
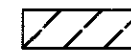

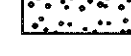


RONALD J. KENNEDY

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL
-  SEEDING AND MULCHING WITH CONTROL NETTING
-  ROCK CHANNEL PROTECTION

CURVE DATA RAMP D

P. I. STA 5+249.573  
 $\Delta = 5^{\circ}42'44''$  LT.  
 R = 2200.000m  
 T = 109.756m  
 L = 219.330m  
 E = 2.736m  
 $e_{max} = 0.020$

CURVE DATA RAMP D

P. I. STA 4+918.463  
 $\Delta = 33^{\circ}34'42''$  RT.  
 R = 600.000m  
 T = 181.026m  
 L = 351.630m  
 E = 26.714m  
 $e_{max} = 0.080$

CURVE DATA RAMP C

P. I. STA 3+967.691  
 $\Delta = 25^{\circ}16'31''$  RT.  
 R = 1350.000m  
 T = 302.692m  
 L = 595.534m  
 E = 33.518m  
 $e_{max} = 0.031$

CURVE DATA US 33 MAINLINE

P. I. STA 29+927.354  
 $\Delta = 27^{\circ}06'50''$  RT.  
 R = 600.000m  
 Ls = 110.000m  
 $\theta_s = 5^{\circ}15'08''$   
 LT = 73.366m  
 ST = 36.696m  
 L = 173.936m  
 Ts = 199.865m  
 ES = 6.358m  
 $e_{max} = 0.078$

FOR CULVERT DETAILS, SEE SHEET 840

FOR ESTIMATED QUANTITIES, SEE SHEETS 104 AND 105

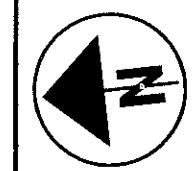
FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 222, 223, 224, 229, 230, 231

FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

FOR STORM SEWER DETAILS, SEE SHEETS 101 AND 230

FOR RAMP PROFILES, SEE SHEETS 179 TO 185

ASPHALT PAVEMENT TO BE REMOVED



SCALE IN METERS  
0 1500 20

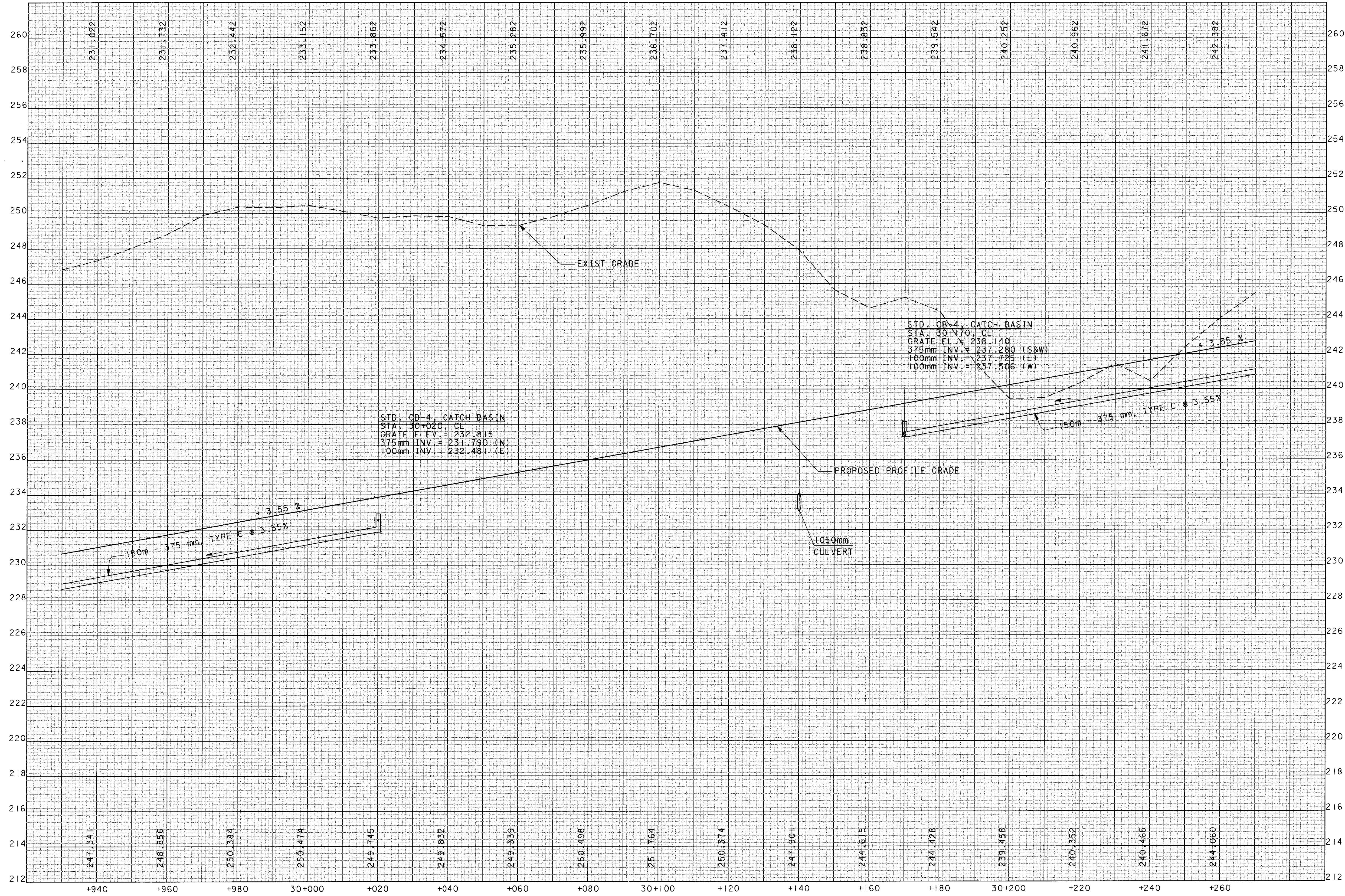
CALCULATED  
PRS  
CHECKED  
AM

US 33 MAINLINE PLAN  
STA 29+930 TO STA 30+270

ATH-33-30.981

100  
956

16 APR 2001  
16:24:27  
D:\PROJECTS\ATH-33-30.981\ATH-33-30.981.dgn



STD. CB-4, CATCH BASIN  
 STA. 30+020, CL  
 GRATE ELEV. = 232.815  
 375mm INV. = 231.790 (N)  
 100mm INV. = 232.481 (E)

STD. CB-4, CATCH BASIN  
 STA. 30+170, CL  
 GRATE EL. = 238.140  
 375mm INV. = 237.280 (S&W)  
 100mm INV. = 237.725 (E)  
 100mm INV. = 237.506 (W)

150m - 375 mm, TYPE C @ 3.55%

1050mm  
 CULVERT

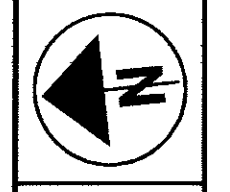
150m - 375 mm, TYPE C @ 3.55%

CALCULATED  
 PRS  
 CHECKED  
 AM

PROFILE - US 33  
 STA 29+930.00 TO STA 30+270.00

ATH-33-30.981

101  
 956



0 1500 20  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 30+270 TO STA 30+600**

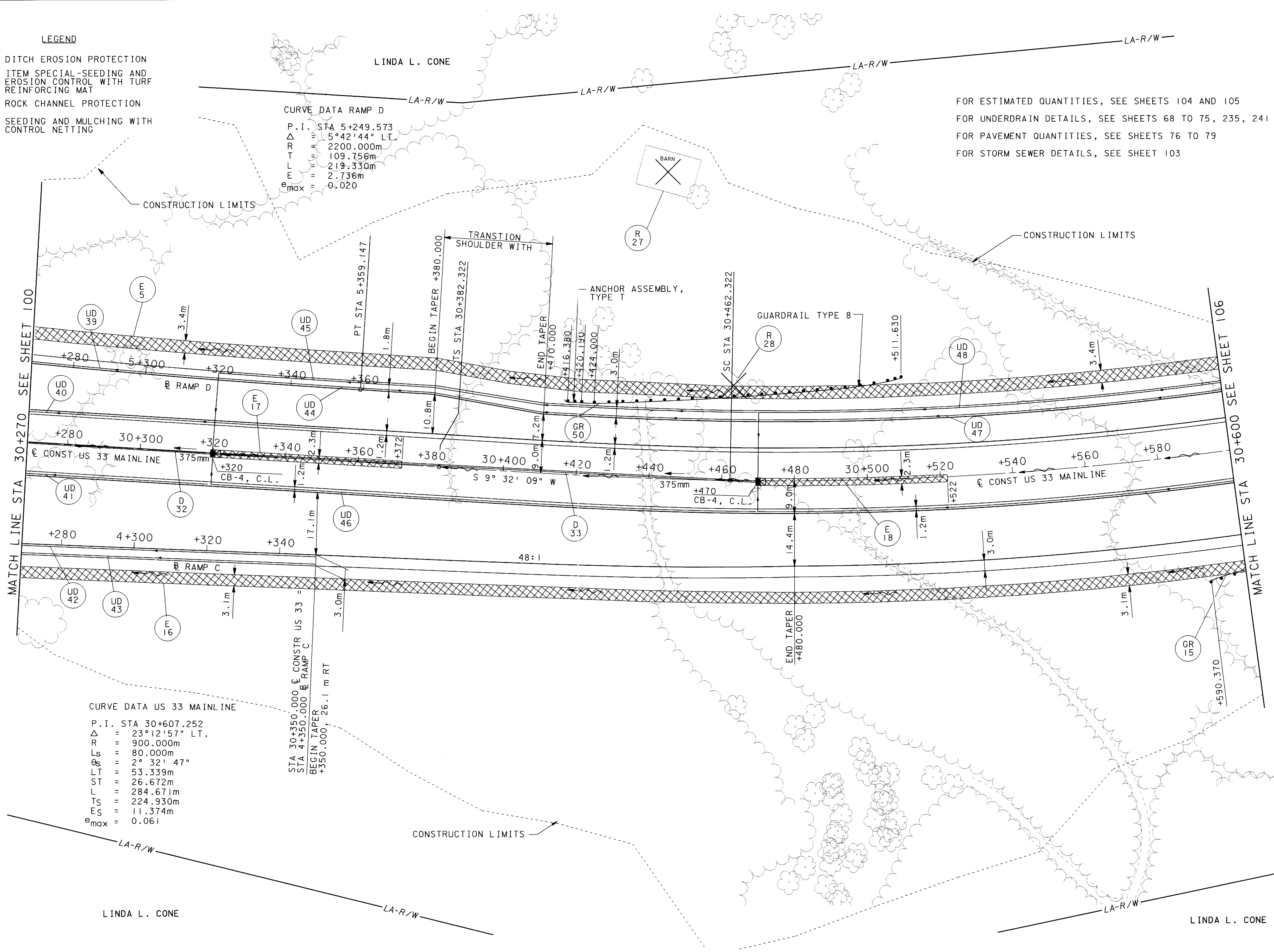
**ATH-33-30.981**

102  
956

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING

**CURVE DATA RAMP D**

P.I. STA 5+249.573  
 $\Delta = 5^{\circ}42'44''$  LT.  
 R = 2200.000m  
 T = 109.756m  
 L = 219.330m  
 E = 2.736m  
 $e_{max} = 0.020$



**CURVE DATA US 33 MAINLINE**

P.I. STA 30+607.252  
 $\Delta = 23^{\circ}12'57''$  LT.  
 R = 900.000m  
 Ls = 80.000m  
 $\theta_s = 2^{\circ}32'47''$   
 LT = 53.339m  
 ST = 26.672m  
 L = 284.671m  
 TS = 224.930m  
 ES = 11.374m  
 $e_{max} = 0.061$

STA 30+350.000 C CONSTR US 33  
 STA 4+350.000 B RAMP C  
 BEGIN TAPER  
 +350.000, 26.1 m RT

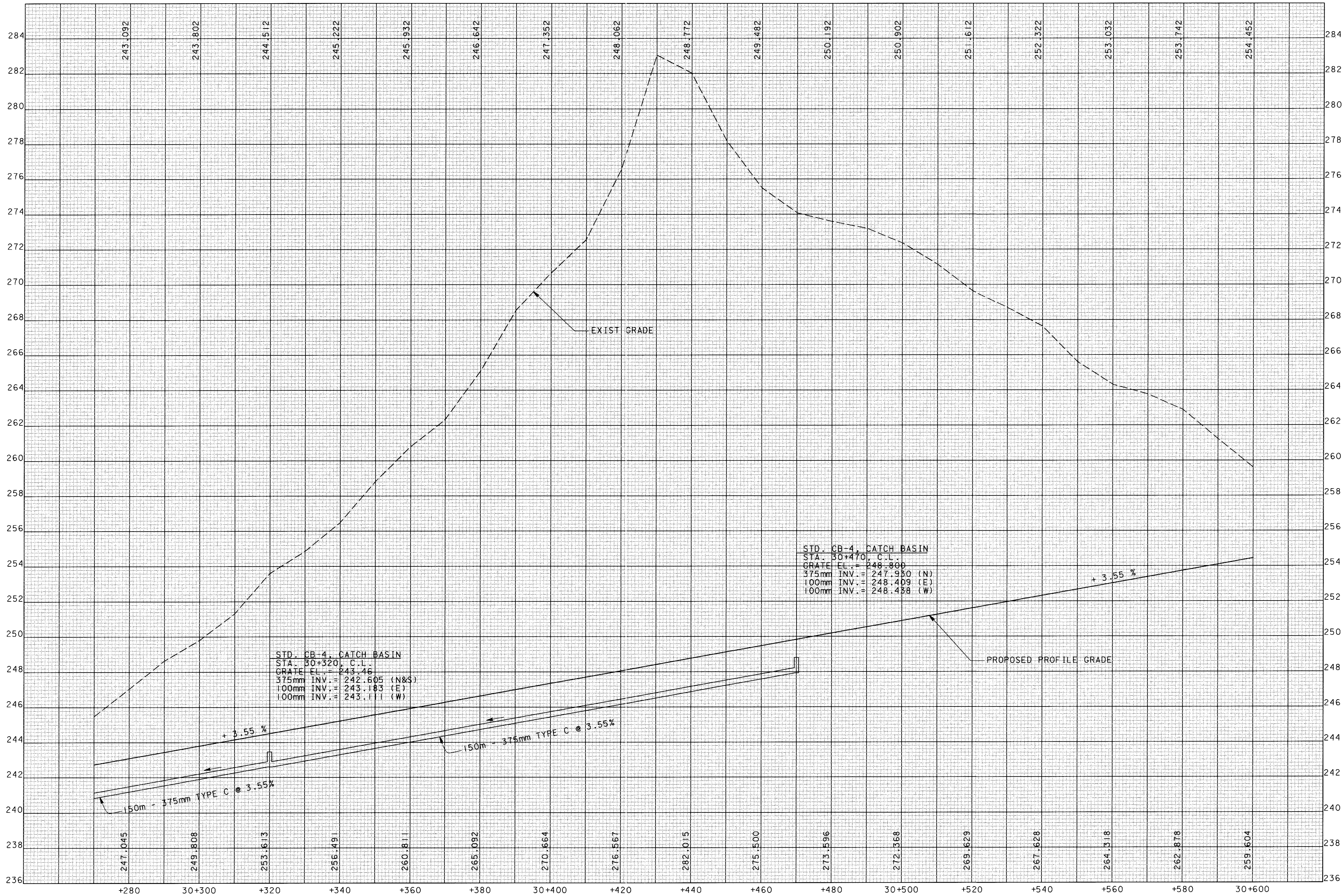
FOR ESTIMATED QUANTITIES, SEE SHEETS 104 AND 105  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 235, 241  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 103

06 FEB 2001 14:27:47  
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LINDA L. CONE

LA-R/W

LINDA L. CONE



REF NO.	SHEET NO.	STATION		SIDE	202	202	448	601	602	603	603	603	603	604	604	604	606	606	606	606	606	626
		FROM	TO		BUILDING DEMOLISHED	PIPE REMOVED 600mm AND UNDER	50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	CONCRETE MASONARY	300mm CONDUIT, TYPE C	375mm CONDUIT, TYPE B	375mm CONDUIT, TYPE C	450mm CONDUIT, TYPE B	CATCH BASIN, NO. 7, AS PER PLAN	CATCH BASIN, NO. 4	CATCH BASIN, NO. 5	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 8	IMPACT ATTENUATOR TYPE I-98 (UNIDIRECTIONAL)	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	BARRIER REFLECTOR, TYPE A
					EACH	METERS	CU. METER	CU. METER	CU. METER	METER	METER	METER	METER	EACH	EACH	EACH	METER	METER	EACH	EACH	EACH	EACH
D21	98	29+600.000	29+720.000	CL								120			I							
D22	98	29+640.000	29+640.000	RT									20			I						
D23	98	3+673.500 (RAMP C)	3+765.000 (RAMP C)	RT						94.6				I								
D24	98	29+600.000	4+697.000 (RAMP D)	LT						120				I								
D25	98	4+697.000 (RAMP D)	4+860.000 (RAMP D)	LT						161				I								
D26	98	29+720.000	29+870.000	CL/RT								150			I							
D27	98	3+765.000 (RAMP C)	3+913.000 (RAMP C)	RT						149				I								
D28	98,100	4+860.000 (RAMP D)	5+000.000 (RAMP D)	LT						138				I								
D29	98,100	29+870.000	30+020.000	CL/RT								150			I							
D30	98,100	3+913.000 (RAMP C)	4+041.000 (RAMP C)	RT						127.5				2								
D31	100	30+160.000	30+170.000	RT				2.40	0.22		50				I							
D32	100,102	30+170.000	30+320.000	CL							150				I							
D33	102	30+320.000	30+470.000	CL							150				I							
GR11	98	29+600.000	29+754.096	RT			11.6									150.286				I	7	
GR12	NOT USED																					
GR13	98	29+600.000	29+632.254	LT												22.297		I			2	
GR14	98,100	29+600.000	30+006.254	LT			30.5									391.014		I			14	
GR15	102	30+590.370	30+600.000	RT			0.9										9.63				1	
GR50	102	30+416.380	30+511.630	LT												7.62	87.63			I	4	
R10	98	29+620.000	29+640.000	RT		20																
R11	98	29+634.000		RT	I																	
R12	98	29+634.000		LT	I																	
R13	98	29+668.000		LT	I																	
R14	98	29+707.000		RT	I																	
R15	98	29+726.000		RT	I																	
R16	98	29+720.000	29+730.000	RT		13																
R17	98	29+734.000		RT	I																	
R18	98	29+780.000		RT	I																	
R19	98	29+800.000		RT	I																	
R20	98	29+850.000		LT	I																	
R21	98	29+869.000		LT	I																	
R22	100	29+970.000		LT	I																	
R23	100	29+992.000		LT	I																	
R24	100	29+990.000		RT	I																	
R25	100	30+011.000		RT	I																	
R26	100	30+022.000		LT	I																	
R27	102	30+440.000		LT	I																	
R28	102	30+462.000		LT	I																	
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					17	33	43.0	2.40	0.22	790.1	50.0	720.0	20.0	7	6	I	571.217	97.26	I	I	2	28

**ESTIMATED QUANTITIES  
 STA. 29+600 TO STA. 30+600**

**ATH-33-30.981**

CALCULATED  
 AML  
 CHECKED  
 AM

16 APR 2001 14:13:37  
 C:\MS98\WORKS\SP020313.DGN

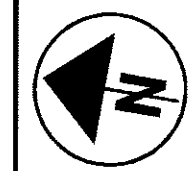
REF NO.	SHEET NO.	STATION		SIDE	670	672	SPECIAL	SPECIAL	606			202								
					DITCH EROSION PROTECTION	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3	POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	SEPTIC TANK REMOVED										
					SQ. METER	SQ. METER	SQ. METER	SQ. METER	EACH	EACH										
FROM TO		CL	LOD	LID	RID	ROD	CL	ROD	RT	CL	CL	RT	LT	RT	RT	RT	LT	LT	LT	
E4	98	29+600.000	29+622.000	CL	50.6															
E5	98,100,102	29+650.000	30+600.000	LOD		3230														
E6	98,100	29+650.000	30+160.000	LID		1173														
E7	98,100	29+650.000	30+120.000	RID		1081														
E8	98,100	29+650.000	30+120.000	ROD		1269														
E9	98	29+722.000	29+870.000	CL	340.4															
E10	98	29+872.000	29+922.000	CL	115.0															
E11	100	30+022.000	30+170.000	CL	340.4															
E12	100	30+120.000	30+160.000	RID	92.0															
E13	100	30+140.000	30+200.000	ROD				171.8												
E14	100	30+172.000	30+260.000	CL	202.4															
E15	100	30+200.000	30+260.000	ROD			193.5													
E16	100,102	30+260.000	30+600.000	RT		1054														
E17	102	30+322.000	30+372.000	CL		115														
E18	102	30+472.000	30+522.000	CL		115														
GR15	102	30+590.370	30+600.000	RT					1											
GR50	102	30+416.380	30+511.630	LT					1											
R84	98	29+625		RT								1								
R85	98	29+705		RT								1								
R86	98	29+730		RT								1								
R87	98	29+645		LT								1								
R88	98	29+850		LT								1								
R89	100	29+990		LT								1								
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					1140.8	8037.0	193.5	171.8	2			6								

CALCULATED  
 AML  
 CHECKED  
 AM

ESTIMATED QUANTITIES  
 STA. 29+600 TO STA. 30+600

ATH-33-30.981

105  
 956



0 1500 20  
HORIZONTAL  
SCALE IN METERS

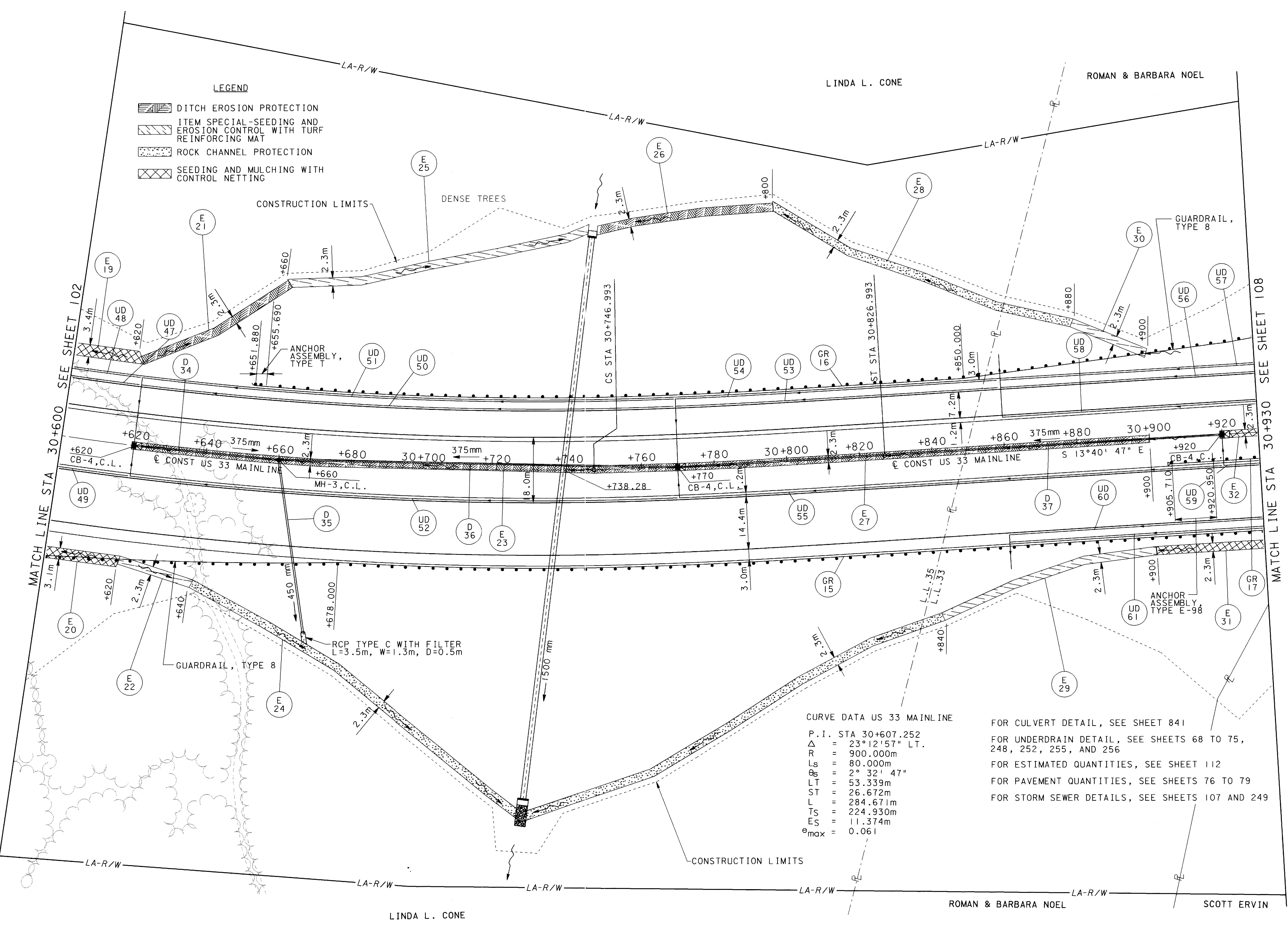
CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 30+600 TO STA 30+930**

**ATH-33-30.981**

106  
956

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING



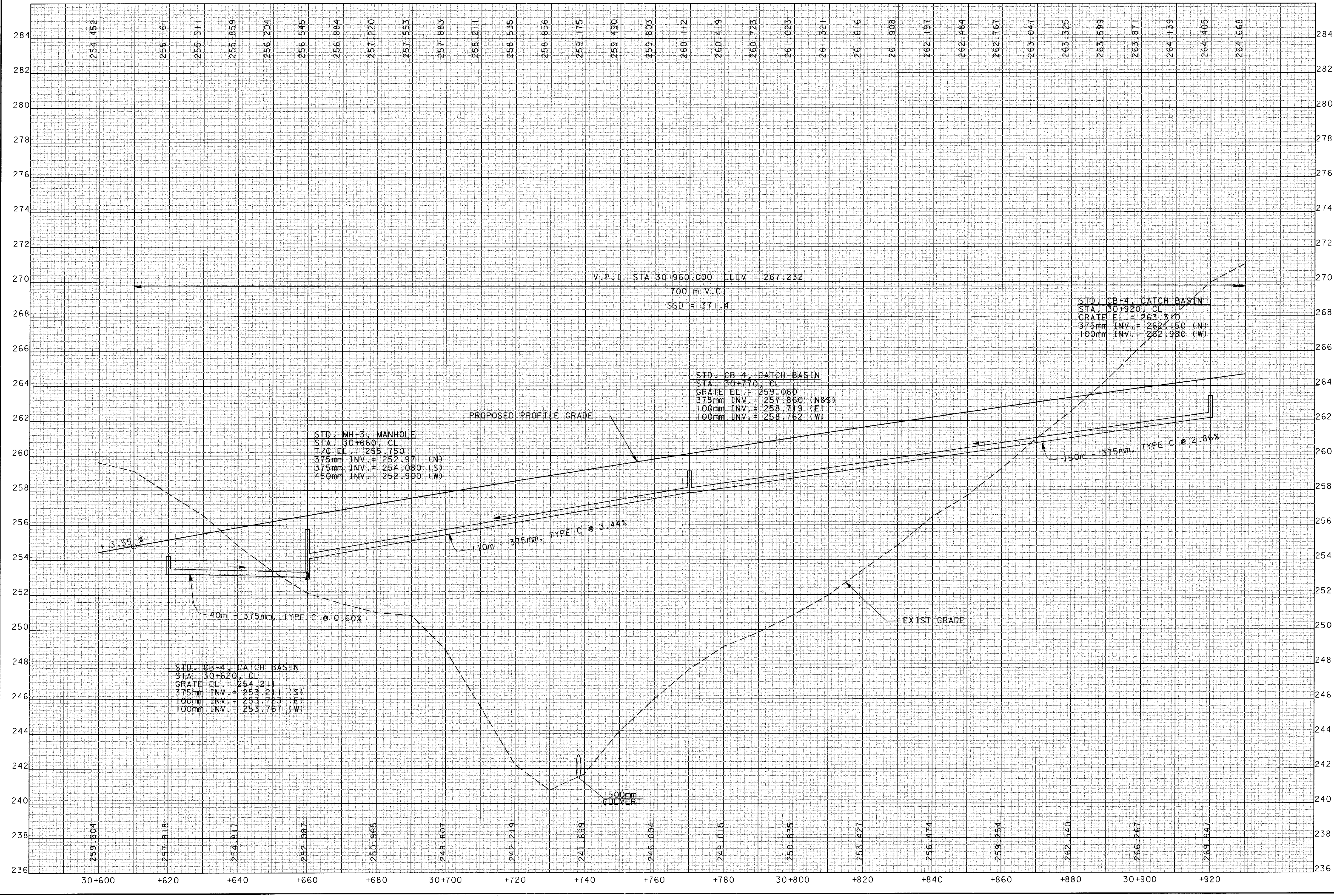
**CURVE DATA US 33 MAINLINE**

P.I. STA 30+607.252  
 $\Delta = 23^\circ 12' 57''$  LT.  
 $R = 900.000m$   
 $L_s = 80.000m$   
 $\theta_s = 2^\circ 32' 47''$   
 $LT = 53.339m$   
 $ST = 26.672m$   
 $L = 284.671m$   
 $TS = 224.930m$   
 $ES = 11.374m$   
 $e_{max} = 0.061$

FOR CULVERT DETAIL, SEE SHEET 841  
 FOR UNDERDRAIN DETAIL, SEE SHEETS 68 TO 75, 248, 252, 255, AND 256  
 FOR ESTIMATED QUANTITIES, SEE SHEET 112  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 107 AND 249

04 FEB 2001  
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LA-R/W  
 LINDA L. CONE  
 ROMAN & BARBARA NOEL  
 SCOTT ERVIN




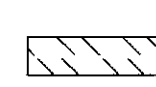

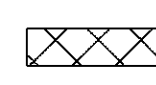
**ATH-33-30.981**  
**PROFILE - US 33**  
**STA 30+600.000 TO STA 30+930.000**

CALCULATED  
 PRS  
 CHECKED  
 AM



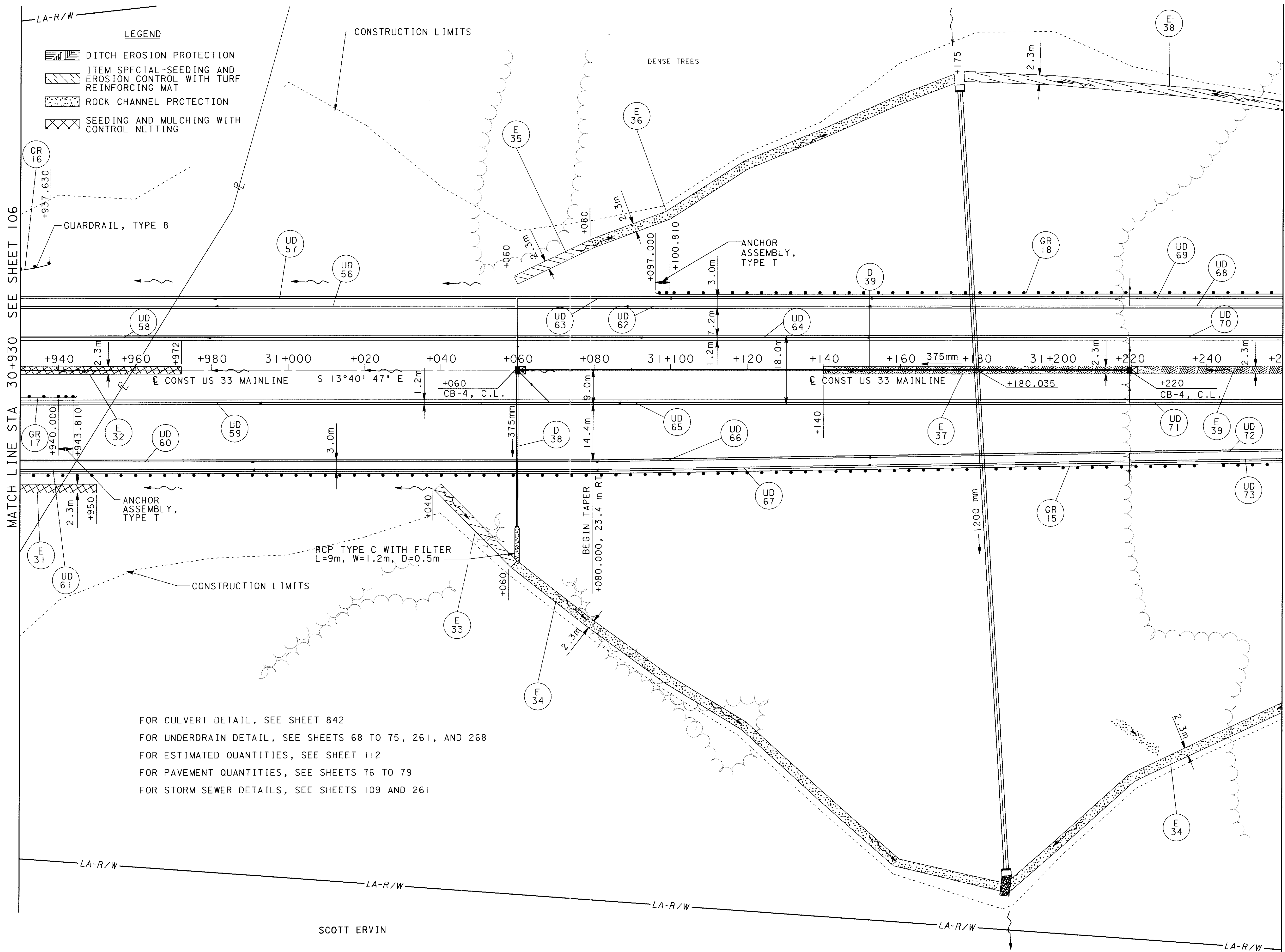
ROMAN & BARBARA NOEL

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

CONSTRUCTION LIMITS

DENSE TREES

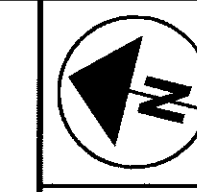


MATCH LINE STA 30+930 SEE SHEET 106

MATCH LINE STA 31+260 SEE SHEET 110

FOR CULVERT DETAIL, SEE SHEET 842  
 FOR UNDERDRAIN DETAIL, SEE SHEETS 68 TO 75, 261, AND 268  
 FOR ESTIMATED QUANTITIES, SEE SHEET 112  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 109 AND 261

SCOTT ERVIN



0 1500 30  
 HORIZONTAL  
 SCALE IN METERS

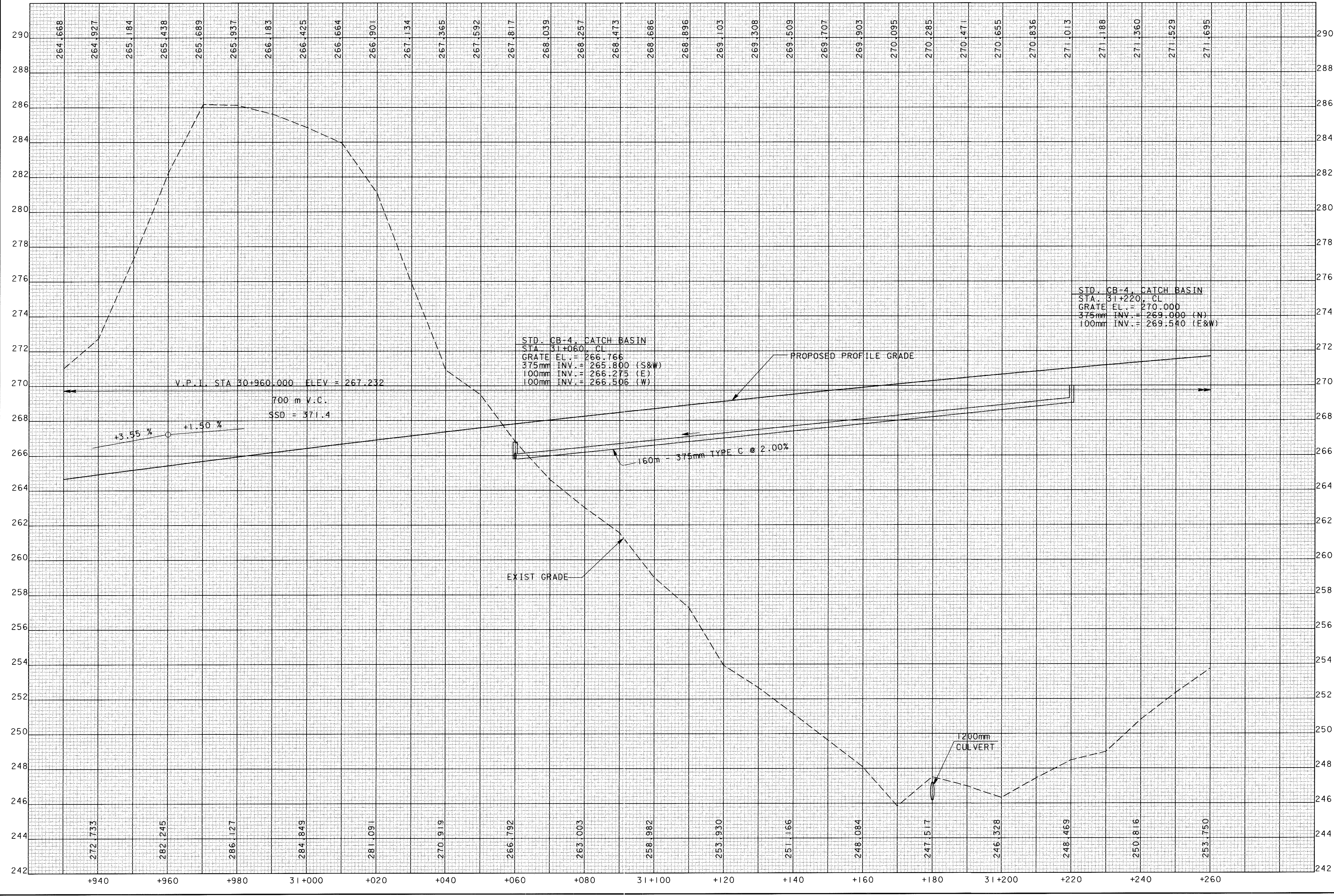
CALCULATED PRS  
 CHECKED AM

**US 33 MAINLINE PLAN**  
**STA 30+930 TO STA 31+260**

**ATH-33-30.981**

108  
 956

04 FEB 2001 16:16:04  
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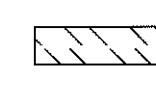

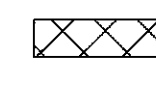


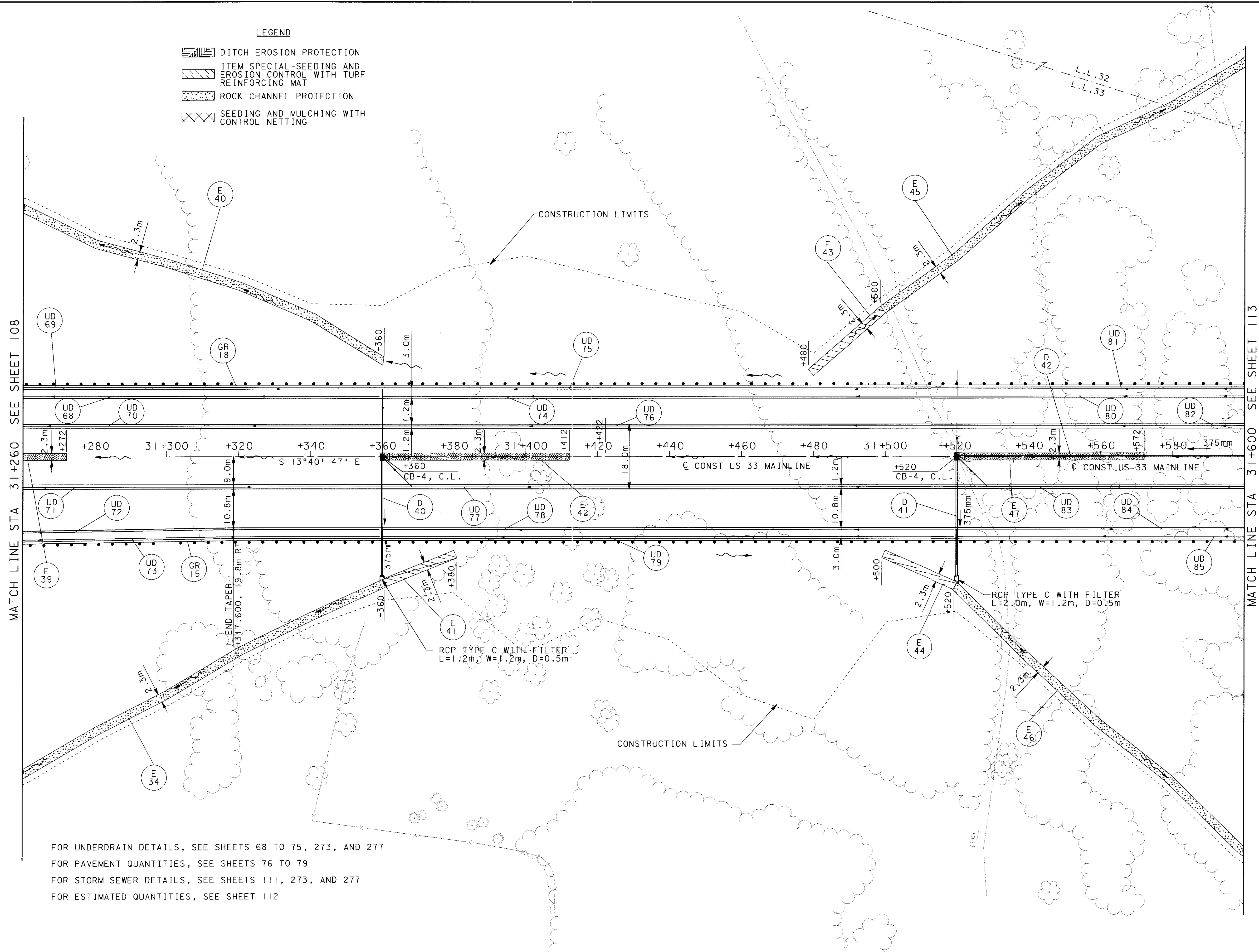
**PROFILE - US 33**  
**STA 30+930.000 TO STA 31+260.000**

**ATH-33-30.981**

CALCULATED  
 PRS  
 CHECKED  
 AM

LEGEND

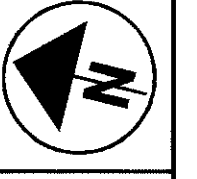
-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



MATCH LINE STA 31+260 SEE SHEET 108

MATCH LINE STA 31+600 SEE SHEET 113

FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 273, AND 277  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 111, 273, AND 277  
 FOR ESTIMATED QUANTITIES, SEE SHEET 112

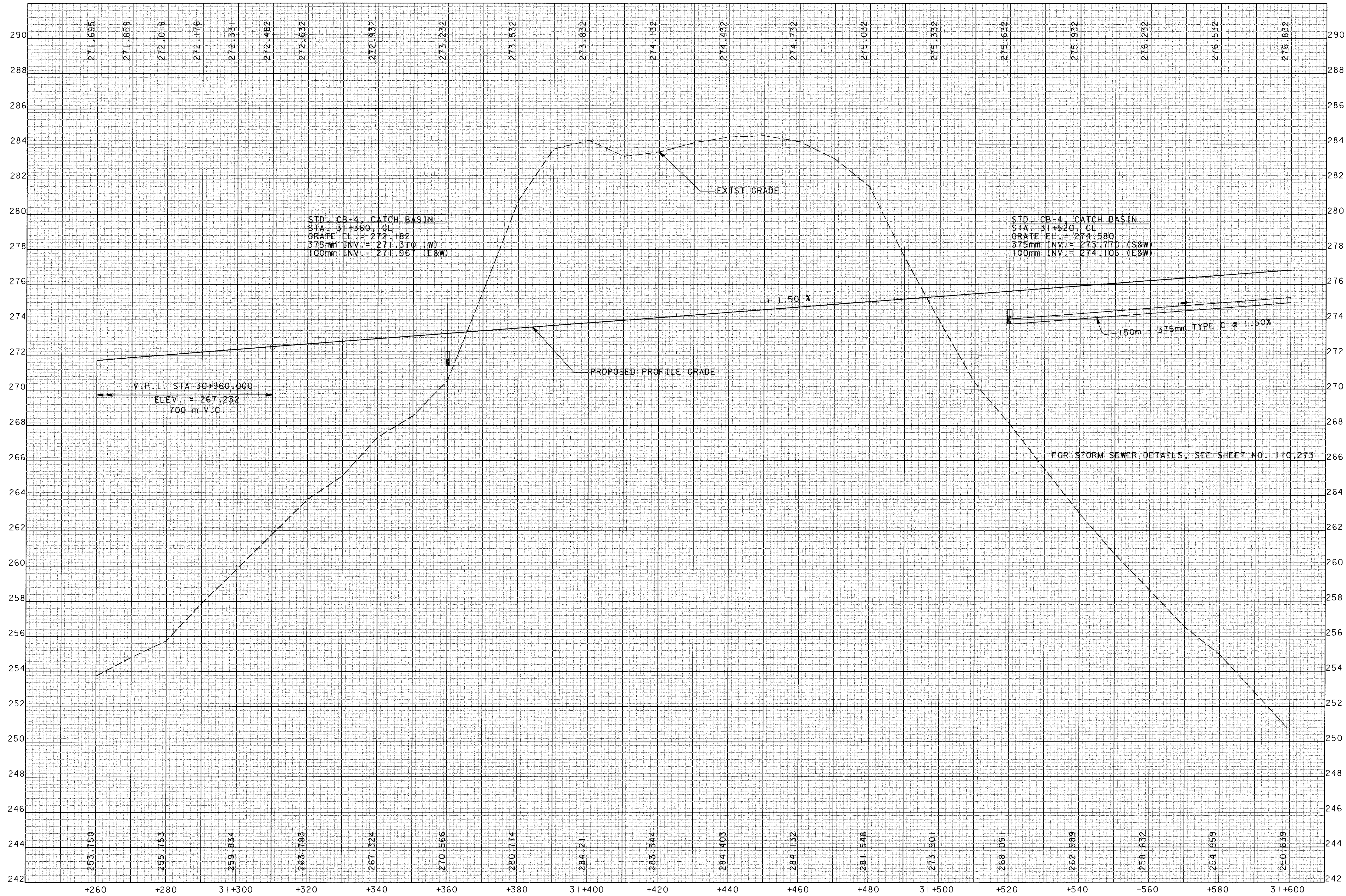


0 1500 20  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 PRS  
 CHECKED  
 AM

US 33 MAINLINE PLAN  
 STA 31+260 TO STA 31+600

ATH-33-30.981



CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33  
STA 31+260.000 TO STA 31+600.000**

**ATH-33-30.981**

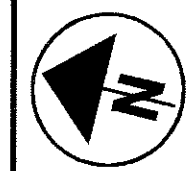
REF NO.	SHEET NO.	STATION		SIDE	448	601	602	603	603	603	604	604	606	606	606	606	606	626	670	672	SPECIAL	SPECIAL
					50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	CONCRETE MASONRY	375mm CONDUIT, TYPE B	375mm CONDUIT, TYPE C	450mm CONDUIT, TYPE B	CATCH BASIN, NO. 4	MANHOLE, NO. 3	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 8	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	BARRIER REFLECTORS, TYPE A	DITCH EROSION PROTECTION	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2
		FROM	TO		CU. METER	CU. METER	CU. METER	METER	METER	METER	EACH	EACH	METER	METER	EACH	EACH	EACH	EACH	SQ. METER	SQ. METER	SQ. METER	SQ. METER
D34	106	30+620.000	30+660.000	CL				40														
D35	106	30+660.000	30+670.000	RT		2.10	0.27		48													
D36	106	30+660.000	30+770.000	CL				110														
D37	106	30+770.000	30+920.000	CL				150														
D38	108	31+060.000		RT		5.4	0.22	41														
D39	108	31+060.000	31+220.000	CL				160														
D40	110	31+360.000		RT		0.72	0.22	33														
D41	110	31+520.000		RT		1.20	0.22	33														
D42	110	31+520.000	31+600.000	CL				80														
E19	106	30+600.000	30+620.000	LT															68.0			
E20	106	30+600.000	30+620.000	RT															62.0			
E21	106	30+620.000	30+660.000	LT													106.0					
E22	106	30+620.000	30+640.000	RT																		47.8
E23	106	30+622.000	30+770.000	CL													340.4					
E24	106	30+640.000	30+840.000	RT		272.60																
E25	106	30+660.000	30+747.000	LT																190.9		
E26	106	30+747.000	30+800.000	LT														113.2				
E27	106	30+772.000	30+900.000	CL													294.4					
E28	106	30+800.000	30+880.000	LT		101.2																
E29	106	30+840.000	30+900.000	RT																		143.1
E30	106	30+880.000	30+900.000	LT																		51.1
E31	106, 108	30+900.000	30+950.000	RT															115.0			
E32	106, 108	30+922.000	30+972.000	CL															115.0			
E33	108	31+040.000	31+060.000	RT																		65.3
E34	108, 110	31+060.000	31+360.000	RT		410.6																50.6
E35	108	31+060.000	31+080.000	LT																		51.1
E36	108	31+080.000	31+175.000	LT		120.8																
E37	108	31+140.000	31+220.000	CL														184.0				
E38	108	31+175.000	31+260.000	LT																		203.8
E39	108, 110	31+222.000	31+272.000	CL															115.0			
E40	110	31+260.000	31+360.000	LT		126.5																
E41	110	31+360.000	31+380.000	RT																		49.7
E42	110	31+362.000	31+412.000	CL															115.0			
E43	110	31+480.000	31+500.000	LT																		61.0
E44	110	31+500.000	31+520.000	RT																		50.4
E45	110	31+500.000	31+600.000	LT		140.3																
E46	110	31+520.000	31+600.000	RT		126.4																
E47	110	31+522.000	31+572.000	CL															115.0			
GR15	106, 108, 110	30+600.000	31+600.000	RT	69.2							922.00	78.00				31					
GR16	106, 108	30+651.880	30+937.630	LT	14.9							194.31	87.63				11					
GR17	106, 108	30+905.710	30+943.810	RT	2.9							22.86					3					
GR18	108, 110	31+097.000	31+600.000	LT	37.8							499.19					18					
GR19	NOT USED																					
GR20	NOT USED																					
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					124.8	1307.82	0.93	107	540	48	7	1	1638.36	165.63	1	3	1	63	1383	360	190.9	773.9

**ESTIMATED QUANTITIES  
STA. 30+600 TO STA. 31+600**

**ATH-33-30.981**

CALCULATED  
AML  
CHECKED  
AM

18. APR 2001 08:46:40  
G:\8287\000a\vgd03as33.dgn



0 1500 20  
HORIZONTAL  
SCALE IN METERS

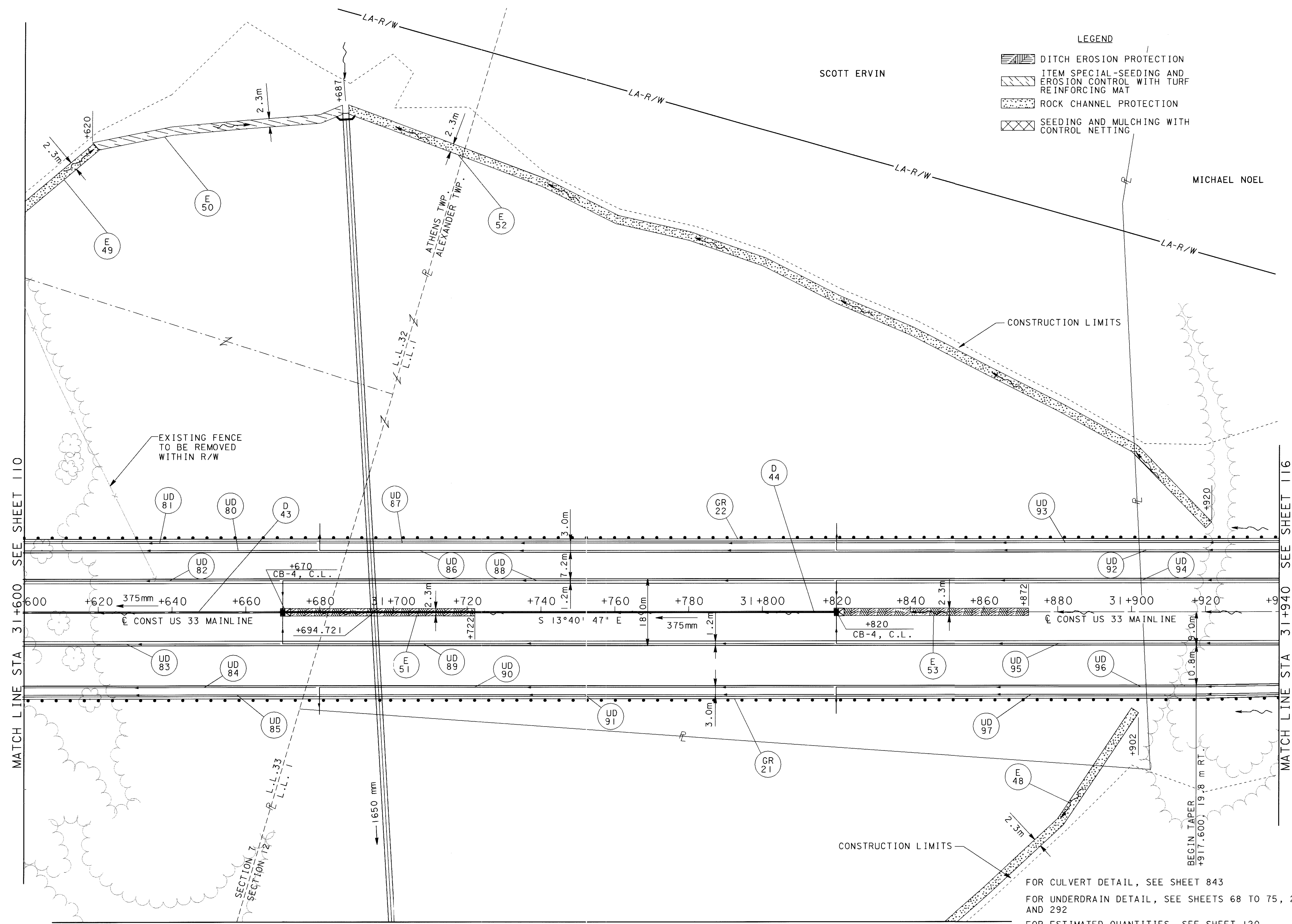
CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 31+600 TO STA 31+940**

**ATH-33-30.981**

113  
956

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING



SCOTT ERVIN

MICHAEL NOEL

MATCH LINE STA 31+600 SEE SHEET 110

MATCH LINE STA 31+940 SEE SHEET 116

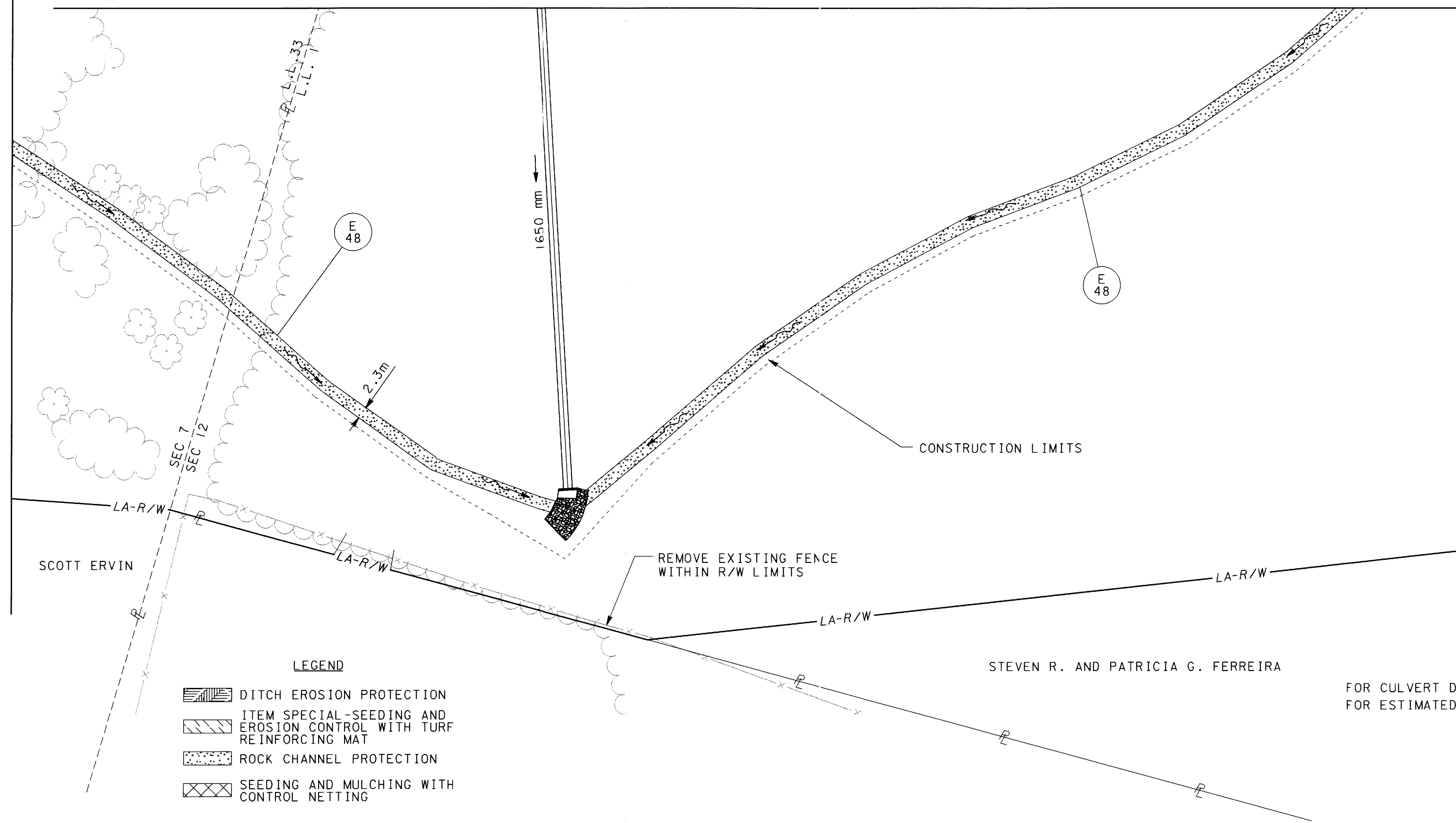
MATCH LINE SEE SHEET 114

FOR CULVERT DETAIL, SEE SHEET 843  
 FOR UNDERDRAIN DETAIL, SEE SHEETS 68 TO 75, 284, 285, AND 292  
 FOR ESTIMATED QUANTITIES, SEE SHEET 120  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 115





04 FEB 2001  
16:47:33  
C:\MSDCS\PROJECTS\10337.DWG

MATCH LINE STA 31+600 SEE SHEET 110

MATCHLINE SEE SHEET 113



LEGEND

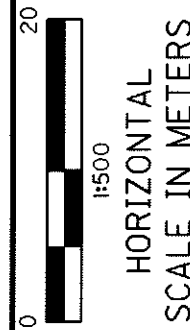
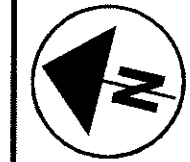
-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

CONSTRUCTION LIMITS

REMOVE EXISTING FENCE WITHIN R/W LIMITS

STEVEN R. AND PATRICIA G. FERREIRA

FOR CULVERT DETAIL, SEE SHEET 843  
FOR ESTIMATED QUANTITIES, SEE SHEET 120

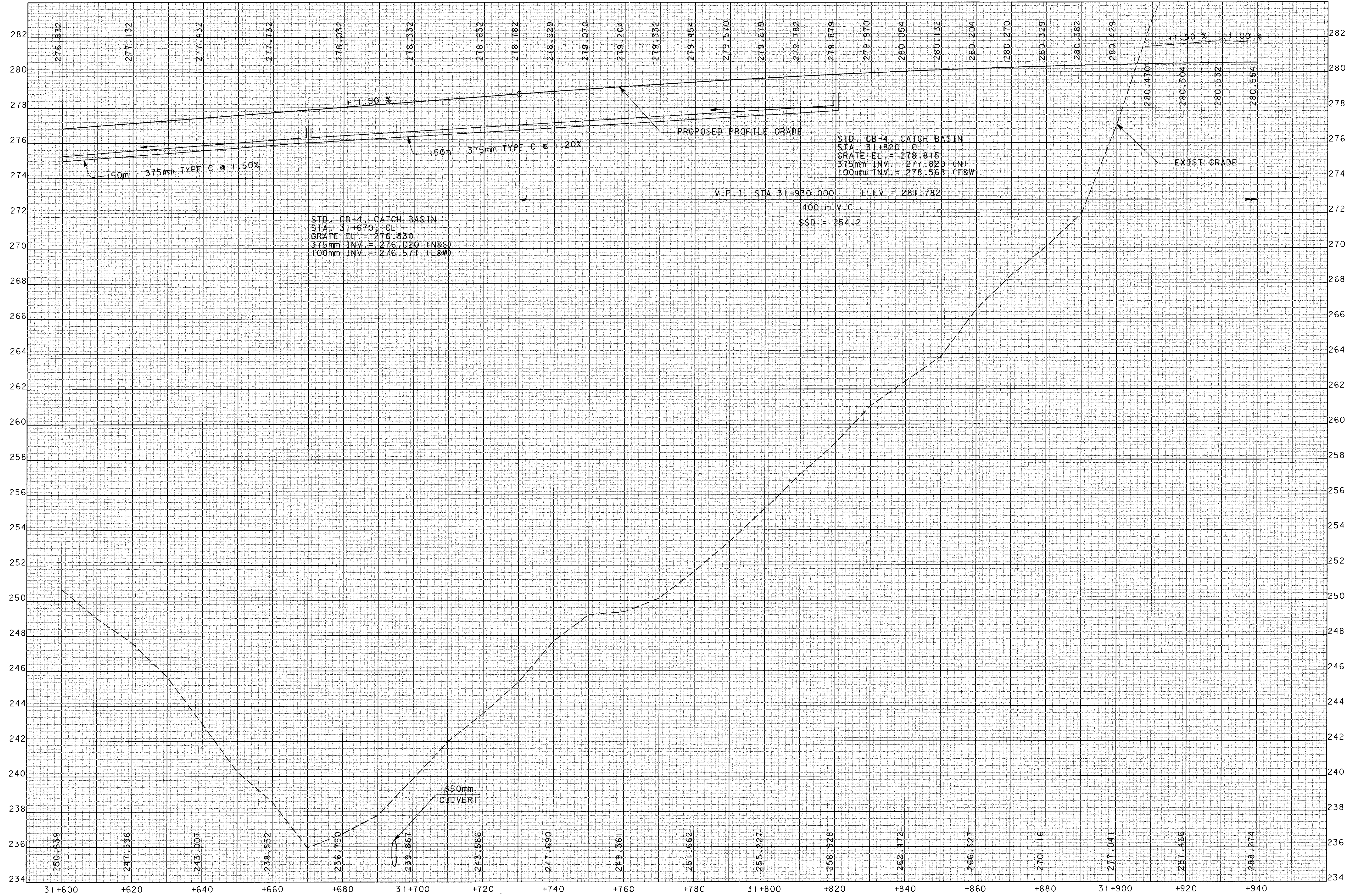


CALCULATED	PR
CHECKED	AM


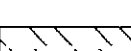
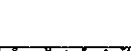
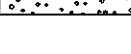
US 33 MAINLINE PLAN  
STA 31+600 TO STA 31+940

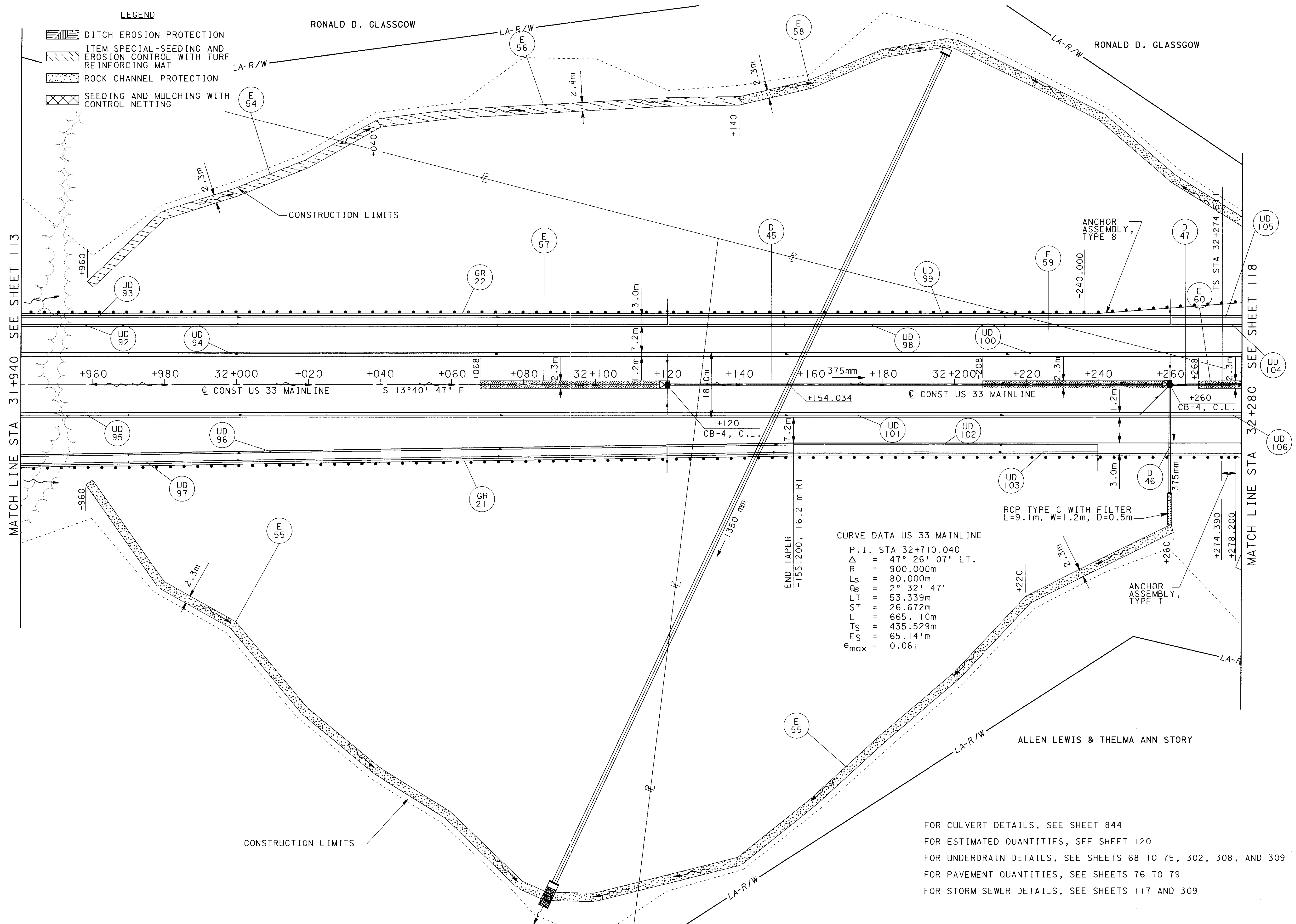
ATH-33-30.981

114  
956





- LEGEND**
-  DITCH EROSION PROTECTION
  -  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  -  ROCK CHANNEL PROTECTION
  -  SEEDING AND MULCHING WITH CONTROL NETTING



**CURVE DATA US 33 MAINLINE**

P.I. STA 32+710.040

$\Delta$	= 47° 26' 07" LT.
R	= 900.000m
Ls	= 80.000m
$\theta_s$	= 2° 32' 47"
LT	= 53.339m
ST	= 26.672m
L	= 665.110m
Ts	= 435.529m
ES	= 65.141m
$e_{max}$	= 0.061

FOR CULVERT DETAILS, SEE SHEET 844  
 FOR ESTIMATED QUANTITIES, SEE SHEET 120  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 302, 308, AND 309  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 117 AND 309

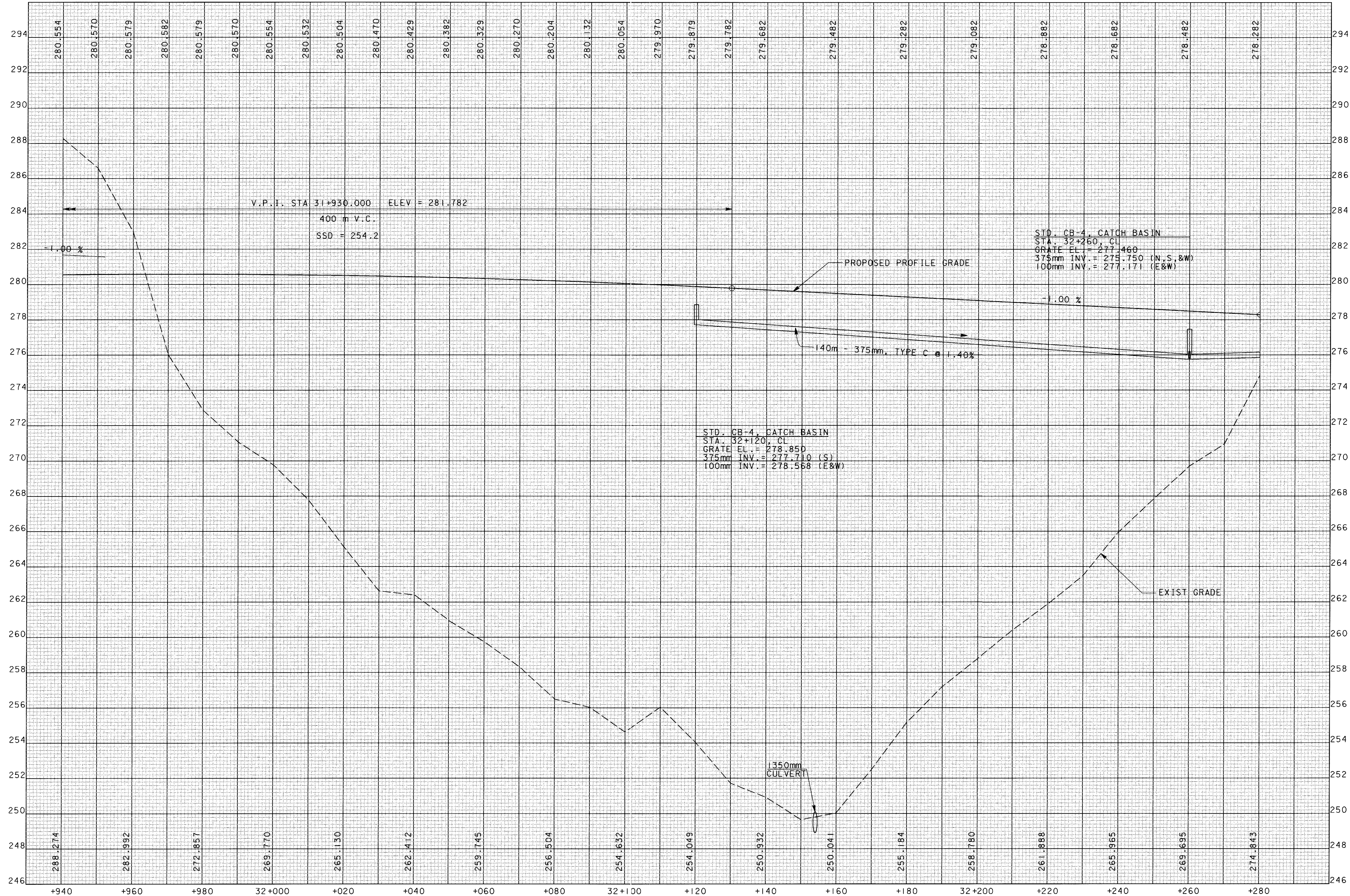
CALCULATED PRS CHECKED AM

0 1500 20  
 HORIZONTAL SCALE IN METERS

**US 33 MAINLINE PLAN  
 STA 31+940 TO STA 32+280**

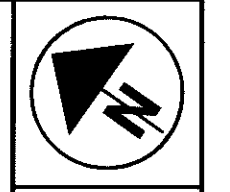
**ATH-33-30.981**

04 FEB 2001 16:48:48  
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CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33**  
**STA 31+940.000 TO STA 32+280.000**



0 1500 3000  
HORIZONTAL SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 32+280 TO STA 32+600**

**ATH-33-30.981**

**CURVE DATA TR 55**

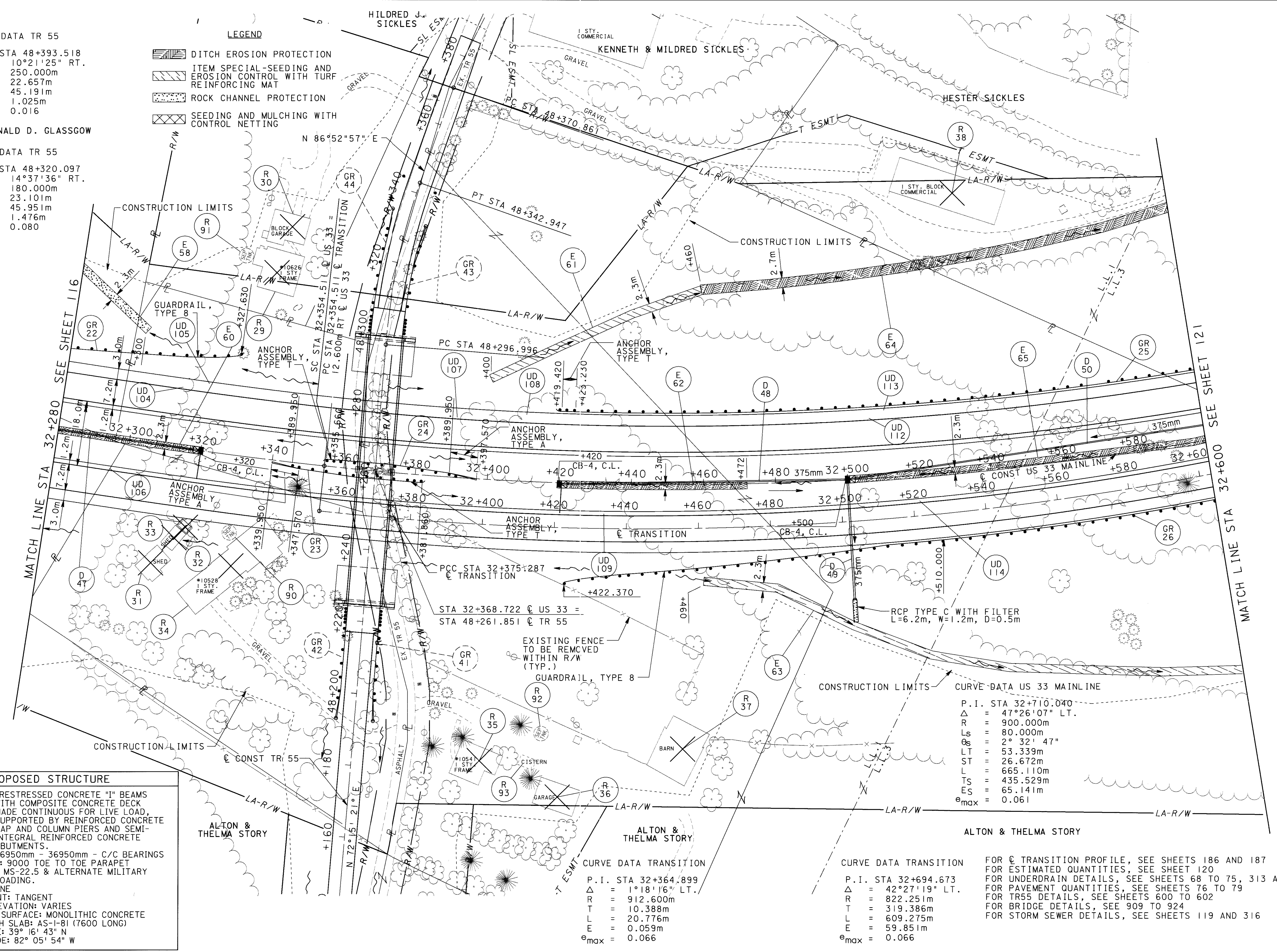
P.I. STA 48+393.518  
 $\Delta = 10^{\circ}21'25''$  RT.  
 R = 250.000m  
 T = 22.657m  
 L = 45.191m  
 E = 1.025m  
 $e_{max} = 0.016$

RONALD D. GLASSGOW

**CURVE DATA TR 55**

P.I. STA 48+320.097  
 $\Delta = 14^{\circ}37'36''$  RT.  
 R = 180.000m  
 T = 23.101m  
 L = 45.951m  
 E = 1.476m  
 $e_{max} = 0.080$

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING



**CURVE DATA US 33 MAINLINE**

P.I. STA 32+710.040  
 $\Delta = 47^{\circ}26'07''$  LT.  
 R = 900.000m  
 Ls = 80.000m  
 $\theta_s = 2^{\circ}32'47''$   
 LT = 53.339m  
 ST = 26.672m  
 L = 665.110m  
 TS = 435.529m  
 ES = 65.141m  
 $e_{max} = 0.061$

**CURVE DATA TRANSITION**

P.I. STA 32+364.899  
 $\Delta = 1^{\circ}18'16''$  LT.  
 R = 912.600m  
 T = 10.388m  
 L = 20.776m  
 E = 0.059m  
 $e_{max} = 0.066$

**CURVE DATA TRANSITION**

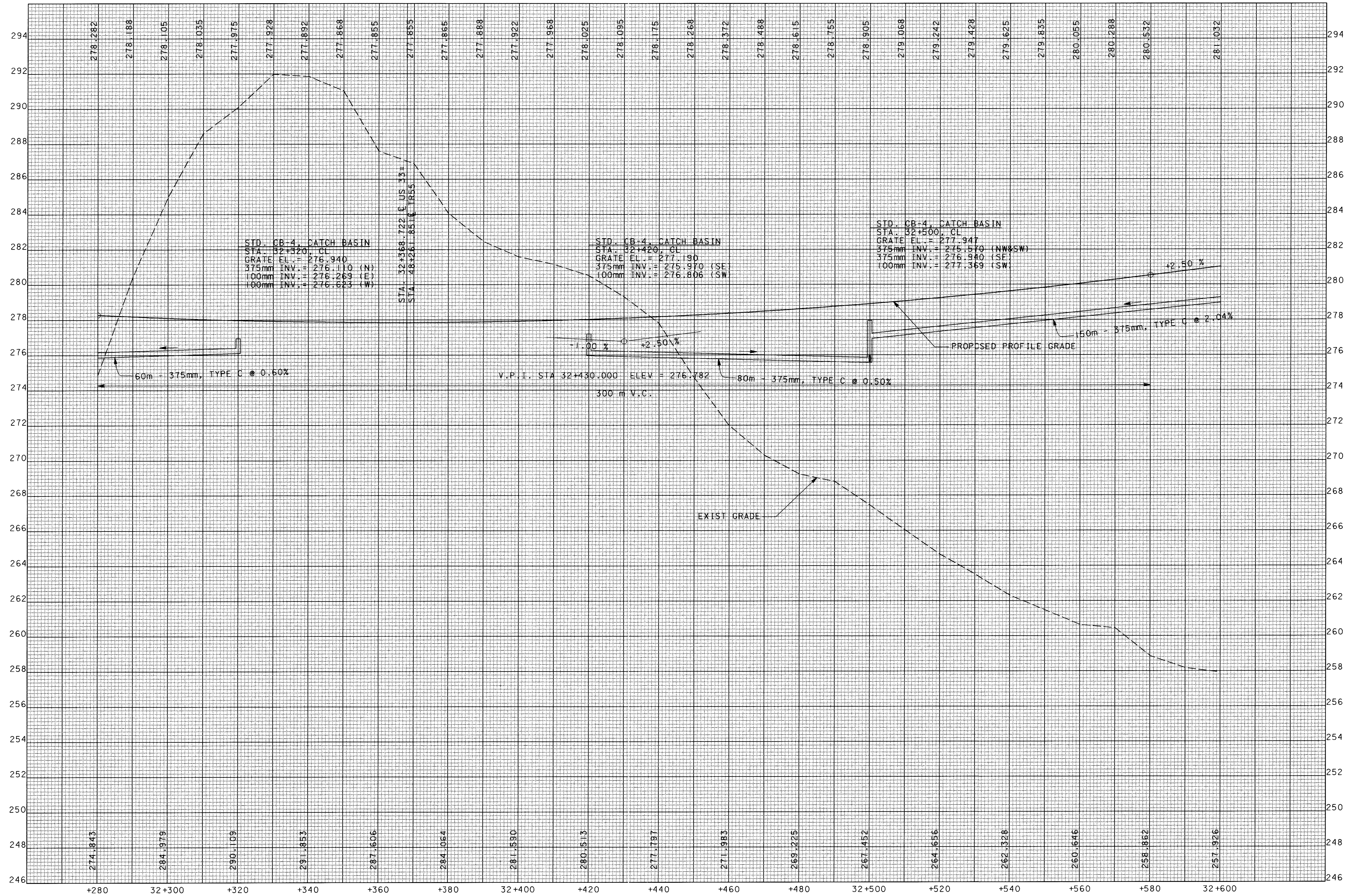
P.I. STA 32+694.673  
 $\Delta = 42^{\circ}27'19''$  LT.  
 R = 822.251m  
 T = 319.386m  
 L = 609.275m  
 E = 59.851m  
 $e_{max} = 0.066$

FOR  $\phi$  TRANSITION PROFILE, SEE SHEETS 186 AND 187  
 FOR ESTIMATED QUANTITIES, SEE SHEET 120  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 313 AND 316  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR TR55 DETAILS, SEE SHEETS 600 TO 602  
 FOR BRIDGE DETAILS, SEE SHEETS 909 TO 924  
 FOR STORM SEWER DETAILS, SEE SHEETS 119 AND 316

**PROPOSED STRUCTURE**

TYPE: PRESTRESSED CONCRETE "I" BEAMS WITH COMPOSITE CONCRETE DECK MADE CONTINUOUS FOR LIVE LOAD, SUPPORTED BY REINFORCED CONCRETE CAP AND COLUMN PIERS AND SEMI-INTEGRAL REINFORCED CONCRETE ABUTMENTS.  
 SPANS: 36950mm - 36950mm - C/C BEARINGS  
 ROADWAY: 9000 TOE TO TOE PARAPET  
 LOADING: MS-22.5 & ALTERNATE MILITARY LOADING.  
 SKEW: NONE  
 ALIGNMENT: TANGENT  
 SUPERELEVATION: VARIES  
 WEARING SURFACE: MONOLITHIC CONCRETE  
 APPROACH SLAB: AS-1-81 (7600 LONG)  
 LATITUDE:  $39^{\circ}16'43''$  N  
 LONGITUDE:  $82^{\circ}05'54''$  W

16 APR 2001 15:08:39  
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**PROFILE - US 33  
 STA 32+280.00 TO STA 32+600.00**

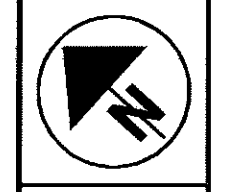
REF NO.	SHEET NO.	STATION		SIDE	202	202	202	448	601	602	603	603	604	606	606	606	606	626	626	670	SPECIAL	SPECIAL		
					BUILDING DEMOLISHED	SEPTIC TANK REMOVED	PRIVY VAULT REMOVED	50mm ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1, PG 64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION TYPE C WITH FILTER (DEPTH=0.5 M)	CONCRETE MASONRY	375mm CONDUIT, TYPE B	375mm CONDUIT, TYPE C	CATCH BASIN, NO. 4	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 8	ANCHOR ASSEMBLY, TYPE T	ANCHOR ASSEMBLY, TYPE A	BARRIER REFLECTORS, TYPE A	POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	DITCH EROSION PROTECTION	MISC.: SEEDING AND EROSION CONTROL WITH TURE REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURE REINFORCING MAT, TYPE 2		
					EACH	EACH	EACH	CU. METER	CU. METER	CU. METER	METER	METER	EACH	METER	METER	EACH	EACH	EACH	EACH	SO. METER	SO. METER	SO. METER		
D43	113	31+600.000	31+670.000	CL								70	I											
D44	113	31+670.000	31+820.000	CL								150	I											
D45	116	32+120.000	32+260.000	CL								140	I											
D46	116	32+260.000		RT				5.46	0.22	30		I												
D47	116,118	32+260.000	32+320.000	CL								60	I											
D48	118	32+420.000	32+500.000	CL								80	I											
D49	118	32+500.000		RT				3.7	0.22	34		I												
D50	118	32+500.000	32+600.000	LT							100													
E48	113,114	31+600.000	31+902.000	RT				433.0																
E49	113	31+600.000	31+620.000	LT				30.0																
E50	113	31+620.000	31+687.000	LT																155.7				
E51	113	31+672.000	31+722.000	CL															120.0					
E52	113	31+687.000	31+920.000	LT				301.0																
E53	113	31+822.000	31+872.000	CL															120.0					
E54	116	31+960.000	32+040.000	LT																		213.9		
E55	116	31+960.000	32+260.000	RT				438.3																
E56	116	32+040.000	32+140.000	LT																240.5				
E57	116	32+068.000	32+118.000	CL															115.0					
E58	116,118	32+140.000	32+300.000	LT				208.5																
E59	116	32+208.000	32+258.000	CL															115.0					
E60	116,118	32+268.000	32+318.000	CL															115.0					
E61	118	32+400.000	32+460.000	LT																144.7				
E62	118	32+422.000	32+472.000	CL															115.0					
E63	118	32+460.000	32+600.000	RT																353.5				
E64	118	32+460.000	32+600.000	LT															355.3					
E65	118	32+502.000	32+600.000	CL															225.4					
GR21	113,116	31+600.000	32+278.200	RT			50.9						674.39	I			23							
GR22	113,116,118	31+600.000	32+327.630	LT			48.0						640.00	87.63			25	I						
GR23	118	32+339.950	32+381.860	RT									30.48	I	I		3							
GR24	118	32+355.660	32+397.570	LT									30.48	I	I		3							
GR25	118	32+419.420	32+600.000	LT			13.5						176.77	I			7							
GR26	118	32+422.370	32+600.000	RT			6.8						90.00	87.63			7	I						
R29	118	32+335.000		LT	I																			
R30	118	32+335.000		LT	I																			
R31	118	32+305.000		RT	I																			
R32	118	32+315.000		RT	I																			
R33	118	32+320.000		RT	I																			
R92	118	32+415		RT		I																		
R34	118	32+330.000		RT	I																			
R35	118	32+390.000		RT	I																			
R36	118	32+420.000		RT	I																			
R37	118	32+460.000		RT	I																			
R38	118	32+520.000		LT	I																			
R90	118	32+330		RT		I																		
R91	118	32+330		LT		I																		
R93	118	32+410		RT		I																		
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					10	3	I	119.2	1419.96	0.44	64	600	7	1642.12	175.26	4	2	68	2	1280.7	894.4	213.9		

**ESTIMATED QUANTITIES  
 STA. 31+600 TO STA. 32+600**

**ATH-33-30.981**

CALCULATED  
 AML  
 CHECKED  
 AM

120  
 956



20  
1500  
HORIZONTAL  
SCALE IN METERS


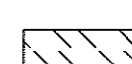
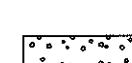
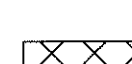
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PRS  
CHECKED  
AM

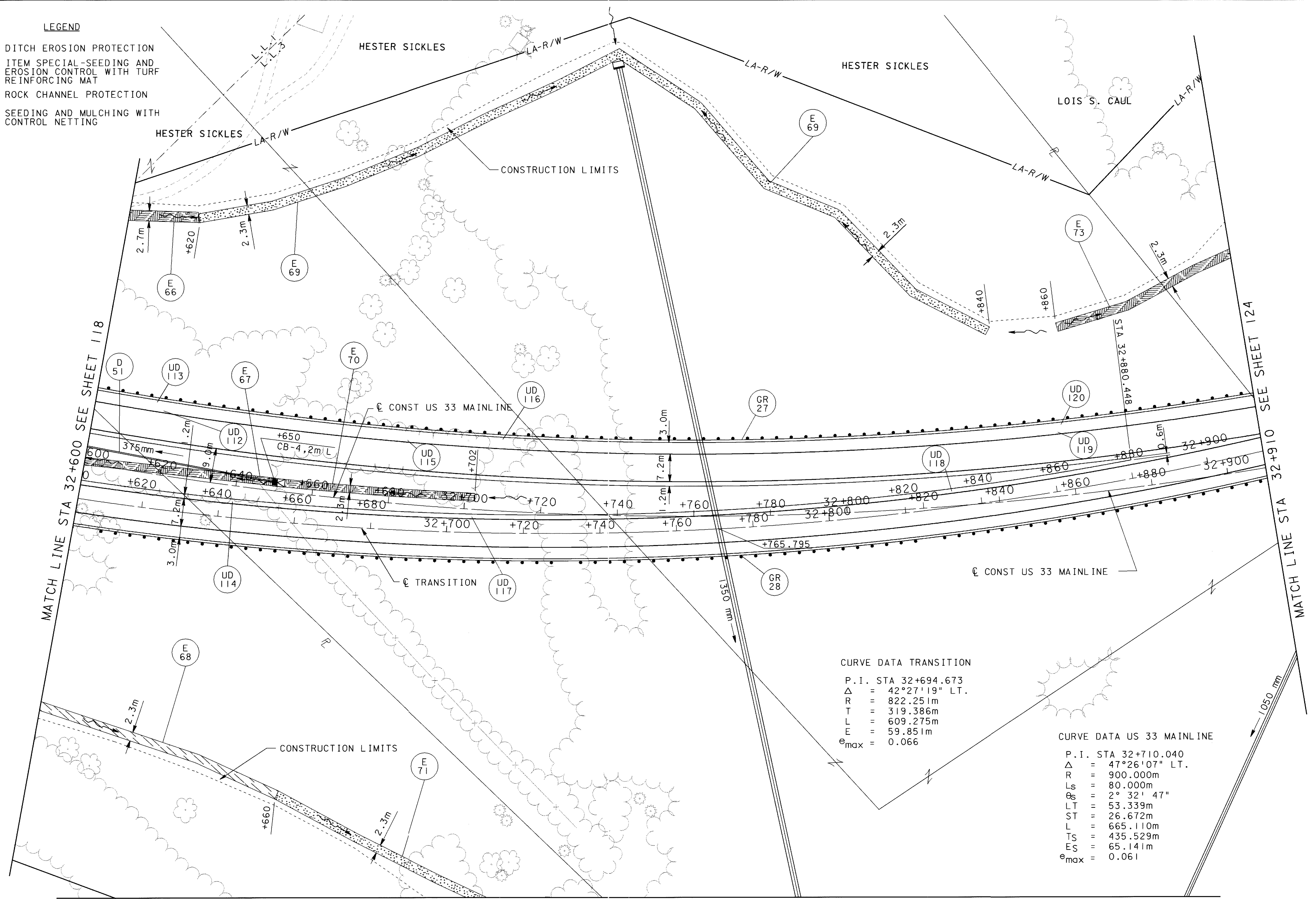
**US 33 MAINLINE PLAN  
STA 32+600 TO STA 32+910**

**ATH-33-30.981**

121  
956

**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



**CURVE DATA TRANSITION**

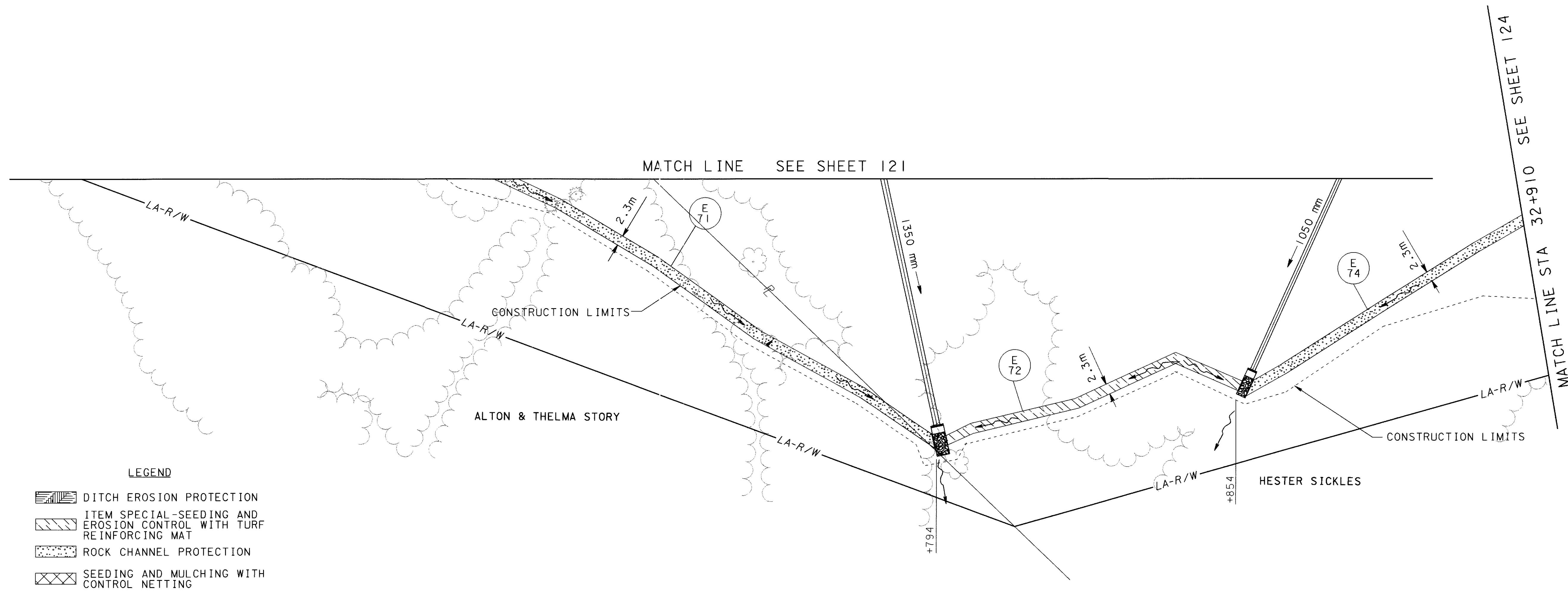
P.I. STA 32+694.673  
 $\Delta = 42^{\circ}27'19''$  LT.  
 R = 822.251m  
 T = 319.386m  
 L = 609.275m  
 E = 59.851m  
 $e_{max} = 0.066$


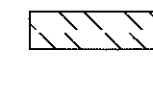
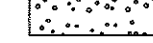

**CURVE DATA US 33 MAINLINE**

P.I. STA 32+710.040  
 $\Delta = 47^{\circ}26'07''$  LT.  
 R = 900.000m  
 Ls = 80.000m  
 $\theta_s = 2^{\circ}32'47''$   
 LT = 53.339m  
 ST = 26.672m  
 L = 665.110m  
 TS = 435.529m  
 ES = 65.141m  
 $e_{max} = 0.061$

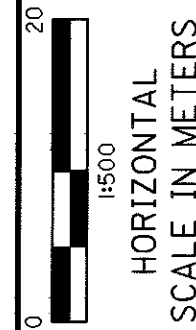
MATCH LINE SEE SHEET 122

FOR CULVERT DETAILS, SEE SHEETS 845 AND 846  
 FOR  $\epsilon$  TRANSITION PROFILE, SEE SHEETS 186 AND 187  
 FOR ESTIMATED QUANTITIES, SEE SHEET 128  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 320 AND 328  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 123 AND 320



- LEGEND**
-  DITCH EROSION PROTECTION
  -  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  -  ROCK CHANNEL PROTECTION
  -  SEEDING AND MULCHING WITH CONTROL NETTING

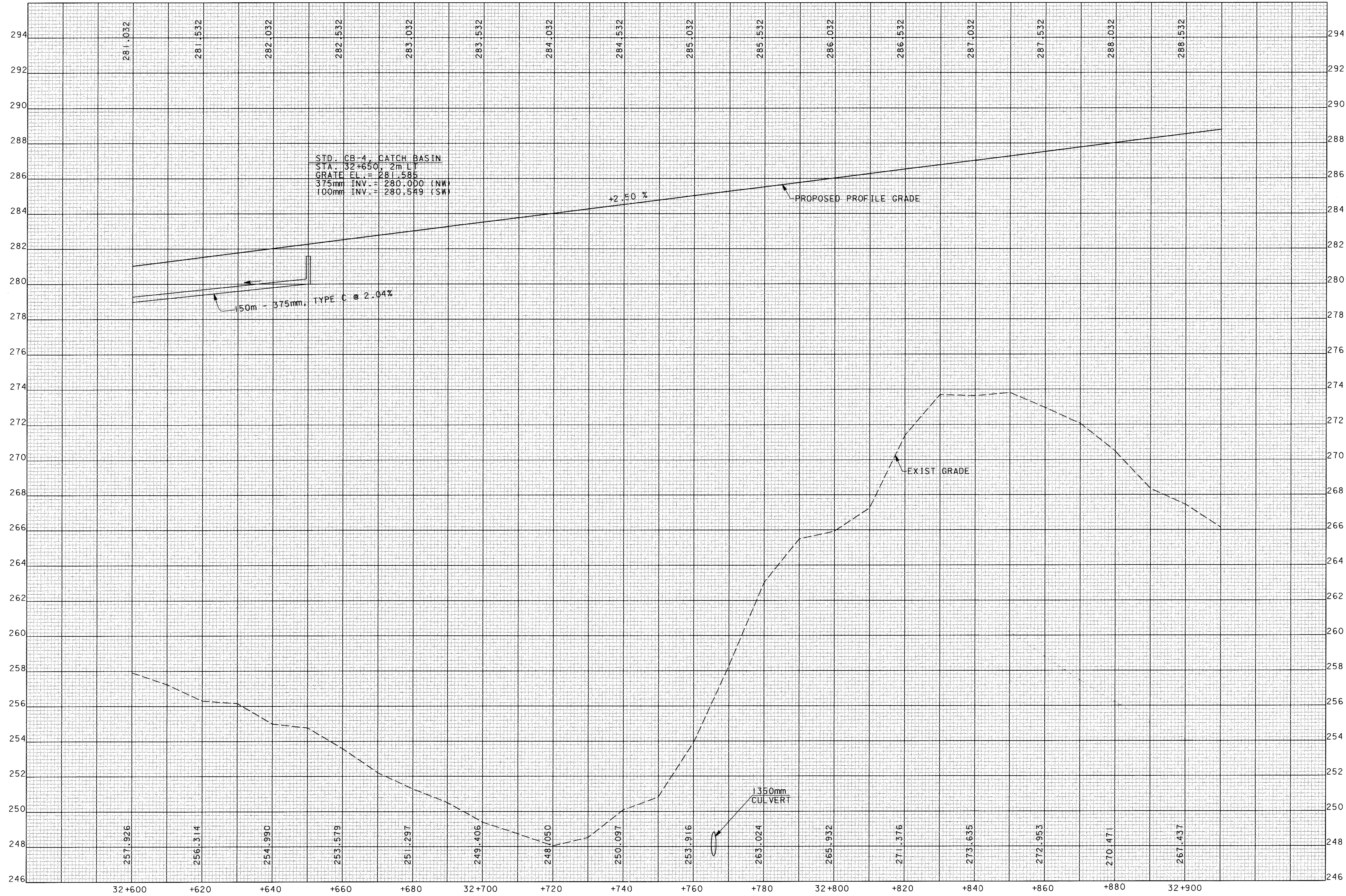
FOR CULVERT DETAILS, SEE SHEETS 845 AND 846  
 FOR ESTIMATED QUANTITIES, SEE SHEET 128



CALCULATED	PR	CHECKED	AM

**US 33 MAINLINE PLAN**  
**STA 32+600 TO STA 32+910**

**ATH-33-30.981**



STD. CB-4, CATCH BASIN  
STA. 32+650, 2m LT  
GRATE EL. = 281.585  
375mm INV. = 280.000 (NW)  
100mm INV. = 280.549 (SW)

150m - 375mm, TYPE C @ 2.04%

+2.50%

PROPOSED PROFILE GRADE

EXIST GRADE

1350mm  
CULVERT

CALCULATED  
PRS  
CHECKED  
AM

PROFILE - US 33  
STA 32+600.000 TO STA 32+910.000


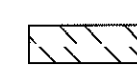
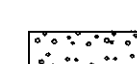
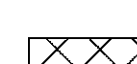
ATH-33-30.981

123  
956

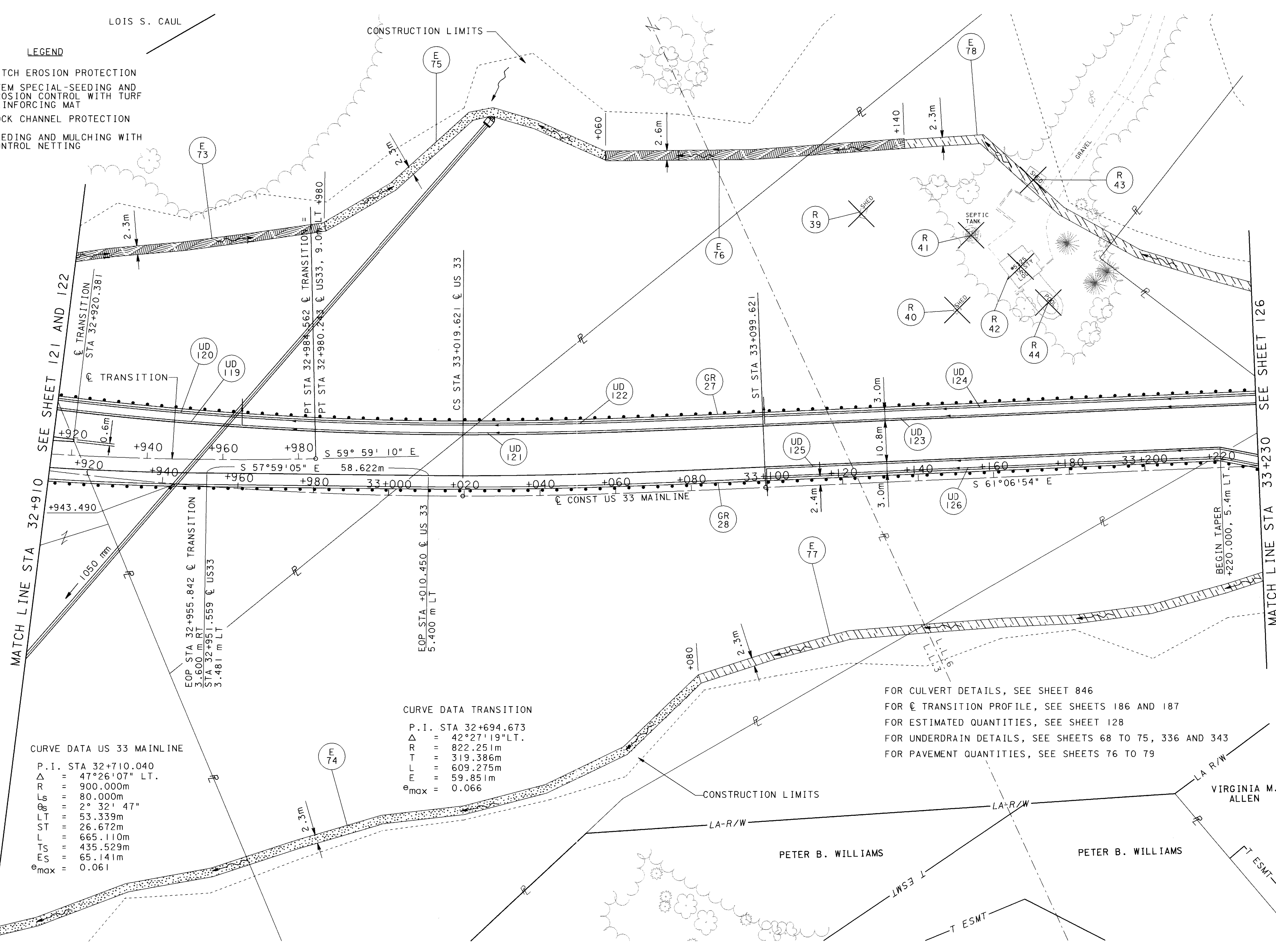


LOIS S. CAUL

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

CONSTRUCTION LIMITS



MATCH LINE STA 32+910 SEE SHEET 121 AND 122

PT STA 32+984.562  $\phi$  TRANSITION =

PT STA 32+980.243  $\phi$  US33, 9.0m LT +980

CS STA 33+019.621  $\phi$  US 33

ST STA 33+099.621

EOP STA 32+955.842  $\phi$  TRANSITION

STA 32+951.559  $\phi$  US33

3.481 m LT

EOP STA +010.450  $\phi$  US 33

5.400 m LT

CURVE DATA US 33 MAINLINE

P.I. STA 32+710.040

$\Delta$  = 47°26'07" LT.

R = 900.000m

Ls = 80.000m

Os = 2° 32' 47"

LT = 53.339m

ST = 26.672m

L = 665.110m

TS = 435.529m

ES = 65.141m

$e_{max}$  = 0.061

CURVE DATA TRANSITION

P.I. STA 32+694.673

$\Delta$  = 42°27'19" LT.

R = 822.251m

T = 319.386m

L = 609.275m

E = 59.851m

$e_{max}$  = 0.066

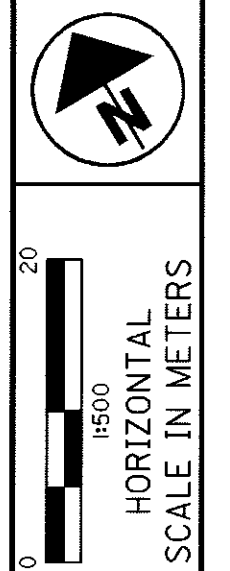
FOR CULVERT DETAILS, SEE SHEET 846

FOR  $\phi$  TRANSITION PROFILE, SEE SHEETS 186 AND 187

FOR ESTIMATED QUANTITIES, SEE SHEET 128

FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 336 AND 343

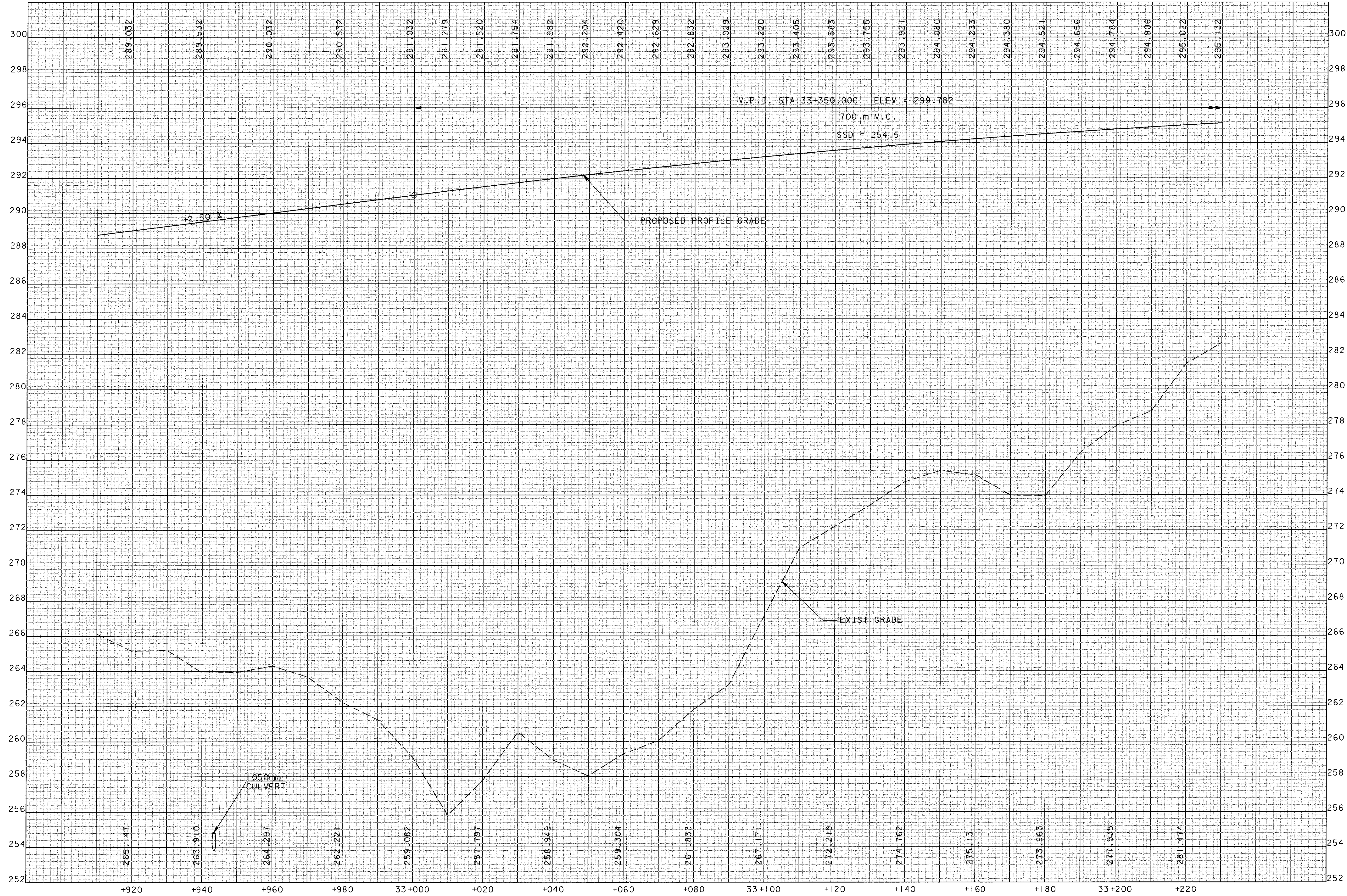
FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79



CALCULATED PRS CHECKED AM

US 33 MAINLINE PLAN  
STA 32+910 TO STA 33+230

ATH-33-30.981



CALCULATED  
 PRS  
 CHECKED  
 AM

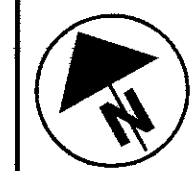
**PROFILE - US 33  
 STA 32+910.000 TO STA 33+230.000**

**ATH-33-30.981**

PETER YU & MINE-HWA CHEN

CURVE DATA US 33 MAINLINE

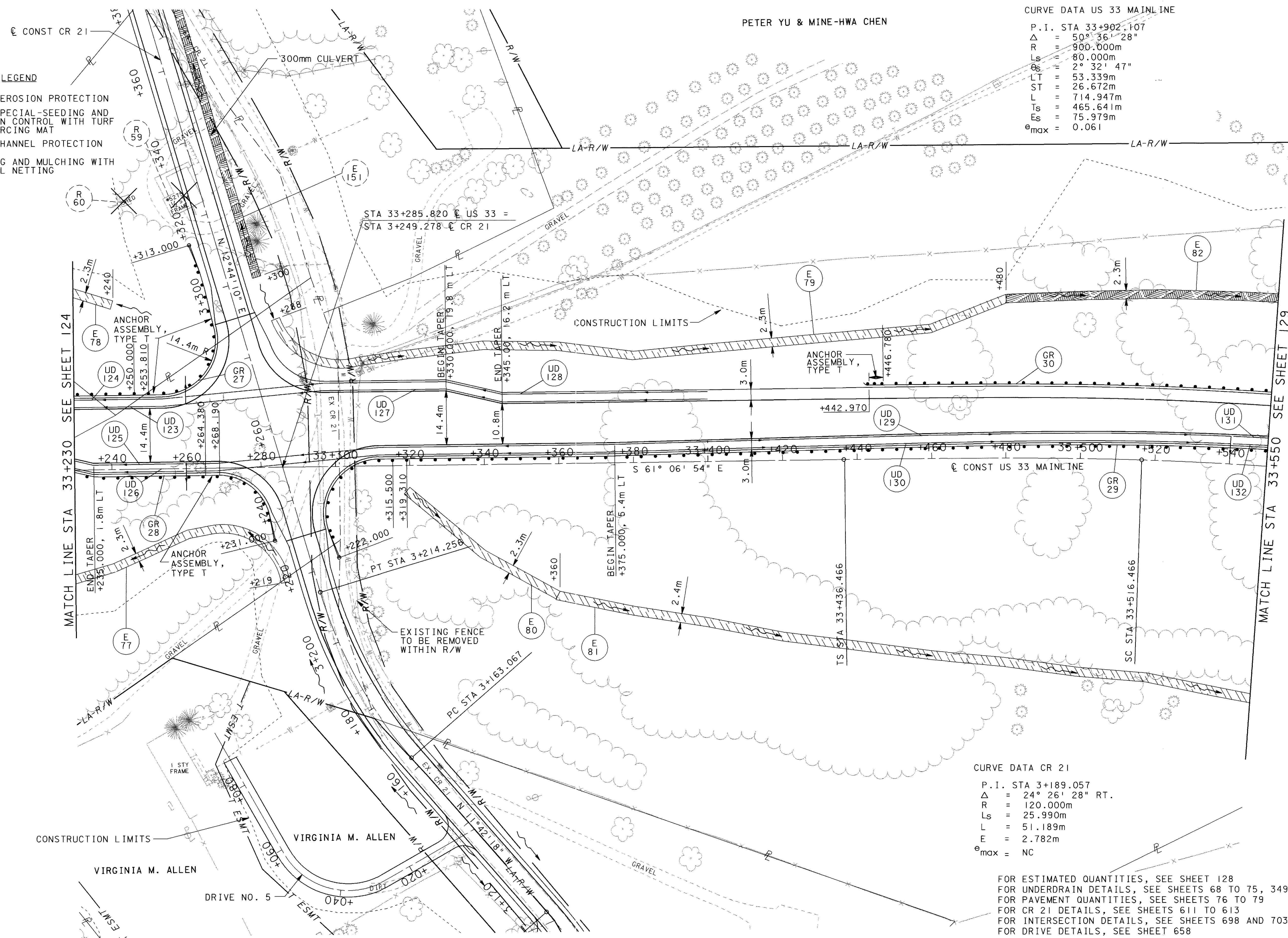
P.I. STA 33+902.107  
 $\Delta = 50^{\circ} 36' 28''$   
 $R = 900.000m$   
 $L_s = 80.000m$   
 $\theta_s = 2^{\circ} 32' 47''$   
 $LT = 53.339m$   
 $ST = 26.672m$   
 $L = 714.947m$   
 $T_s = 465.641m$   
 $E_s = 75.979m$   
 $e_{max} = 0.061$



0 20 1500  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 PRS  
 CHECKED  
 AM

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING



CURVE DATA CR 21

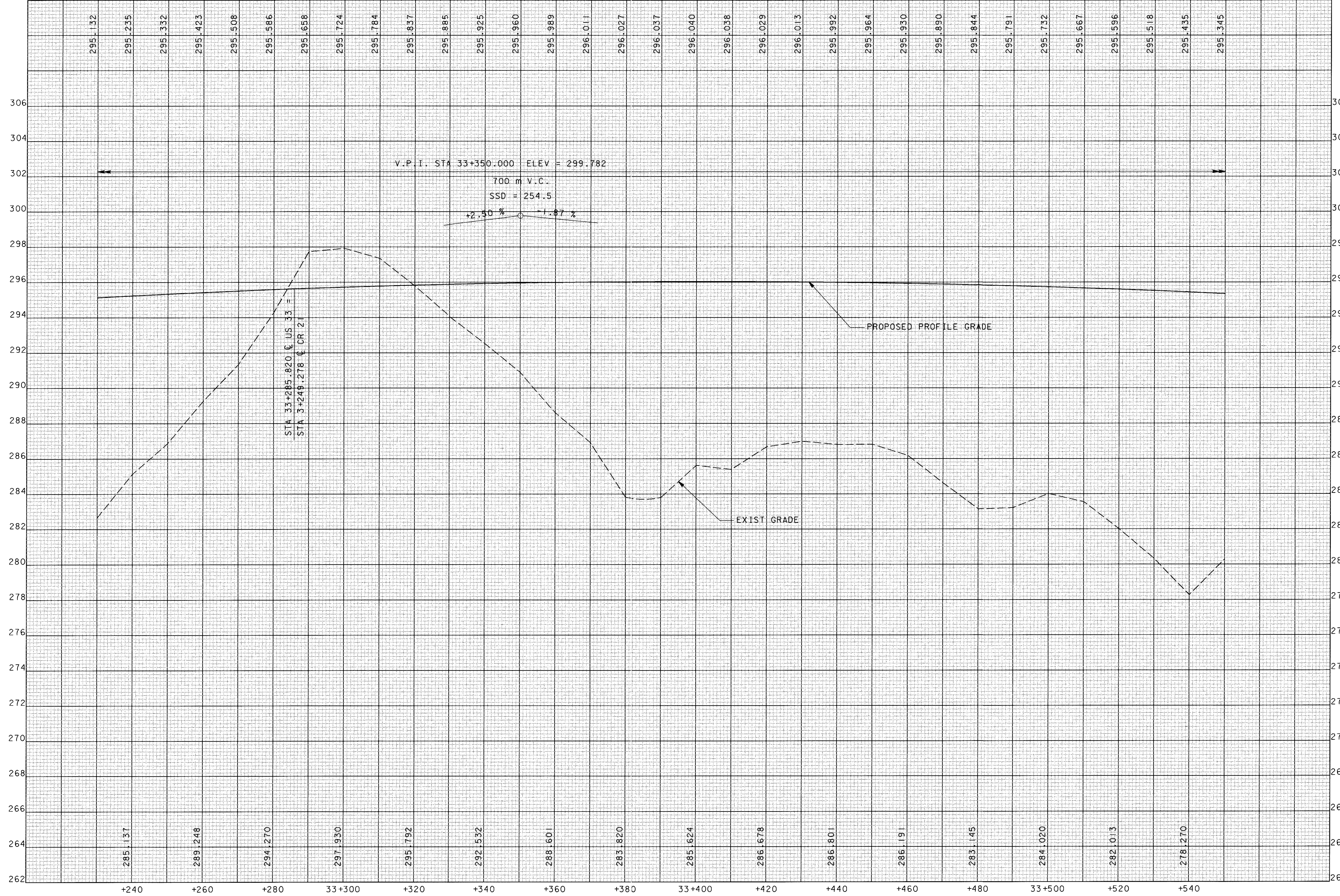
P.I. STA 3+189.057  
 $\Delta = 24^{\circ} 26' 28''$  RT.  
 $R = 120.000m$   
 $L_s = 25.990m$   
 $L = 51.189m$   
 $E = 2.782m$   
 $e_{max} = NC$

FOR ESTIMATED QUANTITIES, SEE SHEET 128  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 349 AND 359  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR CR 21 DETAILS, SEE SHEETS 611 TO 613  
 FOR INTERSECTION DETAILS, SEE SHEETS 698 AND 703  
 FOR DRIVE DETAILS, SEE SHEET 658

**US 33 MAINLINE PLAN**  
**STA 33+230 TO STA 33+550**

**ATH-33-30.981**

126  
 956



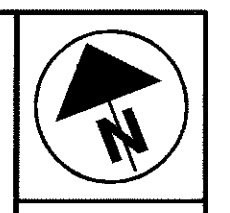
**ATH - 33 - 30.981**  
**PROFILE - US 33**  
**STA 33+230.000 TO STA 33+550.000**

REF NO.	SHEET NO.	STATION		SIDE	202	202	448	601	603	604	606	606	606	626	626	670	SPECIAL	SPECIAL							
					BUILDING DEMOLISHED	SEPTIC TANK REMOVED	50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	375mm CONDUIT, TYPE C	CATCH BASIN, NO. 4	GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE A	ANCHOR ASSEMBLY, TYPE T	BARRIER REFLECTORS, TYPE A	BARRIER REFLECTORS, TYPE A2	DITCH EROSION PROTECTION	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2							
					EACH	EACH	CU. METER	CU. METER	METER	EACH	METER	EACH	EACH	EACH	EACH	SQ. METER	SQ. METER	SQ. METER							
D51	121	32+600.000	32+650.000	LT					50	1															
E66	121	32+600.000	32+620.000	LT											50.5										
E67	121	32+600.000	32+650.000	LT&RT											115.0										
E68	121	32+600.000	32+660.000	RT												152.5									
E69	121	32+620.000	32+840.000	LT				275.8																	
E70	121	32+652.000	32+702.000	LT											115.0										
E71	121, 122	32+660.000	32+794.000	RT				195.0																	
E72	122	32+794.000	32+854.000	RT												163.3									
E73	121, 124	32+860.000	32+980.000	LT											266.1										
E74	122, 124	32+854.000	33+080.000	RT				308.4																	
E75	124	32+980.000	33+060.000	LT				99.1																	
E76	124	33+060.000	33+140.000	LT											205.7										
E77	124, 126	33+080.000	33+280.000	RT																	504.2				
E78	124, 126	33+140.000	33+240.000	LT																	261.5				
E79	126	3+280.000, CR21	33+480.000	LT&RT																	473.8				
E80	126	33+320.000	33+360.000	RT												115.0									
E81	126	33+360.000	33+550.000	RT												448.8									
E82	126	33+480.000	33+550.000	LT											167.9										
GR27	121, 124, 126	32+600.000	3+313.000, (CR 21)	LT			51.9			691.91	1	2	10	15											
GR28	121, 124, 126	32+600.000	3+231.000, (CR 21)	RT			51.5			687.24	1	1	10	14											
GR29	126	3+222.000 (CR 21)	33+550.000	LT			19.6			261.17	1	1	10	10											
GR30	126	33+442.970	33+550.000	LT			8.1			103.22	1	1	4	4											
R39	124	33+127.000		LT	1																				
R40	124	33+155.000		LT	1																				
R41	124	33+160.000		LT		1																			
R42	124	33+168.000		LT	1																				
R43	124	33+173.000		LT	1																				
R44	124	33+175.000		LT	1																				
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					5	1	131.1	878.3	50	1	1743.54	3	5	20	43	920.2	879.6	1239.5							

**ESTIMATED QUANTITIES  
 STA. 32+600 TO STA. 33+550**

**ATH-33-30.981**

CALCULATED  
 AML  
 CHECKED  
 AM



20  
1:500  
HORIZONTAL  
SCALE IN METERS


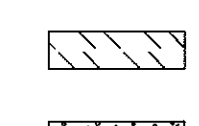
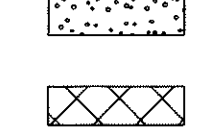
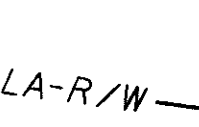
CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 33+550 TO STA 33+880**

**ATH-33-30.981**

129  
956

**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

PETER YU & MINE-HWA CHEN

**CURVE DATA US 33 MAINLINE**

P.I. STA 33+902.107  
 $\Delta = 50^\circ 36' 28''$  RT.  
 R = 900.000m  
 Ls = 80.000m  
 $\theta_s = 2^\circ 32' 47''$   
 LT = 53.339m  
 ST = 26.672m  
 L = 714.947m  
 Ts = 465.641m  
 ES = 75.979m  
 $e_{max} = 0.061$

MATCH LINE STA 33+550 SEE SHEET 126

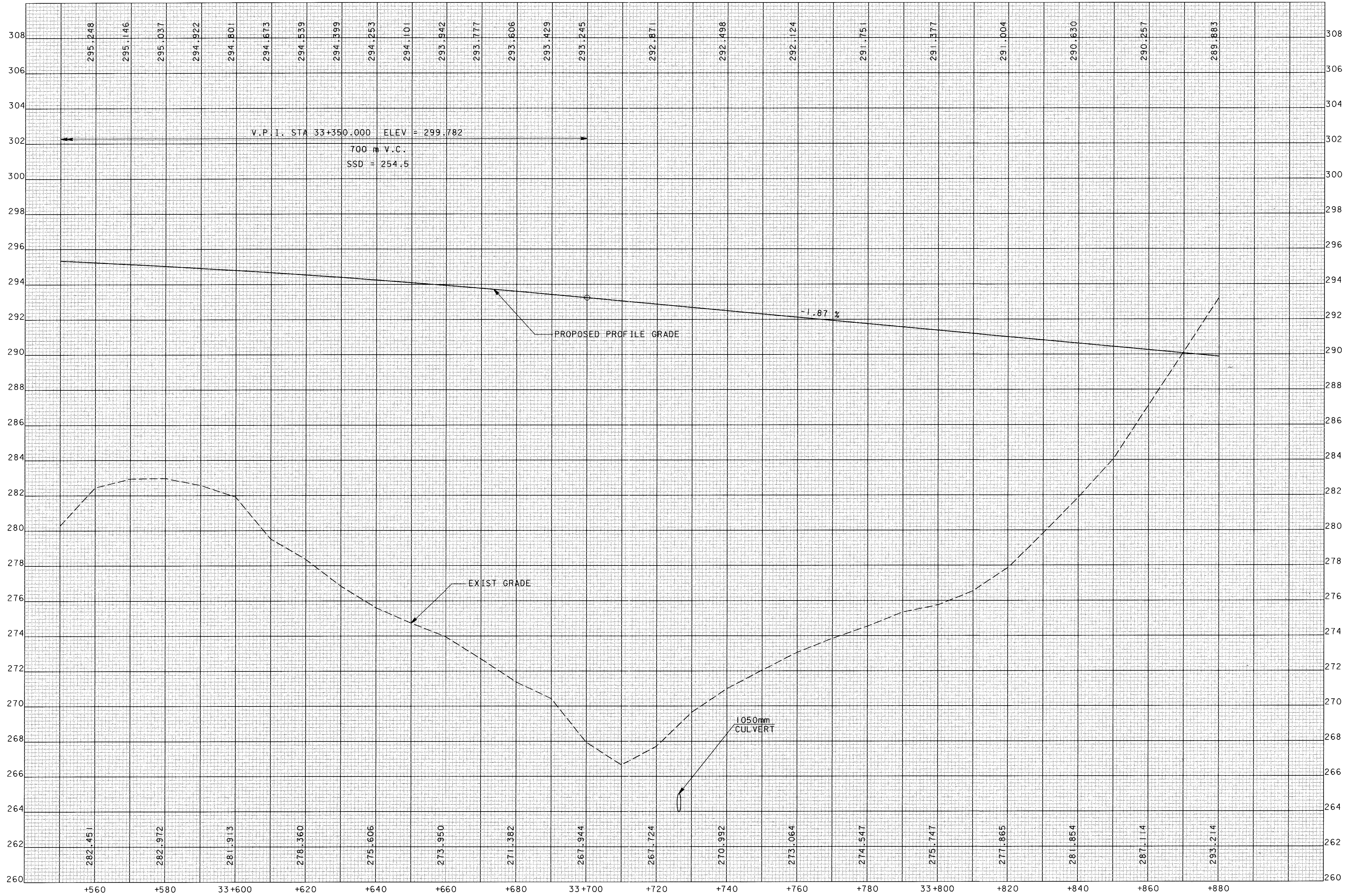
MATCH LINE STA 33+880 SEE SHEET 131

EXISTING POND TO BE DRAINED AND GRADED SO THAT NO PONDING WATER CAN ACCUMULATE APPROXIMATE SURFACE AREA = 3200 SQ. m

FOR CULVERT DETAILS, SEE SHEET 847  
 FOR ESTIMATED QUANTITIES, SEE SHEET 135  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 366 AND 373  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

04 FEB 2001 16:20:57 gr:\828\cdocs\p03313.dgn

05 FEB 2001 09:41H  
C:\B2B7\G00CS\VFUJ33\_15\G01


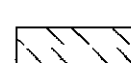
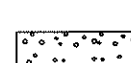



CALCULATED  
PRS  
CHECKED  
AM

PROFILE - US 33  
STA 33+550.000 TO STA 33+880.000


ATH-33-30.981

130  
956

- LEGEND**
-  DITCH EROSION PROTECTION
  -  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  -  ROCK CHANNEL PROTECTION
  -  SEEDING AND MULCHING WITH CONTROL NETTING

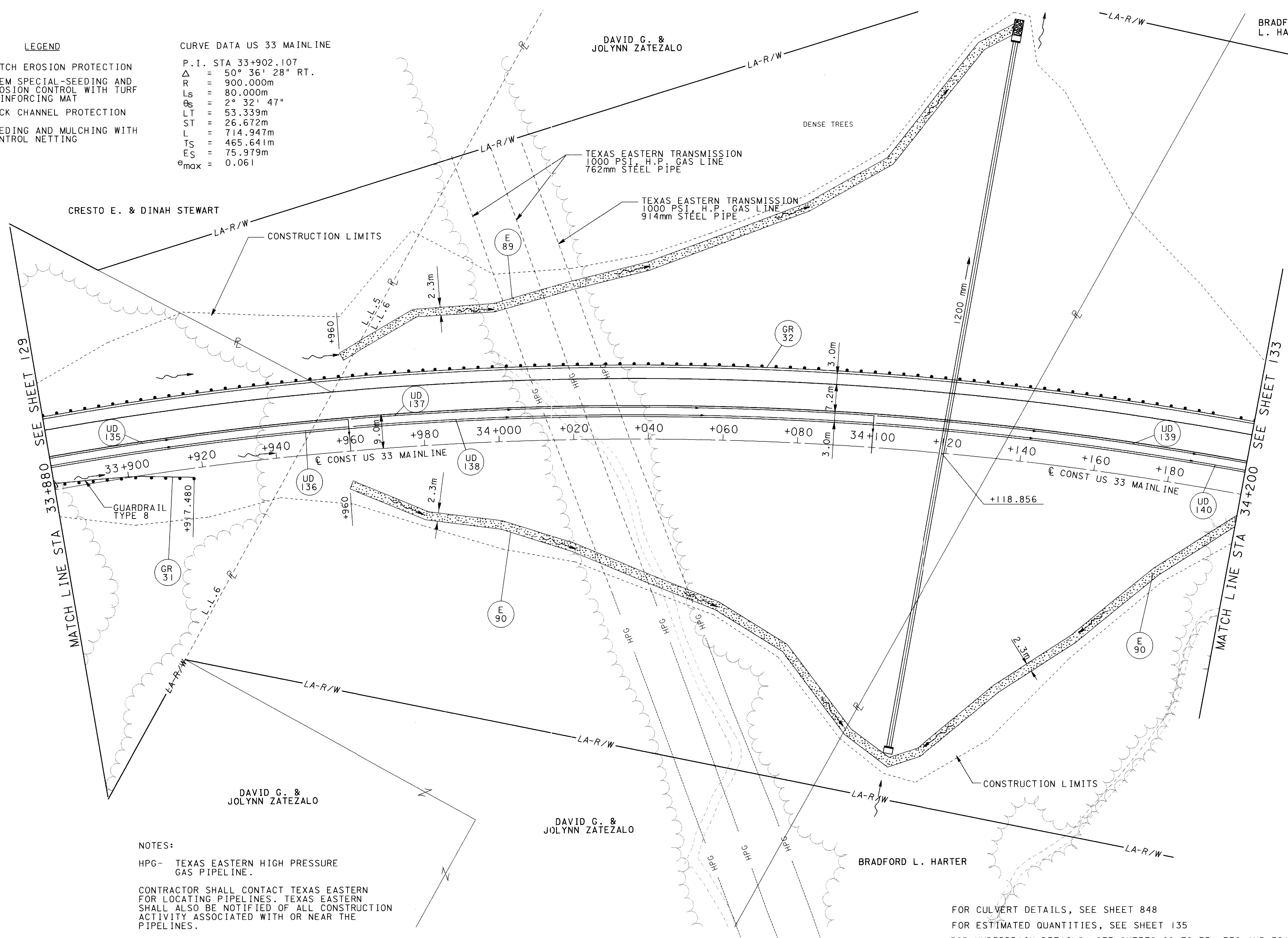
**CURVE DATA US 33 MAINLINE**  
 P.I. STA 33+902.107  
 $\Delta = 50^\circ 36' 28''$  RT.  
 $R = 900.000m$   
 $L_s = 80.000m$   
 $\theta_s = 2^\circ 32' 47''$   
 $LT = 53.339m$   
 $ST = 26.672m$   
 $L = 714.947m$   
 $TS = 465.641m$   
 $ES = 75.979m$   
 $e_{max} = 0.061$

BRADFORD L. HARTER



0 10 20  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 PRS  
 CHECKED  
 AM



**NOTES:**  
 HPG- TEXAS EASTERN HIGH PRESSURE GAS PIPELINE.  
 CONTRACTOR SHALL CONTACT TEXAS EASTERN FOR LOCATING PIPELINES. TEXAS EASTERN SHALL ALSO BE NOTIFIED OF ALL CONSTRUCTION ACTIVITY ASSOCIATED WITH OR NEAR THE PIPELINES.

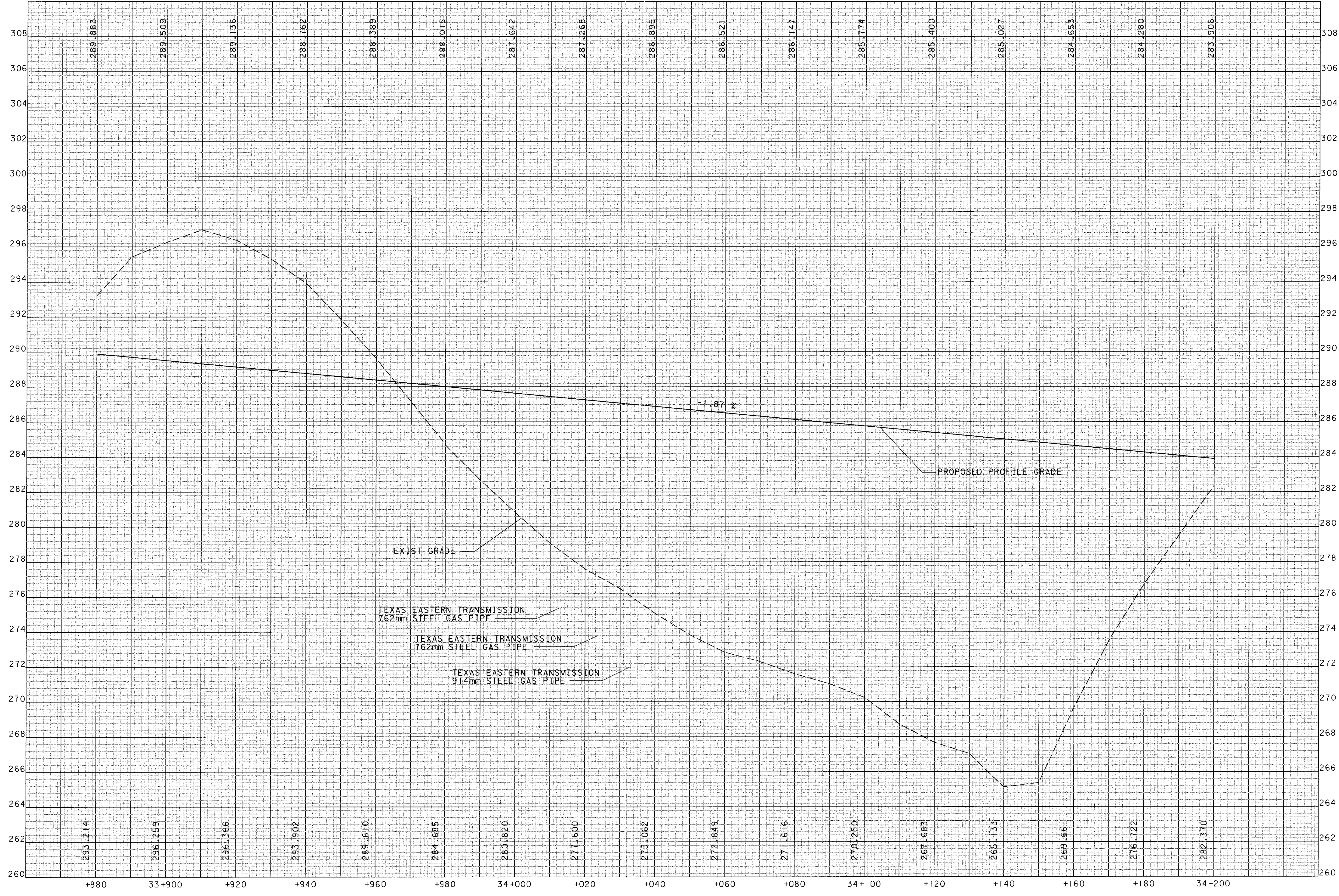
FOR CULVERT DETAILS, SEE SHEET 848  
 FOR ESTIMATED QUANTITIES, SEE SHEET 135  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 378 AND 381  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

**US 33 MAINLINE PLAN  
 STA 33+880 TO STA 34+200**

**ATH-33-30.981**

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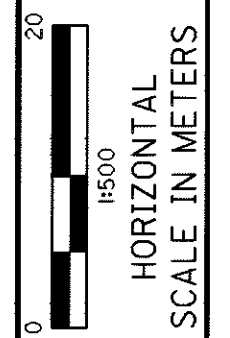
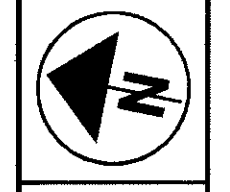




CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33**  
**STA 33+880.000 TO STA 34+200.000**

**ATH-33-30.981**



CALCULATED  
PRS  
CHECKED  
AM

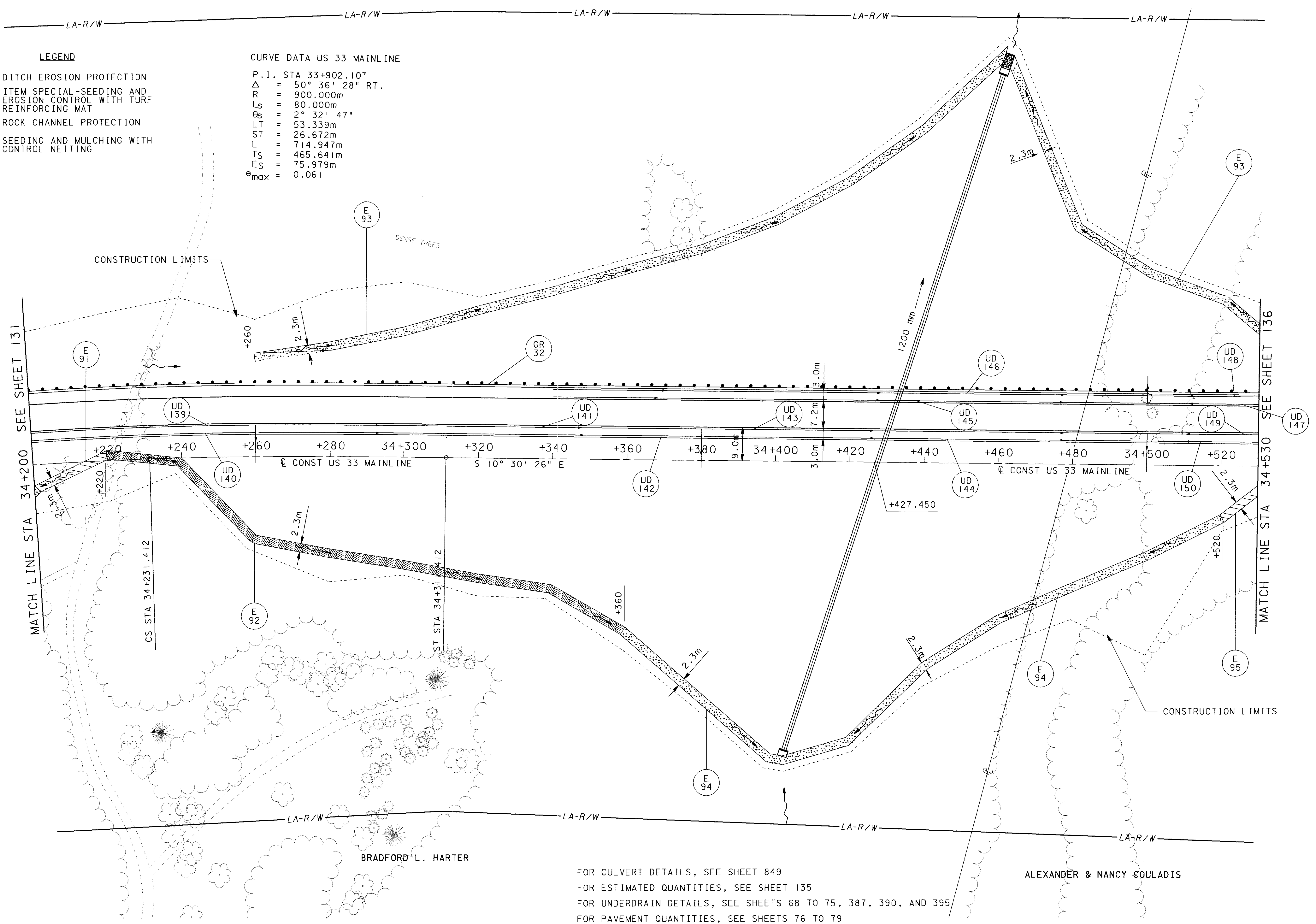
**US 33 MAINLINE PLAN  
STA 34+200 TO STA 34+530**

**ATH-33-30.981**

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING

**CURVE DATA US 33 MAINLINE**

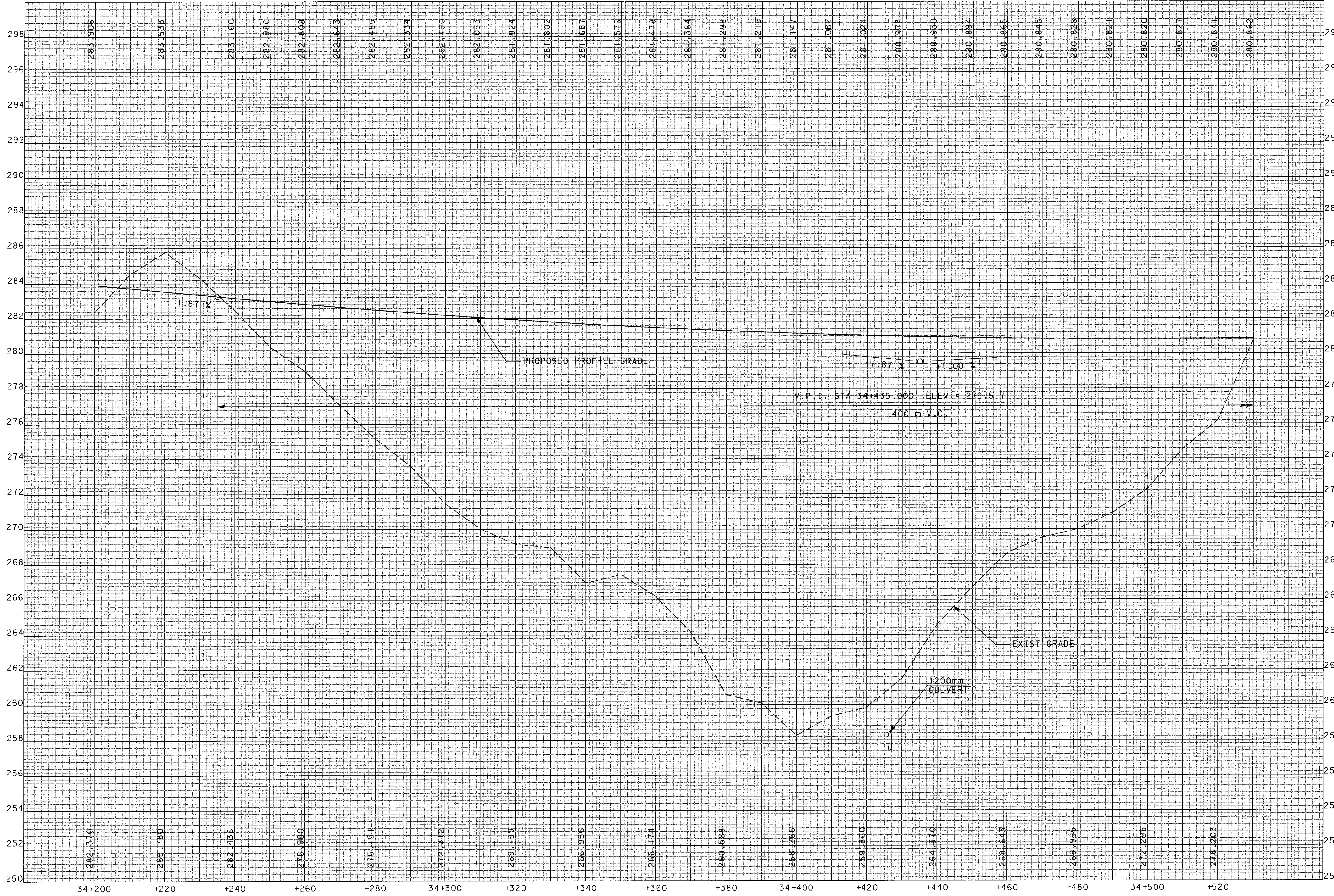
P.I. STA 33+902.107  
 $\Delta = 50^\circ 36' 28''$  RT.  
 $R = 900.000\text{m}$   
 $L_s = 80.000\text{m}$   
 $\theta_s = 2^\circ 32' 47''$   
 $LT = 53.339\text{m}$   
 $ST = 26.672\text{m}$   
 $L = 714.947\text{m}$   
 $TS = 465.641\text{m}$   
 $ES = 75.979\text{m}$   
 $e_{\text{max}} = 0.061$



FOR CULVERT DETAILS, SEE SHEET 849  
 FOR ESTIMATED QUANTITIES, SEE SHEET 135  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 387, 390, AND 395  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

ALEXANDER & NANCY COULADIS

BRADFORD L. HARTER




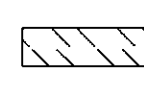
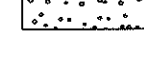

CALCULATED  
PRS  
CHECKED  
AM

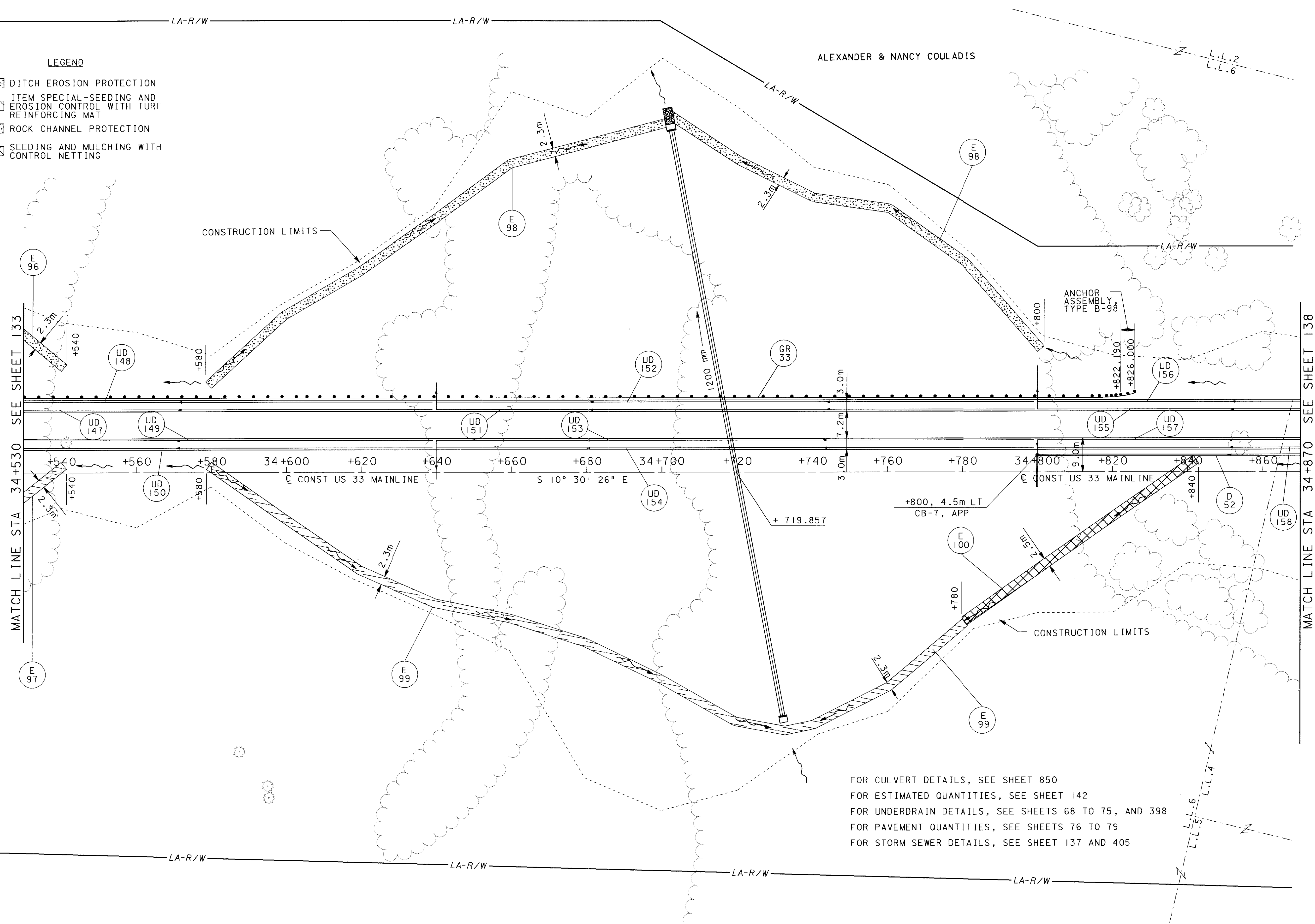
ATH-33-30.981  
PROFILE - US 33  
STA 34+200.000 TO STA 34+530.000

ATH-33-30.981

REF NO.	SHEET NO.	STATION		SIDE	202	448	601	606	606	606	626	670	SPECIAL	SPECIAL							
					SEPTIC TANK REMOVED	50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 8	POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	BARRIER REFLECTORS, TYPE A2	DITCH EROSION PROTECTION	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2							
		FROM	TO		EACH	CU. METER	CU. METER	METER	METER	EACH	EACH	SQ. METER	SQ. METER	SQ. METER							
E83	129	33+550.000	33+600.000	LT								120.8									
E84	129	33+550.000	33+644.000	RT									223.7								
E85	129	33+600.000	33+740.000	LT										357.0							
E86	129	33+644.000	33+840.000	RT									460.9								
E87	129	33+740.000	33+806.000	LT			101.8														
E88	129	33+840.000	33+880.000	RT								112.9									
E89	131	33+960.000	34+127.000	LT			229.5														
E90	131	33+960.000	34+200.000	RT			323.2														
E91	133	34+200.000	34+220.000	RT									49.9								
E92	133	34+220.000	34+360.000	RT								351.0									
E93	133	34+260.000	34+530.000	LT			376.6														
E94	133	34+360.000	34+520.000	RT			220.3														
E95	133	34+520.000	34+530.000	RT										29.4							
GR31	129,131	33+550.000	33+917.480	LT		21.0		279.85	87.63	1	12										
GR32	129,131,133	33+550.000	34+530.000	LT		73.5		980.0			32										
R101	129	33+600		LT	1																
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					1	94.5	1251.4	1259.85	87.63	1	44	584.7	734.5	386.4							

CALCULATED AML	CHECKED AM	<b>ESTIMATED QUANTITIES STA. 33+550 TO STA. 34+530</b>
		135 956

- LEGEND**
-  DITCH EROSION PROTECTION
  -  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  -  ROCK CHANNEL PROTECTION
  -  SEEDING AND MULCHING WITH CONTROL NETTING

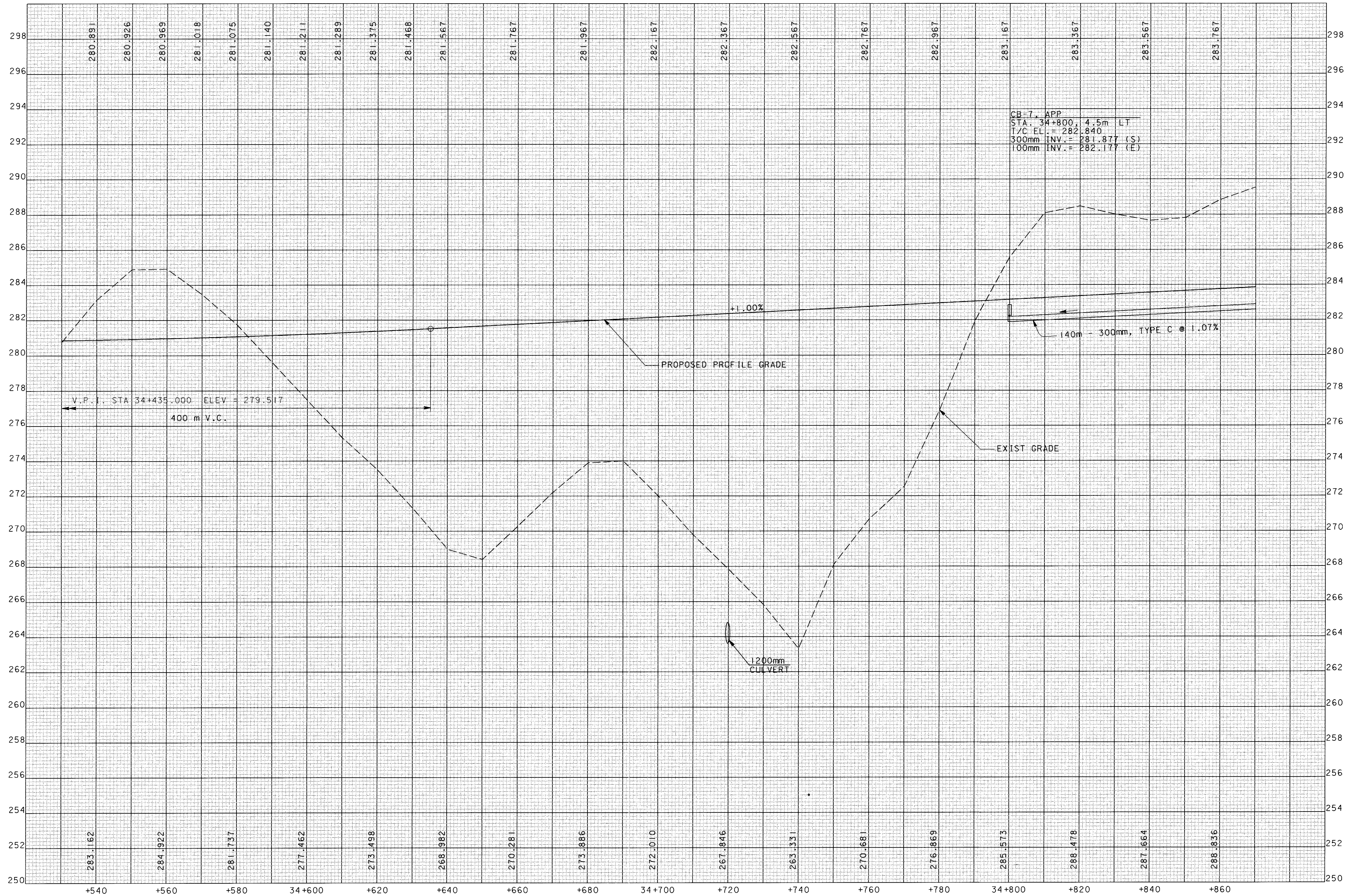


FOR CULVERT DETAILS, SEE SHEET 850  
 FOR ESTIMATED QUANTITIES, SEE SHEET 142  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, AND 398  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 137 AND 405

04 FEB 2001 10:03:47  
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ALEXANDER & NANCY COULADIS

ALEXANDER & NANCY COULADIS



CB-7, APP  
 STA 34+800, 4.5m LT  
 T/C EL = 282.840  
 300mm INV. = 281.877 (S)  
 100mm INV. = 282.177 (E)

CALCULATED  
 PRS  
 CHECKED  
 AM

**PROFILE - US 33**  
**STA 34+530.000 TO STA 34+870.000**

**ATH-33-30.981**

ALEXANDER & NANCY COULADIS



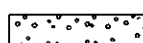
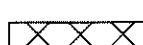
ALEXANDER & NANCY COULADIS

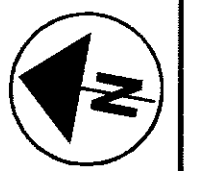
ALEXANDER & NANCY COULADIS

MATCH LINE STA 34+870 SEE SHEET 136

MATCH LINE STA 35+200 SEE SHEET 140

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



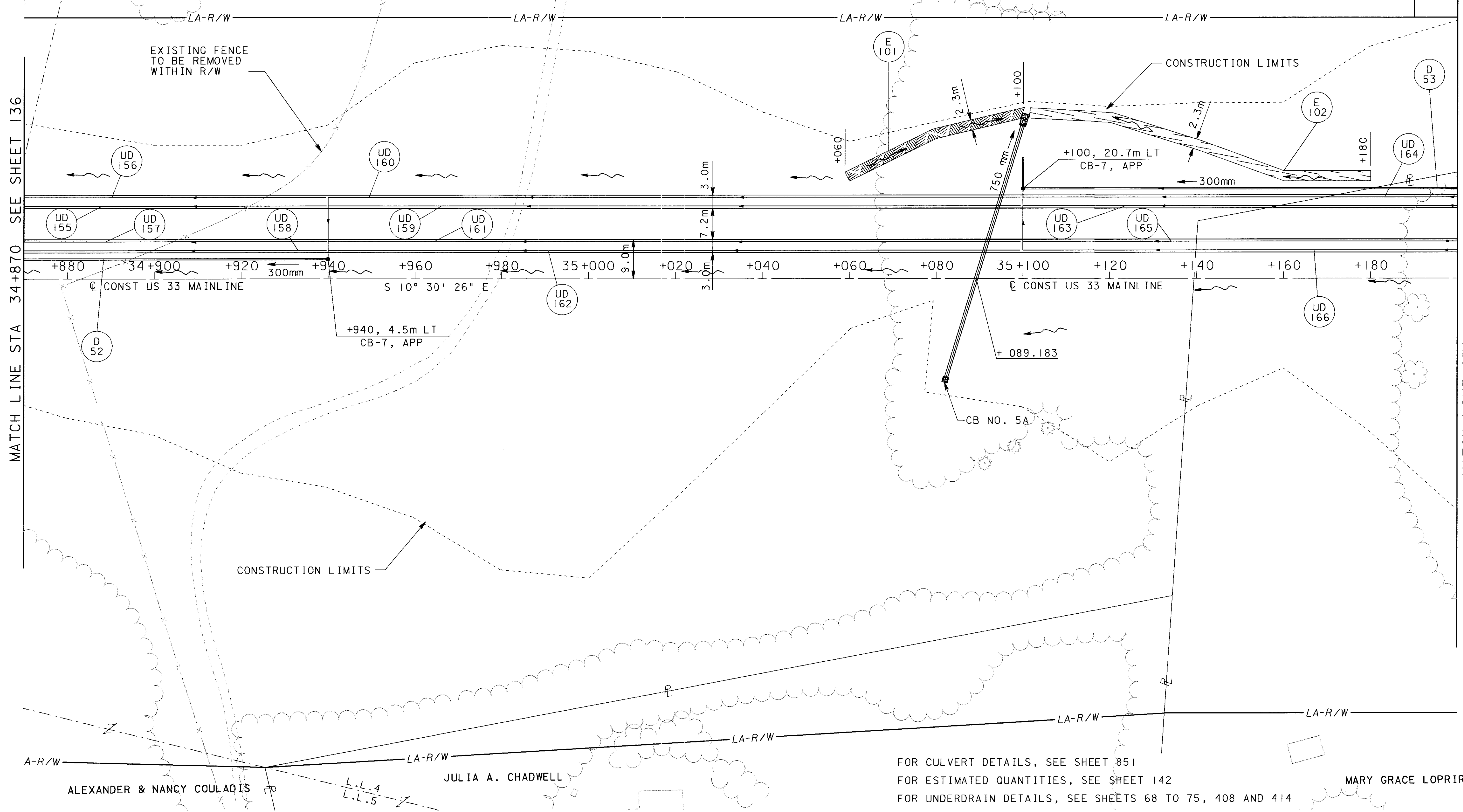
0 20  
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HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

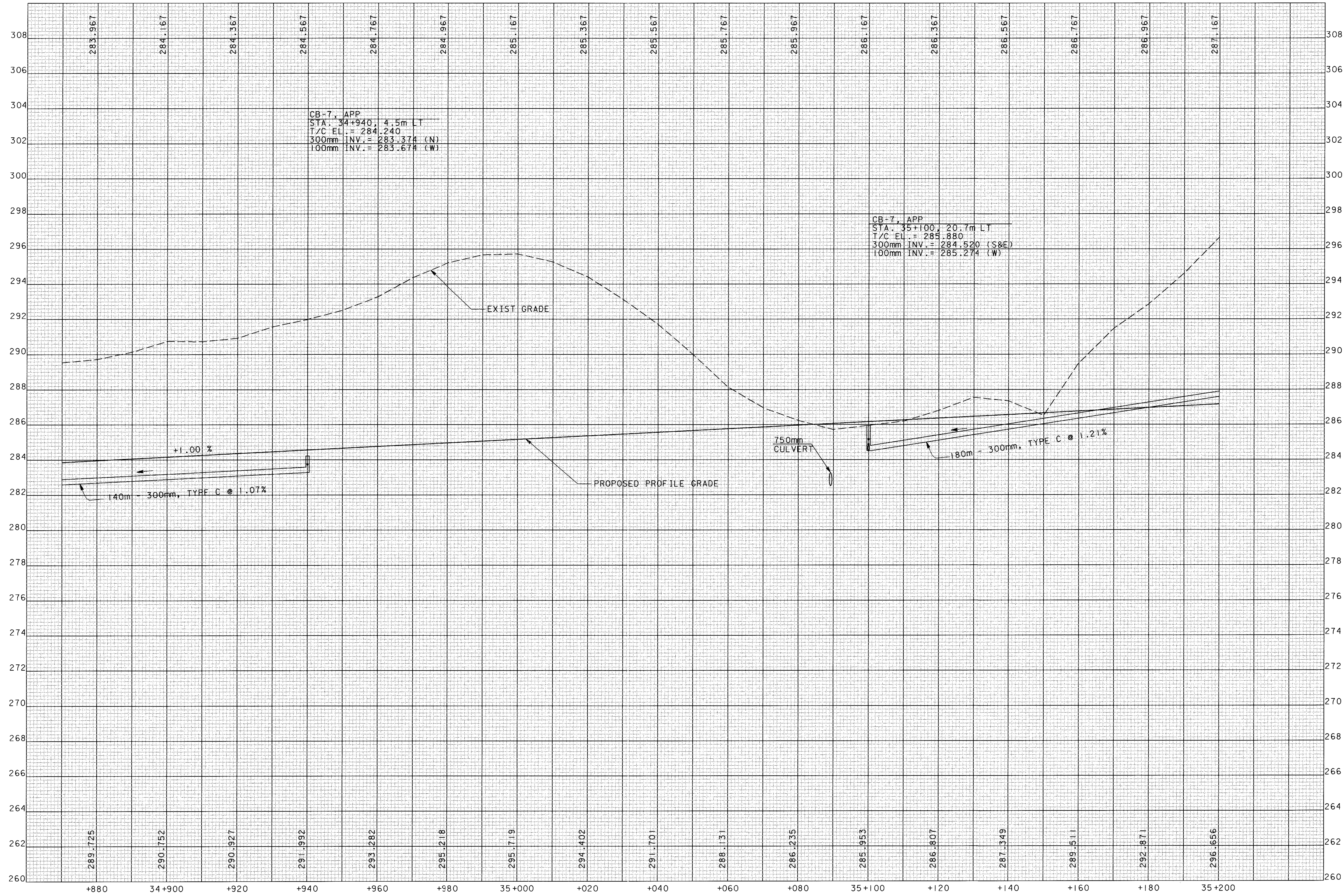
US 33 MAINLINE PLAN  
STA 34+870 TO STA 35+200

ATH-33-30.981

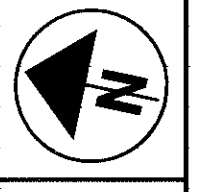
138  
956



FOR CULVERT DETAILS, SEE SHEET 851  
 FOR ESTIMATED QUANTITIES, SEE SHEET 142  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 408 AND 414  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 139 AND 414







20  
1500  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

US 33 MAINLINE PLAN  
STA 35+200 TO STA 35+520

ATH-33-30.981

140  
956

LEGEND

- DITCH EROSION PROTECTION
- ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
- ROCK CHANNEL PROTECTION
- SEEDING AND MULCHING WITH CONTROL NETTING

ALEXANDER & NANCY  
E. COULADIS

CURVE DATA SERVICE ROAD

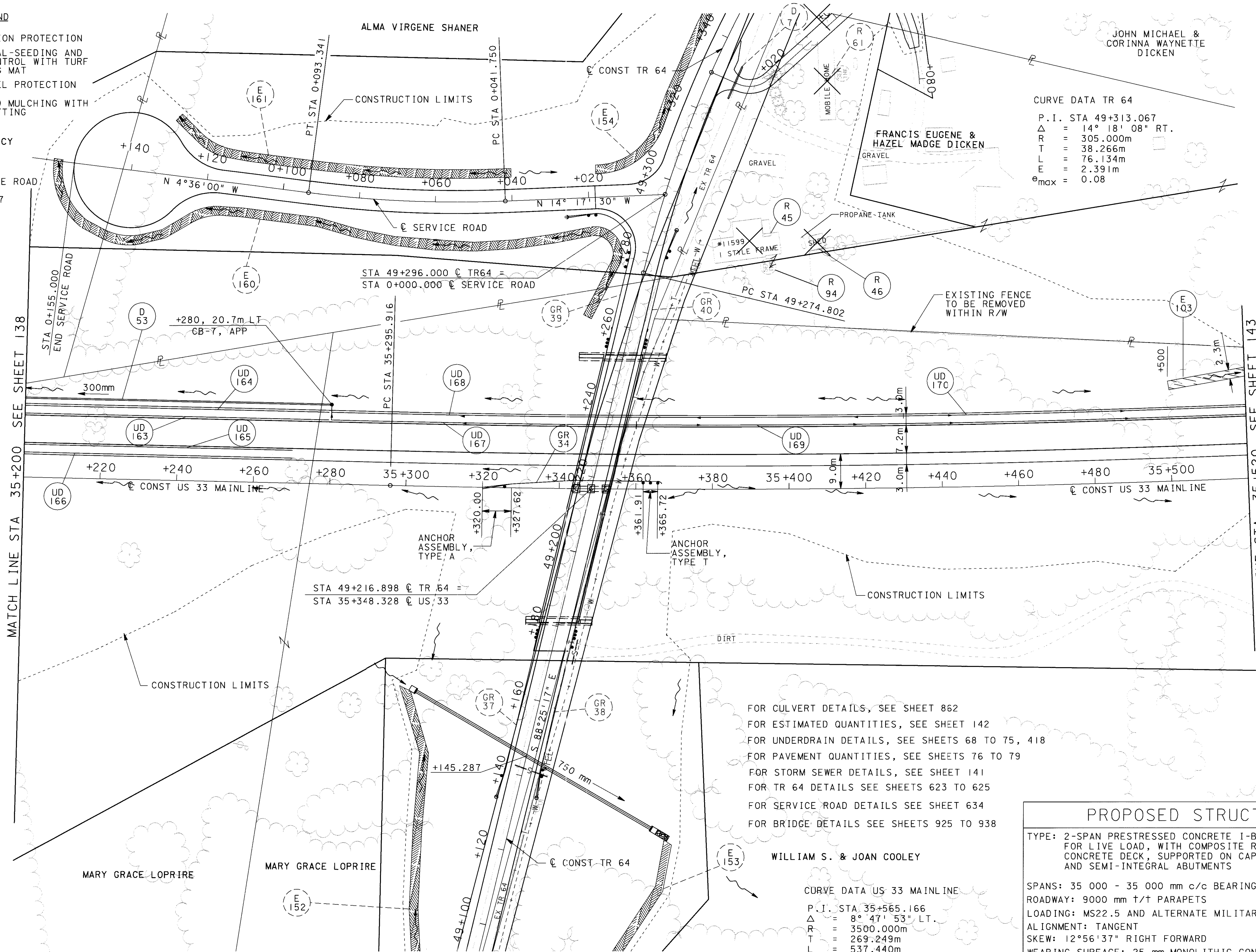
P.I. STA 0+067.607  
 $\Delta = 9^{\circ}41'30''$  RT  
 R = 305.000m  
 T = 25.875m  
 L = 51.591m  
 E = 1.094m  
 $e_{max} = NC$

CURVE DATA TR 64

P.I. STA 49+313.067  
 $\Delta = 14^{\circ}18'08''$  RT.  
 R = 305.000m  
 T = 38.266m  
 L = 76.134m  
 E = 2.391m  
 $e_{max} = 0.08$

MATCH LINE STA 35+200 SEE SHEET 138

MATCH LINE STA 35+520 SEE SHEET 143



- FOR CULVERT DETAILS, SEE SHEET 862
- FOR ESTIMATED QUANTITIES, SEE SHEET 142
- FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 418
- FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
- FOR STORM SEWER DETAILS, SEE SHEET 141
- FOR TR 64 DETAILS SEE SHEETS 623 TO 625
- FOR SERVICE ROAD DETAILS SEE SHEET 634
- FOR BRIDGE DETAILS SEE SHEETS 925 TO 938

WILLIAM S. & JOAN COOLEY

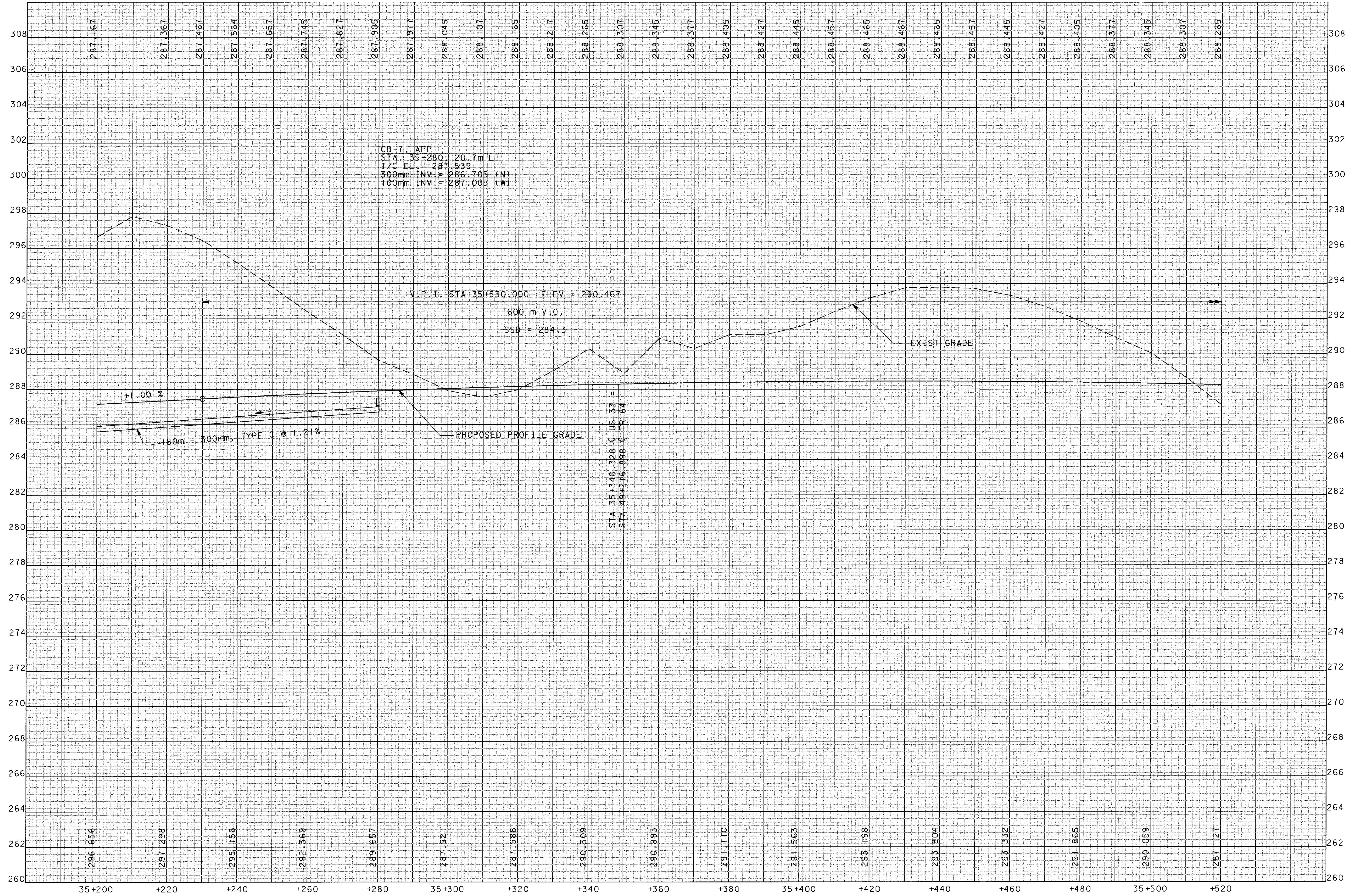
CURVE DATA US 33 MAINLINE

P.I. STA 35+565.166  
 $\Delta = 8^{\circ}47'53''$  LT.  
 R = 3500.000m  
 T = 269.249m  
 L = 537.440m  
 E = 10.341m  
 $e_{max} = 0.018$

PROPOSED STRUCTURE

TYPE: 2-SPAN PRESTRESSED CONCRETE I-BEAMS, CONTINUOUS FOR LIVE LOAD, WITH COMPOSITE REINFORCED CONCRETE DECK, SUPPORTED ON CAP AND COLUMN PIER AND SEMI-INTEGRAL ABUTMENTS

SPANS: 35 000 - 35 000 mm c/c BEARINGS  
 ROADWAY: 9000 mm t/t PARAPETS  
 LOADING: MS22.5 AND ALTERNATE MILITARY LOADING  
 ALIGNMENT: TANGENT  
 SKEW: 12°56'37" RIGHT FORWARD  
 WEARING SURFACE: 25 mm MONOLITHIC CONCRETE  
 APPROACH SLABS: AS-1-81M (7600 mm LONG)  
 SUPERELEVATION: VARIES  
 LONGITUDE: W 39°15'24"  
 LATITUDE: N 82°05'08"

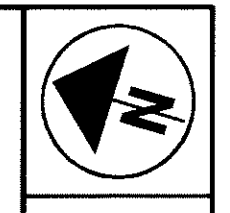


CALCULATED  
PRS  
CHECKED  
AM

ATH-33-30.981  
PROFILE - US 33  
STA 35+200.000 TO STA 35+520.000

REF NO.	SHEET NO.	STATION		SIDE	202	202	448	601	603	604	606	606	606	606	626	670	672	SPECIAL	SPECIAL						
					BUILDING DEMOLISHED	SEPTIC TANK REMOVED	50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG64-22 (UNDER GUARDRAIL)	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	300mm CONDUIT, TYPE C	CATCH BASIN, NO. 7, AS PER PLAN	GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE B-98	ANCHOR ASSEMBLY, TYPE T	ANCHOR ASSEMBLY, TYPE A	BARRIER REFLECTORS, TYPE A2	DITCH EROSION PROTECTION	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2						
					EACH	EACH	CU. METER	CU. METER	METER	EACH	METER	EACH	EACH	EACH	EACH	SQ. METER	SQ. METER	SQ. METER	SQ. METER						
D52	136, 138	34+800.000	34+940.000	LT&RT					148.40	2															
D53	138, 140	35+100.000	35+280.000	LT					187.10	2															
E96	136	34+530.000	34+540.000	LT				15.0																	
E97	136	34+530.000	34+540.000	RT																	29.4				
E98	136	34+580.000	34+800.000	LT				300.8																	
E99	136	34+580.000	34+780.000	RT														519.8							
E100	136	34+780.000	34+840.000	RT												188.0									
E101	138	35+060.000	35+100.000	LT											96.8										
E102	138	35+100.000	35+180.000	LT													186.1								
E103	140	35+500.000	35+520.000	LT													46.2								
GR33	136	34+530.000	34+826.000	LT			21.4			292.19	1			11											
GR34	140	35+319.950	35+365.670	LT						34.29		1	1	3											
R45	140	35+390.000		LT	1																				
R46	140	35+405.000		LT	1																				
R94	140	35+395		LT		1																			
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					2	1	21.4	315.8	335.5	4	326.48	1	1	1	14	96.8	188.0	752.1	29.4						

CALCULATED AML  
 CHECKED AM  
**ESTIMATED QUANTITIES**  
**STA. 34+530 TO STA. 35+520**  
**ATH-33-30.981**  
 142  
 956



0 10 20  
 1:500  
 HORIZONTAL  
 SCALE IN METERS


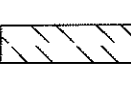


CALCULATED  
 PRS  
 CHECKED  
 AM

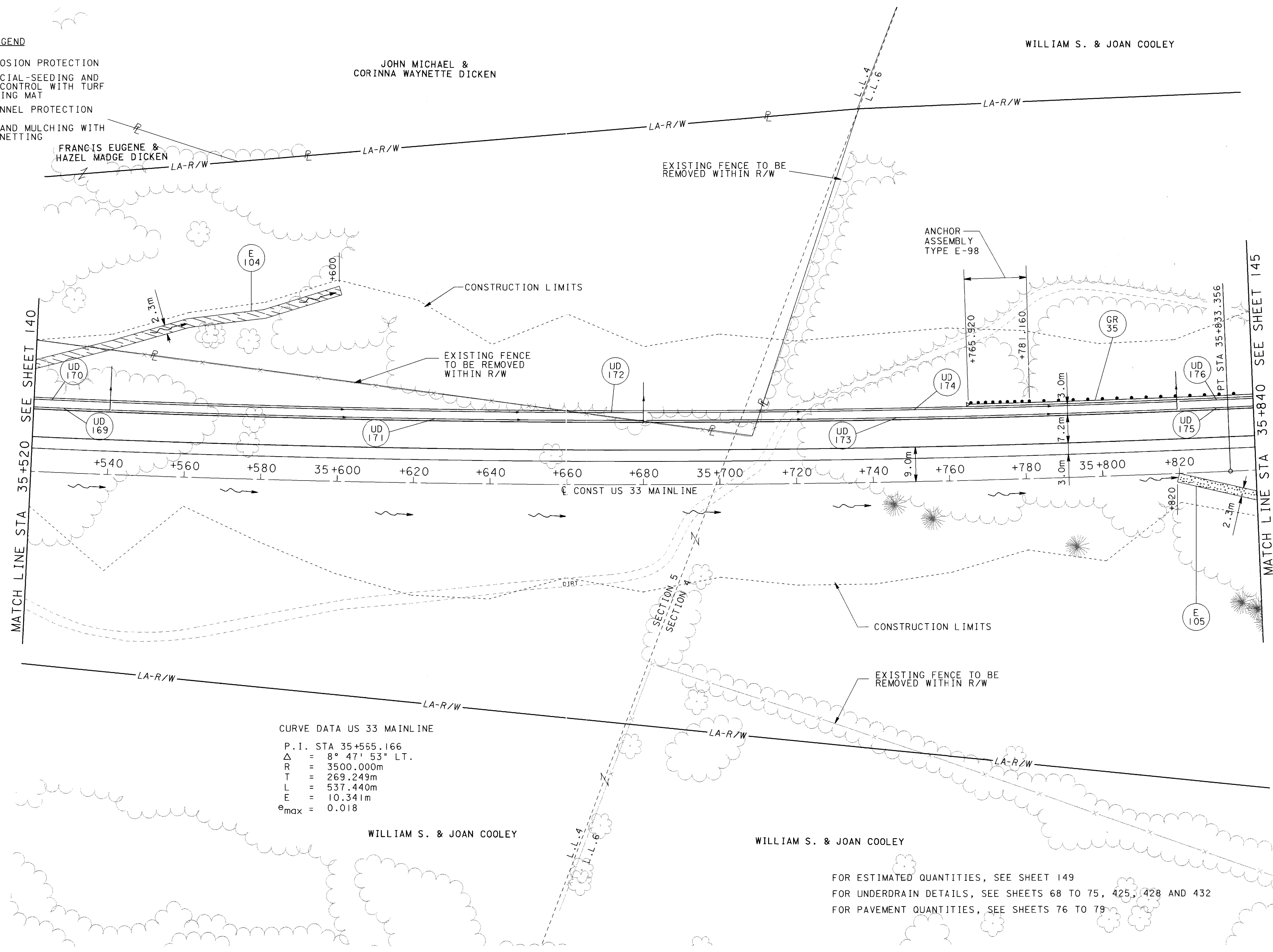
**US 33 MAINLINE PLAN**  
**STA 35+520 TO STA 35+840**

**ATH-33-30.981**

143  
 956

**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

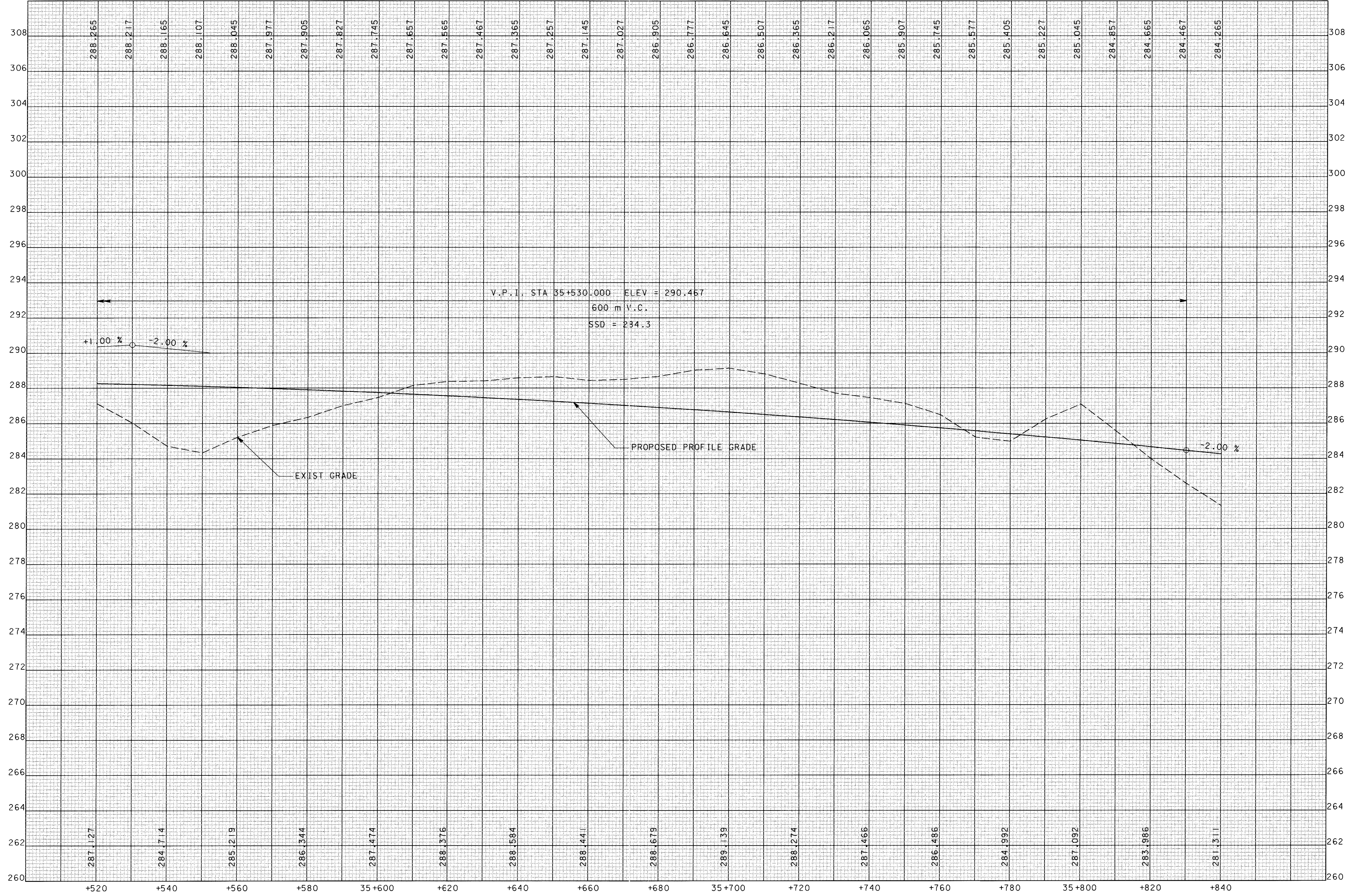


**CURVE DATA US 33 MAINLINE**

P.I.	=	STA 35+565.166
$\Delta$	=	8° 47' 53" LT.
R	=	3500.000m
T	=	269.249m
L	=	537.440m
E	=	10.341m
$e_{max}$	=	0.018

FOR ESTIMATED QUANTITIES, SEE SHEET 149  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 425, 428 AND 432  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

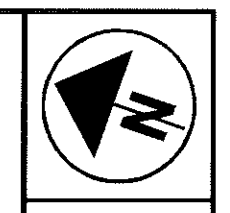
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CALCULATED  
 PRS  
 CHECKED  
 AM

**PROFILE - US 33**  
**STA 35+520.000 TO STA 35+840.000**

**ATH-33-30.981**



0 10 20  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM


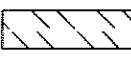
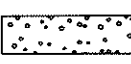

**US 33 MAINLINE PLAN  
STA 35+840 TO STA 36+160**

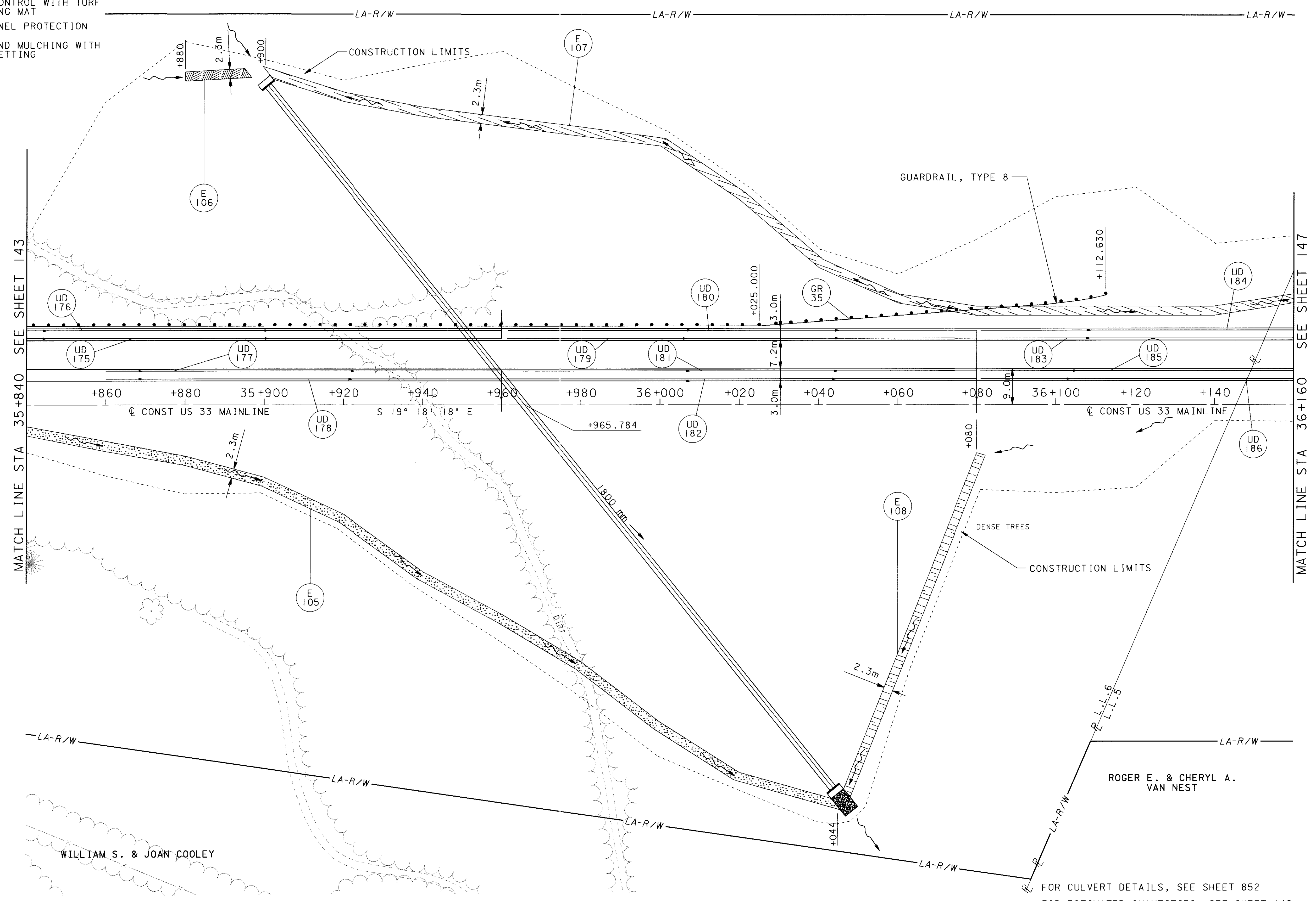
**ATH-33-30.981**

145  
956

WILLIAM S. & JOAN COOLEY

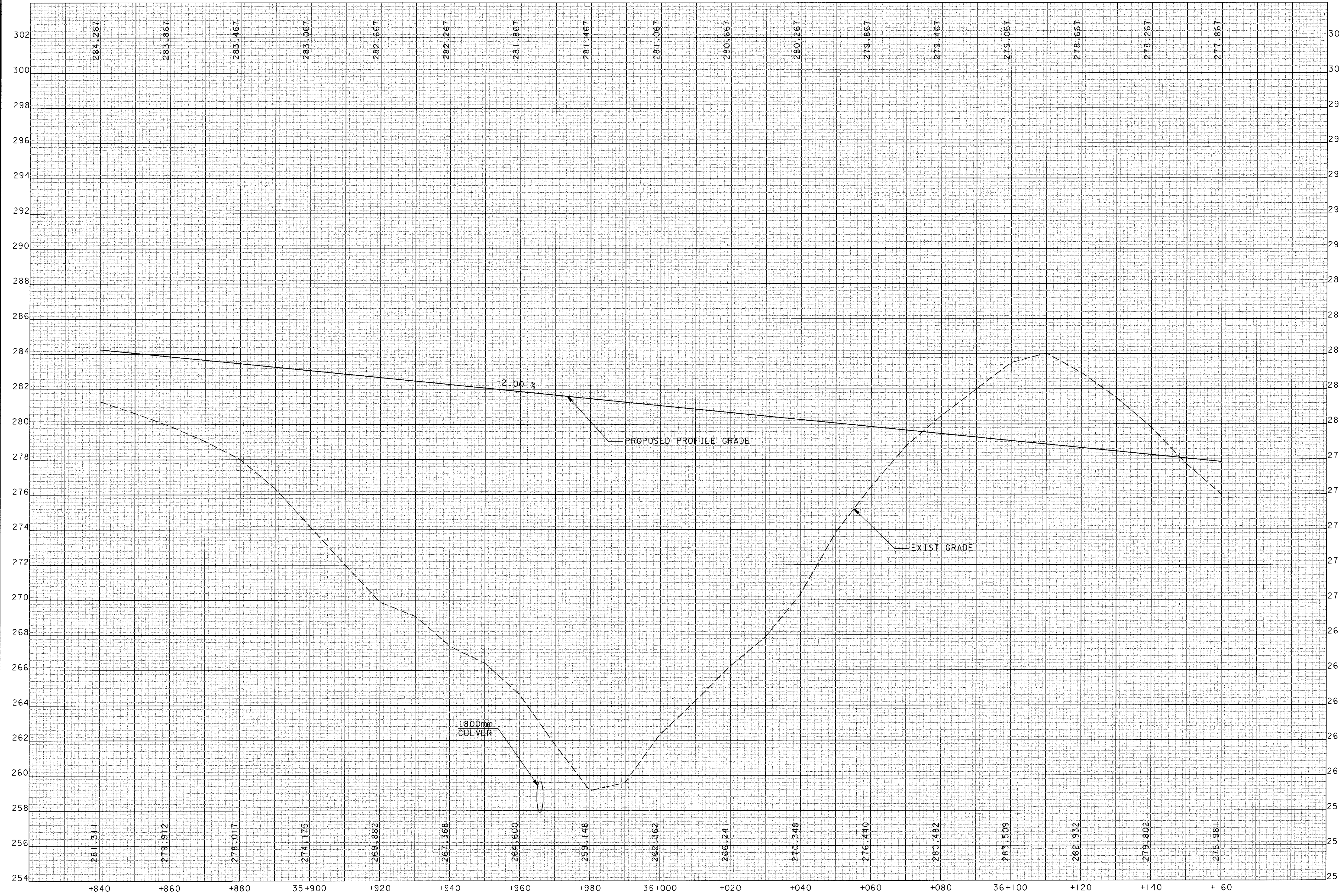
**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



FOR CULVERT DETAILS, SEE SHEET 852  
 FOR ESTIMATED QUANTITIES, SEE SHEET 149  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 436 AND 441  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

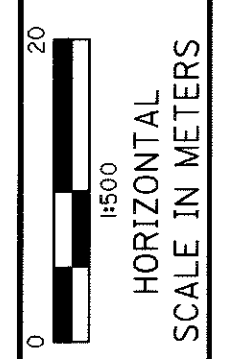
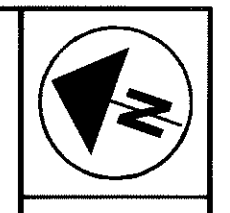
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c:\1828\ndoc\p\135\_20.dgn



CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33**  
**STA 35+840.000 TO STA 36+160.000**

**ATH-33-30.981**


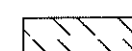

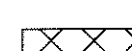


CALCULATED  
PRS  
CHECKED  
AM

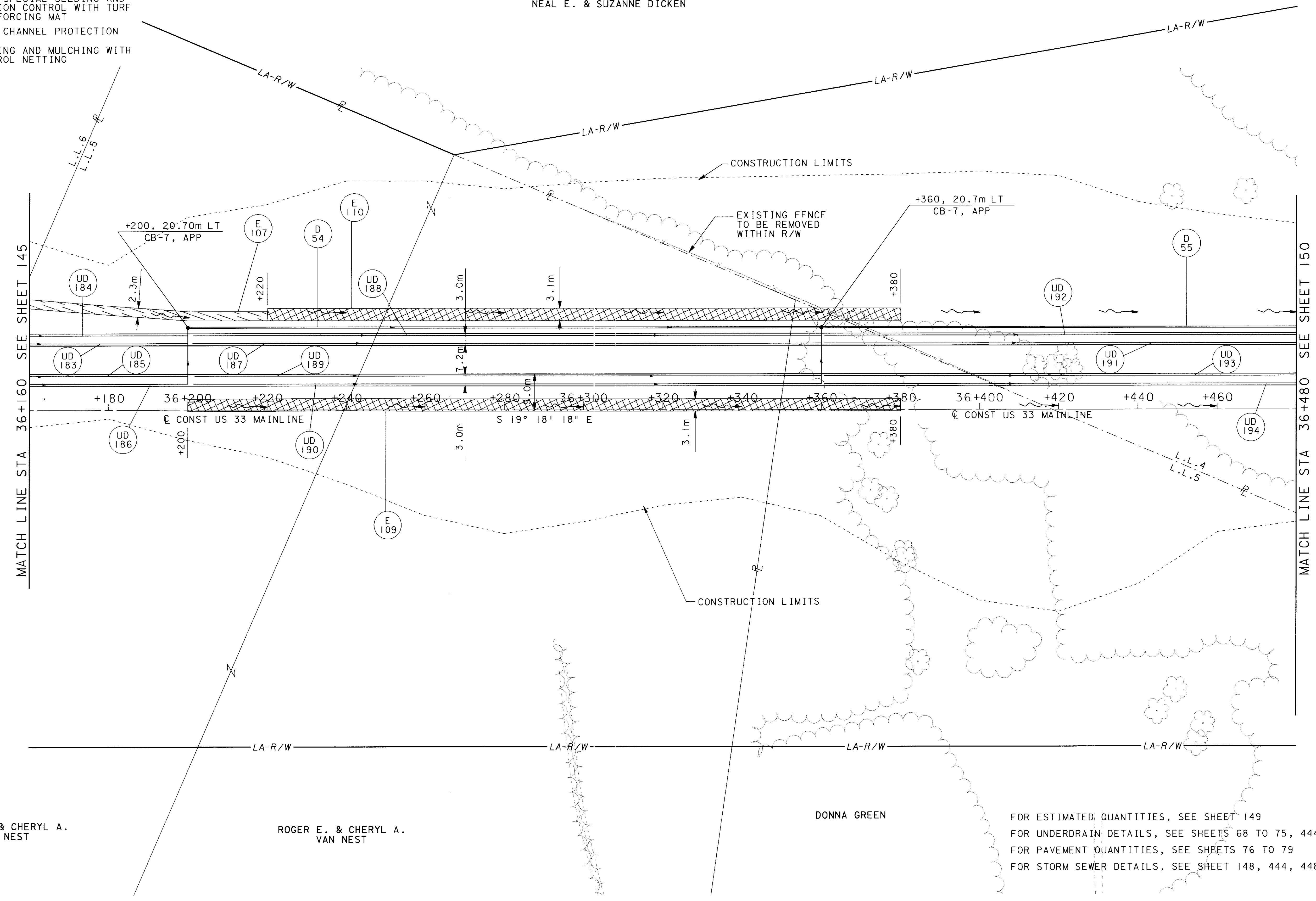
**US 33 MAINLINE PLAN  
STA 36+160 TO STA 36+480**

**ATH-33-30.981**

**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

NEAL E. & SUZANNE DICKEN



ROGER E. & CHERYL A. VAN NEST

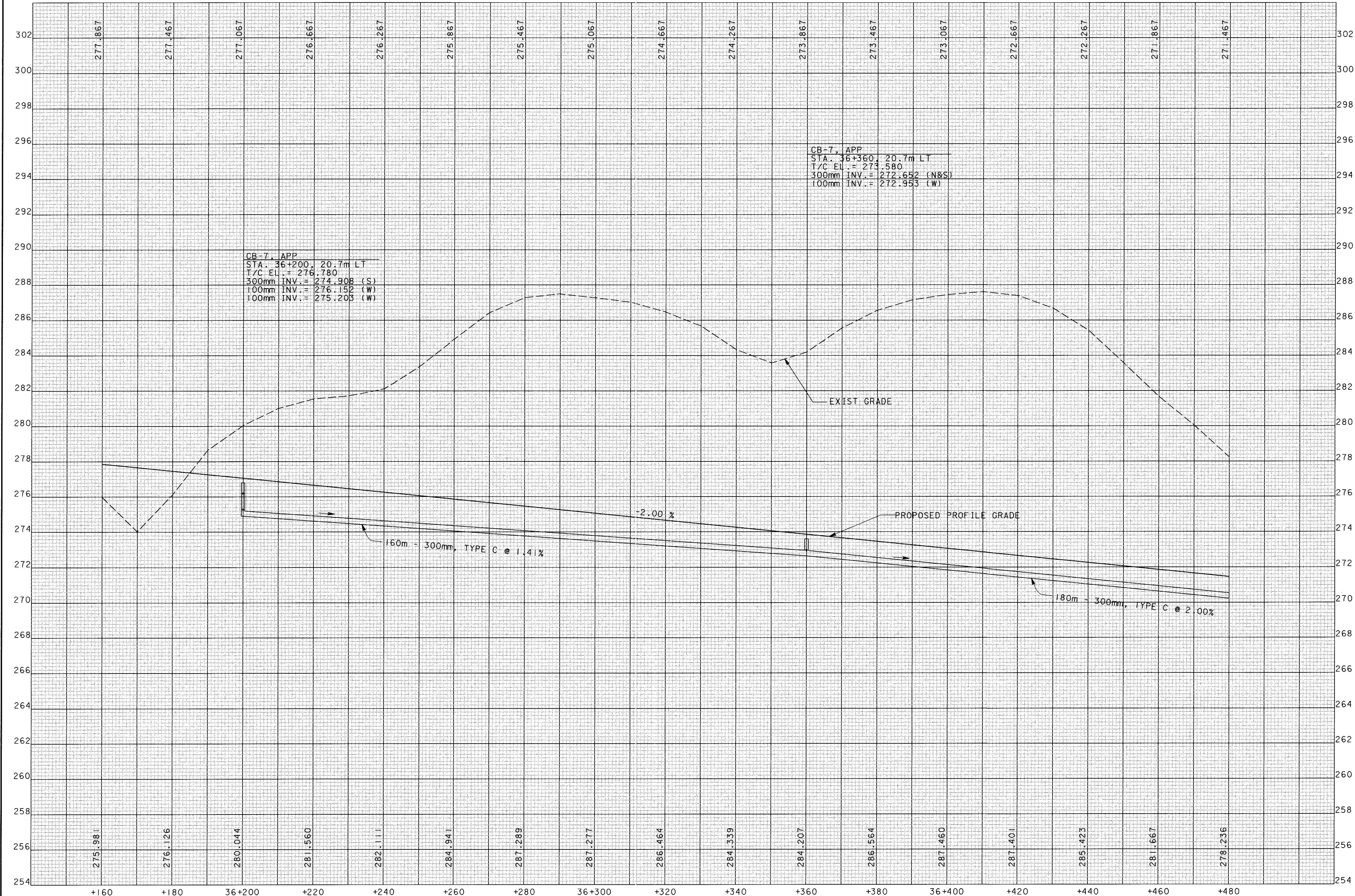
ROGER E. & CHERYL A. VAN NEST

DONNA GREEN

FOR ESTIMATED QUANTITIES, SEE SHEET 149  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 444 AND 448  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 148, 444, 448

04 FEB 2001 08:42:13  
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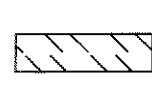
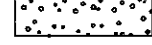

REF NO.	SHEET NO.	STATION		SIDE	448	601	603	604	606	606	606	606	626	670	672	SPECIAL	SPECIAL						
		FROM	TO		CU. METER	CU. METER	METER	EACH	METER	METER	EACH	EACH	EACH	EACH	SQ. METER	SQ. METER	SQ. METER	SQ. METER					
D54	147	36+200.000	36+360.000	LT			160	1															
D55	147	36+360.000	36+480.000	LT			120	1															
E104	143	35+520.000	35+600.000	LT												189.3							
E105	143, 145	35+820.000	36+044.000	RT		286.1																	
E106	145	35+880.000	35+900.000	LT										46.0									
E107	145, 147	35+900.000	36+220.000	LT												769.8							
E108	145	36+044.000	36+080.000	RT													214.1						
E109	147	36+200.000	36+380.000	RT												558.0							
E110	147	36+220.000	36+380.000	LT												496.0							
GR35	143, 145	35+765.920	36+112.630	LT	19.5				243.84	87.63	1	1	13										
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					19.5	286.1	280	2	243.84	87.63	1	1	13	46	1054	959.1	214.1						

**ESTIMATED QUANTITIES**  
**STA. 35+520 TO STA. 36+480**

**ATH-33-30.981**

CALCULATED  
 AML  
 CHECKED

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

NEAL E. SUZANNE DICKEN

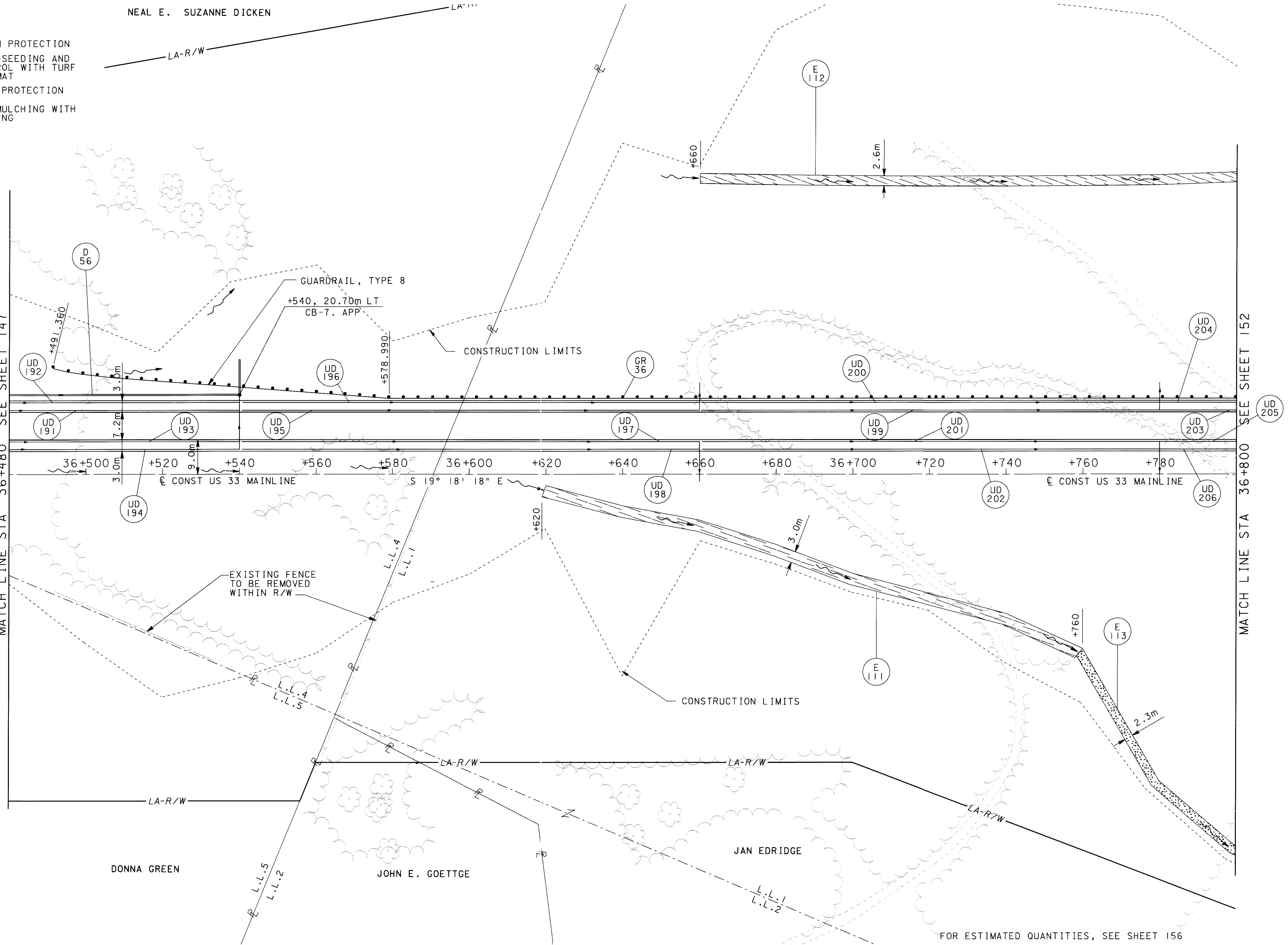


0 20 40 60 80 100  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

MATCH LINE STA 36+480 SEE SHEET 147

MATCH LINE STA 36+800 SEE SHEET 152

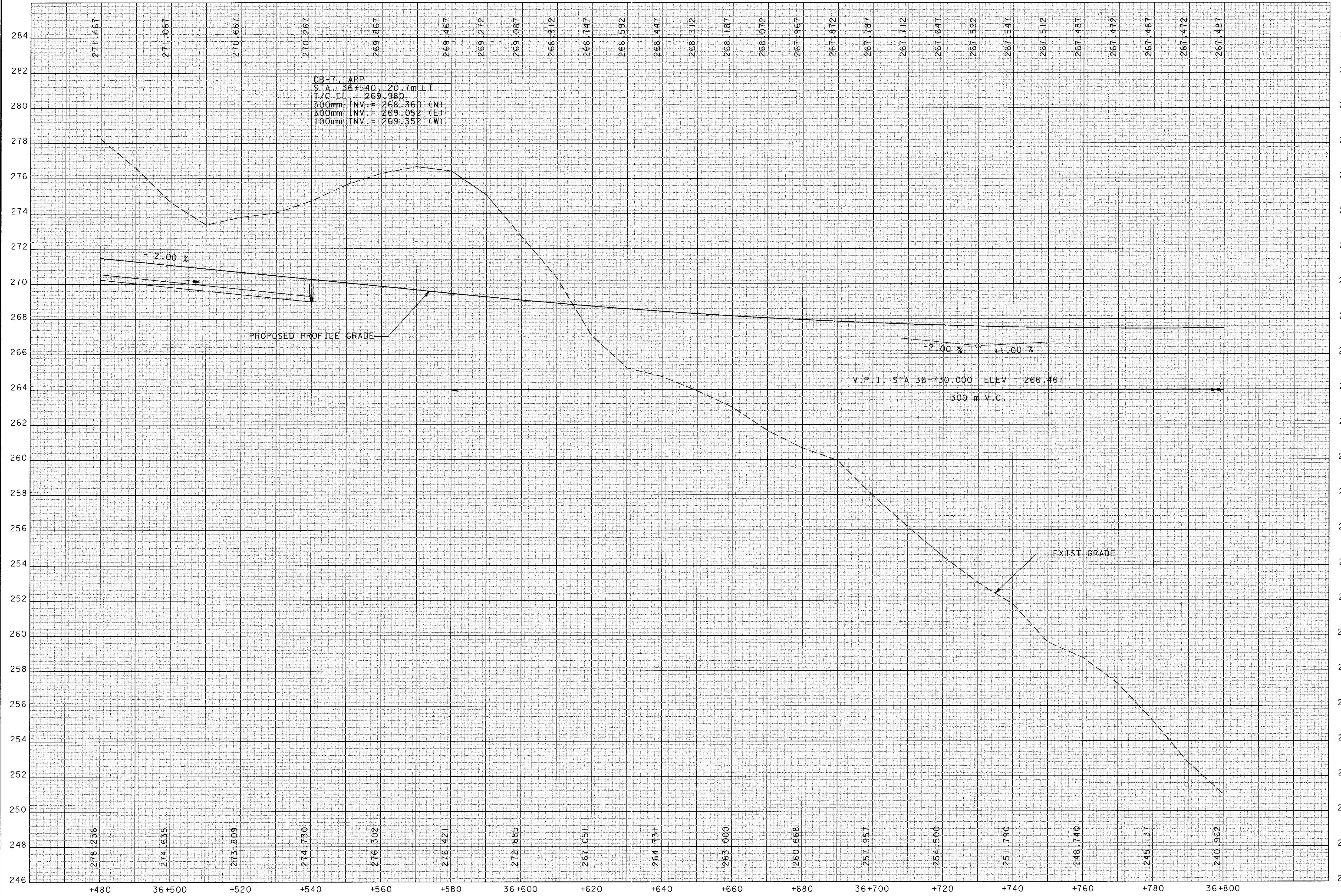


US 33 MAINLINE PLAN  
STA 36+480 TO STA 36+800

ATH-33-30.981

FOR ESTIMATED QUANTITIES, SEE SHEET 156  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 453, 458 AND 464  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 151 AND 453

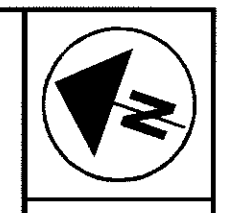
150  
956



CALCULATED  
 PRS  
 CHECKED  
 AM

**PROFILE - US 33**  
**STA 36+480.000 TO STA 36+800.000**

**ATH-33-30.981**



0 10 20  
HORIZONTAL  
SCALE IN METERS


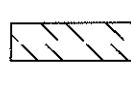
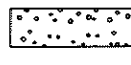
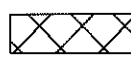
CALCULATED  
PRS  
CHECKED  
AM

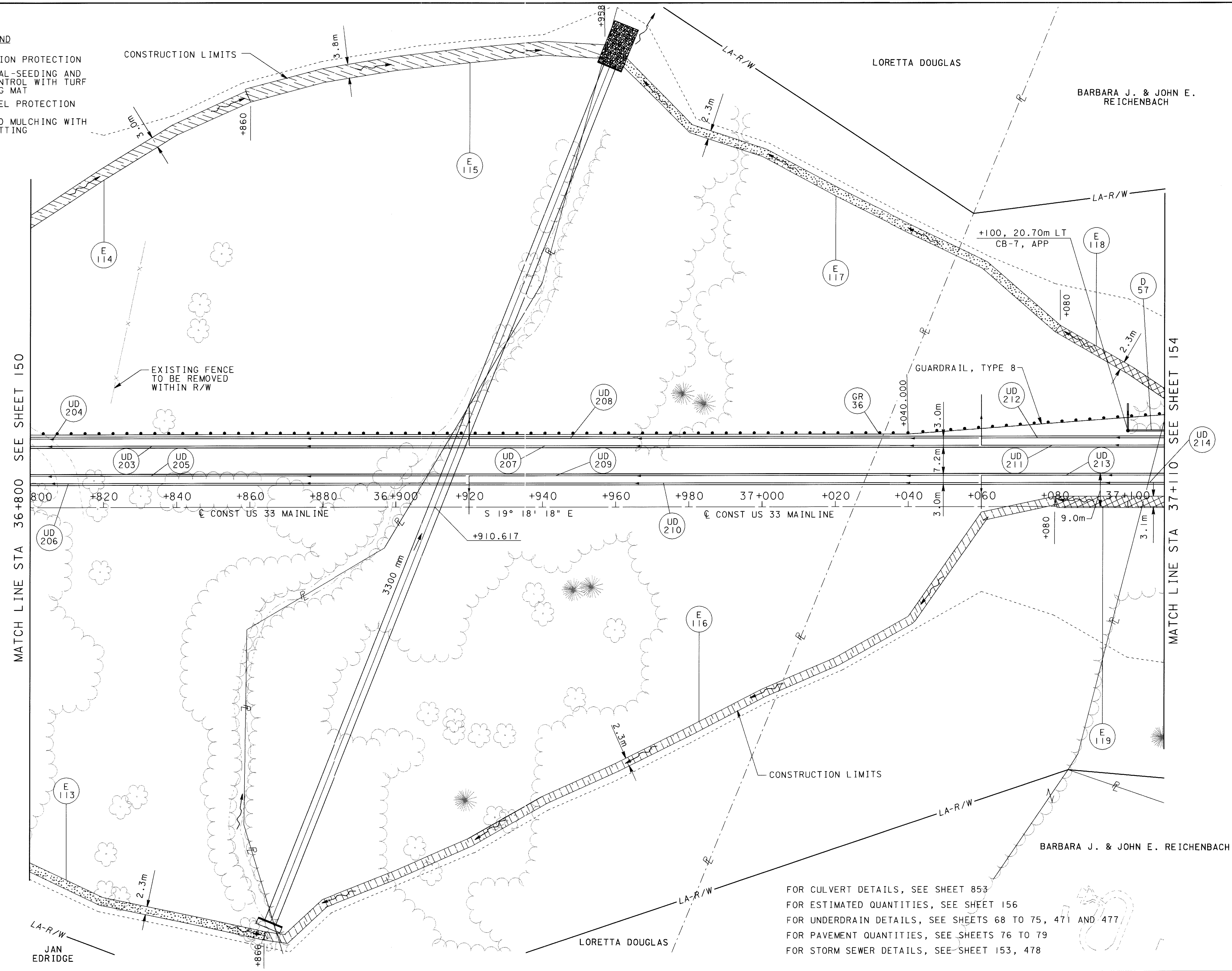
**US 33 MAINLINE PLAN  
STA 36+800 TO STA 37+110**

**ATH-33-30.981**

152  
956

**LEGEND**

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



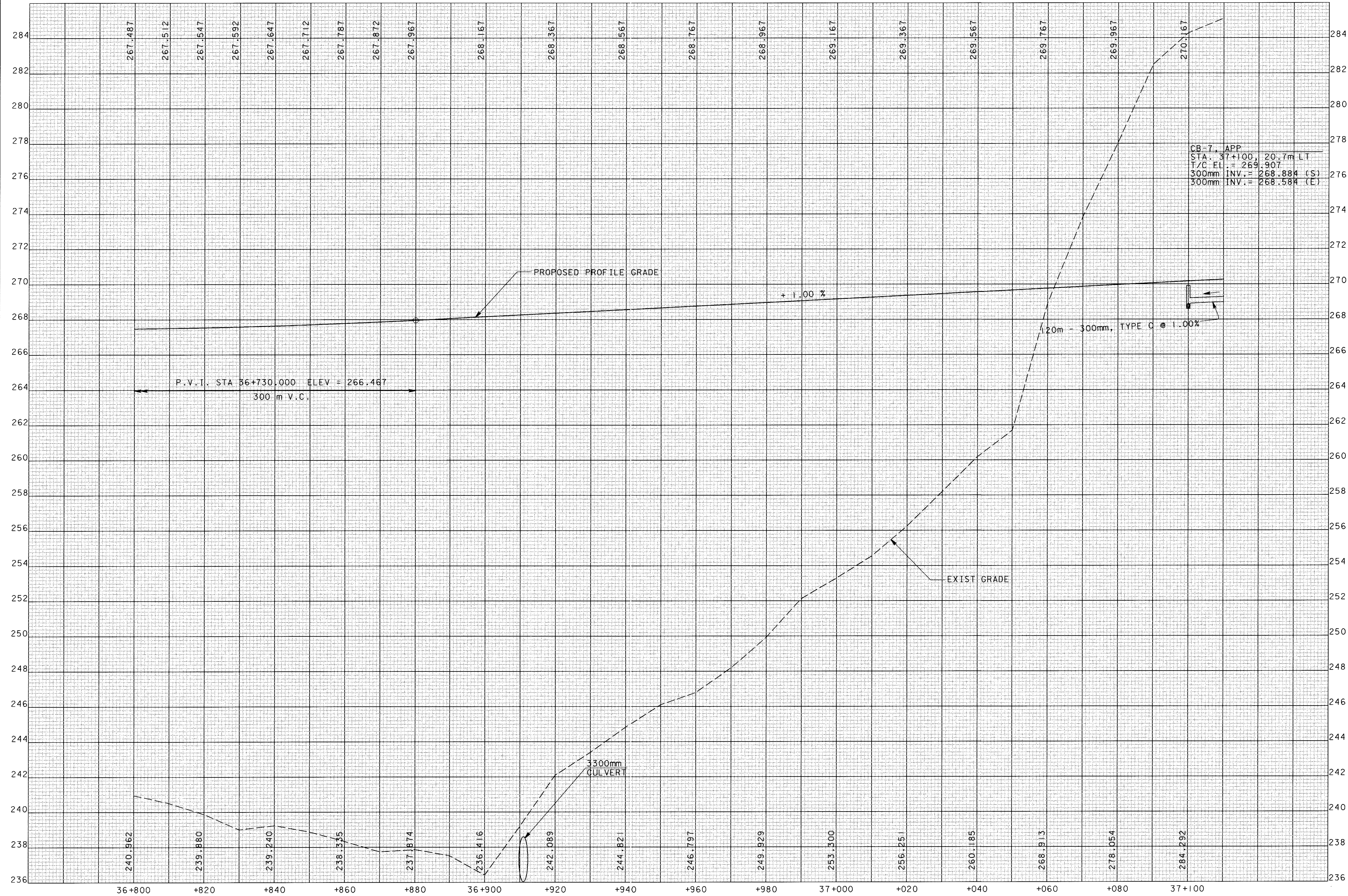
MATCH LINE STA 36+800 SEE SHEET 150

MATCH LINE STA 37+110 SEE SHEET 154

FOR CULVERT DETAILS, SEE SHEET 853  
 FOR ESTIMATED QUANTITIES, SEE SHEET 156  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 471 AND 477  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 153, 478

04 FEB 2001 08:49:20  
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JAN  
EDRIDGE


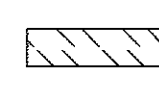




CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33**  
**STA 36+80.000 TO STA 37+110.000**

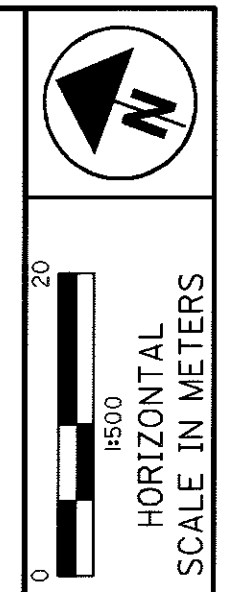
**ATH-33-30.981**

LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

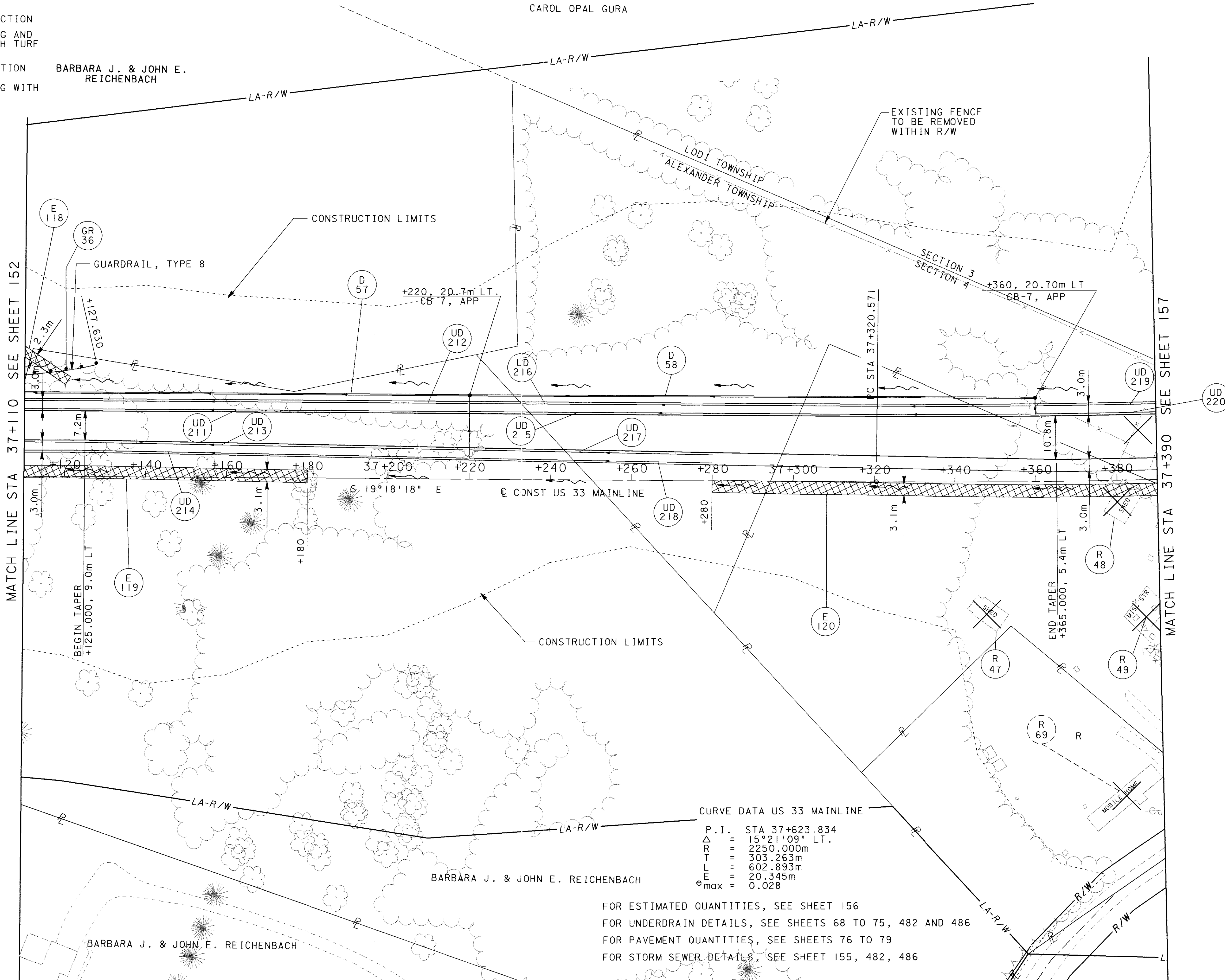
BARBARA J. & JOHN E. REICHENBACH

CAROL OPAL GURA



CALCULATED PRS  
CHECKED

US 33 MAINLINE PLAN  
STA 37+110 TO STA 37+390

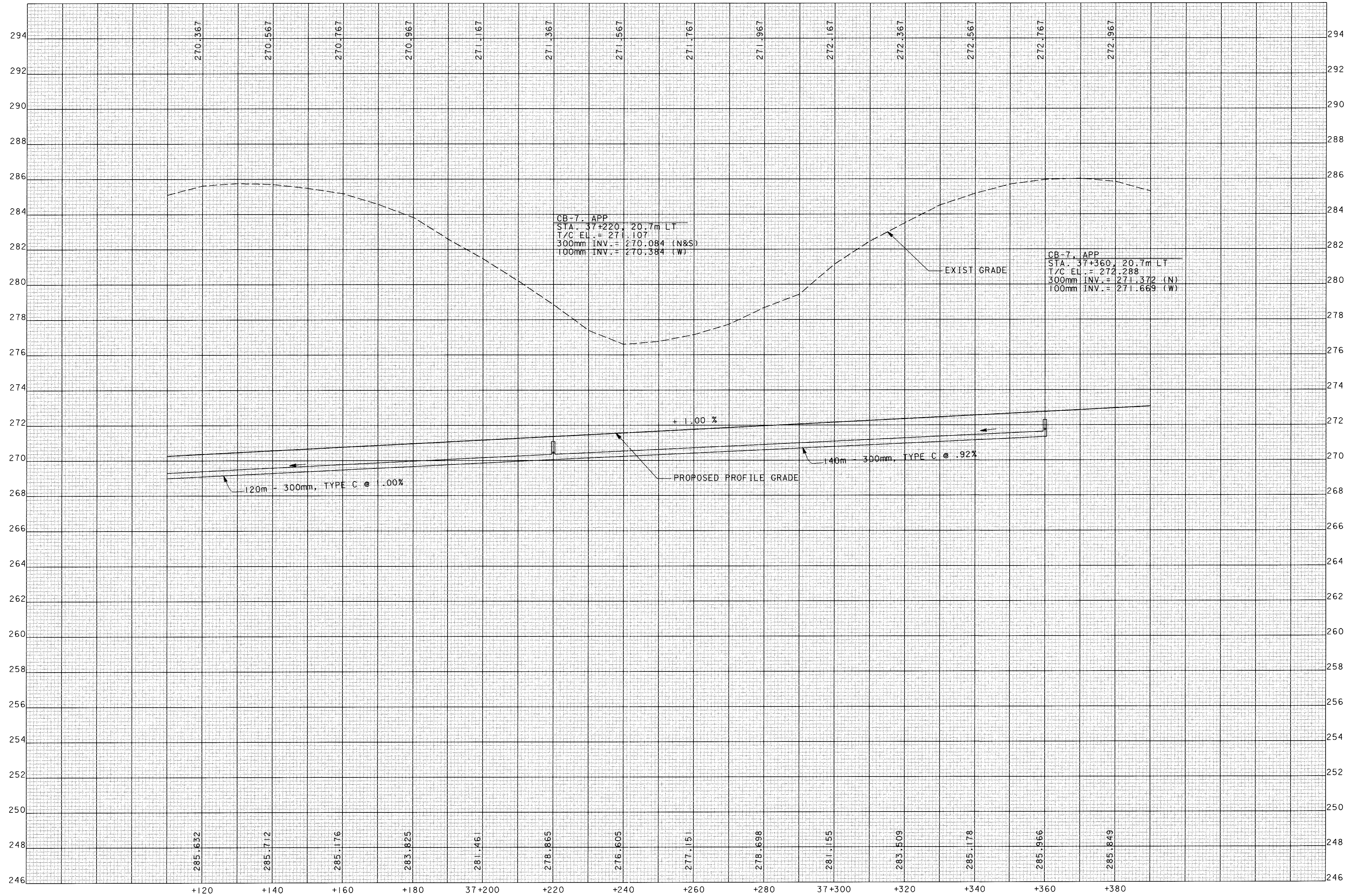


CURVE DATA US 33 MAINLINE

P.I. = STA 37+623.834  
 $\Delta$  = 15°21'09" LT.  
R = 2250.000m  
T = 303.263m  
L = 602.893m  
E = 20.345m  
 $e_{max}$  = 0.028

FOR ESTIMATED QUANTITIES, SEE SHEET 156  
FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 482 AND 486  
FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
FOR STORM SEWER DETAILS, SEE SHEET 155, 482, 486

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CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - US 33**  
**STA 37+110.000 TO STA 37+390.000**

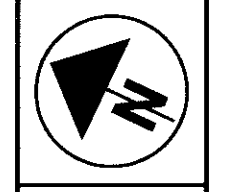
**ATH-33-30.981**



REF NO.	SHEET NO.	STATION		SIDE	ITEM DESCRIPTION														CALCULATED AML	CHECKED AM		
					202	448	601	603	604	606	606	606	626	672	SPECIAL	SPECIAL						
		BUILDING DEMOLISHED	50mm ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL)		ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER (DEPTH=0.5 M)	300mm CONDUIT, TYPE C	CATCH BASIN, NO. 7, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 8	POST END ANCHOR (OR CONCRETE BLOCK END ANCHOR)	BARRIER REFLECTORS, TYPE A2	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2								
FROM	TO	EACH	CU. METER	CU. METER	METER	EACH	METER	METER	EACH	EACH	SQ. METER	SQ. METER	SQ. METER									
D56	150	36+480.000	36+540.000	LT				69	1													
D57	152, 154	37+100.000	37+220.000	LT				127.2	1													
D58	154	37+220.000	37+360.000	LT				140	2													
E111	150	36+620.000	36+760.000	RT									440.0									
E112	150	36+660.000	36+800.000	LT									364.0									
E113	150, 152	36+760.000	36+866.000	RT			153.8															
E114	152	36+800.000	36+860.000	LT													207.9					
E115	152	36+860.000	36+958.000	LT													382.3					
E116	152	36+866.000	37+080.000	RT													580.5					
E117	152	36+958.000	37+080.000	LT			158.0															
E118	152, 154	37+080.000	37+120.000	LT									108.6									
E119	152, 154	37+080.000	37+180.000	RT									310.0									
E120	154	37+280.000	37+390.000	RT									341.0									
GR36	150, 152, 154	36+491.360	37+127.630	LT		34.6				461.01	175.26	2	22									
R47	154	37+350.000		RT	1																	
R48	154	37+380.000		RT	1																	
R49	154	37+385.000		RT	1																	
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					3	34.6	311.8	336.2	4	461.01	175.26	2	22	759.6	804	1170.7						

**ESTIMATED QUANTITIES**  
**STA. 36+480 TO STA. 37+390**

**ATH-33-30.981**



0 1500 20  
HORIZONTAL  
SCALE IN METERS

CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 37+390 TO STA 37+690**

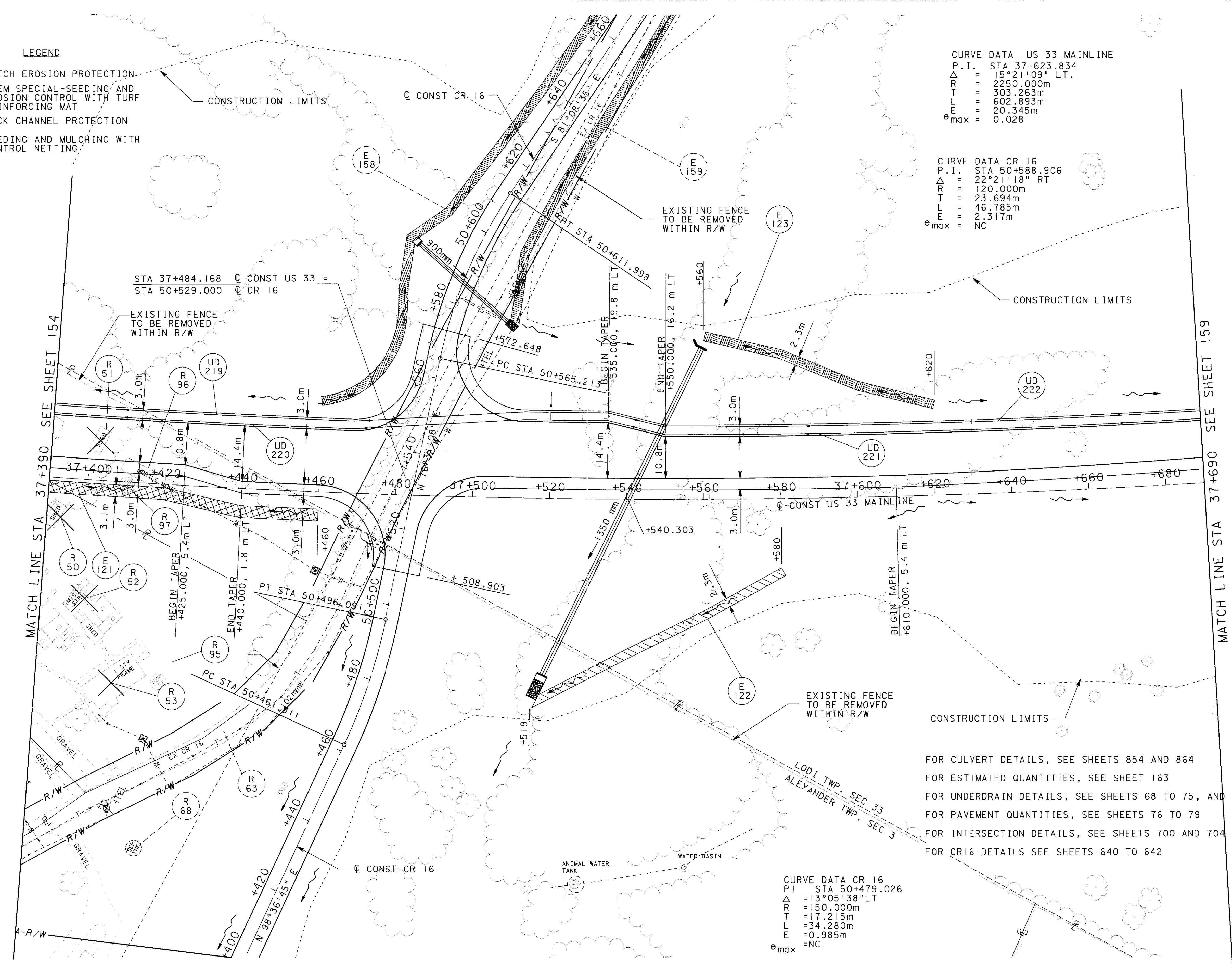
**ATH-33-30.981**

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING

**CURVE DATA US 33 MAINLINE**  
 P.I. STA 37+623.834  
 $\Delta = 15^{\circ}21'09''$  LT.  
 $R = 2250.000$ m  
 $T = 303.263$ m  
 $L = 602.893$ m  
 $E = 20.345$ m  
 $e_{max} = 0.028$

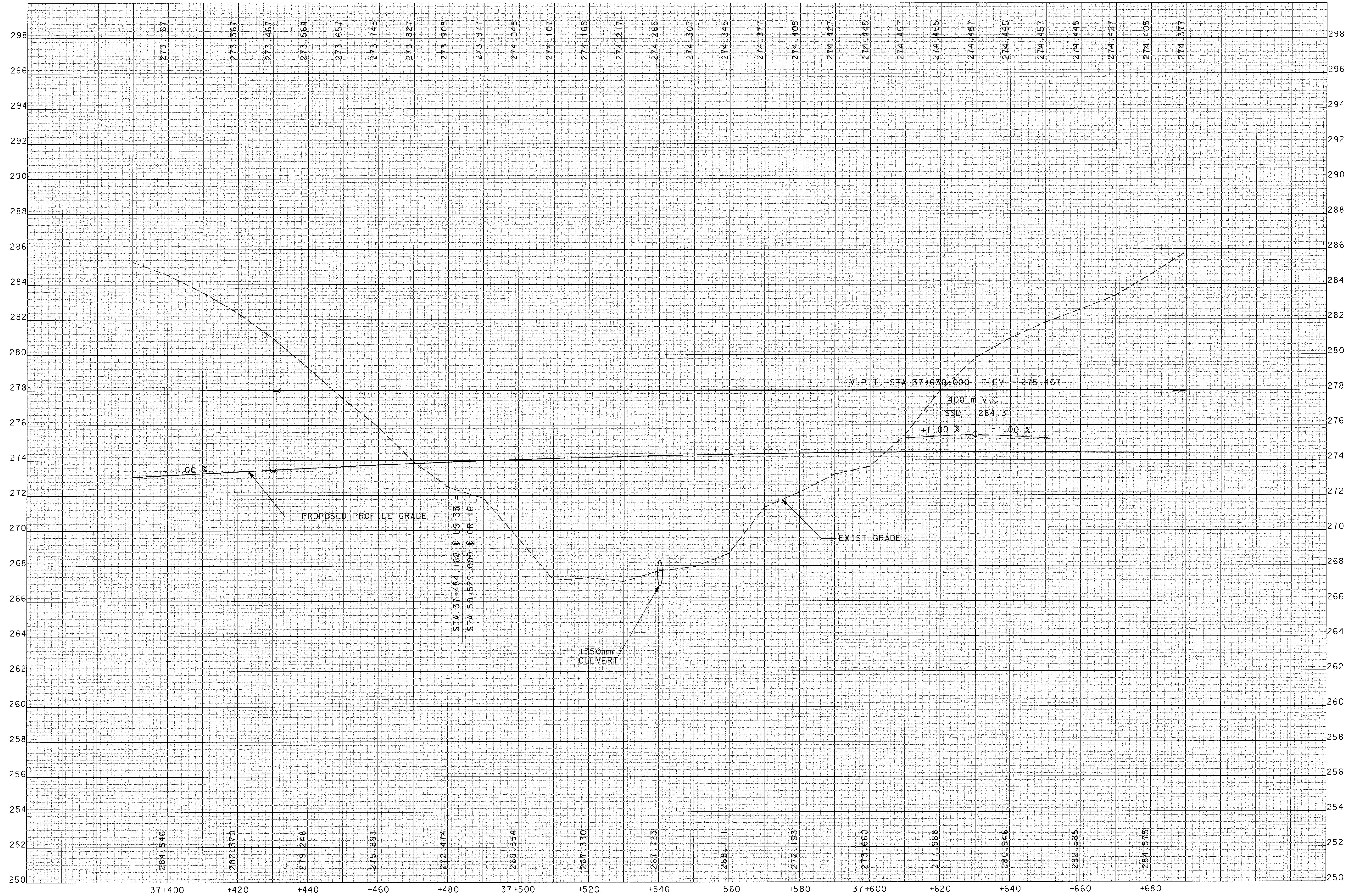
**CURVE DATA CR 16**  
 P.I. STA 50+588.906  
 $\Delta = 22^{\circ}21'18''$  RT  
 $R = 120.000$ m  
 $T = 23.694$ m  
 $L = 46.785$ m  
 $E = 2.317$ m  
 $e_{max} = NC$

**CURVE DATA CR 16**  
 P.I. STA 50+479.026  
 $\Delta = 13^{\circ}05'38''$  LT  
 $R = 150.000$ m  
 $T = 17.215$ m  
 $L = 34.280$ m  
 $E = 0.985$ m  
 $e_{max} = NC$



FOR CULVERT DETAILS, SEE SHEETS 854 AND 864  
 FOR ESTIMATED QUANTITIES, SEE SHEET 163  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, AND 490  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR INTERSECTION DETAILS, SEE SHEETS 700 AND 704  
 FOR CR16 DETAILS SEE SHEETS 640 TO 642

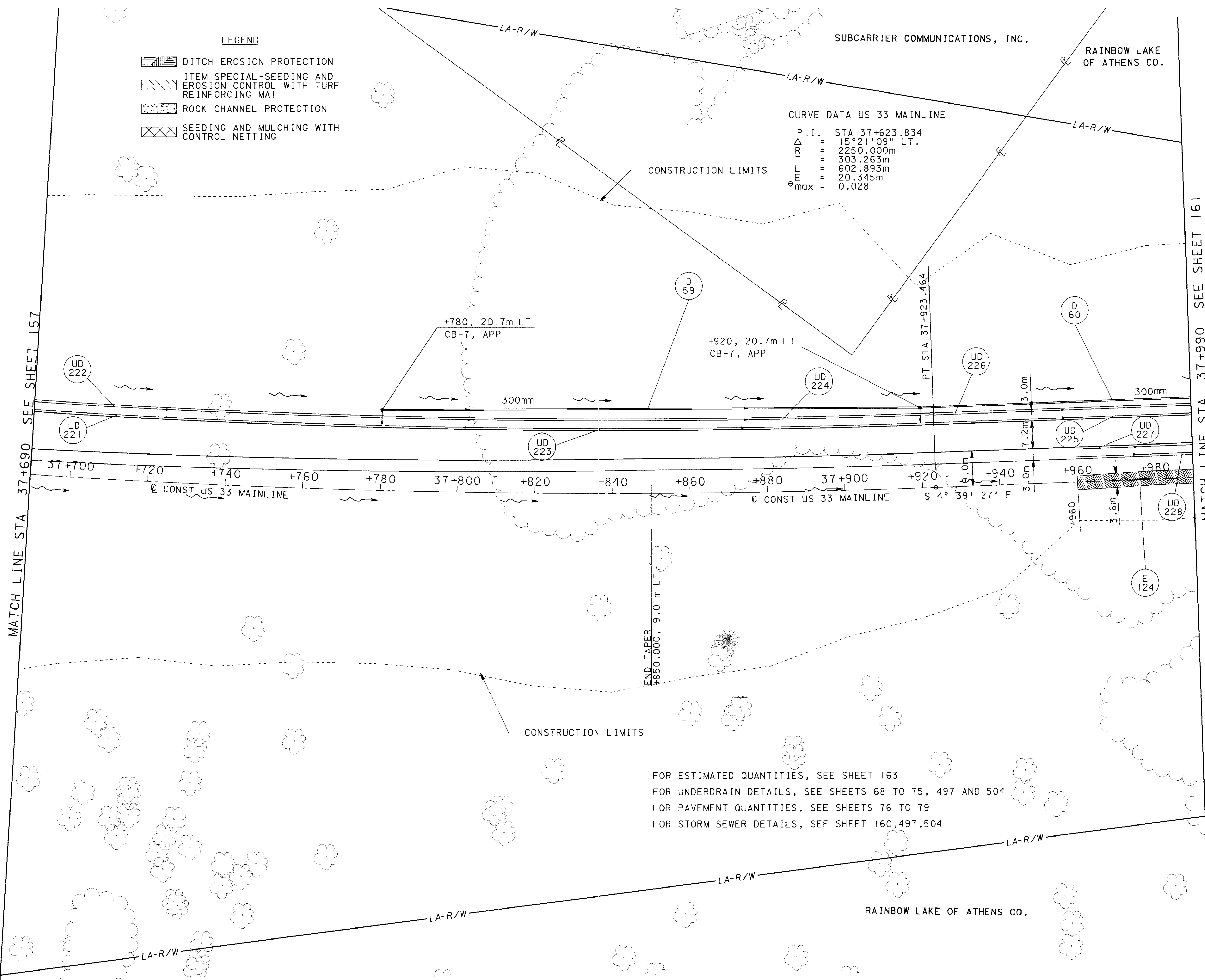
RHONDA K. BURNSIDE



CALCULATED  
 PRS  
 CHECKED  
 AM

**PROFILE - US 33**  
**STA 37+390.000 TO STA 37+690.000**

**ATH-33-30.981**



LEGEND

- DITCH EROSION PROTECTION
- ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
- ROCK CHANNEL PROTECTION
- SEEDING AND MULCHING WITH CONTROL NETTING

SUBCARRIER COMMUNICATIONS, INC.

RAINBOW LAKE OF ATHENS CO.

CURVE DATA US 33 MAINLINE

P. I. STA 37+623.834  
 $\Delta$  = 15°21'09" LT.  
 R = 2250.000m  
 T = 303.263m  
 L = 602.893m  
 E = 20.345m  
 $e_{max}$  = 0.028

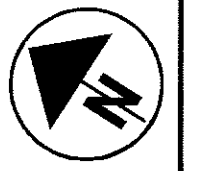
CONSTRUCTION LIMITS

MATCH LINE STA 37+690 SEE SHEET 157

MATCH LINE STA 37+990 SEE SHEET 161

FOR ESTIMATED QUANTITIES, SEE SHEET 163  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 497 AND 504  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 160,497,504

RAINBOW LAKE OF ATHENS CO.

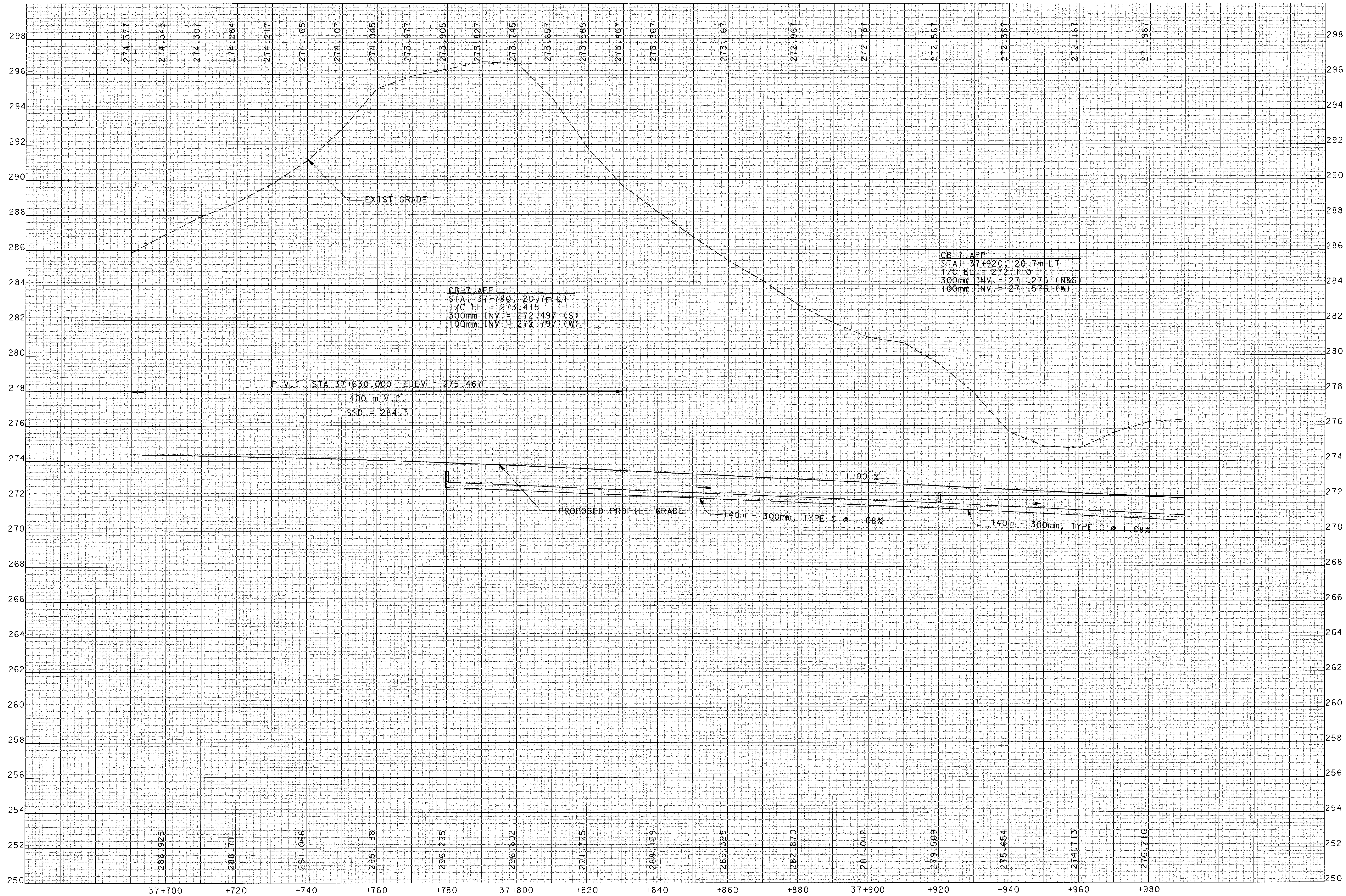


0 20  
 1:800  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 PRS  
 CHECKED  
 AM

**US 33 MAINLINE PLAN  
 STA 37+690 TO STA 37+990**

**ATH-33-30.981**



CB-7 APP  
 STA. 37+920, 20.7m LT  
 T/C EL. = 272.110  
 300mm INV. = 271.275 (N&S)  
 100mm INV. = 271.575 (W)

CB-7 APP  
 STA. 37+780, 20.7m LT  
 T/C EL. = 273.415  
 300mm INV. = 272.497 (S)  
 100mm INV. = 272.797 (W)

P.V.I. STA 37+630.000 ELEV = 275.467

400 m V.C.  
 SSD = 284.3

PROPOSED PROFILE GRADE

140m - 300mm, TYPE C @ 1.08%

140m - 300mm, TYPE C @ 1.08%


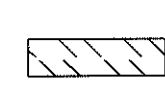
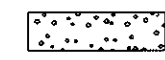
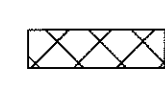
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 PRS  
 CHECKED  
 AM

PROFILE - US 33  
 STA 37+690.000 TO STA 37+990.000

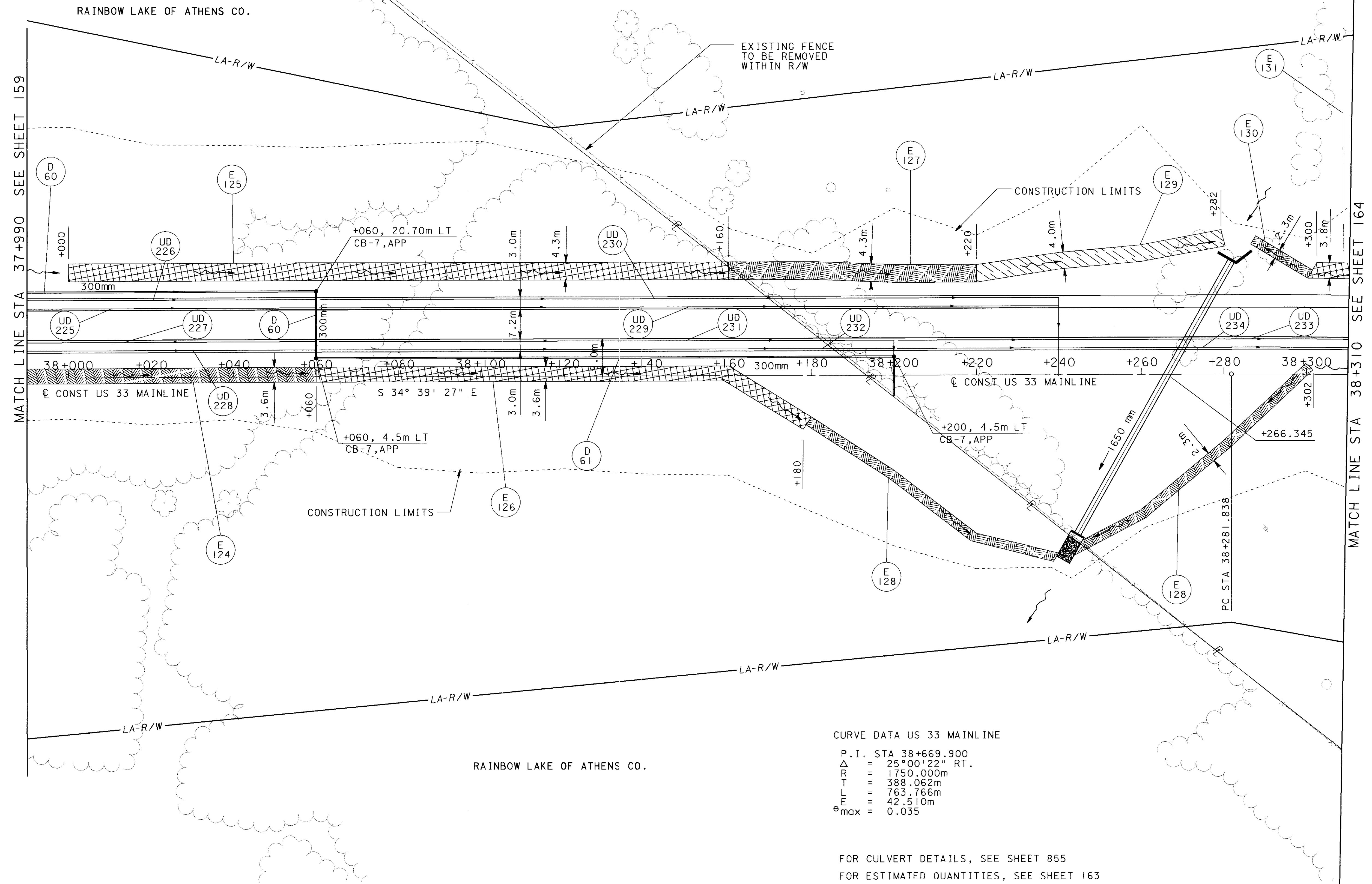
ATH-33-30.981

160  
 956

LEGEND

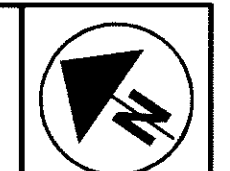
-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

ERNEST & SHIRLEY KYLE



P.I. STA 38+669.900  
 $\Delta$  = 25°00'22" RT.  
 R = 1750.000m  
 T = 388.062m  
 L = 763.766m  
 E = 42.510m  
 $e_{max}$  = 0.035

FOR CULVERT DETAILS, SEE SHEET 855  
 FOR ESTIMATED QUANTITIES, SEE SHEET 163  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 507, 511, AND 512  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 162, 507, AND 511



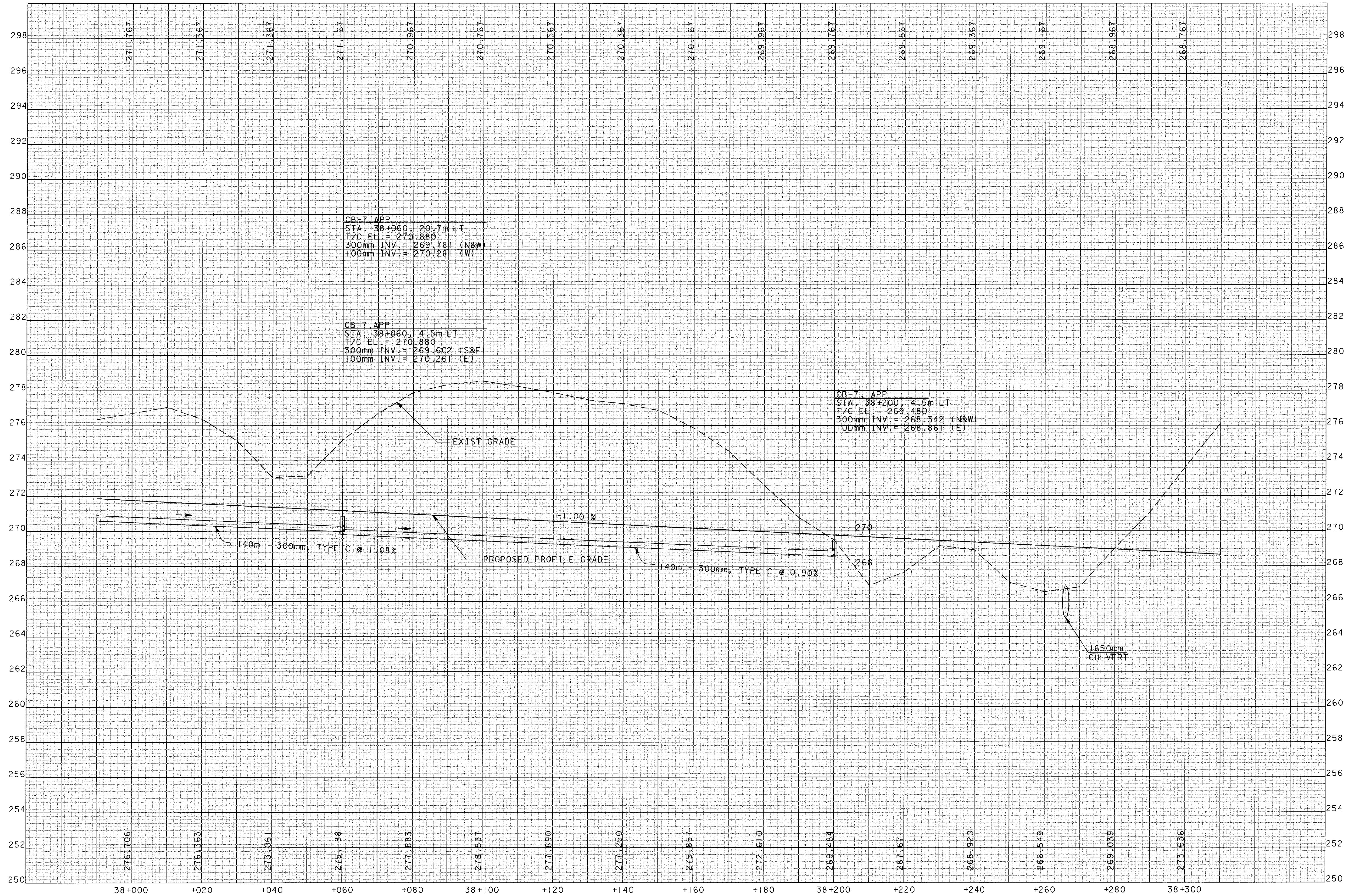
0 20  
 1:6000  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED  
 PRS  
 CHECKED  
 AM

US 33 MAINLINE PLAN  
 STA 37+990 TO STA 38+310

ATH-33-30.981

04 FEB 2001 09:09:20  
 G:\8281\docs\gpl\33\_21.dgn



CALCULATED  
PRS  
CHECKED  
AM

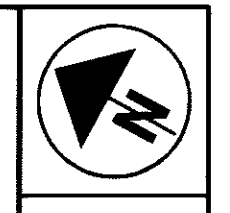
PROFILE - US 33  
STA 37+990.000 TO STA 38+310.000

ATH-33-30.981

REF NO.	SHEET NO.	STATION		SIDE	202	202	603	603	604	670	672	SPECIAL								
		FROM	TO		BUILDING DEMOLISHED	SEPTIC TANK REMOVED	300mm CONDUIT, TYPE C	300mm CONDUIT, TYPE B	CATCH BASIN, NO. 7, AS PER PLAN	DITCH EROSION PROTECTION	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE I								
					EACH	EACH	METER	METER	EACH	SQ. METER	SQ. METER	SQ. METER								
D59	159	37+780.000	37+920.000	LT			140.0		1											
D60	159, 161	37+920.000	38+060.000	LT			140.0	15.9	2											
D61	161	38+060.000	38+200.000	LT			151.0		2											
E121	157	37+390.000	37+460.000	RT							218.0									
E122	157	37+519.000	37+580.000	RT								168.0								
E123	157	37+560.000	37+620.000	LT						143.0										
E124	159, 161	37+960.000	38+060.000	RT						360.0										
E125	161	38+000.000	38+160.000	LT							688.0									
E126	161	38+060.000	38+180.000	RT							432.0									
E127	161	38+160.000	38+220.000	LT						258.0										
E128	161	38+180.000	38+302.000	RT						329.0										
E129	161	38+220.000	38+282.000	LT								244.0								
E130	161	38+282.000	38+300.000	LT						37.0										
E131	161	38+300.000	38+310.000	LT							38.0									
R50	157	37+392.000		RT	1															
R51	157	37+400.000		LT	1															
R52	157	37+400.000		RT	1															
R53	157	37+410.000		RT	1															
R95	157	37+420		RT		1														
R96	157	37+415		CL	1															
R97	157	37+410		CL		1														
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					5	2	431.0	15.9	5	1127.0	1376	412.0								

CALCULATED AML	<b>ESTIMATED QUANTITIES STA. 37+390 TO STA. 38+310</b>	CHECKED AM
ATH-33-30.981		
163		956





20  
1:500  
HORIZONTAL  
SCALE IN METERS

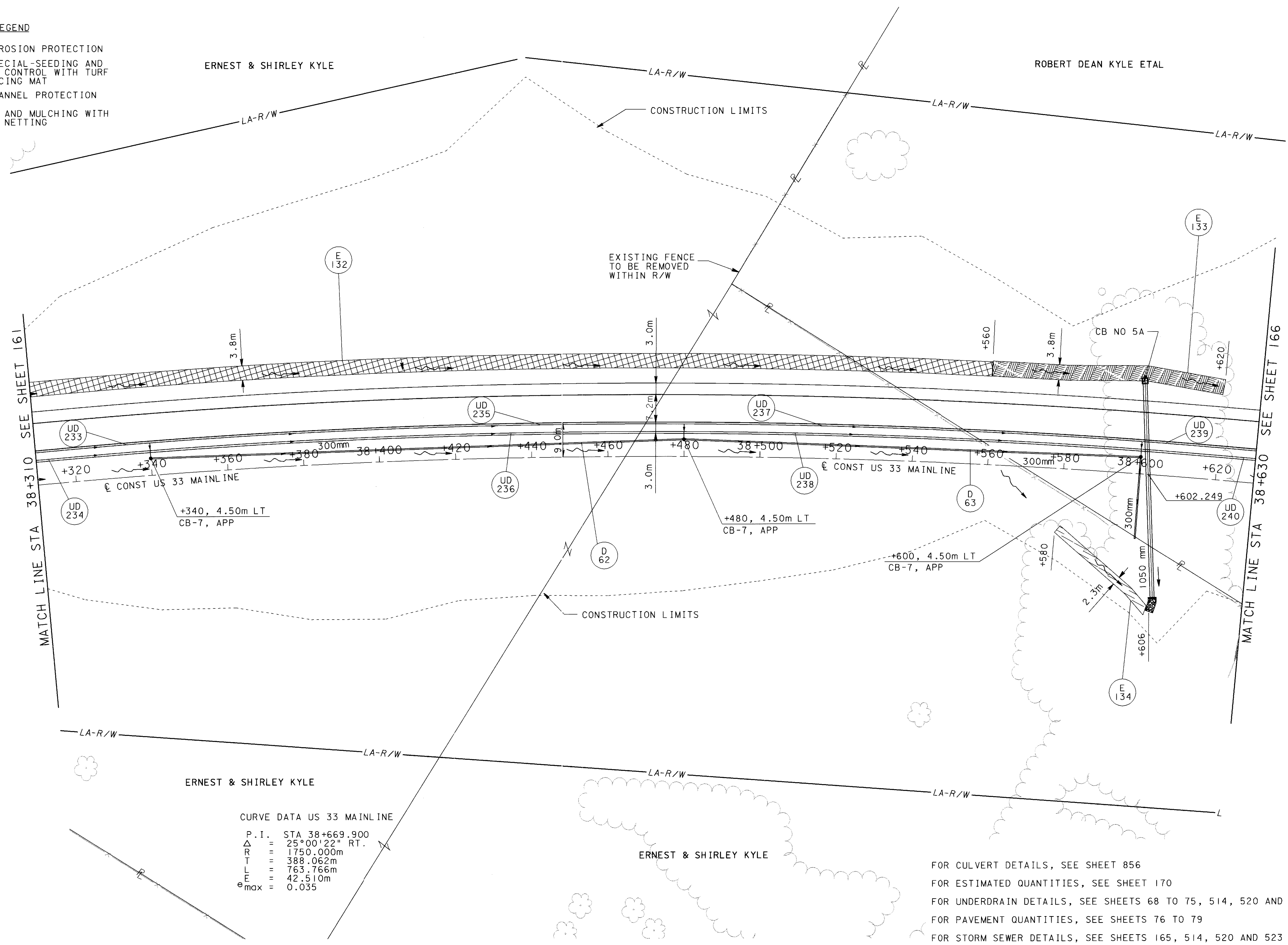
CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 38+310 TO STA 38+630**

**ATH-33-30.981**

164  
956

- LEGEND**
- DITCH EROSION PROTECTION
  - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
  - ROCK CHANNEL PROTECTION
  - SEEDING AND MULCHING WITH CONTROL NETTING

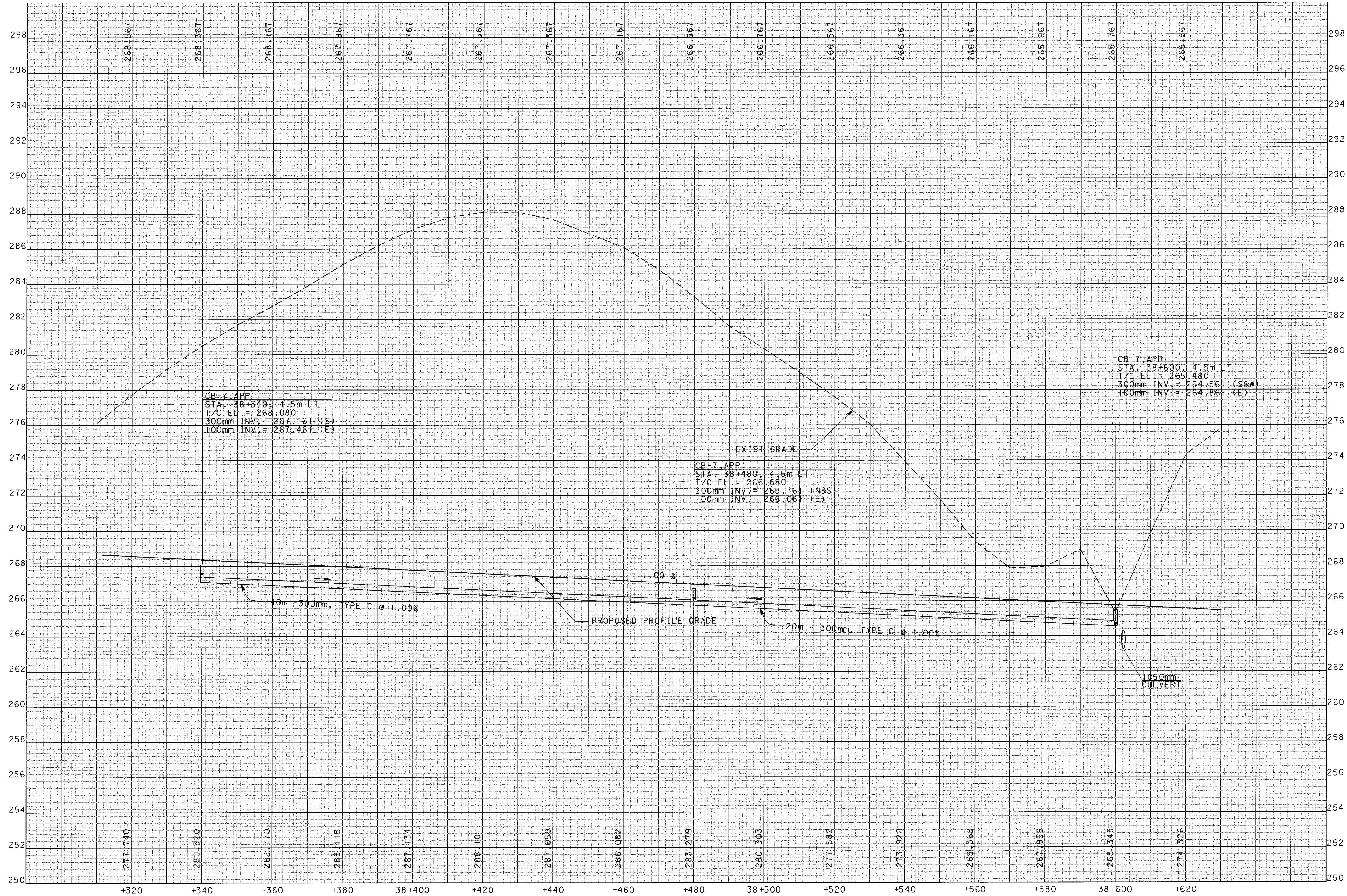


**CURVE DATA US 33 MAINLINE**

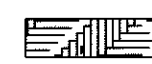
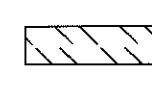

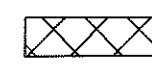
P.I. = STA 38+669.900  
 $\Delta$  = 25°00'22" RT.  
 R = 1750.000m  
 T = 388.062m  
 L = 763.766m  
 E = 42.510m  
 e<sub>max</sub> = 0.035

FOR CULVERT DETAILS, SEE SHEET 856  
 FOR ESTIMATED QUANTITIES, SEE SHEET 170  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 514, 520 AND 523  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEETS 165, 514, 520 AND 523

04 FEB 2001 09:45:54  
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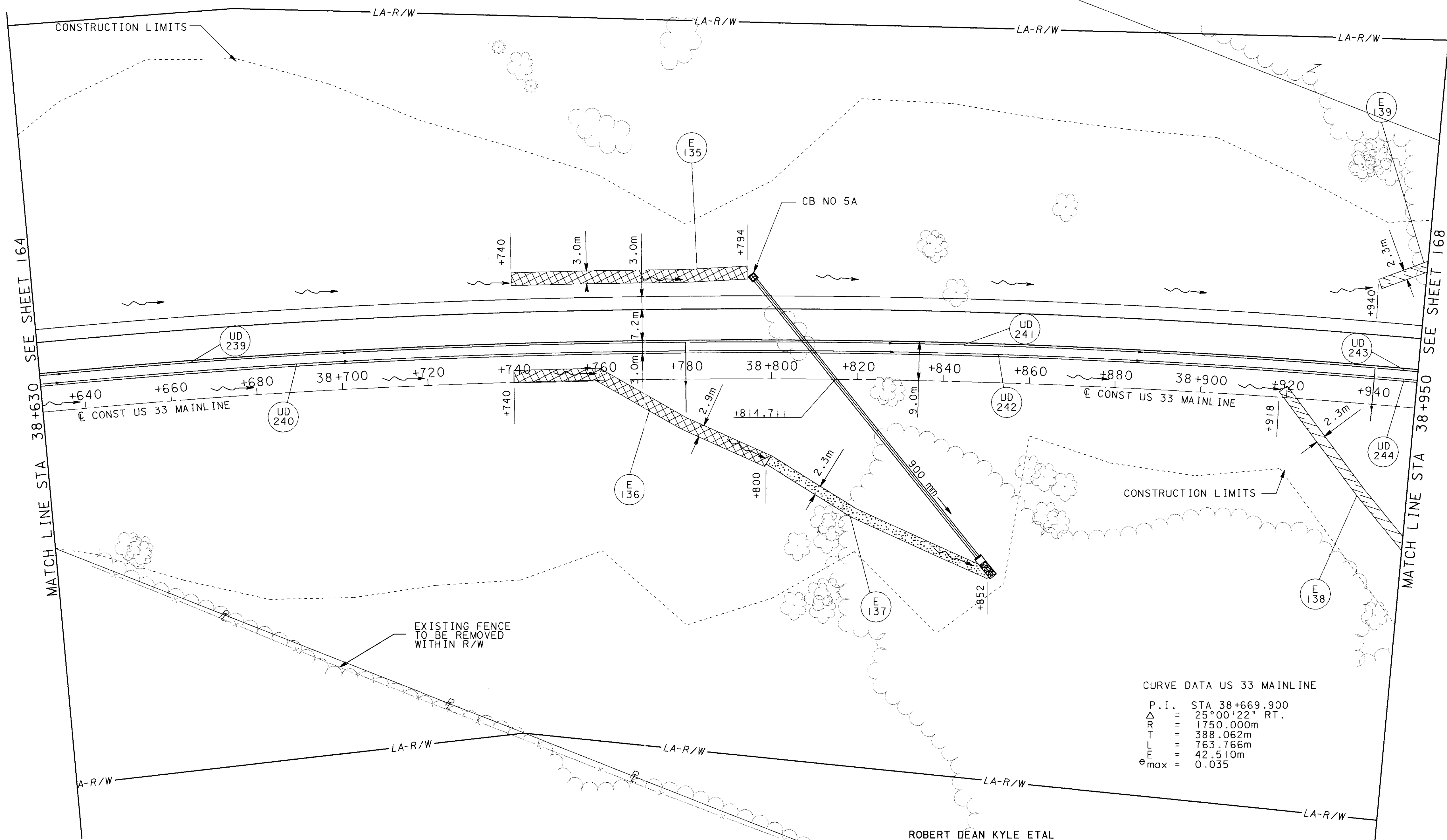


LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

ROBERT DEAN KYLE ETAL

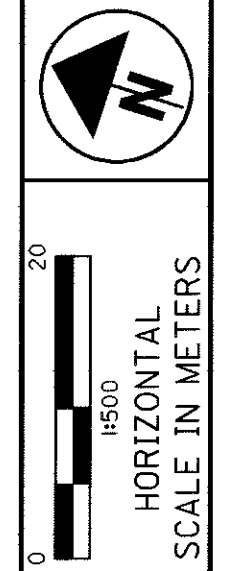
ROBERT DEAN KYLE ETAL



CURVE DATA US 33 MAINLINE

P.I.	STA 38+669.900
$\Delta$	25°00'22" RT.
R	1750.000m
T	388.062m
L	763.766m
E	42.510m
$e_{max}$	0.035

FOR CULVERT DETAILS, SEE SHEET 857  
 FOR ESTIMATED QUANTITIES, SEE SHEET 170  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 528, AND 532  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

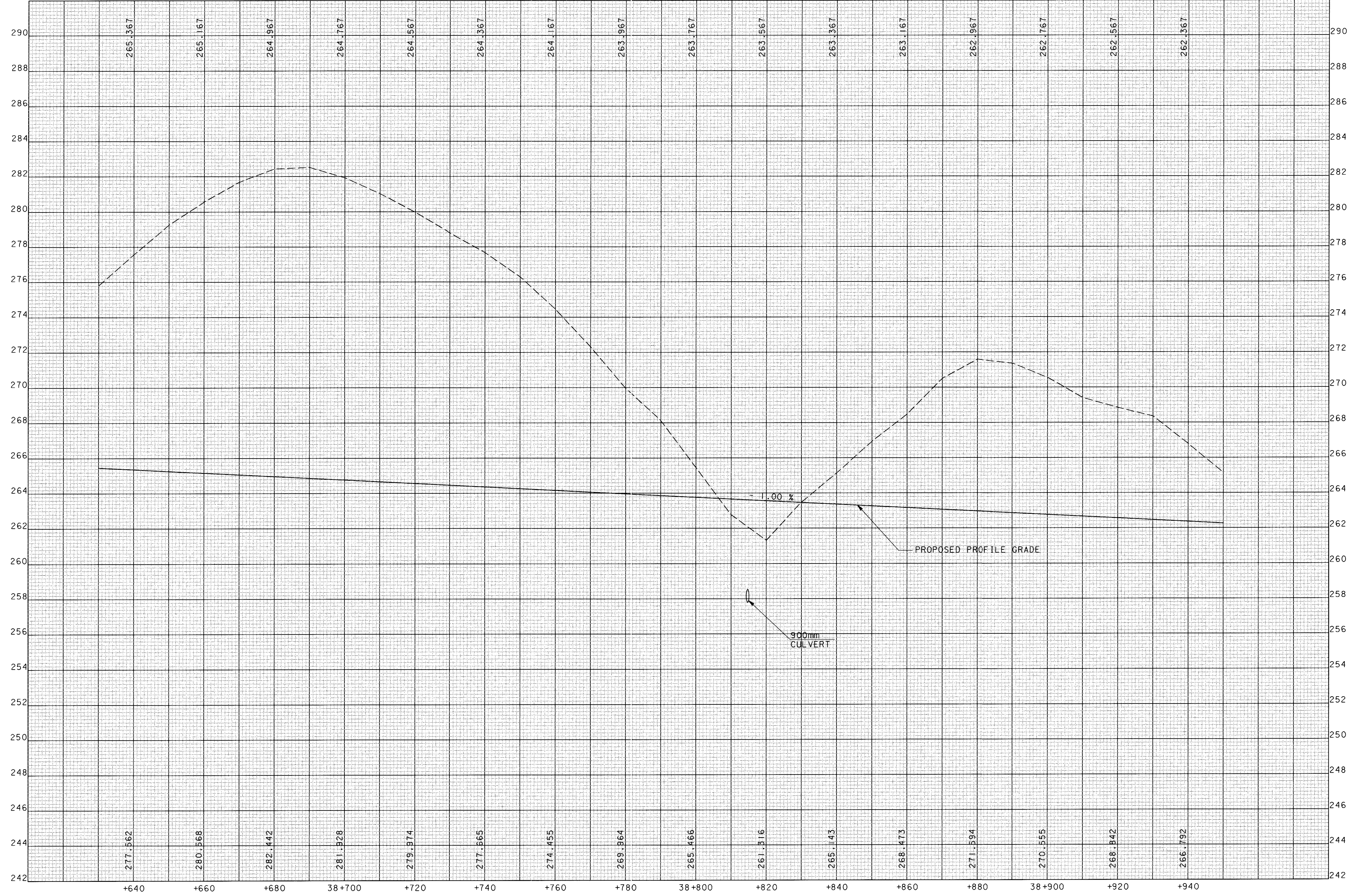


CALCULATED  
 PRS  
 CHECKED  
 AM

US 33 MAINLINE PLAN  
 STA 38+630 TO STA 38+950

ATH-33-30.981


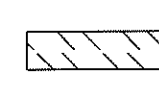

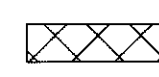
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CALCULATED  
PRS  
CHECKED  
AM

**ATH-33-30.981**  
**PROFILE - US 33**  
**STA 38+630.000 TO STA 38+950.000**

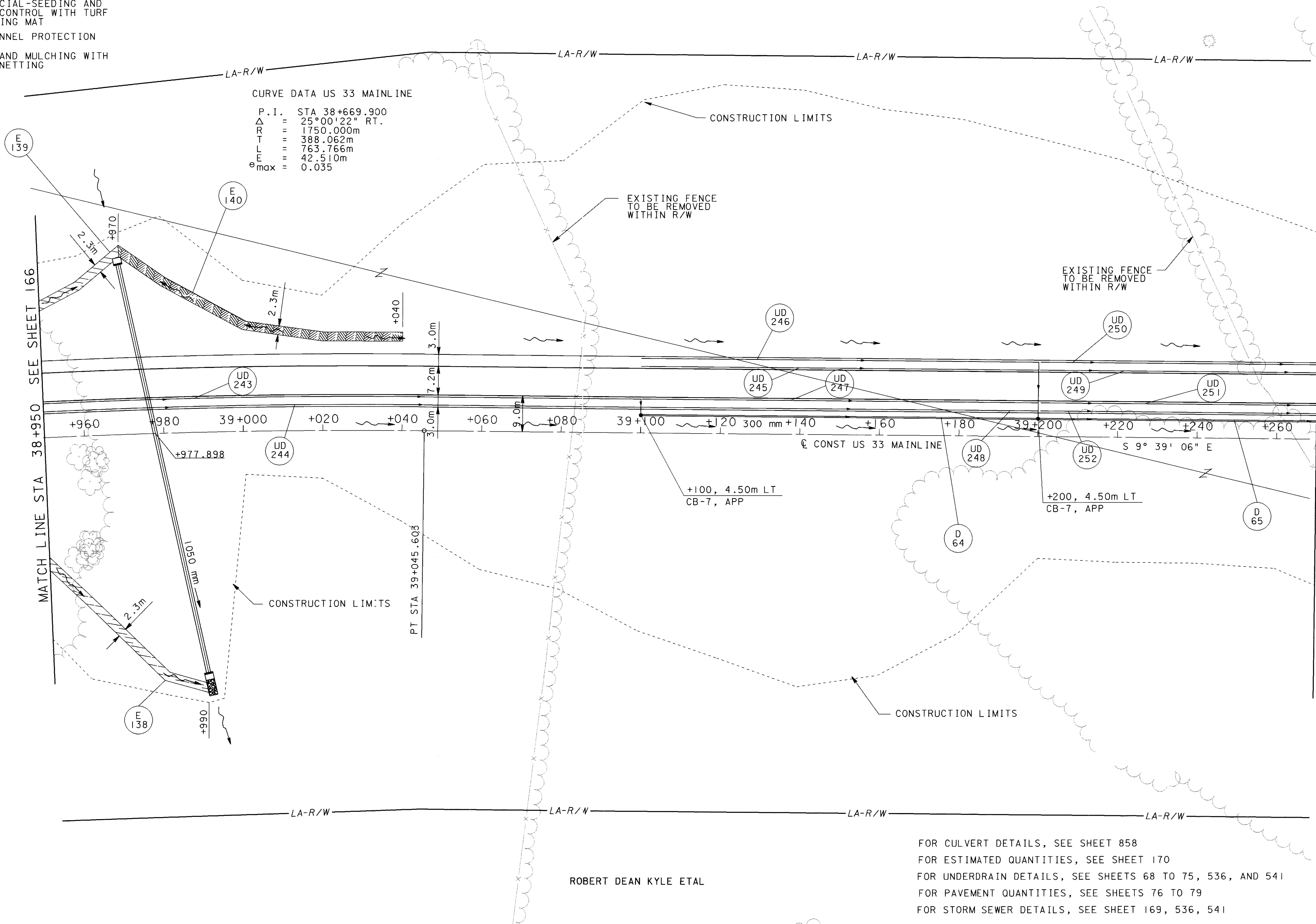
LEGEND

-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING

ROBERT DEAN KYLE ETAL

CURVE DATA US 33 MAINLINE

P.I. = STA 38+669.900  
 $\Delta$  = 25°00'22" RT.  
 R = 1750.000m  
 T = 388.062m  
 L = 763.766m  
 E = 42.510m  
 $e_{max}$  = 0.035



0 20  
 1:800  
 HORIZONTAL  
 SCALE IN METERS

CALCULATED	PRS
CHECKED	AM

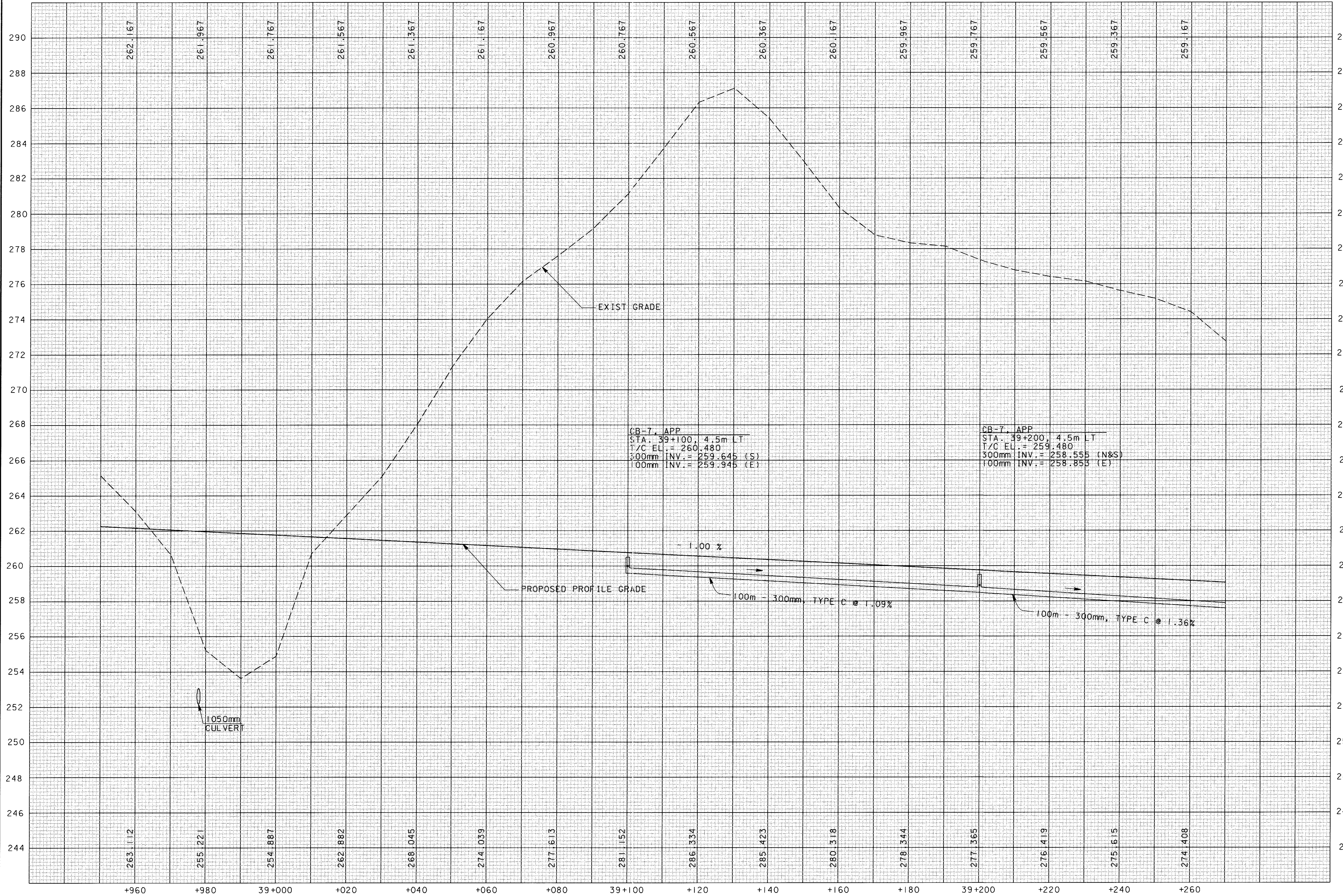
US 33 MAINLINE PLAN  
 STA 38+950 TO STA 39+270

ATH-33-30.981

ROBERT DEAN KYLE ETAL

FOR CULVERT DETAILS, SEE SHEET 858  
 FOR ESTIMATED QUANTITIES, SEE SHEET 170  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 536, AND 541  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 169, 536, 541

04 FEB 2001 09:17:36  
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CALCULATED  
 PRS  
 CHECKED  
 AM  
**PROFILE - US 33**  
**STA 38+950.000 TO STA 39+270.000**

**ATH-33-30.981**

REF NO.	SHEET NO.	STATION		SIDE	601	603	604	670	672	SPECIAL												
		FROM	TO		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (DEPTH=0.5 M)	300mm CONDUIT, TYPE C	CATCH BASIN, NO. 7, AS PER PLAN	DITCH EROSION PROTECTION	SEEDING AND MULCHING WITH EROSION CONTROL NETTING	MISC.: SEEDING AND EROSION CONTROL WITH TURE REINFORCING MAT, TYPE I	CU. METER	METER	EACH	SQ. METER	SQ. METER	SQ. METER						
D62	164	38+340.000	38+480.000	LT		140.0	1															
D63	164	38+480.000	38+600.000	LT		141.4	2															
D64	168	39+100.000	39+200.000	LT		100.0	1															
D65	168	39+200.000	39+270.000	LT		111.0	1															
E132	164	38+310.000	38+560.000	LT					950.0													
E133	164	38+560.000	38+620.000	LT				228.0														
E134	164	38+580.000	38+606.000	RT						73.6												
E135	166	38+740.000	38+794.000	LT					162.0													
E136	166	38+740.000	38+800.000	LT&RT					185.6													
E137	166	38+800.000	38+852.000	RT	64.4																	
E138	166, 168	38+918.000	38+990.000	RT						225.40												
E139	166, 168	38+940.000	38+970.000	LT						82.8												
E140	168	38+970.000	39+040.000	LT				176.6														
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					64.4	492.4	5	404.6	1297.6	381.8												

**ESTIMATED QUANTITIES**  
**STA. 38+310 TO STA. 39+270**


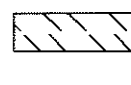

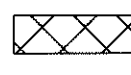
**ATH-33-30.981**

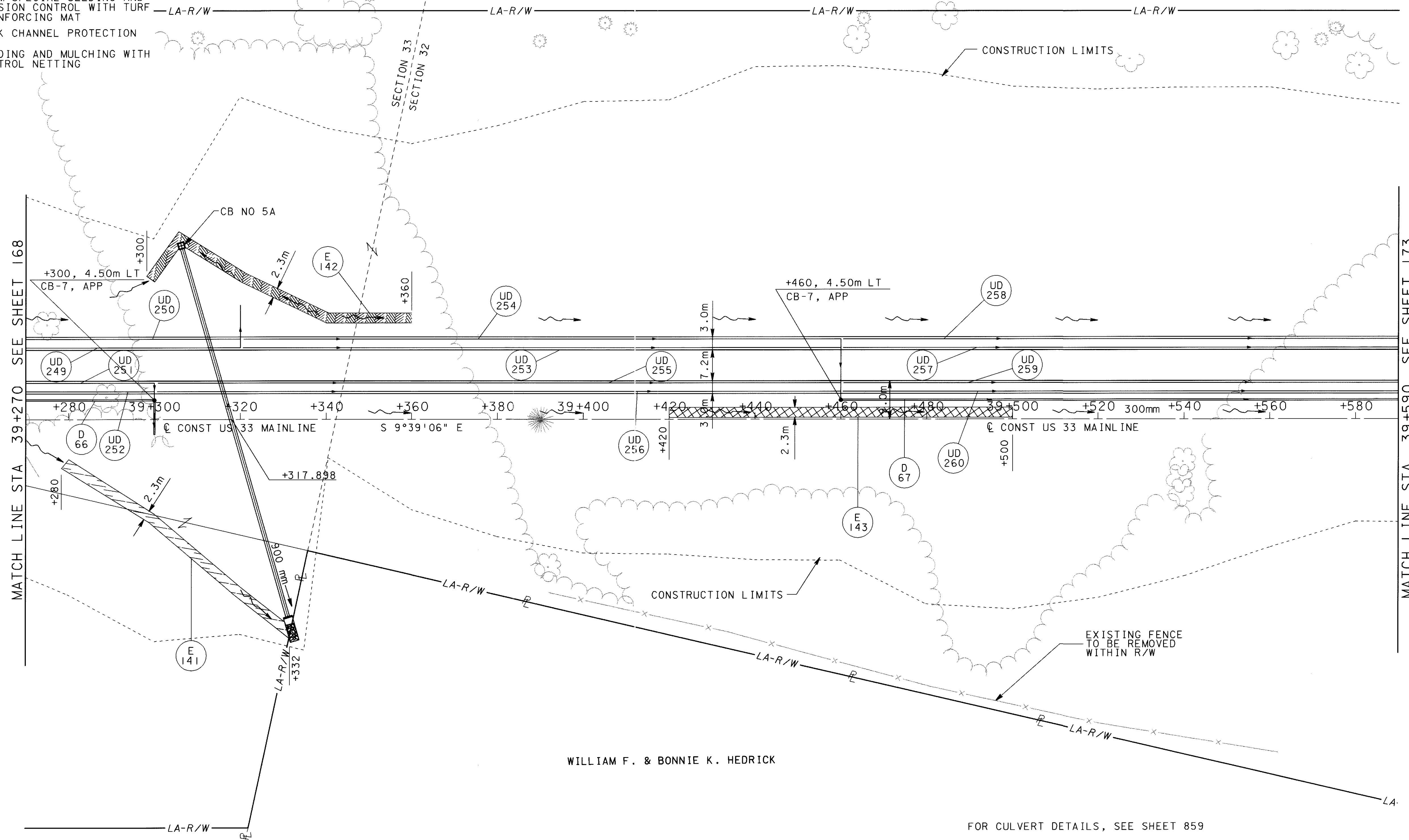
CALCULATED  
 AML  
 CHECKED  
 AM

ROBERT DEAN KYLE ETAL

ROBERT DEAN KYLE ETAL

LEGEND

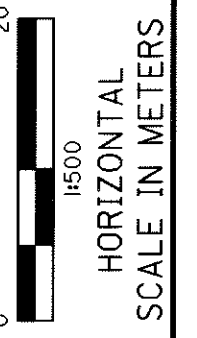
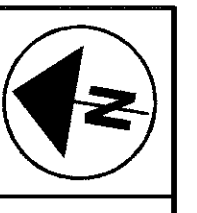
-  DITCH EROSION PROTECTION
-  ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
-  ROCK CHANNEL PROTECTION
-  SEEDING AND MULCHING WITH CONTROL NETTING



WILLIAM F. & BONNIE K. HEDRICK

ROBERT DEAN KYLE ETAL

FOR CULVERT DETAILS, SEE SHEET 859  
 FOR ESTIMATED QUANTITIES, SEE SHEET 175  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, 544 AND 551  
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
 FOR STORM SEWER DETAILS, SEE SHEET 172, 544 AND 551



CALCULATED  
PRS

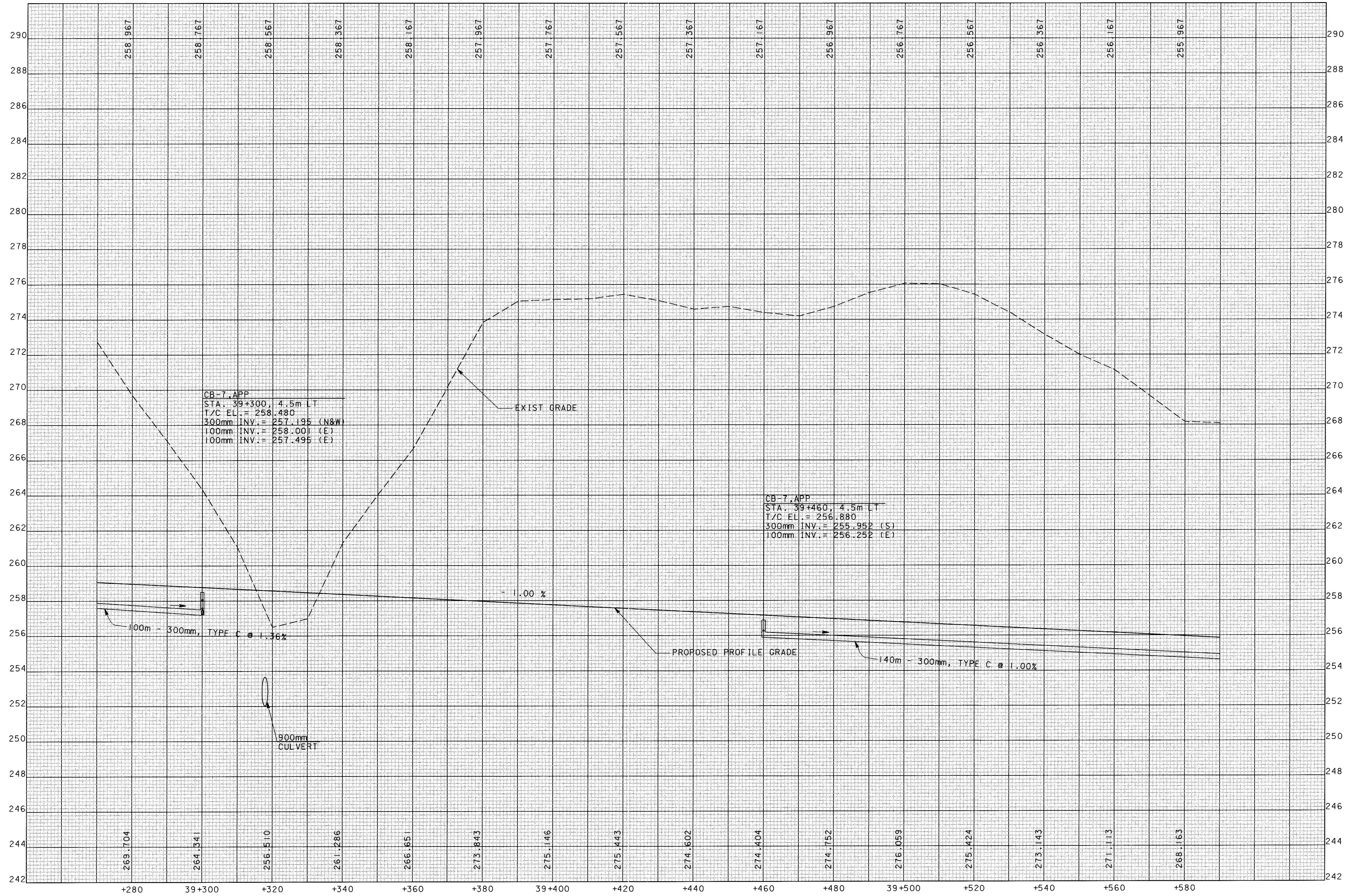
CHECKED  
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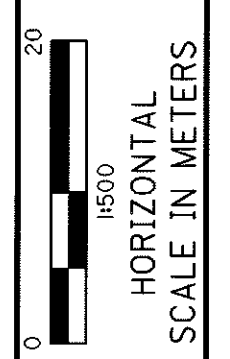
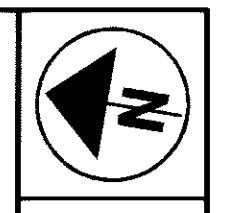
**US 33 MAINLINE PLAN**  
**STA 39+270 TO STA 39+590**

**ATH-33-30.981**

04 FEB 2001 09:24:07  
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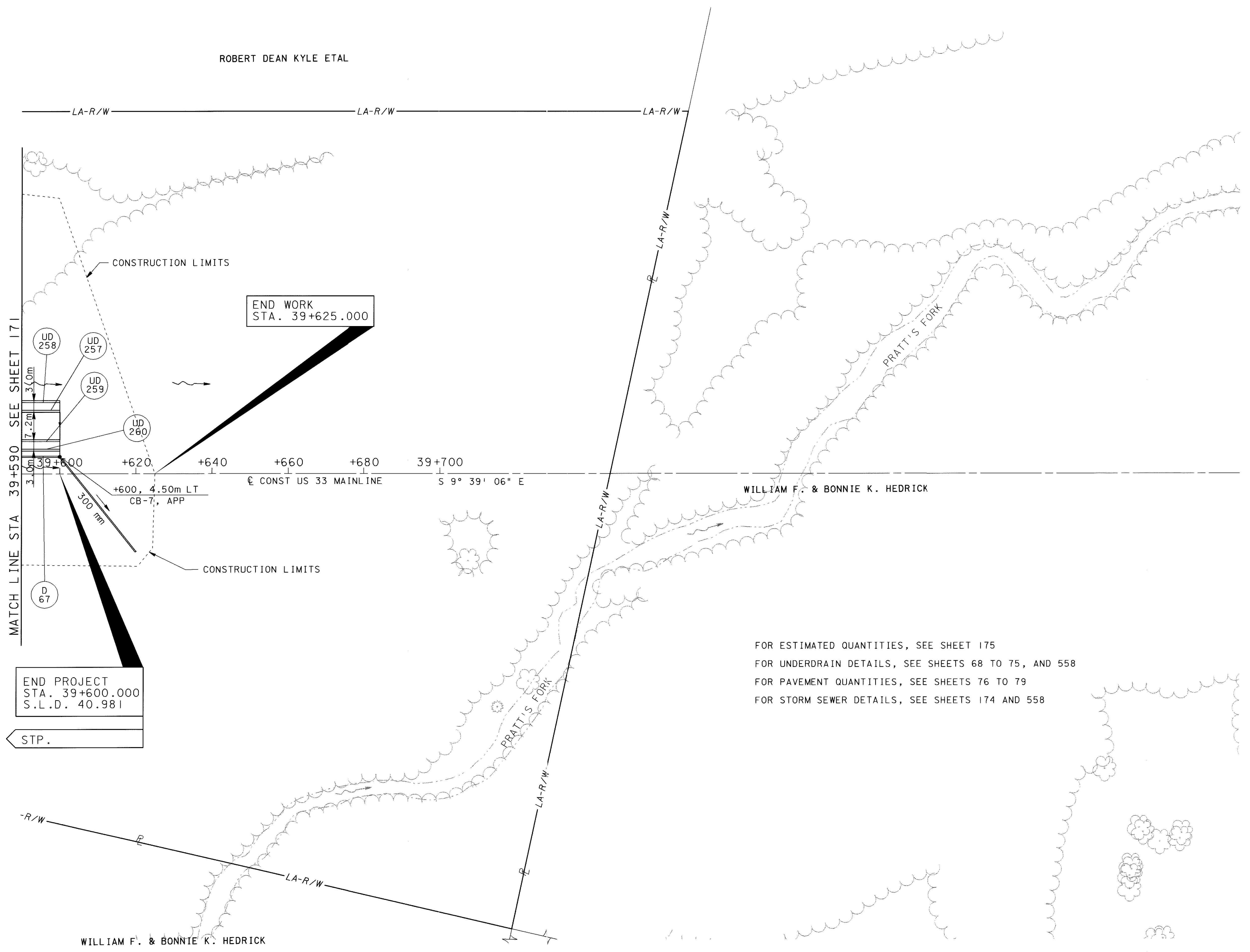
CALCULATED  
PRS  
CHECKED  
AM

**US 33 MAINLINE PLAN  
STA 39+590 TO STA 39+600**

**ATH-33-30.981**

173  
956

ROBERT DEAN KYLE ETAL



END WORK  
STA. 39+625.000

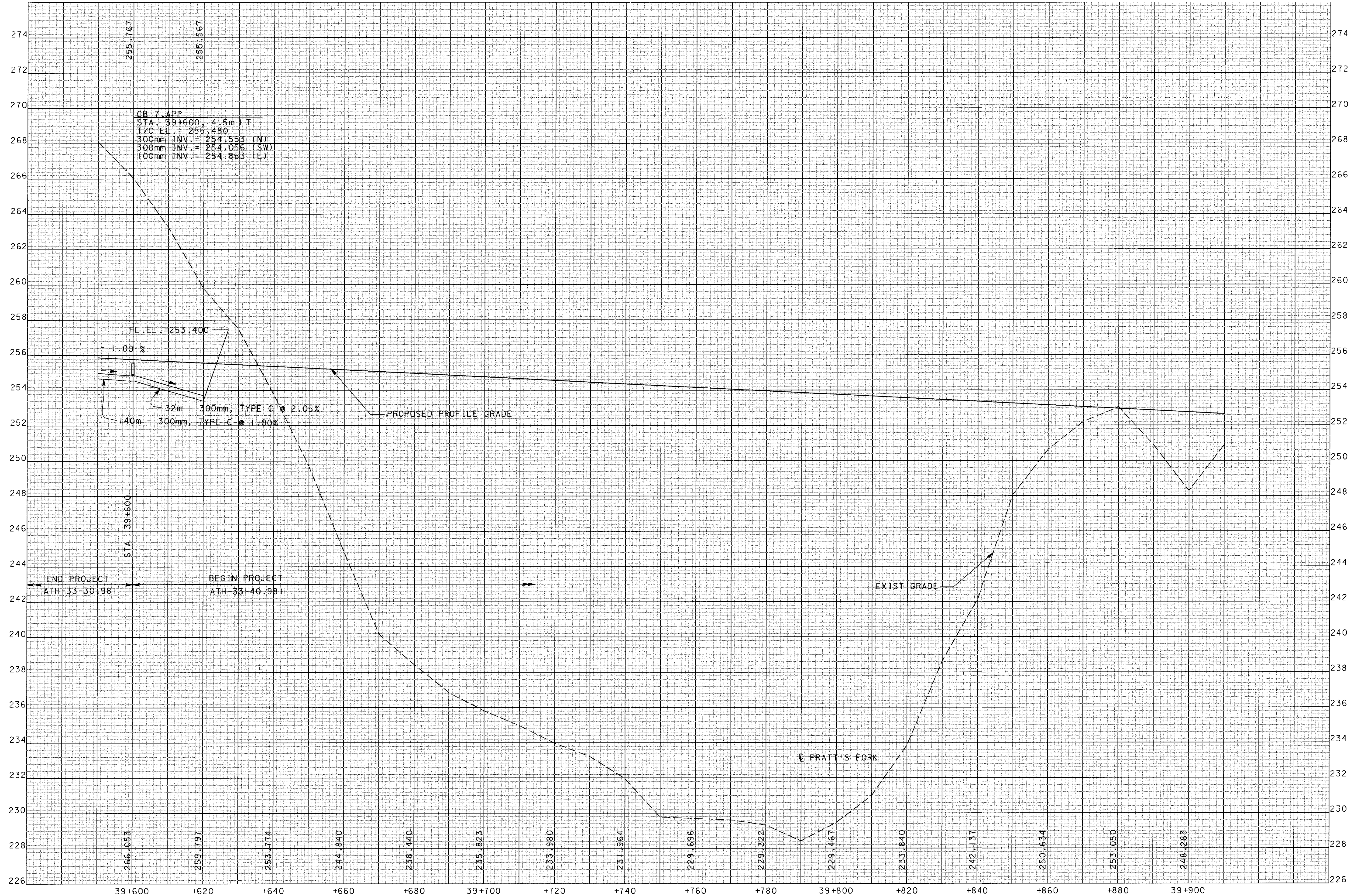
END PROJECT  
STA. 39+600.000  
S.L.D. 40.981

STP.

FOR ESTIMATED QUANTITIES, SEE SHEET 175  
FOR UNDERDRAIN DETAILS, SEE SHEETS 68 TO 75, AND 558  
FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79  
FOR STORM SEWER DETAILS, SEE SHEETS 174 AND 558

MATCH LINE STA 39+590 SEE SHEET 171

04 FEB 2001 09:32:39  
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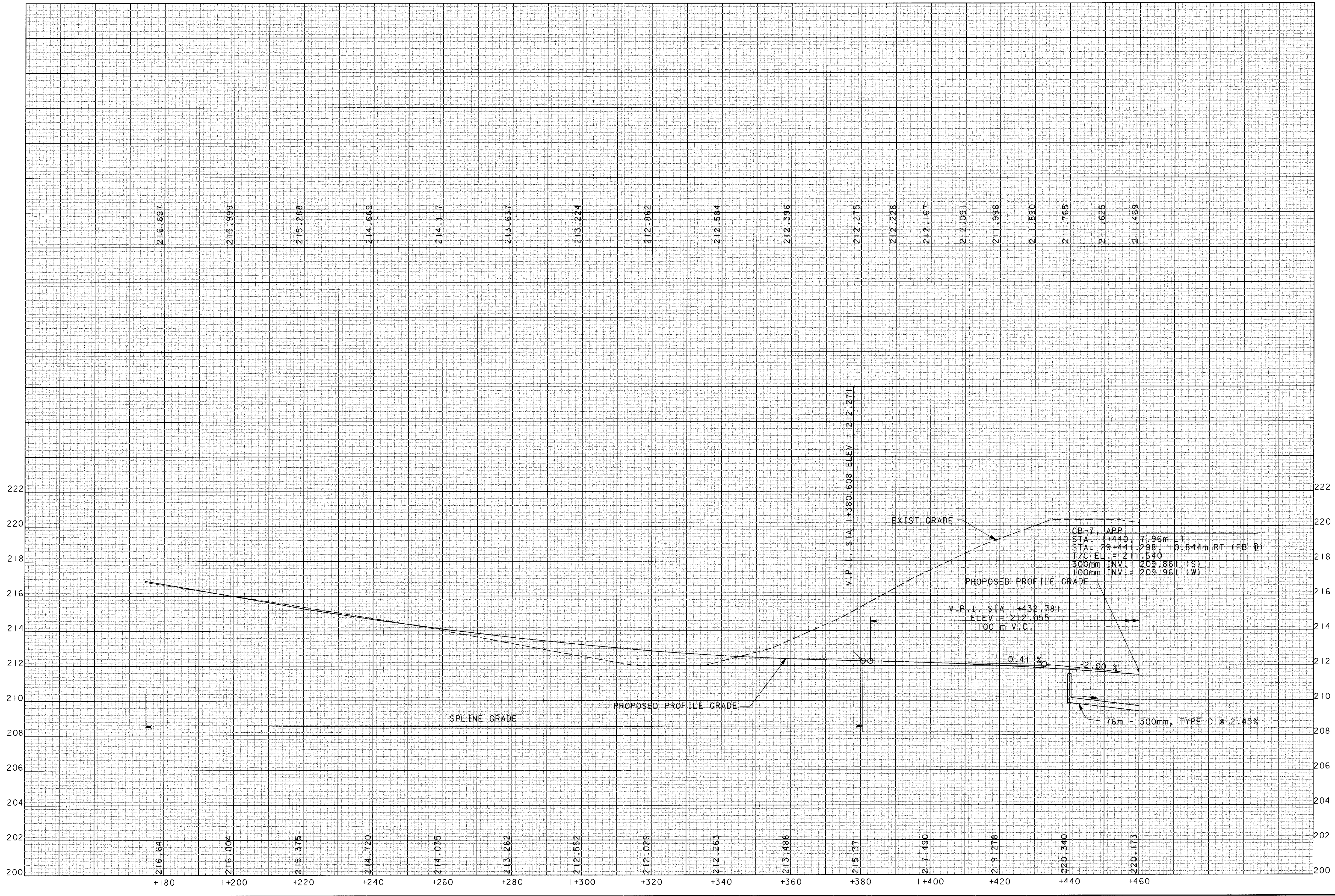
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PPS  
CHECKED  
AM

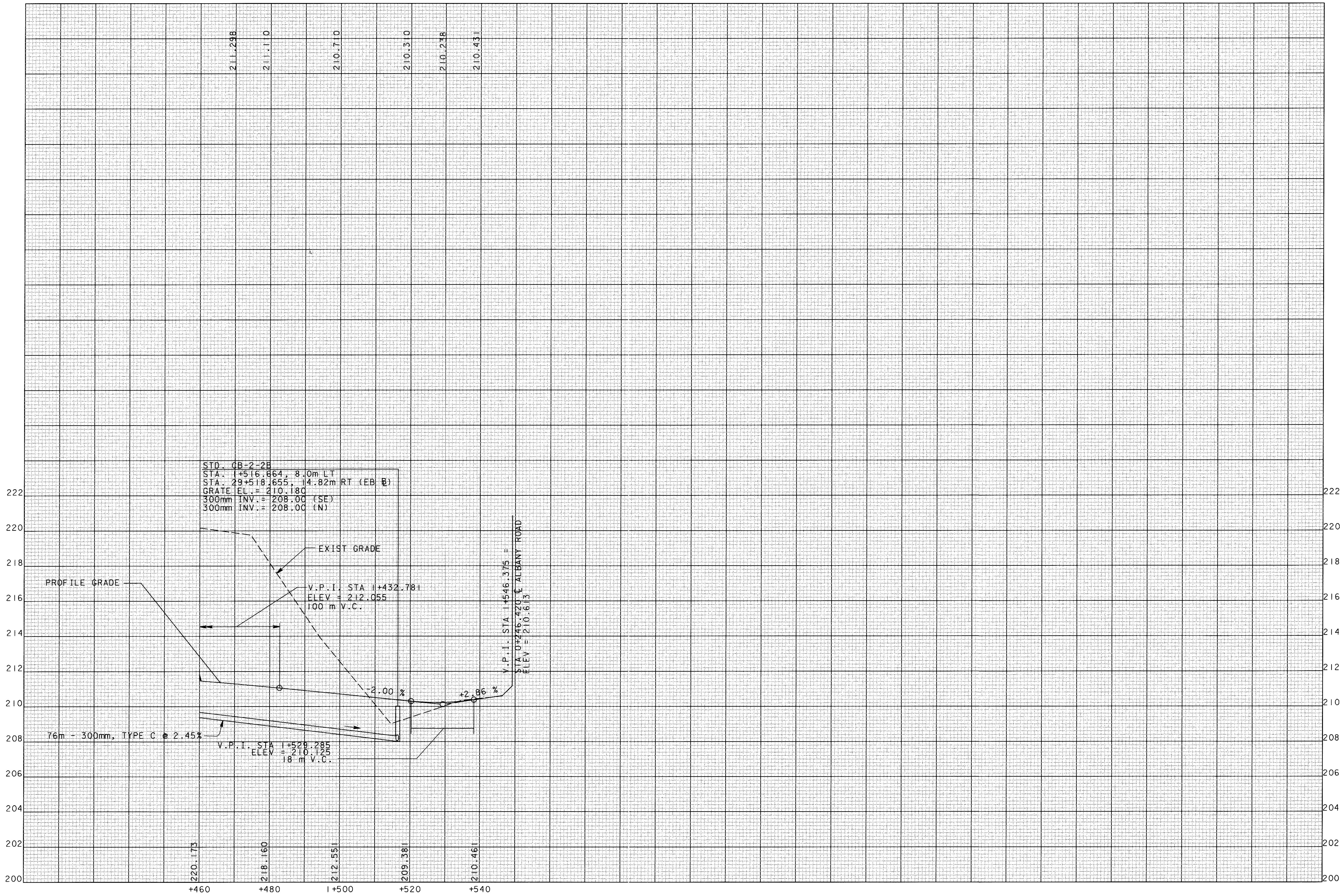
PROFILE - US 33  
STA 39+590.000 TO STA 39+910.000

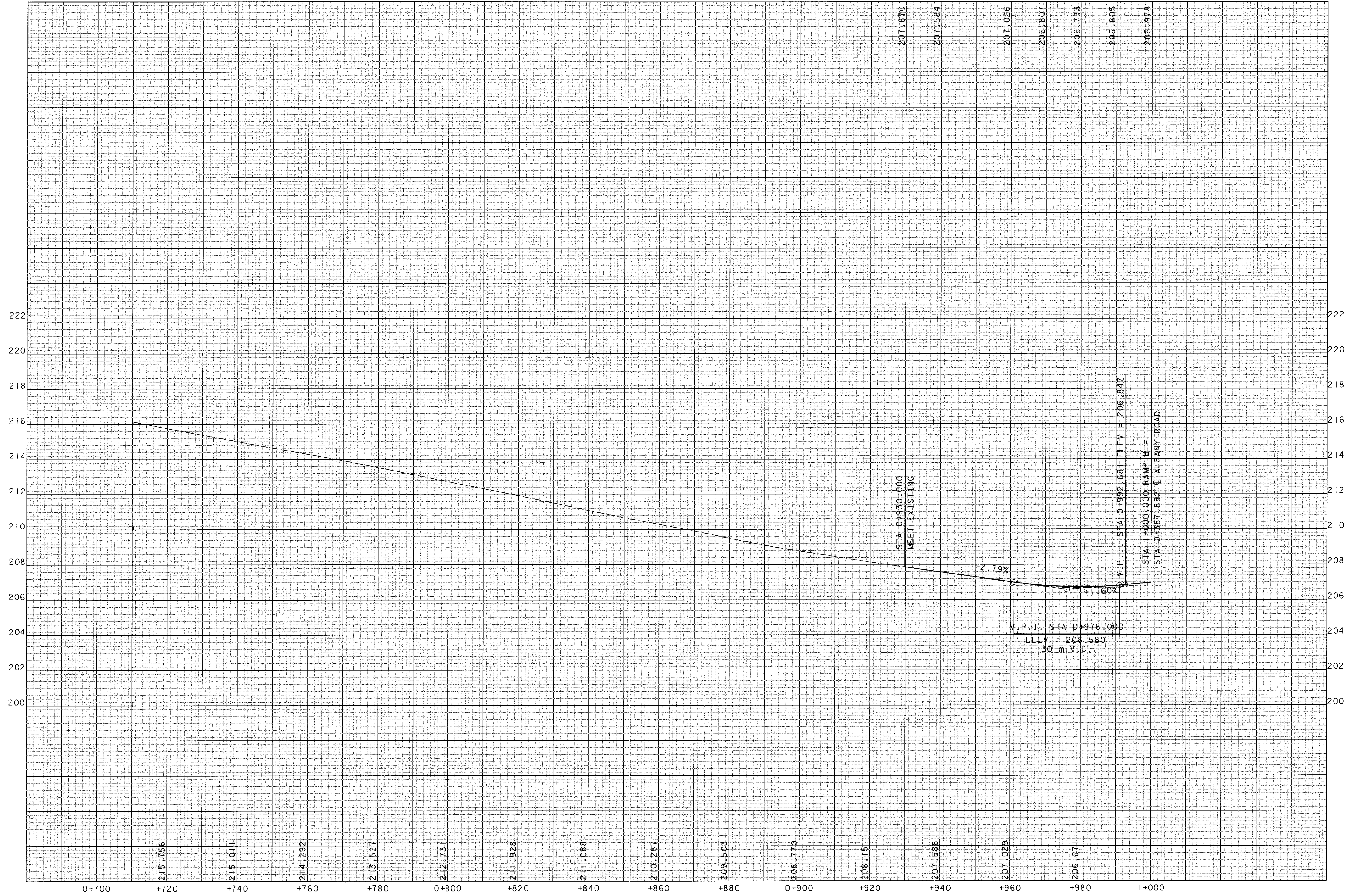
ATH-33-30.981

REF NO.	SHEET NO.	STATION		SIDE	603	604	670	672	SPECIAL											
		FROM	TO		300mm CONDUIT, TYPE C METER	CATCH BASIN, NO. 7, AS PER PLAN EACH	DITCH EROSION PROTECTION SQ. METER	SEEDING AND MULCHING WITH EROSION CONTROL NETTING SQ. METER	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE I SQ. METER											
D66	171	39+270.000	39+300.000	LT	40.8	1														
D67	171, 173	39+460.000	39+600.000	LT	172.0	2														
E141	171	39+280.000	39+332.000	RT					149.5											
E142	171	39+300.000	39+360.000	LT			165.6													
E143	171	39+420.000	39+500.000	RT				184.0												
<b>TOTALS CARRIED TO ROADWAY SUBSUMMARY</b>					212.8	3	165.6	184.0	149.5											

ATH-33-30.981	ESTIMATED QUANTITIES STA. 39+270 TO STA. 39+600	CALCULATED AML	CHECKED AM
175	956		



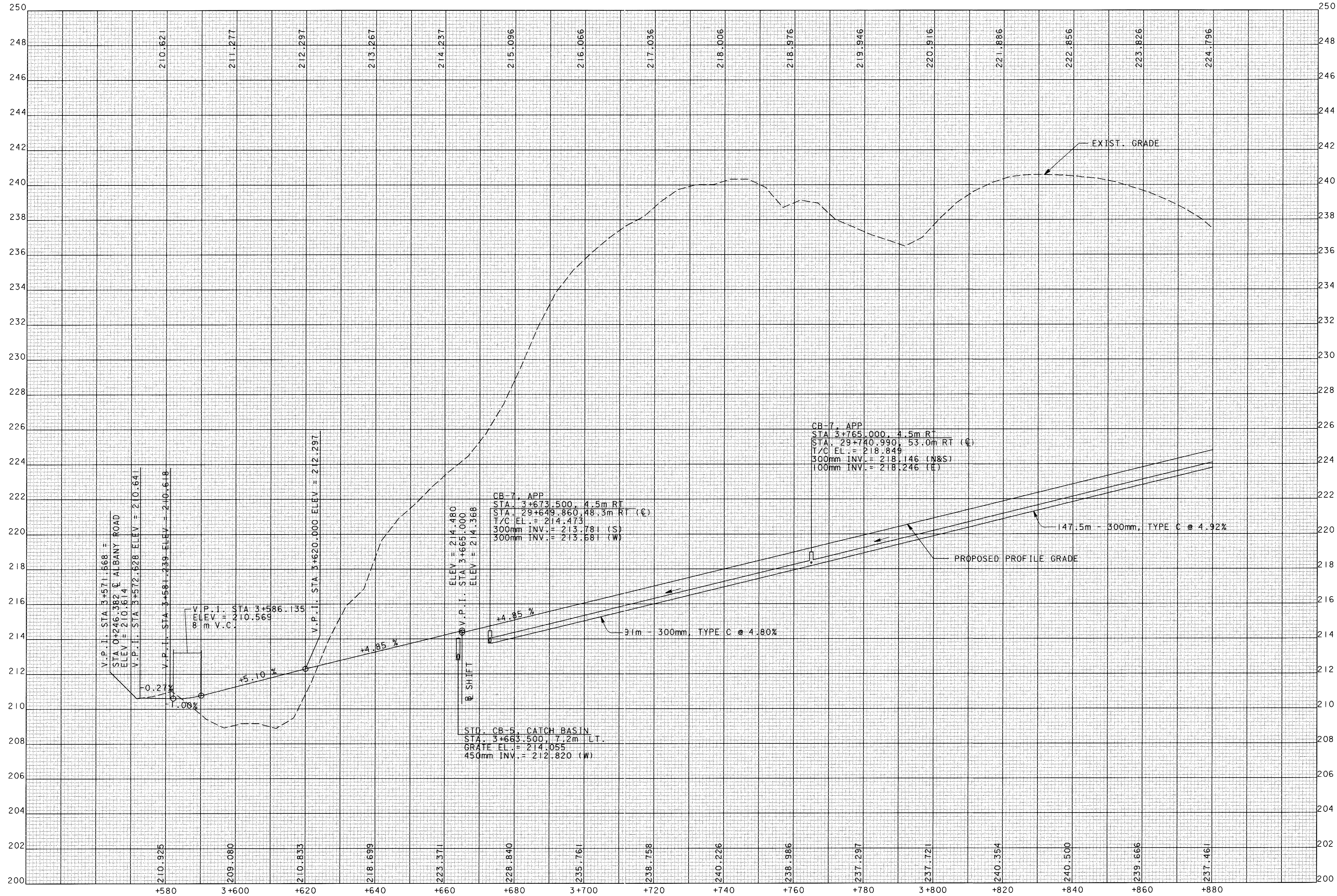




CALCULATED  
SAW  
CHECKED  
PRS

**PROFILE - RAMP B**  
**STA 0+934.000 TO STA 1+000.000**

**ATH-033-30.980**

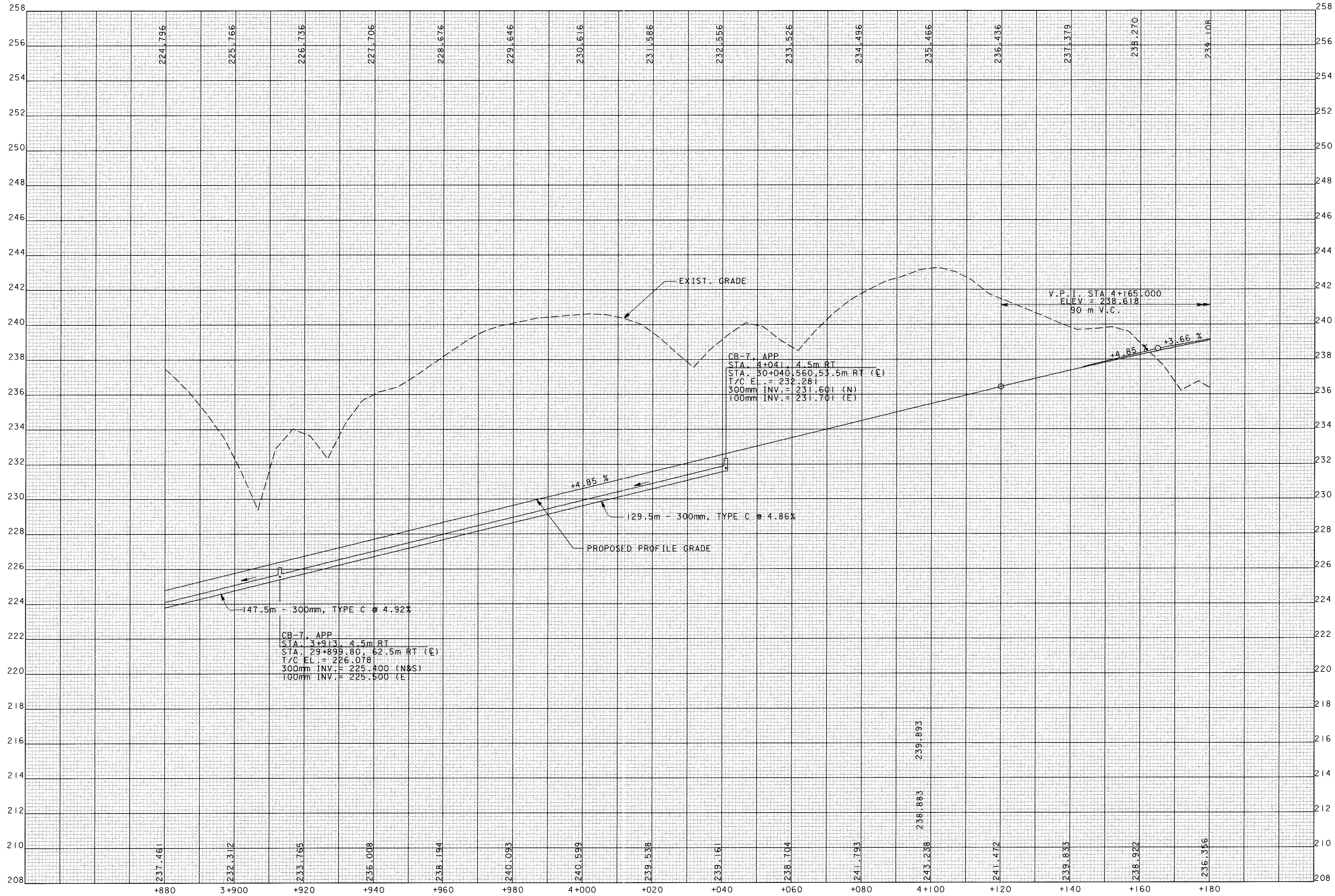


CALCULATED  
PRS  
CHECKED  
AM

PROFILE - RAMP C  
STA 3+571.668 TO STA 3+880

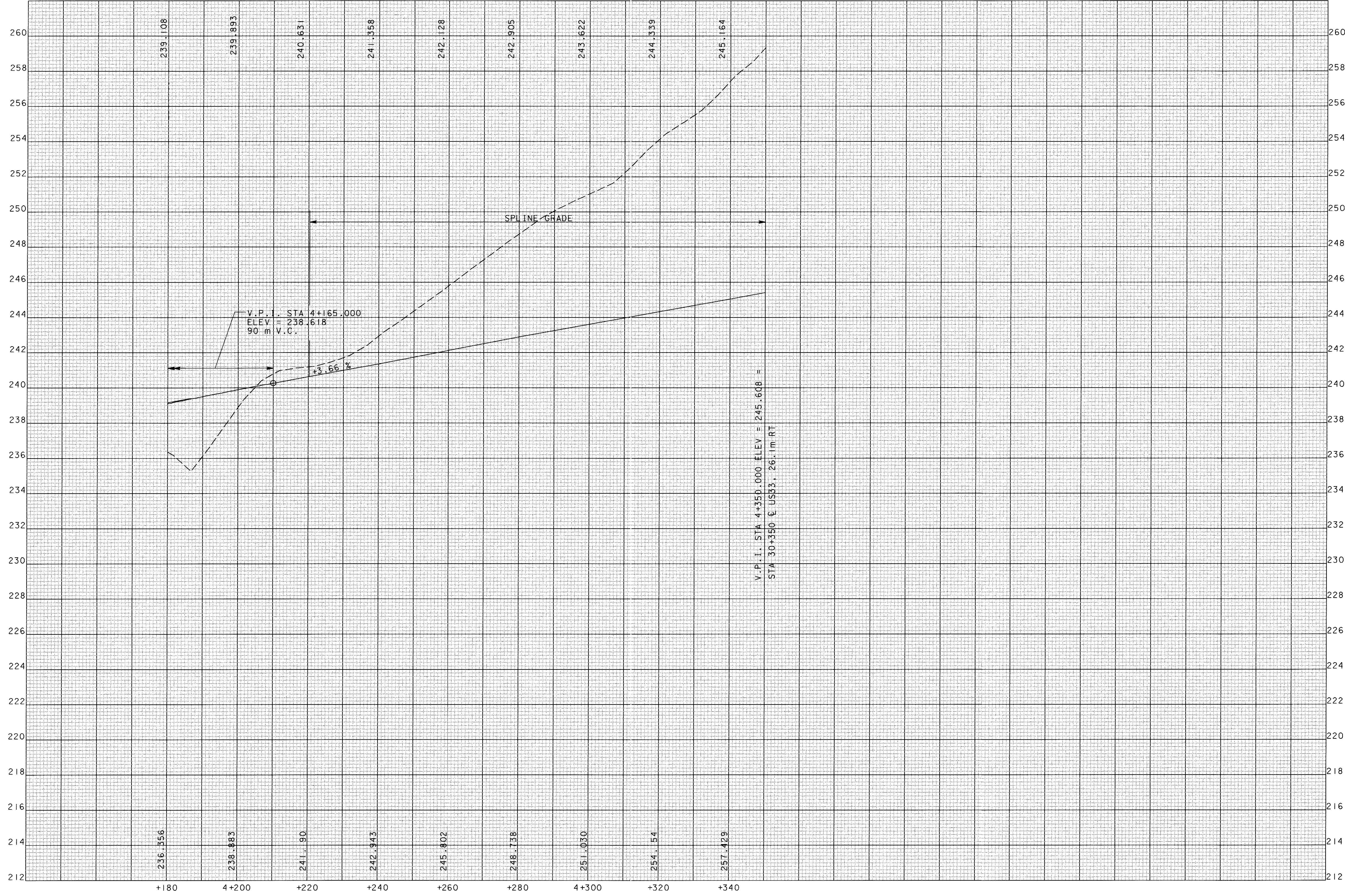
ATH-33-30.981





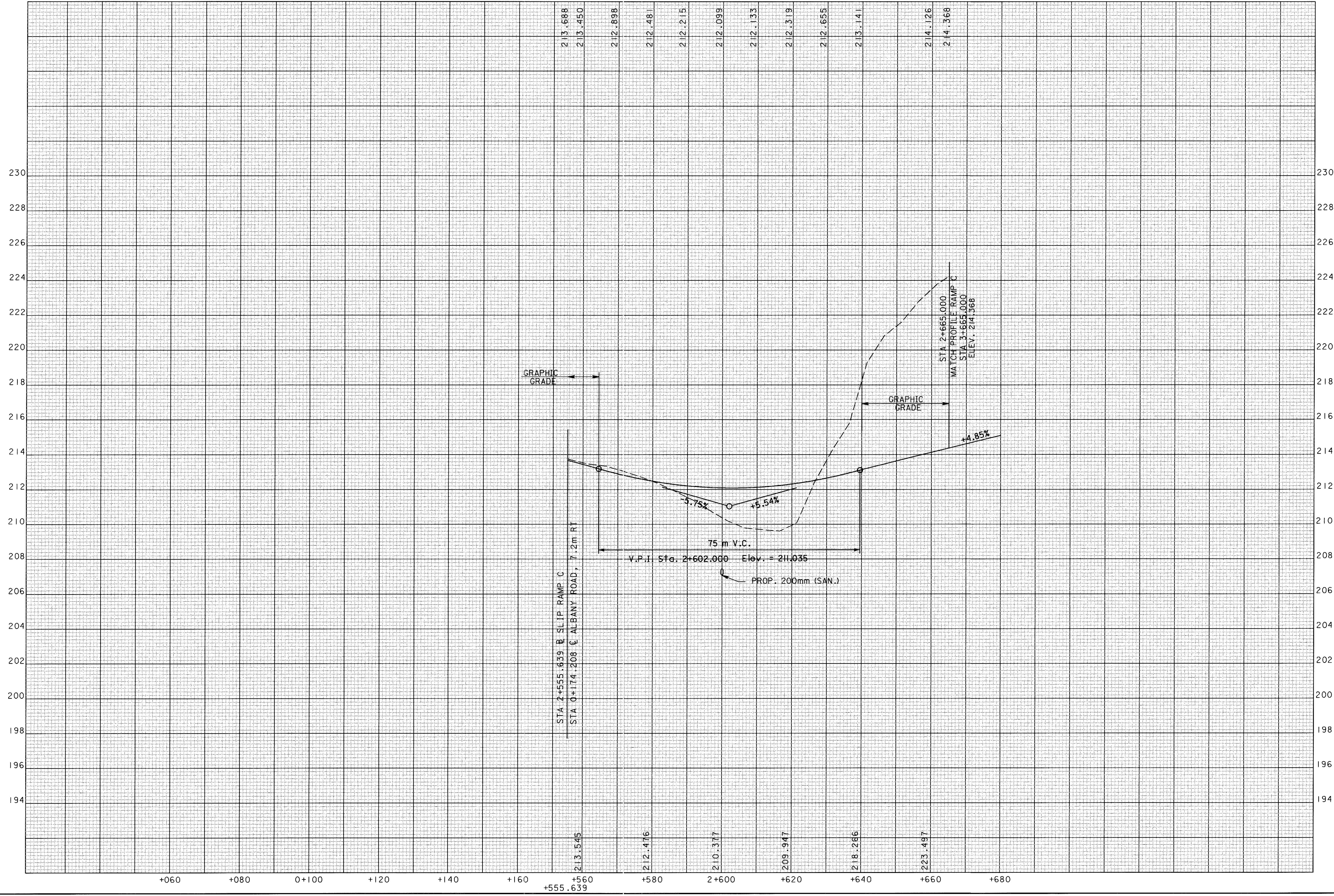
**PROFILE - RAMP C  
 STA 3+880 TO STA 4+180**

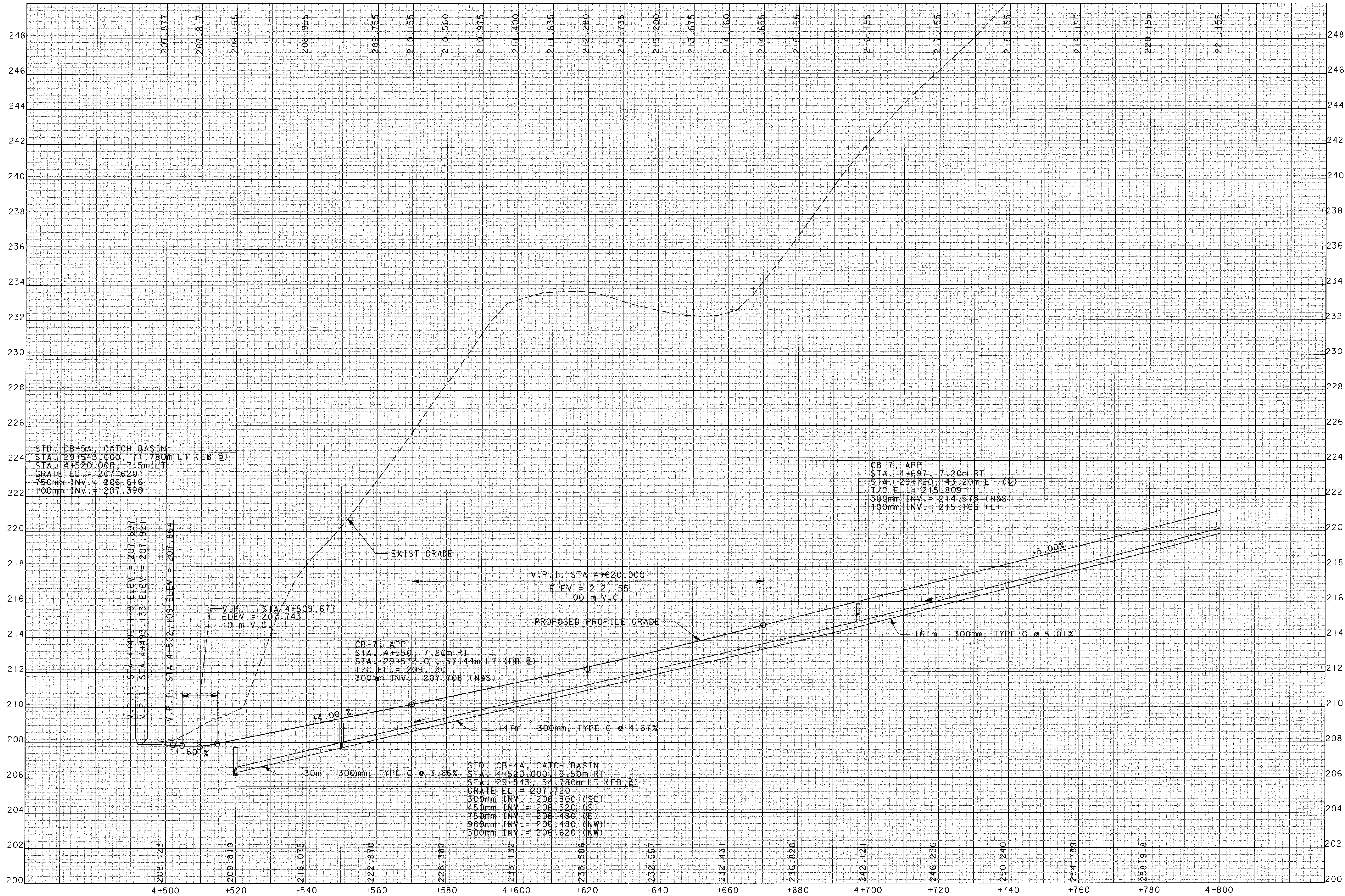
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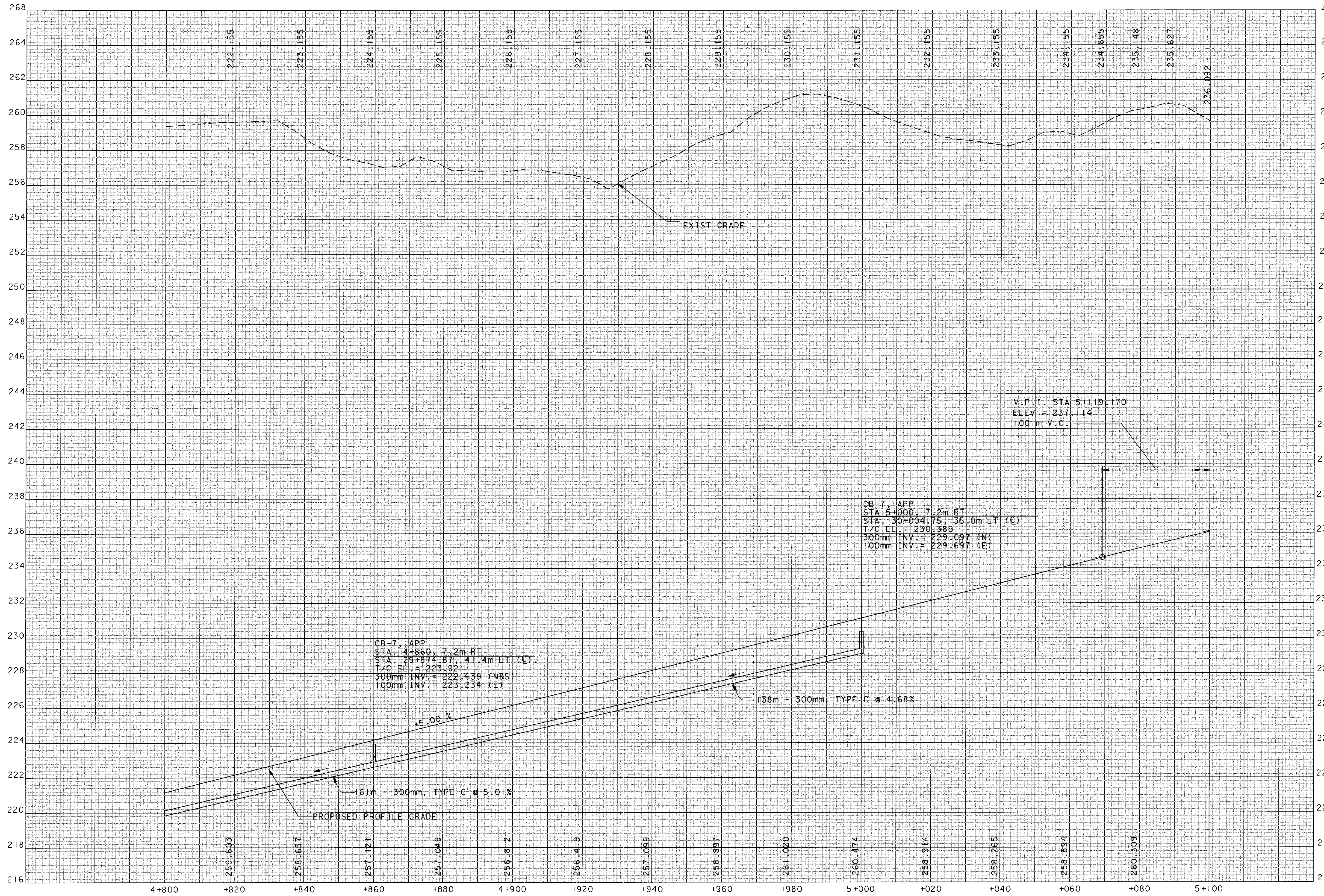


PROFILE - RAMP C  
STA 4+180 TO STA 4+350

ATH-33-30.981



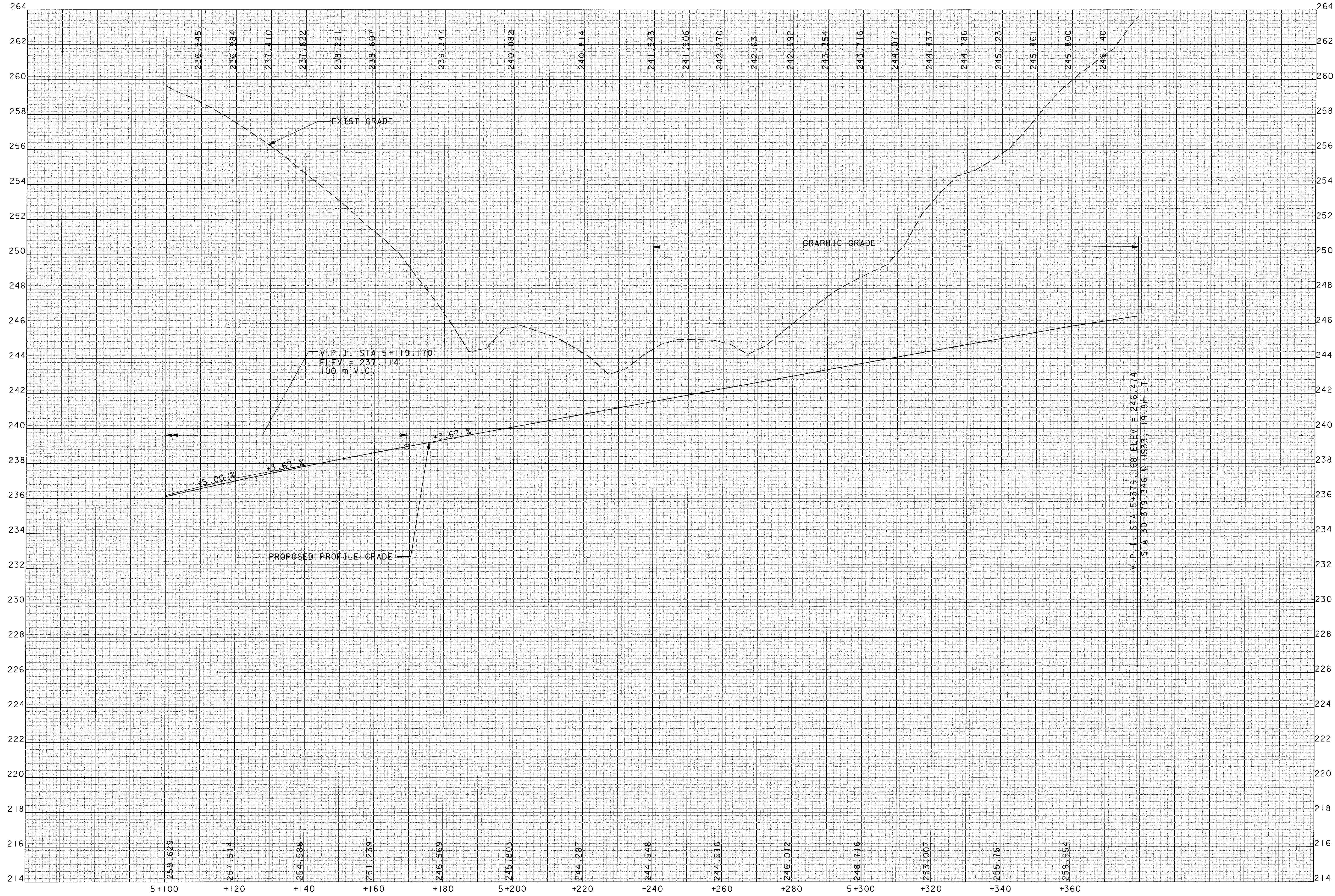




PROFILE - RAMP D  
STA 4+800 TO STA 5+100

ATH-33-30.981

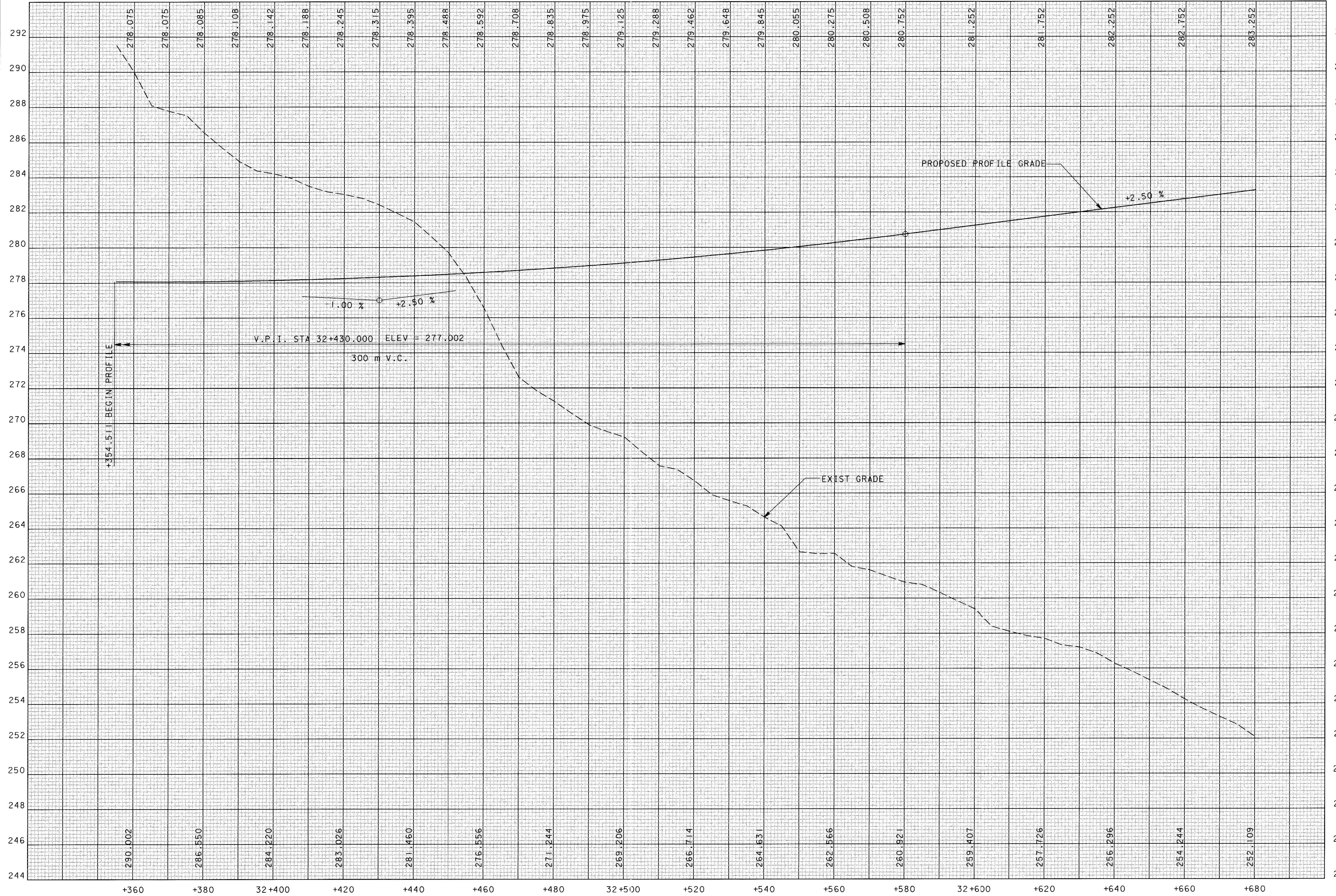
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PPS  
CHECKED  
AM



CALCULATED  
PRS  
CHECKED  
AM

**PROFILE - RAMP D  
STA 5+100 TO STA 5+379.168**

**ATH-33-30.981**

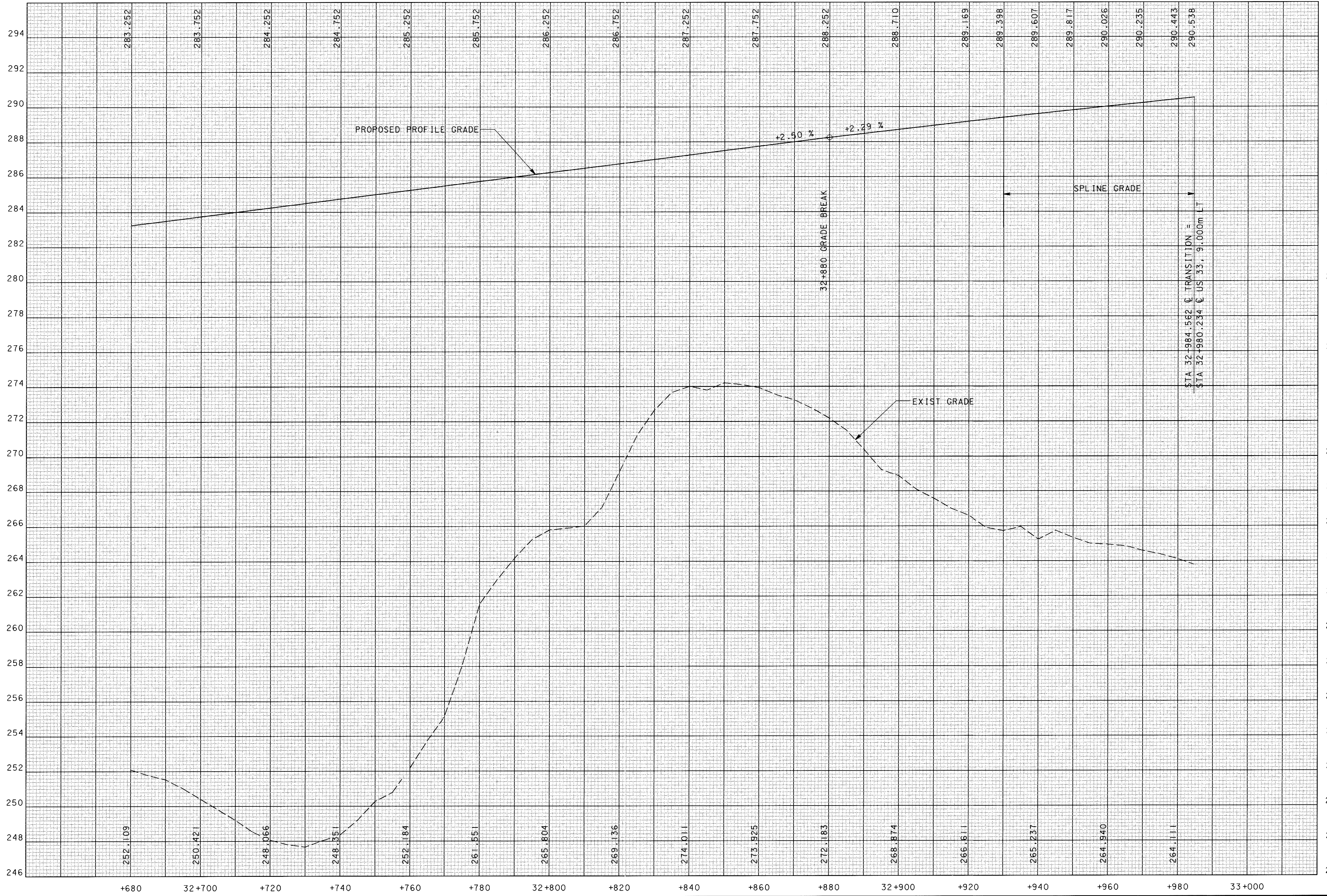


CALCULATED  
 P.R.S.  
 CHECKED  
 AM

**PROFILE - US 33 TRANSITION 4 LANES TO 2 LANES  
 STA 32+355.101 TO STA 32+680.000**

**ATH-33-30.981**

186  
 956



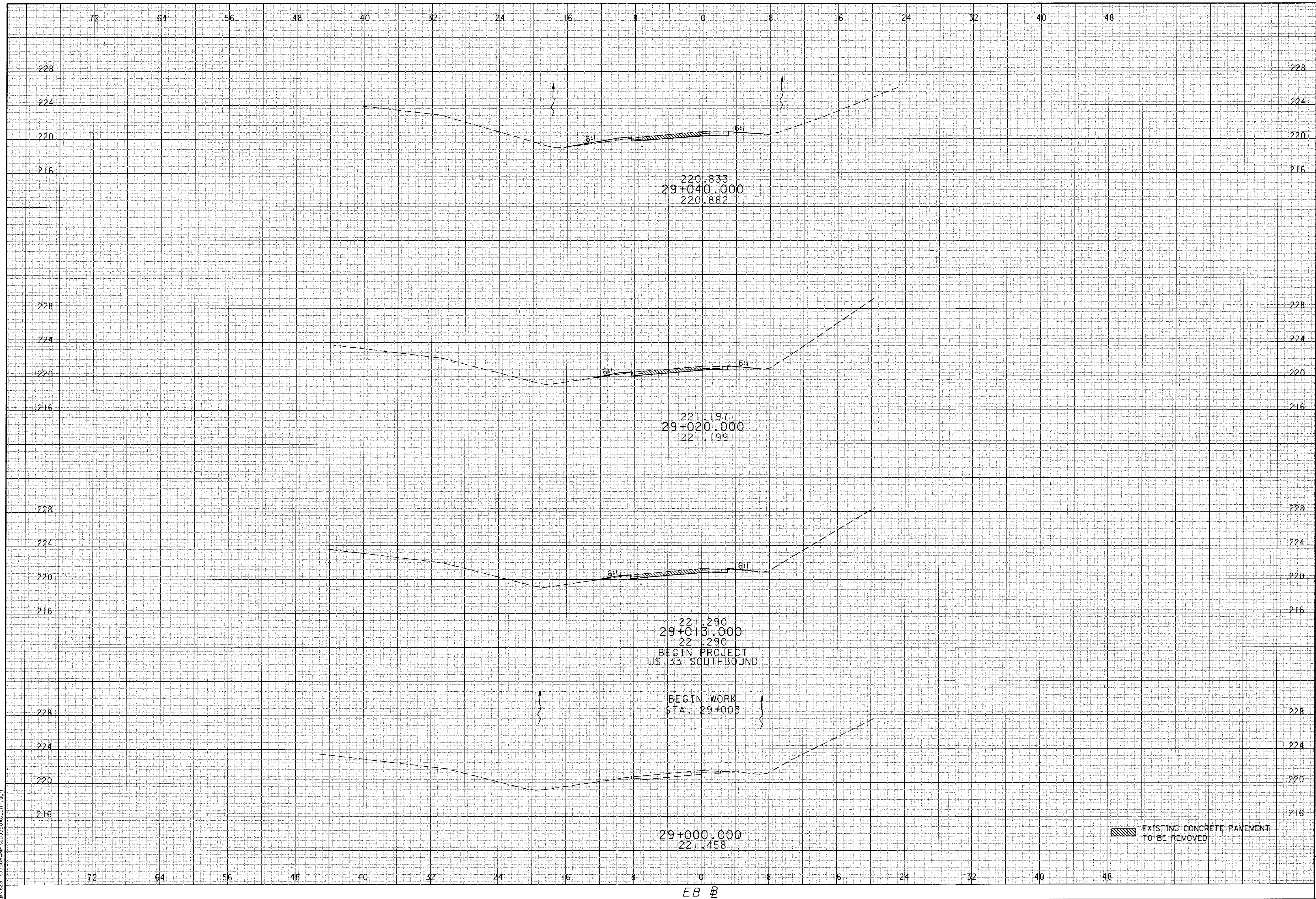
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**PROFILE - US 33 TRANSITION 4 LANES TO 2 LANES  
STA 32+680.000 TO STA 32+984.562**

**ATH-033-30.980**



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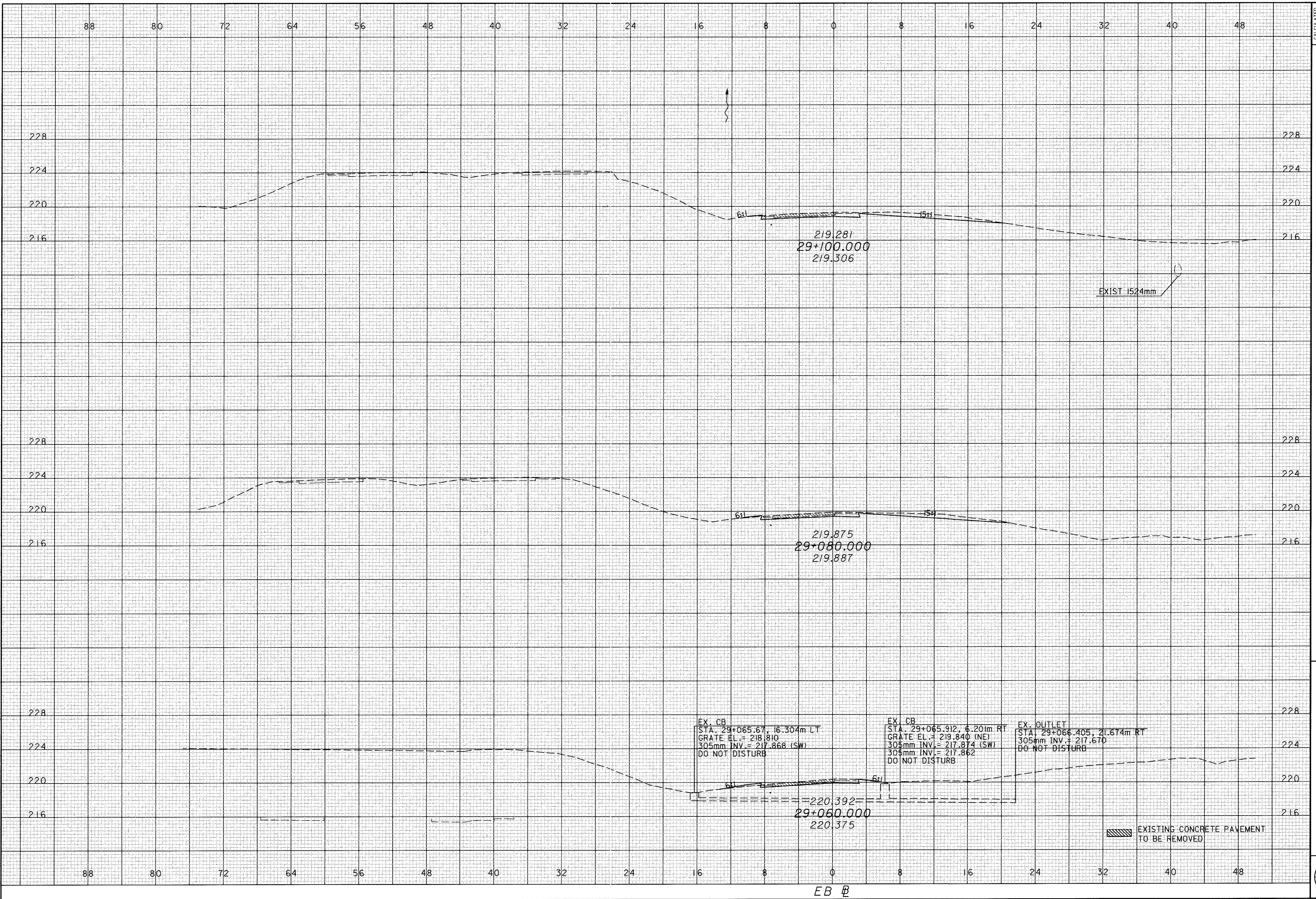
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CROSS SECTIONS  
STA 29+000 TO STA 29+040

ATH-33-30.981

EB @

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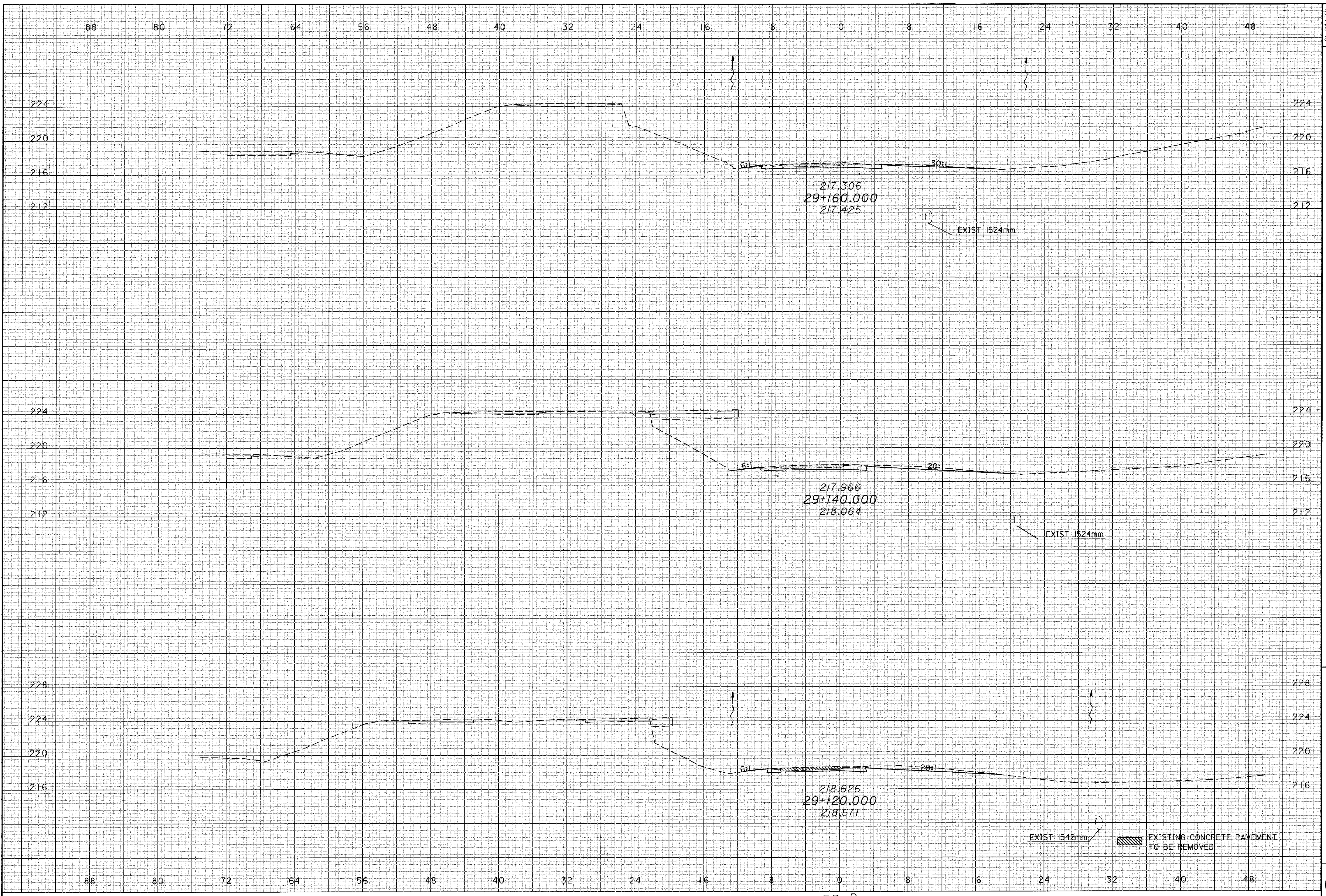


CALCULATED  
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CROSS SECTIONS  
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ATH-33-30.981

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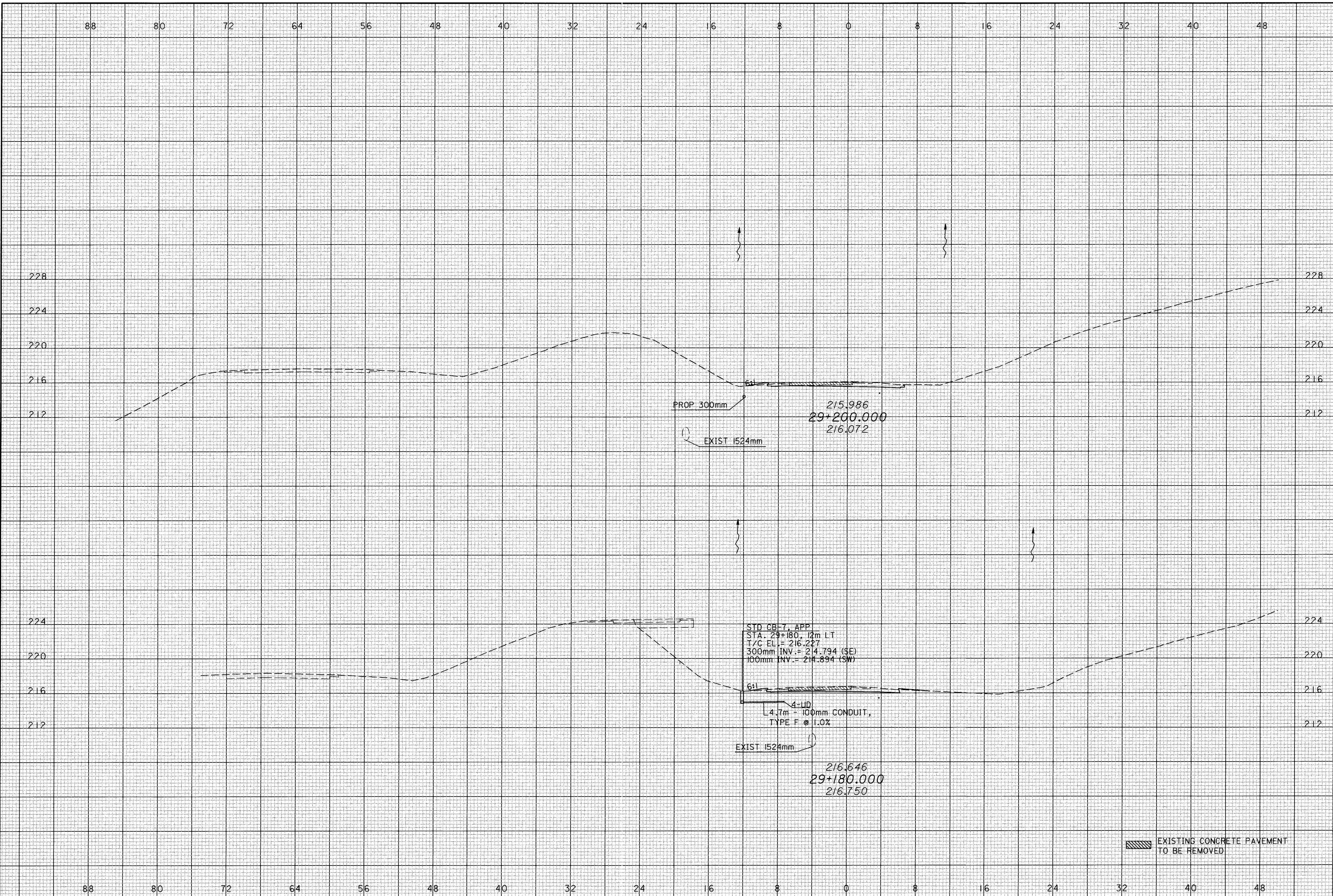
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CROSS SECTIONS  
STA 29+120 TO STA 29+160

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EB B

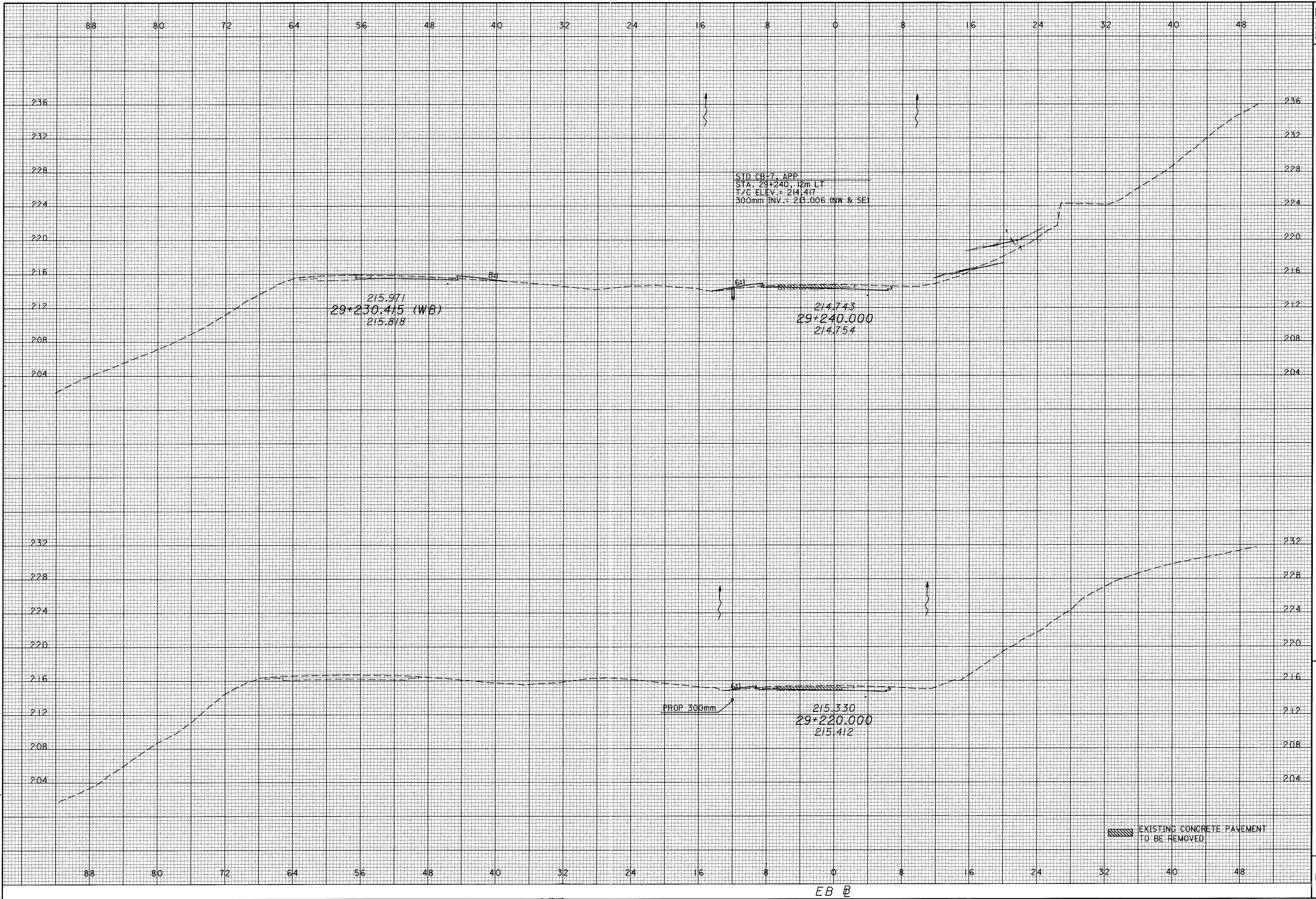
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CALCULATED	PRS	CHECKED	TAL
<b>CROSS SECTIONS</b> <b>STA 29+180 TO STA 29+200</b>			
<b>ATH-33-30.981</b>			
( 191 ) 956			

EB B

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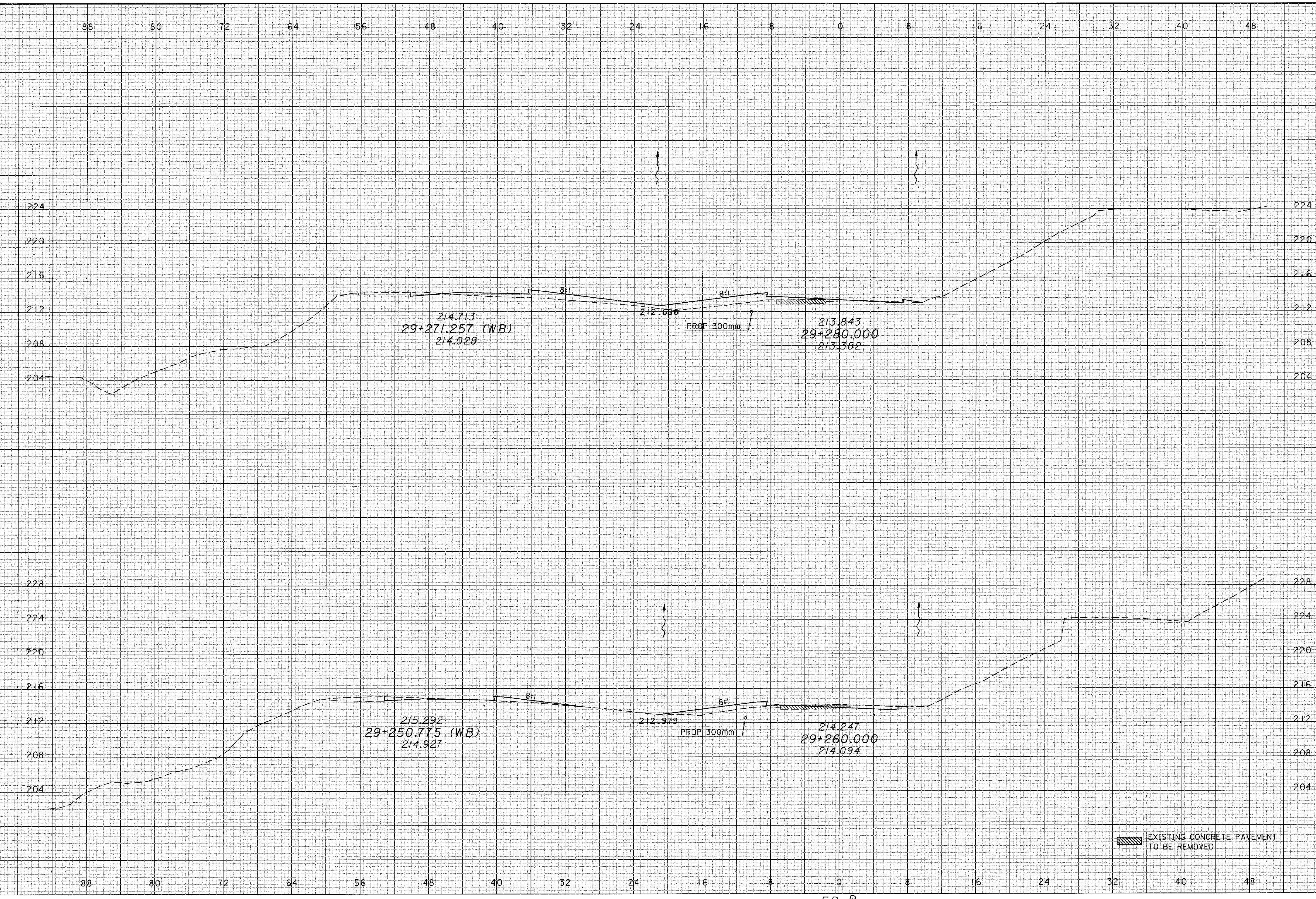
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CHECKED  
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CROSS SECTIONS  
STA 29+220 TO STA 29+240

ATH-33-30.981

EB @

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CALCULATED  
PRS  
CHECKED  
TAL

CROSS SECTIONS  
STA 29+260 TO STA 29+280

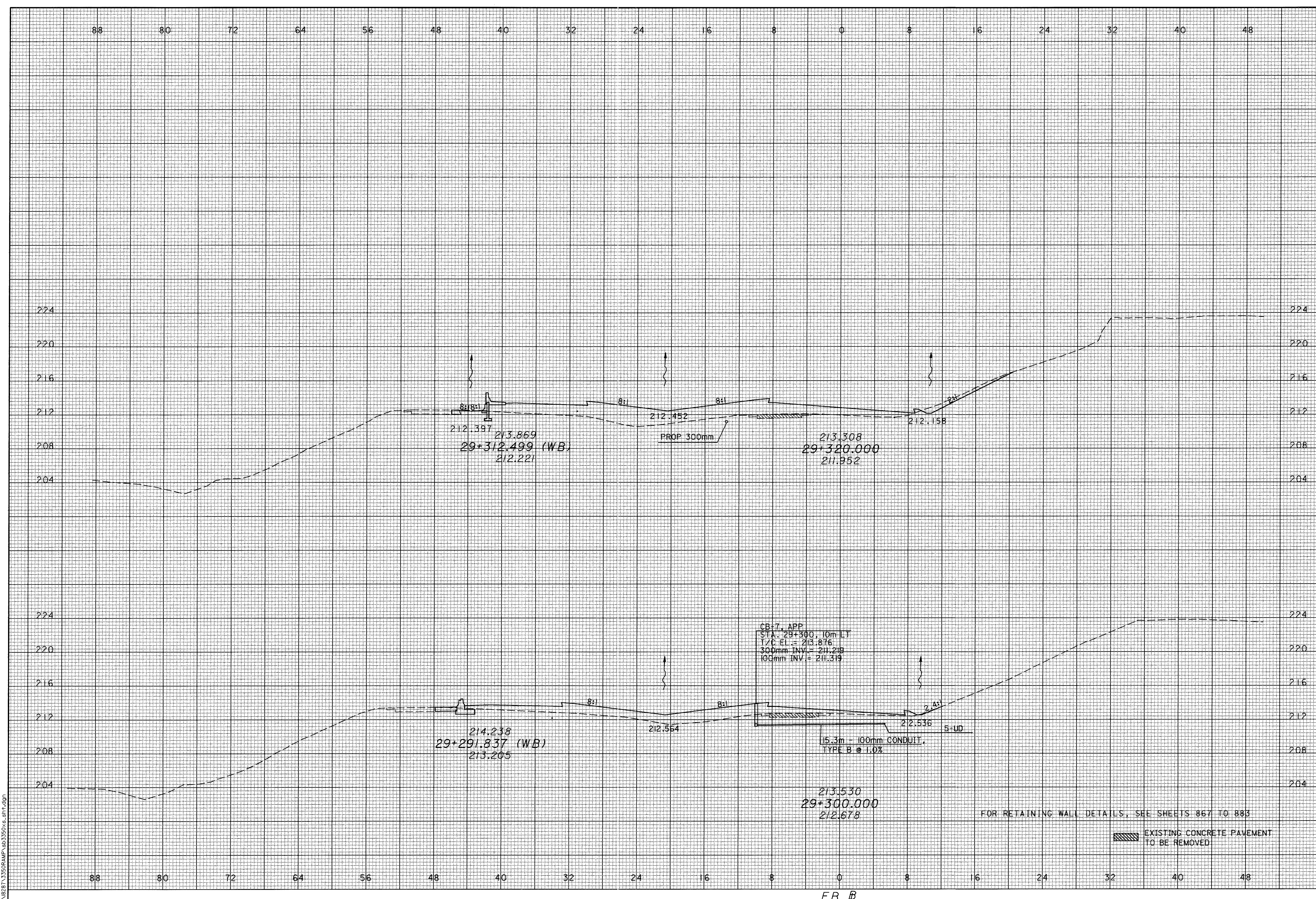
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EB B

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TAL

CROSS SECTIONS  
STA 29+300 TO STA 29+320

ATH-33-30.981

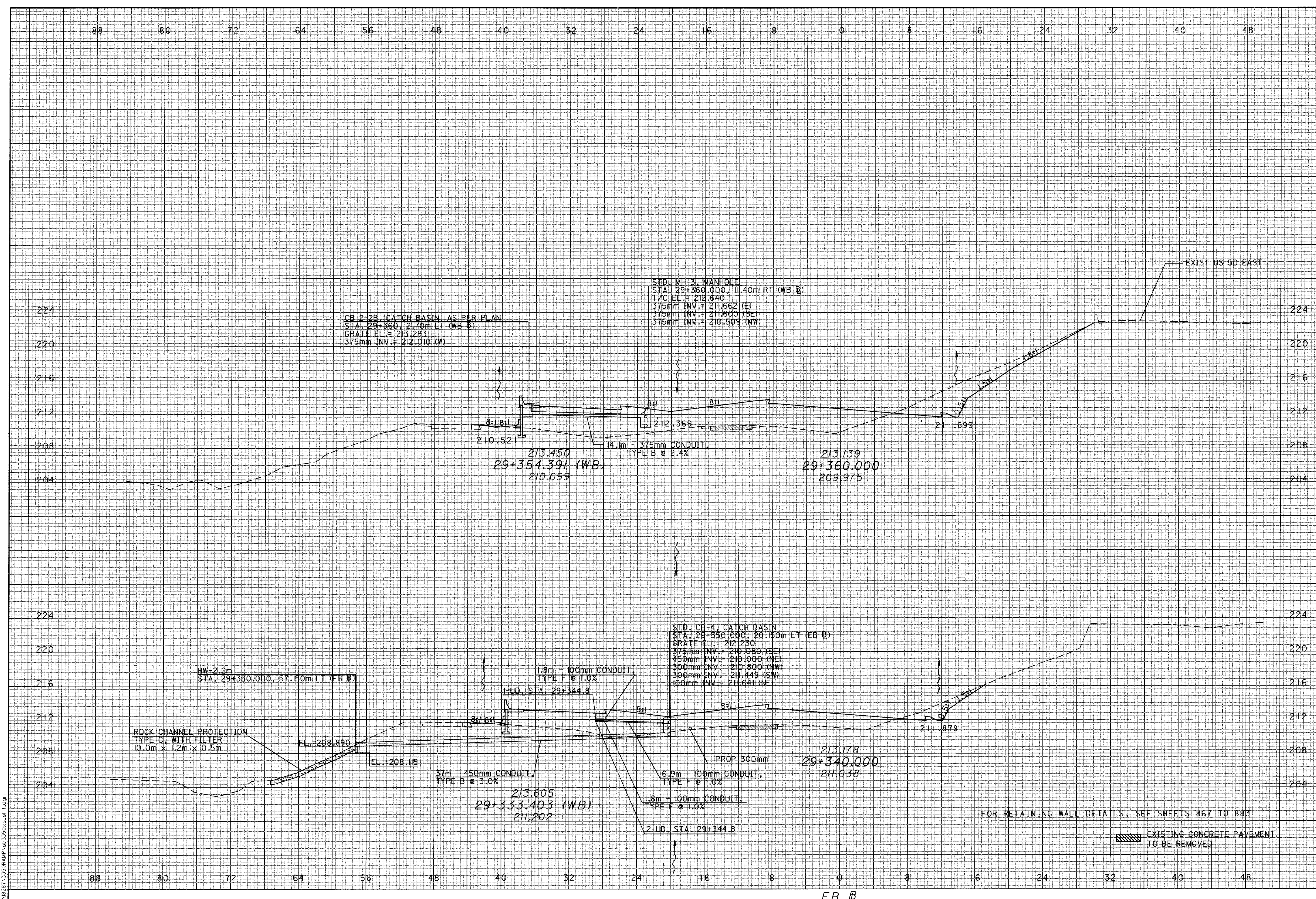


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CALCULATED  
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TAL

CROSS SECTIONS  
STA 29+340 TO STA 29+360

ATH-33-30.981



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EB @

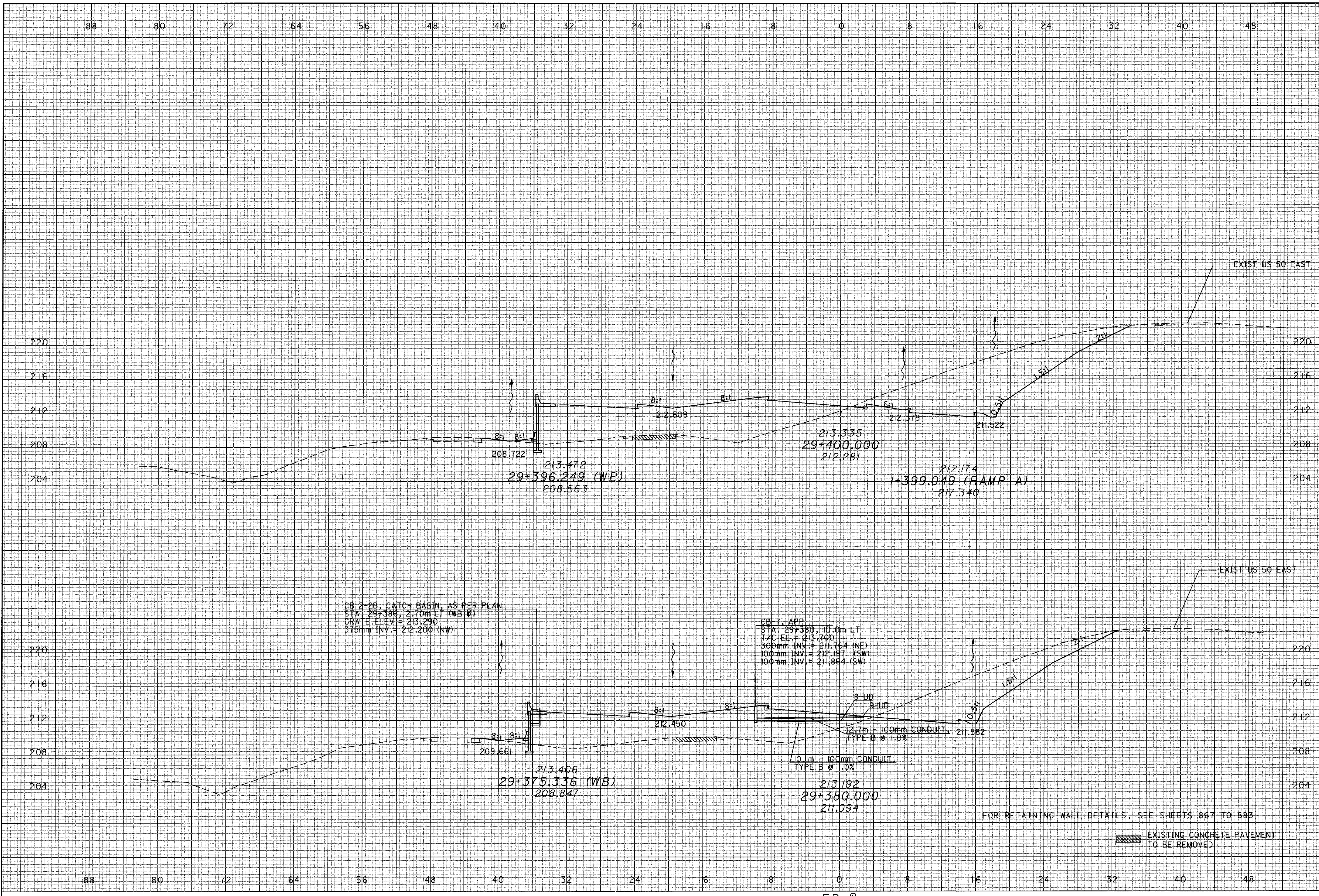


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PRS  
CHECKED  
TAL

CROSS SECTIONS  
STA 29+380 TO STA 29+400

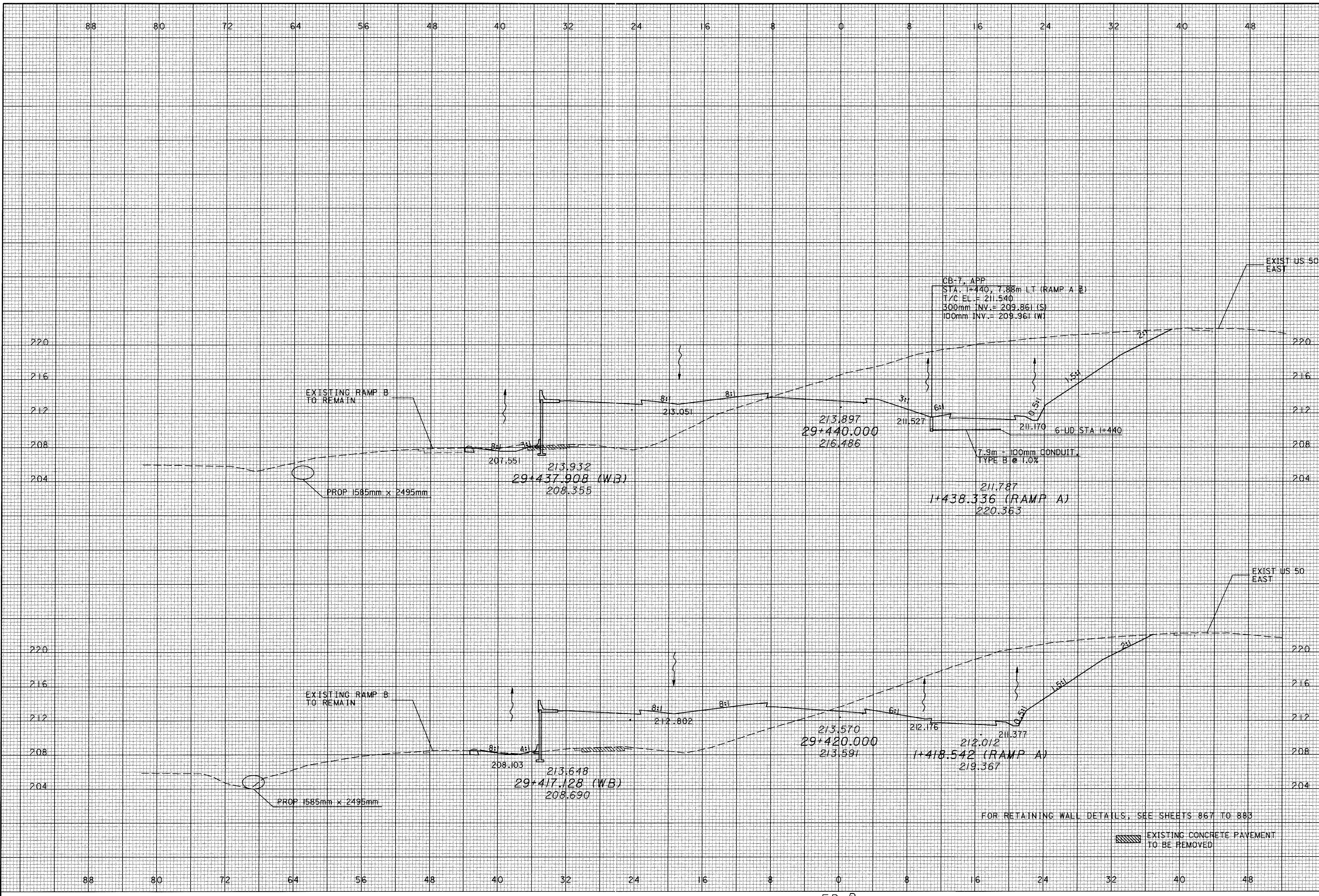
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196  
956



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EB @



FOR RETAINING WALL DETAILS, SEE SHEETS 867 TO 883

EXISTING CONCRETE PAVEMENT TO BE REMOVED

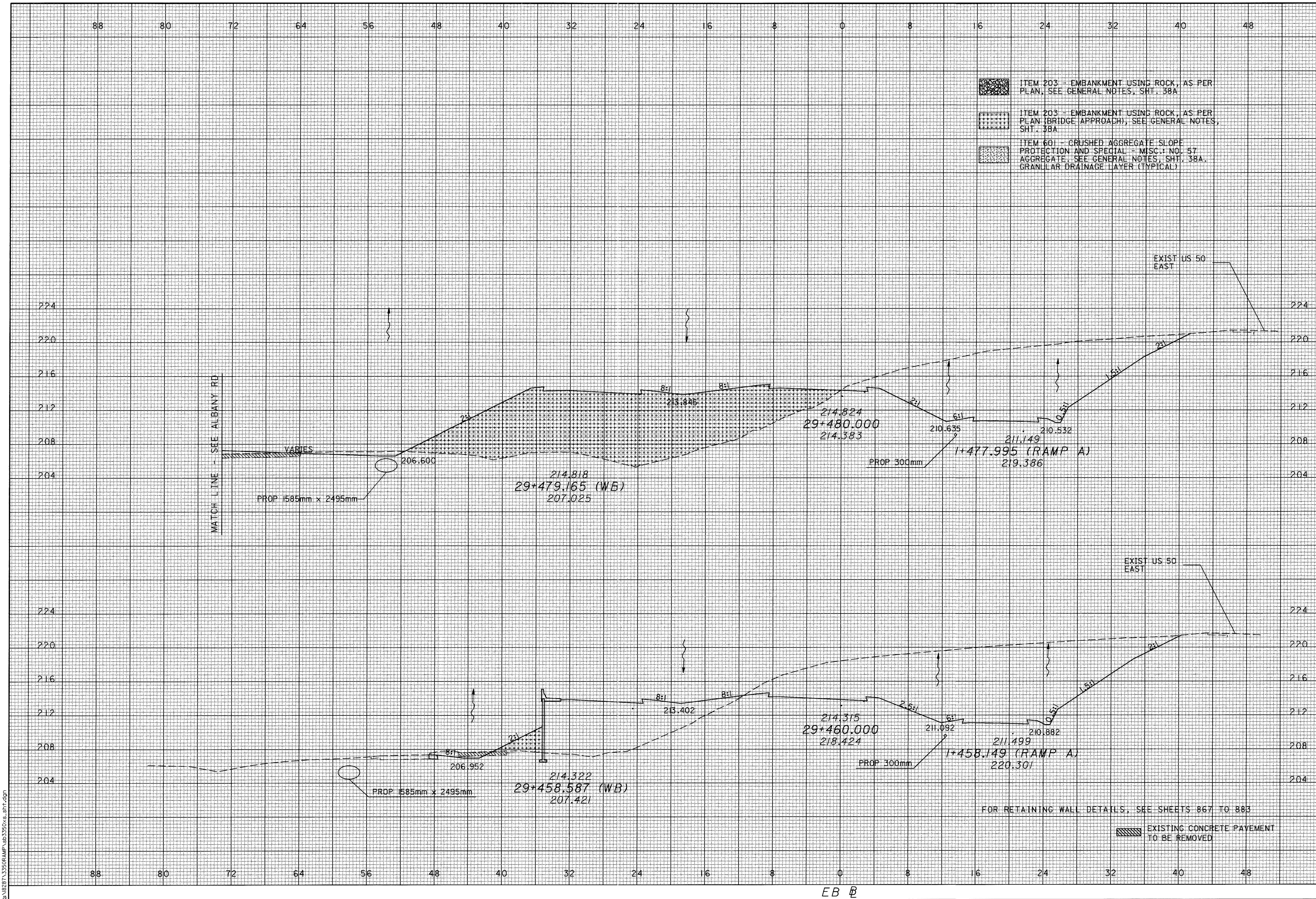
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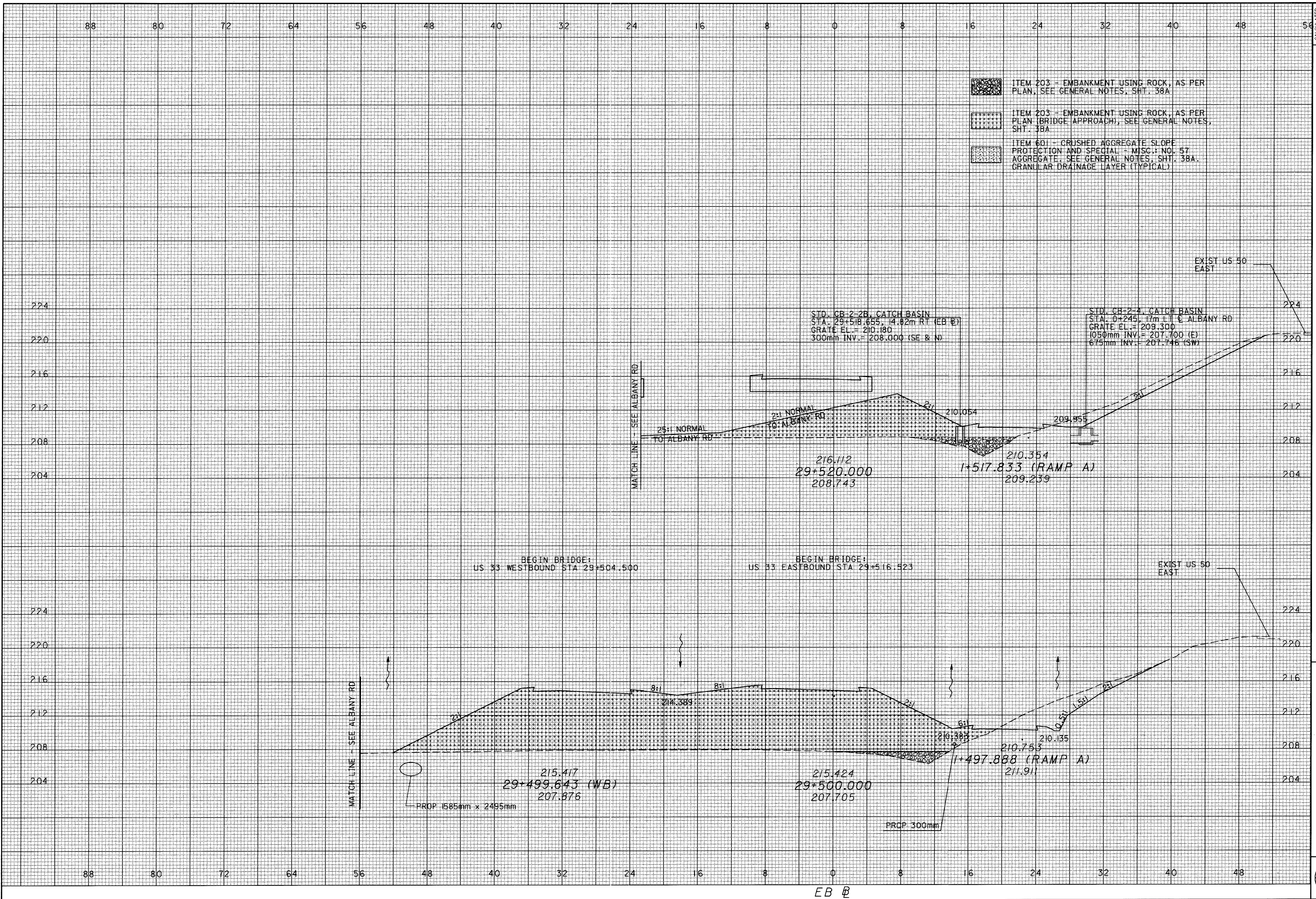
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CROSS SECTIONS  
STA 29+460 TO STA 29+480

ATH-33-30.981



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- ITEM 203 - EMBANKMENT USING ROCK, AS PER PLAN, SEE GENERAL NOTES, SHT. 38A
- ITEM 203 - EMBANKMENT USING ROCK, AS PER PLAN (BRIDGE APPROACH), SEE GENERAL NOTES, SHT. 38A
- ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION AND SPECIAL - MISC. NO. 57 AGGREGATE. SEE GENERAL NOTES, SHT. 38A. GRANULAR DRAINAGE LAYER (TYPICAL)

STD. CB-2-2B CATCH BASIN  
 STA: 29+518.655, 14.82m RT (EB @)  
 GRATE EL. = 210.180  
 300mm INV. = 208.000 (SE & N)

STD. CB-2-4 CATCH BASIN  
 STA: 0+245.17m LT @ ALBANY RD  
 GRATE EL. = 209.300  
 1050mm INV. = 207.700 (E)  
 675mm INV. = 207.746 (SW)

BEGIN BRIDGE:  
 US 33 WESTBOUND STA 29+504.500

BEGIN BRIDGE:  
 US 33 EASTBOUND STA 29+516.523

06 FEB 2001 18:46:51  
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