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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 17BP.14.R.205 | 4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| SEAL 35018 ENGINEER JIMMY L. TERRY 6/11/2021 | SEAL 038697 ENGINEER DAVID B. PETTY 6/11/2021 |

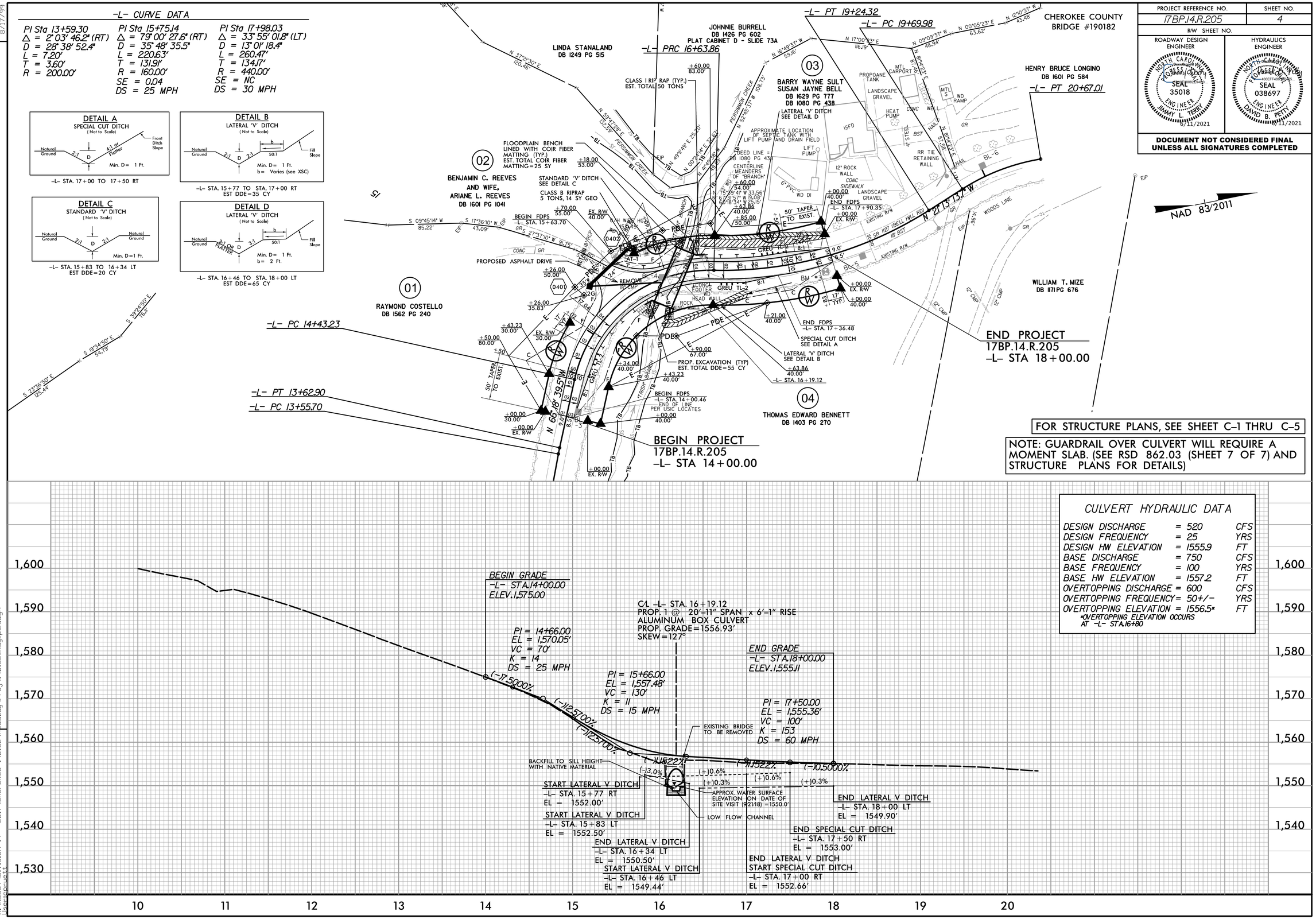
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

CHEROKEE COUNTY
BRIDGE #190182

## -L- CURVE DATA

| PI Sta 13+59.30 | PI Sta 15+75.14 | PI Sta 17+98.03 |
|---|---|---|
| Δ = 2° 03' 46.2" (RT) | Δ = 79° 00' 27.6" (RT) | Δ = 33° 55' 01.8" (LT) |
| D = 28° 38' 52.4" | D = 35° 48' 35.5" | D = 13° 01' 18.4" |
| L = 7.20' | L = 220.63' | L = 260.47' |
| T = 3.60' | T = 131.91' | T = 134.17' |
| R = 200.00' | R = 160.00' | R = 440.00' |
| | SE = 0.04 | SE = NC |
| | DS = 25 MPH | DS = 30 MPH |




FOR STRUCTURE PLANS, SEE SHEET C-1 THRU C-5

NOTE: GUARDRAIL OVER CULVERT WILL REQUIRE A MOMENT SLAB. (SEE RSD 862.03 (SHEET 7 OF 7) AND STRUCTURE PLANS FOR DETAILS)

## CULVERT HYDRAULIC DATA

| | | |
|---|---|---|
| DESIGN DISCHARGE | = 520 | CFS |
| DESIGN FREQUENCY | = 25 | YRS |
| DESIGN HW ELEVATION | = 1555.9 | FT |
| BASE DISCHARGE | = 750 | CFS |
| BASE FREQUENCY | = 100 | YRS |
| BASE HW ELEVATION | = 1557.2 | FT |
| OVERTOPPING DISCHARGE | = 600 | CFS |
| OVERTOPPING FREQUENCY | = 50+/- | YRS |
| OVERTOPPING ELEVATION | = 1556.5* | FT |

*OVERTOPPING ELEVATION OCCURS AT -L- STA.16+80




REVISIONS

8/17/99

6/11/2021
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jbergquist