

STA. 26+31.00
EL. 970.82
-1.0738%

SR 81 PROPOSED GRADE DATA

P.I. STA. = 30+45.64
 $\Delta = 15^\circ-11'-02.4''$ (LT)
 $D = 01^\circ-25'-05.56''$
 $T = 538.48'$
 $L = 1070.64'$
 $R = 4040.00'$
 $S.E. = 2\%$

P.I. STA. = 135+31.62 Δ
 $\Delta = 14^\circ-15'-03.6''$ (LT)
 $D = 00^\circ-45'-05.12''$
 $T = 953.19'$
 $L = 1896.54'$
 $R = 7624.97'$
 $S.E. = \text{MATCH EXISTING}$

SR 81 PROPOSED HORIZONTAL CURVE #1

SR 316 PROPOSED HORIZONTAL CURVE #1

PROPOSED BRIDGE CONSISTS OF

- 2 - 119'-3" BULB TEE, 54 IN., PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - PILE END BENTS ON MSE WALL ABUTMENTS ----- SPECIAL DESIGN
- 1 - CONCRETE INTERMEDIATE BENT ----- SPECIAL DESIGN

DESIGN DATA

SPECIFICATIONS ----- AASHTO LRFD 5TH EDITION, 2010
 TYPICAL HL-93 AND/OR MILITARY LOADING ----- IMPACT ALLOWED
 FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

TRAFFIC DATA

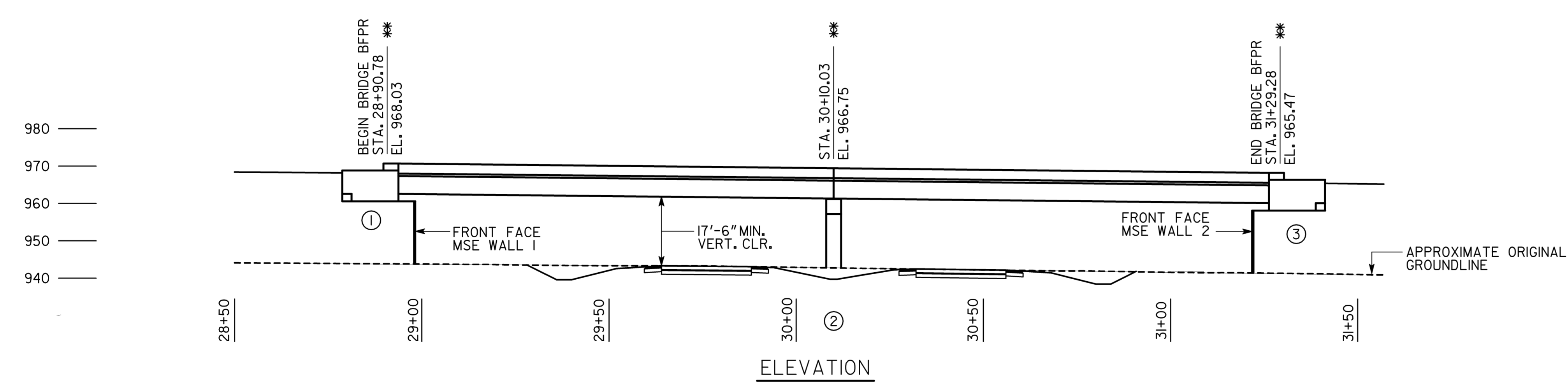
TRAFFIC ----- ADT = 19,100 (2020)
 ----- ADT = 28,300 (2040)
 DESIGN SPEED ----- 45 MPH
 TRUCKS ----- 15 %
 24 HR TRUCKS ----- 14 %
 DIRECTIONAL ----- 56 %

UTILITIES

NO UTILITIES ON BRIDGE

PROJECT P.J. NO. 0008429

BRIDGE NO. 1



* STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R. OR ϕ BENTS.

- NOTES:
1. ALL BENTS ARE PARALLEL TO BENT 2.
 2. END BENT PILES ARE NOT SHOWN.
 3. FENCE NOT SHOWN IN ELEVATION VIEW.
 4. "R" INDICATES RADIAL DIMENSION.

BENCHMARK CD3337
 3/8" IRON PIN IN GROUND
 82.84' RT. OF STA. 36+51.95
 $N = 1,436,133.861$
 $E = 2,422,119.561$
 ELEV. 942.48

BERM ELEVATIONS	
END BENT	ELEVATIONS
1 LT	959.24
1 RT	961.86
3 LT	956.68
3 RT	959.30

NOTE: FOR BRIDGE STAKING PURPOSES ONLY.

SR 316 GRADE DATA		
STATION	WB PGL	EB PGL
124+50	942.85	943.41
125+00	942.78	943.35
125+50	942.52	943.12
126+00	942.25	942.83
126+50	942.11	942.57

DRAWING NO. 35-001
 BRIDGE SHEET 1 OF 1

DATE	REVISIONS
11-12-13	1
2-26-14	2
	3

GEORGIA
DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT
 SR 81 OVER SR 316 (US 29)
 BARROW COUNTY CSNHS-0008-00(429)

SCALE: 1" = 20'-0" JUNE 2013

DESIGNED DLW	CHECKED SWW	REVIEWED WMD/DLC
DRAWN DLW	DESIGN GROUP SWW	APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN