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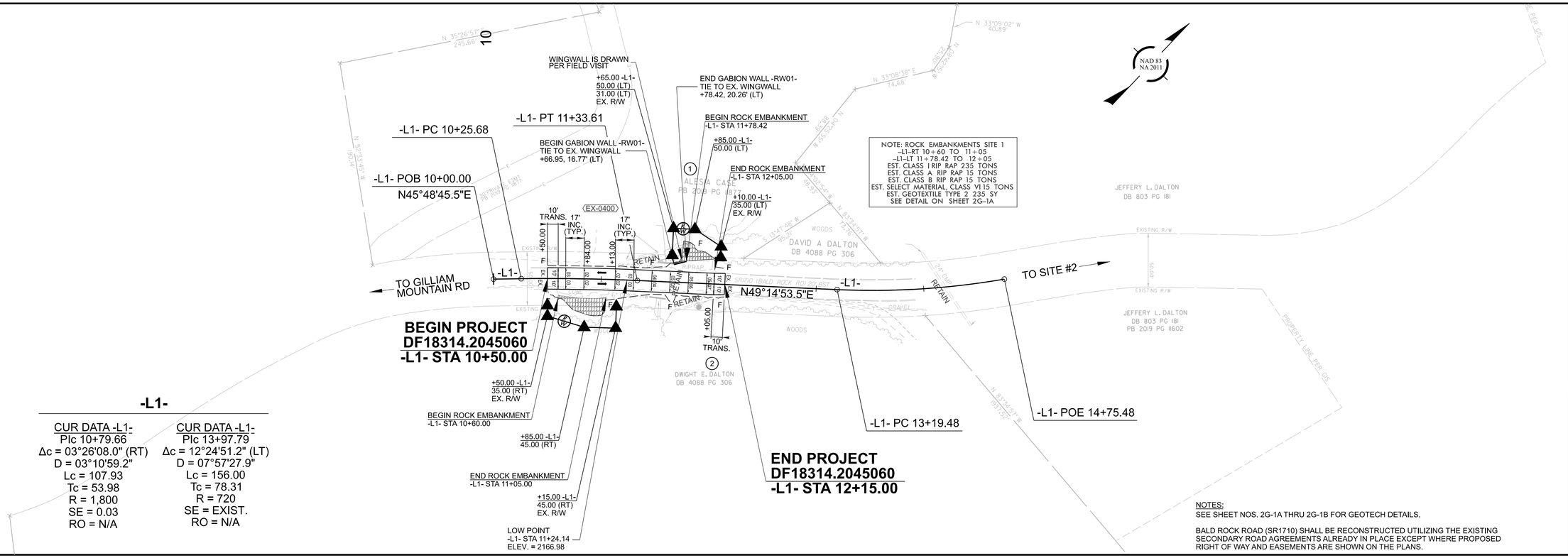
11/14/23




**-L1-**

| CUR DATA -L1- | CUR DATA -L1- |
|---|---|
| Plc 10+79.66 | Plc 13+97.79 |
| Δc = 03°26'08.0" (RT) | Δc = 12°24'51.2" (LT) |
| D = 03°10'59.2" | D = 07°57'27.9" |
| Lc = 107.93 | Lc = 156.00 |
| Tc = 53.98 | Tc = 78.31 |
| R = 1,800 | R = 720 |
| SE = 0.03 | SE = EXIST. |
| RO = N/A | RO = N/A |

NOTE: ROCK EMBANKMENTS SITE 1
-L1-RT 10+60 TO 11+05
-L1-LT 11+78.42 TO 12+05
EST. CLASS I RIP RAP 235 TONS
EST. CLASS A RIP RAP 15 TONS
EST. CLASS B RIP RAP 15 TONS
EST. SELECT MATERIAL, CLASS VI 15 TONS
EST. GEOTEXTILE TYPE 2 235 SY
SEE DETAIL ON SHEET 2G-1A

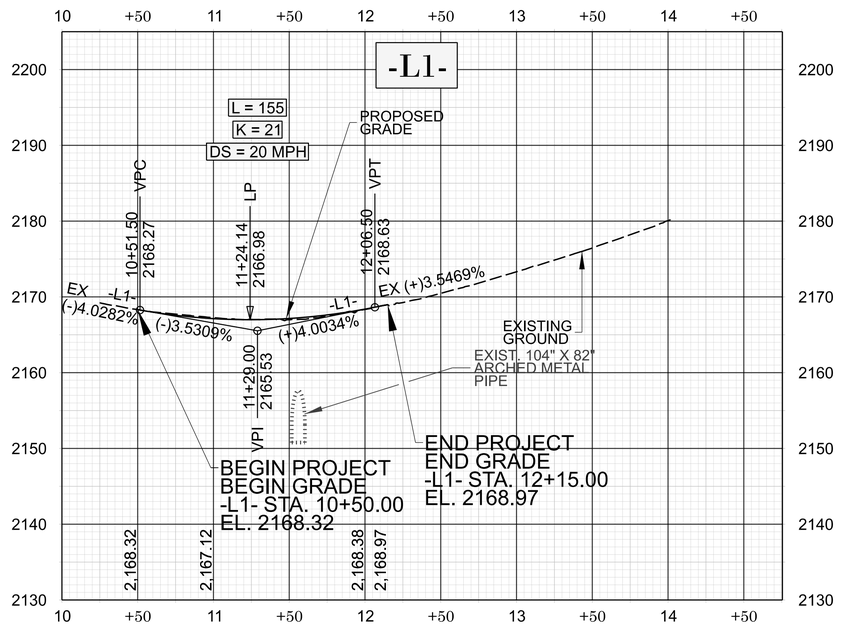
NOTES:
SEE SHEET NOS. 2G-1A THRU 2G-1B FOR GEOTECH DETAILS.

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.

104" X 82" ARCHED METAL PIPE -L1- 11+58
PIPE HYDRAULIC DATA EX-0400

| | | |
|---|---|---|
| DESIGN DISCHARGE | = | 120 CFS |
| DESIGN FREQUENCY | = | 25 YRS |
| DESIGN HW ELEVATION | = | 2154.2 FT |
| BASE DISCHARGE | = | 190 CFS |
| BASE FREQUENCY | = | 100 YRS |
| BASE HW ELEVATION | = | 2155.2 FT |
| OVERTOPPING DISCHARGE | = | 277 CFS |
| OVERTOPPING FREQUENCY | = | 500+ YRS |
| OVERTOPPING ELEVATION | = | 2167.0 FT* |

*OT IS ROADWAY CREST.

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FINAL | 4

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
HENDERSON COUNTY

HIGHWAY DIVISION 14

ROADWAY DESIGN ENGINEER
7/29/2025
NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI L. HONEYCUTT
Signed by: Nikki Honeycutt
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER
7/29/2025
NORTH CAROLINA PROFESSIONAL SEAL 049338 ENGINEER ERIK P. AADLAND
Signed by: Erik P. Aadland
4410D6E74D0E401...

PREPARED BY
KCA KISINGER CAMPO & ASSOCIATES
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Raleigh, NC 27601
(919)882-7839

REVISIONS