

FRONT SLOPE WALL EMBEDMENT

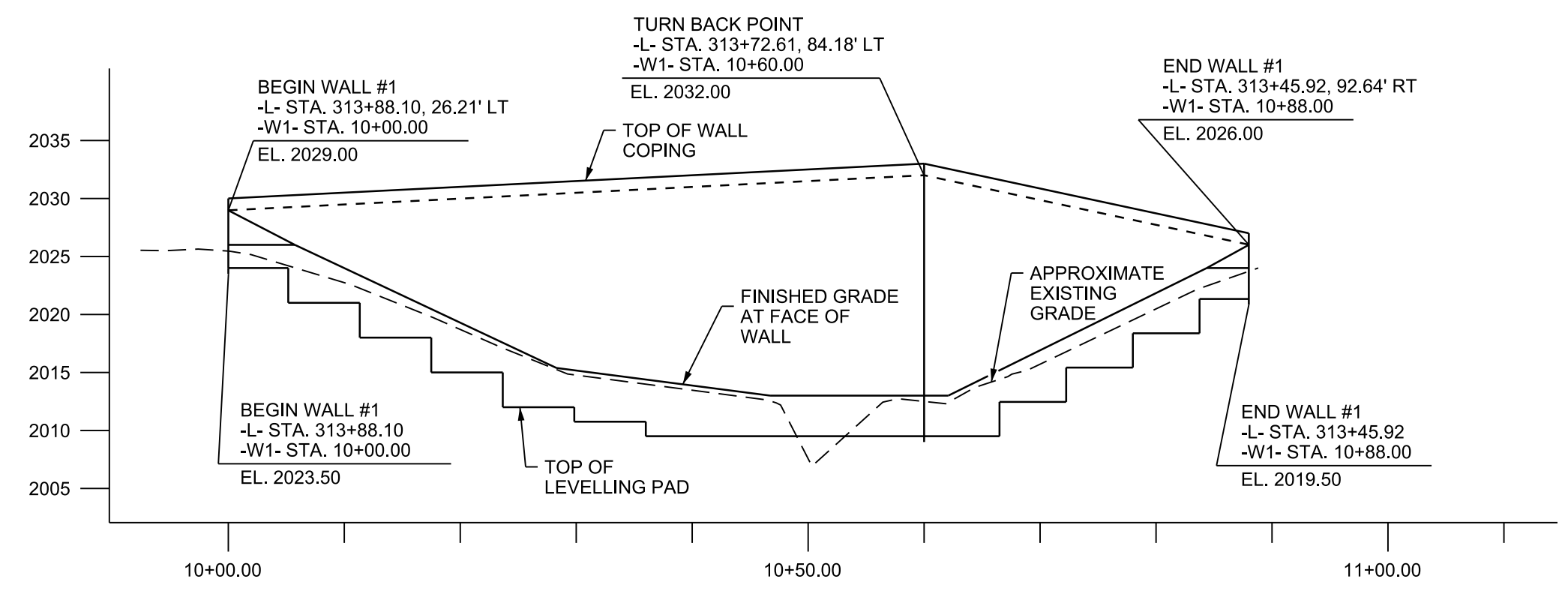
| SLOPE IN FRONT OF STRUCTURES | | MINIMUM EMBEDMENT DEPTH |
|------------------------------|---------------|-------------------------|
| HORIZONTAL | FOR WALLS | H/20 |
| | FOR ABUTMENTS | H/10 |
| 3.0H:1.0V | WALLS | H/10 |
| 2.5H:1.0V | WALLS | H/8.5 |
| 2.0H:1.0V | WALLS | H/7 |
| 1.5H:1.0V | WALLS | H/5 |
| 1.25H:1.0V | WALLS | H/4 |
| 1.0H:1.0V | WALLS | H/3 |

NOTE:
1) MAINTAIN A MINIMUM BENCH WIDTH OF 4.0 IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH.
2) MINIMUM EMBEDMENT DEPTH OF 2 FT. UNLESS LARGER DEPTHS DICTATED BY THE ABOVE TABLE.
3) MAXIMUM SLOPE OF 1H:1V WILL BE MAINTAINED ON FRONT SLOPES FOR THE ENTIRE LENGTH OF THE WALL.
4) SUBMITT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSES.

MSE RETAINING WALL QUANTITIES

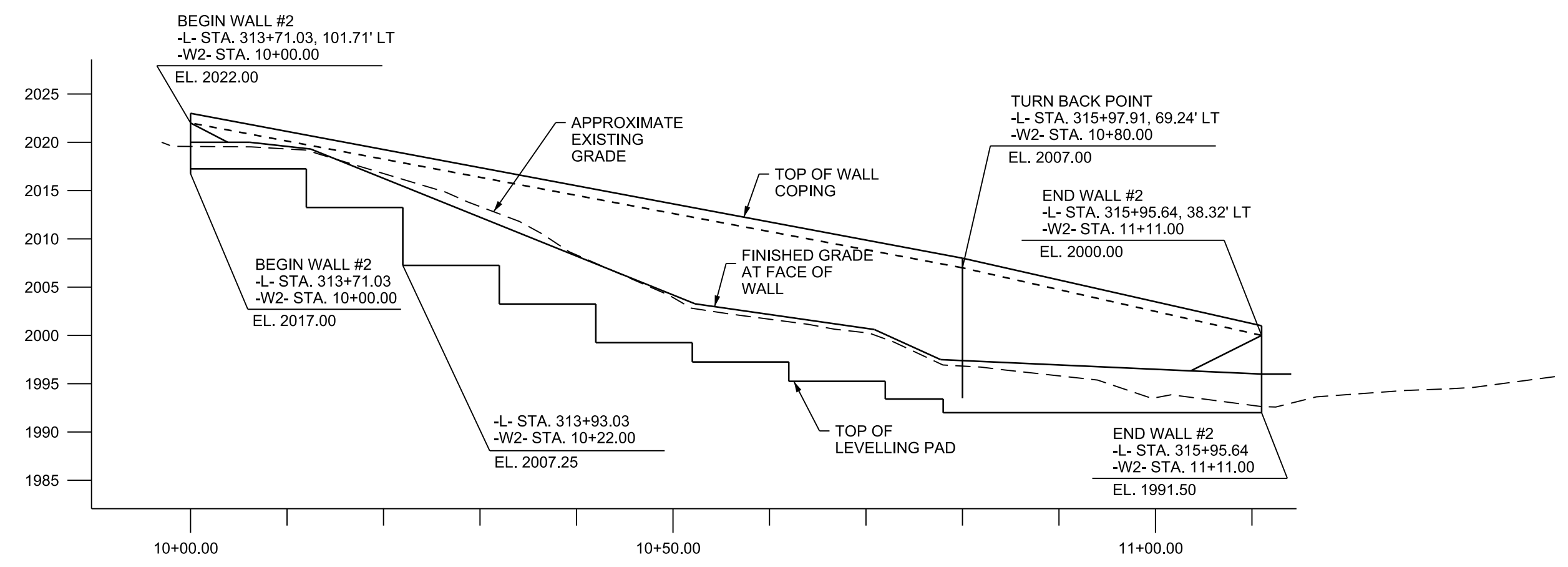
| RETAINING WALL NO. | WALL ID | AREA |
|----------------------|---------|--------------------|
| RETAINING WALL NO. 1 | -W1- | * 1486 SQUARE FEET |
| RETAINING WALL NO. 2 | -W2- | * 1321 SQUARE FEET |

* WALL AREA IS MEASURED USING THE DESIGN HEIGHT "H"



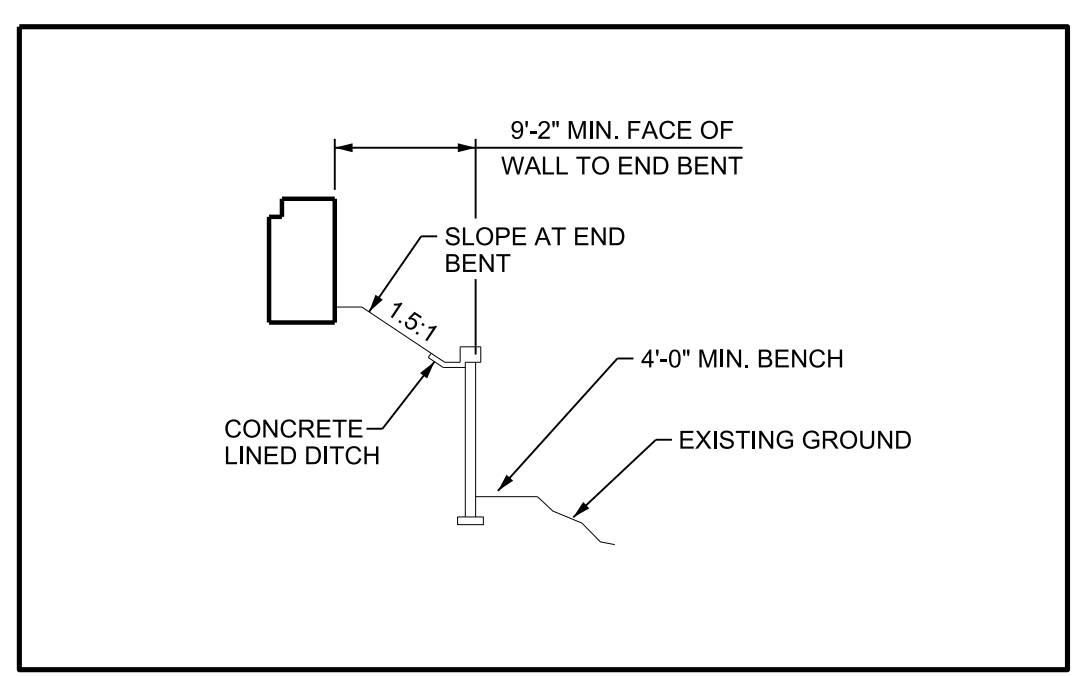
WALL ENVELOPE - RETAINING WALL NO. 1

NOTE:
1) OFFSET DIMENSIONS ARE FROM FACE OF WALL
2) THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF THE WALL

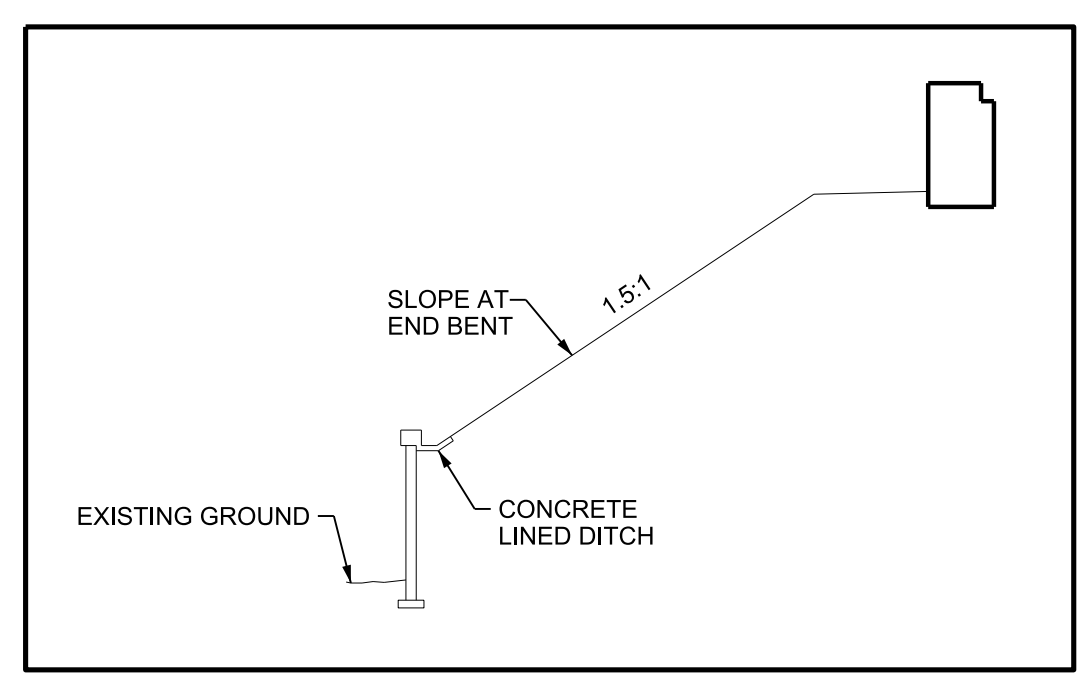


WALL ENVELOPE - RETAINING WALL NO. 2

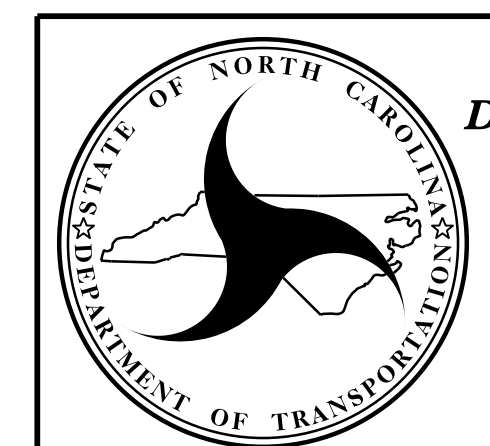
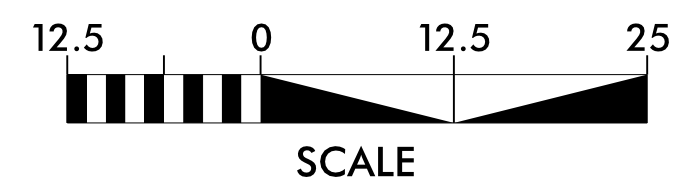
NOTE:
1) OFFSET DIMENSIONS ARE FROM FACE OF WALL
2) THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF THE WALL



TYPICAL SECTION OF WALL NO. 1



TYPICAL SECTION OF WALL NO. 2



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

PROJECT NO.: B-4442
BUNCOMBE COUNTY
STATION: 315+72.39 -L-
SHEET 1 OF 4 WALL ID RW-1-2

RETAINING WALL NOS. 1 AND 2
MSE RETAINING WALL

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