



**UNLESS ALL SIGNATURES COMPLETED** 

DRAIN INCLINATION ANGLE (TYP) (SEE NOTE 1)

RETAINING WALL HORIZONTAL DRAIN

SLOPE FACE DRILL HOLE LENGTH (SEE NOTE 1) PVC DRAIN PIPE, SCHEDULE 40 OR 80 -(SEE NOTE 2)-SLOTTED PVC SECTION = DRAIN PIPE LENGTH REQUIRED - 10' - EXTENSION SEAL ALL AROUND DRAIN PIPE WITH A METHOD ACCEPTABLE TO THE ENGINEER SOLID PVC SECTION = 10' SOLID PVC EXTENSION\* SLOPE FACE — - HORIZONTAL DRAIN SLOPE HORIZONTAL DRAIN \*EXTEND SOLID PVC SECTION TO CONNECT PIPE TO A -GRADE FOR HORIZONTAL DRAIN

- WELDED WIRE REINFORCEMENT (WWR) 4" THICK — CONCRETE DITCH\*  $6 \times 6 - W1.4 \times W1.4$ — BOND BREAKER TOP OF WALL - PERMITTED CONST. JOINT WITH WWR FINISHED — GRADE\* CIP CONCRETE FACING 0" - 24"<del>\*</del> ELEVATION\*\*

- PIPE END CAP

## EXAMPLE CROSS-SECTION WITH SLOPE HORIZONTAL DRAIN \*SEE NOTE 1 FOR DRAIN ELEVATIONS ABOVE (OR BELOW) GRADE

(TOE OF SLOPE)

-ELEVATION ABOVE GRADE\*

## CONCRETE DITCH BEHIND WALL WITH CONCRETE FACING

\*\*SEE ROADWAY PLANS FOR CONCRETE DITCH AND FINISHED GRADE DETAILS.

\*\*\*SEE WALL ENVELOPE FOR GRADE ELEVATIONS.

## PROJECT NO.: A-0009CB

GRAHAM COUNTY

RETAINING WALL #42: -L- 382+30, 59.5' RT TO 383+50, 65.6' RT

SHEET 3 OF 3

Prepared in the Office of:





**GEOTECHNICAL** ENGINEERING UNIT

NORTH CAROLINA

RETAINING WALL #42 SOIL NAIL RETAINING WALL WITH CAST-IN-PLACE CONCRETE FACE

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## NOTES:

REVIEWED BY: M. BREWER

I. SEE ROADWAY SUMMARY SHEETS FOR APPROXIMATE KNOWN HORIZONTAL DRAIN LOCATIONS, ELEVATIONS, INCLINATION AND LENGTHS. ADDITIONAL DRAINS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

DRAINAGE SYSTEM OR DISCHARGE WATER AS DIRECTED

- 2. DRAIN PIPES MAY BE OMITTED FOR SOME HORIZONTAL DRAINS. SEE ROADWAY SUMMARY SHEETS FOR DRAIN PIPE REQUIREMENTS INCLUDING THOSE DRAINS WITHOUT PIPES.
- 3. FOR HORIZONTAL DRAINS, SEE HORIZONTAL DRAINS SPECIAL PROVISION (GT-12).

DATE: 7/14/2022

PREPARED BY: R. KRAL DATE: 7/14/2022