



**CUY-90-14.90**

**PID 77332/85531**

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**APPENDIX LD-07**

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**CCG2 Roadway Engineering Conceptual Plans  
(Basic Configuration)**

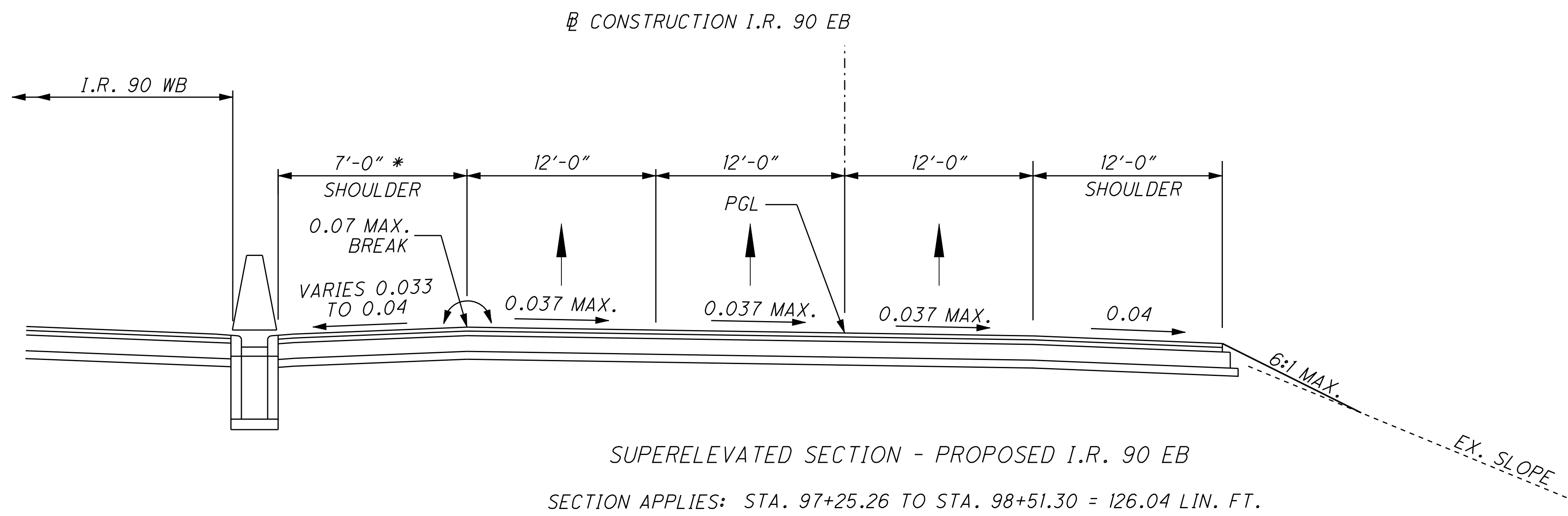
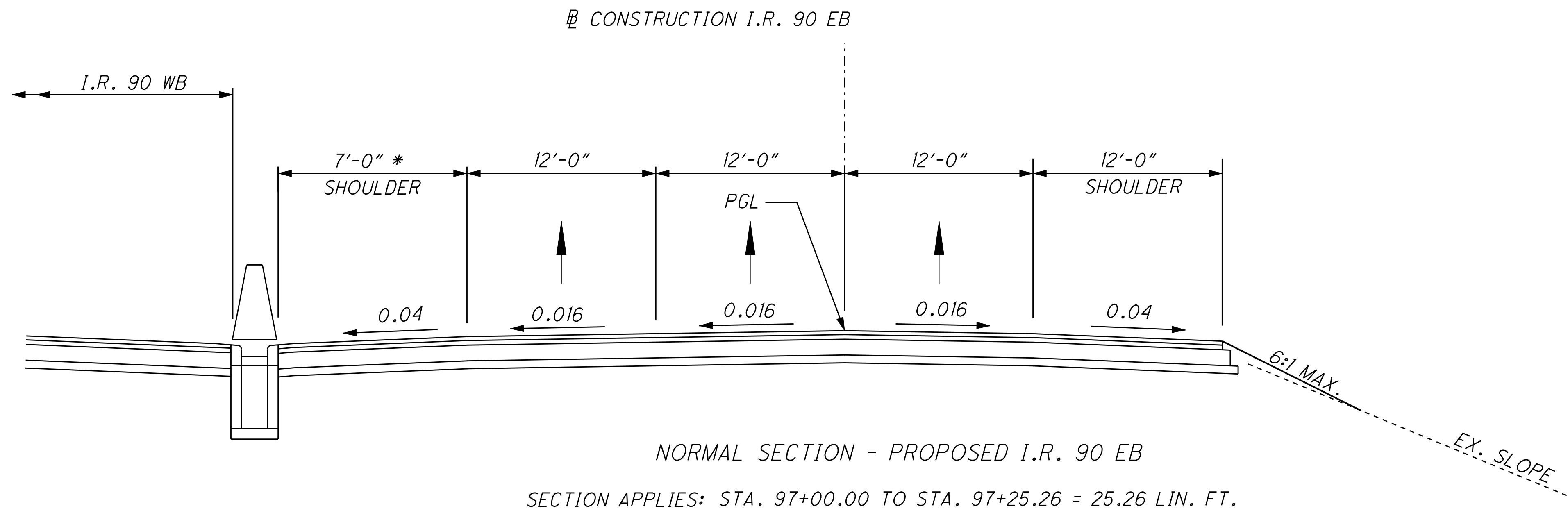
State of Ohio  
Department of Transportation  
Jolene M. Molitoris, Director

**Innerbelt Bridge  
Construction Contract Group 1 (CCG1)**

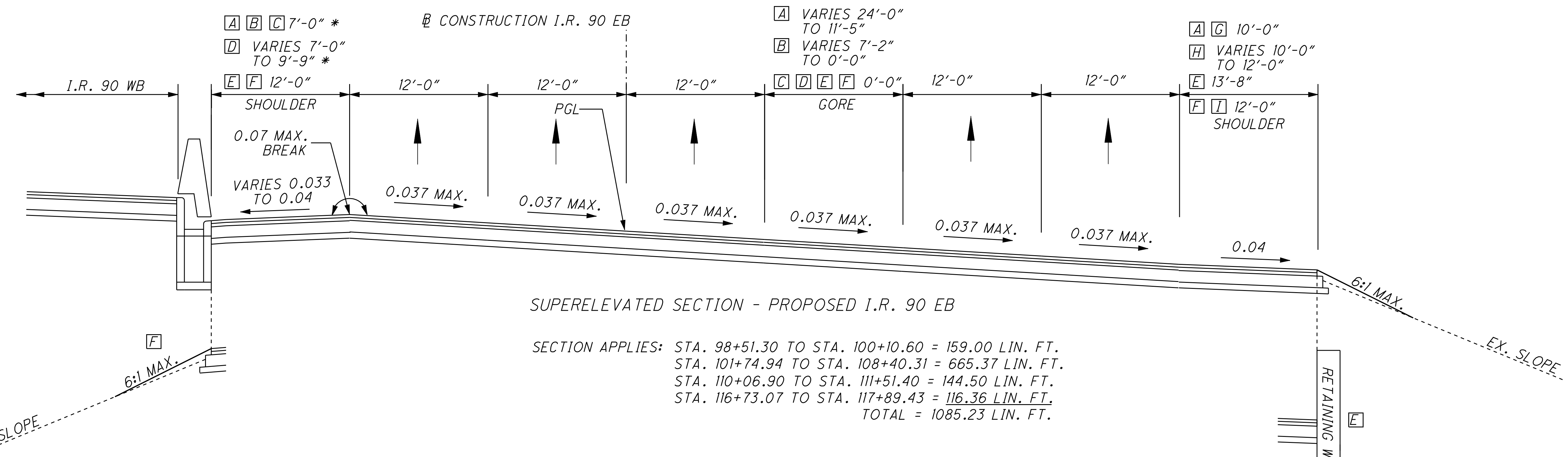
Revision Date: January 29, 2010



- Addendum No. 4 - Updated Plan Sheets

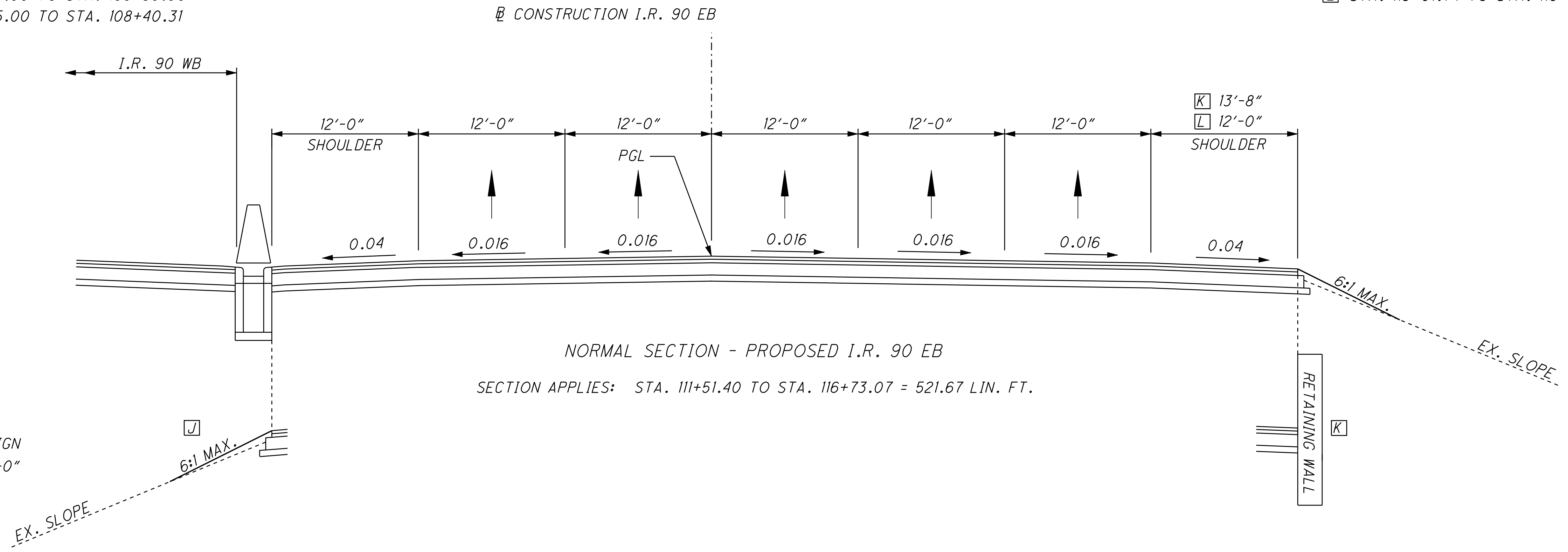


\* NORMAL DESIGN CRITERIA = 12'-0"



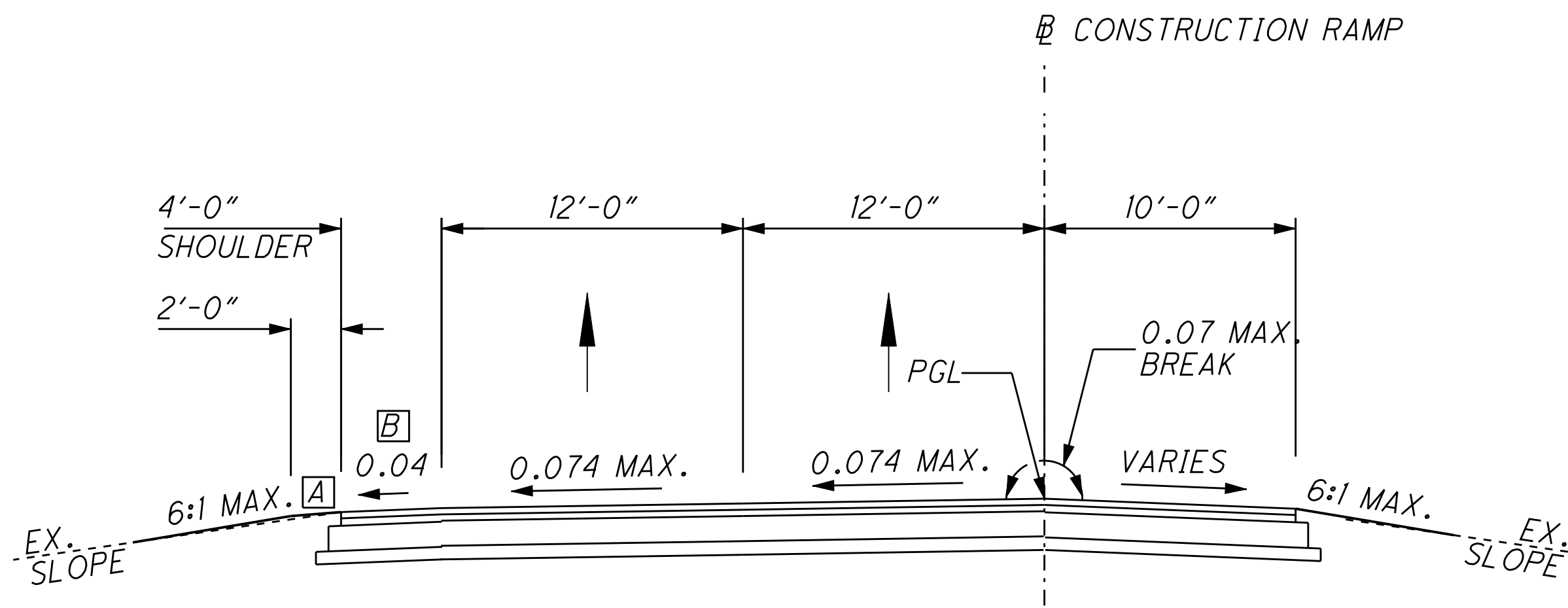
- A STA. 98+51.30 TO STA. 100+10.60
- B STA. 101+74.94 TO STA. 105+34.51
- C STA. 105+34.51 TO STA. 106+32.03
- D STA. 106+32.03 TO STA. 108+40.31
- E STA. 110+06.90 TO STA. 111+51.40
- F STA. 116+73.07 TO STA. 117+89.43
- G STA. 101+74.94 TO STA. 104+35.00
- H STA. 104+35.00 TO STA. 105+35.00
- I STA. 105+35.00 TO STA. 108+40.31

- J STA. 111+83.68 TO STA. 116+73.07
- K STA. 111+51.40 TO STA. 113+01.74
- L STA. 113+01.74 TO STA. 116+73.07

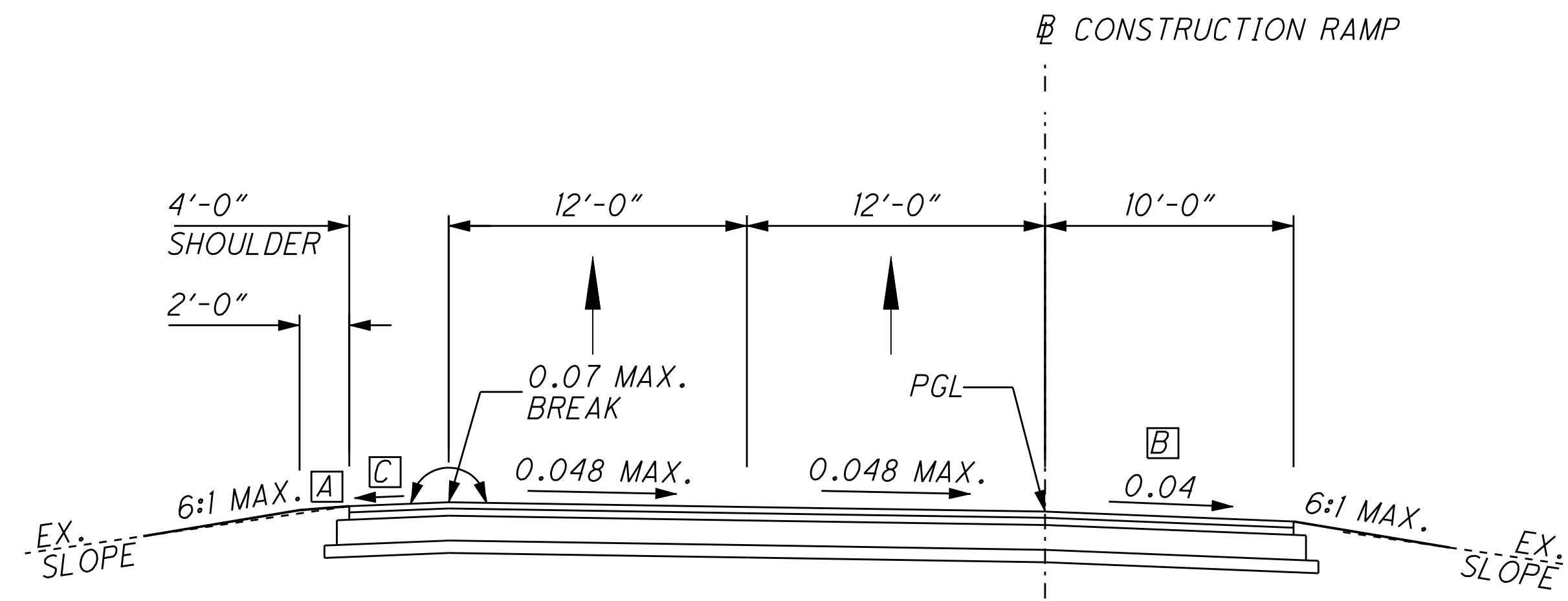


\* NORMAL DESIGN  
CRITERIA = 12'-0"

p:\pr40566\cadd\rdw\sh\cca2\77332.v001.dgn

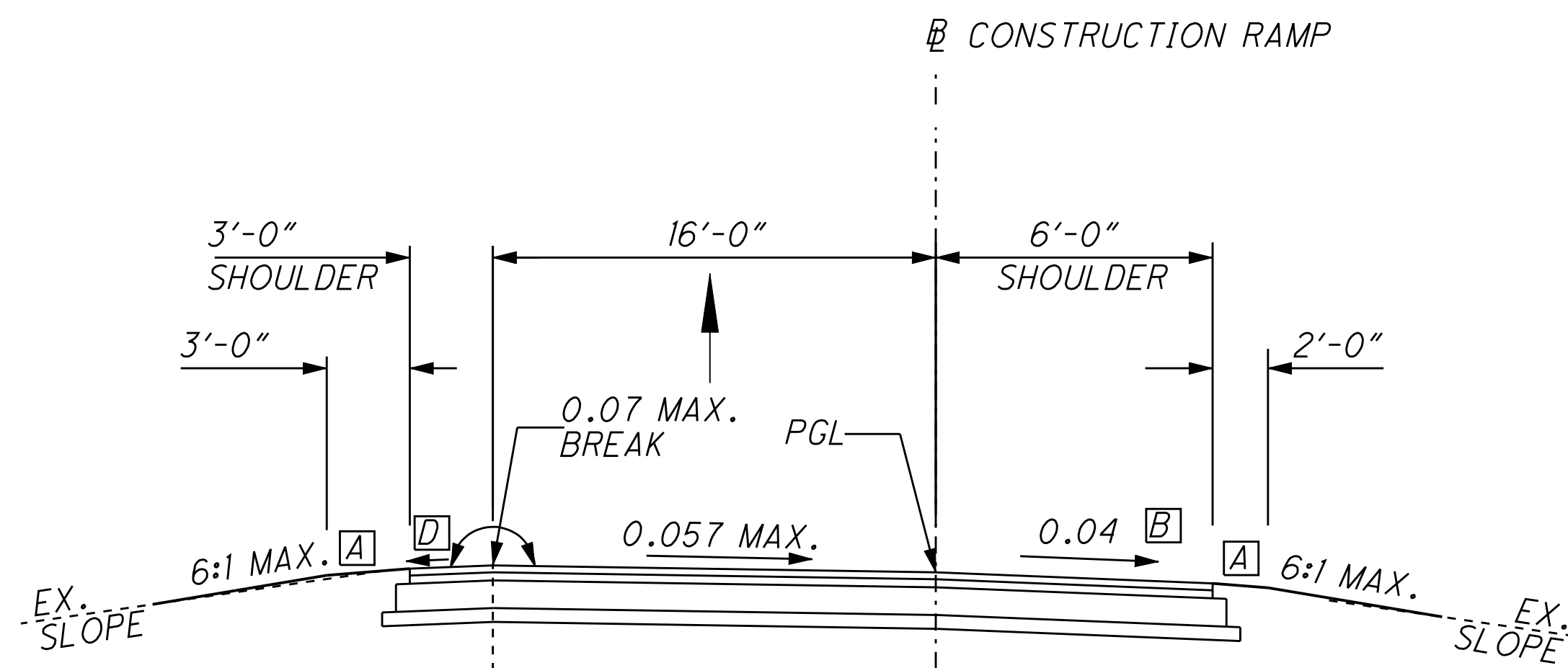


**SUPERELEVATED RAMP SECTION**  
SECTION APPLIES:  
RAMP B1 - STA. 1100+92.58 TO STA. 1104+52.58 = 360.00 LIN. FT.

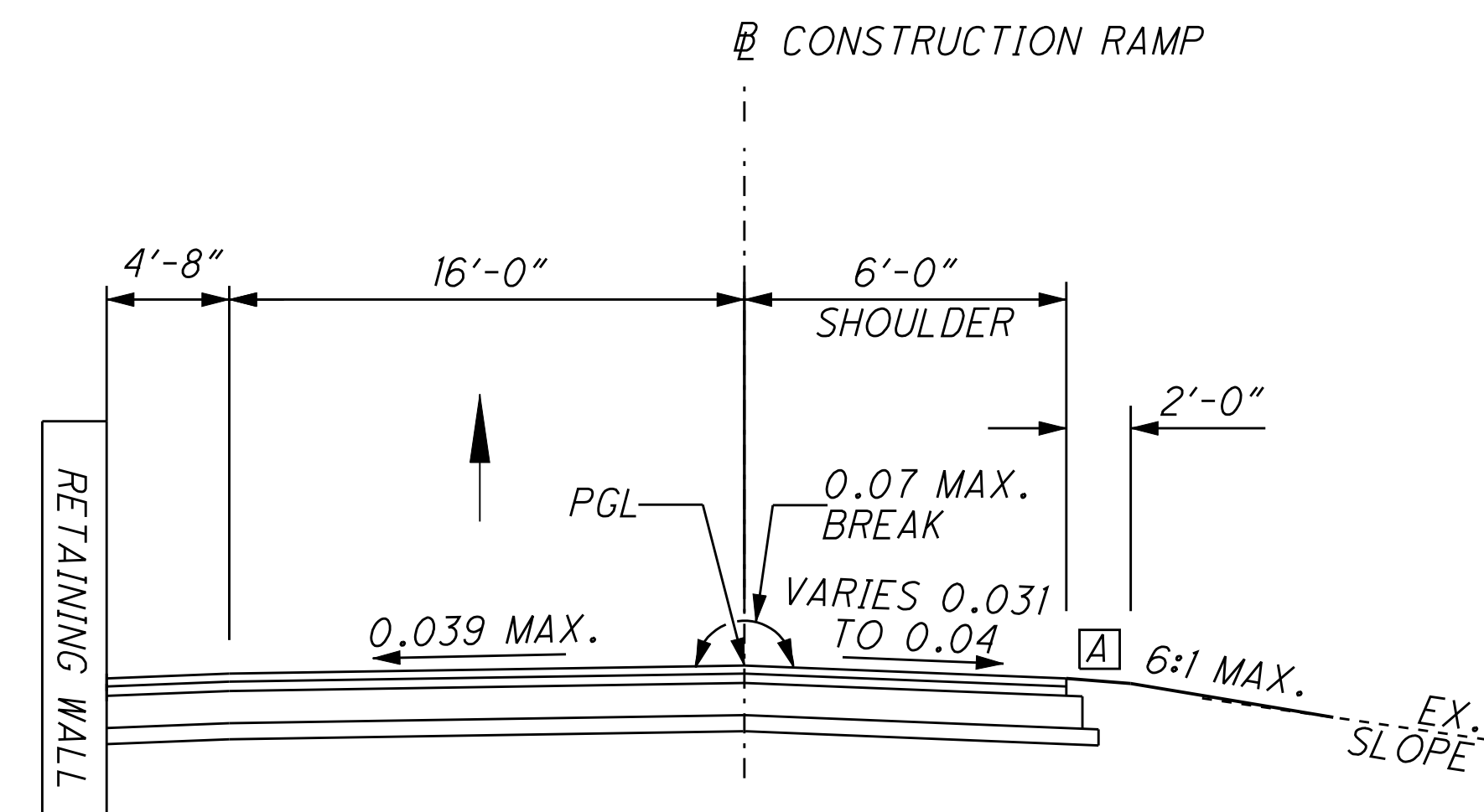


**SUPERELEVATED RAMP SECTION**  
SECTION APPLIES:  
RAMP B1 - STA. 1104+52.58 TO STA. 1106+82.98 = 230.40 LIN. FT.

- [A] 0.08 SLOPE
- [B] OR PAVEMENT SLOPE, WHICHEVER IS GREATER
- [C] VARIES 0.022 TO 0.04
- [D] VARIES 0.013 TO 0.04



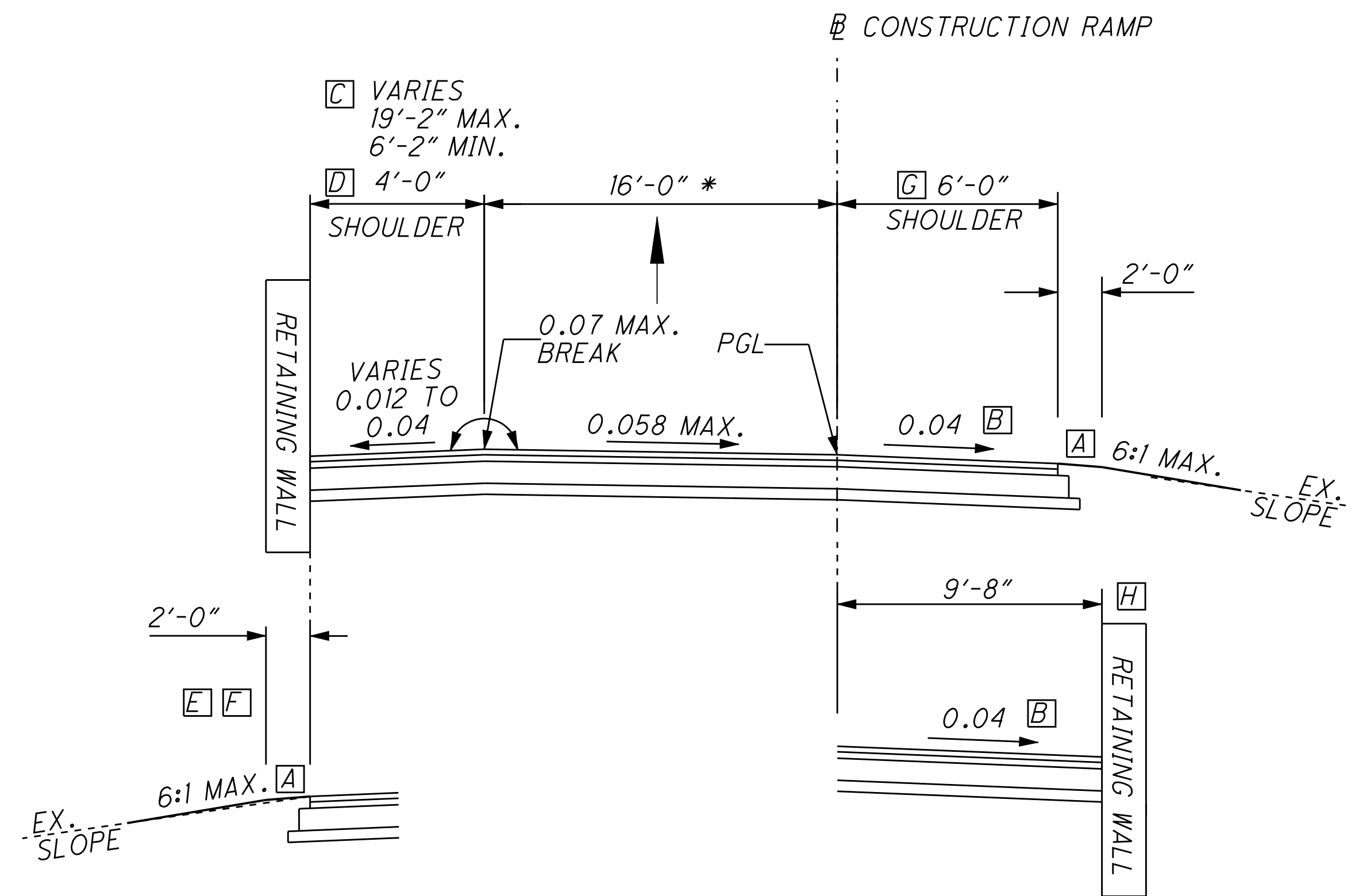
**SUPERELEVATED RAMP SECTION**  
SECTION APPLIES:  
RAMP B2 - STA. 1201+03.31 TO STA. 1204+08.73 = 305.42 LIN. FT.



**SUPERELEVATED RAMP SECTION**  
SECTION APPLIES:  
RAMP B2 - STA. 1204+08.73 TO STA. 1206+35.76 = 227.03 LIN. FT.

[E] STA. 1201+98.33 TO STA. 1204+08.73

- [A] 0.08 SLOPE
- [B] OR PAVEMENT SLOPE, WHICHEVER IS GREATER
- [C] STA. 1312+94.10 TO STA. 1316+75.33
- [D] STA. 1316+75.33 TO STA. 1322+63.52
- [E] STA. 1316+75.33 TO STA. 1317+01.67
- [F] STA. 1320+22.88 TO STA. 1322+63.52
- [G] STA. 1313+82.54 TO STA. 1322+63.52
- [H] STA. 1312+94.10 TO STA. 1313+82.54

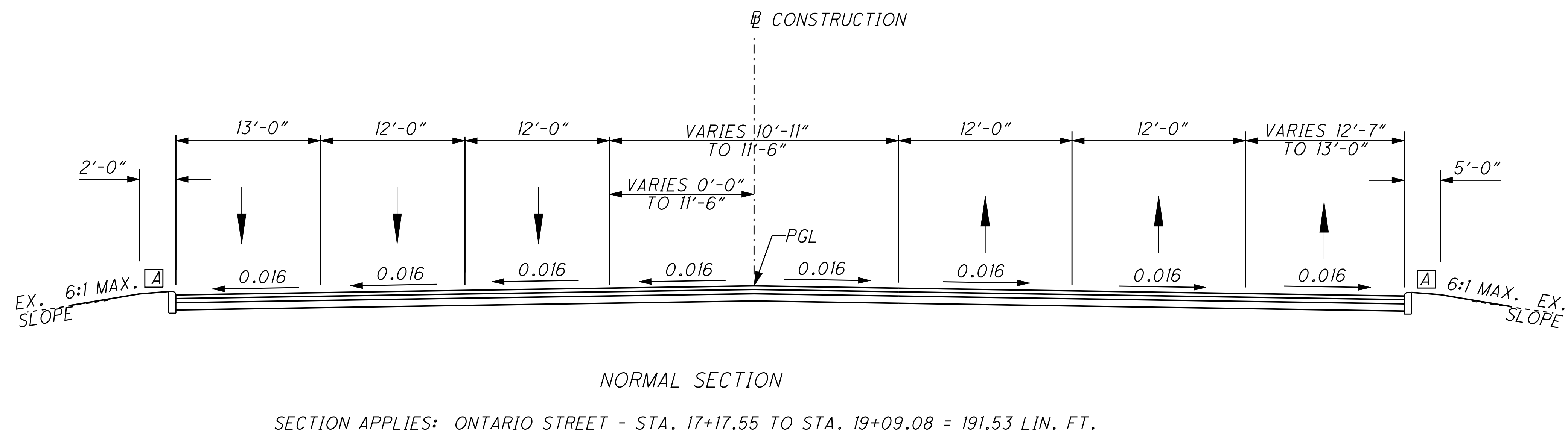
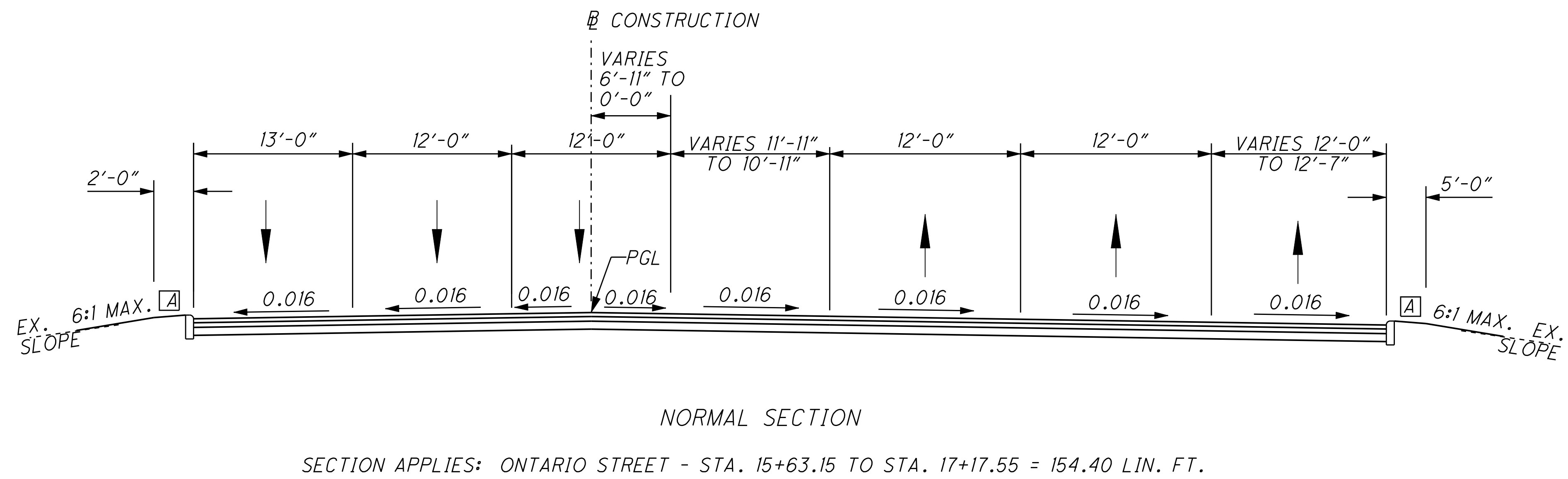
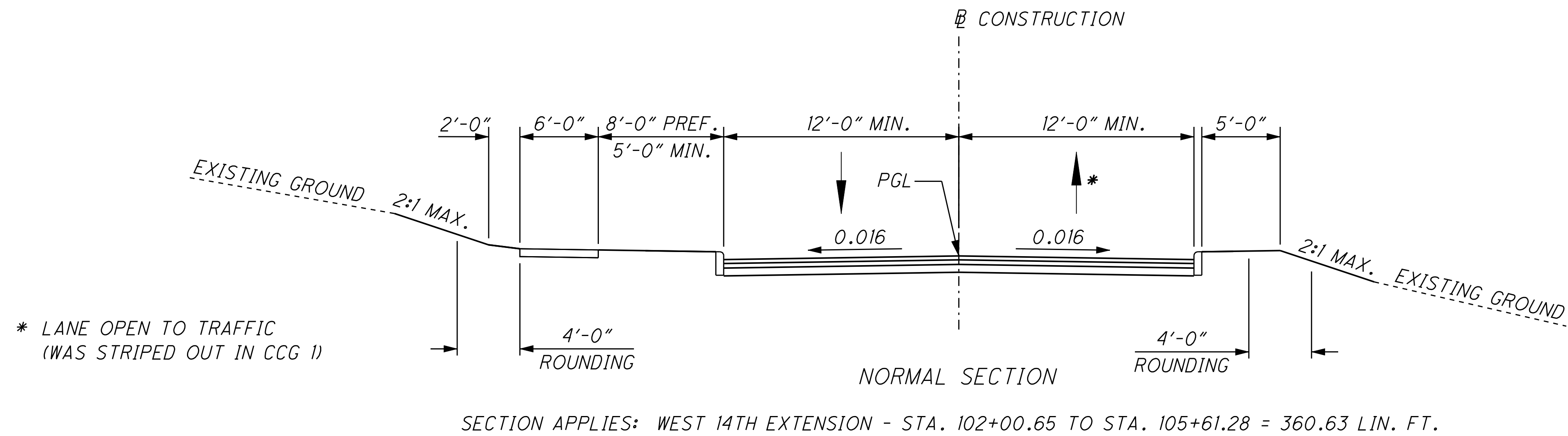


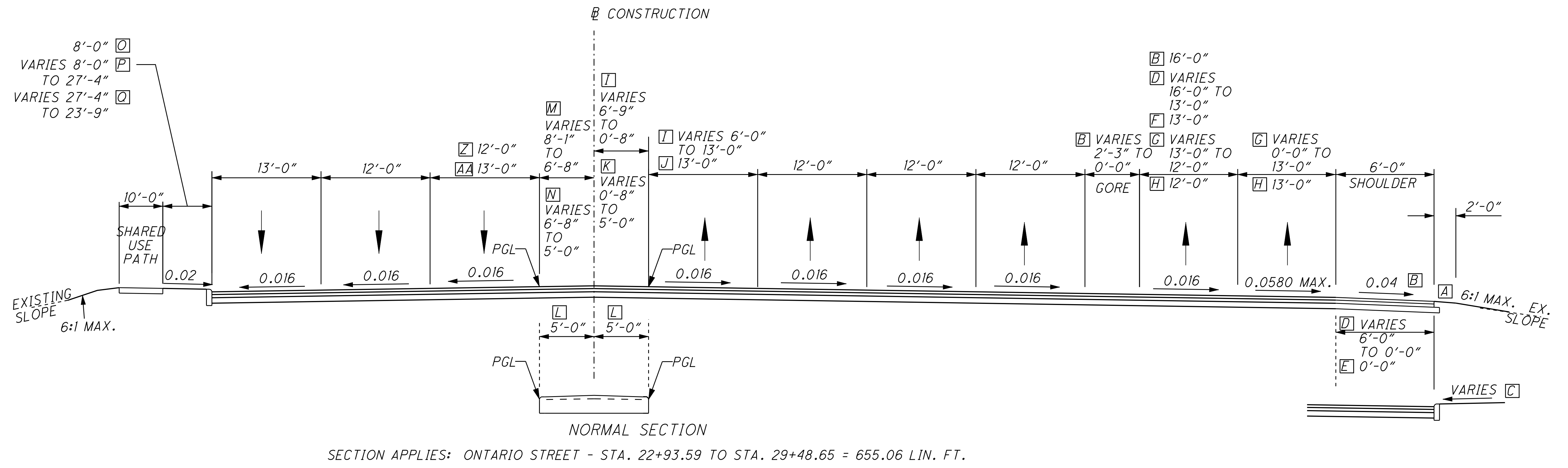
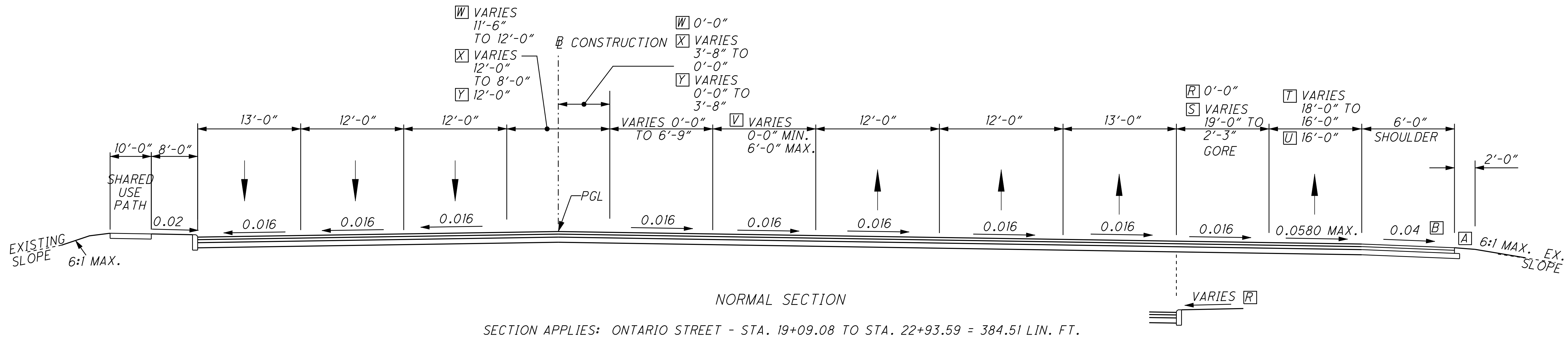
**SUPERELEVATED RAMP SECTION**

SECTION APPLIES:

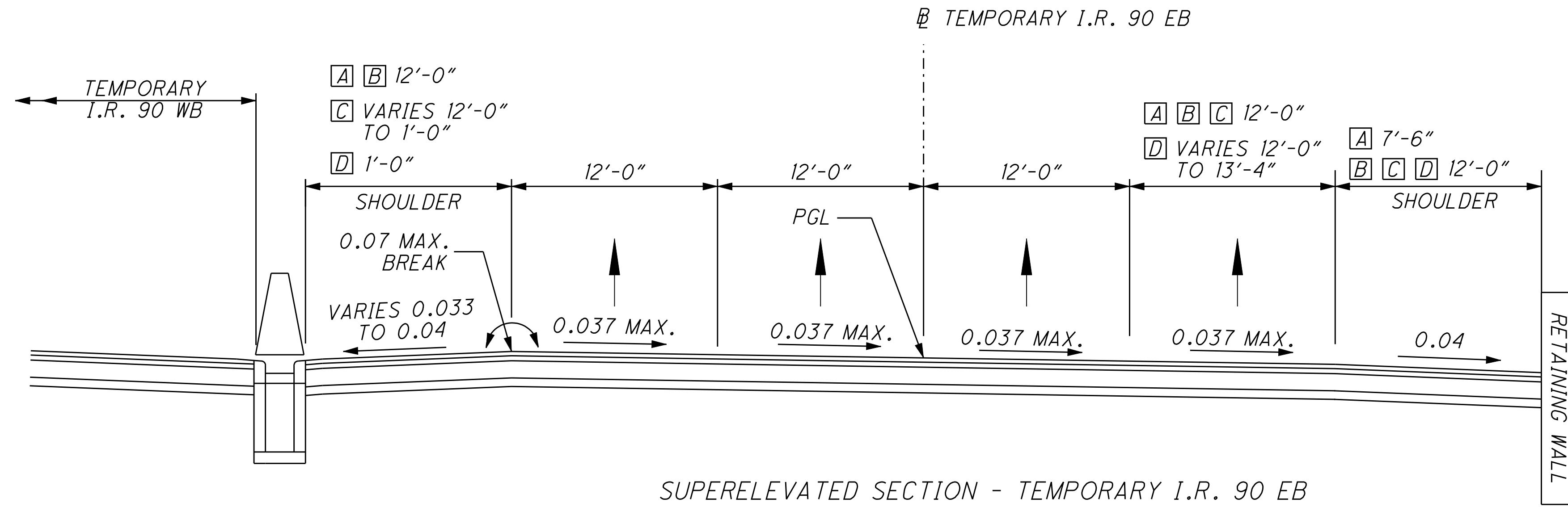
RAMP B3 - STA. 1312+94.10 TO STA. 1322+63.52 = 969.42 LIN. FT.

\* WIDEN CURVES AS REQUIRED PER ODOT LOCATION AND DESIGN MANUAL, VOLUME ONE.





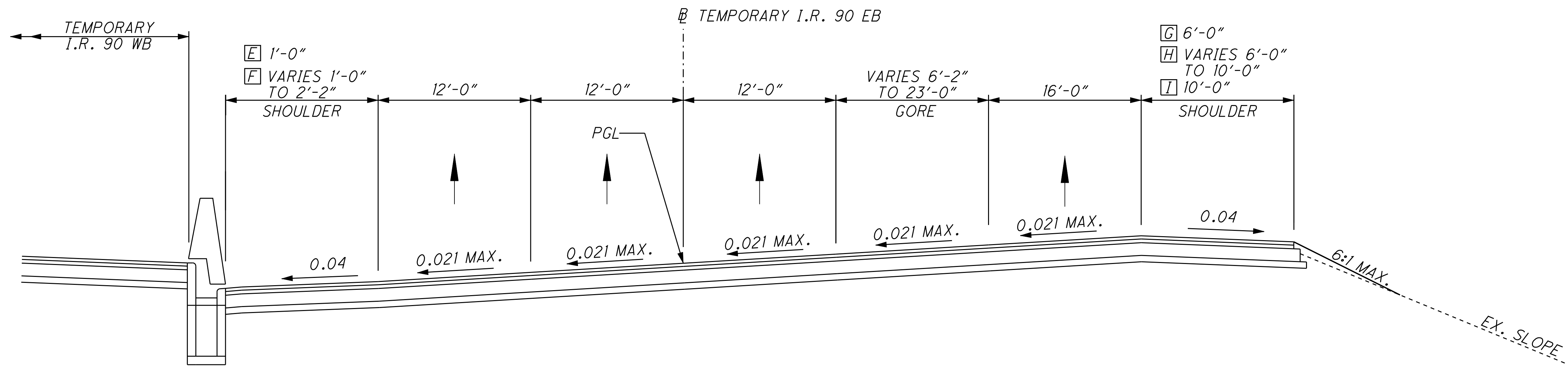
- |                                    |                                    |                                    |                                    |                                     |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| [A] 0.08 SLOPE                     | [F] STA. 24+69.57 TO STA. 25+91.18 | [K] STA. 23+20.01 TO STA. 24+51.10 | [P] STA. 24+22.13 TO STA. 26+99.04 | [U] STA. 22+63.14 TO STA. 22+93.59  |
| [B] STA. 22+93.59 TO STA. 23+45.22 | [G] STA. 25+91.18 TO STA. 26+41.18 | [L] STA. 24+51.10 TO STA. 29+48.65 | [Q] STA. 26+99.04 TO STA. 29+48.65 | [V] STA. 22+69.13 TO STA. 22+93.59  |
| [C] STA. 23+45.22 TO STA. 29+48.65 | [H] STA. 26+41.18 TO STA. 29+48.65 | [M] STA. 22+93.59 TO STA. 23+24.76 | [R] STA. 19+09.08 TO STA. 21+37.85 | [W] STA. 19+09.08 TO STA. 19+27.45  |
| [D] STA. 23+45.22 TO STA. 24+69.57 | [I] STA. 22+93.59 TO STA. 23+20.01 | [N] STA. 23+24.76 TO STA. 24+51.10 | [S] STA. 21+37.85 TO STA. 23+56.41 | [X] STA. 22+74.90 TO STA. 22+93.59  |
| [E] STA. 24+69.57 TO STA. 29+48.65 | [J] STA. 23+20.01 TO STA. 29+48.65 | [O] STA. 22+93.59 TO STA. 24+22.13 | [T] STA. 21+37.85 TO STA. 22+63.14 | [Y] STA. 19+27.45 TO STA. 22+74.90  |
|                                    |                                    |                                    |                                    | [Z] STA. 22+93.59 TO STA. 23+24.77  |
|                                    |                                    |                                    |                                    | [AA] STA. 23+24.77 TO STA. 29+48.65 |



SUPERELEVATED SECTION - TEMPORARY I.R. 90 EB

SECTION APPLIES: STA. 1902+73.20 TO STA. 1907+04.85 = 431.65 LIN. FT.

- A STA. 1902+73.20 TO STA. 1902+99.11
- B STA. 1902+99.11 TO STA. 1903+50.00
- C STA. 1903+50.00 TO STA. 1906+26.32
- D STA. 1906+26.32 TO STA. 1907+04.85

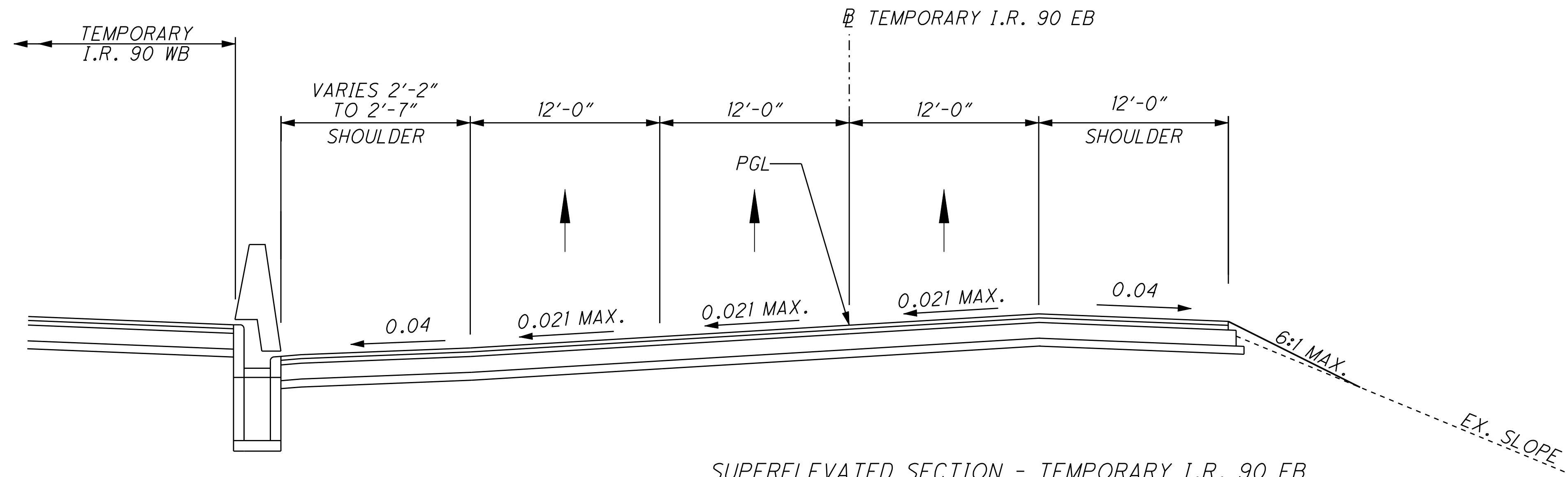


SUPERELEVATED SECTION - TEMPORARY I.R. 90 EB

SECTION APPLIES: STA. 1909+41.07 TO STA. 1910+94.04 = 152.97 LIN. FT.

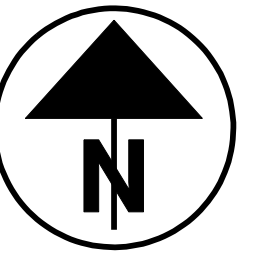
- E STA. 1909+41.07 TO STA. 1909+87.83
- F STA. 1909+87.83 TO STA. 1910+94.04
- G STA. 1909+41.07 TO STA. 1909+83.93
- H STA. 1909+83.93 TO STA. 1910+68.11
- I STA. 1910+68.11 TO STA. 1910+94.04



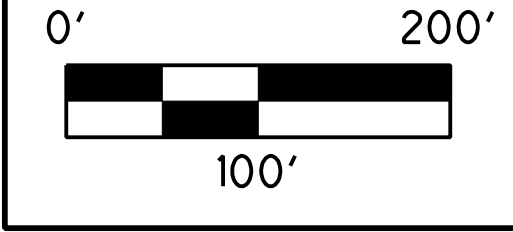


SUPERELEVATED SECTION - TEMPORARY I.R. 90 EB  
 SECTION APPLIES: STA. 1910+94.04 TO STA. 1911+29.31 = 35.27 LIN. FT.

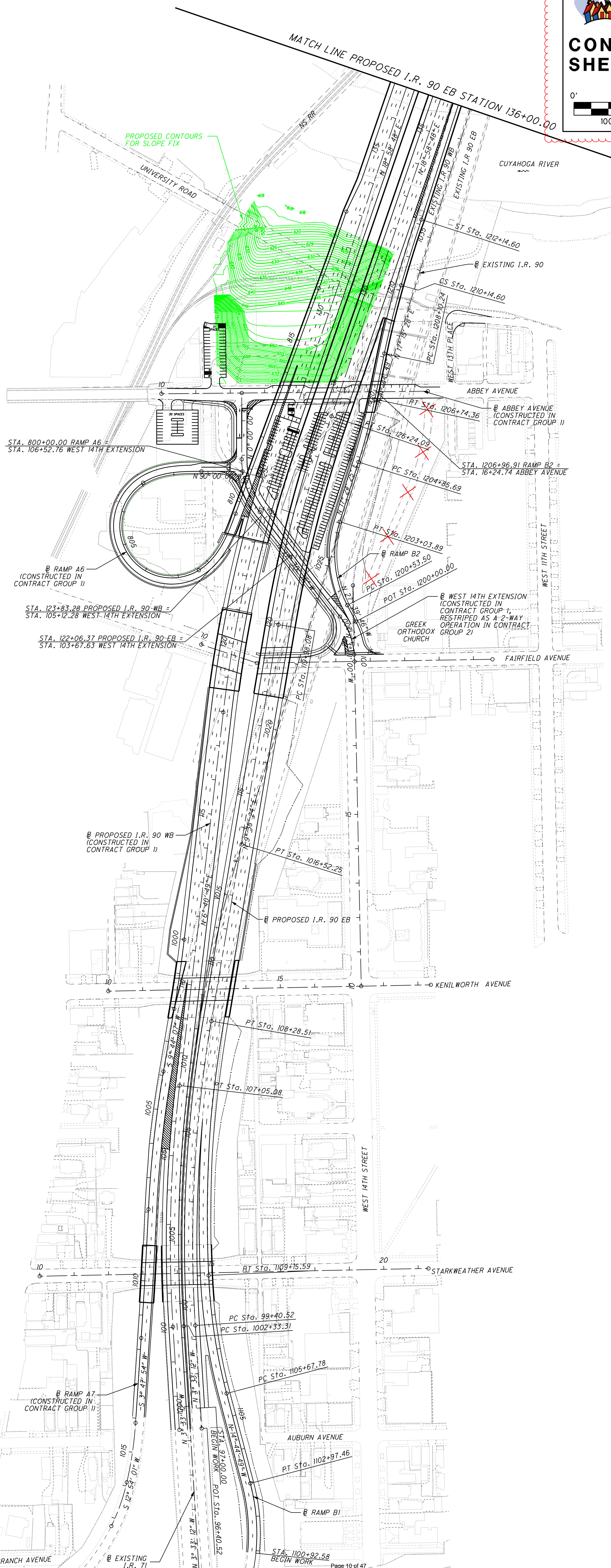




**CONTRACT GROUP 2 - SHEET 1**



**JANUARY 29, 2010**  
**DRAFT**



**PROPOSED I.R. 90 EB**

P.I. STA. 103+86.47  
 $\Delta = 13^\circ 08' 36''$  (RT)  
 $Dc = 1^\circ 28' 48''$   
 $R = 3,871.03'$   
 $T = 445.95'$   
 $L = 887.99'$   
 $E = 25.60'$   
 PC Sta. 99+40.52  
 PT Sta. 108+28.51  
 $e_{max} = 0.037$   
 $V_{DES} = 60$  MPH  
 WIDENING = N/A

P.I. STA. 123+11.79  
 $\Delta = 9^\circ 23' 24''$  (RT)  
 $Dc = 1^\circ 30' 00''$   
 $R = 3,819.72'$   
 $T = 313.70'$   
 $L = 626.00'$   
 $E = 12.86'$   
 PC Sta. 119+98.08  
 PT Sta. 126+24.09  
 $e_{max} = 0.037$   
 $V_{DES} = 60$  MPH  
 WIDENING = N/A

**RAMP B1**

P.I. STA. 1101+52.13  
 $\Delta = 29^\circ 36' 44''$  (LT)  
 $Dc = 9^\circ 57' 18''$   
 $R = 575.54'$   
 $T = 152.13'$   
 $L = 297.46'$   
 $E = 19.77'$   
 PC Sta. 1100+00.00  
 PT Sta. 1102+97.46

P.I. STA. 1107+42.34  
 $\Delta = 12^\circ 10' 23''$  (RT)  
 $Dc = 3^\circ 30' 00''$   
 $R = 1,637.02'$   
 $T = 174.56'$   
 $L = 347.80'$   
 $E = 9.28'$   
 PC Sta. 1105+67.78  
 PT Sta. 1109+15.59  
 $e_{max} = 0.048$   
 $V_{DES} = 50$  MPH  
 WIDENING = N/A

**WEST 14TH EXTENSION**

P.I. STA. 100+81.77  
 $\Delta = 34^\circ 19' 36''$  (LT)  
 $Dc = 28^\circ 38' 52''$   
 $R = 200.00'$   
 $T = 61.77'$   
 $L = 119.82'$   
 $E = 9.32'$   
 PC Sta. 100+20.00  
 PT Sta. 101+39.82  
 $e_{max} = 25$   
 $V_{DES} = 25$  MPH  
 WIDENING = 3'/LANE

P.I. STA. 106+08.64  
 $\Delta = 37^\circ 30' 37''$  (RT)  
 $Dc = 22^\circ 44' 11''$   
 $R = 252.00'$   
 $T = 85.57'$   
 $L = 164.98'$   
 $E = 14.13'$   
 PC Sta. 105+23.08  
 PT Sta. 106+88.06  
 $e_{max} = 25$   
 $V_{DES} = 25$  MPH  
 WIDENING = 3'/LANE

**RAMP B2**

P.I. STA. 1201+85.58  
 $\Delta = 45^\circ 04' 11''$  (RT)  
 $Dc = 18^\circ 00' 00''$   
 $R = 318.31'$   
 $T = 132.08'$   
 $L = 250.39'$   
 $E = 26.31'$   
 PC Sta. 1200+53.50  
 PT Sta. 1203+03.89  
 $e_{max} = 0.057$   
 $V_{DES} = 30$  MPH  
 WIDENING = N/A

P.I. STA. 1205+80.10  
 $\Delta = 5^\circ 39' 36''$  (LT)  
 $Dc = 3^\circ 00' 00''$   
 $R = 1,909.86'$   
 $T = 94.41'$   
 $L = 188.67'$   
 $E = 2.33'$   
 PC Sta. 1204+85.69  
 PT Sta. 1206+74.36  
 $e_{max} = 0.039$   
 $V_{DES} = 45$  MPH  
 WIDENING = N/A

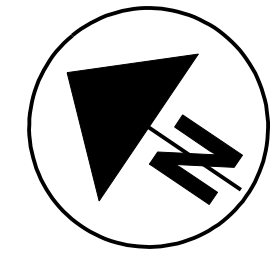
P.I. STA. 1209+68.05  
 $\Delta = 6^\circ 05' 14''$  (RT)  
 $Dc = 2^\circ 00' 00''$   
 $R = 2,864.79'$   
 $\Delta c = 4^\circ 05' 14''$  (RT)  
 $Lc = 204.36'$   
 $Es = 4.34'$   
 PC Sta. 1208+10.24  
 CS Sta. 1210+14.60  
 $e_{max} = 0.035$   
 $V_{DES} = 50$  MPH  
 WIDENING = N/A

P.I. STA. 1210+81.27  
 $Ls = 200.00'$   
 $Os = 2^\circ 00' 00''$   
 $LT = 133.34'$   
 $ST = 66.67'$   
 $x = 199.98'$   
 $y = 2.33'$   
 $k = 100.00'$   
 $p = 0.58'$   
 CS Sta. 1210+14.60  
 ST Sta. 1212+14.60

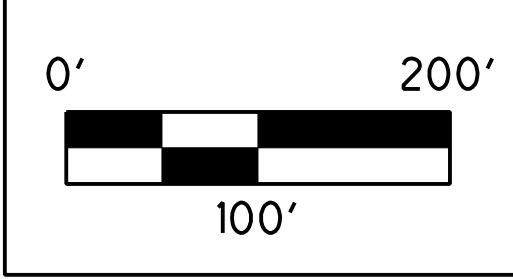
**EXISTING I.R. 90**

P.I. STA. 1009+50.69  
 $\Delta = 20^\circ 48' 40''$  (RT)  
 $Dc = 1^\circ 28' 00''$   
 $R = 3,906.53'$   
 $T = 717.37'$   
 $L = 1,418.94'$   
 $E = 65.32'$   
 PC Sta. 1002+33.31  
 PT Sta. 1016+52.25



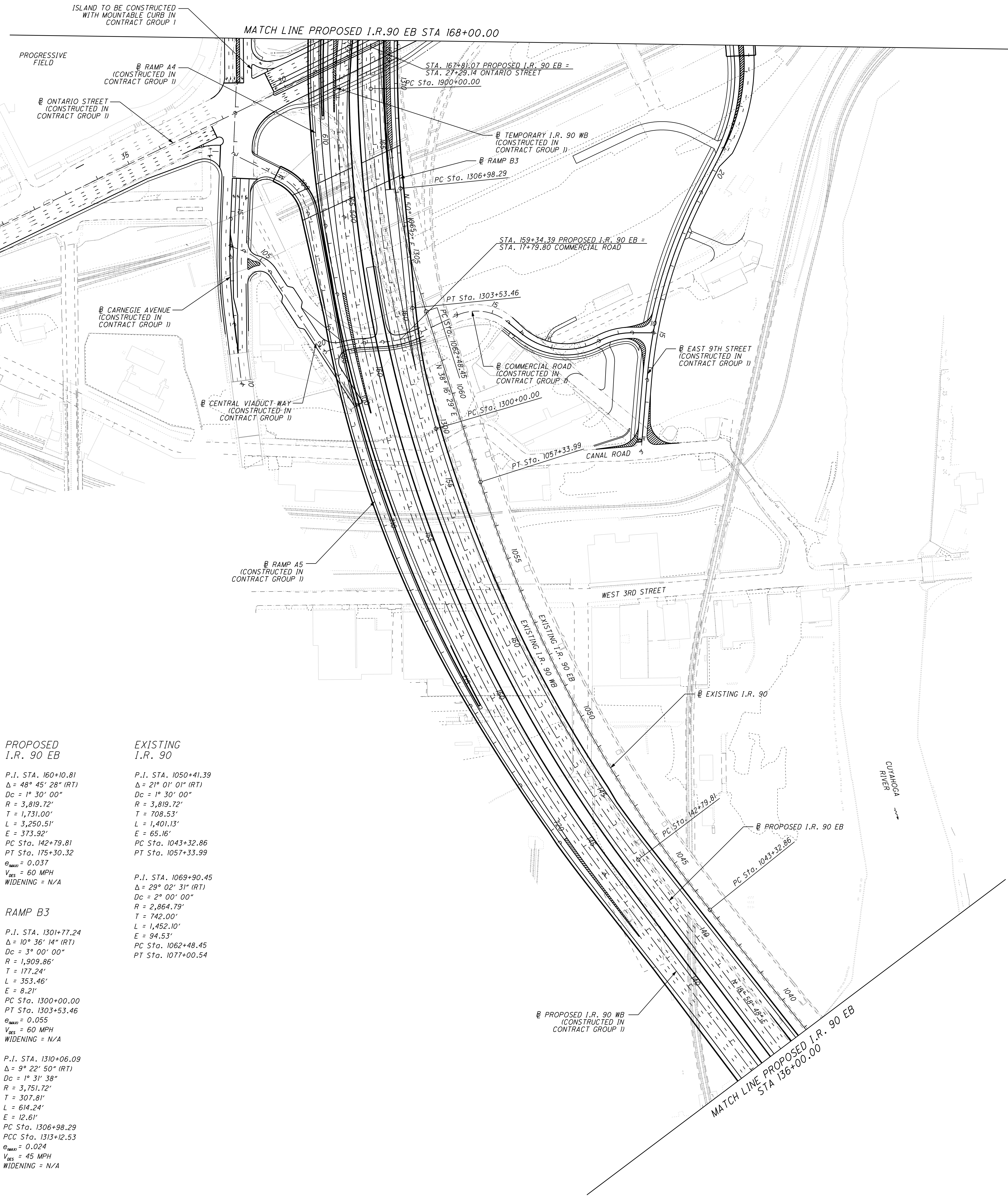


**CONTRACT GROUP 2 - SHEET 2**



**JANUARY 29, 2010**  
**DRAFT**

4



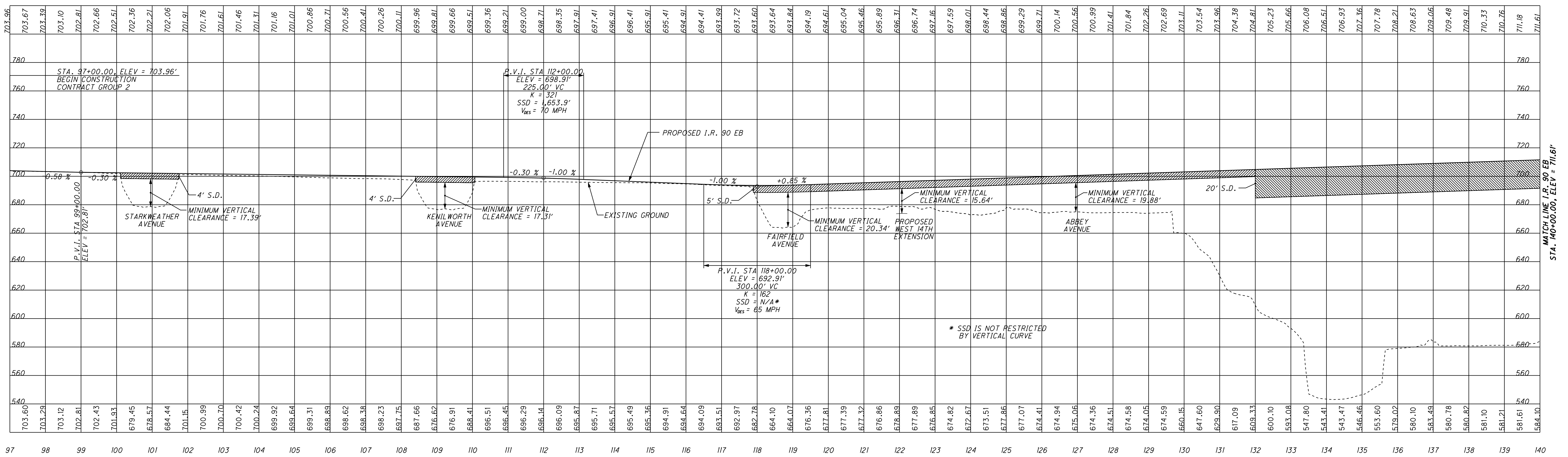
PROPOSED I.R. 90 EB	EXISTING I.R. 90
P.I. STA. 160+10.81 Δ = 48° 45' 28" (RT) Dc = 1° 30' 00" R = 3,819.72' T = 1,731.00' L = 3,250.51' E = 373.92' PC Sta. 142+79.81 PT Sta. 175+30.32 e <sub>min</sub> = 0.037 V <sub>DES</sub> = 60 MPH WIDENING = N/A	P.I. STA. 1050+41.39 Δ = 21° 01' 01" (RT) Dc = 1° 30' 00" R = 3,819.72' T = 708.53' L = 1,401.13' E = 65.16' PC Sta. 1043+32.86 PT Sta. 1057+33.99
<b>RAMP B3</b> P.I. STA. 1301+77.24 Δ = 10° 36' 14" (RT) Dc = 3° 00' 00" R = 1,909.86' T = 177.24' L = 353.46' E = 8.21' PC Sta. 1300+00.00 PT Sta. 1303+53.46 e <sub>min</sub> = 0.055 V <sub>DES</sub> = 60 MPH WIDENING = N/A	P.I. STA. 1069+90.45 Δ = 29° 02' 31" (RT) Dc = 2° 00' 00" R = 2,864.79' T = 142.00' L = 1,452.10' E = 94.53' PC Sta. 1062+48.45 PT Sta. 1077+00.54
P.I. STA. 1310+06.09 Δ = 9° 22' 50" (RT) Dc = 1° 31' 38" R = 3,751.72' T = 307.81' L = 614.24' E = 12.61' PC Sta. 1306+98.29 PCC Sta. 1313+12.53 e <sub>min</sub> = 0.024 V <sub>DES</sub> = 45 MPH WIDENING = N/A	



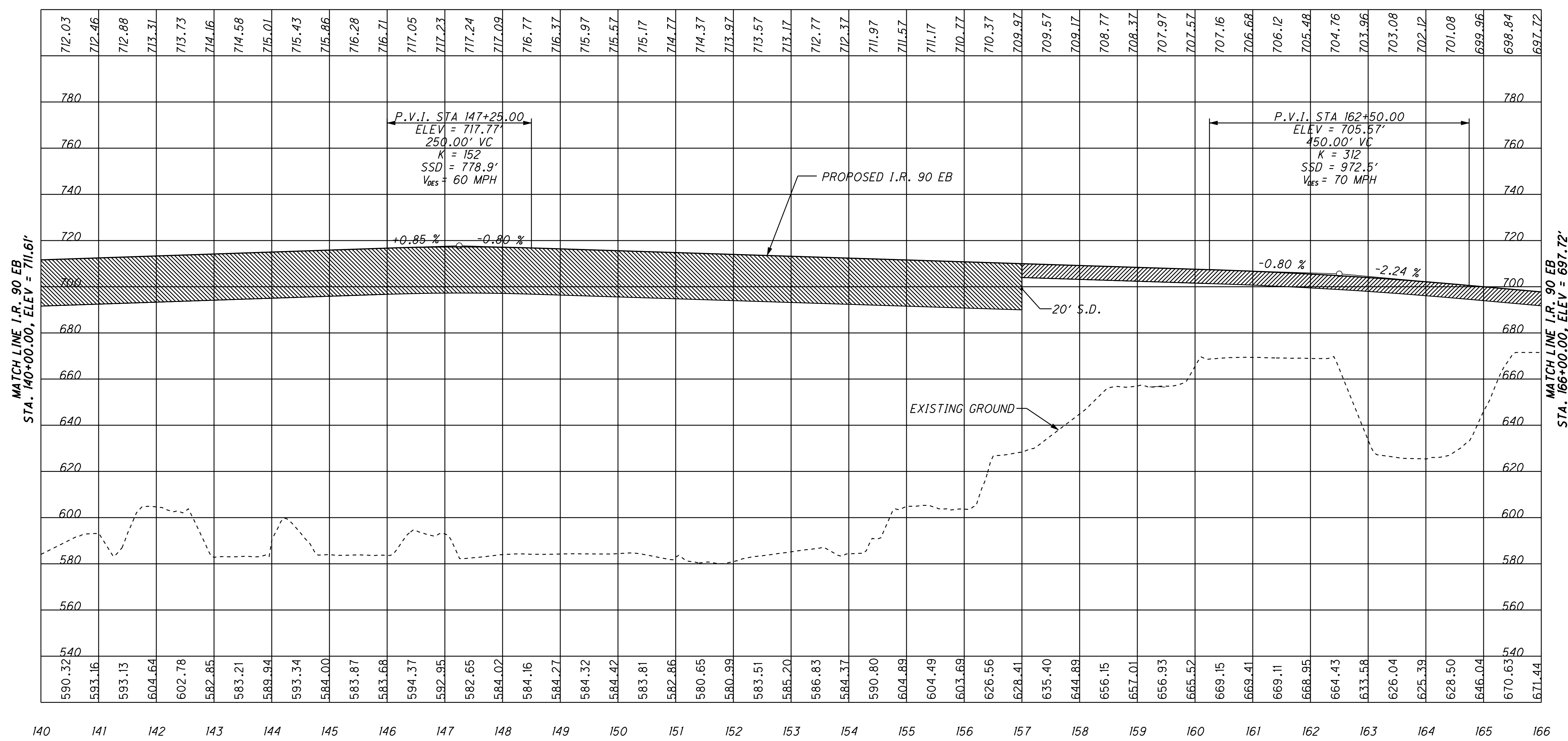




**PROPOSED I.R. 90 EB**



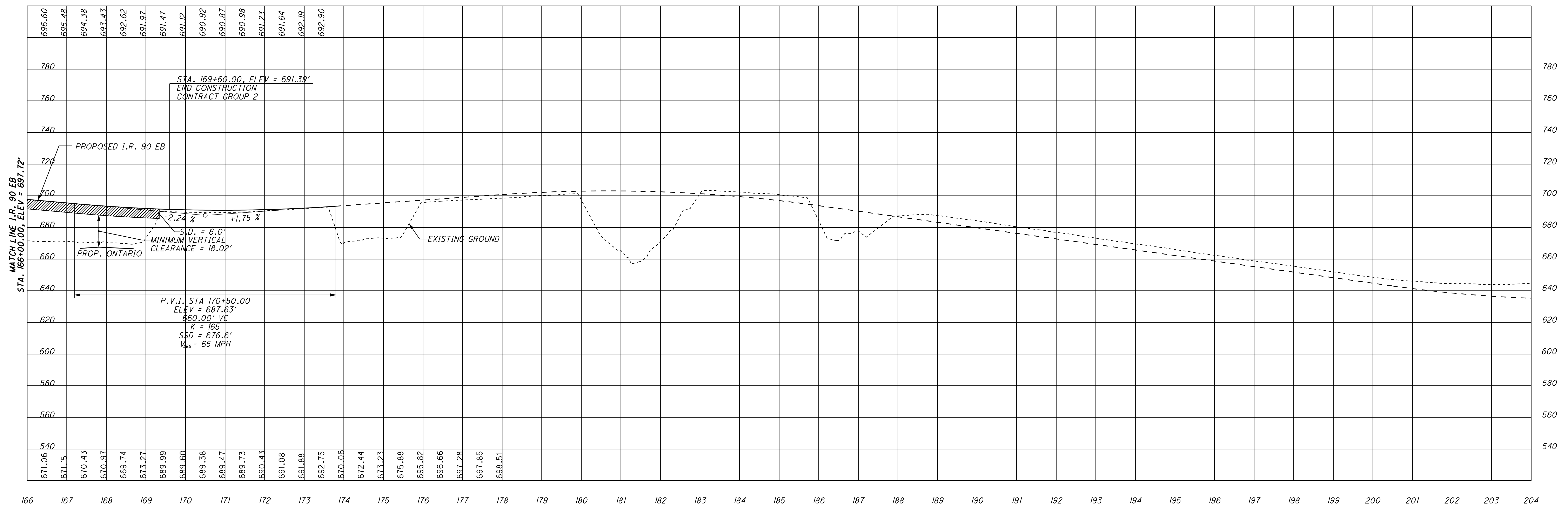
**PROPOSED I.R. 90 EB**



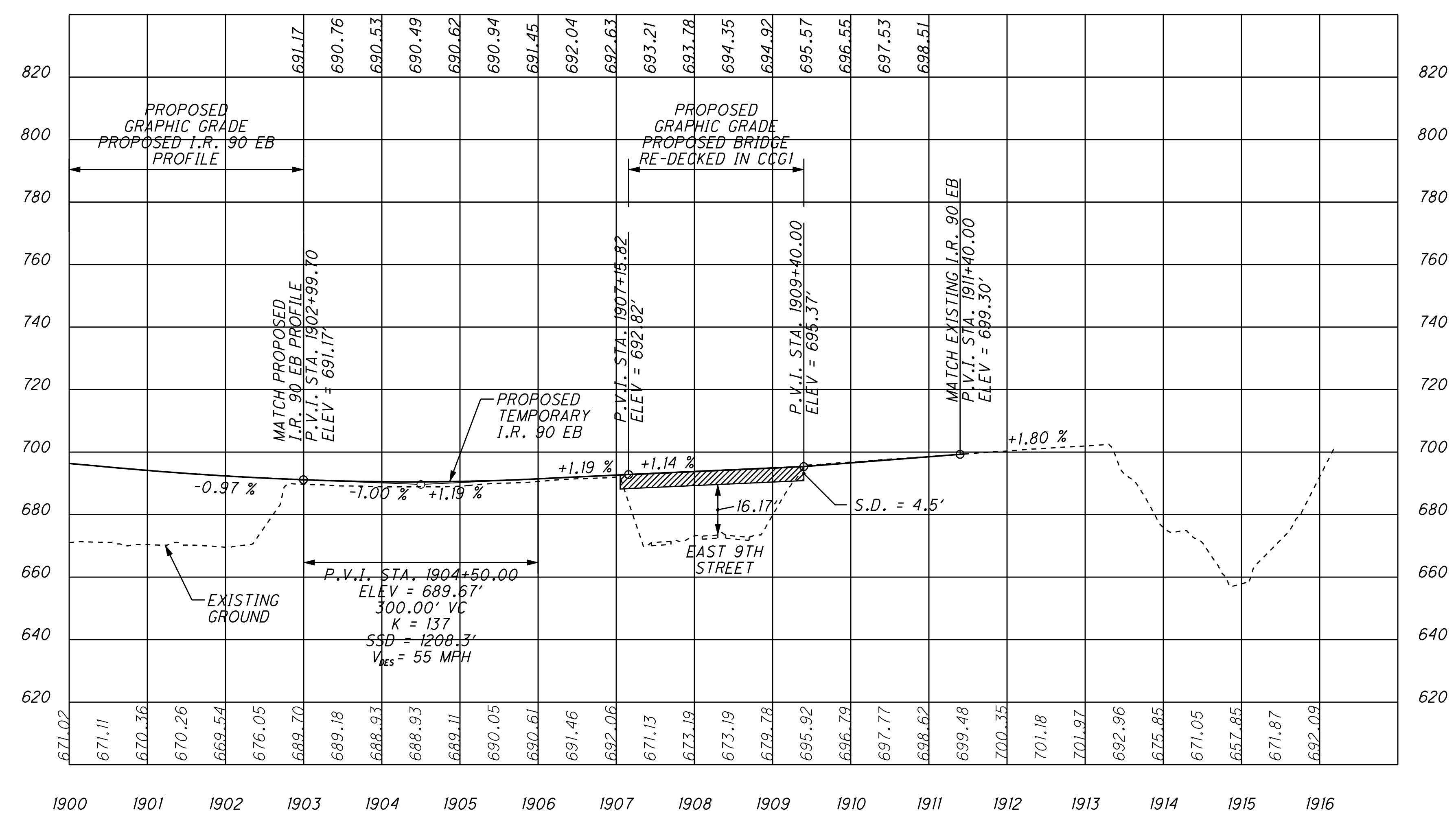
**CONSTRUCTION CONTRACT GROUP 2 PROFILES - SHEET 1**

**DECEMBER 23, 2009 DRAFT**

**PROPOSED I.R. 90 EB**



**TEMPORARY I.R. 90 EB**

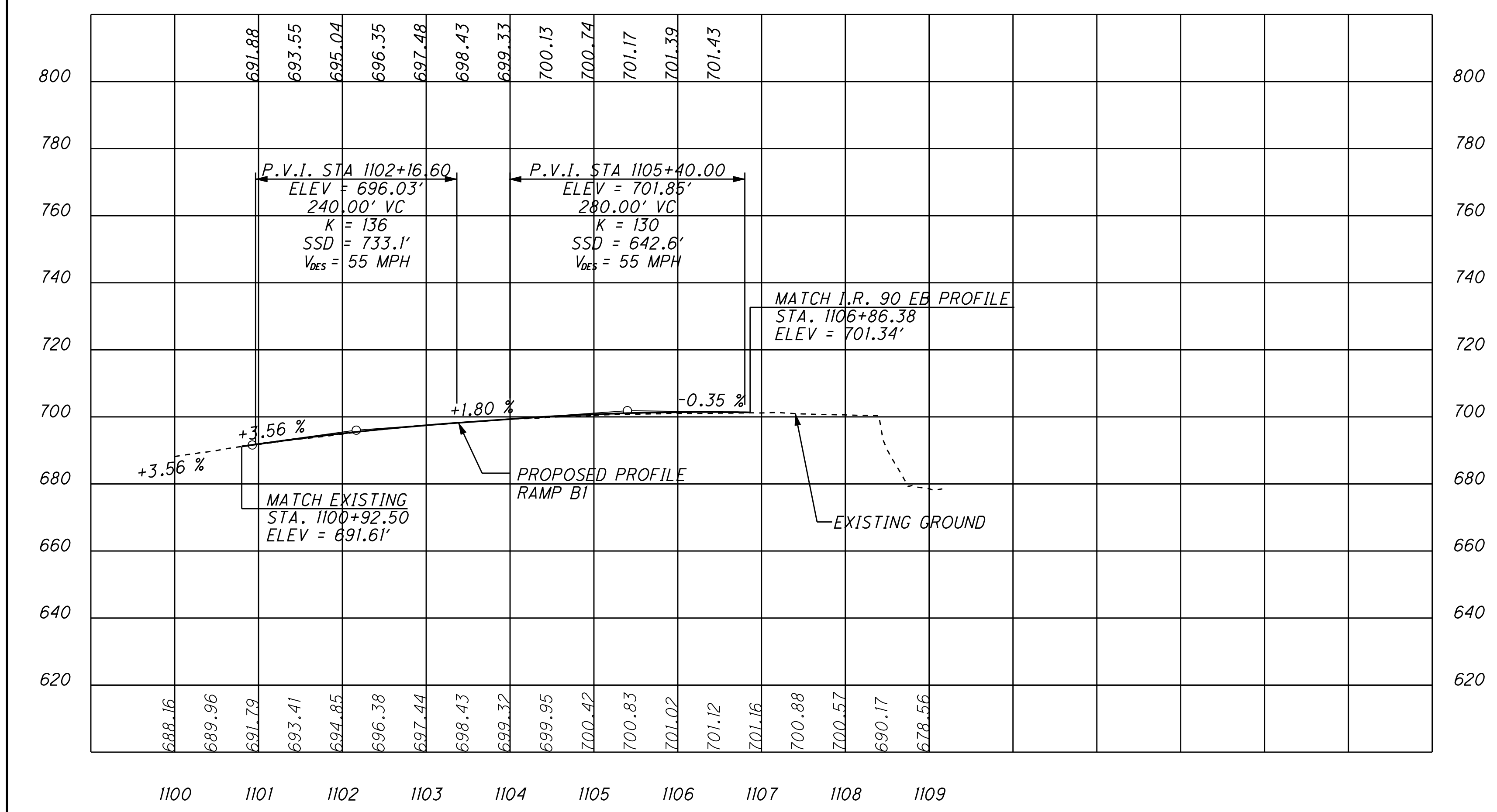


**CONSTRUCTION CONTRACT GROUP 2 PROFILES - SHEET 2**

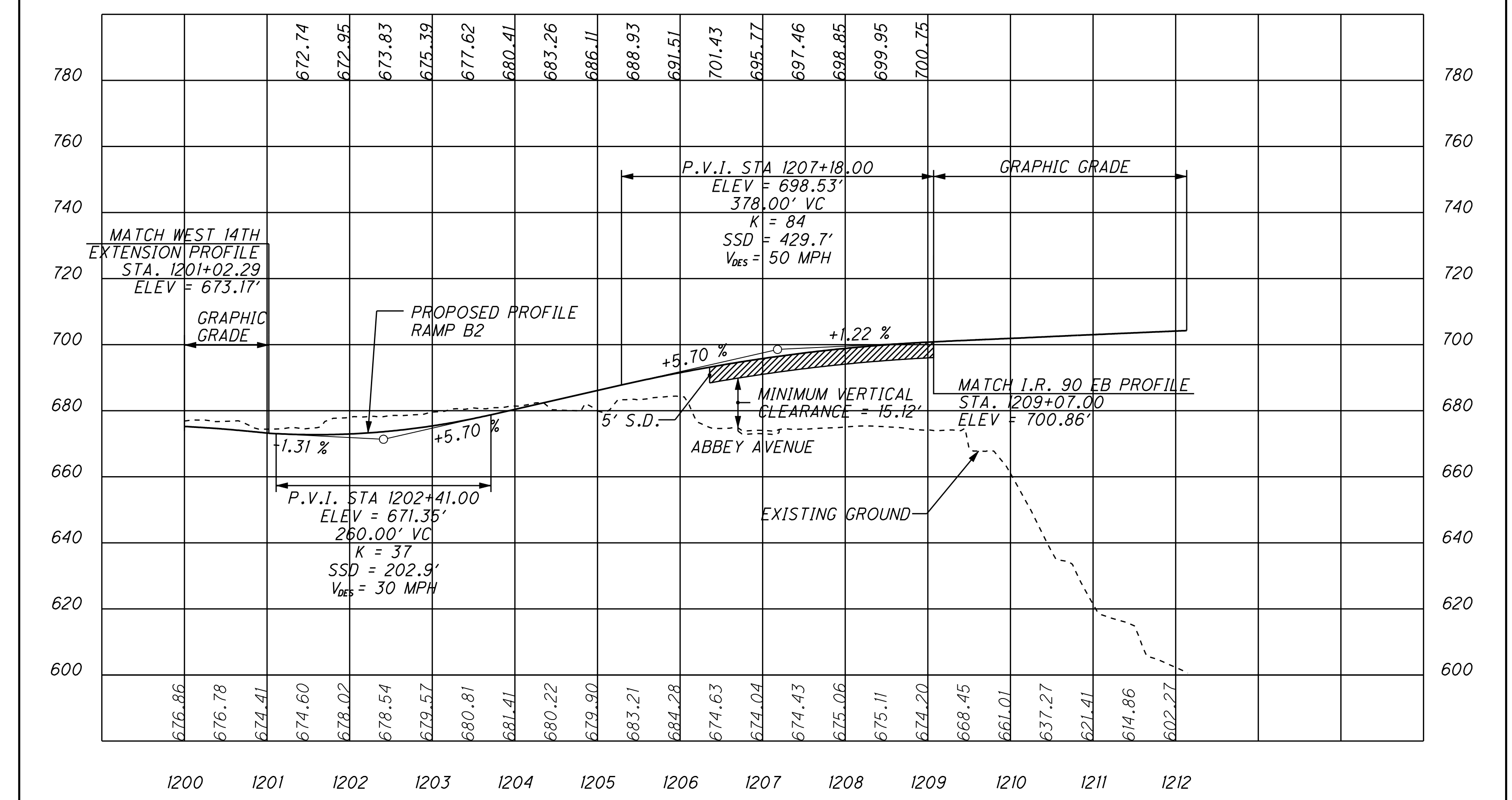
DECEMBER 23, 2009  
DRAFT



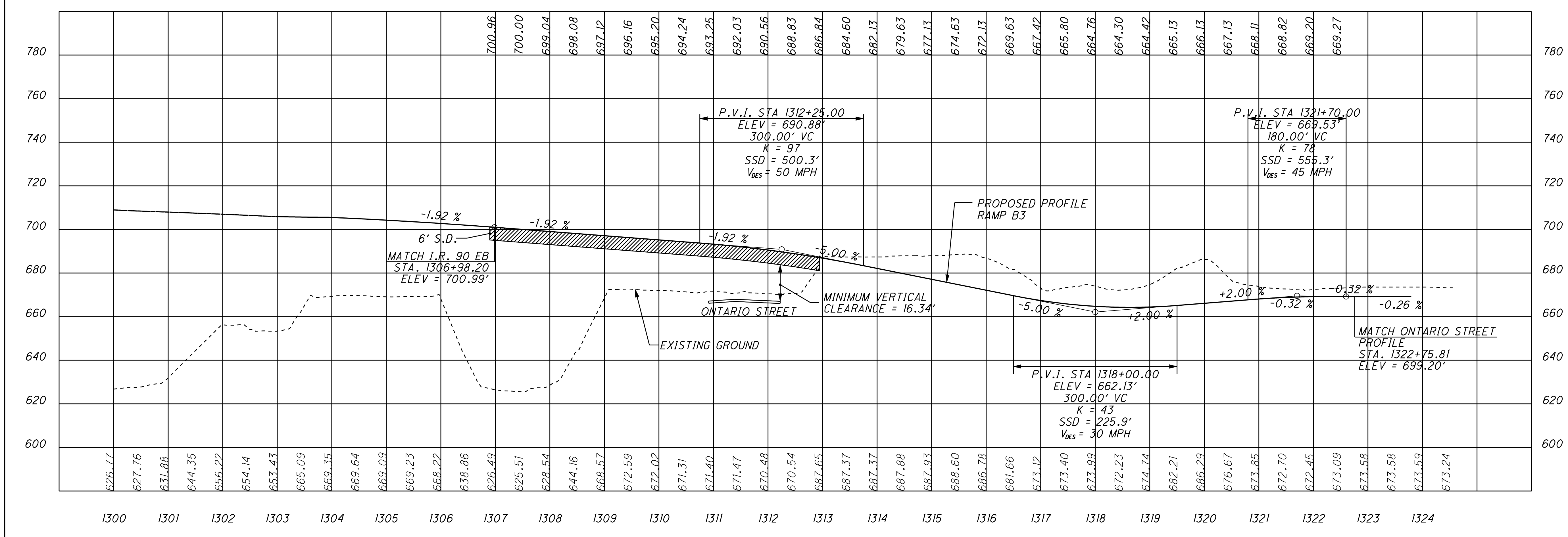
### RAMP B1



### RAMP B2



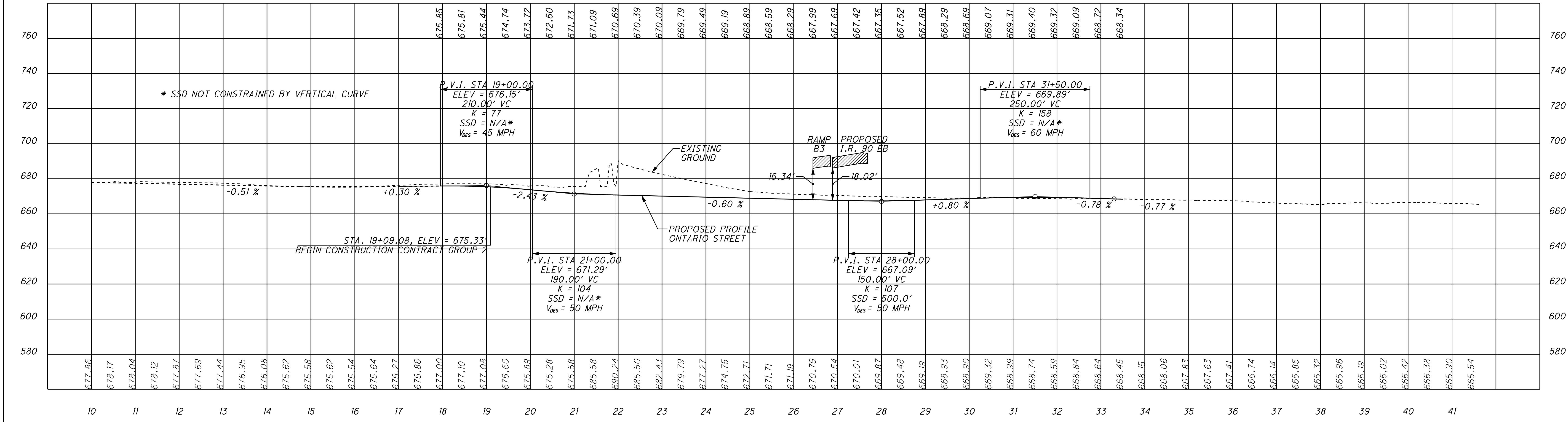
### RAMP B3



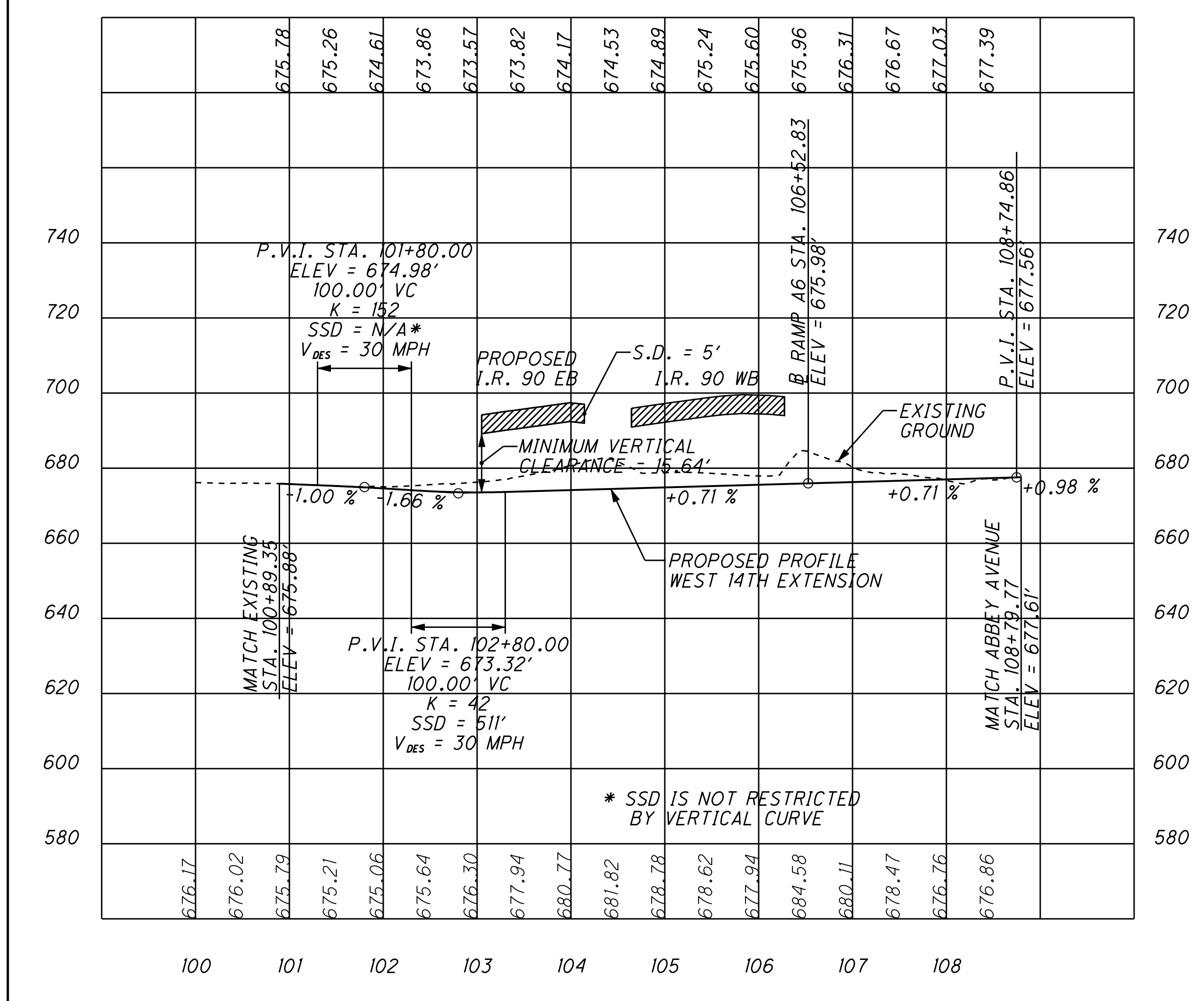
**CONSTRUCTION CONTRACT  
GROUP 2 PROFILES -  
SHEET 3**

DECEMBER 23, 2009  
DRAFT

# ONTARIO STREET



# WEST 14TH EXTENSION

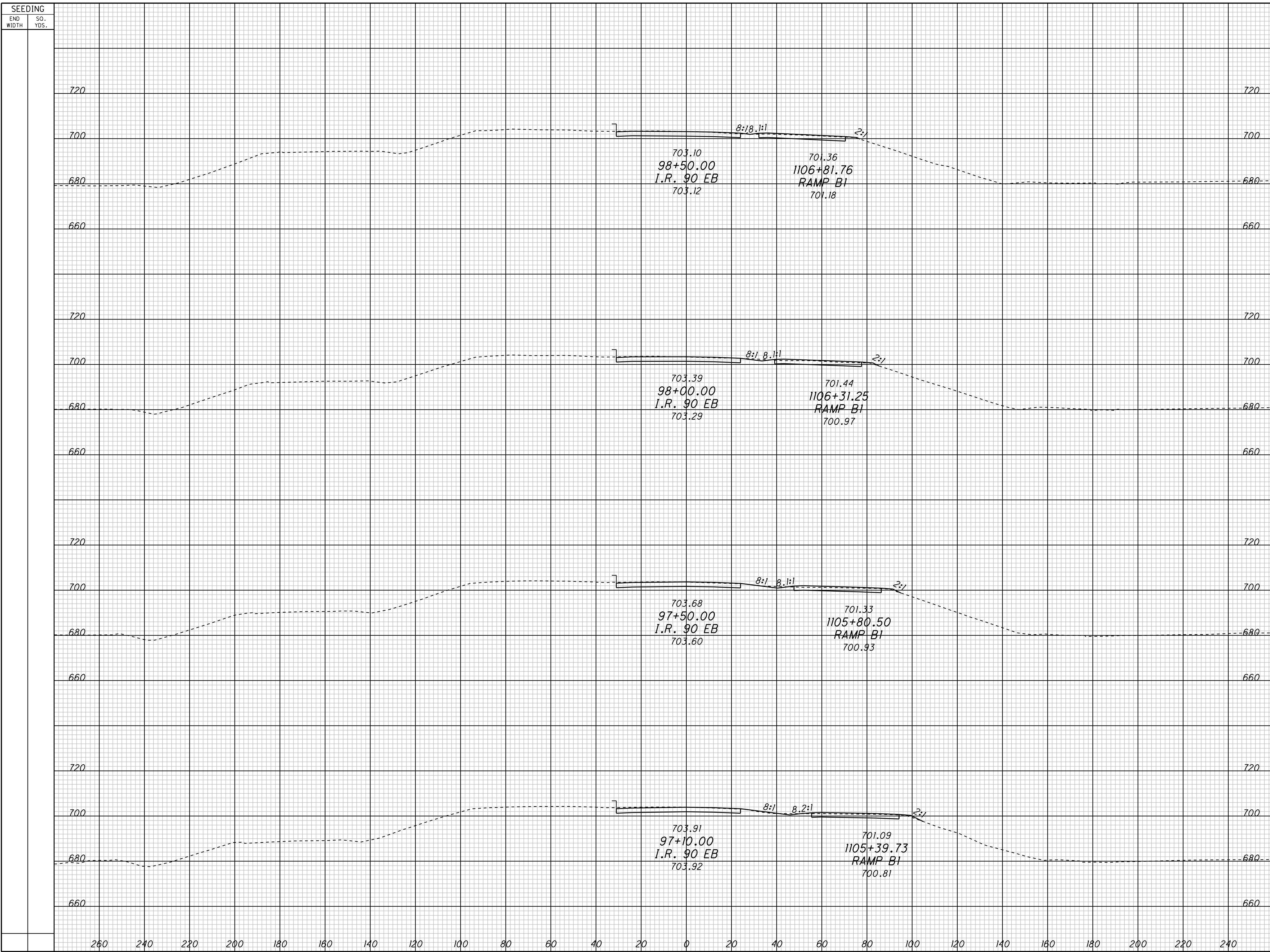


**CONSTRUCTION CONTRACT GROUP 2 PROFILES - SHEET 4**

DECEMBER 23, 2009  
DRAFT



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SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

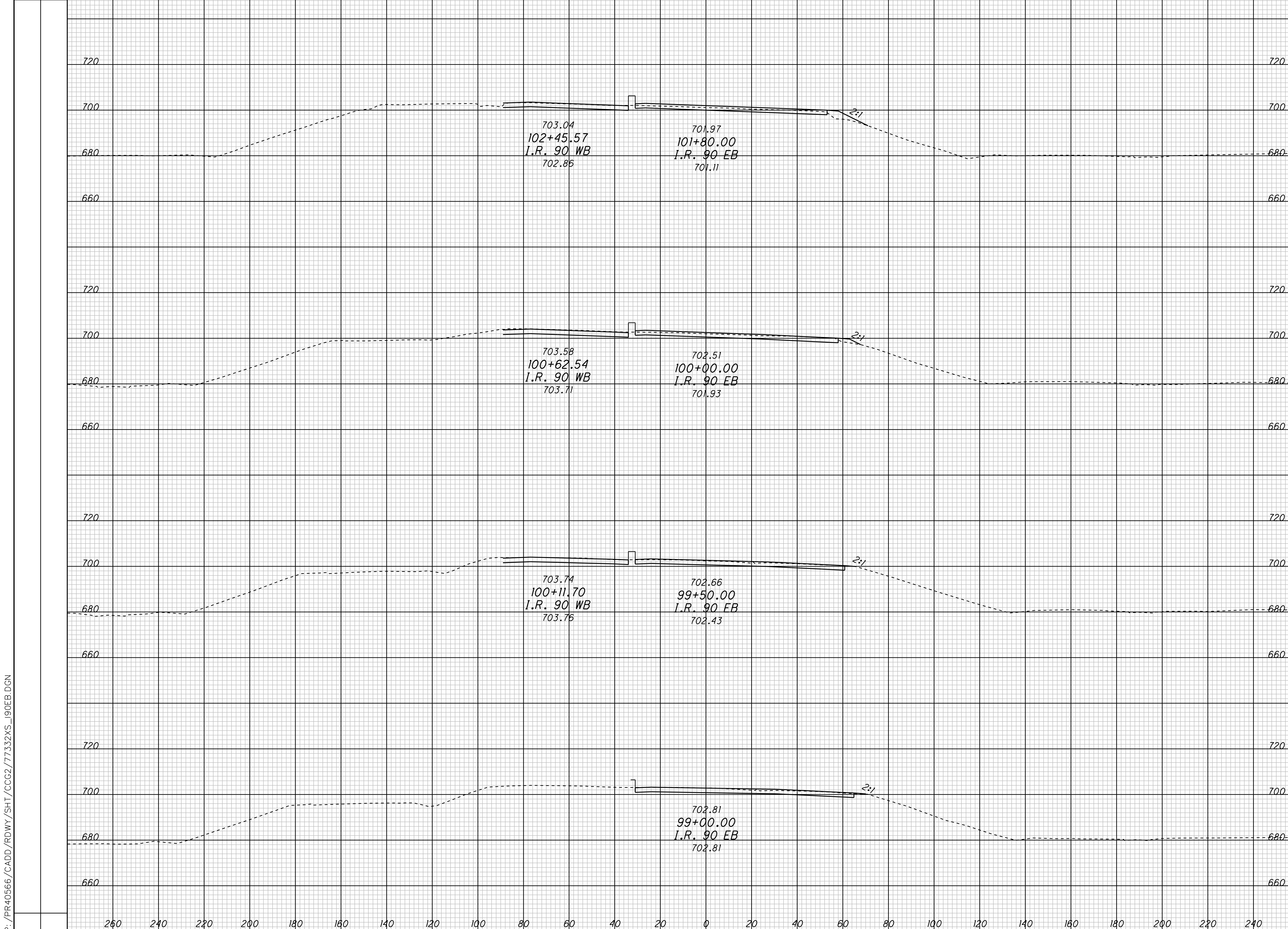
**CROSS SECTIONS - CONTRACT GROUP 2**  
**I.R. 90 EB**

**CUY-90-14.90**

1  
11

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



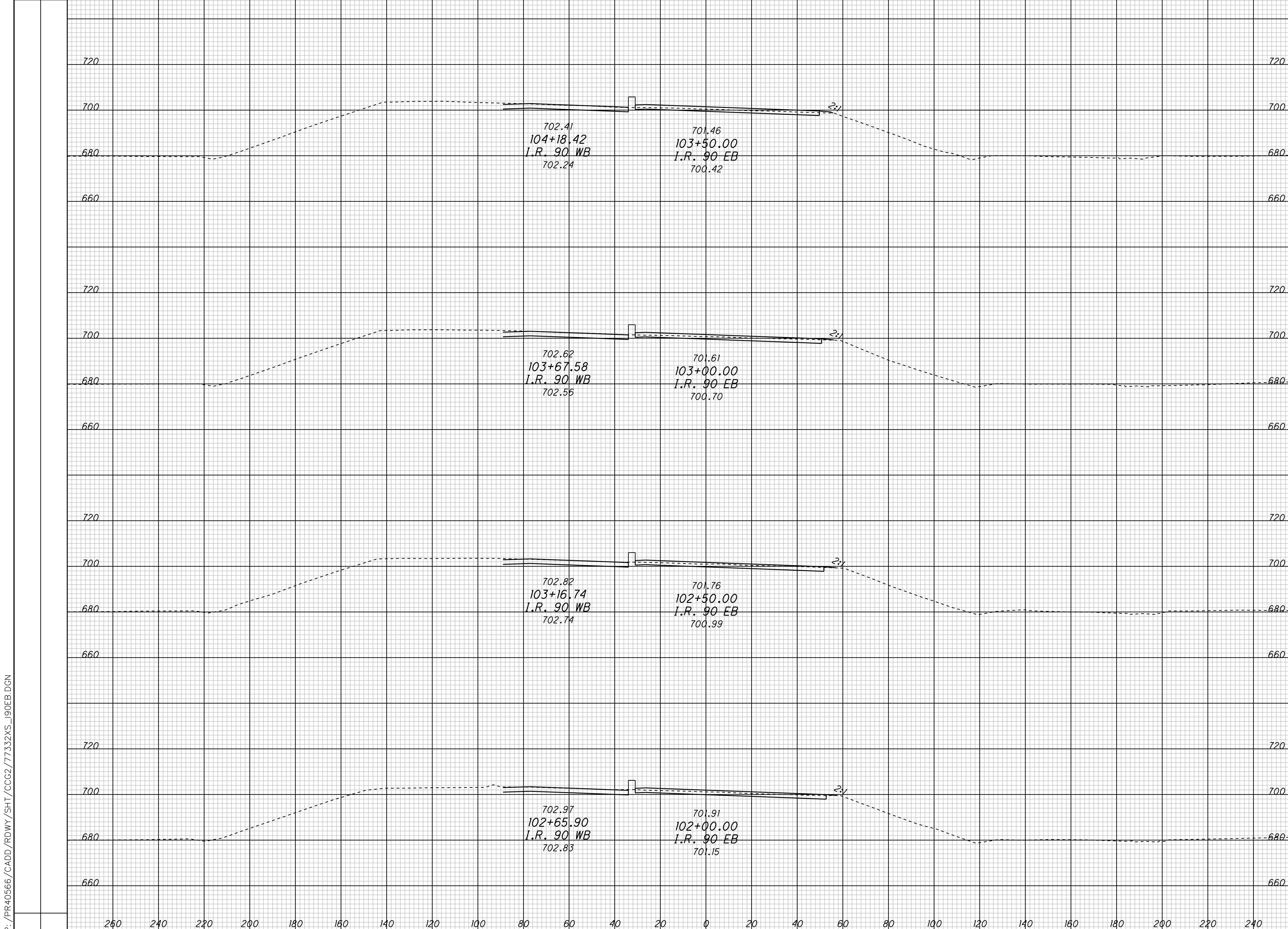
CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

CUY-90-14.90

2  
11

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

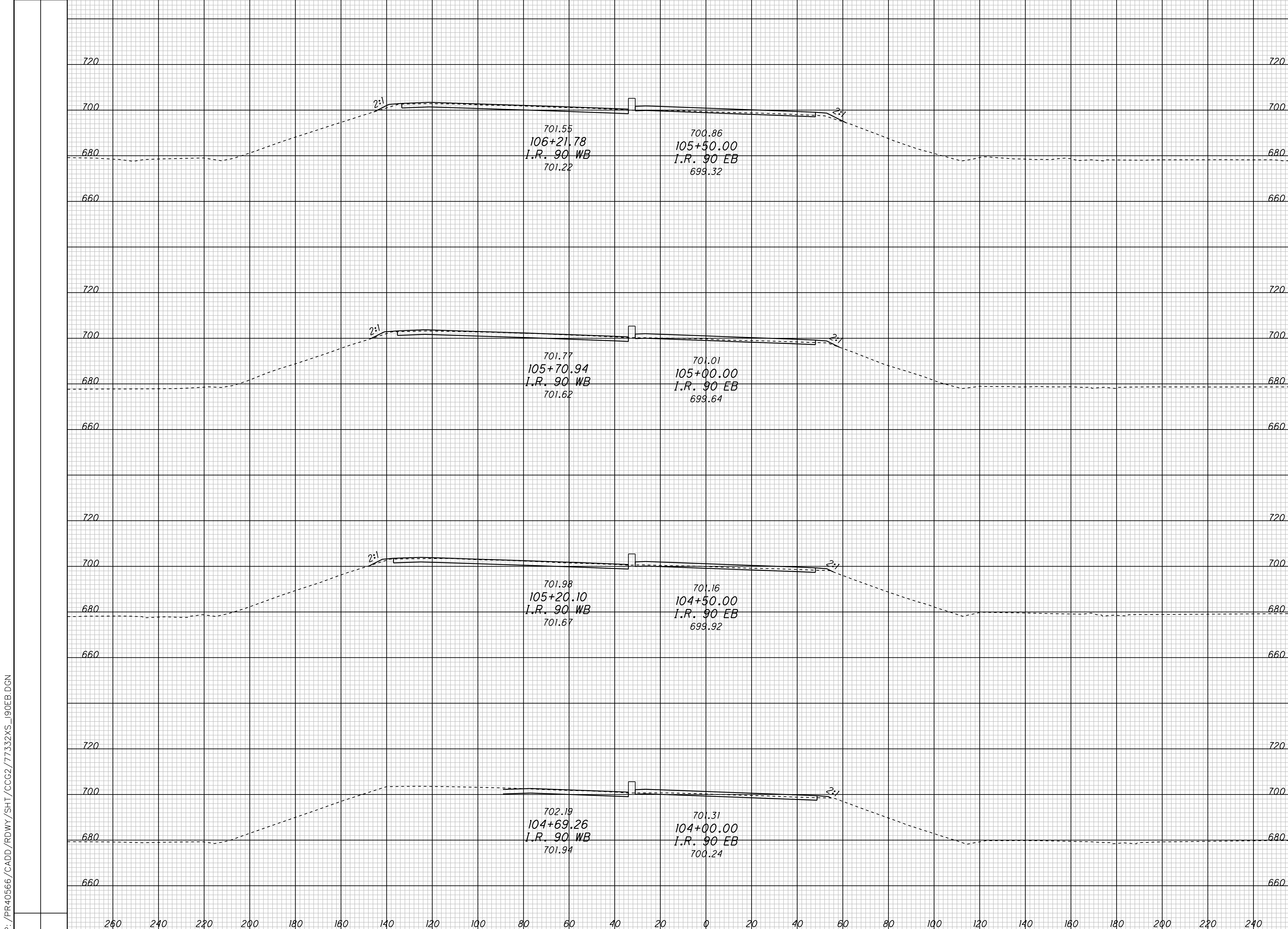
CUY-90-14.90

3  
11

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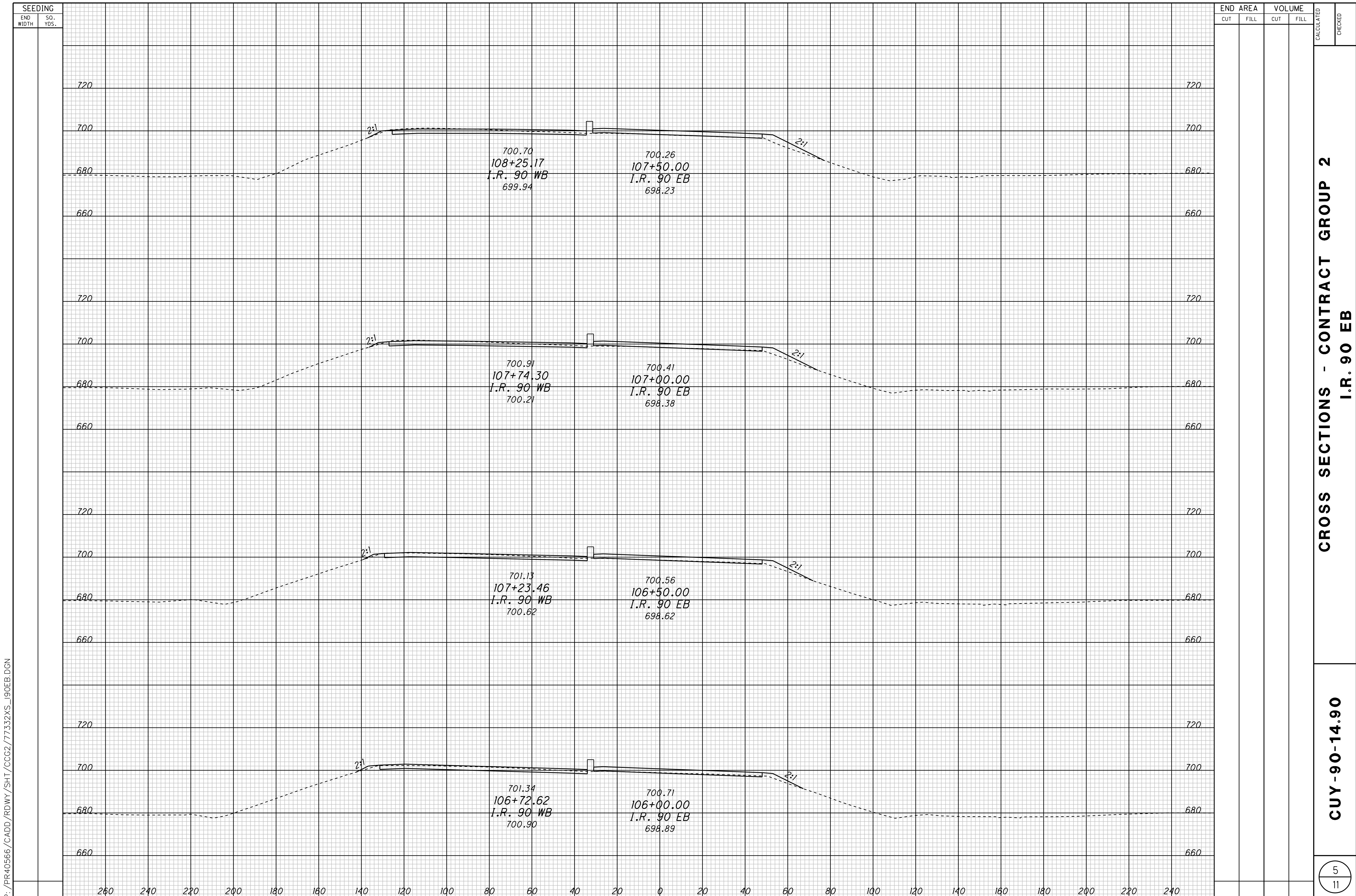
SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

CUY-90-14.90



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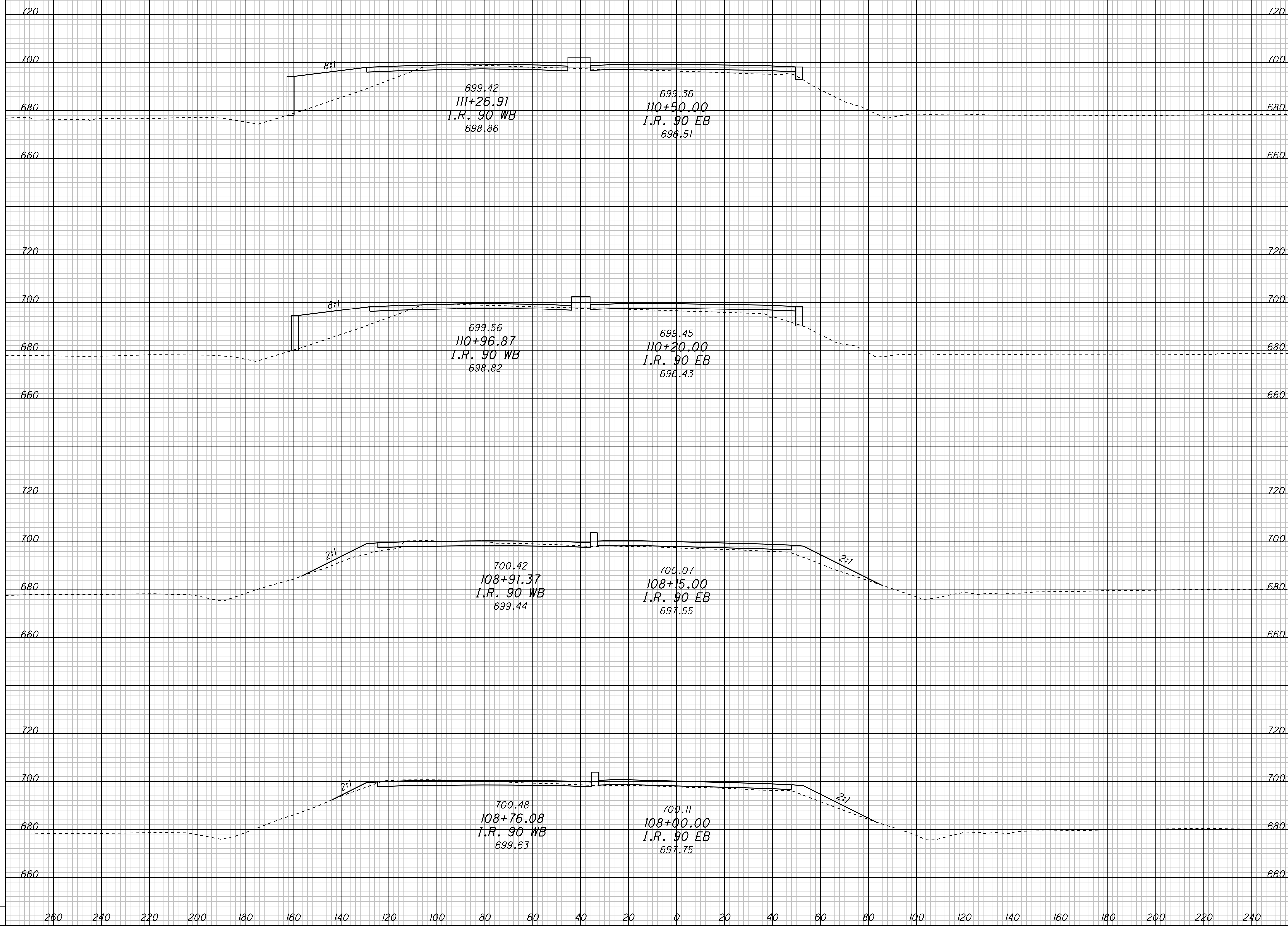
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

**CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB**

**CUY -90-14.90**

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

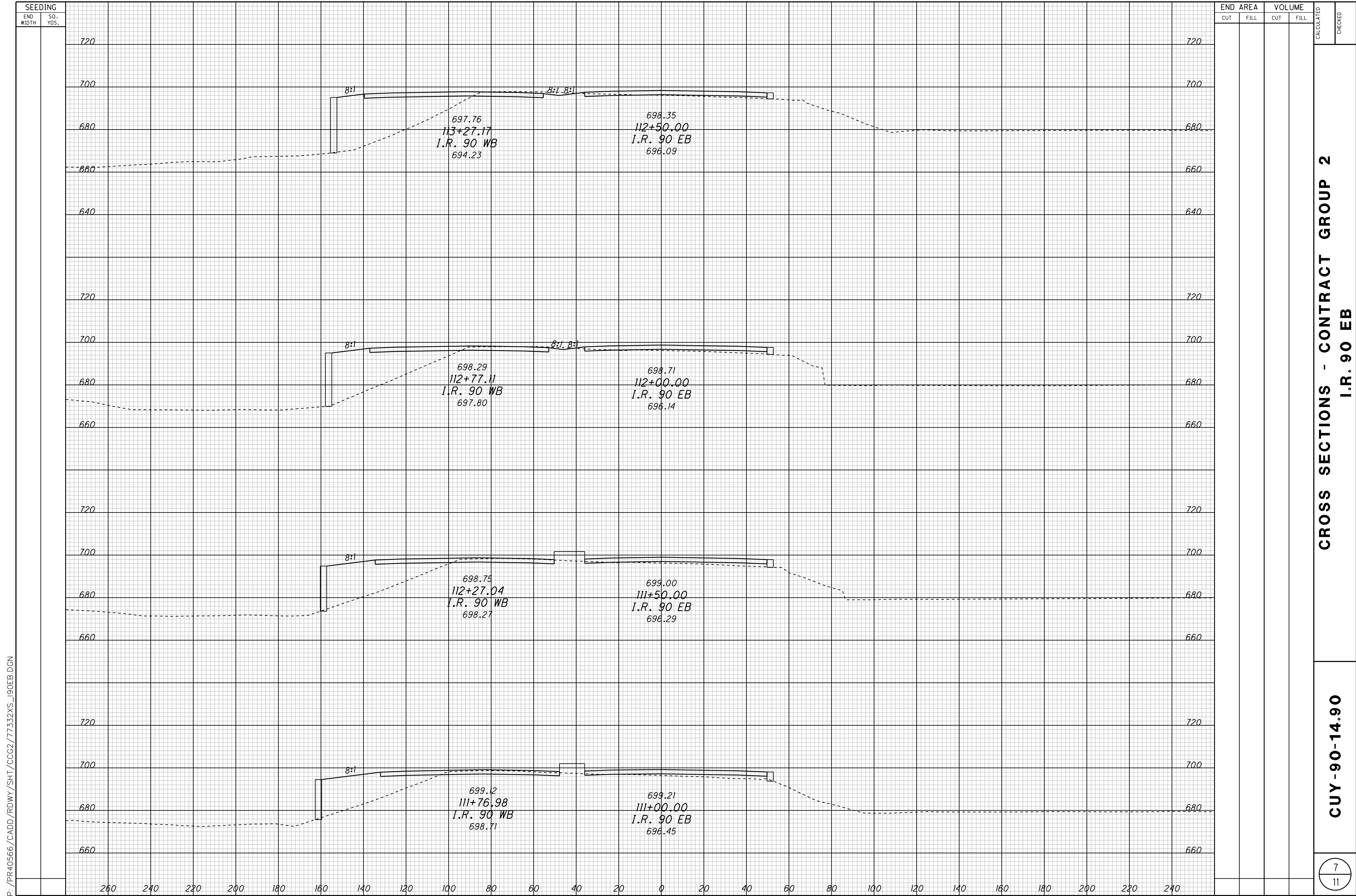


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CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

CUY-90-14.90

6  
11

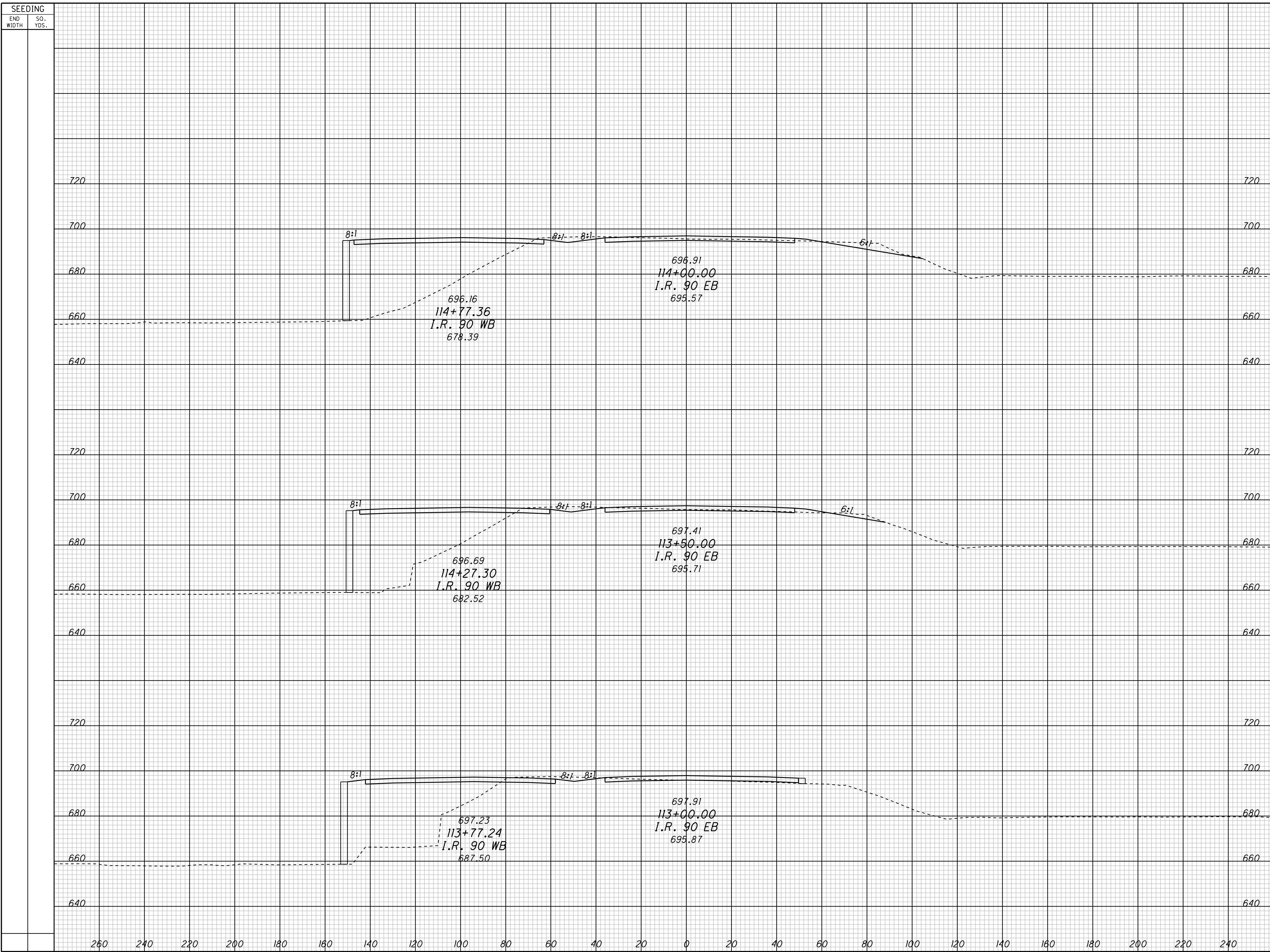


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**CROSS SECTIONS - CONTRACT GROUP 2**  
**I.R. 90 EB**

**CUY-90-14.90**

7  
11



END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		

**CROSS SECTIONS - CONTRACT GROUP 2**  
**I.R. 90 EB**

**CUY-90-14.90**

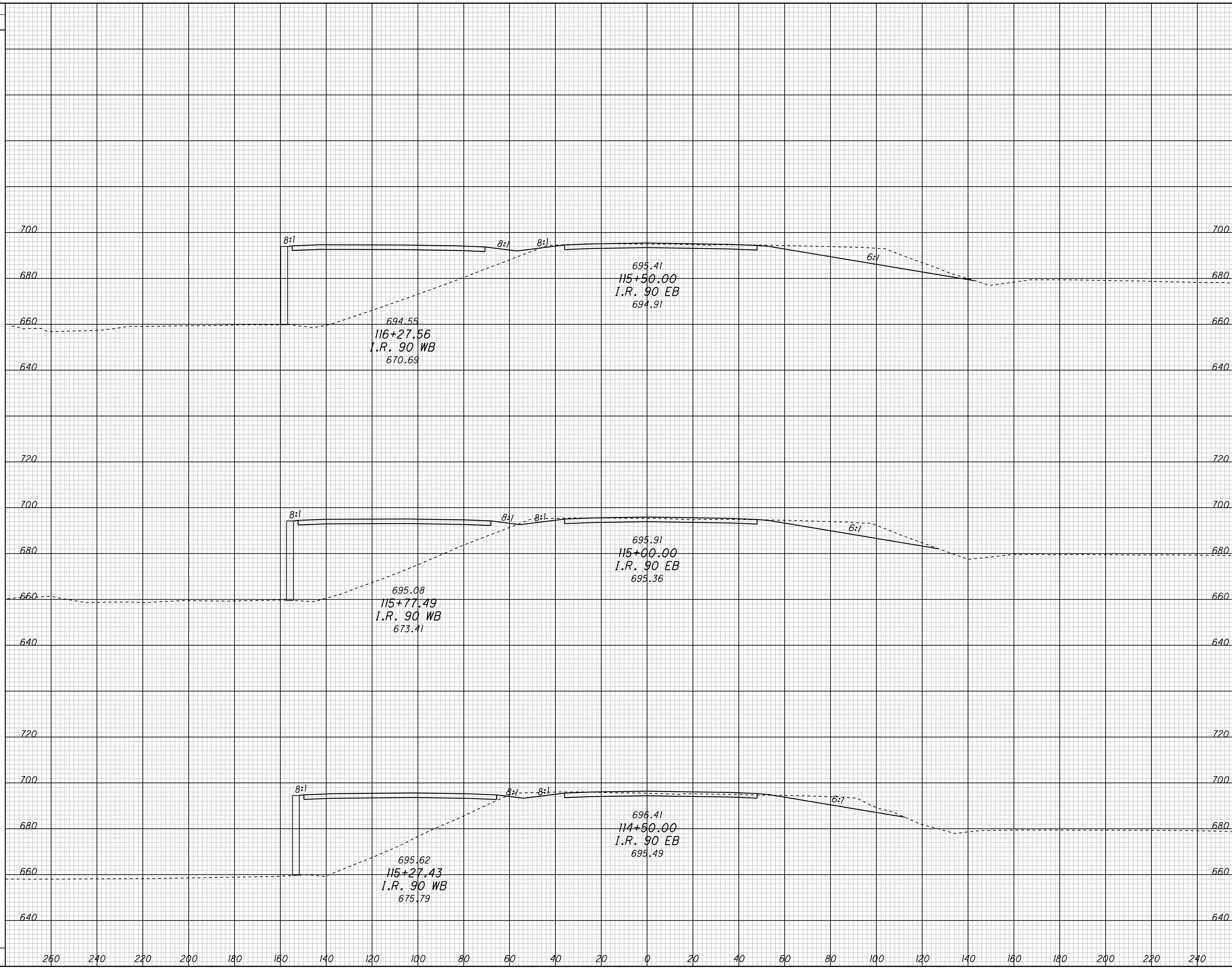
8
11



SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

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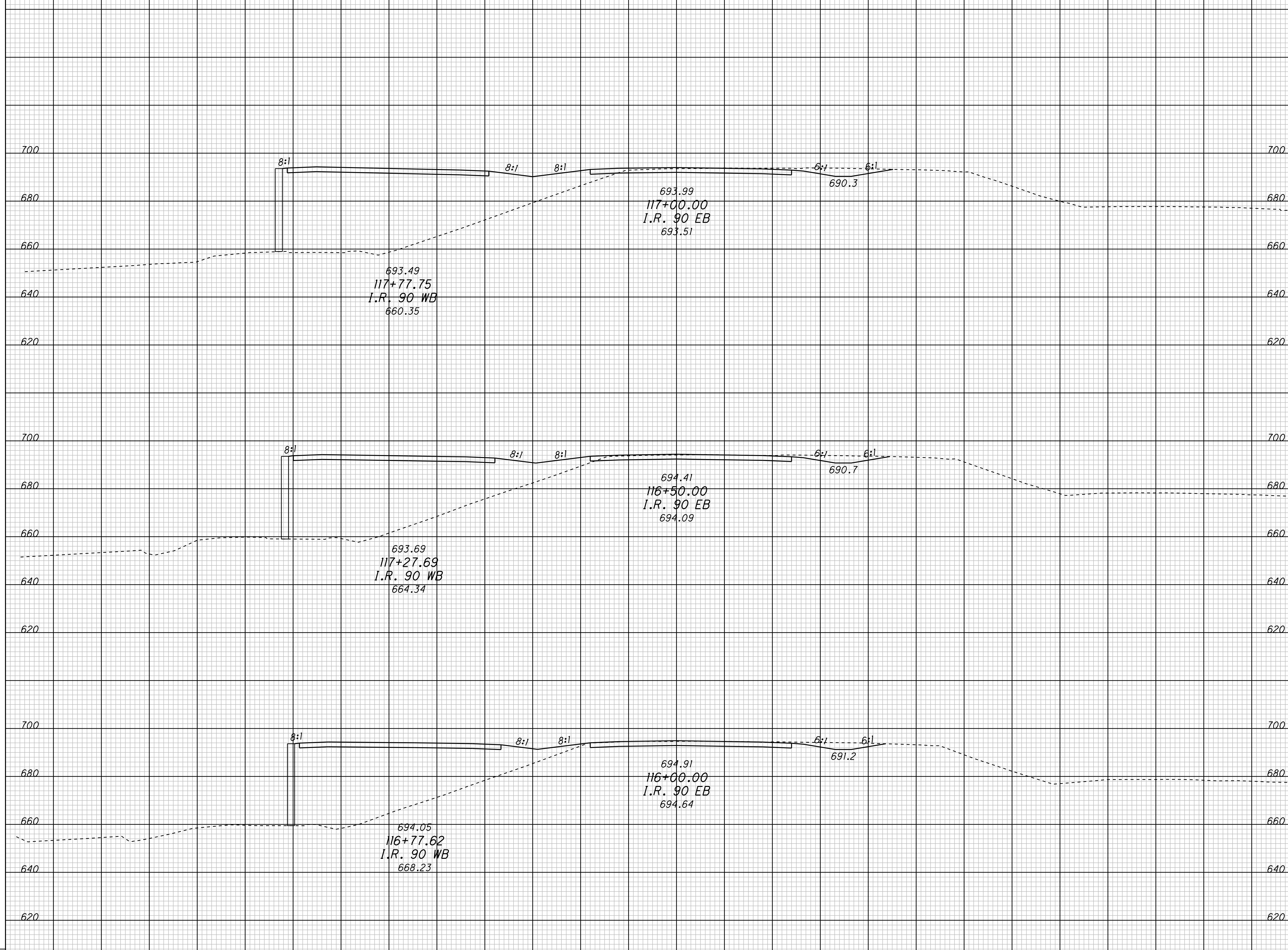
CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

CUY-90-14.90

9  
11

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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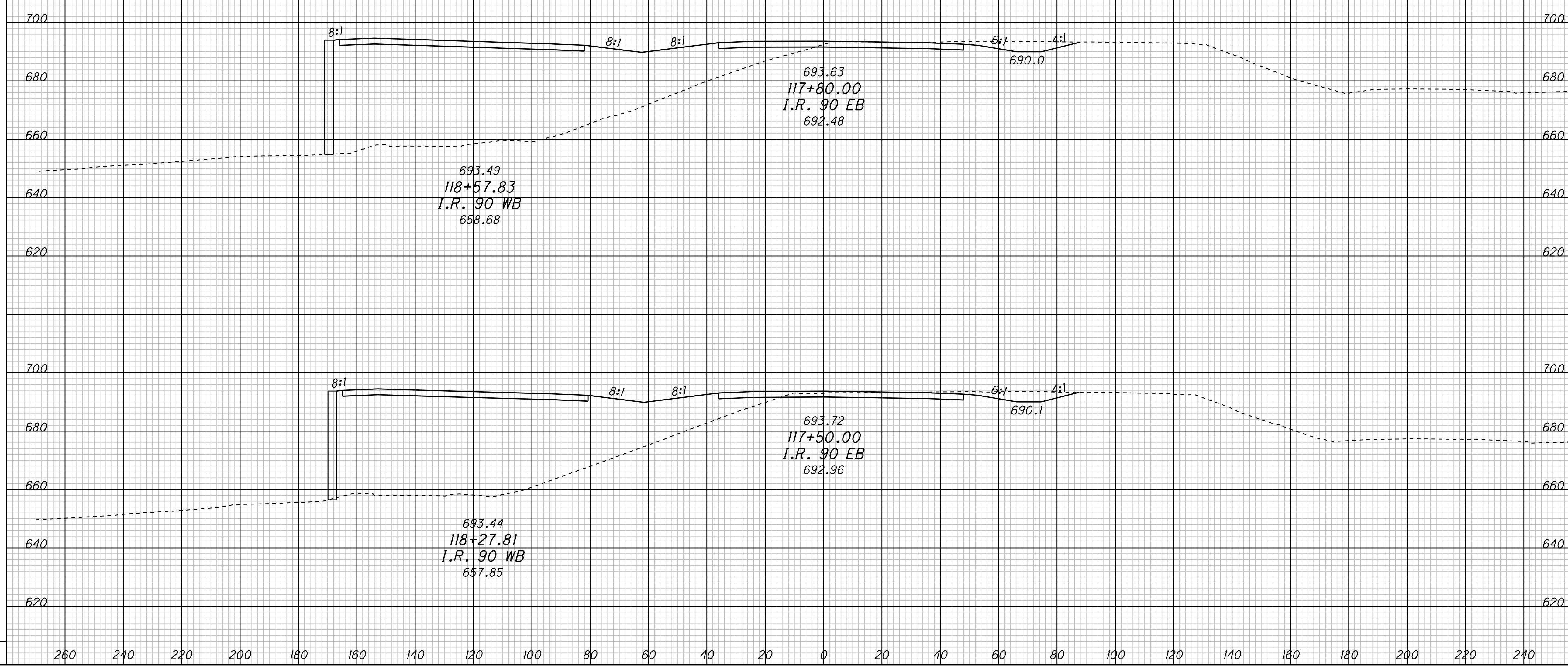
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I.R. 90 EB

CUY-90-14.90

10  
11

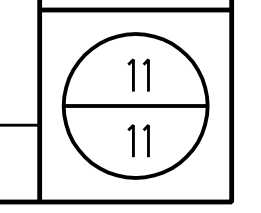
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END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

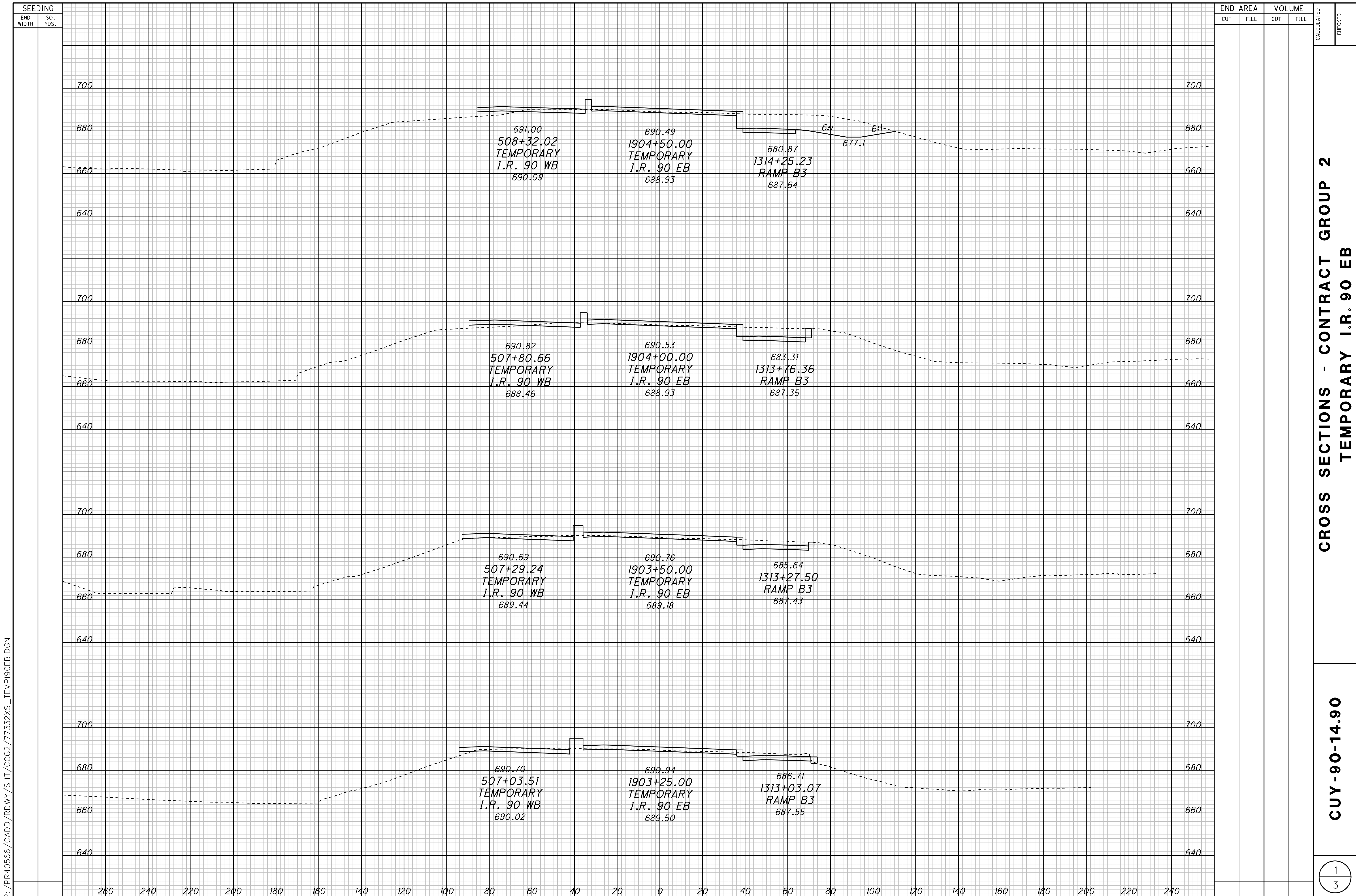


CROSS SECTIONS - CONTRACT GROUP 2  
I.R. 90 EB

CUY-90-14.90



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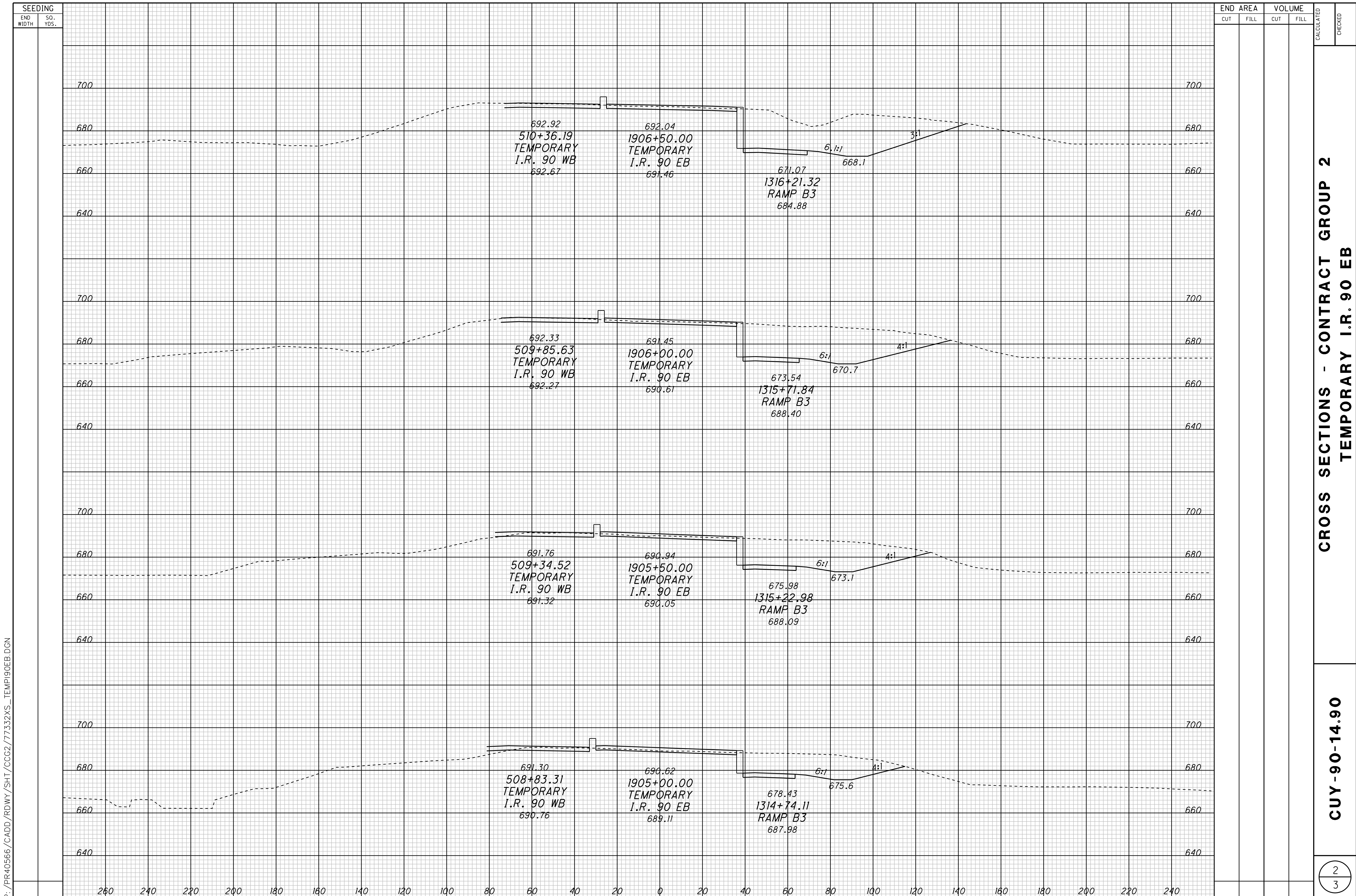


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SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS - CONTRACT GROUP 2  
TEMPORARY I.R. 90 EB

CUY-90-14.90



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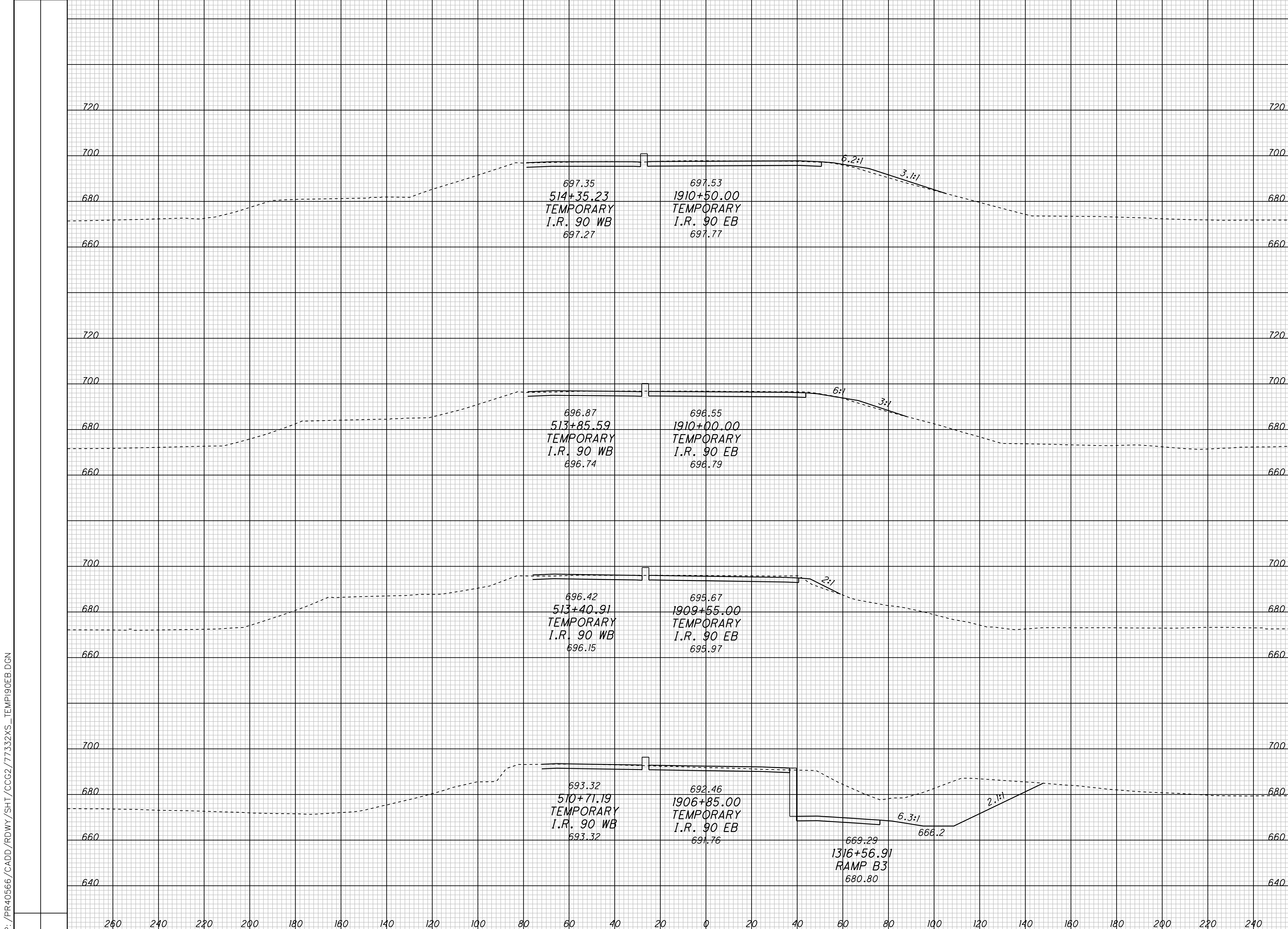
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END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS - CONTRACT GROUP 2  
TEMPORARY I.R. 90 EB

CUY-90-14.90

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

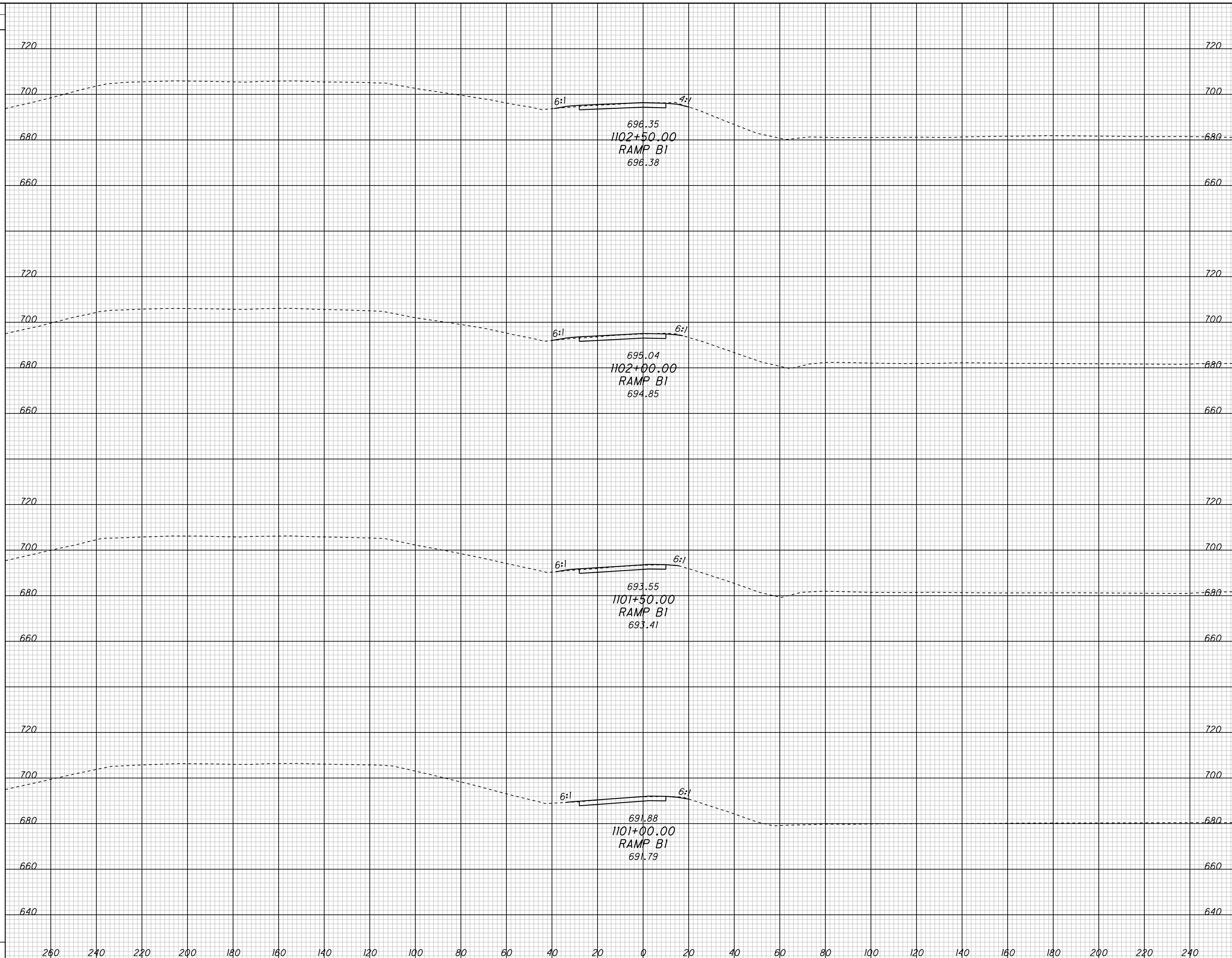


CROSS SECTIONS - CONTRACT GROUP 2  
TEMPORARY I.R. 90 EB

CUY-90-14.90

3  
3

SEEDING  
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END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

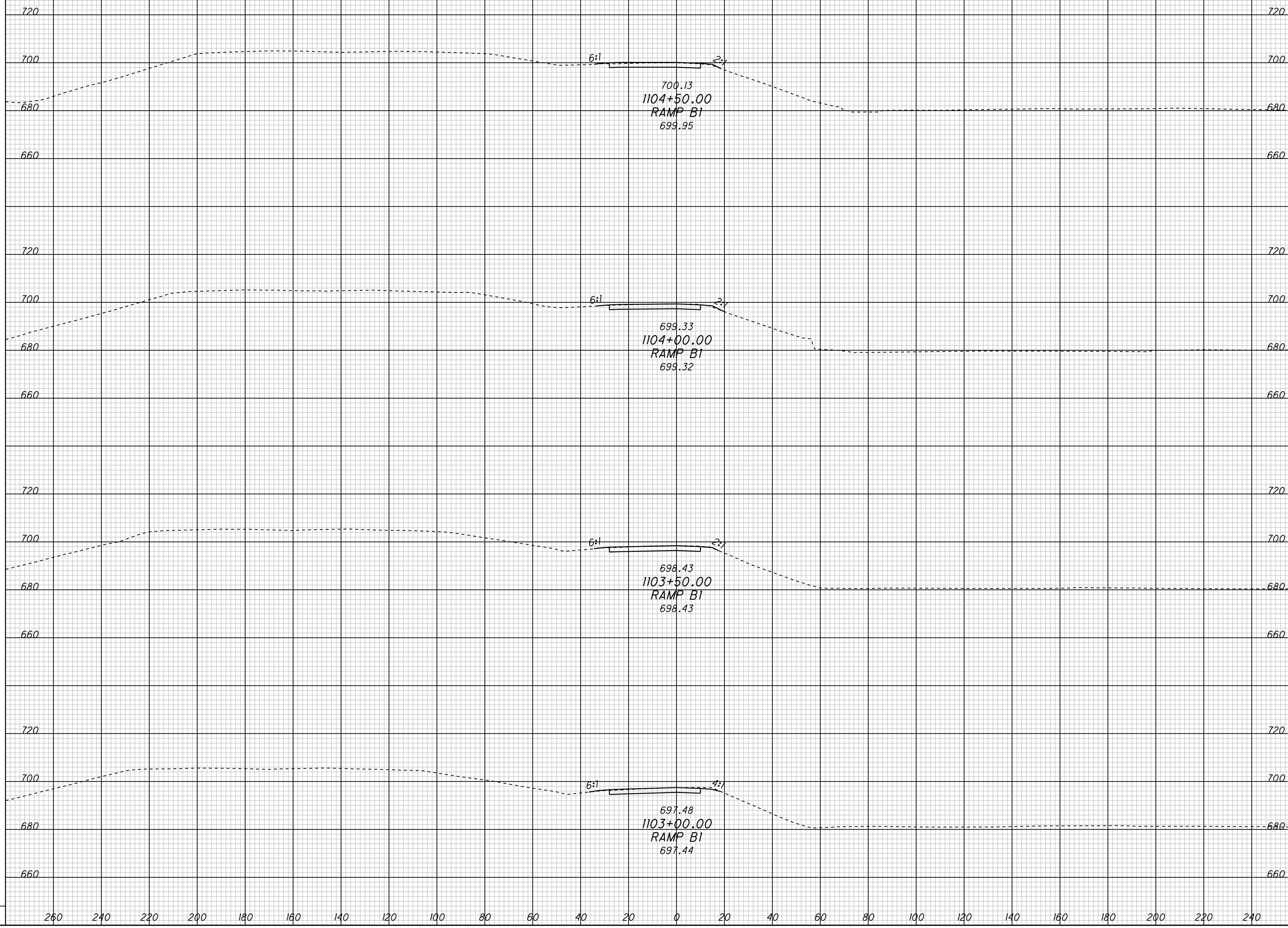
**CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B1**

**CUY-90-14.90**

1  
3

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B1

CUY-90-14.90

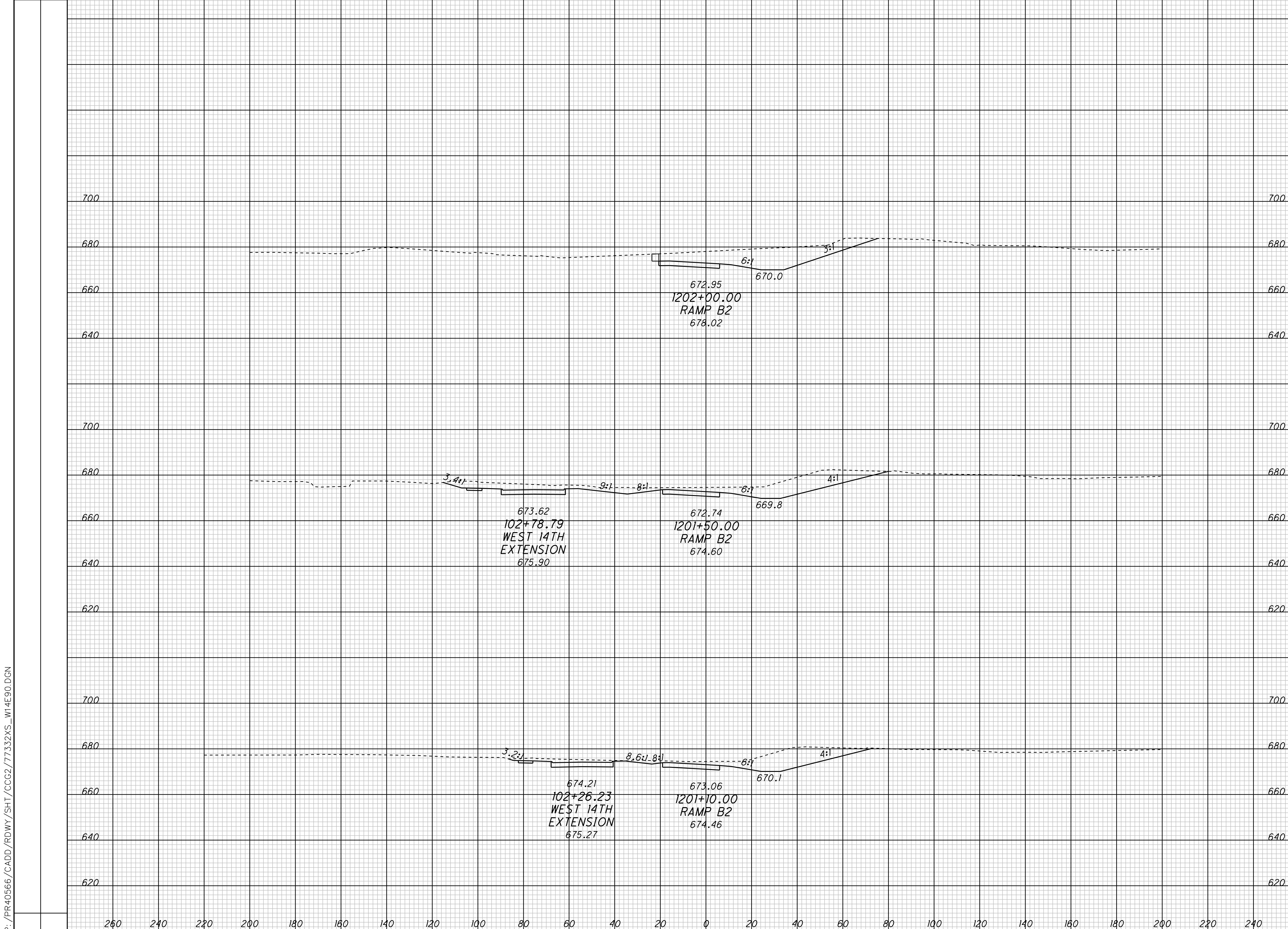
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3





SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B2

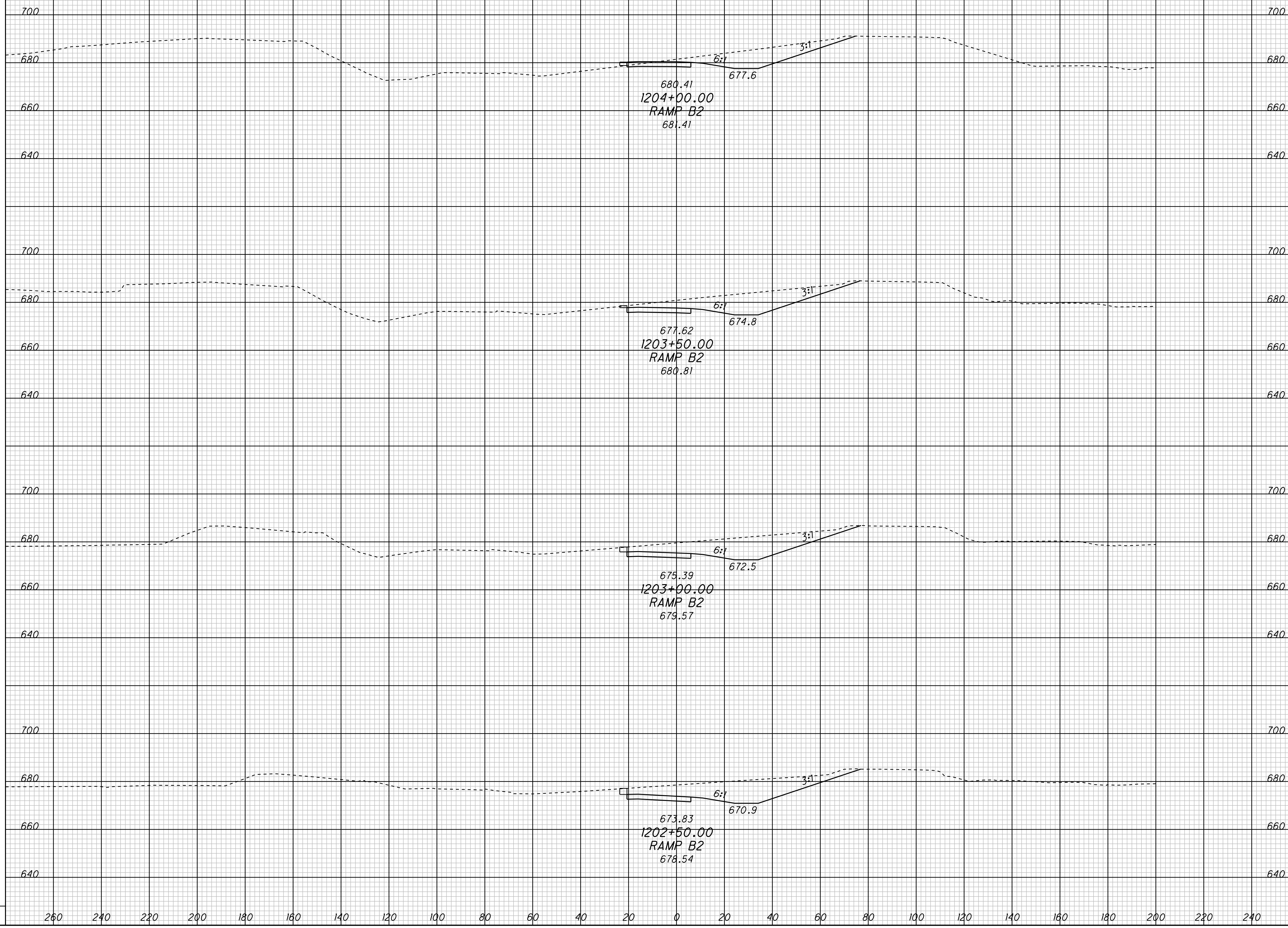
CUY-90-14.90

1  
4

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SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



680.41  
1204+00.00  
RAMP B2  
681.41  
677.6

677.62  
1203+50.00  
RAMP B2  
680.81  
674.8

675.39  
1203+00.00  
RAMP B2  
679.57  
672.5

673.83  
1202+50.00  
RAMP B2  
678.54  
670.9

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CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B2

CUY-90-14.90

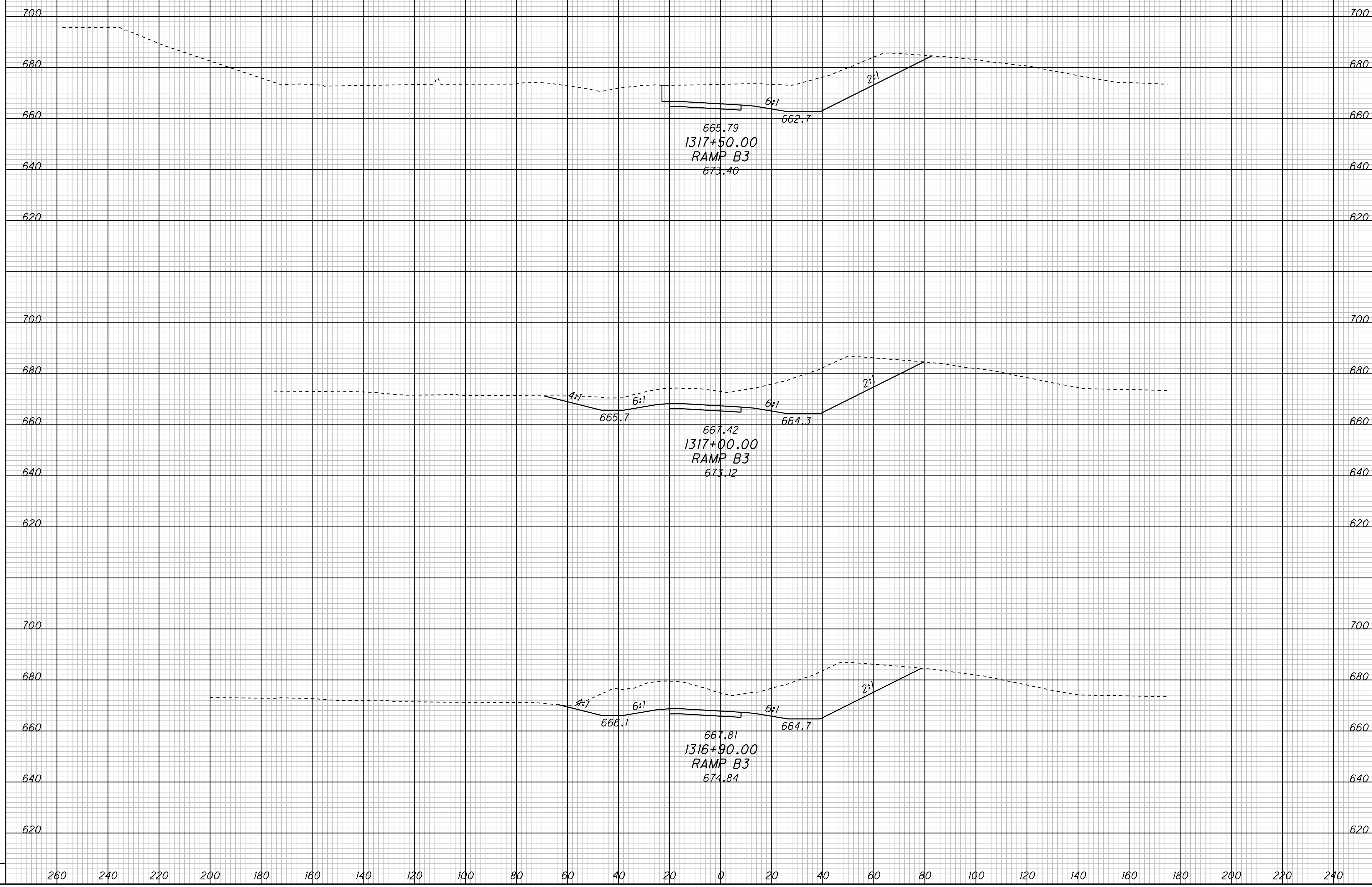
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SEEDING  
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END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



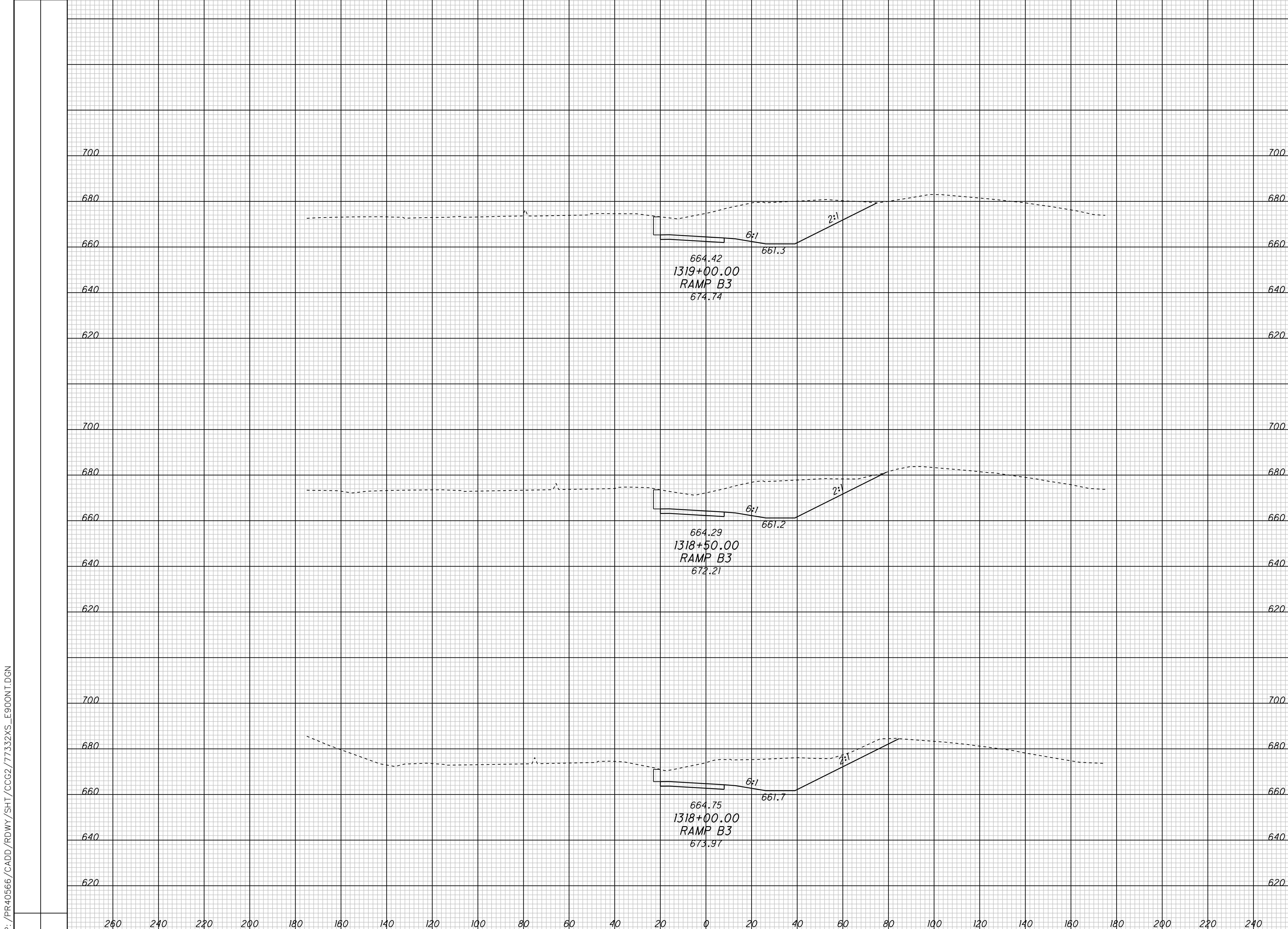
CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B3

CUY-90-14.90

1  
4

SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B3

CUY -90-14.90

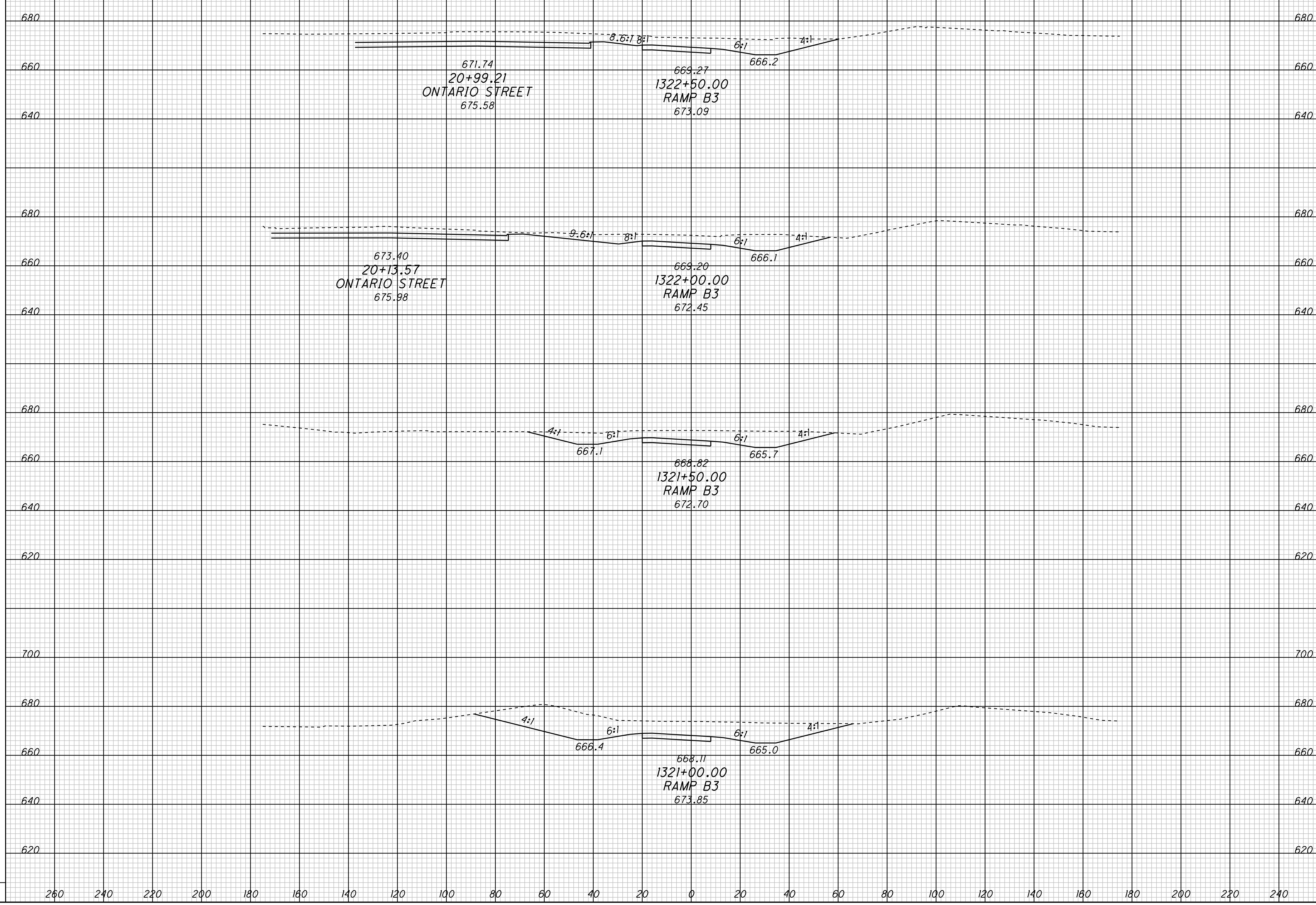
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SEEDING  
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END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
RAMP B3

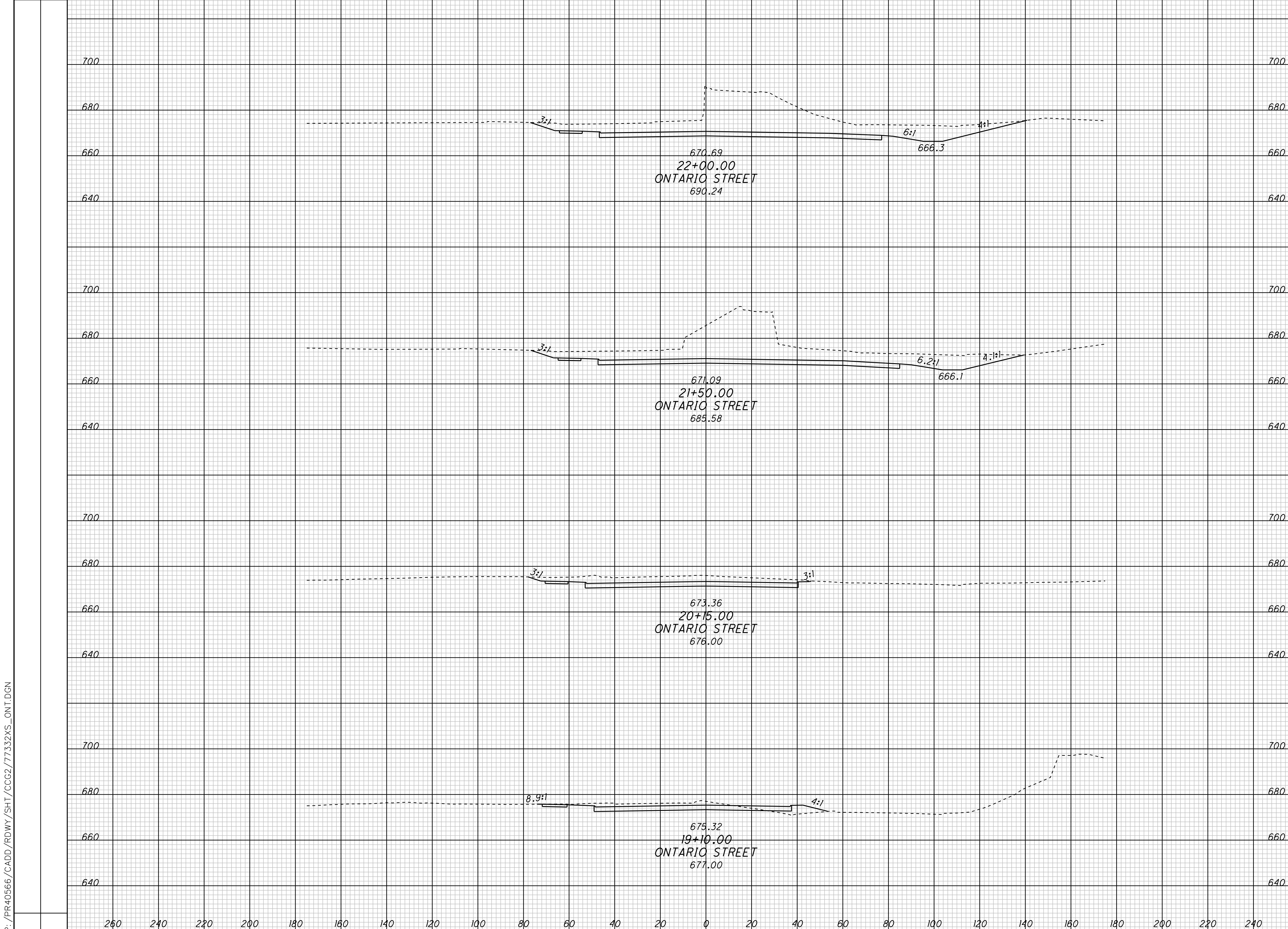
CUY -90-14.90

4  
4

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SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
ONTARIO STREET

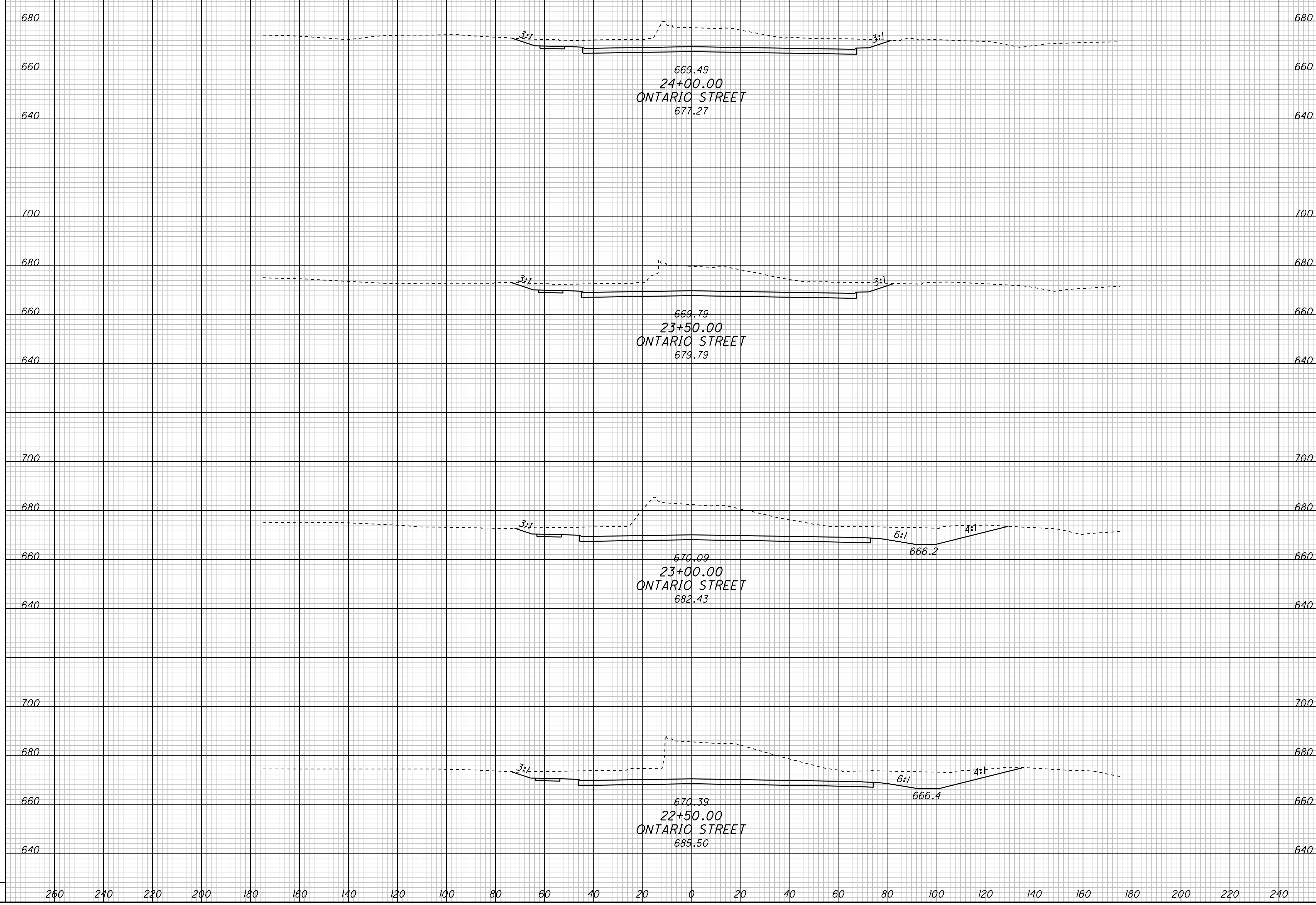
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1  
6

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SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS - CONTRACT GROUP 2  
ONTARIO STREET

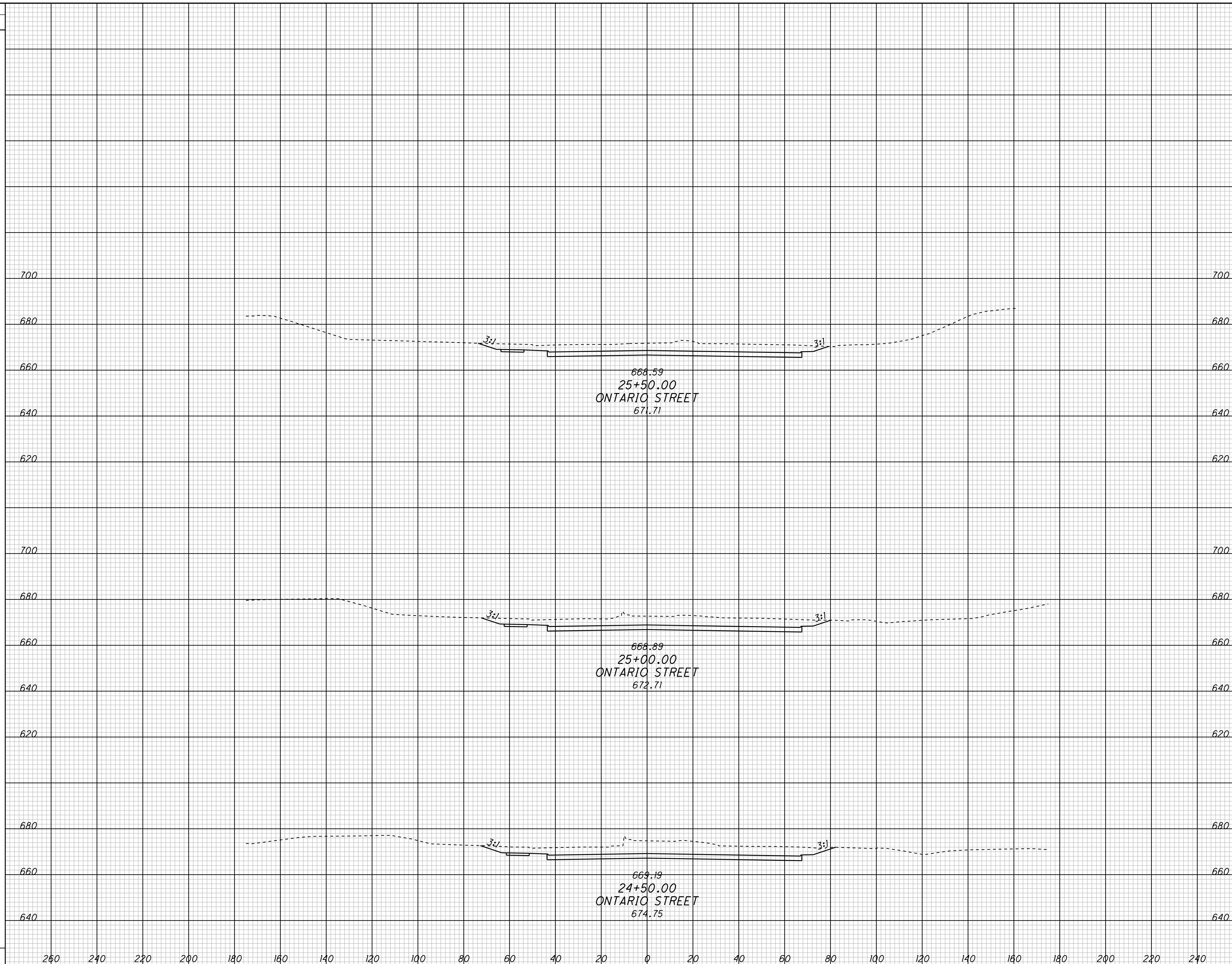
CUY -90-14.90

2  
6

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SEEDING  
END WIDTH SQ. YDS.  
P: /PR40566/CADD/RDWAY/SHT/CCG2/77332XS\_ONT.DGN

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS - CONTRACT GROUP 2  
ONTARIO STREET

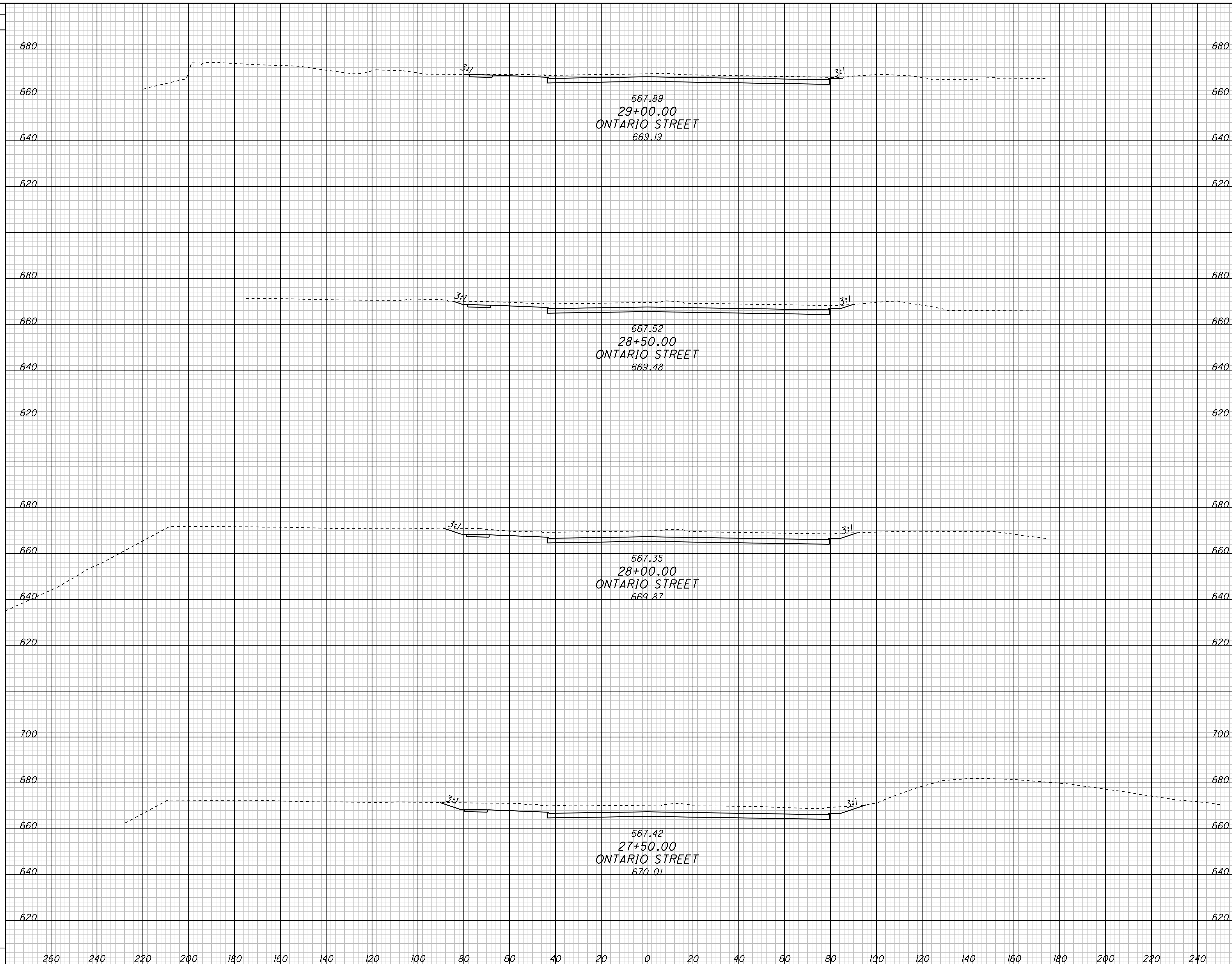
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3  
6



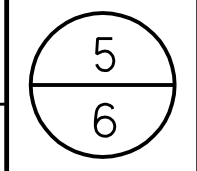
SEEDING  
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS - CONTRACT GROUP 2  
ONTARIO STREET

CUY-90-14.90

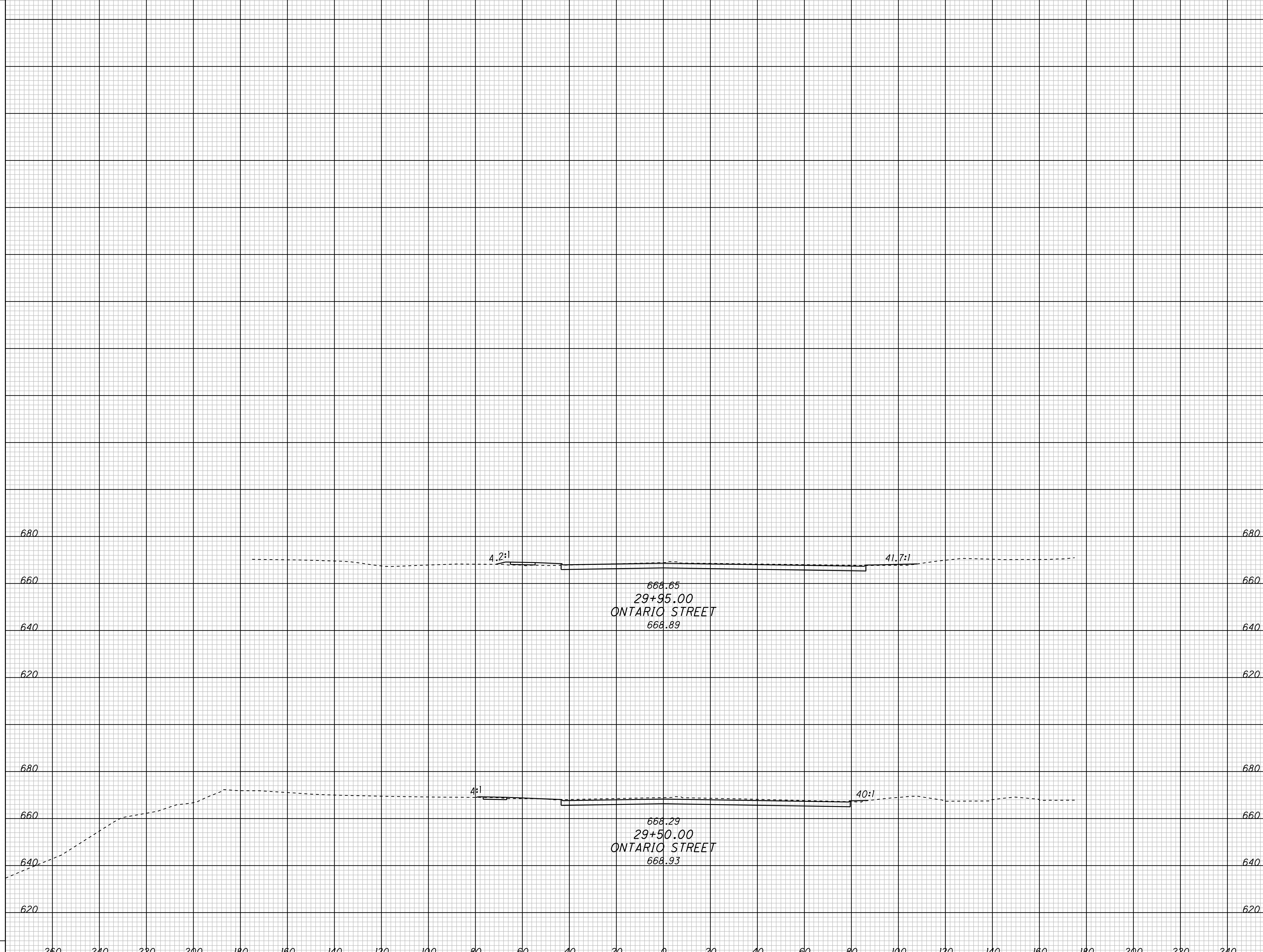


SEEDING

END WIDTH SO. YDS.

END AREA VOLUME

CUT FILL CUT FILL CALCULATED CHECKED

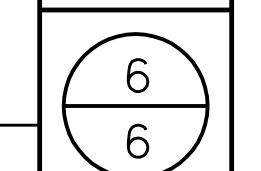


668.65  
29+95.00  
ONTARIO STREET  
668.89

668.29  
29+50.00  
ONTARIO STREET  
668.93

CROSS SECTIONS - CONTRACT GROUP 2  
ONTARIO STREET

CUY -90 -14.90



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