SHEET NO.

PROJECT REFERENCE NO.

H-PILE FLANGE (TYP) ——→ H-PILE WEB — REMOVE PORTION OF H-PILE WEB — - H-PILE FLANGE (TYP) H-PILE WEB AND FLANGE FOR GROUND ANCHOR 1/2" THROUGH PILE CUT HOLE DIA. (GROUND ANCHOR NOT 6¹/₂″MAX* SHOWN FOR CLARITY) FRONT VIEW SECTION A-A –12″STEEL H-PILE* — 3/4" THICK STEEL PLATE (TYP) SIDE VIEW FRONT VIEW

REINFORCED WEB DETAILS

 $-\frac{3}{4}$ "THICK STEEL PLATE

*DETAILS SHOWN ARE FOR 12"H-PILES WITH 6"DIA. GROUND ANCHORS. FOR DIFFERENT DIAMETER ANCHORS, SUBMIT ALTERNATE REINFORCED WEB DETAILS FOR ACCEPTANCE.

NOTES:

FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.

FOR ANCHORED RETAINING WALLS, SEE ANCHORED RETAINING WALLS PROVISION.

ANCHORED WALLS ARE ANTICIPATED FROM WALL STATION 31+75 TO STATION 35+50 AND STATION 41+50 TO STATION 44+60.

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.

A FENCE OR HANDRAIL IS REQUIRED ON TOP OF RETAINING WALL NO. 4. SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.

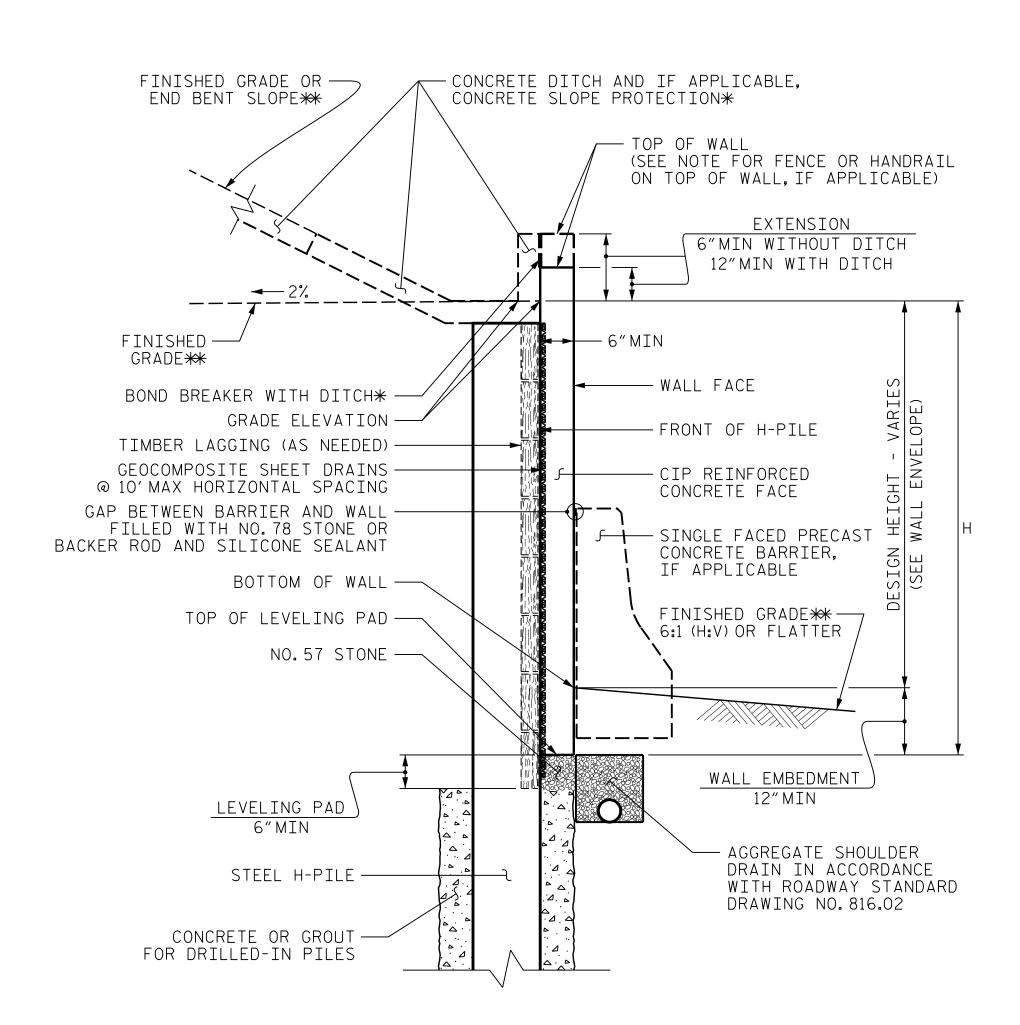
DRILLED-IN H-PILES ARE REQUIRED FOR RETAINING WALL NO.4. THERE IS THE POTENTIAL FOR SHALLOW WEATHERED ROCK/CRYSTALLINE ROCK AT SOME LOCATIONS AND DRILLED-IN PILES MAY BE REQUIRED.

USE A SOLDIER PILE RETAINING WALL WITH A CIP REINFORCED CONCRETE FACE FOR RETAINING WALL

BEFORE BEGINNING SOLDIER PILE WALL AND ANCHORED WALL, IF NECESSARY, DESIGN FOR RETAINING WALL NO. 4, 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. 4 FOR THE FOLLOWING: 1) H = DESIGN HEIGHT + WALL EMBEDMENT 2) DESIGN LIFE = 100 YEARS 3) IN-SITU AND FILL ASSUMED MATERIAL PARAMETERS: UNIT WEIGHT, γ = 120 PCF FRICTION ANGLE, ϕ = 30 DEGREES COHESION, c = 0 PSF

DESIGN RETAINING WALL NO.4 FOR PIPES EXTENDING UNDER OR THROUGH THE WALL AS SHOWN. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING SOLDIER PILE WALL DESIGN OR CONSTRUCTION.



SOLDIER PILE WALL WITH CIP FACE - TYPICAL SECTION

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

RETAINING WALL NO. 4