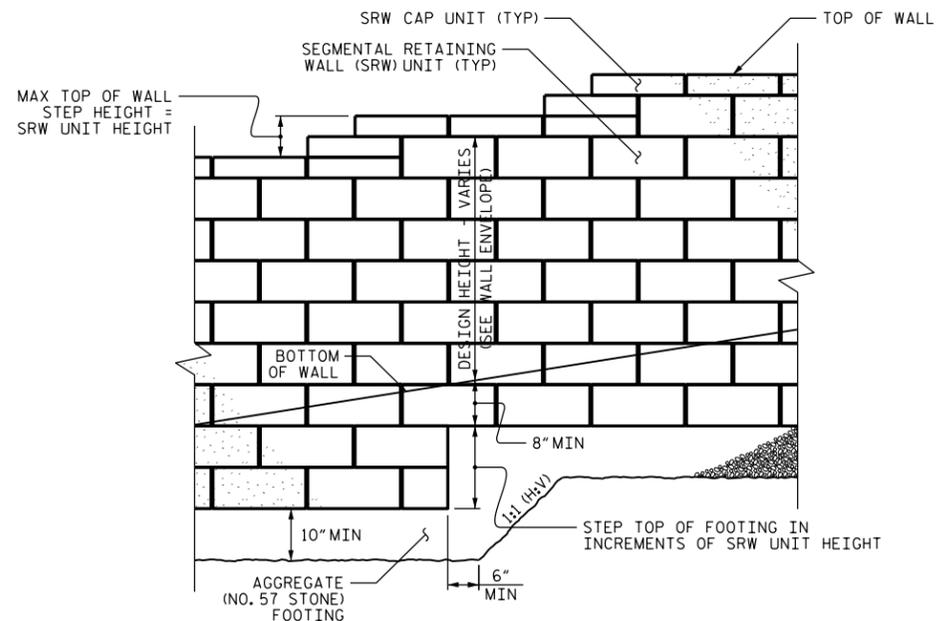


SEGMENTAL GRAVITY WALL - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



SEGMENTAL GRAVITY WALL - TYPICAL ELEVATION

NOTES:

FOR SEGMENTAL GRAVITY RETAINING WALLS, SEE SEGMENTAL GRAVITY RETAINING WALLS PROVISION.

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

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.

FREEZE-THAW DURABLE SRW UNITS ARE REQUIRED IN ACCORDANCE WITH THE SEGMENTAL GRAVITY RETAINING WALLS PROVISION.

USE SRW UNITS WITH A _____ FACE FOR RETAINING WALL NO. .

USE SRW UNITS WITH A _____ COLOR FOR RETAINING WALL NO. .

A DRAIN PIPE IS OR IS NOT REQUIRED FOR RETAINING WALL NO. .

BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN FOR RETAINING WALL NO. . 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. . 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. . FOR THE FOLLOWING:

- 1) MINIMUM DESIGN LIFE = 75 YEARS
- 2) MAXIMUM FACTORED RESISTANCE = _____ PSF
- 3) MINIMUM EMBEDMENT ELEVATION = _____ FT
- 4) IN-SITU ASSUMED MATERIAL PARAMETERS:

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

THE MINIMUM EMBEDMENT ELEVATION FOR RETAINING WALL NO. . INCLUDES EMBEDMENT FOR SCOUR.

DESIGN RETAINING WALL NO. . FOR A PIPE EXTENDING THROUGH THE WALL AS SHOWN. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN OR CONSTRUCTION.

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

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



GEOTECHNICAL ENGINEERING UNIT
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STD CELL Wall_SegmentalGravity_GR

SEGMENTAL GRAVITY WALL WITH GUARDRAIL - TYPICALS & NOTES

DATE: 6-21-11