

MASONRY FENCES

2018 / 2021 IBC

Henderson
Building & Fire Safety Dept.
240 Water Street
Henderson, NV 89015
(702) 267-3650

Las Vegas
Department of Community Development
Building & Safety Division
495 S. Main St., Las Vegas, NV 89101
(702) 229-6251

REQUIRED INSPECTIONS: (SPECIAL INSPECTION - NONE REQUIRED)

1. FOUNDATION
2. MASONRY PREGROUT
3. FINAL

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE IBC 2018/2021 EDITION AS AMENDED
2. CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
 - A. CONCRETE MASONRY SHALL CONFORM TO ASTM C 90, $F'_m = 1500$ PSI MIN.
 - B. MORTAR: TYPE M - 2500 PSI OR TYPE S - 1800 PSI
 - C. GROUT CONFORMS TO ASTM C 476, MINIMUM 2000 PSI
3. THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE OF 4500 PSI, TYPE V CEMENT, AND 0.45 WATER TO CEMENT RATIO.
4. ALL REINFORCING STEEL SHALL BE GRADE 60, ASTM A615, MIN. LAP SPLICE = 24"
5. NO WATER COURSE OR NATURAL DRAINAGE SHALL BE OBSTRUCTED.
FOR RETAINING WALL, PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 2" DIAMETER WEEP HOLES THROUGH THE WALL AND LINED WITH PVC PIPE AT 8'-0" O.C. ALONG WALL AND PLACED 3" ABOVE THE LOWEST ADJACENT FINISHED GRADE
6. SITE PLAN SHALL BE SUBMITTED FOR REVIEW BEFORE THE PERMIT CAN BE ISSUED
7. CONTROL JOINT SPACING AT 24 FEET (MAX). VERTICAL REBARS SHALL BE LOCATED WITHIN 16 INCHES OF THE END.
8. GROUT ALL CELLS CONTAINING REINFORCEMENT. LOWER STEM IS SOLID GROUTED.
9. 3 INCHES COVER FOR ALL REBAR IN FOOTING (TYPICAL UNLESS NOTED OTHERWISE).
10. WATERPROOF THE INSIDE FACE OF ALL RETAINING WALLS PER 1805.3 OF 2018 / 2021 IBC.

DESIGN CRITERIA

2018 / 2021 IBC WITH CLV & COH AMENDMENTS

WIND LOAD

BASIC WIND SPEED = 95 MPH, EXPOSURE C

 $K_z = 0.85$ $K_e = 1.0$ $K_{zt} = 1.0$ $K_d = 0.85$ $C_f = 1.4$ $G = 0.85$

SEISMIC LOAD

DESIGN SPECTRAL RESPONSE $S_{ds} = 0.574g$ SEISMIC COEFFICIENTS $R = 1.25$ (ASCE 7-16, T-15.4-2) $C_s = 0.46$

SEISMIC LOAD DUE TO LATERAL EARTH PRESSURE

 $= 10.4h^2$ (LBS) THE POINT OF APPLICATION IS TAKEN

AT 0.6H ABOVE THE BASE OF THE WALL, WHERE H IS THE HEIGHT OF THE BACKFILL

SOIL PARAMETER

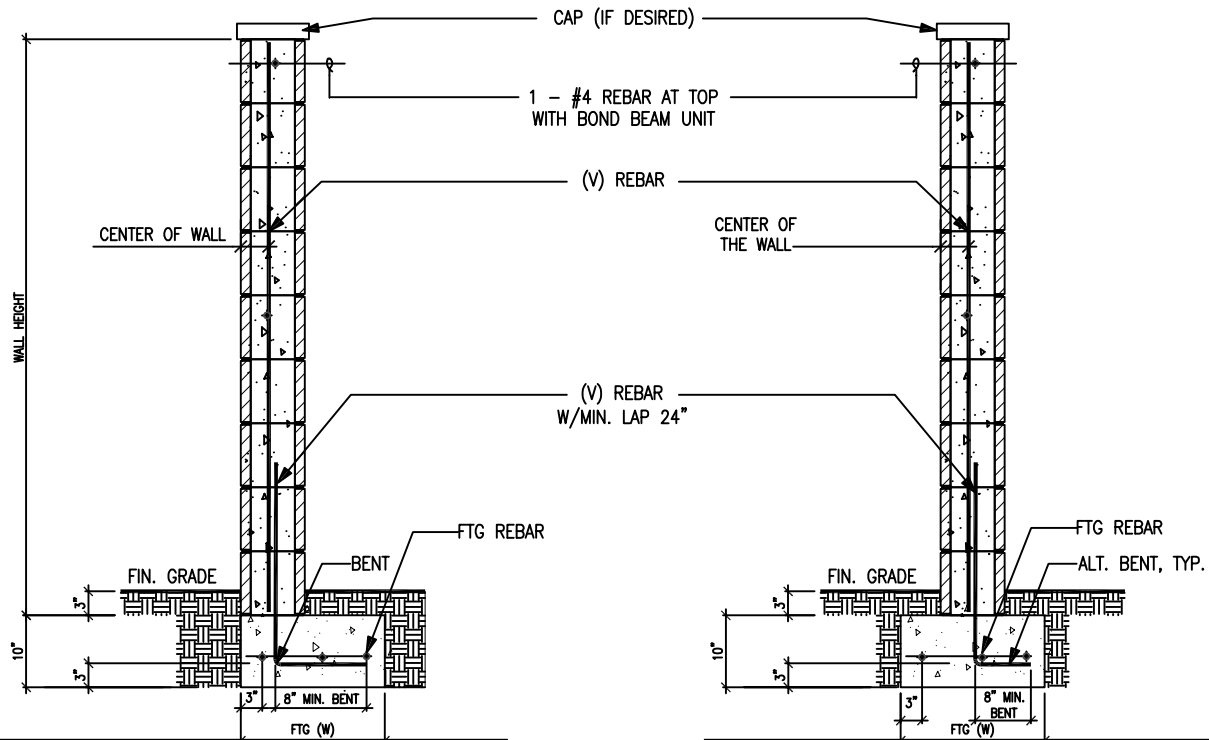
SITE CLASS = D

ALLOWABLE SOIL BEARING PRESSURE = 1000 PSF

LATERAL EQUIVALENT FLUID PRESSURE OF 45 PSF/FT

PASSIVE PRESSURE = 100 PSF

COEFFICIENT OF FRICTION FOR SLIDING = .25



WALL SCHEDULE FOR WALL AT EDGE OF FOOTING

WALL HEIGHT (FT)	4'-0"	6'-0"	6'-0"	8'-0"
CMU THICKNESS (IN)	6"	6"	8"	8"
(V) REBAR #4 @	48" O.C.	24" O.C.	24" O.C.	8" O.C.
FTG REBAR	2-#4	3-#4	4-#4	6-#4
FTG (W)	1'-9"	2'-9"	3'-0"	5'-0"

WALL SCHEDULE FOR WALL AT CENTER OF FOOTING

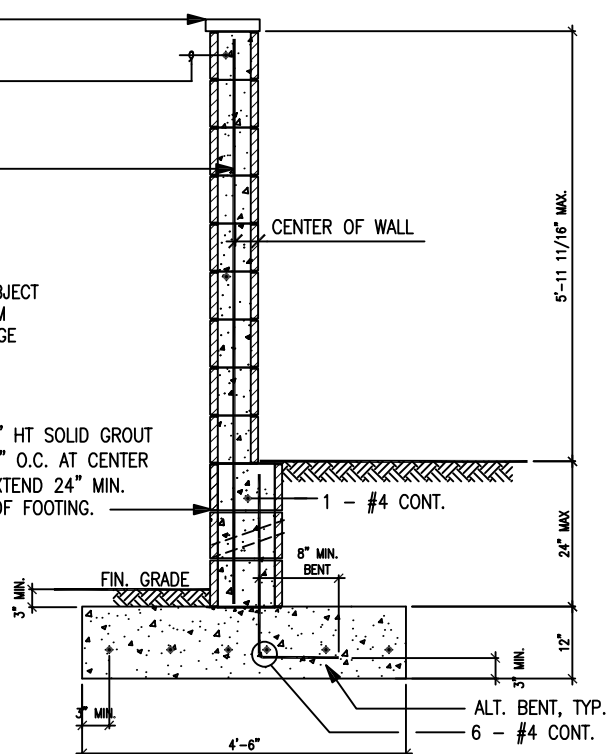
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FTG REBAR	2-#4	3-#4	3-#4	4-#4
FTG (W)	1'-6"	2'-0"	2'-3"	3'-3"

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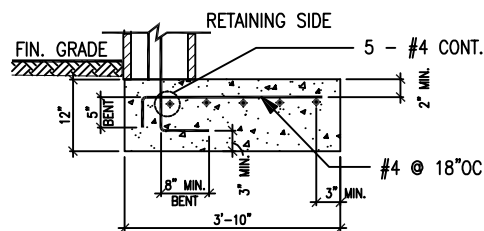
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8" CMU, 24" HT SOLID GROUT
W/ #4 @ 8" O.C. AT CENTER
OF WALL. EXTEND 24" MIN.
FROM TOP OF FOOTING. —



2' RETAINING WALL



OPTIONAL FOOTING FOR
2' RETAINING WALL