
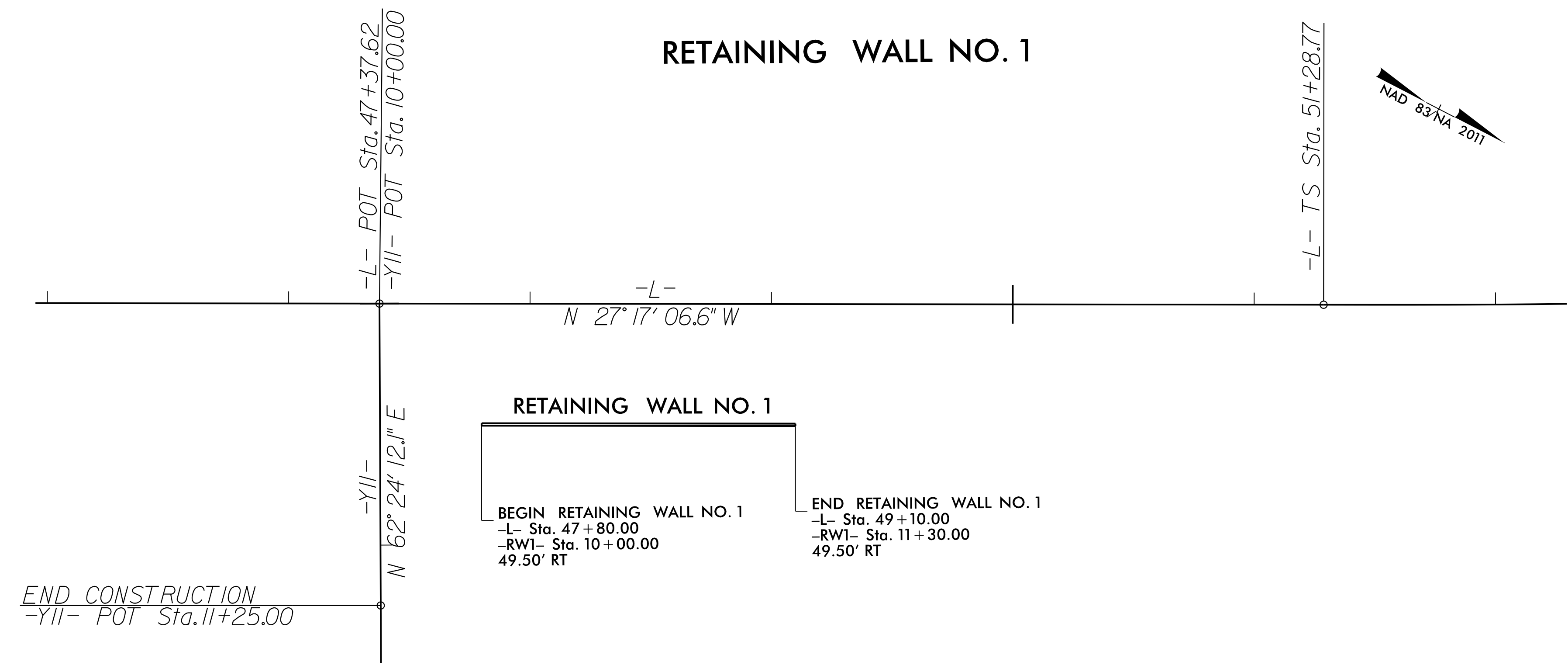


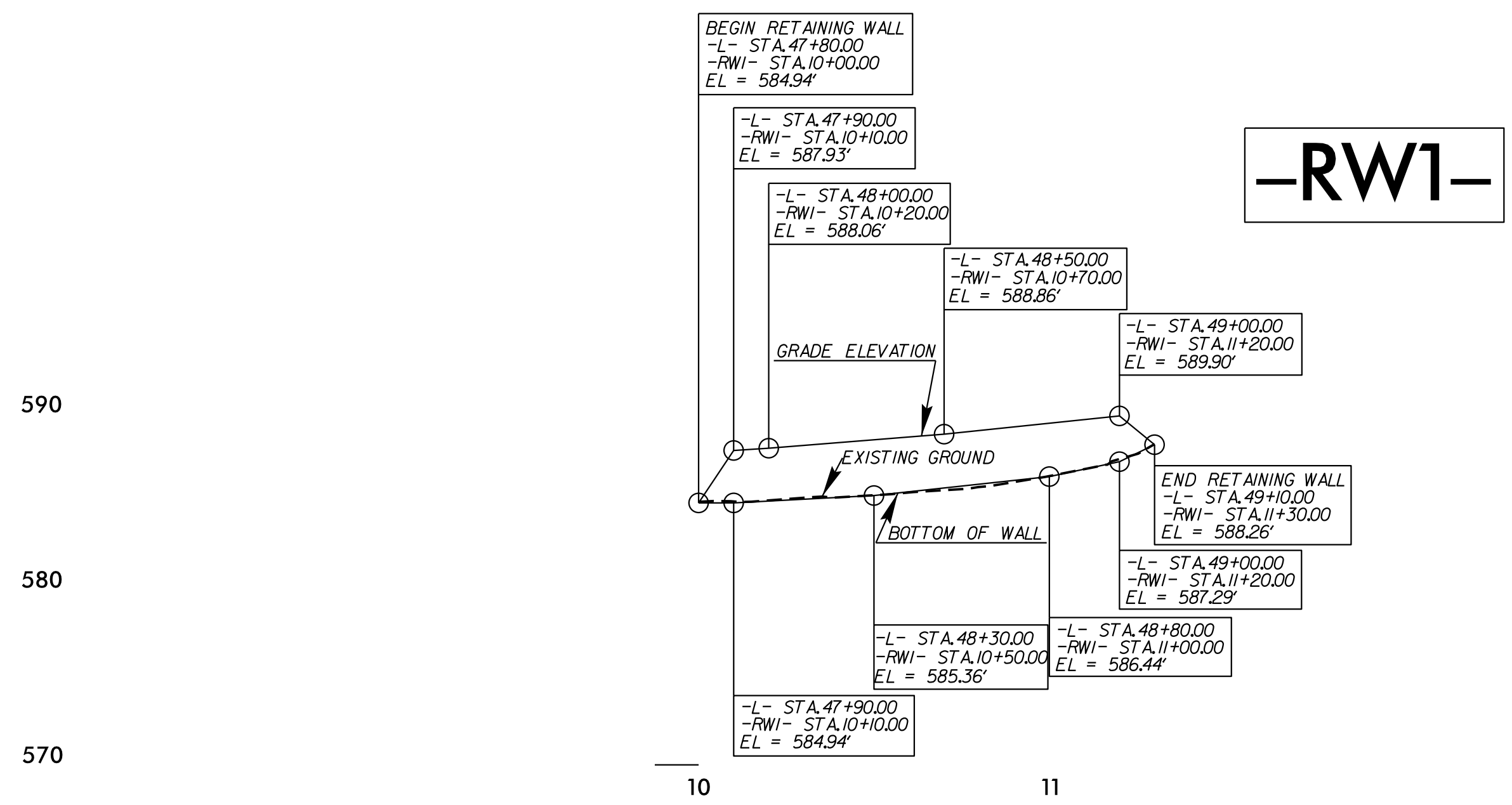
PROJECT REFERENCE NO. R-5726 (50218.1.1)		SHEET NO. W-1	
GEOTECHNICAL ENGINEER  DAVID L. TEAGUE		ENGINEER	
DocuSigned by: David L. Teague 12/5/2018 <small>9014EE4499150624</small>		SIGNATURE DATE SIGNATURE DATE	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



RETAINING WALL NO. 1

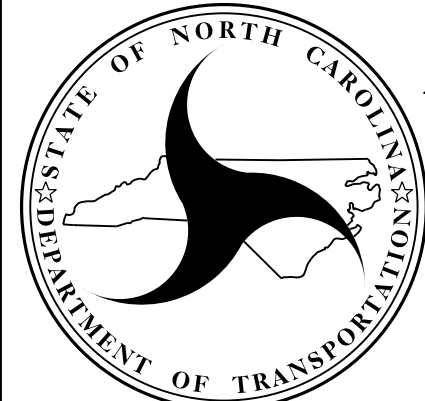
BEGIN RETAINING WALL NO. 1
-L- Sta. 47+80.00
-RWI- Sta. 10+00.00
49.50' RT

END RETAINING WALL NO. 1
-L- Sta. 49+10.00
-RWI- Sta. 11+30.00
49.50' RT



ESTIMATED SEGMENTAL GRAVITY WALL QUANTITY	
RETAINING WALL NO.	SEGMENTAL GRAVITY RETAINING WALLS (SQ. FEET)
1	360

PREPARED BY: D. TEAGUE DATE: 12/2018
REVIEWED BY: C. CHEN DATE: 12/2018




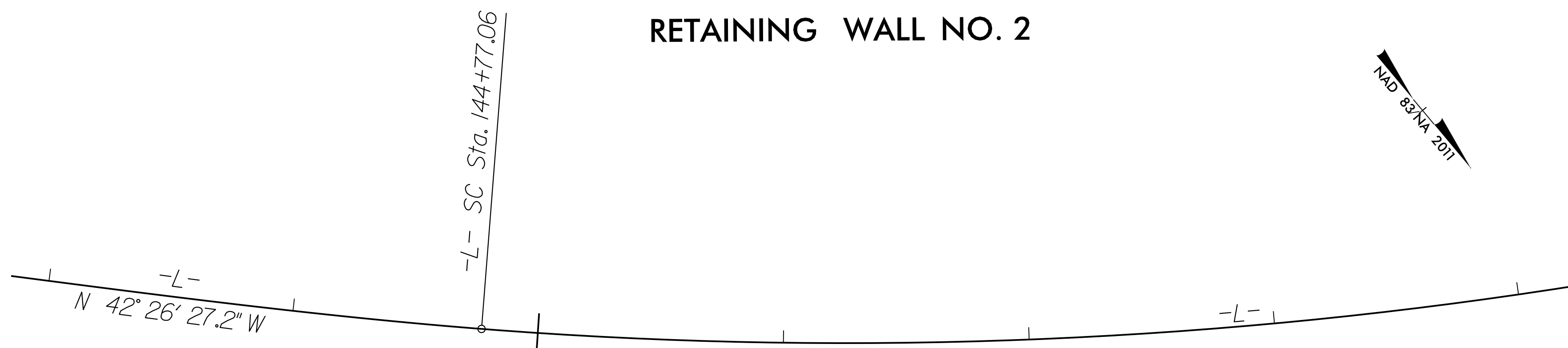
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

**SEGMENTAL GRAVITY RETAINING WALL NO. 1
PLAN VIEW AND WALL ENVELOPE**

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

PROJECT REFERENCE NO. R-5726 (50218.1.1)	SHEET NO. W-2
GEOTECHNICAL ENGINEER  Documented by: <i>David L. Teague</i> 12/5/2018 <small>0014EE449286&L&T&R&E DATE SIGNATURE DATE</small>	ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

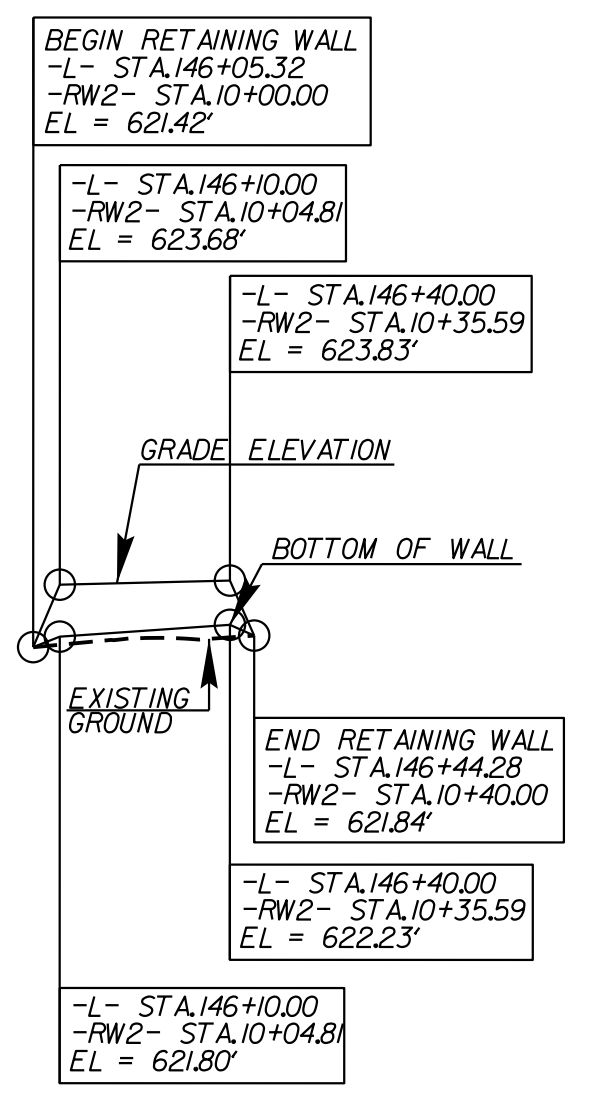


RETAINING WALL NO. 2

BEGIN RETAINING WALL NO. 2 -L- Sta. 146+05.32 -RW2- Sta. 10+00.00 49.50' RT	END RETAINING WALL NO. 2 -L- Sta. 146+44.28 -RW2- Sta. 10+40.00 49.50' RT
---	---

630

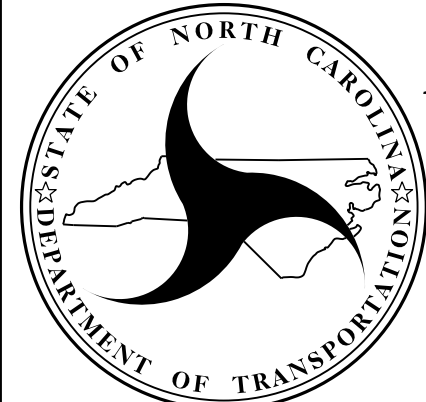
620



10 11

ESTIMATED SEGMENTAL GRAVITY WALL QUANTITY	
RETAINING WALL NO.	SEGMENTAL GRAVITY RETAINING WALLS (SQUARE FEET)
2	127

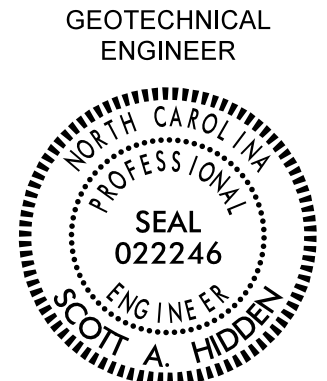
PREPARED BY: D. TEAGUE	DATE: 12/2018
REVIEWED BY: C. CHEN	DATE: 12/2018



**NORTH CAROLINA
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SEGMENTAL GRAVITY RETAINING WALL NO. 2 PLAN VIEW AND WALL ENVELOPE					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

GEOTECHNICAL ENGINEER  SEAL 022246 SCOTT A. HADDEN ENGINEER	ENGINEER
Digitally signed by Scott A. Hadden <small>F700CAE89FCA03</small>	DATE: 06/25/2024 SIGNATURE: _____ DATE: _____
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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.

DO NOT ATTACH FENCES OR HANDRAILS TO STANDARD SEGMENTAL GRAVITY WALLS.

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 FOR WALL HEIGHTS UP TO 4' AND WITHIN 10' OF THE BACK OF SRW CAP UNITS FOR WALL HEIGHTS GREATER THAN 4' TO 5'.

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

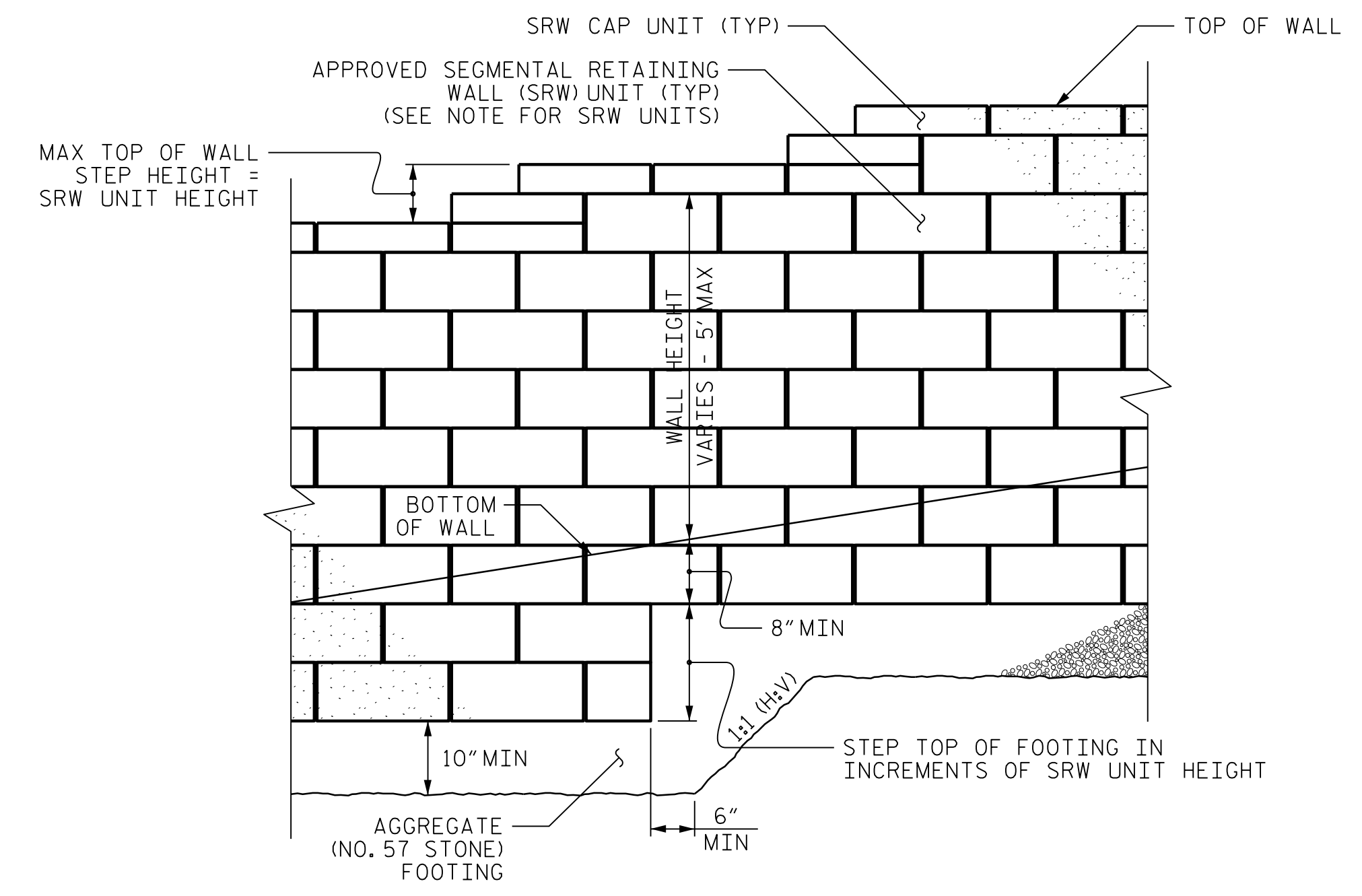
SEGMENTAL RETAINING WALL (SRW) UNITS ARE APPROVED FOR EITHER 2' OR 5' MAXIMUM WALL HEIGHTS. FOR DETAILS AND DIMENSIONS OF APPROVED SRW UNITS AND MAXIMUM WALL HEIGHTS, SEE connect.ncdot.gov/resources/Geological/Pages/Products.aspx

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.

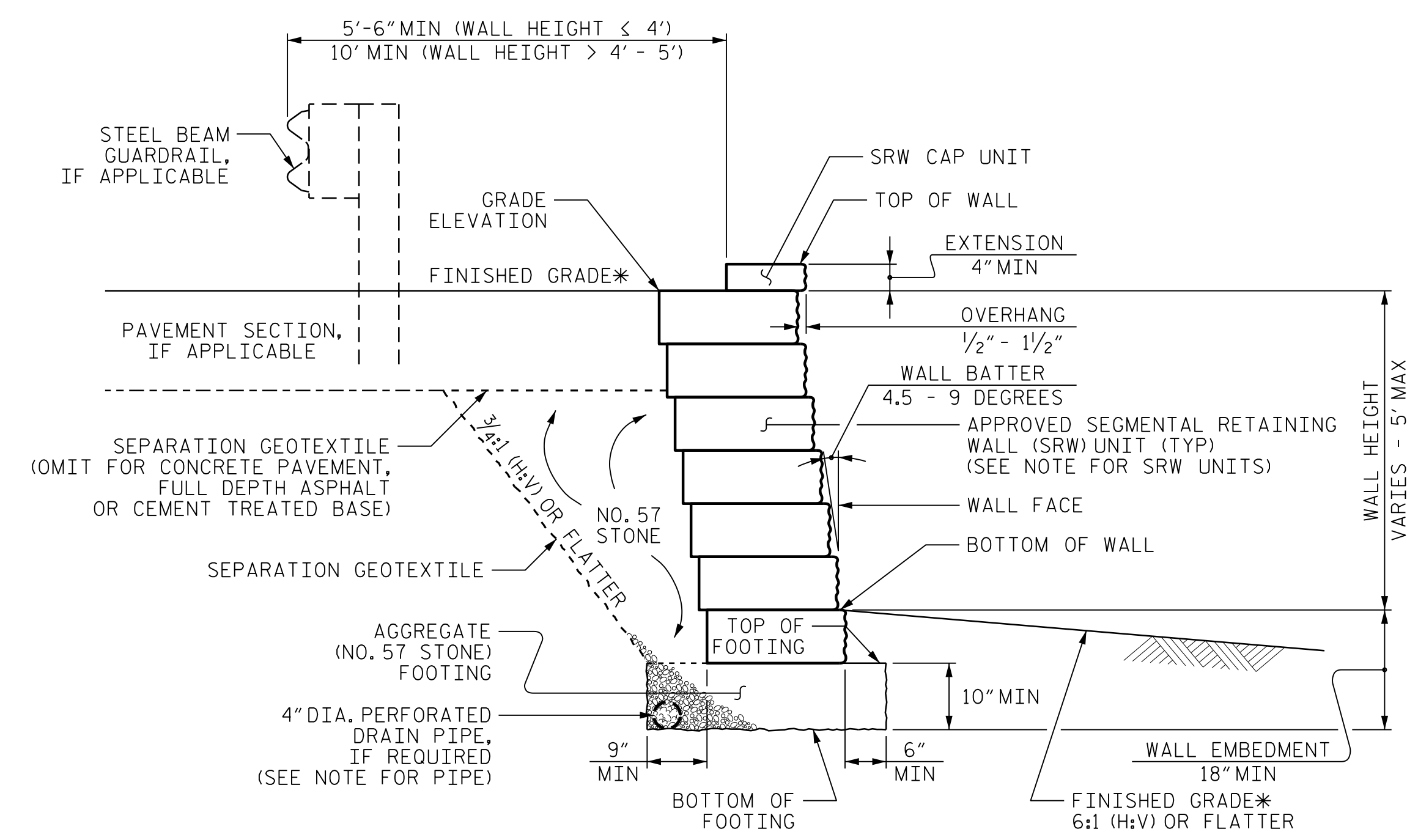
BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT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

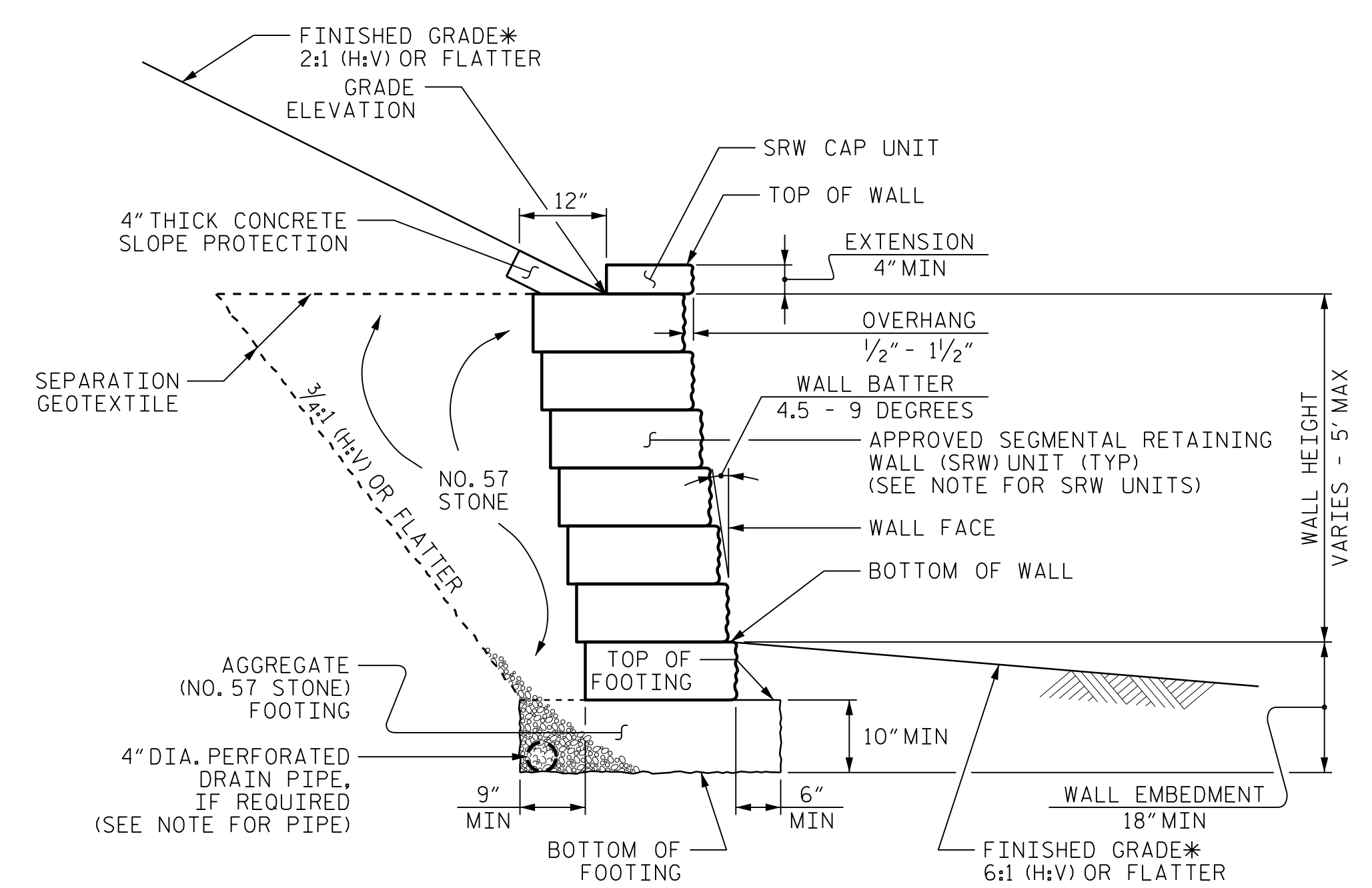


STANDARD SEGMENTAL GRAVITY WALL - PARTIAL ELEVATION



STANDARD SEGMENTAL GRAVITY WALL WITHOUT SLOPE

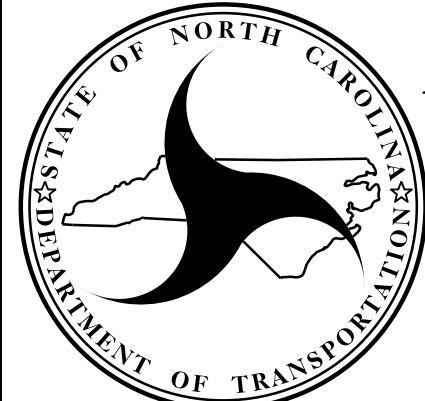
*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



STANDARD SEGMENTAL GRAVITY WALL WITH SLOPE

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

PROJECT NO.: R-5726 COUNTY _____
 STATION: 47+80.00 -L- TO 49+10 -L- AND 146+05.32 -L- TO 146+44.28 -L-
 SHEET 1 OF 1 WALL ID RW- -


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

STANDARD DETAIL NO. 454.01
**STANDARD
SEGMENTAL GRAVITY
RETAINING WALL**
 SHEET NO. W-3
 DATE: 10-19-21