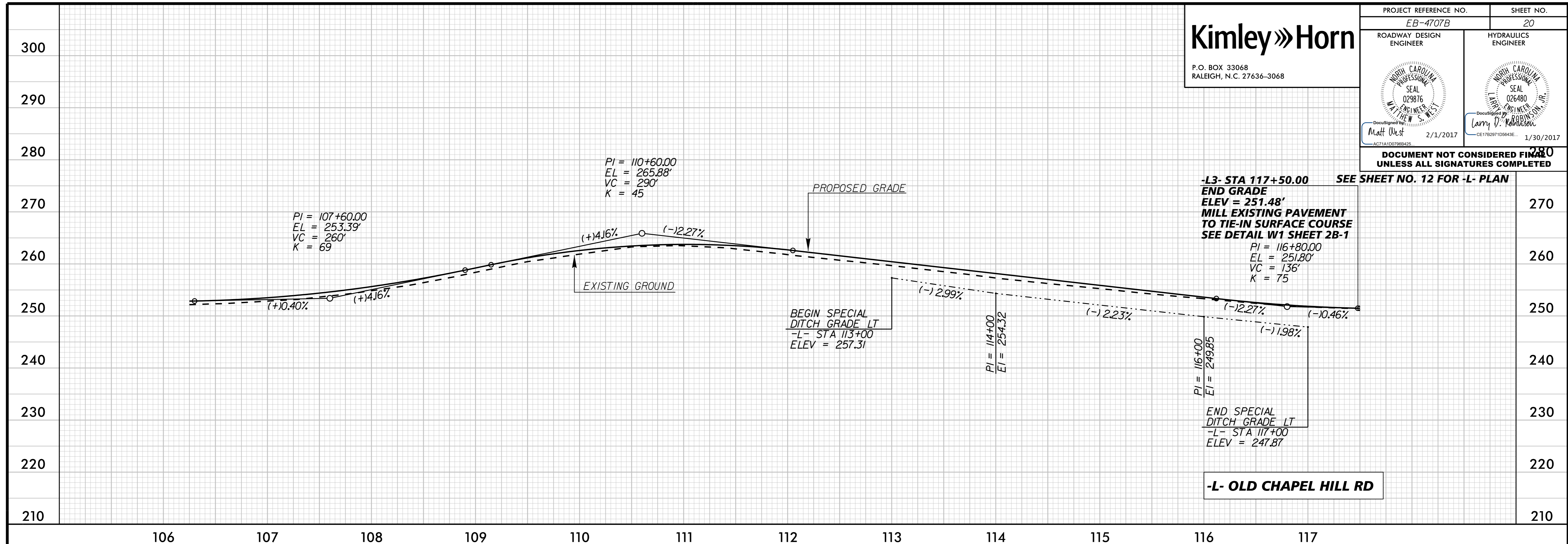




P.O. BOX 33068  
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PROJECT REFERENCE NO. EB-4707B	SHEET NO. 20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 Matt West 2/1/2017	 Larry D. Robinson 1/30/2017

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



PIPE HYDRAULIC DATA	
(130)(303) 24" RCP	
DRAINAGE AREA	= 3.2 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 9.8 CFS
DESIGN HW ELEVATION	= 248.86 FT
100 YEAR DISCHARGE	= 10.4 CFS
100 YEAR HW ELEVATION	= 248.92 FT
OVERTOPPING FREQUENCY	= > 100 YRS
OVERTOPPING DISCHARGE	= > 36 CFS
OVERTOPPING ELEVATION	= 252.85 FT

BM 8  
-L- STA 119+26.41 (65.25' RT)  
ELEV. = 252.92'

BEGIN SPECIAL DITCH GRADE RT  
-L- STA 118+22  
ELEV = 247.55

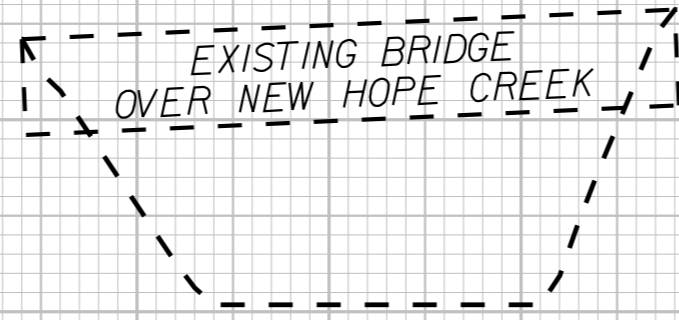
END SPECIAL DITCH GRADE RT  
-L- STA 119+00  
ELEV = 252.32

-L4- STA 124+50.00  
BEGIN GRADE  
ELEV = 257.27'  
MILL EXISTING PAVEMENT TO TIE-IN SURFACE COURSE  
SEE DETAIL W1 SHEET 2B-1

PI = 125+05.00  
EL = 257.82'  
VC = 60'  
K = 86

PI = 128+15.00  
EL = 258.75'  
VC = 500'  
K = 556

EXIST 24" RCP  
PI = 118+50  
EI = 249.61  
Slopes: (+) 7.35%, (+) 5.42%



EXISTING GROUND

Slopes: (+) 0.30%, (+) 0.30%, (-) 0.60%

**-L- OLD CHAPEL HILL RD**

SEE SHEET NO. 13 FOR -L- PLAN

K:\RAL\_Roadway\010136290 - EB-4707 Part B\Plan\Plan Sheets\EB-4707\_rdy\_PFL\_PSH.dgn 1/30/2017