

SOUTHERN NEVADA BUILDING OFFICIALS
REGIONAL STANDARDS

B-100-1
02-01-2021
PG. 1 OF 2

MASONRY FENCES

2018 IBC

Clark County
Dept. of Building & Fire Prevention
4701 W Russell Rd
Las Vegas, NV 89118
(702) 455-3000

Boulder City
Building Department
401 California Avenue
Boulder City, NV 89005
(702) 293-9282

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

Las Vegas
Building & Safety Dept.
333 N. Rancho Drive
Las Vegas, NV 89106
(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 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 IBC.

DESIGN CRITERIA

2018 IBC WITH SO. NV AMENDMENTS

WIND LOAD

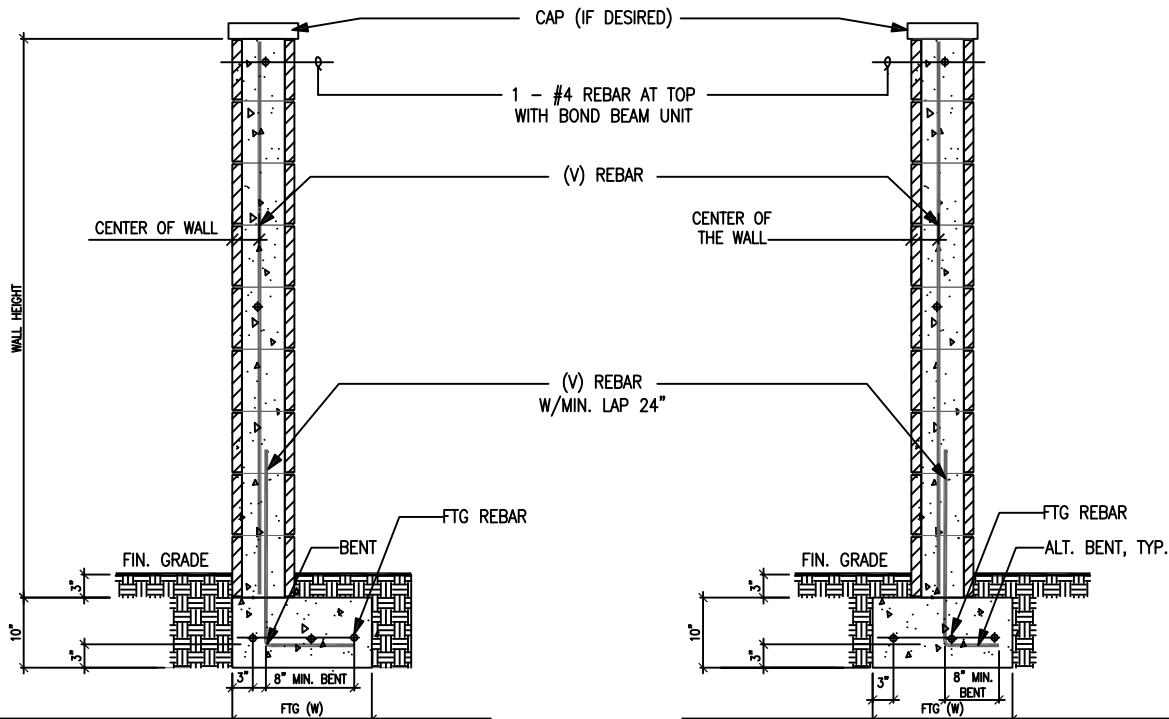
BASIC WIND SPEED = 95 MPH, EXPOSURE C
Kz = 0.85
Ke = 1.0
Kzt = 1.0
Kd = 0.85
Cf = 1.4
G = 0.85

SEISMIC LOAD

DESIGN SPECTRAL RESPONSE Sds = 0.574g
SEISMIC COEFFICIENTS R = 1.25 (ASCE 7-16, T-15.4-2)
Cs = 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				
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	3-#4	4-#4
FTG (W)	1'-6"	2'-0"	2'-3"	3'-3"

Mesquite
Building Department
10 East Mesquite Blvd.
Mesquite, NV 89027
(702) 346-2835

North Las Vegas
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2250 Las Vegas Blvd. N
N. Las Vegas, NV 89030
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Pahrump
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250 N Hwy 160 Suite #3
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Clark County School District
Building Department
1180 Military Tribute Place
Henderson, NV 89074
(702) 799-7605

MASONRY RETAINING WALLS

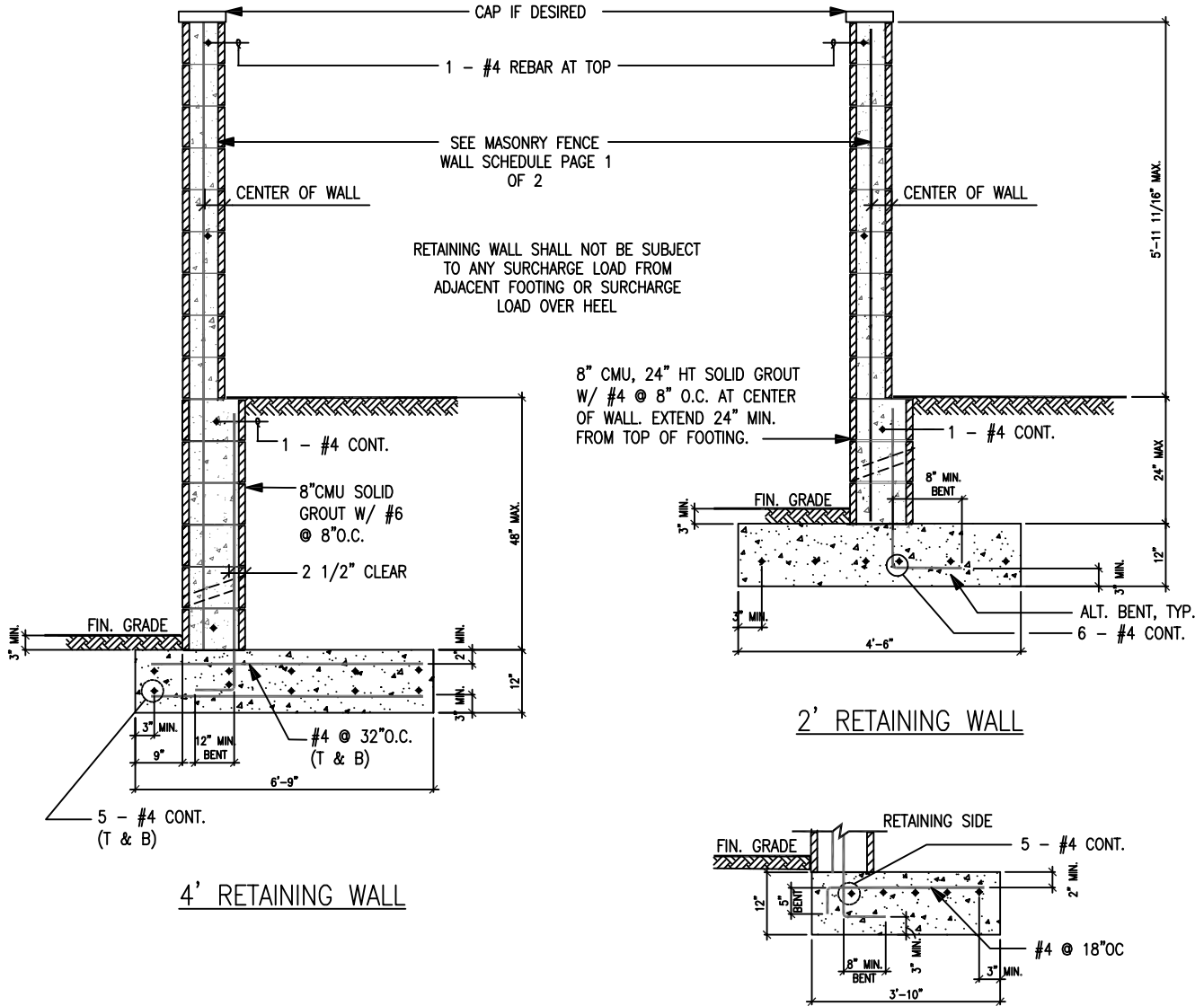
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