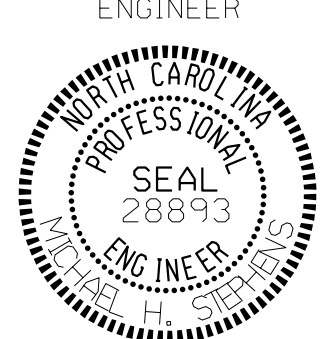


GEOTECHNICAL ENGINEER

ENGINEER

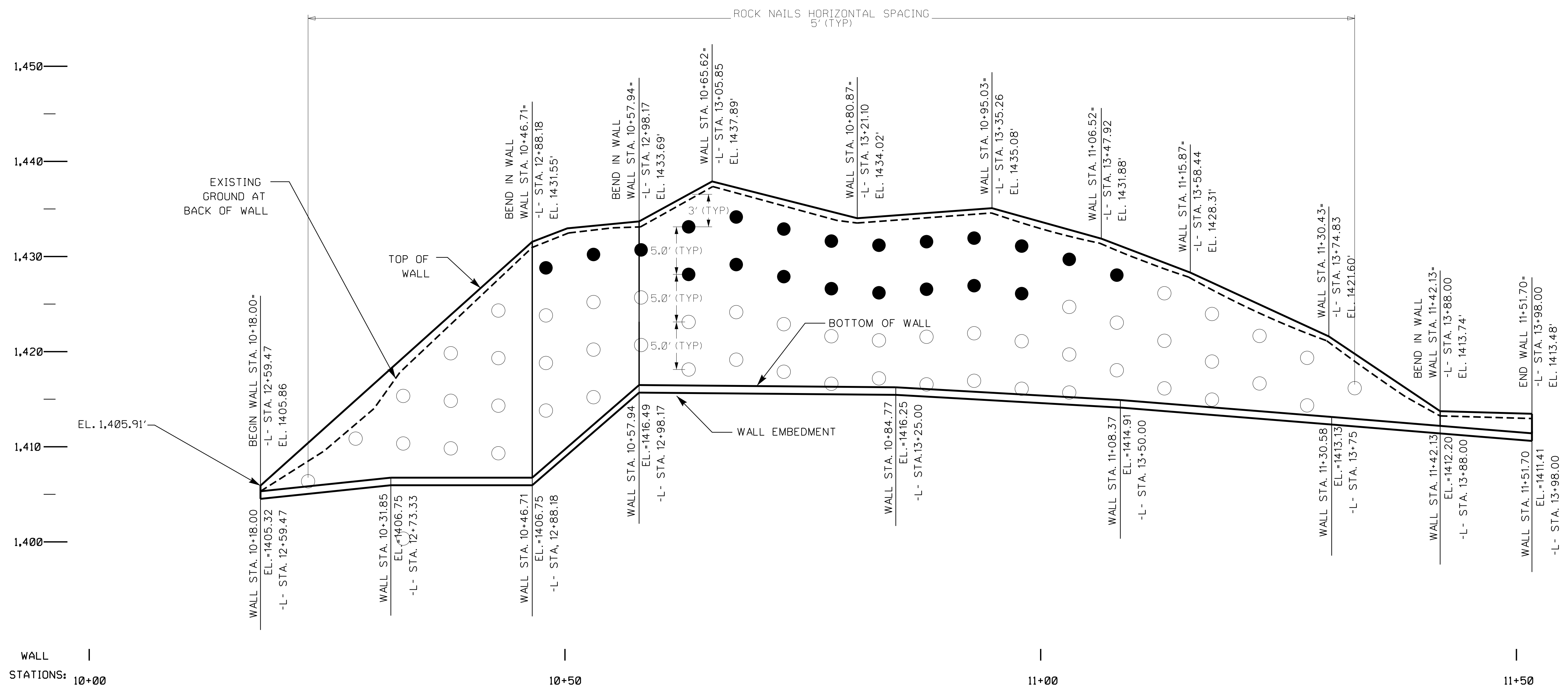


Seal No. 28893
Michael H. Stiefel

DocuSigned by: *Michael H. Stiefel* 11/15/2023

SIGNATURE DATE SIGNATURE DATE

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



WALL STATIONS: 10+00

ROCK NAIL SCHEDULE

- INDICATES 20' NAIL (21)
- INDICATES 15' NAIL (50)

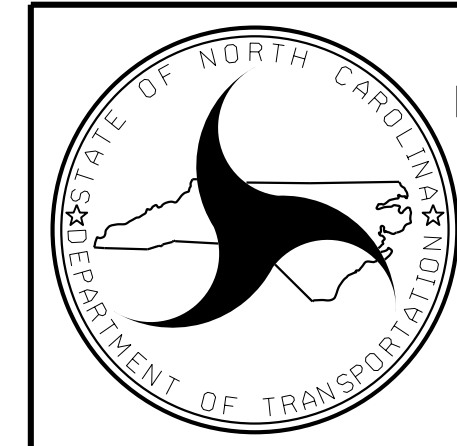
WALL ELEVATION

VIEWING FRONT FACE OF WALL, UNFOLDED

| ESTIMATED ROCK WALL QUANTITIES | | | |
|---|--|------------------------------|-----------------------|
| ROCK NAIL RETAINING WALLS (SQUARE FEET) | ARCHITECTURAL CONCRETE SURFACE TREATMENT (SQUARE FEET) | ROCK NAIL VERIFICATION TESTS | ROCK NAIL PROOF TESTS |
| 2,030 | 2,030 | 2 | 4 |

- DESIGN TEST LOAD (DTL) FOR ROCK NAILS = 20 KIPS
- BONDED LENGTH FOR TEST NAILS WILL DEPEND ON THE DIAMETER OF THE DRILLED HOLE, CONTRACTOR TO PROVIDE LOAD TEST SCHEDULE INDICATING LOCATION AND BOND LENGTHS OF TEST NAILS.
- PERFORM LOAD TESTS IN ACCORDANCE WITH THE SPECIAL PROVISION.

| | |
|-------------------|-------------|
| PREPARED BY: BMHS | DATE: 11/23 |
| REVIEWED BY: SSC | DATE: 11/23 |



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

PROJECT NO. 14SP.20441.2 (SF-430174)
HAYWOOD COUNTY
STATION: -L- 12+59.5
SHEET 2 OF 4

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

ROCK NAIL WALL
BRIDGE NO. 174 ON
WATERVILLE ROAD OVER
BIG CREEK

SHEET NO. W-2