Docusign Envelope ID: 6B672DD6-E5AD-42A7-B915-B81085DEBF1D

11/14/23

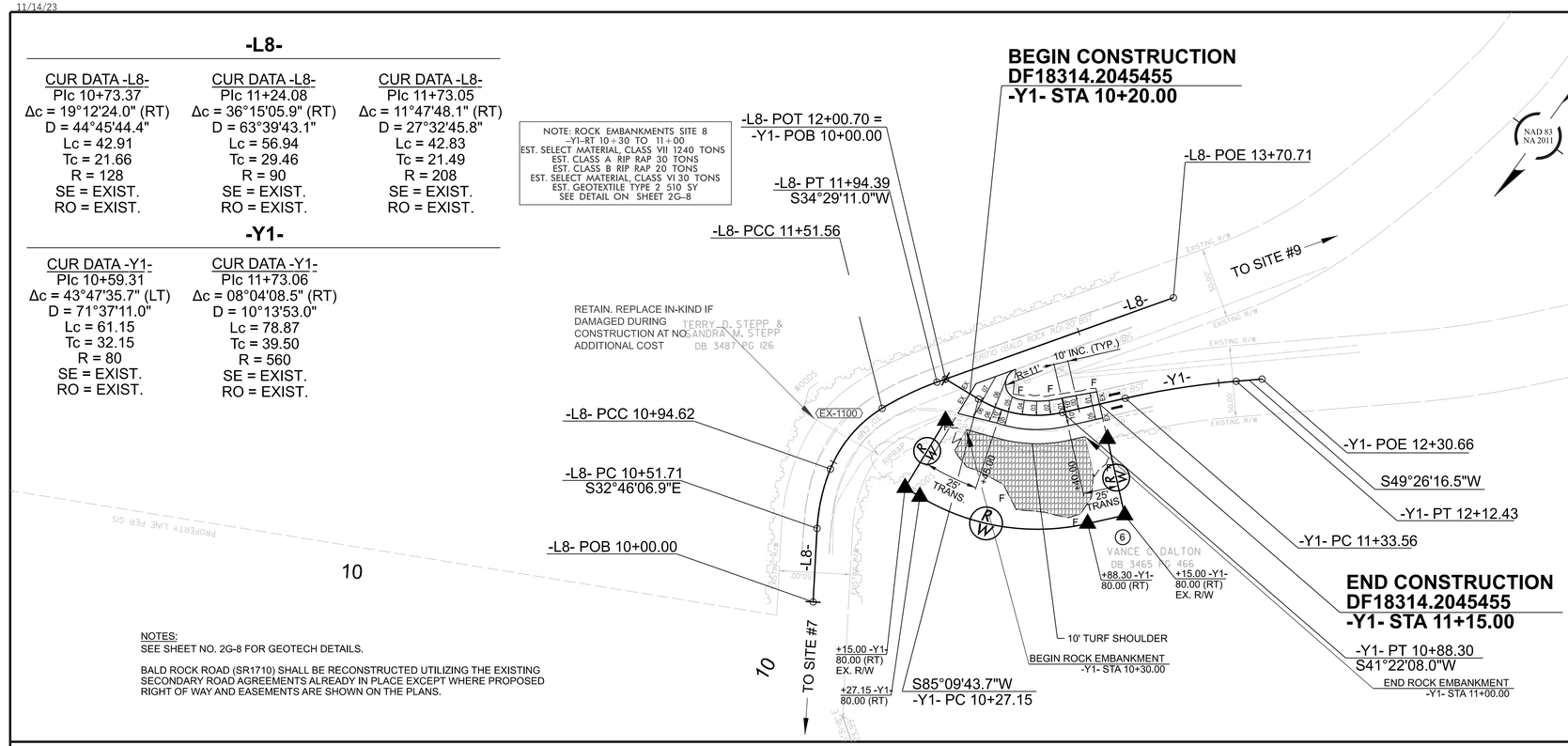
-L8-

CUR DATA -L8-	CUR DATA -L8-	CUR DATA -L8-
PIc 10+73.37	PIc 11+24.08	PIc 11+73.05
Δc = 19°12'24.0" (RT)	Δc = 36°15'05.9" (RT)	Δc = 11°47'48.1" (RT)
D = 44°45'44.4"	D = 63°39'43.1"	D = 27°32'45.8"
Lc = 42.91	Lc = 56.94	Lc = 42.83
Tc = 21.66	Tc = 29.46	Tc = 21.49
R = 128	R = 90	R = 208
SE = EXIST.	SE = EXIST.	SE = EXIST.
RO = EXIST.	RO = EXIST.	RO = EXIST.

-Y1-

CUR DATA -Y1-	CUR DATA -Y1-
PIc 10+59.31	PIc 11+73.06
Δc = 43°47'35.7" (LT)	Δc = 08°04'08.5" (RT)
D = 71°37'11.0"	D = 10°13'53.0"
Lc = 61.15	Lc = 78.87
Tc = 32.15	Tc = 39.50
R = 80	R = 560
SE = EXIST.	SE = EXIST.
RO = EXIST.	RO = EXIST.

NOTE: ROCK EMBANKMENTS SITE 8
-Y1-RT 10+30 TO 11+00
EST. SELECT MATERIAL, CLASS VII 1240 TONS
EST. CLASS A RIP RAP 30 TONS
EST. CLASS B RIP RAP 20 TONS
EST. SELECT MATERIAL, CLASS VI 30 TONS
EST. GEOTEXTILE TYPE 2 510 SY
SEE DETAIL ON SHEET 2G-8



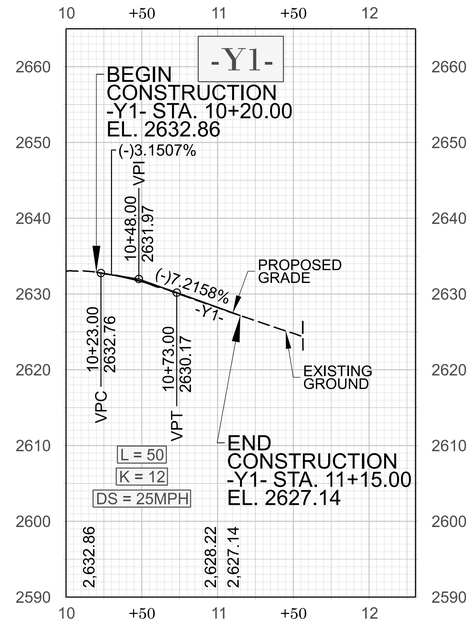
NOTES:
SEE SHEET NO. 2G-8 FOR GEOTECH DETAILS.

BALD ROCK ROAD (SR1710) SHALL BE RECONSTRUCTED UTILIZING THE EXISTING SECONDARY ROAD AGREEMENTS ALREADY IN PLACE EXCEPT WHERE PROPOSED RIGHT OF WAY AND EASEMENTS ARE SHOWN ON THE PLANS.

30" CMP -L8- 11+20
PIPE HYDRAULIC DATA EX-1100

DESIGN DISCHARGE	=	34 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	2625.6 FT
BASE DISCHARGE	=	41 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	2626.8 FT
OVERTOPPING DISCHARGE	=	54 CFS
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING ELEVATION	=	2629.6 FT

*OT IS LT ROADWAY SHOULDER (HIGH SIDE).



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FINAL | 11

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HENDERSON COUNTY

HIGHWAY DIVISION 14

ROADWAY DESIGN ENGINEER
7/29/2024
NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI L. HONEYCUTT
Signed by: Nikki Honeycutt
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER
7/29/2024
NORTH CAROLINA PROFESSIONAL SEAL 049338 ENGINEER ERIK P. AADLAND
Signed by: Erik P. Aadland
1519966248D8491...

PREPARED BY
KCA
KISINGER CAMPO & ASSOCIATES
NC FIRM LICENSE No: C-1506
301 Fayettville St., Suite 1500
Raleigh, NC 27601
(919)882-7839

REVISIONS