

LOCATION SKETCH

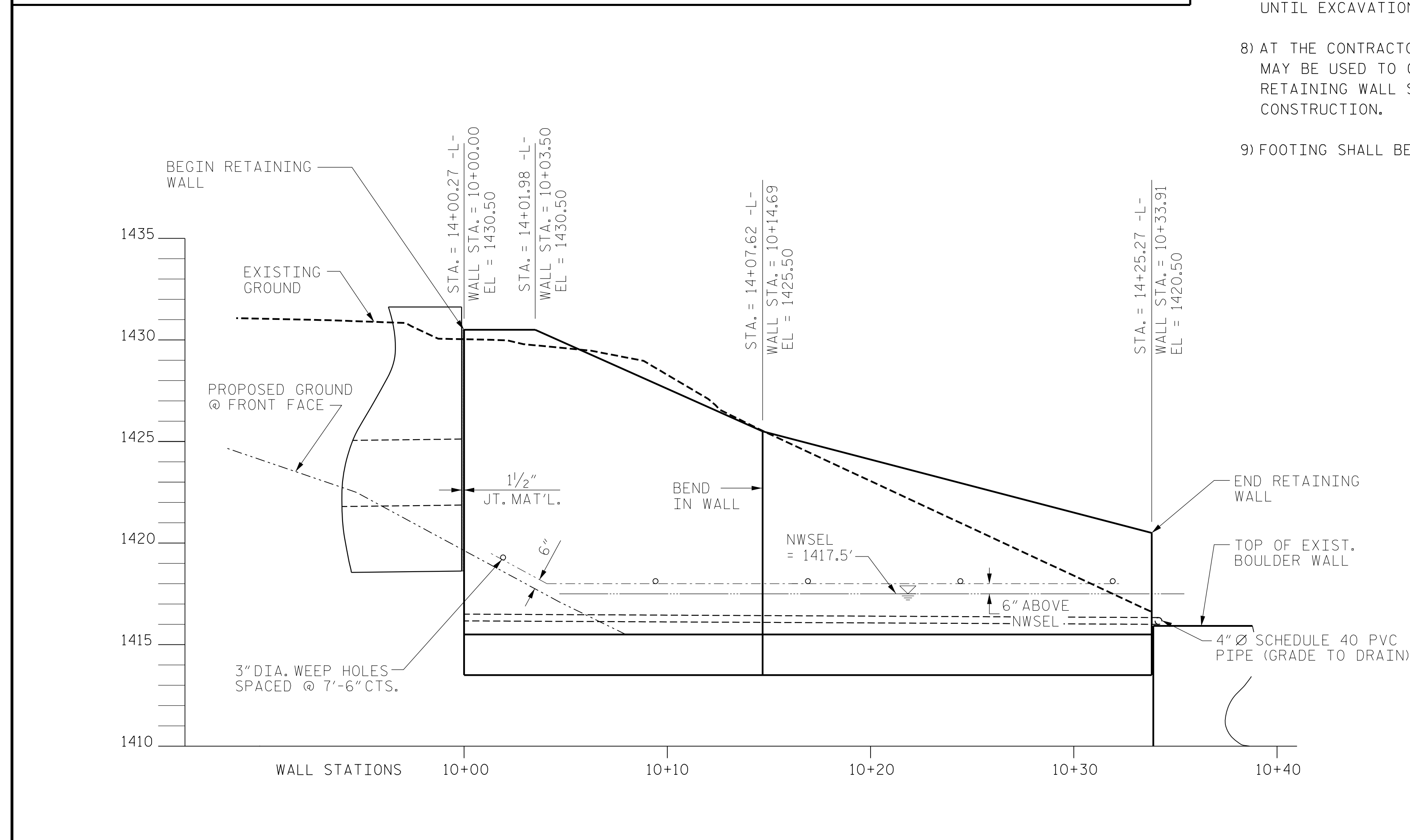
NOTES:

- 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. 2.
- 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 = 7,600 LBS/SF FOR RETAINING WALL NO. 2.
 - B) MINIMUM EMBEDMENT ELEVATION FOR RETAINING WALL NO. 2 IS 1,413.5 FT.
 - C) IN-SITU ASSUMED MATERIAL PARAMETERS:

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

- 7) DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NO. 2 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIALS ARE APPROVED.
- 8) AT THE CONTRACTOR'S OPTION, TEMPORARY SHORING FOR WALL CONSTRUCTION MAY BE USED TO CONSTRUCT RETAINING WALL NO. 2. SEE CANTILEVER RETAINING WALL SPECIAL PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.
- 9) FOOTING SHALL BE EMBEDDED 1'-0" MIN. IN SOLID ROCK.

-L- STA	WALL STATION	OFFSET FROM CL (LEFT)	ELEV @ TOP OF WALL	BOTTOM OF FOOTING ELEVATION
14+00.27	10+00.00	18.33'	1430.50	1413.25
14+01.98	10+03.50	21.29'	1430.50	1413.25
14+07.62	10+14.69	31.05'	1425.50	1413.25
14+25.27	10+33.83	38.46'	1420.50	1413.25



RETAINING WALL NO. 2 PROFILE
VIEWING BACK FACE OF WALL

* CLASS 'A' CONCRETE	53.1	CY
* REINFORCING STEEL	8,439	LBS.
* 4" Ø PERFORATED SCHEDULE 40 PVC DRAINAGE PIPE	32.9	LF.
4" Ø SCHEDULE 40 PVC OUTLET PIPE	2.5	LF.
* GEOTEXTILE	38.0	SY.
* #78M STONE BACKFILL	37.0	TONS

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

STRUCTURAL ENGINEER 	GEOTECHNICAL ENGINEER
-------------------------	---------------------------

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CAST-IN-PLACE CANTILEVER RETAINING WALL NO. 2
319 SQ. FT.

PROJECT NO. 14SP.20441.1
HAYWOOD COUNTY
STATION: 13+33.99 -L-
SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**RETAINING WALL NO. 2
DETAILS**

JMT Johnson, Mirmiran, & Thompson Inc.
1318-F Patton Ave.
Asheville, NC, 28806
License No: C-3097

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	RW2-1	
1			3			TOTAL SHEETS	9
2			4				

DWN. BY: AW
CHKD. BY: HLW
DES. EGR. OF RECORD: RTS

DATE: 01/18
DATE: 01/18
DATE: 01/18