

CALCULATED
PRS
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AM

**TR 55 PLAN & PROFILE
STA 47+980 TO STA 48+230**

ATH-33-30.981

600
956

FOR ESTIMATED QUANTITIES,
SEE SHEET 602

FOR PAVEMENT CALCULATIONS,
SEE SHEET 76 TO 79

FOR DRIVE DETAILS SEE SHEET 657

FOR STRUCTURE DETAILS SEE
SHEETS 909-924

FOR DRIVE CULVERT DETAILS
SEE SHEET, 604 & 605

BRIDGE TERMINAL
ASSEM., TYPE I
STA. 48+223.180

BRIDGE TERMINAL
ASSEM., TYPE I
STA. 48+223.180

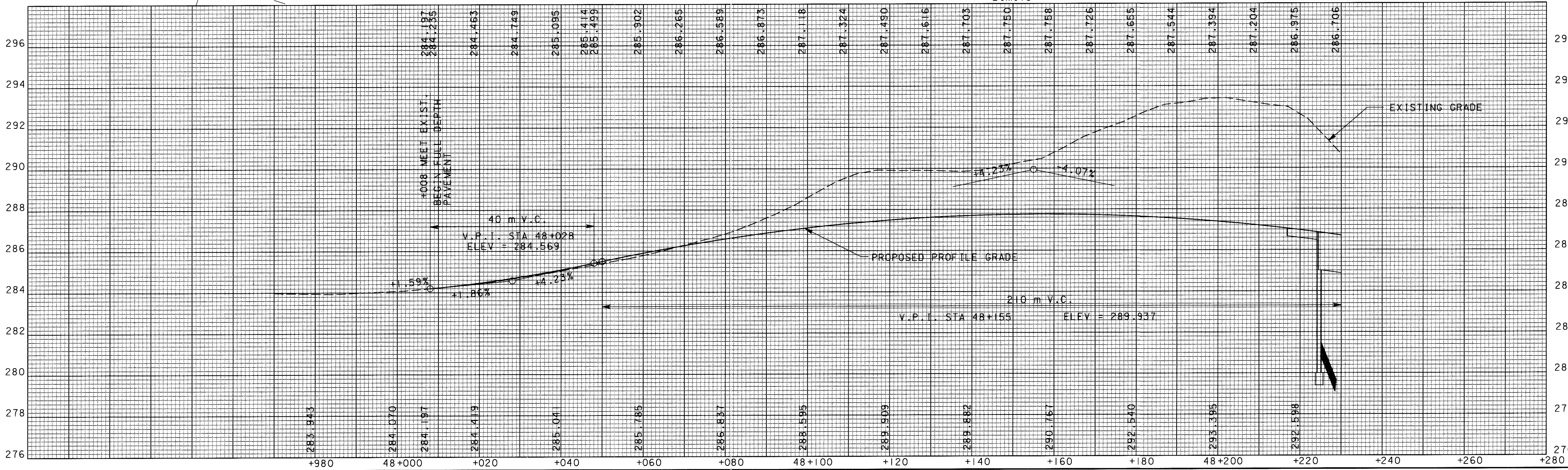
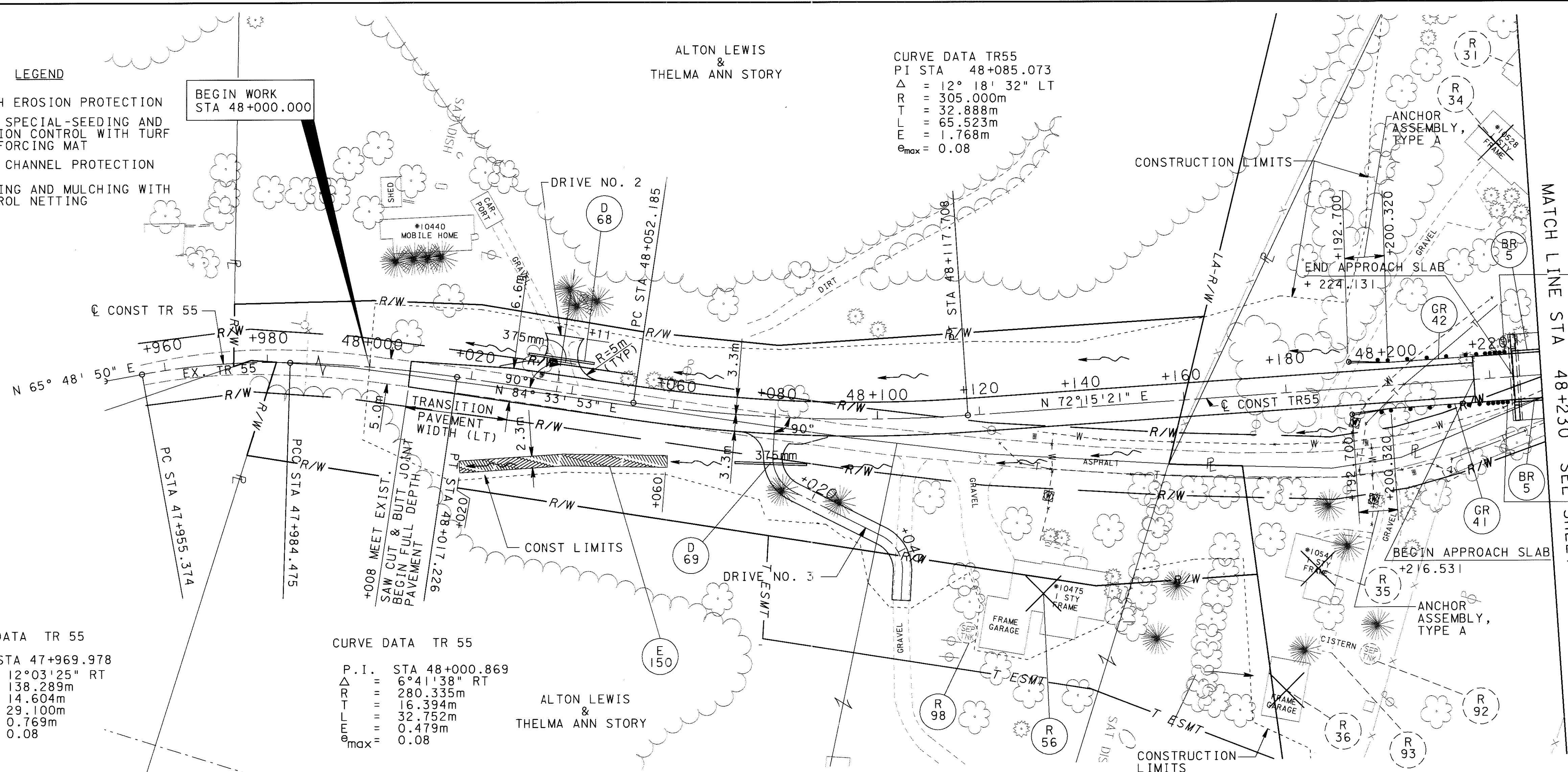
CURVE DATA TR55
PI STA 48+085.073
 $\Delta = 12^\circ 18' 32''$ LT
R = 305.000m
T = 32.888m
L = 65.523m
E = 1.768m
 $e_{max} = 0.08$

CURVE DATA TR 55
P.I. STA 48+000.869
 $\Delta = 6^\circ 41' 38''$ RT
R = 280.335m
T = 16.394m
L = 32.752m
E = 0.479m
 $e_{max} = 0.08$

CURVE DATA TR 55
P.I. STA 47+969.978
 $\Delta = 12^\circ 03' 25''$ RT
R = 138.289m
T = 14.604m
L = 29.100m
E = 0.769m
 $e_{max} = 0.08$

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

BEGIN WORK
STA 48+000.000



16 APR 2001 15:33:05
at:0828\TR55.dgn

LEGEND

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



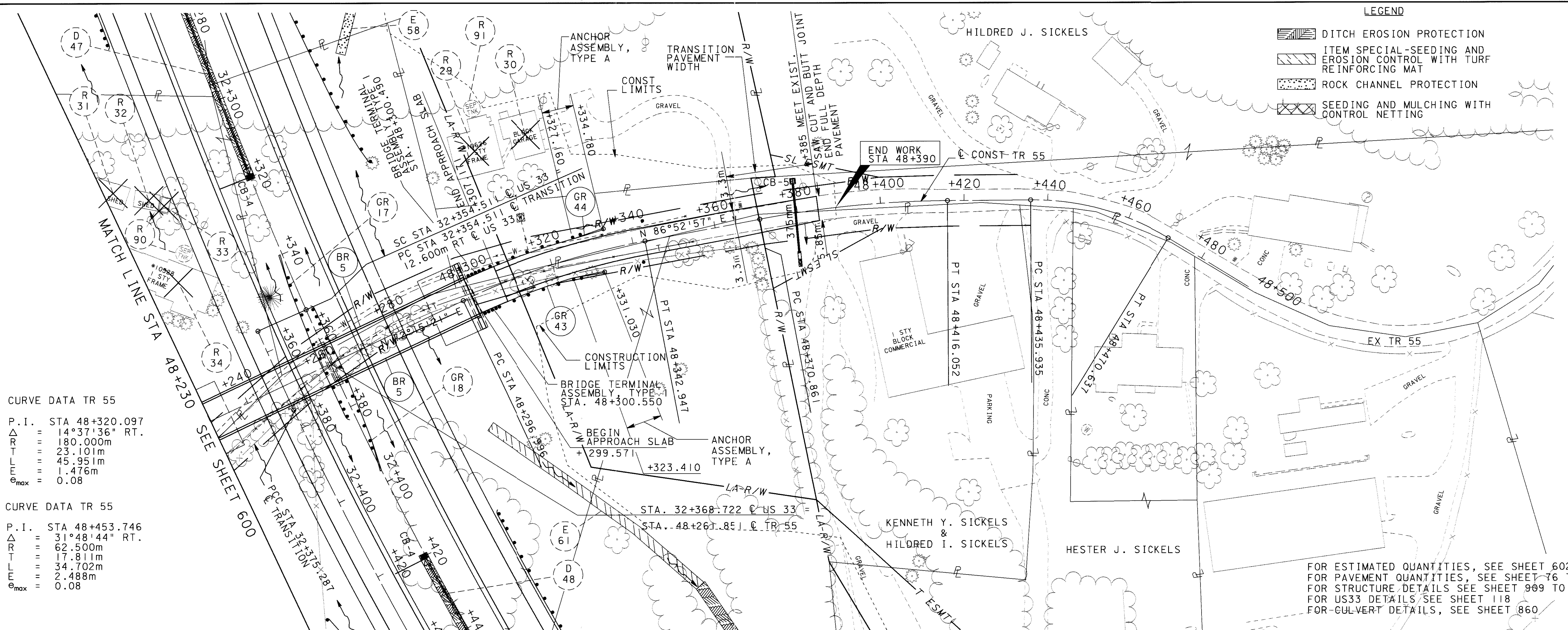
20
1500
HORIZONTAL
SCALE IN METERS

CALCULATED
PRS
CHECKED
AM

TR 55 PLAN & PROFILE
STA 48+230 TO STA 48+530.470

ATH-33-30.981

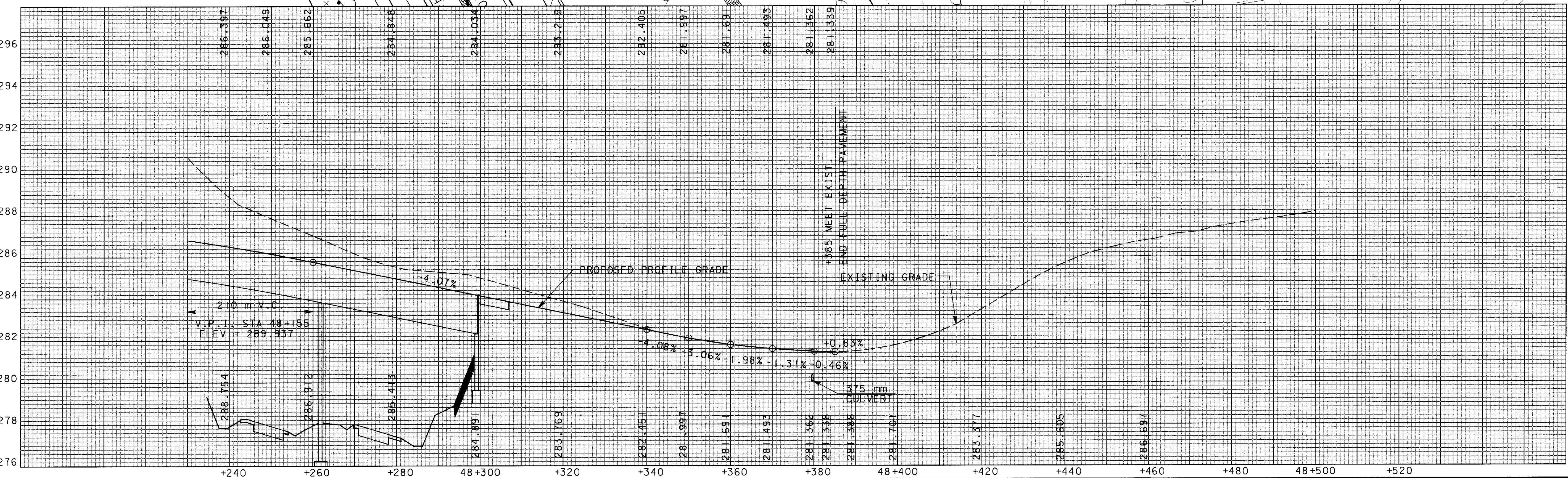
601
956



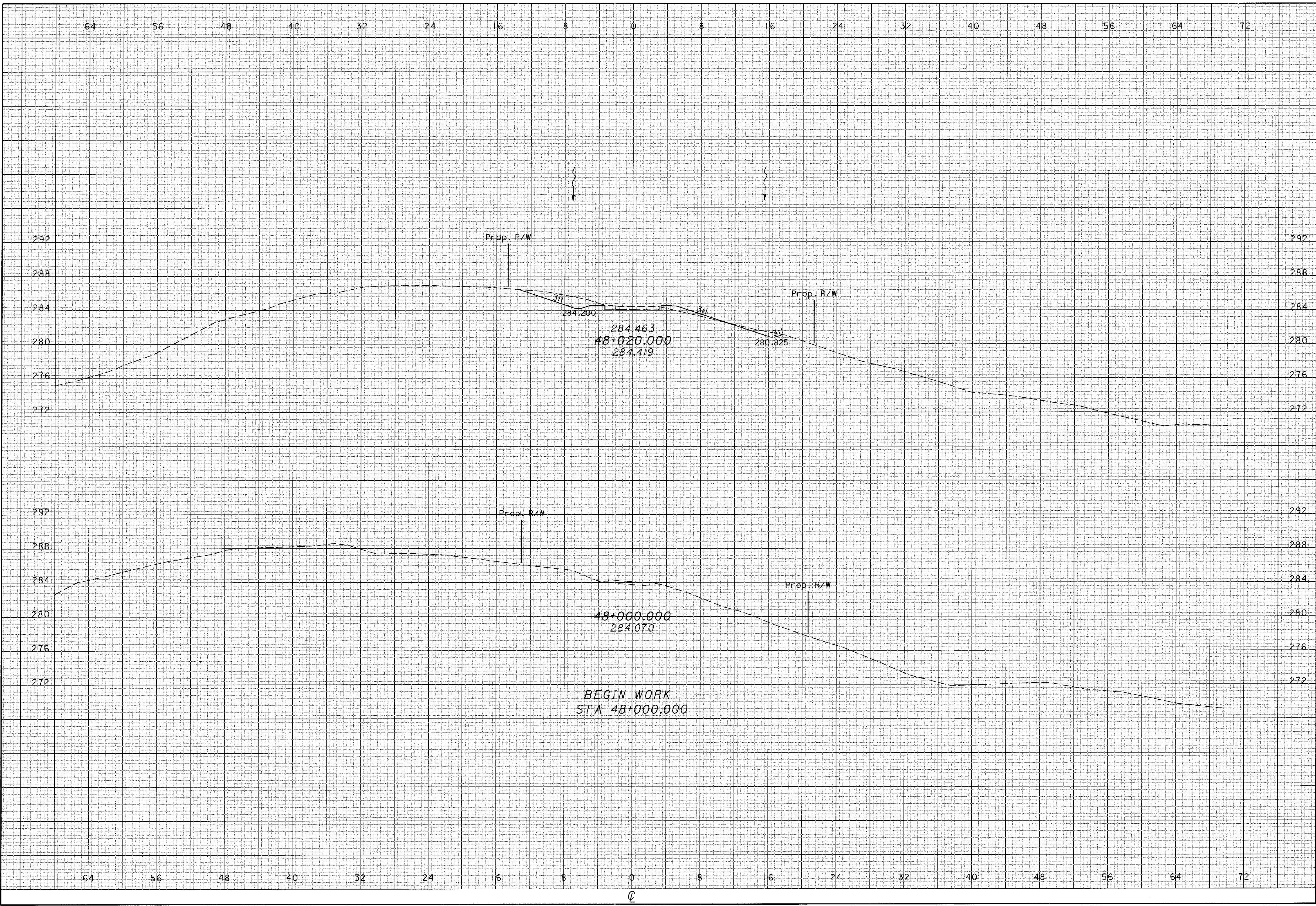
CURVE DATA TR 55
 P.I. STA 48+320.097
 Δ = 14°37'36" RT.
 R = 180.000m
 T = 23.101m
 L = 45.951m
 E = 1.476m
 e_{max} = 0.08

CURVE DATA TR 55
 P.I. STA 48+453.746
 Δ = 31°48'44" RT.
 R = 62.500m
 T = 17.811m
 L = 34.702m
 E = 2.488m
 e_{max} = 0.08

FOR ESTIMATED QUANTITIES, SEE SHEET 602
 FOR PAVEMENT QUANTITIES, SEE SHEET 76 TO 79
 FOR STRUCTURE DETAILS SEE SHEET 909 TO 924
 FOR US33 DETAILS, SEE SHEET 118
 FOR GULVERT DETAILS, SEE SHEET 860



15 JAN 2001 15:05:16
C:\MSD97\155\03\6_sht.dgn



CALCULATED
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CHECKED
TAL

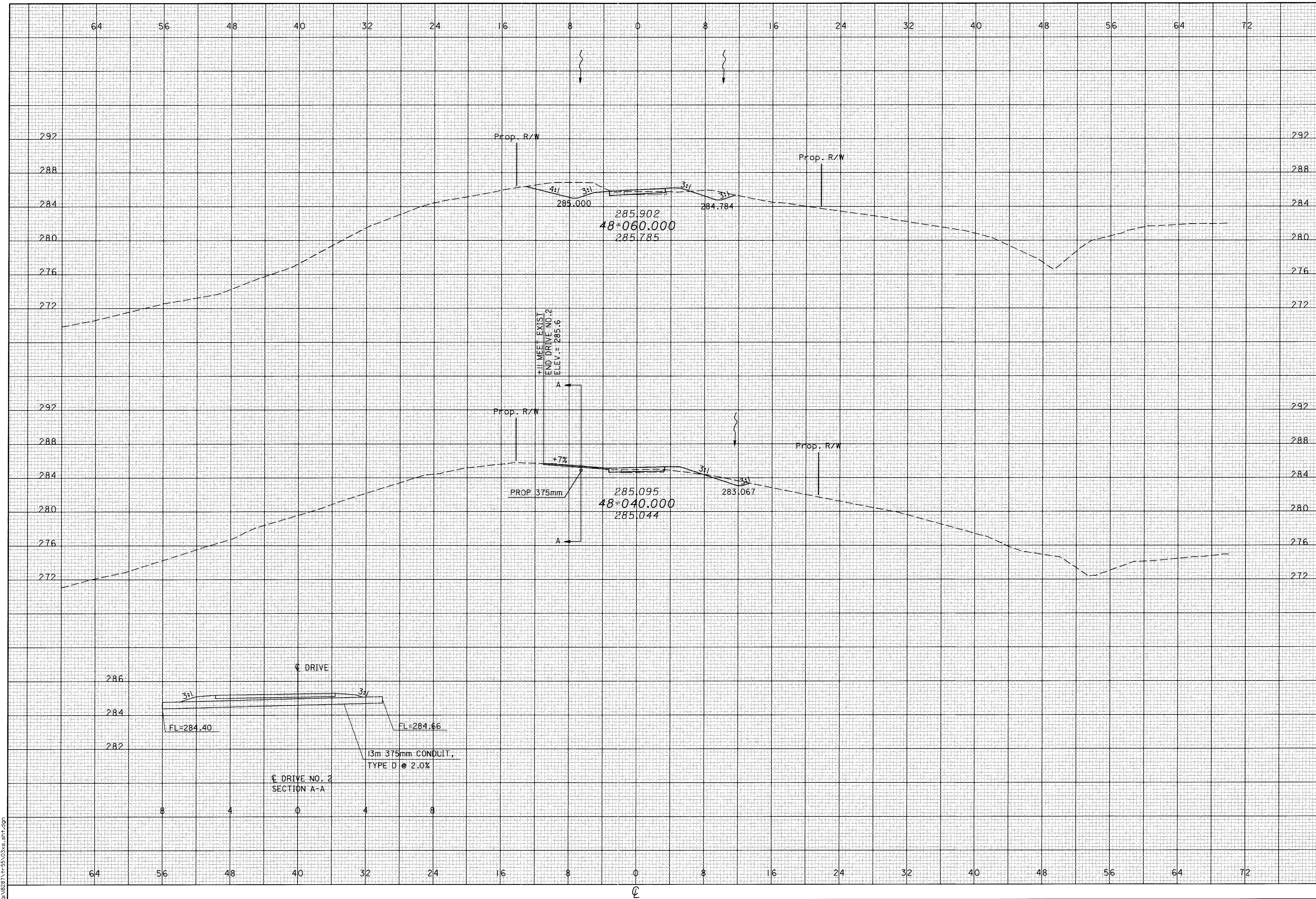
CROSS SECTIONS
TR 55 - STA 48+000 TO STA 48+020

ATH-33-30.981

603
956

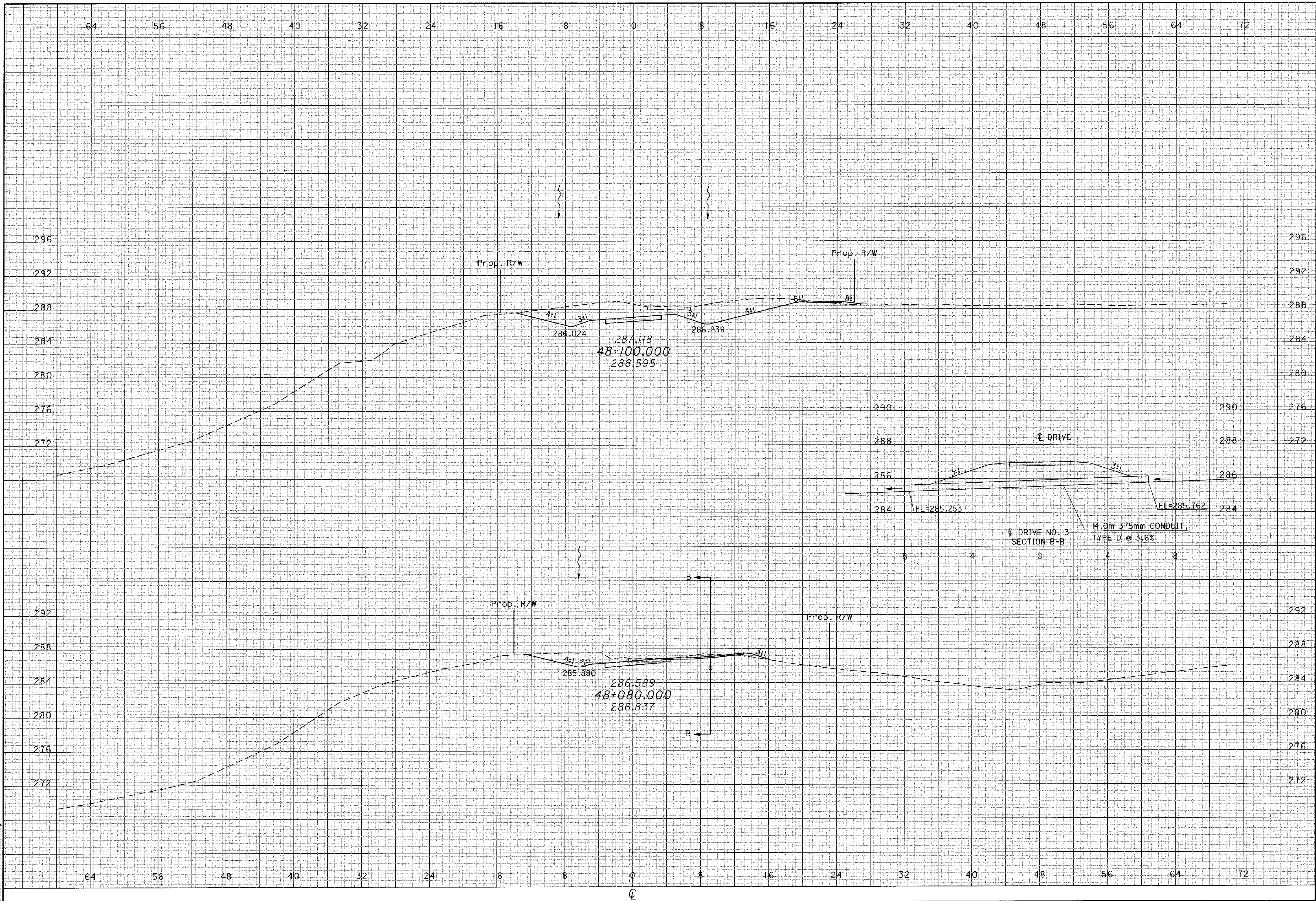
CROSS SECTIONS
 TR 55 - STA 48+040 TO STA 48+060

ATH-33-30.981



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16 JAN 2001 15:03:48
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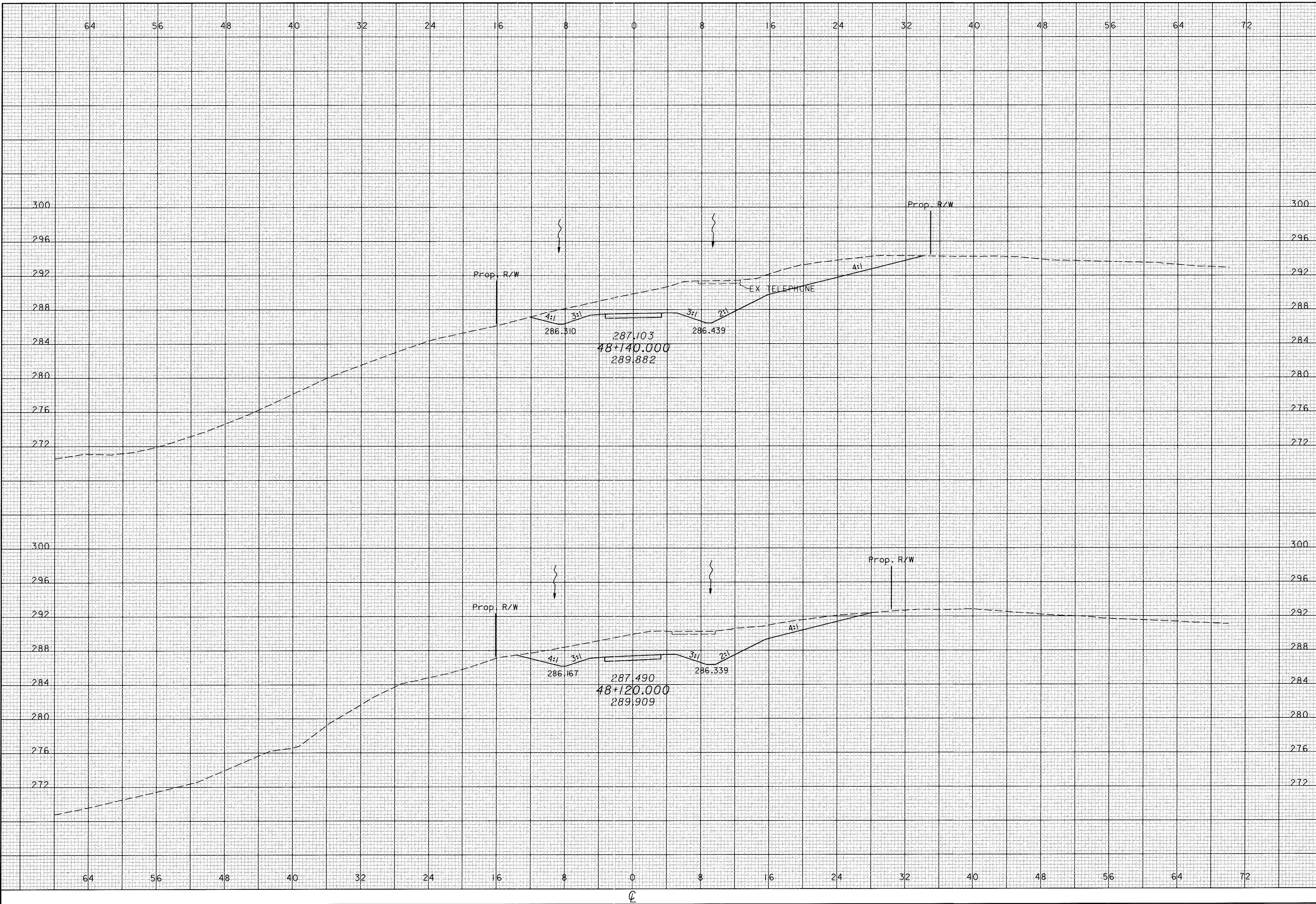


CROSS SECTIONS
TR 55 - STA 48+080 TO STA 48+100

ATH-33-30.981

CALCULATED
PRS
CHECKED
TAL

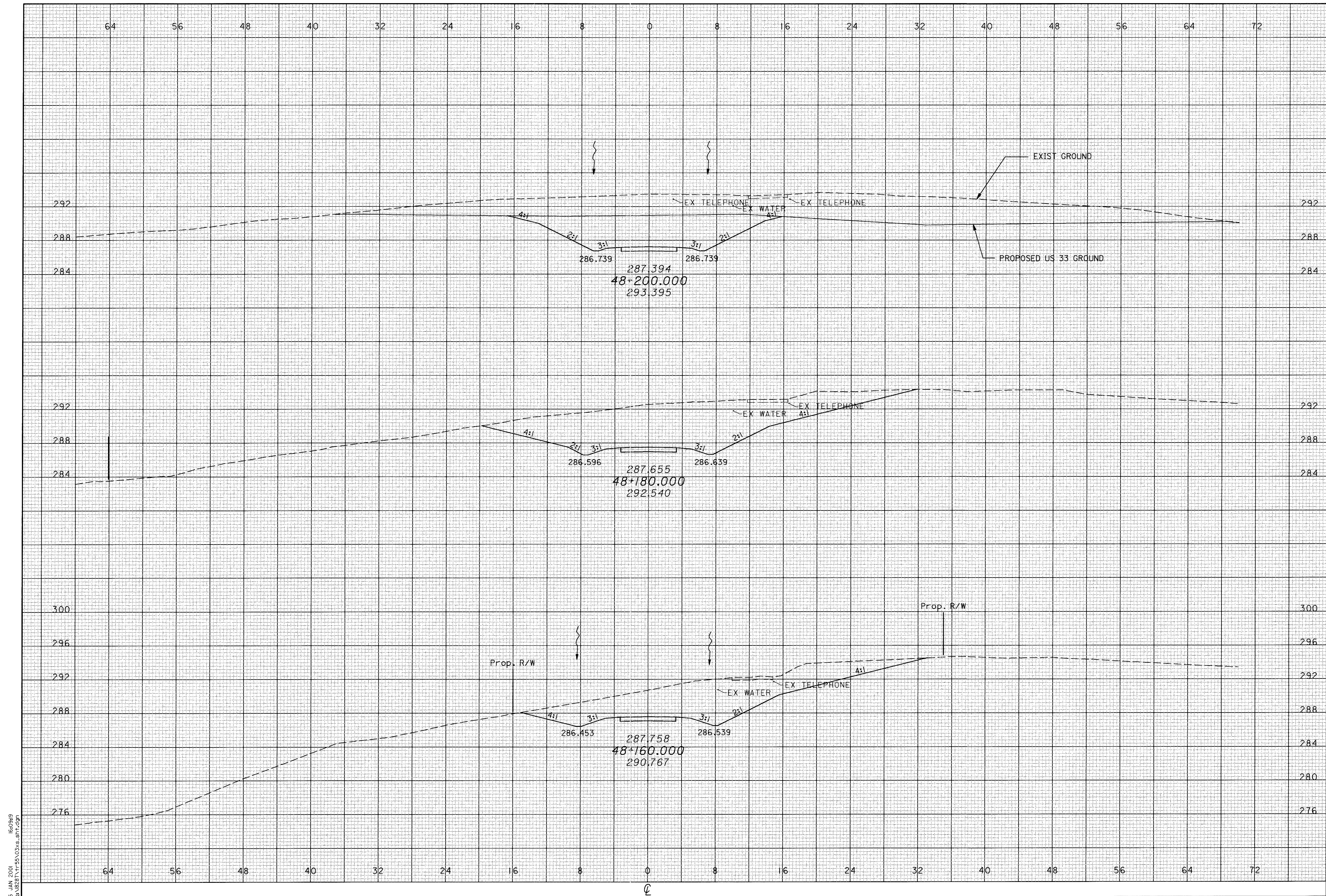
605
956



CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
TR 55 - STA 48+120 TO STA 48+140

ATH-33-30.981

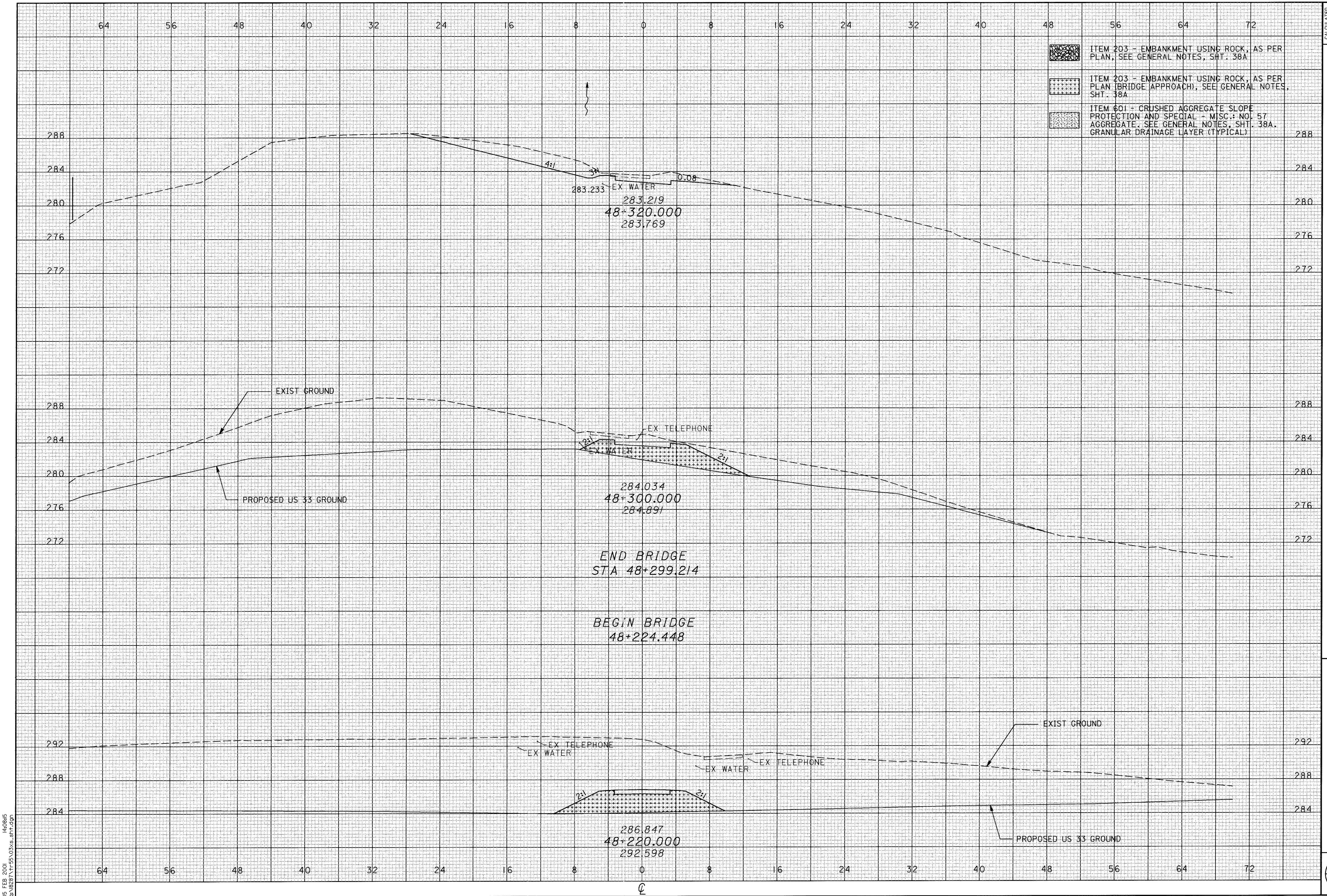


CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
TR 55 - STA 48+160 TO STA 48+200

ATH-33-30.981

16 JAN 2001 15:09:19
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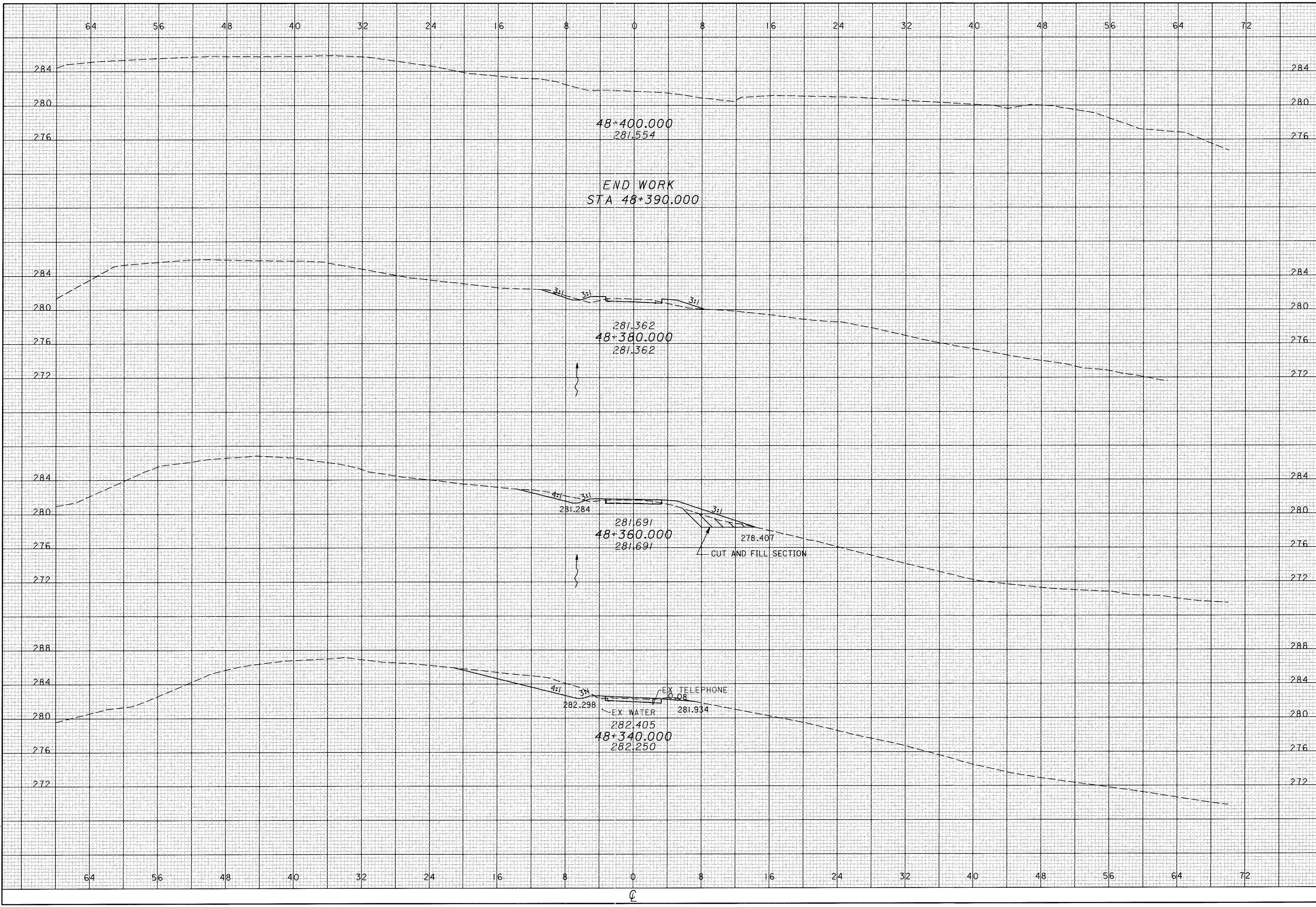
CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
TR 55 - STA 48+220 TO STA 48+320

ATH-33-30.981

608
956

05 FEB 2001 14:08:15
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CALCULATED
PPS
CHECKED
TAL

**CROSS SECTIONS
TR 55 - STA 48+340 TO STA 48+400**

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

BEGIN WORK
STA 3+003.000

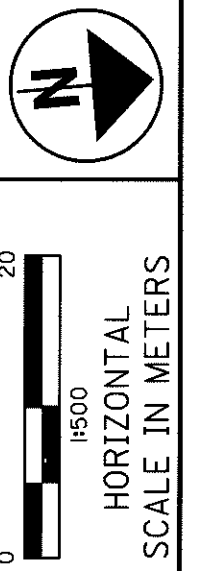
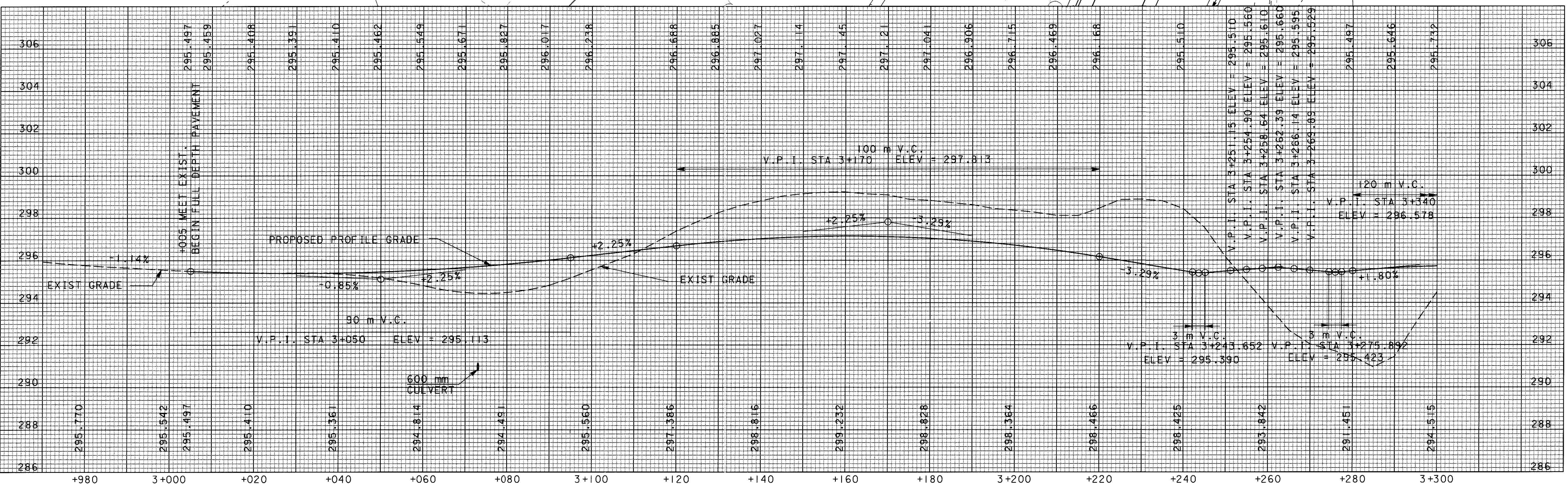
PAUL J. GOLDZUNG
&
MARY E. GOLDZUNG

CURVE DATA CR 21

P.I. = STA 3+077.021
 Δ = 30°23'04" LT.
 RT = 120.000m
 L = 32.586m
 E = 63.637m
 e = 4.346m
 e_{max} = 0.08

CURVE DATA CR 21

P.I. = STA 3+189.057
 Δ = 24°26'28" RT.
 RT = 120.000m
 L = 25.990m
 E = 51.189m
 e = 2.782m
 N/C



CALCULATED
PRS
CHECKED
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**CR 21 PLAN & PROFILE
STA 3+000 TO STA 3+300**

ATH-33-30.981


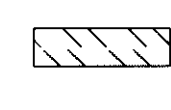

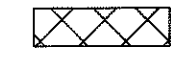
611
956

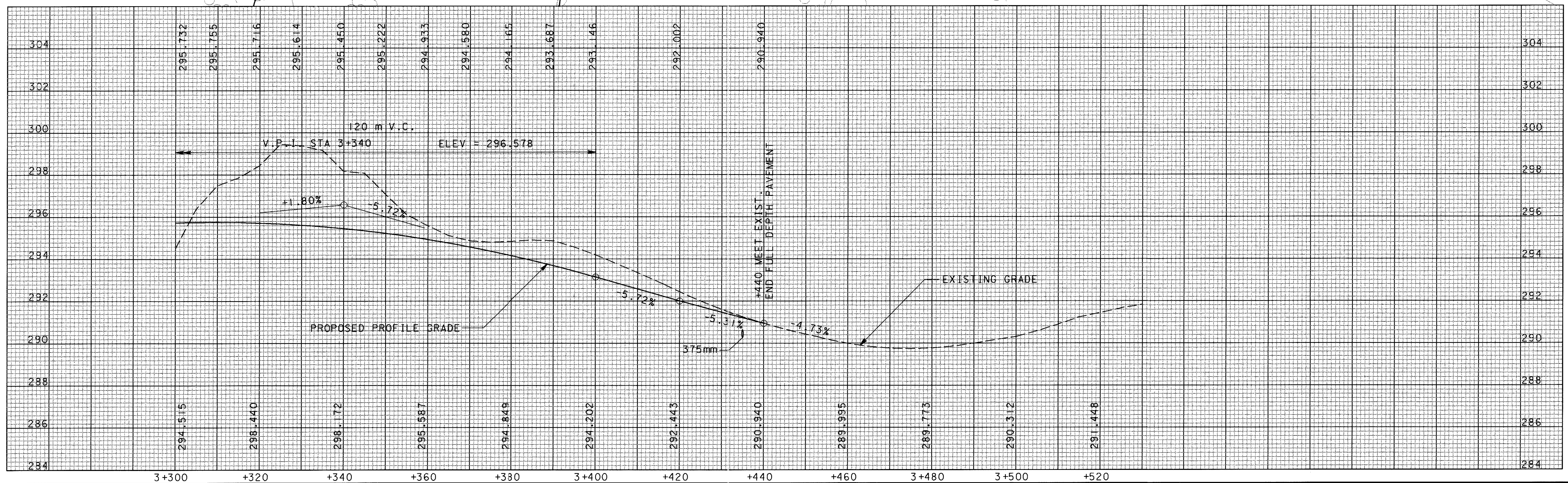
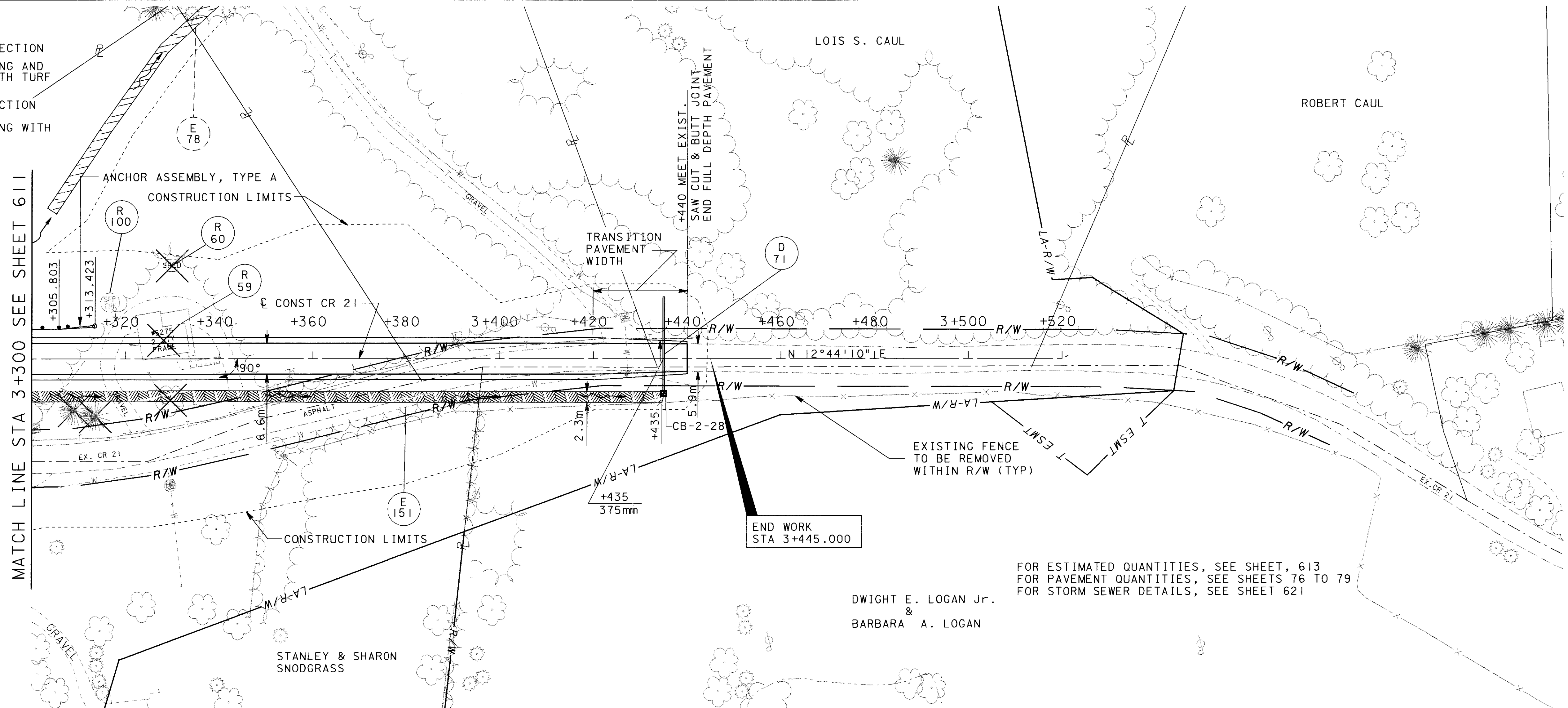
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FOR DRIVEWAY DETAILS, SEE SHEET 658
 FOR INTERSECTION DETAILS, SEE SHEET 698 AND 703
 FOR CULVERT DETAILS, SEE SHEET 861
 FOR ESTIMATED QUANTITIES, SEE SHEET 613
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
 FOR DRIVEWAY CULVERT, SEE SHEET 615
 FOR US 33 DETAILS, SEE SHEET 126
 FOR DRIVE NO. 4 CROSS SECTIONS AND EARTHWORK QUANTITIES, SEE SHEETS 661 TO 665

MATCH LINE STA 3+300 SEE SHEET 612

LEGEND

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



20 JUN 2001 08:40:37
g:\18287\cr21\plan2.dgn

CALCULATED
PRS
CHECKED
AM

0 1500 20
HORIZONTAL
SCALE IN METERS

CR 21 PLAN & PROFILE
STA 3+300 TO STA 3+520.000

ATH-033-30.980

REF NO.	SHEET NO.	STATION		SIDE	202	202	603	603	604	670												
		FROM	TO		BUILDING DEMOLISHED	SEPTIC TANK REMOVED	375mm CONDUIT, TYPE D	375mm CONDUIT, TYPE B	CATCH BASIN 2-2B	DITCH EROSION PROTECTION	EACH	EACH	METER	METER	EACH	SQ. METER						
R57	611	3+050.000		RT	1																	
R58	611	3+069.000		RT	1																	
R59	612	3+328.000		LT	1																	
R60	612	3+331.000		LT	1																	
D70	611	3+100		LT			14															
D71	612	3+435		LT&RT				22.5	1													
E151	612	3+300.000	3+435.000	RT						310.5												
R99	611	3+050		RT		1																
R100	612	3+320		LT		1																
TOTALS CARRIED TO ROADWAY SUBSUMMARY					4	2	14	22.5	1	310.5												

ESTIMATED QUANTITIES
CR 21

ATH-33-30.981

CALCULATED
AML
CHECKED
AM

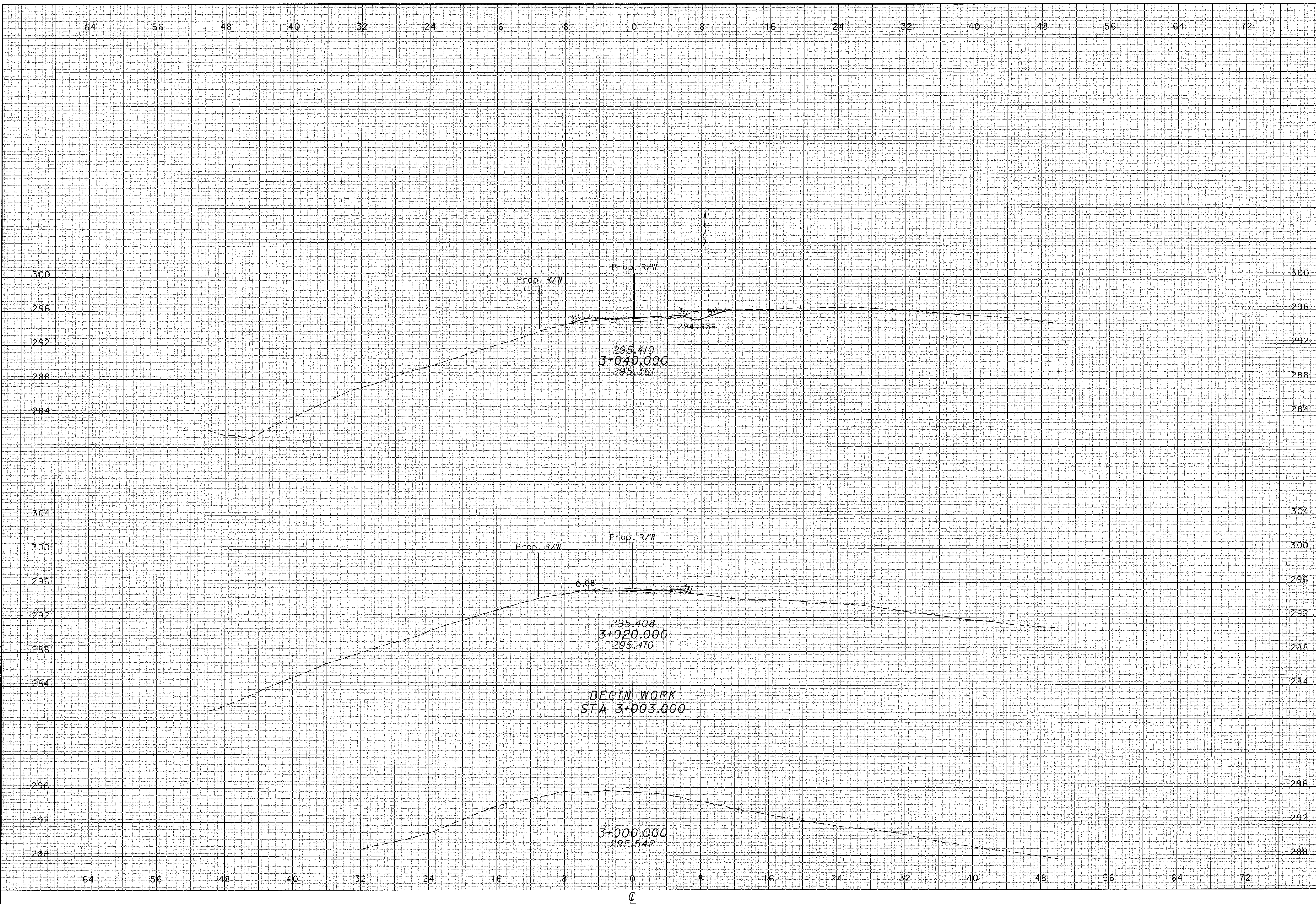
613
956

CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 21 - STA 3+000 TO 3+040

ATH-33-30.981

614
956



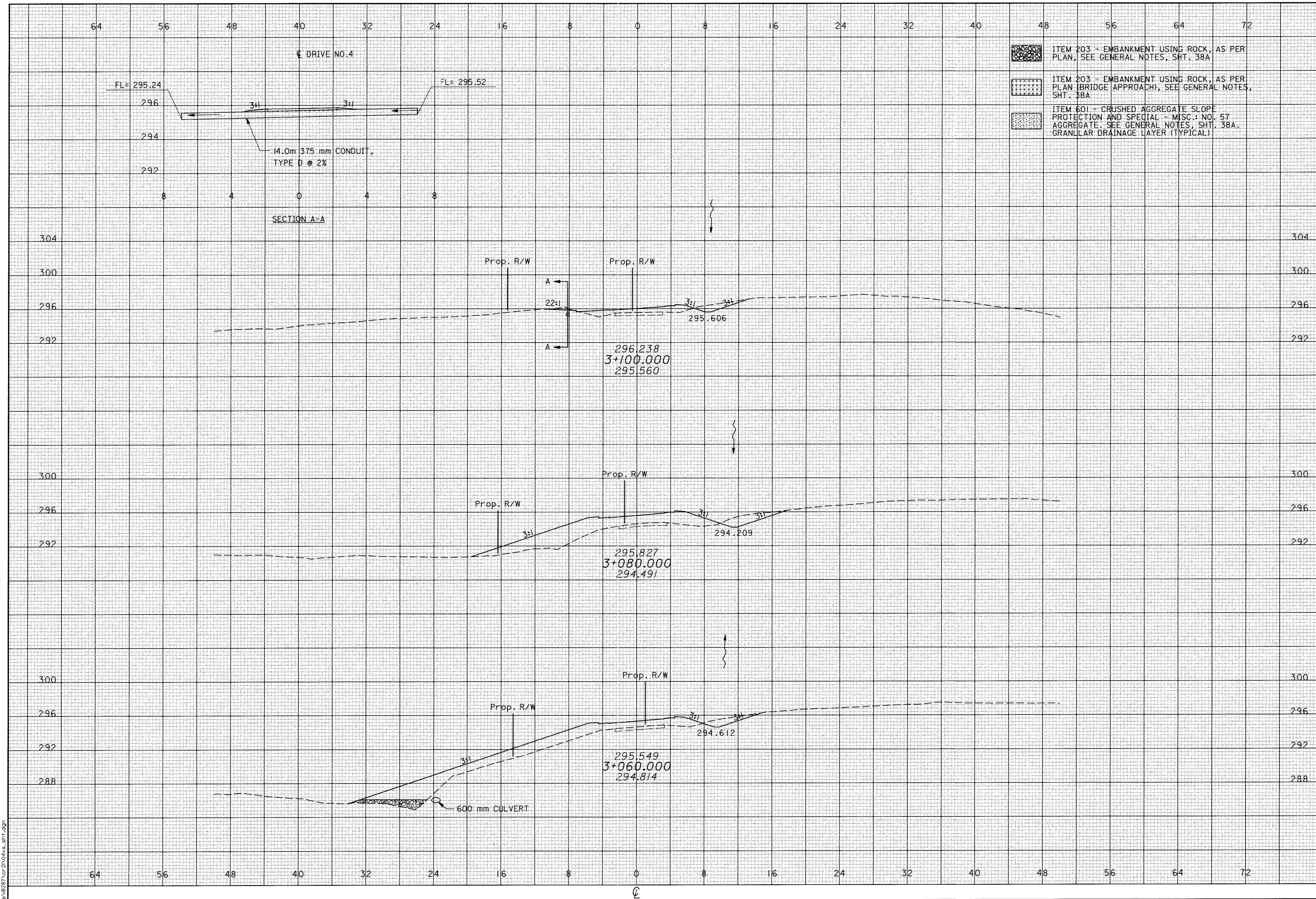
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CALCULATED
TAL
CHECKED
PKS

CROSS SECTIONS
CR 21 - STA 3+060 TO 3+100

ATH-33-30.981

615
956



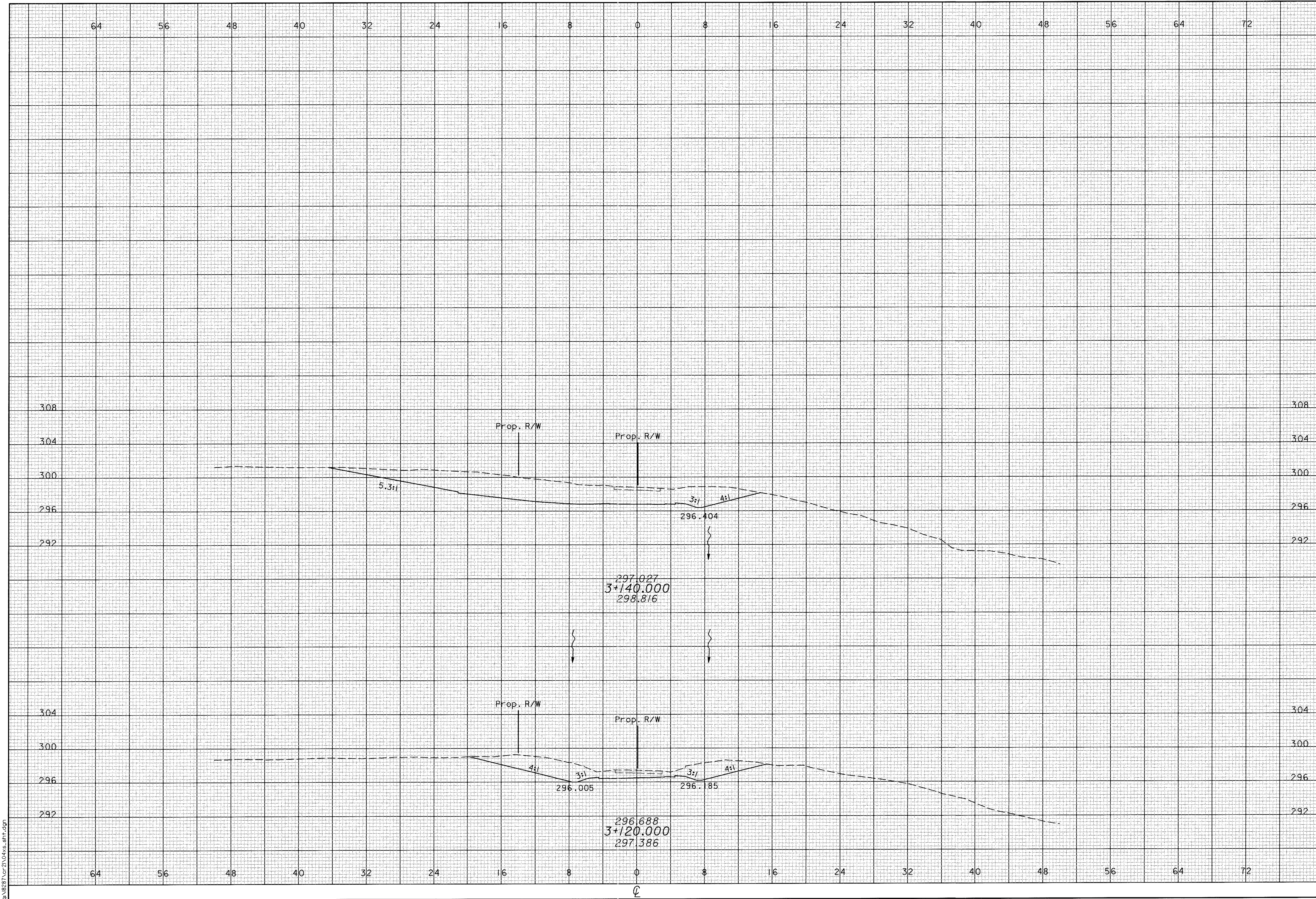
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 21 - STA 3+120 TO 3+140

ATH-33-30.981

616
956



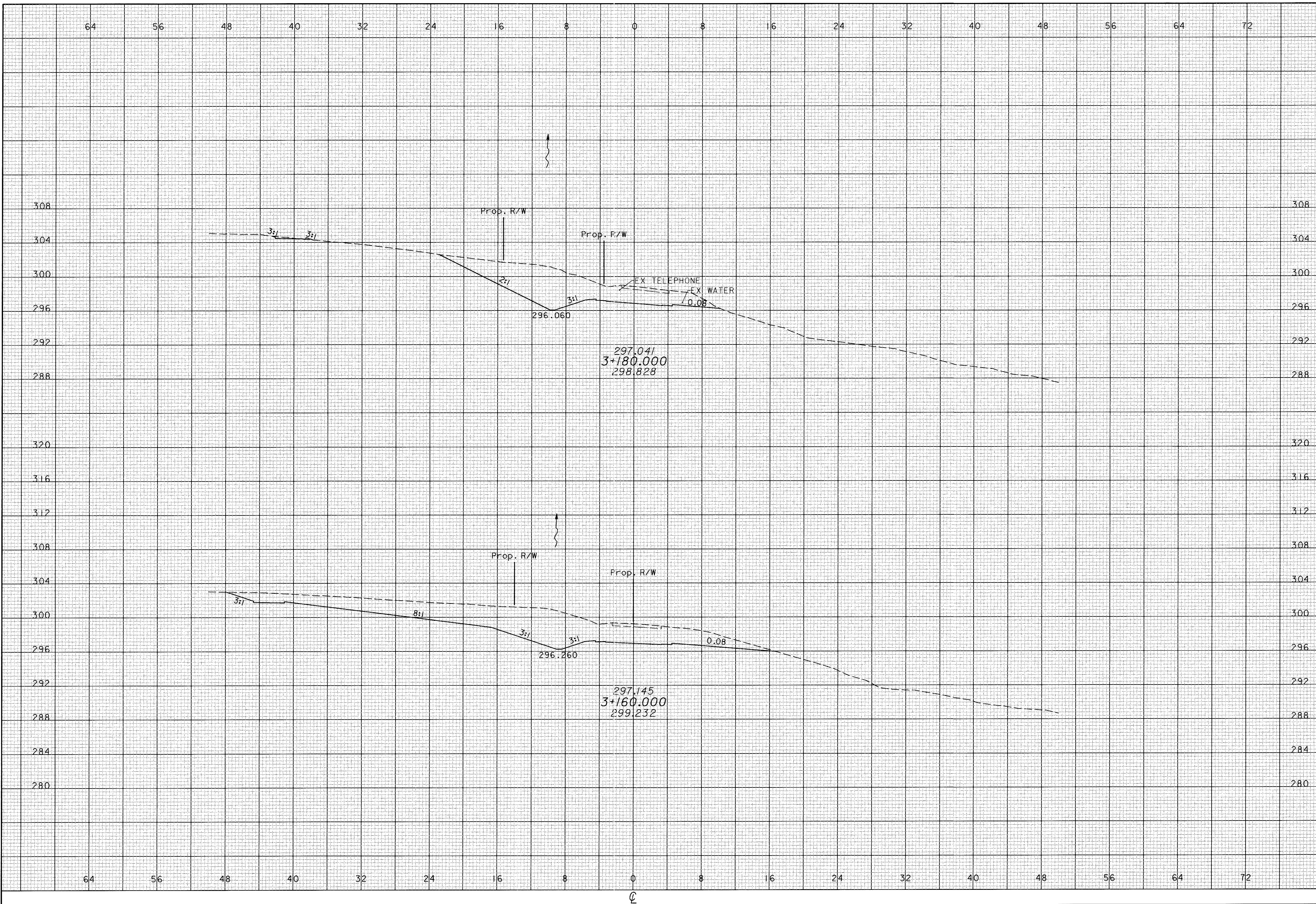
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 21 - STA 3+160 TO 3+180

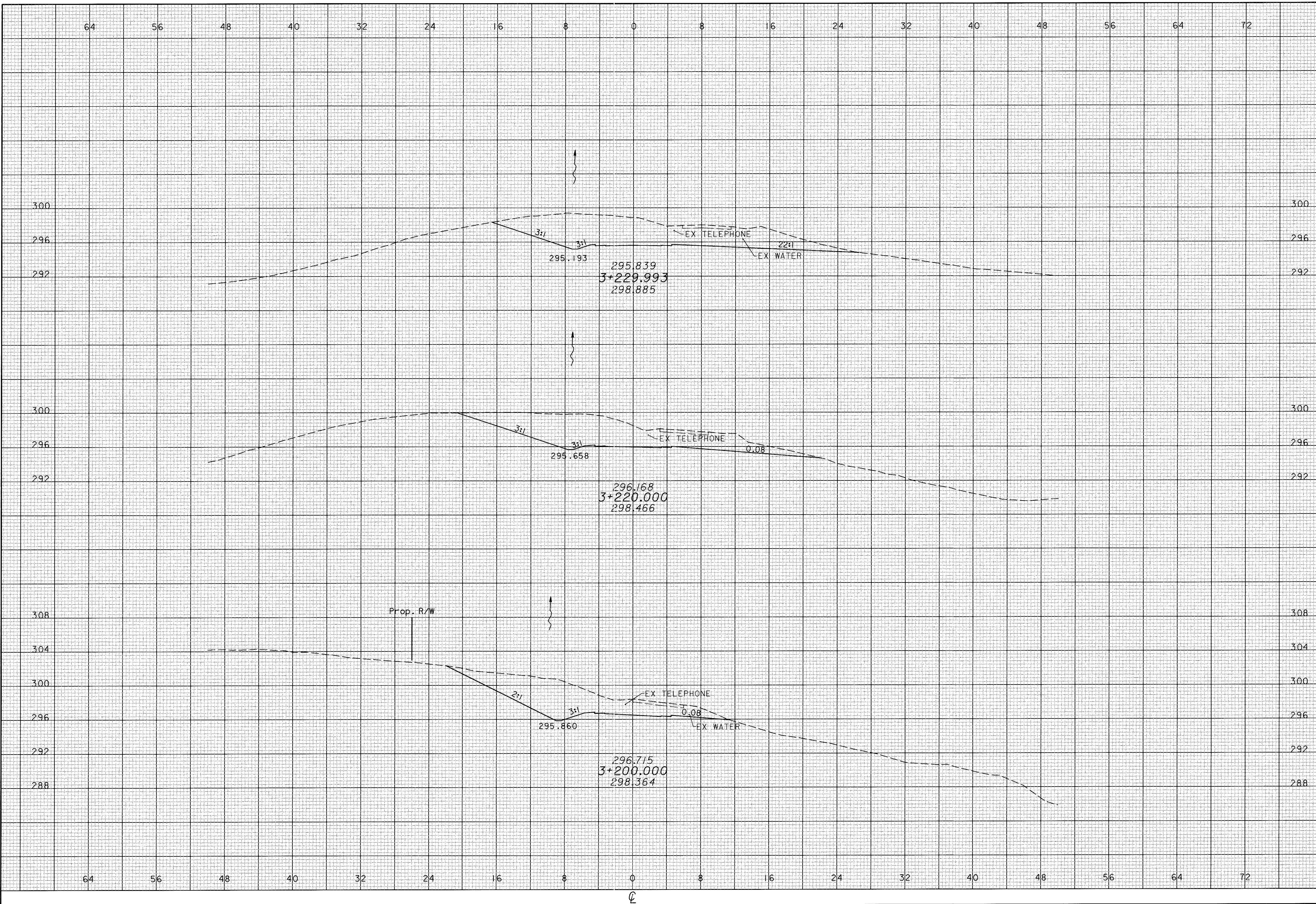
ATH-33-30.981

617
956



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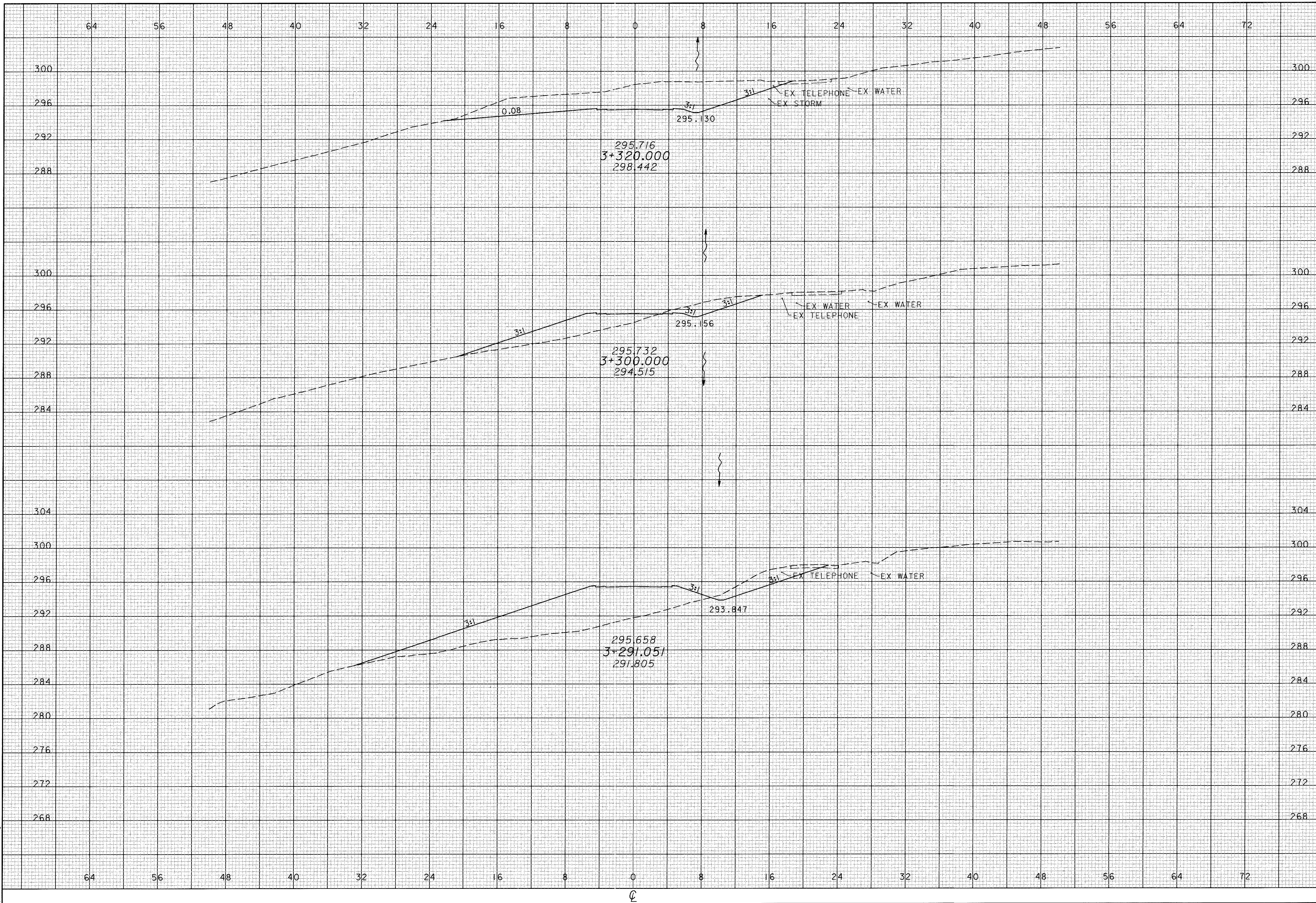
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 21 - STA 3+200 TO 3+229.993

ATH-33-30.981

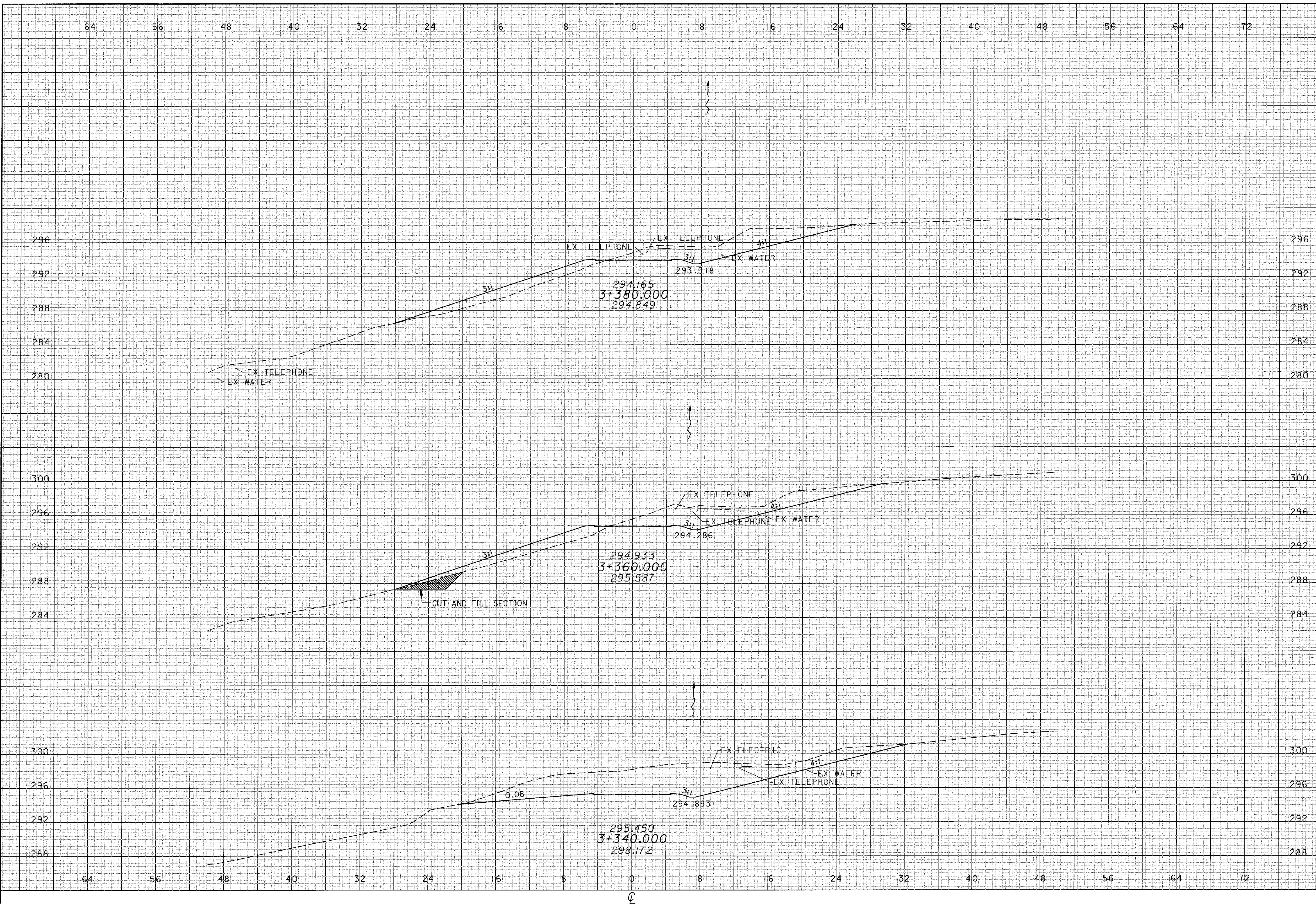


CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 21 - STA 3+291.051 TO 3+320

ATH-33-30.981

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CALCULATED
TAL
CHECKED
PRS

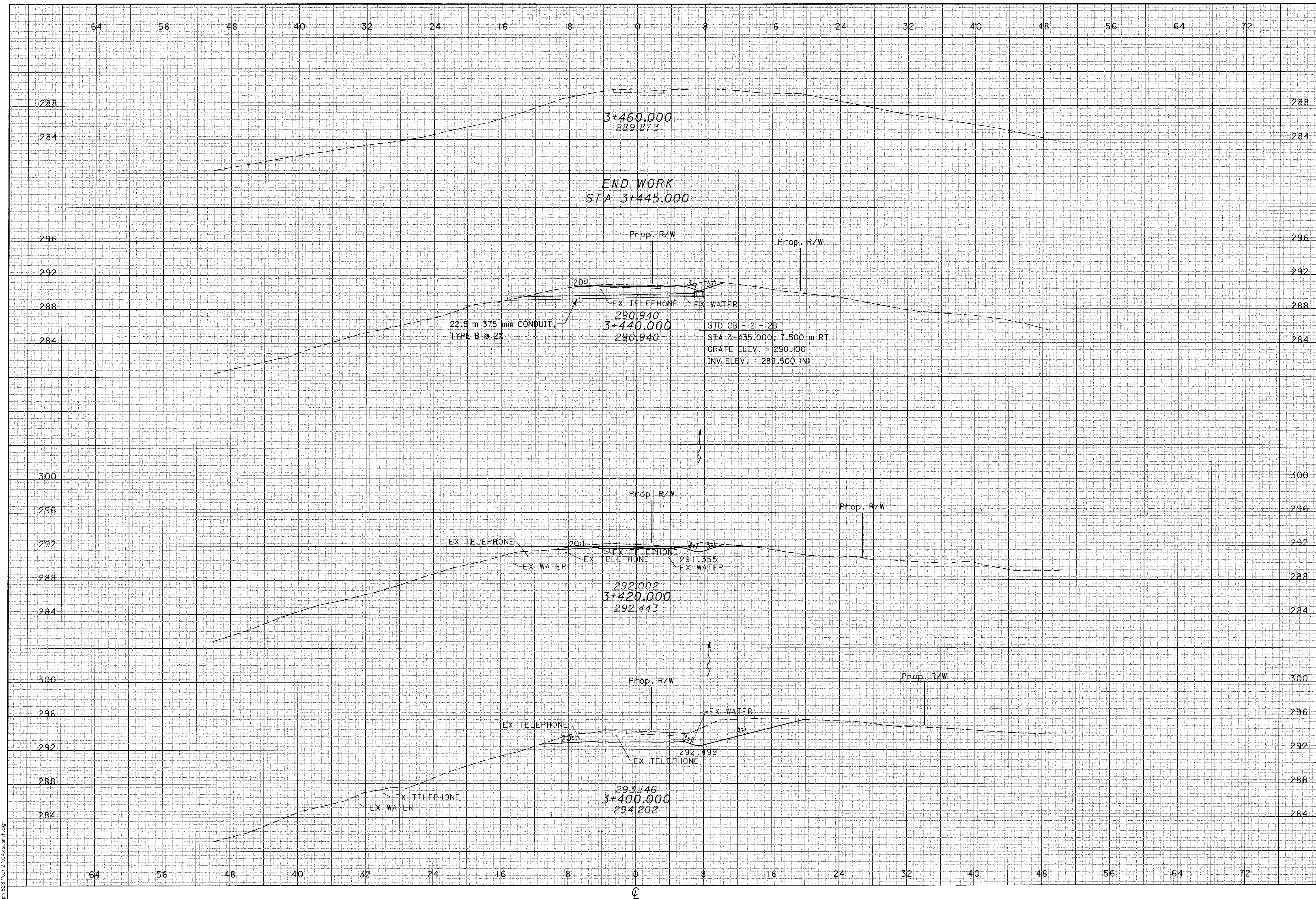
CROSS SECTIONS
CR 21 - STA 3+340 TO 3+380

ATH-33-30.981

620
956

CROSS SECTIONS
CR 21 - STA 3+400 TO 3+440

ATH-33-30.981



16 JAN 2001 16:03:27
 CR 21 CR 21\CR 21\CR 21.dgn



CURVE DATA TR 64
 P.I. STA 49+313.067
 RT. = 14° 18' 08"
 L.T. = 305.000m
 T = 38.266m
 E = 16.134m
 max = 2.391m
 0.08

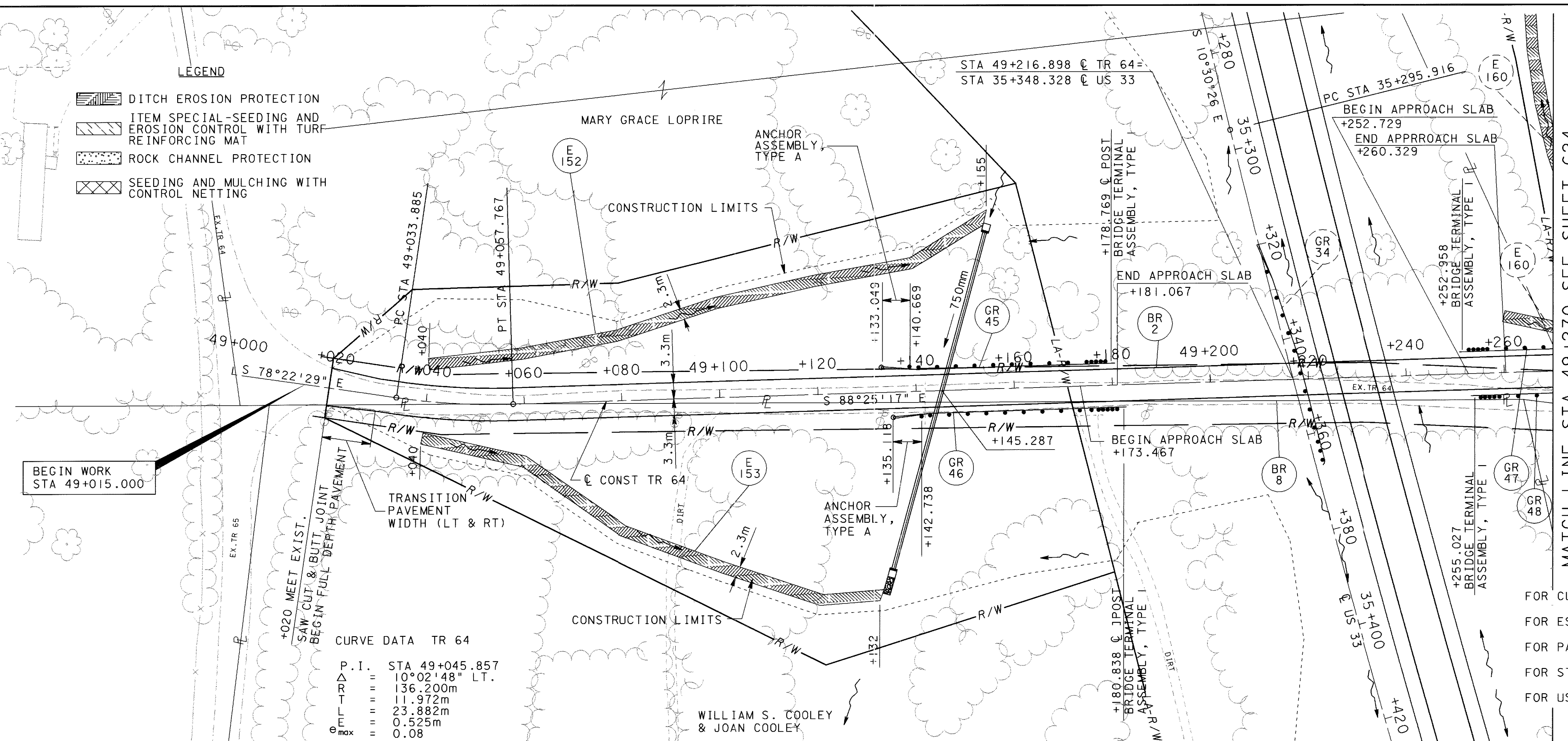
CALCULATED PRS
 CHECKED AM

**TR 64 PLAN & PROFILE
 STA 49+000 TO STA 49+270**

ATH-33-30.981

623
 956

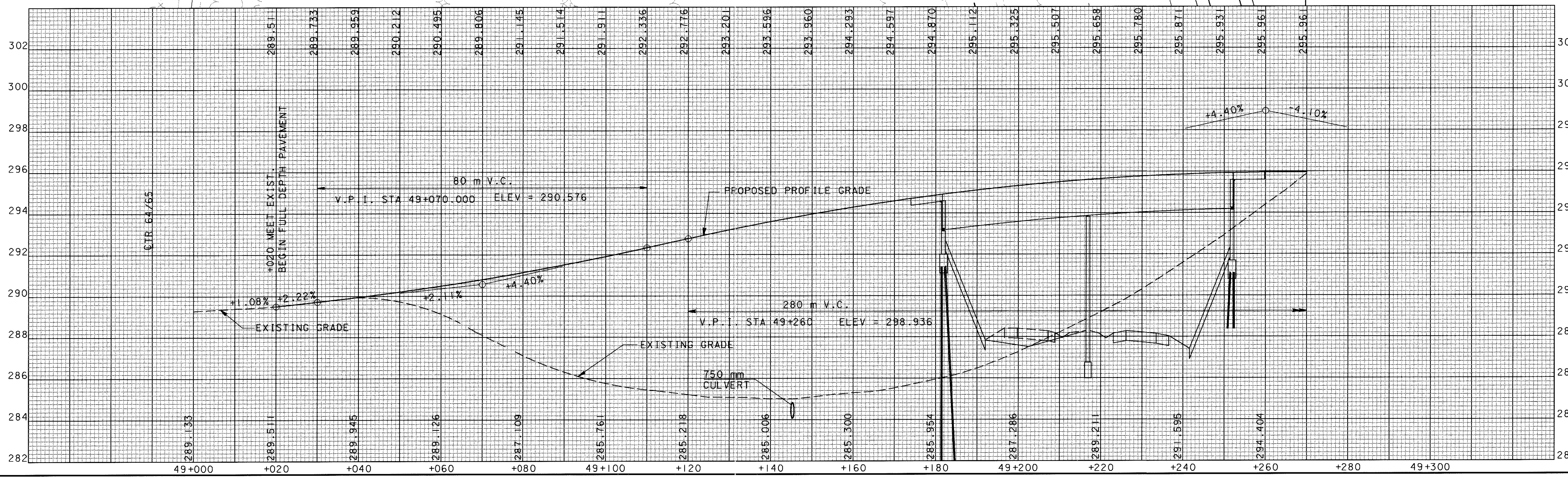
- LEGEND**
- DITCH EROSION PROTECTION
 - ITEM SPECIAL-SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT
 - ROCK CHANNEL PROTECTION
 - SEEDING AND MULCHING WITH CONTROL NETTING




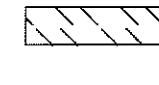
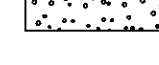
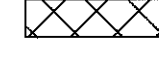
MATCH LINE STA 49+270 SEE SHEET 624

FOR CULVERT DETAILS, SEE SHEET 862
 FOR ESTIMATED QUANTITIES, SEE SHEET 625
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
 FOR STRUCTURE DETAILS, SEE SHEETS 925 TO 938
 FOR US 33 DETAILS, SEE SHEET 140

CURVE DATA TR 64
 P.I. STA 49+045.857
 LT. = 10° 02' 48"
 L.T. = 136.200m
 T = 11.972m
 E = 23.882m
 max = 0.525m
 0.08



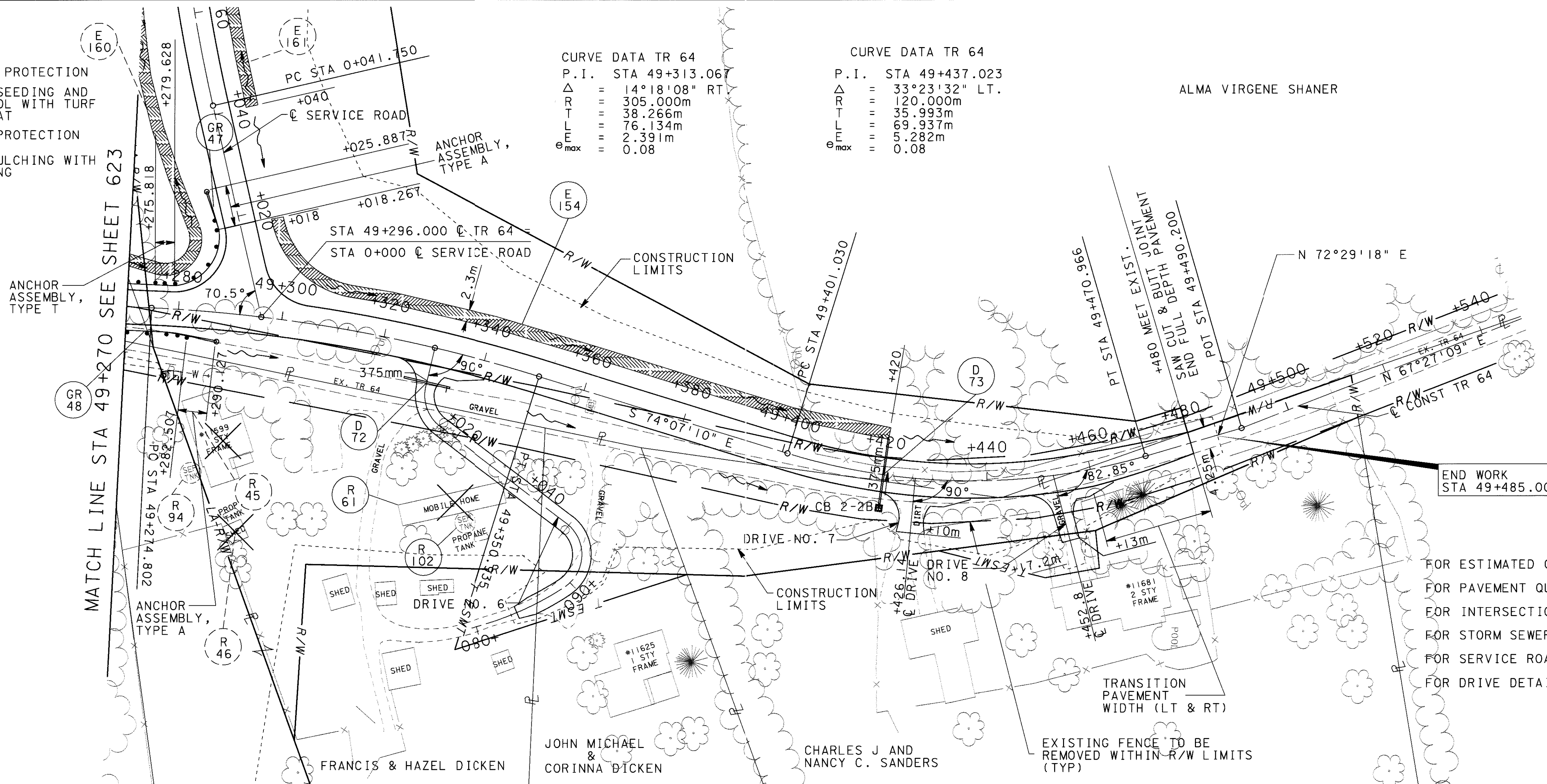
LEGEND

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

CURVE DATA TR 64
 P.I. STA 49+313.067
 Δ = 14°18'08" RT
 R = 305.000m
 T = 38.266m
 L = 76.134m
 E = 2.391m
 e_{max} = 0.08

CURVE DATA TR 64
 P.I. STA 49+437.023
 Δ = 33°23'32" LT.
 R = 120.000m
 T = 35.993m
 L = 69.937m
 E = 5.282m
 e_{max} = 0.08

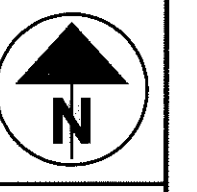
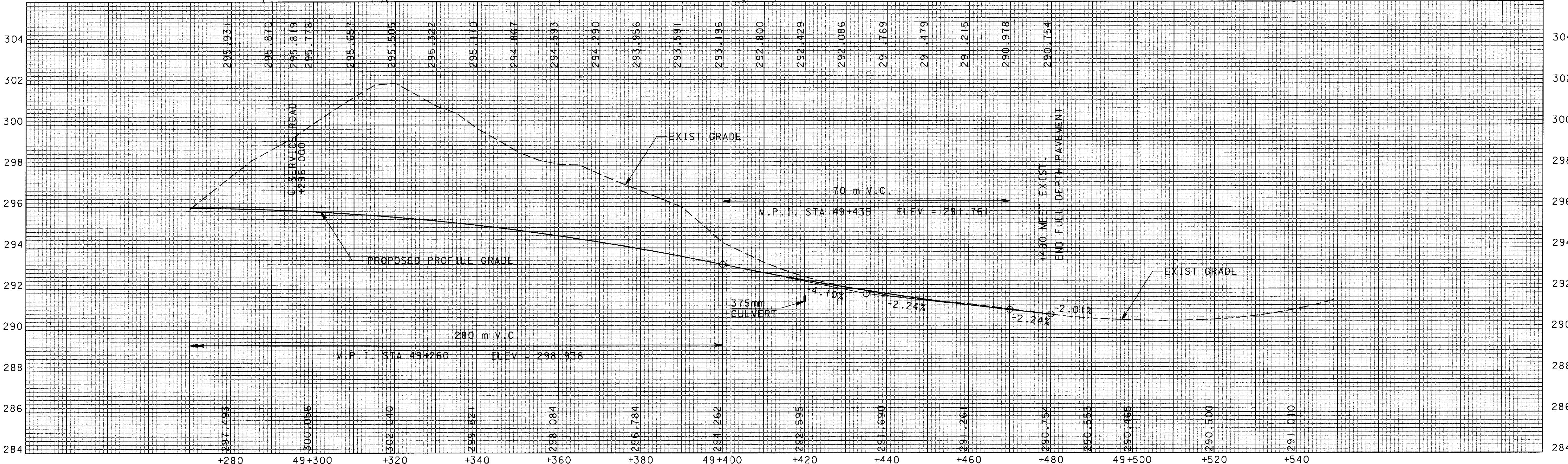
ALMA VIRGENE SHANER



MATCH LINE STA 49+270 SEE SHEET 623

END WORK STA 49+485.000

FOR ESTIMATED QUANTITIES, SEE SHEET 625
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
 FOR INTERSECTION DETAIL, SEE SHEET 699
 FOR STORM SEWER DETAIL, SEE SHEET 631
 FOR SERVICE ROAD DETAILS, SEE SHEET 634
 FOR DRIVE DETAILS, SEE SHEET 659



0 1500 3000
 HORIZONTAL SCALE IN METERS

CALCULATED PRS
 CHECKED AM

TR 64 PLAN & PROFILE
STA 49+270 TO STA 49+549.046

ATH-33-30.981

624
 956

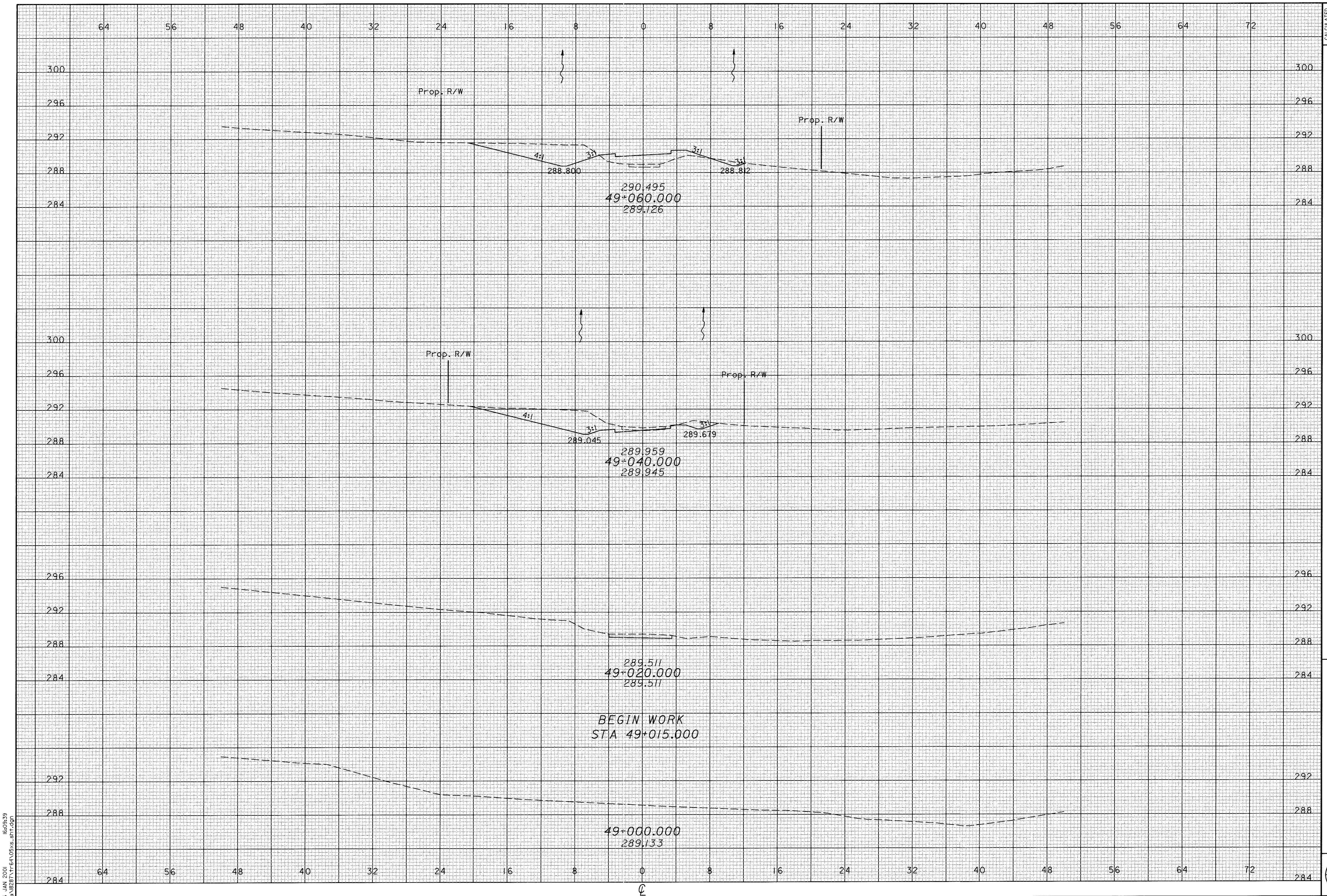
REF NO.	SHEET NO.	STATION		SIDE	202	202	603	603	604	606	606	606	606	626	626	670							
		FROM	TO		BUILDING DEMOLISHED	SEPTIC TANK REMOVED	375mm CONDUIT, TYPE D	375mm CONDUIT, TYPE B	CATCH BASIN, NO. 2-2B	GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE A	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE I	BARRIER REFLECTORS, TYPE A2	BARRIER REFLECTORS, TYPE B2	DITCH EROSION PROTECTION							
		EACH	EACH	METER	METER	EACH	METER	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SQ. METER								
D72	624	49+330.000		RT			9																
D73	624	49+420.000		LT&RT				13.5	1														
E152	623	49+040.000	49+155.000	LT												272.3							
E153	623	49+040.000	49+132.000	RT												233.5							
E154	624	0+018 (SERVICE RD)	49+420.000	LT												298.8							
GR45	623	49+133.049	49+180.674	LT						40.005	1		1	3									
GR46	623	49+135.118	49+182.743	RT						40.005	1		1	3									
GR47	623,624	49+251.053	0+026 (SERV. RD)	LT						40.005	1	1	1	3									
GR48	623,624	49+253.122	49+293.127	RT						32.385	1		1	3									
R61	624	49+340.000		RT	1																		
BR 7	623	49+178.769	49+292.958	LT											4								
BR 8	623	49+180.838	49+255.027	RT											4								
R102	624	49+345		RT		1																	
TOTALS CARRIED TO ROADWAY SUBSUMMARY					1	1	9	13.5	1	152.40	4	1	4	12	8	804.6							

**ESTIMATED QUANTITIES
TR 64**

ATH-33-30.981

CALCULATED
AML
CHECKED
AM

625
956



16 JAN 2001 16:03:39
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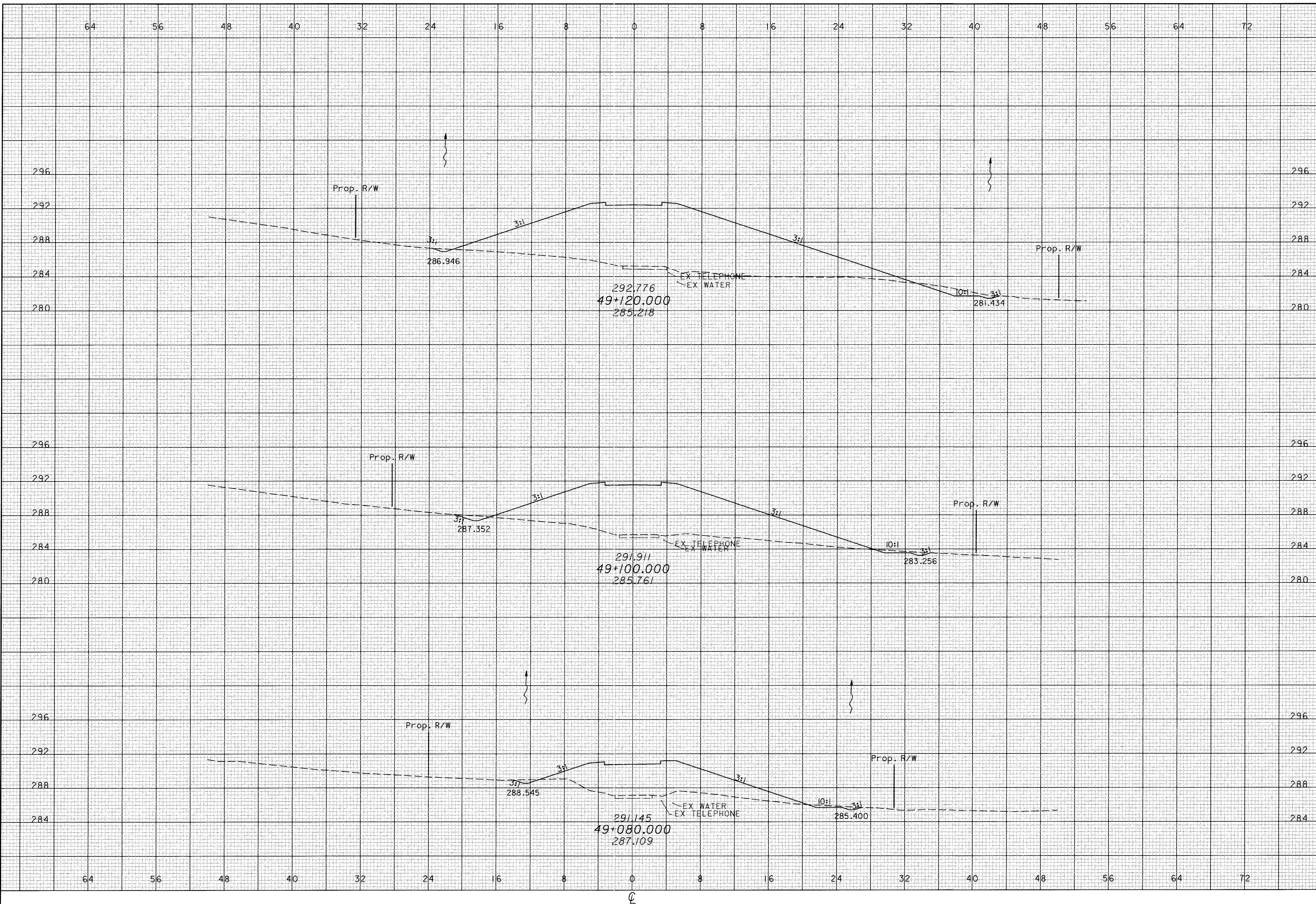
CALCULATED
 PPS
 CHECKED
 TAL

CROSS SECTIONS
 TR 64 - STA 49+020 TO STA 49+060

ATH-33-30.981

626
 956

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CALCULATED
PRS
CHECKED
TAL

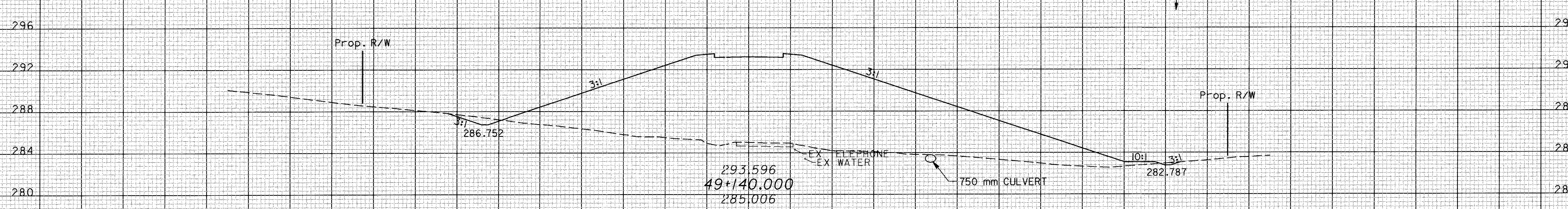
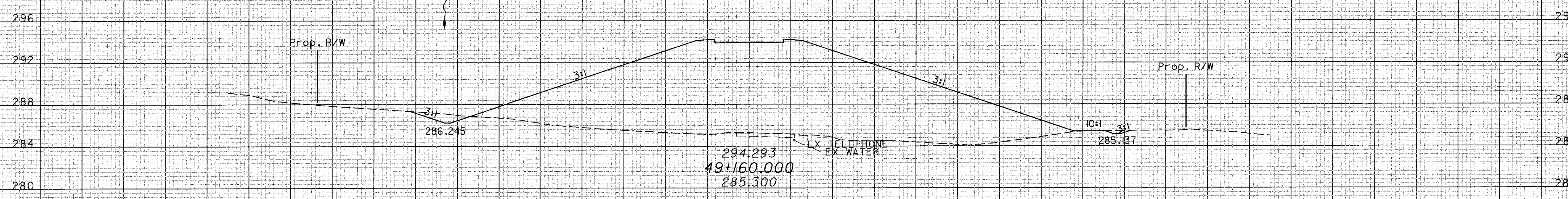
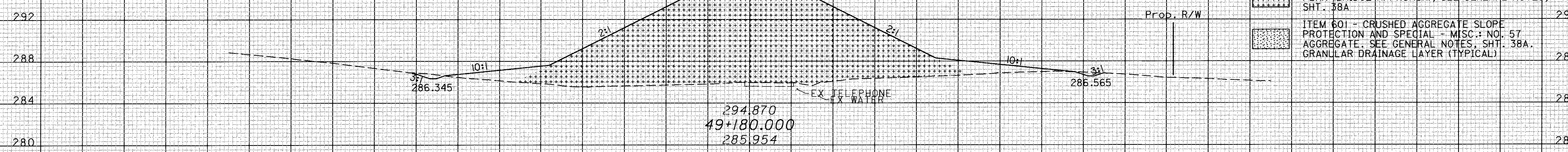
CROSS SECTIONS
TR 64 - STA 49+080 TO STA 49+120

ATH-33-30.981

64 56 48 40 32 24 16 8 0 8 16 24 32 40 48 56 64 72

BEGIN BRIDGE
STA 49+181.067

- 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)



64 56 48 40 32 24 16 8 0 8 16 24 32 40 48 56 64 72

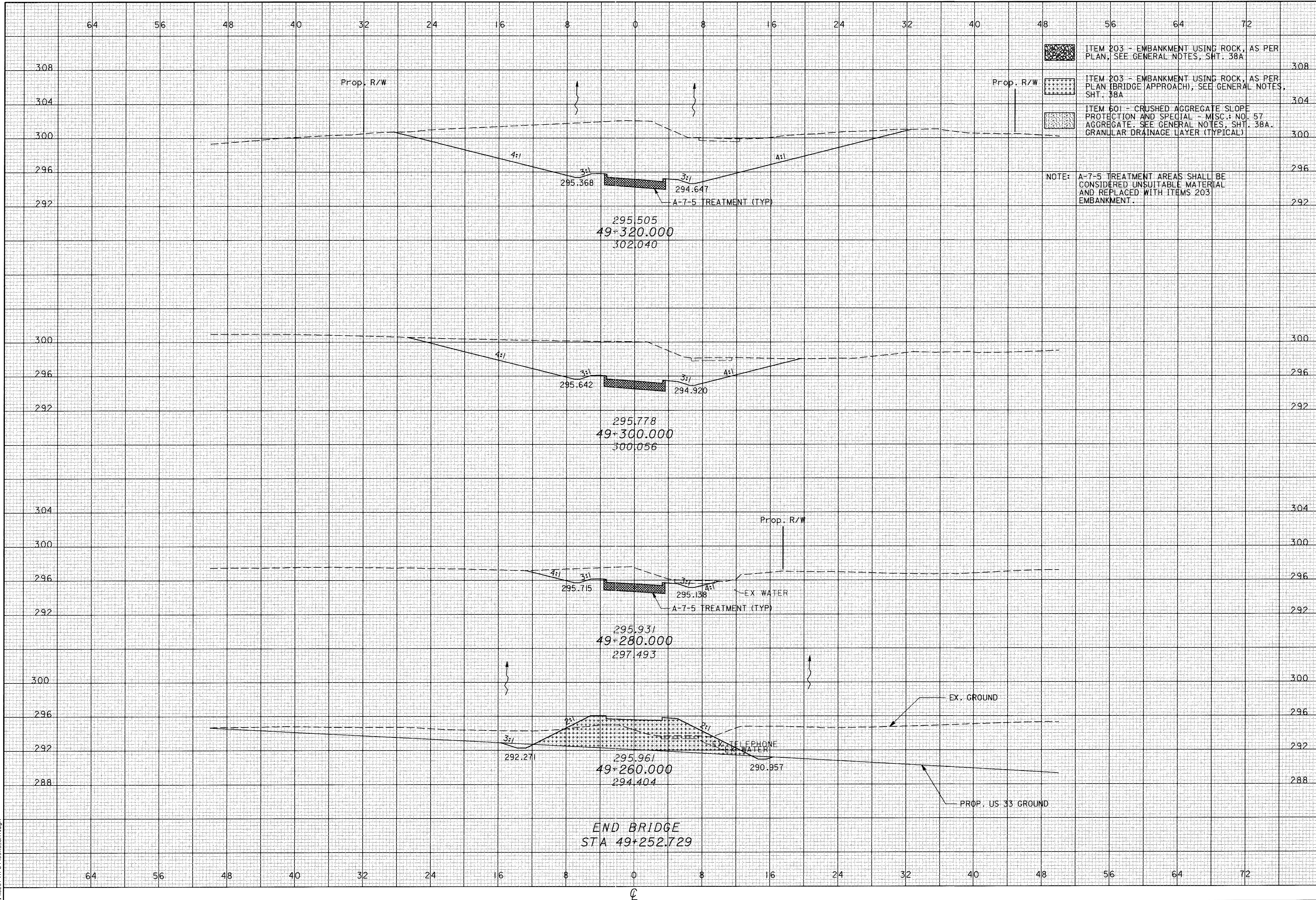
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PPS
CHECKED
TAL

CROSS SECTIONS
TR 64 - STA 49+140 TO STA 49+180

ATH-33-30.981

628
956

05 FEB 2001 14:24
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CALCULATED
 PRS
 CHECKED
 TAL

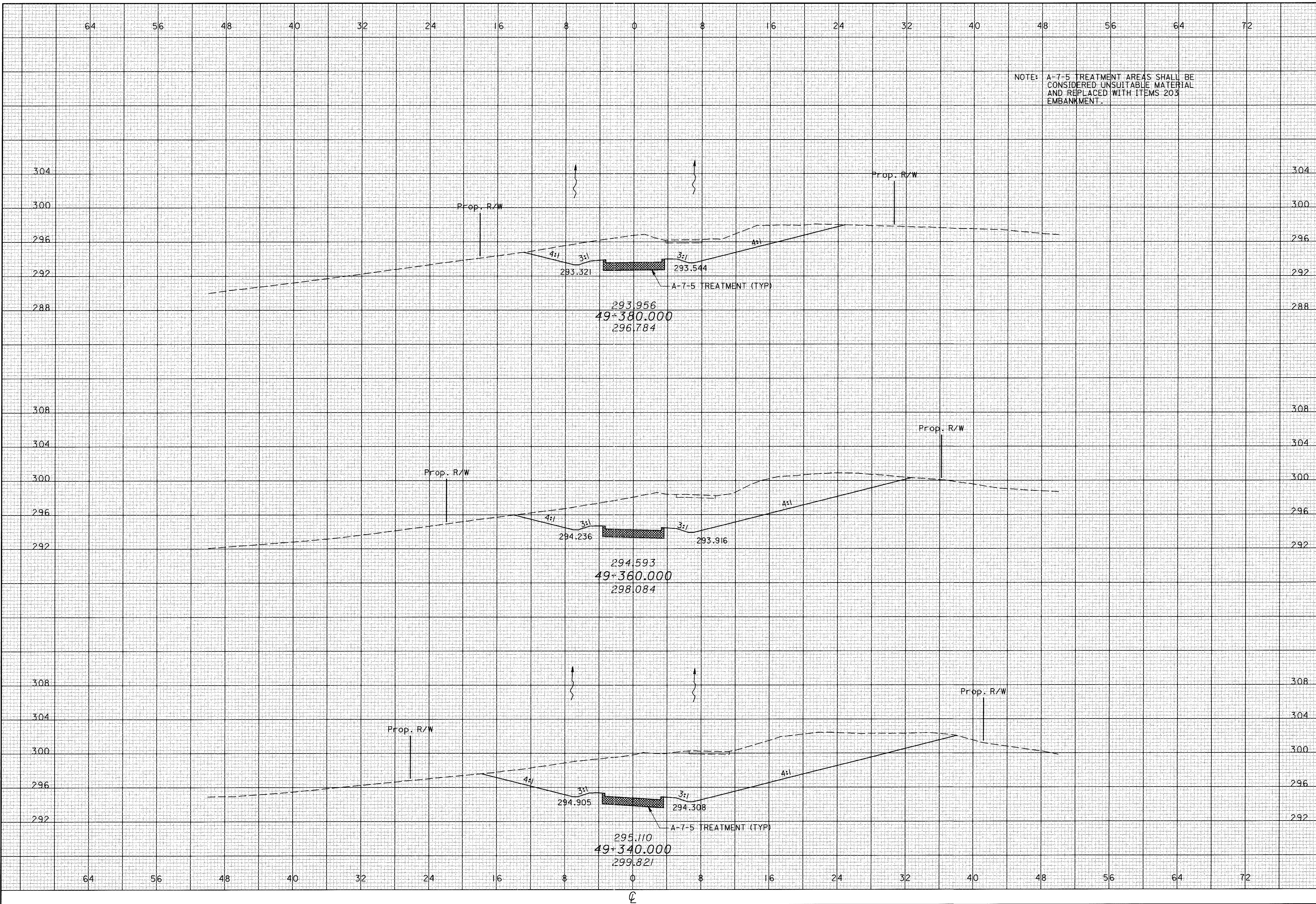
CROSS SECTIONS
 TR 64 - STA 49+260 TO STA 49+320

ATH-33-30.981

629
 956

CALCULATED
PPS
CHECKED
TAL

NOTE: A-7-5 TREATMENT AREAS SHALL BE CONSIDERED UNSUITABLE MATERIAL AND REPLACED WITH ITEMS 203 EMBANKMENT.

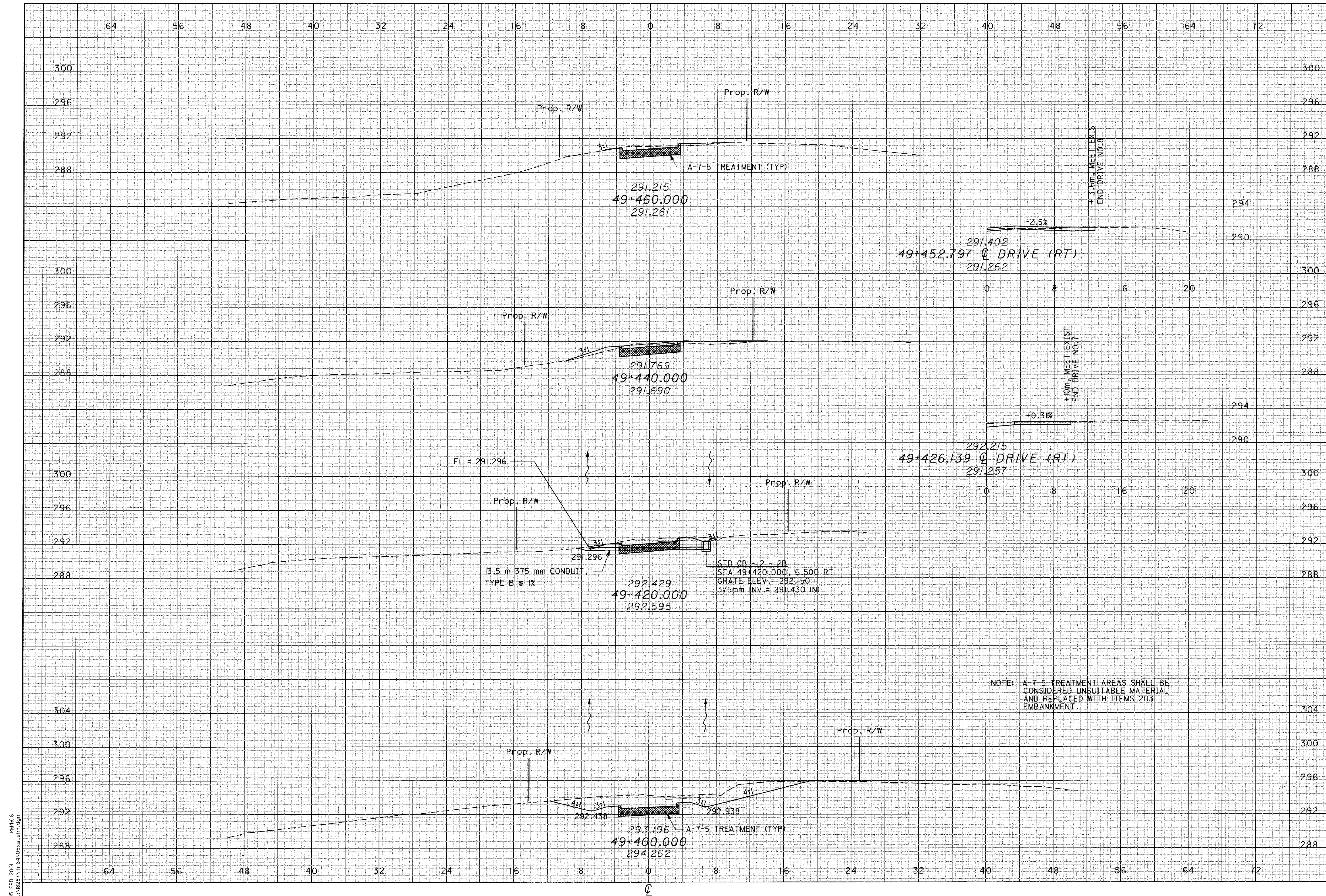


CROSS SECTIONS
TR 64 - STA 49+340 TO STA 49+380

ATH-33-30.981

630
956

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CALCULATED
 PPS
 CHECKED
 TAL

CROSS SECTIONS
TR 64 - STA 49+400 TO STA 49+460

ATH-33-30.981

631
 956

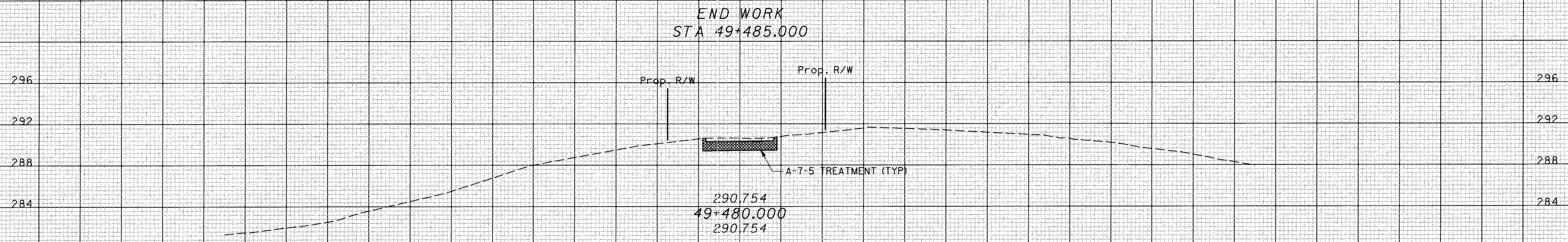
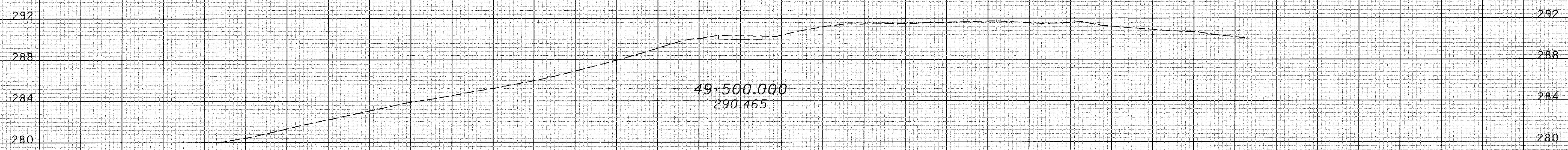
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CALCULATED
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CHECKED
TAL

NOTE: A-7-5 TREATMENT AREAS SHALL BE CONSIDERED UNSUITABLE MATERIAL AND REPLACED WITH ITEMS 203 EMBANKMENT.

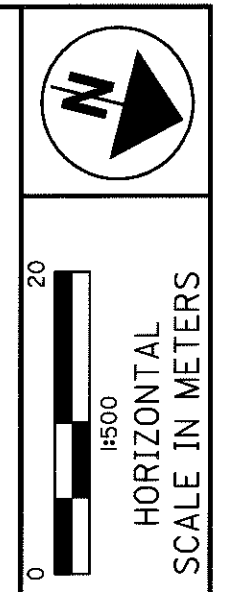
CROSS SECTIONS
TR 64 - STA 49+480 TO STA 49+500



ATH-33-30.981

632
956

05 FEB 2001 144429
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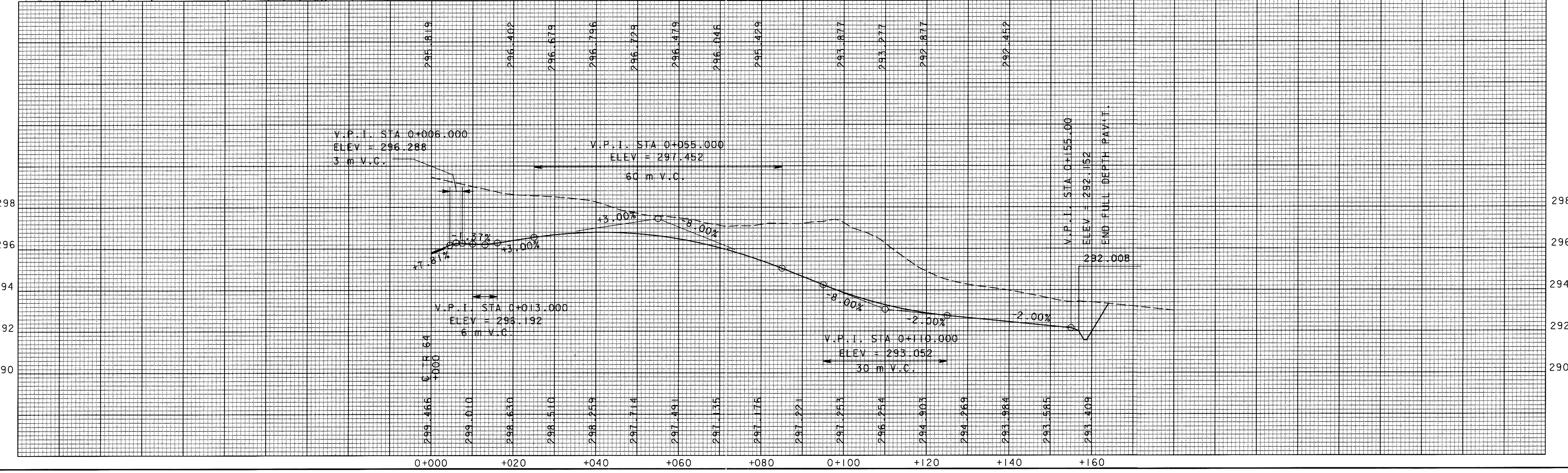
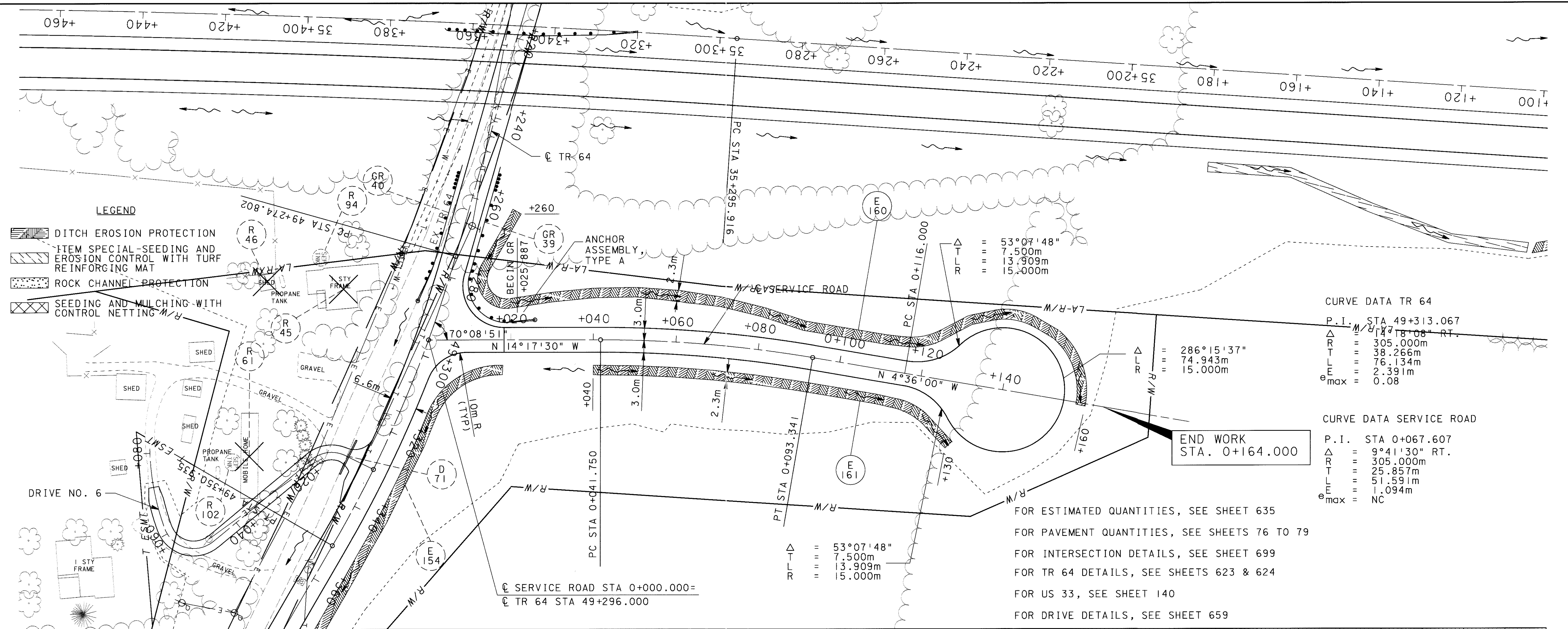


CALCULATED
S.A.W.
CHECKED
A.M.

SERVICE ROAD PLAN AND PROFILE

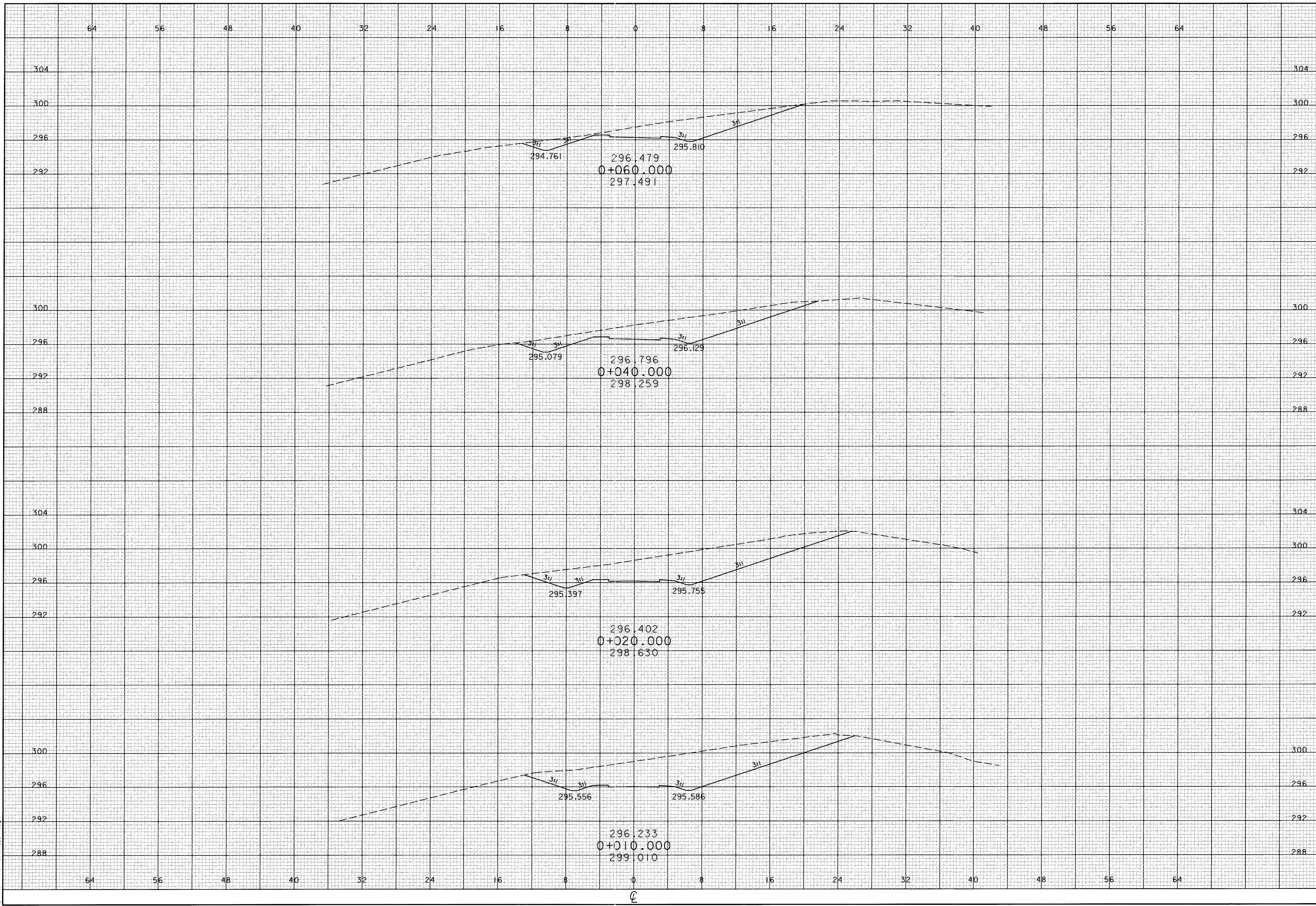
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634
956



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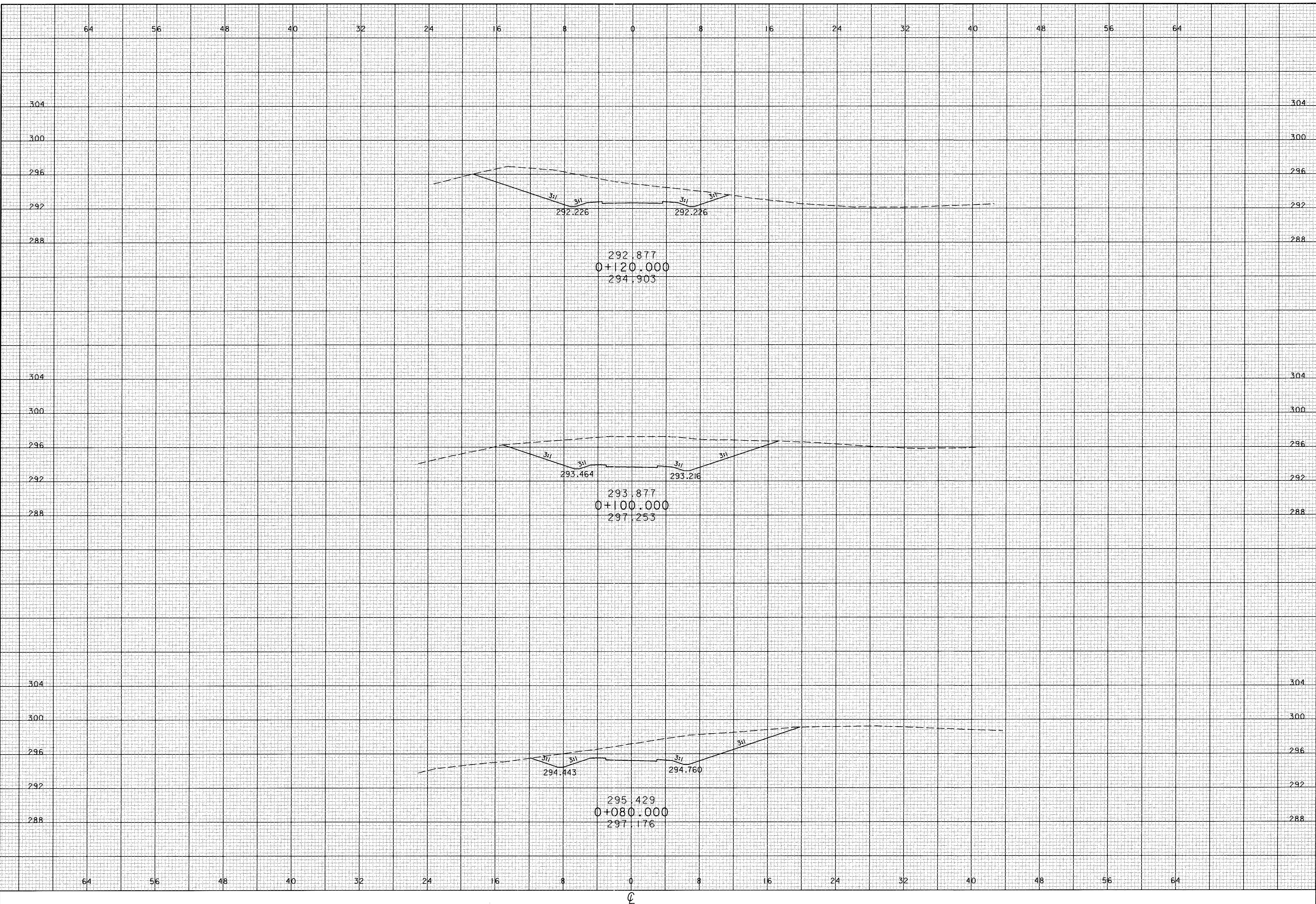
CROSS SECTIONS
SERVICE ROAD - STA 0+010 TO STA 0+060

ATH-33-30.981

CALCULATED
PRS
CHECKED
TAL

636
956

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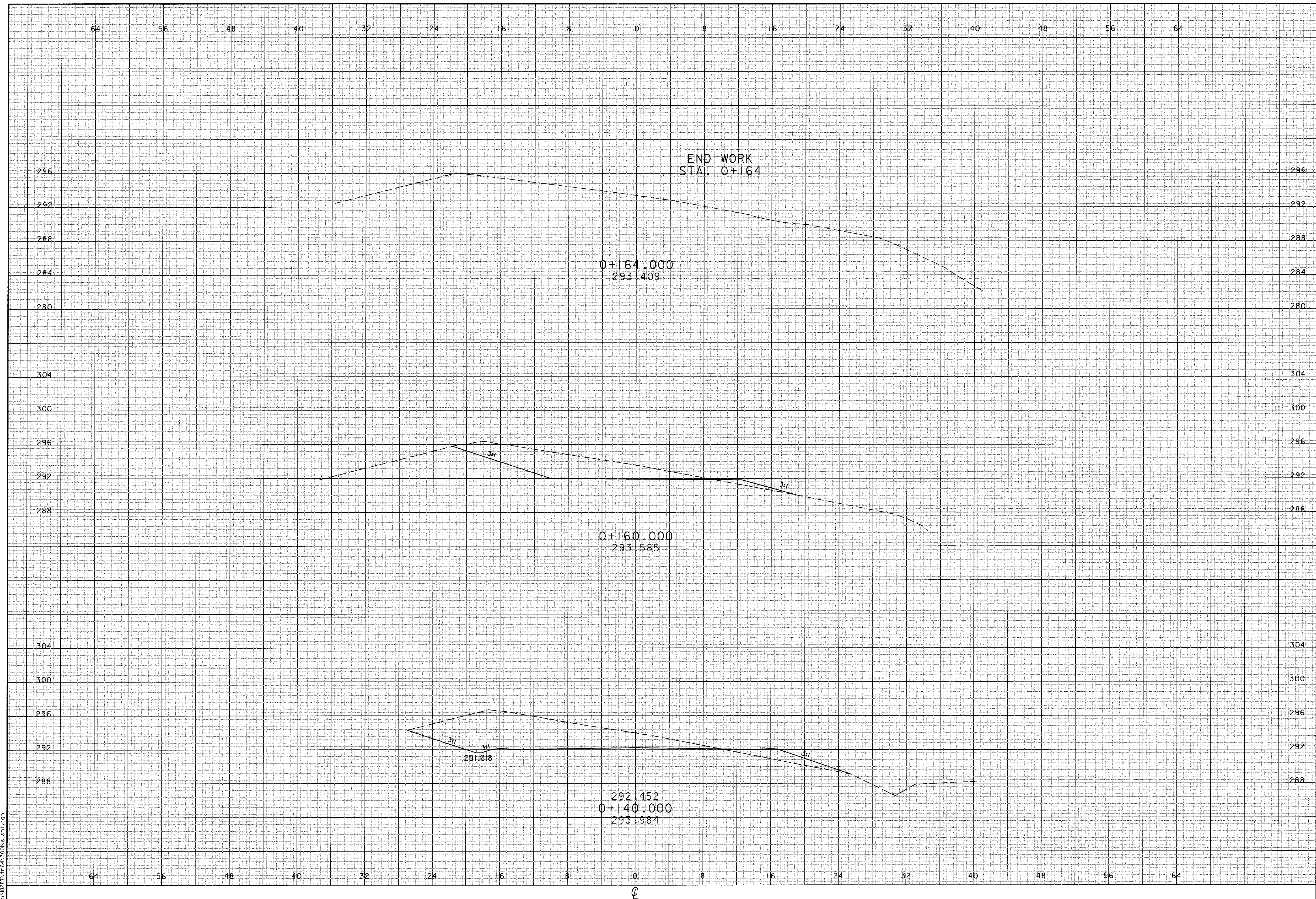
CALCULATED
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CHECKED
TAL

CROSS SECTIONS
SERVICE ROAD - STA 0+080 TO STA 0+120

ATH-33-30.981

637
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CALCULATED
PRS
CHECKED
TAL

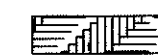
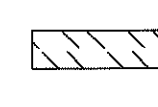

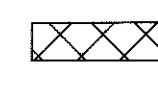

CROSS SECTIONS
SERVICE ROAD - STA 0+140 TO STA 0+164

ATH-33-30.981

638
956

FOR ESTIMATED QUANTITIES, SEE SHEET 643
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
 FOR DRIVE DETAILS, SEE SHEET 660
 FOR CULVERT DETAILS, SEE SHEETS 644 & 863

LEGEND

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

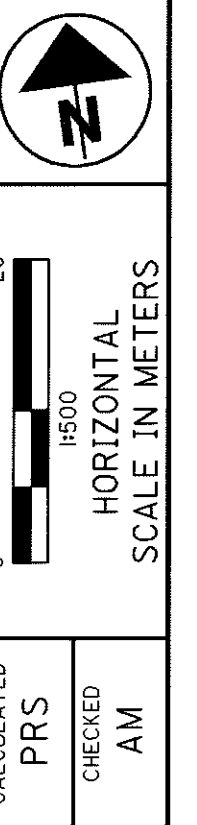
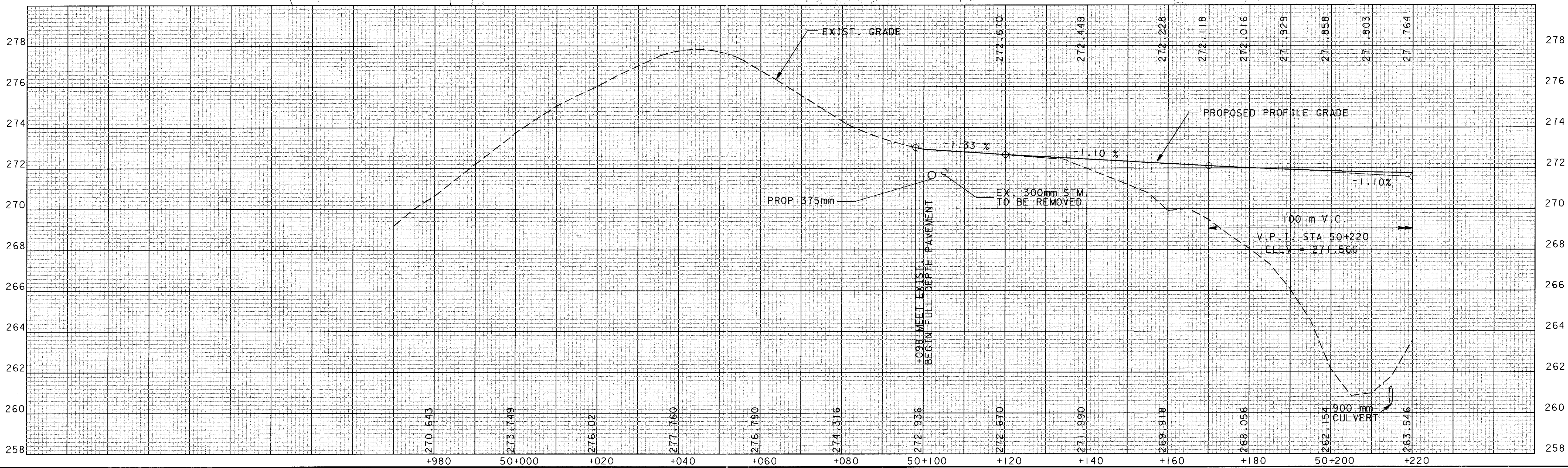
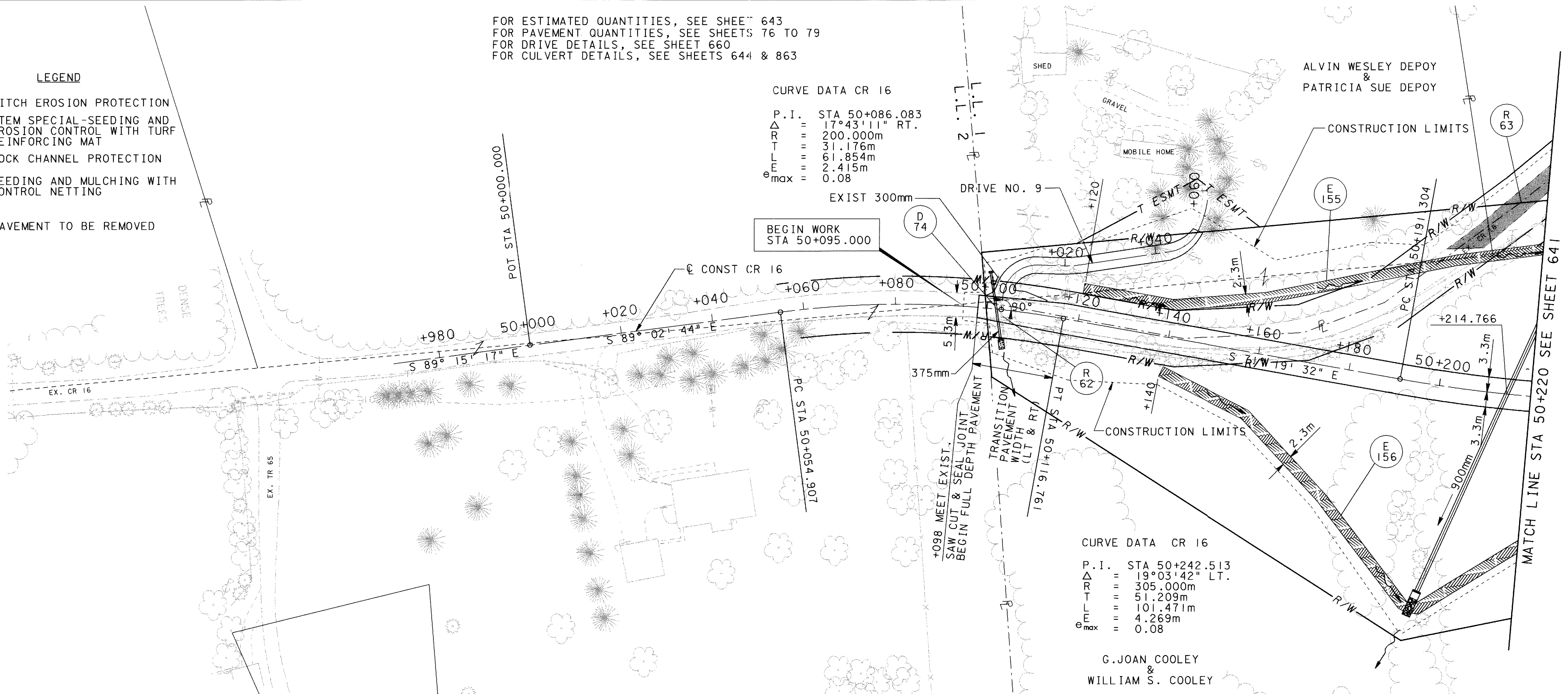
CURVE DATA CR 16

P. I. = STA 50+086.083
 Δ = $17^{\circ}43'11''$ RT.
 R = 200.000m
 T = 51.176m
 L = 2.415m
 e_{max} = 0.08

CURVE DATA CR 16

P. I. = STA 50+242.513
 Δ = $19^{\circ}03'42''$ LT.
 R = 305.000m
 T = 51.209m
 L = 101.471m
 e_{max} = 4.269m

G. JOAN COOLEY
 &
 WILLIAM S. COOLEY




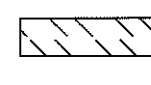
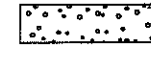
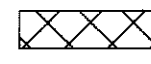

CALCULATED PRS
 CHECKED AM

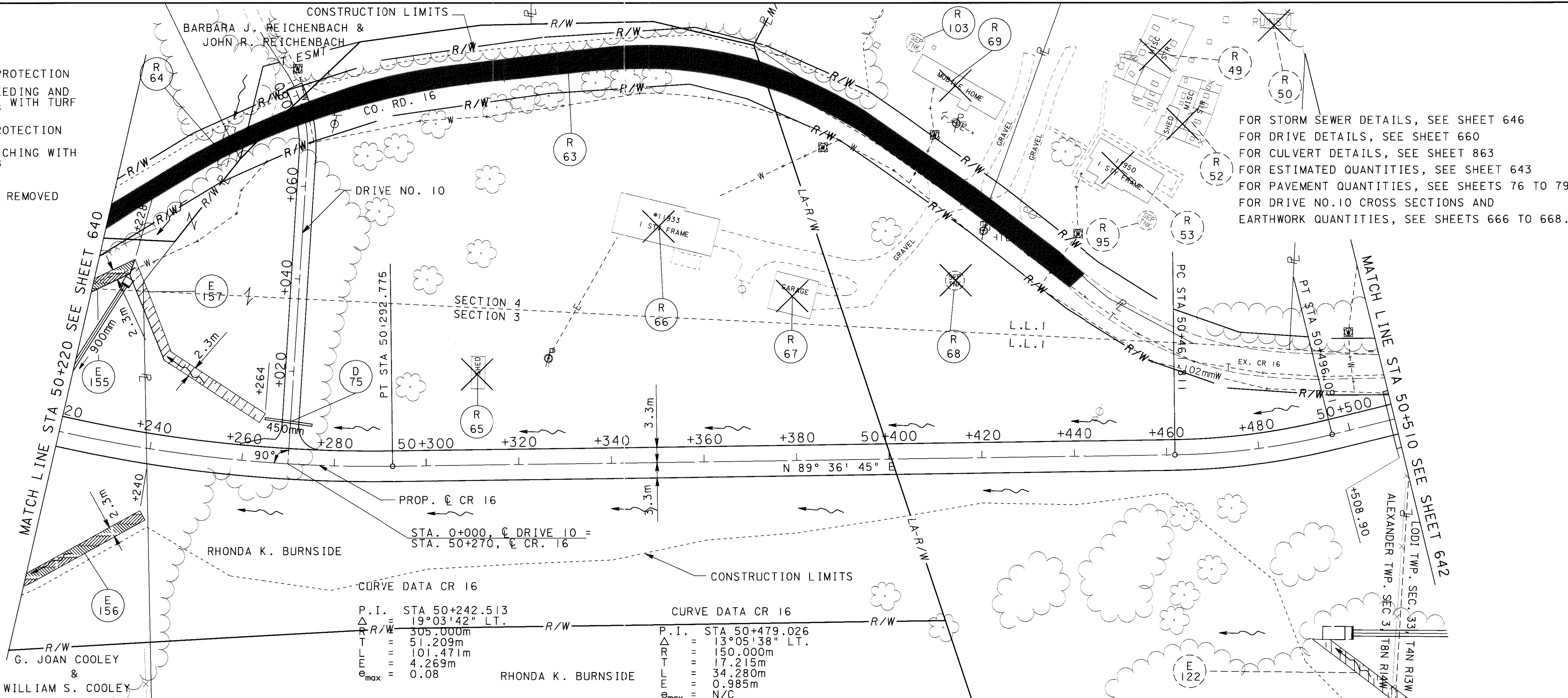
**CR 16 PLAN & PROFILE
 STA 49+970 TO STA 50+220**

ATH-33-30.981

640
 956

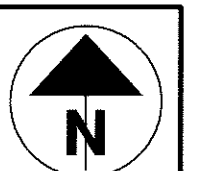
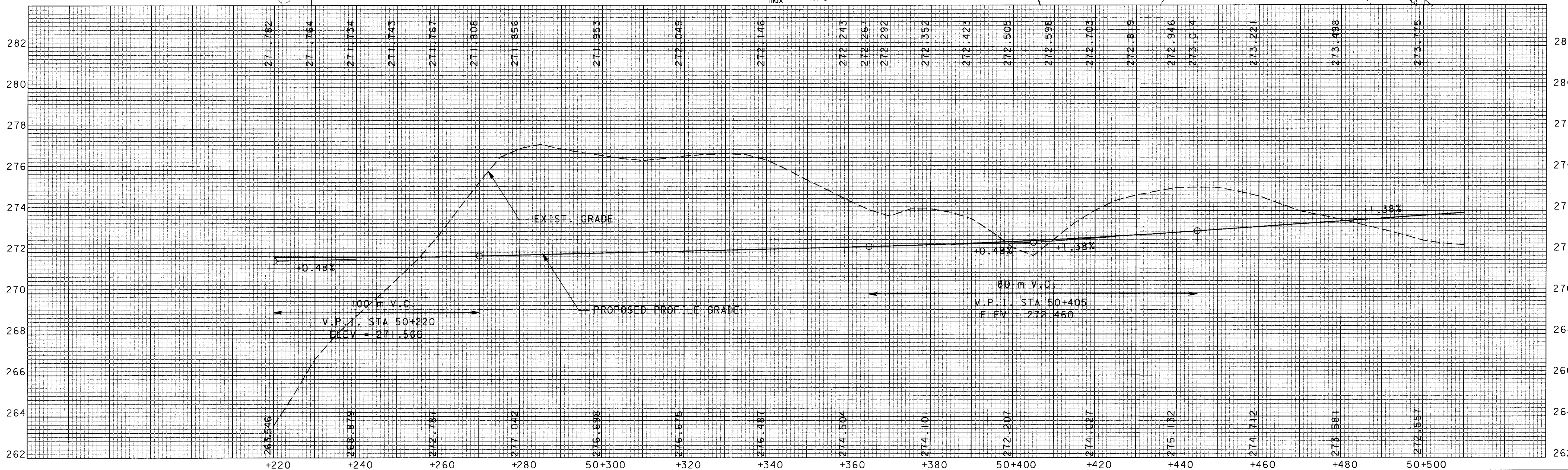
LEGEND

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



FOR STORM SEWER DETAILS, SEE SHEET 646
 FOR DRIVE DETAILS, SEE SHEET 660
 FOR CULVERT DETAILS, SEE SHEET 863
 FOR ESTIMATED QUANTITIES, SEE SHEET 643
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
 FOR DRIVE NO.10 CROSS SECTIONS AND EARTHWORK QUANTITIES, SEE SHEETS 666 TO 668.

CURVE DATA CR 16 P.I. STA 50+242.513 $\Delta = 19^{\circ}03'42''$ LT. R/W = 305.000m T = 51.209m L = 101.471m e _{max} = 4.269m e _{max} = 0.08		CURVE DATA CR 16 P.I. STA 50+479.026 $\Delta = 13^{\circ}05'38''$ LT. R/W = 150.000m T = 17.215m L = 34.280m e _{max} = 0.985m e _{max} = N/C	
--	--	--	--



SCALE 1:500
 HORIZONTAL
 SCALE IN METERS

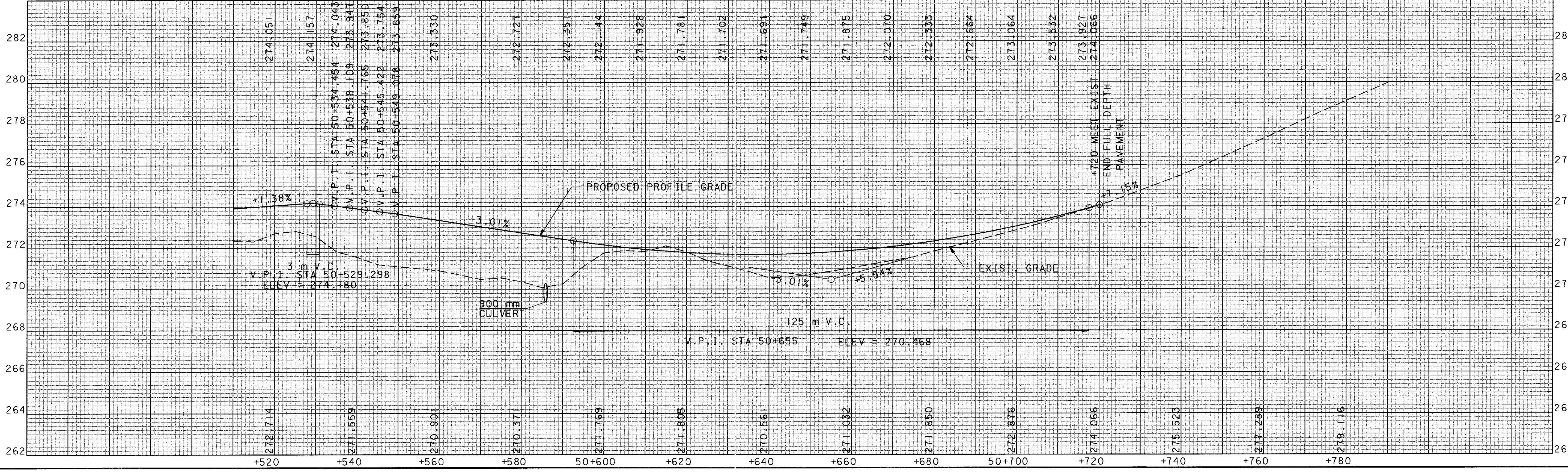
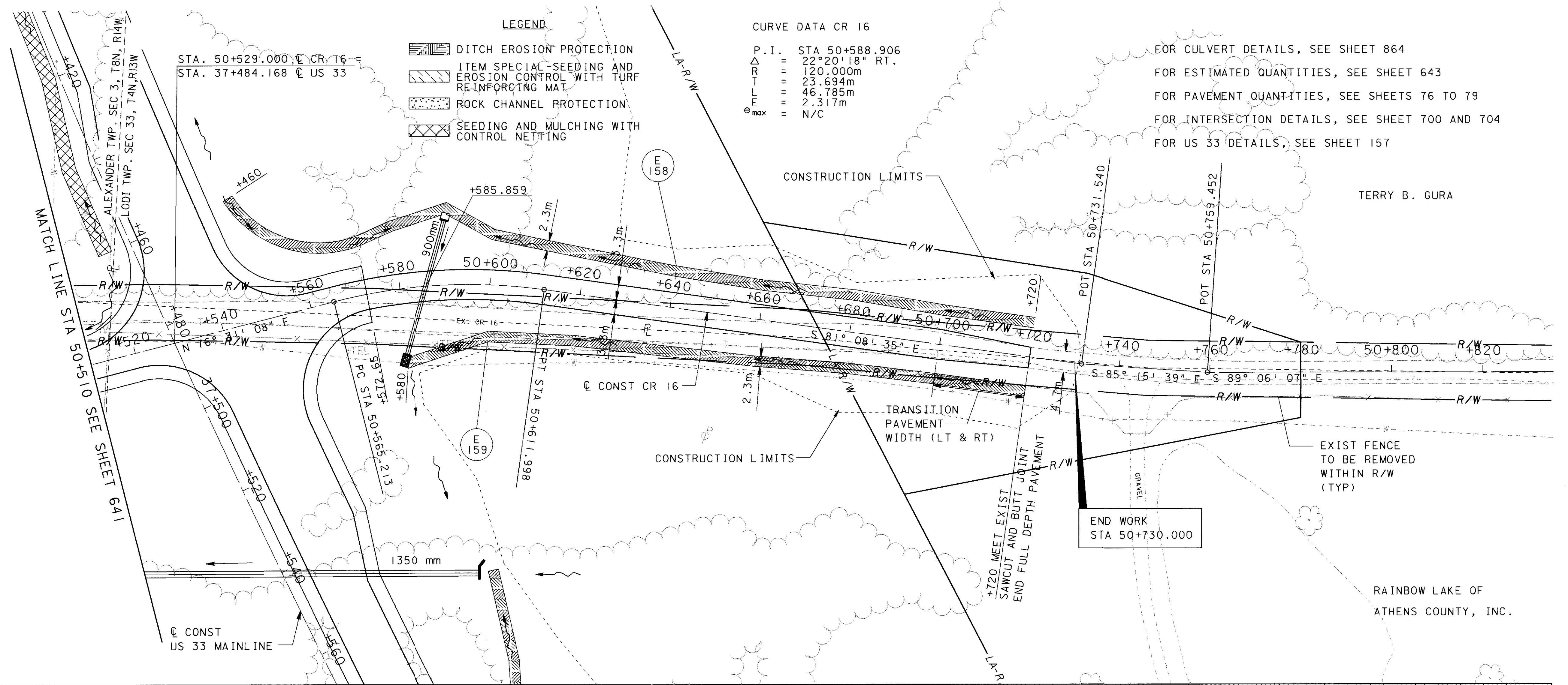
CALCULATED PRS
 CHECKED AM

**CR 16 PLAN & PROFILE
 STA 50+220 TO STA 50+510**

ATH-33-30.981

641
 956

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05 FEB 2001 14:28:24
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18 APR 2001 10:28:03
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REF NO.	SHEET NO.	STATION		SIDE	202	202	202	202	602	602	603	603	670	SPECIAL										
		FROM	TO		BUILDING DEMOLISHED	SEPTIC TANK REMOVED	PIPE REMOVED 600mm AND UNDER	SEPTIC TANK REMOVED	WEARING COURSE REMOVED	CONCRETE MASONRY	375mm CONDUIT, TYPE B	450mm CONDUIT, TYPE B	DITCH EROSION PROTECTION	MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT TYPE I	EACH	EACH	METER	EACH	SQ. METER	CU. METER	METER	METER	SQ. METER	SQ. METER
D74	640	50+102.000		LT&RT							15													
D75	641	50+270		LT					0.54			10.5												
E155	640,641	50+120.000	50+228.000	LT									262.0											
E156	640,641	50+140.000	50+240.000	RT									312.0											
E157	641	50+228.000	50+264.000	LT										98.9										
E158	642	37+460.000 (US 33)	50+720.000	LT									460.0											
E159	642	50+580.000	50+720.000	RT									315.3											
R62	640	50+103.000		LT&RT			12																	
R63	640,641,642	50+098.000	50+720.000	LT&RT					3225															
R64	641	50+245.000		LT			9																	
R65	641	50+310.000		LT	1																			
R66	641	50+350.000		LT	1																			
R67	641	50+380.000		LT	1																			
R68	641	50+415.000		LT		1																		
R69	641	50+420.000		LT	1																			
R103	641	50+405		LT				1																
TOTALS CARRIED TO ROADWAY SUBSUMMARY					4	1	21	1	3225	0.54	15	10.5	1349.3	98.9										

ESTIMATED QUANTITIES
CR 16

ATH-33-30.981

CALCULATED
AML
CHECKED
AM

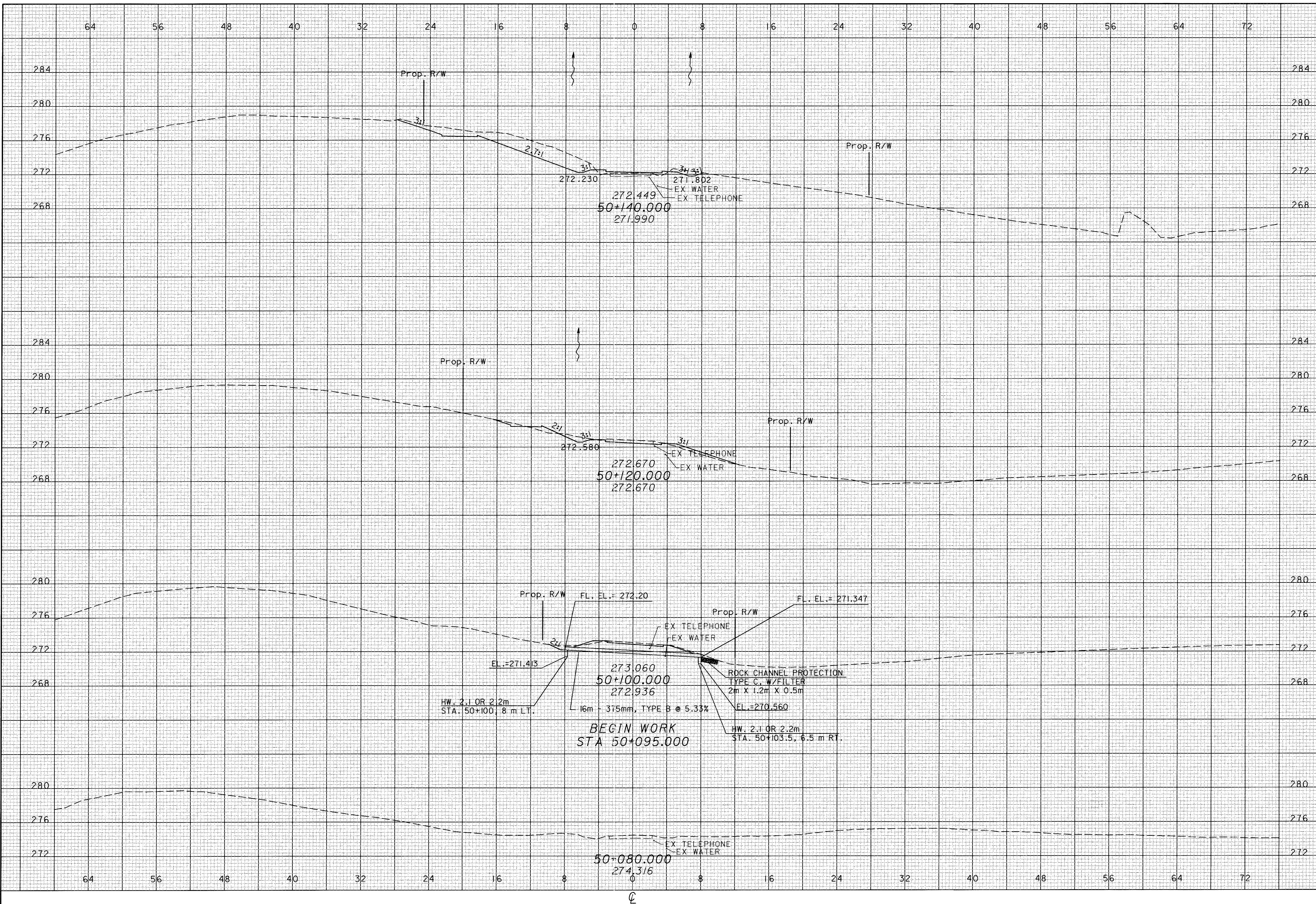
643
956

CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+080 TO STA 50+140

ATH-33-30.981

644
956



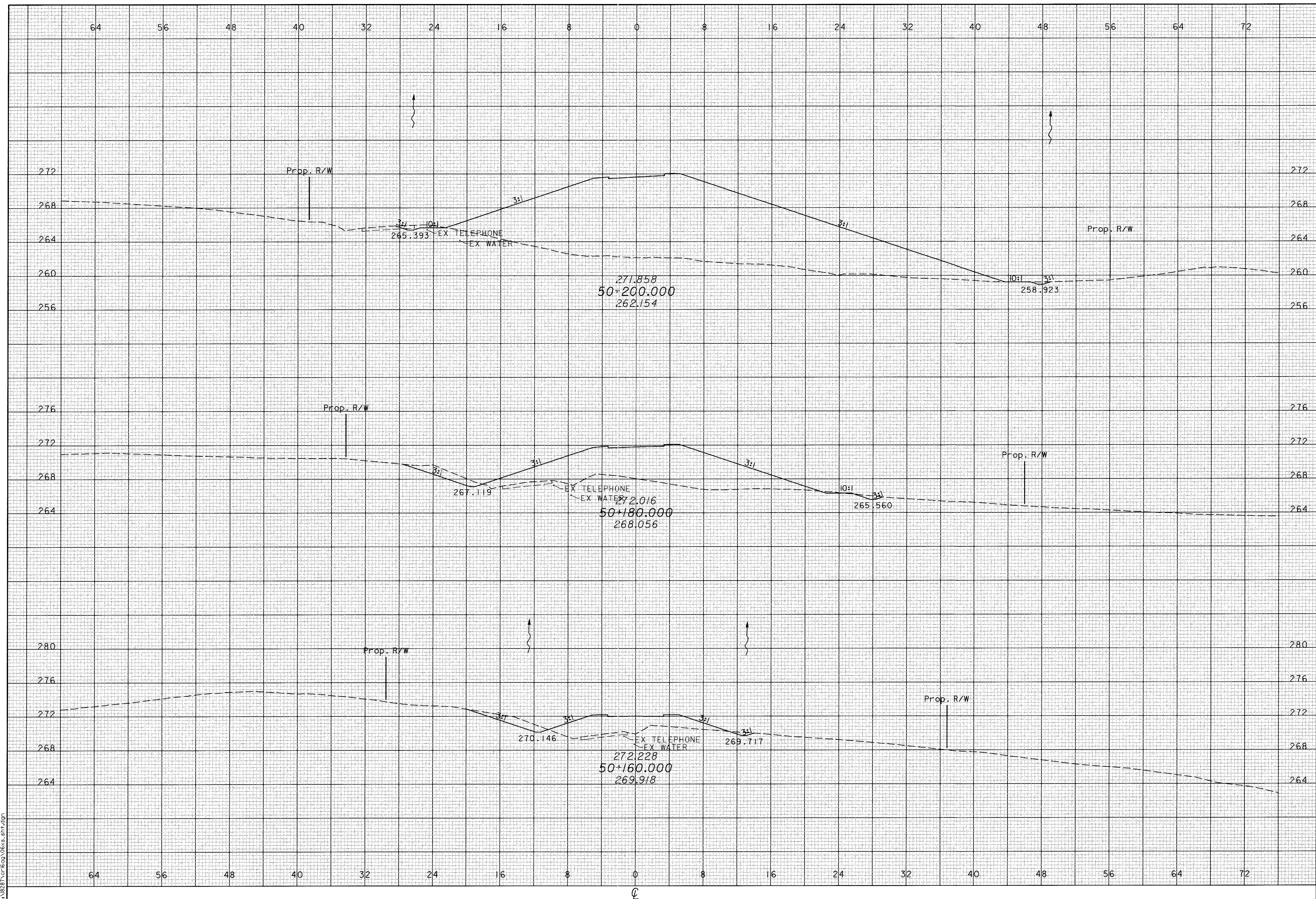
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+160 TO STA 50+200

ATH-33-30.981

645
956



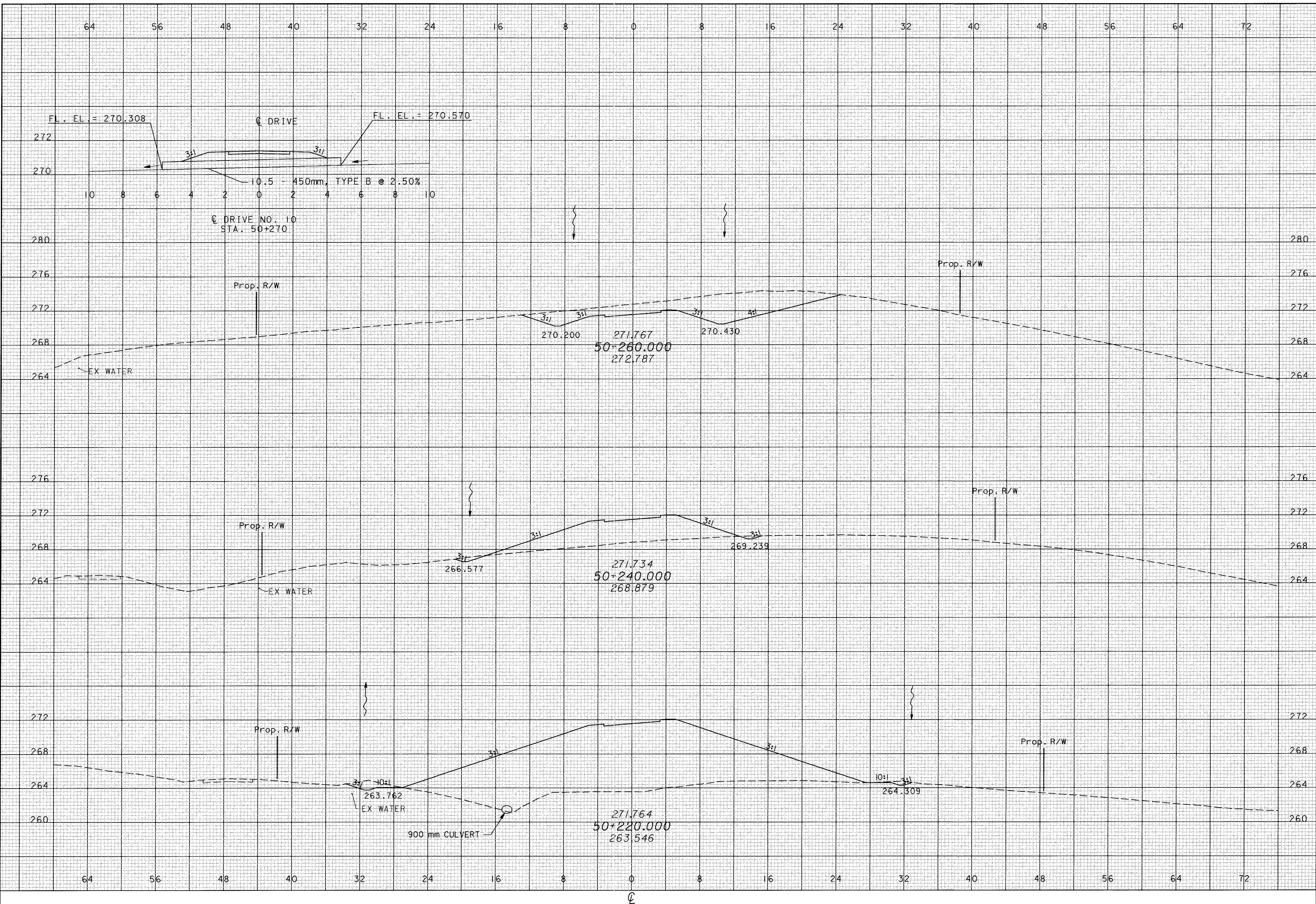
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+220 TO STA 50+260

ATH-33-30.981

646
956



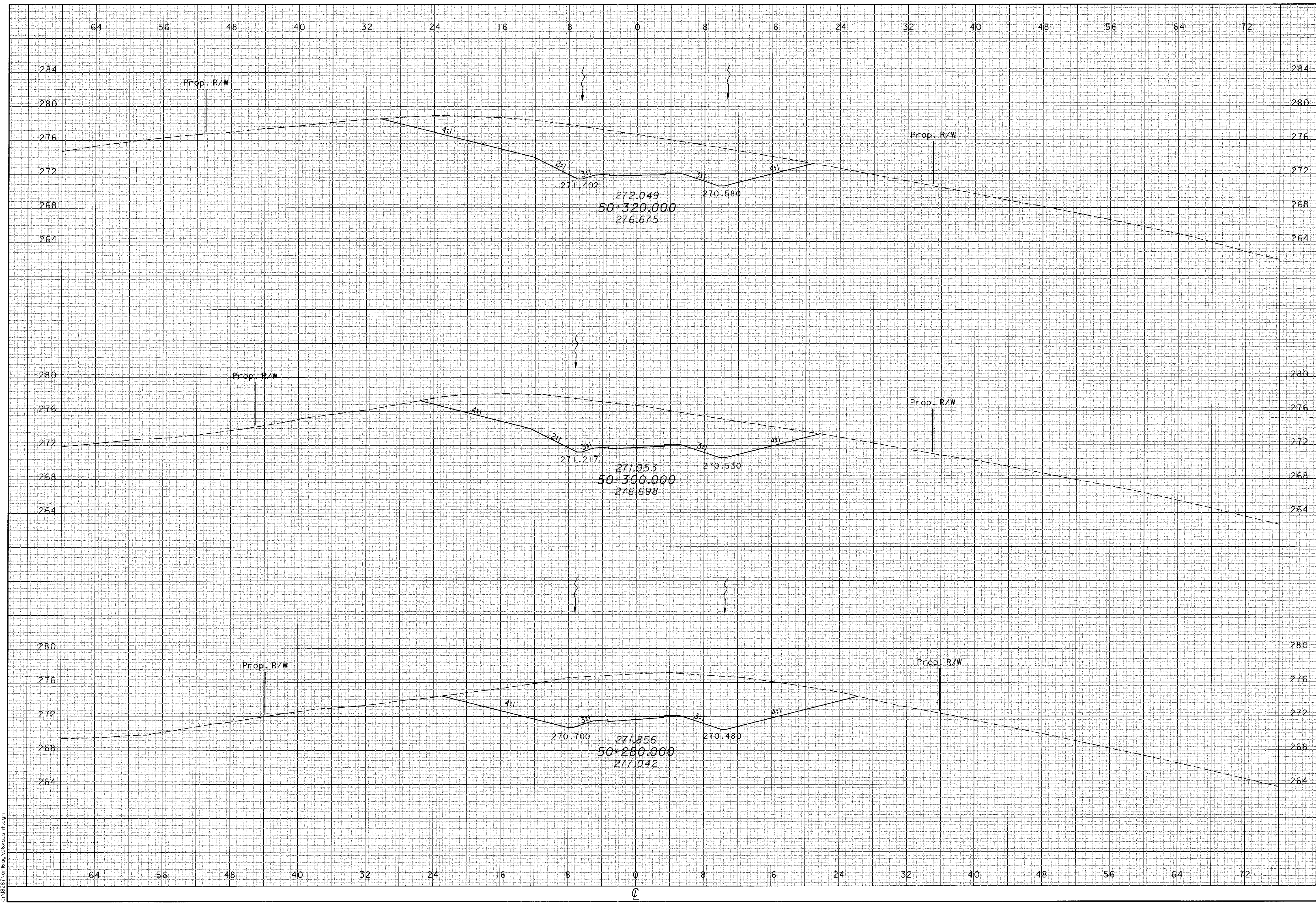
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TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+280 TO STA 50+320

ATH-33-30.981

647
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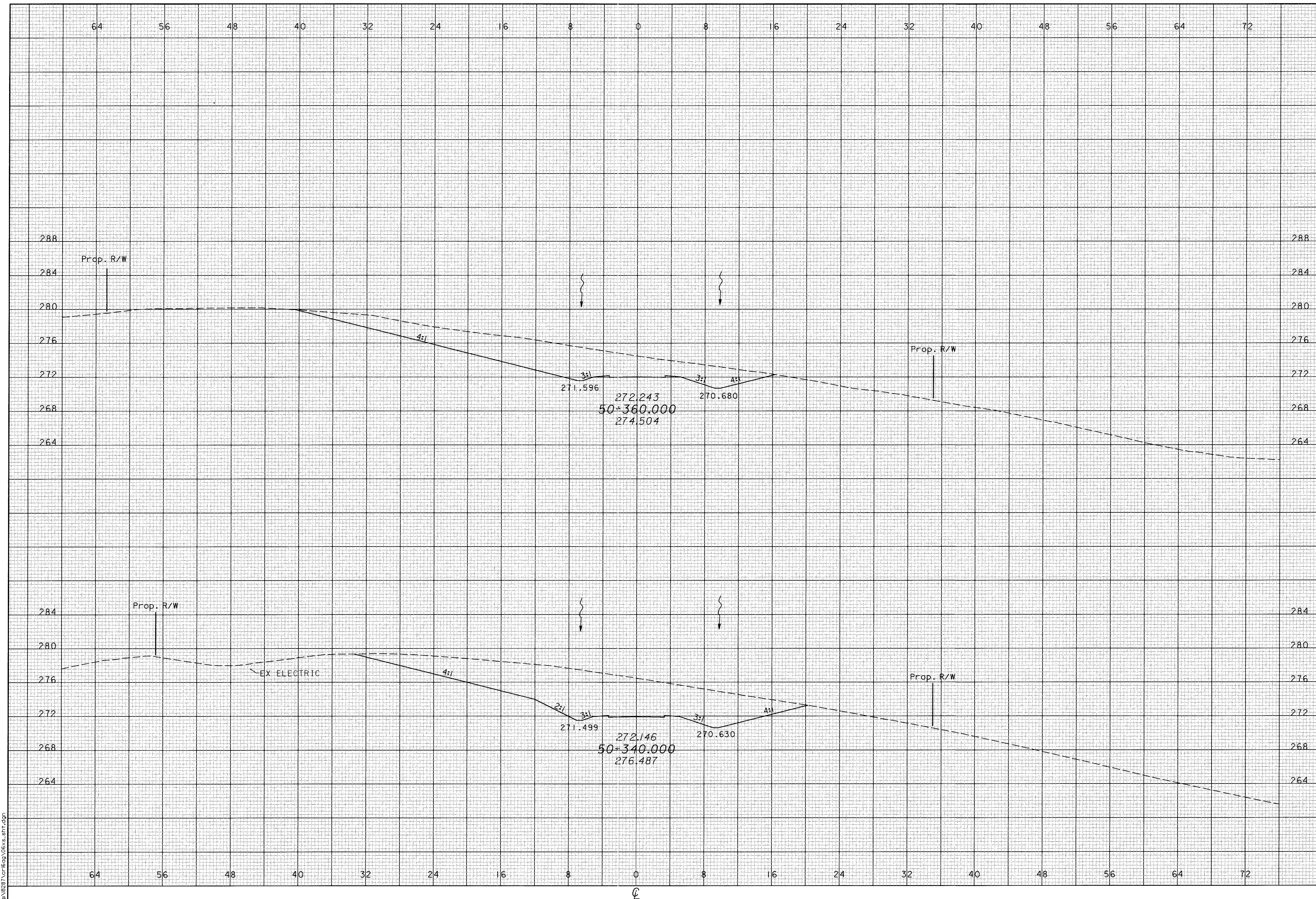
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TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+340 TO STA 50+360

ATH-33-30.981

648
956



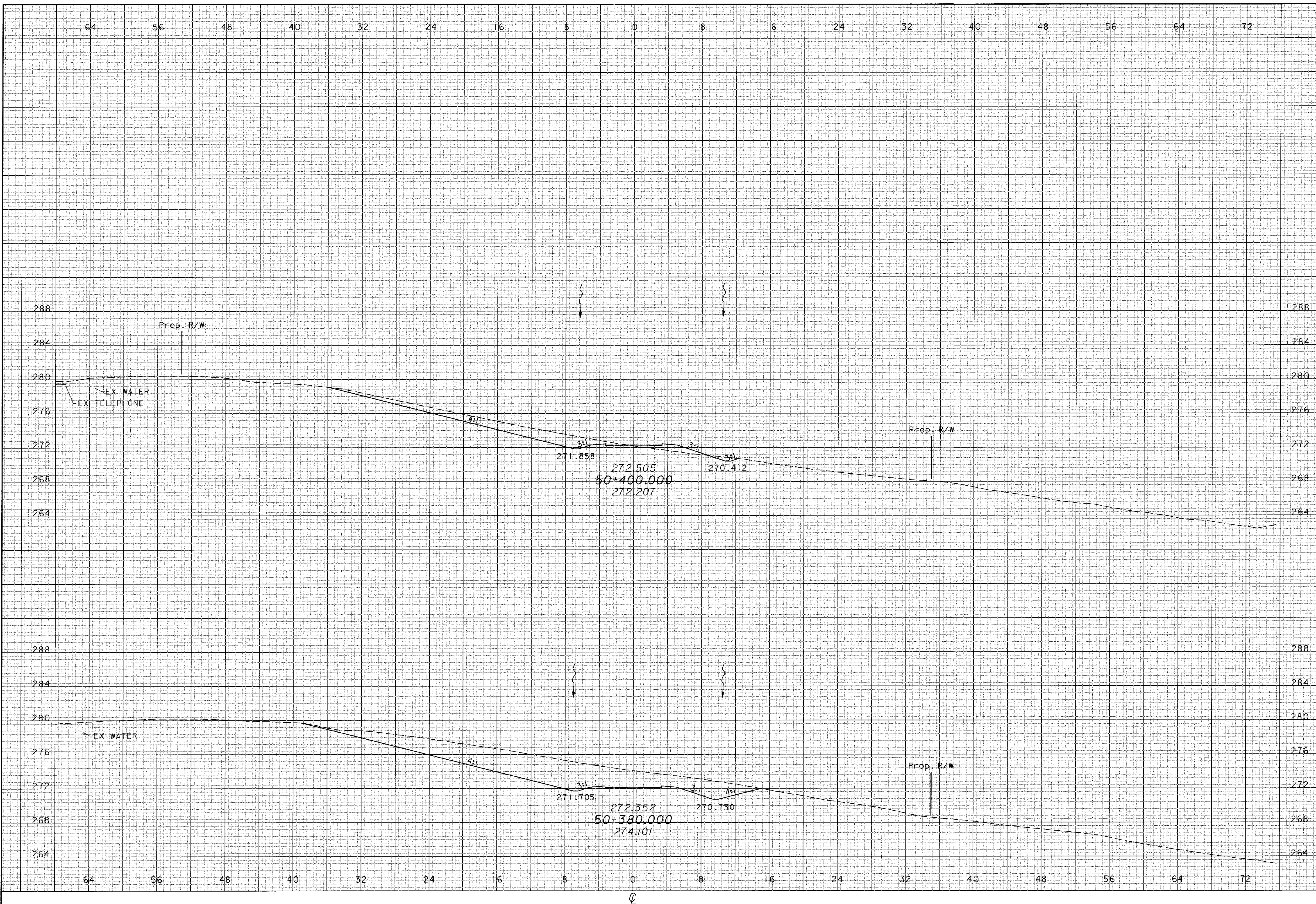
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CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+380 TO STA 50+400

ATH-33-30.981

649
956



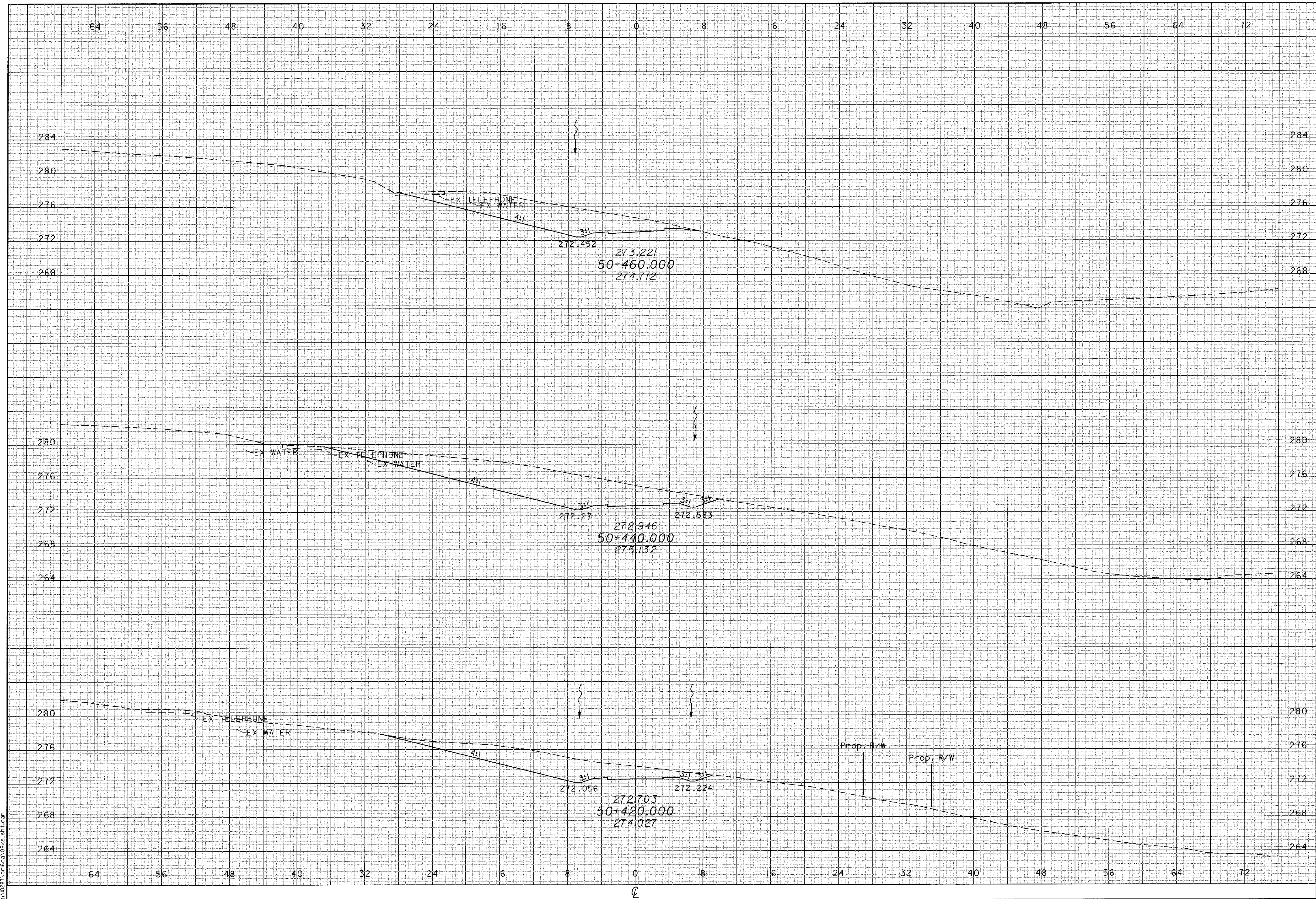
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CROSS SECTIONS
CR 16 - STA 50+420 TO STA 50+460

ATH-33-30.981

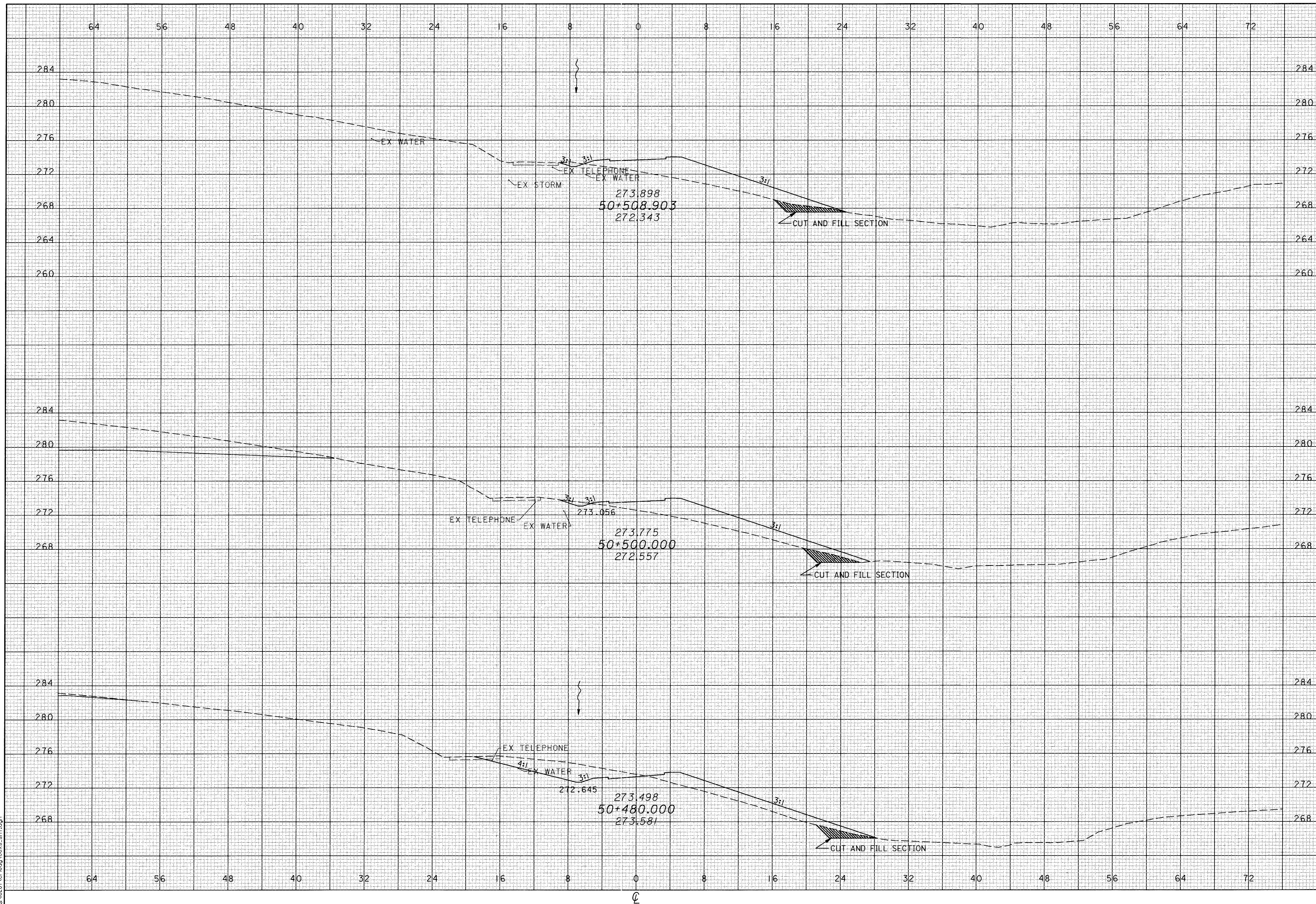
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956

CALCULATED
TAL
CHECKED
PRS



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16 JAN 2001 16:09:54
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+480 TO STA 50+508.903

ATH-33-30.981

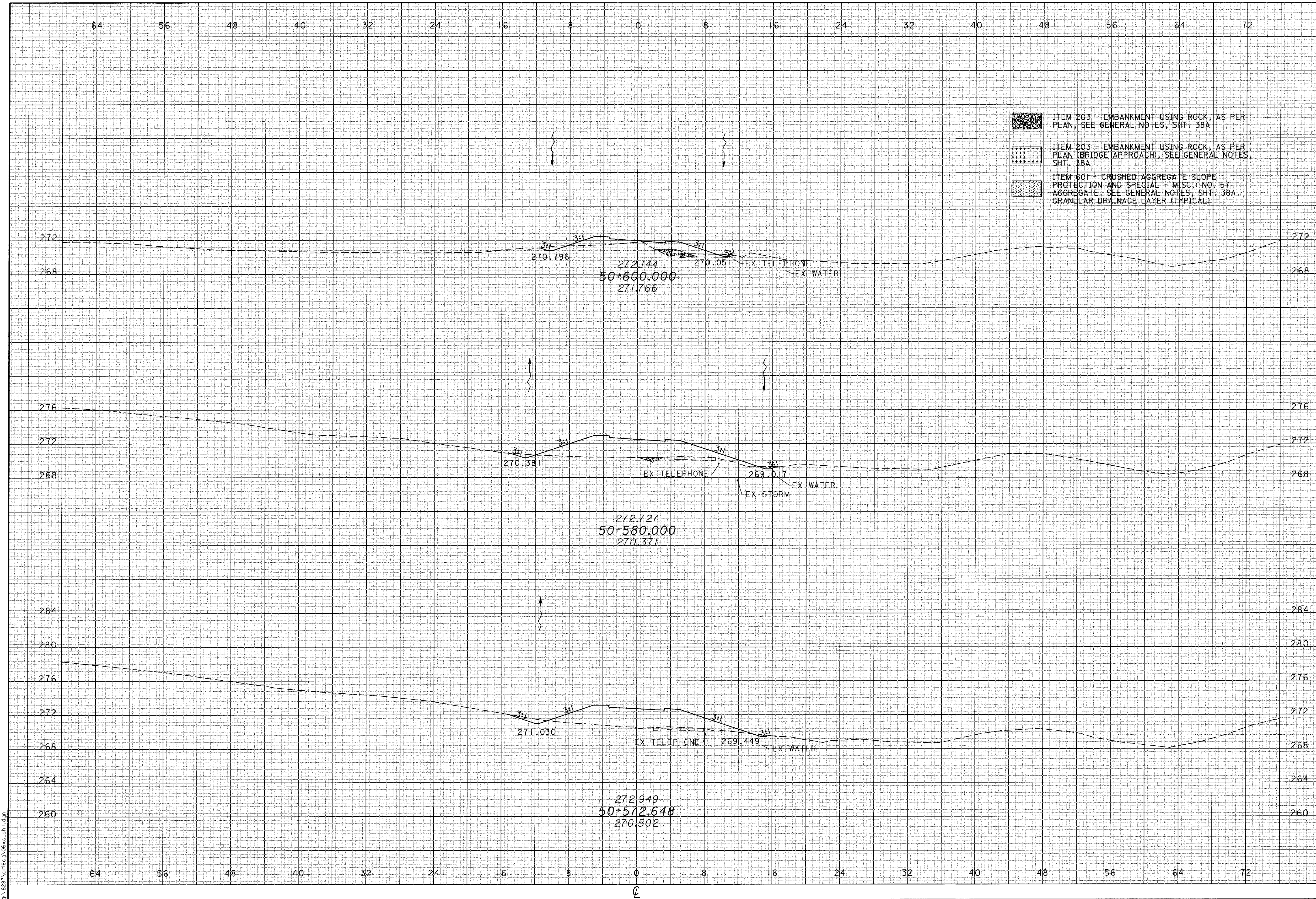
651
956

CALCULATED
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CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+572.648 TO STA 50+600

ATH-33-30.981

652
956



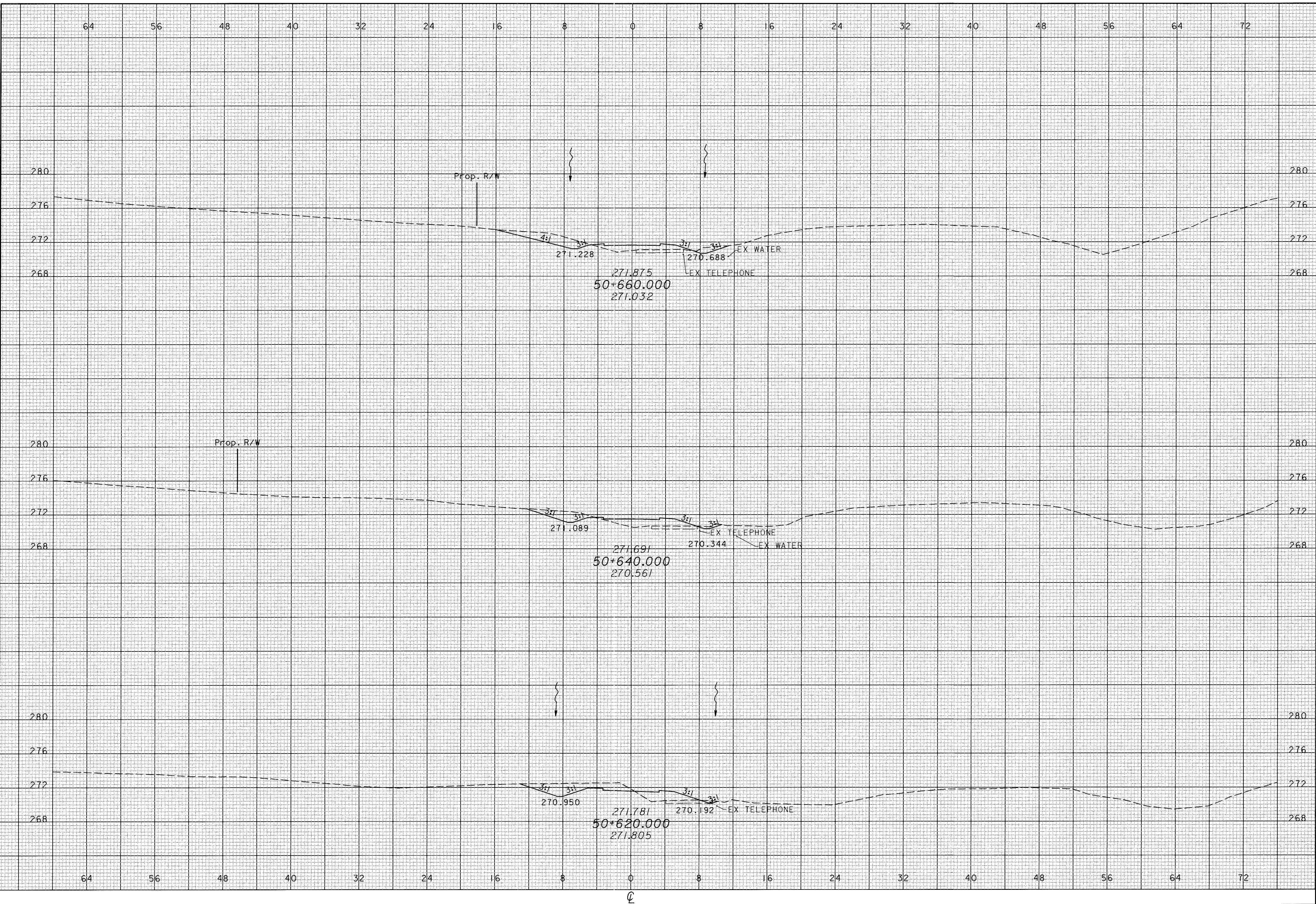
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CROSS SECTIONS
CR 16 - STA 50+620 TO STA 50+660

ATH-33-30.981

653
956

CALCULATED
TAL
CHECKED
PRS



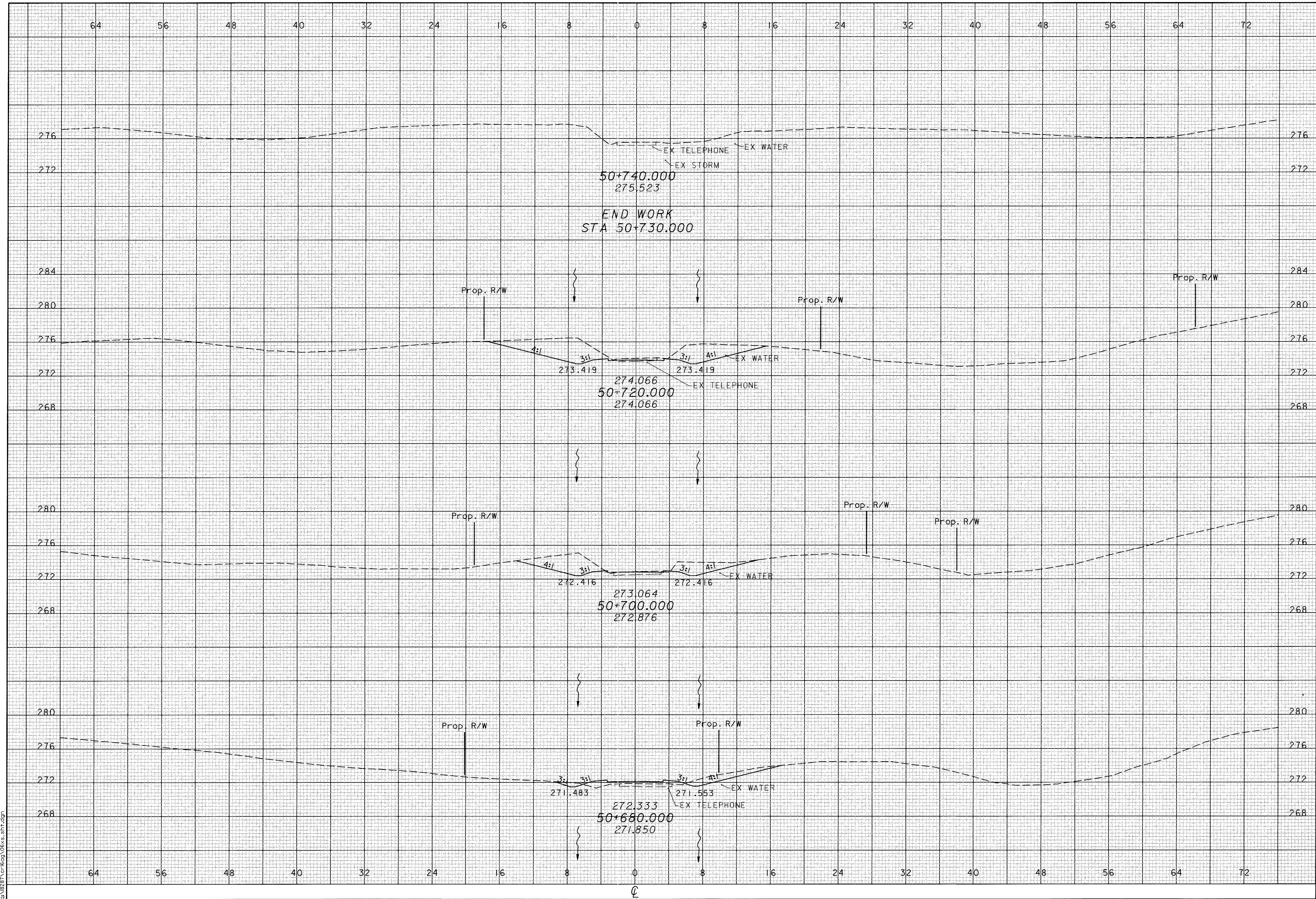
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CALCULATED
TAL
CHECKED
PRS

CROSS SECTIONS
CR 16 - STA 50+680 TO STA 50+740

ATH-33-30.981

654
956



16 JAN 2001 16:09:59
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LINK: 0/365/100/SIDE EARTH

COUNTY ROAD 16

STATION	NOMINAL CUT		NOMINAL FILL		203 EXCAVATION		203 EMBANKMENT		203 EMBANKMENT USING ROCK, AS PER PLAN		601 CRUSHED AGGREGATE SLOPE PROTECTION		870 SEEDING AND MULCHING		SPECIAL MISC.: NO. 57 AGGREGATE			
	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	VOLUME C.M.	VOLUME C.M.	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	LENGTH	AREA SQ. M.	END AREA	VOLUME C.M.		
50+095.000	0.00		0.00									0.00						
		3.08		0.00	3.08	0.00							19.08					
50+100.000	1.23		0.00									7.63						
		56.40		30.40	56.40	30.40							285.38					
50+120.000	4.41		3.04									20.91						
		314.20		46.60	314.20	46.60							486.20					
50+140.000	27.01		1.62									27.71						
		334.20		317.70	334.20	317.70							575.88					
50+160.000	6.41		30.15									29.88						
		140.00		1374.40	140.00	1374.40							834.99					
50+180.000	7.59		107.29									53.62						
		97.80		4859.40	97.80	4859.40							1289.64					
50+200.000	2.19		378.65									75.34						
		65.60		6491.20	65.60	6491.20							1391.93					
50+220.000	4.37		270.47									63.85						
		59.80		3271.10	59.80	3271.10							958.89					
50+240.000	1.61		56.64									32.04						
		591.80		566.40	591.80	566.40							618.19					
50+260.000	57.57		0.00									29.78						
		2454.50		0.00	2454.50	0.00							733.63					
50+280.000	187.88		0.00									43.58						
		3554.50		0.00	3554.50	0.00							872.90					
50+300.000	167.57		0.00									43.71						
		3452.00		0.00	3452.00	0.00							912.78					
50+320.000	177.63		0.00									47.57						
		3502.70		0.00	3502.70	0.00							977.06					
50+340.000	172.64		0.00									50.14						
		2966.70		0.00	2966.70	0.00							1030.21					
50+360.000	124.03		0.00									52.88						
		2235.50		0.00	2235.50	0.00							1030.74					
50+380.000	99.52		0.00									50.19						
		1264.20		37.30	1264.20	37.30							942.49					
50+400.000	26.90		3.73									44.06						
		852.00		37.30	852.00	37.30							787.35					
50+420.000	58.30		0.00									34.68						
		1654.40		0.00	1654.40	0.00							772.78					
50+440.000	107.14		0.00									42.60						
		1763.30		0.00	1763.30	0.00							738.62					
50+460.000	69.19		0.00									31.26						
		924.00		236.80	924.00	236.80							749.28					
50+480.000	23.21		23.68									43.67						
		241.90		622.90	241.90	622.90							762.39					
50+500.000	0.98		38.61									32.57						
		8.10		361.20	8.10	361.20							276.79					
50+508.903	0.84		42.53									29.61						
		0.00		0.00	0.00	0.00							1788.53					
50+572.648	1.48		37.24				0.00					26.51						
		9.48		281.91	9.48	281.91		1.72					197.55					
50+580.000	1.10		39.45				0.47					27.25						
		23.50		522.20	23.50	522.20		20.41					453.67					
50+600.000	1.25		12.77				1.57					18.12						
		125.40		184.70	125.40	184.70		15.74					365.79					
SHEET TOTAL	CARRIED TO SHEET 656				26695.06	19241.51							19852.74					

CALCULATED
SSC
CHECKED
PRS

ESTIMATED CROSS SECTION QUANTITIES
CR 16 - STA. 50+095.000 TO STA. 50+600.000

ATH-33-30.981

655
956



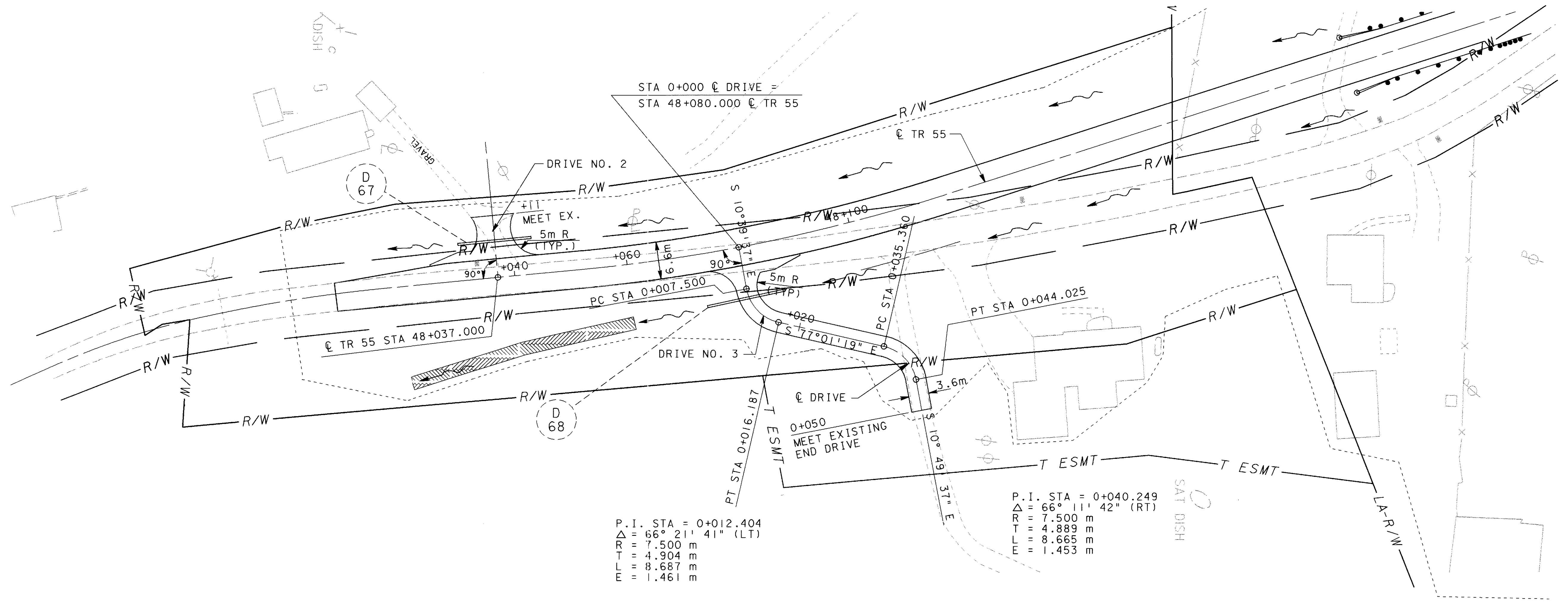
SCALE 1:400
HORIZONTAL
SCALE IN METERS

CALCULATED
PRS
CHECKED
AM

DRIVEWAY DETAILS - TR 55

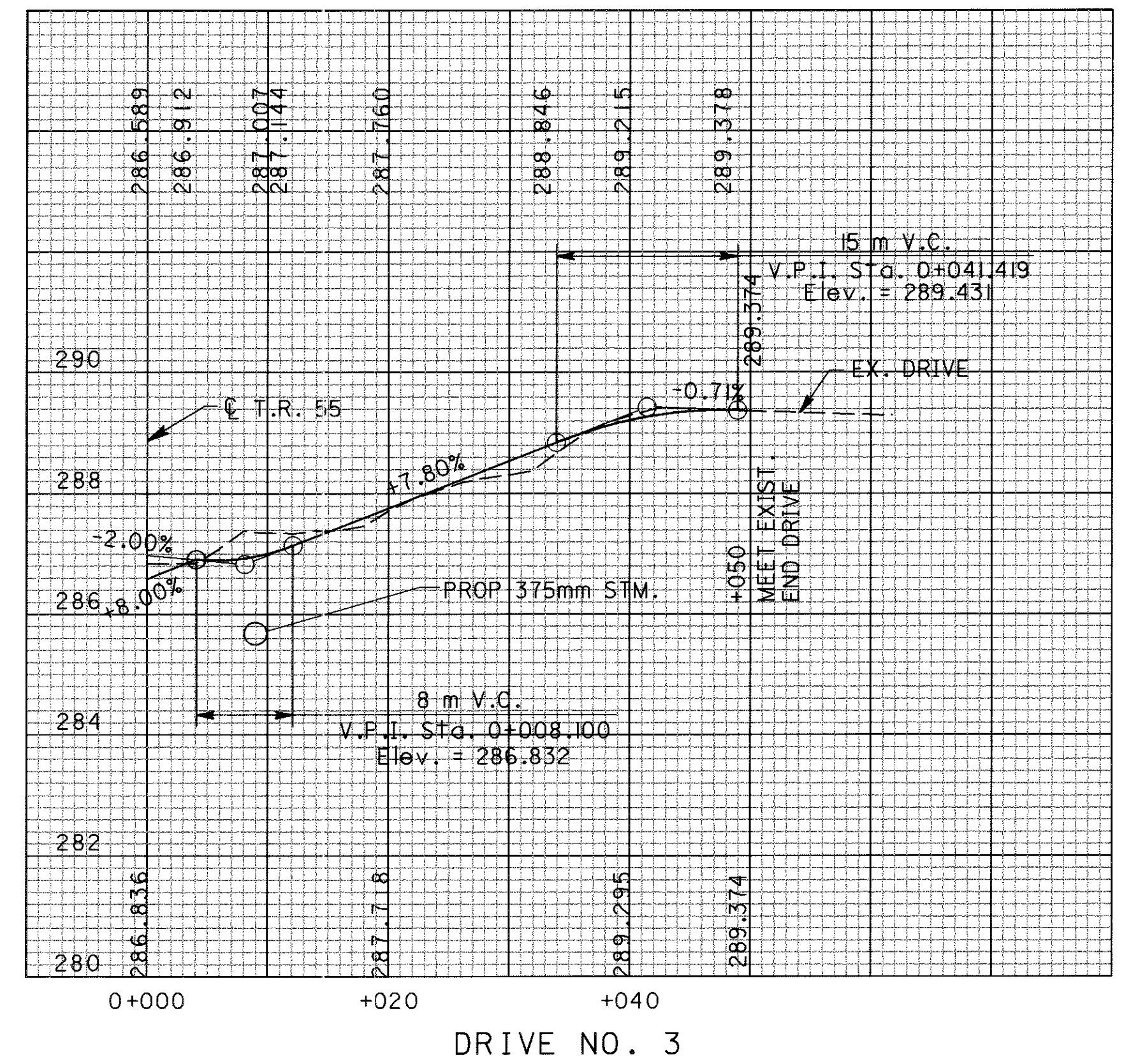
ATH-33-30.981

657
956

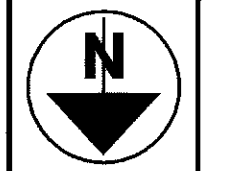


P.I. STA = 0+012.404
 $\Delta = 66^\circ 21' 41''$ (LT)
 R = 7.500 m
 T = 4.904 m
 E = 8.687 m
 F = 1.461 m

P.I. STA = 0+040.249
 $\Delta = 66^\circ 11' 42''$ (RT)
 R = 7.500 m
 T = 4.889 m
 E = 8.665 m
 F = 1.453 m



FOR DRIVE NO. 2 CULVERT, SEE SHEET 604
 FOR DRIVE NO. 2 PROFILE, SEE SHEET 604
 FOR DRIVE NO. 3 CULVERT, SEE SHEET 605
 FOR PAVEMENT QUANTITIES, SEE SHEET 76 TO 79
 FOR TR 55 DETAILS, SEE SHEET 600 TO 602



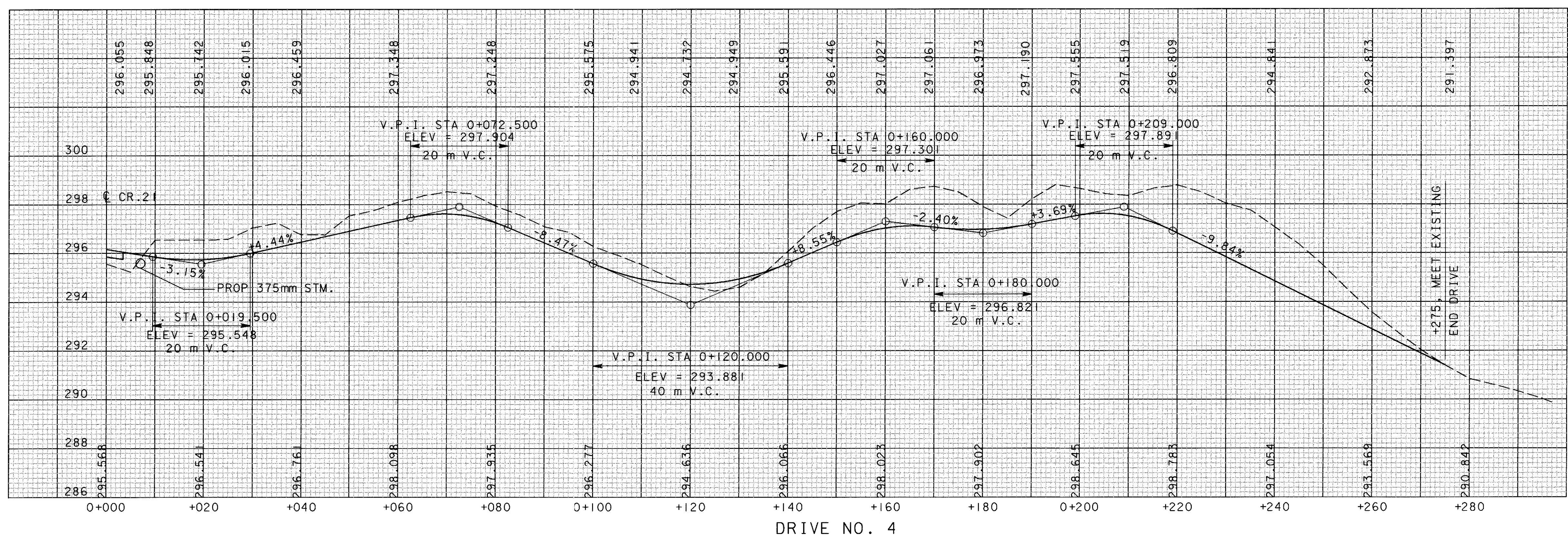
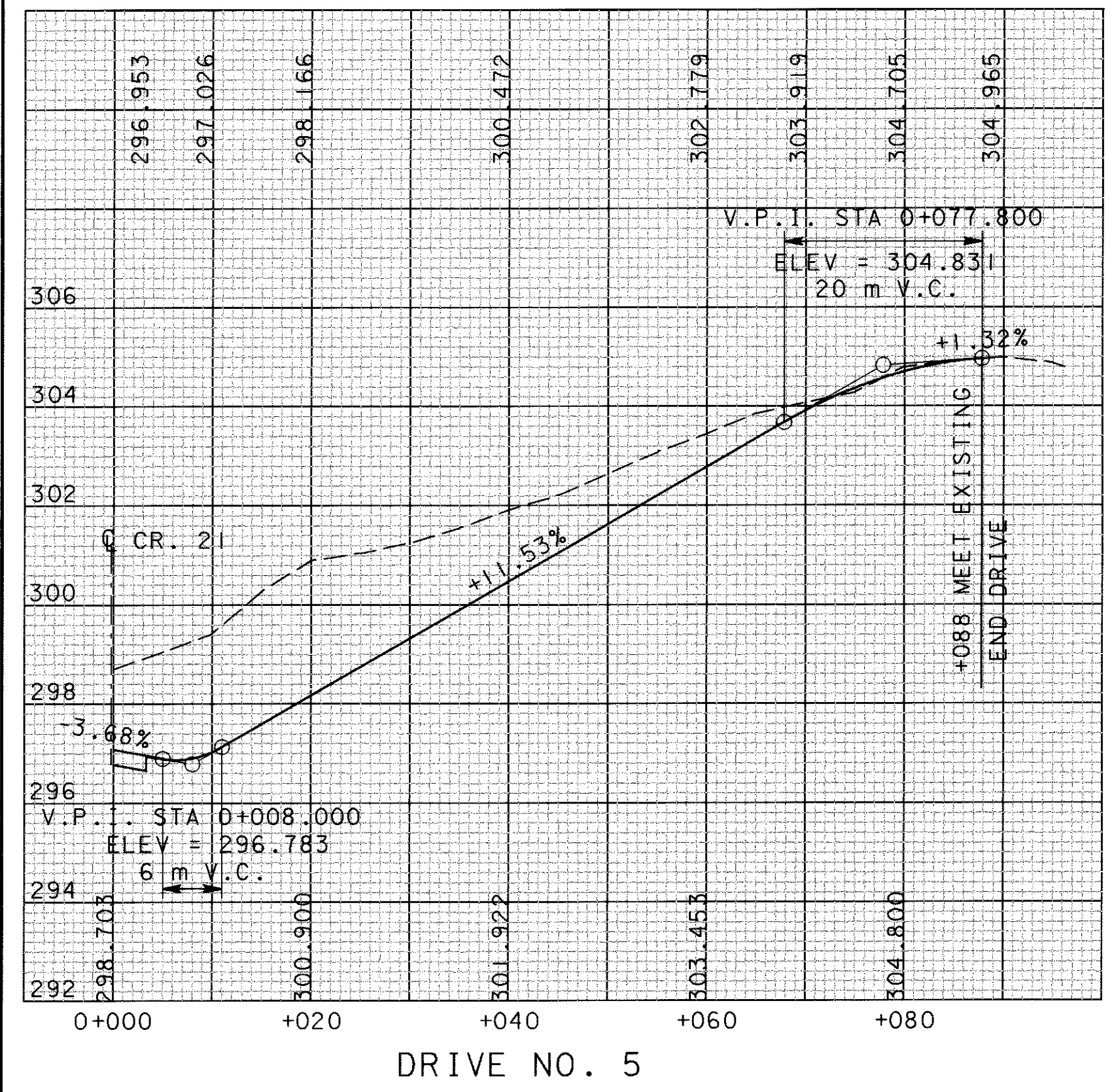
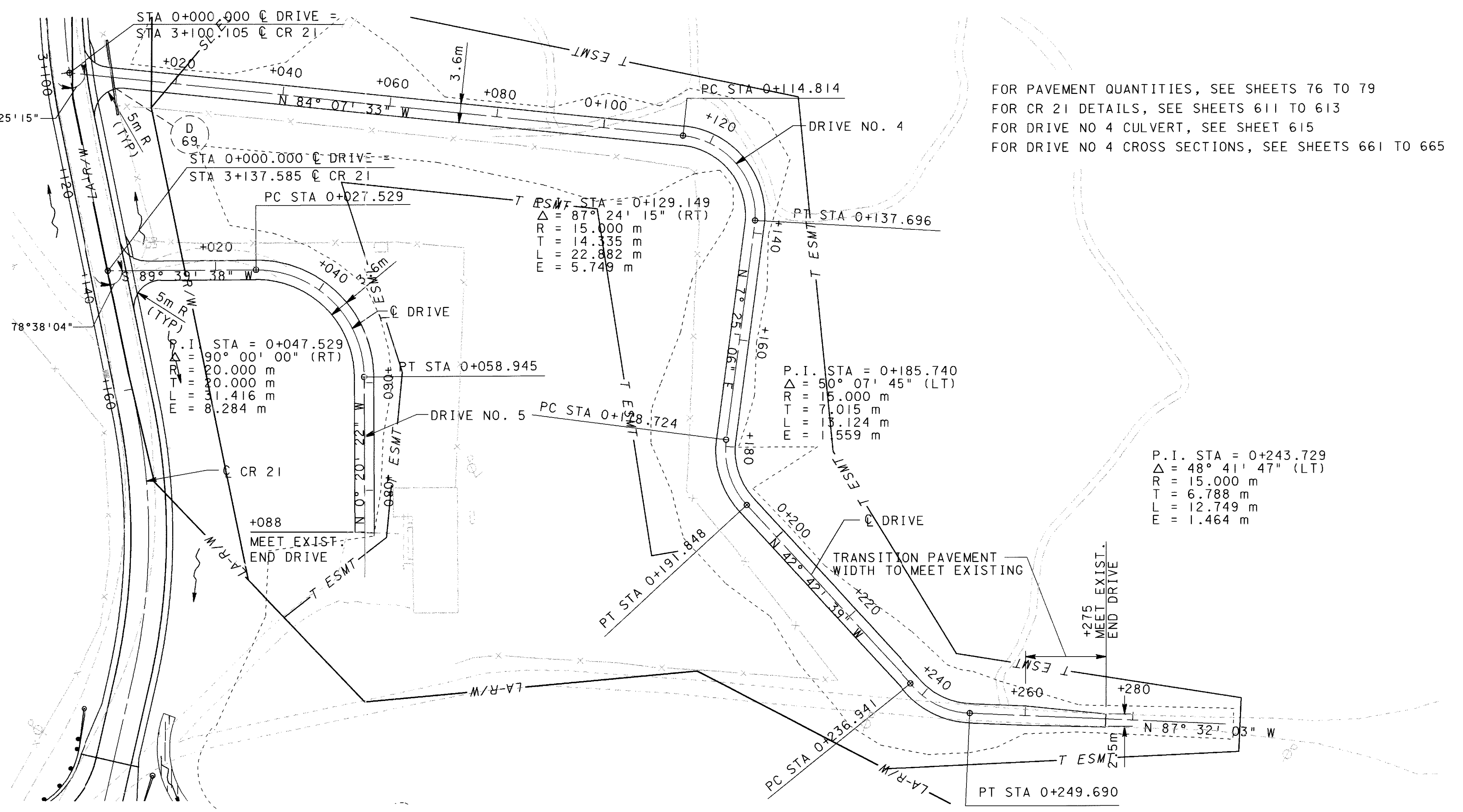
SCALE 1:500
HORIZONTAL
SCALE IN METERS

CALCULATED
PRS
CHECKED
AM

DRIVEWAY DETAILS - CR 21

ATH-33-30.981

FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79
FOR CR 21 DETAILS, SEE SHEETS 611 TO 613
FOR DRIVE NO 4 CULVERT, SEE SHEET 615
FOR DRIVE NO 4 CROSS SECTIONS, SEE SHEETS 661 TO 665





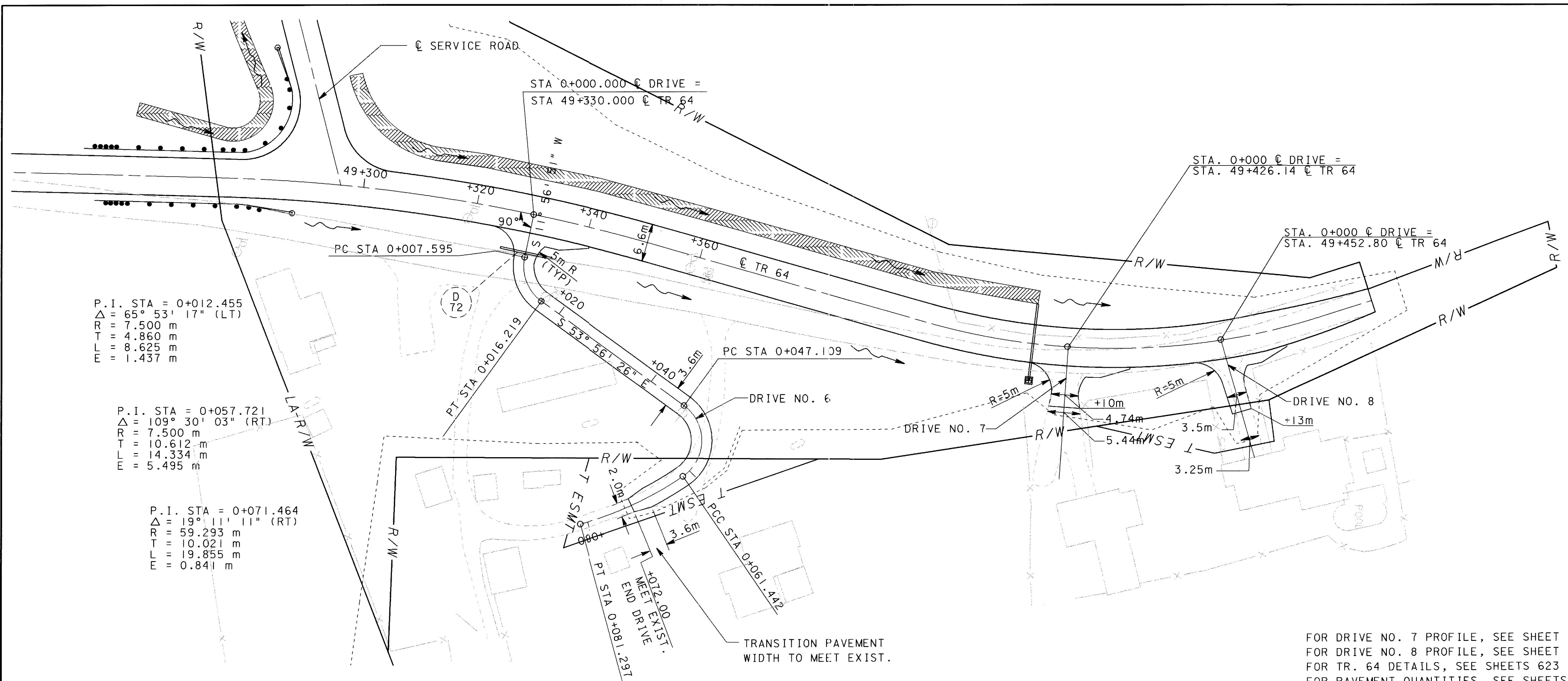
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HORIZONTAL
SCALE IN METERS

CALCULATED
PRS
CHECKED
AM

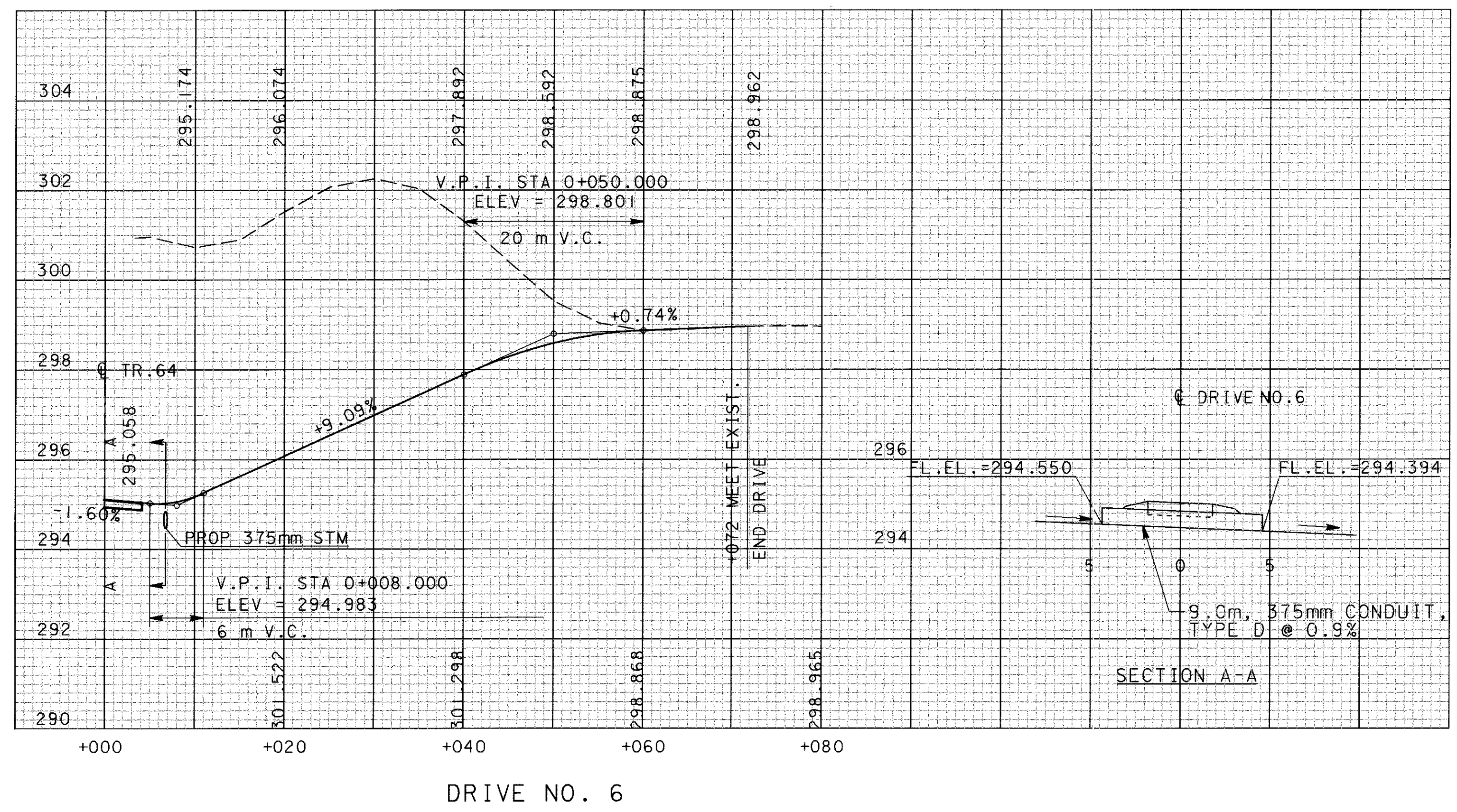
DRIVEWAY DETAILS - TR 64

ATH-33-30.981

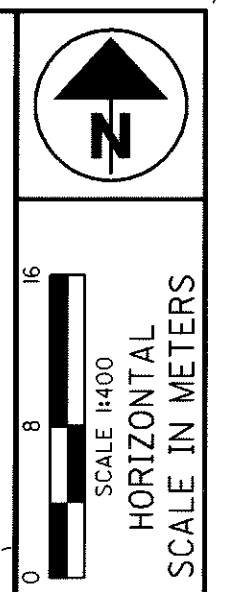
659
956



FOR DRIVE NO. 7 PROFILE, SEE SHEET 631
 FOR DRIVE NO. 8 PROFILE, SEE SHEET 631
 FOR TR. 64 DETAILS, SEE SHEETS 623 TO 625
 FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79



23 JAN 2001 659:55
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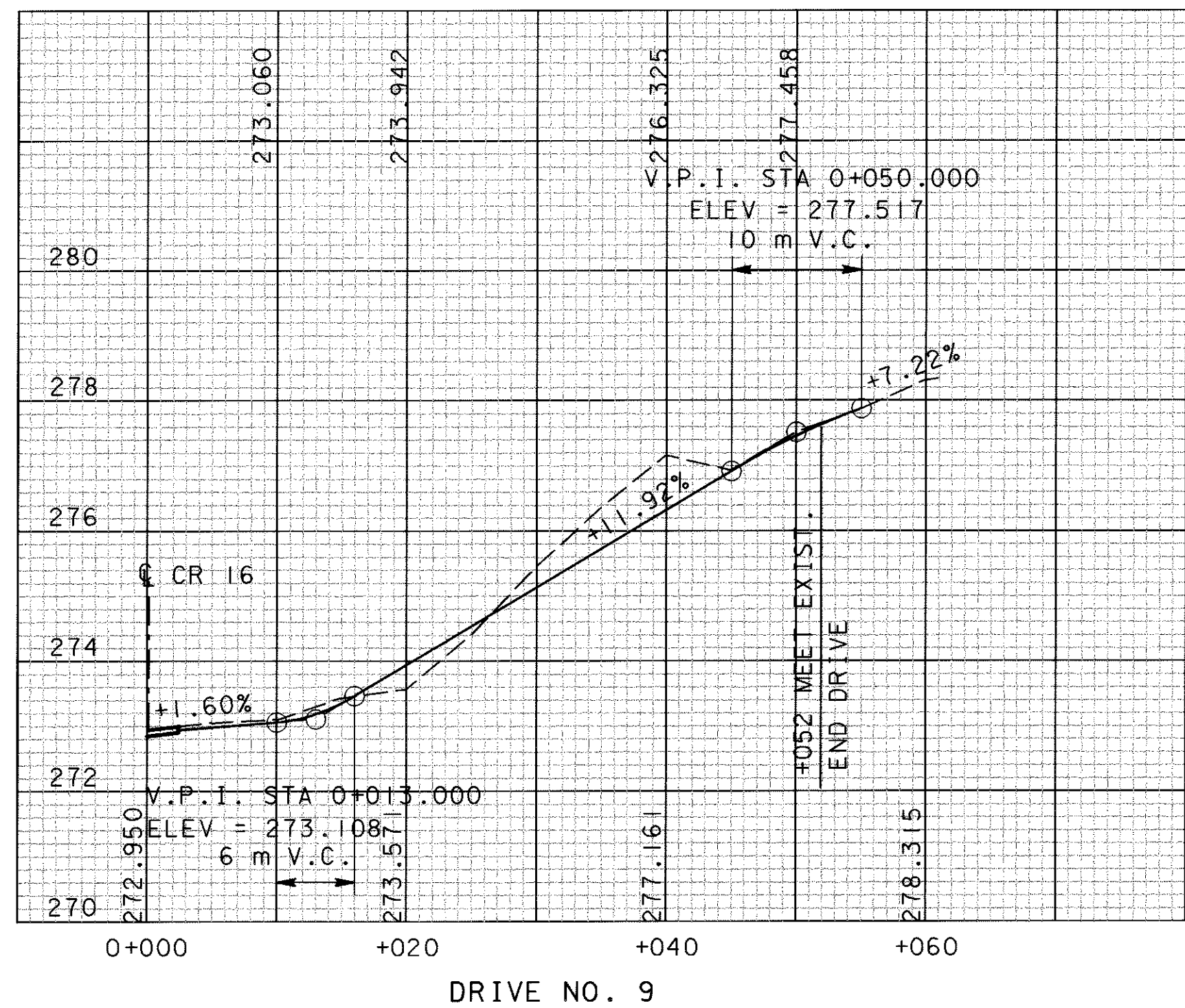


CALCULATED
PRS
CHECKED
AM

DRIVEWAY DETAILS - CR 16

ATH-33-30.981

660
956



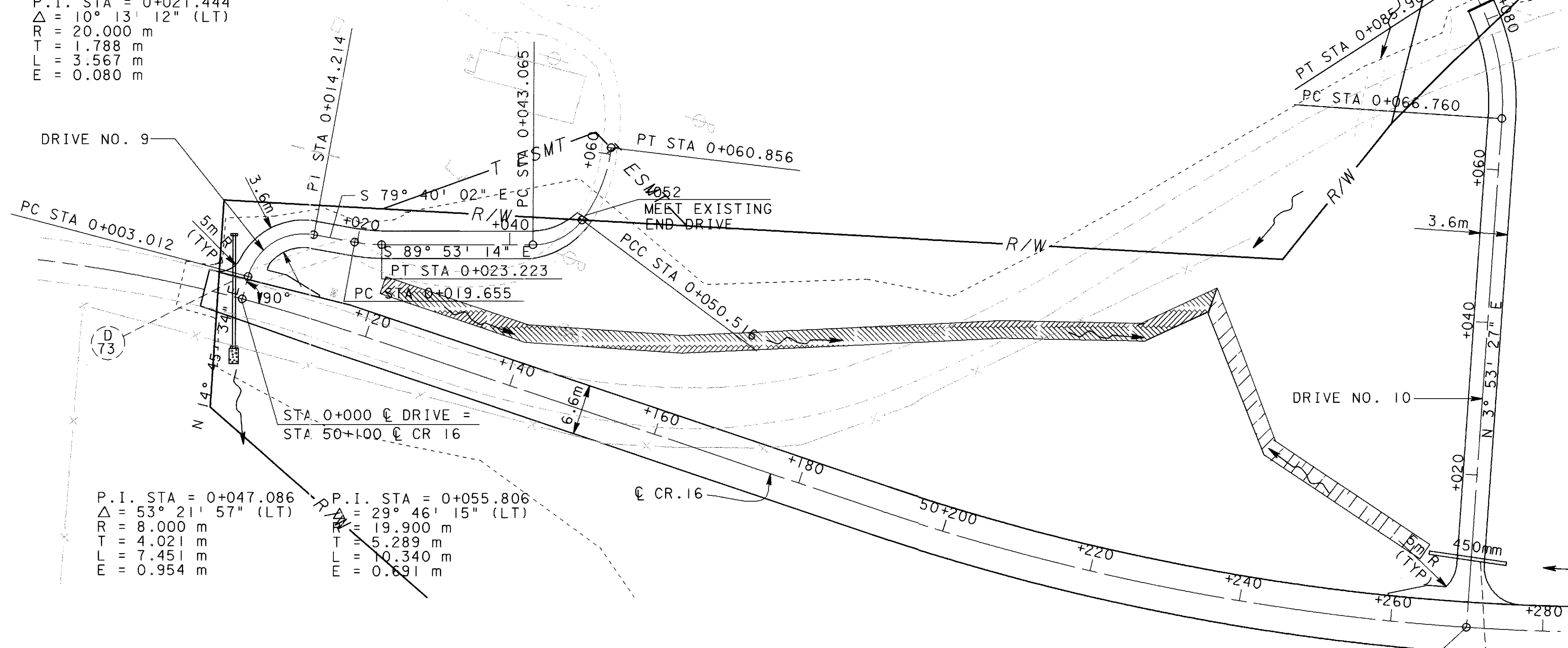
DRIVE NO. 9

FOR DRIVE NO 10 CROSS SECTIONS, SEE SHEETS 666 TO 668
FOR DRIVE NO 10 CULVERT, SEE SHEET 646
FOR CR16 DETAILS, SEE SHEETS 640 TO 643
FOR PAVEMENT QUANTITIES, SEE SHEETS 76 TO 79

P.I. STA = 0+009.954
Δ = 85° 34' 25" (RT)
R = 7.500 m
T = 6.942 m
L = 11.202 m
E = 2.720 m

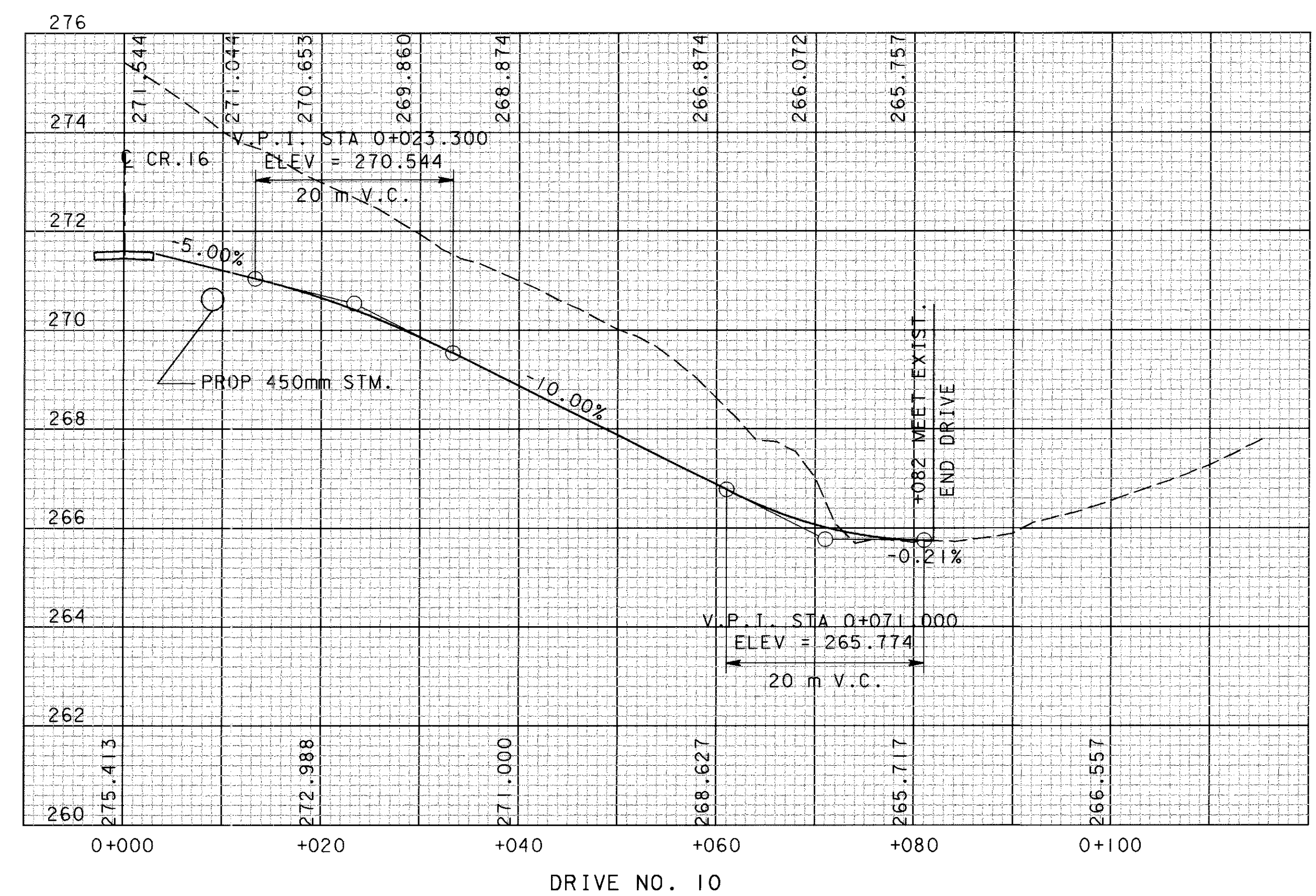
P.I. STA = 0+021.444
Δ = 10° 13' 12" (LT)
R = 20.000 m
T = 1.788 m
L = 3.567 m
E = 0.080 m

P.I. STA = 0+076.713
Δ = 36° 42' 27" (LT)
R = 30.000 m
T = 9.953 m
L = 19.220 m
E = 1.608 m



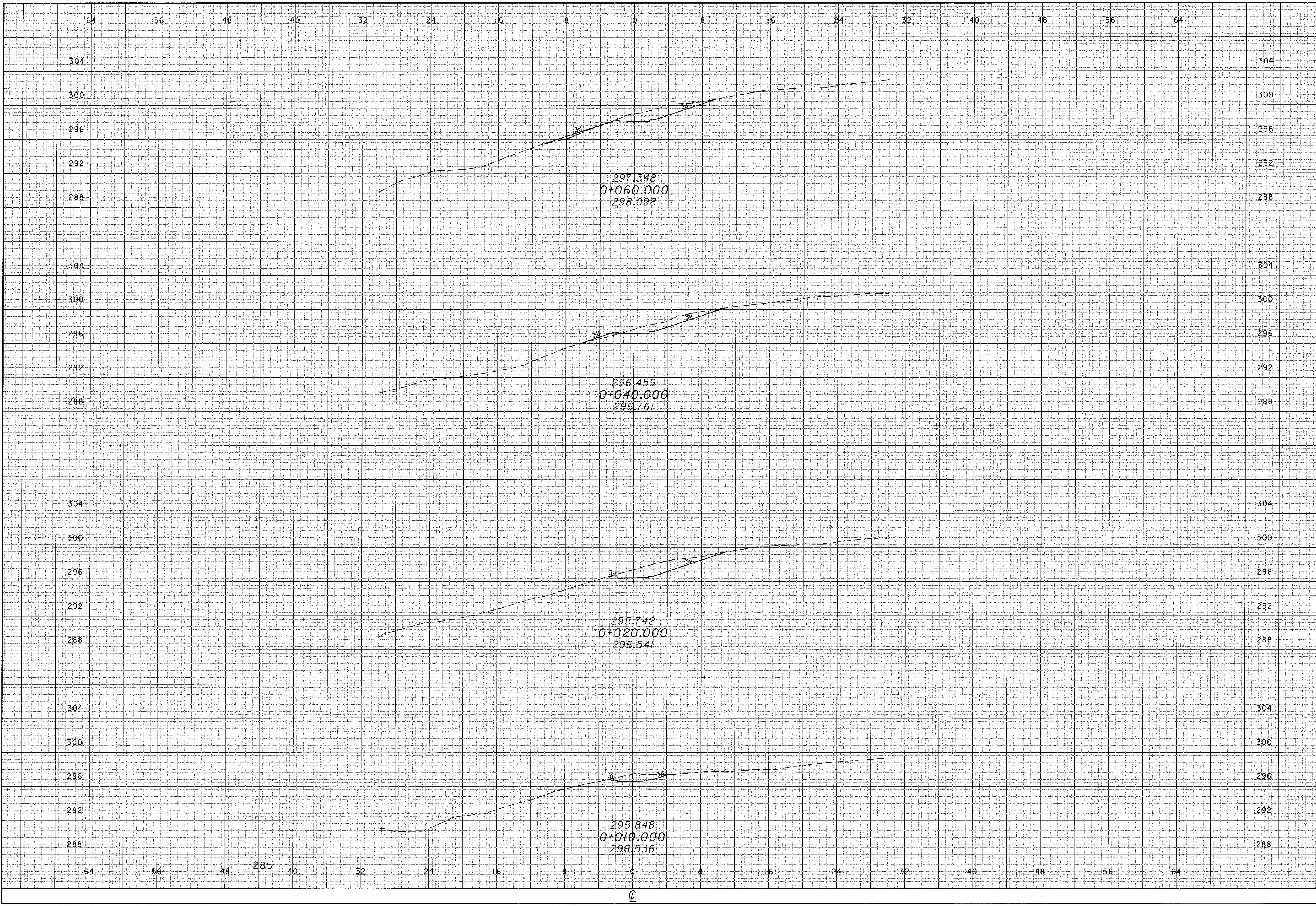
P.I. STA = 0+047.086
Δ = 53° 21' 57" (LT)
R = 8.000 m
T = 4.021 m
L = 7.451 m
E = 0.954 m

P.I. STA = 0+055.806
Δ = 29° 46' 15" (LT)
R = 19.900 m
T = 5.289 m
L = 10.340 m
E = 0.691 m



DRIVE NO. 10

16 JAN 2001 15:02:2
C:\MSD01\CR 21\CR01vs.sht.dgn

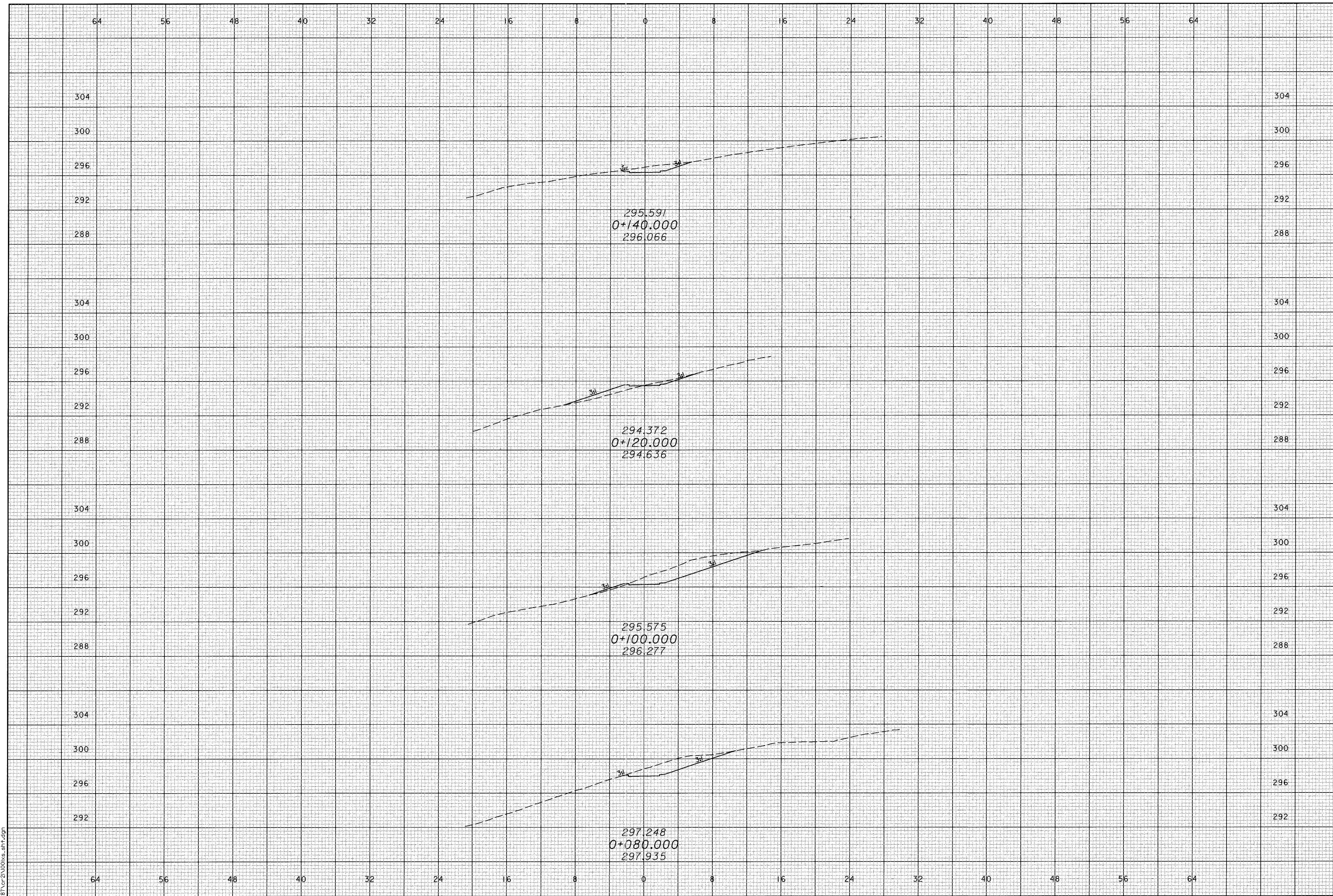


CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
CR 21 DRIVEWAY NO. 4 - STA 0+010 TO STA 0+060

ATH-33-30.981

16 JAN 2001 16:02
CR-21-21-001vs.sht.dgn

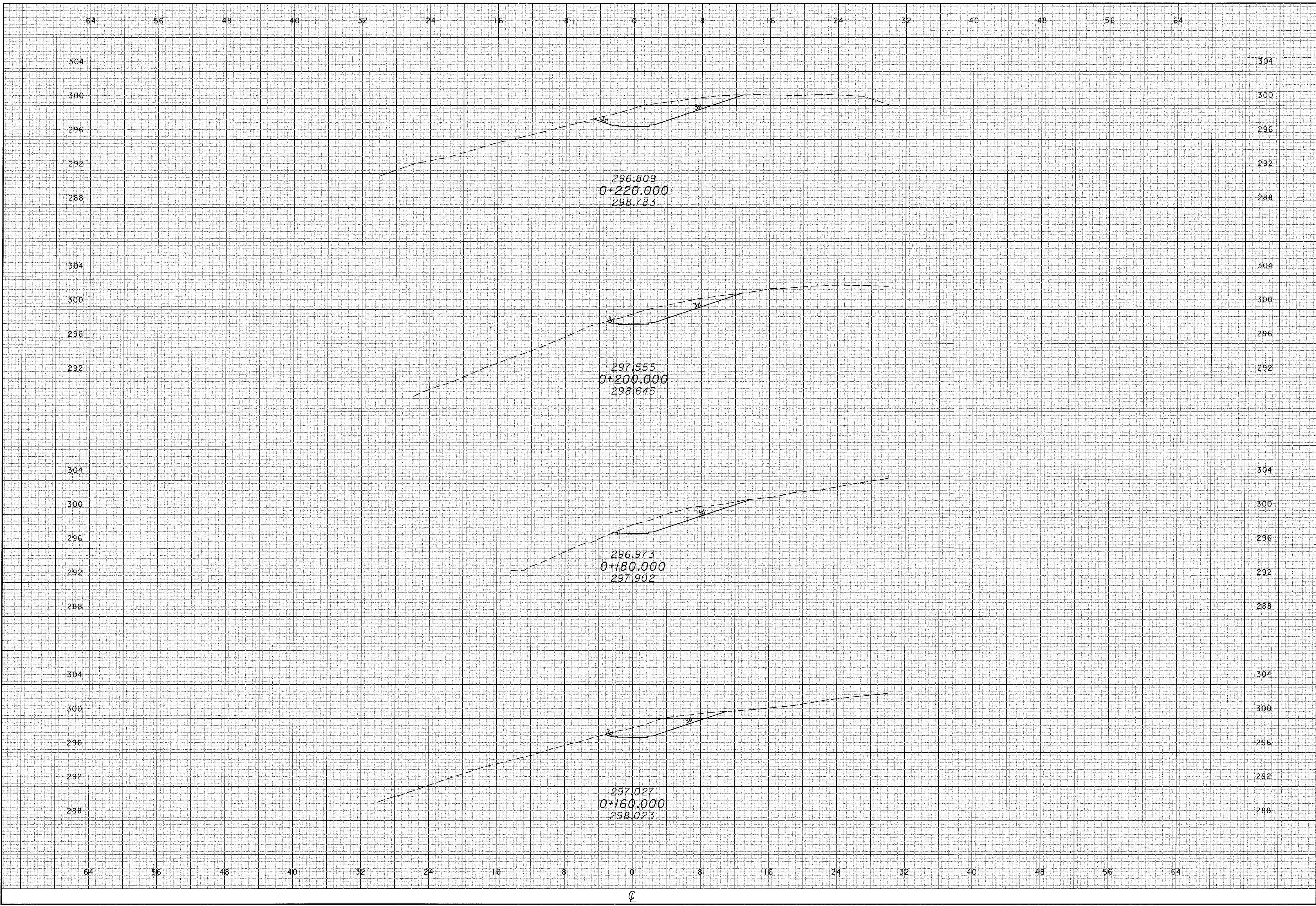


CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
CR 21 DRIVEWAY NO. 4 - STA 0+080 TO STA 0+140

ATH-33-30.981

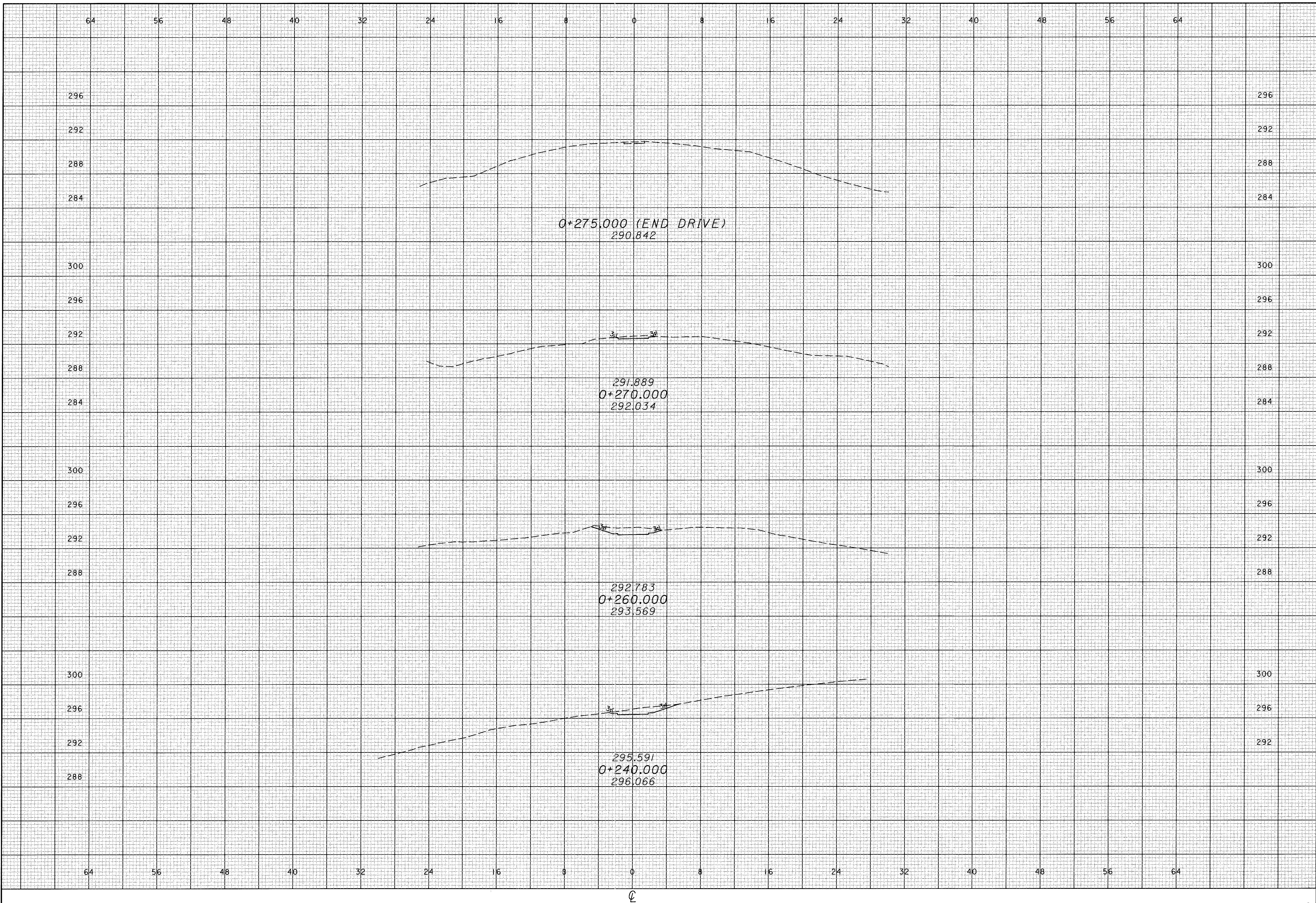
16 JAN 2001 15:04:33
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CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
CR 21 DRIVEWAY NO. 4 - STA 0+160 TO STA 0+220

ATH-33-30.981

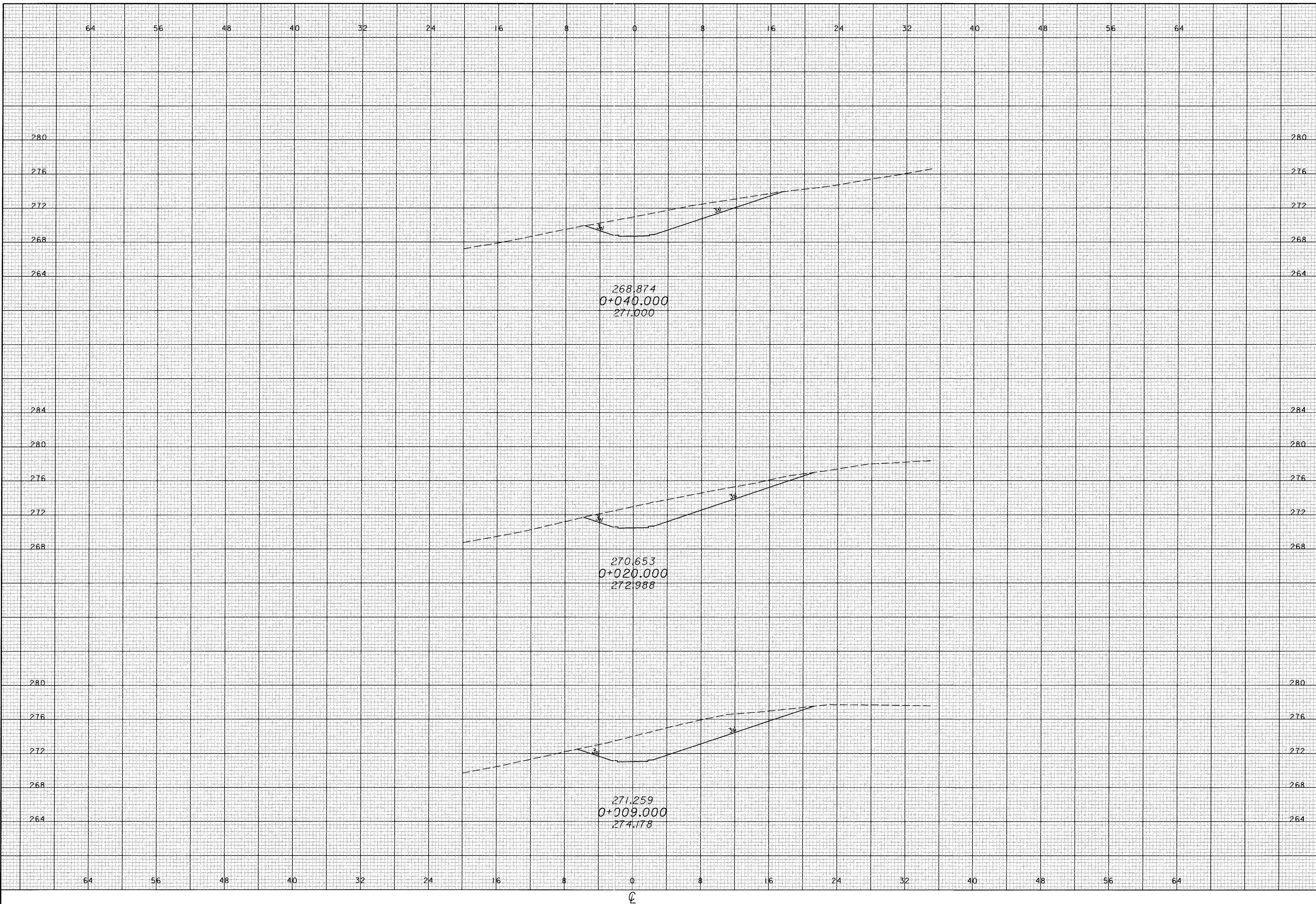


CALCULATED
PPS
CHECKED
TAL

CROSS SECTIONS
CR 21 DRIVEWAY NO. 4 - STA 0+240 TO STA 0+275

ATH-33-30.981

16 JAN 2001
G:\MSR\CR16\eg\270\cs_smt.dgn



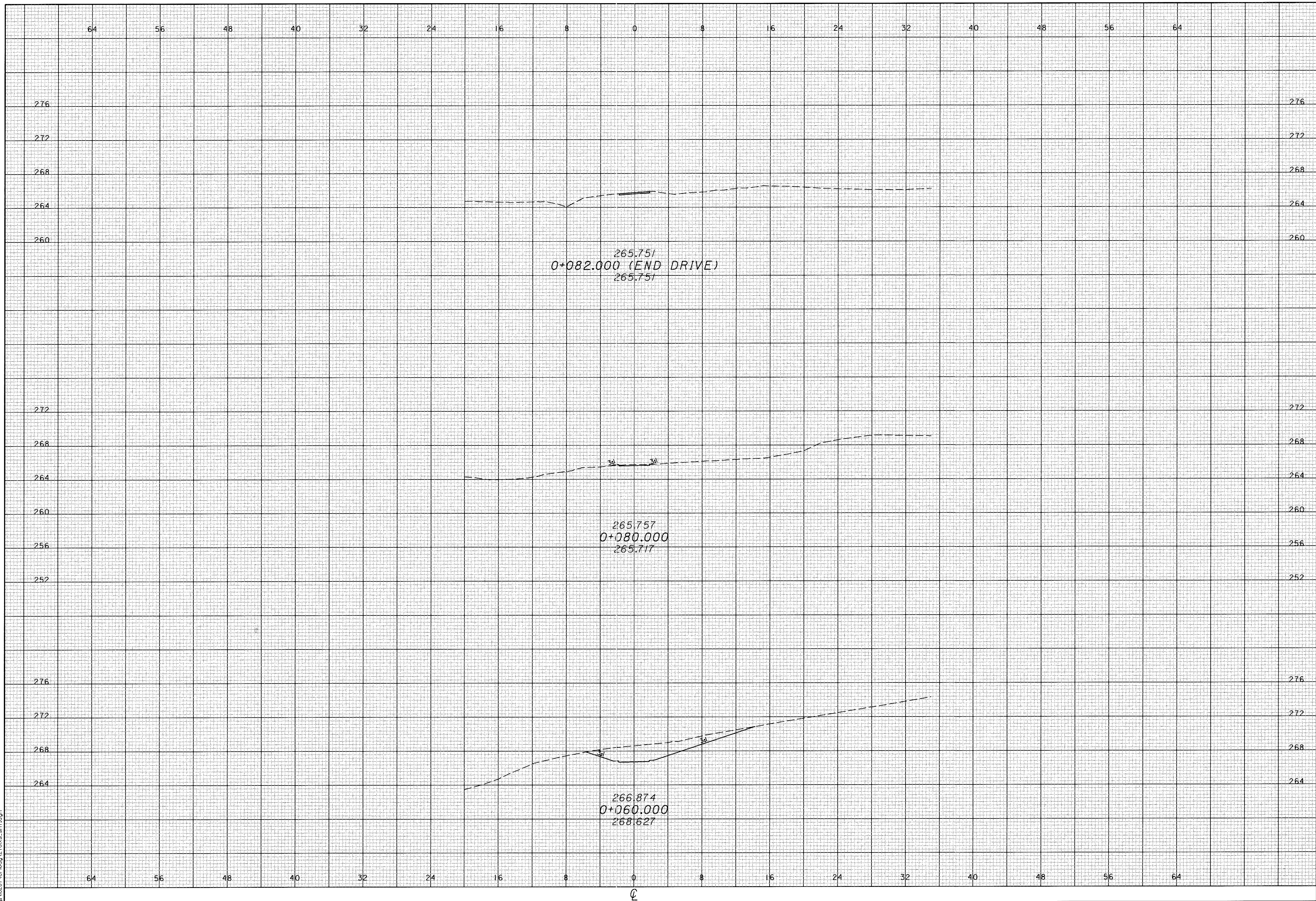
CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
CR 16 DRIVEWAY NO. 10 - STA 0+009 TO STA 0+040

ATH-33-30.981

666
956

16 JAN 2001 15:06:06
D:\2001\1600\1600\1600\1600.dgn



CALCULATED
PRS
CHECKED
TAL

CROSS SECTIONS
CR 16 DRIVEWAY NO. 10 - STA 0+060 TO STA 0+082

ATH-33-30.981

667
956

DRIVE 10

STATION	NOMINAL CUT		NOMINAL FILL		203 EXCAVATION		203 EMBANKMENT		203 EMBANKMENT USING ROCK, AS PER PLAN		601 CRUSHED AGGREGATE SLOPE PROTECTION		870 SEEDING AND MULCHING		SPECIAL MISC.: NO. 57 AGGREGATE				
	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	VOLUME C.M.	VOLUME C.M.	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	END AREA	VOLUME C.M.	LENGTH	AREA SQ. M.	END AREA	VOLUME C.M.			
0+009.000	55.99		0.00										26.62						
		540.82		0.00	540.82	0.00								525.40					
0+020.000	42.34		0.00										25.92						
		761.90		0.00	761.90	0.00								477.57					
0+040.000	33.85		0.00										21.83						
		561.90		0.00	561.90	0.00								401.62					
0+060.000	22.34		0.00										18.33						
		227.60		0.38	227.60	0.38								209.44					
0+080.000	0.42		0.03										2.62						
		0.42		0.03	0.42	0.03								3.27					
0+082.000	0.00		0.00										0.00						
SHEET TOTAL					2092.64	0.41								1617.30					
GRAND TOTAL	QUANTITIES CARRIED TO GENERAL SUMMARY				2093	1								1618					

CALCULATED	SSC
CHECKED	TAL

ESTIMATED CROSS SECTION QUANTITIES
C.R. 16 DRIVEWAY NO. 10 - STA. 0+009 TO STA. 0+082.000

ATH-33-30.981

SUPERELEVATION TABLE FOR 4-LANE ROADWAY

CURVE 1W

PI STA 29+419.534

R=1200.000 m

CALCULATED
SAW
CHECKED
PRS

REMARKS	OUTSIDE LANE					INSIDE LANE					PROFILE GRADE LINE		LEFT LANE					RIGHT LANE					REMARKS
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
BEGIN SE TRANS											29+280.000	214.498	3.600	-0.016	-0.058	1:245	214.441	3.600	-0.016	-0.058	1:245	214.383	BEGIN SE TRANS
											29+281.000	214.475	3.600	-0.016	-0.058	1:245	214.418	3.600	-0.016	-0.058	1:245	214.360	
											29+290.000	214.276	3.600	-0.021	-0.076	1:245	214.201	3.600	-0.021	-0.076	1:245	214.125	
											29+300.000	214.080	3.600	-0.027	-0.096	1:245	213.984	3.600	-0.027	-0.096	1:245	213.888	
											29+310.000	213.908	3.600	-0.032	-0.116	1:245	213.792	3.600	-0.032	-0.116	1:245	213.676	
PC/SC											29+320.000	213.761	3.600	-0.038	-0.136	1:245	213.625	3.600	-0.038	-0.136	1:245	213.489	PC/SC
											29+320.877	213.750	3.600	-0.038	-0.138	1:245	213.612	3.600	-0.038	-0.138	1:245	213.474	
											29+330.000	213.640	3.600	-0.043	-0.156	1:245	213.484	3.600	-0.043	-0.156	1:245	213.328	
BEGIN FULL SE											29+340.000	213.544	3.600	-0.049	-0.176	1:245	213.368	3.600	-0.049	-0.176	1:245	213.191	BEGIN FULL SE
											29+350.000	213.473	3.600	-0.049	-0.176	1:245	213.297	3.600	-0.049	-0.176	1:245	213.120	
											29+360.000	213.427	3.600	-0.049	-0.176	1:245	213.251	3.600	-0.049	-0.176	1:245	213.074	
											29+370.000	213.406	3.600	-0.049	-0.176	1:245	213.230	3.600	-0.049	-0.176	1:245	213.054	
											29+380.000	213.411	3.600	-0.049	-0.176	1:245	213.235	3.600	-0.049	-0.176	1:245	213.058	
											29+390.000	213.441	3.600	-0.049	-0.176	1:245	213.264	3.600	-0.049	-0.176	1:245	213.088	
											29+400.000	213.495	3.600	-0.049	-0.176	1:245	213.319	3.600	-0.049	-0.176	1:245	213.143	
											29+410.000	213.575	3.600	-0.049	-0.176	1:245	213.399	3.600	-0.049	-0.176	1:245	213.223	
											29+420.000	213.681	3.600	-0.049	-0.176	1:245	213.504	3.600	-0.049	-0.176	1:245	213.328	
											29+430.000	213.811	3.600	-0.049	-0.176	1:245	213.634	3.600	-0.049	-0.176	1:245	213.458	
											29+440.000	213.966	3.600	-0.049	-0.176	1:245	213.790	3.600	-0.049	-0.176	1:245	213.614	
											29+450.000	214.147	3.600	-0.049	-0.176	1:245	213.971	3.600	-0.049	-0.176	1:245	213.794	
											29+460.000	214.353	3.600	-0.049	-0.176	1:245	214.176	3.600	-0.049	-0.176	1:245	214.000	
											29+470.000	214.584	3.600	-0.049	-0.176	1:245	214.407	3.600	-0.049	-0.176	1:245	214.231	
											29+480.000	214.840	3.600	-0.049	-0.176	1:245	214.664	3.600	-0.049	-0.176	1:245	214.487	
											29+490.000	215.121	3.600	-0.049	-0.176	1:245	214.945	3.600	-0.049	-0.176	1:245	214.768	
END FULL SE											29+491.000	215.151	3.600	-0.049	-0.176	1:245	214.974	3.600	-0.049	-0.176	1:245	214.798	END FULL SE
											29+500.000	215.428	3.600	-0.044	-0.158	1:245	215.270	3.600	-0.044	-0.158	1:245	215.111	
											29+510.000	215.759	3.600	-0.038	-0.138	1:245	215.622	3.600	-0.038	-0.138	1:245	215.484	
PT/CS											29+517.748	216.032	3.600	-0.034	-0.122	1:245	215.910	3.600	-0.034	-0.122	1:245	215.788	PT/CS
											29+520.000	216.112	3.600	-0.033	-0.118	1:245	215.995	3.600	-0.033	-0.118	1:245	215.877	
											29+530.000	216.467	3.600	-0.027	-0.097	1:245	216.370	3.600	-0.027	-0.097	1:245	216.272	
											29+540.000	216.822	3.600	-0.021	-0.077	1:245	216.745	3.600	-0.021	-0.077	1:245	216.668	
REVERSE CROWN											29+549.592	217.163	3.600	-0.016	-0.058	1:245	217.105	3.600	-0.016	-0.058	1:245	217.047	REVERSE CROWN
											29+550.000	217.177	3.600	-0.016	-0.057	1:245	217.120	3.600	-0.016	-0.058	1:245	217.063	
											29+560.000	217.532	3.600	-0.010	-0.036	1:245	217.496	3.600	-0.016	-0.058	1:245	217.438	
HALF FLAT											29+570.000	217.887	3.600	-0.005	-0.016	1:245	217.871	3.600	-0.016	-0.058	1:245	217.813	HALF FLAT
											29+578.000	218.171	3.600	0.000	0.000	1:245	218.171	3.600	-0.016	-0.058	1:245	218.113	
END SE TRANS											29+580.000	218.242	3.600	0.001	0.004	1:245	218.246	3.600	-0.016	-0.058	1:245	218.188	END SE TRANS
											29+590.000	218.597	3.600	0.007	0.024	1:245	218.621	3.600	-0.016	-0.058	1:245	218.564	
											29+600.000	218.952	3.600	0.012	0.045	1:245	218.997	3.600	-0.016	-0.058	1:245	218.939	
											29+606.400	219.179	3.600	0.016	0.058	1:245	219.237	3.600	-0.016	-0.058	1:245	219.179	END SE TRANS
											29+610.000	219.307	3.600	0.016	0.058	1:245	219.365	3.600	-0.016	-0.058	1:245	219.307	

WESTBOUND US 33 MAINLINE SUPERELEVATION TABLE

ATH-033-30.981

05 FEB 2001 14:46:16
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SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 28+969.622

R=212.500 m

CURVE 1E

CALCULATED
SAW
CHECKED
PKS

REMARKS	LEFT LANE					RIGHT LANE					PROFILE GRADE LINE		RAMP A					OUTSIDE LANE					REMARKS
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
END FULL SE	220.702	1:245	-0.302	-0.084	3.600	221.004	1:245	-0.302	-0.084	3.600	29+013.000	221.306											END FULL SE
CS	220.699	1:245	-0.302	-0.084	3.600	221.001	1:245	-0.302	-0.084	3.600	29+013.166	221.303											CS
	220.621	1:245	-0.288	-0.080	3.600	220.909	1:245	-0.288	-0.080	3.600	29+020.000	221.197											
	220.488	1:245	-0.268	-0.074	3.600	220.756	1:245	-0.268	-0.074	3.600	29+030.000	221.024											
	220.338	1:245	-0.248	-0.069	3.600	220.585	1:245	-0.248	-0.069	3.600	29+040.000	220.833											
	220.168	1:245	-0.227	-0.063	3.600	220.395	1:245	-0.227	-0.063	3.600	29+050.000	220.622											
	219.978	1:245	-0.207	-0.058	3.600	220.185	1:245	-0.207	-0.058	3.600	29+060.000	220.392											
	219.770	1:245	-0.187	-0.052	3.600	219.956	1:245	-0.187	-0.052	3.600	29+070.000	220.143											
	219.542	1:245	-0.166	-0.046	3.600	219.708	1:245	-0.166	-0.046	3.600	29+080.000	219.875											
	219.295	1:245	-0.146	-0.041	3.600	219.441	1:245	-0.146	-0.041	3.600	29+090.000	219.587											
	219.029	1:245	-0.126	-0.035	3.600	219.155	1:245	-0.126	-0.035	3.600	29+100.000	219.281											
	218.745	1:245	-0.106	-0.029	3.600	218.850	1:245	-0.106	-0.029	3.600	29+110.000	218.956											
	218.456	1:245	-0.085	-0.024	3.600	218.541	1:245	-0.085	-0.024	3.600	29+120.000	218.626											
	218.166	1:245	-0.065	-0.018	3.600	218.231	1:245	-0.065	-0.018	3.600	29+130.000	218.296											
REVERSE CROWN	218.060	1:245	-0.058	-0.016	3.600	218.118	1:245	-0.058	-0.016	3.600	29+133.619	218.176											REVERSE CROWN
	217.863	1:245	-0.058	-0.016	3.600	217.921	1:245	-0.045	-0.012	3.600	29+140.000	217.966											
	217.554	1:245	-0.058	-0.016	3.600	217.612	1:245	-0.024	-0.007	3.600	29+150.000	217.636	0.866	0.007	0.006	1:245	217.642						
	217.318	1:245	-0.058	-0.016	3.600	217.376	1:245	-0.009	-0.002	3.600	29+157.600	217.385	1.778	0.002	0.004	1:245	217.389						

EASTBOUND US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

05 FEB 2001 1447:00
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SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 29+369.824

R=520.000 m

CURVE 2E

EASTBOUND US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

671
956

REMARKS	LEFT LANE					RIGHT LANE					PROFILE GRADE LINE		RAMP A					OUTSIDE LANE					REMARKS
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
BEGIN SE TRANS	217.319	1:245	-0.058	-0.016	3.600	217.376	1:245	-0.009	-0.002	3.600	29+157.600	217.385	1.778	0.002	0.004	1:245	217.389						BEGIN SE TRANS
	217.249	1:245	-0.053	-0.015	3.600	217.302	1:245	-0.004	-0.001	3.600	29+160.000	217.306	2.064	0.001	0.002	1:245	217.308						
	217.191	1:245	-0.049	-0.014	3.600	217.240	1:245	0.000	0.000	3.600	29+162.000	217.240	2.304	0.000	0.000	1:245	217.240						
	216.960	1:245	-0.032	-0.009	3.600	216.992	1:245	0.016	0.005	3.600	29+170.000	216.976	3.266	-0.005	-0.016	1:245	216.960						
	216.671	1:245	-0.012	-0.003	3.600	216.683	1:245	0.037	0.010	3.600	29+180.000	216.646	3.600	-0.010	-0.036	1:245	216.610						
HALF FLAT	216.497	1:245	0.000	0.000	3.600	216.497	1:245	0.049	0.014	3.600	29+186.000	216.448	3.600	-0.014	-0.050	1:245	216.398						HALF FLAT
	216.381	1:245	0.008	0.002	3.600	216.373	1:245	0.057	0.016	3.600	29+190.000	216.316	3.606	-0.016	-0.058	1:245	216.258						
	216.370	1:245	0.009	0.002	3.600	216.361	1:245	0.058	0.016	3.600	29+190.381	216.303	3.600	-0.016	-0.058	1:245	216.245						
	216.072	1:245	0.028	0.008	3.600	216.044	1:245	0.058	0.016	3.600	29+200.000	215.986	3.600	-0.016	-0.058	1:245	215.928						
	215.762	1:245	0.049	0.014	3.600	215.714	1:245	0.058	0.016	3.600	29+210.000	215.656	3.602	-0.016	-0.058	1:245	215.598						
REVERSE CROWN	215.626	1:245	0.058	0.016	3.600	215.568	1:245	0.058	0.016	3.600	29+214.400	215.510	3.606	-0.016	-0.058	1:245	215.452						REVERSE CROWN
	215.468	1:245	0.069	0.019	3.600	215.399	1:245	0.069	0.019	3.600	29+220.000	215.330	3.617	-0.019	-0.069	1:245	215.261						
	215.204	1:245	0.089	0.025	3.600	215.114	1:245	0.089	0.025	3.600	29+230.000	215.025	3.654	-0.025	-0.091	1:245	214.934						
	214.962	1:245	0.110	0.030	3.600	214.853	1:245	0.110	0.030	3.600	29+240.000	214.743	3.720	-0.030	-0.113	1:245	214.630						
	214.744	1:245	0.130	0.036	3.600	214.614	1:245	0.130	0.036	3.600	29+250.000	214.484	3.824	-0.036	-0.138	1:245	214.346						
	214.547	1:245	0.150	0.042	3.600	214.397	1:245	0.150	0.042	3.600	29+260.000	214.247	3.973	-0.042	-0.166	1:245	214.081						
	214.375	1:245	0.170	0.047	3.600	214.204	1:245	0.170	0.047	3.600	29+270.000	214.034	4.174	-0.047	-0.198	1:245	213.836						
	214.225	1:245	0.191	0.053	3.600	214.034	1:245	0.191	0.053	3.600	29+280.000	213.843	4.434	-0.053	-0.235	1:245	213.608						
	214.097	1:245	0.211	0.059	3.600	213.886	1:245	0.211	0.059	3.600	29+290.000	213.675	4.761	-0.059	-0.279	1:245	213.396						
	213.993	1:245	0.231	0.064	3.600	213.762	1:245	0.231	0.064	3.600	29+300.000	213.530	5.162	-0.064	-0.330	1:245	213.200						
	213.911	1:245	0.251	0.070	3.600	213.660	1:245	0.251	0.070	3.600	29+310.000	213.408	5.644	-0.070	-0.394	1:245	213.014						
	213.852	1:245	0.272	0.075	3.600	213.580	1:245	0.272	0.075	3.600	29+320.000	213.308	6.214	-0.075	-0.469	1:245	212.839						
SC	213.824	1:245	0.287	0.080	3.600	213.537	1:245	0.287	0.080	3.600	29+327.281	213.250	6.688	-0.080	-0.532	1:245	212.718						SC
BEGIN FULL SE	213.821	1:245	0.288	0.080	3.600	213.533	1:245	0.288	0.080	3.600	29+328.000	213.245	6.737	-0.080	-0.539	1:245	212.706						BEGIN FULL SE
	213.808	1:245	0.288	0.080	3.600	213.520	1:245	0.288	0.080	3.600	29+330.000	213.232	6.877	-0.080	-0.550	1:245	212.682						
	213.754	1:245	0.288	0.080	3.600	213.466	1:245	0.288	0.080	3.600	29+340.000	213.178	7.629	-0.080	-0.610	1:245	212.568						
	213.723	1:245	0.288	0.080	3.600	213.435	1:245	0.288	0.080	3.600	29+350.000	213.147	8.469	-0.080	-0.678	1:245	212.469						
	213.715	1:245	0.288	0.080	3.600	213.427	1:245	0.288	0.080	3.600	29+360.000	213.139	9.396	-0.080	-0.752	1:245	212.387						
	213.730	1:245	0.288	0.080	3.600	213.442	1:245	0.288	0.080	3.600	29+370.000	213.154	10.411	-0.080	-0.833	1:245	212.321						
	213.768	1:245	0.288	0.080	3.600	213.480	1:245	0.288	0.080	3.600	29+380.000	213.192	11.512	-0.080	-0.921	1:245	212.271						
	213.782	1:245	0.288	0.080	3.600	213.494	1:245	0.288	0.080	3.600	29+382.781	213.206	11.800	-0.080	-0.944	1:245	212.262						
END FULL SE	213.911	1:245	0.288	0.080	3.600	213.623	1:245	0.288	0.080	3.600	29+400.000	213.335											END FULL SE
CS	213.972	1:245	0.271	0.075	3.600	213.701	1:245	0.271	0.075	3.600	29+409.000	213.430											CS
	213.974	1:245	0.270	0.075	3.600	213.704	1:245	0.270	0.075	3.600	29+409.383	213.434											
	213.979	1:245	0.269	0.075	3.600	213.710	1:245	0.269	0.075	3.600	29+410.000	213.441											
	214.070	1:245	0.250	0.070	3.600	213.820	1:245	0.250	0.070	3.600	29+420.000	213.570											
	214.186	1:245	0.232	0.064	3.600	213.954	1:245	0.232	0.064	3.600	29+430.000	213.722											
	214.323	1:245	0.213	0.059	3.600	214.110	1:245	0.213	0.059	3.600	29+440.000	213.897											
	214.482	1:245	0.194	0.054	3.600	214.288	1:245	0.194	0.054	3.600	29+450.000	214.094											
	214.665	1:245	0.175	0.049	3.600	214.490	1:245	0.175	0.049	3.600	29+460.000	214.315											
	214.870	1:245	0.156	0.043	3.600	214.714	1:245	0.156	0.043	3.600	29+470.000	214.558											
	215.100	1:245	0.138	0.038	3.600	214.962	1:245	0.138	0.038	3.600	29+480.000	214.824											
	215.351	1:245	0.119	0.033	3.600	215.232	1:245	0.119	0.033	3.600	29+490.000	215.113											
	215.624	1:245	0.100	0.028	3.600	215.524	1:245	0.100	0.028	3.600	29+500.000	215.424											
	215.921	1:245	0.081	0.023	3.600	215.840	1:245	0.081	0.023	3.600	29+510.000	215.759											
	216.236	1:245	0.062	0.017	3.600	216.174	1:245	0.062	0.017	3.600	29+520.000	216.112											
REVERSE CROWN	216.320	1:245	0.058	0.016	3.600	216.262	1:245	0.058	0.016	3.600	29+522.600	216.204											REVERSE CROWN
	216.568	1:245	0.043	0.012	3.600	216.525	1:245	0.058	0.016	3.600	29+530.000	216.467											
	216.902	1:245	0.022	0.006	3.600	216.880	1:245	0.058	0.016	3.600	29+540.000	216.822											
	217.237	1:245	0.002	0.001	3.600	217.235	1:245	0.058	0.016	3.600	29+550.000	217.177											
HALF FLAT	217.270	1:245	0.000	0.000	3.600	217.270	1:245	0.058	0.016	3.600	29+551.000	217.212											

SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 29+927.354 R=600.000 m

CURVE 1

CALCULATED
SAW
CHECKED
PRS

Table with columns: REMARKS, OUTSIDE LANE (EDGE ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), INSIDE LANE (HINGE POINT ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), PROFILE GRADE LINE (STATION, ELEVATION, WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, HINGE POINT ELEVATION), INSIDE LANE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, HINGE POINT ELEVATION), OUTSIDE LANE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, EDGE ELEVATION), REMARKS. Rows include: BEGIN SE TRANS, HALF FLAT, REVERSE CROWN, PC/SC, BEGIN FULL SE, END FULL SE, PT/CS, REVERSE CROWN, HALF FLAT, END SE TRANS.

US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

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956

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SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 32+710.040

R=900.000 m

CURVE 3

CALCULATED
SAW
CHECKED
PRS

REMARKS	OUTSIDE LANE					INSIDE LANE					PROFILE GRADE LINE		INSIDE LANE					OUTSIDE LANE					REMARKS
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
END FULL SE	291.057	1:245	-0.220	-0.061	3.600	291.276	1:245	-0.220	-0.061	3.600	33+019.000	291.496	3.600	0.061	0.220	1:245	291.715						END FULL SE
PT/CS	291.074	1:245	-0.218	-0.061	3.600	291.292	1:245	-0.218	-0.061	3.600	33+019.621	291.511	3.600	0.061	0.218	1:245	291.729						PT/CS
	291.084	1:245	-0.218	-0.060	3.600	291.302	1:245	-0.218	-0.060	3.600	33+020.000	291.520	3.600	0.060	0.218	1:245	291.737						
	291.359	1:245	-0.197	-0.055	3.600	291.556	1:245	-0.197	-0.055	3.600	33+030.000	291.754	3.600	0.055	0.197	1:245	291.951						
	291.627	1:245	-0.177	-0.049	3.600	291.805	1:245	-0.177	-0.049	3.600	33+040.000	291.982	3.600	0.049	0.177	1:245	292.159						
	291.890	1:245	-0.157	-0.044	3.600	292.047	1:245	-0.157	-0.044	3.600	33+050.000	292.204	3.600	0.044	0.157	1:245	292.361						
	292.146	1:245	-0.137	-0.038	3.600	292.283	1:245	-0.137	-0.038	3.600	33+060.000	292.420	3.600	0.038	0.137	1:245	292.557						
	292.395	1:245	-0.117	-0.032	3.600	292.512	1:245	-0.117	-0.032	3.600	33+070.000	292.629	3.600	0.032	0.117	1:245	292.746						
	292.639	1:245	-0.097	-0.027	3.600	292.736	1:245	-0.097	-0.027	3.600	33+080.000	292.832	3.600	0.027	0.097	1:245	292.929						
	292.876	1:245	-0.077	-0.021	3.600	292.953	1:245	-0.077	-0.021	3.600	33+090.000	293.029	3.600	0.021	0.077	1:245	293.106						
REVERSE CROWN	293.094	1:245	-0.058	-0.016	3.600	293.151	1:245	-0.058	-0.016	3.600	33+099.410	293.209	3.600	0.016	0.058	1:245	293.267						REVERSE CROWN
	293.106		-0.058	-0.016	3.600	293.164	1:490	-0.056	-0.016	3.600	33+100.000	293.220	3.600	0.016	0.056	1:490	293.276						
	293.311		-0.058	-0.016	3.600	293.368	1:490	-0.036	-0.010	3.600	33+110.000	293.405	3.600	0.010	0.036	1:490	293.441						
	293.509		-0.058	-0.016	3.600	293.567	1:490	-0.016	-0.004	3.600	33+120.000	293.583	3.600	0.004	0.016	1:490	293.599						
HALF FLAT	293.663		-0.058	-0.016	3.600	293.721	1:490	0.000	0.000	3.600	33+128.000	293.721	3.600	0.000	0.000	1:490	293.721						HALF FLAT
	293.701		-0.058	-0.016	3.600	293.759	1:490	0.004	0.001	3.600	33+130.000	293.755	3.600	-0.001	-0.004	1:490	293.751						
	293.887		-0.058	-0.016	3.600	293.945	1:490	0.024	0.007	3.600	33+140.000	293.921	3.600	-0.007	-0.024	1:490	293.896						
	294.067		-0.058	-0.016	3.600	294.124	1:490	0.044	0.012	3.600	33+150.000	294.080	3.600	-0.012	-0.044	1:490	294.036						
END SE TRANS	294.182		-0.058	-0.016	3.600	294.239	1:490	0.058	0.016	3.600	33+156.590	294.182	3.600	-0.016	-0.058	1:490	294.124						END SE TRANS
	294.233		-0.058	-0.016	3.600	294.291		0.058	0.016	3.600	33+160.000	294.233	3.600	0.016	0.058		294.291						

US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

674A
956

SUPERELEVATION TABLE FOR 4-LANE ROADWAY

CURVE 4

PI STA 33+902.107

R=900.000 m

CALCULATED
SAW
CHECKED
PRS

Table with 25 columns: REMARKS, EDGE ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH, HINGE POINT ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH, PROFILE GRADE LINE STATION, ELEVATION, INSIDE LANE WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, HINGE POINT ELEVATION, OUTSIDE LANE WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, EDGE ELEVATION, REMARKS. Includes data for BEGIN SE TRANS, HALF FLAT, REVERSE CROWN, PC/SC, and BEGIN FULL SE.

US 33 MAINLINE SUPERELEVATION TABLE

ATH - 33-30.981

675
956

SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 33+902.107

R=900.000 m

CURVE 4

CALCULATED
SAW
CHECKED
PRS

REMARKS	OUTSIDE LANE					INSIDE LANE					PROFILE GRADE LINE		INSIDE LANE					OUTSIDE LANE					REMARKS
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
	284.345	1:245	0.220	0.061	3.600	284.126	1:245	0.220	0.061	3.600	34+200.000	283.906											
	283.972	1:245	0.220	0.061	3.600	283.752	1:245	0.220	0.061	3.600	34+220.000	283.533											
END FULL SE	283.766	1:245	0.220	0.061	3.600	283.547	1:245	0.220	0.061	3.600	34+231.000	283.327											END FULL SE
PT/CS	283.759	1:245	0.220	0.061	3.600	283.539	1:245	0.220	0.061	3.600	34+231.412	283.319											PT/CS
	283.598	1:245	0.219	0.061	3.600	283.379	1:245	0.219	0.061	3.600	34+240.000	283.160											
	283.383	1:245	0.201	0.056	3.600	283.182	1:245	0.201	0.056	3.600	34+250.000	282.980											
	283.171	1:245	0.181	0.050	3.600	282.989	1:245	0.181	0.050	3.600	34+260.000	282.808											
	282.965	1:245	0.161	0.045	3.600	282.804	1:245	0.161	0.045	3.600	34+270.000	282.643											
	282.767	1:245	0.141	0.039	3.600	282.626	1:245	0.141	0.039	3.600	34+280.000	282.485											
	282.575	1:245	0.121	0.034	3.600	282.455	1:245	0.121	0.034	3.600	34+290.000	282.334											
	282.391	1:245	0.101	0.028	3.600	282.291	1:245	0.101	0.028	3.600	34+300.000	282.190											
	282.214	1:245	0.081	0.022	3.600	282.134	1:245	0.081	0.022	3.600	34+310.000	282.053											
REVERSE CROWN	282.150	1:245	0.058	0.016	3.600	282.092	1:245	0.058	0.016	3.600	34+311.410	282.035											REVERSE CROWN
	282.022	1:490	0.040	0.011	3.600	281.981		0.058	0.016	3.600	34+320.000	281.924											
	281.879	1:490	0.020	0.006	3.600	281.859		0.058	0.016	3.600	34+330.000	281.802											
HALF FLAT	281.744	1:490	0.000	0.000	3.600	281.744		0.058	0.016	3.600	34+340.000	281.687											HALF FLAT
	281.616	1:490	-0.020	-0.006	3.600	281.636		0.058	0.016	3.600	34+350.000	281.579											
	281.495	1:490	-0.040	-0.011	3.600	281.536		0.058	0.016	3.600	34+360.000	281.478											
END SE TRANS	281.397	1:490	-0.058	-0.016	3.600	281.455		0.058	0.016	3.600	34+368.590	281.397											END SE TRANS
	281.384		-0.058	-0.016	3.600	281.442		0.058	0.016	3.600	34+370.000	281.384											
CURVE 5 NOT USED																							

US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

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SUPERELEVATION TABLE FOR 4-LANE ROADWAY

CURVE 6

PI STA 35+565.166

R=3500.000 m

CALCULATED
SAW
CHECKED
PRS

Table with columns: REMARKS, OUTSIDE LANE (EDGE ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), INSIDE LANE (HINGE POINT ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), PROFILE GRADE LINE (STATION, ELEVATION), INSIDE LANE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, HINGE POINT ELEVATION), OUTSIDE LANE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, EDGE ELEVATION), REMARKS. Includes rows like BEGIN SE TRANS, HALF FLAT, REVERSE CROWN, PC/SC, BEGIN FULL SE, etc.

US 33 MAINLINE SUPERELEVATION TABLE

ATH -33-30.981

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SUPERELEVATION TABLE FOR 4-LANE ROADWAY

PI STA 38+669.900

R=1750.000 m

CURVE 8

CALCULATED
SAW
CHECKED
PRS

REMARKS	OUTSIDE LANE					INSIDE LANE					PROFILE GRADE LINE		INSIDE LANE					OUTSIDE LANE					REMARKS	
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	HINGE POINT ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	HINGE POINT ELEVATION	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION		
END FULL SE	261.709	1:245	0.126	0.035	3.600	261.583	1:245	0.126	0.035	3.600	39+031.000	261.457												END FULL SE
	261.582	1:245	0.108	0.030	3.600	261.475	1:245	0.108	0.030	3.600	39+040.000	261.367												
PT/CS	261.504	1:245	0.096	0.027	3.600	261.407	1:245	0.096	0.027	3.600	39+045.603	261.311												PT/CS
	261.442	1:245	0.087	0.024	3.600	261.354	1:245	0.087	0.024	3.600	39+050.000	261.267												
	261.301	1:245	0.067	0.019	3.600	261.234	1:245	0.067	0.019	3.600	39+060.000	261.167												
REVERSE CROWN	261.236	1:245	0.058	0.016	3.600	261.178	1:245	0.058	0.016	3.600	39+064.657	261.120												REVERSE CROWN
	261.171	1:490	0.047	0.013	3.600	261.125		0.058	0.016	3.600	39+070.000	261.067												
	261.051	1:490	0.026	0.007	3.600	261.025		0.058	0.016	3.600	39+080.000	260.967												
	260.931	1:490	0.006	0.002	3.600	260.925		0.058	0.016	3.600	39+090.000	260.867												
HALF FLAT	260.895	1:490	0.000	0.000	3.600	260.895		0.058	0.016	3.600	39+093.000	260.837												HALF FLAT
	260.810	1:490	-0.014	-0.004	3.600	260.825		0.058	0.016	3.600	39+100.000	260.767												
	260.690	1:490	-0.035	-0.010	3.600	260.725		0.058	0.016	3.600	39+110.000	260.667												
	260.570	1:490	-0.055	-0.015	3.600	260.625		0.058	0.016	3.600	39+120.000	260.567												
END SE TRANS	260.554	1:490	-0.058	-0.016	3.600	260.611		0.058	0.016	3.600	39+121.343	260.554												END SE TRANS
	260.467		-0.058	-0.016	3.600	260.525		0.058	0.016	3.600	39+130.000	260.467												

US 33 MAINLINE SUPERELEVATION TABLE

ATH-33-30.981

23 JAN 2001 16:06:35
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SUPERELEVATION TABLE

PI STA 1+367.328

R=350 m

CURVE 1A

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
212.646	1:213	0.384	0.080	4.800	1+382.781	212.262						
212.622	1:213	0.384	0.080	4.800	1+388.000	212.238						FSE
212.603	1:213	0.375	0.078	4.800	1+390.000	212.228						
212.495	1:213	0.328	0.068	4.800	1+400.000	212.167						
212.372	1:213	0.282	0.059	4.800	1+410.000	212.091						
212.369	1:213	0.281	0.058	4.800	1+410.236	212.089						PTC/PT
212.233	1:213	0.235	0.049	4.800	1+420.000	211.998						
212.078	1:213	0.189	0.039	4.800	1+430.000	211.890						
211.907	1:213	0.142	0.030	4.800	1+440.000	211.765						
211.721	1:213	0.095	0.020	4.800	1+450.000	211.625						
211.642	1:213	0.077	0.016	4.800	1+454.000	211.565						END SE
211.546	1:213	0.077	0.016	4.800	1+460.000	211.469						

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	

RAMP A SUPERELEVATION TABLE

ATH-33-30.981

24 JAN 2001 08:08:37
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CALCULATED
SAW
CHECKED
PRS

SUPERELEVATION TABLE

CURVE 1SC

PI STA 2+621.594

R=50 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
					STA 2+555.639 @ SLIP RAMP C = STA 0+174.208 @ ALBANY ROAD, 7.2m RT							
213.785	1:141	0.093	0.027	3.600	2+555.639	213.688						PC
213.572	1:141	0.122	0.034	3.600	2+560.000	213.450						FSE
213.020	1:141	0.122	0.034	3.600	2+570.000	212.898						
212.603	1:141	0.122	0.034	3.600	2+580.000	212.481						
212.337	1:141	0.122	0.034	3.600	2+590.000	212.215						
212.221	1:141	0.122	0.034	3.600	2+600.000	212.099						
212.256	1:141	0.122	0.034	3.600	2+610.000	212.133						
212.441	1:141	0.122	0.034	3.600	2+620.000	212.319						
212.777	1:141	0.122	0.034	3.600	2+630.000	212.655						
213.263	1:141	0.122	0.034	3.600	2+640.000	213.141						
213.656	1:141	0.122	0.034	3.600	2+647.847	213.533						PT/FSE

SUPERELEVATION TABLE

CURVE 2SC

PI STA 2+657.400

R=1350 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
213.656	1:141	0.122	0.034	3.600	2+647.847	213.533						PT/FSE
213.743	1:141	0.112	0.031	3.600	2+649.800	213.631						PC
213.753	1:141	0.112	0.031	3.600	2+650.000	213.641						SE TRANS
214.237		0.112	0.031	3.600	2+660.000	214.126						
214.480		0.112	0.031	3.600	2+665.000	214.368						
SLIP RAMP "C" STA 2+665.000 = RAMP "C" STA 3+665.000												

CALCULATED
SAW
CHECKED
PKS

SLIP RAMP C SUPERELEVATION TABLE

ATH-33-30.981

685
956

SUPERELEVATION TABLE

CURVE 1D

PI STA 4+918.463

R=600 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
					4+670.000	214.655	4.800	0.016	0.077		214.732	
					4+680.000	215.155	4.800	0.016	0.077	1:213	215.232	BEGIN SE
					4+690.000	215.655	4.800	0.006	0.030	1:213	215.685	
					4+700.000	216.155	4.800	-0.003	-0.017	1:213	216.139	
					4+710.000	216.655	4.800	-0.013	-0.064	1:213	216.592	
					4+720.000	217.155	4.800	-0.023	-0.110	1:213	217.045	
					4+730.000	217.655	4.800	-0.033	-0.157	1:213	217.498	
					4+737.437	218.027	4.800	-0.040	-0.192	1:213	217.835	PC
					4+740.000	218.155	4.800	-0.042	-0.288	1:213	217.867	
					4+750.000	218.655	4.800	-0.052	-0.251	1:213	218.405	
					4+758.000	219.055	4.800	-0.060	-0.288	1:213	218.767	
					4+760.000	219.155	4.800	-0.060	-0.288	1:213	218.867	
					4+770.000	219.655	4.800	-0.060	-0.288	1:213	219.367	
					4+780.000	220.155	4.800	-0.060	-0.288	1:213	219.867	
					4+800.000	221.155	4.800	-0.060	-0.288	1:213	220.867	
					4+820.000	222.155	4.800	-0.060	-0.288	1:213	221.867	
					4+840.000	223.155	4.800	-0.060	-0.288	1:213	222.867	
					4+860.000	224.155	4.800	-0.060	-0.288	1:213	223.867	
					4+880.000	225.155	4.800	-0.060	-0.288	1:213	224.867	
					4+900.000	226.155	4.800	-0.060	-0.288	1:213	225.867	
					4+920.000	227.155	4.800	-0.060	-0.288	1:213	226.867	
					4+940.000	228.155	4.800	-0.060	-0.288	1:213	227.867	
					4+960.000	229.155	4.800	-0.060	-0.288	1:213	228.867	
					4+980.000	230.155	4.800	-0.060	-0.288	1:213	229.867	
					5+000.000	231.155	4.800	-0.060	-0.288	1:213	230.867	
					5+020.000	232.155	4.800	-0.060	-0.288	1:213	231.867	
					5+040.000	233.155	4.800	-0.060	-0.288	1:213	232.867	
					5+060.000	234.155	4.800	-0.060	-0.288	1:213	233.867	
					5+068.000	234.555	4.800	-0.060	-0.288	1:213	234.267	
					5+060.000	234.155	4.800	-0.060	-0.288	1:213	233.867	
					5+068.000	234.555	4.800	-0.060	-0.288	1:213	234.267	FSE
					5+070.000	234.655	4.800	-0.058	-0.279	1:213	234.377	
					5+080.000	235.148	4.800	-0.048	-0.232	1:213	234.916	PC/PT
					5+089.067	235.583	4.800	-0.039	-0.185	1:213	235.398	
					5+090.000	235.627	4.800	-0.039	-0.189	1:213	235.437	
					5+100.000	236.092	4.800	-0.029	-0.138	1:213	235.954	
					5+110.000	236.545	4.800	-0.019	-0.091	1:213	236.453	
					5+120.000	236.984	4.800	-0.009	-0.044	1:213	236.939	
					5+129.500	237.389	4.800	0.000	0.000	1:213	237.389	FLAT

SUPERELEVATION TABLE

CURVE 2D

PI STA 3+657.379

R=1350 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
					5+129.500	237.389	4.800	0.000	0.000	1:213	237.389	FLAT
					5+130.000	237.410	4.800	0.000	0.002	1:213	237.412	
					5+139.818	237.815	4.800	0.010	0.048	1:213	237.863	PC/PT
					5+140.000	237.822	4.800	0.010	0.049	1:213	237.871	
					5+150.000	238.221	4.800	0.020	0.096	1:213	238.317	FSE
					5+160.000	238.607	4.800	0.020	0.096	1:213	238.703	
					5+180.000	239.347	4.800	0.020	0.096	1:213	239.443	
					5+200.000	240.082	4.800	0.020	0.096	1:213	240.178	
					5+220.000	240.814	4.800	0.020	0.096	1:213	240.910	
					5+240.000	241.543	4.800	0.020	0.096	1:213	241.639	
					5+260.000	242.270	4.800	0.020	0.096	1:213	242.366	
					5+280.000	242.994	4.800	0.020	0.096	1:213	243.090	
					5+300.000	243.716	4.397	0.020	0.088	1:213	243.804	
					5+320.000	244.437	3.949	0.020	0.079	1:213	244.516	
					5+340.000	245.153	3.683	0.020	0.074	1:213	245.227	
					5+350.000	245.483	3.619	0.020	0.072	1:213	245.555	
					5+358.000	245.746	3.600	0.020	0.072	1:213	245.818	FSE
					5+359.147	245.787	3.600	0.019	0.069	1:213	245.856	PC/PT
					5+360.000	245.818	3.600	0.018	0.066	1:213	245.884	
					5+363.000	245.919	3.600	0.016	0.058	1:213	245.976	END SE
					5+370.000	246.154	3.600	0.016	0.058	1:213	246.212	

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RAMP D SUPERELEVATION TABLE

ATH-33-30.981

686
956

SUPERELEVATION TABLE

PI STA 48+085.073

R=305 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
284.313	1:213	0.116	0.035	3.300	48+008.000	284.197	3.300	-0.035	-0.116	1:213	284.082	BEG SE
284.342	1:213	0.106	0.032	3.300	48+010.000	284.235	3.300	-0.032	-0.106	1:213	284.129	
284.466	1:213	0.072	0.022	3.300	48+017.226	284.394	3.300	-0.022	-0.072	1:213	284.322	
284.522	1:213	0.059	0.018	3.300	48+020.000	284.463	3.300	-0.018	-0.059	1:213	284.404	
284.762	1:213	0.012	0.004	3.300	48+030.000	284.749	3.300	-0.004	-0.012	1:213	284.737	
284.834	1:213	0.000	0.000	3.300	48+032.602	284.834	3.300	0.000	0.000	1:213	284.833	H FLAT
285.061	1:213	-0.034	-0.010	3.300	48+040.000	285.095	3.300	0.010	0.034	1:213	285.130	
285.192	1:213	-0.052	-0.016	3.300	48+043.848	285.244	3.300	0.016	0.052	1:213	285.296	REVERSE
285.418	1:213	-0.081	-0.025	3.300	48+050.000	285.499	3.300	0.025	0.081	1:213	285.580	PC/PT
285.499	1:213	-0.092	-0.028	3.300	48+052.185	285.590	3.300	0.028	0.092	1:213	285.682	
285.774	1:213	-0.128	-0.039	3.300	48+060.000	285.902	3.300	0.039	0.128	1:213	286.030	
286.090	1:213	-0.175	-0.053	3.300	48+070.000	286.265	3.300	0.053	0.175	1:213	286.440	FSE
286.367	1:213	-0.222	-0.067	3.300	48+080.000	286.589	3.300	0.067	0.222	1:213	286.811	
286.583	1:213	-0.264	-0.080	3.300	48+089.000	286.847	3.300	0.080	0.264	1:213	287.111	
286.609	1:213	-0.264	-0.080	3.300	48+090.000	286.873	3.300	0.080	0.264	1:213	287.137	
286.832	1:213	-0.264	-0.080	3.300	48+099.000	287.096	3.300	0.080	0.264	1:213	287.360	FSE
286.859	1:213	-0.259	-0.079	3.300	48+100.000	287.118	3.300	0.079	0.259	1:213	287.378	
287.110	1:213	-0.213	-0.065	3.300	48+110.000	287.324	3.300	0.065	0.213	1:213	287.537	PC/PT
287.277	1:213	-0.178	-0.054	3.300	48+117.708	287.455	3.300	0.054	0.178	1:213	287.633	
287.322	1:213	-0.168	-0.051	3.300	48+120.000	287.490	3.300	0.051	0.168	1:213	287.657	
287.494	1:213	-0.122	-0.037	3.300	48+130.000	287.616	3.300	0.037	0.122	1:213	287.738	
287.650	1:213	-0.053	-0.023	3.300	48+140.000	287.703	3.300	0.023	0.053	1:213	287.755	
287.678	1:213	-0.053	-0.016	3.300	48+145.000	287.731	3.300	0.016	0.030	1:213	287.761	REVERSE
287.697	1:213	-0.053	-0.016	3.300	48+150.000	287.750	3.300	0.009	0.030	1:213	287.780	
287.707	1:213	-0.053	-0.016	3.300	48+156.500	287.759	3.300	0.000	0.000	1:213	287.759	H FLAT
287.705	1:213	-0.053	-0.016	3.300	48+160.000	287.758	3.300	-0.005	-0.016	1:213	287.742	
287.683	1:213	-0.053	-0.016	3.300	48+168.000	287.735	3.300	-0.016	-0.053	1:213	287.683	BEG SE
287.673	1:213	-0.053	-0.016	3.300	48+170.000	287.726	3.300	-0.016	-0.053	1:213	287.673	

SUPERELEVATION TABLE

PI STA 48+320.097

R=180 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
285.997	1:180	-0.053	-0.016	3.300	48+250.000	286.050	3.300	-0.016	-0.053	1:180	285.997	
285.808	1:180	-0.053	-0.016	3.300	48+255.000	285.861	3.300	-0.016	-0.053	1:180	285.808	BEG SE
285.637	1:180	-0.025	-0.008	3.300	48+260.000	285.662	3.300	-0.016	-0.053	1:180	285.609	
285.472	1:180	0.000	0.000	3.300	48+264.667	285.472	3.300	-0.016	-0.053	1:180	285.419	H FLAT
285.284	1:180	0.029	0.009	3.300	48+270.000	285.255	3.300	-0.016	-0.053	1:180	285.202	
285.131	1:180	0.053	0.016	3.300	48+274.334	285.079	3.300	-0.016	-0.053	1:180	285.026	REVERSE
284.932	1:180	0.084	0.025	3.300	48+280.000	284.848	3.300	-0.025	-0.084	1:180	284.764	
284.579	1:180	0.138	0.042	3.300	48+290.000	284.441	3.300	-0.042	-0.138	1:180	284.302	
284.333	1:180	0.177	0.054	3.300	48+296.996	284.156	3.300	-0.054	-0.177	1:180	283.979	PC/PT
284.227	1:180	0.193	0.058	3.300	48+300.000	284.034	3.300	-0.058	-0.193	1:180	283.841	
283.874	1:180	0.248	0.075	3.300	48+310.000	283.627	3.300	-0.075	-0.248	1:180	283.379	
283.768	1:180	0.264	0.080	3.300	48+313.000	283.504	3.300	-0.080	-0.264	1:180	283.240	FSE
283.483	1:180	0.264	0.080	3.300	48+320.000	283.219	3.300	-0.080	-0.264	1:180	282.955	
283.076	1:180	0.264	0.080	3.300	48+330.000	282.812	3.300	-0.080	-0.264	1:180	282.548	FSE
282.851	1:180	0.242	0.073	3.300	48+335.000	282.609	3.300	-0.073	-0.242	1:180	282.367	
282.625	1:180	0.220	0.067	3.300	48+340.000	282.405	3.300	-0.067	-0.220	1:180	282.186	
282.491	1:180	0.207	0.063	3.300	48+342.947	282.285	3.300	-0.063	-0.207	1:180	282.078	PC/PT
282.172	1:180	0.175	0.053	3.300	48+350.000	281.997	3.300	-0.053	-0.175	1:180	281.822	
281.857	1:180	0.135	0.041	3.300	48+359.000	281.722	3.300	-0.041	-0.135	1:180	281.586	END TRANS
281.826	1:180	0.135	0.041	3.300	48+360.000	281.691	3.300	-0.041	-0.135	1:180	281.556	
281.628	1:180	0.135	0.041	3.300	48+370.000	281.493	3.300	-0.041	-0.135	1:180	281.358	
281.497	1:180	0.135	0.041	3.300	48+380.000	281.362	3.300	-0.041	-0.135	1:180	281.227	

CALCULATED
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TR 55 SUPERELEVATION TABLE

ATH-33-30.981

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SUPERELEVATION TABLE

PI STA 50+086.083

R=200 m

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
273.017	1:190	0.178	0.054	3.300	50+116.761	272.839	3.300	-0.054	-0.178	1:190	272.661	PC/PT
272.832	1:190	0.162	0.049	3.300	50+120.000	272.670	3.300	-0.049	-0.162	1:190	272.508	
272.670	1:190	0.111	0.034	3.300	50+130.000	272.560	3.300	-0.034	-0.111	1:190	272.449	
272.509	1:190	0.060	0.018	3.300	50+140.000	272.449	3.300	-0.018	-0.060	1:190	272.390	
272.487	1:190	0.053	0.016	3.300	50+141.334	272.434	3.300	-0.016	-0.053	1:190	272.382	REVERSE
272.347	1:190	0.009	0.003	3.300	50+150.000	272.339	3.300	-0.003	-0.009	1:190	272.330	
272.320	1:190	0.000	0.000	3.300	50+151.667	272.320	3.300	0.000	0.000	1:190	272.320	FLAT

SUPERELEVATION TABLE

PI STA 50+242.513

R=305 m

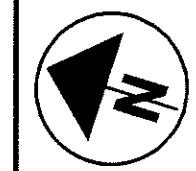
LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
272.320	1:213	0.000	0.000	3.300	50+151.667	272.320	3.300	0.000	0.000	1:213	272.320	FLAT
272.190	1:213	-0.038	-0.012	3.300	50+160.000	272.228	3.300	0.012	0.038	1:213	272.267	
272.141	1:213	-0.053	-0.016	3.300	50+163.167	272.193	3.300	0.016	0.053	1:213	272.246	REVERSE
272.034	1:213	-0.084	-0.026	3.300	50+170.000	272.118	3.300	0.026	0.084	1:213	272.202	
271.885	1:213	-0.130	-0.039	3.300	50+180.000	272.016	3.300	0.039	0.130	1:213	272.146	
271.753	1:213	-0.176	-0.053	3.300	50+190.000	271.929	3.300	0.053	0.176	1:213	272.105	
271.737	1:213	-0.182	-0.055	3.300	50+191.304	271.919	3.300	0.055	0.182	1:213	272.101	PC/PT
271.636	1:213	-0.222	-0.067	3.300	50+200.000	271.858	3.300	0.067	0.222	1:213	272.080	
271.543	1:213	-0.264	-0.080	3.300	50+209.167	271.807	3.300	0.080	0.264	1:213	272.071	FSE
271.500	1:213	-0.264	-0.080	3.300	50+220.000	271.764	3.300	0.080	0.264	1:213	272.028	
271.470	1:213	-0.264	-0.080	3.300	50+240.000	271.734	3.300	0.080	0.264	1:213	271.998	
271.503	1:213	-0.264	-0.080	3.300	50+260.000	271.767	3.300	0.080	0.264	1:213	272.031	
271.563	1:213	-0.264	-0.080	3.300	50+274.000	271.827	3.300	0.080	0.264	1:213	272.091	FSE
271.619	1:213	-0.236	-0.072	3.300	50+280.000	271.856	3.300	0.072	0.236	1:213	272.092	
271.714	1:213	-0.191	-0.058	3.300	50+290.000	271.904	3.300	0.058	0.191	1:213	272.095	
271.740	1:213	-0.178	-0.054	3.300	50+292.775	271.918	3.300	0.054	0.178	1:213	272.095	PC/PT
271.808	1:213	-0.145	-0.044	3.300	50+300.000	271.953	3.300	0.044	0.145	1:213	272.097	
271.902	1:213	-0.099	-0.030	3.300	50+310.000	272.001	3.300	0.030	0.099	1:213	272.100	
271.996	1:213	-0.053	-0.016	3.300	50+320.000	272.049	3.300	0.016	0.053	1:213	272.102	REVERSE
272.045	1:213	-0.053	-0.016	3.300	50+330.000	272.098	3.300	0.002	0.007	1:213	272.104	
272.052	1:213	-0.053	-0.016	3.300	50+331.500	272.105	3.300	0.000	0.000	1:213	272.105	H FLAT
272.093	1:213	-0.053	-0.016	3.300	50+340.000	272.146	3.300	-0.012	-0.039	1:213	272.107	
272.108	1:213	-0.053	-0.016	3.300	50+343.000	272.160	3.300	-0.016	-0.053	1:213	272.108	END SE
272.141	1:213	-0.053	-0.016	3.300	50+350.000	272.194	3.300	-0.016	-0.053	1:213	272.141	

CALCULATED
SAW
CHECKED
PKS

CR 16 SUPERELEVATION TABLE

ATH-33-30.981

04 JAN 2001 15:33:12
D:\MSB\1\Docs\Age\Ocr\F5.dgn

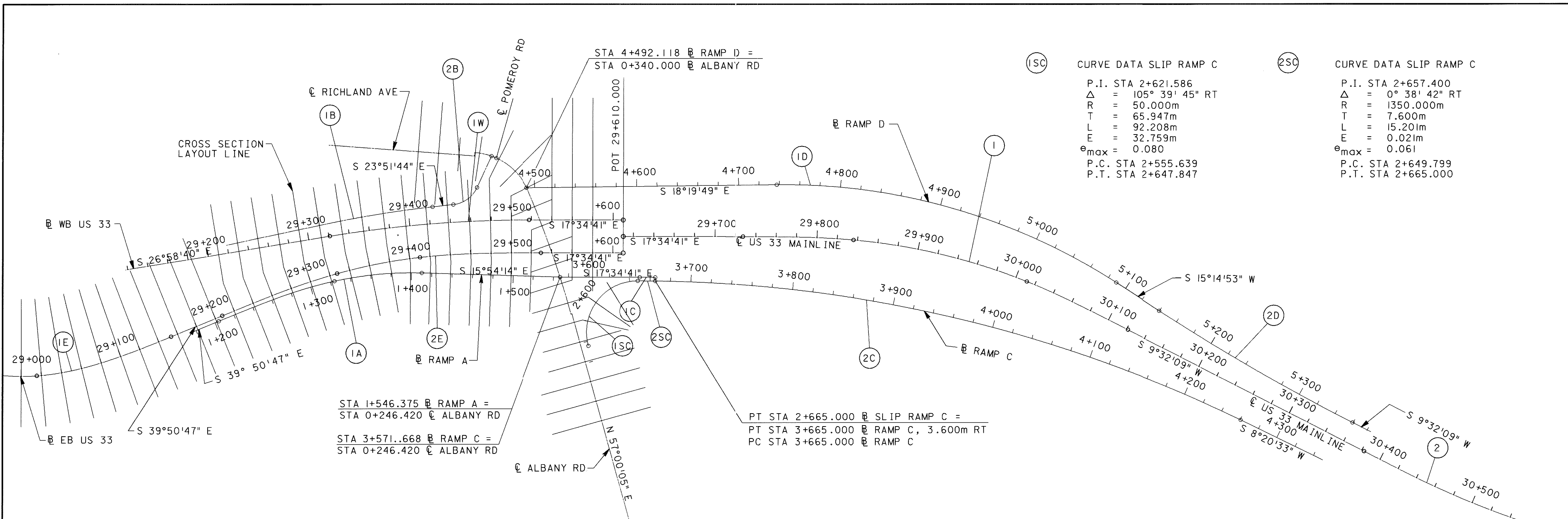


SCALE 1:2,000
HORIZONTAL
SCALE IN METERS

CALCULATED
PRS
CHECKED
AM

**INTERCHANGE GEOMETRICS
US 33 MAINLINE & US 50**

ATH-33-30.981



(ISC) CURVE DATA SLIP RAMP C
 P.I. STA 2+621.586
 $\Delta = 105^\circ 39' 45''$ RT
 R = 50.000m
 T = 65.947m
 L = 92.208m
 E = 32.759m
 $e_{max} = 0.080$
 P.C. STA 2+555.639
 P.T. STA 2+647.847

(2SC) CURVE DATA SLIP RAMP C
 P.I. STA 2+657.400
 $\Delta = 0^\circ 38' 42''$ RT
 R = 1350.000m
 T = 7.600m
 L = 15.201m
 E = 0.021m
 $e_{max} = 0.061$
 P.C. STA 2+649.799
 P.T. STA 2+665.000

NOTE: FOR ALBANY ROAD, RICHLAND AVENUE,
AND POMEROY ROAD GEOMETRY, SEE SHEET 583

(IW) CURVE DATA US 33 MAINLINE WB
 P.I. STA 29+419.534
 $\Delta = 9^\circ 24' 00''$ RT
 R = 1200.000m
 T = 98.657m
 L = 196.870m
 E = 4.049m
 $e_{max} = 0.049$
 P.C. STA 29+320.877
 P.T. STA 29+517.748

(IE) SPIRAL CURVE DATA US 33 MAINLINE EB
 P.I. STA 29+059.297
 R = 212.500m
 Ls = 140.000m
 $Q_s = 18^\circ 52' 26''$
 LT = 93.869m
 ST = 47.154m
 $e_{max} = 0.084$
 C.S. STA 29+013.166
 S.T. STA 29+153.166

(2E) CURVE DATA US 33 MAINLINE EB
 P.I. STA 29+369.824
 $\Delta = 22^\circ 16' 07''$ RT
 R = 520.000m
 Ls = 120.000m
 $Q_s = 6^\circ 36' 40''$
 LT = 80.056m
 ST = 40.051m
 L = 82.102m
 TS = 162.543m
 ES = 11.151m
 $e_{max} = 0.080$
 T.S. STA 29+207.281
 S.C. STA 29+327.281
 C.S. STA 29+409.383
 S.T. STA 29+529.383

(2) CURVE DATA US 33 MAINLINE
 P.I. STA 30+607.252
 $\Delta = 23^\circ 12' 57''$ LT
 R = 900.000m
 Ls = 80.000m
 $Q_s = 2^\circ 32' 47''$
 LT = 53.339m
 ST = 26.672m
 L = 284.102m
 TS = 224.930m
 ES = 11.374m
 $e_{max} = 0.061$
 T.S. STA 30+382.322
 S.C. STA 30+462.322
 C.S. STA 30+746.993
 S.T. STA 30+826.993

(1B) CURVE DATA RAMP B
 P.I. STA 0+862.468
 $\Delta = 5^\circ 46' 08''$
 R = 1062.836m
 T = 53.553m
 L = 107.015m
 E = 1.348m
 $e_{max} = \text{EXISTING}$
 P.C. STA 0+808.916
 P.T. STA 0+915.931

(1D) 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
 $e_{max} = 0.080$
 P.C. STA 4+737.437
 P.T. STA 5+089.067

(1C) CURVE DATA RAMP C
 P.I. STA 3+657.379
 $\Delta = 0^\circ 38' 42''$ RT
 R = 1353.600m
 T = 7.621m
 L = 15.241m
 E = 0.021m
 $e_{max} = 0.031$
 P.C. STA 3+649.758
 P.T. STA 3+665.000

(1) CURVE DATA US 33 MAINLINE
 P.I. STA 29+927.354
 $\Delta = 27^\circ 06' 50''$ RT
 R = 600.000m
 Ls = 110.000m
 $Q_s = 5^\circ 15' 08''$
 LT = 73.366m
 ST = 36.696m
 L = 173.936m
 TS = 139.865m
 ES = 6.358m
 $e_{max} = 0.078$
 T.S. STA 29+727.489
 S.C. STA 29+837.489
 C.S. STA 30+011.425
 S.T. STA 30+121.425

(1A) CURVE DATA RAMP A
 P.I. STA 1+334.276
 $\Delta = 23^\circ 56' 33''$ RT
 R = 350.000m
 Ls = 120.000m
 $Q_s = 9^\circ 49' 20''$
 LT = 80.123m
 ST = 40.112m
 Lc = 86.257m
 T1 = 130.296m
 T2 = 78.431m
 E = 2.674m
 $e_{max} = 0.080$
 T.S. STA 1+203.980
 S.C. STA 1+323.980
 P.T. STA 1+410.236

(2D) 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
 $e_{max} = 0.020$
 P.C. STA 5+139.818
 P.T. STA 5+359.147

(2C) 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
 $e_{max} = 0.031$
 P.C. STA 3+665.000
 P.T. STA 4+260.534

CURVE DATA US33 EB (SCSCS)

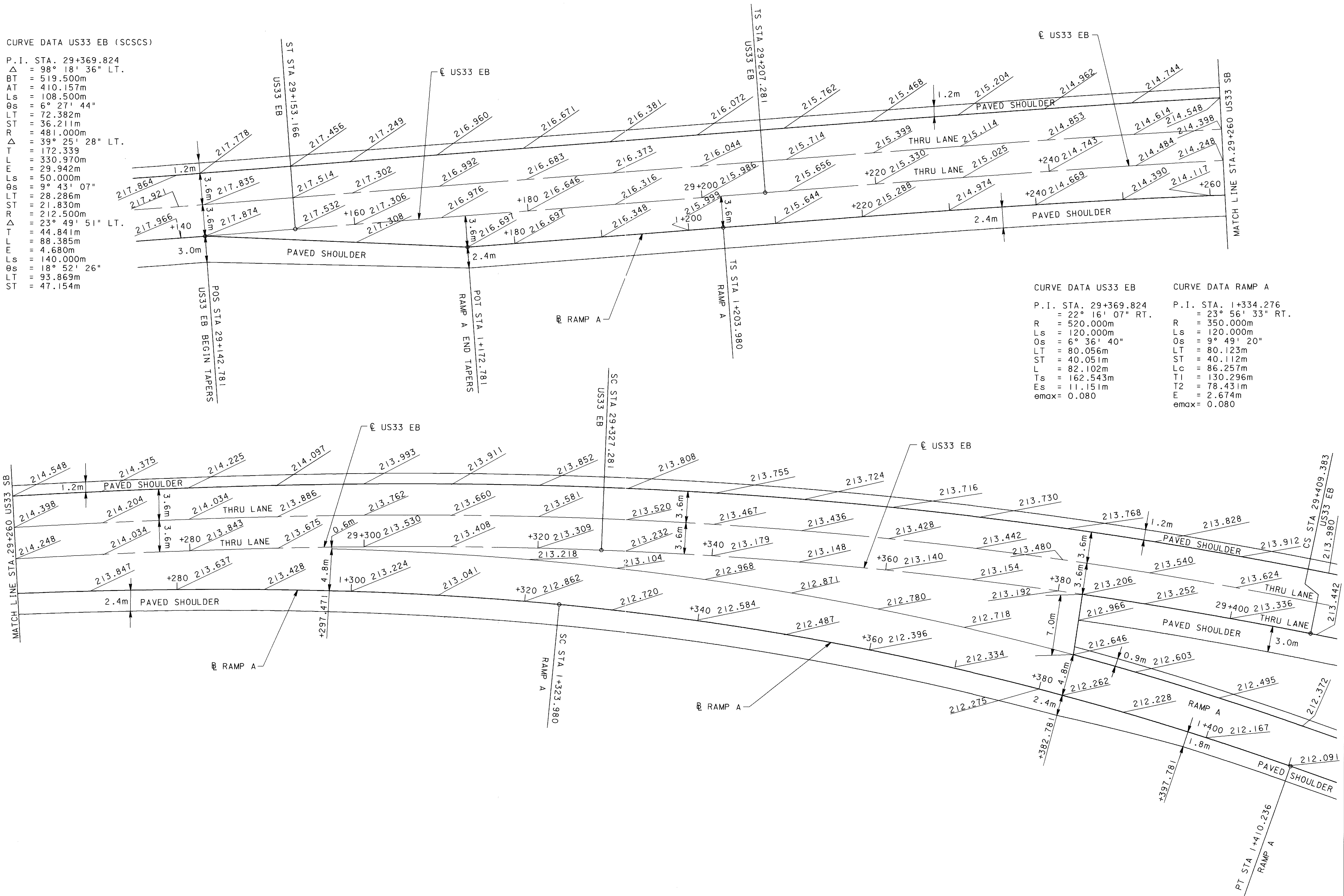
P.I. STA. 29+369.824
 $\Delta = 98^\circ 18' 36''$ LT.
 BT = 519.500m
 AT = 410.157m
 Ls = 108.500m
 $\theta_s = 6^\circ 27' 44''$
 LT = 72.382m
 ST = 36.211m
 R = 481.000m
 $\Delta = 39^\circ 25' 28''$ LT.
 T = 172.339
 L = 330.970m
 Ls = 29.942m
 Ls = 50.000m
 $\theta_s = 9^\circ 43' 07''$
 LT = 28.286m
 ST = 21.830m
 R = 212.500m
 $\Delta = 23^\circ 49' 51''$ LT.
 T = 44.841m
 L = 88.385m
 Ls = 4.680m
 Ls = 140.000m
 $\theta_s = 18^\circ 52' 26''$
 LT = 93.869m
 ST = 47.154m

CURVE DATA US33 EB

P.I. STA. 29+369.824
 $\Delta = 22^\circ 16' 07''$ RT.
 R = 520.000m
 Ls = 120.000m
 $\theta_s = 6^\circ 36' 40''$
 LT = 80.056m
 ST = 40.051m
 L = 82.102m
 Ts = 162.543m
 Es = 11.151m
 emax = 0.080

CURVE DATA RAMP A

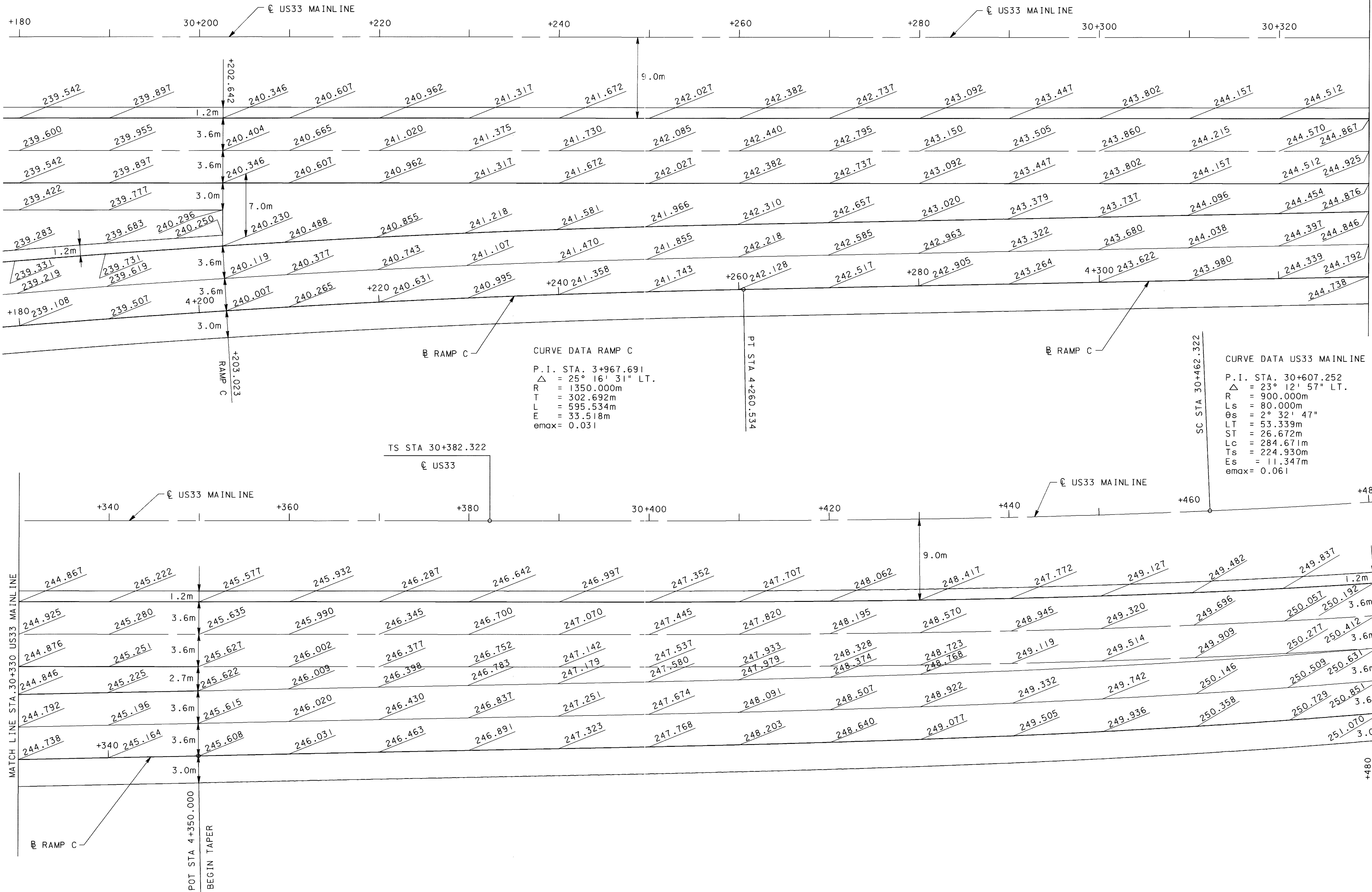
P.I. STA. 1+334.276
 $\Delta = 23^\circ 56' 33''$ RT.
 R = 350.000m
 Ls = 120.000m
 $\theta_s = 9^\circ 49' 20''$
 LT = 80.123m
 ST = 40.112m
 Lc = 86.257m
 T1 = 130.296m
 T2 = 78.431m
 E = 2.674m
 emax = 0.080



CALCULATED
 SAW
 CHECKED
 TAL

RAMP A DETAILS

ATH-33-30.981



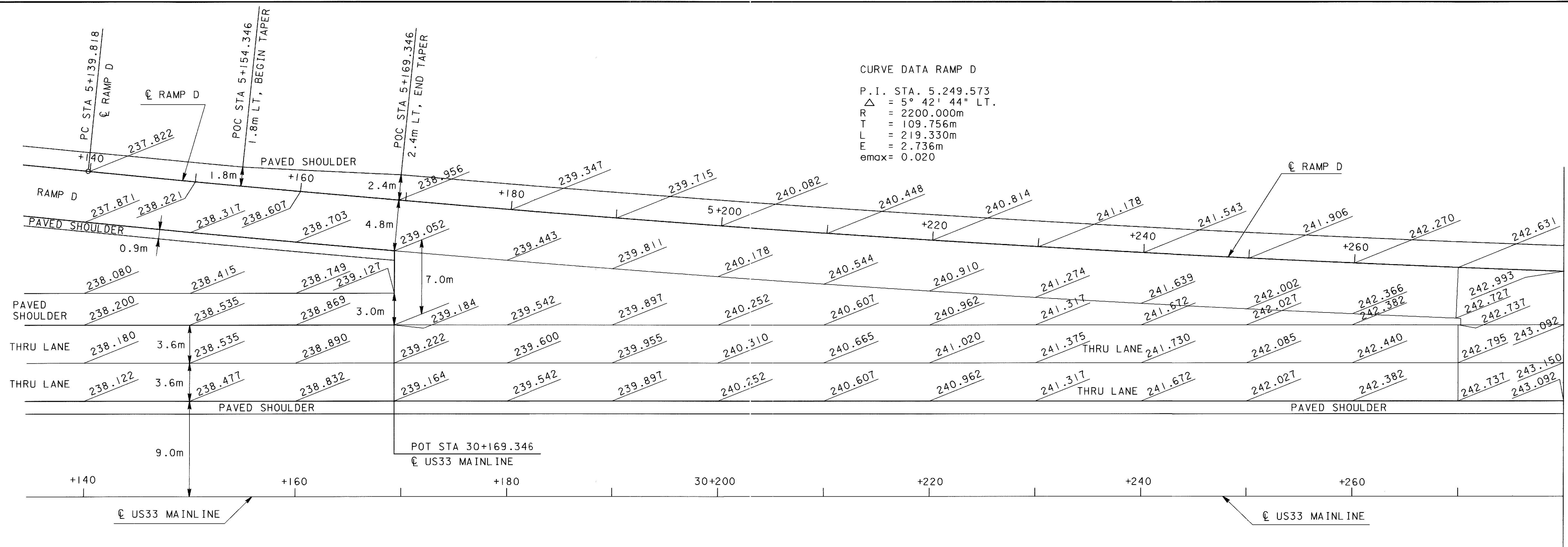
CALCULATED
 SA W
 CHECKED
 TAL

SCALE 1:200
 HORIZONTAL
 SCALE IN METERS

RAMP C DETAILS

ATH-33-30.981

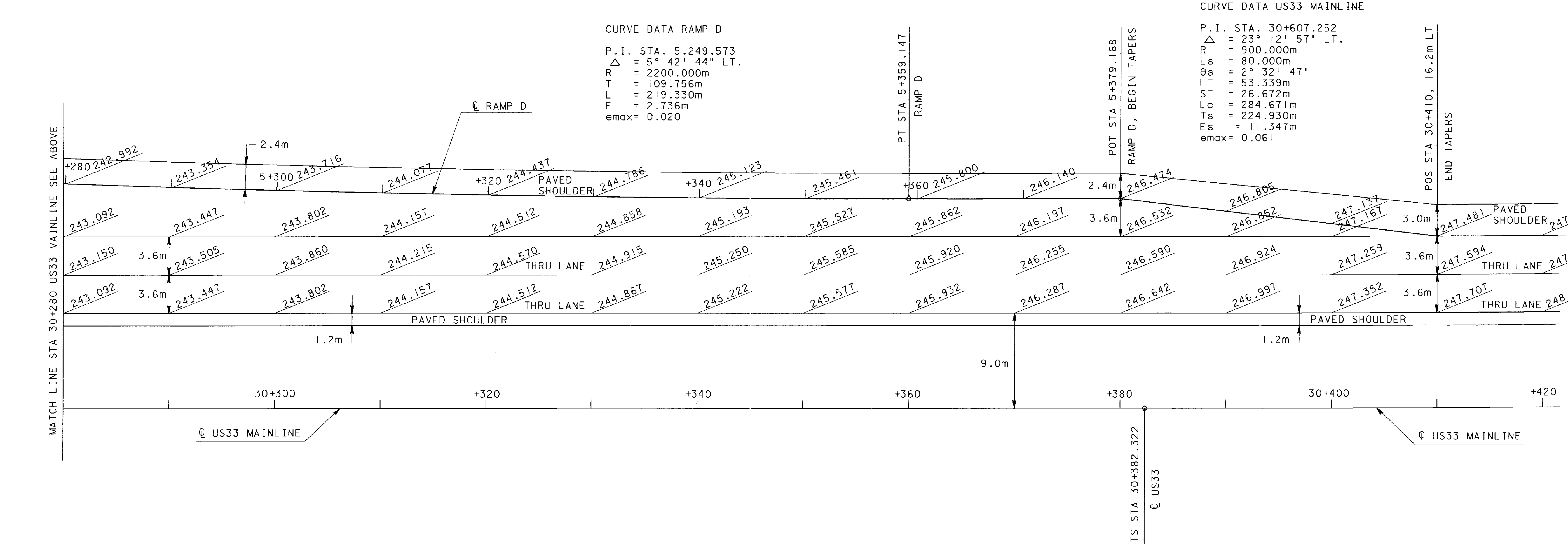
24 JAN 2001 07:45:50
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CURVE DATA RAMP D
 P.I. STA. 5.249.573
 $\Delta = 5^\circ 42' 44''$ LT.
 R = 2200.000m
 T = 109.756m
 L = 219.330m
 E = 2.736m
 emax = 0.020

CALCULATED
 SAW
 CHECKED
 TAL

SCALE 1:200
 HORIZONTAL
 SCALE IN METERS



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
 emax = 0.020

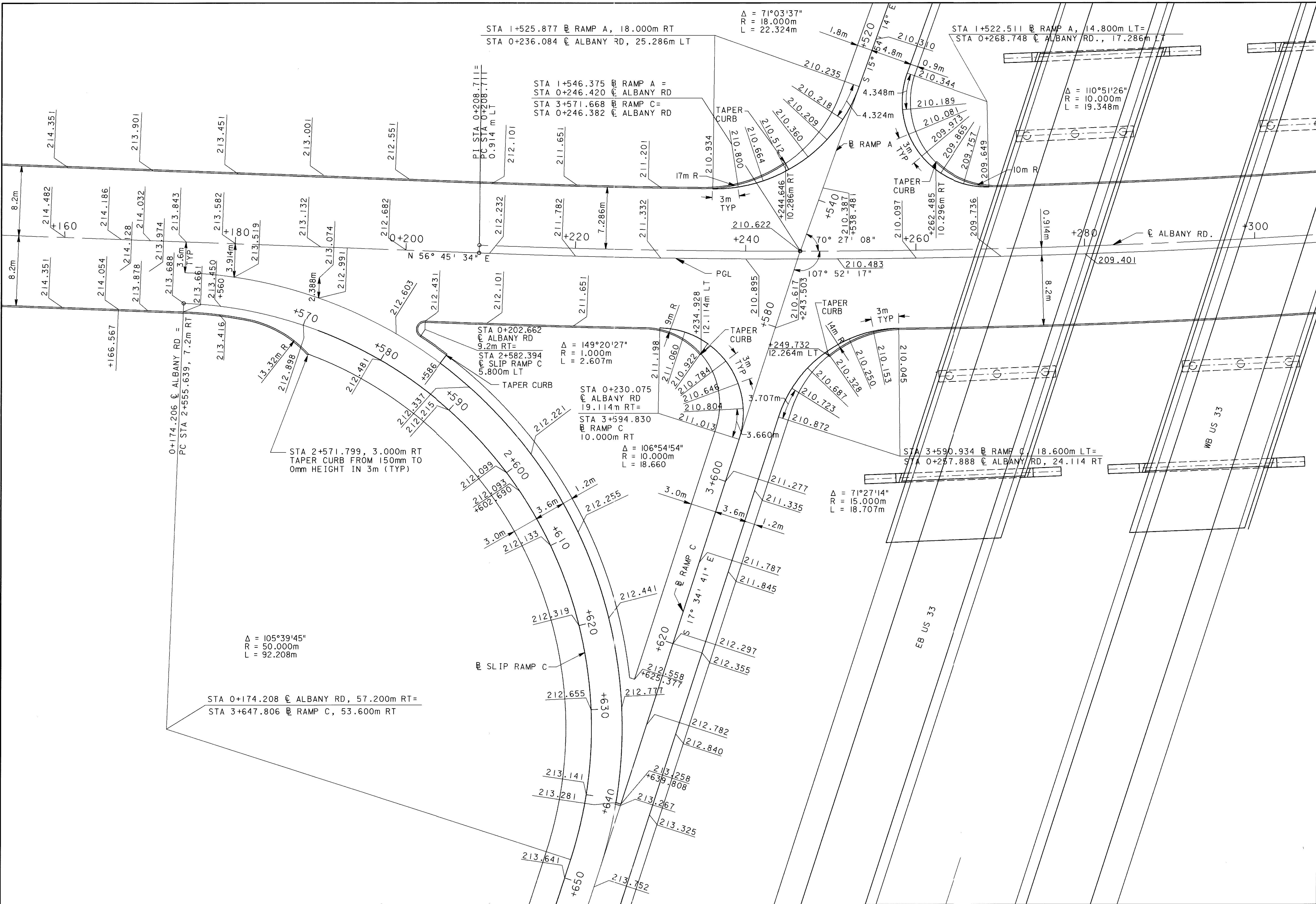
CURVE DATA US33 MAINLINE
 P.I. STA. 30+607.252
 $\Delta = 23^\circ 12' 57''$ LT.
 R = 900.000m
 Ls = 80.000m
 $\theta_s = 2^\circ 32' 47''$
 LT = 53.339m
 ST = 26.672m
 Lc = 284.671m
 Ts = 224.930m
 Es = 11.347m
 emax = 0.061

MATCH LINE STA 30+280 US33 MAINLINE SEE ABOVE

MATCH LINE STA 30+280 US33 MAINLINE SEE BELOW

RAMP D DETAILS

ATH-33-30.981



STA 1+525.877 @ RAMP A, 18.000m RT
STA 0+236.084 @ ALBANY RD, 25.286m LT

Δ = 71°03'37"
R = 18.000m
L = 22.324m

STA 1+522.511 @ RAMP A, 14.800m LT=
STA 0+268.748 @ ALBANY RD., 17.286m LT

STA 1+546.375 @ RAMP A =
STA 0+246.420 @ ALBANY RD
STA 3+571.668 @ RAMP C =
STA 0+246.382 @ ALBANY RD

Δ = 110°51'26"
R = 10.000m
L = 19.348m

STA 0+202.662 @ ALBANY RD
9.2m RT=
STA 2+582.394 @ SLIP RAMP C
5.800m LT

Δ = 149°20'27"
R = 1.000m
L = 2.607m

STA 0+230.075 @ ALBANY RD
19.114m RT=
STA 3+594.830 @ RAMP C
10.000m RT

Δ = 106°54'54"
R = 10.000m
L = 18.660

STA 3+590.934 @ RAMP C, 18.600m LT=
STA 0+257.888 @ ALBANY RD, 24.114 RT

Δ = 71°27'14"
R = 15.000m
L = 18.707m

Δ = 105°39'45"
R = 50.000m
L = 92.208m

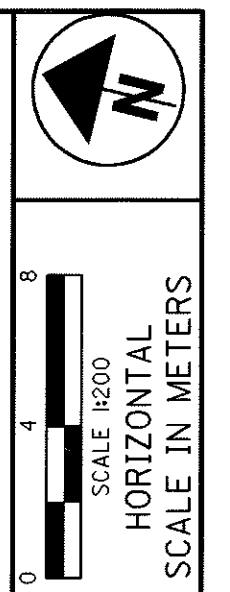
STA 0+174.208 @ ALBANY RD, 57.200m RT=
STA 3+647.806 @ RAMP C, 53.600m RT

CALCULATED
AML
CHECKED
PRS

SCALE 1:500
HORIZONTAL
SCALE IN METERS

INTERSECTION DETAIL
ALBANY RD - RAMP A / RAMP C

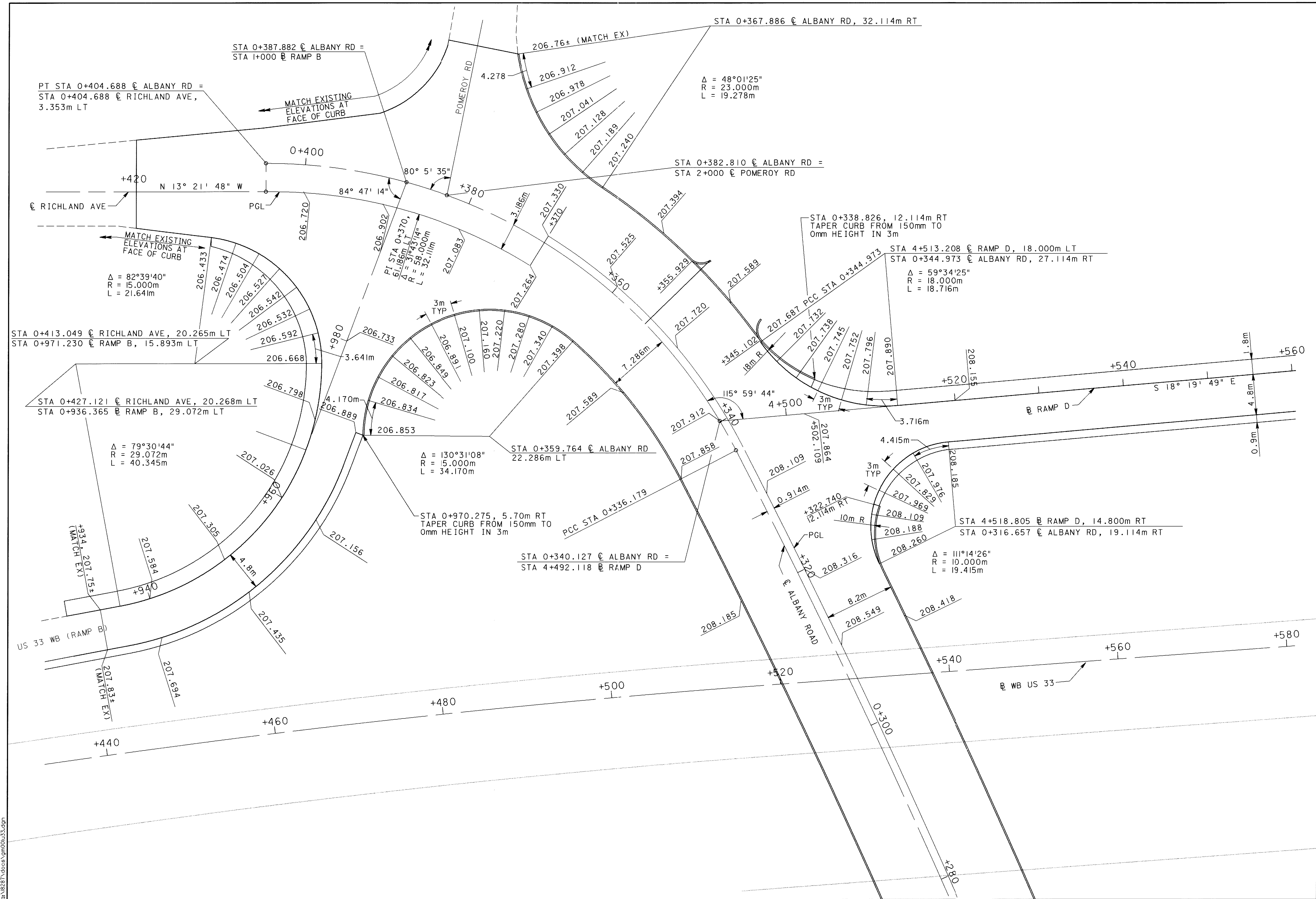
ATH-33-30.981



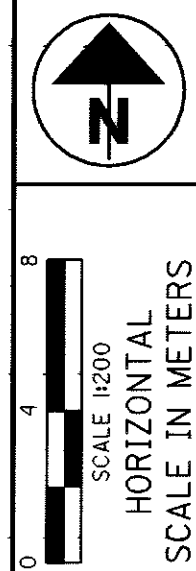
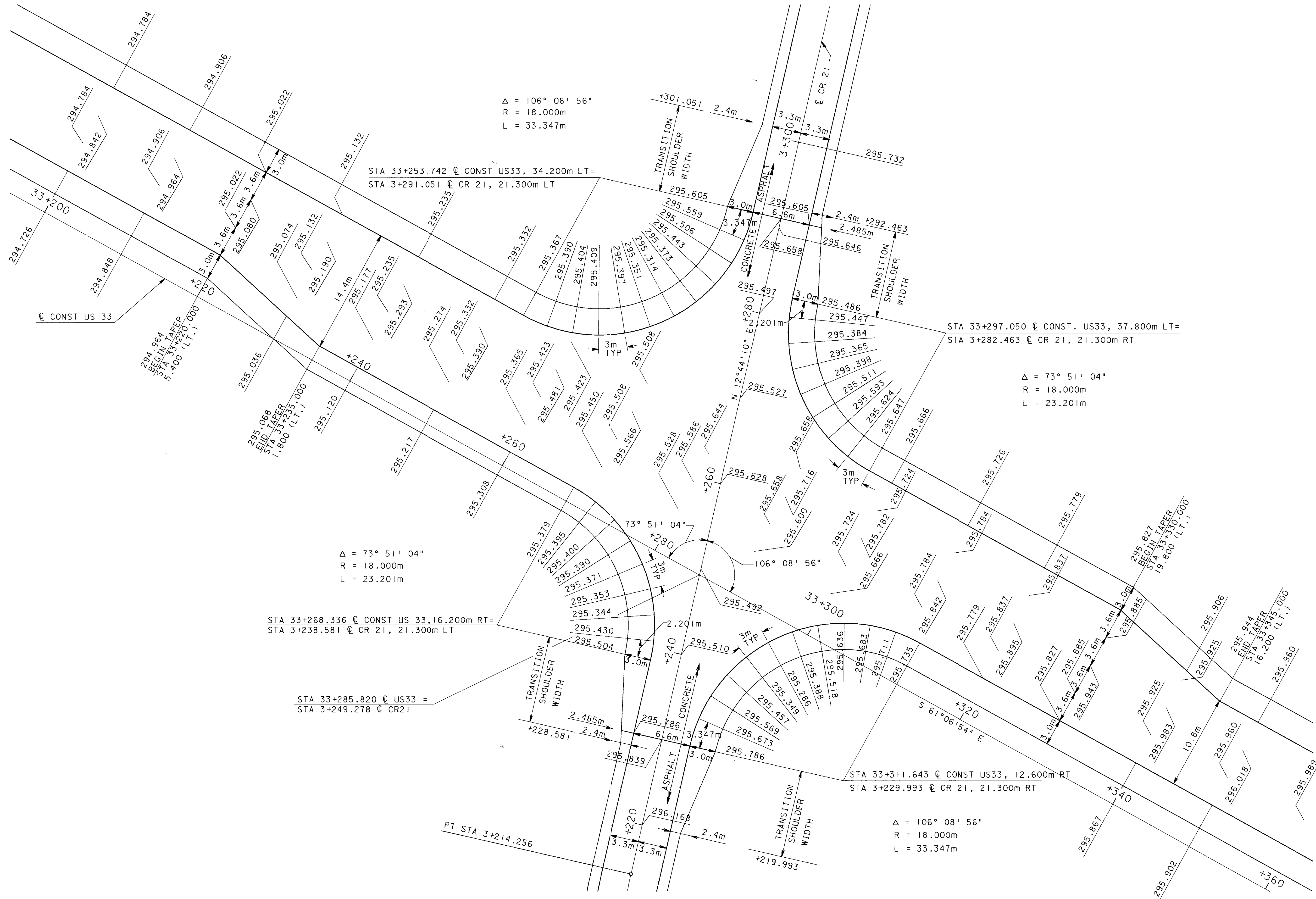
CALCULATED
AML
CHECKED
PRS

**INTERSECTION DETAIL
ALBANY RD - POMEROY RD / RAMP B / RAMP D**

ATH-33-30.981



24 JAN 2001 07:47:52
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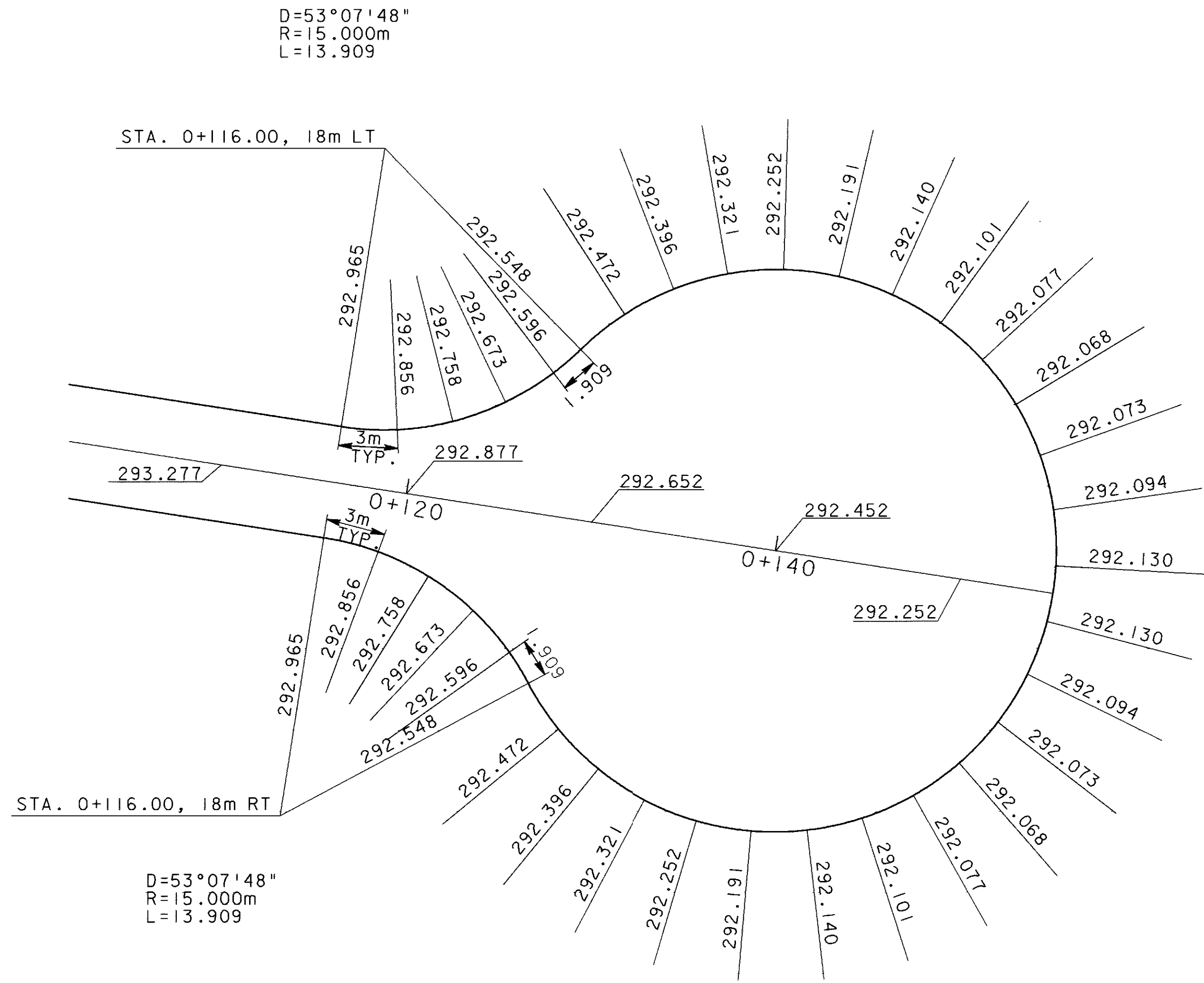
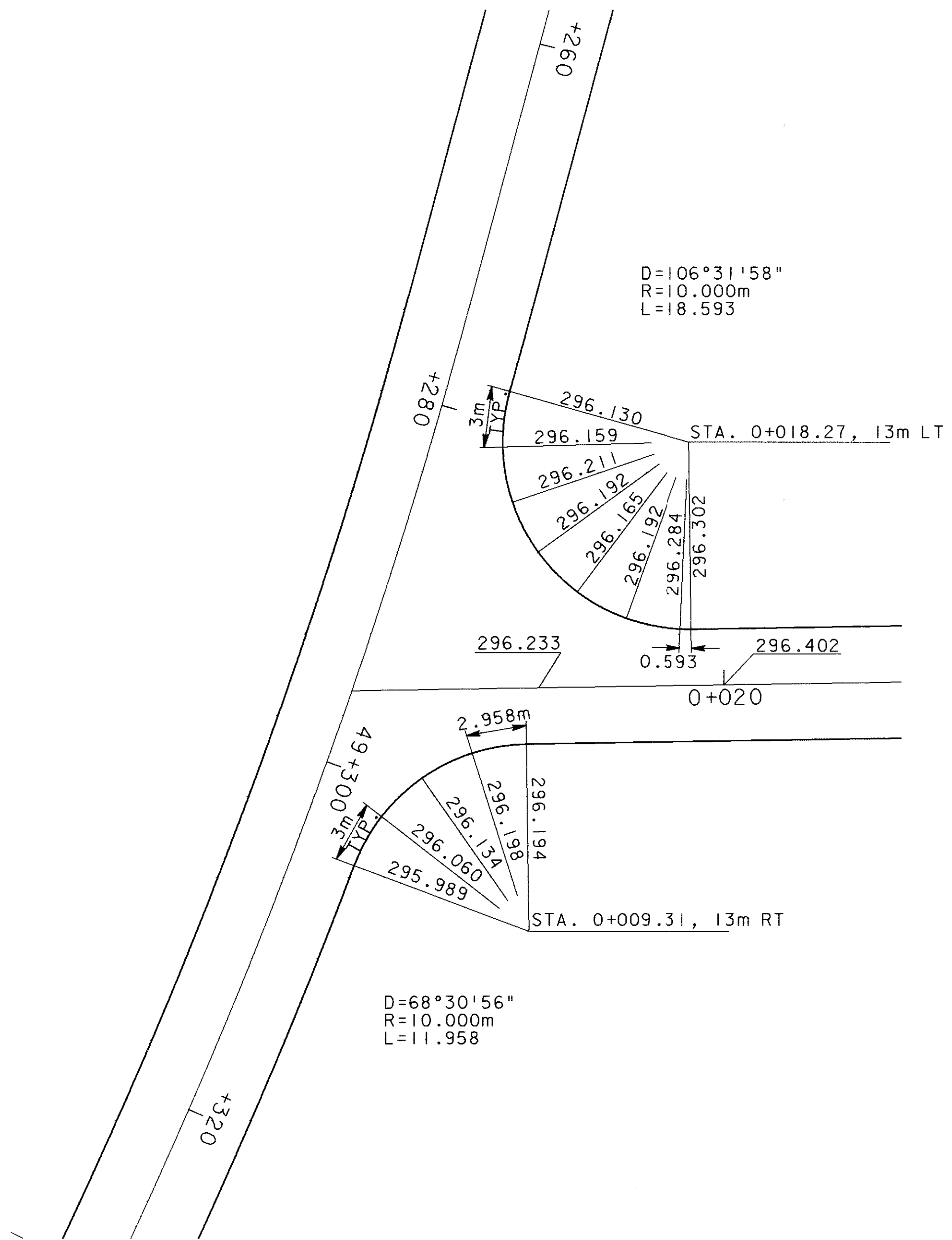


CALCULATED
SAW
CHECKED
TAL

INTERSECTION DETAIL US 33 MAINLINE & CR 21

ATH-33-30.981

698
956



0 4 8
 SCALE 1:200
 HORIZONTAL
 SCALE IN METERS

CALCULATED	AML
CHECKED	TAL

**INTERSECTION DETAIL
 TR 64 & SERVICE ROAD**

ATH-33-30.981