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BRIDGE NO. 137

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.122	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 030952 ENGINEER JENNIFER D. FARINO — 3/30/2018

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 30108 ENGINEER WILL I. WEATHERSBEE — 3/27/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/NA 2011

-L- CURVE DATA

PI Sta 11+12.53
△ = 36° 37' 36.4" (RT)
D = 16° 51' 06.1"
L = 217.35'
T = 112.53'
R = 340.00'
V = 35 MPH
SE = 06

PI Sta 14+50.87
△ = 27° 59' 36.4" (LT)
D = 12° 43' 56.6'
L = 219.86'
T = 112.17'
R = 450.00'
V = 35 MPH
SE = 06

-DRIVE- CURVE DATA

PI Sta 10+34.07
△ = 9° 28' 44.1" (LT)
D = 39° 34' 57.3"
L = 23.95'
T = 12.00'
R = 144.75'

PI Sta 10+88.96
△ = 69° 29' 51.4" (RT)
D = 226° 54' 50.3"
L = 30.63'
T = 17.52'
R = 25.25'

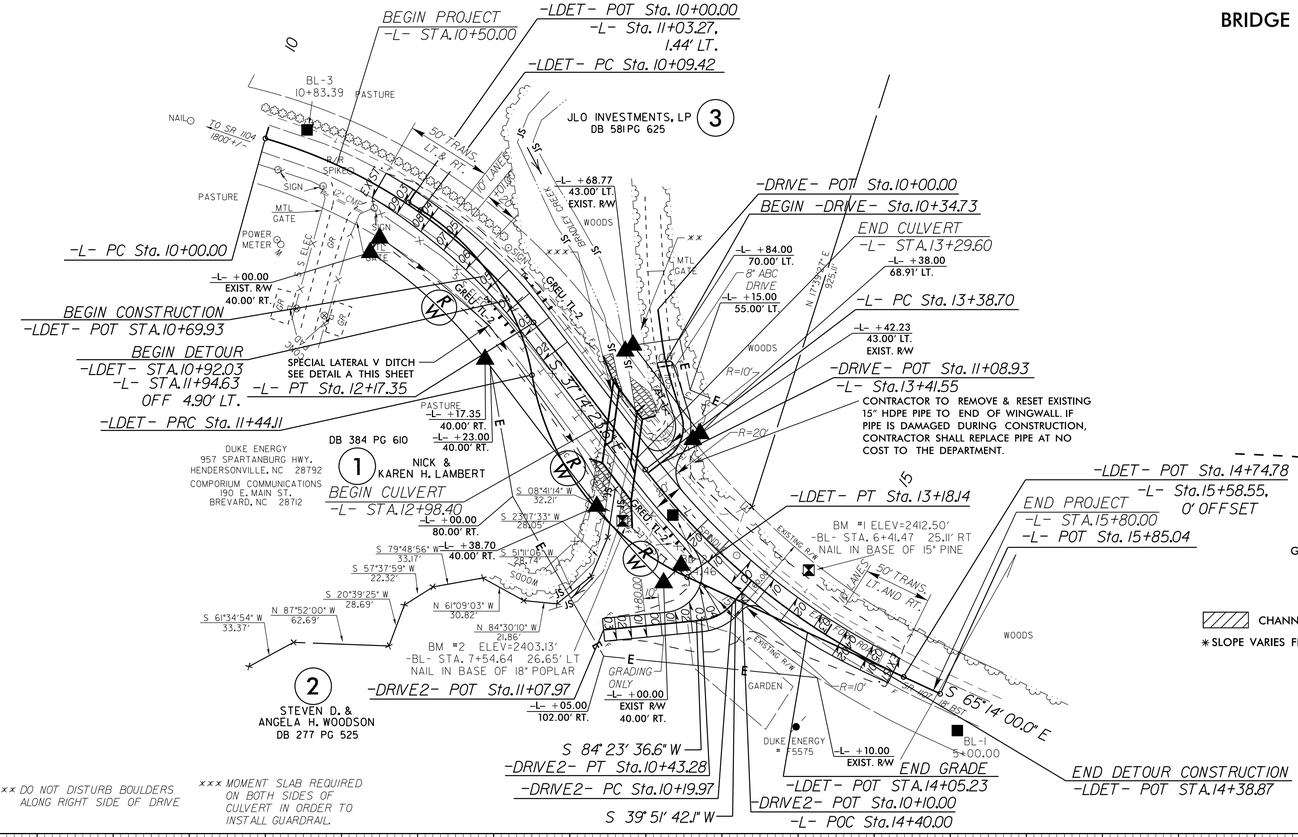
-DRIVE2- CURVE DATA

PI Sta 10+32.25
△ = 44° 31' 54.5" (RT)
D = 190° 59' 09.4"
L = 23.32'
T = 12.28'
R = 30.00'

-LDET- CURVE DATA

PI Sta 10+81.05
△ = 48° 13' 57.5" (RT)
D = 35° 48' 35.5"
L = 134.69'
T = 71.63'
R = 160.00'
V = 25 MPH
SE = 02

PI Sta 12+38.61
△ = 55° 23' 43.0" (LT)
D = 31° 49' 51.6"
L = 174.03'
T = 94.49'
R = 180.00'
V = 25 MPH
SE = 02

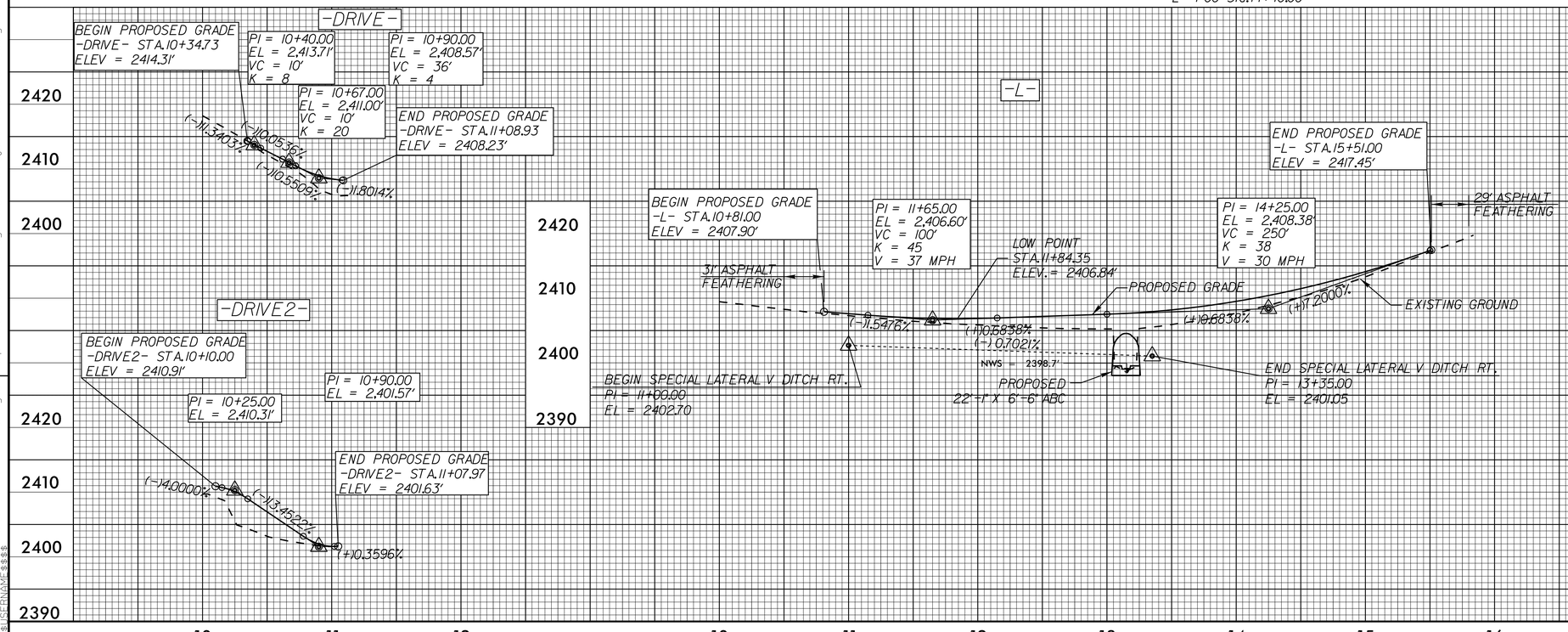


FOR DETOUR PLANS, SEE SHEET 2B-2

FOR CULVERT PLANS, SEE SHEET C-1 THRU C-3

** DO NOT DISTURB BOULDERS ALONG RIGHT SIDE OF DRIVE

*** MOMENT SLAB REQUIRED ON BOTH SIDES OF CULVERT IN ORDER TO INSTALL GUARDRAIL.



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 550	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 2403.4	FT
BASE DISCHARGE	= 800	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2405.29	FT
OVERTOPPING DISCHARGE	= 930	CFS
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING ELEVATION	= 2406.8	FT

BM #1
NAIL IN BASE OF 15" PINE
-BL- STA.6+41.47 25.11' RIGHT
-L- STA.14+66.07 28.68' LEFT
ELEV.= 2412.50'

BM #2
R/R NAIL IN BASE OF 18" POPLAR
-BL- STA.7+54.64 26.65' LEFT
-L- STA.13+55.20 32.73' RIGHT
ELEV.= 2403.13'

RIGHT DITCH ----------

REVISIONS

8/17/99

01-MAR-2018 11:20
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