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DETAIL OF TEMPORARY DETOUR

–NC68NB_DET–
–NC68SB_DET–

NAD 83

–NC68NB_DET–
PI Sta 12+88.406
△ = 74° 42' 18.4" (RT)
L = 32.596
T = 19.081
R = 25.000

–NC68SB_DET–

PI Sta 11+55.969	PI Sta 13+28.703	PI Sta 14+80.420	PI Sta 16+02.044
△ = 6° 19' 10.7" (LT)	△ = 7° 25' 26.0" (LT)	△ = 0° 46' 44.5" (RT)	△ = 10° 22' 35.7" (LT)
L = 148.903	L = 150.951	L = 31.680	L = 210.988
T = 74.527	T = 75.581	T = 15.840	T = 105.783
R = 1,350.000	R = 1,165.000	R = 2,330.000	R = 1,165.000

MATCH LINE STA. 12+80
–NC68SB_DET– SHEET 2B-3

MATCH LINE STA. 16+20
–NC68SB_DET– SHEET 2B-5

–NC68SB_DET– PT 14+04.073
–NC68SB_DET– PC 14+64.580
–NC68SB_DET– PRC 14+96.260
–NC68NB_DET– PT 12+30.345
–NC68NB_DET– PC 12+69.325
–NC68NB_DET– PT 13+01.921
–NC68NB_DET– POT 13+20.886 =
–LREV_NB– POC 90+84.314 2.746 RT

N 7° 22' 49.3" E

40.0 PAVED SHOULDER TRANSITION 0.6 TO 1.2

STANDARD 'V' DITCH
SEE DETAIL A
FOR PROFILE, SEE SHEET 15

SPECIAL CUT DITCH
SEE DETAIL B
FOR PROFILE, SEE SHEET 15

600 CSP

RETAIN 1050 CONC

RETAIN 375 CONC

RETAIN 1200 WW

RETAIN 1500 WW

DETAIL A
STANDARD 'V' DITCH
(Not to Scale)

Natural Ground — 2:1 — D — 2:1 — Natural Ground
Min. D = 0.3m

FROM STA. 91+13 TO STA. 91+40 –LREV_NB– LT.

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground — 2:1 — D — 2:1 — Front Ditch Slope
Min. D = 0.2m

FROM STA. 91+40 TO STA. 91+98 –LREV_NB– LT.

–NC68NB_DET– STA 12+80.154 =
–NC68_NB– STA 13+33.438 5.885 RT
EL 268.791

PIPE HYDRAULIC DATA
600mm CSP STA.–NC68NB_DET– 13+05

DRAINAGE AREA	= 7.08	HA
DESIGN FREQUENCY	= 5	YRS
DESIGN DISCHARGE	= 0.37	m^3/s
DESIGN HW ELEVATION	= 266.83	m
100 YEAR DISCHARGE	= N/A	m^3/s
100 YEAR HW ELEVATION	= N/A	m
OVERTOPPING FREQUENCY	= 25+	YRS
OVERTOPPING DISCHARGE	= 0.73	m^3/s
OVERTOPPING ELEVATION	= 267.92	m

INV IN = 266.22m INV OUT = 265.86m

–1.4200%
–3.8895%
–1.5000%

PI = 12+90.000
EL = 268.651 m
VC = 15 m
K = 6

PI = 13+10.000
EL = 267.873 m
VC = 15 m
K = 6

600 CSP

–NC68NB_DET–

–NC68NB_DET– STA 13+20
–LREV_NB– STA 90+84.314
EL 267.710

272 270 268 266 264 262

+80 13+00 +20

PROJECT REFERENCE NO.	SHEET NO.
R-2413CA	2B-4
R /W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 026606 DAVID C WALLER
Do not use without original signature
4/27/2015

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL SHIHCHEN FUH
Do not use without original signature
4/27/2015

CONST.REV.

R/W REV.

ICA Engineering
5121 Kingdom Way, Suite 100
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NC License No: P-0238

3/13/2015
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ICA ENGINEERING, INC.