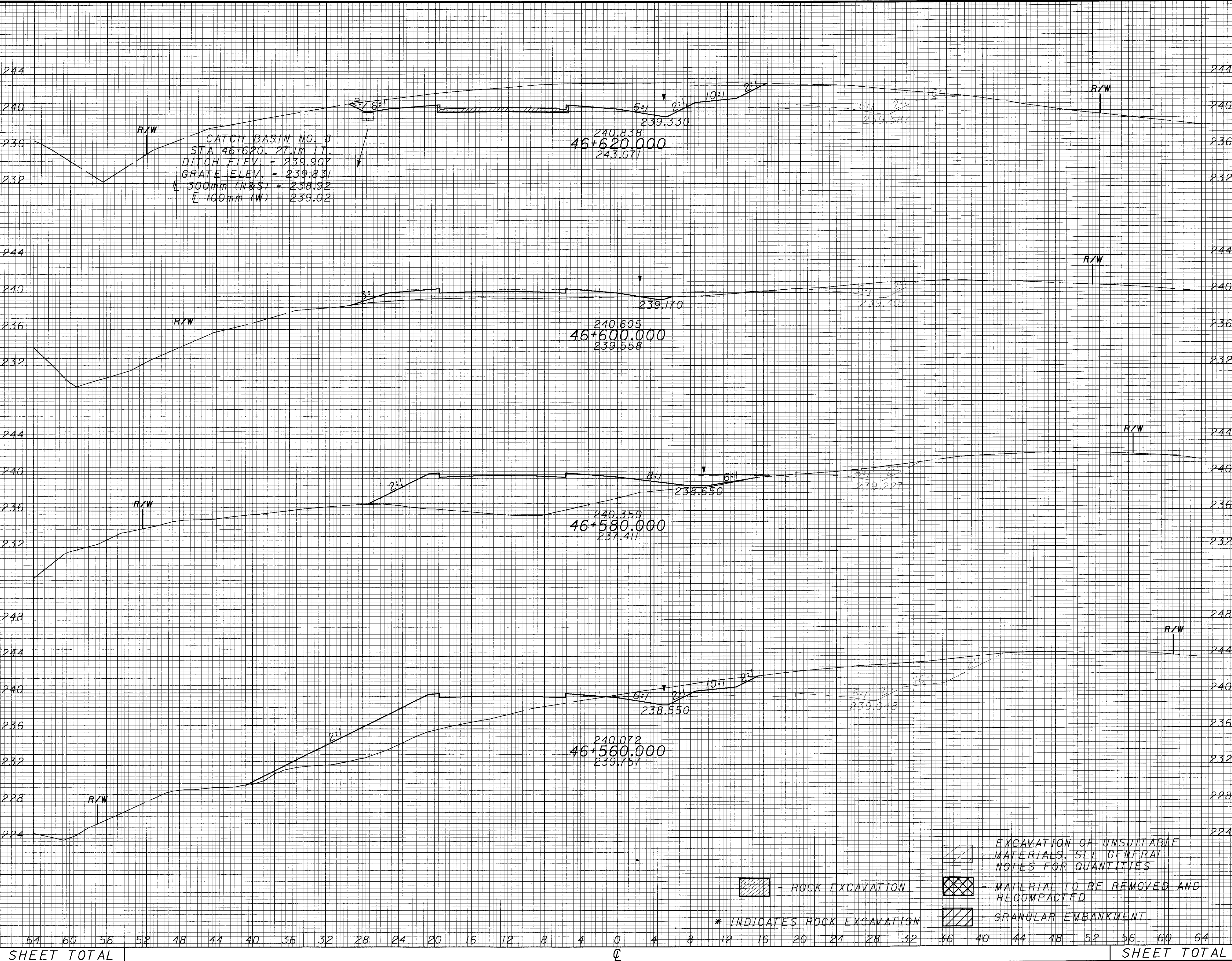


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SEEDING	
END WIDTH	SO. METERS
130	2788
64	60
56	52
48	44
40	36
32	28
24	20
16	12
8	4
0	0
4	8
8	12
12	16
16	20
20	24
24	28
28	32
32	36
36	40
40	44
44	48
48	52
52	56
56	60
60	64

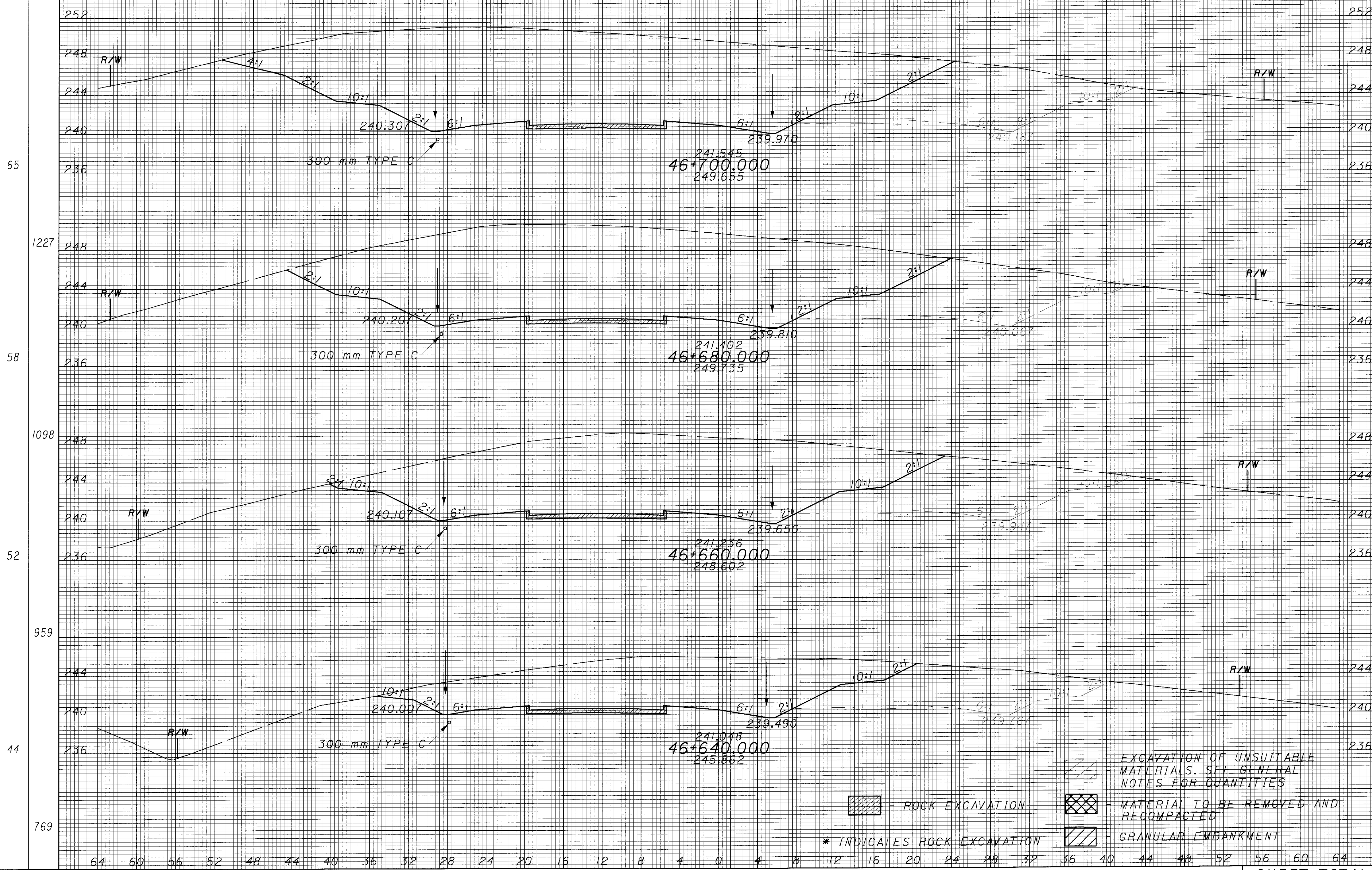


END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
94	0				
*6					
	951		217		
	*60				
1	22				
*0					
	7		1242		
0	102				
	160		1857		
16	83				
*0					
	1246		964		
	*40				
ROCK TOTAL	*100				
	2364		4280		

CROSS SECTIONS - US 33  
 STA. 46+560.000 TO STA. 46+620.000  
 ATH-33-40.981  
400  
949

SEEDING  
END WIDTH SO. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBO  
CHECKED  
TDW



END AREA	VOLUME	CALCULATED	BBO	CHECKED	TDW
CUT	FILL	CUT	FILL		
541	0				
*6					
10323	0				
*129					
491	0				
*6					
8659	0				
*129					
375	0				
*6					
5895	0				
*129					
215	0				
*6					
3091	0				
*129					
ROCK TOTAL					
*516					
27968	0				

CROSS SECTIONS - US 33  
STA. 46+640.000 TO STA. 46+700.000

ATH-33-40.981

401  
949

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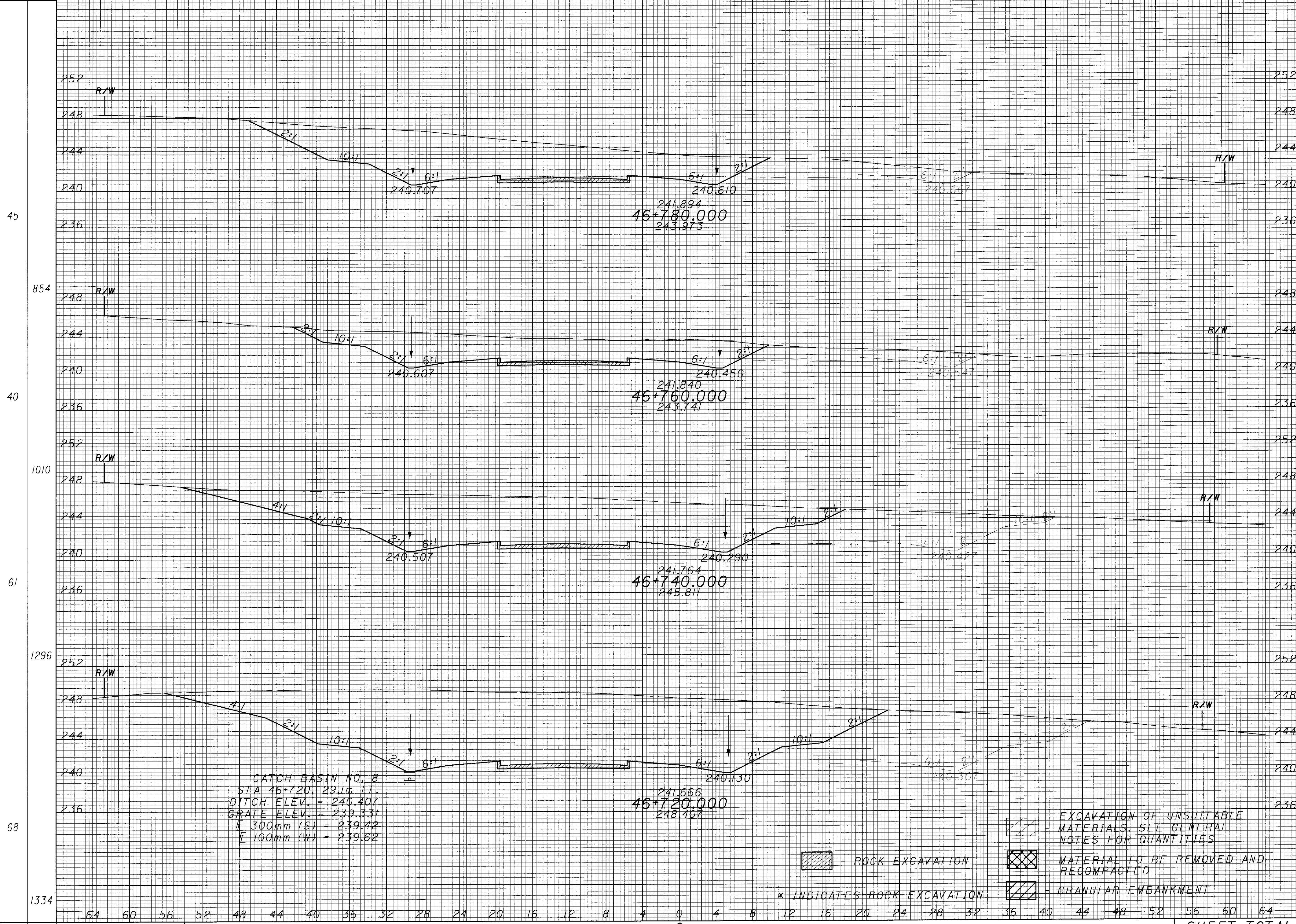
219 4053 SHEET TOTAL

SHEET TOTAL

CL

SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBD  
CHECKED  
TDW



END AREA	VOLUME	CALCULATED	BBD	CHECKED	TDW
CUT	FILL	CUT	FILL		
190	0	*6			
3097	0	*129			
120	0	*6			
3977	0	*129			
278	0	*6			
7334	0	*129			
456	0	*6			
9969	0	*129			
<b>ROCK TOTAL</b>		*516			
<b>SHEET TOTAL</b>		24377	0		

CROSS SECTIONS - US 33  
 STA. 46+720.000 TO STA. 46+780.000

ATH-33-40.981

402  
949

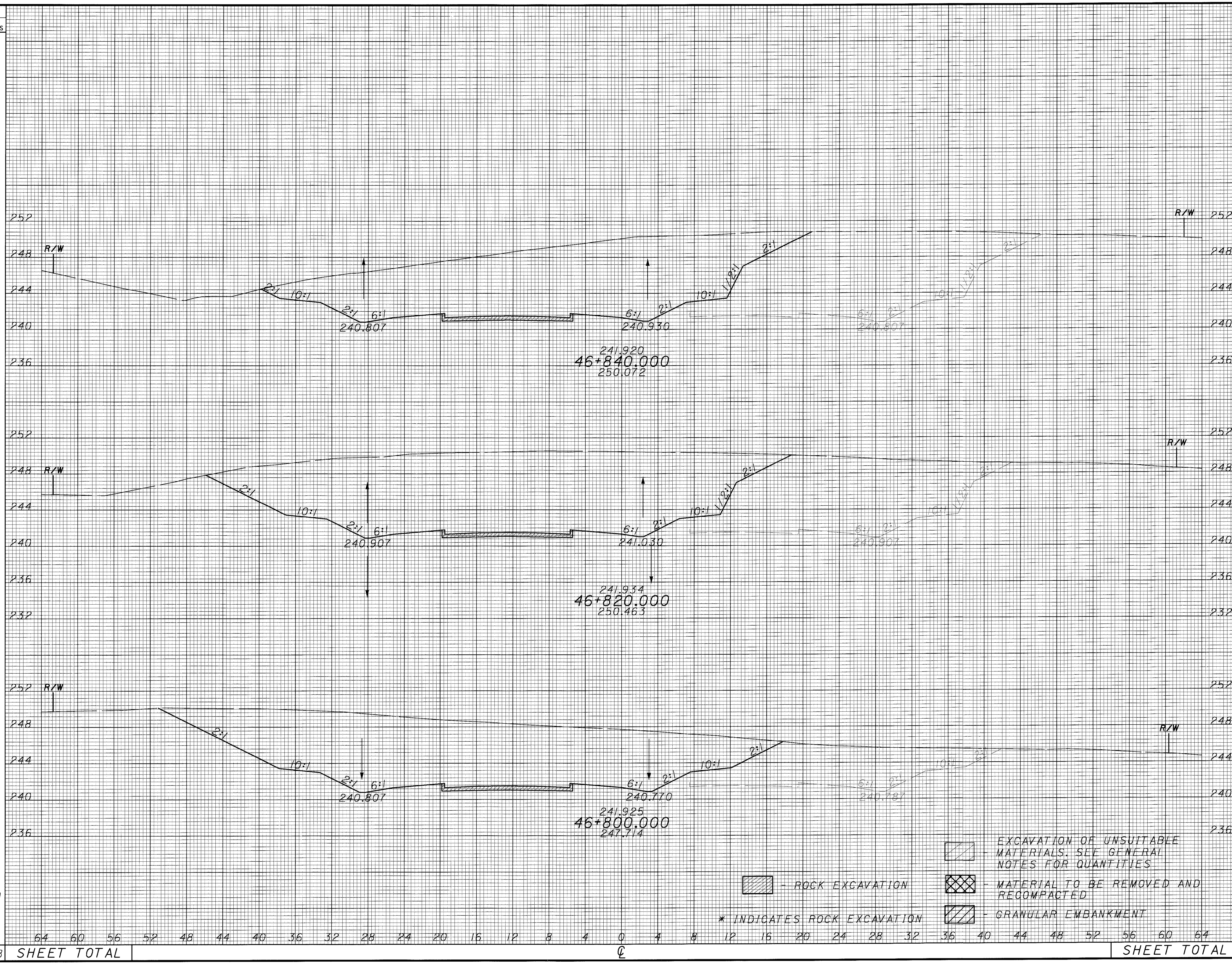
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214 4494 SHEET TOTAL

SHEET TOTAL

Q

SEEDING  
 END WIDTH SO. METERS  
 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64  
 159 3138 SHEET TOTAL



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
344	0			
*6				
		7883	0	
		*129		
445	0			
*6				
		8287	0	
		*129		
384	0			
*6				
		5737	0	
		*129		
ROCK TOTAL		*387		
		21907	0	

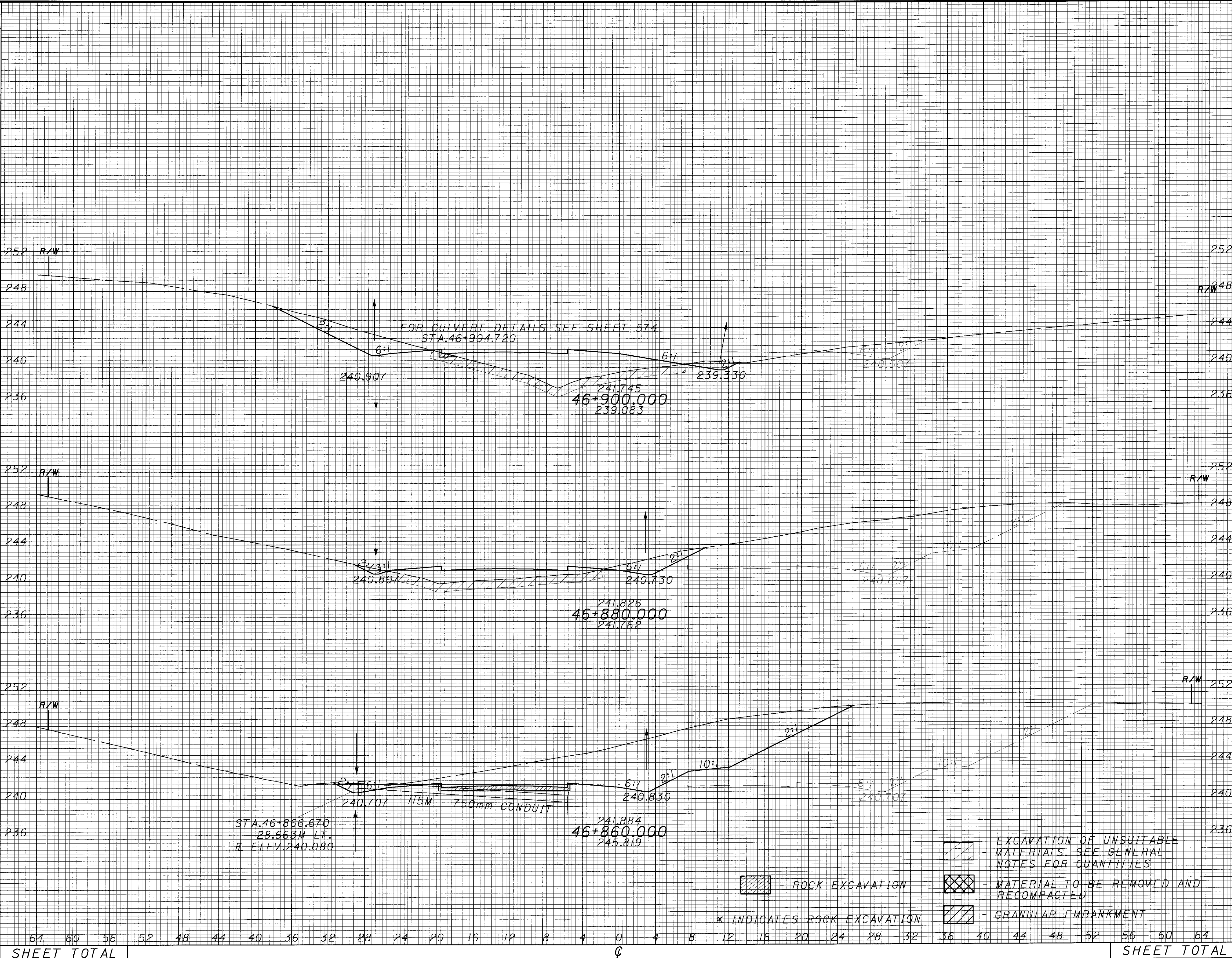
EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
 STA. 46+800.000 TO STA. 46+840.000  
 ATH-33-40.981  
 403  
 949

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08:06:53 PM  
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SEEDING  
END WIDTH SQ. METERS



- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

END AREA		VOLUME		CALCULATED	BBD	CHECKED	TDW
CUT	FILL	CUT	FILL				
		25	50				
*1							
				364	730		
*10							
		12	23				
*0							
				1676	229		
*60							
		156	0				
*6							
				4996	0		
*129							
<b>ROCK TOTAL</b>							
		*199					
<b>SHEET TOTAL</b>				7036	959		

CROSS SECTIONS - US 33  
STA. 46+860.000 TO STA. 46+900.000

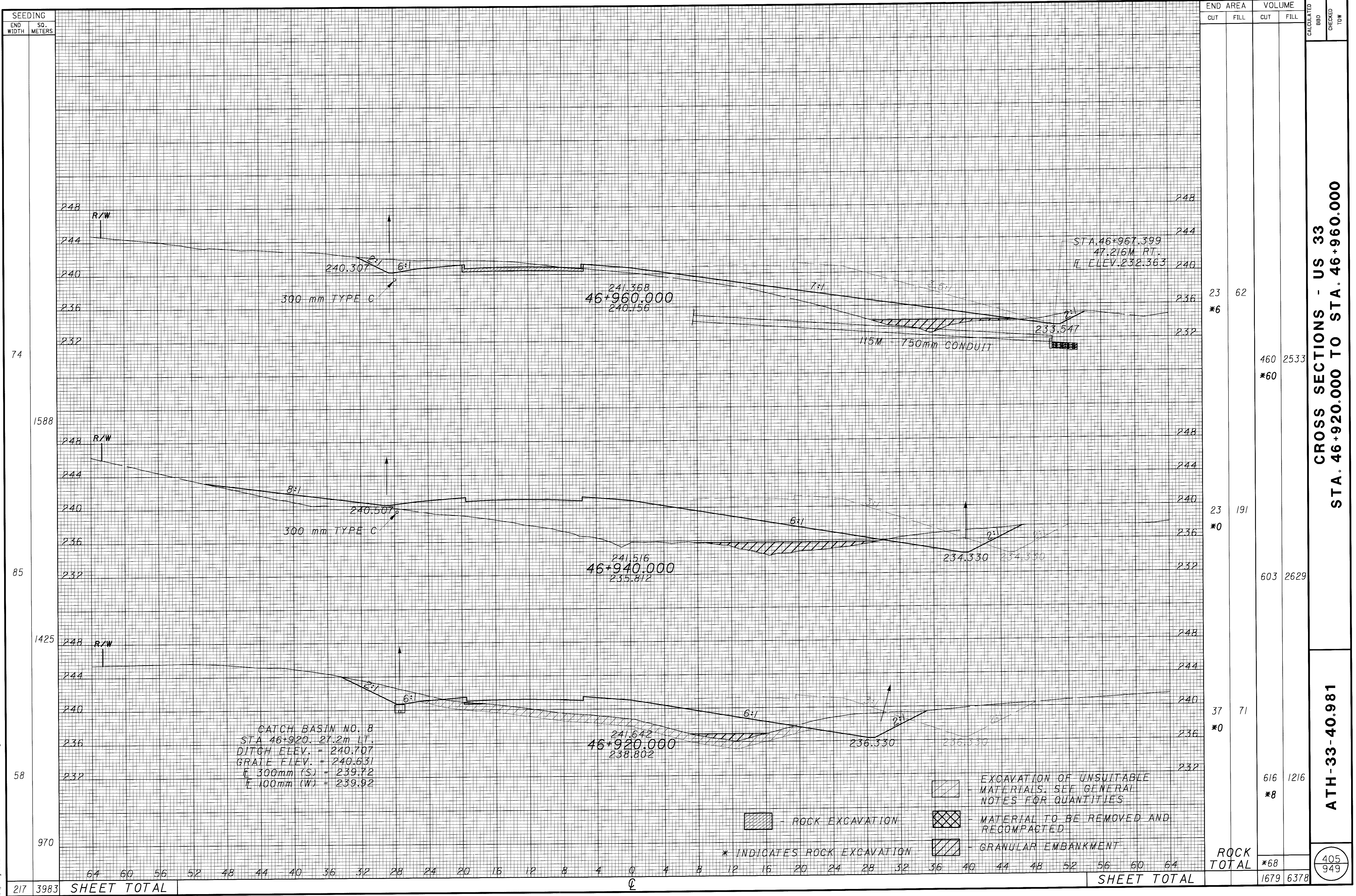
ATH-33-40.981

404  
949

III 2303 SHEET TOTAL

SHEET TOTAL

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SEEDING		END AREA		VOLUME		CALCULATED BBO	CHECKED TOW
END WIDTH	SO. METERS	CUT	FILL	CUT	FILL		
74							
1588							
85							
1425							
58							
970							
<b>SHEET TOTAL</b>							
217	3983						

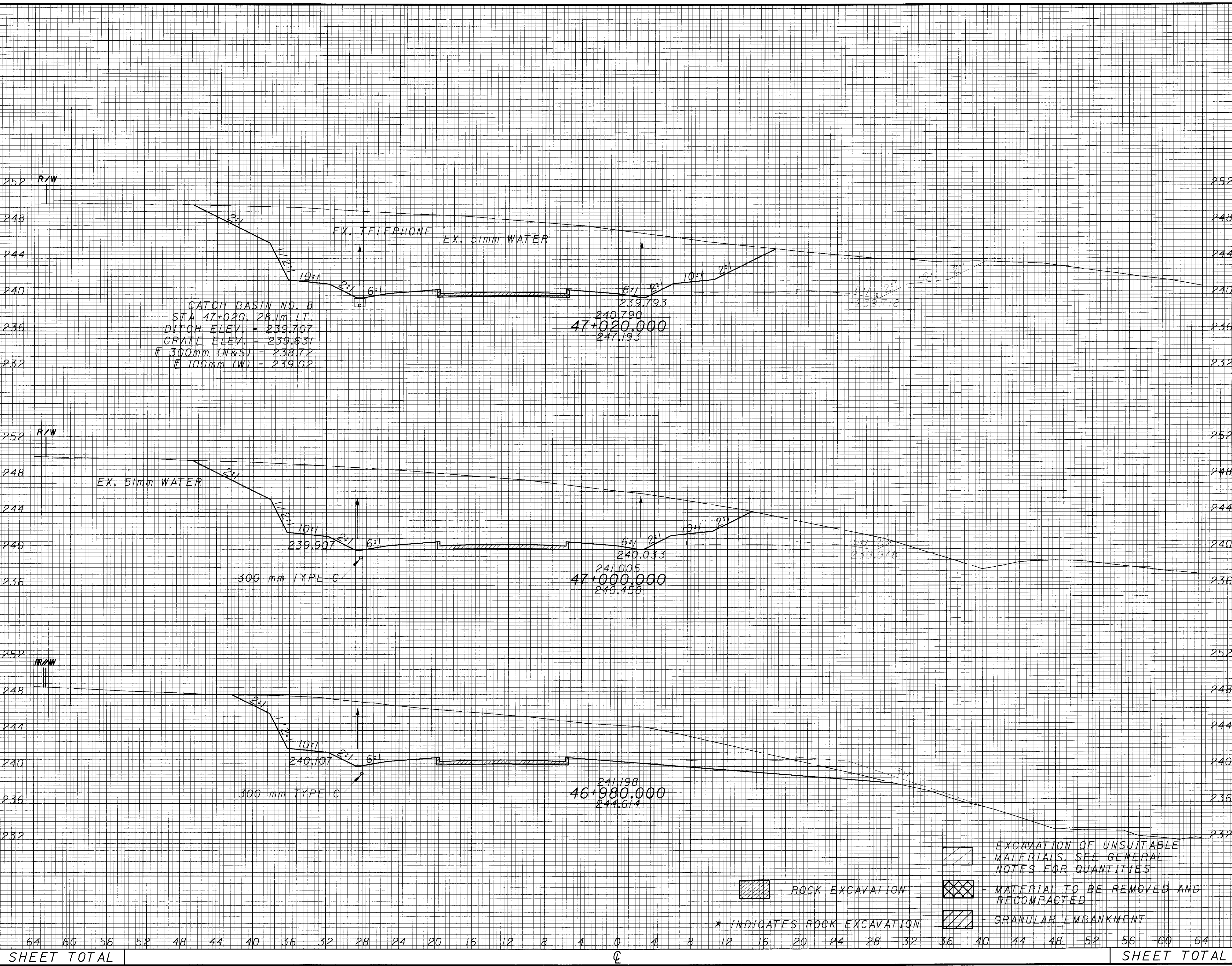
CROSS SECTIONS - US 33  
STA. 46+920.000 TO STA. 46+960.000

ATH-33-40.981

405  
949

**ROCK TOTAL** \*68  
1679 6378

SEEDING	
END WIDTH	SO. METERS
157	3365
64	60
56	52
48	44
40	36
32	28
24	20
16	12
8	4
0	0
4	8
12	16
20	24
28	32
36	40
44	48
52	56
60	64



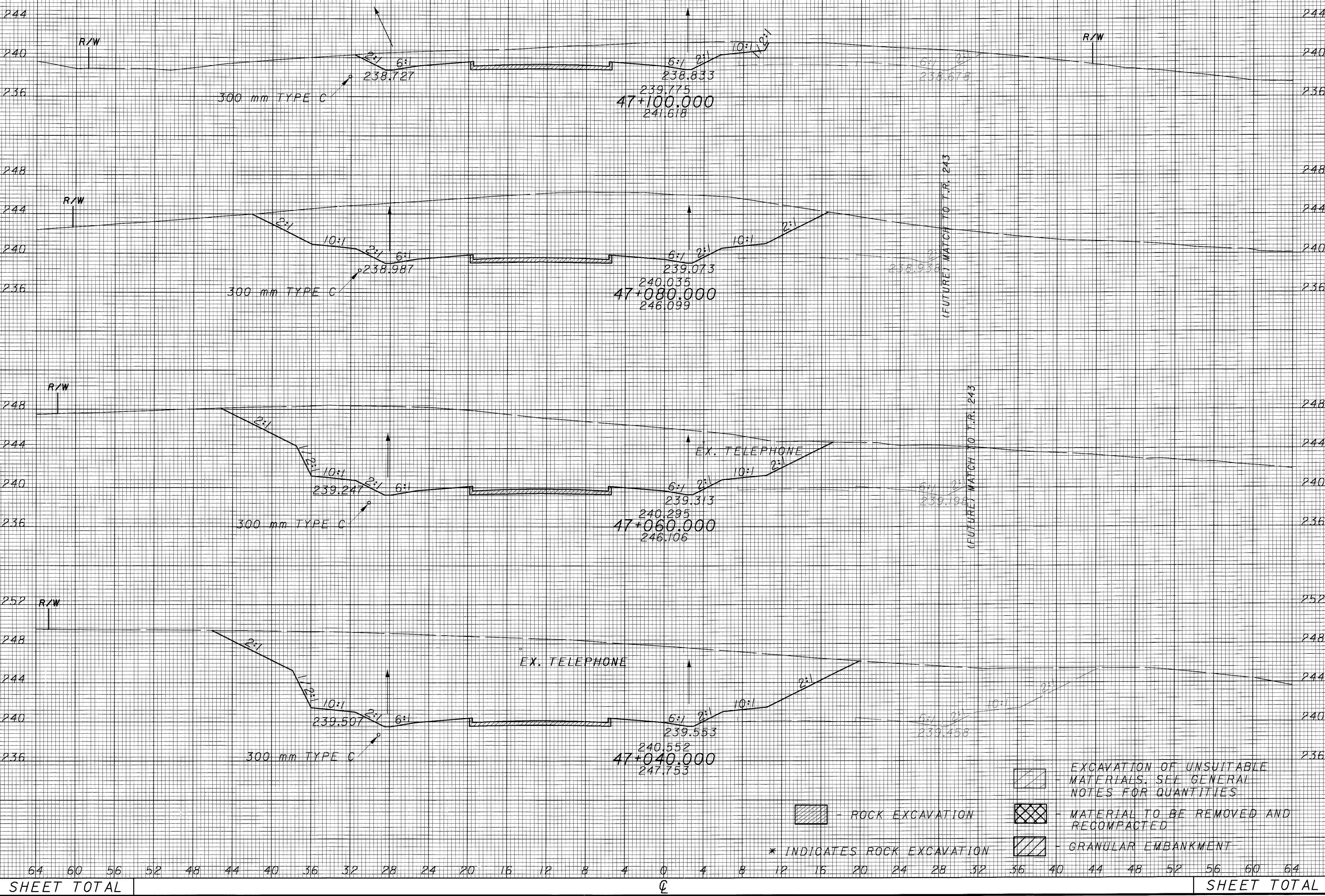
END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
400	0			
*6				
7550	0			
*129				
355	0			
*6				
6311	0			
*129				
276	0			
*6				
2983	619			
*127				
<b>ROCK TOTAL</b>	<b>*385</b>			
		<b>619</b>		
<b>SHEET TOTAL</b>				
		<b>16844</b>		

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- ROCK EXCAVATION

**CROSS SECTIONS - US 33**  
**STA. 46+980.000 TO STA. 47+020.000**  
**ATH-33-40.981**  
 406  
 949

02/07/2001  
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SEEDING	SQ. METERS	
	END WIDTH	END SQ. METERS
29	64	3797
761	60	
47	56	
969	52	
50	48	
1028	44	
53	40	
1039	36	
	32	
	28	
	24	
	20	
	16	
	12	
	8	
	4	
	0	
	4	
	8	
	12	
	16	
	20	
	24	
	28	
	32	
	36	
	40	
	44	
	48	
	52	
	56	
	60	
	64	



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
71	0			
*6				
			3682	0
			*129	
297	0			
*6				
			6603	0
			*129	
363	0			
*6				
			7904	0
			*129	
427	0			
*6				
			8266	0
			*129	
ROCK TOTAL			*516	
			26455	0

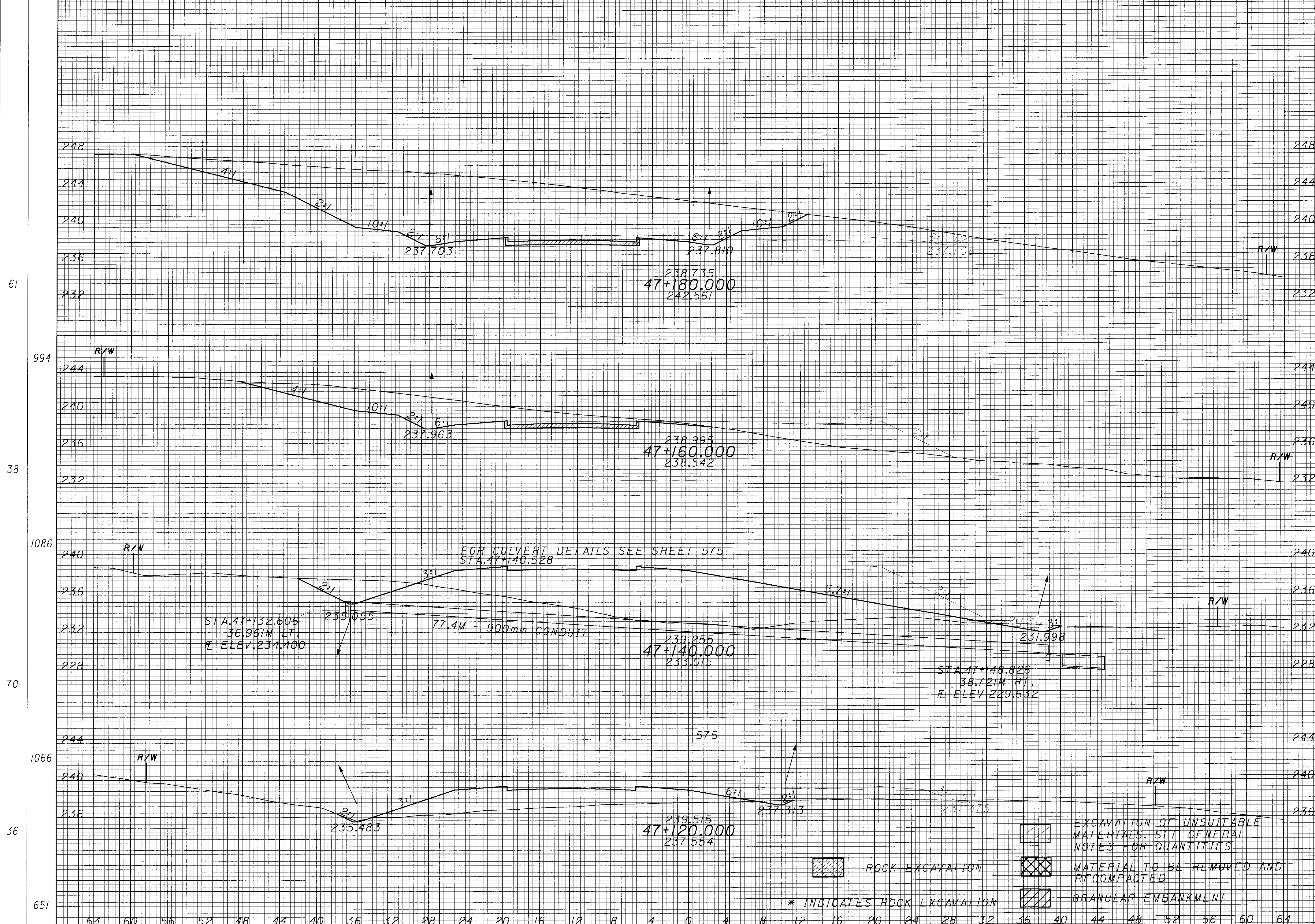
CROSS SECTIONS - US 33  
 STA. 47+040.000 TO STA. 47+100.000  
 ATH-33-40.981  
 407  
 949

02/07/2001  
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SEEDING  
END SQ.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64					
205																	3797	SHEET TOTAL										SHEET TOTAL									

312	0	*6	3862	0	*129	74	0	*6	944	1982	*60	20	198	*0	218	2648	1	67	*0	725	666	*60	ROCK TOTAL	*249	5749	5296
-----	---	----	------	---	------	----	---	----	-----	------	-----	----	-----	----	-----	------	---	----	----	-----	-----	-----	------------	------	------	------

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

CROSS SECTIONS - US 33  
 STA. 47+120.000 TO STA. 47+180.000

ATH-33-40.981

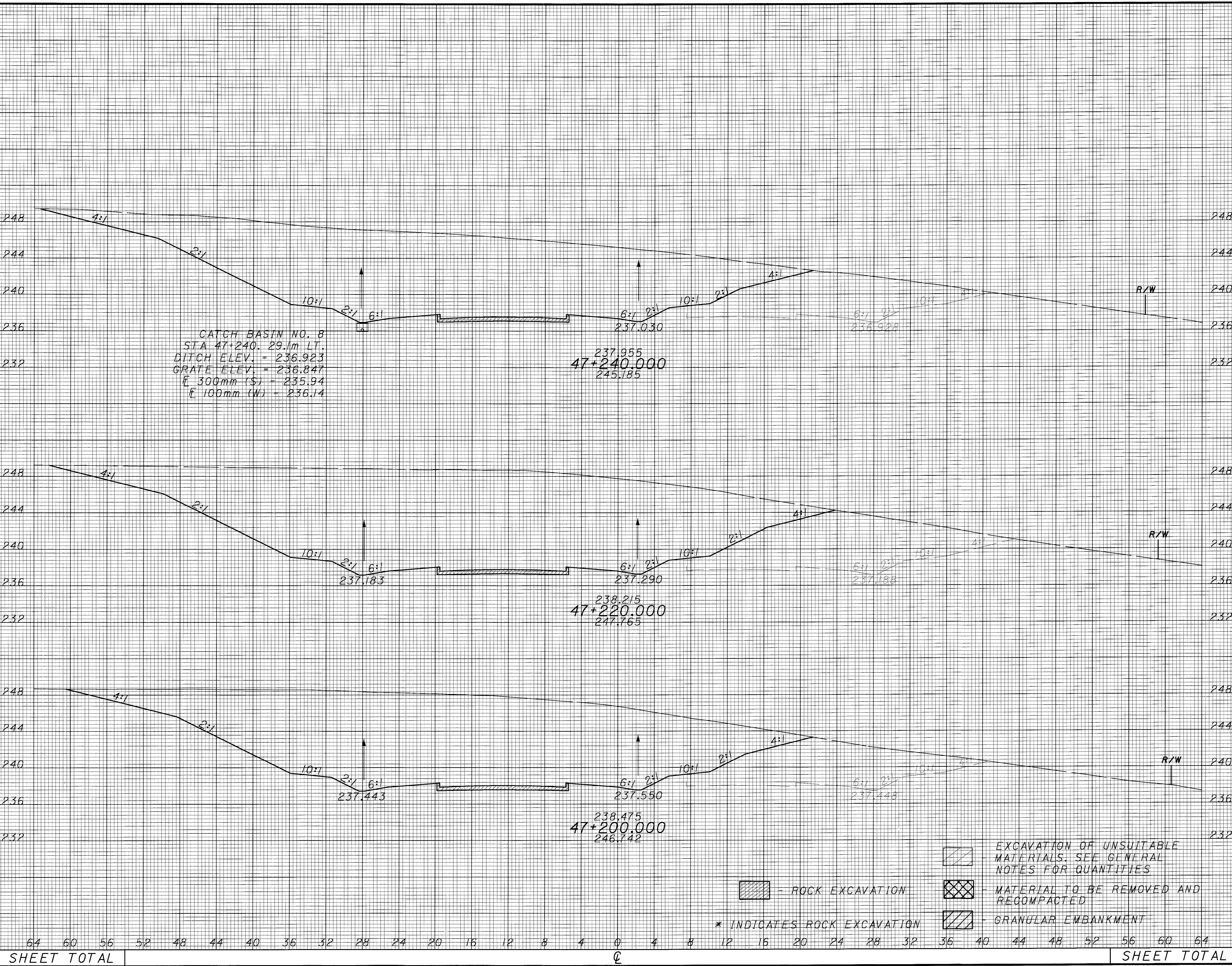
408  
949

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SEEDING  
END SO.  
WIDTH METERS

75  
1507  
76  
1476  
71  
1327

222 4310 SHEET TOTAL



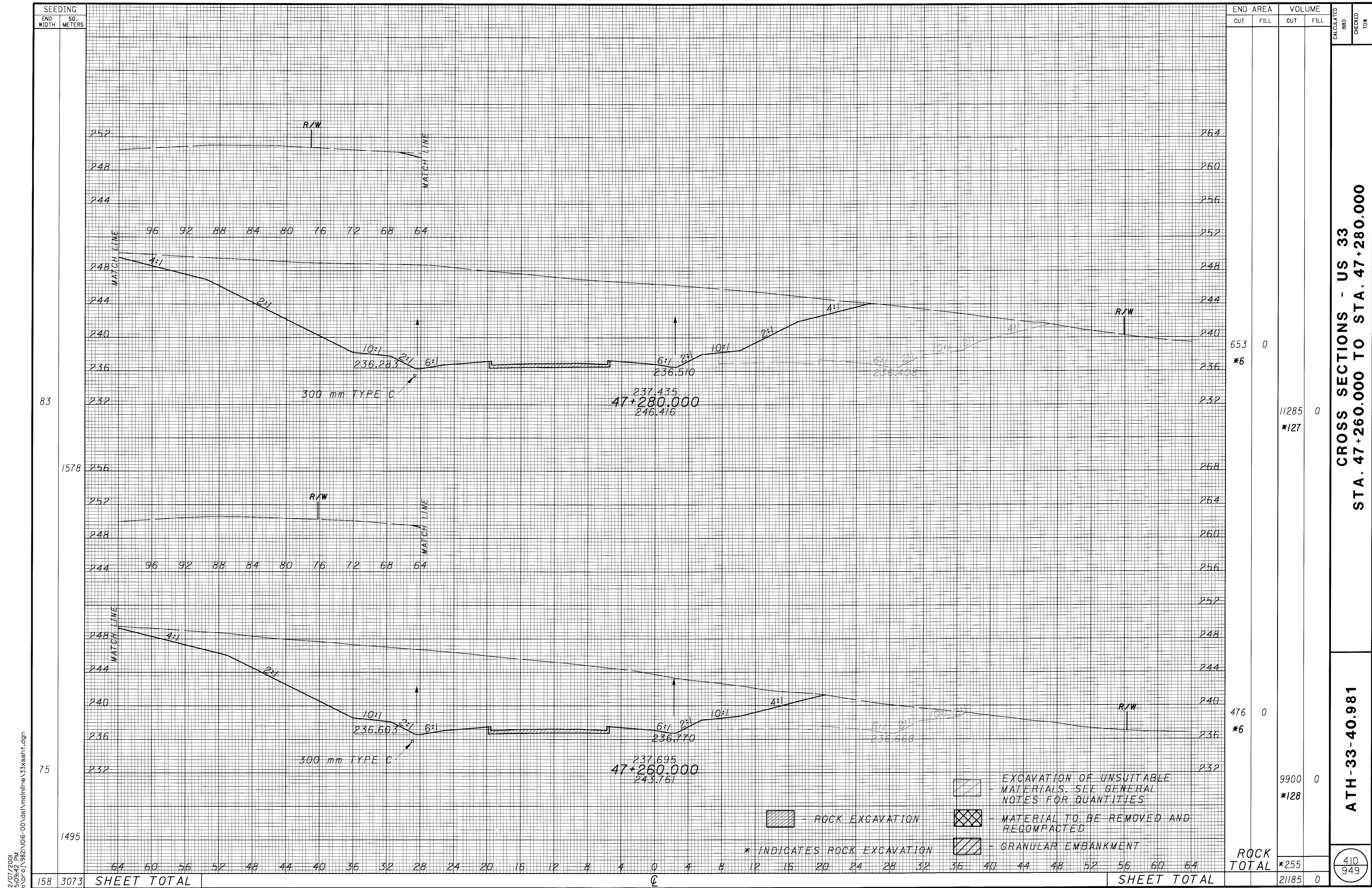
END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
514	0			
*6				
			11402	0
			*129	
626	0			
*6				
			11732	0
			*129	
547	0			
*6				
			8592	0
			*129	
ROCK TOTAL			*387	
			31726	0

CROSS SECTIONS - US 33  
STA. 47+200.000 TO STA. 47+240.000

ATH-33-40.981

409  
949

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SEEDING	END SO.	
	WIDTH	METERS
83	96	64
1578	96	64
75	64	64
1495	64	64
<b>158</b>	<b>3073</b>	<b>SHEET TOTAL</b>

END AREA	VOLUME		CALCULATED BBD	CHECKED TDW
	CUT	FILL		
653	0	0	11285	0
*6			*127	
476	0	0	9900	0
*6			*128	
<b>ROCK TOTAL</b>	<b>*255</b>	<b>0</b>	<b>410</b>	<b>949</b>
<b>SHEET TOTAL</b>	<b>21185</b>	<b>0</b>		

**CROSS SECTIONS - US 33**  
**STA. 47+260.000 TO STA. 47+280.000**

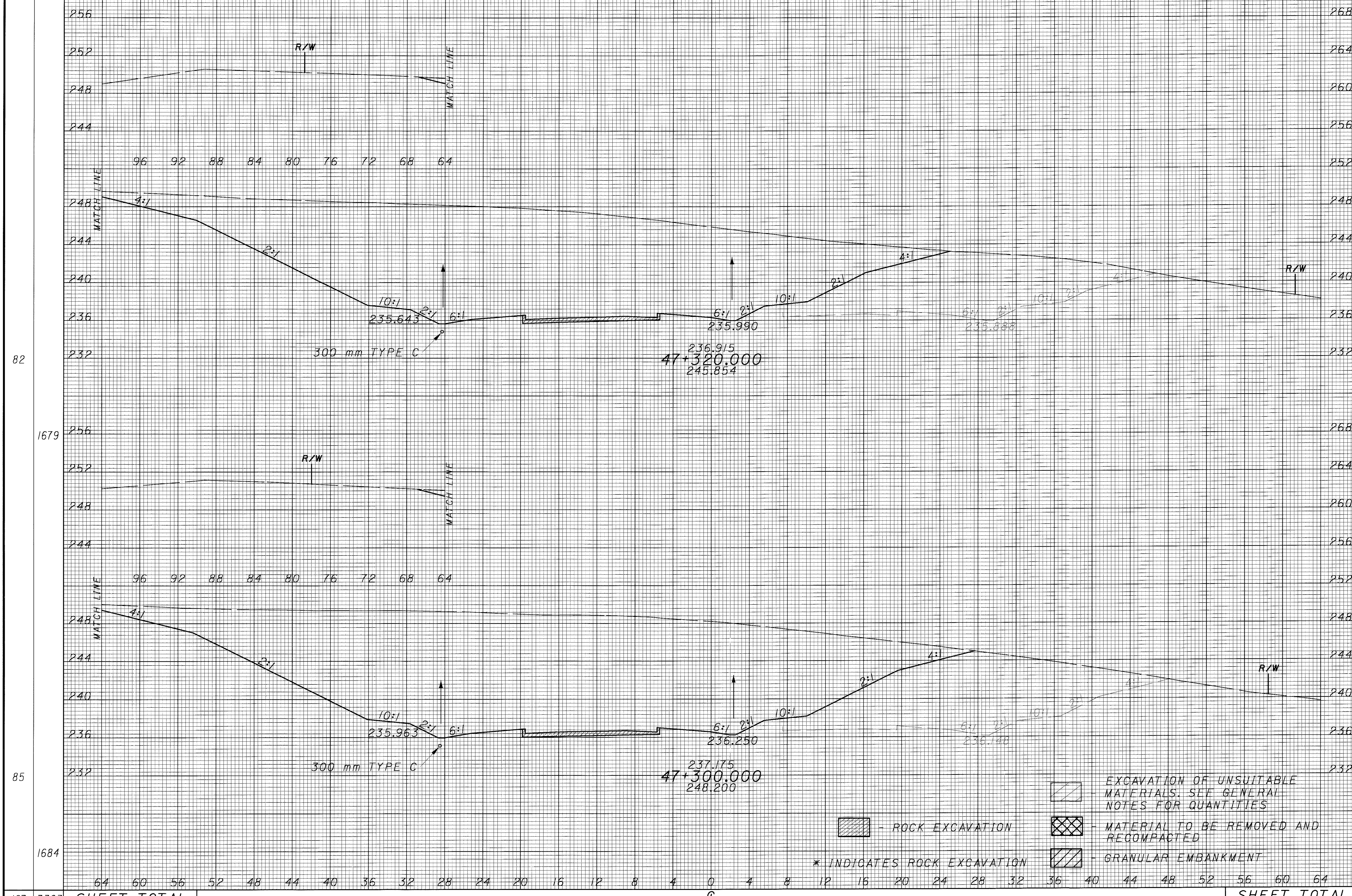
**ATH-33-40.981**

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- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
82	661	0	*6	0
1679	759	0	*6	0
85	14199	0	*125	0
1684	14112	0	*125	0
<b>SHEET TOTAL</b>	<b>ROCK TOTAL</b>		<b>*250</b>	<b>0</b>
			<b>28311</b>	<b>0</b>

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02:06:51  
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167 3363 SHEET TOTAL

Q

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

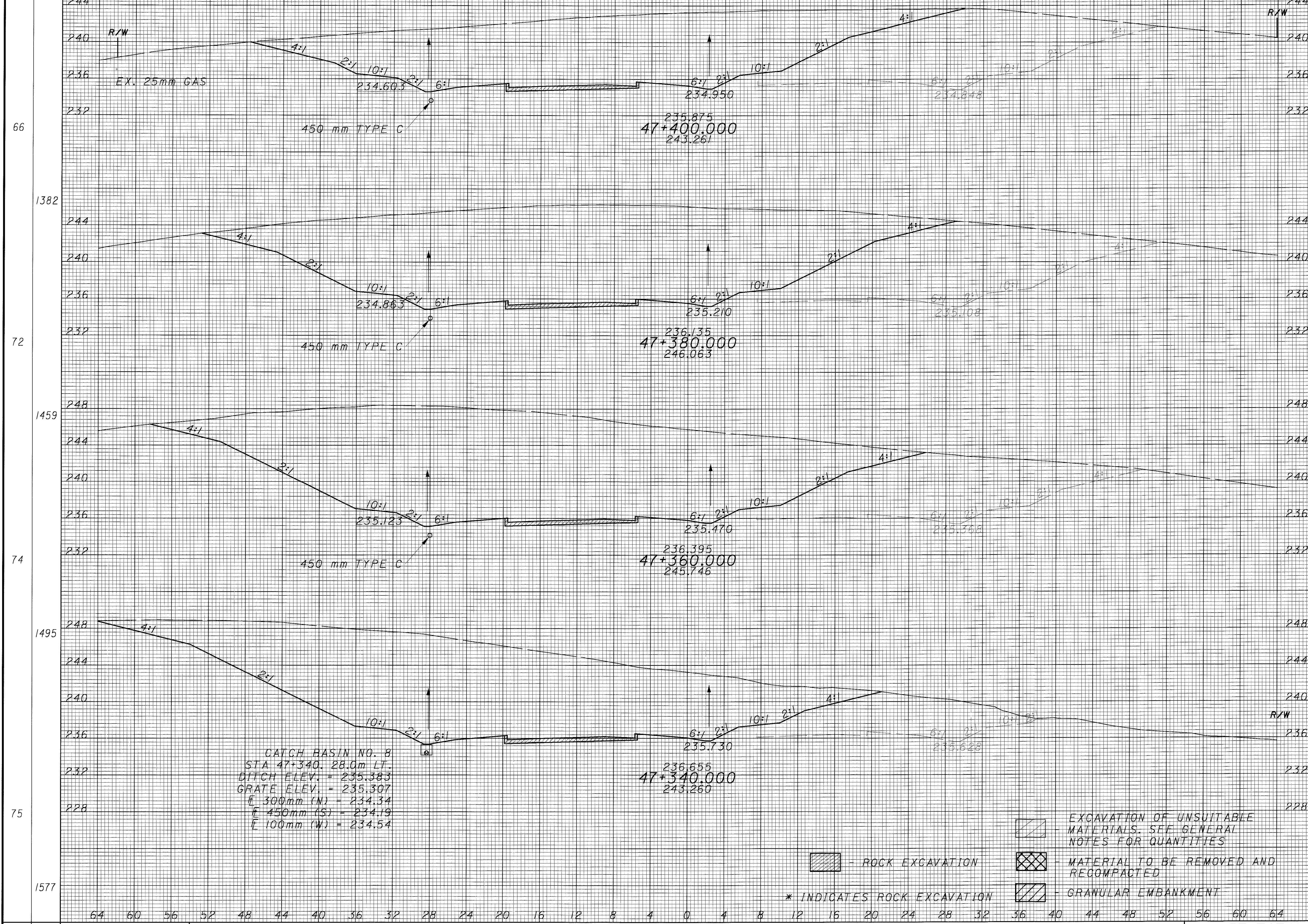
**CROSS SECTIONS - US 33**  
**STA. 47+300.000 TO STA. 47+320.000**

**ATH-33-40.981**

411  
949

SEEDING  
END SQ.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



END AREA	VOLUME	CALCULATED	BDD	CHECKED	TDW
CUT	FILL	CUT	FILL		
395	0				
*6					
	9917		0		
	*125				
596	0				
*6					
	12652		0		
	*125				
669	0				
*6					
	12279		0		
	*125				
559	0				
*6					
	12201		0		
	*125				
ROCK TOTAL					
*500					
47049	0				

**CROSS SECTIONS - US 33**  
**STA. 47+340.000 TO STA. 47+400.000**

**ATH-33-40.981**

412  
 949

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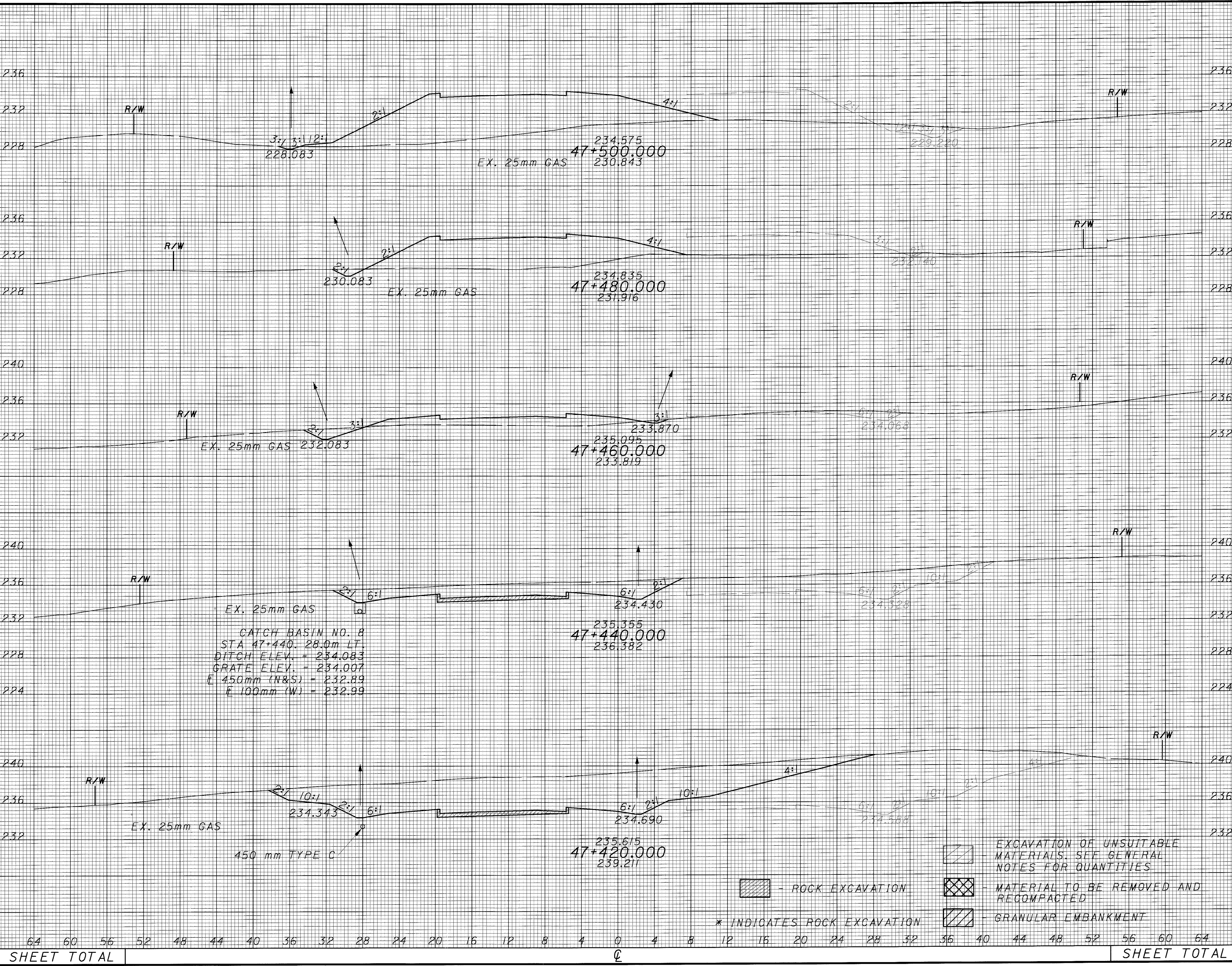
287 5913 SHEET TOTAL

SHEET TOTAL

Q

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SEEDING	END SQ.	
	WIDTH	METERS
	64	60
	56	52
	48	44
	40	36
	32	28
	24	20
	16	12
	8	4
	0	0
	4	8
	12	16
	20	24
	28	32
	36	40
	44	48
	52	56
	60	64
169	3694	



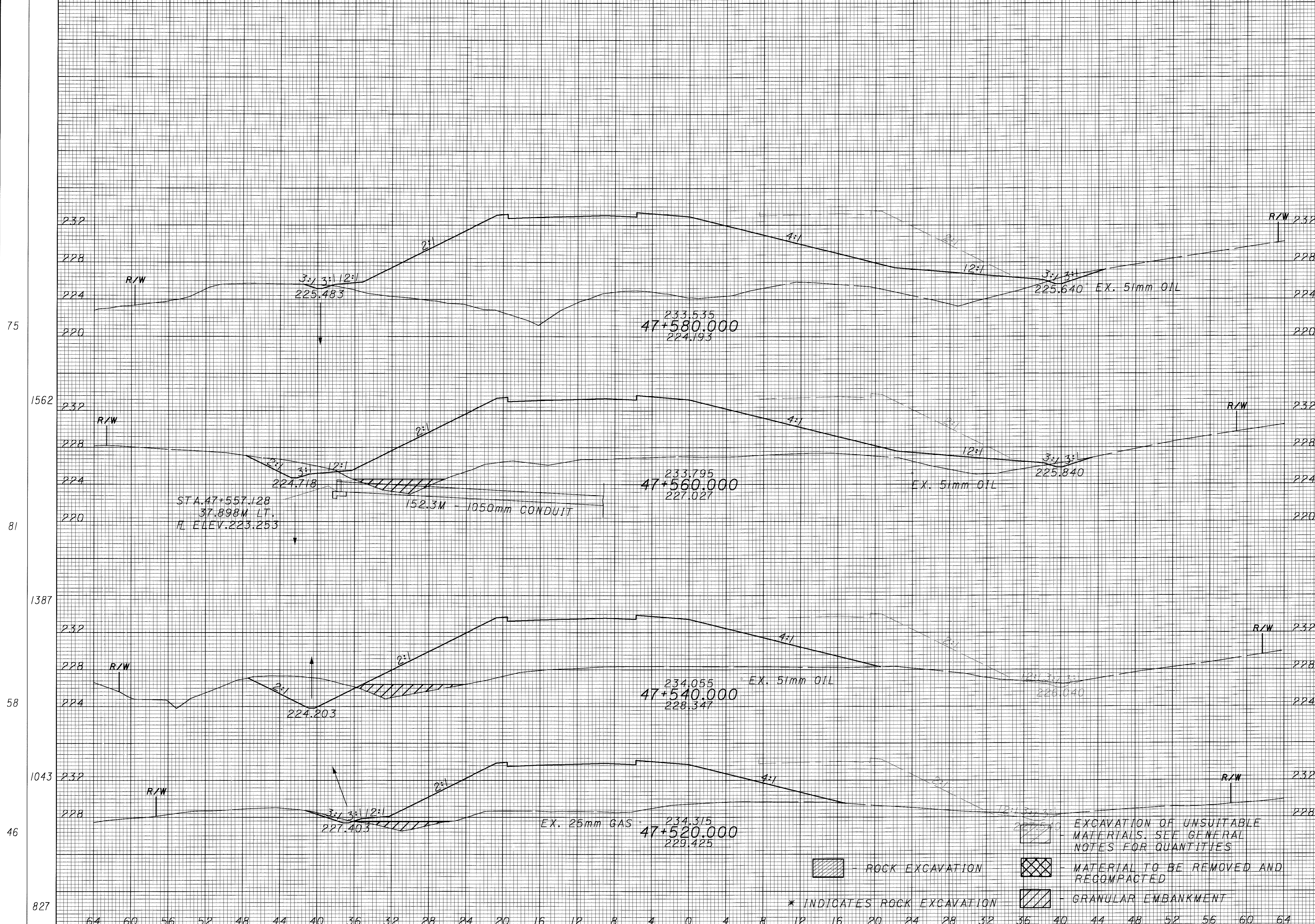
END AREA	VOLUME		CALCULATED	BDD	CHECKED	TDW
	CUT	FILL				
0	138					
20		2248				
62		1122				
5	25					
*0						
518		250				
*60						
47	0					
*6						
2365		0				
*125						
189	0					
*6						
5848		0				
*125						
<b>ROCK TOTAL</b>	<b>*310</b>					
<b>SHEET TOTAL</b>		<b>12433</b>	<b>3620</b>			

**ATH-33-40.981**  
**CROSS SECTIONS - US 33**  
**STA. 47+420.000 TO STA. 47+500.000**

413  
 949

SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBD  
CHECKED  
TDW



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
47+580.000	3	428	135	7360
47+560.000	10	308	319	5336
47+540.000	22	226	227	4063
47+520.000	1	180	16	3180
<b>ROCK TOTAL</b>				
<b>SHEET TOTAL</b>			697	19939

ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
STA. 47+520.000 TO STA. 47+580.000

ATH-33-40.981

414  
949

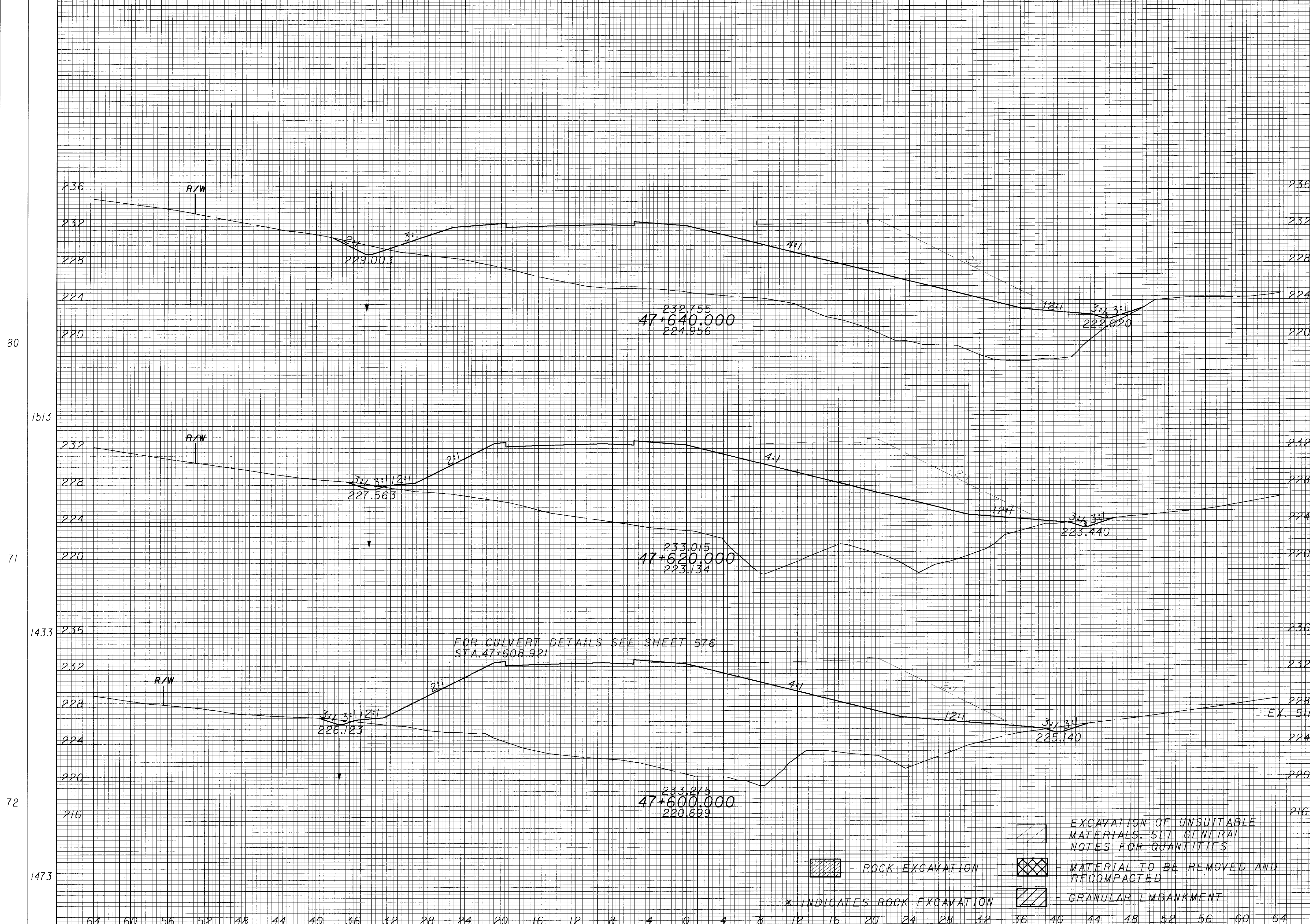
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260 4819 SHEET TOTAL

SHEET TOTAL

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
3	425
3	465
2	496
56	9246
ROCK TOTAL	
170	27769

CROSS SECTIONS - US 33  
STA. 47+600.000 TO STA. 47+640.000

ATH-33-40.981

415  
949

FOR CULVERT DETAILS SEE SHEET 576  
STA. 47+608.921

EX. 51mm OIL

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

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223 4419 SHEET TOTAL

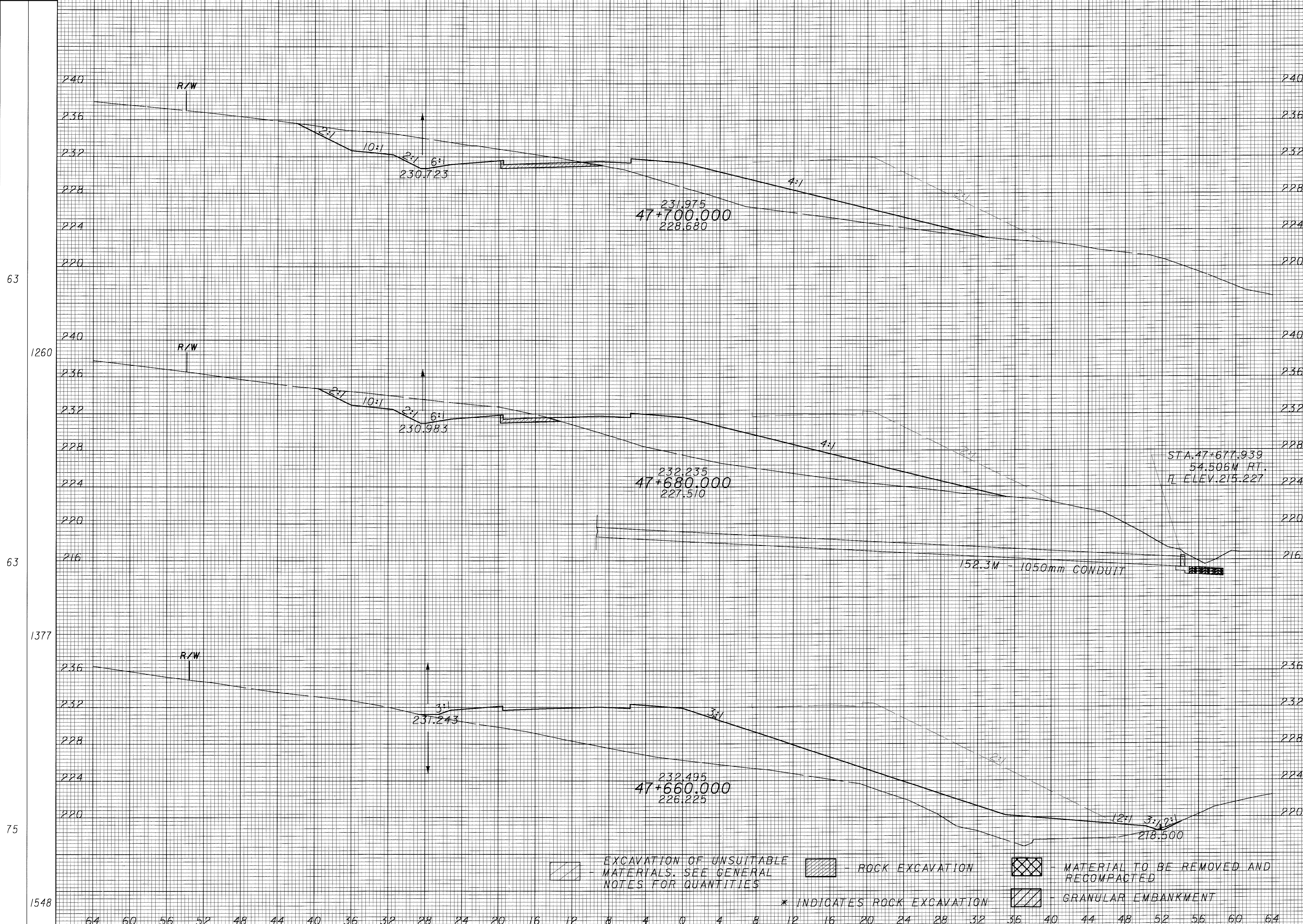
SHEET TOTAL

Q



SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
47+700.000	52	75		
*5				
47+680.000	33	117	846	1929
*72				
47+660.000	0	228	333	3455
*30				
ROCK TOTAL				
*102				
SHEET TOTAL	1214	11917		

CROSS SECTIONS - US 33  
STA. 47+660.000 TO STA. 47+700.000

ATH-33-40.981

416  
949

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201 4185

SHEET TOTAL

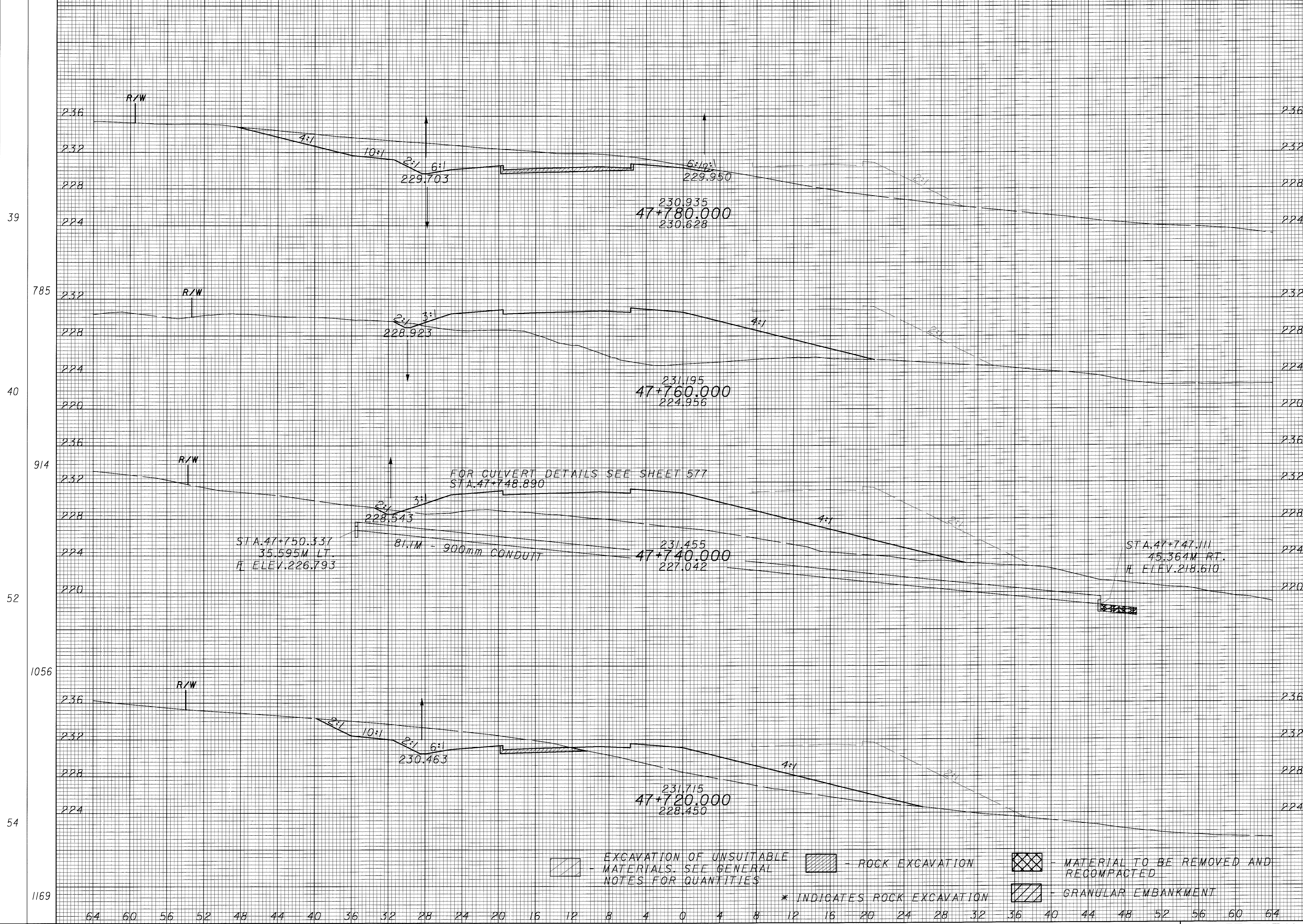
Q

SHEET TOTAL

1214 11917

SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
39	78	0	*6	
785	1	150	*0	
40	16	2900		
914	1	140	*0	
52	408	1983	*40	
1056	40	58	*4	
54	916	1338	*84	
1169	ROCK TOTAL		*184	
185	3924	SHEET TOTAL	2130	7721

[Hatched Box] - EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 [Cross-hatched Box] - ROCK EXCAVATION  
 [Diagonal Lines] - MATERIAL TO BE REMOVED AND RECOMPACTED  
 [Stippled Box] - GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
 STA. 47+720.000 TO STA. 47+780.000

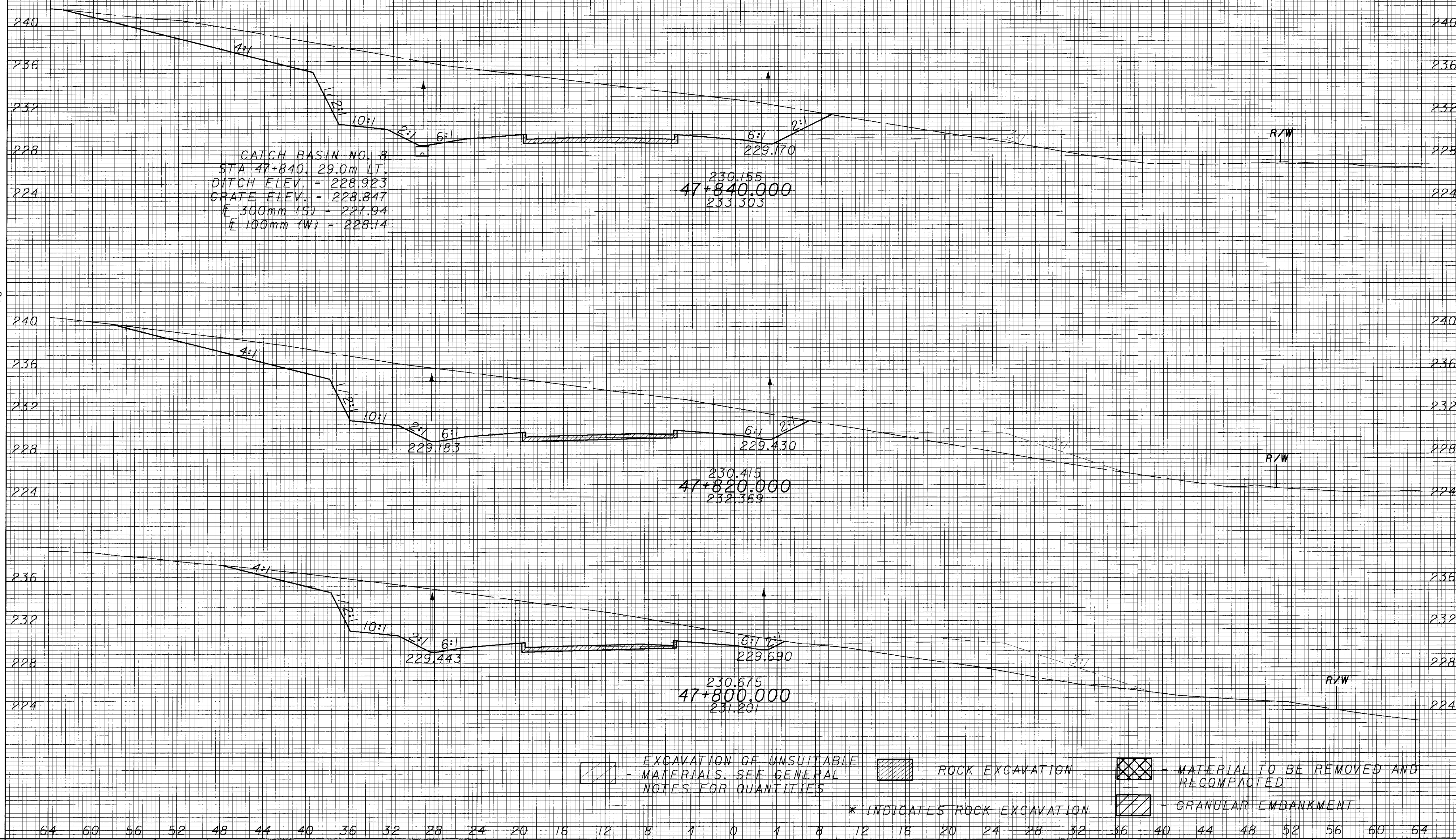
ATH-33-40.981

417  
949

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02/07/2001  
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SEEDING	END SO.	
	WIDTH	METERS
	146	2740
	57	
	1082	
	51	
	889	
	38	
	769	
<b>SHEET TOTAL</b>		



GAUGE BASIN NO. 8  
 STA 47+840. 29.0m LT.  
 DITCH ELEV. = 228.923  
 GRATE ELEV. = 228.847  
 E 300mm (S) = 227.94  
 E 100mm (W) = 228.14

230.155  
 47+840.000  
 229.170  
 233.303

230.415  
 47+820.000  
 229.183  
 229.430  
 232.369

230.675  
 47+800.000  
 229.443  
 229.690  
 231.201

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
285	0			
*7				
	5047	0		
	*129			
220	0			
*6				
	3693	0		
	*127			
149	0			
*6				
	2277	0		
	*125			
<b>ROCK TOTAL</b>				
	*381			
<b>SHEET TOTAL</b>				
	11017	0		

CROSS SECTIONS - US 33  
 STA. 47+800.000 TO STA. 47+840.000

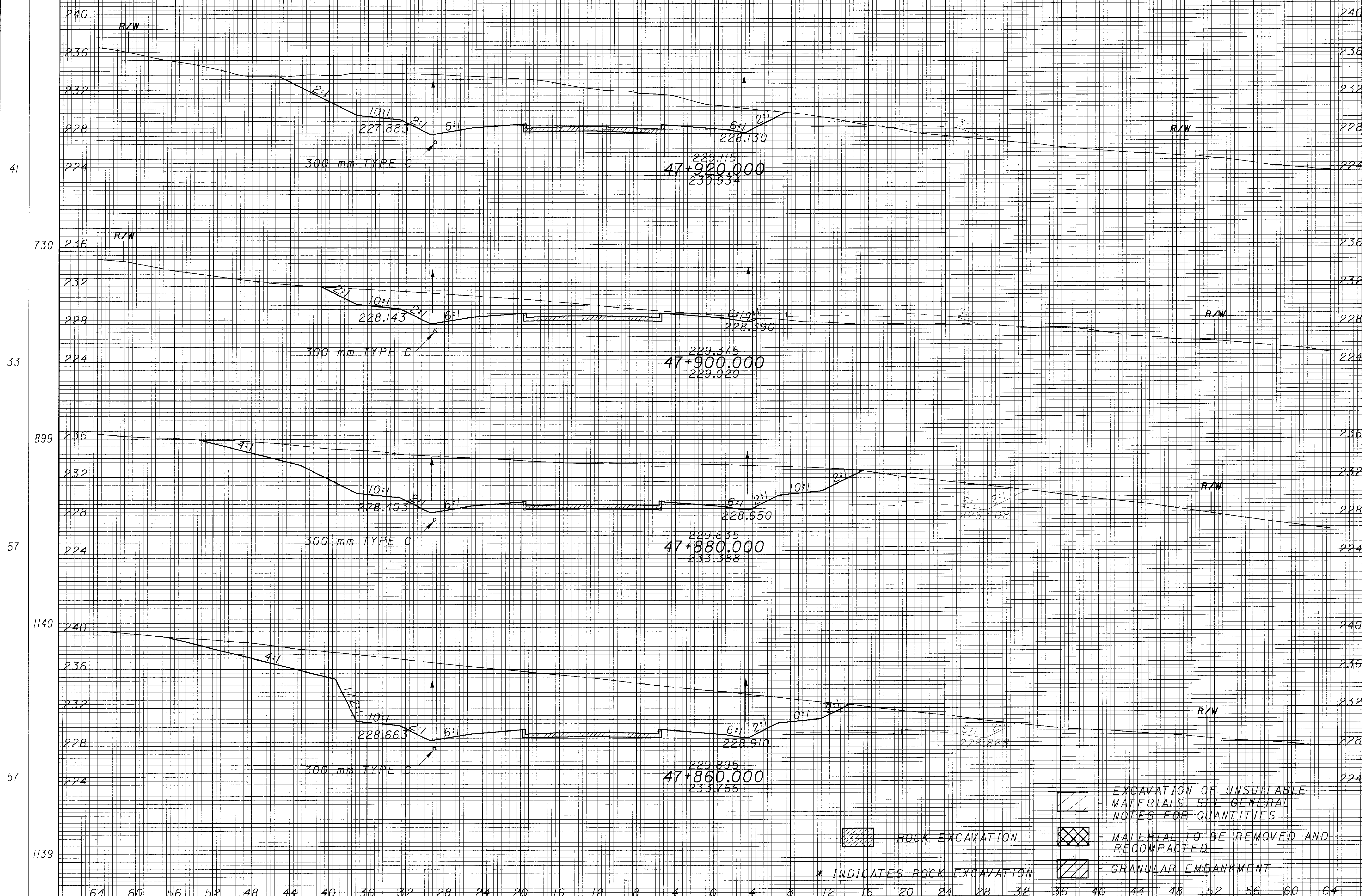
ATH-33-40.981

418  
 949

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BDD  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
197	0
*7	
2565	0
*132	
60	0
*6	
3061	0
*130	
246	0
*7	
5504	0
*131	
304	0
*7	
5888	0
*130	
ROCK TOTAL	0
*523	
SHEET TOTAL	17018

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
 STA. 47+860.000 TO STA. 47+920.000

ATH-33-40.981

419  
949

02/07/2001  
 02/04/05/09  
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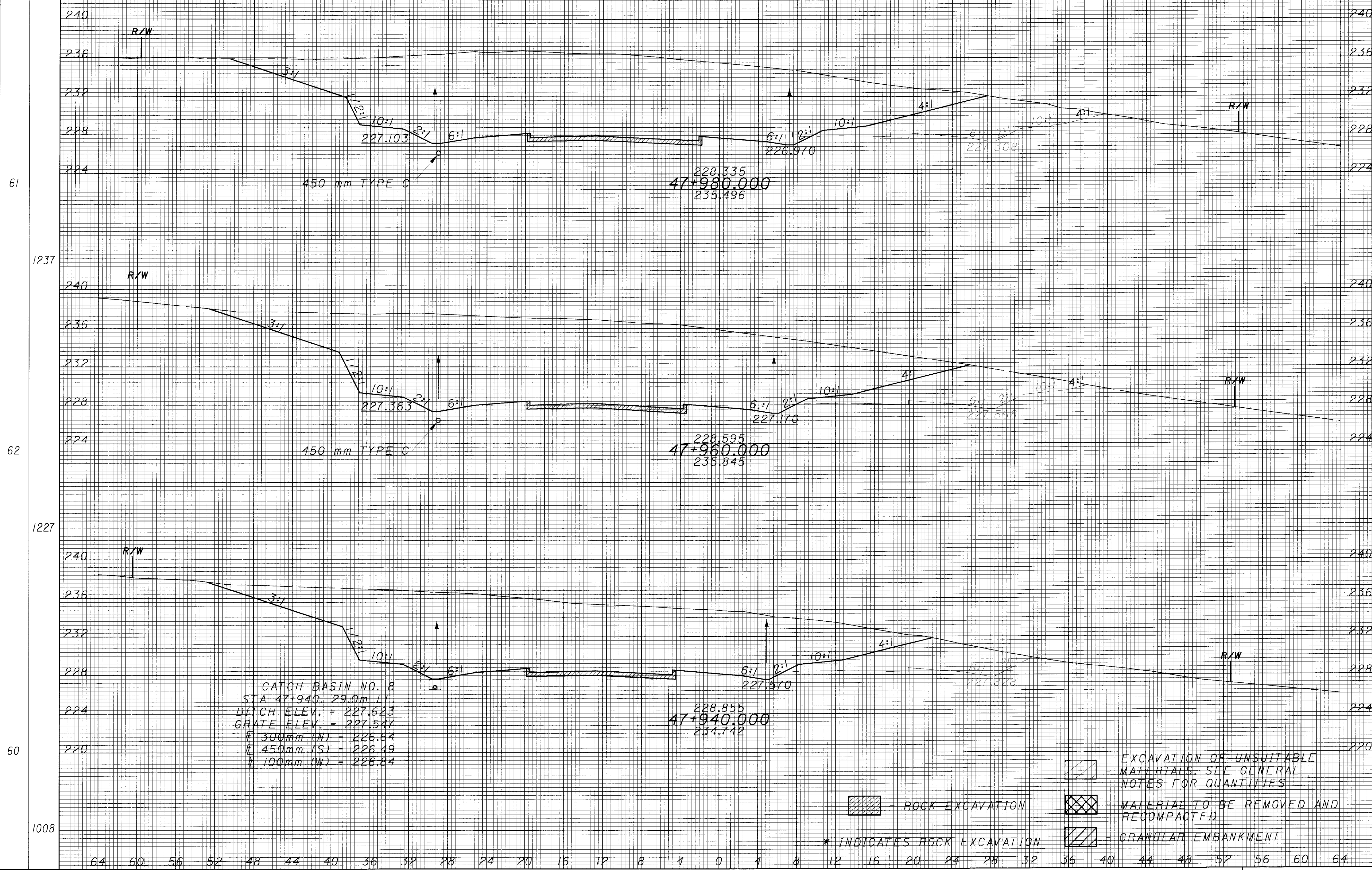
188 3908 SHEET TOTAL

SHEET TOTAL

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BY  
CHECKED  
TDW



450 mm TYPE C

47+980.000  
228.335  
235.496

450 mm TYPE C

47+960.000  
228.595  
235.845

CATCH BASIN NO. 8  
STA 47+940.29.0m LT.  
DITCH ELEV. = 227.623  
GRATE ELEV. = 227.547  
E 300mm (N) = 226.64  
E 450mm (S) = 226.49  
E 100mm (W) = 226.84

47+940.000  
228.855  
234.742

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
  - ROCK EXCAVATION
  - MATERIAL TO BE REMOVED AND RECOMPACTED
  - GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

END AREA	VOLUME
CUT	FILL
475	0
*8	
9660	0
*157	
491	0
*8	
8925	0
*145	
402	0
*7	
5988	0
*137	
ROCK TOTAL	
*439	
24573	0

CROSS SECTIONS - US 33  
STA. 47+940.000 TO STA. 47+980.000

ATH-33-40.981

420  
949

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183 3472 SHEET TOTAL

SHEET TOTAL

CL

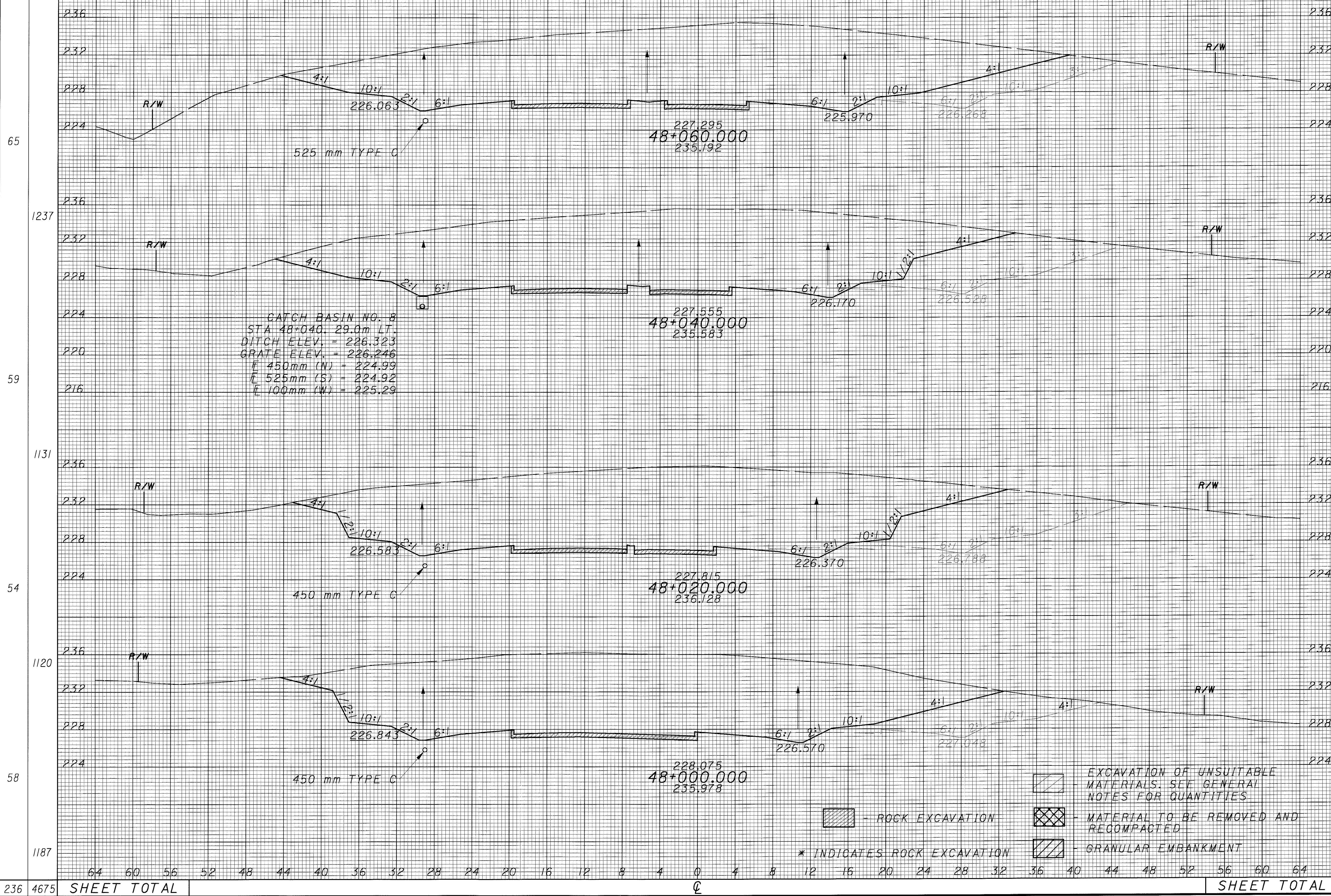
SEEDING  
END SO.  
WIDTH METERS

END AREA	VOLUME		CALCULATED BBD	CHECKED TDW
	CUT	FILL		
498	0			
*10				
9828	0			
*196				
485	0			
*10				
9748	0			
*191				
490	0			
*10				
9898	0			
*186				
500	0			
*9				
9750	0			
*172				
ROCK TOTAL	*745			
SHEET TOTAL	39224	0		

CROSS SECTIONS - US 33  
STA. 48+000.000 TO STA. 48+060.000

ATH-33-40.981

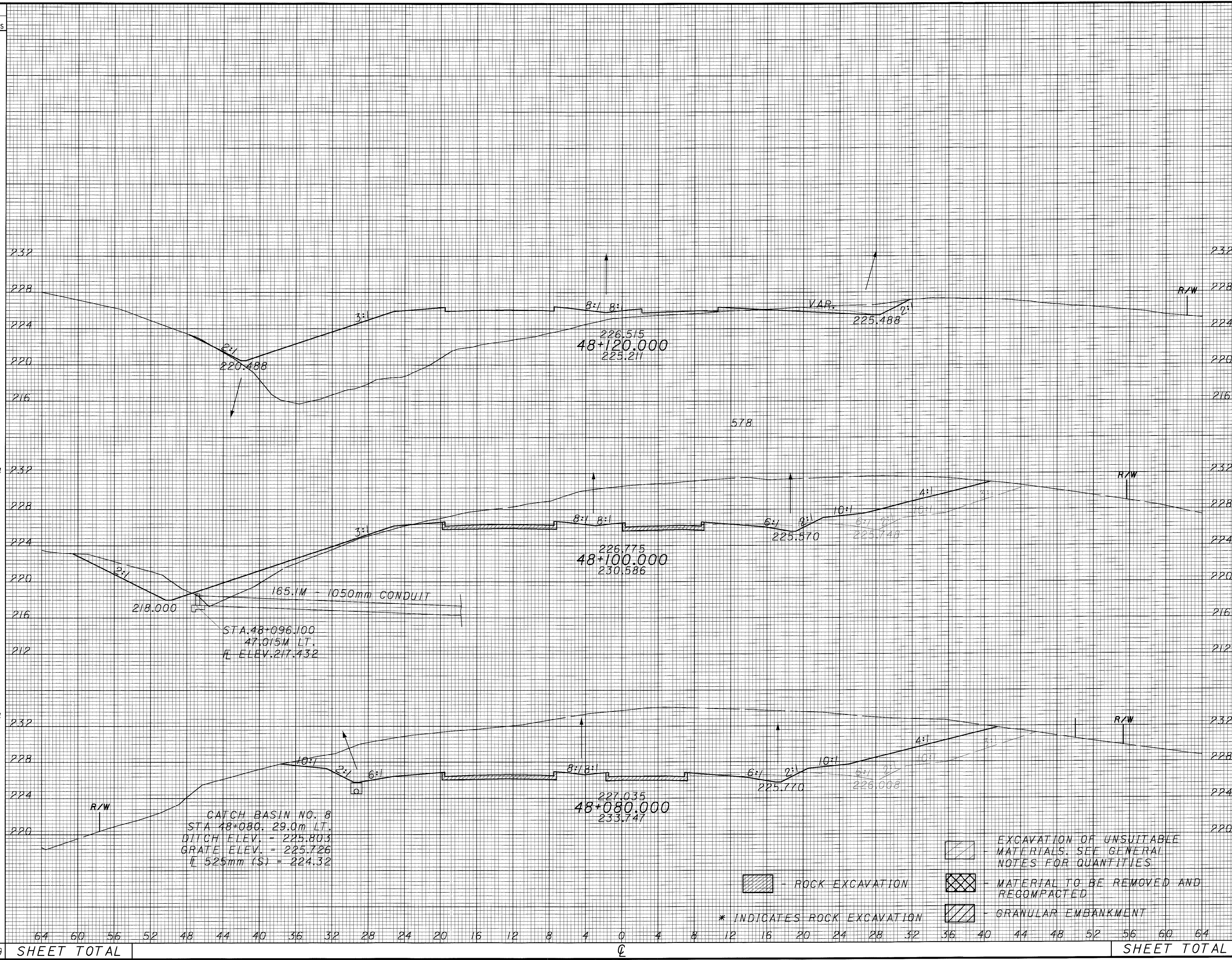
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949



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02/07/2001  
 16:06:36  
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SEEDING	
END WIDTH	SO. METERS
61	1454
84	1444
60	1251
205	4149



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
10	196			
*0				
2404	2153			
*100				
230	19			
*10				
6268	189			
*202				
397	0			
*10				
8949	0			
*202				
ROCK TOTAL	*504			
SHEET TOTAL	17621	2342		

CROSS SECTIONS - US 33  
 STA. 48+080.000 TO STA. 48+120.000

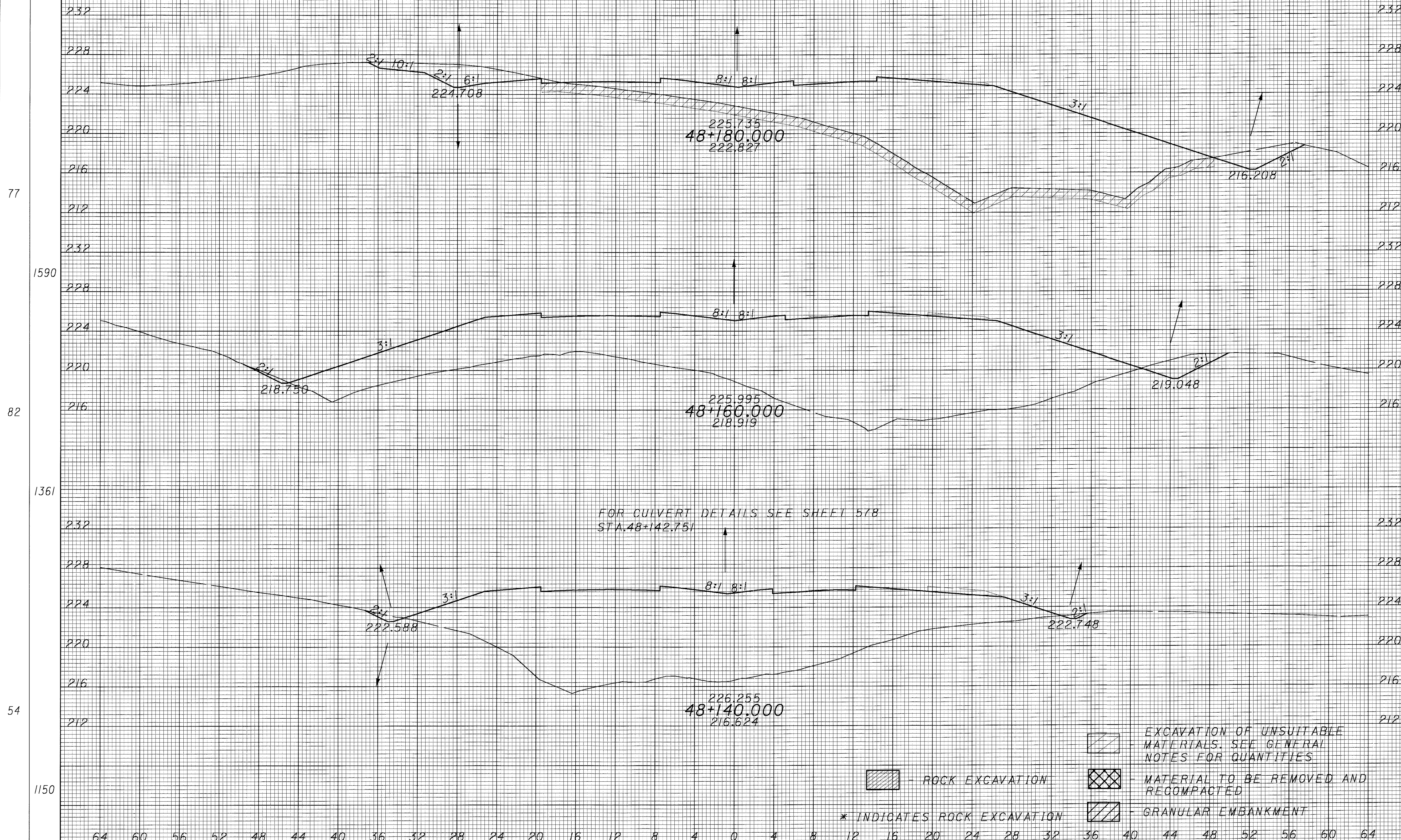
ATH-33-40.981

422  
 949

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



77

1590

82

1361

54

1150

END AREA	VOLUME
CUT	FILL
31	329
*0	
419	8361
11	507
131	9150
2	408
122	6048
<b>ROCK TOTAL</b>	
672	23559

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

**CROSS SECTIONS - US 33**  
**STA. 48+140.000 TO STA. 48+180.000**

**ATH-33-40.981**

423  
949

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213 401 SHEET TOTAL

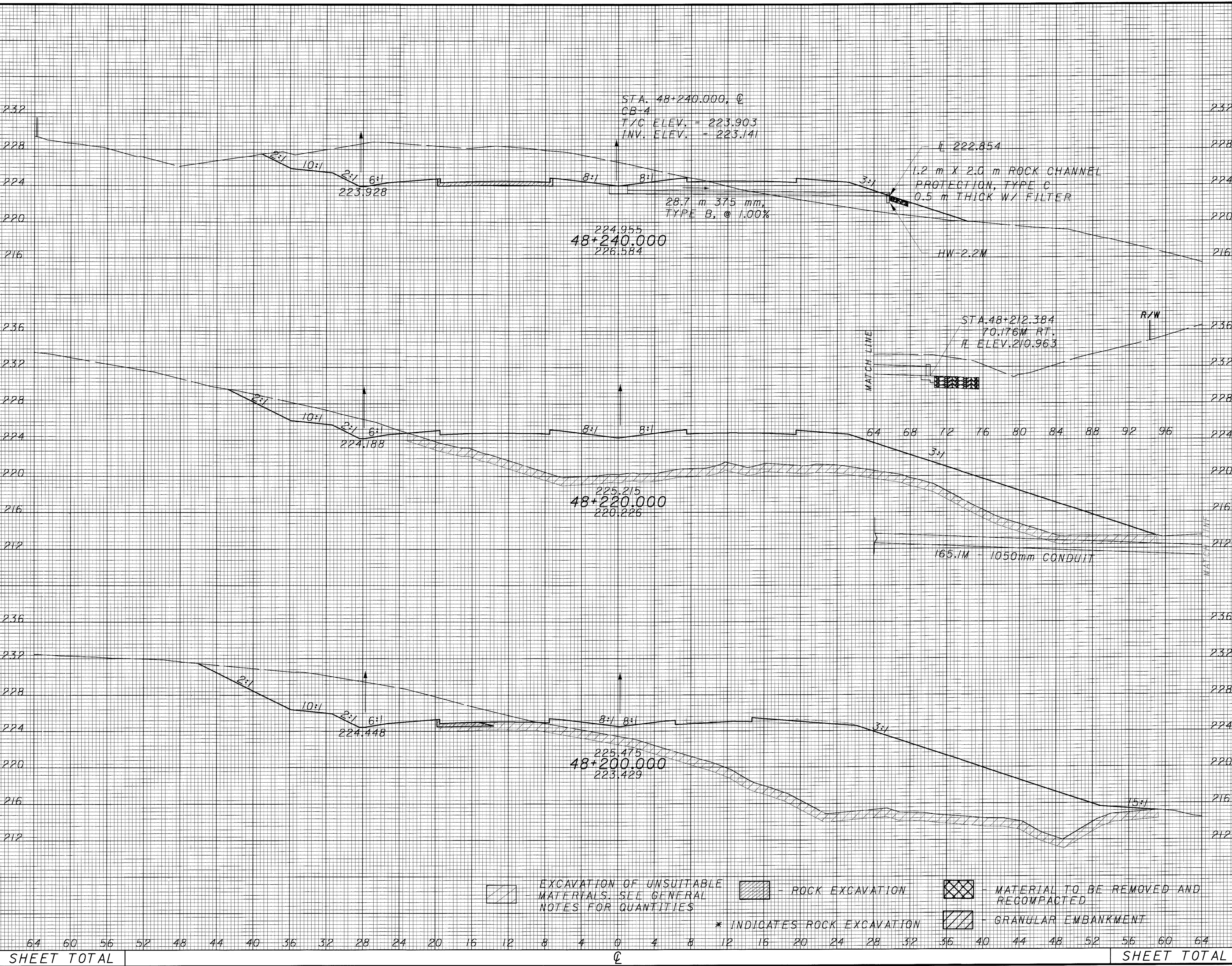
SHEET TOTAL

Q



02/07/2001  
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SEEDING	END SO.	
	WIDTH	METERS
	64	60
	56	52
	48	44
	40	36
	32	28
	24	20
	16	12
	8	4
	0	0
	4	8
	12	16
	20	24
	28	32
	36	40
	44	48
	52	56
	60	64
224	4698	



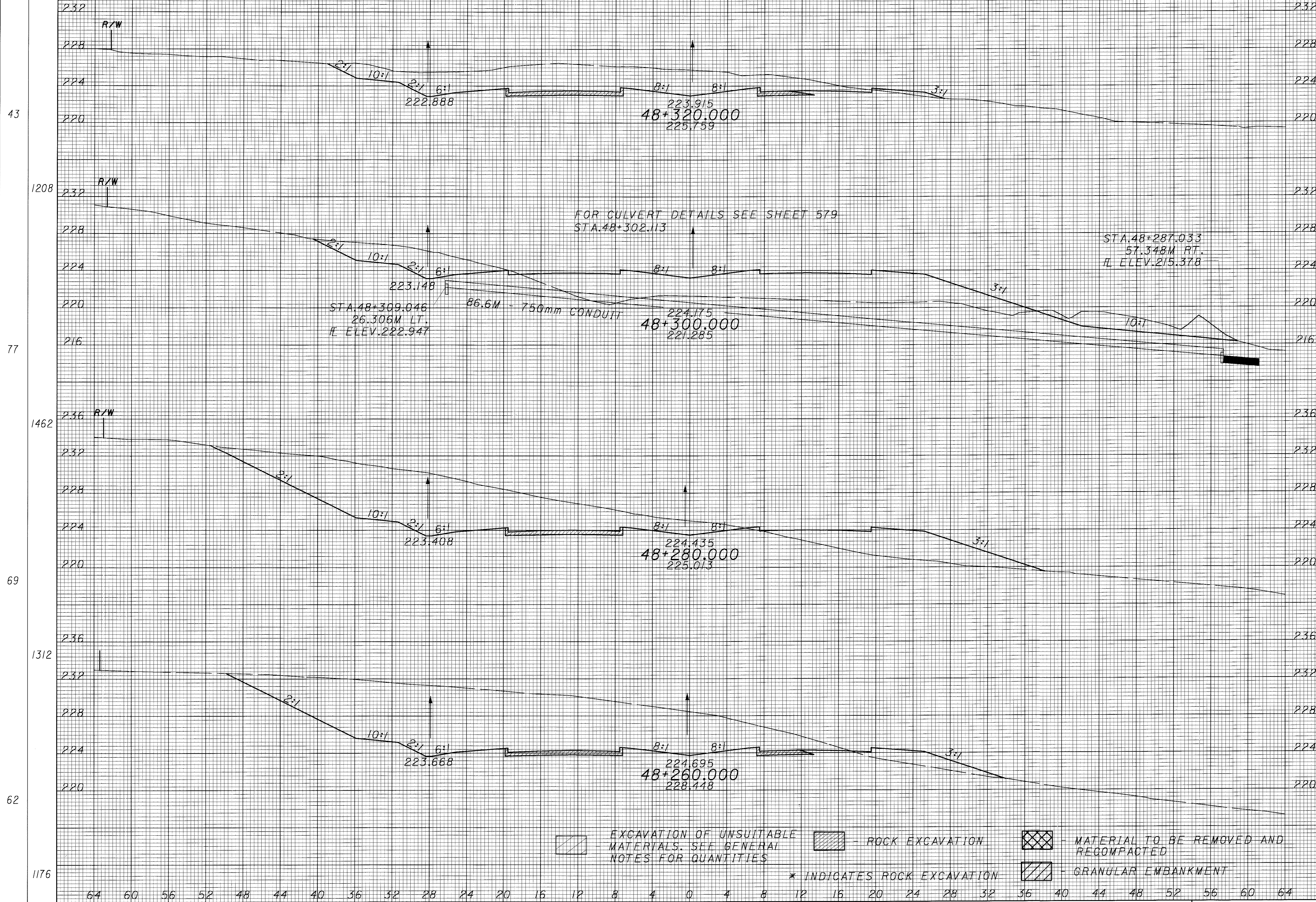
END AREA	VOLUME	
	CUT	FILL
	137	44
	*6	
	1633	2997
	*60	
	26	255
	*0	
	1271	5751
	*10	
	101	320
	*2	
	1315	6491
	*10	
ROCK TOTAL	*80	
SHEET TOTAL	4219	15239

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

CALCULATED BY: BBD  
 CHECKED BY: TDW  
**CROSS SECTIONS - US 33**  
**STA. 48+200.000 TO STA. 48+240.000**  
**ATH-33-40.981**  
 424  
 949

SEEDING  
END WIDTH SO. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
CHECKED  
TOW



END AREA	VOLUME
CUT	FILL
116 *8	2
	1755 *80
60 *0	133
	2544 *60
194 *6	55
	4965 *141
302 *8	15
	4391 *141
ROCK TOTAL	
*422	594
SHEET TOTAL	13655 4530

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

ROCK EXCAVATION

MATERIAL TO BE REMOVED AND RECOMPACTED

GRANULAR EMBANKMENT

\* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
STA. 48+260.000 TO STA. 48+320.000

ATH-33-40.981

425  
949

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251 5158

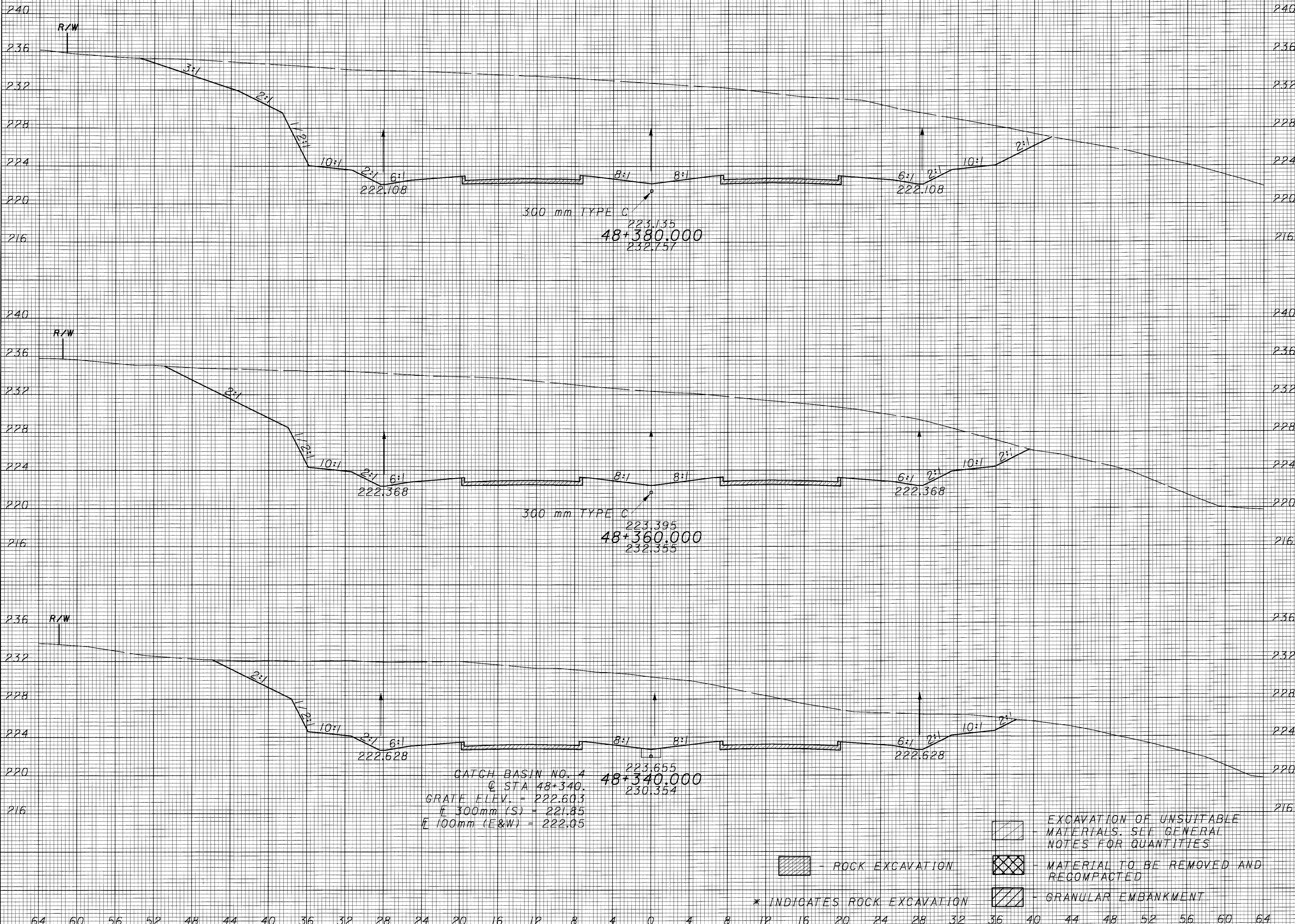
SHEET TOTAL

SHEET TOTAL

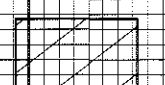



Q

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BBB  
CHECKED  
TDW



CATCH BASIN NO. 4  
CL STA 48+340.000  
GRATE ELEV. = 222.603  
E 300mm (S) = 221.85  
E 100mm (E&W) = 222.05

-  EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
-  MATERIAL TO BE REMOVED AND RECOMPACTED
-  GRANULAR EMBANKMENT
-  ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

END AREA	VOLUME
CUT	FILL
750	0
*12	
14569	0
*234	
707	0
*12	
11863	0
*234	
480	0
*12	
5951	23
*198	
ROCK TOTAL	*666
SHEET TOTAL	32383 23

CROSS SECTIONS - US 33  
STA. 48+340.000 TO STA. 48+380.000

ATH-33-40.981

426  
949

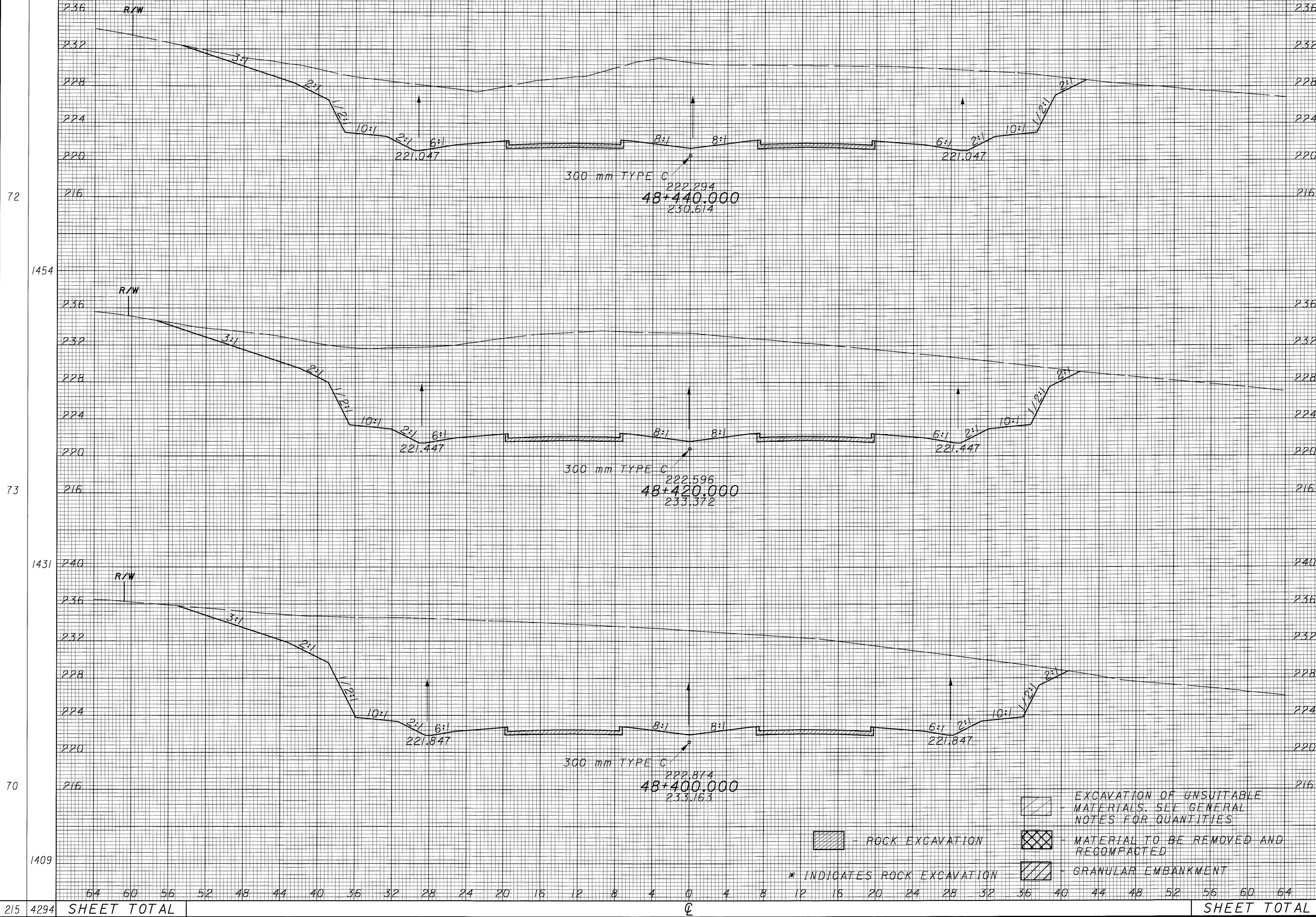
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199 3702 SHEET TOTAL

SHEET TOTAL

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BBO  
CHECKED  
TDW



END AREA	VOLUME	CALCULATED	CHECKED
CUT	FILL	CUT	FILL
609	0		
*12		13993	0
		*234	
791	0		
*12		15940	0
		*234	
803	0		
*12		15535	0
		*234	
ROCK TOTAL		*702	
		45468	0

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
  - ROCK EXCAVATION
  - MATERIAL TO BE REMOVED AND RECOMPACTED
  - GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
STA. 48+400.000 TO STA. 48+440.000

ATH-33-40.981

427  
949

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215 4294 SHEET TOTAL

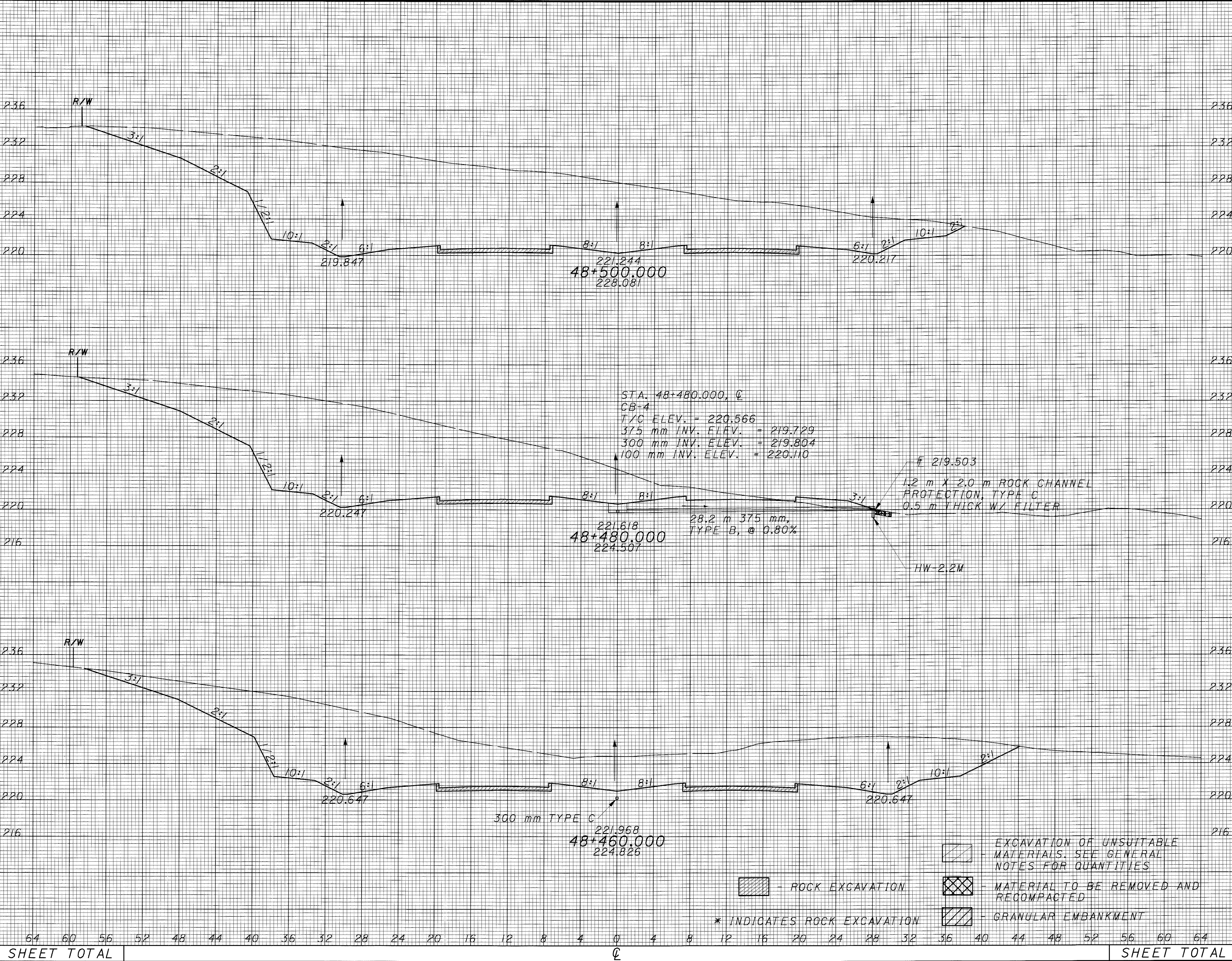
SHEET TOTAL

C

SEEDING  
END SO.  
WIDTH METERS

72  
1356  
63  
1429  
80  
1517

215 4302 SHEET TOTAL



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
612	0			
*12				
10116	57			
*175				
400	6			
*6				
8675	57			
*175				
468	0			
*12				
10764	0			
*234				
ROCK TOTAL	*584			
29555	114			

CROSS SECTIONS - US 33  
STA. 48+460.000 TO STA. 48+500.000

ATH-33-40.981

428  
949

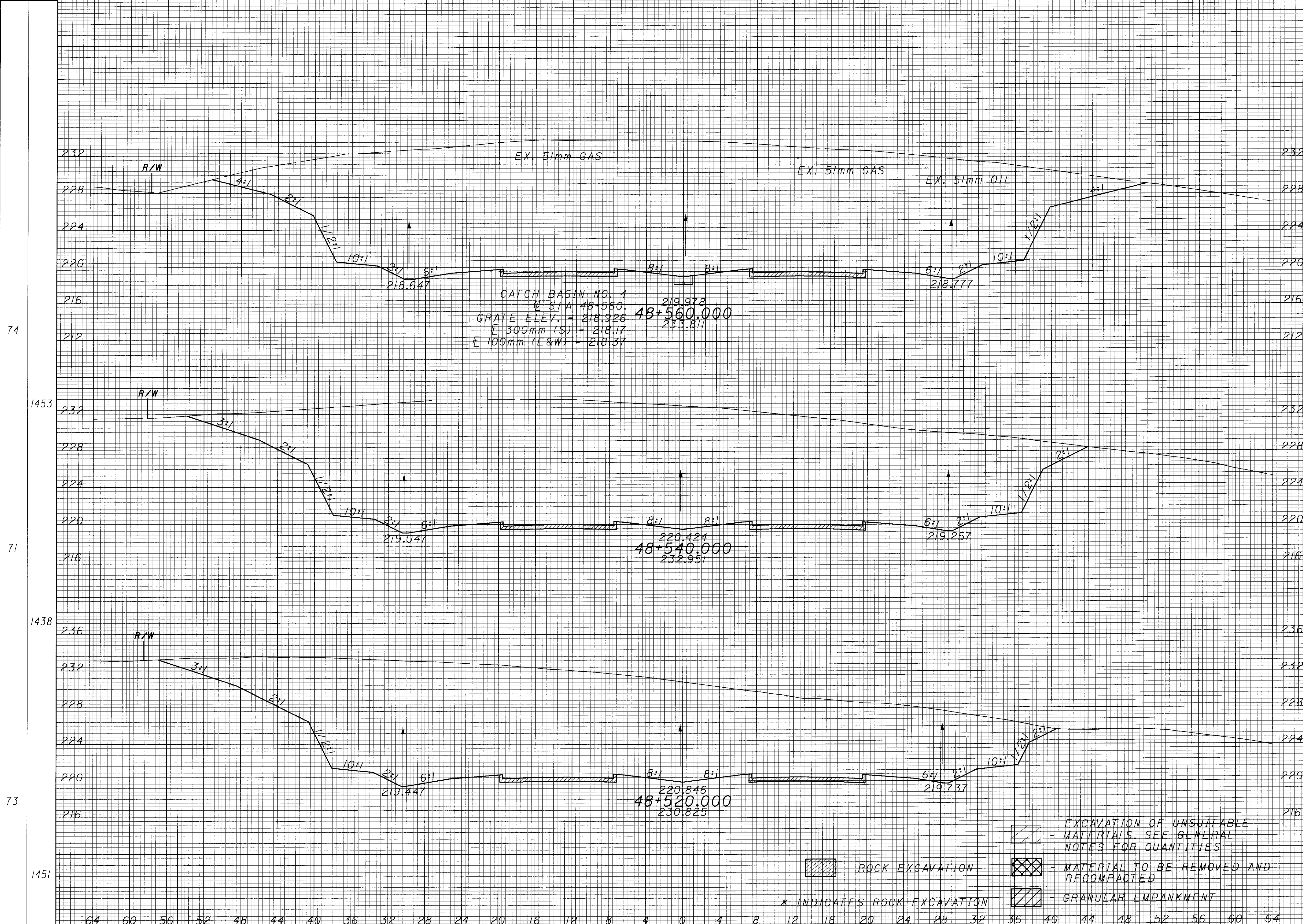
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- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BDD  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
1099	0
*12	
20978	0
*234	
998	0
*12	
18391	0
*234	
841	0
*12	
14525	0
*234	
ROCK TOTAL	*702
SHEET TOTAL	53892 0

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- ROCK EXCAVATION

CROSS SECTIONS - US 33  
 STA. 48+520.000 TO STA. 48+560.000

ATH-33-40.981

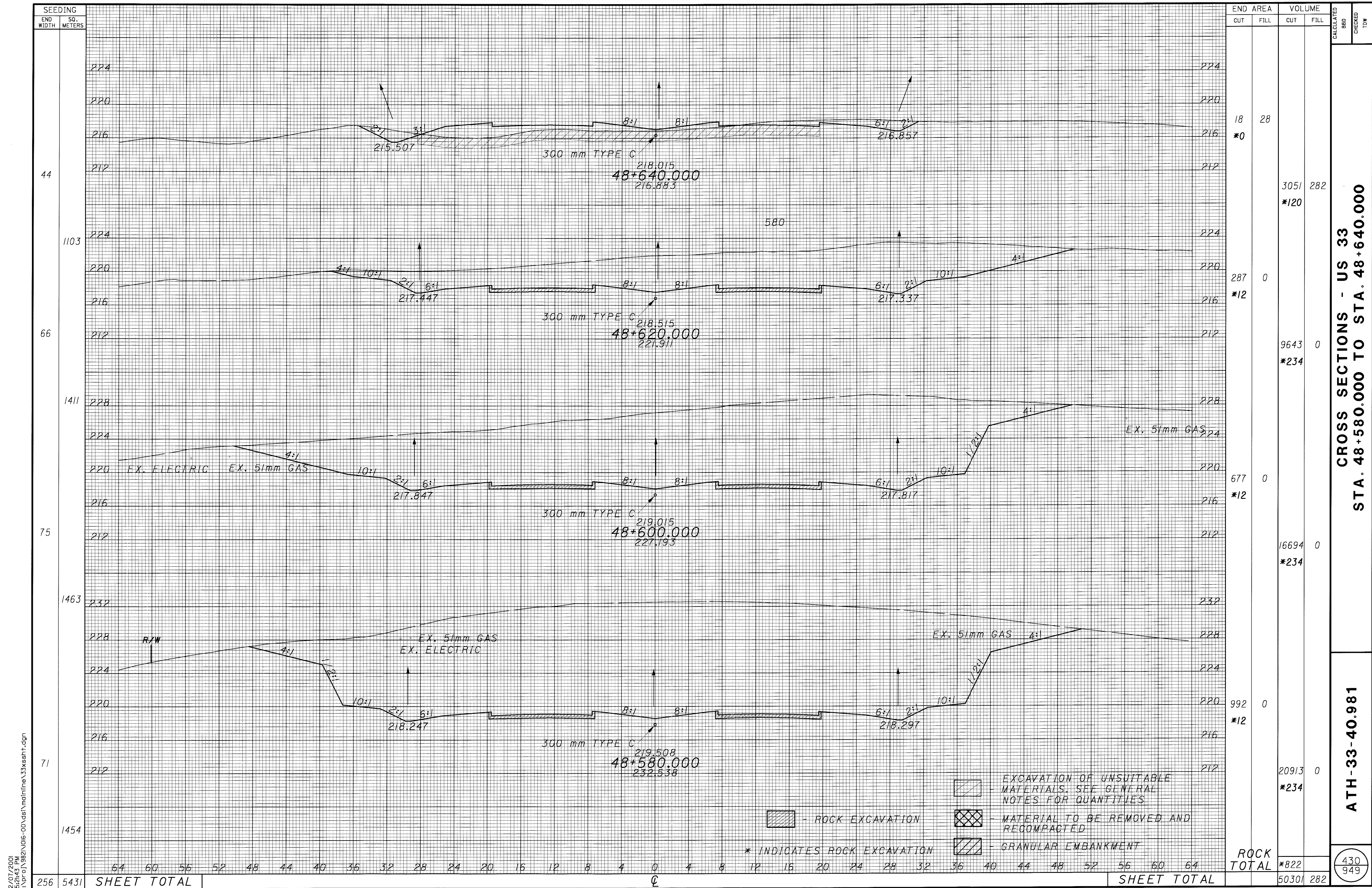
429  
 949

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218 4342 SHEET TOTAL

SHEET TOTAL

Q



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
18	28			
*0				
		3051	282	
		*120		
287	0			
*12				
		9643	0	
		*234		
677	0			
*12				
		16694	0	
		*234		
992	0			
*12				
		20913	0	
		*234		
ROCK TOTAL		*822		
SHEET TOTAL		50301	282	

CROSS SECTIONS - US 33  
 STA. 48+580.000 TO STA. 48+640.000

ATH-33-40.981

430  
 949

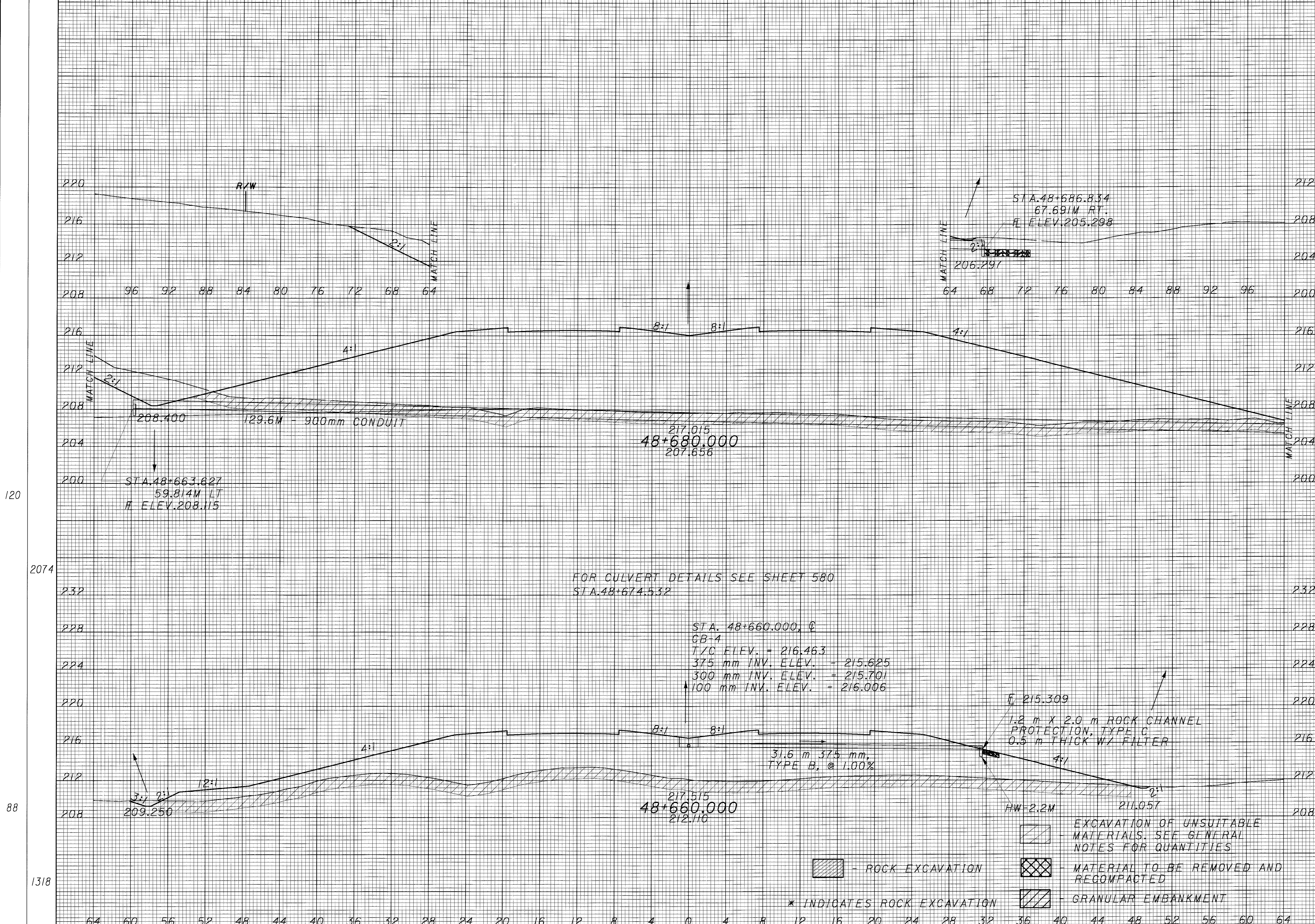
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256 5431 SHEET TOTAL

SHEET TOTAL

SEEDING  
END SQ.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBD  
CHECKED  
TDW



END AREA	VOLUME		CALCULATED	BBD	CHECKED	TDW
	CUT	FILL				
40	748					
416	10872					
1	340					
196	3678					
<b>ROCK TOTAL</b>						
612	14550					

CROSS SECTIONS - US 33  
STA. 48+660.000 TO STA. 48+680.000

ATH-33-40.981

431  
949

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308 3392 SHEET TOTAL

SHEET TOTAL

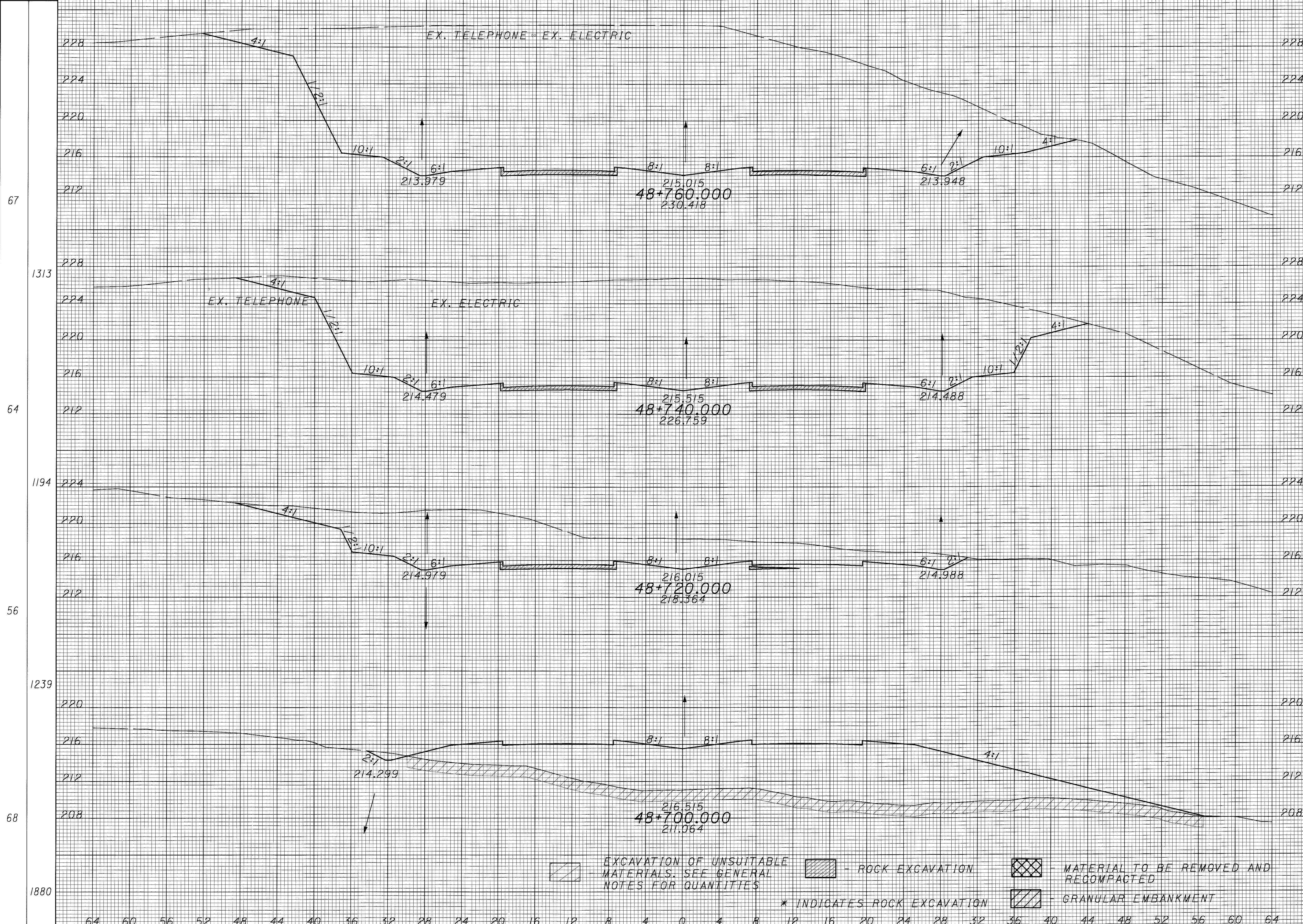
Q



SEEDING  
END SQ.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BY  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
1059	0
*12	
18986	0
*237	
840	0
*12	
10758	0
*175	
236	0
*7	
2381	3141
*70	
2	314
*0	
421	10618
ROCK TOTAL	*482

CROSS SECTIONS - US 33  
STA. 48+700.000 TO STA. 48+760.000

ATH-33-40.981

432  
949

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

ROCK EXCAVATION

MATERIAL TO BE REMOVED AND RECOMPACTED

GRANULAR EMBANKMENT

\* INDICATES ROCK EXCAVATION

255 5626 SHEET TOTAL

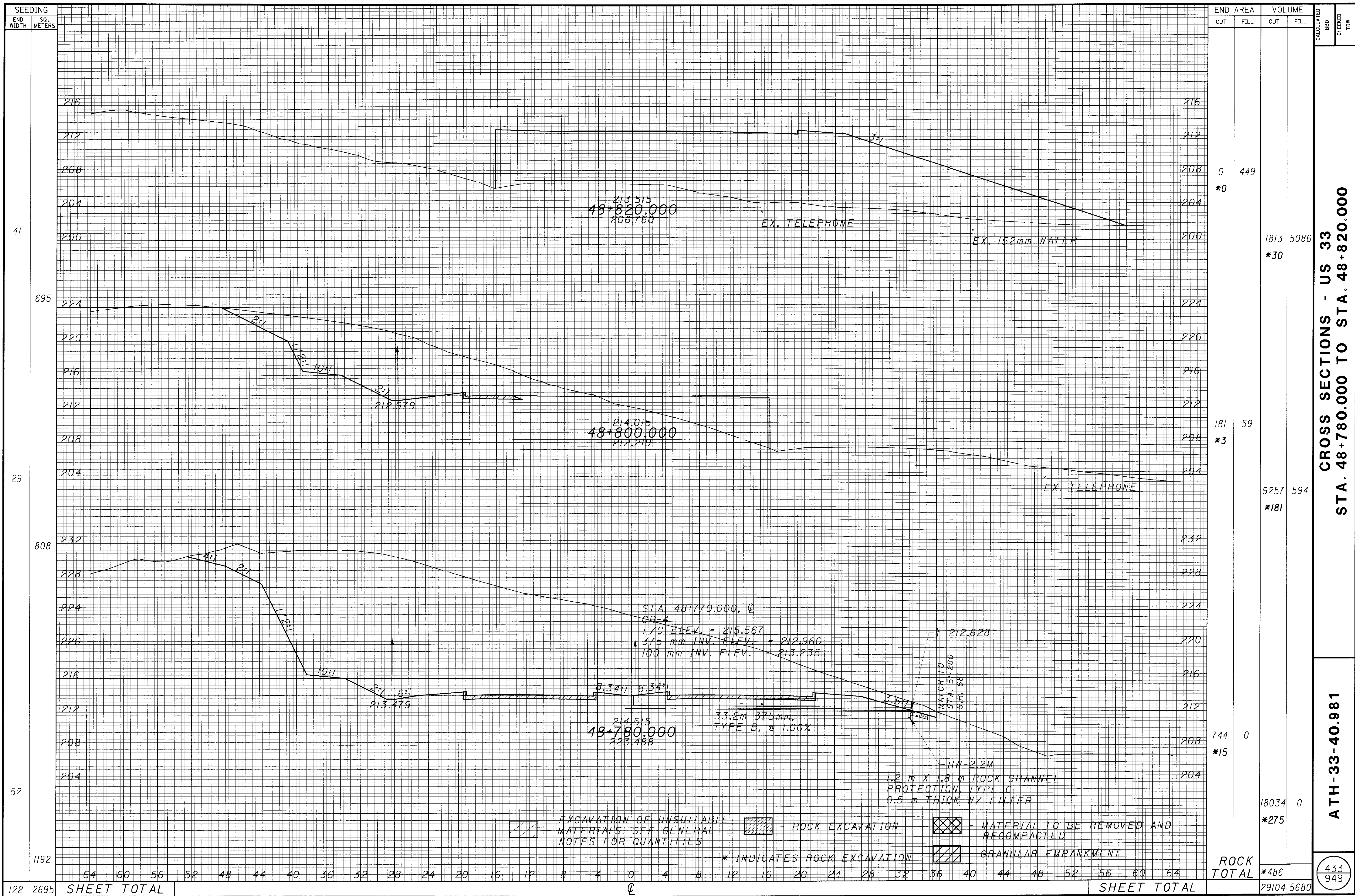
64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64

SHEET TOTAL

82546/3759

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02/07/2001  
 06:23:45 PM  
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END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
0	449			
*0				
1813	5086			
*30				
181	59			
*3				
9257	594			
*181				
744	0			
*15				
18034	0			
*275				
ROCK TOTAL	*486			
122	2695			
SHEET TOTAL			29104	5680

**CROSS SECTIONS - US 33**  
**STA. 48+780.000 TO STA. 48+820.000**

**ATH-33-40.981**

433  
 949

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 \* INDICATES ROCK EXCAVATION  
 - ROCK EXCAVATION  
 - MATERIAL TO BE REMOVED AND RECOMPACTED  
 - GRANULAR EMBANKMENT

HW-2.2M  
 1.2 m X 1.8 m ROCK CHANNEL  
 PROTECTION, TYPE C  
 0.5 m THICK W/ FILTER

STA. 48+770.000, @  
 CB-4  
 F/C ELEV. = 215.567  
 375 mm INV. ELEV. = 212.960  
 100 mm INV. ELEV. = 213.235

41

695

29

808

52

1192

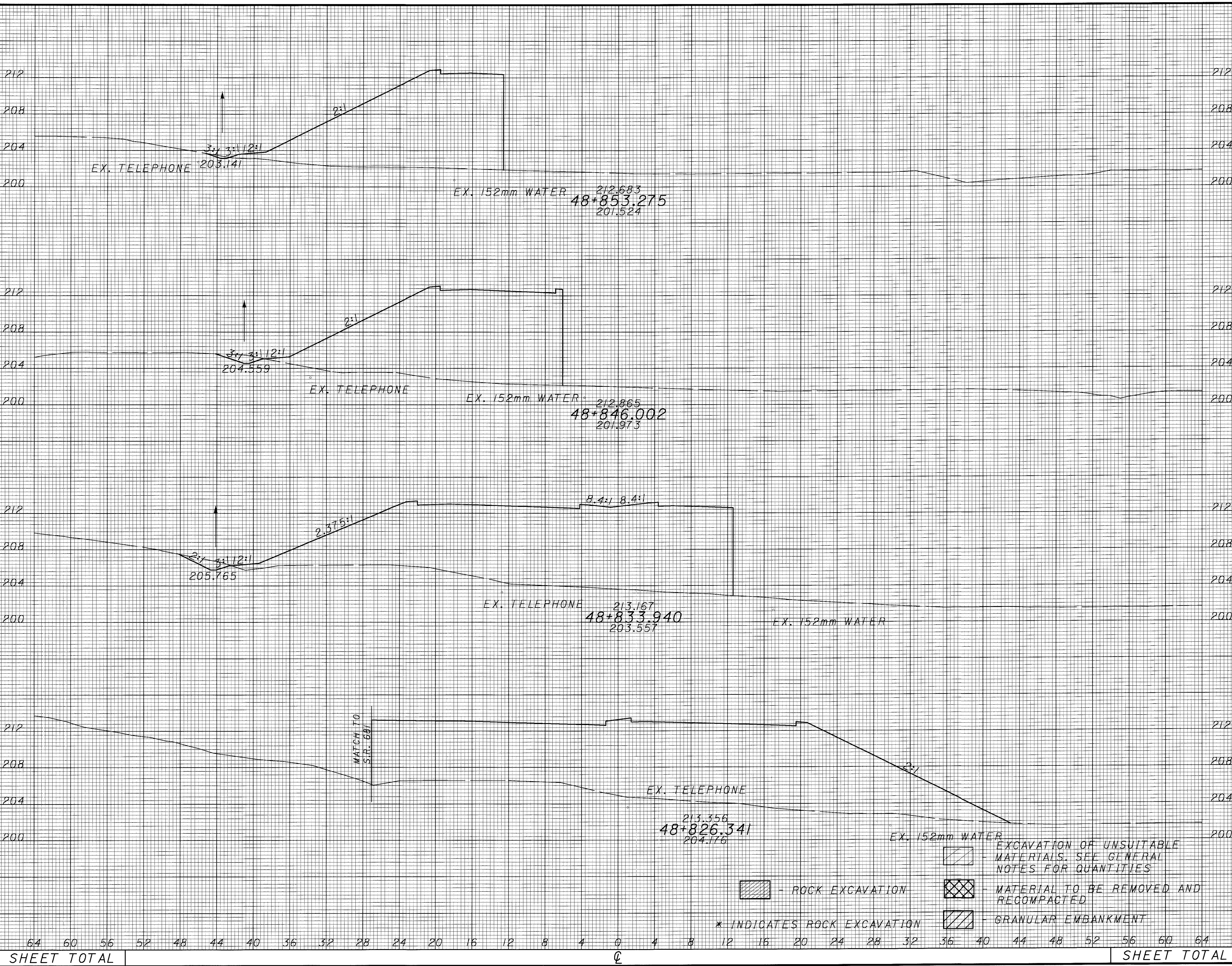
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Q

SHEET TOTAL

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SEEDING	END SO.	
	WIDTH	METERS
	64	60
	56	52
	48	44
	40	36
	32	28
	24	20
	16	12
	8	4
	0	0
	4	8
	12	16
	20	24
	28	32
	36	40
	44	48
	52	56
	60	64



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
0	194			
11		1556		
3	233			
35		3644		
3	371			
12		3200		
0	471			
0		2919		
<b>ROCK TOTAL</b>				
		58	11319	

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
  - ROCK EXCAVATION
  - MATERIAL TO BE REMOVED AND RECOMPACTED
  - GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

**CROSS SECTIONS - US 33**  
**STA. 48+826.341 TO STA. 48+853.275**

**ATH-33-40.981**

434  
 949

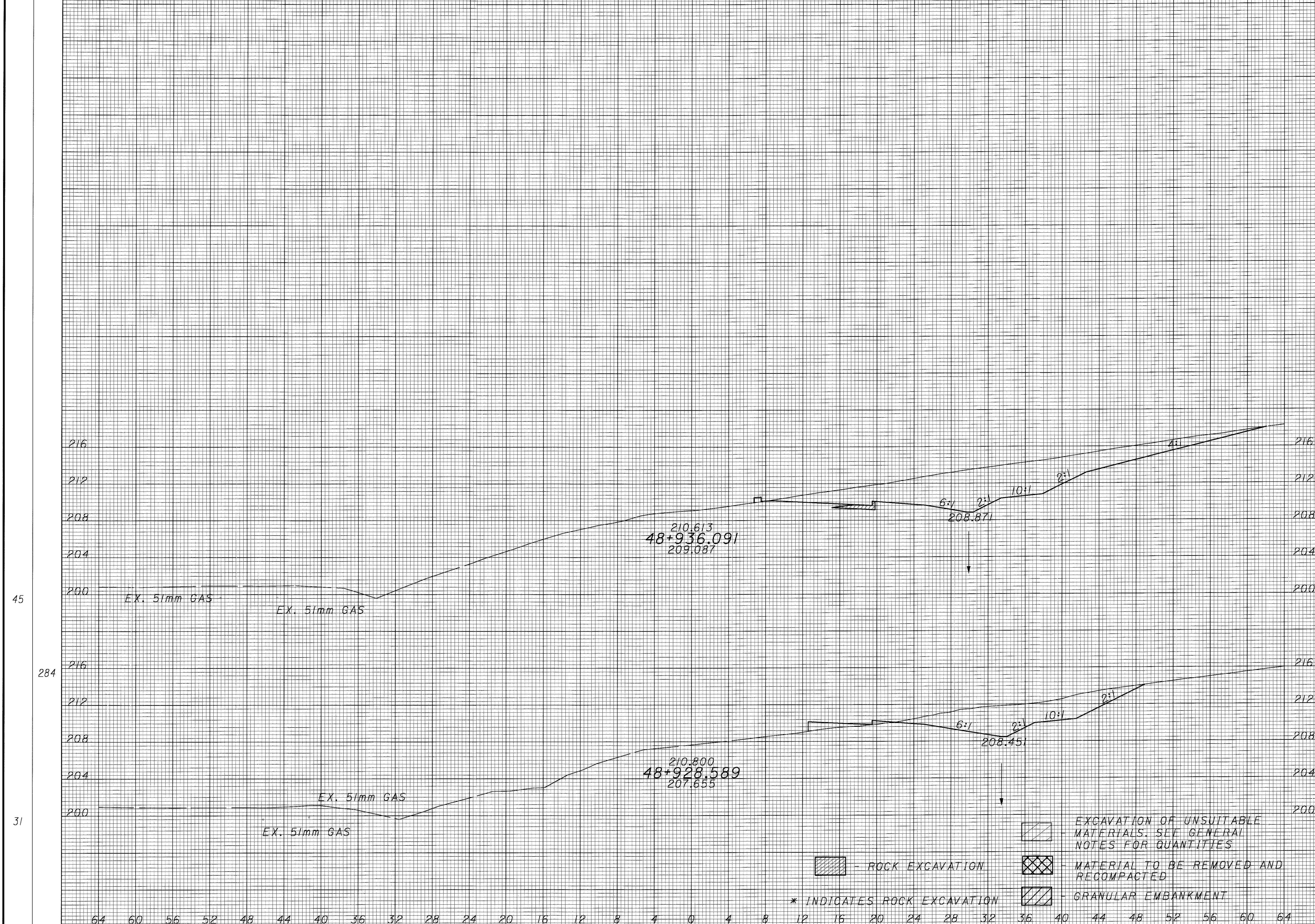
121 1059 SHEET TOTAL

SHEET TOTAL

Q

SEEDING  
END SO.  
WIDTH METERS

END AREA		VOLUME		CALCULATED BY	CHECKED BY
CUT	FILL	CUT	FILL		



	109	0		
	*2			
		599	16	
		*20		
	50	4		
	*0			
		0	0	
ROCK TOTAL				
	*20			
		599	16	

CROSS SECTIONS - US 33  
STA. 48+928.589 TO STA. 48+936.091

ATH-33-40.981

435  
949

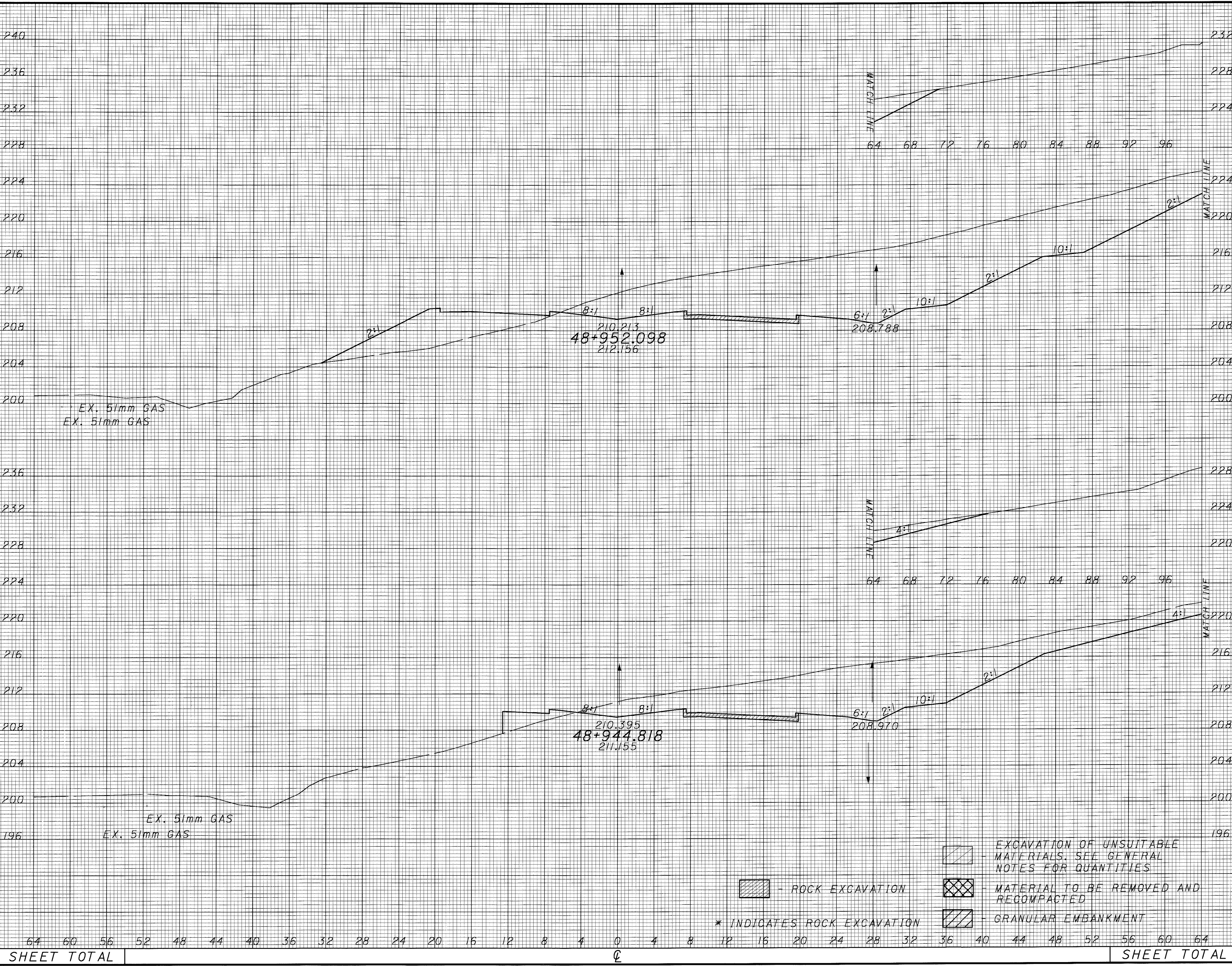
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76 284 SHEET TOTAL

SHEET TOTAL

02/07/2009  
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SEEDING	
END WIDTH	SO. METERS
160	1105

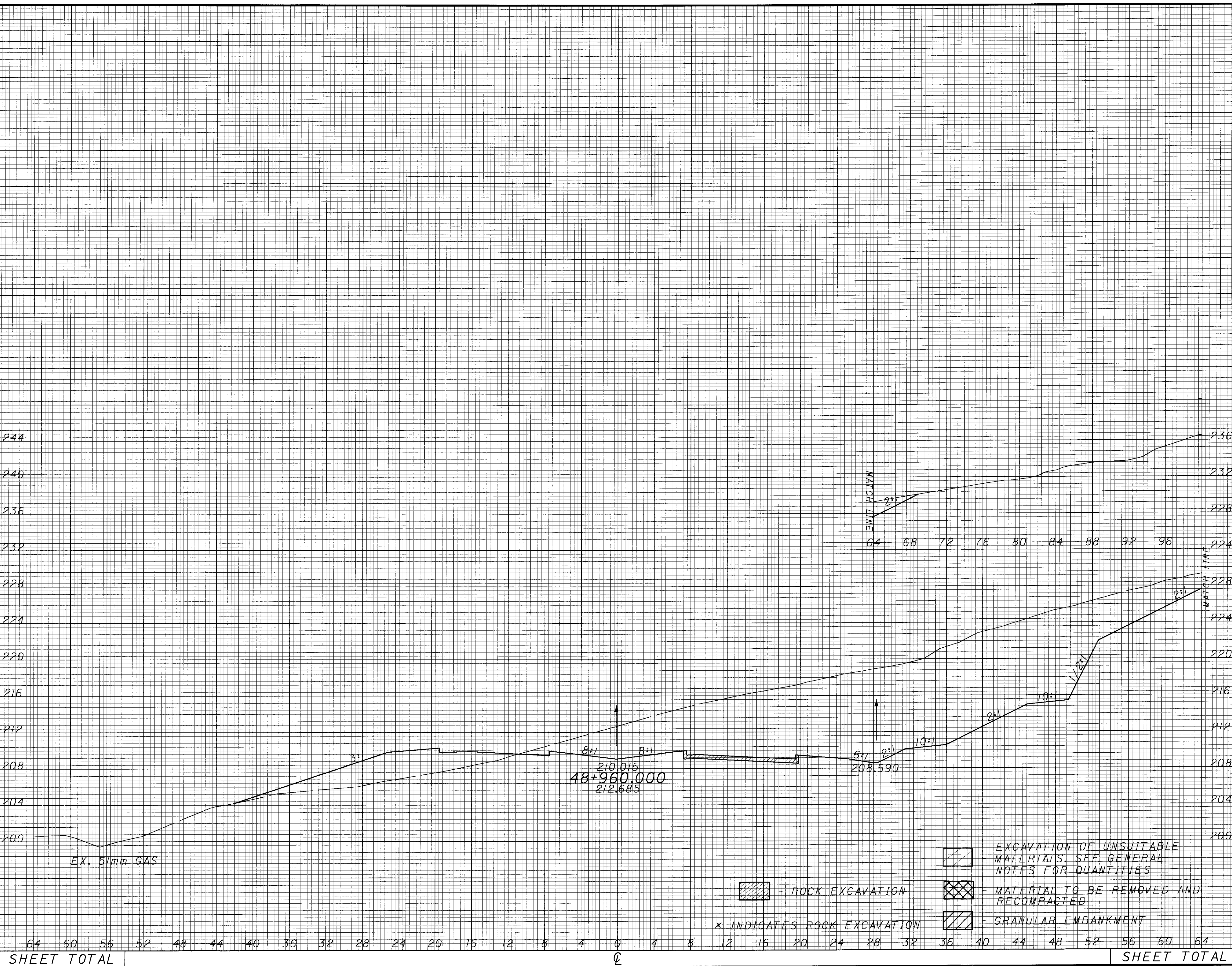


END AREA	VOLUME	
	CUT	FILL
370	55	
*6		
2154	236	
*43		
222	9	
*6		
1445	43	
*33		
ROCK TOTAL	*76	
SHEET TOTAL	3599	279

CALCULATED BBO  
 CHECKED TDW  
**CROSS SECTIONS - US 33**  
**STA. 48+944.818 TO STA. 48+952.098**  
**ATH-33-40.981**  
 436  
 949

02/07/2001  
 02:26:00 PM  
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SEEDING	
END WIDTH	SO. METERS
95	711
SHEET TOTAL	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
485	52		
*6			
		3378	425
		*47	
ROCK TOTAL		*47	
SHEET TOTAL		3378	425

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- ROCK EXCAVATION

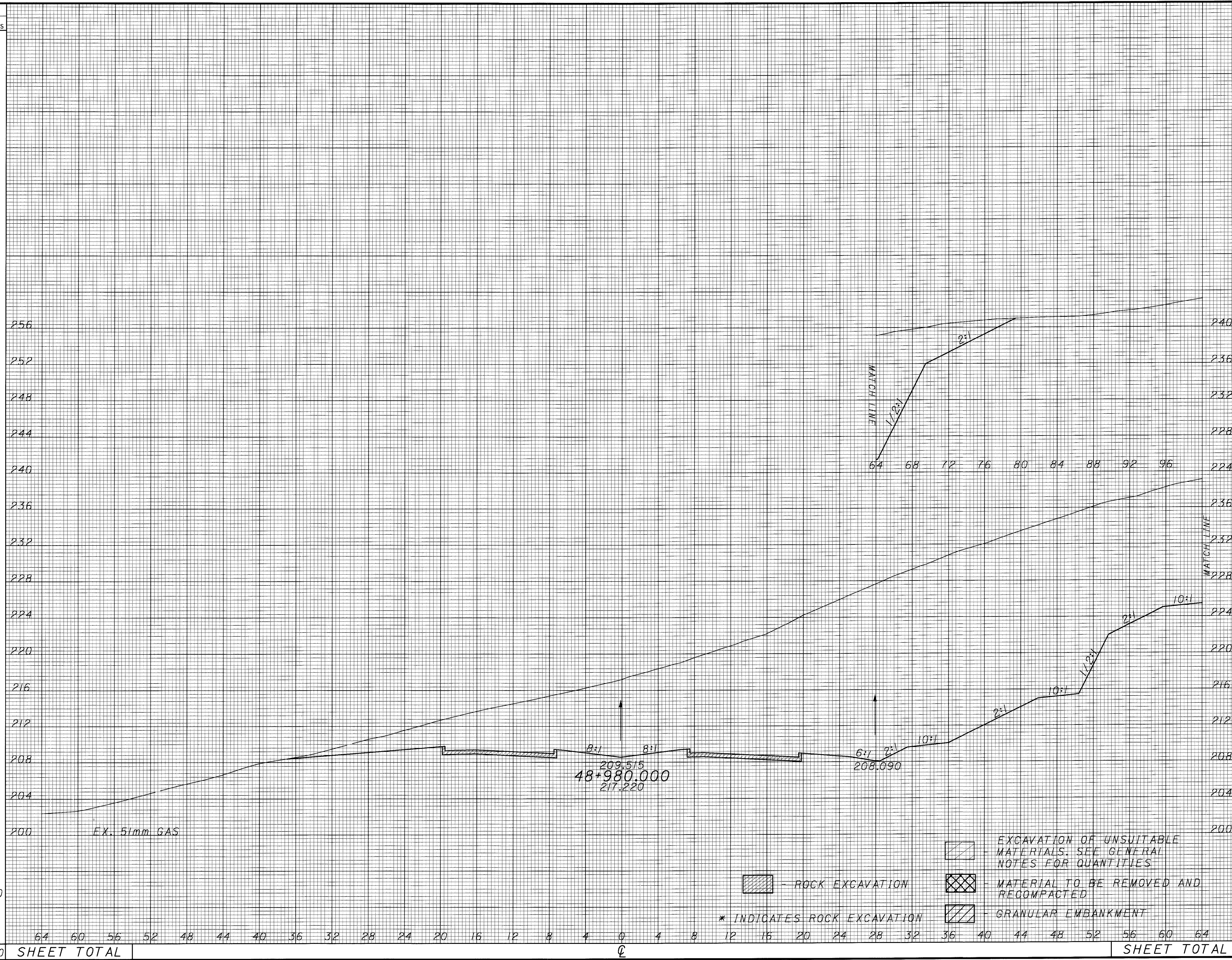
CROSS SECTIONS - US 33  
 STA. 48+960.000

ATH-33-40.981

437  
 949

02/07/2004  
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SEEDING	
END WIDTH	SO. METERS
107	2020
SHEET TOTAL	



- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
1220	0			
*12				
	17043	523		
	*178			
ROCK TOTAL	*178			
SHEET TOTAL	17043	523		

**CROSS SECTIONS - US 33**  
**STA. 48+980.000**

**ATH-33-40.981**

438  
 949

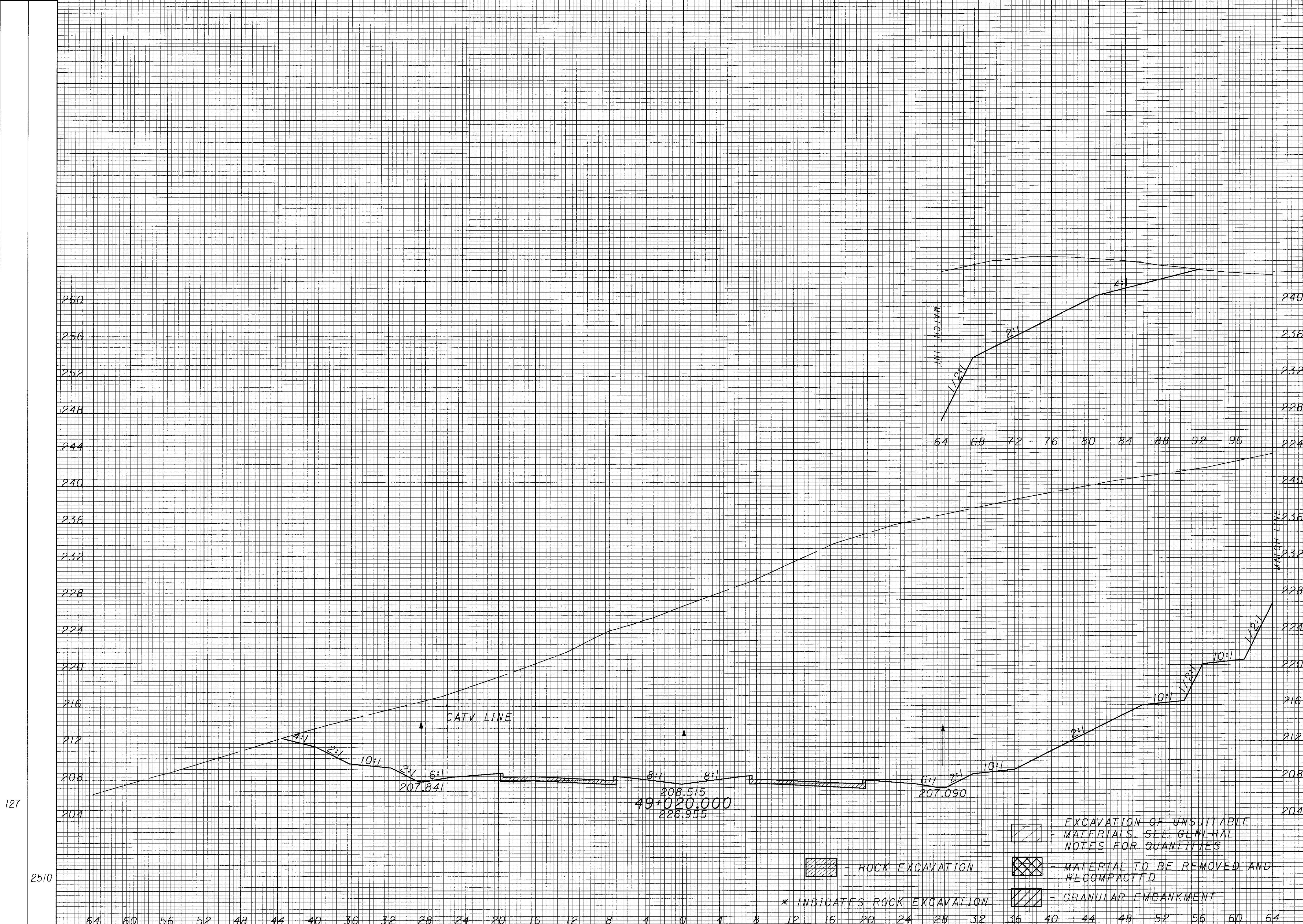




SEEDING  
END SO.  
WIDTH SQ.  
METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

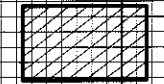


CALCULATED  
BBD  
CHECKED  
TDW



02/07/2001  
02:22:27:50  
D:\P\01\982\1016-00\dsl\mainline\33xssht.dgn

127 2510 SHEET TOTAL

ROCK TOTAL \*238 41838 0

-  ROCK EXCAVATION
-  MATERIAL TO BE REMOVED AND RECOMPACTED
-  GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

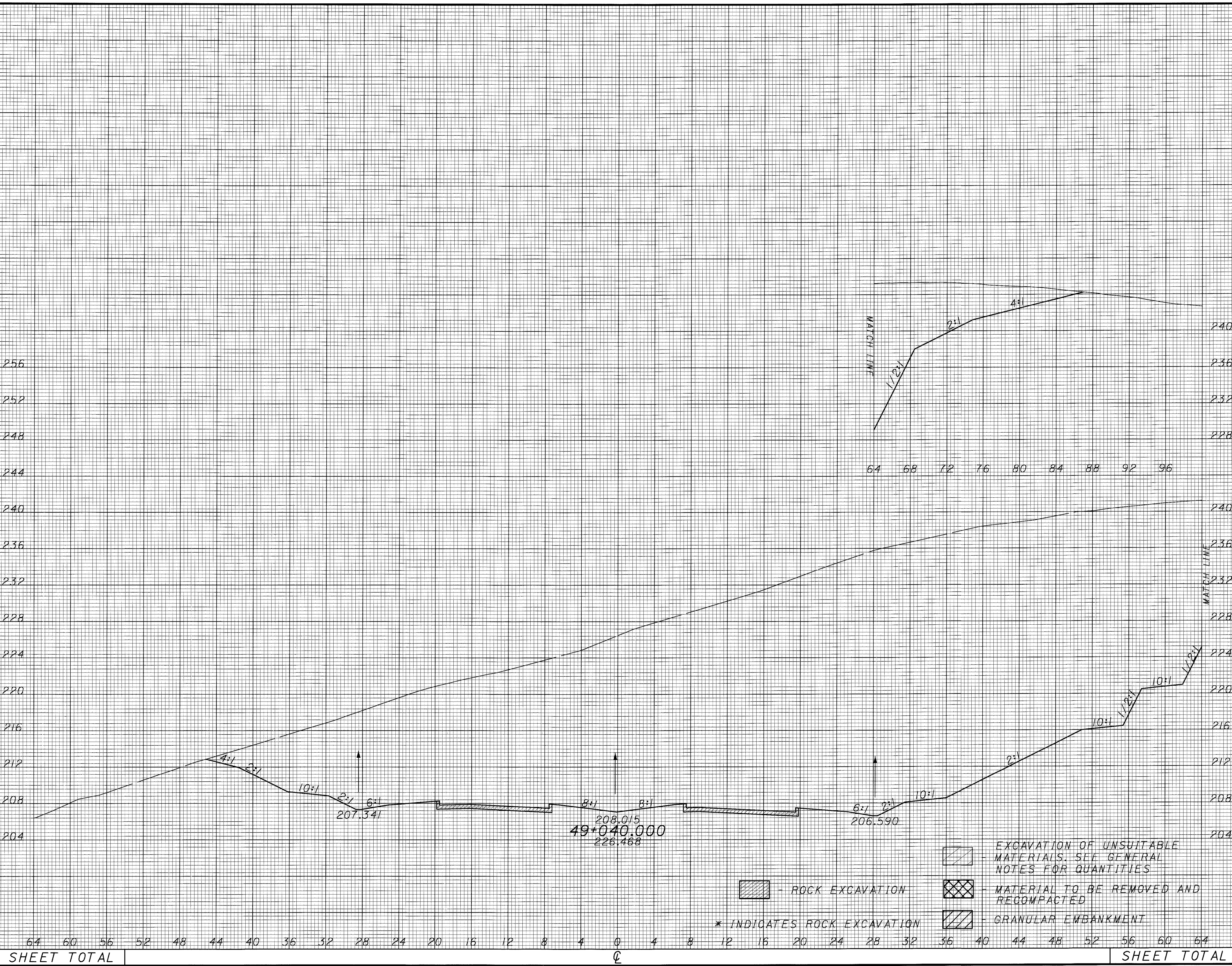
CROSS SECTIONS - US 33  
STA. 49+020.000

ATH-33-40.981

440  
949

02/07/2001  
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SEEDING	
END WIDTH	SQ. METERS
123	2500
<b>SHEET TOTAL</b>	



END AREA	VOLUME		CALCULATED	CHECKED	TDW
	CUT	FILL			
2187	0				
*12					
44131	0				
*238					
<b>ROCK TOTAL</b>	<b>*238</b>				
44131	0				
<b>SHEET TOTAL</b>					

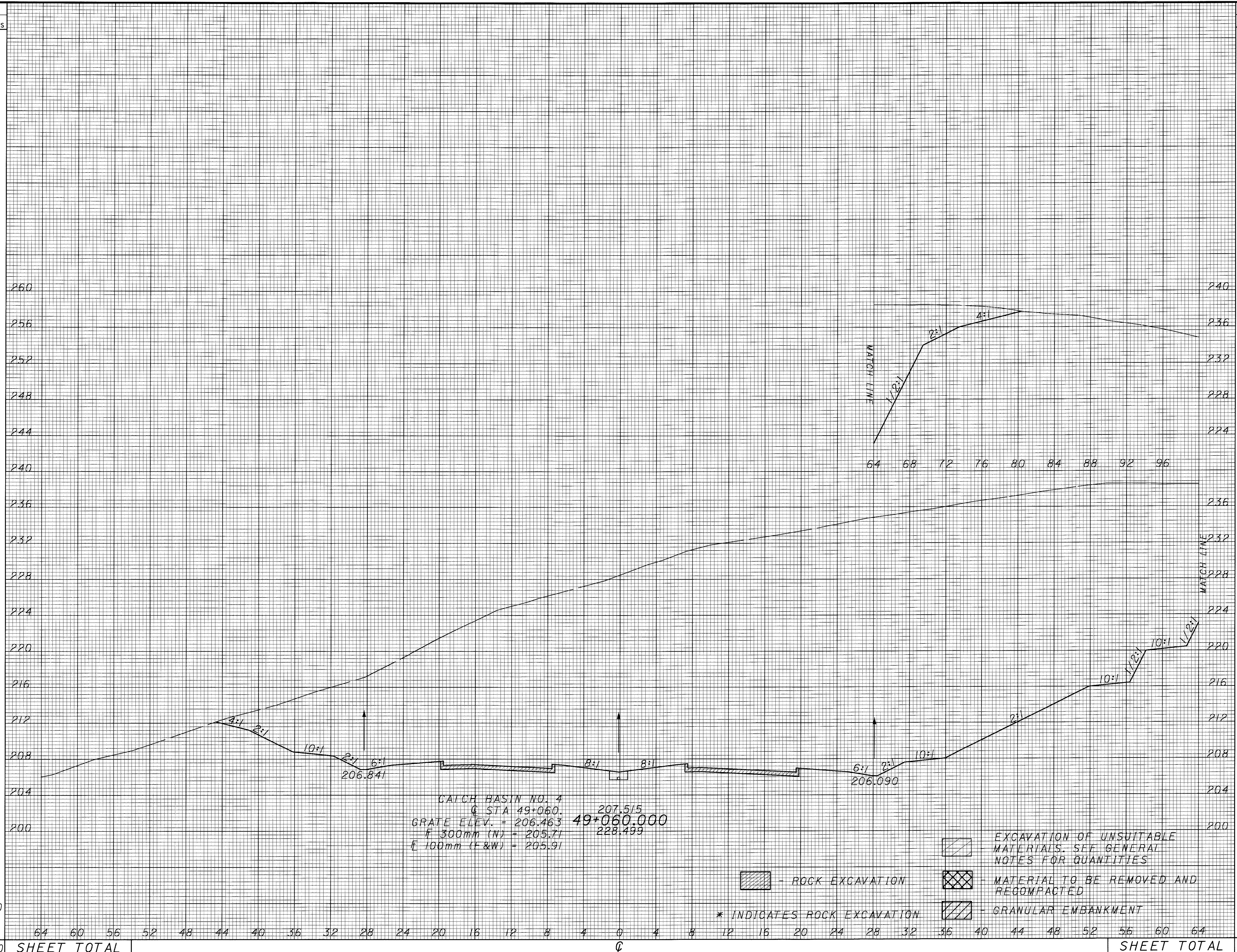
**CROSS SECTIONS - US 33**  
**STA. 49+040.000**

**ATH-33-40.981**

441  
949

02/07/2001  
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SEEDING  
 END WIDTH SO.  
 METERS METERS



CATCH BASIN NO. 4  
 CL STA 49+060.000 207.515  
 GRATE ELEV. = 206.463 49+060.000  
 F 300mm (N) = 205.71 228.499  
 F 100mm (F&W) = 205.91

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

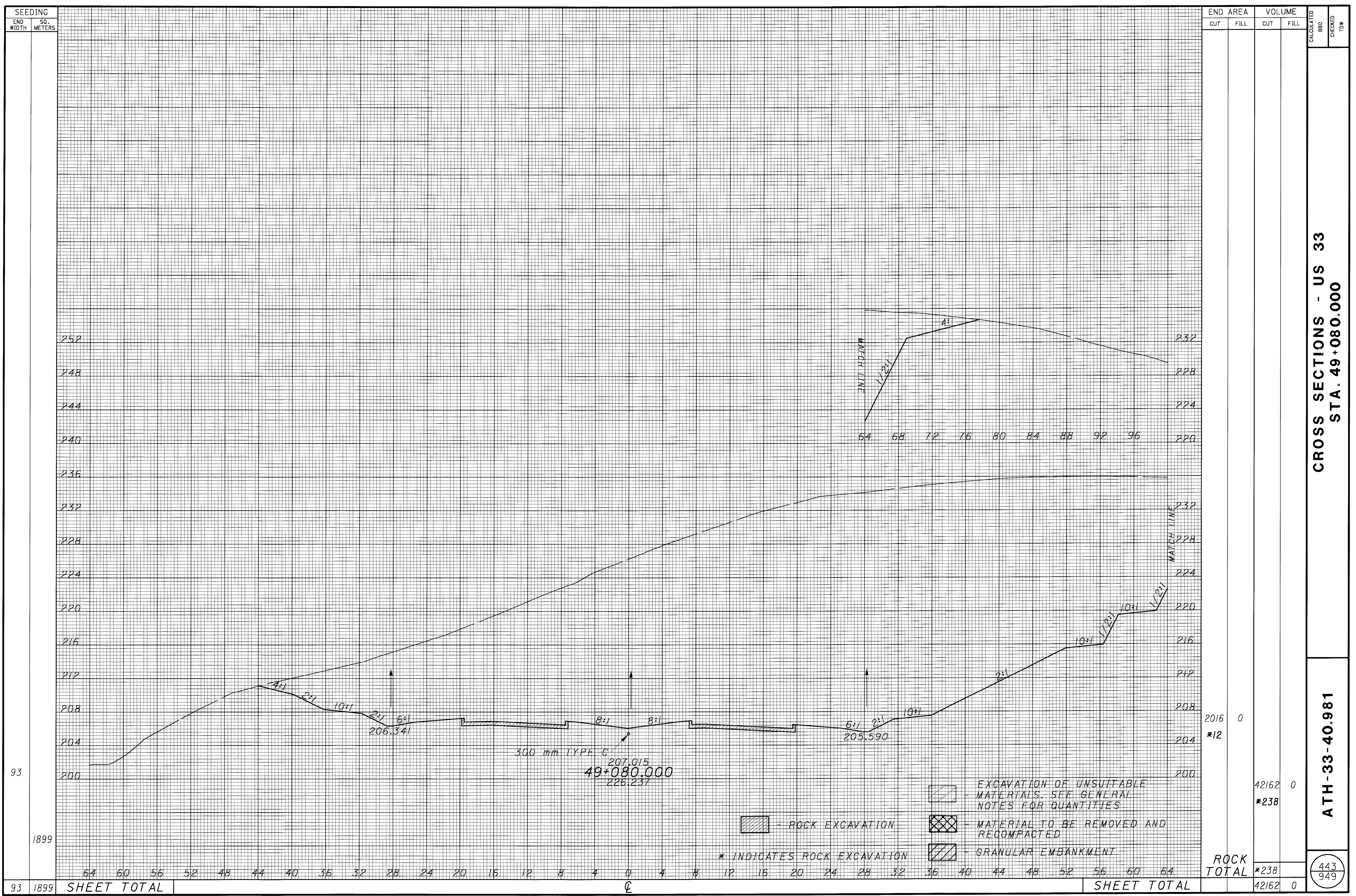
END AREA	VOLUME		CALCULATED BED	CHECKED TOW
	CUT	FILL		
2200	0			
*12				
			43874	0
			*238	
ROCK TOTAL			*238	
SHEET TOTAL			43874	0

CROSS SECTIONS - US 33  
 STA. 49+060.000

ATH - 33 - 40.981

442  
 949

08/07/2001  
 08:28:44  
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SEEDING	
END WIDTH	SO. METERS
93	1899
<b>SHEET TOTAL</b>	

END AREA	VOLUME	CALCULATED	CHECKED
2016	0		
*12		42162	0
		*238	
<b>ROCK TOTAL</b>		*238	
<b>SHEET TOTAL</b>		42162	0

CROSS SECTIONS - US 33  
 STA. 49+080.000

ATH-33-40.981

443  
 949

02/07/2001  
05:29:23 PM  
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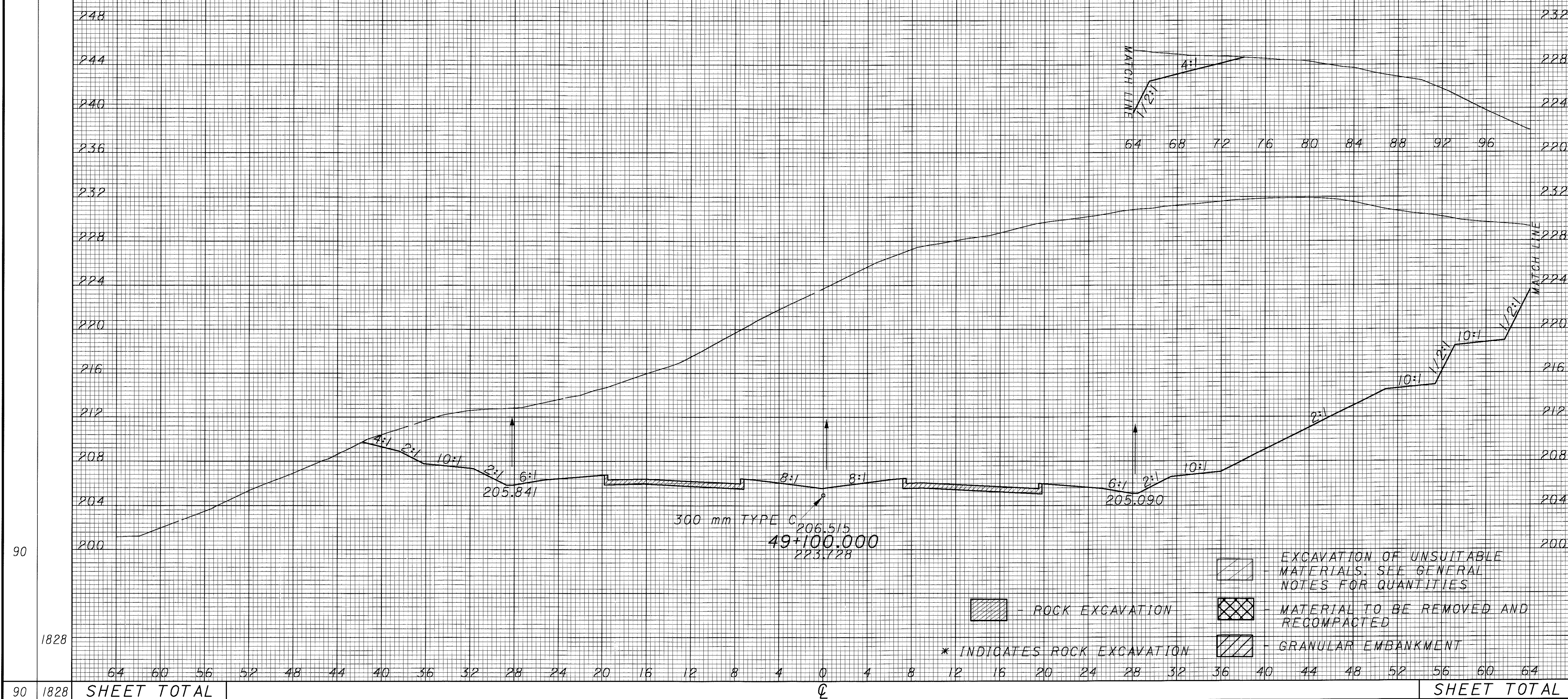
SEEDING  
END SO.  
WIDTH METERS

END AREA		VOLUME		CALCULATED BY	CHECKED BY	TDW
CUT	FILL	CUT	FILL			
1682	0					
*12						
		36982	0			
		*238				
ROCK TOTAL		*238				
		36982	0			

CROSS SECTIONS - US 33  
STA. 49+100.000

ATH-33-40.981

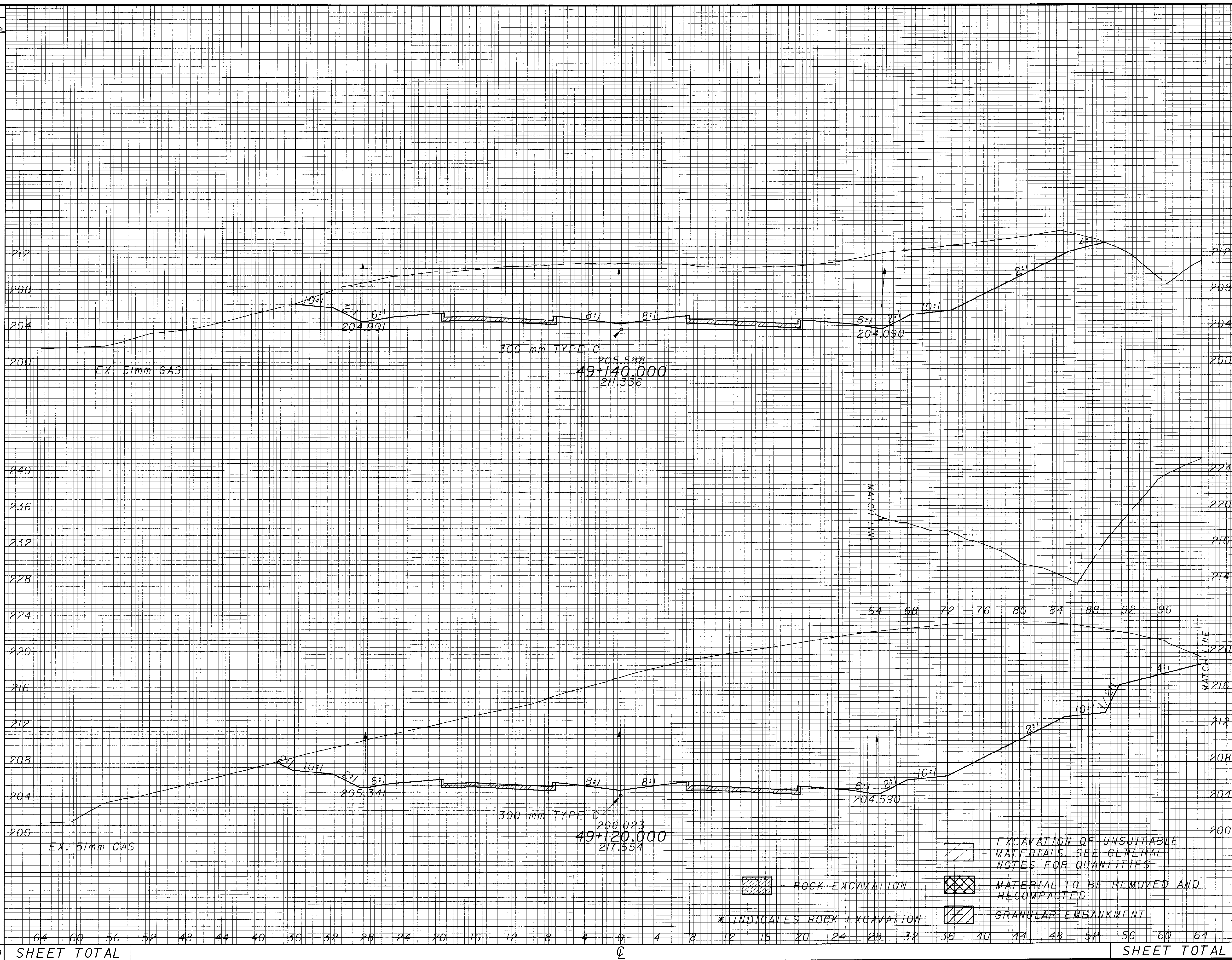
444  
949



STATION	64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64			
ELEVATION	200	202	204	206	208	210	212	214	216	218	220	222	224	226	228	230	232	234	236	238	240	242	244	246	248	248	248	248	248	248	248	248	248	248		
AREA																																				
VOLUME																																				
TOTAL	1682																0																			
ROCK TOTAL	*12																																			
SHEET TOTAL	36982																0																			

02/07/2001  
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SEEDING	
END WIDTH	SO. METERS
68	49+140.000
1487	49+120.000
81	49+120.000
1703	
149	3190



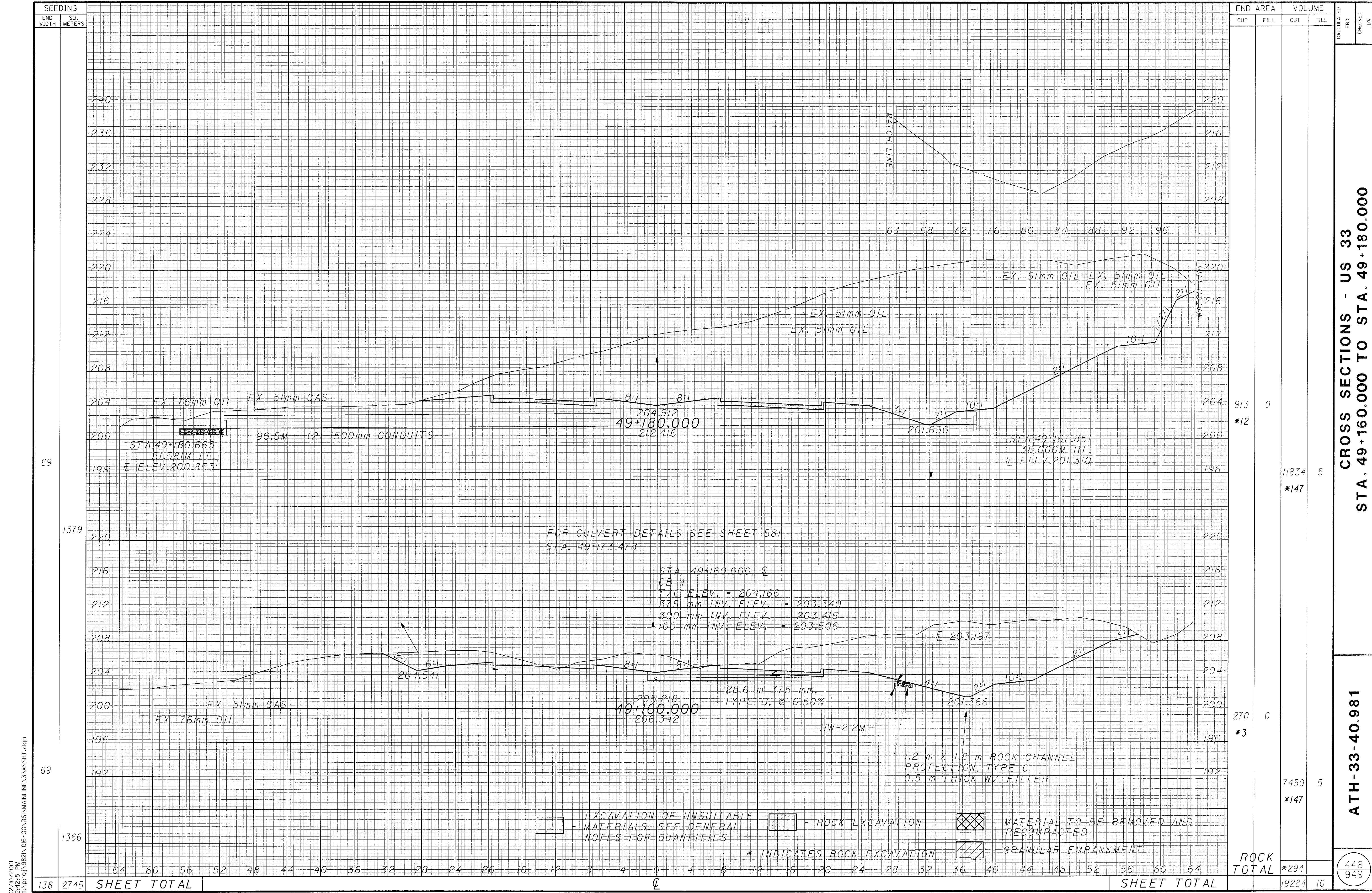
END AREA	VOLUME	
	CUT	FILL
475	0	
*12		
	15508	0
	*238	
1076	0	
*12		
	27582	0
	*238	
ROCK TOTAL	*476	
SHEET TOTAL	43090	0

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33  
 STA. 49+120.000 TO STA. 49+140.000

ATH-33-40.981

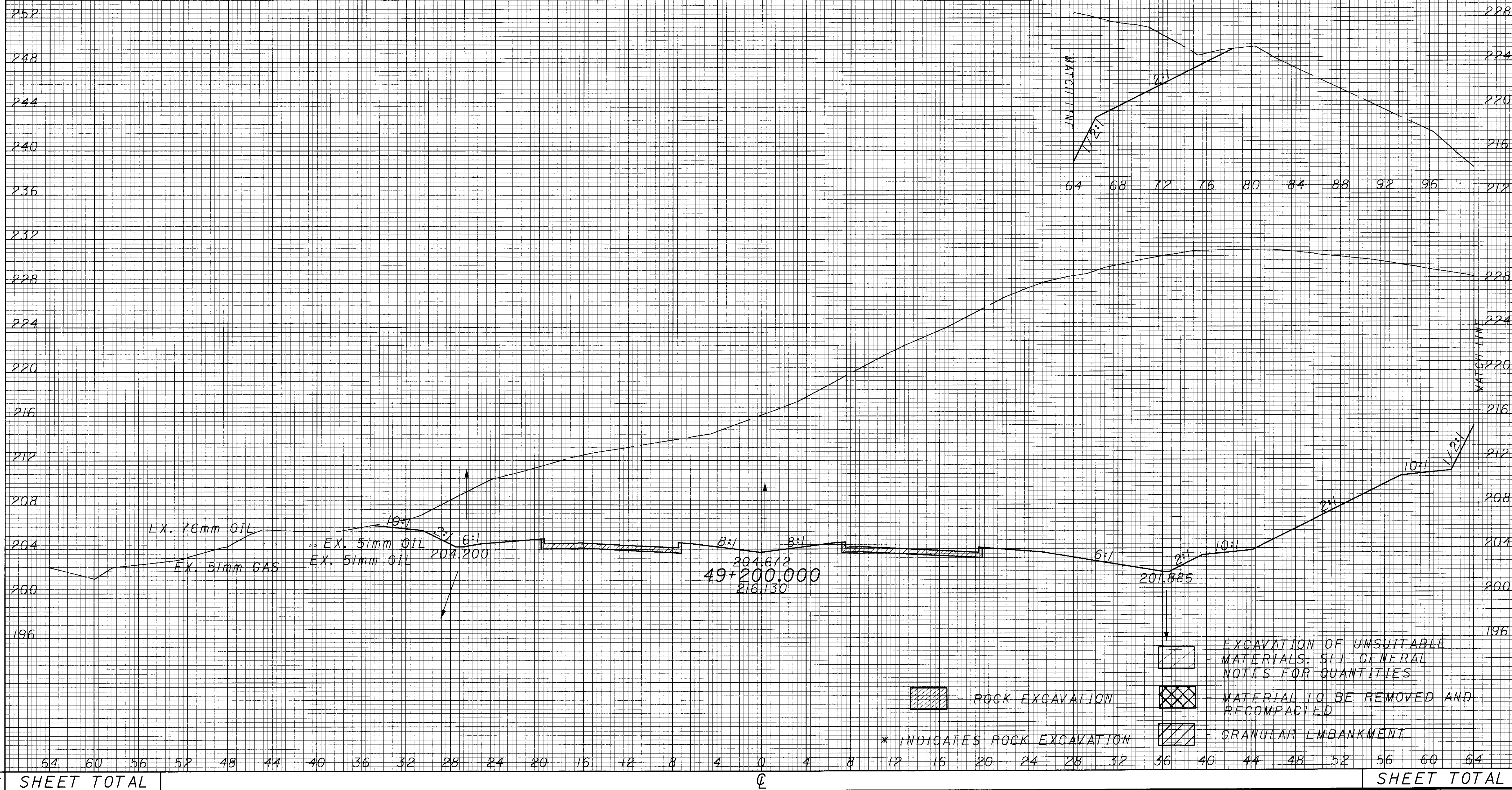
445  
 949



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02/07/2001 05:30:05 PM  
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SEEDING	
END WIDTH	SO. METERS
89	1587
1587	89



END AREA	VOLUME	CHECKED	TOWN				
				CUT	FILL	CUT	FILL
1706	0	*12		26191	0	*238	
<b>ROCK TOTAL</b>							
<b>SHEET TOTAL</b>				447	949		

CROSS SECTIONS - US 33  
STA. 49+200.000

ATH-33-40.981



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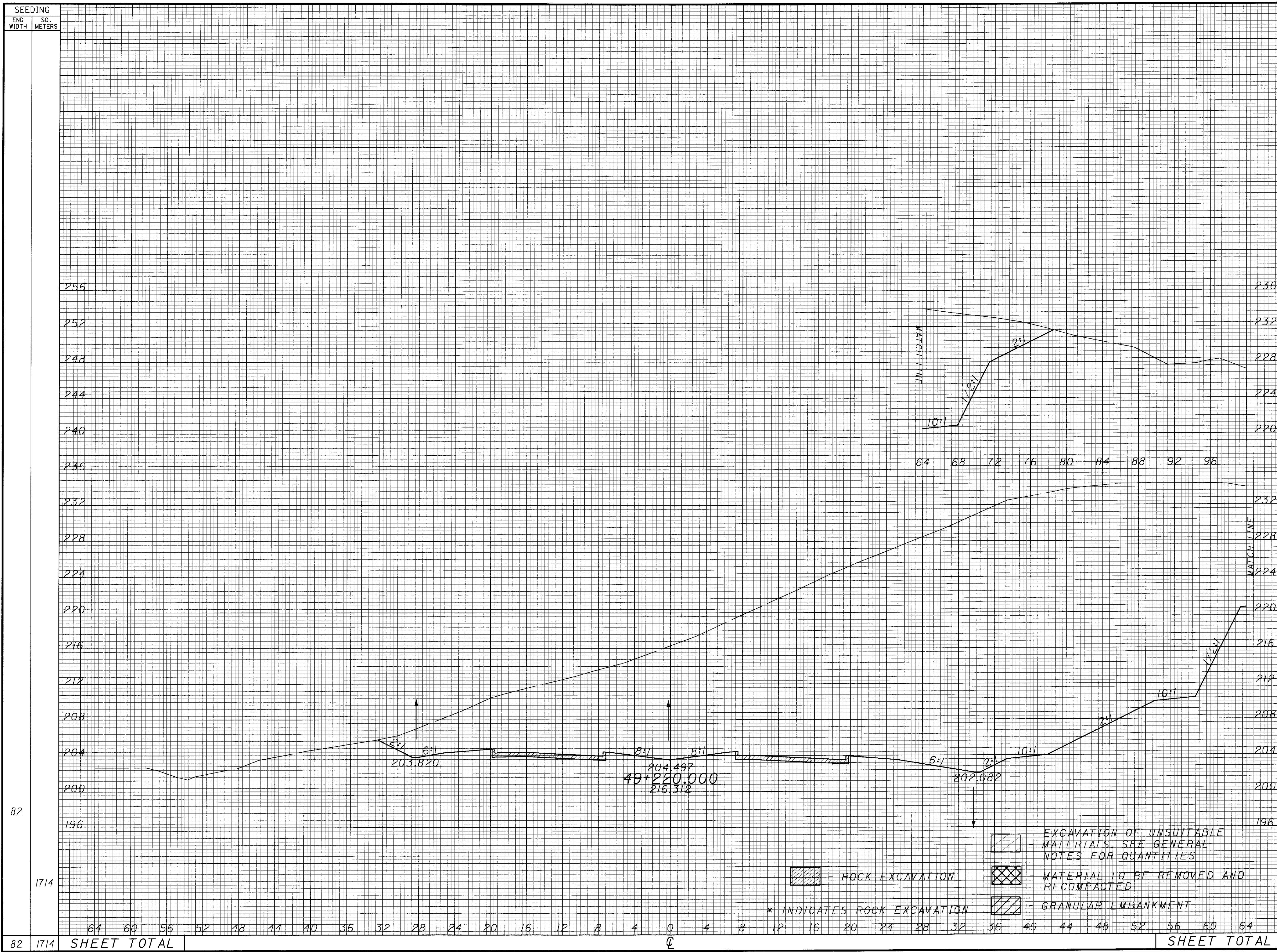
SEEDING	
END WIDTH	SQ. METERS
82	1714
<b>SHEET TOTAL</b>	

END AREA	VOLUME	CALCULATED	BBD	CHECKED	TDW
1774	0				
*12					
		34793	0		
		*238			
<b>ROCK TOTAL</b>		*238			
		34793	0		

CROSS SECTIONS - US 33  
STA. 49+220.000

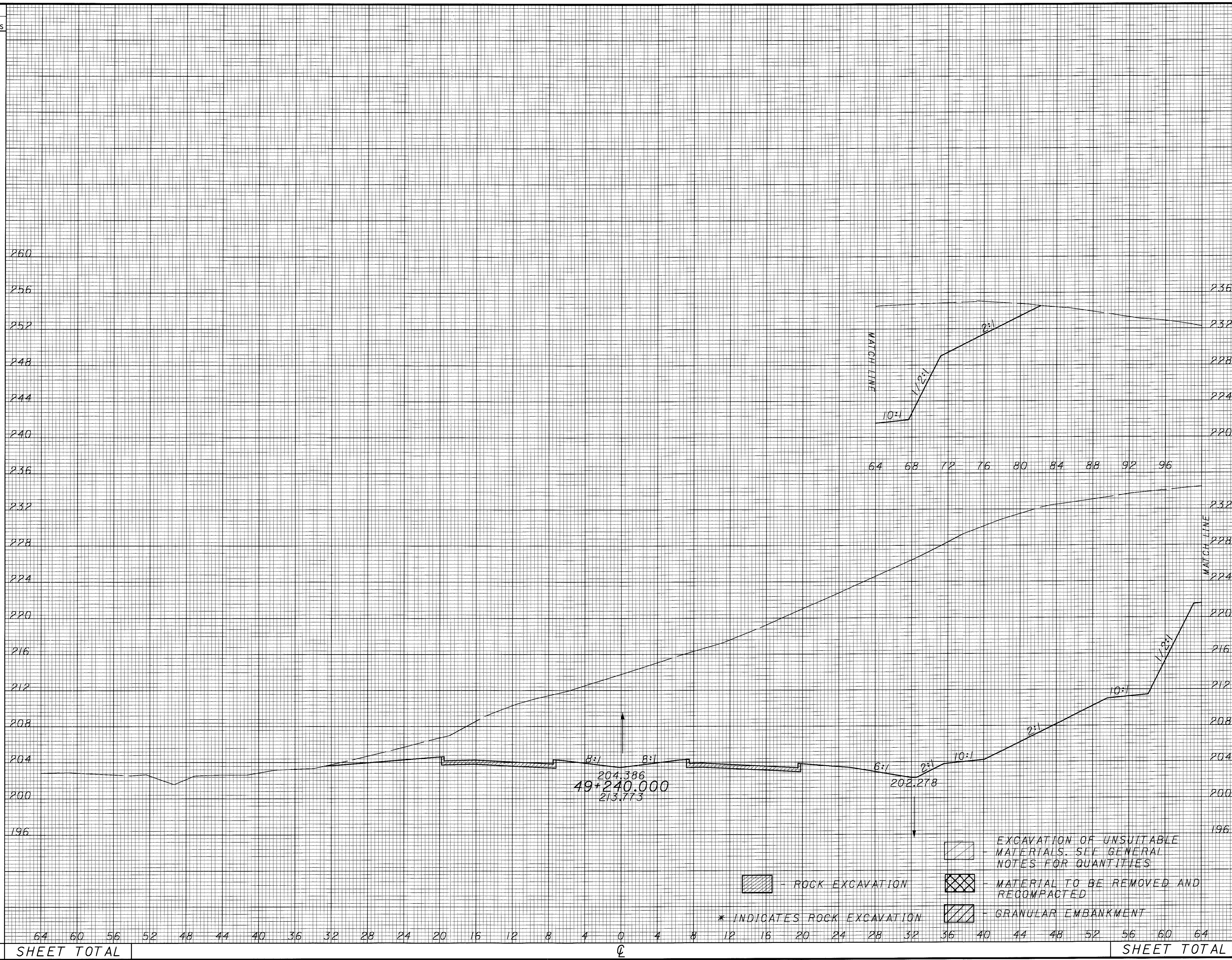
ATH-33-40.981

448  
949



02/07/2001  
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SEEDING	
END WIDTH	SO. METERS
86	1681
SHEET TOTAL	



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
1504	0			
*12				
			32779	0
			*238	
ROCK TOTAL			*238	
			32779	0

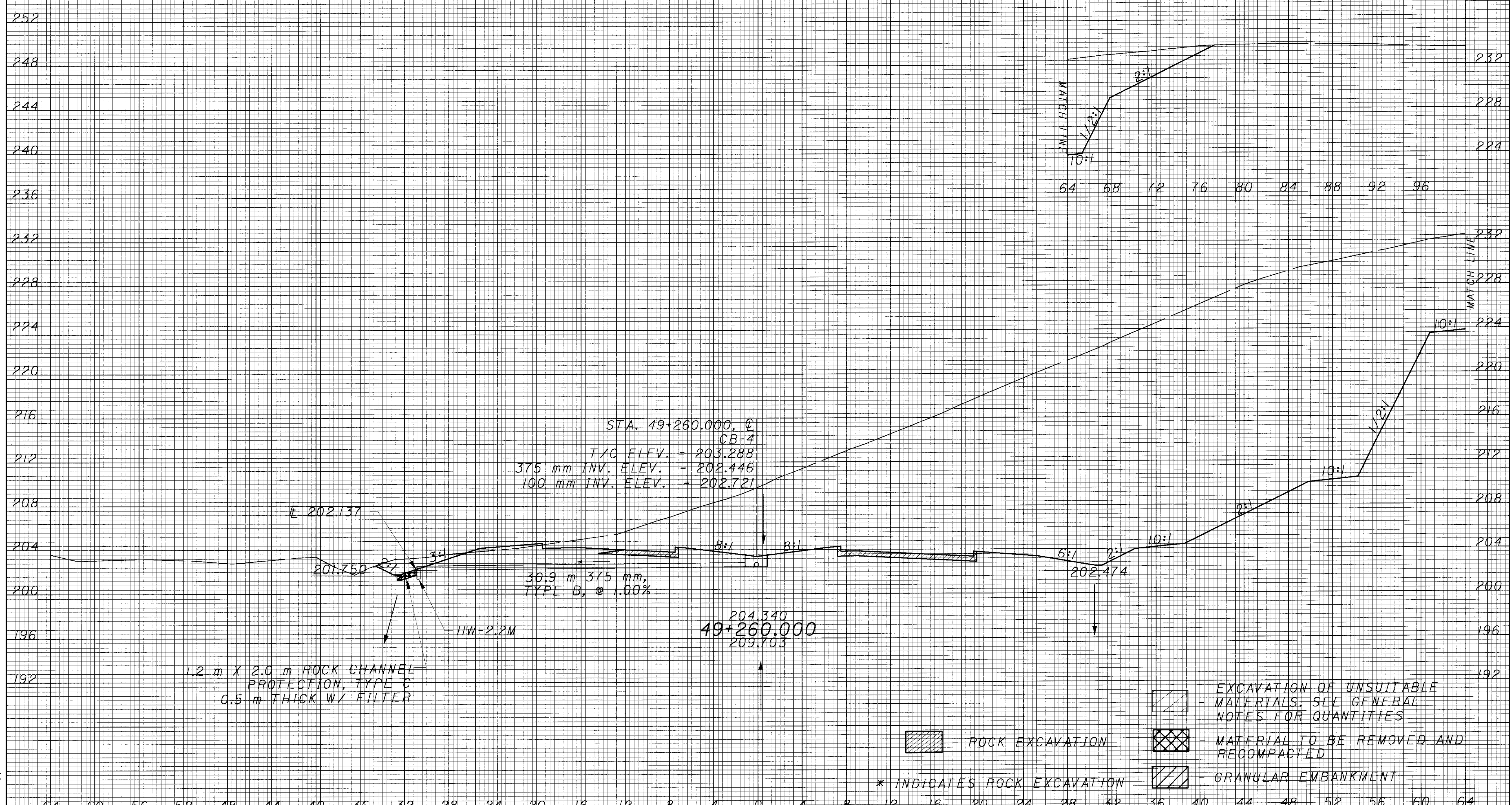
CROSS SECTIONS - US 33  
 STA. 49+240.000

ATH-33-40.981

449  
 949

SEEDING  
END SQ.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



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CROSS SECTIONS - US 33  
STA. 49+260.000

ATH-33-40.981

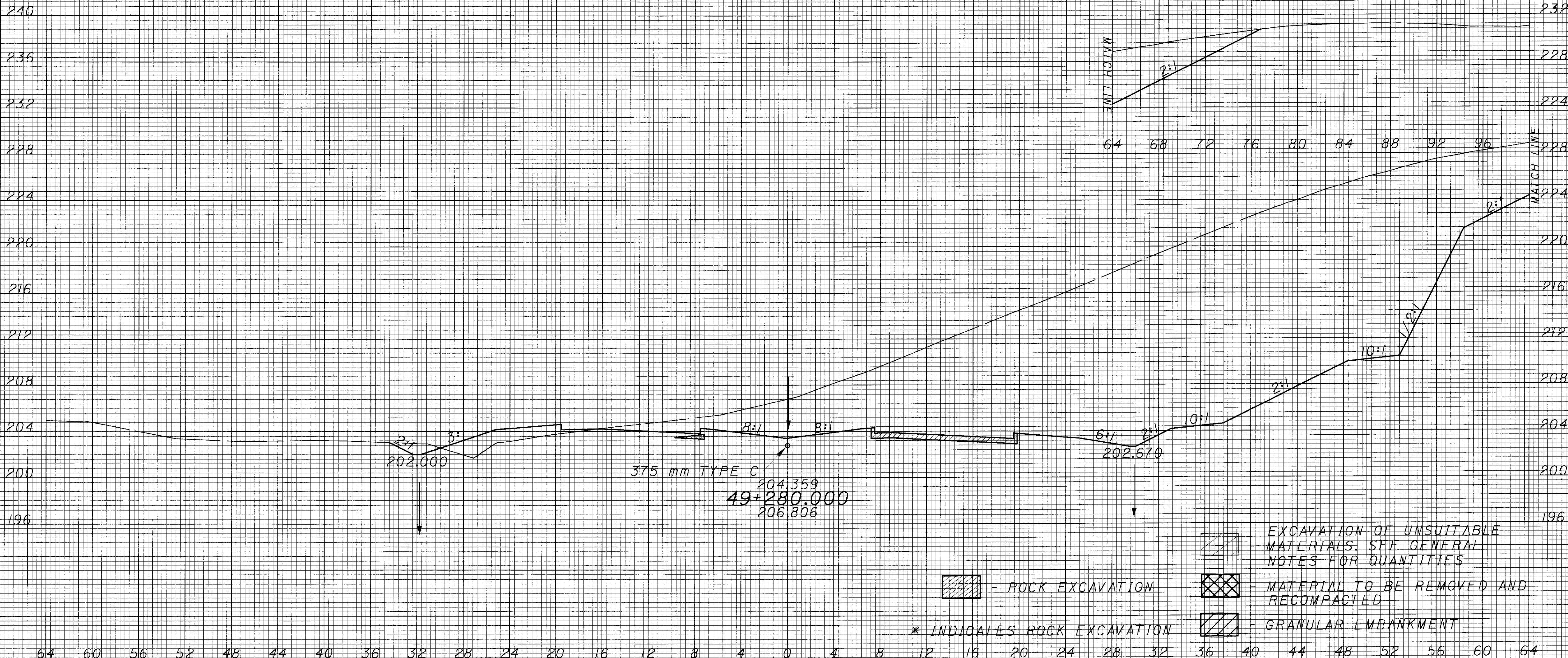
82 1685 SHEET TOTAL

ROCK TOTAL \*207 450  
25911 16 949

450  
949

SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW



- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

783	12
*7	
18701	134
*148	
ROCK TOTAL	
*148	
18701	134

CROSS SECTIONS - US 33  
STA. 49+280.000

ATH-33-40.981

451  
949

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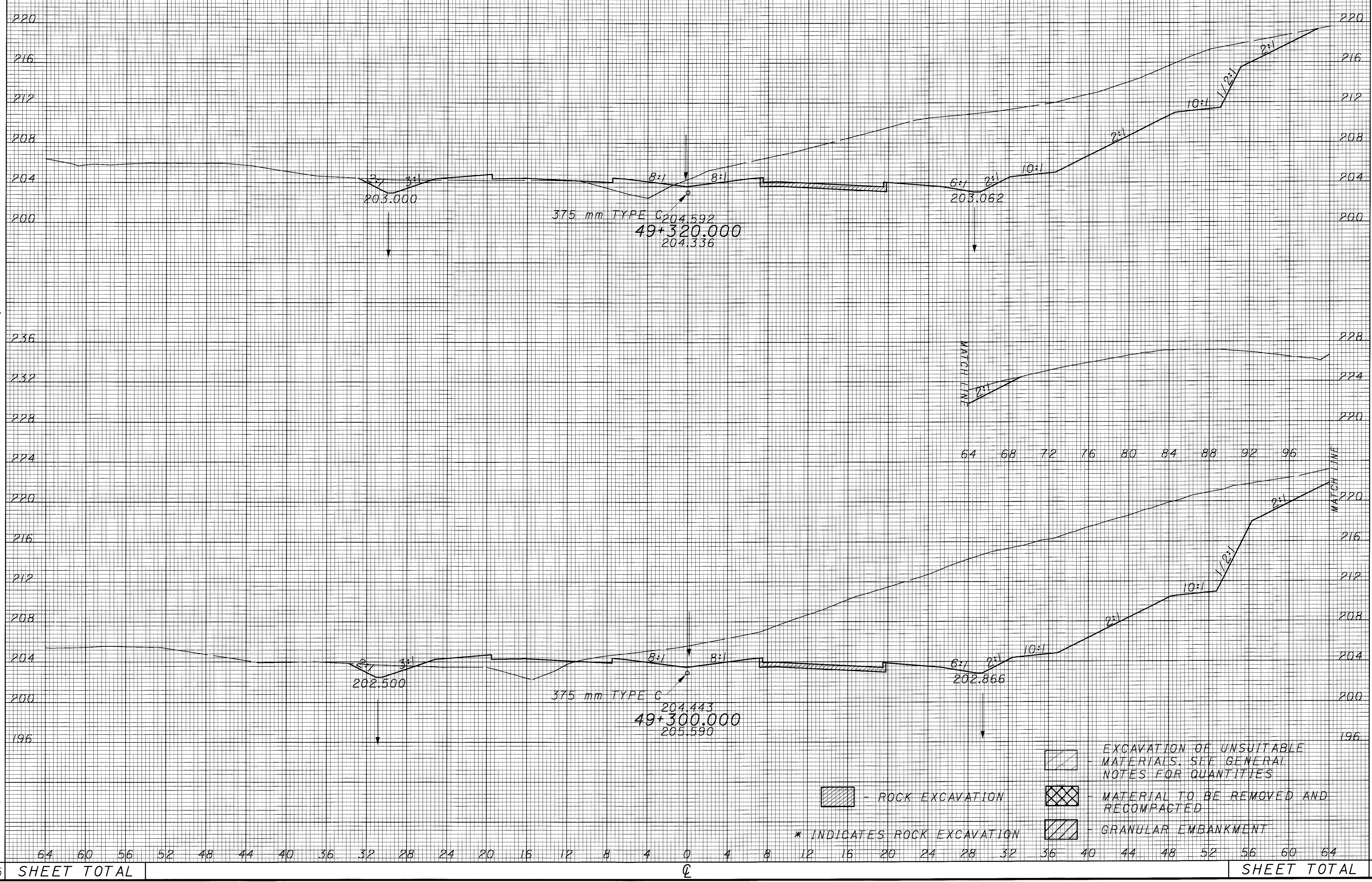
86 1687 SHEET TOTAL

SHEET TOTAL

Q

02/07/2001  
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SEEDING	
END WIDTH	SQ. METERS
73	
1527	
80	
1658	
153	3185



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
293	12			
*6				
		7828	288	
		*119		
489	17			
*6				
		12728	286	
		*119		
ROCK TOTAL		*238		
		20556	574	

CROSS SECTIONS - US 33  
STA. 49+300.000 TO STA. 49+320.000

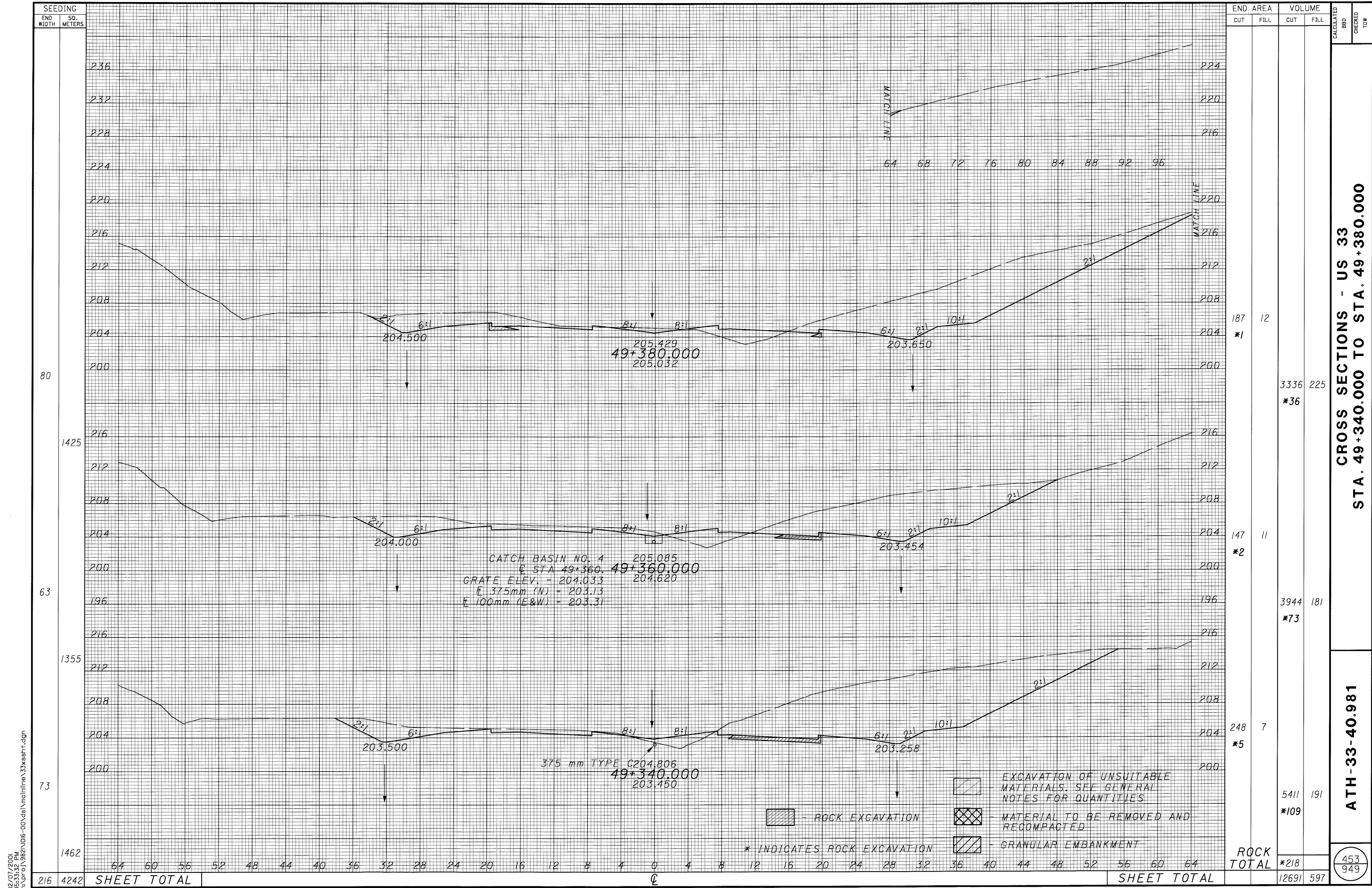
ATH-33-40.981

452  
949

SHEET TOTAL

SHEET TOTAL

- \* INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT



SEEDING	
END WIDTH	SO. METERS
216	4242
80	
1425	
63	
1355	
73	
1462	
216	4242

END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
187	12			
*1				
		3336	225	
		*36		
147	11			
*2				
		3944	181	
		*73		
248	7			
*5				
		5411	191	
		*109		
ROCK TOTAL	*218			
		12691	597	

**CROSS SECTIONS - US 33**  
**STA. 49+340.000 TO STA. 49+380.000**

**ATH-33-40.981**

453  
 949

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SHEET TOTAL

SHEET TOTAL

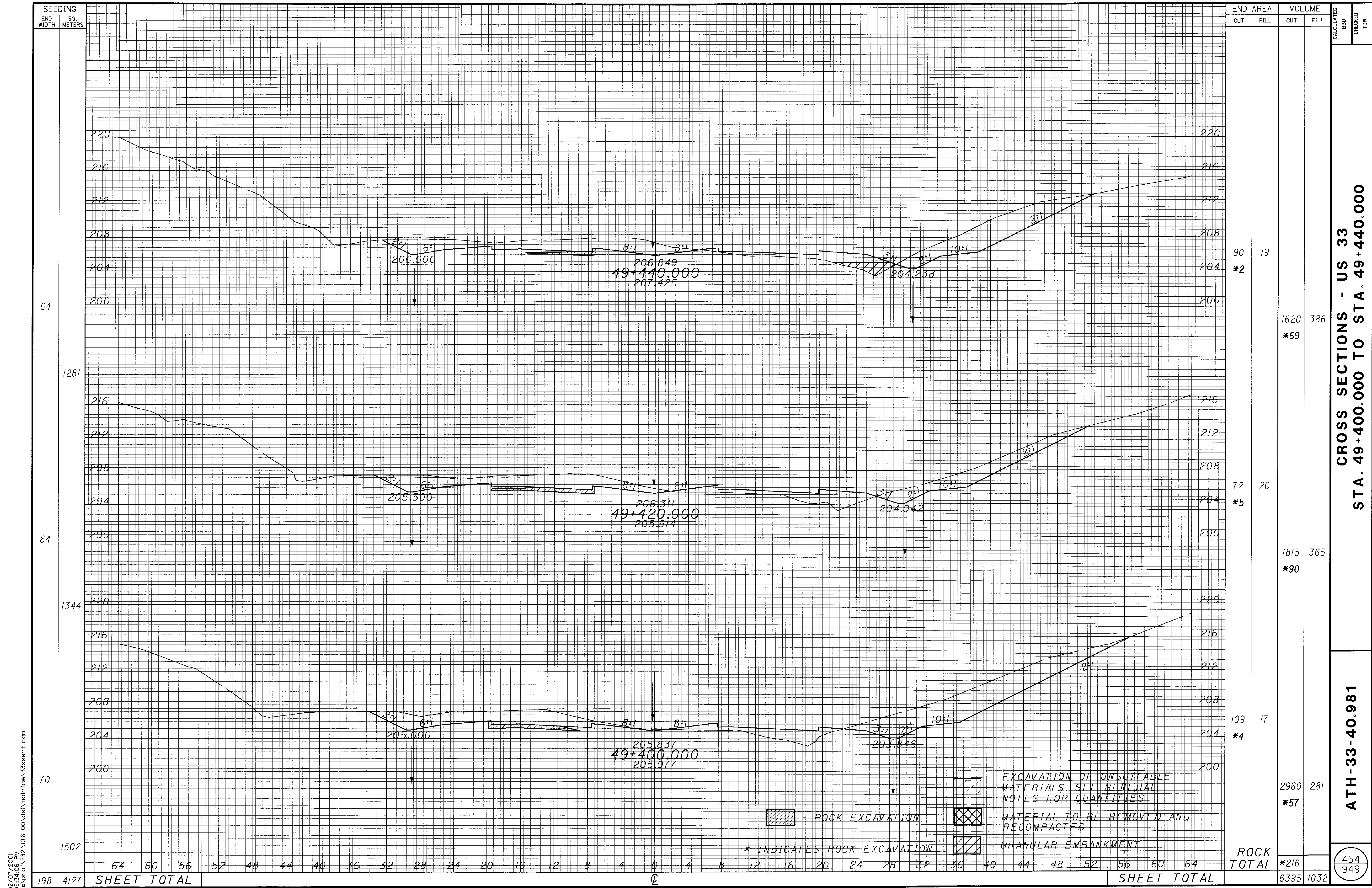
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- \* INDICATES ROCK EXCAVATION

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

375 mm TYPE C 204.806  
 49+340.000  
 203.450

CATCH BASIN NO. 4 205.085  
 @ STA 49+360. 49+360.000  
 GRATE ELEV. - 204.033 204.620  
 @ 375mm (N) - 203.13  
 @ 100mm (E&W) - 203.31

205.429  
 49+380.000  
 205.032



SEEDING	
END WIDTH	SO. METERS
64	200
64	204
64	208
64	212
64	216
64	220
70	200
70	204
70	208
70	212
70	216
70	220
1502	200
1502	204
1502	208
1502	212
1502	216
1502	220

END AREA	VOLUME	CALCULATED	CHECKED
90	19		
*2			
		1620	386
		*69	
72	20		
*5			
		1815	365
		*90	
109	17		
*4			
		2960	281
		*57	
ROCK TOTAL		*216	
		6395	1032

**CROSS SECTIONS - US 33**  
**STA. 49+400.000 TO STA. 49+440.000**

**ATH-33-40.981**

454  
 949

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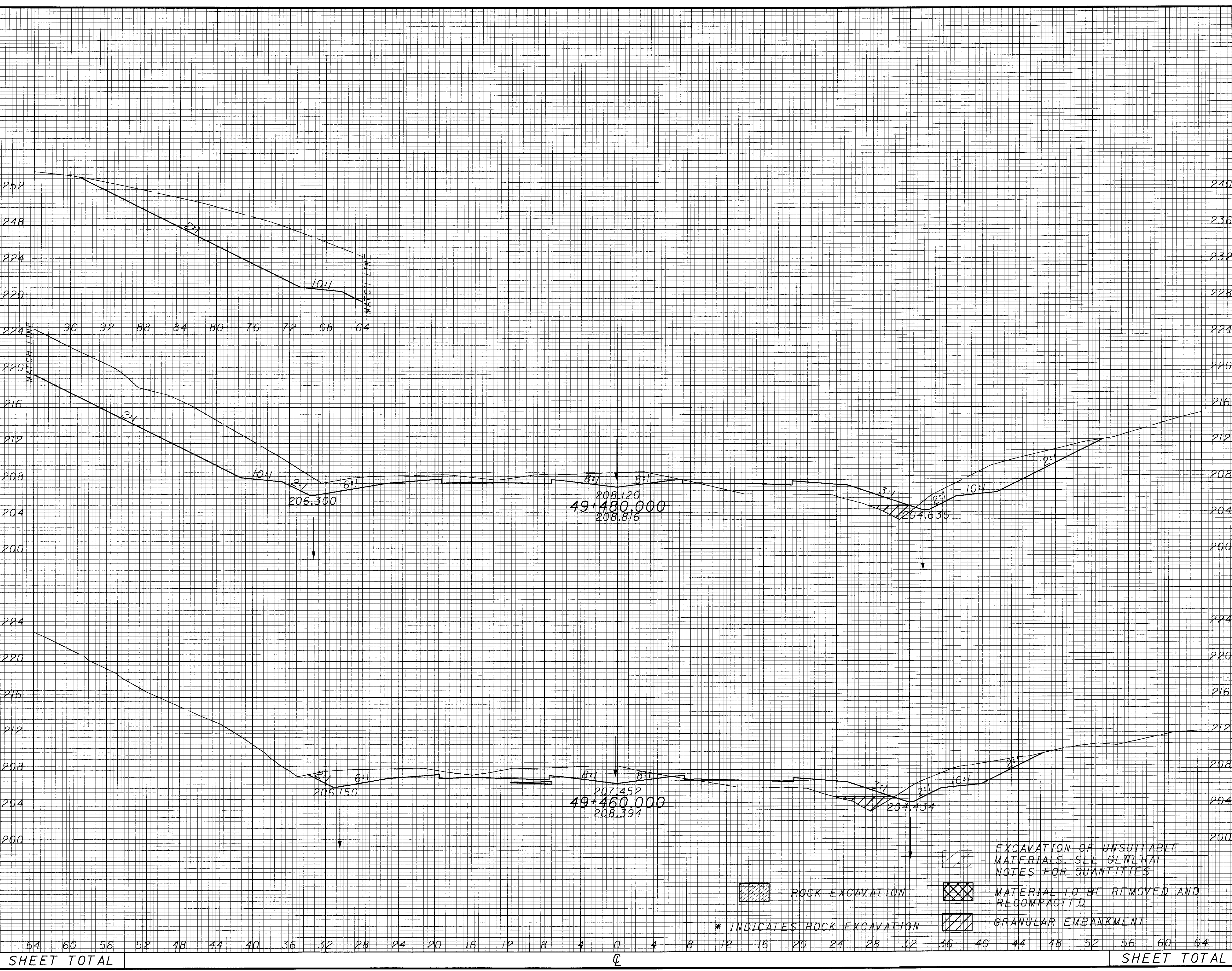
198 4127 SHEET TOTAL

SHEET TOTAL

Q

02/07/2001  
06:37:40 PM  
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SEEDING	
END WIDTH	SQ. METERS
192	3144



END AREA	VOLUME	CALCULATED	CHECKED
325	28		
*0		3908	515
66	24		
*1		1552	424
<b>ROCK TOTAL</b>		*40	
<b>SHEET TOTAL</b>		5460	939

CROSS SECTIONS - US 33  
STA. 49+460.000 TO STA. 49+480.000

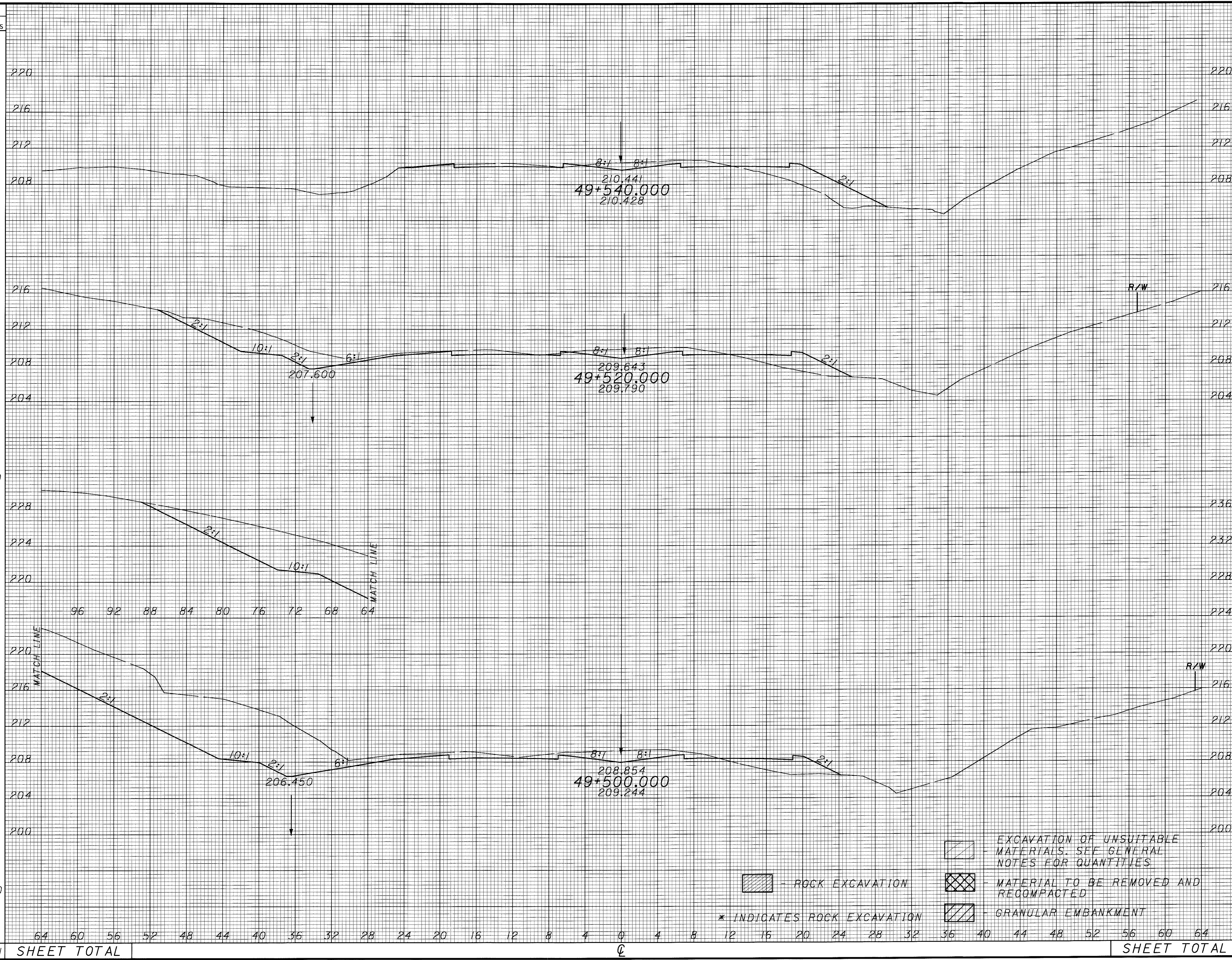
ATH-33-40.981

455  
949



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SEEDING	
END WIDTH	SO. METERS
31	210
861	216
55	208
1500	228
95	208
2280	200
181	4641



END AREA	VOLUME	
	CUT	FILL
12	24	
616	383	
50	14	
3236	280	
274	14	
5987	416	
ROCK TOTAL		
9839	1079	

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- ROCK EXCAVATION
- \* INDICATES ROCK EXCAVATION

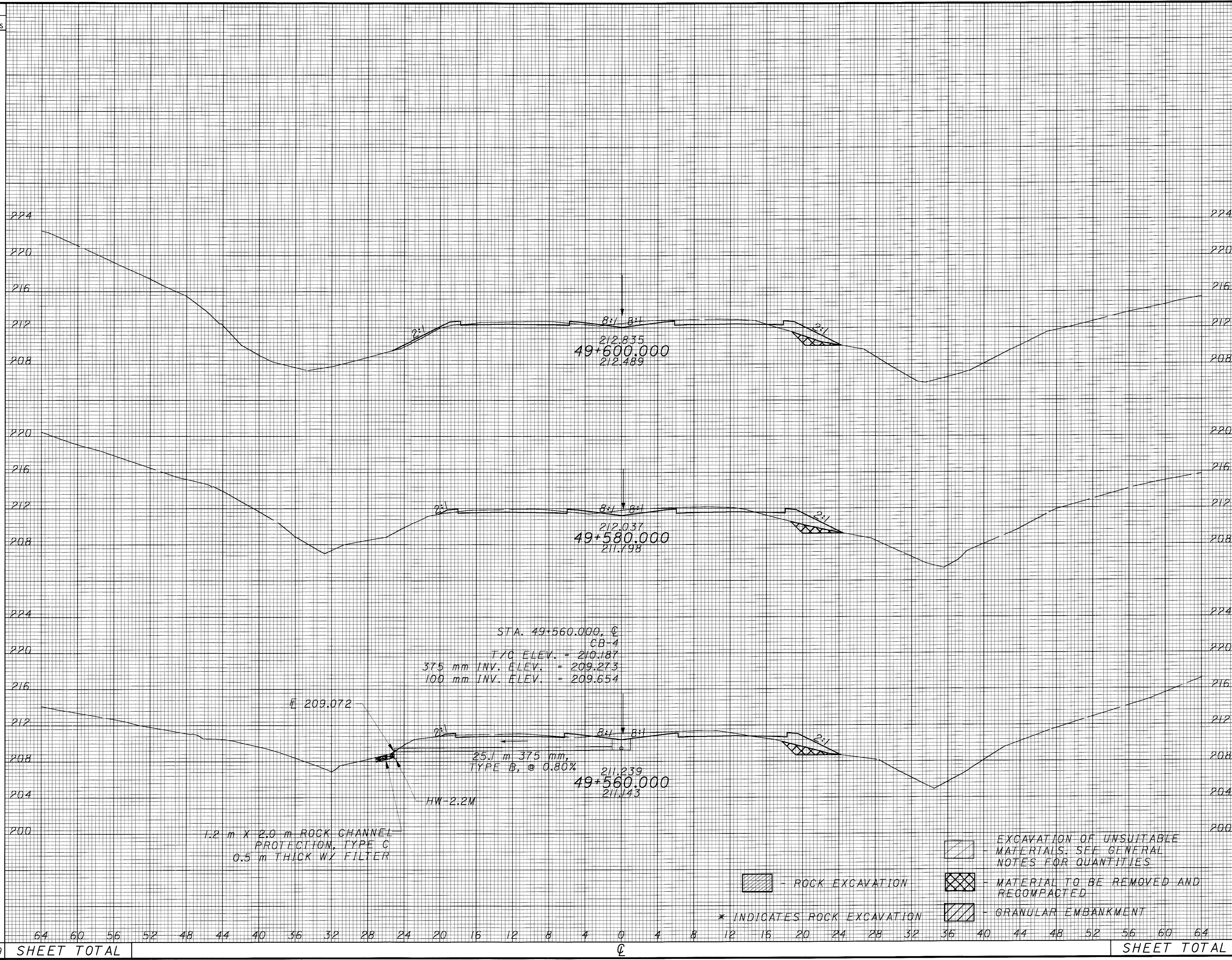
CROSS SECTIONS - US 33  
 STA. 49+500.000 TO STA. 49+540.000

ATH-33-40.981

CALCULATED BBO  
 CHECKED TDW  
 456  
 949

02/07/2001  
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SEEDING	
END WIDTH	SO. METERS
69	1429
27	
21	
21	
521	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
13	11	270	220
14	11	270	210
13	10	250	340
ROCK TOTAL			
SHEET TOTAL		790	770

CROSS SECTIONS - US 33  
 STA. 49+560.000 TO STA. 49+600.000

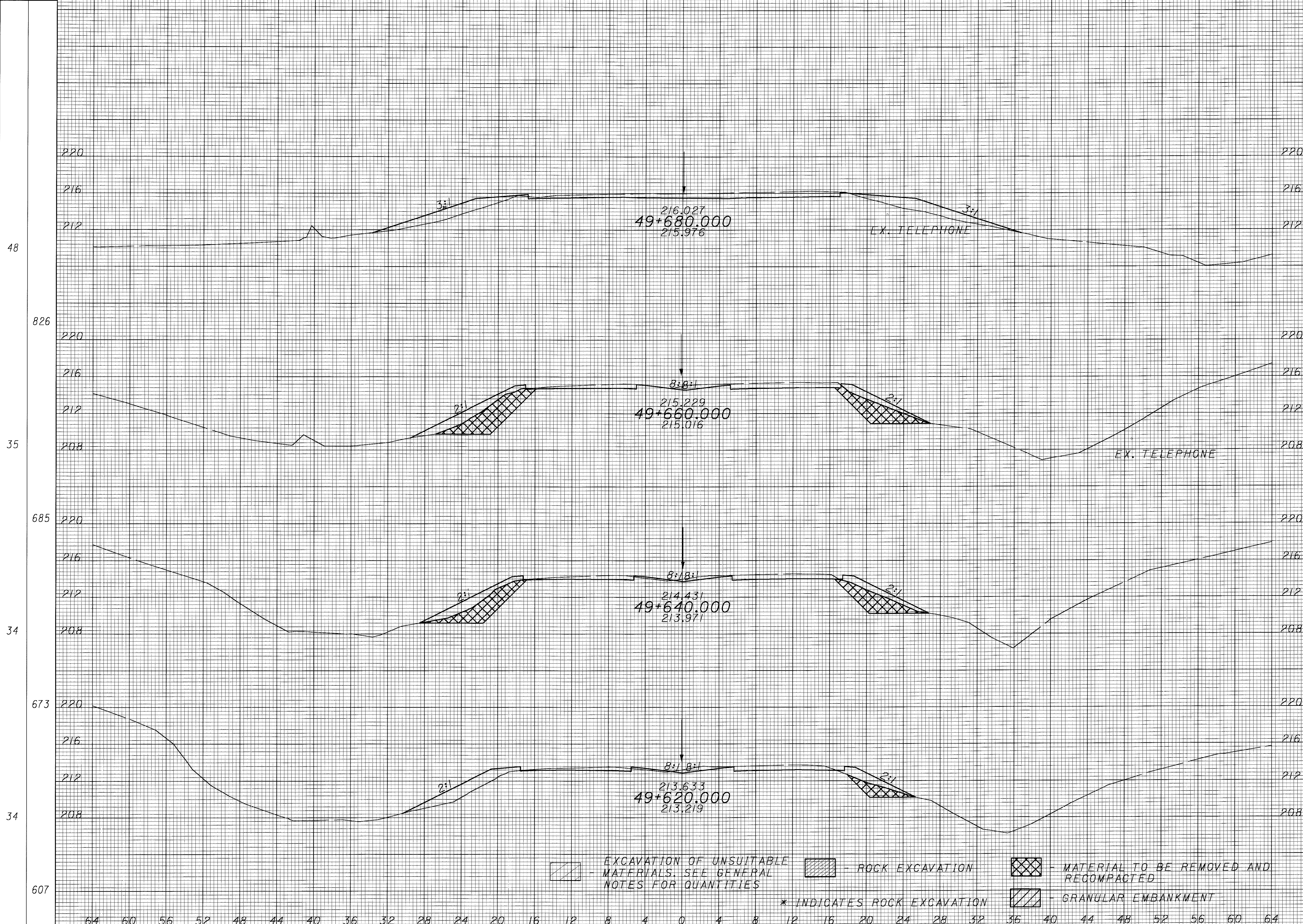
ATH-33-40.981

457  
 949

SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL

CALCULATED  
BDD  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
13	26
43	46
36	41
16	24
ROCK TOTAL	
2160	2590

CROSS SECTIONS - US 33  
 STA. 49+620.000 TO STA. 49+680.000

ATH-33-40.981

458  
949

02/07/2001  
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151 2791 SHEET TOTAL

SHEET TOTAL

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 ROCK EXCAVATION  
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 GRANULAR EMBANKMENT  
 \* INDICATES ROCK EXCAVATION

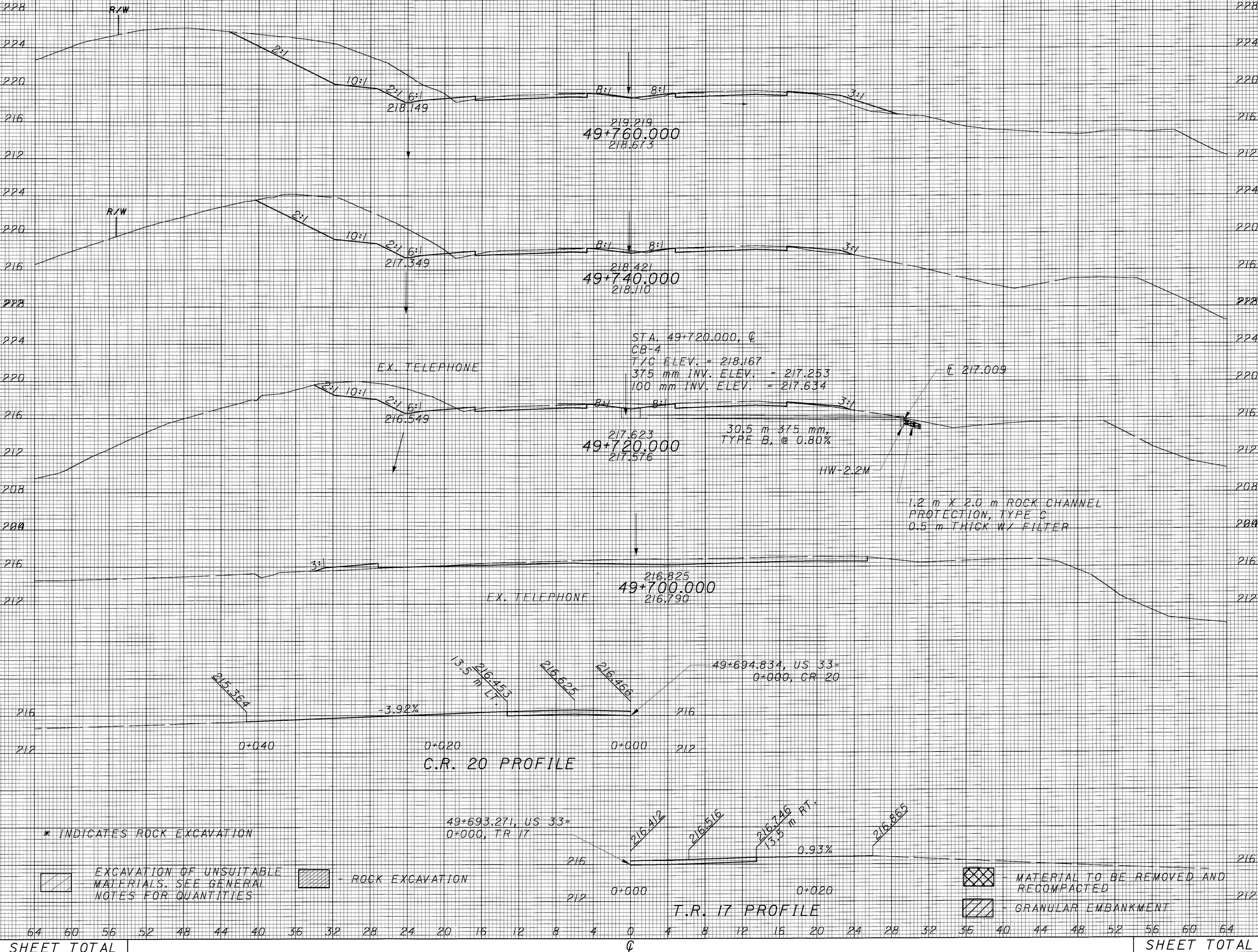
64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64

Q

SEEDING  
END WIDTH SQ. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBO  
CHECKED  
TDW

59  
1100  
51  
925  
42  
806  
39  
864  
191 3695  
SHEET TOTAL



END AREA	VOLUME
CUT	FILL
90	12
84	6
44	4
22	4
354	300
1742	176
1280	97
ROCK TOTAL	
4039	654

CROSS SECTIONS - US 33  
STA. 49+700.000 TO STA. 49+760.000

ATH-33-40.981

459  
949

\* INDICATES ROCK EXCAVATION

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

ROCK EXCAVATION

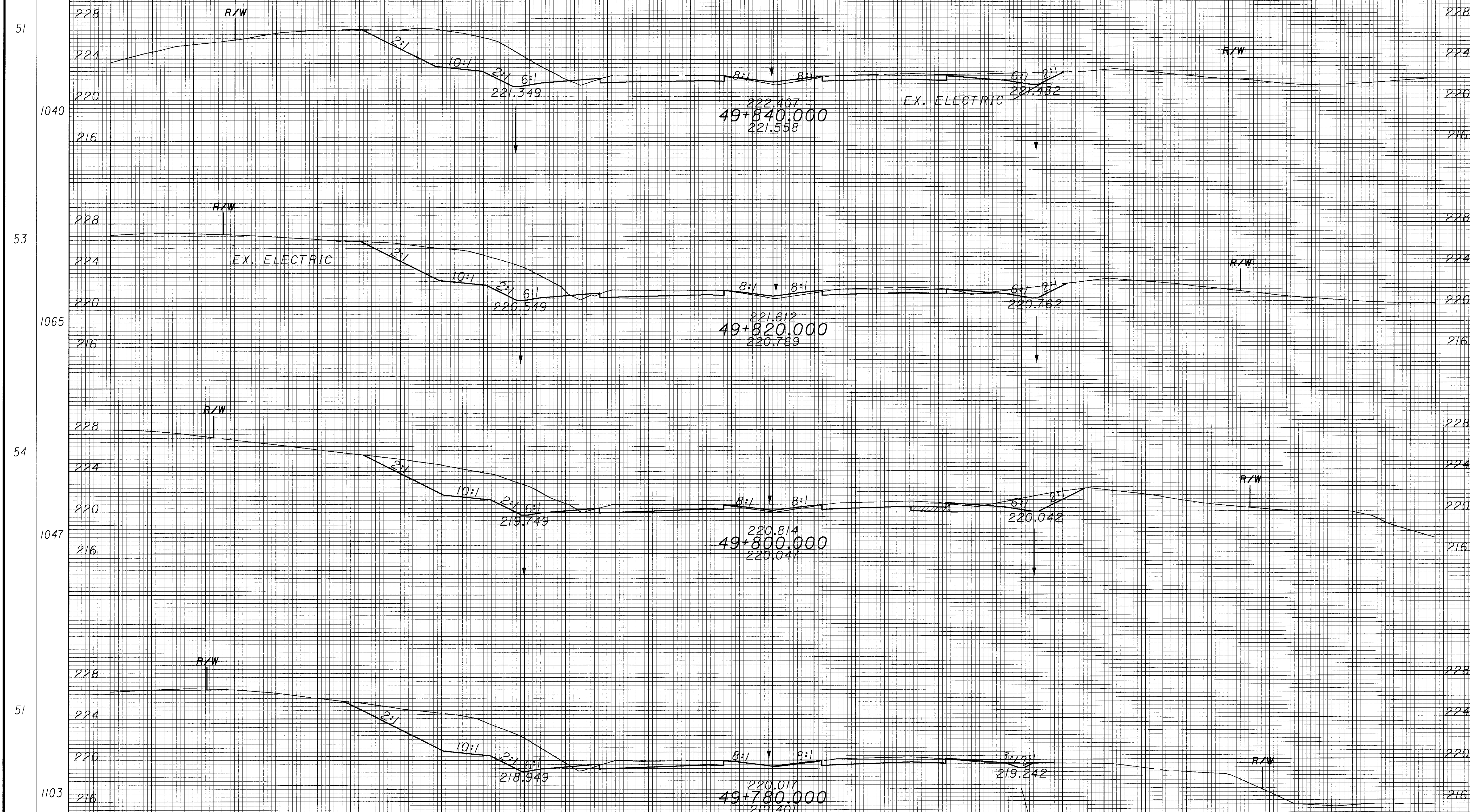
MATERIAL TO BE REMOVED AND RECOMPACTED

GRANULAR EMBANKMENT

02/07/2001 02:46:47 PM m:\p\01\982\016-00\dss\mainline\33\ssht.dgn

SEEDING  
END WIDTH SO. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBO  
CHECKED  
TDW



END AREA	VOLUME
CUT	FILL
84	0
79	1
*0	
81	0
*2	
83	1
*0	
ROCK TOTAL	
*40	
6605	171

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES  
 \* INDICATES ROCK EXCAVATION  
 - ROCK EXCAVATION  
 - MATERIAL TO BE REMOVED AND RECOMPACTED  
 - GRANULAR EMBANKMENT

CROSS SECTIONS - US 33  
 STA. 49+780.000 TO STA. 49+840.000

ATH-33-40.981

460  
949

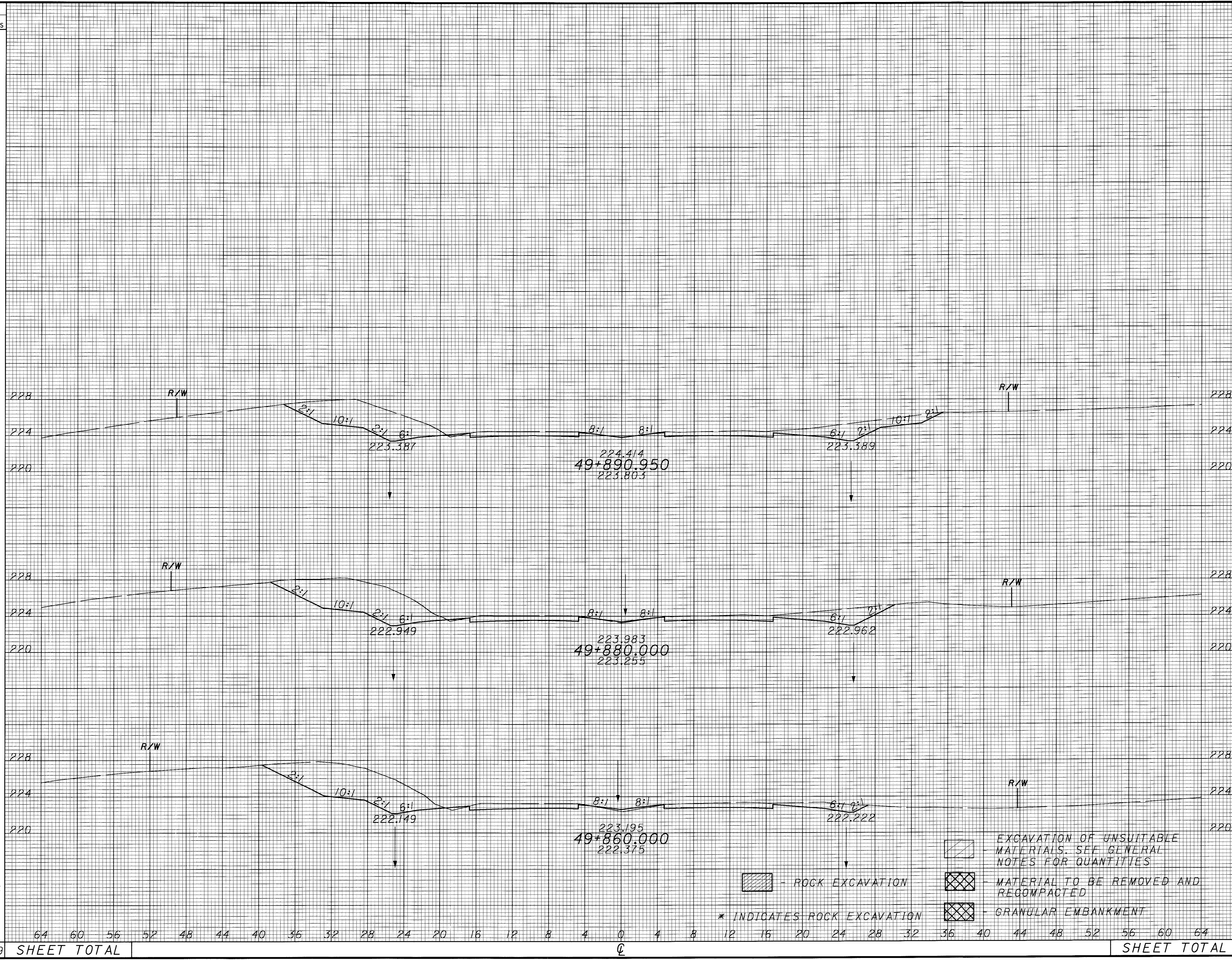
209 4255 SHEET TOTAL

SHEET TOTAL

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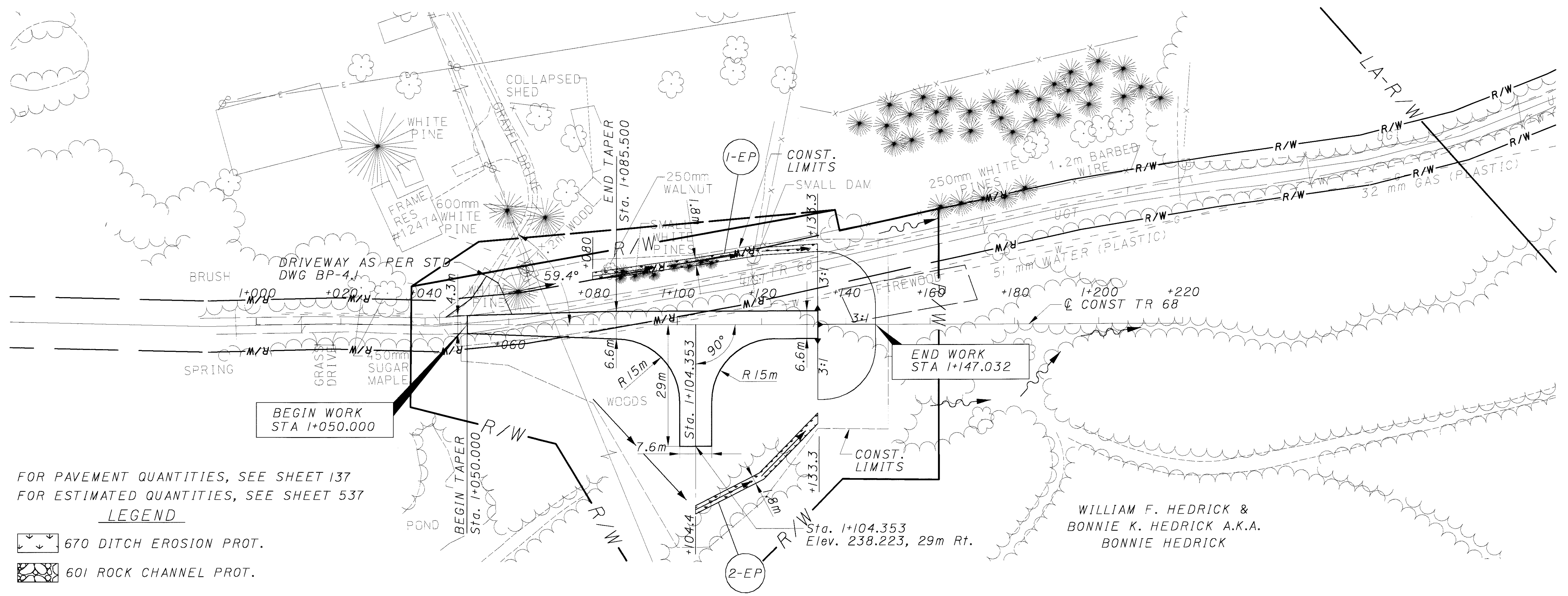
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SEEDING	
END WIDTH	SO. METERS
64	2609
60	
56	
52	
48	
44	
40	
36	
32	
28	
24	
20	
16	
12	
8	
4	
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	
44	
48	
52	
56	
60	
64	
<b>SHEET TOTAL</b>	



END AREA	VOLUME	
	CUT	FILL
87	0	
984	0	
1775	0	
85	0	
1685	3	
<b>ROCK TOTAL</b>		
4444	3	

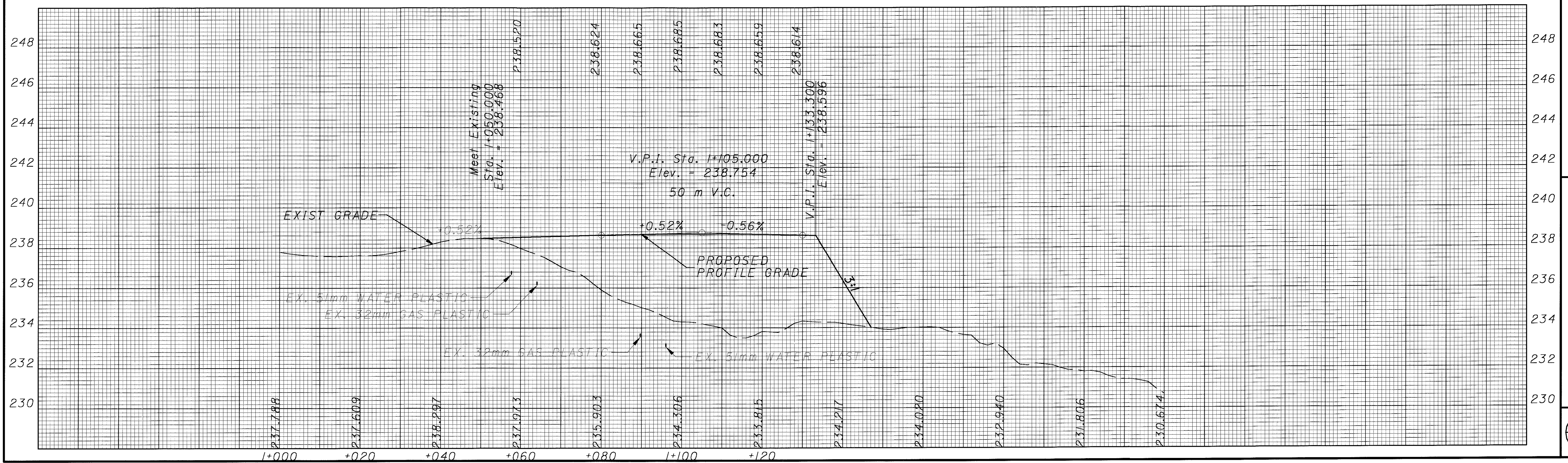
**CROSS SECTIONS - US 33**  
**STA. 49+860.000 TO STA. 49+890.950**  
**ATH-33-40.981**  
 CALCULATED BBO  
 CHECKED TDW  
 461  
 949



FOR PAVEMENT QUANTITIES, SEE SHEET 137
   
 FOR ESTIMATED QUANTITIES, SEE SHEET 537

**LEGEND**

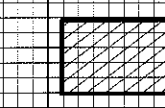
-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.



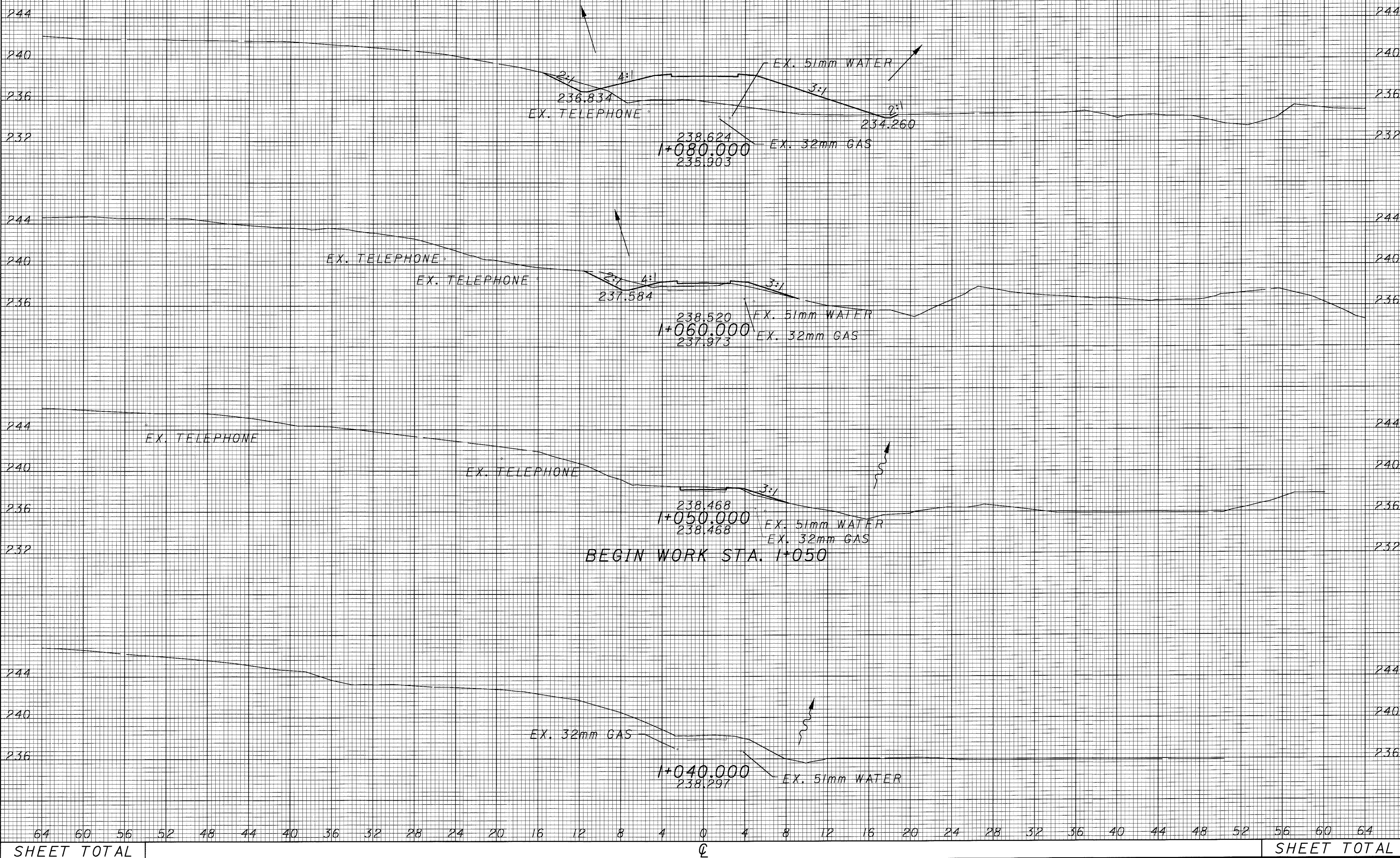
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SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BDD  
CHECKED  
TDW

 - ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION

29  
456  
16  
113  
6  
51 569



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
3		54		
4		583		
4		4		
25		24		
1		1		
0		0		
<b>SHEET TOTAL</b>			93	607

TR 68 CROSS SECTIONS  
STA. 1+040 TO STA. 1+080

ATH-33-40.981

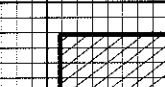
463  
949

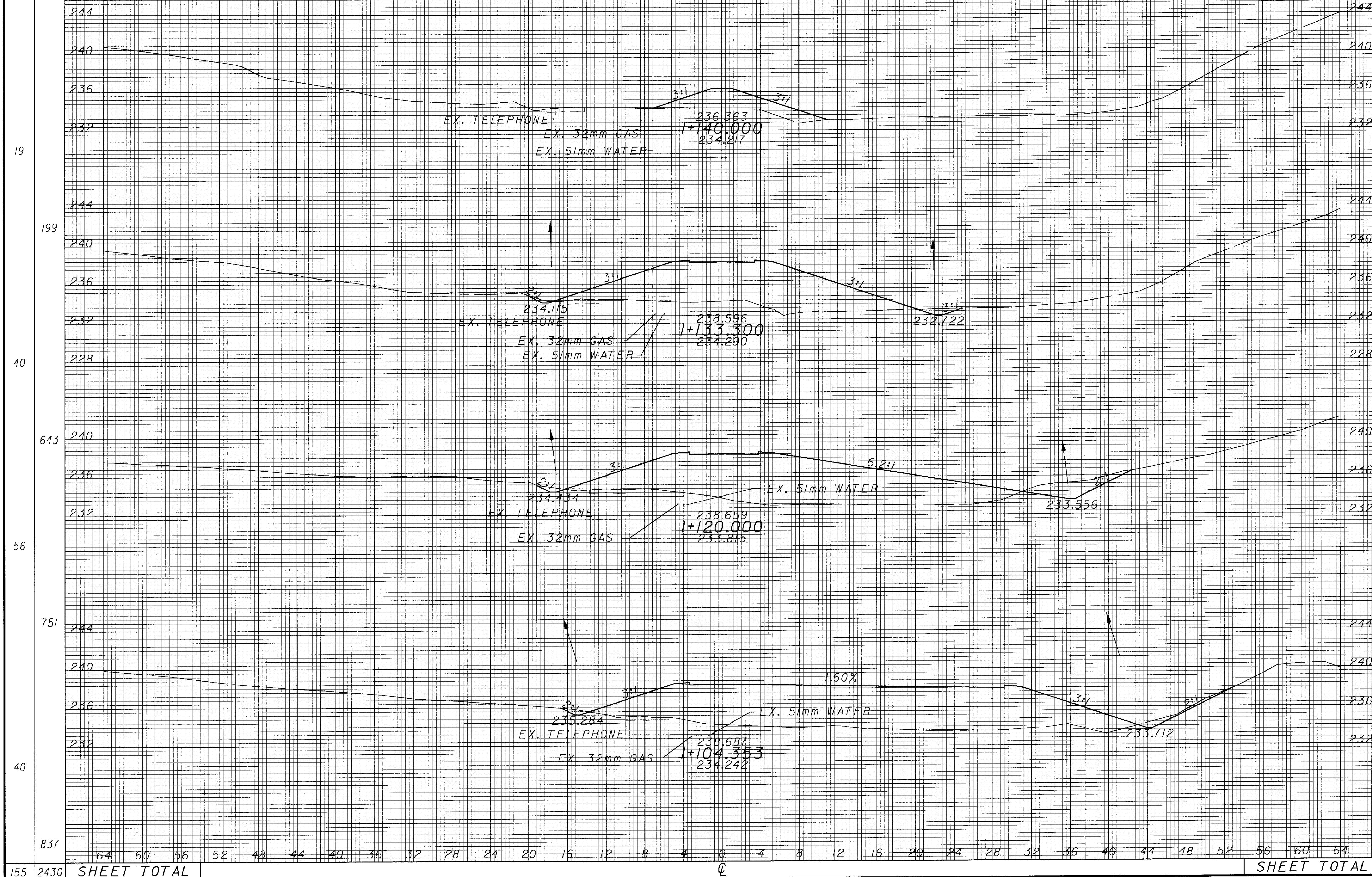
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SEEDING  
END WIDTH SQ. METERS

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
		0	23		
		7	439		
		2	108		
		93	1743		
		12	154		
		119	2780		
		4	201		
		79	3109		
155	2430			298	8071

 - ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION



TR 68 CROSS SECTIONS  
STA. 1+104.353 TO STA. 1+140

ATH-33-40.981

464  
949

02/07/2004  
08:49:55  
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SHEET TOTAL

SHEET TOTAL

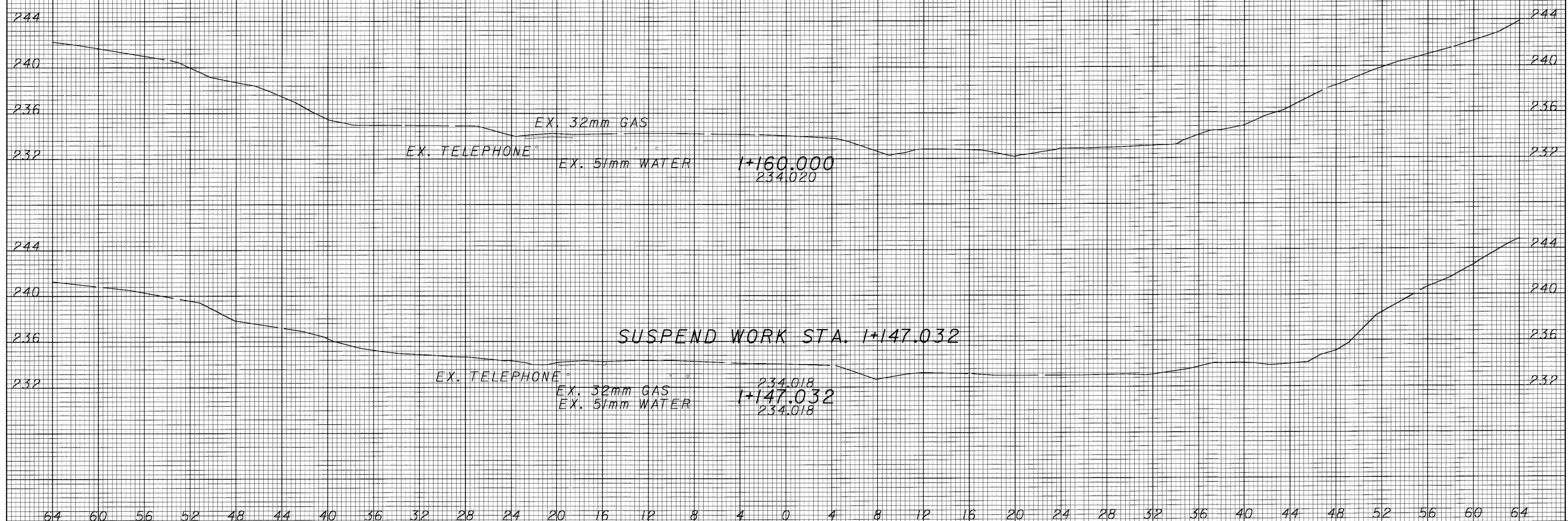
SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL

CALCULATED  
BBO  
CHECKED  
TOW

 - ROCK EXCAVATION

\* INDICATES ROCK EXCAVATION



64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64

0 0 SHEET TOTAL

SHEET TOTAL

0 0

TR 68 CROSS SECTIONS  
STA. 1+147.032 TO STA. 1+160

ATH-33-40.981

465  
949

02/07/2001  
14:53:54  
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WILLIAM F. HEDRICK &  
 BONNIE K. HEDRICK A.K.A.  
 BONNIE HEDRICK

HARIET MEEKS, A.K.A.  
 HARIET J. MEEKS

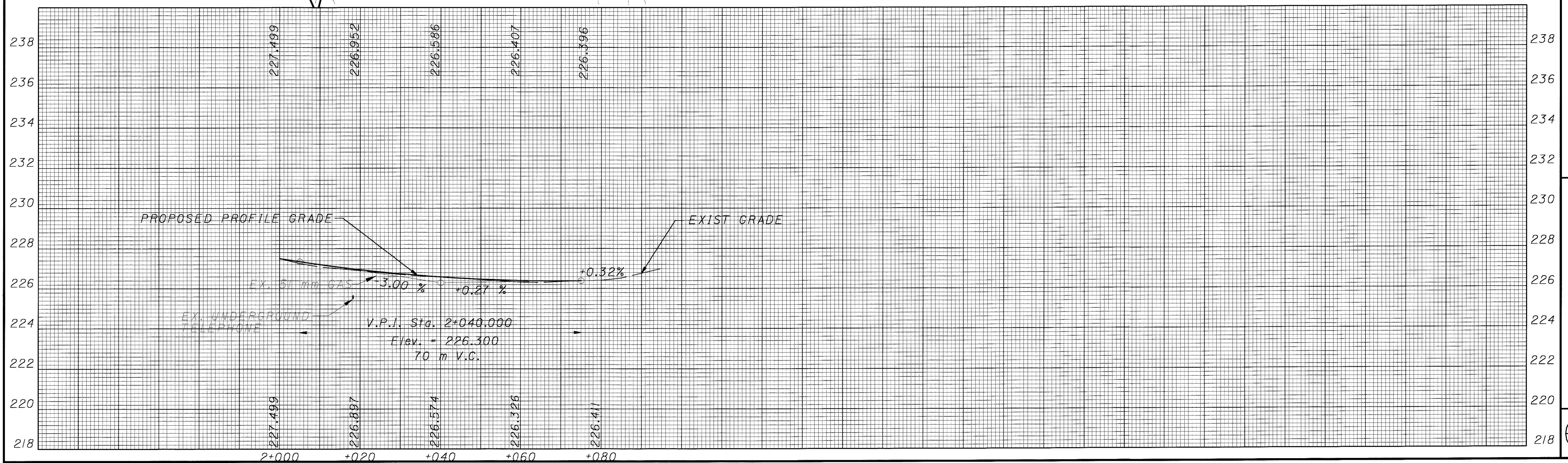
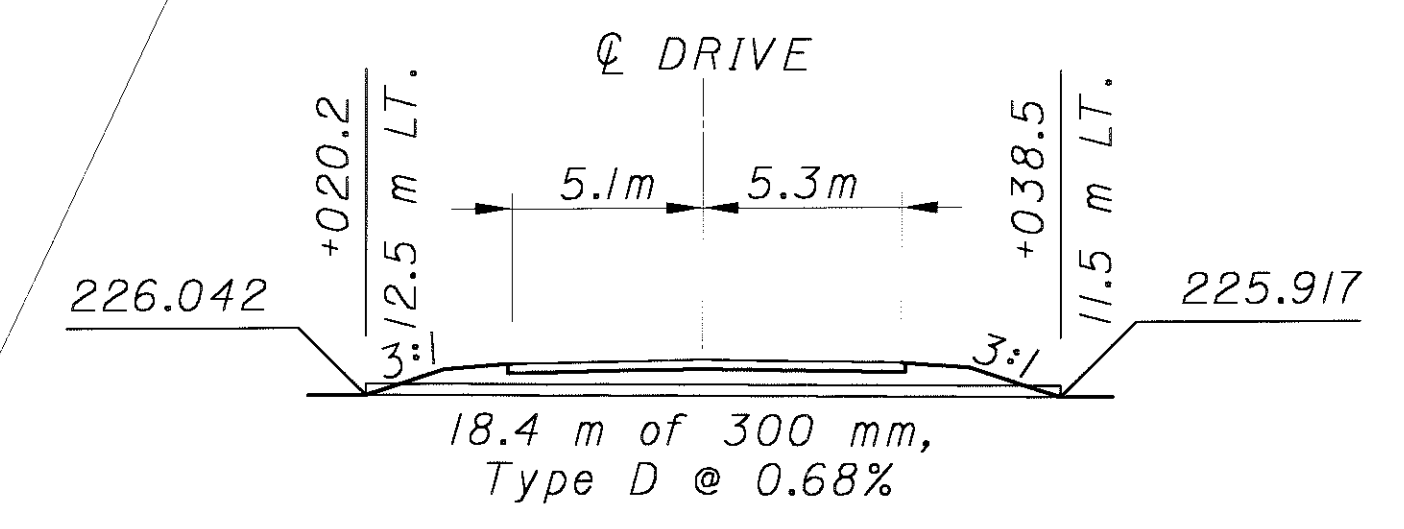
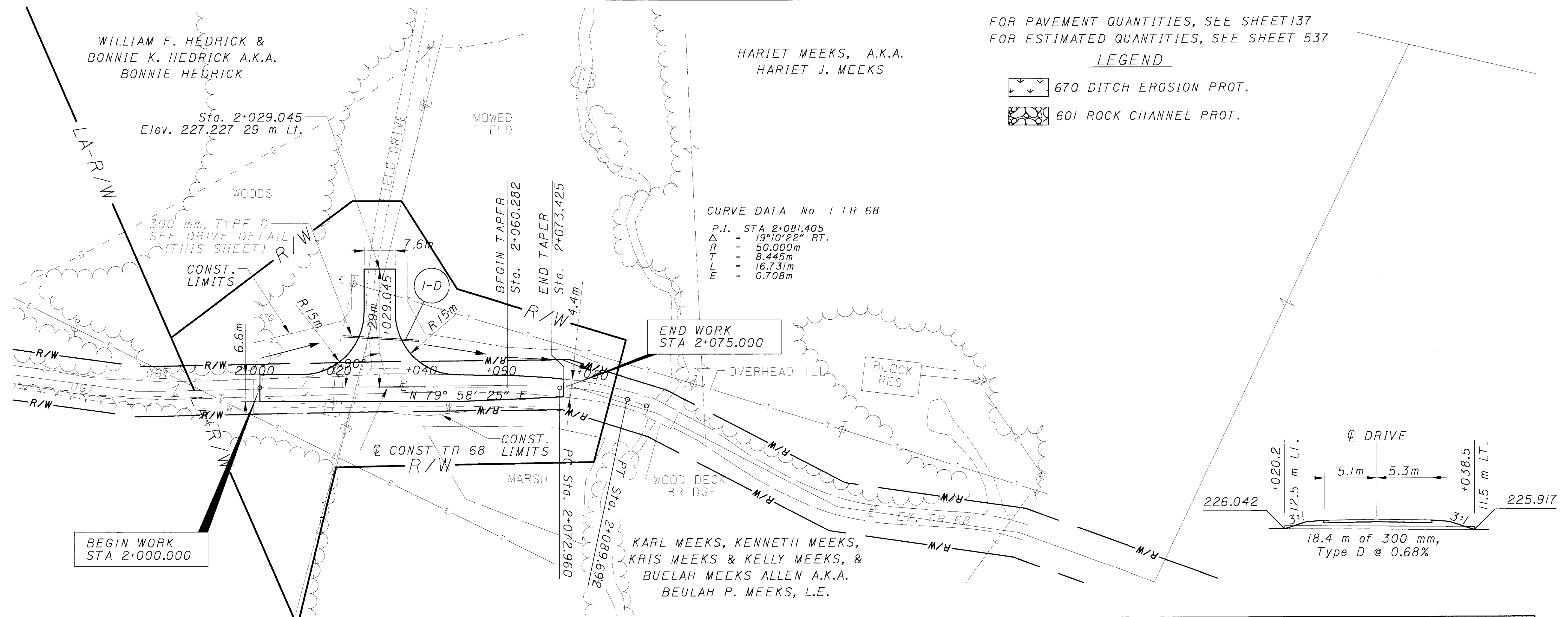
FOR PAVEMENT QUANTITIES, SEE SHEET 137  
 FOR ESTIMATED QUANTITIES, SEE SHEET 537

**LEGEND**

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

0 1500 20  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 BDD  
 CHECKED  
 TDW



TR 68 PLAN & PROFILE  
 STA 2+000 TO STA 2+094.570

ATH-33-40.981

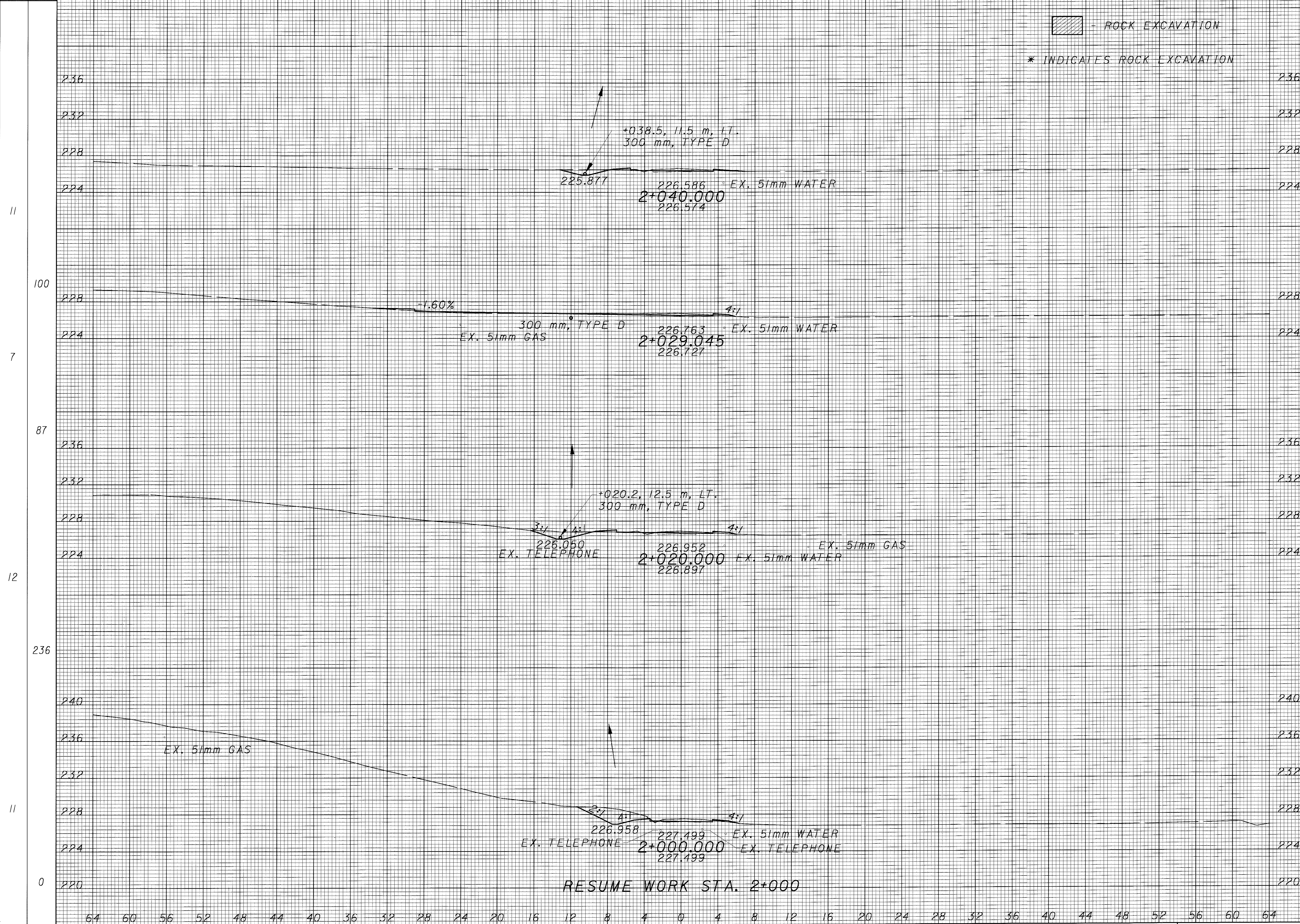
466  
 920

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SEEDING  
END WIDTH SO. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED BBD CHECKED TDW

ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION



END AREA	VOLUME
CUT	FILL
3	1
28	13
2	2
26	12
4	1
126	12
9	0
0	0
180	37

TR 68 CROSS SECTIONS  
STA. 2+000 TO STA. 2+040

ATH-33-40.981

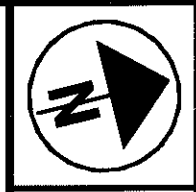
467  
949

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64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64  
41 423 SHEET TOTAL 180 37 SHEET TOTAL

RESUME WORK STA. 2+000





1:500  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
BDD  
CHECKED  
TDW

TR 67 PLAN & PROFILE  
STA 1+000 TO STA 1+140

ATH-33-40.981

469  
949

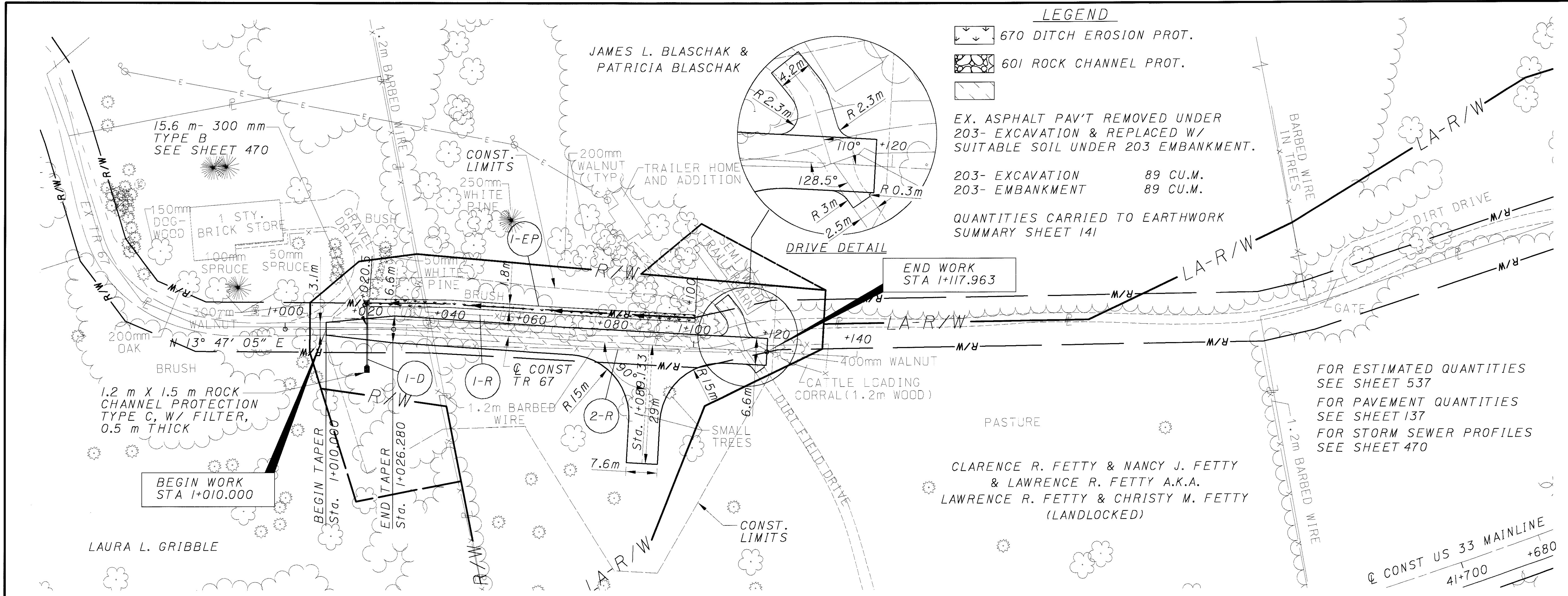
LEGEND

- 670 DITCH EROSION PROT.
- 601 ROCK CHANNEL PROT.

EX. ASPHALT PAV'T REMOVED UNDER 203- EXCAVATION & REPLACED W/ SUITABLE SOIL UNDER 203 EMBANKMENT.

203- EXCAVATION 89 CU.M.  
203- EMBANKMENT 89 CU.M.

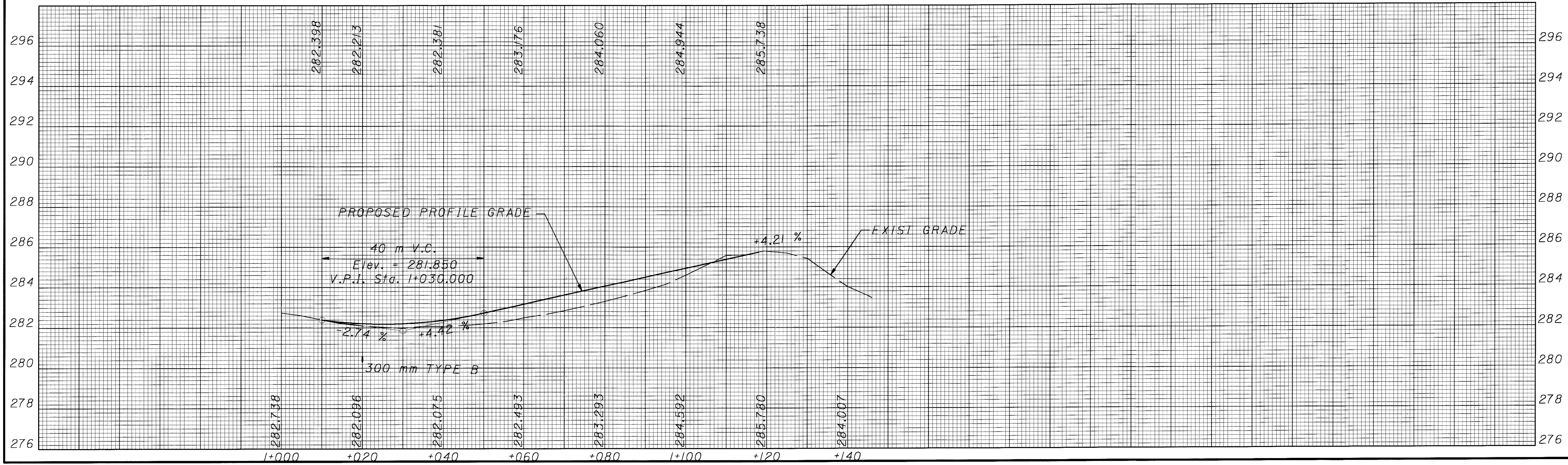
QUANTITIES CARRIED TO EARTHWORK SUMMARY SHEET 141



FOR ESTIMATED QUANTITIES SEE SHEET 537  
FOR PAVEMENT QUANTITIES SEE SHEET 137  
FOR STORM SEWER PROFILES SEE SHEET 470

CLARENCE R. FETTY & NANCY J. FETTY  
& LAWRENCE R. FETTY A.K.A.  
LAWRENCE R. FETTY & CHRISTY M. FETTY  
(LANDLOCKED)

LAURA L. GRIBBLE

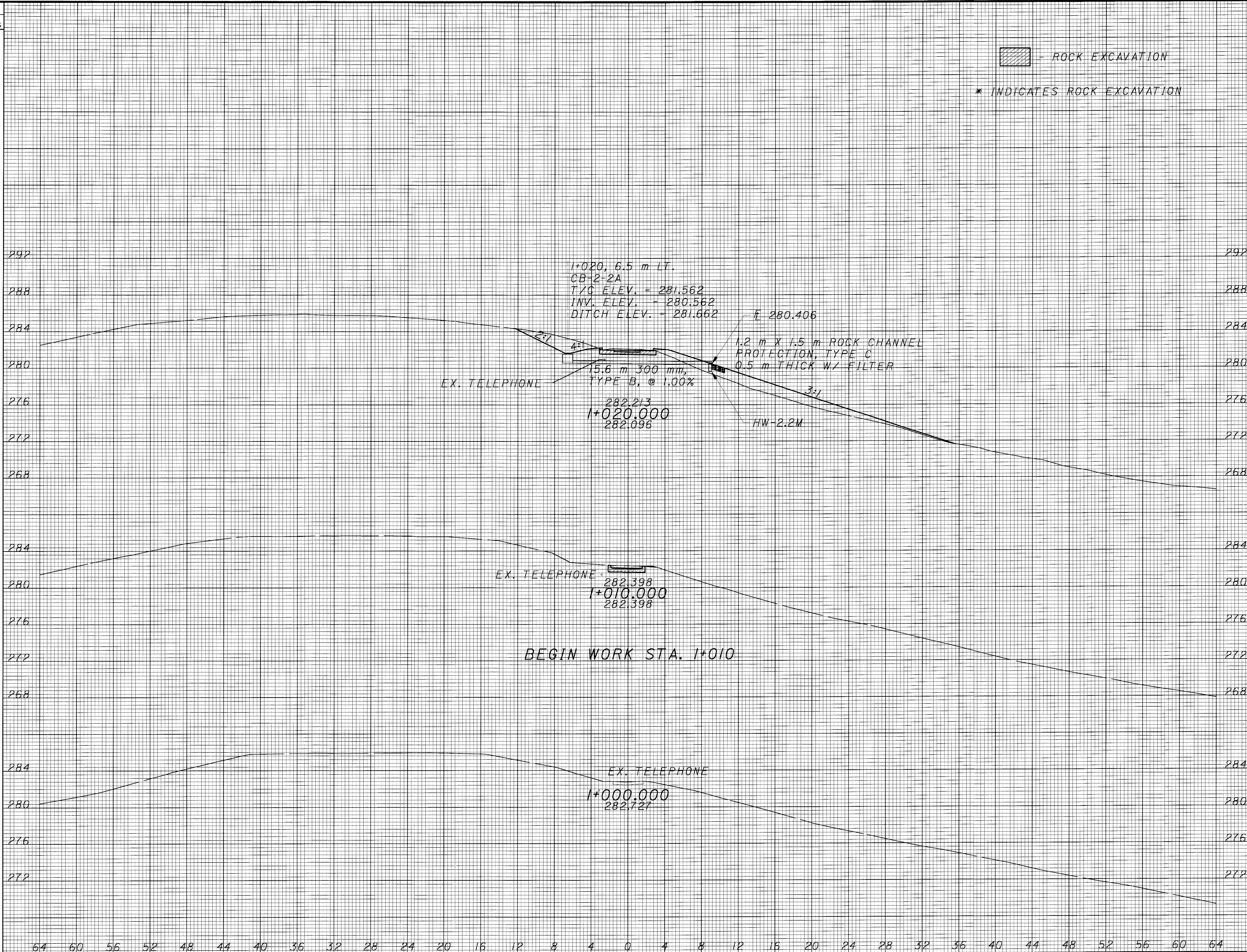


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02/07/08 PM  
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SEEDING  
END WIDTH SO. METERS

46	230
44	230
2	230



END AREA	VOLUME	
	CUT	FILL
9	24	
*3		
48	122	
*24		
1	0	
*2		
0	0	
*0		
0	0	
ROCK TOTAL	*24	
SHEET TOTAL	48	122

TR 67 CROSS SECTIONS  
STA. 1+000 TO STA. 1+020

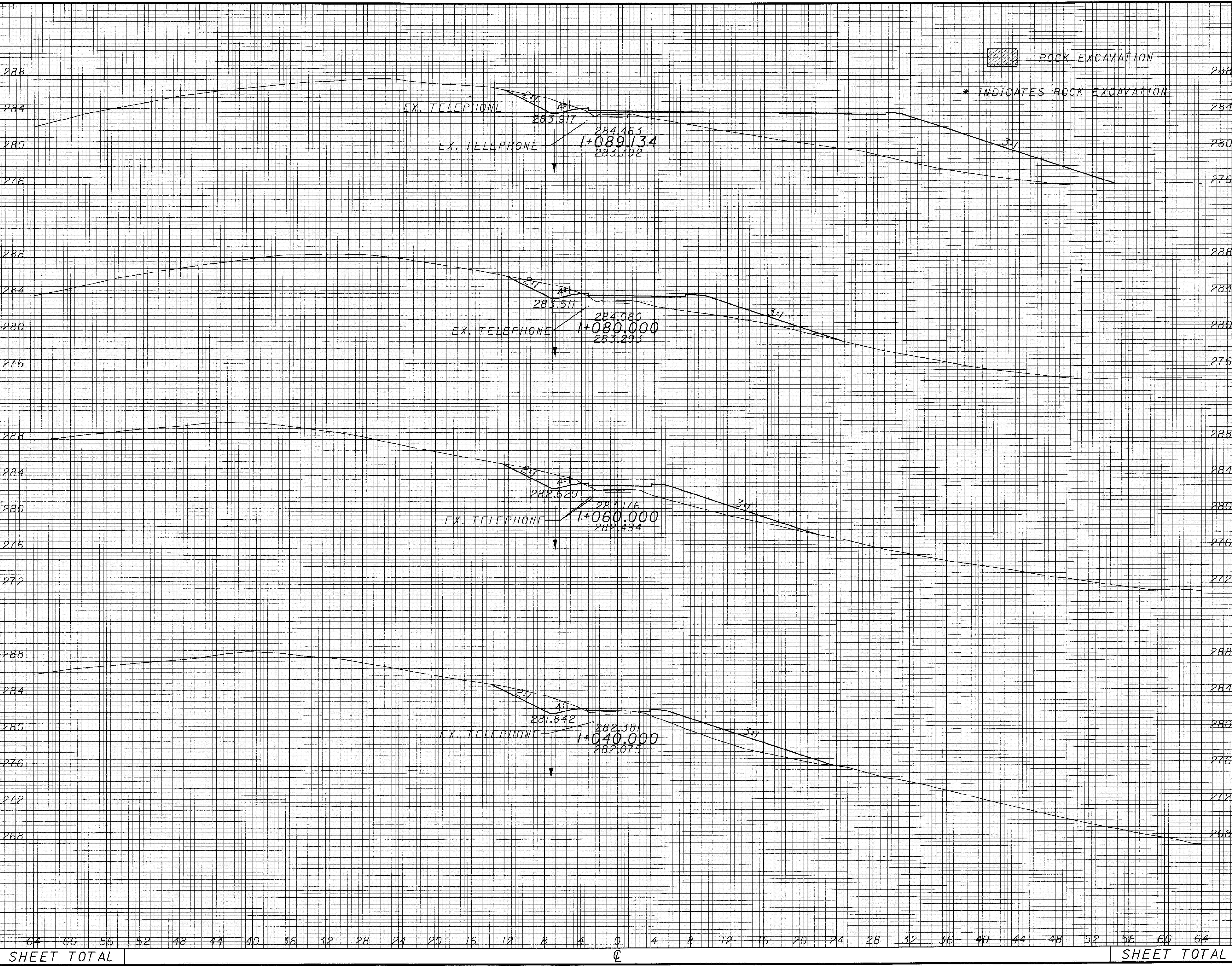
ATH-33-40.981

470  
949

SHEET TOTAL

02/07/2001  
 08:49:04  
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SEEDING	
END WIDTH	SO. METERS
64	760
60	32
56	620
52	29
48	580
44	28
40	292
36	36
32	
28	
24	
20	
16	
12	
8	
4	
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	
44	
48	
52	
56	
60	
64	



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
7	155			
7	26	60	825	
8	21	143	465	
9	22	173	423	
*0		182	463	
<b>ROCK TOTAL</b>				
<b>SHEET TOTAL</b>		558	2176	

**TR 67 CROSS SECTIONS**  
**STA. 1+040 TO STA. 1+089.134**

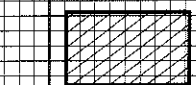
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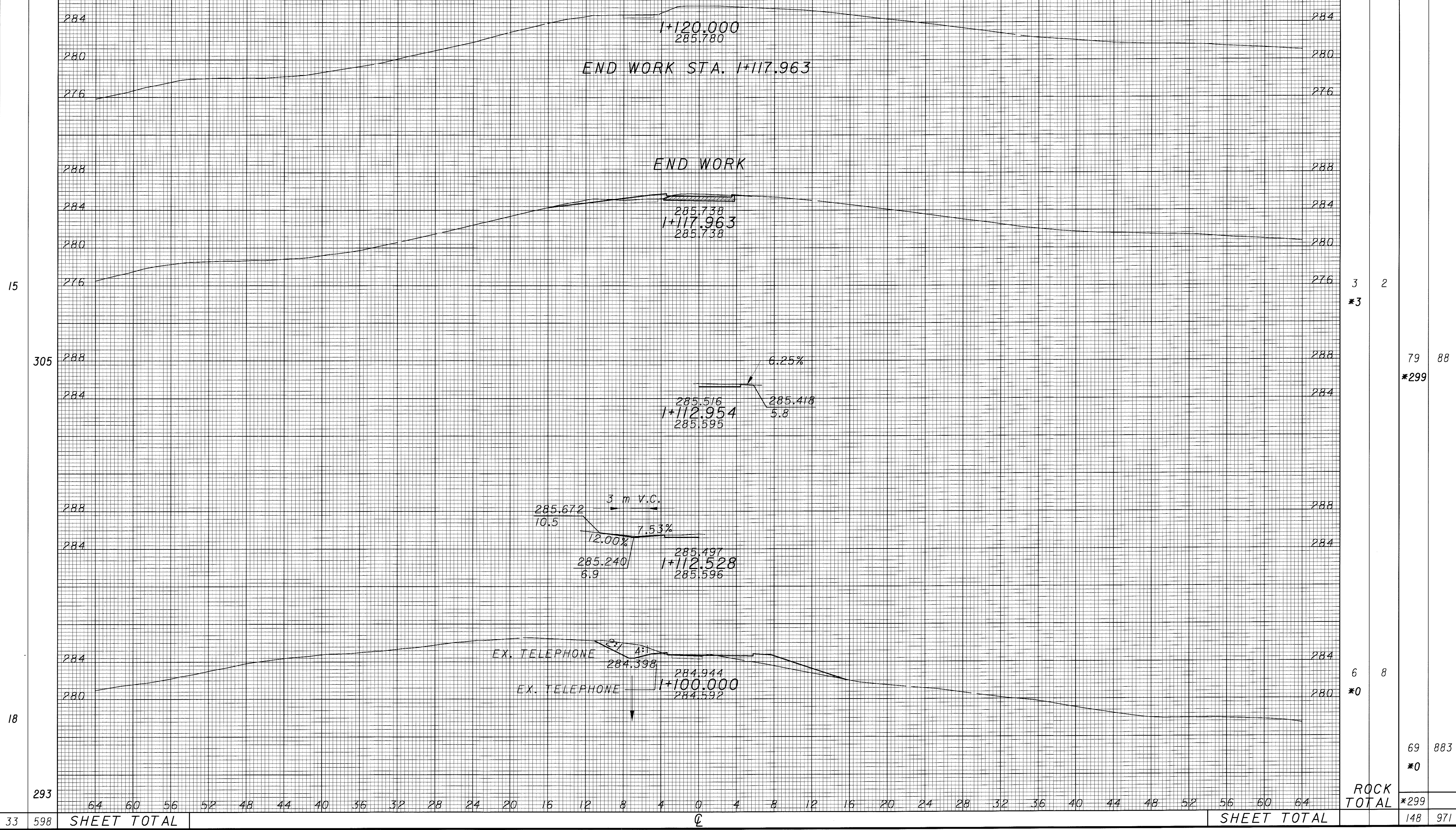
471  
 949



SEEDING  
END WIDTH SO. METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBO  
CHECKED  
TOW

 - ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION



END AREA	VOLUME
CUT	FILL
3	2
*3	
79	88
*299	
6	8
*0	
69	883
*0	
<b>ROCK TOTAL</b>	
*299	
148	971

TR 67 CROSS SECTIONS  
STA. 1+100 TO STA. 1+120

ATH-33-40.981

472  
949

02/07/2004  
08:55:58  
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33 598

SHEET TOTAL

SHEET TOTAL



1:500  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
BDD  
CHECKED  
TDW

CR 89 PLAN & PROFILE  
STA 1+908.418 TO STA 2+150

ATH-33-40.981

473  
949

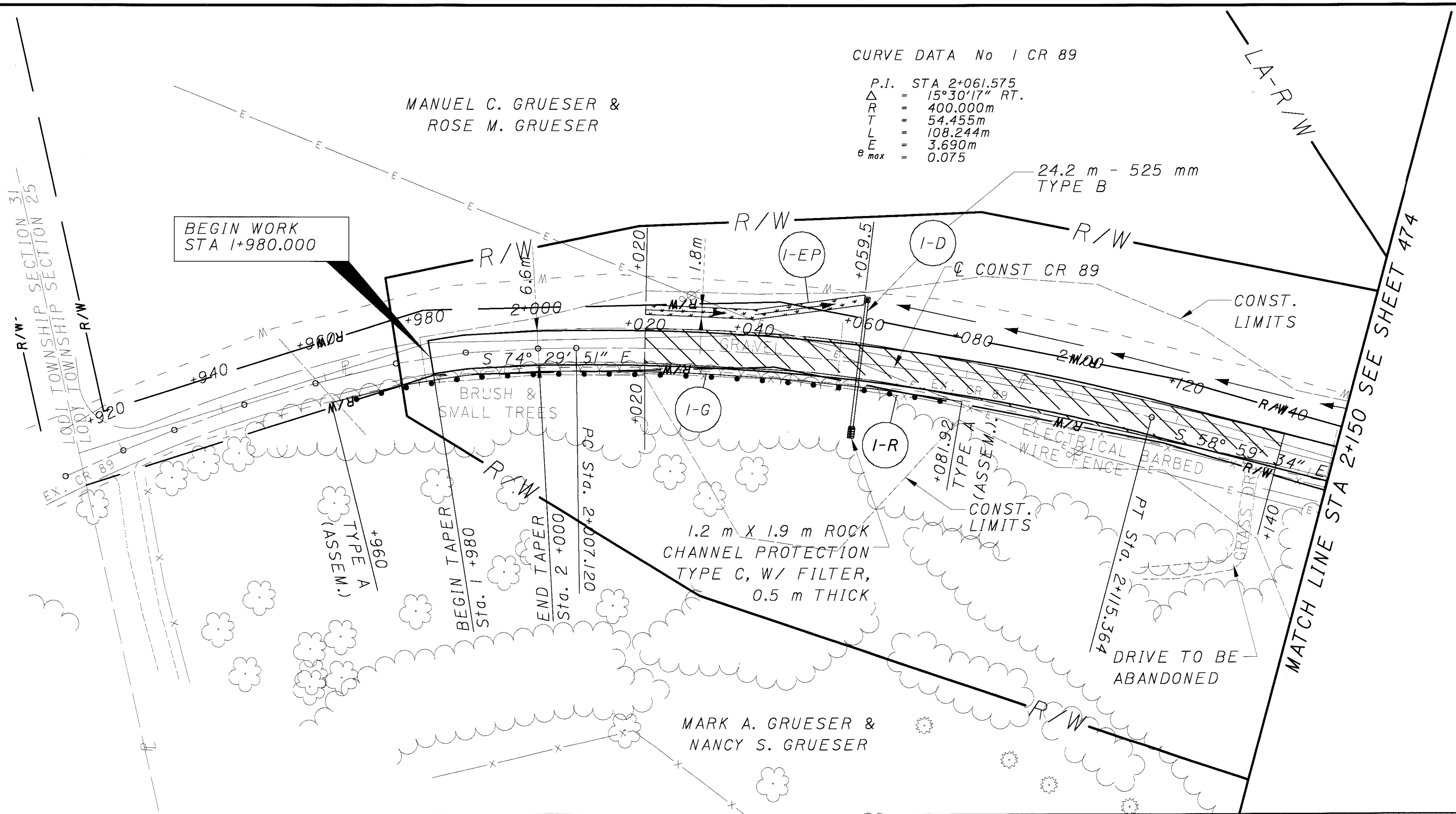
CURVE DATA No 1 CR 89

P.I. = STA 2+061.575  
 $\Delta$  = 15°30'17" RT.  
R = 400.000m  
T = 54.455m  
L = 108.244m  
E = 3.690m  
 $e_{max}$  = 0.075

MANUEL C. GRUESER &  
ROSE M. GRUESER

BEGIN WORK  
STA 1+980.000

100' TOWNSHIP SECTION 31  
100' TOWNSHIP SECTION 25



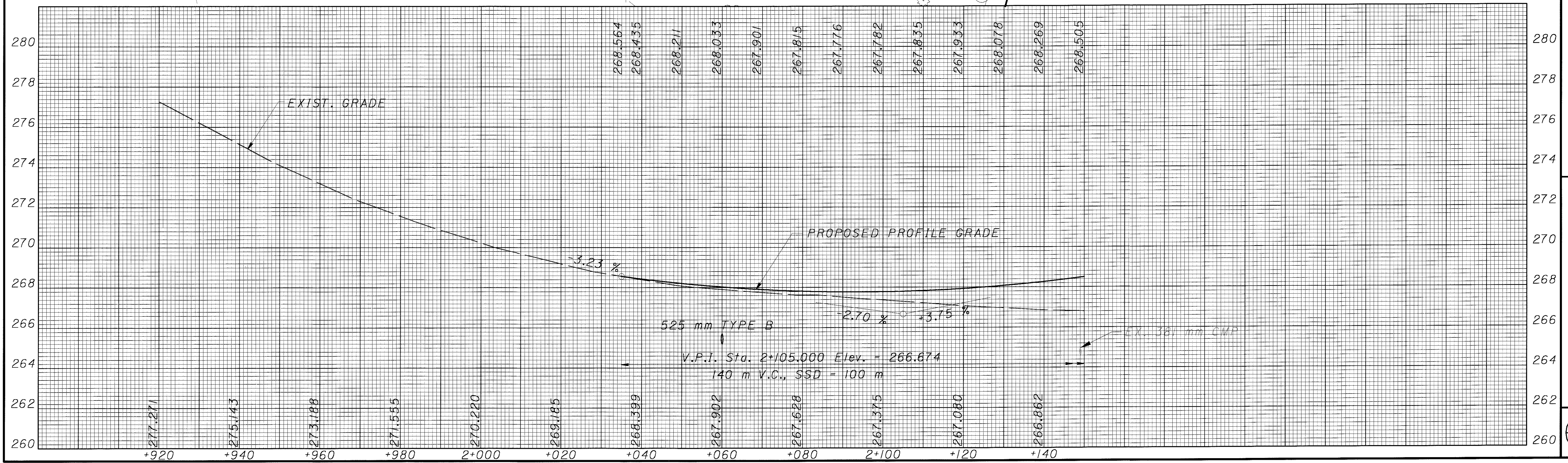
LEGEND

- 670 DITCH EROSION PROT.
- 60I ROCK CHANNEL PROT.
- 

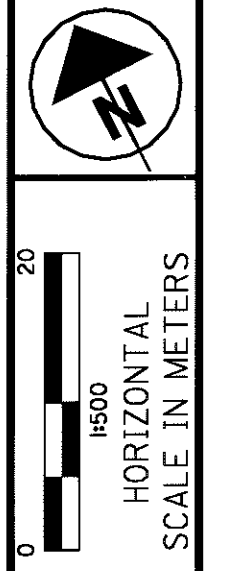
EX. ASPHALT PAV'T REMOVED UNDER 203- EXCAVATION & REPLACED W/ SUITABLE SOIL UNDER 203 EMBANKMENT.  
203- EXCAVATION 237 CU.M.  
203- EMBANKMENT 237 CU.M.

QUANTITIES CARRIED TO EARTHWORK SUMMARY SHEET 141

FOR ESTIMATED QUANTITIES SEE SHEET 537  
FOR PAVEMENT QUANTITIES SEE SHEET 137  
FOR STORM SEWER PROFILE SEE SHEET 478



02/07/01  
02:00:00  
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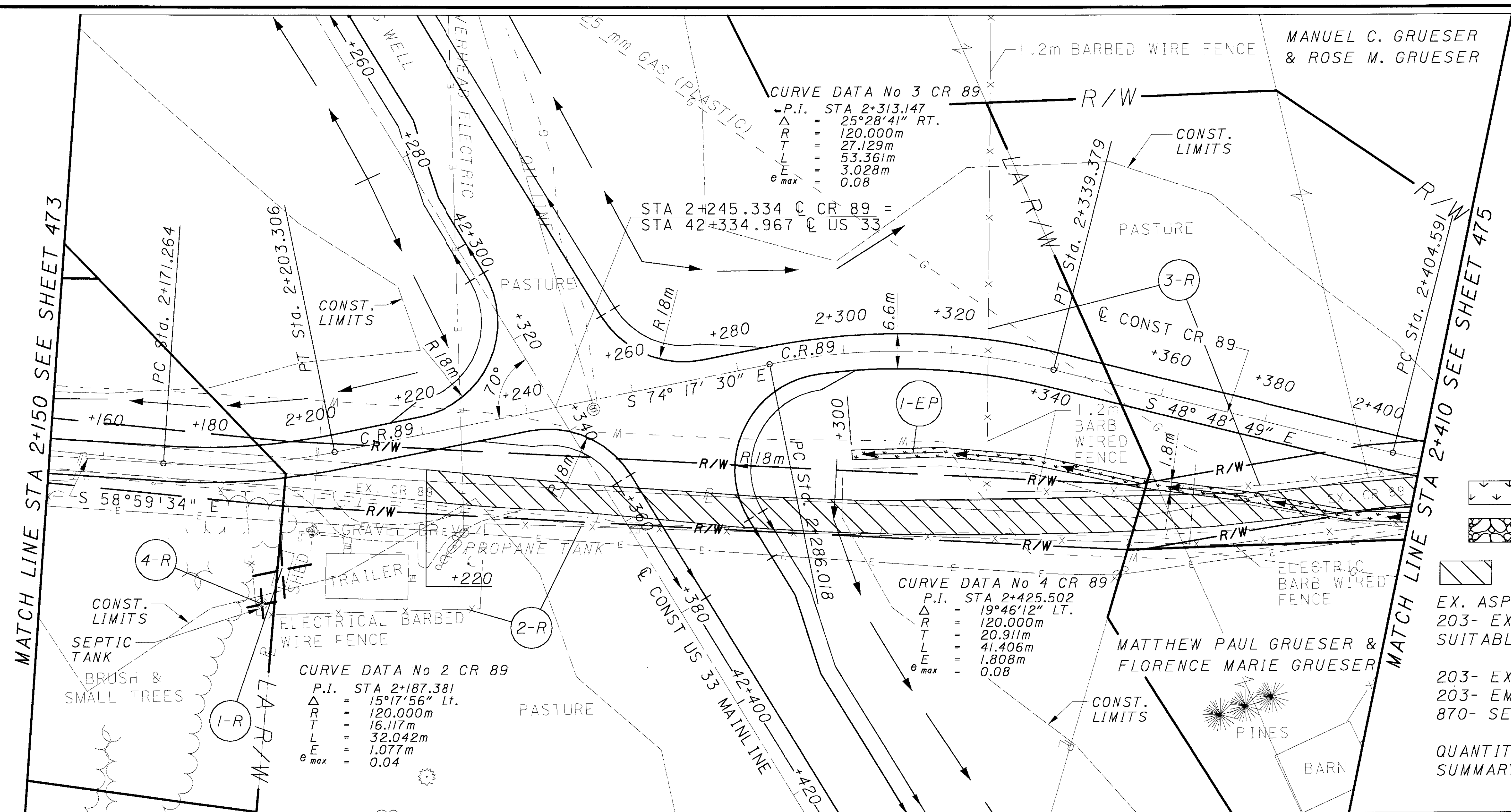
CALCULATED  
BDD  
CHECKED  
TJW

FOR PAVEMENT QUANTITIES  
SEE SHEET 137  
FOR JOINT LAYOUT DETAILS  
SEE SHEET 560  
FOR LIGHTING PLANS  
SEE SHEET 593  
FOR MAINLINE DETAILS  
SEE SHEET 170  
FOR INTERSECTION DETAIL  
SEE SHEET 556  
FOR ESTIMATED QUANTITIES  
SEE SHEET 537

**CR 89 PLAN & PROFILE  
STA 2+150 TO STA 2+410**

**ATH-33-40.981**

474  
949



FOR PAVEMENT QUANTITIES  
SEE SHEET 137  
FOR JOINT LAYOUT DETAILS  
SEE SHEET 560  
FOR LIGHTING PLANS  
SEE SHEET 593  
FOR MAINLINE DETAILS  
SEE SHEET 170  
FOR INTERSECTION DETAIL  
SEE SHEET 556  
FOR ESTIMATED QUANTITIES  
SEE SHEET 537

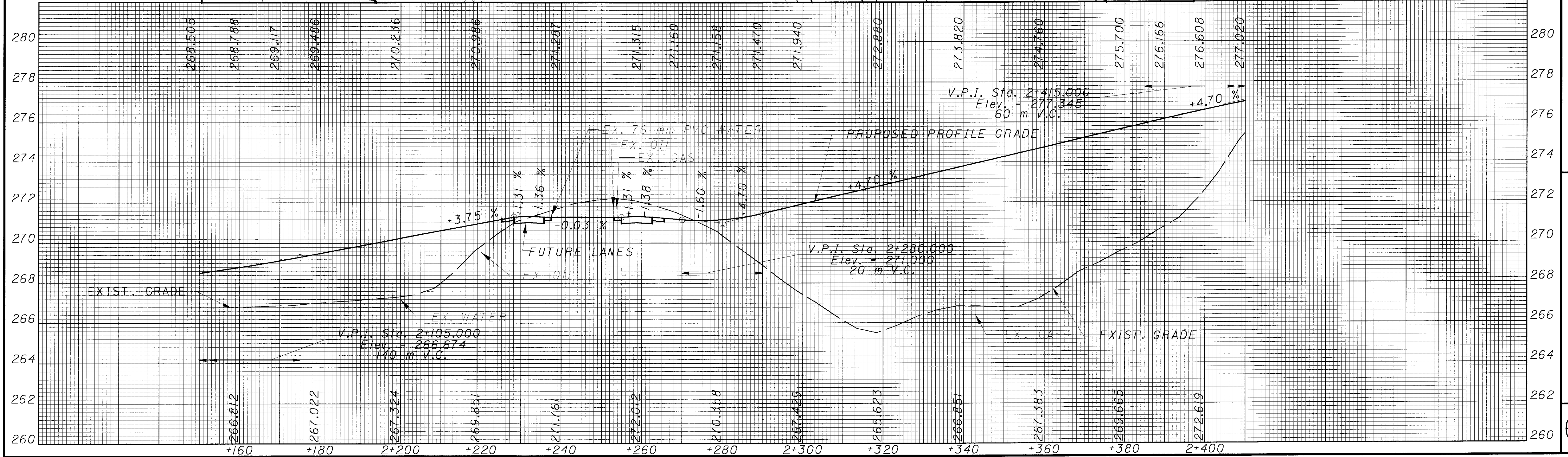
**LEGEND**

- 670 DITCH EROSION PROT.
- 601 ROCK CHANNEL PROT.

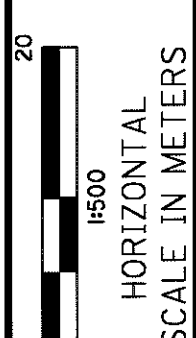
EX. ASPHALT PAV'T REMOVED UNDER  
203- EXCAVATION & REPLACED W/  
SUITABLE SOIL UNDER 203 EMBANKMENT.

203- EXCAVATION 331 CU.M.  
203- EMBANKMENT 331 CU.M.  
870- SEED & MULCHING 1102 SQ.M.

QUANTITIES CARRIED TO EARTHWORK  
SUMMARY SHEET 141



02/07/01  
05:04:06  
m:\p\proj\382\1016-00\as\cr89\pocr-89-2.dgn



CALCULATED  
BBD  
CHECKED  
TDW

**CR 89 PLAN & PROFILE  
STA 2+410 TO STA 2+608.091**

**ATH-33-40.981**

475  
949

CURVE DATA No 4 CR 89  
P.I. STA 2+425.502  
 $\Delta$  = 19°46'12" LT.  
R = 120.000m  
T = 20.911m  
L = 41.406m  
E = 1.808m  
 $\theta_{max}$  = 0.08

MANUEL C. GRUESER  
& ROSE M. GRUESER

LEGEND

670 DITCH EROSION PROT.

601 ROCK CHANNEL PROT.

EX. ASPHALT PAV'T REMOVED UNDER 203- EXCAVATION & REPLACED W/ SUITABLE SOIL UNDER 203 EMBANKMENT.

203- EXCAVATION 73 CU.M.  
203- EMBANKMENT 73 CU.M.

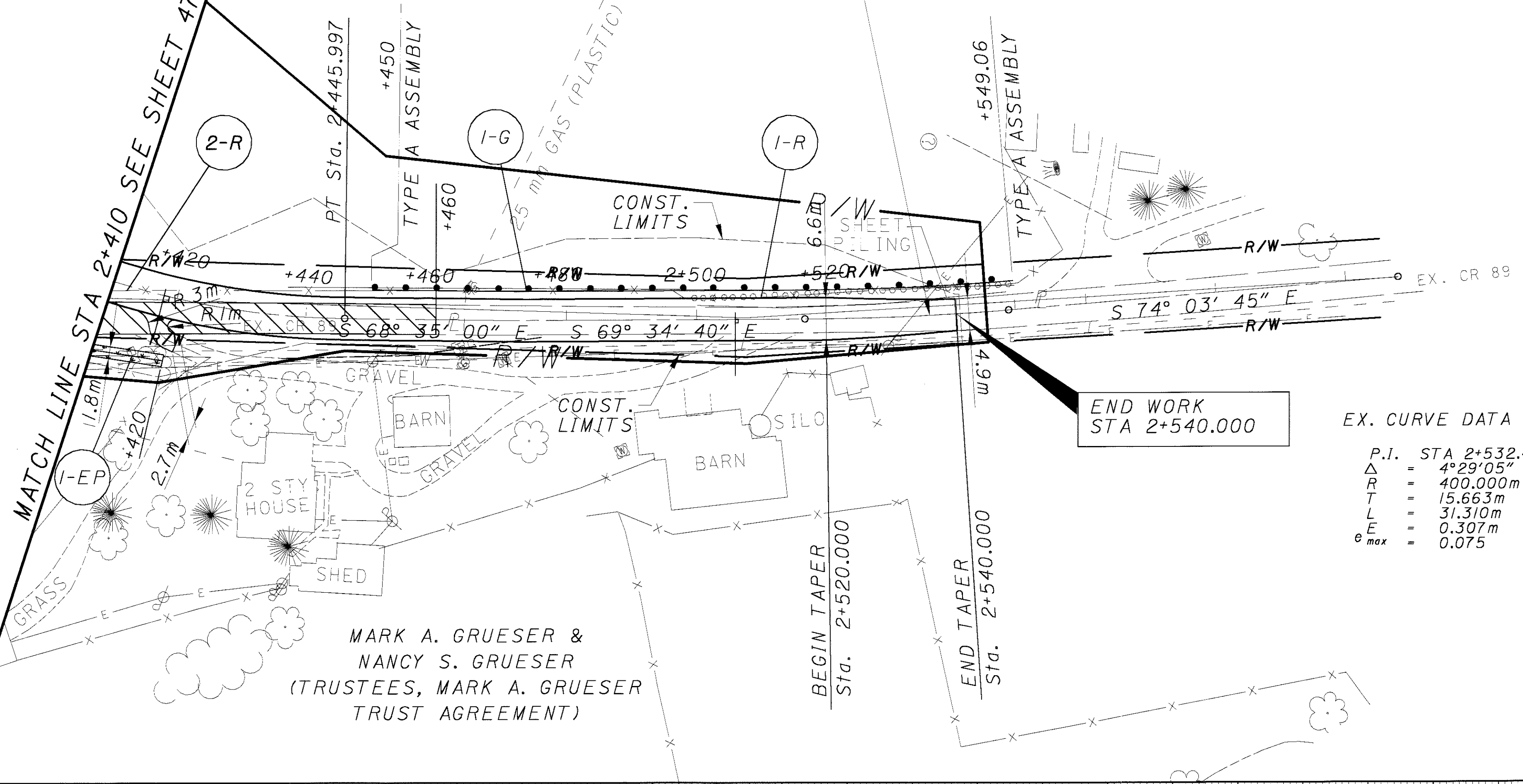
QUANTITIES CARRIED TO EARTHWORK SUMMARY SHEET 141

FOR DRIVE DETAILS  
SEE SHEET 484

FOR ESTIMATED QUANTITIES  
SEE SHEET 537

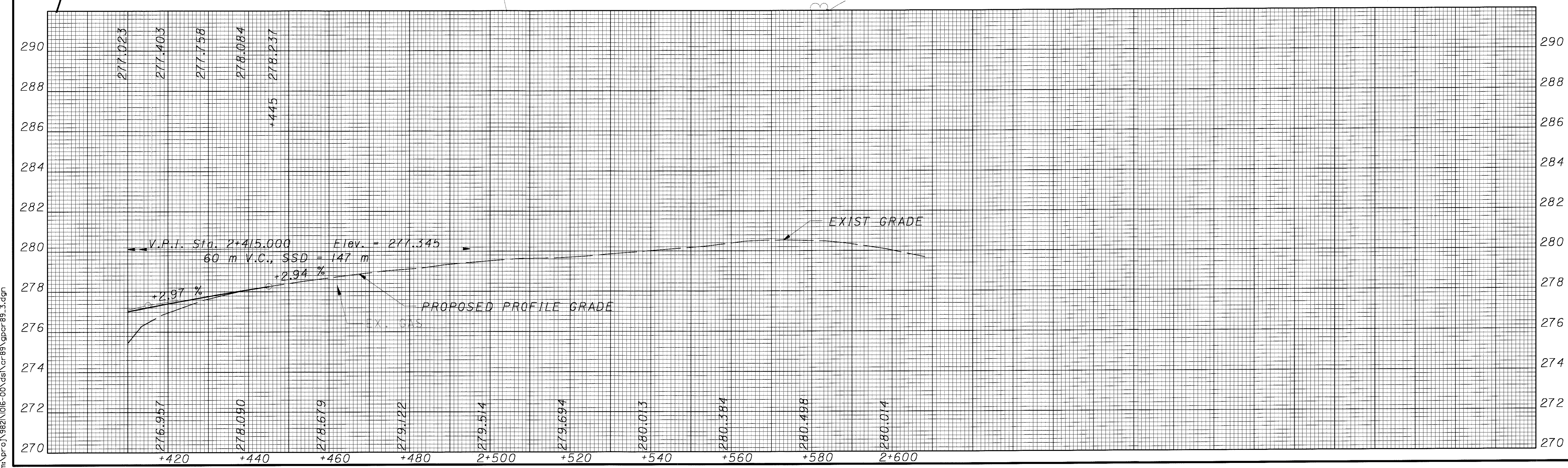
FOR PAVEMENT QUANTITIES  
SEE SHEET 137&138

MATCH LINE STA 2+410 SEE SHEET 474



EX. CURVE DATA No 5 CR 89  
P.I. STA 2+532.427  
 $\Delta$  = 4°29'05" LT.  
R = 400.000m  
T = 15.663m  
L = 31.310m  
E = 0.307m  
 $\theta_{max}$  = 0.075

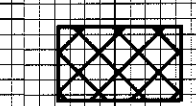

MARK A. GRUESER &  
NANCY S. GRUESER  
(TRUSTEES, MARK A. GRUESER  
TRUST AGREEMENT)

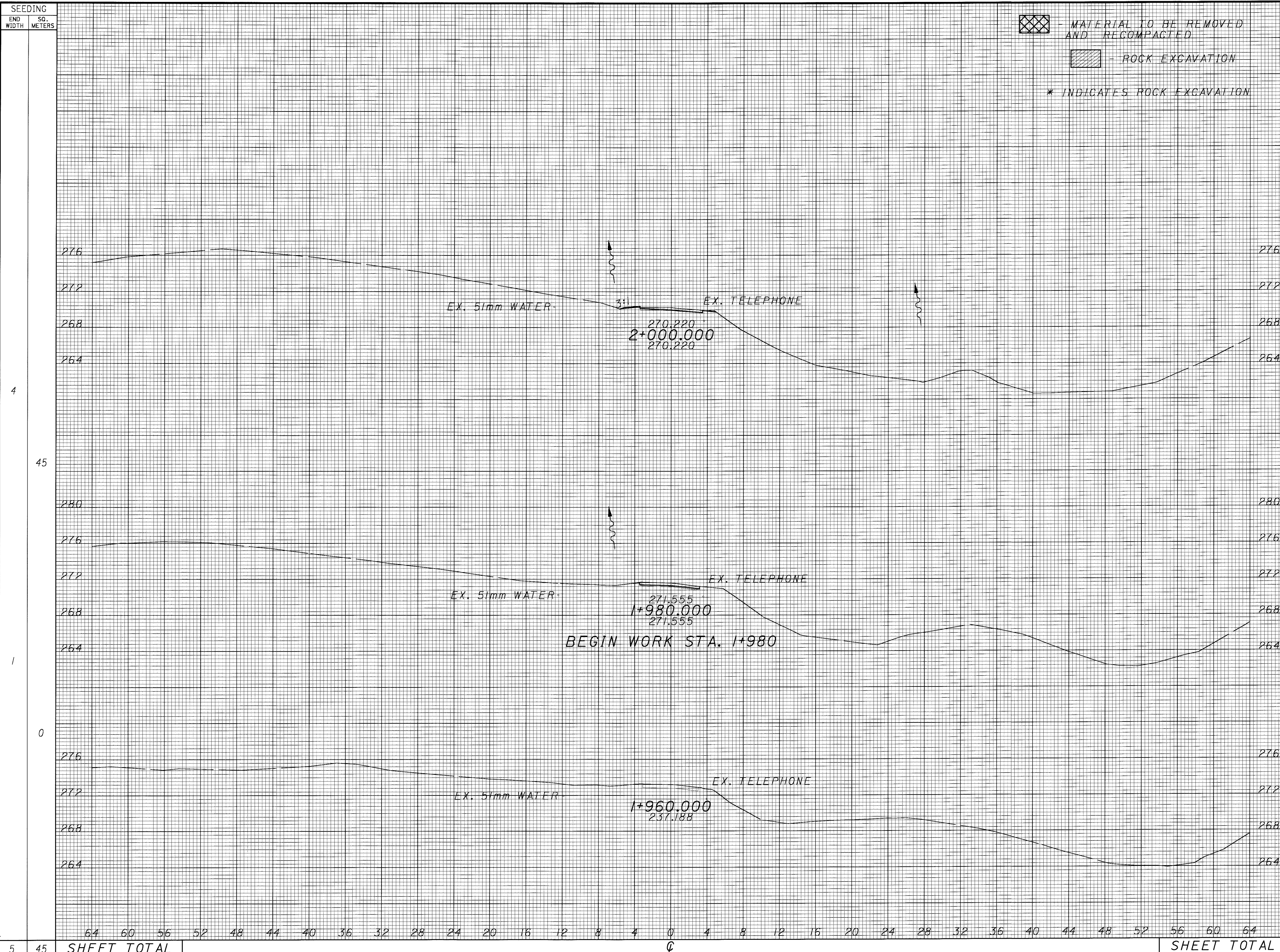


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SEEDING  
END SO.  
WIDTH METERS

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
BBD  
CHECKED  
TDW

 MATERIAL TO BE REMOVED AND RECOMPACTED  
 ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION



END AREA		VOLUME	
CUT	FILL	CUT	FILL
2	0	33	2
2	0	0	0
<b>SHEET TOTAL</b>		33	2

CR 89 CROSS SECTIONS  
STA. 1+960 TO STA. 2+000

ATH-33-40.981

476  
949

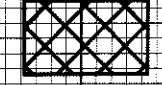
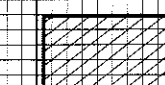
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5 45 SHEET TOTAL

SHEET TOTAL

02/07/2001  
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SEEDING	
END WIDTH	SO. METERS
49	630

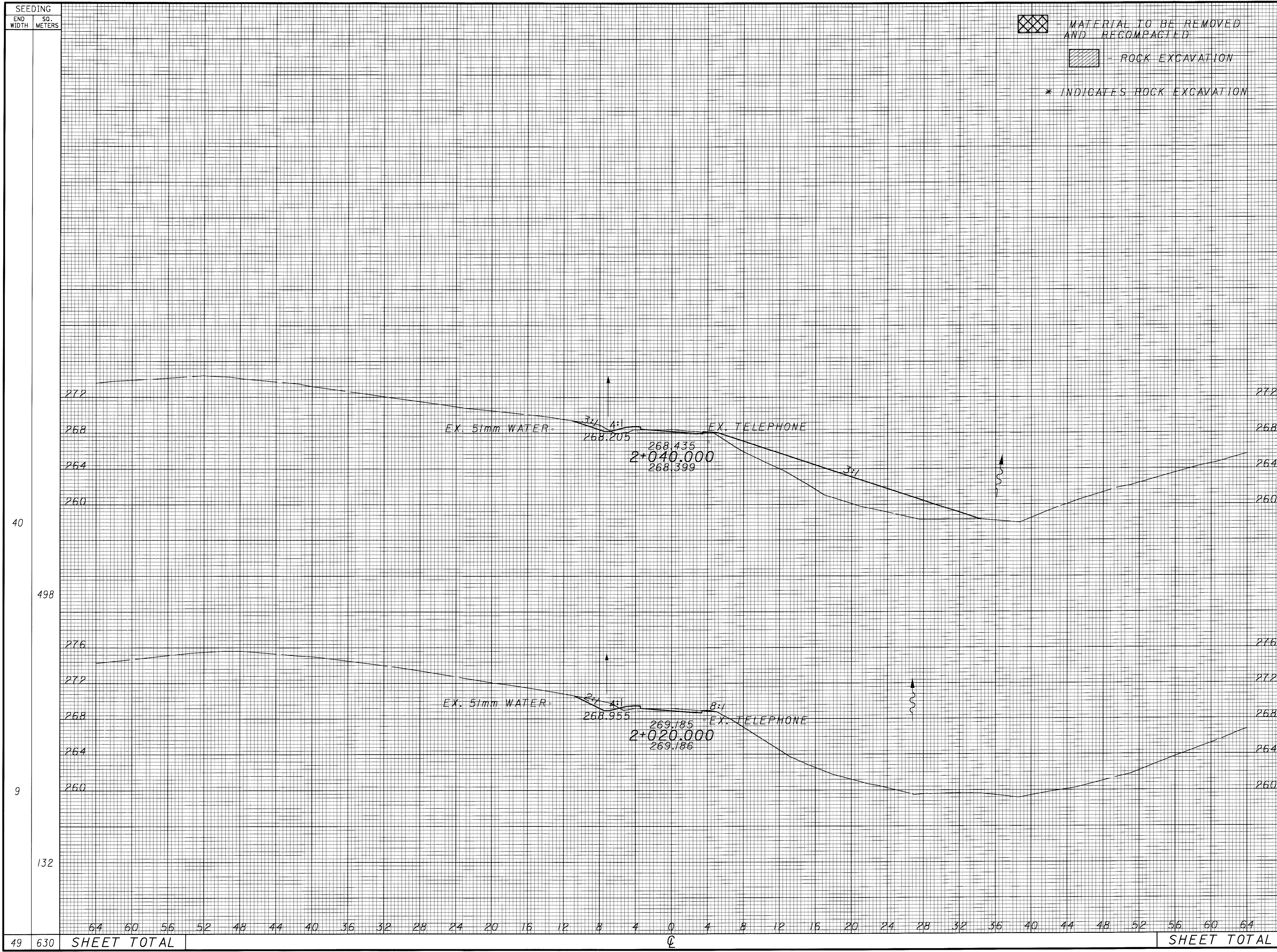
 MATERIAL TO BE REMOVED AND RECOMPACTED  
 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA		VOLUME		CALCULATED BBB	CHECKED TDW
CUT	FILL	CUT	FILL		
2	58	62	591		
4	1	56	9		
<b>SHEET TOTAL</b>		118	600		

CR 89 CROSS SECTIONS  
 STA. 2+020 TO STA. 2+040


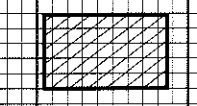
ATH-33-40.981

477  
949



272  
 268  
 264  
 260  
 40  
 498  
 276  
 272  
 268  
 264  
 260  
 9  
 132  
 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64  
 SHEET TOTAL

SEEDING  
END WIDTH SQ. METERS

 MATERIAL TO BE REMOVED AND RECOMPACTED  
 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
24	2				
252	687				
1	67				
34	1256				
286	1943				

CR 89 CROSS SECTIONS  
STA. 2+060 TO STA. 2+080

ATH-33-40.981

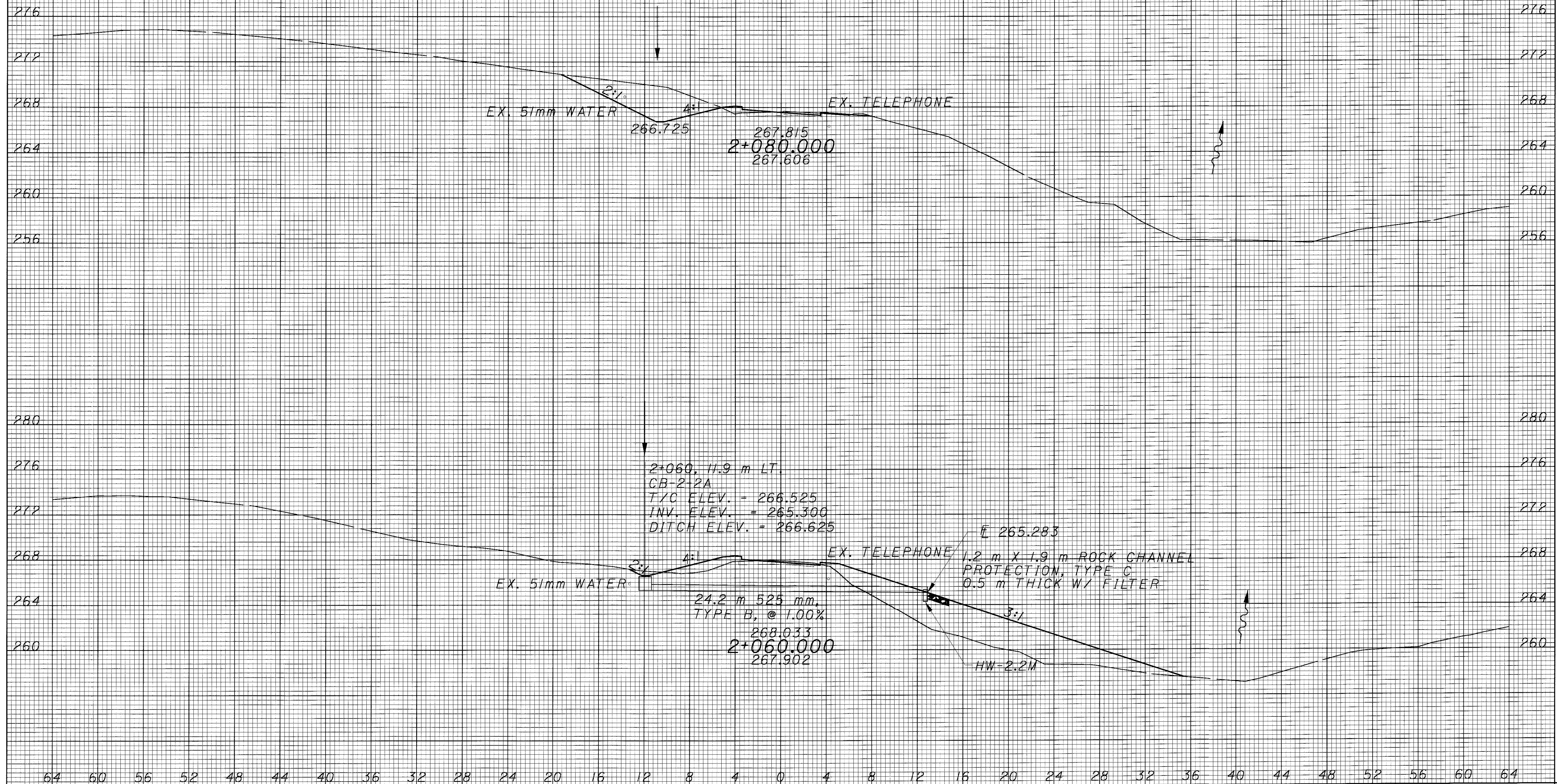
478  
949

21

652

44

841

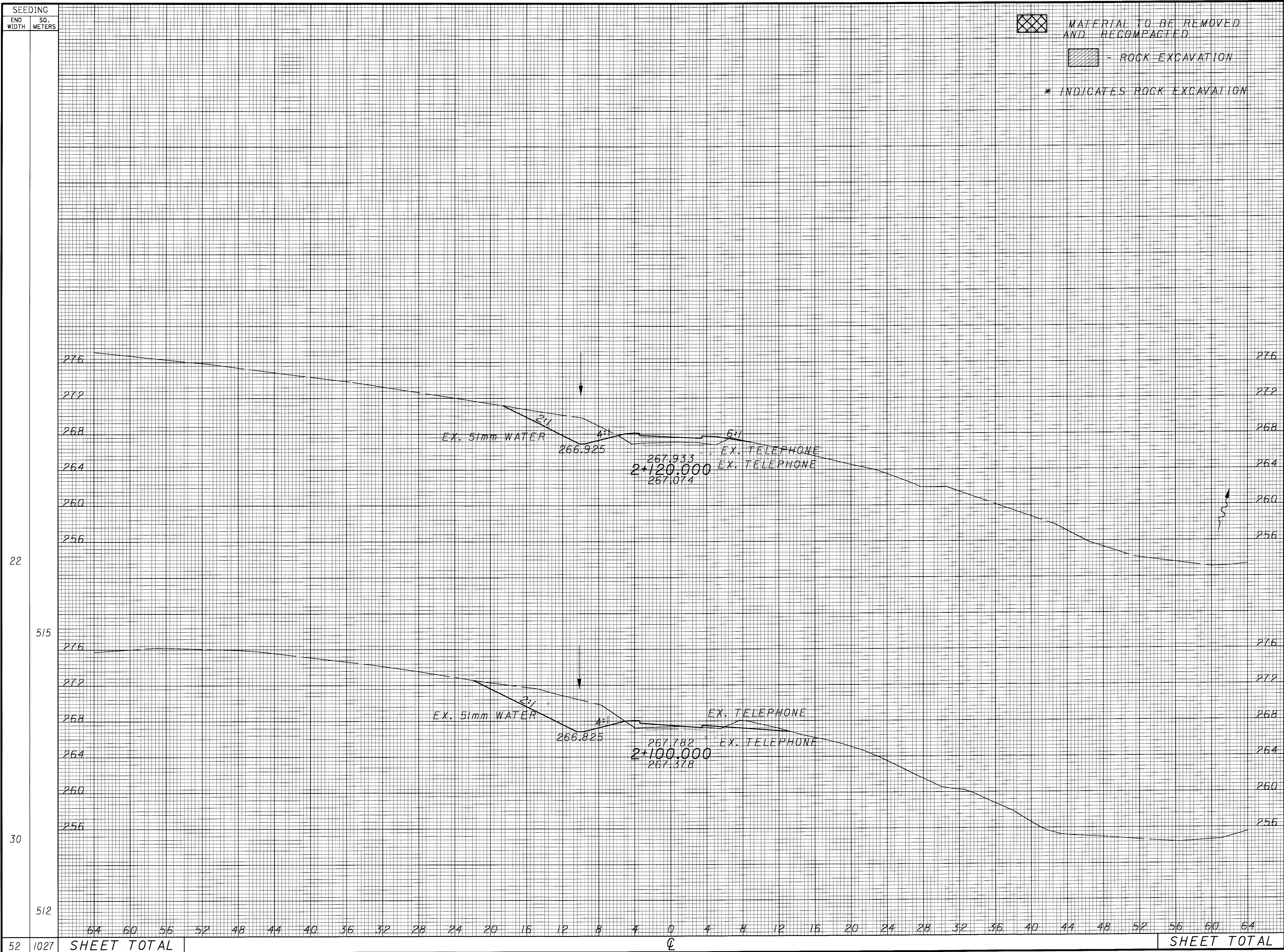


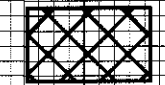
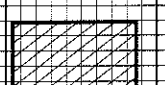
64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64

SHEET TOTAL

SHEET TOTAL

08/07/2001  
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 MATERIAL TO BE REMOVED AND RECOMPACTED  
 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA	VOLUME	CALCULATED	BDD	CHECKED	TDW
19	8				
565	111				
38	3				
616	42				
<b>1181</b>	<b>153</b>				

CR 89 CROSS SECTIONS  
 STA. 2+100 TO STA. 2+120

ATH-33-40.981

479  
 949

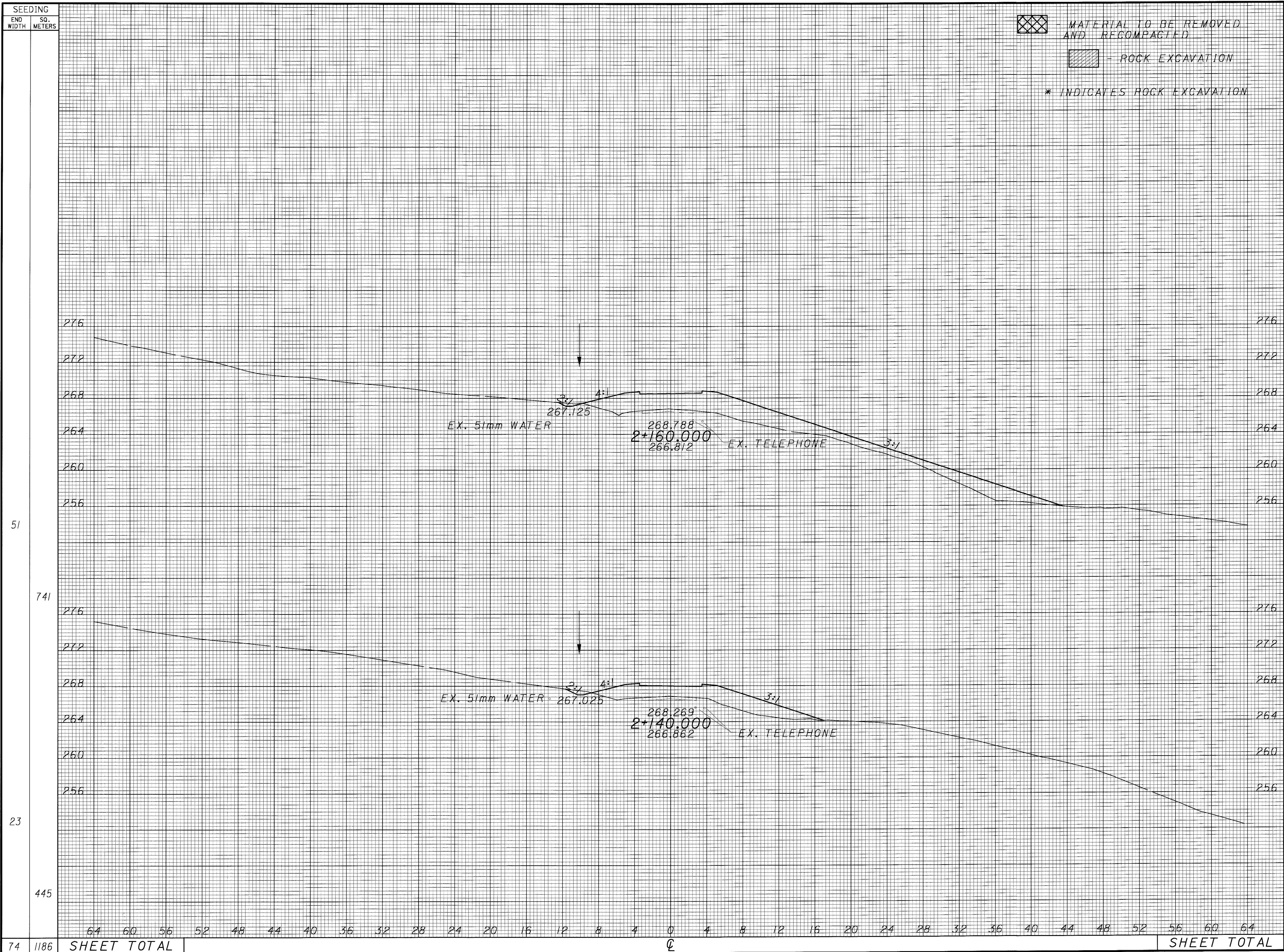
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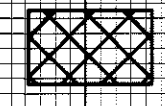
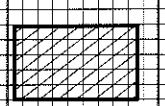
52 1027 SHEET TOTAL

SHEET TOTAL

Q





 MATERIAL TO BE REMOVED AND RECOMPACTED  
 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA		VOLUME		CALCULATED BDD	CHECKED TOW
CUT	FILL	CUT	FILL		
1	73	13	1067		
1	33	198	419		
<b>SHEET TOTAL</b>		211	1486		

CR 89 CROSS SECTIONS  
 STA. 2+140 TO STA. 2+160

ATH-33-40.981

480  
949

02/07/2001 06:50:19 AM  
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SEEDING		STATIONING	ELEVATION	PROPOSED ELEVATION	CUT	FILL	CUT	FILL
END WIDTH	SO. METERS							
74	1186	64	276	276				
		60	272	272				
		56	268	268				
		52	264	264				
		48	260	260				
		44	256	256				
		40	268	268				
		36	264	264				
		32	260	260				
		28	256	256				
		24	268	268				
		20	264	264				
		16	260	260				
		12	256	256				
		8	268	268				
		4	264	264				
		0	260	260				
		4	256	256				
		8	268	268				
		12	264	264				
		16	260	260				
		20	256	256				
		24	268	268				
		28	264	264				
		32	260	260				
		36	256	256				
		40	268	268				
		44	264	264				
		48	260	260				
		52	256	256				
		56	268	268				
		60	264	264				
		64	260	260				
		64	256	256				
			276	276				

51

741

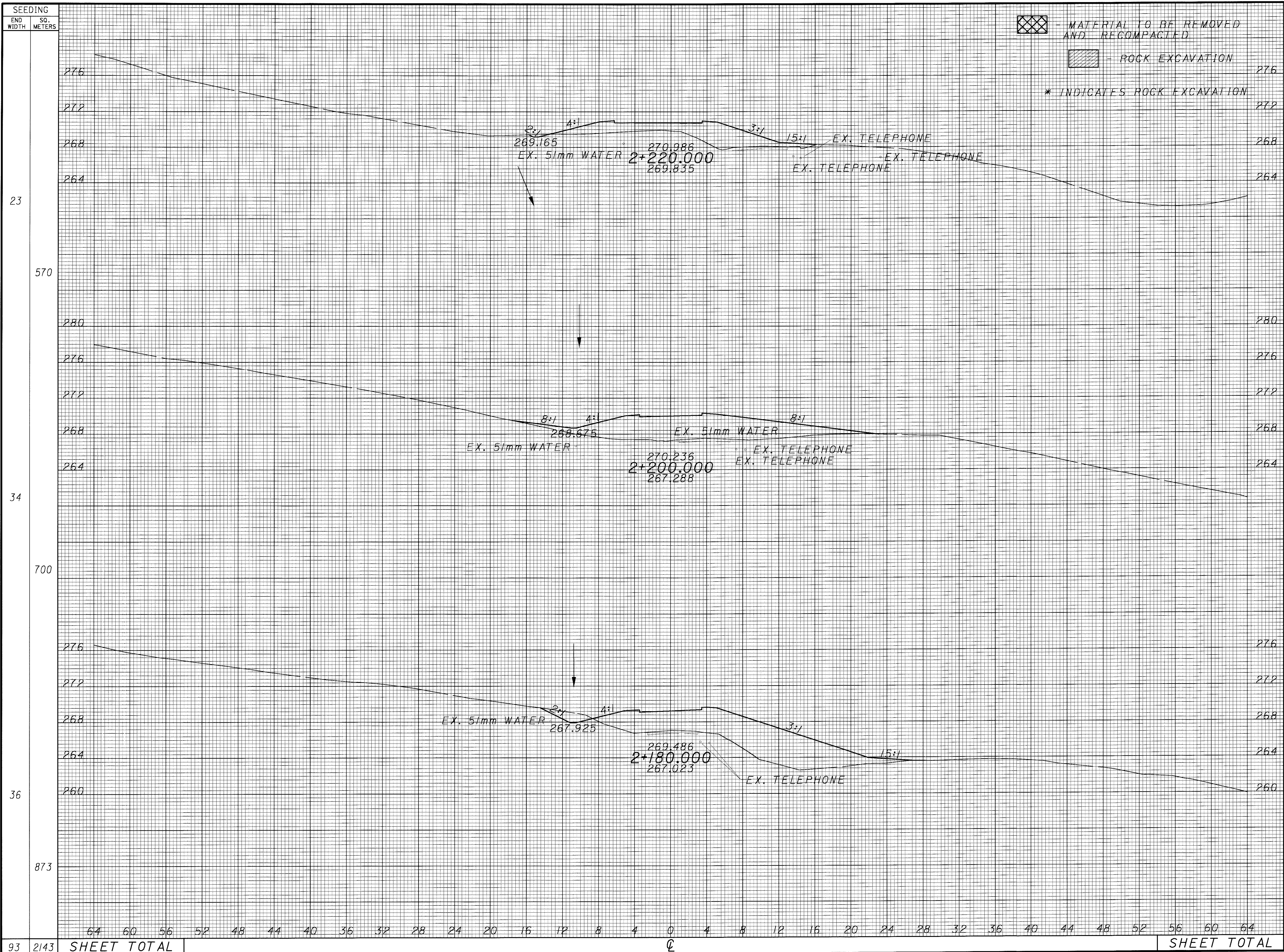
23

445

SHEET TOTAL

SHEET TOTAL

Q



END AREA	VOLUME		CALCULATED	CHECKED	T.W.
	CUT	FILL			
0	34				
4		970			
0	63				
		38	1464		
4	83				
		43	1564		
85	3998				

CR 89 CROSS SECTIONS  
STA. 2+180 TO STA. 2+220

ATH-33-40.981

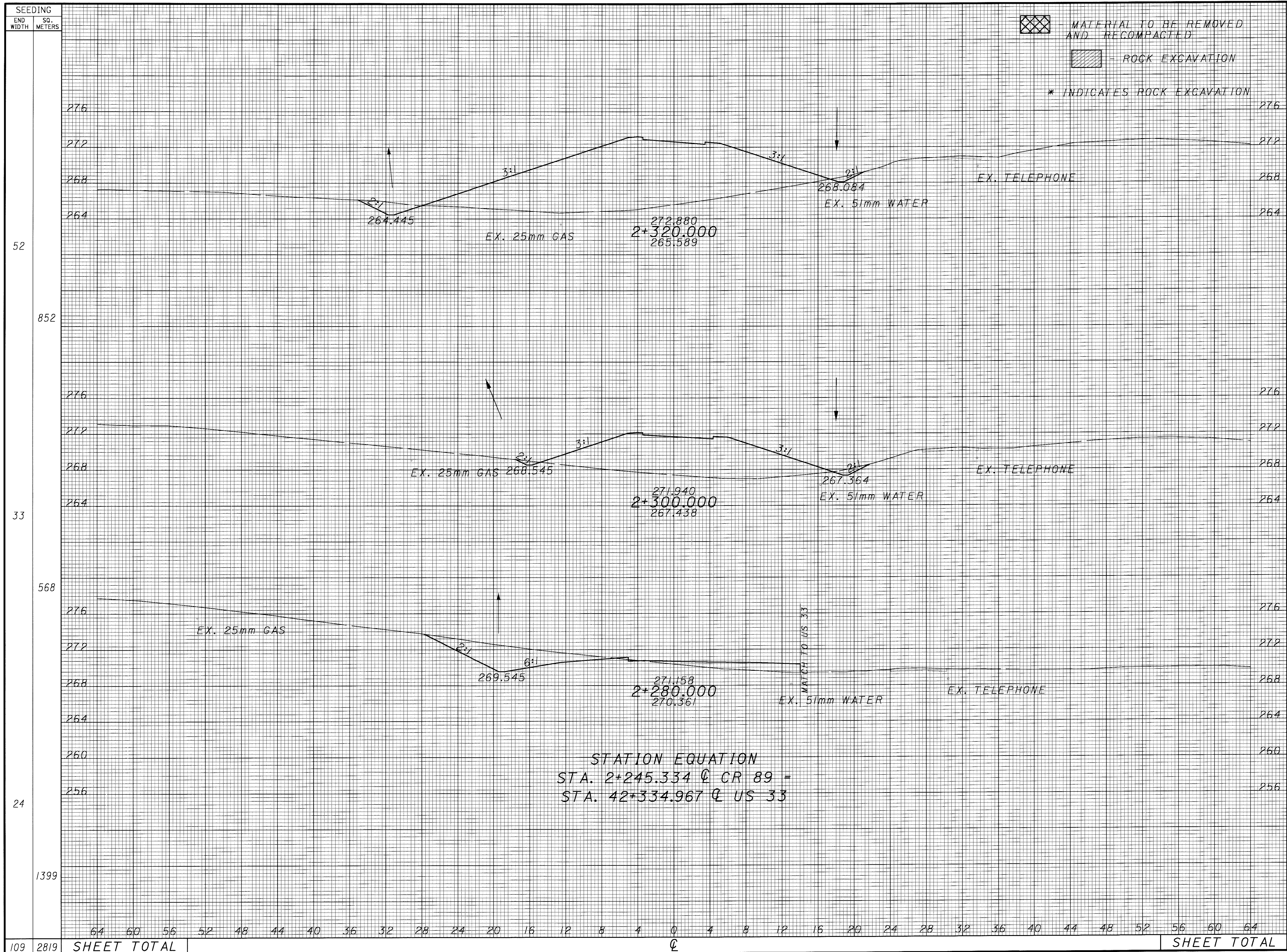
48/949


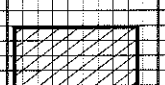
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93 2143 SHEET TOTAL

SHEET TOTAL

Q



 MATERIAL TO BE REMOVED AND RECOMPACTED  
 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
7	209				
87	3061				
2	97				
319	1084				
30	11				
0	0				
406	4145				

CR 89 CROSS SECTIONS  
 STA. 2+280 TO STA. 2+320

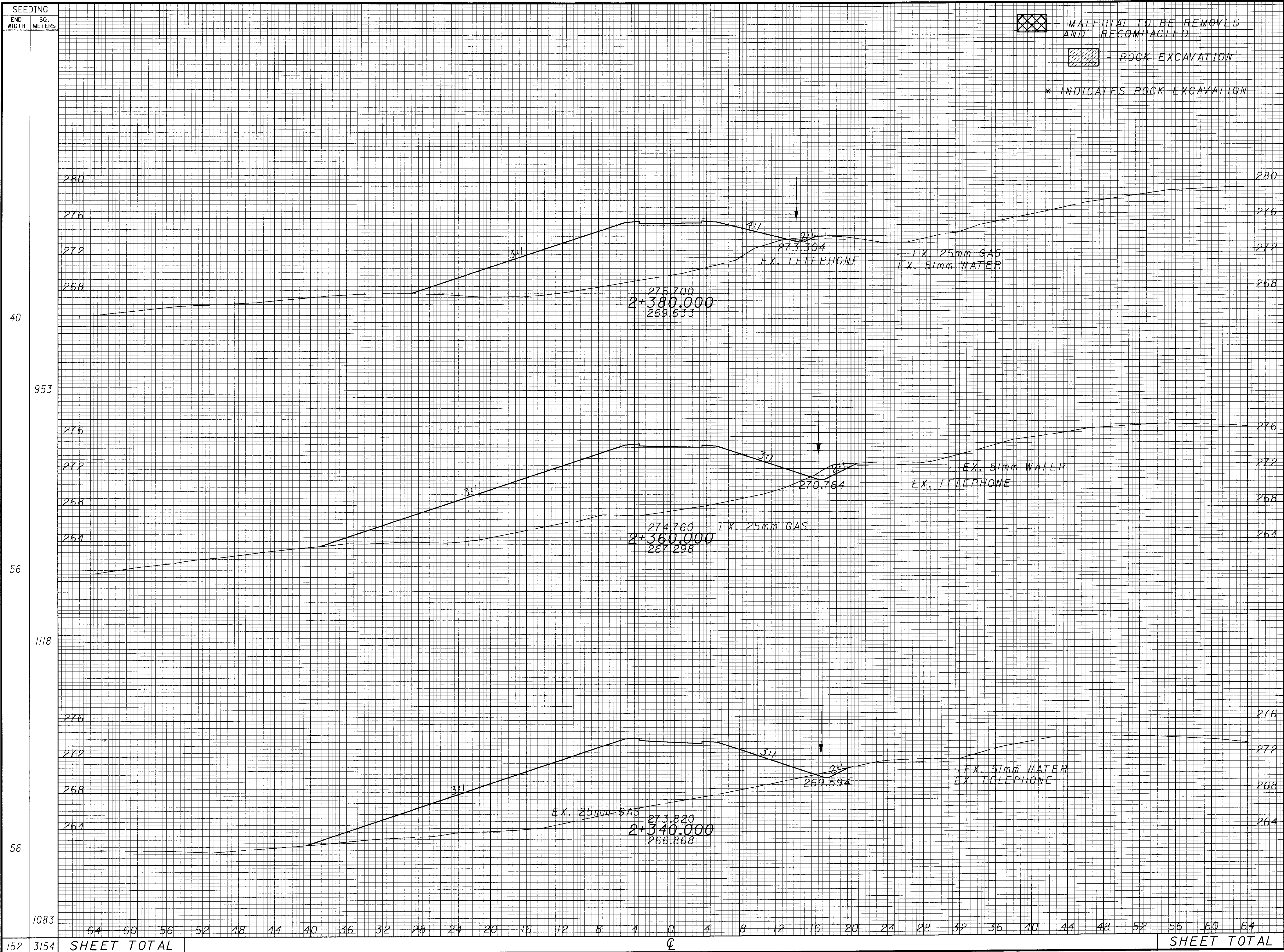
ATH-33-40.981

482  
 949

STATION EQUATION  
 STA. 2+245.334 @ CR 89 =  
 STA. 42+334.967 @ US 33

SEEDING	SO. END WIDTH	METERS
	64	60
	56	52
	48	44
	40	36
	32	28
	24	20
	16	12
	8	4
	0	0
	4	8
	12	16
	20	24
	28	32
	36	40
	44	48
	52	56
	60	64
109	2819	SHEET TOTAL

02/07/2001 06:50:01 PM  
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END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
1	171				
4	258	45	4292		
1	258	48	5156		
1	258	78	4667		
<b>171</b>	<b>14115</b>				

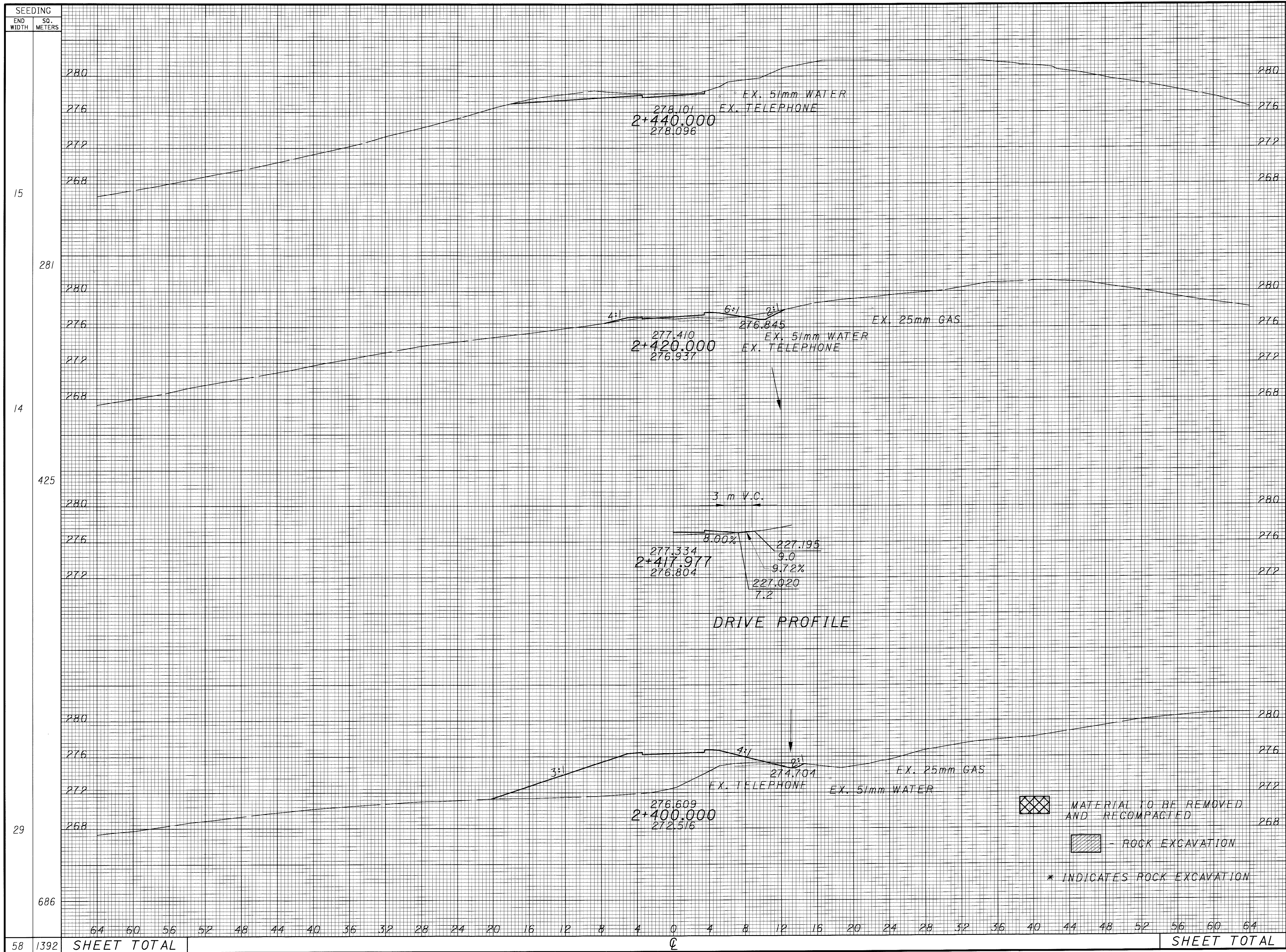
**CR 89 CROSS SECTIONS**  
**STA. 2+340 TO STA. 2+380**  
**ATH-33-40.981**  
 483  
 949

02/07/2001  
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152 3154 SHEET TOTAL

SHEET TOTAL

Q



SEEDING END WIDTH 50 METERS	END AREA		VOLUME		CALCULATED BDD	CHECKED TDW
	CUT	FILL	CUT	FILL		
15		9		0		
281				109		36
14		2		4		
425				31		794
29		1		76		
686				21		2470
<b>58</b>	<b>1392</b>	<b>SHEET TOTAL</b>				
				<b>161</b>	<b>3300</b>	

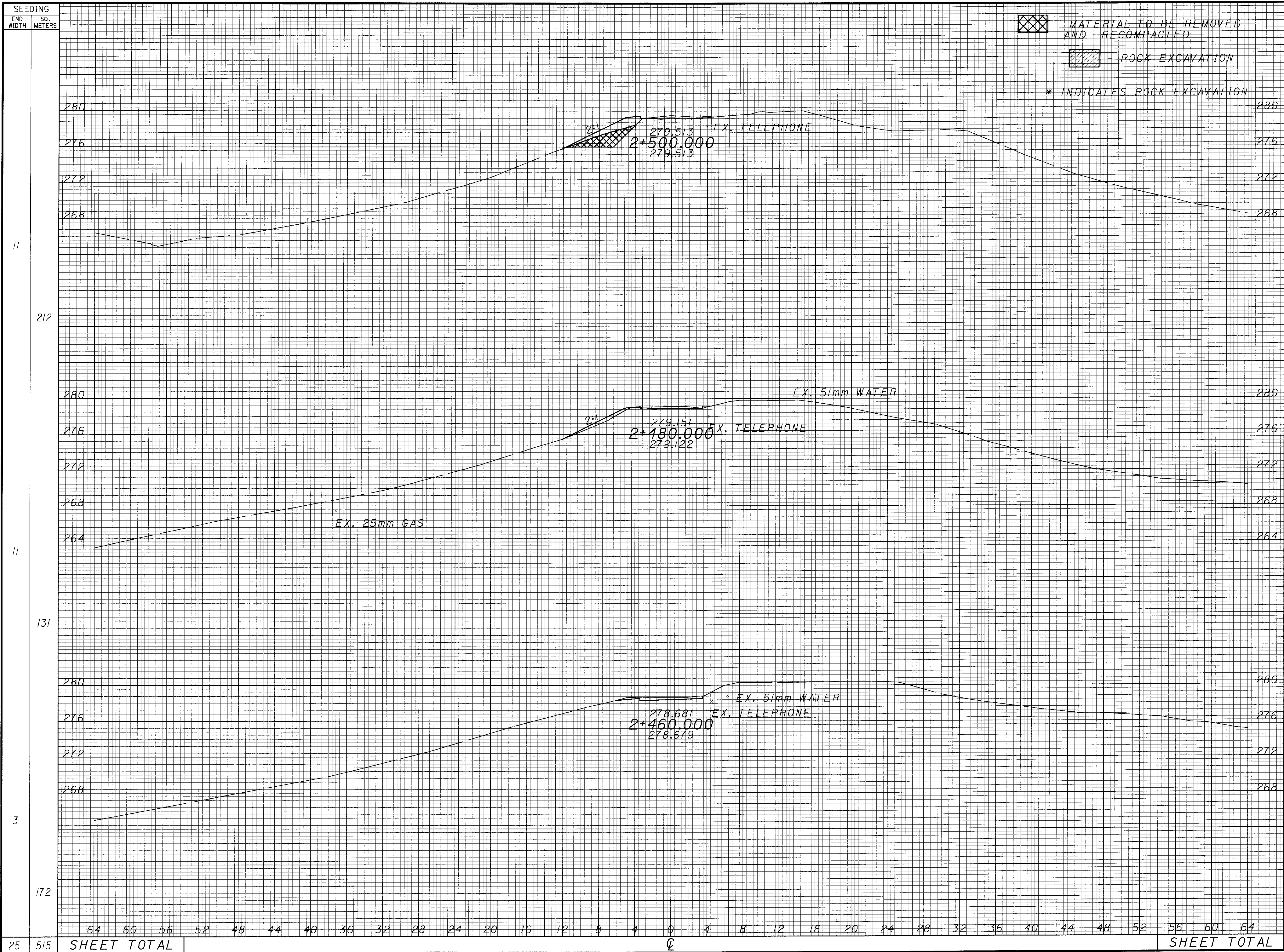
**CR 89 CROSS SECTIONS  
 STA. 2+400 TO STA. 2+440**

**ATH-33-40.981**

484  
 949

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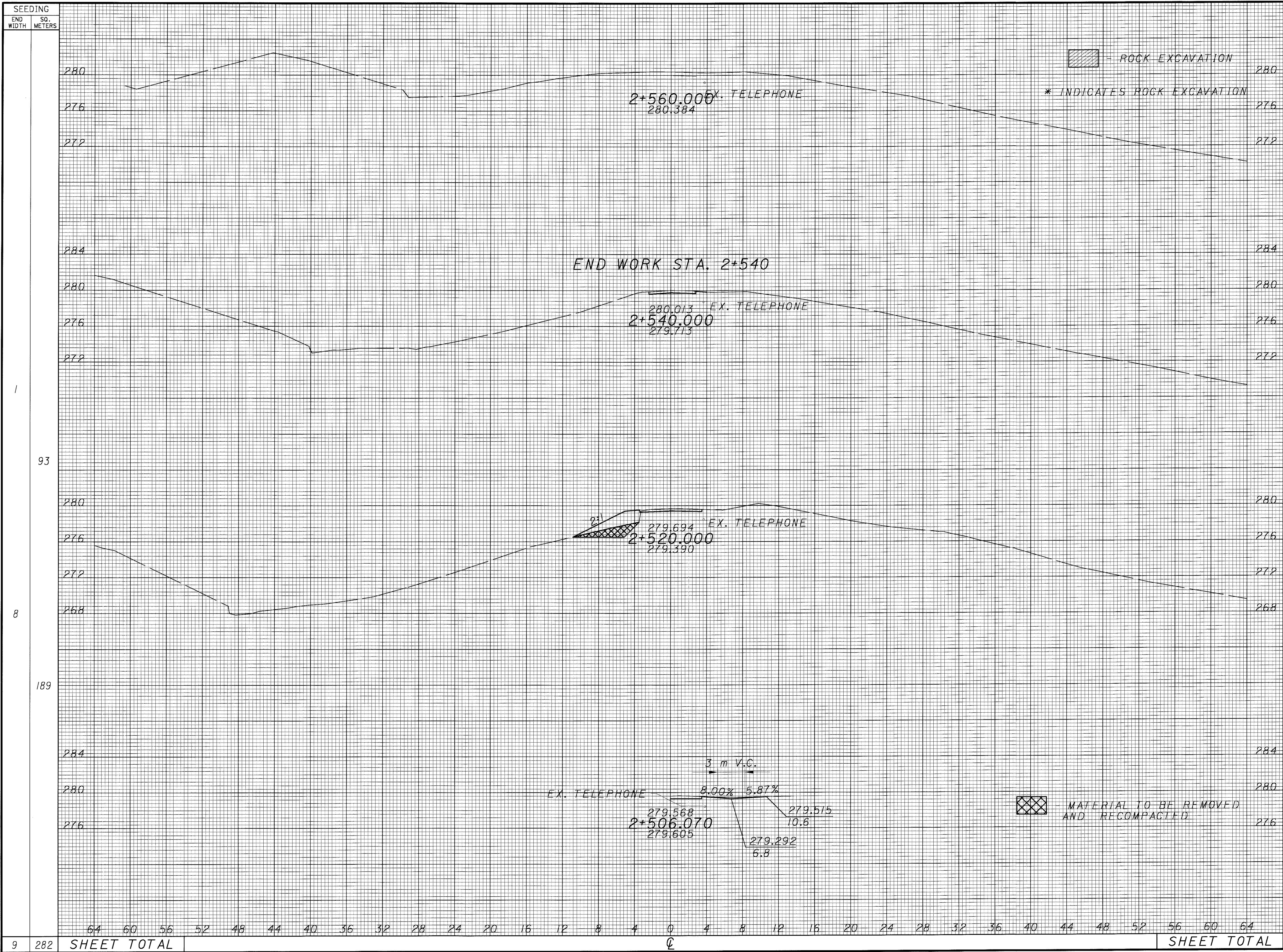
Q



END AREA	VOLUME	CUT		FILL	
		CUT	FILL	CUT	FILL
8	12				
90	140				
1	2				
34	22				
2	0				
112	0				
<b>SHEET TOTAL</b>		236	162		

CALCULATED BBD CHECKED TDW  
**CR 89 CROSS SECTIONS STA. 2+460 TO STA. 2+500**  
**ATH-33-40.981**  
 485 / 949

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END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
1	0				
80	120				
7	12				
150	240				
<b>SHEET TOTAL</b>		230	360		

**CR 89 CROSS SECTIONS**  
**STA. 2+506.070 TO STA. 2+560**

**ATH-33-40.981**

486  
 949

02/07/2001  
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9 282 SHEET TOTAL

SHEET TOTAL



0 20  
1:5000  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
BDD  
CHECKED  
TOW

TR 412 PLAN & PROFILE  
STA 11+000 TO STA 11+230

ATH-33-40.981

487  
949

LEGEND

- 670 DITCH EROSION PROT.
- 60I ROCK CHANNEL PROT.

FOR MAINLINE DETAILS  
SEE SHEET 177

FOR ESTIMATED QUANTITIES  
SEE SHEET 537

FOR PAVEMENT QUANTITIES  
SEE SHEET 138

CURVE DATA No 2 TR 412

P.I. STA 11+213.774  
 $\Delta$  = 31°39'17" LT.  
 R = 20.000m  
 T = 5.670 m  
 L = 11.050 m  
 E = 0.788 m

CURVE DATA No 1 TR 412

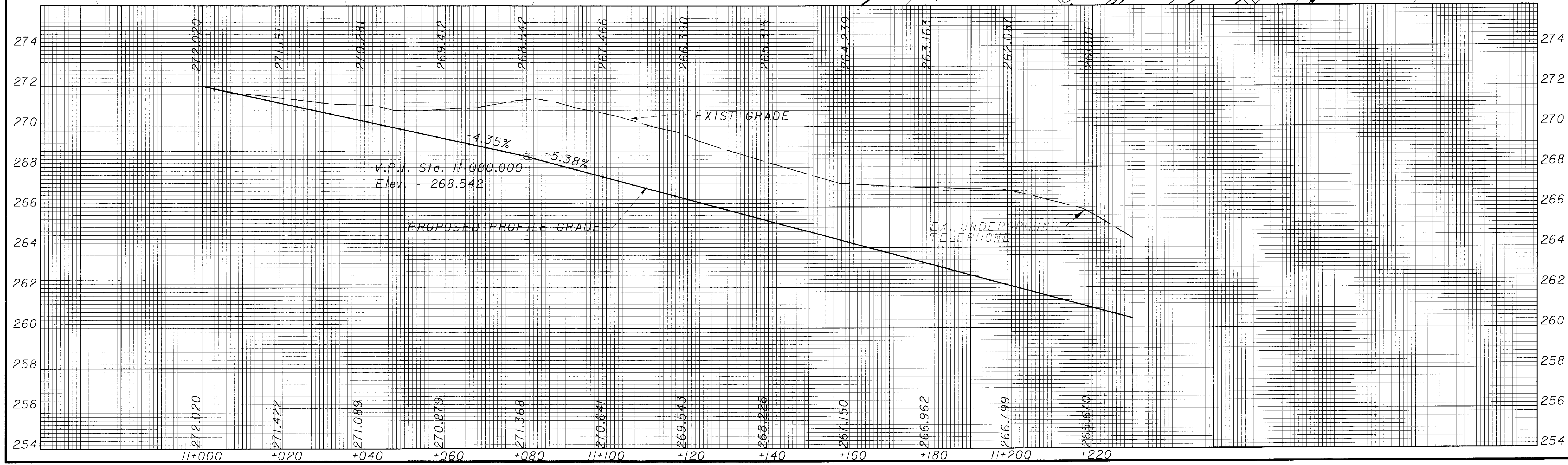
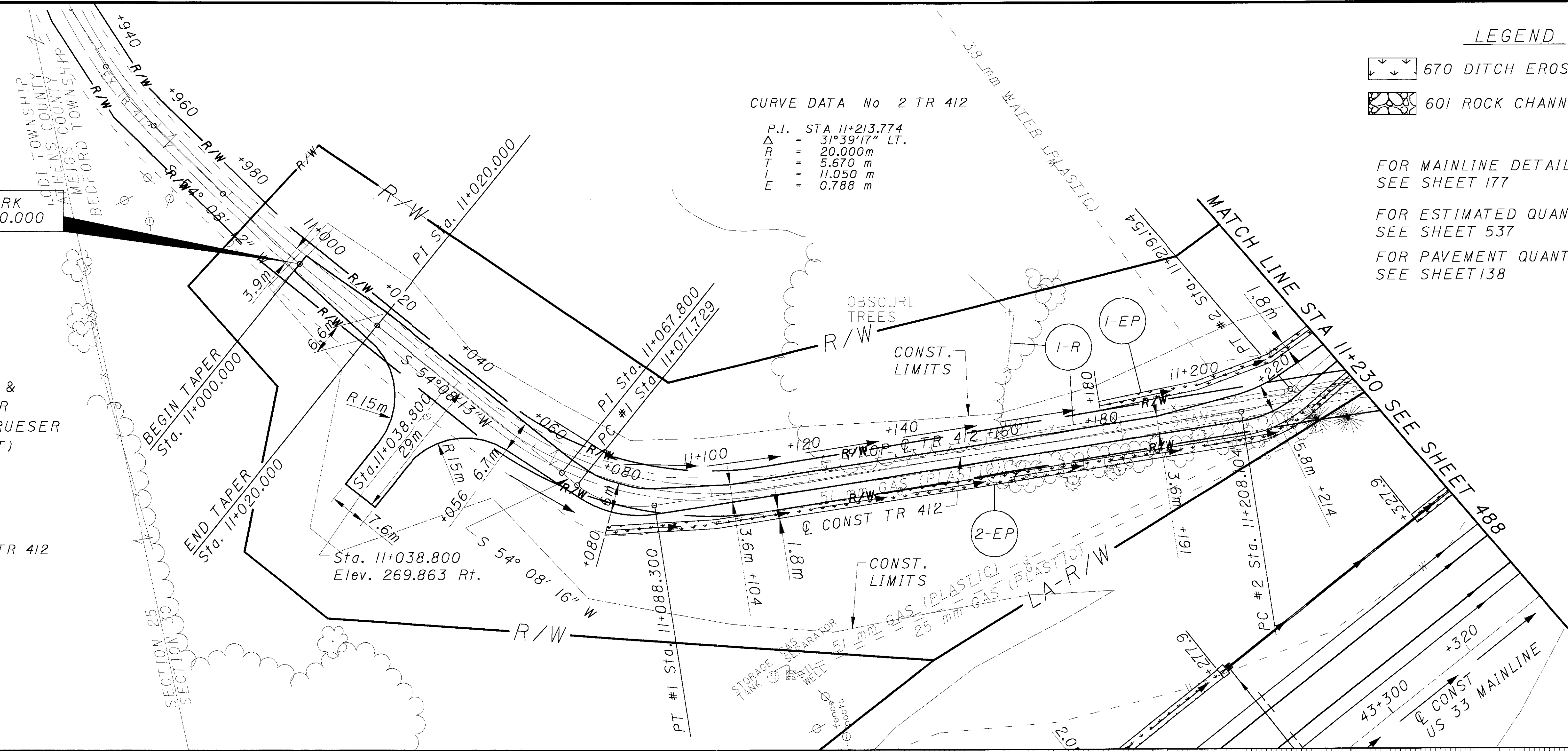
P.I. STA 11+080.524  
 $\Delta$  = 47°28'21" LT  
 R = 20.000m  
 T = 8.795m  
 L = 16.571m  
 E = 1.848m

MARK A. GRUESER &  
 NANCY S. GRUESER  
 (TRUSTEES, MARK A. GRUESER  
 TRUST AGREEMENT)

BEGIN WORK  
STA 11+000.000

BEGIN TAPER  
Sta. 11+000.000

END TAPER  
Sta. 11+020.000



02/07/01  
 05:01:25 PM  
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MARK A. GRUESER &  
NANCY S. GRUESER (TRUSTEES,  
MARK A. GRUESER TRUST AGREEMENT)

CURVE DATA No 3 TR 412

P.I. STA 11+307.657  
 $\Delta R = 86^{\circ}57'32''$  RT.  
 $R = 20.000$  m  
 $T = 18.966$  m  
 $L = 30.354$  m  
 $E = 7.563$  m

LEGEND

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

FOR MAINLINE DETAILS  
SEE SHEET 177

FOR BOX CULVERT DETAILS  
SEE SHEETS 635 TO 638

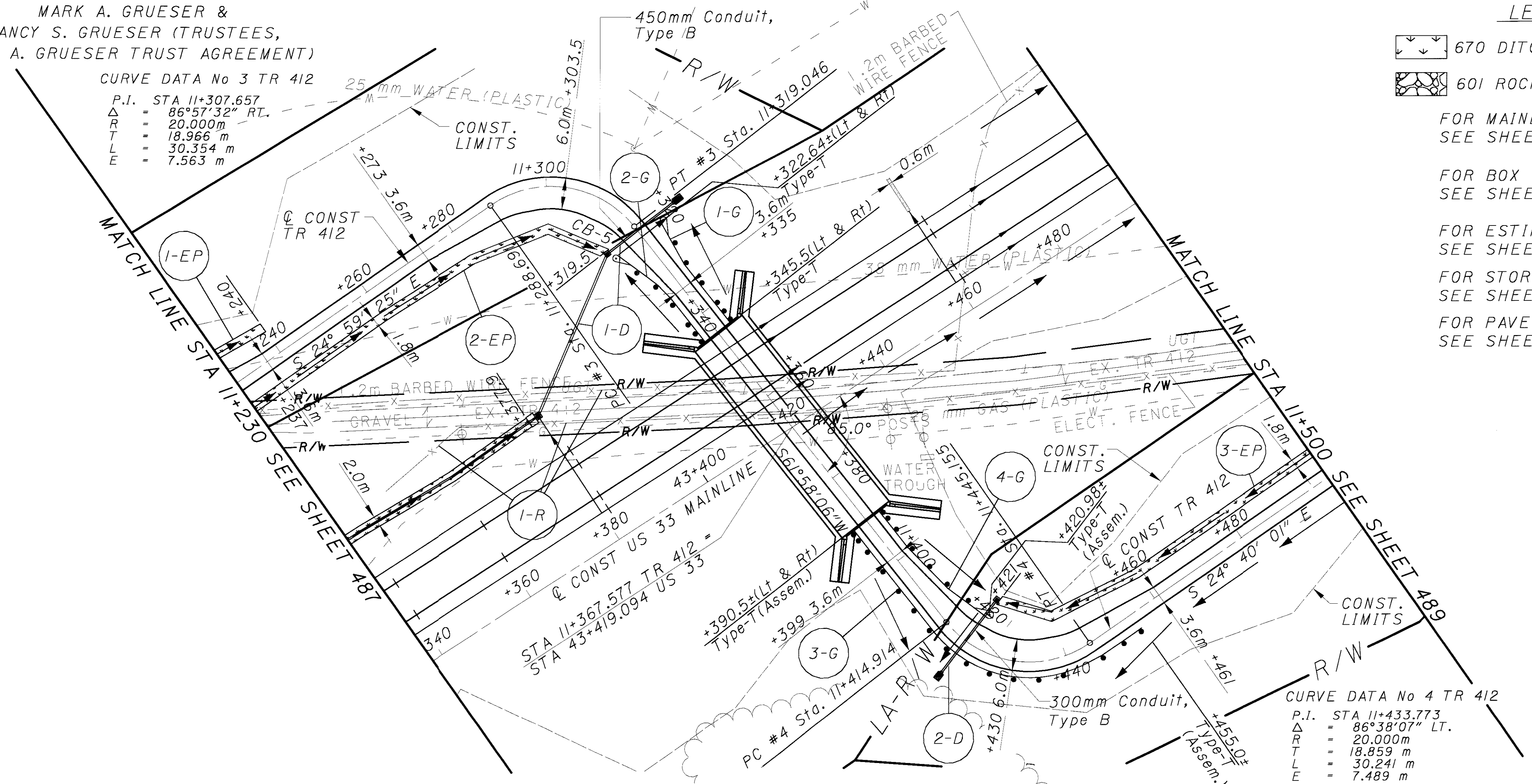
FOR ESTIMATED QUANTITIES  
SEE SHEET 537

FOR STORM SEWER PROFILES  
SEE SHEETS 496 & 498

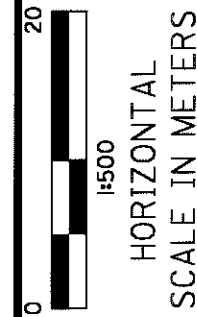
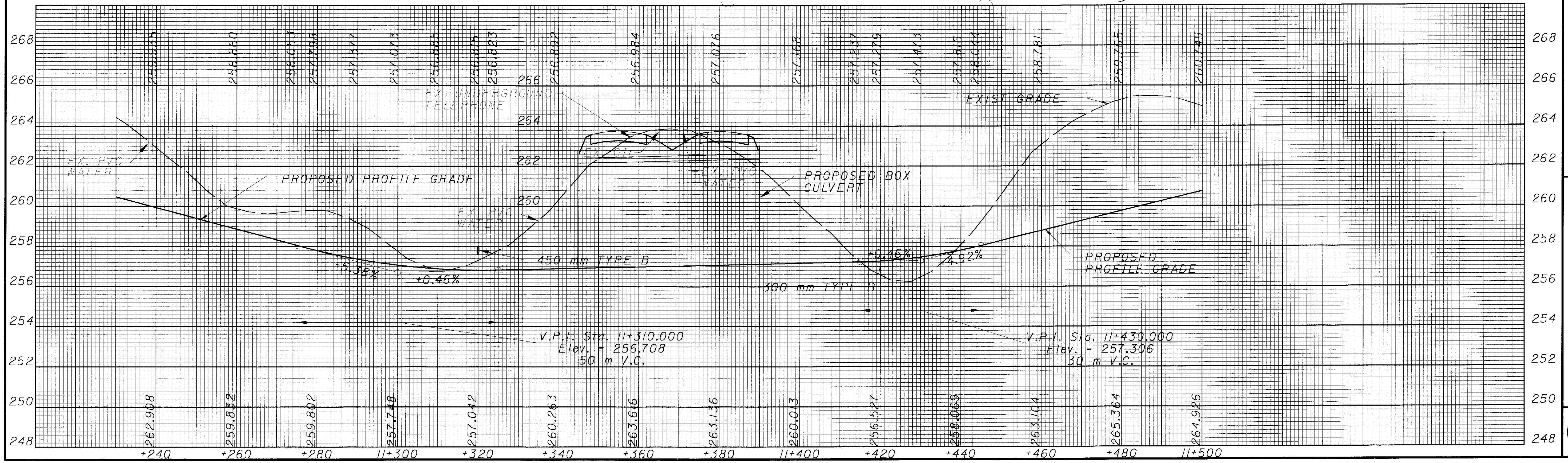
FOR PAVEMENT QUANTITIES  
SEE SHEET 138

MATCH LINE STA 11+230 SEE SHEET 487

MATCH LINE STA 11+500 SEE SHEET 489



CURVE DATA No 4 TR 412  
P.I. STA 11+433.773  
 $\Delta R = 86^{\circ}38'07''$  LT.  
 $R = 20.000$  m  
 $T = 18.859$  m  
 $L = 30.241$  m  
 $E = 7.489$  m



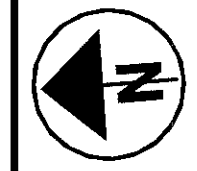
CALCULATED  
BBD  
CHECKED  
TOW

TR 412 PLAN & PROFILE  
STA 11+230 TO STA 11+500

ATH-33-40.981

488  
949

02/07/01  
05:01:27 PM  
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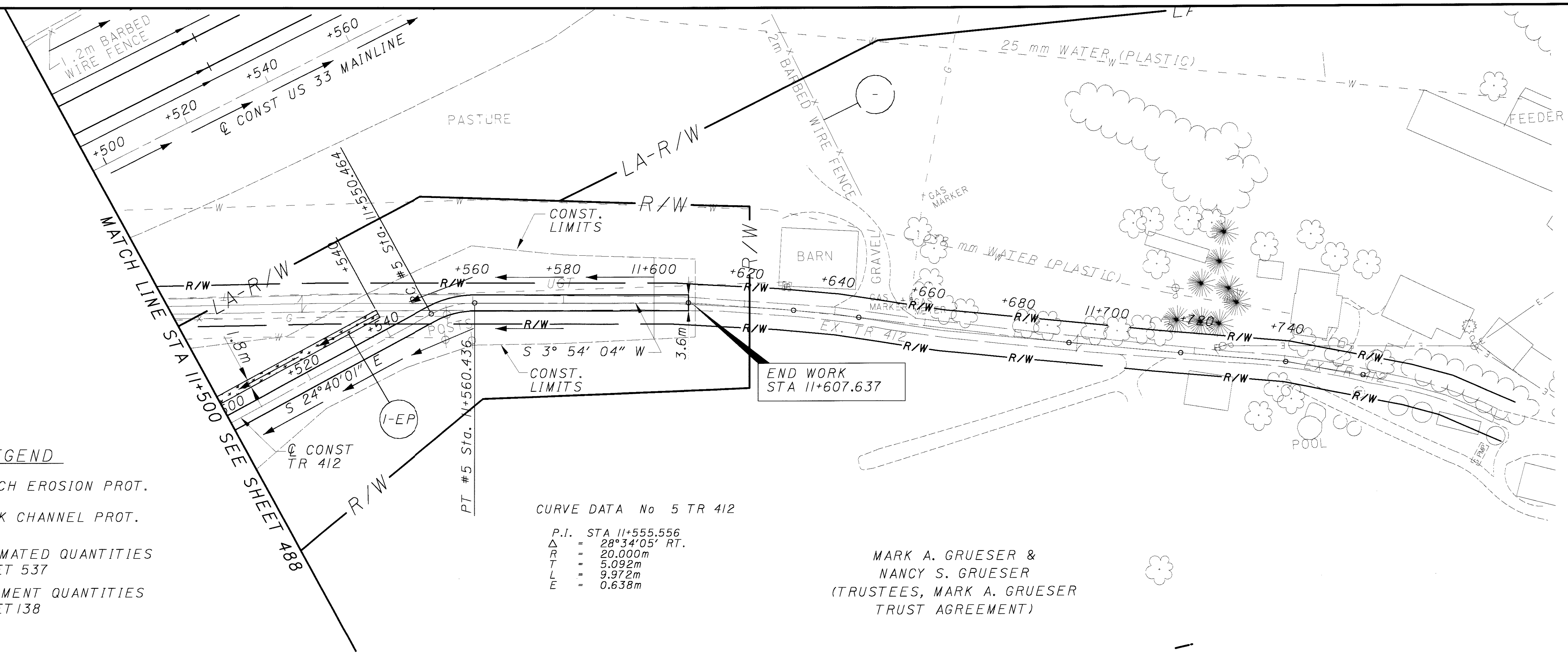
20  
1500  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
BDD  
CHECKED  
TDW

TR 412 PLAN & PROFILE  
STA 11+500 TO STA 11+607.637

ATH-33-40.981

489  
949



**LEGEND**

- 670 DITCH EROSION PROT.
- 601 ROCK CHANNEL PROT.

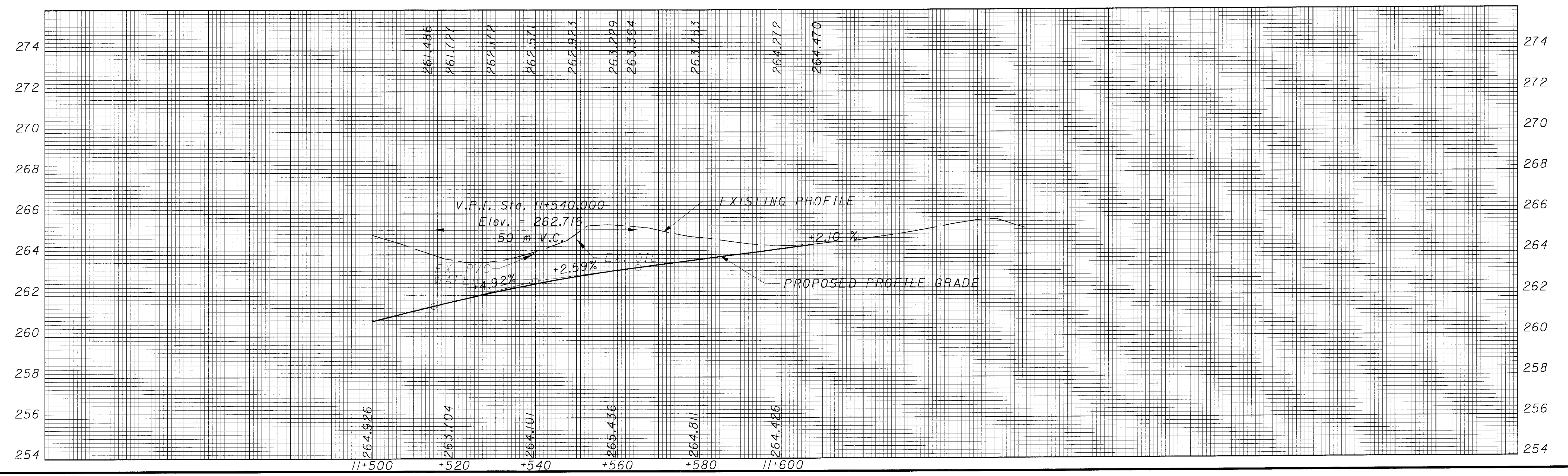
FOR ESTIMATED QUANTITIES  
SEE SHEET 537

FOR PAVEMENT QUANTITIES  
SEE SHEET 138

**CURVE DATA No 5 TR 412**

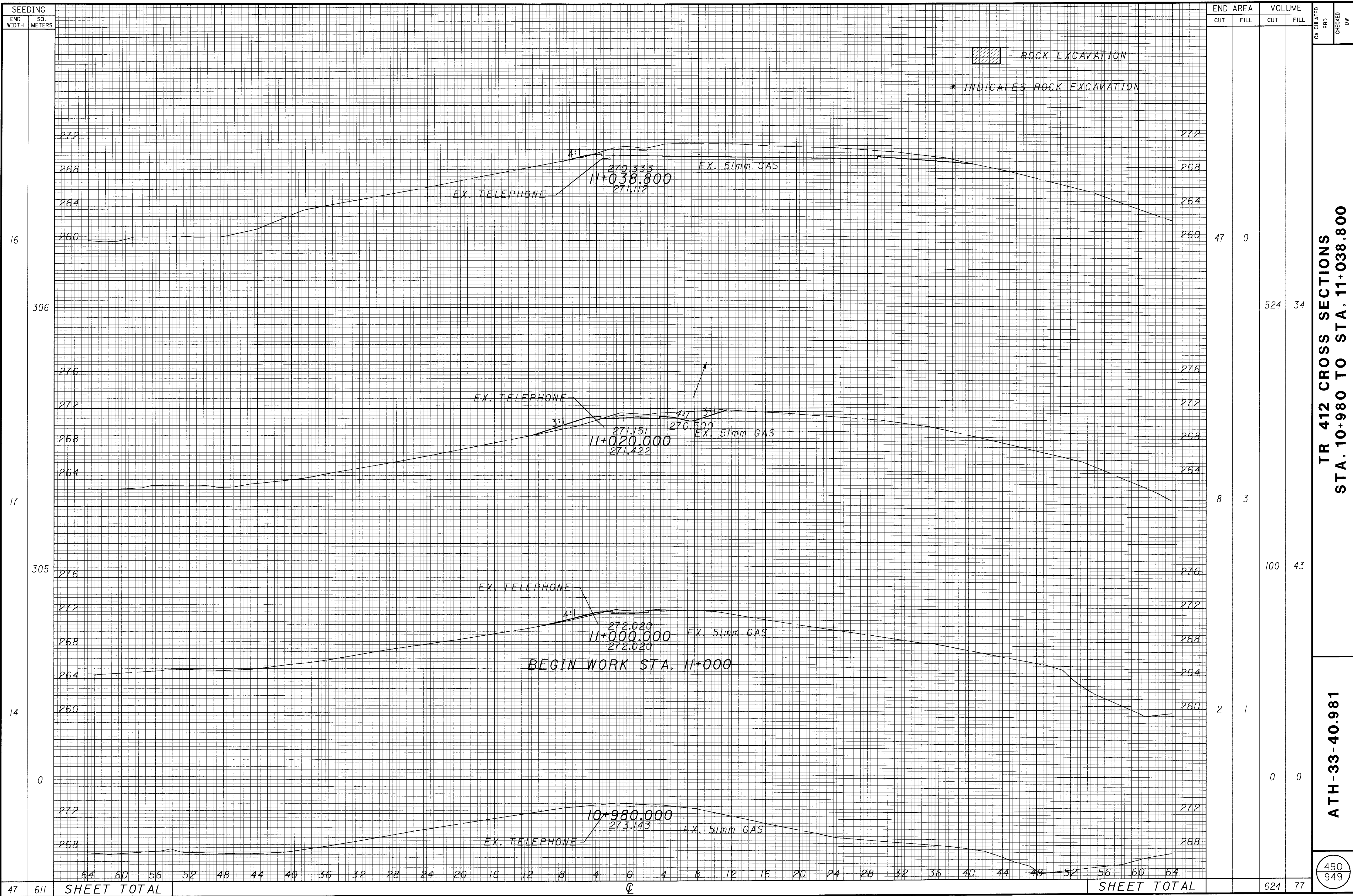
- P.I. = STA 11+555.556
- Δ = 28°34'05" RT.
- R = 20.000m
- T = 5.092m
- L = 9.972m
- E = 0.638m

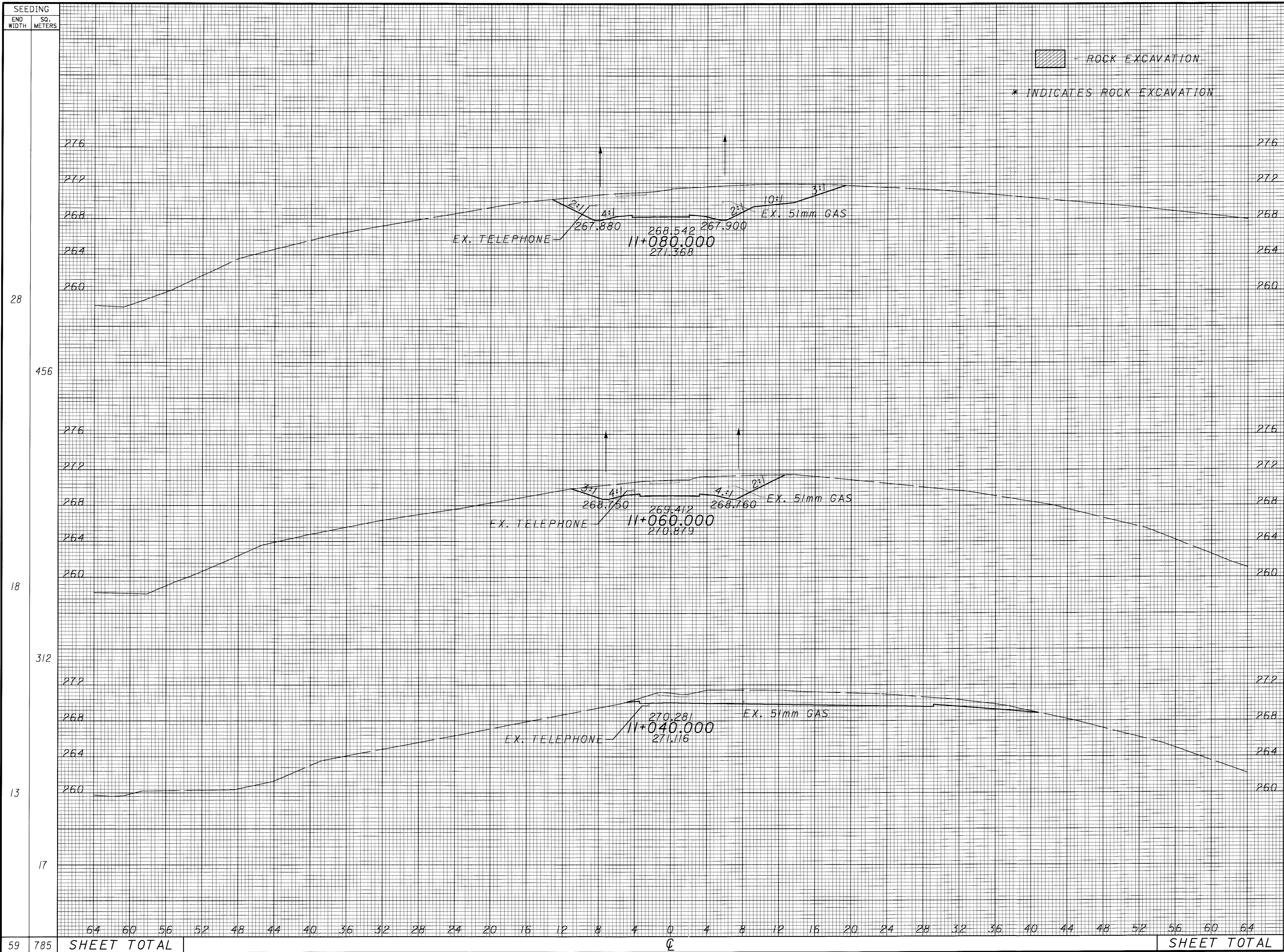
MARK A. GRUESER &  
NANCY S. GRUESER  
(TRUSTEES, MARK A. GRUESER  
TRUST AGREEMENT)



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05:01:29 PM  
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02/07/01  
05:01:30 PM  
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▨ - ROCK EXCAVATION  
\* INDICATES ROCK EXCAVATION

END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	BY	BY
76	0								
1118	0								
36	0								
859	0								
50	0								
58	0								
<b>2035</b>	<b>0</b>								

TR 412 CROSS SECTIONS  
STA. 11+040 TO STA. 11+080

ATH-33-40.981

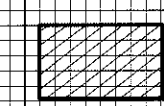
491  
949

02/07/2001  
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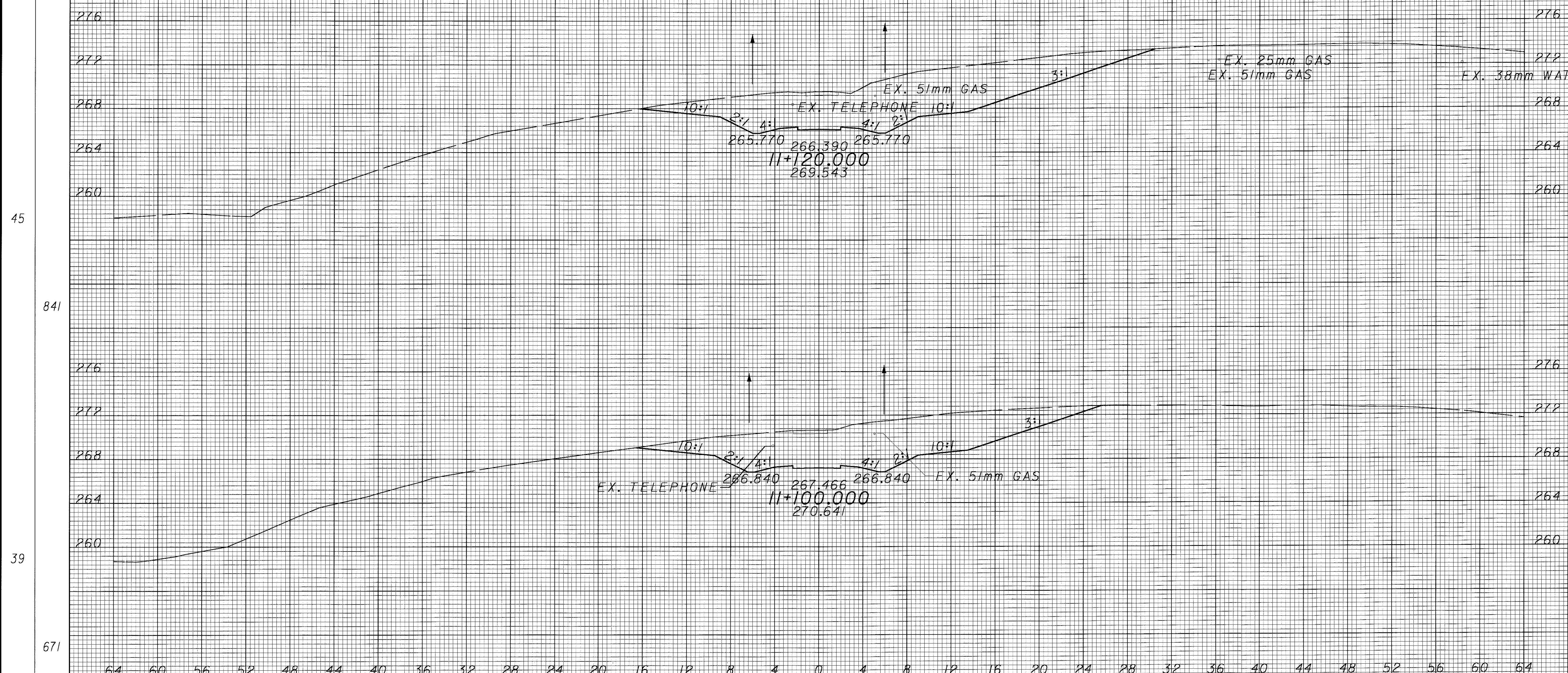
SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BDD  
CHECKED  
TDW

 - ROCK EXCAVATION

\* INDICATES ROCK EXCAVATION



END AREA	VOLUME
CUT	FILL
126	0
2346	0
108	0
1837	0
<b>4183</b>	<b>0</b>

TR 412 CROSS SECTIONS  
STA. 11+100 TO STA. 11+120

ATH-33-40.981

492  
949

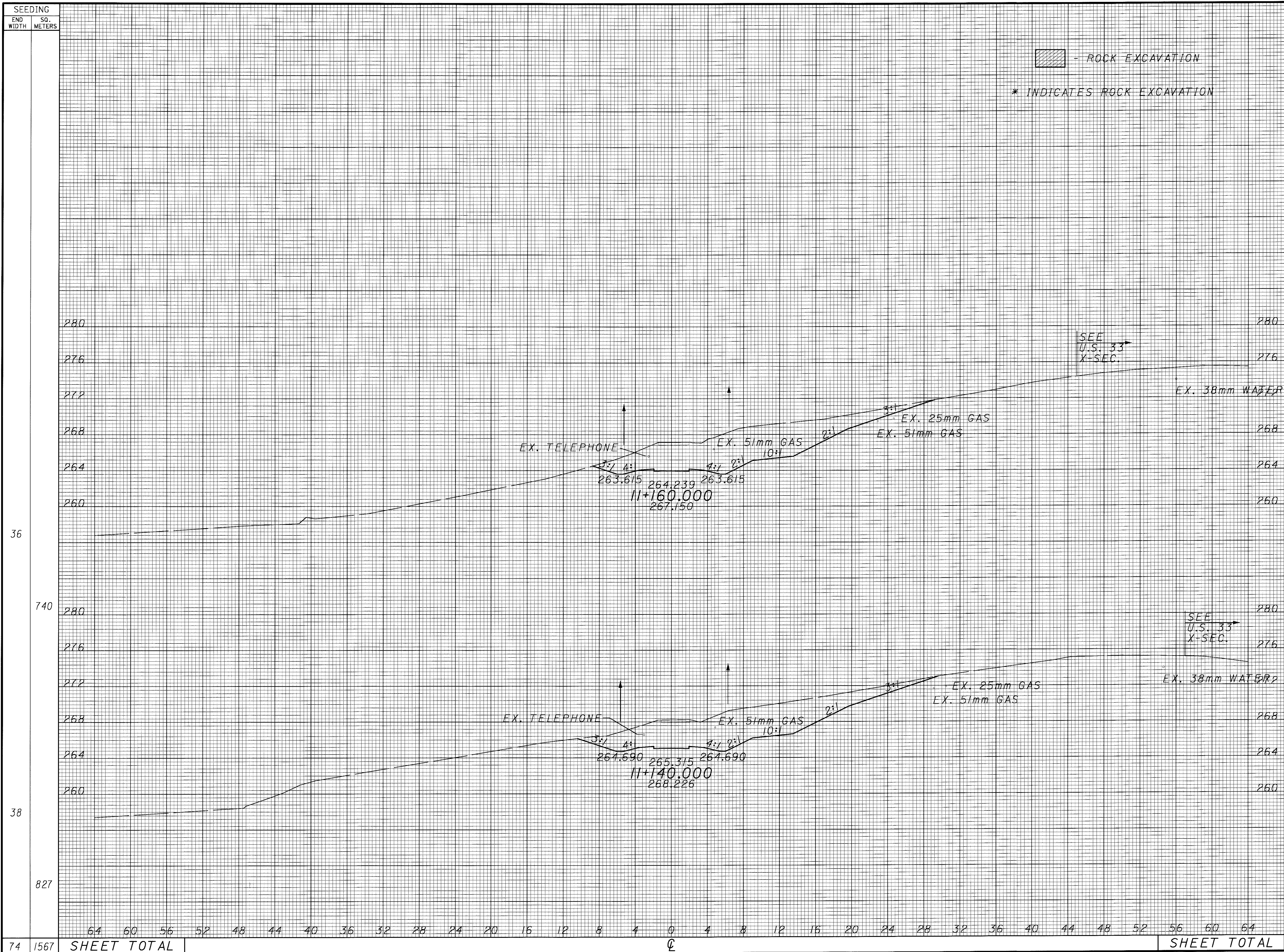
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84 1512

SHEET TOTAL

SHEET TOTAL

Q



END AREA	VOLUME	CALCULATED	CHECKED
90	0		
1816	0		
91	0		
2178	0		
<b>3994</b>	<b>0</b>		

TR 412 CROSS SECTIONS  
STA. 11+140 TO STA. 11+160

ATH-33-40.981

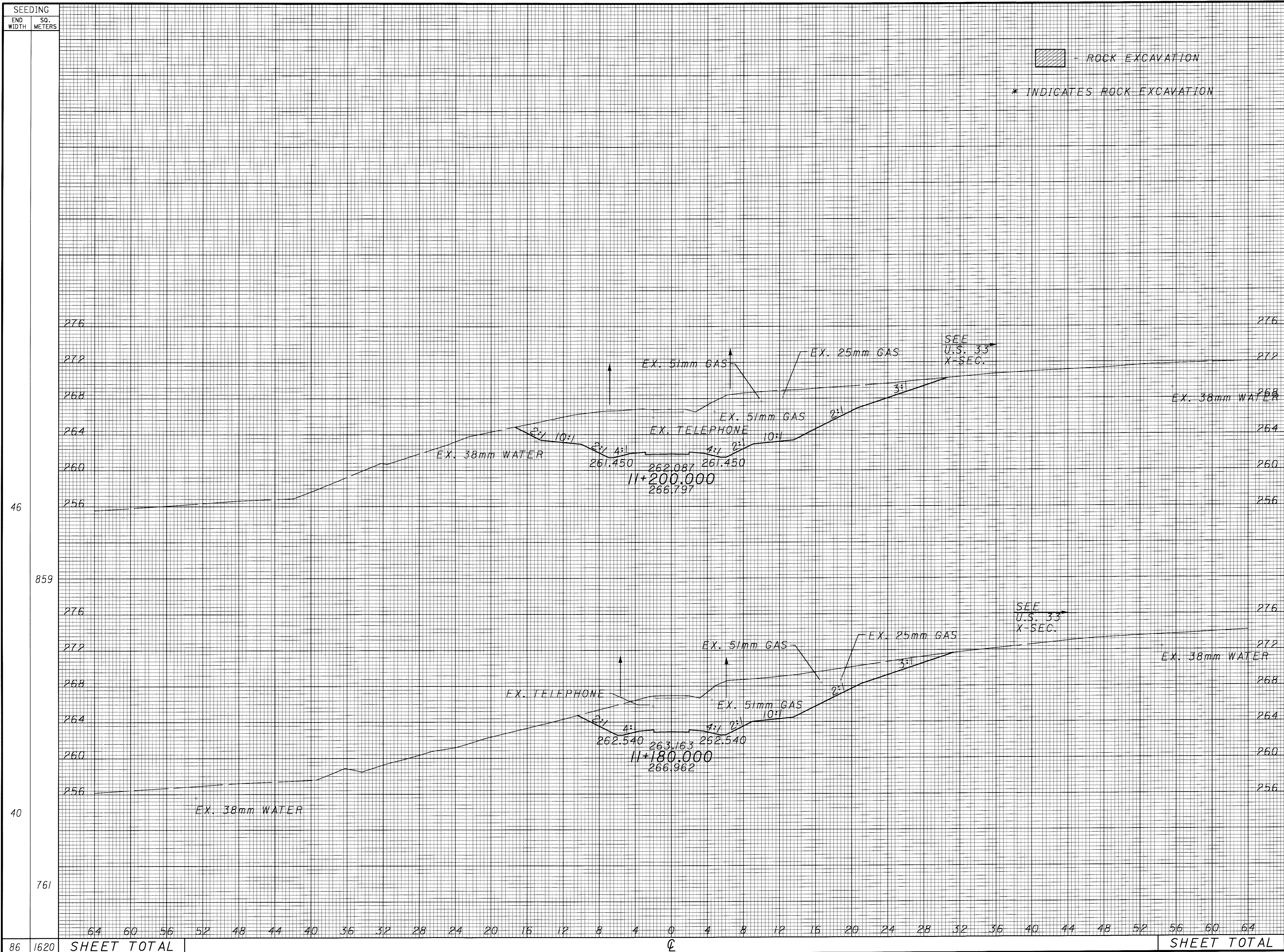
493  
949


02/07/2001  
06:51:02 PM  
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74 1567 SHEET TOTAL

SHEET TOTAL

Q



 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

END AREA	VOLUME	
	CUT	FILL
180	0	0
130	0	0
2201	0	0
5299	0	0

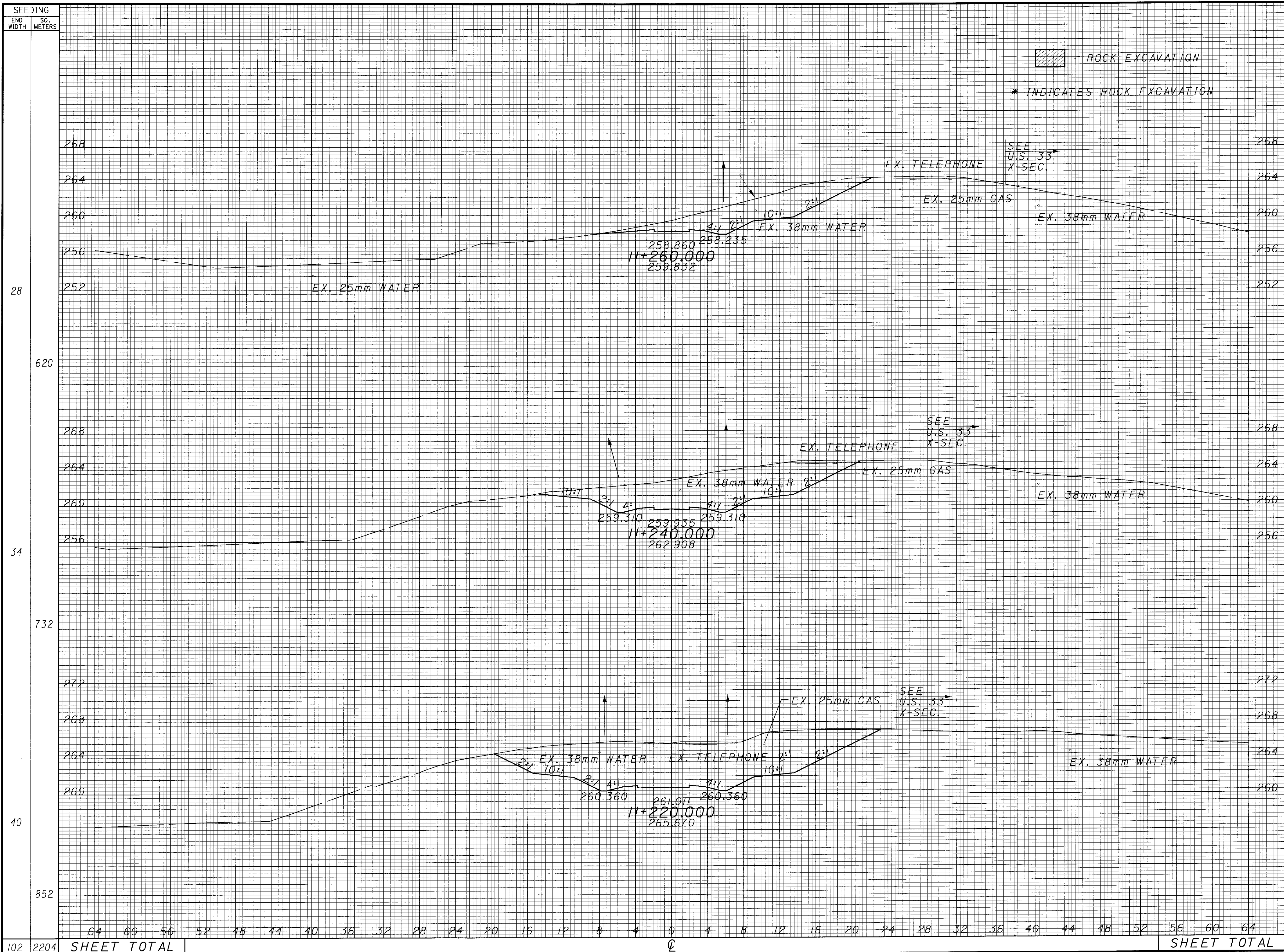
TR 412 CROSS SECTIONS  
STA. 11+180 TO STA. 11+200

ATH-33-40.981

494  
949

02/07/2001 06:51:02 PM  
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86	1620	SHEET TOTAL	64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	SHEET TOTAL
----	------	-------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-------------



SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
28		53	0	1451	0
34		92	0	2559	0
40		163	0	3433	0
852				7443	0

CALCULATED BBD  
 CHECKED TDW  
**TR 412 CROSS SECTIONS  
 STA. 11+220 TO STA. 11+260**  
**ATH-33-40.981**  
 495  
 949

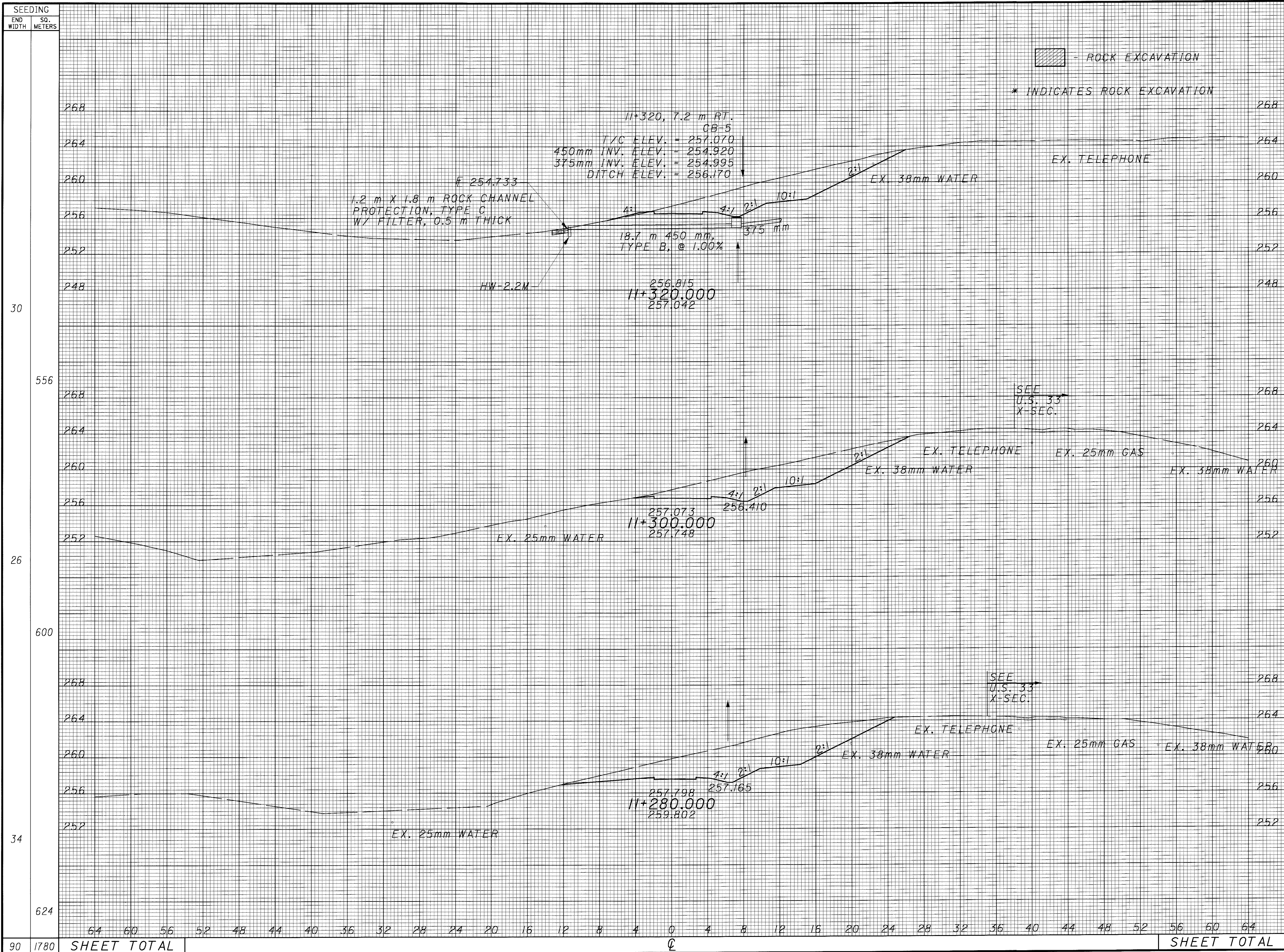
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102 2204 SHEET TOTAL

SHEET TOTAL

Q

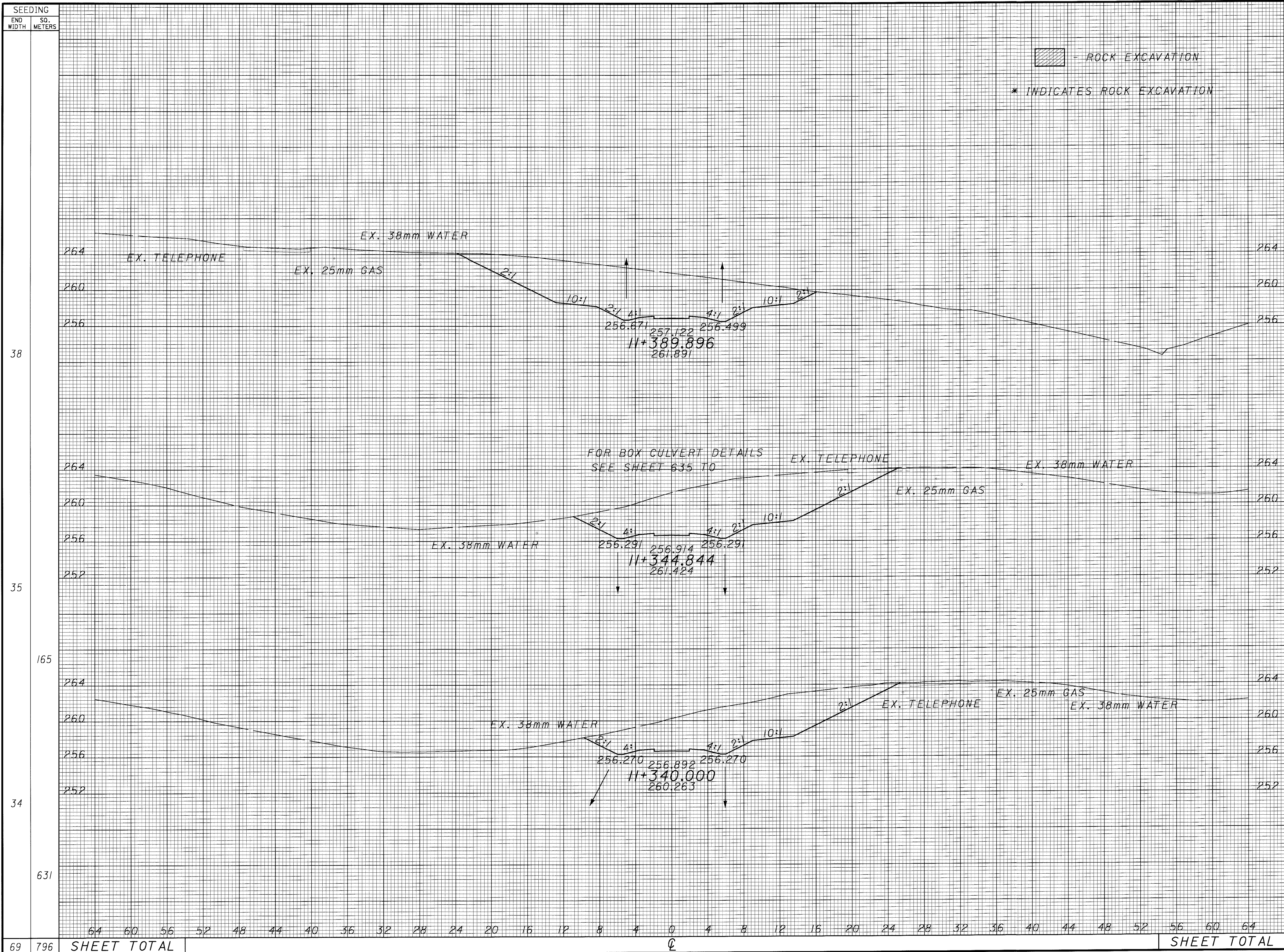


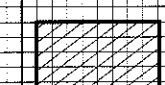


END AREA	VOLUME	
	CUT	FILL
54	0	0
55	0	0
600	1364	0
34	82	0
624	1343	0
<b>SHEET TOTAL</b>	<b>3791</b>	<b>4</b>

CALCULATED BBD  
 CHECKED TDW  
**TR 412 CROSS SECTIONS  
 STA. 11+280 TO STA. 11+320**  
**ATH-33-40.981**  
 496  
 949

02/07/2001 06:51:01 PM  
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 - ROCK EXCAVATION  
 \* INDICATES ROCK EXCAVATION

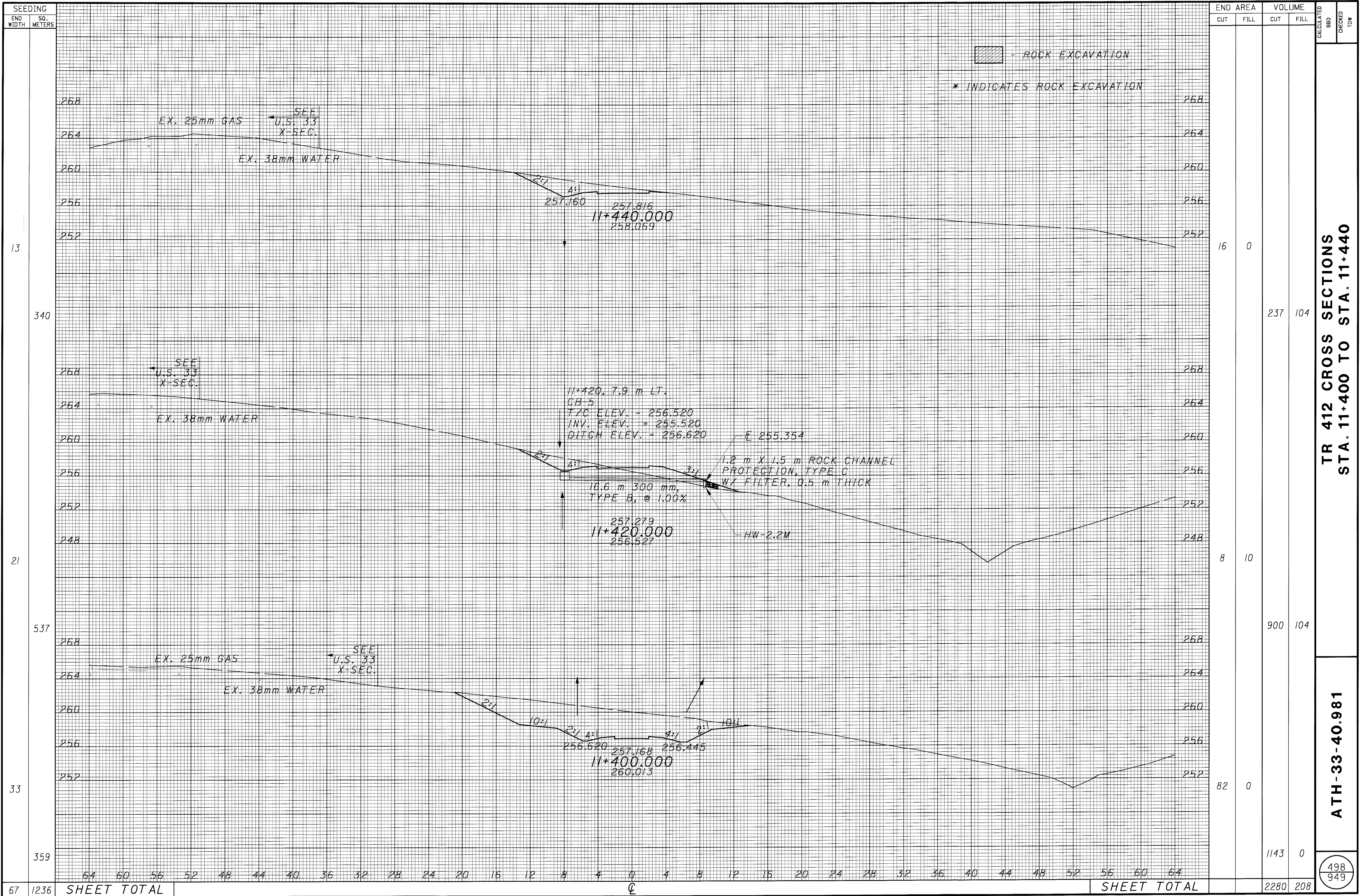
SEEDING		END AREA		VOLUME		CALCULATED BDD	CHECKED TDW
END WIDTH	SO. METERS	CUT	FILL	CUT	FILL		
	38			144	0		
	35			137	0		
	165				605	0	
	34			112	0		
	631				1660	4	
69	796	SHEET TOTAL				2265	4

TR 412 CROSS SECTIONS  
 STA. 11+340.000 TO STA. 11+389.896

ATH-33-40.981

497  
 949

02/07/2001 06:51:02 PM  
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END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
16	0				
237	104				
8	10				
900	104				
82	0				
1143	0				
<b>2280</b>	<b>208</b>				

TR 412 CROSS SECTIONS  
STA. 11+400 TO STA. 11+440

ATH-33-40.981

498  
949

02/07/2001  
06:51:02 PM  
m:\p\o\1382\1016-00\dsl\tr-412\lxsht.dgn


67 1236 SHEET TOTAL

SHEET TOTAL

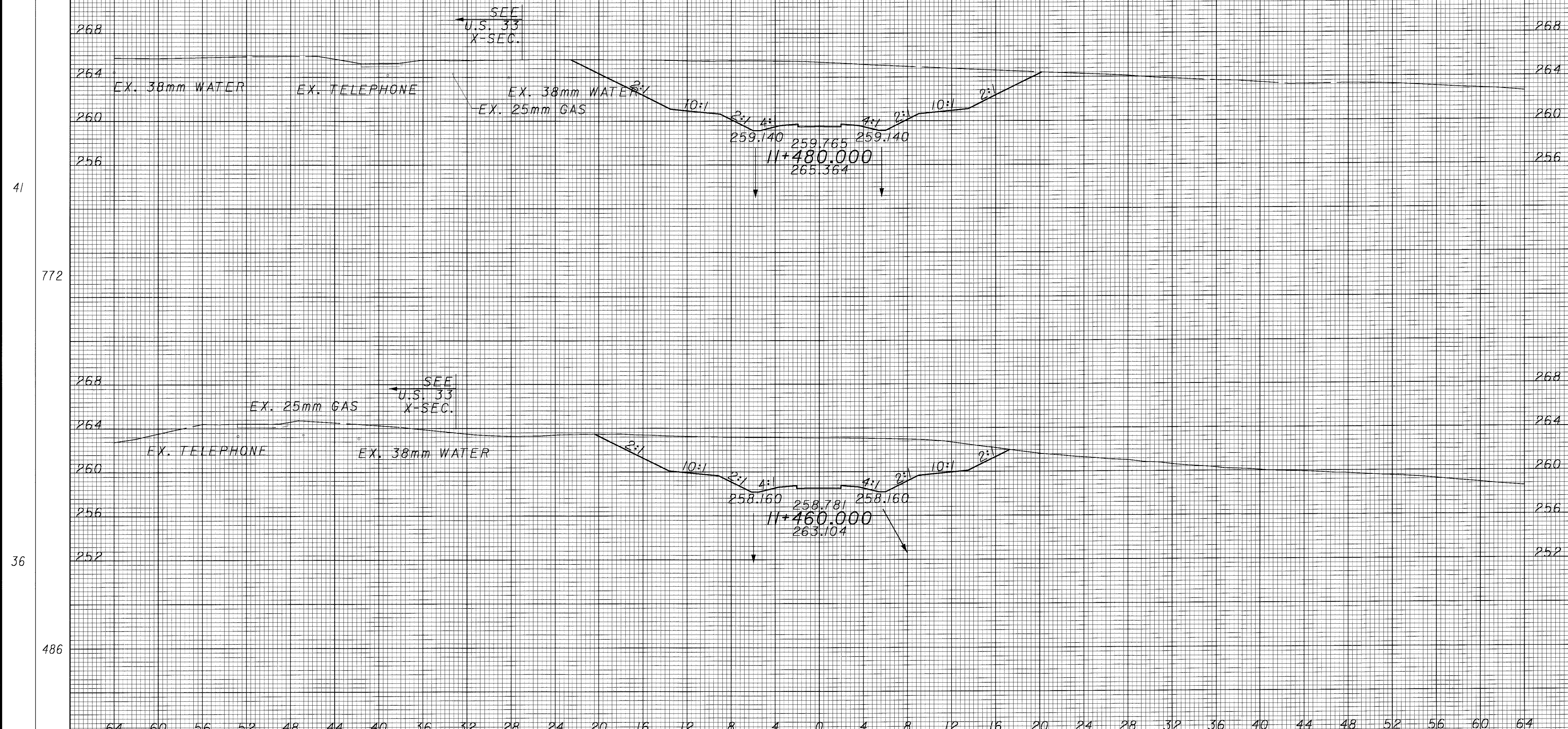
SEEDING  
END SO.  
WIDTH METERS

END AREA  
CUT FILL  
VOLUME  
CUT FILL

CALCULATED  
BBO  
CHECKED  
TDW

 - ROCK EXCAVATION

\* INDICATES ROCK EXCAVATION



173 0

2977 0

124 0

1401 0

TR 412 CROSS SECTIONS  
STA. 11+460 TO STA. 11+480

ATH-33-40.981

499  
949

64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64  
77 1258 SHEET TOTAL Q SHEET TOTAL 4378 0

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