PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station Y5	Uncl. Exc. (cu. meters)	Embt (cu. meters)	DDE (cu. meters)
9+24.000	0	0	0
9+40.000	168	2	0
9+60.000	239	3	0
9+80.000	288	2	0
10+00.000	303	2	0
10+20.000	302	15	0
10+40.000	280	80	0
10+60.000	240	243	0
10+80.000	216	524	0
11+00.000	195	919	0
11+20.000	170	1506	0
11+40.000	152	2322	0
11+60.000	153	3213	0
11+80.000	164	4121	0
12+00.000	178	5046	0
12+20.000	131	6052	0
12+40.000	37	6273	0
12+60.000	0	6391	0
12+80.000	0	6632	0
13+00.000	34	7646	0
13+20.000	55	9249	0
13+40.000	47	9345	64
13+60.000	61	8664	59
13+80.000	36	6318	0
13+89.254	0	1824	0
14+03.854	0	1692	0

Station Y5	Uncl. Exc. (cu. meters)	Embt (cu. meters)
14+50.918	0	0
14+66.854	0	2314
14+80.000	0	4759
15+00.000	44	6614
15+20.000	99	6778
15+40.000	114	6642
15+60.000	188	6151
15+80.000	251	5409
16+00.000	123	4682
16+20.000	0	3658
16+40.000	53	2923
16+60.000	175	2545
16+80.000	226	1951
17+00.000	105	1412
17+20.000	0	972
17+40.000	0	656
17+60.000	0	376
17+80.000	24	166
18+00.000	125	58
18+20.000	190	22
18+40.000	204	11
18+60.000	348	5
18+80.000	491	1

Station Y5	Uncl. Exc. (cu. meters)	Embt (cu. meters)
19+00.000	517	1
19+20.000	496	1
19+40.000	465	1
19+60.000	458	1
19+80.000	435	1
20+00.000	382	0
20+20.000	362	1
20+40.000	364	1

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+29.443	0	0
11+48.507	0	243
11+68.053	0	294
11+87.441	0	343
12+06.638	0	385
12+25.891	0	414
12+44.939	0	429
12+63.756	0	440
12+82.315	0	474
13+00.593	0	526
13+19.135	0	606

Station Rb	Uncl. Exc. (cu. meters)	Embt (cu. meters)
13+19.135	0	0
13+20.000	0	33
13+40.000	0	813
13+60.000	0	923
13+80.000	0	1030
14+00.000	0	1119
14+20.000	0	1265
14+40.000	0	1457
14+60.000	0	1639
14+80.000	0	1732
15+00.000	0	1729
15+20.000	0	1783
15+40.000	0	1896
15+60.000	0	1978
15+80.000	0	2073
16+00.000	0	2198
16+20.000	0	2363
16+40.000	0	3154
16+64.964	0	4801

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+23.727	0	0
11+43.711	0	677
11+63.948	0	700

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+84.060	0	811
12+04.029	0	1002
12+23.755	0	1341
12+43.158	0	1783
12+62.187	0	2250
12+81.183	0	2733
13+01.194	0	3235
13+21.185	0	3791

Station Rc	Uncl. Exc. (cu. meters)	Embt (cu. meters)
13+21.185	0	0
13+40.000	38	4644
13+60.000	40	5363
13+80.000	42	6055
14+00.000	54	6720
14+20.000	32	7380
14+40.000	0	7884
14+56.946	0	6818

Station Ra	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+06.021	0	0
10+20.000	0	4067
10+40.000	0	4303
10+60.000	0	2518
10+80.000	0	2001
11+00.000	0	1546
11+02.277	0	147

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+02.277	0	0
11+20.256	0	1152
11+38.322	0	969
11+57.254	0	843
11+76.220	0	738
11+95.831	0	663
12+15.157	0	610
12+34.763	0	551
12+54.560	0	517

Station Rd	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+06.139	0	0
10+20.000	0	5975
10+40.000	0	8379
10+60.000	0	6804
10+80.000	0	5346

Station Rd	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+00.000	0	5122
11+20.000	0	4891
11+40.000	0	4624
11+60.000	0	4355
11+80.000	0	4115
12+00.000	0	3820
12+20.000	0	3512
12+40.000	0	3277
12+60.000	0	2961
12+80.000	0	2618
13+00.000	0	2319
13+20.000	0	2024
13+40.000	0	1808
13+60.000	0	1658
13+62.234	0	177

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
13+62.234	0	0
13+81.712	0	1331
14+01.453	0	1182
14+20.977	0	1021
14+40.417	0	894
14+59.298	0	759
14+78.795	0	702
14+98.513	0	640
15+18.396	0	585
15+28.209	0	270
15+58.180	0	817

Station Sr5	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+00.000	0	0
10+20.000	212	6
10+40.000	303	9
10+60.000	354	12
10+80.000	355	8

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+80.000	0	0
10+95.070	251	0
11+15.070	313	0
11+35.070	333	0
11+55.070	338	0
11+75.070	244	6
11+95.070	157	41
12+15.070	100	114
12+35.070	75	179
12+55.070	69	215

PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
12+75.070	73	235
12+95.070	86	241
13+15.070	47	240
13+35.070	0	218
13+55.070	0	195
13+75.070	0	201
13+95.070	0	213
14+15.070	0	235
14+35.070	0	263
14+55.070	0	291
14+75.070	0	346
14+95.070	0	399
15+15.070	1	423
15+35.070	3	461
15+55.070	4	480
15+75.070	3	454
15+95.070	0	437
16+15.070	0	392
16+35.070	0	328
16+55.070	0	338
16+75.070	0	407
16+95.070	0	482
17+15.070	0	537
17+35.070	0	554
17+55.070	0	590
17+75.070	0	665
17+95.070	0	714
18+15.070	0	756
18+35.070	0	784
18+55.070	0	806
18+75.070	0	851
18+95.070	0	884
19+15.070	0	982
19+35.070	0	1113
19+55.070	0	1100
19+75.070	0	933
19+95.070	0	842
20+15.070	0	846
20+35.070	0	833
20+55.070	0	812
20+75.070	0	797
20+95.070	0	868
21+15.070	0	976
21+35.070	0	1051
21+55.070	0	1153
21+75.070	0	1240
21+95.070	0	1295
22+15.070	0	1353
22+35.070	0	1334
22+55.070	0	1257
22+75.070	0	1217
22+95.070	0	1198
23+15.070	0	1203

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
23+35.070	0	1178
23+55.070	0	1126
23+75.070	0	1039
23+95.070	0	903
24+15.070	0	808
24+35.070	0	694
24+55.070	0	592
24+75.070	0	543
24+95.070	0	526
25+15.070	0	541
25+35.070	0	570
25+55.070	0	662
25+75.070	0	730
25+95.070	0	794
26+15.070	0	890
26+35.070	0	868
26+55.070	0	828
26+75.070	0	843
26+95.070	0	863
27+15.070	0	924
27+35.070	0	985
27+55.070	0	1023
27+75.070	0	1044
27+95.070	0	1002
28+15.070	0	937
28+35.070	11	883
28+55.070	13	796
28+75.070	11	684
28+95.070	27	558
29+15.070	54	435
29+35.070	78	357
29+55.070	76	361
29+75.070	53	458
29+95.070	29	608
30+15.070	16	341
30+35.070	13	421
30+55.071	12	851
30+75.076	11	817
30+95.020	12	738

Station Sr5	Uncl. Exc. (cu. meters)	Embt (cu. meters)
30+95.020	0	0
31+00.000	3	171
31+20.000	7	619
31+40.000	0	523
31+60.000	0	472
31+80.000	0	466
32+00.000	0	474
32+20.000	0	492
32+40.000	0	516
32+60.000	0	532

Station Sr5	Uncl. Exc. (cu. meters)	Embt (cu. meters)
32+80.000	0	537
33+00.000	0	551
33+20.000	0	552
33+40.000	0	550
33+60.000	0	575
33+80.000	0	569
34+00.000	0	531
34+20.000	0	559
34+40.000	0	616
34+60.000	0	638
34+80.000	0	640
35+00.000	0	668
35+20.000	0	652
35+40.000	0	551
35+60.000	0	435
35+80.000	0	306
36+00.000	0	211
36+20.000	0	215
36+40.000	0	269
36+60.000	0	318
36+80.000	0	345
37+00.000	0	357
37+20.000	0	470
37+40.000	42	420
37+60.000	90	219
37+80.000	102	155
38+00.000	122	115
38+20.000	150	75
38+40.000	227	28
38+60.000	371	0
38+79.318	217	0

Station Y	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+05.000	0	0
10+20.000	121	0
10+40.000	166	22
10+60.000	116	41
10+80.000	164	57
11+00.000	166	108
11+20.000	94	201
11+40.000	21	396
11+60.000	0	748
11+80.000	0	1160
12+00.000	0	1572
12+20.000	0	2028
12+40.000	0	2554
12+60.000	0	3138
12+80.000	0	3687
13+00.000	0	4168
13+20.000	0	4719
13+40.000	0	5379

Station Y	Uncl. Exc. (cu. meters)	Embt (cu. meters)
13+60.000	0	6033
13+80.000	0	6663
14+00.000	0	7240
14+20.000	0	7659
14+40.000	0	7968
14+60.000	0	8209
14+80.000	0	8450
15+00.000	0	8908
15+20.000	0	8494
15+40.000	0	6925
15+44.014	0	1915
15+55.478	0	1740

Station Y	Uncl. Exc. (cu. meters)	Embt (cu. meters)
16+13.594	0	0
16+24.261	0	1436
16+40.000	0	4615
16+60.000	0	5781
16+80.000	0	6073
17+00.000	0	5622
17+20.000	0	4889
17+40.000	0	4051
17+60.000	0	3223
17+80.000	3	2499
18+00.000	13	1857
18+20.000	30	1324
18+40.000	30	929
18+60.000	26	618
18+80.000	54	368
19+00.000	57	190
19+20.000	75	64
19+40.000	121	17
19+60.000	124	12
19+70.000	29	2

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
153+80.000	0	0
154+00.000	0	2276
154+20.000	0	2281
154+40.000	0	2258
154+60.000	0	2176
154+80.000	0	2061
155+00.000	0	1907
155+20.000	0	1856
155+40.000	0	2047
155+60.000	0	2174
155+80.000	0	2127
156+00.000	0	2065
156+20.000	0	1953

PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-C

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
156+40.000	0	1848
156+60.000	0	1852
156+80.000	0	1890
157+00.000	0	1924
157+20.000	0	1970
157+40.000	0	2040
157+60.000	0	2123
157+80.000	0	2203
158+00.000	0	2324
158+20.000	0	2443
158+40.000	0	2531
158+60.000	0	2605
158+80.000	3	2506
159+00.000	3	2325
159+20.000	0	2227
159+40.000	0	2109
159+60.000	0	1971
159+80.000	0	1971
160+00.000	0	2101
160+20.000	0	2254
160+40.000	0	2376
160+60.000	0	2402
160+80.000	0	2476
161+00.000	0	2620
161+20.000	0	2636
161+40.000	0	2534
161+60.000	0	2460
161+80.000	0	2402
162+00.000	0	2286
162+20.000	0	2115
162+40.000	0	2024
162+60.000	0	1969
162+80.000	0	1768

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
162+80.000	0	0
163+00.000	0	1564
163+20.000	0	1467
163+40.000	0	1349
163+60.000	0	1281
163+80.000	0	1283
164+00.000	0	1354
164+20.000	0	1425
164+40.000	0	1538
164+60.000	0	1677
164+80.000	0	1795
165+00.000	0	1894
165+20.000	0	2002
165+40.000	0	2132
165+60.000	0	2100
165+80.000	0	1998

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
166+00.000	0	1906
166+20.000	0	1819
166+40.000	4	1741
166+60.000	15	1694
166+80.000	23	1785
167+00.000	14	1930
167+20.000	7	1981
167+40.000	14	1904
167+60.000	41	1727
167+80.000	89	1519
168+00.000	121	1379
168+20.000	129	1343
168+40.000	141	1320
168+60.000	122	1294
168+80.000	47	1288
169+00.000	0	1285
169+20.000	0	1274
169+40.000	0	1283
169+60.000	0	1322
169+80.000	0	1313
170+00.000	0	1270
170+20.000	0	1432
170+40.000	0	1711
170+60.000	0	1791
170+80.000	0	1782
171+00.000	0	1780
171+20.000	0	1760
171+40.000	0	1733
171+60.000	0	1721
171+80.000	0	1663

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
171+80.000	0	0
172+00.000	0	1472
172+20.000	2	1359
172+40.000	16	1157
172+60.000	42	982
172+80.000	73	980
173+00.000	61	1303
173+20.000	20	1827
173+40.000	4	2254
173+60.000	0	2527
173+80.000	0	2591
174+00.000	0	2587
174+20.000	0	2533
174+40.000	0	2334
174+60.000	0	2174
174+80.000	0	2135
175+00.000	0	2178

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
175+00.000	0	0
175+20.000	0	1929
175+40.000	0	1549
175+60.000	0	1533
175+80.000	0	1641
176+00.000	0	1693
176+20.000	0	1710
176+40.000	0	1683
176+60.000	0	1590
176+80.000	0	1483
177+00.000	0	1375
177+20.000	0	1266

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
177+20.000	0	0
177+40.000	0	1179
177+60.000	0	1152
177+80.000	0	1188
178+00.000	0	1241
178+20.000	0	1260
178+40.000	0	1231
178+60.000	0	1171
178+80.000	0	1090
179+00.000	0	988
179+20.000	0	900
179+40.000	24	877
179+60.000	48	889
179+80.000	62	927
180+00.000	81	994
180+20.000	87	1109
180+40.000	82	1242
180+60.000	71	1345
180+80.000	69	1353
180+90.000	86	629

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
180+90.000	0	0
181+00.000	46	572
181+20.000	86	1103
181+40.000	52	1193
181+60.000	15	1361
181+80.000	0	1523
182+00.000	0	1672
182+20.000	0	1820
182+40.000	0	1870
182+60.000	0	1836
182+80.000	0	1766
183+00.000	0	1942
183+20.000	0	2123

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
183+20.000	0	0
183+40.000	0	2361
183+60.000	0	2622
183+80.000	0	2560
184+00.000	0	2491
184+20.000	0	2397
184+40.000	0	2311
184+60.000	0	2265
184+80.000	0	2168
185+00.000	0	2010
185+20.000	0	1877
185+40.000	0	1799
185+60.000	0	1790
185+80.000	0	1847
186+00.000	0	1868
186+20.000	0	1886
186+40.000	0	1801
186+60.000	0	1680
186+80.000	0	1683
187+00.000	0	1652
187+20.000	0	1647
187+40.000	0	1802
187+60.000	0	1958
187+80.000	0	2055
188+00.000	0	2136
188+20.000	0	2134
188+40.000	0	2110
188+60.000	0	2073
188+80.000	0	1931
189+00.000	0	1803
189+20.000	0	1745
189+40.000	0	1814
189+60.000	0	1830
189+80.000	0	1696
189+90.000	0	832

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
189+90.000	0	0
190+00.000	0	848
190+20.000	0	1667
190+40.000	0	1594
190+60.000	0	1567
190+80.000	0	1516
191+00.000	0	1473
191+20.000	0	1500
191+40.000	0	1497
191+60.000	0	1492
191+80.000	0	1501
192+00.000	0	1499
192+20.000	0	1513
192+40.000	0	1530

PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-D

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

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NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
192+60.000	0	1556
192+80.000	0	1607
193+00.000	0	1663
193+20.000	0	1696
193+40.000	0	1735
193+60.000	0	1825
193+80.000	0	1925
194+00.000	0	1967
194+20.000	0	2016
194+40.000	0	2104
194+60.000	0	2174
194+80.000	0	2208
195+00.000	0	2245
195+20.000	0	2297
195+40.000	0	2334
195+60.000	0	2304
195+80.000	0	2190
196+00.000	0	2032
196+20.000	5	1879
196+40.000	17	1803
196+60.000	23	1823
196+80.000	33	1845
197+00.000	37	1841
197+20.000	45	1817
197+40.000	73	1778
197+60.000	102	1736
197+80.000	107	1797
198+00.000	87	1975
198+20.000	111	2102
198+40.000	157	2116
198+60.000	202	2012
198+80.000	276	1963
198+90.000	166	994

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
198+90.000	0	0
199+00.000	186	963
199+20.000	425	1823
199+40.000	455	1790
199+60.000	447	1951
199+80.000	373	2091
200+00.000	342	2125
200+20.000	476	2275
200+40.000	292	2121
200+60.000	0	1838
200+80.000	0	1814
201+00.000	0	1768
201+20.000	0	1692
201+40.000	0	1589
201+60.000	0	1486
201+80.000	0	1381

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
202+00.000	0	1423
202+20.000	0	1477
202+40.000	0	1467
202+60.000	0	1555
202+80.000	0	1686
203+00.000	0	1779
203+20.000	0	1815
203+40.000	0	1780
203+60.000	0	1773
203+80.000	0	1898
204+00.000	0	1978
204+20.000	0	1953
204+40.000	0	1996
204+60.000	0	2090
204+80.000	0	2137
205+00.000	0	2209
205+20.000	14	2305
205+40.000	39	2325
205+60.000	64	2307
205+80.000	108	2266
206+00.000	174	2161
206+20.000	247	2123
206+40.000	179	2055
206+60.000	37	1854
206+80.000	0	1695
207+00.000	0	1642
207+20.000	0	1630
207+40.000	0	1619
207+60.000	0	1590
207+80.000	0	1534
207+90.000	0	743

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)	UNDERCUT (cu. meters)
207+90.000	0	0	0
208+00.000	0	731	0
208+20.000	0	1486	0
208+40.000	0	1598	0
208+60.000	125	1886	0
208+80.000	276	2067	0
209+00.000	151	1841	0
209+20.000	0	1550	0
209+40.000	0	1272	0
209+60.000	0	1017	0
209+80.000	0	887	0
210+00.000	0	822	32
210+20.000	0	824	38
210+40.000	0	824	36
210+60.000	0	800	34
210+80.000	0	760	36
211+00.000	0	721	36
211+20.000	0	665	52

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)	UNDERCUT (cu. meters)
211+40.000	0	620	57
211+60.000	0	605	54
211+80.000	0	660	45
212+00.000	0	737	30
212+20.000	0	744	34
212+40.000	0	750	35
212+60.000	0	785	30
212+80.000	0	824	25
213+00.000	0	812	27
213+20.000	0	779	30
213+40.000	0	751	38
213+60.000	0	751	34
213+80.000	0	804	7
214+00.000	0	900	0
214+20.000	0	1050	0
214+40.000	0	1312	0
214+60.000	0	1527	0
214+80.000	0	1696	0
215+00.000	0	1859	0
215+20.000	0	1975	0
215+40.000	0	2100	0
215+60.000	0	2267	0
215+80.000	0	2250	0
216+00.000	0	1979	0
216+20.000	0	1648	0
216+40.000	0	1315	0
216+60.000	0	1055	0
216+80.000	0	874	0
216+90.000	0	410	0

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
216+90.000	0	0
217+00.000	0	408
217+20.000	0	898
217+40.000	0	1315
217+60.000	0	1711
217+80.000	0	1798
218+00.000	0	1899
218+20.000	0	1946
218+40.000	0	1871
218+60.000	0	1850
218+80.000	0	1827
219+00.000	0	1745
219+20.000	0	1689
219+40.000	0	1671
219+60.000	0	1682
219+80.000	0	1728
220+00.000	0	1767
220+20.000	0	1763
220+40.000	0	1803
220+60.000	0	1877

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
220+80.000	0	1882
221+00.000	0	1998
221+20.000	0	2202
221+40.000	0	2353
221+60.000	0	2478
221+80.000	0	2535
222+00.000	0	2609
222+20.000	0	2775
222+40.000	0	2876
222+60.000	0	2853
222+80.000	0	2858
223+00.000	0	2853
223+20.000	0	2678
223+40.000	0	2245
223+60.000	0	1825
223+80.000	0	1552
224+00.000	0	1364
224+20.000	0	1478
224+40.000	0	1800
224+60.000	0	2067
224+80.000	0	2235
225+00.000	0	2347
225+20.000	0	2370
225+40.000	0	2229
225+60.000	0	2111
225+80.000	0	2103
225+90.000	0	1063

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
225+90.000	0	0
226+00.000	0	1086
226+20.000	0	2254
226+40.000	0	2422
226+60.000	0	2614
226+80.000	0	2816
227+00.000	0	3027
227+20.000	0	3243
227+40.000	0	3386
227+60.000	0	2995
227+80.000	0	2363
228+00.000	0	1882
228+20.000	0	1332
228+40.000	0	952
228+60.000	0	1001
228+80.000	0	1309
229+00.000	0	1782
229+20.000	0	2299
229+40.000	0	2696
229+60.000	0	3045
229+80.000	0	3088
230+00.000	0	2743

PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-E

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
230+20.000	0	2354
230+40.000	0	2153
230+60.000	0	2139
230+80.000	0	2195
231+00.000	0	2206
231+20.000	0	2167
231+40.000	0	2143
231+60.000	0	2099
231+80.000	0	2008
232+00.000	0	1927
232+20.000	0	1874
232+40.000	0	1839
232+60.000	0	1760
232+80.000	0	1740
233+00.000	0	1848
233+20.000	0	1873
233+40.000	0	1806
233+60.000	0	1836
233+80.000	0	1852
234+00.000	0	1797
234+20.000	0	1741
234+40.000	0	1640
234+60.000	0	1518
234+80.000	0	1320
234+90.000	0	576

Station L	Uncl. Exc. (cu. meters)	Embt (cu. meters)
234+90.000	0	0
235+00.000	0	538
235+20.000	0	1015
235+40.000	0	933
235+60.000	0	885
235+80.000	0	914
236+00.000	0	944
236+20.000	0	923
236+20.279	0	12

Station Dr29	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+06.083	0	0
10+10.000	0	12
10+20.000	0	1423
10+30.000	0	890
10+40.000	0	567
10+50.000	0	414
10+60.000	0	290
10+70.000	0	189
10+80.000	0	107
10+90.000	0	49
11+00.000	0	15

Station Dr29	Uncl. Exc. (cu. meters)	Embt (cu. meters)
11+16.616	0	0

Station Dr29A	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+06.000	0	0
10+10.000	0	18
10+20.000	0	1649
10+30.000	0	785
10+40.000	0	579
10+50.000	0	428
11+04.455	0	36

Station Dr29B	Uncl. Exc. (cu. meters)	Embt (cu. meters)
10+09.600	0	0
10+10.000	0	0
10+20.000	0	312
10+30.000	0	125
10+40.000	0	53
10+50.000	2	16
10+55.000	2	0

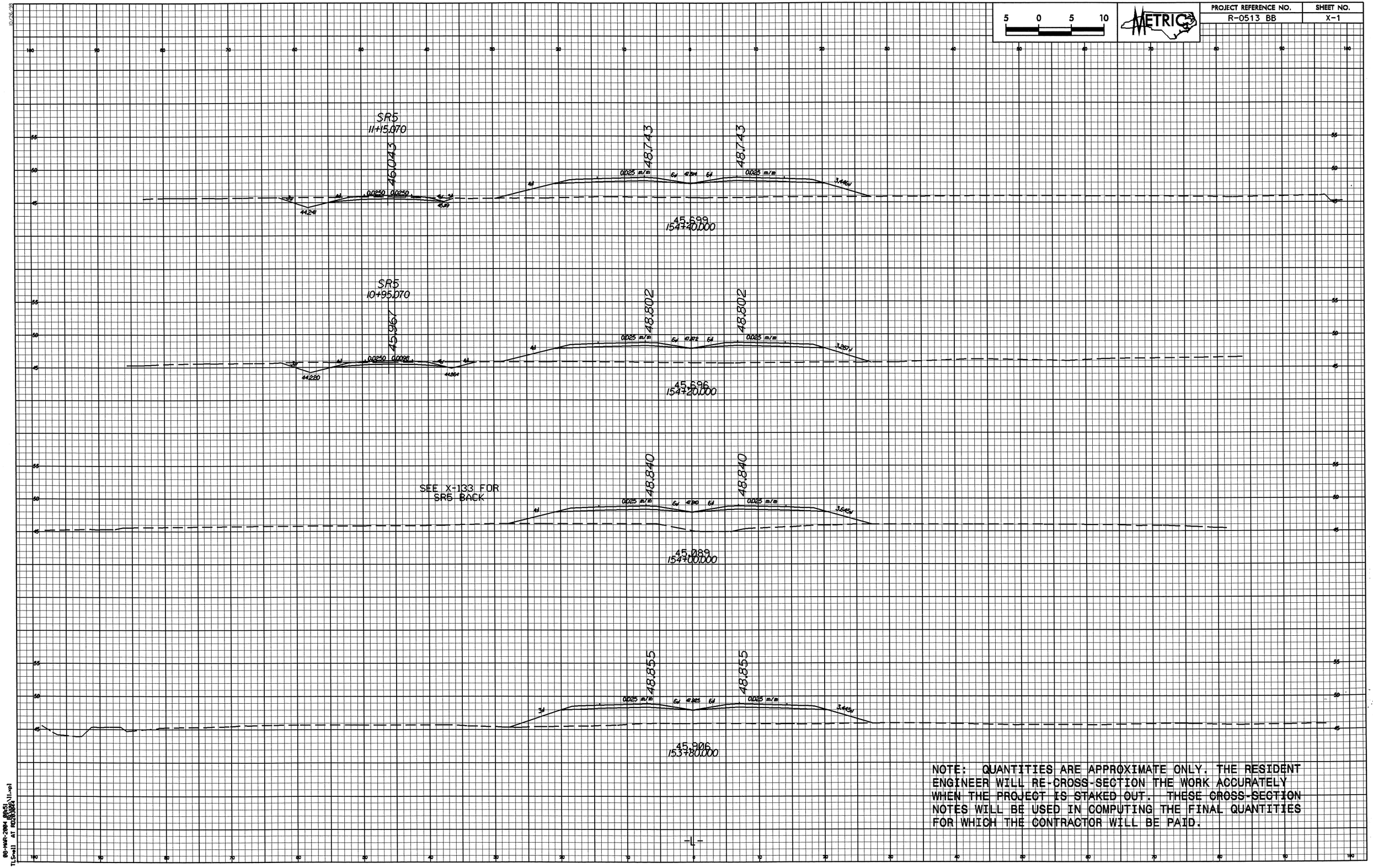
PROJ. REFERENCE NO.	SHEET NO.
R-0513BB	X-F

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION INDEX

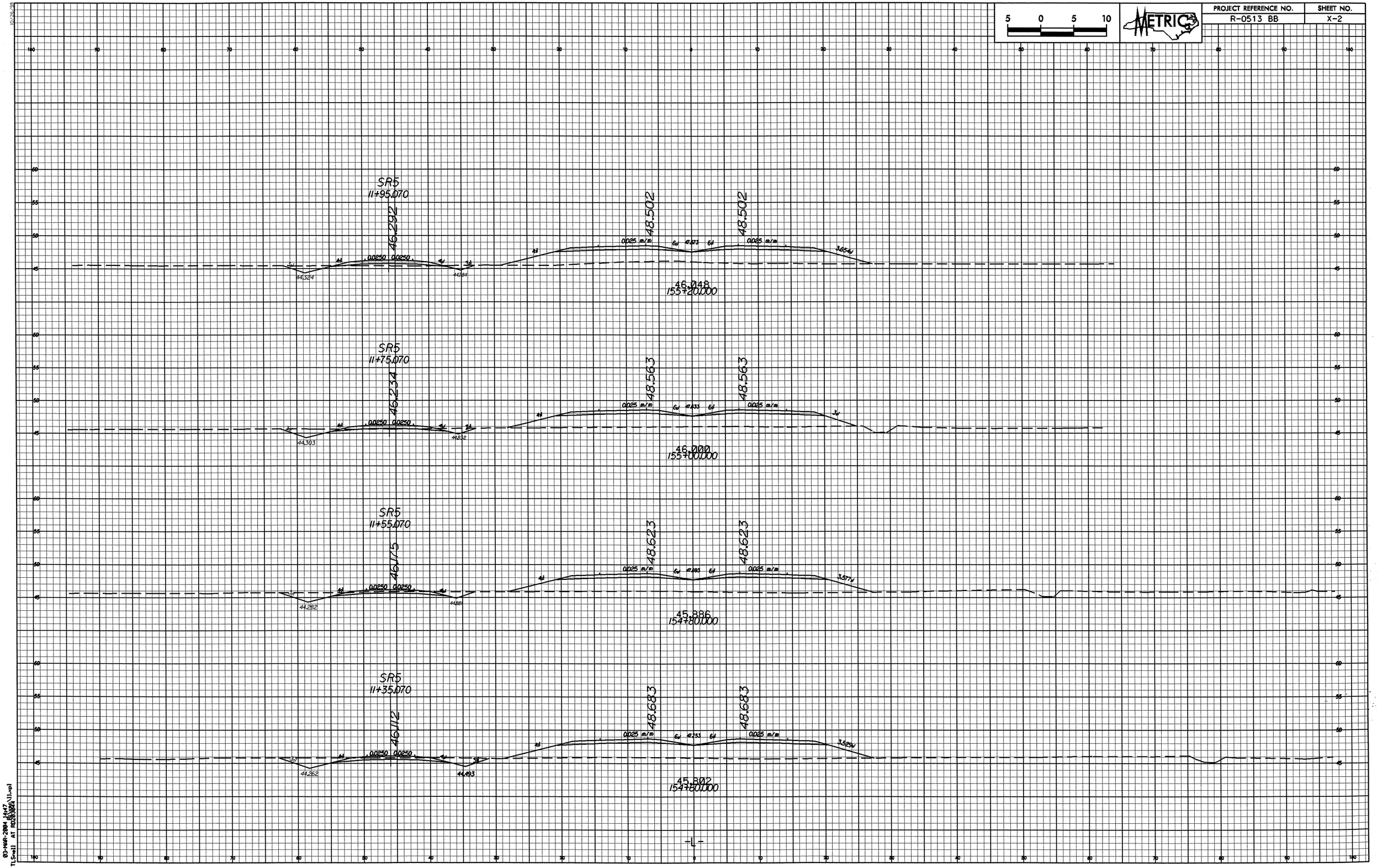
CROSS SECTION SUMMARY OF EARTHWORK	X-A TO X-F
L	X-1 TO X-93
Y	X-94 TO X-105
Y5	X-106 TO X-119
RAMP A	X-120 TO X-121
RAMP B	X-122 TO X-125
RAMP C	X-126 TO X-127
RAMP D	X-128 TO X-132
SR5	X-133 TO X-141
DR29	X-142 TO X-144
DR29A	X-145 TO X-146
DR29B	X-147

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-1



NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS-SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID.

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-2



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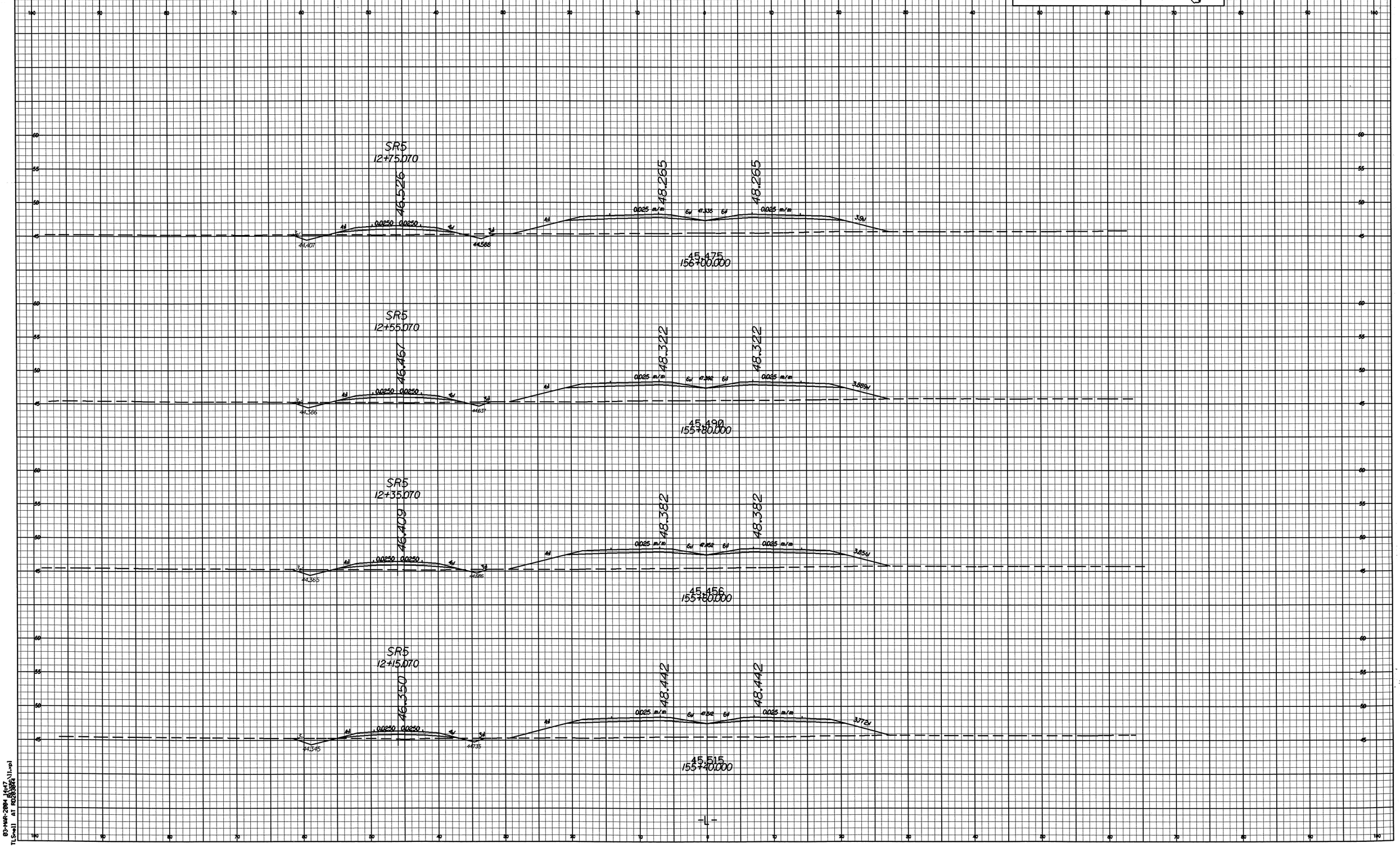
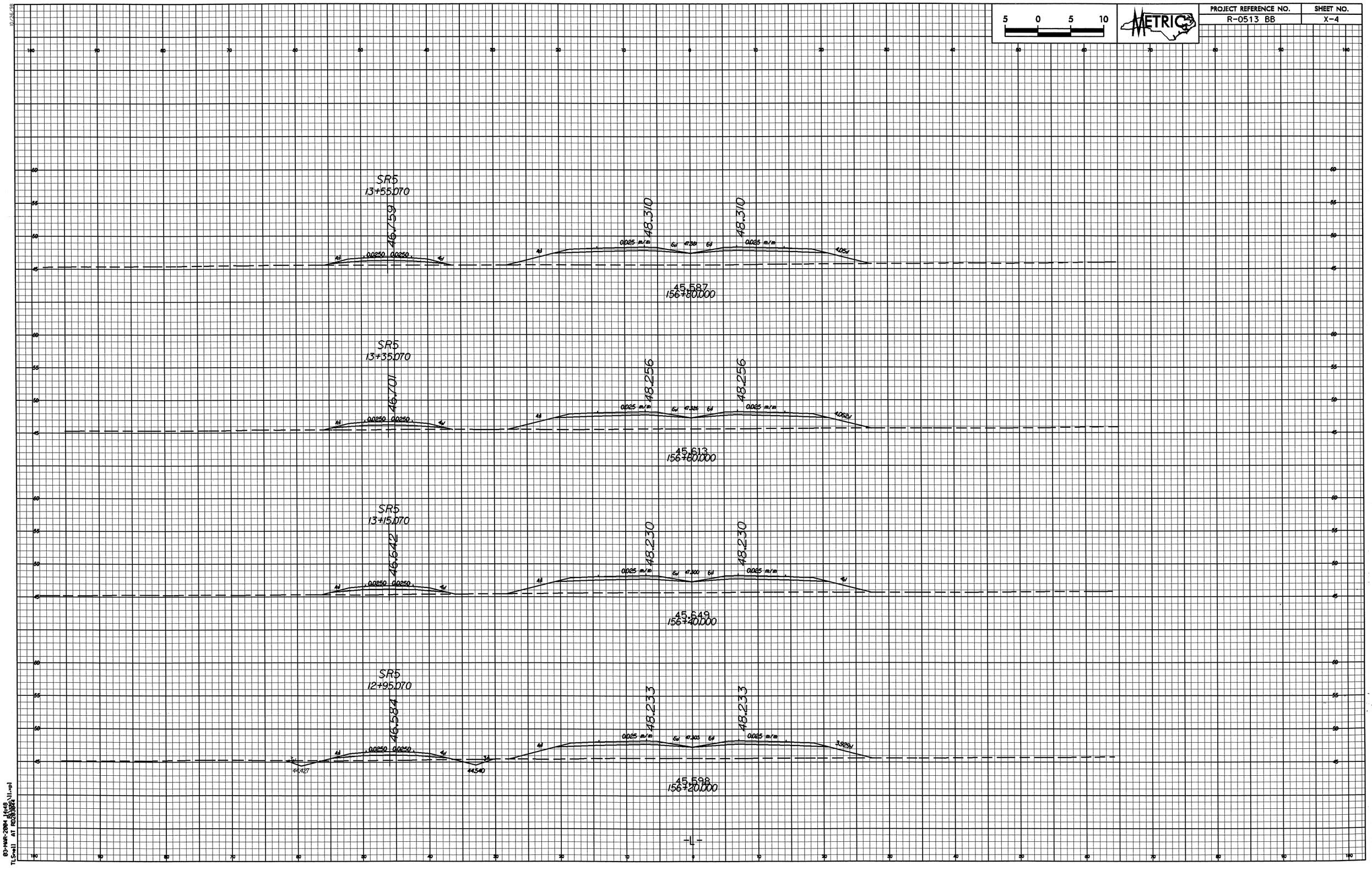
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-3



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-4



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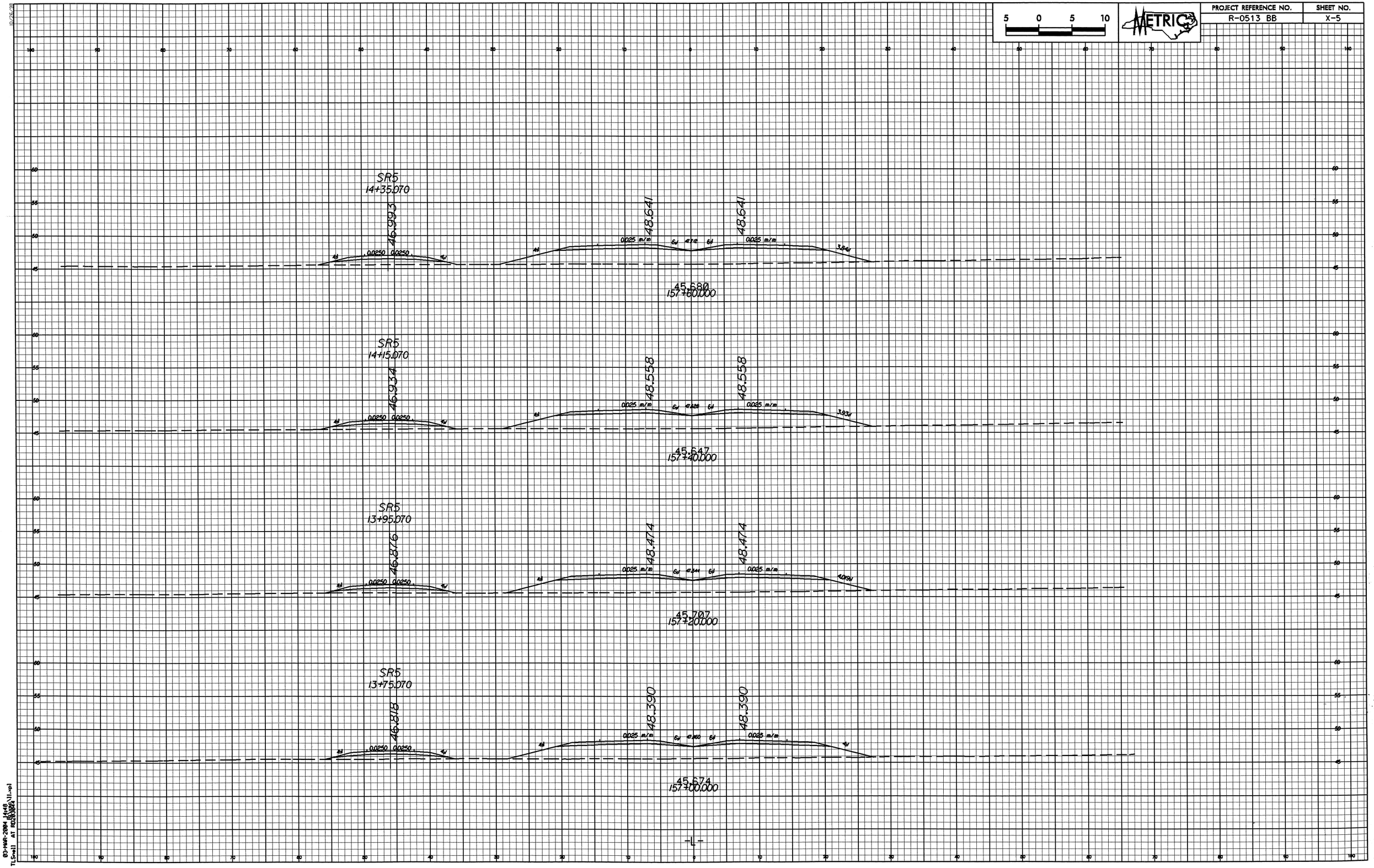
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-5



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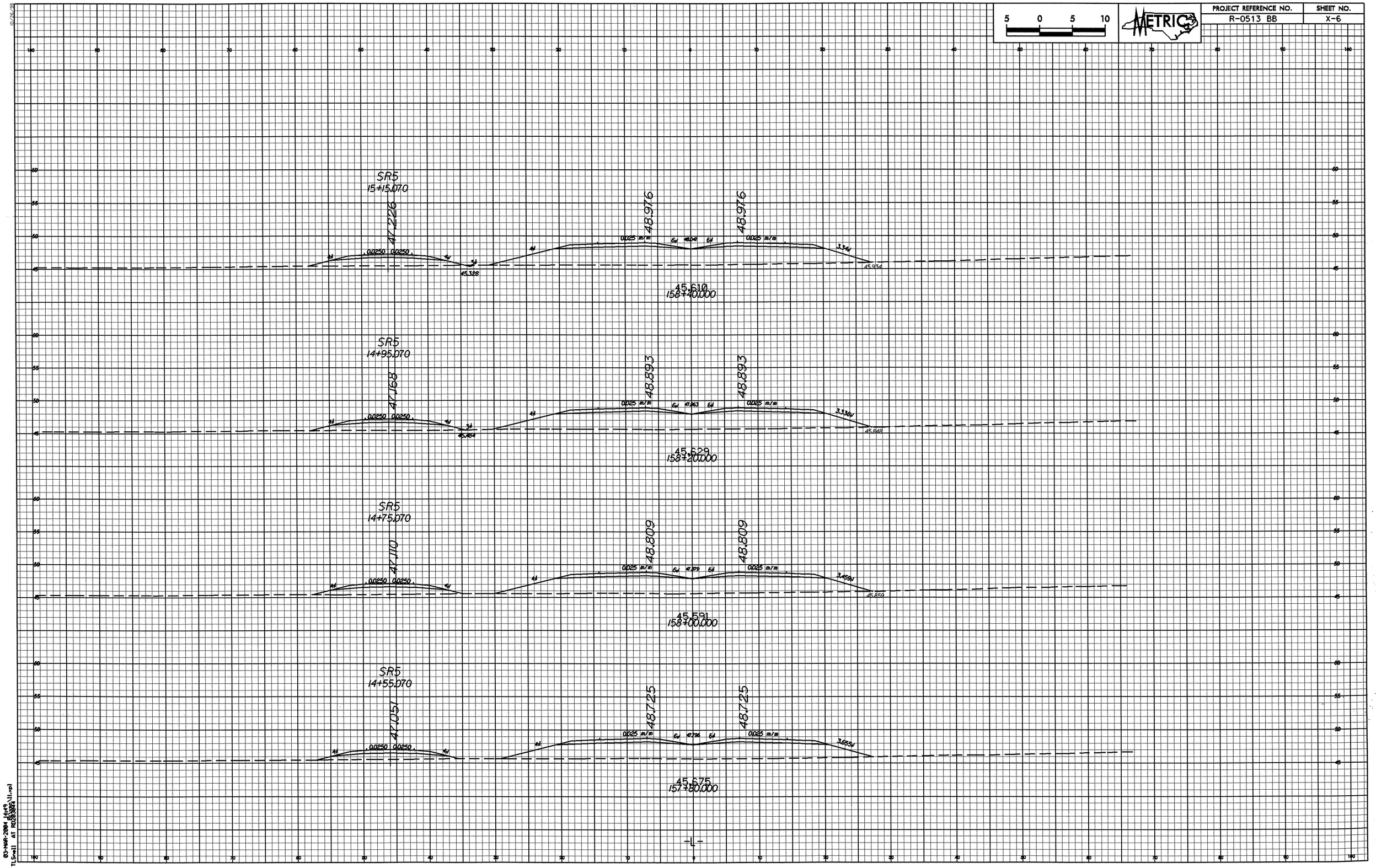
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-6



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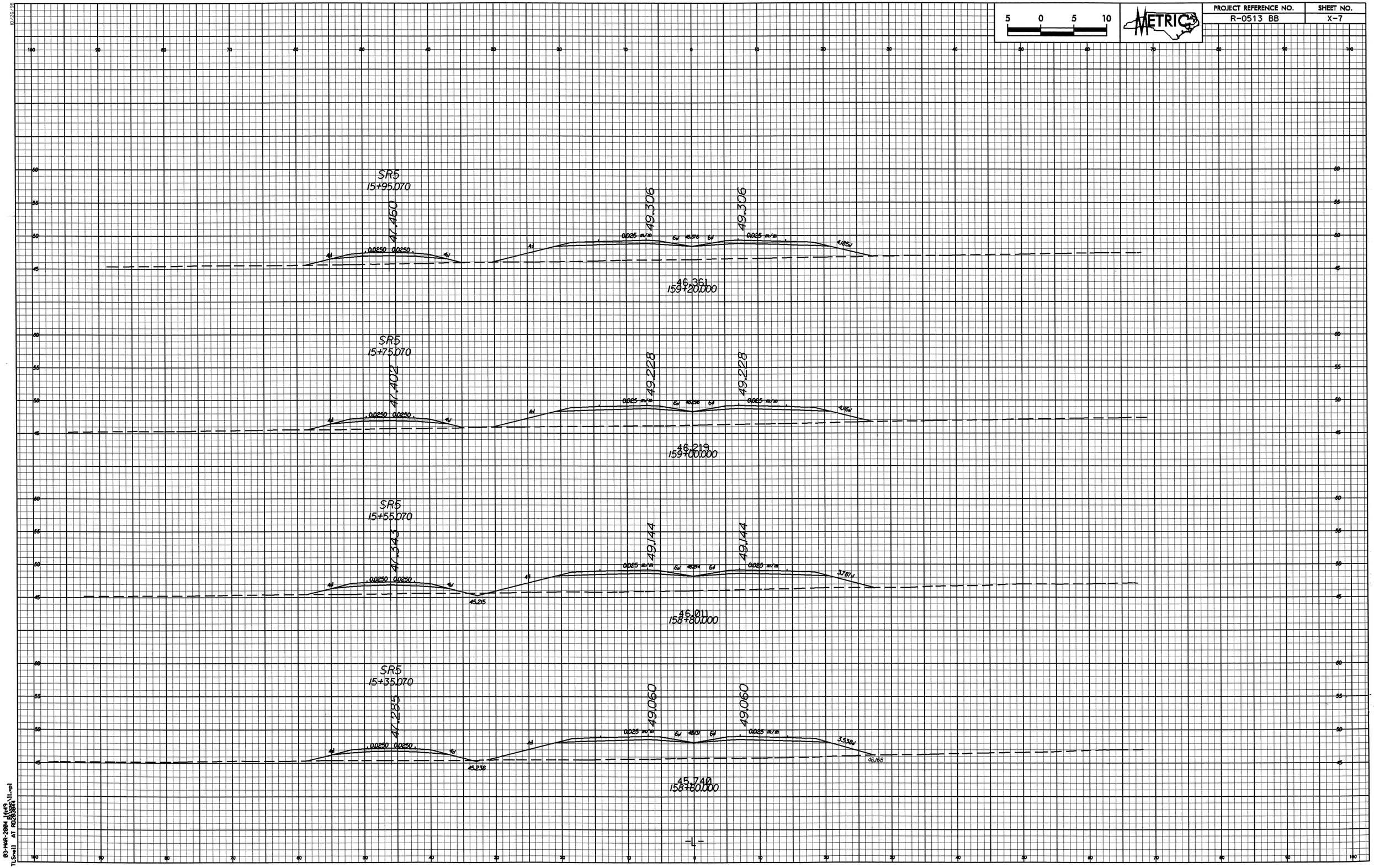
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-7



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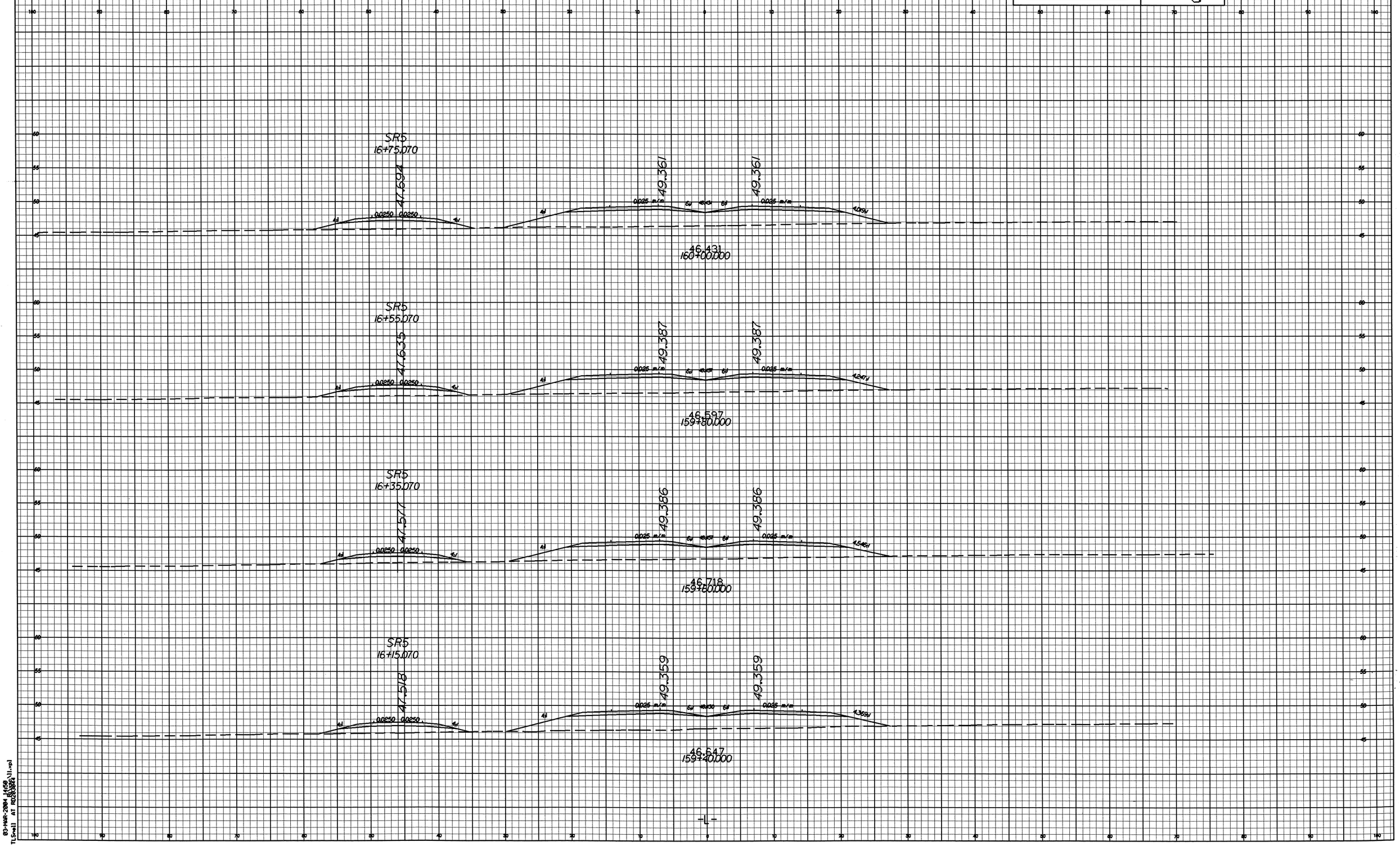
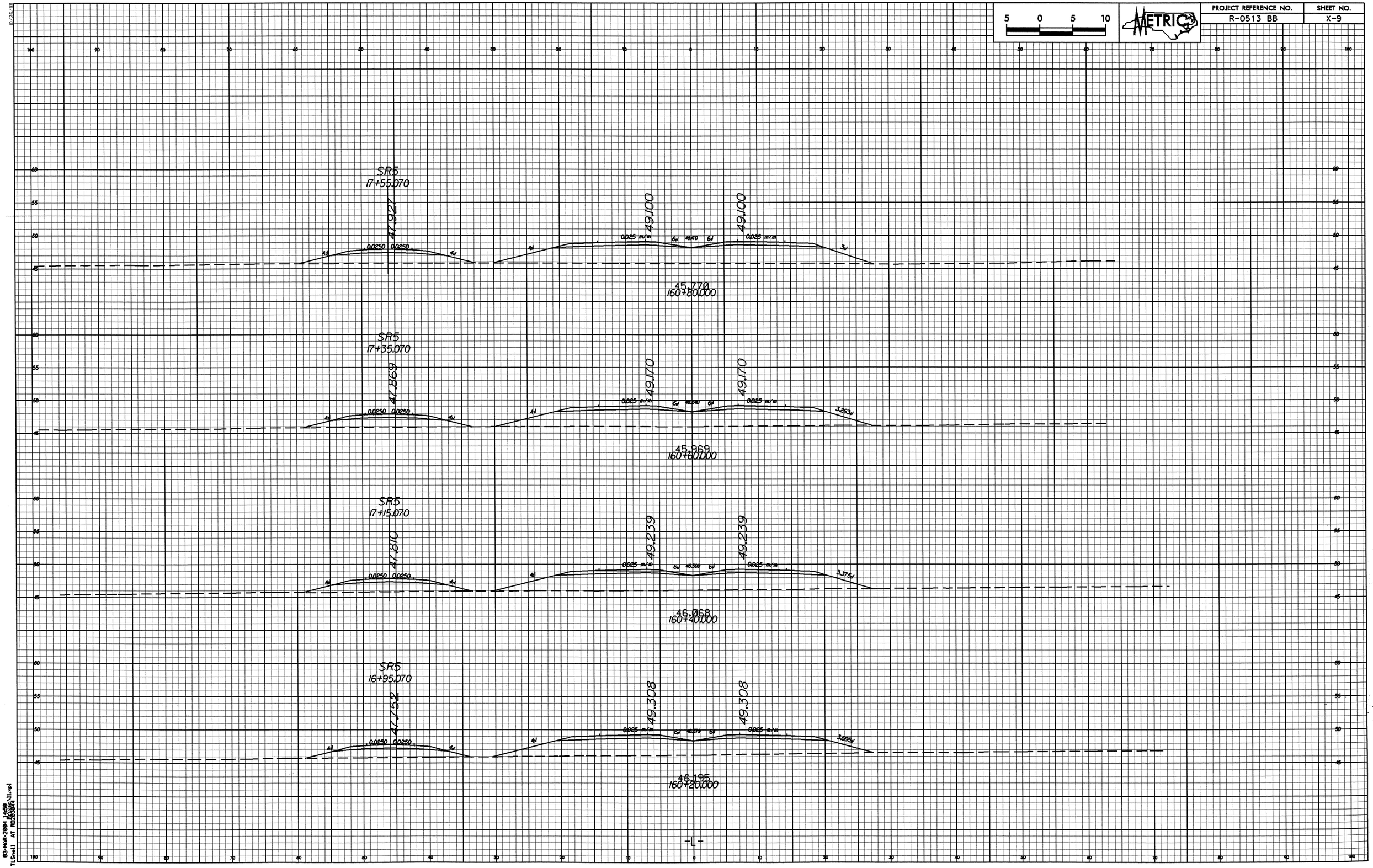


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-8
SR5
16+75.070
47.694
49.361
49.361
0.0250 0.0250
0.025 m/m
0.025 m/m
4.019:1
46.431
160+00.000
SR5
16+55.070
47.635
49.387
49.387
0.0250 0.0250
0.025 m/m
0.025 m/m
4.247:1
46.597
159+80.000
SR5
16+35.070
47.577
49.386
49.386
0.0250 0.0250
0.025 m/m
0.025 m/m
4.546:1
46.718
159+60.000
SR5
16+15.070
47.518
49.359
49.359
0.0250 0.0250
0.025 m/m
0.025 m/m
4.369:1
46.647
159+40.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-9



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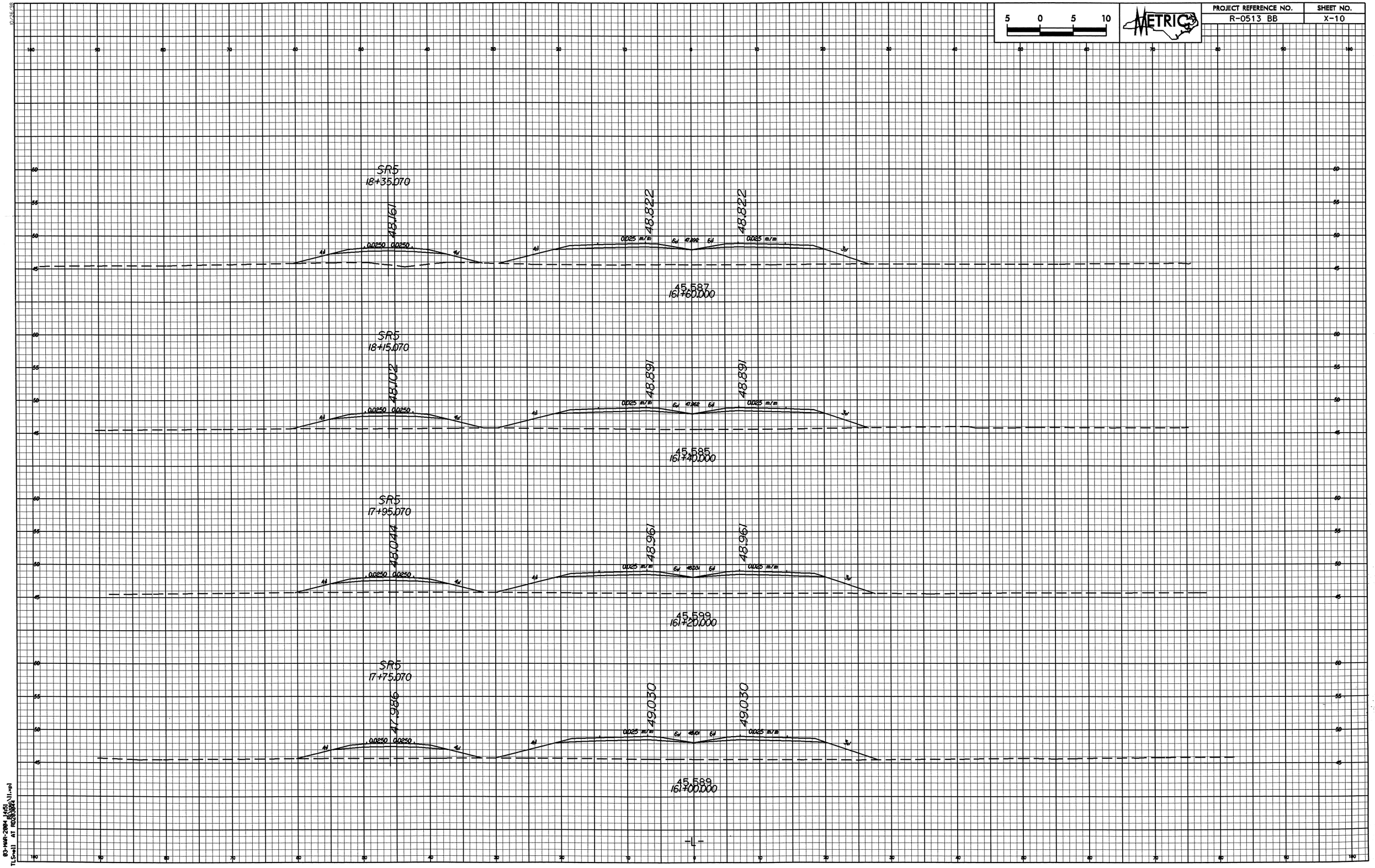
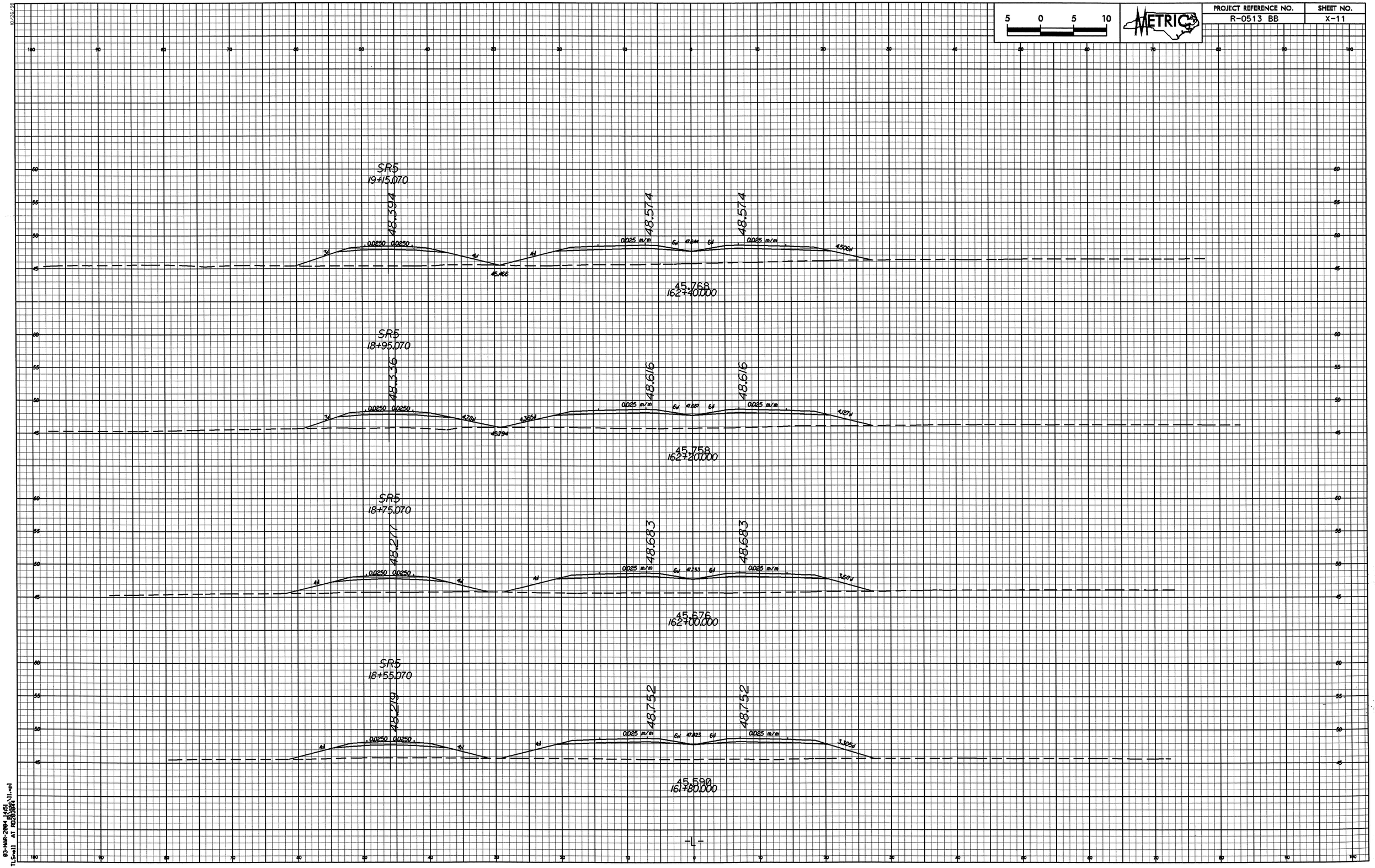
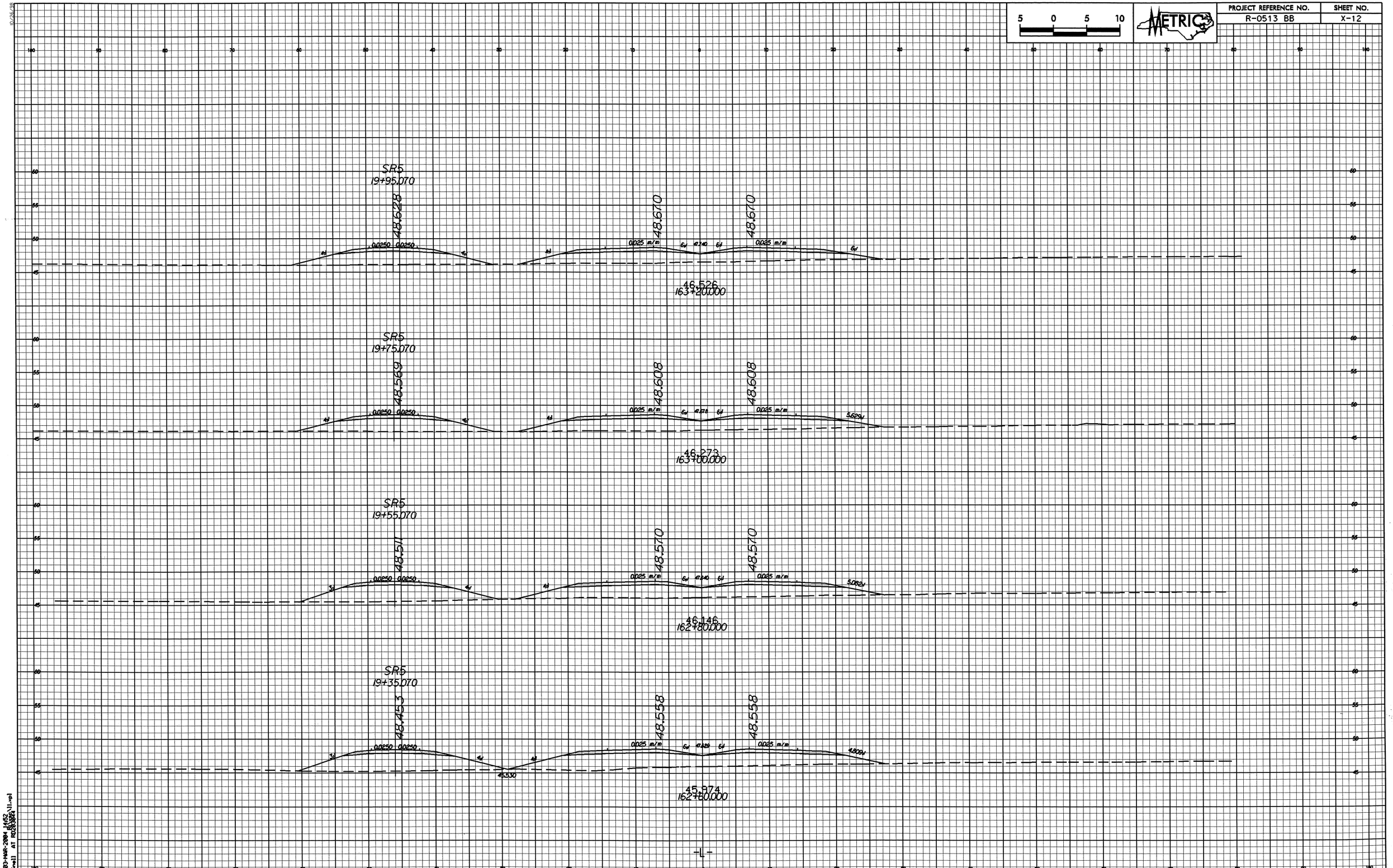
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-10



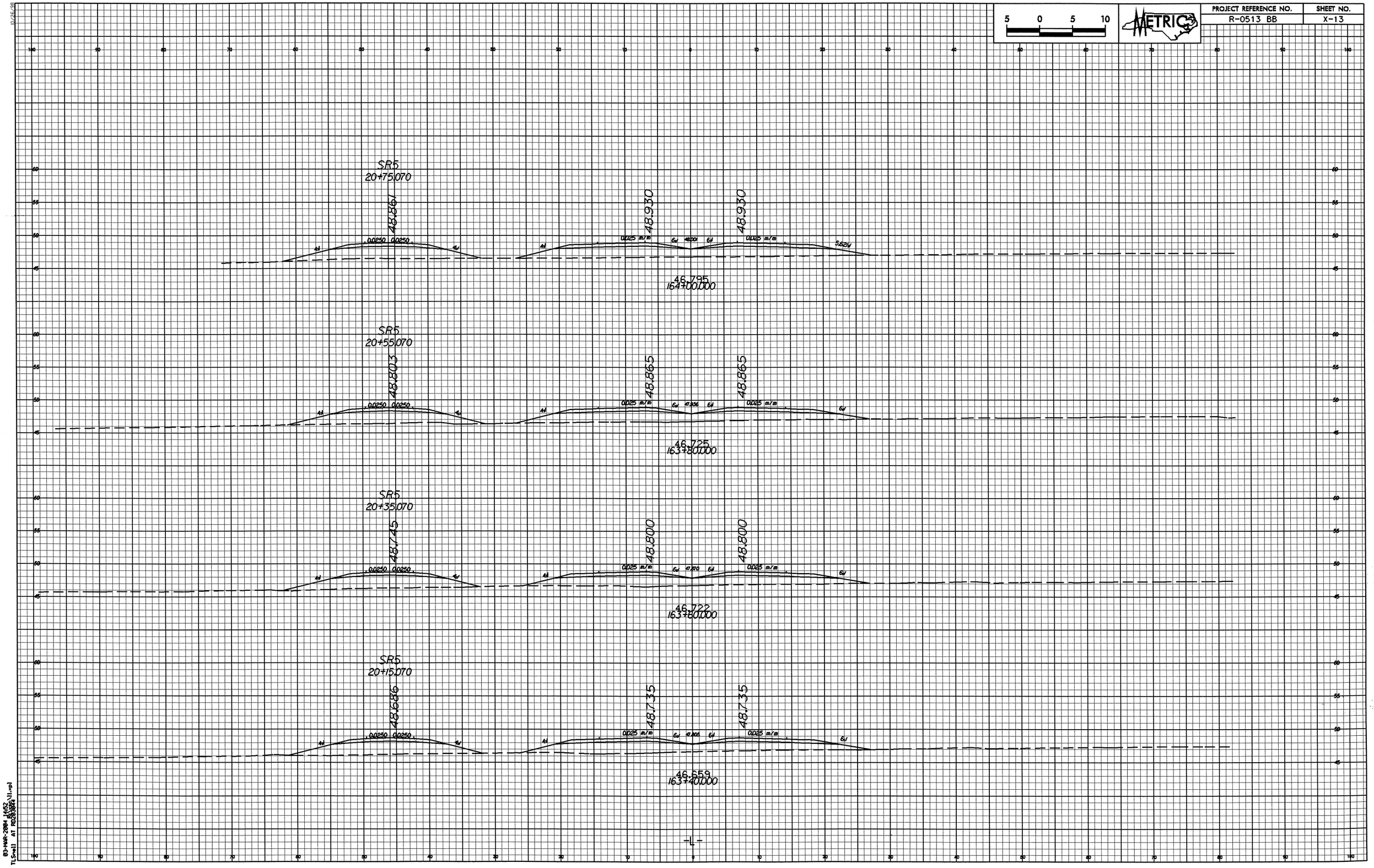


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-11
SR5
19+15.070
48.394
48.574
48.574
0.0250 0.0250
0.025 m/m
0.025 m/m
45.768
162+40.000
SR5
18+95.070
48.336
48.616
48.616
0.0250 0.0250
0.025 m/m
0.025 m/m
45.758
162+20.000
SR5
18+75.070
48.277
48.683
48.683
0.0250 0.0250
0.025 m/m
0.025 m/m
45.676
162+00.000
SR5
18+55.070
48.219
48.752
48.752
0.0250 0.0250
0.025 m/m
0.025 m/m
45.590
161+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-12
SR5
19+95.070
48.628
48.670
48.670
0.0250 0.0250
0.025 m/m
0.025 m/m
46.526
163+20.000
SR5
19+75.070
48.569
48.608
48.608
0.0250 0.0250
0.025 m/m
0.025 m/m
5.629
46.273
163+00.000
SR5
19+55.070
48.511
48.570
48.570
0.0250 0.0250
0.025 m/m
0.025 m/m
5.082
46.146
162+80.000
SR5
19+35.070
48.453
48.558
48.558
0.0250 0.0250
0.025 m/m
0.025 m/m
45.530
4.809
45.974
162+60.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-13



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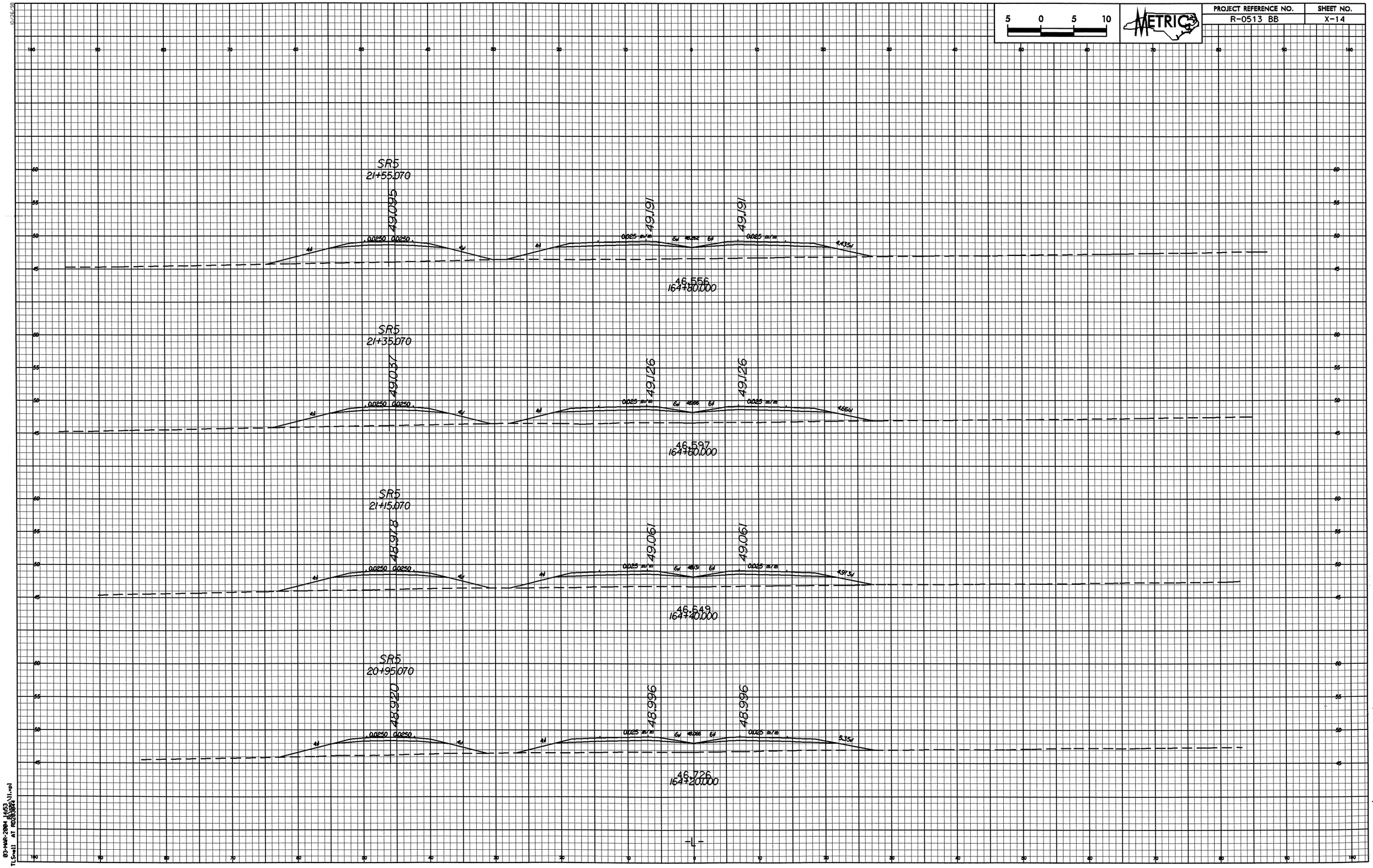
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-14



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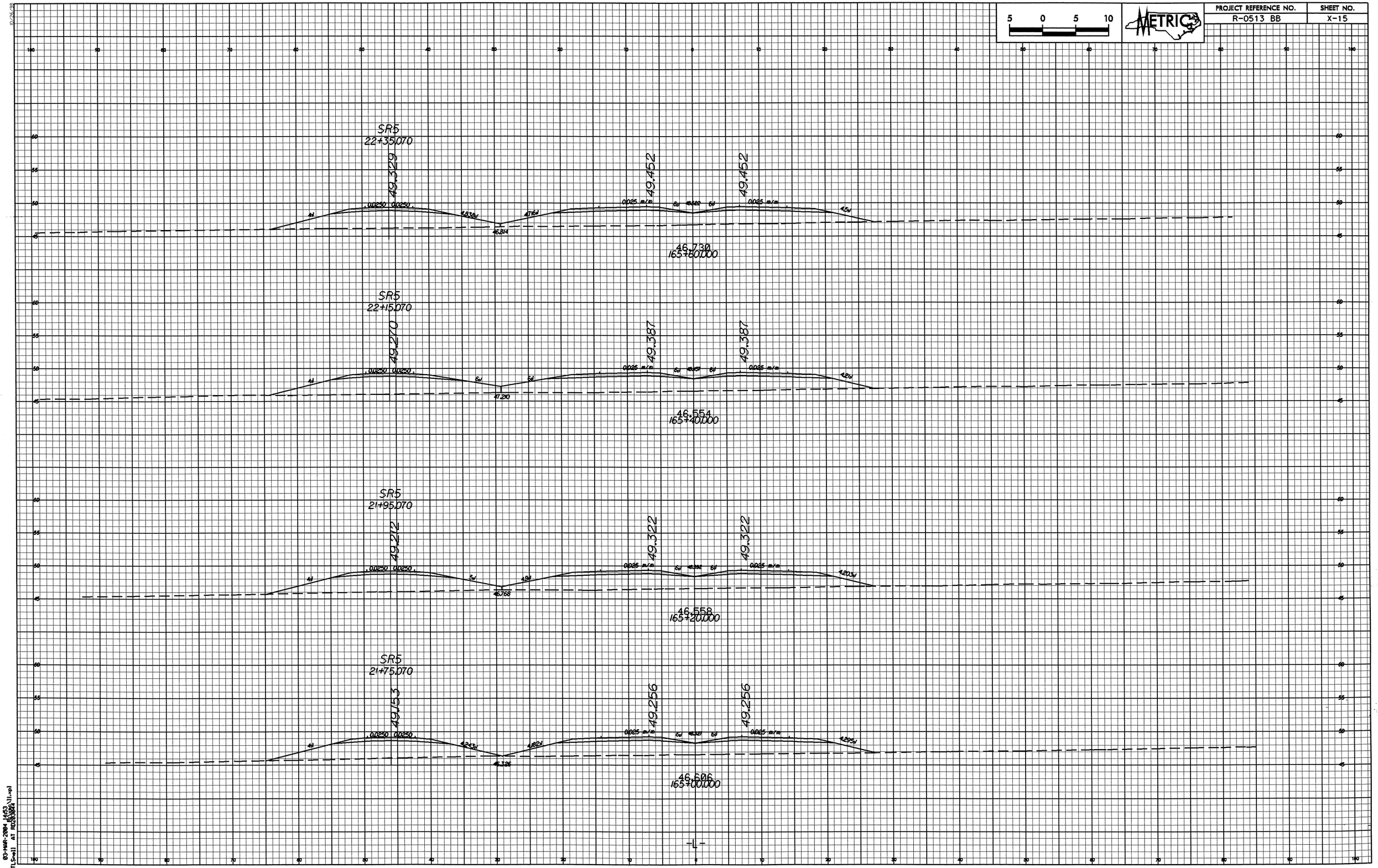
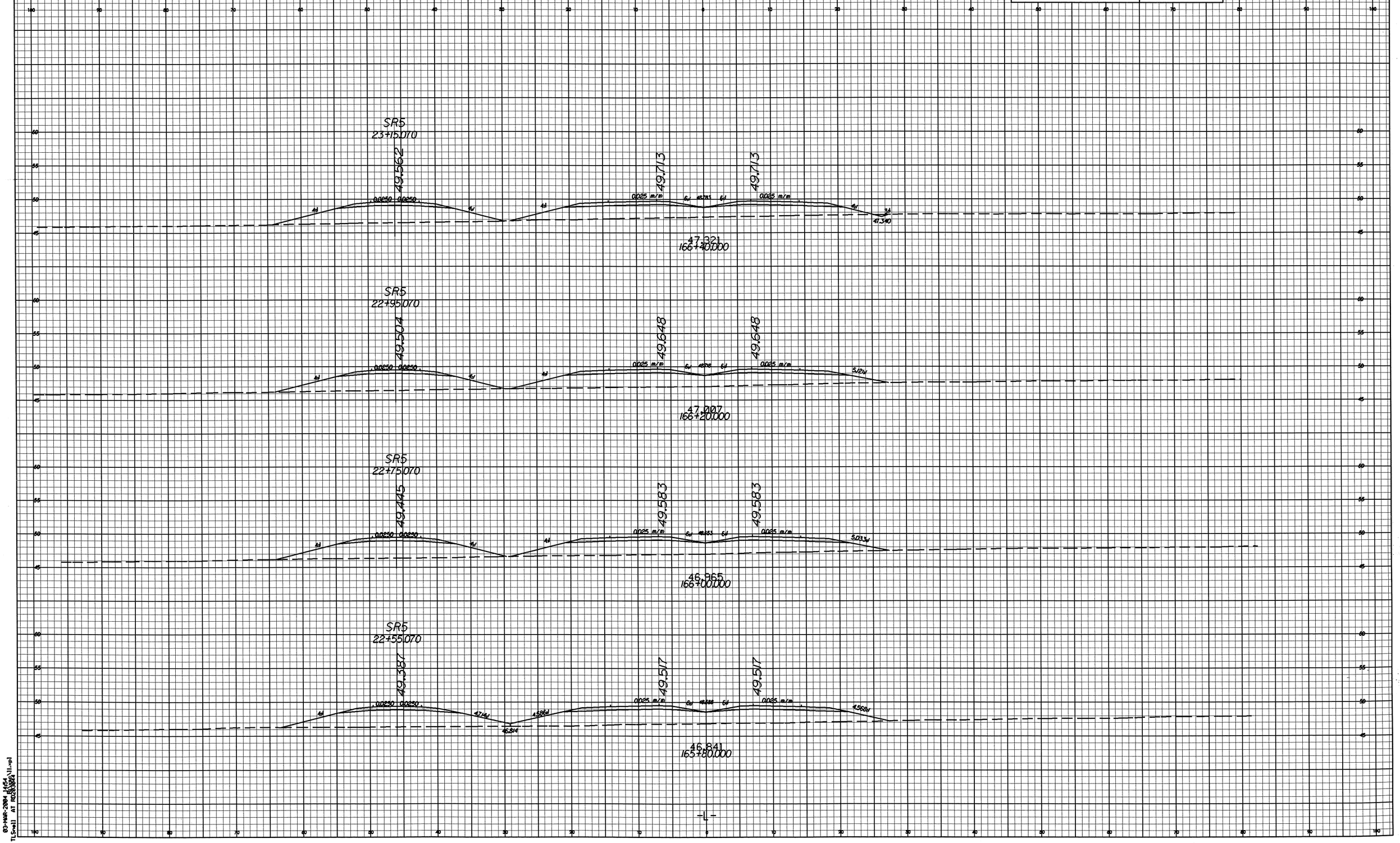
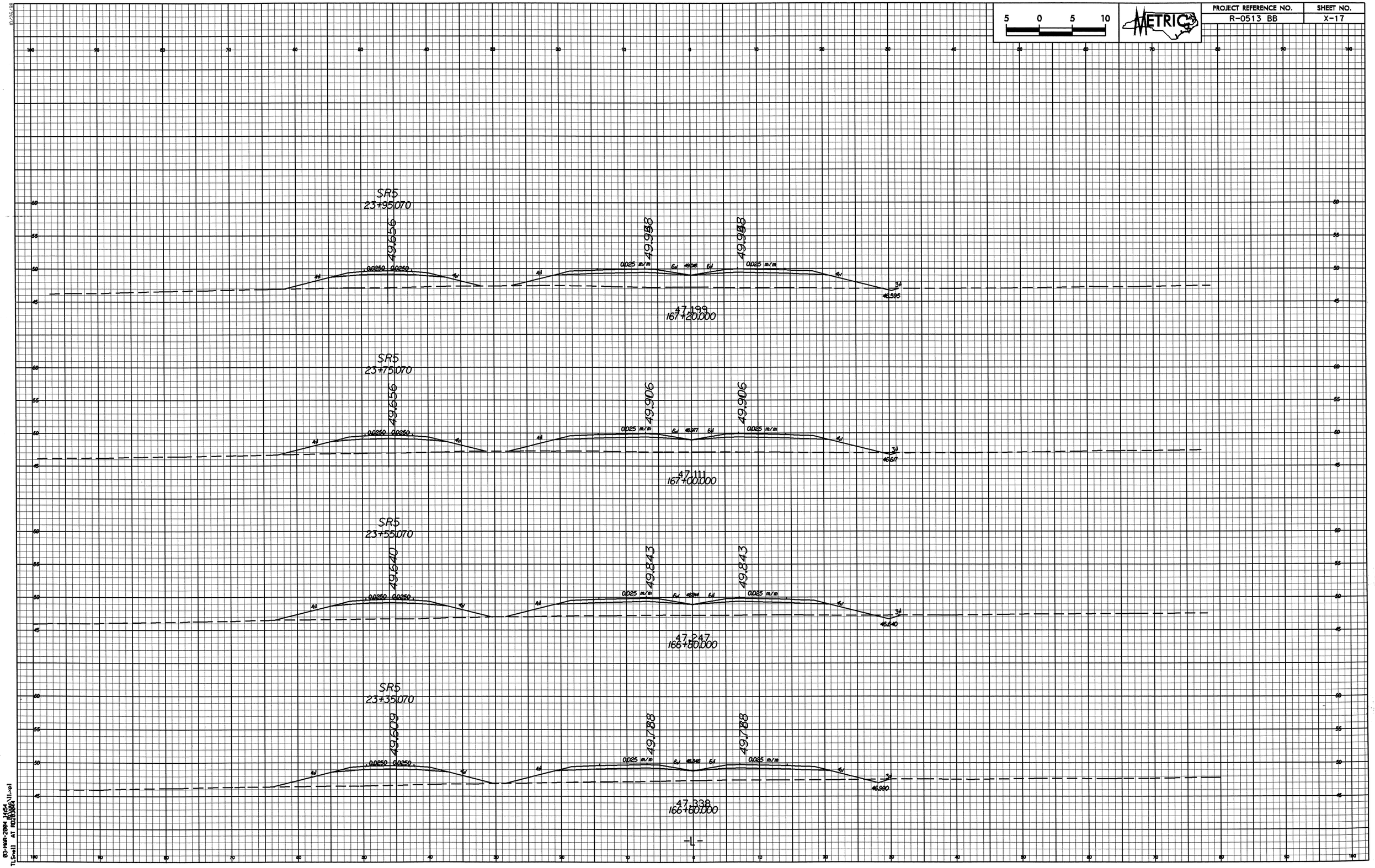


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-15
SR5
22+35.070
49.329
49.452
49.452
0.0250 0.0250
0.025 m/m
46.814
46.730
165+60.000
SR5
22+15.070
49.270
49.387
49.387
0.0250 0.0250
0.025 m/m
47.210
46.554
165+40.000
SR5
21+95.070
49.212
49.322
49.322
0.0250 0.0250
0.025 m/m
46.768
46.558
165+20.000
SR5
21+75.070
49.153
49.256
49.256
0.0250 0.0250
0.025 m/m
46.326
46.606
165+00.000
-L-

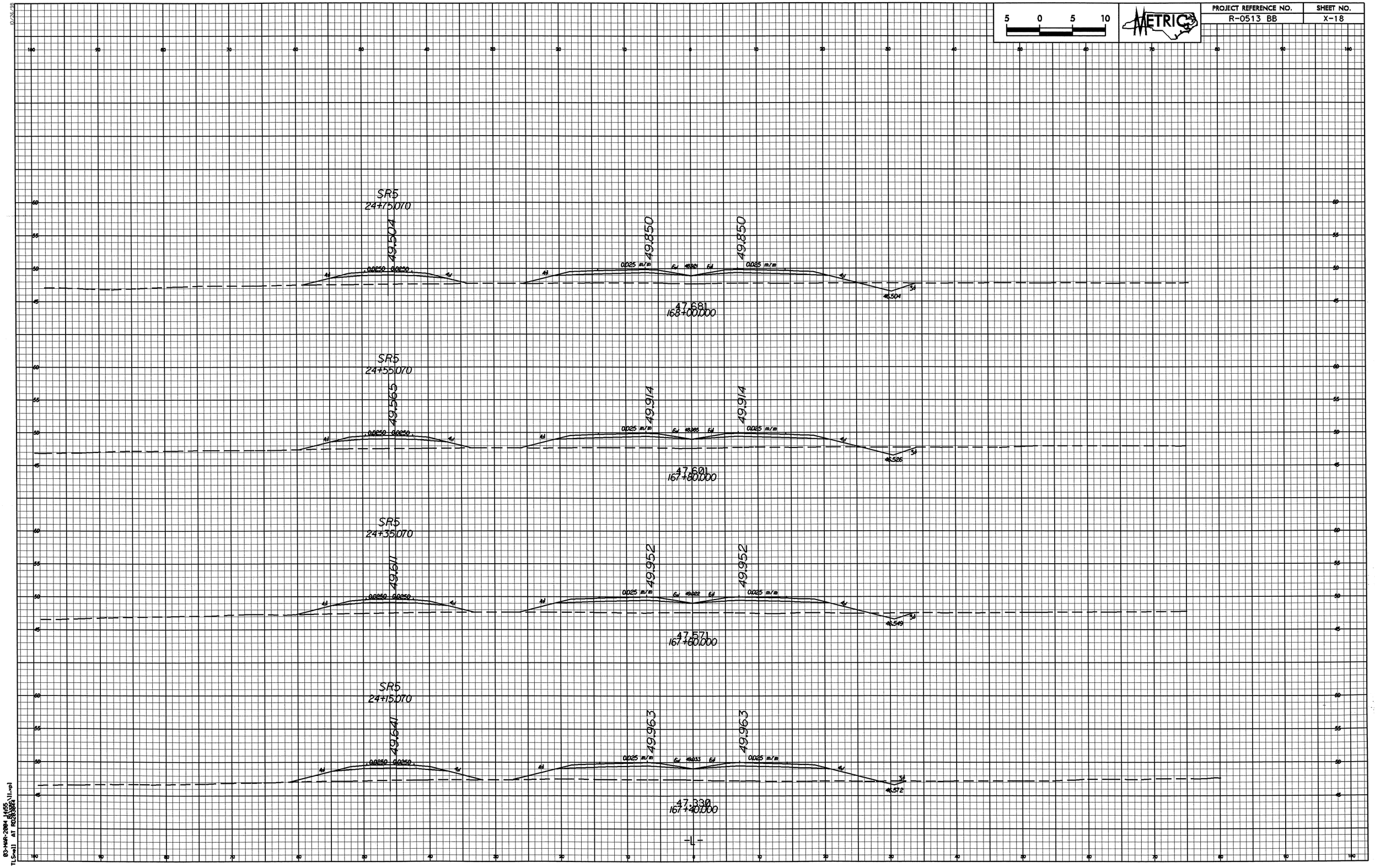


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-16
SR5
23+15.070
49.562
49.713
49.713
0.0250 0.0250
0.025 m/m
0.025 m/m
47.321
166+40.000
SR5
22+95.070
49.504
49.648
49.648
0.0250 0.0250
0.025 m/m
0.025 m/m
47.007
166+20.000
SR5
22+75.070
49.445
49.583
49.583
0.0250 0.0250
0.025 m/m
0.025 m/m
46.965
166+00.000
SR5
22+55.070
49.387
49.517
49.517
0.0250 0.0250
0.025 m/m
0.025 m/m
46.841
165+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-17



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-18



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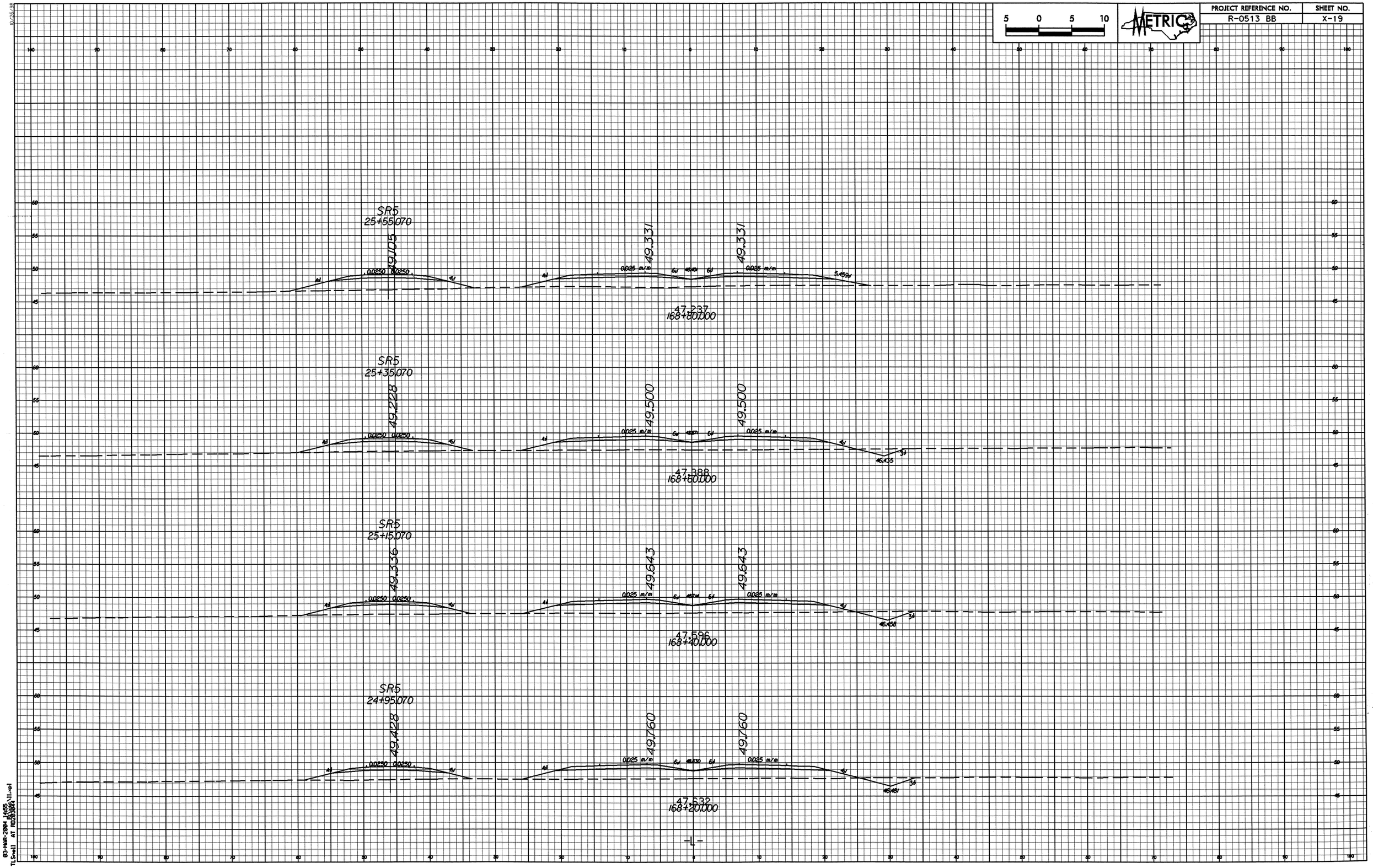
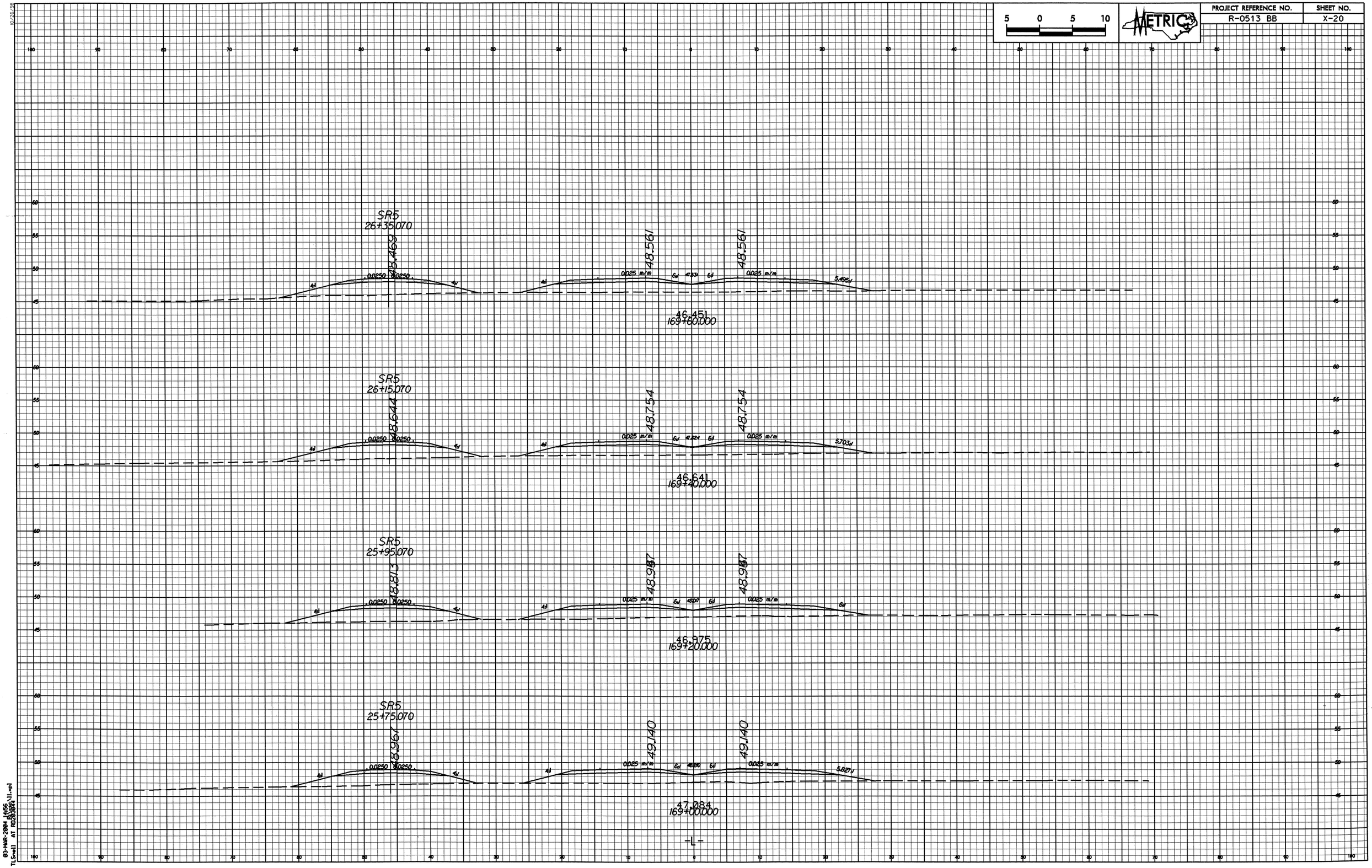
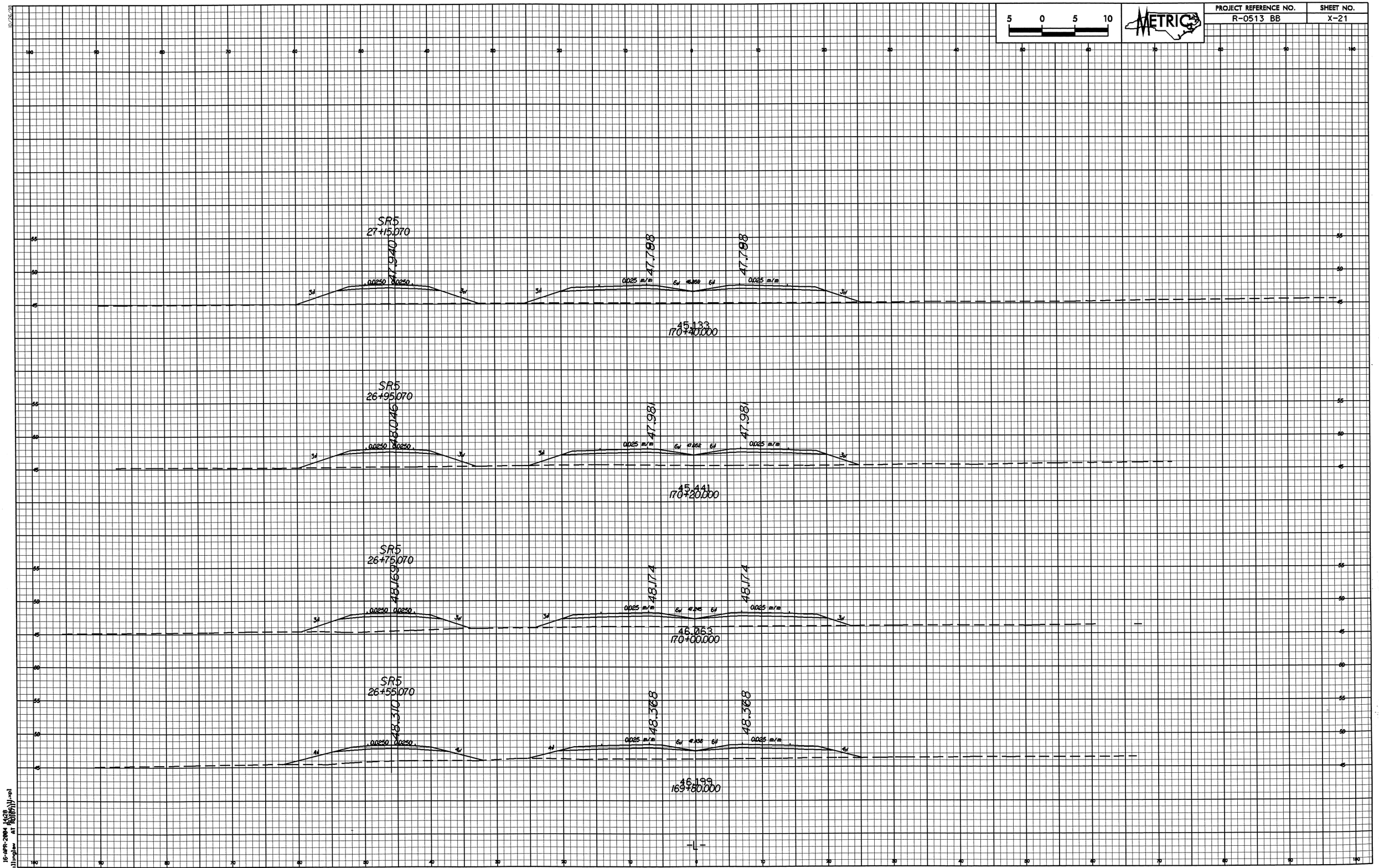


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-19
SR5
25+55.070
49.105
49.331
49.331
0.0250
0.0250
0.025 m/m
0.025 m/m
5.459
47.237
168+80.000
SR5
25+35.070
49.228
49.500
49.500
0.0250
0.0250
0.025 m/m
0.025 m/m
46.435
47.388
168+60.000
SR5
25+15.070
49.336
49.643
49.643
0.0250
0.0250
0.025 m/m
0.025 m/m
46.458
47.596
168+40.000
SR5
24+95.070
49.428
49.760
49.760
0.0250
0.0250
0.025 m/m
0.025 m/m
46.481
47.632
168+20.000
-L-



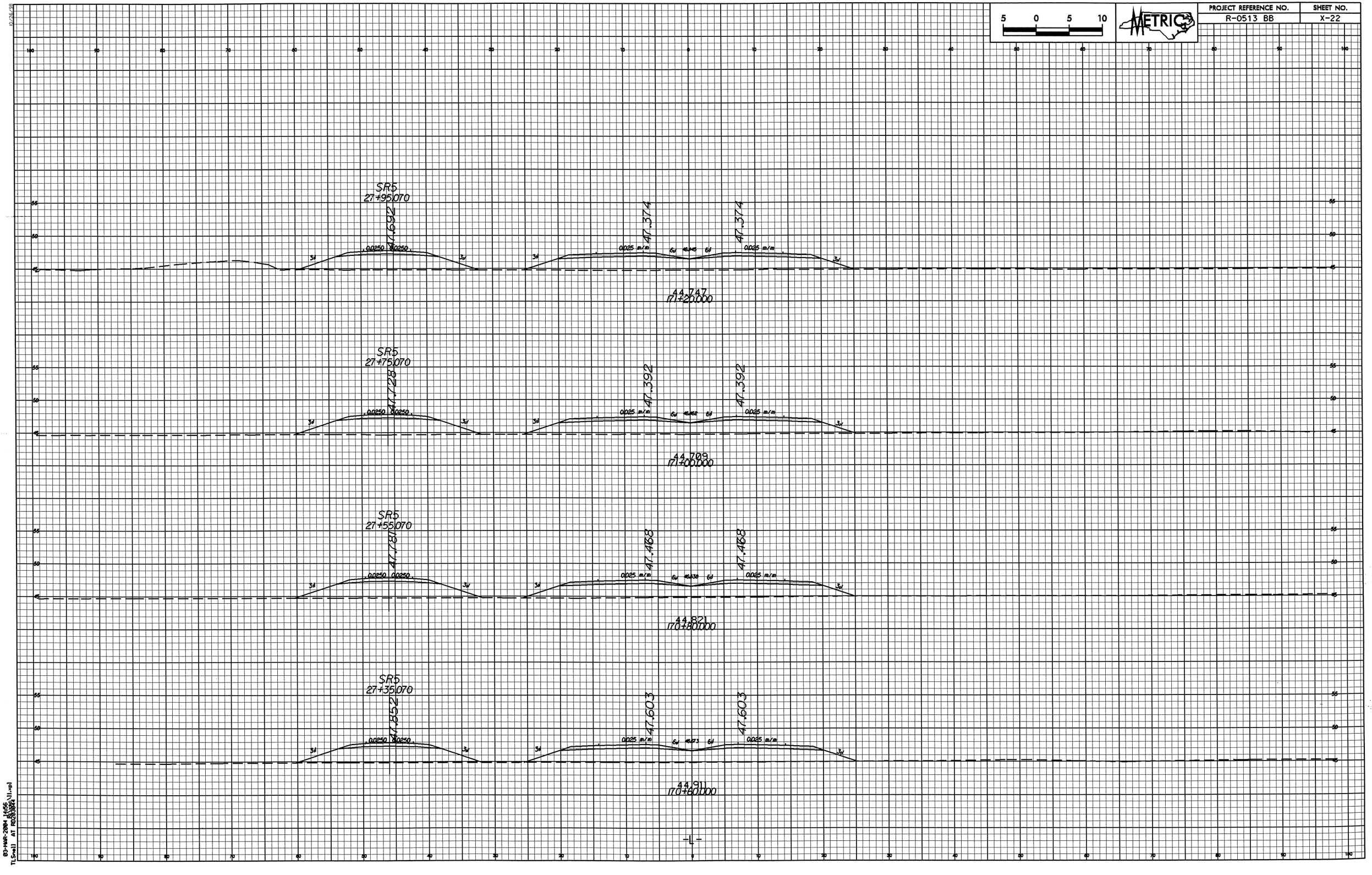
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-20
SR5
26+35.070
48.469
48.561
48.561
0.0250
0.0250
0.025 m/m
0.025 m/m
46.451
169+60.000
SR5
26+15.070
48.644
48.754
48.754
0.0250
0.0250
0.025 m/m
0.025 m/m
46.641
169+40.000
SR5
25+95.070
48.813
48.987
48.987
0.0250
0.0250
0.025 m/m
0.025 m/m
46.975
169+20.000
SR5
25+75.070
48.967
49.140
49.140
0.0250
0.0250
0.025 m/m
0.025 m/m
47.084
169+00.000
-L-

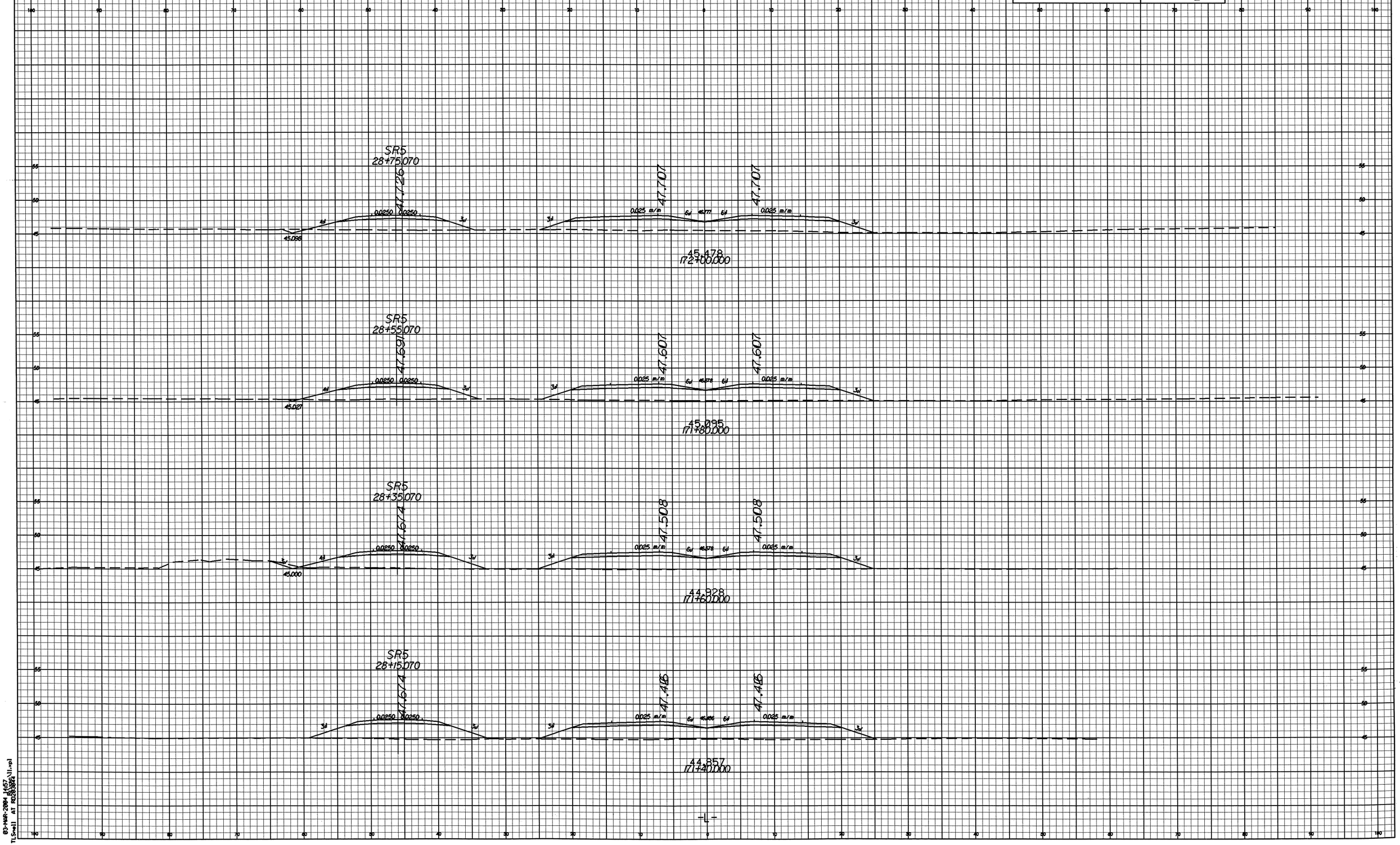
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-21



16-APR-2004 14:28
RShillinglaw AT R0187111.xpl

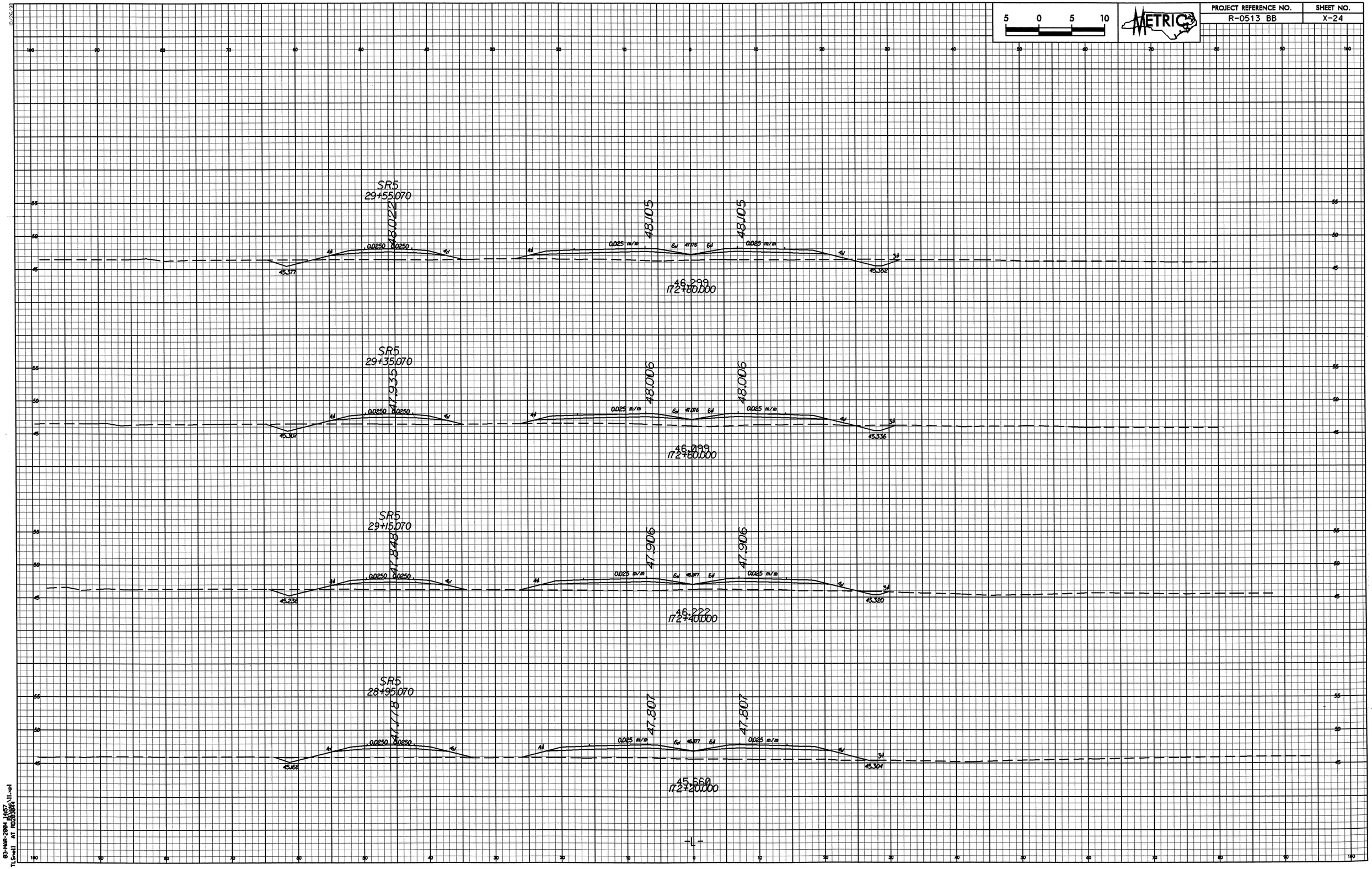
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-22



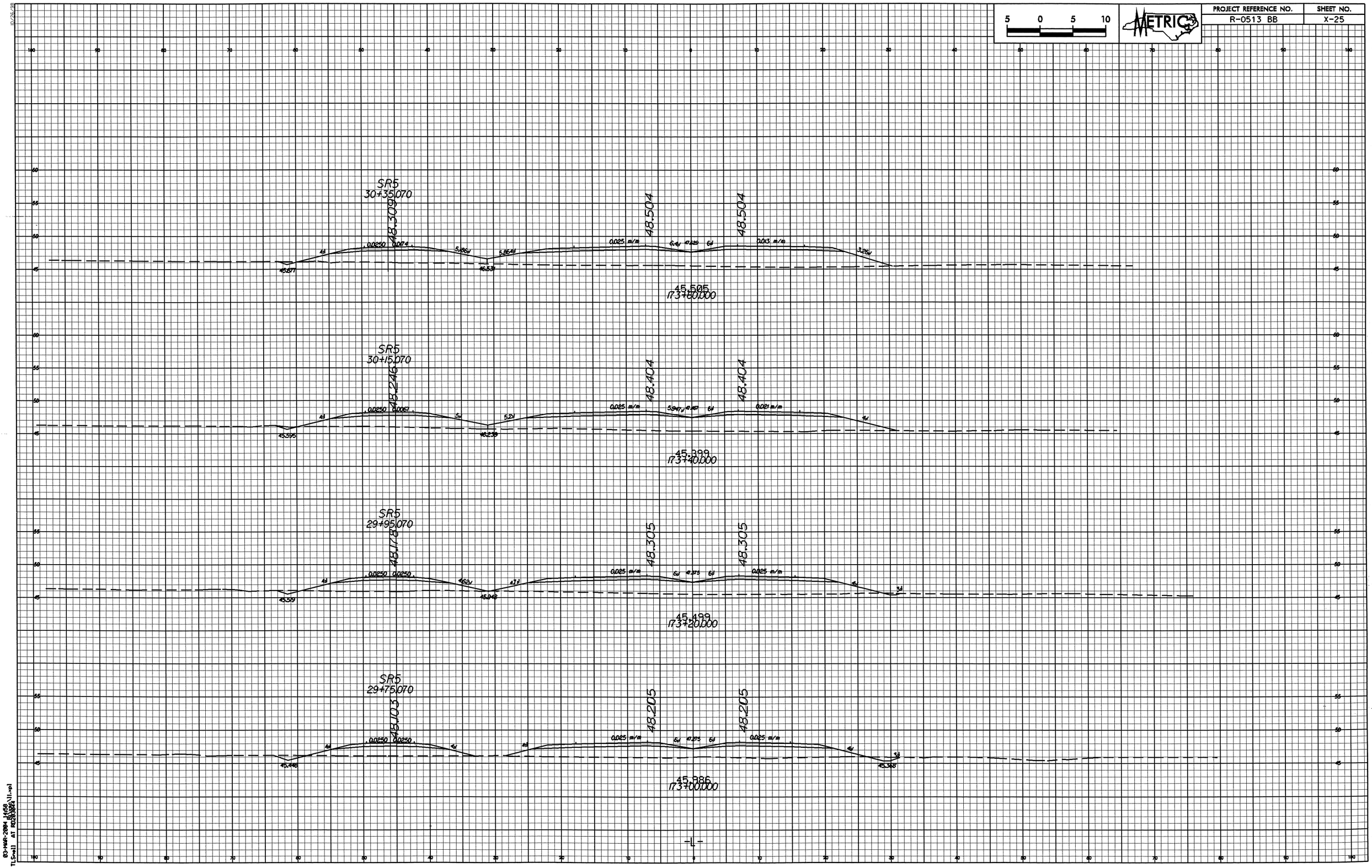


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-23
SR5
28+75.070
47.726
47.707
47.707
0.0250
0.0250
0.025 m/m
0.025 m/m
45.098
45.478
172+00.000
SR5
28+55.070
47.691
47.607
47.607
0.0250
0.0250
0.025 m/m
0.025 m/m
45.027
45.095
171+80.000
SR5
28+35.070
47.674
47.508
47.508
0.0250
0.0250
0.025 m/m
0.025 m/m
45.000
44.928
171+60.000
SR5
28+15.070
47.674
47.416
47.416
0.0250
0.0250
0.025 m/m
0.025 m/m
44.857
171+40.000
-L-

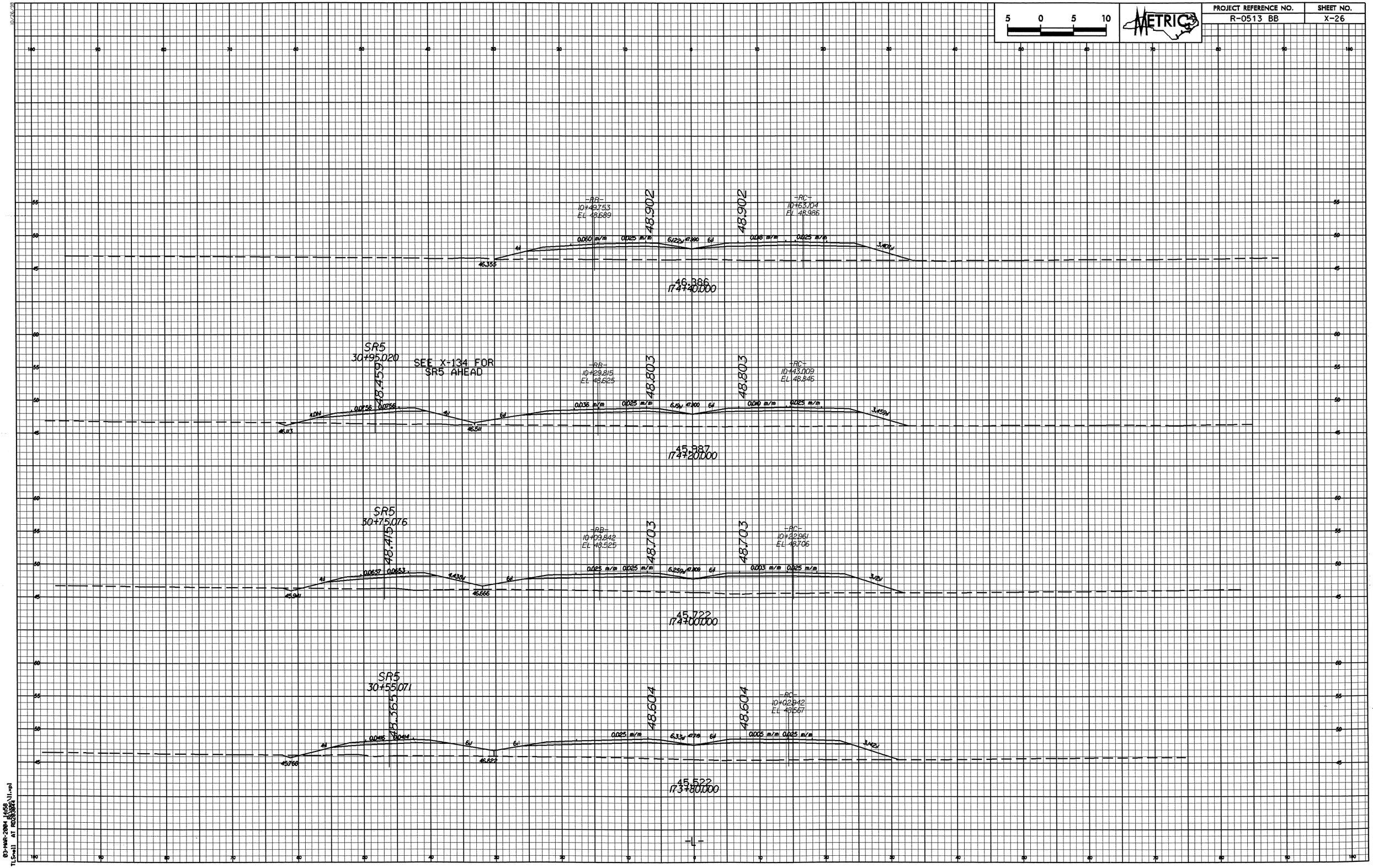
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-24



03-MAR-2004 14:57
TLSnell AT RD283844



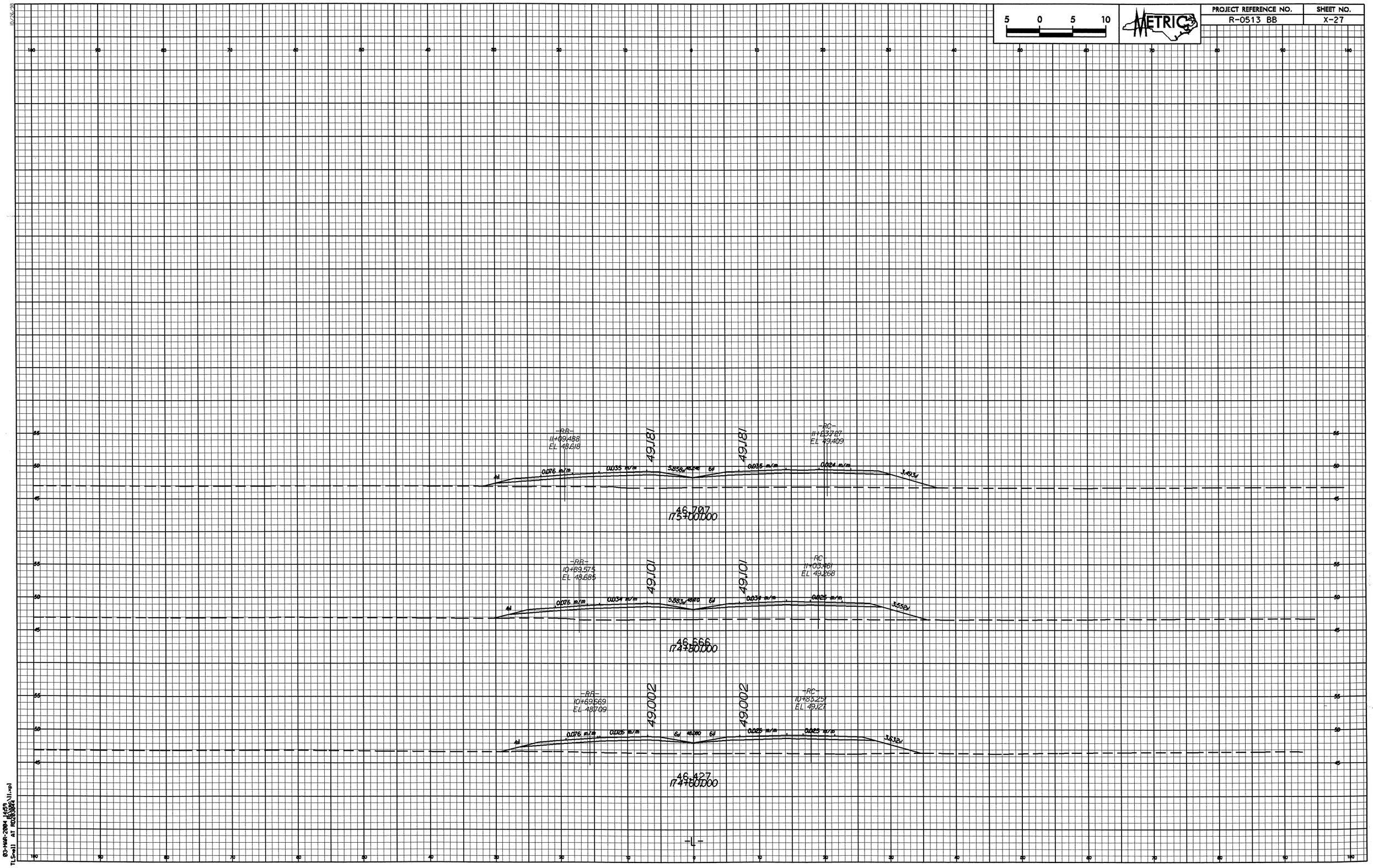
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-25
SR5
30+35.070
48.309
48.504
48.504
0.0250
0.0174
0.025 m/m
0.013 m/m
45.505
173+60.000
SR5
30+15.070
48.246
48.404
48.404
0.0250
0.0067
0.025 m/m
0.021 m/m
45.399
173+40.000
SR5
29+95.070
48.178
48.305
48.305
0.0250
0.0250
0.025 m/m
0.025 m/m
45.499
173+20.000
SR5
29+75.070
48.103
48.205
48.205
0.0250
0.0250
0.025 m/m
0.025 m/m
45.986
173+00.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-26
-RB-
10+49.753
EL 48.689
48.902
48.902
-RC-
10+63.104
EL 48.986
0.060 m/m
0.025 m/m
0.018 m/m
0.025 m/m
46.355
46.386
174+40.000
SR5
30+95.020
48.459
SEE X-134 FOR
SR5 AHEAD
-RB-
10+29.815
EL 48.625
48.803
48.803
-RC-
10+43.009
EL 48.846
0.036 m/m
0.025 m/m
0.010 m/m
0.025 m/m
46.113
46.511
45.987
174+20.000
SR5
30+75.076
48.415
-RB-
10+09.842
EL 48.525
48.703
48.703
-RC-
10+22.961
EL 48.706
0.025 m/m
0.025 m/m
0.003 m/m
0.025 m/m
45.941
46.666
45.722
174+00.000
SR5
30+55.071
48.365
48.604
48.604
-RC-
10+02.942
EL 48.567
0.025 m/m
0.005 m/m
0.025 m/m
45.766
46.822
45.522
173+80.000
-L-

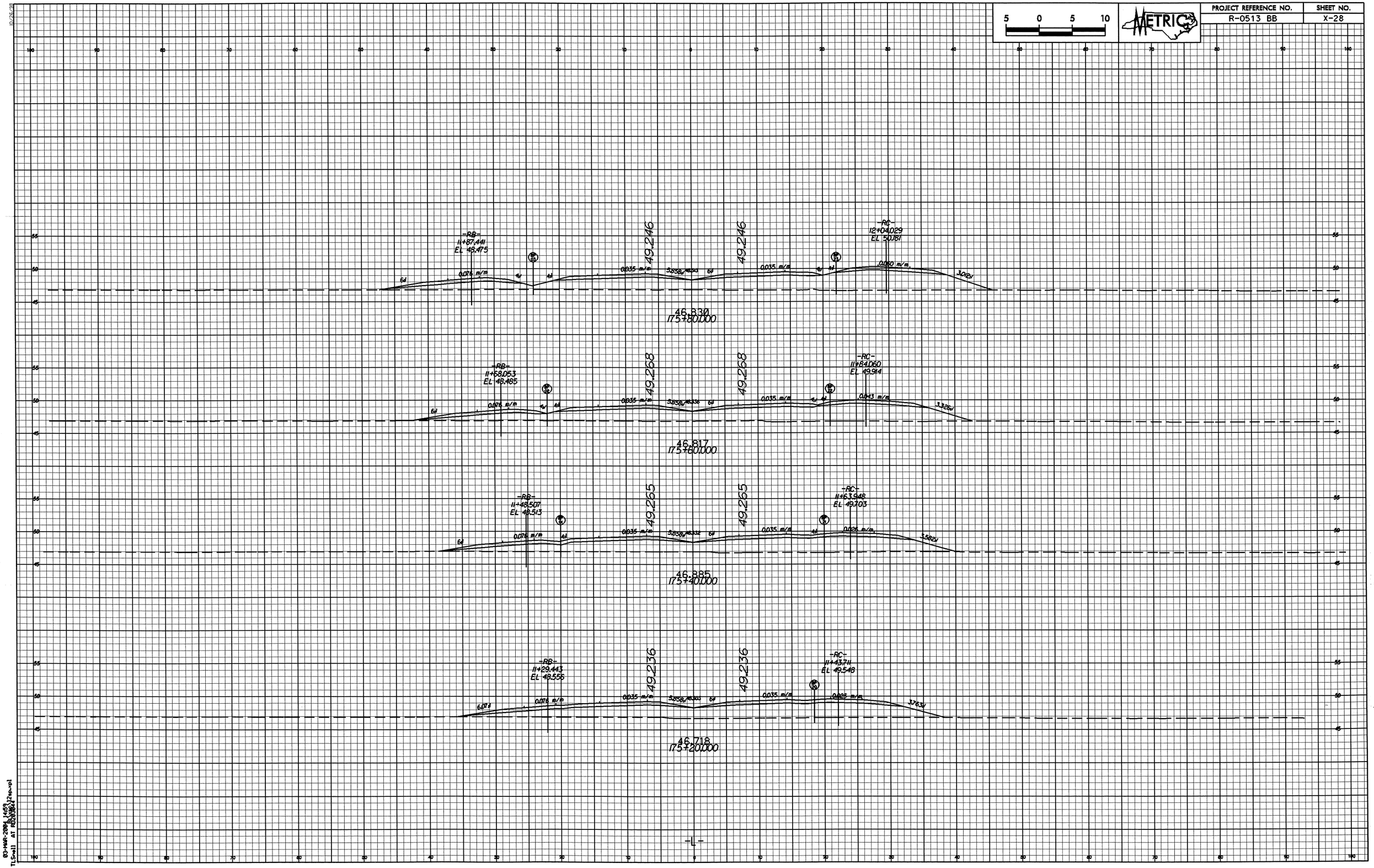
10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-27



03-MAR-2004 14:59
T:\Small AT ROADWAY\11.rpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-28



03-MAR-2004 14:59
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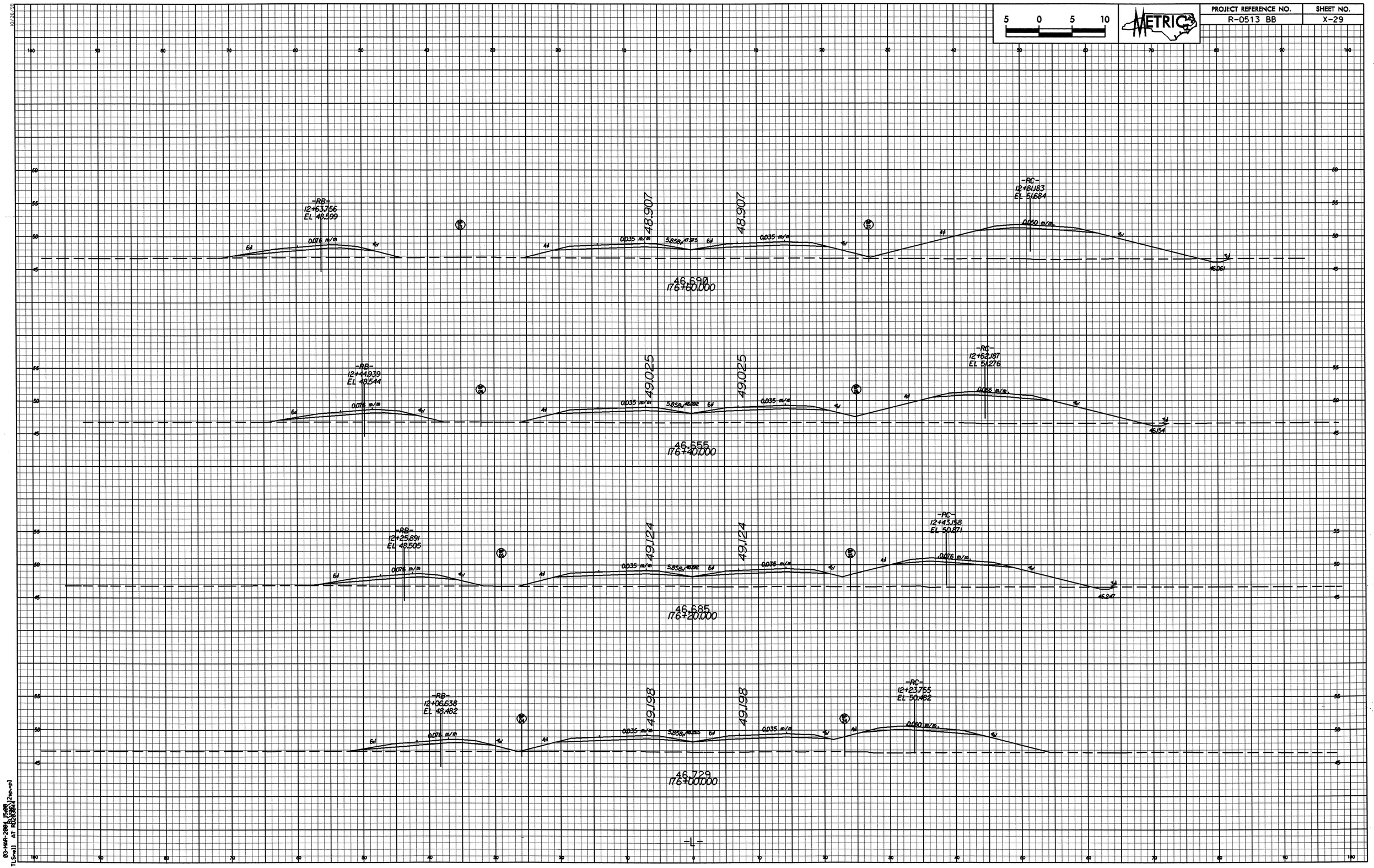
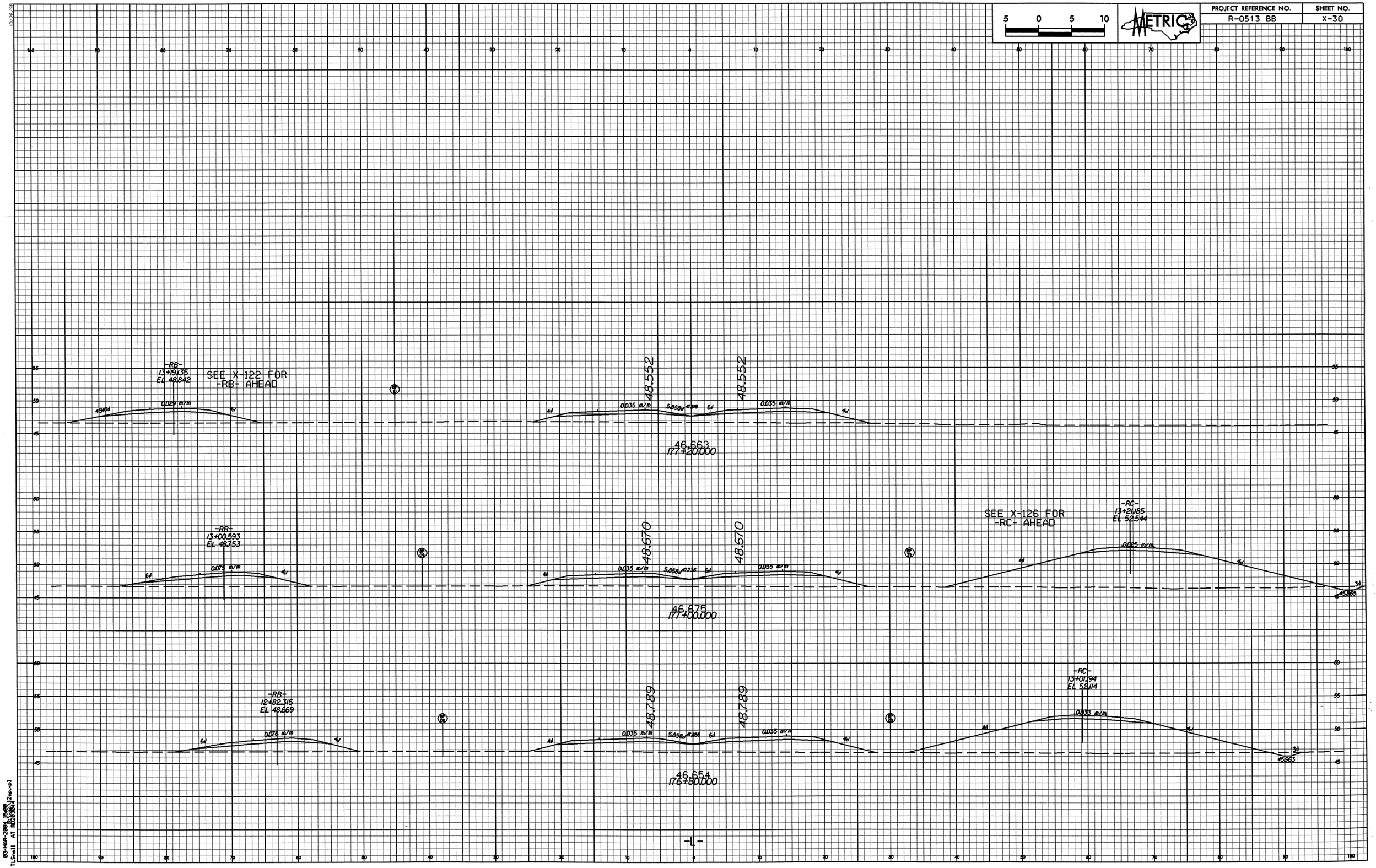
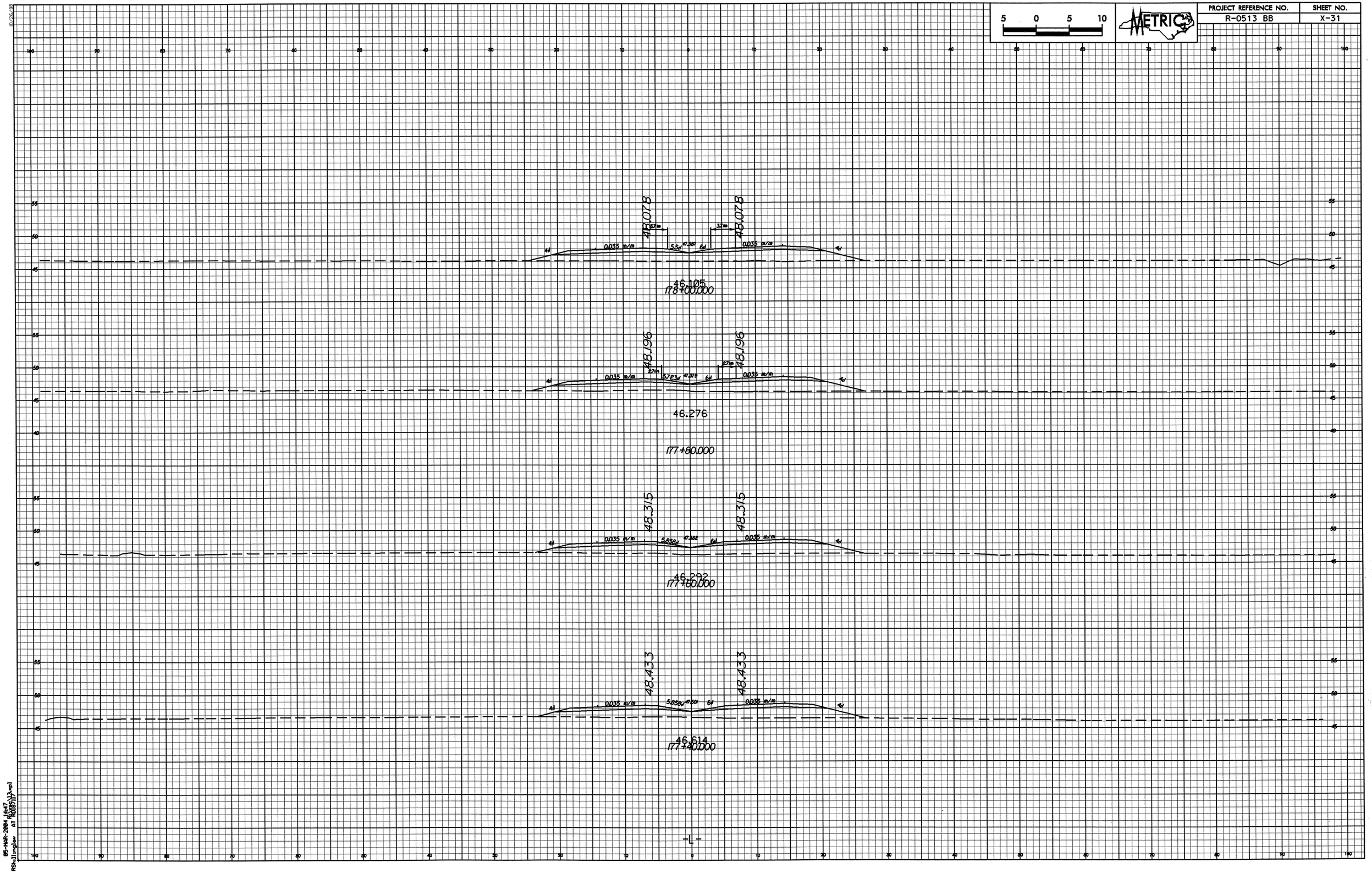


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-29
-RB-
12+63.756
EL 48.599
0.076 m/m
48.907
48.907
0.035 m/m
5.858
0.035 m/m
-RC-
12+81.183
EL 51.684
0.050 m/m
46.690
176+60.000
-RB-
12+44.939
EL 48.544
0.076 m/m
49.025
49.025
0.035 m/m
5.858
0.035 m/m
-RC-
12+62.187
EL 51.276
0.066 m/m
46.655
176+40.000
-RB-
12+25.891
EL 48.505
0.076 m/m
49.124
49.124
0.035 m/m
5.858
0.035 m/m
-PC-
12+43.158
EL 50.871
0.076 m/m
46.685
176+20.000
-RB-
12+06.638
EL 48.482
0.076 m/m
49.198
49.198
0.035 m/m
5.858
0.035 m/m
-RC-
12+23.755
EL 50.482
0.060 m/m
46.729
176+00.000
-L-



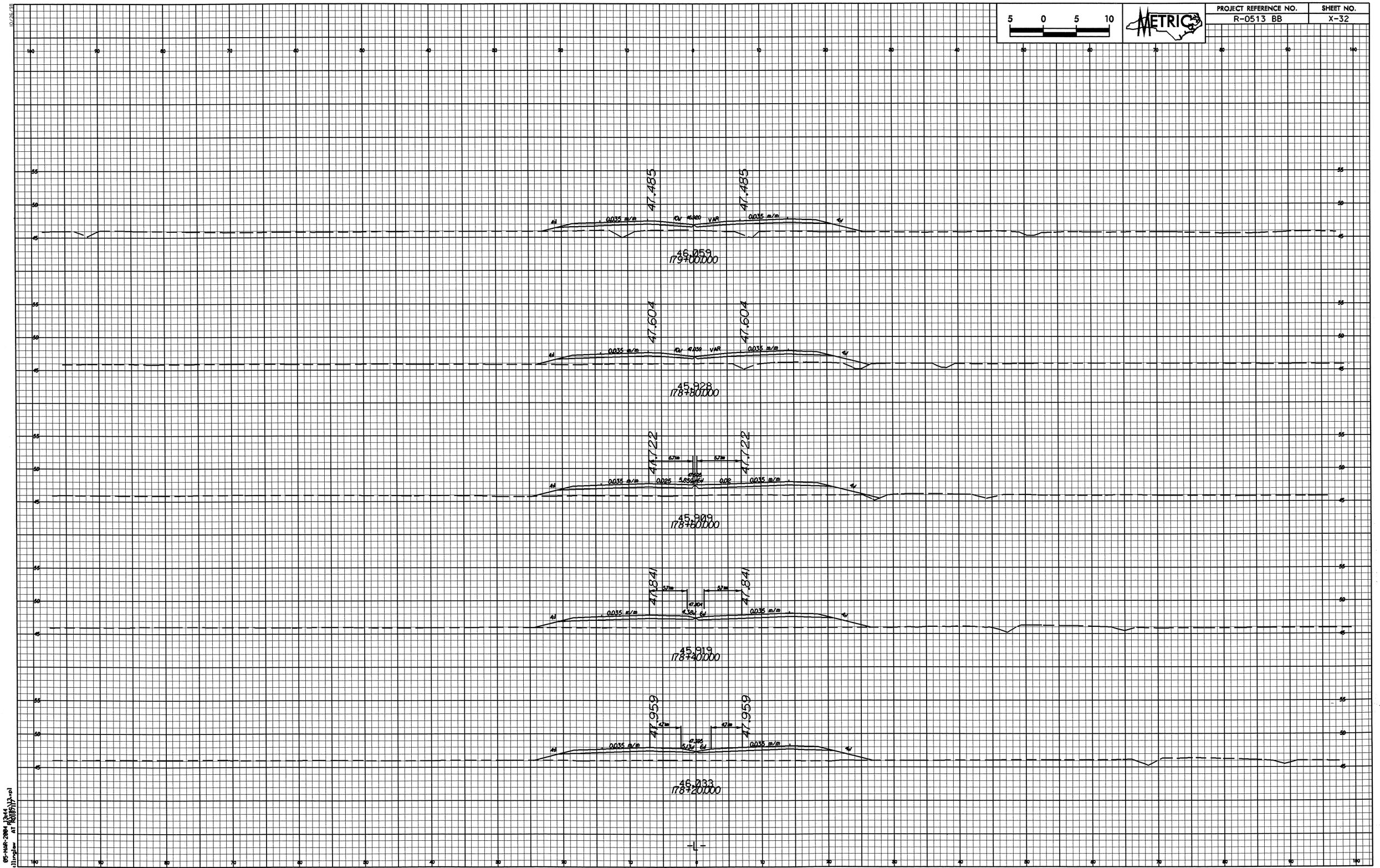
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-30
-RB-
13+19.135
EL 48.842
SEE X-122 FOR
-RB- AHEAD
0.029 m/m
48.552
48.552
0.035 m/m
0.035 m/m
46.563
177+20.000
-RB-
13+00.593
EL 48.753
0.075 m/m
48.670
48.670
0.035 m/m
0.035 m/m
SEE X-126 FOR
-RC- AHEAD
-RC-
13+21.185
EL 52.544
0.025 m/m
46.675
177+00.000
-RB-
12+82.315
EL 48.669
0.076 m/m
48.789
48.789
0.035 m/m
0.035 m/m
-RC-
13+01.94
EL 52.114
0.033 m/m
46.654
176+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-31



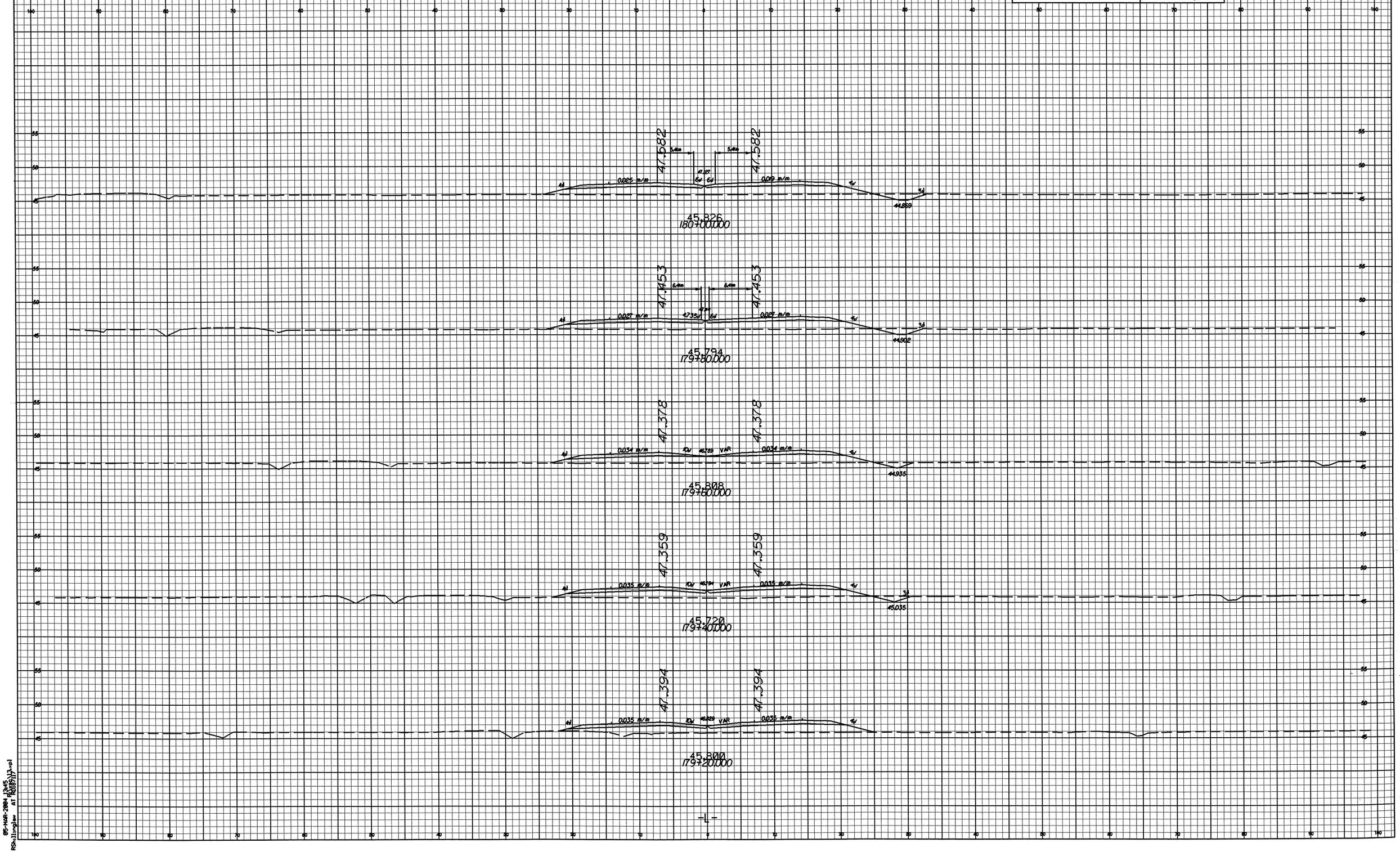
05-MAR-2004 14:47
RShillinglaw AT R0185113.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-32



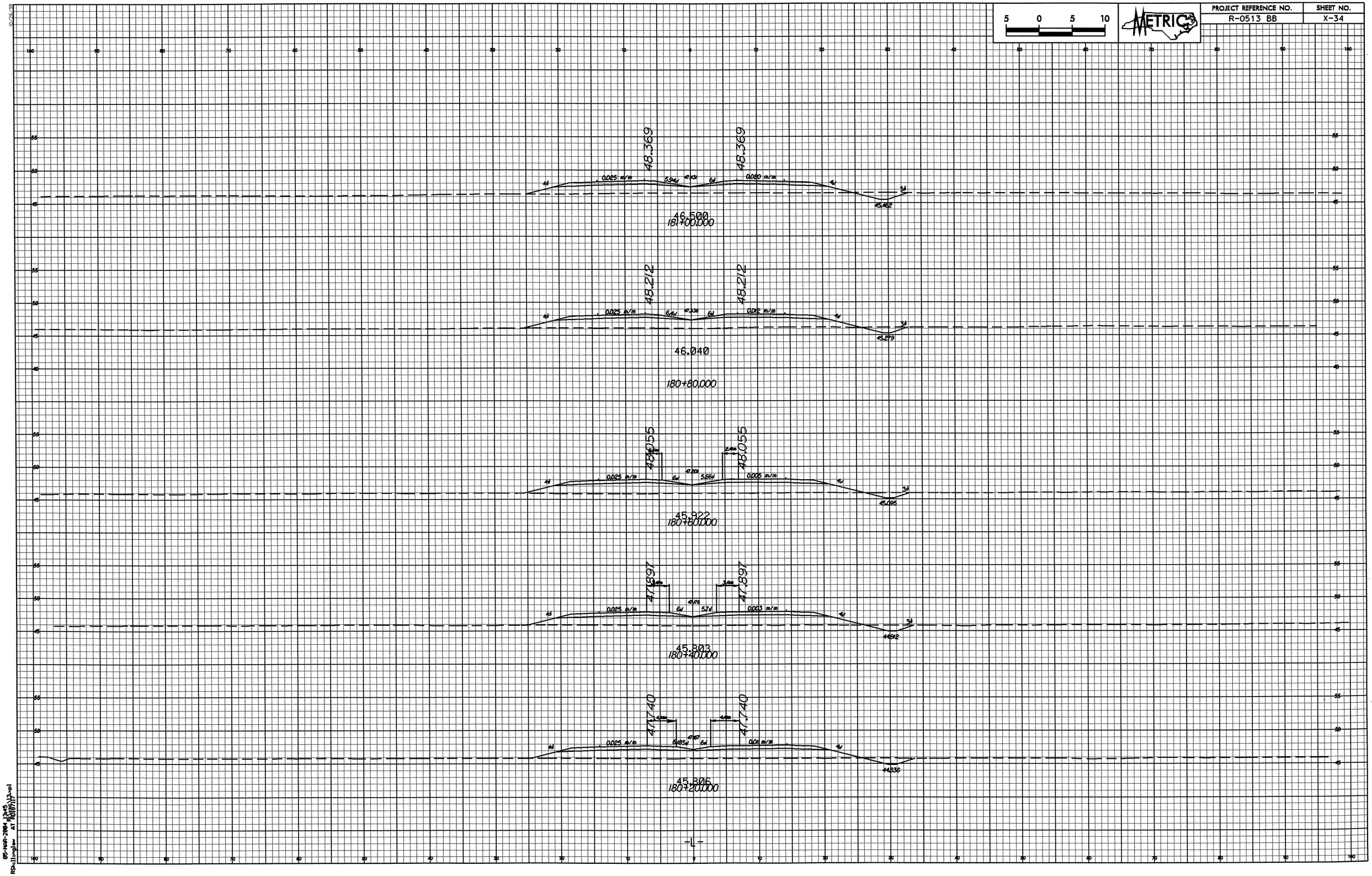
05-MAR-2004 13:44
RShillinglaw AT R0187117

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-33

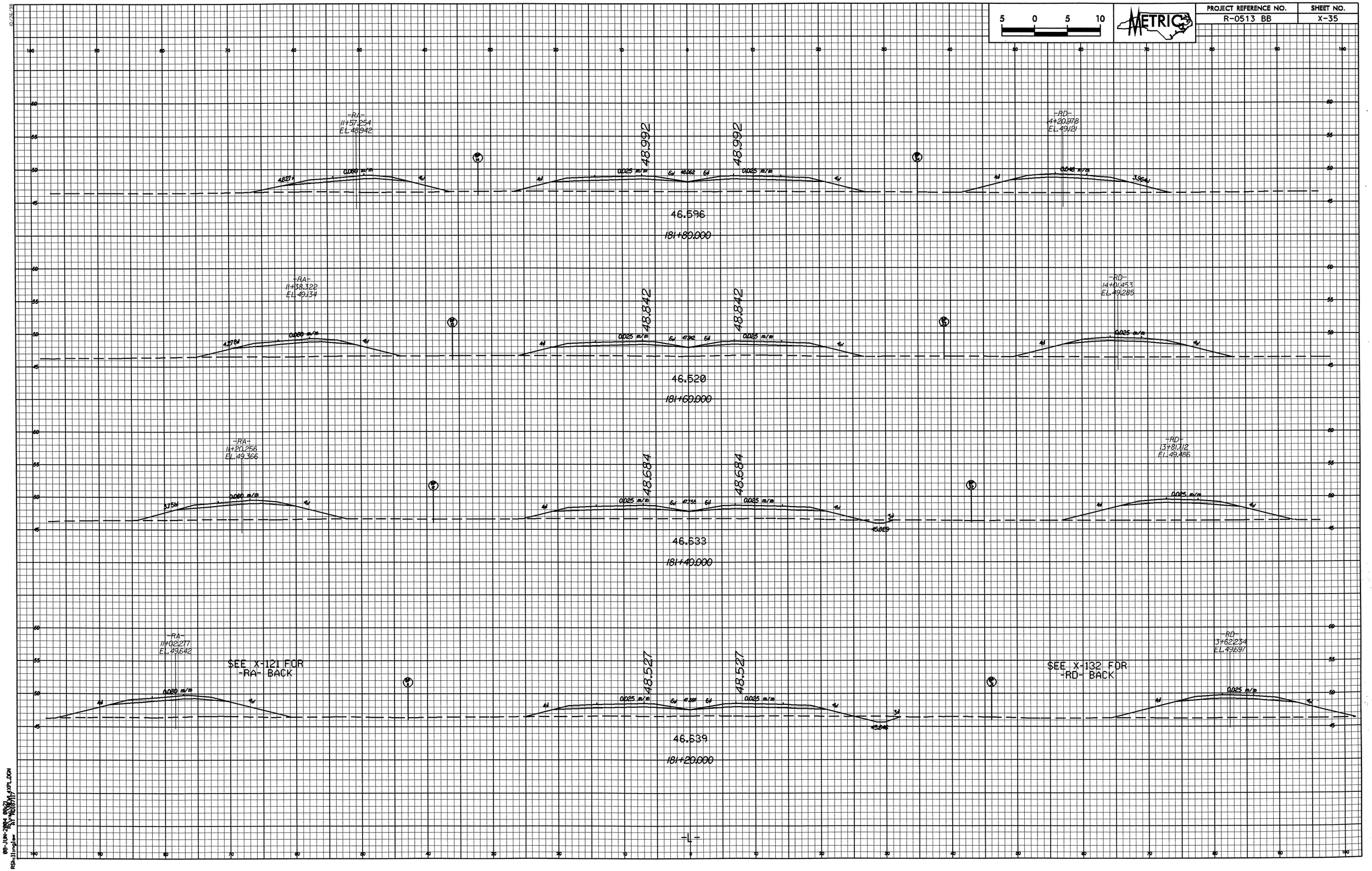


05-MAR-2004 13:45
RShillingler AT R0187117.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-34

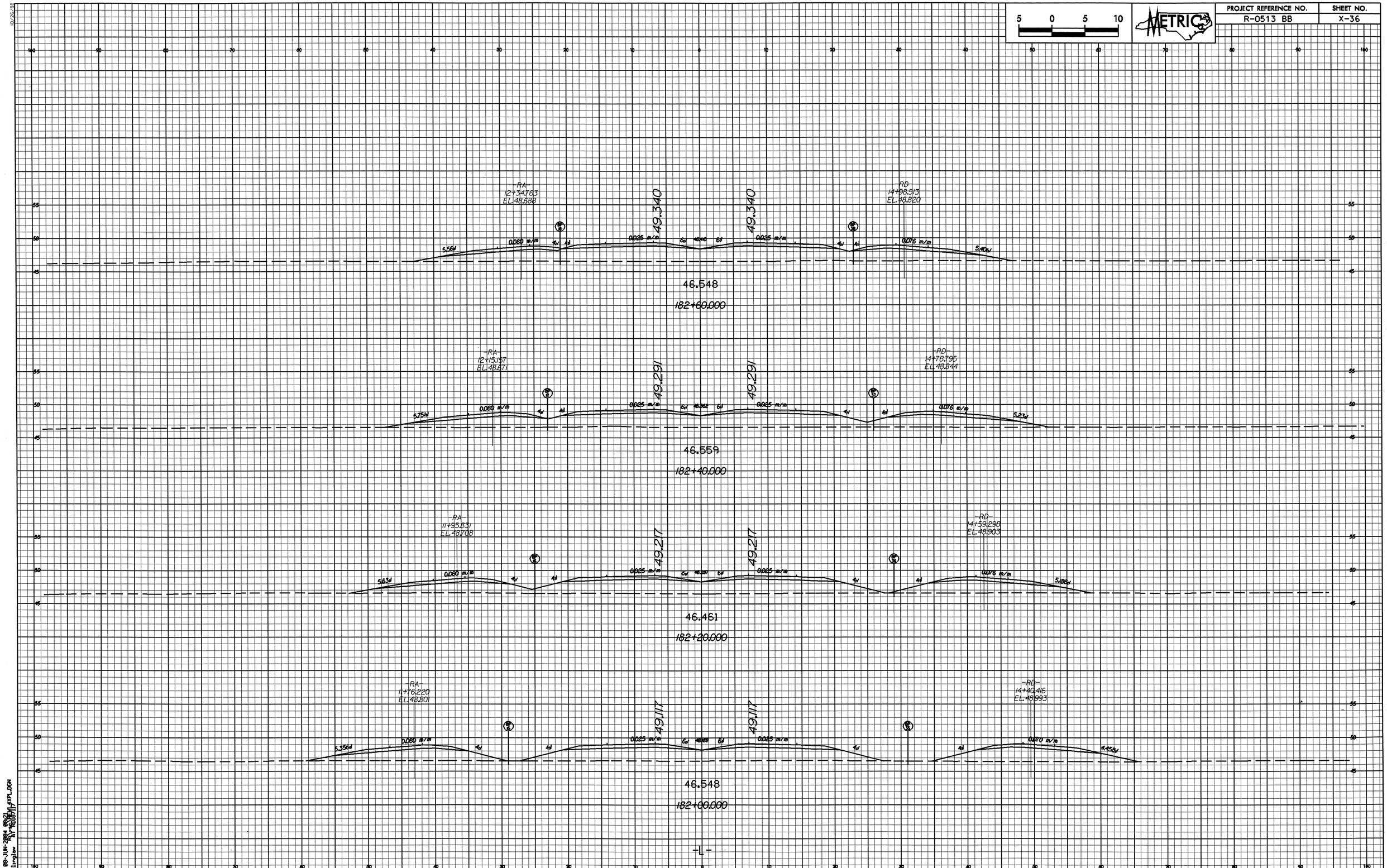


05-MAR-2004 13:45
RShillingLaw AT R0187117

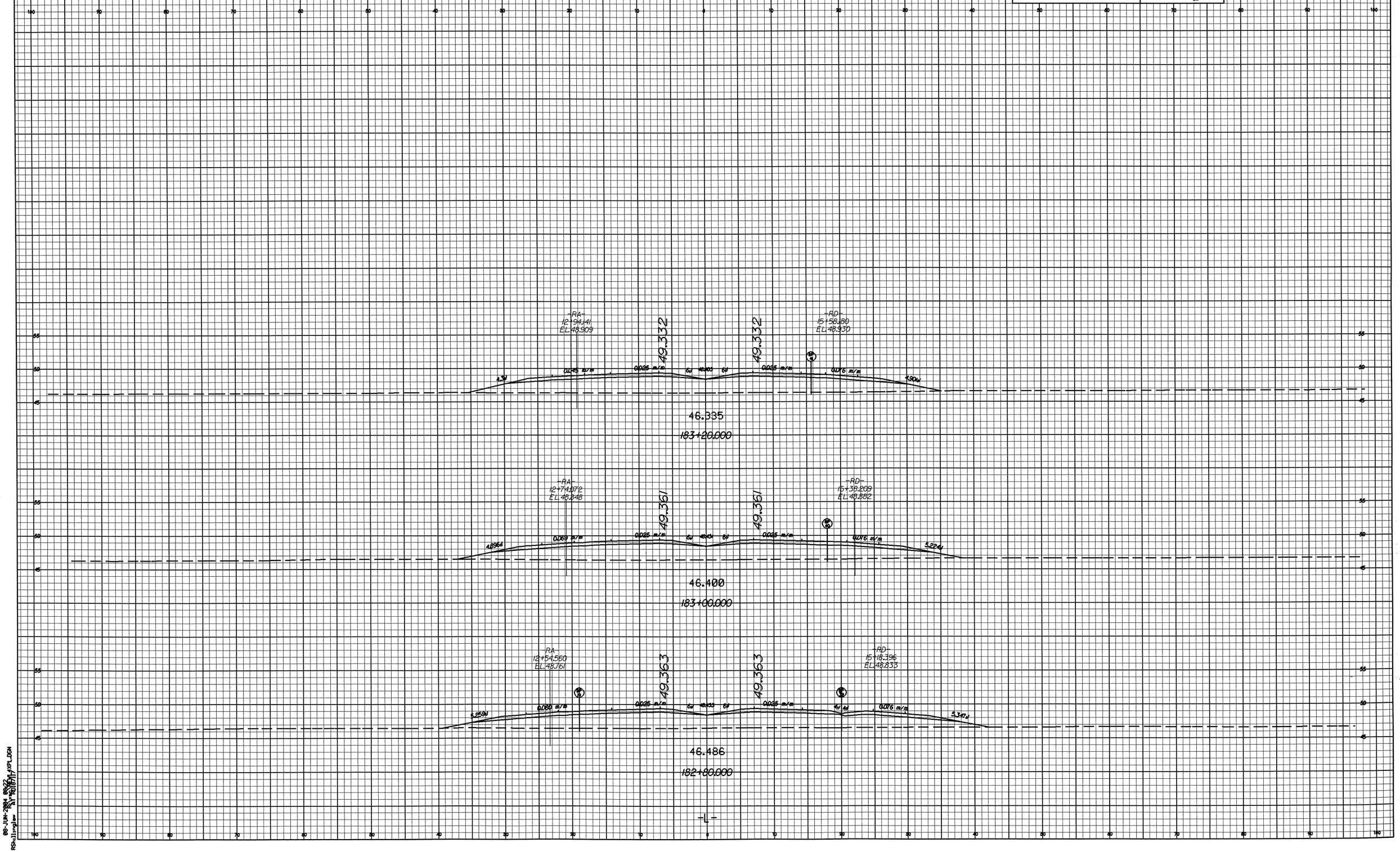


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-35
-RA-
11+57.254
EL.48.942
48.992
48.992
-RD-
14+20.978
EL.49.121
46.596
181+80.000
-RA-
11+38.322
EL.49.134
48.842
48.842
-RD-
14+01.453
EL.49.285
46.520
181+60.000
-RA-
11+20.256
EL.49.366
48.684
48.684
-RD-
13+81.712
EL.49.486
46.633
181+40.000
-RA-
11+02.277
EL.49.642
SEE X-121 FOR
-RA- BACK
48.527
48.527
-RD-
13+62.234
EL.49.697
SEE X-132 FOR
-RD- BACK
46.639
181+20.000
-L-

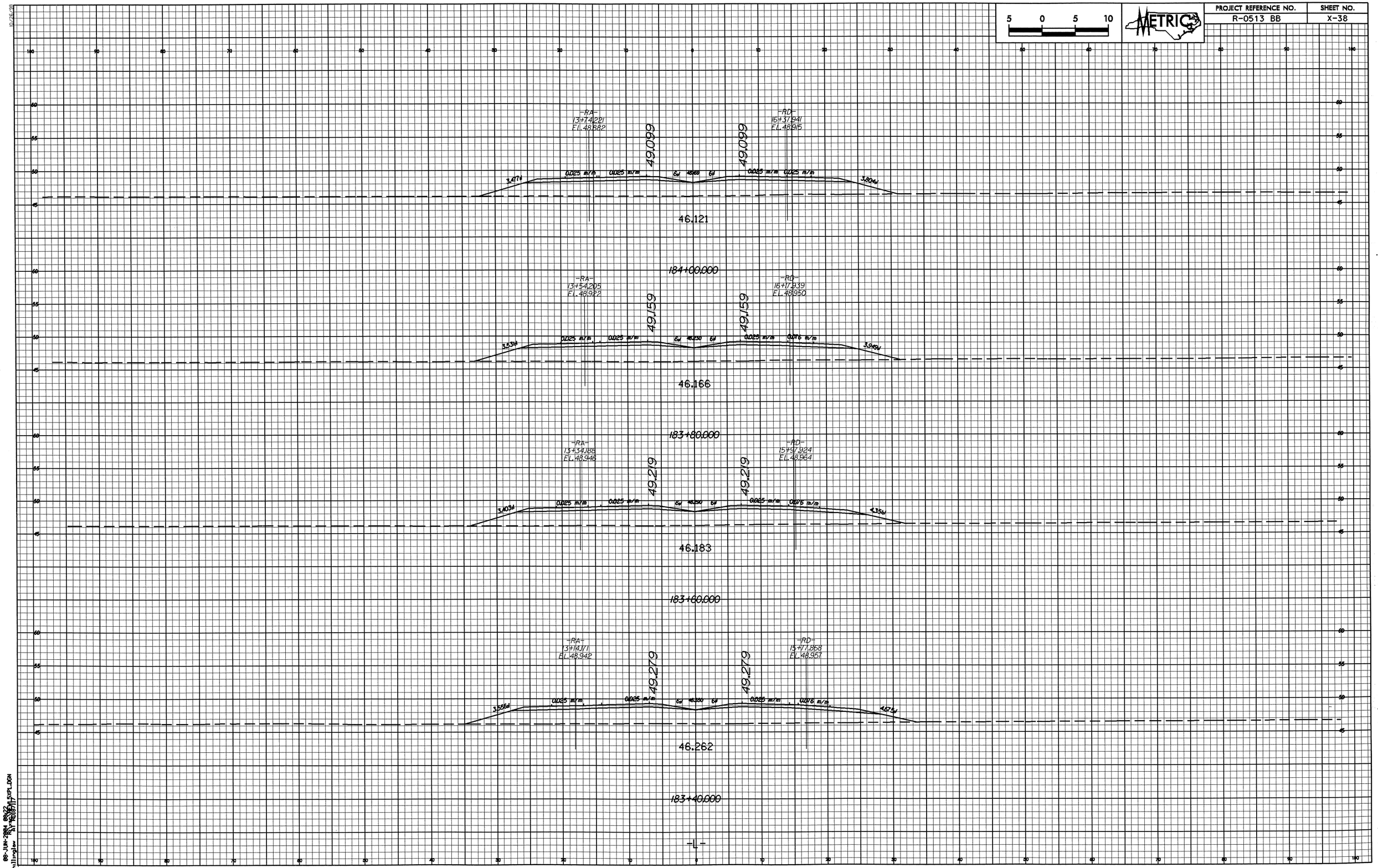
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-36



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-37

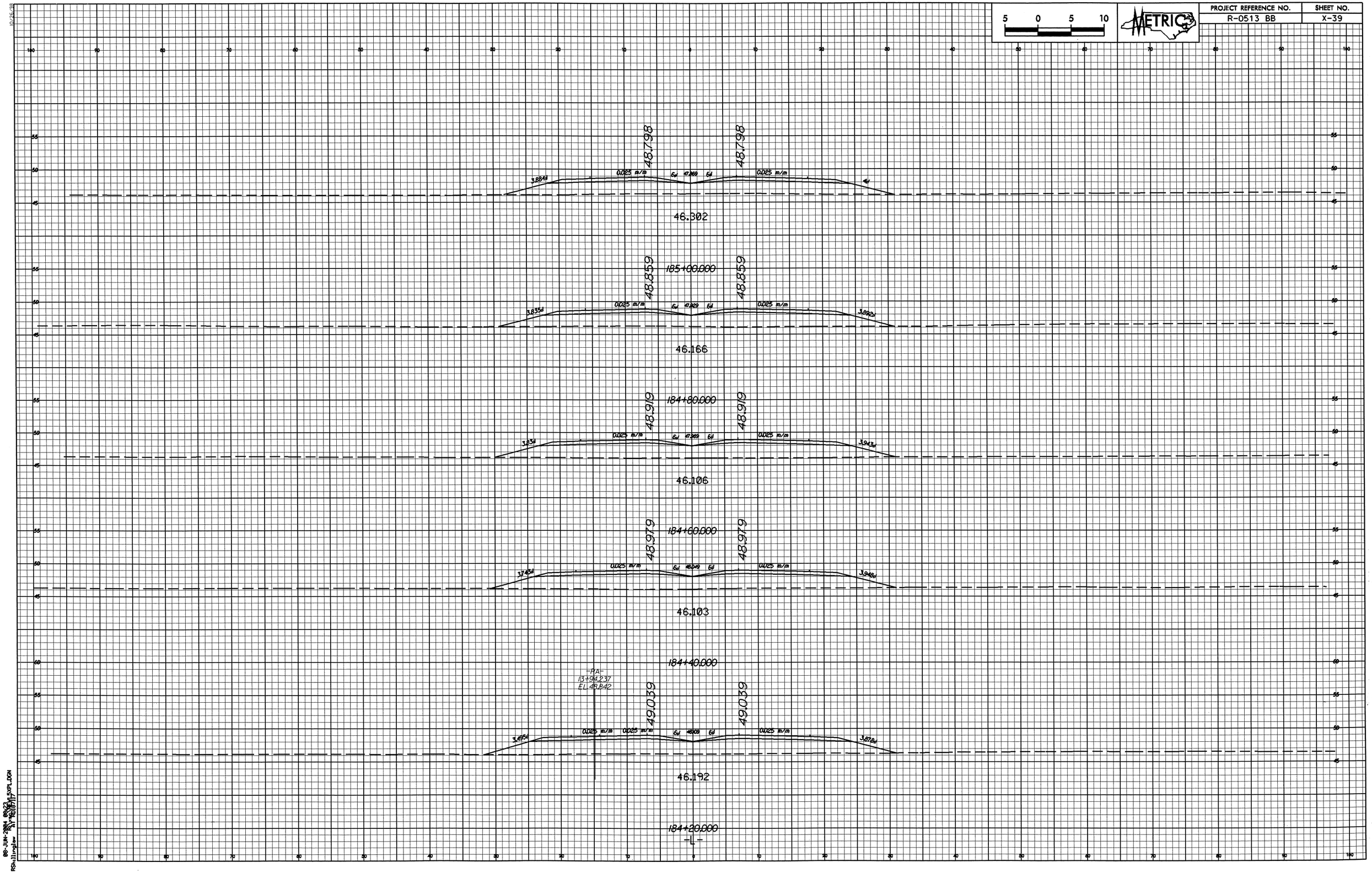


PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-38

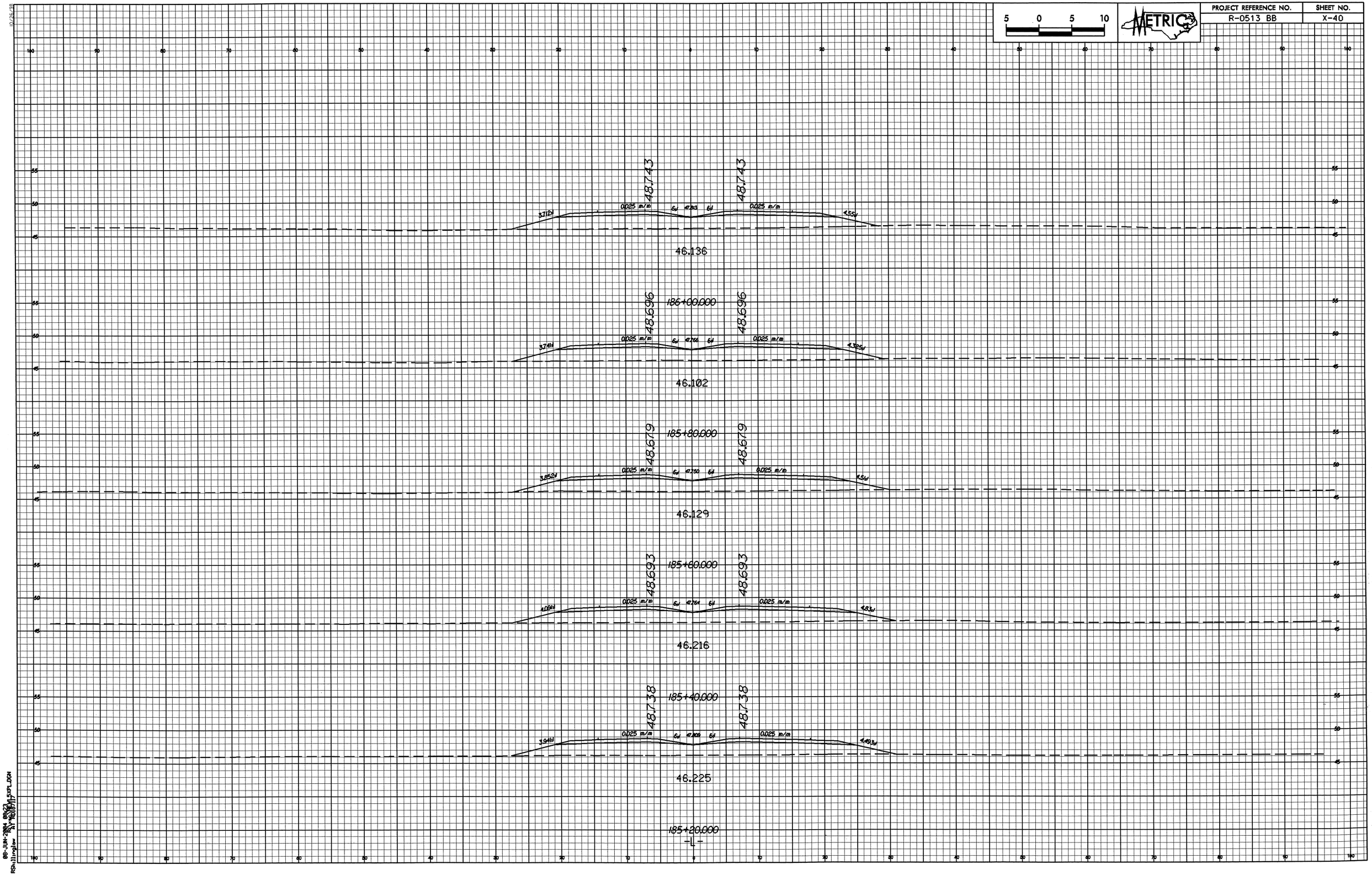


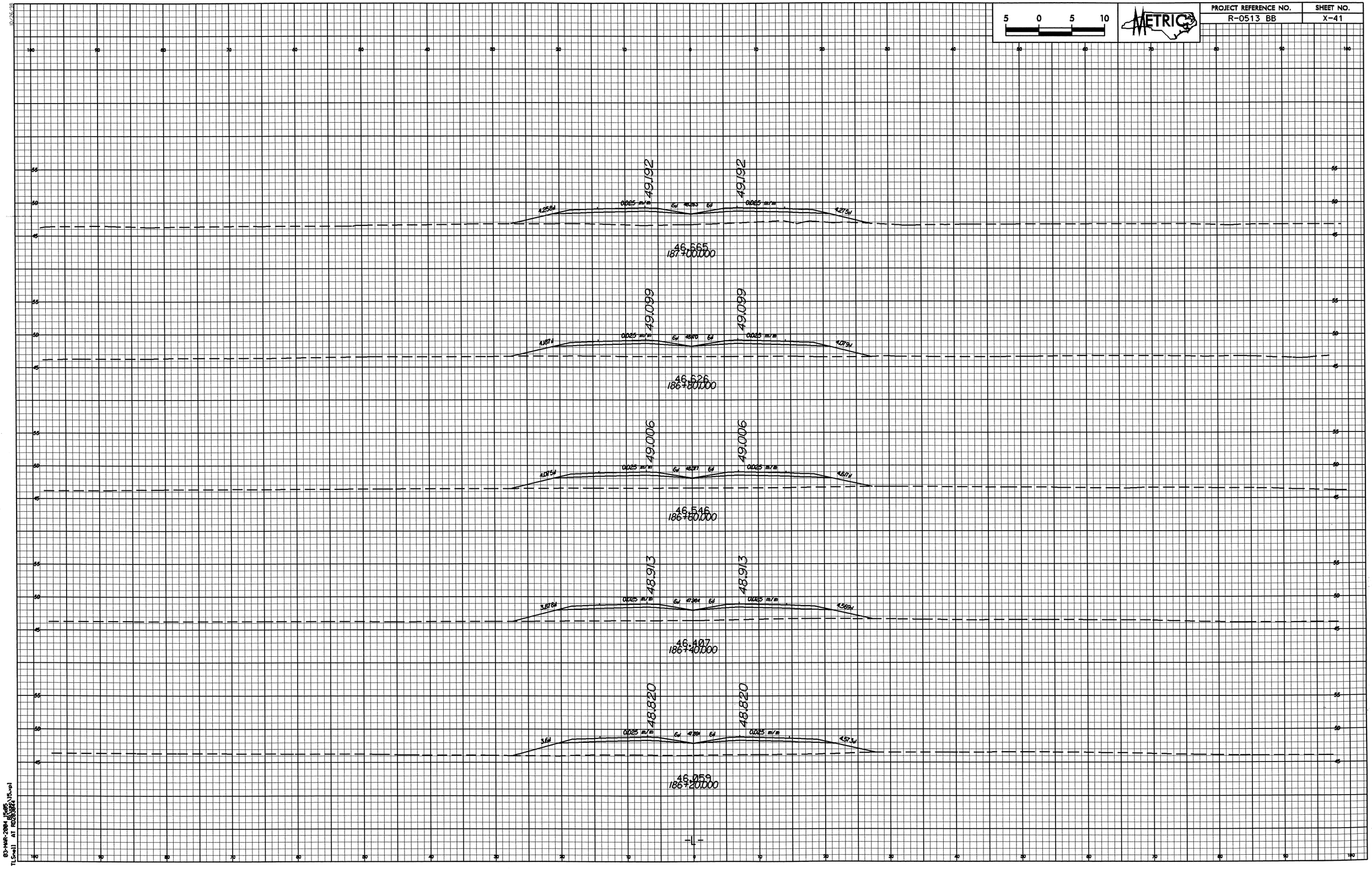
08-JUN-2004 08:22
RShillinglaw

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-39



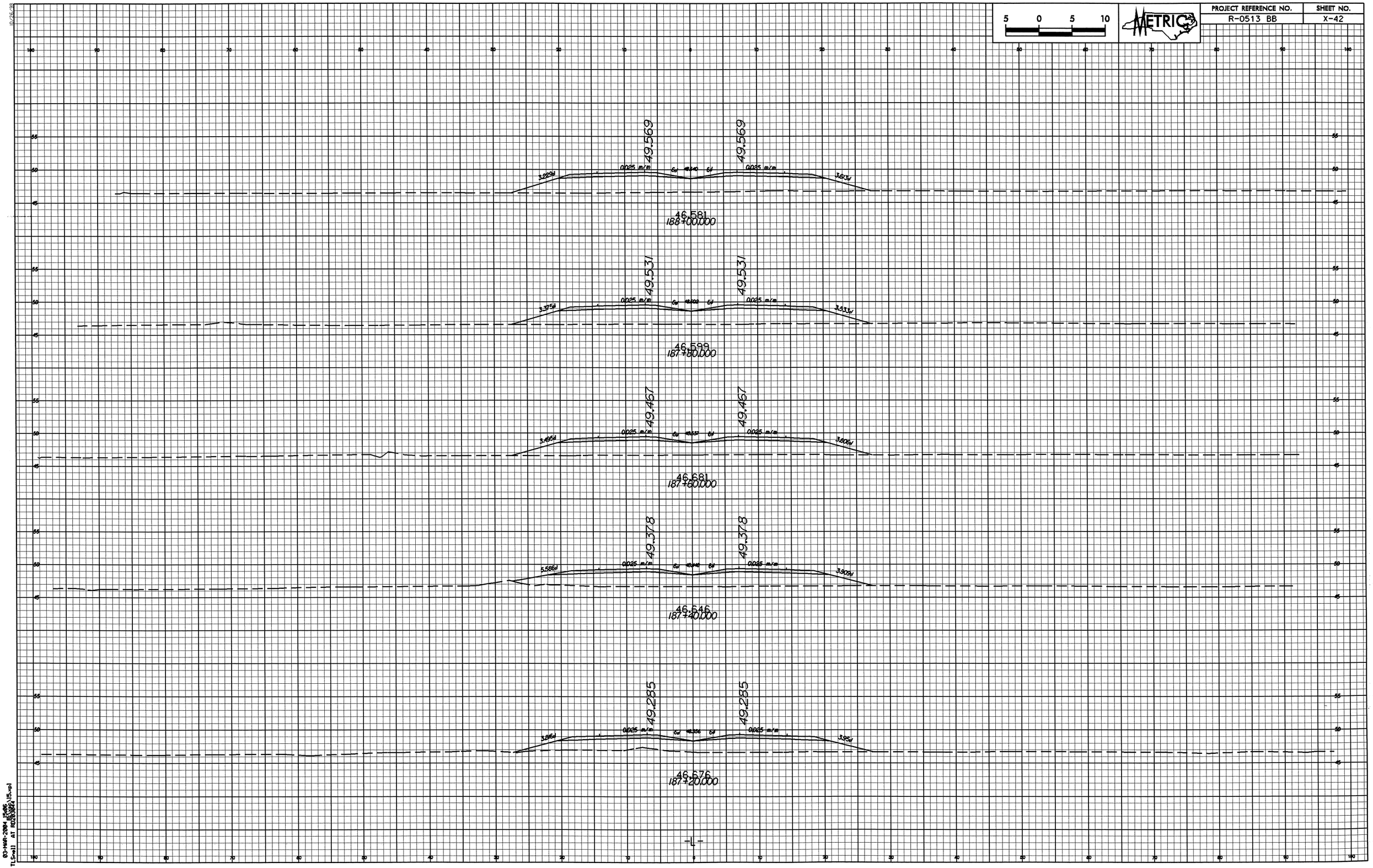
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-40





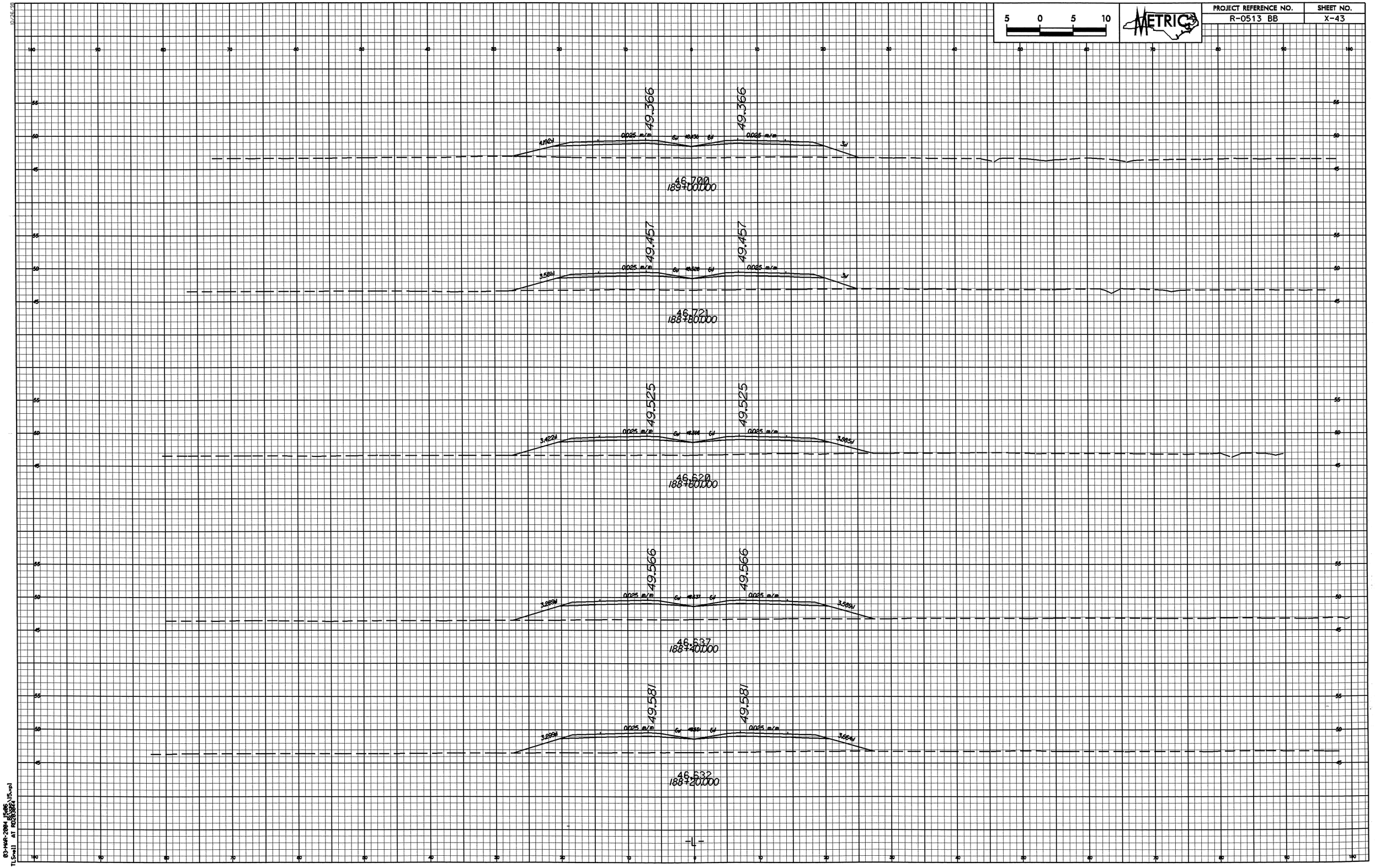
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-41
49.192
49.192
0.025 m/m
0.025 m/m
46.665
187+00.000
49.099
49.099
0.025 m/m
0.025 m/m
46.626
186+80.000
49.006
49.006
0.025 m/m
0.025 m/m
46.546
186+60.000
48.913
48.913
0.025 m/m
0.025 m/m
46.407
186+40.000
48.820
48.820
0.025 m/m
0.025 m/m
46.059
186+20.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-42

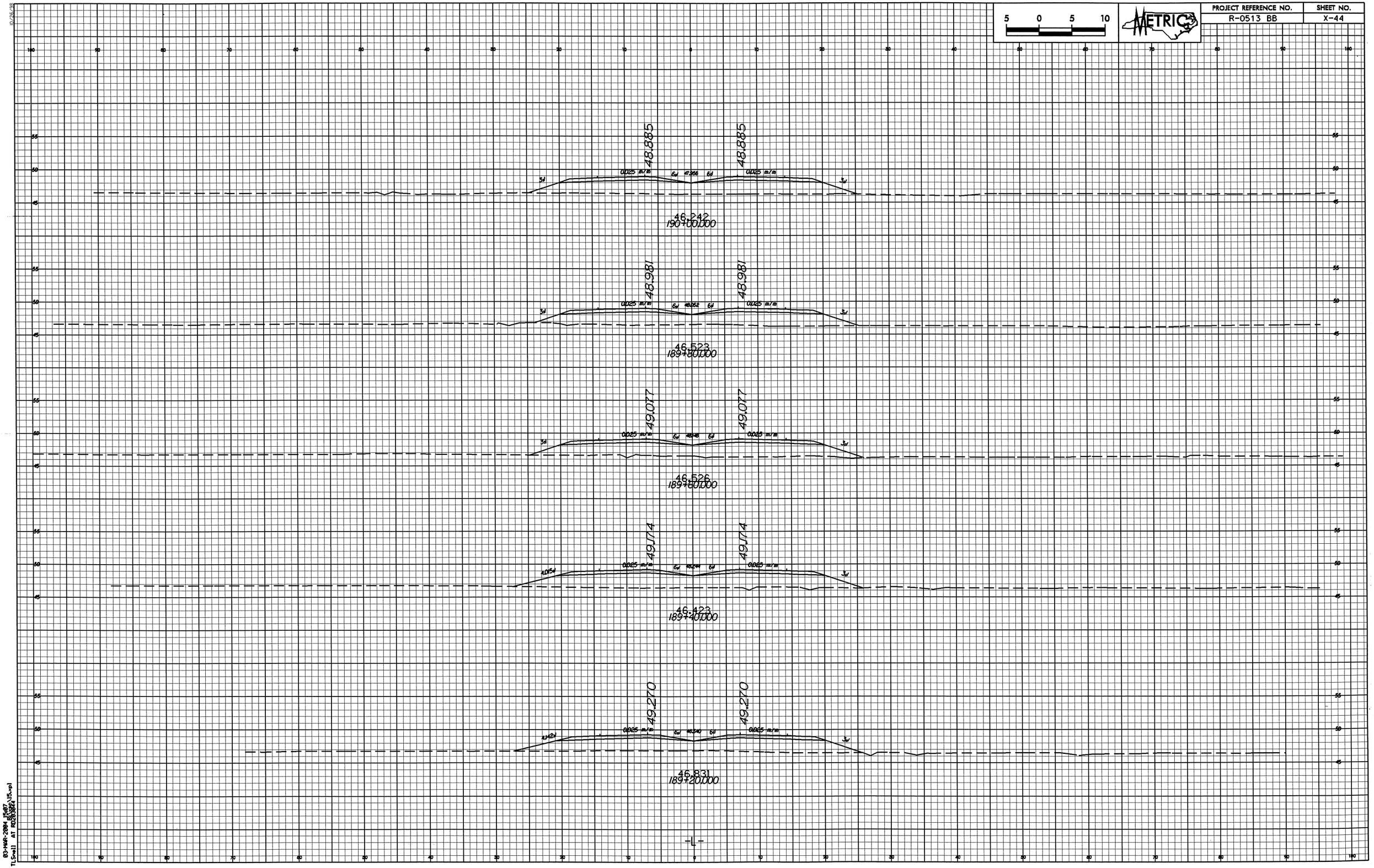


03-MAR-2004 15:06
TLSnell AT RD283844

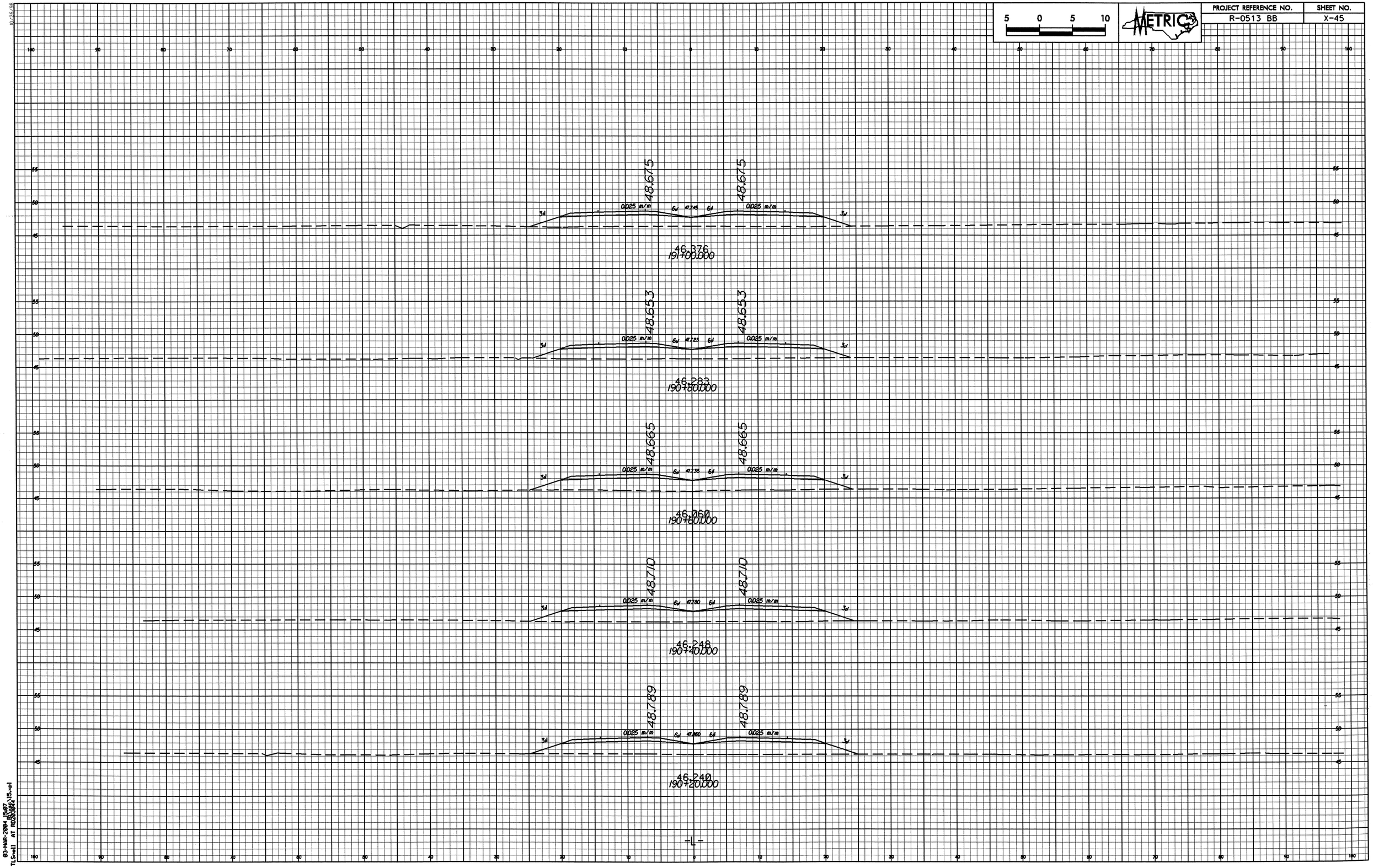
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-43



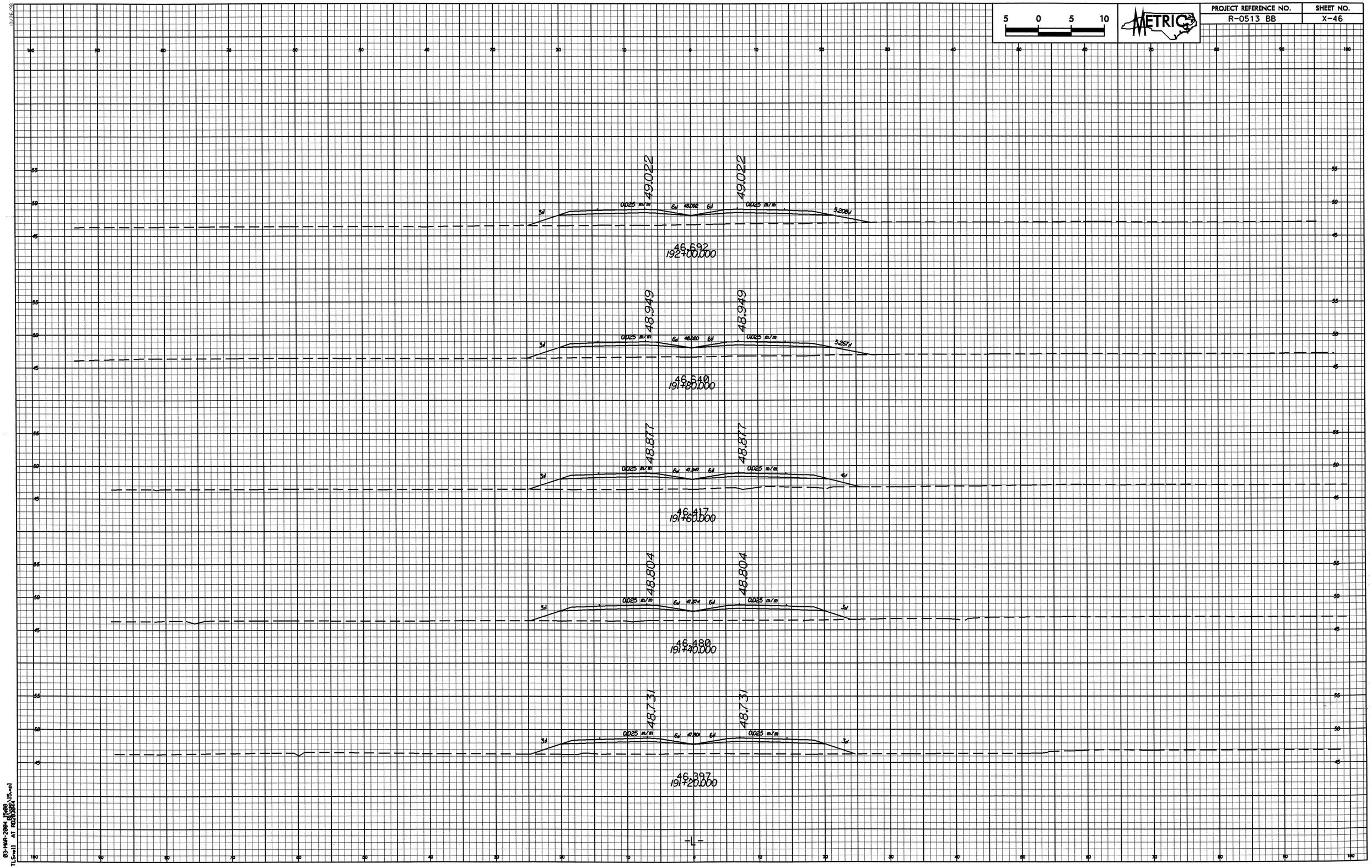
03-MAR-2004 15:06
TLSnell AT RD283844



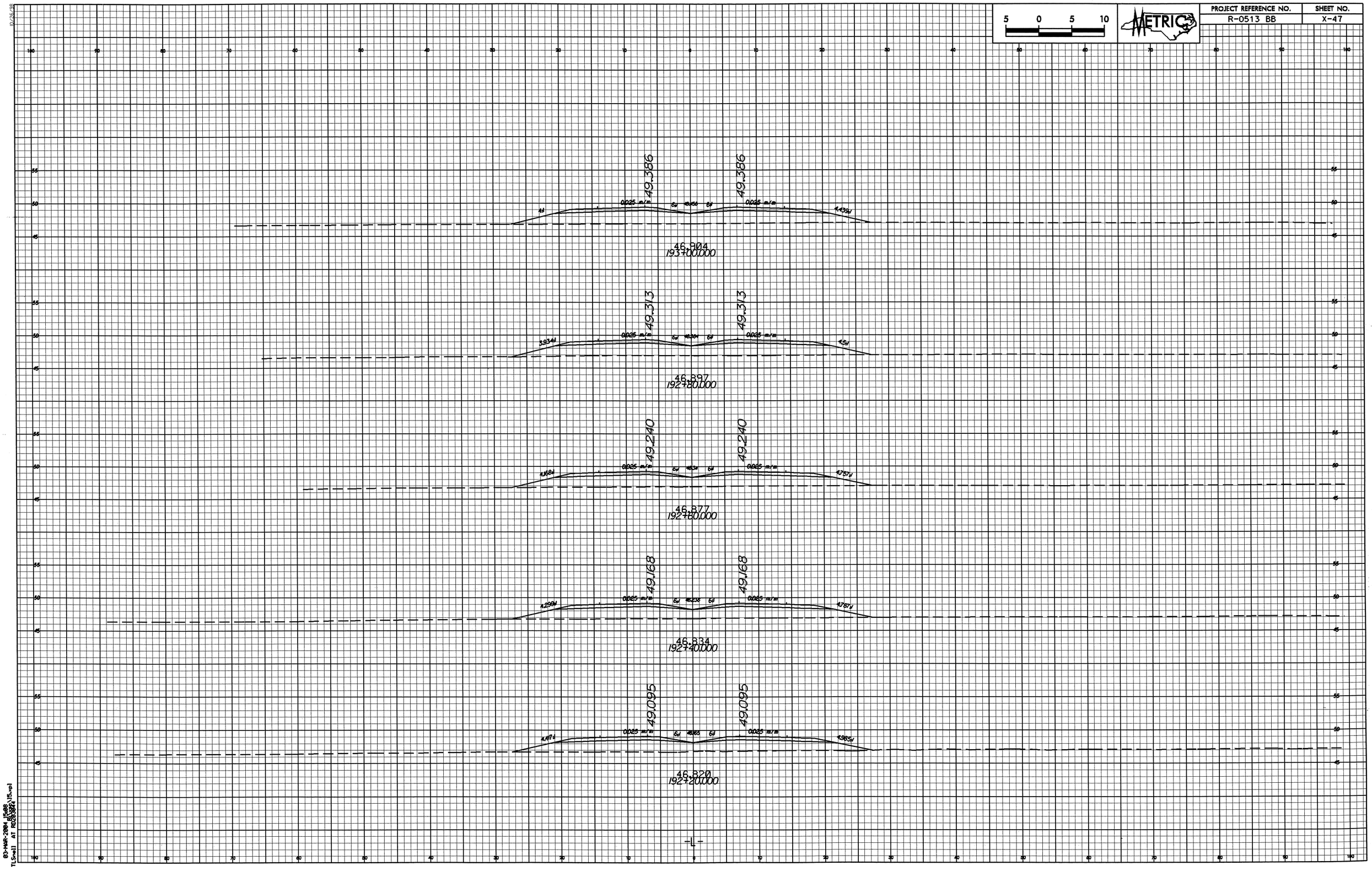
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-44
48.885
48.885
0.025 m/m
46.242
190+00.000
48.981
48.981
0.025 m/m
46.523
189+80.000
49.077
49.077
0.025 m/m
46.526
189+60.000
49.174
49.174
0.025 m/m
46.423
189+40.000
49.270
49.270
0.025 m/m
46.831
189+20.000
-L-



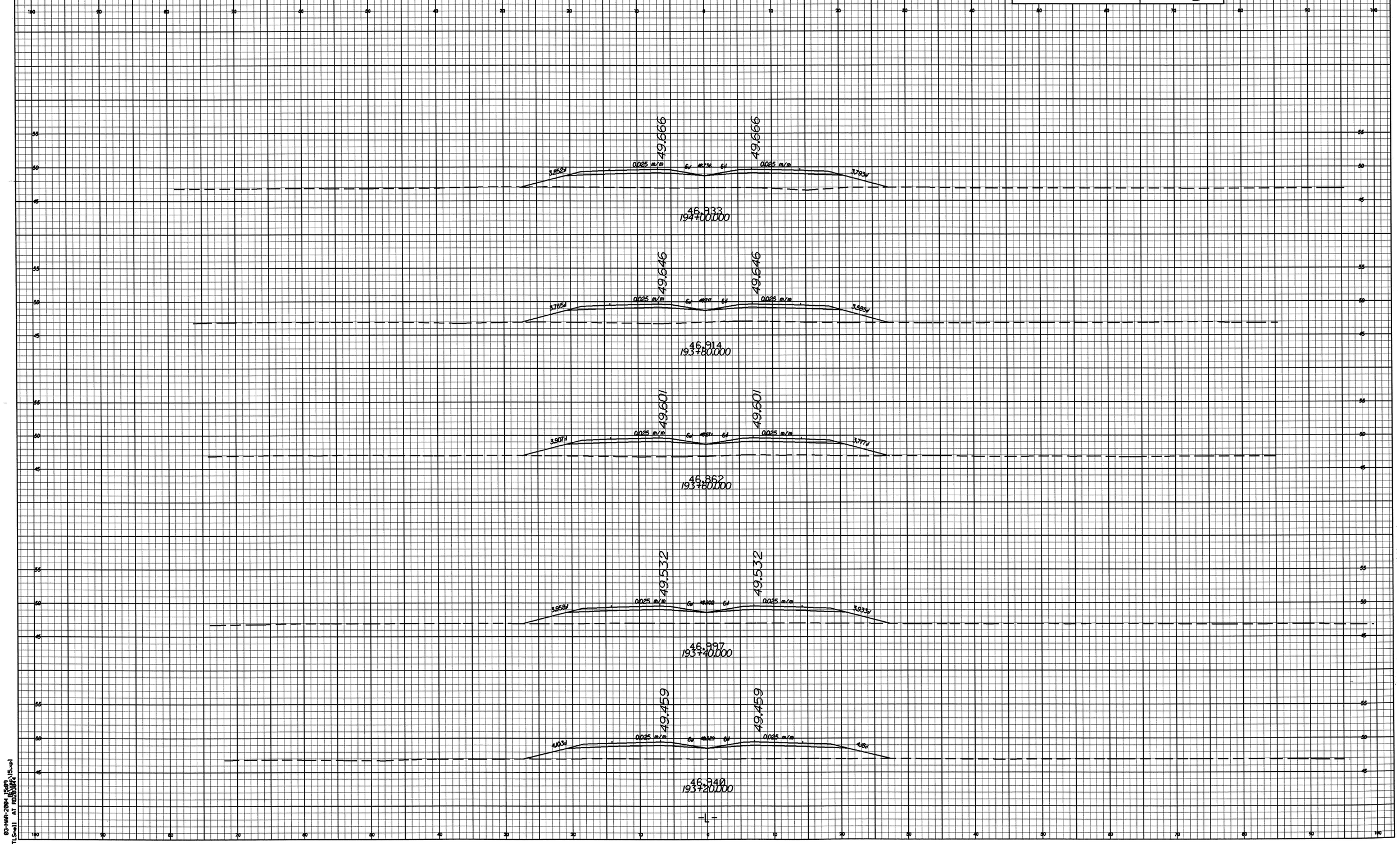
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-45
48.675
48.675
0.025 m/m
0.025 m/m
46.376
191+00.000
48.653
48.653
0.025 m/m
0.025 m/m
46.283
190+80.000
48.665
48.665
0.025 m/m
0.025 m/m
46.060
190+60.000
48.710
48.710
0.025 m/m
0.025 m/m
46.248
190+40.000
48.789
48.789
0.025 m/m
0.025 m/m
46.240
190+20.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-46
49.022
49.022
0.025 m/m
0.025 m/m
46.692
192+00.000
48.949
48.949
0.025 m/m
0.025 m/m
46.640
191+80.000
48.877
48.877
0.025 m/m
0.025 m/m
46.417
191+60.000
48.804
48.804
0.025 m/m
0.025 m/m
46.480
191+40.000
48.731
48.731
0.025 m/m
0.025 m/m
46.397
191+20.000
-L-

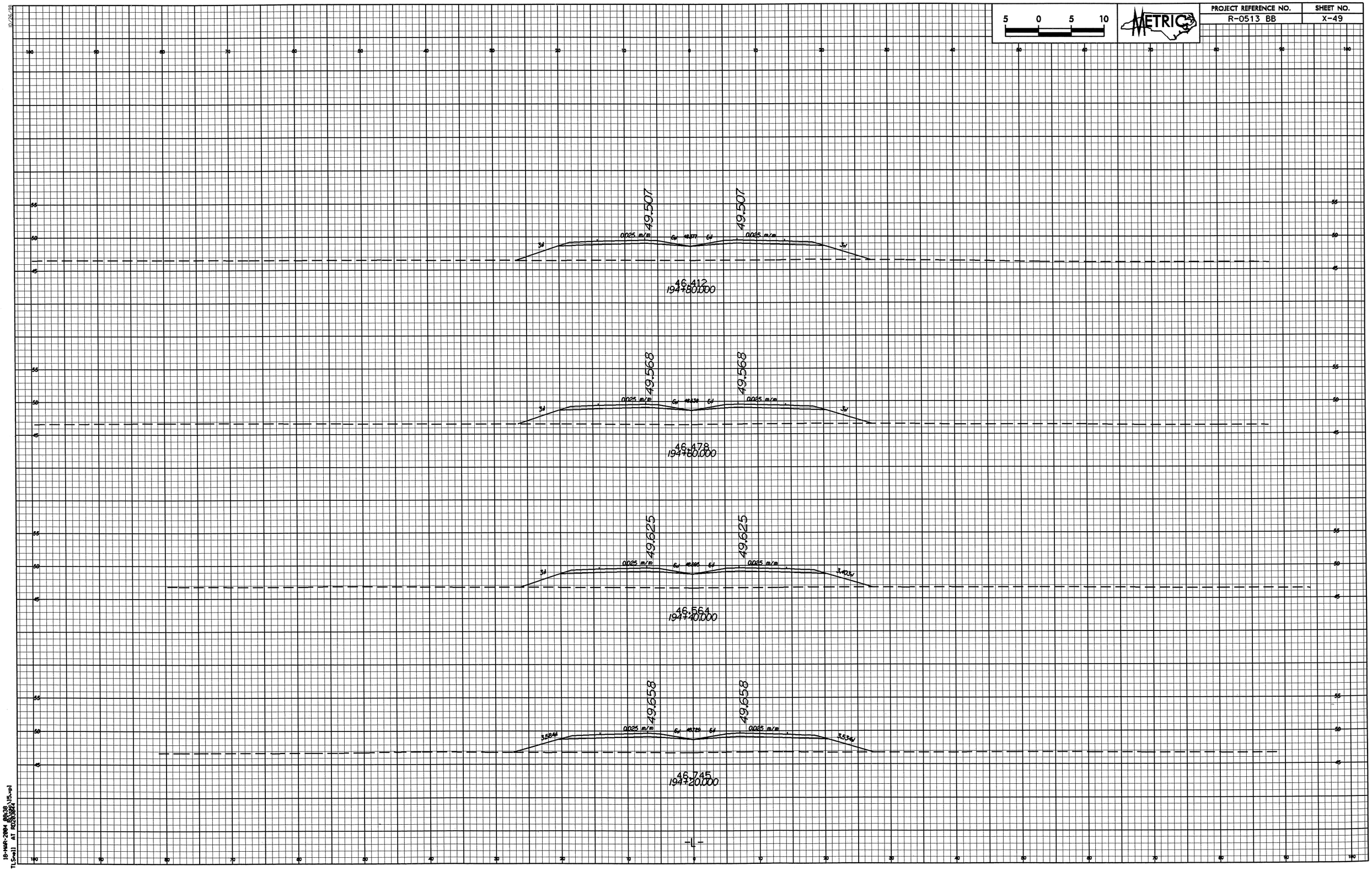


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-47
49.386
49.386
0.025 m/m
0.025 m/m
4.439
46.904
193+00.000
49.313
49.313
0.025 m/m
0.025 m/m
3.934
4.5
46.897
192+80.000
49.240
49.240
0.025 m/m
0.025 m/m
4.168
4.757
46.877
192+60.000
49.168
49.168
0.025 m/m
0.025 m/m
4.299
4.787
46.834
192+40.000
49.095
49.095
0.025 m/m
0.025 m/m
4.117
4.985
46.820
192+20.000
-L-



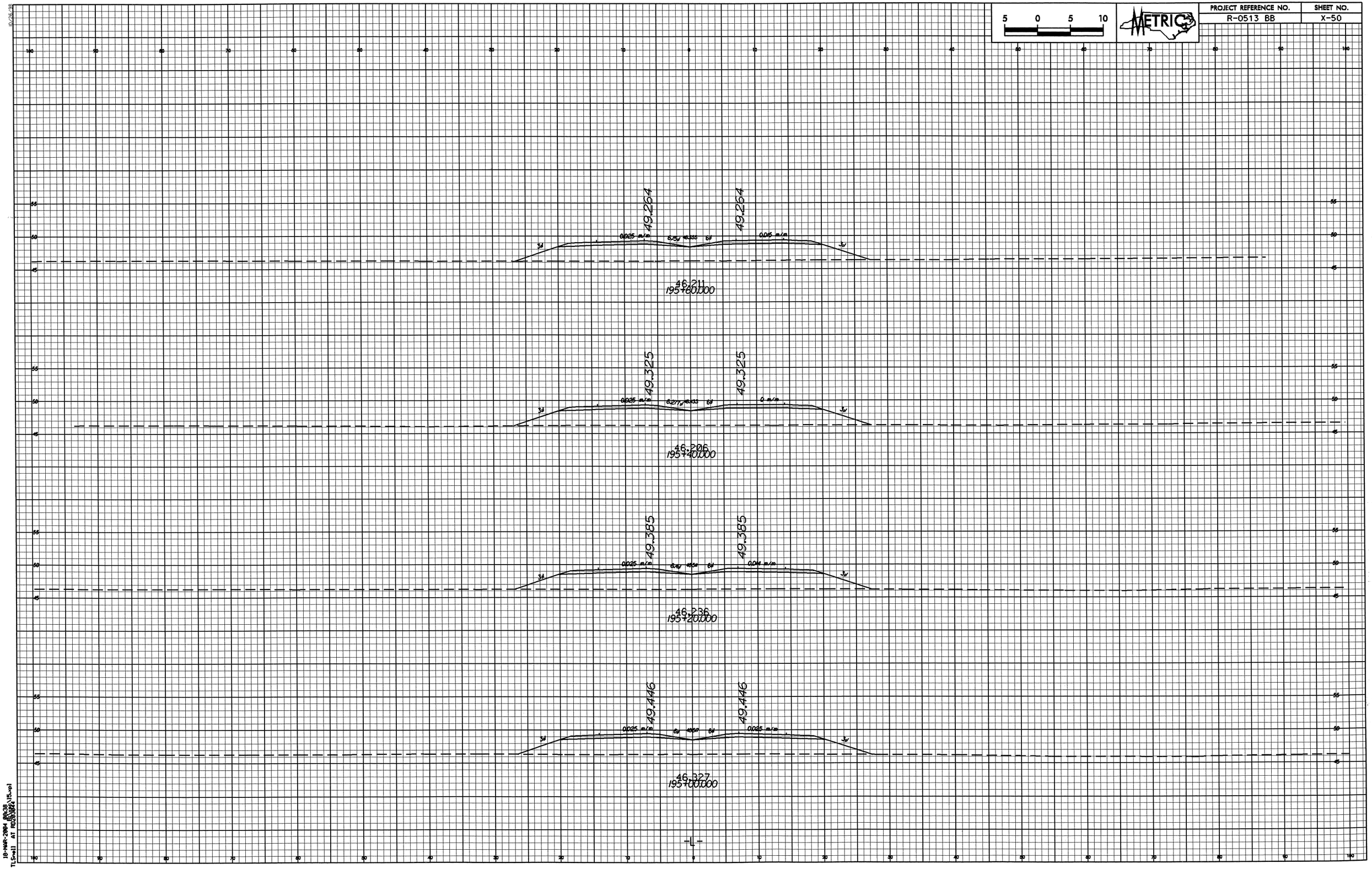
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-48
49.666
49.666
0.025 m/m
0.025 m/m
46.933
194+00.000
49.646
49.646
0.025 m/m
0.025 m/m
46.914
193+80.000
49.601
49.601
0.025 m/m
0.025 m/m
46.862
193+60.000
49.532
49.532
0.025 m/m
0.025 m/m
46.997
193+40.000
49.459
49.459
0.025 m/m
0.025 m/m
46.940
193+20.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-49

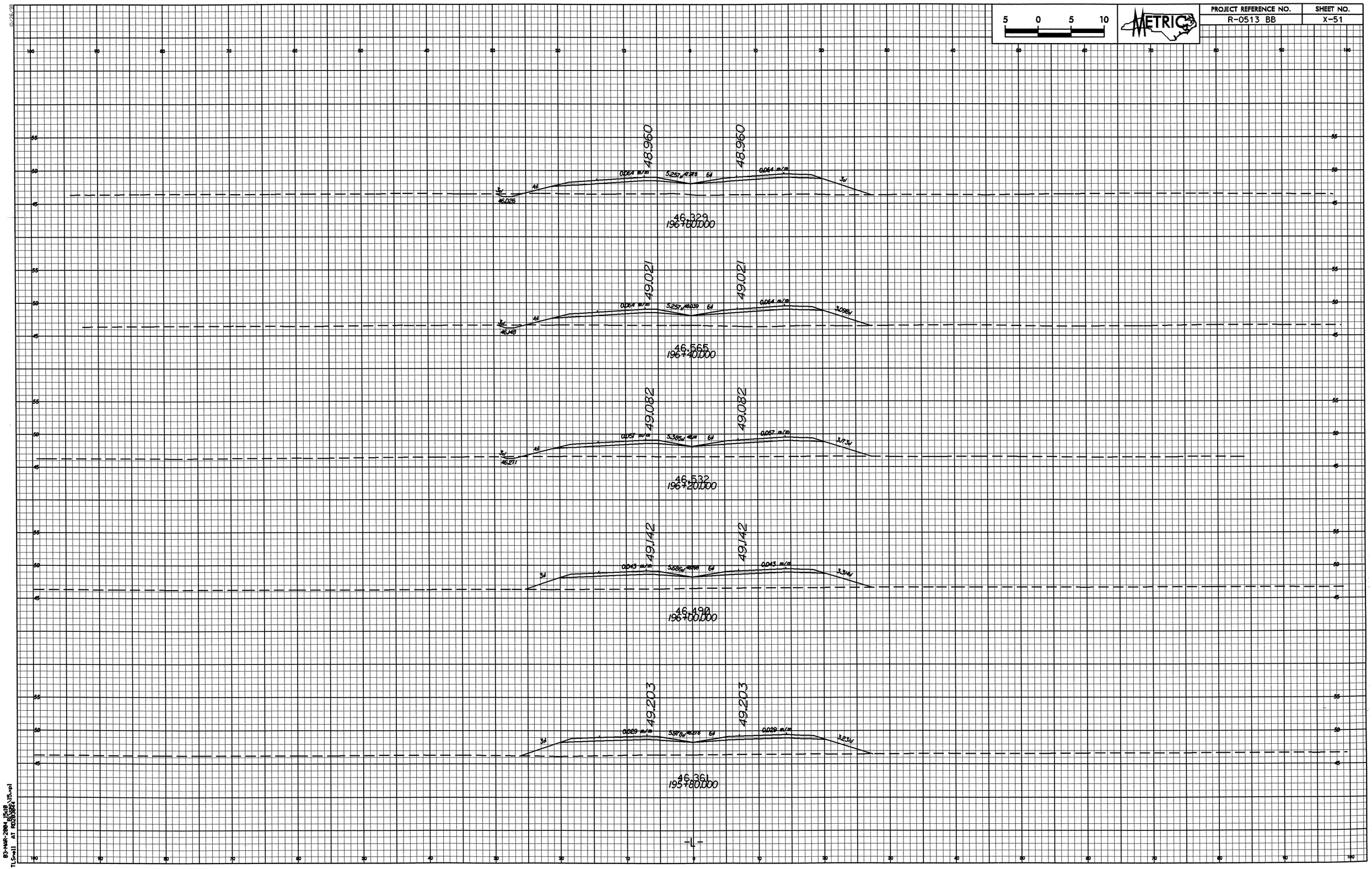


18-MAR-2004 08:38
TLSnell AT RD2838A4

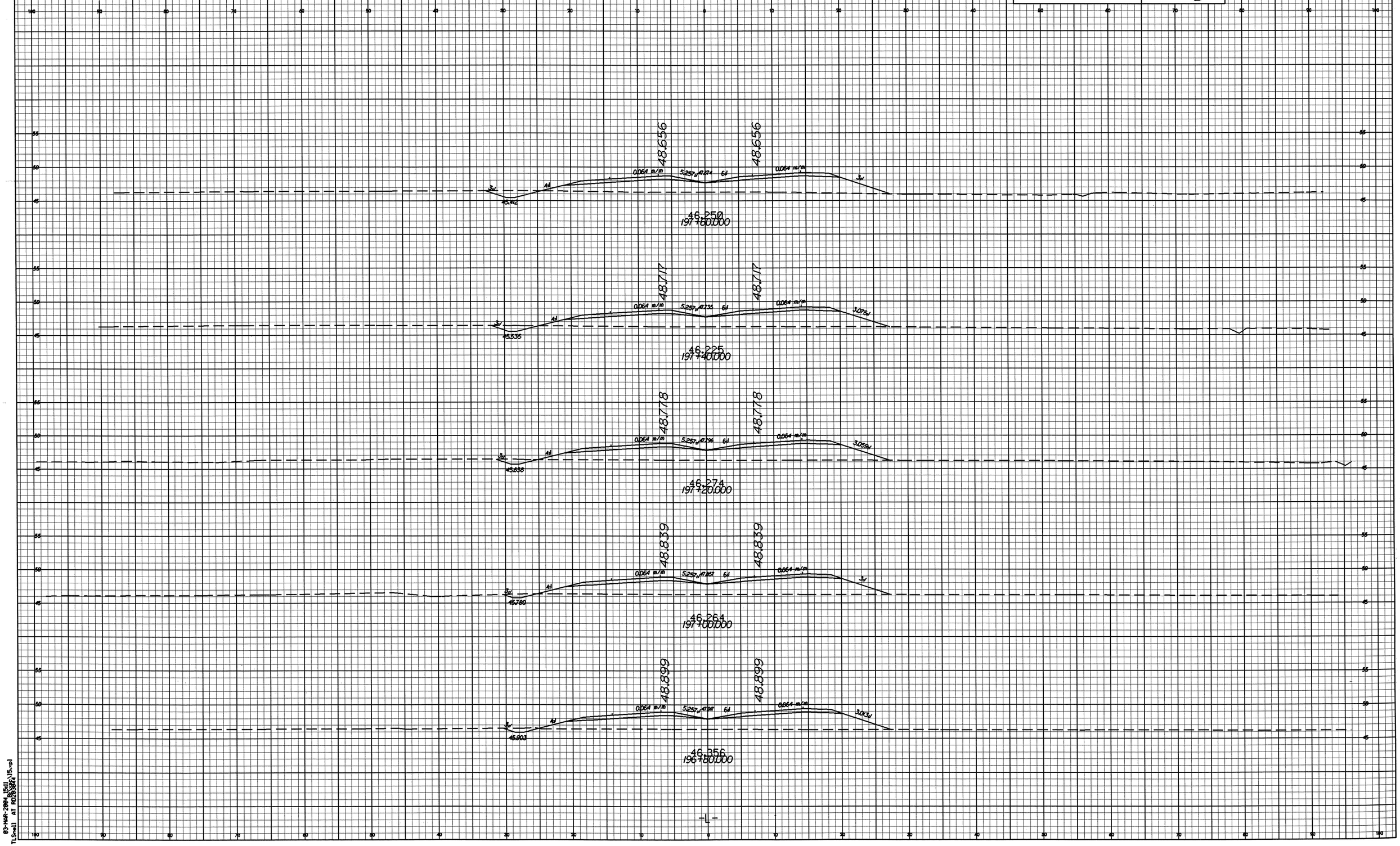
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-50



18-MAR-2004 08:38
TLSmall AT RD2003044

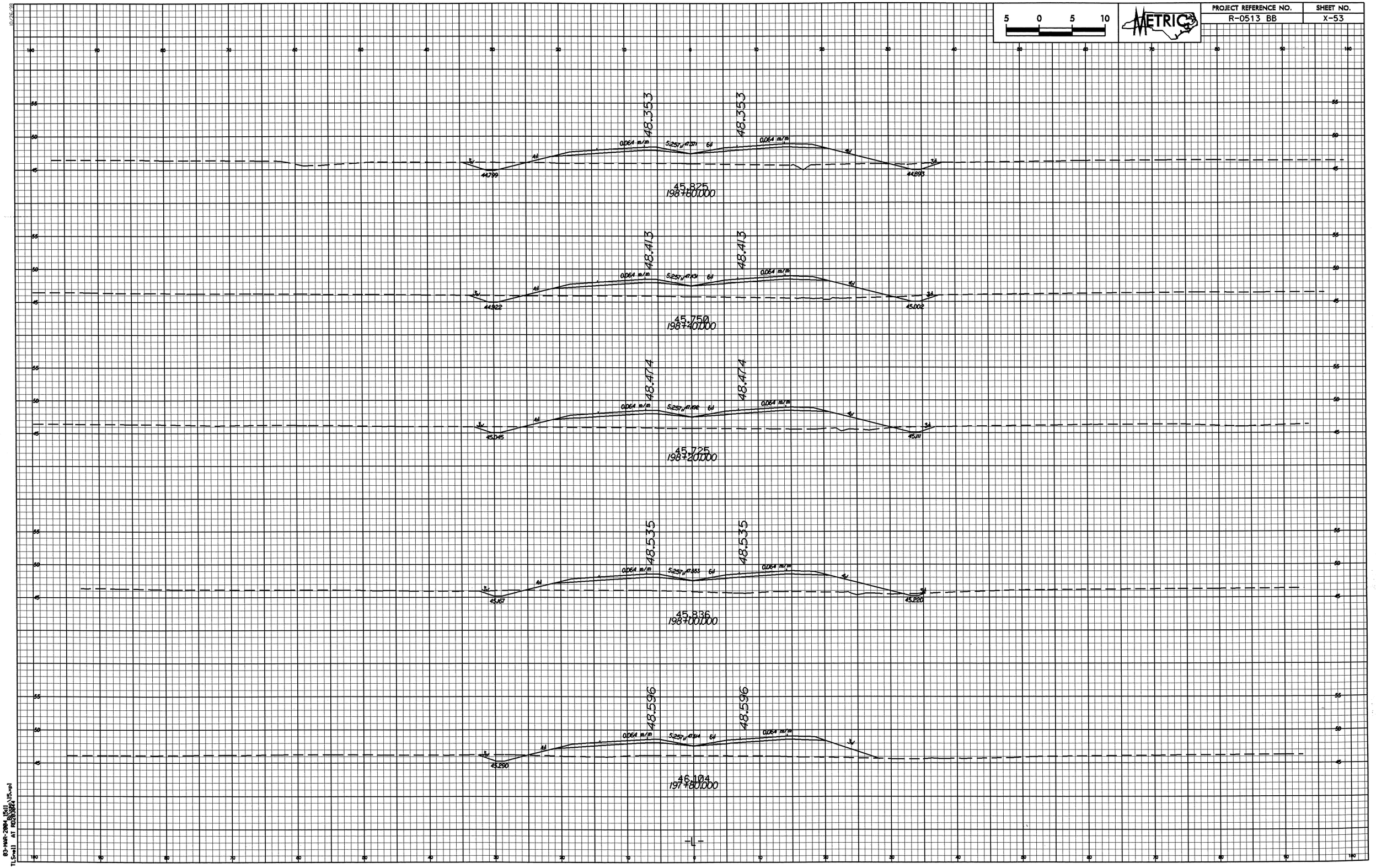


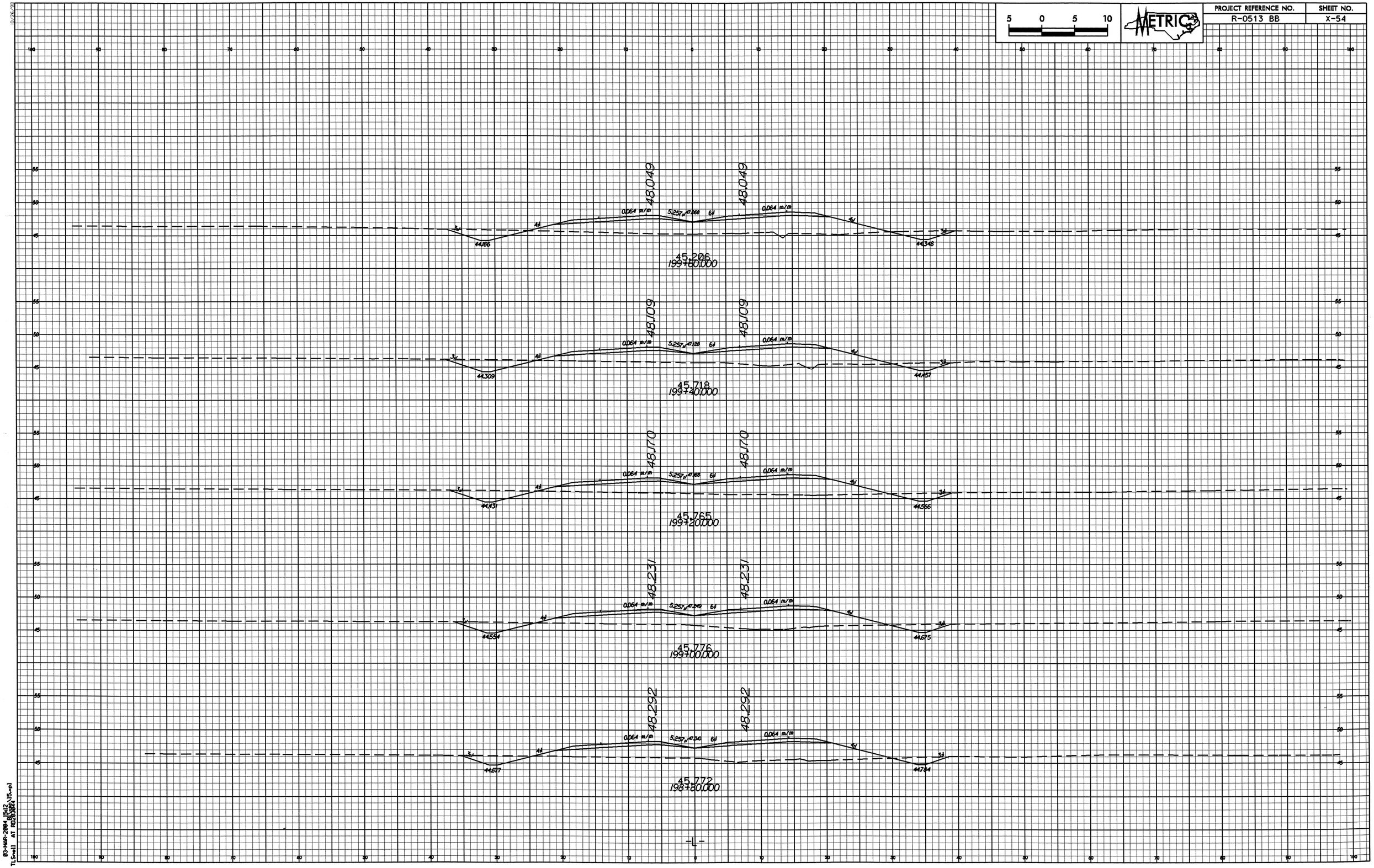
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-51
48.960
48.960
0.064 m/m
0.064 m/m
46.026
46.329
196+60.000
49.021
49.021
0.064 m/m
0.064 m/m
46.148
46.565
196+40.000
49.082
49.082
0.057 m/m
0.057 m/m
46.271
46.532
196+20.000
49.142
49.142
0.043 m/m
0.043 m/m
46.490
196+00.000
49.203
49.203
0.029 m/m
0.029 m/m
46.361
195+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-52
48.656
48.656
0.064 m/m
5.257
47.474
6:1
0.064 m/m
3:1
4:1
3:1
45.412
46.250
197+60.000
48.717
48.717
0.064 m/m
5.257
47.735
6:1
0.064 m/m
3.076:1
3:1
4:1
45.535
46.225
197+40.000
48.778
48.778
0.064 m/m
5.257
47.796
6:1
0.064 m/m
3.059:1
3:1
4:1
45.658
46.274
197+20.000
48.839
48.839
0.064 m/m
5.257
47.857
6:1
0.064 m/m
3:1
4:1
3:1
45.780
46.264
197+00.000
48.899
48.899
0.064 m/m
5.257
47.917
6:1
0.064 m/m
3.013:1
3:1
4:1
45.903
46.356
196+80.000
-L-

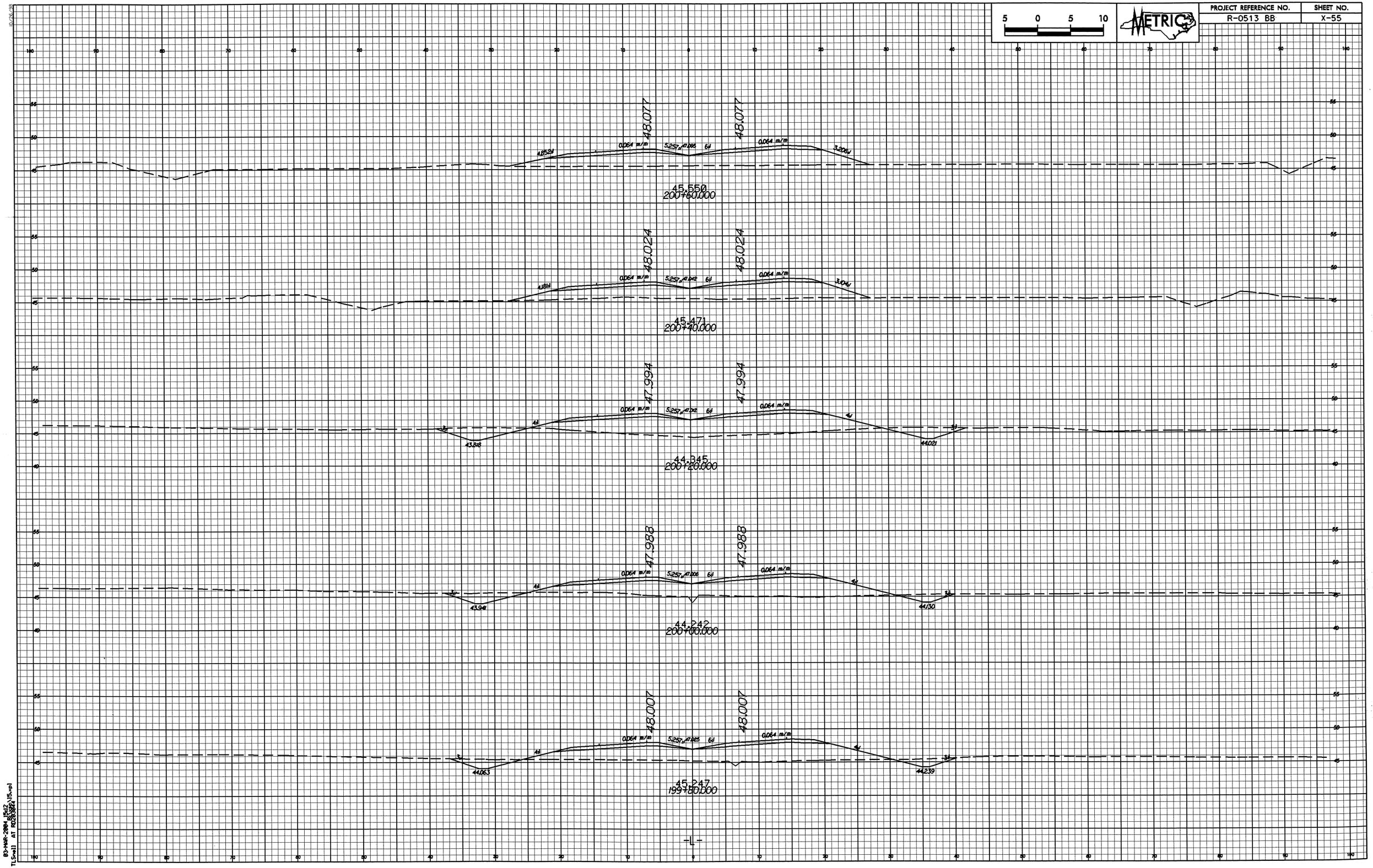
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-53

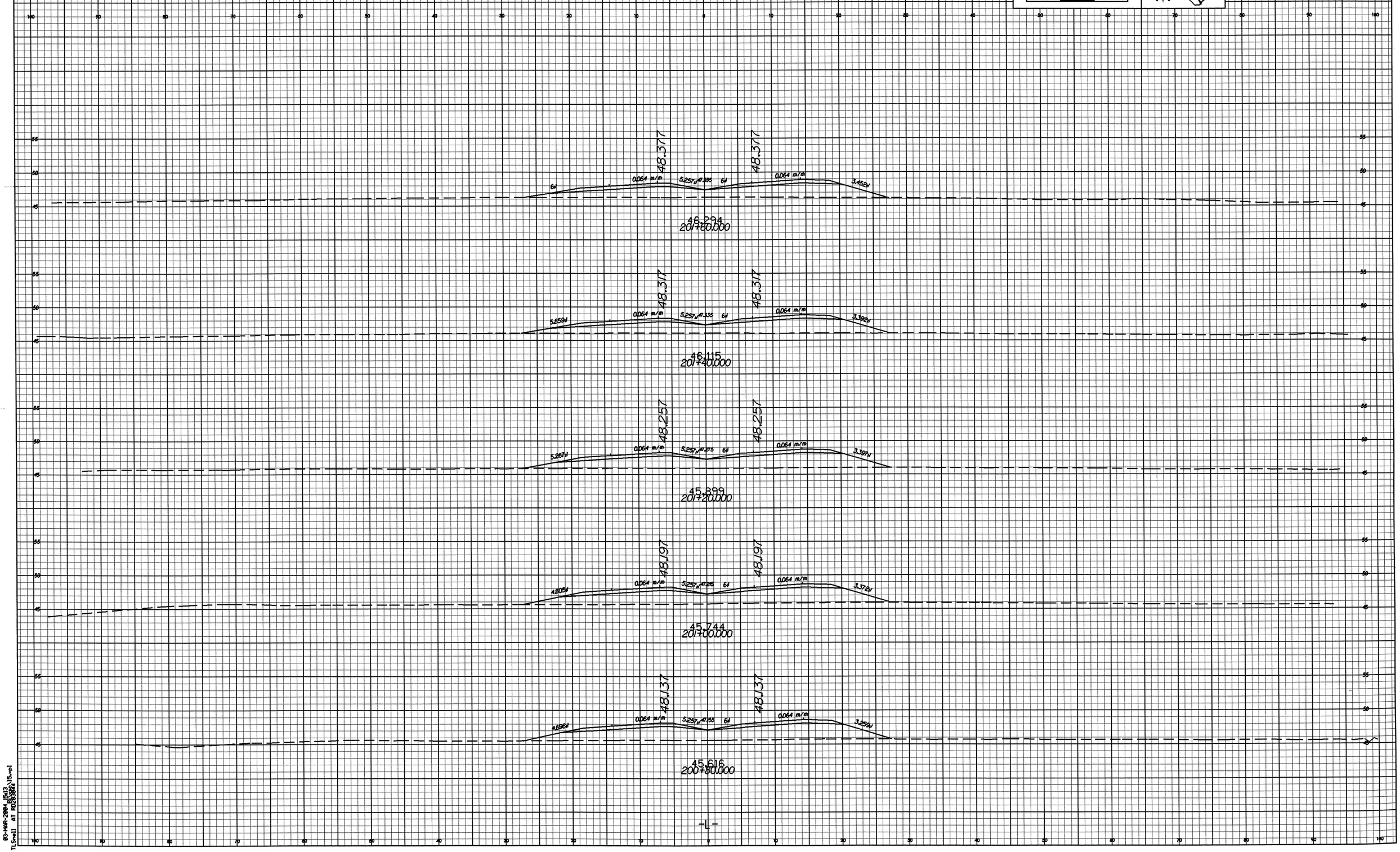




5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-54
48.049
48.049
0.064 m/m
5.257 m/ 47.068
6:1
0.064 m/m
3:1
4:1
4:1
3:1
44.186
44.348
45.206
199+60.000
48.109
48.109
0.064 m/m
5.257 m/ 47.128
6:1
0.064 m/m
3:1
4:1
4:1
3:1
44.309
44.457
45.718
199+40.000
48.170
48.170
0.064 m/m
5.257 m/ 47.188
6:1
0.064 m/m
3:1
4:1
4:1
3:1
44.431
44.566
45.765
199+20.000
48.231
48.231
0.064 m/m
5.257 m/ 47.249
6:1
0.064 m/m
3:1
4:1
4:1
3:1
44.554
44.675
45.776
199+00.000
48.292
48.292
0.064 m/m
5.257 m/ 47.310
6:1
0.064 m/m
3:1
4:1
4:1
3:1
44.677
44.784
45.772
198+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-55



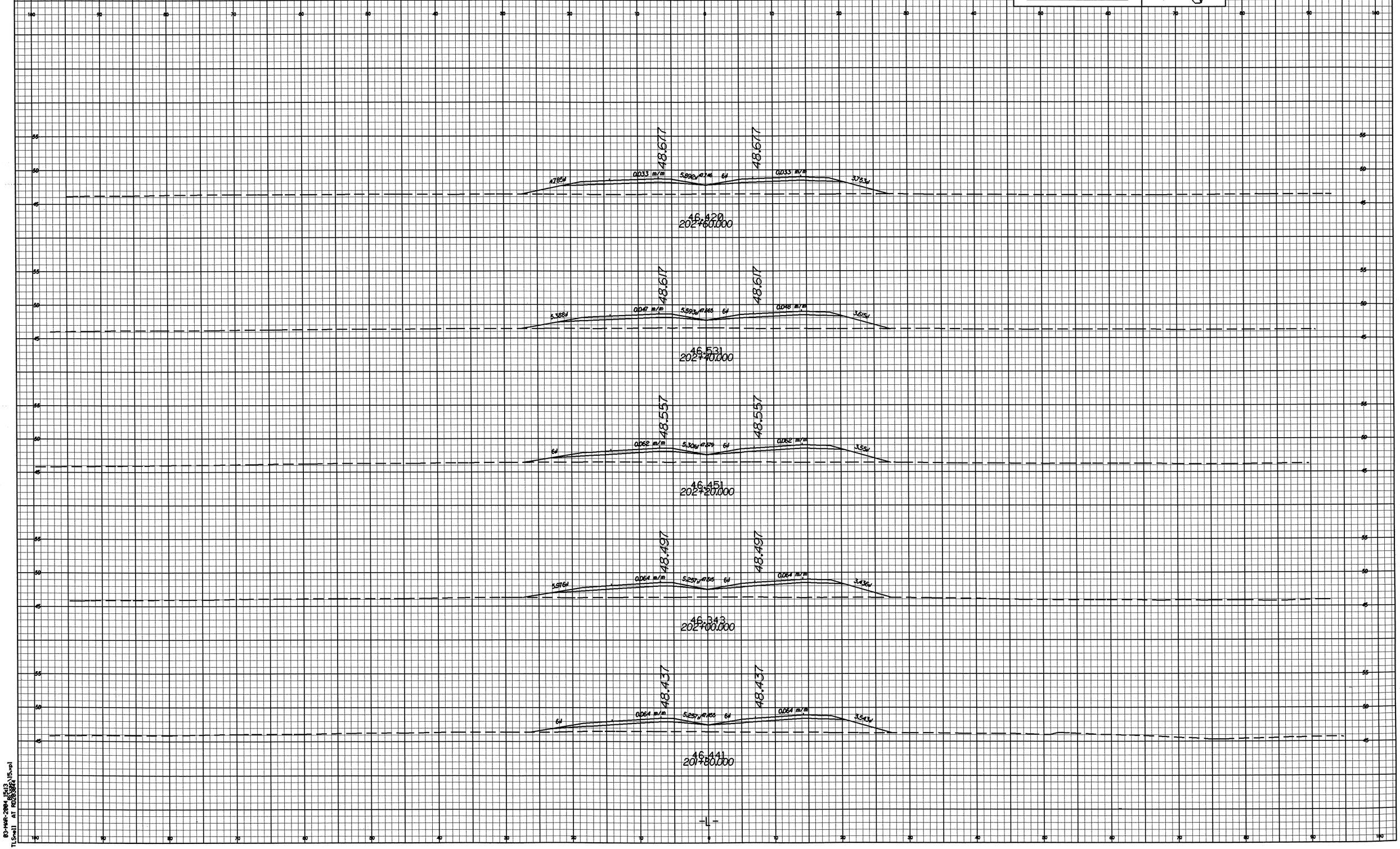


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-56
48.377
48.377
0.064 m/m
0.064 m/m
46.294
201+60.000
48.317
48.317
0.064 m/m
0.064 m/m
46.115
201+40.000
48.257
48.257
0.064 m/m
0.064 m/m
45.899
201+20.000
48.197
48.197
0.064 m/m
0.064 m/m
45.744
201+00.000
48.137
48.137
0.064 m/m
0.064 m/m
45.616
200+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-57

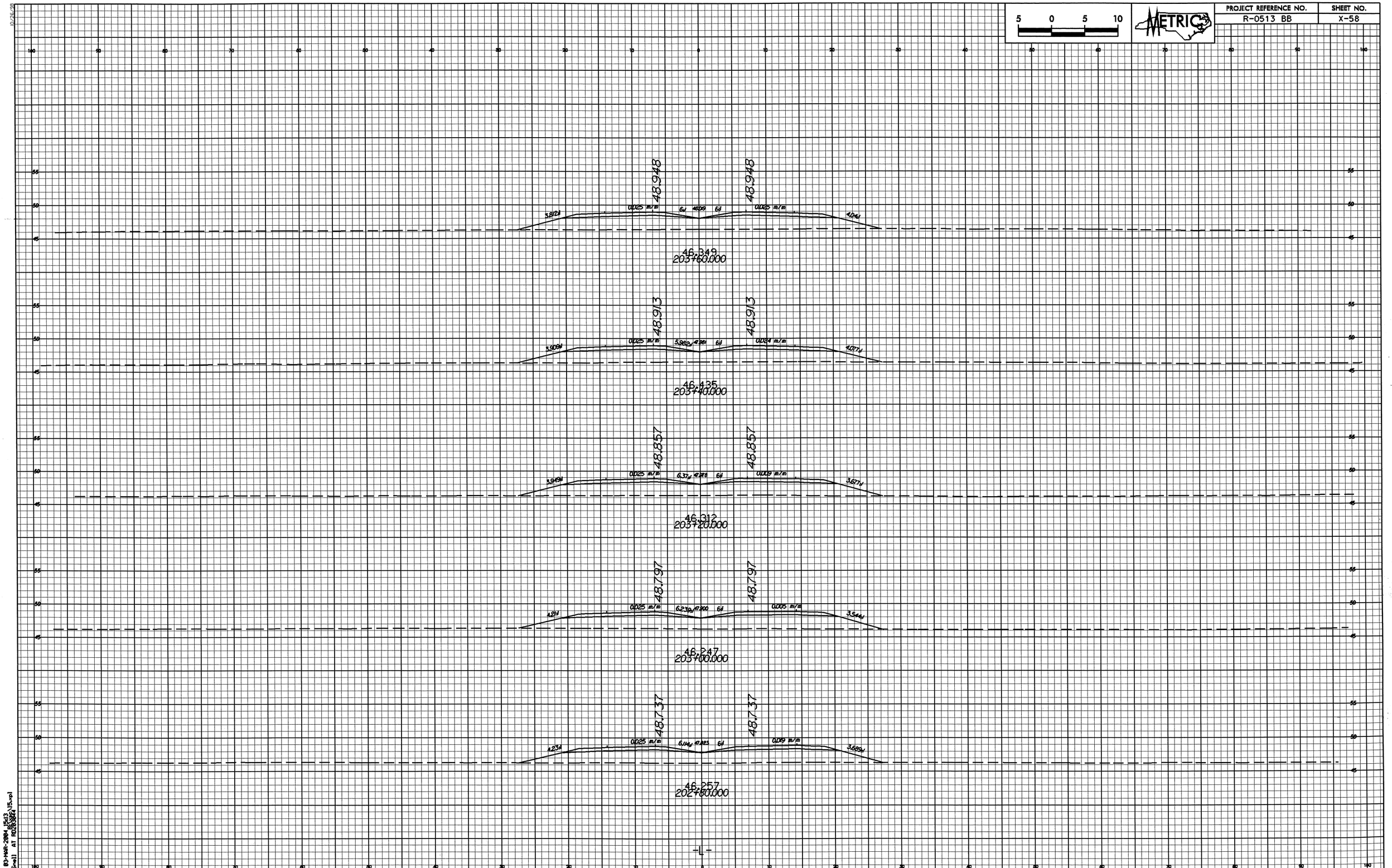
5 0 5 10

METRIC



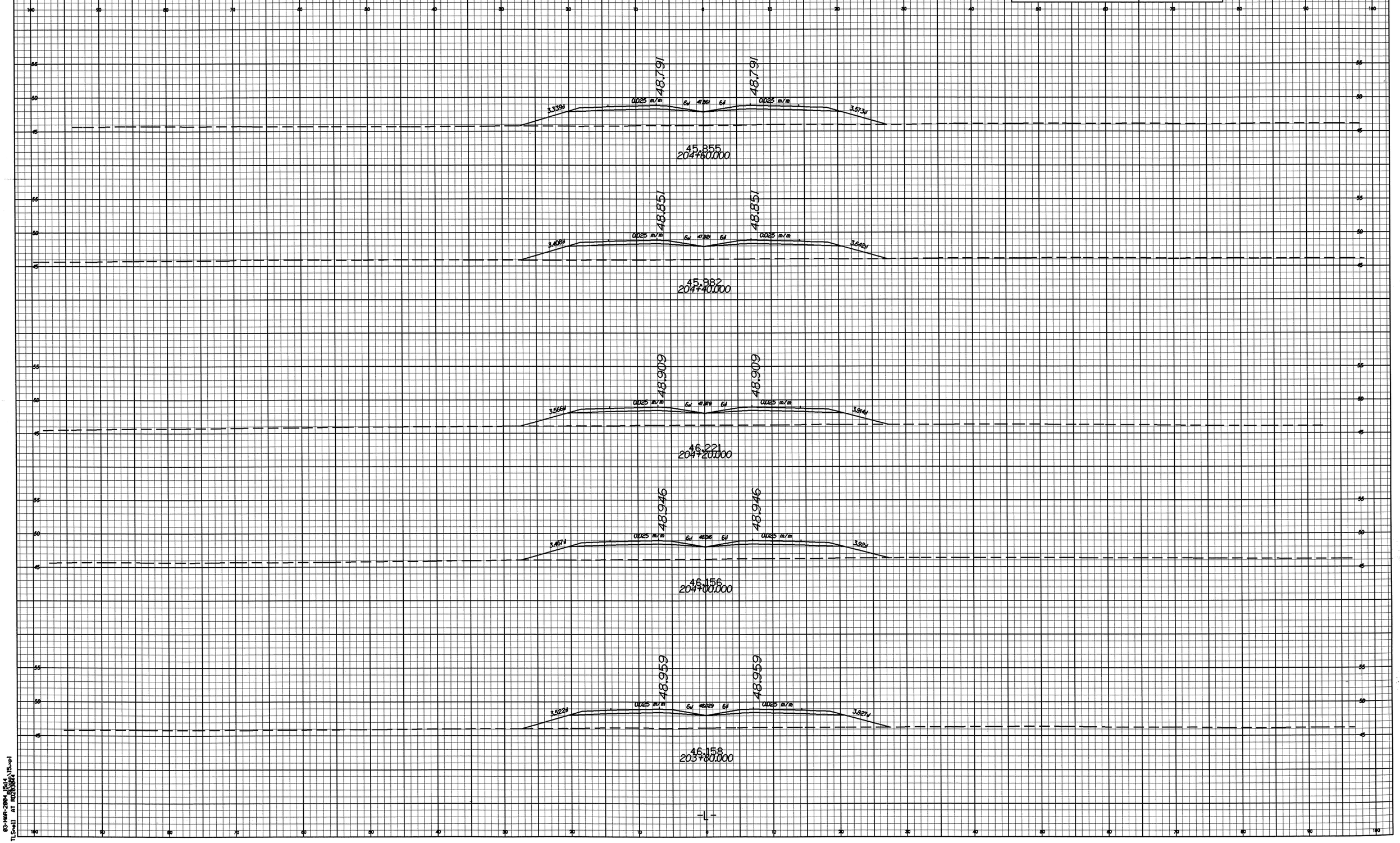
10/26/98

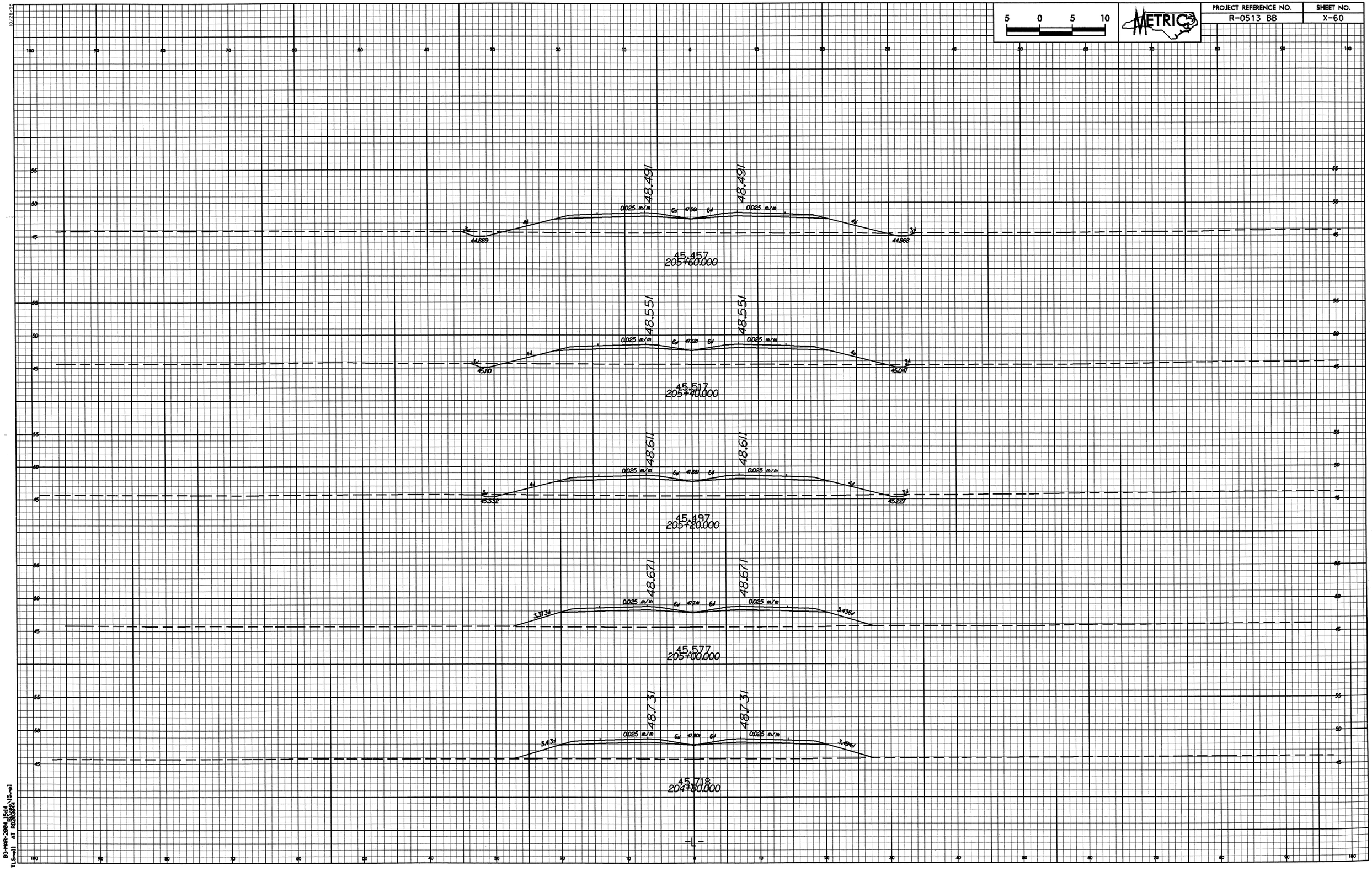
B3-14WR-2984 R-0513 BB
T:\Survey\ AT R0203844 \15-pl



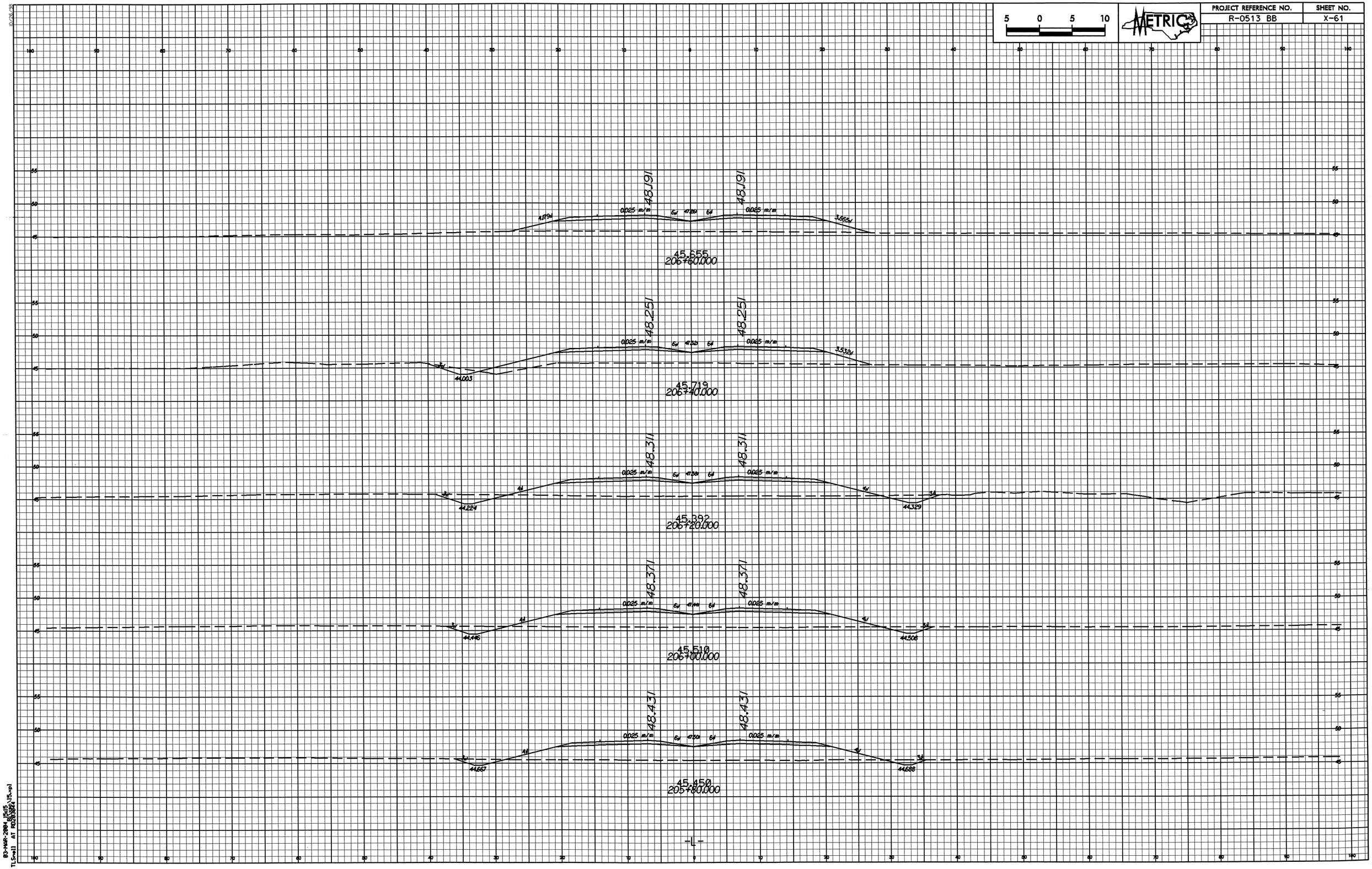
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-58
48.948
48.948
0.025 m/m
0.025 m/m
46.349
203+60.000
48.913
48.913
0.025 m/m
0.024 m/m
46.435
203+40.000
48.857
48.857
0.025 m/m
0.009 m/m
46.312
203+20.000
48.797
48.797
0.025 m/m
0.005 m/m
46.247
203+00.000
48.737
48.737
0.025 m/m
0.019 m/m
46.257
202+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-59



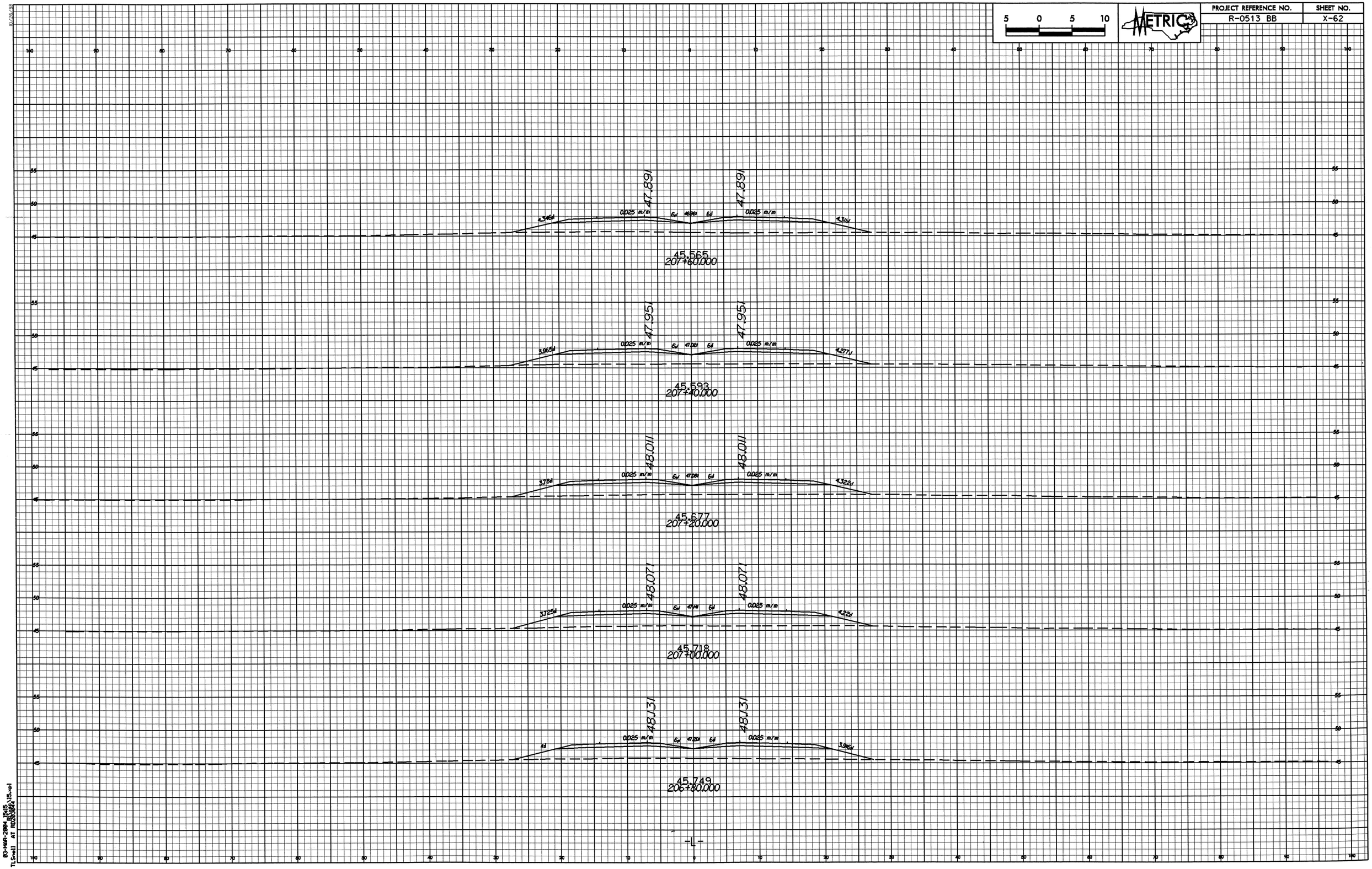


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-60
48.491
48.491
0.025 m/m
0.025 m/m
44.889
44.868
45.457
205+60.000
48.551
48.551
0.025 m/m
0.025 m/m
45.110
45.047
45.517
205+40.000
48.611
48.611
0.025 m/m
0.025 m/m
45.332
45.227
45.497
205+20.000
48.671
48.671
0.025 m/m
0.025 m/m
45.577
205+00.000
48.731
48.731
0.025 m/m
0.025 m/m
45.718
204+80.000
-L-

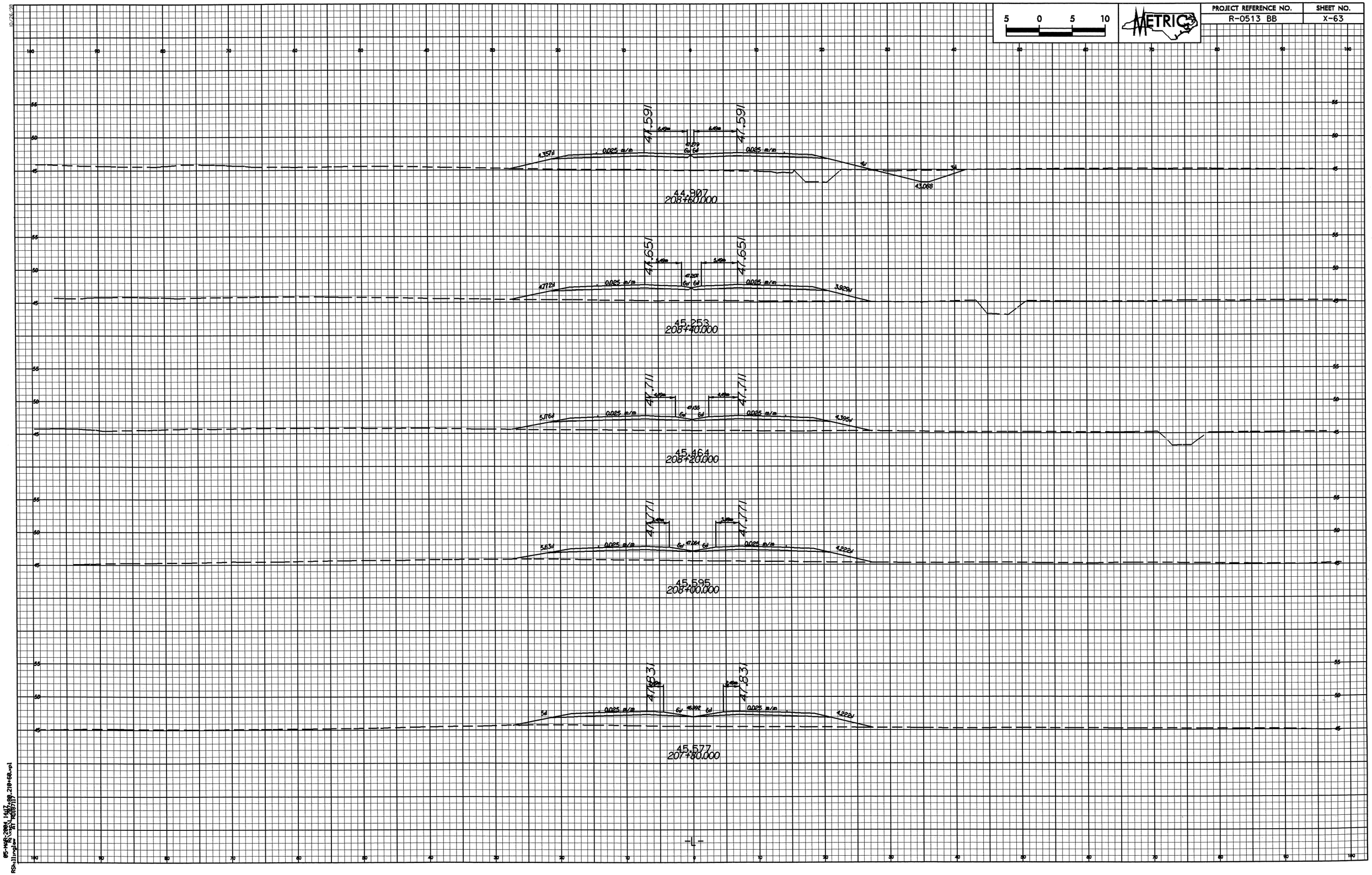


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-61
48.191
48.191
0.025 m/m
0.025 m/m
45.655
206+60.000
48.251
48.251
0.025 m/m
0.025 m/m
44.003
45.719
206+40.000
48.311
48.311
0.025 m/m
0.025 m/m
44.224
44.329
45.392
206+20.000
48.371
48.371
0.025 m/m
0.025 m/m
44.446
44.508
45.510
206+00.000
48.431
48.431
0.025 m/m
0.025 m/m
44.667
44.688
45.450
205+80.000
-L-

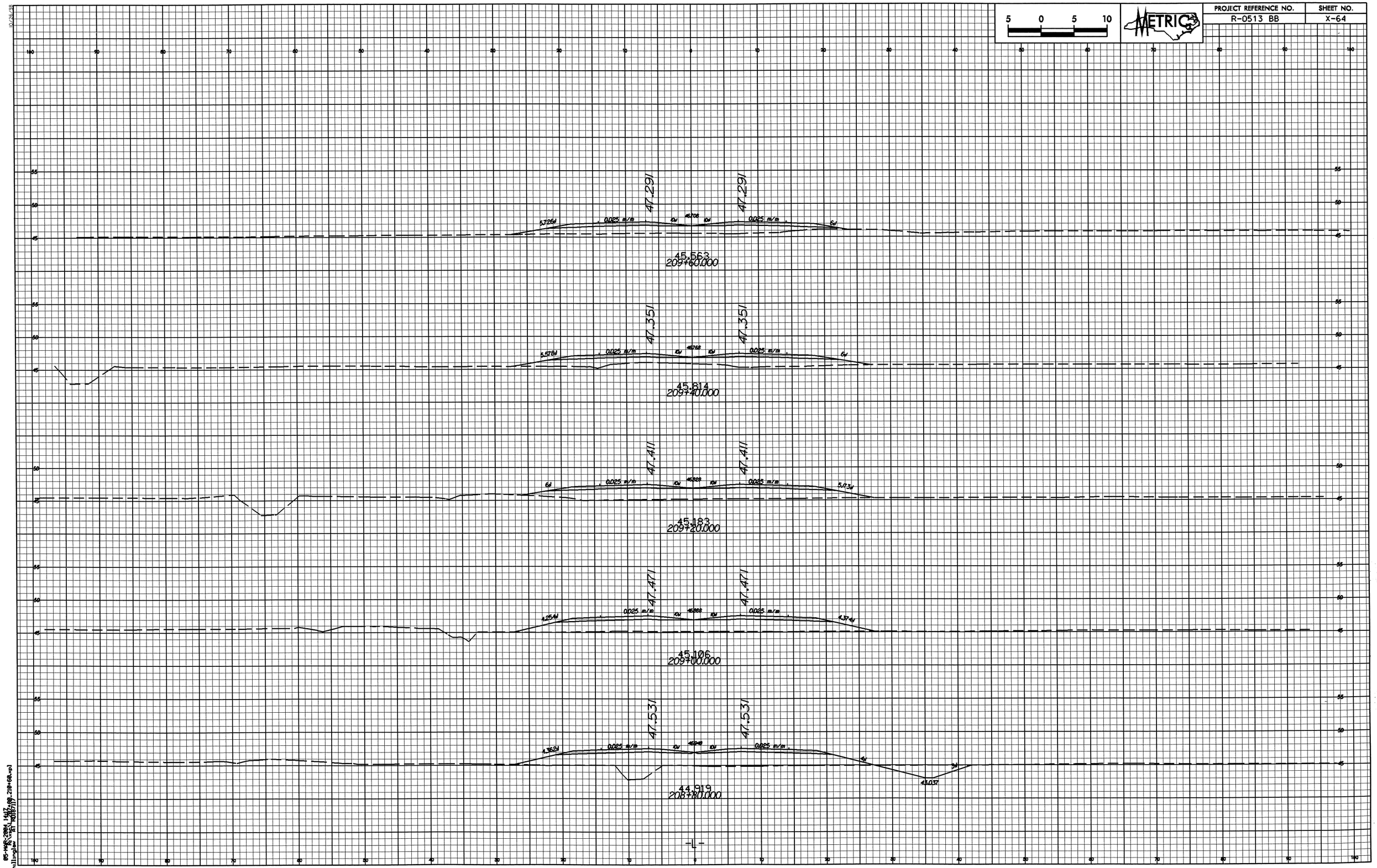
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-62



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-63

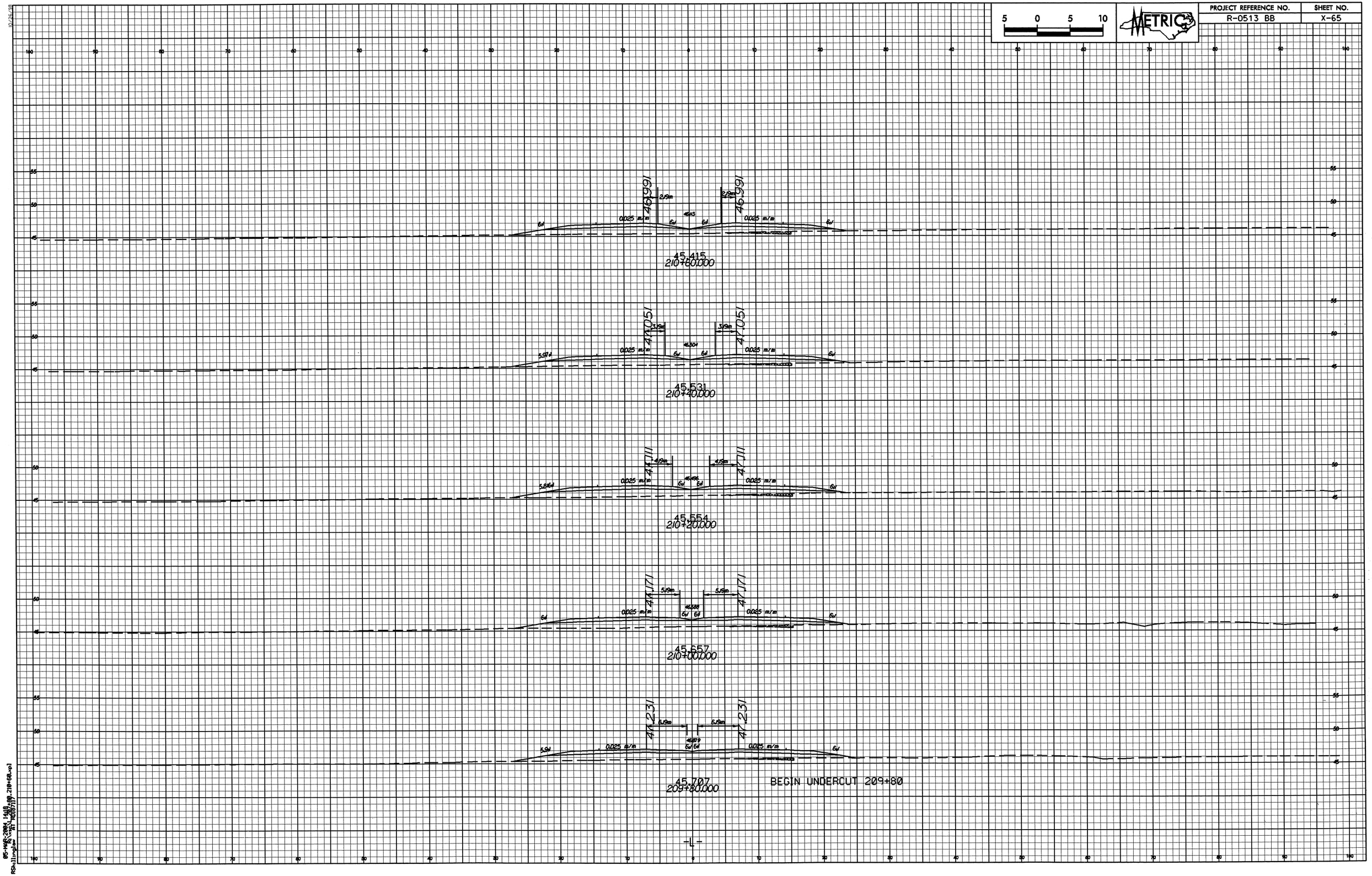


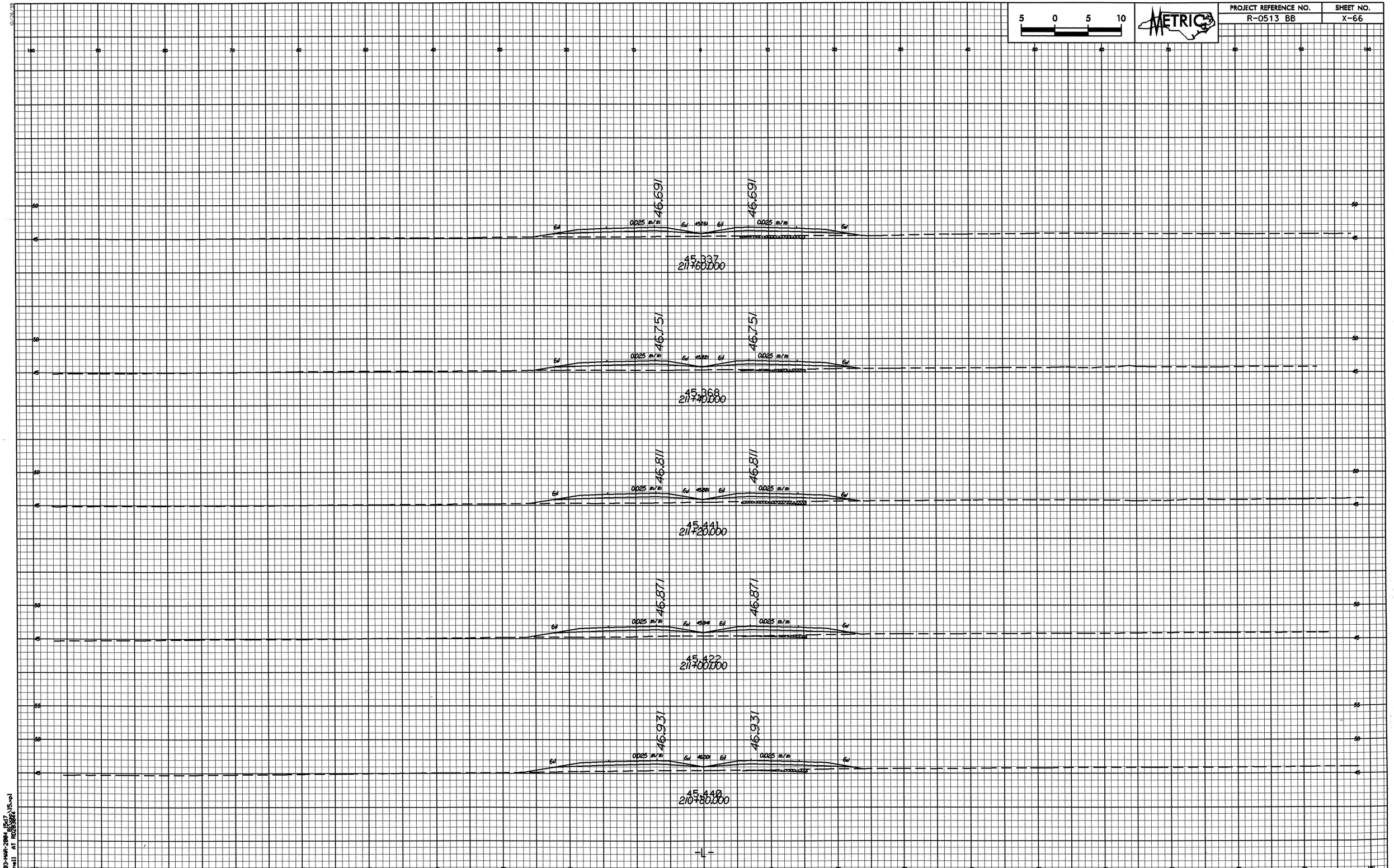
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-64



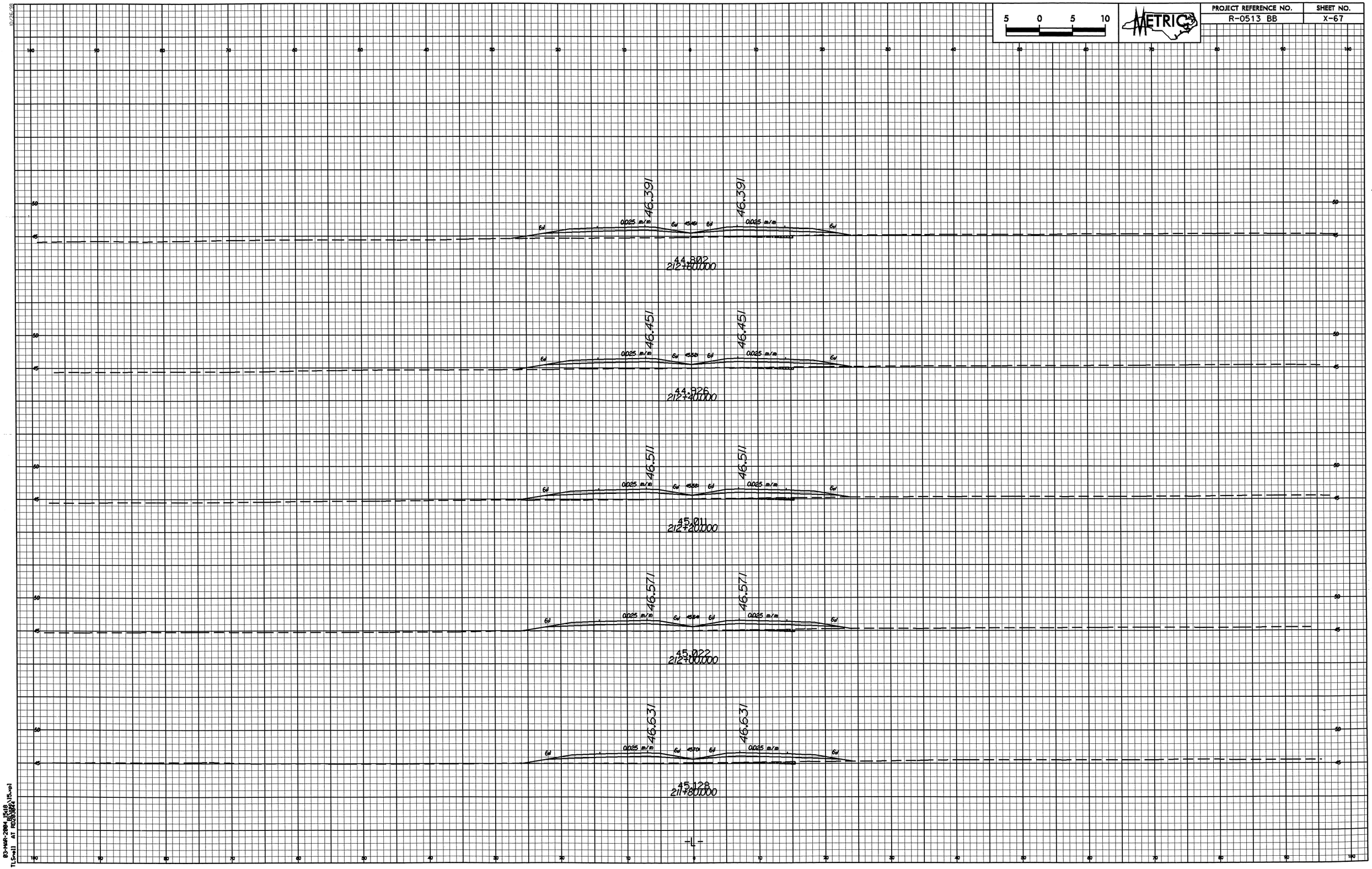
05-MAR-2004 14:17
R:\...\...\207+80.210+60.xpl
RShillingLaw AT R0187117

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-65

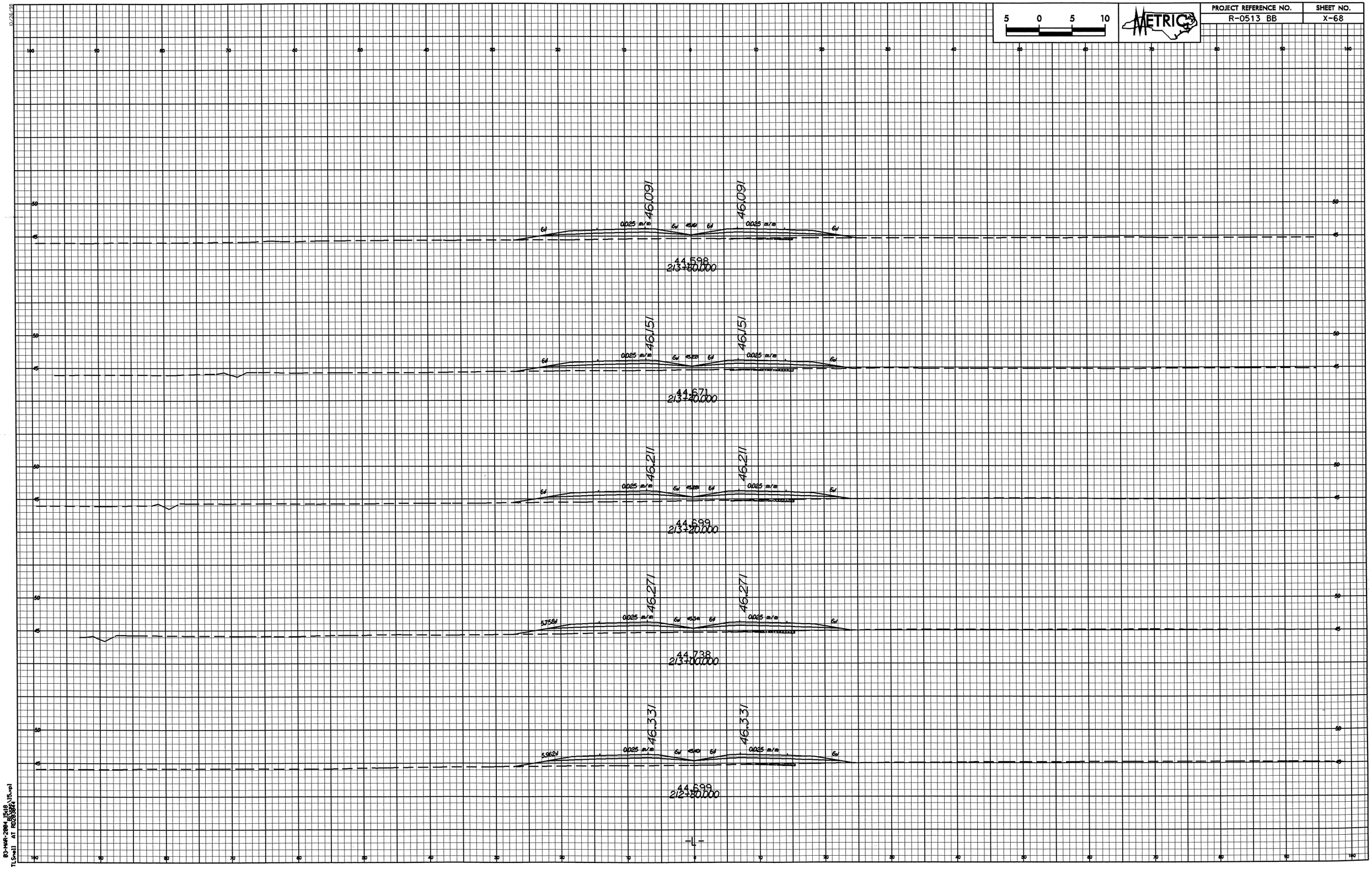




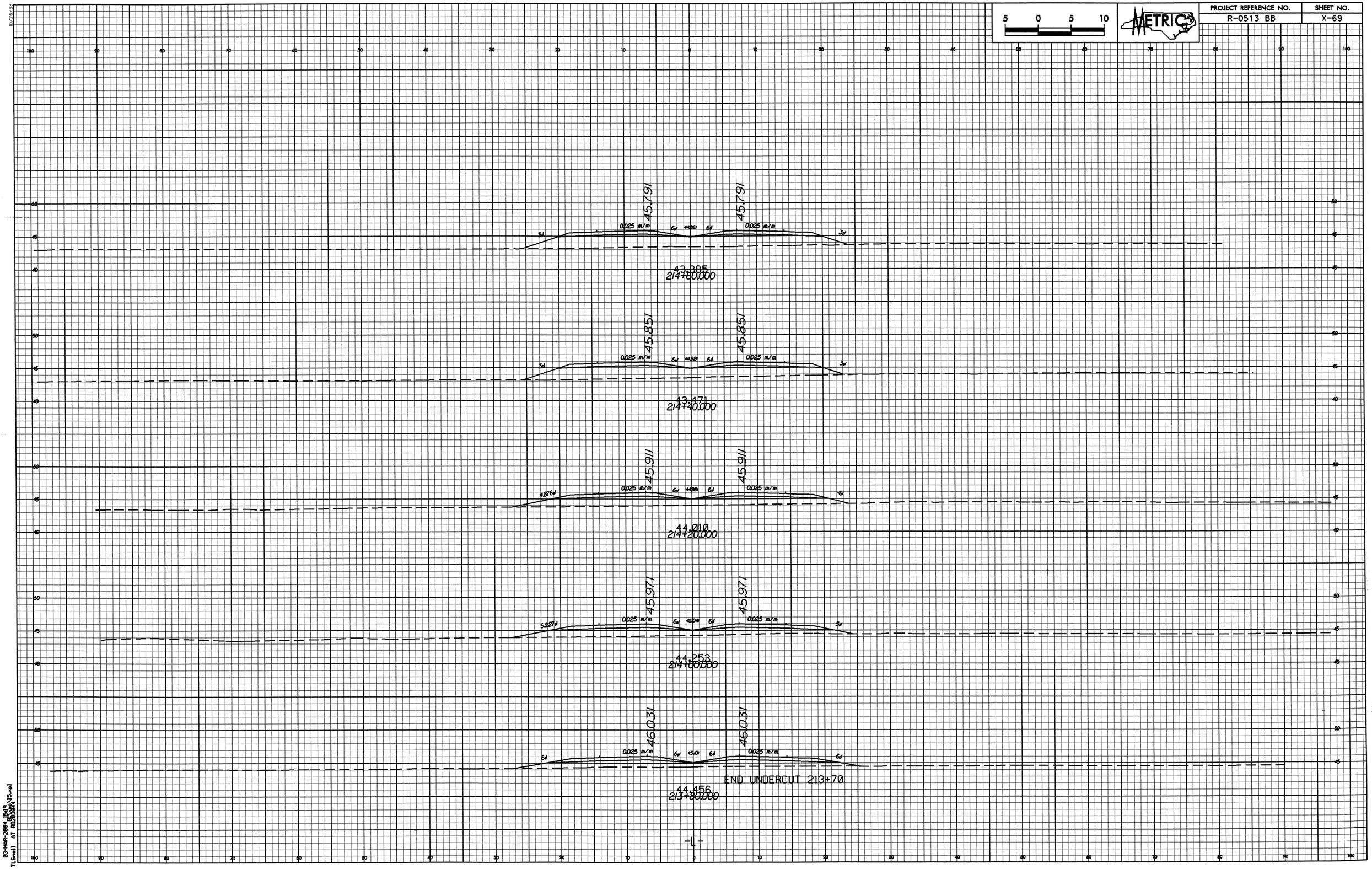
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-66
46.691
46.691
0.025 m/m
45.337
211+60.000
46.751
46.751
0.025 m/m
45.368
211+40.000
46.811
46.811
0.025 m/m
45.441
211+20.000
46.871
46.871
0.025 m/m
45.422
211+00.000
46.931
46.931
0.025 m/m
45.440
210+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-67
46.391
46.391
0.025 m/m
44.802
212+60.000
46.451
46.451
44.926
212+40.000
46.511
46.511
45.011
212+20.000
46.571
46.571
45.022
212+00.000
46.631
46.631
45.128
211+80.000
-L-

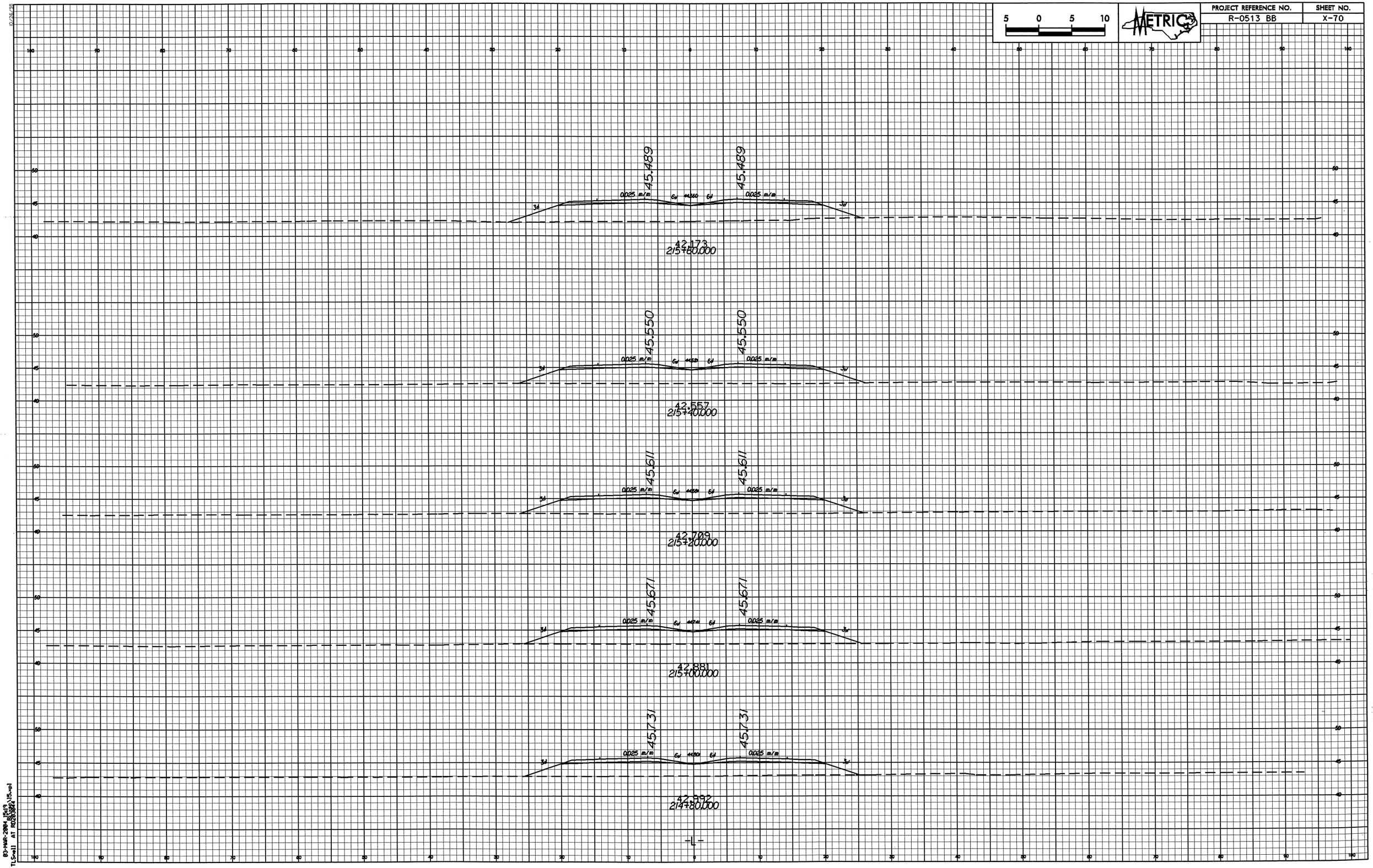


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-68
46.091
46.091
0.025 m/m
0.025 m/m
44.598
213+60.000
46.151
46.151
0.025 m/m
0.025 m/m
44.671
213+40.000
46.211
46.211
0.025 m/m
0.025 m/m
44.699
213+20.000
46.271
46.271
0.025 m/m
0.025 m/m
44.738
213+00.000
46.331
46.331
0.025 m/m
0.025 m/m
44.699
212+80.000
-L-



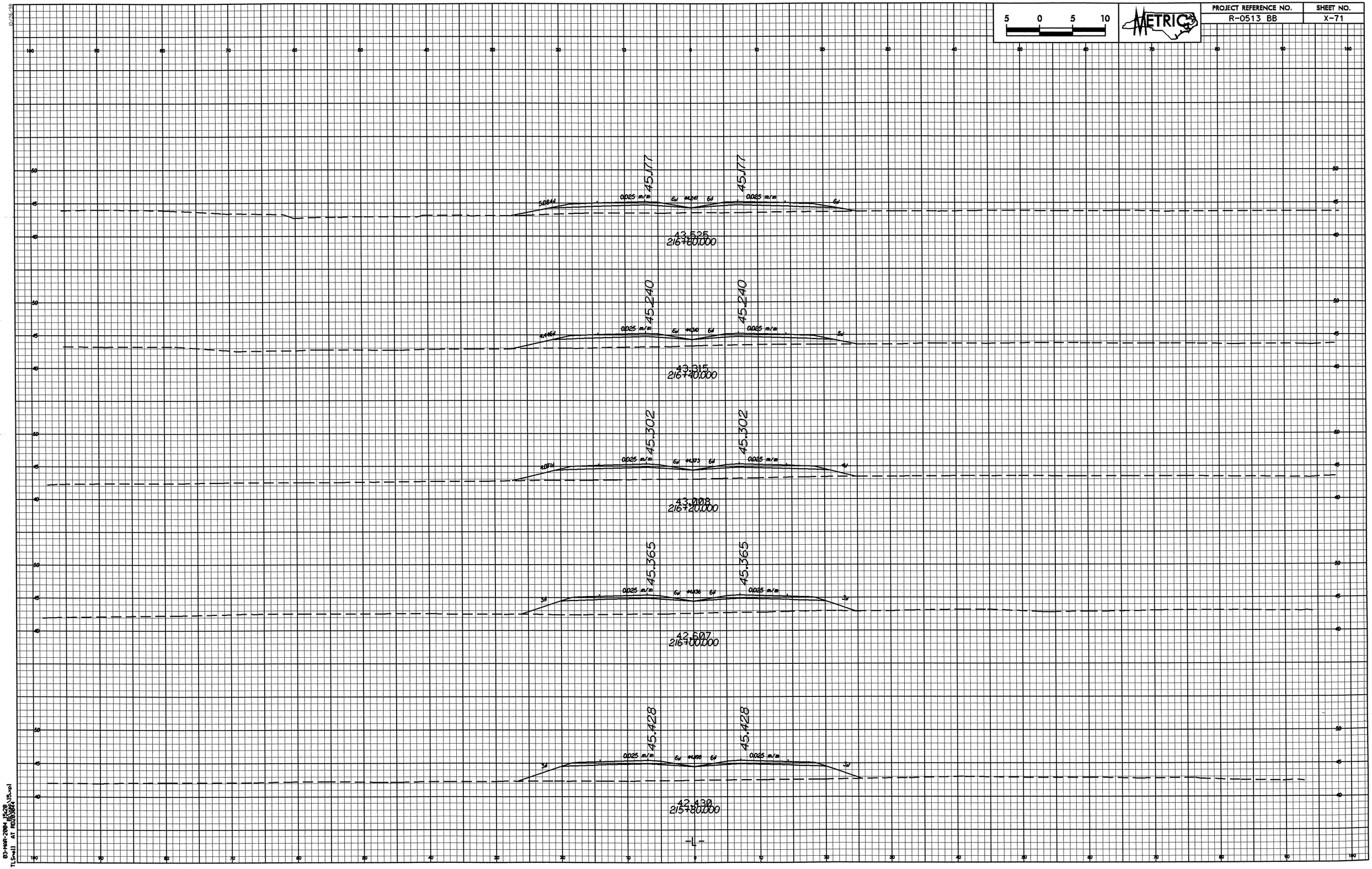
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-69
45.791
45.791
0.025 m/m
0.025 m/m
43.385
214+60.000
45.851
45.851
0.025 m/m
0.025 m/m
43.471
214+40.000
45.911
45.911
0.025 m/m
0.025 m/m
44.010
214+20.000
45.971
45.971
0.025 m/m
0.025 m/m
44.253
214+00.000
46.031
46.031
0.025 m/m
0.025 m/m
END UNDERCUT 213+70
44.456
213+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-70

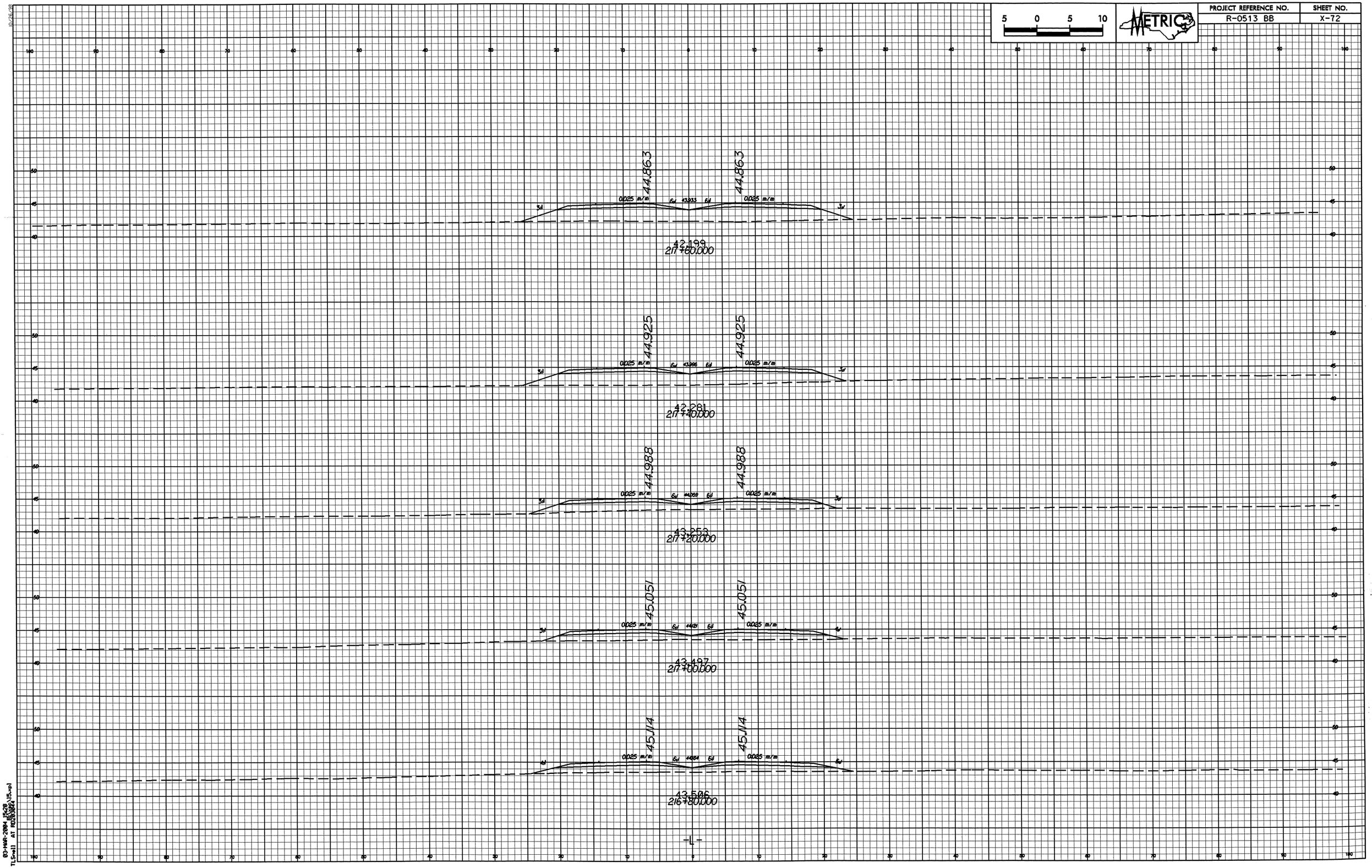


10/26/98
03-MAR-2004 15:19
TLSnell AT R0203844

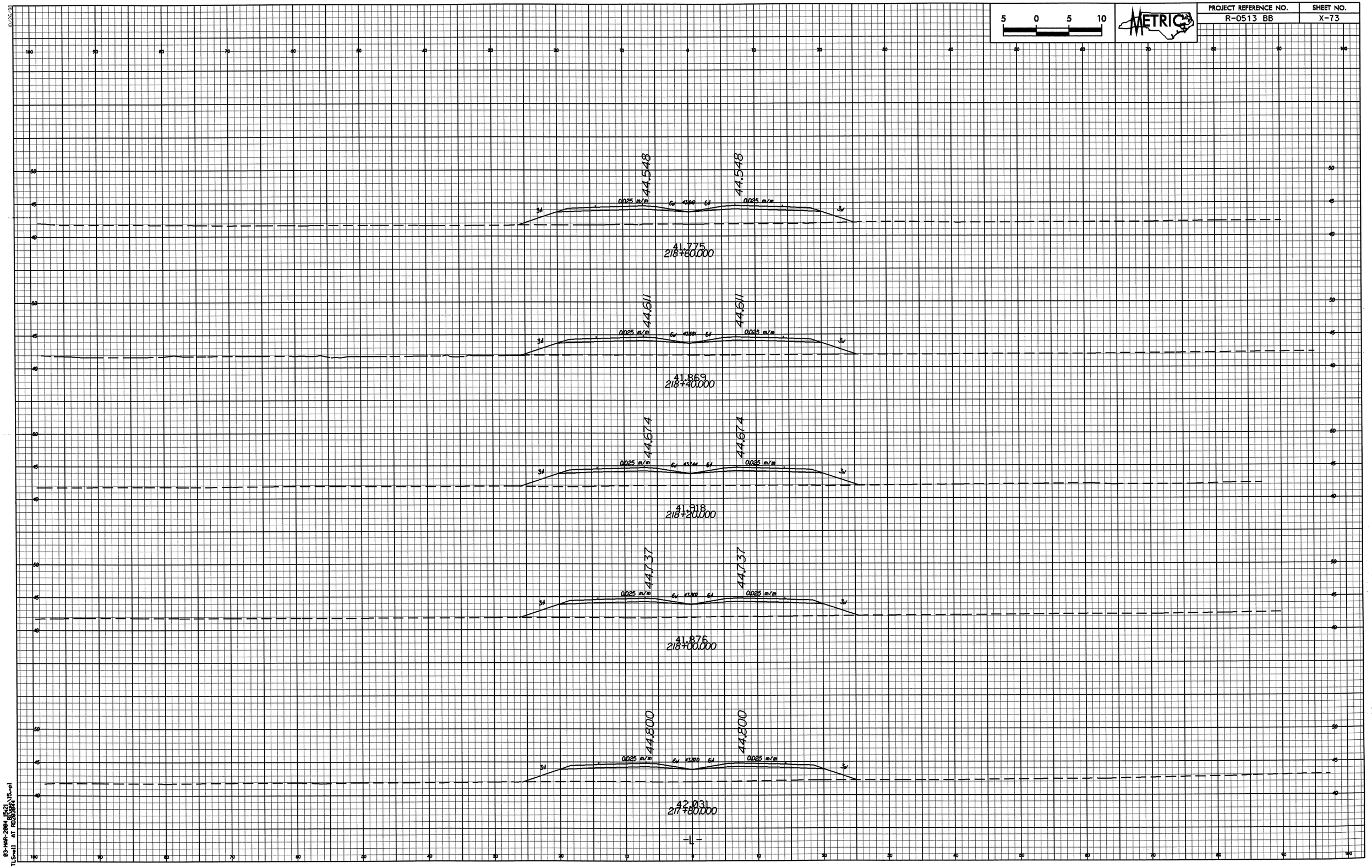
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-71



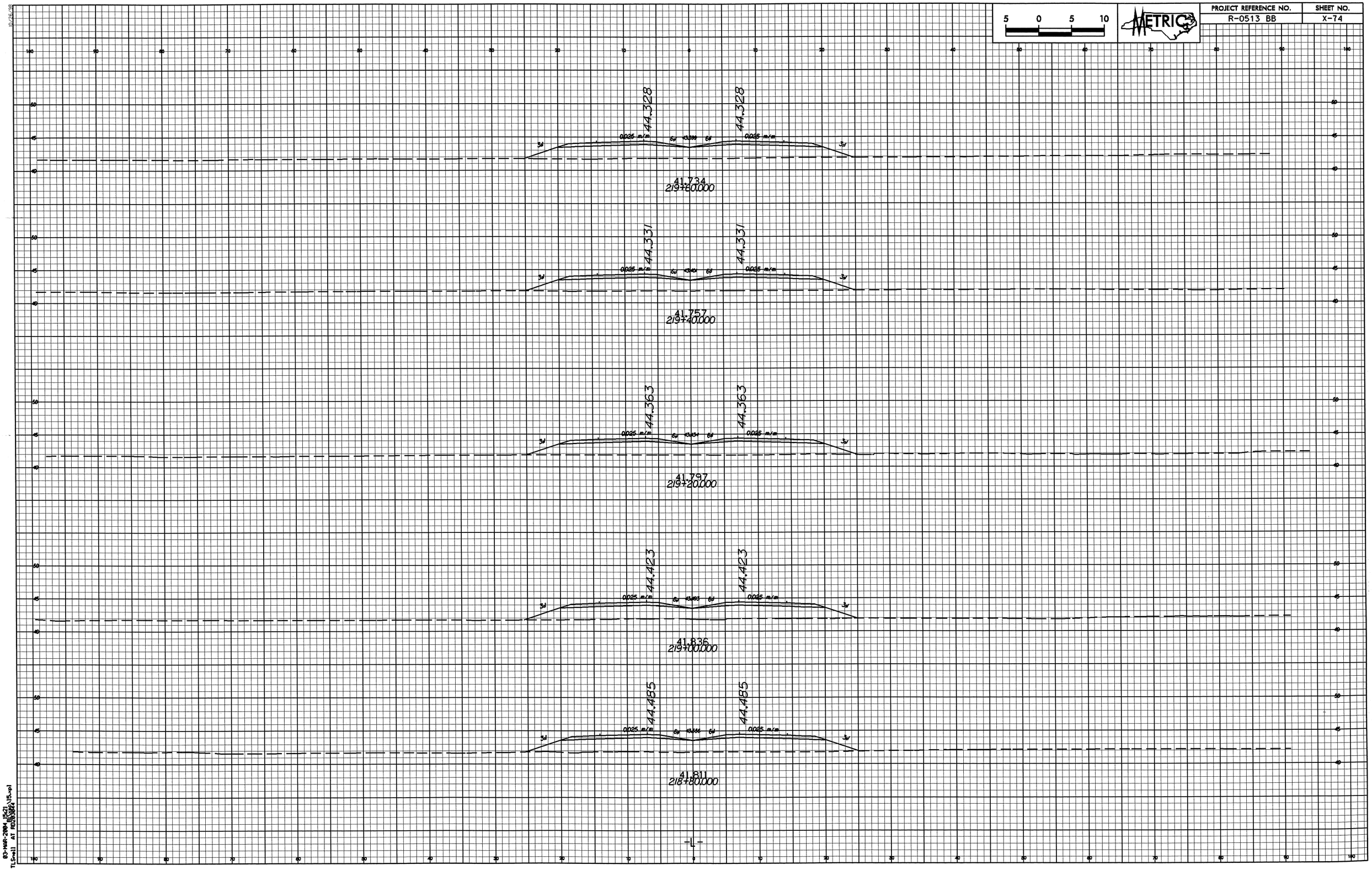
03-14-98-2094 15:28
TL5-w11 AT R0203094 (15-p)
10/26/98



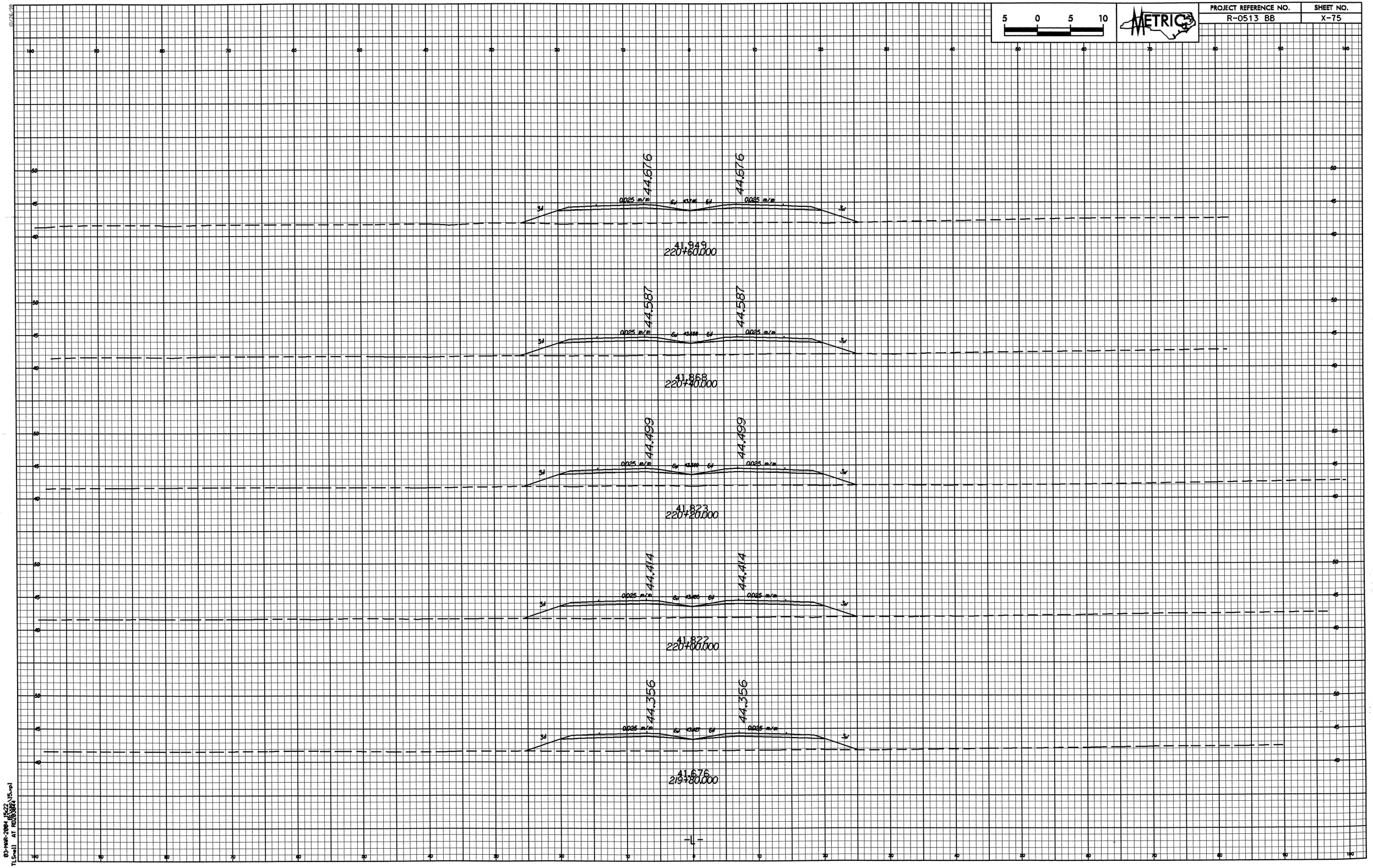
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-72
44.863
44.863
0.025 m/m
0.025 m/m
42.199
217+60.000
44.925
44.925
0.025 m/m
0.025 m/m
42.281
217+40.000
44.988
44.988
0.025 m/m
0.025 m/m
43.253
217+20.000
45.051
45.051
0.025 m/m
0.025 m/m
43.497
217+00.000
45.114
45.114
0.025 m/m
0.025 m/m
43.506
216+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-73
44.548
44.548
0.025 m/m
0.025 m/m
41.775
218+60.000
44.611
44.611
0.025 m/m
0.025 m/m
41.869
218+40.000
44.674
44.674
0.025 m/m
0.025 m/m
41.918
218+20.000
44.737
44.737
0.025 m/m
0.025 m/m
41.876
218+00.000
44.800
44.800
0.025 m/m
0.025 m/m
42.031
217+80.000
-L-

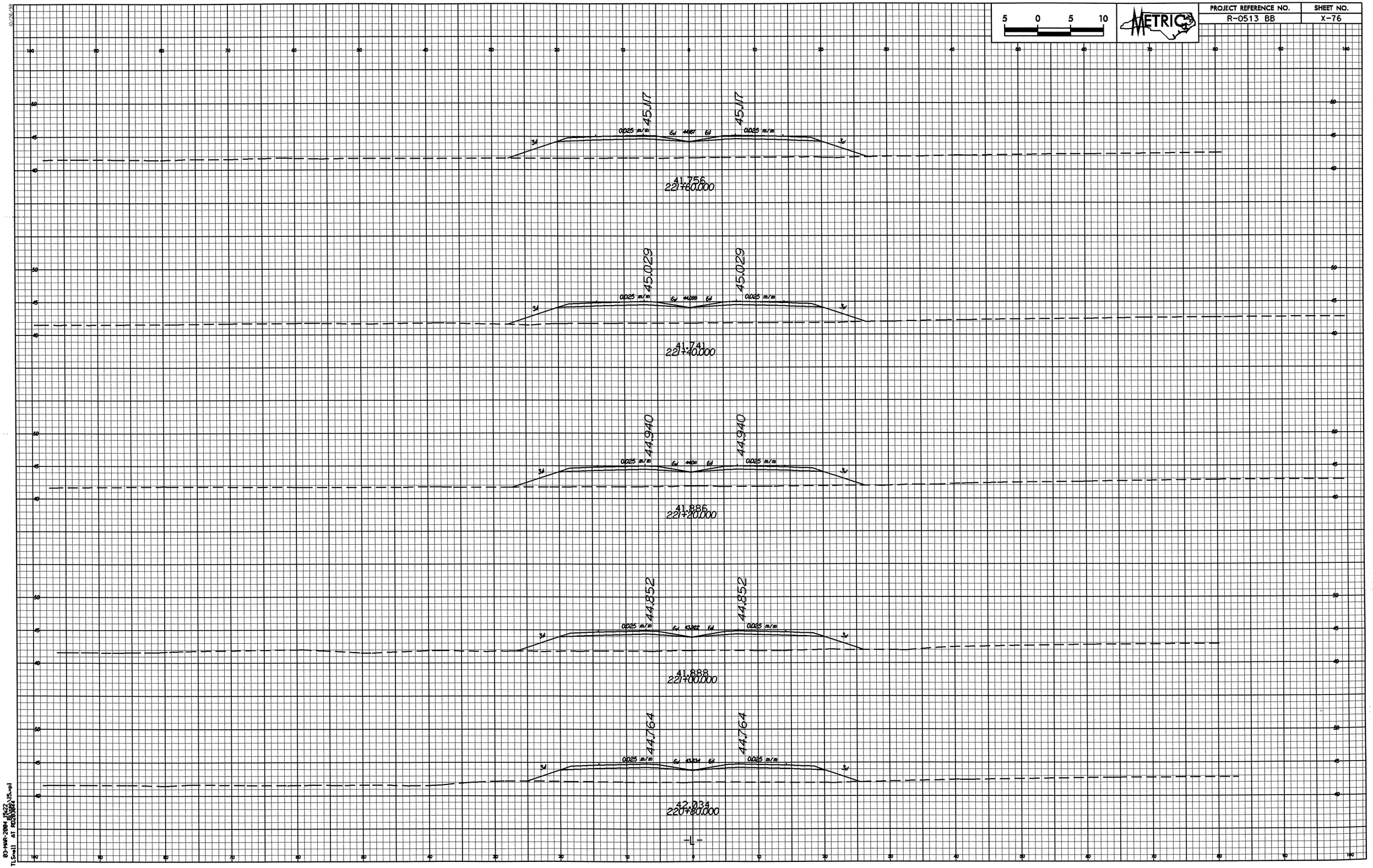


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-74
44.328
44.328
0.025 m/m
0.025 m/m
41.734
219+60.000
44.331
44.331
0.025 m/m
0.025 m/m
41.757
219+40.000
44.363
44.363
0.025 m/m
0.025 m/m
41.797
219+20.000
44.423
44.423
0.025 m/m
0.025 m/m
41.836
219+00.000
44.485
44.485
0.025 m/m
0.025 m/m
41.811
218+80.000
-L-

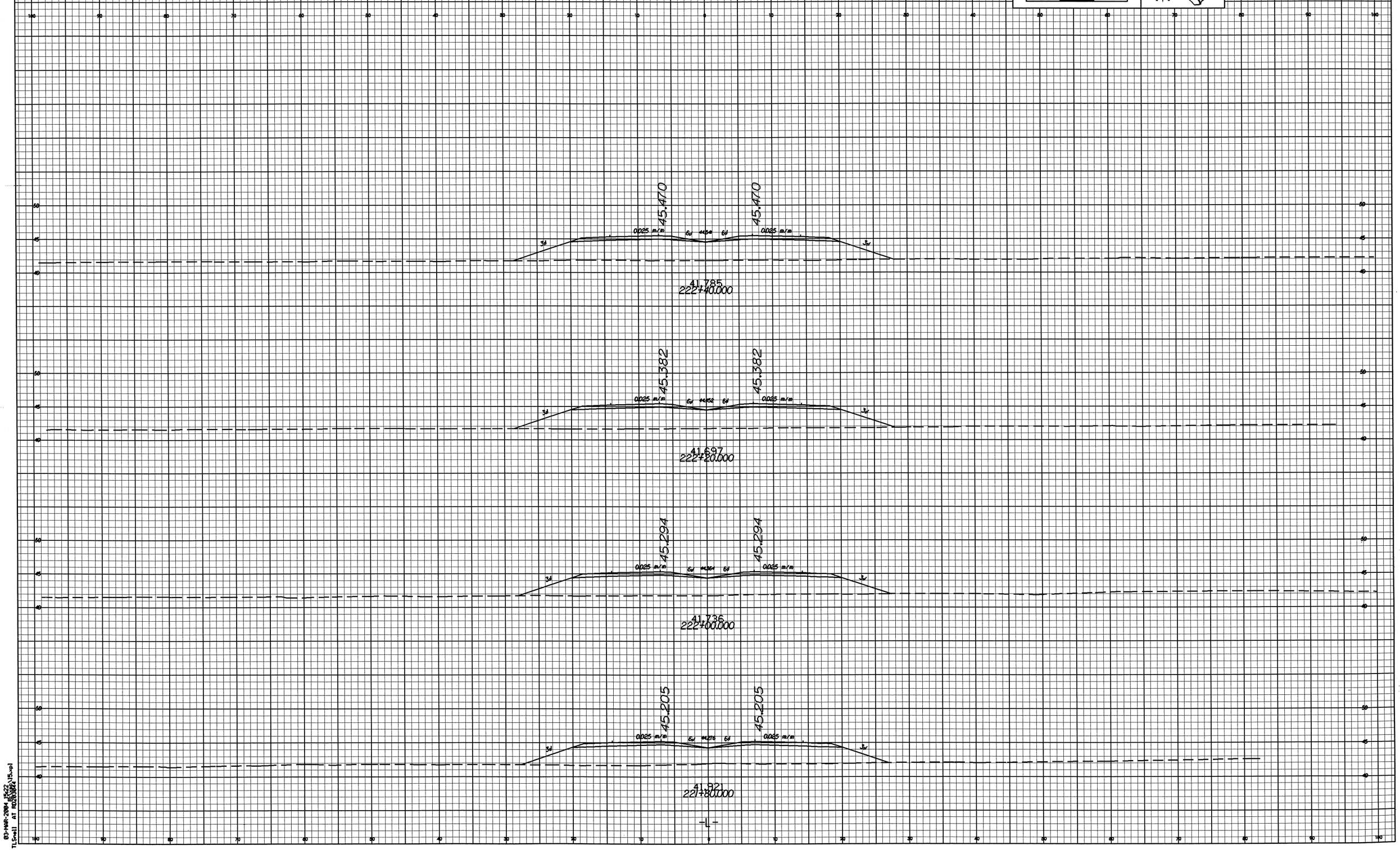


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-75
44.676
44.676
0.025 m/m
0.025 m/m
41.949
220+60.000
44.587
44.587
0.025 m/m
0.025 m/m
41.868
220+40.000
44.499
44.499
0.025 m/m
0.025 m/m
41.823
220+20.000
44.414
44.414
0.025 m/m
0.025 m/m
41.822
220+00.000
44.356
44.356
0.025 m/m
0.025 m/m
41.676
219+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-76

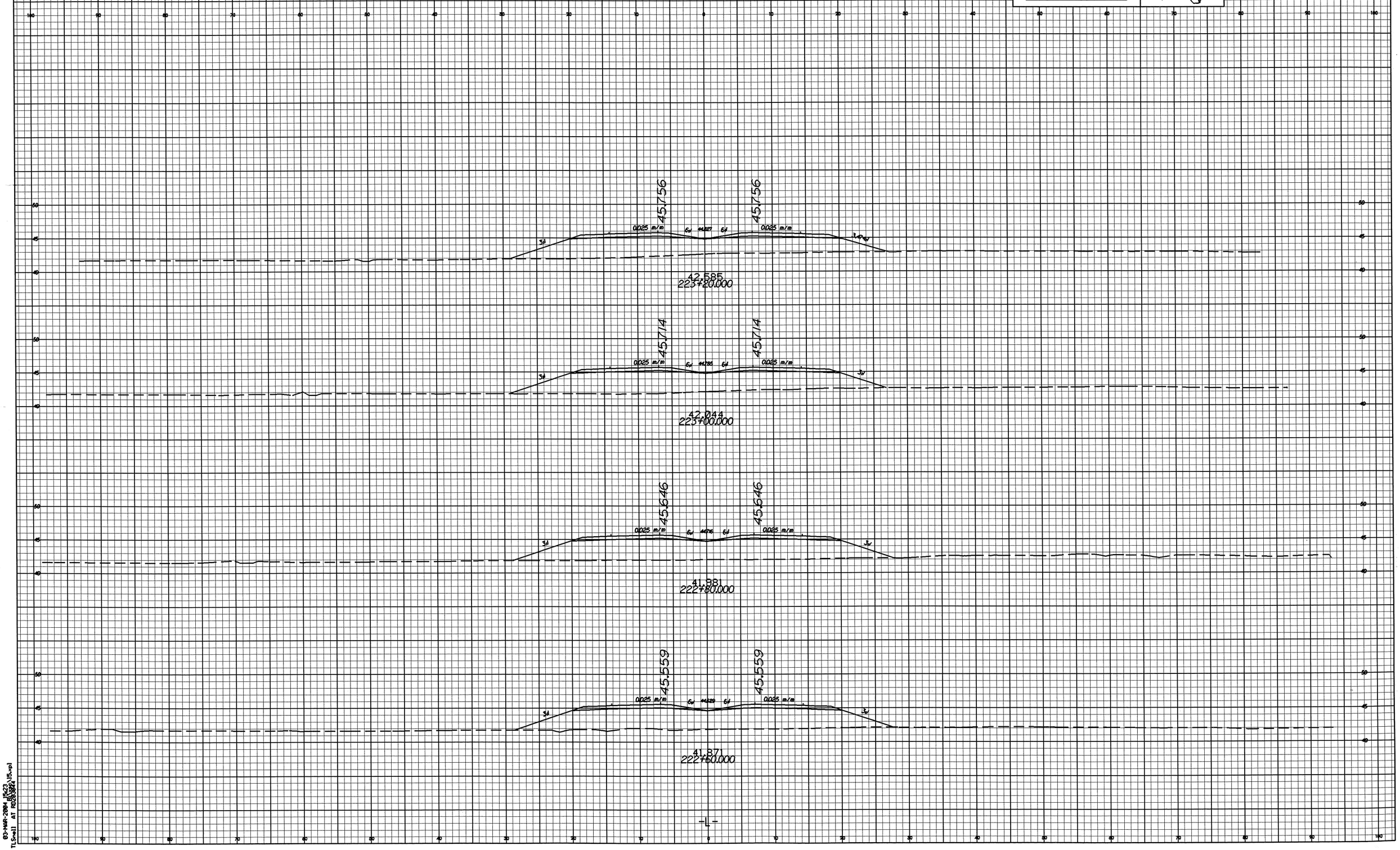


03-MAR-2004 15:22
TLSnell AT RD203844

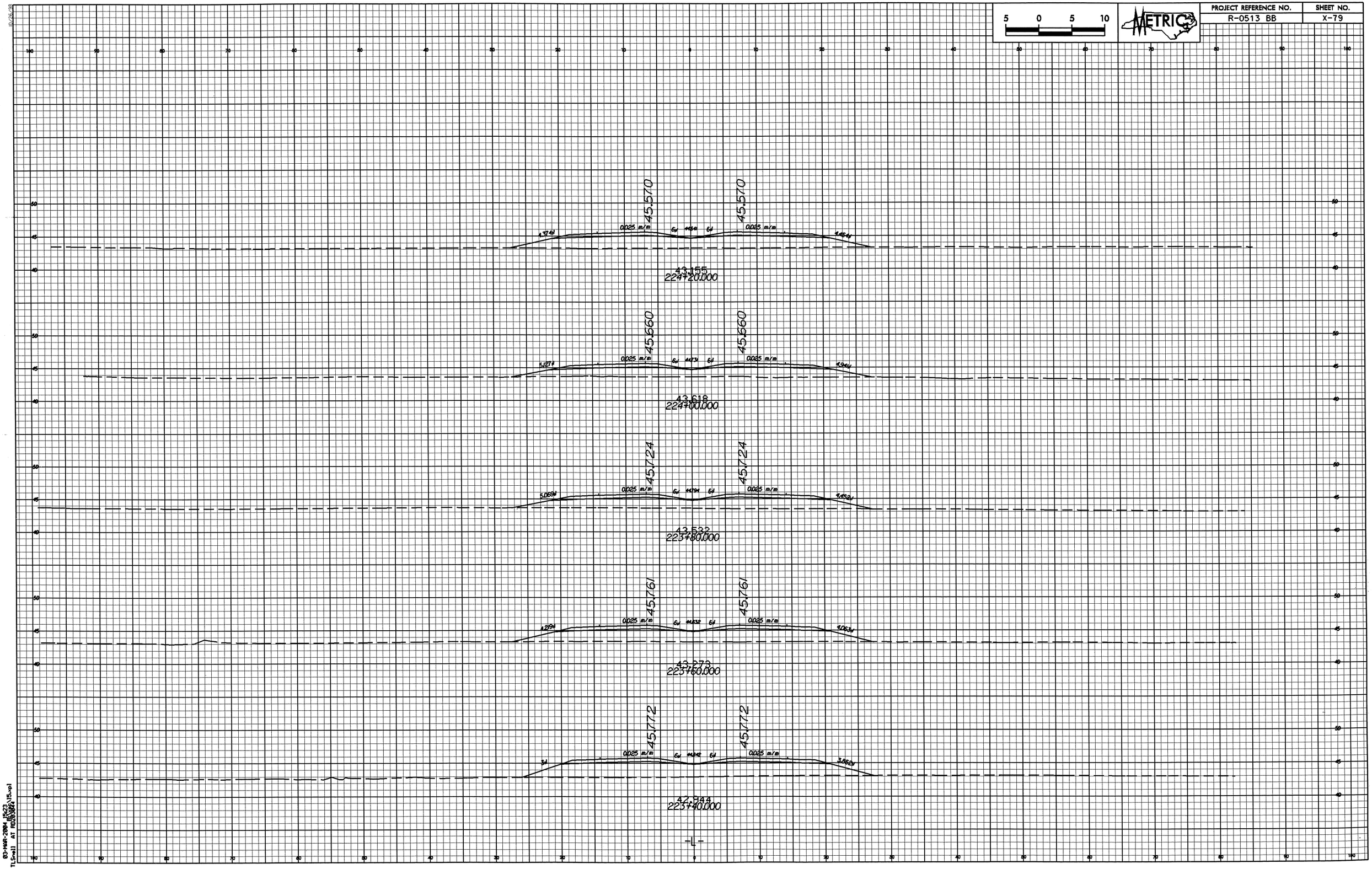


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-77
45.470
45.470
0.025 m/m
0.025 m/m
41.785
222+40.000
45.382
45.382
0.025 m/m
0.025 m/m
41.697
222+20.000
45.294
45.294
0.025 m/m
0.025 m/m
41.736
222+00.000
45.205
45.205
0.025 m/m
0.025 m/m
41.921
221+80.000
-L-

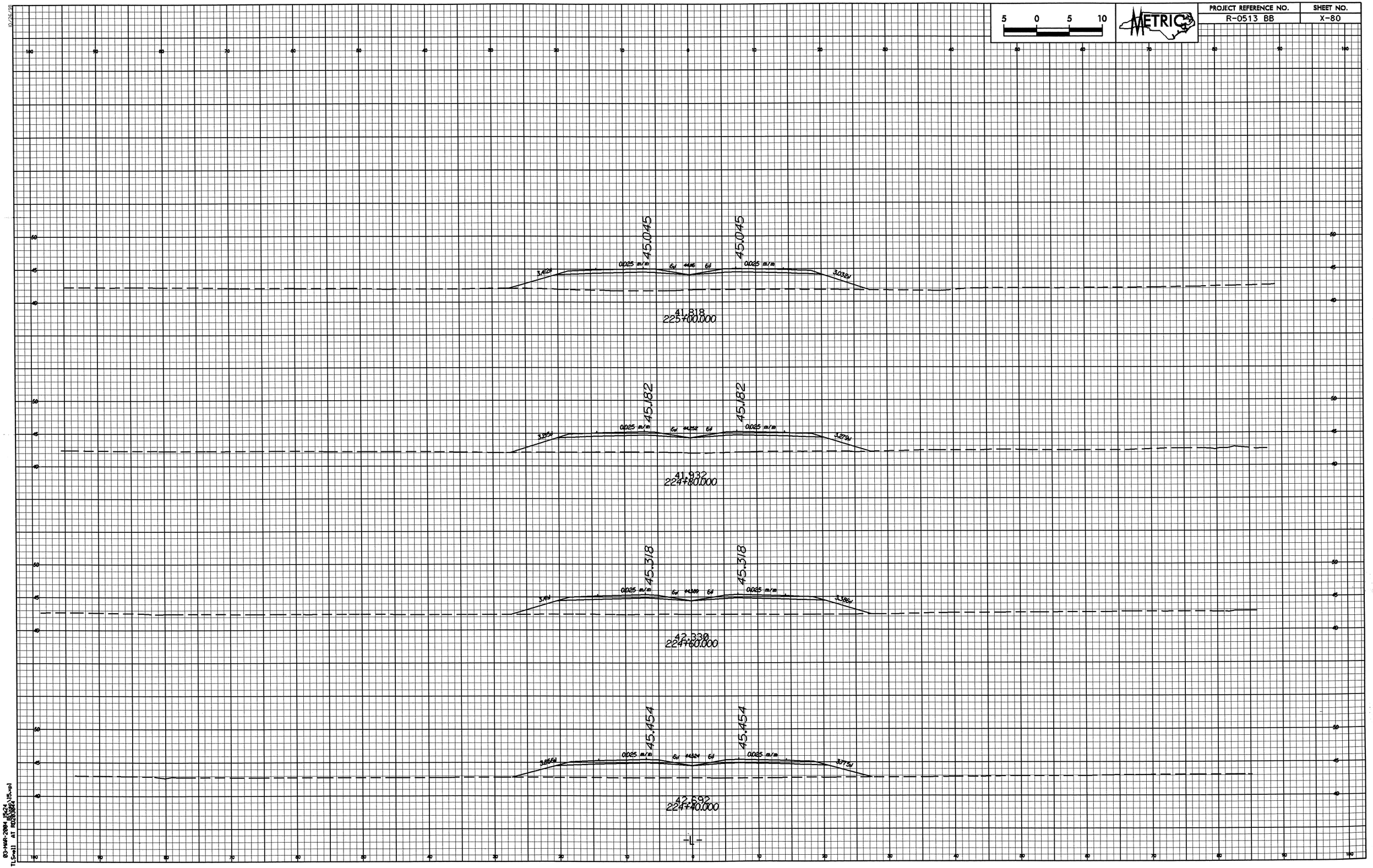
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-78



03-MAR-2004 15:23
TLSnell AT RD2803A4

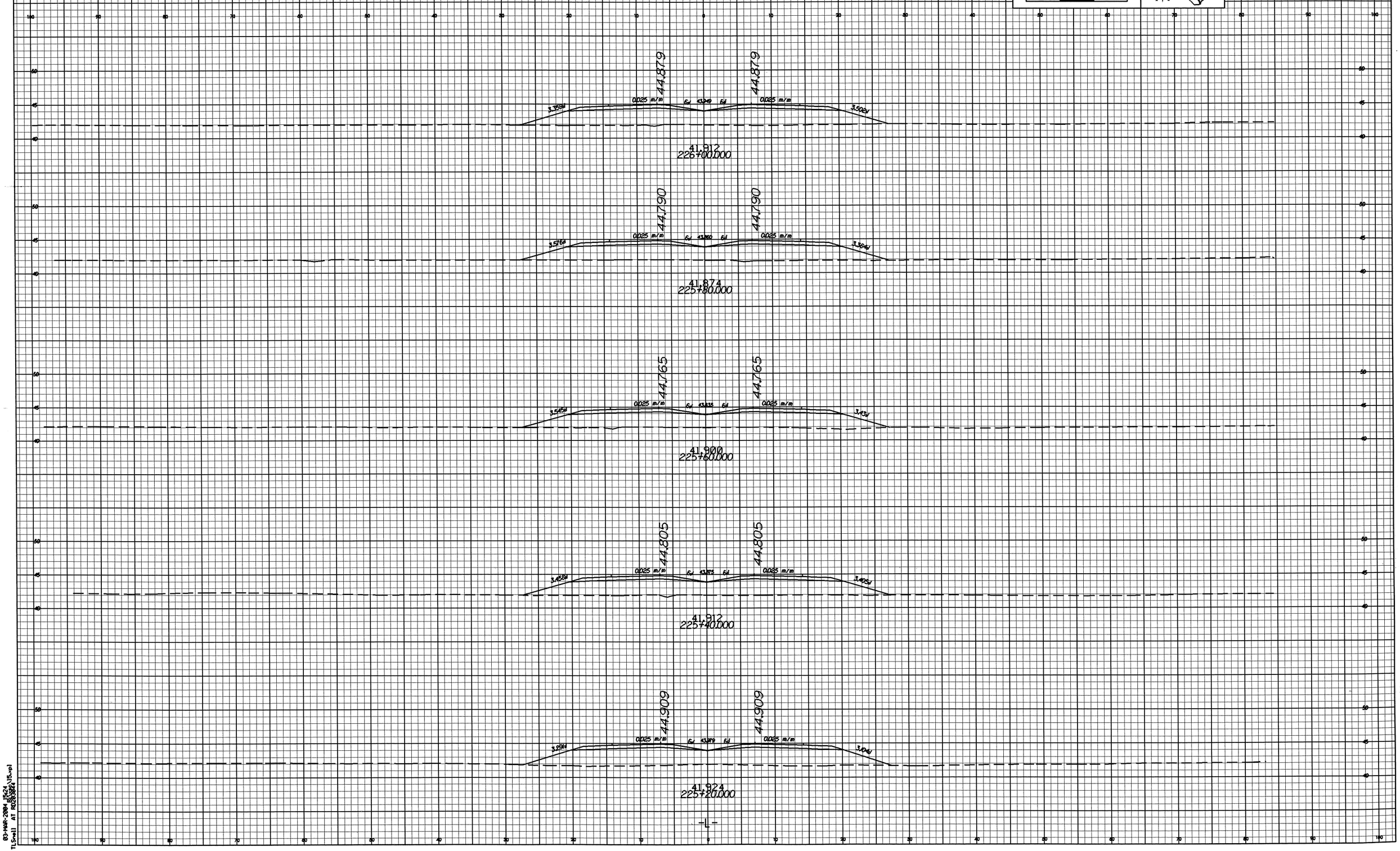


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-79
45.570
45.570
0.025 m/m
0.025 m/m
43.155
224+20.000
45.660
45.660
0.025 m/m
0.025 m/m
43.618
224+00.000
45.724
45.724
0.025 m/m
0.025 m/m
43.532
223+80.000
45.761
45.761
0.025 m/m
0.025 m/m
43.273
223+60.000
45.772
45.772
0.025 m/m
0.025 m/m
42.944
223+40.000
-L-

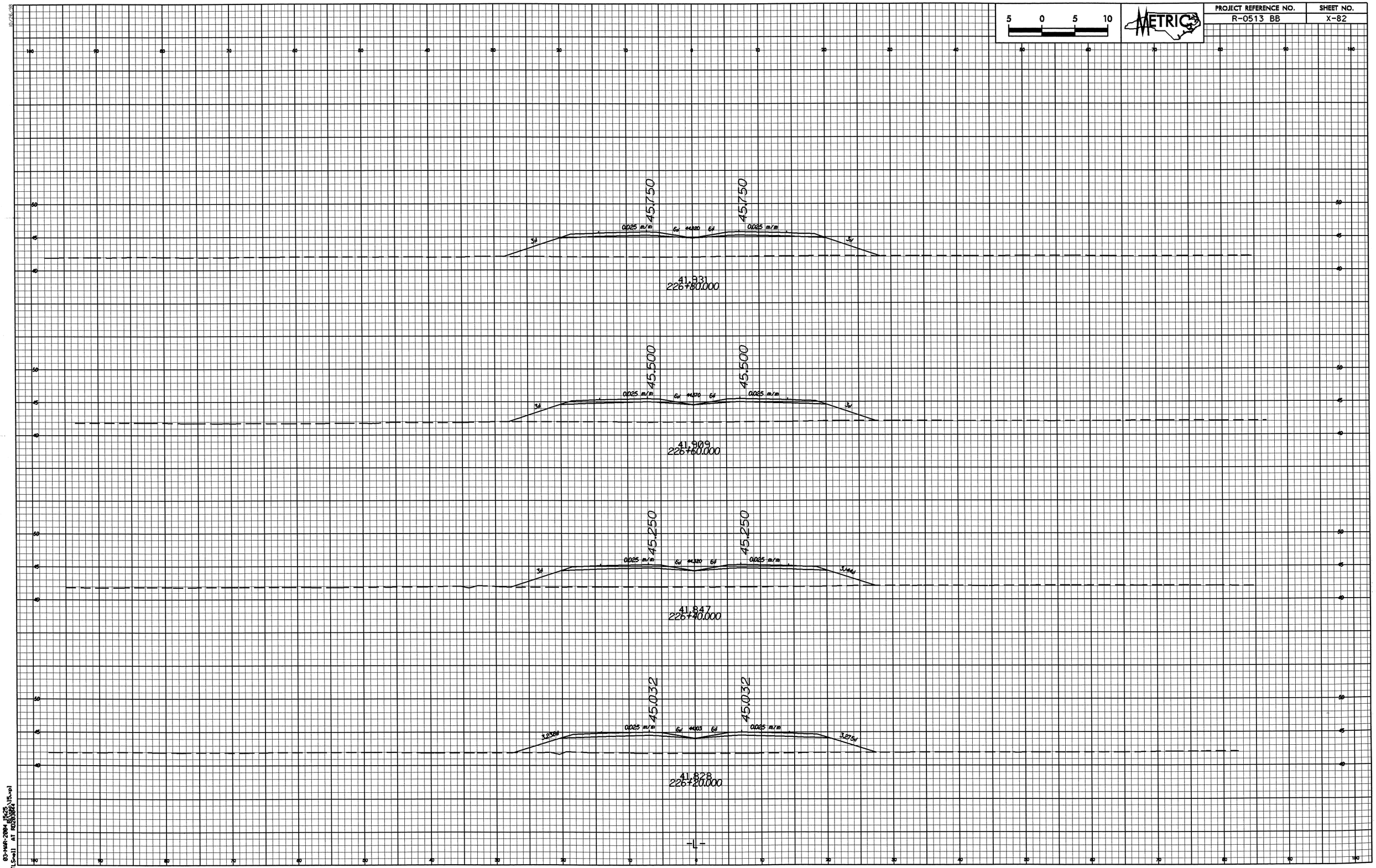


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-80
45.045
45.045
0.025 m/m
0.025 m/m
41.818
225+00.000
45.182
45.182
0.025 m/m
0.025 m/m
41.932
224+80.000
45.318
45.318
0.025 m/m
0.025 m/m
42.330
224+60.000
45.454
45.454
0.025 m/m
0.025 m/m
42.692
224+40.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-81

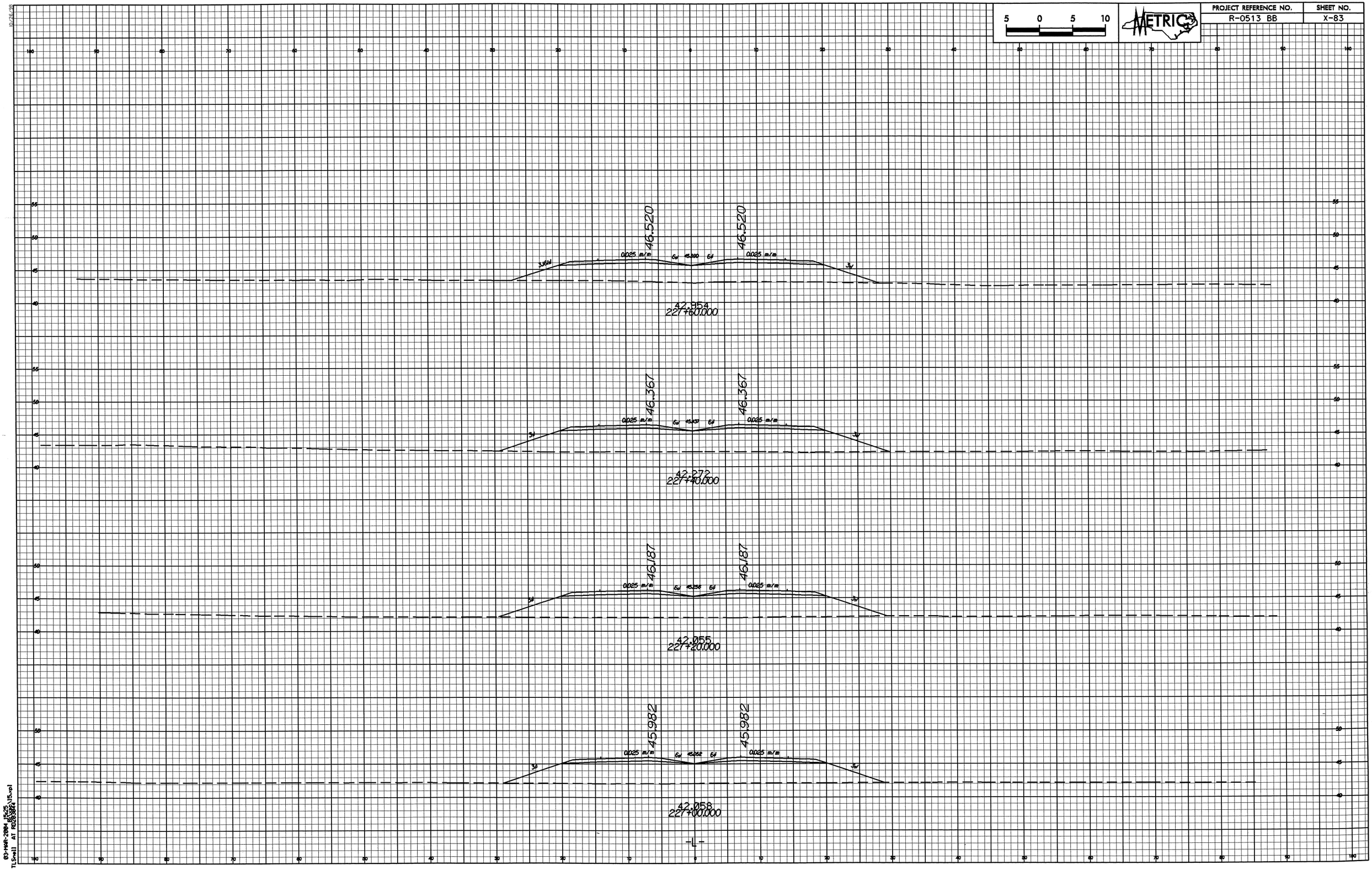


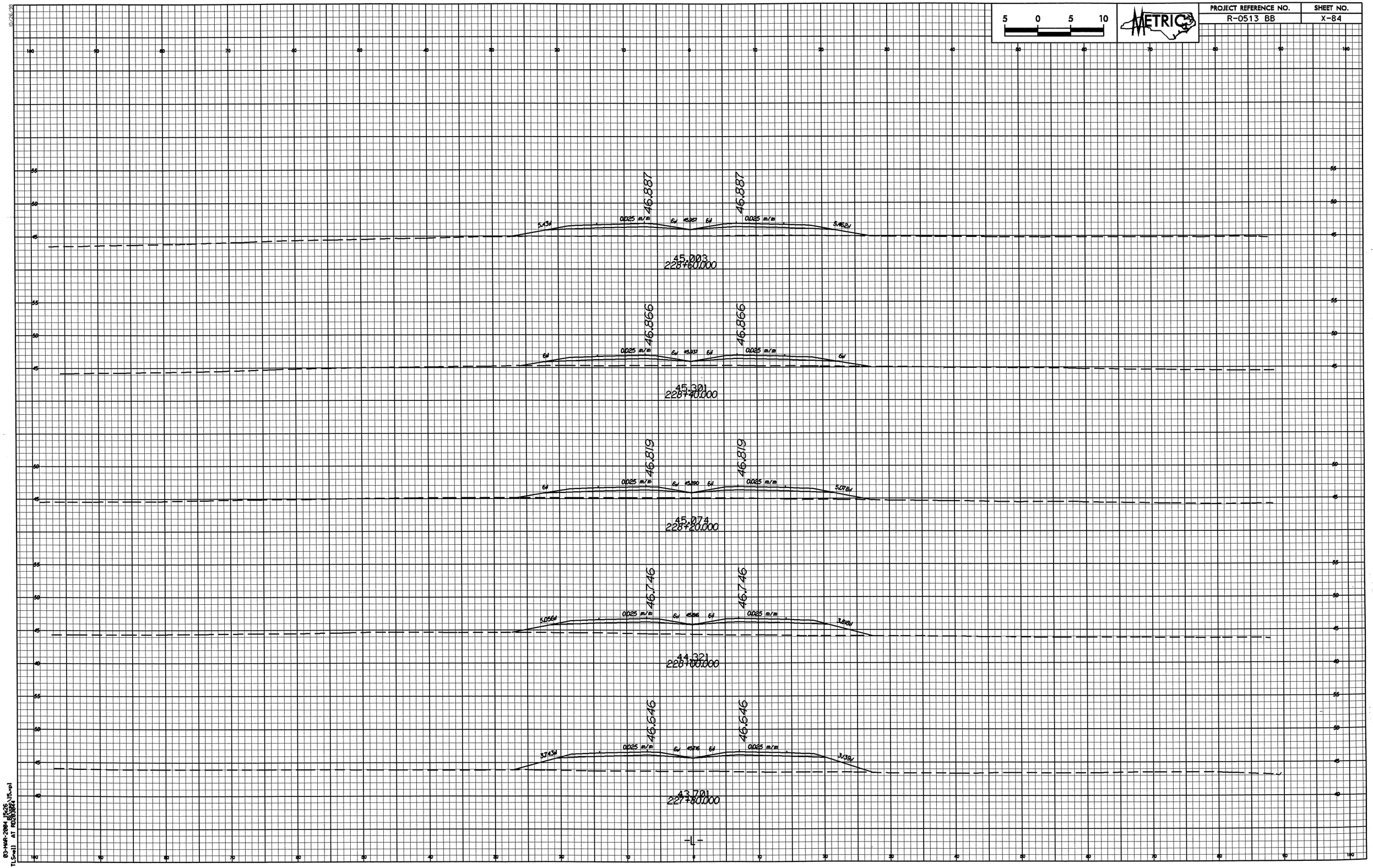
03-MAR-2004 15:24
TLSnell AT RD20304



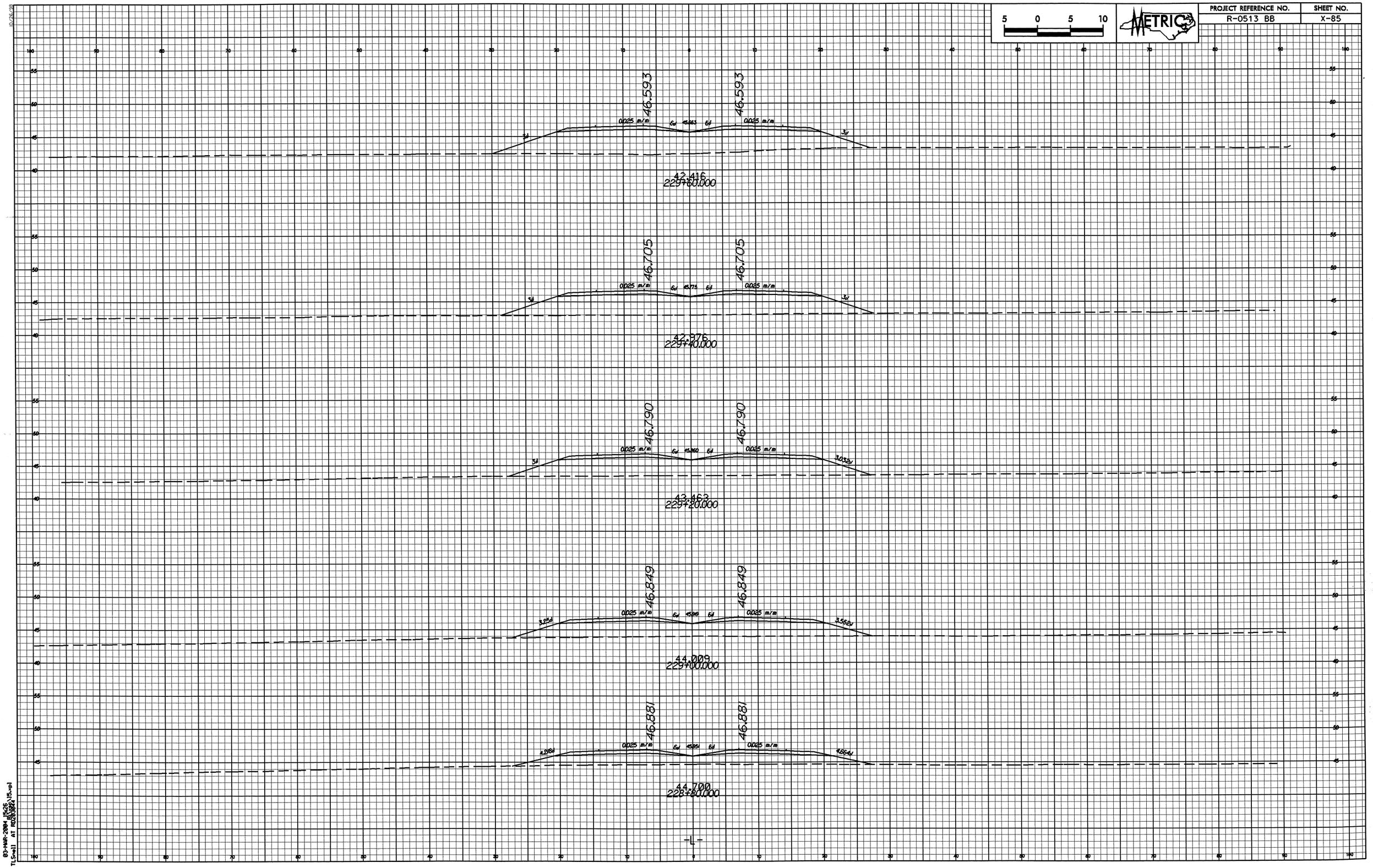
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-82
45.750
45.750
0.025 m/m
0.025 m/m
41.931
226+80.000
45.500
45.500
0.025 m/m
0.025 m/m
41.909
226+60.000
45.250
45.250
0.025 m/m
0.025 m/m
41.847
226+40.000
45.032
45.032
0.025 m/m
0.025 m/m
41.828
226+20.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-83

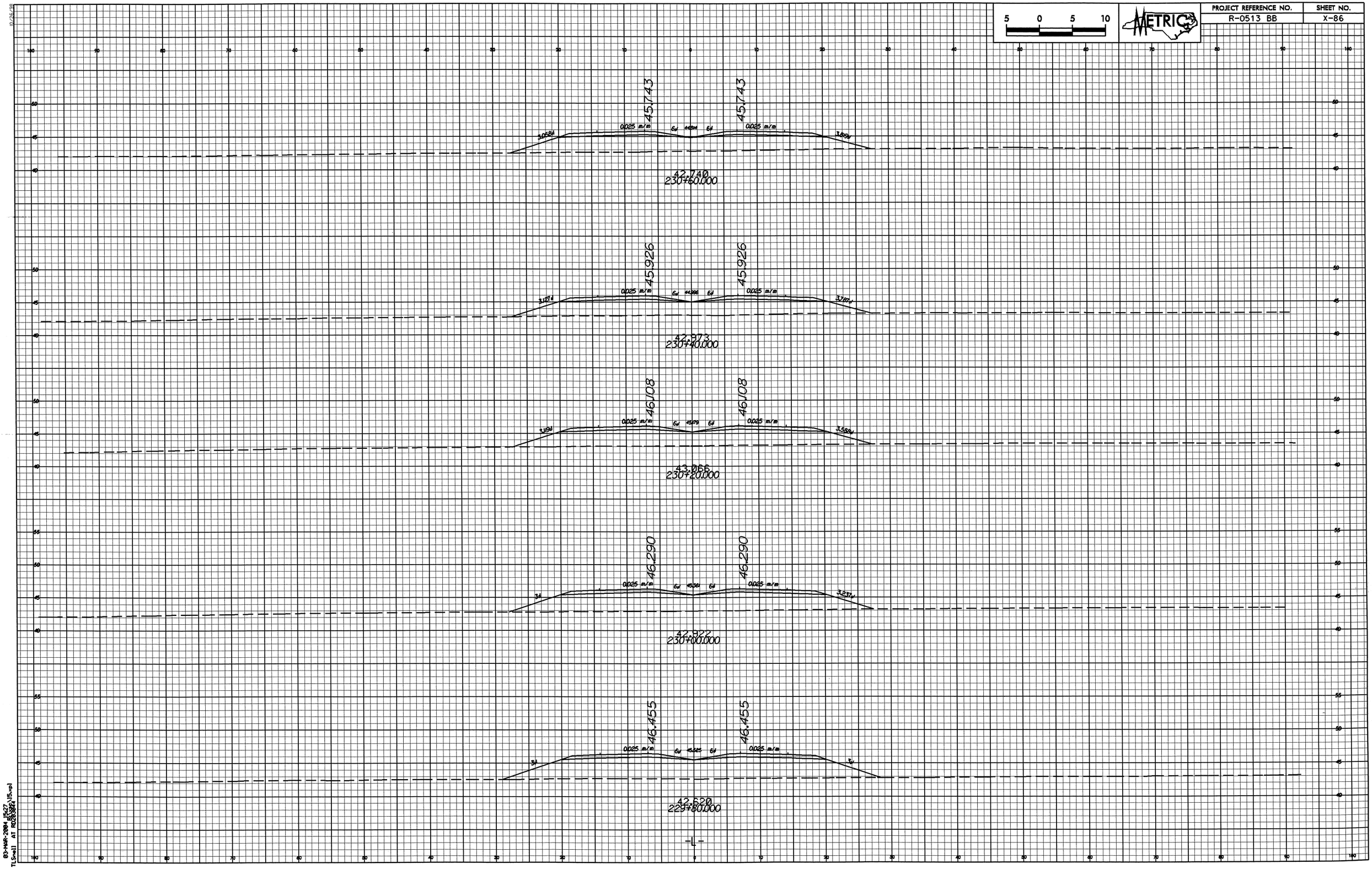




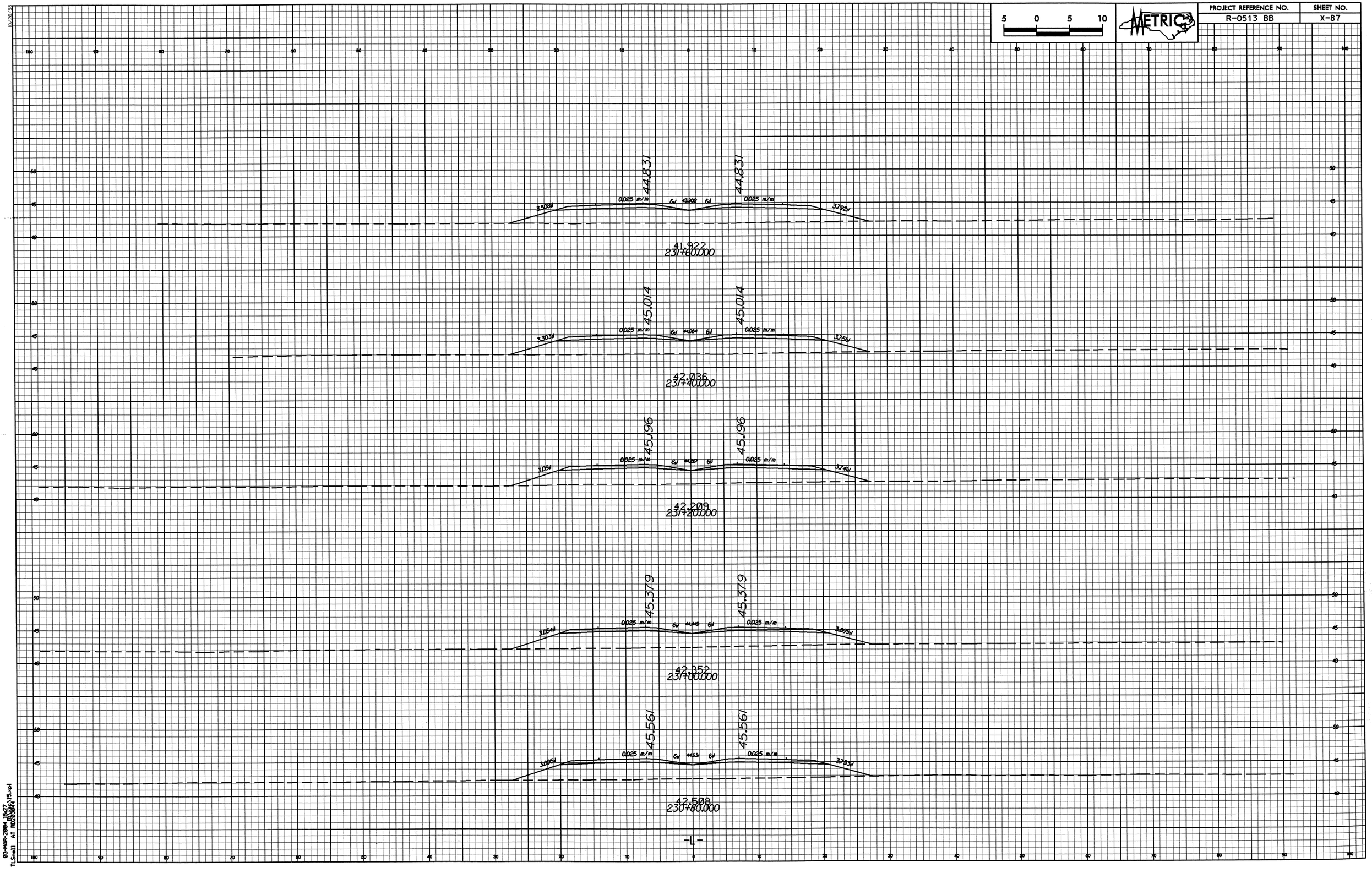
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-84
46.887
46.887
0.025 m/m
0.025 m/m
45.003
228+60.000
46.866
46.866
0.025 m/m
0.025 m/m
45.301
228+40.000
46.819
46.819
0.025 m/m
0.025 m/m
45.074
228+20.000
46.746
46.746
0.025 m/m
0.025 m/m
44.321
228+00.000
46.646
46.646
0.025 m/m
0.025 m/m
43.701
227+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-85
46.593
46.593
0.025 m/m
0.025 m/m
42.416
229+60.000
46.705
46.705
0.025 m/m
0.025 m/m
42.976
229+40.000
46.790
46.790
0.025 m/m
0.025 m/m
43.463
229+20.000
46.849
46.849
0.025 m/m
0.025 m/m
44.009
229+00.000
46.881
46.881
0.025 m/m
0.025 m/m
44.700
228+80.000
-L-

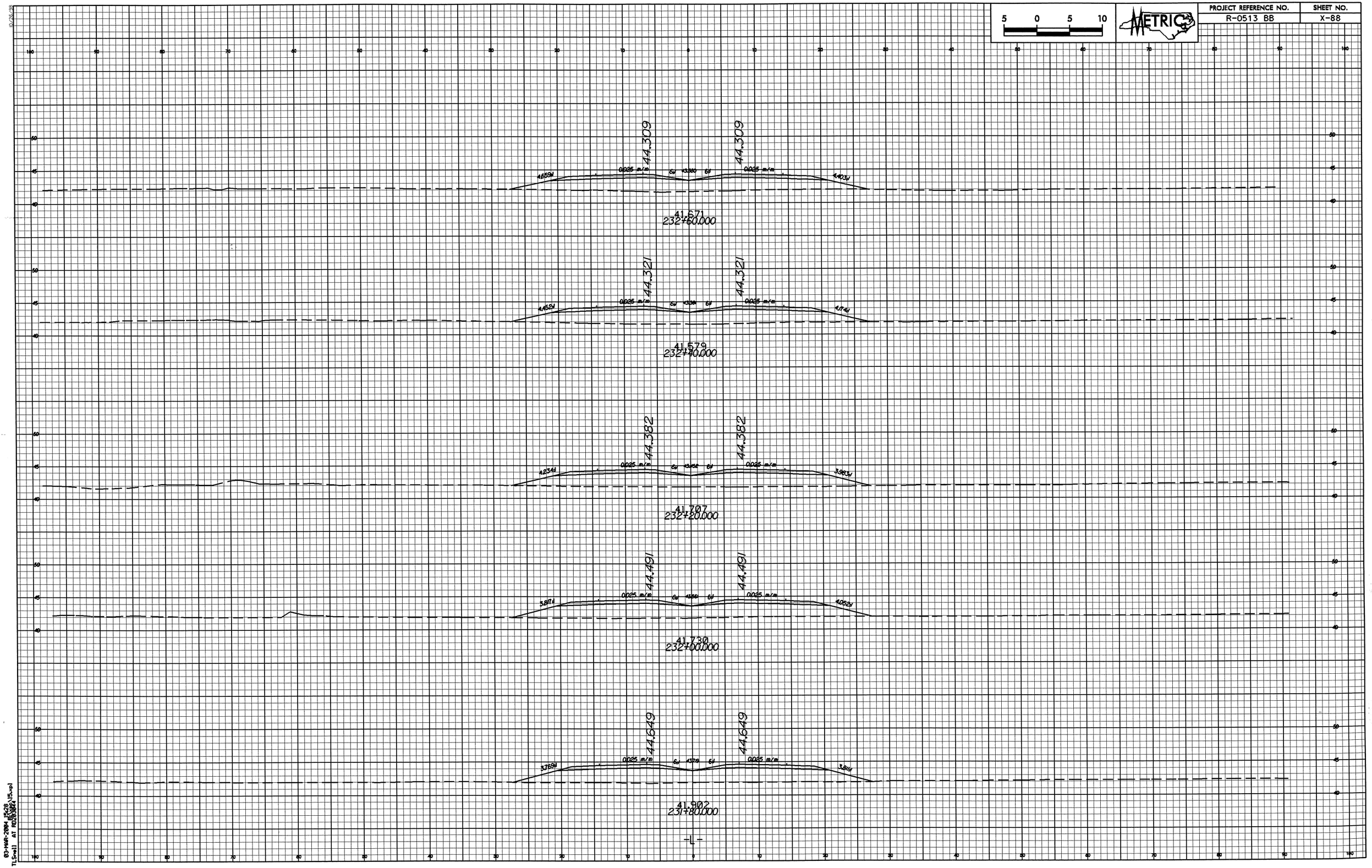


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-86
45.743
45.743
0.025 m/m
0.025 m/m
42.740
230+60.000
45.926
45.926
0.025 m/m
0.025 m/m
42.973
230+40.000
46.108
46.108
0.025 m/m
0.025 m/m
43.066
230+20.000
46.290
46.290
0.025 m/m
0.025 m/m
42.922
230+00.000
46.455
46.455
0.025 m/m
0.025 m/m
42.620
229+80.000
-L-

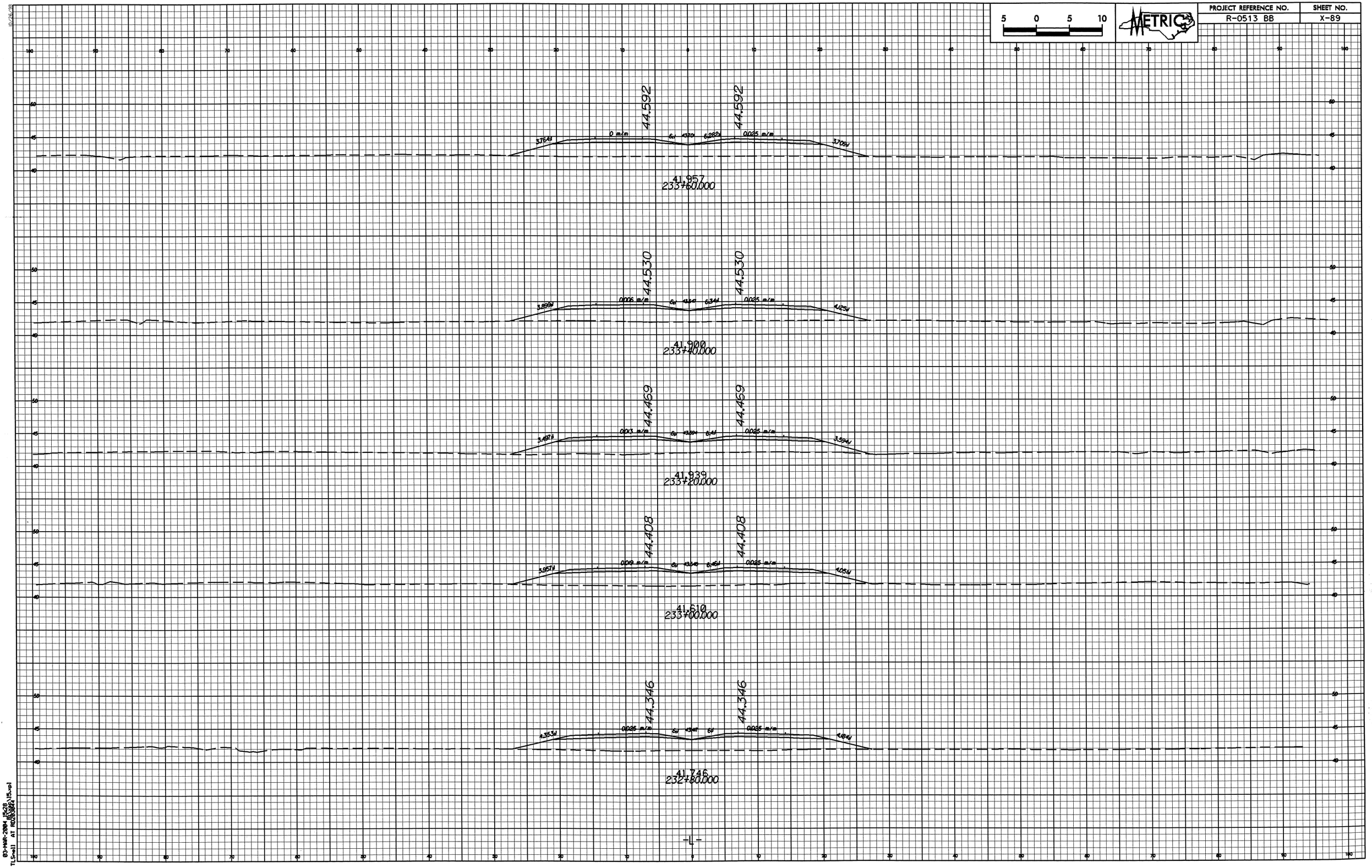


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-87
44.831
44.831
0.025 m/m
0.025 m/m
41.922
231+60.000
45.014
45.014
0.025 m/m
0.025 m/m
42.036
231+40.000
45.196
45.196
0.025 m/m
0.025 m/m
42.209
231+20.000
45.379
45.379
0.025 m/m
0.025 m/m
42.352
231+00.000
45.561
45.561
0.025 m/m
0.025 m/m
42.508
230+80.000
-L-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-88



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-89



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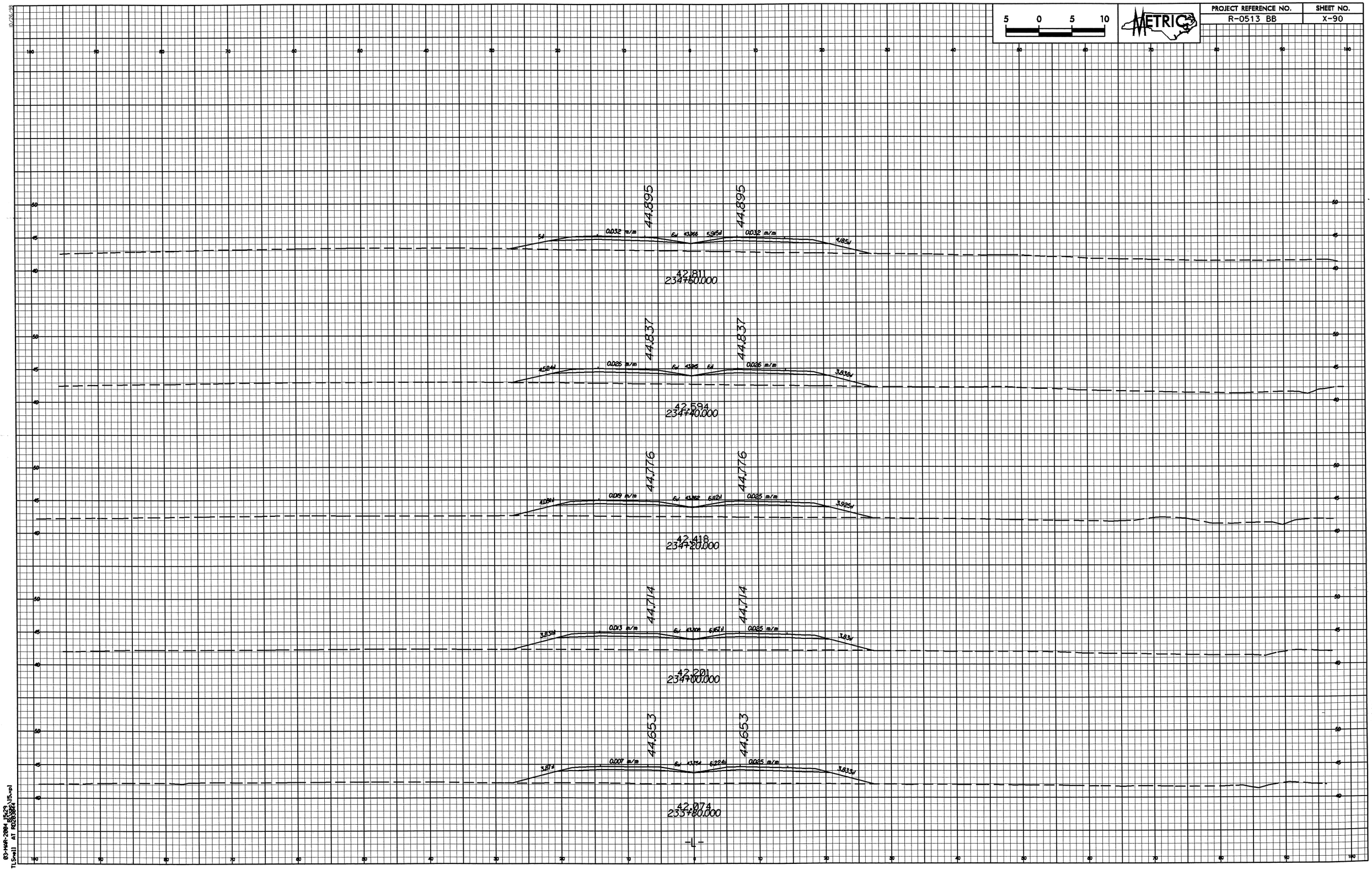
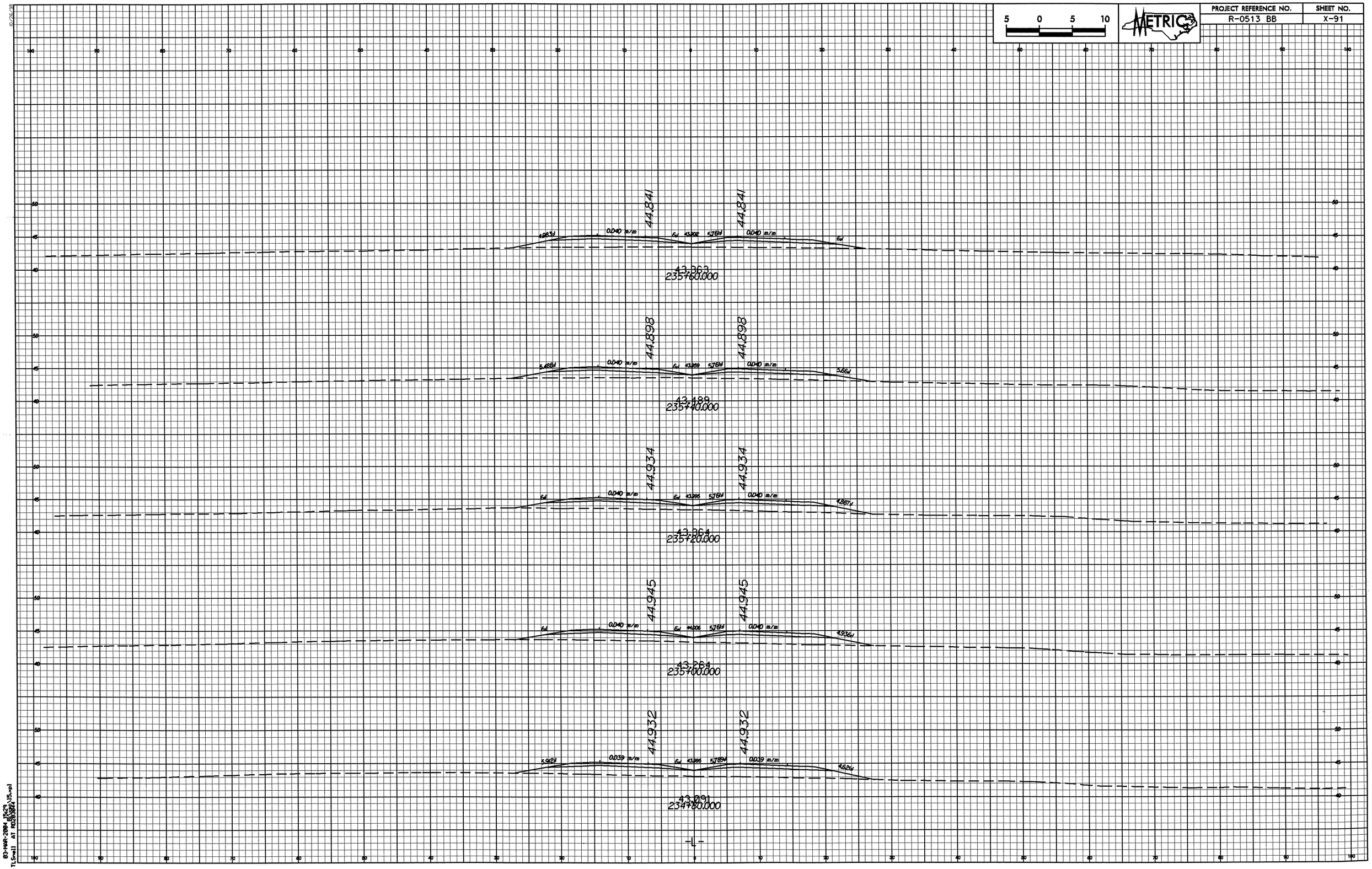
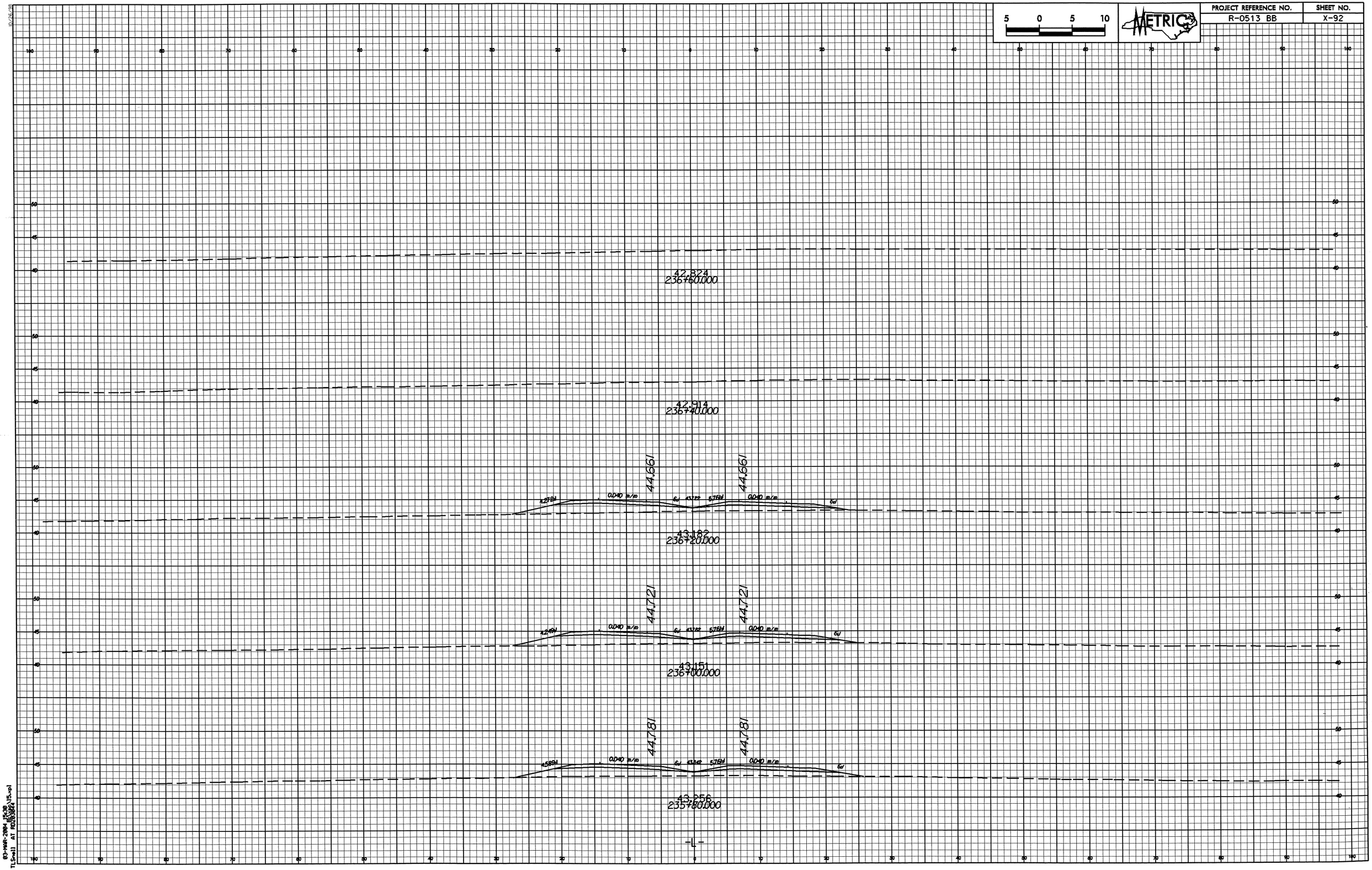
TLSnell AT RD2833844



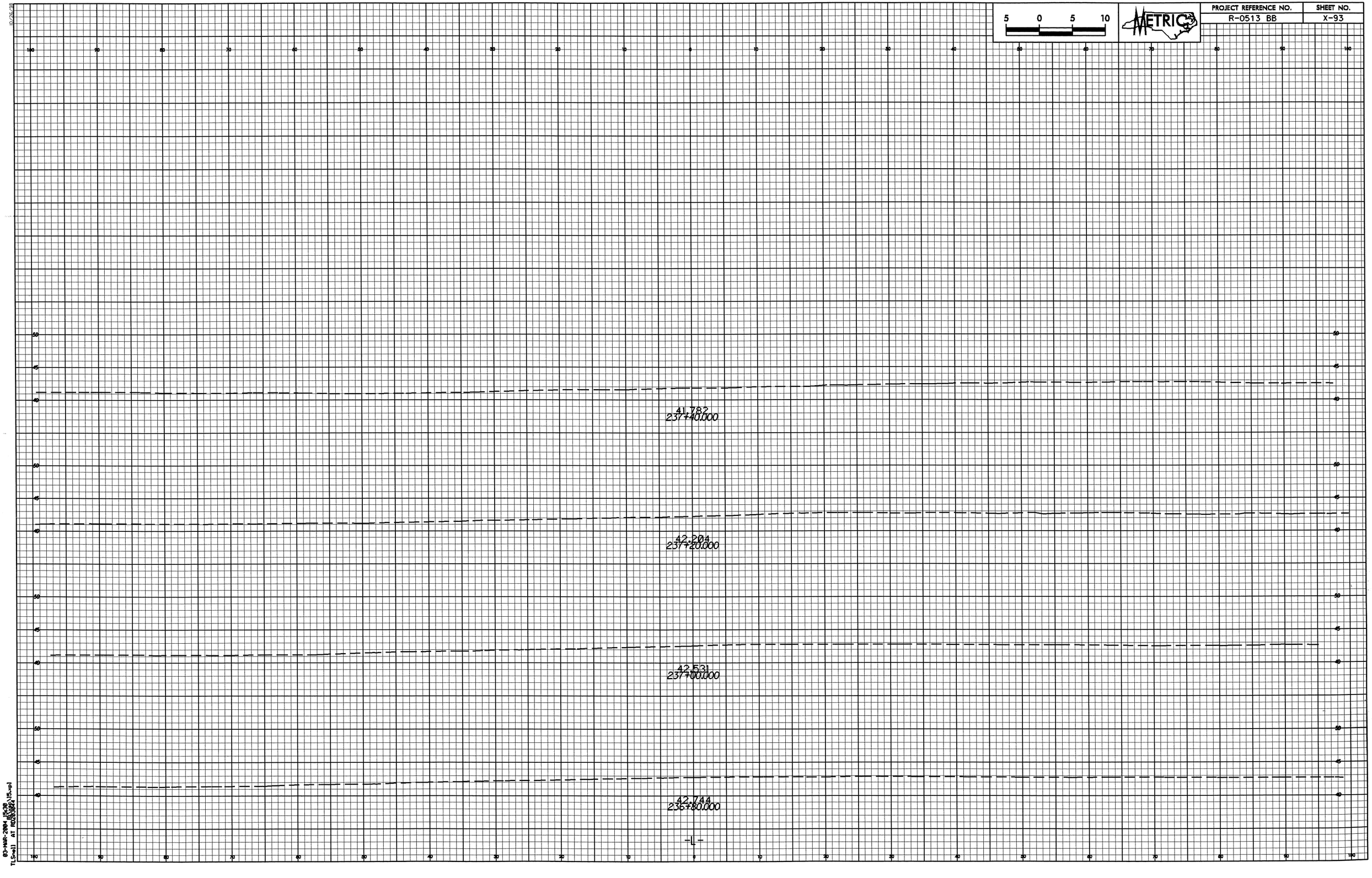
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-90
44.895
44.895
0.032 m/m
0.032 m/m
42.811
234+60.000
44.837
44.837
0.026 m/m
0.026 m/m
42.594
234+40.000
44.776
44.776
0.019 m/m
0.025 m/m
42.418
234+20.000
44.714
44.714
0.013 m/m
0.025 m/m
42.201
234+00.000
44.653
44.653
0.007 m/m
0.025 m/m
42.074
233+80.000
-L-



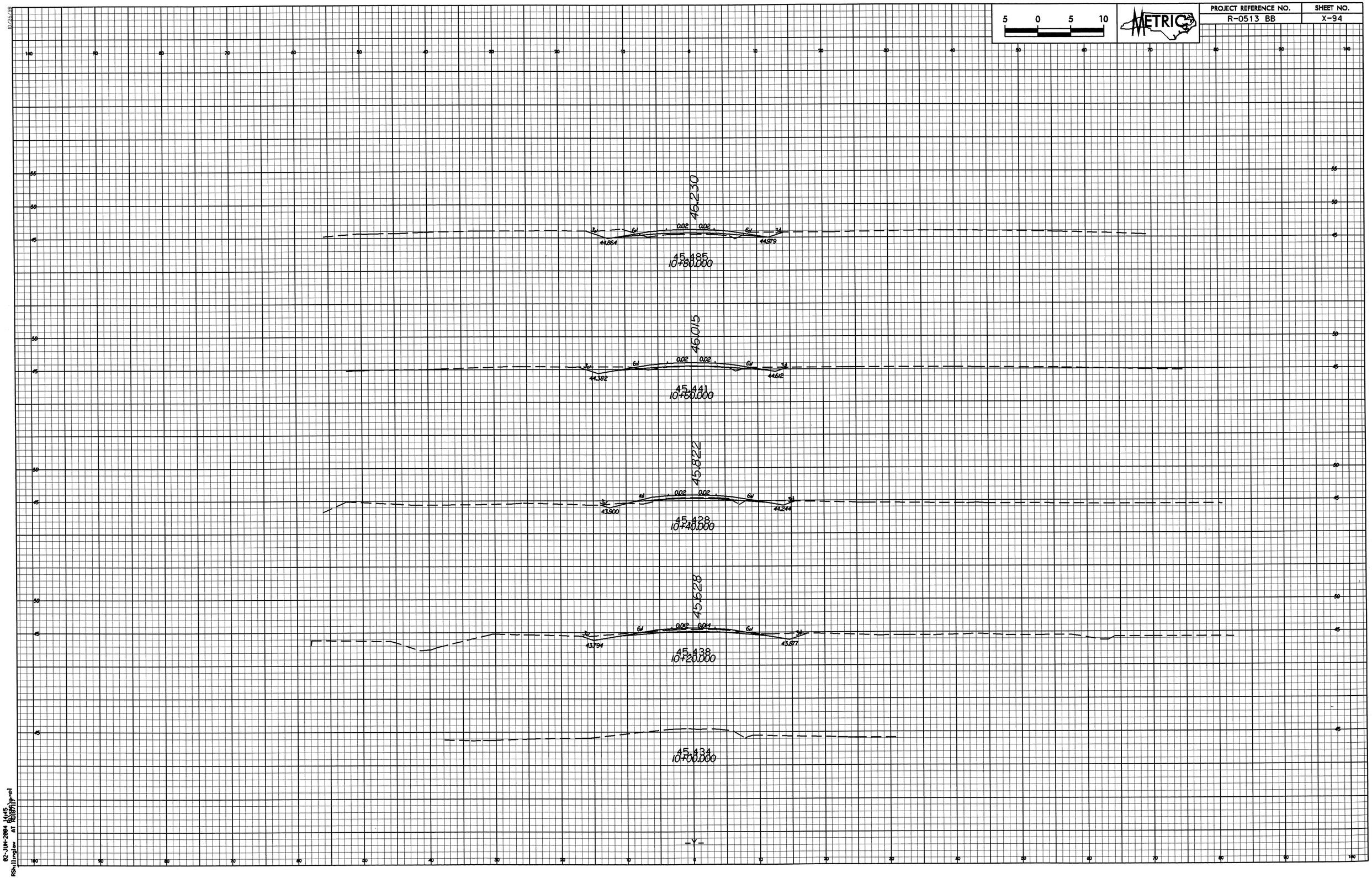
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-91
44.841
44.841
0.040 m/m
0.040 m/m
43.363
235+60.000
44.898
44.898
0.040 m/m
0.040 m/m
43.489
235+40.000
44.934
44.934
0.040 m/m
0.040 m/m
43.364
235+20.000
44.945
44.945
0.040 m/m
0.040 m/m
43.264
235+00.000
44.932
44.932
0.039 m/m
0.039 m/m
43.091
234+80.000
-L-



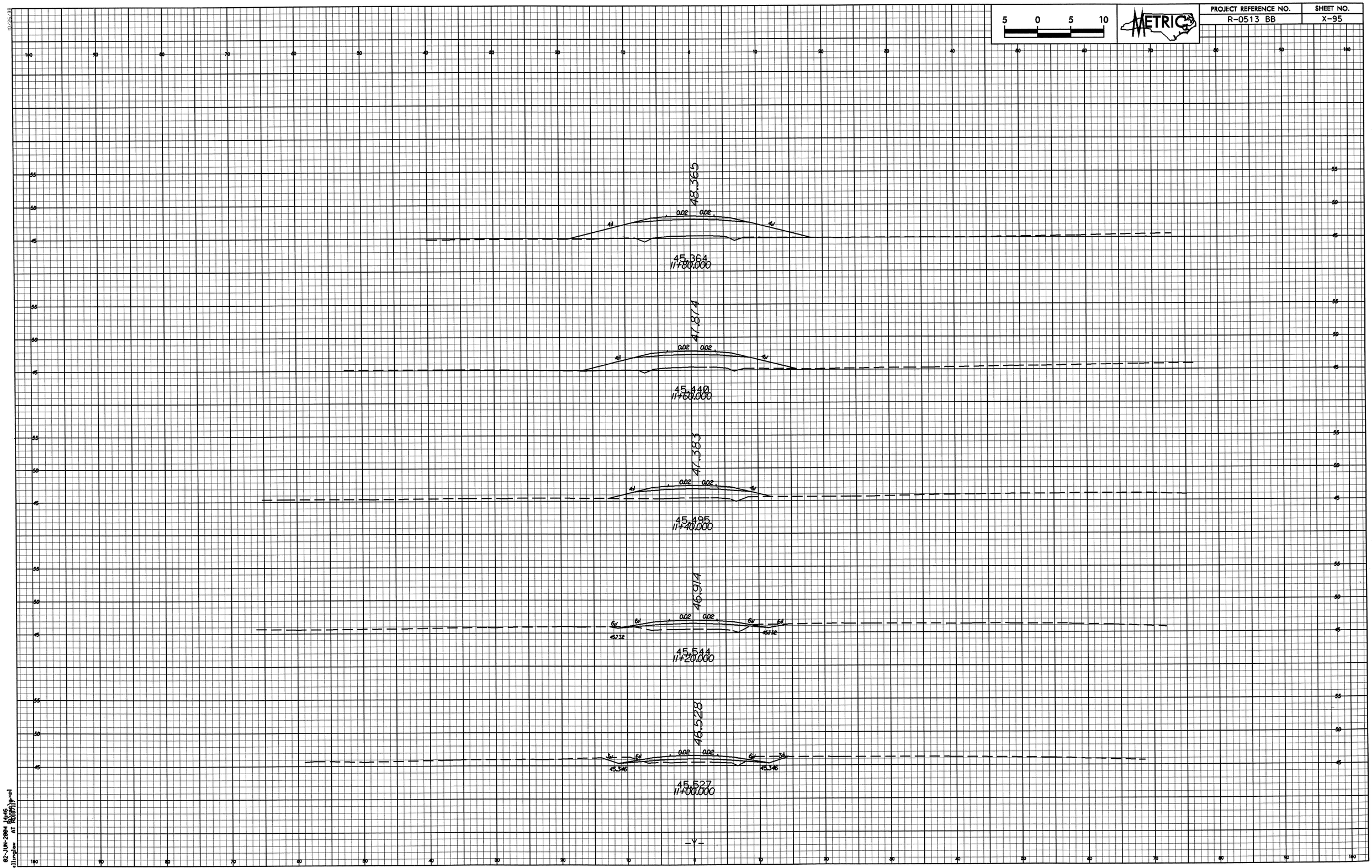
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-92
42.824
236+60.000
42.914
236+40.000
44.661
44.661
0.040 m/m
0.040 m/m
43.182
236+20.000
44.721
44.721
0.040 m/m
0.040 m/m
43.151
236+00.000
44.781
44.781
0.040 m/m
0.040 m/m
43.256
235+80.000
-L-



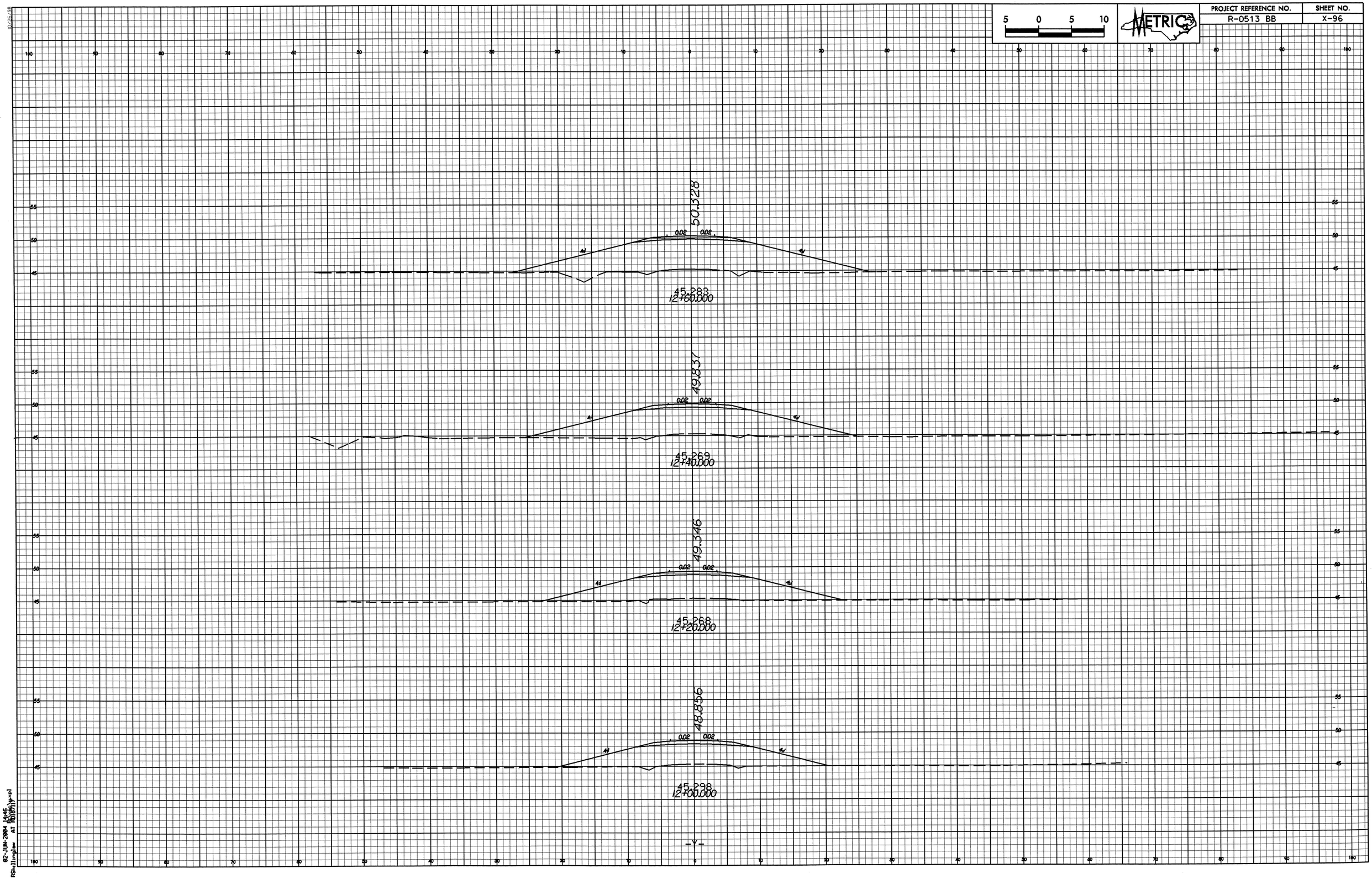
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-93
41.782
237+40.000
42.204
237+20.000
42.531
237+00.000
42.744
236+80.000
-L-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-94
46.230
0.02
0.02
44.864
44.979
45.485
10+80.000
46.015
0.02
0.02
44.382
44.612
45.441
10+60.000
45.822
0.02
0.02
43.900
44.244
45.428
10+40.000
45.628
0.012
0.014
43.794
43.877
45.438
10+20.000
45.434
10+00.000

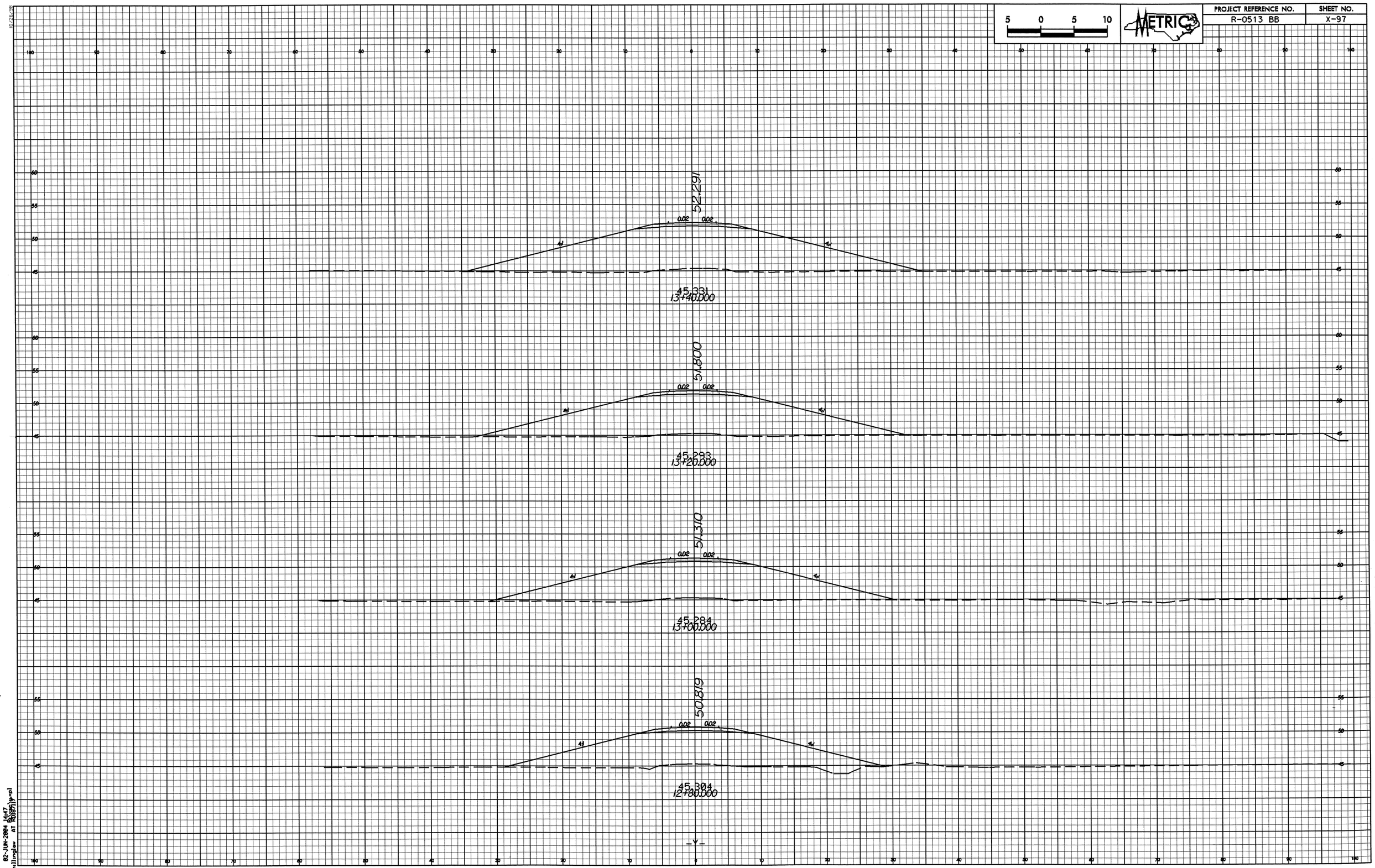


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-95
48.365
0.02
0.02
4:1
4:1
45.364
11+80.000
47.874
0.02
0.02
4:1
4:1
45.440
11+60.000
47.383
0.02
0.02
4:1
4:1
45.495
11+40.000
46.914
0.02
0.02
6:1
6:1
6:1
6:1
45.732
45.732
45.544
11+20.000
46.528
0.02
0.02
3:1
6:1
6:1
3:1
45.346
45.346
45.527
11+00.000
-Y-



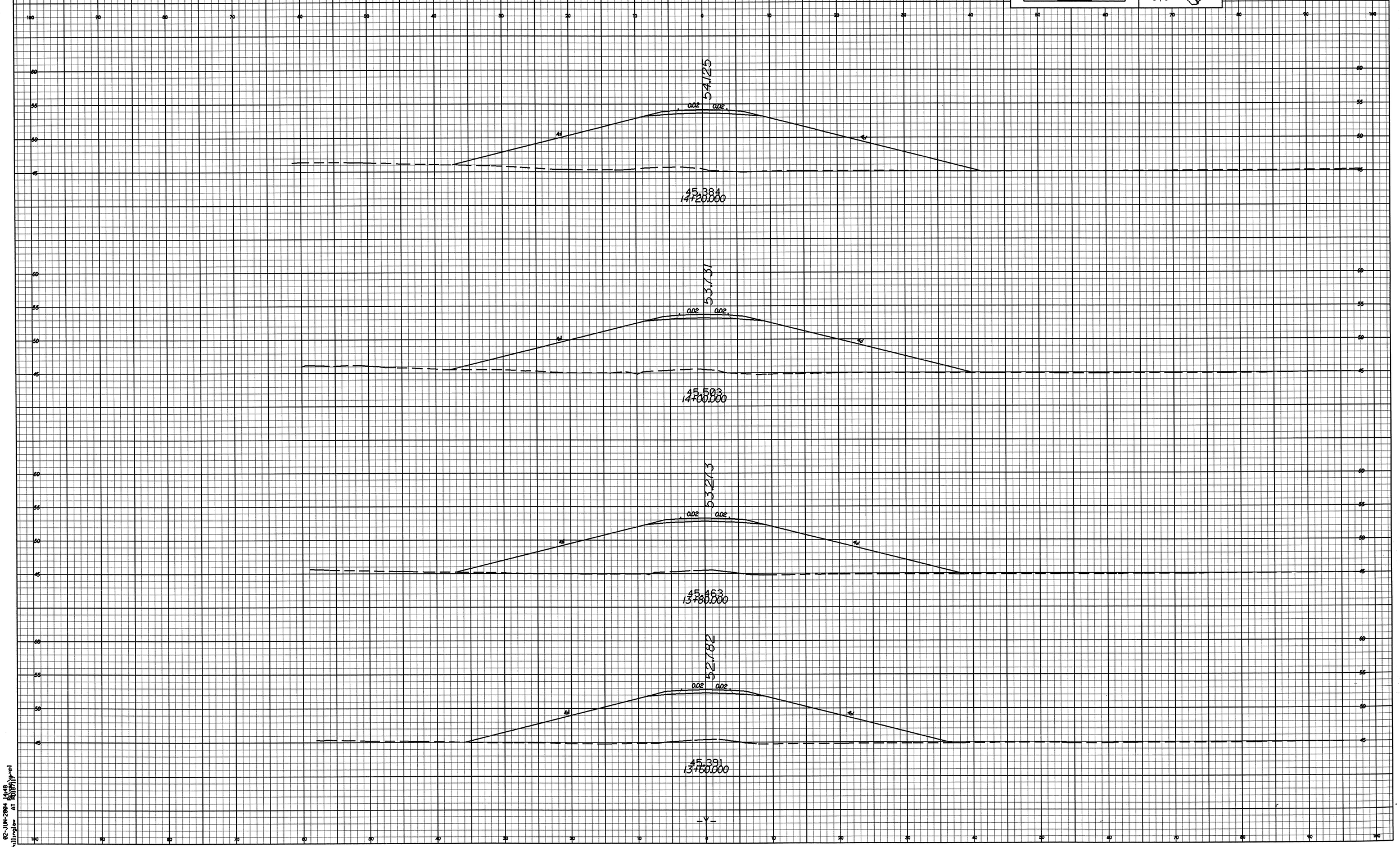
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-96
50.328
0.02
0.02
4:1
4:1
45.283
12+60.000
49.837
0.02
0.02
4:1
4:1
45.269
12+40.000
49.346
0.02
0.02
4:1
4:1
45.268
12+20.000
48.856
0.02
0.02
4:1
4:1
45.298
12+00.000

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-97



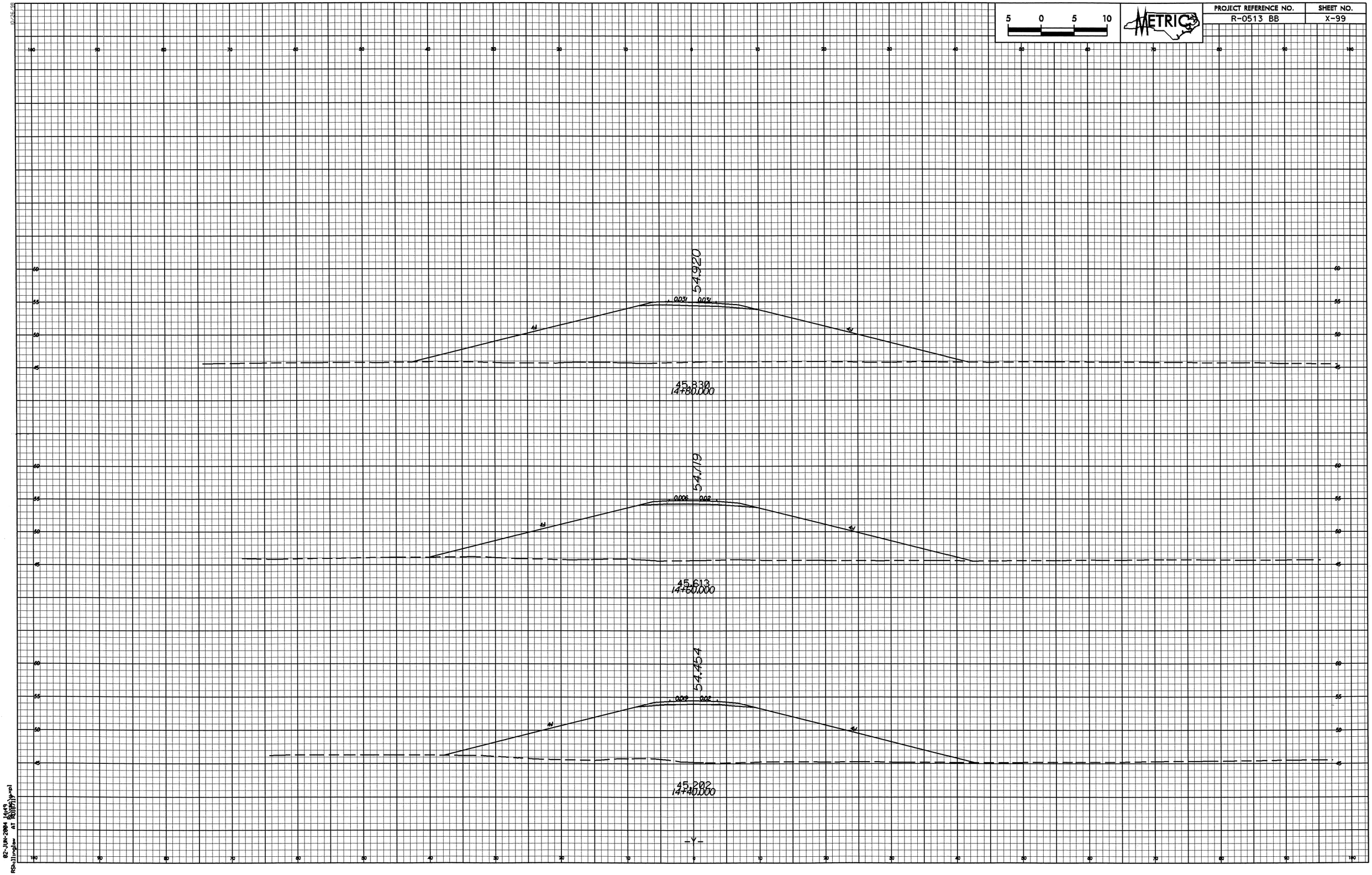
02-JUN-2004 14:47
RShillinglaw

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-98



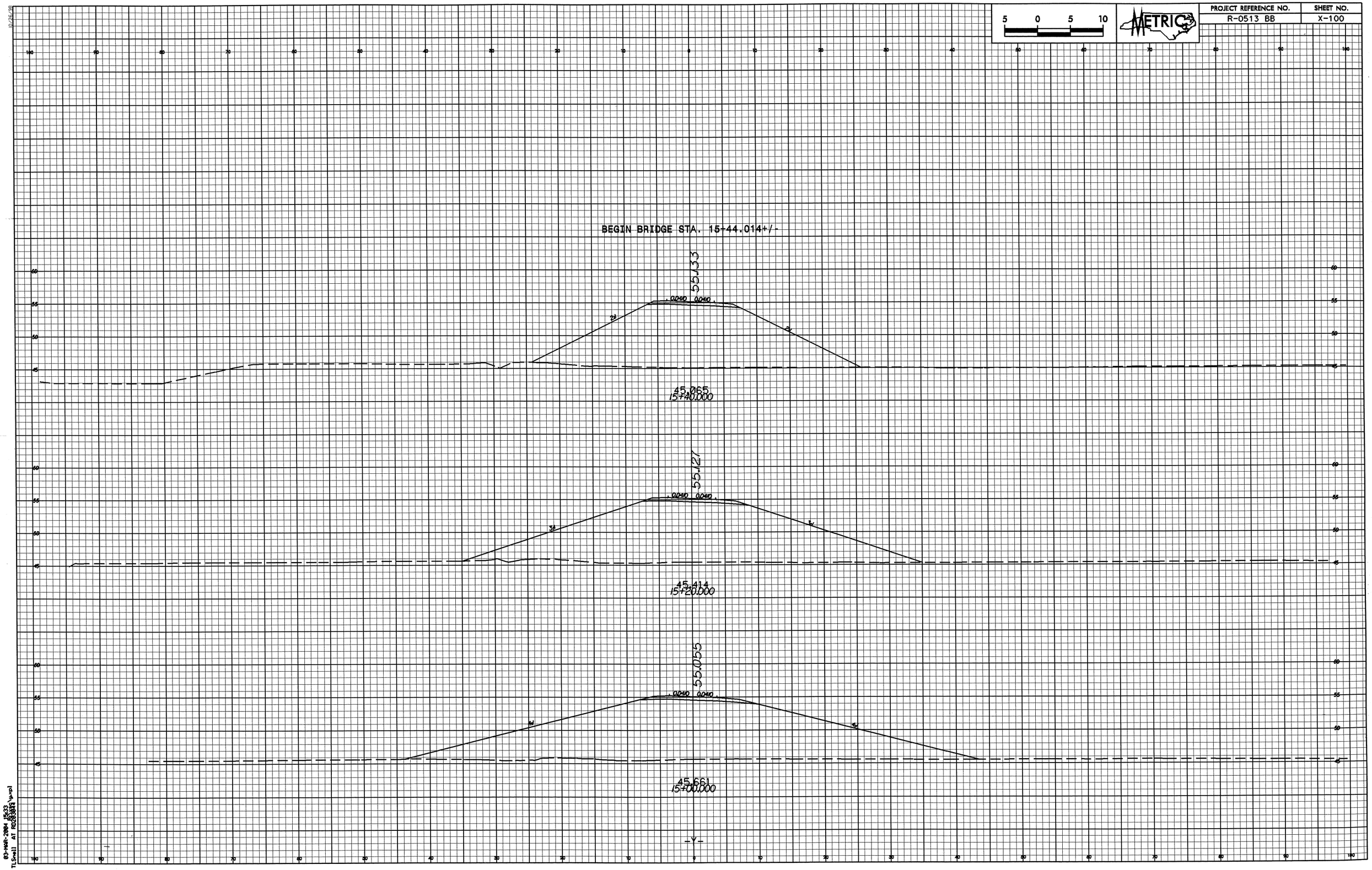
02-JUN-2004 14:48
RShillinglaw AT R0187(1)y-xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-99



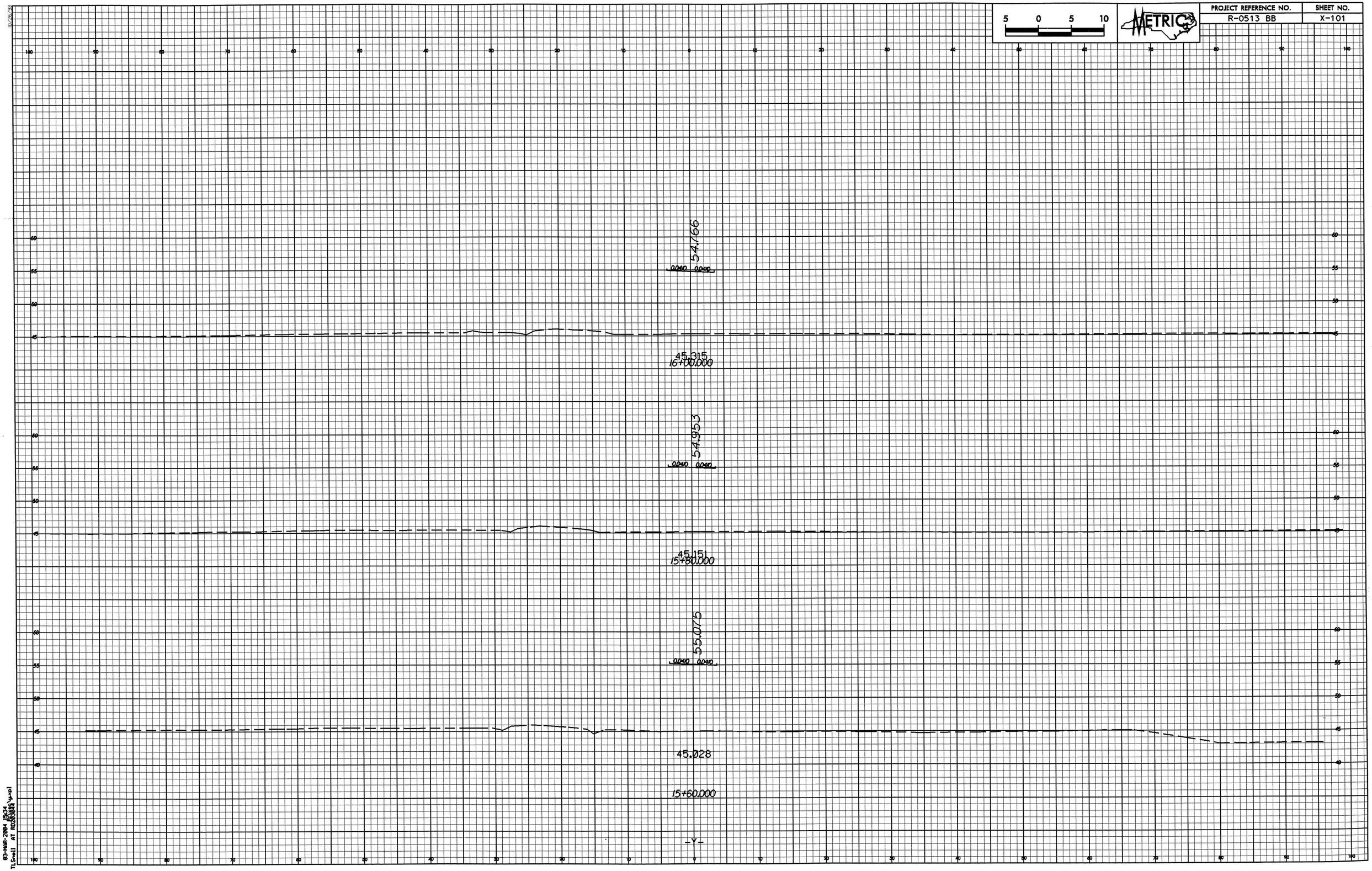
02-JUN-2004 14:49
RShillinglaw AT R0187117

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-100



03-MAR-2004 15:33
TLSnell AT RD2030A1 \u-xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-101



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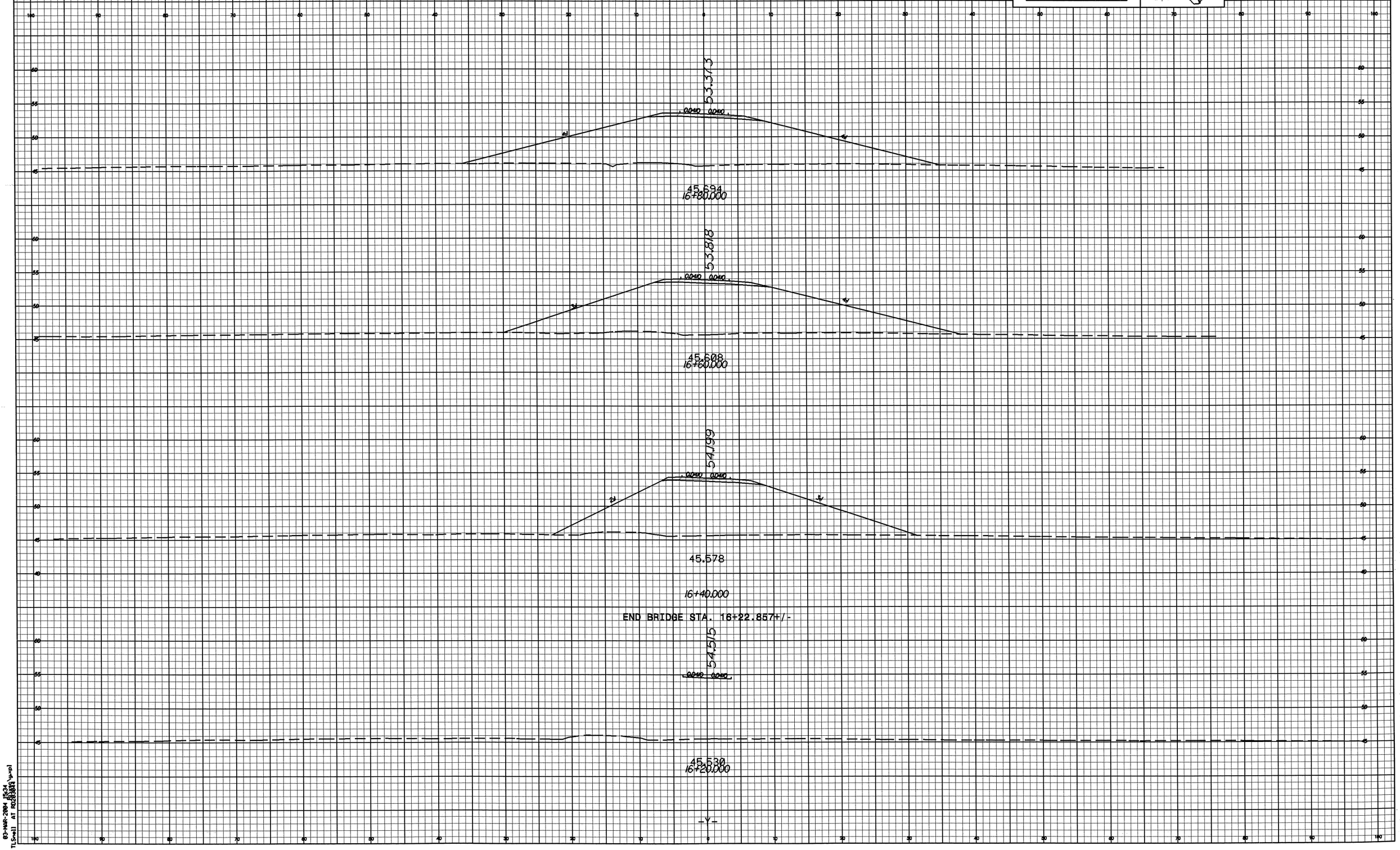
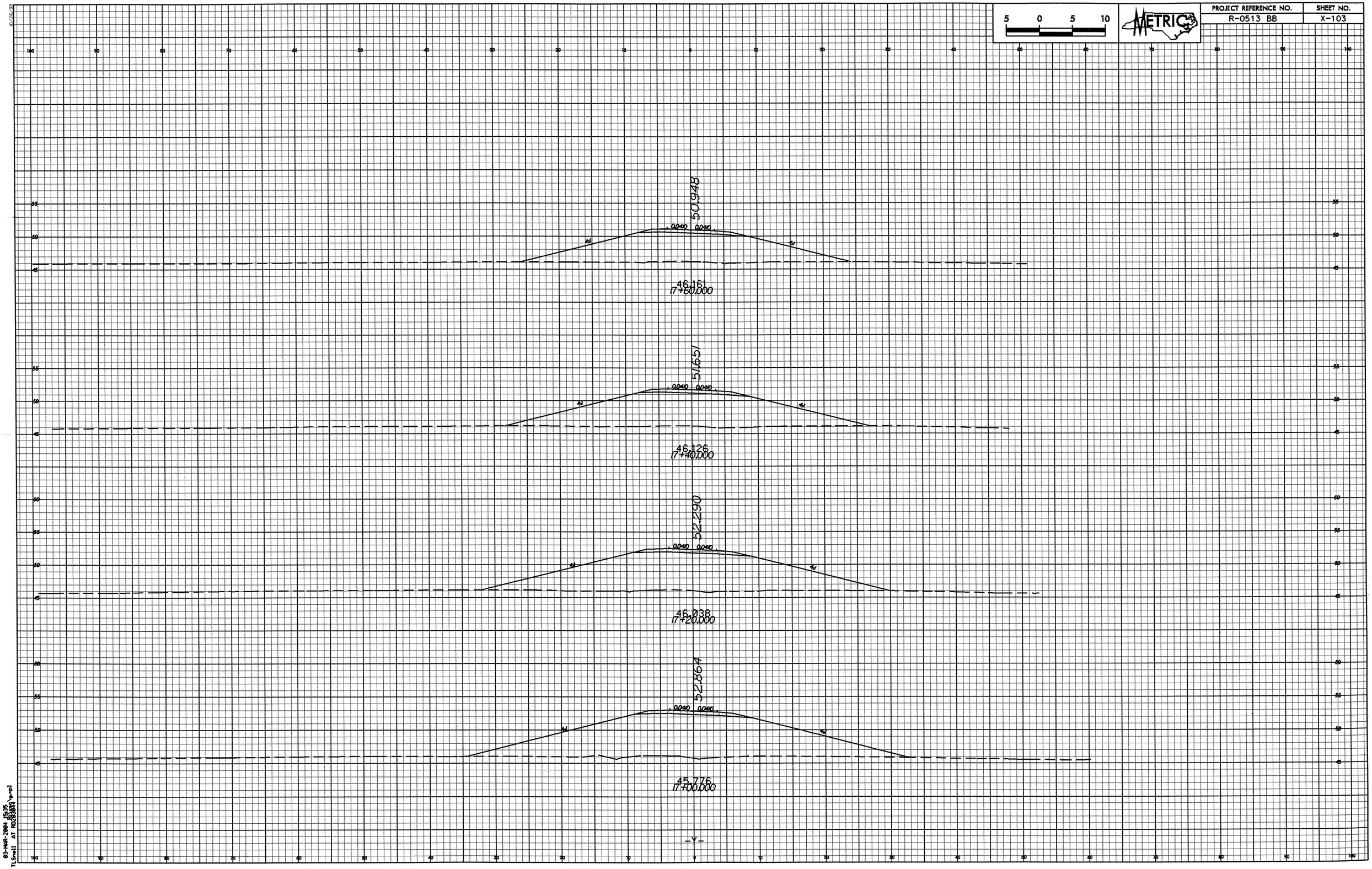
TLSmall AT RD2030 \y-xpl

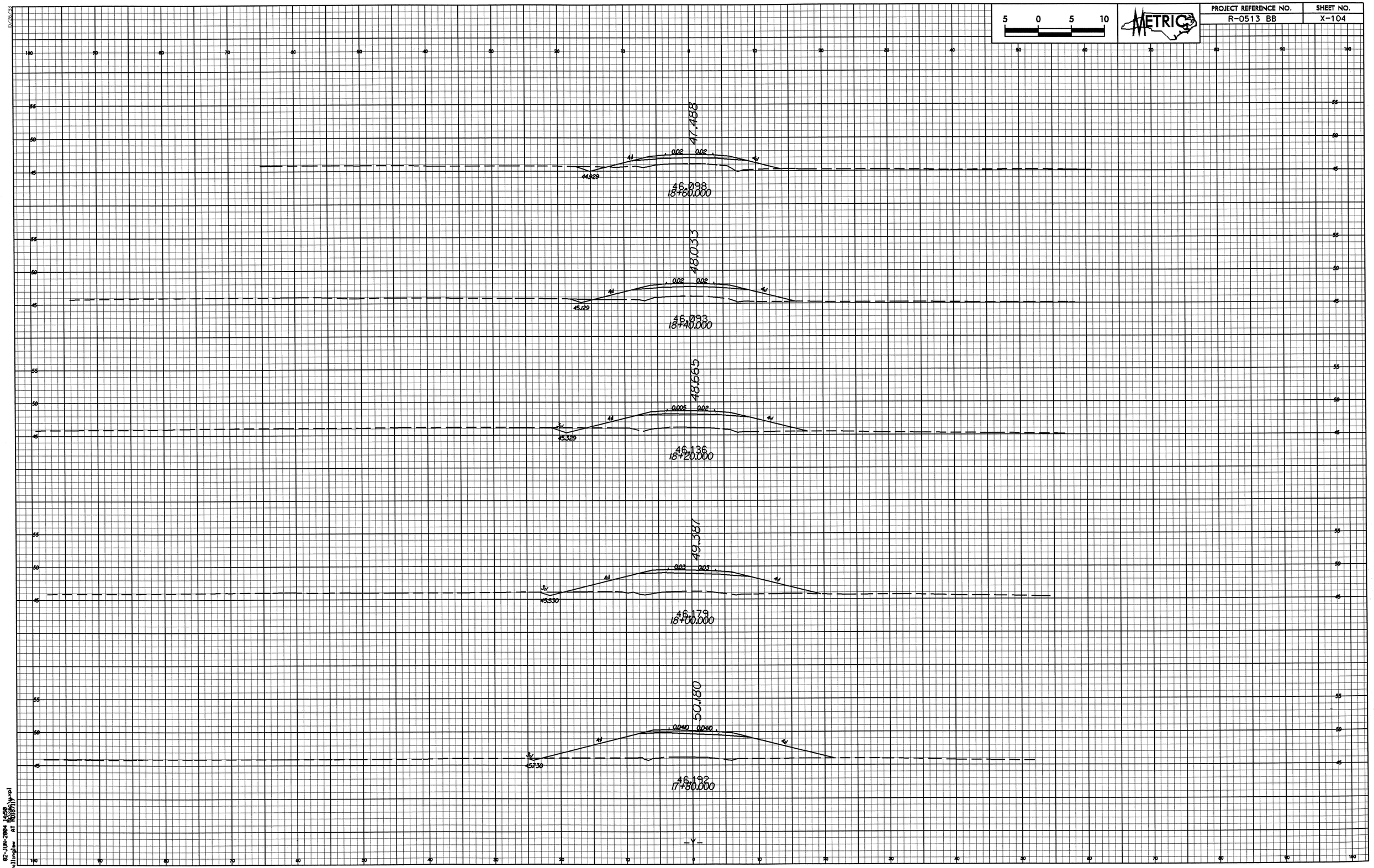
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-102



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-103

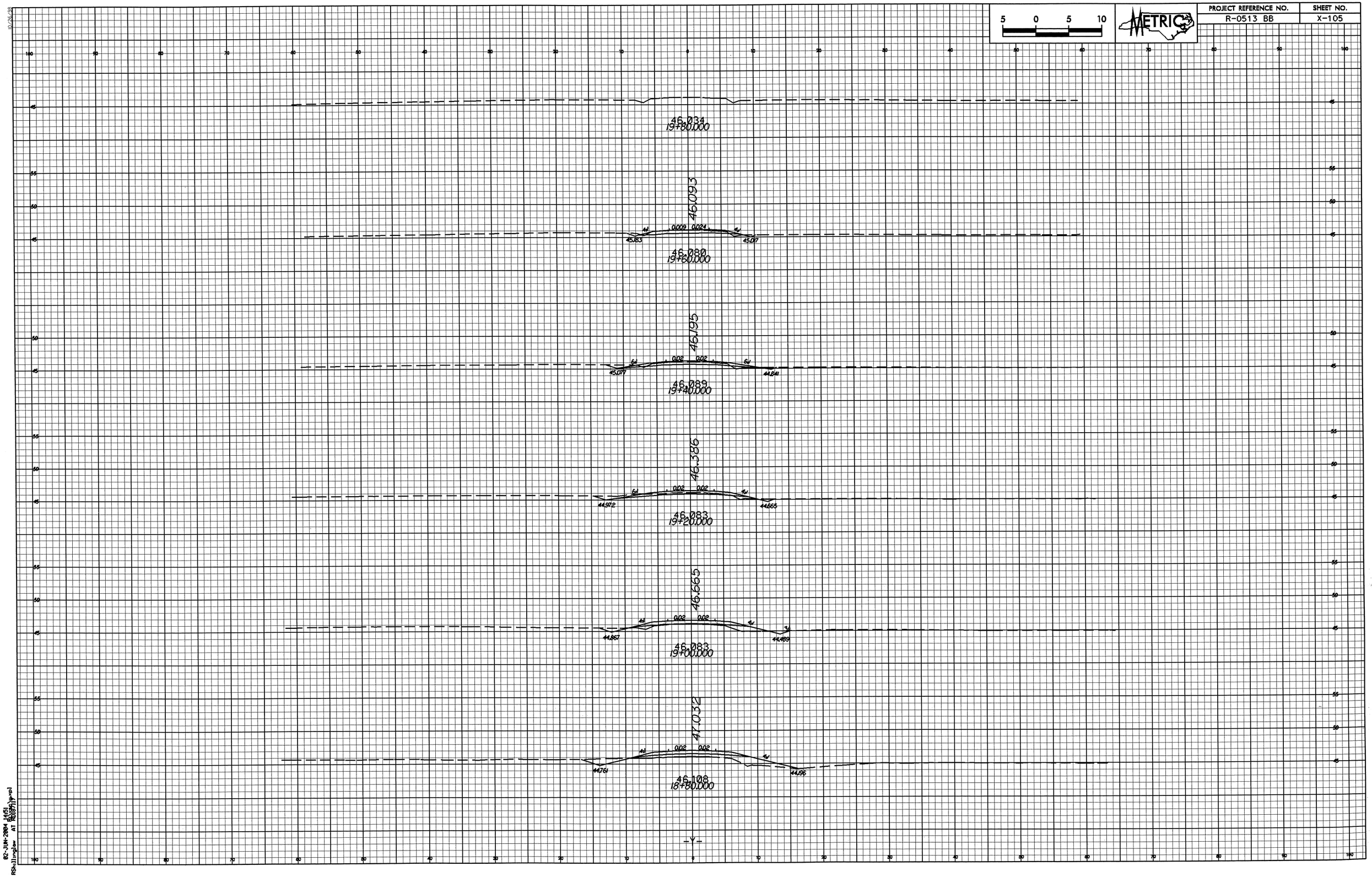


PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-104



02-JUN-2004 14:59
RShillinglaw AT R0187\Y-xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-105



02-JUN-2004 14:51
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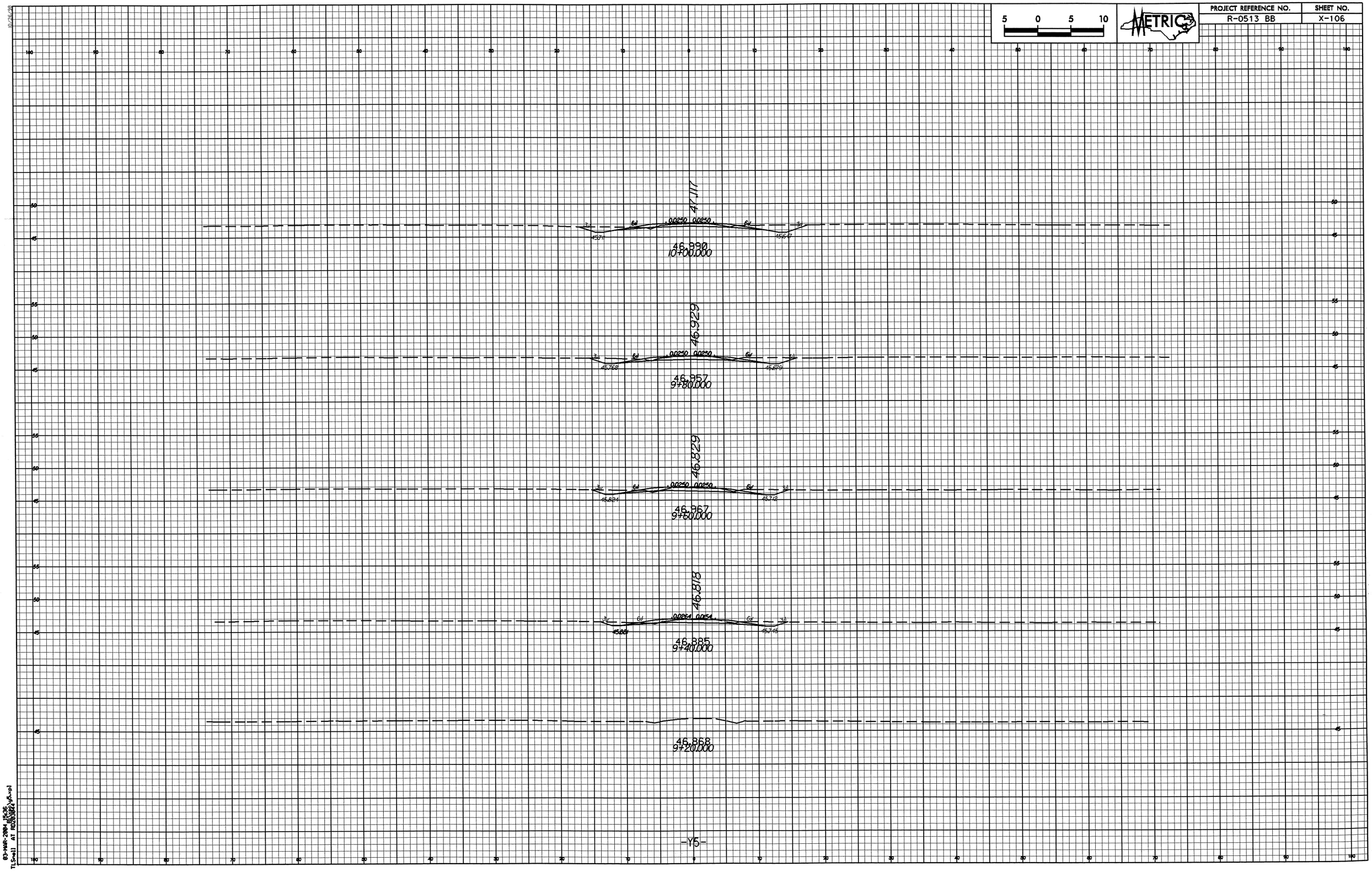
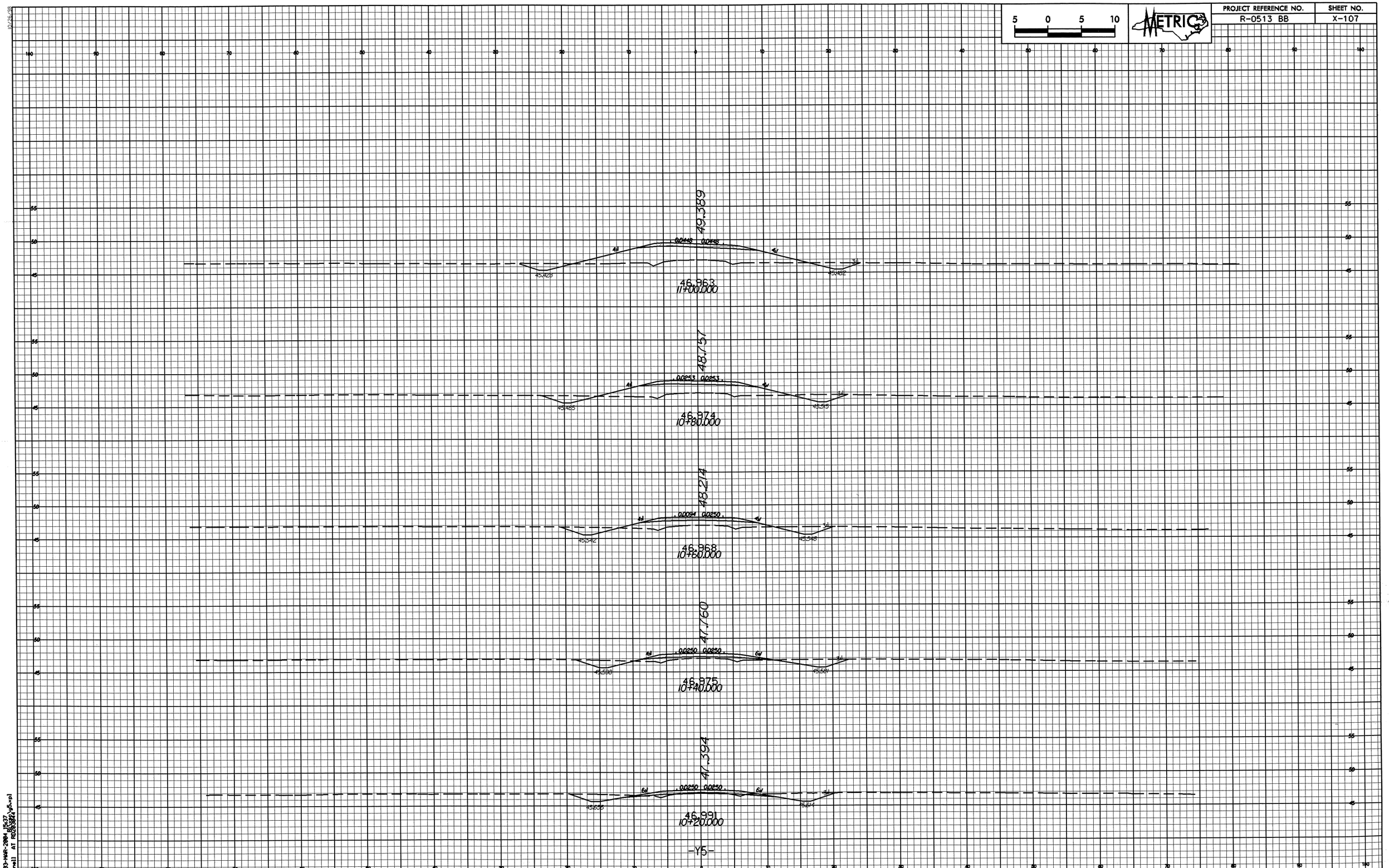
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-106

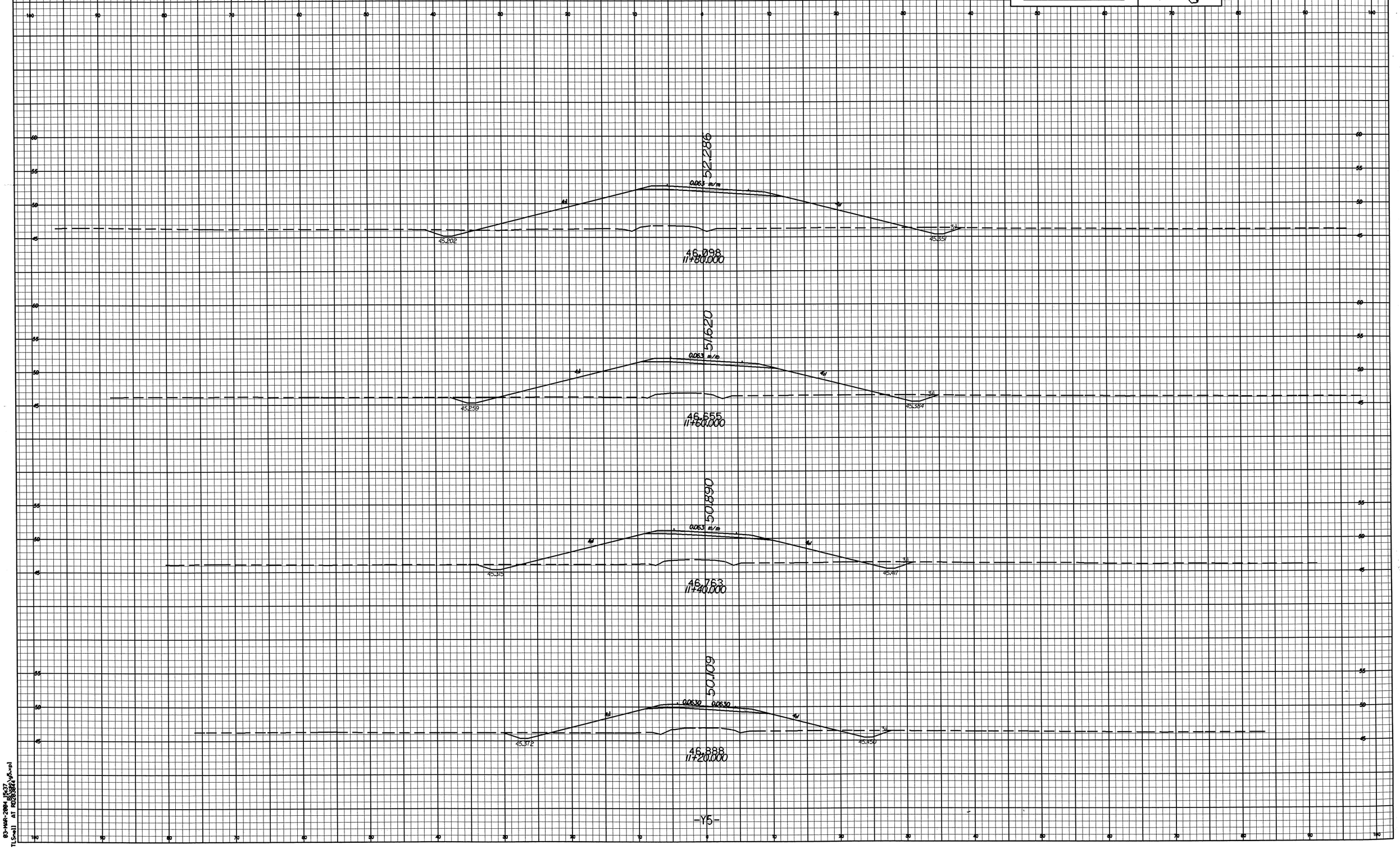


PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-107

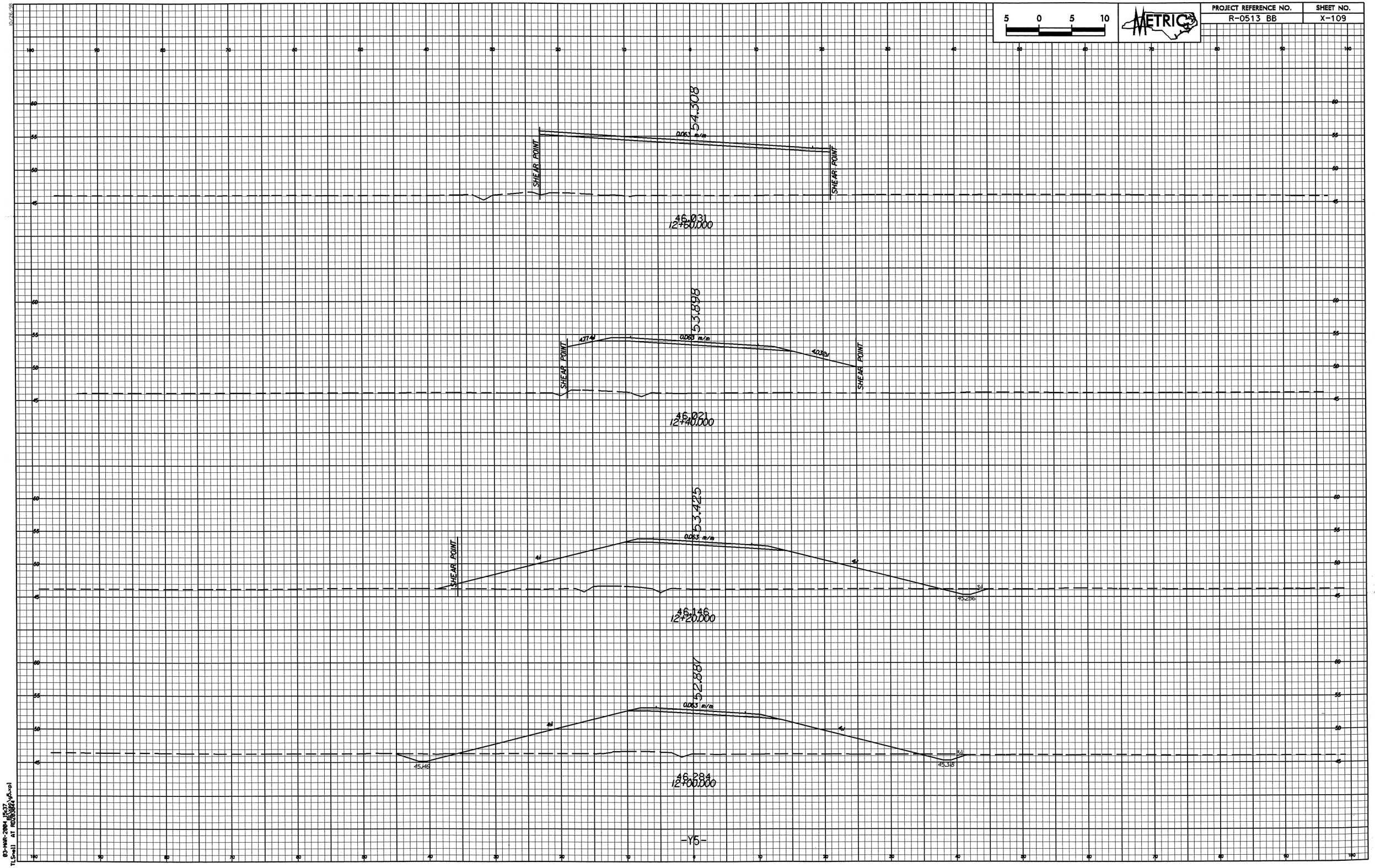


03-MAR-2004 15:37
TLSnell AT RD20.3844 Y5.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-108



PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-109



03-MAR-2004 15:37
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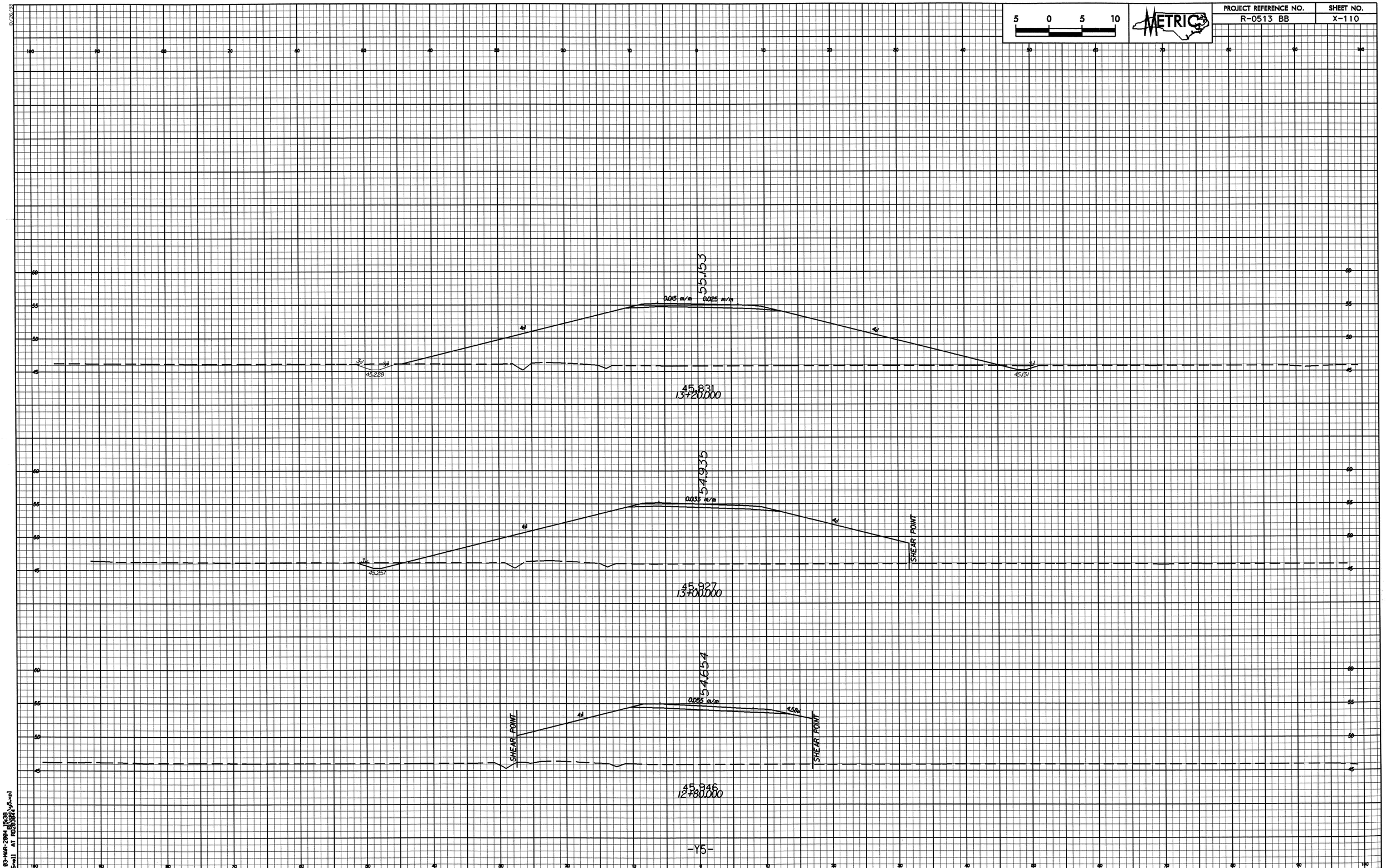
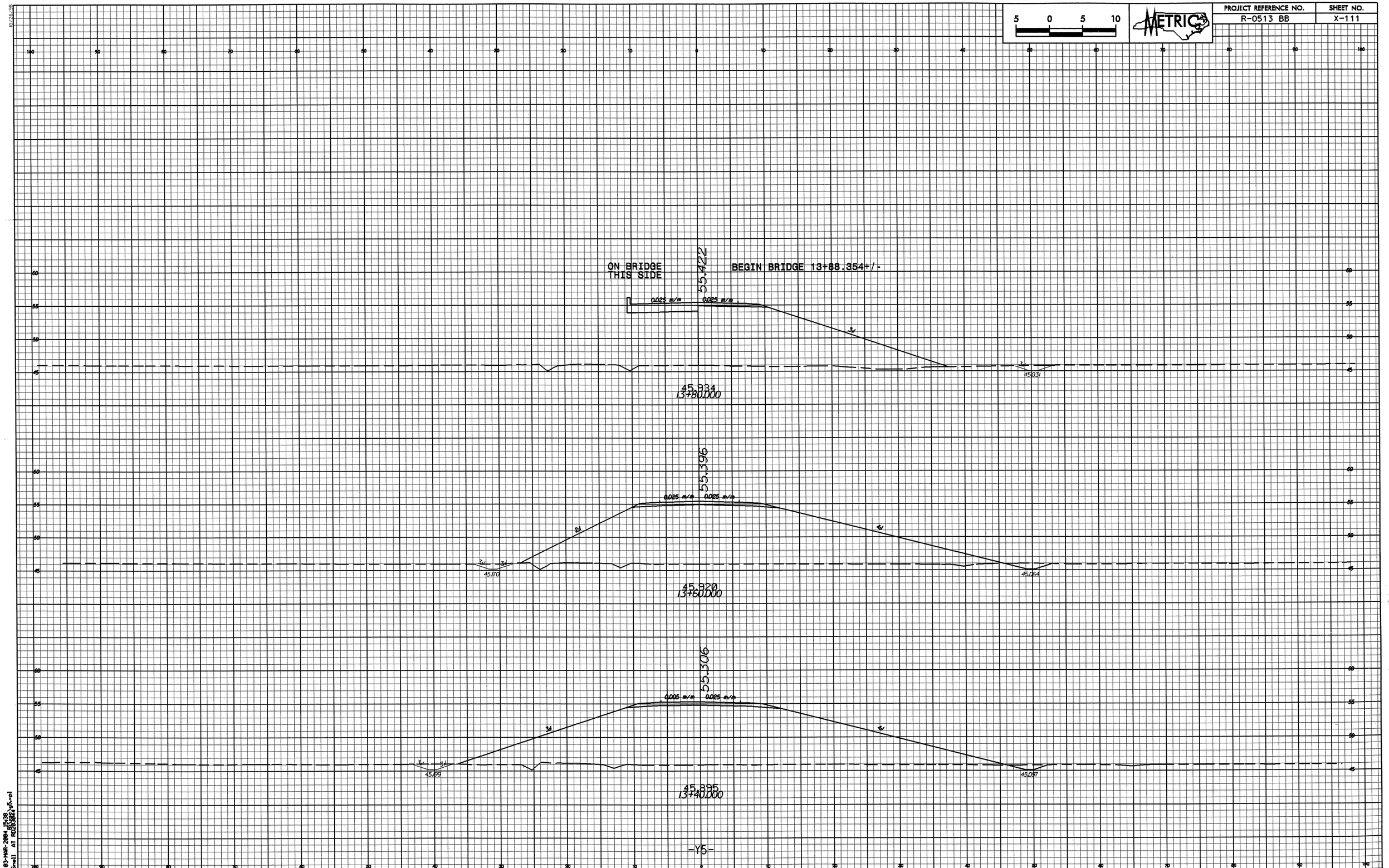
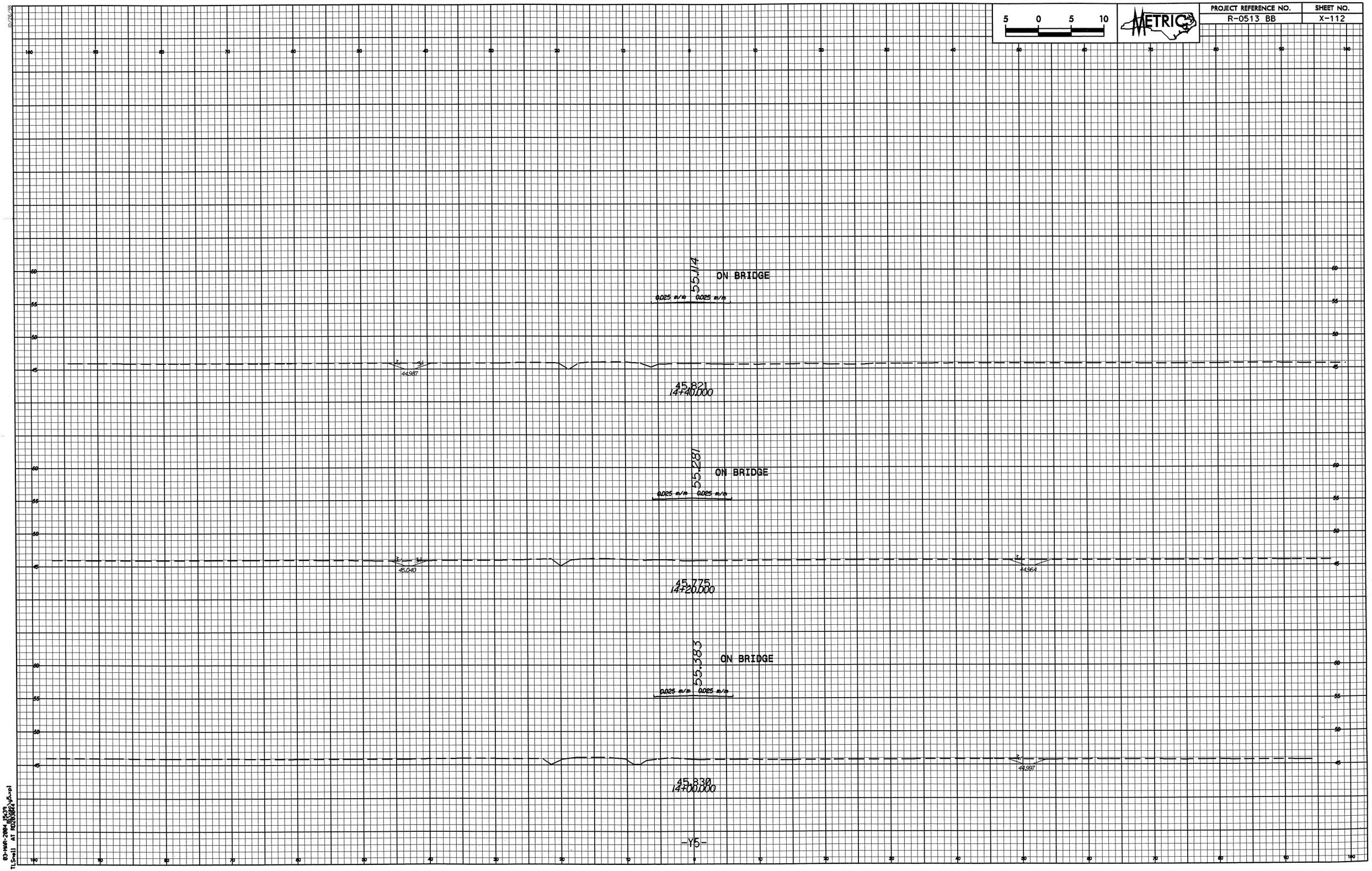
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-110



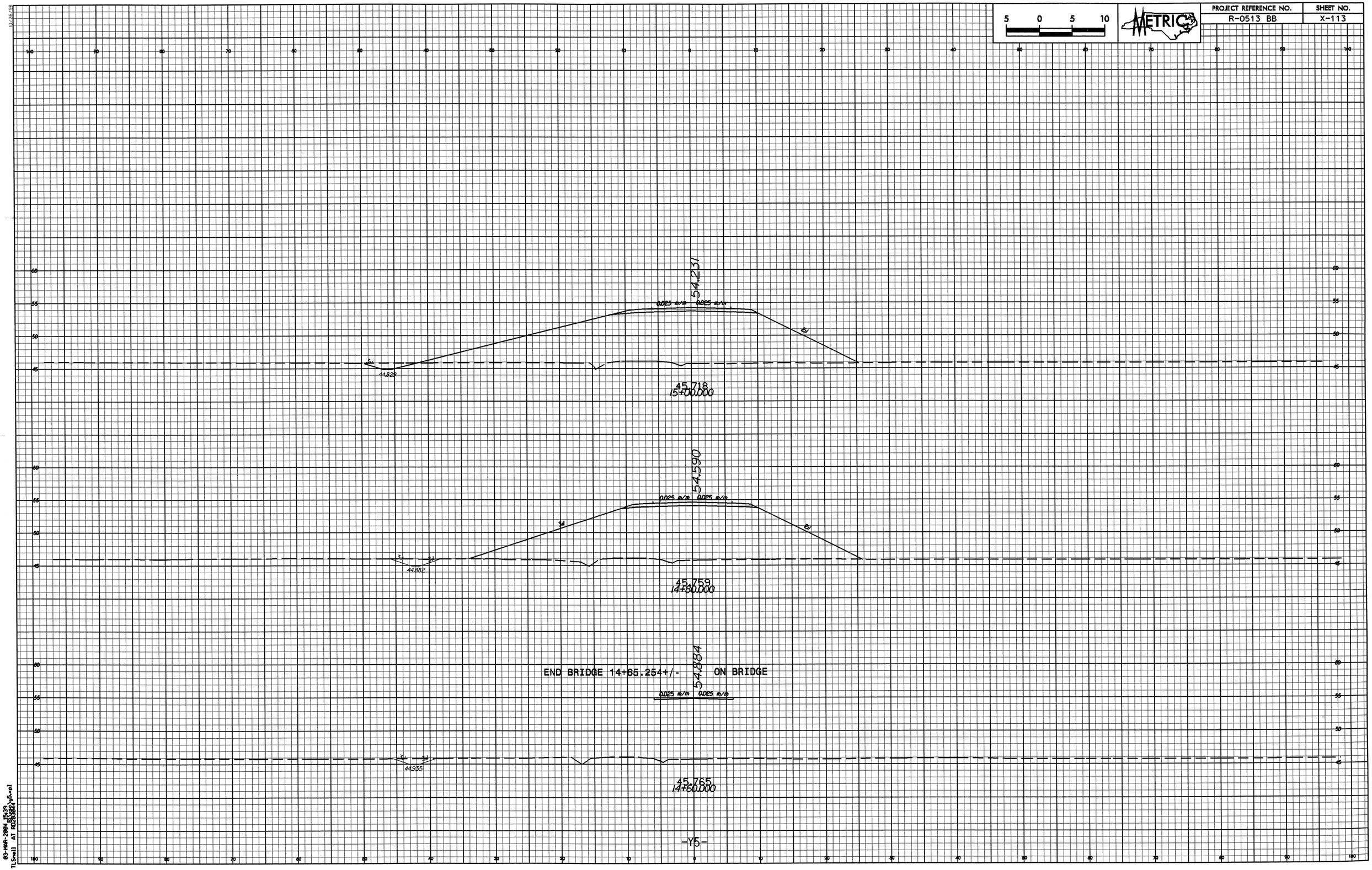
03-MAR-2004 15:38
TLSnell AT RD28384 \y5.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-111

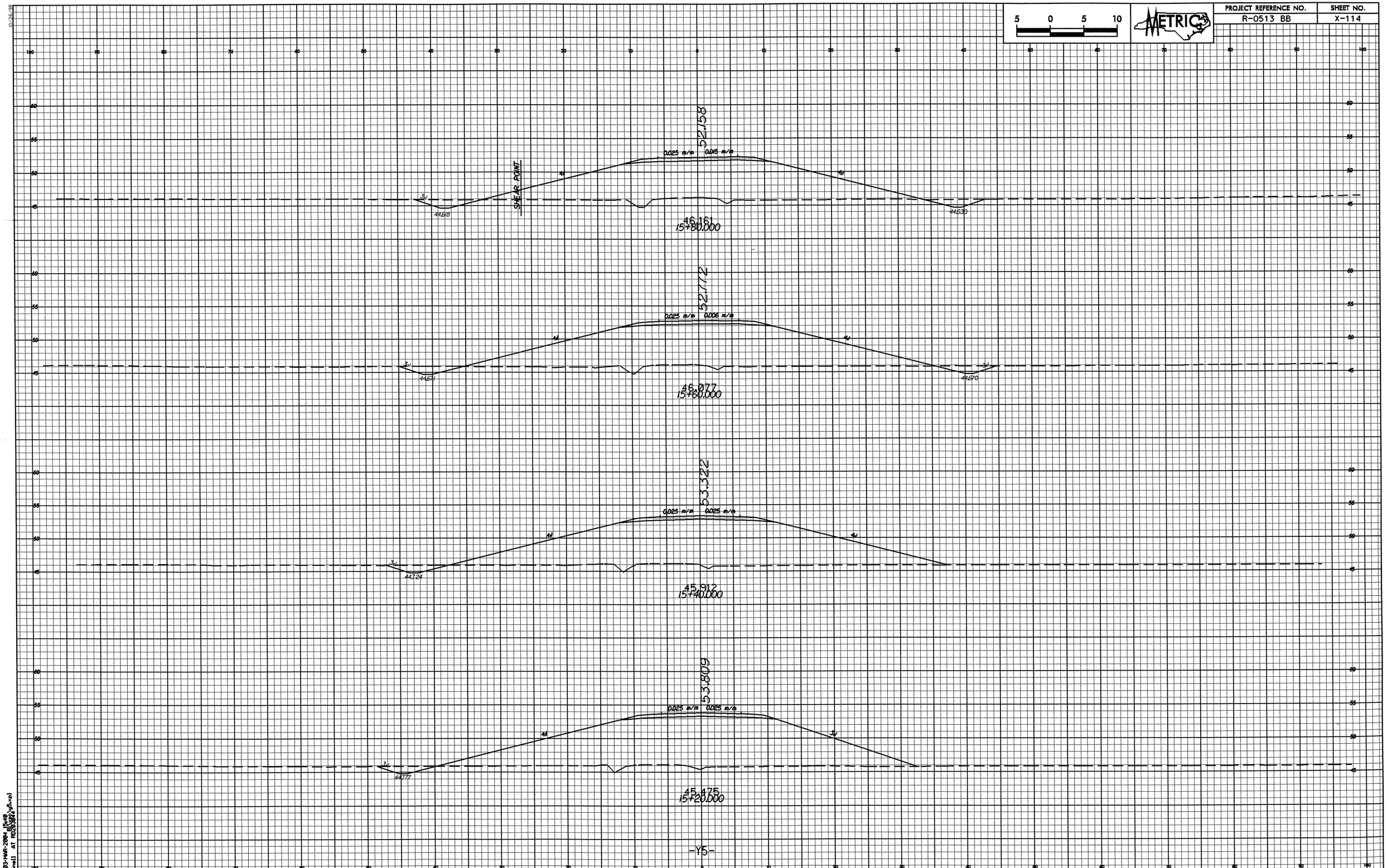




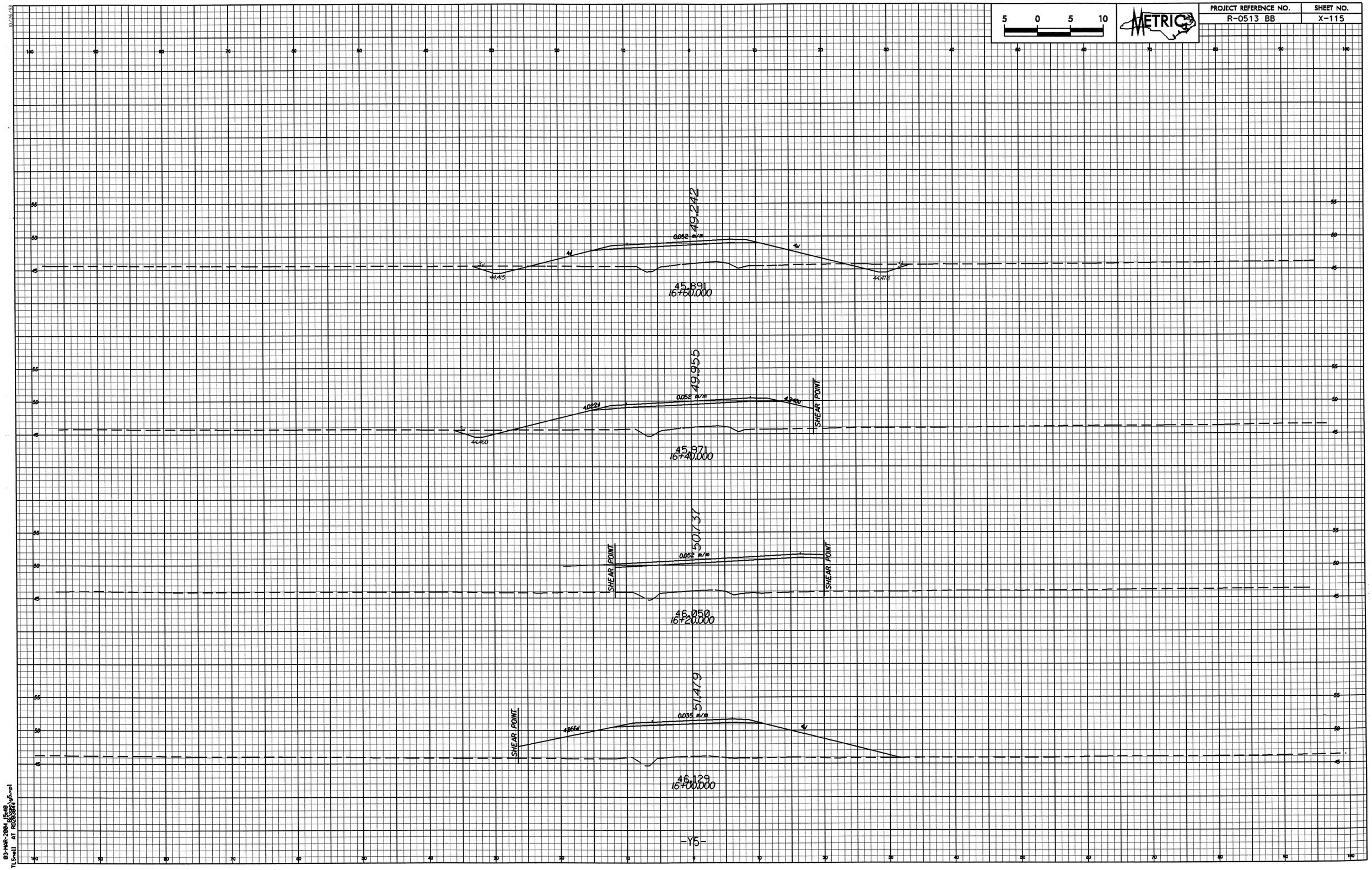
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-112
55.114
ON BRIDGE
0.025 m/m 0.025 m/m
44.987
45.821
14+40.000
55.281
ON BRIDGE
0.025 m/m 0.025 m/m
45.040
44.964
45.775
14+20.000
55.383
ON BRIDGE
0.025 m/m 0.025 m/m
44.997
45.830
14+00.000
-Y5-



PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-113
METRIC
5 0 5 10
54.231
0.025 m/m
0.025 m/m
44.829
45.718
15+00.000
54.590
0.025 m/m
0.025 m/m
44.882
45.759
14+80.000
54.884
END BRIDGE 14+65.254+/- ON BRIDGE
0.025 m/m
0.025 m/m
44.935
45.765
14+60.000
-Y5-

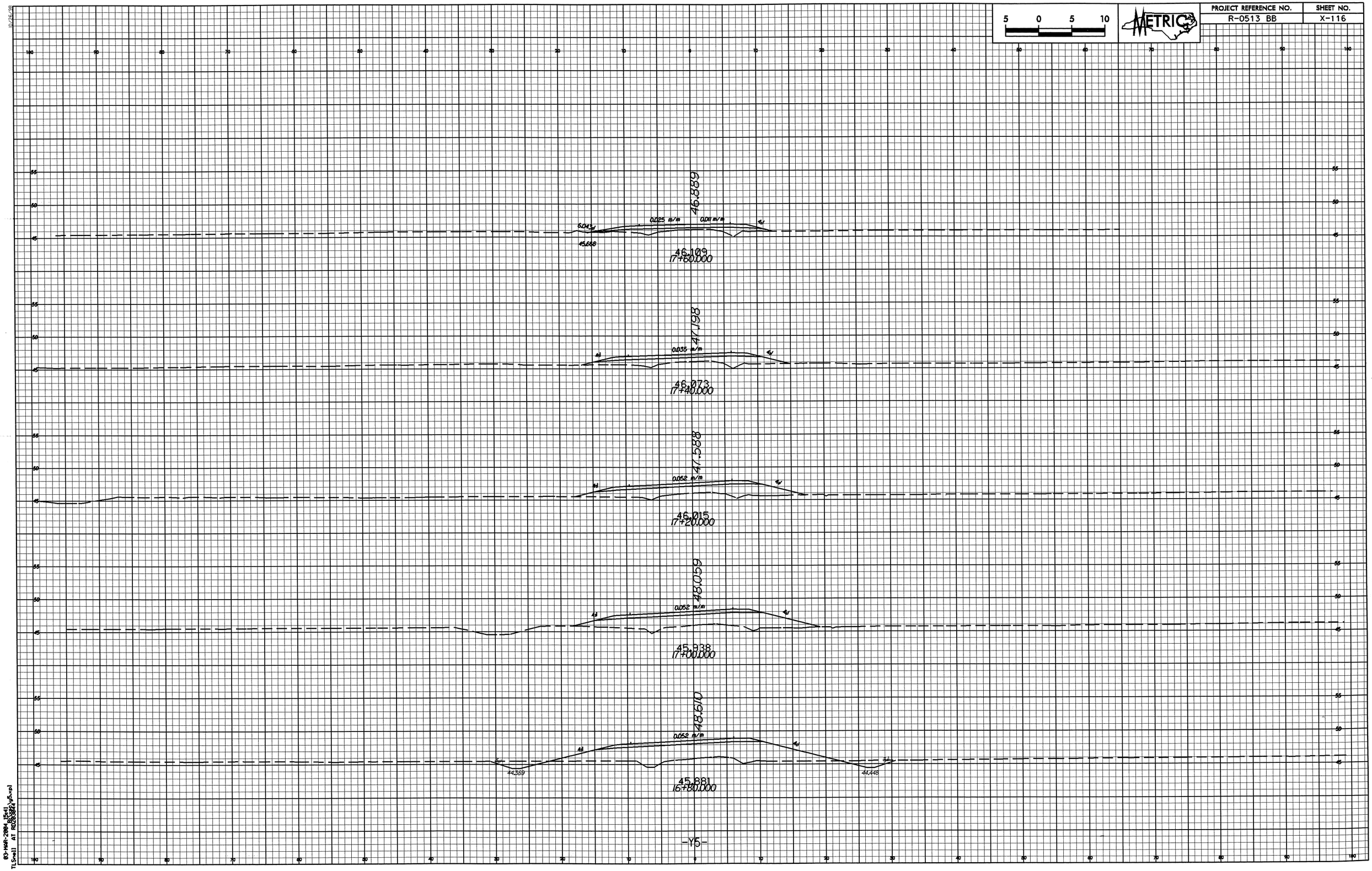


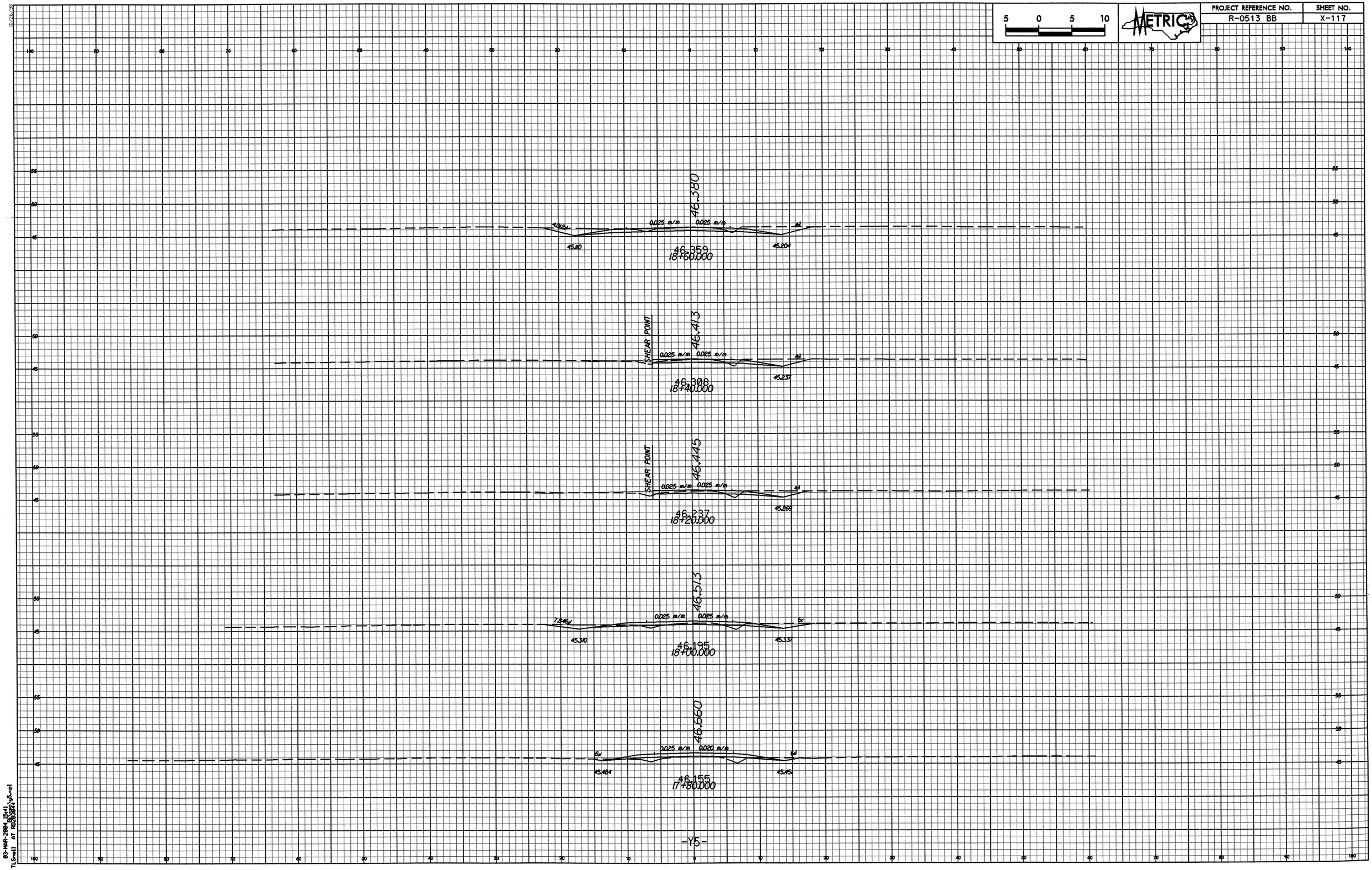
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-114
52.158
0.025 m/m
0.015 m/m
SHEAR POINT
44.618
44.630
46.161
15+80.000
52.772
0.025 m/m
0.006 m/m
44.671
44.670
46.077
15+60.000
53.322
0.025 m/m
0.025 m/m
44.724
45.912
15+40.000
53.809
0.025 m/m
0.025 m/m
44.777
45.475
15+20.000
-Y5-



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-115
49.242
0.052 m/m
4:1
3:1
44.415
44.478
45.891
16+60.000
49.955
0.052 m/m
4.022:1
4.246:1
SHEAR POINT
44.460
45.971
16+40.000
50.737
0.052 m/m
SHEAR POINT
SHEAR POINT
46.050
16+20.000
51.479
0.035 m/m
4.866:1
4:1
SHEAR POINT
46.129
16+00.000
-Y5-

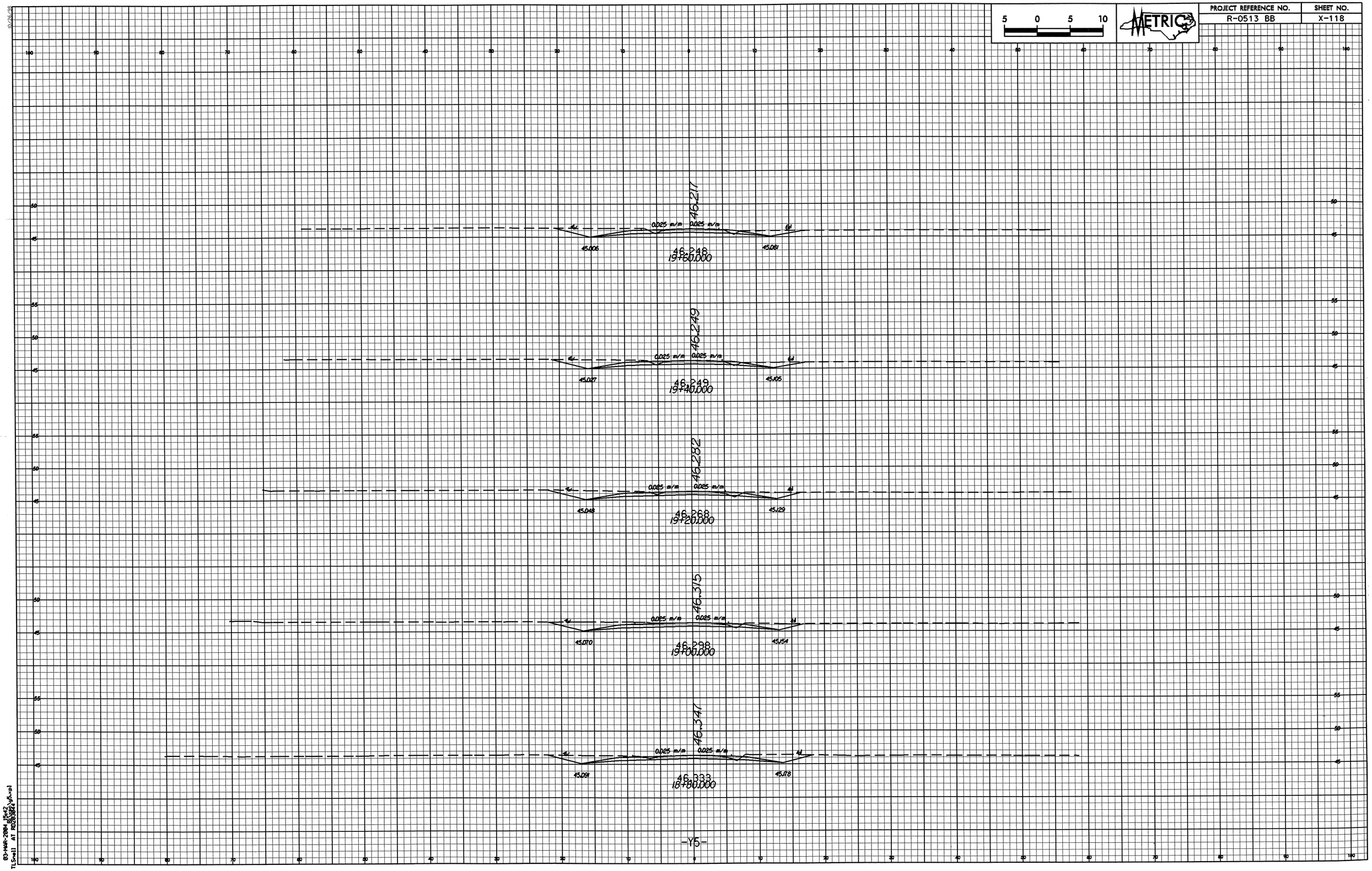
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-116





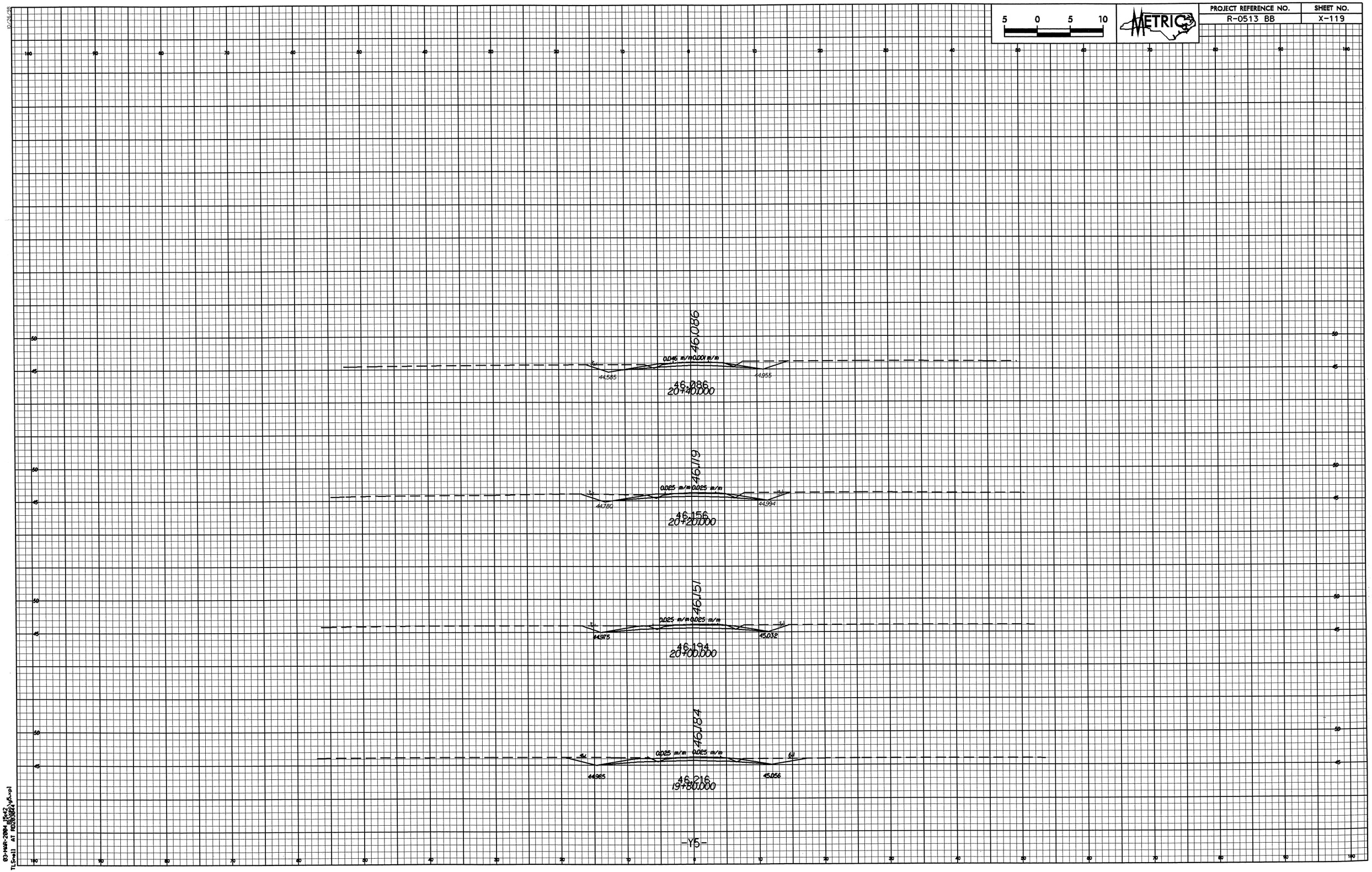
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-117
46.380
0.025 m/m
0.025 m/m
45.110
45.204
46.359
18+60.000
SHEAR POINT
46.413
0.025 m/m
0.025 m/m
45.237
46.308
18+40.000
SHEAR POINT
46.445
0.025 m/m
0.025 m/m
45.269
46.237
18+20.000
46.513
0.025 m/m
0.025 m/m
45.310
45.337
46.195
18+00.000
46.660
0.025 m/m
0.020 m/m
45.484
45.451
46.155
17+80.000
-Y5-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-118



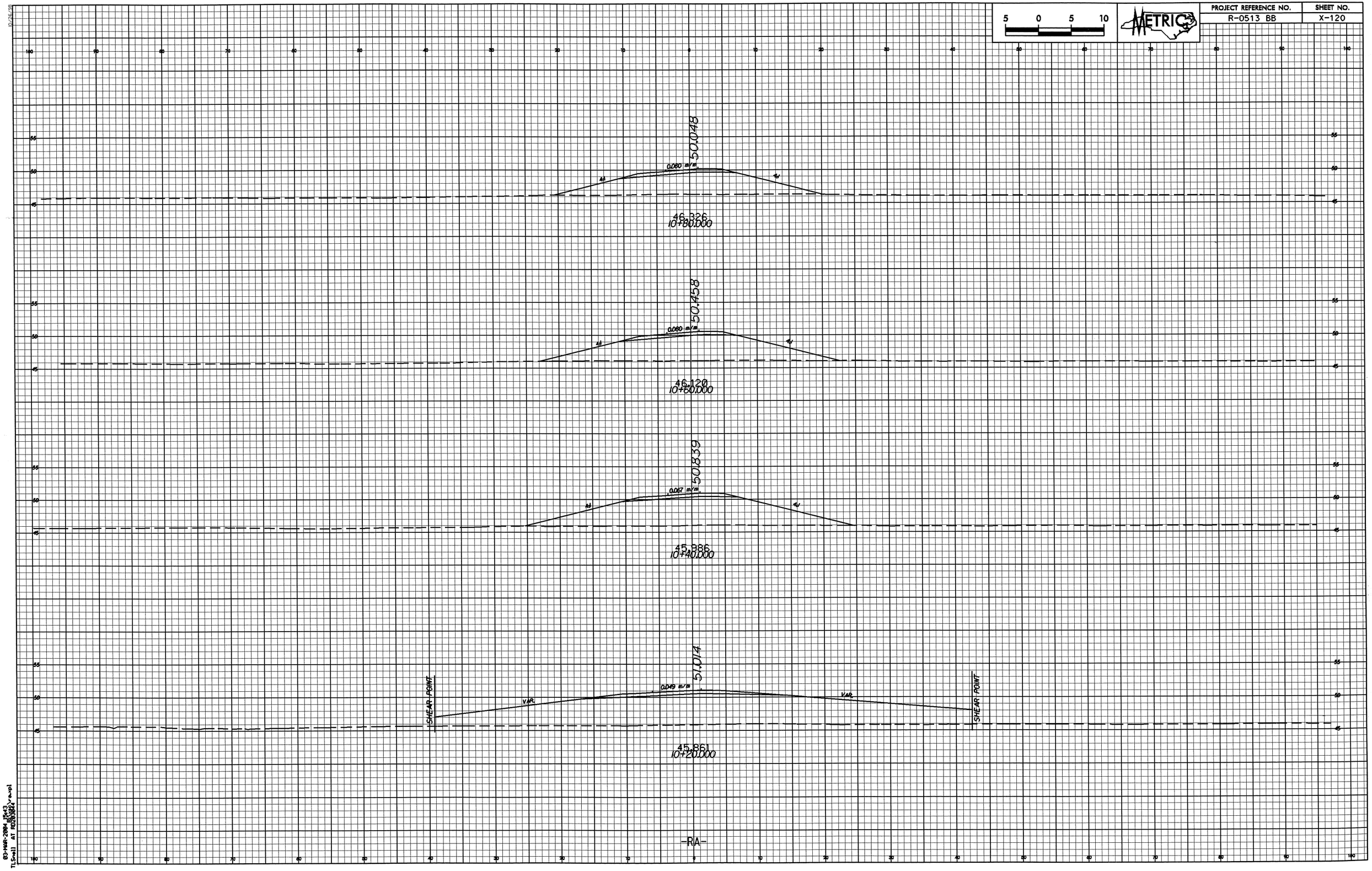
03-MAR-2004 15:42
TLSnell AT RD2838444\y5.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-119

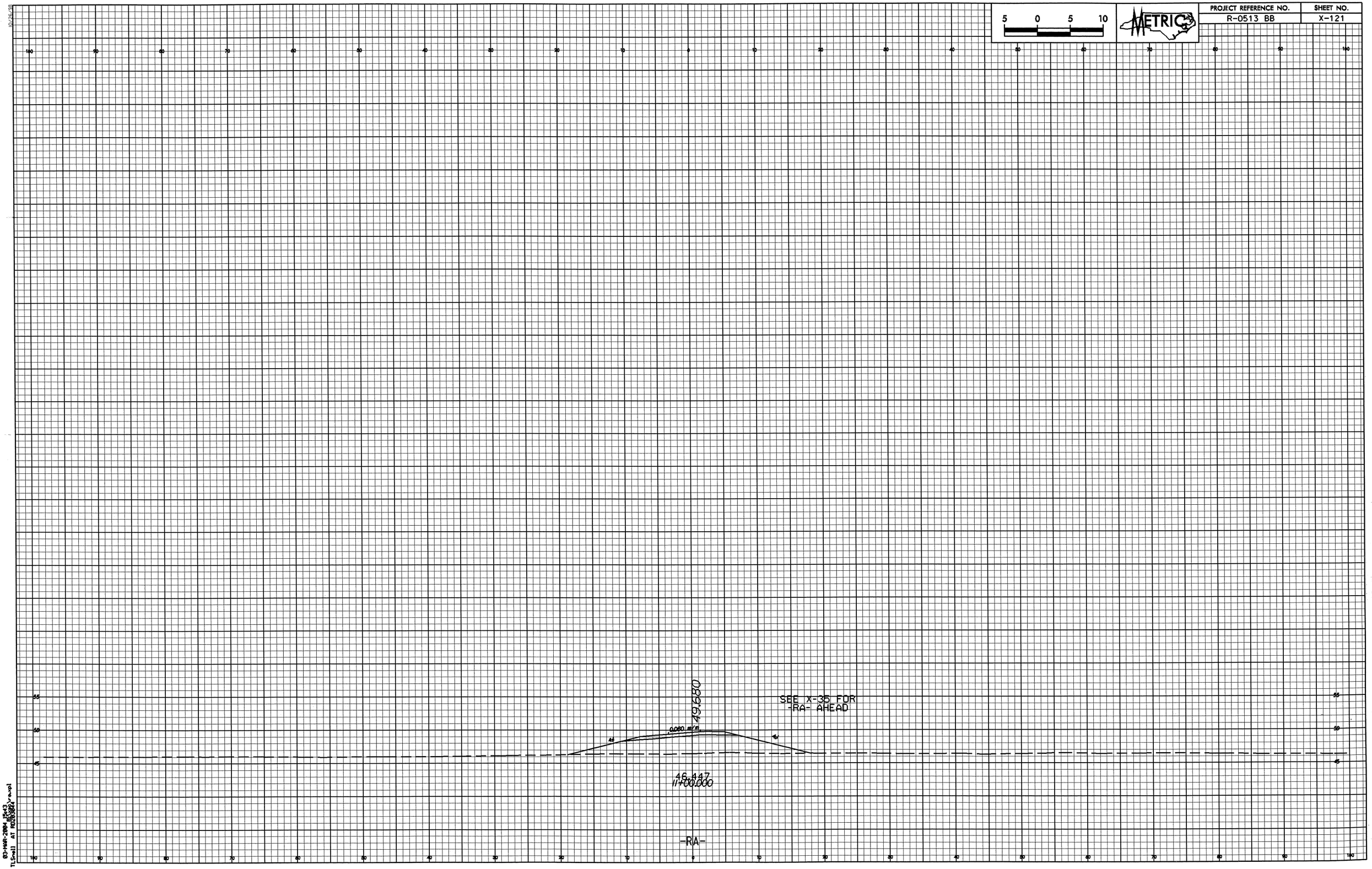


03-MAR-2004 15:42
TLSnell AT RD28384 v5.xpl

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-120

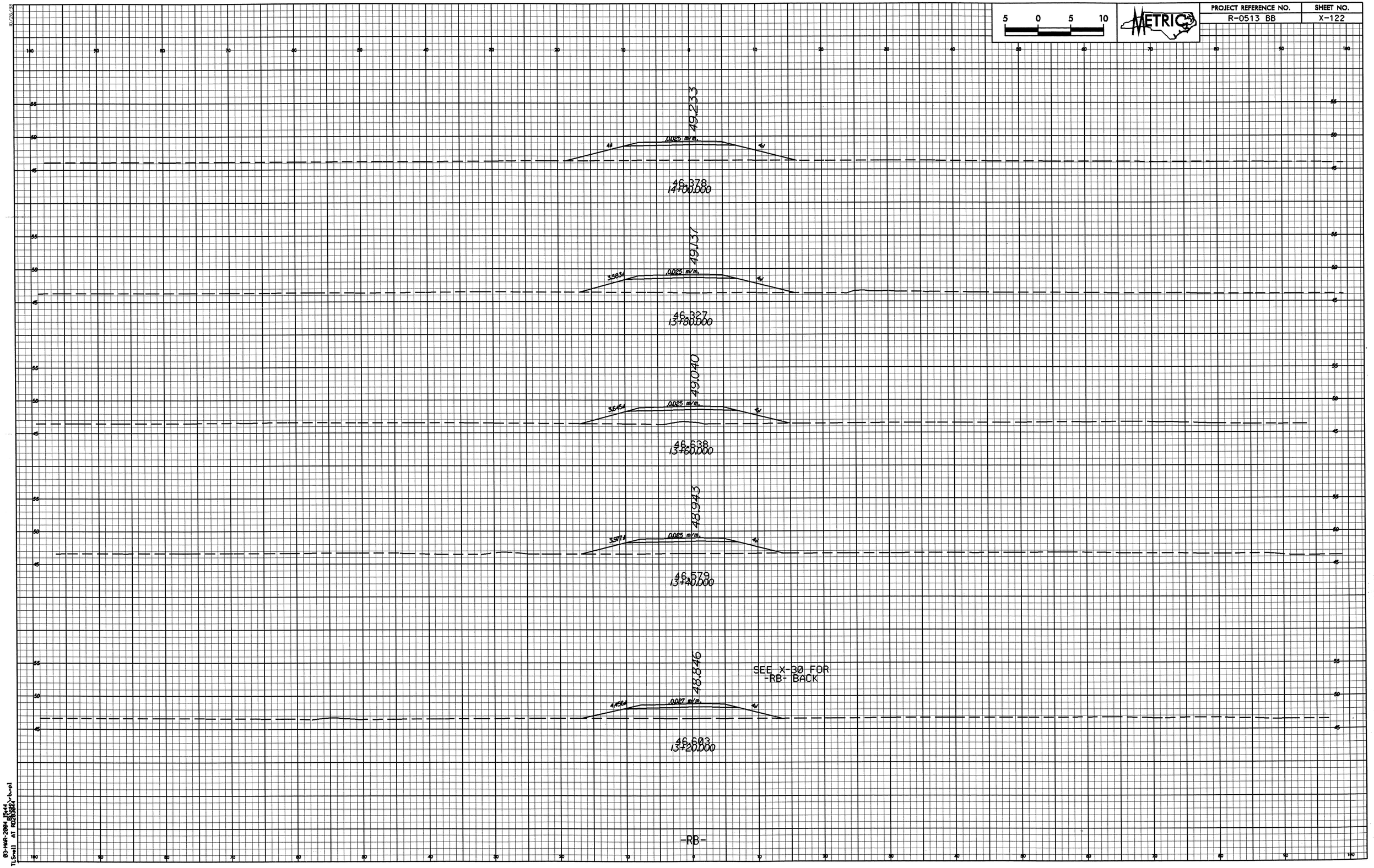


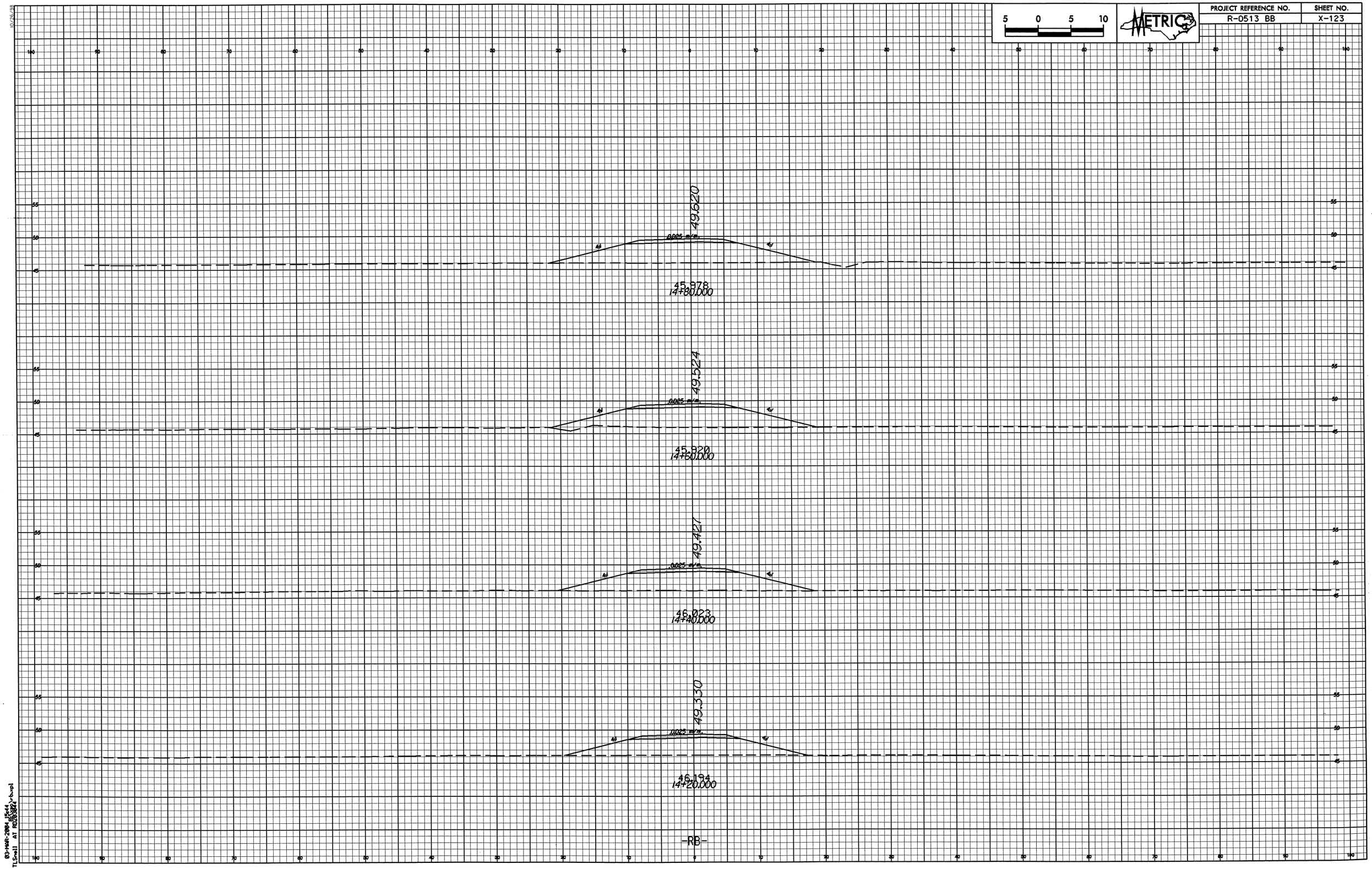
03-MAR-2004 15:43
TLSmall AT R2513BB4(r-a-pl



5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-121
49.680
0.060 m/m
SEE X-35 FOR
-RA- AHEAD
46.447
11+00.000
-RA-

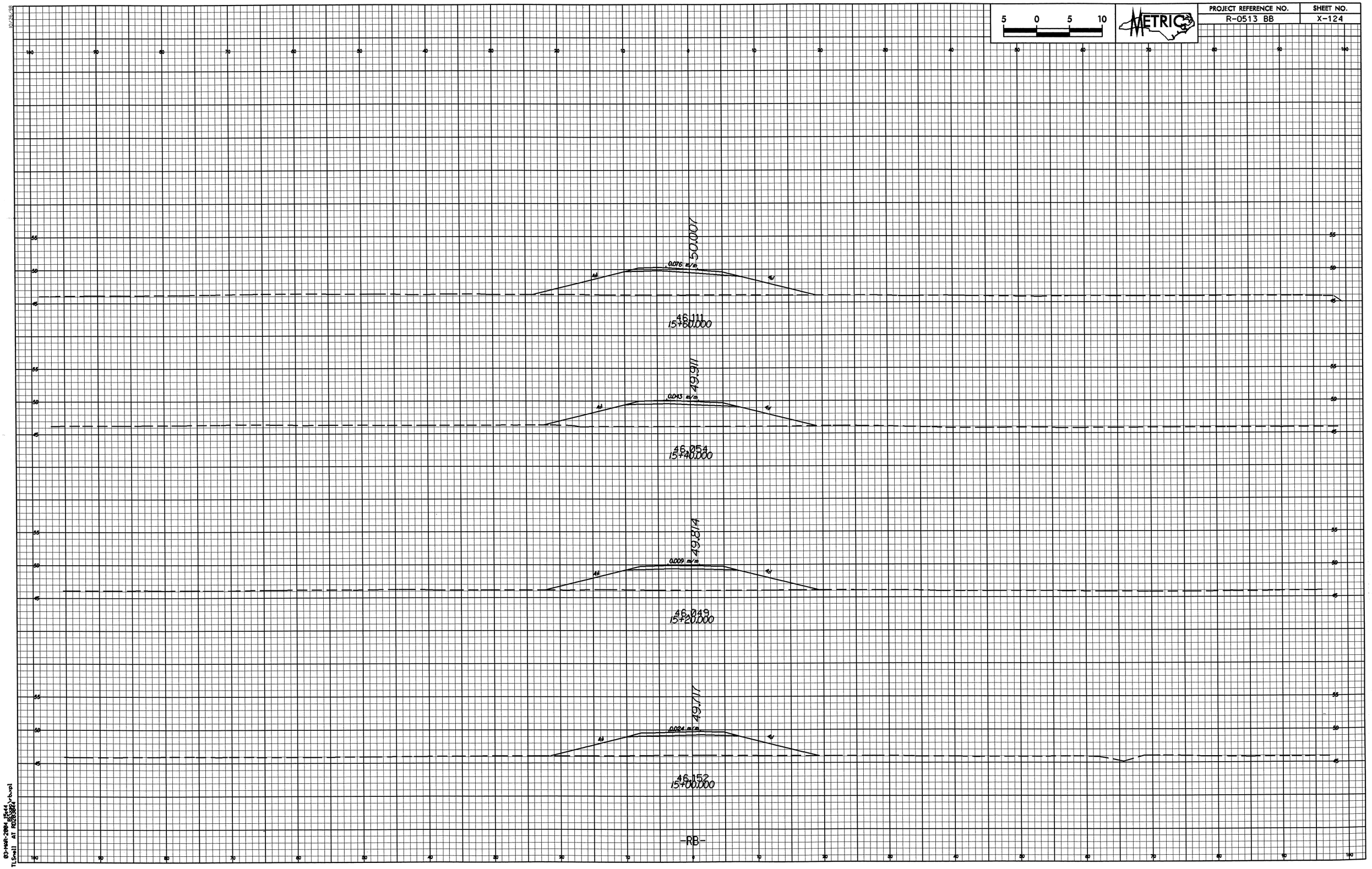
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-122

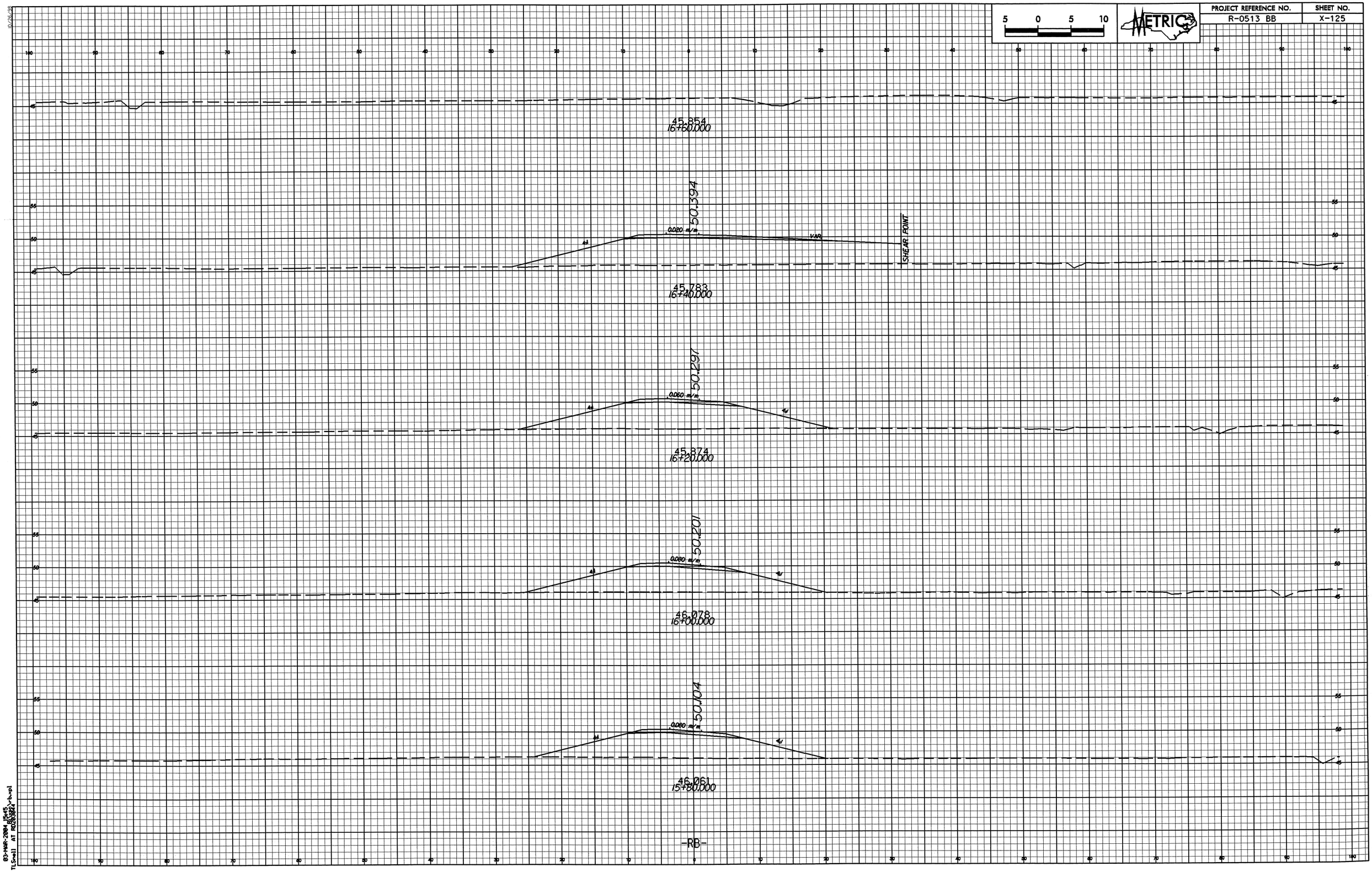




5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-123
49.620
0.025 m/m
4:1
4:1
45.978
14+80.000
49.524
0.025 m/m
4:1
4:1
45.920
14+60.000
49.427
0.025 m/m
4:1
4:1
46.023
14+40.000
49.330
0.025 m/m
4:1
4:1
46.194
14+20.000
-RB-

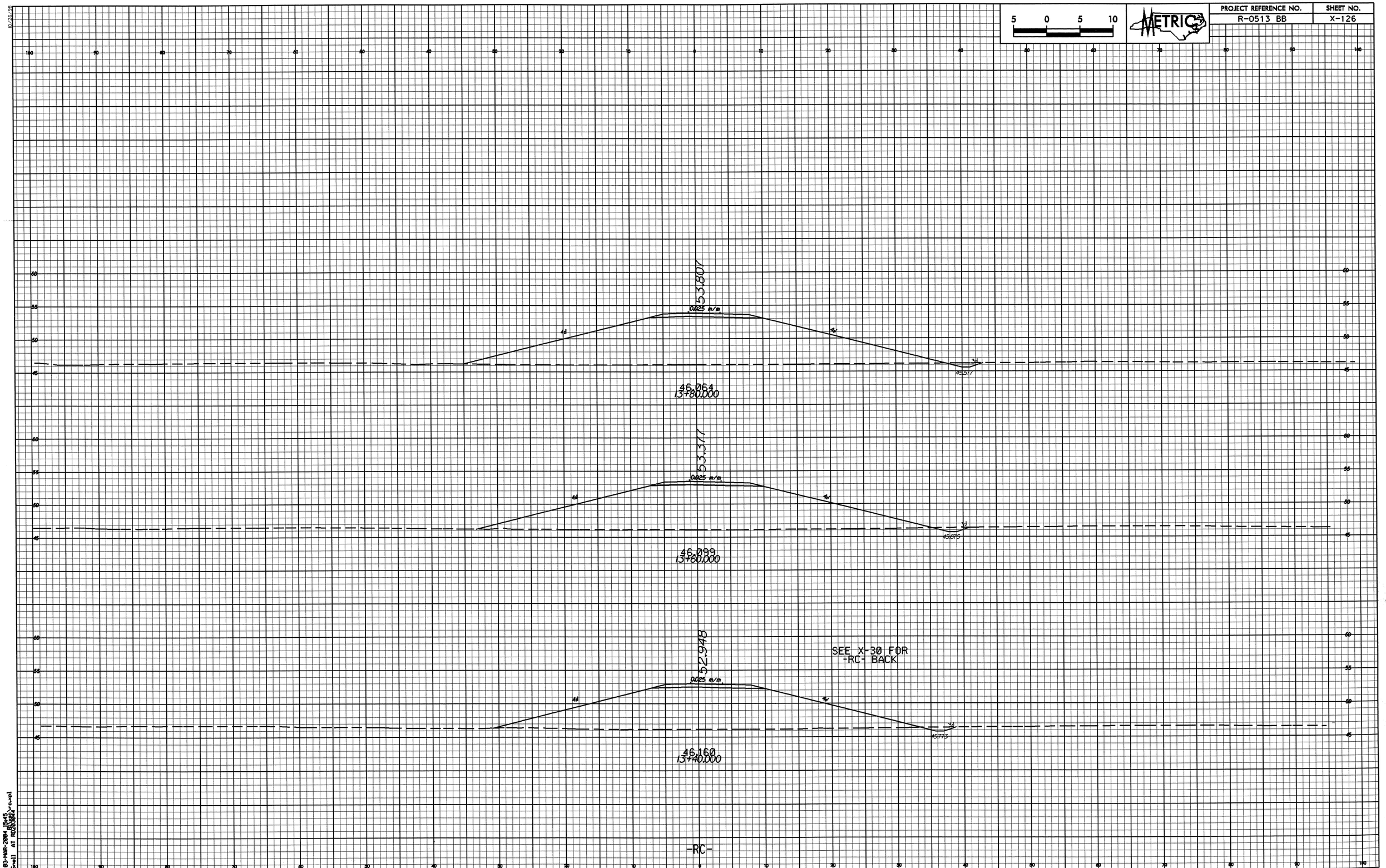
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-124





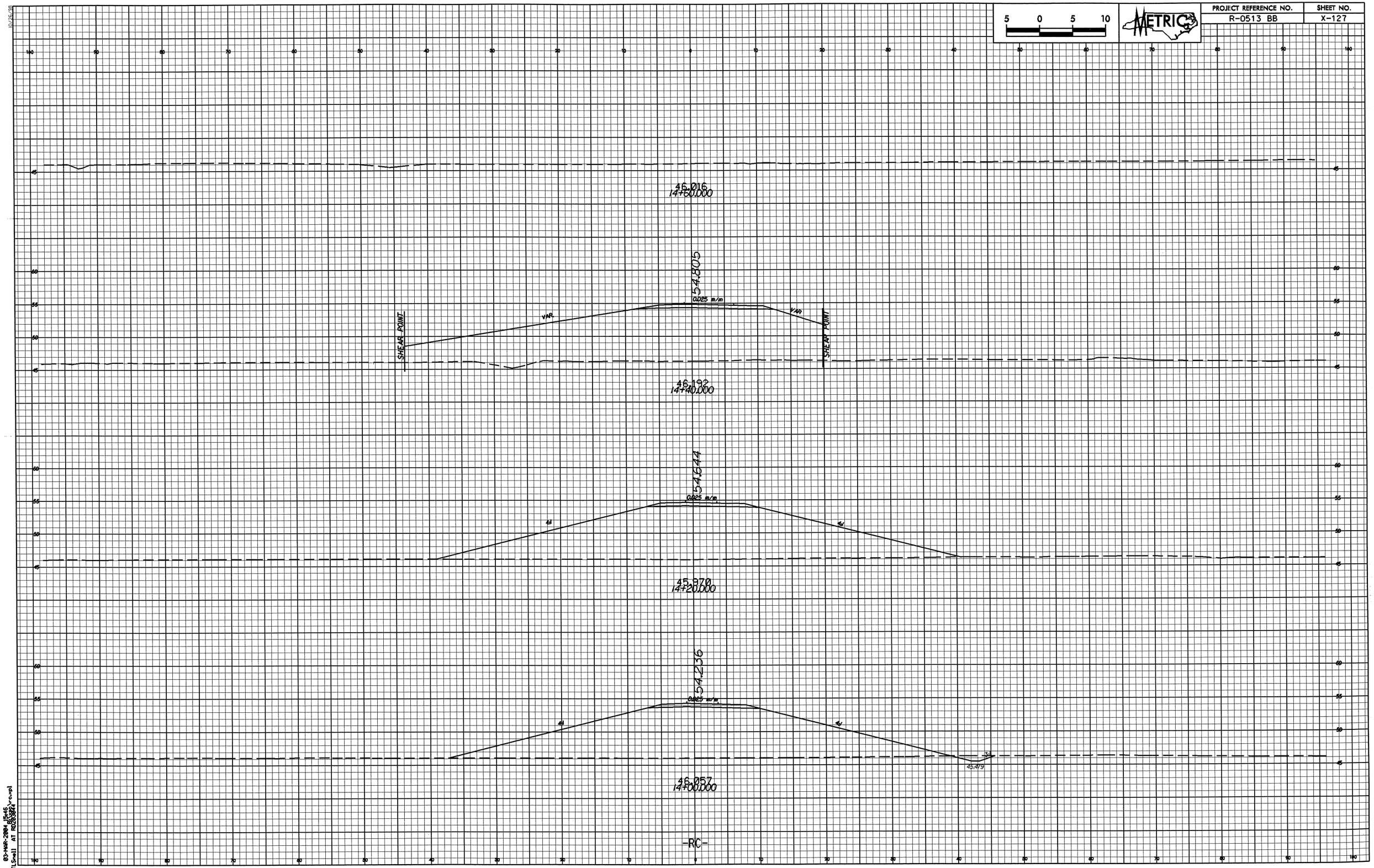
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-125
45.854
16+60.000
50.394
0.020 m/m
VAR
SHEAR POINT
45.783
16+40.000
50.297
0.060 m/m
45.874
16+20.000
50.201
0.060 m/m
46.078
16+00.000
50.104
0.060 m/m
46.061
15+80.000
-RB-

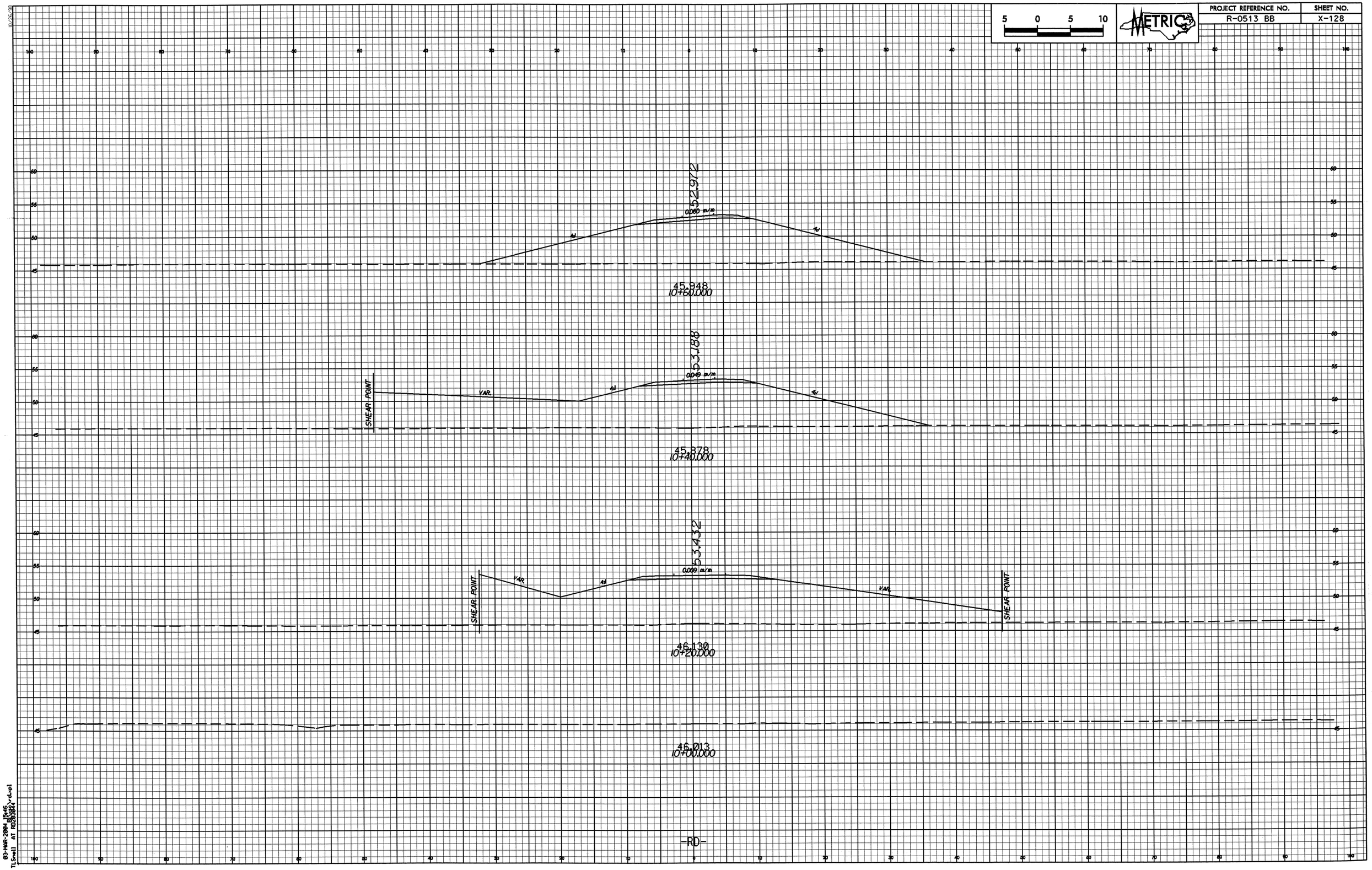
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-126



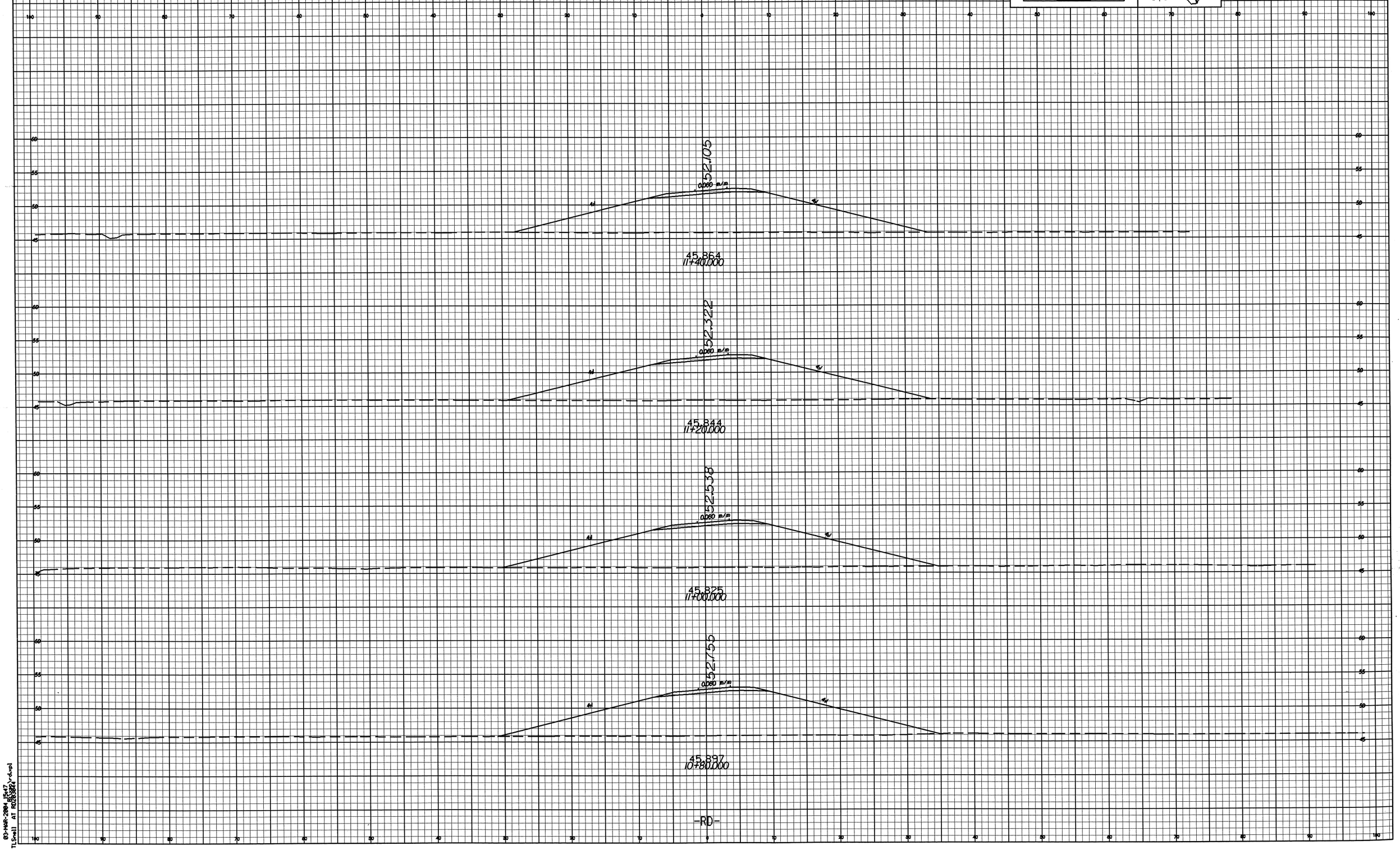
03-MAR-2004 15:45
TLSnell AT RD2B3844

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-127



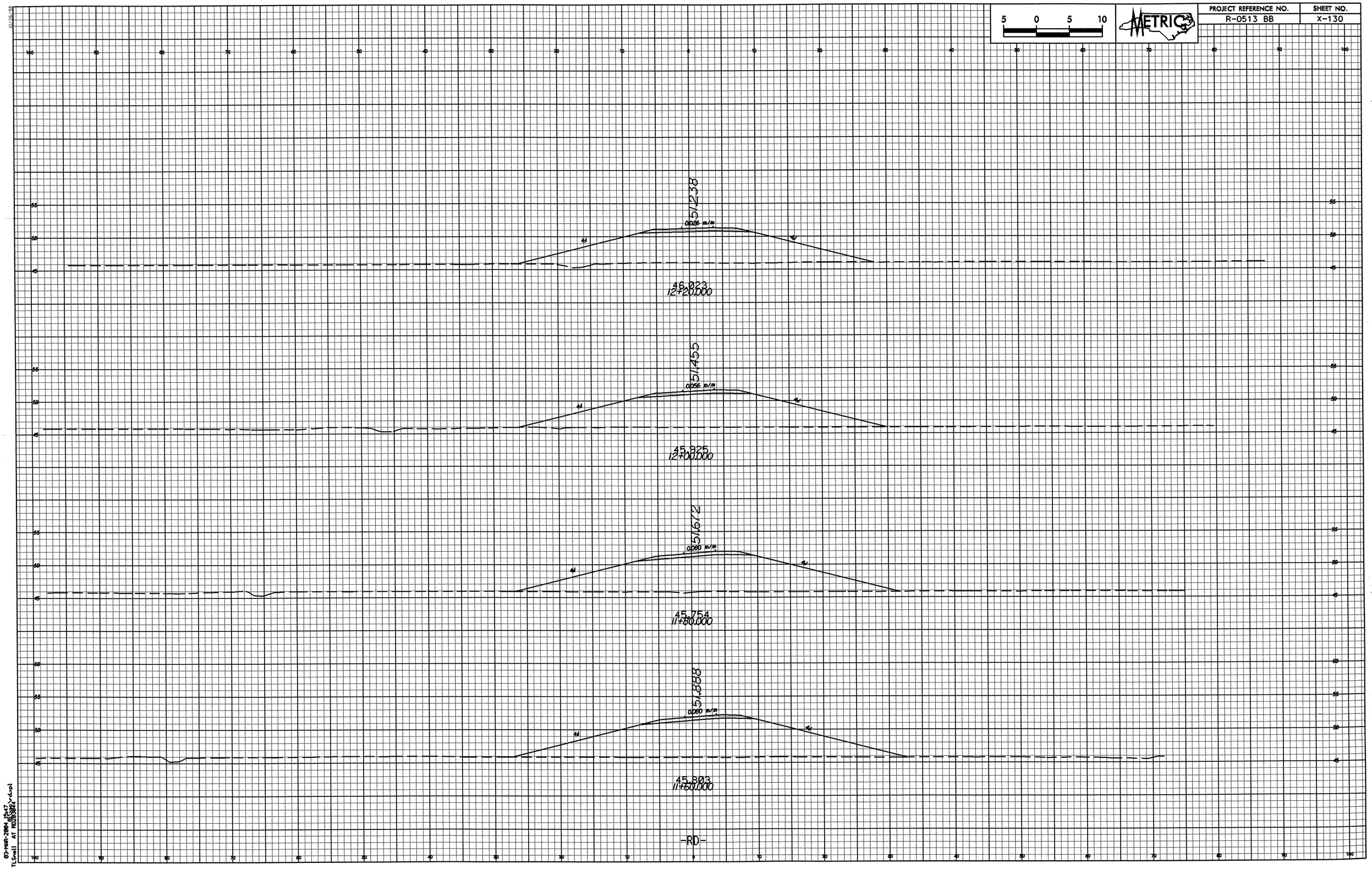


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-128
52.972
0.060 m/m
45.948
10+60.000
53.188
0.049 m/m
VAR.
SHEAR POINT
45.878
10+40.000
53.432
0.009 m/m
VAR.
SHEAR POINT
46.130
10+20.000
46.013
10+00.000
-RD-

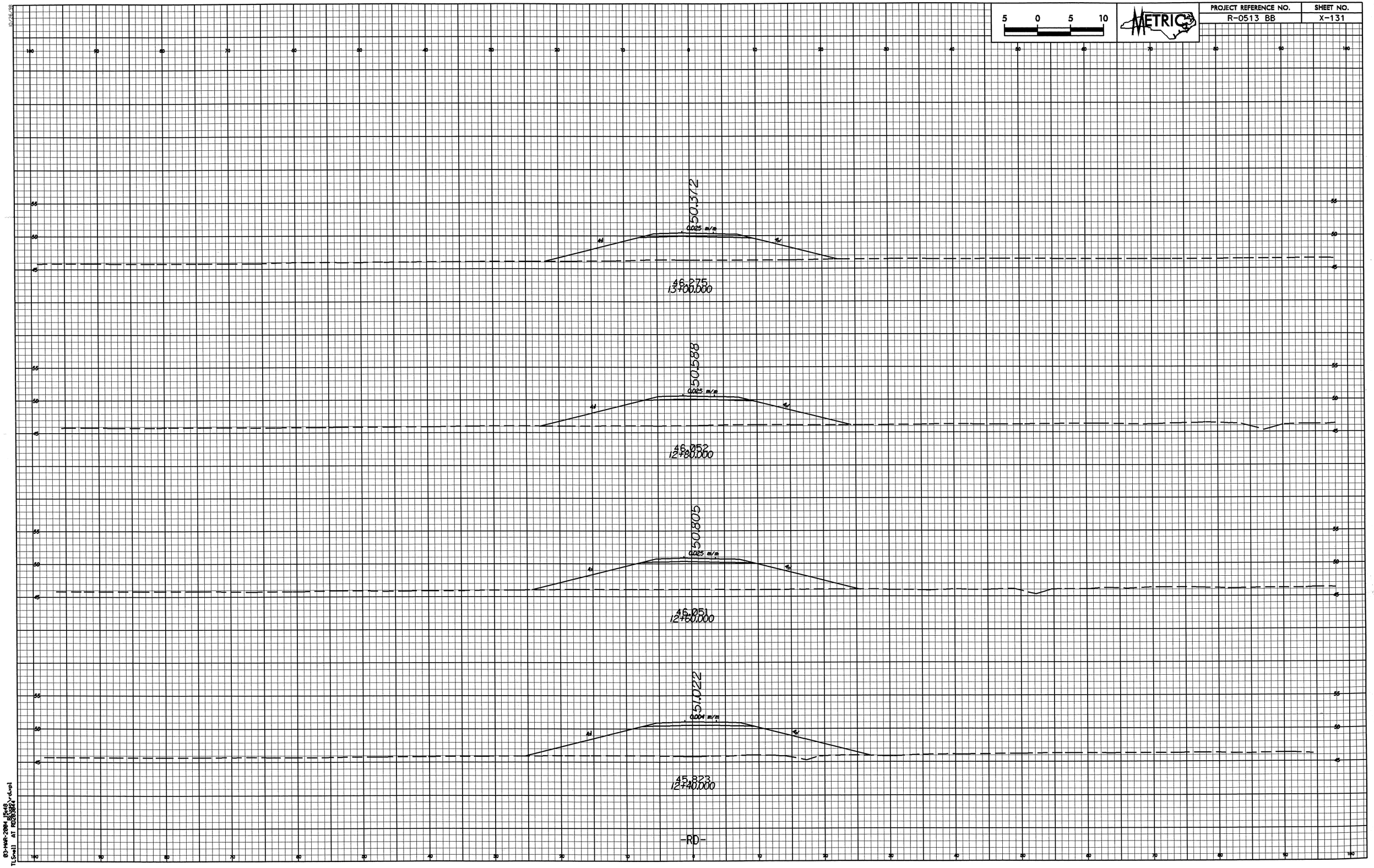


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-129
52.105
0.060 m/m
4:1
4:1
45.864
11+40.000
52.322
0.060 m/m
4:1
4:1
45.844
11+20.000
52.538
0.060 m/m
4:1
4:1
45.825
11+00.000
52.755
0.060 m/m
4:1
4:1
45.897
10+80.000
-RD-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-130

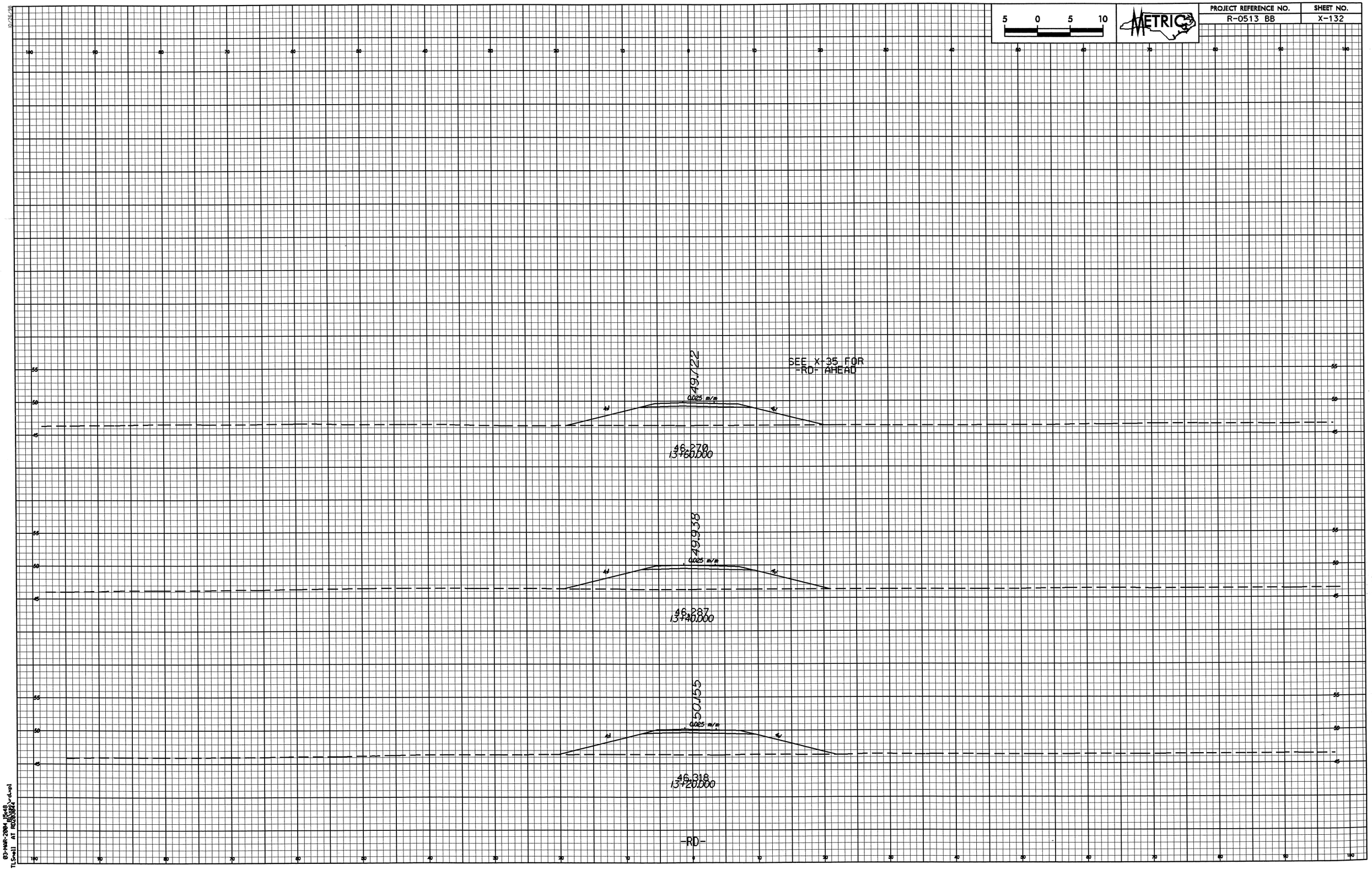


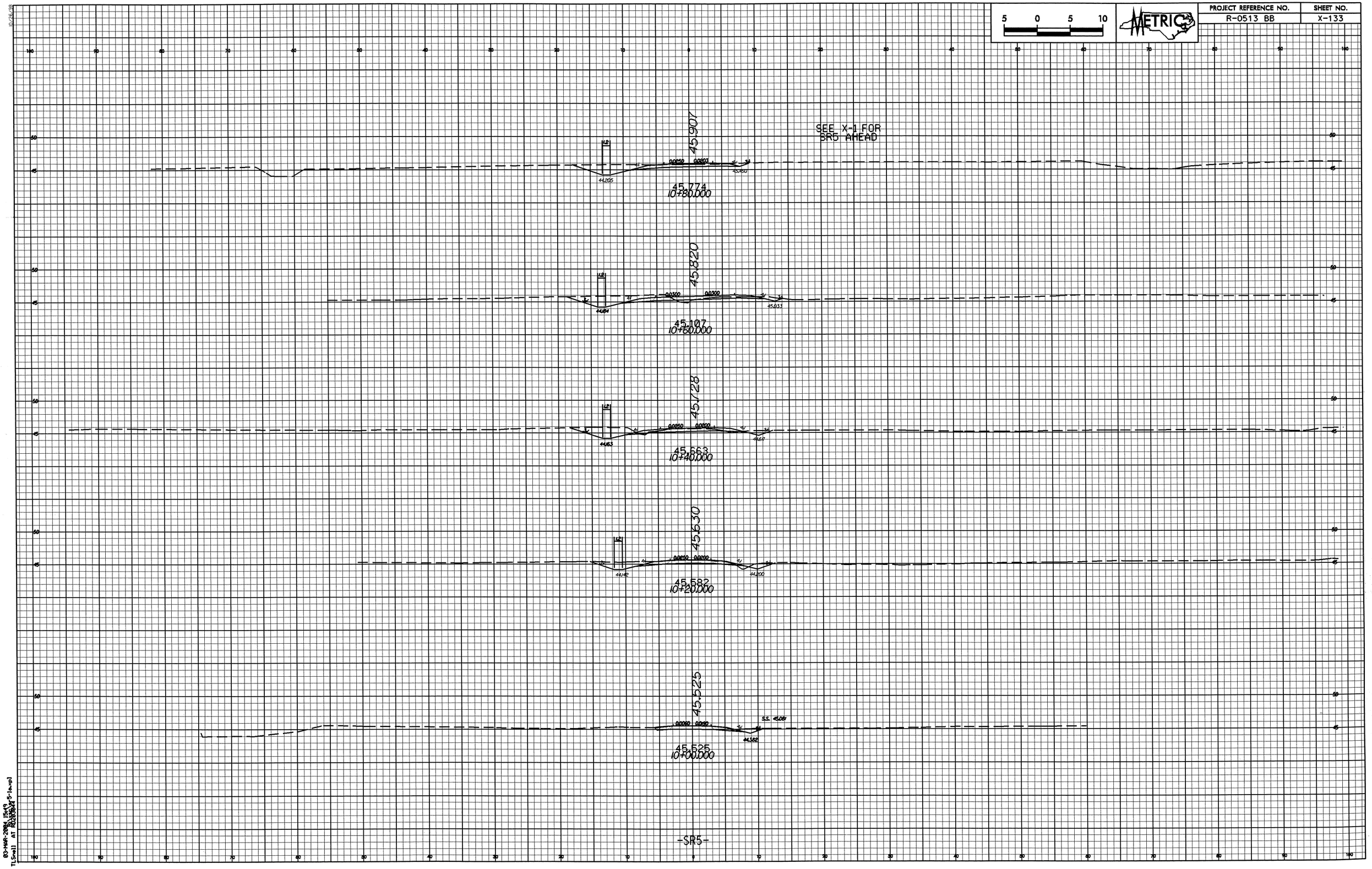
03-MAR-2004 15:47
TLSnell AT RD2B3844



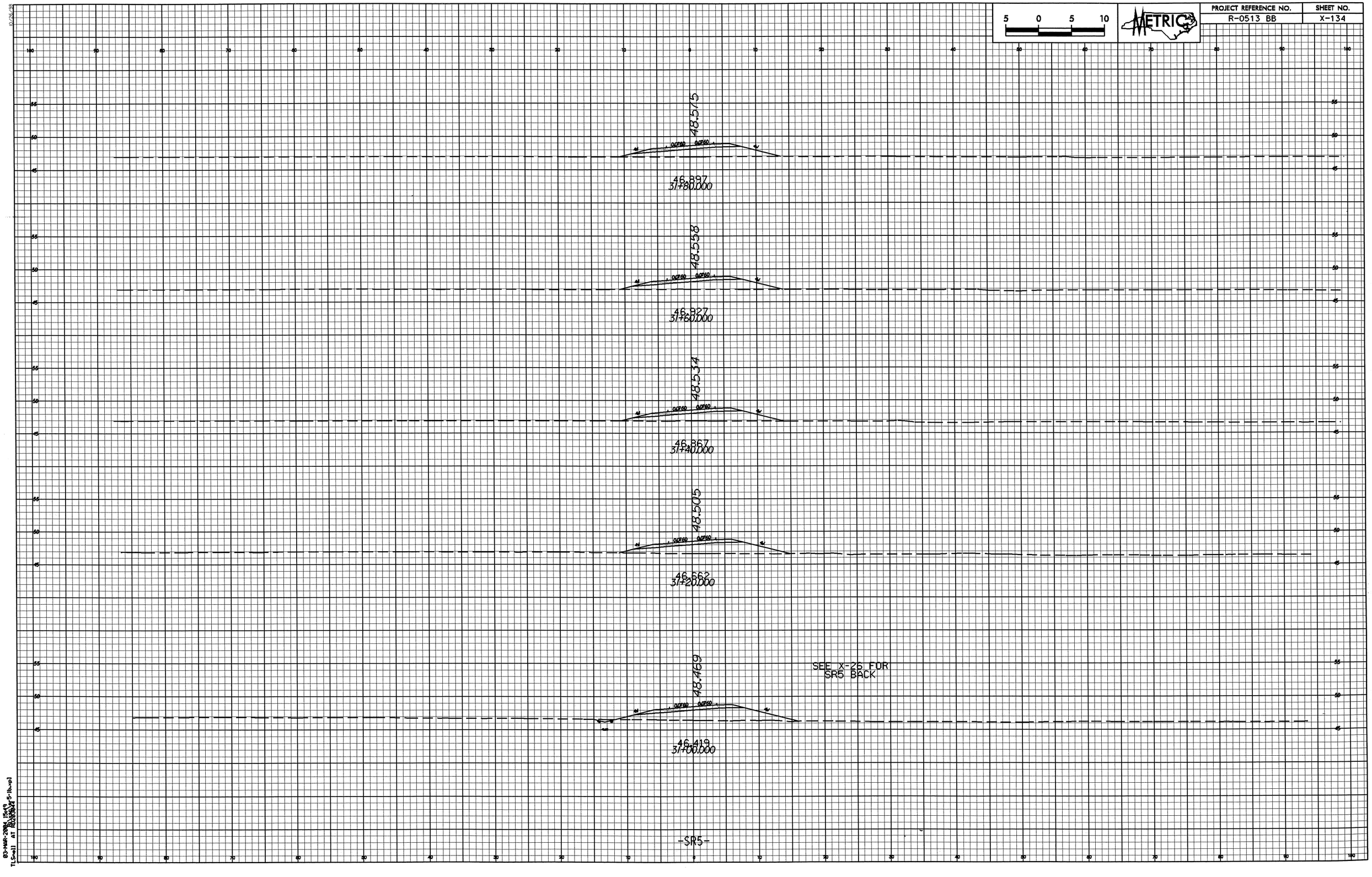
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-131
50.372
0.025 m/m
46.275
13+00.000
50.588
0.025 m/m
46.052
12+80.000
50.805
0.025 m/m
46.051
12+60.000
51.022
0.004 m/m
45.823
12+40.000
-RD-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-132



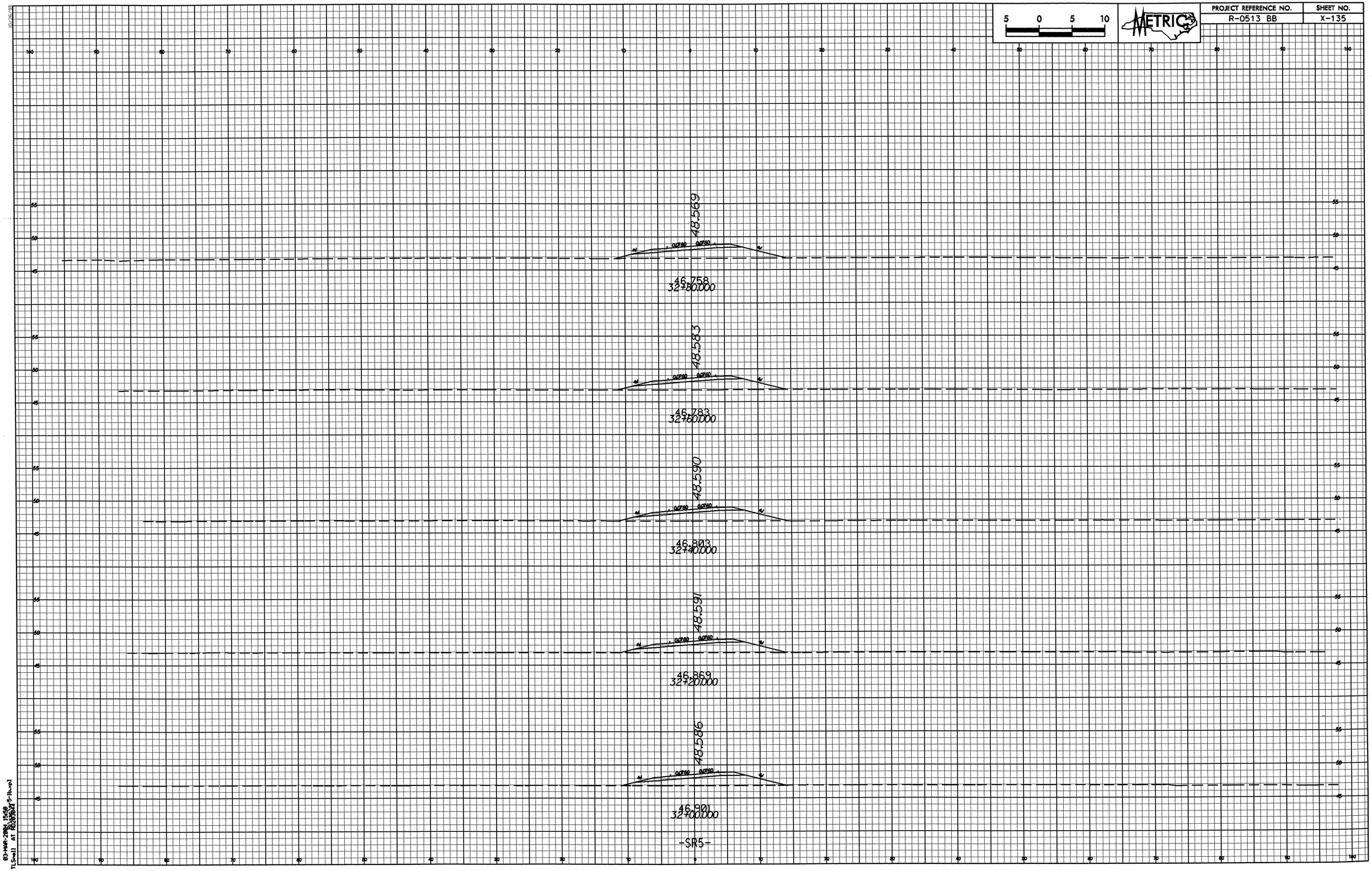


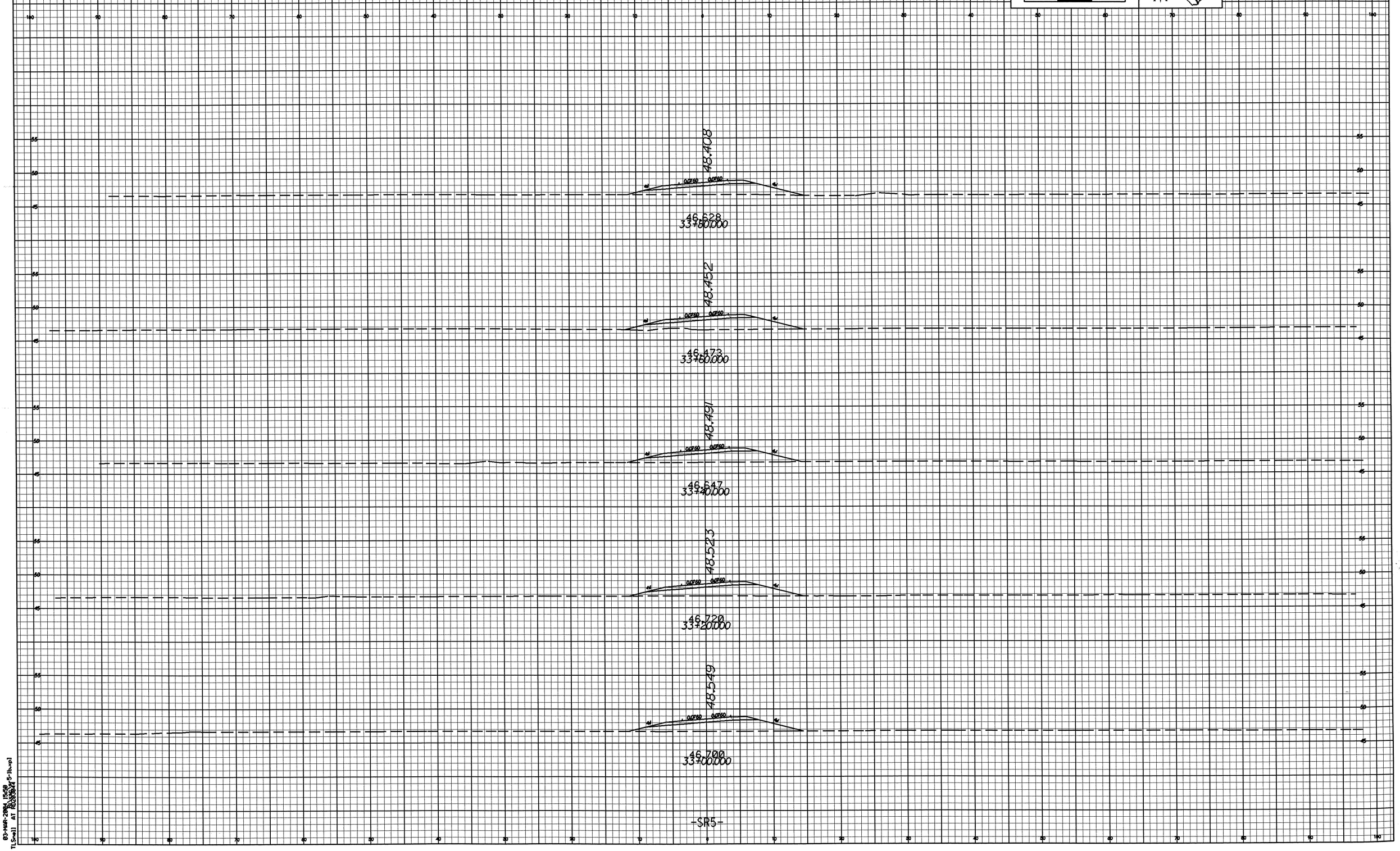
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-133
SEE X-1 FOR
SR5 AHEAD
45.907
45.774
10+80.000
45.820
45.107
10+60.000
45.728
45.663
10+40.000
45.630
45.582
10+20.000
45.525
45.525
10+00.000
-SR5-



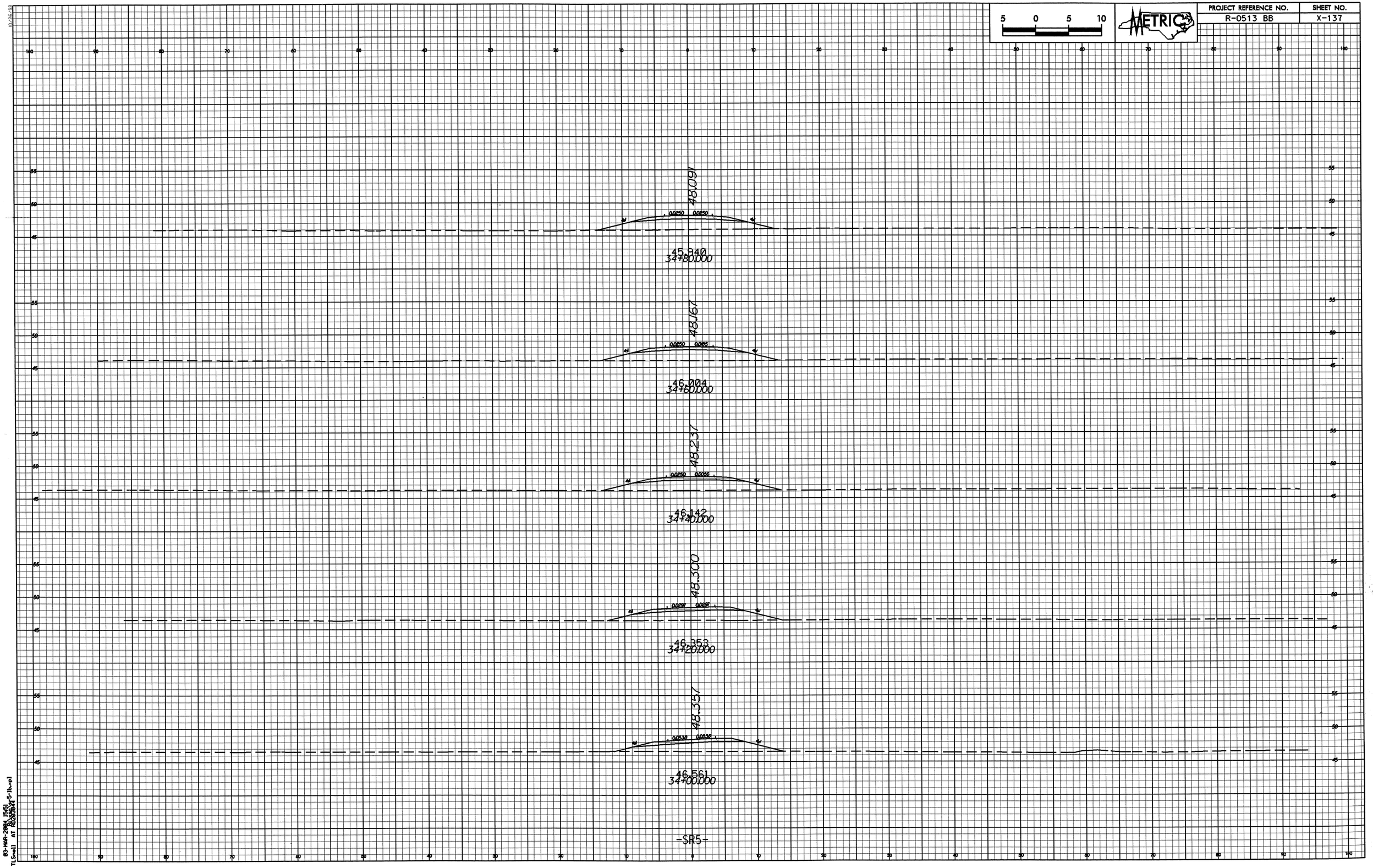
5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-134
48.575
46.897
31+80.000
48.558
46.927
31+60.000
48.534
46.867
31+40.000
48.505
46.662
31+20.000
48.469
46.419
31+00.000
SEE X-26 FOR
SR5 BACK
-SR5-

PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-135

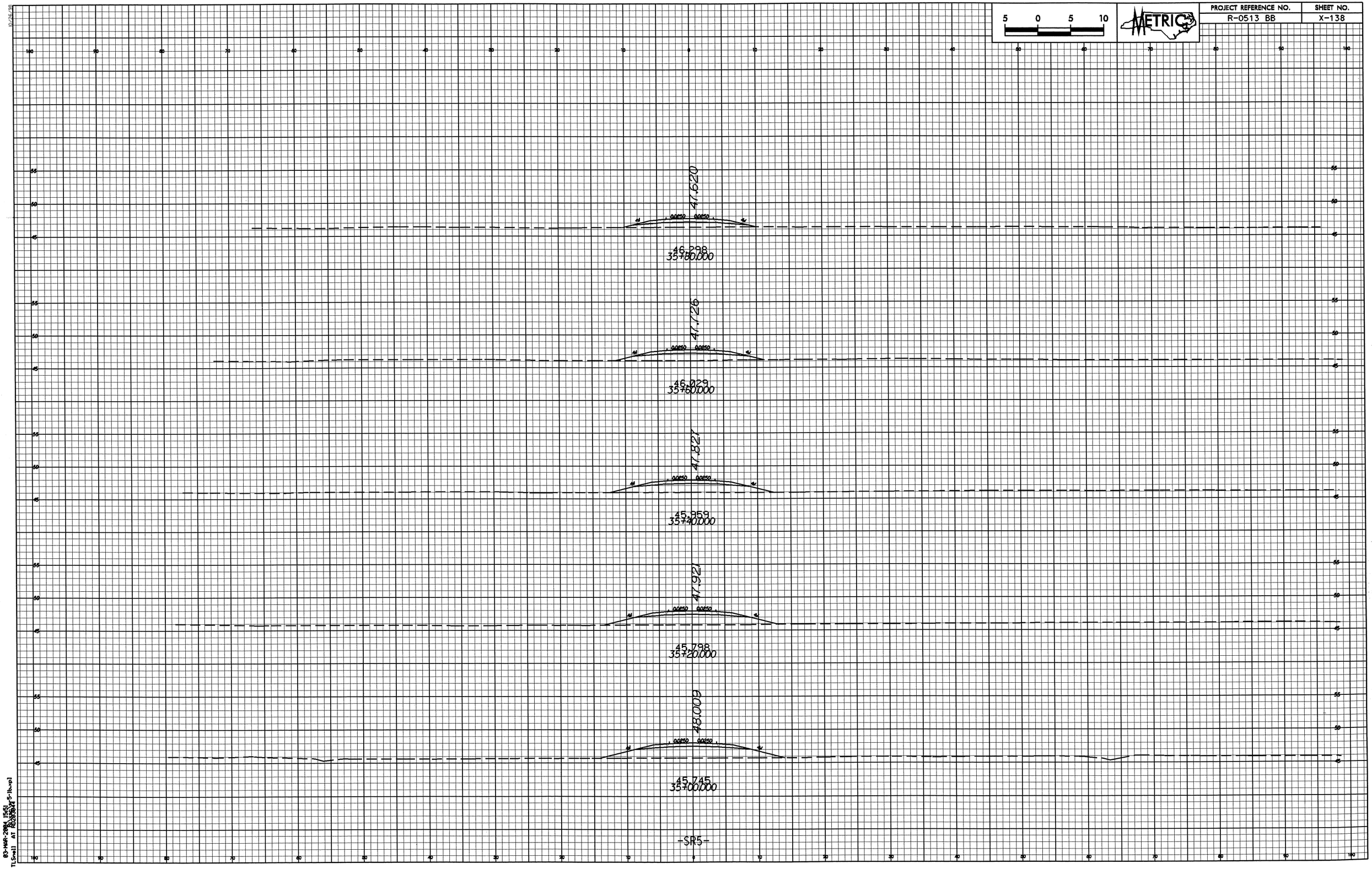




5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-136
48.408
46.628
33+80.000
48.452
46.473
33+60.000
48.491
46.647
33+40.000
48.523
46.720
33+20.000
48.549
46.700
33+00.000
-SR5-

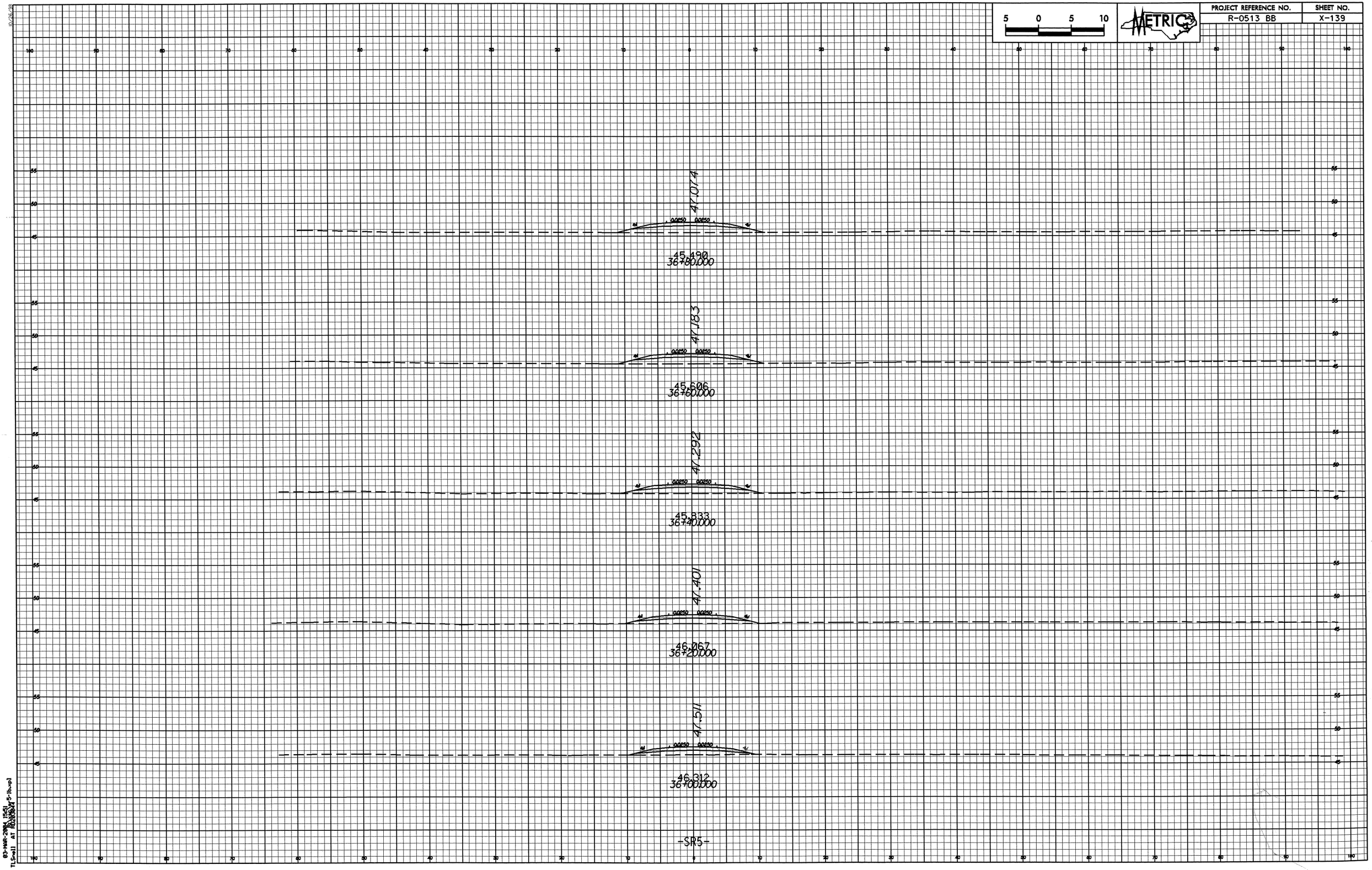


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-137
48.091
0.0250 0.0250
45.940
34+80.000
48.167
0.0250 0.0255
46.004
34+60.000
48.237
0.0250 0.0056
46.142
34+40.000
48.300
0.0297 0.0297
46.353
34+20.000
48.357
0.0535 0.0535
46.561
34+00.000
-SR5-

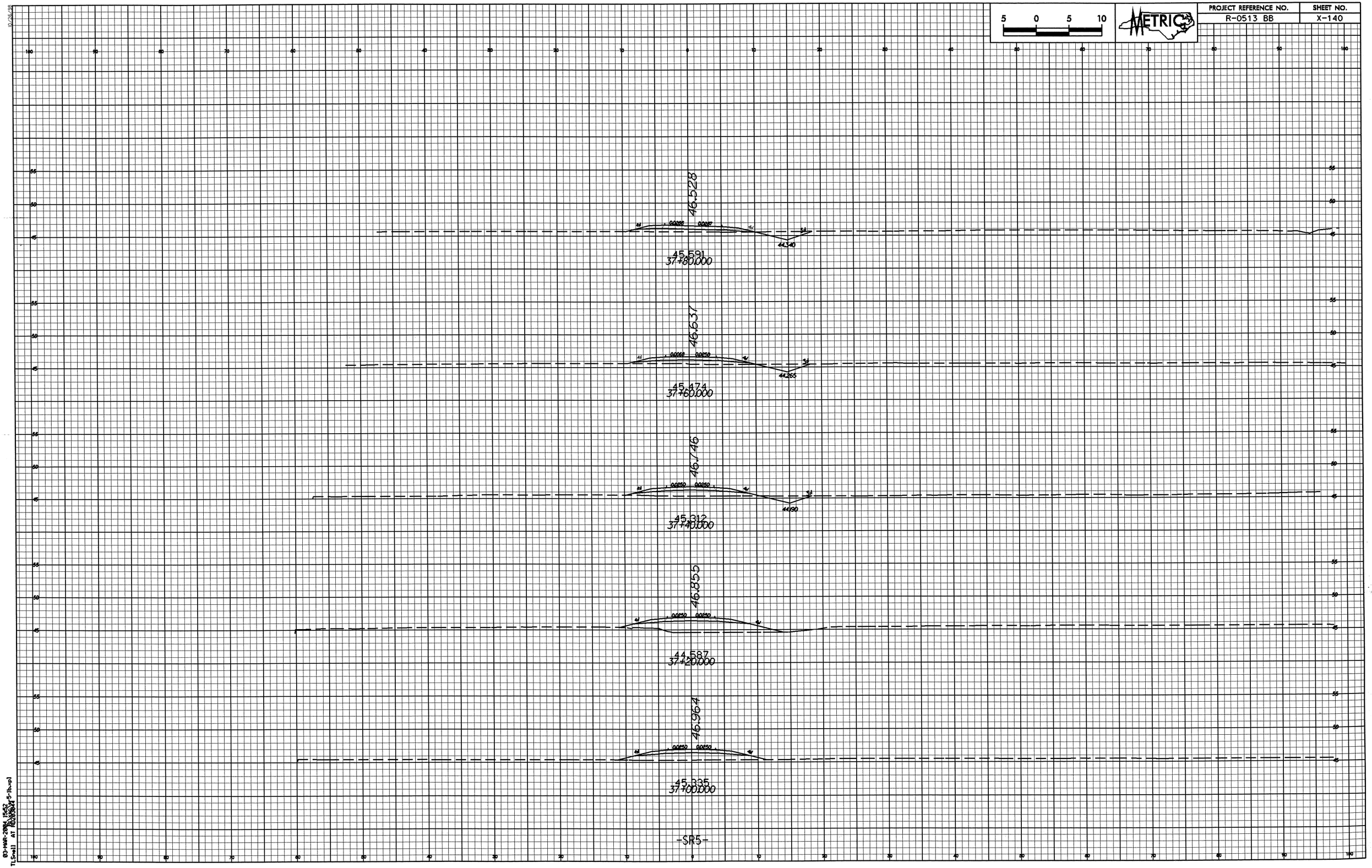


5 0 5 10
METRIC
PROJECT REFERENCE NO.
R-0513 BB
SHEET NO.
X-138
47.620
0.0250 0.0250
46.298
35+80.000
47.726
0.0250 0.0250
46.029
35+60.000
47.827
0.0250 0.0250
45.959
35+40.000
47.921
0.0250 0.0250
45.798
35+20.000
48.009
0.0250 0.0250
45.745
35+00.000
-SR5-

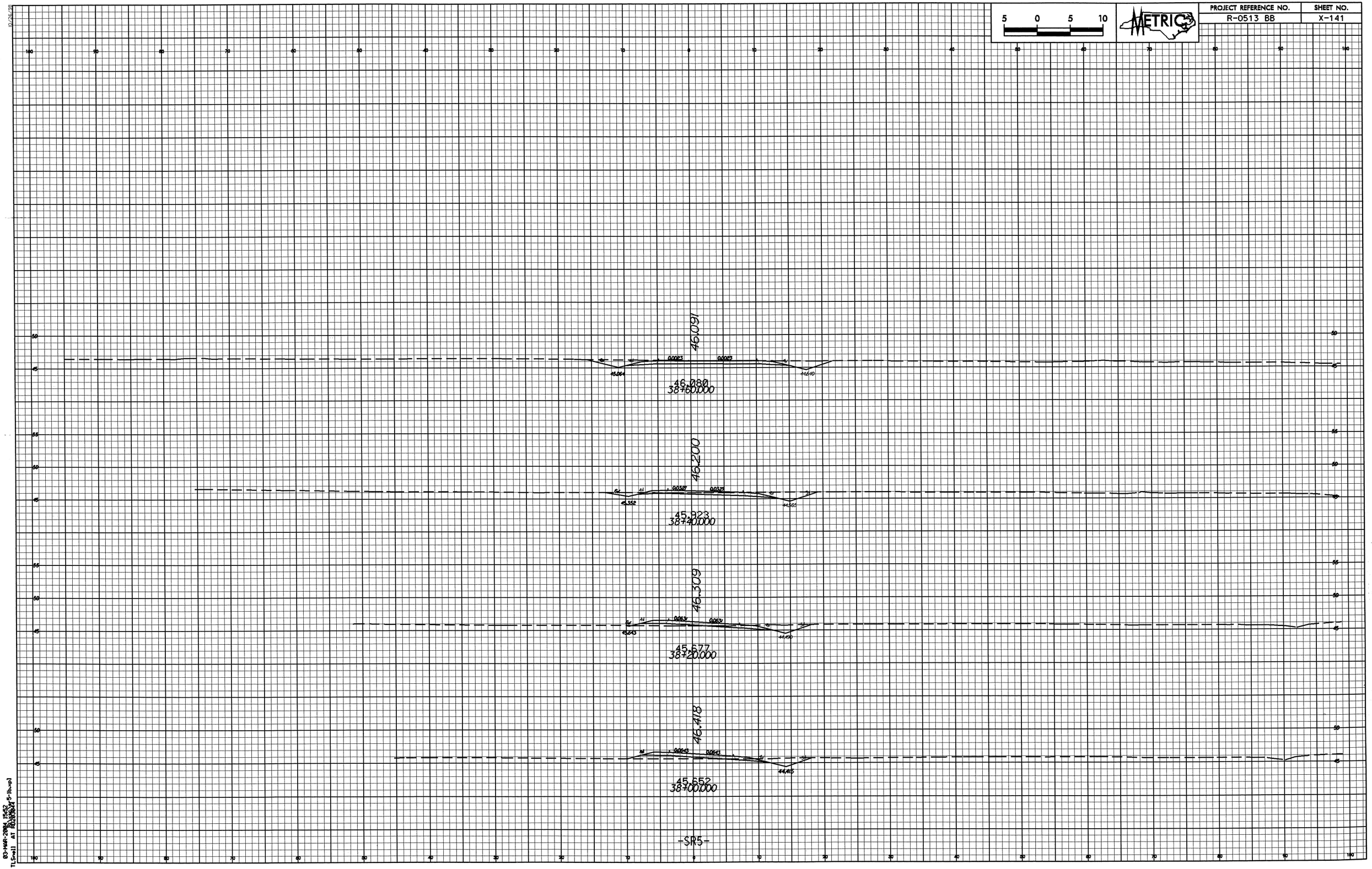
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-139



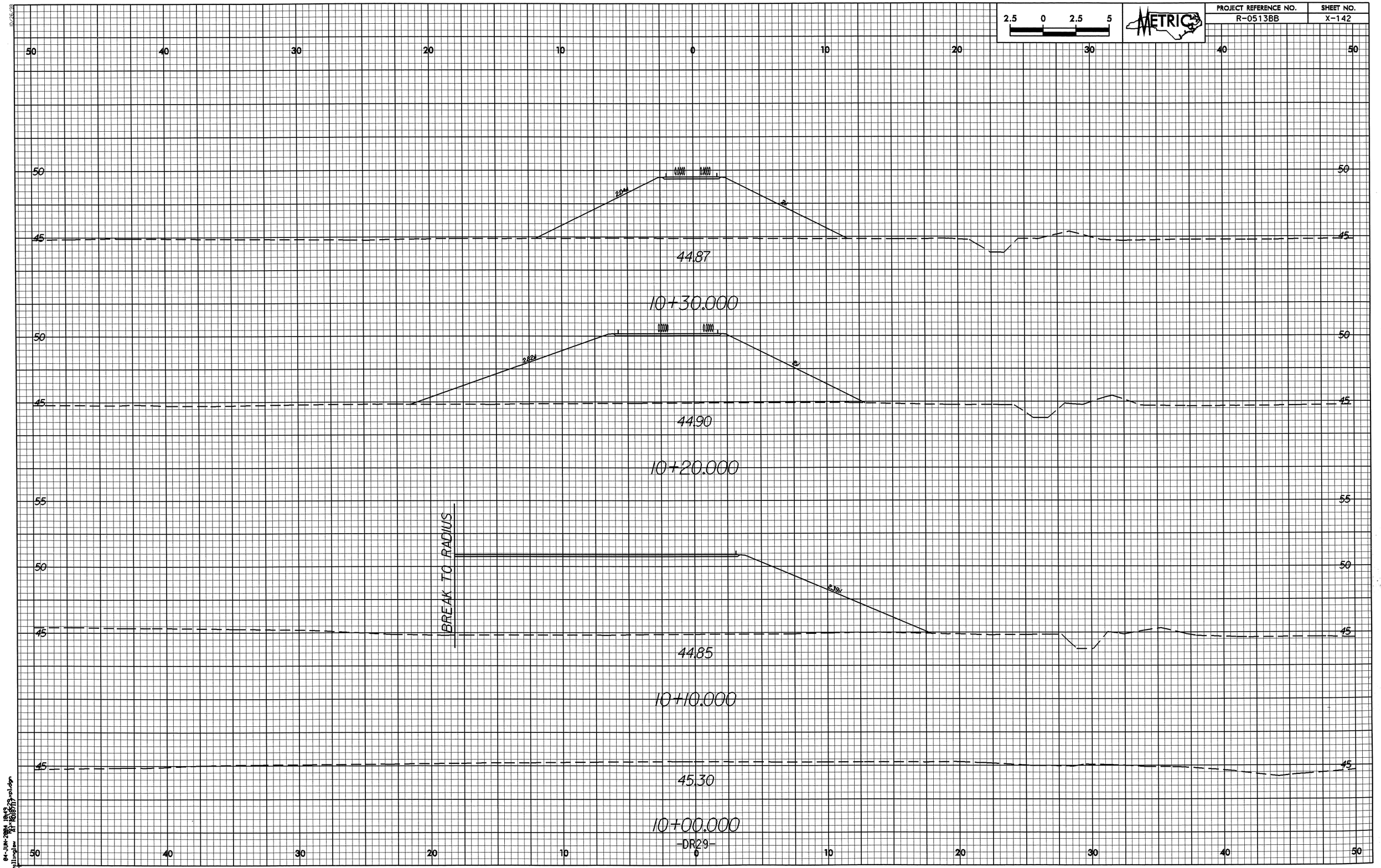
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-140



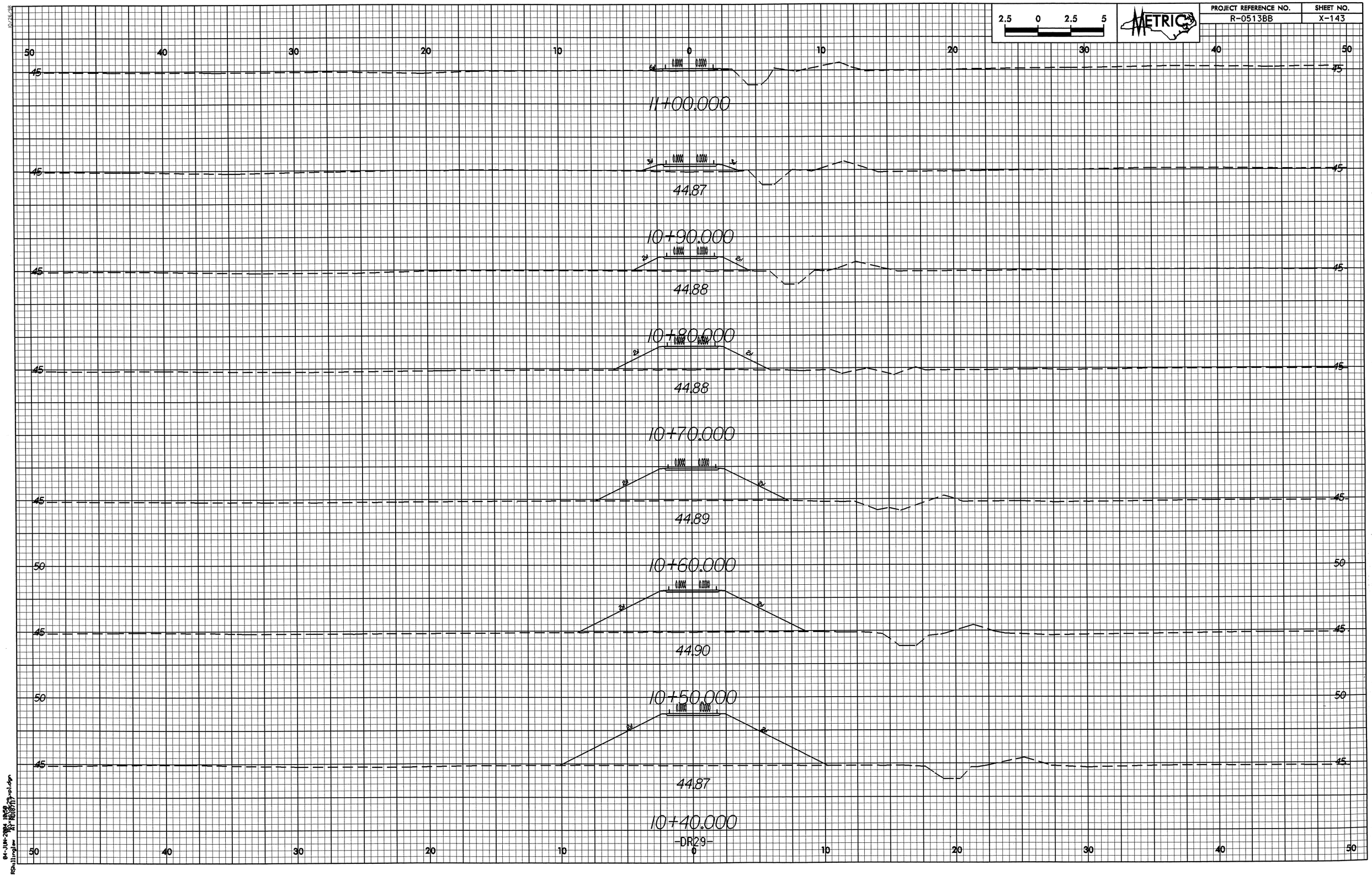
PROJECT REFERENCE NO.	SHEET NO.
R-0513 BB	X-141

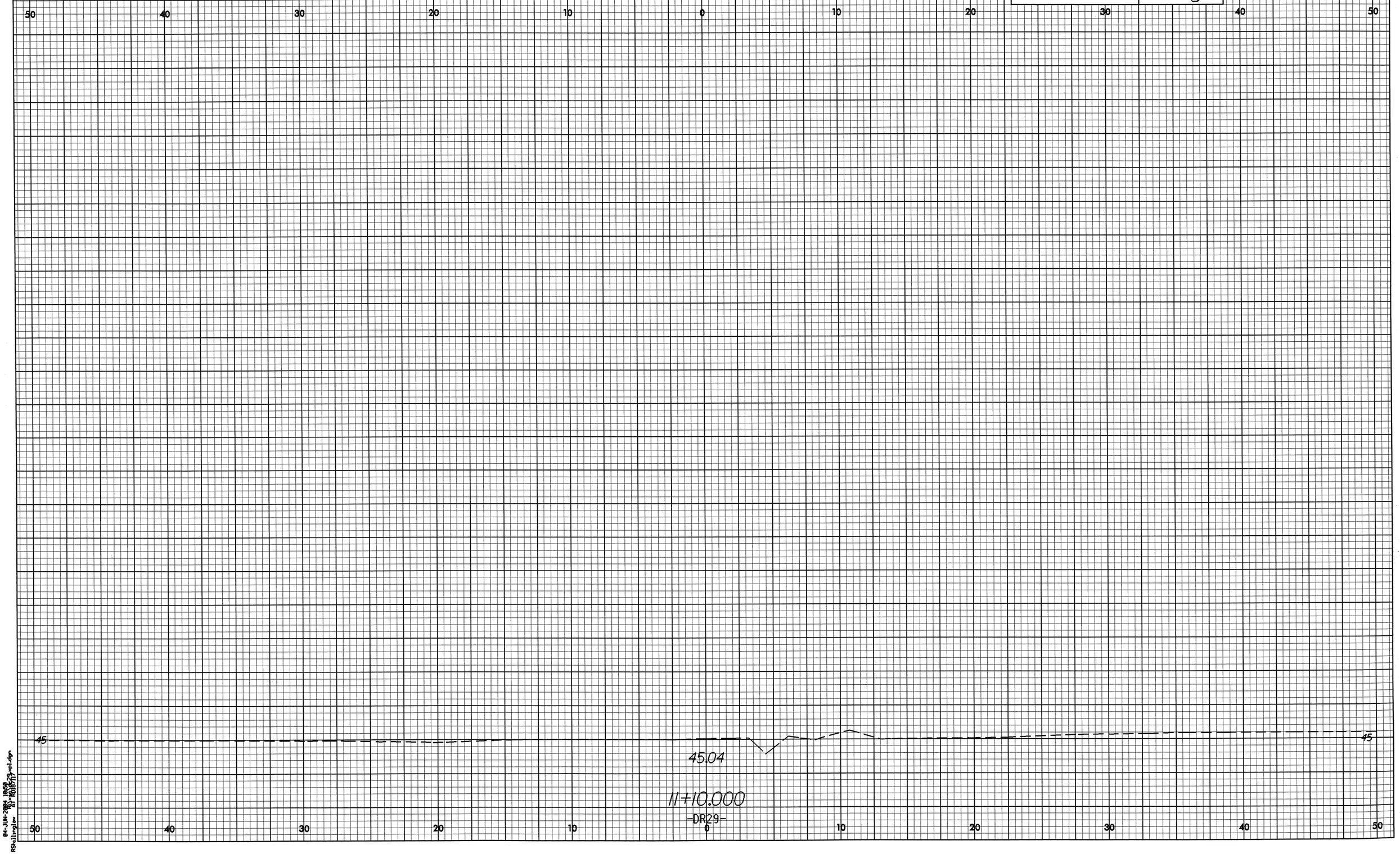


PROJECT REFERENCE NO.	SHEET NO.
R-0513BB	X-142

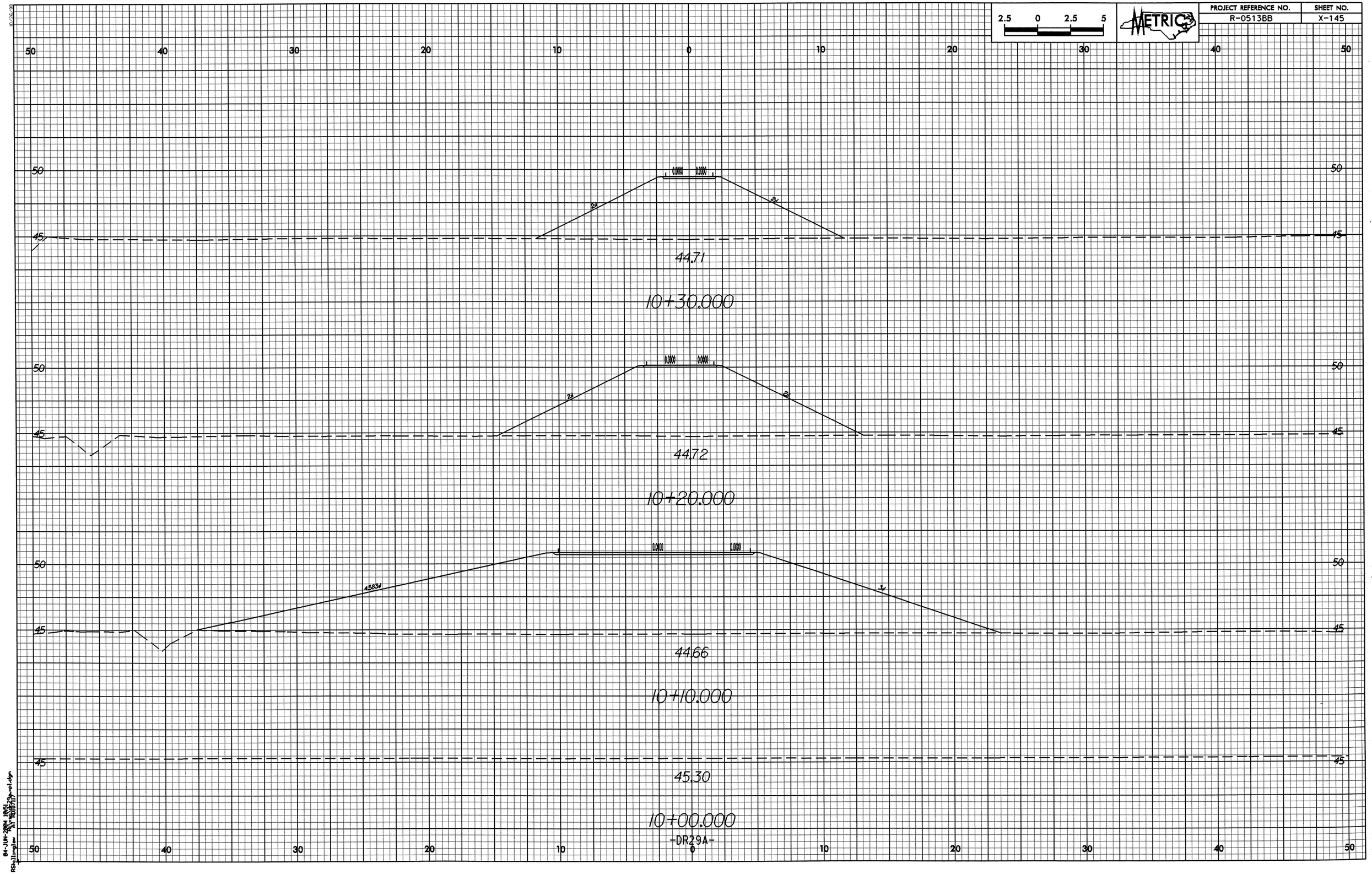


PROJECT REFERENCE NO.	SHEET NO.
R-0513BB	X-143





2.5 0 2.5 5
METRIC
PROJECT REFERENCE NO.
R-0513BB
SHEET NO.
X-144
50 40 30 20 10 0 10 20 30 40 50
45
45.04
11+10.000
-DR29-



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METRIC
PROJECT REFERENCE NO.
R-0513BB
SHEET NO.
X-145
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50
45
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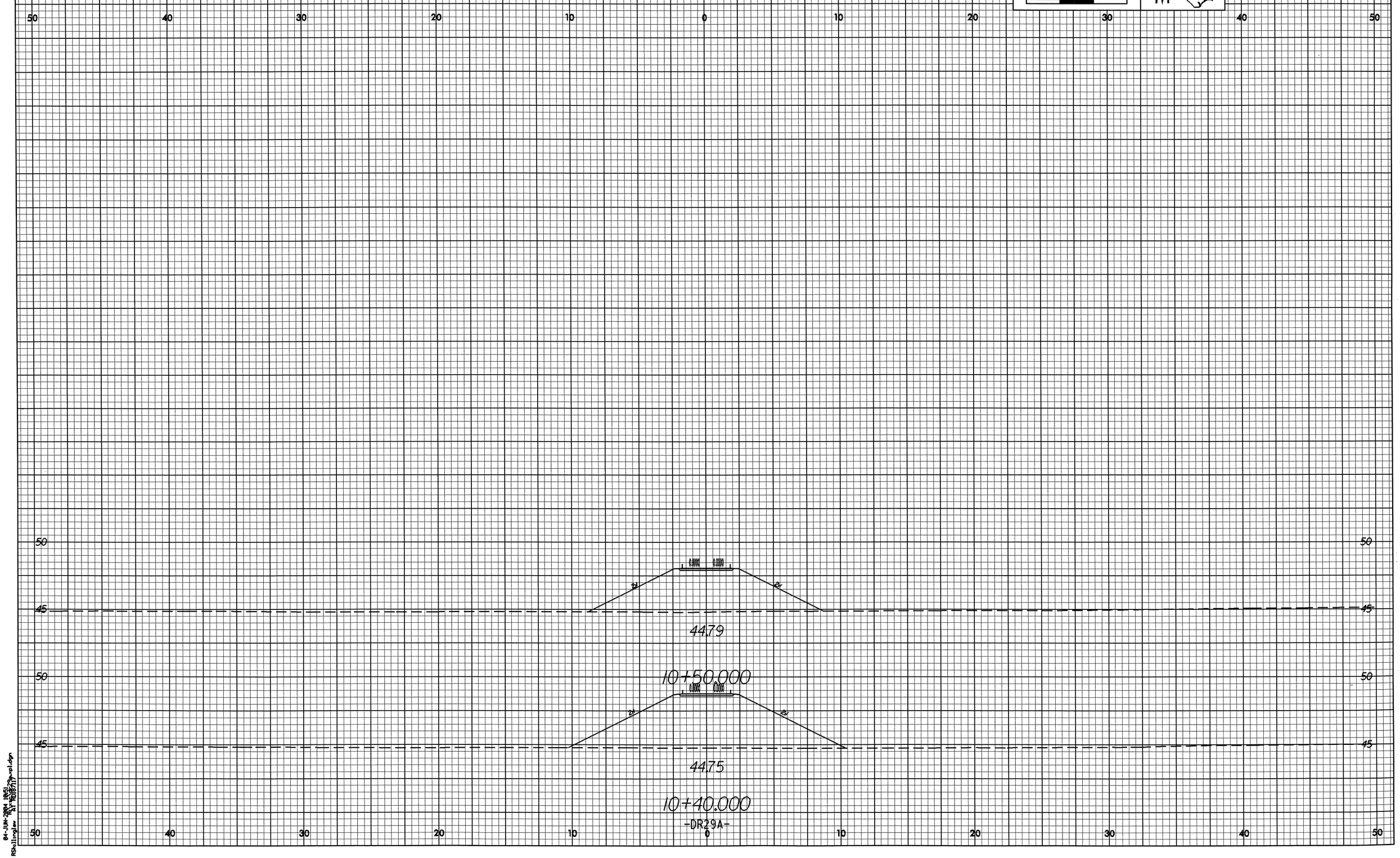
10+30.000
44.72
10+20.000
44.66
10+10.000
45.30
10+00.000
-DR29A-



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METRIC
PROJECT REFERENCE NO.
R-0513BB
SHEET NO.
X-146
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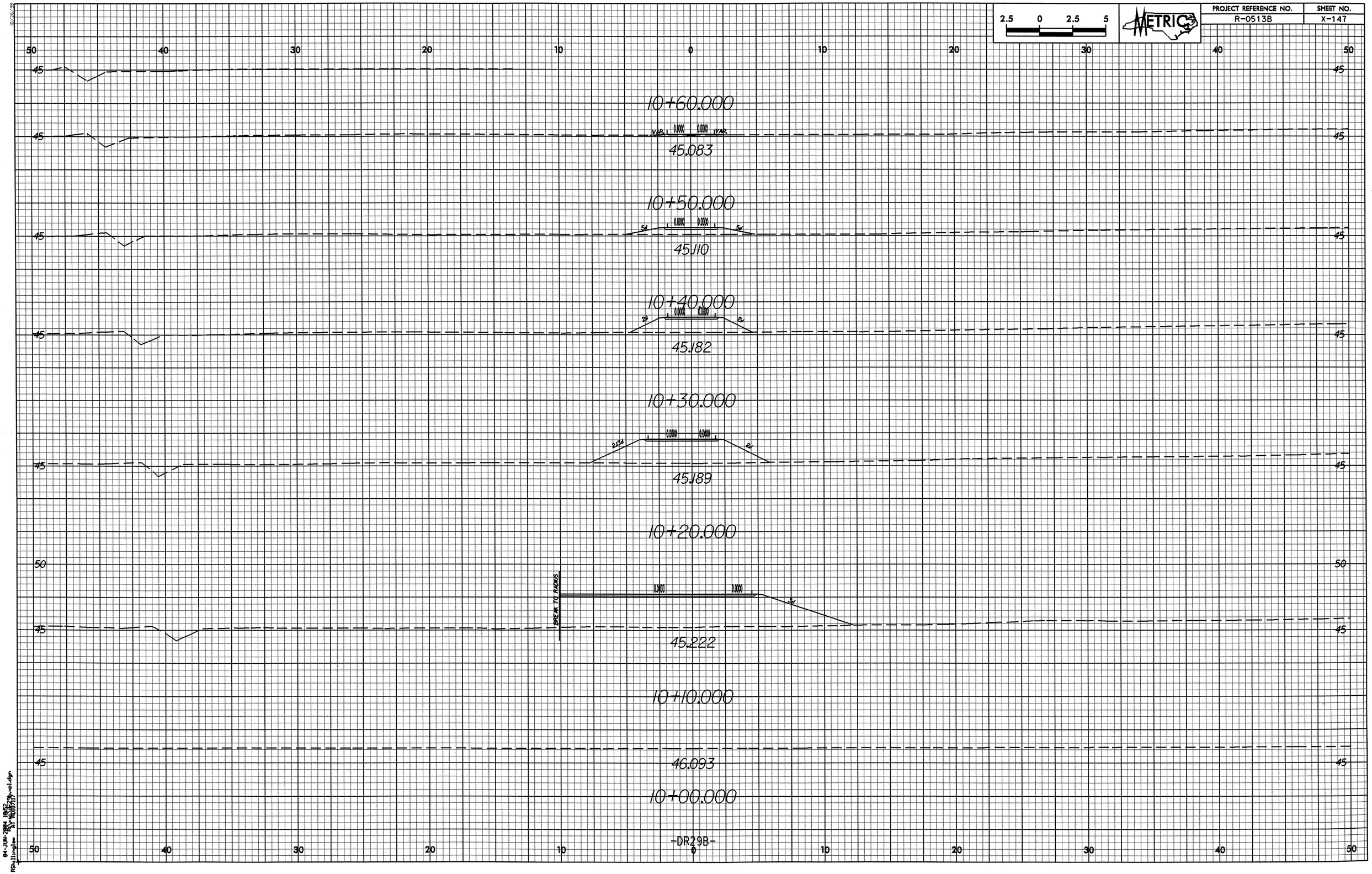
44.75
10+40.000
-DR29A-



2.5 0 2.5 5
METRIC
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R-0513B
SHEET NO.
X-147
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10+50.000
45.110
10+40.000
45.182
10+30.000
45.189
10+20.000
BREAK TO RADIUS
45.222
10+10.000
46.093
10+00.000
-DR29B-