DocuSign Envelope ID: 33814C6C-D204-40B8-8400-9CFB016793A1

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2409C	2B-2
R/W SHEET NO.	

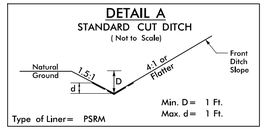
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22606 ENGINEER DAVID C. WALLER
DocuSigned by: David C. Waller 89AD3F7156C5436 10/22/2015

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 24451 ENGINEER STACEY H. BAILEY
DocuSigned by: Stacey H. Bailey CB56968C58E046E 10/23/2015

ICA Engineering
f/k/a Florence & Hutcheson, Inc.
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

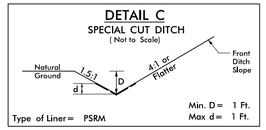
-DETOUR 1-

DETAIL A
STANDARD CUT DITCH
(Not to Scale)



FROM STA. 11+25 TO STA. 20+00 -DET1- LT
FROM STA. 17+00 TO STA. 20+00 -DET1- RT

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 20+00 TO STA. 21+50 -DET1- LT
FROM STA. 20+00 TO STA. 20+50 -DET1- RT

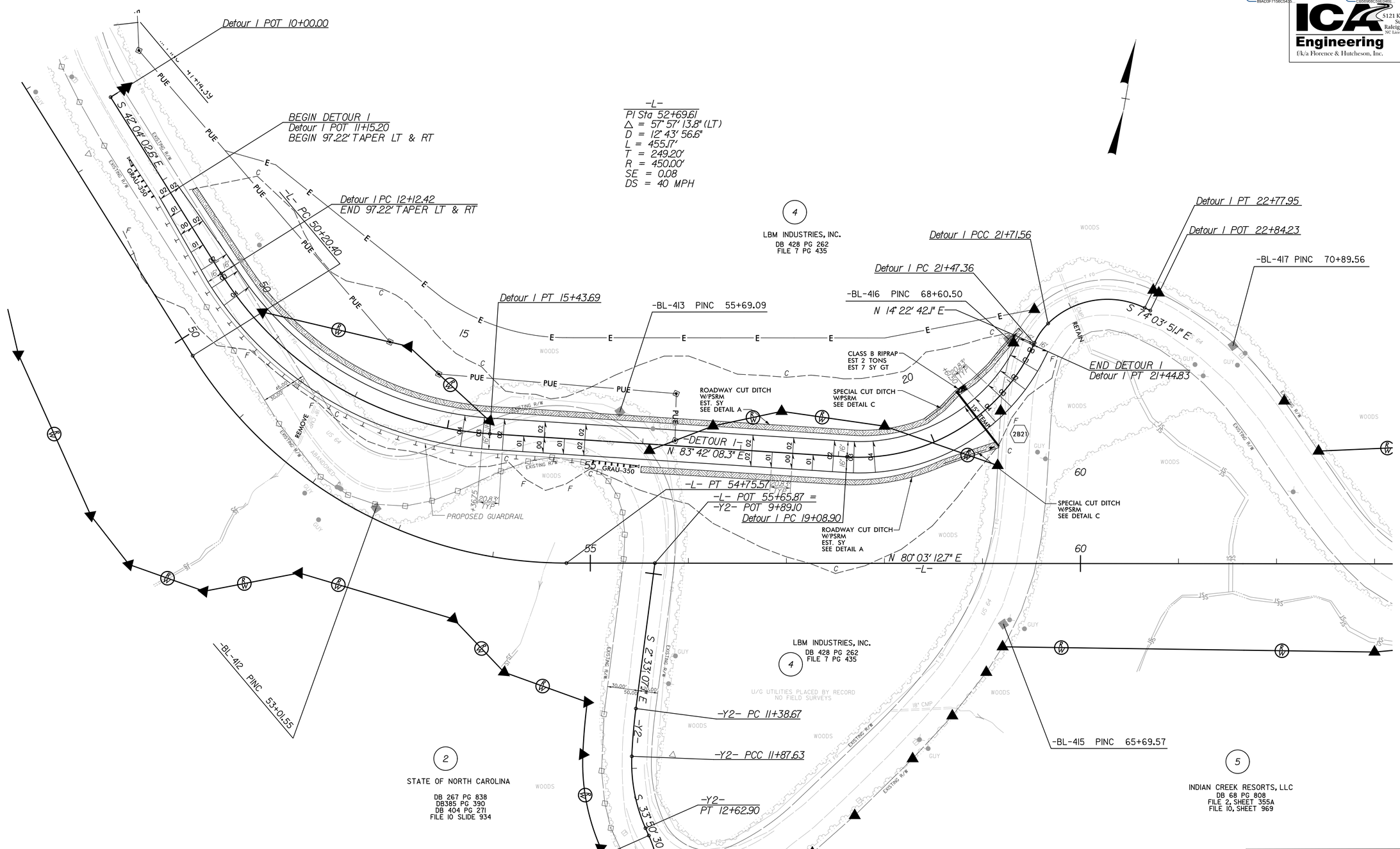
Detour 1
PI Sta 13+91.64
Δ = 54° 13' 49.1" (LT)
D = 16° 22' 12.8"
L = 331.27'
T = 179.22'
R = 350.00'

Detour 1
PI Sta 20+43.73
Δ = 69° 19' 26.1" (LT)
D = 29° 22' 56.8"
L = 235.94'
T = 134.83'
R = 195.00'

Detour 1
PI Sta 21+59.60
Δ = 21° 19' 37.7" (RT)
D = 88° 08' 50.5"
L = 24.19'
T = 12.24'
R = 65.00'

Detour 1
PI Sta 22+32.59
Δ = 70° 13' 49.0" (RT)
D = 66° 00' 46.0"
L = 106.39'
T = 61.03'
R = 86.80'

-L-
PI Sta 52+69.61
Δ = 57° 57' 13.8" (LT)
D = 12° 43' 56.6"
L = 455.17'
T = 249.20'
R = 450.00'
SE = 0.08
DS = 40 MPH



FOR -DETOUR 1- PROFILE SEE SHEET 18

10/21/2015
R:\Roadway\Proj\R2409C_Rdy_DTL_2B-2.dgn
FLORENCE & HUTCHESON, INC.