

8/6/13

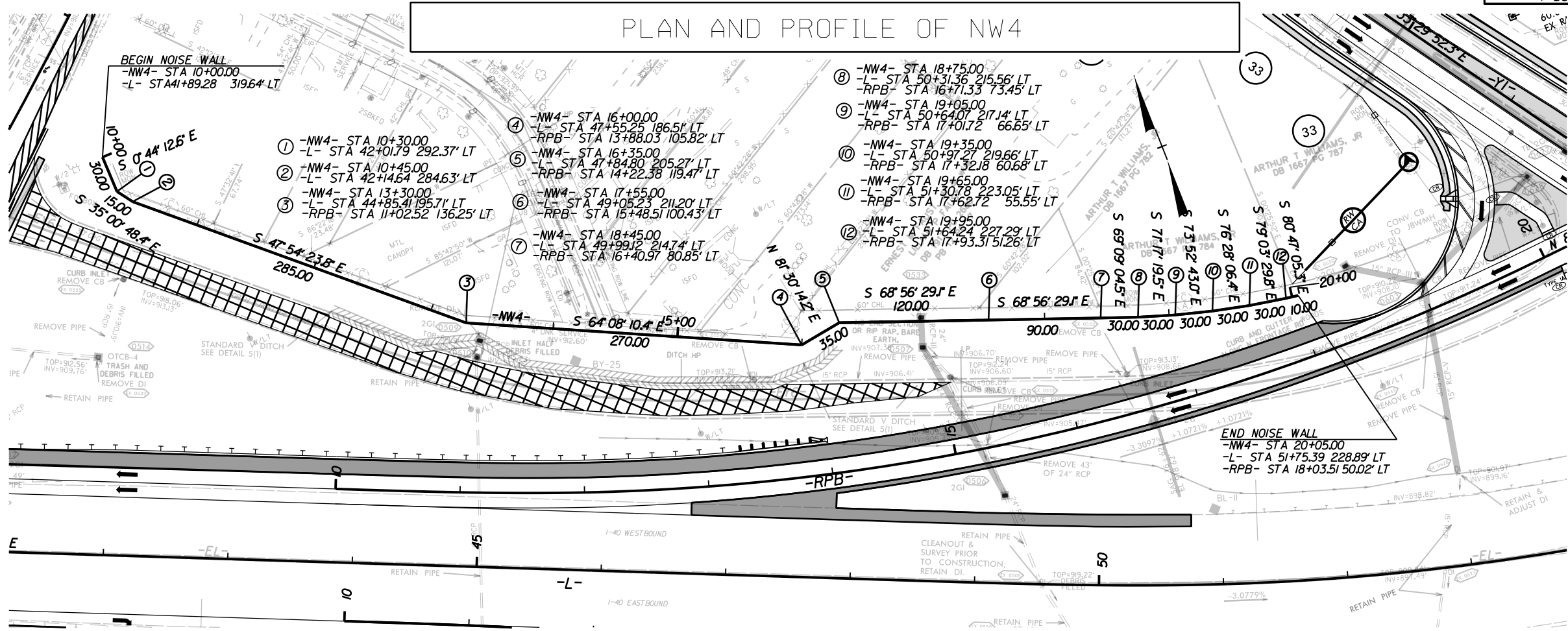
EAU
ENGINEER



Signed by Trak-Keun Kim

16650A7F83E2449...

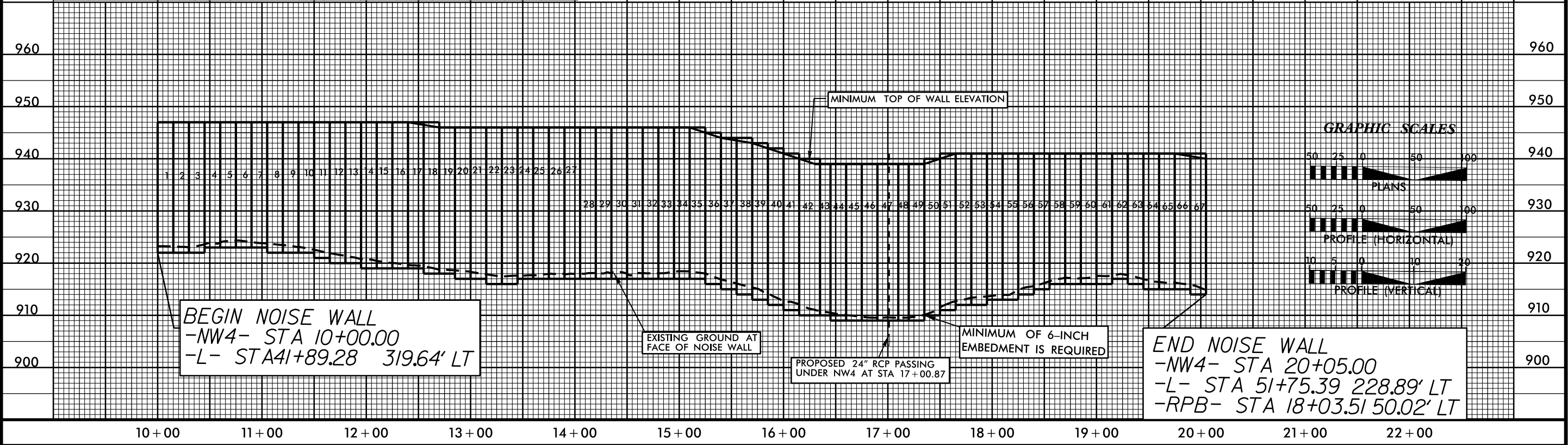
8/11/2025



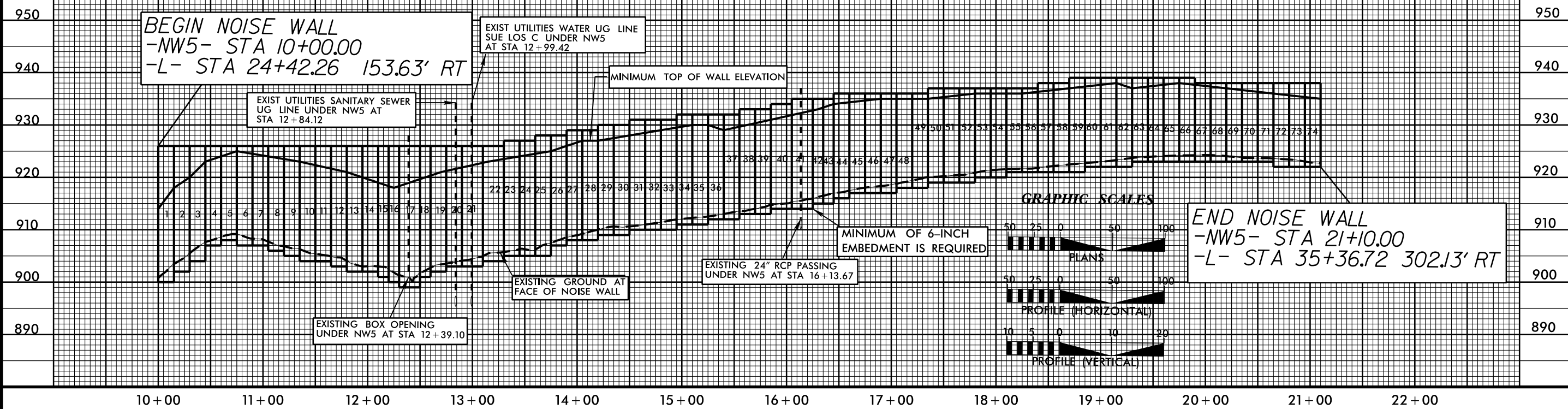
NOTE NO. 1: PANEL LENGTH WAS ADJUSTED TO AVOID PIPE CROSSING (PANEL#47=20' WIDE PANEL# 48=10' WIDE)

NW4 DESIGN DATA											
NW4	PANEL NUMBER	1-18	19-35	36	37-38	39	40	41	42	43-49	50
	TOP ELEVATION	947'	946'	945'	944'	943'	942'	941'	940'	939'	940'
	LENGTH	270'	255'	15'	30'	15'	15'	15'	20'	100'	15'

10-FEB-2025 12:40
R:\DIVISION\15880\PEA\HEU.Noise-Air\Wall Envelopes\15880 NW4_psh03.DGN



NOTE NO. 3: CONTRACTOR SHALL REMOVE EXISTING NOISE WALL EXCEPT THAT THE PILE FOUNDATIONS MAY REMAIN IN THE GROUND. CONTRACTOR TO ADJUST PROPOSED PILE LOCATIONS AS NEEDED TO AVOID CONFLICTS WITH EXISTING FOUNDATIONS PROVIDED THE TOP OF WALL ELEVATION DOES NOT CHANGE.

[illegible]

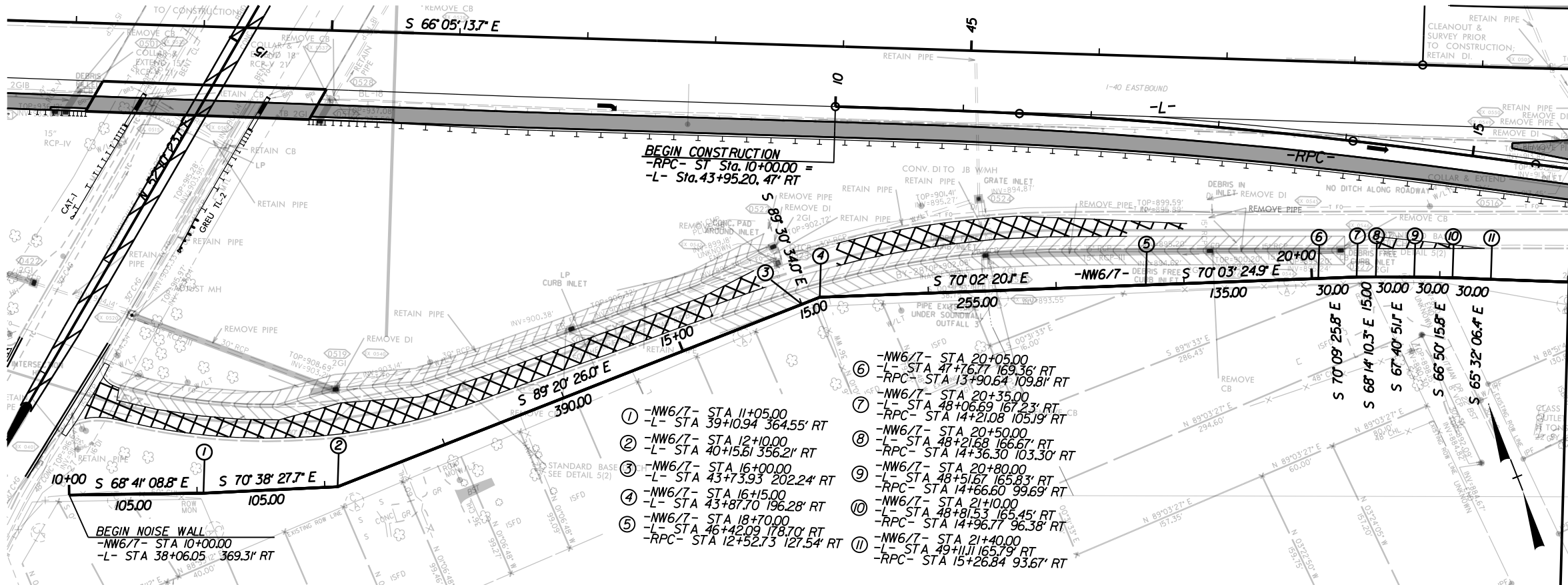
8/6/13

EAU ENGINEER



Signed: Keun Kim
16650A7F83E2449...
8/11/2025

PLAN AND PROFILE OF NW6/7



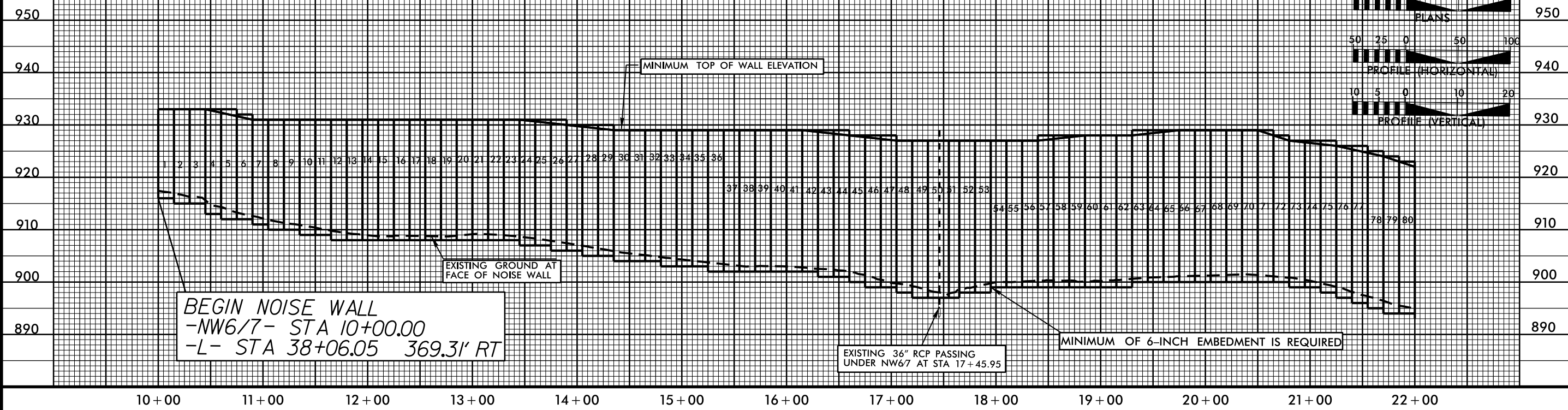
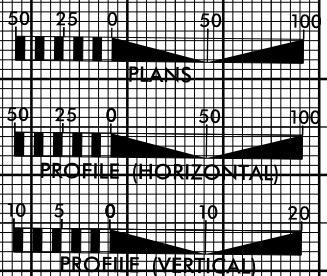
NOTE NO. 1: PANEL LENGTH WAS ADJUSTED TO AVOID PIPE CROSSING (PANEL#50=20' WIDE PANEL#51=10' WIDE)

NOTE NO. 2: FIRE HYDRANT ACCESS SHALL BE PROVIDED IN A MANNER CONSISTENT WITH EXISTING ACCESS

NOTE NO. 3: CONTRACTOR SHALL REMOVE EXISTING NOISE WALL EXCEPT THAT THE PILE FOUNDATIONS MAY REMAIN IN THE GROUND. CONTRACTOR TO ADJUST PROPOSED PILE LOCATIONS AS NEEDED TO AVOID CONFLICTS WITH EXISTING FOUNDATIONS PROVIDED THE TOP OF WALL ELEVATION DOES NOT CHANGE.

NW6/7 DESIGN DATA														
NW6/7	PANEL NUMBER	1-5	6	7-26	27-29	30-44	45-47	48-56	57-62	63-71	72	73-75	76-77	78
	TOP ELEVATION	933'	932'	931'	930'	929'	928'	927'	928'	929'	928'	927'	926'	925'
	LENGTH	75'	15'	300'	45'	225'	45'	135'	90'	135'	15'	45'	30'	15'

GRAPHIC SCALES



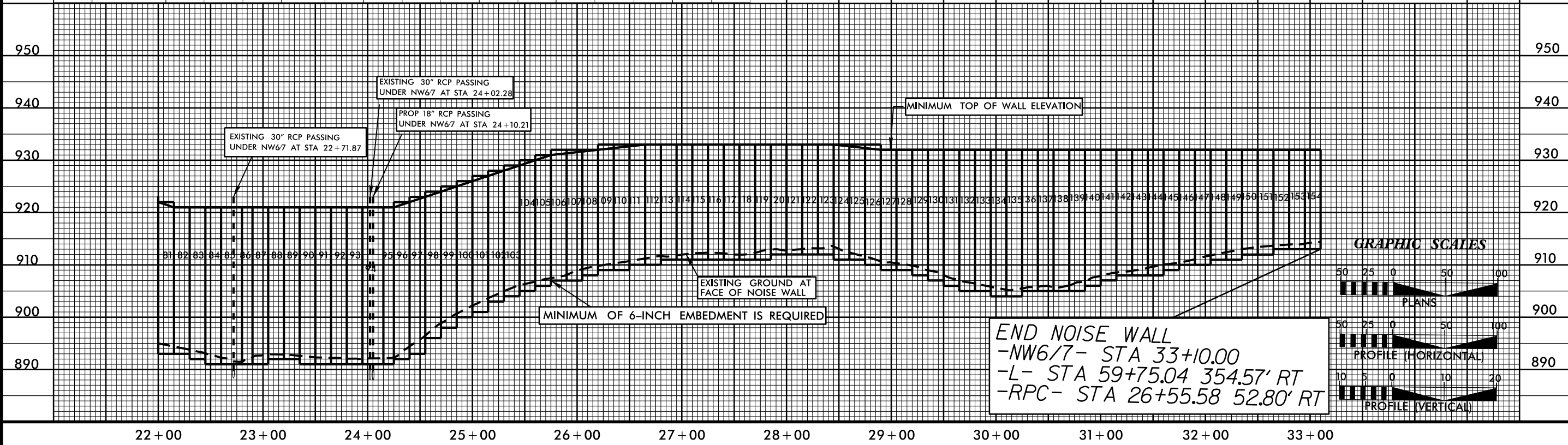
BEGIN NOISE WALL
-NW6/7- STA 10+00.00
-L- STA 38+06.05 369.31' RT

EXISTING 36" RCP PASSING UNDER NW6/7 AT STA 17+45.95

MINIMUM OF 6-INCH EMBEDMENT IS REQUIRED

10-FEB-2025 12:52
R:\DIVISION\09\15880\PEA\HEU.Noise-Air\Wall Envelopes\15880 NW67-psf05.dgn
8/11/2025 1:00:00 PM

MATCHLINE -NW6/7- STA. 22+00.00
SEE SHEET 2N-5

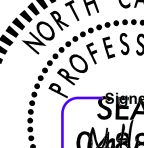


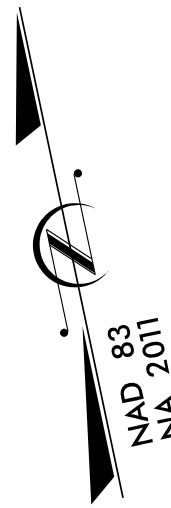
PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAMES
26	7	KRISTOPHER LITTLEJOHN
27	7	JUAN LUIS GARCIA & WIFE, GLORIA GARCIA
28	7	MARIA OFELIA SANDOVAL
29	7	PROSPERO SALGADO & WIFE, SARA SALGADO
30	7	HECTOR SALGADO
31	7	SAMUEL R HURSCH & WIFE, EMMA F HURSH
32	7	ERNEST M FAUST JR & WIFE, LILLIAN P FAUST
33	7	ARTHUR T WILLIAMS JR
34	8	A T WILLIAMS OIL COMPANY
39	8	WILCOHESS LLC
40	7	MARGIE L GRAVES
41	7	JOHN EMORY JOHNSON & WIFE PARTHELIA M JOHNSON
42	7	WILLIAMS, ARTHUR T JR HIERS
43	7	WILLIAMS, ARTHUR T JR HIERS
44	7	MARY MILLER BURNETT
46	7	GKAK PROPERTIES LLC
47	6	317 PROPERTIES LLC
48	6	TRAVIS H MOCK
15Z	7	IRFAN K JANJUA & SHAHID CHAUDHARY



Johnson, Mirmiran, & Thompson Inc
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: C-3097

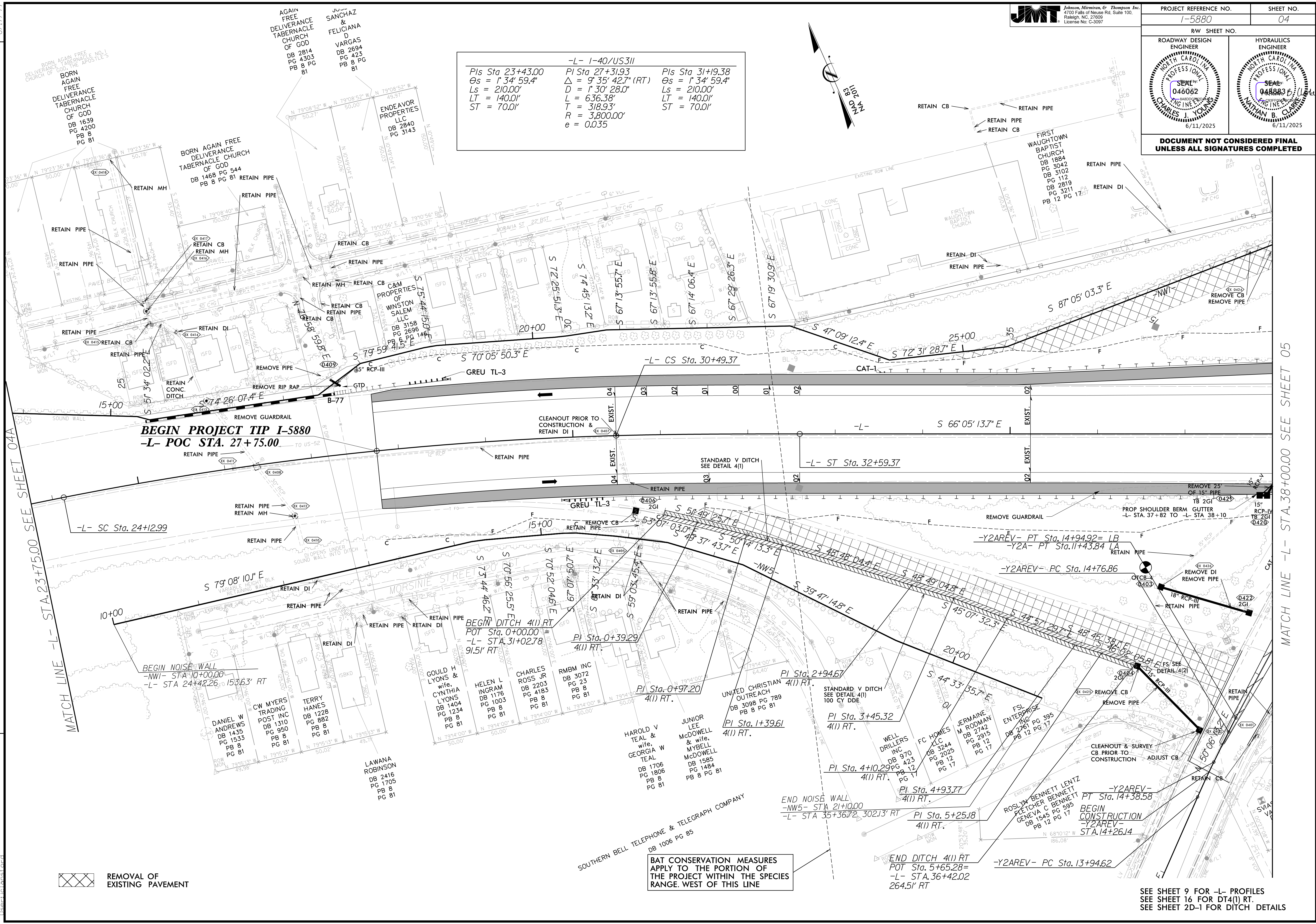
PROJECT REFERENCE NO.		SHEET NO.	
I-5880		04A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
6/11/2025		6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



8/17/2025

3/17/2025 1:37:34 PM
m:\projects\15880\15880-dtl-sh_04.dgn
m:\projects\15880\15880-dtl-sh_04.dgn

REVISIONS



PROJECT REFERENCE NO. 1-5880		SHEET NO. 04	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-L- I-40/US311
Pls Sta 23+43.00
Os = 1' 34' 59.4"
Ls = 210.00'
LT = 140.01'
ST = 70.01'
PI Sta 27+31.93
Δ = 9' 35' 42.7" (RT)
D = 1' 30' 28.0"
L = 636.38'
T = 318.93'
R = 3,800.00'
e = 0.035
Pls Sta 31+19.38
Os = 1' 34' 59.4"
Ls = 210.00'
LT = 140.01'
ST = 70.01'

BEGIN PROJECT TIP 1-5880
-L- POC STA. 27+75.00

MATCH LINE -L- STA. 23+75.00 SEE SHEET 04A

MATCH LINE -L- STA. 38+00.00 SEE SHEET 05

REMOVAL OF EXISTING PAVEMENT

BAT CONSERVATION MEASURES
APPLY TO THE PORTION OF
THE PROJECT WITHIN THE SPECIES
RANGE, WEST OF THIS LINE

SEE SHEET 9 FOR -L- PROFILES
SEE SHEET 16 FOR DT4(I) RT.
SEE SHEET 2D-1 FOR DITCH DETAILS

8/17/2025

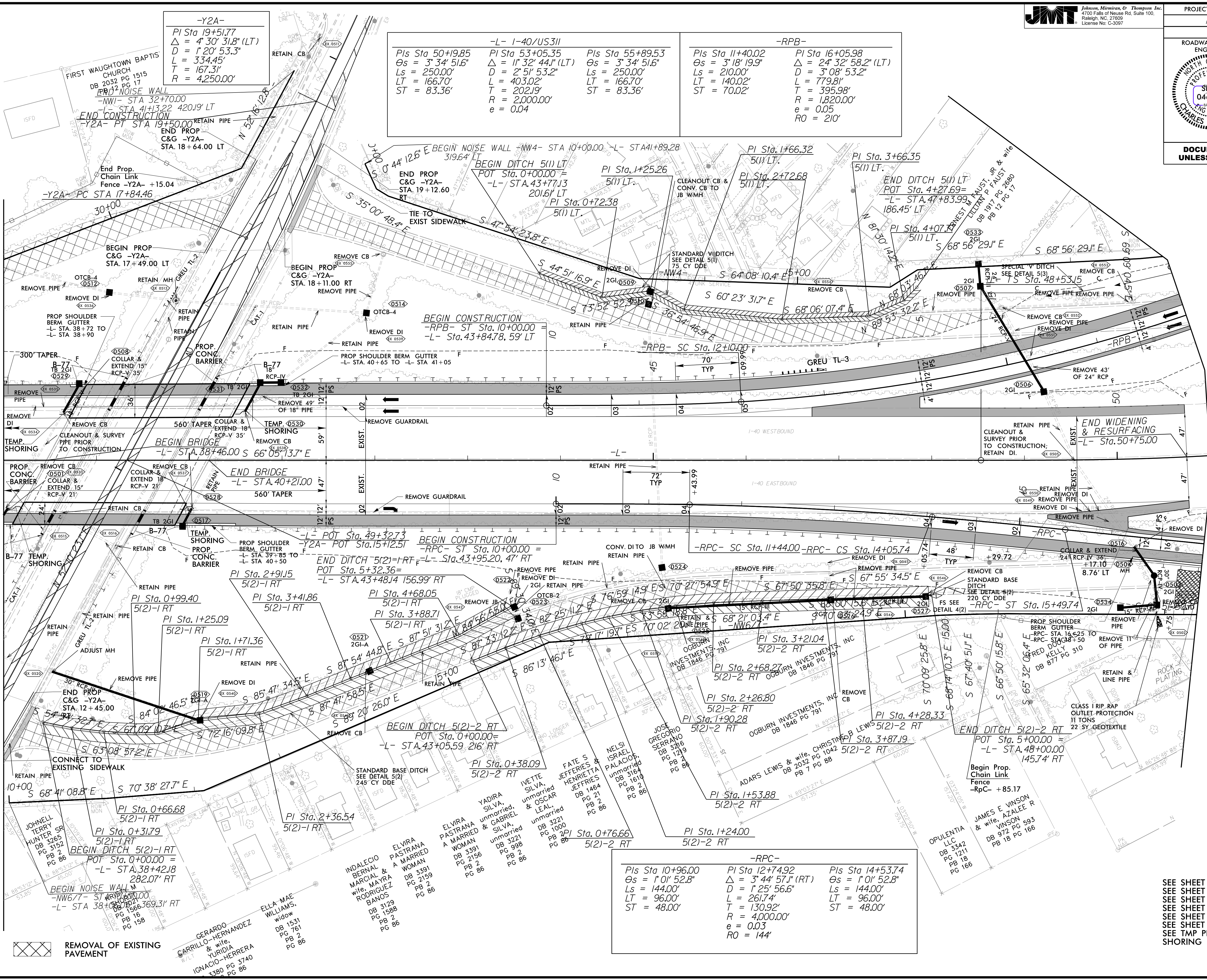
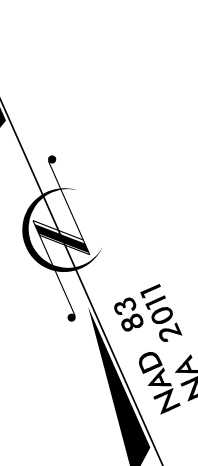


Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC 27609
License No. C-3097

PROJECT REFERENCE NO.		SHEET NO.
1-5880		05
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

MATCH LINE -L- STA.38+00.00 SEE SHEET 04

MATCH LINE -L- STA.51+00.00 SEE SHEET 07



REMOVAL OF EXISTING PAVEMENT

-L- I-40/US311		
Pls Sta 50+9.85 Os = 3° 34' 51.6" Ls = 250.00' LT = 166.70' ST = 83.36'	PI Sta 53+05.35 Δ = 11° 32' 44.1" (LT) Ls = 250.00' LT = 166.70' ST = 83.36'	Pls Sta 55+89.53 Os = 3° 34' 51.6" Ls = 250.00' LT = 166.70' ST = 83.36'

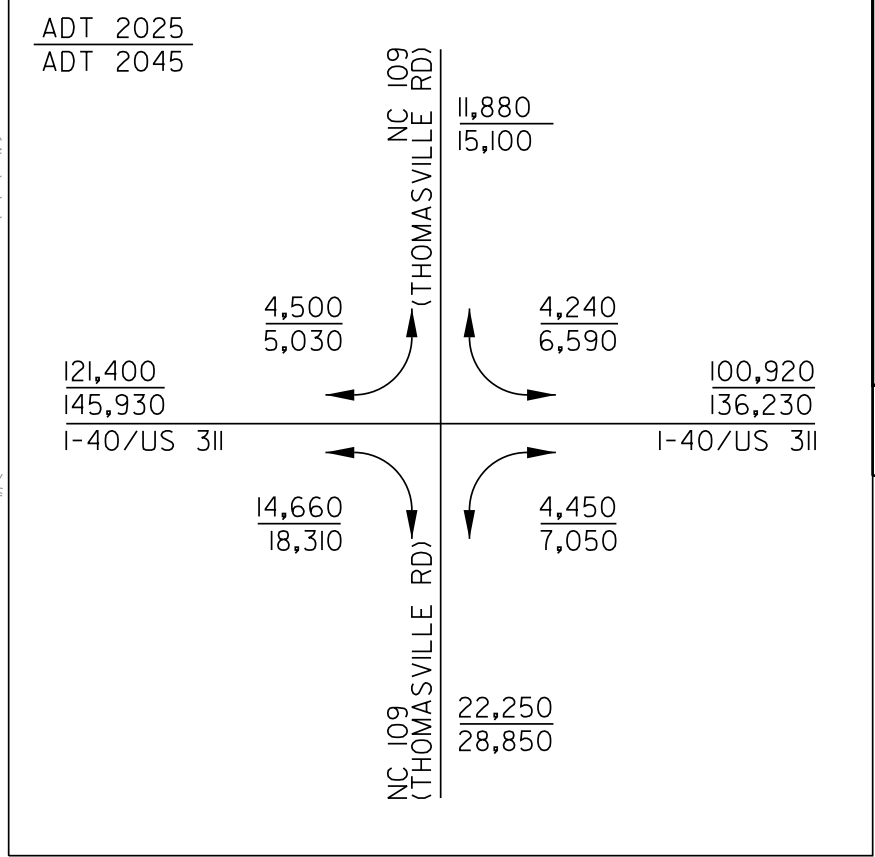
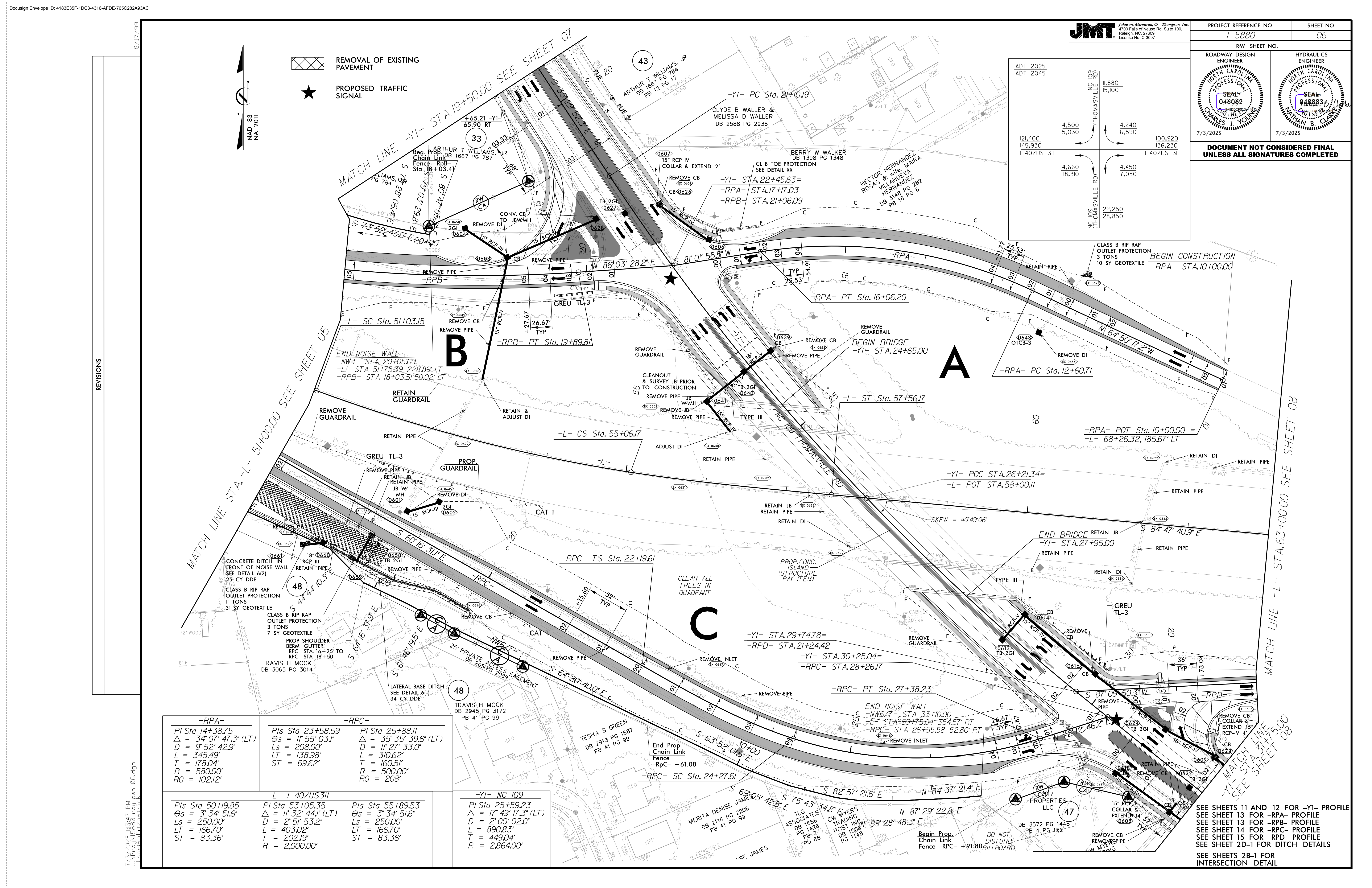
-RPB-	
Pls Sta 11+40.02 Os = 3° 18' 19.9" Ls = 210.00' LT = 140.02' ST = 70.02'	PI Sta 16+05.98 Δ = 24° 32' 58.2" (LT) Ls = 779.81' T = 395.98' R = 1,820.00' e = 0.05 RO = 210'

-RPC-		
Pls Sta 10+96.00 Os = 1° 01' 52.8" Ls = 144.00' LT = 96.00' ST = 48.00'	PI Sta 12+74.92 Δ = 3° 44' 57.1" (RT) Ls = 261.74' T = 130.92' R = 4,000.00' e = 0.03 RO = 144'	Pls Sta 14+53.74 Os = 1° 01' 52.8" Ls = 144.00' LT = 96.00' ST = 48.00'

SEE SHEET 10 FOR -L- PROFILES
SEE SHEET 13 FOR -RPB- PROFILE
SEE SHEET 14 FOR -RPC- PROFILE
SEE SHEET 17 FOR DT5(1) LT. & DT5(2) LT.
SEE SHEET 2D-1 FOR DITCH DETAILS
SEE TMP PLANS FOR SHORING LOCATIONS

REVISIONS

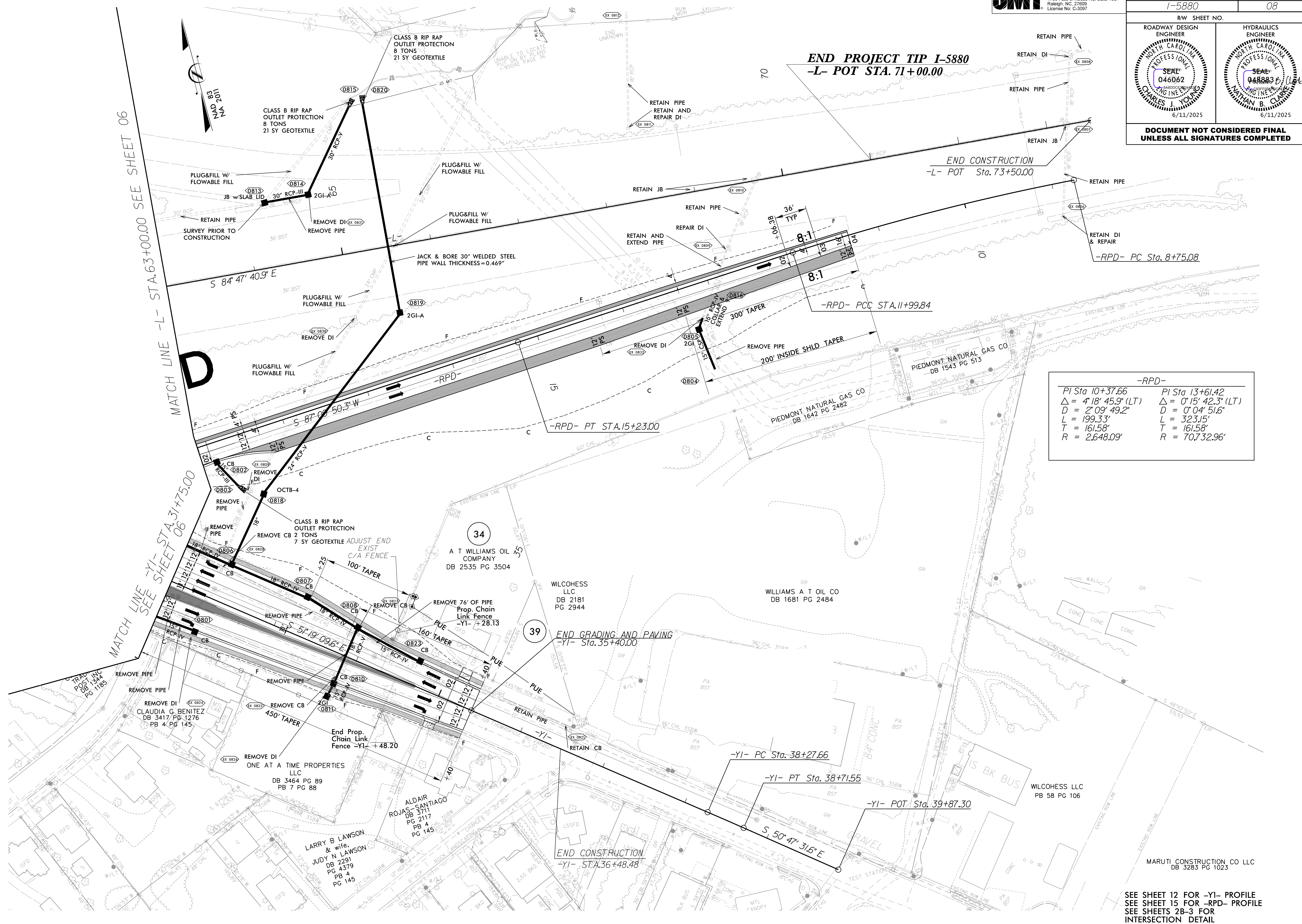
5/29/2025 10:40 PM
JMT
JMT



-RPA- PI Sta 14+38.75 Δ = 34° 07' 47.3" (LT) D = 9' 52' 42.9" L = 345.49' T = 178.04' R = 580.00' RO = 102.12'	-RPC- PI Sta 23+58.59 Δ = 11° 55' 03.1" Ls = 208.00' LT = 138.98' ST = 69.62'	-RPC- PI Sta 25+88.11 Δ = 35° 35' 39.6" (LT) D = 11' 27' 33.0" L = 310.62' T = 160.51' R = 500.00' RO = 208'
-L- I-40/US311 PI Sta 50+19.85 Δ = 3° 34' 51.6" Ls = 250.00' LT = 166.70' ST = 83.36'	-L- I-40/US311 PI Sta 53+05.35 Δ = 11° 32' 44.1" (LT) D = 2' 51' 53.2" L = 403.02' T = 202.19' R = 2,000.00'	-L- I-40/US311 PI Sta 55+89.53 Δ = 3° 34' 51.6" Ls = 250.00' LT = 166.70' ST = 83.36'

-YI- NC 109 PI Sta 25+59.23 Δ = 17° 49' 17.3" (LT) D = 2' 00' 02.0" L = 890.83' T = 449.04' R = 2,864.00'
--

SEE SHEETS 11 AND 12 FOR -YI- PROFILE
SEE SHEET 13 FOR -RPA- PROFILE
SEE SHEET 14 FOR -RPC- PROFILE
SEE SHEET 15 FOR -RPD- PROFILE
SEE SHEET 2D-1 FOR DITCH DETAILS
SEE SHEETS 2B-1 FOR
INTERSECTION DETAIL



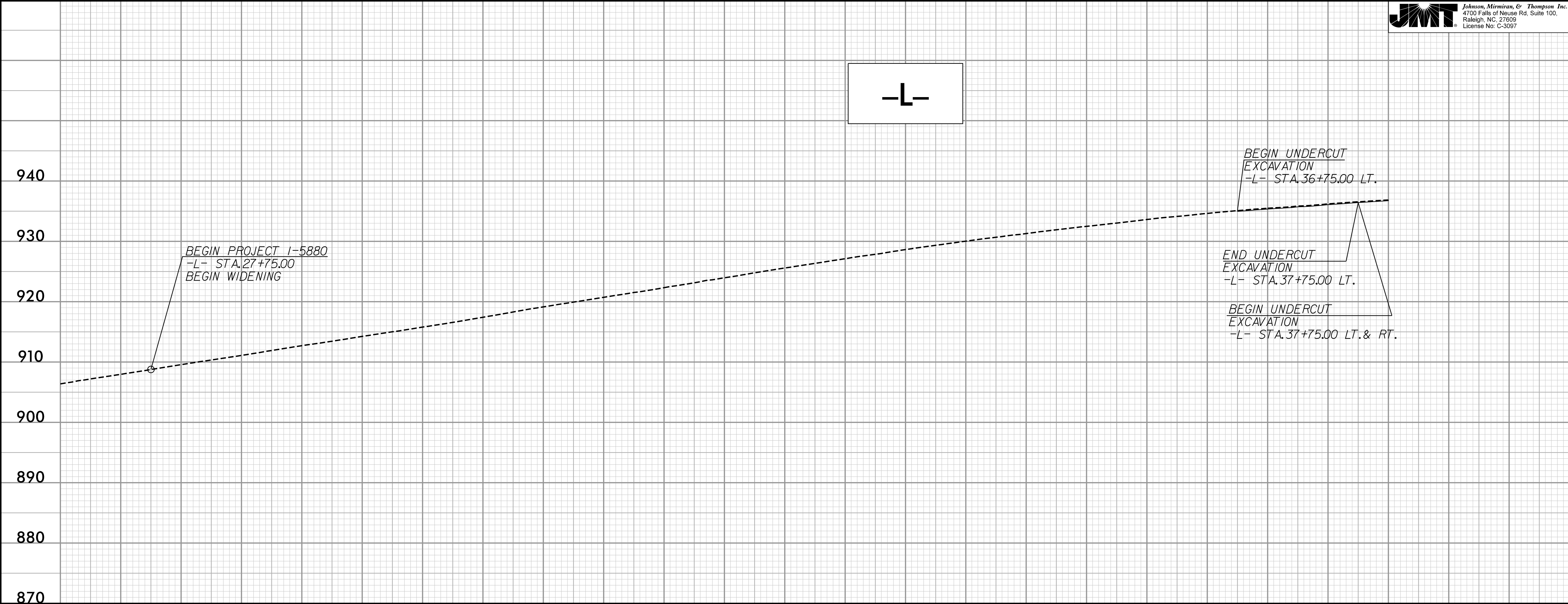
SEE SHEET 12 FOR -Y1- PROFILE
SEE SHEET 15 FOR -RPD- PROFILE
SEE SHEETS 2B-3 FOR
INTERSECTION DETAIL

5/28/24

JMT

Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd. Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO. <i>1-5880</i>		SHEET NO. <i>09</i>
ROADWAY DESIGN ENGINEER PROFESSIONAL SEAL 046062 ENGINEER CHARLES J. YOUNG 6/11/2025	HYDRAULICS ENGINEER PROFESSIONAL SEAL 048883 ENGINEER NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



SEE SHEET 4 FOR -L- PLAN



5/28/24



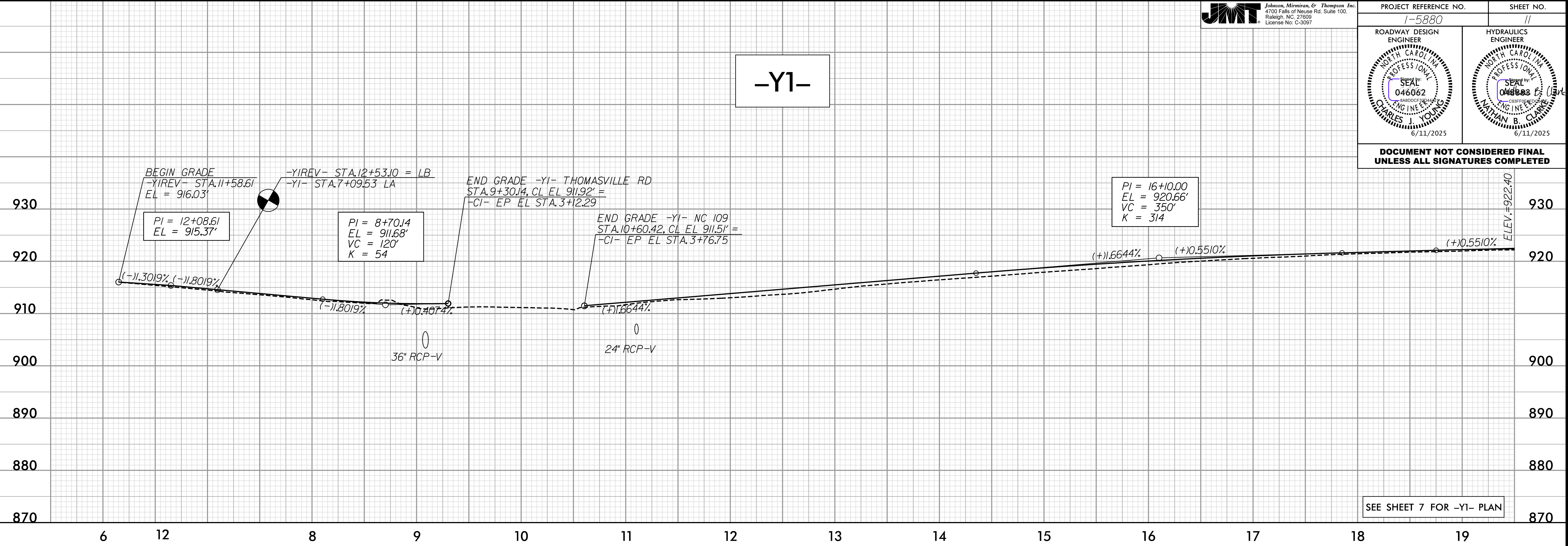
Johnson, Mirman, & Thompson Inc.

4700 Falls of Neuse Rd, Suite 100,

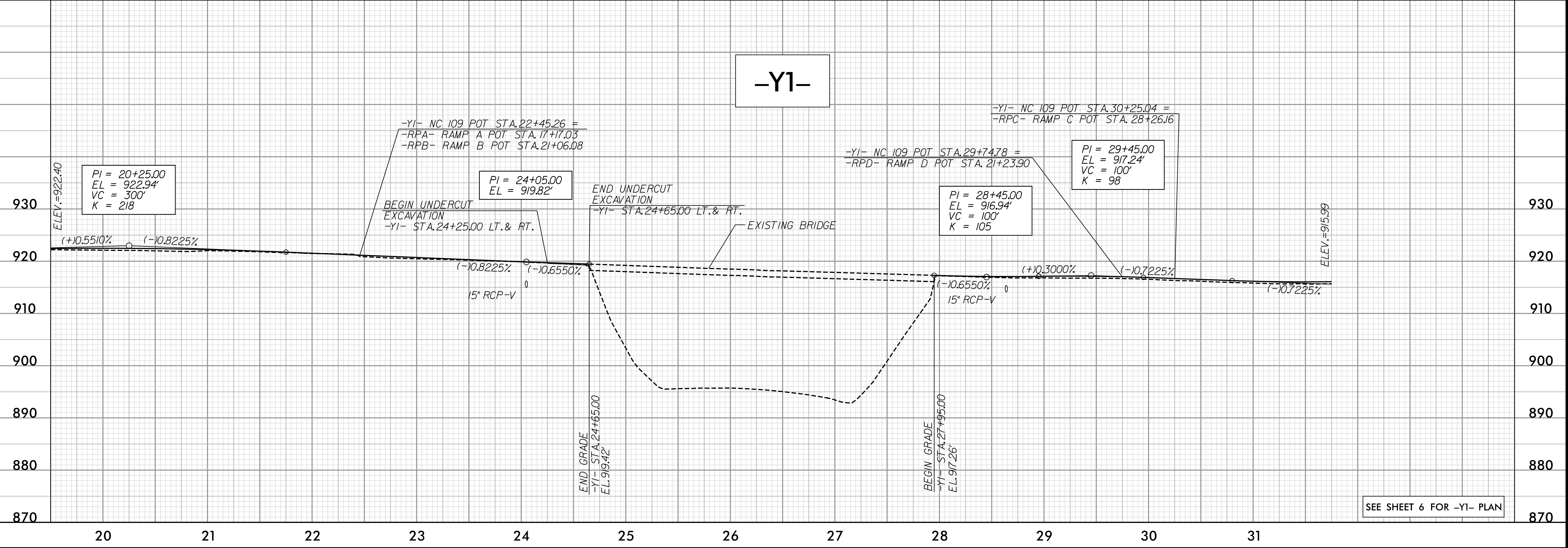
Raleigh, NC 27609

License No: C-3097

PROJECT REFERENCE NO. 1-5880		SHEET NO. 11
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046062 ENGINEER CHARLES J. YOUNG 6/11/2025	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046062 ENGINEER NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



4/1/2025 8:04:11AM
15880.dwg
m:\spec\planford



5/28/2025

3/18/2025 2:43:30 PM
T:\Projects\2025\04\01\12.dgn
m:\scott\landford



Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd. Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO.

1-5880

SHEET NO.

12

ROADWAY DESIGN
ENGINEER

NORTH CAROLINA
PROFESSIONAL

SEAL

046062

ENGINEER

CHARLES J. YOUNG

6/11/2025

HYDRAULICS
ENGINEER

NORTH CAROLINA
PROFESSIONAL

SEAL

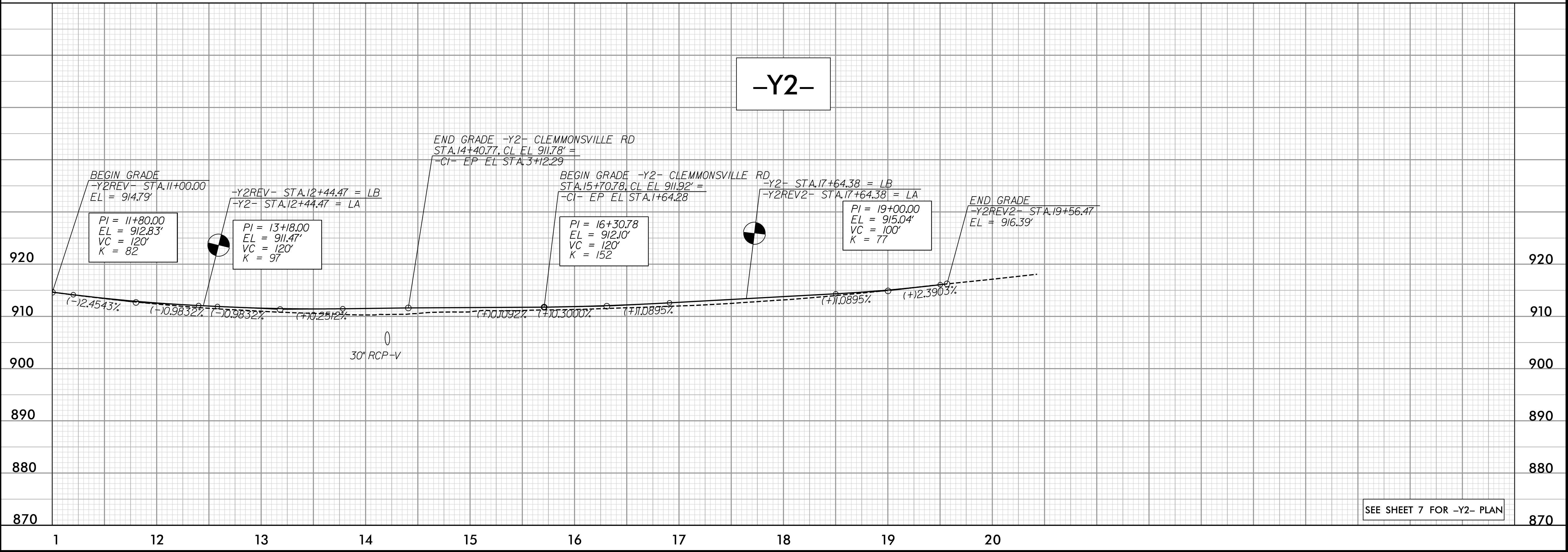
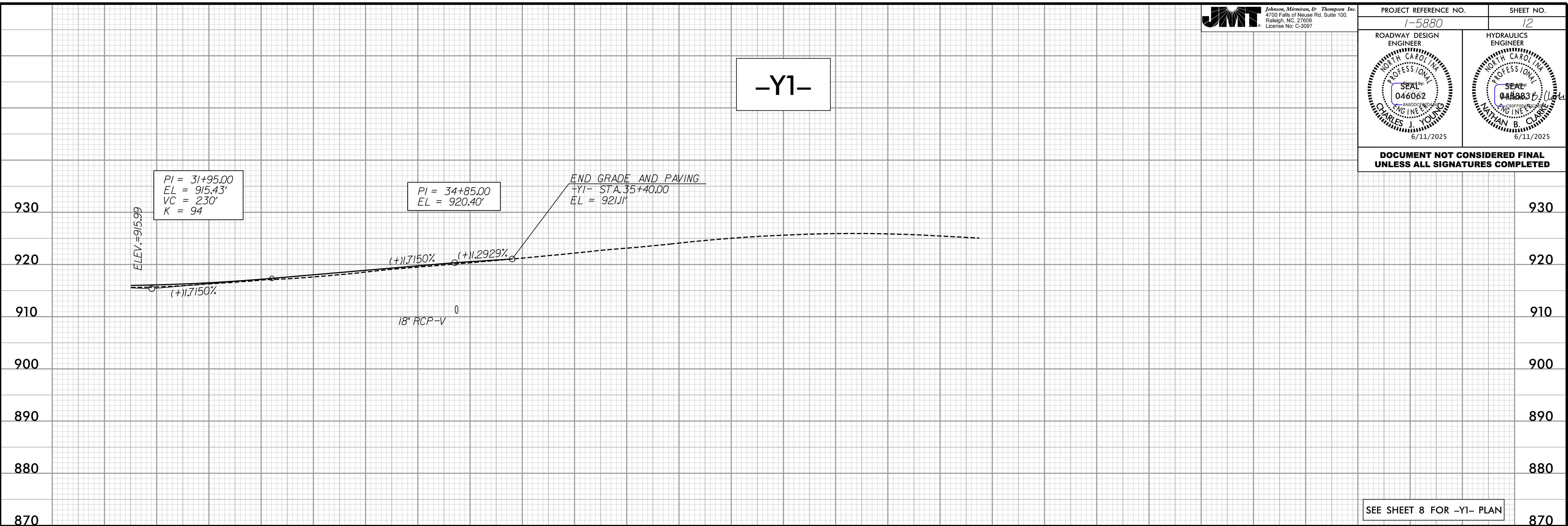
046062

ENGINEER

VATHAN B. CLARK

6/11/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

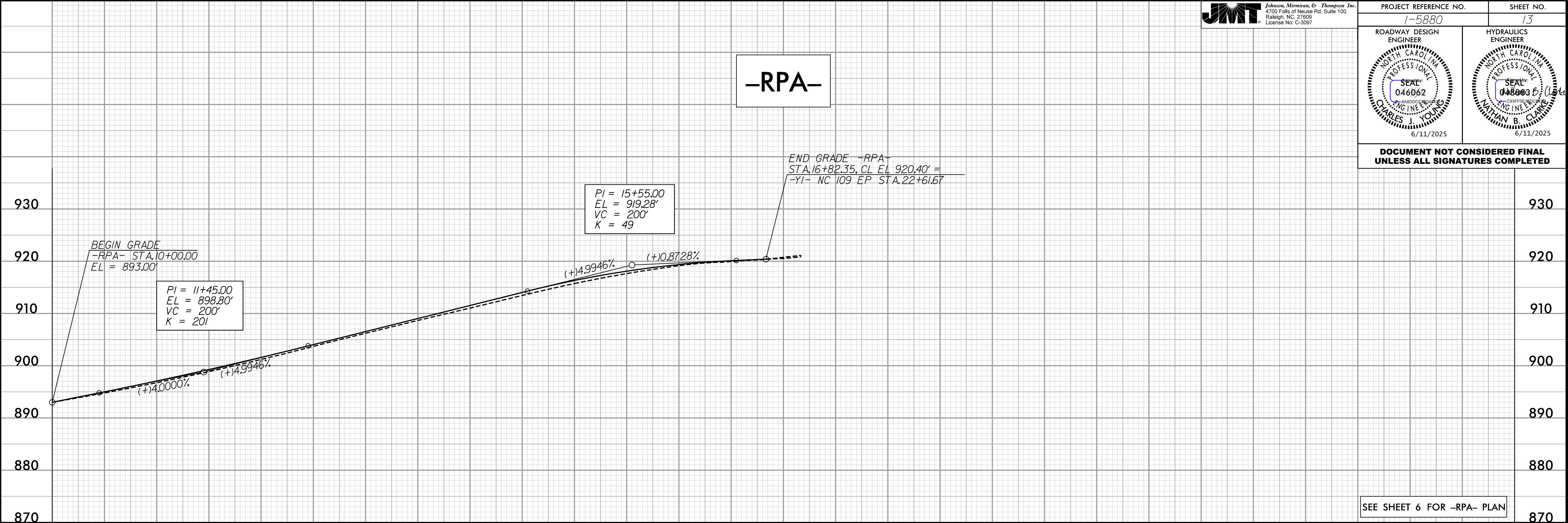


5/28/25

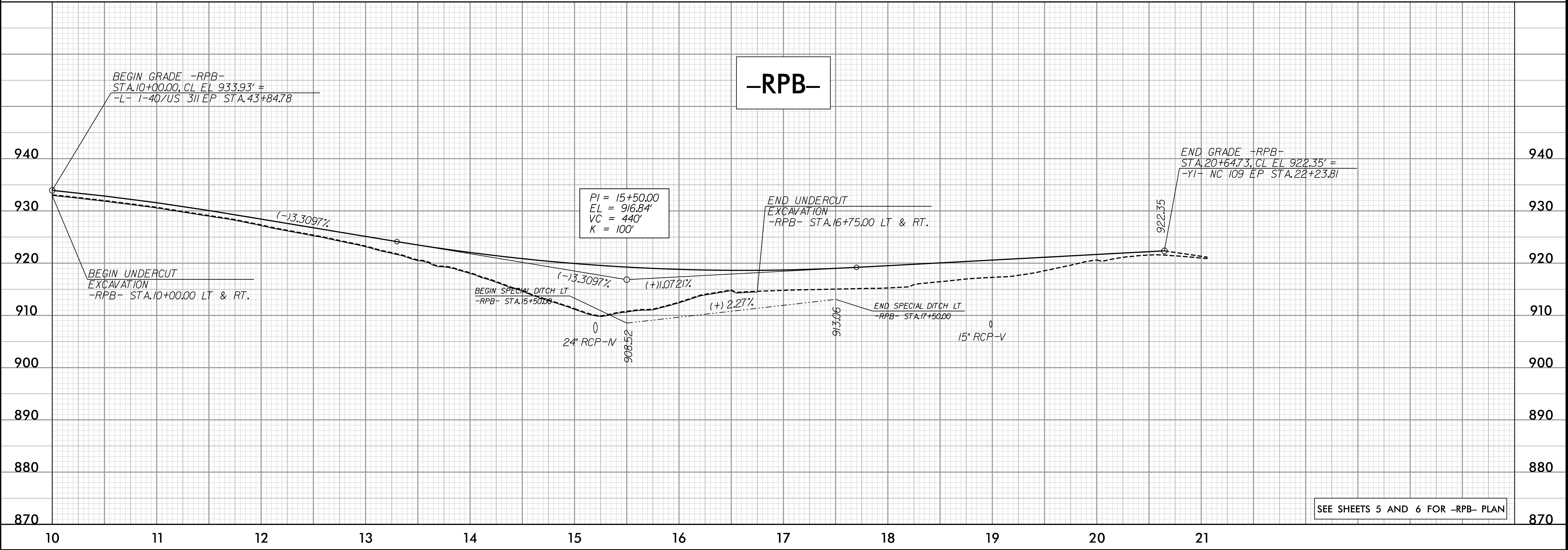
JMT

Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd. Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO. 1-5880		SHEET NO. 13
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046062 ENGINEER CHARLES J. YOUNG 6/11/2025	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046062 ENGINEER NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



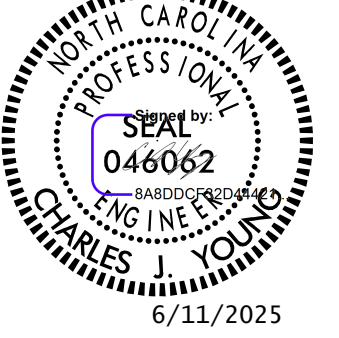
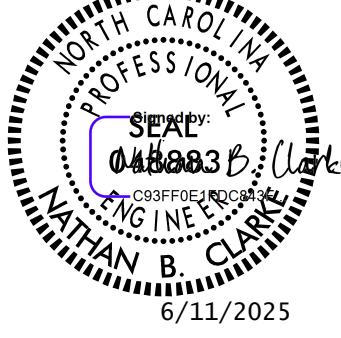
3/18/2025 3:00:35 PM
1-5880.dgn
m:\spec\clarkford

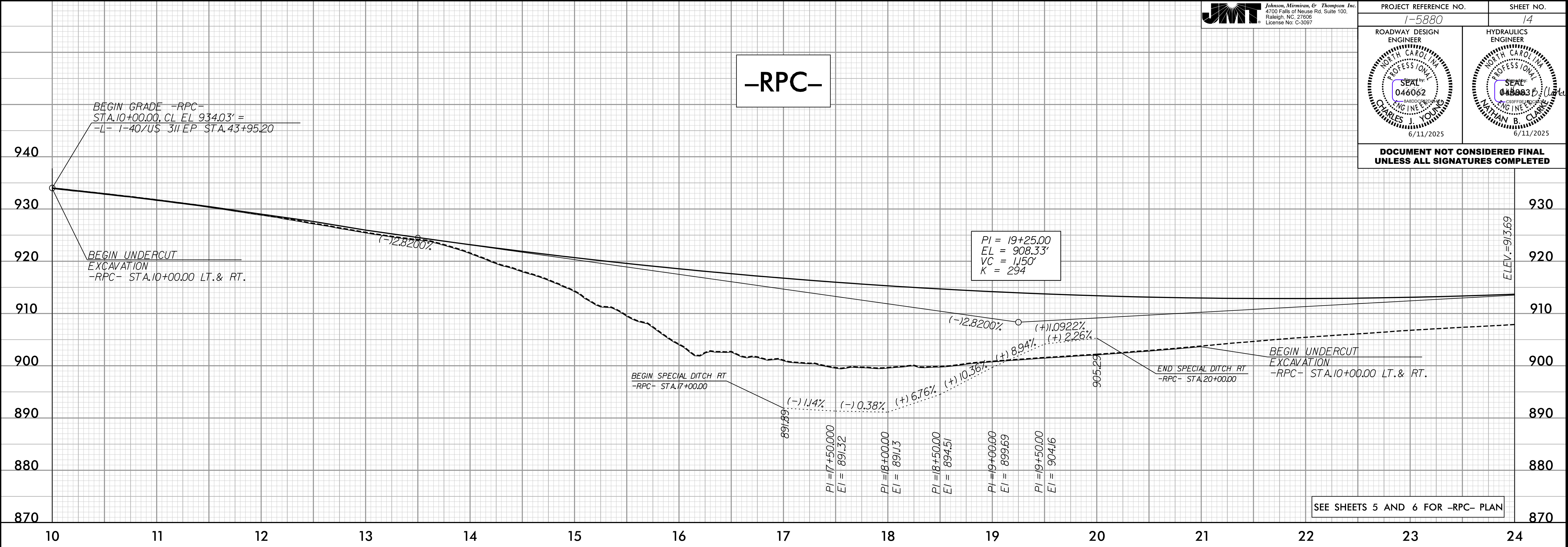


5/28/25

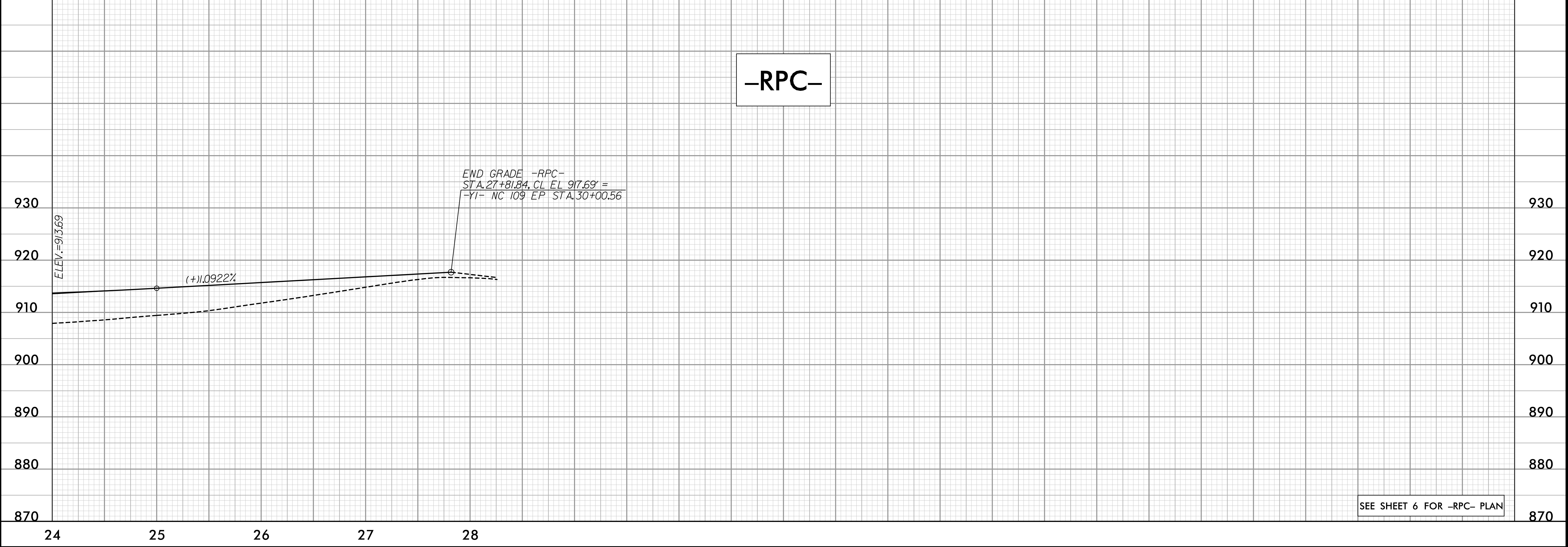


Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO. <i>1-5880</i>		SHEET NO. <i>14</i>
ROADWAY DESIGN ENGINEER  CHARLES J. YOUNG 6/11/2025	HYDRAULICS ENGINEER  NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



3/18/2025 3:46:06 PM
T:\Projects\14.dgn
m:\spec\landford

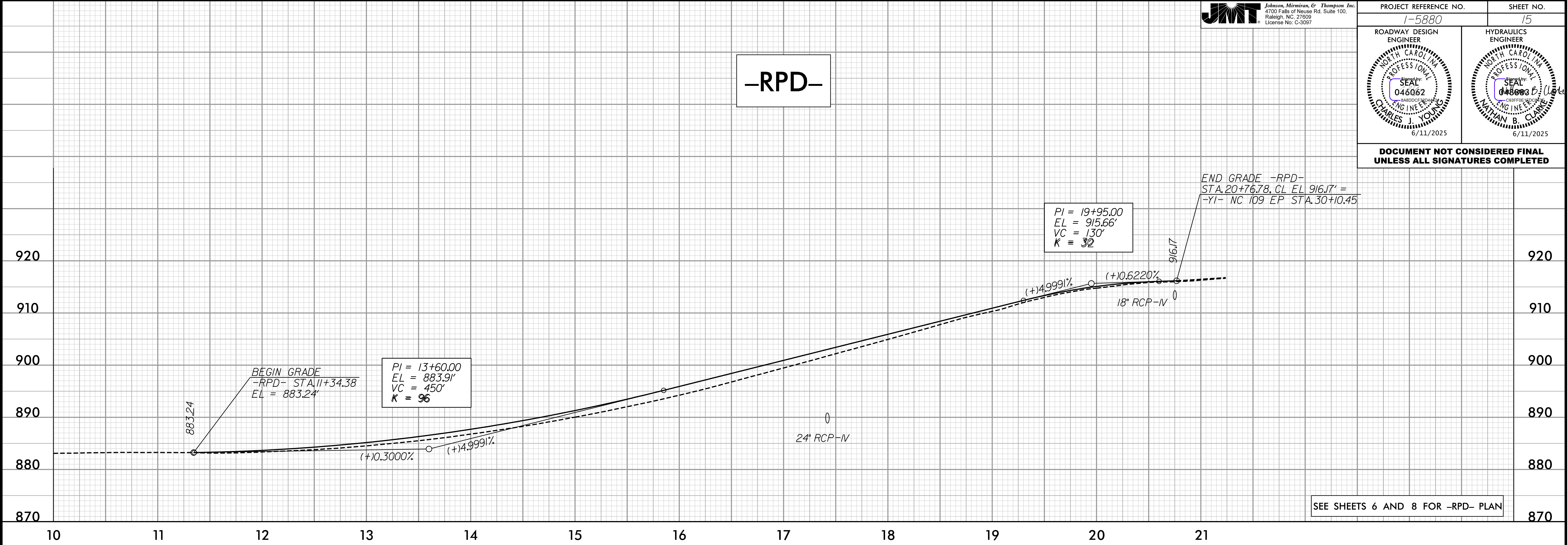


5/28/25

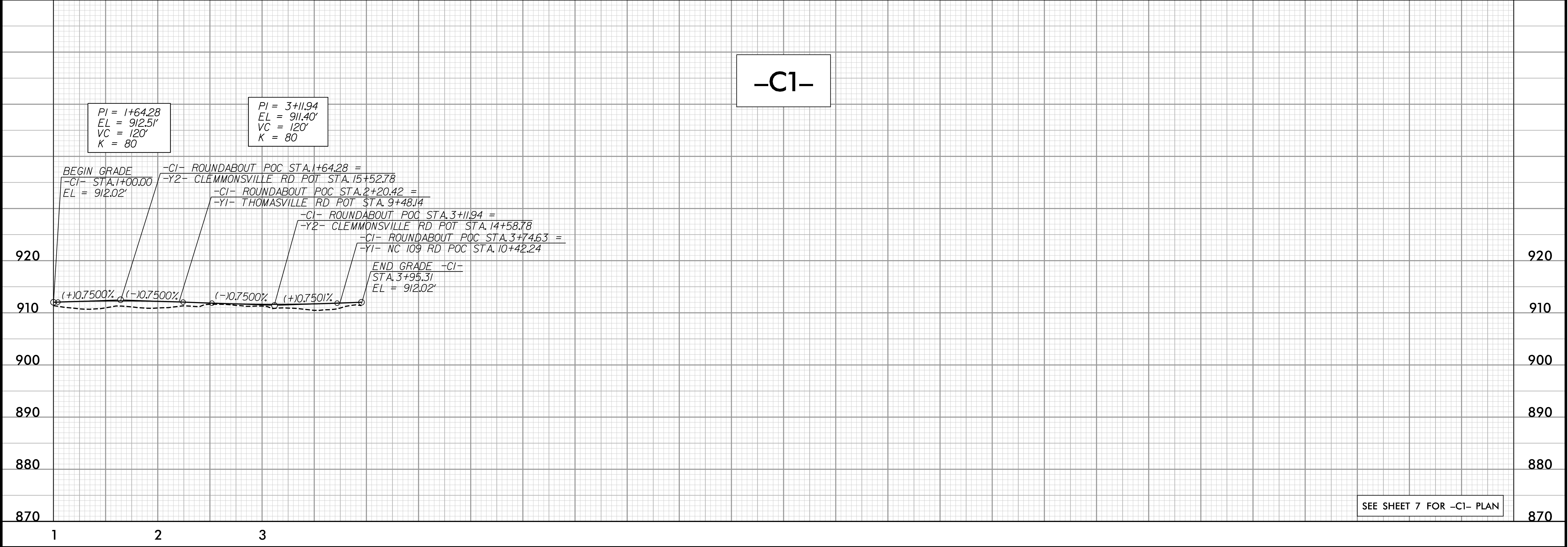
JMT

Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd. Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO.		SHEET NO.
I-5880		15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
NORTH CAROLINA PROFESSIONAL SEAL 046062 ENGINEER CHARLES J. YOUNG 6/11/2025	NORTH CAROLINA PROFESSIONAL SEAL 046063 ENGINEER NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



2/6/2025 11:52:19 AM
I:\Projects\15880-Roadway\15.dgn





1-5880

16

CA 85

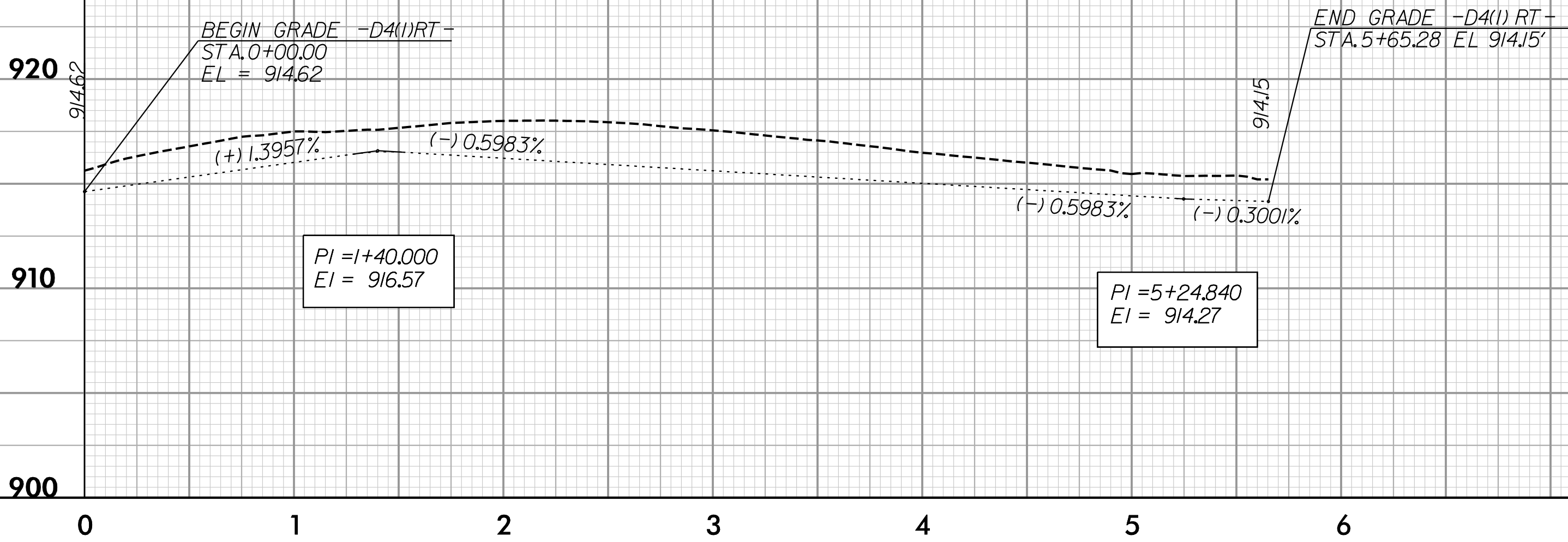
6/11/2021

CA 8

6/11/202

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

—DT4(1) RT—



SEE SHEET 2D-1 FOR DITCH DETAIL 4(1)

SEE SHEET 4 FOR -DT4(1) RT- PLAN

920

910

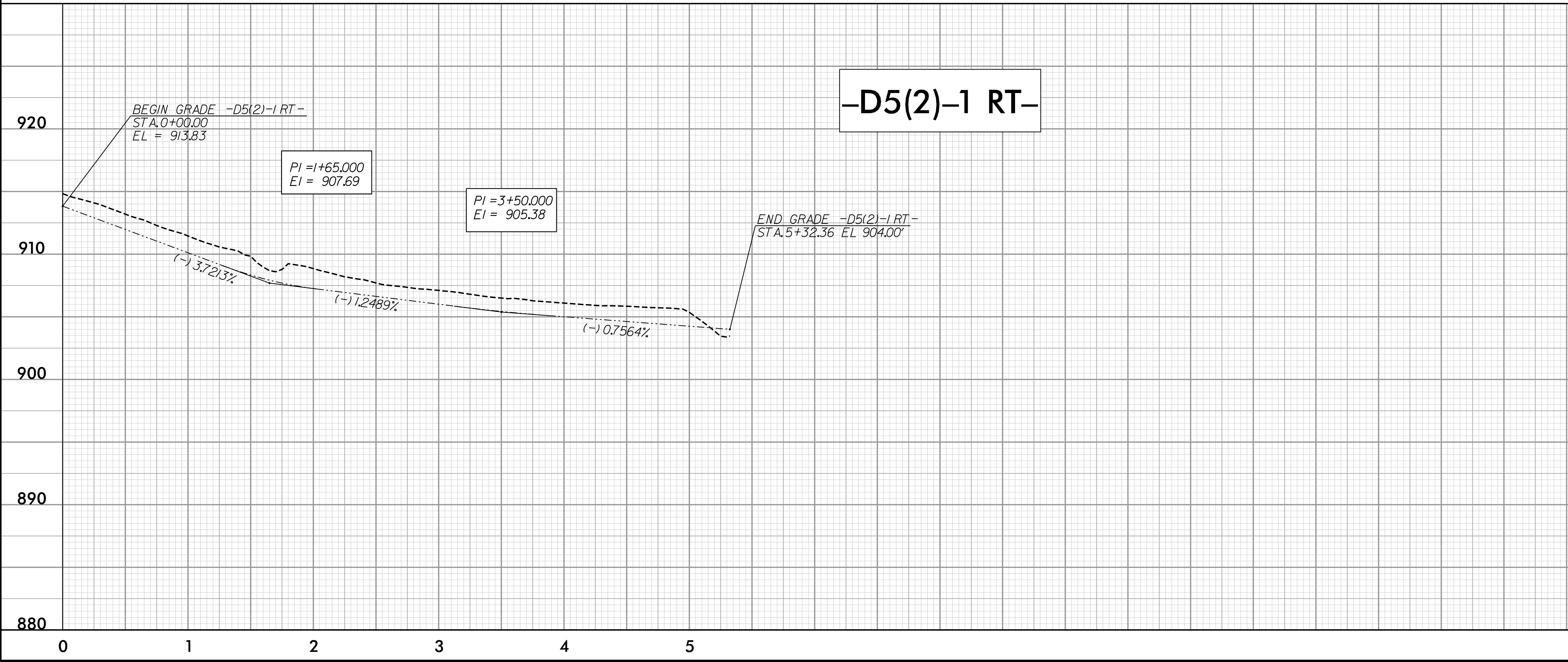
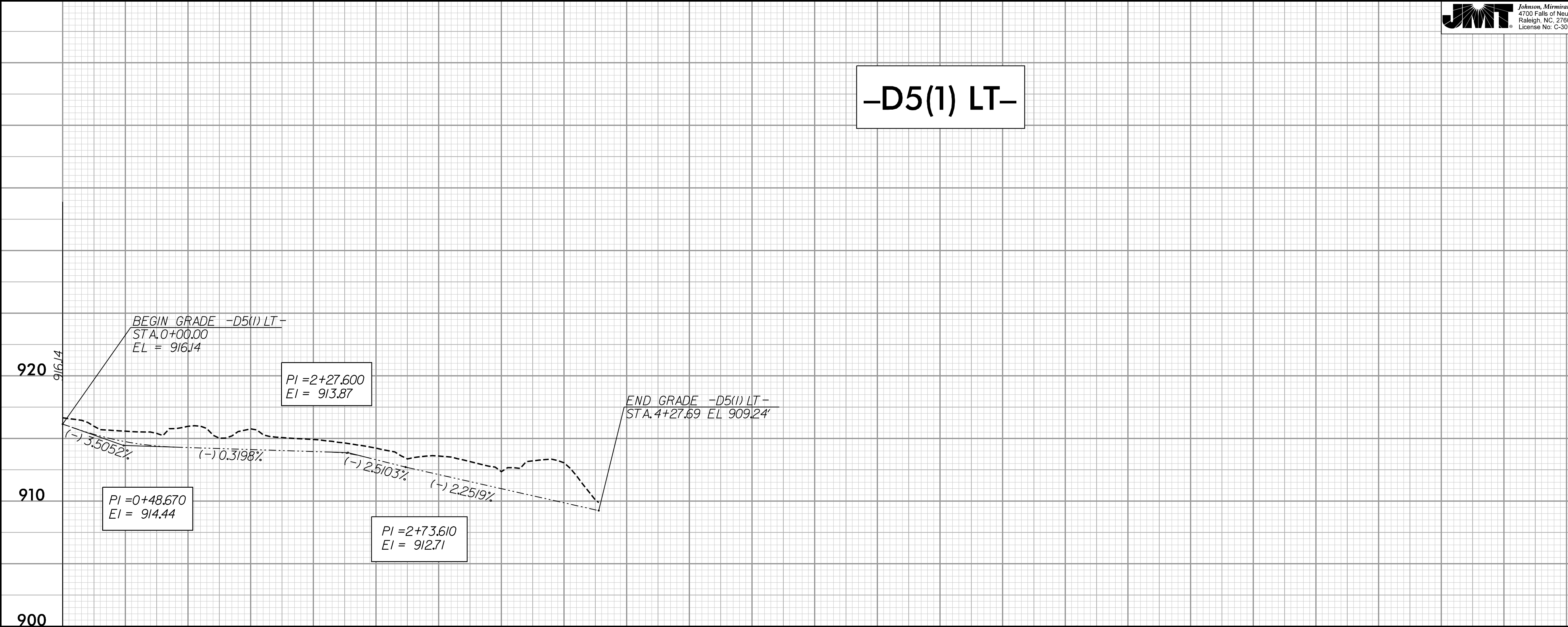
900

5/28/24

JMT

Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd. Suite 100,
Raleigh, NC 27609
License No: C-3097

PROJECT REFERENCE NO. 1-5880		SHEET NO. 17
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046062 CHARLES J. YOUNG 6/11/2025	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 046883 NATHAN B. CLARK 6/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



3/17/2025 2:03:51 PM
1-5880.dwg
m:\spec\landford

