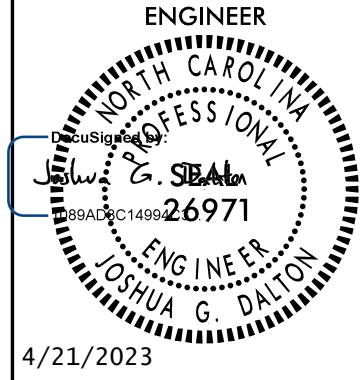
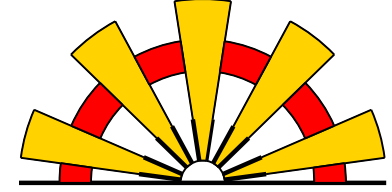


PROJECT REFERENCE NO. <i>R-2707D</i>	SHEET NO. <i>2D-7</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
4/21/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 859-2243
 ENG FIRM LICENSE NO. C-890

DETAIL #60 STORMWATER TIE IN TO STREAM STRUCTURE

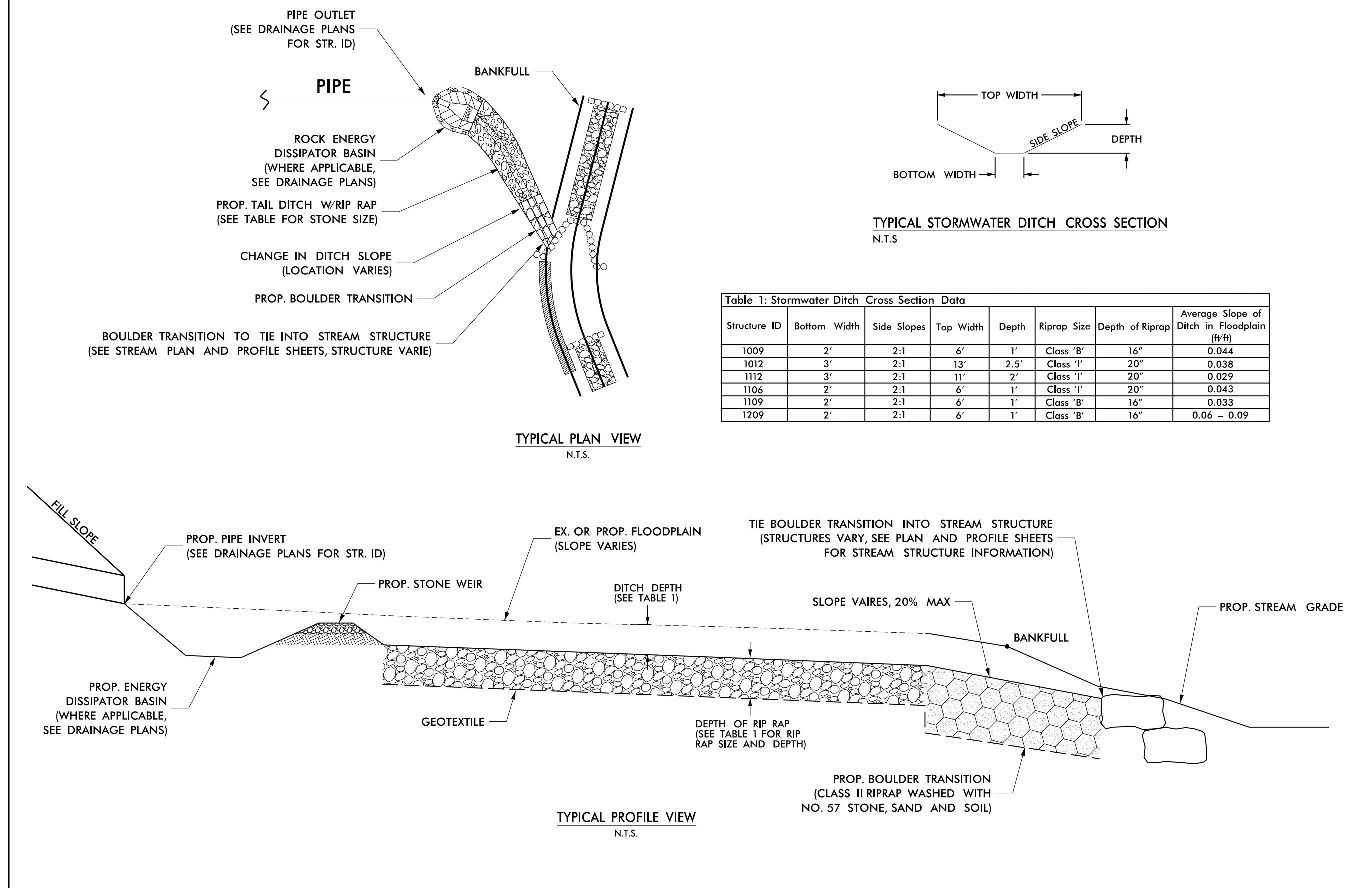
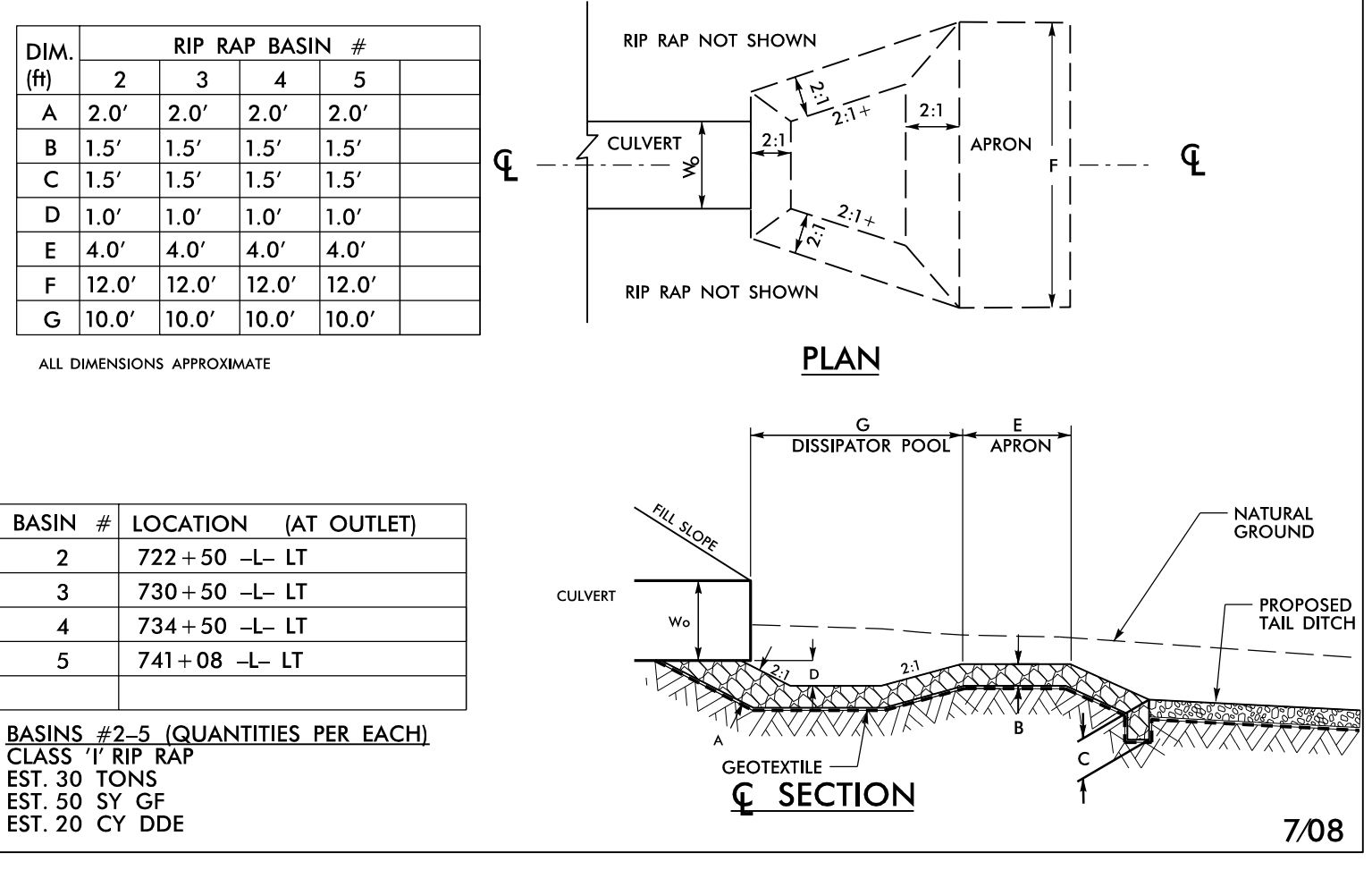


Table 1: Stormwater Ditch Cross Section Data

Structure ID	Bottom Width	Side Slopes	Top Width	Depth	Riprap Size	Depth of Riprap	Average Slope of Ditch in Floodplain (ft/ft)
1009	2'	2:1	6'	1'	Class 'B'	16"	0.044
1012	3'	2:1	13'	2.5'	Class 'I'	20"	0.038
1112	3'	2:1	11'	2'	Class 'I'	20"	0.029
1106	2'	2:1	6'	1'	Class 'I'	20"	0.043
1109	2'	2:1	6'	1'	Class 'B'	16"	0.033
1209	2'	2:1	6'	1'	Class 'B'	16"	0.06 - 0.09

DETAIL #59 RIP-RAPPED ENERGY DISSIPATOR BASIN (OUTLET TO TAIL DITCH)



BASIN #	LOCATION (AT OUTLET)
2	722+50 -L- LT
3	730+50 -L- LT
4	734+50 -L- LT
5	741+08 -L- LT

BASINS #2-5 (QUANTITIES PER EACH)
 CLASS 'I' RIP RAP
 EST. 30 TONS
 EST. 50 SY GF
 EST. 20 CY DDE

