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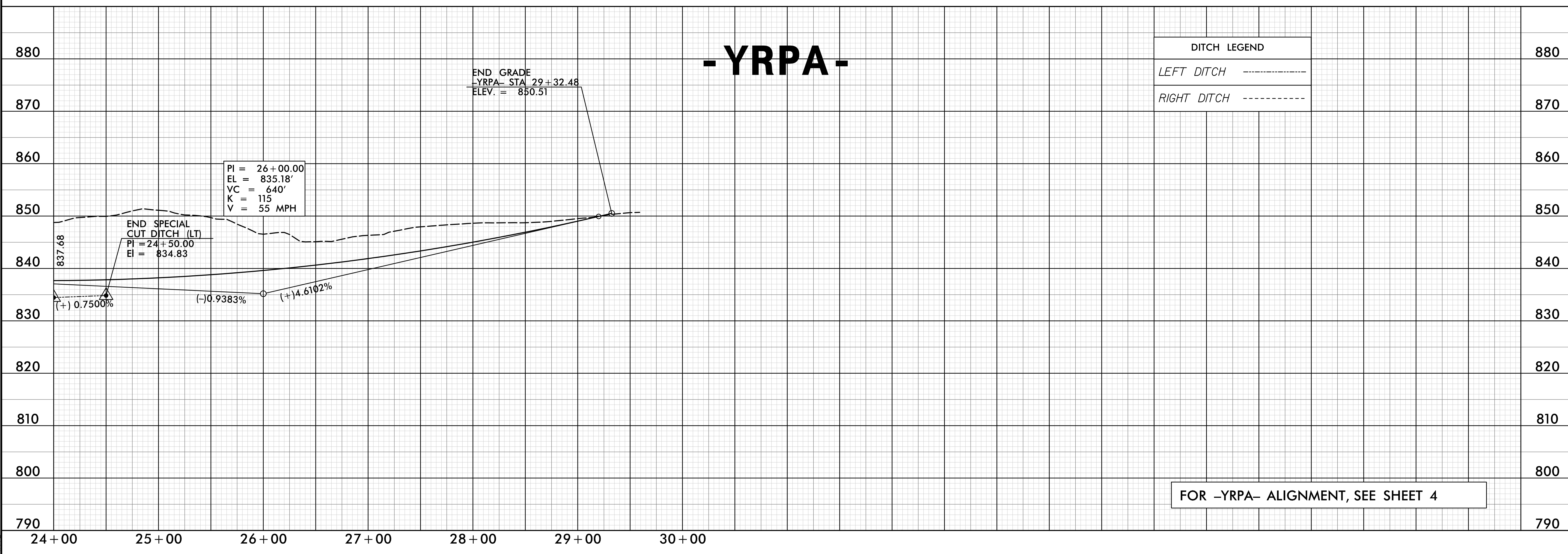
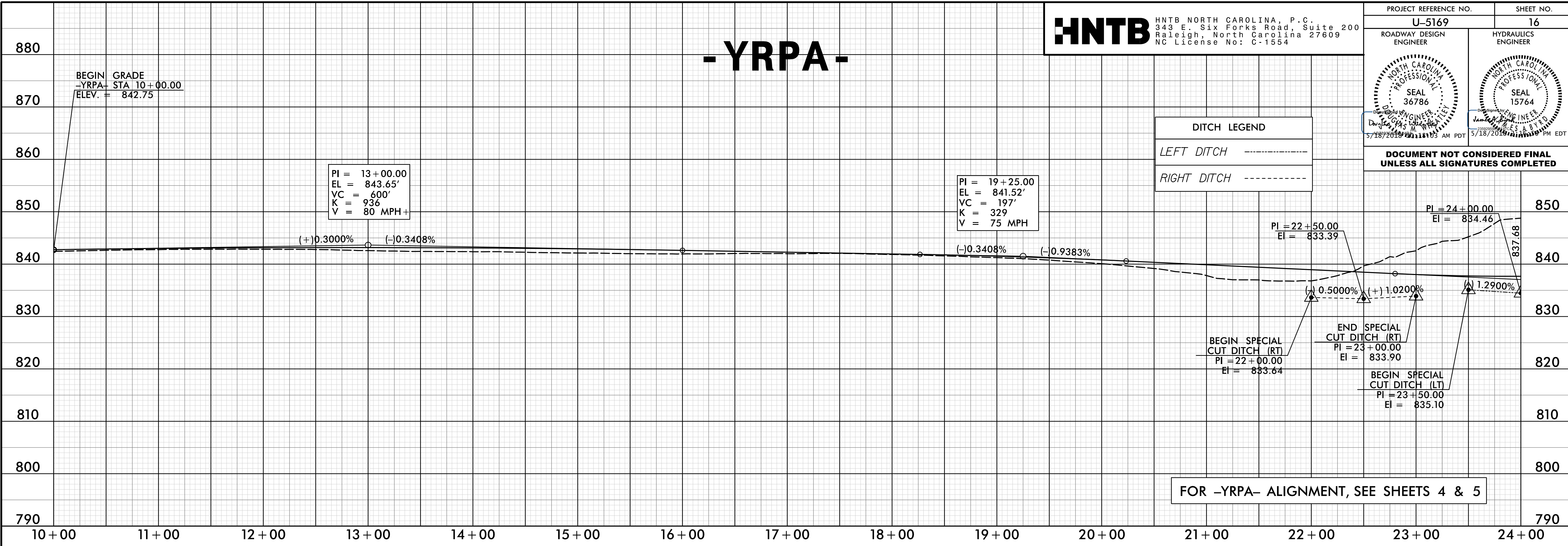
5/28/19



HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO. <b>U-5169</b>	SHEET NO. <b>16</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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18-MAY-2018 11:25 AM  
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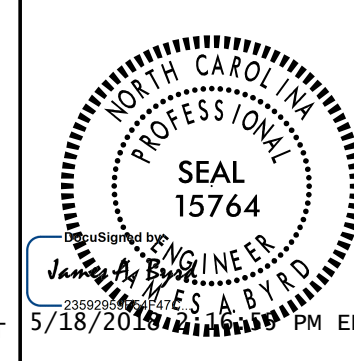
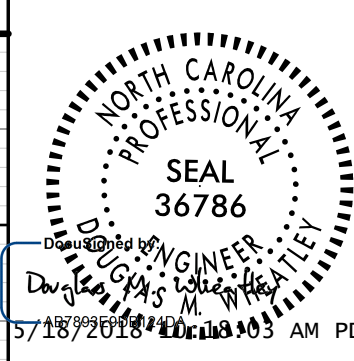
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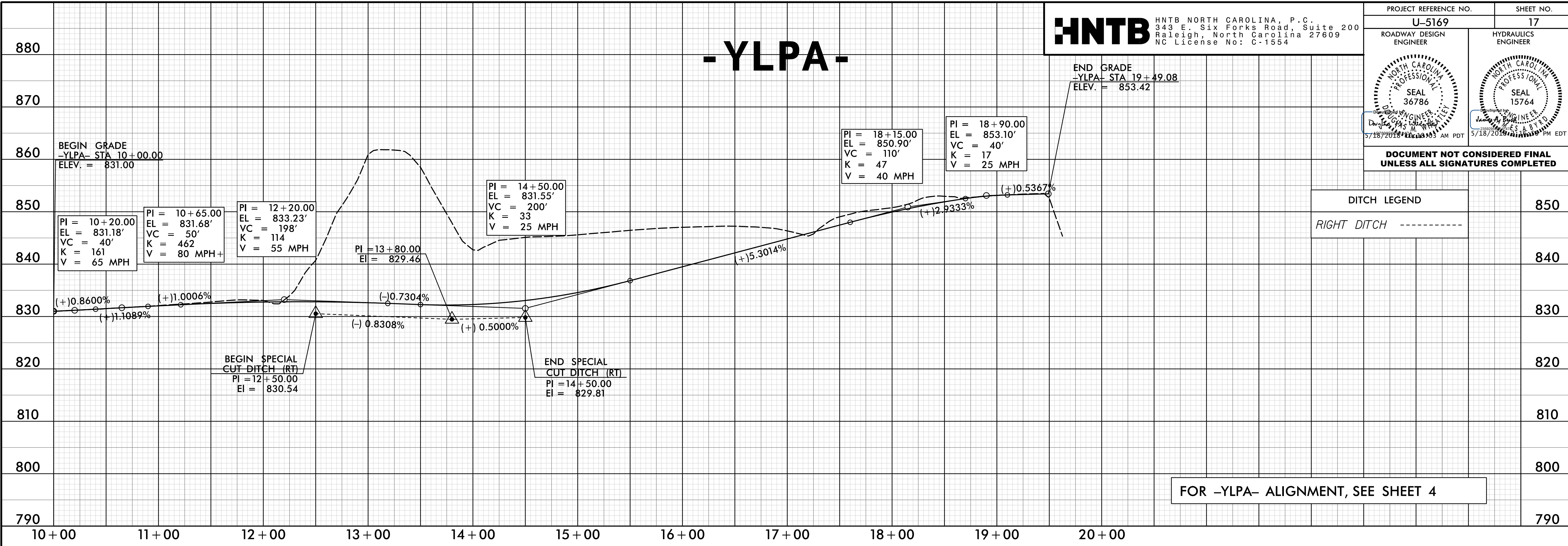
U-5169 17

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

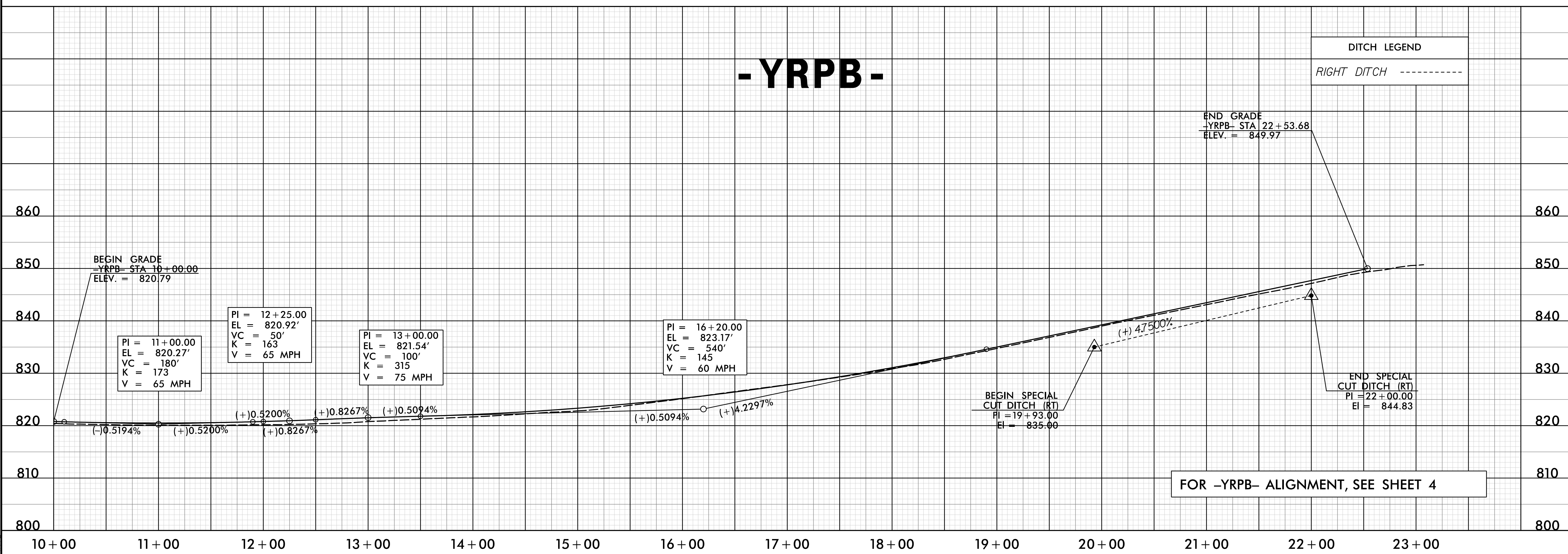


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## -YLPA-



## -YRPB-



18-MAY-2018 11:26  
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5/28/19

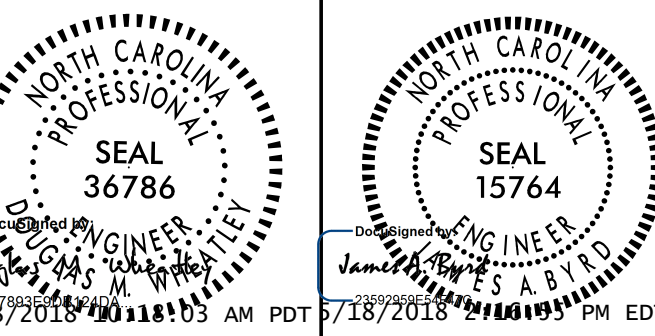


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U-5169 18

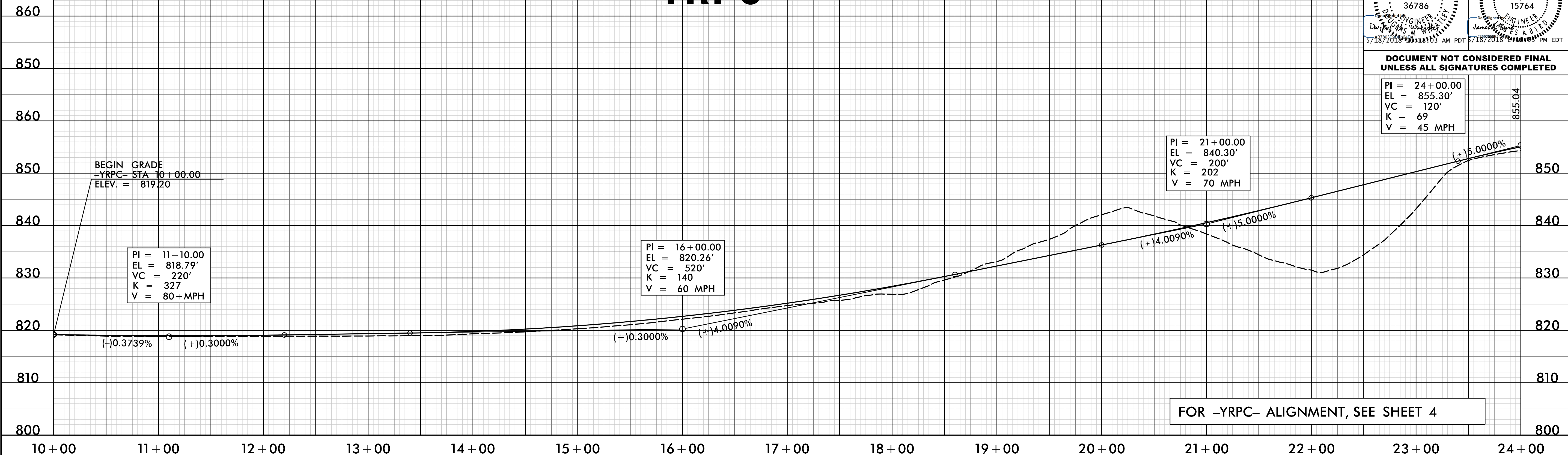
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER



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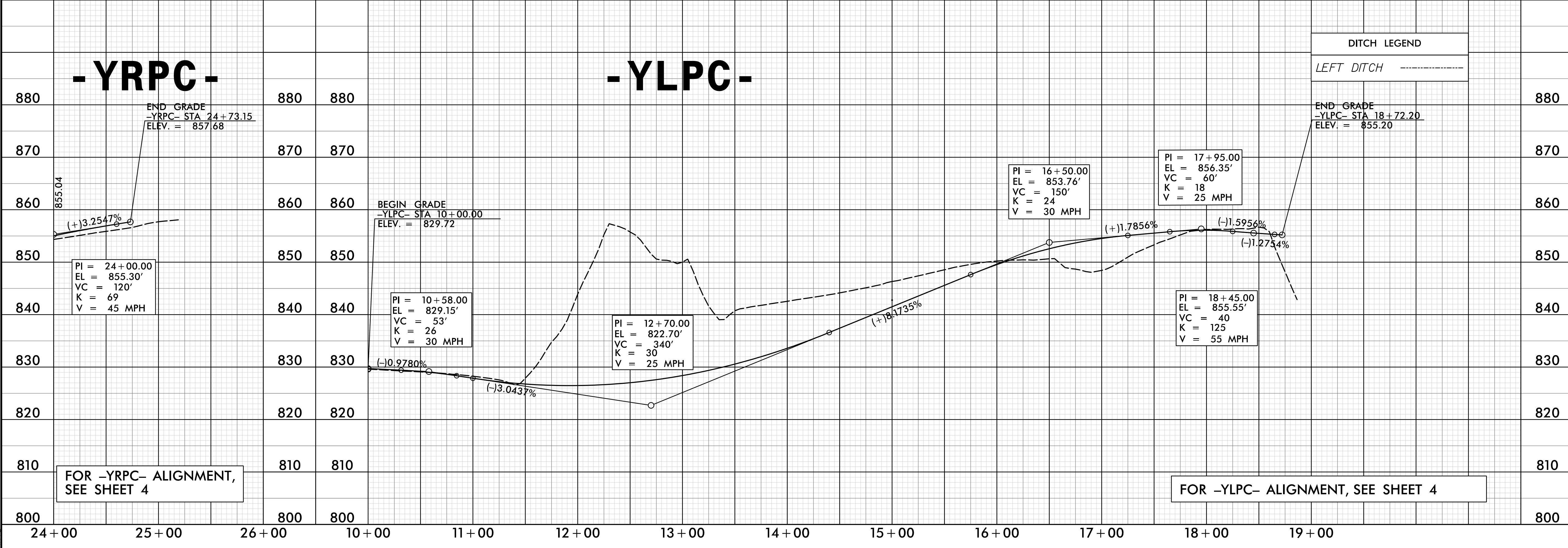
PI = 24+00.00  
EL = 855.30'  
VC = 120'  
K = 69  
V = 45 MPH

# -YRPC-



# -YRPC-

# -YLPC-



### DITCH LEGEND

LEFT DITCH -----

END GRADE  
-YRPC- STA 24+73.15  
ELEV. = 857.68

END GRADE  
-YLPC- STA 18+72.20  
ELEV. = 855.20

FOR -YRPC- ALIGNMENT,  
SEE SHEET 4

FOR -YLPC- ALIGNMENT, SEE SHEET 4

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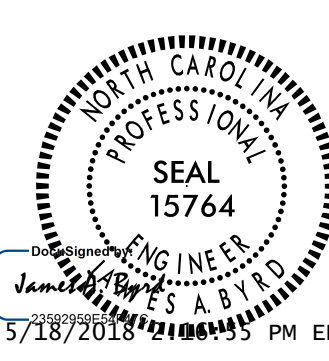
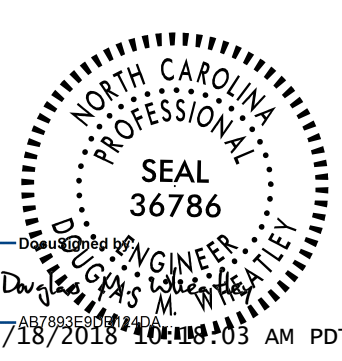


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ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER



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# -YRPD-

END GRADE  
-YRPD- STA 20+59.71  
ELEV. = 857.84

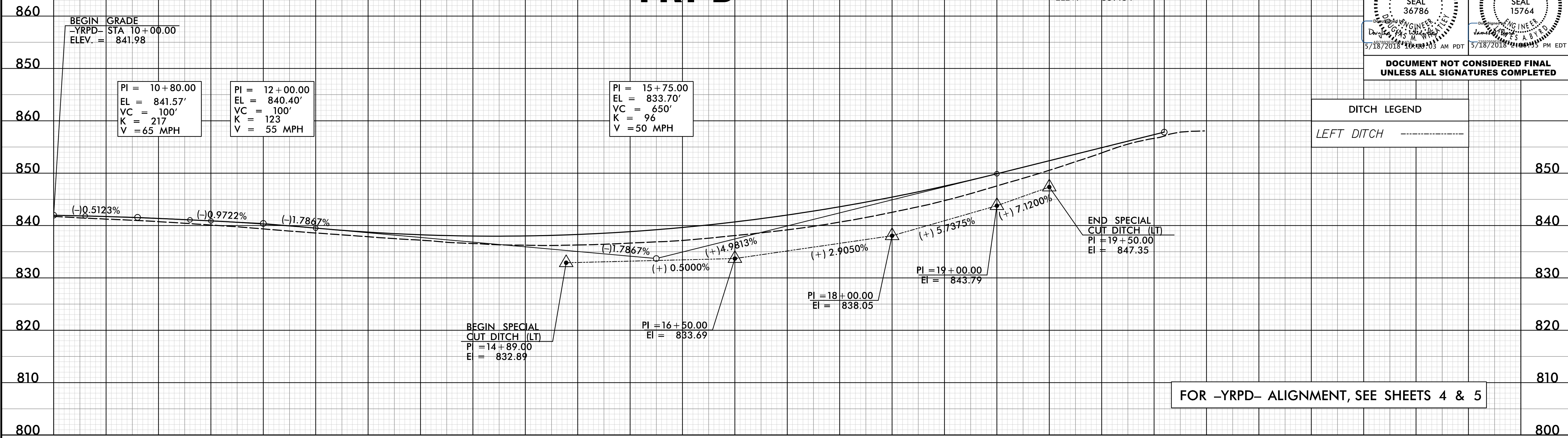
BEGIN GRADE  
-YRPD- STA 10+00.00  
ELEV. = 841.98

PI = 10+80.00  
EL = 841.57'  
VC = 100'  
K = 217  
V = 65 MPH

PI = 12+00.00  
EL = 840.40'  
VC = 100'  
K = 123  
V = 55 MPH

PI = 15+75.00  
EL = 833.70'  
VC = 650'  
K = 96  
V = 50 MPH

DITCH LEGEND  
LEFT DITCH -----



FOR -YRPD- ALIGNMENT, SEE SHEETS 4 & 5

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