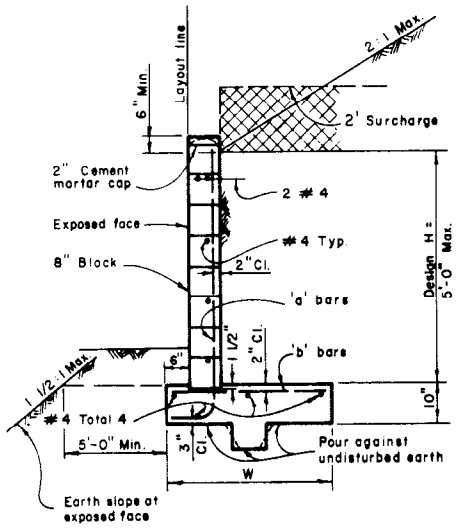
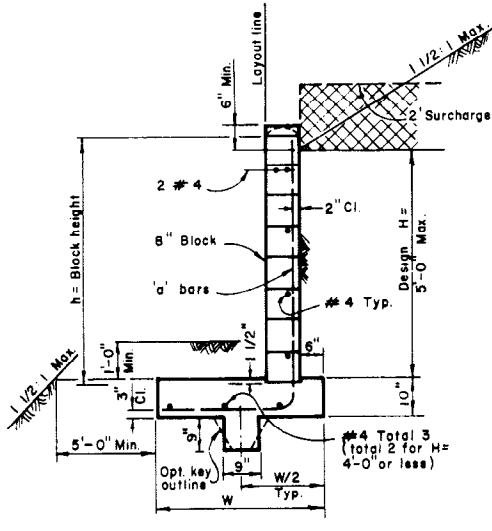


Design H	4'-0"	5'-0"
W	3'-0"	3'-6"
a Bars	#4 at 16	#5 at 16
b Bars	#4 at 18	#4 at 18
Toe Pressure*	1300 psf	1600 psf

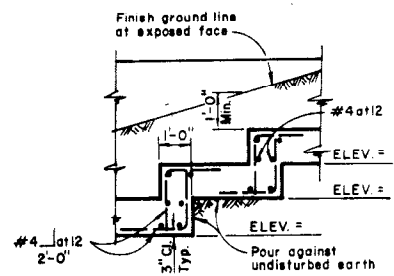
* For Type 2-A,B walls max. toe pressure is 1750 psf.



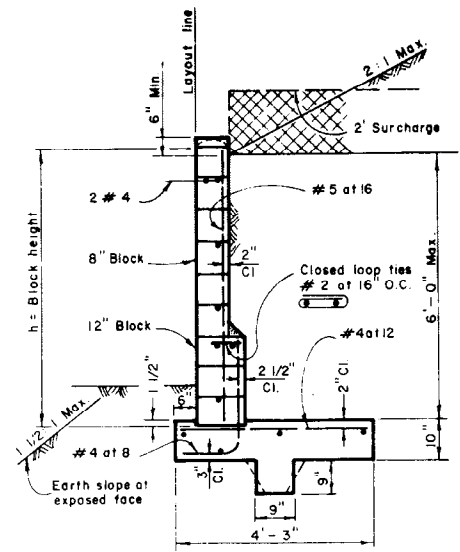
TYPE I-A



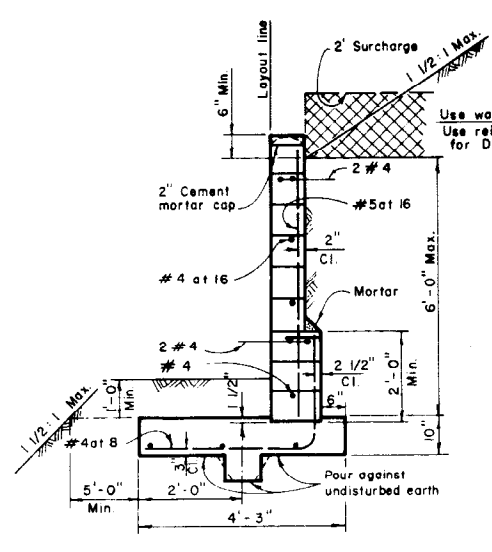
TYPE I-B



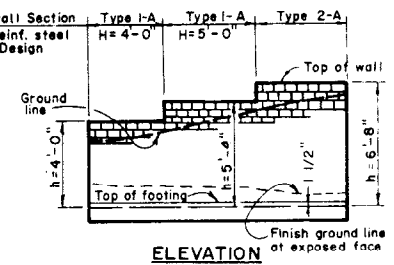
FOOTING STEP DETAIL



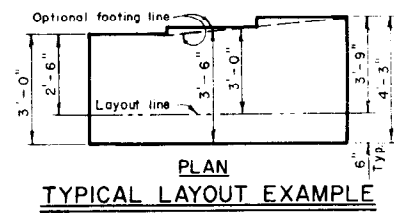
TYPE 2-A



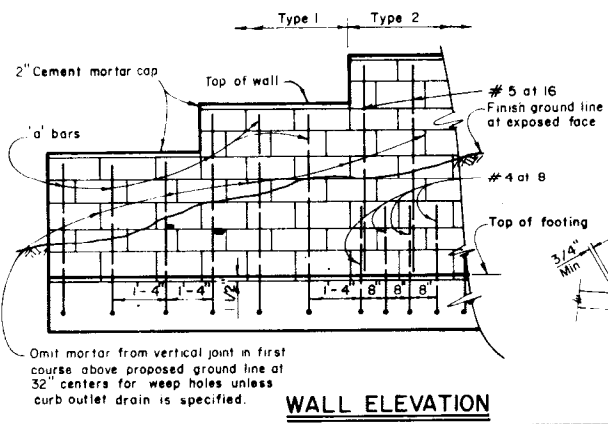
TYPE 2-B



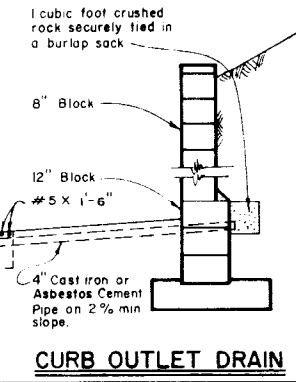
ELEVATION



PLAN TYPICAL LAYOUT EXAMPLE



WALL ELEVATION



CURB OUTLET DRAIN

NOTES

1. Data for Type I-A,B and Type 2-A,B walls are similar.
2. Reinforcing steel shall be lapped 40 diameters.
3. The inspector shall verify that the foundation material is as noted on the drawing. If other than shown, the inspector shall notify the "Bridge and Structural Design Division".
4. Ponding or jetting of backfill will not be permitted.
5. Walls shall not be backfilled until the grout has obtained a strength of 2,000 p.s.i. in compression.
6. All cells shall be filled solid with grout.
7. Key may be omitted for walls (Design H) less than 3'-0".

DEPARTMENT OF PUBLIC WORKS

CONCRETE BLOCK RETAINING WALL (H=6'-0" MAX.)

DESIGNED BY
G. ESQUER

DRAWN BY
G. ESQUER

CHECKED BY
E. PITKIN

BUREAU OF ENGINEERING

SUBMITTED July 12 1968

APPROVED July 16 1968

BY John O. Lemona
ENGINEER BRIDGE & STRUCTURAL DIVISION

DEPUTY CITY ENGINEER

PREPARED BY Paul R. Harvey
ENGINEER OPENING & WIDENING DIVISION

CITY ENGINEER

CITY OF LOS ANGELES

STANDARD PLAN

B-3761

SHEET 1 OF 2 SHEETS

NOTES TO DESIGNER

1. THE USE OF THIS STANDARD PLAN IS LIMITED TO WALLS OF DESIGN H OF 6 FEET OR LESS.
2. SPECIAL FOOTING DESIGN IS REQUIRED WHERE FOUNDATION MATERIAL IS INCAPABLE OF SUPPORTING TOE PRESSURE LOADS LISTED IN TABLE.
3. THE MAXIMUM TOE PRESSURE LOAD SHALL NOT EXCEED THAT ALLOWED BY THE CITY OF LOS ANGELES BUILDING CODE FOR THE TYPE OF FOUNDATION MATERIAL EXCEPT AS PROVIDED FOR BY A SPECIAL FOUNDATION INVESTIGATION.
4. THE TYPE OF FOUNDATION MATERIAL SHALL BE NOTED ON THE PLANS.
5. THE MAXIMUM HEIGHT OF FOOTING STEPS SHALL BE LIMITED TO ONE-THIRD (1/3) THE HEIGHT OF THE SHORTER ADJACENT WALL SECTION. THE LOCATION OF FOOTING STEPS SHALL BE SHOWN IN THE PLANS.
6. WALL FOOTINGS SHALL BE LEVEL BETWEEN FOOTING STEPS.
7. A BARRICADE FOR THE PROTECTION OF PEDESTRIANS SHALL BE SHOWN ON THE PLANS, WHENEVER THE WALL SUPPORTS A PEDESTRIAN WALKWAY WHICH IS MORE THAN THREE FEET ABOVE THE ADJACENT GROUND.
8. WHERE VEHICULAR TRAFFIC IS ADJACENT TO THE TOP OF WALL, GUARD RAILS SHALL BE SHOWN ON THE PLANS AND SHALL BE SET BACK AT LEAST TWO FEET FROM THE FACE OF THE WALL.
9. THE CURB OUTLET DRAIN SHALL BE SPECIFIED ON THE PLANS WHENEVER THE WEEPERS WOULD OTHERWISE DRAIN ON A PEDESTRIAN WALK. SPACING SHOULD NOT EXCEED 24 FEET ON CENTERS.

DESIGN DATA

STRESSES

CONCRETE	CONCRETE BLOCK MASONRY
$f_s = 20,000$ psi	$f_s = 20,000$ psi
$f_c = 1,200$ psi	$f_m = 400$ psi
$n = 10$	$n = 25$

LOADINGS

THE WALLS ARE DESIGNED TO RESIST THE FORCES CAUSED BY TWO CONDITIONS OF LOADING:

CONDITION 1: WALLS SUPPORTING PRIVATE PROPERTY.

EARTH WT = 100 pcf
 E.F.P. = 30 pcf FOR LEVEL SURCHARGE
 = 43 pcf FOR 2:1 SURCHARGE
 = 55 pcf FOR 1-1/2:1 SURCHARGE

A VERTICAL COMPONENT OF ONE-THIRD THE HORIZONTAL FORCE IS ASSUMED TO ACT AT THE PLANE OF APPLICATION OF THE HORIZONTAL FORCE.

CONDITION 2: WALLS SUPPORTING PUBLIC PROPERTY.

EARTH WT = 120 pcf
 E.F.P. = 36 pcf + 2' FEET SURCHARGE

A VERTICAL COMPONENT OF ONE-FOURTH THE HORIZONTAL FORCE IS ASSUMED TO ACT AT THE PLANE OF APPLICATION OF THE HORIZONTAL FORCE.

FOOTING RESULTANT

THE RESULTANT OF ALL VERTICAL AND LATERAL FORCES PASSES THROUGH THE MIDDLE ONE-THIRD OF THE FOOTING.

DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING CITY OF LOS ANGELES

CONCRETE BLOCK RETAINING WALL (H=6'-0" MAX.)

STANDARD PLAN

B-3761

DESIGNED BY
G ESQUER

SUBMITTED July 12 1968

APPROVED July 15 1968

DRAWN BY
L Q.

BY John D. Demons
ENGINEER BRIDGE & STRUCTURAL DIVISION

Paul J. King
DEPUTY CITY ENGINEER

CHECKED BY
E. L. PITKIN

PREPARED BY Arnold R. Blawie
ENGINEER OPENING & WIDENING DIVISION

Lyall G. Pardee
CITY ENGINEER

SHEET 2 OF 2 SHEETS