

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.

A DRAIN PIPE IS REQUIRED FOR RETAINING WALL NOS. 5 AND 6.

BEFORE BEGINNING PRECAST GRAVITY WALL DESIGN FOR RETAINING WALL NOS.5 AND 6, 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 NOS.5 AND 6 FOR DESIGN HEIGHTS EQUAL TO THE WALL HEIGHT PLUS DEPTH TO TOP OF FOOTING (DIFFERENCE BETWEEN GRADE ELEVATION AND TOP OF FOOTING ELEVATION).

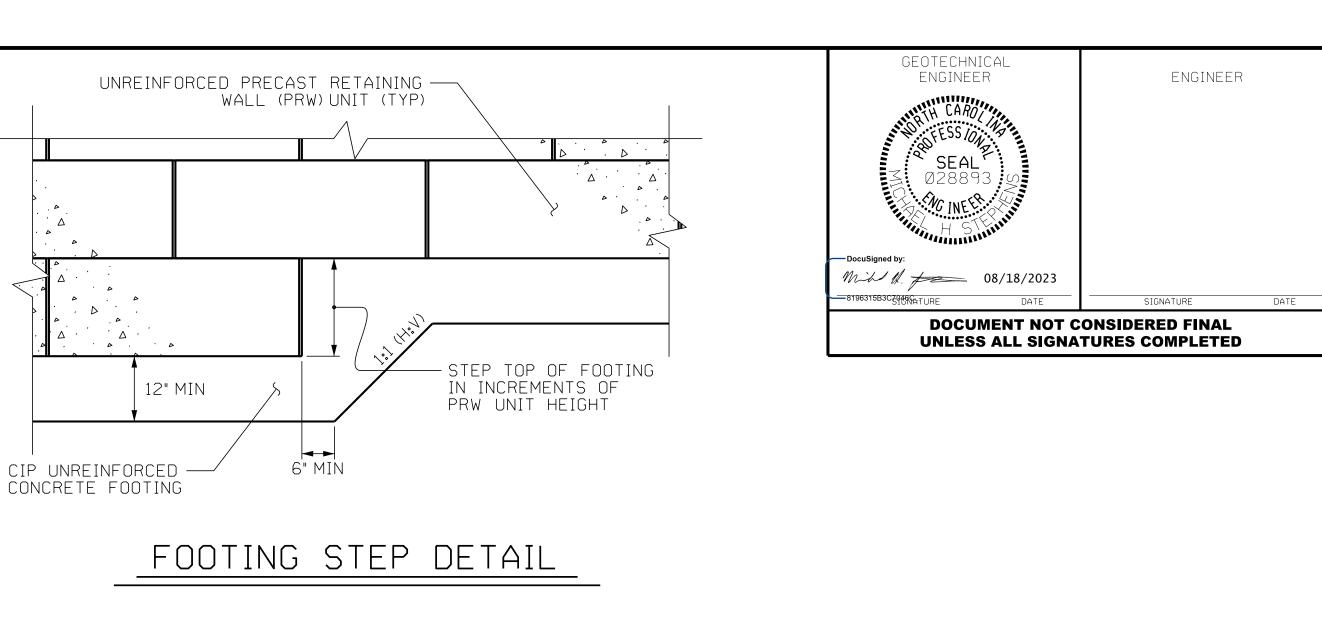
DESIGN RETAINING WALL NOS. 5 AND 6 FOR THE FOLLOWING:
1) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 2,700 PSF

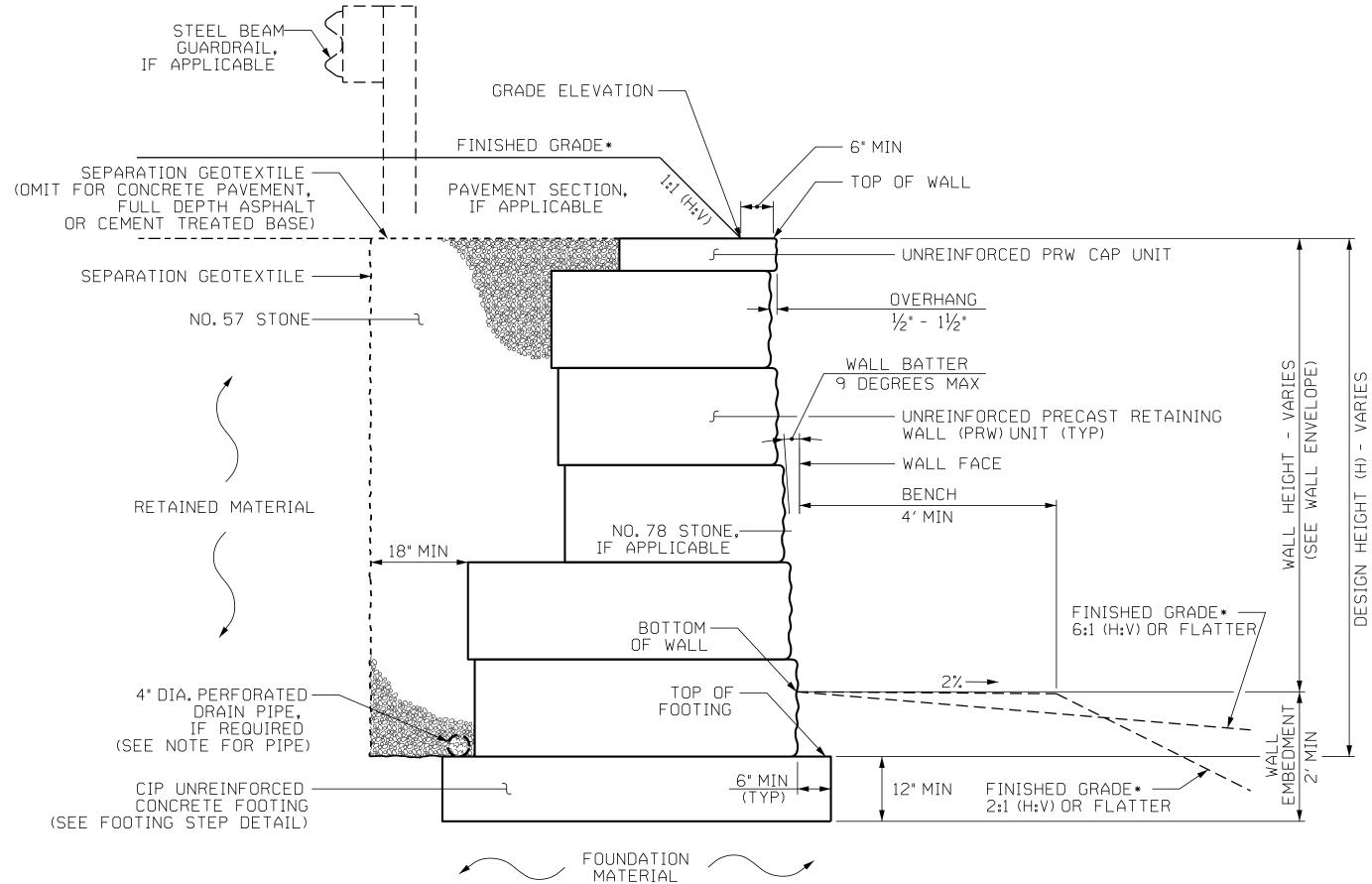
2) MINIMUM WALL EMBEDMENT ELEVATION = 2 FT 3) IN-SITU ASSUMED MATERIAL PARAMETERS:

of it offer headings further than the terms.									
MATERIAL TYPE	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (4) Degrees	COHESION (c) PSF						
RETAINED	120	30	Ø						
FOUNDATION	120	30	Ø						

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

DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NOS.5 AND 6 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.





PRECAST GRAVITY WALL WITH CAP PRW UNIT - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

PROJECT NO.: 44395.1.1 (U-5824)

FORSYTH COUNTY

WALL NOS.5 AND 6

STATION:<u>sta -l- 102+30</u>

SHEET 5 OF 5

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL

ENGINEERING UNIT

RETAINING WALL NOS.5 AND 6, SEGMENTAL BLOCK RETAINING WALLS

REVISIONS					SHEET
BY	DATE	NO.	BY	DATE	NO.
MHS	8/23	3			W-5
		4			W

PREPARED BY: MHS

DATE: 2/3/23

REVIEWED BY: SCC

DATE: 2/3/23