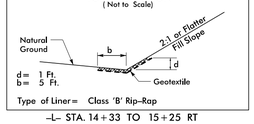
DocuSign Envelope ID: A5472882-DB80-40C3-9A9D-68E72826E8C8

*DESIGN EXCEPTION:
SAG VERTICAL CURVE K
VERTICAL SSD

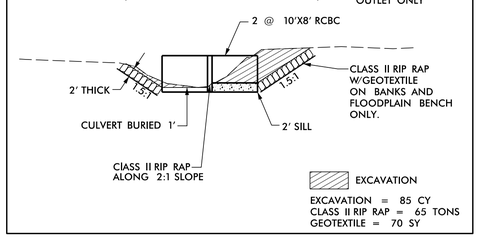
DETAIL A
TOE PROTECTION
(Not to Scale)



-L- STA. 14+33 TO 15+25 RT

INLET DETAIL
(LOOKING DOWNSTREAM)

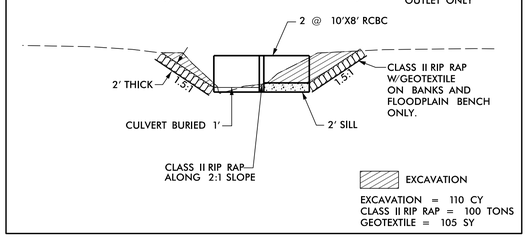
NOTE:
SILLS TO BE LOCATED AT THE INLET AND OUTLET ONLY



EXCAVATION = 85 CY
CLASS II RIP RAP = 65 TONS
GEOTEXTILE = 70 SY

OUTLET DETAIL
(LOOKING DOWNSTREAM)

NOTE:
SILLS TO BE LOCATED AT THE INLET AND OUTLET ONLY



EXCAVATION = 110 CY
CLASS II RIP RAP = 100 TONS
GEOTEXTILE = 105 SY

FOR CULVERT PLANS SEE SHEETS C-1 THRU C-6

NAD 83/NA 2011

PROJECT REFERENCE	SHEET NO.
17BP.5.R.51 – WAKE 27	4

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21102 ENGINEER JAMES TIMOTHY WILLIAMS
Digitally signed by James Timothy Williams
2/6/2018
MOTT MACDONALD I & E, LLC
LICENSE NO. F-0669

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 34364 ENGINEER TIMOTHY MICHAEL CORNER
Digitally signed by Timothy Michael Corner
2/6/2018
HDR ENGINEERING
LICENSE NO. F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:
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www.mottmac.com

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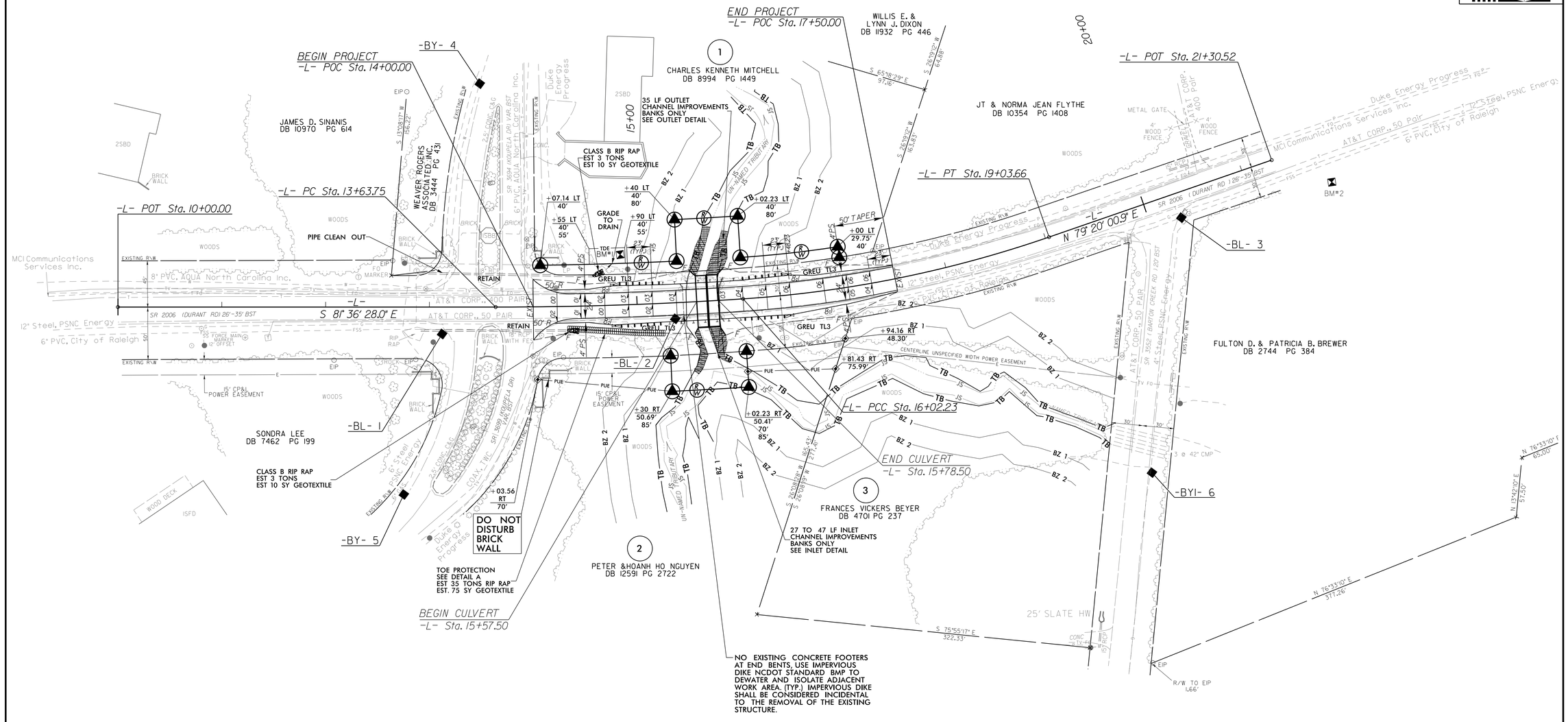
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

HORIZONTAL SCALE
25' 0 25' 50'



-L-

PI Sta 14+83.03	PI Sta 17+53.84
△ = 3° 46' 28.1" (LT)	△ = 15° 17' 03.0" (LT)
D = 1° 34' 57.9"	D = 5° 04' 13.5"
L = 238.47'	L = 301.44'
T = 119.28'	T = 151.62'
R = 3,620.00'	R = 1,130.00'

2/6/2018 11:33:45 AM
R:\Roadway\Proj\910027_rdy_psh.dgn
ncr66165