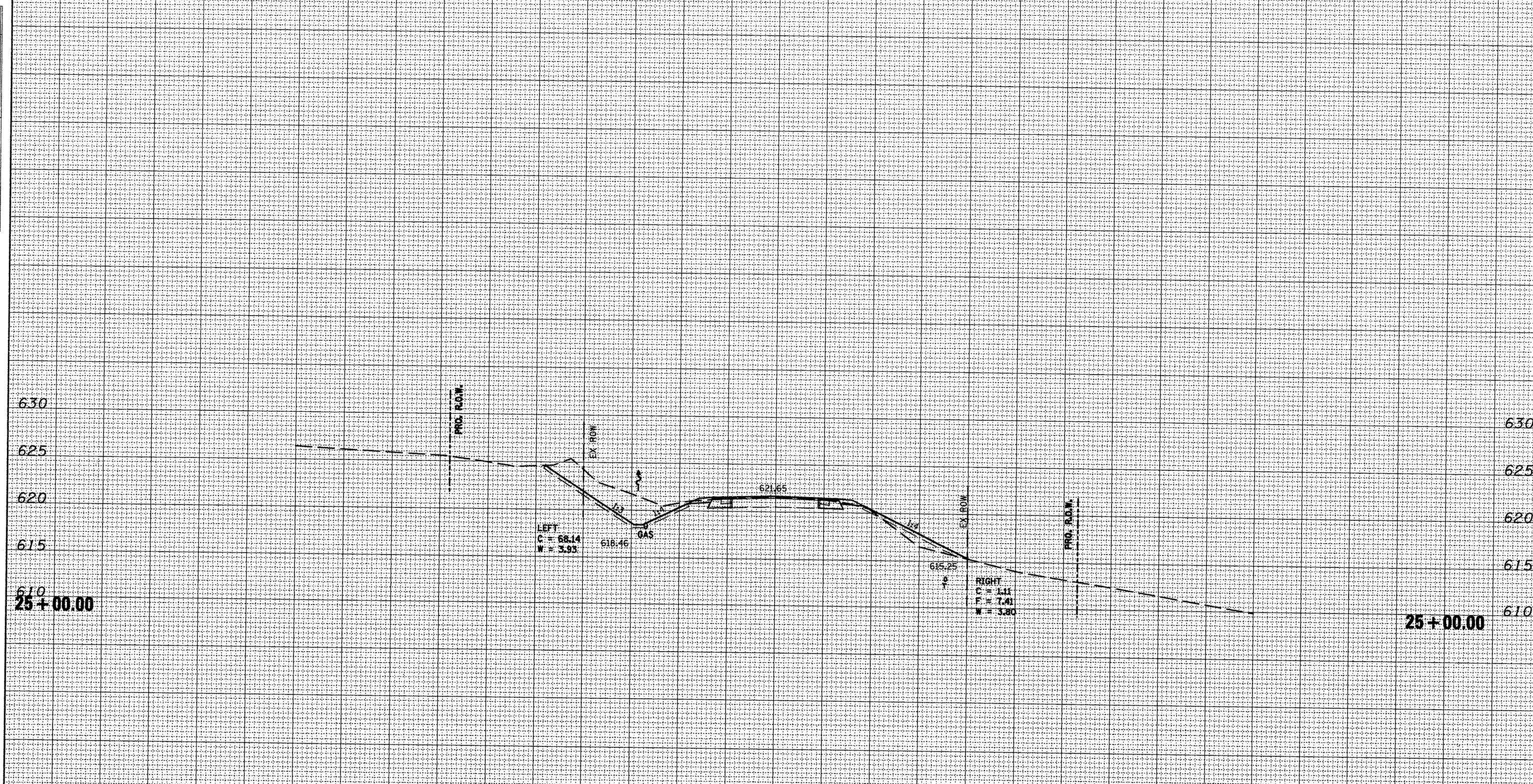
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UNLESS ELEVATIONS ARE SHOWN ----  
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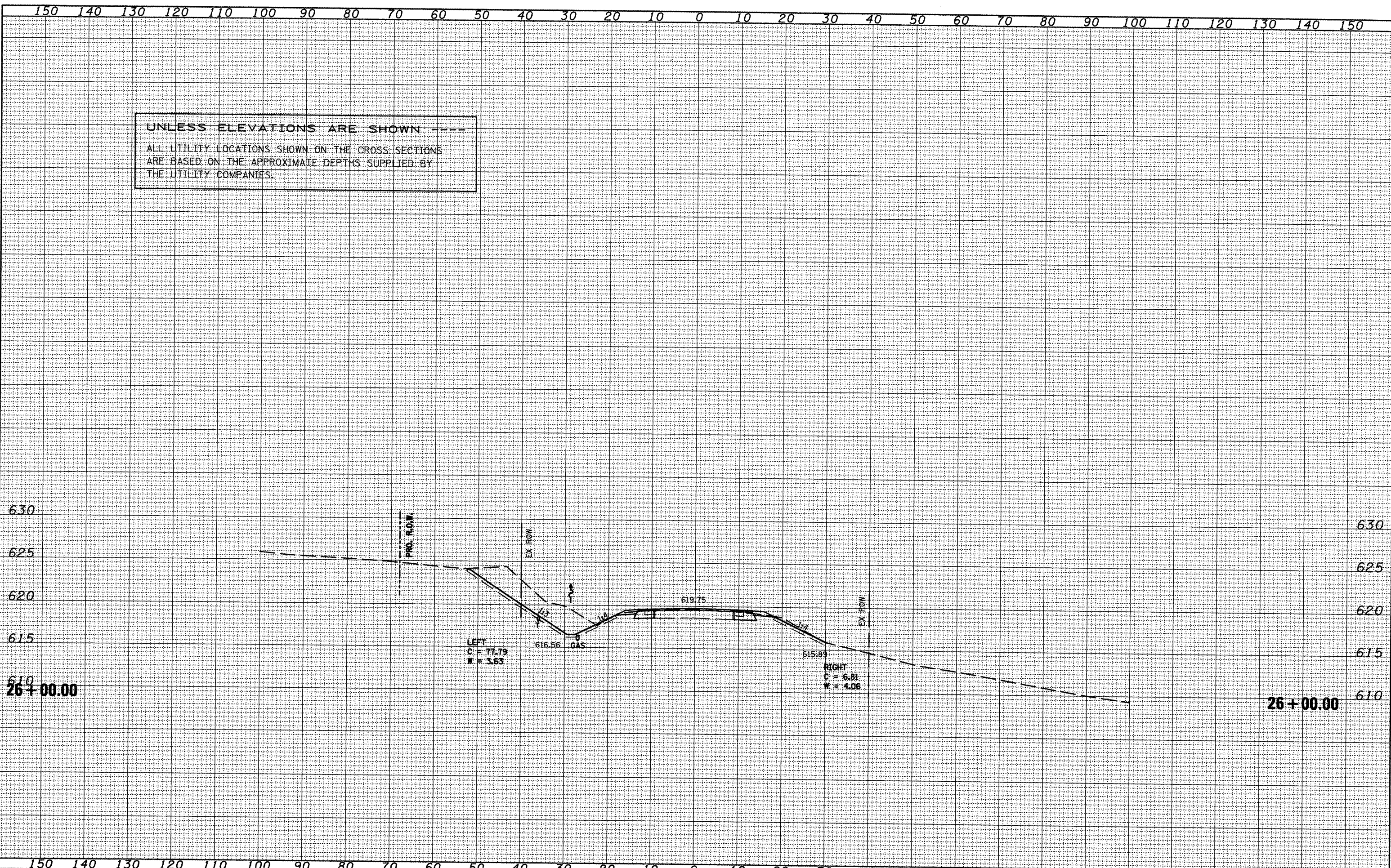
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PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -	776									276	
PLOT DATE = 1/21/2009	CHECKED -	REVISED -	CONTRACT NO. 88773										
DATE -	REVISED -	ILLINOIS FED. AID PROJECT											

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UNLESS ELEVATIONS ARE SHOWN ---  
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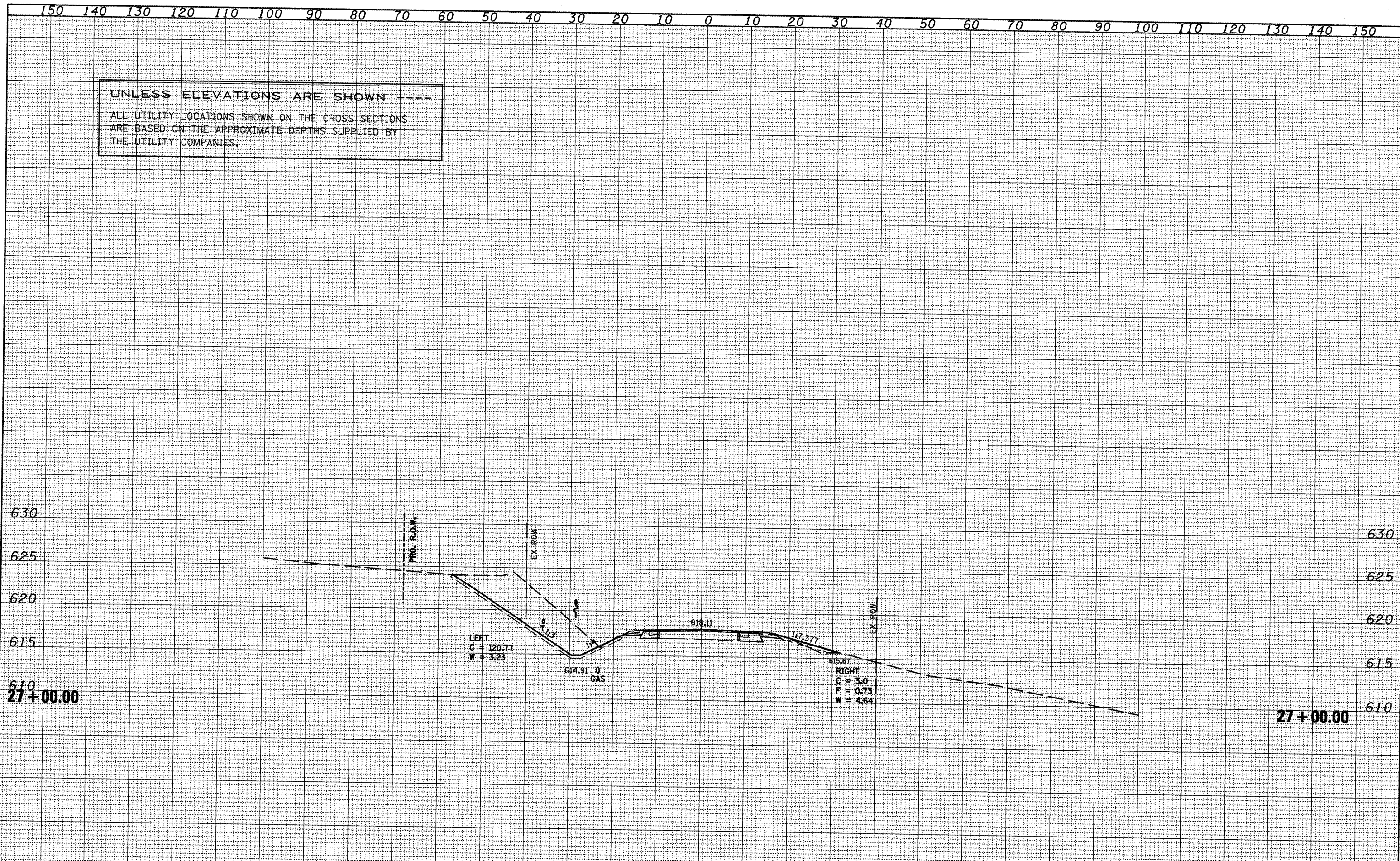


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UNLESS ELEVATIONS ARE SHOWN  
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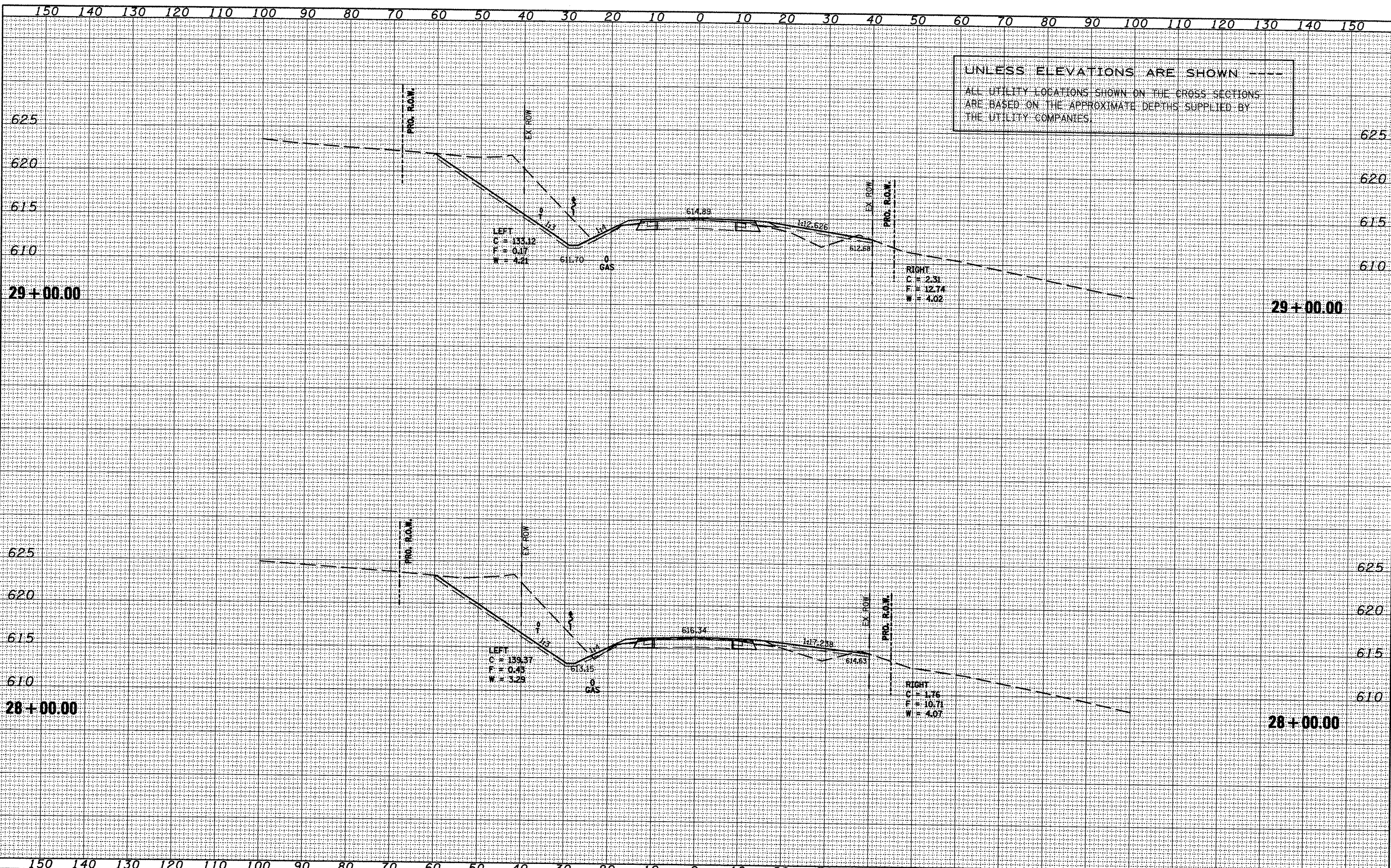
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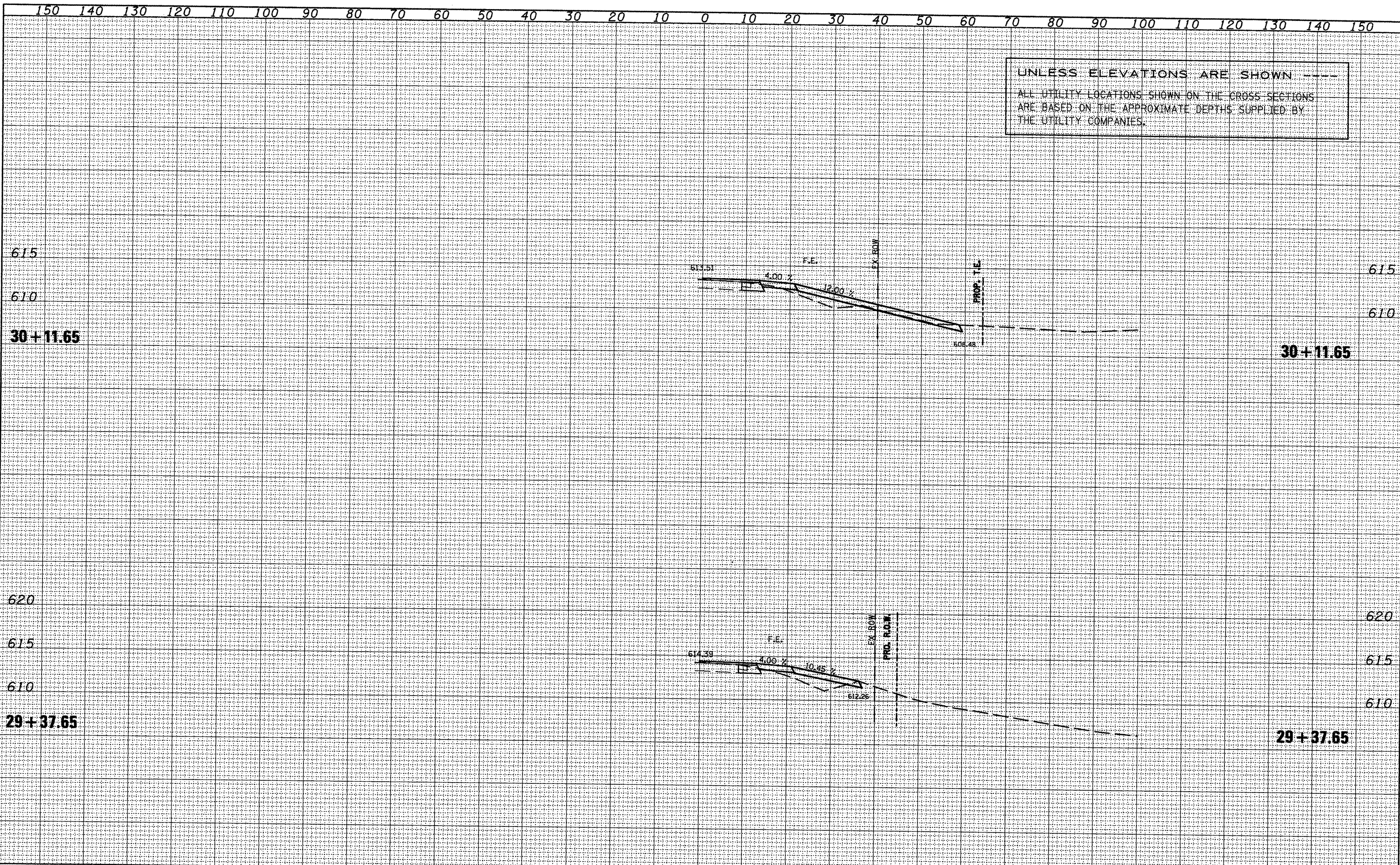
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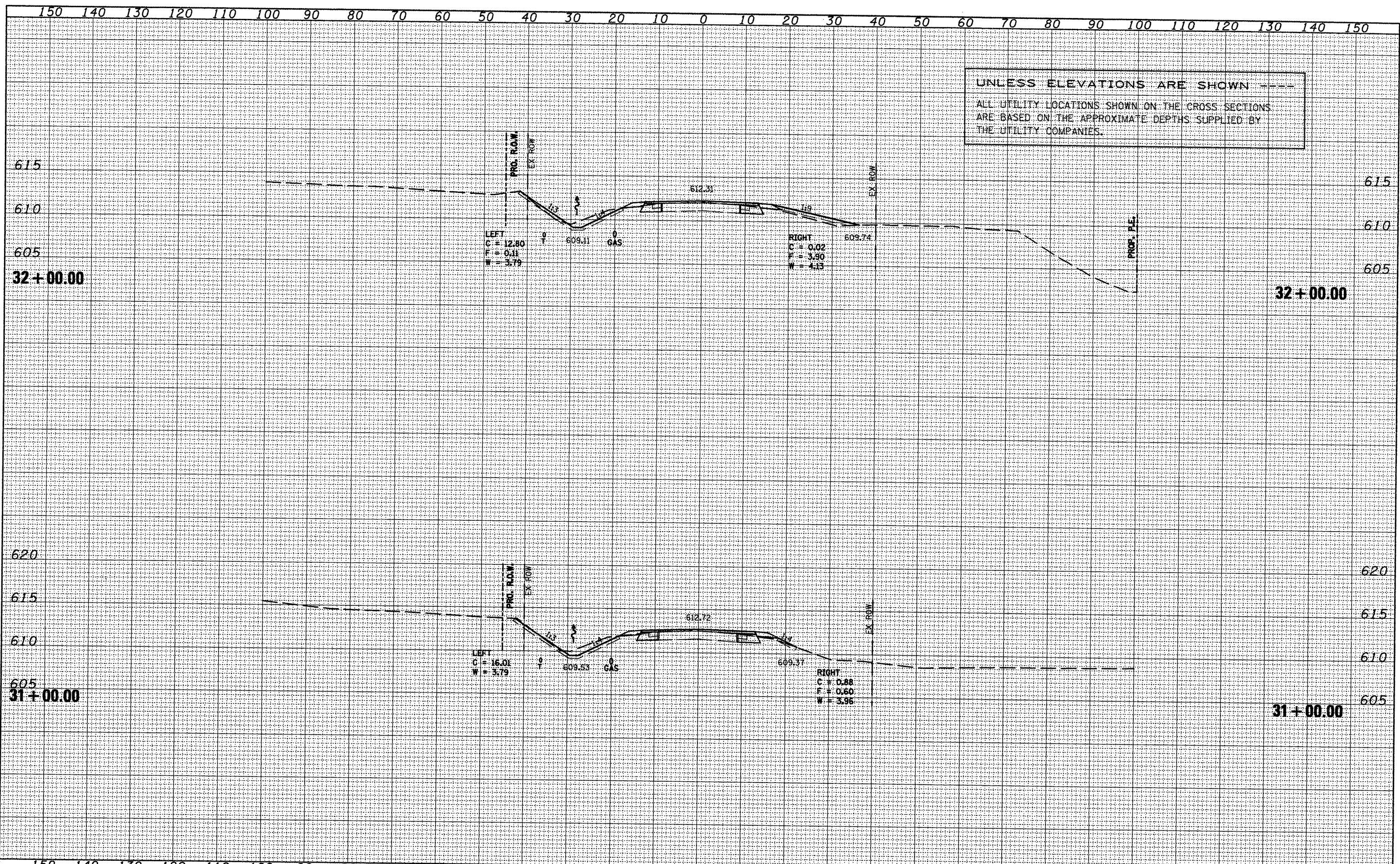


UNLESS ELEVATIONS ARE SHOWN ---  
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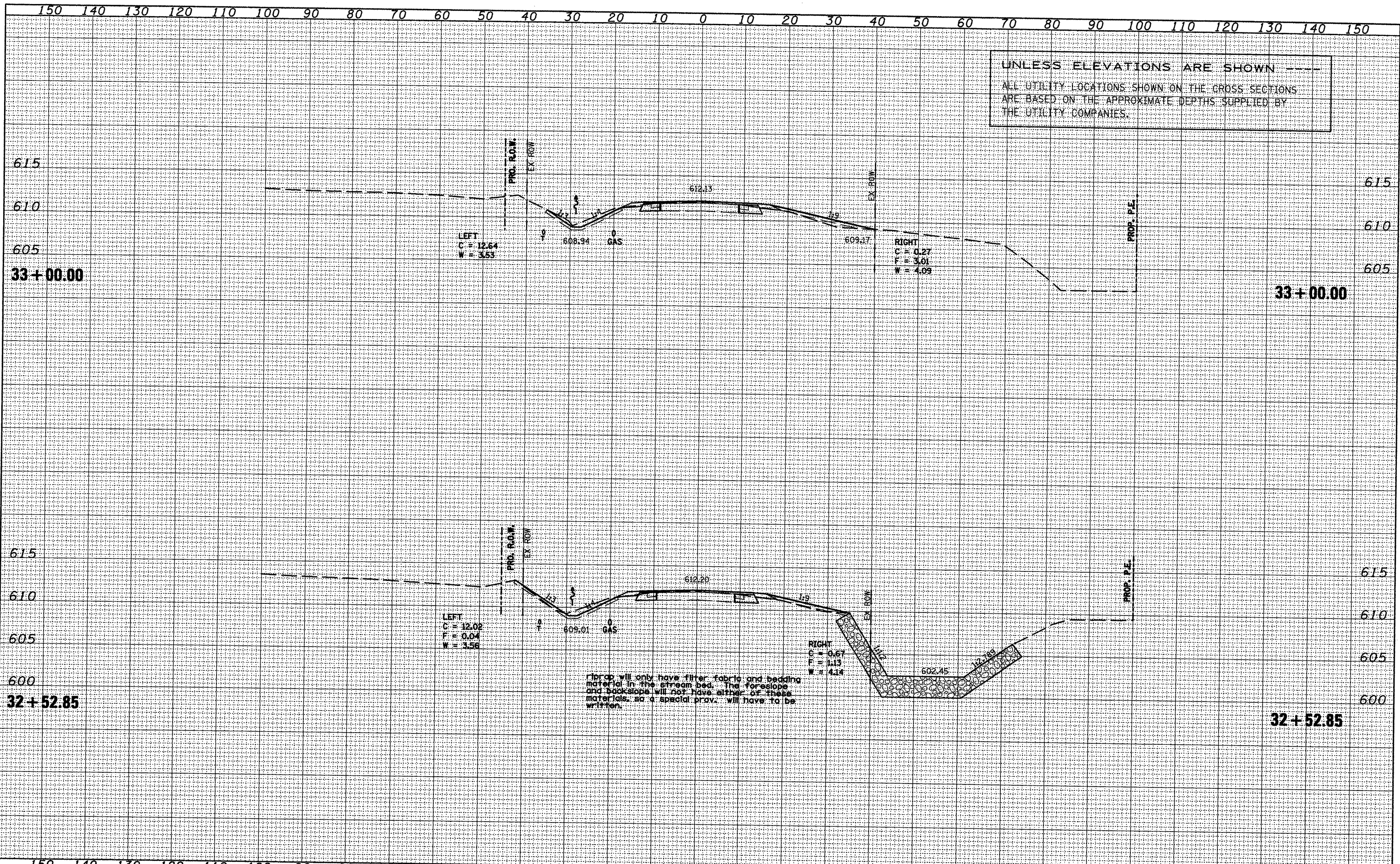
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ORIGINAL SURVEY	SURVEYED	DATE
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 THE UTILITY COMPANIES.



LEFT  
 C = 12.64  
 W = 3.53

RIGHT  
 C = 0.27  
 F = 3.01  
 W = 4.09

LEFT  
 C = 12.02  
 F = 0.04  
 W = 3.56

RIGHT  
 C = 0.67  
 F = 1.13  
 W = 4.14

Grasp will only have filter fabric and bedding material in the stream bed. The foreslope and backslope will not have either of these materials, so a special prov. will have to be written.

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FILE NAME = xsectsheet.dgn  
 USER NAME = ghidrean

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CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

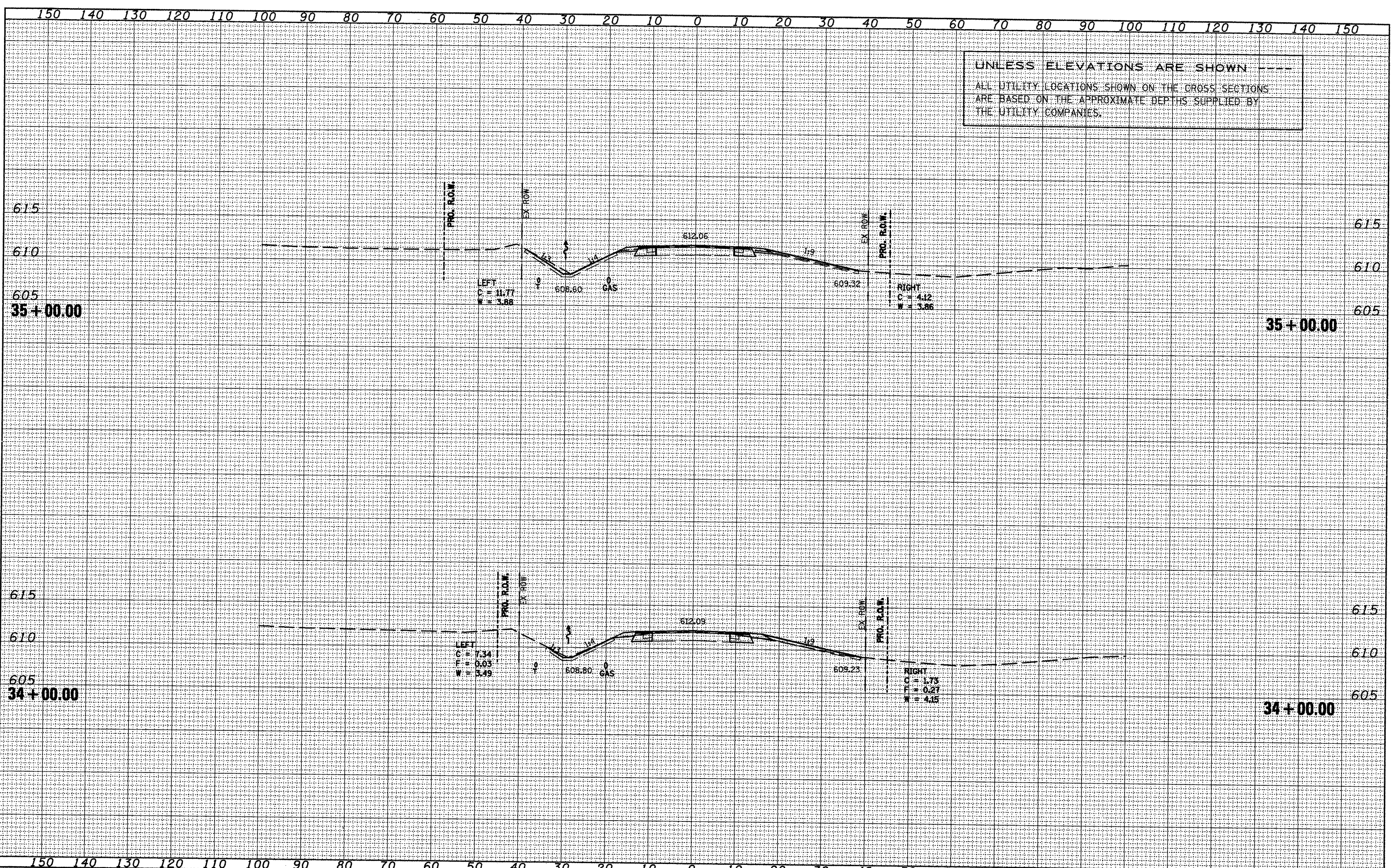
IL 116 - MAINLINE  
 SCALE: SHEET NO. OF SHEETS STA. 32+52.85 TO STA. 33+00.00

F. EAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3-109BR-2	HENDERSON	262	262
				CONTRACT NO. 88773

ILLINOIS FED. AID PROJECT



UNLESS ELEVATIONS ARE SHOWN ----  
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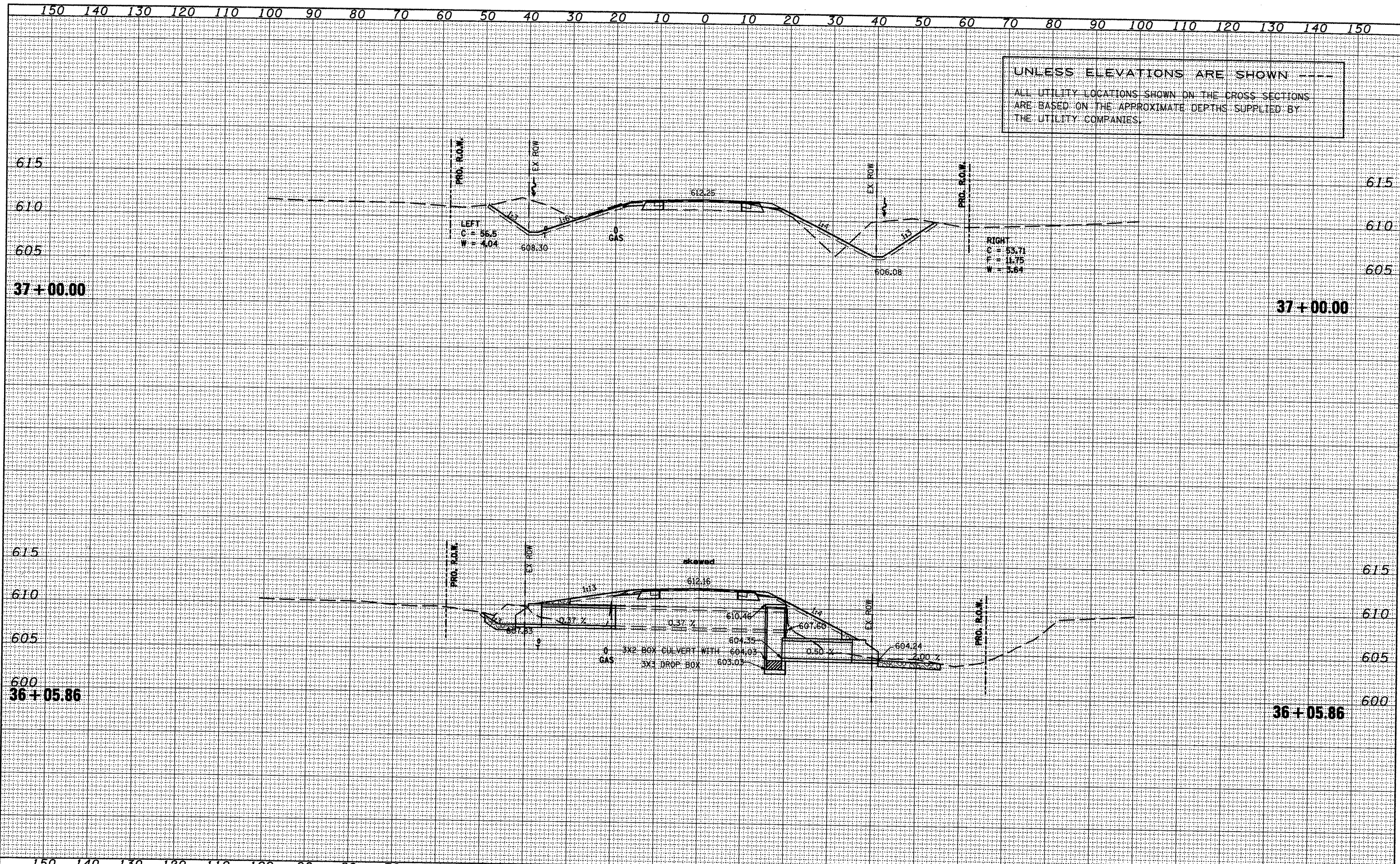
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ORIGINAL SURVEY	
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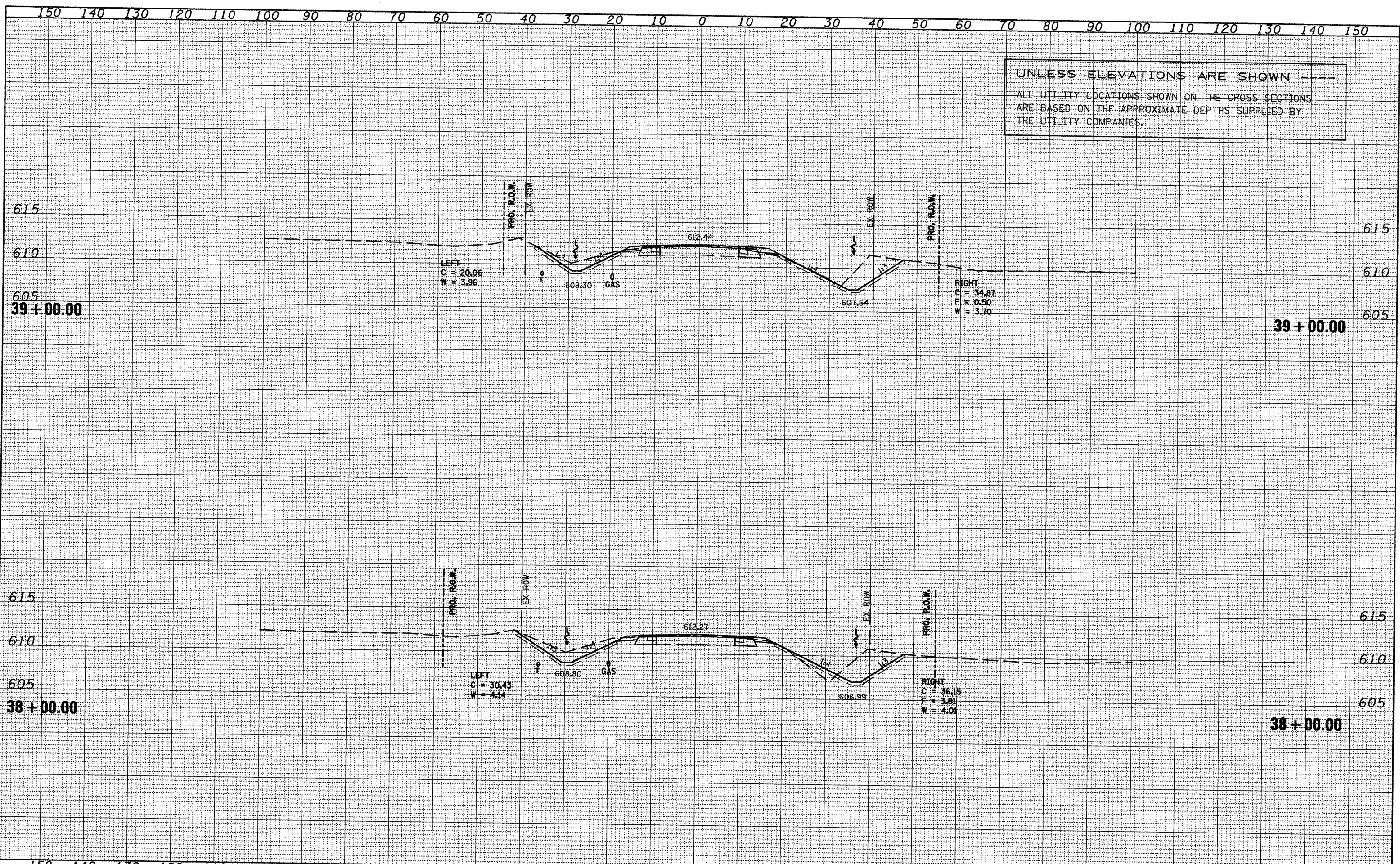
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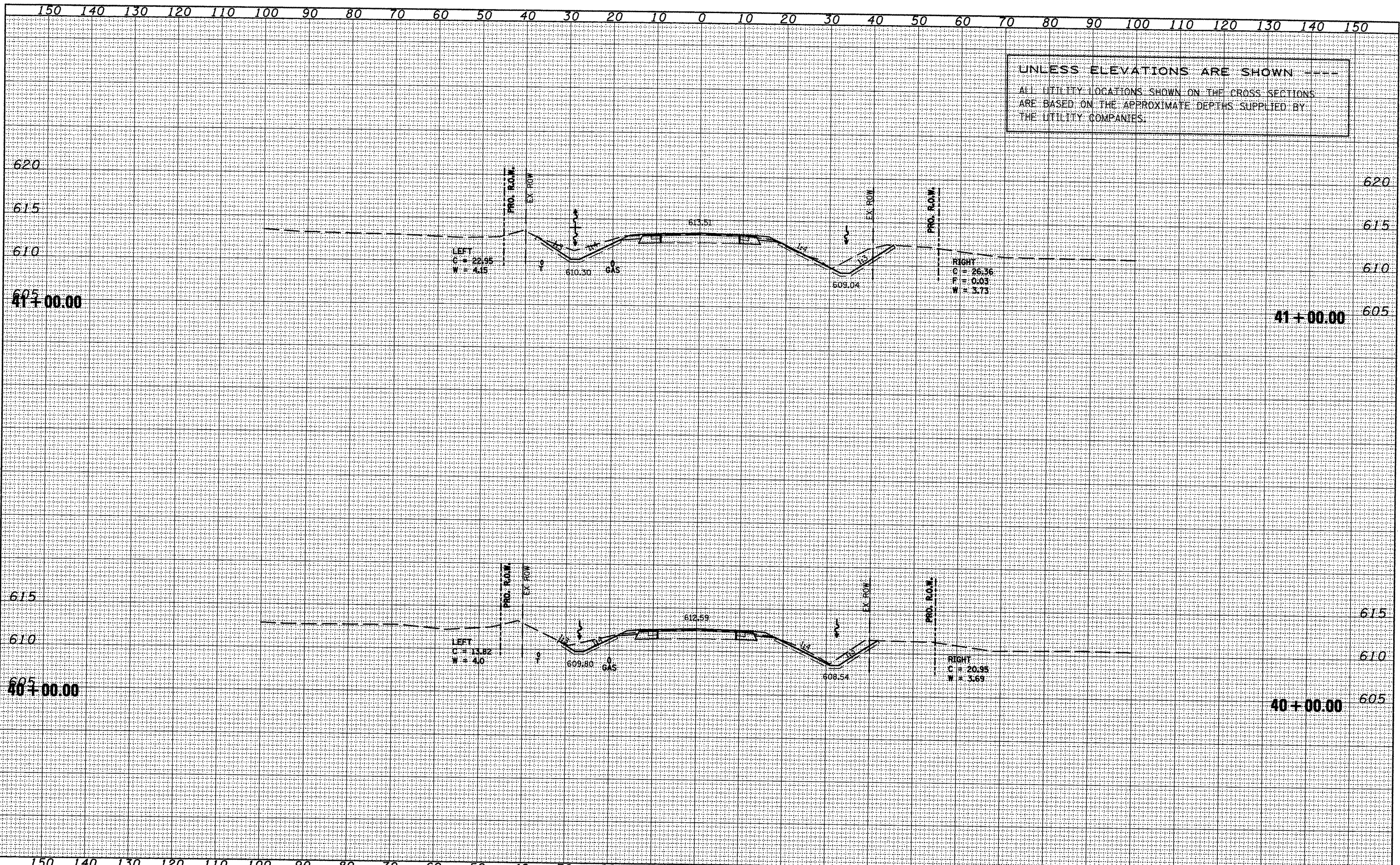


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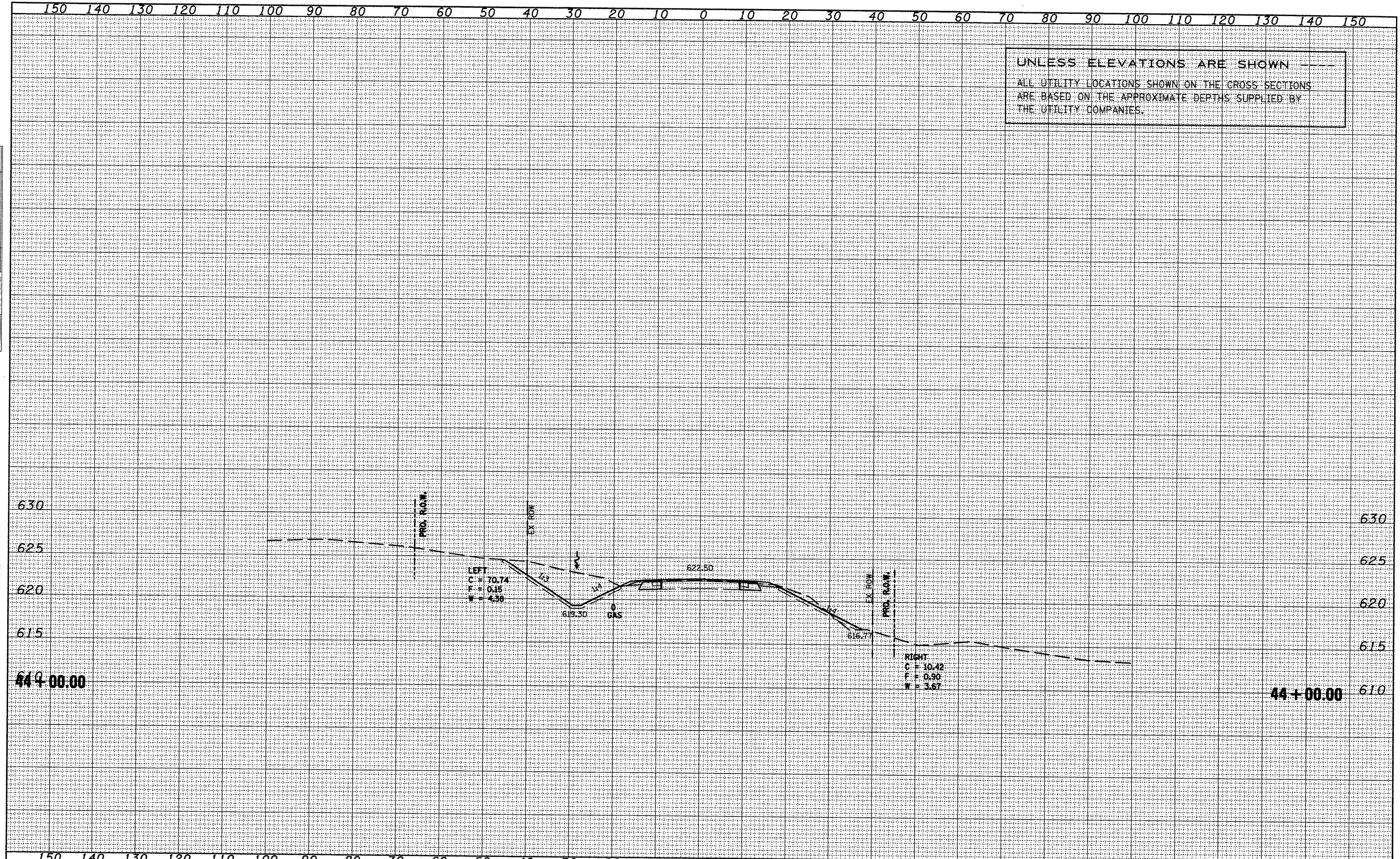




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UNLESS ELEVATIONS ARE SHOWN ---  
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 PLOT DATE = 1/21/2009

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - MAINLINE

SCALE: SHEET NO. OF SHEETS STA. 44+00.00 TO STA. 44+00.00

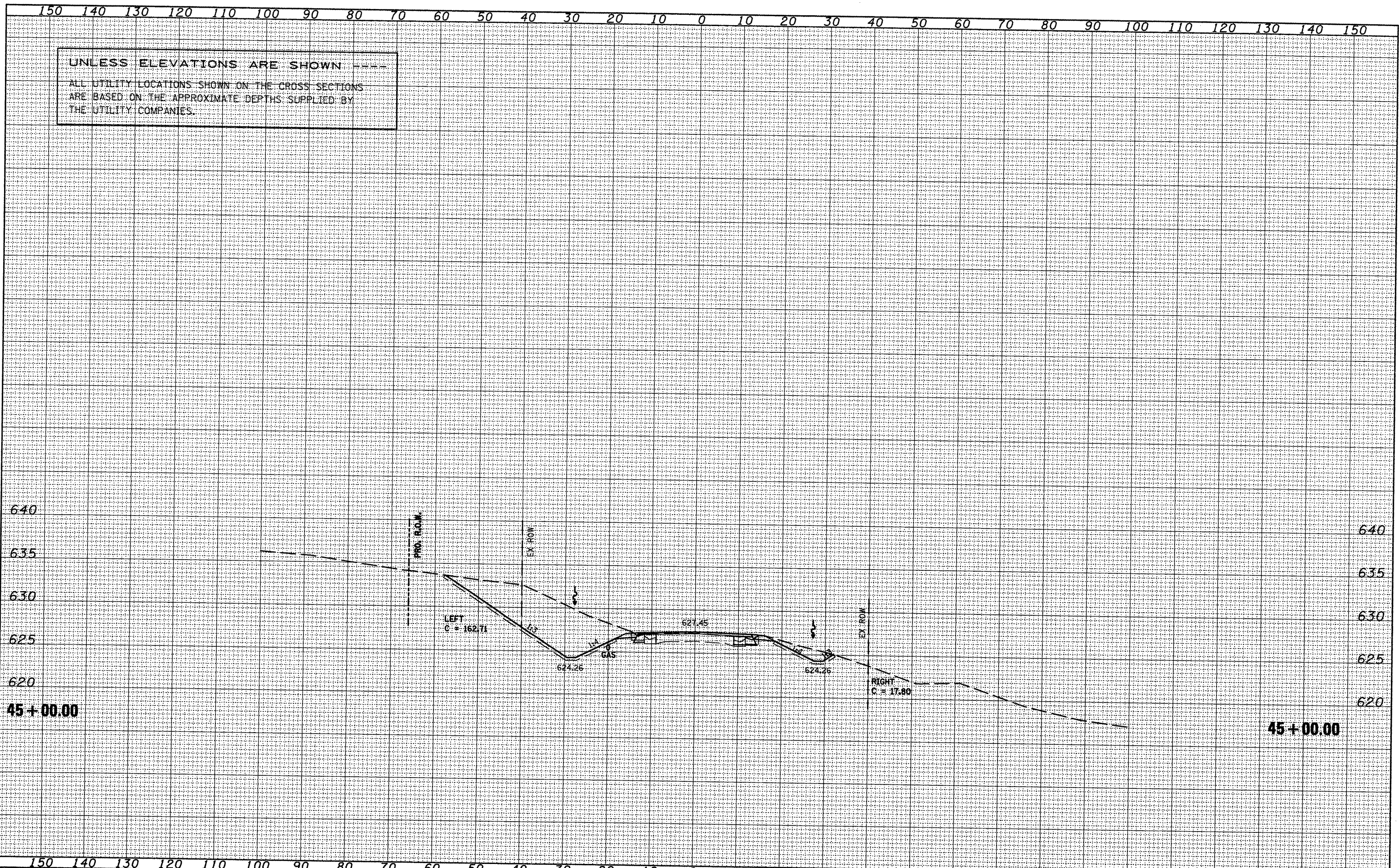
F. MAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3+109BR-2	HENDERSON		208
CONTRACT NO. 88773			ILLINOIS FED. AID PROJECT	



UNLESS ELEVATIONS ARE SHOWN ---  
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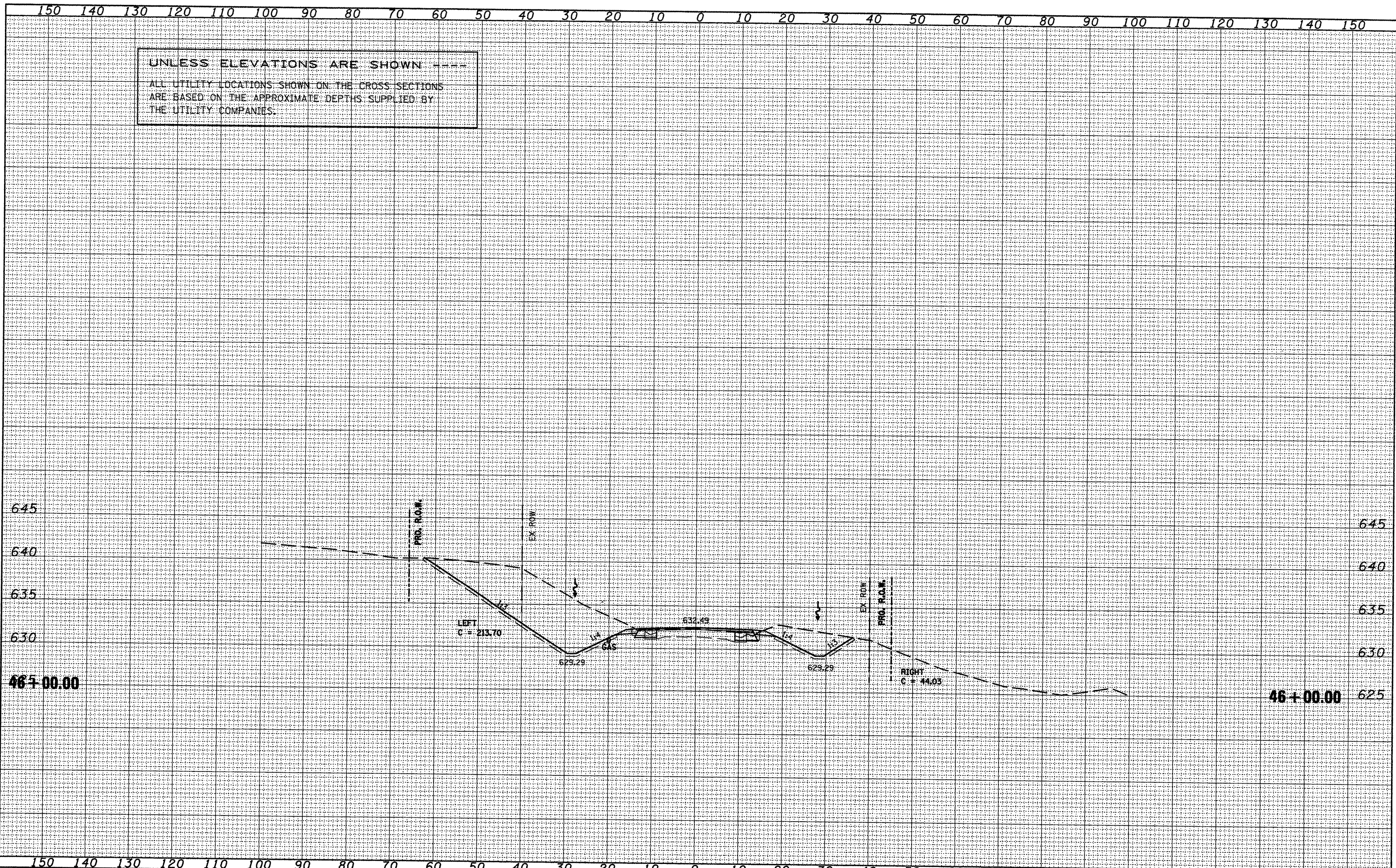




UNLESS ELEVATIONS ARE SHOWN  
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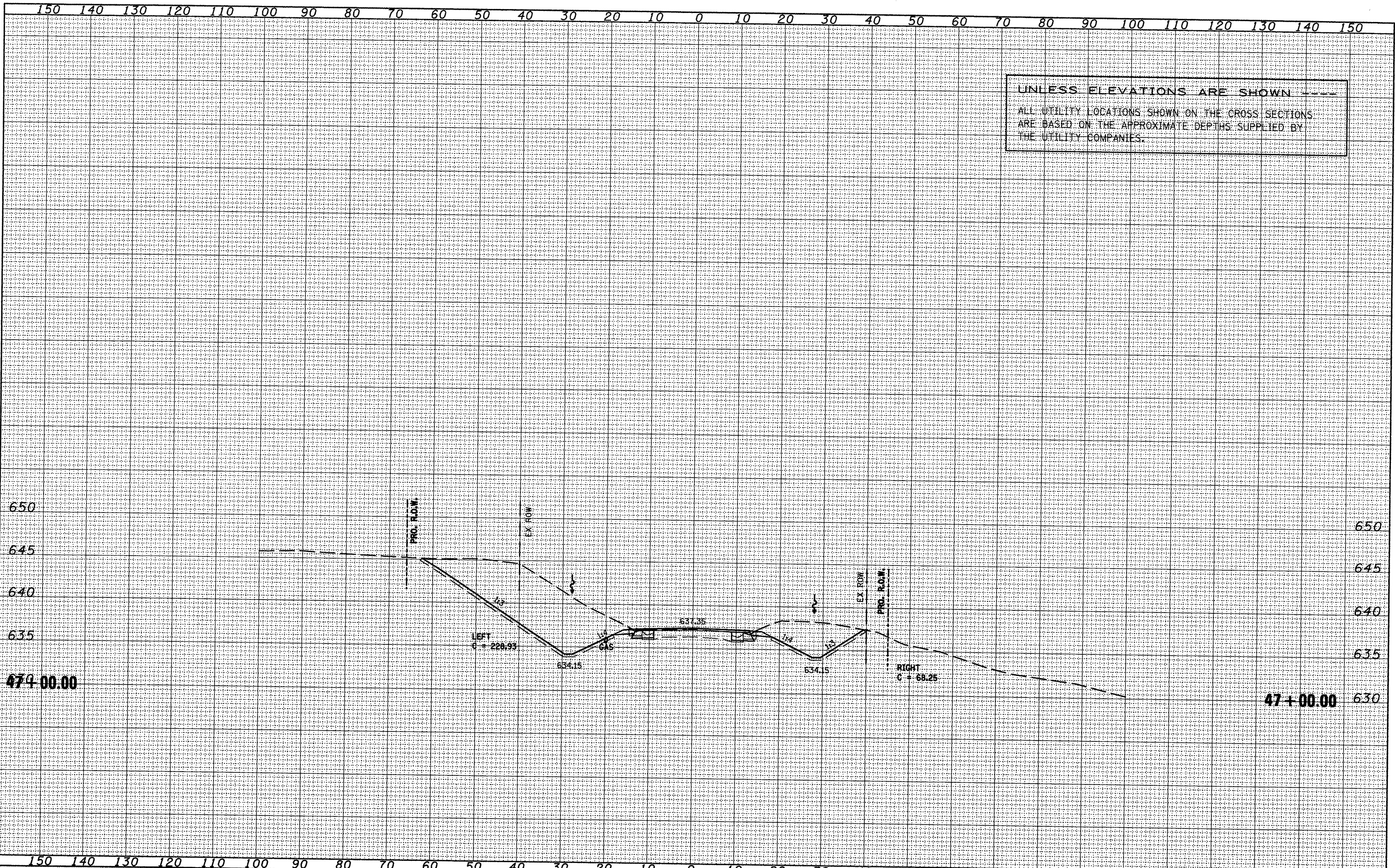
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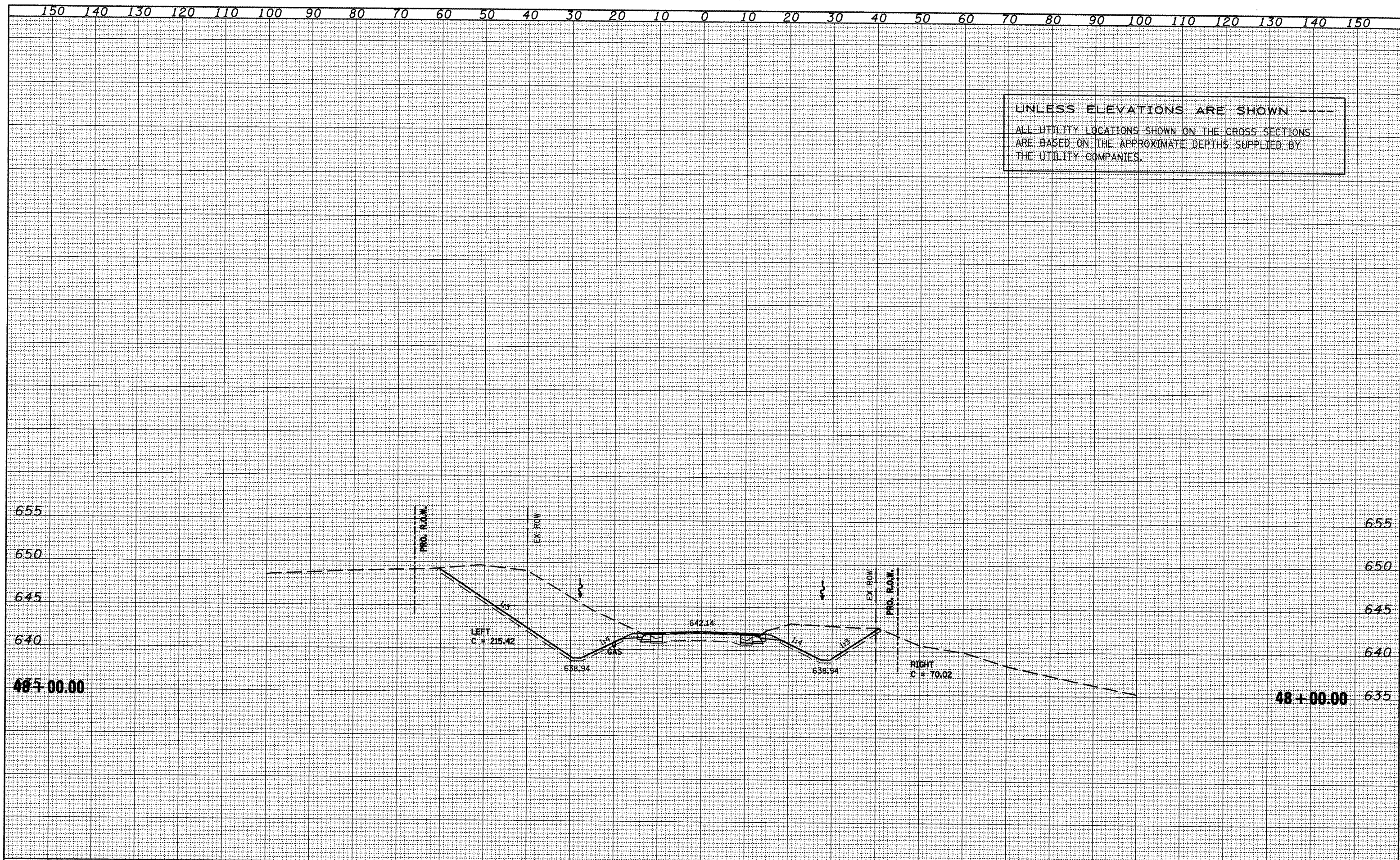
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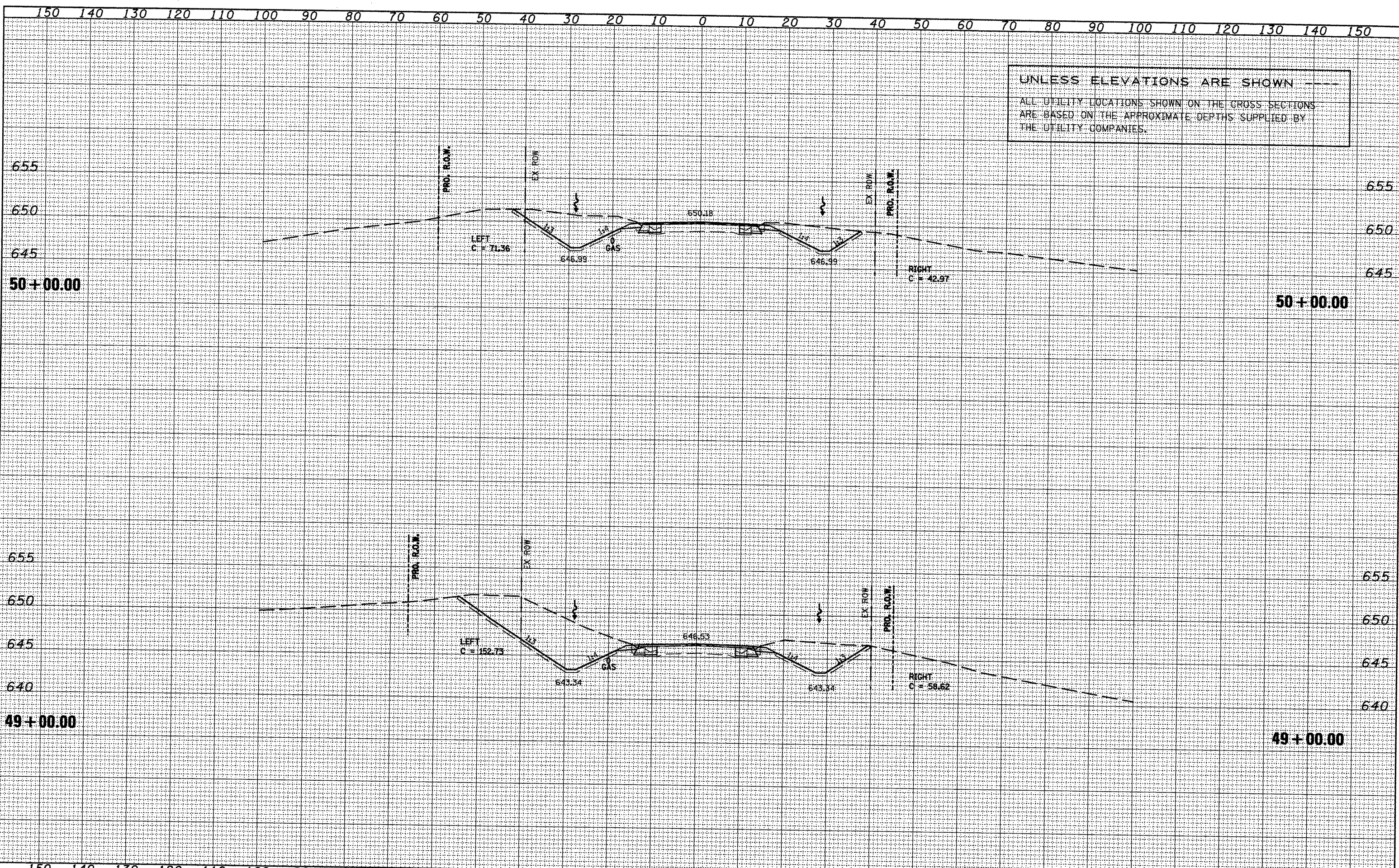
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	PLT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			665	(136,137)W&RS-3109BR-2	HENDERSON	292	
	PLT DATE = 1/21/2009	CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 48+00.00 TO STA. 48+00.00		CONTRACT NO. 88773		
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



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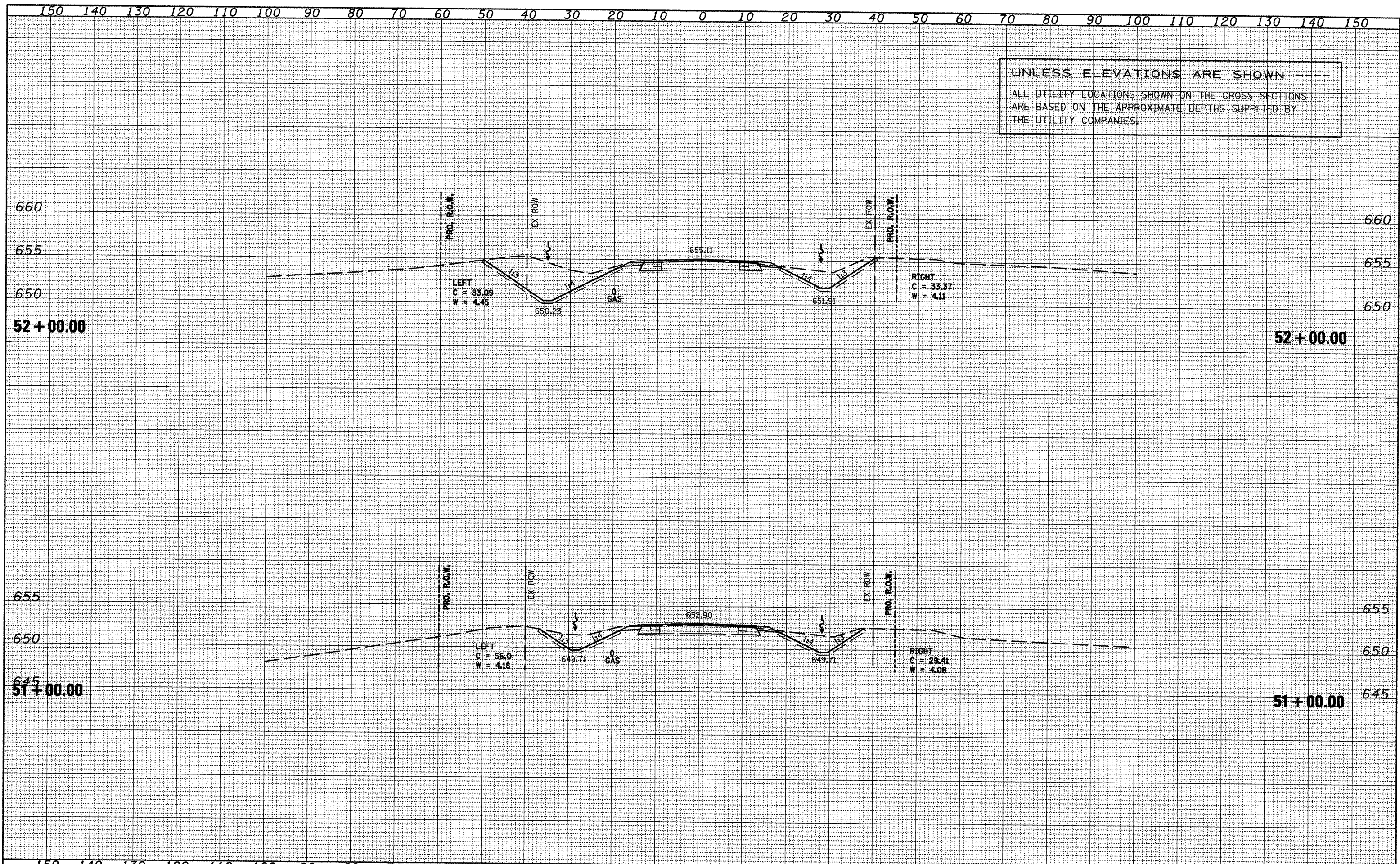
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL 116 - MAINLINE  
 SCALES: SHEET NO. OF SHEETS STA. 49+00.00 TO STA. 50+00.00

F. & AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136.137)W&RS-3;109BR-2	HENDERSON		293
CONTRACT NO. 88773				



UNLESS ELEVATIONS ARE SHOWN ---  
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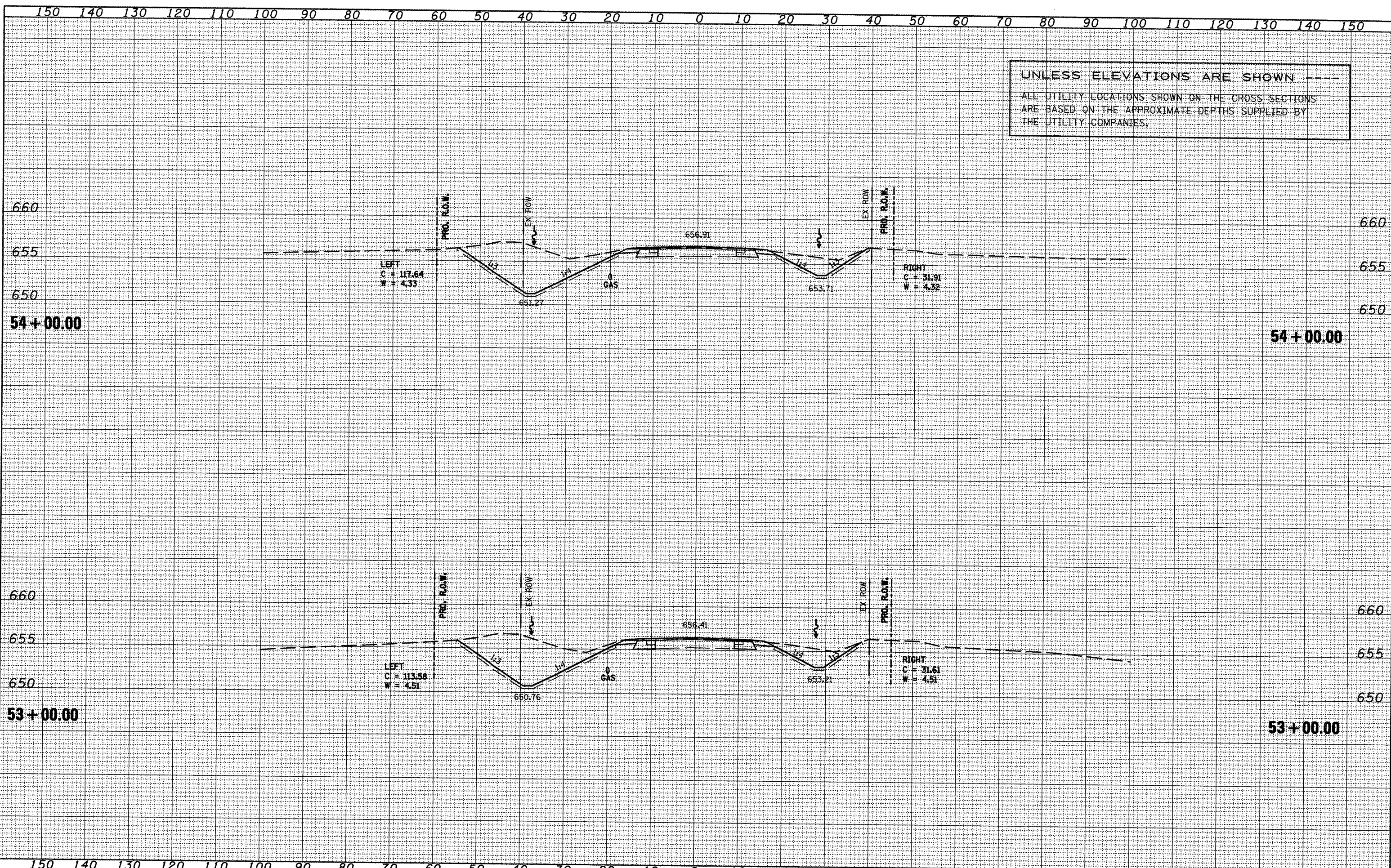
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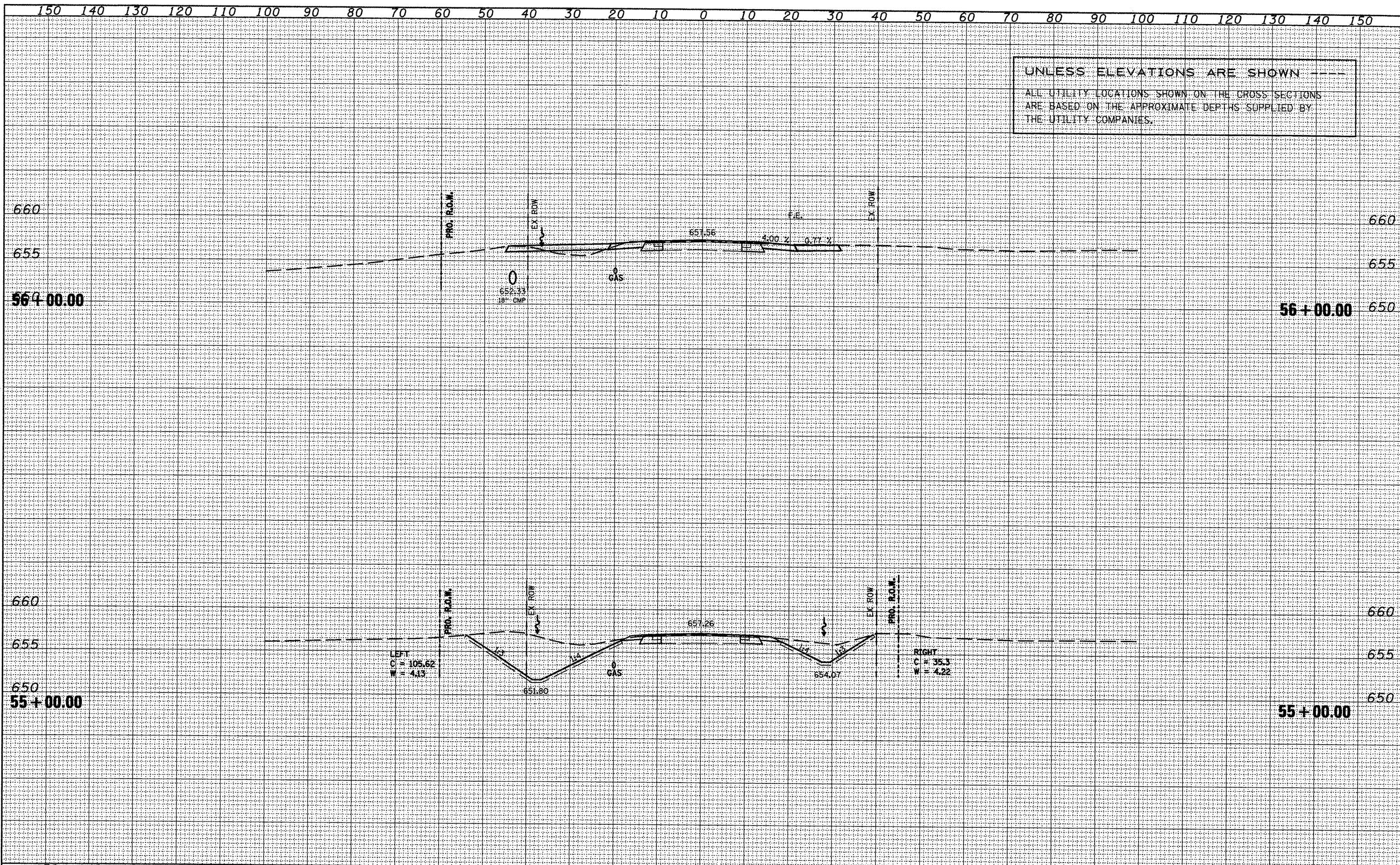




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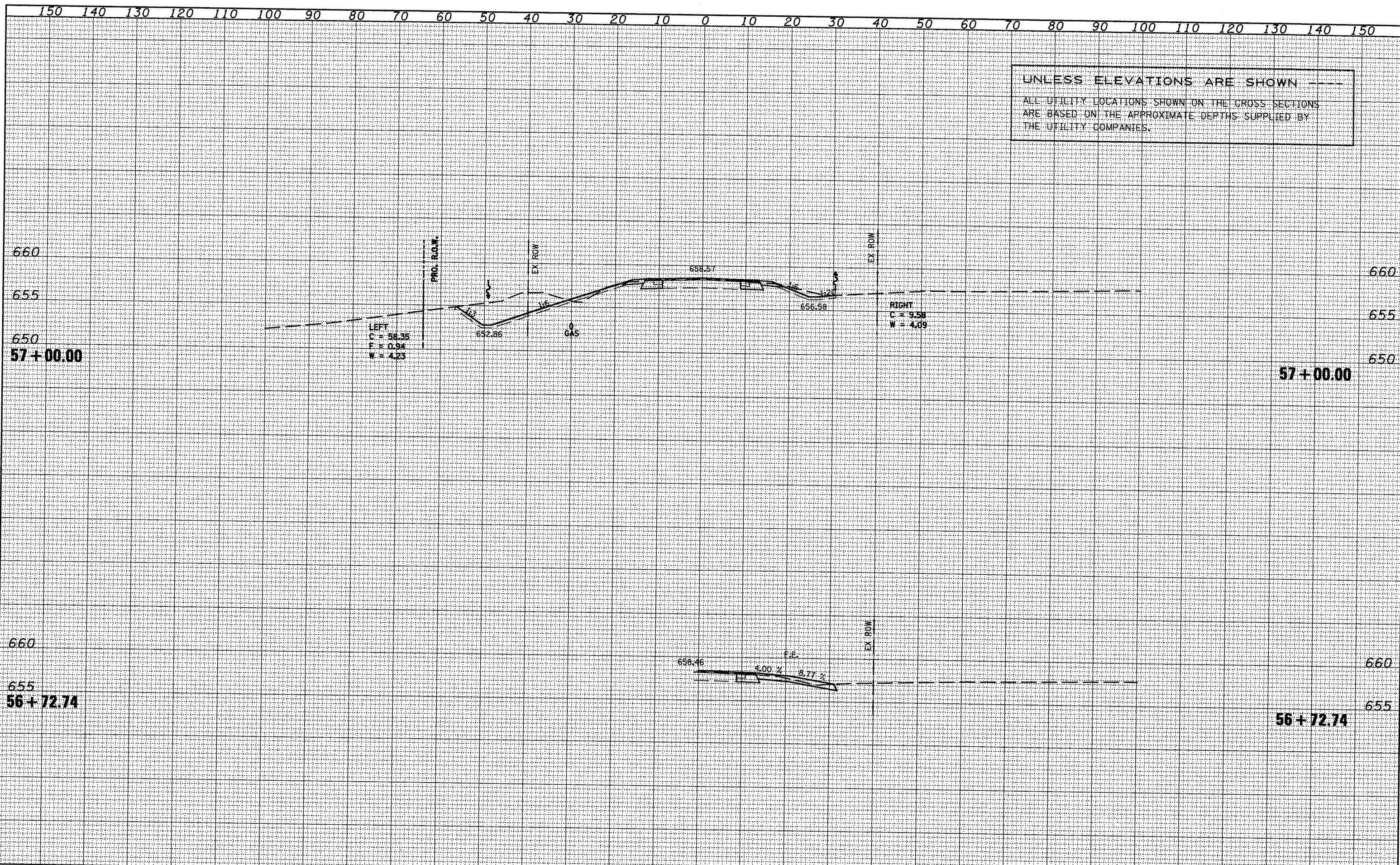




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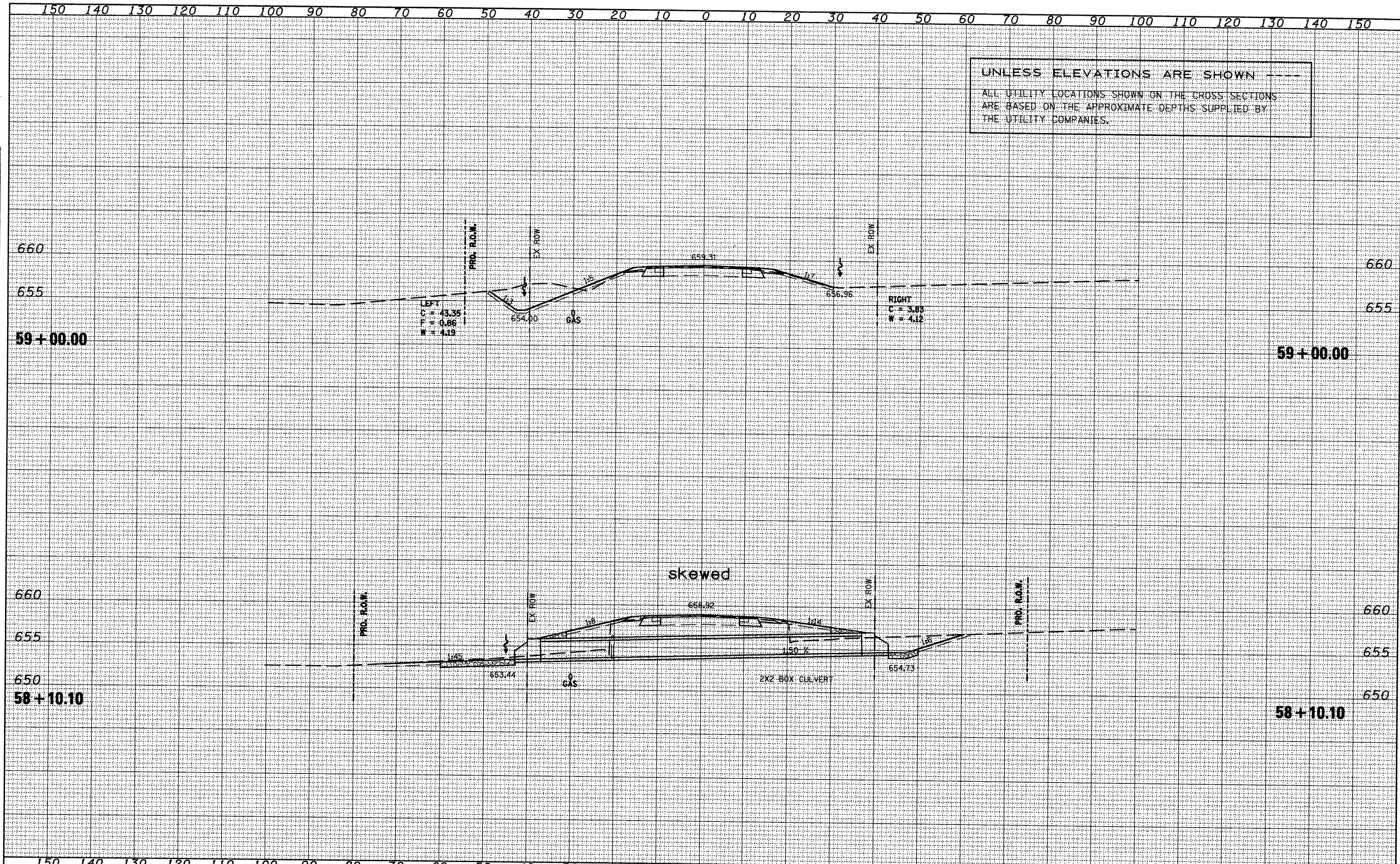
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	PLDT DATE = 1/21/2009	CHECKED -	REVISED -						<b>CONTRACT NO. 88773</b>				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



FINAL	SURVEYED	DATE
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ORIGINAL	SURVEYED	DATE
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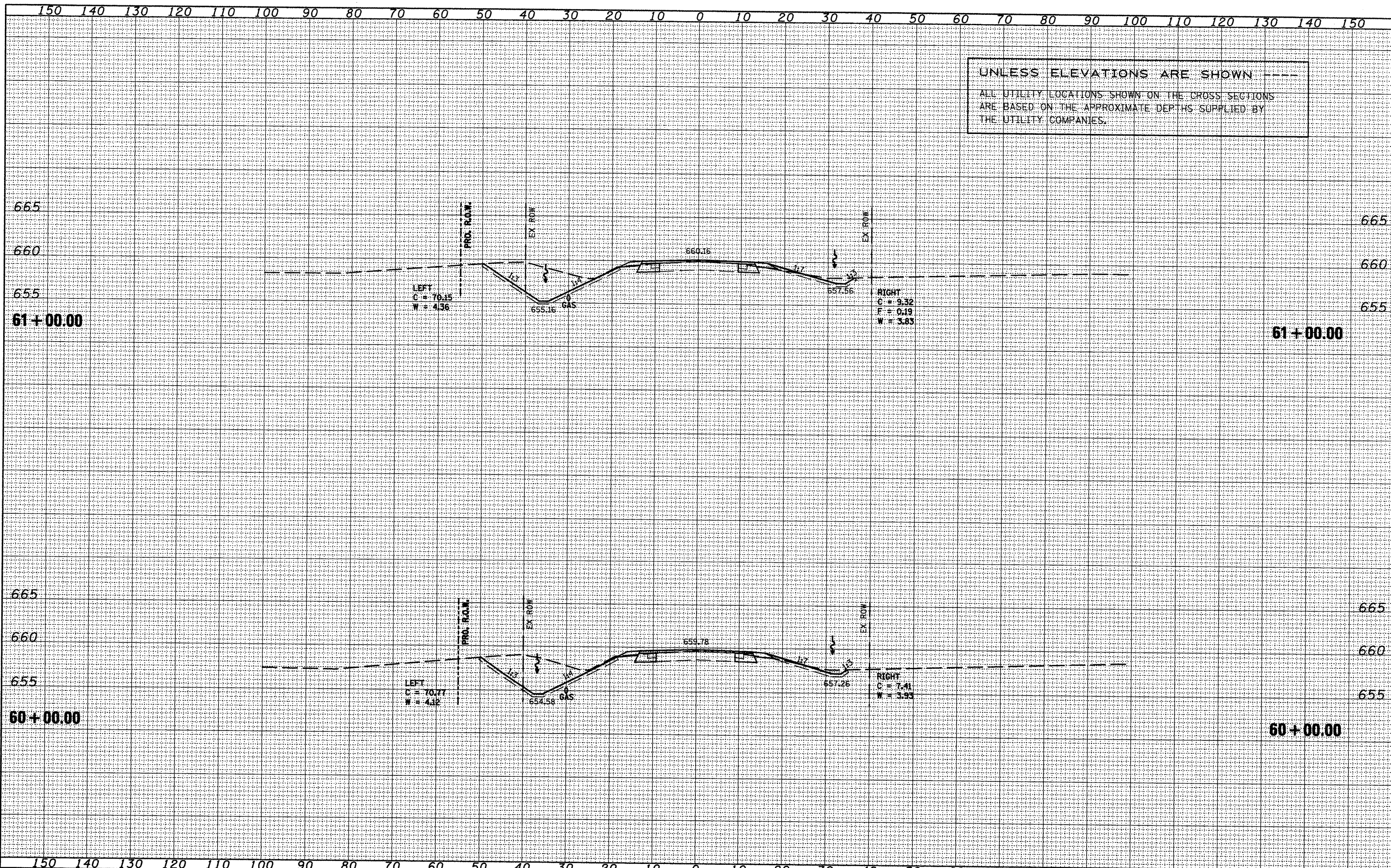




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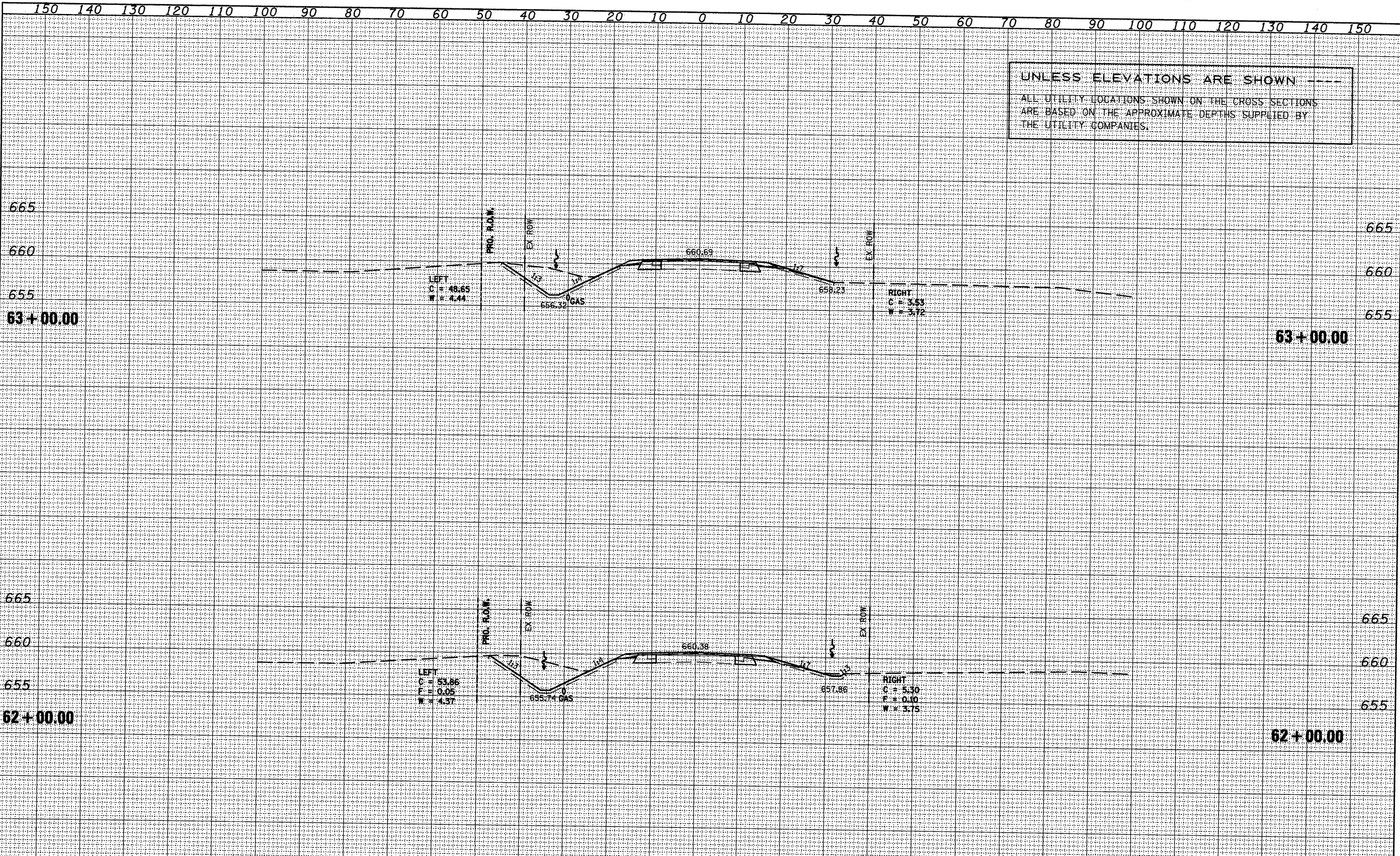
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 THE UTILITY COMPANIES.





UNLESS ELEVATIONS ARE SHOWN ---  
 ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS  
 ARE BASED ON THE APPROXIMATE DEPTHS SUPPLIED BY  
 THE UTILITY COMPANIES.



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