

DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss ≤ 2.14g & S_{DS} ≤ 1.40g

SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss $\&\,S_{\rm DS}$ GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- JOINT REINFORCEMENT ("LADDER" TYPE) SHALL BE COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A951. PROVIDE MINIMUM 6 INCH LAP SPLICES.
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- 8. CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
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permit for, or a provisions of the approved plans

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APPROVED

By: L.Diaz DATE08/01/2023

WIND LOAD CONVERSION TABLE						
V 100 110 120 123 130						
V_{asd}	78	85	93	96	101	
V = BASIC DESIGN WIND SPEEDS						

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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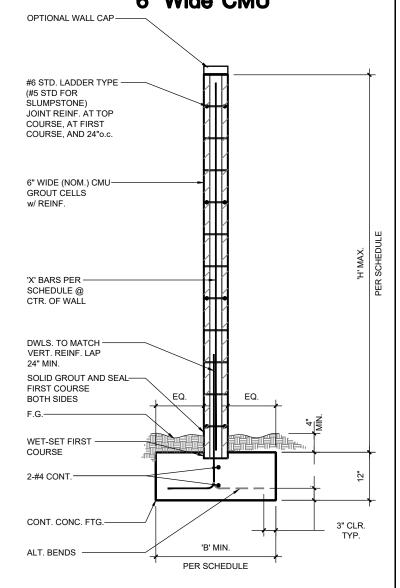
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MASONRY FENCE WALL SCHEDULE DESIGN WIND 'H' MAX 'X' BARS 'B' MIN. EXP / mph 6'-0 C @ 123 #4@48"o.c. 6'-8' C @ 123 #4@32"o.c. 2'-5' 7'-4" #4@24"o.c C @ 123 2'-8' C @ 123 2'-10' #4@24"o.c

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CITY OF COACHELLA, CA

6' to 8' High Site Wall Concentric Spread Footing C o 123mph (ult.) Risk Category I 6" Wide CMU





S-1.0

#23_090



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GSE

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APPROVED

Coachella Building Division.

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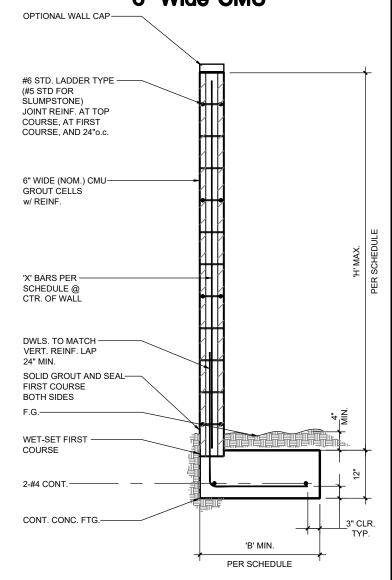
By: L.Diaz DATE08/01/2023

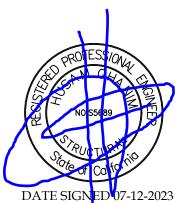
MASONRY FENCE WALL SCHEDULE					
'H' MAX.	DESIGN WIND EXP / mph	'X' BARS	'B' MIN.		
6'-0"	C @ 123	#4@48"o.c.	2'-8"		
6'-8"	C @ 123	#4@32"o.c.	3'-0"		
7'-4"	C @ 123	#4@24"o.c.	3'-4"		
8'-0"	C @ 123	#4@24"o.c.	3'-7"		

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CITY OF COACHELLA, CA

6' to 8' High Site Wall Eccentric Spread Footing C o 123mph (ult.) Risk Category I 6" Wide CMU







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WIND LOAD CONVERSION TABLE 100 110 120 123 78 85 93 96

= BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

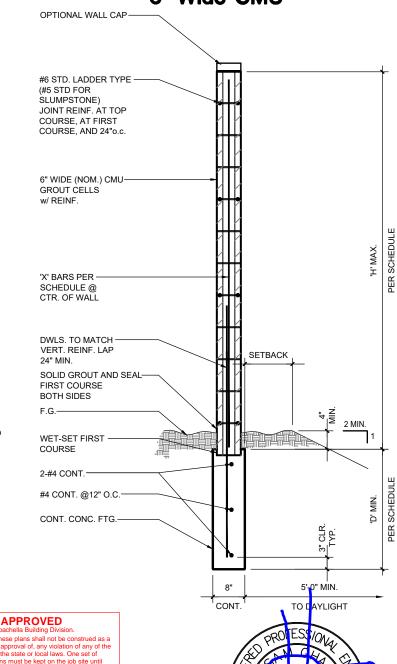
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CITY OF COACHELLA, CA

6' to 8' High Site Wall Trench Footing C @ 123mph (ult.) Risk Category I 6" Wide CMU





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By: L.Diaz DATE08/01/2023

MASONRY FENCE WALL SCHEDULE					
'H' MAX.	DESIGN WIND	'X' BARS	'D' MIN.		
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6'-0"	C @ 123	#4@48"o.c.	2'-8"		
6'-8"	C @ 123	#4@32"o.c.	2'-11"		
7'-4"	C @ 123	#4@24"o.c.	3'-2"		
8'-0"	C @ 123	#4@24"o.c.	3'-5"		
DESIGN IS ADEQUATE FOR 2:1 MIN. SLOPE WITH NO SETBACK					

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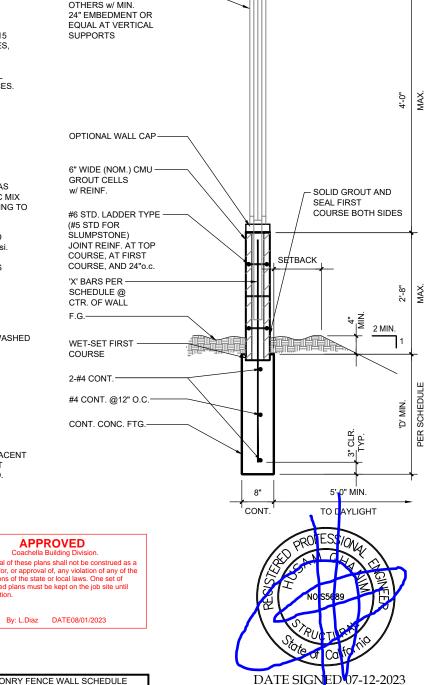
DATE SIGNED 07-12-2023



RIGIDLY ATTACHED

GLASS PANEL FENCE BY

6'-8" High Glass View Wall **Trench Footing** C @ 123mph (ult.) Risk Category I 6" Wide CMU



ANGELUS BLOCK MASONRY FENCE WALL SYSTEM

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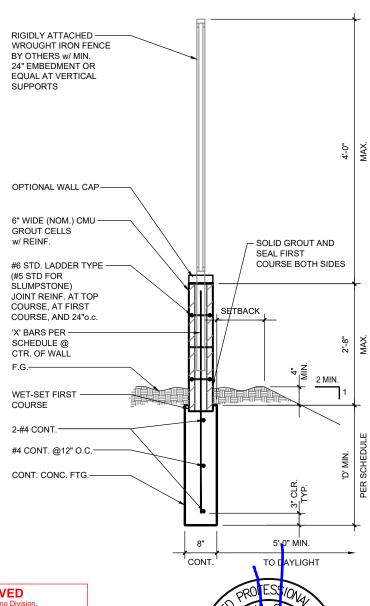
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6'-8" High Iron View Wall Trench Footing C @ 123mph (ult.) Risk Category I 6" Wide CMU



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DATE08/01/2023

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- JOINT REINFORCEMENT ("LADDER" TYPE) SHALL BE COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A951. PROVIDE MINIMUM 6 INCH LAP SPLICES.
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- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- 5. MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.

16. BACKFILL SHALL BE PROPERLY COMPACTED LOADING:

- SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.
- 2. FOUNDATION SIZES BASED ON MAXIMUM WIND OR SEISMIC LOADING

MAXIMUM WIND OR SEISMIC LOADING						
WIND LOAD CONVERSION TABLE						
V	100	110	120	123	130	
V_{asd}	78	85	93	96	101	

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

GSE

GHANIM STRUCTURAL

898 N. FAIR OAKS AVE., STE. F, PASADENA, CA 91103 T: 626.407.2224 • www.ghanimSE.com

APPROVED

Coachella Building Division.

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job site until completion.

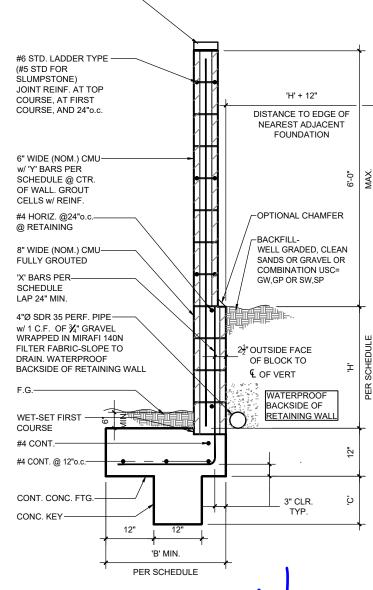
By: L.Diaz DATE08/01/2023

MASONRY FENCE RETAINING WALL SCHEDULE							
'H'	DESIGN WIND EXP / mph	'X' BARS	'Y' BARS	'B' MIN.	'C' MIN.		
2'-0"	C @ 123	#4@32"o.c.	#4@48"o.c.	2'-4"	0'-4"		
2'-8"	C @ 123	#4@32"o.c.	#4@48"o.c.	2'-6"	0'-7"		
3'-4"	C @ 123	#4@32"o.c.	#4@48"o.c.	2'-8"	0'-10"		
4'-0"	C @ 123	#4@24"o.c.	#4@48"o.c.	2'-11"	1'-2"		

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

6' High Wall 2' to 4' Retaining Toe-out Footing C @ 123mph (ult.) Risk Category I 6"/8" Wide CMU

OPTIONAL WALL CAP





DATE SIGNED 07-12-2023

S-1.5



DESIGN CRITERIA:

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- 7. USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss ≤ 2.14g & S_{DS} ≤ 1.40g

SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & $S_{\rm DS}$ GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- JOINT REINFORCEMENT ("LADDER" TYPE) SHALL BE COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A951. PROVIDE MINIMUM 6 INCH LAP SPLICES.
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
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- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.

16. BACKFILL SHALL BE PROPERLY COMPACTED LOADING:

- I. SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.
- 2. FOUNDATION SIZES BASED ON

MAXIMUM WIND OR SEISMIC LOADING					
WIND LOAD CONVERSION TABLE					
V	100	110	120	123	130
V_{asd}	78	85	93	96	101

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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GHANIM STRUCTURAL

BY N. FAIR OAKS AVE., STE. F, PASADENA, CA 91103
T: 626.407.2224 • www.ghanimSE.com

APPROVED

Coachella Building Division

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job site until completion.

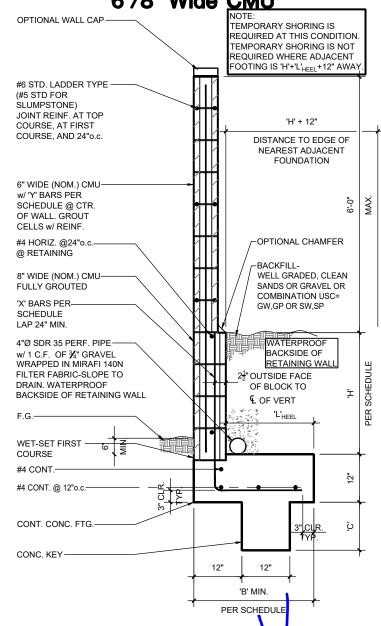
By: L.Diaz DATE08/01/2023

	MASONRY FENCE RETAINING WALL SCHEDULE						
'H'	DESIGN WIND EXP / mph	'X' BARS	'Y' BARS	'B' MIN.	'C' MIN.		
2'-0"	C @ 123	#4@32"o.c.	#4@48"o.c.	2'-11"	N/A		
2'-8"	C @ 123	#4@32"o.c.	#4@48"o.c.	3'-2"	N/A		
3'-4"	C @ 123	#4@32"o.c.	#4@48"o.c.	3'-6"	N/A		
4'-0"	C @ 123	#4@24"o.c.	#4@48"o.c.	3'-11"	0'-2"		

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA

6' High Wall 2' to 4' Retaining
Heel-In Footing
C @ 123mph (ult.)
Risk Category I
6"/8" Wide CMU





DATE SIGNED 07-12-2023

S-1.6



DESIGN CRITERIA:

- DESIGN CRITERIA PER 2022 CBC
- ALLOWABLE SOIL BEARING PRESSURE = 1500psf ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, "U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
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 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & S_{DS} GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476 WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
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 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
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- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED. APPROVED
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

LOADING:

SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.

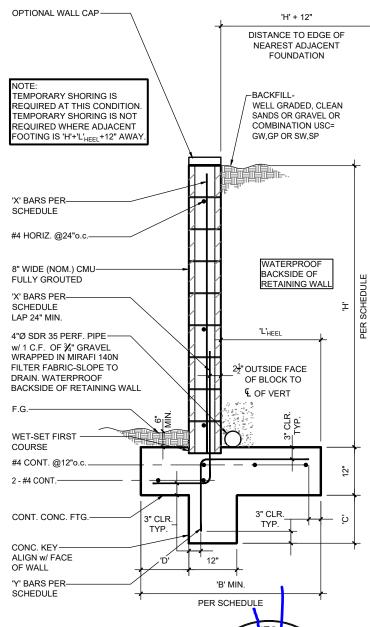
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GHANIM STRUCTURAL ENGINEERING 898 N. FAIR OAKS AVE., STE. F, PASADENA, CA 91103

	By. L.Diaz DATEO	101/2023			
	N	MASONRY RETA	AINING WALL SO	CHEDULE	
'H'	'X' BARS	'Y' BARS	'B' MIN.	'C' MIN.	'D'
2'-0"	#4@32"o.c.	N/A	1'-5"	N/A	N/A
2'-8"	#4@32"o.c.	N/A	1'-10"	0'-3"	0'-6"
3'-4"	#4@32"o.c.	N/A	1'-11"	0'-6"	0'-9"
4'-0"	#4@32"o.c.	N/A	2'-5"	0'-8"	0'-9"
4'-8"	#4@32"o.c.	N/A	2'-11"	0'-9"	0'-9"
5'-4"	#4@24"o.c.	N/A	3'-3"	1'-1"	1'-0"
6'-0"	#4@16"o.c.	#4@8"o.c.	4'-0"	1'-3"	1'-0"

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

2' to 6' High Retaining Wall Level Backfill 8" Wide CMU



Ca DATE SIGNED 07-12-2023



DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 8. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & S_{DS} \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & $S_{\rm DS}$ GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- 4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. NOT USED
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

LOADING:

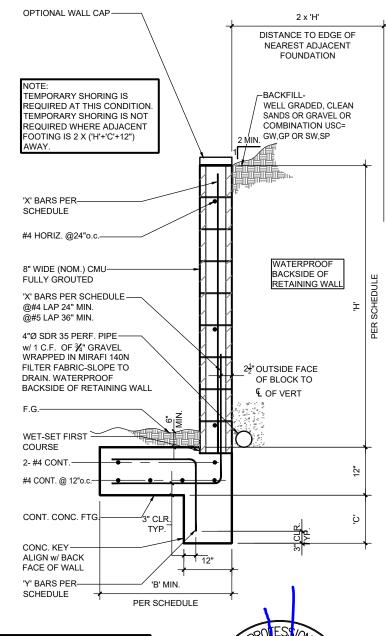
 SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.



This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA

2' to 6' High Retaining Wall Toe-out Footing Sloped Backfill 8" Wide CMU





DATE SIGNED 07-12-2023

APPROVED C 1 Q

APPROVED

Coachella Building Division.

Approval of these plans shall not be construed as a permit for or approval of any violation of any of the

permit for, or approval of, any violation of any of the permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of #23 approved plans must be kept on the job site until completion.



DESIGN CRITERIA:

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
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NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
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- VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
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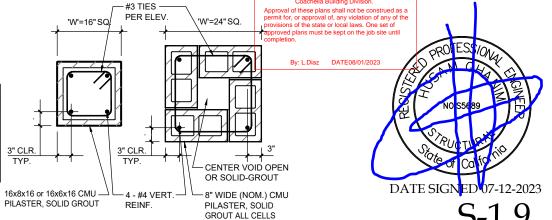
MASONRY PILASTER SCHEDULE						
'H'	'W' MAX.	'T'	'N'			
6'-8"	16"	4'-1"	1'-0"	4		
0-0	24"	4'-10"	1'-6"	5		
7'-4"	16"	4'-4"	1'-0"	4		
	24"	5'-1"	1'-6"	5		
8'-8"	16"	4'-9"	1'-0"	5		
	24"	5'-7"	1'-6"	6		

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GHANIM STRUCTURAL

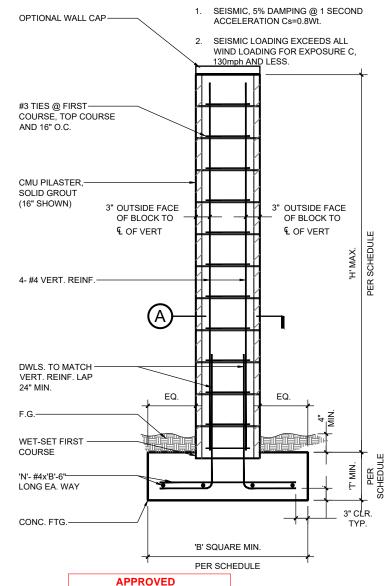
ENGINEERING

898 N. FAIR OAKS AVE., STE. F, PASADENA, CA 91103
T: 626.407.2224 • www.ghanimSE.com



6'-8" to 8'-8" High Pilaster Spread Footing Seismic, 5% © 1 second 16" or 24" CMU Pilaster

CITY OF COACHELLA, CA



#23-090

PILASTER SECTION

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.



DESIGN CRITERIA:

- DESIGN CRITERIA PER 2022 CBC
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- ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
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- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476 WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC:
- 8. NOT USED
- VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
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 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.

3" CLR

TYP.

16x8x16 or 16x6x16 CMU

PILASTER, SOLID GROUT

- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE **DETAIL SHEET S-5.1**
- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

MASONRY PILASTER SCHEDULE					
'H'	'W' MAX.	'D' MIN.			
6'-8"	16"	24"	4'-4"		
0-0	24"	36"	5'-1"		
7'-4"	16"	24"	4'-7"		
7 -4	24"	36"	5'-4"		
8'-8"	16"	24"	5'-2"		
0-0	24"	36"	5'-11"		

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PILASTER SECTION

'W'=16" SQ

#3 TIES

3" CLR.

TYP.

4 - #4 VERT

REINF

PFR FI FV

В

'B' Ø MIN

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of 130mph AND LESS. ved plans must be kept on the job site until Bv: L.Diaz DATE08/01/2023 COURSE, TOP COURSE

SEISMIC 5% DAMPING @ 1 SECOND

SEISMIC LOADING EXCEEDS ALL

WIND LOADING FOR EXPOSURE C,

3" OUTSIDE FACE

€ OF VERT

OF BLOCK TO

SCHEDULE

SCHEDULE

PER

- 3" CLR. TYP.

H. MAX

ACCELERATION Cs=0.8Wt.

CITY OF COACHELLA, CA 6'-8" to 8'-8" High Pilaster

Pole Footing

Seismic, 5% @ 1 second

16" or 24" CMU Pilaster

OPTIONAL WALL CAP-

APPROVED

#3 TIES AT FIRST-

AND @16" O.C.

CMU PILASTER, **SOLID GROUT**

4- #4 VERT. REINF.

DWLS TO MATCH

VERT, REINF, LAP 24" MIN

'W'=24" SQ

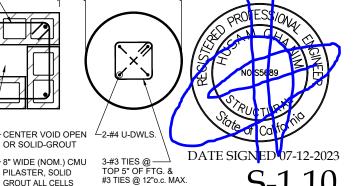
3" OUTSIDE FACE

€ OF VERT

OF BLOCK TO

(16" SHOWN)

WET-SET FIRST -COURSE 3-#3 TIES @-TOP 5" OF FTG. & #3 TIES @ 12"o.c. MAX. REMAINDER Ĭ 2 -#4 U-DWLS.-۵ В 'B' Ø MIN.-



FOOTING SECTION

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

GROUT ALL CELLS



DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- 7. USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 3. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & SpS \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & SDS GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- JOINT REINFORCEMENT ("LADDER" TYPE) SHALL BE COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A951. PROVIDE MINIMUM 6 INCH LAP SPLICES.
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

APPROVED

Coachella Building Division.

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job site until

By: L.Diaz DATE08/01/2023

WIND LOAD CONVERSION TABLE						
V 100 110 120 123 130						
V_{asd}	78	85	93	96	101	
V = BASIC DESIGN WIND SPEEDS						

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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MASONRY FENCE WALL SCHEDULE DESIGN WIND 'H' MAX 'X' BARS 'B' MIN. EXP / mph 6'-0 C @ 123 #4@48"o.c. 2'-4' 6'-8' C @ 123 #4@40"o.c. 2'-8' 7'-4" #4@32"o.c. 2'-11' C @ 123 C @ 123 #4@24"o.c

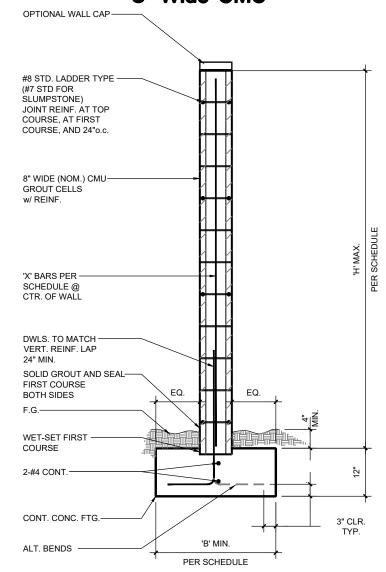
This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA 6' to 8' High Site Wall

C @ 123mph (ult.)

Concentric Spread Footing

Risk Category I 8" Wide CMU





S-1.11



DESIGN CRITERIA:

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- 7. USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 8. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & S_{DS} \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & $S_{\rm DS}$ GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- 4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- 8. CONCRETE BLOCK SHALL BE LAID IN STACKED BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- BACKFILL SHALL BE PROPERLY COMPACTED.

WIND LOAD CONVERSION TABLE V 100 110 120 123 130 V_{set} 78 85 93 96 101

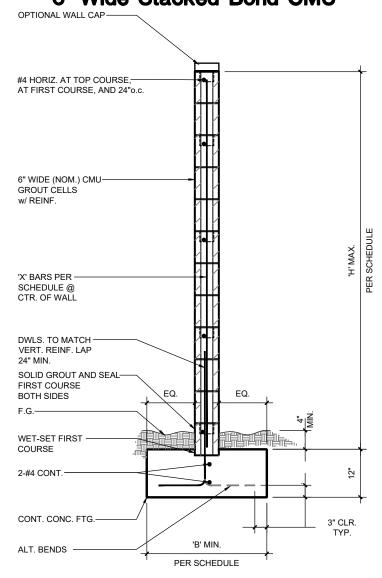
V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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CITY OF COACHELLA, CA

6' to 8' High Site Wall Concentric Spread Footing C @ 123mph (ult.) Risk Category I 6" Wide Stacked Bond CMU



APPROVED

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job site until completion.

By: L.Diaz DATE08/01/2023

MASONRY FENCE WALL SCHEDULE					
'H' MAX. DESIGN WIND EXP / mph		'X' BARS	'B' MIN.		
6'-0"	C @ 123	#4@48"o.c.	2'-2"		
6'-8"	C @ 123	#4@32"o.c.	2'-5"		
7'-4"	C @ 123	#4@24"o.c.	2'-8"		
8'-0"	C @ 123	#4@24"o.c.	2'-10"		

7-4 C @ 123 ##@24 0.6. 2-0

8'-0" C @ 123 #4@24"o.c. 2'-10"

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.



S-1.12

#23_090



DESIGN CRITERIA:

- DESIGN CRITERIA PER 2022 CBC
- ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss $\leq 2.14g \& S_{DS} \leq 1.40g$
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & S_{DS} GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476 WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS
- CONCRETE BLOCK SHALL BE LAID IN STACKED BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS
- VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE **DETAIL SHEET S-5.1**
- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

WIND LOAD CONVERSION TABLE					
V	100	110	120	123	130
V _{asd} 78 85 93 96 101					
V - DASIC DESIGN WIND SPEEDS					

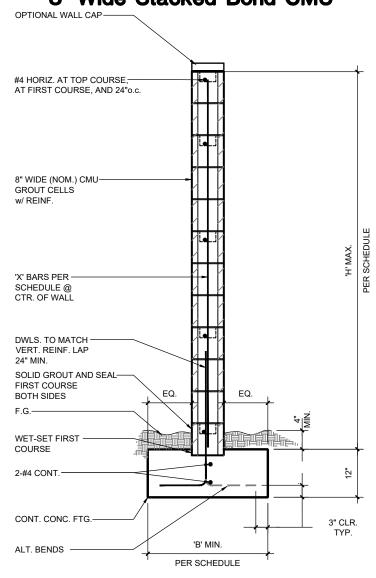
V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

GHANIM STRUCTURAL ENGINEERING

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CITY OF COACHELLA, CA

6' to 8' High Site Wall **Concentric Spread Footing** C @ 123mph (ult.) Risk Category I 8" Wide Stacked Bond CMU



APPROVED

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of pproved plans must be kept on the job site until

By: L.Diaz DATE08/01/2023

MASONRY FENCE WALL SCHEDULE					
'H' MAX.	DESIGN WIND	'X' BARS	'B' MIN.		
H WAX.	EXP / mph	A BARS	D IVIIIN.		
6'-0"	C @ 123	#4@48"o.c.	2'-4"		
6'-8"	C @ 123	#4@40"o.c.	2'-8"		
7'-4"	C @ 123	#4@32"o.c.	2'-11"		
8'-0"	C @ 123	#4@24"o.c.	3'-5"		

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.



DATE SIGNED 07-12-2023



DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 8. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & S_{DS} \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & $S_{\rm DS}$ GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. NOT USED
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.

Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of

proved plans must be kept on the job site until

6'-0"

- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR STRUCTURES.
- THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

LOADING:

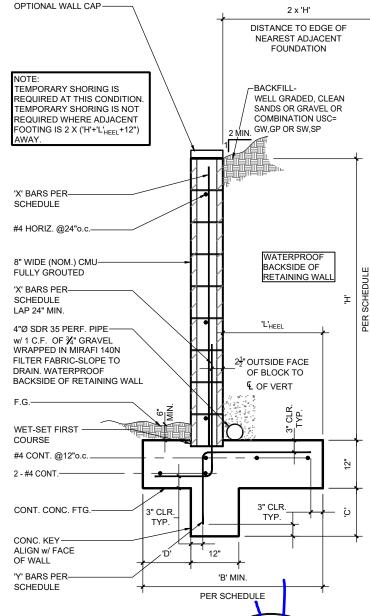
 SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.

○2MASONRY RETAINING WALL SCHEDULE 'H' 'X' BARS 'Y' BARS 'B' MIN 'C' MIN 'D' 2'-0" #4@32"o.c. N/A 1'-0" N/A 2'-3" 1'-4" 2'-8" #4@32"o.c. N/A 2'-3" 0'-6' 3'-4" #4@32"o.c. N/A 2'-6" 1'-7' 1'-0' 4'-0" #4@16"o.c. #4@8"o.c. 3'-6" 2'-4" 1'-0" 4'-8" 1'-0" #4@8"o.c. #4@8"o.c. 4'-3' 2'-11' 5'-4" #4@8"o.c. #4@8"o.c. 4'-3" 3'-0" 1'-0"

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

#4@8"o.c

2' to 6' High Retaining Wall Sloped Backfill 8" Wide CMU





S-1.14

#23-090



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DESIGN CRITERIA:

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 8. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & S_{DS} \leq 1.40g

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NOTES

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- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
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- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. NOT USED
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
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- 13. EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.

 APPROVED

 Cachella Building Division.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- BACKFILL SHALL BE PROPERLY COMPACTED.

LOADING:

 SEISMIC, 5% DAMPING @ 1 SECOND ACCELERATION Cs=0.80Wt.

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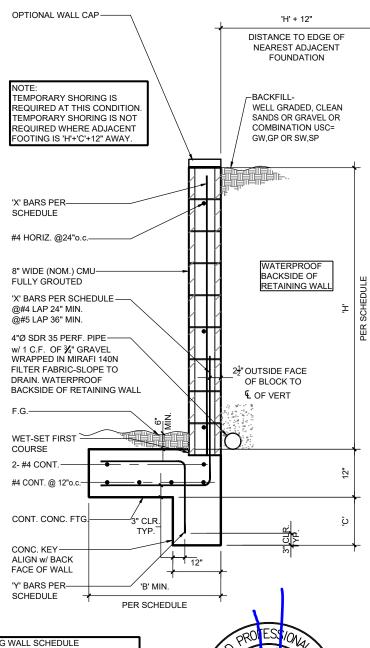
Approval of these plans shall not be construed as a permit for, or approval of, any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job site until completion.

> MASONRY RETAINING WALL SCHEDULE 'H' 'X' BARS 'Y' BARS 'B' MIN. 'C' MIN. 2'-0" #4@32"o.c. 1'-5" N/A N/A 2'-8" #4@32"o.c. N/A 1'-8" 0'-4" 3'-4" 1'-10" 0'-7 #4@32"o.c N/A 4'-0" #4@32"o.c. N/A 2'-2" 1'-2" 2'-6" 1'-3' 4'-8" #4@32"o.c. N/A 5'-4" #4@16"o.c. #4@16"o.c. 3'-0" 1'-6" #4@8"o.c

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA

2' to 6' High Retaining Wall Toe-out Footing Level Backfill 8" Wide CMU



DATE SIGNED 07-12-2023

#23_090



DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 3. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & SpS \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & SDS GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- JOINT REINFORCEMENT ("LADDER" TYPE) SHALL BE COLD-DRAWN STEEL WIRE CONFORMING TO ASTM A951. PROVIDE MINIMUM 6 INCH LAP SPLICES.
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- 8. CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- BACKFILL SHALL BE PROPERLY COMPACTED.

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WIND LOAD CONVERSION TABLE V 100 110 120 123 130 V_{asd} 78 85 93 96 101 V = BASIC DESIGN WIND SPEEDS

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

GSE

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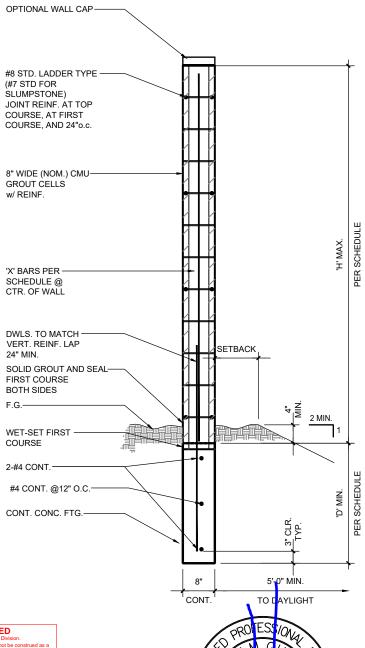
By: L.Diaz DATE08/01/2023

MASONRY FENCE WALL SCHEDULE					
'H' MAX.	DESIGN WIND EXP / mph	'X' BARS	'D' MIN.		
6'-0"	C @ 123	#4@48"o.c.	2'-11"		
6'-8"	C @ 123	#4@40"o.c.	3'-4"		
7'-4"	C @ 123	#4@32"o.c.	3'-7"		
8'-0"	C @ 123	#4@24"o.c.	3'-10"		
DESIGN IS ADEQUATE FOR 2:1 MIN. SLOPE WITH NO SETBACK					

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA 6' to 8' High Site Wall Trench Footing C o 123mph (ult.)

Risk Category I 8" Wide CMU





S-1.16



DESIGN CRITERIA:

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi. SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss ≤ 2.14g & S_{DS} ≤ 1.40g

SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & SDS GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
- MORTAR SHALL BE SPEC MIX TYPE S PREBLENDED MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO ASTM C270, OR SPEC MIX IWR MASONRY MORTAR AS MANUFACTURED BY E-Z MIX INC., CONFORMING TO PROPERTY REQUIREMENTS OF ASTM C270. NO SUBSTITUTIONS.
- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- 8. CONCRETE BLOCK SHALL BE LAID IN STACKED BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
- 12. FOR TYPICAL FOOTING STEP AND DRAINAGE BLOCK-OUT DETAILS SEE DETAIL SHEET S-5.1.
- EXCAVATION FOR WALL/FOUNDATION SHALL NOT UNDERMINE ANY ADJACENT STRUCTURES. TEMPORARY SHORING AND STABILIZATION OF ADJACENT STRUCTURES SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- 14. THIS DESIGN IS NOT TO BE USED FOR GATE WALLS.
- 15. WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

APPROVED Coachella Building Division.

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By: L.Diaz DATE08/01/2023

WIND LOAD CONVERSION TABLE					
V	100	110	120	123	130
V_{asd}	78	85	93	96	101
V = BASIC DESIGN WIND SPEEDS					

V - BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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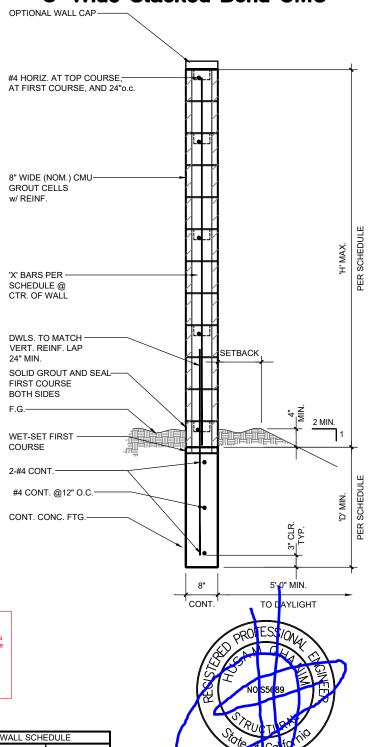
MASONRY FENCE WALL SCHEDULE **DESIGN WIND** н' мах 'X' BARS 'D' MIN EXP / mph 6'-0' C @ 123 #4@48"o.c. 2'-11' 6'-8 C @ 123 #4@40"o.c 3'-4' #4@32"o.c. 7'-4" C @ 123 3'-7' 8'-0" C @ 123 #4@24"o.c 3'-10'

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry

units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

6' to 8' High Site Wall Trench Footing C @ 123mph (ult.) Risk Category I 8" Wide Stacked Bond CMU

CITY OF COACHELLA, CA



5-1.17

DATE SIGNED 07-12-2023



DESIGN CRITERIA

- 1. DESIGN CRITERIA PER 2022 CBC
- 2. ALLOWABLE SOIL BEARING PRESSURE = 1500psf
- 3. ALLOWABLE SOIL PASSIVE PRESSURE = 150pcf
- 4. COEFFICIENT OF FRICTION = 0.25, COHESION = 0psf
- 5. CANTILEVER ACTIVE = 30pcf
- MASONRY COMPRESSIVE STRENGTH, fm = 2000psi, SPECIAL INSPECTION NOT REQUIRED PER CBC SECTION 1704.2, EXCEPTION 2, 'U' OCCUPANCY.
- USER TO VERIFY APPLICABILITY OF THE DEFINED DESIGN CRITERIA FOR THE PROJECT SPECIFIC SITE
- 8. THIS DESIGN IS BASED ON SEISMIC PARAMETERS AS FOLLOWS: Ss \leq 2.14g & S_{DS} \leq 1.40g
 - SITE SPECIFIC PARAMETERS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF WORK. FOR Ss & SDS GREATER THAN WHAT IS SHOWN, THIS DESIGN SHALL REQUIRE FURTHER ENGINEERING.

NOTES

- REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A615 GRADE 60. PROVIDE SPLICES (LAPS) OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. CENTER VERTICAL BARS IN CELLS.
- NOT USED
- STRENGTH OF CONCRETE FOR FOOTINGS = 4500psi @ 28 DAYS, UNLESS OTHERWISE REQUIRED BY SOILS REPORT.
- 4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90. ANGELUS BLOCK PRECISION, SPLIT FACE, BURNISHED, OR SHOTBLAST, WITH OR WITHOUT MORTARLESS HEAD JOINTS (TONGUE-AND-GROOVE), OR ANGELUS BLOCK SLUMPSTONE SHALL BE USED. NO SUBSTITUTIONS.
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- GROUT SHALL CONFORM TO ASTM C476, WITH AN 8-11 INCH SLUMP, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000psi.
- FIRST COURSE MAY BE WET-SET 1 1/2 INCHES MAX. WHILE CONCRETE IS PLASTIC.
- 8. CONCRETE BLOCK SHALL BE LAID IN STACKED BOND PATTERN WITH VERTICAL CONTINUITY OF THE CELLS.
- 9. VERTICAL CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 40'-0"o.c., OR 20'-0"o.c. IF WALL IS TO BE STUCCO COATED OR MORTAR WASHED
- 10. GROUT ALL CELLS WITH REINFORCEMENT.
- 11. INSPECTIONS: A. AFTER FOOTING IS READY FOR CONCRETE AND ALL FOOTING REINFORCING IS TIED IN PLACE.
 - B. AFTER VERTICAL REINFORCEMENT IS IN PLACE AND CELLS ARE READY FOR GROUT.
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- WALL SHALL BE FOUNDED ON PROPERLY COMPACTED SOIL.
- 16. BACKFILL SHALL BE PROPERLY COMPACTED.

WIND LOAD CONVERSION TABLE						
V	100	110	120	123	130	
V _{asd} 78 85 93 96 101						
V - BASIC DESIGN WIND SDEEDS						

V = BASIC DESIGN WIND SPEEDS V_{asd} = ALLOWABLE STRESS DESIGN WIND SPEED

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APPROVED

Coachella Building Division.

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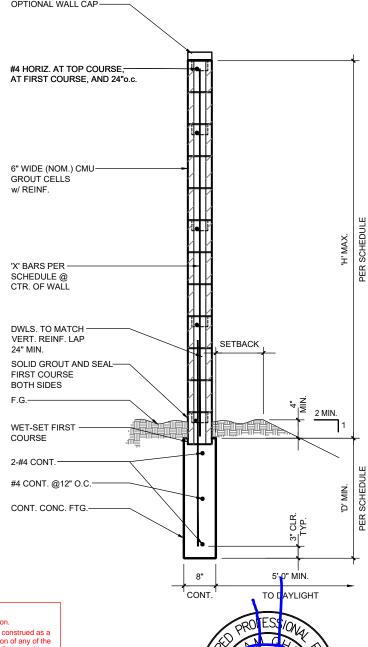
By: L.Diaz DATE08/01/2023

	MASONRY FEN	CE WALL SCHE	EDULE		
'H' MAX.	DESIGN WIND	'X' BARS	'D' MIN.		
Π IVIAX.	EXP / mph	A BARS	D WIIN.		
6'-0"	C @ 123	#4@48"o.c.	2'-8"		
6'-8"	C @ 123	#4@32"o.c.	2'-11"		
7'-4"	C @ 123	#4@24"o.c.	3'-2"		
8'-0" C @ 123 #4@24"o.c. 3'-5"					
DESIGN IS ADEQUATE FOR 2:1 MIN. SLOPE WITH NO SETBACK					

This detail is designed exclusively for Angelus Block Co., Inc. concrete masonry units and E-Z Mix Inc. products as specified herein. No substitutions allowed.

CITY OF COACHELLA, CA

6' to 8' High Site Wall Trench Footing C @ 123mph (ult.) Risk Category I 6" Wide Stacked Bond CMU



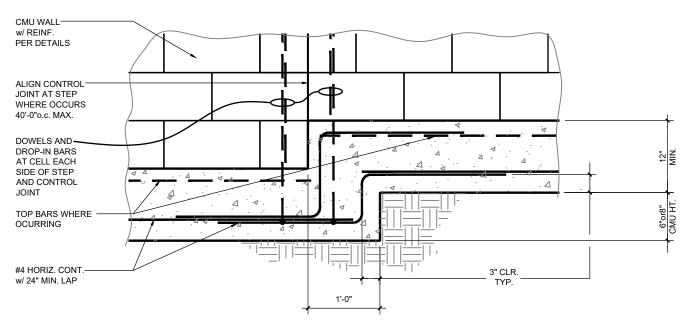
DATE SIGNED 07-12-2023

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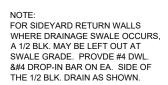
CITY OF COACHELLA, CA

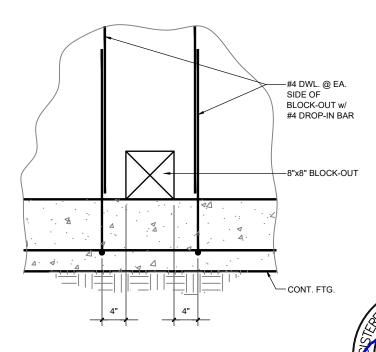


TYPICAL DETAILS



FOOTING STEP DETAIL





DRAINAGE BLOCK-OUT DETAIL

APPROVED

Coachella Building Division.

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By: L.Diaz DATE08/01/2023

S-5.1

DATE SIGNED 07-12-2023

#23-090

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ENGINEERING ——

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