

**SOLDIER PILE WALL WITH PRECAST PANEL - TYPICAL SECTIONS**

AT THE CONTRACTOR'S OPTION, CONNECT COPING TO PANELS WITH DOWELS OR EXTEND COPING DOWN BACK OF PANELS AND PILES.  
 \*SEE CONCRETE DITCH BEHIND WALL DETAILS.  
 \*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

**SOLDIER PILE WALL WITH CIP FACE - TYPICAL SECTION**

\*SEE CONCRETE DITCH BEHIND WALL DETAILS.  
 \*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

**NOTES:**

- FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- A FENCE OR HANDRAIL IS REQUIRED ON TOP OF RETAINING WALL NO. 1. SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.
- USE A SOLDIER PILE RETAINING WALL WITH PRECAST CONCRETE PANELS THAT MEET SECTION 1077 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO. 1.
- A SCULPTED SHOTCRETE FINISH IS REQUIRED FOR PRECAST CONCRETE PANELS OR THE CIP REINFORCED CONCRETE FACE FOR RETAINING WALL NO. 1.
- BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO. 1, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.
- DESIGN RETAINING WALL NO. 1 FOR THE FOLLOWING:
  - 1) DESIGN HEIGHT (H) = WALL HEIGHT + WALL EMBEDMENT
  - 2) DESIGN LIFE = 100 YEARS
  - 3) IN-SITU ASSUMED MATERIAL PARAMETERS:
    - UNIT WEIGHT,  $\gamma = 120$  PCF
    - FRICITION ANGLE,  $\phi = 28$  DEGREES
    - COHESION,  $c = 0$  PSF
- DESIGN RETAINING WALL NO. 1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

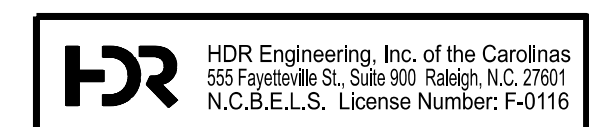
PROJECT NO. **R-5600**  
**JACKSON** COUNTY  
 STATION: **10+00.00 -WALL 1-**

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SOLDIER PILE WALL  
 DETAILS AND NOTES  
 WALL 1**



DES BY: P. ZHANG	DATE: 02/25	DWG BY: B. PETERSON	DATE: 02/25
DES CHK: A. VARRI	DATE: 03/25	CHK BY: P. ZHANG	DATE: 03/25



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	W-45
1	--	--	3	--	--	TOTAL SHEETS
2	--	--	4	--	--	46