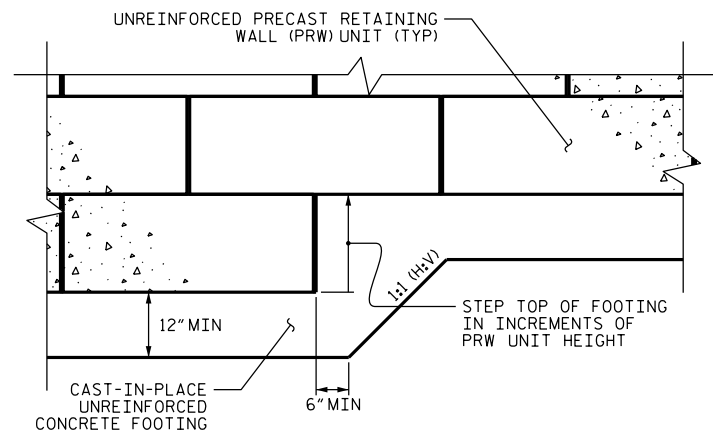


PRECAST GRAVITY WALL - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



FOOTING STEP DETAIL

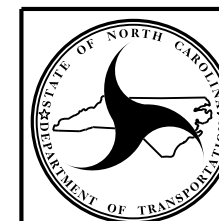
NOTES:

- FOR PRECAST GRAVITY RETAINING WALLS, SEE PRECAST GRAVITY RETAINING WALLS PROVISION.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.
- A CONCRETE BARRIER RAIL WITH MOMENT SLAB IS REQUIRED ABOVE RETAINING WALL NO. . SEE PLANS FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS.
- USE PRW UNITS WITH A _____ FACE FOR RETAINING WALL NO. .
- USE PRW UNITS WITH A _____ COLOR FOR RETAINING WALL NO. .
- A DRAIN PIPE IS OR IS NOT REQUIRED FOR RETAINING WALL NO. .
- BEFORE BEGINNING PRECAST GRAVITY WALL DESIGN FOR RETAINING WALL NO. , 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. FOR WALL HEIGHTS EQUAL TO THE DESIGN HEIGHT PLUS DEPTH TO TOP OF FOOTING (DIFFERENCE BETWEEN GRADE ELEVATION AND TOP OF FOOTING ELEVATION).
- DESIGN RETAINING WALL NO. FOR THE FOLLOWING:
 - 1) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = ___ LB/SF
 - 2) MINIMUM EMBEDMENT ELEVATION = ___ FT
 - 3) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) LB/SF
BACKFILL	---	---	---
FOUNDATION	---	---	---

- THE MINIMUM EMBEDMENT ELEVATION FOR RETAINING WALL NO. INCLUDES EMBEDMENT FOR SCOUR.
- DESIGN RETAINING WALL NO. FOR A LIVE LOAD (TRAFFIC) SURCHARGE.
- DESIGN RETAINING WALL NO. FOR THE POINT, LINE OR STRIP SURCHARGE LOAD SHOWN.
- DESIGN RETAINING WALL NO. FOR A PIPE EXTENDING THROUGH THE WALL AS SHOWN. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING PRECAST GRAVITY WALL DESIGN OR CONSTRUCTION.
- DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NO. UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- TEMPORARY SHORING IS OR MAY BE REQUIRED FOR RETAINING WALL NO. IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE ROADWAY, STRUCTURE OR TRAFFIC CONTROL PLANS.
- AT THE CONTRACTOR'S OPTION, TEMPORARY SHORING FOR WALL CONSTRUCTION MAY BE USED TO CONSTRUCT RETAINING WALL NO. . SEE PRECAST GRAVITY RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**GEOTECHNICAL
ENGINEERING UNIT**

STD CELL Wall_PrecastGravity_Slope

PRECAST GRAVITY WALL
WITH BACK SLOPE - TYPICAL,
NOTES & FOOTING STEP DETAIL

DATE: 5-16-17