

NOTES:

- 1) FOR STANDARD CAST-IN-PLACE (CIP) CANTILEVER RETAINING WALLS, SEE CAST-IN-PLACE CANTILEVER RETAINING WALL SPECIAL PROVISION.
- 2) FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- 3) FOR FENCES OR HANDRAILS ON TOP OF THE WALLS, SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.
- 4) DRAIN PIPES ARE REQUIRED FOR RETAINING WALL NO.1.
- 5) FOR SUBSURFACE DRAINAGE AT WEEP HOLES, SEE ARTICLE 414-8 OF THE STANDARD SPECIFICATIONS.
- 6) STANDARD DESIGN OF THE CIP RETAINING WALLS IS BASED ON THE FOLLOWING PARAMETERS:
- A) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 6,250 LBS/SF FOR RETAINING WALL NO.1.
- B) MINIMUM EMBEDMENT ELEVATION FOR RETAINING WALL NO.1 IS 1,419.5 FT. (LT),1,418.0 FT (CT),1,417.0 FT (RT).

C) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (Y) PCF	FRICTION ANGLE (Ф) DEGREES	COHESION (c) LB/SF
BACKFILL	120	28	0
FOUNDATION	120	26	0

- 7) DESIGN RETAINING WALL NO.1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE OF 250 LBS./SF.
- 8) DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NO.1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIALS ARE APPROVED.
- 9) AT THE CONTRACTOR'S OPTION, TEMPORARY SHORING FOR WALL CONSTRUCTION MAY BE USED TO CONSTRUCT RETAINING WALL NO.1. SEE CANTILEVER RETAINING WALL SPECIAL PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.

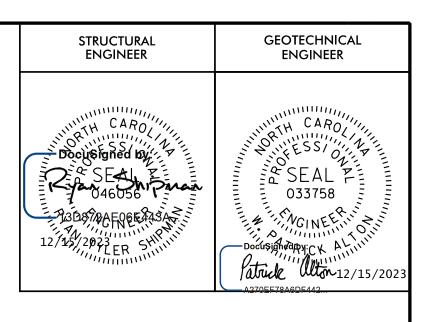
10) FOOTING SHALL BE EMBEDDED 1'-O"MIN. IN SOLID ROCK.

TOTAL STRUCTURE QUANTITIES

* CLASS 'A' CONCRETE	48.2	СҮ
* REINFORCING STEEL	6,697	LBS.
*4″Ø PERFORATED SCHEDULE 40 PVC DRAINAGE PIPE	26.0	LF.
4″Ø SCHEDULE 40 PVC OUTLET PIPE	13.25	LF.
GEOTEXTILE	44.0	SY.
* #78m stone backfill	41.0	TONS

* QUANTITIES ARE FOR INFORMATION ONLY, WALL SHALL BE PAID FOR BY SQUARE FOOT.





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RETAINING WALL NO.1 ELEVATIONS

-L- STA	WALL STATIONS	OFFSET FROM (L-L- (RIGHT)	ELEV @ Top of Wall	BOTTOM OF FOOTING ELEVATION
12+19.01	10+00.00	23.80	1435.04	1419.5
12+28.97	10+08.50	24.69	1434.70	1418.0
12+39.03	10+17.00	25.05	1434.37	1417.0
12+49.10	10+25.50	24.88	1434.04	1417.0

CAST-IN-PLACE CANTILEVER RETAINING WALL NO.1 348 SQ.FT. PROJECT NO. 145P.20441.1 HAYWOOD COUNTY STATION: 13+33.99 -L-SHEET 1 OF 4 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH RETAINING WALL NO.1 DETAILS Johnson, Mirmiran, & Thompson Inc. 1318-F Patton Ave. Asheville, NC, 28806 License No: C-3097 REVISIONS SHEET NO RW1-1 DWN. BY: AW DATE: 02/18 . BY: DATE: NO. BY: DATE: CHKD.BY: HLW DATE: 02/18 TOTAL SHEETS DES.EGR. OF RECORD: RTS DATE: 02/18