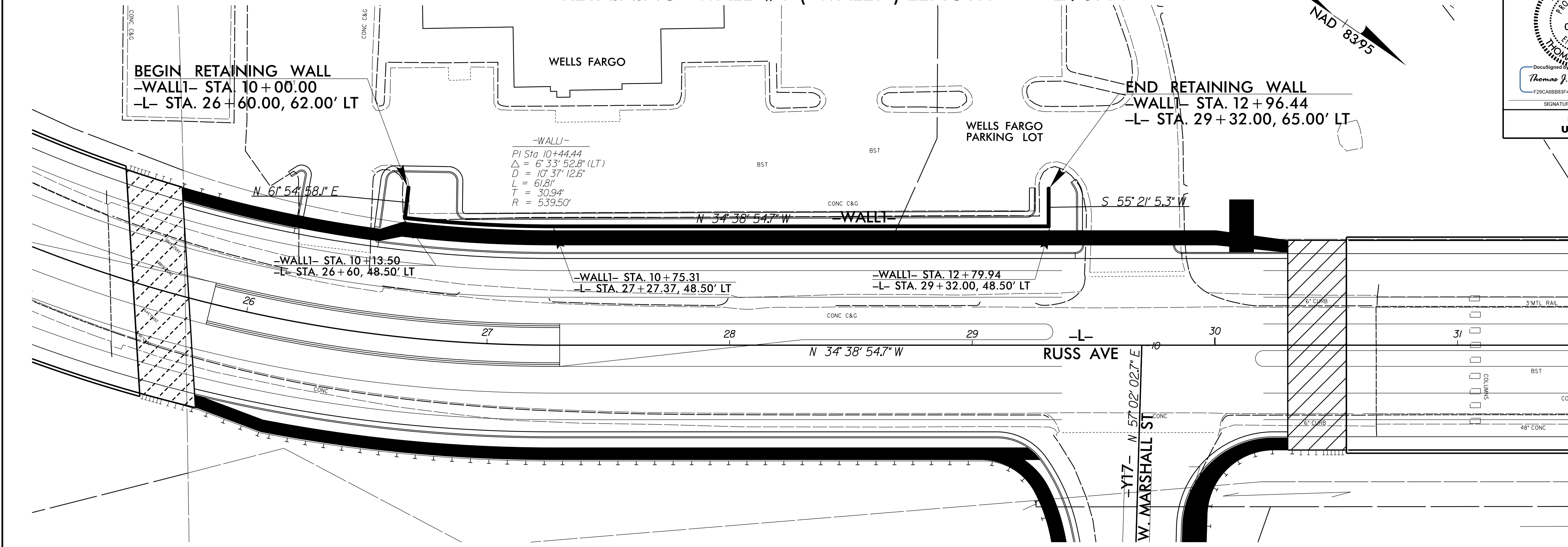


B.17/99

# PROPOSED RETAINING WALL #1

RETAINING WALL #1 (-WALL1-) LENGTH = 296.44'



GEOTECHNICAL ENGINEER

ENGINEER

SEAL 045672  
ENGINEER  
THOMAS J. DAILY

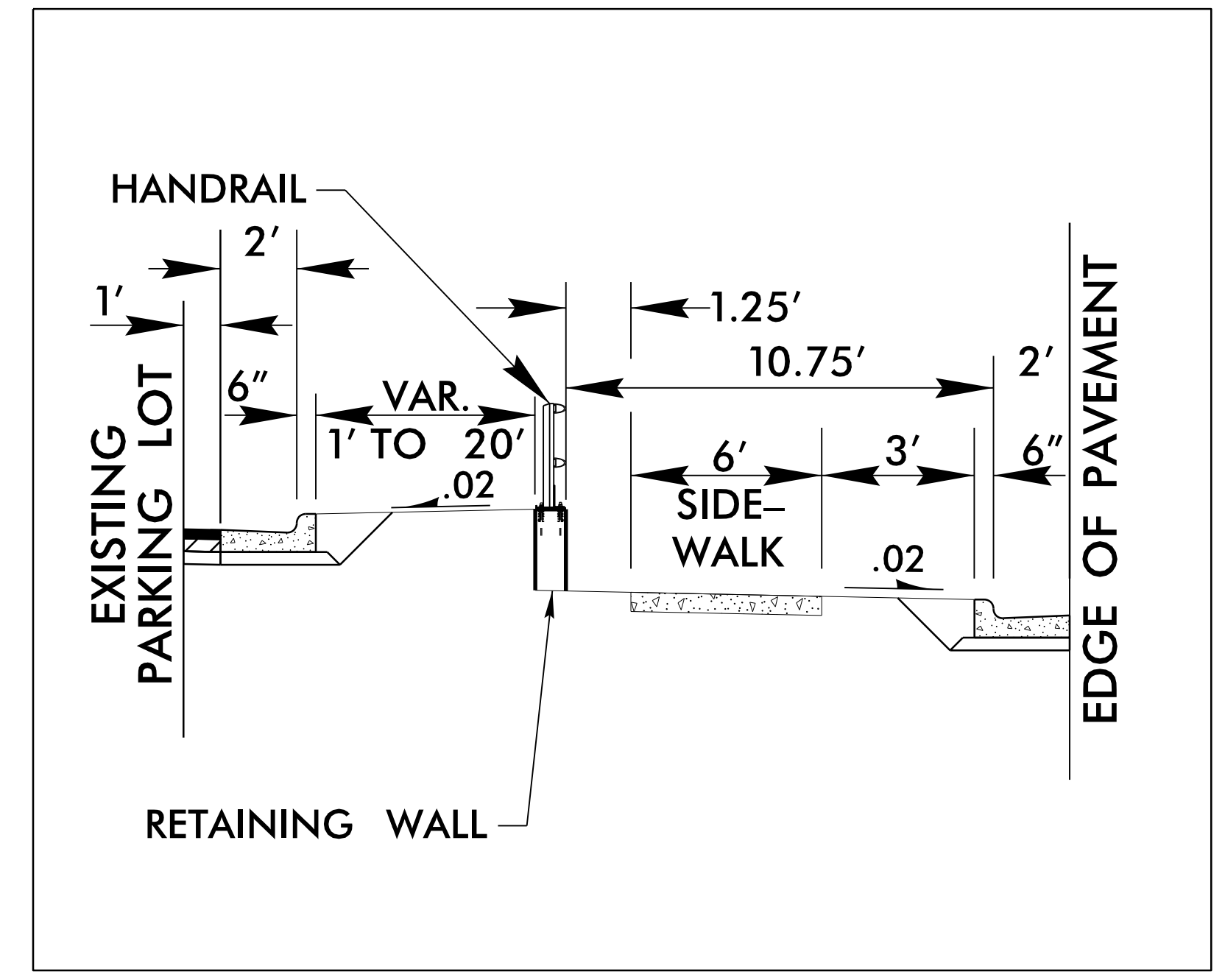
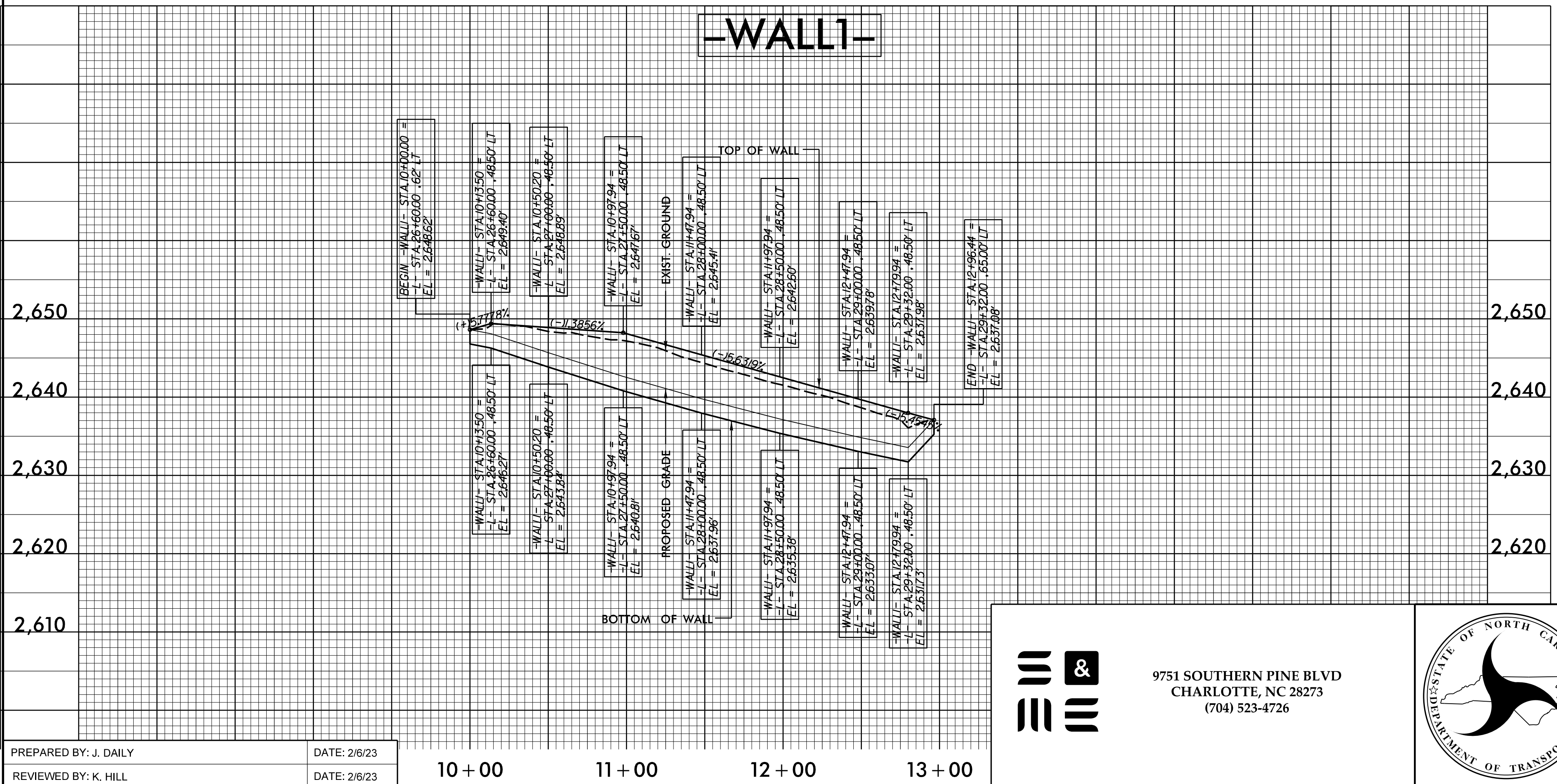
Thomas J. Daily  
F29CABBS3F448F 3/31/2023

SIGNATURE DATE SIGNATURE DATE

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



(ENGLISH)



PROJECT NO.: U-5839  
HAYWOOD COUNTY

751 SOUTHERN PINE BLVD  
CHARLOTTE, NC 28273  
(704) 523-4726

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**GEOTECHNICAL  
ENGINEERING UNIT**

RETAINING WALL NO. 1

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-1

PREPARED BY: J. DAILY  
DATE: 2/6/23

REVIEWED BY: K. HILL  
DATE: 2/6/23

B.17/99

# PROPOSED RETAINING WALL #2

RETAINING WALL #2 (-WALL2-) LENGTH = 88.56'

GEOTECHNICAL ENGINEER

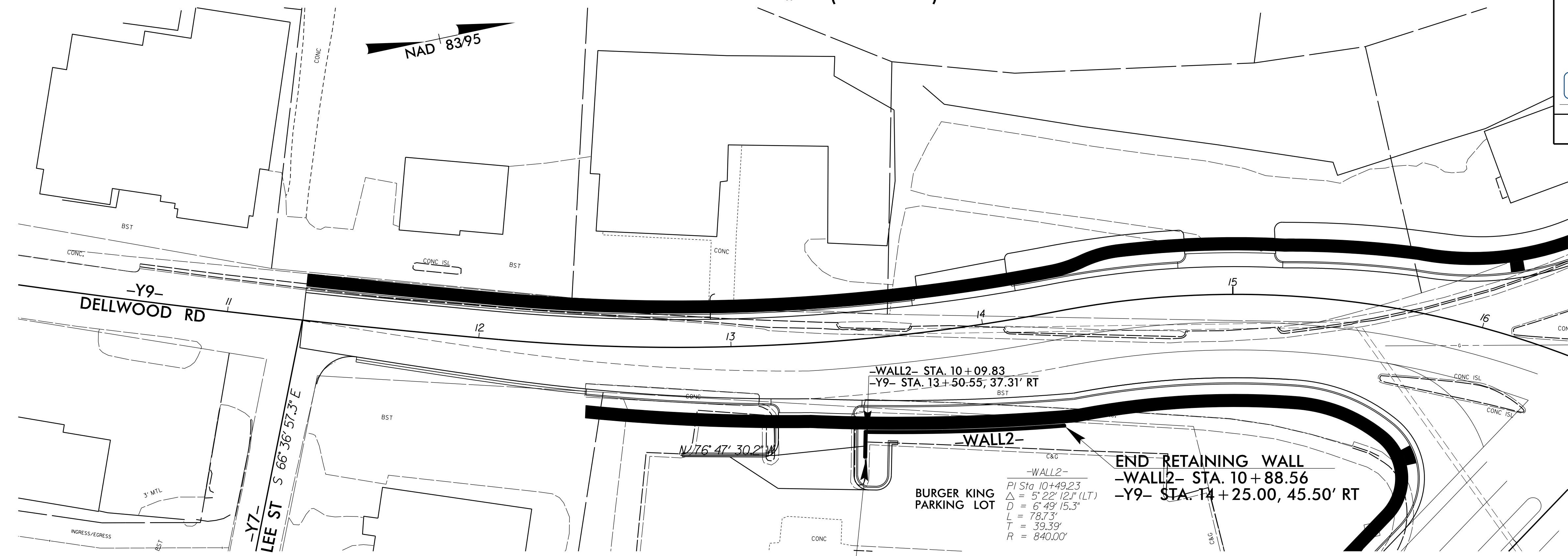
ENGINEER

Thomas J. Daily  
3/31/2023

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(ENGLISH)



BEGIN RETAINING WALL  
-WALL2- STA. 10+00.00  
-Y9- STA. 13+49.53, 47.09' RT

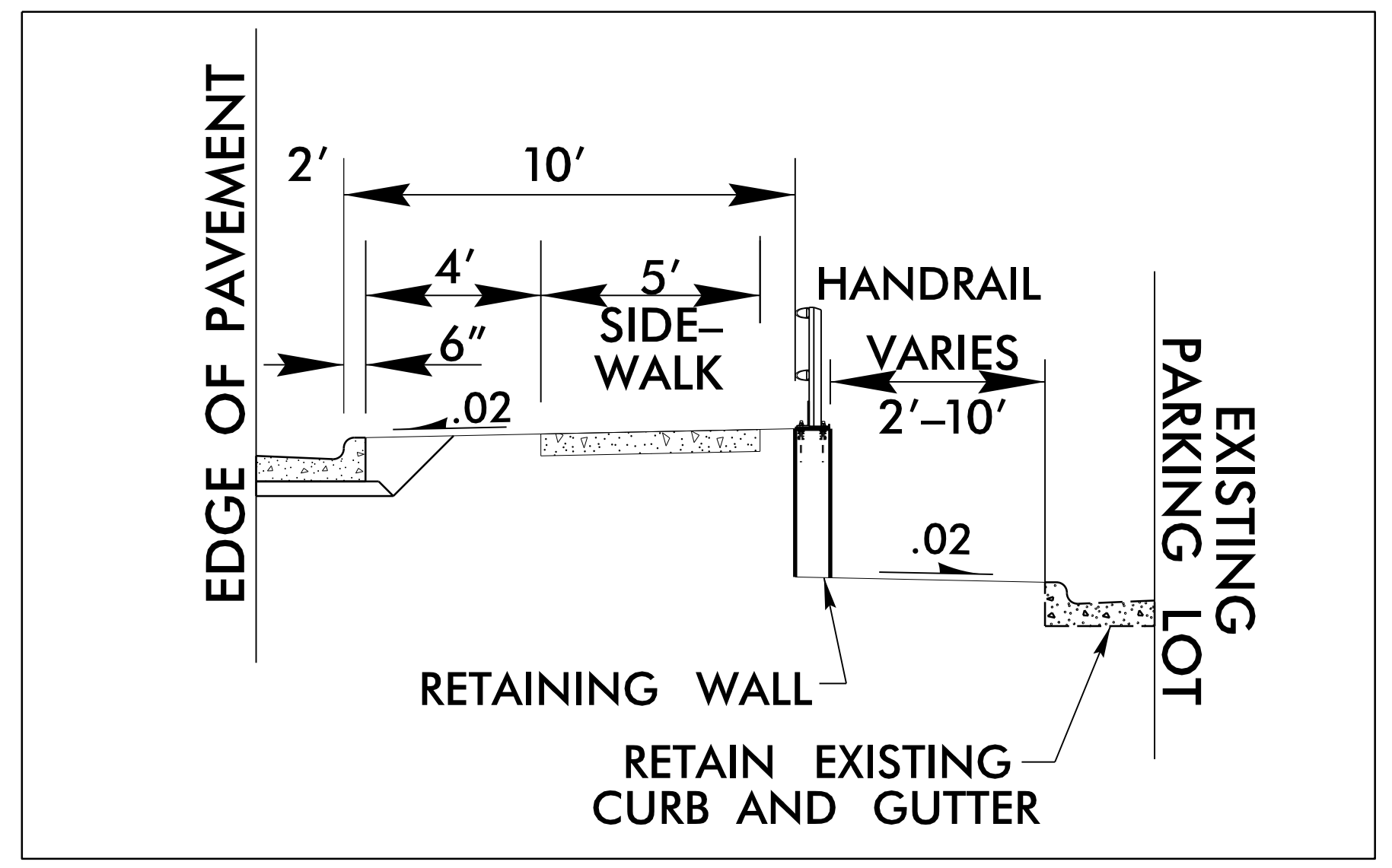
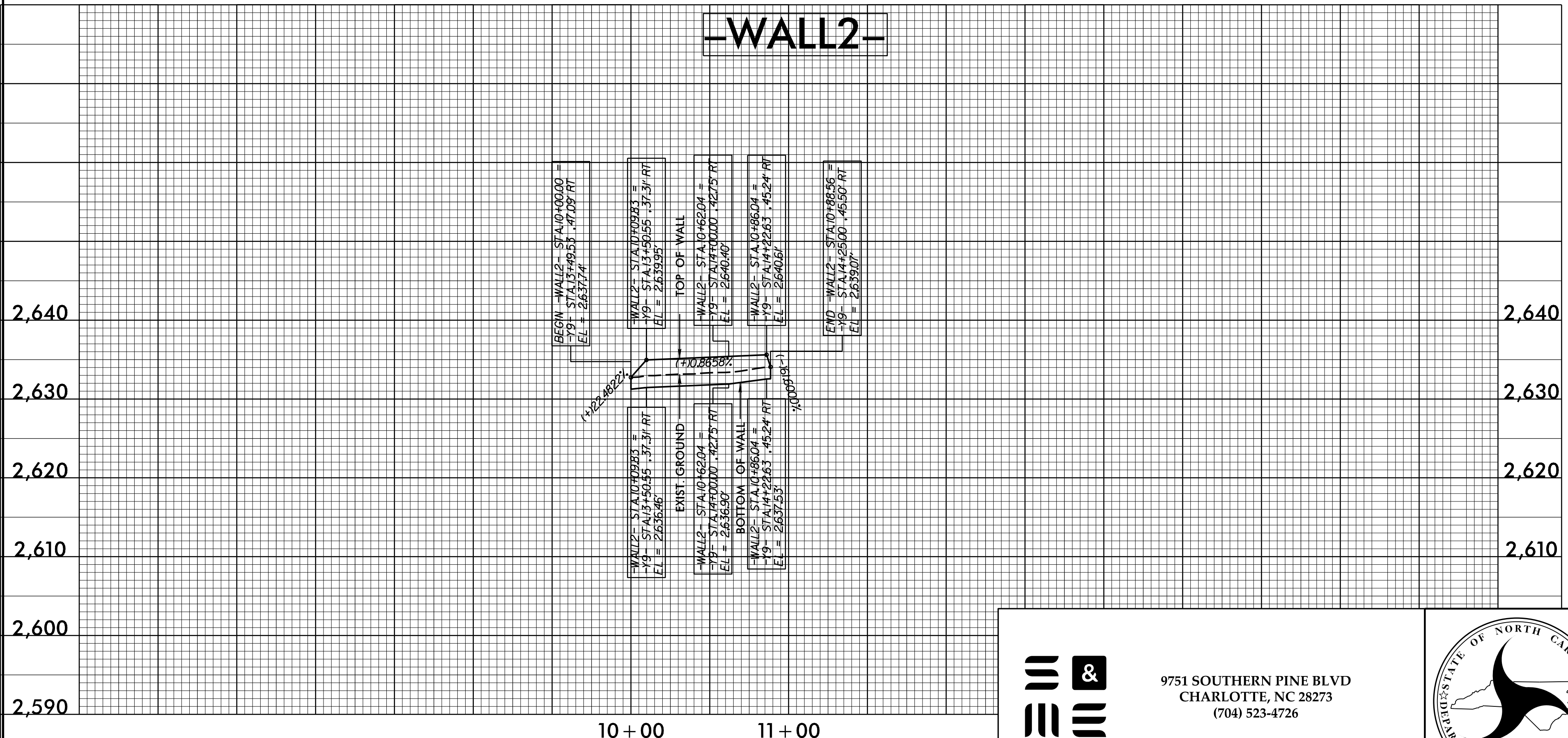
END RETAINING WALL  
-WALL2- STA. 10+88.56  
-Y9- STA. 14+25.00, 45.50' RT

BURGER KING PARKING LOT

-WALL2-  
PI Sta. 10+49.23  
 $\Delta = 5^{\circ}22'12''$  (LT)  
 $D = 6^{\circ}49'15.3''$   
 $L = 78.73'$   
 $T = 39.39'$   
 $R = 840.00'$

CONCRETE SIDEWALK / MEDIAN

NOTES:  
SEE SHEET 33 FOR -Y9- PROFILE  
SEE SHEET 19 FOR PLANS  
SEE SHEETS X-34 & X-35 FOR CROSS SECTIONS



PROJECT NO.: U-5839  
HAYWOOD COUNTY

## RETAINING WALL NO. 2

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-2

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DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

GEOTECHNICAL  
ENGINEERING UNIT

PREPARED BY: J. DAILY  
DATE: 2/6/23

REVIEWED BY: K. HILL  
DATE: 2/6/23

8/17/99

# PROPOSED RETAINING WALL #3

## RETAINING WALL #3 (-WALL3-) LENGTH = 100.16'

GEOTECHNICAL ENGINEER

ENGINEER

SEAL 045672

THOMAS J. DAILY

DecSigned by: Thomas J. Daily 3/31/2023

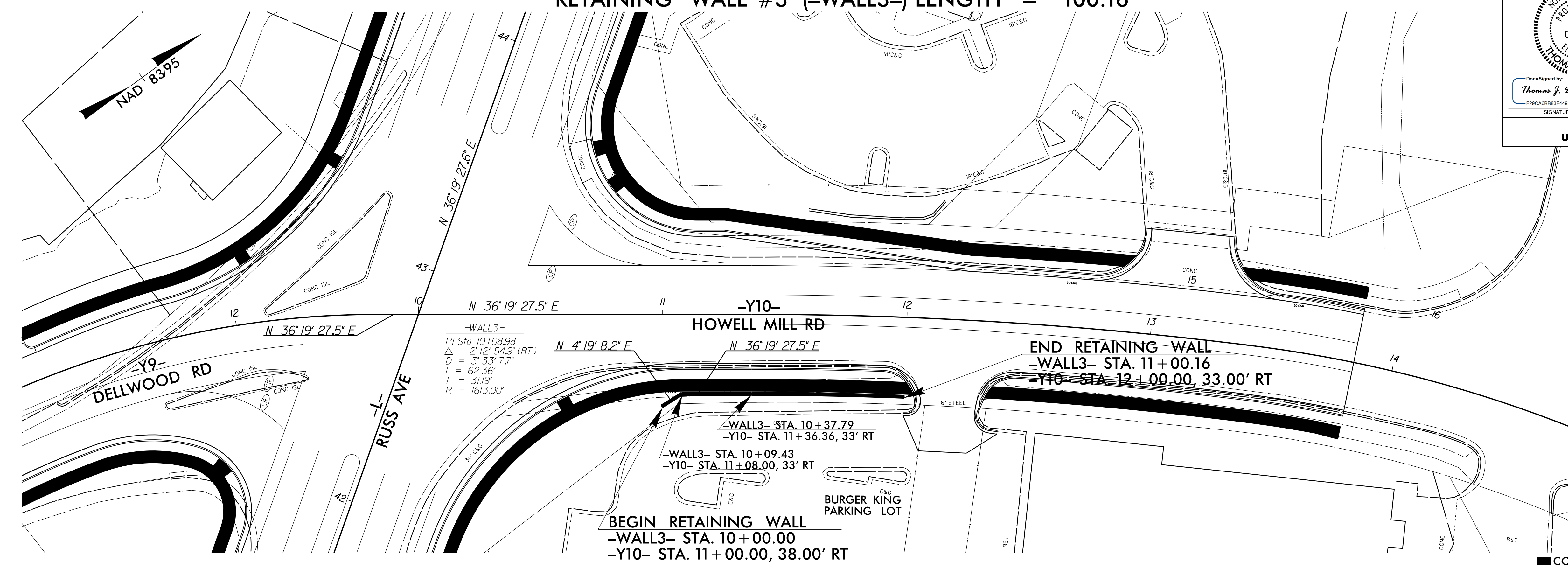
DATE: 3/31/2023

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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

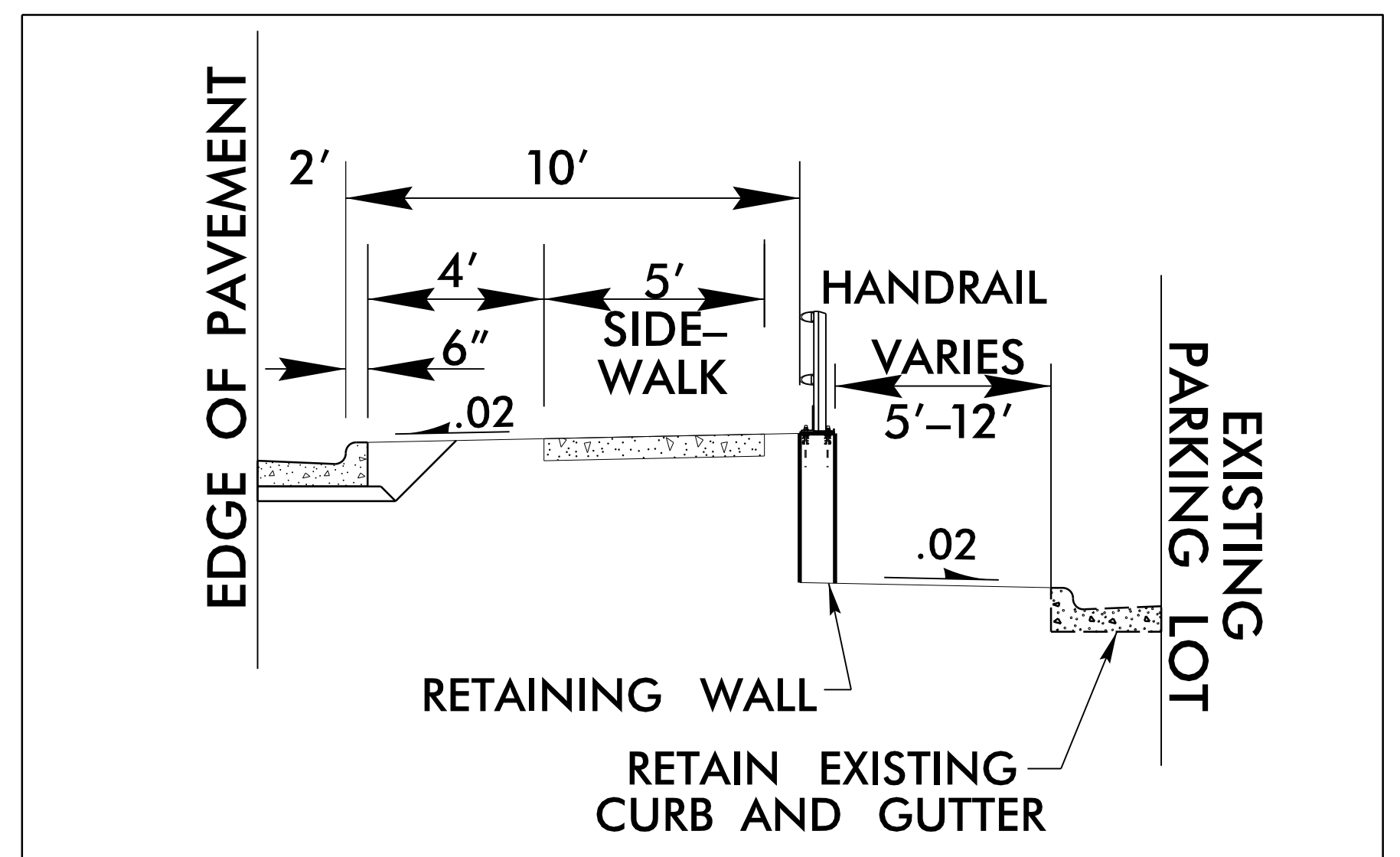
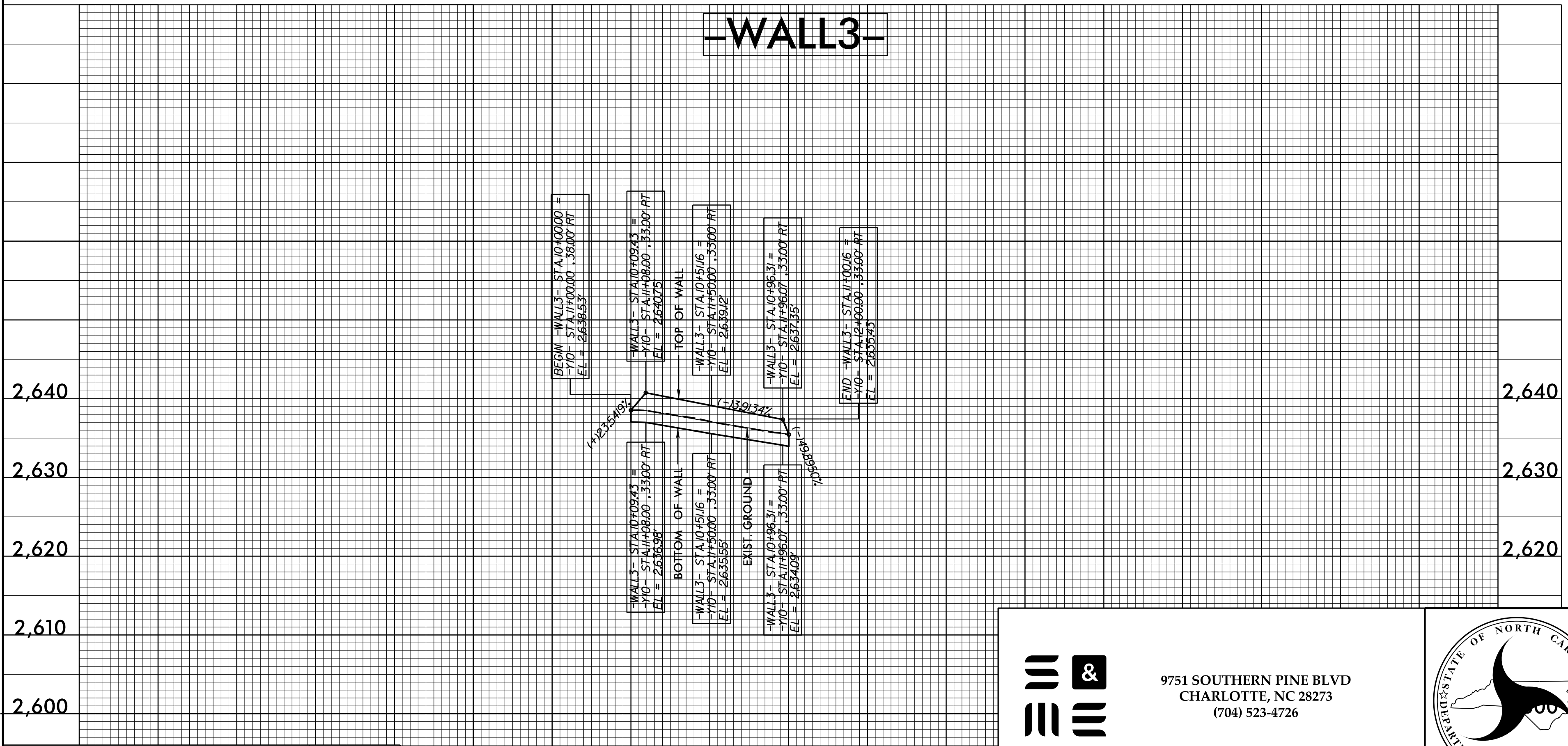


(ENGLISH)



CONCRETE SIDEWALK /MEDIAN

NOTES:  
SEE SHEET 34 FOR -Y10- PROFILE  
SEE SHEETS 10 AND 20 FOR PLANS  
SEE SHEET X-37 FOR CROSS SECTIONS



PROJECT NO.: U-5839

HAYWOOD COUNTY

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**GEOTECHNICAL ENGINEERING UNIT**

RETAINING WALL NO. 3

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-3

SYTIME

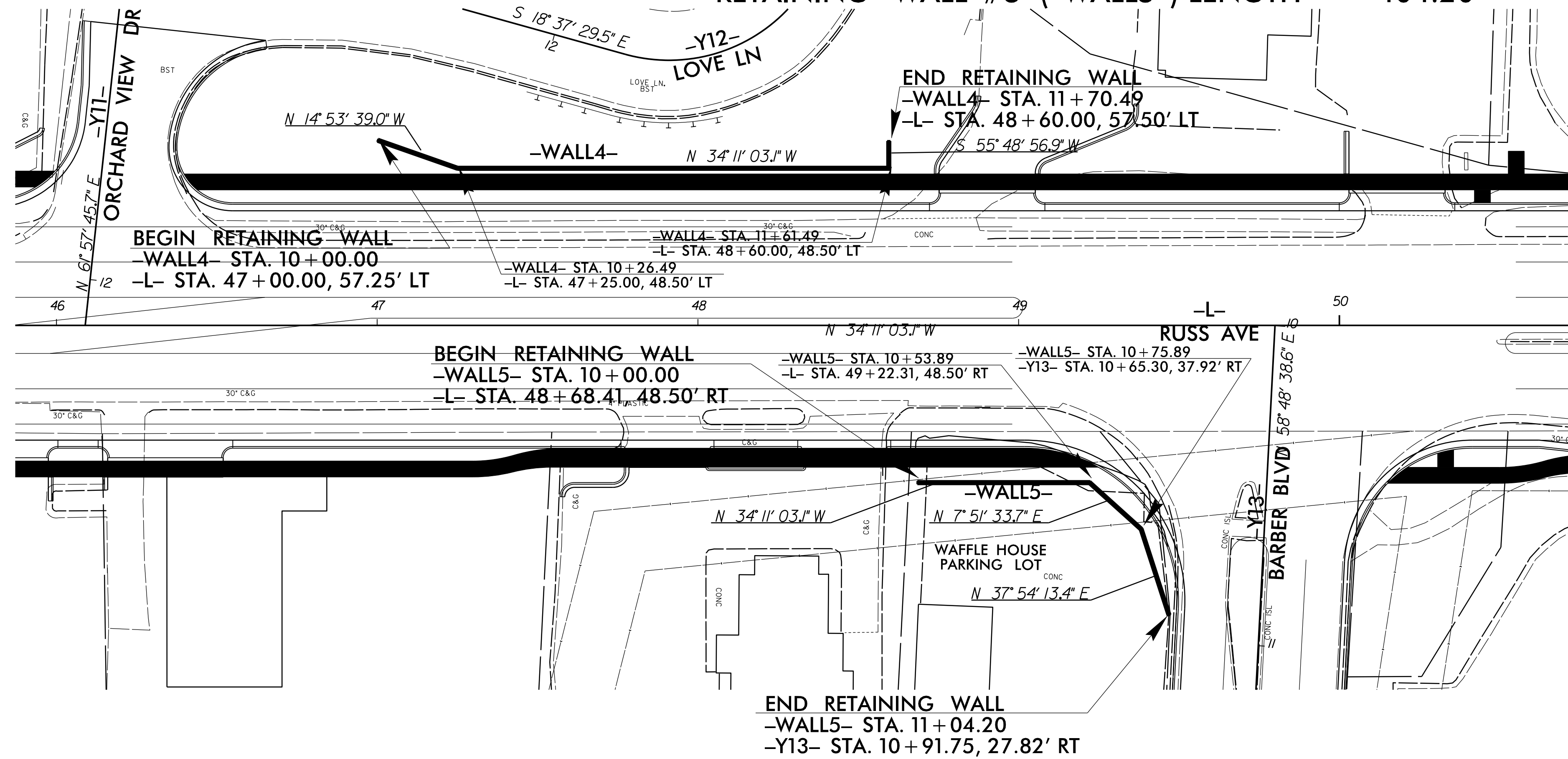
PREPARED BY: J. DAILY DATE: 2/6/23

REVIEWED BY: K. HILL DATE: 2/6/23

B.17/99

# PROPOSED RETAINING WALL #4 AND WALL #5

RETAINING WALL #4 (-WALL4-) LENGTH = 170.49'  
 RETAINING WALL #5 (-WALL5-) LENGTH = 104.20'



GEOTECHNICAL ENGINEER

ENGINEER

PROFESSIONAL SEAL 045672 ENGINEER THOMAS J. DAILY

DocuSigned by: Thomas J. Daily 3/31/2023

SIGNATURE DATE SIGNATURE DATE

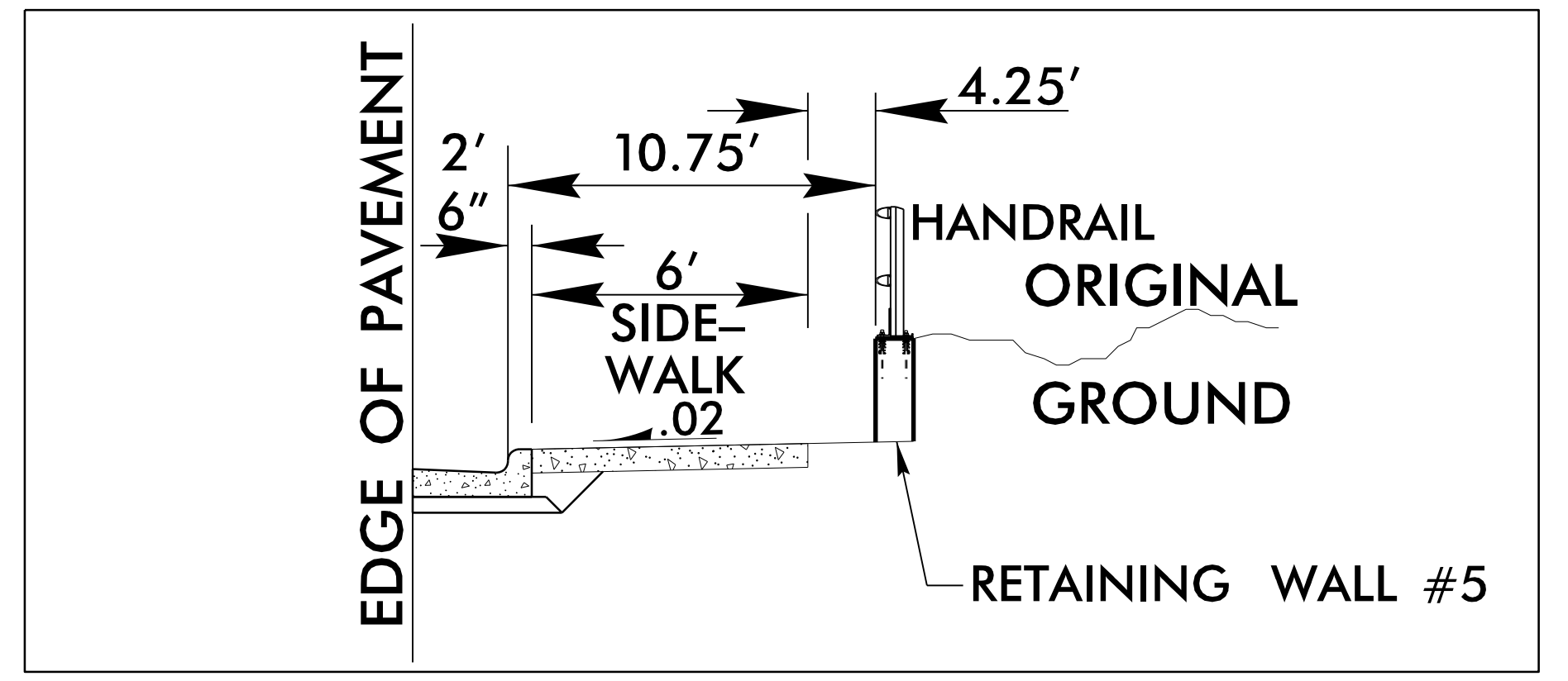
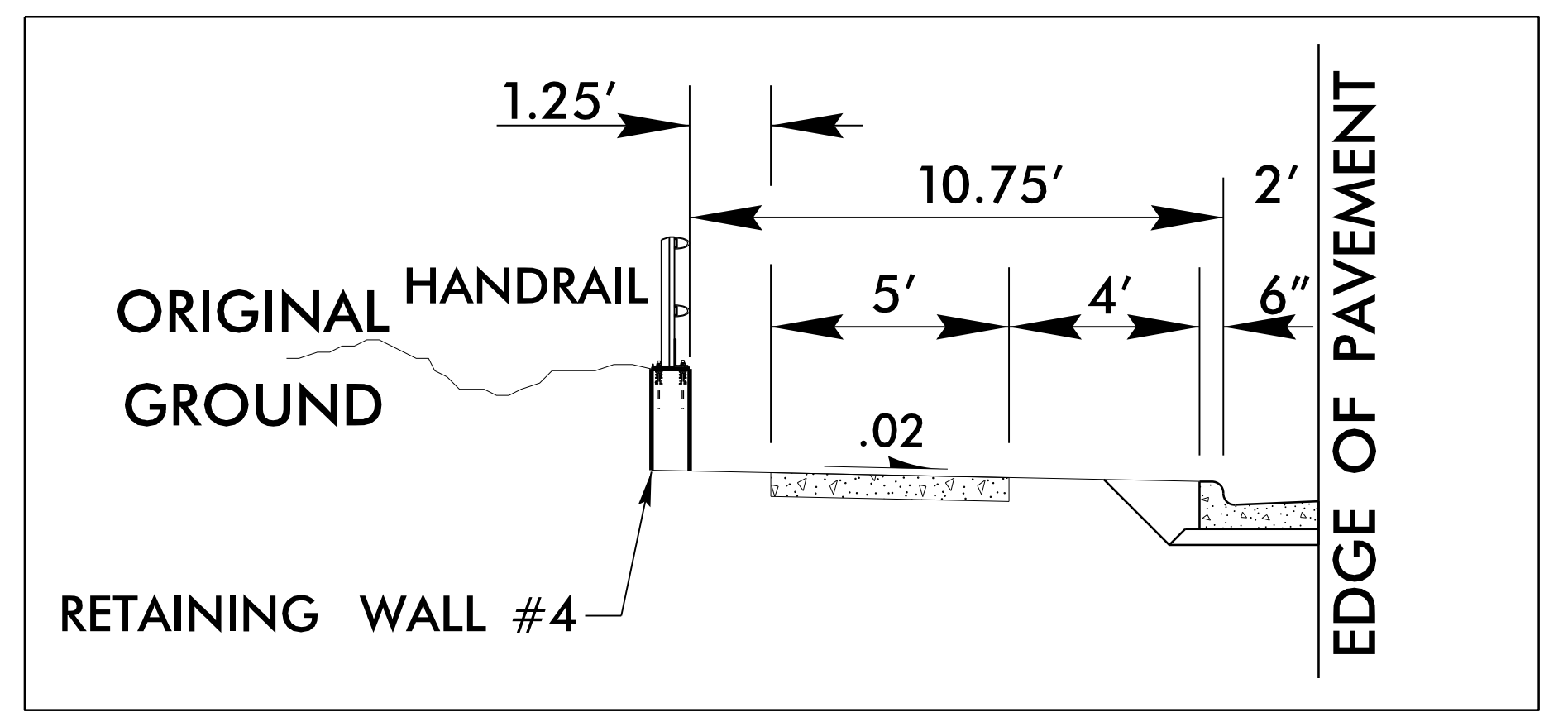
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



(ENGLISH)

CONCRETE SIDEWALK /MEDIAN

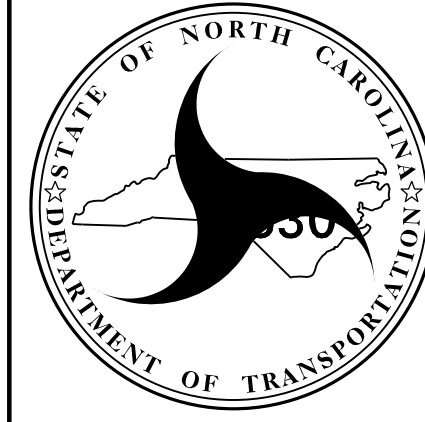
NOTES:  
 SEE SHEET 28 FOR -L- PROFILE  
 SEE SHEET 34 FOR -Y13- PROFILE  
 SEE SHEET 11 FOR PLANS  
 SEE SHEETS X-14 & X-15 FOR CROSS SECTIONS  
 SEE SHEET 2C-8 FOR HAND RAIL DETAILS



PROJECT NO.: U-5839  
 HAYWOOD COUNTY

-WALL4-		-WALL5-	
2,690	2,690	2,690	2,690
2,680	2,680	2,680	2,680
2,670	2,670	2,670	2,670
2,660	2,660	2,660	2,660
2,650	2,650	2,650	2,650
2,640	2,640	2,640	2,640
2,630	2,630	2,630	2,630

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
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 GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 4  
 RETAINING WALL NO. 5

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

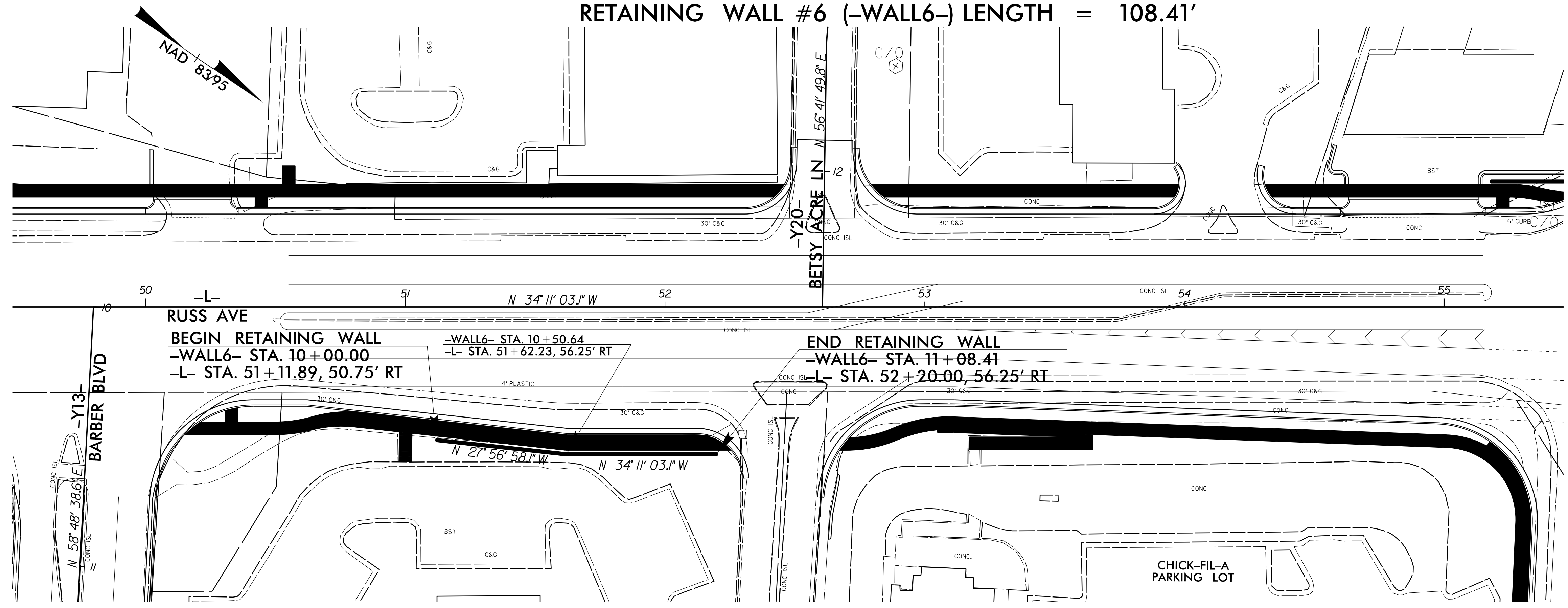
SHEET NO. W-4

PREPARED BY: J. DAILY DATE: 2/6/23  
 REVIEWED BY: K. HILL DATE: 2/6/23

B.17/199

# PROPOSED RETAINING WALL #6

RETAINING WALL #6 (-WALL6-) LENGTH = 108.41'



GEOTECHNICAL ENGINEER

ENGINEER

SEAL 045672

THOMAS J. DAILY

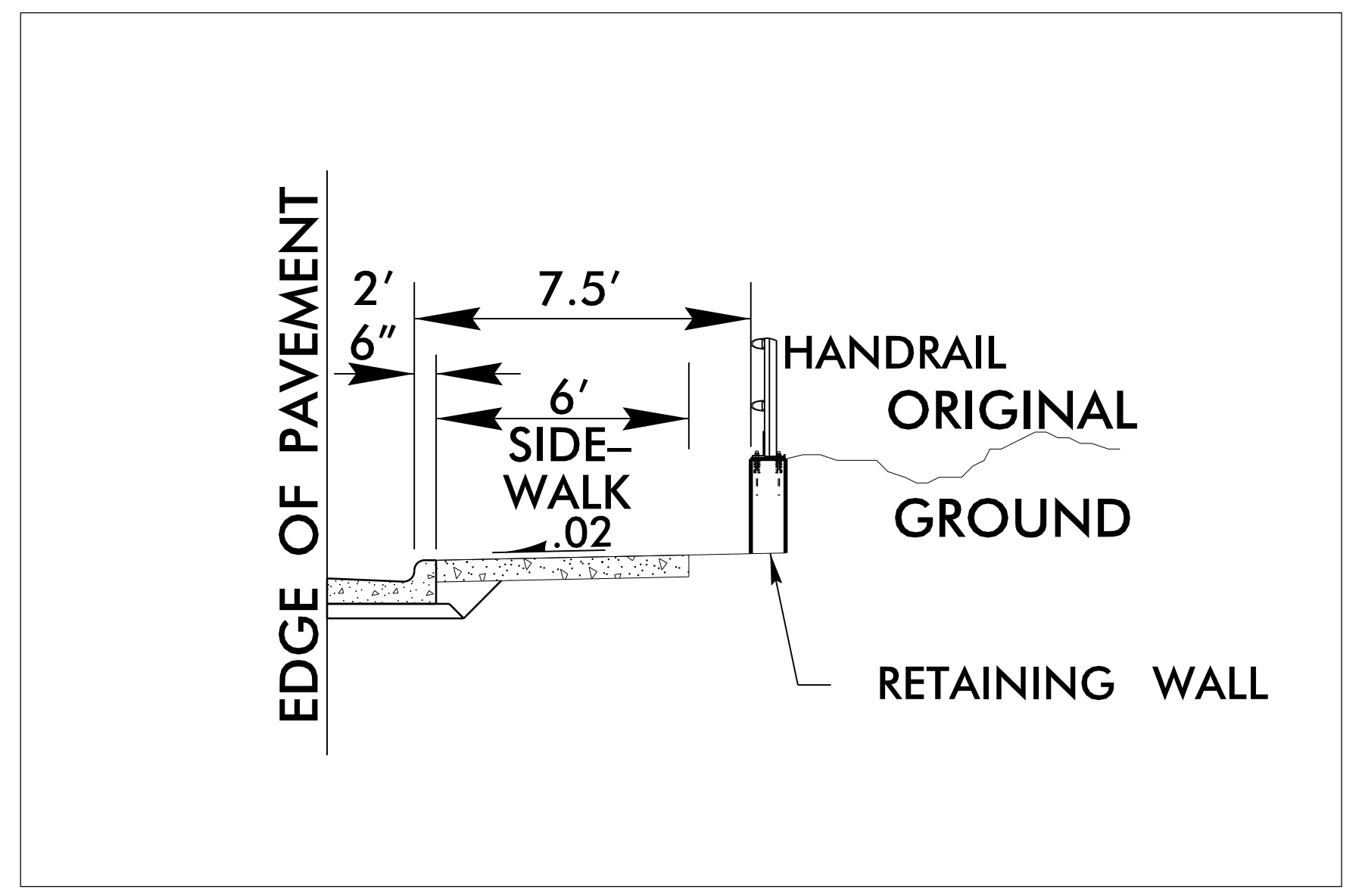
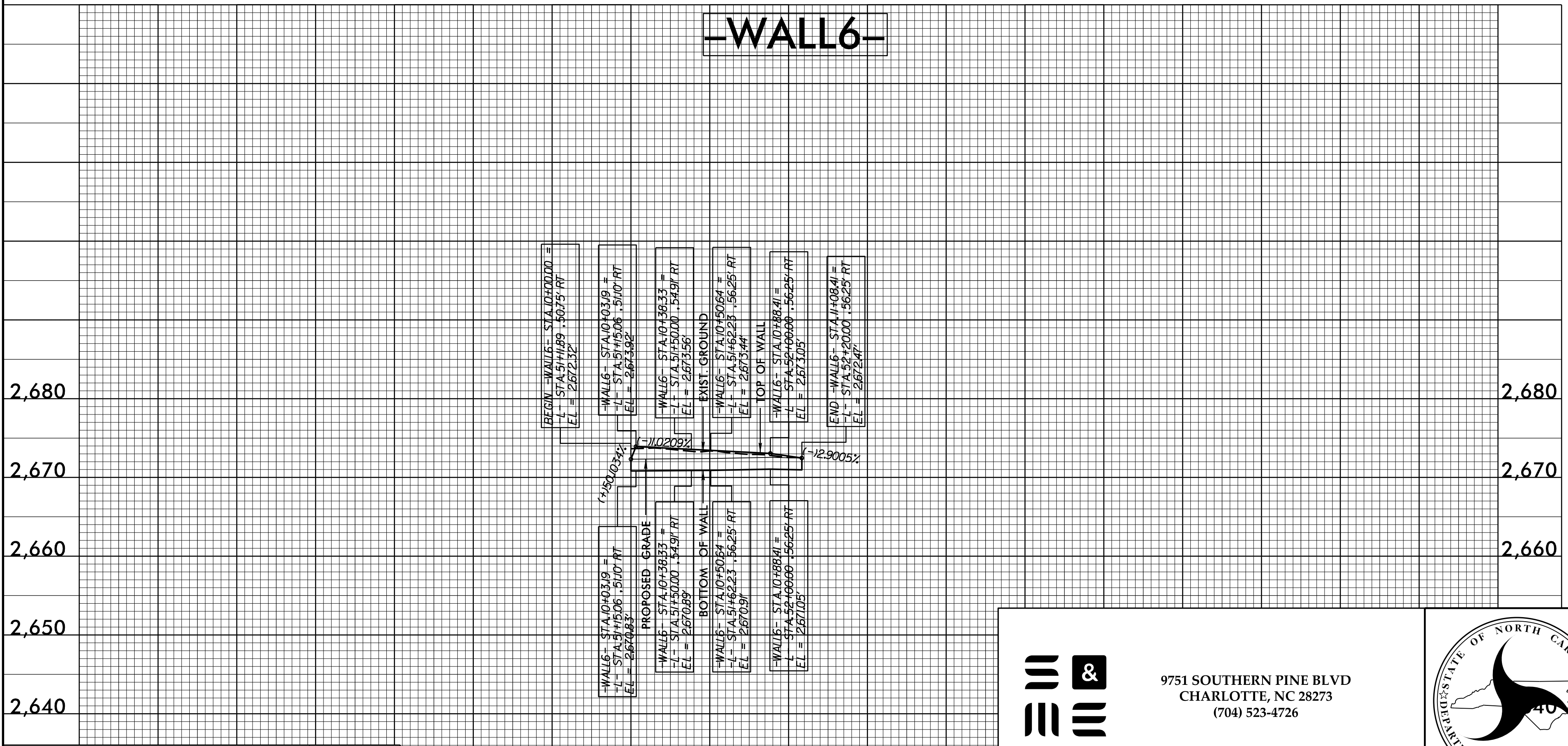
DocuSigned by: Thomas J. Daily 3/31/2023

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(ENGLISH)

- CONCRETE SIDEWALK / MEDIAN
- NOTES: SEE SHEET 29 FOR -L- PROFILE SEE SHEETS 11 AND 12 FOR PLANS SEE SHEET X-16 FOR CROSS SECTIONS



PROJECT NO.: U-5839

HAYWOOD COUNTY

## RETAINING WALL NO. 6

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-5

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DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

GEOTECHNICAL  
ENGINEERING UNIT

PREPARED BY: J. DAILY DATE: 2/6/23

REVIEWED BY: K. HILL DATE: 2/6/23

10 + 00 11 + 00

B.17/99

# PROPOSED RETAINING WALL #7

RETAINING WALL #7 (-WALL7-) LENGTH = 147.47'

GEOTECHNICAL ENGINEER ENGINEER

SEAL 045672  
ENGINEER  
THOMAS J. DAILY

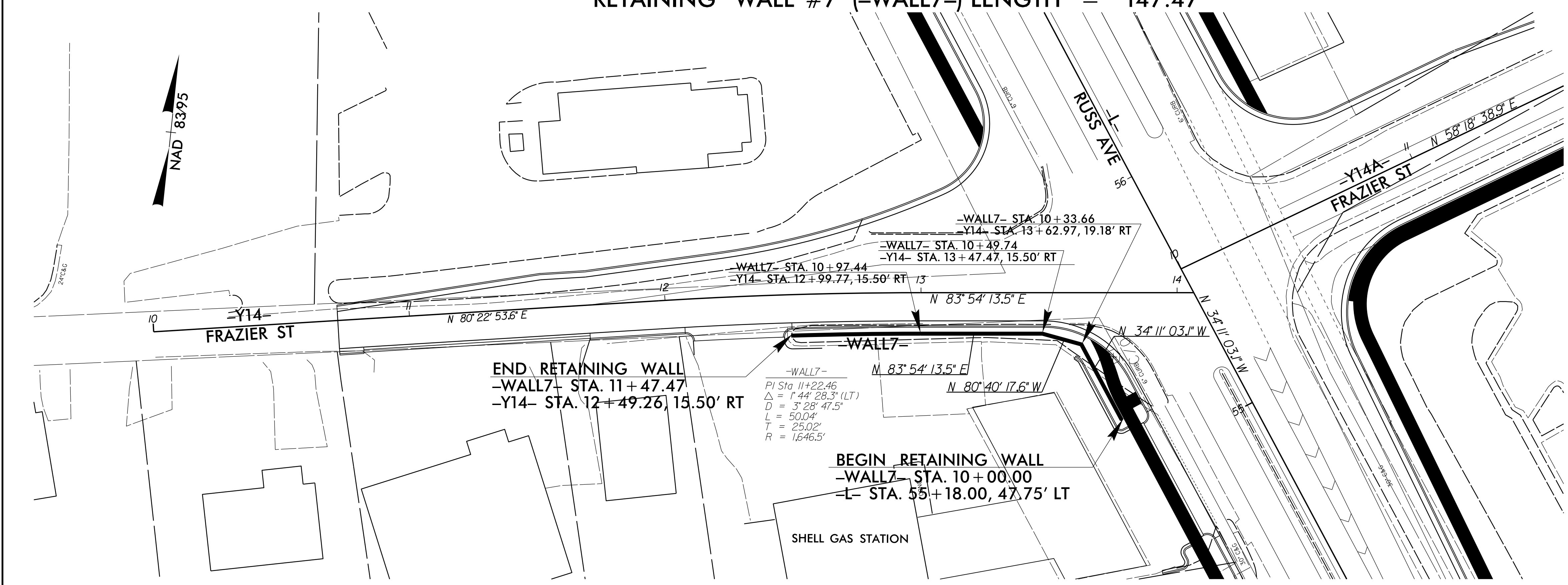
DocuSign  
Thomas J. Daily  
3/31/2023

SIGNATURE DATE SIGNATURE DATE

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UNLESS ALL SIGNATURES COMPLETED**

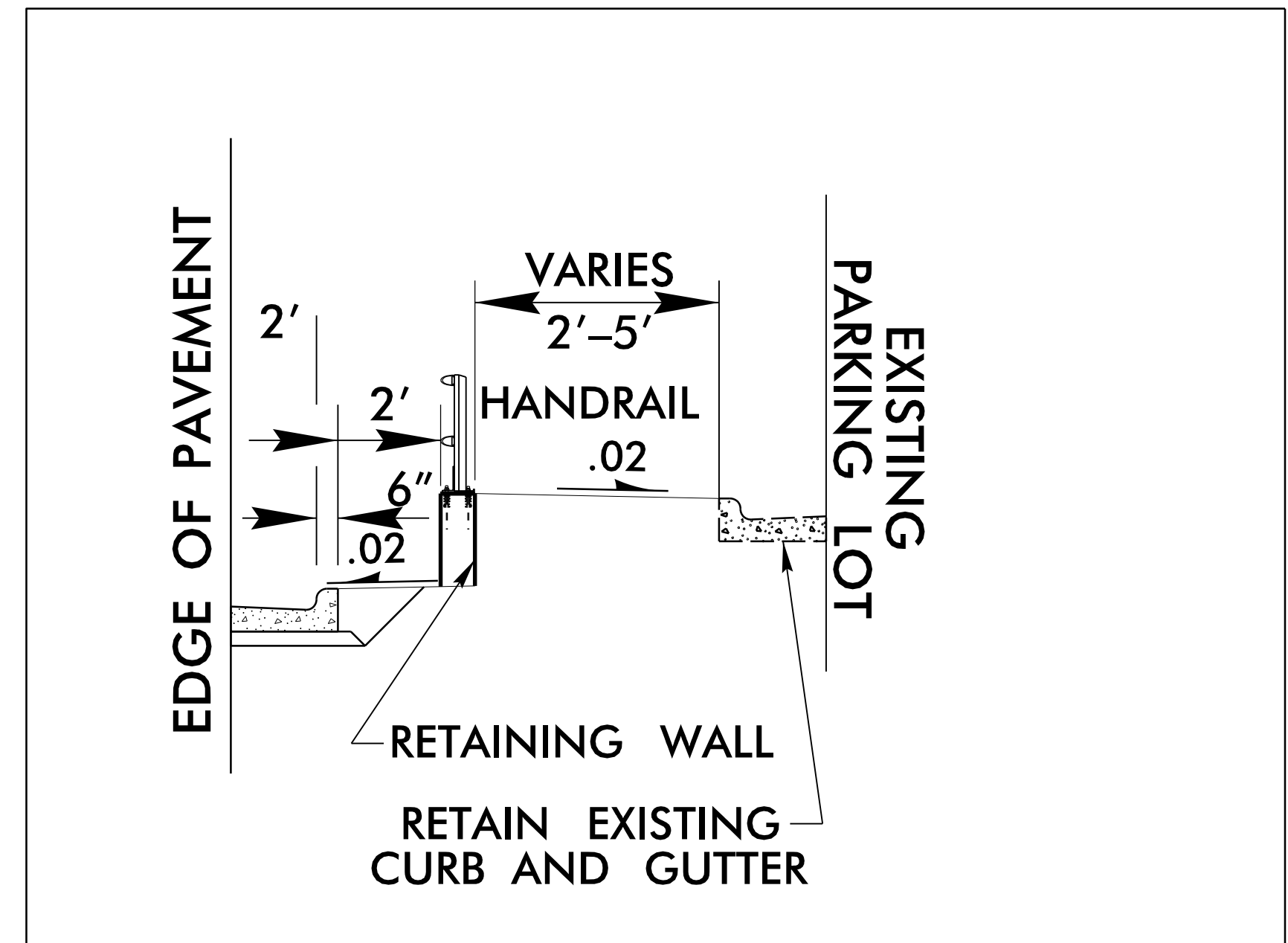
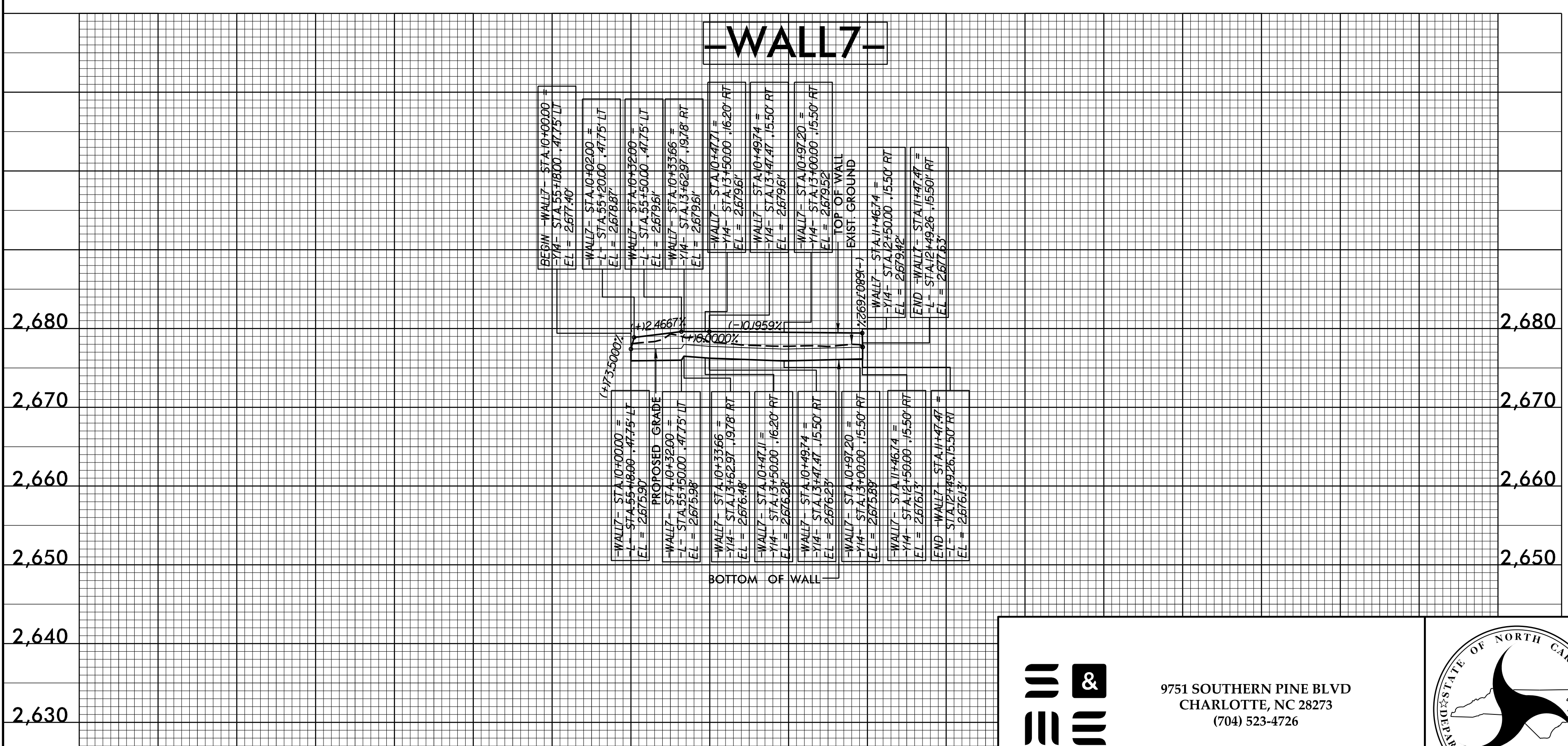


(ENGLISH)



■ CONCRETE SIDEWALK /MEDIAN

NOTES:  
SEE SHEET 35 FOR -Y14- PROFILE  
SEE SHEETS 12 AND 22 FOR PLANS  
SEE SHEETS X-41 & X-42 FOR CROSS SECTIONS



PROJECT NO.: U-5839  
HAYWOOD COUNTY

## RETAINING WALL NO. 7

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-6

PREPARED BY: J. DAILY DATE: 2/6/23  
REVIEWED BY: K. HILL DATE: 2/6/23

10 + 00 11 + 00

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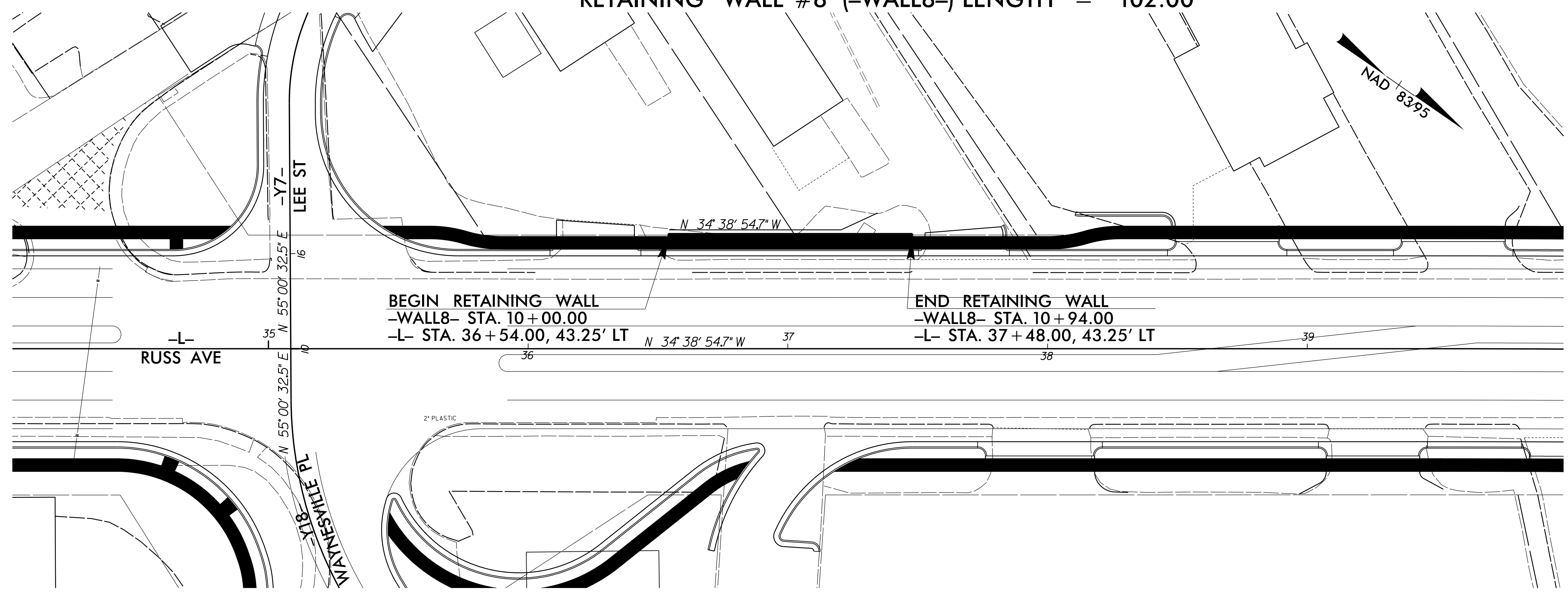
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**GEOTECHNICAL  
ENGINEERING UNIT**

8/17/99

# PROPOSED RETAINING WALL #8

## RETAINING WALL #8 (-WALL8-) LENGTH = 102.00'



GEOTECHNICAL ENGINEER

DocuSigned by:  
*Thomas J. Daily*  
F29CA58B33-449F... 3/31/2023

SIGNATURE DATE

ENGINEER

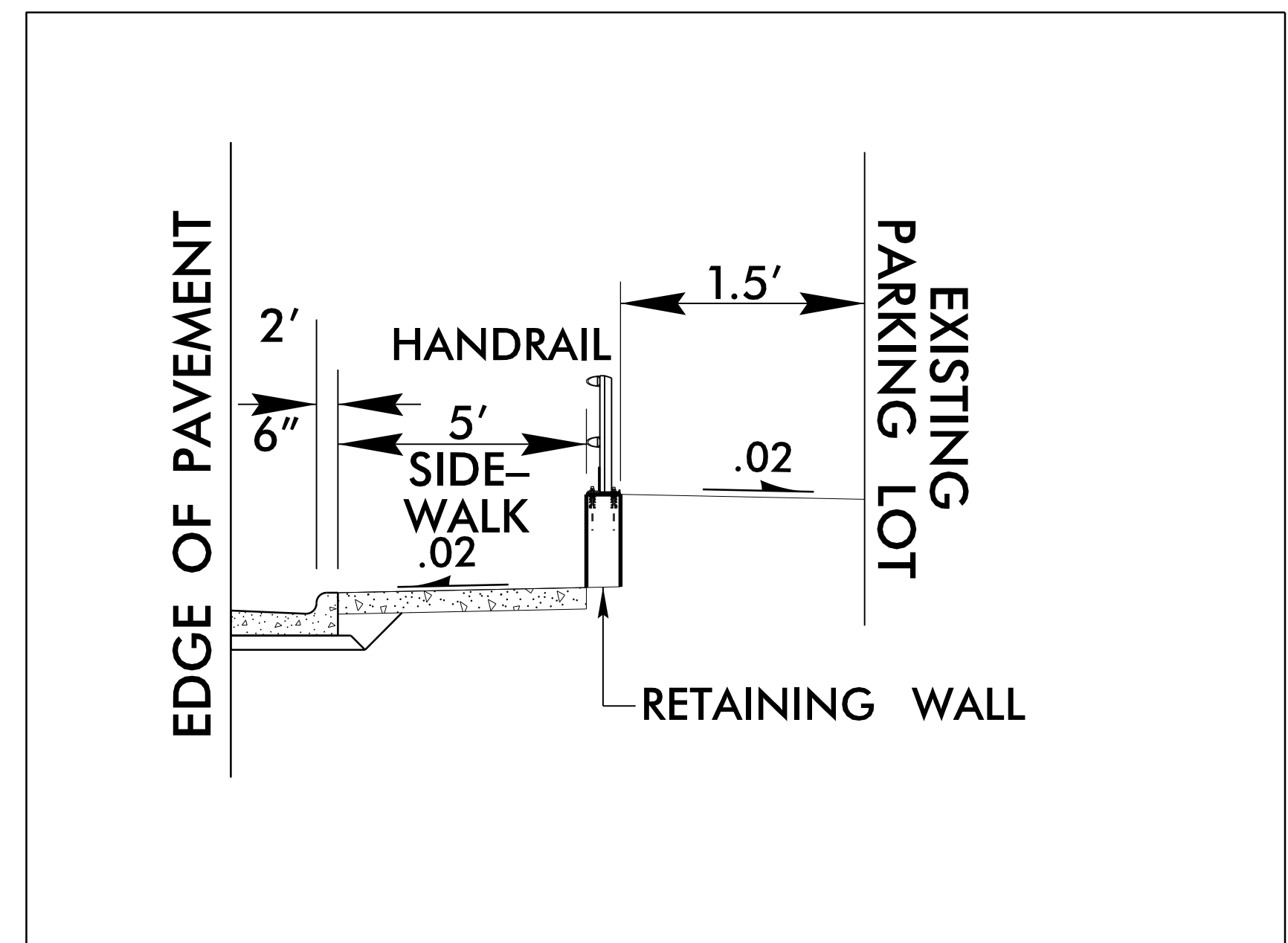
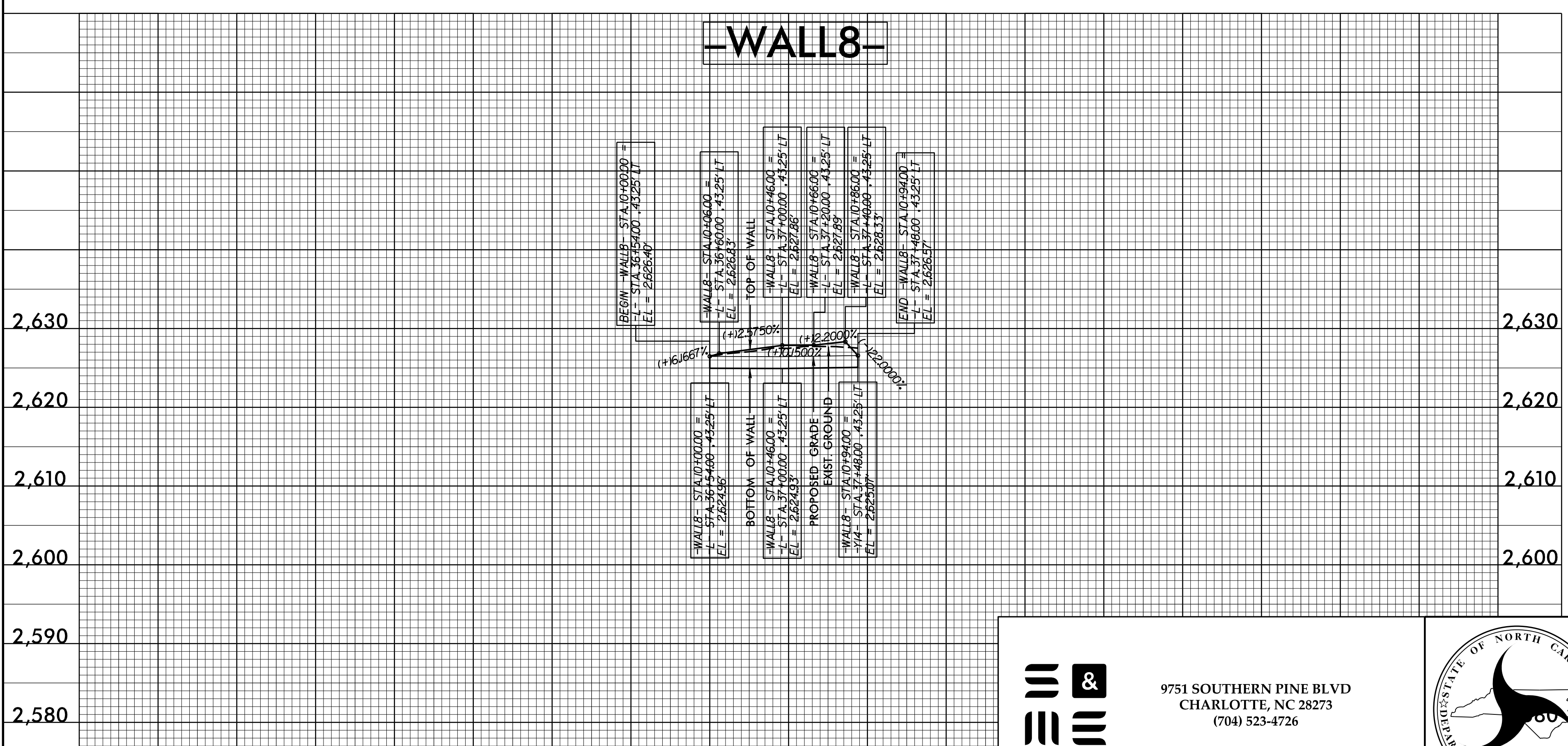
SIGNATURE DATE

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(ENGLISH)

- CONCRETE SIDEWALK / MEDIAN
- NOTES:
- SEE SHEET 27 FOR -L- PROFILE
- SEE SHEET 9 FOR PLANS
- SEE SHEET X-10 FOR CROSS SECTIONS



PROJECT NO.: U-5839  
HAYWOOD COUNTY

### RETAINING WALL NO. 8

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-7

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(704) 523-4726

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

GEOTECHNICAL  
ENGINEERING UNIT

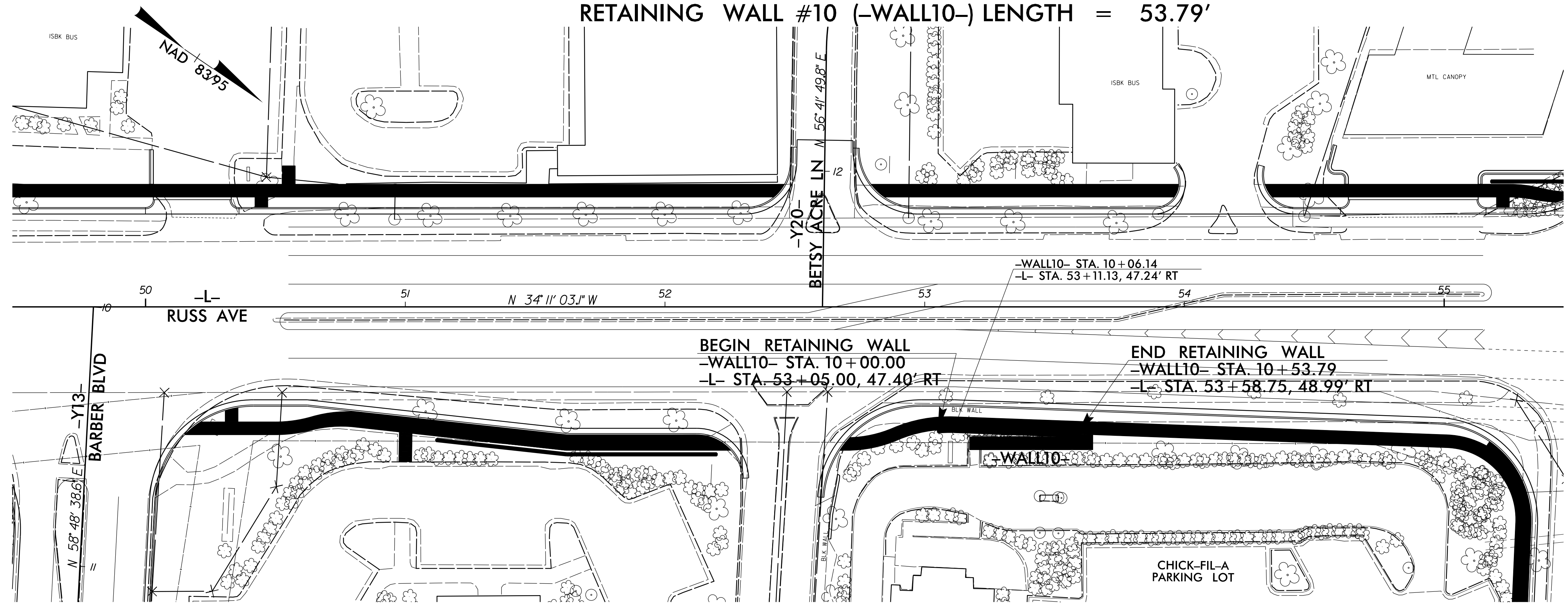
PREPARED BY: J. DAILY      DATE: 2/6/23  
REVIEWED BY: K. HILL      DATE: 2/6/23

10 + 00      11 + 00

B.17/99

# PROPOSED RETAINING WALL #10

RETAINING WALL #10 (-WALL10-) LENGTH = 53.79'



GEOTECHNICAL ENGINEER  
ENGINEER

SEAL  
045672  
ENGINEER  
THOMAS J. DAILY

Thomas J. Daily  
F29CMBBSF448F  
3/31/2023

SIGNATURE DATE SIGNATURE DATE

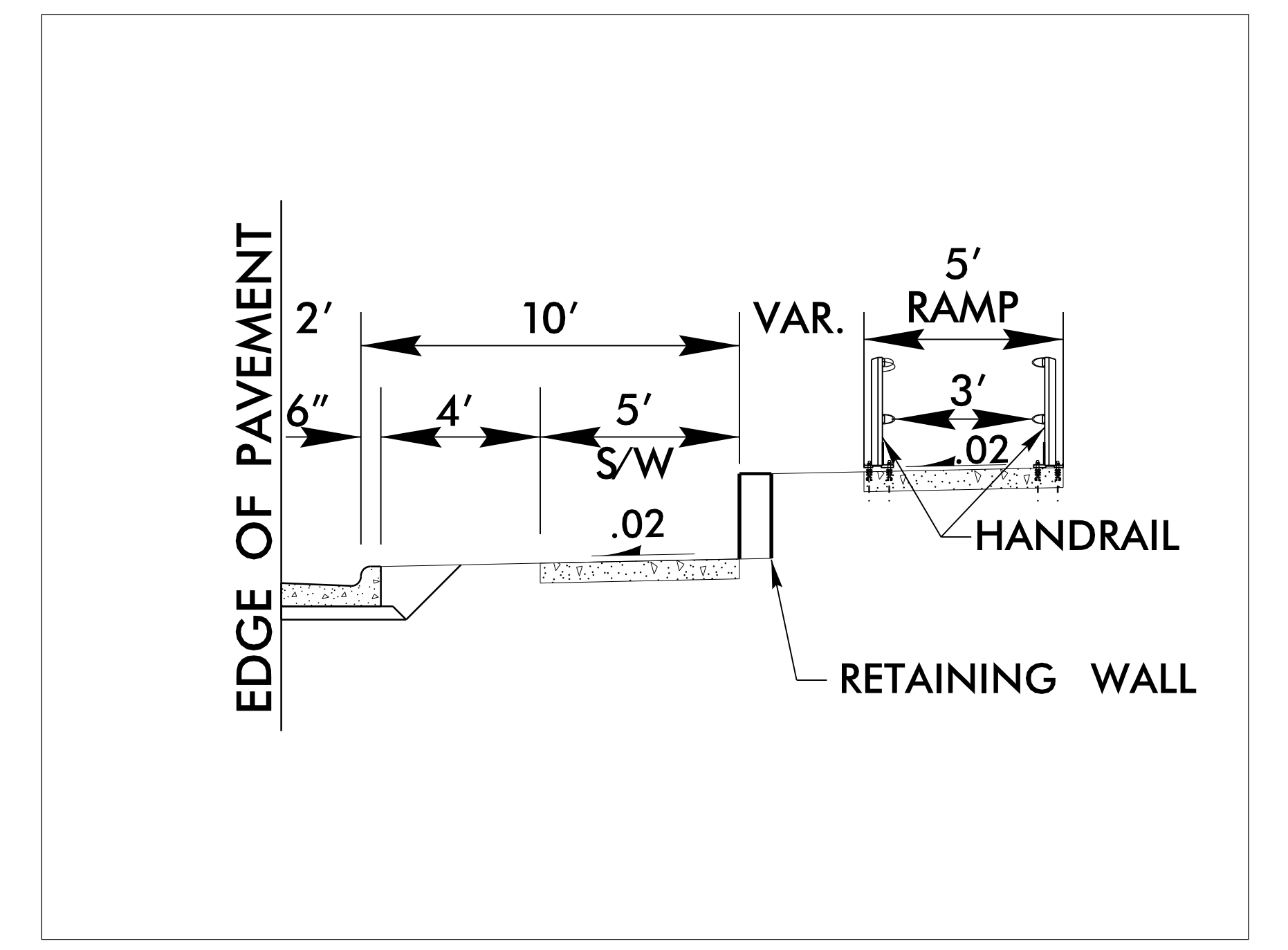
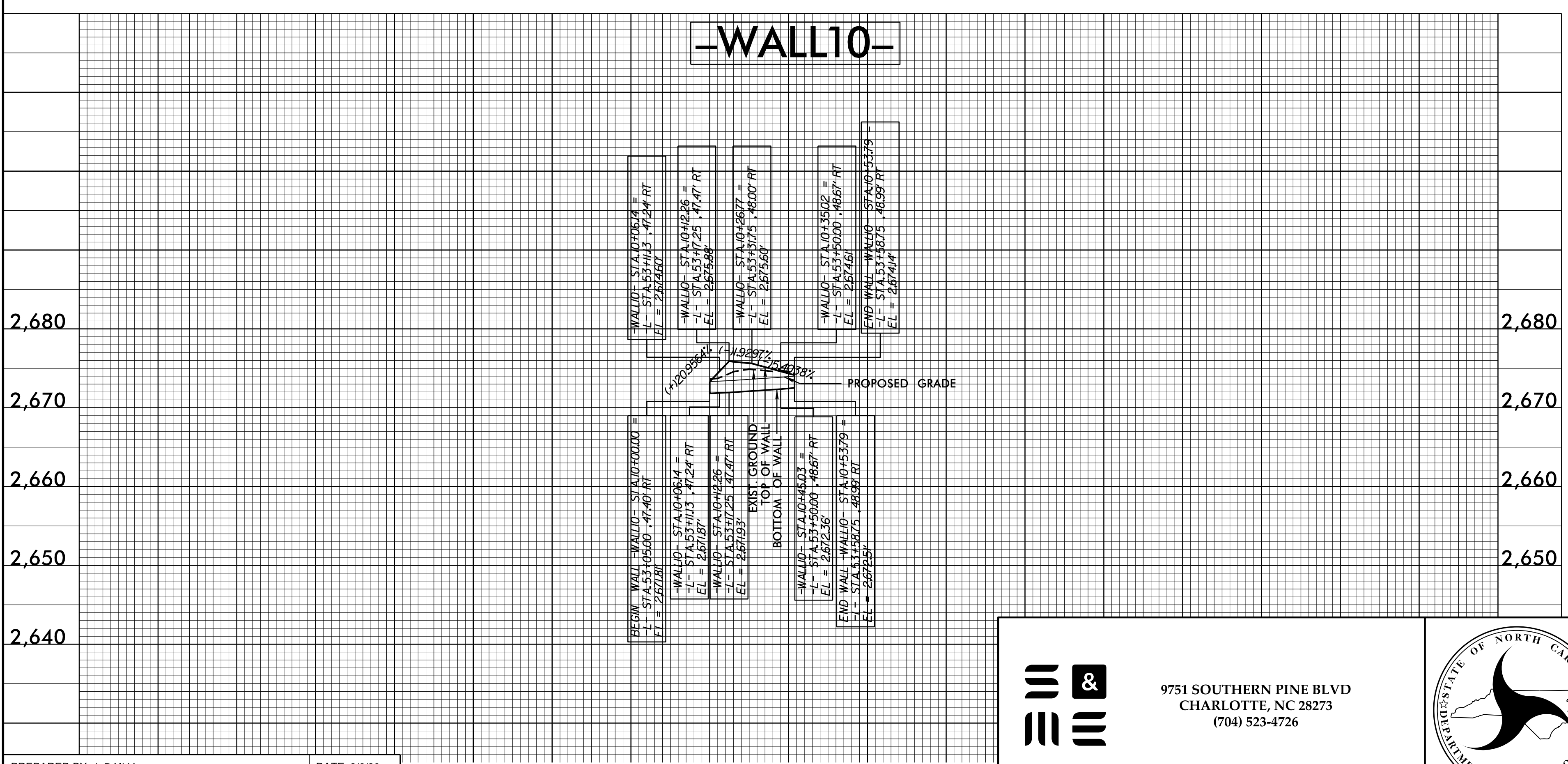
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UNLESS ALL SIGNATURES COMPLETED**



(ENGLISH)

CONCRETE SIDEWALK / MEDIAN

NOTES:  
SEE SHEET 29 FOR -L- PROFILE  
SEE SHEET 12 FOR PLANS  
SEE SHEET X-16 FOR CROSS SECTIONS



PROJECT NO.: U-5839  
HAYWOOD COUNTY

## RETAINING WALL NO. 10

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-8
2			4			

PREPARED BY: J. DAILY  
DATE: 2/6/23

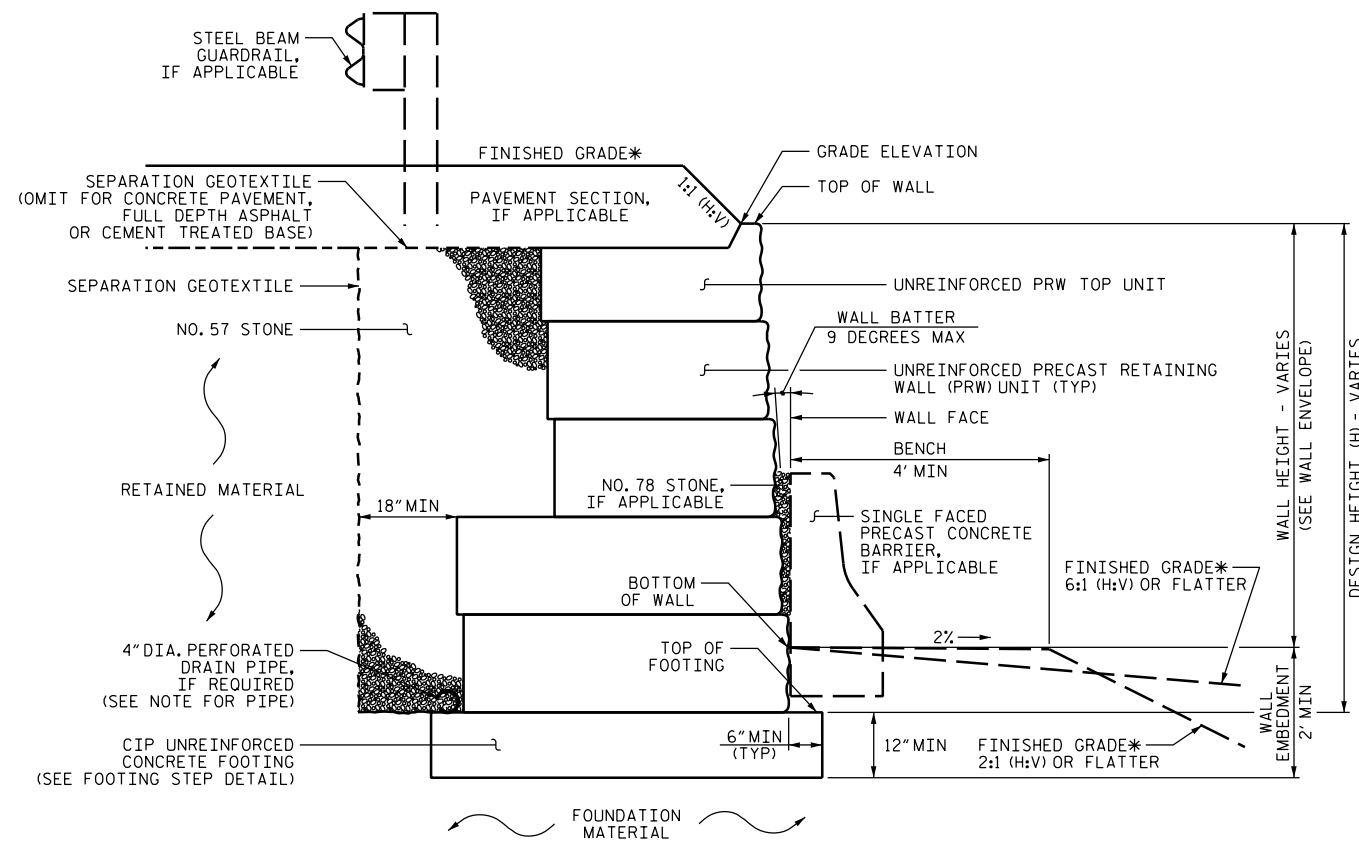
REVIEWED BY: K. HILL  
DATE: 2/6/23

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(704) 523-4726

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**GEOTECHNICAL  
ENGINEERING UNIT**





**PRECAST GRAVITY WALL WITH TOP PRW UNIT - TYPICAL SECTION**

\*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

**NOTES:**

- FOR PRECAST GRAVITY RETAINING WALLS, SEE SECTION 455 OF THE STANDARD SPECIFICATIONS.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- SEE SHEET 2C-8 OF THE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS. SUBMIT THE HANDRAIL ATTACHMENT DETAILS WITH THE DESIGN PACKAGE FOR REVIEW.
- A DRAIN PIPE IS NOT REQUIRED FOR RETAINING WALL NO. 1.
- BEFORE BEGINNING PRECAST GRAVITY WALL DESIGN FOR RETAINING WALL NO. 1, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.
- DESIGN RETAINING WALL NO. 1 FOR DESIGN HEIGHTS EQUAL TO THE WALL HEIGHT PLUS DEPTH TO TOP OF FOOTING (DIFFERENCE BETWEEN GRADE ELEVATION AND TOP OF FOOTING ELEVATION).
- DESIGN RETAINING WALL NO. 1 FOR THE FOLLOWING:
  - 1) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 1,500 PSF
  - 2) MINIMUM WALL EMBEDMENT DEPTH = 2 FT
  - 3) IN-SITU ASSUMED MATERIAL PARAMETERS:

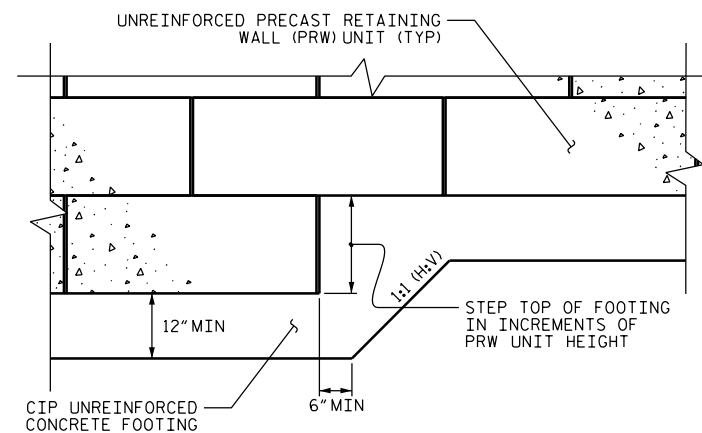
MATERIAL TYPE	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (φ) DEGREES	COHESION (c) PSF
RETAINED	115	31	0
FOUNDATION	120	30	0

DESIGN RETAINING WALL NO. 1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

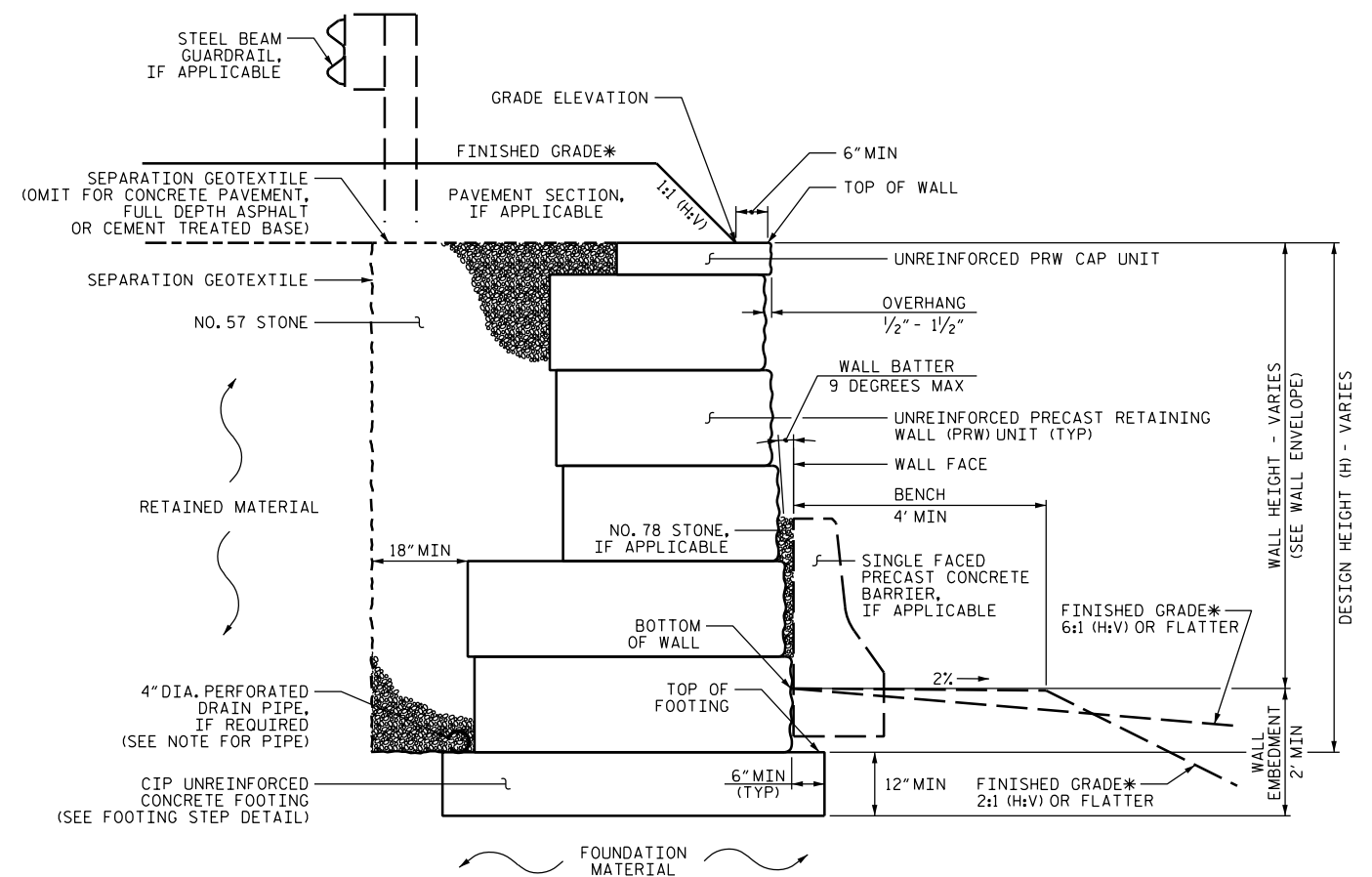
DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NO. 1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

"TEMPORARY SHORING" MAY BE REQUIRED FOR RETAINING WALL NO. 1 IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE TRAFFIC CONTROL PLANS.

AT THE CONTRACTOR'S OPTION, "TEMPORARY SHORING FOR WALL CONSTRUCTION" MAY BE USED TO CONSTRUCT RETAINING WALL NO. 1. SEE PRECAST GRAVITY RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.



**FOOTING STEP DETAIL**



**PRECAST GRAVITY WALL WITH CAP PRW UNIT - TYPICAL SECTION**

\*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

GEOTECHNICAL ENGINEER

ENGINEER

Professional Seal: Thomas J. Daily, No. 045672, State of North Carolina, Exp. 11/27/2023

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PRECAST GRAVITY WALL QUANTITY

RETAINING WALL NO.	TOTAL QUANTITY (SQUARE FEET)
1	1843

PROJECT NO.: U-5839

HAYWOOD COUNTY

STATION: 26+60 -L-

PREPARED BY: J. DAILY DATE: 11/27/23

REVIEWED BY: K. HILL DATE: 11/27/23



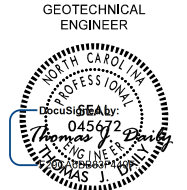
9751 SOUTHERN PINE BLVD  
CHARLOTTE, NC 28273  
(704) 523-4726

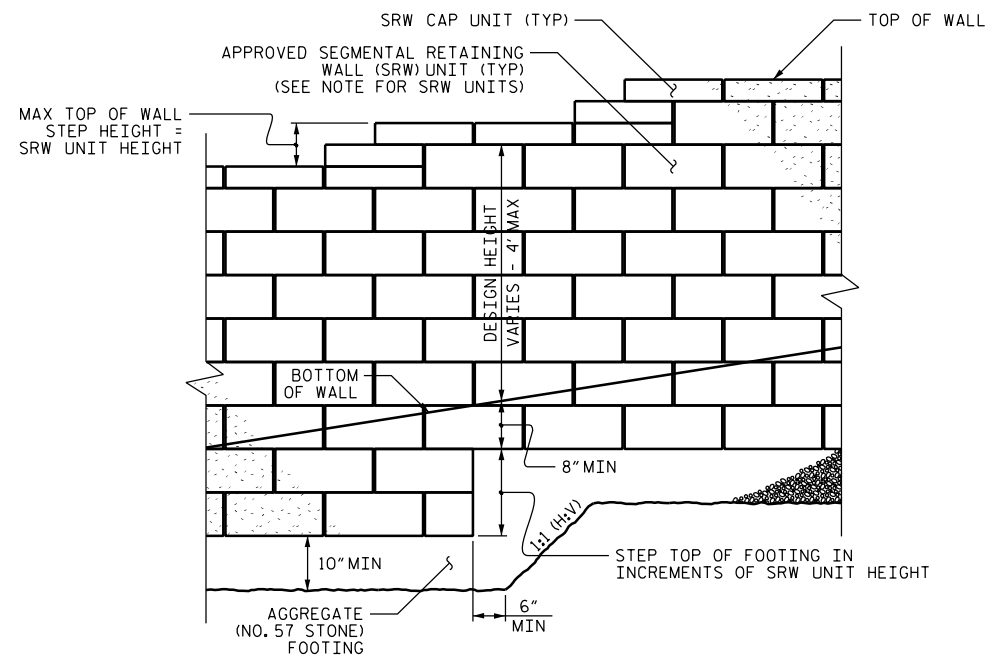
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 1 PRECAST GRAVITY WALL WITHOUT BACK SLOPE

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-9
2			4			

GEOTECHNICAL ENGINEER  3/31/2023 SIGNATURE DATE	ENGINEER SIGNATURE DATE
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**STANDARD SEGMENTAL GRAVITY WALL - PARTIAL ELEVATION**

**NOTES:**

FOR STANDARD SEGMENTAL GRAVITY RETAINING WALLS, SEE SECTION 454 OF THE STANDARD SPECIFICATIONS.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

SEE SHEET 2C-8 OF THE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS. SUBMIT THE HANDRAIL ATTACHMENT DETAILS WITH THE DESIGN PACKAGE FOR REVIEW.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS FOR INTERSTATE HIGHWAY OR RAILROAD PROJECTS.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN SURCHARGE LOADS WILL BE WITHIN 5'-6" OF THE BACK OF SRW CAP UNITS.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW WALLS.

SEGMENTAL RETAINING WALL (SRW) UNITS ARE APPROVED FOR EITHER 2' OR 4' MAXIMUM DESIGN HEIGHTS. FOR DETAILS AND DIMENSIONS OF APPROVED SRW UNITS AND MAXIMUM DESIGN HEIGHTS, SEE [www.ncdot.gov/resources/Geological/Pages/Products.aspx](http://www.ncdot.gov/resources/Geological/Pages/Products.aspx)

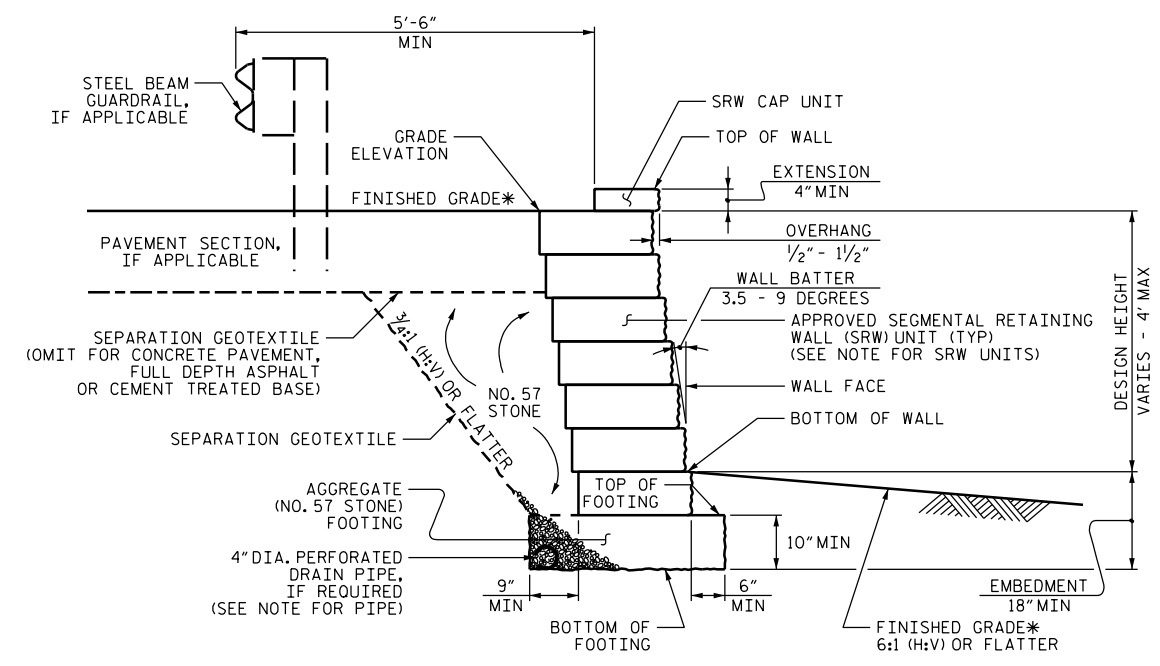
DO NOT MIX APPROVED SRW UNITS FROM DIFFERENT VENDORS ON THE SAME STANDARD SEGMENTAL GRAVITY WALL. USE THE SAME SIZE APPROVED SRW UNITS FOR EACH WALL SECTION.

BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT START WALL CONSTRUCTION UNTIL WALL ENVELOPES ARE ACCEPTED.

A DRAIN PIPE IS REQUIRED IF GROUNDWATER IS ABOVE BOTTOM OF FOOTINGS.

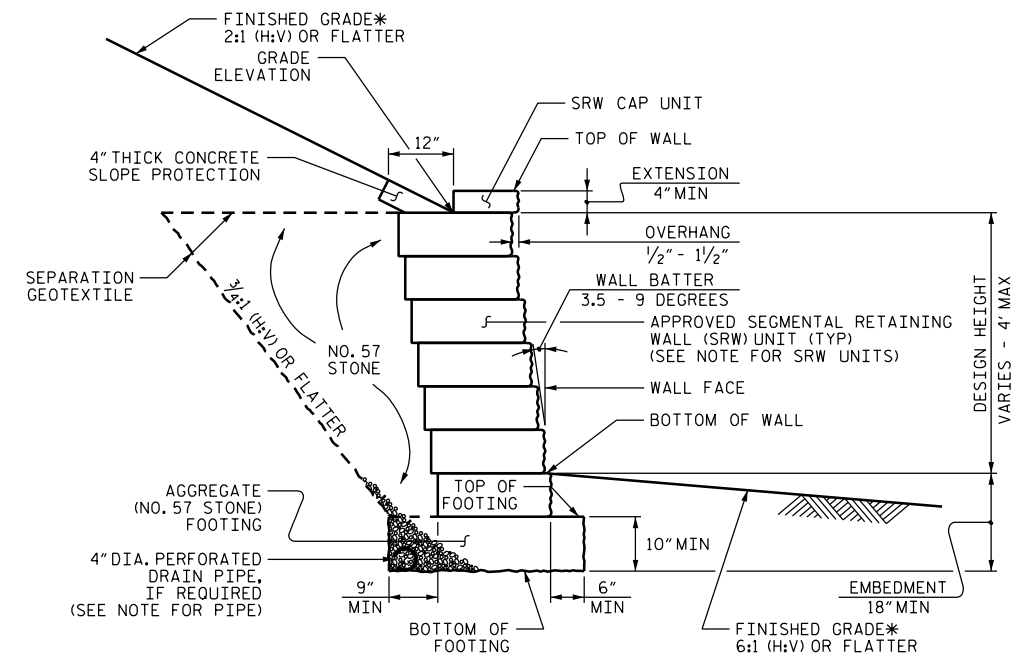
DO NOT PLACE NO. 57 STONE FOR FOOTINGS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

STANDARD SEGMENTAL GRAVITY WALL QUANTITY	
RETAINING WALL NO.	RETAINING WALL QUANTITY (SQ. FEET)
2	293
3	342
5	403
6	262
7	500
8	246
10	157
TOTAL QUANTITY = 2203 SF	



**STANDARD SEGMENTAL GRAVITY WALL WITHOUT SLOPE**

\*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



**STANDARD SEGMENTAL GRAVITY WALL WITH SLOPE**

\*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

PROJECT NO.: U-5839  
 HAYWOOD COUNTY  
 STATION: 13+49 -Y9-, 11+00 -Y10-, 36+54 -L-,  
 48+68 -L-, 51+12 -L-, 53+05 -L-,  
 12+49 -Y14-

PREPARED BY: J. DAILY	DATE: 3/31/23
REVIEWED BY: K. HILL	DATE: 3/31/23

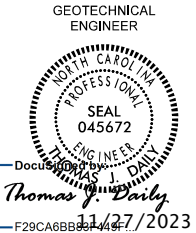


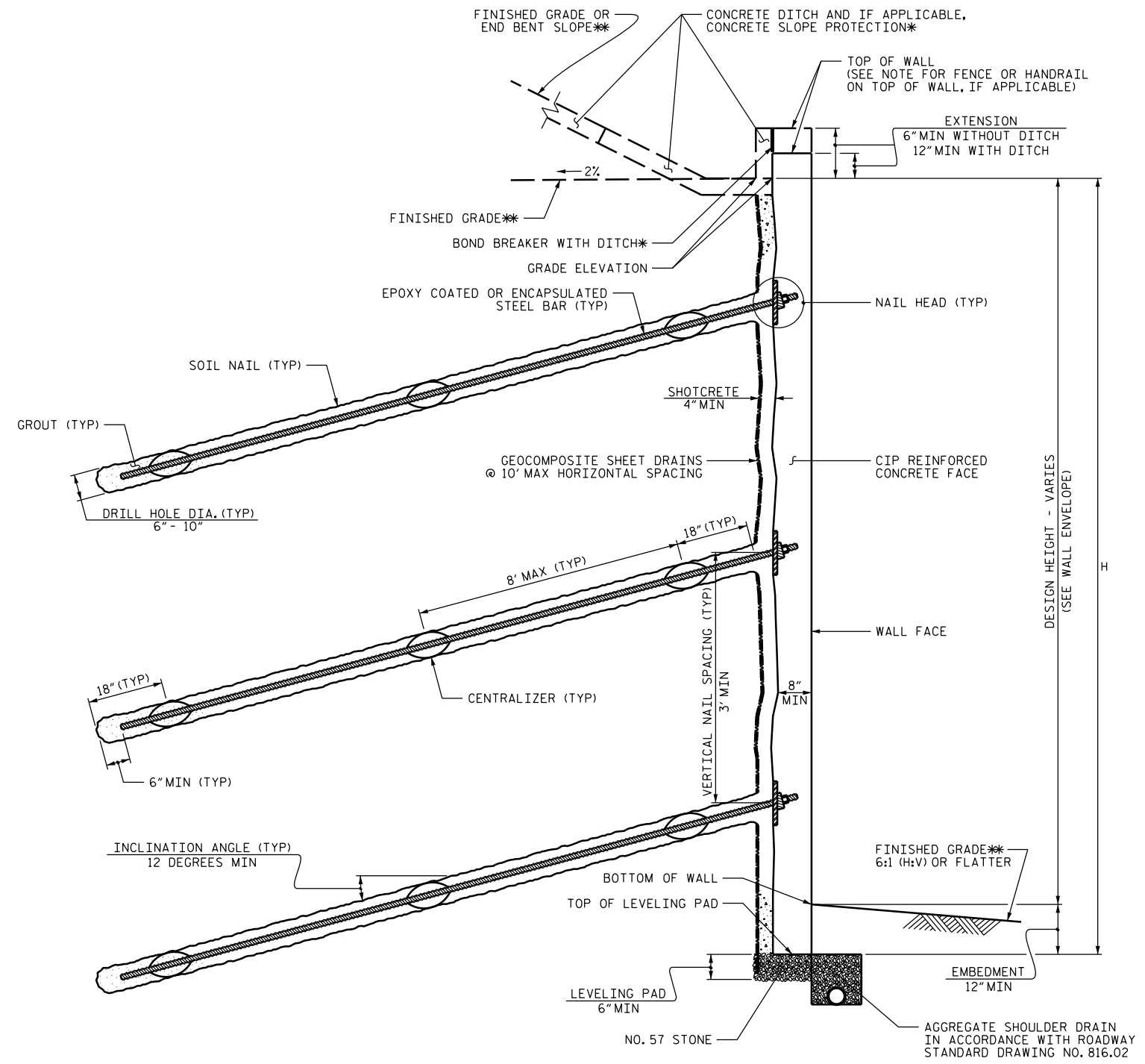
9751 SOUTHERN PINE BLVD  
 CHARLOTTE, NC 28273  
 (704) 523-4726

**NORTH CAROLINA**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**GEOTECHNICAL ENGINEERING UNIT**

RETAINING WALL NO. 2, 3, 5, 6, 7, 8 & 10 TYPICAL SECTION

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-10
2			4			

GEOTECHNICAL ENGINEER  Thomas J. Daily F29CA6BB8444 11/27/2023	ENGINEER     SIGNATURE _____ DATE _____
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**NOTES:**

- FOR SOIL NAIL RETAINING WALLS, SEE SOIL NAIL RETAINING WALLS PROVISION.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- SEE SHEET 2C-8 OF THE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS. SUBMIT THE HANDRAIL ATTACHMENT DETAILS WITH THE DESIGN PACKAGE FOR REVIEW.
- A SIMULATED STONE FORM LINER FINISH IS REQUIRED FOR THE CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. 4.
- BEFORE BEGINNING SOIL NAIL WALL DESIGN FOR RETAINING WALL NO. 4, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.
- DESIGN RETAINING WALL NO. 4 FOR THE FOLLOWING:
  - 1) H = DESIGN HEIGHT + EMBEDMENT
  - 2) DESIGN LIFE = 100 YEARS
  - 3) MINIMUM EMBEDMENT ELEVATION = 2666.4 FT
  - 4) IN-SITU ASSUMED MATERIAL PARAMETERS:
    - UNIT WEIGHT,  $\gamma$  = 110 PCF
    - FRICTION ANGLE,  $\phi$  = 26 DEGREES
    - COHESION, c = 100 PSF
- DESIGN RETAINING WALL NO. 4 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.
- EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH SOIL NAILS FOR RETAINING WALL NO. 4.

ESTIMATED SOIL NAIL WALL QUANTITY			
RETAINING WALL NO.	TOTAL QUANTITY (SQUARE FEET)	SOIL NAIL VERIFICATION TEST	SOIL NAIL PROOF TEST
4	1847	1	10

**SOIL NAIL WALL - TYPICAL SECTION**

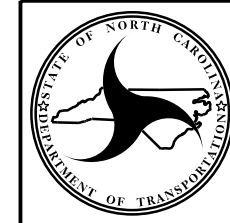
\*SEE CONCRETE DITCH BEHIND WALL DETAILS.  
 \*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

PROJECT NO.: U-5839  
 HAYWOOD COUNTY  
 STATION: 47+00 -L-

PREPARED BY: J. DAILY	DATE: 5/18/23
REVIEWED BY: K. HILL	DATE: 5/18/23



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NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**GEOTECHNICAL  
 ENGINEERING UNIT**

REVISIONS						SHEET NO. W-11
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			

**RETAINING WALL NO. 4  
 TYPICAL SECTION**