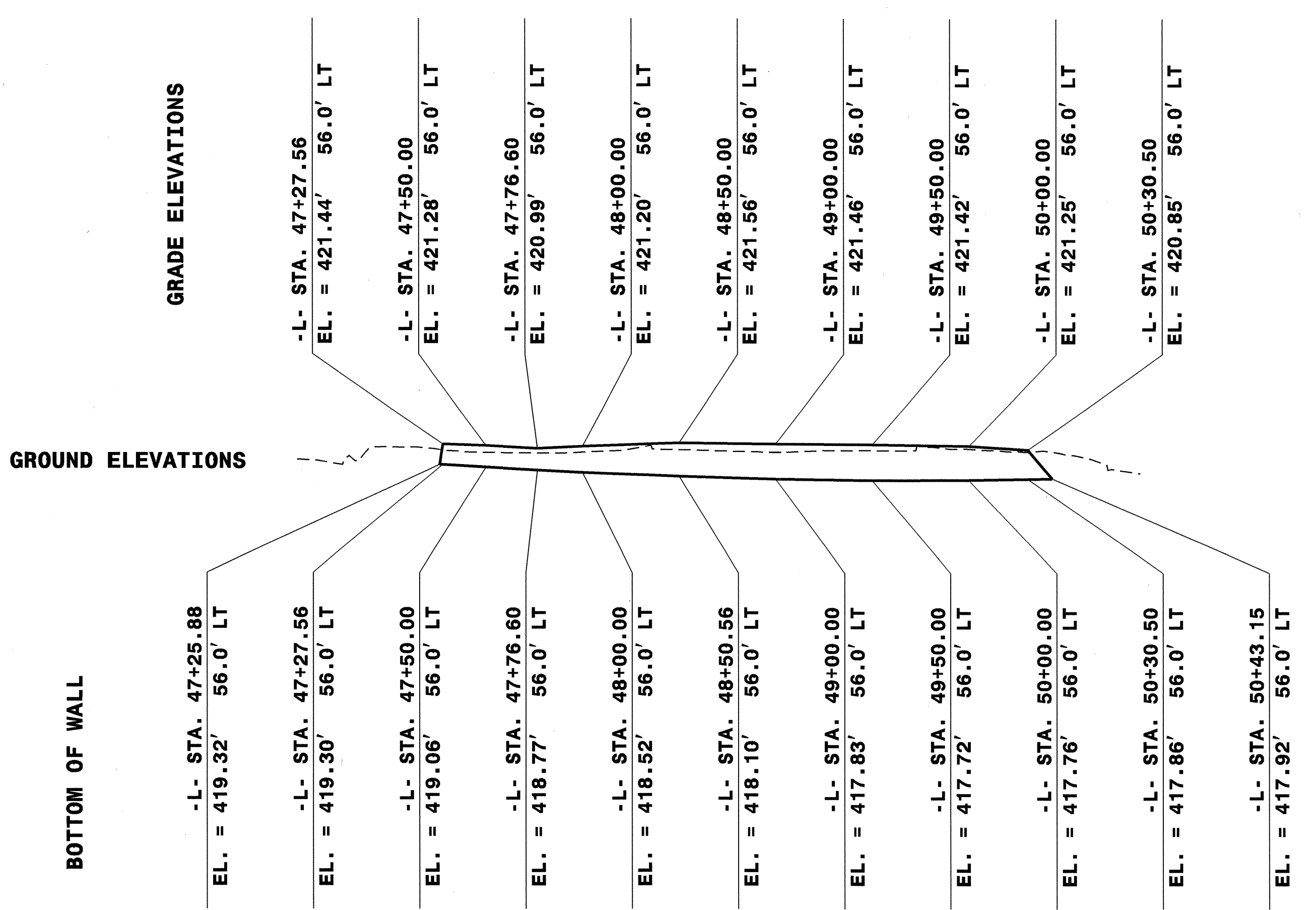


WALL NO. 1 PLAN VIEW, NTS

RETAINING WALL TYPICAL SECTION				
STA.	OFFSET FROM Q.	GRADE ELEV.	BOTTOM OF WALL ELEV.	DESIGN HEIGHT
-L- 47+25.88	56.00' LT	419.32	419.32	0.00'
-L- 47+27.56	56.00' LT	421.44	419.30	2.14'
-L- 47+50.00	56.00' LT	421.28	419.06	2.22'
-L- 47+76.60	56.00' LT	420.99	418.77	2.22'
-L- 48+00.00	56.00' LT	421.20	418.52	2.68'
-L- 48+50.00	56.00' LT	421.56	418.10	3.46'
-L- 49+00.00	56.00' LT	421.46	417.83	3.63'
-L- 49+50.00	56.00' LT	421.42	417.72	3.70'
-L- 50+00.00	56.00' LT	421.25	417.76	3.49'
-L- 50+30.50	56.00' LT	420.85	417.86	2.99'
-L- 50+43.15	56.00' LT	417.92	417.92	0.00'



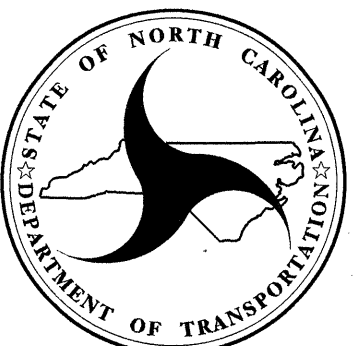
WALL NO. 1 ENVELOPE, NTS
- EXPOSED WALL FACE -

TOTAL BILL OF MATERIAL	
SEGMENTAL GRAVITY RETAINING WALLS	1150 SQUARE FEET

PREPARED BY: JINYOUNG PARK DATE: 05/2010
REVIEWED BY: JAMES R. BATTS DATE: 05/2010

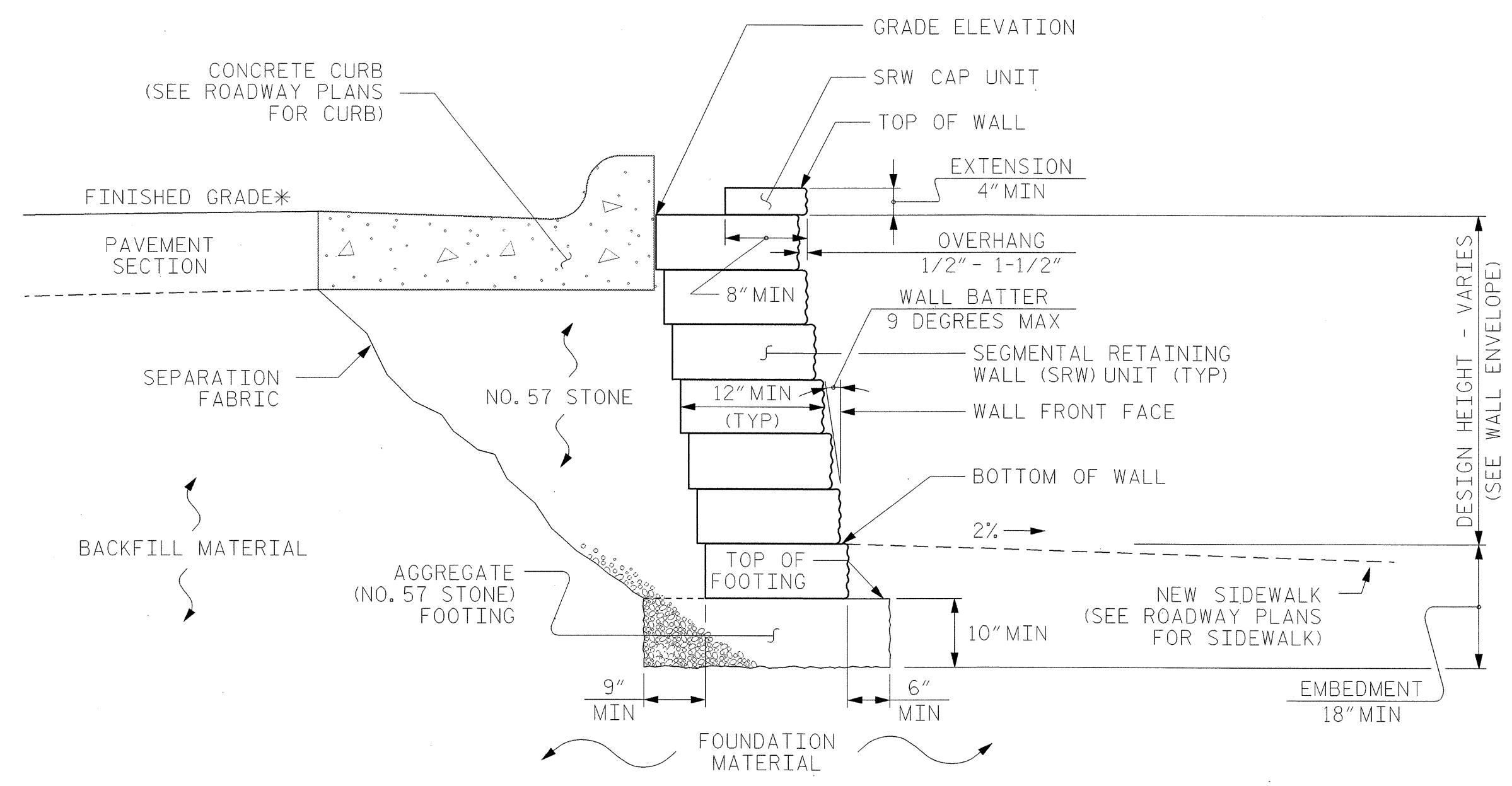
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 WESTERN REGIONAL OFFICE
 CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH



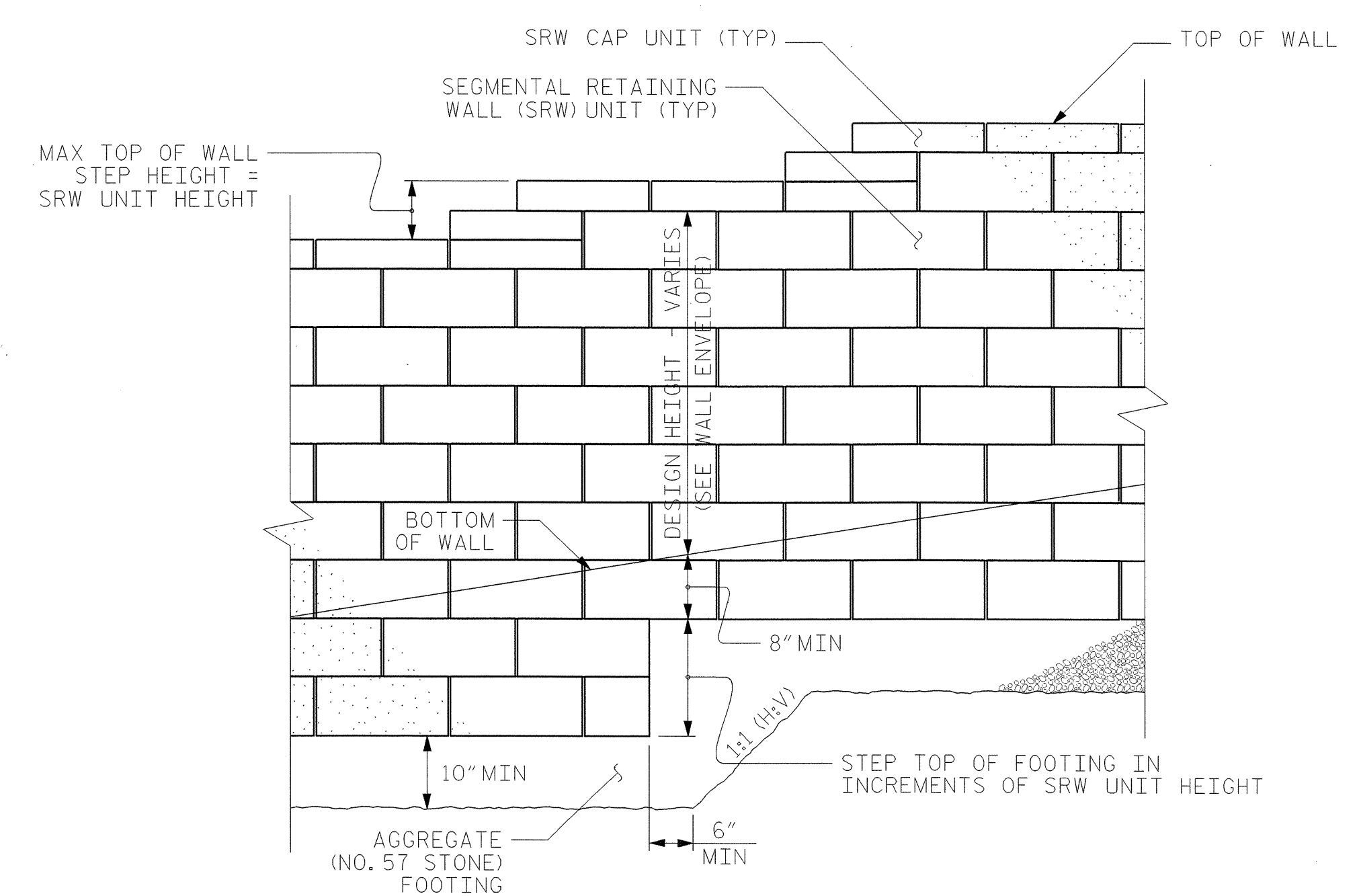
SEGMENTAL GRAVITY RETAINING WALL NO. 1 ENVELOPE

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



SEGMENTAL GRAVITY WALL - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



SEGMENTAL GRAVITY WALL - TYPICAL ELEVATION

NOTES:

- FOR SEGMENTAL GRAVITY RETAINING WALLS, SEE SEGMENTAL GRAVITY RETAINING WALLS PROVISION.
- USE SRW UNITS WITH A A NATURAL STONE TYPE FACE FOR RETAINING WALL NO. 1.
- USE SRW UNITS WITH A EARTH TONE COLOR FOR RETAINING WALL NO. 1.
- A DRAIN PIPE IS NOT REQUIRED FOR RETAINING WALL NO. 1.
- BEFORE BEGINNING SEGMENTAL 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 WALL HEIGHTS EQUAL TO THE DESIGN 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) MINIMUM DESIGN LIFE = 75 YEARS
 - 2) MAXIMUM FACTORED RESISTANCE = 3500 PSF
 - 3) IN-SITU ASSUMED MATERIAL PARAMETERS:

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

- DESIGN RETAINING WALL NO.1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.
- VERIFY ANY UTILITY CONFLICT BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN OR CONSTRUCTION.
- DO NOT PLACE NO. 57 STONE FOR FOOTINGS FOR RETAINING WALL NO. 1 UNTIL OBTAINING APPROVAL OF THE EXCAVATION DEPTH AND FOUNDATION MATERIAL.

PREPARED BY: JINYOUNG PARK DATE: 05/2010
 REVIEWED BY: JAMES R. BATTS DATE: 06/2010

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SEGMENTAL GRAVITY RETAINING WALL NO. 1

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