



## SEGMENTAL GRAVITY WALL -W2- TYPICAL SECTION

## NOTES:

FOR SEGMENTAL GRAVITY RETAINING WALLS, SEE SECTION 454 OF THE STANDARD SPECIFICATIONS. FREEZE-THAW DURABLE SRW UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS ARE REQUIRED. SUBMIT A SAMPLE OF THE SRW UNIT FOR THE RETAINING WALLS TO THE DIVISION ENGINEER FOR APPROVAL. USE SRW UNITS WITH A WHITE NEUTRAL CONCRETE COLOR FOR RETAINING WALLS. A DRAIN PIPE IS REQUIRED FOR RETAINING WALLS. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN OR CONSTRUCTION.

BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN FOR RETAINING WALLS, 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 WALLS 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 -W1- FOR THE FOLLOWING:

1) MAXIMUM FACTORED VERTICAL STRESS ON FOUNDATION MATERIAL = 2,000 LB/SF. THIS ASSUMES ANY FILL OR SOFT SOILS, IF ENCOUNTERED, WILL BE UNDERCUT AND REPLACED. 2) MAXIMUM COEFFICIENT OF FRICTION = 0.35

3) GROUNDWATER WAS NOT ENCOUNTERED IN THE BORING

TERMINATION DEPTHS.

4) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT & LB/CF	FRICTION ANGLE	COHESION (c)LB/SF
BACKFILL	120	30	0
FOUNDATION	120	28	0

IGNORE PASSIVE EARTH PRESSURES IN THE UPPER 18 INCHES OF RETAINING WALLS -W1- AND -W2-. DESIGN RETAINING WALL -W1- FOR A LIVE LOAD SURCHARGE OF 250 PSF. DO NOT PLACE NO. 57 STONE FOR FOOTINGS FOR RETAINING WALLS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APROVED. FOR PROPOSED FENCE DETAILS, SEE SPECIAL PROVISION.

DESIGN RETAINING WALL -W2- FOR THE FOLLOWING: 1) MAXIMUM FACTORED VERTICAL STRESS ON FOUNDATION MATERIAL

= 2,500 LB/SF. THIS ASSUMES ANY FILL OR SOFT SOILS,

IF ENCOUNTERED, WILL BE UNDERCUT AND REPLACED. 2) MAXIMUM COEFFICIENT OF FRICTION = 0.35

3) GROUNDWATER WAS NOT ENCOUNTERED IN THE BORING TERMINATION DEPTHS.

4) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT & LB/CF	FRICTION ANGLE	COHESION (c)LB/SF
BACKFILL	120	30	0
FOUNDATION	120	28	0