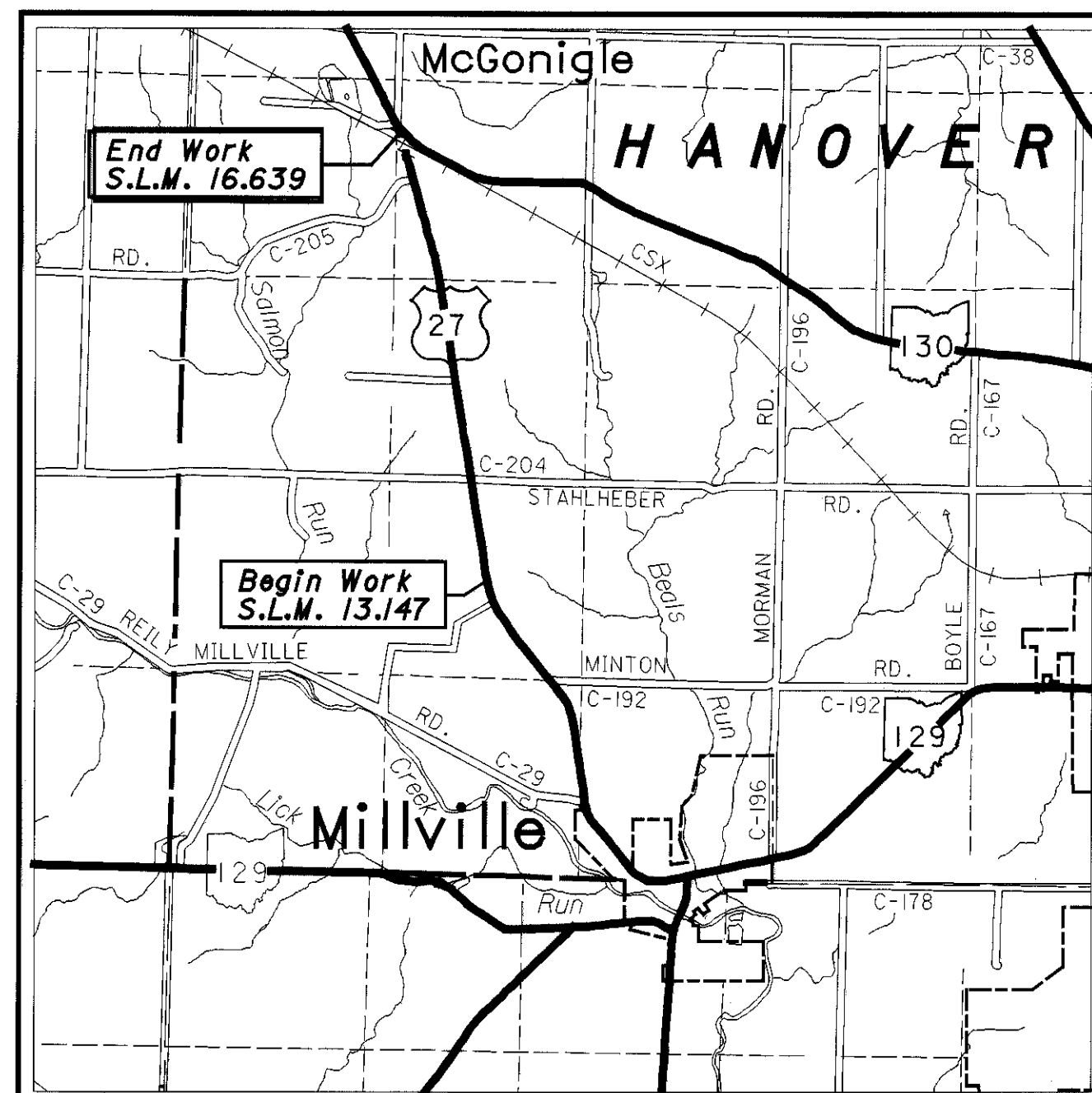


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

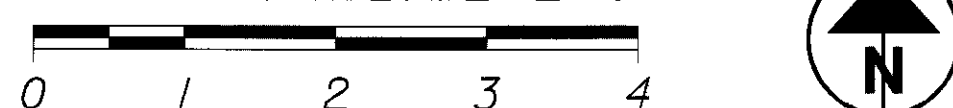
THIS PROJECT WILL CONSIST OF MODIFYING EXISTING OPEN CHANNEL TO PROVIDE AN ENCLOSED DRAINAGE FACILITY, THUS RESULTING IN FLATTER SLOPES ALONG US 27



LOCATION MAP

LATITUDE: 39°25'45" LONGITUDE: 84°40'30"

SCALE IN KILOMETERS



PORTION TO BE IMPROVED -----  
STATE & FEDERAL ROUTES -----  
OTHER ROADS -----

DESIGN DESIGNATION

CURRENT ADT (1993) ----- 9400  
DESIGN YEAR ADT (2013) ----- 14,200  
DESIGN HOURLY VOLUME (2013) ----- 2,130  
DIRECTIONAL DISTRIBUTION ----- 55%  
TRUCKS (24 HOUR B&C) ----- 7%  
DESIGN SPEED ----- 89 KM/H  
LEGAL SPEED ----- 72 KM/H

DESIGN FUNCTIONAL CLASSIFICATION -  
ARTERIAL (RURAL)

DESIGN EXCEPTIONS

NONE

**UNDERGROUND UTILITIES**  
TWO WORKING DAYS  
**BEFORE YOU DIG**  
CALL 1-800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

ODOT  
PRODUCTION  
DISTRICT 8

ENGINEERS SEAL



No. 52233  
SIGNED: *Joseph B. Davis*  
DATE: 3/20/98

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1997 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF ANY LANES AT ANY TIME

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
CB-1.1M	7/12/95	MT-97.10M	4/25/94	
CB-1.2M	7/12/95	MT-105.10M	4/25/94	
CB-3.1M	7/12/95	MT-105.11M	4/25/94	
HW-2.1M	7/12/95			
HW-2.2M	7/12/95			
DM-1.1M	6/30/95			
DM-4.3M	6/30/95			
BP-5.1M	10/28/94			

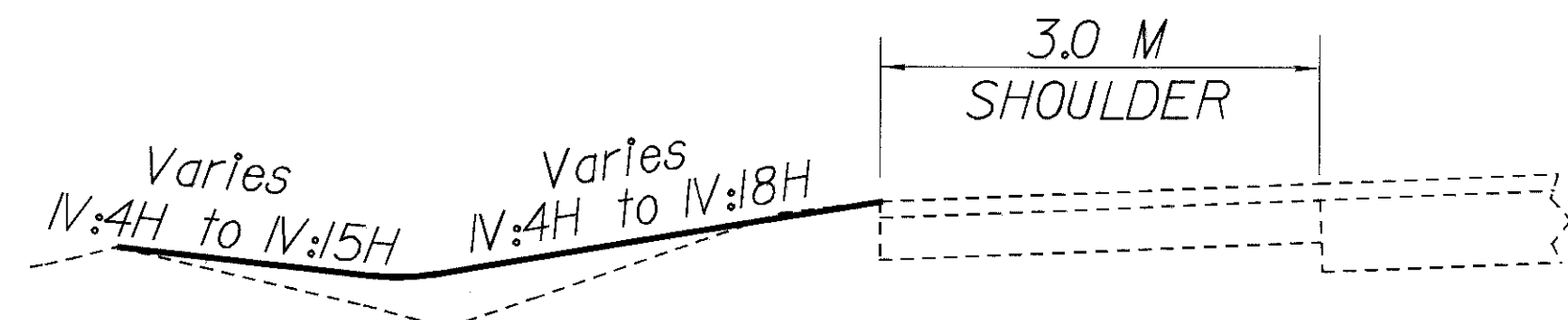
APPROVED: *[Signature]*  
DATE: 3/23/98 DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*  
DATE: 4/16/98 DIRECTOR, DEPARTMENT OF TRANSPORTATION

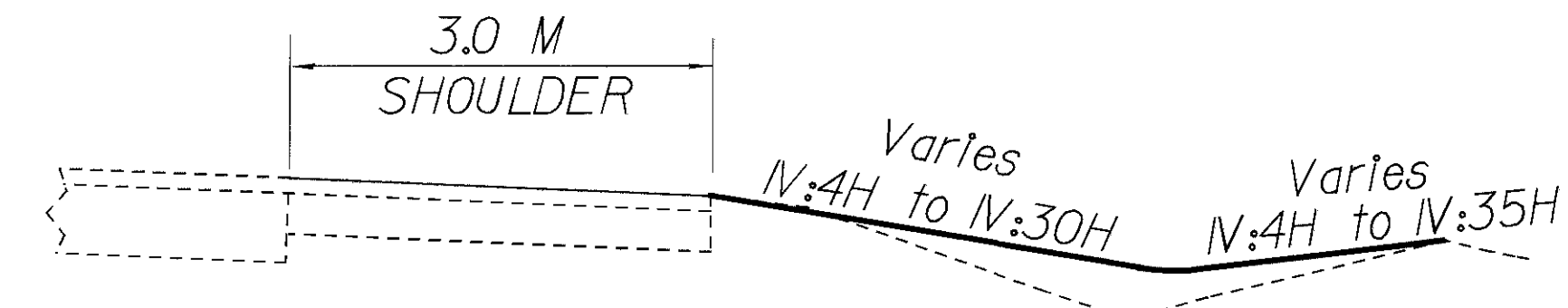
FEDERAL PROJECT NO. 100% STATE  
PID NO. 17820  
CONSTRUCTION PROJECT NO.  
RAILROAD INVOLVEMENT NONE  
BUT -27 -13.147  
105

BUT-27-13.147  
980530  
10PBG  
DIST. 08  
PID# 17820  
07/22/98  
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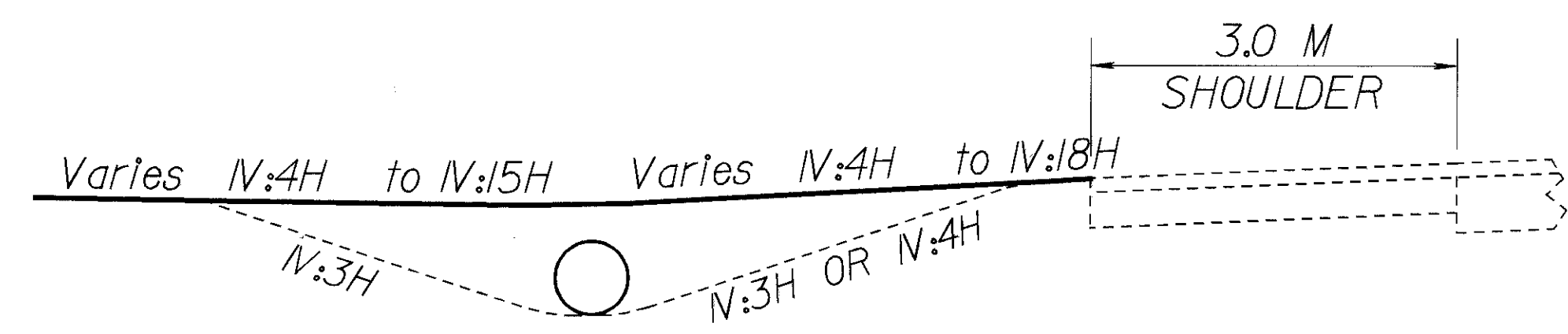
THESE TYPICAL SECTIONS VARY FROM LOCATION TO LOCATION ALONG THE LENGTH OF THE PROJECT SEE THE CROSS SECTIONS FOR EXACT STATIONING.



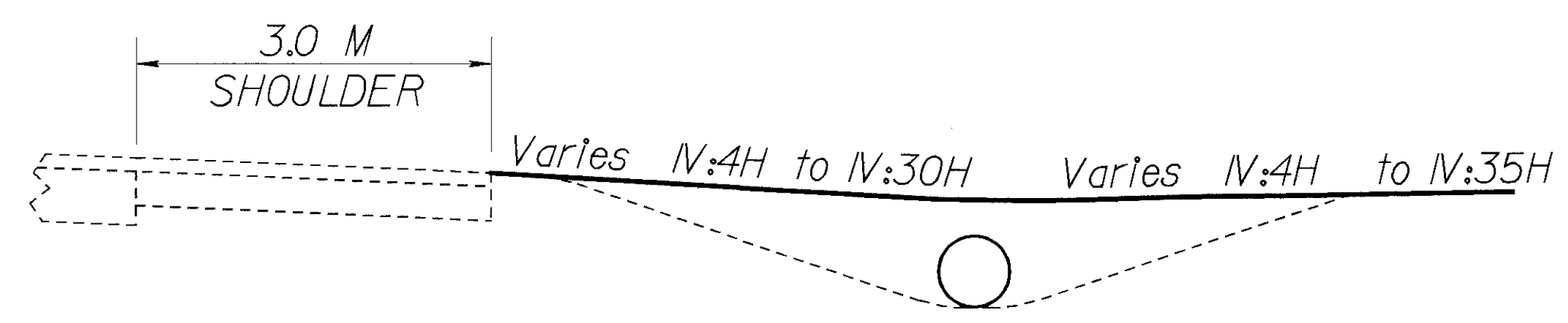
STA. 3+235 to 3+392  
STA. 4+260 to 4+300  
STA. 6+290 to 6+318



STA. 4+160 to 4+220  
STA. 4+651 to 4+678  
STA. 5+332 to 5+400  
STA. 5+600 to 5+632



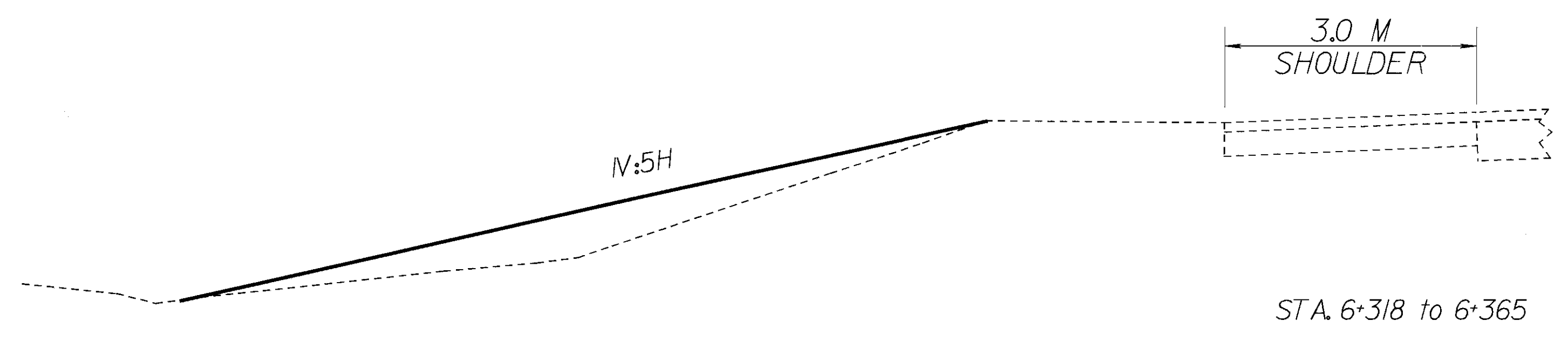
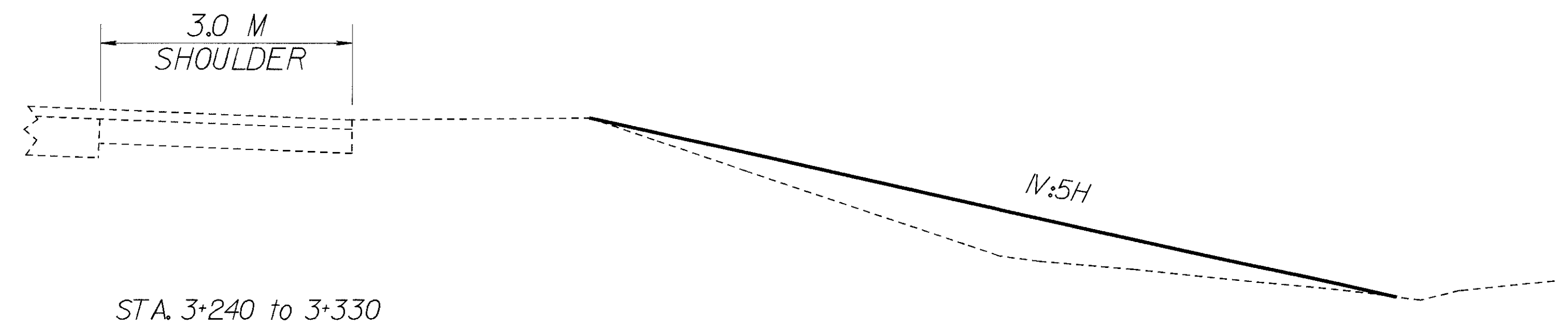
STA. 3+420 to 3+512  
STA. 4+400 to 4+651  
STA. 4+960 to 5+120  
STA. 5+140 to 5+280  
STA. 6+100 to 6+220



STA. 4+226 to 4+500  
STA. 4+525 to 4+585  
STA. 4+620 to 4+651  
STA. 4+678 to 4+780  
STA. 4+810 to 4+850  
STA. 4+870 to 5+332

STA. 5+406 to 5+430  
STA. 5+460 to 5+551  
STA. 5+632 to 5+670  
STA. 6+230 to 6+310

THESE TYPICAL SECTIONS VARY FROM LOCATION  
TO LOCATION ALONG THE LENGTH OF THE PROJECT  
SEE THE CROSS SECTIONS FOR EXACT STATIONING.



## ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

## UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

## UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT :

NOTE: THE PROFILES AND X-SECTION LOCATIONS OF THE EXISTING WATER AND GAS LINES WILL BE FURNISHED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

<p><b>WATER :</b>                  Southwest Regional Water Dist.                  3640 Old Oxford Road                  Hamilton, Ohio 45013                  Phone: (513) 863-0828</p>	<p><b>TELEPHONE:</b>                  Cincinnati Bell Telephone                  201 E. 4th Street                  Mail Location 301-1175                  Cincinnati, Ohio 45202                  Phone: (513) 565-7043</p>	<p><b>ELECTRIC :</b>                  Cincinnati Gas &amp; Electric Co.                  P.O. Box 960 Room 467A                  Cincinnati, Ohio 45201                  Phone: (513) 287-2454</p>
<p><b>TV CABLE :</b>                  TCI                  341 City Centre Mall                  Middletown, Ohio 45042                  Phone: (513) 424-2408</p>	<p><b>GAS :</b>                  Cincinnati Gas &amp; Electric Co.                  P.O. Box 960 Room 460A                  Cincinnati, Ohio 45201-0906                  Phone: (513) 287-3636</p>	

## REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS MARKED FOR REMOVAL AND MARKED "SAVE IF POSSIBLE" THAT ARE DEEMED REMOVAL DUE TO FIELD CONDITIONS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING. THE FOLLOWING IS AN ESTIMATE : TREES - FIVE (5) 300mm, ONE (1) 375mm, ONE (1) 600mm, ONE (1) 750mm, ONE (1) 900mm & ONE (1) SHRUB SHALL BE REMOVED.

## CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

## REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUIT INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THE CONTRACT.

## CROSSING AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE, OR UTILITY, BOTH AS TO LINE AND GRADE BEFORE INSTALLATION OF THE PROPOSED CONDUIT. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING UNDERGROUND UTILITY, IF CONSTRUCTED AS PER PLAN, THE PROJECT ENGINEER SHALL BE NOTIFIED BEFORE THE CONSTRUCTION OF THE PROPOSED CONDUIT BEGINS. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

## ITEM 207 - FILTER FABRIC FENCE

### MATERIALS

FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ITEM 207.02

### CONSTRUCTION

THE BOTTOM OF THE FENCE SHALL BE BURIED 150mm BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND BE ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT WITH THE EXCEPTION OF THE END ELEVATIONS WHICH SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

### MAINTENANCE

THE FILTER FABRIC FENCE SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OR TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR AND/OR REPLACEMENT OF THE FILTER FABRIC.

### PAYMENT

THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 - FILTER FABRIC FENCE, METER.

## TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 207 - TEMPORARY SEEDING AND MULCHING	5573	SQ. METER
ITEM 207 - STRAW OR HAY BALES	660	EACH
ITEM 207 - FILTER FABRIC FENCE	50	METER
ITEM 659 - COMMERCIAL FERTILIZER	684	KILOGRAM
ITEM 659 - REPAIR SEEDING AND MULCHING	1266	SQ. METER
ITEM 659 - WATER	70	CU. METER

## SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THREE (3) METERS OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS, OR TO THE RIGHT-OF-WAY LINE, IF SUCH LINE IS LESS THAN THREE (3) METERS FROM THE WORK LIMITS. IT IS THE INTENT OF THIS PROJECT TO CONSIDER ALL AREAS TO BE SEEDING AS URBAN IN CHARACTER AND REQUIRE, AS PER 659.09, ALL AREAS TO BE FREE OF STONES 25 mm (1-in) OR GREATER. SEED MIXTURE AS PER 659.09 FOR URBAN

ITEM 659	SEEDING	25,333	SQ. METER
ITEM 659	COMMERCIAL FERTILIZER	2,533	KILOGRAM

### HOUSE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS, DISTURBED BY THE PROPOSED WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO STORM SEWER, CATCH BASIN, OR OPEN DITCH. THE LOCATION, TYPE SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603	100MM CONDUIT, TYPE E, 707.19	150 METER
ITEM 603	150MM CONDUIT, TYPE E, 706.01, 706.02, 706.08, OR 711.29	150 METER
ITEM 603	150MM CONDUIT, TYPE F	150 METER

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

### WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09:

ITEM 659	WATER	255 CUBIC METER
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### ITEM 603 - 150MM CONDUIT, TYPE F, AS PER PLAN

THIS ITEM SHALL REQUIRE THE REMOVAL OF THE EXISTING REINFORCED CONCRETE OUTLET (R.C.O.), EXTENSION OF THE TYPE F CONDUIT, AND CONNECTION OF THAT CONDUIT TO A CATCH BASIN. IT SHALL INCLUDE ALL MATERIAL AND TOOLS NECESSARY TO ACCOMPLISH THIS TO THE SATISFACTION OF THE ENGINEER.

AFTER REMOVING THE R.C.O. THE CONDUIT SHALL BE SAW CUT TO OBTAIN A CLEAN EDGE FOR PROPER INSTALLATION OF THE NEW CONDUIT.

AN ESTIMATED QUANTITY OF 100 METERS HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

### ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND CONSTRUCTING COMBINATION CURB AND GUTTER, TYPE 2, IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS OR ESTABLISHED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE NECESSARY EXCAVATION AND BACKFILL, FURNISHING AND INSTALLING JOINT MATERIALS.

THE HEIGHT OF THE CURB SHALL BE 300MM AND TAPER AT EACH END AS DETAILED ON THE PLAN SHEET.

### ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN.

### ITEM 410 - TRAFFIC COMPACTED SURFACE, AS PER PLAN

IN LIEU OF THE MATERIALS DESCRIBED IN 411.02, THE GRANULAR MATERIAL TO BE USED FOR THIS ITEM SHALL MEET THE REQUIREMENTS OF 304.02 AGGREGATE. ALL OTHER REQUIREMENTS OF ITEM 410 SHALL APPLY. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 410 - TRAFFIC COMPACTED SURFACE, AS PER PLAN	100 CU. METER
---	---------------

### ITEM 603 - CONNECTION OF PROPOSED CONDUITS TO EXISTING CONDUITS

DURING CONNECTION OF THE PROPOSED CONDUIT TO THE EXISTING CONDUIT, THE CONTRACTOR SHALL USE CAUTION NOT TO DAMAGE EXISTING CONDUIT. IF DAMAGE IS INCURRED DUE TO THE FAULT OF THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ANY NECESSARY CUTS, INSTALL ADDITIONAL CONDUIT AND/OR COLLARS AT NO ADDITIONAL COST TO THE STATE. IF DAMAGE IS NOT THE FAULT OF THE CONTRACTOR, THE ADDITIONAL CONDUIT AND MATERIALS NEEDED TO MAKE REPAIRS SHALL BE PAID FOR AT THE UNIT BID PRICE FOR THE SIZE CONDUIT NECESSARY. THIS WORK SHALL BE "AS DIRECTED BY THE ENGINEER."

### CENTERLINE AND MONUMENT INFORMATION

THE EXISTING CENTERLINE, RIGHT-OF-WAY, AND MONUMENT INFORMATION IS ON FILE AT:

The Ohio Department of Transportation  
District 8 Headquarters  
505 South S.R. 741  
Lebanon, Ohio 45036

Phone 1-800-831-2142 or 513-932-3030

A COPY MAY BE OBTAINED DURING NORMAL BUSINESS HOURS MONDAY THRU FRIDAY.

# MAINTENANCE OF TRAFFIC

## MAINLINE

IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY OF, THE CONTRACTOR AND THE TRAVELING PUBLIC, ANY DEVIATION FROM THESE MAINTENANCE OF TRAFFIC NOTES OR SEQUENCE OF OPERATIONS MUST BE APPROVED, IN ADVANCE, IN WRITING, BY THE DIRECTOR.

THE PAVED SHOULDERS WILL BE CLOSED WHILE THE CONTRACTOR IS WORKING IN THE DITCH AREA. THIS WILL BE PERFORMED AS PER THE DETAIL SHOWN BELOW.

AT NO TIME WILL ANY LANES BE CLOSED FOR ANY REASON UNLESS APPROVED BY P.E. THIS INCLUDES ANY PORTION OF THE LANE ALONG THE WORK AREA. ACCESS TO DRIVES SHALL BE MAINTAINED AT ALL TIMES. (SEE DETAIL BELOW)

CONES SHALL EXTEND BEYOND THE DAILY WORK LIMITS A MINIMUM OF 30 METERS AND SHALL BE REMOVED AT THE END OF THE WORK DAY. DURING NON-WORKING HOURS, NO MATERIALS OR EQUIPMENT SHALL REMAIN WITHIN 10 METERS OF THE PAVEMENT UNLESS PLACED BEHIND EXISTING GUARDRAIL.

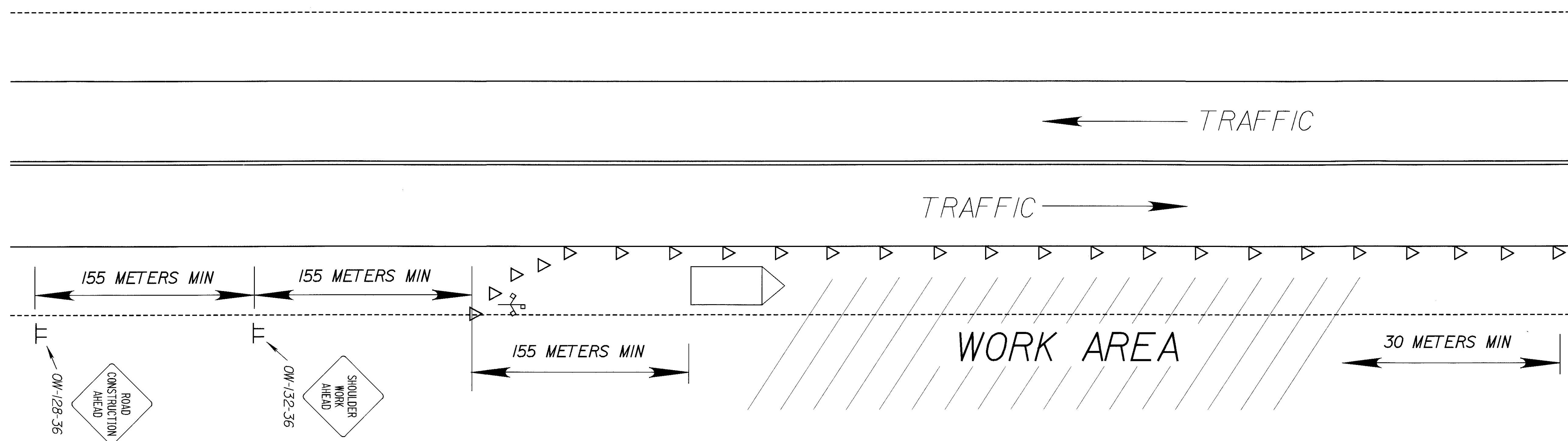
SPACING FOR CONES SHALL BE 8 METERS C/C EXCEPT IN GORE AREA WHERE THEY WILL BE 4 METERS C/C.

## STILLWELL RD.

DURING THE WORK ON STILLWELL RD. THE TRAFFIC SHALL BE MAINTAINED BY USING STANDARD DRAWING MT-97JOM, USE FLAGGERS AND ROUTE TRAFFIC ALONG ONE-LANE. THE USE OF TWO WAY ONE-LANE TRAFFIC SHALL BE RESTRICTED TO DAYLIGHT HOURS ONLY.

## NOTE:

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.



SHEET NUMBER												ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
4	5	8	9	10	11	12	13	13A	15A	45	102							
												<b>ROADWAY</b>						
LUMP													201	11000	LUMP	LUMP	CLEARING AND GRUBBING	
								29					202	23000	29	SQ METER	PAVEMENT REMOVED	
								5					202	11004	5	EACH	STRUCTURE REMOVED	
								39					202	35101	39	METER	PIPE REMOVED, 600 MM AND UNDER, AS PER PLAN	
								7	20				203	12000	27	CU METER	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	
									22	172	5603		203	20000	5797	CU METER	EMBANKMENT	
								7	52				304	20000	59	CU METER	AGGREGATE BASE	
									7				301	46000	7	CU METER	BITUMINOUS AGGREGATE BASE, PG64-22	
									4				448	90000	4	CU METER	ASPHALT CONCRETE, MISC.	
	100												410	14001	100	CU METER	TRAFFIC COMPACTED SURFACE, AS PER PLAN (See Sheet 5)	
								29					452	09990	29	SQ METER	150 MM PLAIN CONCRETE PAVEMENT	
										59			609	12001	59	METER	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	
												<b>DRAINAGE</b>						
							12	2					604	01302	14	EACH	CATCH BASIN, NO. 4 WITH E GRATE	
							3						604	05300	3	EACH	CATCH BASIN, NO. 2-4	
							8	1					604	04900	9	EACH	CATCH BASIN, NO. 2-3	
							18	36					604	04500	54	EACH	CATCH BASIN, NO. 2-2B	
							1						604	09500	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
		8											603	10600	8	METER	600 MM CONDUIT, TYPE C, REINFORCED CONCRETE PIPE, 706.02	
		6		1									603	09100	7	METER	525 MM CONDUIT, TYPE C, REINFORCED CONCRETE PIPE, 706.02	
		259			64								603	10600	323	METER	600 MM CONDUIT, TYPE C, BITUMINOUS LINED CORRUGATED, 707.13 OR 707.14	
		91	134										603	09100	225	METER	525 MM CONDUIT, TYPE C, BITUMINOUS LINED CORRUGATED, 707.13 OR 707.14	
		231	251	41	104								603	07600	627	METER	450 MM CONDUIT, TYPE C, BITUMINOUS LINED CORRUGATED, 707.13 OR 707.14	
		56	144	222	101								603	06100	523	METER	375 MM CONDUIT, TYPE C, BITUMINOUS LINED CORRUGATED, 707.13 OR 707.14	
		123		172	40								603	04600	335	METER	300 MM CONDUIT, TYPE C, BITUMINOUS LINED CORRUGATED, 707.13 OR 707.14	
	150												603	00400	150	METER	100 MM CONDUIT, TYPE E, 707.19	
	150												603	01400	150	METER	150 MM CONDUIT, TYPE E, 706.01, 706.02, 706.08, or 711.29	
	150												603	01500	150	METER	150 MM CONDUIT, TYPE F	
	100												603	01501	100	METER	150 MM CONDUIT, TYPE F, AS PER PLAN	
		1.0			.70								602	20000	1.7	CU METER	CONCRETE MASONRY	
												<b>EROSION CONTROL</b>						
5573													207	10000	5573	SQ METER	TEMPORARY SEEDING AND MULCHING	
50													207	30000	50	METER	FILTER FABRIC FENCE	
660													207	70000	660	EACH	STRAW OR HAY BALES	
								55					660	25000	55	SQ METER	SODDING STAKED	
25333										428			659	10000	25761	SQ METER	SEEDING AND MULCHING	
1266													659	14000	1266	SQ METER	REPAIR SEEDING AND MULCHING	
3217										43			659	20000	3260	KILOGRAM	COMMERCIAL FERTILIZER	
70	255									4			659	35000	329	CU METER	WATER	
		18			33								601	32100	51	CU METER	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
													614	11000	LUMP	LUMP	MAINTAINING TRAFFIC	
													624	10000	LUMP	LUMP	MOBILIZATION	
													623	10000	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES	

GENERAL SUMMARY

BUT-27-13.147

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REFERENCE NO.	SHEET NO.	SIDE	STATION TO STATION		603	603	603	603	603	603	603	602	601						
			FROM	TO	METER	METER	METER	METER	METER	METER	METER	METER	CU MET	CU MET					
1-D	14	L	3+282.144	3+283.074	4.4														
2-D	14	L	3+283.074	3+320.085						37.0									
3-D	14	R	3+276.265	3+277.101	3.6							0.39	7.8						
4-D	14	R	3+278.220	3+320.022							41.8	0.22							
5-D	14, 15	L	3+320.848	3+365.005						44.2									
6-D	14	R	3+320.022	3+333.982							14.0								
7-D	15	L	3+377.595	3+382.268						4.7									
8-D	15	L	3+382.268	3+387.977						5.7									
9-D	15	L	3+428.844	3+431.844						3.0									
10-D	15, 16	L	3+431.844	3+481.416								49.6							
11-D	16	L	3+493.736	3+500.091								6.4							
12-D	16	L	3+500.091	3+507.718								7.6							
13-D	21	R	4+213.480	4+216.480								3.0							
14-D	21	R	4+231.259	4+247.802								16.5							
15-D	21	R	4+247.802	4+250.802								3.0							
16-D	21	R	4+260.675	4+274.578								13.9							
17-D	21	L	4+252.241	4+274.969								22.7							
18-D	40	L	4+248.046	4+276.592			36.9												
19-D	40	L	4+276.592	4+275.171			56.2												
20-D	21	L	4+274.969	4+282.336						7.4									
21-D	21	L	4+274.927	4+274.969															
22-D	21	R	4+274.578	4+274.619		3.2													
23-D	21,40	L	4+274.969(0+00)	(0+022.094)				22.1											
24-D	40		(0+022.094)	(0+061.507)				39.4											
25-D	40,40A		(0+061.507)	(0+098.431)				36.9											
26-D	40A		(0+098.431)	(0+148.187)				49.8											
27-D	40A		(0+148.187)	(0+165.475)				17.3				0.39	10.3						
28-D	22	L	4+397.500	4+415.315						17.8									
29-D	22	R	4+410.697	4+413.697					3.0										
30-D	22	R	4+413.697	4+447.448					33.8										
31-D	22	L	4+415.315	4+452.451						37.2									
32-D	23	L	4+464.930	4+467.930						3.0									
33-D	22	R	4+457.362	4+460.362					3.0										
34-D	23	R	4+460.362	4+491.163					30.8										
35-D	23	L	4+467.930	4+483.412						15.5									
36-D	23	L	4+495.740	4+498.740						3.0									
37-D	23	L	4+498.740	4+518.136						19.4									
38-D	23	R	4+503.511	4+506.511					3.0										
39-D	23	R	4+506.511	4+521.163					14.7										
40-D	23	L	4+530.506	4+533.506						3.0									
41-D	23	R	4+531.073	4+534.073					3.0										
42-D	23	L	4+533.506	4+545.191						11.7									
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>8.0</b>	<b>6.0</b>	<b>259</b>	<b>91</b>	<b>231</b>	<b>56</b>	<b>123</b>	<b>1.0</b>	<b>18</b>						



REFERENCE NO.	SHEET NO.	SIDE	STATION TO STATION		603		603		603		603		603		602	
			FROM	TO	METER	METER	METER	METER	METER	METER	METER	METER	CU MET			
43-D	23	R	4+534.073	4+548.693						14.6						
44-D	23	R	4+548.693	4+551.693						3.0						
45-D	23	L	4+557.557	4+560.557							3.0					
46-D	23	R	4+561.617	4+564.614						3.0						
47-D	23	L	4+560.557	4+574.582							14.0					
48-D	23	R	4+564.617	4+583.249						18.6						
49-D	23	L	4+587.018	4+590.018							3.0					
50-D	23, 24	L	4+590.018	4+604.963						14.9						
51-D	23	R	4+593.087	4+596.087						3.0						
52-D	23, 24	R	4+596.087	4+614.502						18.4						
53-D	24	L	4+619.681	4+622.681							3.0					
54-D	24	L	4+622.681	4+644.710							22.0					
55-D	24	R	4+624.408	4+627.408						3.0						
56-D	24	R	4+627.408	4+641.626						14.2						
57-D	24	R	4+641.626	4+644.626						3.0						
58-D	24	R	4+657.074	4+660.074						3.0						
59-D	24	R	4+660.074	4+669.464						9.4						
60-D	24	R	4+669.464	4+672.464						3.0						
61-D	24	R	4+683.597	4+687.597						4.0						
62-D	24	R	4+687.597	4+703.003						15.4						
63-D	24	R	4+717.877	4+720.877						3.0						
64-D	24	R	4+720.877	4+737.345							16.5					
65-D	25	R	4+747.178	4+750.178							3.0					
66-D	25	R	4+750.178	4+773.108							22.9					
67-D	25	R	4+773.108	4+776.108							3.0					
68-D	25	R	4+786.046	4+789.333							3.3					
69-D	25	R	4+789.333	4+845.495							56.2					
70-D	25	R	4+867.022	4+873.181							6.2					
71-D	25, 26	R	4+873.181	4+882.025							8.8					
72-D	26	R	4+885.710	4+889.310							3.6					
73-D	26	R	4+889.310	4+969.119							79.8					
74-D	26	L	4+948.452	4+951.452								3.0				
75-D	26	L	4+951.452	4+974.700								23.2				
76-D	26	L	4+987.555	4+990.555								3.0				
77-D	26	R	4+985.581	4+988.581							3.0					
78-D	26	R	4+988.581	5+004.697								16.1				
79-D	26, 27	L	4+990.555	5+029.443								38.9				
80-D	27	R	5+023.070	5+026.070								3.0				
81-D	27	R	5+026.070	5+051.959								25.9				
82-D	27	L	5+039.230	5+042.230								3.0				
83-D	27	L	5+042.230	5+066.771								24.5				
84-D	27	R	5+051.959	5+054.959								3.0				
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>										<b>134</b>	<b>251</b>	<b>144</b>				

CALCULATED <b>DCG</b> CHECKED	<b>DRAINAGE SUBSUMMARY</b>	<b>BUT - 27 - 13.147</b>	9 105
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REFERENCE NO.	SHEET NO.	SIDE	STATION TO STATION		603	603	603	603	603	603	603	602						
			FROM	TO	METER	METER	METER	METER	METER	METER	METER	METER	CU MET					
85-D	27	L	5+066.771	5+069.771							3.0							
86-D	27	R	5+068.600	5+071.600							3.0							
87-D	27	R	5+071.600	5+095.062							23.5							
88-D	27	L	5+080.764	5+084.135							3.4							
89-D	27	L	5+084.135	5+104.977							20.8							
90-D	27	R	5+095.062	5+098.062							3.0							
91-D	27	R	5+144.083	5+117.083							3.0							
92-D	27	R	5+117.083	5+145.825							28.7							
93-D	27	R	5+145.825	5+148.825							3.0							
94-D	27	L	5+153.887	5+156.887							3.0							
95-D	27, 28	R	5+158.699	5+161.699							3.0							
96-D	27, 28	L	5+156.887	5+171.781							14.9							
97-D	28	R	5+161.699	5+175.223							13.5							
98-D	28	L	5+171.781	5+174.781								3.0						
99-D	28	L	5+187.713	5+190.713								3.0						
100-D	28	R	5+185.171	5+188.171							3.0							
101-D	28	R	5+188.171	5+208.596							20.4							
102-D	28	L	5+190.713	5+200.803								10.1						
103-D	28	R	5+219.735	5+222.735							3.0							
104-D	28	L	5+225.333	5+231.668								6.3						
105-D	28	R	5+222.735	5+233.239							10.5							
106-D	28	L	5+231.668	5+239.603								7.9						
107-D	28	R	5+245.559	5+248.559							3.0							
108-D	28	R	5+248.559	5+276.409								27.9						
109-D	28	L	5+250.711	5+270.825								20.1						
110-D	28	R	5+288.779	5+291.779								3.0						
111-D	28, 29	R	5+291.779	5+326.307								34.5						
112-D	29	R	5+336.327	5+339.327								3.0						
113-D	29	R	5+339.327	5+343.956								4.6						
114-D	29	R	5+410.015	5+422.938								12.9						
115-D	29	R	5+422.938	5+425.938								3.0						
116-D	30	R	5+444.361	5+476.303								31.9						
117-D	30	R	5+476.303	5+479.303							3.0							
118-D	30	R	5+503.809	5+515.317							11.5							
119-D	30	R	5+515.317	5+518.317							3.0							
120-D	30	R	5+528.244	5+551.888							23.9							
121-D	30	R	5+552.163	5+551.888			1.0											
122-D	31	R	5+625.482	5+628.482								3.0						
123-D	31	R	5+637.357	5+656.785								19.4						
124-D	31	R	5+656.785	5+659.785								3.0						
125-D	31	R	5+669.699	5+680.000								10.3						
126-D	34	R	6+093.160	6+114.850								21.7						
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>							<b>1</b>				<b>41</b>	<b>222</b>	<b>172</b>					

CALCULATED <b>DCG</b>	CHECKED
<b>DRAINAGE SUBSUMMARY</b>	
<b>BUT-27-13.147</b>	
10 105	

REFERENCE NO.	SHEET NO.	SIDE	STATION TO STATION		603		603		603		603		603		602		601		
			FROM	TO	METER	METER	METER	METER	METER	METER	METER	METER	CU MET	CU MET					
127-D	34	L	6+114.850	6+117.850							3.0								
128-D	34, 35	L	6+132.556	6+149.210							16.7								
129-D	35	L	6+149.210	6+152.210							3.0								
130-D	35	L	6+487.597	6+215.407							27.8								
131-D	35	L	6+215.407	6+218.407							3.0								
132-D	35	L	6+233.221	6+245.370							12.1								
133-D	35	L	6+245.370	6+248.370							3.0								
134-D	35	R	6+233.792	6+242.792				9.0											
135-D	35	R	6+255.144	6+270.496				15.4											
136-D	35, 36	R	6+270.496	6+310.221				39.7					0.39	23.8					
137-D	36	L	6+297.327	6+300.327							3.0								
138-D	36	L	6+300.327	6+320.005							19.7		0.29	9.3					
139-D	14	R	3+333.982	3+339.988															
140-D	15	R	3+372.361	3+383.927															
141-D	15	R	3+393.875	3+402.768															
142-D	15	R	3+413.652	3+419.651															
143-D	15	R	3+430.868	3+437.145															
144-D	15	R	3+437.145	3+467.967															
145-D	15,16	R	3+477.898	3+489.897															
146-D	16,17	R	3+588.729	3+628.291									39.6						
147-D	22	L	4+323.777	4+327.206							3.4								
148-D	22	L	4+327.206	4+355.780							28.6								
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>											<b>64</b>		<b>104</b>	<b>101</b>	<b>40</b>	<b>.7</b>	<b>33</b>		

CALCULATED DCG	CHECKED
<b>DRAINAGE SUBSUMMARY</b>	
<b>BUT - 27 - 13.147</b>	
11 105	

REFERENCE NO.	SHEET NO.	SIDE	STATION	604					452									
				CATCH BASIN NO. 4	CATCH BASIN NO. 2-4	CATCH BASIN NO. 2-3	CATCH BASIN NO. 2-2B	CATCH BASIN NO. 2-3 RECONSTRUCT TO GRADE	PLAIN PORTLAND CEMENT CONCRETE PAVEMENT									
				EACH	EACH	EACH	EACH	EACH	SQ MET									
1-CB	14	L	3+283.074	/														
2-CB	14	L	3+320.848			/												
3-CB	14	R	3+320.022			/												
4-CB	15	L	3+382.268				/											
5-CB	15	L	3+431.844				/											
6-CB	16	L	3+500.091				/											
7-CB	21	R	4+213.480				/											
8-CB	21	R	4+247.802				/											
9-CB	21	L	4+252.241					/										
10-CB	21	R	4+274.578	/														
11-CB	21	L	4+274.969	/														
12-CB	21,40	L	4+275.171 (0+022.094)	/	/													
13-CB	40	L	4+276.592 (0+061.507)	/														
14-CB	40A	L	4+248.046 (0+098.431)	/	/													
15-CB	40A	R	(0+148.187)	/														
16-CB	22	R	4+353.827	/														
17-CB	22	R	4+413.697	/														
18-CB	23	R	4+460.362	/														
19-CB	23	L	4+467.930				/											
20-CB	23	L	4+498.740				/											
21-CB	23	R	4+506.511		/													
22-CB	23	L	4+533.506				/											
23-CB	23	R	4+534.073				/											
24-CB	23	R	4+548.693				/											
25-CB	23	L	4+560.557				/											
26-CB	23	R	4+564.617	/														
27-CB	23	L	4+590.018				/											
28-CB	23	R	4+596.087	/														
29-CB	24	L	4+622.681				/											
30-CB	24	R	4+627.408				/											
31-CB	24	R	4+641.626				/											
32-CB	24	R	4+660.074				/											
33-CB	24	R	4+669.464				/											
34-CB	24	R	4+687.597	/														
35-CB	24	R	4+720.877	/														
36-CB	25	R	4+750.178				/											
37-CB	25	R	4+773.108				/											
38-CB	25	R	4+789.333				/											
39-CB	25	R	4+873.181				/											
40-CB	26	R	4+889.310				/											
41-CB	26	R	4+951.452				/											
42-CB	26	R	4+988.581				/											
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>12</b>	<b>3</b>	<b>8</b>	<b>18</b>	<b>1</b>										

**DRAINAGE SUBSUMMARY**

**BUT - 27 - 13.147**

12  
105

CALCULATED  
DCG  
CHECKED

REFERENCE NO.	SHEET NO.	SIDE	STATION	604					452							
				CATCH BASIN NO. 4	CATCH BASIN NO. 2-4	CATCH BASIN NO. 2-3	CATCH BASIN NO. 2-2B	CATCH BASIN NO. 2-3 RECONSTRUCT TO GRADE	PLAIN PORTLAND CEMENT CONCRETE PAVEMENT							
				EACH	EACH	EACH	EACH	EACH	SQ MET							
43-CB	26	L	4+990.555				/									
44-CB	27	R	5+026.070				/									
45-CB	27	L	5+042.230				/									
46-CB	27	R	5+051.959				/									
47-CB	27	L	5+066.771				/									
48-CB	27	R	5+071.600				/									
49-CB	27	L	5+084.135				/									
50-CB	27	R	5+095.062				/									
51-CB	27	L	5+104.977				/									
52-CB	27	R	5+117.083				/									
53-CB	27	R	5+145.825				/									
54-CB	27	L	5+156.887				/									
55-CB	28	R	5+161.699				/									
56-CB	28	L	5+171.781				/									
57-CB	28	R	5+188.171				/									
58-CB	28	L	5+190.713				/									
59-CB	28	R	5+222.735				/									
60-CB	28	L	5+231.668				/									
61-CB	28	R	5+248.559				/									
62-CB	28	R	5+291.779				/									
63-CB	29	R	5+339.327				/									
64-CB	29	R	5+422.938				/									
65-CB	30	R	5+476.303				/									
66-CB	30	R	5+515.317				/									
67-CB	30	R	5+551.888	/												
68-CB	31	R	5+625.482				/									
69-CB	31	R	5+656.785				/									
70-CB	34	L	6+114.850				/									
71-CB	35	L	6+149.210				/									
72-CB	35	L	6+215.407				/									
73-CB	35	L	6+245.370				/									
74-CB	35	R	6+270.496	/												
75-CB	36	L	6+300.327			/										
76-CB	15	R	3+437.145				/									
77-CB	16	R	3+588.729				/									
78-CB	17	R	3+628.291				/									
79-CB	22	L	4+327.206				/									
80-CB	22	L	4+397.500				/									
81-CB	22	L	4+415.315				/									
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>2</b>		<b>1</b>	<b>36</b>									

REFERENCE NO.	SHEET NO.	SIDE	STATION	202	202	202		203	304		452		660					
				PAVEMENT REMOVED	STRUCTURE REMOVED	PIPE REMOVED		EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	AGGREGATE BASE		PLAIN PORTLAND CEMENT CONCRETE PAVEMENT		SODDING					
				SQ MET	EACH	METER		CU METER	CU M		SQ MET		SQ MET					
1-R	13	L	3+282.536		1													
2-R	13	R	3+276.855		1													
3-R	21	R	4+274.619		1													
4-R	21	L	4+274.927		1													
5-R	21	L	4+253.255 TO 4+268.683			15.3												
6-R	22	L	4+399.448 TO 4+411.715			12.3												
7-R	30	R	5+552.163		1													
8-R	40A	L	0+166.588			11.4												
1-E	15	R	3+340.000 TO 3+327.361										38.7					
2-E	15	R	3+420.768 TO 3+413.652										16.4					
1-P	15	R	3+384.336					3.4	3.4									
2-P	15	R	3+393.833					3.3	3.3									
3-P	20	L	4+168.000	18.7							18.7							
4-P	21	L	4+262.000	10.4							10.4							
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>29</b>	<b>5</b>	<b>39</b>		<b>7</b>	<b>7</b>		<b>29</b>		<b>55</b>					

CALCULATED <b>DCG</b>	CHECKED
<b>SUBSUMMARY</b>	
<b>BUT -27 -13.147</b>	
(13A) 105	



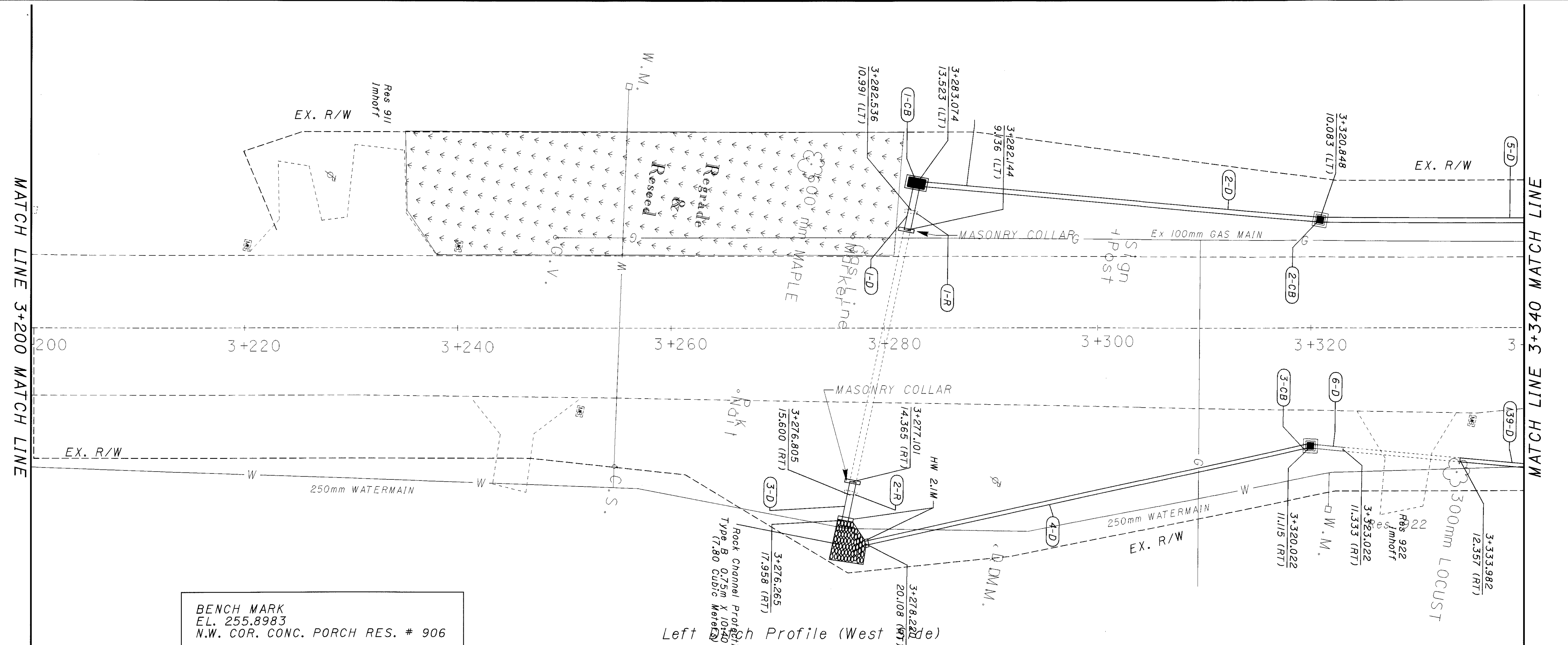
HORIZONTAL SCALE IN METERS

CALCULATED  
PCC  
CHECKED

# PLAN AND PROFILE

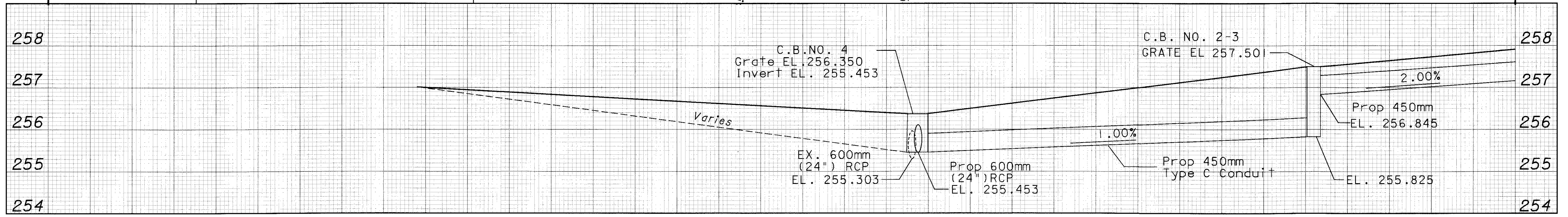
BUT-27-13.147

14  
105

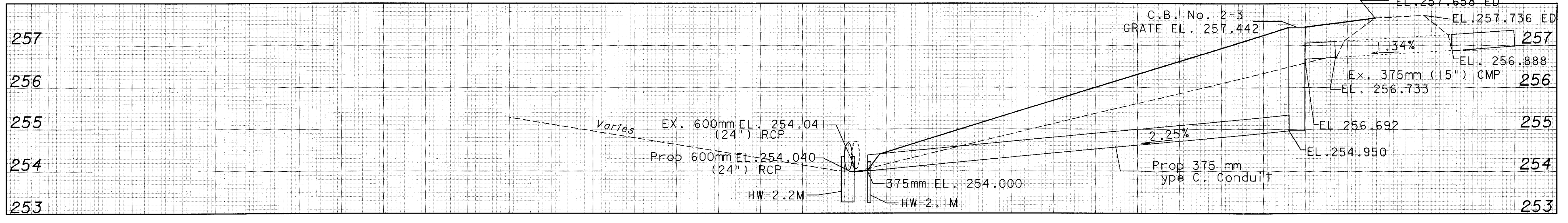


BENCH MARK  
 EL. 255.8983  
 N.W. COR. CONC. PORCH RES. # 906

Left Ditch Profile (West Side)



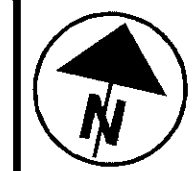
Right Ditch Profile (East Side)



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HORIZONTAL SCALE IN METERS

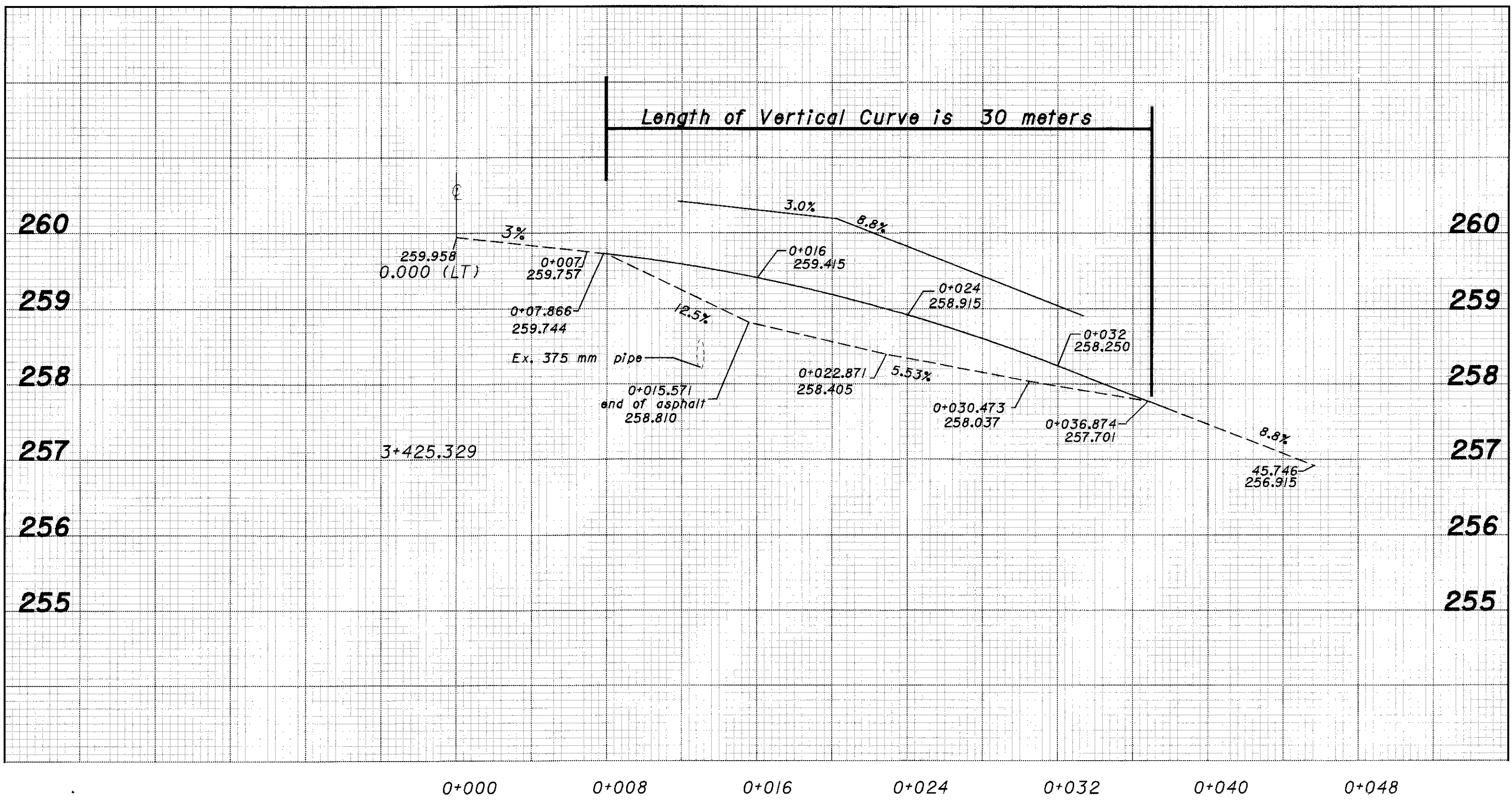
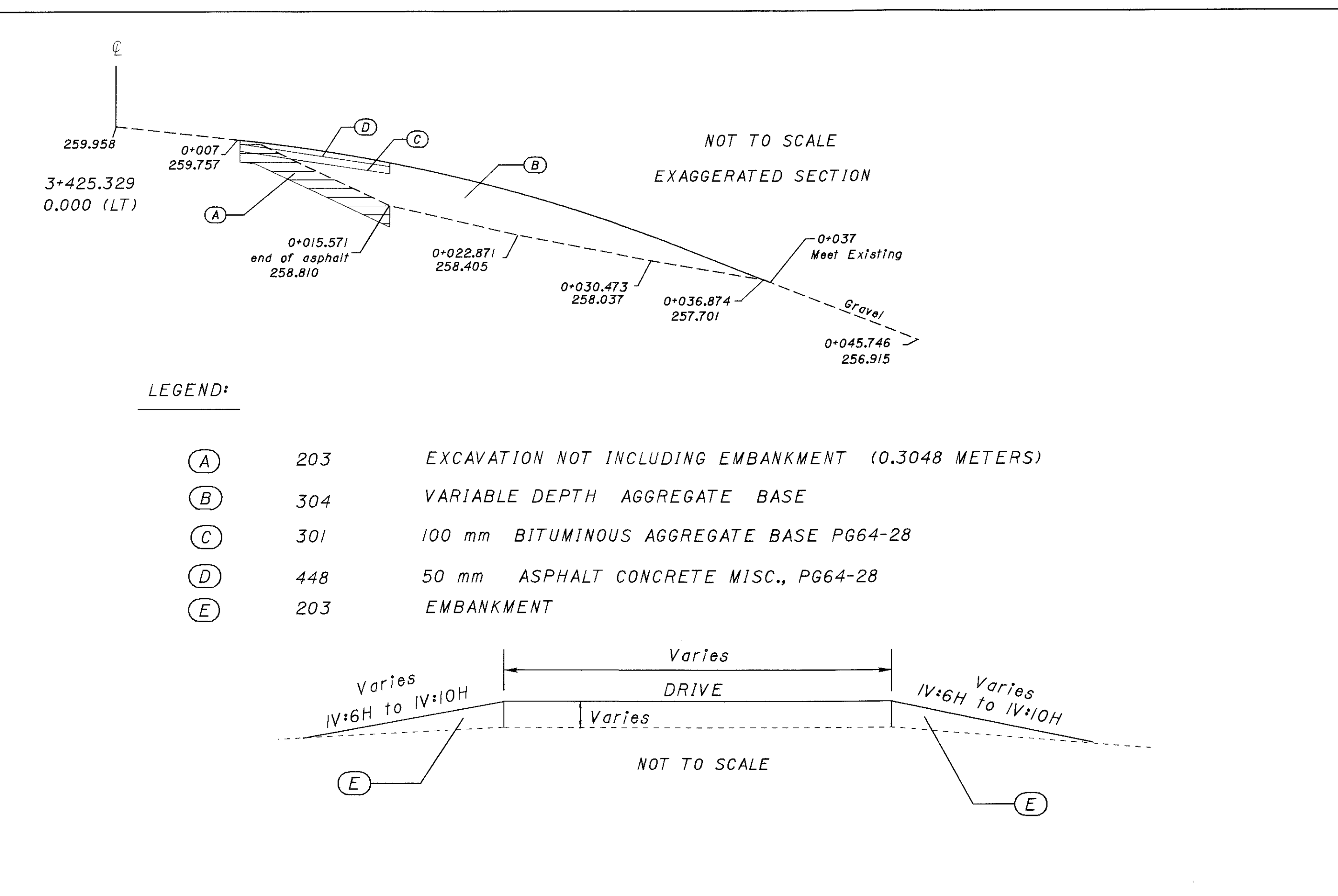
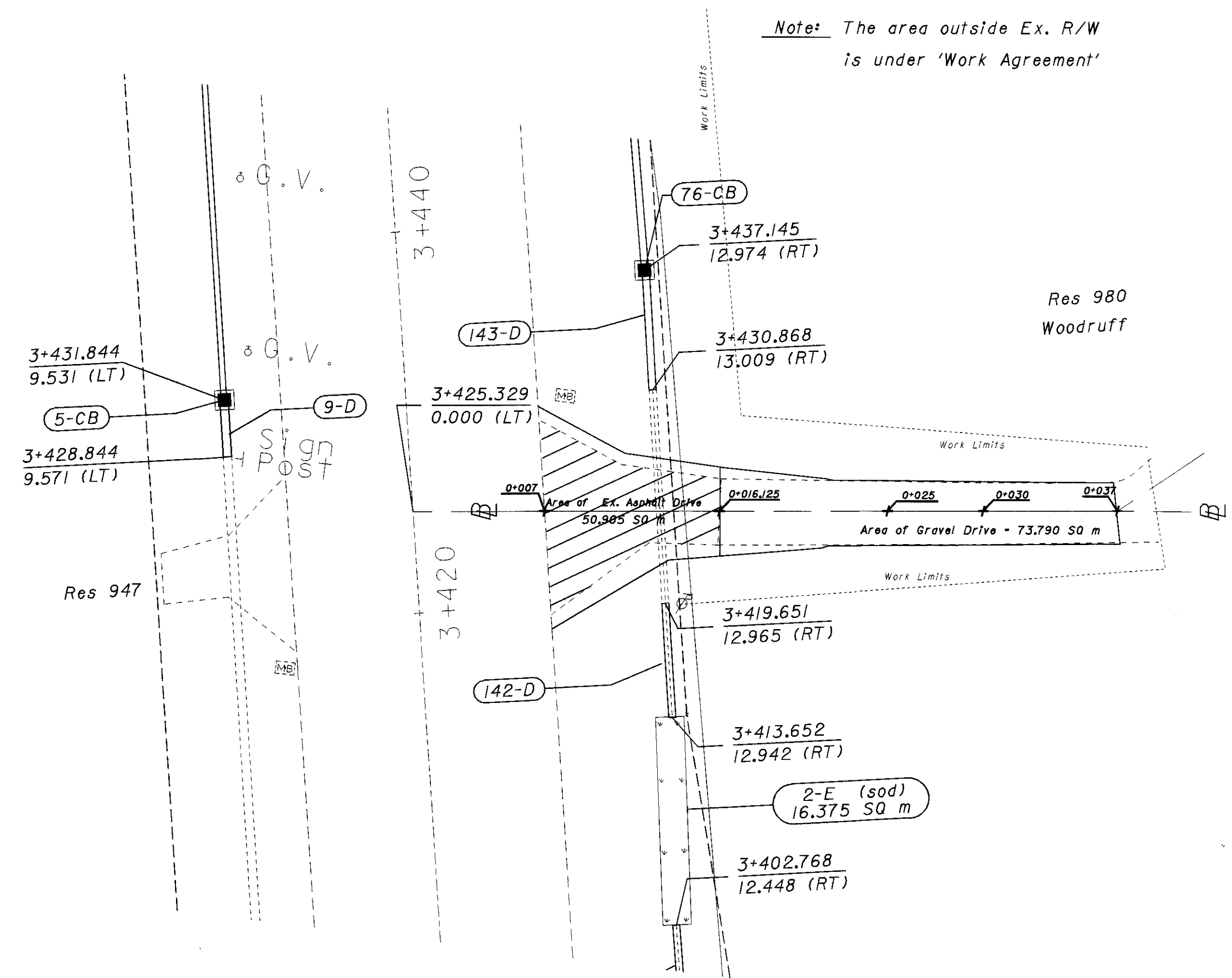
CALCULATED PCC CHECKED

PLAN AND PROFILE ( DRIVEWAY )

BUT-27-13.147

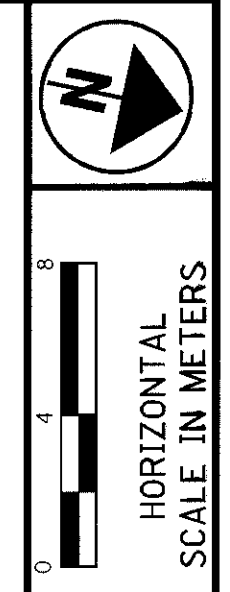
15A 105

Note: The area outside Ex. R/W is under 'Work Agreement'



REF NO.	STATION	203	203	304	301	448
		EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	EMBANKMENT CONSTRUCTION	AGGREGATE BASE	BITUMINOUS AGGREGATE BASE PG64-22	ASPHALT CONCRETE MISC.
		CU METER	CU METER	CU METER	CU METER	CU METER
A	0+007 to 0+015.571	20				
B	0+007 to 0+038			52		
C	0+007 to 0+015.571				7	
D	0+007 to 0+015.571					4
E	0+013 to 0+038 (LT & RT)		22			
TOTALS CARRIED TO GENERAL SUMMARY		20	22	52	7	4

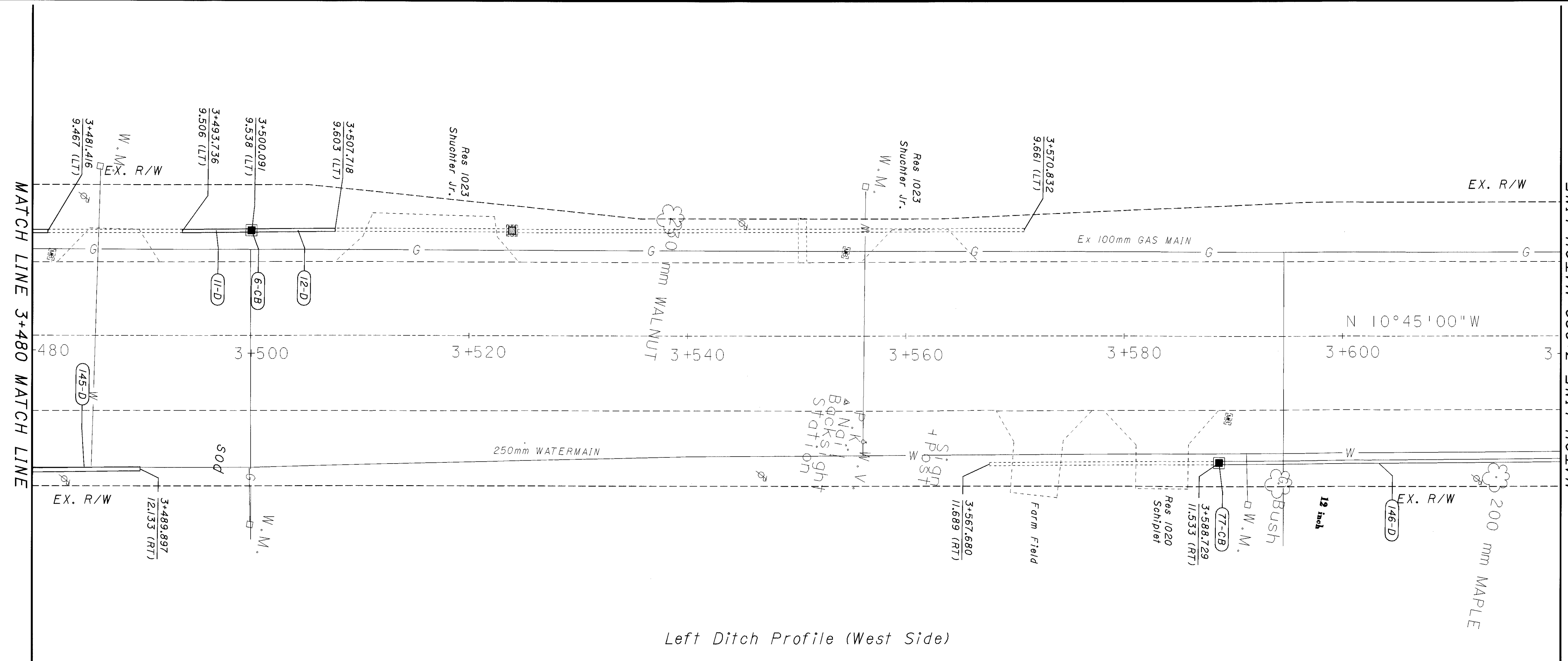
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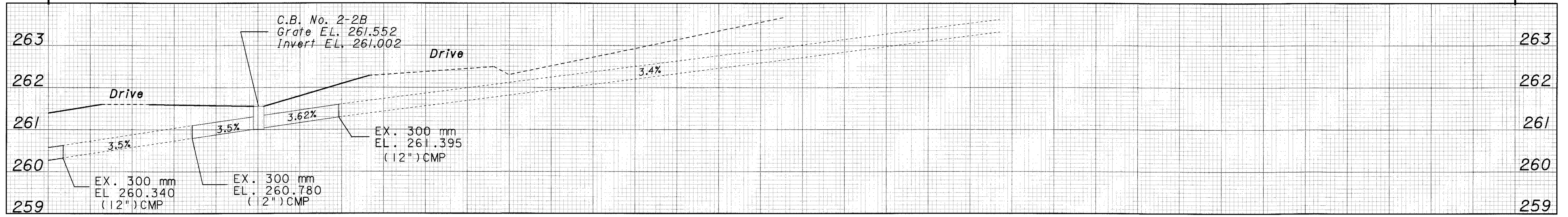
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CHECKED

**PLAN AND PROFILE**

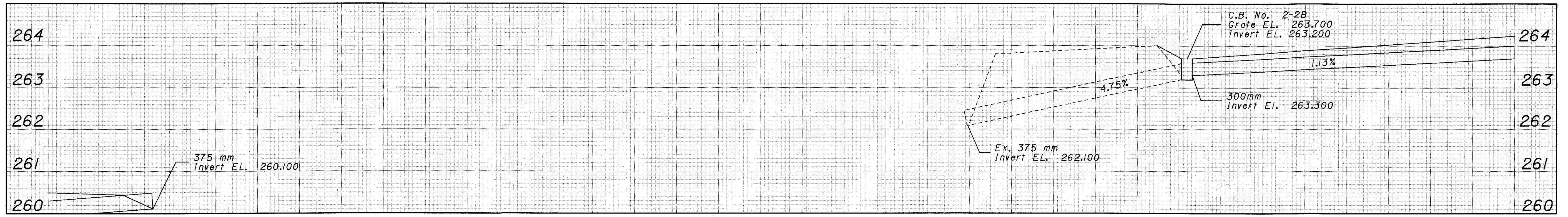
**BUT - 27 - 13.147**



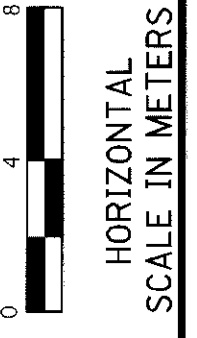
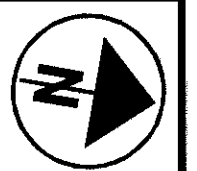
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



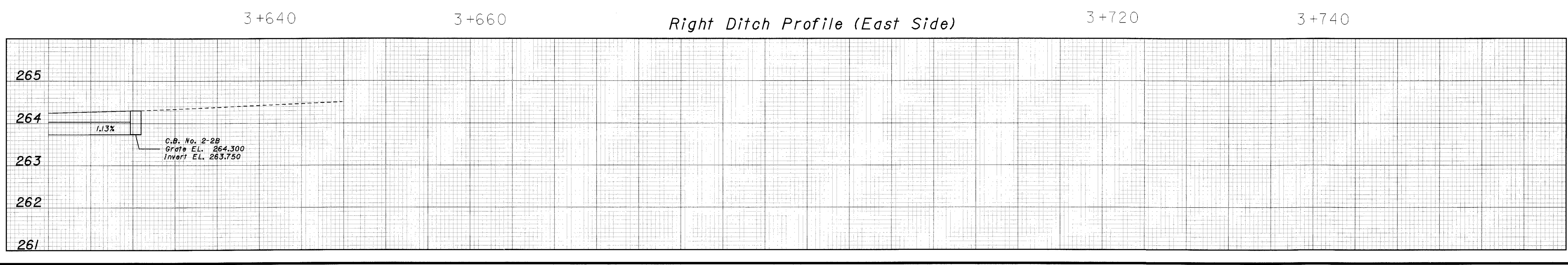
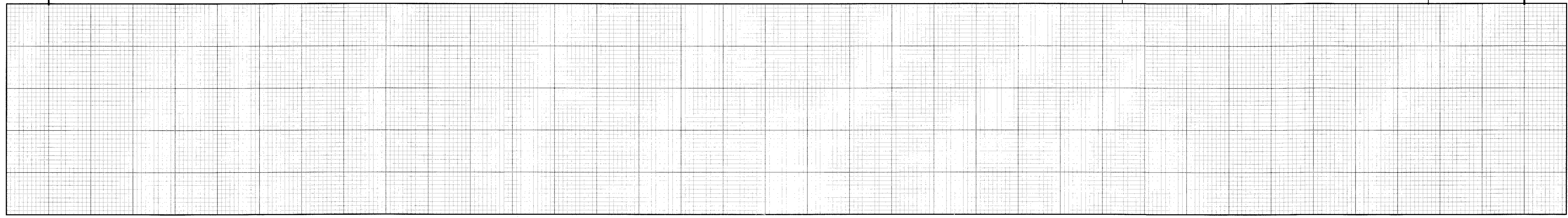
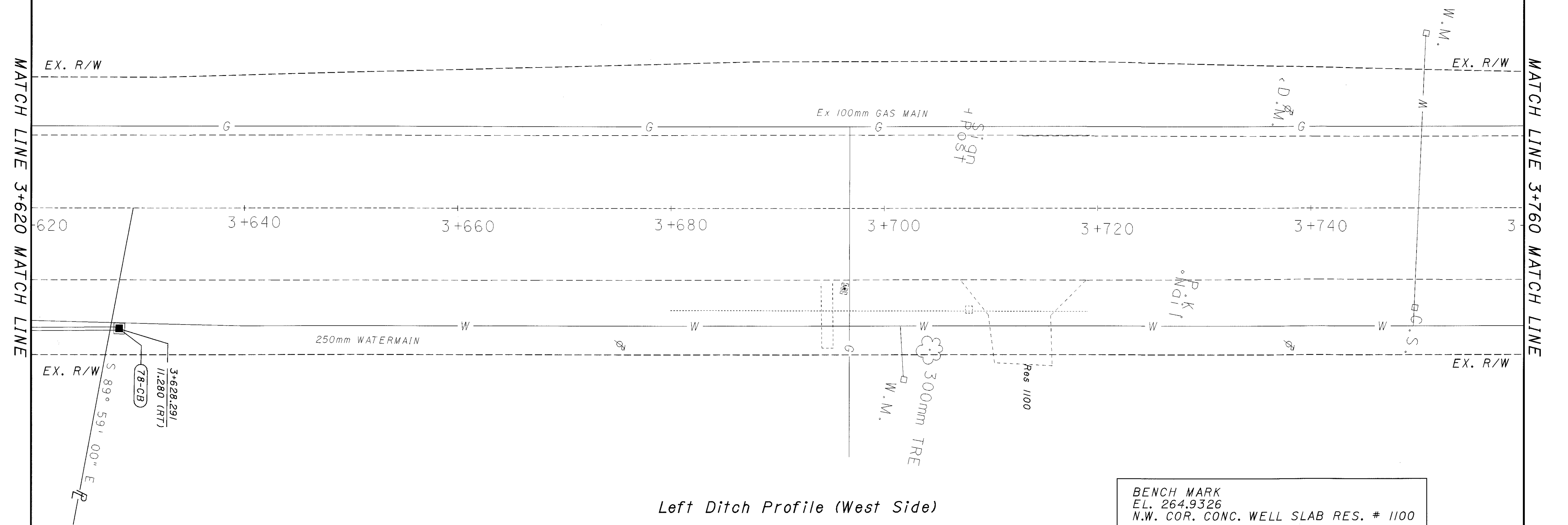
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CALCULATED  
PCC  
CHECKED

**PLAN AND PROFILE**

**BUT-27-13.147**



MATCH LINE 3+760 MATCH LINE

EX. R/W

650  
First Millville  
Baptist Church

Ex 100mm GAS MAIN

EX. R/W

3+760

3+780

3+800

R/W

3+820

3+840

3+860

3+880

3+900

EX. R/W

250mm WATERMAIN

Sign  
Post

EX. R/W

Farm Drive

Left Ditch Profile (West Side)

MATCH LINE 3+900 MATCH LINE

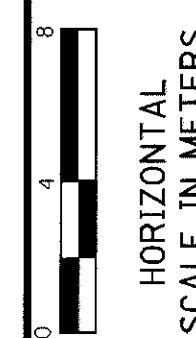
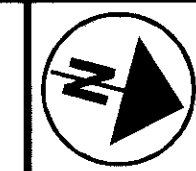
3+780

3+800

Right Ditch Profile (East Side)

3+860

3+880



CALCULATED  
PCC  
CHECKED

PLAN AND PROFILE

BUT-27-13.147

MATCH LINE 3+900 MATCH LINE

EX. R/W

EX. R/W

3+900

3+920

3+940

3+960

3+980

4+000

4+020

MATCH LINE 4+040 MATCH LINE

EX. R/W

EX. R/W

Left Ditch Profile (West Side)

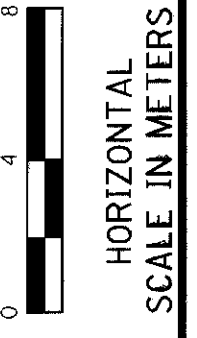
3+920

3+940

Right Ditch Profile (East Side)

4+000

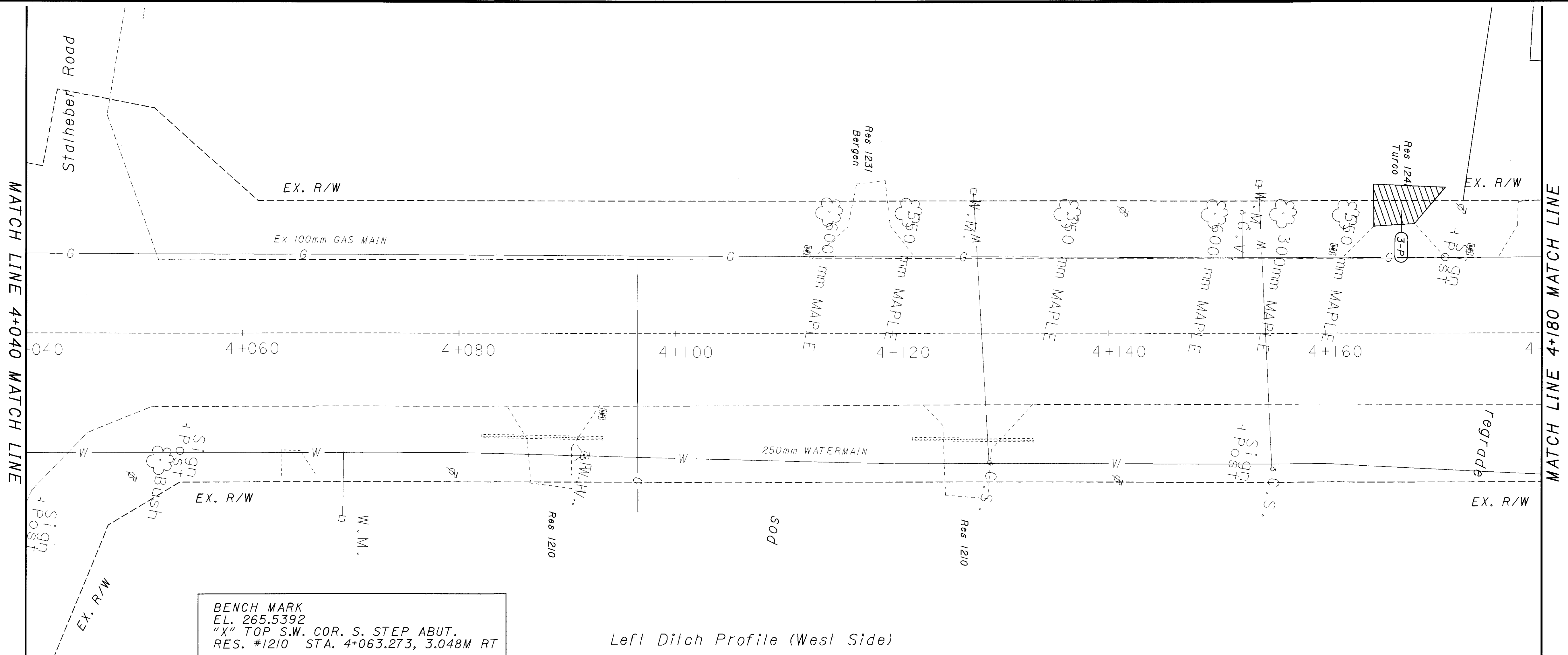
4+020



CALCULATED  
PCC  
CHECKED

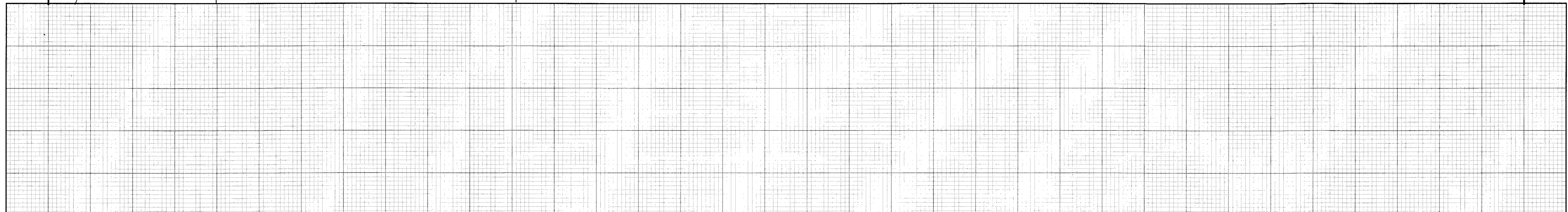
PLAN AND PROFILE

BUT-27-13.147

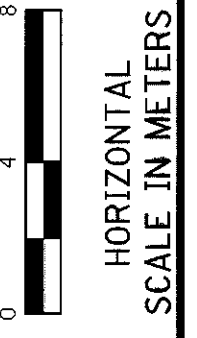
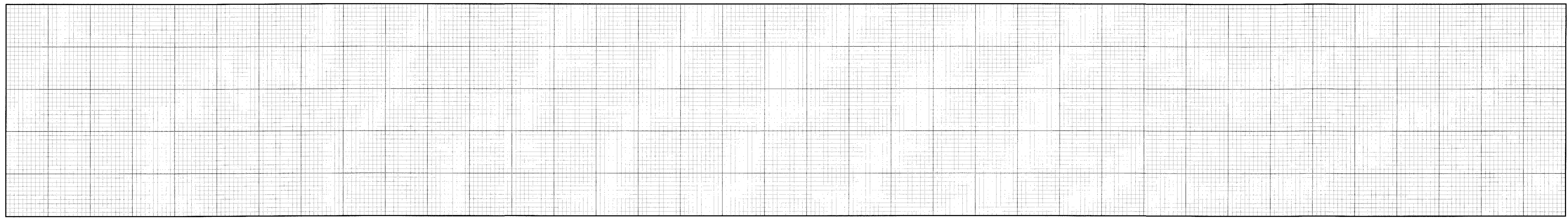


BENCH MARK  
 EL. 265.5392  
 "X" TOP S.W. COR. S. STEP ABUT.  
 RES. #1210 STA. 4+063.273, 3.048M RT

Left Ditch Profile (West Side)



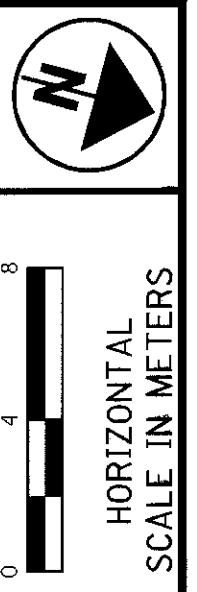
Right Ditch Profile (East Side)



CALCULATED PCC CHECKED

PLAN AND PROFILE

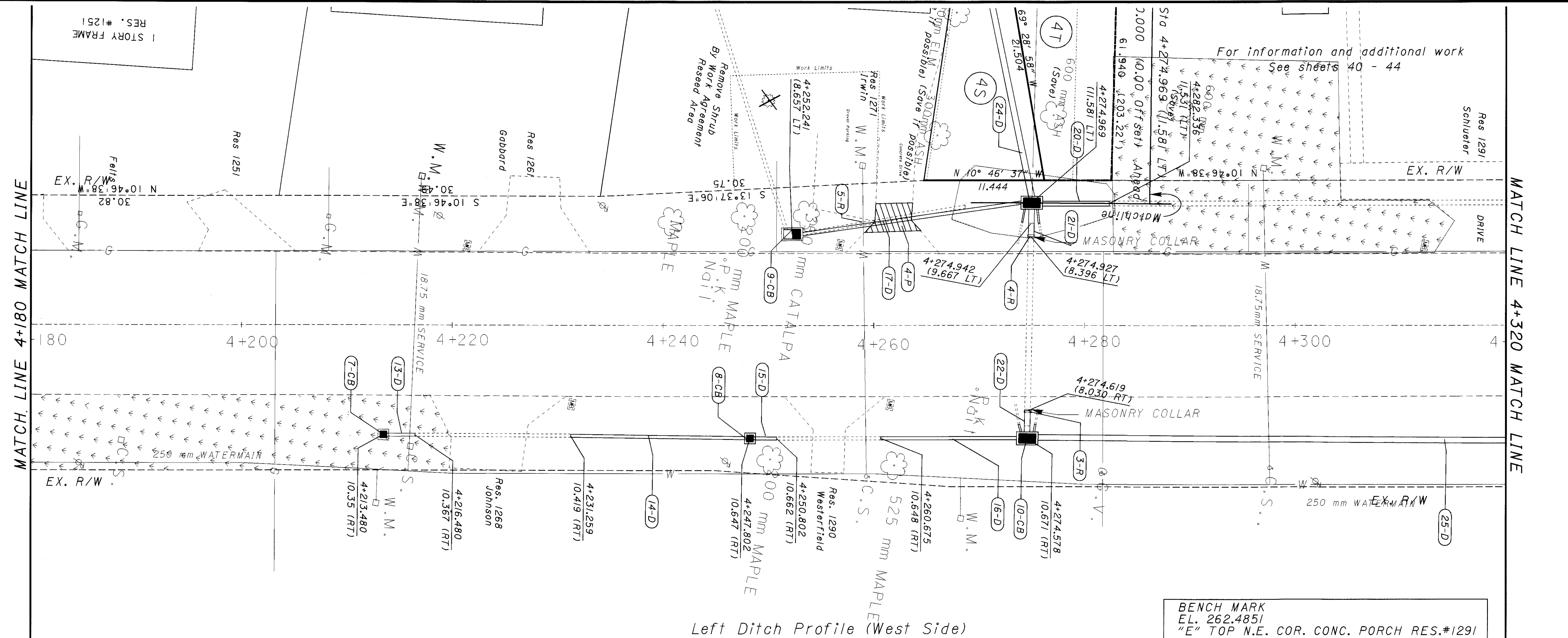
BUT-27-13.147



CALCULATED  
PCC  
CHECKED

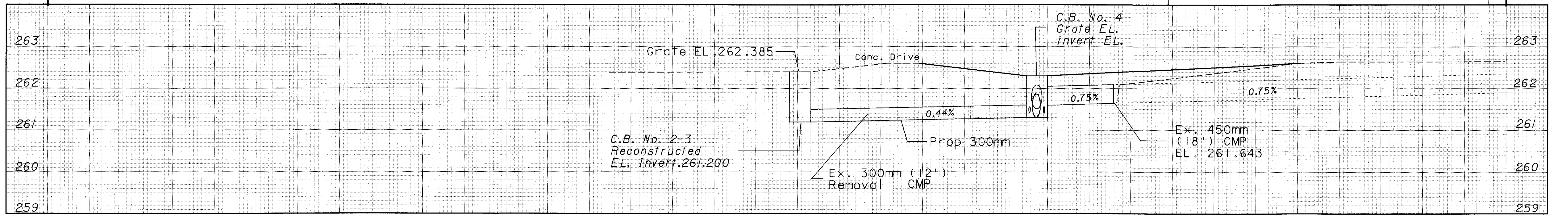
**PLAN AND PROFILE**

**BUT - 27 - 13.147**

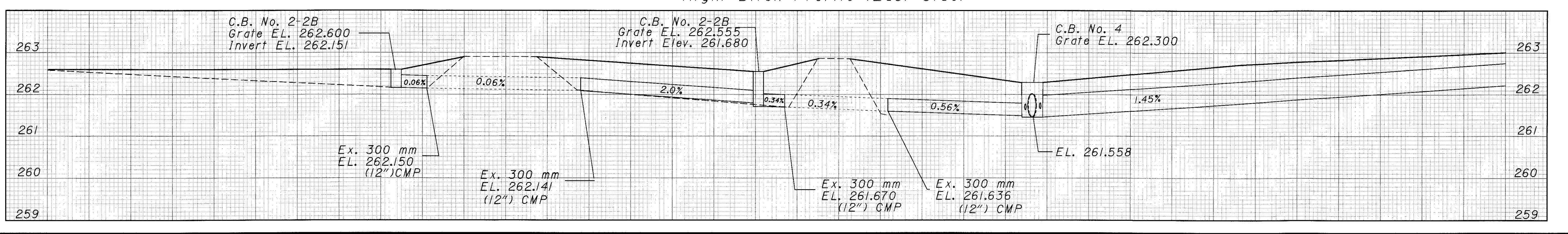


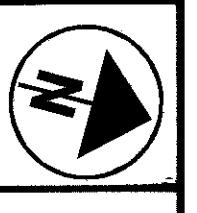
Left Ditch Profile (West Side)

BENCH MARK  
EL. 262.4851  
"E" TOP N.E. COR. CONC. PORCH RES.#1291



Right Ditch Profile (East Side)



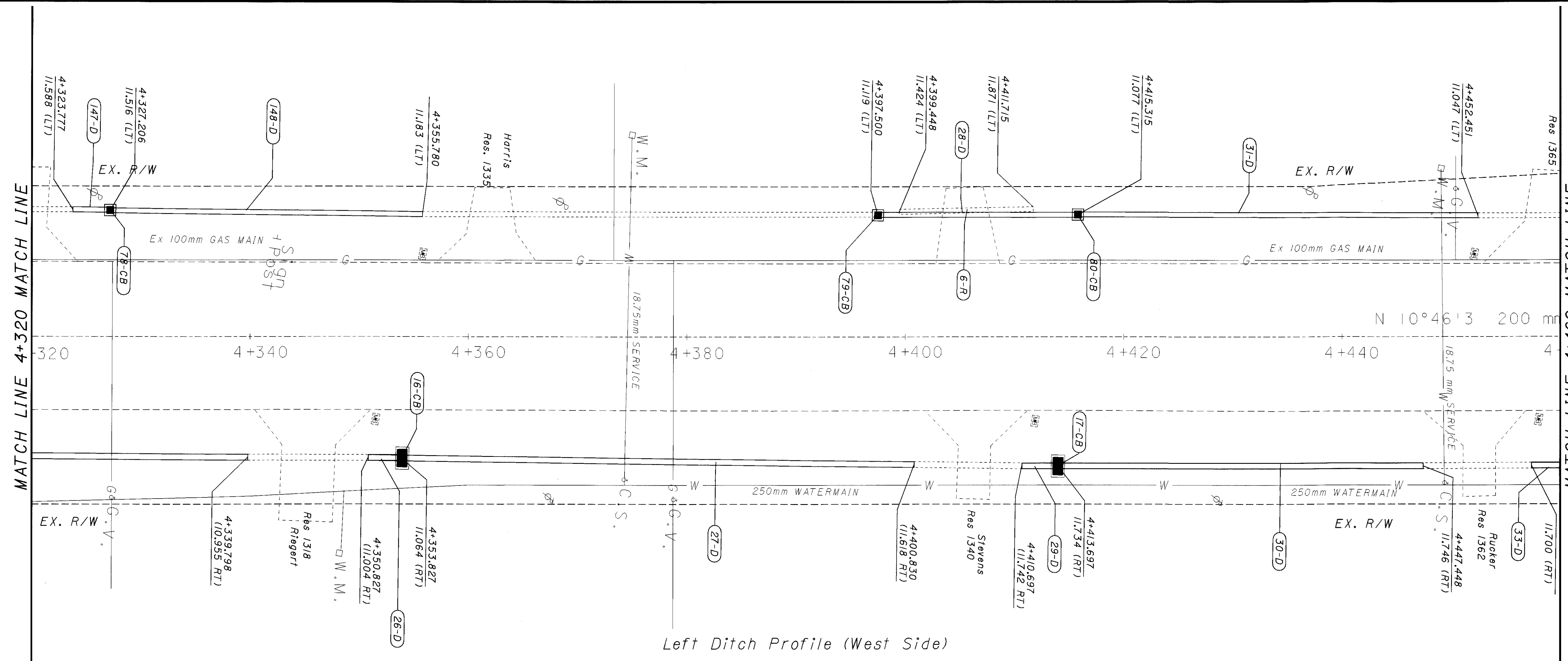


HORIZONTAL SCALE IN METERS

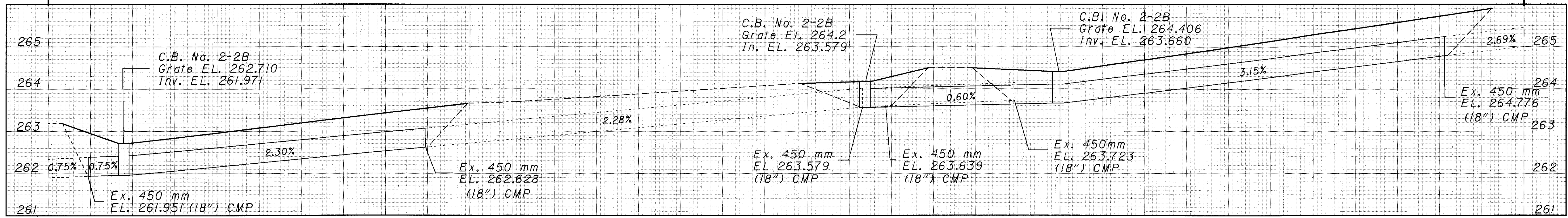
CALCULATED PCC CHECKED

# PLAN AND PROFILE

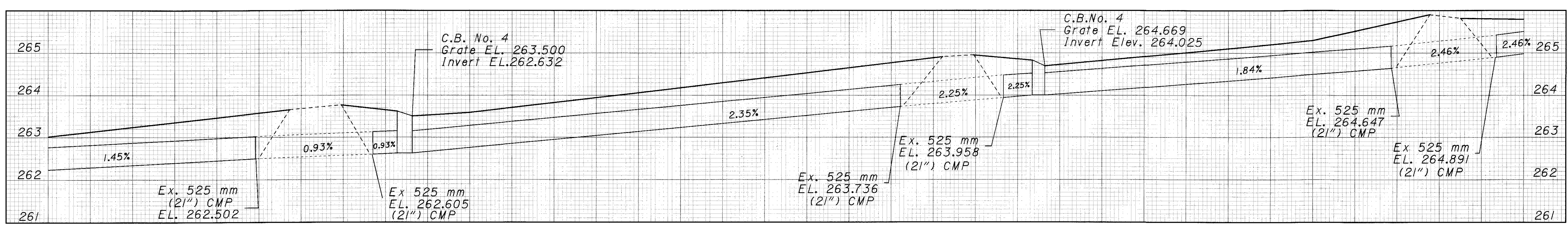
BUT-27-13.147



Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



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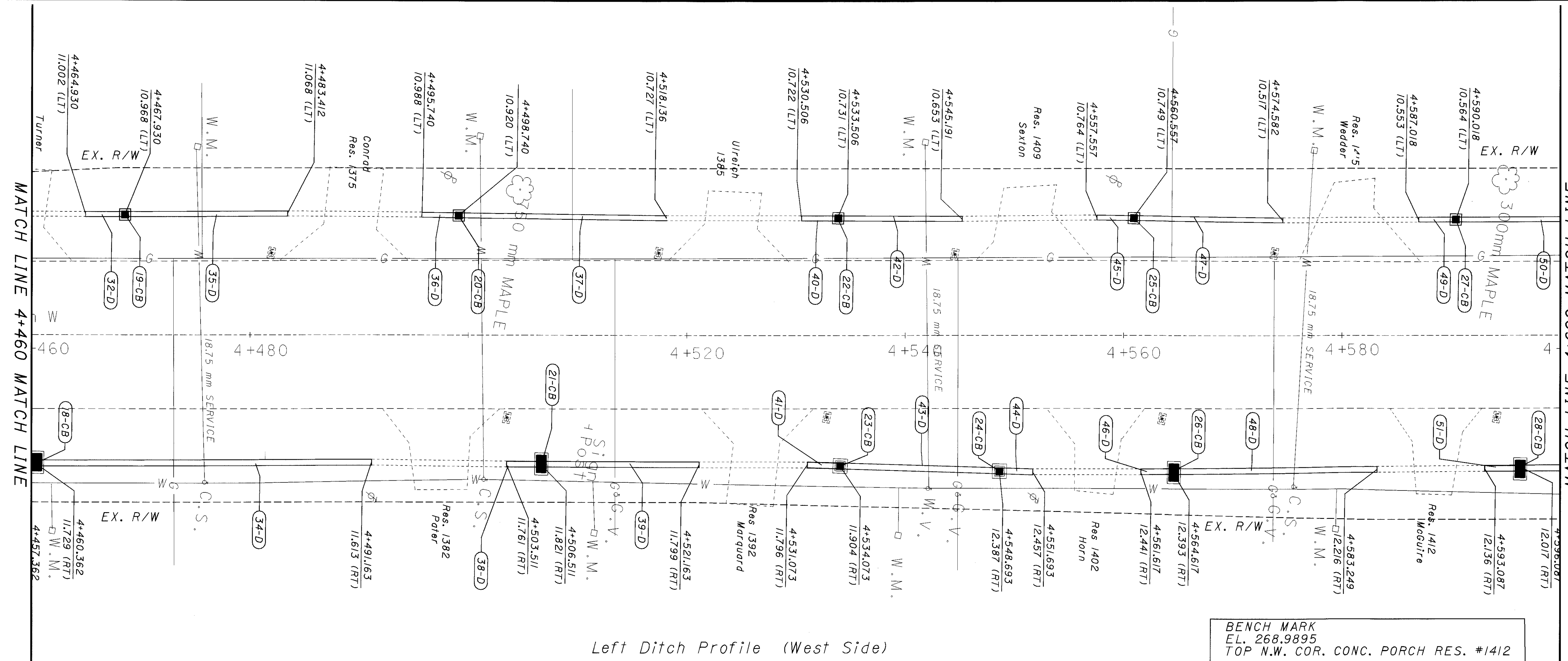


HORIZONTAL SCALE IN METERS

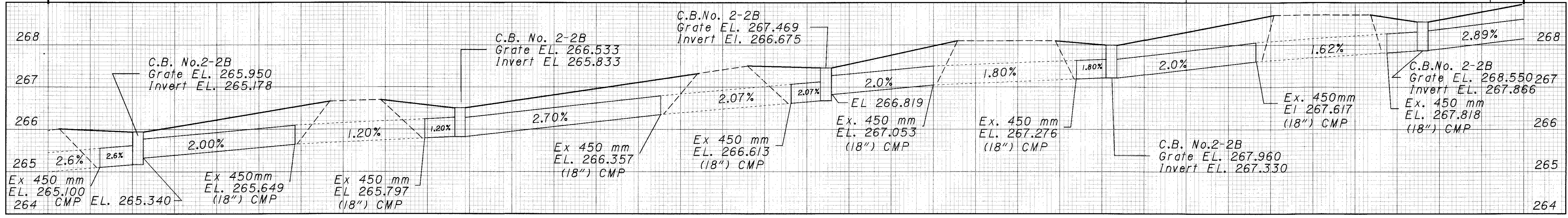
CALCULATED PCC CHECKED

PLAN AND PROFILE

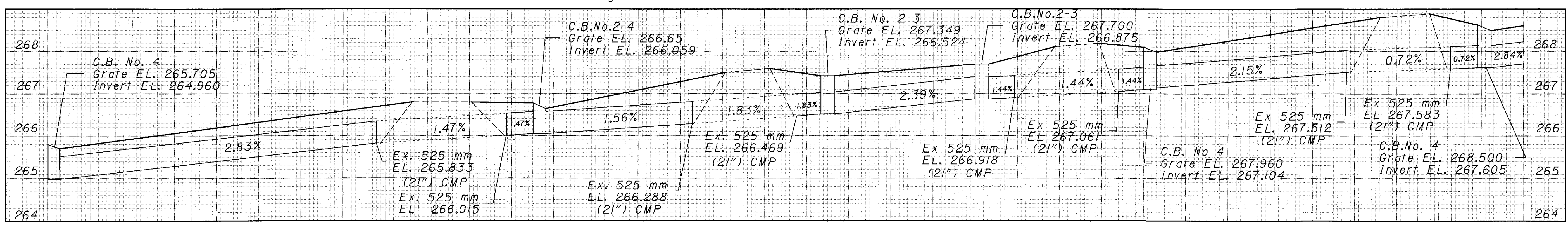
BUT - 27 - 13.147



Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



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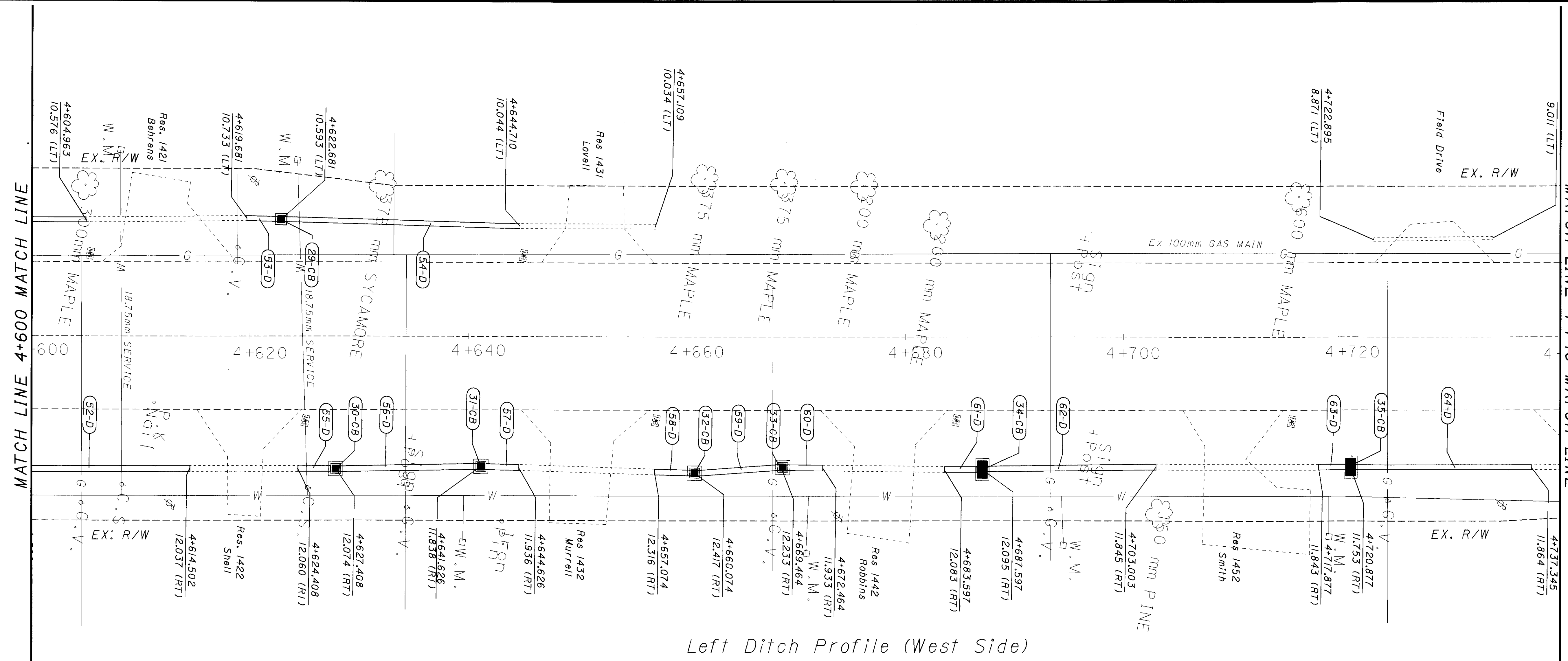


HORIZONTAL SCALE IN METERS

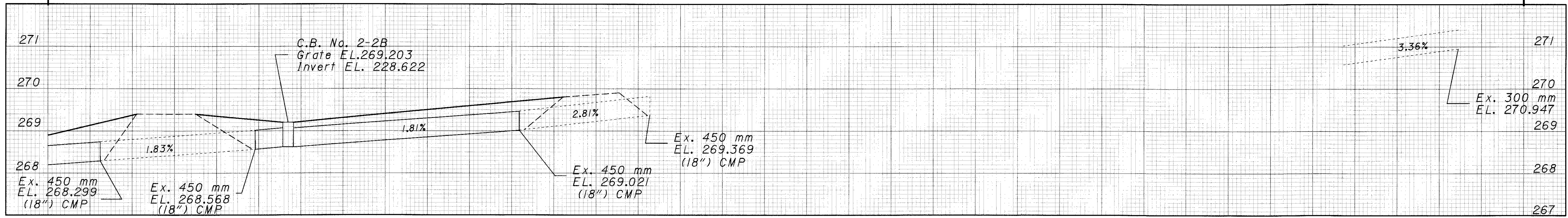
CALCULATED PCC CHECKED

# PLAN AND PROFILE

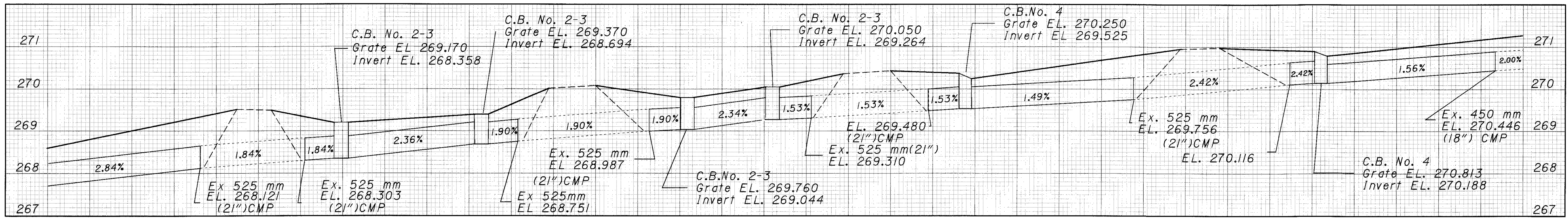
## BUT-27-13.141



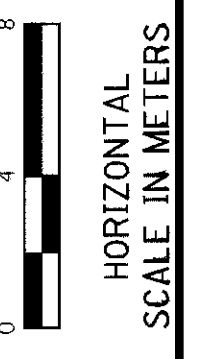
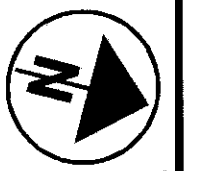
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



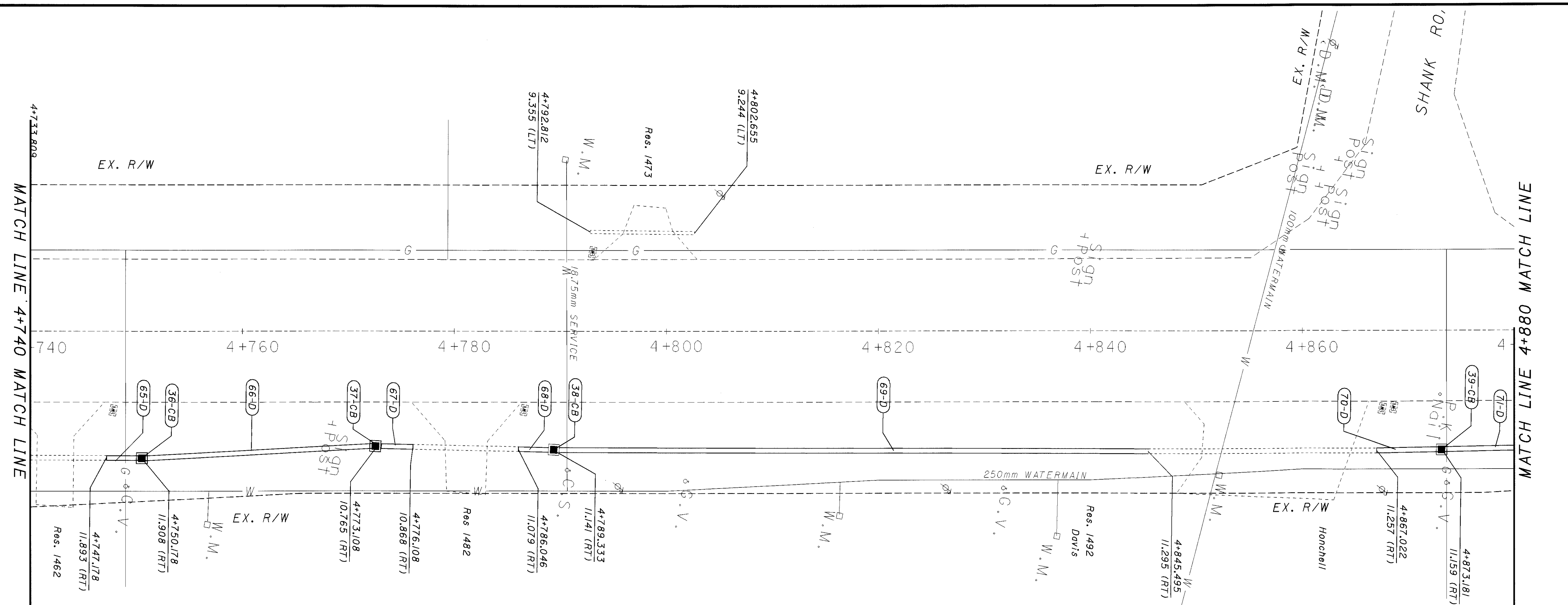
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CALCULATED  
PCC  
CHECKED

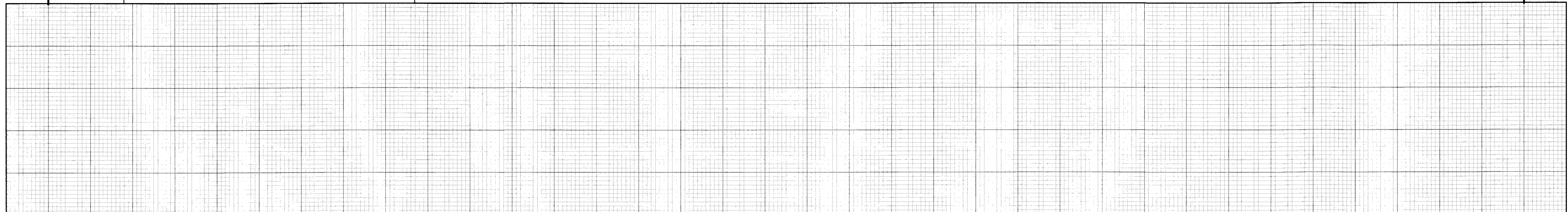
**PLAN AND PROFILE**

**BUT-27-13.147**

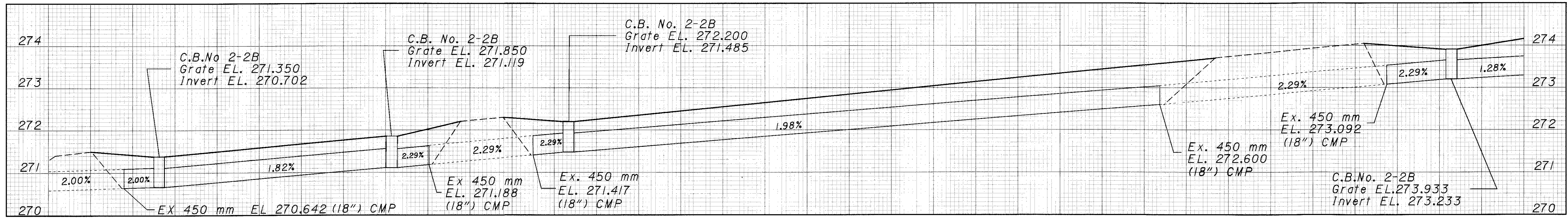


BENCH MARK  
EL. 273.1714  
TOP N.W. COR. CONC. PORCH RES.#1482

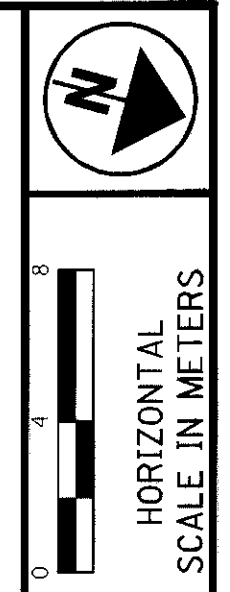
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



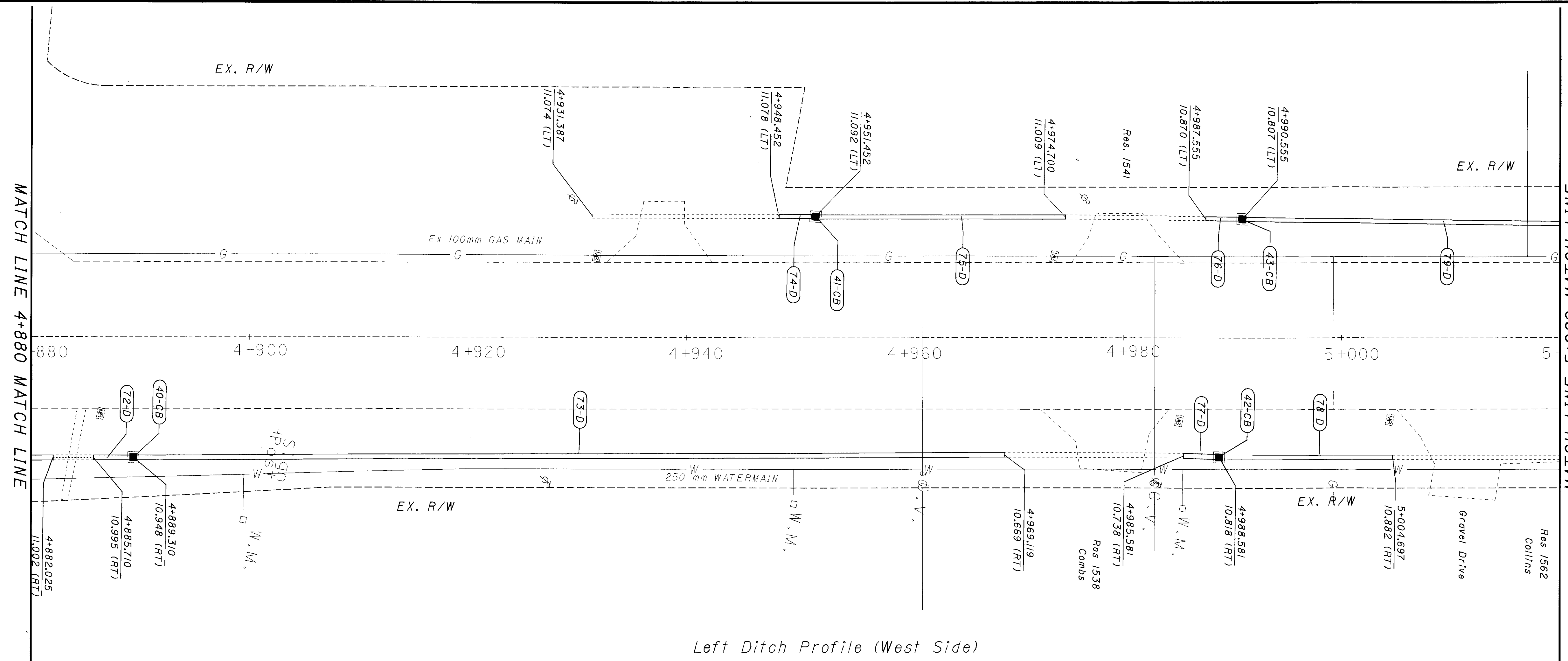
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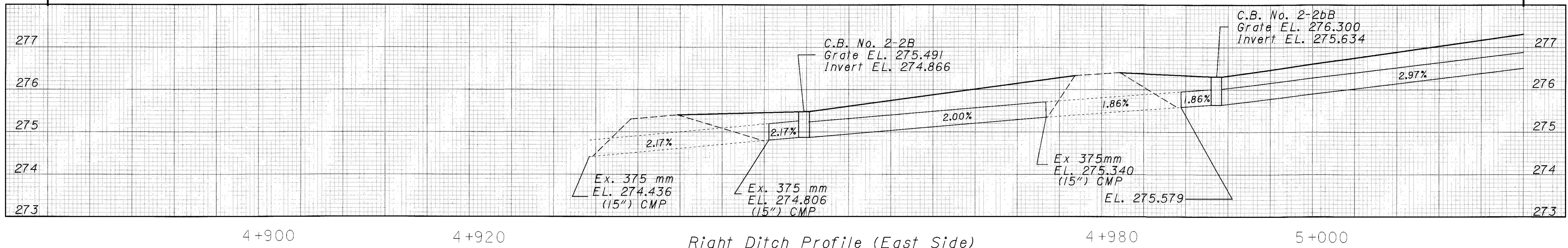
CALCULATED  
PCC  
CHECKED

**PLAN AND PROFILE**

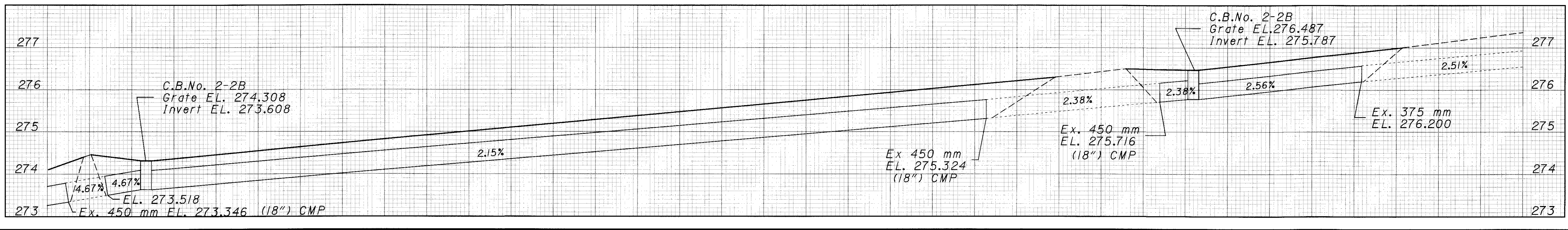
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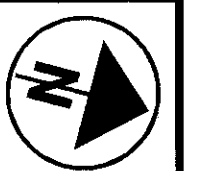
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



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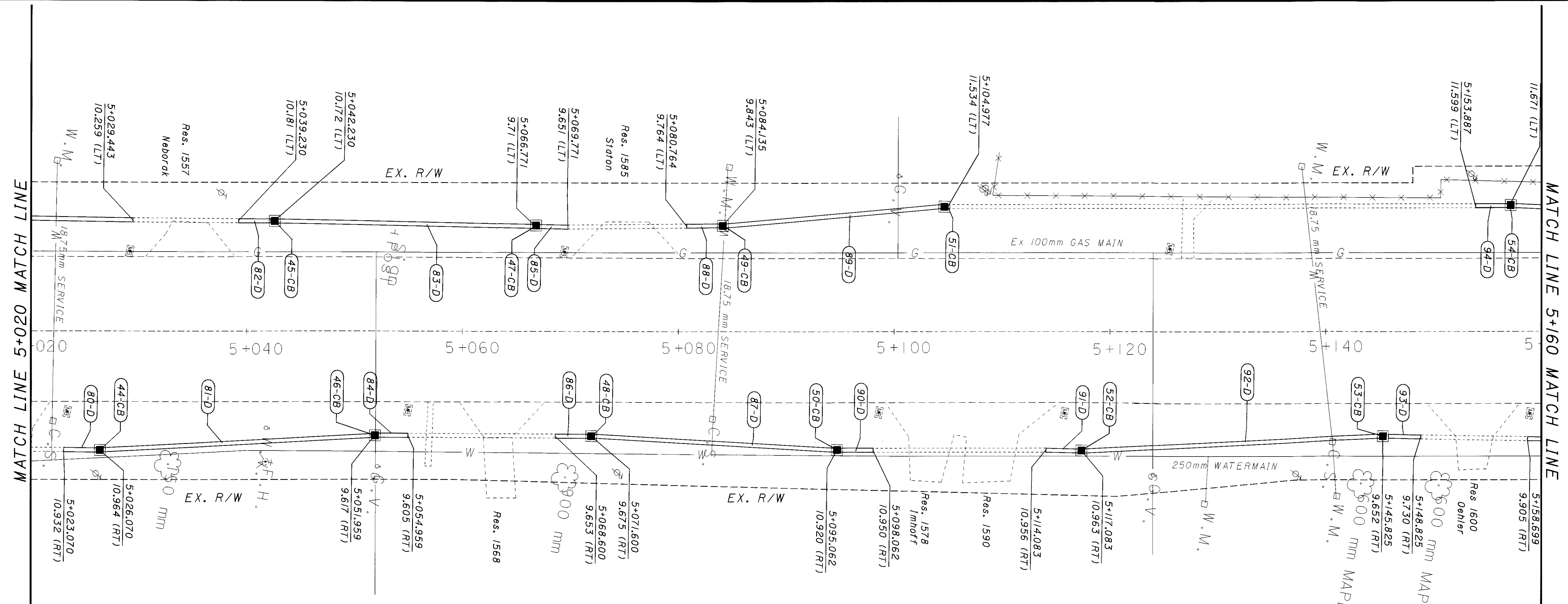


HORIZONTAL SCALE IN METERS

CALCULATED PCC CHECKED

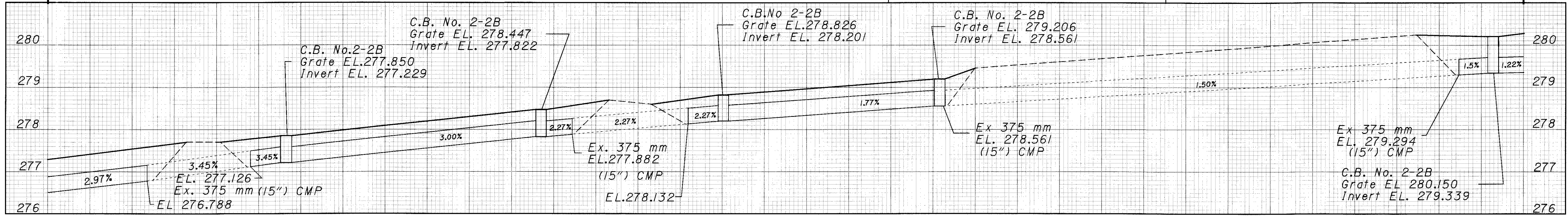
PLAN AND PROFILE

BUT-27-13.147

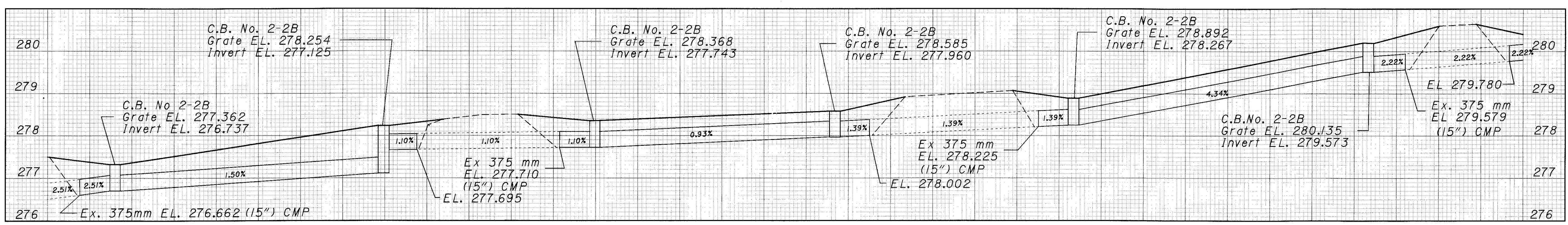


Left Ditch Profile (West Side)

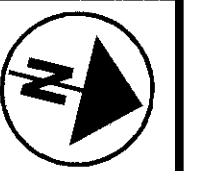
BENCH MARK  
EL. 279.3192  
N.W. COR. FIRST STEP TO RES.#1578



Right Ditch Profile (East Side)



24-MAR-1998 08:49 cccasson i:\pr3\ccasson\amen\dgn\planx014.dgn

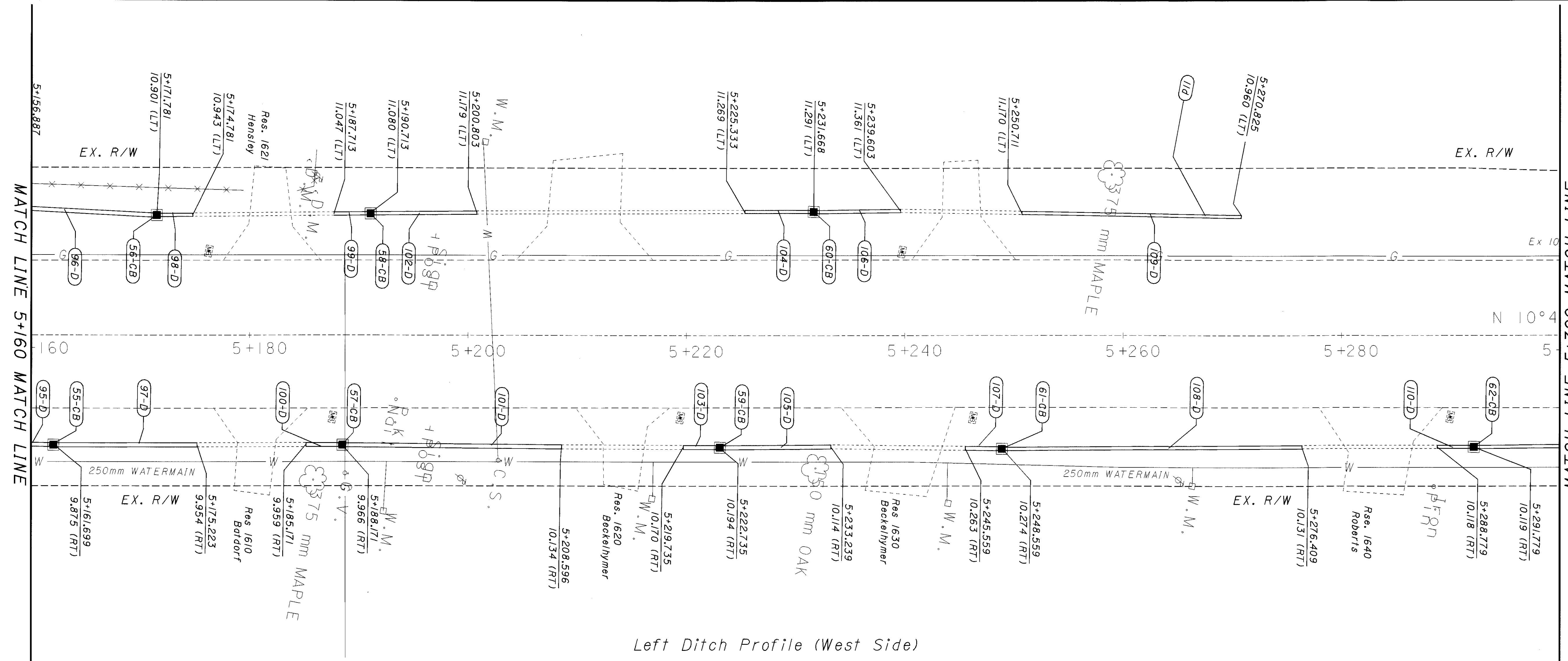


HORIZONTAL SCALE IN METERS

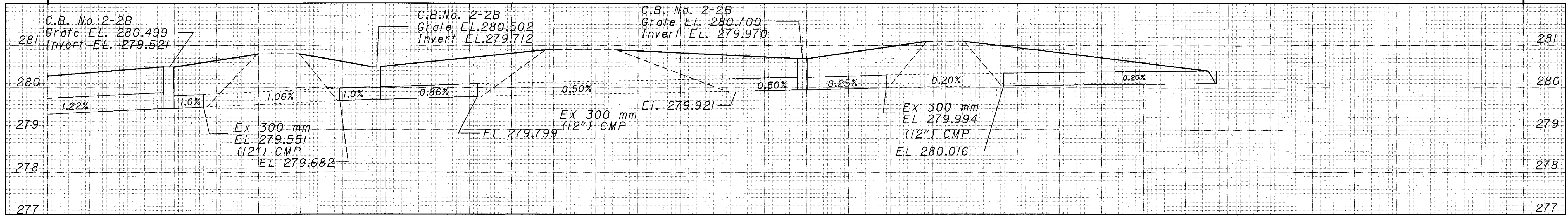
CALCULATED PCC CHECKED

PLAN AND PROFILE

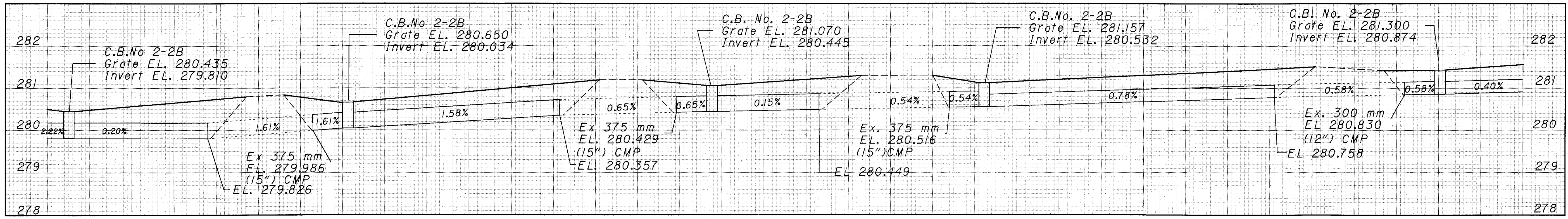
BUT - 27 - 13.147



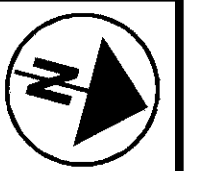
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



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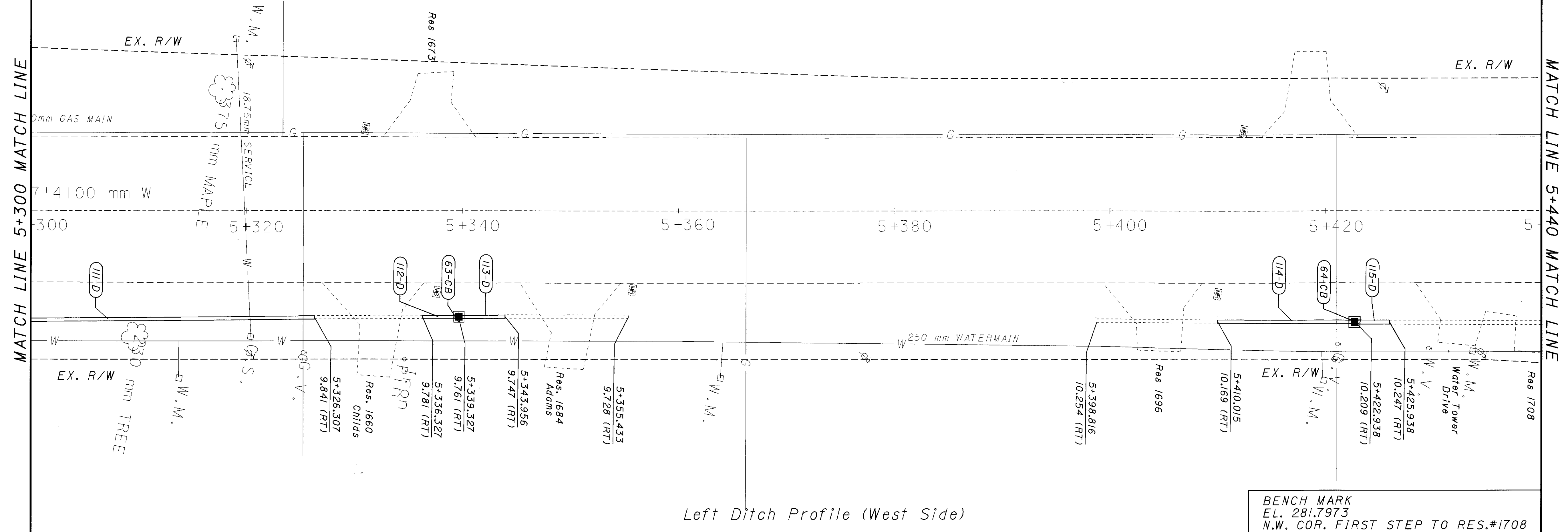


HORIZONTAL SCALE IN METERS

CALCULATED PCC CHECKED

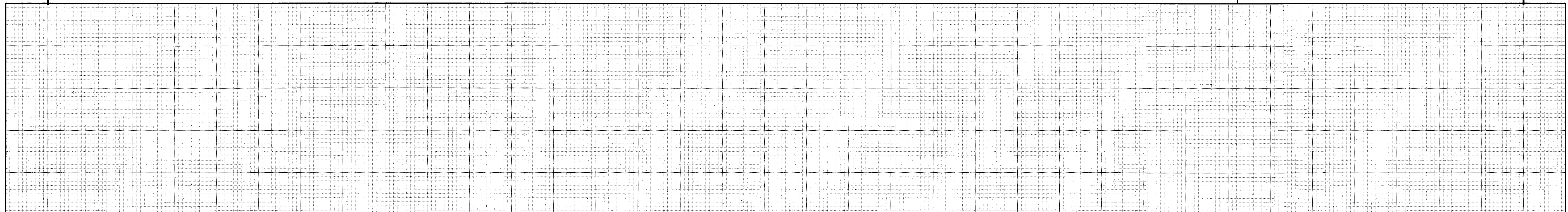
PLAN AND PROFILE

BUT-27-13.147

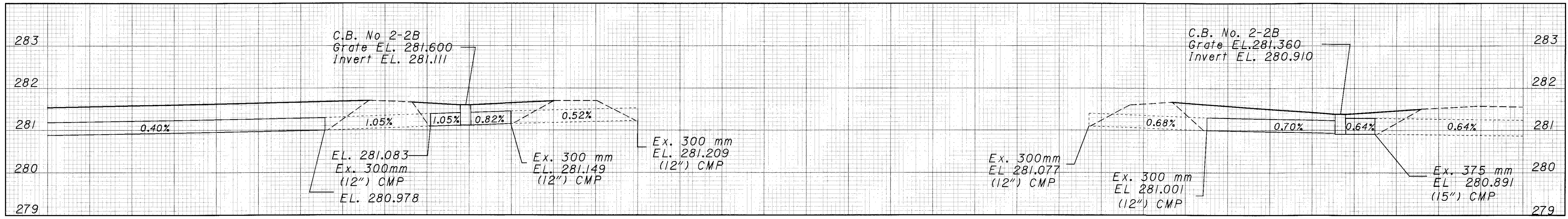


Left Ditch Profile (West Side)

BENCH MARK  
EL. 281.7973  
N.W. COR. FIRST STEP TO RES.#1708



Right Ditch Profile (East Side)





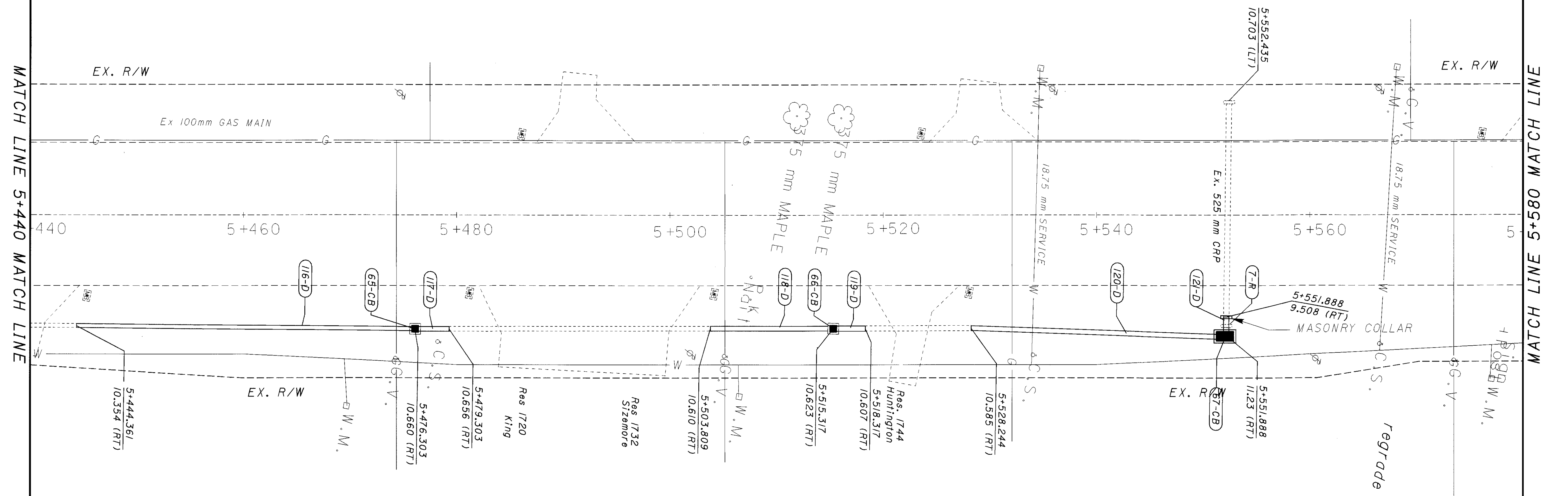
HORIZONTAL SCALE IN METERS

CALCULATED P.C.C. CHECKED

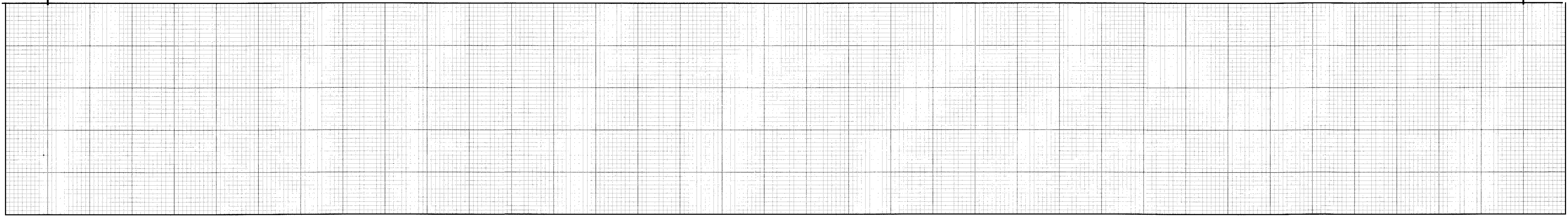
PLAN AND PROFILE

BUT-27-13.147

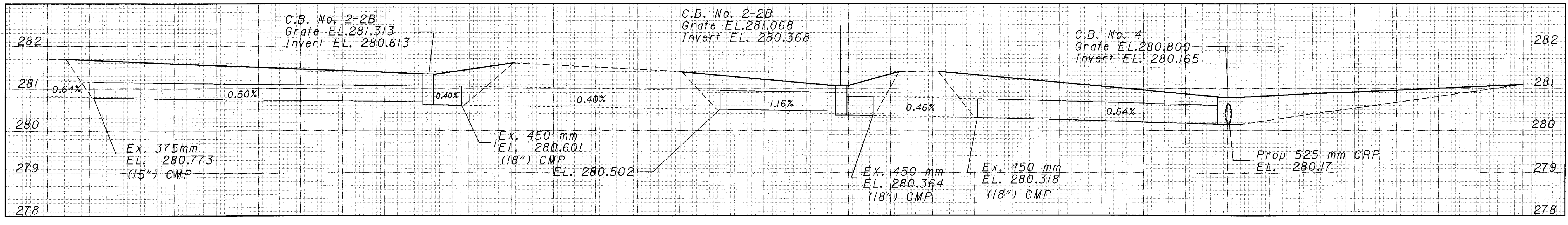
30 105



Left Ditch Profile (West Side)

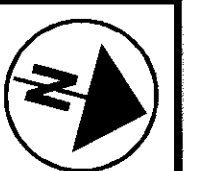


Right Ditch Profile (East Side)



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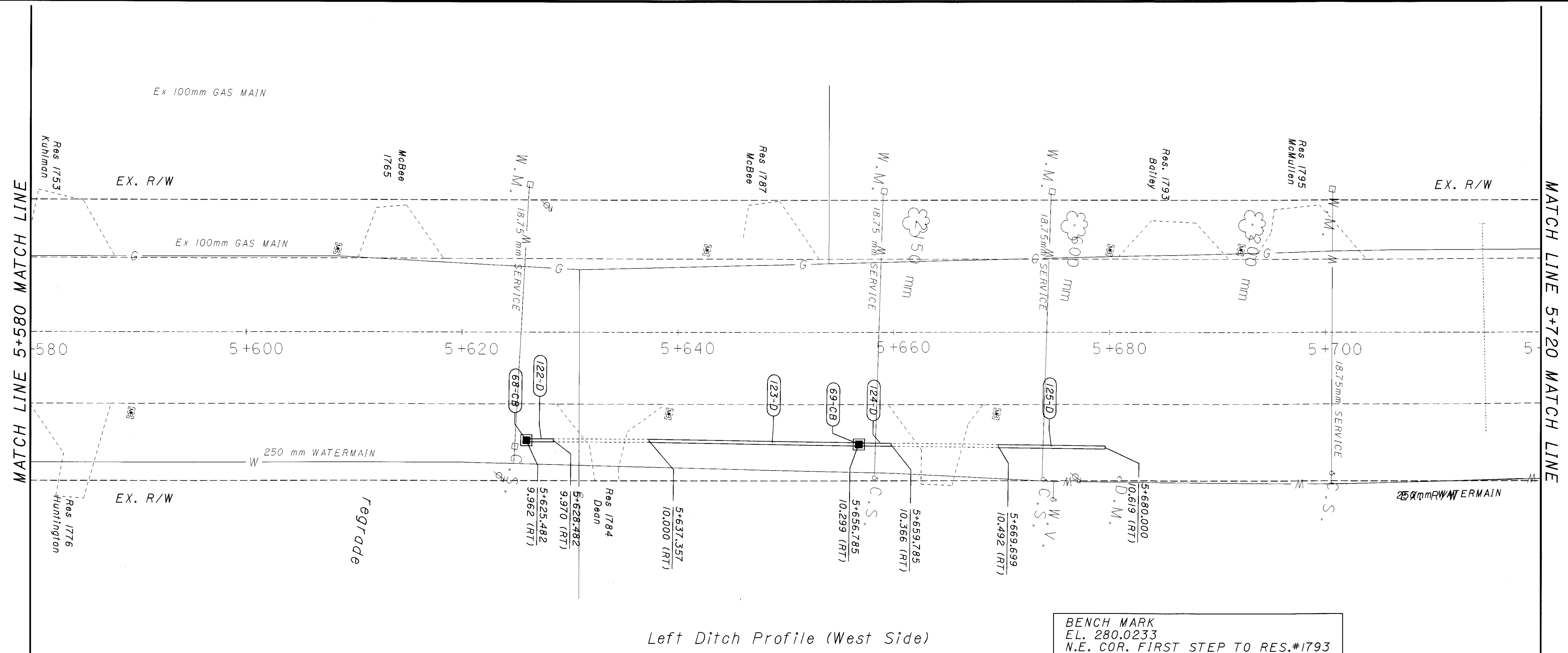


HORIZONTAL SCALE IN METERS

CALCULATED PCC CHECKED

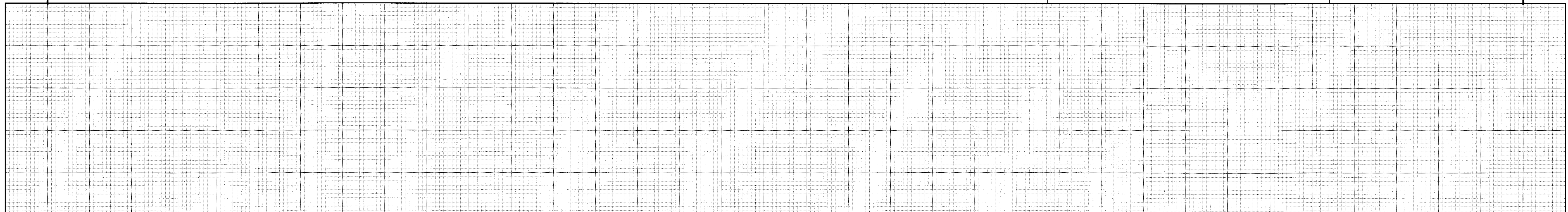
PLAN AND PROFILE

BUT-27-13.147

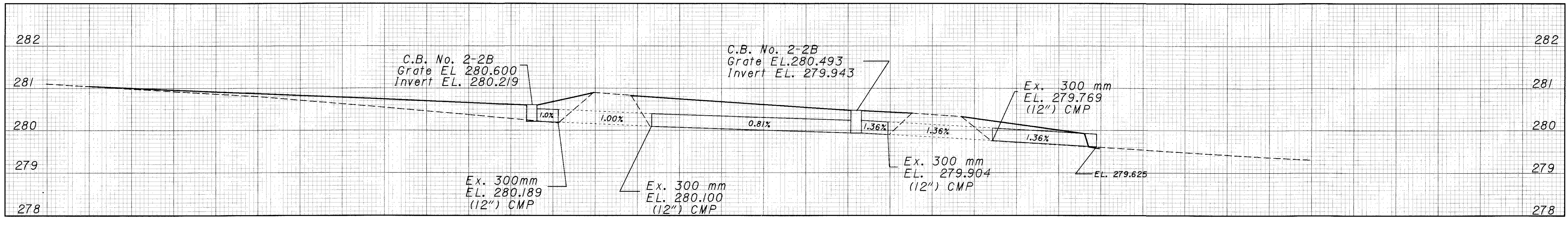


Left Ditch Profile (West Side)

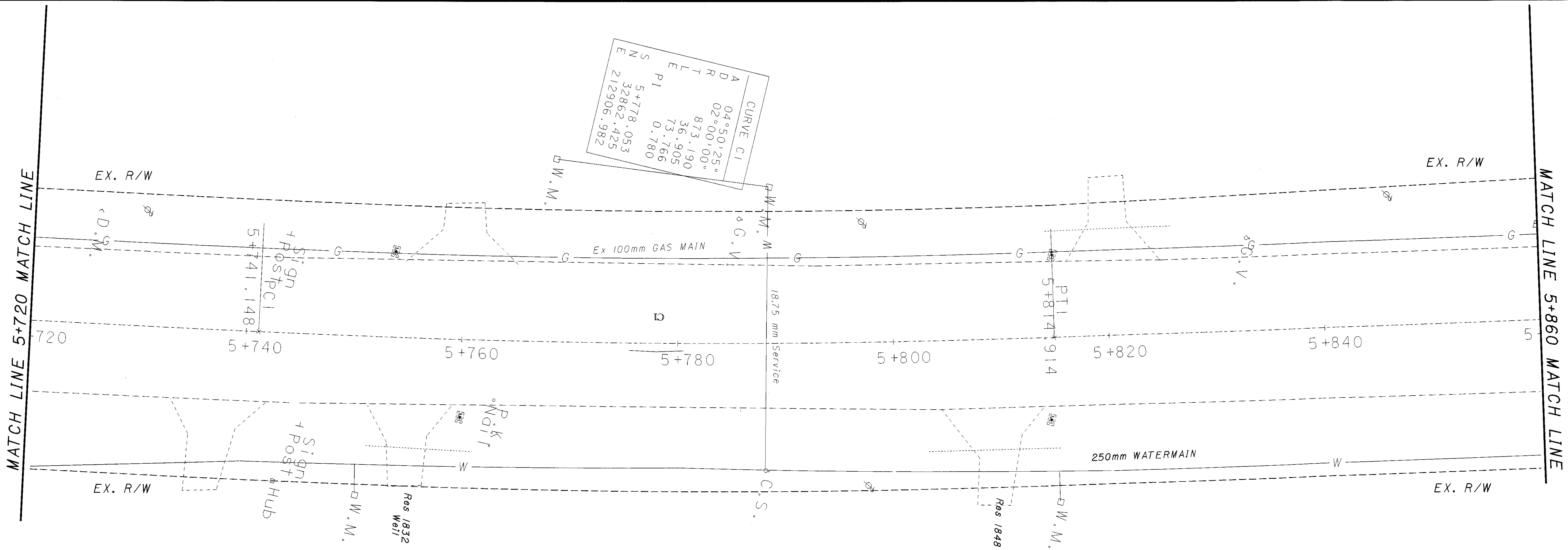
BENCH MARK  
EL. 280.0233  
N.E. COR. FIRST STEP TO RES.#1793



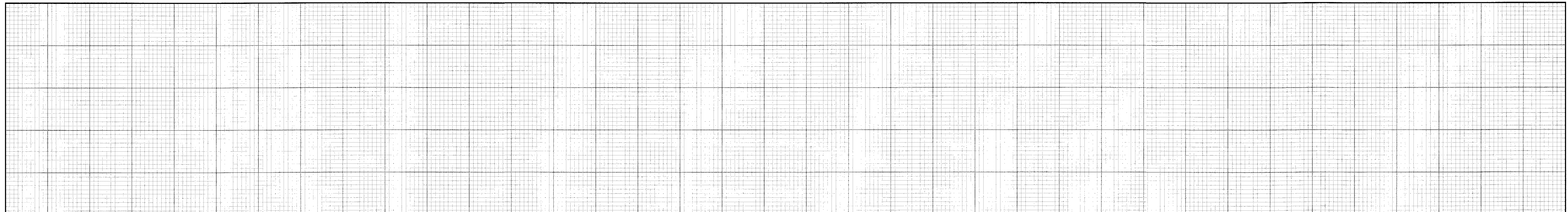
Right Ditch Profile (East Side)



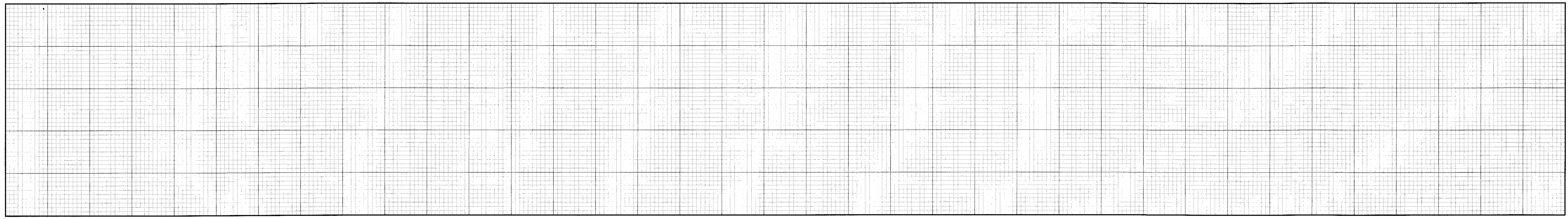
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Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



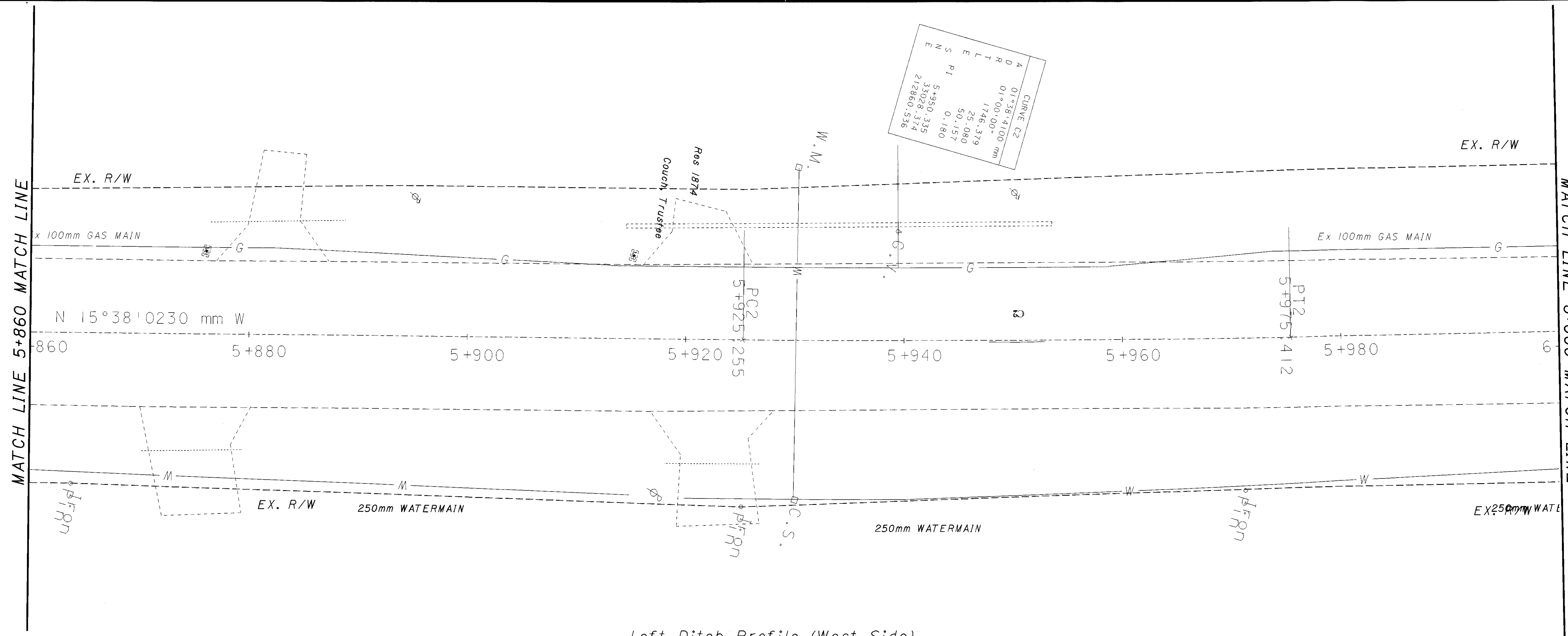


HORIZONTAL SCALE IN METERS

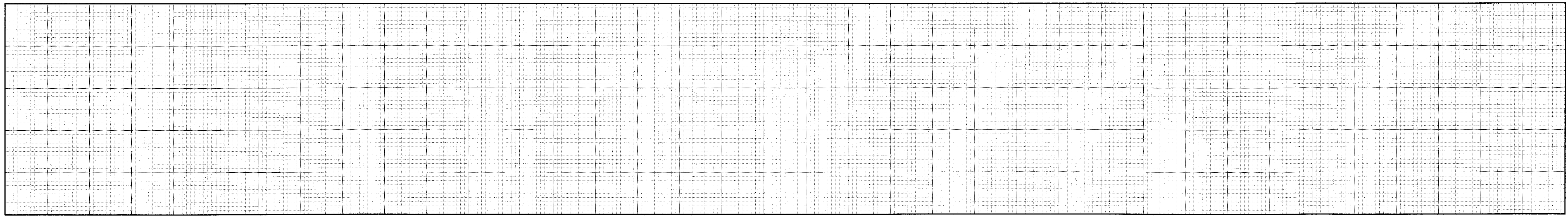
CALCULATED PCC CHECKED

PLAN AND PROFILE

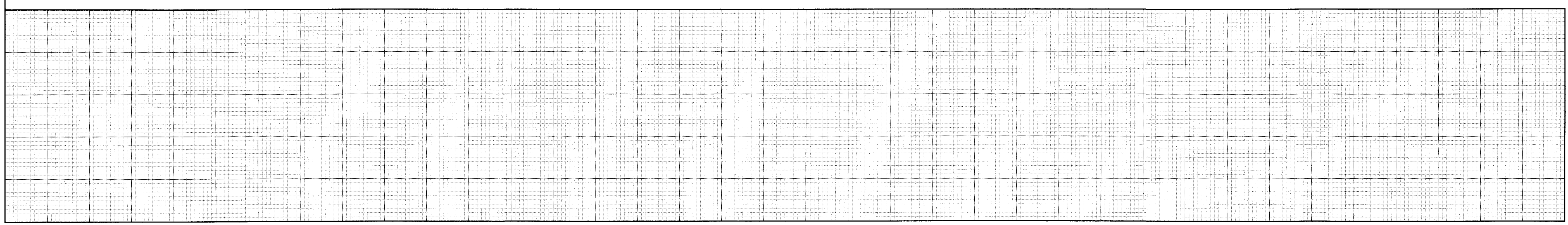
BUT-27-13.147



Left Ditch Profile (West Side)



Right Ditch Profile (East Side)



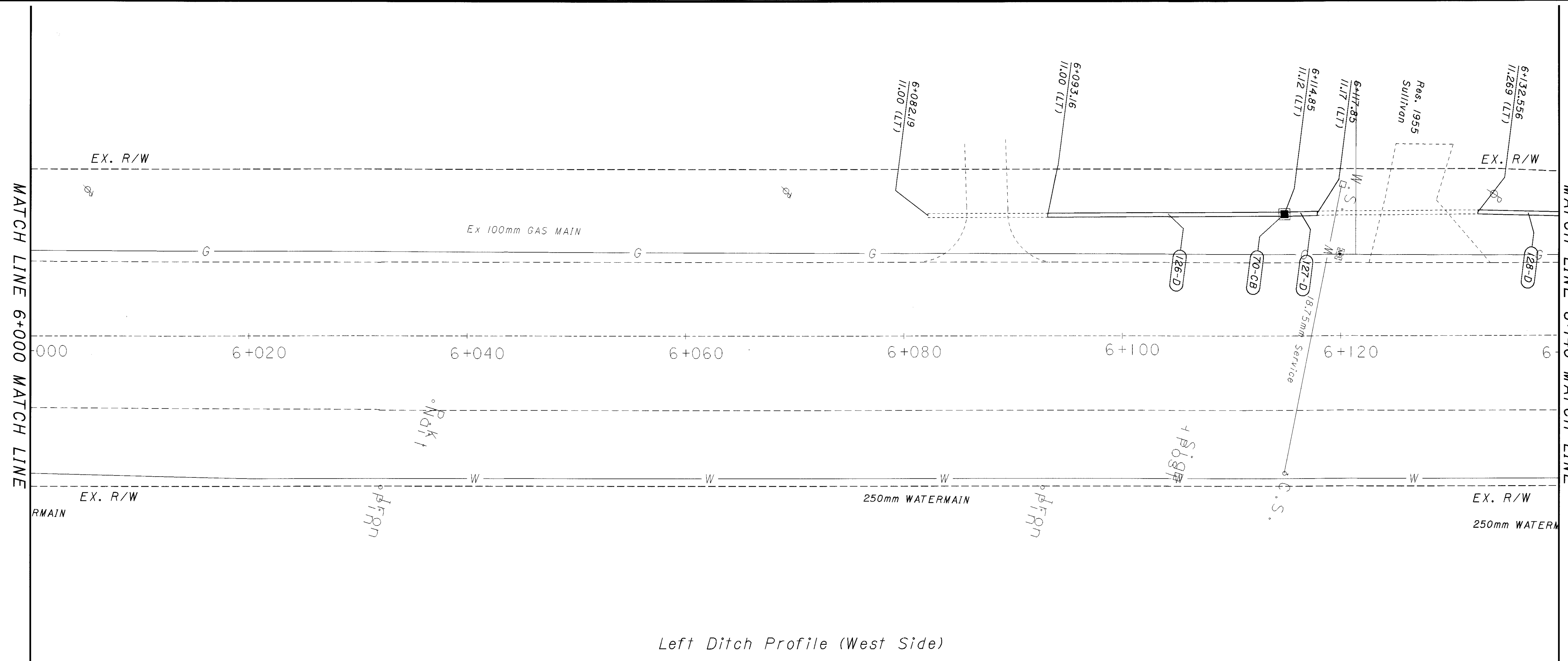


HORIZONTAL SCALE IN METERS

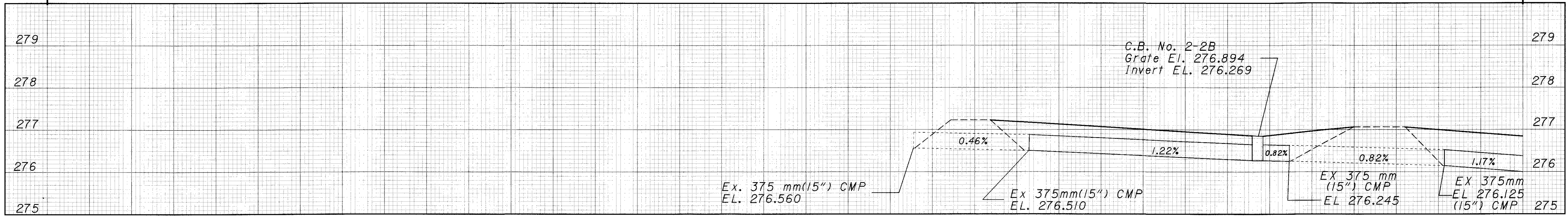
CALCULATED  
PCC  
CHECKED

# PLAN AND PROFILE

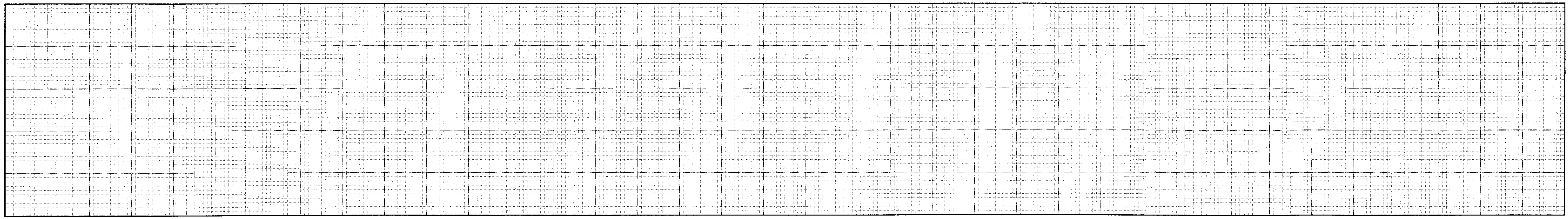
BUT -27 -13.147



Left Ditch Profile (West Side)



Right Ditch Profile (East Side)





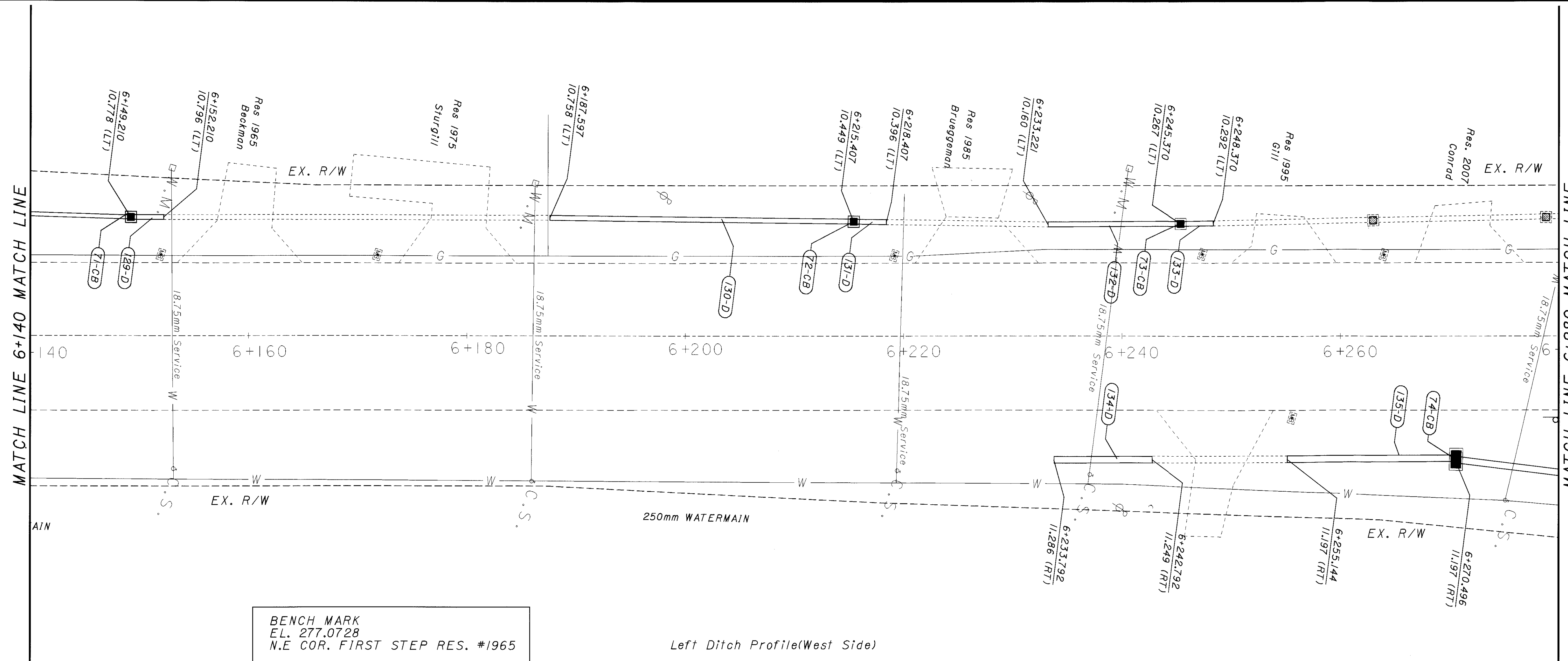
HORIZONTAL SCALE IN METERS

CALCULATED PCC CHECKED

PLAN AND PROFILE

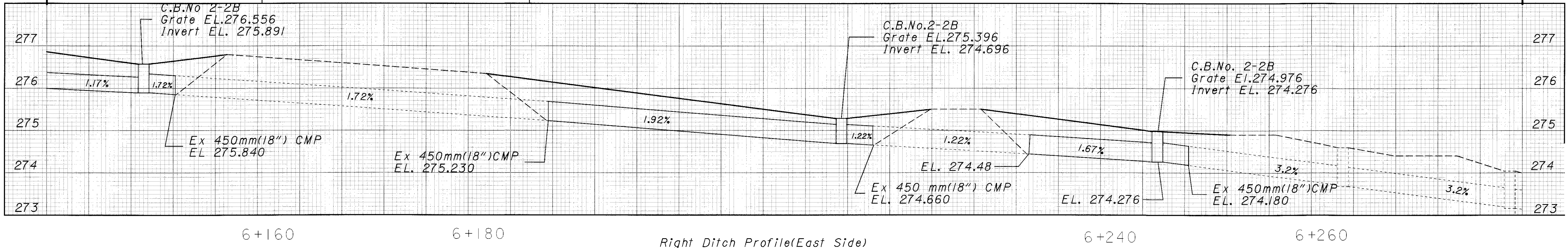
BUT - 27 - 13.147

35 / 105

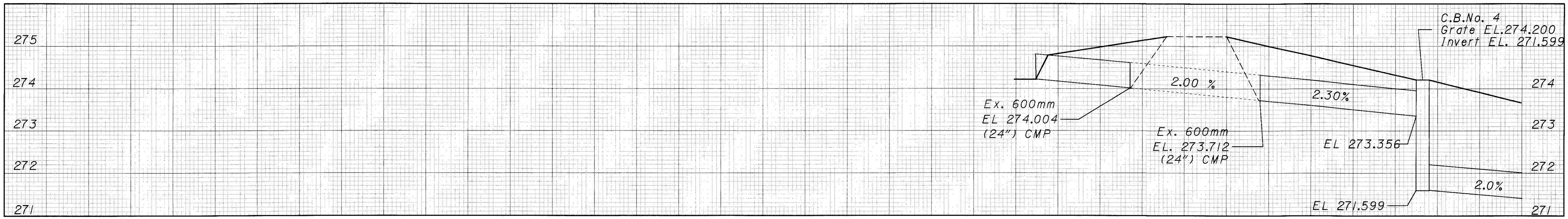


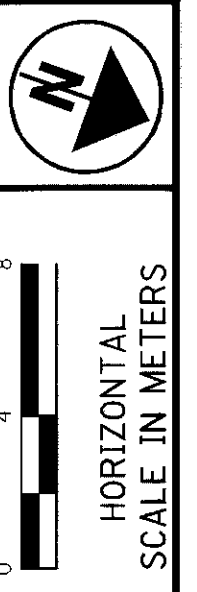
BENCH MARK  
EL. 277.0728  
N.E. COR. FIRST STEP RES. #1965

Left Ditch Profile (West Side)



Right Ditch Profile (East Side)

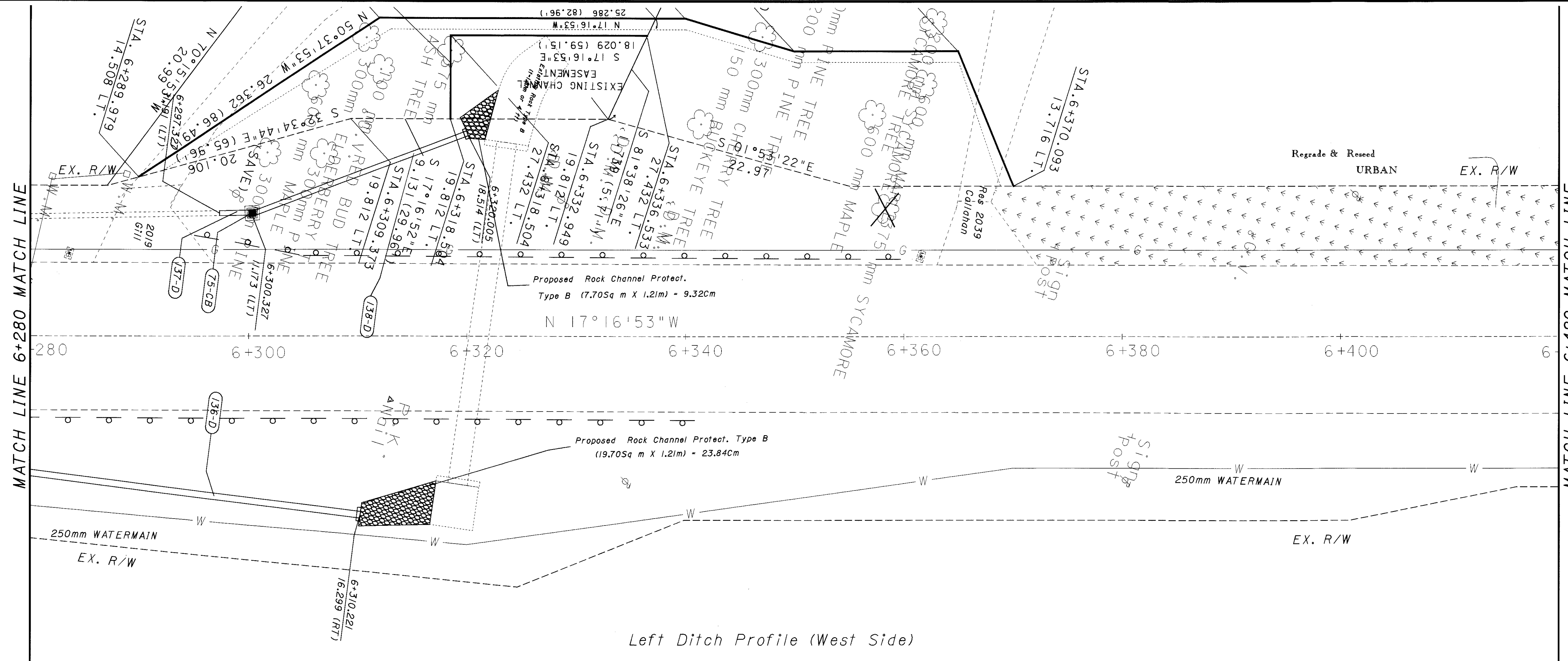




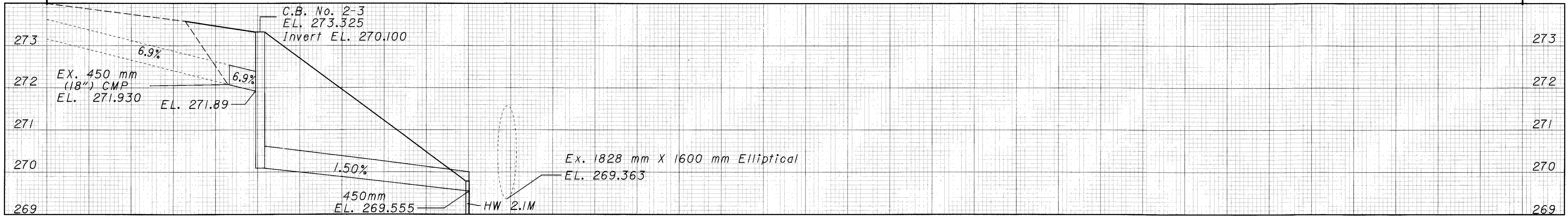
CALCULATED  
PCC  
CHECKED

**PLAN AND PROFILE**

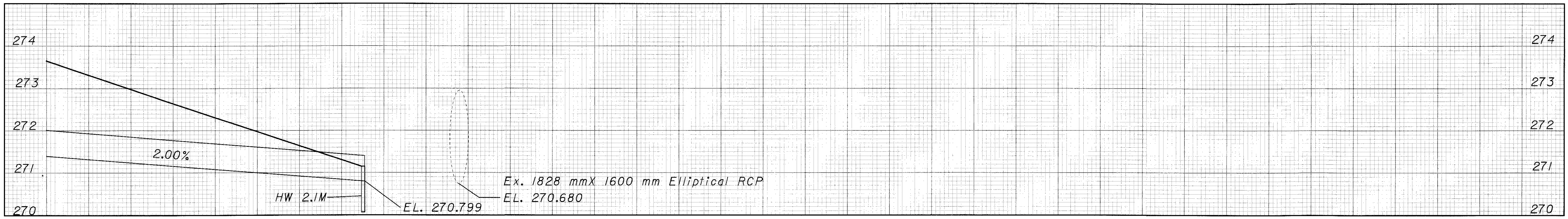
**BUT-27-13.147**



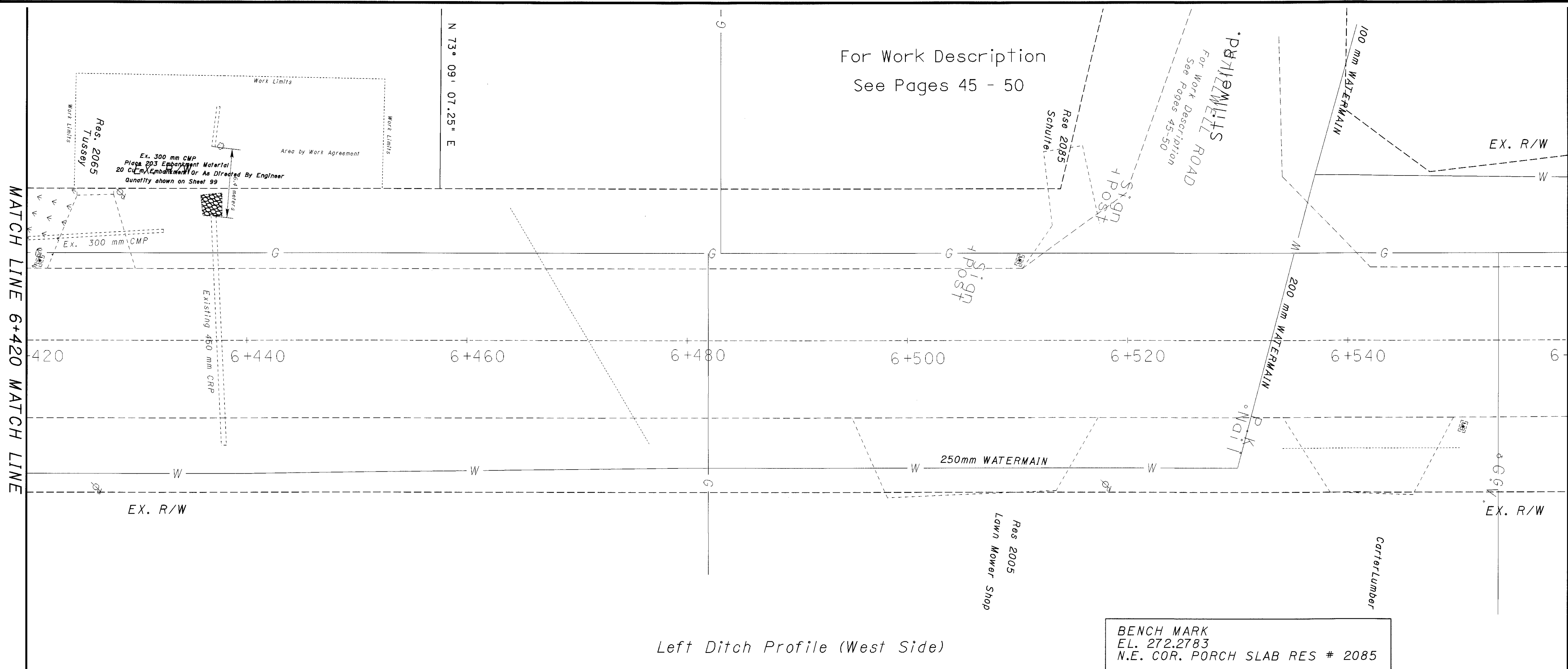
Left Ditch Profile (West Side)



Right Ditch Profile (East Side)

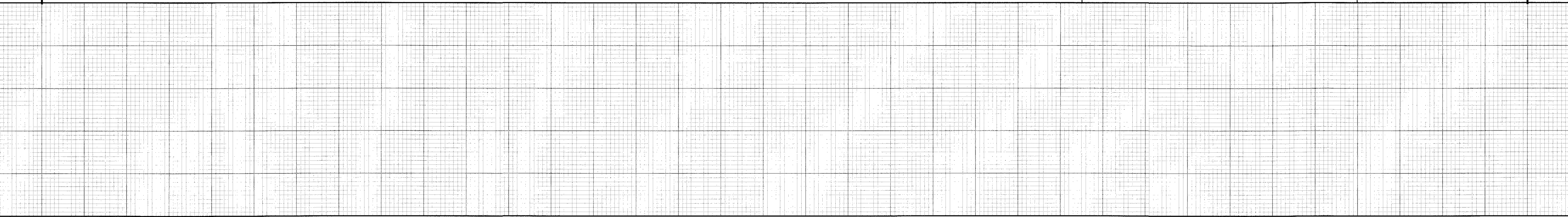


24-MAR-1998 08:54 cccasson  
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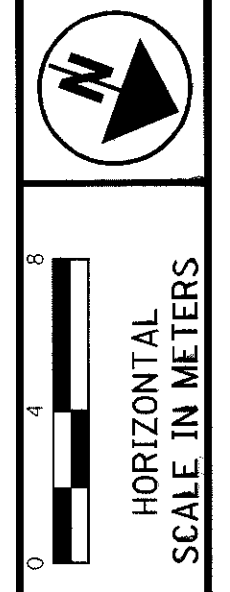
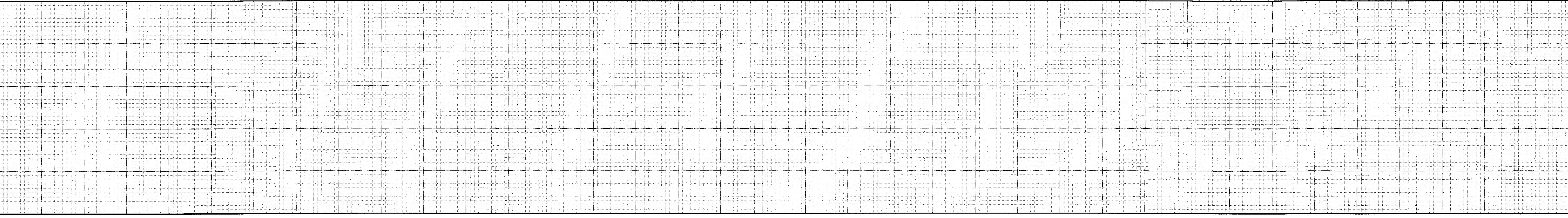


Left Ditch Profile (West Side)

BENCH MARK  
 E.L. 272.2783  
 N.E. COR. PORCH SLAB RES # 2085



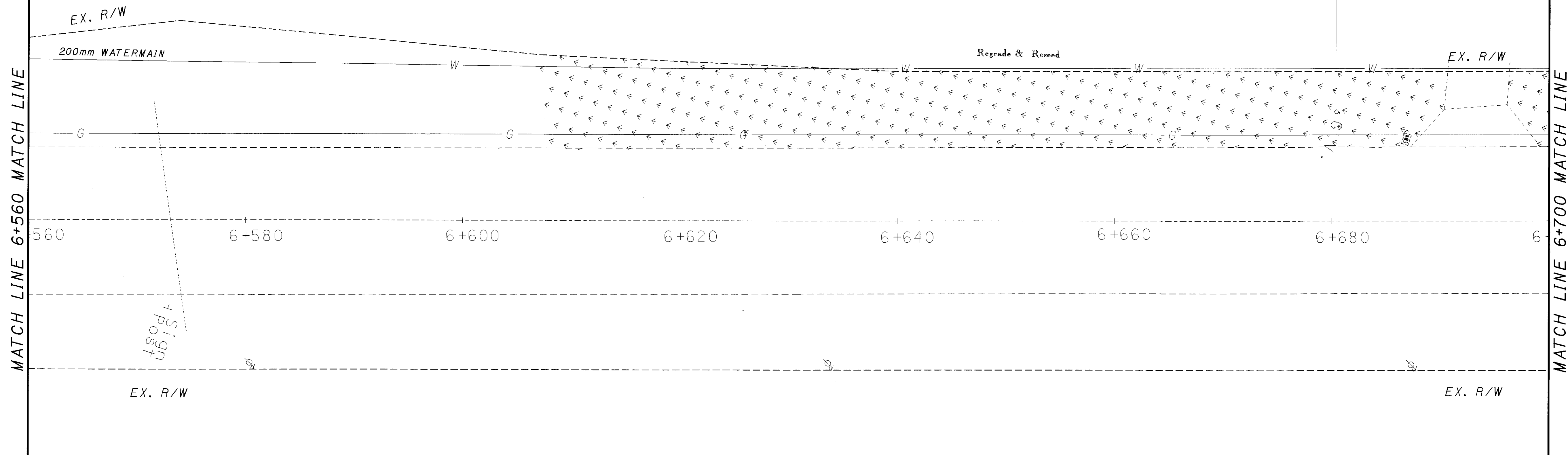
Right Ditch Profile (East Side)



CALCULATED  
 PCC  
 CHECKED

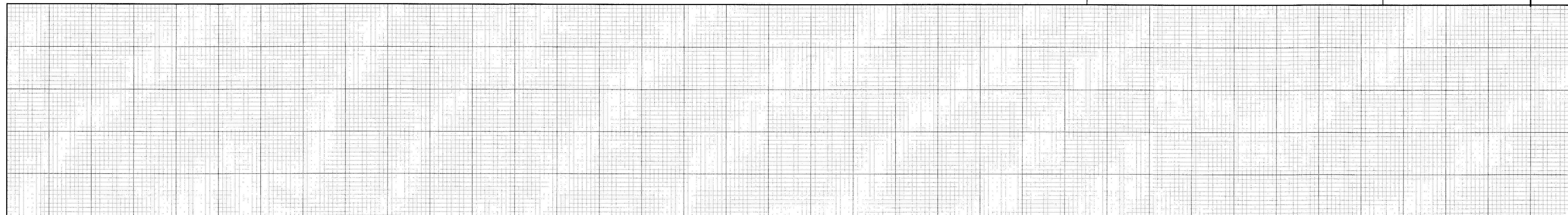
PLAN AND PROFILE

BUT - 27 - 13.147

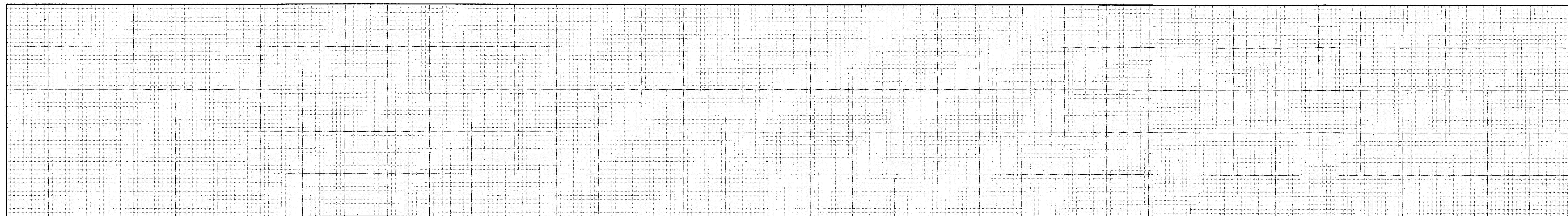


Left Ditch Profile (West Side)

BENCH MARK  
EL. 272.1503  
N.E. COR. FIRST STEP TO RES. # 2037



Right Ditch Profile (East Side)



HORIZONTAL  
SCALE IN METERS

CALCULATED  
PCC  
CHECKED

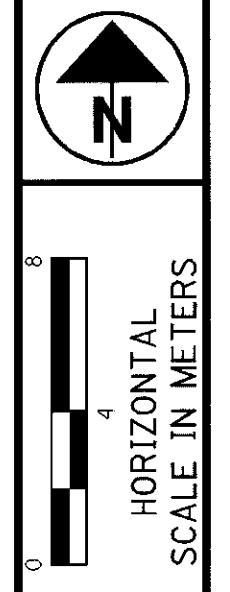
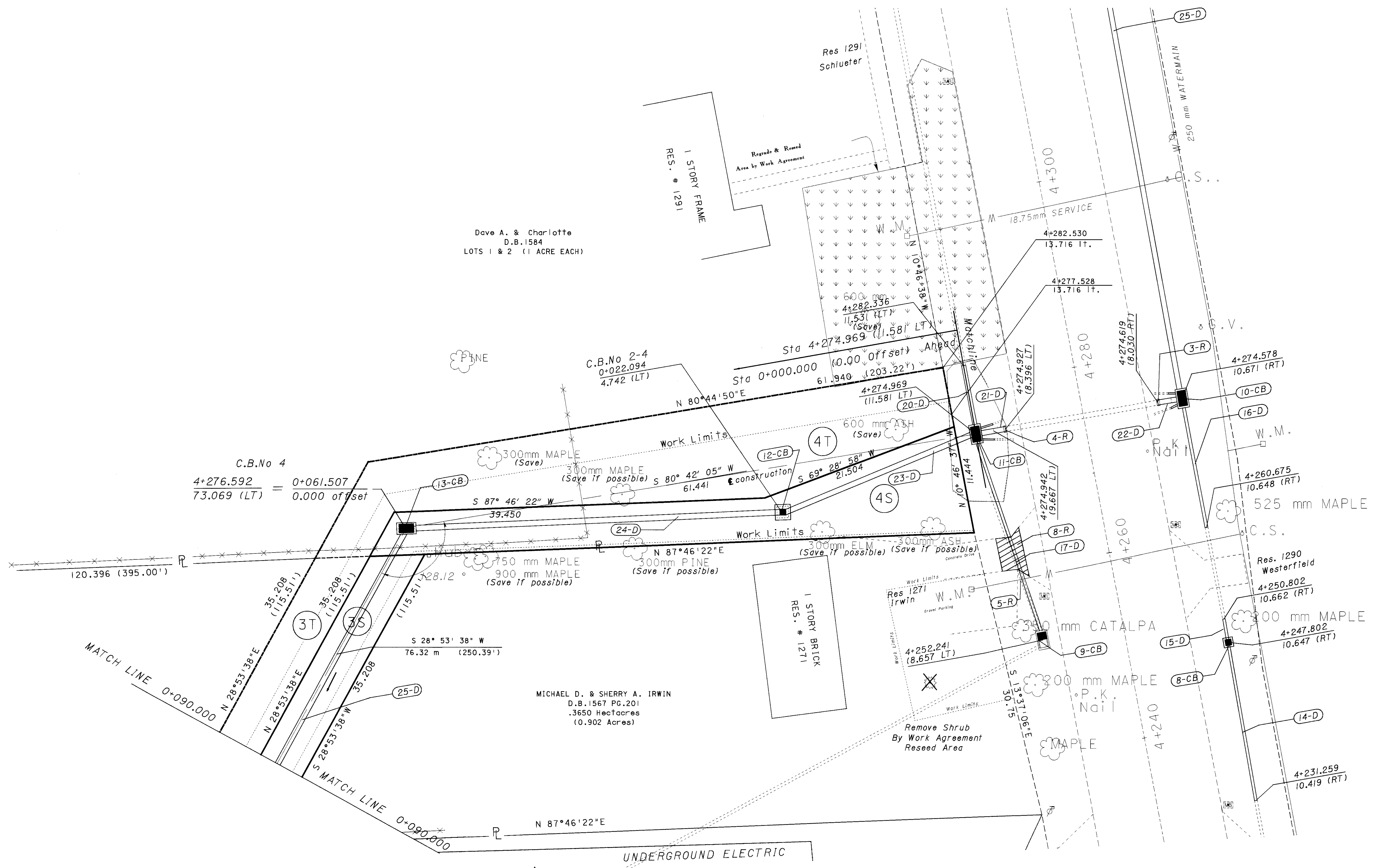
PLAN AND PROFILE

BUT - 27 - 13.147





24-MAR-1998 12:42 ccasson  
I:\pr3\ccasson\amen\dgn\pondplan.dgn



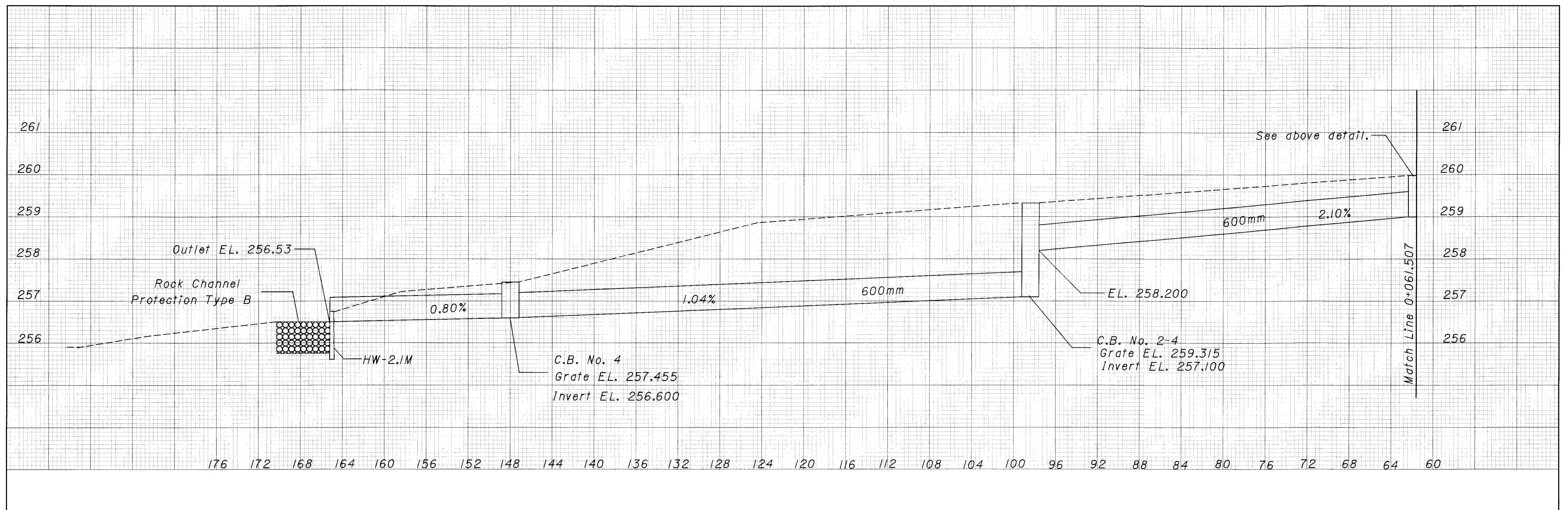
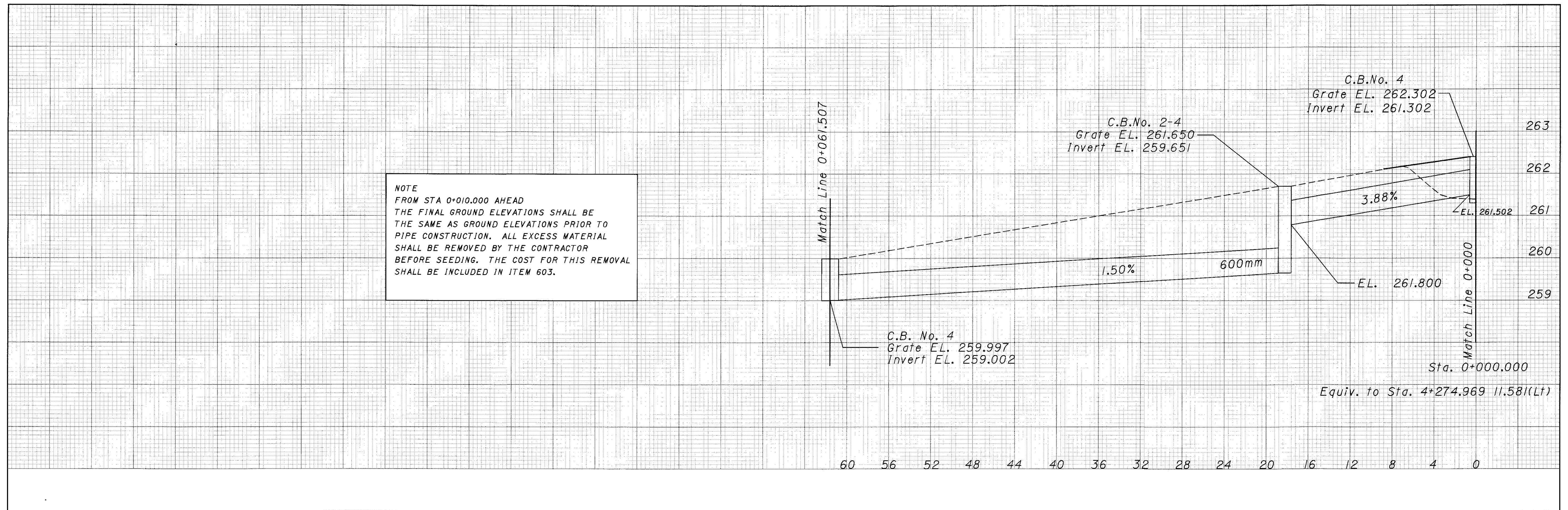
CALCULATED  
CHECKED

**STORM SEWER DETAIL**

**BUT-27-13.147**



23-MAR-1998 08:02 ccasson  
 i:\pr 3\ccasson\amen\dgn\pondp002.dgn



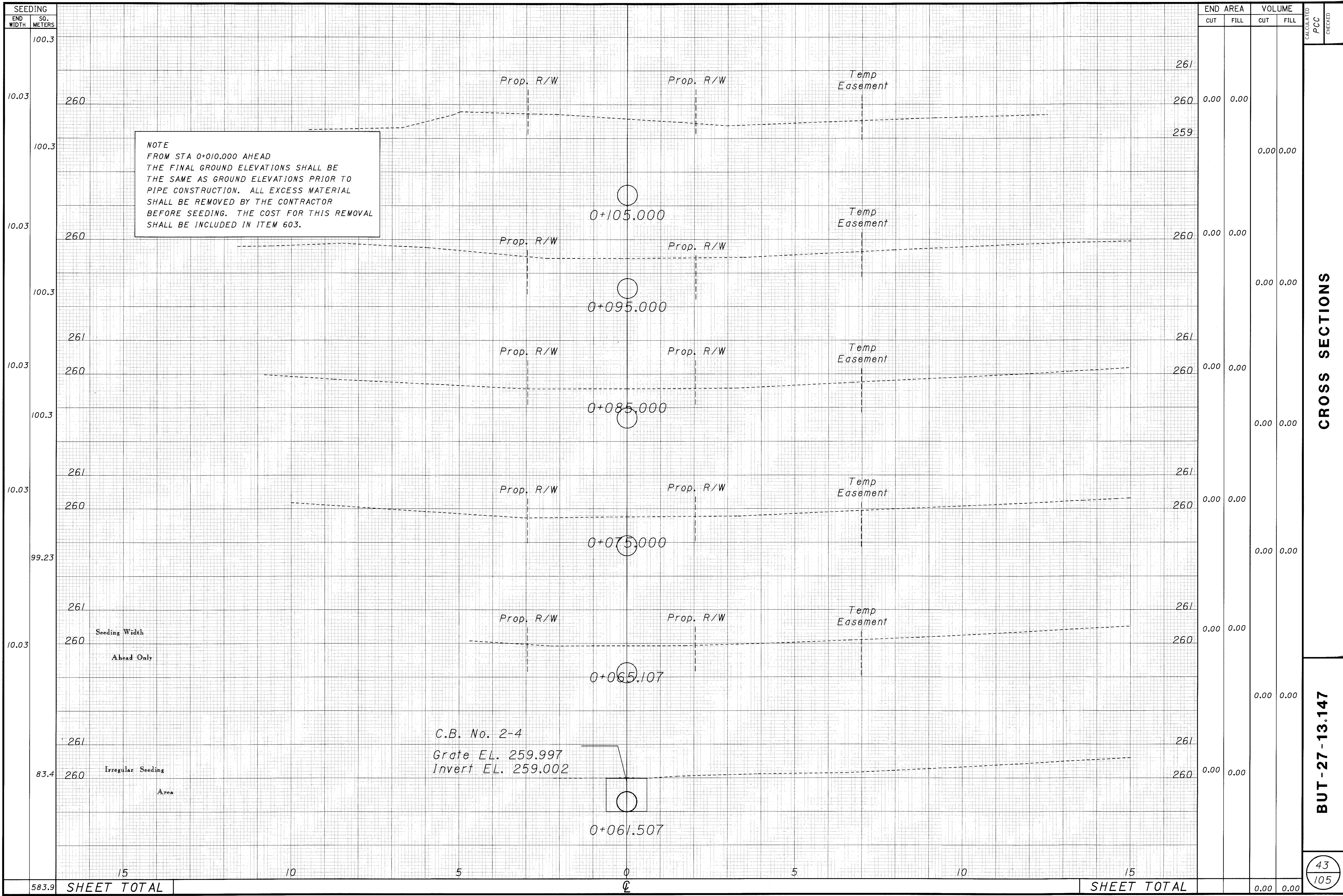
STORM SEWER DETAIL

BUT-27-13.147

CALCULATED  
 PCC  
 CHECKED



23-MAR-1998 08:05 ccasson  
 i:\pr3\ccasson\amen\dgn\pondxsht.dgn

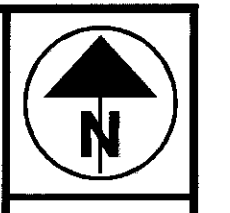


**CROSS SECTIONS**

**BUT -27 -13.147**

43  
105



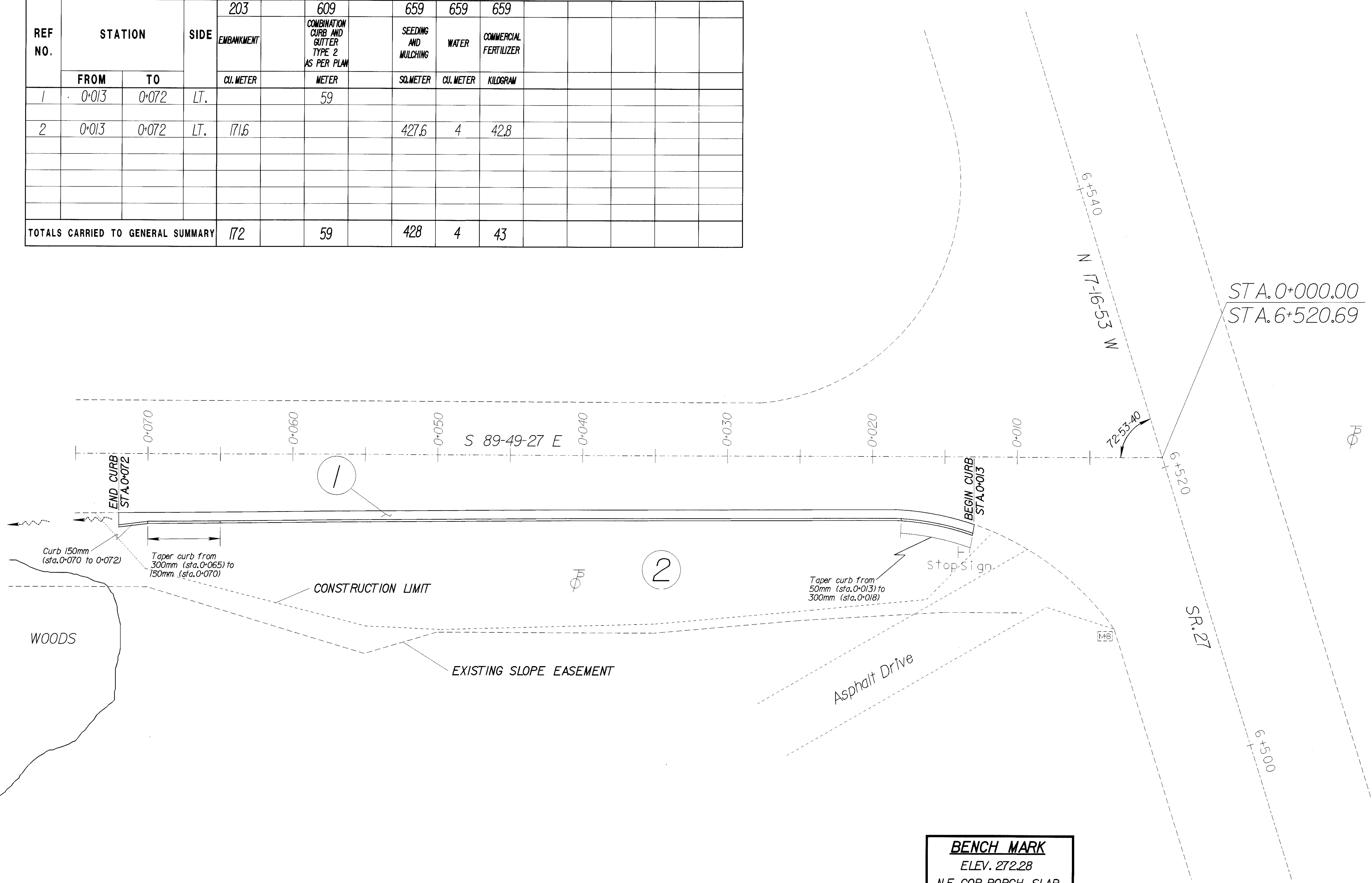


HORIZONTAL SCALE: 1 IN METERS

CALCULATED BY JDM CHECKED

**BUT - 27 - 13.147 PLAN SHEET (STILLWELL RD.)**

REF NO.	STATION		SIDE	203	609	659	659	659					
				EMBANKMENT	COMBINATION CURB AND GUTTER TYPE 2 AS PER PLAN	SEEDING AND MULCHING	WATER	COMMERCIAL FERTILIZER					
	FROM	TO		CU. METER	METER	SQ. METER	CU. METER	KILOGRAM					
1	0+013	0+072	LT.		59								
2	0+013	0+072	LT.	171.6		427.6	4	42.8					
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				172	59	428	4	43					

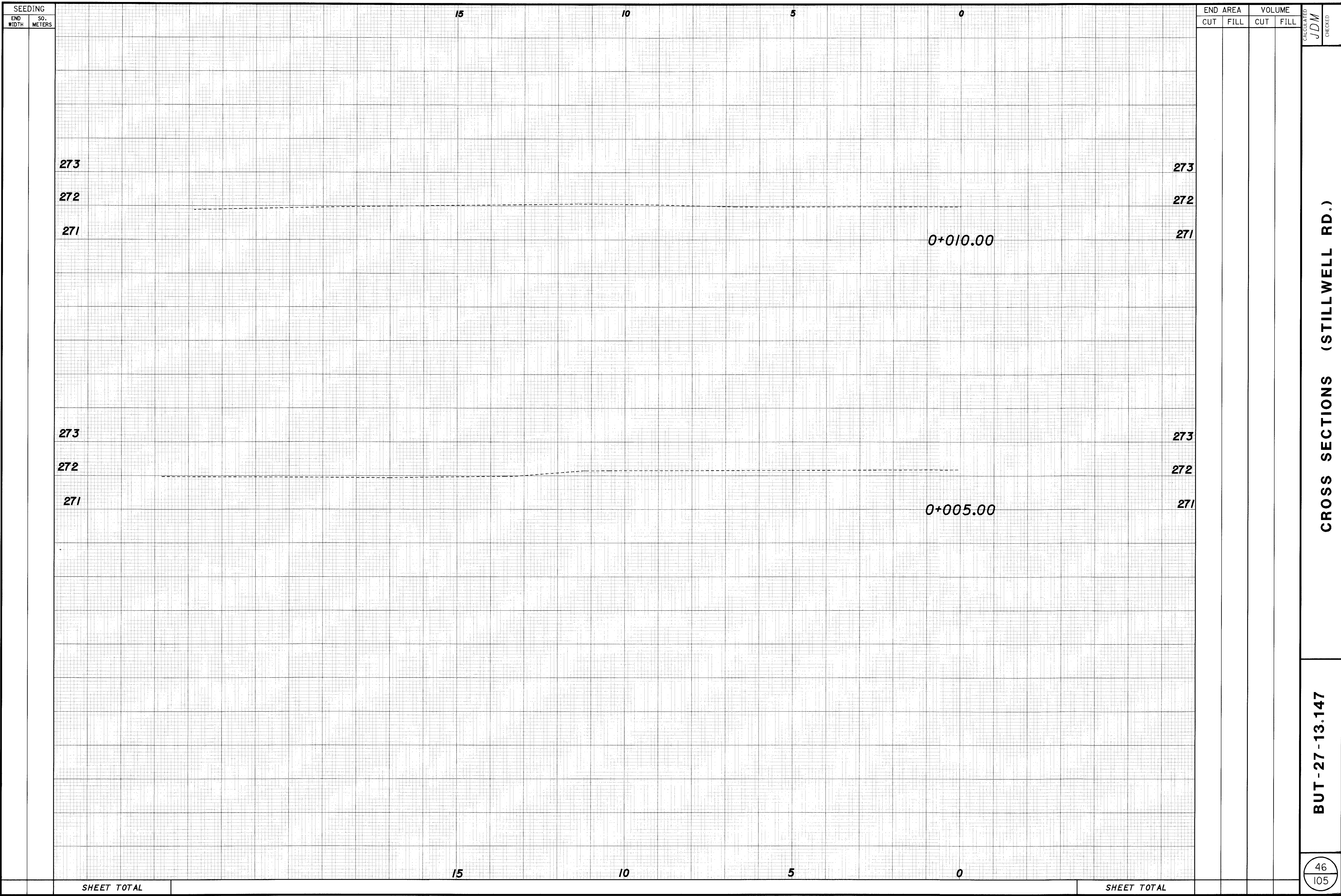


**BENCH MARK**  
 ELEV. 272.28  
 N.E. COR. PORCH SLAB  
 RES. \*2085

23-MAR-1998 08:20 ccasson  
 23-H:\MARS-1196-108-120\but 2066\sonin.dgn  
 Apr 3 11:53 AM '98



23-MAR-1998 08:21 ccasson  
i:\pr3\jmlsky\but\but27\3147\jxs.dgn



SEEDING

END SO.  
WIDTH METERS

15

10

5

0

END AREA  
CUT FILL

VOLUME  
CUT FILL

CALCULATED  
JDM  
CHECKED

273

273

272

272

271

271

0+010.00

273

273

272

272

271

271

0+005.00

15

10

5

0

SHEET TOTAL

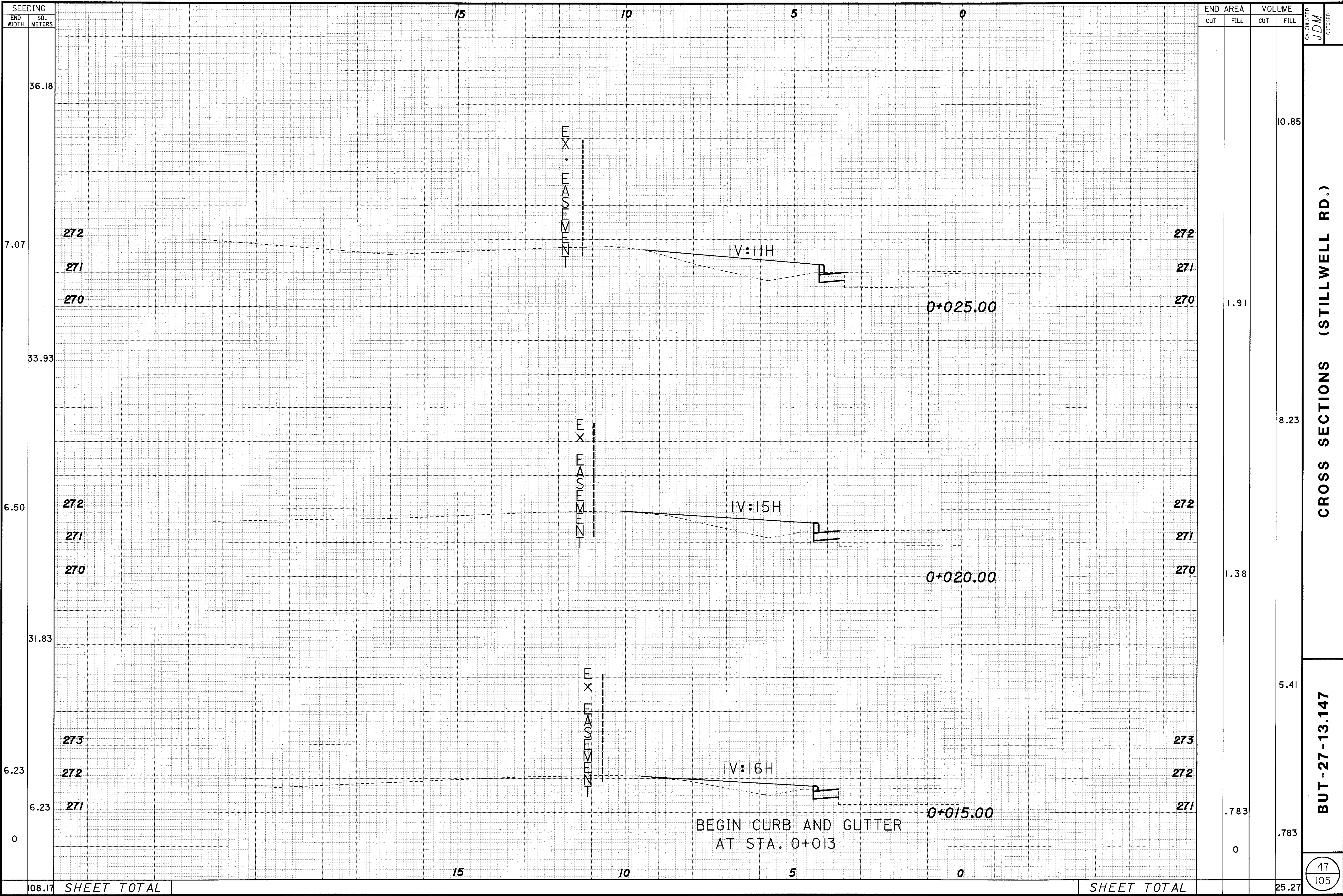
SHEET TOTAL

CROSS SECTIONS (STILLWELL RD.)

BUT - 27 - 13.147

46  
105

23-MAR-1998 08:22 ccoosson  
 i:\pr3\jmllesky\but\but27\3147\jxs.dgn

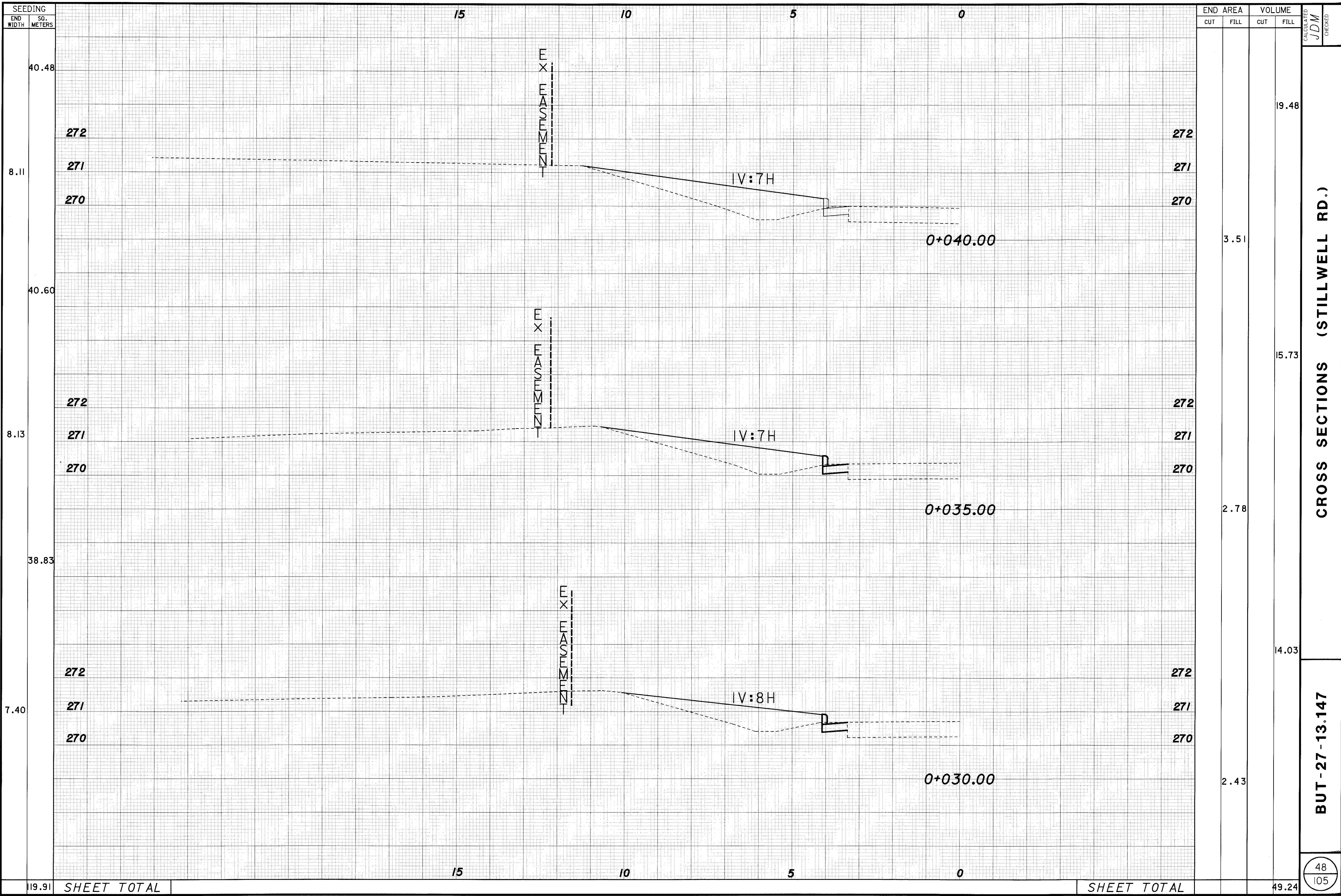


CROSS SECTIONS (STILLWELL RD.)

BUT-27-13.147

47  
105

23-MAR-1998 08:23 ccasson  
 I:\pr3\jmllesky\but\but2\13147\jss.dgn



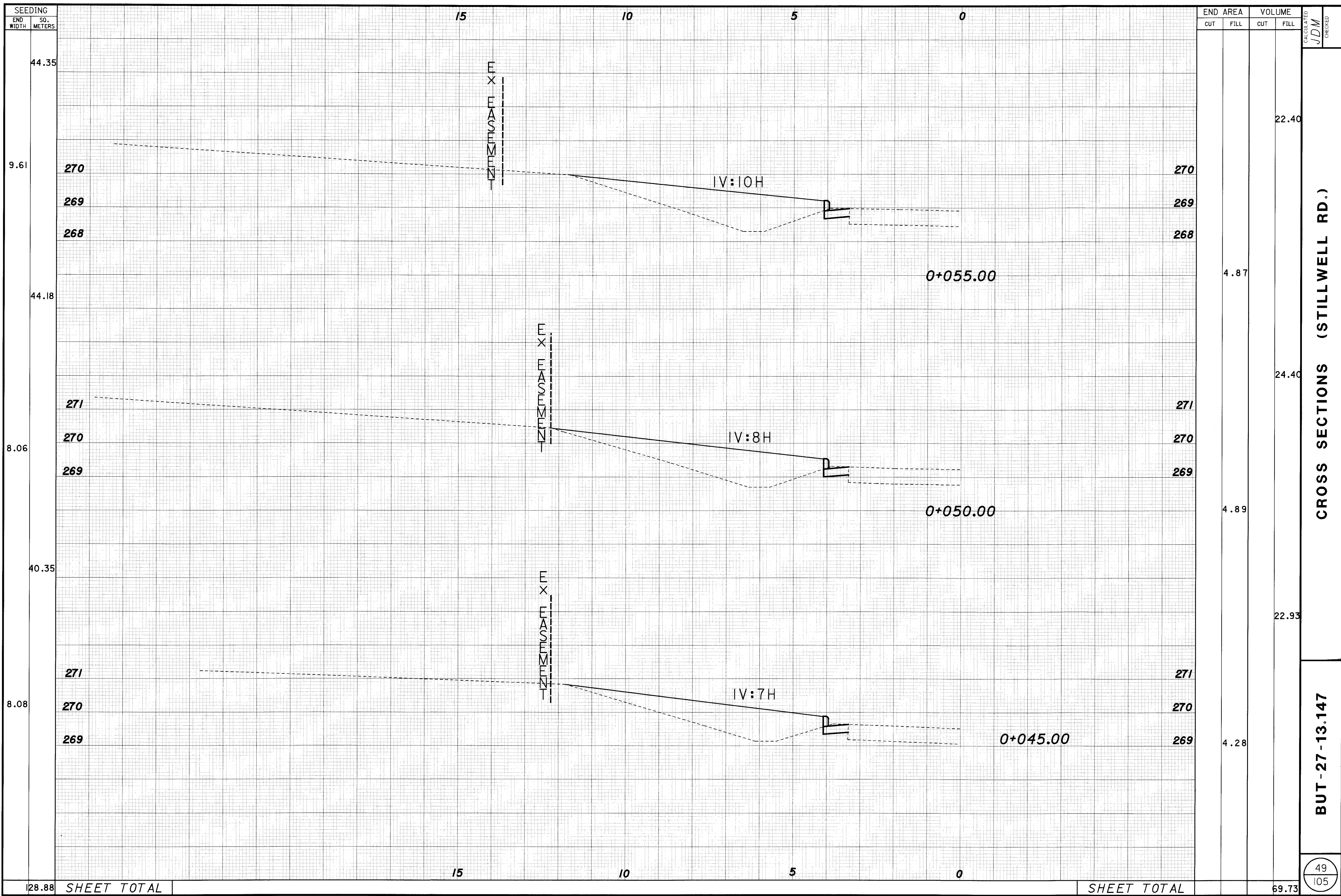
CROSS SECTIONS (STILLWELL RD.)

BUT-27-13.147

48  
105

CALCULATED  
JDM  
CHECKED

23-MAR-1998 08:23 cccason  
 i:\pr3\jimlesky\but\but2\3147\jxs.dgn



CROSS SECTIONS (STILLWELL RD.)

BUT - 27 - 13.147

49  
105

SEEDING

END SO. WIDTH METERS

44.35  
9.61  
44.18  
8.06  
40.35  
8.08

270  
269  
268

271  
270  
269

271  
270  
269

270  
269  
268

271  
270  
269

271  
270  
269

128.88 SHEET TOTAL

SHEET TOTAL

15 10 5 0

15 10 5 0

0+055.00

0+050.00

0+045.00

IV:10H

IV:8H

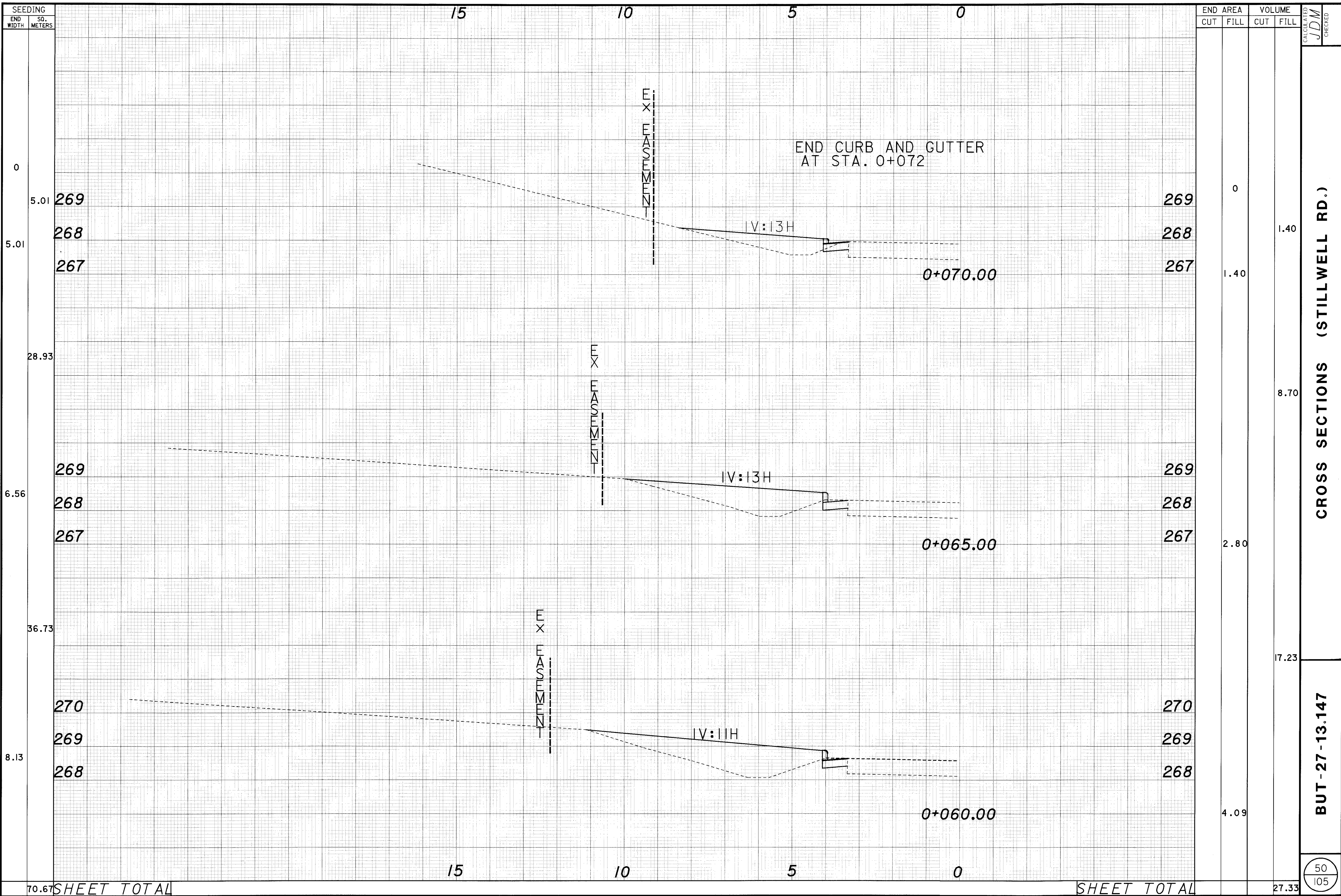
IV:7H

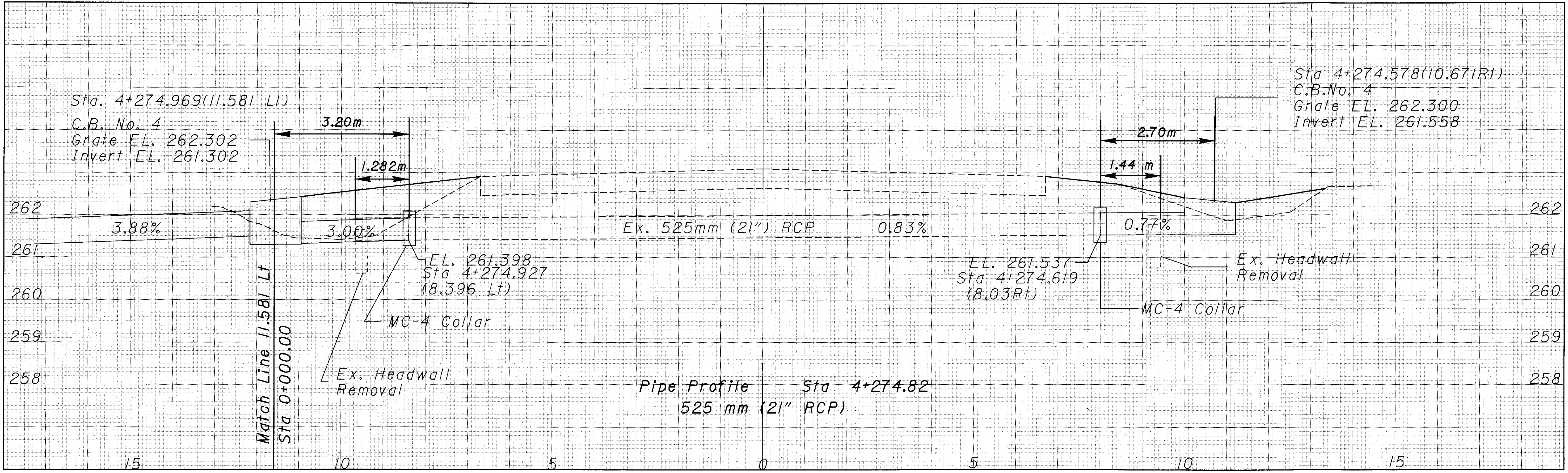
EX EXISTING

EX EXISTING

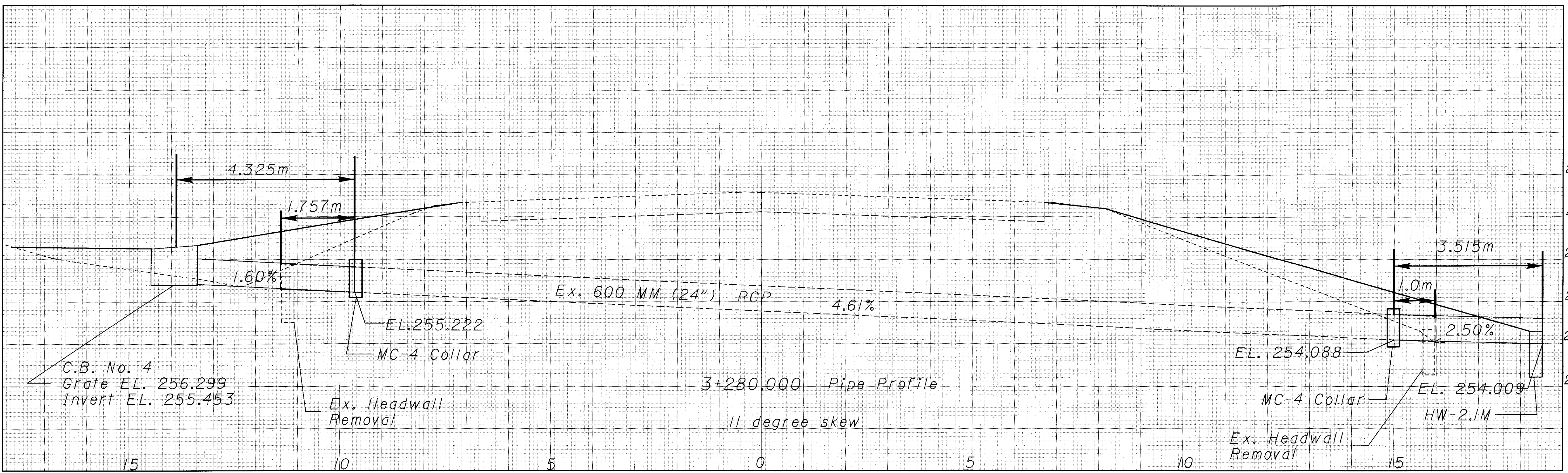
EX EXISTING

23-MAR-1998 08:48 ccasson  
 i:\pr3\jimlesky\but\but2713147\jxs.dgn





Pipe Profile Sta 4+274.82  
525 mm (21" RCP)

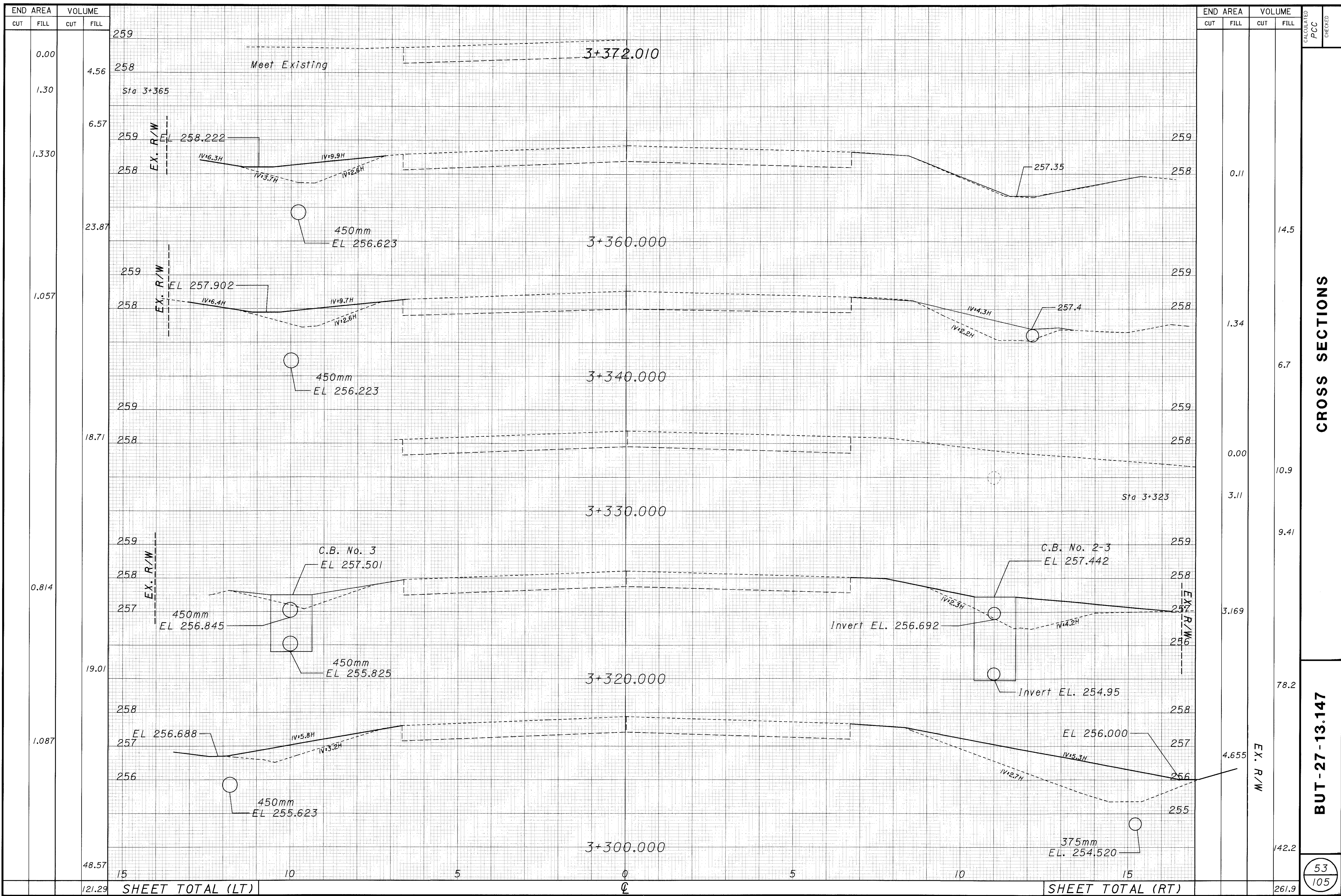


3+280.000 Pipe Profile  
11 degree skew

23-MAR-1998 08:04 ccasson  
i:\pr\3\ccasson\amen\dgn\pondp002.dgn



23-MAR-1998 12:39 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn

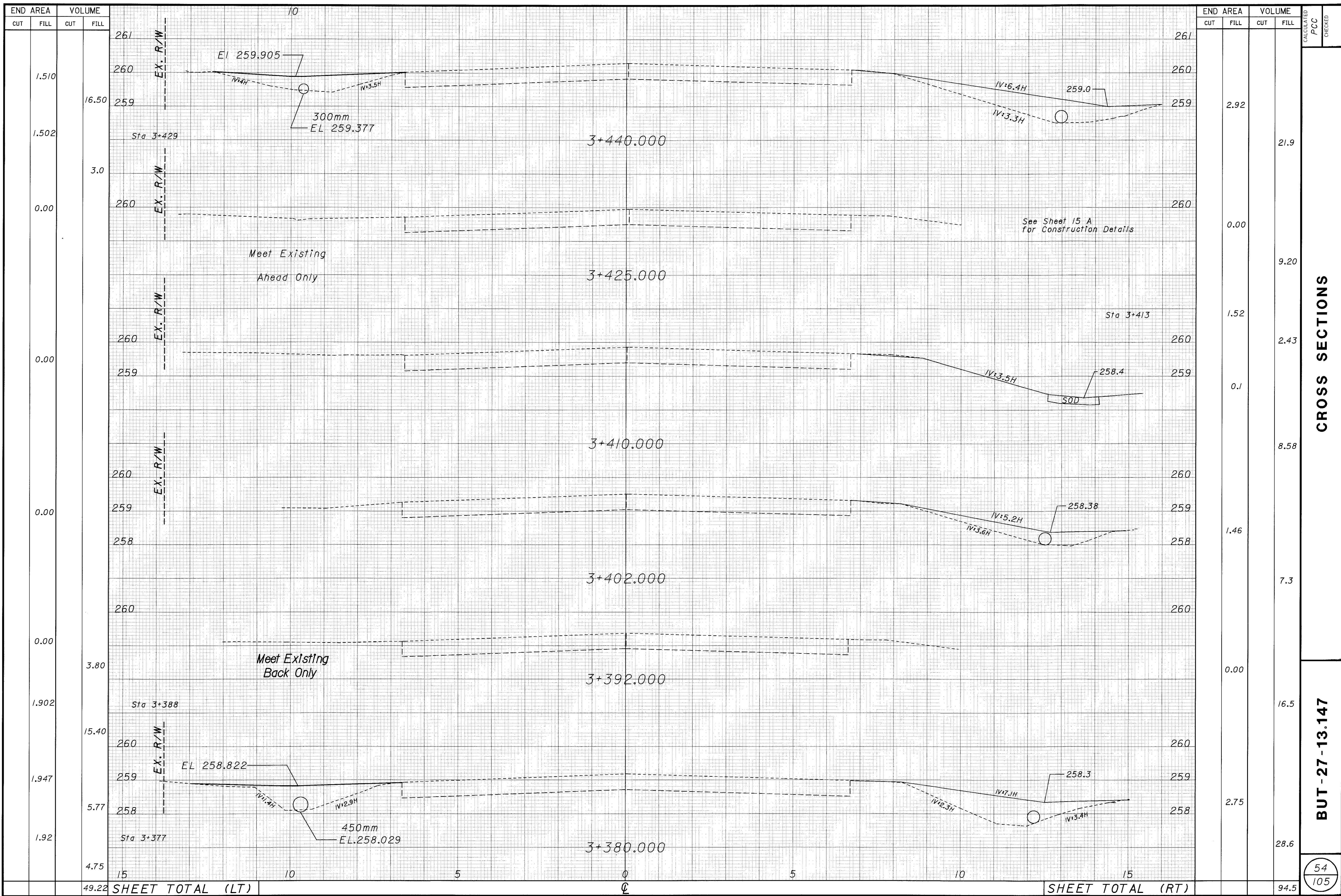


CROSS SECTIONS

BUT-27-13.147



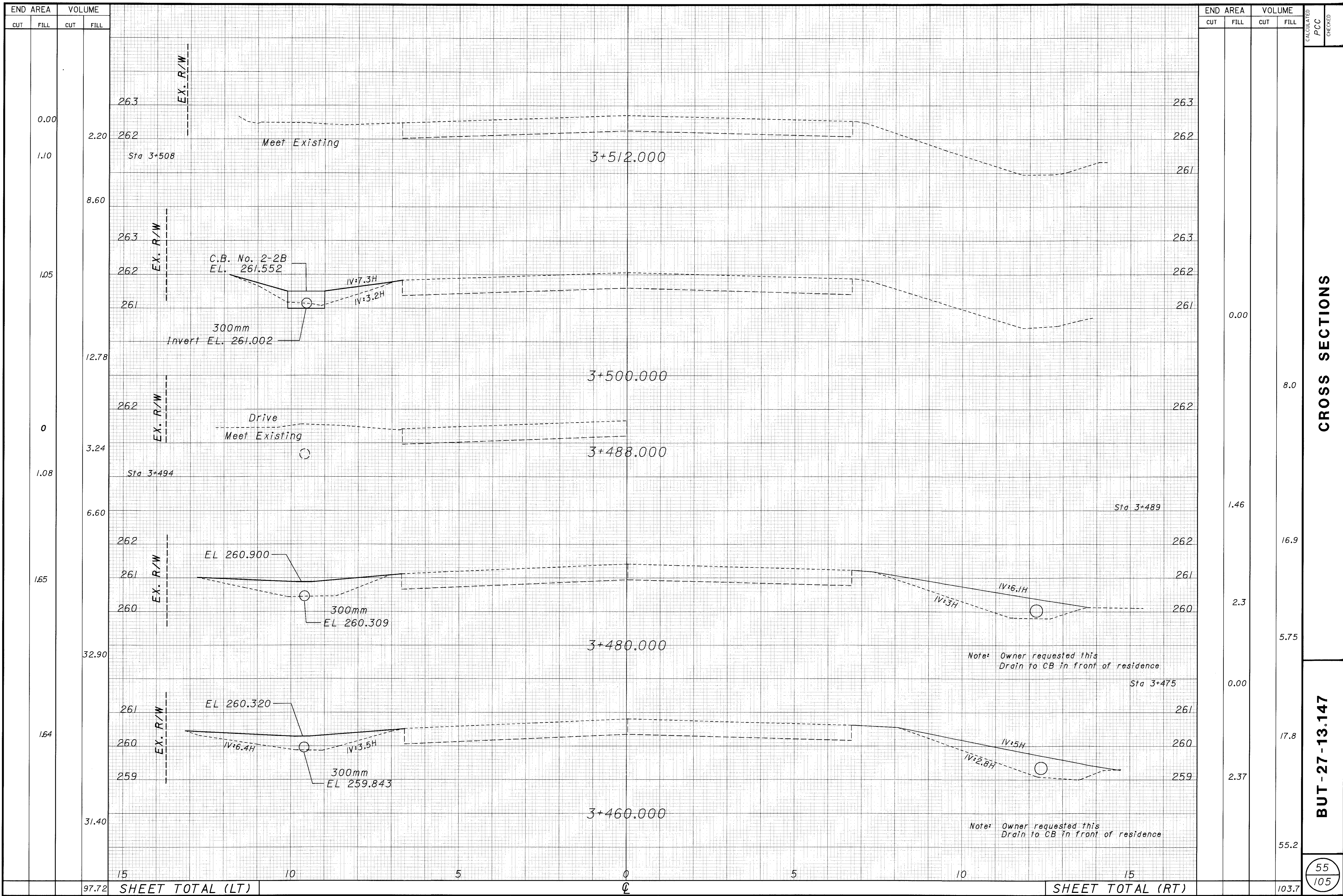
23-MAR-1998 12:40 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn



**CROSS SECTIONS**

**BUT-27-13.147**

23-MAR-1998 12:40 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0.00	1.10	8.60	1.05
0	1.08	6.60	1.65
164	31.40	15	10
97.72		103.7	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
263	262	263	262
262	261	263	262
0.00	8.0	1.46	16.9
3.24	1.08	2.3	5.75
6.60	1.65	2.37	55.2
103.7		103.7	

**CROSS SECTIONS**

**BUT - 27 - 13.147**

55  
105

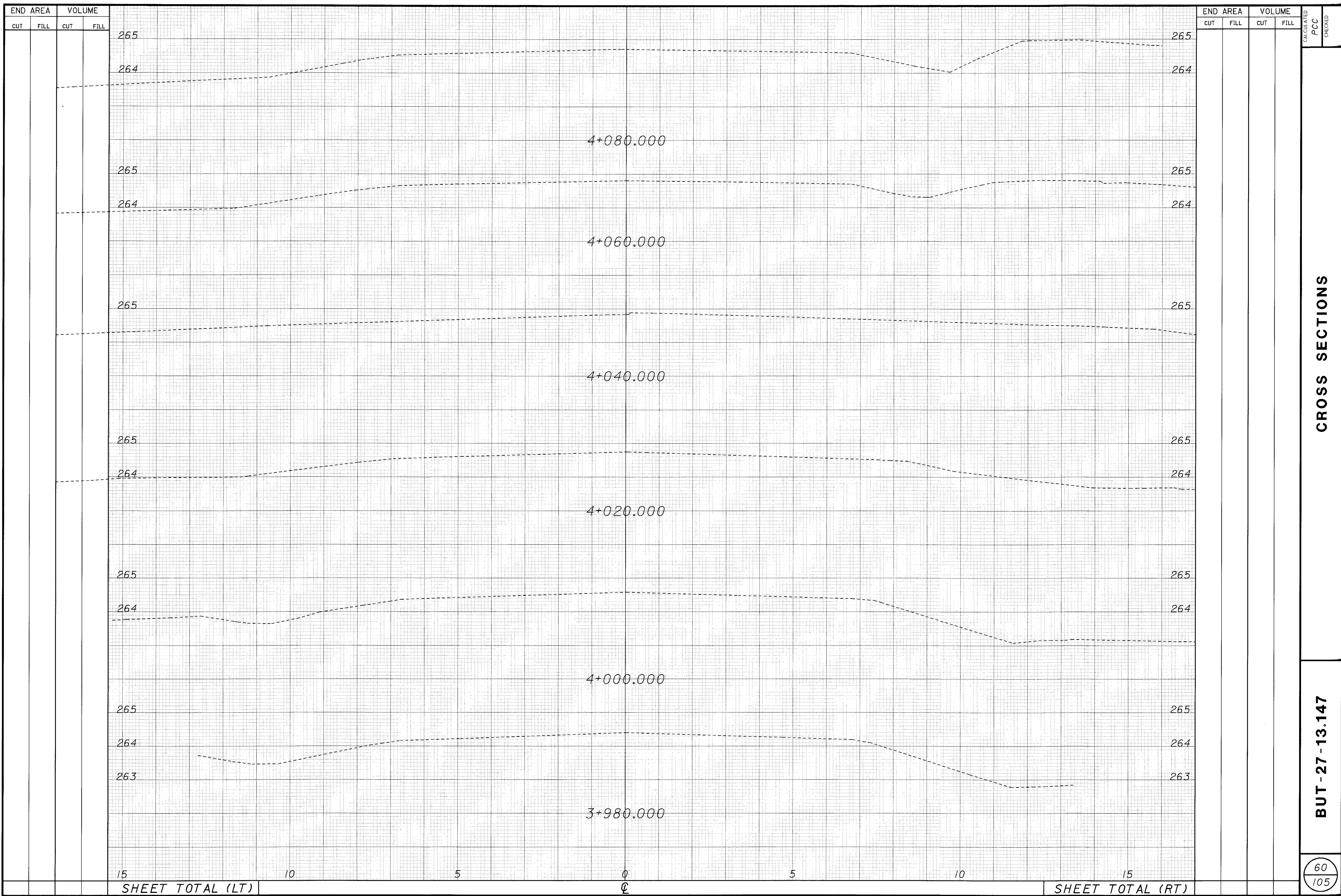








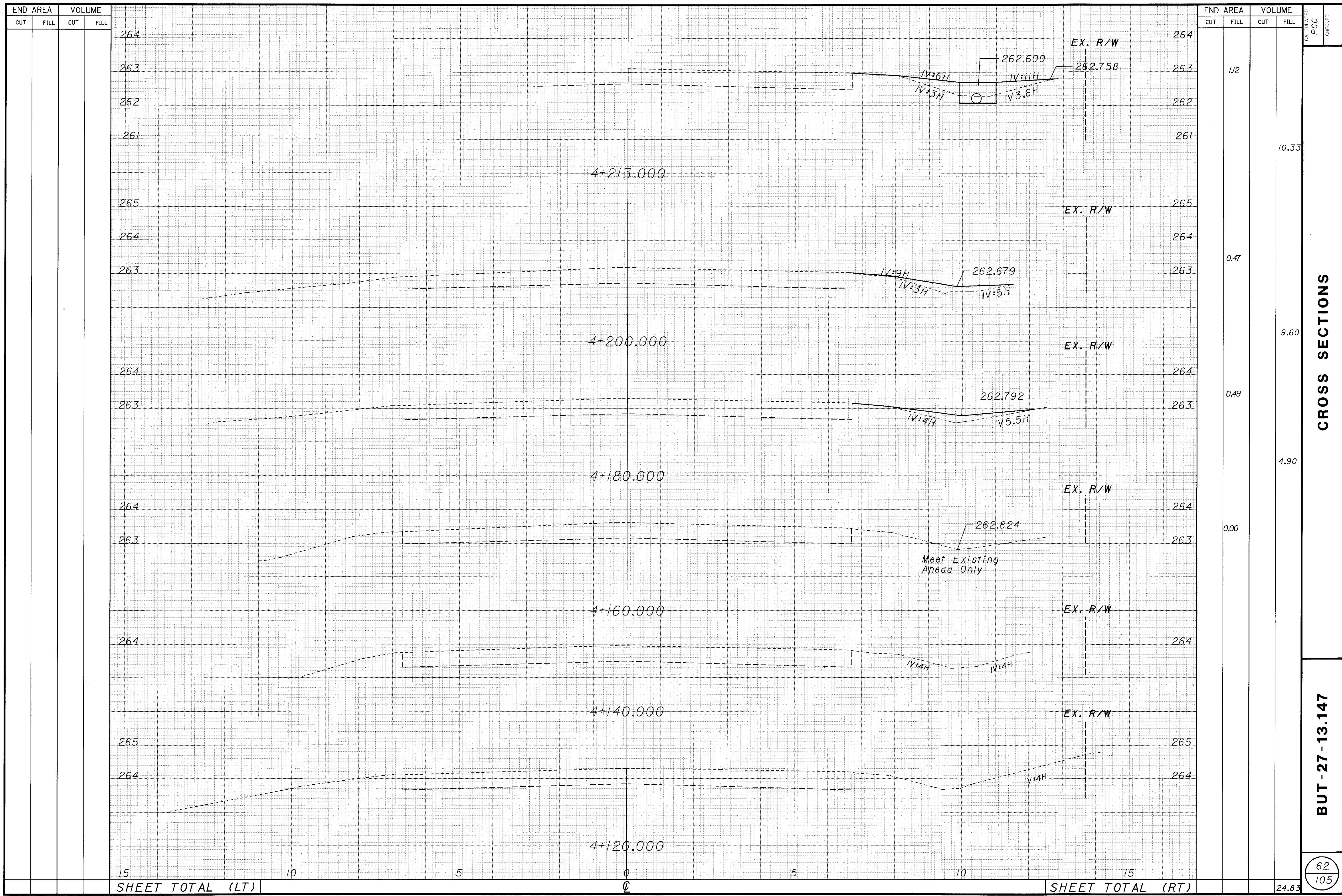
23-MAR-1998 12:42 ccasson  
i:\pr3\ccasson\amen\dgn\crosssec.dgn







23-MAR-1998 13:08 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn



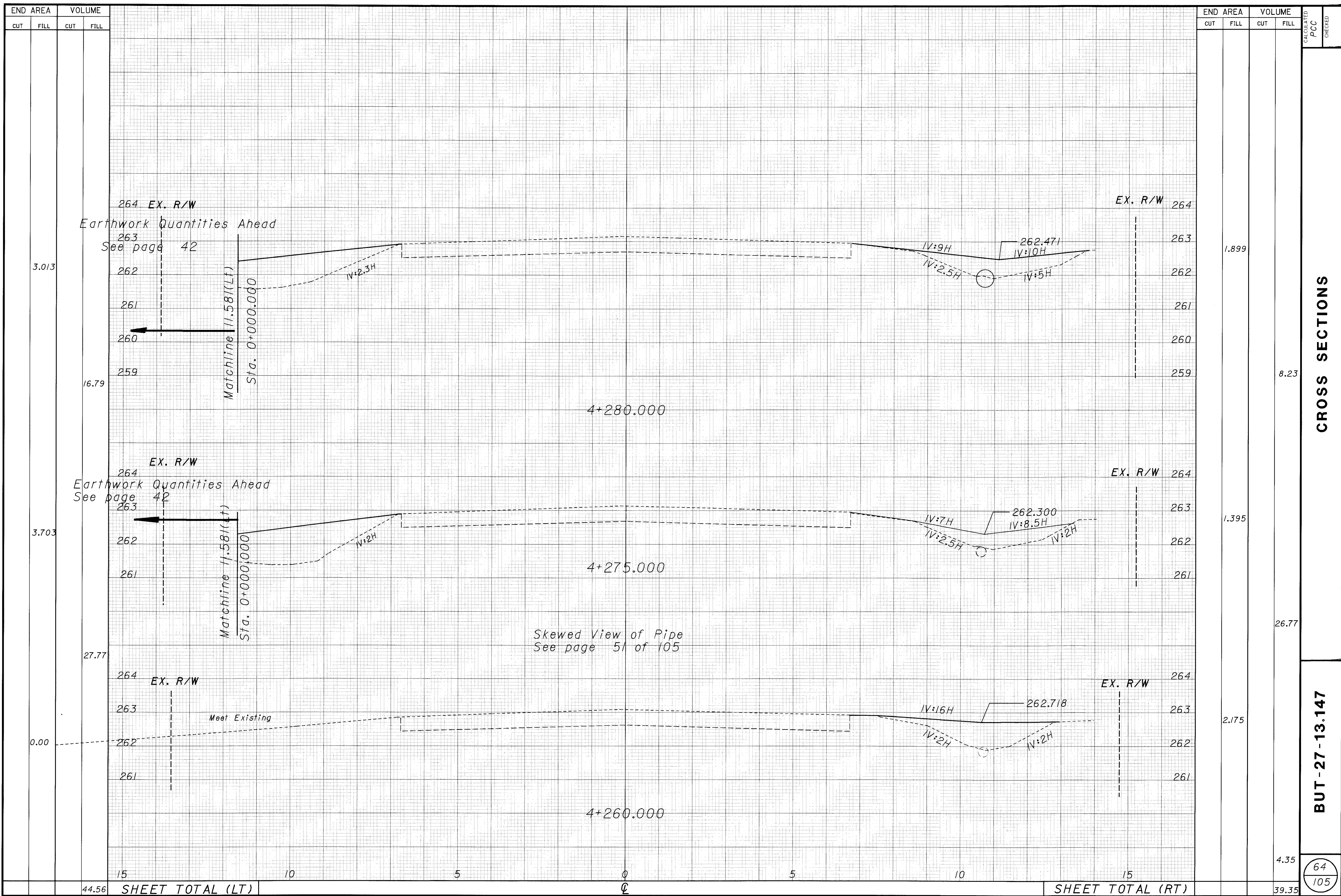
CROSS SECTIONS

BUT - 27 - 13.147

62  
105



23-MAR-1998 13:09 ccasson  
 i:\pr3\ccasson\amen\dgn\cr ossec.dgn



END AREA		VOLUME	
CUT	FILL	CUT	FILL
	3.013		
	3.703		
	0.00		
15		10	
44.56		SHEET TOTAL (LT)	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
	1.899		
	8.23		
	1.395		
	26.77		
	2.175		
	4.35		
39.35		SHEET TOTAL (RT)	

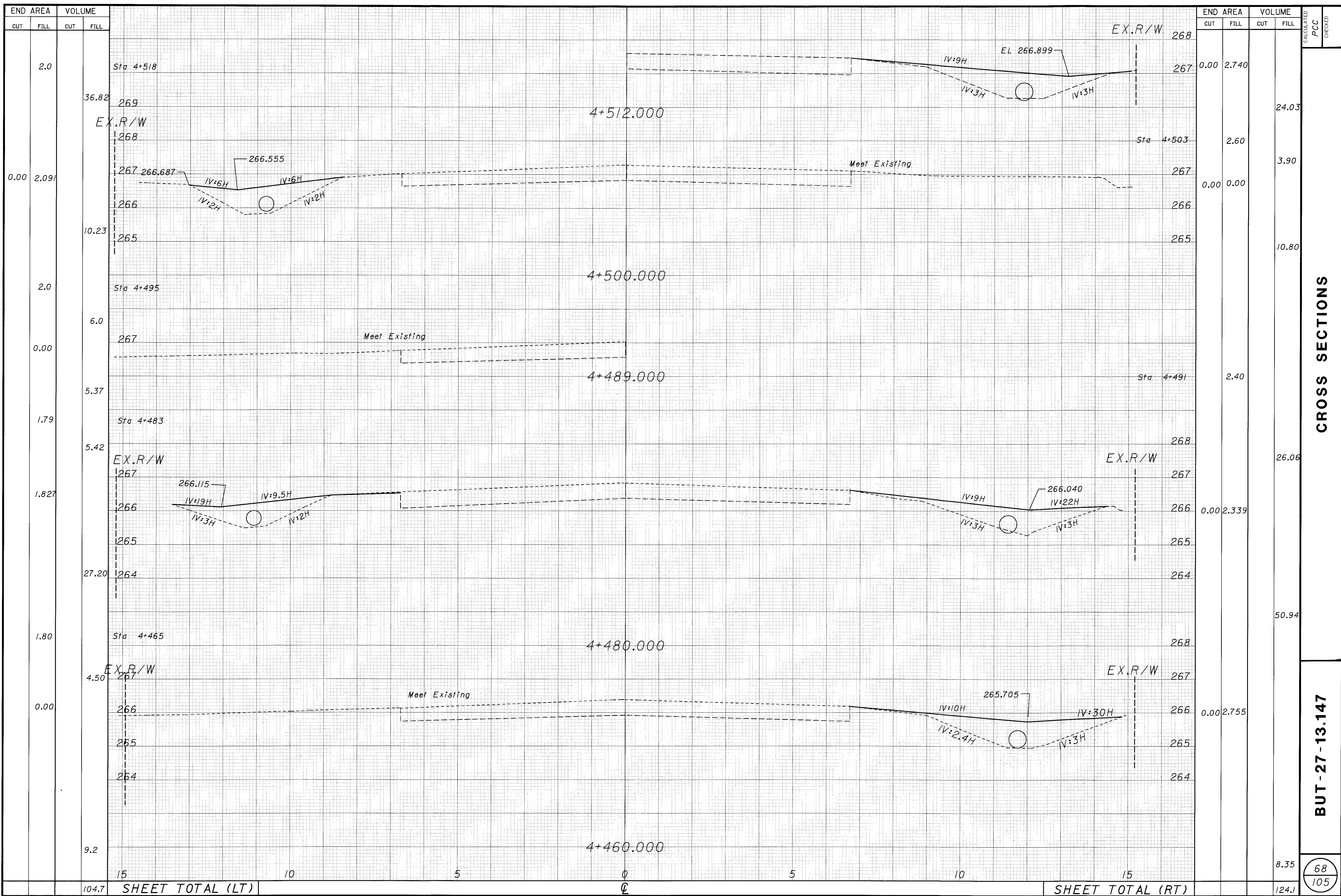
CALCULATED PCC CHECKED  
**CROSS SECTIONS**  
**BUT-27-13.147**  
 64  
 105







23-MAR-1998 13:13 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn

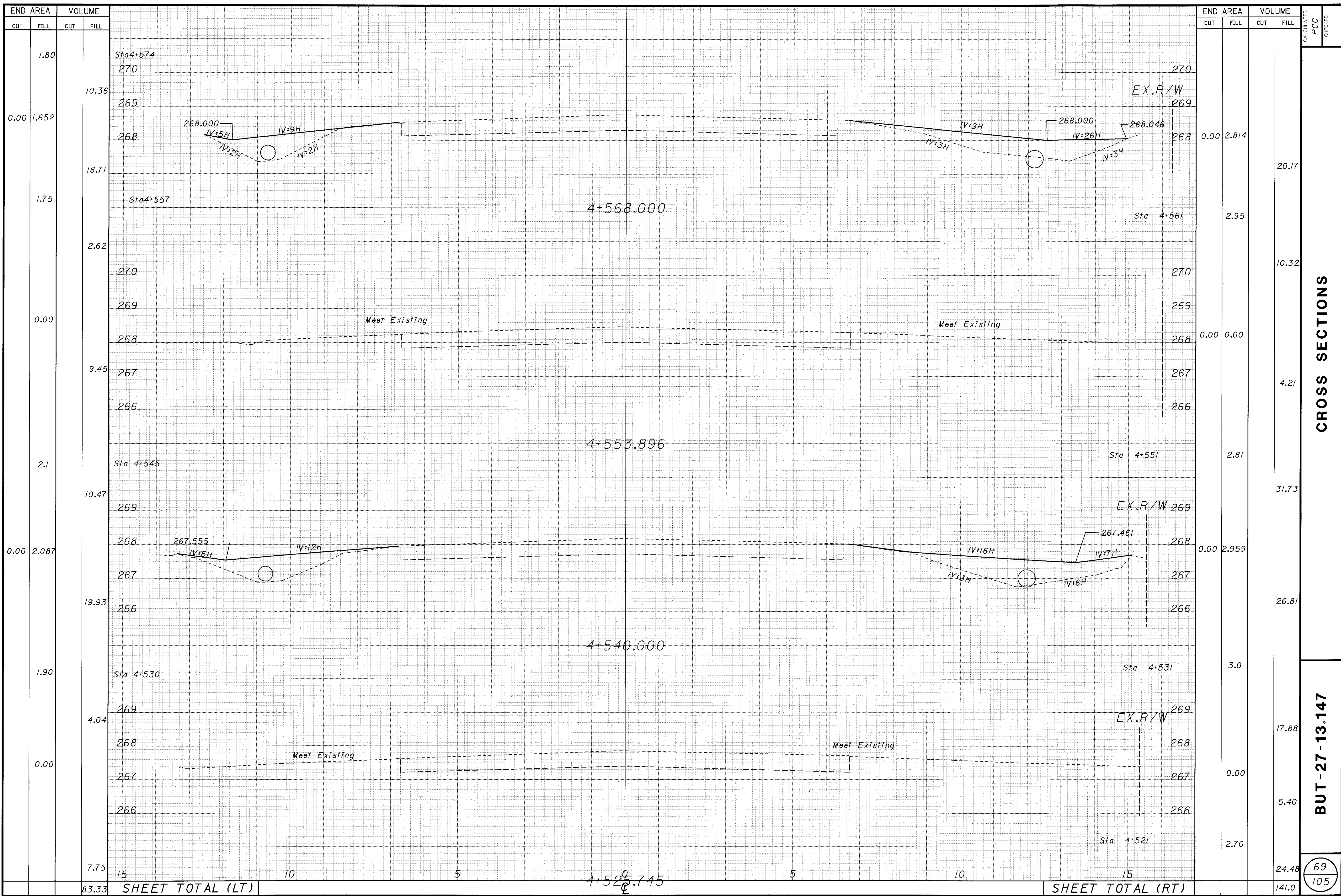


CROSS SECTIONS

BUT-27-13.147

68  
105

23-MAR-1998 13:14 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn



CROSS SECTIONS

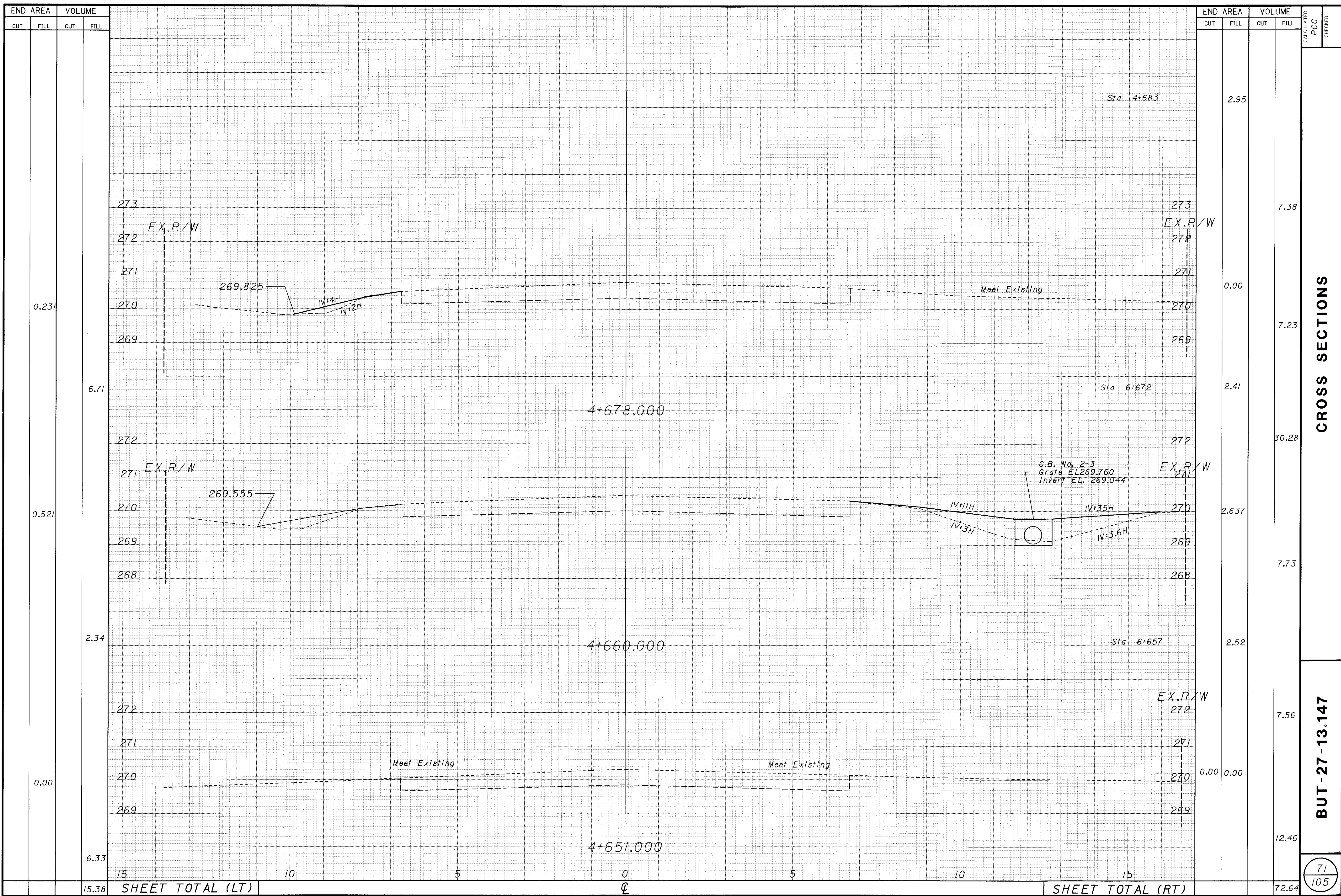
BUT - 27 - 13.147

69  
105





23-MAR-1998 13:23 ccasson  
 i:\pr3\ccasson\amen\dgn\crosssec.dgn



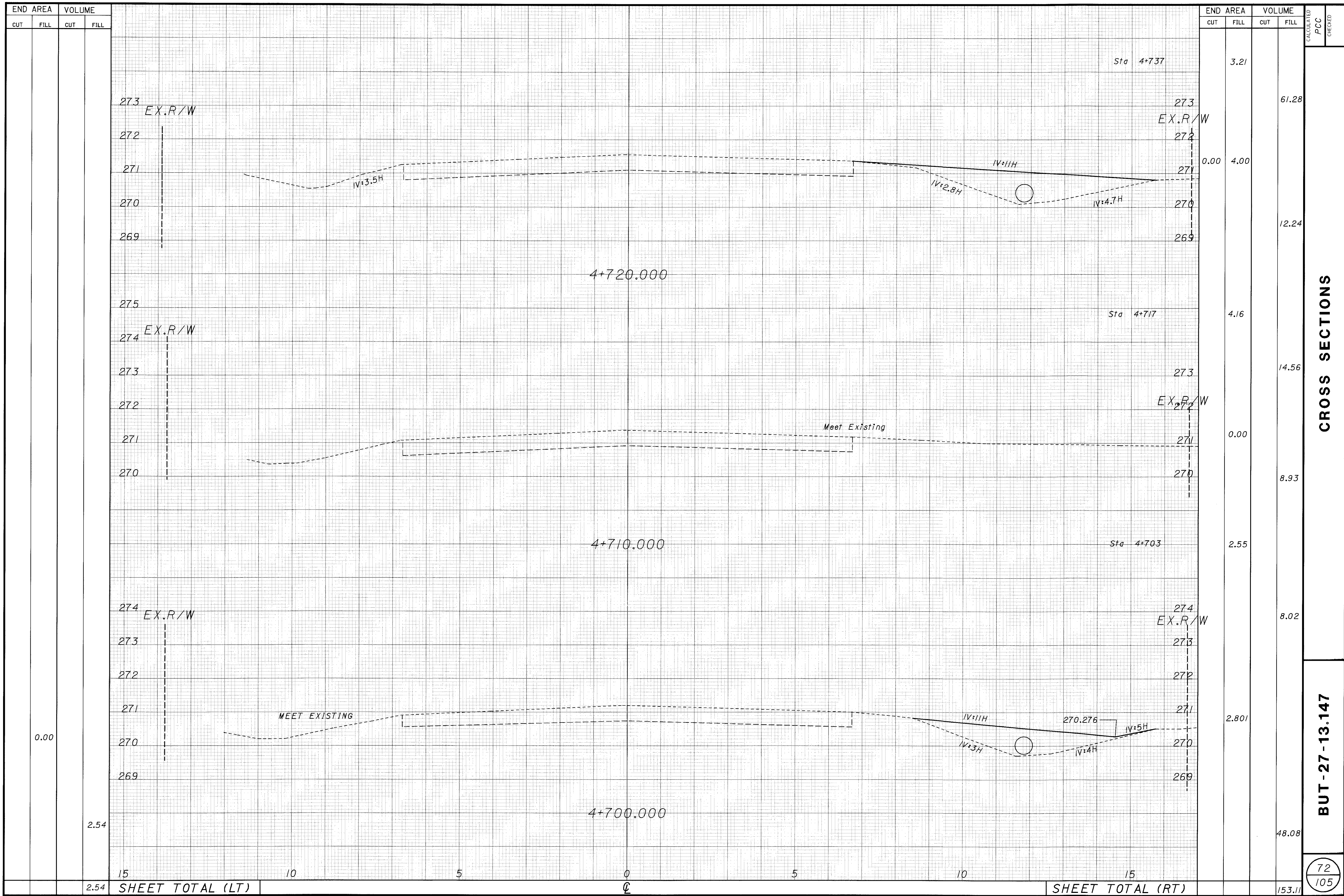
CROSS SECTIONS

BUT - 27 - 13.147

71  
105

CALCULATED  
PCC  
CHECKED

23-MAR-1998 13:23 ccasson  
 i:\pr3\ccasson\amen\vgm\crssec.dgn



CROSS SECTIONS

BUT-27-13.147

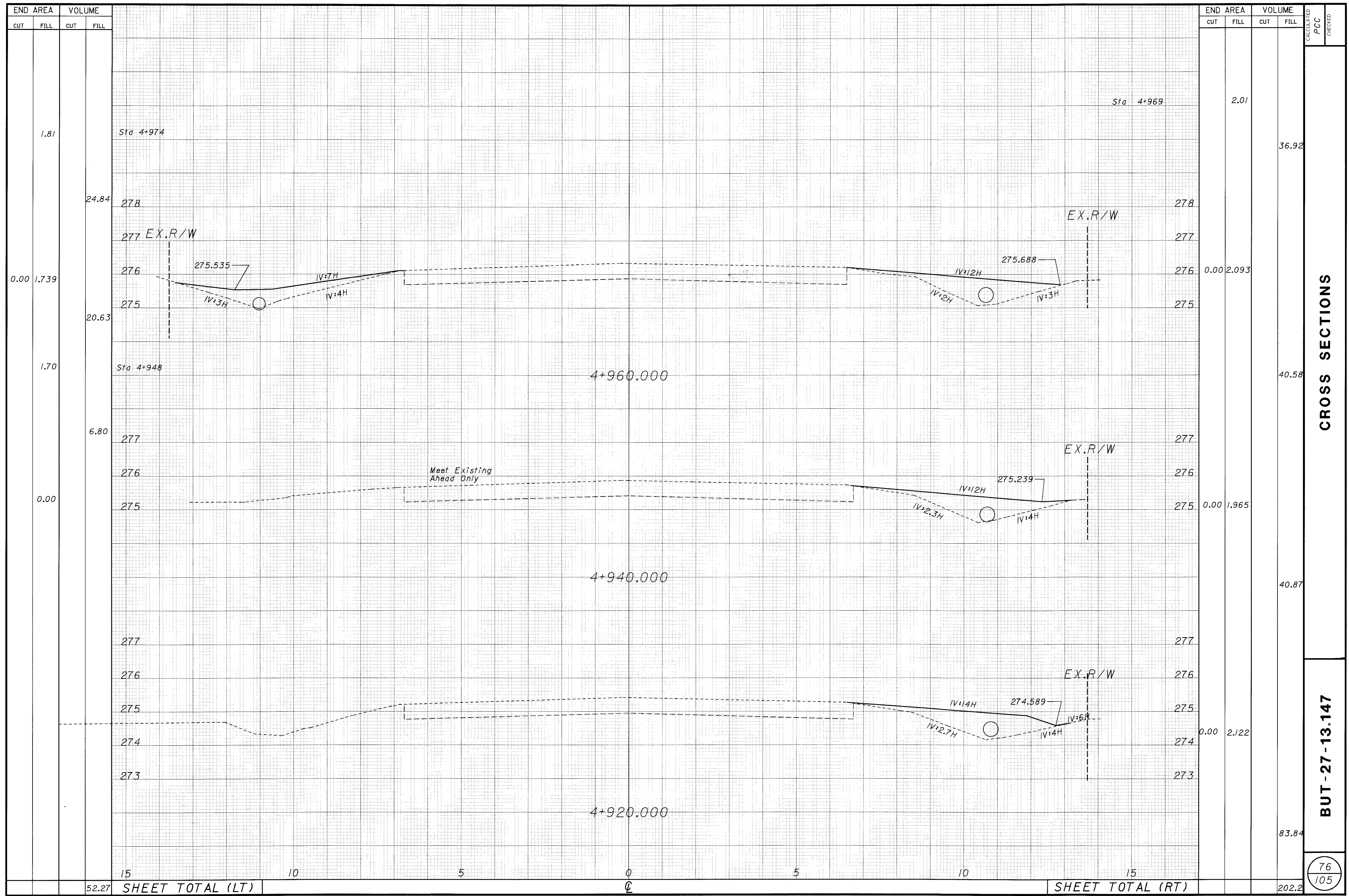
72  
105







23-MAR-1998 13:36 ccasson  
 it:\pr3\ccasson\amen\dgn\cr05sec.dgn



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0.00	1.739		
1.81			
24.84			
20.63			
6.80			
0.00			
27.7			
27.6			
27.5			
27.4			
27.3			
52.27			

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0.00	2.093		
2.01			
36.92			
40.58			
40.87			
0.00	1.965		
2.122			
83.84			
202.2			

END AREA		VOLUME		CALCULATED PCC	CHECKED
CUT	FILL	CUT	FILL		
0.00	2.093				
2.01					
36.92					
40.58					
40.87					
0.00	1.965				
2.122					
83.84					
202.2					

CROSS SECTIONS

BUT - 27 - 13.147

76  
105

SHEET TOTAL (LT)

SHEET TOTAL (RT)

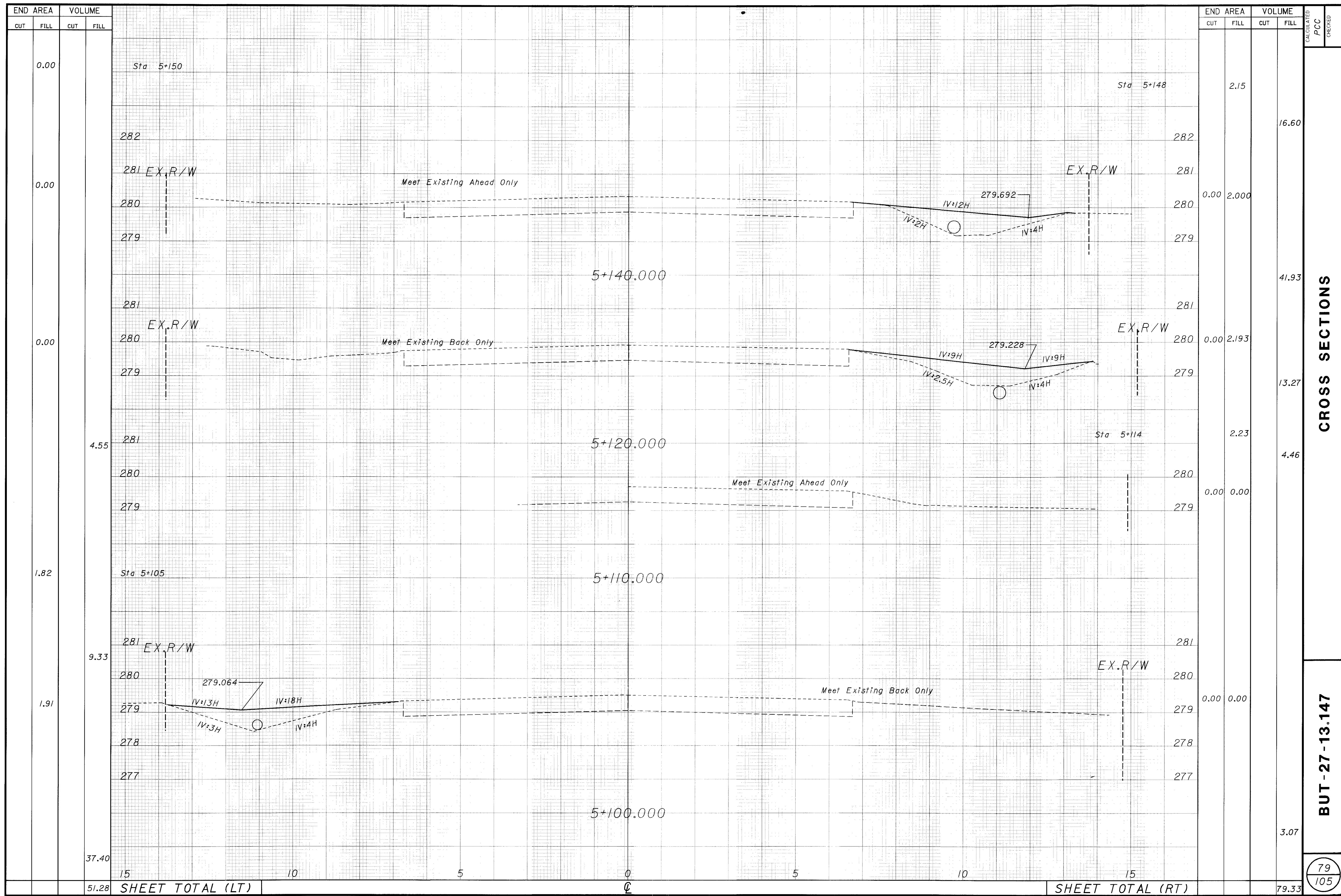
Q







23-MAR-1998 13:38 ccasson  
 i:\pr3\ccasson\amen\dgm\crosssec.dgn



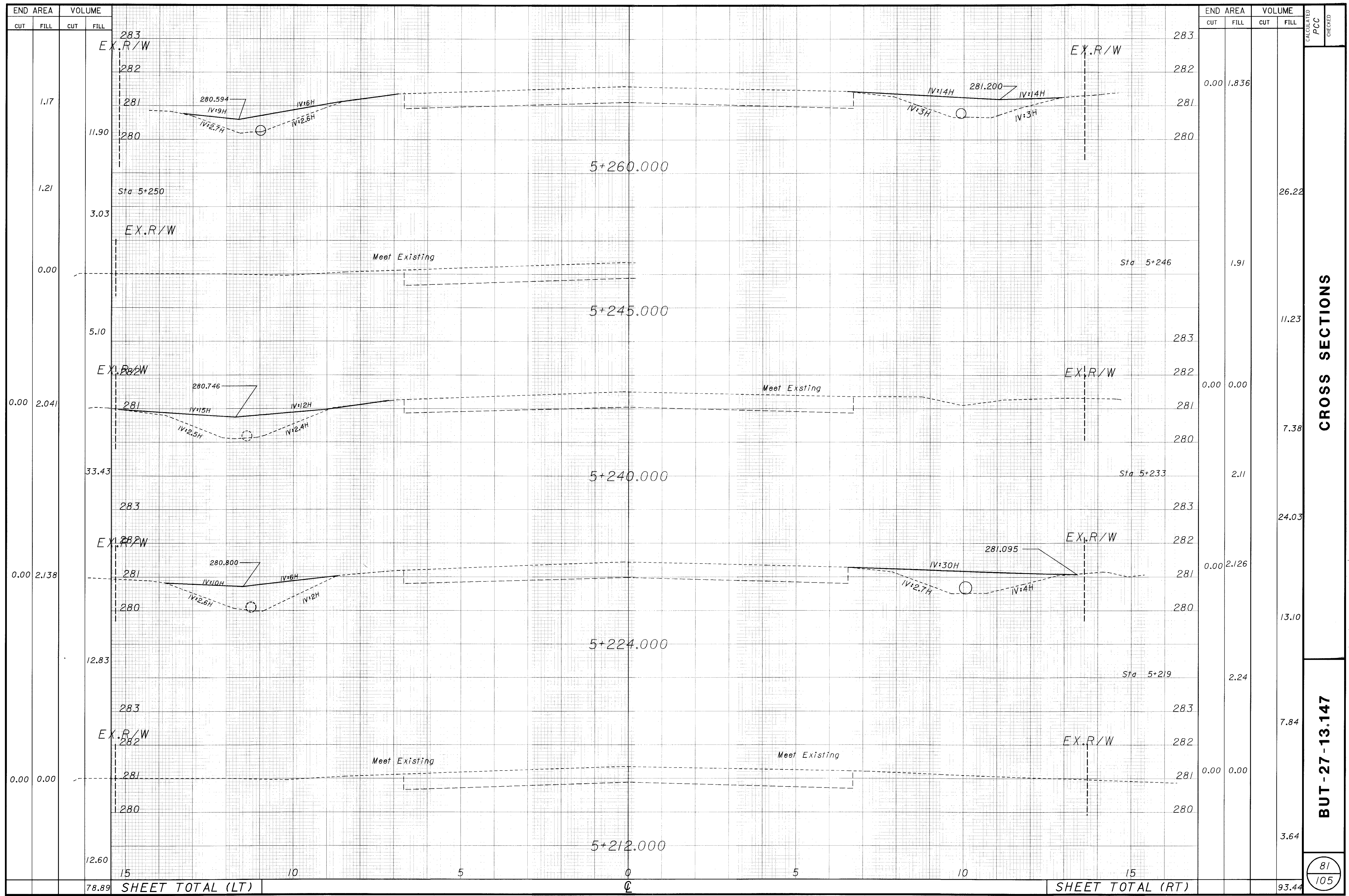
**CROSS SECTIONS**

**BUT-27-13.147**

79  
105



23-MAR-1998 13:39 ccasson  
 i:\pr3\ccasson\amen\dgn\cr-05sec.dgn



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		11.90	
		3.03	
		5.10	
		33.43	
		12.83	
		12.60	
		78.89	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0.00	1.836
		1.91	
		0.00	0.00
		2.11	
		0.00	2.126
		2.24	
		0.00	0.00
		3.64	
		93.44	

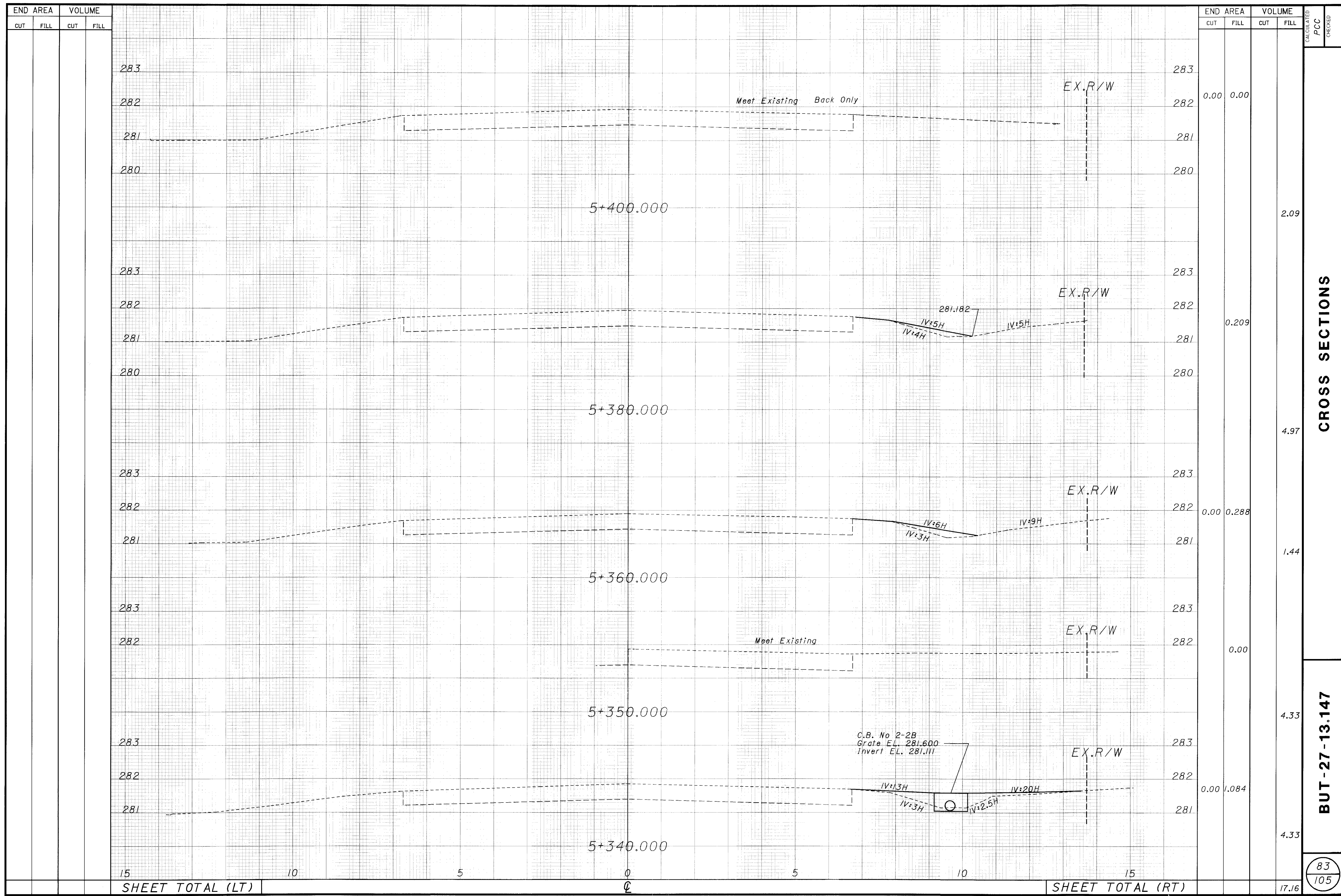
CALCULATED PCC CHECKED  
**CROSS SECTIONS**  
**BUT - 27 - 13.147**  
 81 / 105

SHEET TOTAL (LT)

SHEET TOTAL (RT)



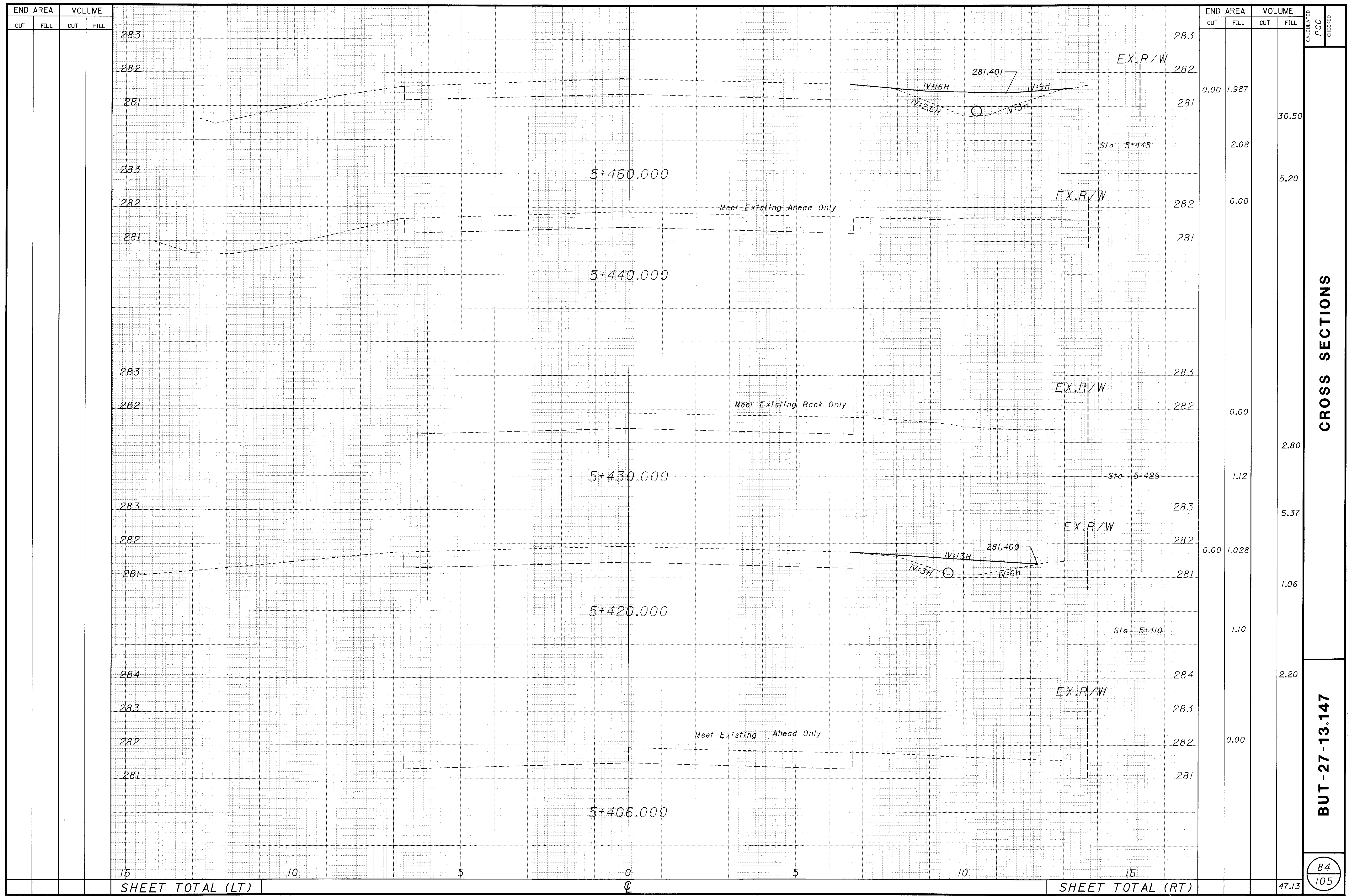
23-MAR-1998 13:49 ccasson  
 i:\pr3\ccasson\amen\dgm\crosssec.dgn



**CROSS SECTIONS**

**BUT-27-13.147**

23-MAR-1998 13:50 cccasson  
 i:\pr3\ccasson\amen\dgn\cr\_05sec.dgn



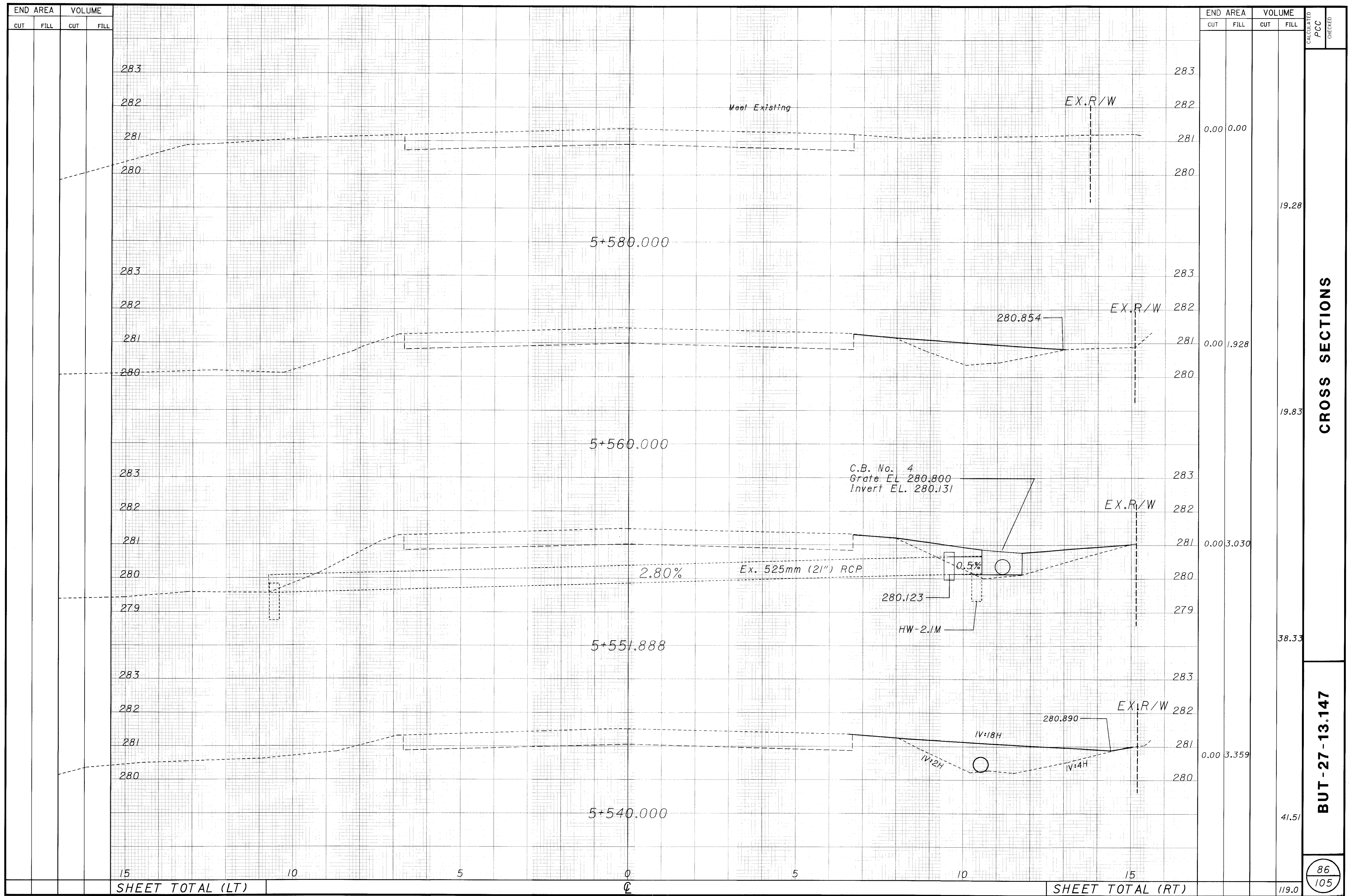
CROSS SECTIONS

BUT-27-13.147





23-MAR-1998 13:50 ccasson  
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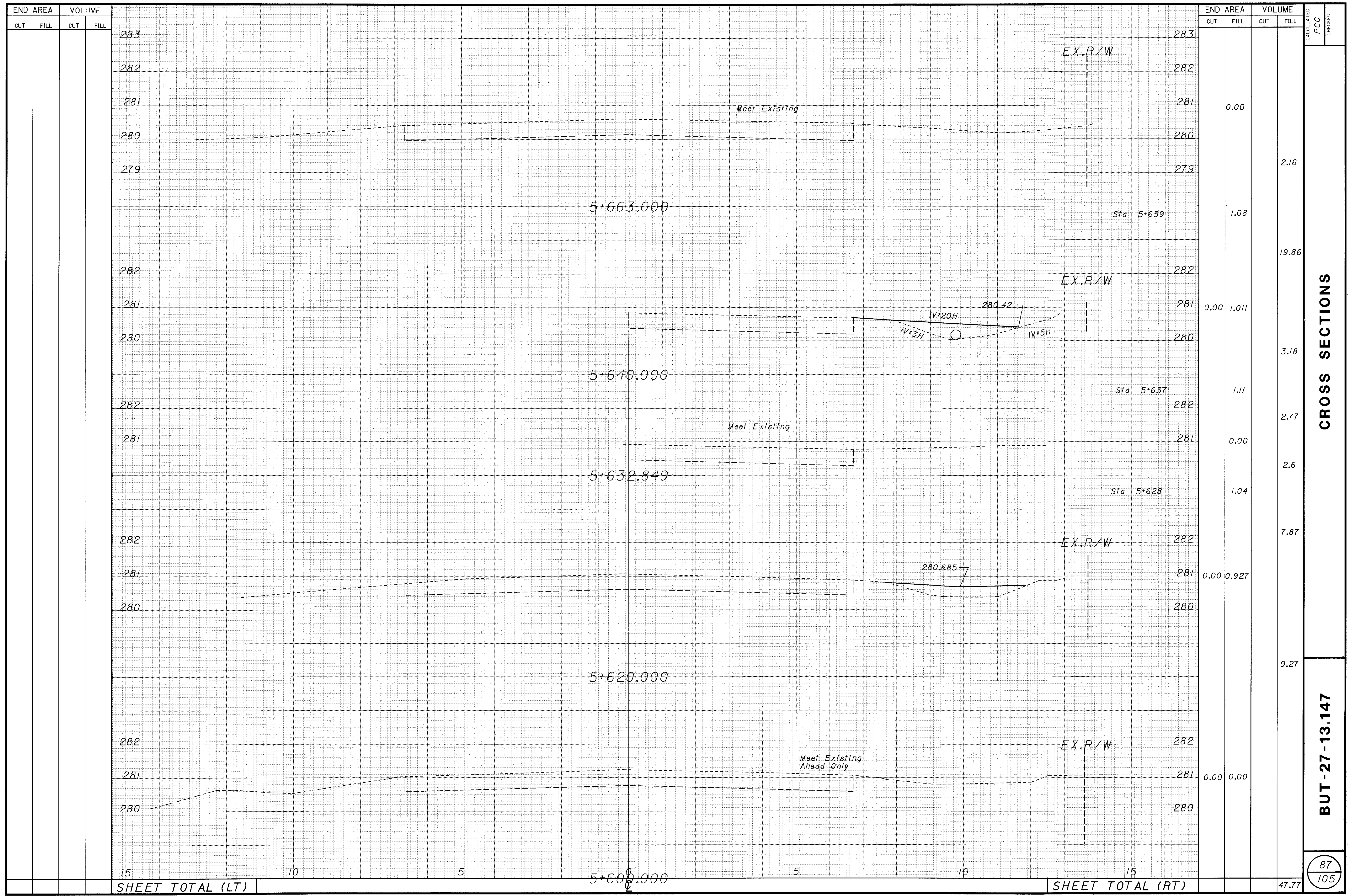


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		15	10
<b>SHEET TOTAL (LT)</b>			

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		15	10
		19.28	19.83
		38.33	41.51
		119.0	
<b>SHEET TOTAL (RT)</b>			

CALCULATED PCC CHECKED  
**BUT-27-13.147**  
 86 / 105

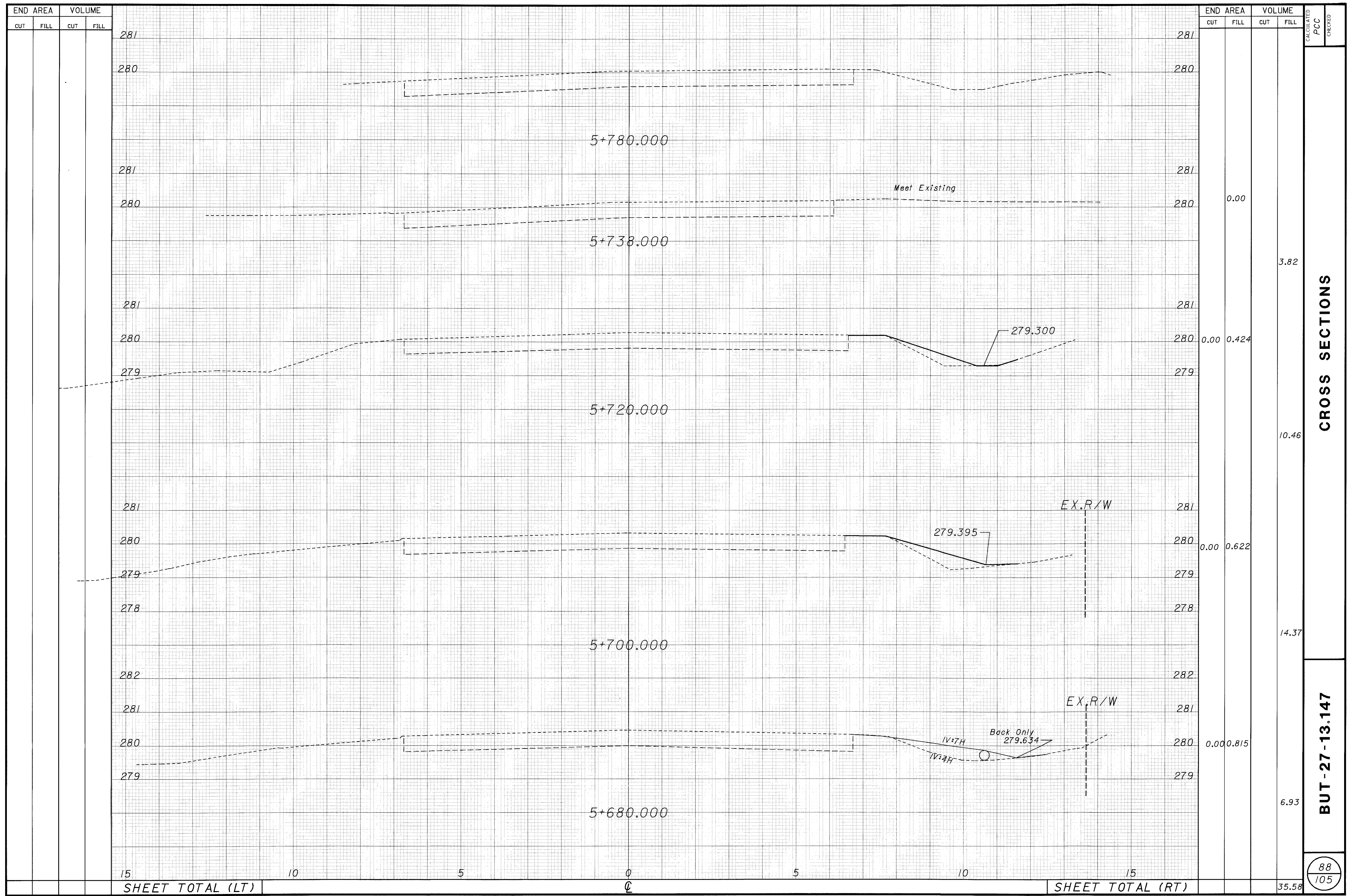
23-MAR-1998 13:51 ccasson  
 i:\pr3\ccasson\amen\dgm\cr08sec.dgn



CROSS SECTIONS

BUT-27-13.147

23-MAR-1998 13:51 ccasson  
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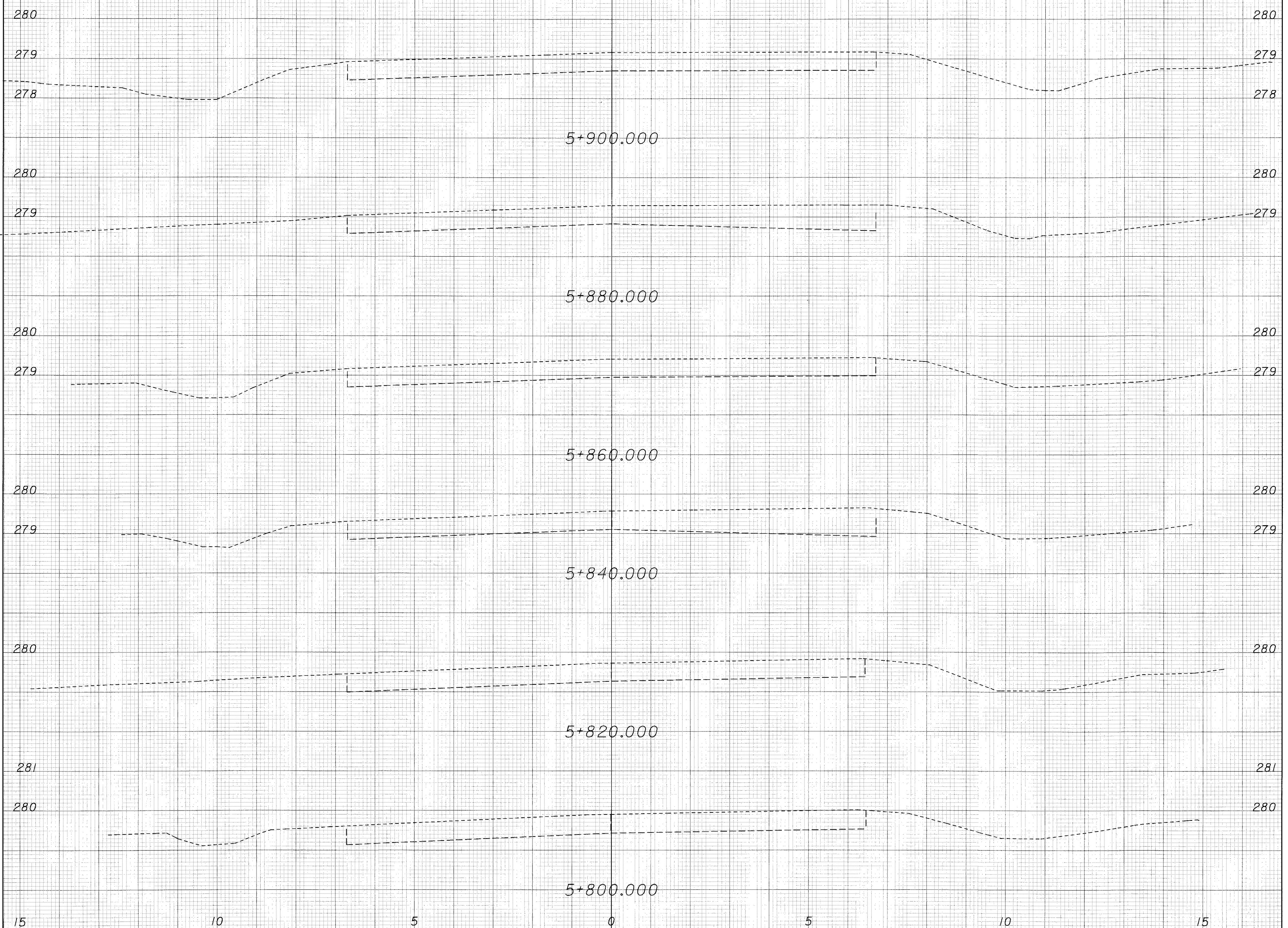


23-MAR-1998 13:52 ccasson  
i:\p\3\ccasson\amen\dgn\cr\sssec.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	PCC	CHECKED
------------	-----	---------



SHEET TOTAL (LT)

SHEET TOTAL (RT)

CROSS SECTIONS

BUT-27-13.147

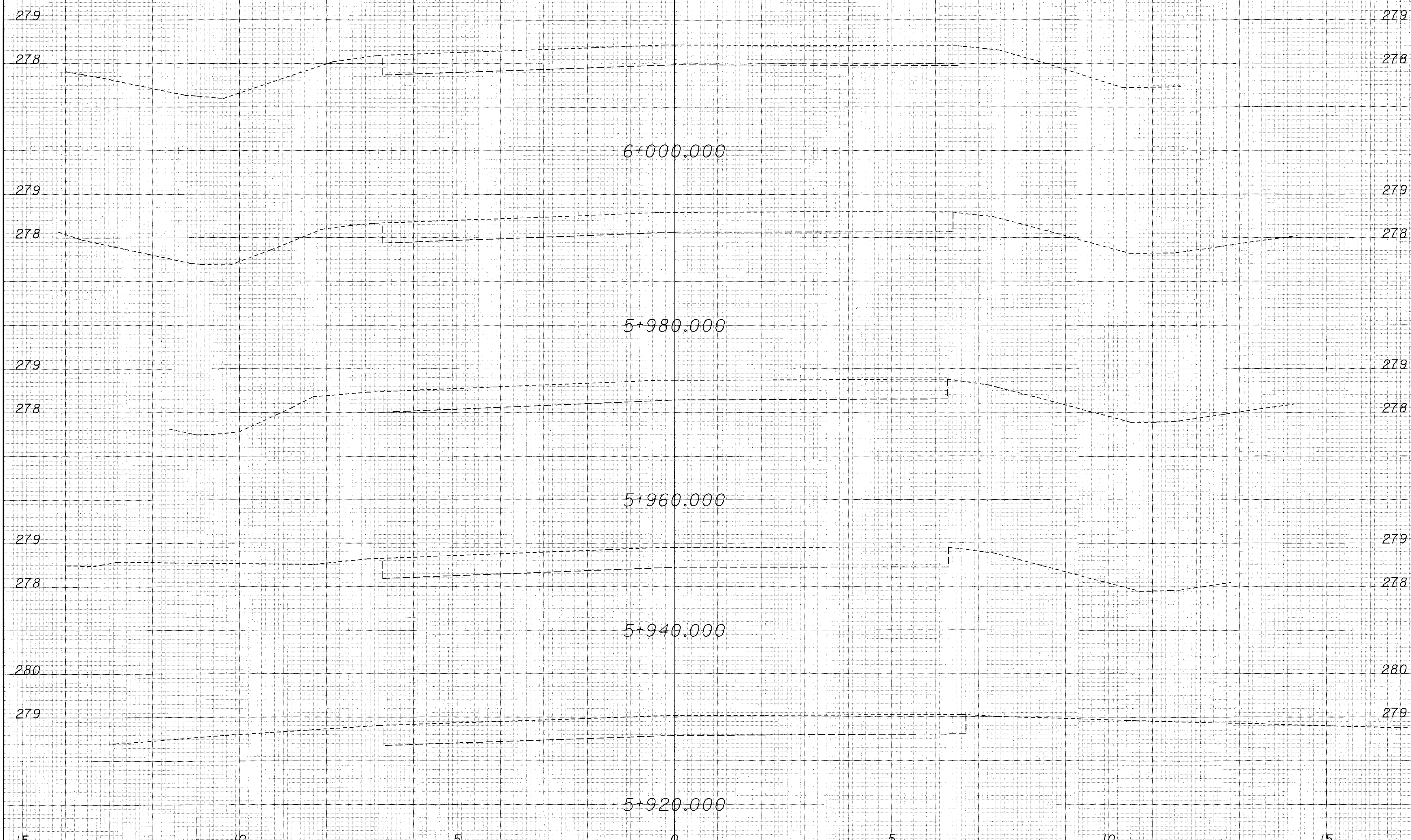
89  
105

23-MAR-1998 13:52 ccasson  
i:\pr3\ccasson\amen\dgn\cr\essec.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	PCC	CHECKED
------------	-----	---------



15	10	5	0	5	10	15
SHEET TOTAL (LT)			0	SHEET TOTAL (RT)		

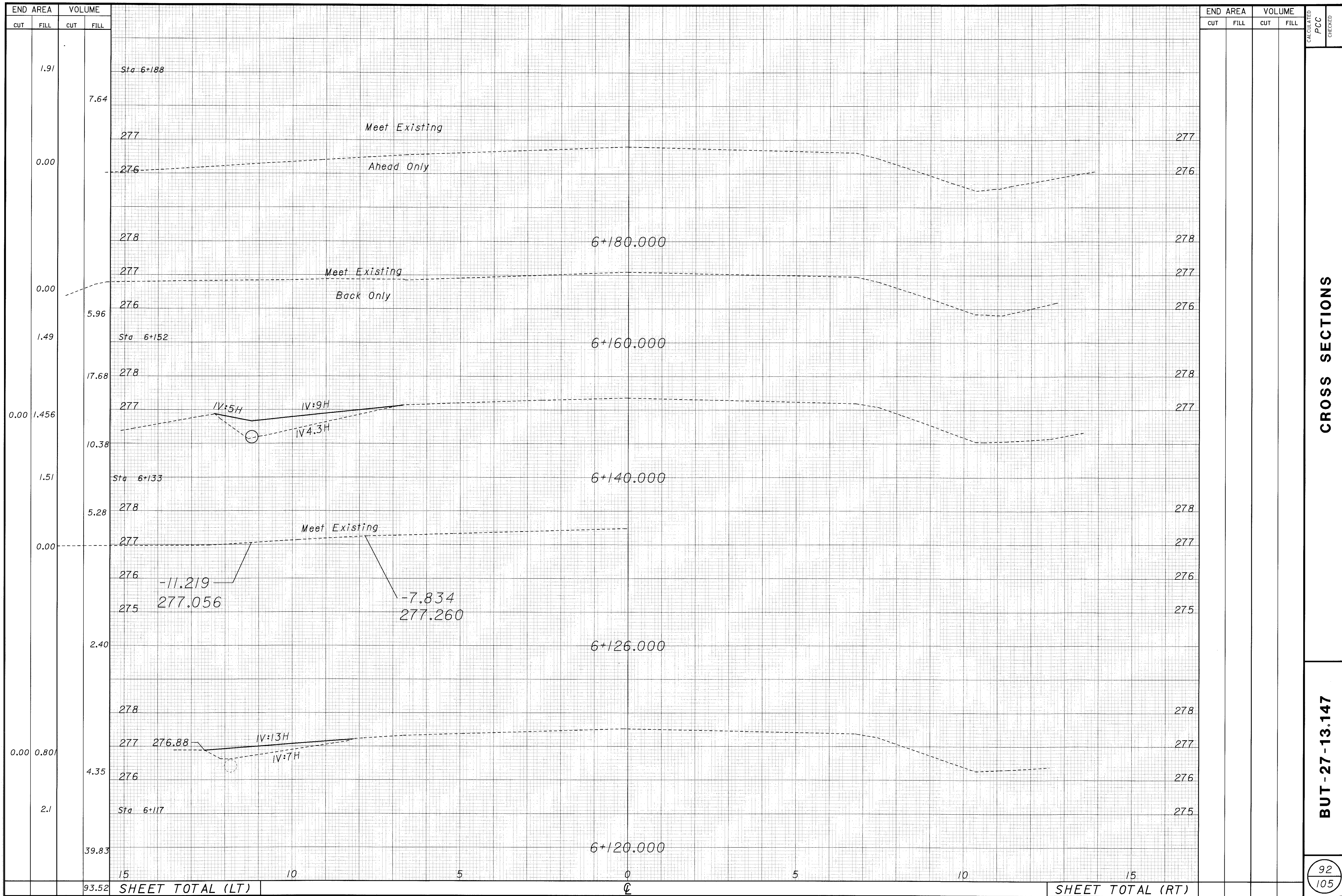
CROSS SECTIONS

BUT - 27 - 13.147

90  
105



23-MAR-1998 13:57 ccasson  
 i:\p3\ccasson\amen\dgn\cr\_osssec.dgn



CROSS SECTIONS

BUT-27-13.147

92  
105





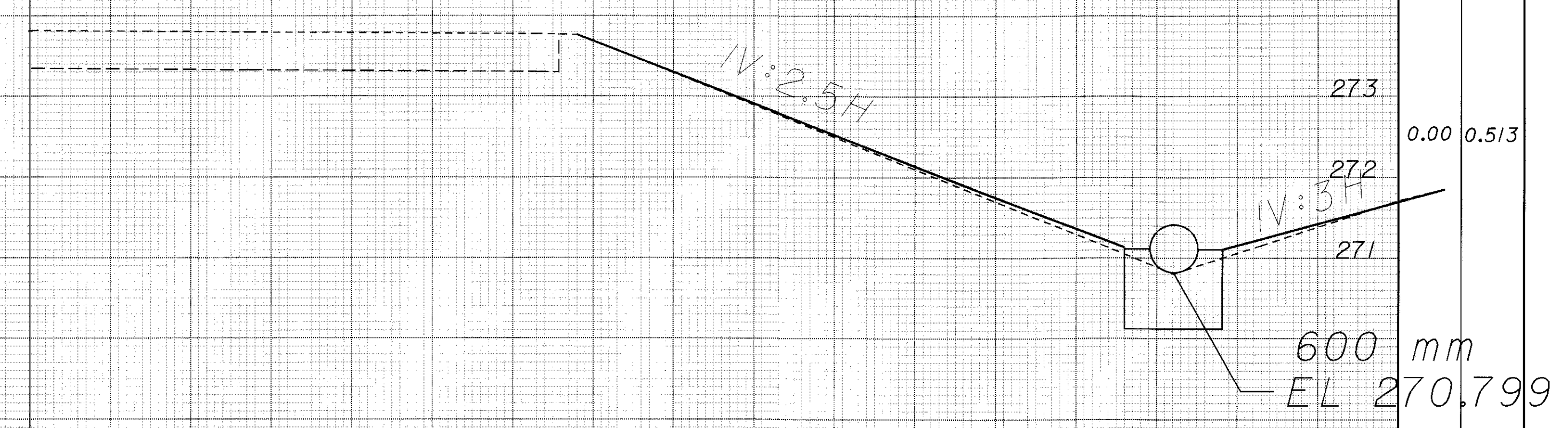
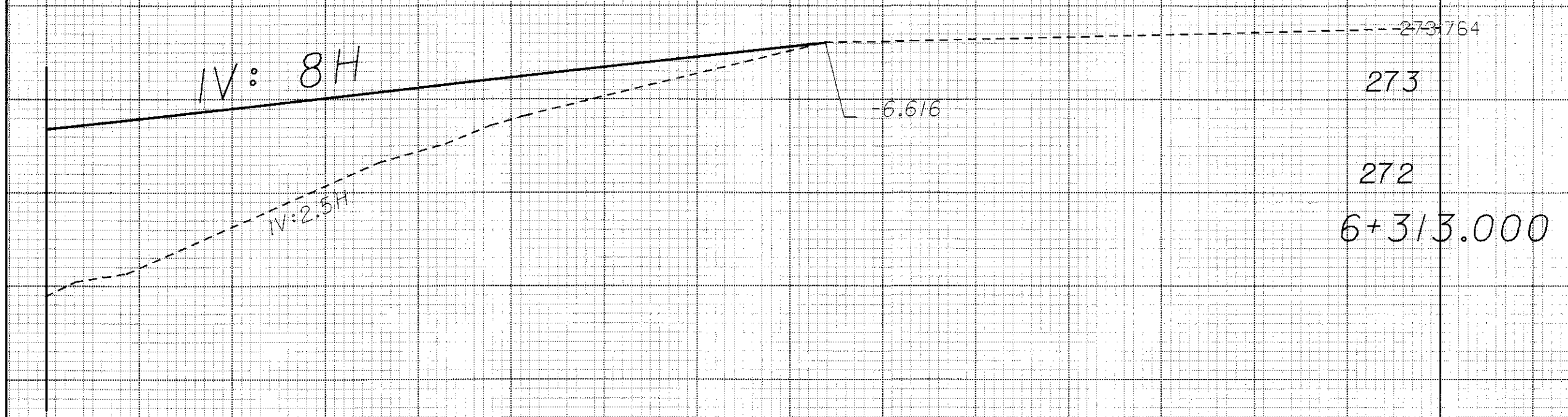


END AREA		VOLUME	
CUT	FILL	CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
PCC  
CHECKED

0.00 18.51



6+310.000

147.81 SHEET TOTAL (LT)

39.68 SHEET TOTAL (RT)

CROSS SECTIONS

BUT-27-13.147

95  
105

23-MAR-1998 14:01 ccasson  
i:\pr3\ccasson\amen\dgn\cr05sec.dgn



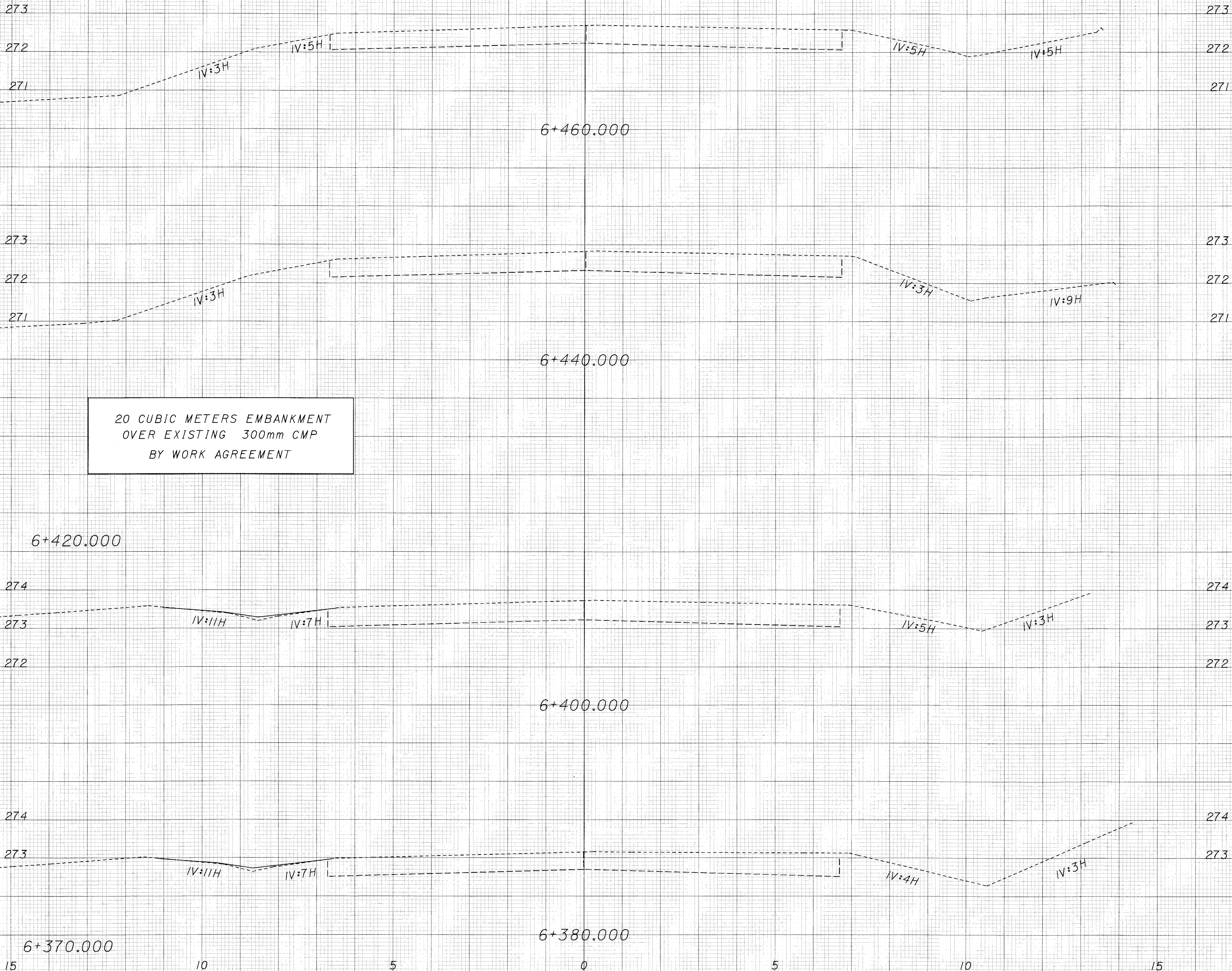




END AREA		VOLUME	
CUT	FILL	CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	PCC	CHECKED
------------	-----	---------



15	10	5	0	5	10	15
SHEET TOTAL (LT)			0	SHEET TOTAL (RT)		

CROSS SECTIONS

BUT-27-13.147

99  
105

23-MAR-1998 14:03 ccasson  
i:\pr3\ccasson\amen\dgn\crosssec.dgn





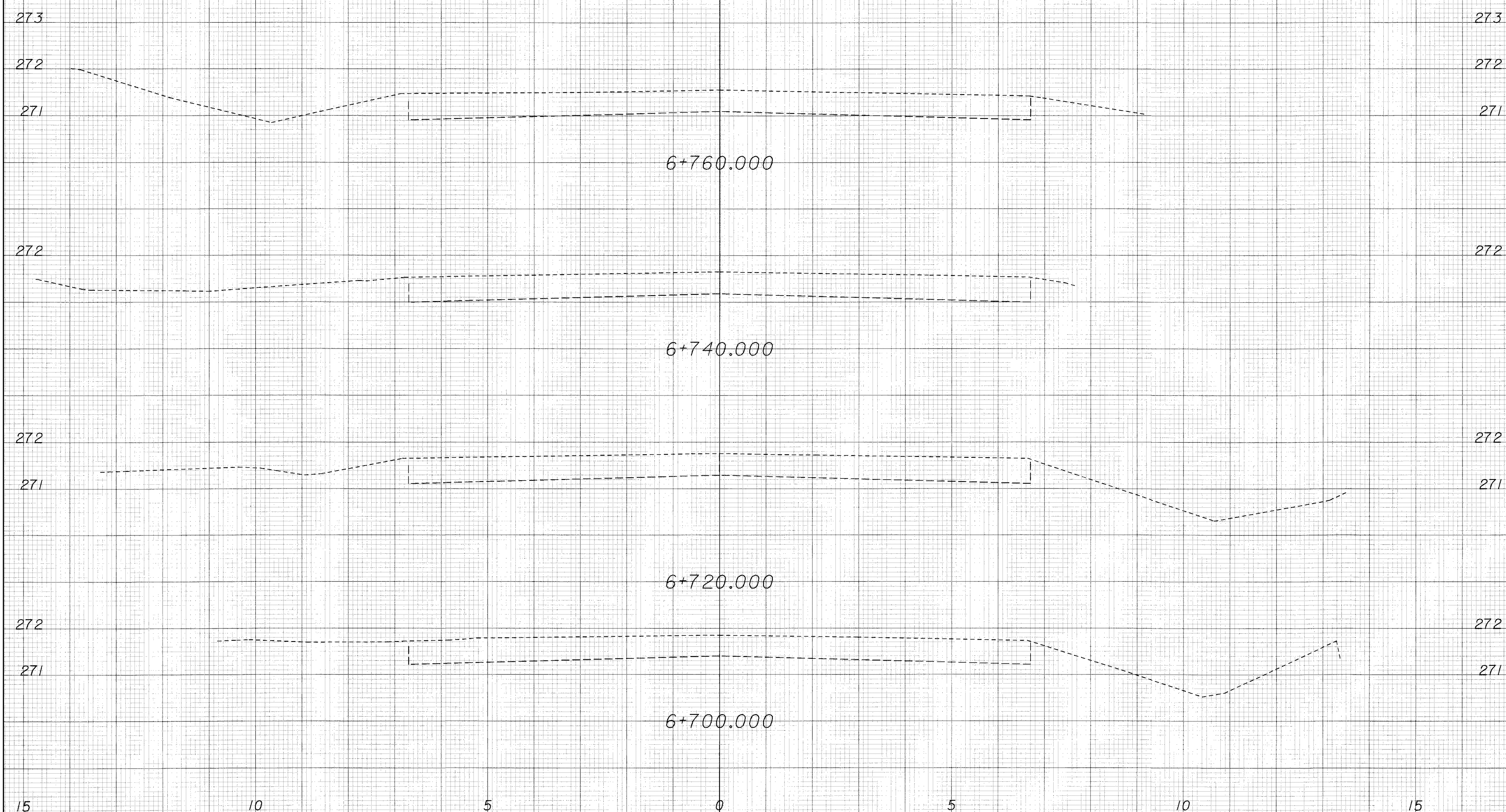


END AREA		VOLUME	
CUT	FILL	CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	PCC
	CHECKED

Embankment (Shts 42-44)	71.4 CUBIC METERS
Embankment (Shts 52-102) left side	2147.52 CUBIC METERS
Embankment (Shts 52-102) right side	3383.66 CUBIC METERS
<hr/>	
TOTAL Embankment	5602.58 CUBIC METERS
TOTAL TO BE CARRIED TO GENERAL SUMMARY	



15 10 5 0 5 10 15  
SHEET TOTAL (LT)

SHEET TOTAL (RT)

CROSS SECTIONS

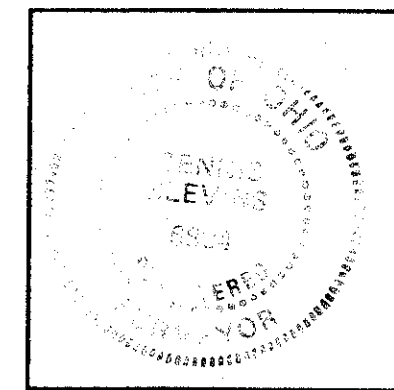
BUT-27-13.147

102
105

23-MAR-1998 14:05 ccasson  
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CONVENTIONAL SIGNS  
 County Line ---  
 Township Line ---  
 Section Line ---  
 Corporation Line ---  
 Fence Line (existing) --- (proposed) ---  
 Center Line ---  
 Trees, Stumps, (to be removed) ---  
 Utility Poles: Light, Telephone, Power ---  
 Limited Access (only) --- LA ---  
 Right of Way (only) --- RW ---  
 Limited Access & Right of Way --- LA/RW ---  
 Existing Right of Way ---  
 Property Line --- (in existing fence) ---  
 Railroad ---  
 Guardrail (existing) --- (proposed) ---

**PROPERTY MAP**  
**BUT - 27 - 13.147**  
**HANOVER TOWNSHIP**  
**BUTLER COUNTY, OHIO**  
**SECTION 17 & 20, TOWN 4, RANGE 2**



I HEREBY CERTIFY THAT THIS IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION

*Dennis Blevins* DATE 1-20-98  
 Dennis M Blevins PS  
 Ohio Registration No. 6804

SCALE IN METERS  
 0 10 20 40  
 RATIO= 1" = 800'

P.I.D. NO.  
 17820

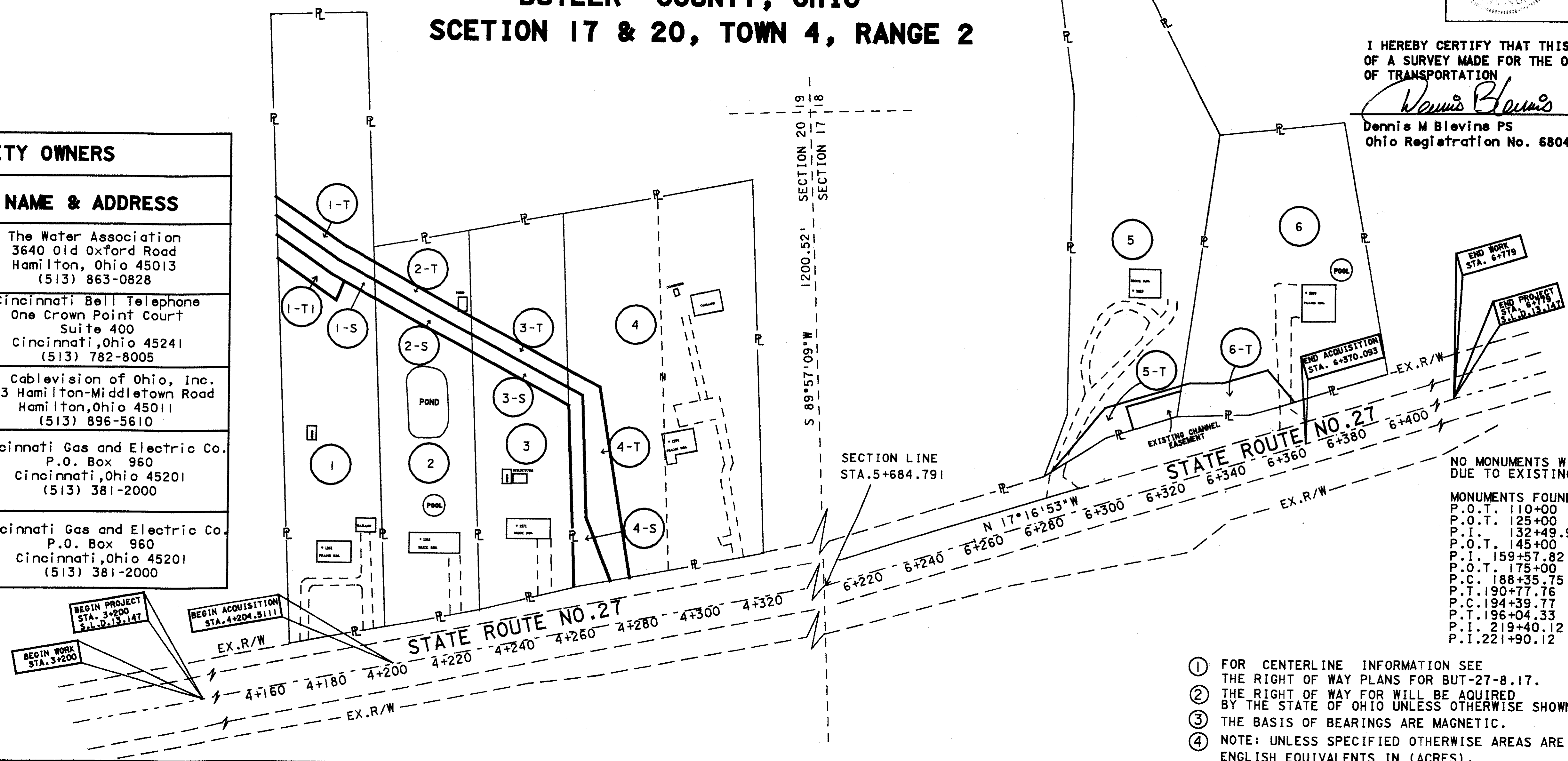
STATE PROJECT NO.  
 084290

**PROPERTY MAP**

**BUT-27-13.147**

103  
 105

UTILITY OWNERS	
TYPE	NAME & ADDRESS
Water lines	The Water Association 3640 Old Oxford Road Hamilton, Ohio 45013 (513) 863-0828
Telephone	Cincinnati Bell Telephone One Crown Point Court Suite 400 Cincinnati, Ohio 45241 (513) 782-8005
T.V. Cable	TCI Cablevision of Ohio, Inc. 4123 Hamilton-Middletown Road Hamilton, Ohio 45011 (513) 896-5610
Electric	Cincinnati Gas and Electric Co. P.O. Box 960 Cincinnati, Ohio 45201 (513) 381-2000
Gas	Cincinnati Gas and Electric Co. P.O. Box 960 Cincinnati, Ohio 45201 (513) 381-2000



NO MONUMENTS WILL BE SET FOR THIS PROJECT DUE TO EXISTING MONUMENTS BEING IN PLACE.

- MONUMENTS FOUND:
- P.O.T. 110+00
  - P.O.T. 125+00
  - P.I. 132+49.94
  - P.O.T. 145+00
  - P.I. 159+57.82
  - P.O.T. 175+00
  - P.C. 188+35.75
  - P.T. 190+77.76
  - P.C. 194+39.77
  - P.T. 196+04.33
  - P.I. 219+40.12
  - P.I. 221+90.12

- ① FOR CENTERLINE INFORMATION SEE THE RIGHT OF WAY PLANS FOR BUT-27-8.17.
- ② THE RIGHT OF WAY FOR WILL BE ACQUIRED BY THE STATE OF OHIO UNLESS OTHERWISE SHOWN.
- ③ THE BASIS OF BEARINGS ARE MAGNETIC.
- ④ NOTE: UNLESS SPECIFIED OTHERWISE AREAS ARE STATED IN HECTARES WITH ENGLISH EQUIVALENTS IN (ACRES).

TOTAL NUMBER OF:  
 3 OWNERSHIPS 0 OWNERSHIPS WITH STRUCTURES INVOLVED  
 0 TOTAL TAKES 0 OWNERSHIPS WITH "P" ITEMS

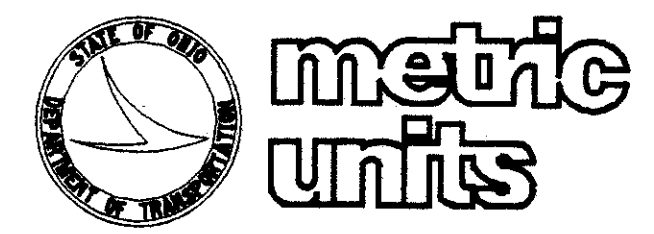
**SUMMARY OF ADDITIONAL RIGHT OF WAY**

1 HECTARE = 2.471 ACRES  
 NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

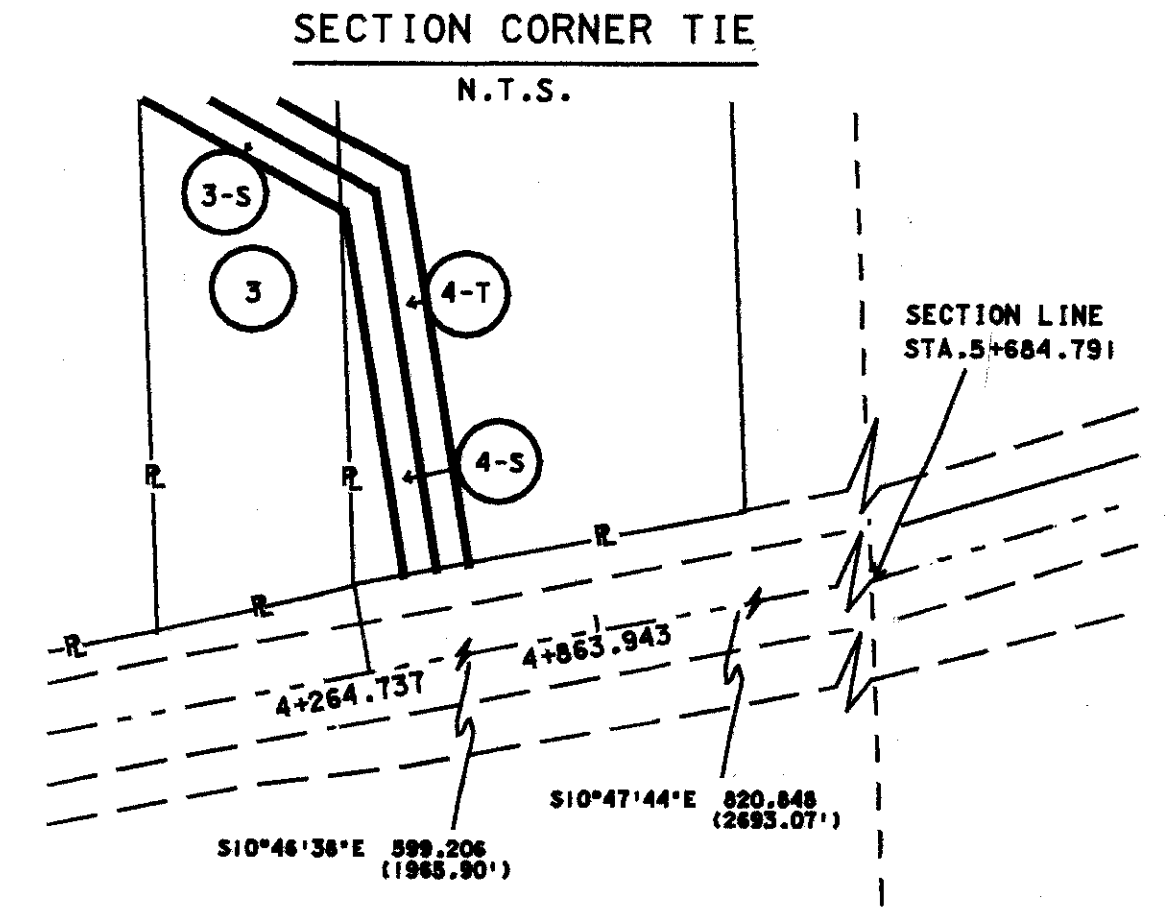
PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. in TAKE	NET TAKE	STRUC TURE	NET RESIDUE		TYPE	REMARKS AND PERSONALTY	AS ACQUIRED	
			BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
1 - S	Robert C. & Jo Ann Felts	2	895	345	B1020-072-000-05	0.6086 (1.504)	0.000 (0.000)	0.0191 (0.0472)	0.000 (0.000)	0.0191 (0.0472)	NO	0.5895 (1.4567)		100% STATE	EMBANKMENT STABILIZATION		
1 - T	"	2	"	"	"	0.6086 (1.504)	0.000 (0.000)	0.0199 (0.0491)	0.000 (0.000)	0.0199 (0.0491)	NO						
1 - TI	"	2	"	"	"	0.6086 (1.504)	0.000 (0.000)	0.0170 (0.0420)	0.000 (0.000)	0.0170 (0.0420)	NO						
2 - S	Richard A. & Laura Gabbard	2	6122	134	B1020-072-000-04	0.3675 (0.908)	0.000 (0.000)	0.0176 (0.0435)	0.000 (0.000)	0.0176 (0.0435)	NO	0.3499 (.8646)					
2 - T	"	2	"	"	"	0.3675 (0.908)	0.000 (0.000)	0.0176 (0.0435)	0.000 (0.000)	0.0176 (0.0435)	NO						
3 - S	Michael D. & Sherry A. Irwin	2	1567	201	B1020-072-000-03	0.3650 (0.902)	0.000 (0.000)	0.0176 (0.0435)	0.000 (0.000)	0.0176 (0.0435)	NO	0.3474 (.8584)					
3 - T	"	2	"	"	"	0.3650 (0.902)	0.000 (0.000)	0.0176 (0.0435)	0.000 (0.000)	0.0176 (0.0435)	NO						
4 - S	Dave A. & Charlotte A. Schlueter	2	1774	195	B1020-072-000-02	0.7256 (1.793)	0.000 (0.000)	0.0359 (0.0887)	0.000 (0.000)	0.0359 (0.0887)	NO	0.6897 (1.7043)					
4 - T	"	2	"	"	"	0.7256 (1.793)	0.000 (0.000)	0.0544 (0.1344)	0.000 (0.000)	0.0544 (0.1344)	NO						
5 - T	Betty Ann Gill	3	1397	403	B1020-065-000-07	0.6014 (1.486)	0.000 (0.000)	0.0183 (0.0452)	0.000 (0.000)	0.0183 (0.0452)	NO	0.5831 (1.4409)			Grading and Embankment		
6 - T	Donald N. Callahan	3	1600	484	B1020-065-000-08	0.4715 (1.165)	0.000 (0.000)	0.0374 (0.0924)	0.000 (0.000)	0.0374 (0.0924)	NO	0.4341 (1.0727)			Stabilization		

STRUCTURE KEY  
 □ RESIDENTIAL  
 ■ COMMERCIAL  
 ■ OUT-BUILDING

DATE OF COMPLETION		
REV.	DATE	DESCRIPTION
J.C.T.	1/20/98	Rev. Par. P-I, I-S, Add 1-T-1
J.C.T.	1/8/98	Rev. Parcels 4-T, 4-S



**BUT-27-13.147  
HANOVER TOWNSHIP  
BUTLER COUNTY, OHIO  
SEC.20, TOWN.4, RANGE2**



BEGIN ACQUISITION  
STA. 4+204.511  
S.L.D. 13J47

BEGIN WORK  
STA. 3+200  
S.L.D. 13J47

BEGIN PROJECT  
STA. 3+200  
S.L.D. 13J47

NOTE: 1) MONUMENTS USED TO ORIENT PROJECT  
CENTERLINE MONUMENTS FOUND  
STATION 4+038.581 0.00 LT.  
4+419.600 0.00 LT.  
4+863.943 0.00 LT.  
2) ALL DIMENSIONS UNLESS OTHERWISE  
SPECIFIED ARE IN METERS WITH ENGLISH  
EQUIVALENTS IN (FEET).

**BEARINGS & DISTANCES**

2 S 87°46'22" W	5.841 (19.16')
3 N 28°53'07" E	5.339 (17.52')
4 S 28°53'38" W	3.869 (12.69')

NAME	DATE	REV	DESCRIPTION
J.C.T.	1/20/02		Rev. Per 1-T, 1-S Add 1-T-1
J.C.T.	1/18/02		Rev. Per 4-T, 4-S

**RIGHT-OF-WAY DETAIL SHEET**

**BUT-27-13.147**

STATE PROJECT NO. 084290

P.I.D. NO. 17820

DATE CHECKED

SCALE IN METERS  
0 3 6 12  
RATIO=1" = 300 METERS

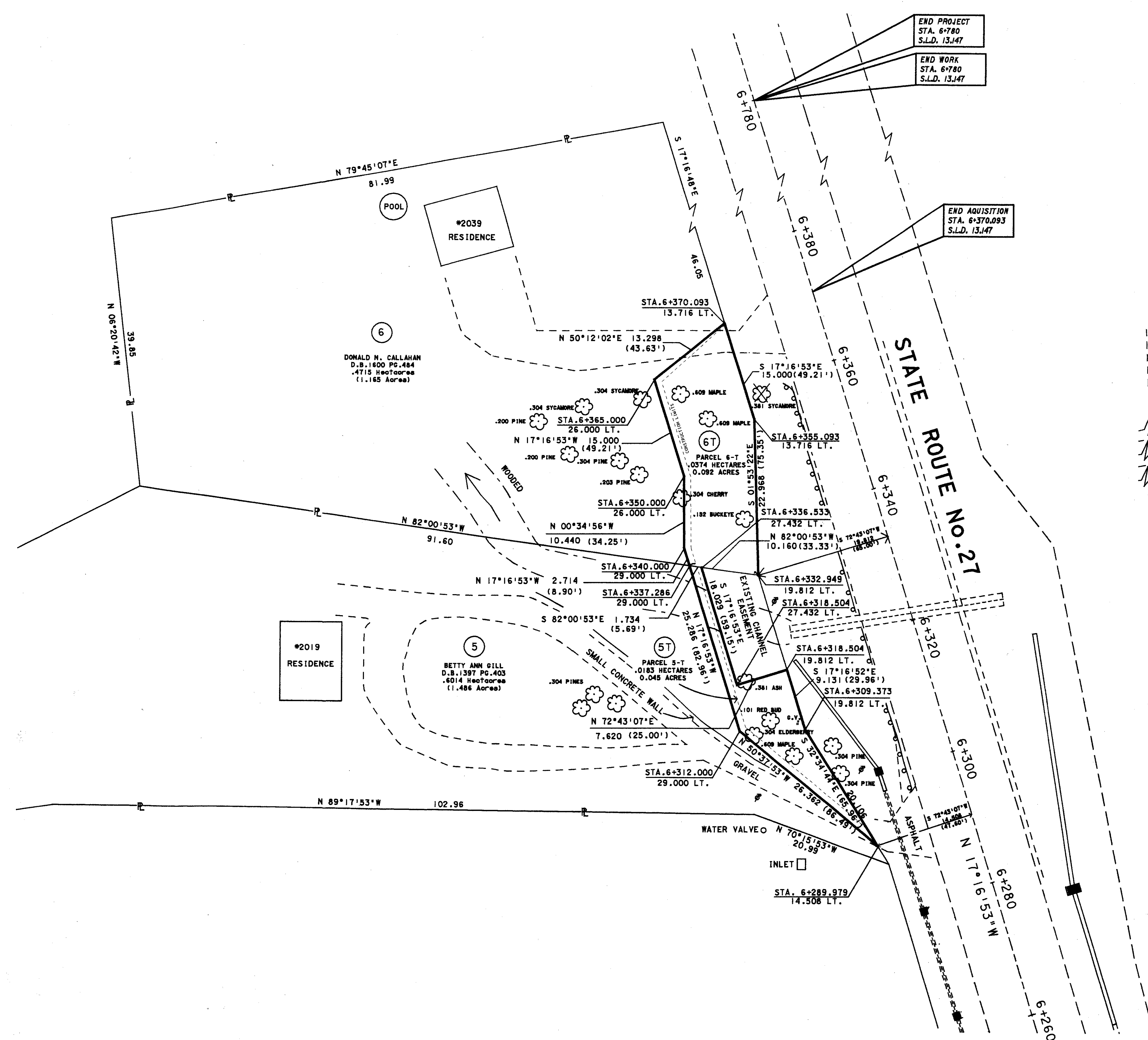
2 3

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105

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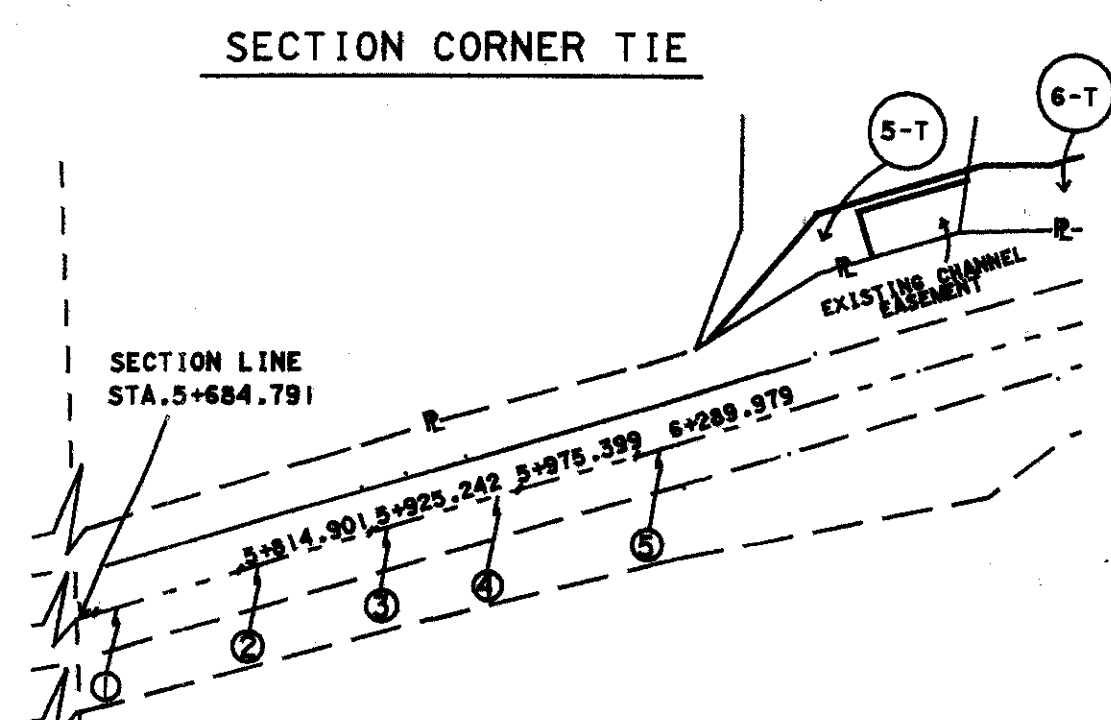
**BUT-27-13.483**  
**HANOVER TOWNSHIP**  
**BUTLER COUNTY, OHIO**  
**SEC.20, TOWN.4, RANGE2**



END PROJECT  
 STA. 6+780  
 S.L.D. 13.147

END WORK  
 STA. 6+780  
 S.L.D. 13.147

END ACQUISITION  
 STA. 6+370.093  
 S.L.D. 13.147



- ① N10°47'44"W, 56.346 (184.86')
- ② N13°12'56"W, 73.744 (241.94') CHORD
- ③ N16°36'08"W, 110.341 (362.01')
- ④ N16°27'31"W, 50.155 (164.85') CHORD
- ⑤ N 17°16'53"W, 314.580 (1032.07')

SCALE IN METERS  RATIO=1 : 300 METERS																				
DATE _____ CHECKED _____																				
P.I.D. NO. 17820																				
STATE PROJECT NO. 084290																				
RIGHT-OF-WAY DETAIL SHEET																				
BUT-27-13.147																				
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