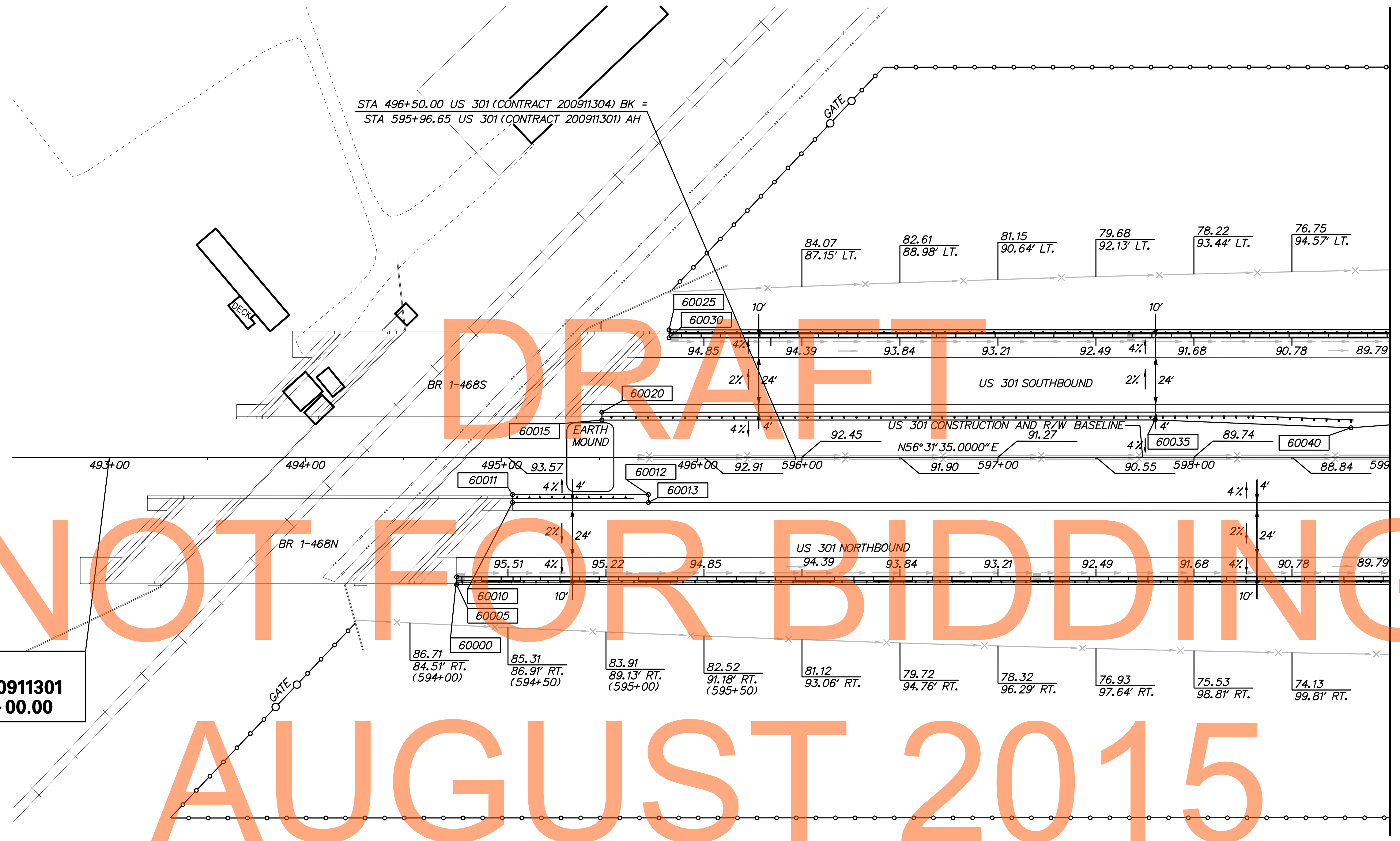


STA 496+50.00 US 301 (CONTRACT 200911304) BK =
 STA 595+96.65 US 301 (CONTRACT 200911301) AH

DRAFT
 NOT FOR BIDDING
 AUGUST 2015

BEGIN
CONTRACT T200911301
STATION 493 + 00.00

MATCH LINE STA. 599 + 00



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60000	494+77.16	61.0000	542748.1177	572029.1610
60005	494+77.16	65.0000	542744.7811	572031.3673
60010	495+05.72	23.0000	542795.5679	572032.0258
60011	495+05.72	19.0000	542798.9044	572029.8196
60012	495+75.00	19.0000	542837.1151	572087.6075
60013	495+75.00	23.0000	542833.7786	572089.8137
60015	495+51.28	-19.0000	542855.7303	572046.8638
60020	495+51.28	-23.0000	542859.0669	572044.6576
60025	495+85.55	-65.0000	542913.0045	572050.0814
60030	495+85.55	-61.0000	542909.6679	572052.2876
60035	597+80.10	-19.0000	543011.3596	572282.2295
60040	598+80.11	-15.0000	543063.1832	572367.8569

\$FILES \$DATES

ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.	
T200911301	DESIGNED BY:	WJD
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

GRADES & GEOMETRICS



GG-01
SHEET NO.
43
TOTAL SHTS.
240

MATCH LINE STA. 599+00

MATCH LINE STA. 607+00



NOT FOR BIDDING

AUGUST 2015

MATCH LINE SHEET GG-03

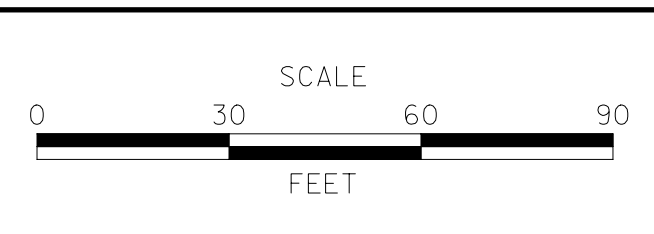
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60045	599+61.76	-21.0000	543113.2232	572432.6565
60050	599+61.76	-23.0000	543114.8915	572431.5534
60055	606+20.83	61.0000	543408.3347	573027.6390
60060	606+37.53	65.0000	543414.2104	573043.7773
60065	606+37.53	61.0000	543417.5470	573041.5711
* 60070	605+17.10	0.0000	543402.0021	572907.4651
60075	606+68.00	-102.4220	543570.6683	572976.8495
60077	606+70.00	-61.0000	543537.2197	573001.3643

*NOTE: SEE CONSTRUCTION DETAILS FOR HEADWALL LAYOUT COORDINATES.

\$FILES \$DATES



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

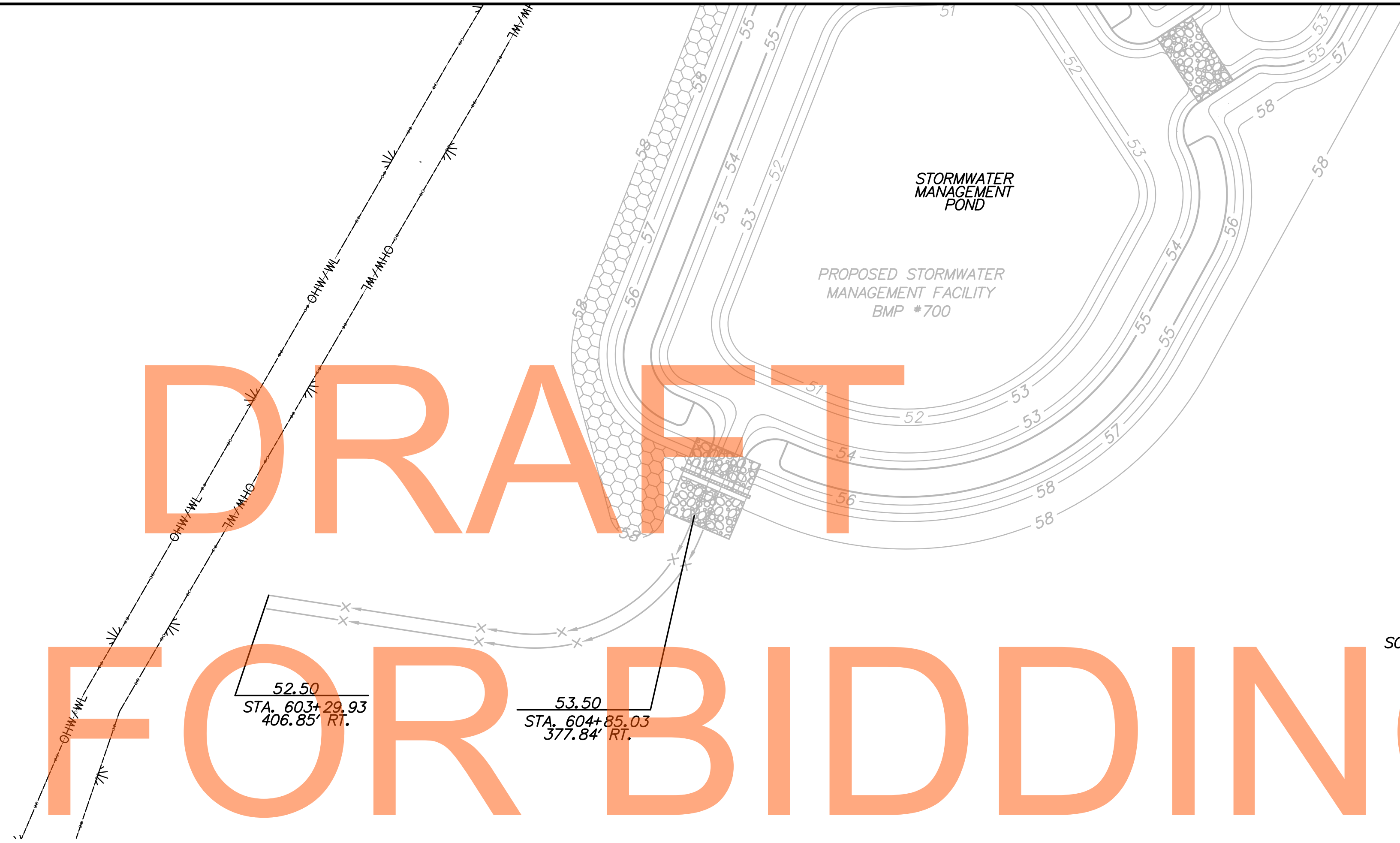
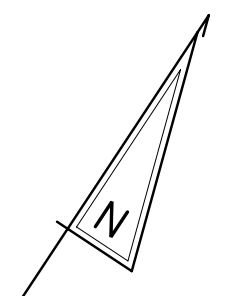
GRADES & GEOMETRICS

GG-02
SHEET NO. 44
TOTAL SHTS. 240

MATCH LINE SHEET GG-02

MATCH LINE SHEET GG-04

MATCH LINE SHEET GG-04



DRAFT

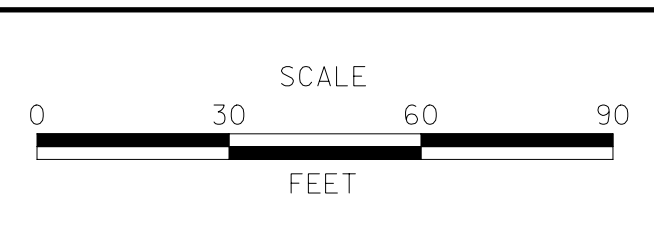
NOT FOR BIDDING

AUGUST 2015

\$DATES
\$FILES



ADDENDUMS / REVISIONS	

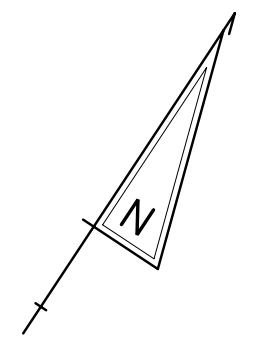


US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-03
SHEET NO. 45
TOTAL SHTS. 240



DRAFT

NOT FOR BIDDING

AUGUST 2015

MATCH LINE SHEET GG-03

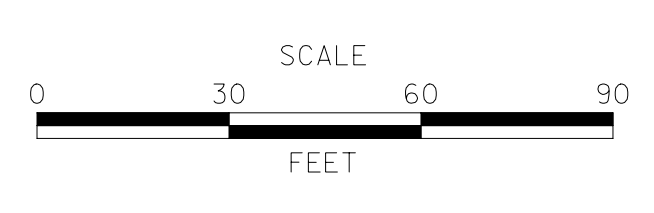
MATCH LINE SHEET GG-03

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60085	608+83.31	-23.0000	543623.1766	573200.2574
60087	608+83.31	-65.0000	543658.2104	573177.0922
60090	608+83.31	-61.0000	543654.8739	573179.2984
60095	609+40.88	-65.0000	543689.9700	573225.1537
60100	610+41.12	-69.0000	543748.5400	573306.6755
60105	611+00.02	-100.3576	543807.1512	573338.6630
60110	611+20.47	-63.0000	543787.1934	573376.2956
60115	611+20.47	-61.0000	543785.5225	573377.3948
60120	608+83.31	23.0000	543584.8061	573225.6288
60121	608+16.51	61.0000	543516.2638	573190.8653
60122	608+36.51	61.0000	543527.2948	573207.5481
60125	608+83.31	61.0000	543553.1088	573246.5878
60130	610+99.91	97.7244	543641.6288	573447.4694
60135	613+78.41	82.2308	543807.2221	573671.6085

\$FILES \$DATES



ADDENDUMS / REVISIONS	

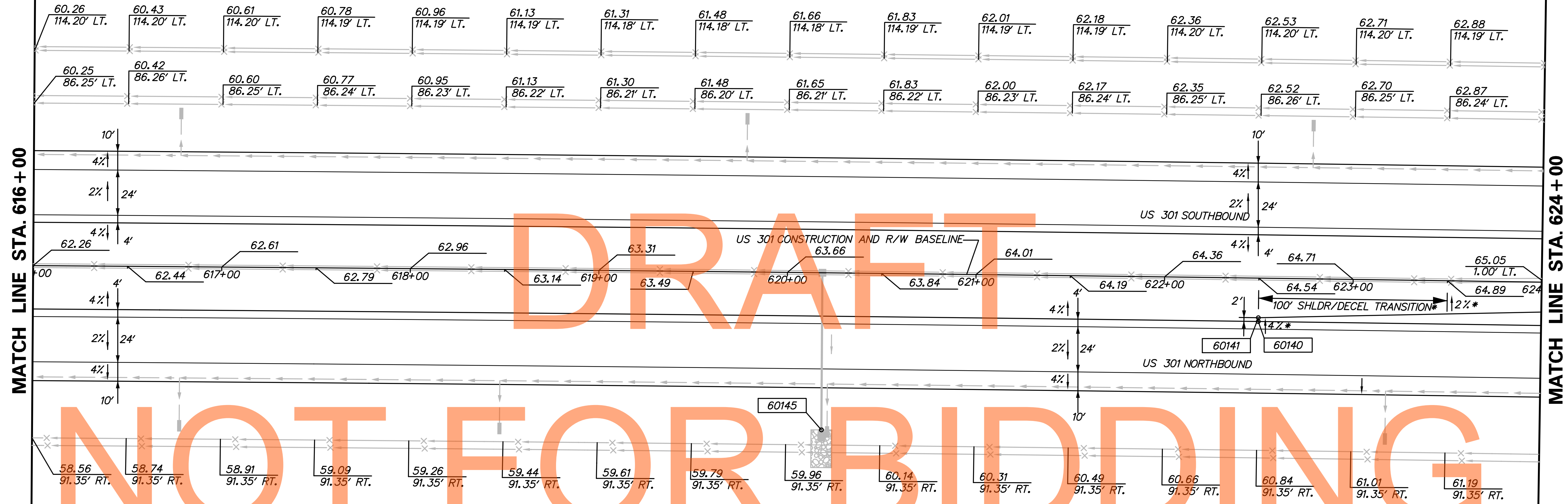
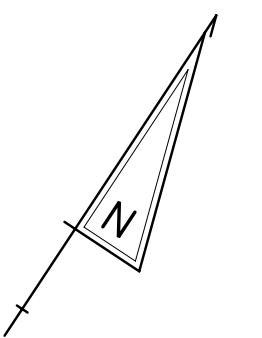


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-04
SHEET NO. 46
TOTAL SHTS. 240



NOT FOR BIDDING

AUGUST 2015

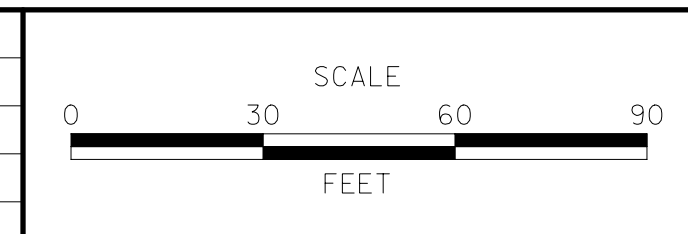
*NOTE: TRANSITION INCLUDES SHOULDER AND DECEL LANE. SEE TYPICAL SECTIONS FOR MORE DETAILS.

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60140	622+50.00	23.0000	544330.6204	574370.4879
60141	622+50.00	21.0000	544332.3036	574369.4077
60145	620+18.91	83.3546	544154.8952	574208.9093

\$FILES \$DATES



ADDENDUMS / REVISIONS

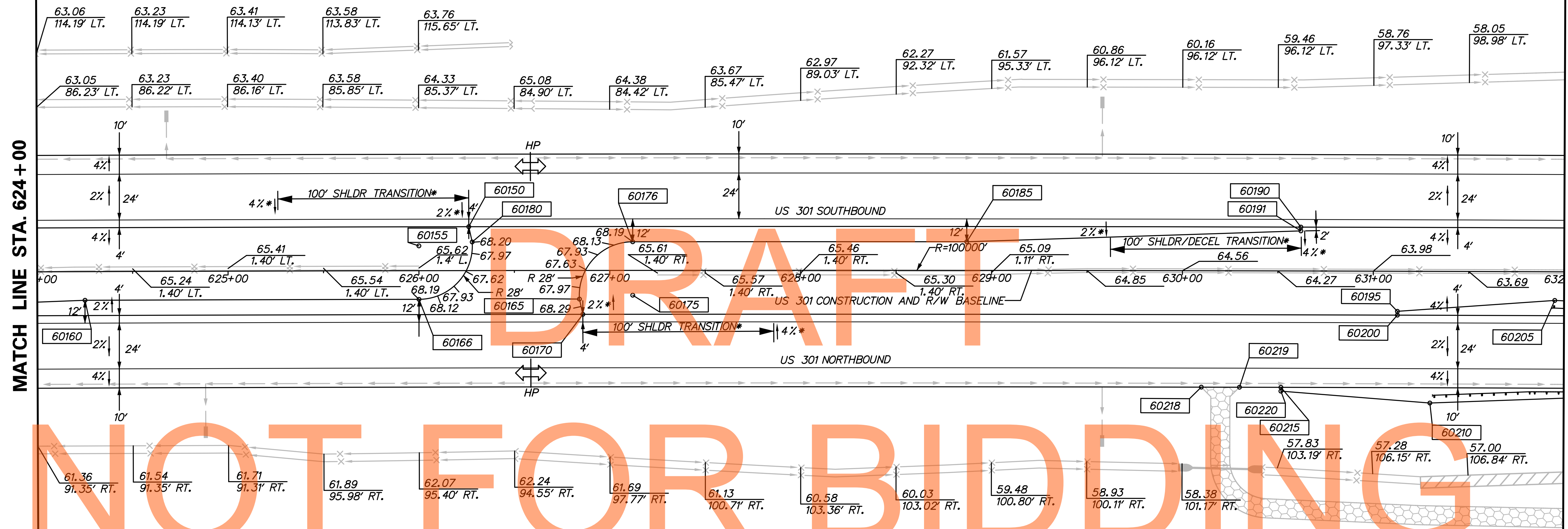
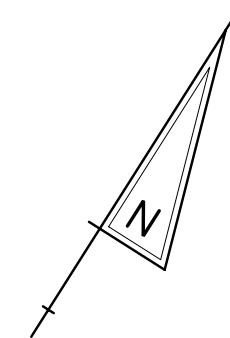


US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT T200911301	BRIDGE NO.		
COUNTY NEW CASTLE	DESIGNED BY:	WJD	
	CHECKED BY:	MAA	

GRADES & GEOMETRICS

GG-05
SHEET NO. 47
TOTAL SHTS. 240



MATCH LINE STA. 624 + 00

MATCH LINE STA. 632 + 00

NOT FOR BIDDING

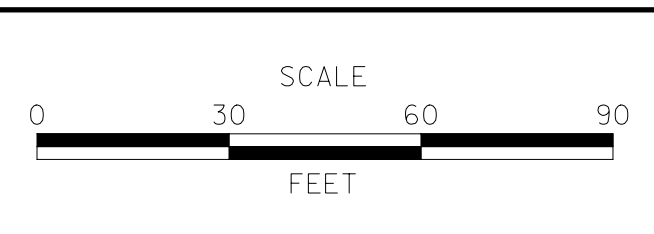
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60150	626+26.15	-23.0000	544571.9432	574662.6641
60155	626+00.00	-13.0000	544549.4622	574645.9727
60160	624+25.00	15.0000	544431.7279	574513.5076
60165	626+84.07	15.0000	544570.9652	574731.9311
60166	626+00.00	15.0000	544525.8446	574661.0130
60170	626+85.84	23.0000	544565.1652	574737.7197
60175	627+12.00	13.0000	544587.6319	574754.4304
60176	627+12.00	-15.0000	544611.2663	574739.4166
60180	626+27.92	-15.0000	544566.1479	574668.4580
60185	628+87.00	-15.0000	544704.9874	574887.2358
60190	630+62.00	-23.0000	544805.2174	575030.9529
60191	630+62.00	-21.0000	544803.5255	575032.0194
60195	631+12.68	21.0000	544795.0017	575097.2835
60200	631+12.68	23.0000	544793.3090	575098.3488
60205	631+95.12	15.0000	544843.9722	575163.8615
60210	631+29.85	69.0000	544763.5282	575137.3865
60215	630+51.74	61.0000	544728.6880	575067.0708
60218	630+10.01	61.0000	544706.4372	575031.7961
60219	630+30.02	61.0000	544717.1089	575048.7102
60220	630+51.74	63.0000	544726.9953	575068.1362

*NOTE: TRANSITION INCLUDES SHOULDER AND DECEL LANE. SEE TYPICAL SECTIONS FOR MORE DETAILS.

\$FILES \$DATES



ADDENDUMS / REVISIONS	

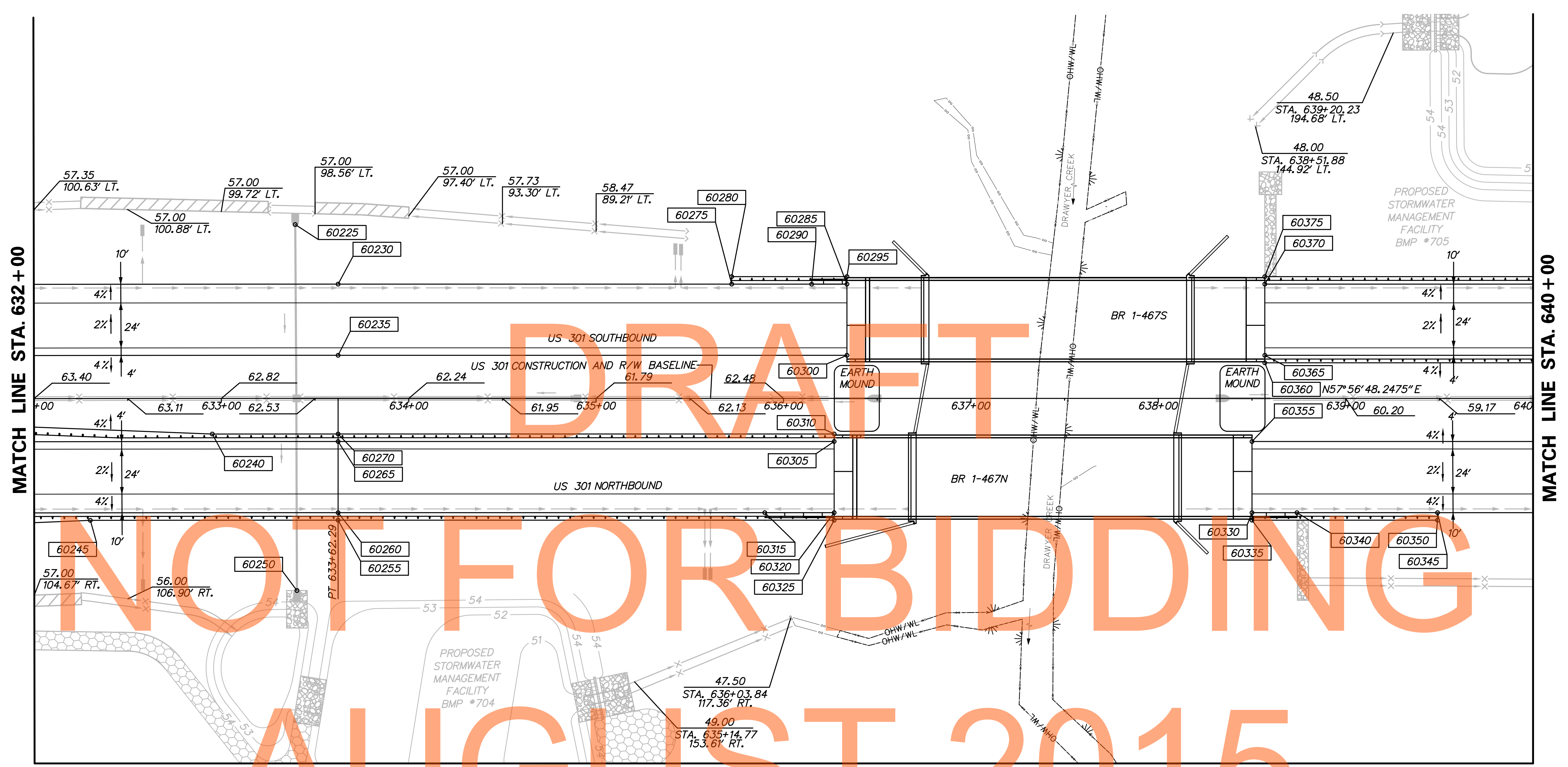


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT T200911301	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY:	WJD
	CHECKED BY:	MAA

GRADES & GEOMETRICS

GG-06
SHEET NO. 48
TOTAL SHTS. 240



DRAFT

NOT FOR BIDDING

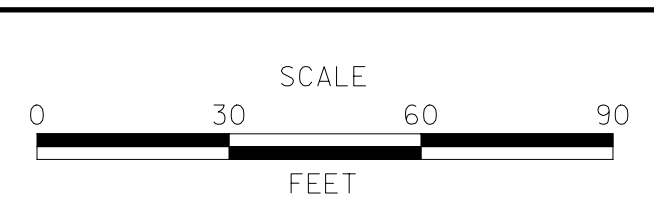
AUGUST 2015

MATCH LINE SHEET GG-08

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60225	633+39.45	-92.8025	545012.0265	575228.8609
60230	633+62.29	-61.0000	544997.2076	575265.1145
60235	633+62.29	-23.0000	544965.0005	575285.2814
60240	632+95.15	19.0000	544893.7597	575250.6899
60245	632+29.98	65.0000	544820.1696	575219.9635
60250	633+40.30	102.5701	544846.9132	575333.3061
60255	633+62.29	65.0000	544890.4156	575331.9836
60260	633+62.29	61.0000	544893.8058	575329.8608
60265	633+62.29	23.0000	544926.0129	575309.6939
60270	633+62.29	19.0000	544929.4032	575307.5711
60275	635+72.34	-61.0000	545108.6843	575443.1460
60280	635+72.34	-65.0000	545112.0745	575441.0232
60285	636+33.84	-61.0000	545141.3228	575495.2706

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60290	636+15.00	-61.0000	545131.3242	575479.3027
60295	636+33.84	-65.0000	545144.7130	575493.1478
60300	636+33.84	-23.0000	545109.1157	575515.4375
60305	636+27.02	23.0000	545066.5064	575534.0660
60310	636+27.01	19.0000	545069.8956	575531.9415
60315	635+90.00	61.0000	545014.6548	575522.8601
60320	636+27.02	61.0000	545034.2993	575554.2329
60325	636+27.02	65.0000	545030.9091	575556.3557
60330	638+50.01	61.0000	545152.6441	575743.2329
60335	638+50.01	65.0000	545149.2539	575745.3558
60340	638+74.01	61.0000	545165.3811	575763.5743
60345	639+49.01	61.0000	545205.1841	575827.1409
60350	639+49.01	65.0000	545201.7939	575829.2637
60355	638+50.01	23.0000	545184.8512	575723.0660
60360	638+56.84	-19.0000	545224.0741	575706.5665
60365	638+56.84	-23.0000	545227.4643	575704.4437
60370	638+56.84	-61.0000	545259.6714	575684.2768
60375	638+56.84	-65.0000	545263.0616	575682.1539

ADDENDUMS / REVISIONS

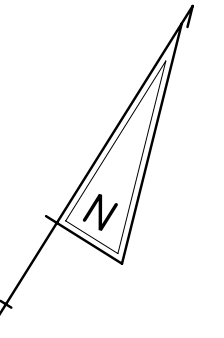


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT	BRIDGE NO.	1-10
T200911301	DESIGNED BY:	WJD
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

GRADES & GEOMETRICS

GG-07
SHEET NO.
49
TOTAL SHTS.
240



PROPOSED
STORMWATER
MANAGEMENT
FACILITY
BMP #704

DRAFT

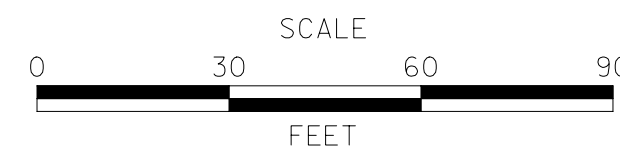
NOT FOR BIDDING

AUGUST 2015

\$FILES \$DATES



ADDENDUMS / REVISIONS

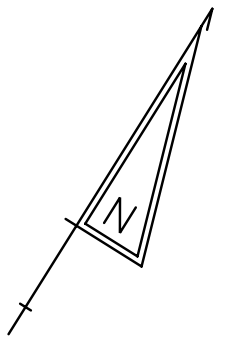


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: WJD
NEW CASTLE	CHECKED BY: MAA

GRADES & GEOMETRICS

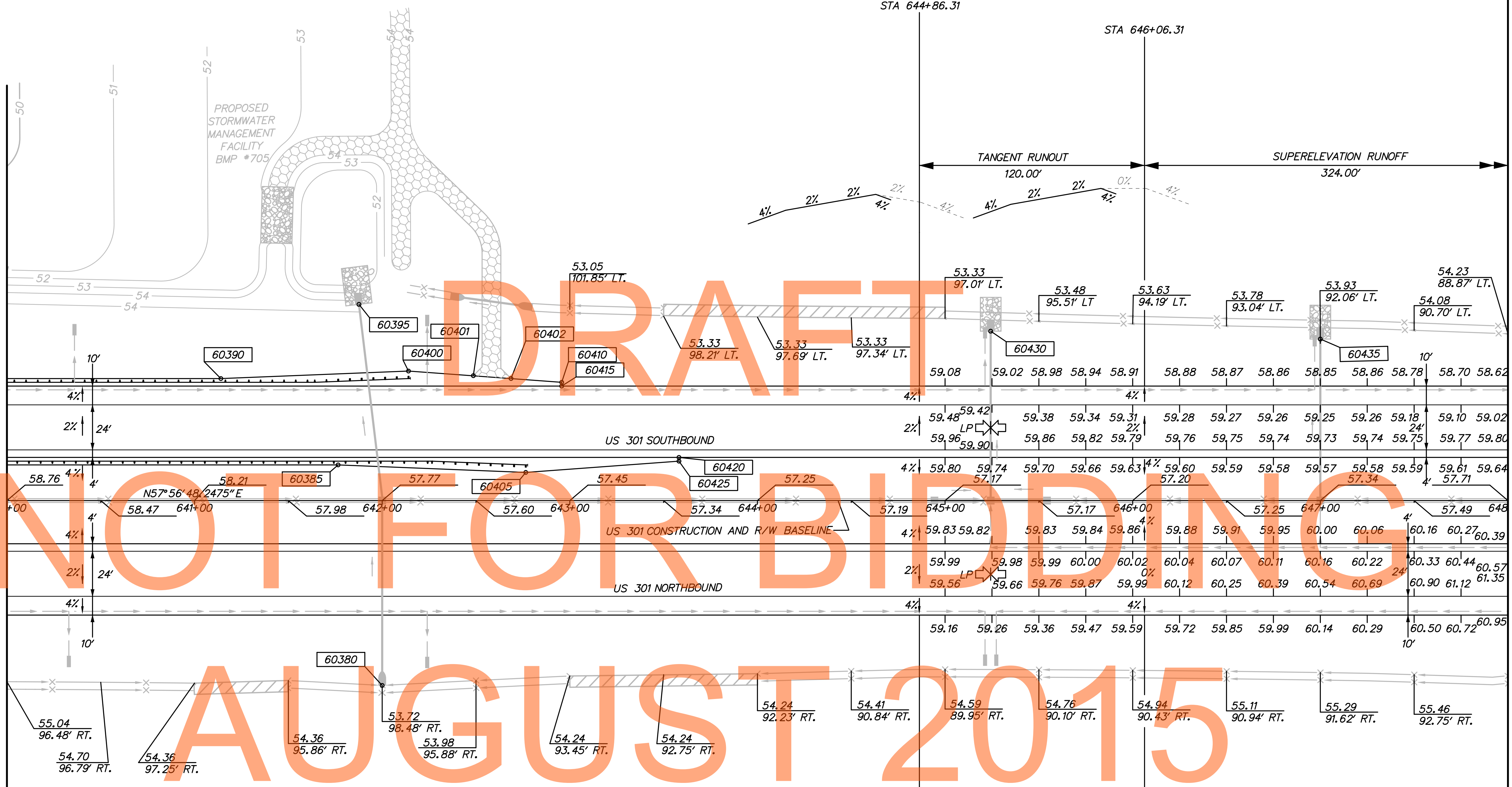
GG-08
SHEET NO.
50
TOTAL SHTS.
240



MATCH LINE STA. 640+00

MATCH LINE SHEET GG-08

MATCH LINE STA. 648+00

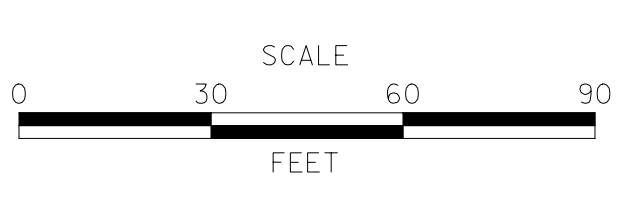


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60380	642+00.00	98.4797	545306.6203	576059.7596
60385	641+76.51	-19.0000	545393.7253	575977.5045
60390	641+14.01	-65.0000	545399.5436	575900.1197
60395	641+87.61	-104.5498	545472.1257	575941.5126
60400	642+14.01	-69.0000	545456.0046	575982.7524
60401	642+48.58	-66.5385	545472.2650	576013.3589
60402	642+68.67	-65.0291	545481.6451	576031.1832
60405	642+76.51	-15.0000	545443.4059	576064.3828
60410	642+95.67	-63.0000	545494.2556	576055.1461
60415	642+95.67	-61.0000	545492.5605	576056.2075
60420	643+58.17	-23.0000	545493.5227	576129.3466
60425	643+58.17	-21.0000	545491.8275	576130.4080
60430	645+24.31	-90.2586	545638.7001	576234.4653
60435	647+00.00	-86.0649	545728.3857	576385.5980

\$FILES \$DATES



ADDENDUMS / REVISIONS	

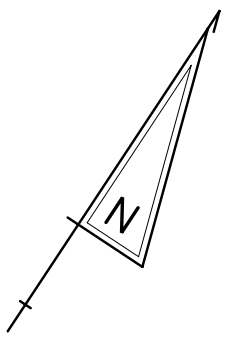


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

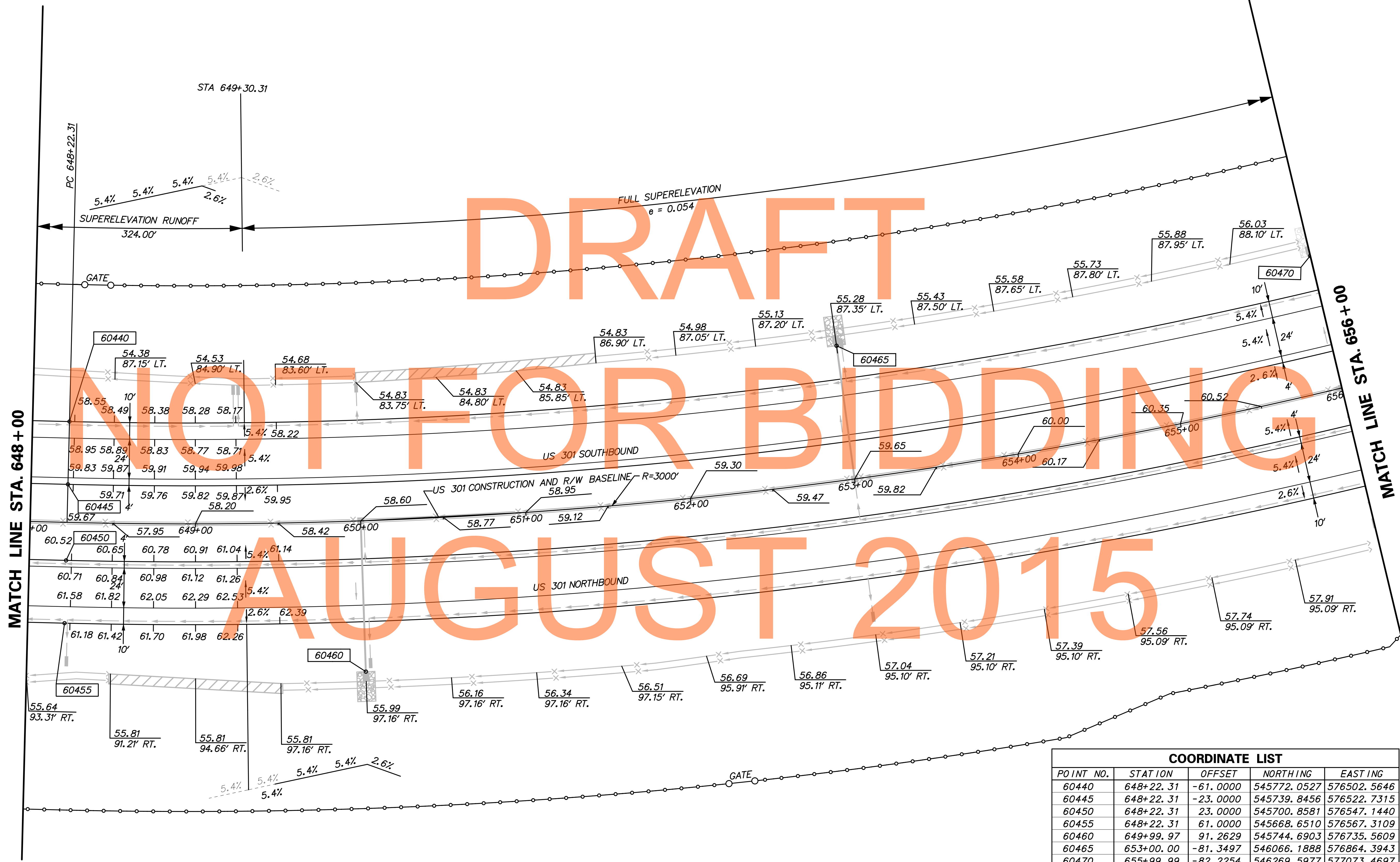
GG-09
SHEET NO. 51
TOTAL SHTS. 240



DRAFT

NOT FOR BIDDING

AUGUST 2015



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60440	648+22.31	-61.0000	545772.0527	576502.5646
60445	648+22.31	-23.0000	545739.8456	576522.7315
60450	648+22.31	23.0000	545700.8581	576547.1440
60455	648+22.31	61.0000	545668.6510	576567.3109
60460	649+99.97	91.2629	545744.6903	576735.5609
60465	653+00.00	-81.3497	546066.1888	576864.3943
60470	655+99.99	-82.2254	546269.5977	577073.4697

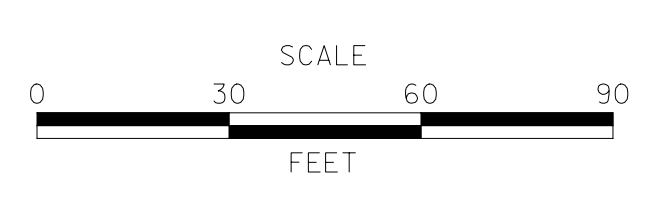
SFILES

MATCH LINE STA. 648 + 00

MATCH LINE STA. 656 + 00



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

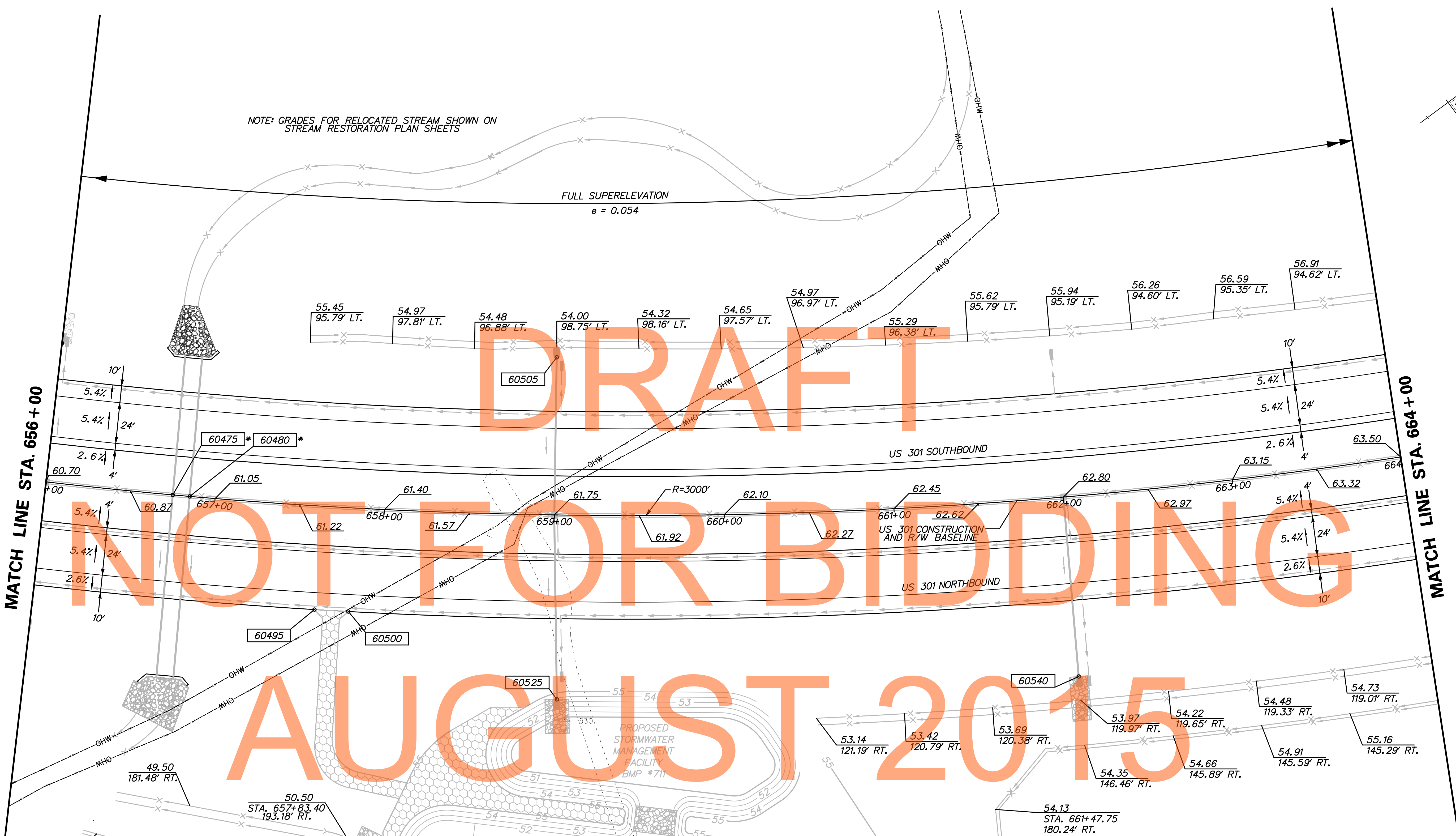
CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-10
SHEET NO. 52
TOTAL SHTS. 240

NOTE: GRADES FOR RELOCATED STREAM SHOWN ON
STREAM RESTORATION PLAN SHEETS

FULL SUPERELEVATION
 $e = 0.054$



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 60475	656+75.00	0.0000	546268.8295	577184.0686
* 60480	656+85.00	0.0000	546276.3114	577190.7035
60495	657+62.38	61.0000	546295.7420	577287.9273
60500	567+81.98	61.0000	546311.1065	577300.7311
60505	659+00.00	-92.7532	546498.6621	577253.4724
60525	659+03.00	108+5024	546378.9944	577415.3133
60540	662+00.00	105.9690	546633.9268	577587.2640

*NOTE: SEE BR 1-444A DETAILS FOR HEADWALL LAYOUT COORDINATES.

MATCH LINE SHEET GG-12



ADDENDUMS / REVISIONS



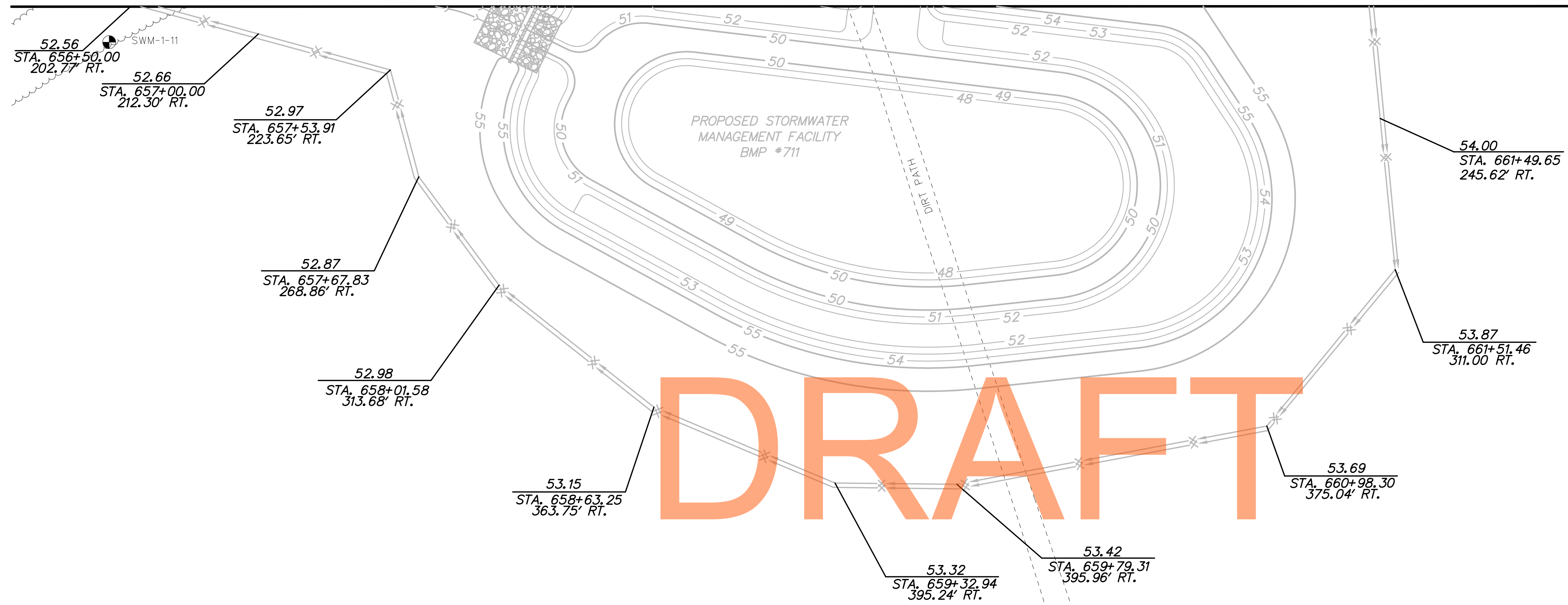
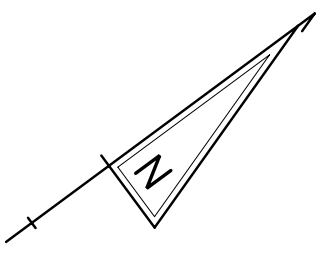
US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT T200911301	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY: WJD	
	CHECKED BY: MAA	

GRADES & GEOMETRICS

GG-11
SHEET NO. 53
TOTAL SHTS. 240

MATCH LINE SHEET GG-11



DRAFT

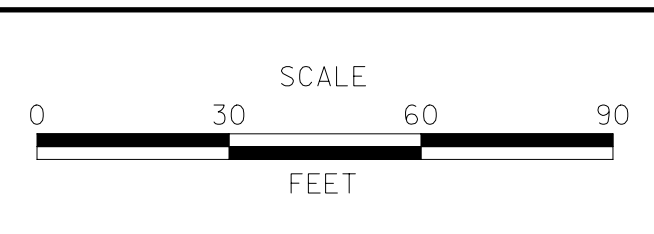
NOT FOR BIDDING

AUGUST 2015

\$FILES \$DATES



ADDENDUMS / REVISIONS	



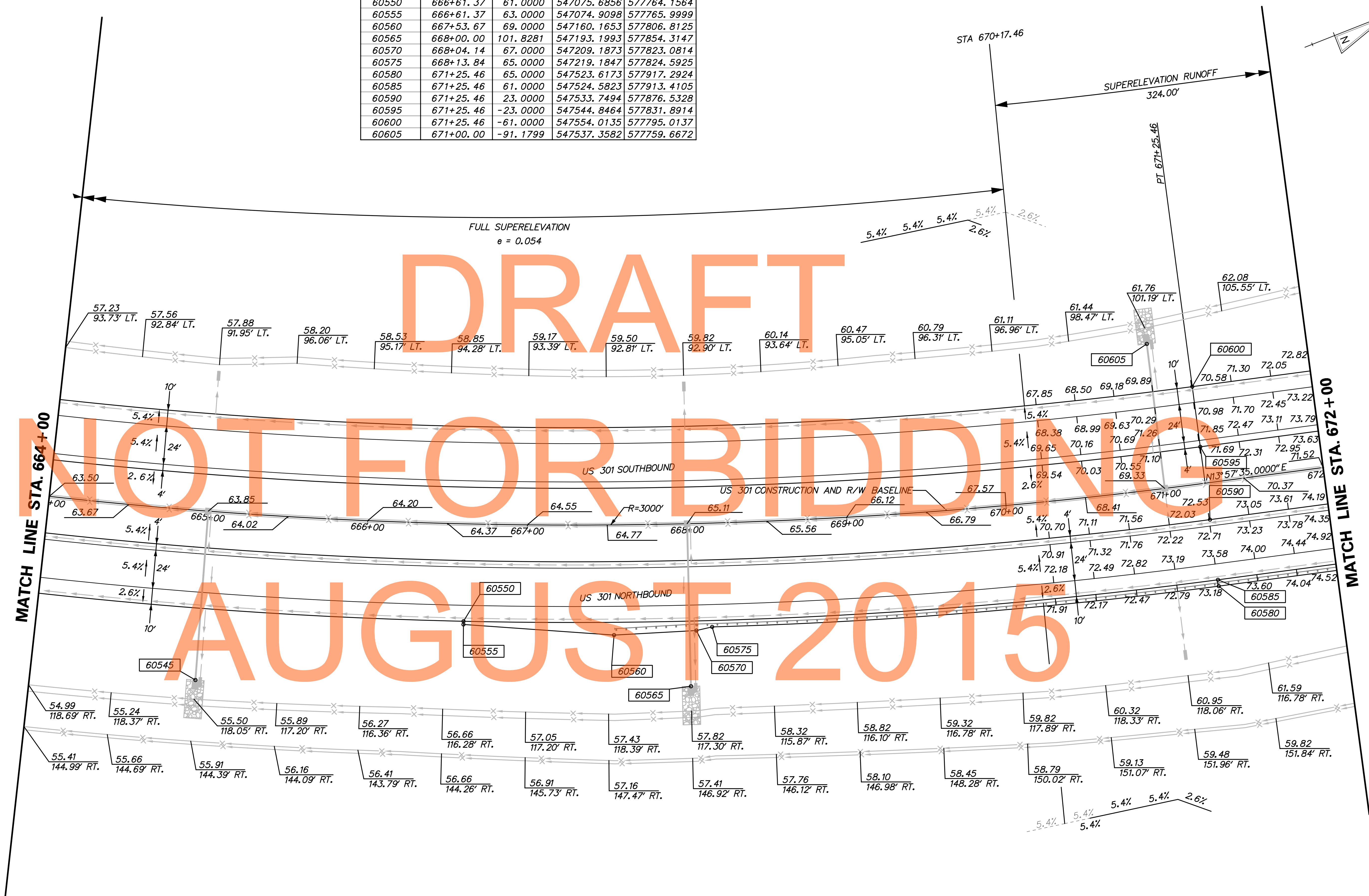
**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-12
SHEET NO. 54
TOTAL SHTS. 240

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60545	665+00.00	106.0508	546906.0341	577736.7641
60550	666+61.37	61.0000	547075.6856	577764.1564
60555	666+61.37	63.0000	547074.9098	577765.9999
60560	667+53.67	69.0000	547160.1653	577806.8125
60565	668+00.00	101.8281	547193.1993	577854.3147
60570	668+04.14	67.0000	547209.1873	577823.0814
60575	668+13.84	65.0000	547219.1847	577824.5925
60580	671+25.46	65.0000	547523.6173	577917.2924
60585	671+25.46	61.0000	547524.5823	577913.4105
60590	671+25.46	23.0000	547533.7494	577876.5328
60595	671+25.46	-23.0000	547544.8464	577831.8914
60600	671+25.46	-61.0000	547554.0135	577795.0137
60605	671+00.00	-91.1799	547537.3582	577759.6672

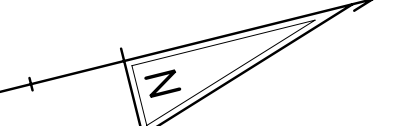


\$FILES \$DATES

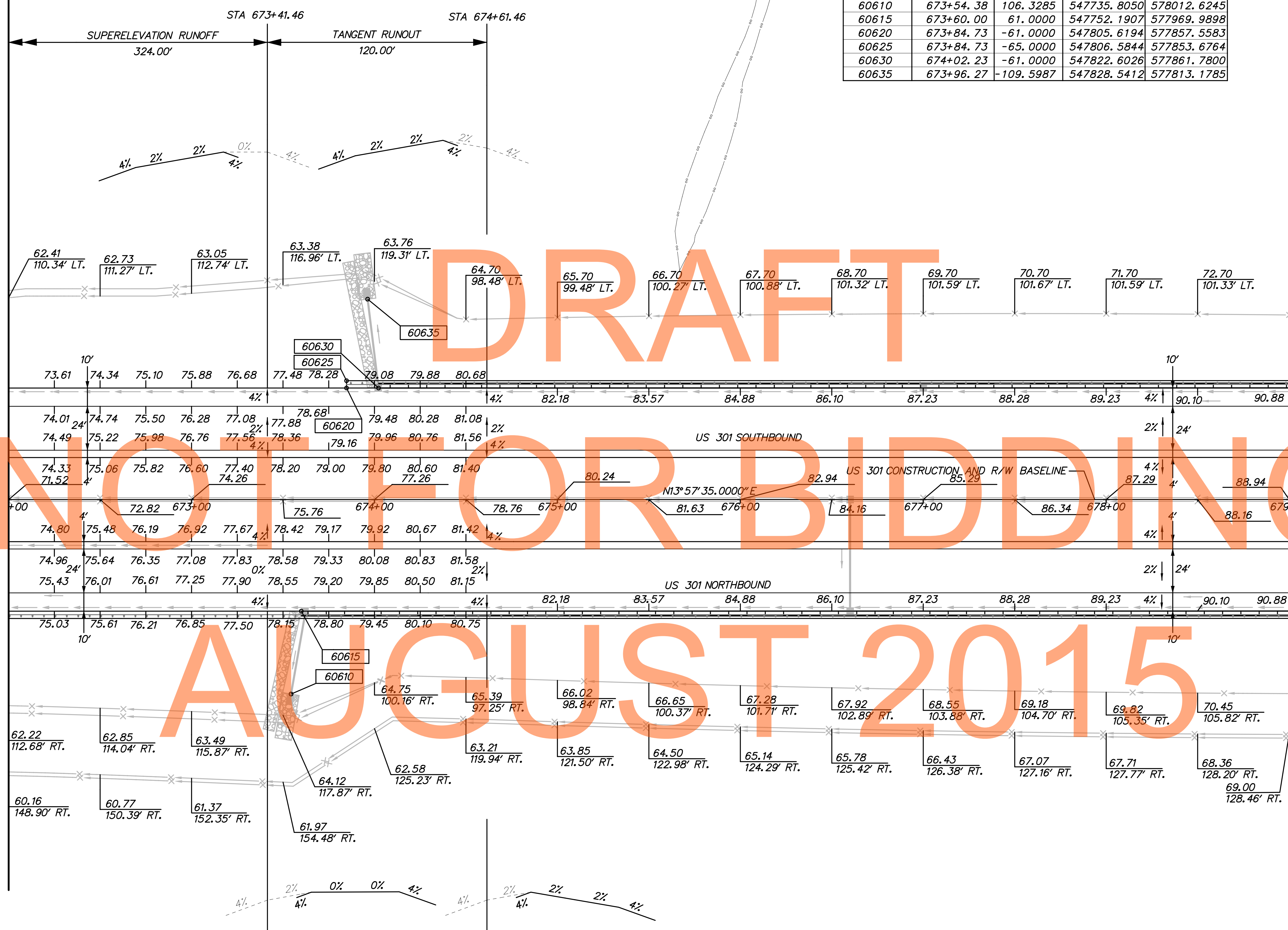
MATCH LINE STA. 664+00

MATCH LINE STA. 672+00

DRAFT
NOT FOR BIDDING
AUGUST 2015



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60610	673+54.38	106.3285	547735.8050	578012.6245
60615	673+60.00	61.0000	547752.1907	577969.9898
60620	673+84.73	-61.0000	547805.6194	577857.5583
60625	673+84.73	-65.0000	547806.5844	577853.6764
60630	674+02.23	-61.0000	547822.6026	577861.7800
60635	673+96.27	-109.5987	547828.5412	577813.1785



MATCH LINE STA. 672+00

MATCH LINE STA. 679+00

DRAFT

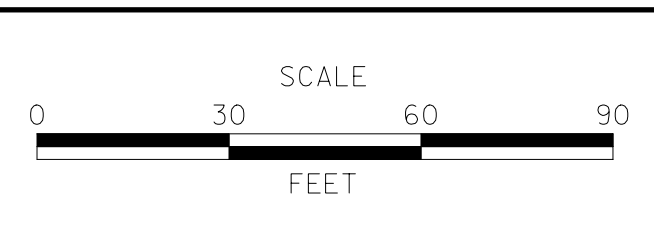
FOR BIDDING

AUGUST 2015

\$FILES \$DATES



ADDENDUMS / REVISIONS	

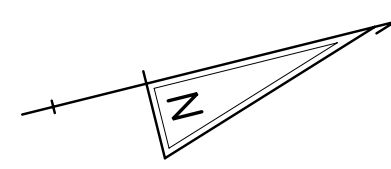


**US 301,
NORFOLK SOUTHERN RR TO SR 896**

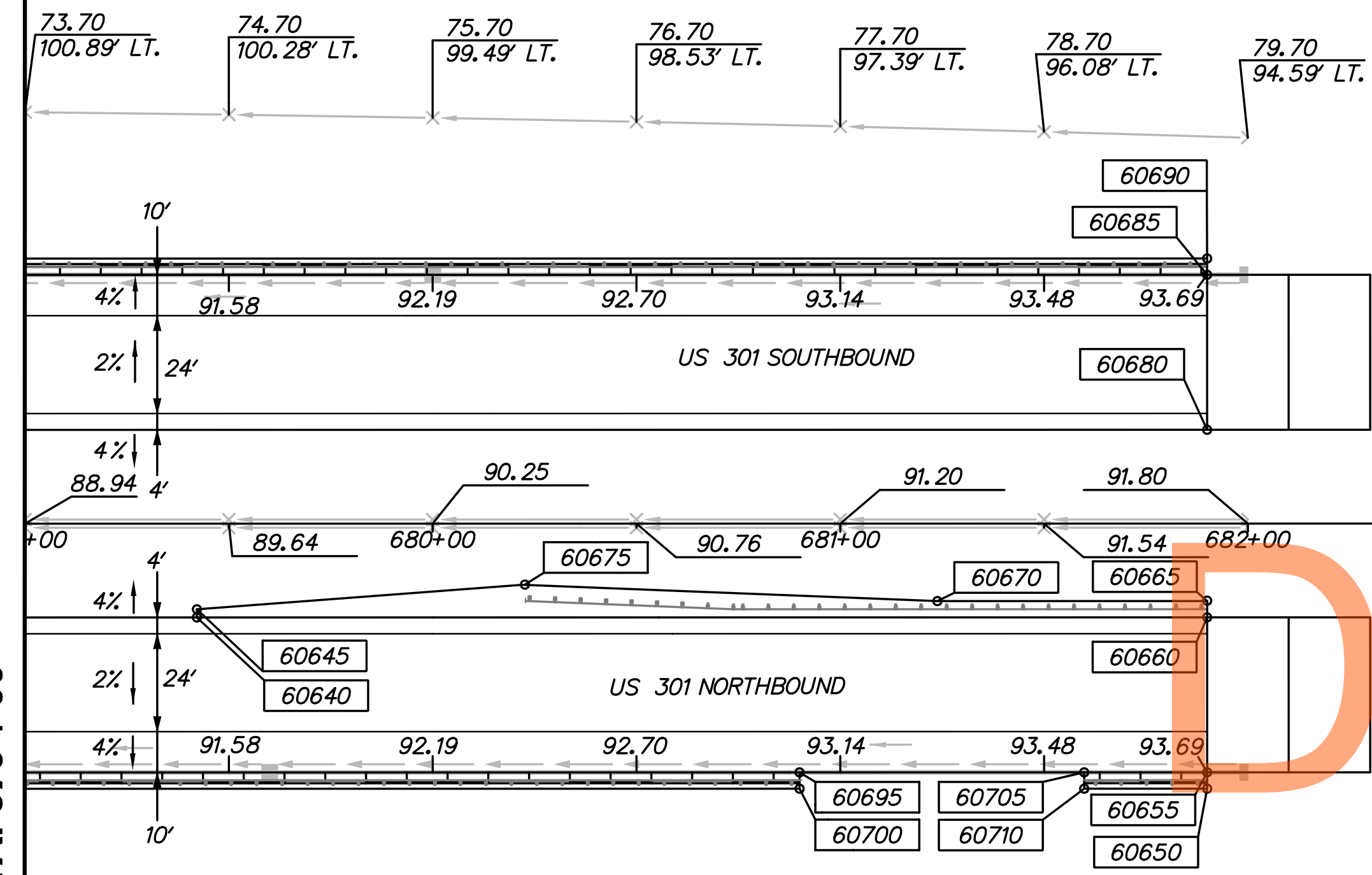
CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-14
SHEET NO. 56
TOTAL SHTS. 240



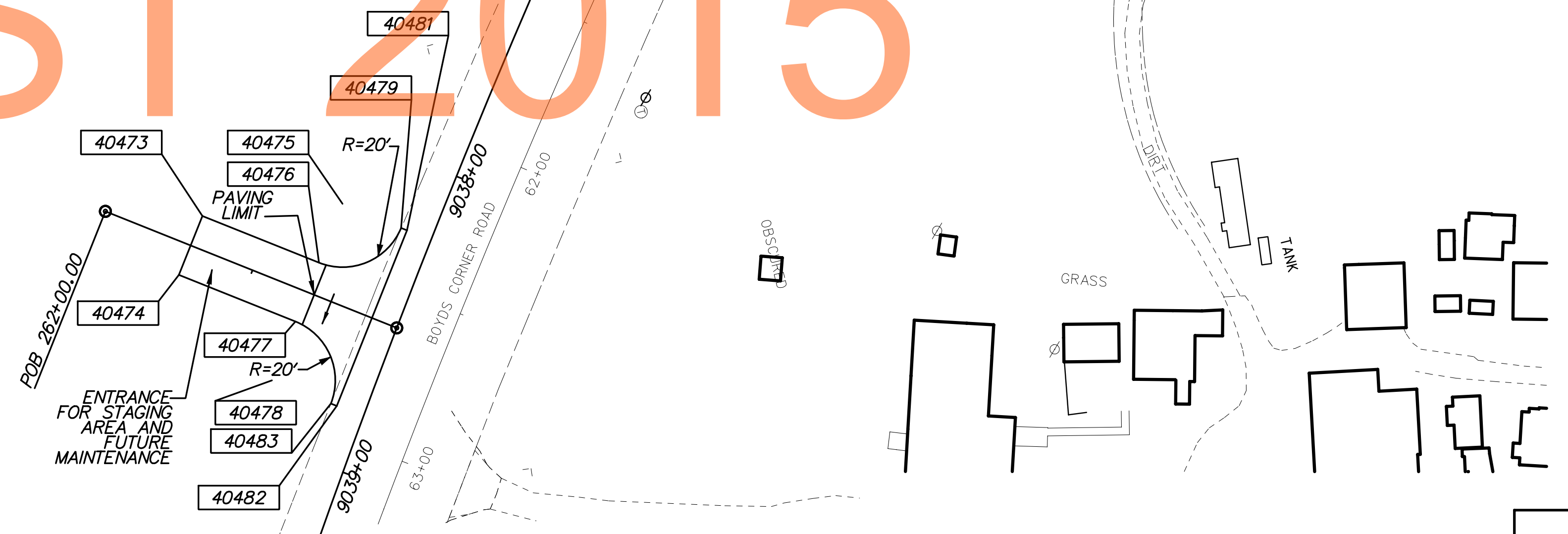
MATCH LINE STA. 679+00



DRAFT
NOT FOR BIDDING
AUGUST 2015

**END
CONTRACT T200911301
STATION 687+72.79**

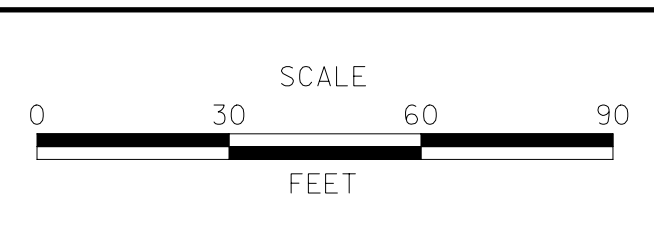
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60640	679+42.16	23.0000	548326.3246	578073.5523
60645	679+42.16	21.0000	548326.8071	578071.6114
60650	681+90.00	65.0000	548556.7122	578174.1006
60655	681+90.00	61.0000	548557.6772	578170.2188
60660	681+90.00	23.0000	548566.8443	578133.3411
60665	681+90.00	19.0000	548567.8092	578129.4592
60670	681+23.82	19.0000	548503.5821	578113.4935
60675	680+22.00	15.0000	548405.7398	578085.0500
60680	681+90.00	-23.0000	548577.9413	578088.6996
60685	681+90.00	-61.0000	548587.1084	578051.8220
60690	681+90.00	-65.0000	548588.0734	578047.9401
60695	680+90.00	61.0000	548460.6310	578146.0949
60700	680+90.00	65.0000	548459.6661	578149.9767
60705	681+59.83	61.0000	548528.4028	578162.9417
60710	681+59.83	65.0000	548527.4378	578166.8237
40473	262+28.97	-10.0000	548679.7160	578449.6973
40474	262+28.97	10.0000	548668.0278	578465.9265
40475	262+68.58	-30.0000	548723.5446	578456.6155
40476	262+68.58	-10.0000	548711.8564	578472.8447
40477	262+68.58	10.0000	548700.1692	578489.0746
40478	262+68.58	30.0000	548688.4810	578505.3038
40479	262+88.58	-29.7732	548739.6402	578468.4870
40481	262+90.58	-29.7733	548741.2632	578469.6558
40482	262+90.58	29.8847	548706.4002	578518.0670
40483	262+88.58	29.8847	548704.7773	578516.8982



\$FILES \$DATES



ADDENDUMS / REVISIONS	



**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT T200911301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WJD
	CHECKED BY: MAA

GRADES & GEOMETRICS

GG-15
SHEET NO. 57
TOTAL SHTS. 240