

NOTES

SUBMIT PROPRIETARY RETAINING WALL DESIGN CALCULATIONS AND PLANS TO THE ENGINEER FOR REVIEW AND APPROVAL, SEE SPECIAL PROVISIONS FOR MODULAR BLOCK RETAINING WALL DESIGN. DESIGN THE MODULAR BLOCK RETAINING WALL TO MEET ALL THE CRITERIA OF THE LATEST VERSION OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND ITS INTERIMS.

ALL WALL BACKFILL MATERIAL WITHIN THE REINFORCED ZONE MUST BE #57 WASHED CRUSHED STONE. FOR DESIGN, USE AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 LB/FT² AND THE FOLLOWING STRENGTH PARAMETERS:

#57 STONE BACKFILL: $\phi = 34^\circ$, $c = 0$, UNIT WEIGHT = 110 LB/FT³
 ALL OTHER EARTH MATERIAL AROUND WALL: $\phi = 30^\circ$, $c = 0$, UNIT WEIGHT = 120 LB/FT³

A MINIMUM EMBEDMENT DEPTH OF 2.0 FT. BELOW THE FINAL GRADE LINE, IS REQUIRED.

USE CAST IN PLACE LEVELING PAD.

USE CAP BLOCK COPING.

TOP OF WALL ELEVATION MAY BE ADJUSTED TO ACCOMMODATE MODULAR BLOCKS, BUT MUST BE A MINIMUM OF 3.0 IN. ABOVE FINISHED GRADE AT ALL WALL LOCATIONS TO AVOID SPILLOVER.

ALL ELEVATIONS ARE IN FEET.

FOR MODULAR BLOCK RETAINING WALL, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

MATCH THE PROPOSED MODULAR BLOCK WALL TO THE EXISTING MODULAR BLOCK WALL USED ON THE SITE IN COLOR, SIZE, AND TEXTURE.

TIE THE MODULAR BLOCK TO THE EXISTING MODULAR BLOCK WALL AT STATION 10+11.63 +/- 3.0 FT. -Y2-, 35.90 FT. LT.

TIE THE MODULAR BLOCK WALL TO THE EXISTING MODULAR BLOCK WALL AT STATION 56+44.70 +/- 3.0 FT. -L-, 42.46 FT. LT.

THE PARKING LOT ADJACENT TO THE WALL IS NOT TO BE DISTURBED DURING WALL CONSTRUCTION.

TEMPORARY SHORING FOR WALL CONSTRUCTION IS REQUIRED AND IS INCIDENTAL TO THE COST OF THE WALL.

FOR DESIGN OF TEMPORARY SHORING FOR WALL CONSTRUCTION, USE THE FOLLOWING SOIL PARAMETERS:

UNIT WEIGHT ABOVE WATER = 120 LB/FT³,
 UNIT WEIGHT BELOW WATER = 60 LB/FT³, FRICTION ANGLE, $\phi = 28^\circ$,
 COHESION, $c = 0$ PSF.

DO NOT USE THE STANDARD SHORING DESIGN FOR TEMPORARY SHORING FOR WALL CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHORING DESIGN.

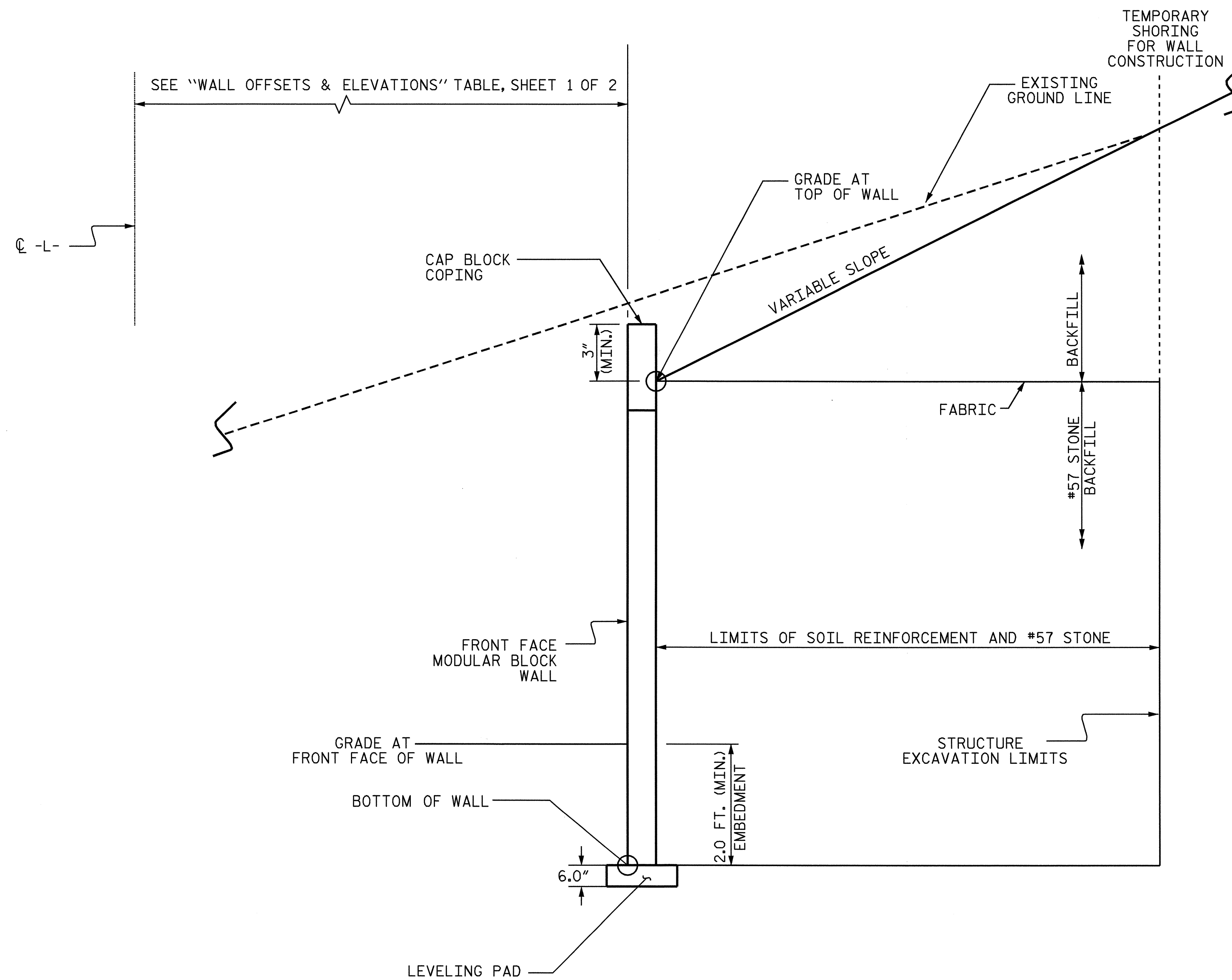
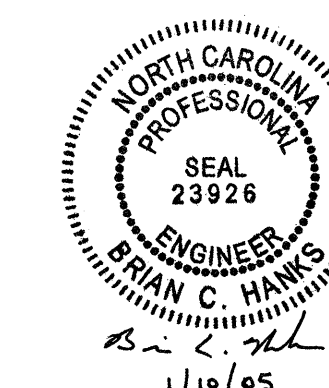
FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROJECT NO. U-3837
FORSYTH COUNTY
 STATION: 51+85.44 -L-
SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

MODULAR BLOCK
 RETAINING WALL
 DETAIL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	W-2
1			3			TOTAL SHEETS
2			4			2



TYPICAL SECTION