

			TYPE 1: 6" TOE				
GRADE CONDITION	"H" (W ALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	YBARS	ZBARS	"K" (KEY DEPTH
	5'- 1" to 6'- 0"	24"	69"	#4 @ 16"	#4 @ 32"	#4 @ 11"	30"
SLOPING GRADE	4'- 1" to 5'- 0"	N/R	48"	#4 @ 16"	#4 @ 16"	#4 @ 12"	25"
AT TOP OF WALL	3'- 1" to 4'- 0"	N/R	30"	#4 @ 32"	#4 @ 32"	#4 @ 32"	16"
(2:1 MAX)	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8"
	5'- 1" to 6'- 0"	24"	45"	#4 @ 24"	#4 @ 32"	#4 @ 24"	8 "
LEVEL GRADE	4'- 1" to 5'- 0"	N/R	36"	#4 @ 24"	#4 @ 24"	#4 @ 24"	7 "
AT TOP OF WALL	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	5 "
	Up to 3'- 0"	N/R	21"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R

		7	TYPE 2: 6" HEE	L			
GRADE CONDITION	"H" (WALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	Y BARS	ZBARS	"K" (KEY DEPTH)
	5'- 1" to 6'- 0"	24"	39"	#4 @ 16"	#4 @ 32"	#4 @ 12"	28"
SLOPING GRADE	4'- 1" to 5'- 0"	N/R	29"	#4 @ 16"	#4 @ 16"	#4 @ 12"	22"
AT TOP OF WALL	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	15"
(2:1 MAX)	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8 "
	5'- 1" to 6'- 0"	24"	33"	#4 @ 24"	#4 @ 32"	#4 @ 24"	18"
LEVEL GRADE	4'- 1" to 5'- 0"	N/R	26"	#4 @ 24"	#4 @ 24"	#4 @ 24"	13"
AT TOP OF WALL	3'- 1" to 4'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	7"
	Up to 3'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R

N/R = NOT REQUIRED

SEE PAGE 2 FOR ADDITIONAL INFORMATION

DISCLAIMER:

ALTERNATE RETAINING WALL DESIGNS MAY BE POSSIBLE WHEN PROVIDED WITH AN ENGINEERED ANALYSIS. USE OF THIS STANDARD DESIGN IS AT THE USER'S RISK AND CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS.

WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM



CITY OF SAN JACINTO BUILDING DEPARTMENT

RETAINING WALLS

JACHVIC					
PHONE 951-487-7330	595 s. san jacinto avenue San jacinto, ca 92583				
FAX 951-654-9896	01/01/2008	RETWALLFINAL.VSD	PAGE 1 OF 2		

GENERAL NOTES:

- 1) ALL WORK SHALL CONFORM TO THE ADOPTED CODES AND ZONING REGULATIONS.
- 2) CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
 - A. CONCRETE MASONRY SHALL CONFORM TO ASTM C-90, GRADE N.
 - B. MORTAR: TYPE M OR S.
 - C. GROUT ALL CELLS W/2000 PSI PORTLAND CEMENT GROUT.
- 3) THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE 2500 PSI.
- **4)** ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A615-40 AND OVERLAP SPLICES SHALL BE 40 BAR DIAMETERS MINIMUM. ALL REBAR HOOKS SHALL BE A MINIMUM OF 12 TIMES THE REBAR DIAMETER (12bd) IN LENGTH.
- **5)** PROVIDE RETAINING WALL DRAINAGE SYSTEM AS FOLLOWS:
 PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 4" DIAMETER PERFORATED PVC DRAINAGE PIPE WITH
 1% GRADIENT TO DRAIN OR OMIT HEAD JOINTS IN FIRST COURSE.
- 6) OPTIONAL: INSTALLATION OF A MOISTURE BARRIER ON THE FILL SIDE OF THE WALL WILL HELP TO PREVENT MOISTURE FROM PENETRATING THE VISIBLE SIDE OF THE WALL, RESULTING IN DISCOLORATION.
- 7) THIS RETAINING WALL STANDARD IS **NOT** DESIGNED TO SUPPORT SURCHARGE LOADS FROM MOTOR VEHICLES OR OTHER STRUCTURES.
- 8) CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5 FEET IN HEIGHT. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR AND SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

REQUIRED INSPECTIONS:

1) FOOTING:

EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.

2) REBAR/PRE-GROUT AND DRAINAGE SYSTEM;

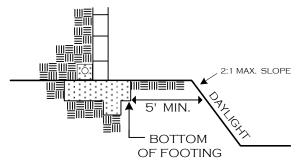
BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT. DRAINAGE SYSTEM COMPLETE.

3) FINAL;

AFTER GROUT IS PLACED AND BACKFILL COMPLETED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

SETBACK FROM TOP OF SLOPE:

ALL FOOTINGS ADJACENT TO SLOPES TO BE AT LEAST 5' TO DAYLIGHT AS SHOWN BELOW.



DESIGN PARAMETERS:

ACTIVE SOIL PRESSURE (PSF)

LEVEL BACKFILL = 30

SLOPING (2:1 MAX) = 43

PASSIVE SOIL BEARING (PSF) = 150

COEFFICIENT OF FRICTION = 0.25

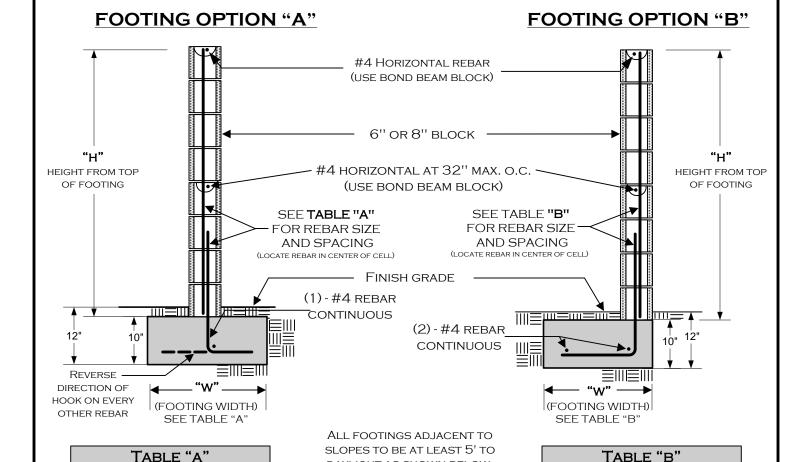
ALLOWABLE SOIL BEARING PRESSURE (PSF) = 1500

(NO INCREASES TAKEN FOR DEPTH OR WIDTH OF FOOTING)

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WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM					
OF SAN JAC	CITY OF SAN JACINTO				
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FAX 951-654-9896	01/01/2008	RETWALLFINAL.VSD	PAGE 2 OF 2		



DAYLIGHT AS SHOWN BELOW.

5' MIN

воттом

FOOTING

NOTES:

"H"

3'

4'

5'

6

"w"

17"

20"

23"

29"

1) THIS DESIGN DOES <u>NOT</u> ALLOW GRADE DIFFERENTIALS OF MORE THAN 6" ON OPPOSING SIDES OF THE WALL. THIS IS NOT A RETAINING WALL.

VERTICAL

REINFORCEMENT

#4@48"O.C

#4@48"O.C

#4@48"O.C

#4@24"O.C

- 2) FENCE HEIGHTS ARE REGULATED CONSULT ZONING REGULATIONS BEFORE BEGINNING CONSTRUCTION.
- 3) NO WATER COURSE OR NATURAL DRAINAGE SHALL BE OBSTRUCTED.
- 4) GROUT <u>ONLY</u> THE CELLS CONTAINING REBAR. THIS WALL IS NOT DESIGNED FOR ALL CELLS TO BE GROUTED.
- 5) ALL REBAR TO BE ASTM SPEC. A615, GRADE 40 MINIMUM.
- 6) ALL REBAR LAP SPLICES TO BE 24" MINIMUM.
- 7) ALL MASONRY UNITS TO BE ASTM C-90 GRADE N.
- 8) REBAR TO BE CENTERED IN MASONRY CELLS.

SEE PAGE 2 FOR ADDITIONAL INFORMATION

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CHECK WITH THE BUILDING DEPARTMENT TO VERIFY IF A BUILDING PERMIT IS REQUIRED.

"W"

19"

22"

29"

34"

"H"

3'

4'

5'

6

VERTICAL

REINFORCEMENT

#4@48"O.C.

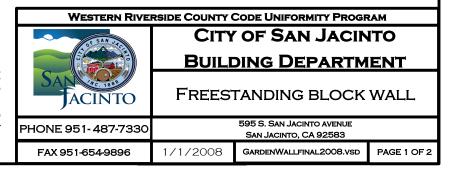
#4@48"O.C.

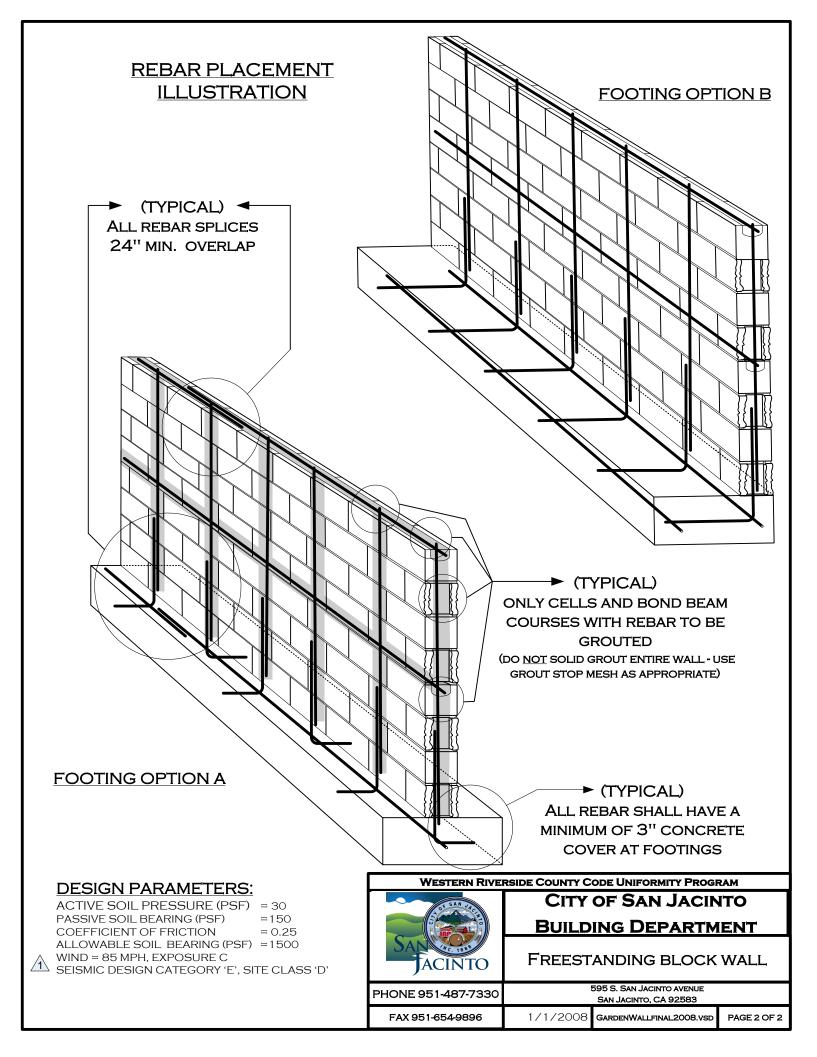
#4@48"O.C

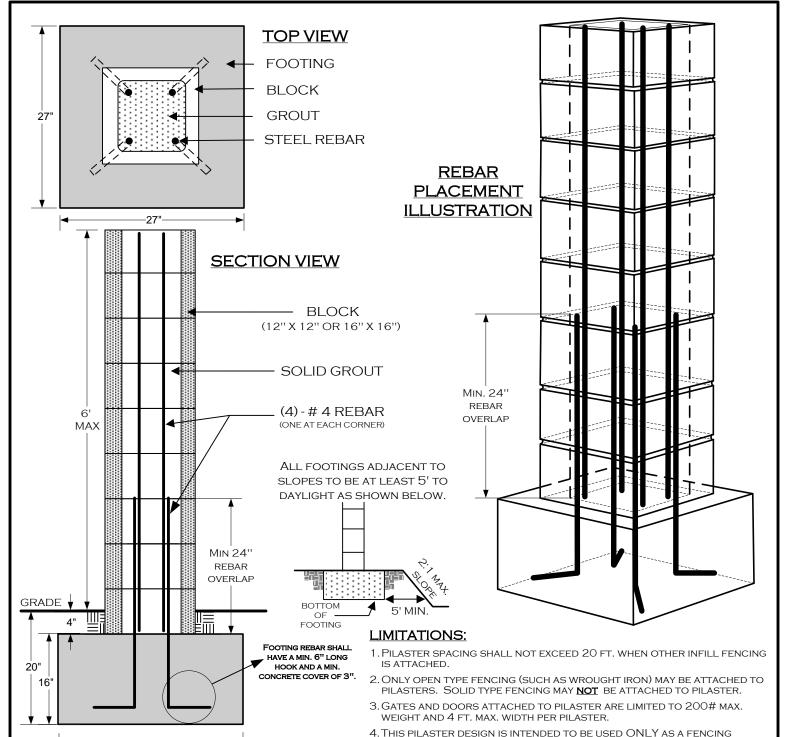
#4@24"O.C

WHEN A PERMIT IS REQUIRED, THE FOLLOWING INSPECTIONS ARE REQUIRED:

- 1) FOOTING; EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.
- 2) REBAR/PRE-GROUT; BOND BEAM REBAR AND VERTICAL REBAR IN PLACE INSPECTION PRIOR TO PLACING GROUT.
- 3) FINAL; AFTER GROUT IS PLACED PRIOR TO ANY DECORATIVE CAP PLACEMENT.







CHECK WITH THE BUILDING DEPARTMENT TO VERIFY IF A BUILDING PERMIT IS REQUIRED.

-27"

WHEN A BUILDING PERMIT IS REQUIRED, THE FOLLOWING INSPECTIONS ARE ALSO REQUIRED:

- 1) <u>FOOTING</u>; EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING THE EARTH/DIRT.
- 2) <u>REBAR/PRE-GROUT</u>; VERTICAL REBAR IN PLACE-INSPECTION PRIOR TO PLACING GROUT.
- 3) <u>FINAL</u>; AFTER GROUT IS PLACED PRIOR TO ANY DECORATIVE CAP PLACEMENT.

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- 4. THIS PILASTER DESIGN IS INTENDED TO BE USED <u>OINLY</u> AS A FENCING FEATURE AND IS NOT INTENDED TO SUPPORT ANY OTHER LOADS.
- $5.\,\mbox{Fence}$ heights are regulated consult zoning regulations before beginning construction.
- 6. Installation of electric circuits, conduits, or lighting fixtures require electrical permits and inspection.
- $7. \\ FOOTINGS TO BE \\ PLACED IN UNDISTURBED SOIL OR PROPERLY COMPACTED \\ AND ENGINEERED FILL.$
- 8. FOR DESIGN PARAMETERS, SEE FREESTANDING BLOCK WALL STANDARD.

