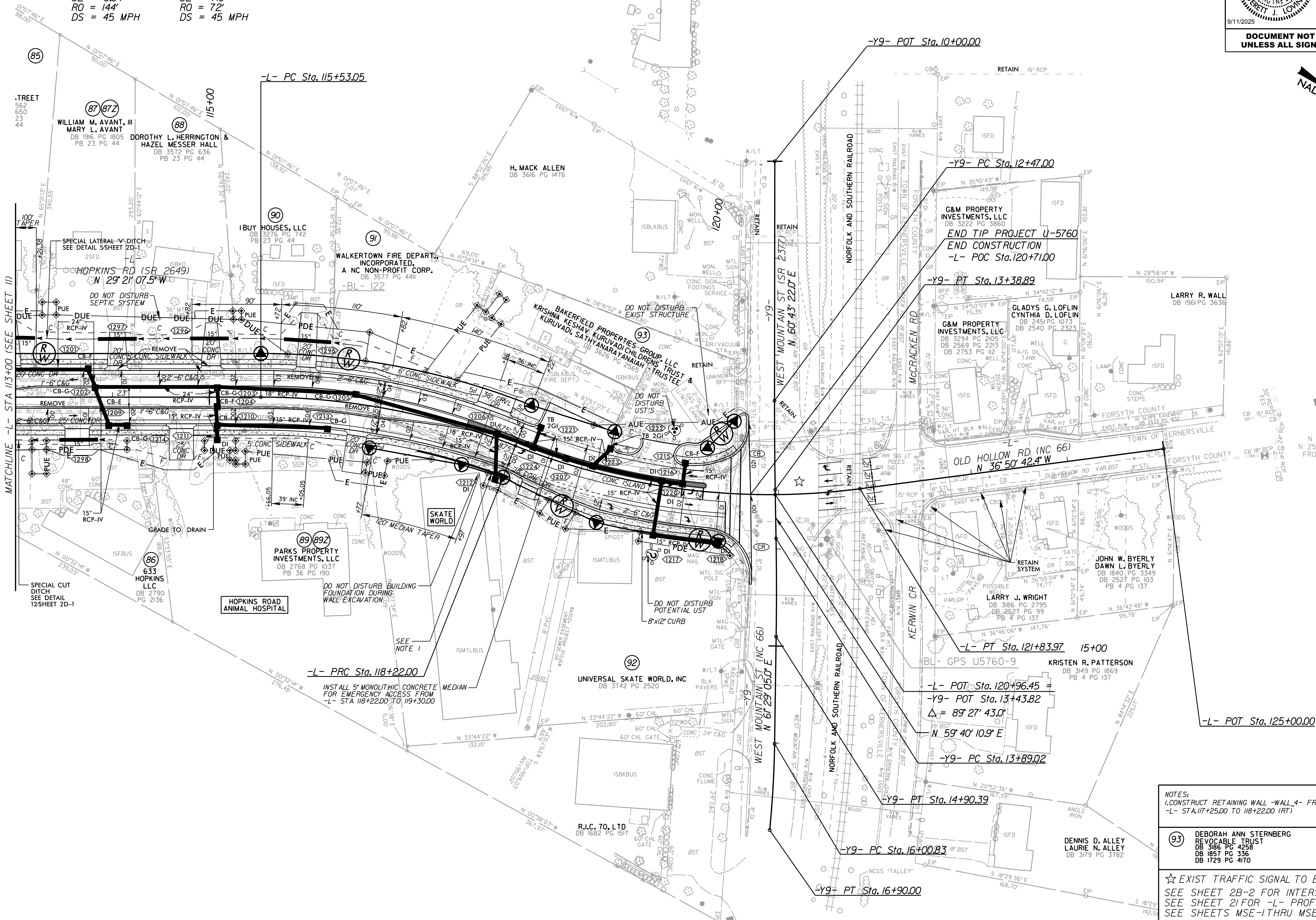


5/14/99

8/28/2025

REVISIONS

-L-		-Y9-	
PI Sta 116+89.16	PI Sta 120+07.00	PI Sta 12+92.95	PI Sta 14+39.71
$\Delta = 21^{\circ} 40' 28.2" (RT)$	$\Delta = 29^{\circ} 10' 03.1" (LT)$	$\Delta = 1^{\circ} 03' 11.1" (LT)$	$\Delta = 4^{\circ} 51' 55.9" (RT)$
$D = 8^{\circ} 03' 30.5"$	$D = 8^{\circ} 03' 30.5"$	$D = 1^{\circ} 08' 45.3"$	$D = 5^{\circ} 27' 24.3"$
$L = 268.97'$	$L = 361.97'$	$L = 91.90'$	$L = 101.37'$
$T = 136.11'$	$T = 184.99'$	$T = 45.95'$	$T = 50.69'$
$R = 711.00'$	$R = 711.00'$	$R = 5,000.00'$	$R = 3,200.00'$
$SE = 0.04$	$SE = RC$		
$RO = 144'$	$RO = 72'$		
$DS = 45 MPH$	$DS = 45 MPH$		



Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.
U-5760

ROADWAY DESIGN ENGINEER

SEAL
050997
FRETT J. LOVING
9/11/2025

SHEET NO.
12

HYDRAULICS ENGINEER

SEAL
056267
KATHY L. FAUGERUS
9/11/2025

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

NOTES:
1. CONSTRUCT RETAINING WALL - WALL 4- FROM
-L- STA. 117+25.00 TO 118+22.00 (RT)

93 DEBORAH ANN STERNBERG
REVOCABLE TRUST
DB 386 PG 4258
DB 1057 PG 336
DB 1729 PG 4170

☆ EXIST TRAFFIC SIGNAL TO BE MODIFIED
SEE SHEET 2B-2 FOR INTERSECTION DETAIL
SEE SHEET 21FOR -L- PROFILE
SEE SHEETS MSE-1THRU MSE-4 FOR WALL PLANS

5/14/99

REVISIONS

6/26/2025

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

U-5760

SHEET NO.

13A

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

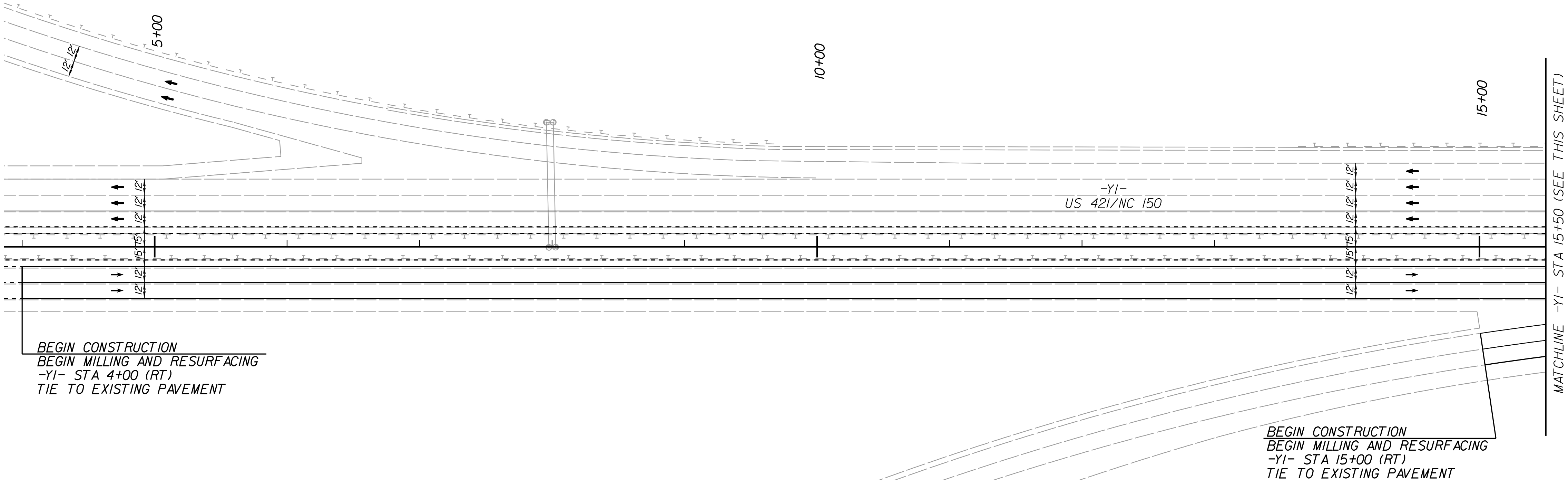


9/11/2025

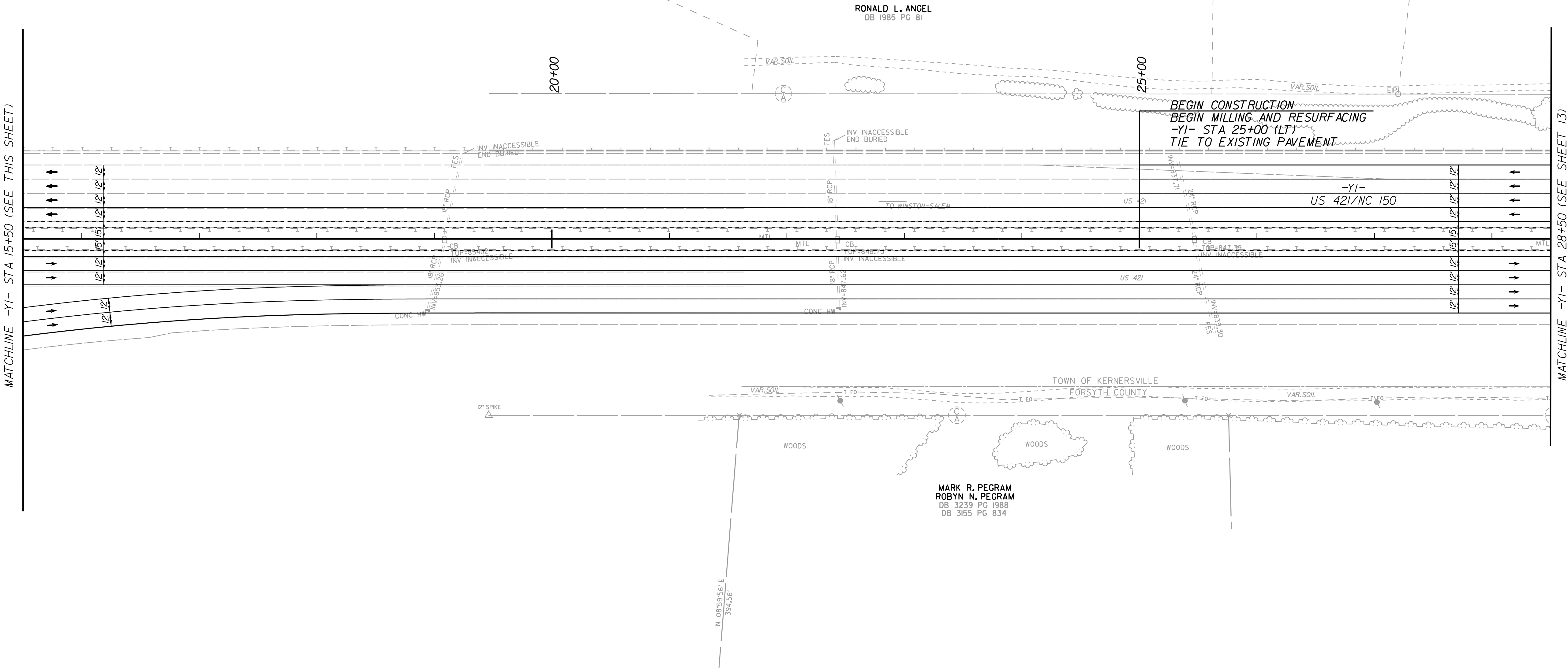


9/11/2025

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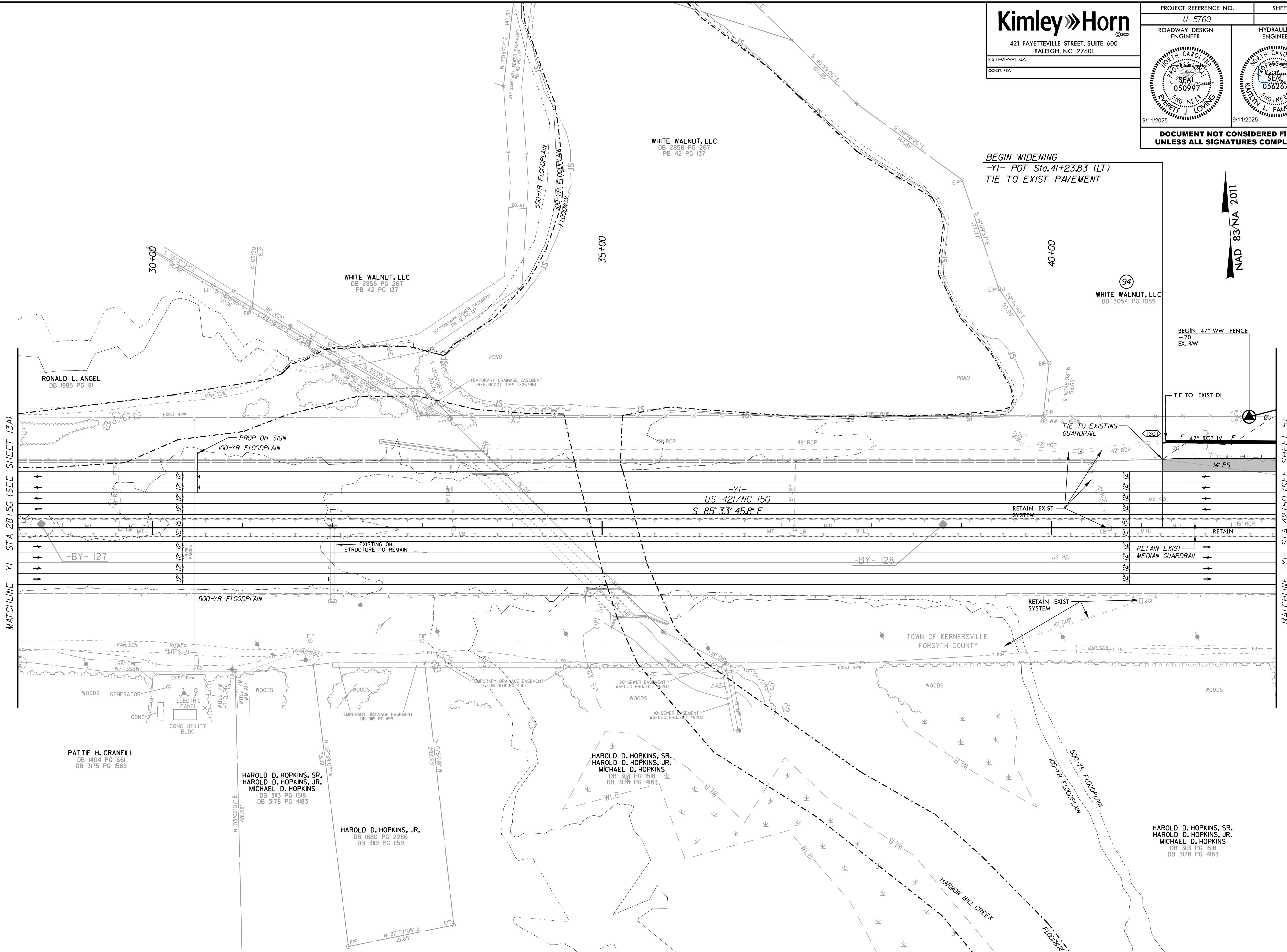
NAD 83/NA 2011



NAD 83/NA 2011

CONST. REV.

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421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.		SHEET NO.	
U-5760		14	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
9/11/2025		9/11/2025	
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NOTES:

1. USE 8' GUARDRAIL POSTS FOR MEDIAN GUARDRAIL

107 TRIANGLE PROPERTIES OF KERNERSVILLE, LLC
DB 2928 PG 2560

SEE SHEETS 21 THRU 23 FOR -YI- (LT) PROFILE
SEE SHEETS 23 AND 24 FOR -YI- (RT) PROFILE

5/14/99

REVISIONS

8/28/2025

Kimley»Horn

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RALEIGH, NC 27601

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

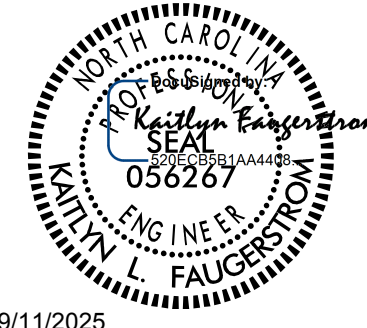
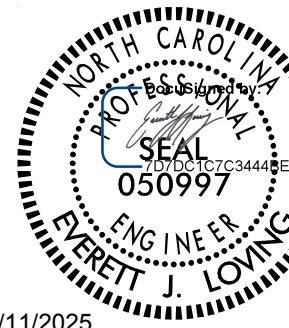
U-5760

SHEET NO.

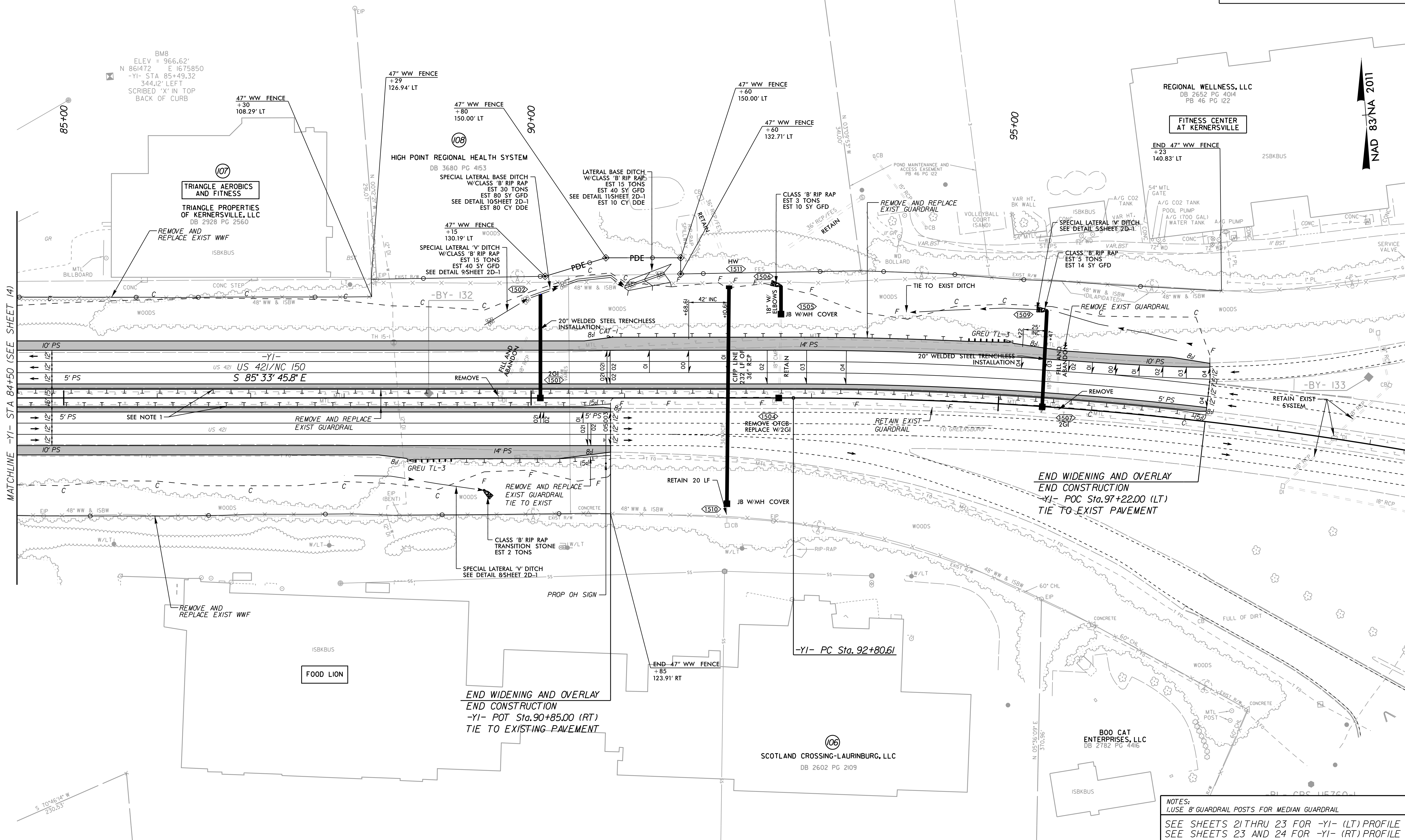
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ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



NOTES:

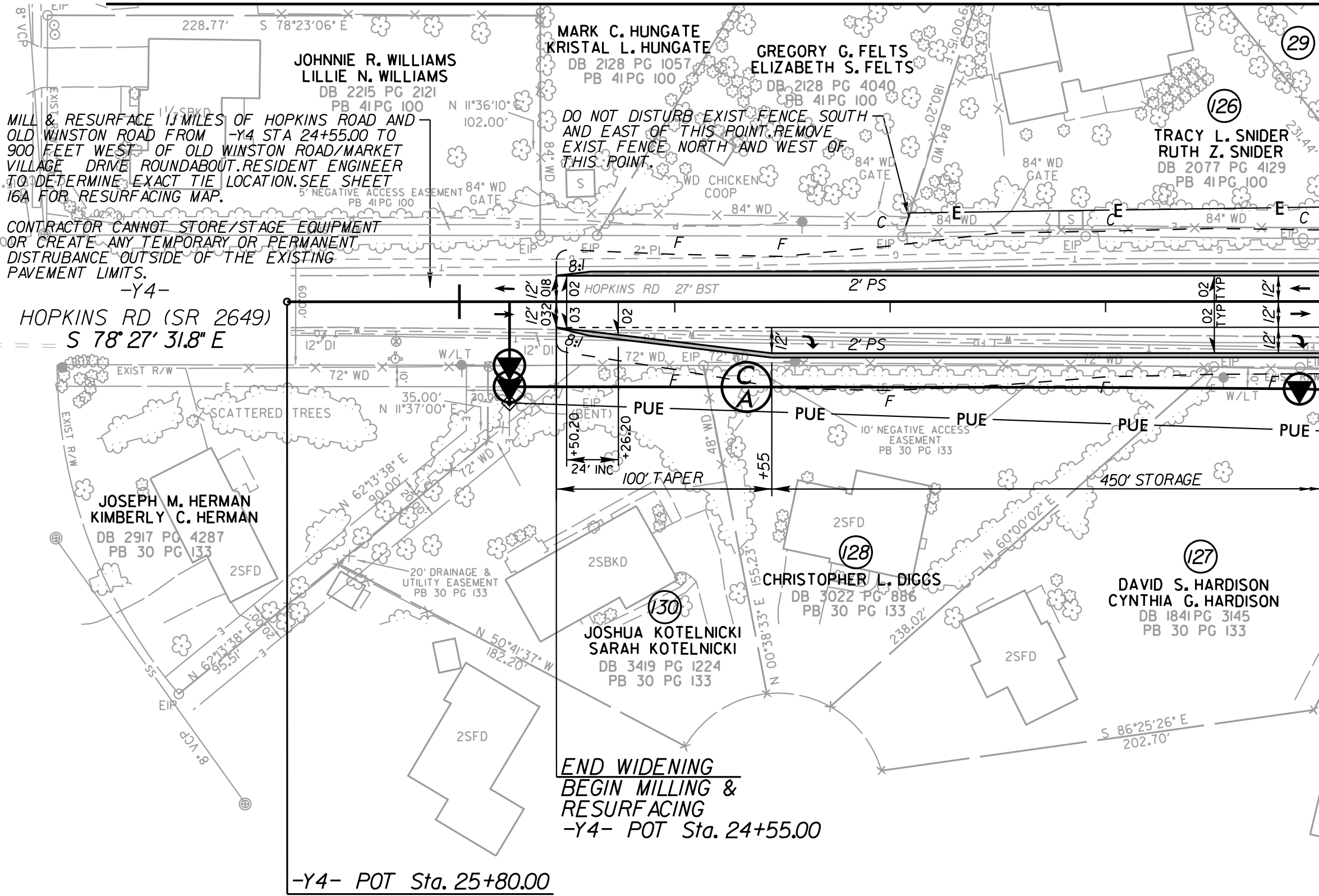
1. USE 8' GUARDRAIL POSTS FOR MEDIAN GUARDRAIL

SEE SHEETS 21 THRU 23 FOR -YI- (LT) PROFILE
SEE SHEETS 23 AND 24 FOR -YI- (RT) PROFILE

5/14/99

REVISIONS

8/28/2025



MATCHLINE -Y4- STA 21+00 (SEE SHEET 8)

NAD 83/NA 2011

(29) DAVID A. GRIX
MELODY K. GRIX
DB 2729 PG 3569
PB 41PG 100

SEE SHEET 16A FOR RESURFACING MAP
SEE SHEET 28 FOR -Y4- PROFILE

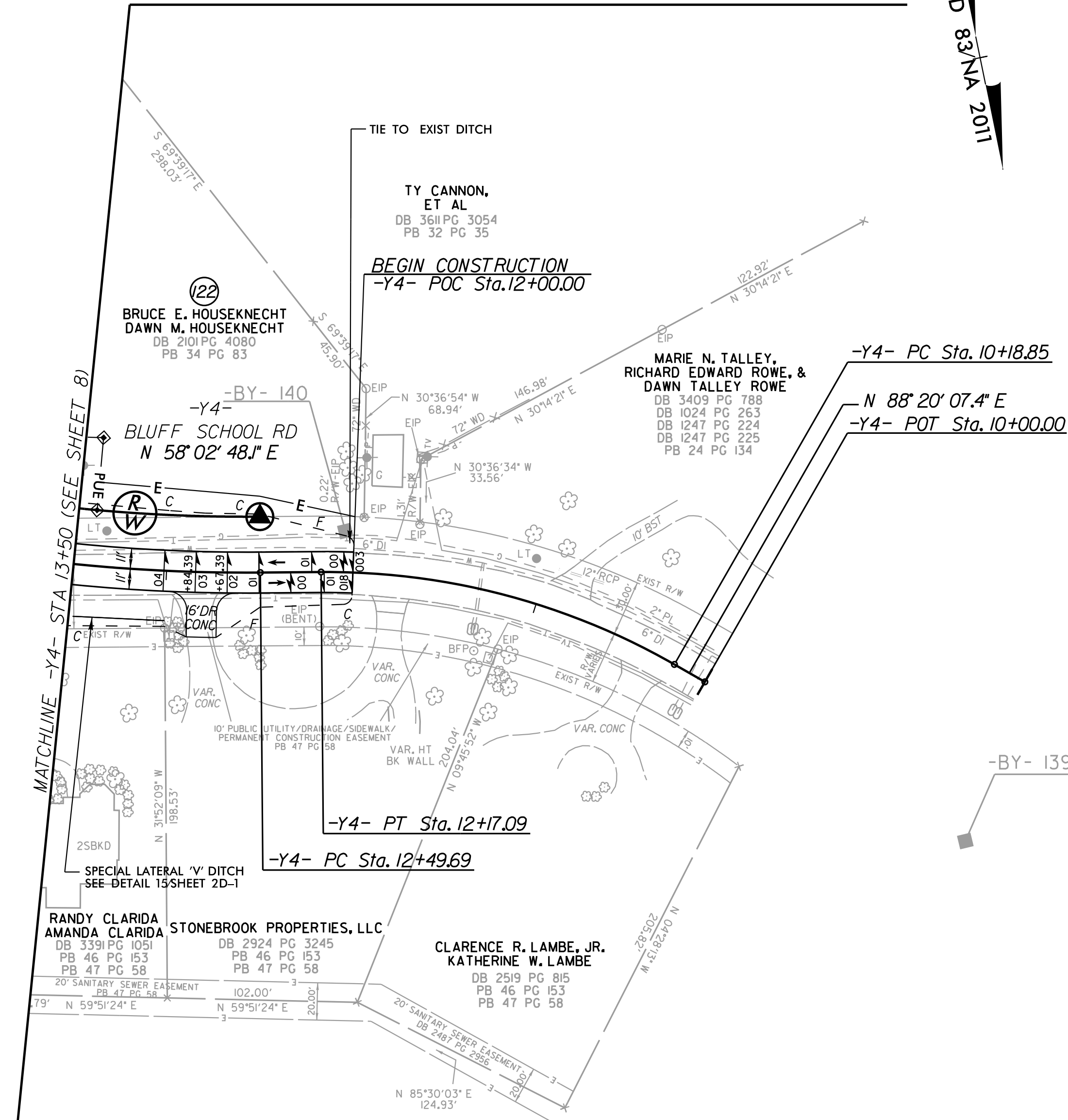
Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.		SHEET NO.
U-5760		16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

NAD 83/NA 2011



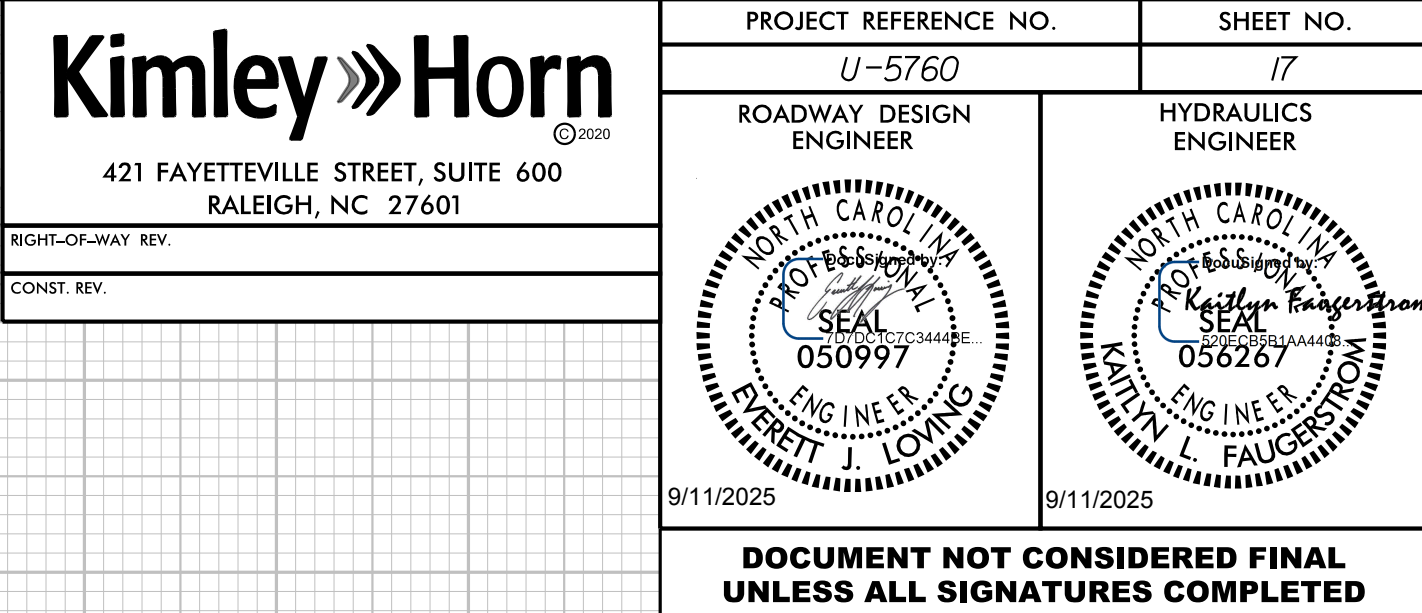
-Y4-
PI Sta 11+20.34
Δ = 30°17'19.3" (LT)
D = 15°16'43.9"
L = 198.24'
T = 101.49'
R = 375.00'
SE = 0.04
RO = 68'

SEE SHEET 16A FOR RESURFACING MAP
SEE SHEET 28 FOR -Y4- PROFILE



Map 2 Hopkins Road
From: Old Winston Rd
To: Project Limits
Mill 1 1/2" Entire Width
Mill 1 1/2" Incidental Milling at as
marked
Pave 1 1/2" S 9.5 B

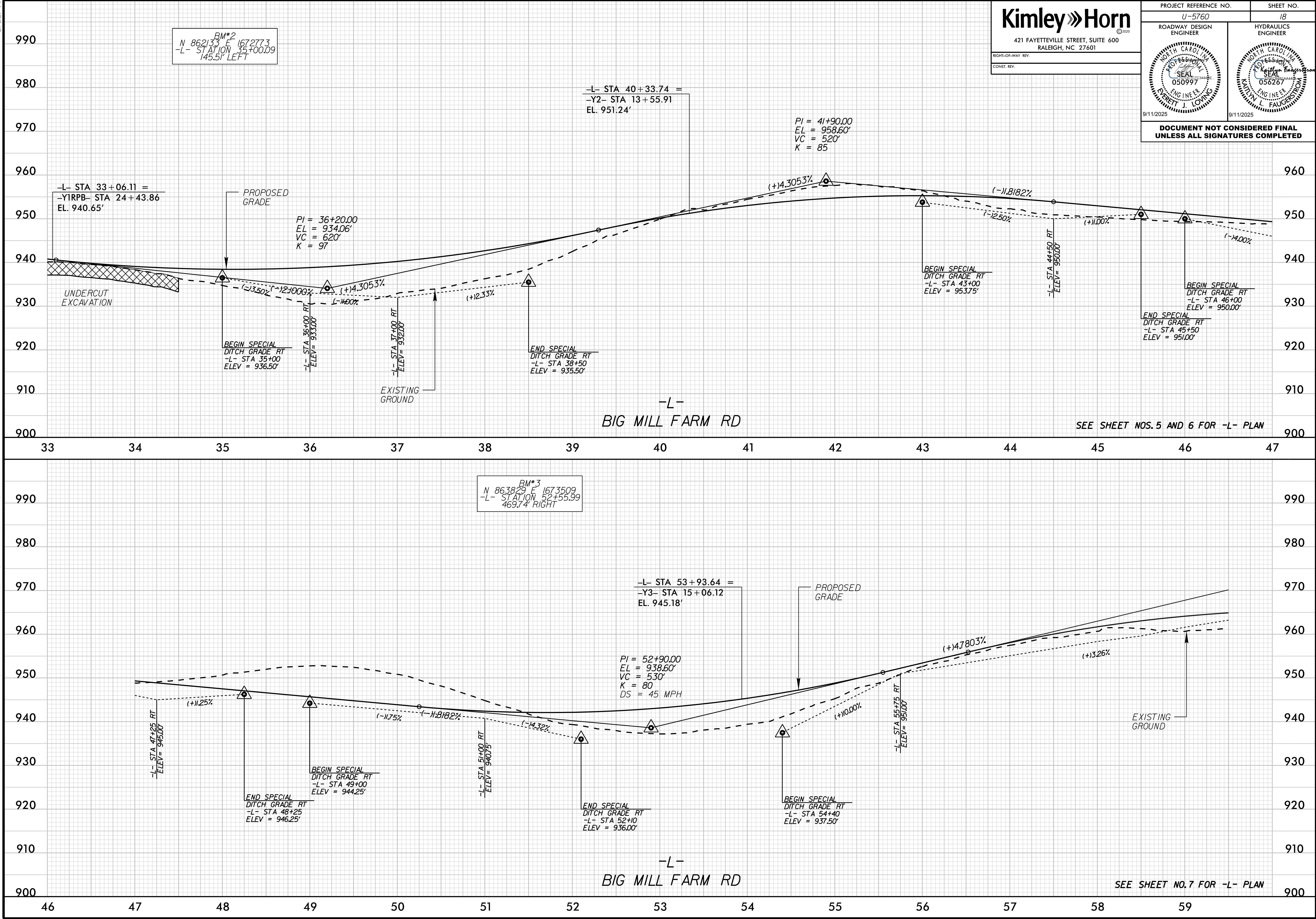
SEE SHEET 2A-9 FOR MILLING AND RESURFACING TYPICAL SECTIONS
SEE SHEET 2C-20 FOR RESURFACING DETAILS
SEE SHEET 3B-4 FOR RESURFACING QUANTITIES



5/28/2025

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6/26/2025



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421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

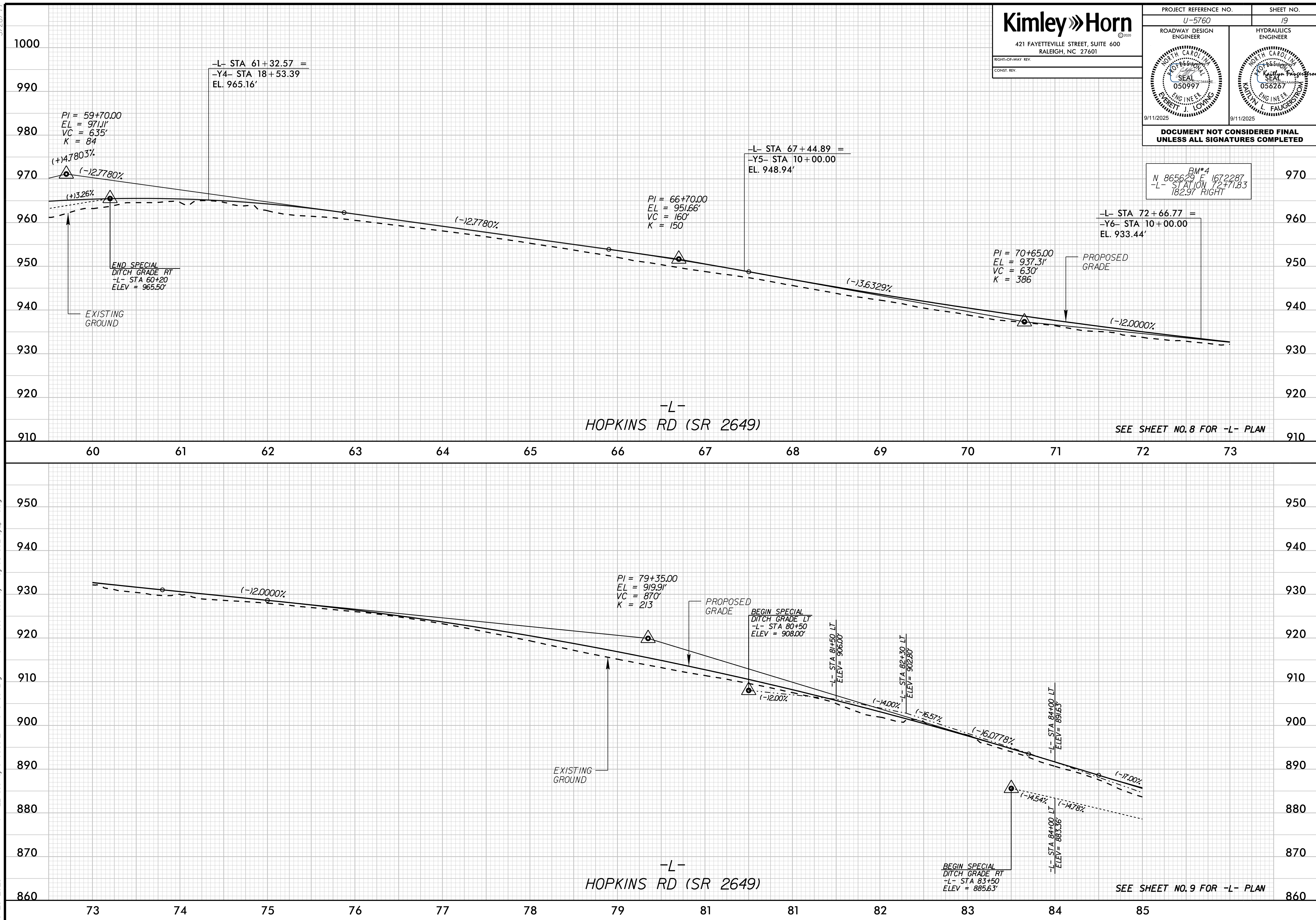
PROJECT REFERENCE NO.
U-5760

SHEET NO.
18

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

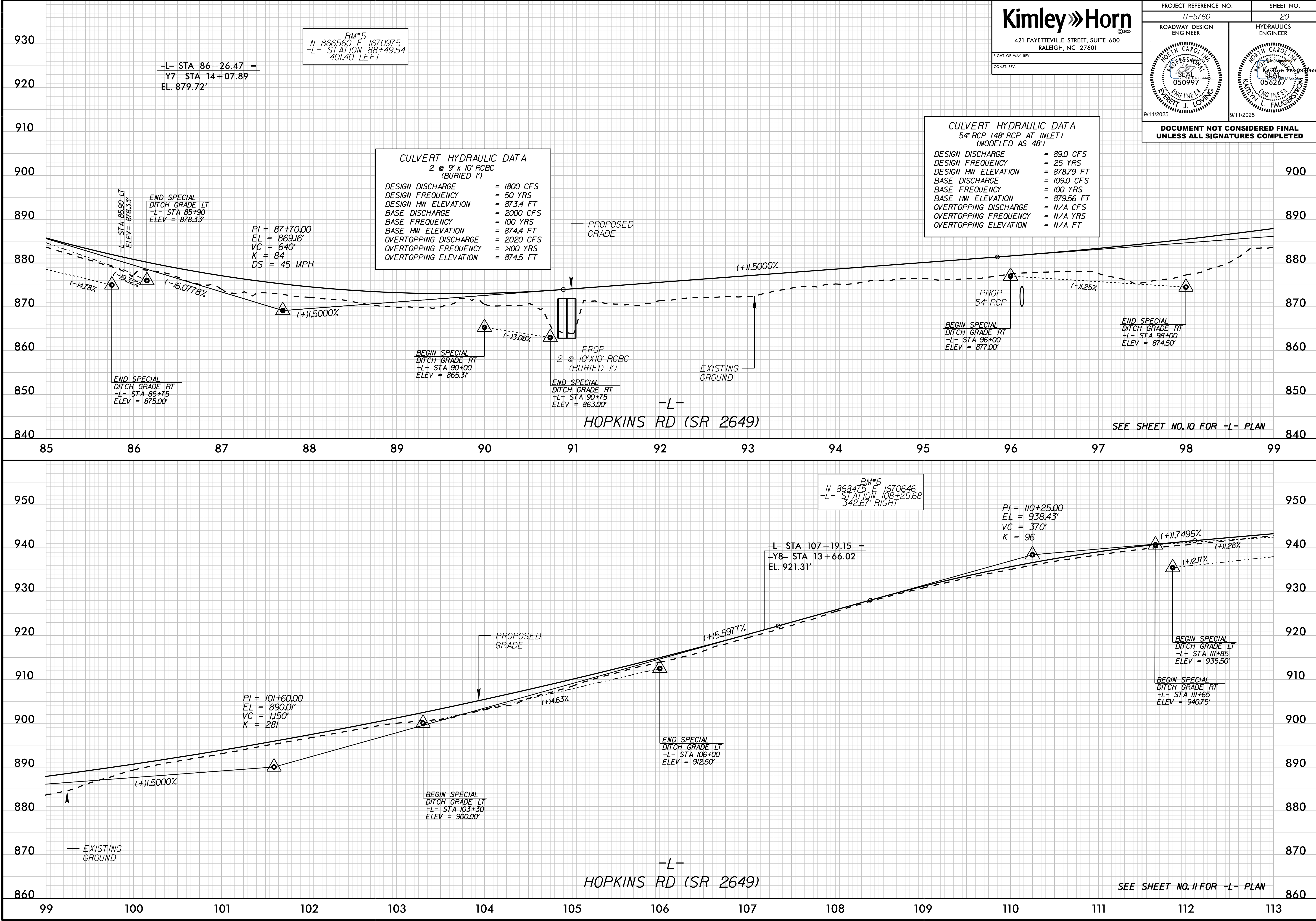
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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6/26/2025



PROJECT REFERENCE NO.

U-5760

SHEET NO.

21

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600

RALEIGH, NC 27601

RIGHT-OF-WAY REV.

CONST. REV.

9/11/2025

9/11/2025

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

SEAL

050997

PIRETT J. LOYING

SEAL

056267

KIMLEY L. FAUCETT

9/11/2025

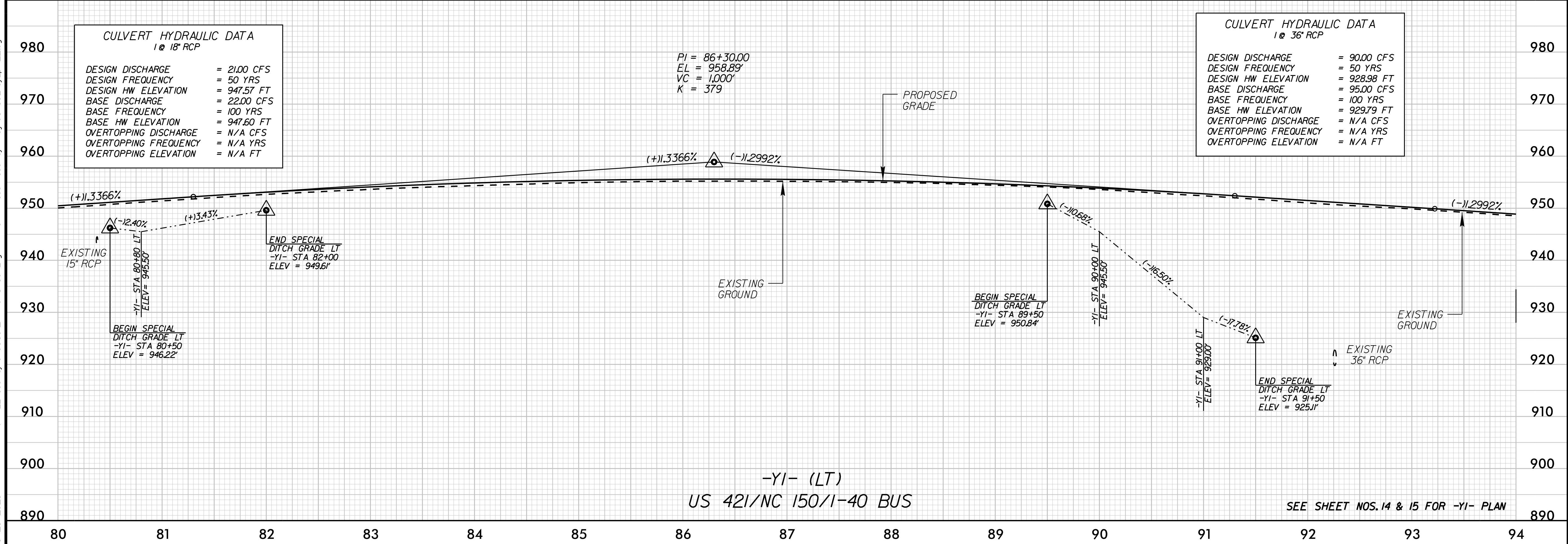
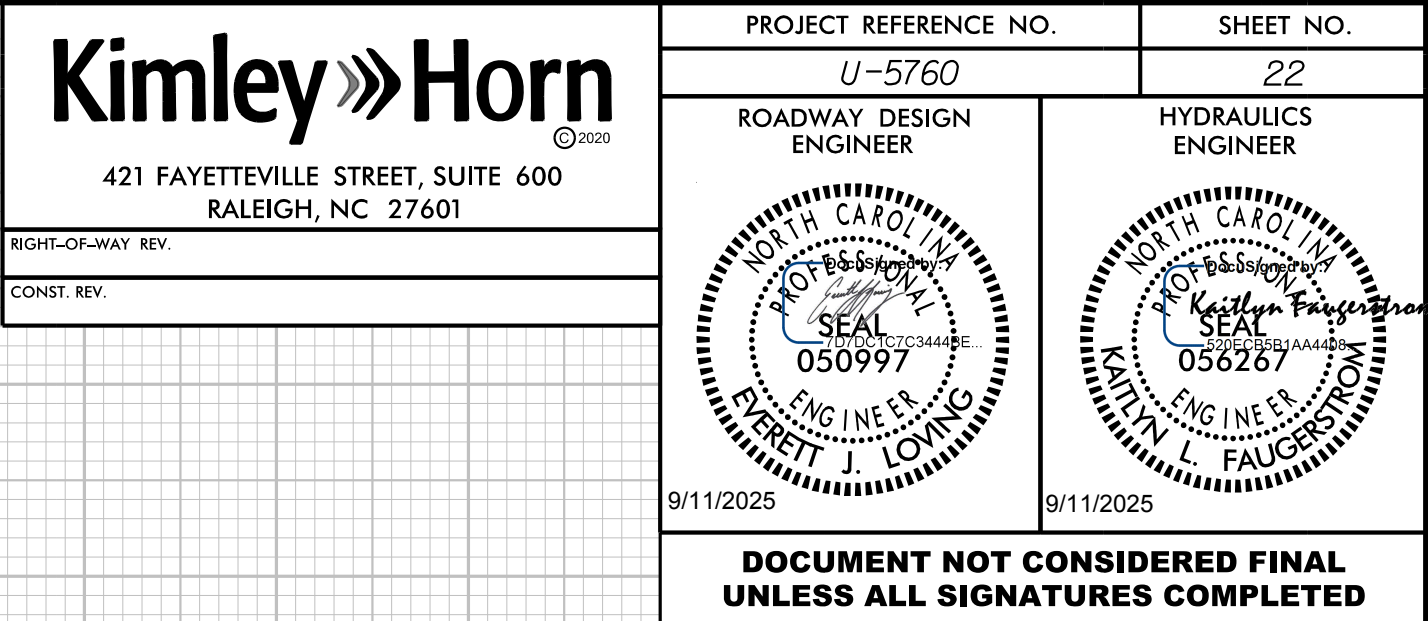
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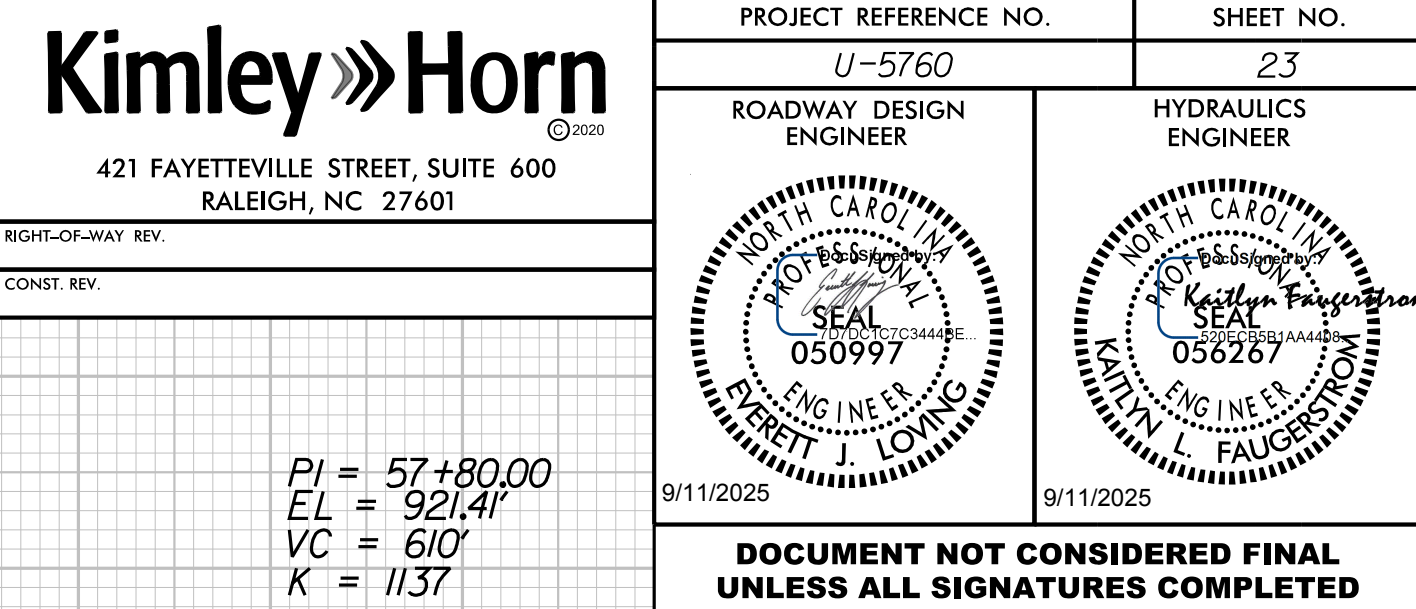
Profile view of HOPKINS RD (SR 2649). The vertical axis shows elevation from 910 to 1000 feet. The horizontal axis shows stationing from 113 to 122. The profile includes a proposed grade line and an existing ground line. Key data points include:

- PI = 116+20.00, EL = 948.84', VC = 330', K = 150
- PI = 118+90.00, EL = 959.50', VC = 210', K = 62, DS = 45 MPH
- END GRADE: -L- STA 120+71.00, EL. 960.50', MILL NOTCH TO KEY-IN TIE TO EXIST PAVEMENT
- Grades: (+)1.28%, (+)2.17%, (+)1.7496%, (+)3.21%, (+)1.73%, (+)3.9481%, (+)0.5525%
- END SPECIAL DITCH GRADE LT: -L- STA 116+50, ELEV = 945.75'
- END SPECIAL DITCH GRADE RT: -L- STA 114+00, ELEV = 943.75'
- END SPECIAL DITCH GRADE LT: -L- STA 115+20, ELEV = 943.50'
- END SPECIAL DITCH GRADE LT: -L- STA 114+50, ELEV = 941.25'
- SEE SHEET NO. 12 FOR -L- PLAN

Profile view of US 421/NC 150/I-40 BUS. The vertical axis shows elevation from 860 to 950 feet. The horizontal axis shows stationing from 52 to 66. The profile includes a proposed grade line and an existing ground line. Key data points include:

- PI = 57+10.00, EL = 919.86', VC = 600', K = 1058
- BEGIN GRADE: -Y1- STA 53+35.00 (27' LT), EL. = 912.72', TIE TO EXIST PAVEMENT
- Grades: (+)1.9040%, (+)1.3366%, (+)3.3366%
- END SPECIAL DITCH GRADE LT: -Y1- STA 58+80, ELEV = 874.81'
- BEGIN SPECIAL DITCH GRADE LT: -Y1- STA 58+90, ELEV = 878.00'
- END SPECIAL DITCH GRADE LT: -Y1- STA 59+50, ELEV = 886.00'
- BEGIN SPECIAL DITCH GRADE LT: -Y1- STA 58+30, ELEV = 883.43'
- EXISTING 6' X 7' RCBC (BURIED 'Y')
- SEE SHEET NO. 5 FOR -Y1- PLAN

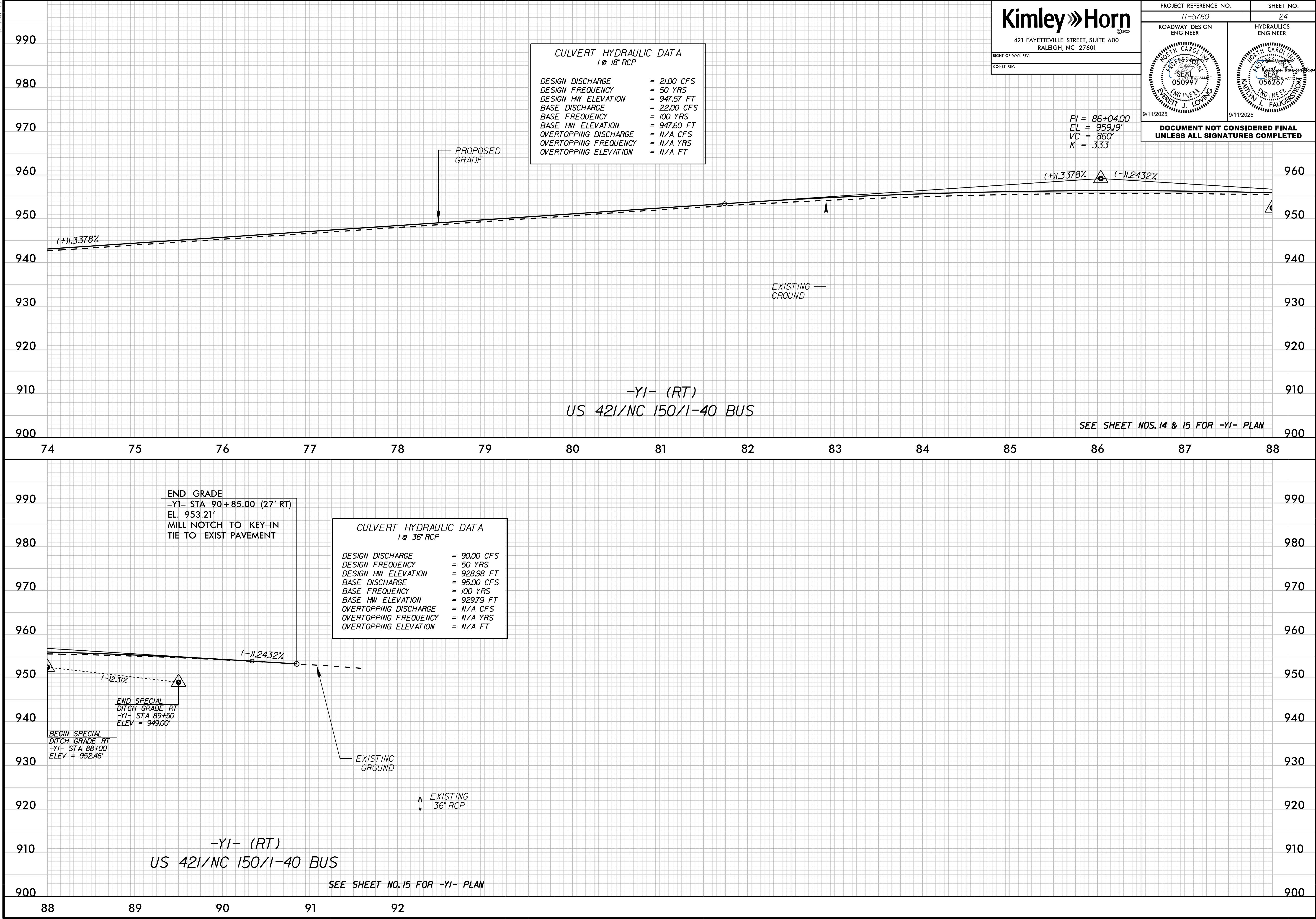




5/28/2025

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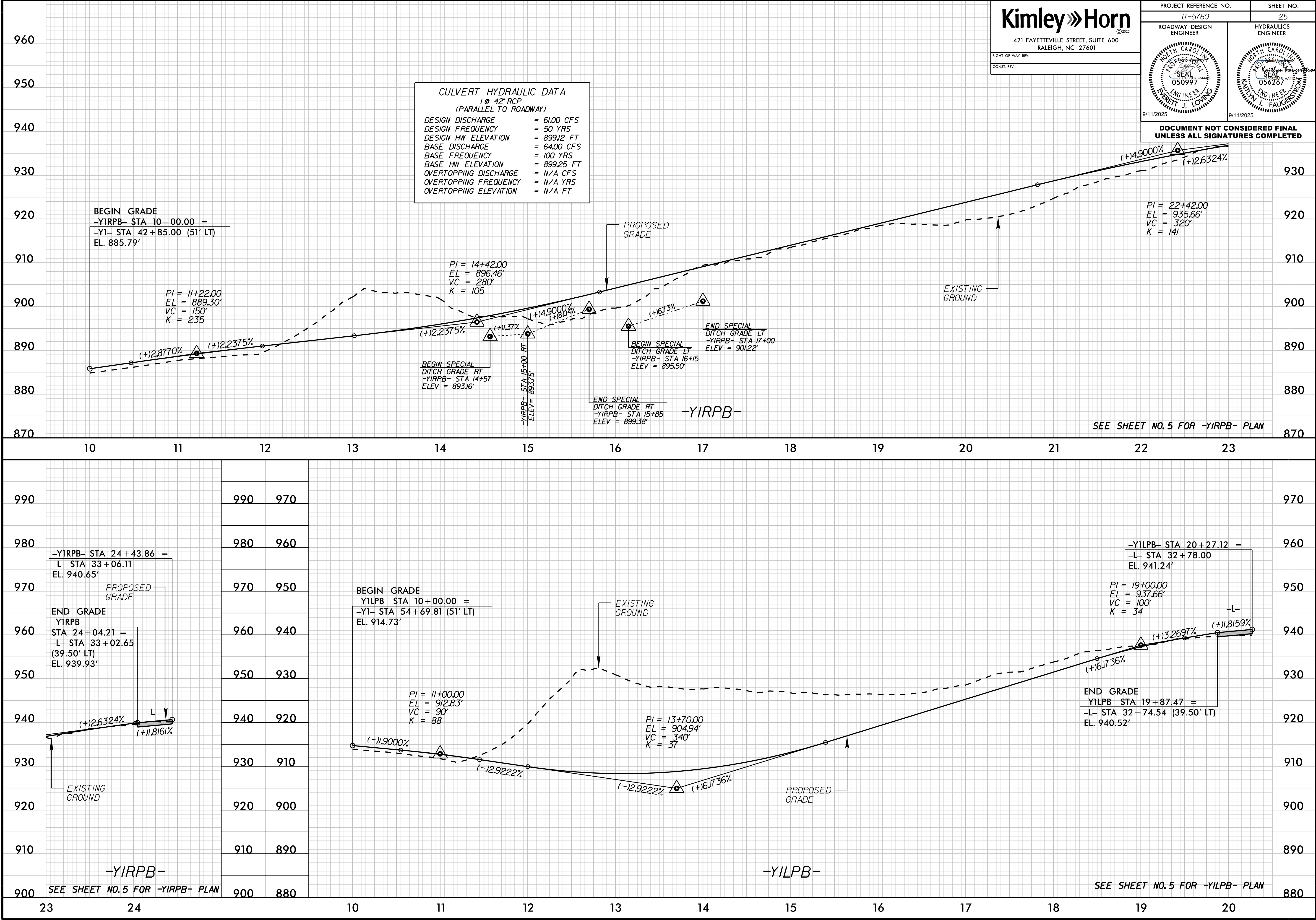
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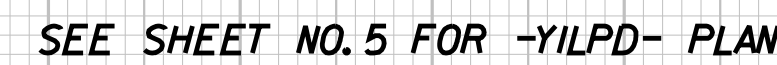


5/28/2025

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6/26/2025

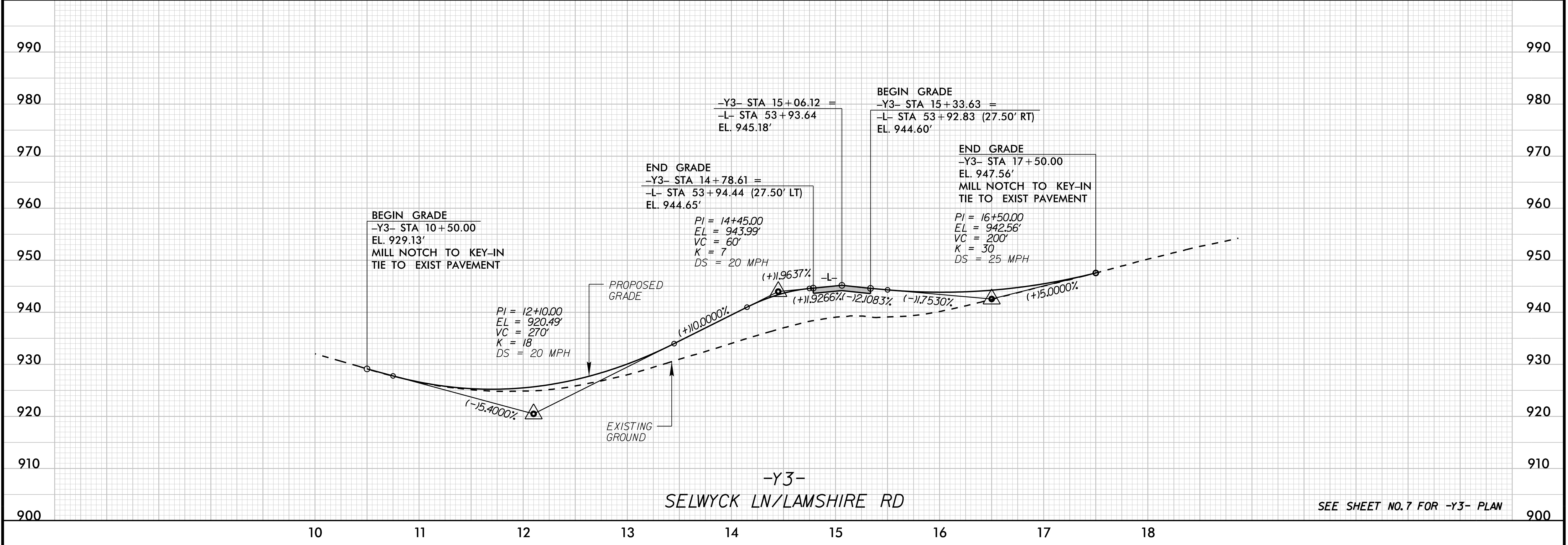
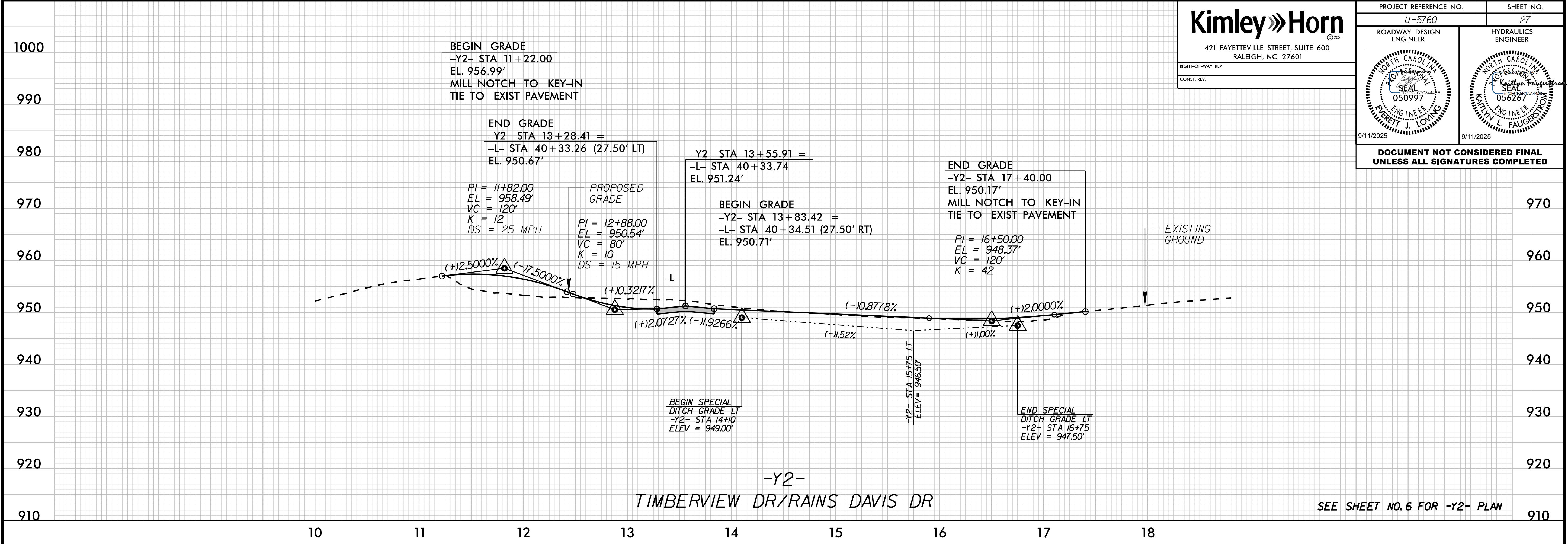




5/28/2025

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6/26/2025



Kimley»Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.
U-5760

SHEET NO.
27

ROADWAY DESIGN ENGINEER
PIRETT J. LOYING
050997
9/11/2025

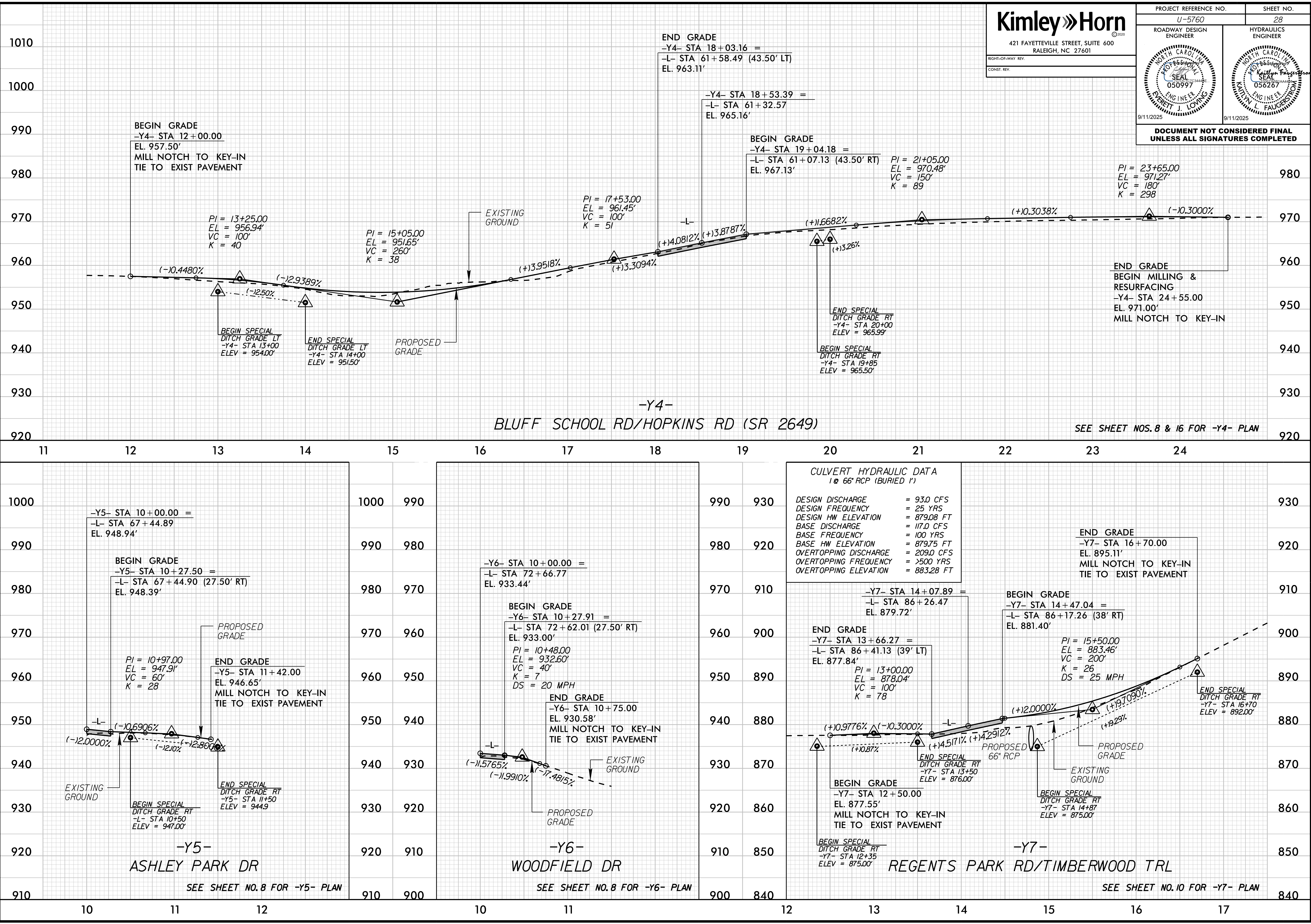
HYDRAULICS ENGINEER
KATHY L. FAUGERON
056267
9/11/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

5/28/2025

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6/26/2025



Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.
U-5760

ROADWAY DESIGN ENGINEER

9/11/2025

SHEET NO.
28

HYDRAULICS ENGINEER

9/11/2025

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PI = 13+25.00
EL = 956.94'
VC = 100'
K = 40

PI = 15+05.00
EL = 951.65'
VC = 260'
K = 38

PI = 17+53.00
EL = 961.45'
VC = 100'
K = 51

PI = 21+05.00
EL = 970.48'
VC = 150'
K = 89

PI = 23+65.00
EL = 971.27'
VC = 180'
K = 298

CULVERT HYDRAULIC DATA
1 @ 66" RCP (BURIED 1')

DESIGN DISCHARGE	= 93.0 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 879.08 FT
BASE DISCHARGE	= 117.0 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 879.75 FT
OVERTOPPING DISCHARGE	= 209.0 CFS
OVERTOPPING FREQUENCY	= >500 YRS
OVERTOPPING ELEVATION	= 883.28 FT

5/28/99

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