

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
SCI-823-6.81
MADISON & HARRISON TOWNSHIPS
SCIOTO COUNTY
PART 1 - EARTHWORK

STAGE 3 SUBMISSION
CROSS SECTIONS
SHEETS 119-399

USER: BJSERS PLOT DATE: 8/24/25 REVISION DATE: 8/24/25 MODEL: BMODELNAME
FILE: ...CLIENT\PROJECTS\... /P/FILES

PLAN PREPARED BY:



HDR ENGINEERING, INC.
9987 CARVER RD, SUITE 200
CINCINNATI, OHIO 45242
513-984-7500



SCI-823-6.81

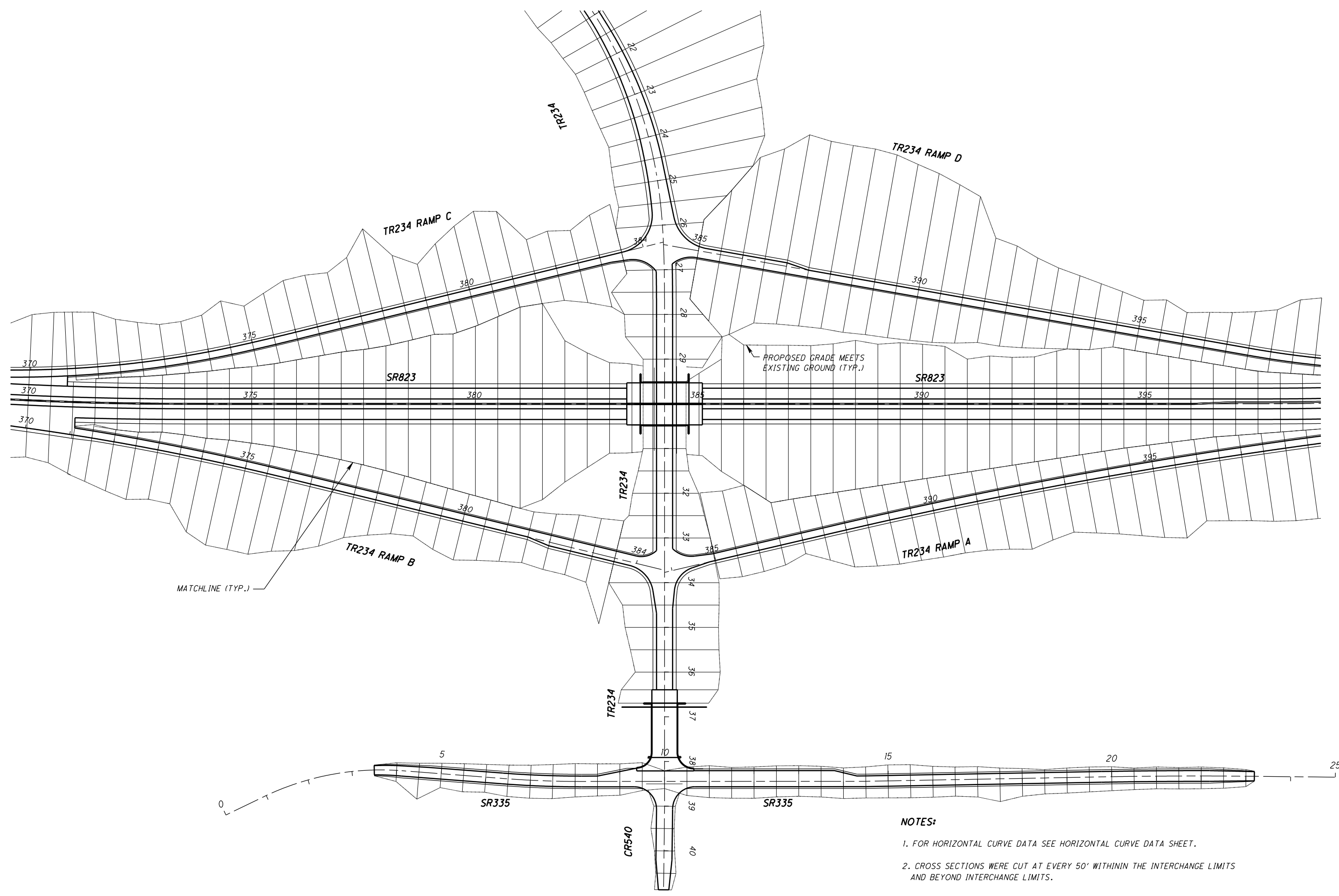
RAILROAD INVOLVEMENT
CSXT

CONSTRUCTION PROJECT NO.

PID NO.
19415


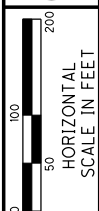
FEDERAL PROJECT NO.

USER: C:\wsh\br; PLOT DATE: 9/16/2011 12:20:19 PM REVISION DATE: 9/15/2011
 FILE: ...HDR.C:\R00000000045878 7/19/15x1001.dwg MODEL: Sheet



NOTES:

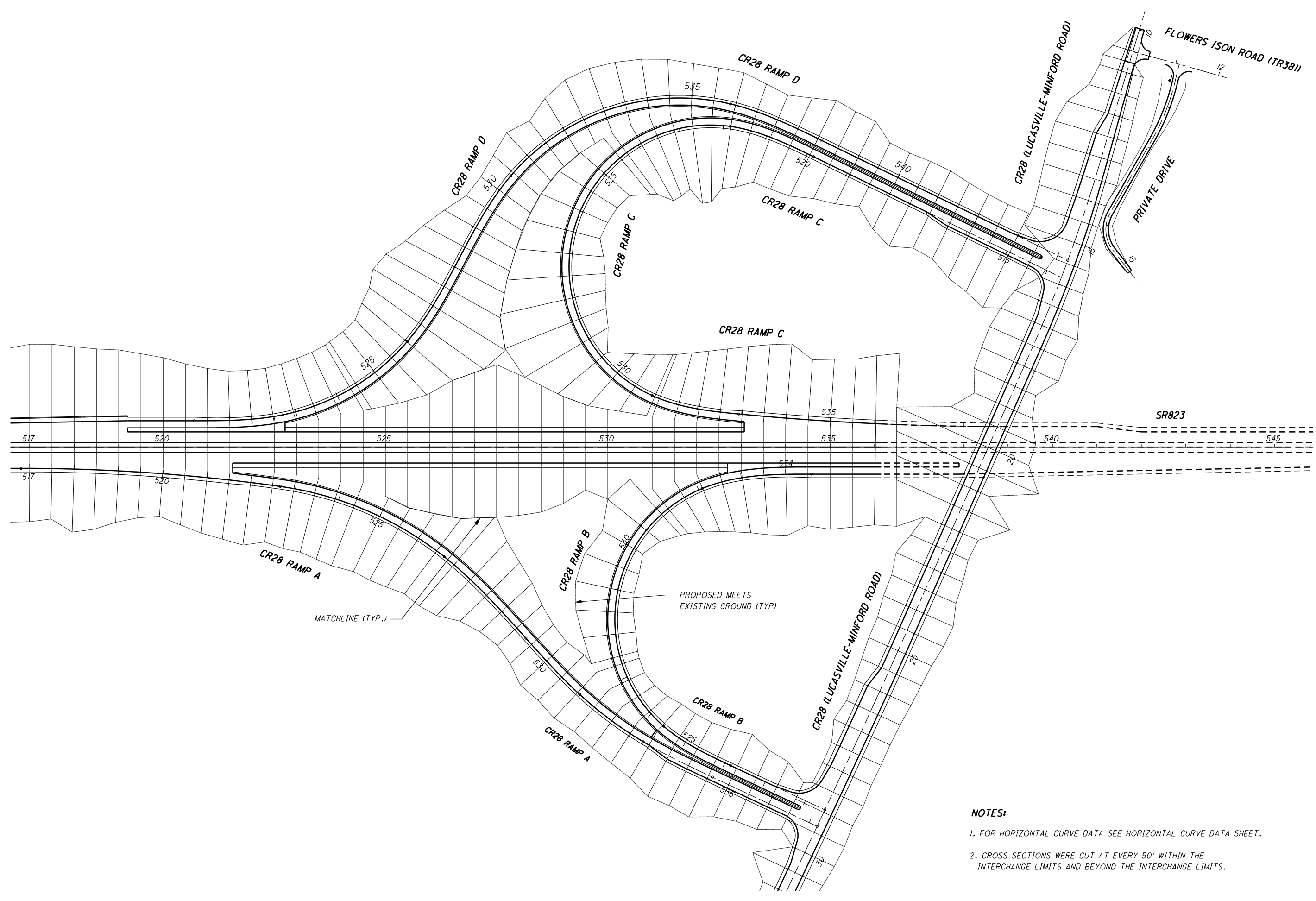
1. FOR HORIZONTAL CURVE DATA SEE HORIZONTAL CURVE DATA SHEET.
2. CROSS SECTIONS WERE CUT AT EVERY 50' WITHIN THE INTERCHANGE LIMITS AND BEYOND INTERCHANGE LIMITS.




 HORIZONTAL SCALE IN FEET
 CALCULATED LBD CHECKED JMB

**CROSS SECTION LAYOUT
 SR823 AND TR234 INTERCHANGE**

SCI-823-6.81

USER: C:\wsh\br; PLOT DATE: 9/16/2011 12:20:50 PM REVISION DATE: 9/15/2011
 FILE: ...HDR CL\B00000000045878 7/19/15x1102.dgn MODEL: Sheet




 0 50 100 200
 HORIZONTAL SCALE IN FEET
 CALCULATED LBD CHECKED JMB

**CROSS SECTIONAL LAYOUT
 SR823 AND CR28 INTERCHANGE**

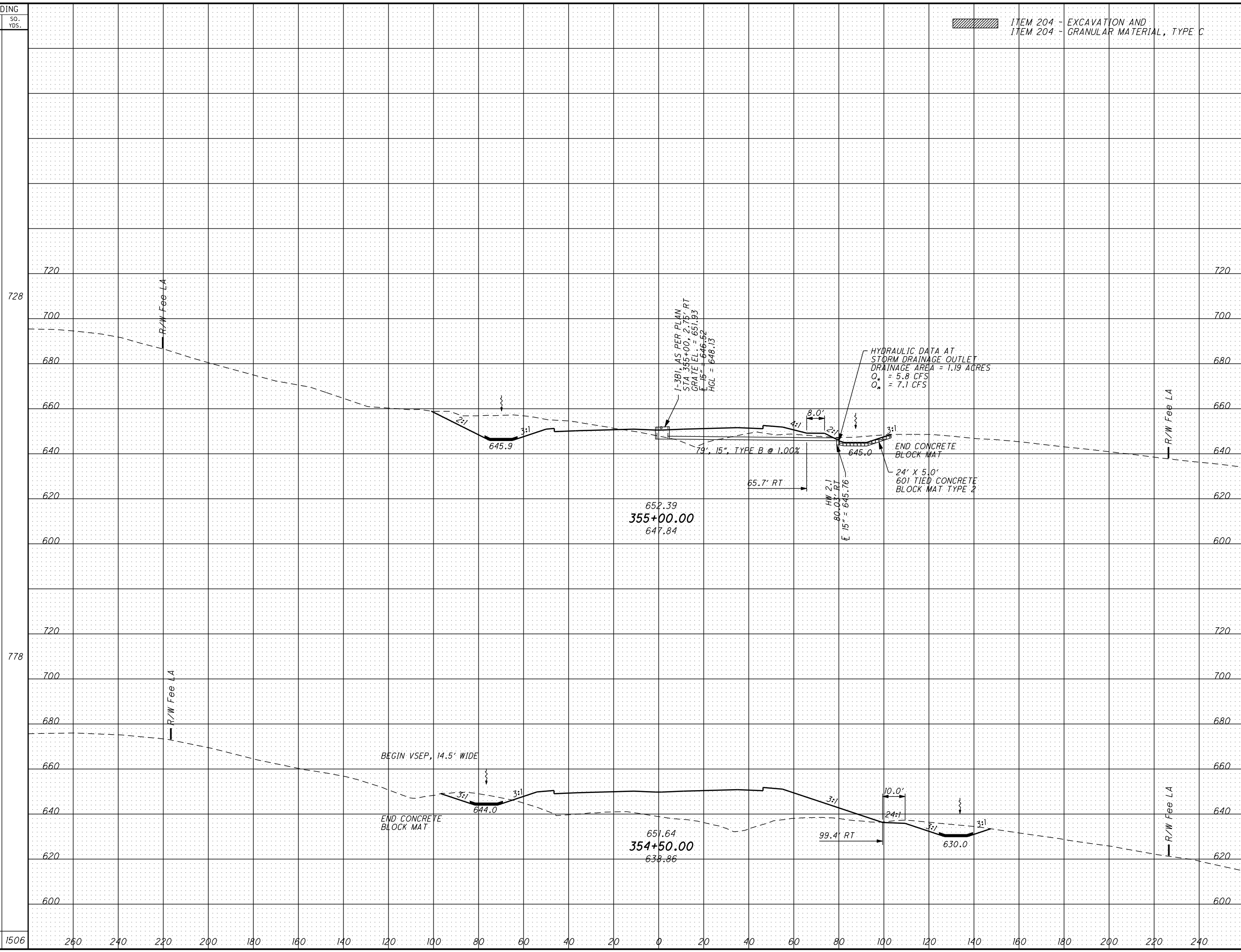
SCI-823-6.81

120
 535

- NOTES:**
1. FOR HORIZONTAL CURVE DATA SEE HORIZONTAL CURVE DATA SHEET.
 2. CROSS SECTIONS WERE CUT AT EVERY 50' WITHIN THE INTERCHANGE LIMITS AND BEYOND THE INTERCHANGE LIMITS.

USER: C:\pwh\p\... PLOT DATE: 9/16/2011 REVISION DATE: 9/15/2011
 FILE: ..._HDR.C:\pwh\p\... MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
1506	
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
513	295	707	1775
250	1623	593	5708
		1300	7483

CALCULATED
 BD/KAG
 CHECKED
 JMB

CROSS SECTIONS - SR823
STA. 354+50.00 TO STA. 355+00.00

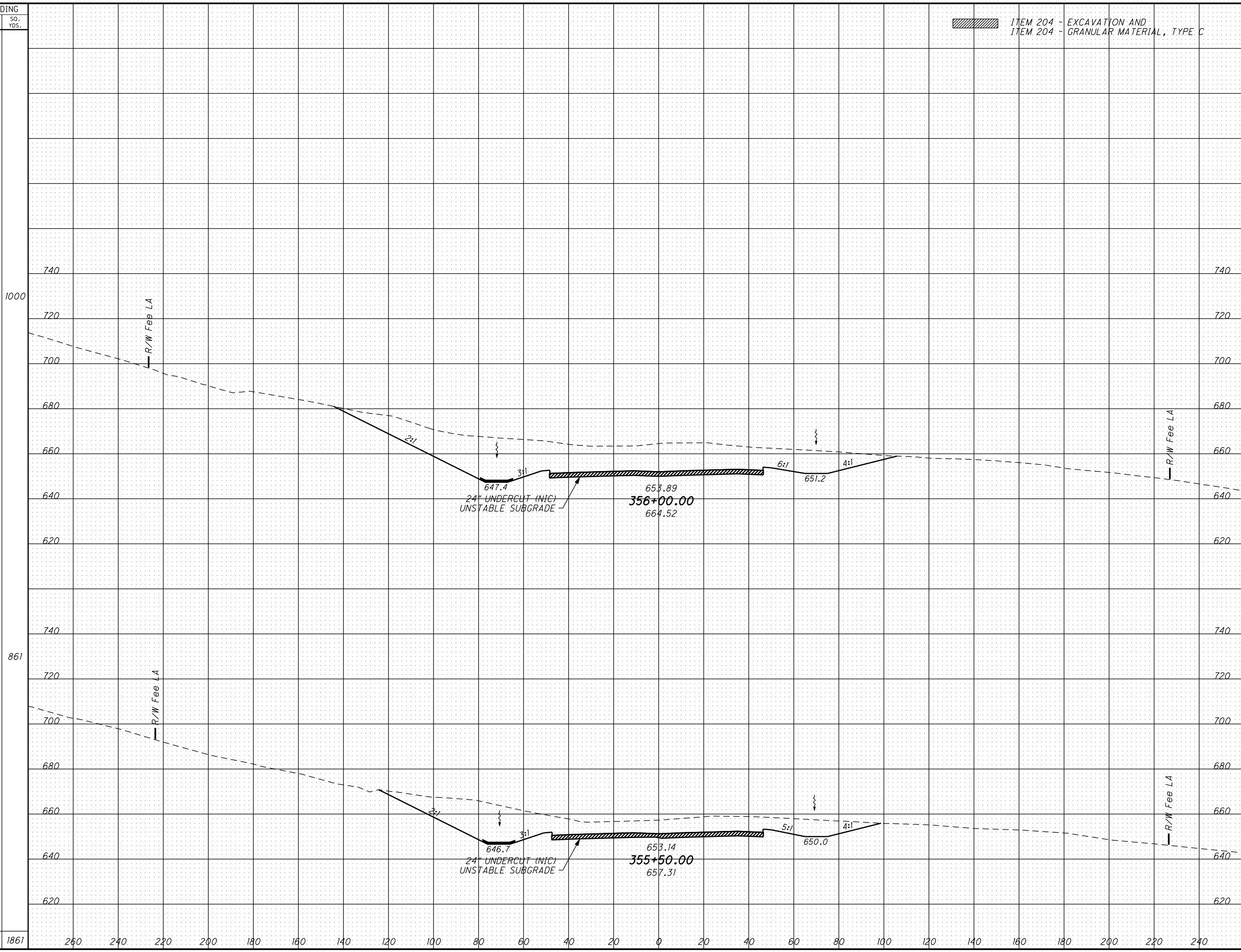
SCI-823-6.81

123
 535

USER: C:\p1\h1\p1\ PLOT DATE: 9/15/2011 2:53:40 PM REVISION DATE: 9/15/2011
 FILE: C:\p1\h1\p1\HDR\C:\p1\h1\p1\00000045878 /1945x500.dgn MODEL: Sheet

SEEDING	END WIDTH	SQ. YDS.	END AREA		VOLUME	
			CUT	FILL	CUT	FILL
			2678	0	4044	0
			1689	0	2039	273
	1861		6083	273		

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C



CROSS SECTIONS - SR823
 STA. 355+50.00 TO STA. 356+00.00

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CALCULATED
BD/KAG
CHECKED
JMB

USER: C:\p1\hbr; PLOT DATE: 9/15/2011 2:54:09 PM REVISION DATE: 9/15/2011
 FILE: \\hbr\c\p1\hbr\000000045878 /1915x500.dgn MODEL: Sheet

SEEDING	END WIDTH	SQ. YDS.	END AREA		VOLUME	
			CUT	FILL	CUT	FILL
			4594	0	8162	0
			4221	0	6388	0
	2111		14550	0		

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C



CROSS SECTIONS - SR823
 STA. 356+50.00 TO STA. 357+00.00

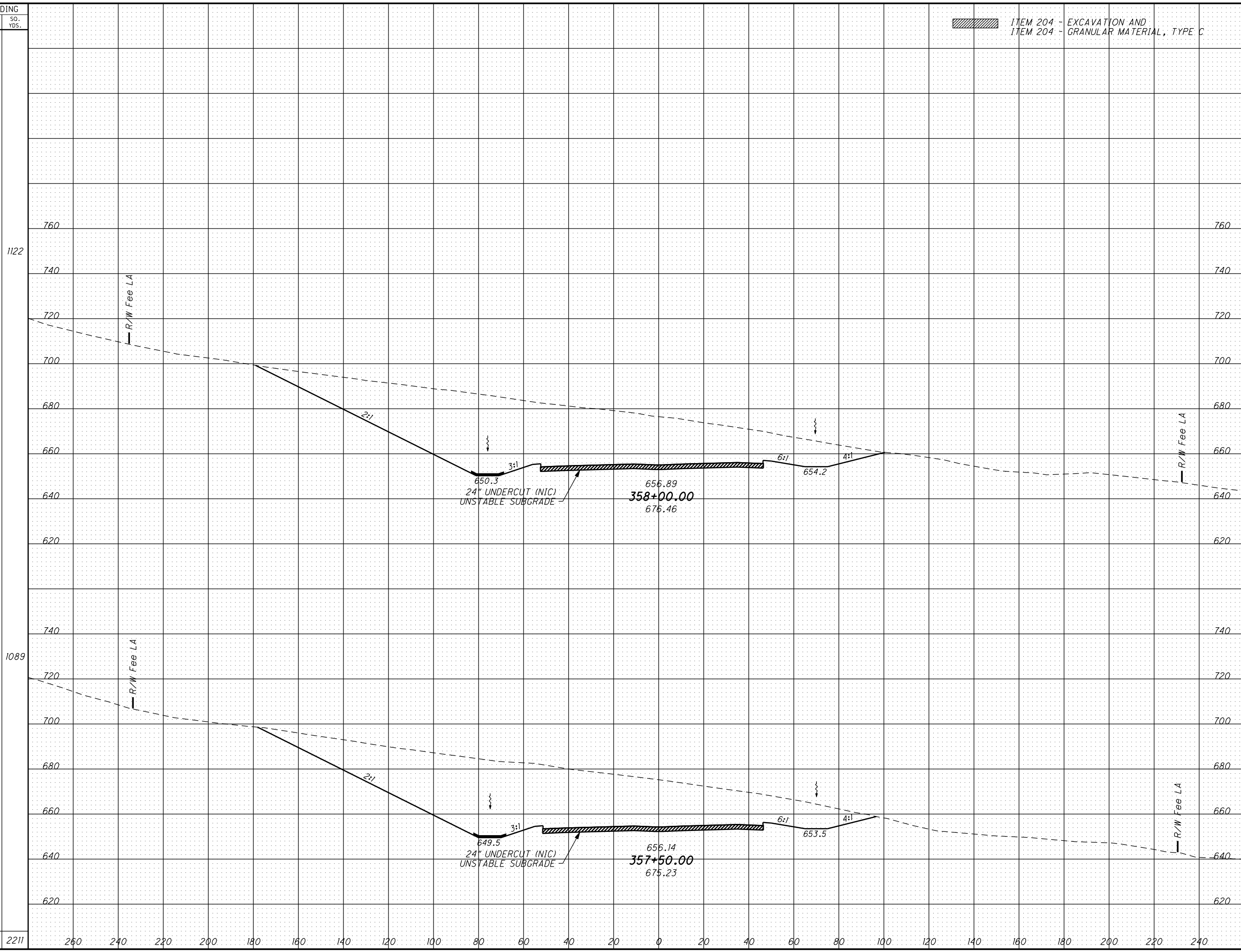
SCI-823-6.81

125
535

CALCULATED
 BD/KAG
 CHECKED
 JMB

USER: C:\hp\l... PLOT DATE: 9/15/2011 2:54:28 PM REVISION DATE: 9/15/2011
 FILE: ..._HDR.C:\BDD\000000045878 /1945x500.dgn MODEL: Sheet

SEEDING	END WIDTH	SQ. YDS.		
			CUT	FILL
	2211			
	260			
	240			
	220			
	200			
	180			
	160			
	140			
	120			
	100			
	80			
	60			
	40			
	20			
	0			
	20			
	40			
	60			
	80			
	100			
	120			
	140			
	160			
	180			
	200			
	220			
	240			
	18565			



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME				
		CUT	FILL	CUT	FILL
5283	0				
9601	0				
5087	0				
8964	0				
18565	0				

CROSS SECTIONS - SR823
 STA. 357+50.00 TO STA. 358+00.00

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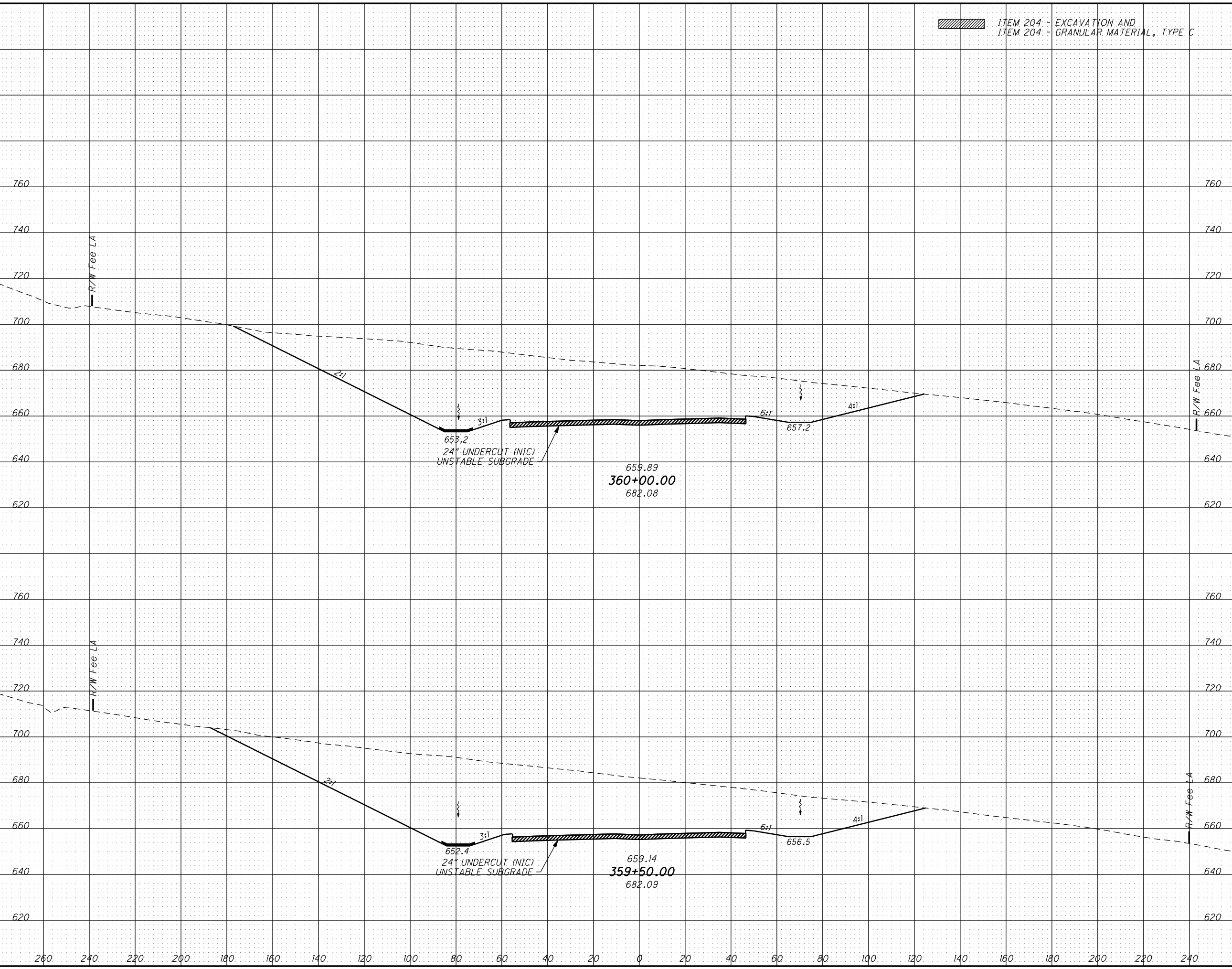
126
535

CALCULATED: JMB
 CHECKED: JMB

USER: C:\winhbr\ PLOT DATE: 9/16/2011 2:55:05 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\C\00000000045878 \945x500.dgn MODEL: Sheet

SEEDING	END WIDTH	SQ. YDS.		
			CUT	FILL
	2389			
	215		6088	0
	228		6483	0
	1155		11639	0
	23266		0	0

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

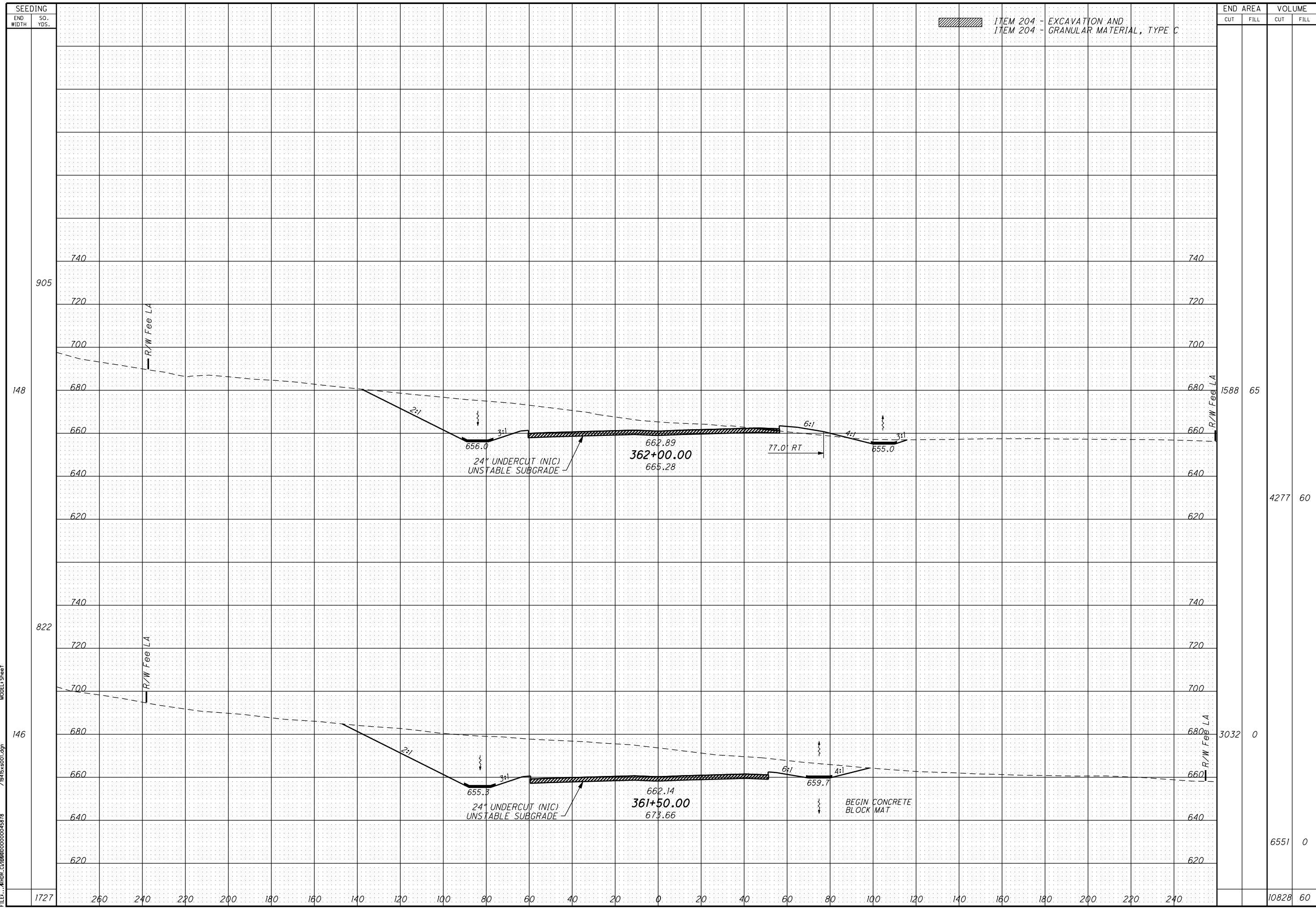


**CROSS SECTIONS - SR823
 STA. 359+50.00 TO STA. 360+00.00**

SCI-823-6.81

CALCULATED
BD/KAG
CHECKED
JMB

USER: cwhhbr; PLOT DATE: 9/15/2011 2:55:45 PM REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p00000000045878 /1945x500.dgn MODEL: Sheet



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
1727					
260					
240					
220					
200					
180					
160					
140					
120					
100					
80					
60					
40					
20					
0					
20					
40					
60					
80					
100					
120					
140					
160					
180					
200					
220					
240					
		1588	65		
		4277	60		
		3032	0		
		6551	0		
		10828	60		

CROSS SECTIONS - SR823
 STA. 361+50.00 TO STA. 362+00.00

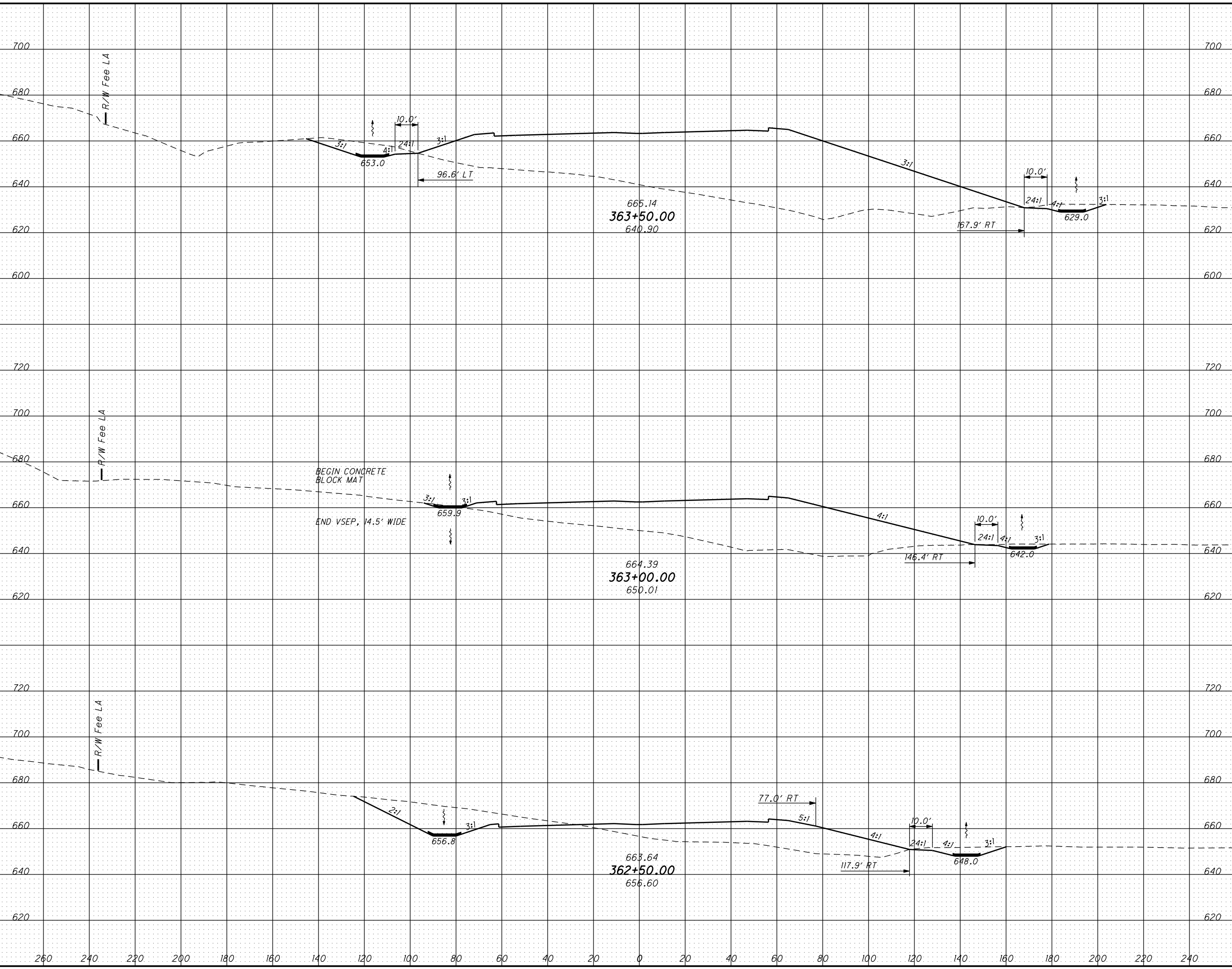
SCI-823-6.81

130
535

CALCULATED
BD/KAG
CHECKED
JMB

USER: C:\hp\brt; PLOT DATE: 9/15/2011 2:56:03 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\C\BDD\000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
700	1367
680	241
660	1116
640	161
620	945
600	178
580	3428



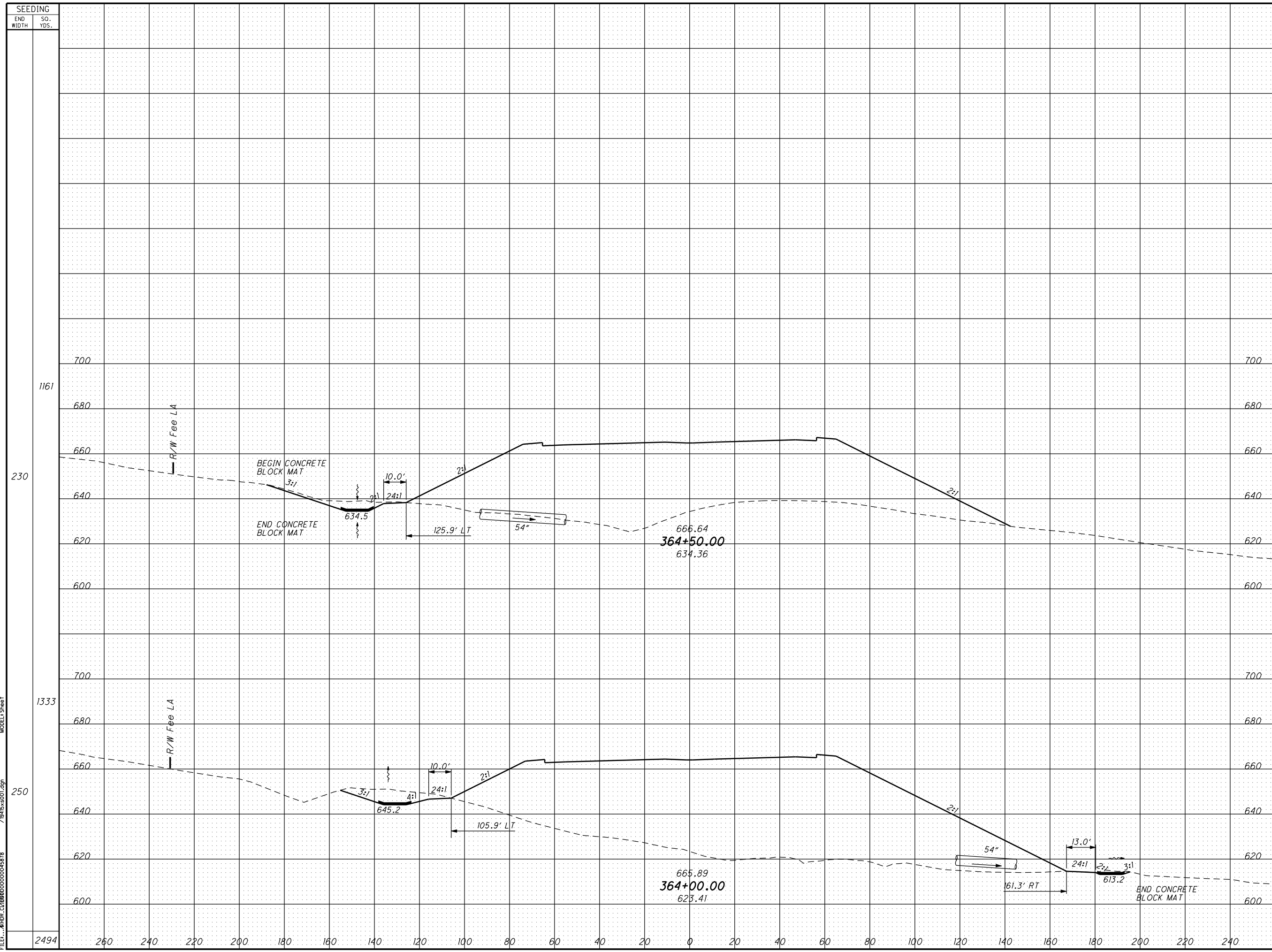
END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
256	5239	284	7483		
51	2842	707	3644		
713	1094	2130	1073		
		3121	12200		

**CROSS SECTIONS - SR823
 STA. 362+50.00 TO STA. 363+50.00**

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535

USER: C:\hp\br\ PLOT DATE: 9/15/2011 2:56:22 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\C:\BDD\00000045878 MODEL1 Sheet



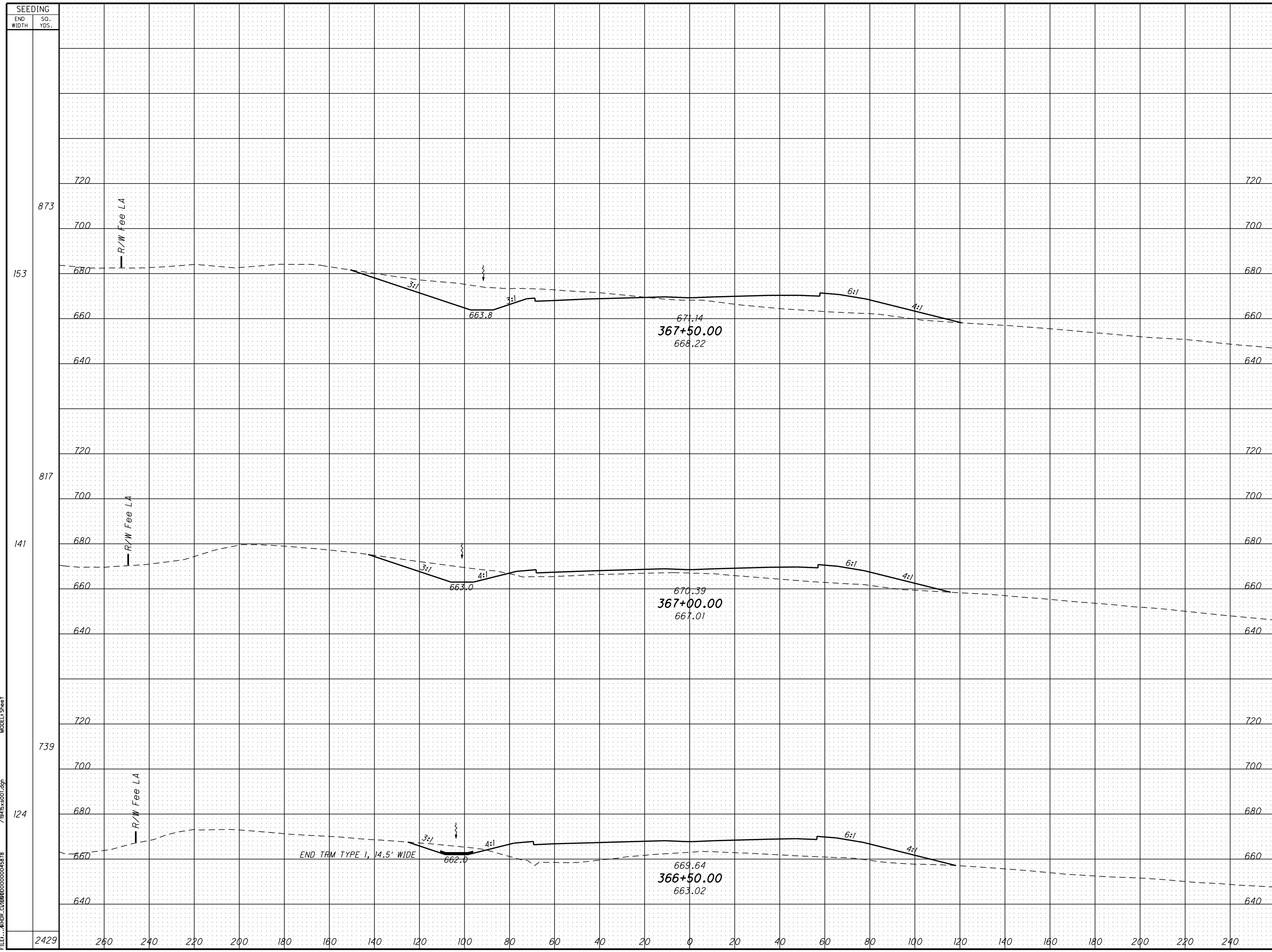
SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
230	1161	115	6269	306	13477		
250	1333	215	8286	436	12524		
2494		742	26001				

**CROSS SECTIONS - SR823
 STA. 364+00.00 TO STA. 364+50.00**

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535

USER: C:\hp\l... PLOT DATE: 9/15/2011 2:57:00 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\CL\00000000045878 MODEL1 Sheet



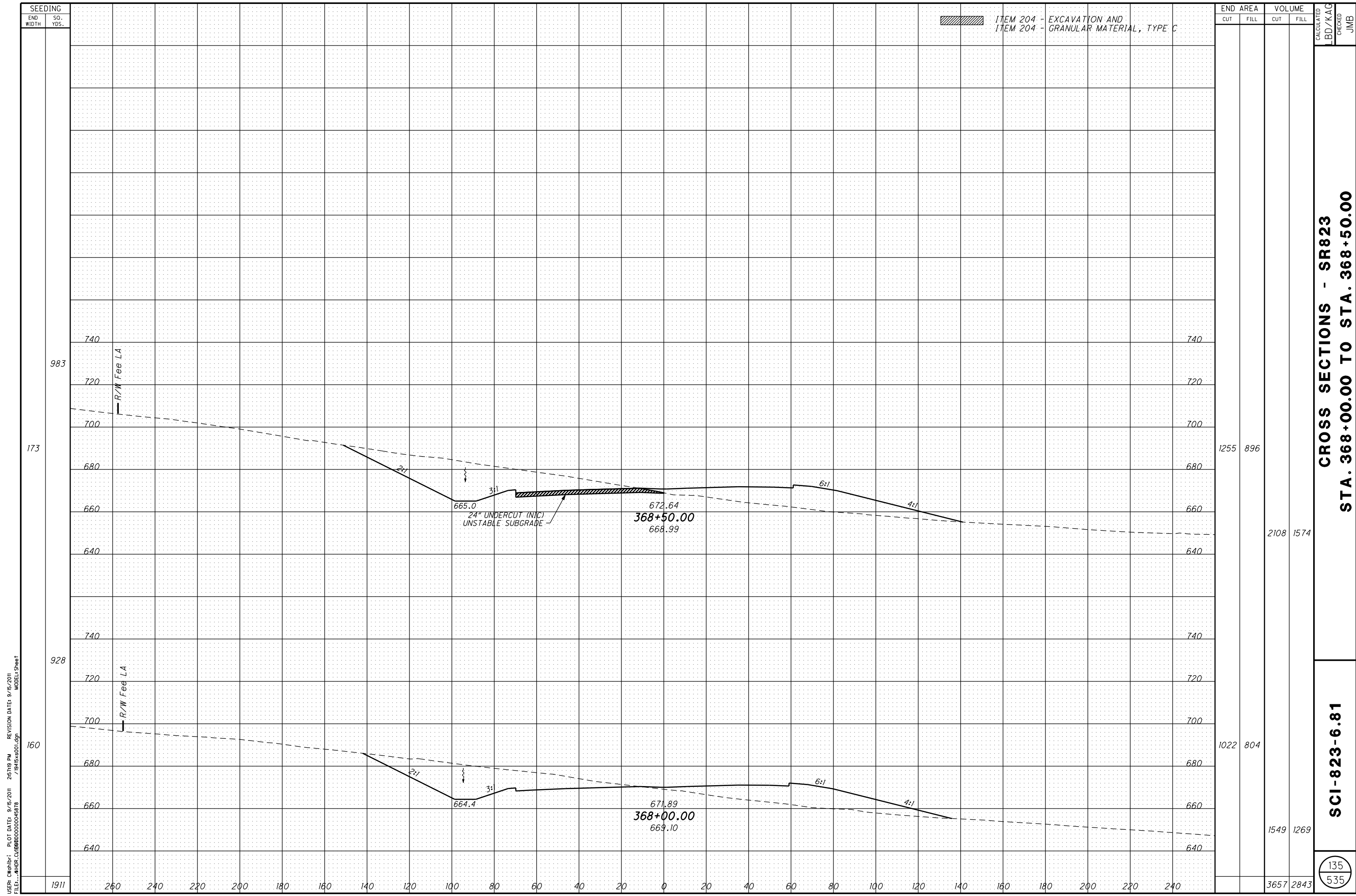
END STA	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
367+50.00	651	566	832	1134
367+00.00	247	659	308	1811
366+50.00	86	1297	123	2963
TOTAL			1263	5908

CALCULATED BY: KAG
 CHECKED BY: JMB

CROSS SECTIONS - SR823
STA. 366+50.00 TO STA. 367+50.00

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ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
1255	896	2108	1574		
1022	804	1549	1269		
		3657	2843		

CROSS SECTIONS - SR823
STA. 368+00.00 TO STA. 368+50.00

SCI-823-6.81

135
535

USER: C:\hp\l... PLOT DATE: 9/15/2011 2:57:19 PM REVISION DATE: 9/15/2011
FILE: ... \9415x801.dgn MODEL: Sheet

SEEDING
END WIDTH SQ. YDS.
1911



R/W Fee LA

R/W Fee LA

24" UNDERCUT (NIC)
UNSTABLE SUBGRADE

368+50.00
668.99

368+00.00
669.10



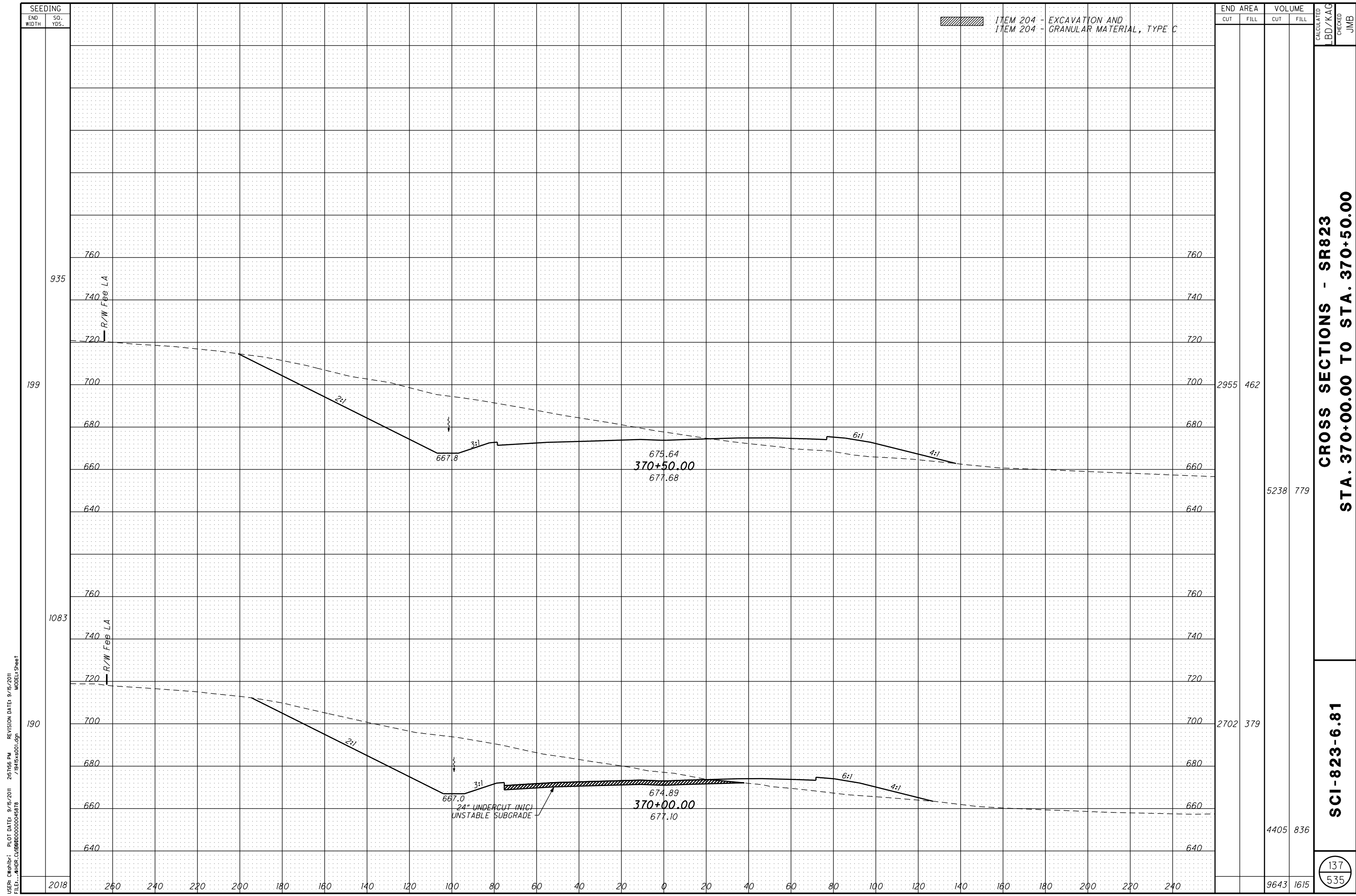
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 FILE: \\HDDR.C\BDD000000045878 /1945x500.dgn MODEL: Sheet

END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
2056	523	3402	1133		
1618	701	2660	1479		
		6062	2612		

CROSS SECTIONS - SR823
STA. 369+00.00 TO STA. 369+50.00

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136
535



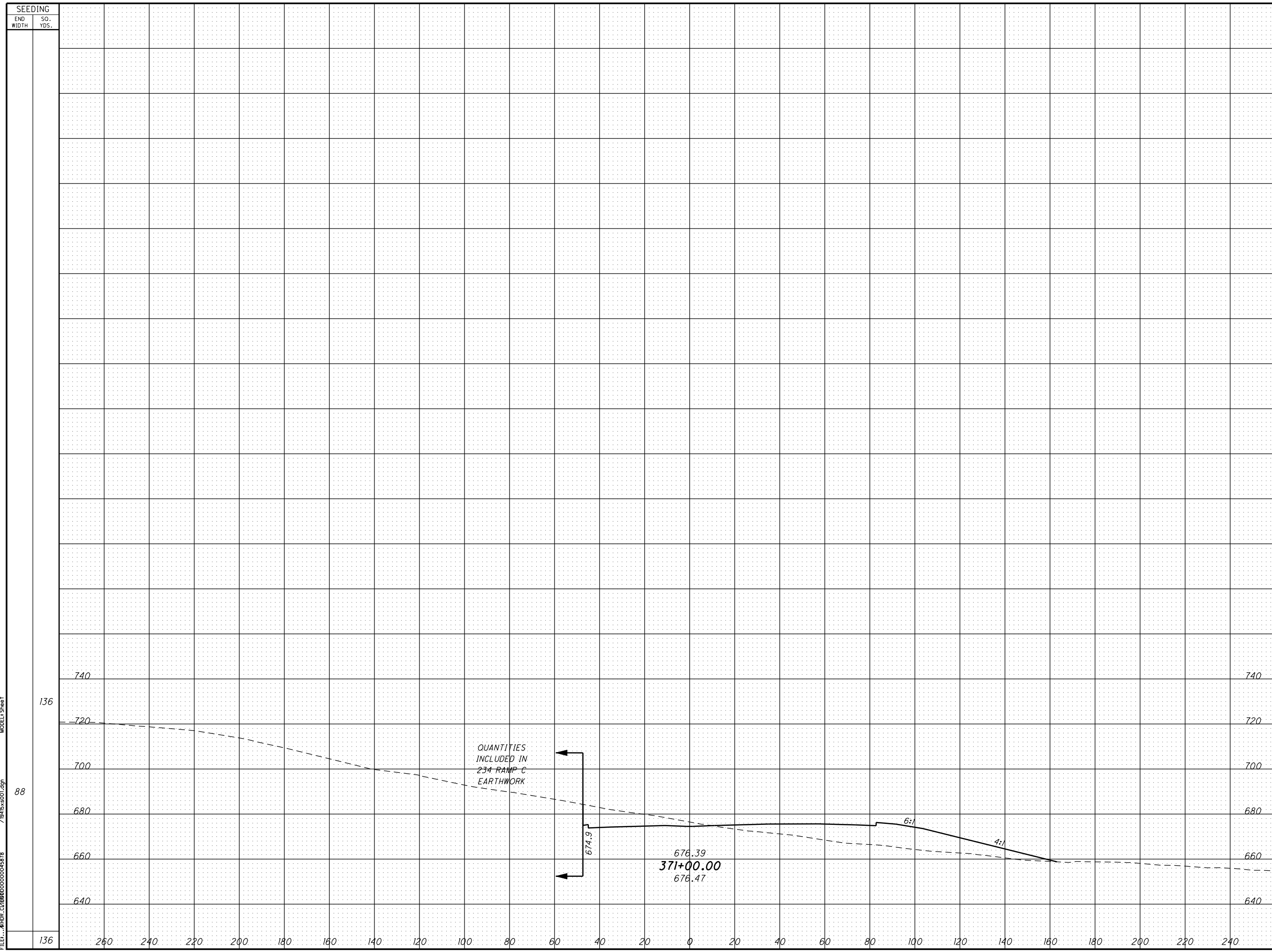
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 FILE: \\HDR.C\BDD00000045878_1915x801.dgn MODEL: Sheet

CROSS SECTIONS - SR823
STA. 370+00.00 TO STA. 370+50.00

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137
535

USER: C:\hp\h... PLOT DATE: 9/16/2011 2:58:05 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\C\0000000045878 MODEL1 Sheet



SEEDING		END AREA		VOLUME		CALCULATED LB/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
136							
88		286	873				
		4117	1237				
136				4117	1237		

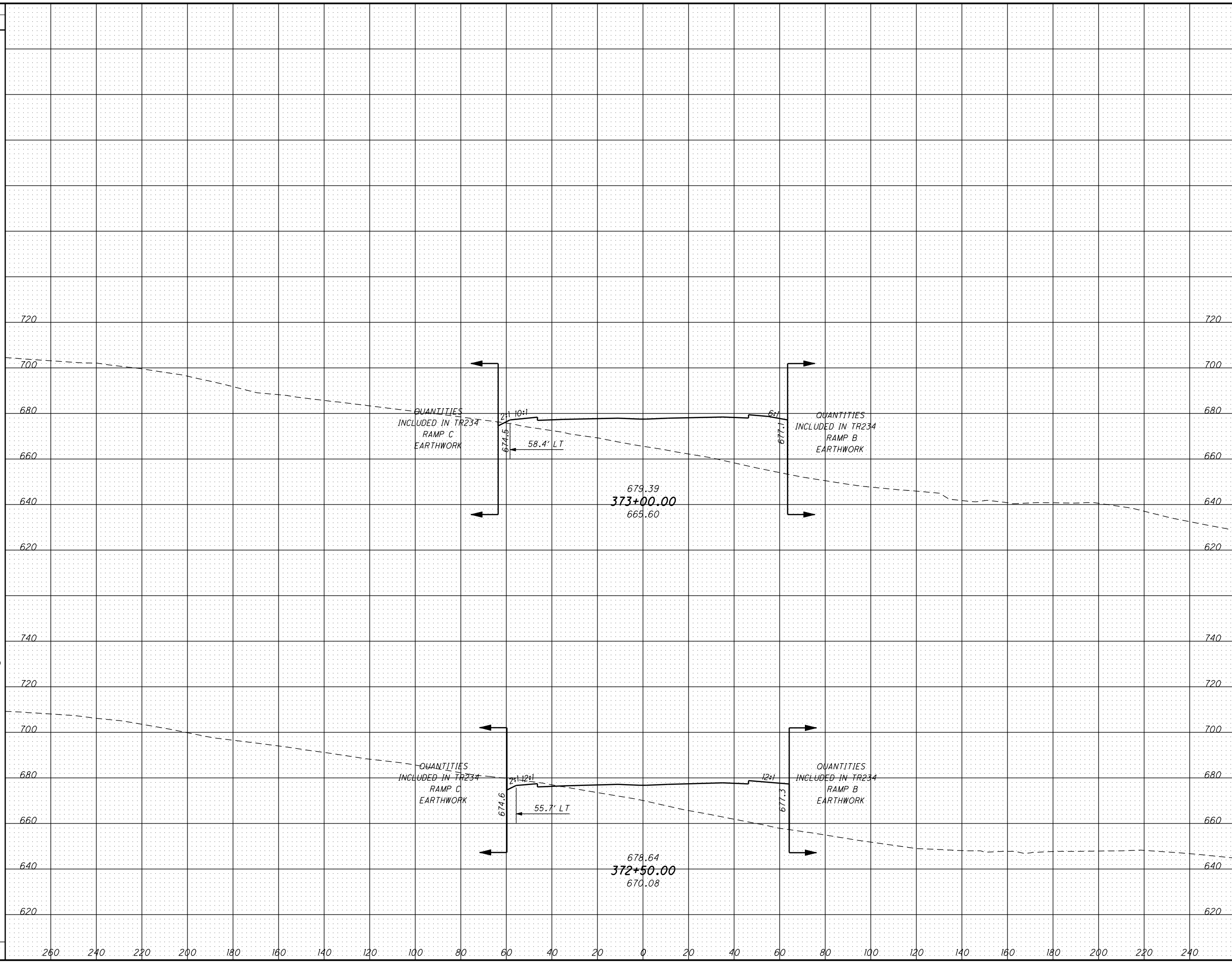
CROSS SECTIONS - SR823
STA. 371+00.00 TO STA. 371+00.00

SCI-823-6.81

138
535

USER: cwhhbr; PLOT DATE: 9/15/2011 2:59:05 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.CL\0000000045878_7\945x802.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
444	
344	
38	
244	



END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
2	1579				
39	2424				
40	1039				
160	1542				
199	3966				

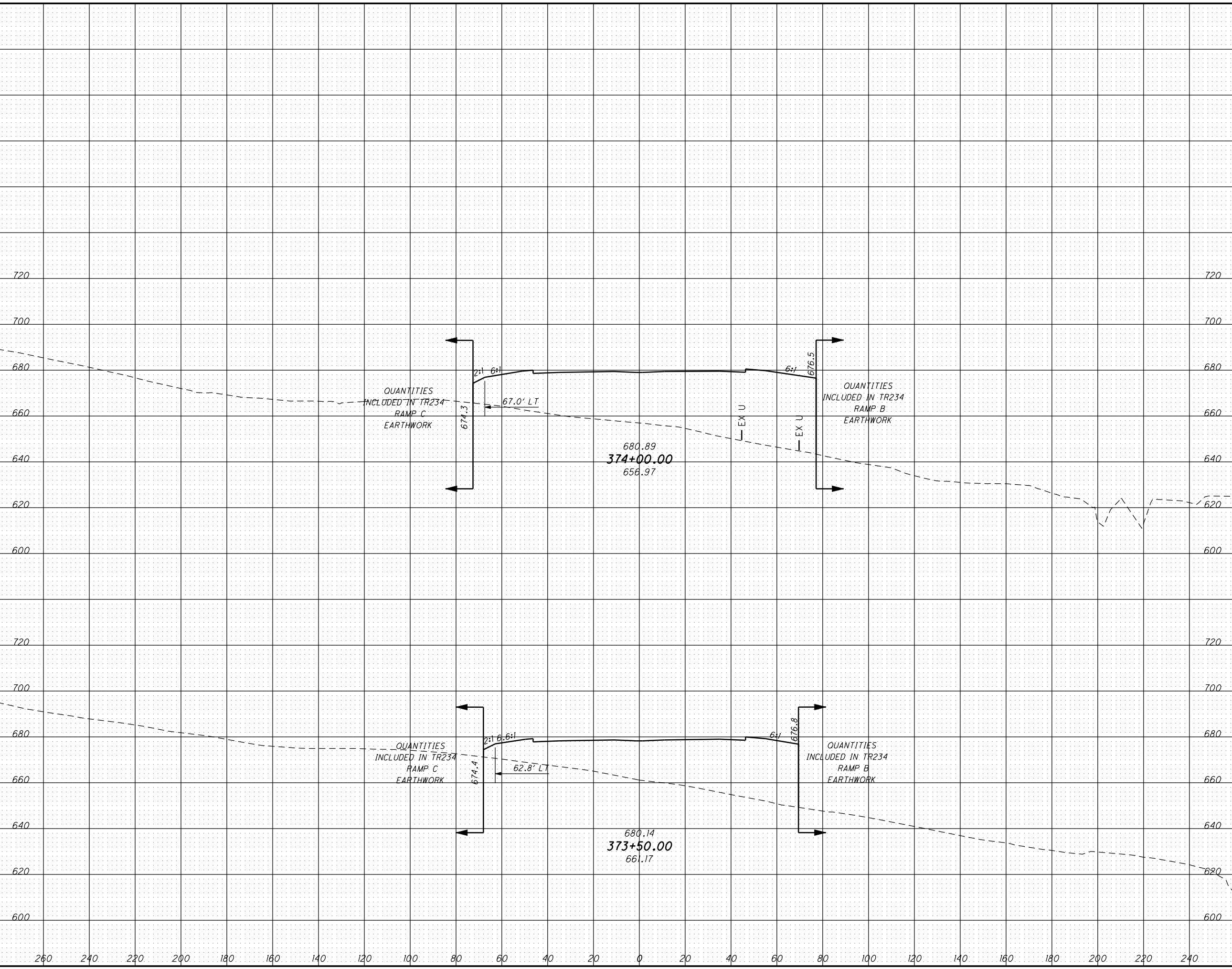
**CROSS SECTIONS - SR823
 STA. 372+50.00 TO STA. 373+00.00**

SCI-823-6.81

140
535

USER: C:\winhbr\ PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: \\HDR\CL\00000000045878_7\945x502.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
666	
49	
305	
60	
361	



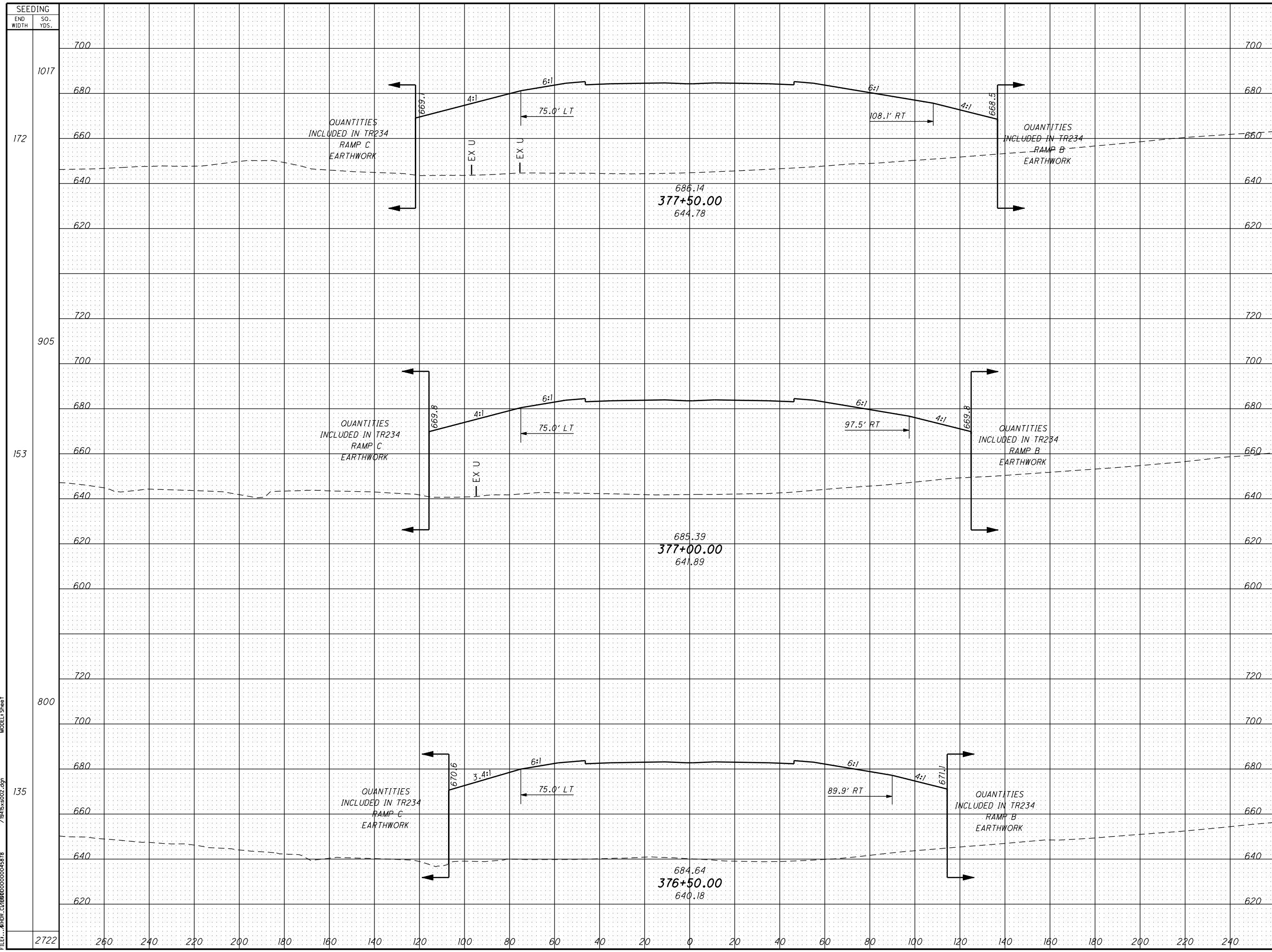
END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
0	3494	0	5434		
0	2374	2	3660		
2	9094				

**CROSS SECTIONS - SR823
 STA. 373+50.00 TO STA. 374+00.00**

SCI-823-6.81

141
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:00:23 PM REVISION DATE: 9/15/2011
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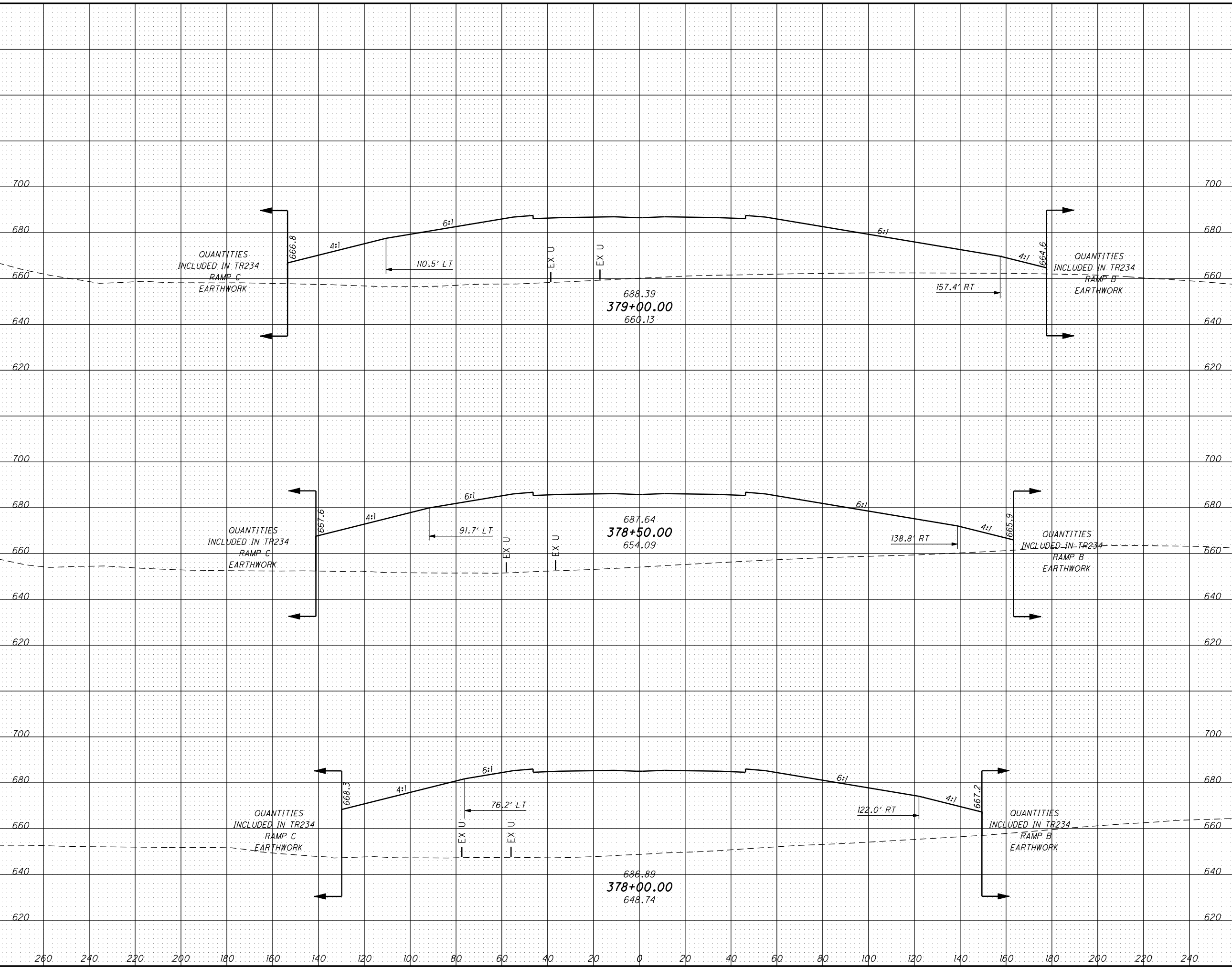
END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
		CUT	FILL	CUT	FILL		
700	1017						
680							
660	172	0	8761				
640							
620				0	16347		
720	905						
700							
680							
660	153	0	8893				
640							
620				0	16420		
600							
720	800						
700							
680							
660	135	0	8840				
640							
620				0	16368		
2722				0	49135		

CROSS SECTIONS - SR823
STA. 376+50.00 TO STA. 377+50.00

SCI-823-6.81

USER: cwhhbr; PLOT DATE: 9/15/2011 3:00:42 PM REVISION DATE: 9/15/2011
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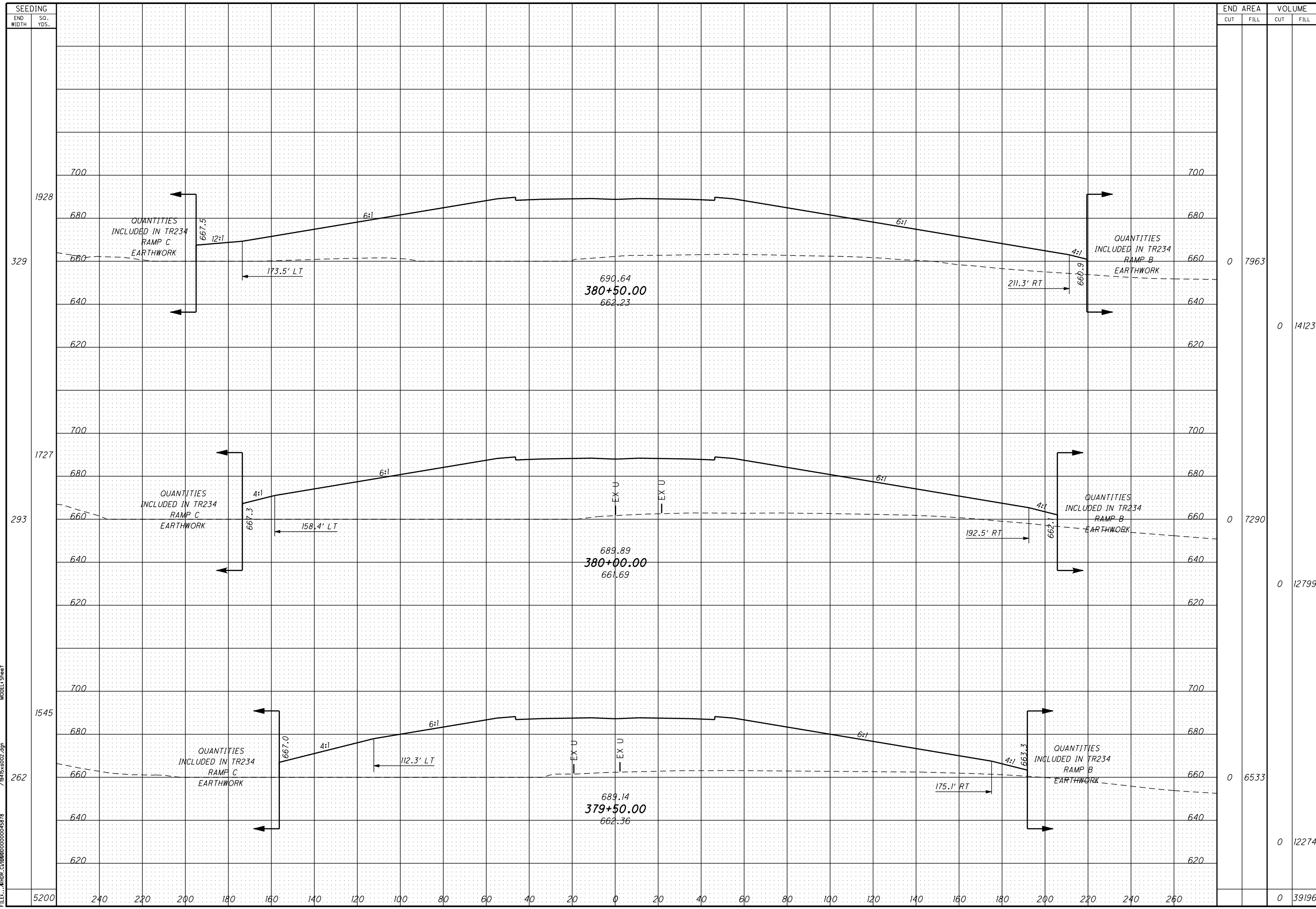
SEEDING	
END WIDTH	SO. YDS.
3850	1411
260	246
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
0	6723	0	13290	0
0	7630	0	14833	0
0	8389	0	15880	0
0	44003	0		

CALCULATED BY: KAG
 CHECKED BY: JMB
CROSS SECTIONS - SR823
STA. 378+00.00 TO STA. 379+00.00
SCI-823-6.81
 145
 535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:00:01 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\B00000000045878 MODEL1 Sheet



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
0	7963	0	14123	0
0	7290	0	12799	0
0	6533	0	12274	0
0	39196	0	146	535

CROSS SECTIONS - SR823
STA. 379+50.00 TO STA. 380+50.00

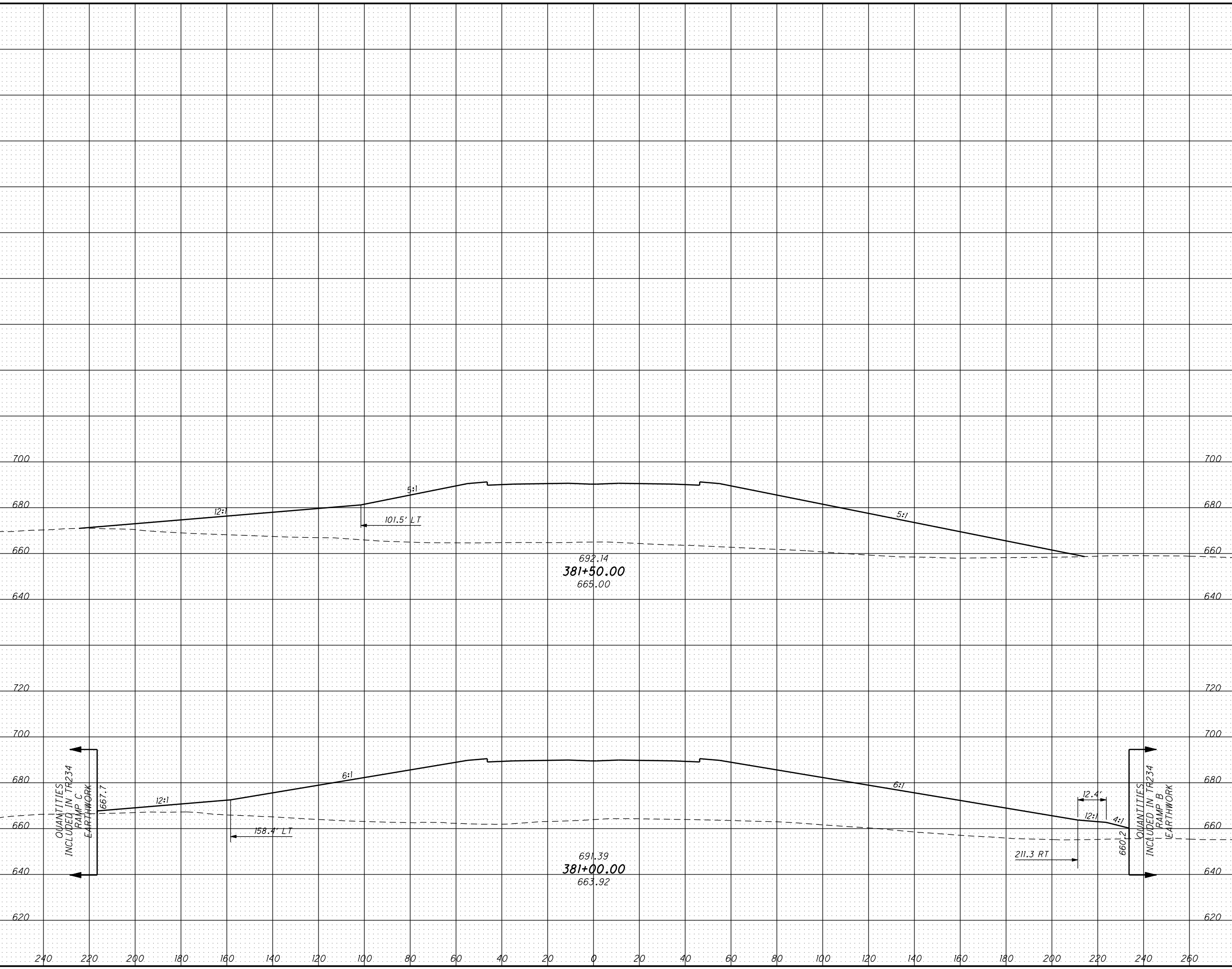
SCI-823-6.81

146
535

USER: C:\hp\brt; PLOT DATE: 9/15/2011 3:02:20 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD000000045878 /1945ss02.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
3622	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	
260	

1628
353
1994
364



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	7152	0	13835
0	7790	0	14586
0	28421	0	28421

CALCULATED
 LD/KAG
 CHECKED
 JMB

CROSS SECTIONS - SR823
STA. 381+00.00 TO STA. 381+50.00

SCI-823-6.81

147
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:04:58 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD00000045878_1915x802.dgn MODEL: Sheet



383+38.00
670.57

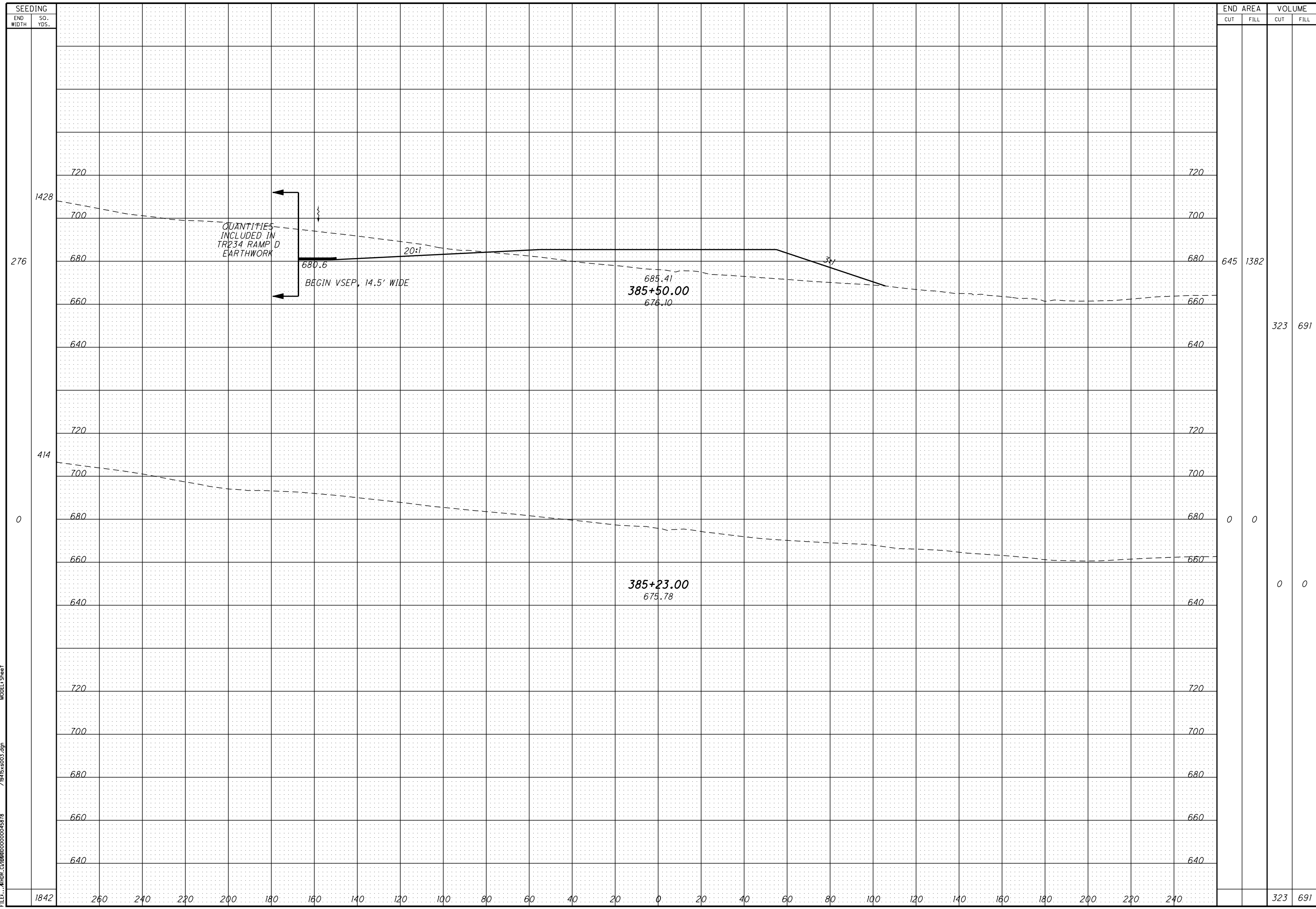
SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
0		0	0	0	1620		

CROSS SECTIONS - SR823
STA. 383+38.00 TO STA. 383+38.00

SCI-823-6.81

149
535

USER: C:\hp\brj; PLOT DATE: 9/15/2011 3:02:24 PM REVISION DATE: 9/15/2011
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CALCULATED
 LBD/KAG
 CHECKED
 JMB

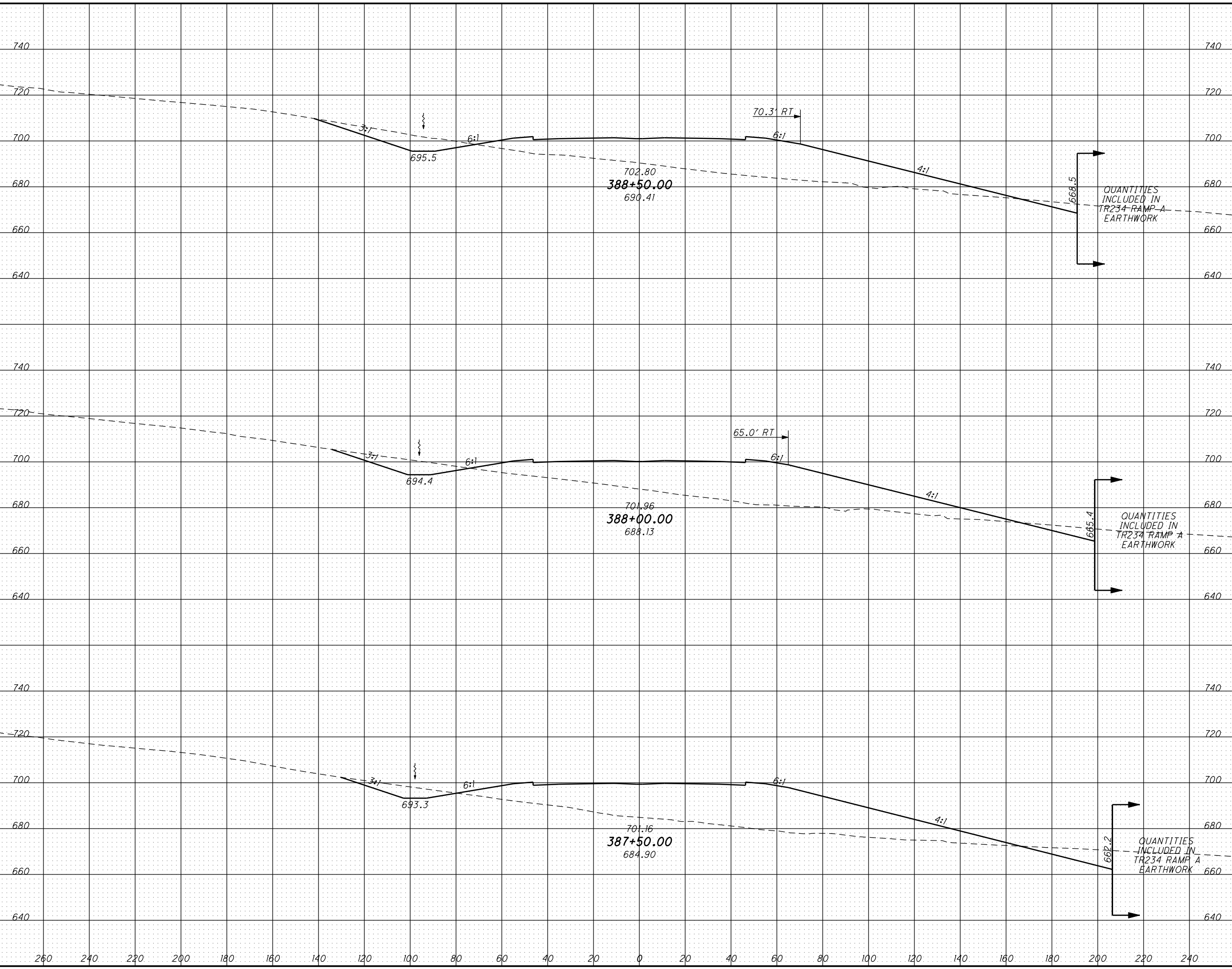
CROSS SECTIONS - SR823
STA. 385+23.00 TO STA. 385+50.00

SCI-823-6.81

150
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:03:02 PM REVISION DATE: 9/15/2011
 FILE: \\HDR\CL\00000000045878 /945x503.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
1344	740
250	720
1389	740
250	720
1400	740
253	720
4133	740



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1344				
250	315	2262	571	4375
1389				
250	303	2464	568	4905
1400				
253	311	2834	598	5379
4133			1737	14659

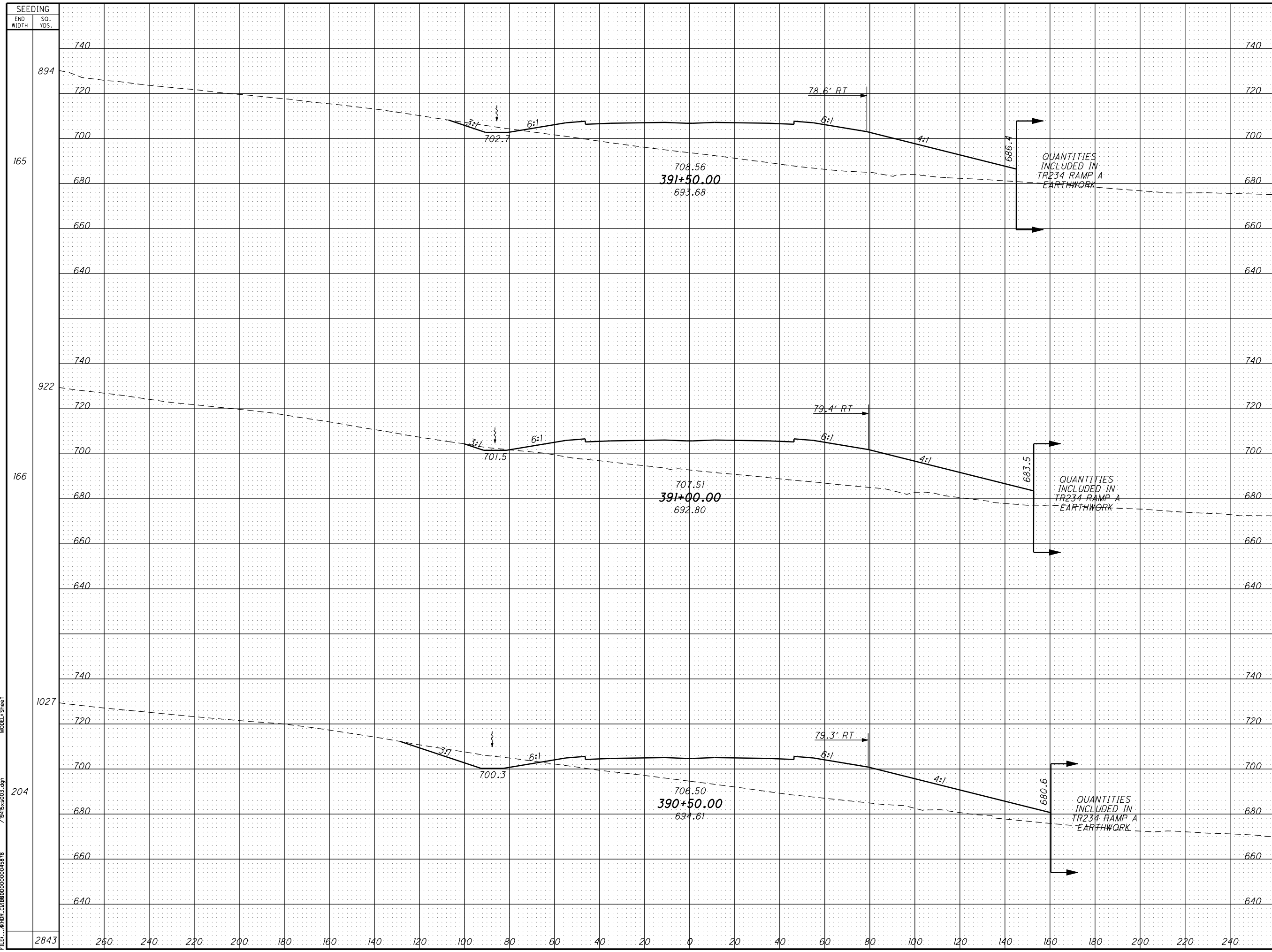
CALCULATED
 LBD/KAG
 CHECKED
 JMB

**CROSS SECTIONS - SR823
 STA. 387+50.00 TO STA. 388+50.00**

SCI-823-6.81

152
 535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:03:19 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.CL\00000000045878_1\945x503.dgn MODEL: Sheet

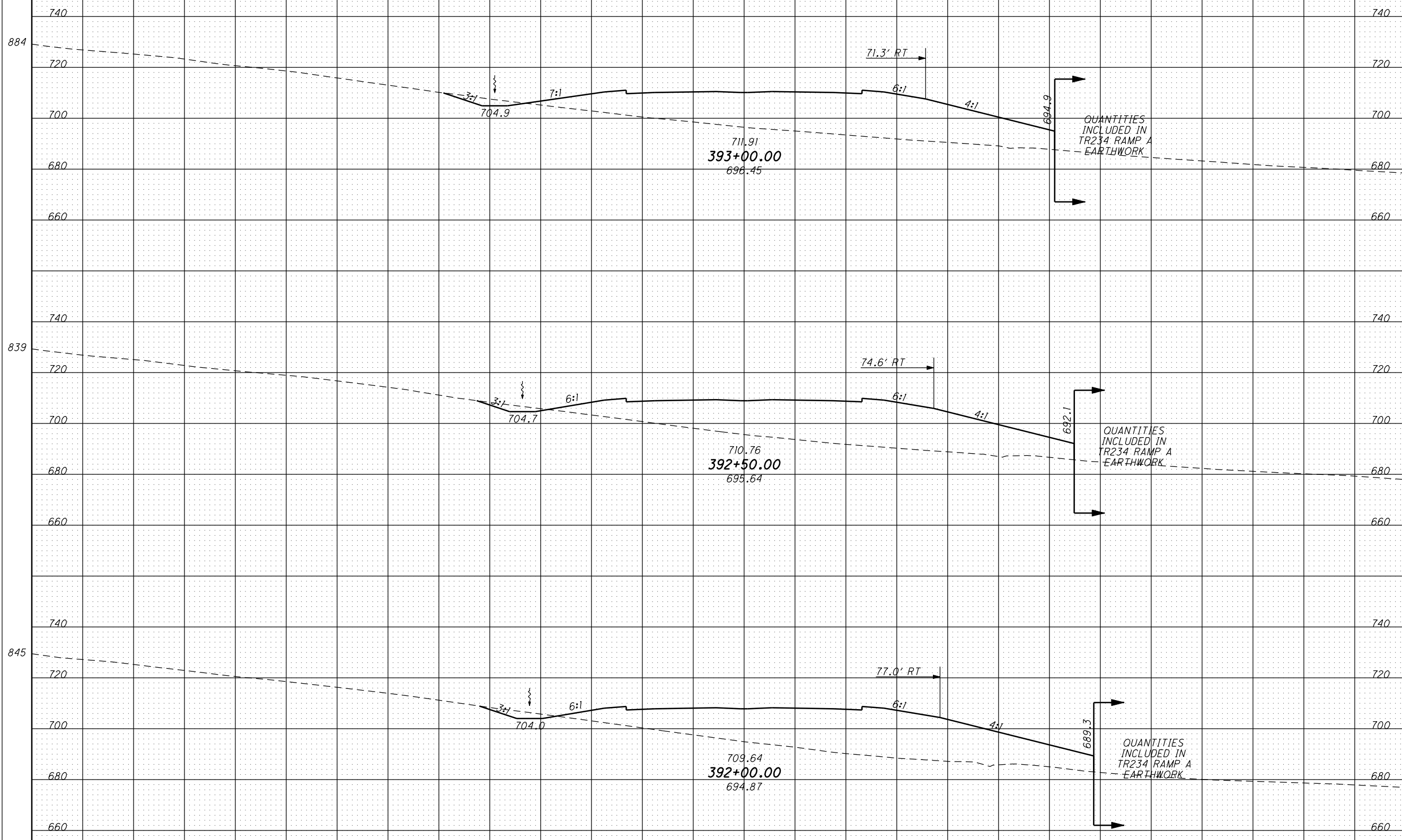


SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
740				
720				
700				
680	53	2763		
660				
640			63	5169
740				
720				
700				
680	15	2820		
660				
640			202	4827
740				
720				
700				
680	203	2393		
660				
640			369	4419
2843			634	14415

CALCULATED
 LB/KAG
 CHECKED
 JMB
CROSS SECTIONS - SR823
STA. 390+50.00 TO STA. 391+50.00
SCI-823-6.81
 154
 535

USER: C:\hp\l... PLOT DATE: 9/15/2011 3:03:58 PM REVISION DATE: 9/15/2011
 FILE: ... \9415x803.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
2568	
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

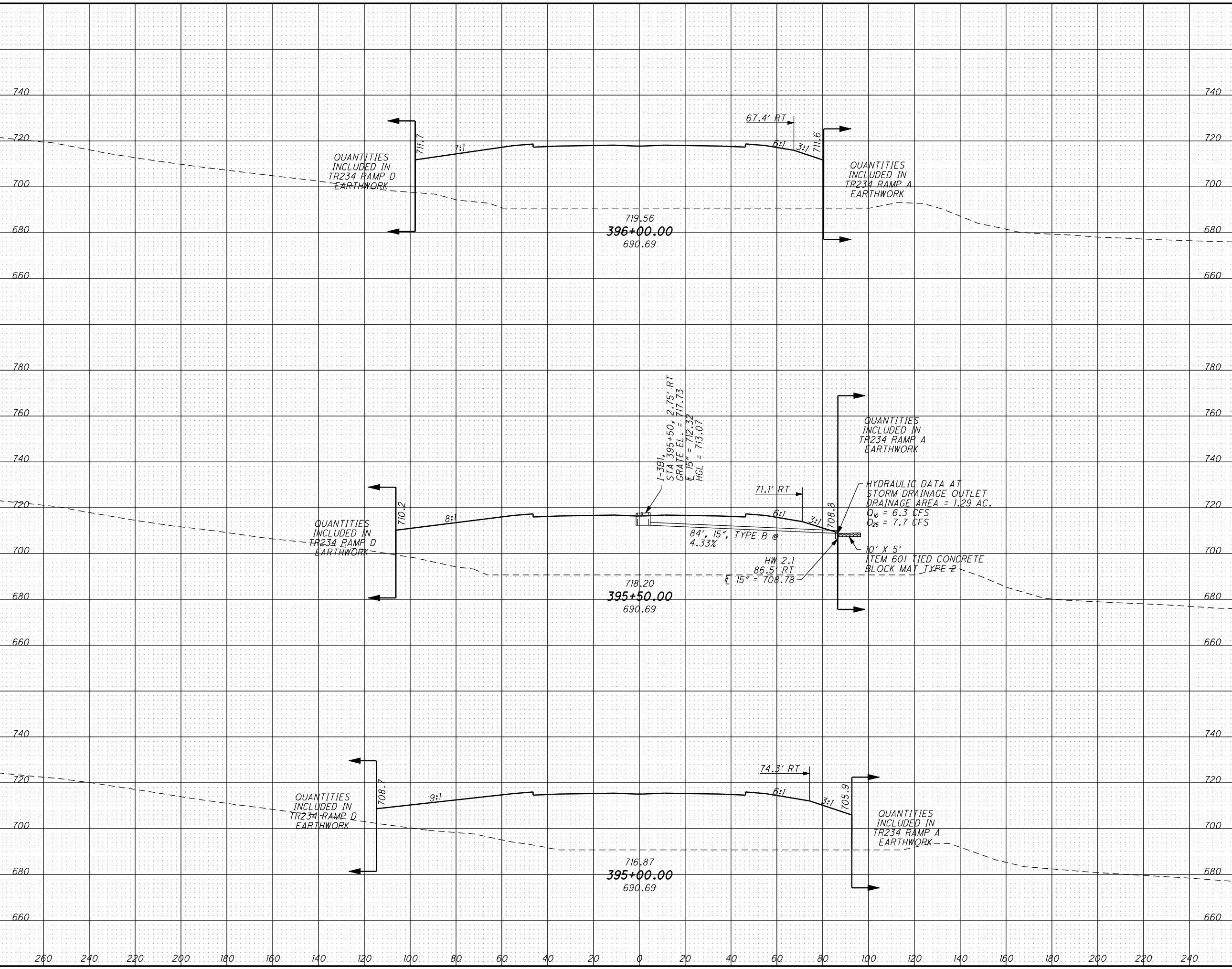


END AREA	VOLUME				
		CUT	FILL	CUT	FILL
54	2494				
88	4611				
41	2486				
84	4654				
50	2541				
95	4910				
267	14175				

CALCULATED BY/KAG
 CHECKED JMB
CROSS SECTIONS - SR823
STA. 392+00.00 TO STA. 393+00.00
SCI-823-6.81
 155
 535

USER: C:\pwh\p1; PLOT DATE: 9/15/2011 3:04:36 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\C\pwh\00000000045878_1\945s003.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
1622	455
1622	89
1622	544
1622	105
1622	623
1622	119
1622	1622



END AREA	VOLUME	
	CUT	FILL
0	4509	0
0	8370	0
0	4531	0
0	8126	0
0	4245	0
0	7364	0
0	23860	0

CALCULATED BY: KAG
 CHECKED BY: JMB

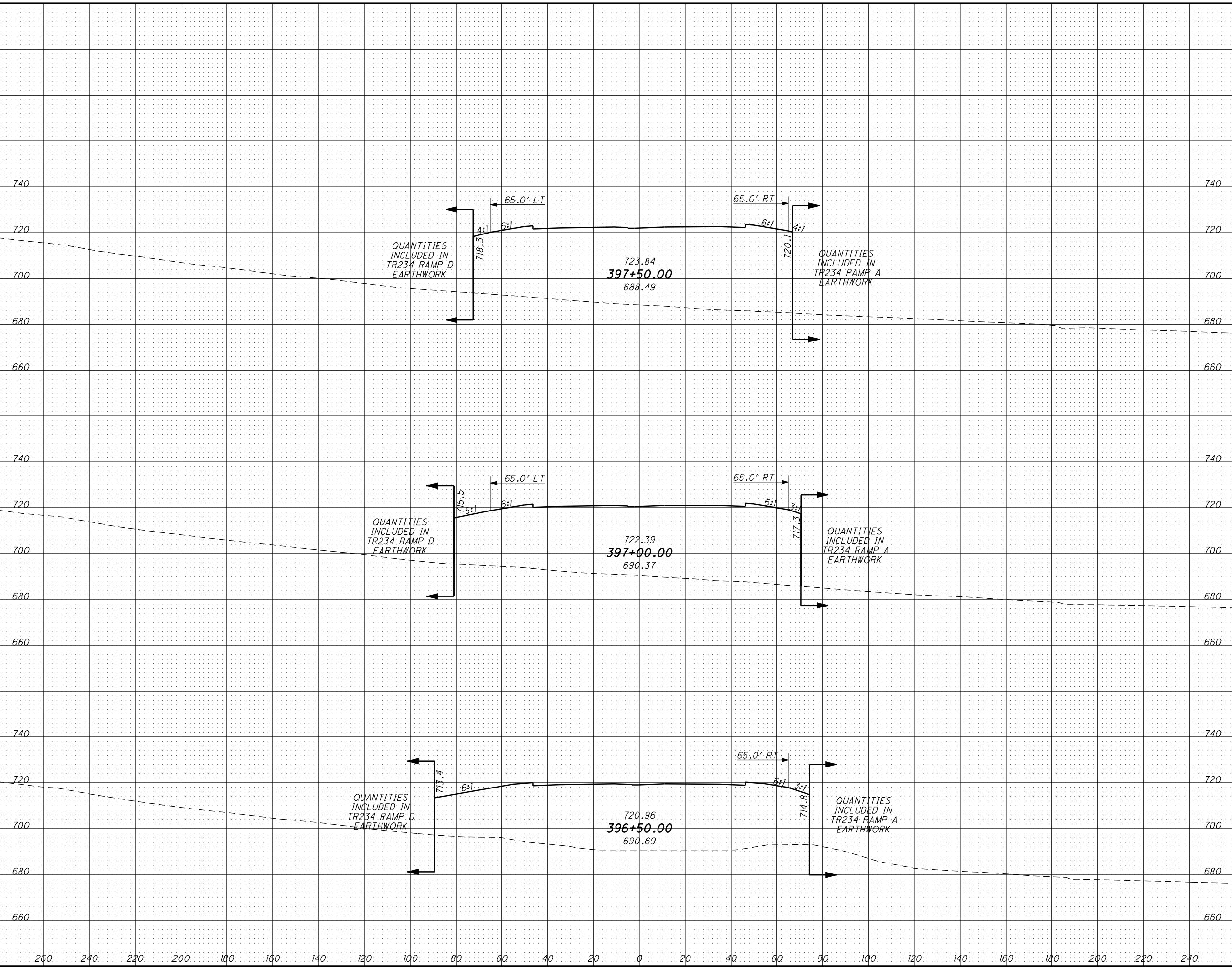
CROSS SECTIONS - SR823
STA. 395+00.00 TO STA. 396+00.00

SCI-823-6.81

157
535

USER: C:\hp\brt; PLOT DATE: 9/15/2011 3:04:55 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD\000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
956	75
260	384
240	62
220	311
200	50
180	261
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

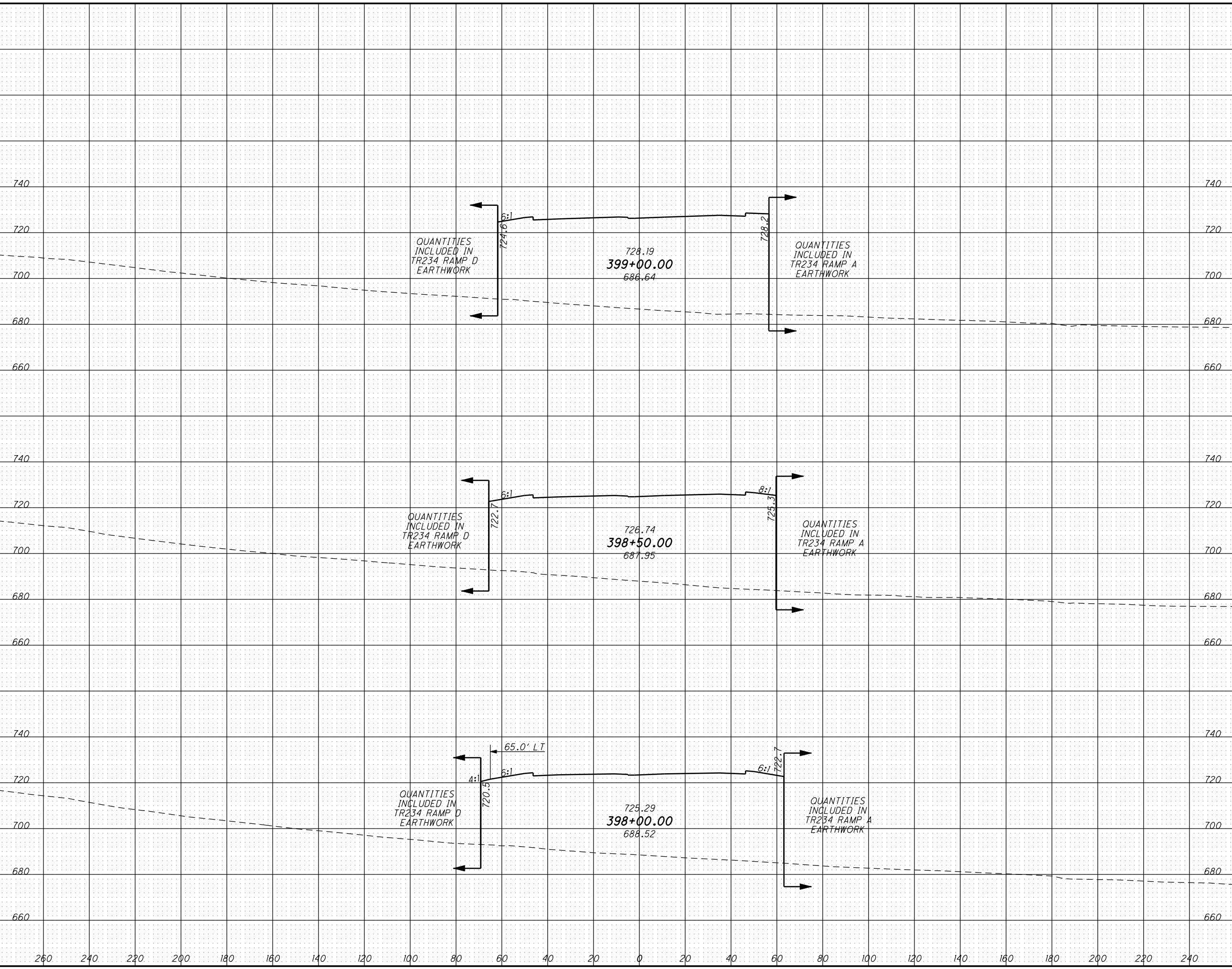


END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
0	0	4615	0	8412
0	0	4470	0	8052
0	0	4226	0	8088
0	0	24552	0	535

CALCULATED BY/KAG
 CHECKED JMB
CROSS SECTIONS - SR823
STA. 396+50.00 TO STA. 397+50.00
SCI-823-6.81
 158
 535

USER: C:\hp\brt; PLOT DATE: 9/15/2011 3:05:14 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD\000000045878_7\945x803.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
561	155
260	29
240	184
220	36
200	222
180	43
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	4688	0	8633
0	4635	0	8557
0	4607	0	8538
0	25728	0	25728

CALCULATED BY: KAG
 CHECKED BY: JMB

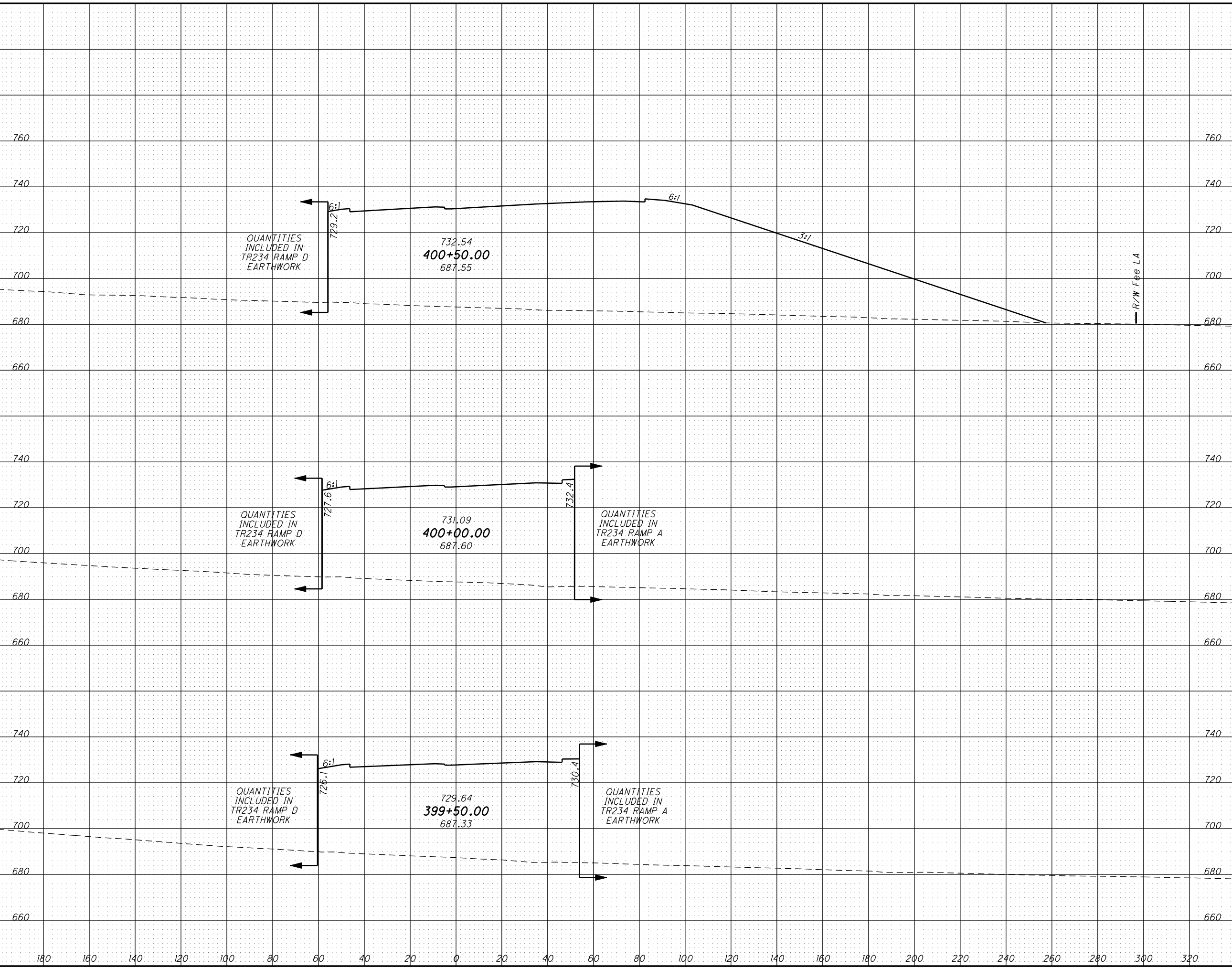
CROSS SECTIONS - SR823
STA. 398+00.00 TO STA. 399+00.00

SCI-823-6.81

159
535

USER: C:\hp\brt; PLOT DATE: 9/15/2011 3:05:13 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c:\p000\000000045878 /9415x803.dgn MODEL: Sheet

SEEDING	END WIDTH	SQ. YDS.		
			CUT	FILL
1095	760	760	0	10753
196	740	740	0	11109
	720	720	0	4616
21	700	700	0	8590
	680	680	0	4661
127	660	660	0	8657
25	640	640	0	28356
1557	620	620	0	

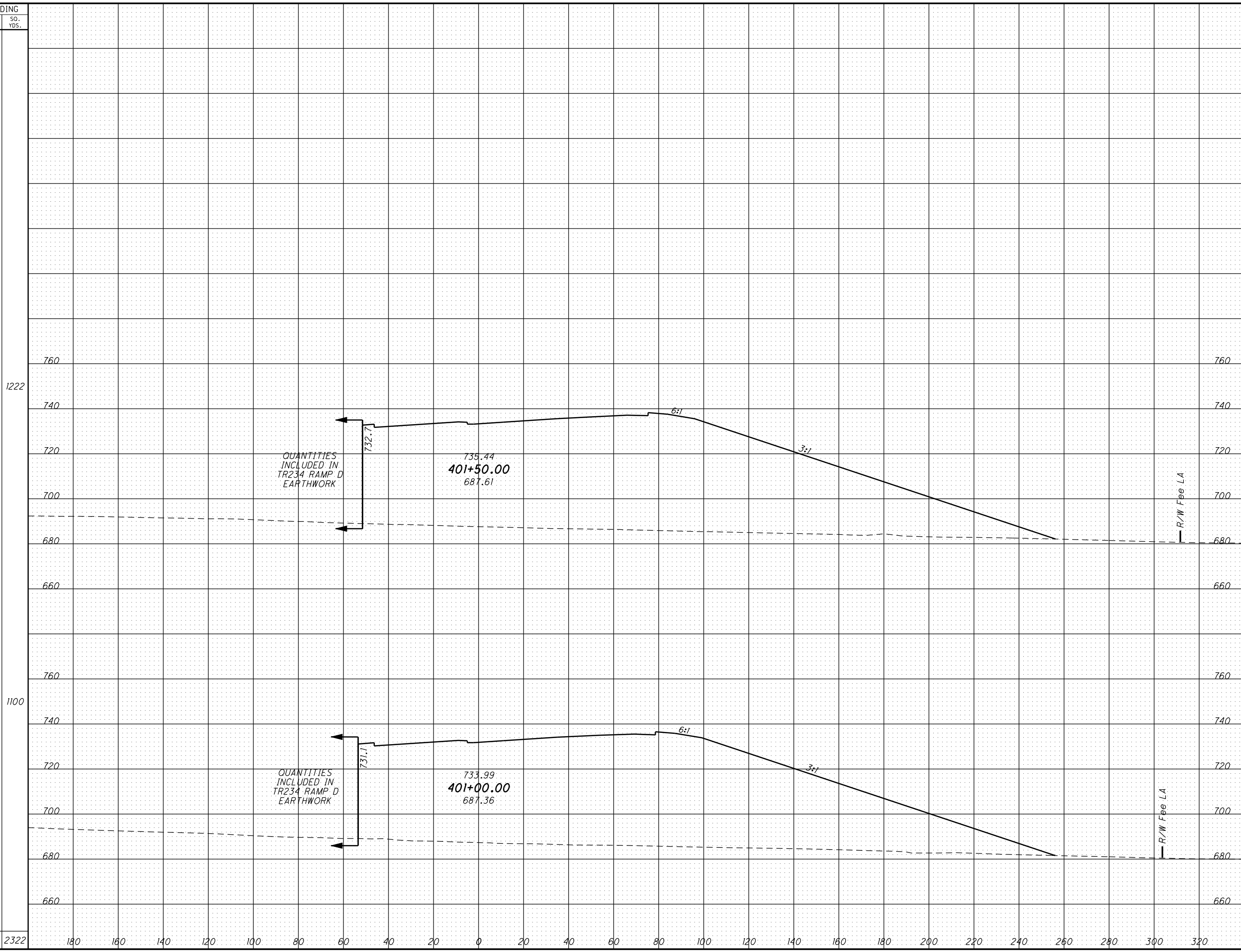


END AREA	VOLUME	CALCULATED	CHECKED
0	10753		
0	11109		
0	4616		
0	8590		
0	4661		
0	8657		
0	28356		

CROSS SECTIONS - SR823
 STA. 399+50.00 TO STA. 400+50.00
 SCI-823-6.81
 160
 535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:05:51 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.CL\BDD\00000045878_7\945x803.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
2322	



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1222				
198	0	11047	0	20305
1100				
197	0	10882	0	20032
	0	40337	0	40337

CALCULATED
 LD/KAG
 CHECKED
 JMB

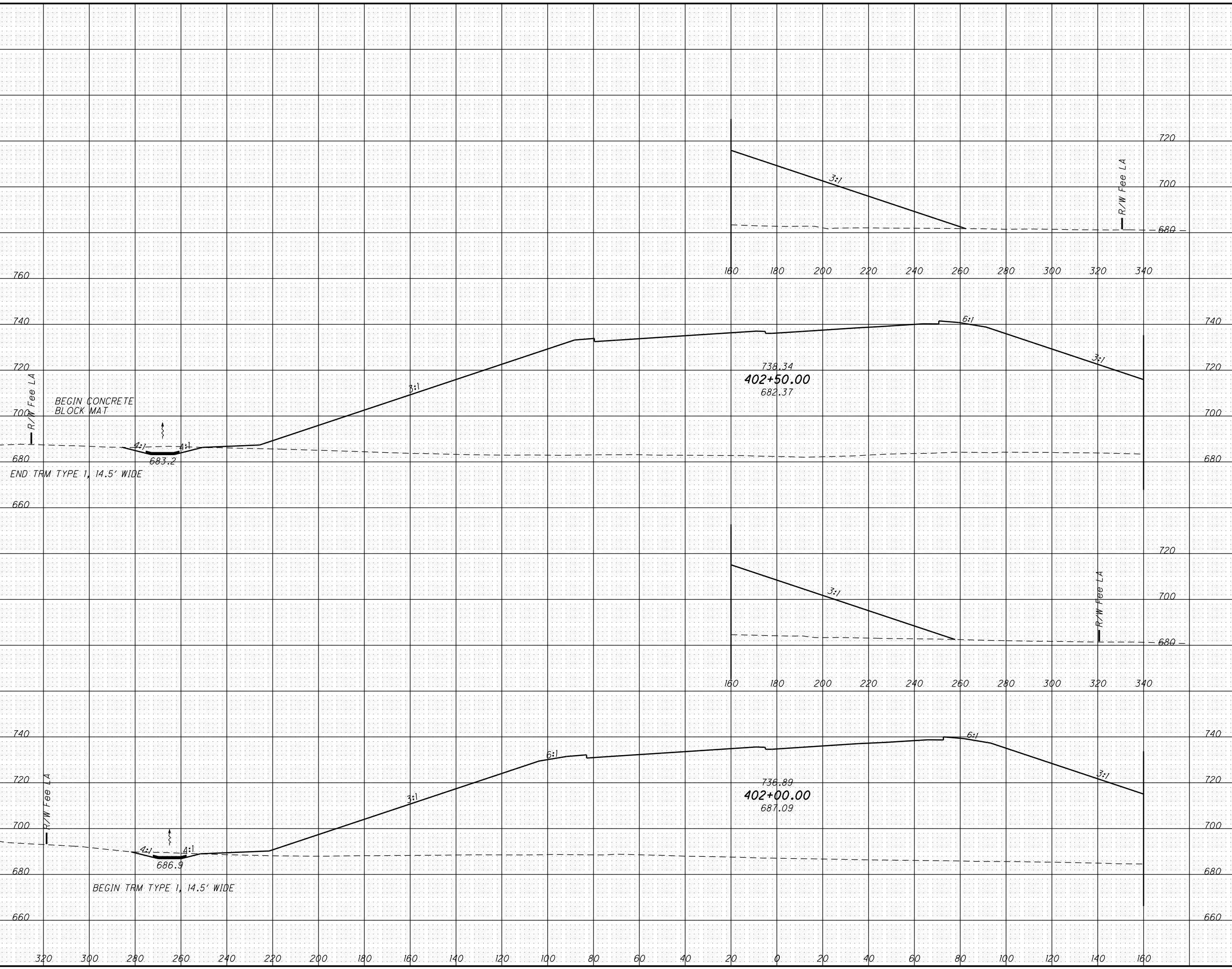
**CROSS SECTIONS - SR823
 STA. 401+00.00 TO STA. 401+50.00**

SCI-823-6.81

161
 535

USER: C:\hp\br\1\ PLOT DATE: 9/15/2011 3:06:10 PM REVISION DATE: 9/15/2011
 FILE: \\HDR\CL\00000000045878 /1945x803.dgn MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
4656	320
403	300
2289	280
419	260
2367	240
760	220
740	200
720	180
700	160
680	140
660	120
640	100
620	80
600	60
580	40
560	20
540	0
520	20
500	40
480	60
460	80
440	100
420	120
400	140
380	160
360	180
340	200
320	220
300	240
280	260
260	280
240	300
220	320

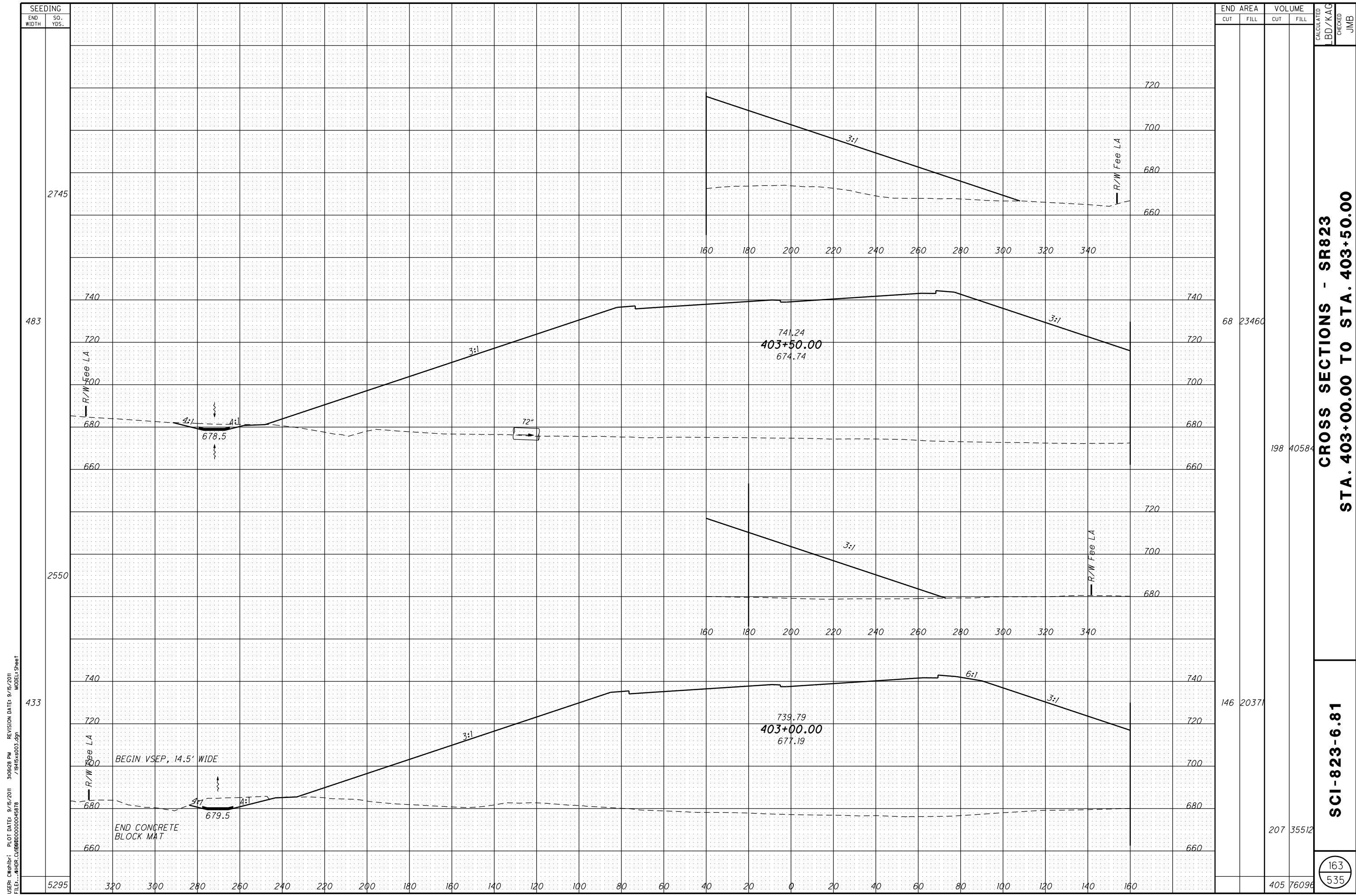


END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
78	17982	119	31669		
51	16221	48	21481		
		167	53150		

**CROSS SECTIONS - SR823
 STA. 402+00.00 TO STA. 402+50.00**

SCI-823-6.81

162
535



USER: C:\win\brt; PLOT DATE: 9/15/2011 3:06:28 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD000000045878 /945x503.dgn MODEL: Sheet

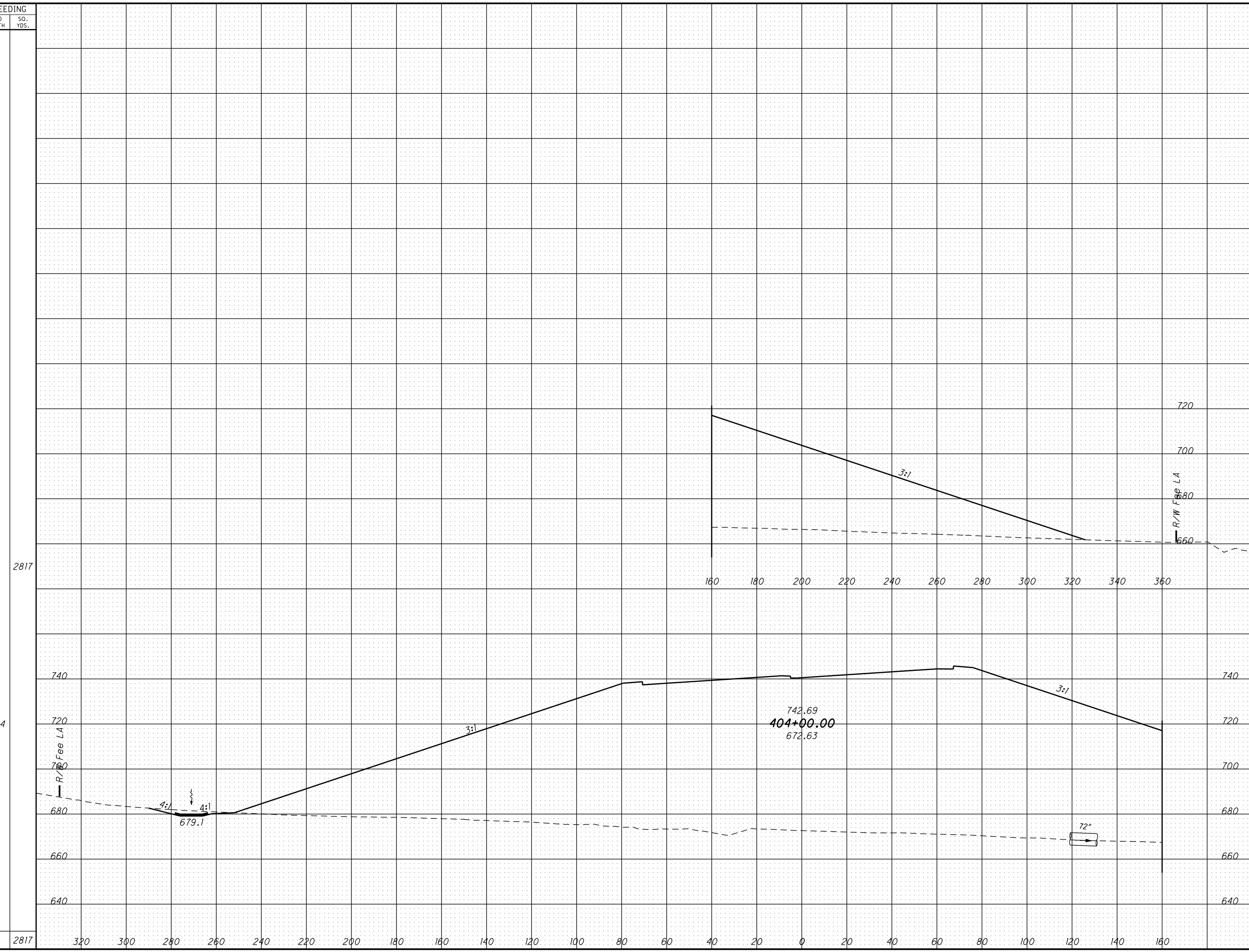
SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
2745							
483		68	23460	198	40584		
2550							
433		146	20371	207	35512		
5295		405	76096				

CROSS SECTIONS - SR823
STA. 403+00.00 TO STA. 403+50.00

SCI-823-6.81

USER: C:\hp\br; PLOT DATE: 9/15/2011 3:06:47 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD00000045878 /945x803.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
2817	
504	
2817	

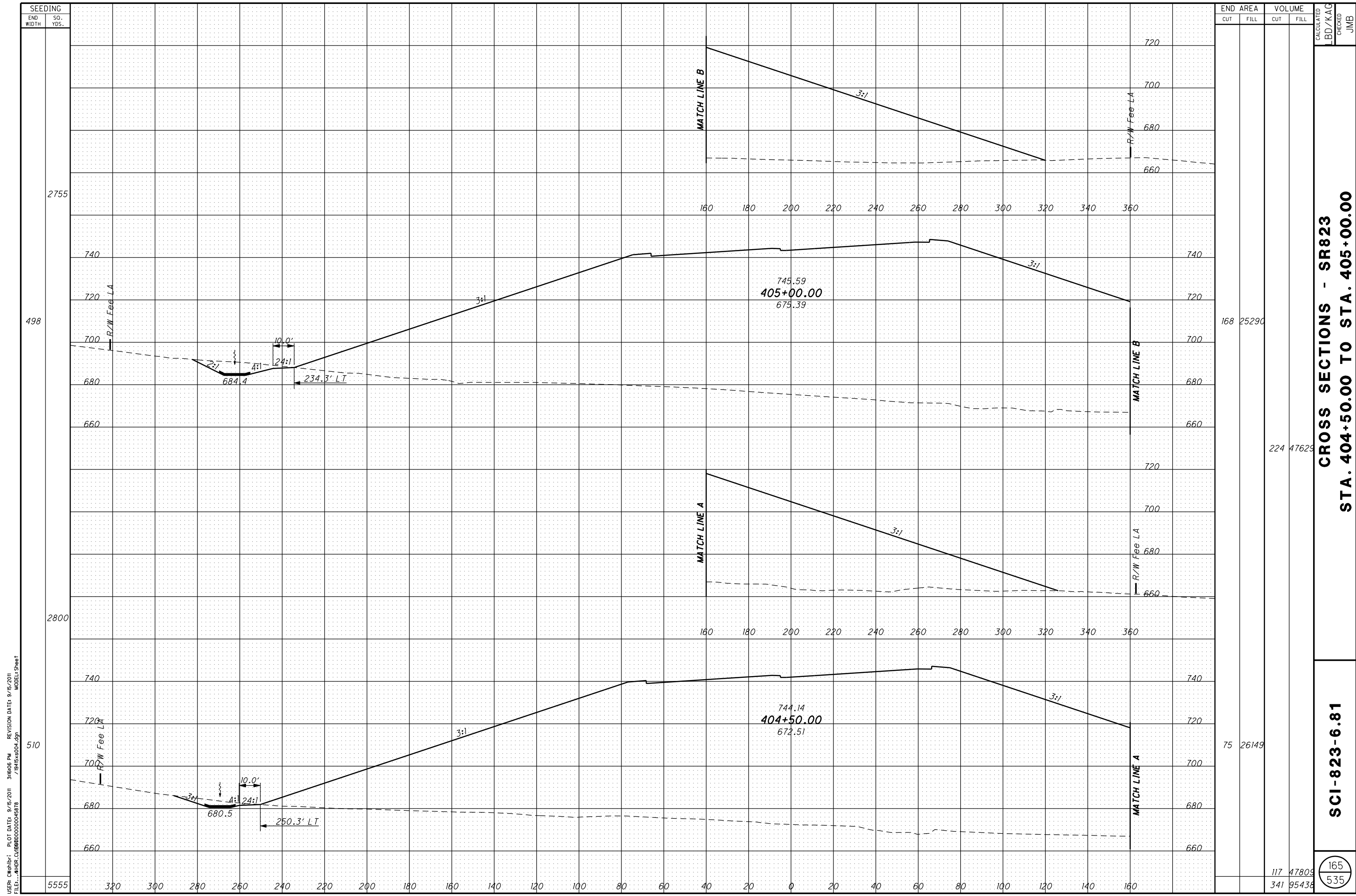


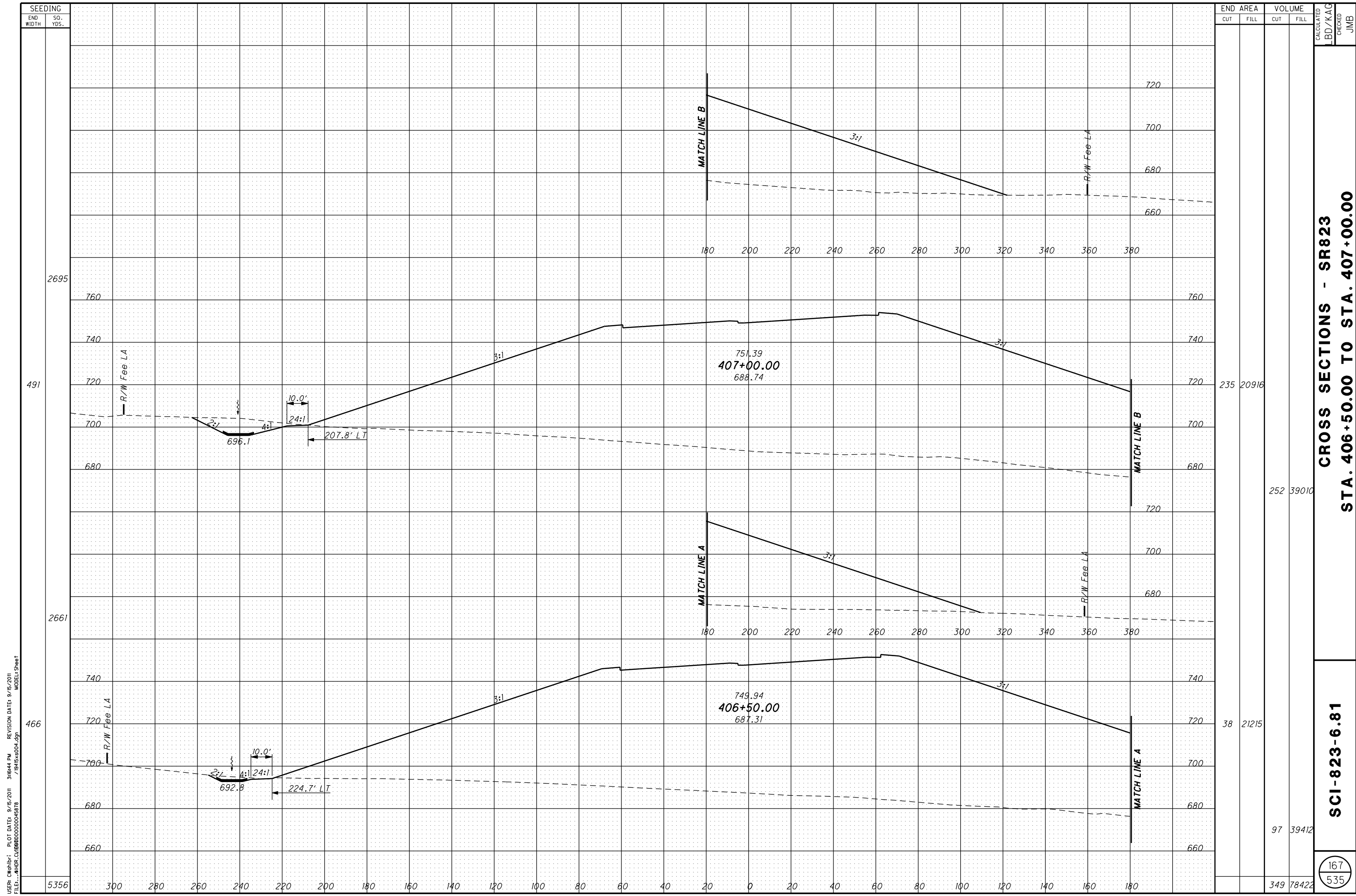
END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
51	25485	111	45319		
111	45319	111	45319		

CROSS SECTIONS - SR823
STA. 404+00.00 TO STA. 404+00.00

SCI-823-6.81

164
535





SEEDING	
END WIDTH	SO. YDS.
300	2695
280	491
260	2661
240	466
220	5356

END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
235	20916	252	39010		
38	21215	97	39412		
349	78422				

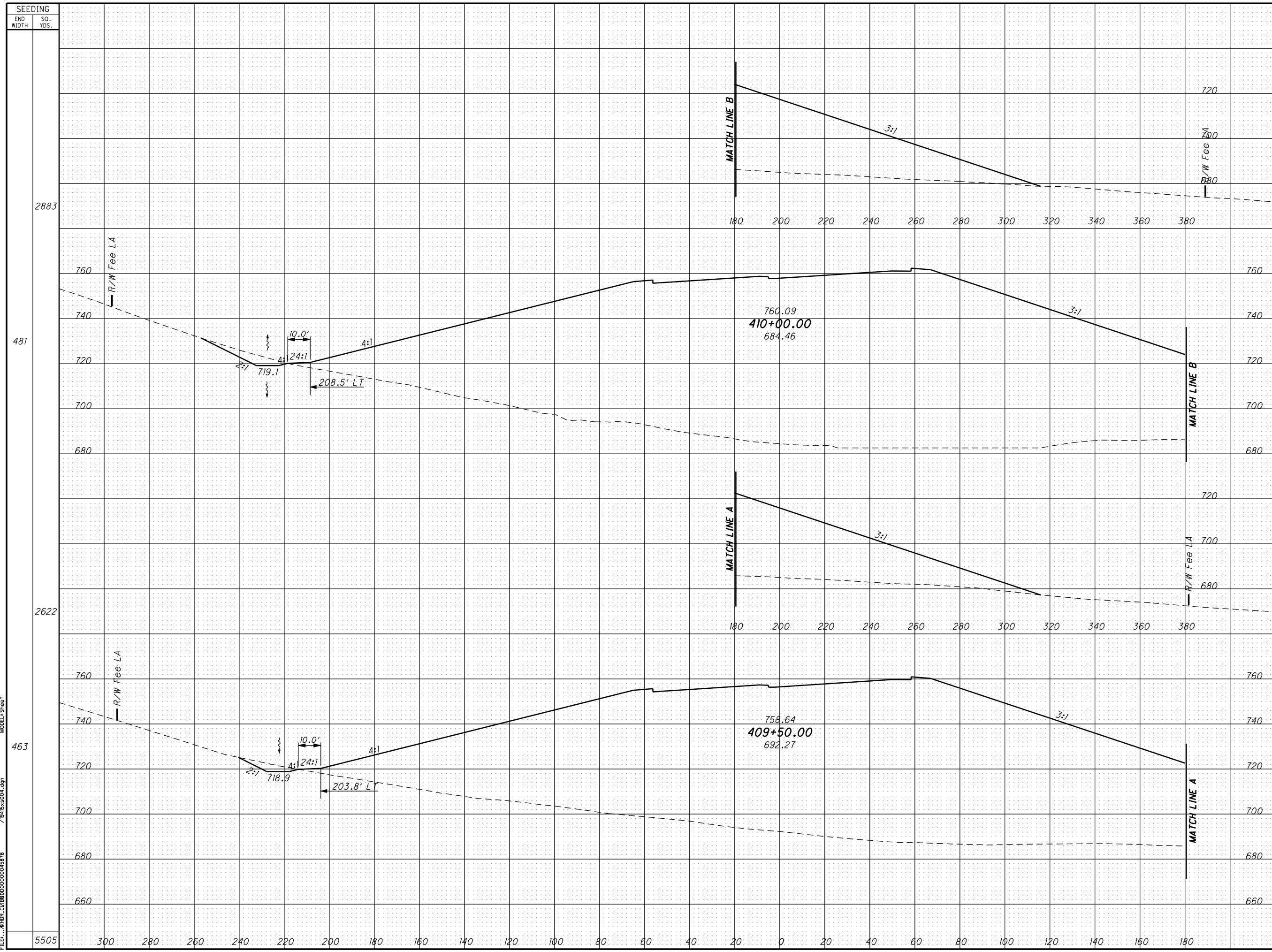
**CROSS SECTIONS - SR823
STA. 406+50.00 TO STA. 407+00.00**

SCI-823-6.81

167
535

USER: C:\hp\l... PLOT DATE: 9/15/2011 3:18:44 PM REVISION DATE: 9/15/2011
FILE: ... \HDR\C:\BDD\00000045878 MODEL1 Sheet

USER: cwhhbr; PLOT DATE: 9/15/2011 3:17:40 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD\00000045878_1945x504.dgn MODEL: Sheet



END STA	AREA		VOLUME	
	CUT	FILL	CUT	FILL
463	54	21291	88	39644
481	94	23689	137	41648
2883			225	81292

SCI-823-6.81

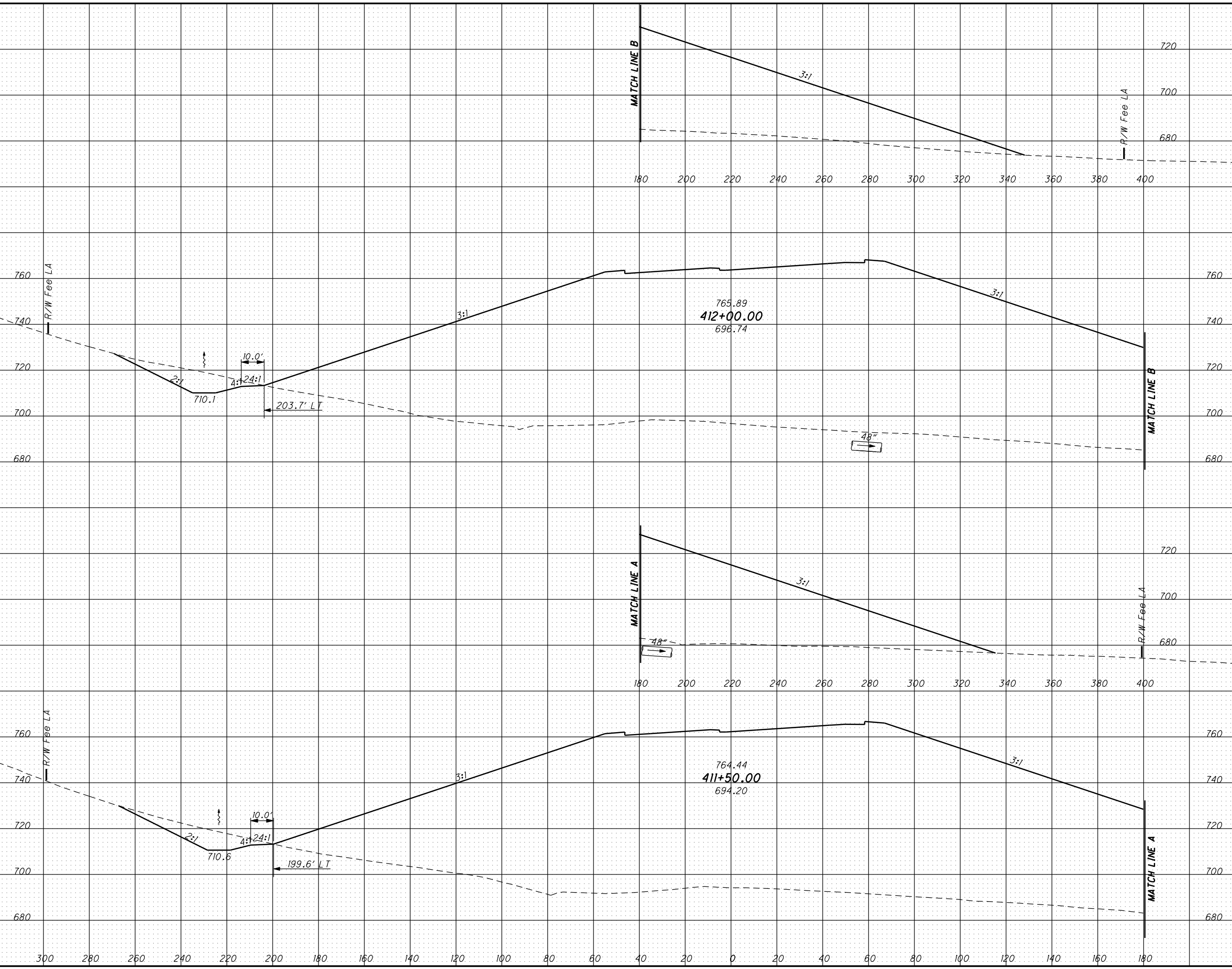
CROSS SECTIONS - SR823
STA. 409+50.00 TO STA. 410+00.00

CALCULATED: BD/KAG
 CHECKED: JMB

170
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:18:18 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
6045	528
543	3067
2978	

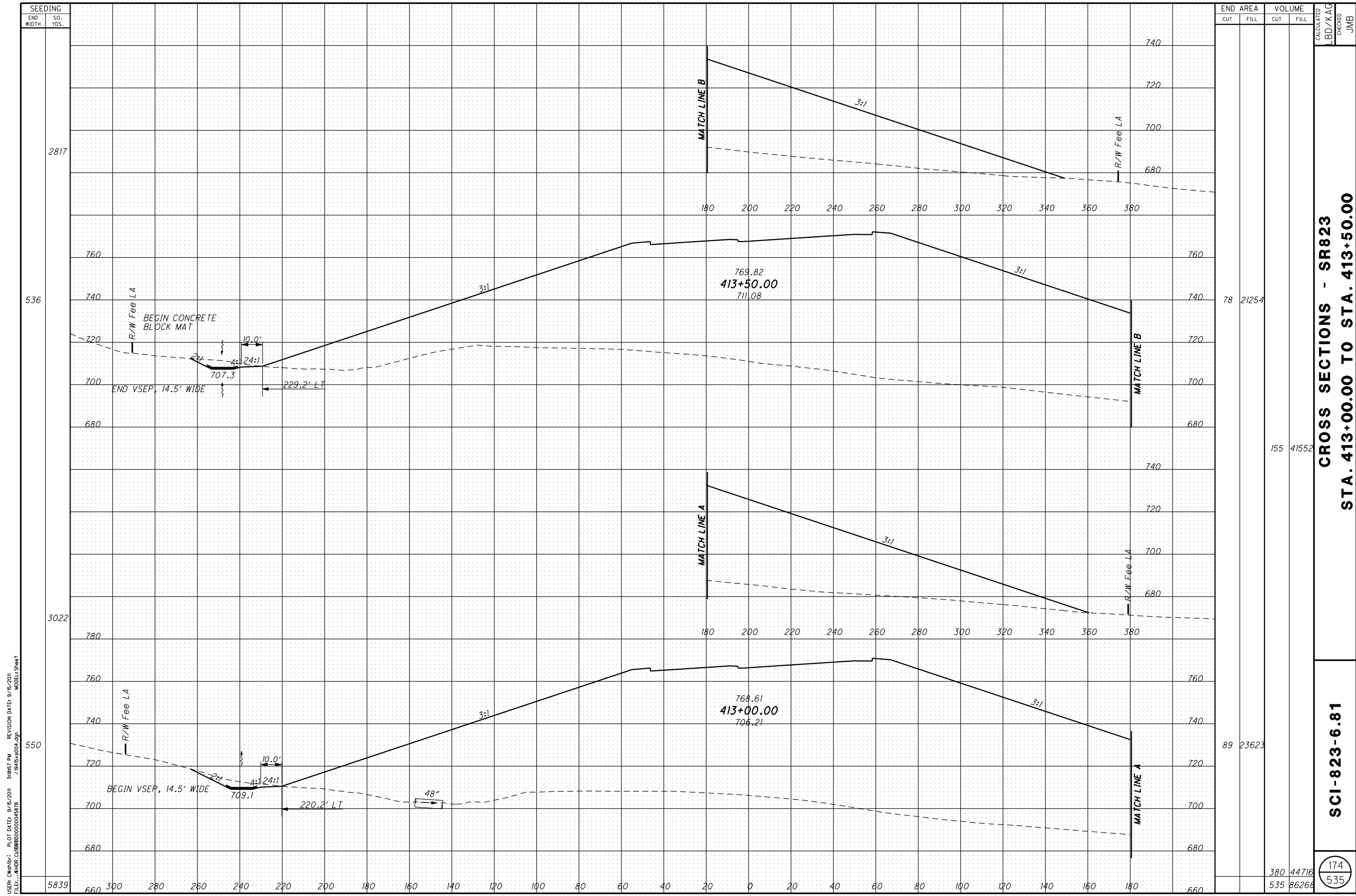


END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
320	24291	578	44845		
304	24141	473	46424		
		1051	91269		

CROSS SECTIONS - SR823
STA. 411+50.00 TO STA. 412+00.00

SCI-823-6.81

172
535



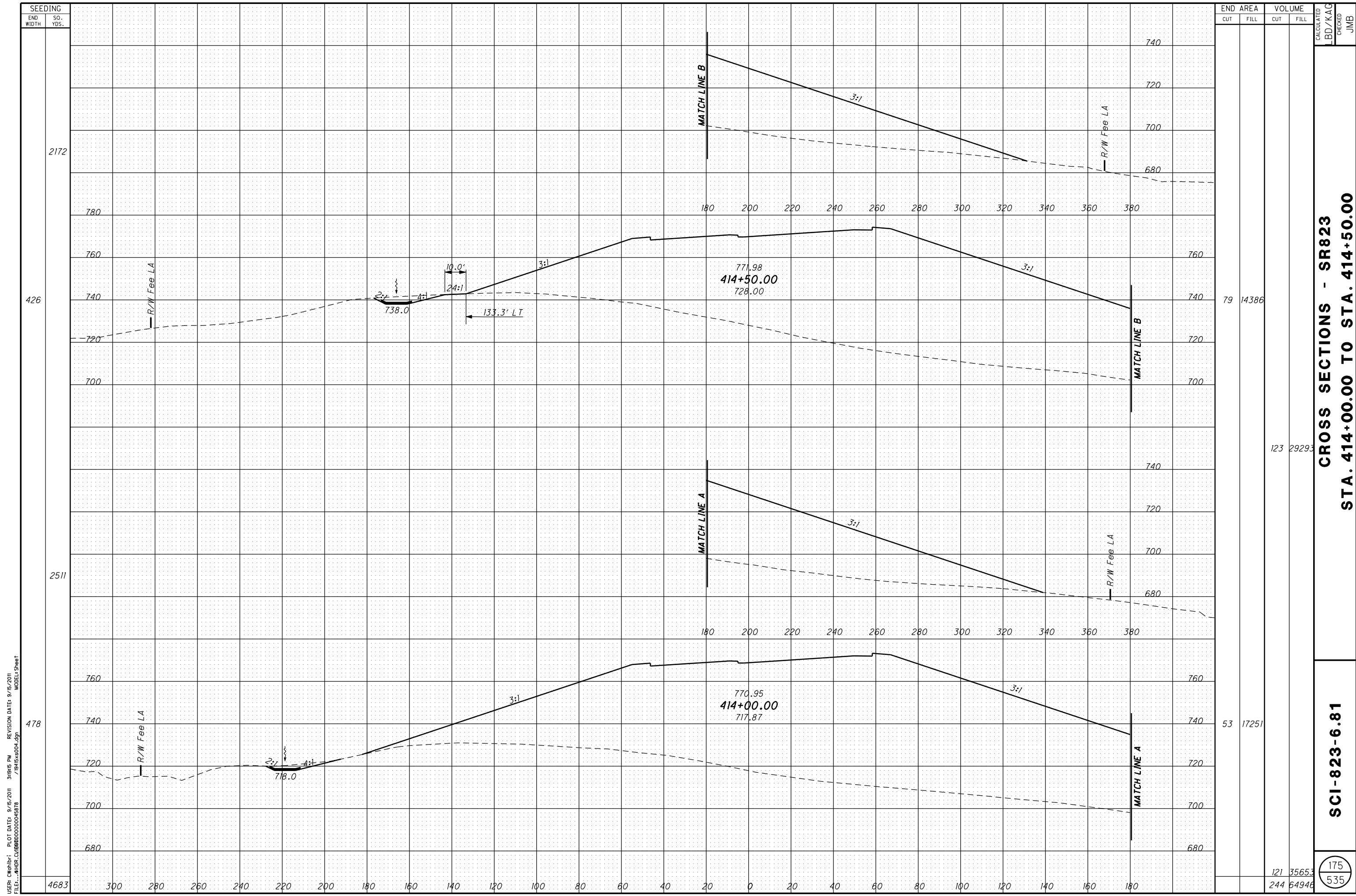
USER: cwhhbr; PLOT DATE: 9/15/2011 3:18:57 PM REVISION DATE: 9/15/2011
 FILE: \\HDR\CL\00000000045878 /1915x804.dgn MODEL: Sheet

END STA.	AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
	CUT	FILL	CUT	FILL		
5839						
536						
3022						
550						
78	21254		155	41552		
89	23623					
380	44716		535	86266		

CROSS SECTIONS - SR823
STA. 413+00.00 TO STA. 413+50.00

SCI-823-6.81

174
535



SEEDING	
END WIDTH	SO. YDS.
4683	2172
478	426
2511	

END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
79	14386	123	29293		
53	17251	121	35653		
		244	64946		

**CROSS SECTIONS - SR823
STA. 414+00.00 TO STA. 414+50.00**

SCI-823-6.81

175
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:18:16 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\800000000045878_7\8155s004.dgn MODEL: Sheet



SEEDING	
END WIDTH	SO. YDS.
3572	

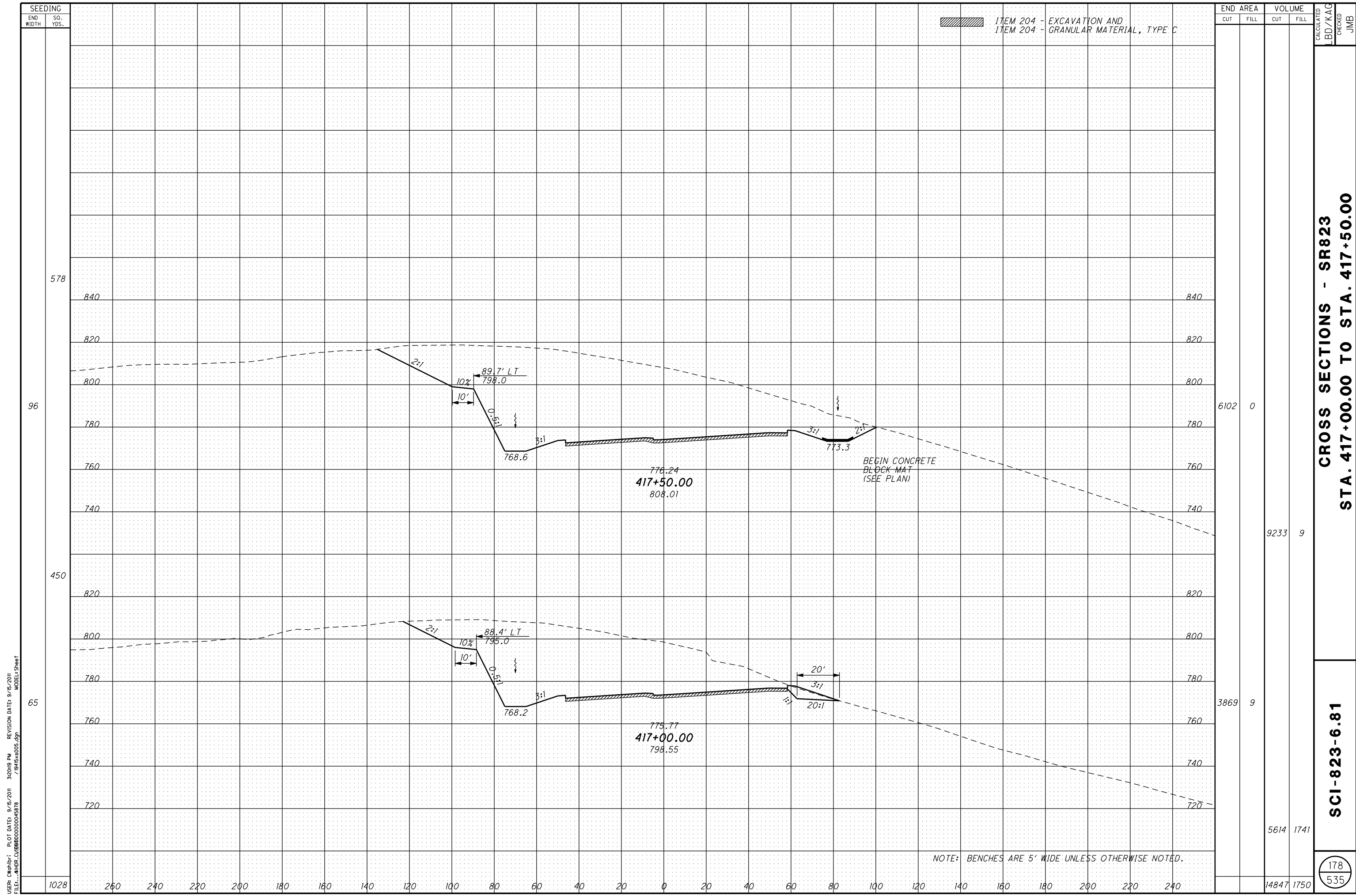
END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
192	7981	235	17971		
62	11427	131	23901		
		366	41872		

**CROSS SECTIONS - SR823
STA. 415+00.00 TO STA. 415+50.00**

SCI-823-6.81

176
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:18:40 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\00000000045878_7\915x505.dgn MODEL: Sheet



SEEDING	
END WIDTH	SO. YDS.
1028	
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6102	0	9233	9
3869	9	5614	1741
		14847	1750

CALCULATED
LD/KAG
CHECKED
JMB

**CROSS SECTIONS - SR823
STA. 417+00.00 TO STA. 417+50.00**

SCI-823-6.81

178
535

USER: cwhhbr; PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
FILE: \\HDR\CL\00000000045878_7\945x505.dgn MODEL Sheet

SEEDING

END WIDTH	SO. YDS.
1122	

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME	CALCULATED	CHECKED
10938	0		
18017	0		
8521	0		
13539	0		
31556	0		

CROSS SECTIONS - SR823
 STA. 418+00.00 TO STA. 418+50.00
 179
 535

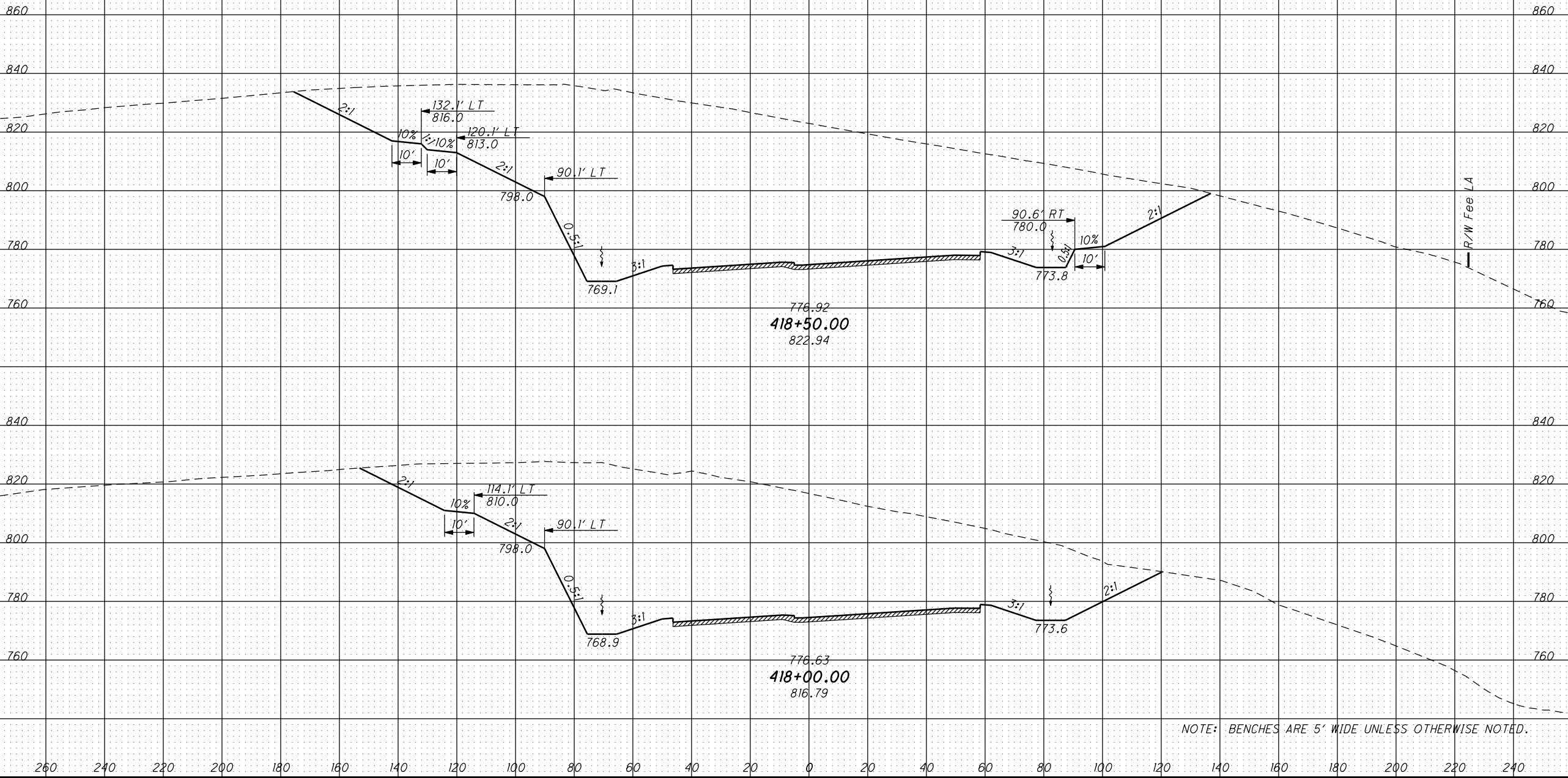
USER: C:\p\h\h\... PLOT DATE: 9/16/2011 3:20:39 PM REVISION DATE: 9/15/2011
 FILE: ... \9415x5005.dgn MODEL: Sheet

533

99

589

111



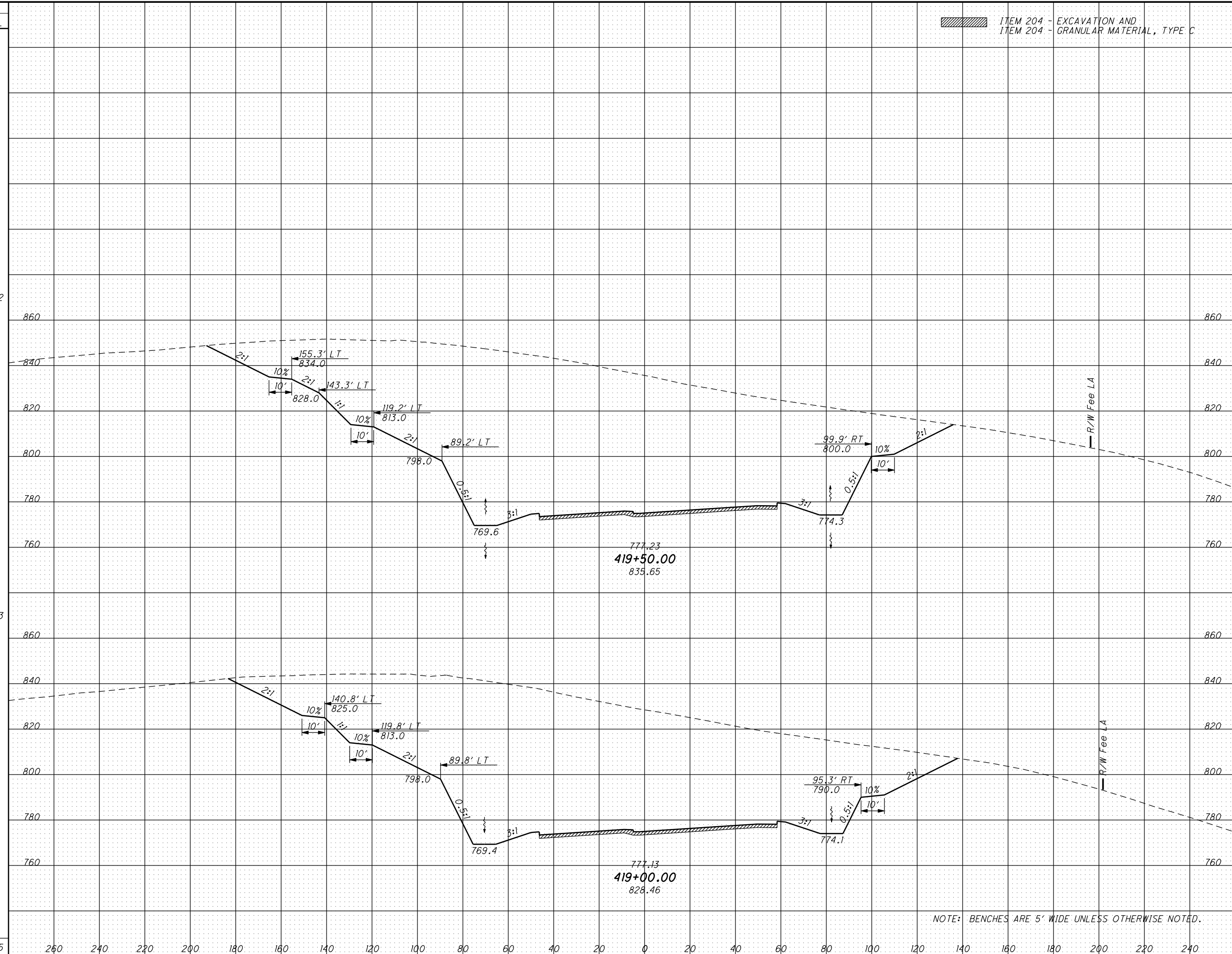
418+50.00
822.94

418+00.00
816.79

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING

END WIDTH	SO. YDS.
955	



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME				
		CUT	FILL	CUT	FILL
14109	0				
12438	0				
46225	0				

CALCULATED
 LB/KAG
 CHECKED
 JMB

**CROSS SECTIONS - SR823
 STA. 419+00.00 TO STA. 419+50.00**

SCI-823-6.81

180
 535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:20:58 PM REVISION DATE: 9/15/2011
 FILE: \\hdrc\c\8000000000045878 MODEL1 Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING

END WIDTH SO. YDS.

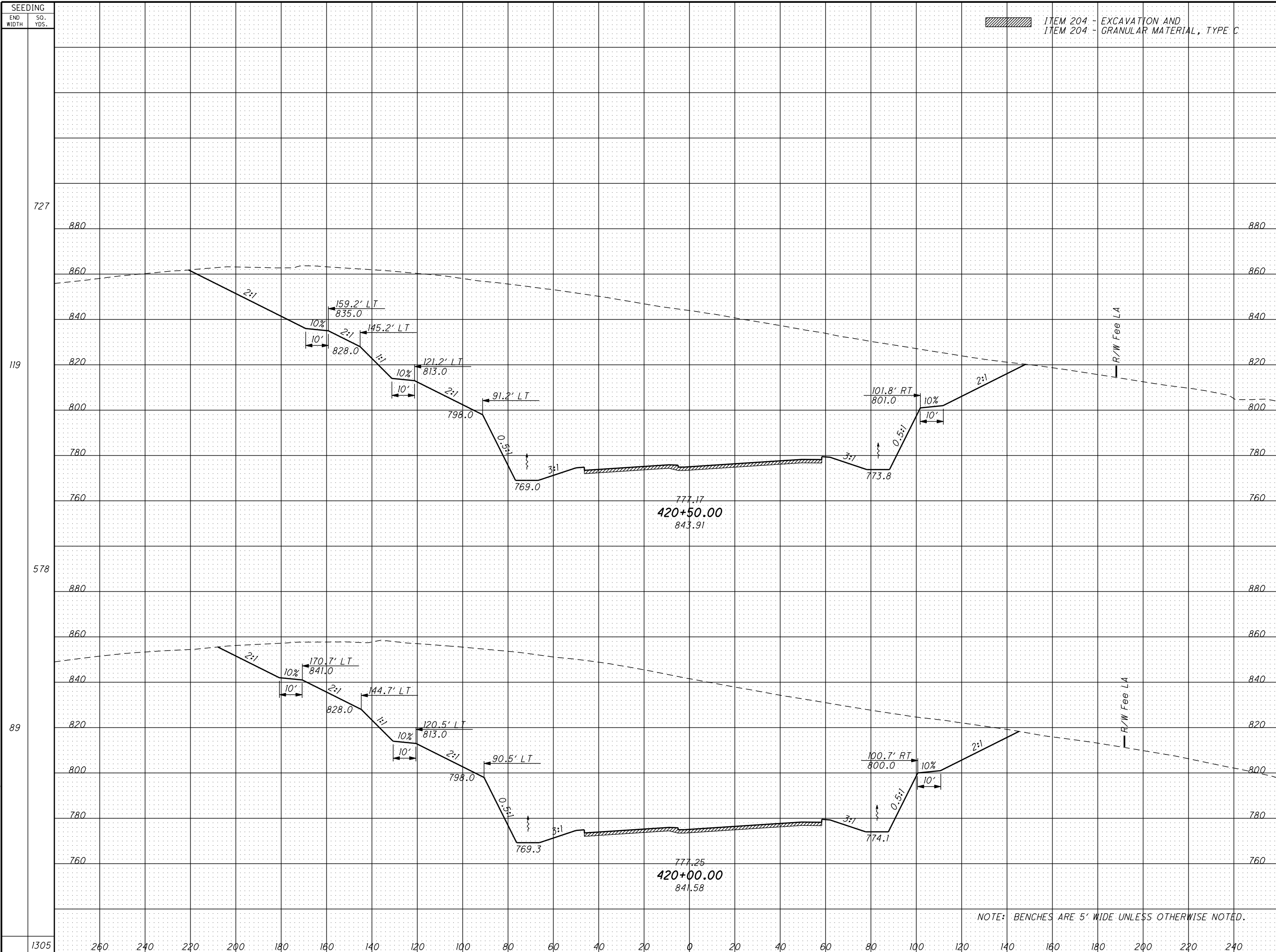
ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
17490	0	31262	0		
16273	0	28131	0		
59393	0				

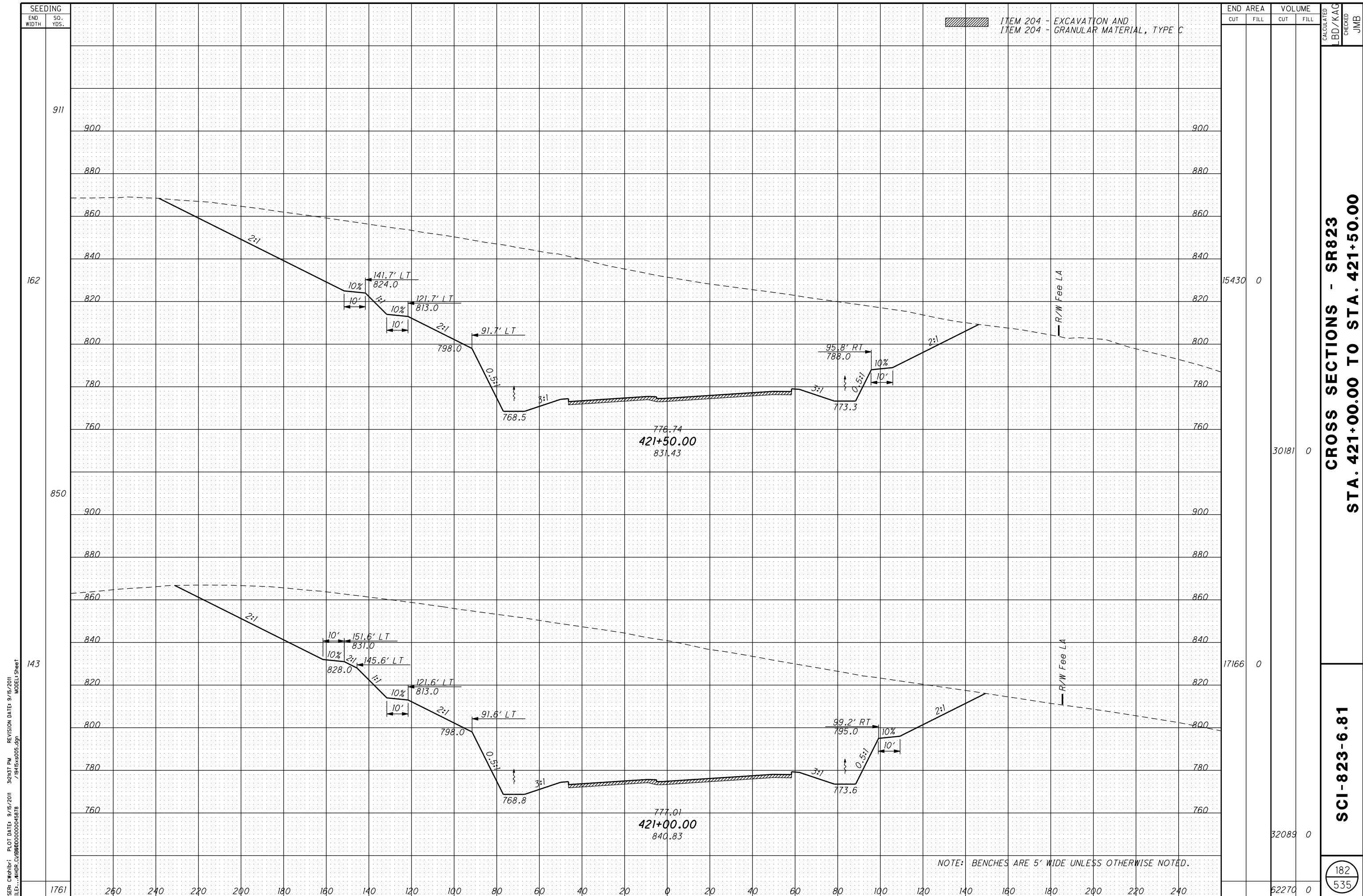
CROSS SECTIONS - SR823
STA. 420+00.00 TO STA. 420+50.00

SCI-823-6.81

181
535



USER: C:\p1\h1\p1... PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
FILE: ... \SR823\SR823.dgn MODEL: Sheet



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED	CHECKED
		CUT	FILL	CUT	FILL		
1761	260						
143	240						
162	220						
911	200						
	180						
	160						
	140						
	120						
	100						
	80						
	60						
	40						
	20						
	0						
	20						
	40						
	60						
	80						
	100						
	120						
	140						
	160						
	180						
	200						
	220						
	240						
	260						
				15430	0		
						30181	0
				17166	0		
						32089	0
						62270	0

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR823
STA. 421+00.00 TO STA. 421+50.00

SCI-823-6.81

182
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:29:37 PM; REVISION DATE: 9/15/2011
FILE: \\hdrc\c\8000000000045878_7\845x805.dgn MODEL Sheet

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
LBD/KAG
CHECKED
JMB

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

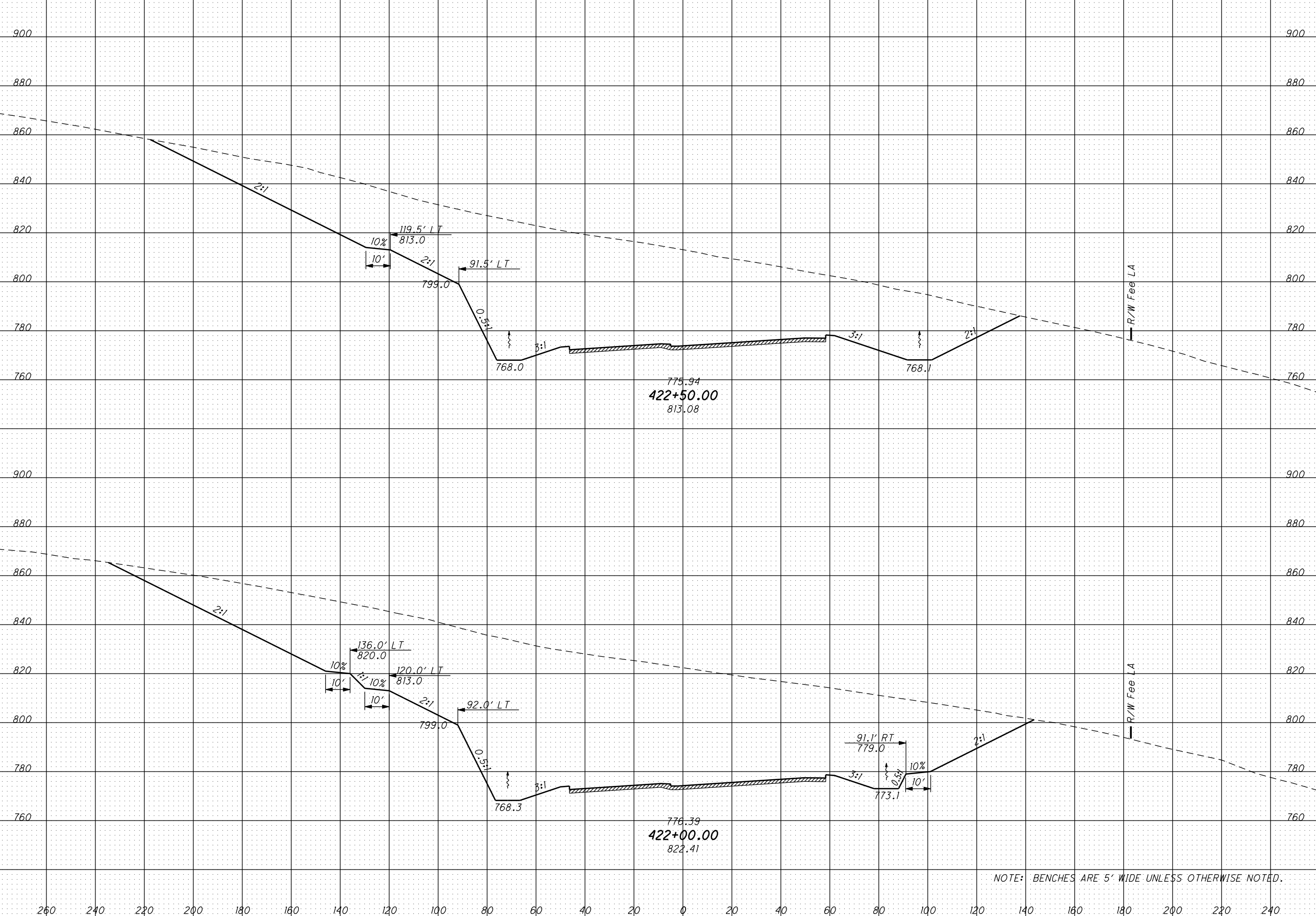
1033

195

1006

166

2039



END AREA	VOLUME		
CUT	FILL	CUT	FILL
9945	0	21047	0
12786	0	26126	0
47173	0		

CROSS SECTIONS - SR823
STA. 422+00.00 TO STA. 422+50.00

SCI-823-6.81

183
535

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

USER: cwhhbr; PLOT DATE: 9/16/2011 3:29:57 PM REVISION DATE: 9/15/2011
FILE: \\hdrc\c\800000000045878_7\845x805.dgn MODEL: Sheet

USER: cwhhbr; PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD000000045878_7\945x505.dgn MODEL: Sheet

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
928				
178	3669	1206		
989				
176	6897	0		
1917	25377	1117		

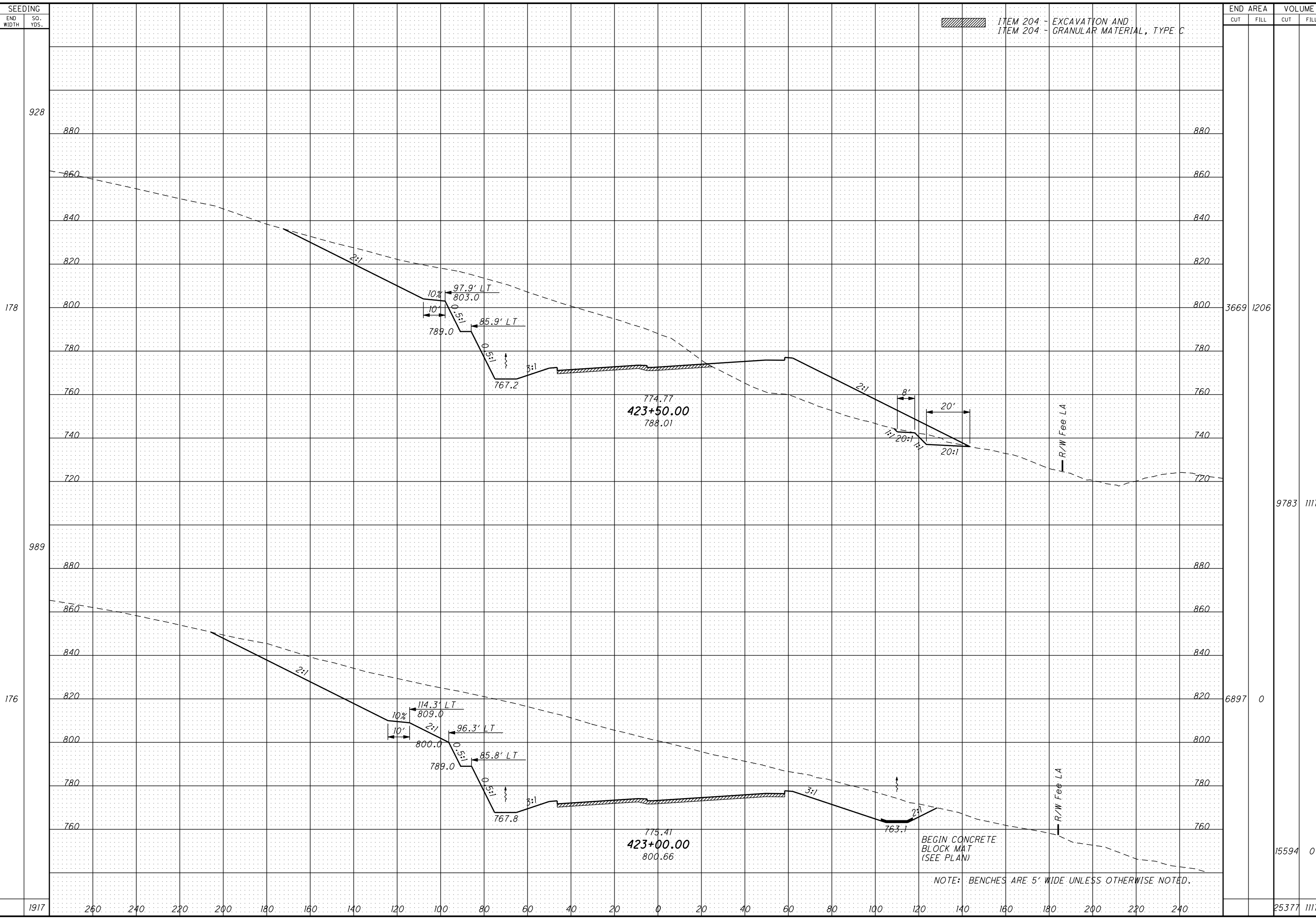
ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

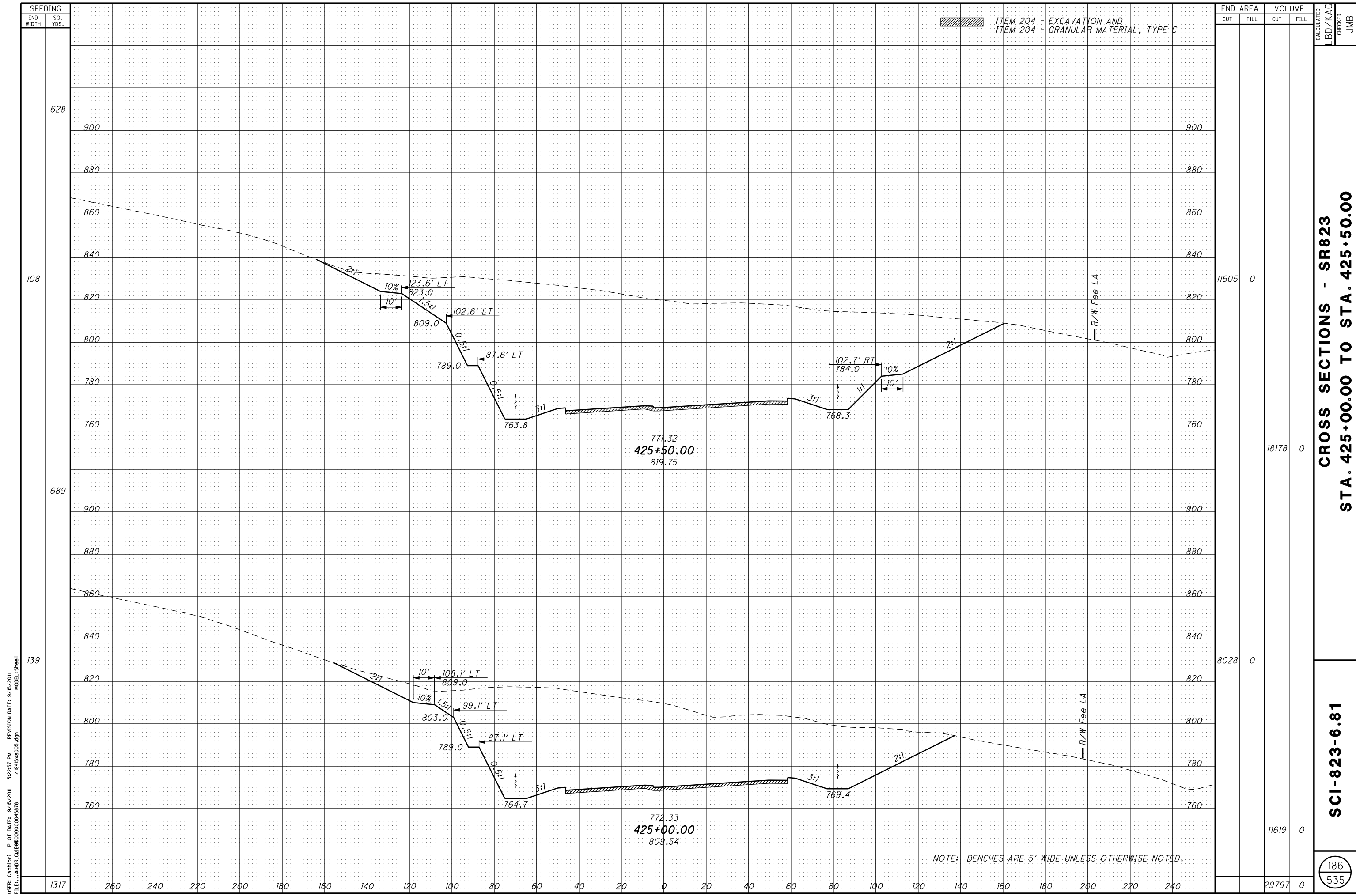
CALCULATED
 LB/KAG
 CHECKED
 JMB

**CROSS SECTIONS - SR823
 STA. 423+00.00 TO STA. 423+50.00**

SCI-823-6.81

184
 535





ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
11605	0	0		
18178	0	0		
8028	0	0		
11619	0	0		
29797	0	0		

CROSS SECTIONS - SR823
STA. 425+00.00 TO STA. 425+50.00

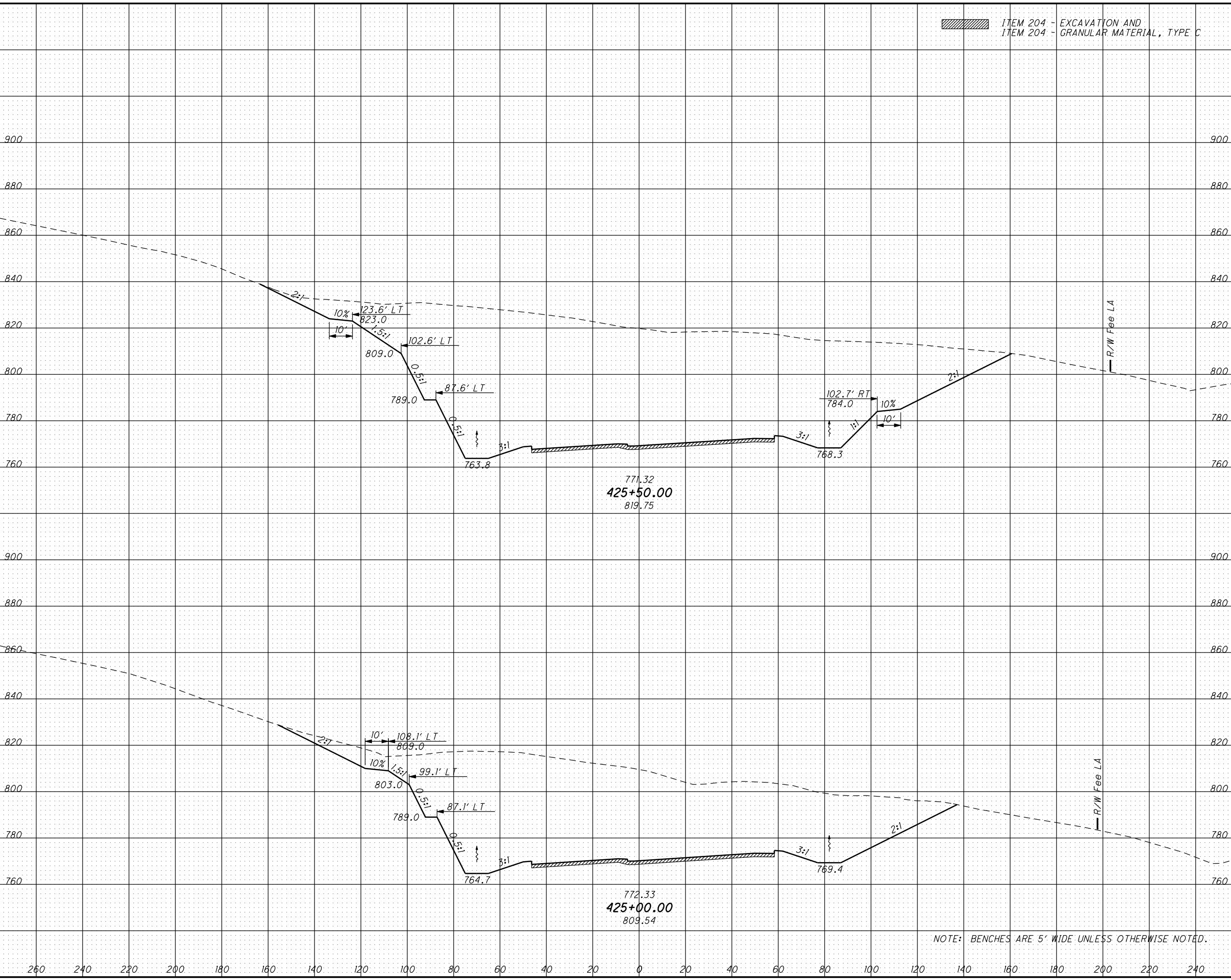
SCI-823-6.81

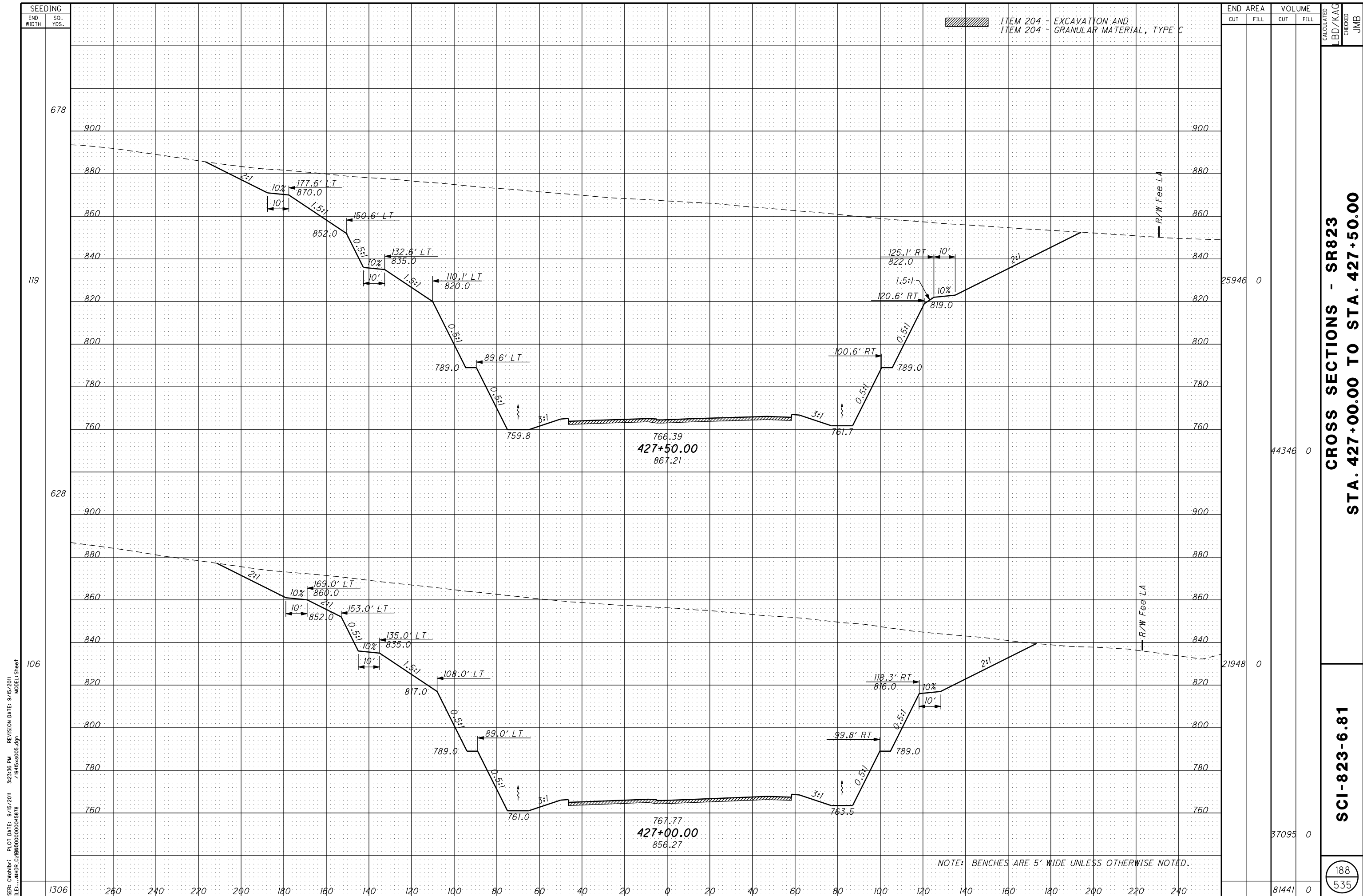
186
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:22:57 PM REVISION DATE: 9/15/2011
FILE: \\hdh\c\p\0000000045878_7\845x505.dgn MODEL Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING
END WIDTH SQ. YDS.
628
108
689
139
1317





ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

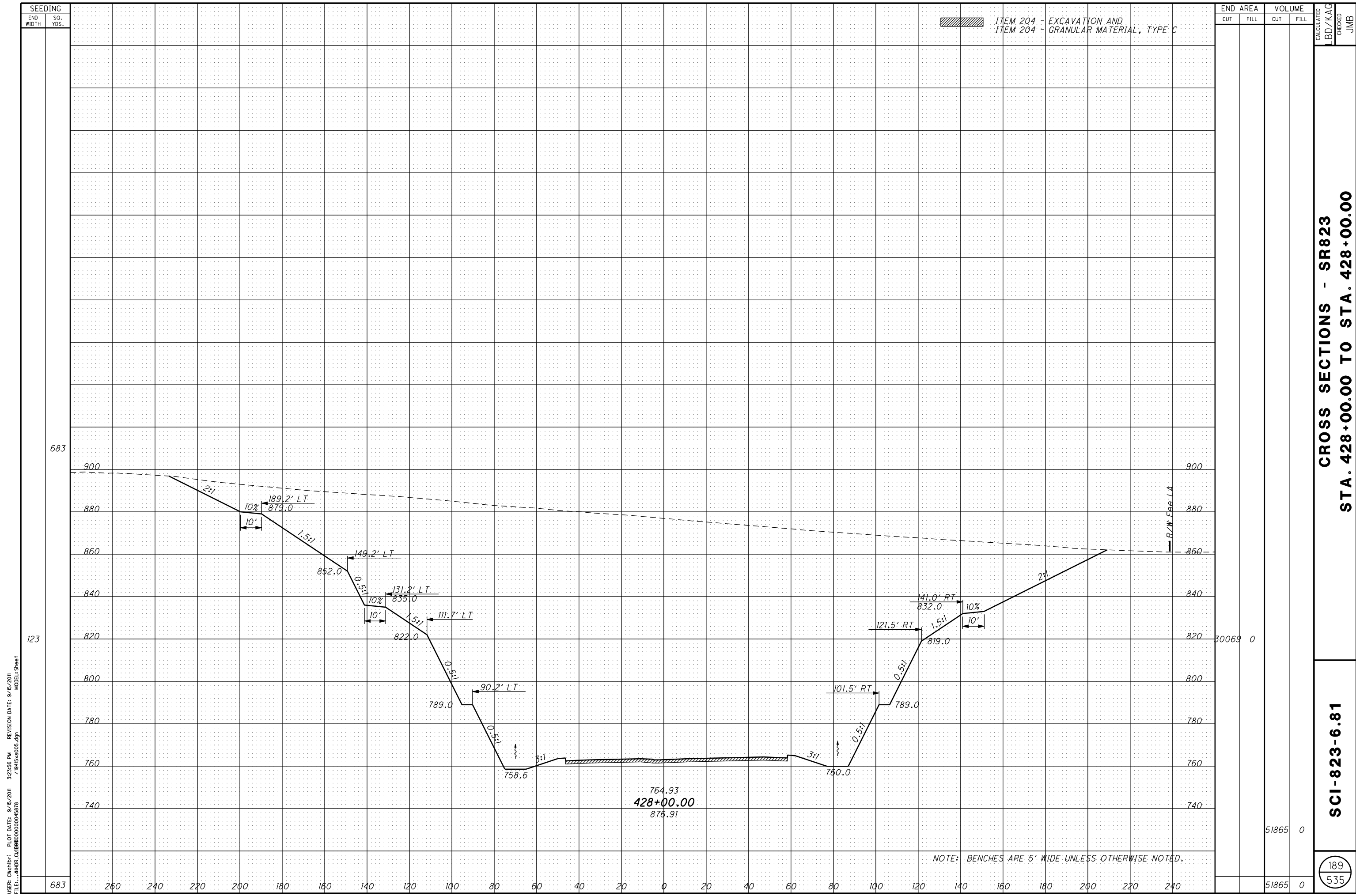
END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
25946	0	0		
44346	0	0		
21948	0	0		
37095	0	0		
81441	0	0		

**CROSS SECTIONS - SR823
STA. 427+00.00 TO STA. 427+50.00**

SCI-823-6.81

USER: cwhhbr; PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
FILE: \\hdrc\c\8000000000045878 MODEL1 Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
683							
123		30069	0				
683		51865	0	51865	0		

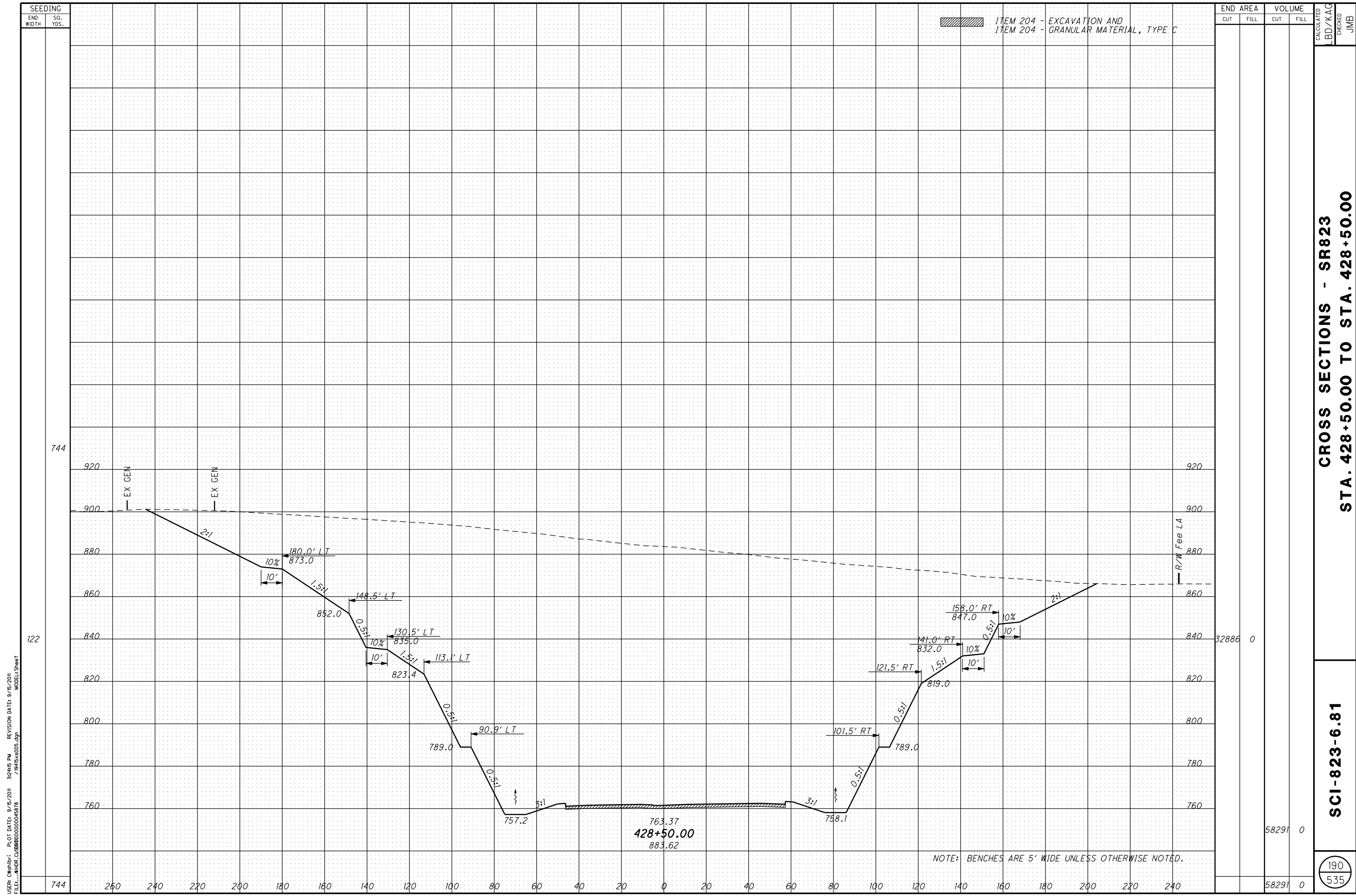
CROSS SECTIONS - SR823
STA. 428+00.00 TO STA. 428+00.00

SCI-823-6.81

189
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:23:56 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\00000000045878_7\945x505.dgn MODEL1 Sheet

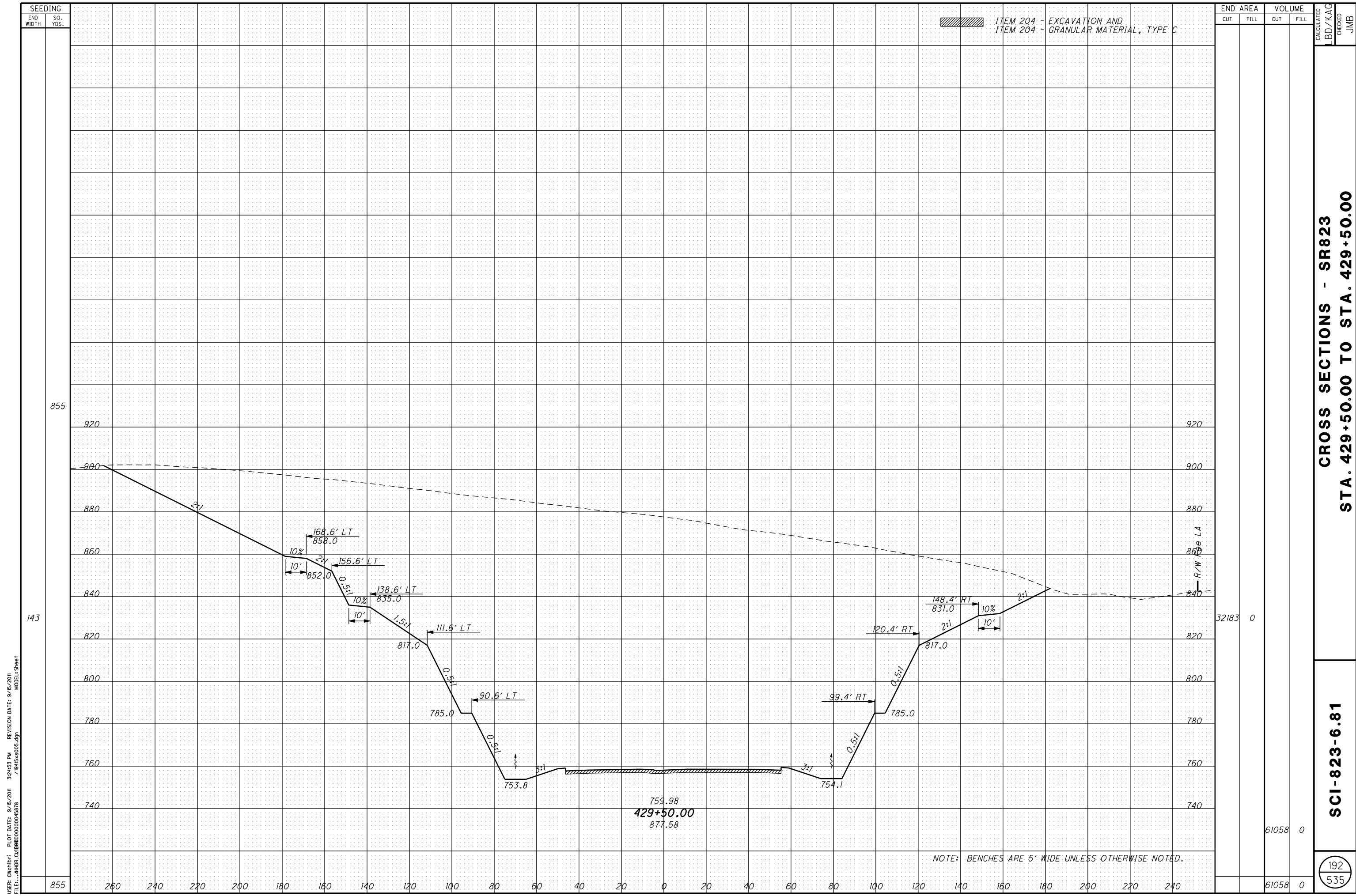
NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



USER: cwhhbr; PLOT DATE: 9/16/2011 3:24:15 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD\00000045878_7\9415x805.dgn MODEL1 Sheet

CROSS SECTIONS - SR823
 STA. 428+50.00 TO STA. 428+50.00

SCI-823-6.81



USER: cwhhbr; PLOT DATE: 9/16/2011 3:24:53 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c\p\0000000045878_7\945x805.dgn MODEL: Sheet

CROSS SECTIONS - SR823
 STA. 429+50.00 TO STA. 429+50.00

SCI-823-6.81

192
 535



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED LB/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
817							
900							
880							
860							
840							
820							
800							
780							
760							
740							
817							
				22468	0		
				44717	0		
				44717	0		

USER: cwhhbr; PLOT DATE: 9/16/2011 3:25:50 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c\00000000045878 MODEL1 Sheet

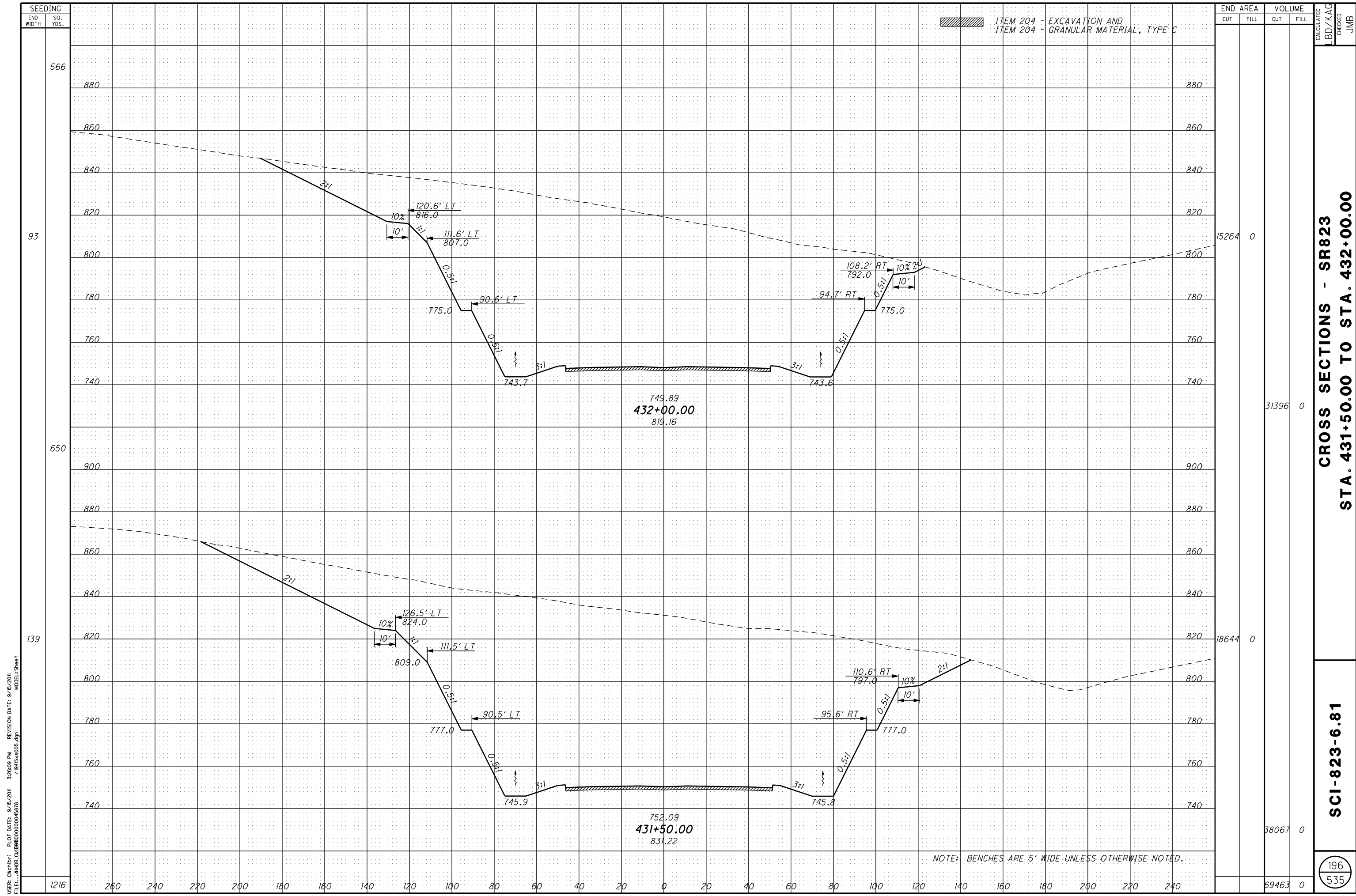
754.21
 431+00.00
 840.66

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR823
 STA. 431+00.00 TO STA. 431+00.00

SCI-823-6.81

195
 535



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
566							
93		15264	0	31396	0		
650							
139		18644	0	38067	0		
1216		69463	0				

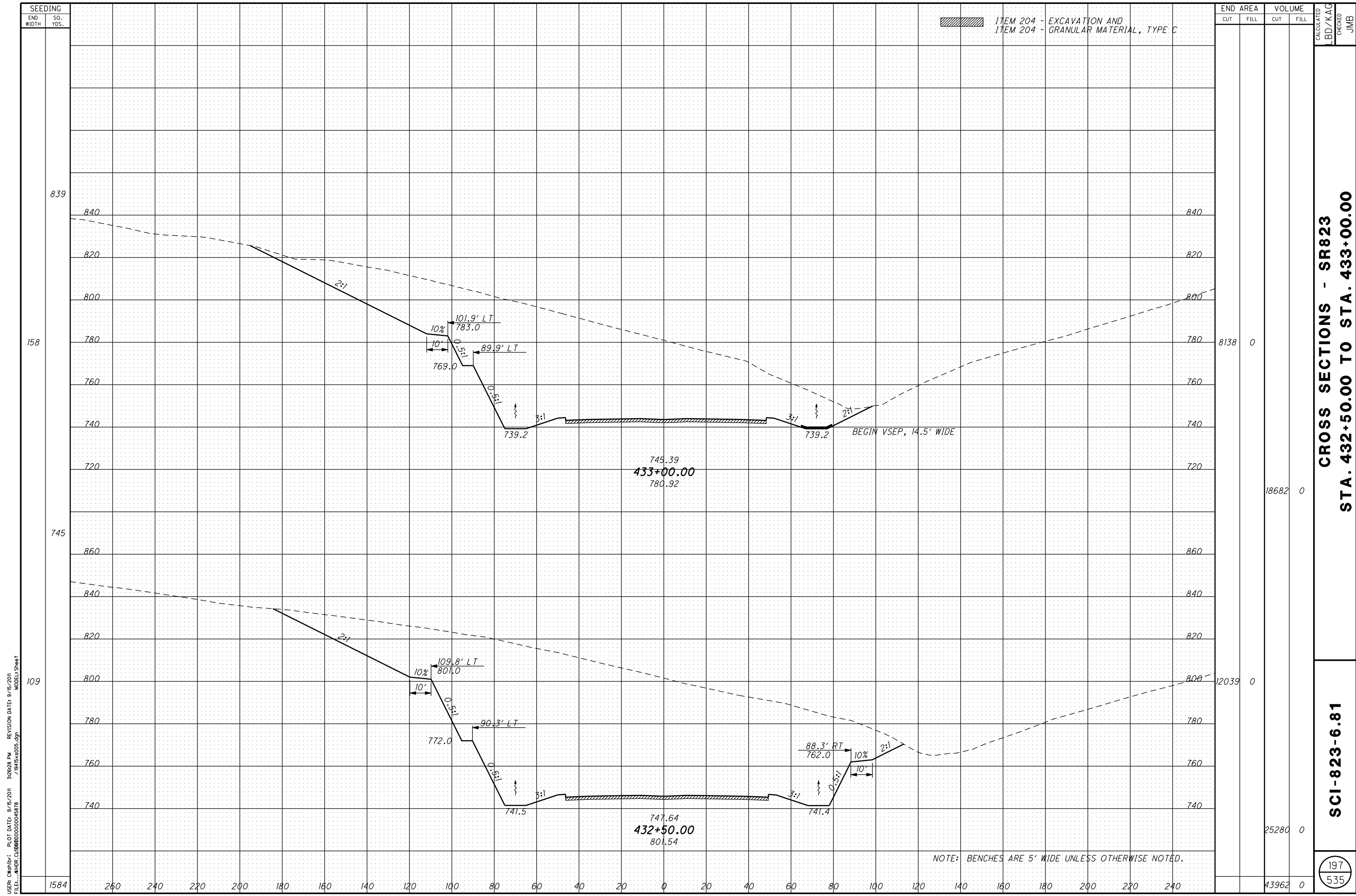
CROSS SECTIONS - SR823
STA. 431+50.00 TO STA. 432+00.00

SCI-823-6.81

196
535

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

USER: cwhhbr; PLOT DATE: 9/16/2011 3:26:09 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878 MODEL1 Sheet



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END STA	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
839						
158						
745						
109	8138	0	18682	0		
1584	43962	0	25280	0		

CROSS SECTIONS - SR823
STA. 432+50.00 TO STA. 433+00.00

SCI-823-6.81

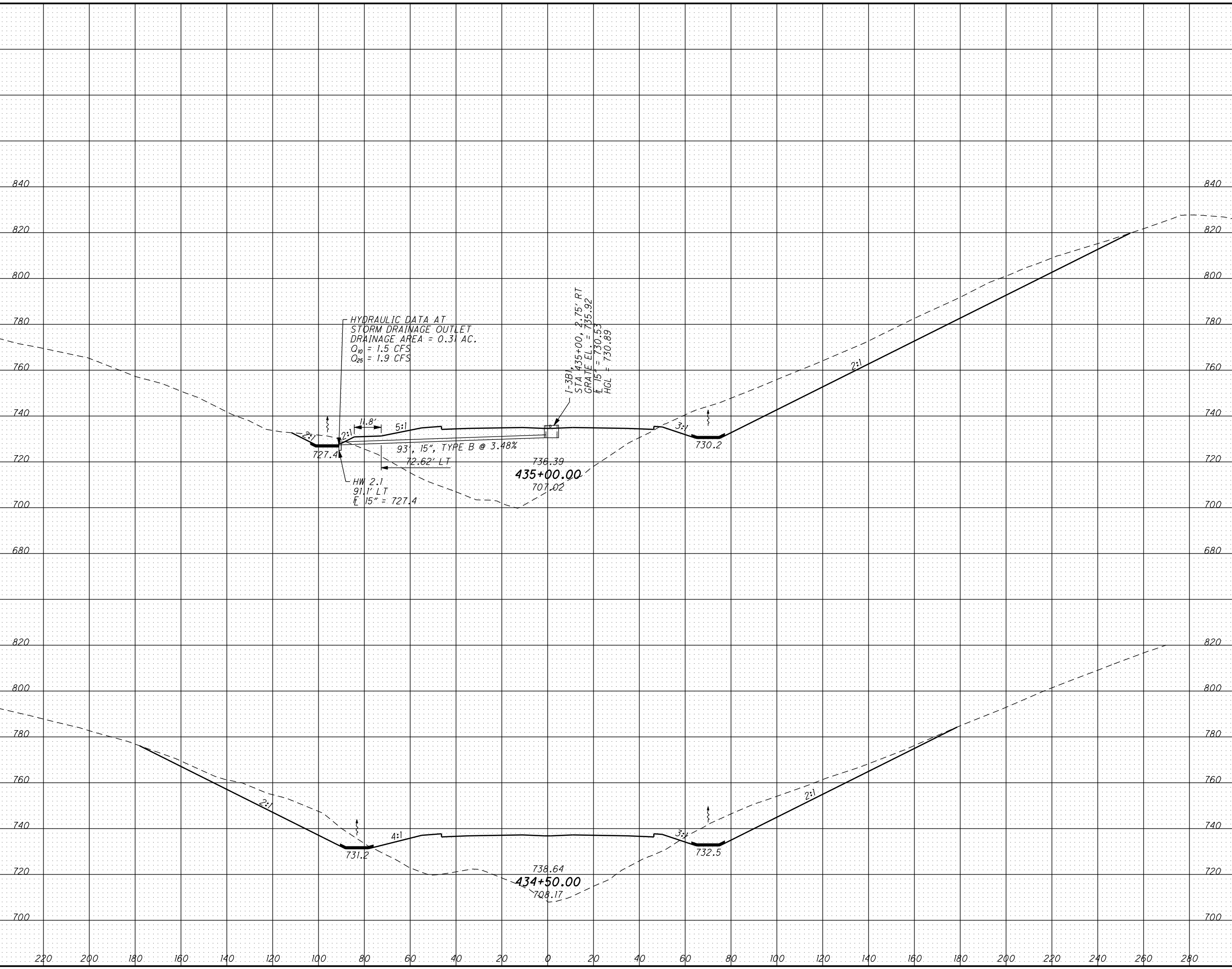
197
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:26:28 PM REVISION DATE: 9/15/2011
FILE: \\hdrc\c\80000000\45878_7\845x505.dgn MODEL Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

USER: C:\hp\l... PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: ... \HDR\C:\000000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
3505	1861
220	300
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	
260	
280	
291	1644
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	
260	
280	



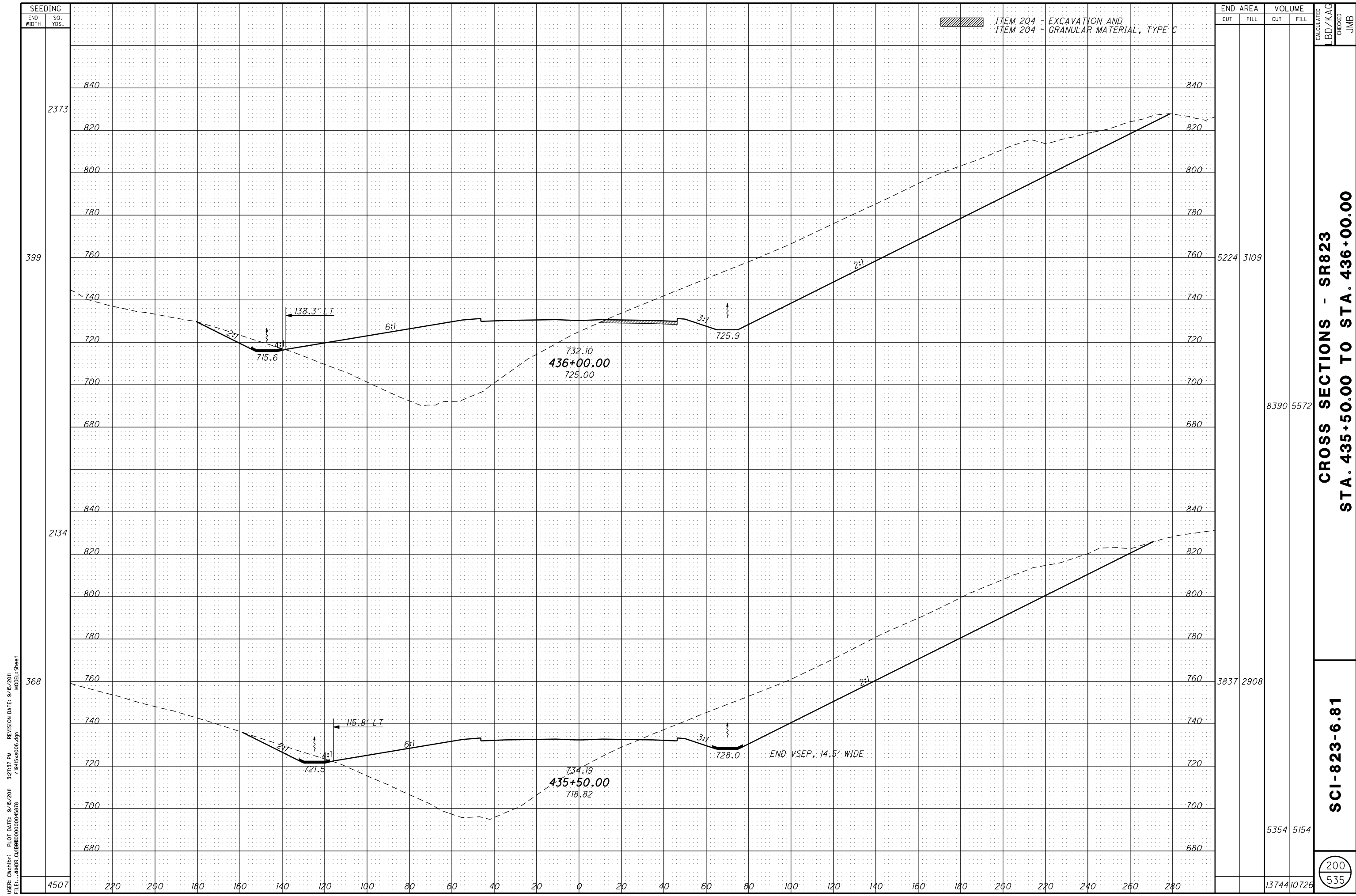
END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1861	1946	2658		
300			2952	4487
1644	1243	2187		
291			2632	3041
3505	5584	7528		

CALCULATED
 BD/KAG
 CHECKED
 JMB

CROSS SECTIONS - SR823
STA. 434+50.00 TO STA. 435+00.00

SCI-823-6.81

199
 535

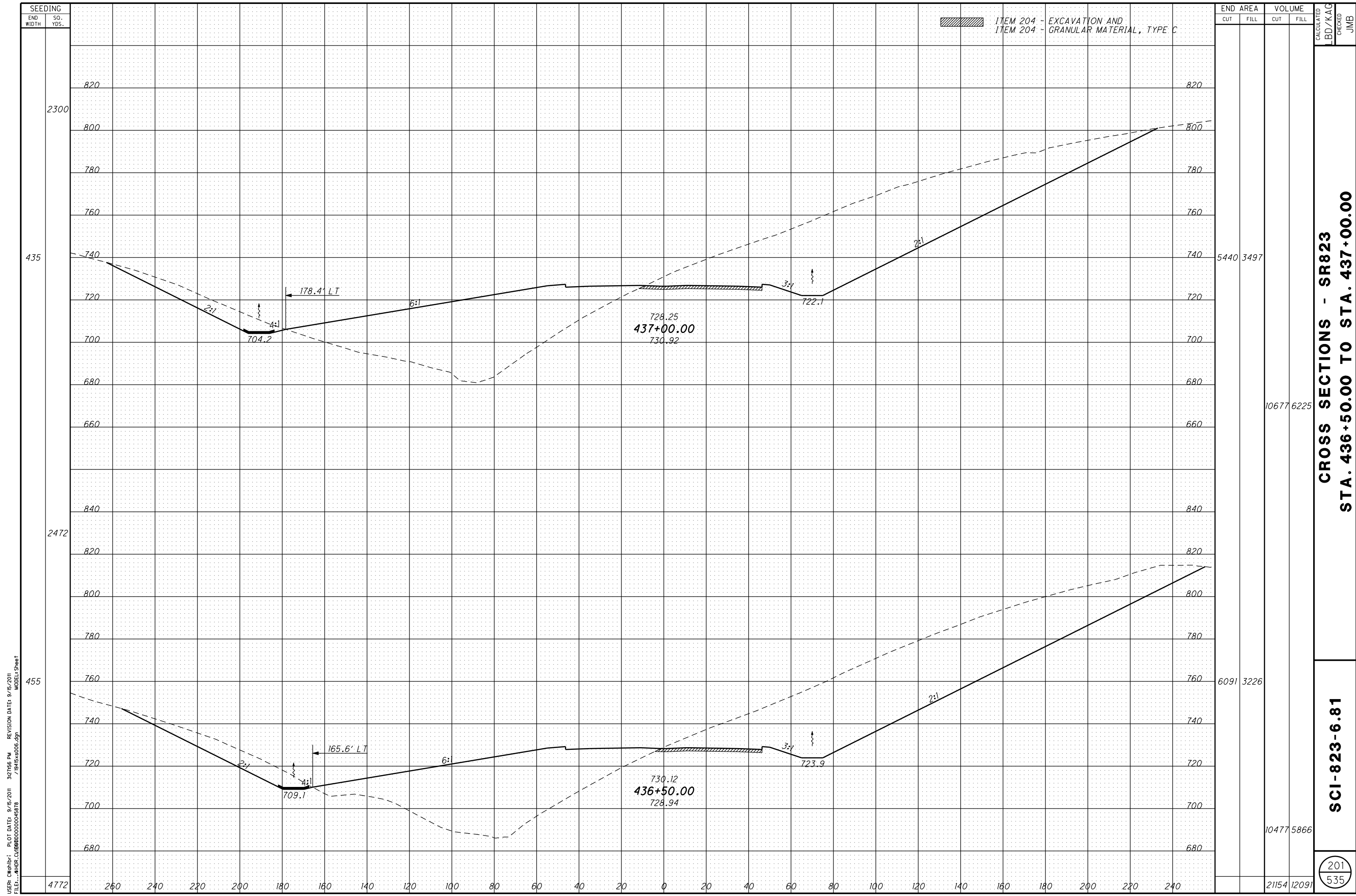


USER: cwhhbr; PLOT DATE: 9/16/2011 REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD\00000045878_1945x806.dgn MODEL Sheet

**CROSS SECTIONS - SR823
 STA. 435+50.00 TO STA. 436+00.00**

SCI-823-6.81

200
535



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

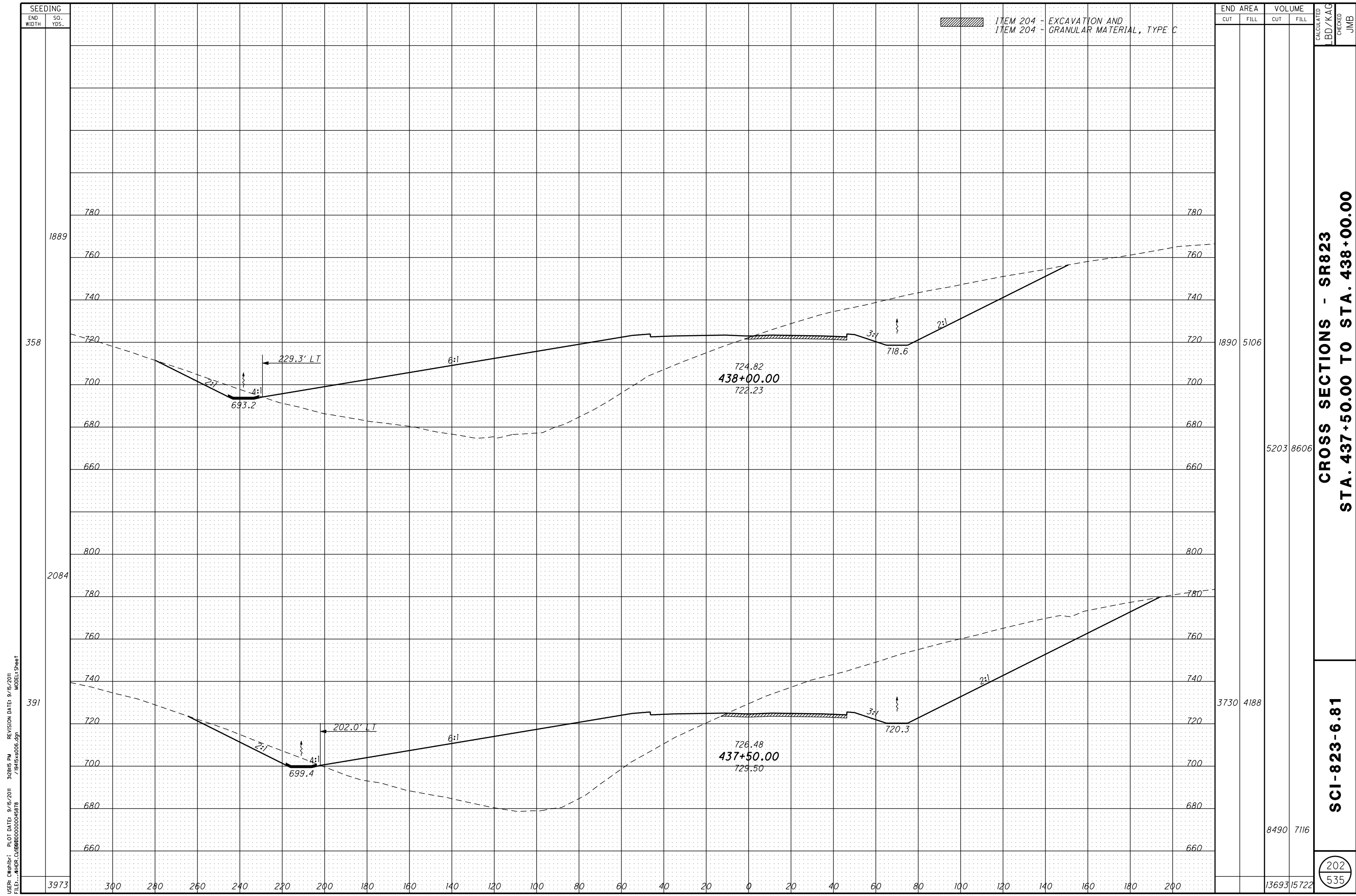
SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
4772	2300	5440	3497	10677	6225		
455	2472	6091	3226	10477	5866		
		21154	12091				

CROSS SECTIONS - SR823
STA. 436+50.00 TO STA. 437+00.00

SCI-823-6.81

201
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:27:56 PM REVISION DATE: 9/15/2011
FILE: \\HDD\CL\00000000045878_1\945x806.dgn MODEL Sheet



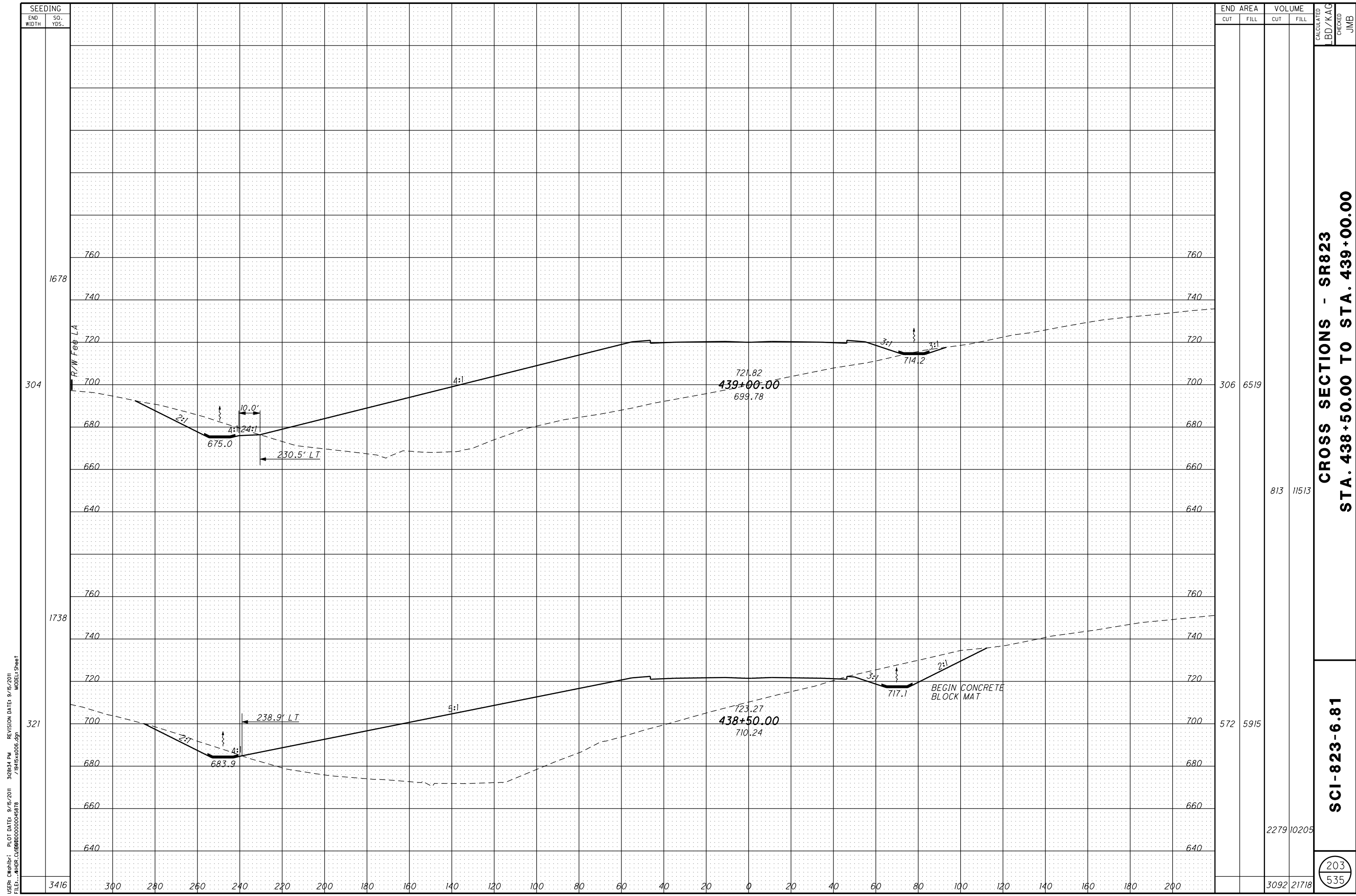
USER: C:\win\brj; PLOT DATE: 9/15/2011 3:29:45 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD\000000045878 /1915x806.dgn MODEL1 Sheet

CROSS SECTIONS - SR823
STA. 437+50.00 TO STA. 438+00.00

SCI-823-6.81

202
535

CALCULATED
BD/KAG
CHECKED
JMB



USER: cwhhbr; PLOT DATE: 9/15/2011 3:28:14 PM REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p00000000045878_7\945x5006.dgn MODEL: Sheet

SEEDING		END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
304	1678	306	6519	813	11513		
321	1738	572	5915	2279	10205		
3416		3092	21718				

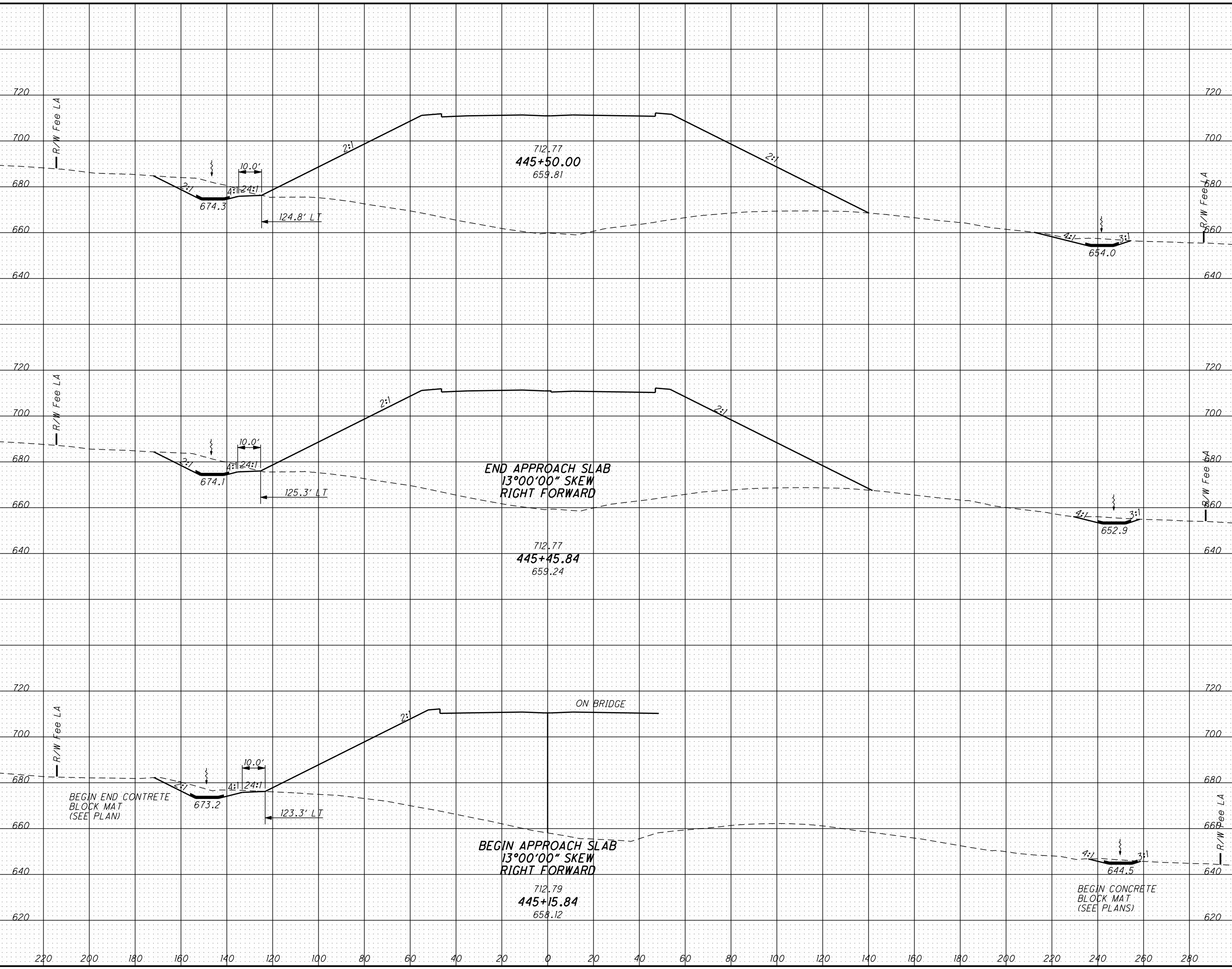
**CROSS SECTIONS - SR823
 STA. 438+50.00 TO STA. 439+00.00**

SCI-823-6.81

203
535

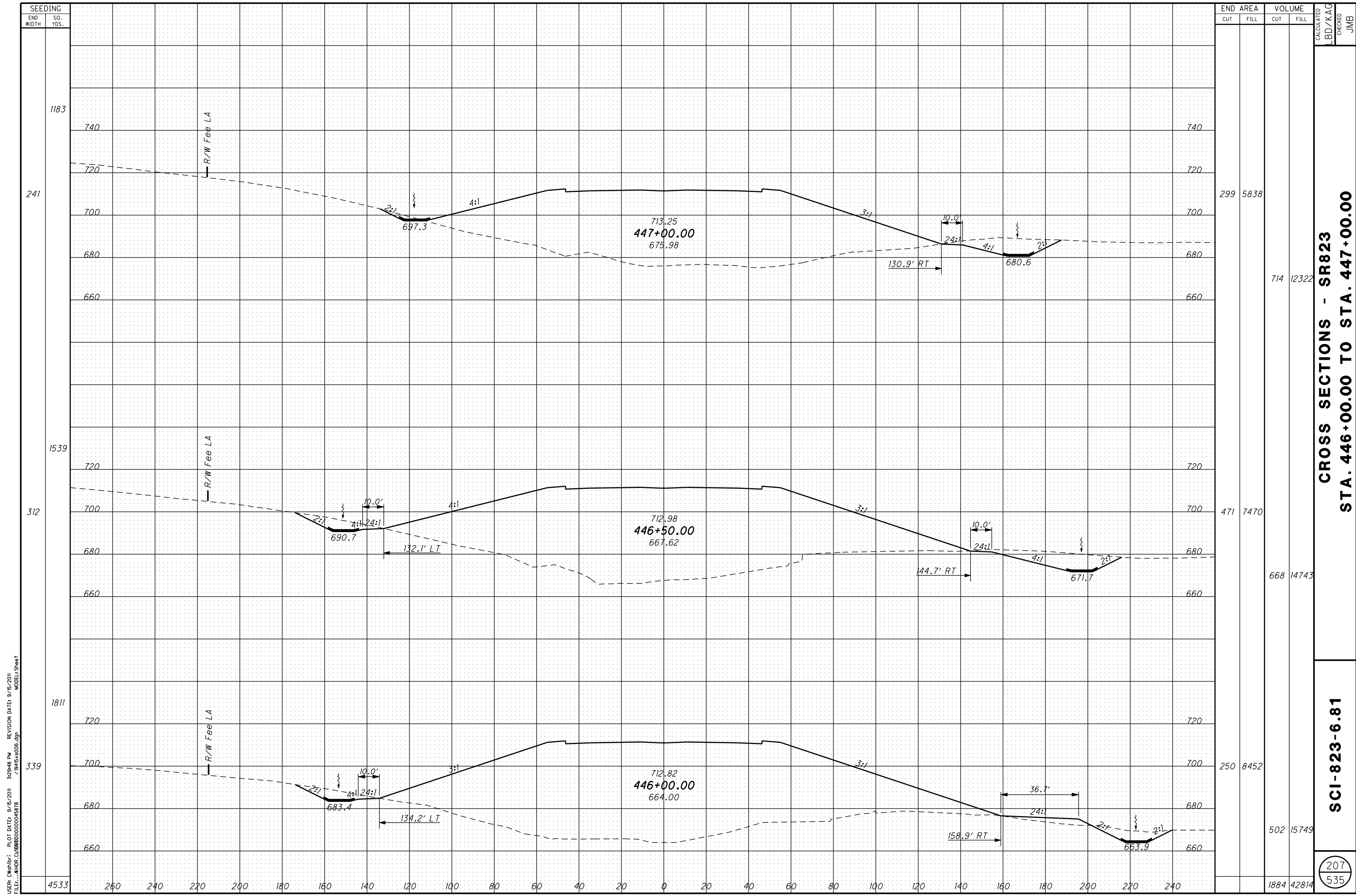
USER: C:\winb\... PLOT DATE: 9/15/2011 3:29:30 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\C:\BDD\000000045878 MODEL1 Sheet

STATION	SEEDING	
	END WIDTH	SO. YDS.
1739	285	
123	273	
945	294	
2807		



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1739	293	8556	41	1262
123	263	8605	233	10107
945	156	9588	0	0
2807			274	11369

CALCULATED BY: KAG
 CHECKED BY: JMB
CROSS SECTIONS - SR823
STA. 445+15.84 TO STA. 445+50.00
SCI-823-6.81
 206
 535



SEEDING	
END WIDTH	SO. YDS.
1183	
241	
1539	
312	
1811	
339	
4533	

END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
299	5838	714	12322		
471	7470	668	14743		
250	8452	502	15749		
		1884	42814		

CROSS SECTIONS - SR823
STA. 446+00.00 TO STA. 447+00.00

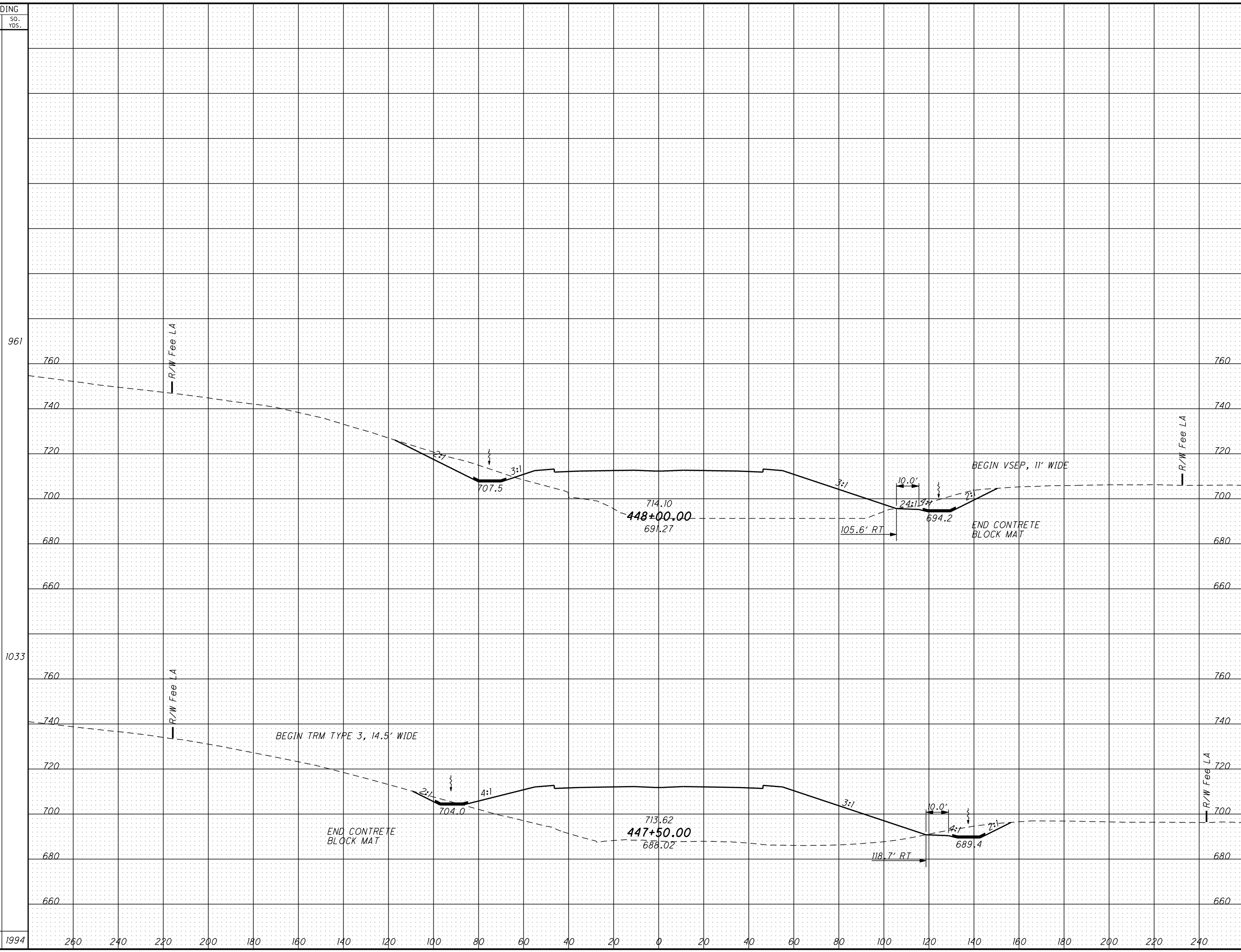
SCI-823-6.81

207
 535

USER: cwhibb; PLOT DATE: 9/15/2011 3:29:48 PM REVISION DATE: 9/15/2011
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USER: C:\hp\l... PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: ... \HDR\C\00000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
1994	
184	
188	
961	



END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
358	2589	464	5846		
144	3725	410	8854		
		874	14700		

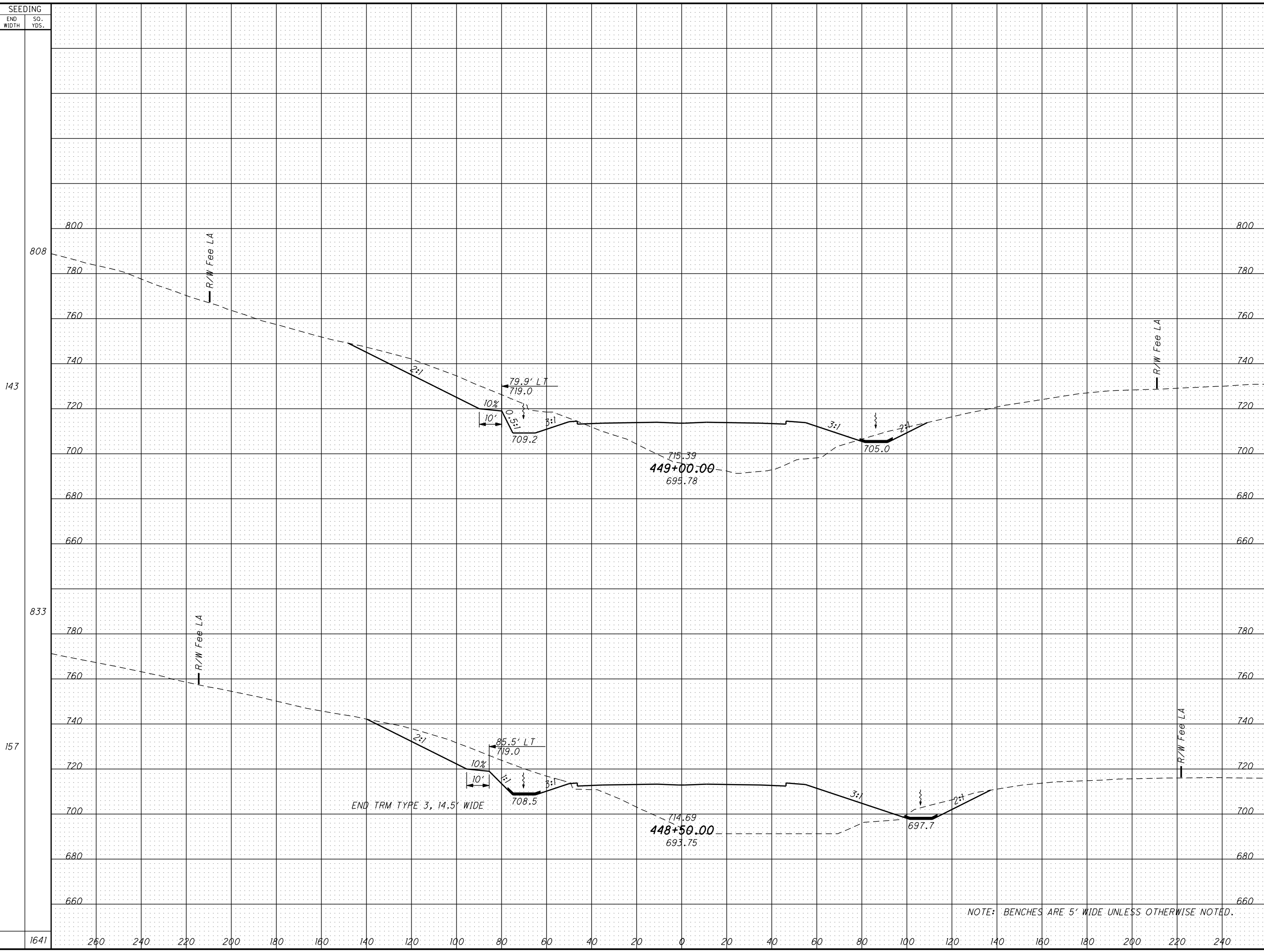
CROSS SECTIONS - SR823
STA. 447+50.00 TO STA. 448+00.00

SCI-823-6.81

208
535

USER: C:\p\h\h\... PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: ... \HDR\00000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
1641	
157	
143	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
811	1699	1479	3527
786	2110	1059	4350
		2538	7877

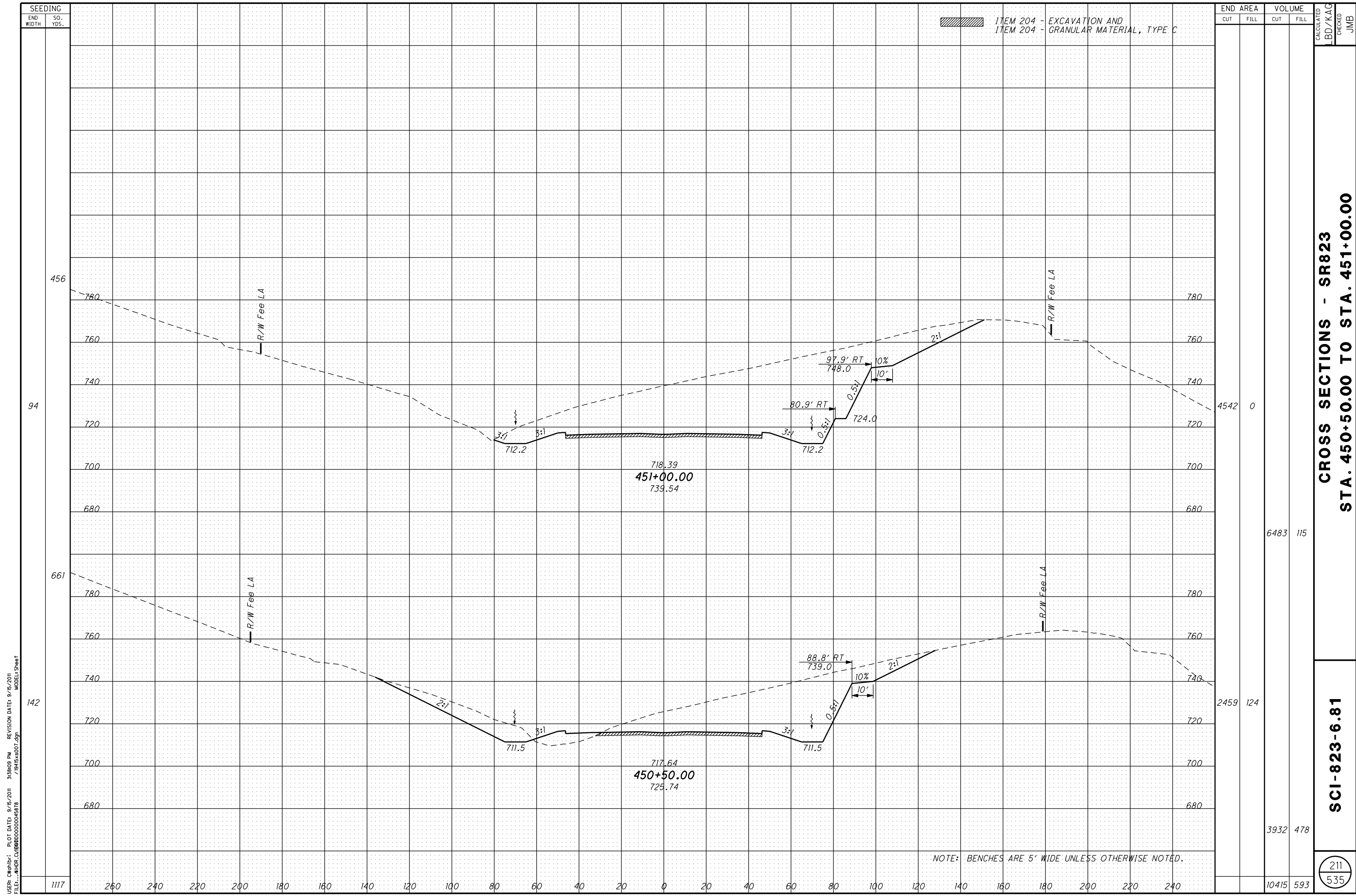
CALCULATED BY: KAG
 CHECKED BY: JMB

CROSS SECTIONS - SR823
STA. 448+50.00 TO STA. 449+00.00

SCI-823-6.81

209
535

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
1117							
142		2459	124				
94		4542	0				
456							
		3932	478	10415	593		
		6483	115				

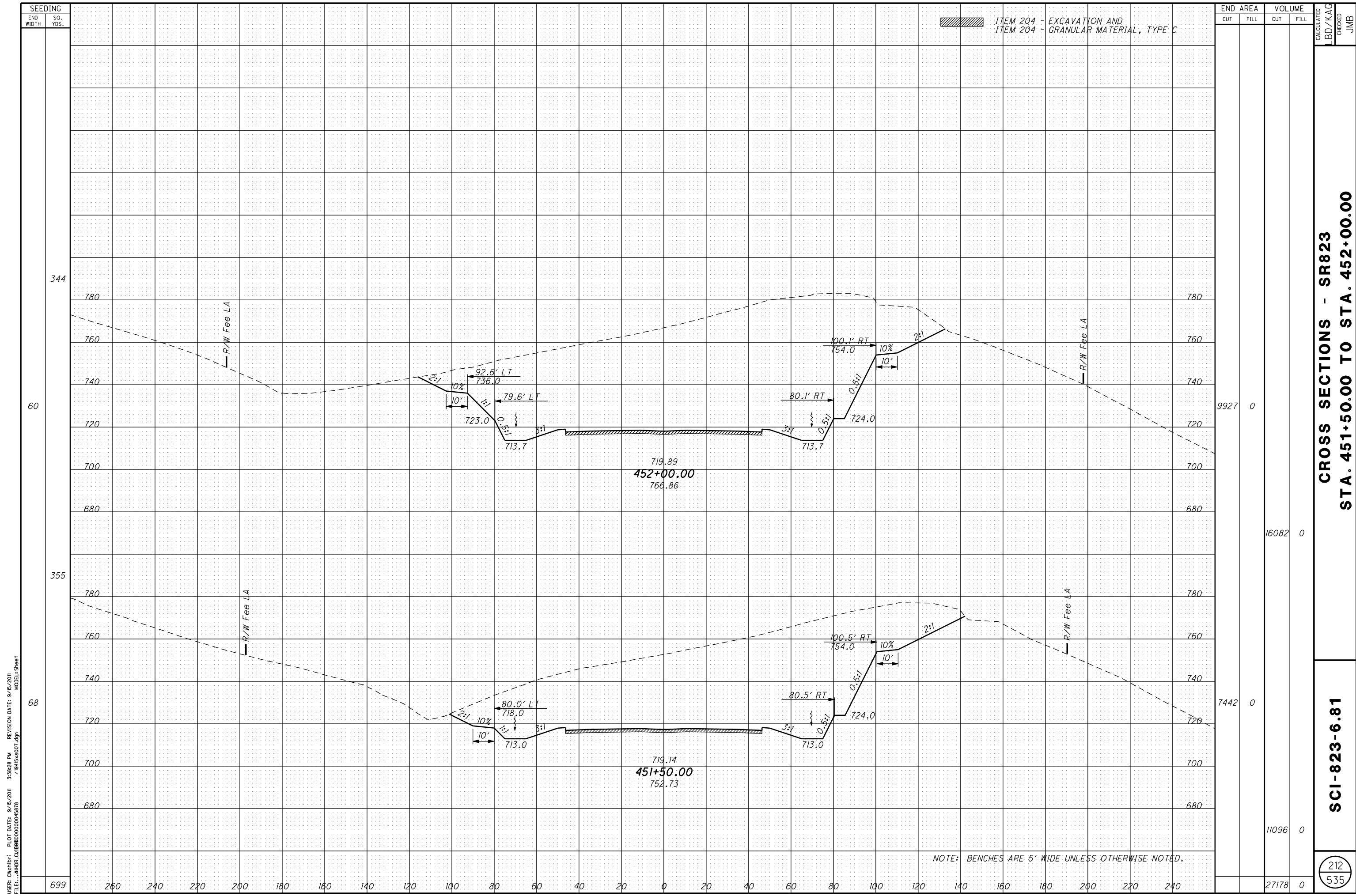
NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR823
STA. 450+50.00 TO STA. 451+00.00

SCI-823-6.81

211
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:39:03 PM REVISION DATE: 9/15/2011
FILE: \\hdh\c\p\0000000045878 MODEL1 Sheet



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
9927	0						
16082	0						
7442	0						
11096	0						
27178	0						

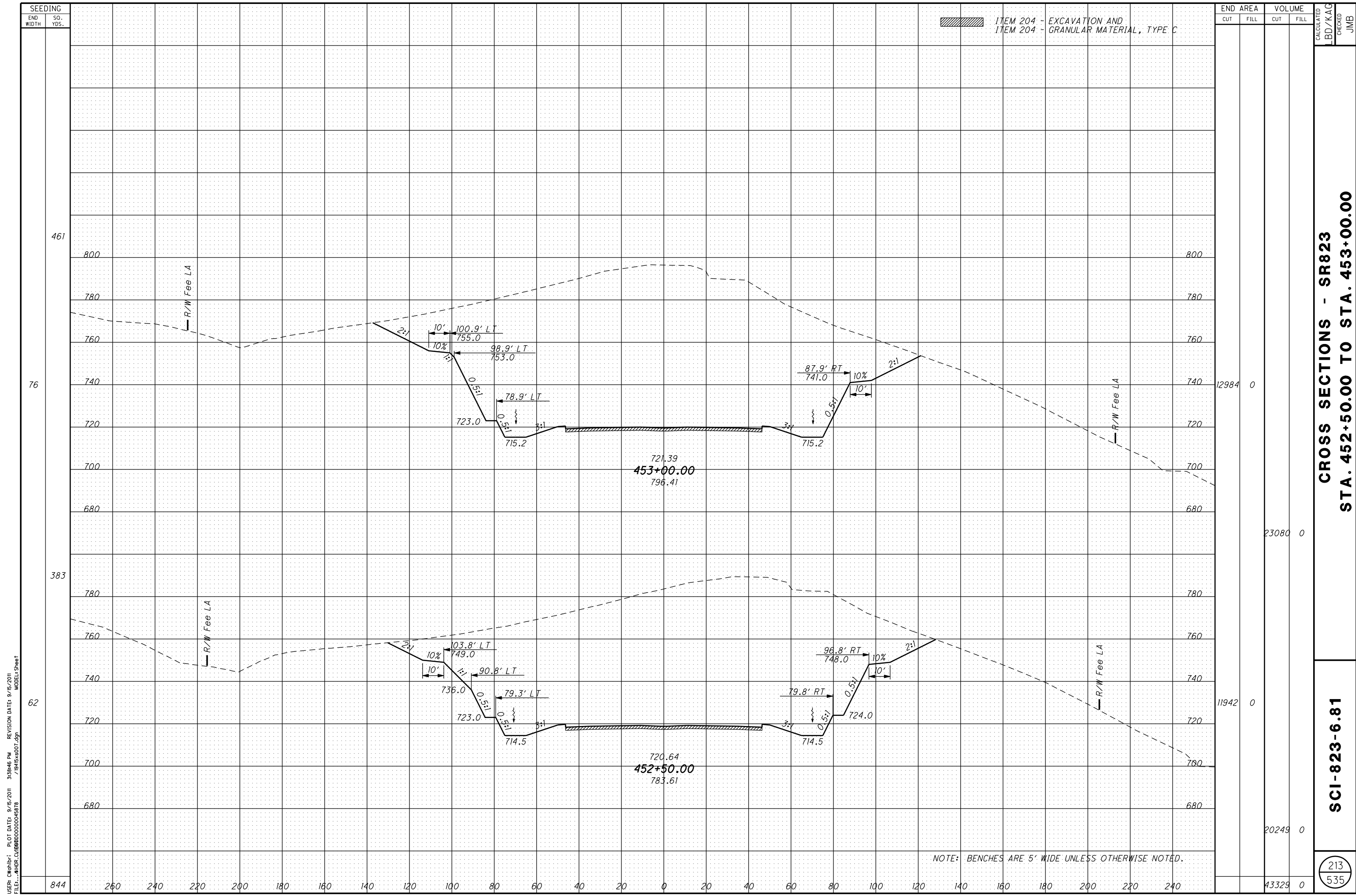
CROSS SECTIONS - SR823
STA. 451+50.00 TO STA. 452+00.00

SCI-823-6.81

212
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:39:28 PM REVISION DATE: 9/15/2011
FILE: \\hdrc\c\800000000045878_7\845x807.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA	VOLUME	CALCULATED	CHECKED
12984	0		
23080	0		
11942	0		
20249	0		
43329	0		

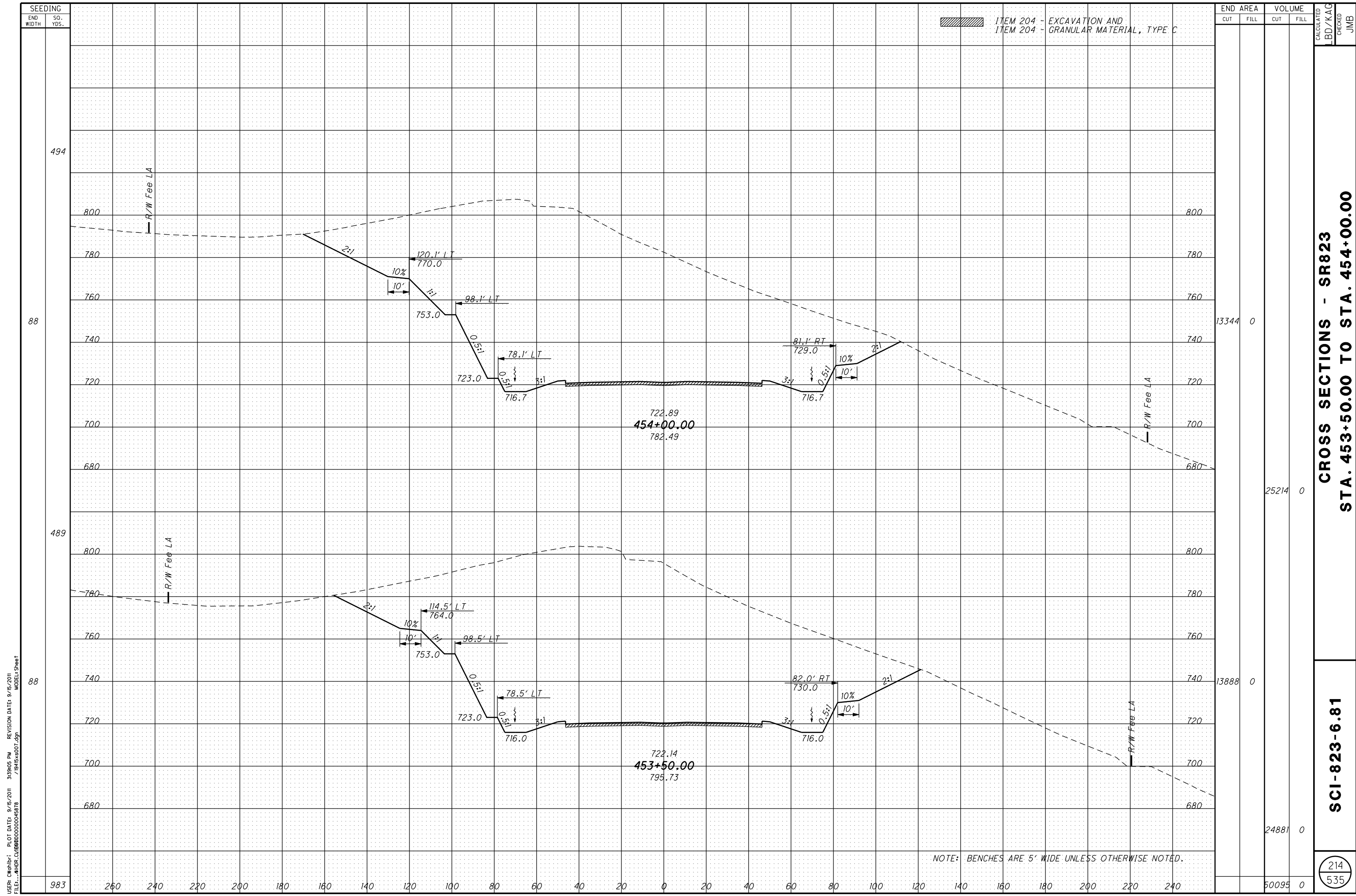
CROSS SECTIONS - SR823
STA. 452+50.00 TO STA. 453+00.00

SCI-823-6.81

213
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:39:46 PM REVISION DATE: 9/15/2011
FILE: \\hdrc\c\80000000\45878_1\845s001.dgn MODEL Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

END AREA	VOLUME	CALCULATED	CHECKED
13344	0		
25214	0		
13888	0		
24881	0		
50095	0		

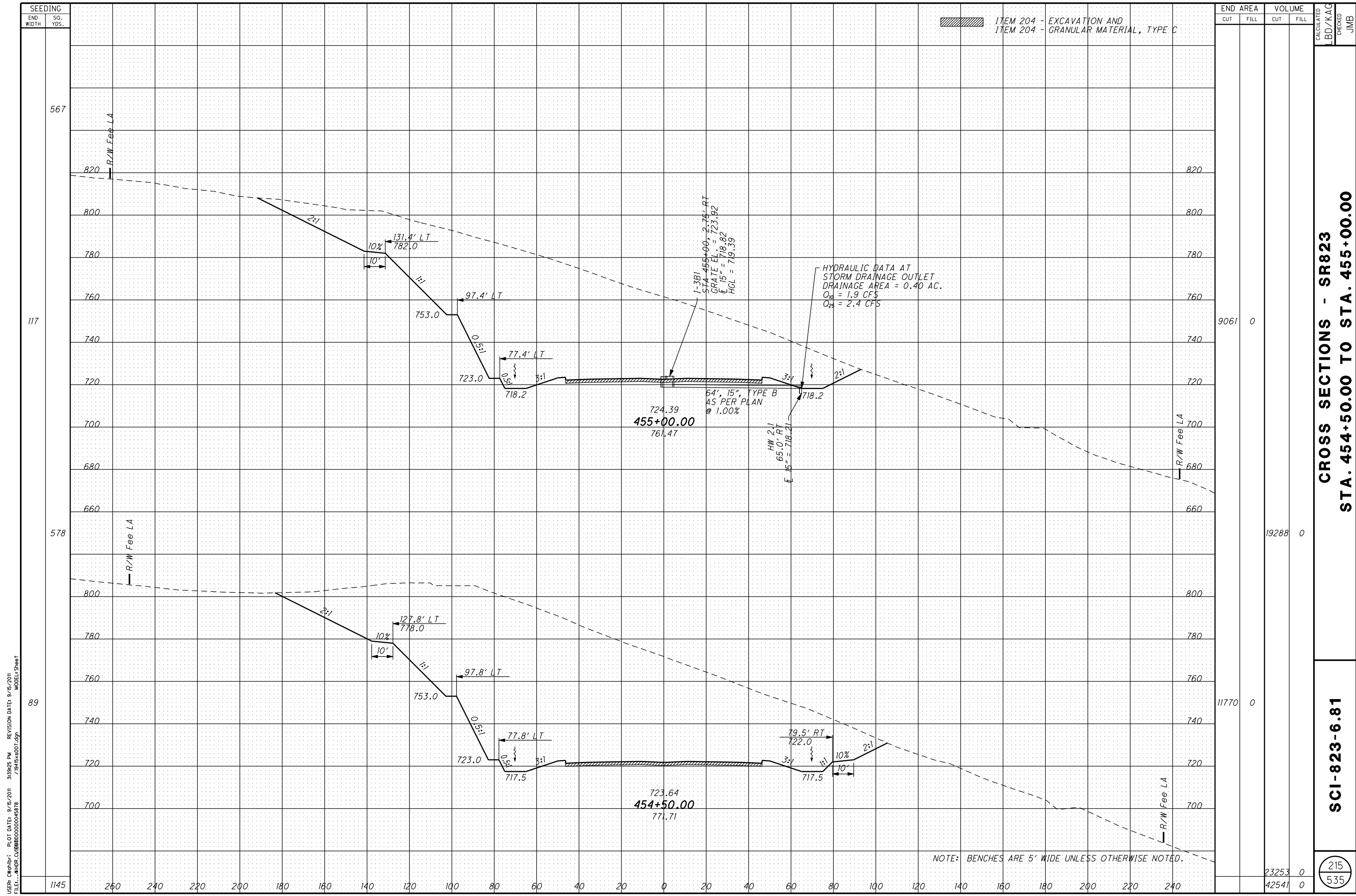
**CROSS SECTIONS - SR823
STA. 453+50.00 TO STA. 454+00.00**

SCI-823-6.81

214
535

USER: cwhbrc; PLOT DATE: 9/15/2011 3:39:05 PM REVISION DATE: 9/15/2011
FILE: \\hdrc\c\800000000045878_1\845x807.dgn MODEL Sheet

SEEDING
END WIDTH SO. YDS.
494
88
489
88
883

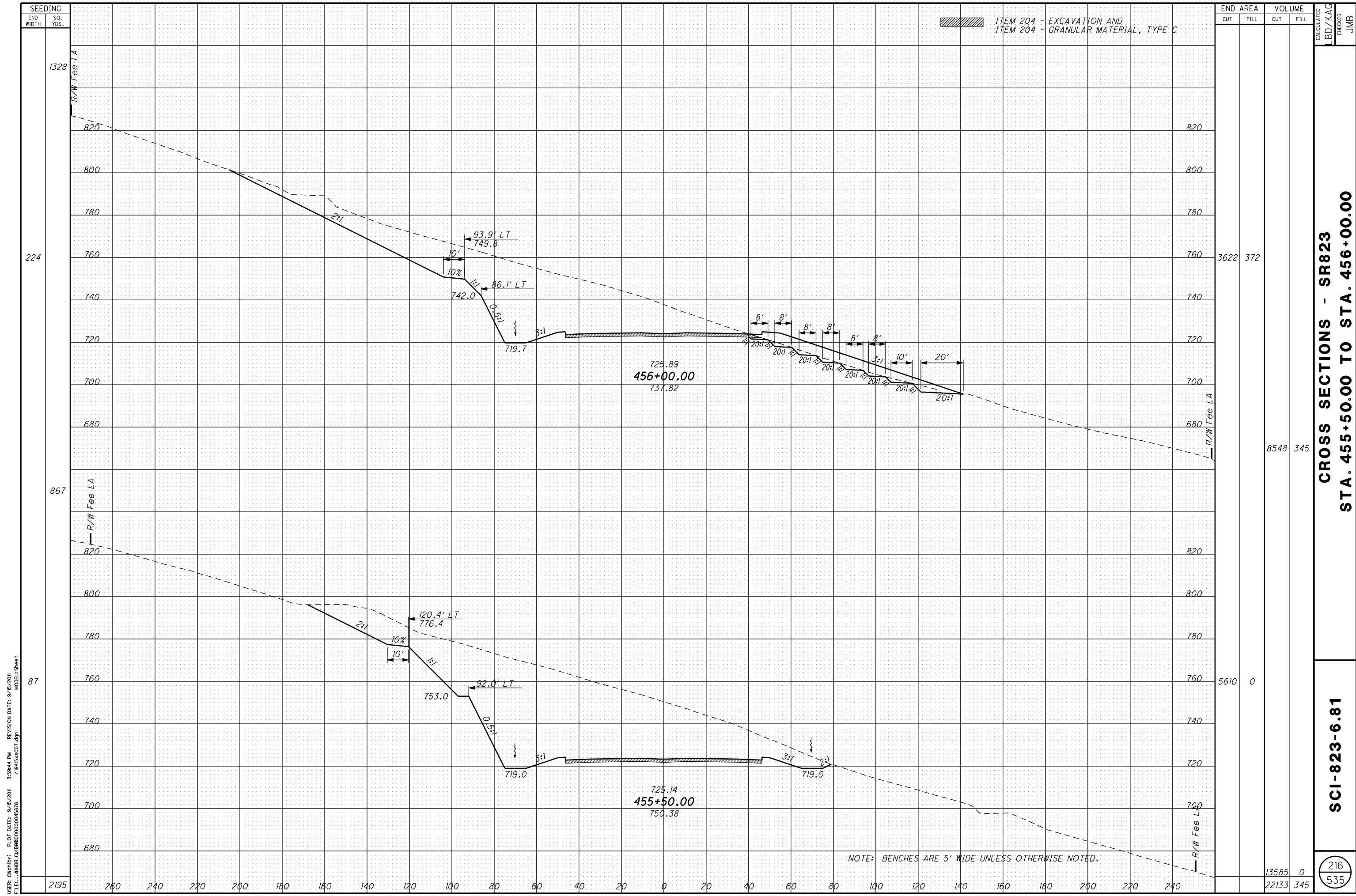


USER: cwhhbr; PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p0000000045878 MODEL1 Sheet

CROSS SECTIONS - SR823
STA. 454+50.00 TO STA. 455+00.00

SCI-823-6.81

215
535



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
2195	1328						
224	224	3622	372				
867	867			8548	345		
87	87	5610	0				
2195	2195	13585	0	22133	345		

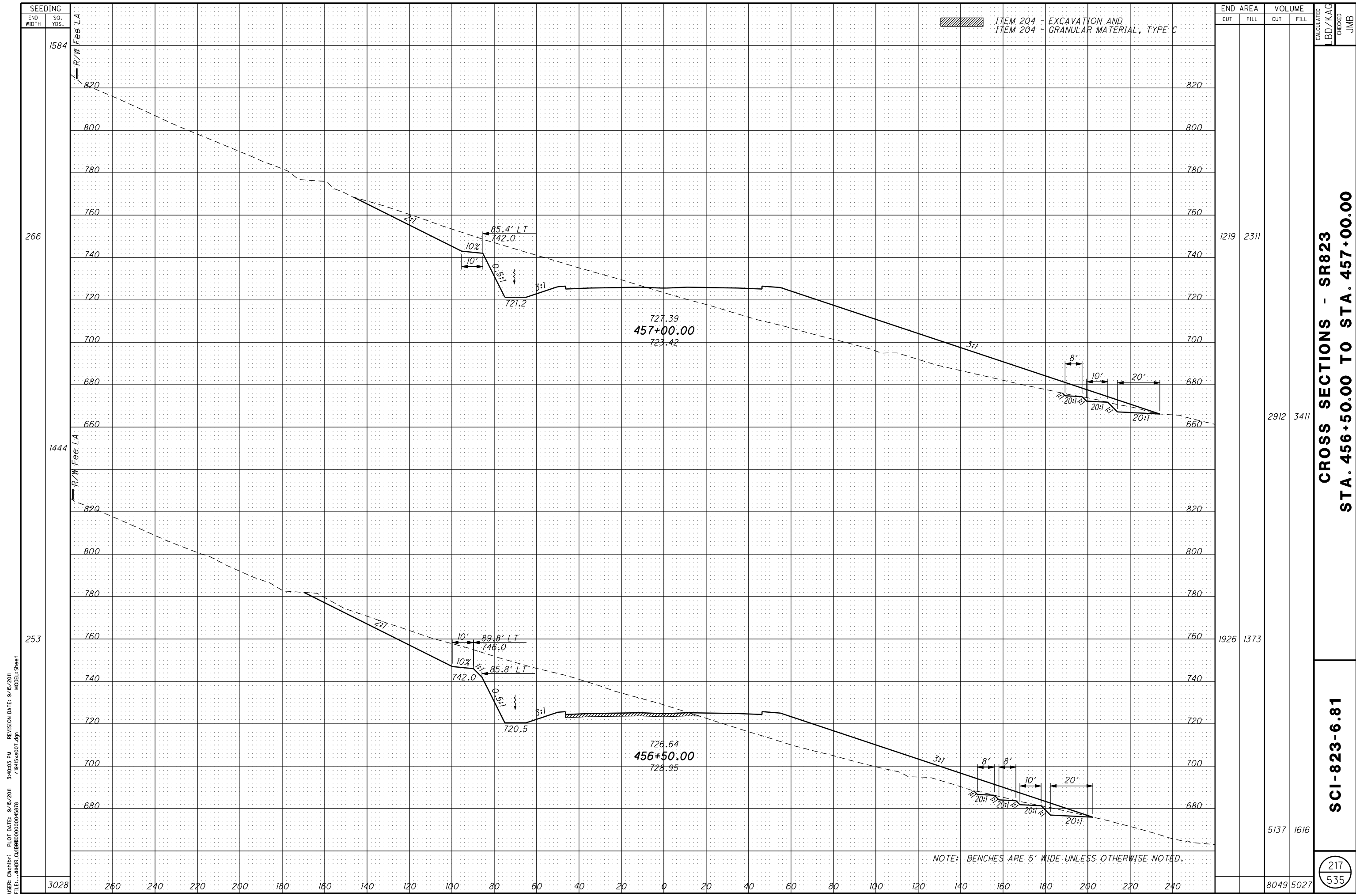
CROSS SECTIONS - SR823
STA. 455+50.00 TO STA. 456+00.00

SCI-823-6.81

216
535

USER: cwhibb; PLOT DATE: 9/15/2011 3:39:44 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878\1945x5007.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
1584							
266		1219	2311				
1444							
253		1926	1373				
3028				8049	5027		

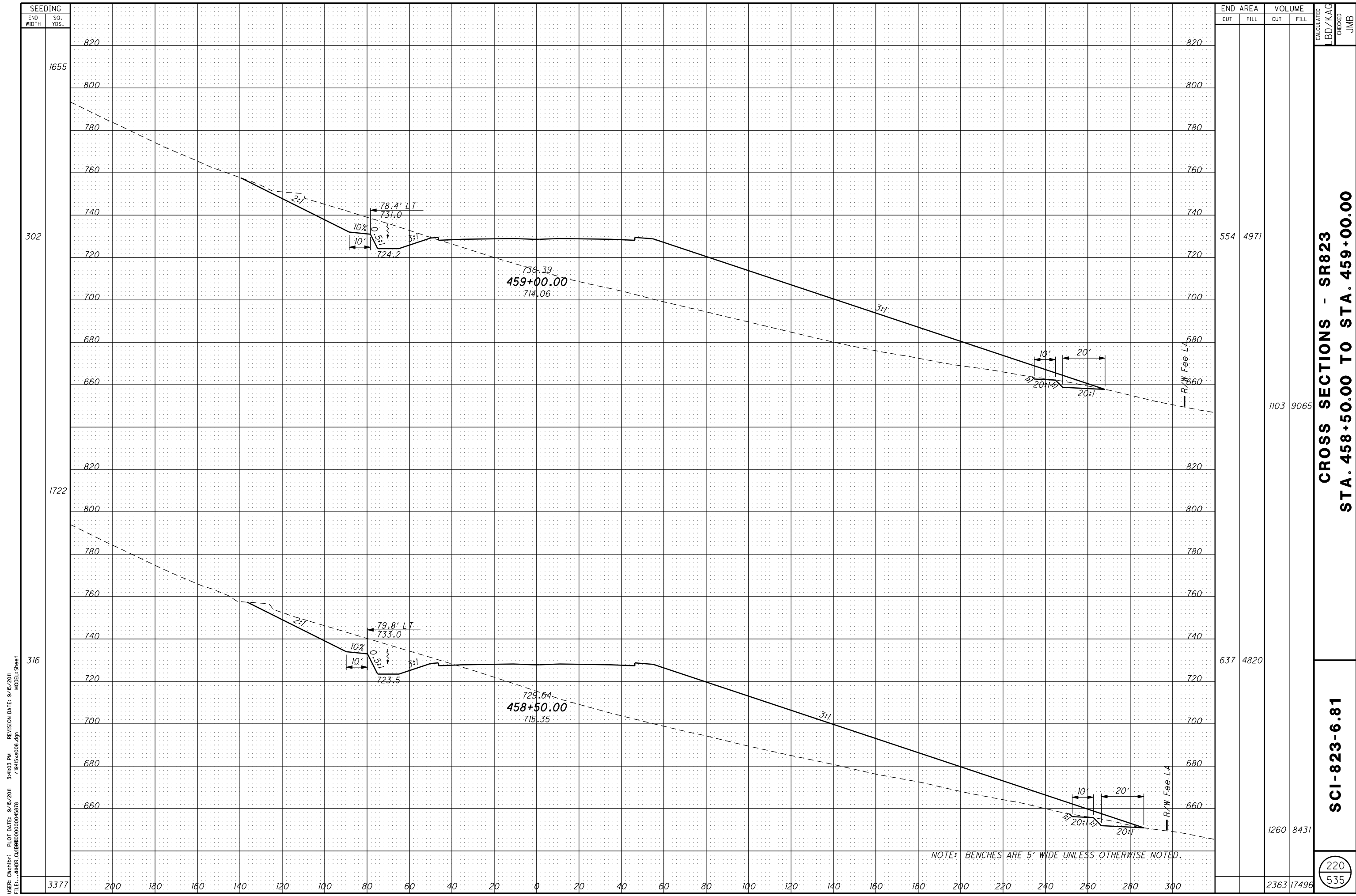
CROSS SECTIONS - SR823
STA. 456+50.00 TO STA. 457+00.00

SCI-823-6.81

217
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:40:03 PM REVISION DATE: 9/15/2011
FILE: \\hdh\c\p\00000000045878 MODEL1 Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



SEEDING	
END WIDTH	SO. YDS.
3377	1655
302	302
1722	1722
316	316
3377	3377

END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
554	4971	1103	9065		
637	4820	1260	8431		
		2363	17496		

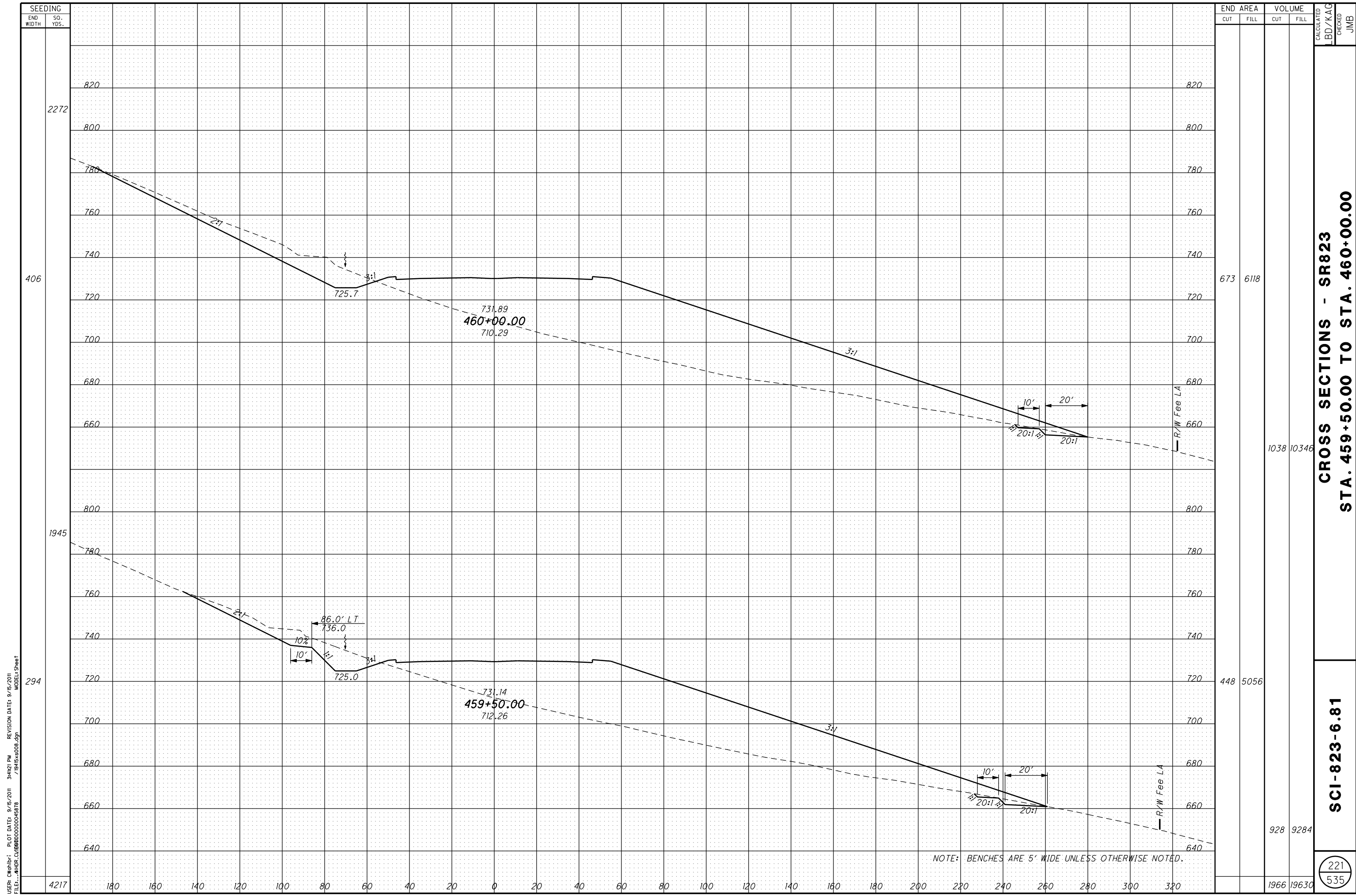
**CROSS SECTIONS - SR823
STA. 458+50.00 TO STA. 459+00.00**

SCI-823-6.81

220
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:40:03 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878_7\945x808.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



SEEDING	
END WIDTH	SO. YDS.
4217	2272
180	800
160	800
140	780
120	760
100	740
80	720
60	700
40	680
20	660
0	640
20	660
40	680
60	700
80	720
100	740
120	760
140	780
160	800
180	820

END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
673	6118	1038	10346		
448	5056	928	9284		
		1966	19630		

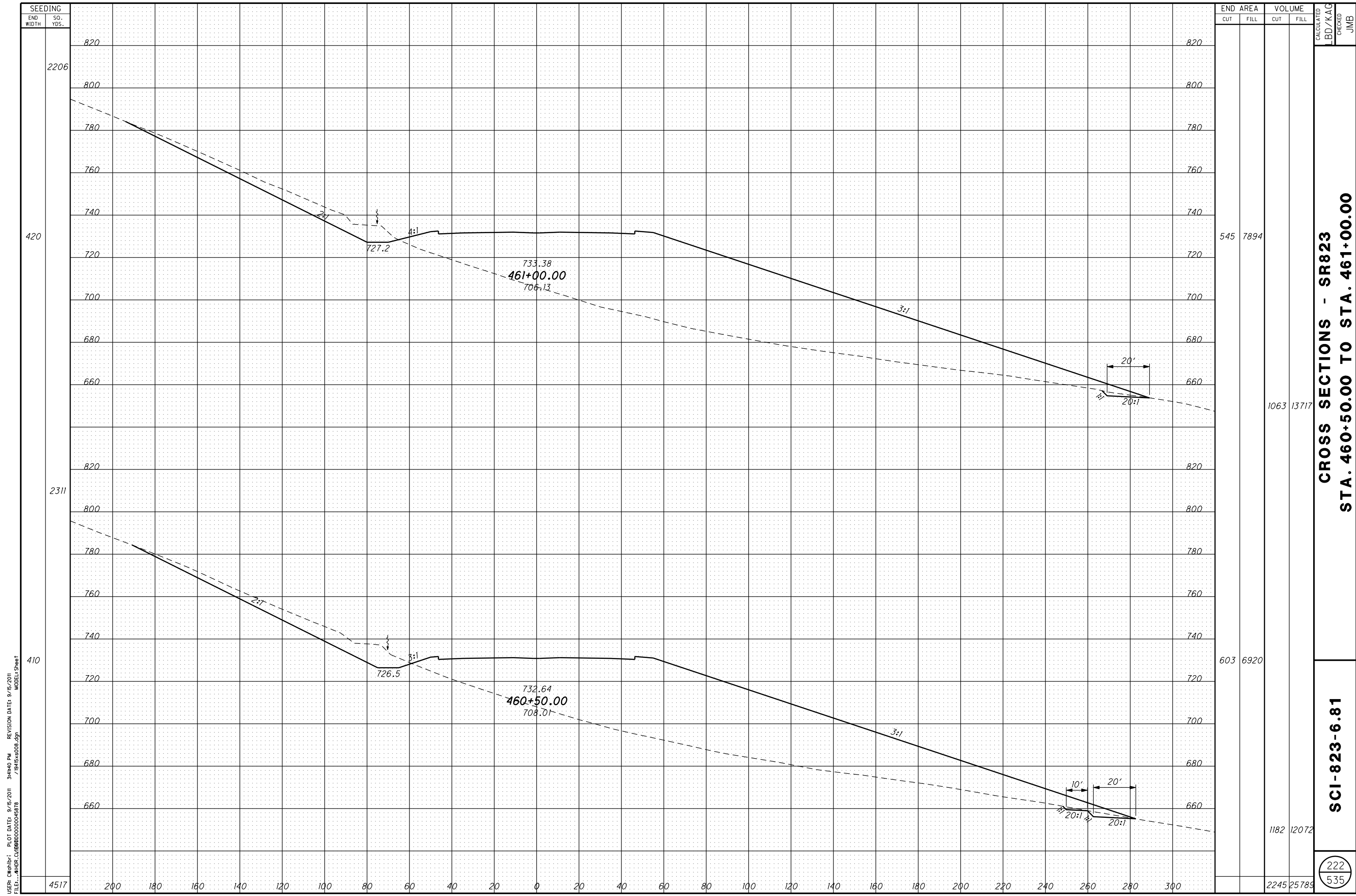
**CROSS SECTIONS - SR823
STA. 459+50.00 TO STA. 460+00.00**

SCI-823-6.81

221
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:42:21 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878_7\945x500.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



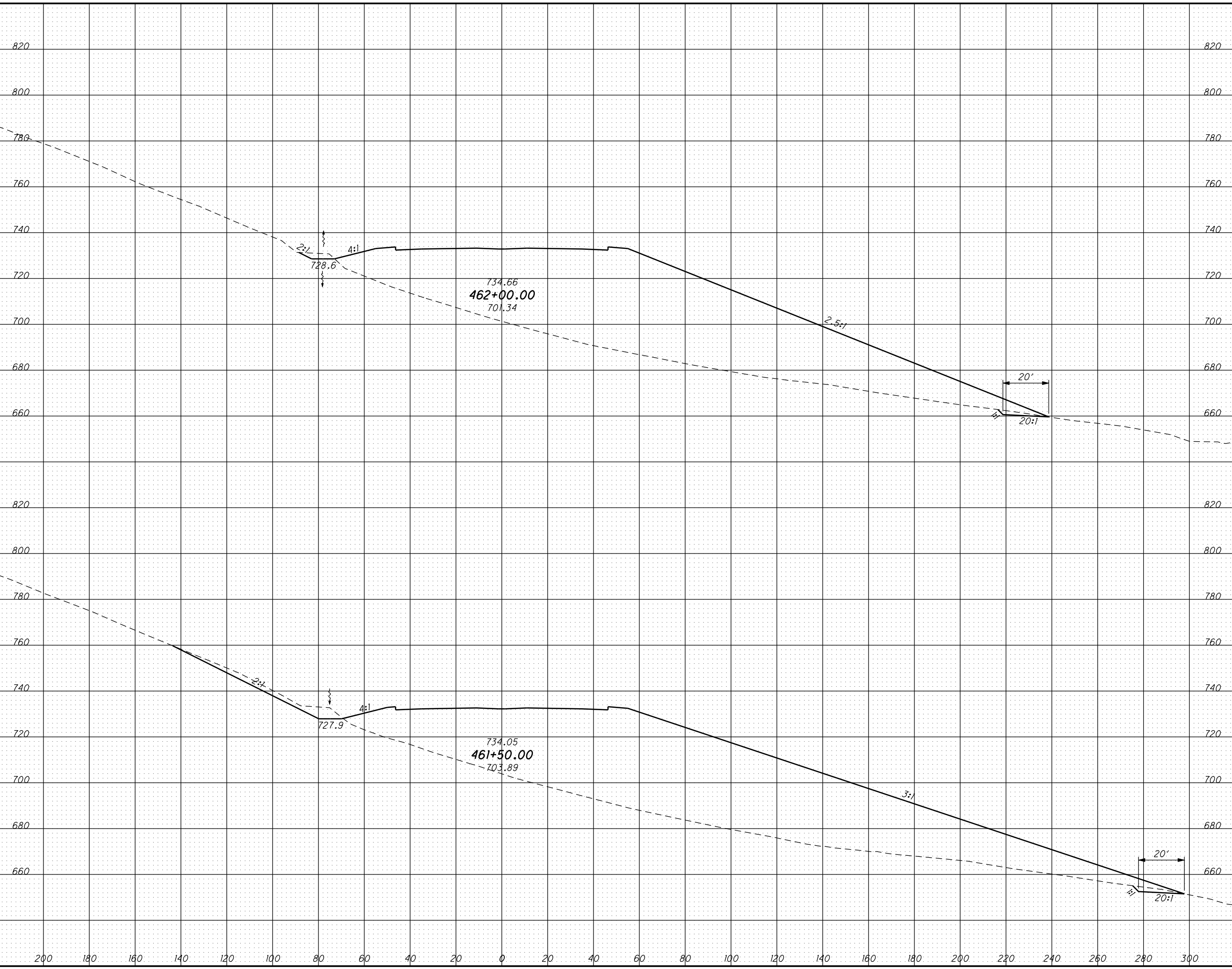
USER: cwhhbr; PLOT DATE: 9/15/2011 3:44:40 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD\000000045878_7\9415x808.dgn MODEL: Sheet

**CROSS SECTIONS - SR823
 STA. 460+50.00 TO STA. 461+00.00**

SCI-823-6.81

USER: cwhhbr; PLOT DATE: 9/15/2011 3:49:59 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\B0000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
3300	1561
200	253
180	1739
160	373

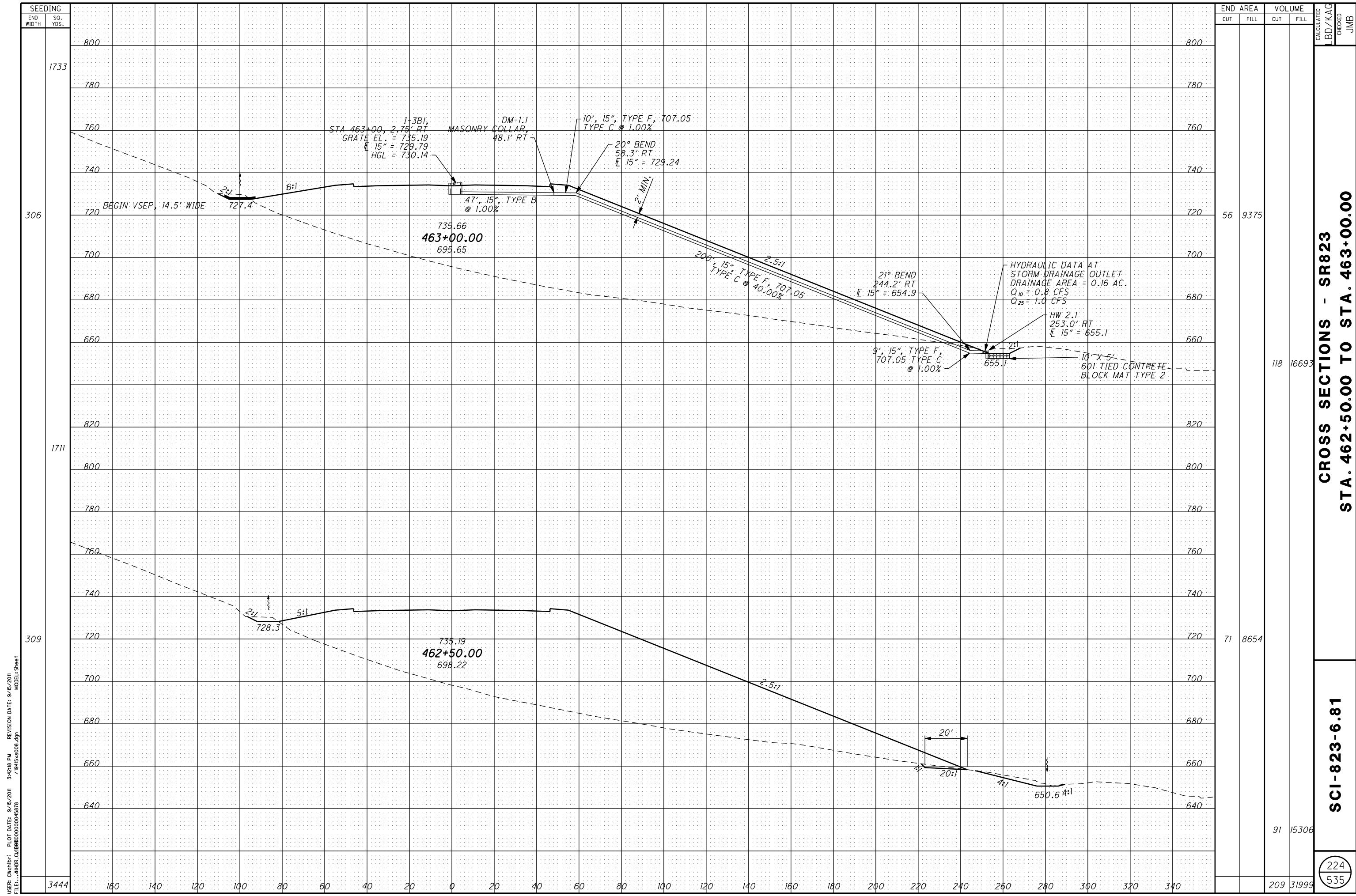


END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
27	7877	177	15404		
163	8760	656	15420		
833	30824				

**CROSS SECTIONS - SR823
 STA. 461+50.00 TO STA. 462+00.00**

SCI-823-6.81

223
535



END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
56	9375						
118	16693						
71	8654						
91	15306						
209	31999						

CROSS SECTIONS - SR823
STA. 462+50.00 TO STA. 463+00.00

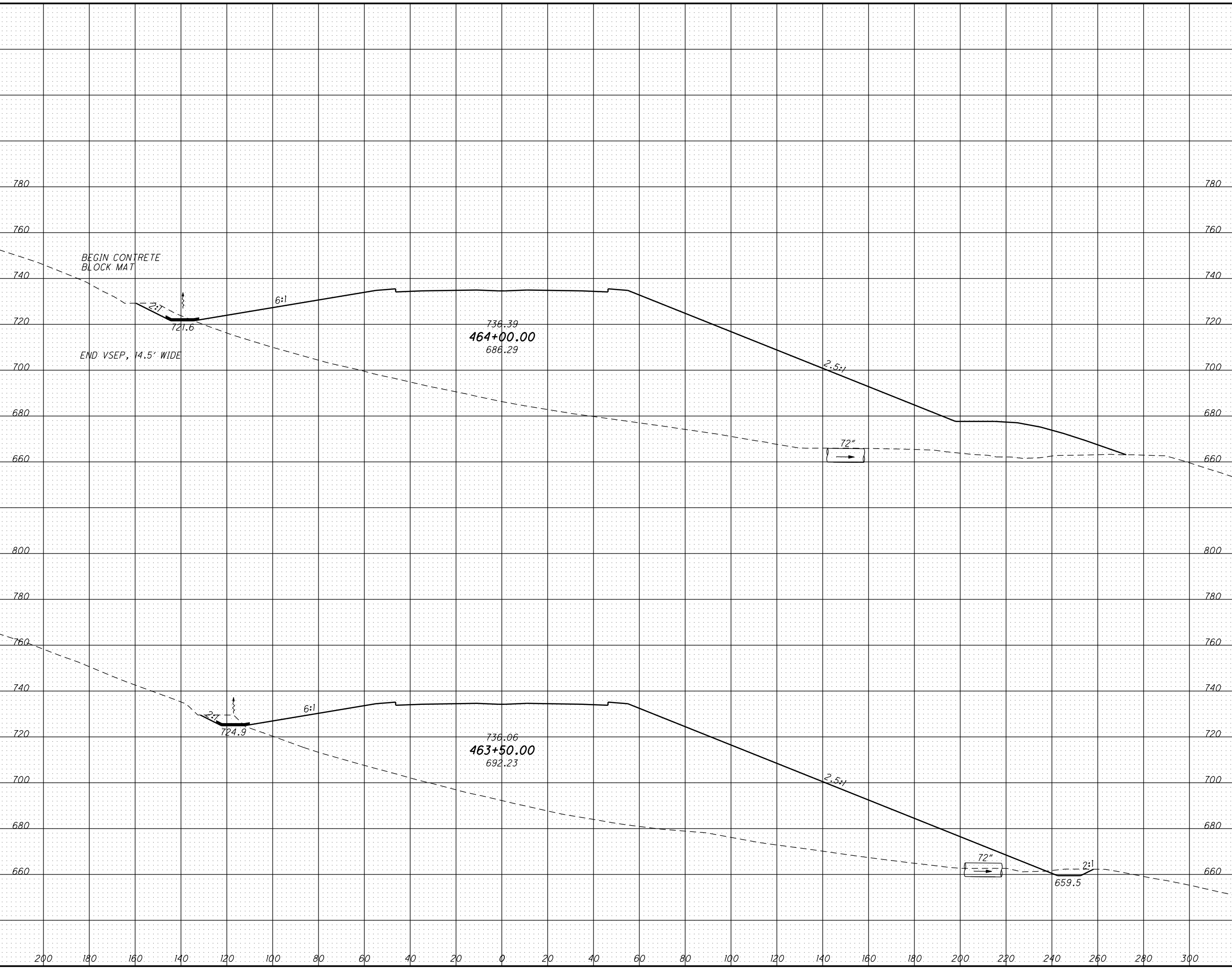
SCI-823-6.81

224
 535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:42:18 PM REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p0000000045878_7\915x808.dgn MODEL: Sheet

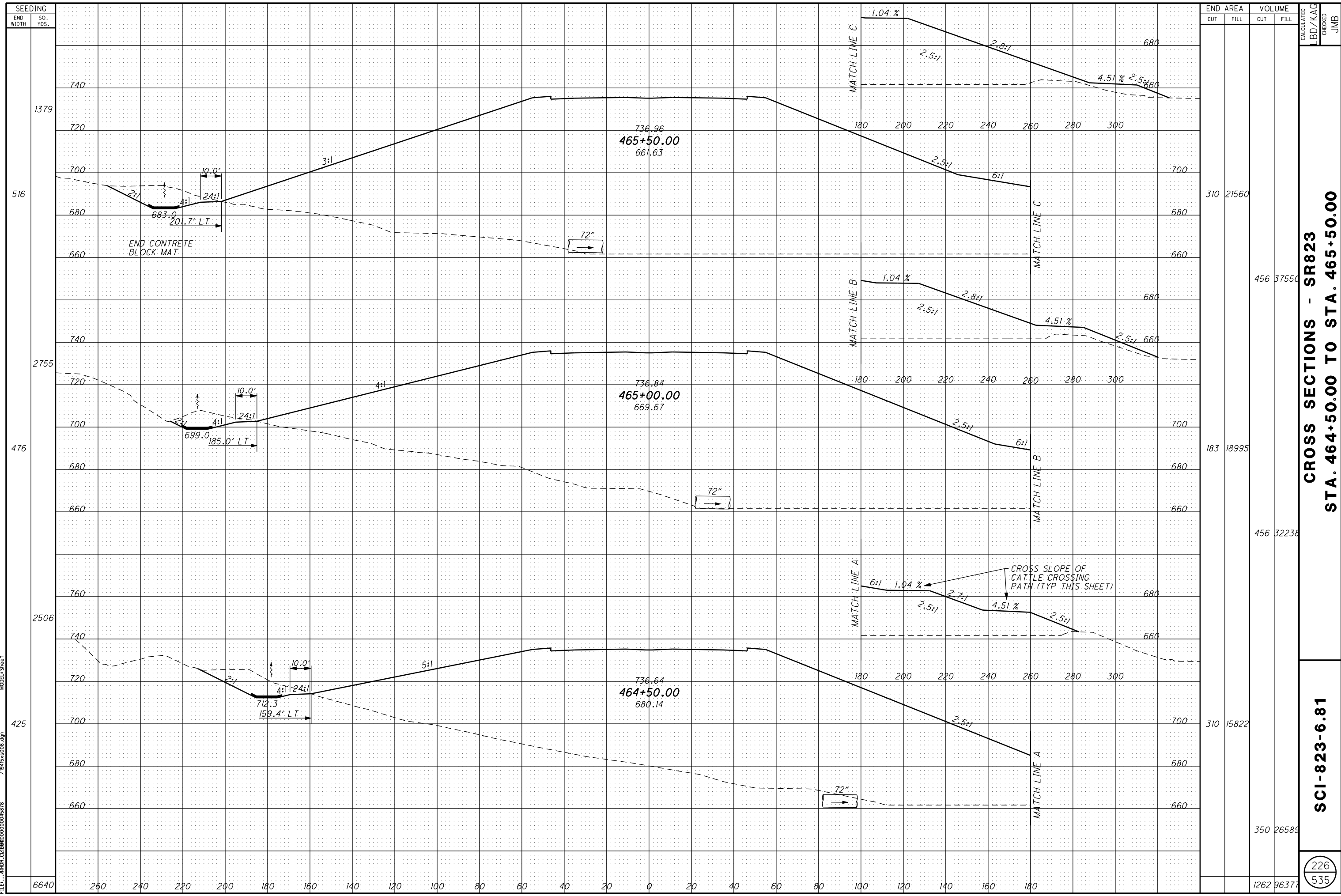
USER: C:\p1\h1\... PLOT DATE: 9/15/2011 3:42:37 PM REVISION DATE: 9/15/2011
 FILE: ..._HDR.C:\p1\h1\... MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
4062	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	



END AREA	VOLUME	CALCULATED		CHECKED	
		CUT	FILL	BD/KAG	JMB
68	12894				
155	21695				
99	10536				
144	18436				
299	40131				

CROSS SECTIONS - SR823
STA. 463+50.00 TO STA. 464+00.00
SCI-823-6.81
 225
 535



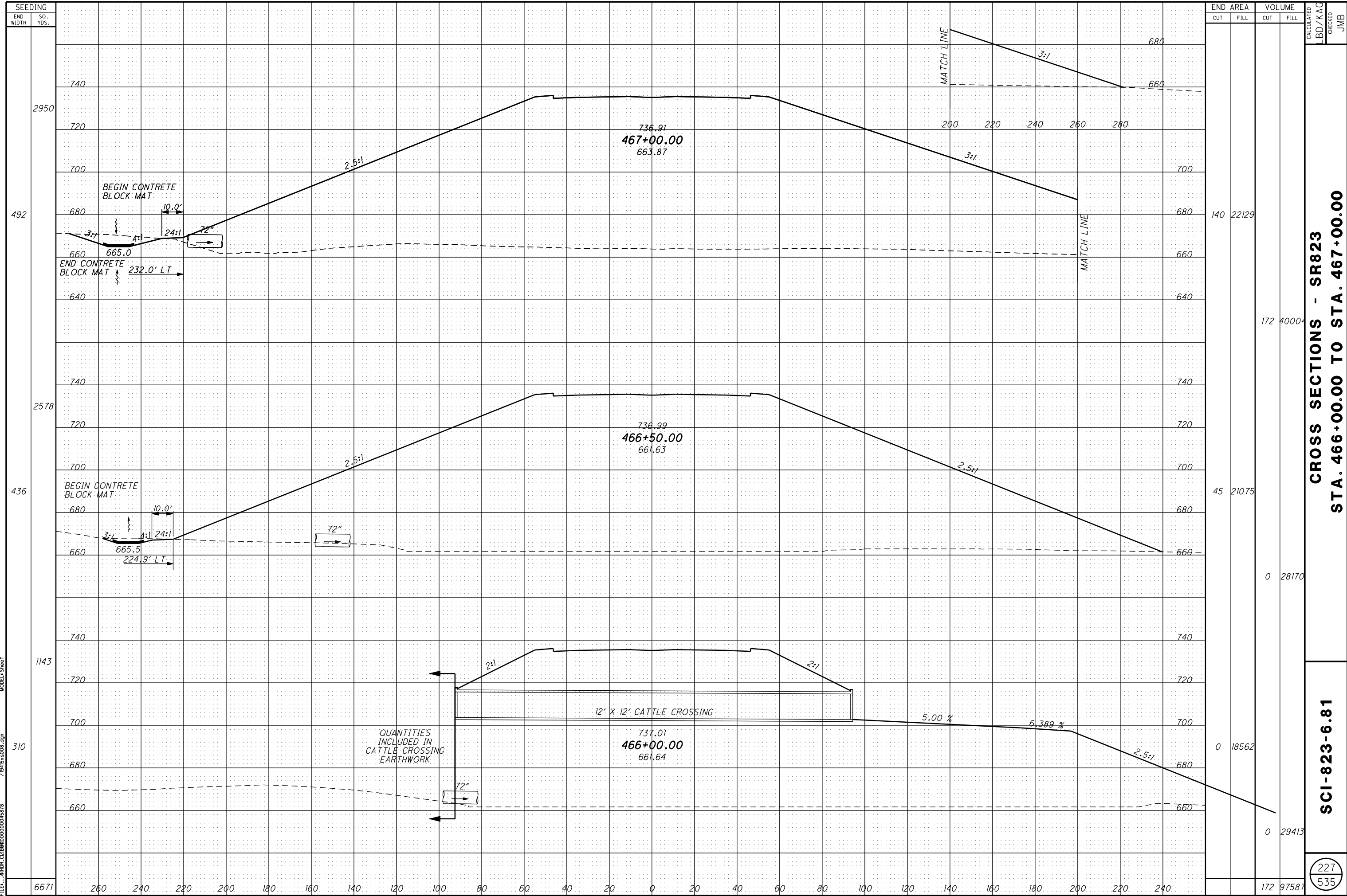
SEEDING	
END WIDTH	SO. YDS.
6640	1379
260	516
240	2755
220	476
200	2506
180	425
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	
260	

END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
310	21560	456	37550		
183	18995	456	32238		
310	15822	350	26589		
		1262	96377		

CROSS SECTIONS - SR823
STA. 464+50.00 TO STA. 465+50.00

SCI-823-6.81

USER: C:\winb\... PLOT DATE: 9/15/2011 3:42:56 PM REVISION DATE: 9/15/2011
 FILE: ... \945x5008.dgn MODEL: Sheet



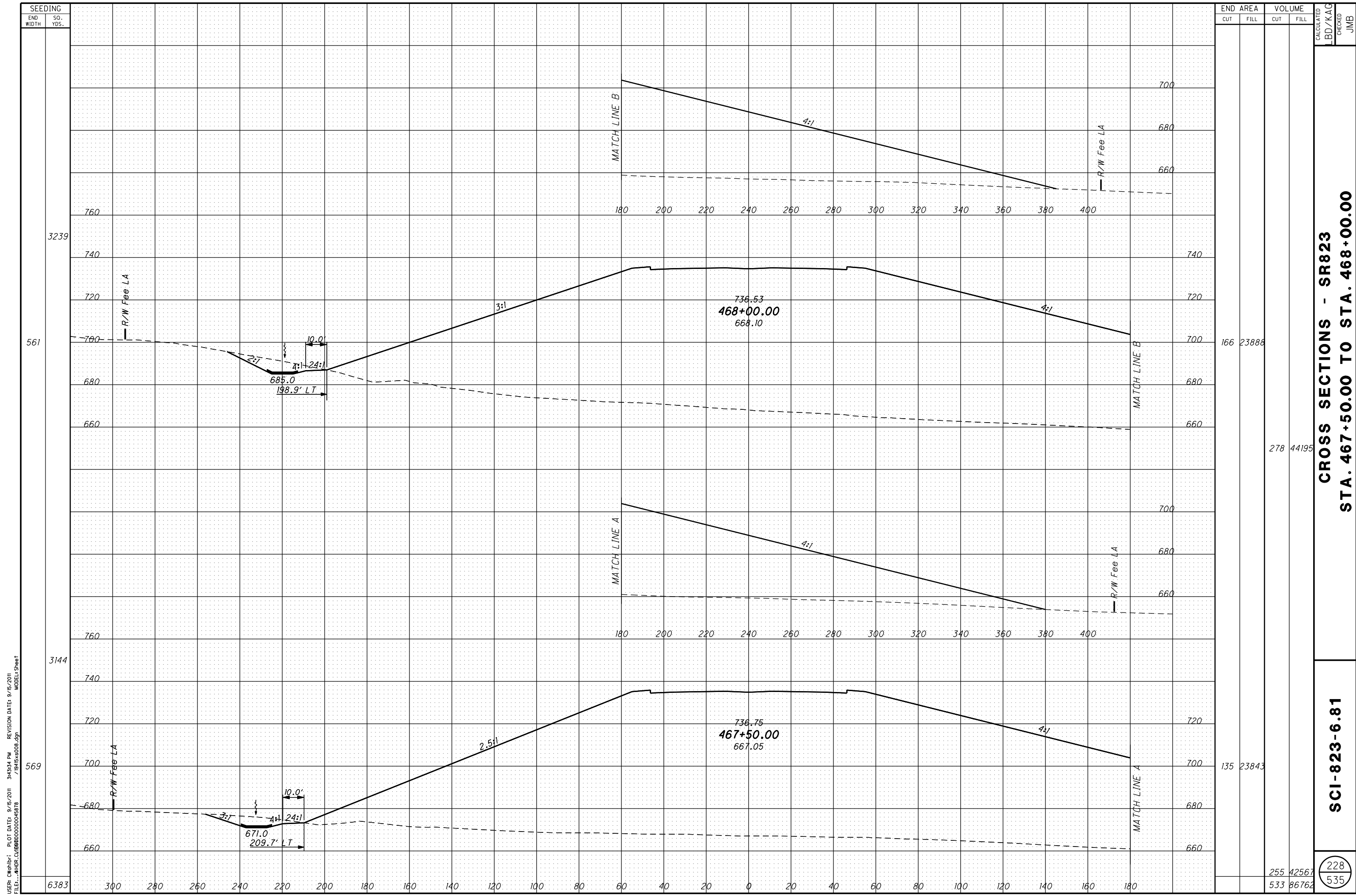
USER: cwhhbr; PLOT DATE: 9/15/2011 3:43:15 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\00000000045878 MODEL1 Sheet

CROSS SECTIONS - SR823
STA. 466+00.00 TO STA. 467+00.00

SCI-823-6.81

227
535

CALCULATED
LD/KAG
CHECKED
JMB



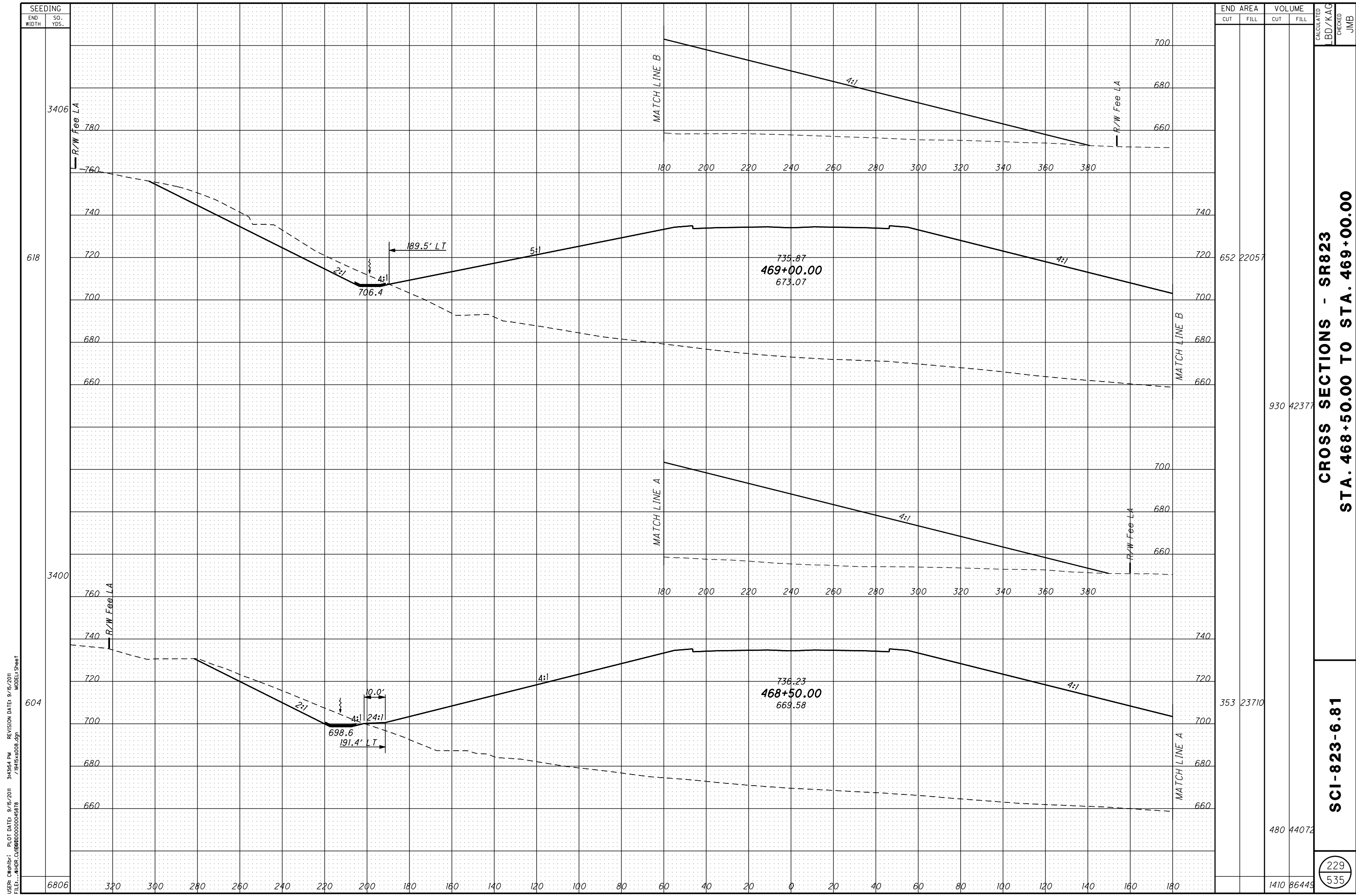
SEEDING	
END WIDTH	SO. YDS.
300	3239
280	740
260	720
240	700
220	680
200	660
180	740
160	720
140	700
120	680
100	660
80	740
60	720
40	700
20	680
0	660
20	740
40	720
60	700
80	680
100	660
120	740
140	720
160	700
180	680
200	660
220	740
240	720
260	700
280	680
300	660

END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
166	23888	278	44195		
135	23843	255	42567		
533	86762	535	86762		

USER: cwhhbr; PLOT DATE: 9/15/2011 3:43:34 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD\00000045878 /9/15/2011.dgn MODEL: Sheet

CROSS SECTIONS - SR823
STA. 467+50.00 TO STA. 468+00.00

SCI-823-6.81



SEEDING	
END WIDTH	SO. YDS.
6806	320
	300
	280
	260
	240
	220
	200
	180
	160
	140
	120
	100
	80
	60
	40
	20
	0
	20
	40
	60
	80
	100
	120
	140
	160
	180

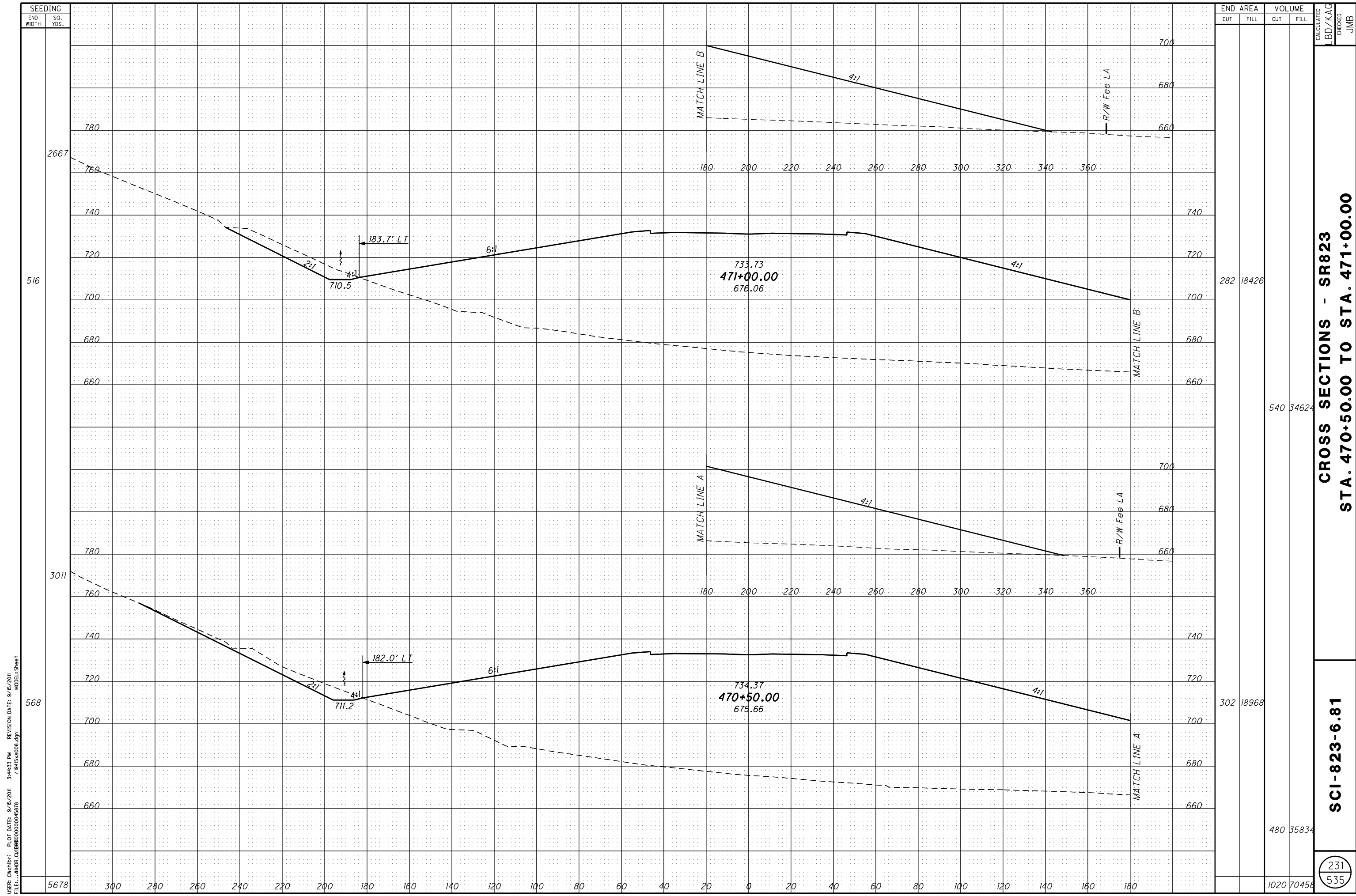
END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
652	22057	930	42377		
353	23710	480	44072		
		1410	86449		

**CROSS SECTIONS - SR823
STA. 468+50.00 TO STA. 469+00.00**

SCI-823-6.81

229
535

USER: cwhibb; PLOT DATE: 9/15/2011 3:43:54 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878_7\945x5008.dgn MODEL: Sheet



SEEDING	
END WIDTH	SO. YDS.
516	2667
568	3011
5678	

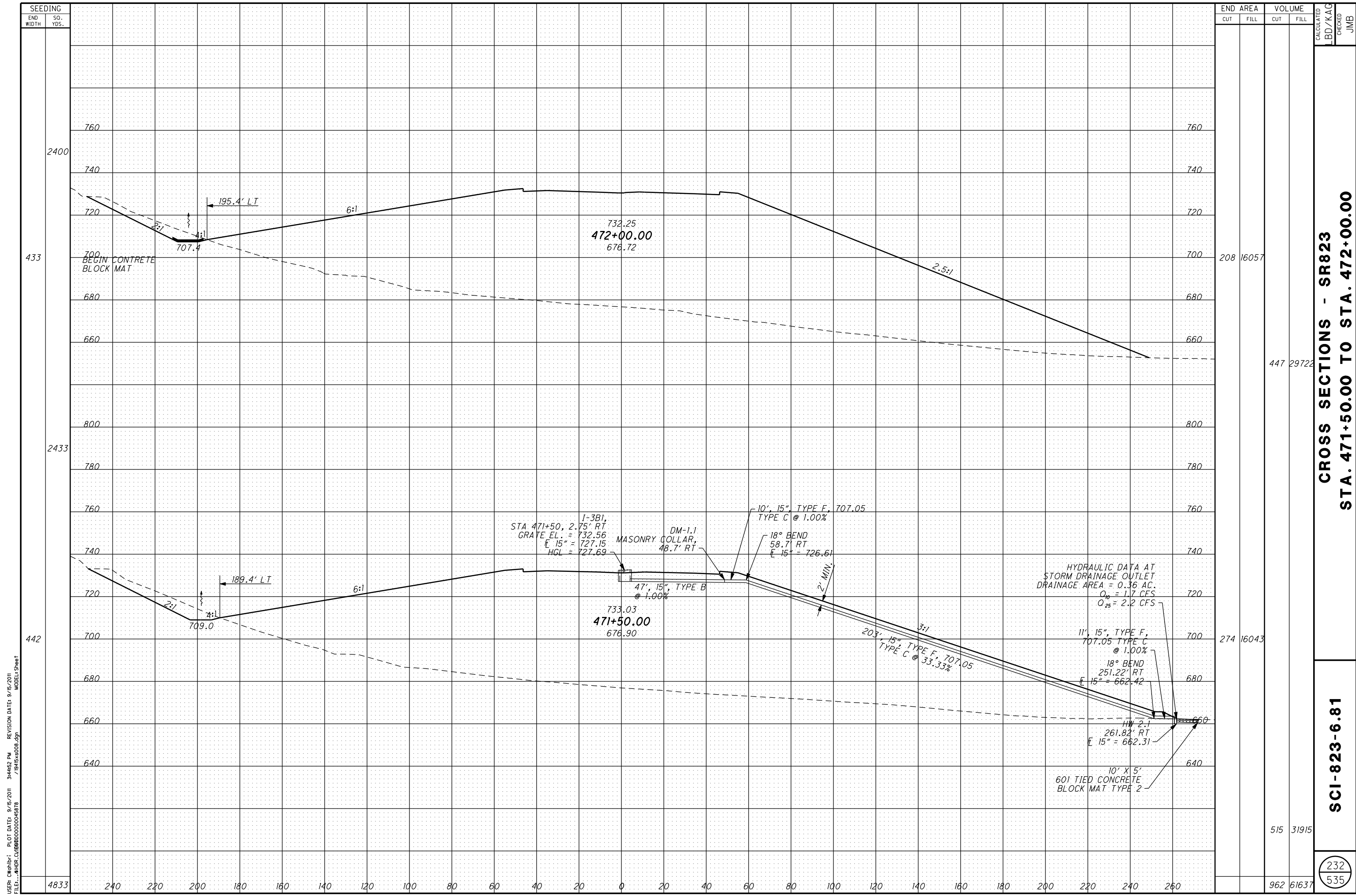
END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
282	18426	540	34624		
302	18968	480	35834		
	1020	70458			

**CROSS SECTIONS - SR823
 STA. 470+50.00 TO STA. 471+00.00**

SCI-823-6.81

231
535

USER: C:\hp\l... PLOT DATE: 9/15/2011 3:44:33 PM REVISION DATE: 9/15/2011
 FILE: ..._HDR.CLR\0000000045878 MODEL1 Sheet



SEEDING	
END WIDTH	SO. YDS.
4833	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	
260	

END AREA		VOLUME		CALCULATED LD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
208	16057				
447	29722				
274	16043				
515	31915				
962	61637				

CROSS SECTIONS - SR823
STA. 471+50.00 TO STA. 472+00.00

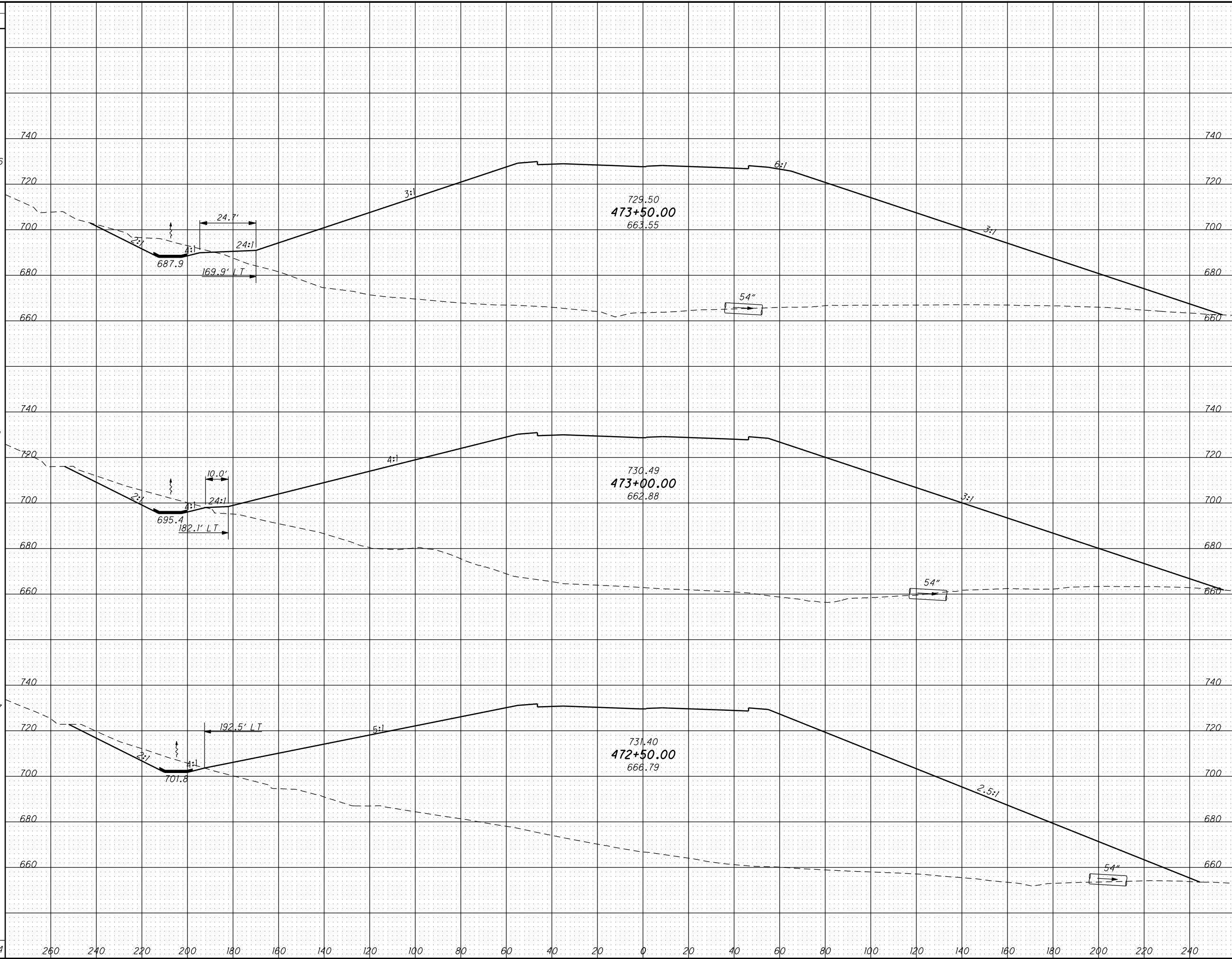
SCI-823-6.81

232
 535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:44:52 PM REVISION DATE: 9/15/2011
 FILE: \\hdrc\c\823\000000045878 MODEL1 Sheet

SEEDING

END WIDTH SO. YDS.
 7284 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240



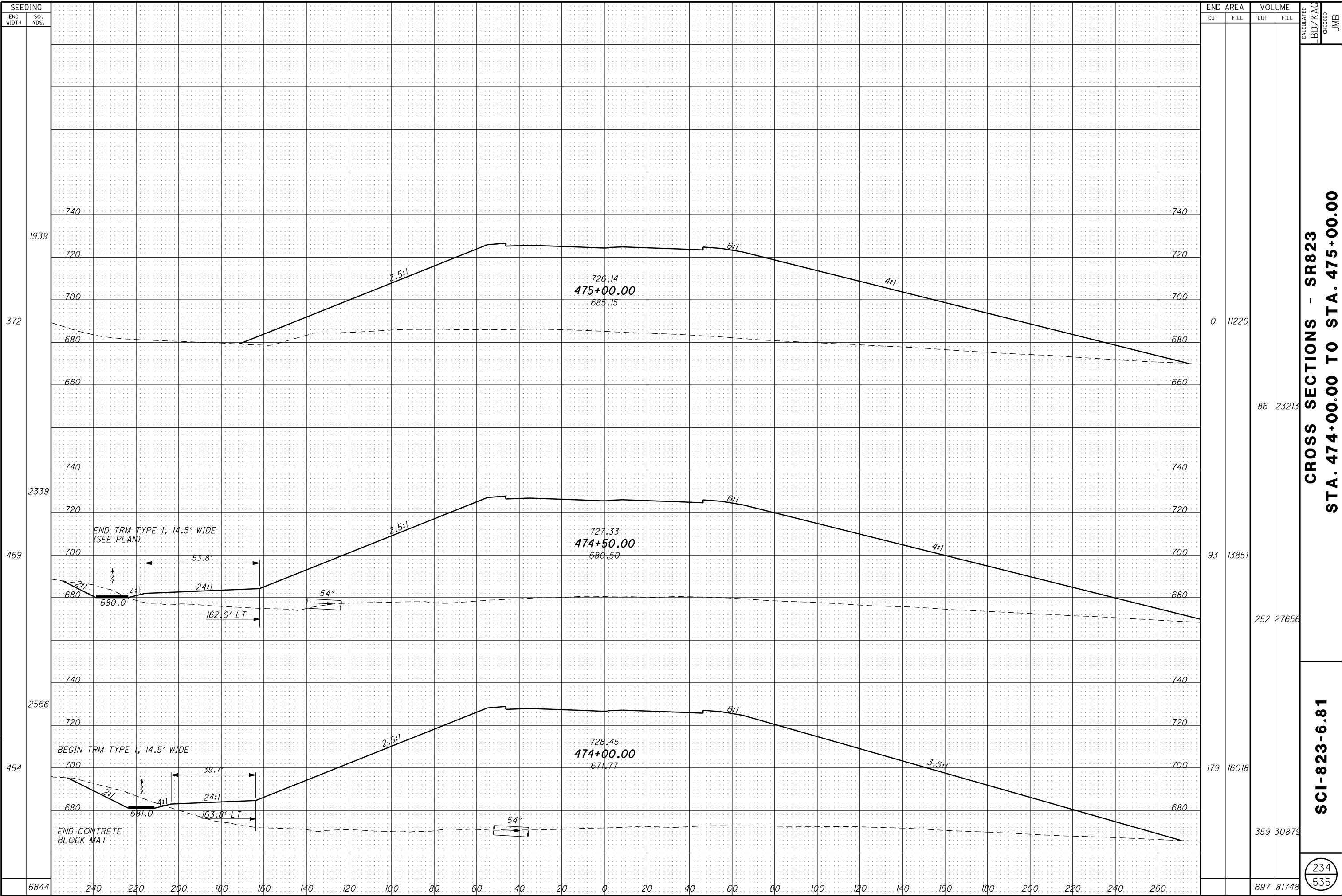
END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
2456						
428	209	17331	438	32876		
2411						
439	265	18175	464	33118		
2417						
429	237	17592	412	31157		
7284			1314	97151		

CROSS SECTIONS - SR823
 STA. 472+50.00 TO STA. 473+50.00

SCI-823-6.81

233
535

USER: C:\winbri\ PLOT DATE: 9/16/2011 3:45:11 PM REVISION DATE: 9/15/2011
 FILE: C:\HDR\CL\00000000045878 /915x5008.dgn MODEL: Sheet

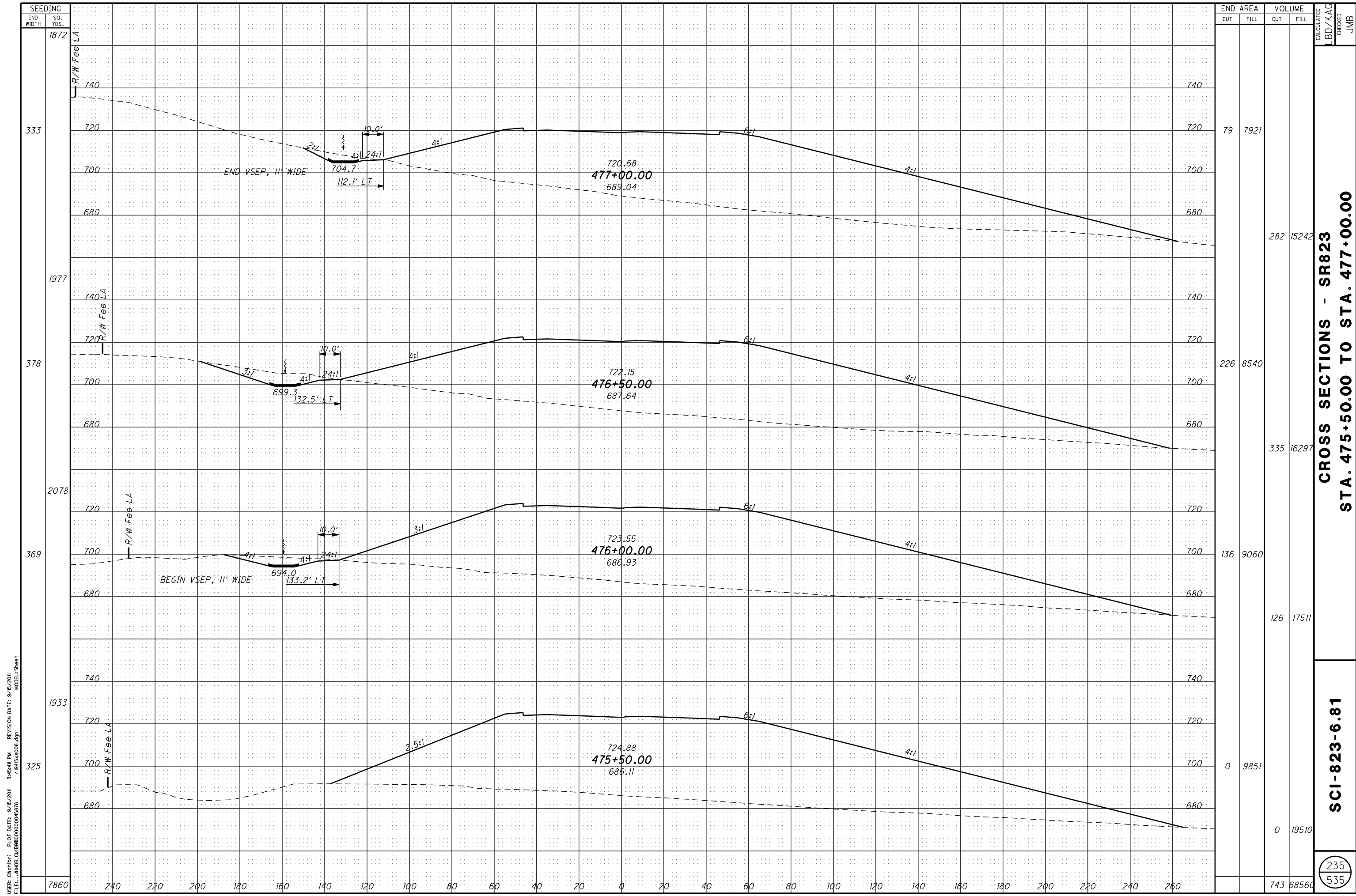


USER: C:\hp\l... PLOT DATE: 9/15/2011 3:45:29 PM REVISION DATE: 9/15/2011
 FILE: ... \HDR\CL\0000000045878 MODEL1 Sheet

**CROSS SECTIONS - SR823
 STA. 474+00.00 TO STA. 475+00.00**

SCI-823-6.81

234
535



USER: cwhhbr; PLOT DATE: 9/15/2011 3:45:48 PM REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p0000000045878_1\945x5008.dgn MODEL: Sheet

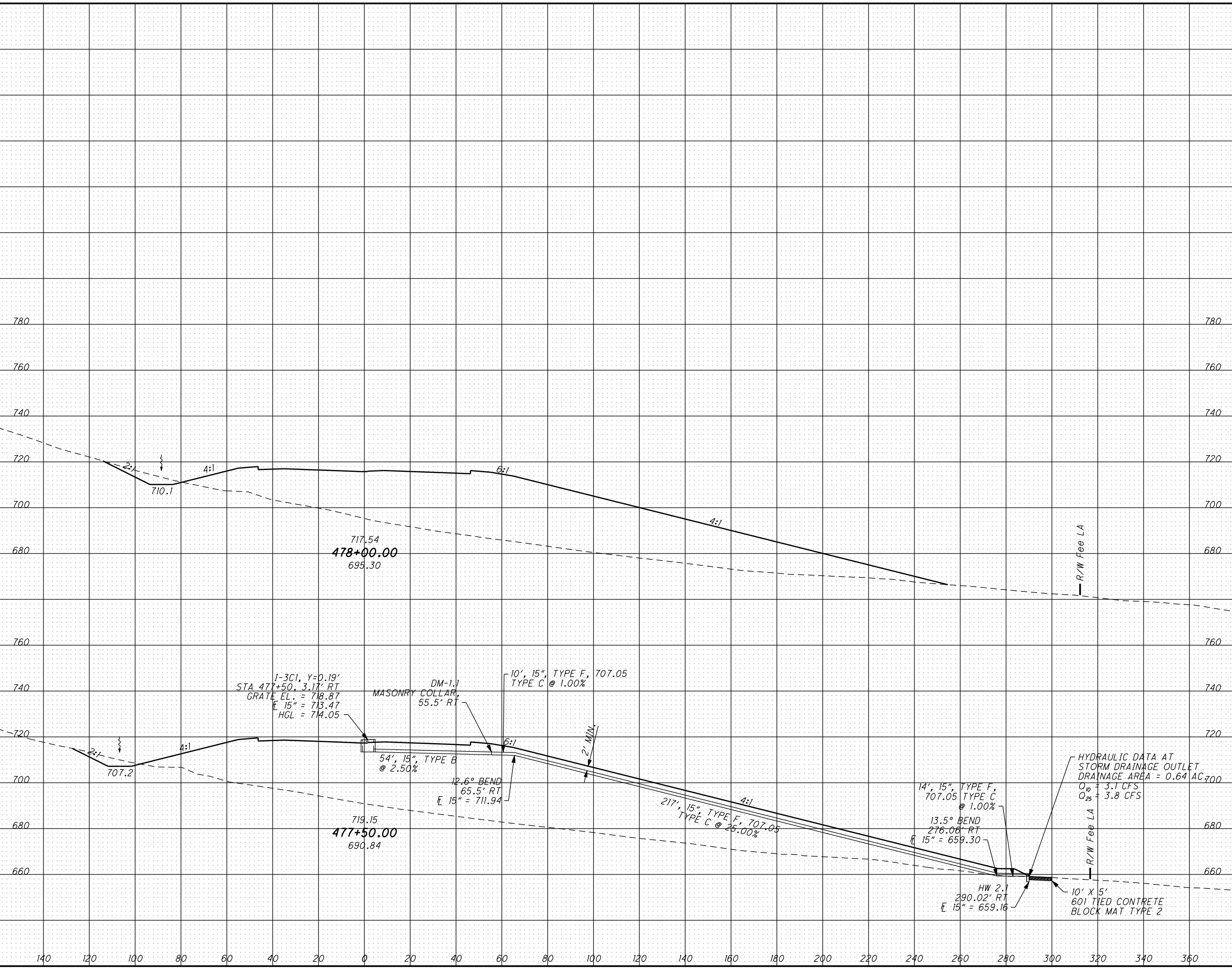
**CROSS SECTIONS - SR823
 STA. 475+50.00 TO STA. 477+00.00**

SCI-823-6.81

235
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:46:07 PM REVISION DATE: 9/15/2011
 FILE: \\hdrc\c\0000000045878_7\945x5008.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
3367	140
339	120
1745	100
288	80
1622	60
780	40
760	20
740	0
720	20
700	40
680	60
660	80
640	100
620	120
600	140



END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
79	5609				
133	12159				
64	7523				
133	14300				
266	26459				

CROSS SECTIONS - SR823
STA. 477+50.00 TO STA. 478+00.00

SCI-823-6.81

236
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:46:26 PM REVISION DATE: 9/15/2011
 FILE: \\HDR.C\BDD00000045878_7\945x500.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
1797	295

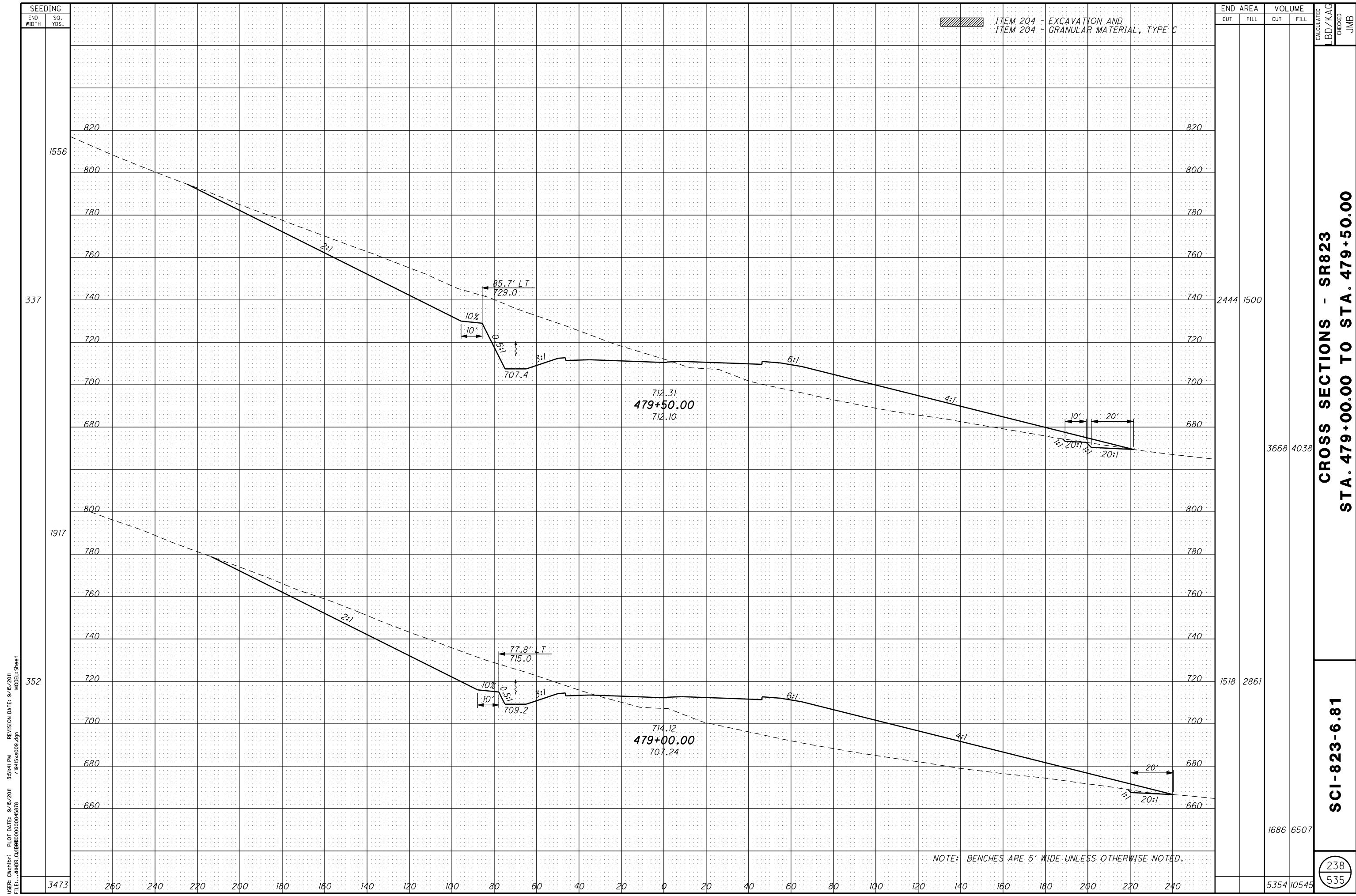


END AREA		VOLUME		CALCULATED LB/KAG	CHECKED JMB
CUT	FILL	CUT	FILL		
303	4167	354	9051		
354	9051				

**CROSS SECTIONS - SR823
 STA. 478+50.00 TO STA. 478+50.00**

SCI-823-6.81

237
535



SEEDING	
END WIDTH	SO. YDS.
1556	337
1917	352
3473	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
2444	1500	3668	4038
1518	2861	1686	6507
		5354	10545

CALCULATED
 LB/KAG
 CHECKED
 JMB

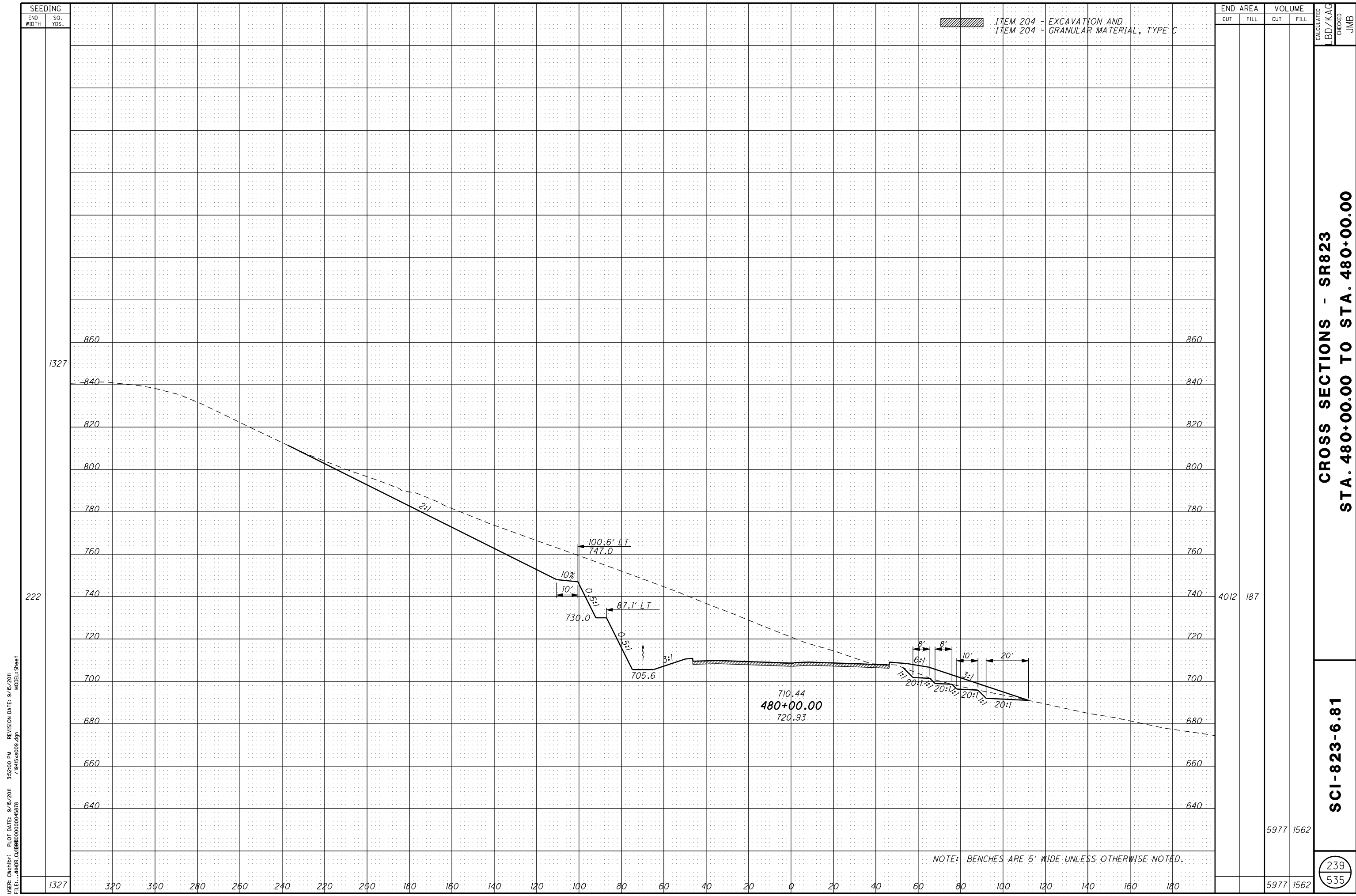
CROSS SECTIONS - SR823
STA. 479+00.00 TO STA. 479+50.00

SCI-823-6.81

238
 535

USER: C:\p\h\h\... PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: ... \915\ss009.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED BD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
1327							
222		4012	187				
		5977	1562				
1327				5977	1562		

CROSS SECTIONS - SR823
STA. 480+00.00 TO STA. 480+00.00

SCI-823-6.81

239
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:52:00 PM REVISION DATE: 9/15/2011
FILE: \\HDR\CL\0000000045878_7\945x500.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



USER: cwhhbr; PLOT DATE: 9/15/2011 3:52:19 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c\p\0000000045878_7\945x500.dgn MODEL Sheet

**CROSS SECTIONS - SR823
 STA. 480+50.00 TO STA. 480+50.00**

SCI-823-6.81

240
535

SEEDING

END WIDTH SO. YDS.

ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

END AREA VOLUME

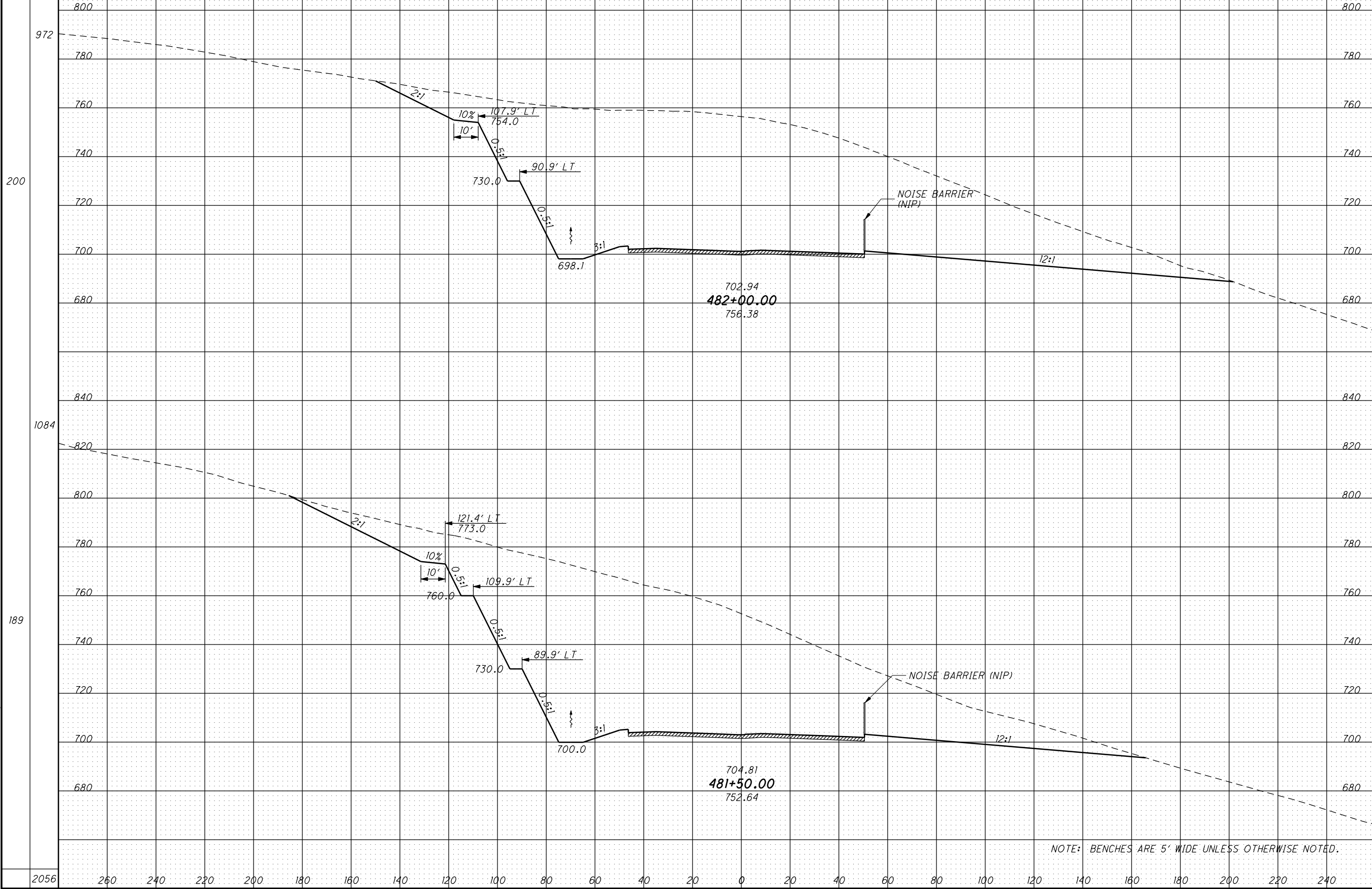
CUT	FILL	CUT	FILL
11342	0	20121	0
10389	0	17890	0
38011	0		

CALCULATED
LD/KAG
CHECKED
JMB

**CROSS SECTIONS - SR823
STA. 481+50.00 TO STA. 482+00.00**

SCI-823-6.81

242
535



702.94
482+00.00
756.38

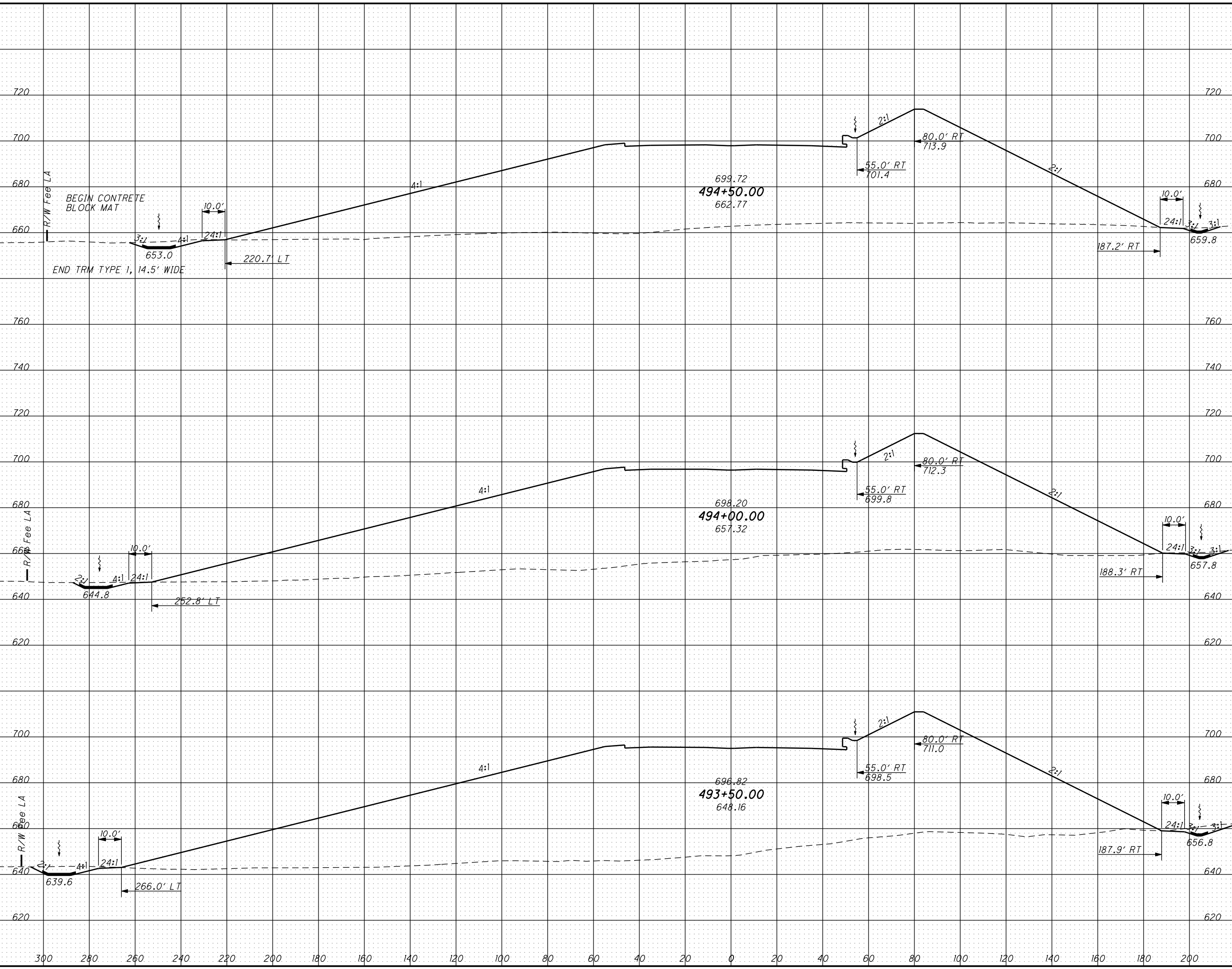
704.81
481+50.00
752.64

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

USER: C:\hp\l... PLOT DATE: 9/15/2011 3:52:56 PM REVISION DATE: 9/15/2011
FILE: ... \HDR\0000000045878 MODEL1 Sheet

USER: cwhhbr; PLOT DATE: 9/15/2011 3:54:50 PM REVISION DATE: 9/15/2011
 FILE: \\HDDR.C\BDD000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
720	2138
700	396
680	2284
660	425
640	2428
620	447
600	6850



END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	BD/KAG	JMB
92	10930								
158	21886								
79	12706								
209	25354								
147	14676								
257	28168								
624	75408								

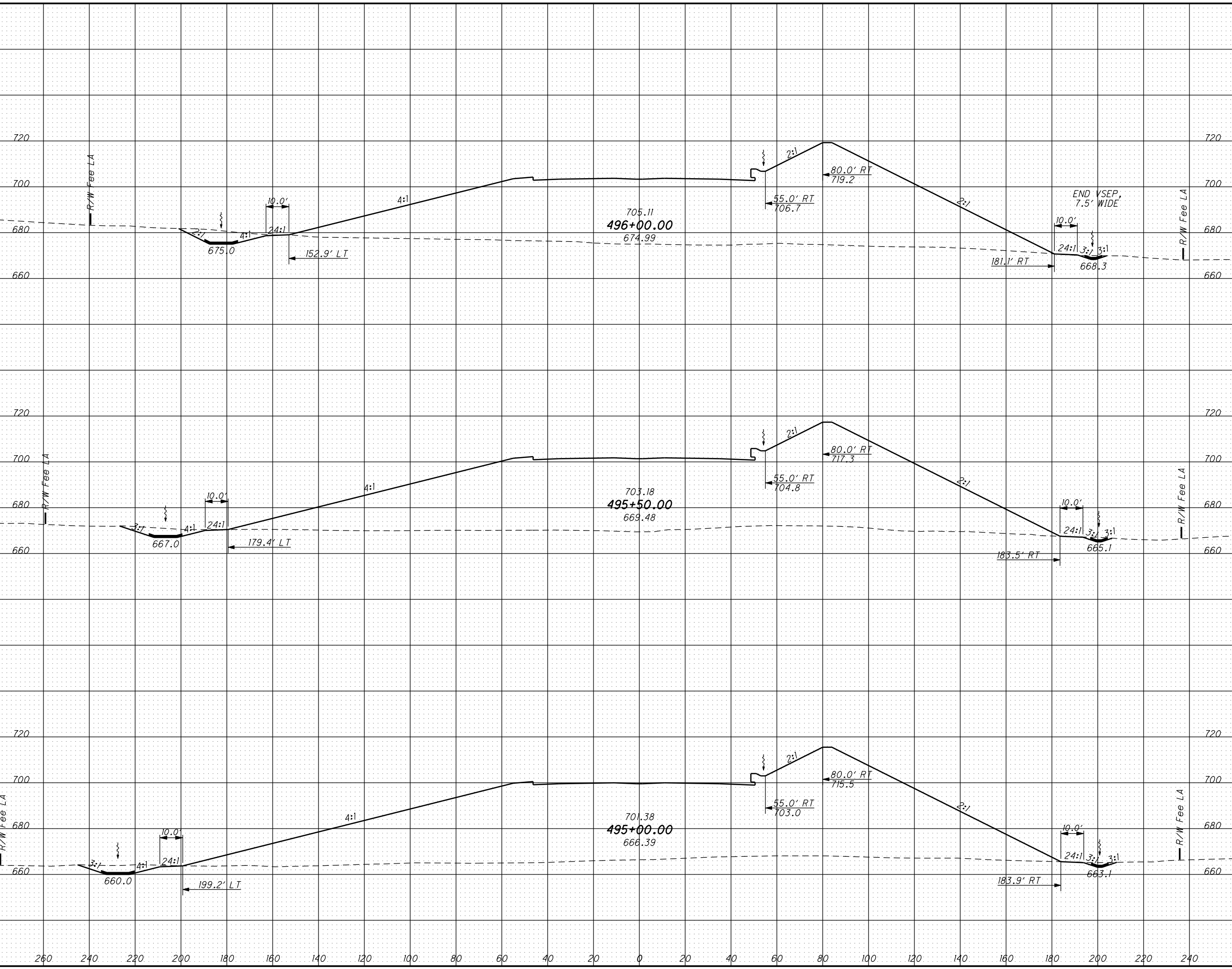
CROSS SECTIONS - SR823
STA. 493+50.00 TO STA. 494+50.00

SCI-823-6.81

248
535

USER: C:\hp\brt; PLOT DATE: 9/15/2011 3:55:09 PM REVISION DATE: 9/15/2011
 FILE: \\HPDR\CL\00000000045878 MODEL1 Sheet

SEEDING	
END WIDTH	SO. YDS.
720	1583
700	323
680	
660	
720	1873
700	351
680	
660	
720	2016
700	373
680	
660	
5472	



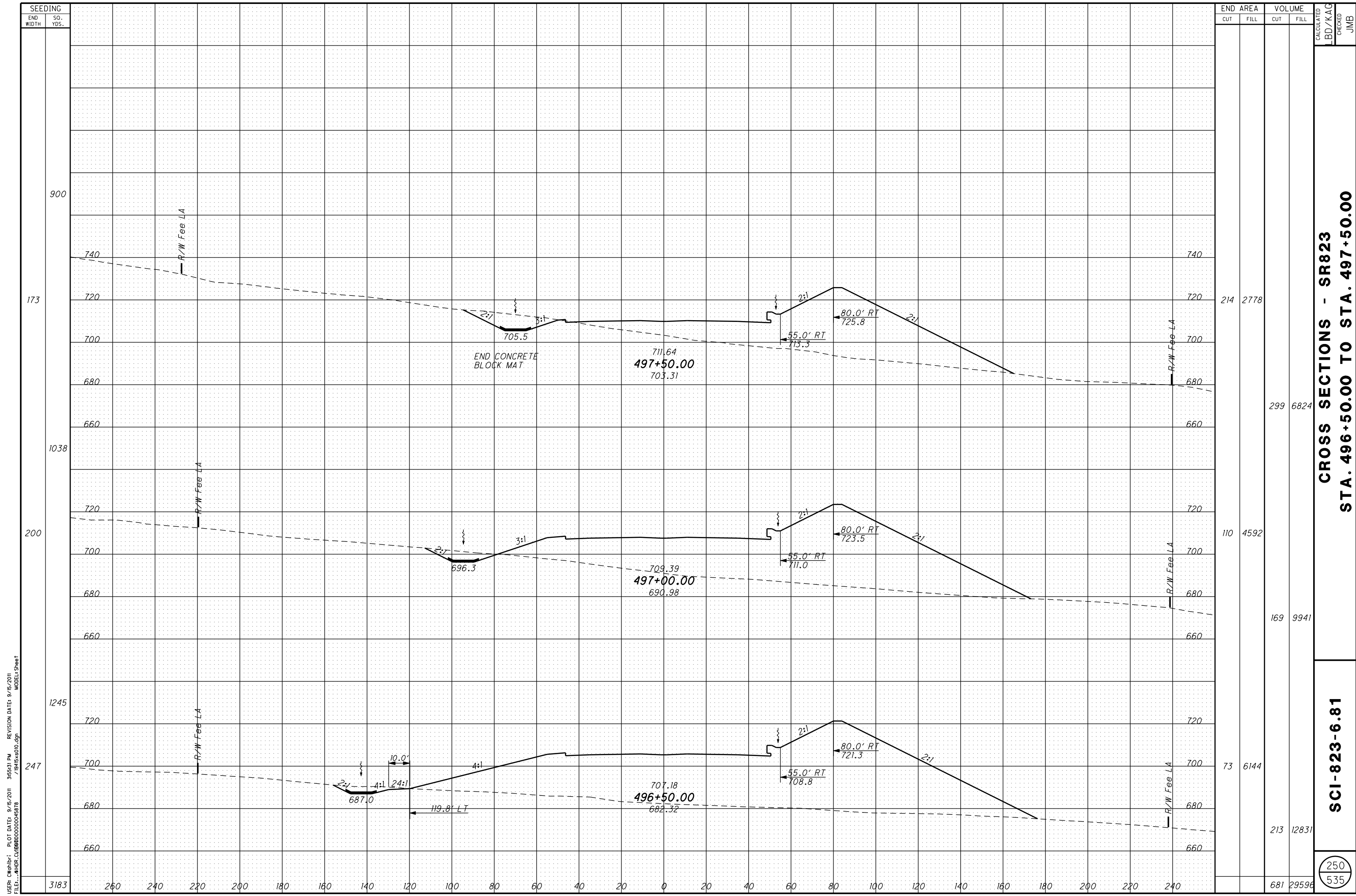
END AREA		VOLUME	
CUT	FILL	CUT	FILL
157	7714	251	15320
114	8832	215	17237
119	9784	195	19180
		661	51737

CALCULATED
 BD/KAG
 CHECKED
 JMB

**CROSS SECTIONS - SR823
 STA. 495+00.00 TO STA. 496+00.00**

SCI-823-6.81

(249)
 535



USER: C:\winbri; PLOT DATE: 9/15/2011 3:55:31 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\CAD\00000000045878_1\9415x810.dgn MODEL: Sheet

SEEDING	
END WIDTH	SO. YDS.
3183	
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

END STA	AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
	CUT	FILL	CUT	FILL		
214			2778			
299			6824			
619			9941			
73			6144			
213			12831			
681			29596			

CROSS SECTIONS - SR823
STA. 496+50.00 TO STA. 497+50.00

SCI-823-6.81

250
 535



ITEM 204 - EXCAVATION AND GRANULAR MATERIAL, TYPE C

SEEDING		END AREA		VOLUME		CALCULATED LBD/KAG	CHECKED JMB
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
628							
129		3357	389				
778				4445	1484		
151		1444	1214				
1406				1535	3696		
				5980	5180		

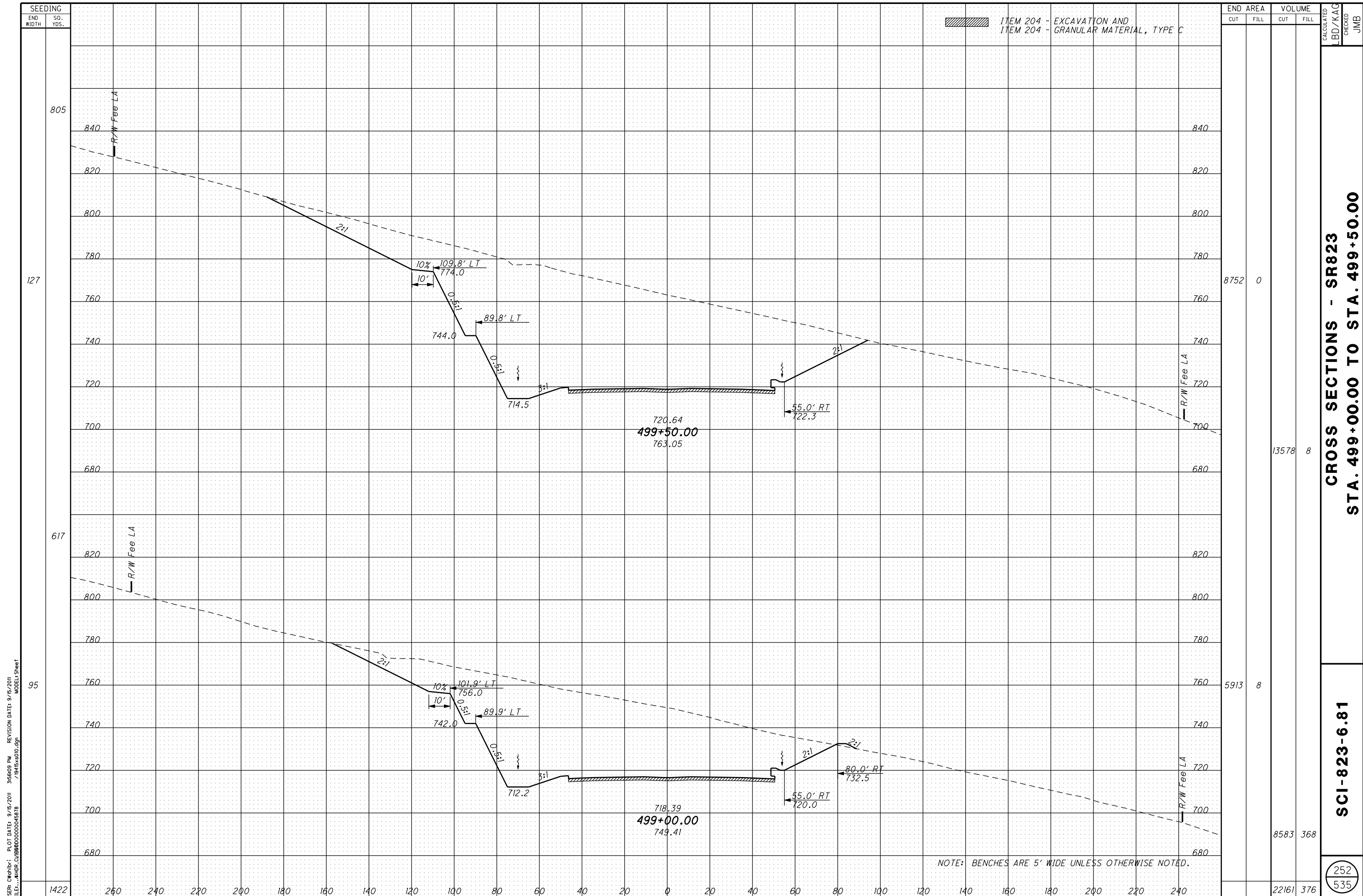
CROSS SECTIONS - SR823
STA. 498+00.00 TO STA. 498+50.00

SCI-823-6.81

251
535

USER: cwhhbr; PLOT DATE: 9/15/2011 3:55:40 PM REVISION DATE: 9/15/2011
FILE: \\hdh.c\p00000000045878_7\945x510.dgn MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



USER: cwhhbr; PLOT DATE: 9/15/2011 REVISION DATE: 9/15/2011
 FILE: \\hdh\c\p\0000000045878 MODEL1 Sheet

**CROSS SECTIONS - SR823
 STA. 499+00.00 TO STA. 499+50.00**

SCI-823-6.81

252
535

CALCULATED
BD/KAG
CHECKED
JMB



USER: cwhhbr; PLOT DATE: 9/15/2011 3:56:28 PM REVISION DATE: 9/15/2011
 FILE: \\hdh.c\p0000000045878_7\945x510.dgn MODEL: Sheet

CROSS SECTIONS - SR823
 STA. 500+00.00 TO STA. 500+00.00

SCI-823-6.81

253
535

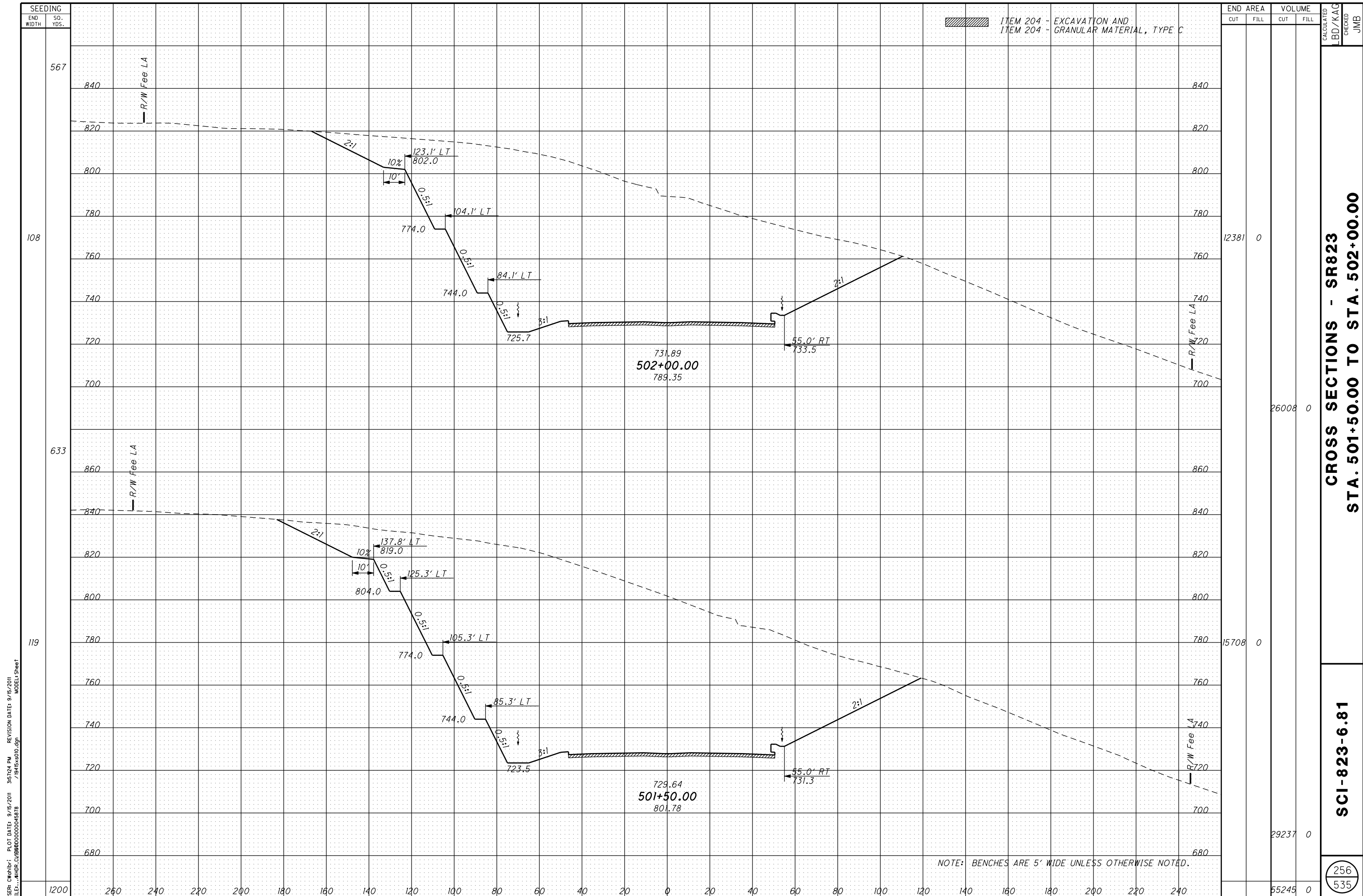


USER: cwhhbr; PLOT DATE: 9/15/2011 3:57:05 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c\00000000045878_1\945x500.dgn MODEL: Sheet

CROSS SECTIONS - SR823
STA. 501+00.00 TO STA. 501+00.00

SCI-823-6.81

255
535



SEEDING	
END WIDTH	SO. YDS.
1200	567
260	108
240	633
220	119
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12381	0		
26008	0		
15708	0		
29237	0		
55245	0		

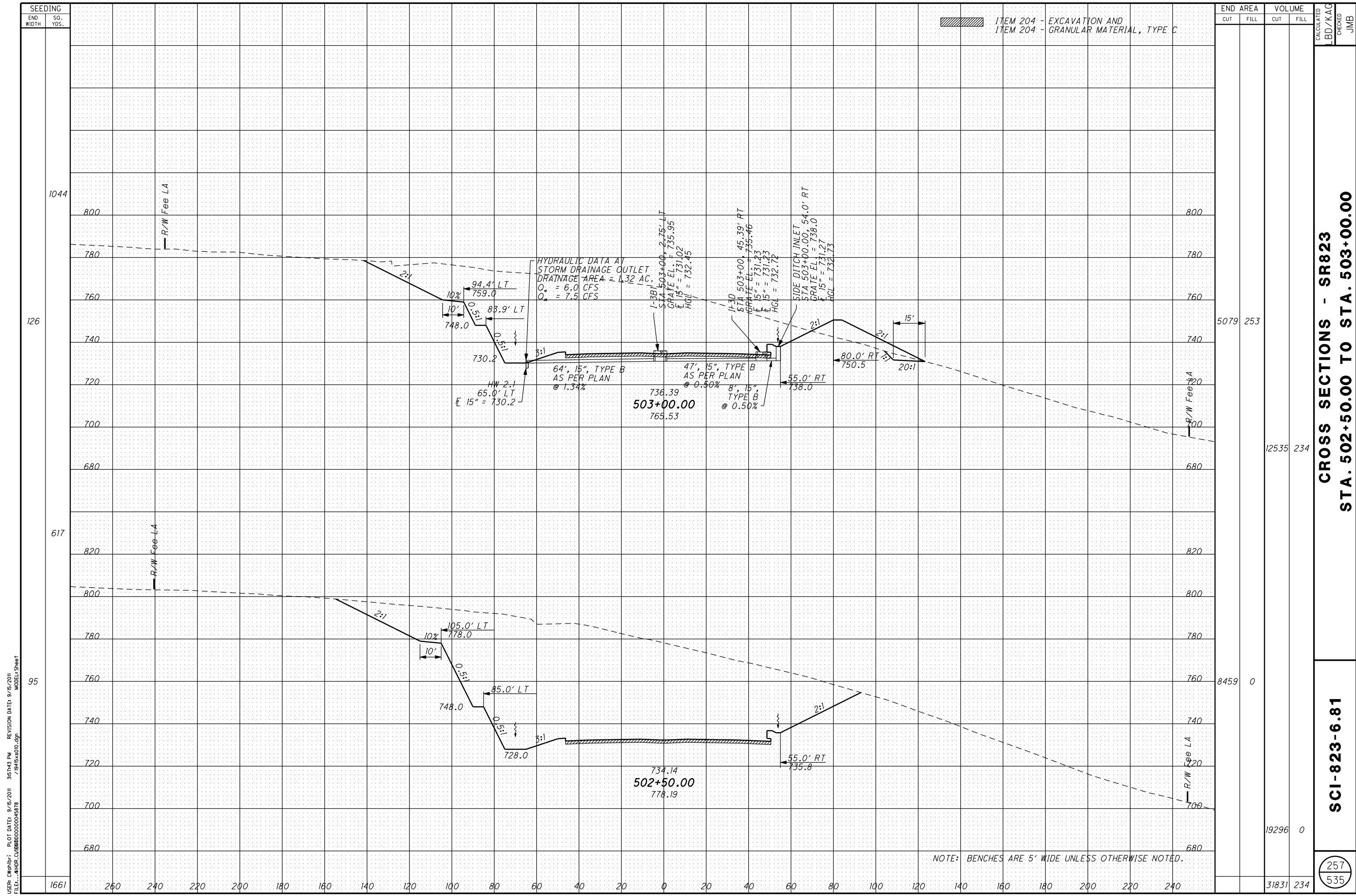
**CROSS SECTIONS - SR823
STA. 501+50.00 TO STA. 502+00.00**

SCI-823-6.81

256
535

USER: cwhhbr; PLOT DATE: 9/16/2011 3:57:24 PM REVISION DATE: 9/15/2011
FILE: \\hdh\CAD\2011\0000000045878_1\845x810.dwg MODEL: Sheet

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



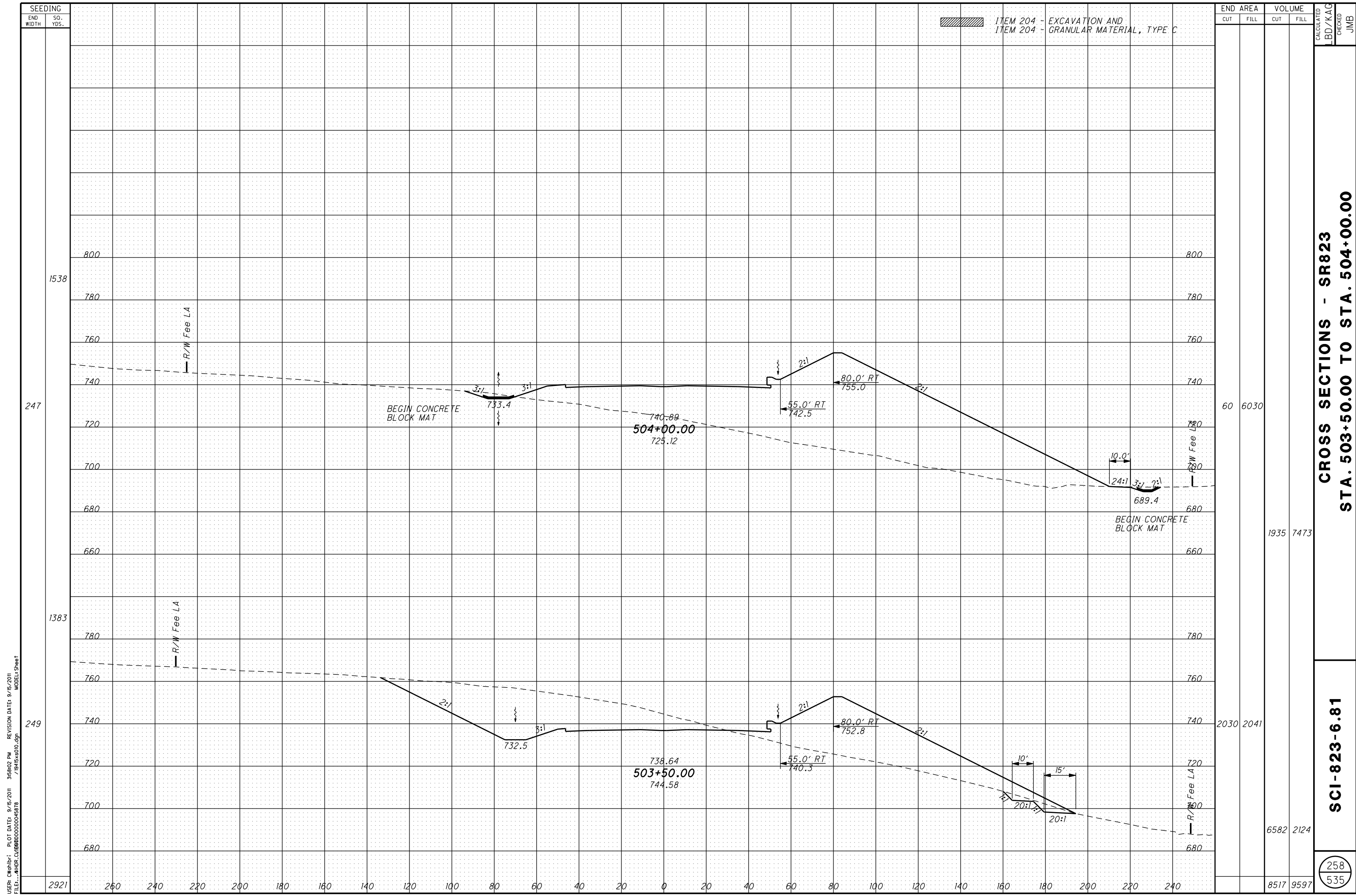
USER: cwhhbr; PLOT DATE: 9/16/2011 3:57:43 PM REVISION DATE: 9/15/2011
 FILE: \\hdh\c\p\00000000045878_1\945x500.dgn MODEL Sheet

CROSS SECTIONS - SR823
STA. 502+50.00 TO STA. 503+00.00

SCI-823-6.81

257
535

CALCULATED
LD/KAG
CHECKED
JMB



SEEDING	
END WIDTH	SO. YDS.
2921	
260	
240	
220	
200	
180	
160	
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
180	
200	
220	
240	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
60	6030	1935	7473
2030	2041	6582	2124
8517	9597		

CALCULATED
 BD/KAG
 CHECKED
 JMB

CROSS SECTIONS - SR823
STA. 503+50.00 TO STA. 504+00.00

SCI-823-6.81

258
 535

USER: C:\hp\l... PLOT DATE: 9/15/2011 3:58:02 PM REVISION DATE: 9/15/2011
 FILE: ... \1915x810.dgn MODEL: Sheet