

FLORIDA POWERBOX8
SPECIFICATION NOTES (3000 PSI)

- 1) PRODUCT NAME (PATENT NO. 6367209):
- PREFORMED POWERS STEEL LINTEL SHALL BE GALVANNEZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS. POWERS STEEL GRADE SHALL BE ASTM A575 GRADE C (FY=40 ksi).
- NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY. FOR SPANS LESS THAN 16'-0" BOX LINTEL TO BE 20 GA. FOR SPANS GREATER THAN OR EQUAL TO 16'-0" BOX LINTELS TO BE 16 GA.
- 2) SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 10'-0" ARE BUILT WITH 1/2" CAMBER.
- 3) LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM 1m AS SHOWN.
- 4) STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.
- 5) DESIGN BEARING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 16'-0" IN SPAN OR GREATER THAN 32" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.
- 6) 1m = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.
- 7) GROUT - 3,000 psi. SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE EITHER COARSE OR FINE GROUT.
- 8) MORTAR: TYPE "S" OR TYPE "M" 1800 psi.
- 9) TOP REINFORCING OR TOP OF WALL REINFORCING, IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS.
- 10) ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.
- 11) LIMITATIONS:
- THE LINTELS SHALL NOT EXCEED THE ALLOWABLE DESIGN LOADS AND SPANS SHOWN IN THIS REPORT.
- THE LINTELS SHALL NOT BE USED IN A FIRE RESISTANCE RATED ASSEMBLY UNLESS A TEST REPORT DOCUMENTING FIRE RESISTANCE IS SUBMITTED TO THE BUILDING OFFICE.
- A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/4" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.
- 12) DEFLECTION LIMITS ARE SET TO L600 FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L360 (LIVE LOAD) AND L240 (DEAD + LIVE LOAD) FOR ALL LOADS SHOWN BELOW DARKENED SOLID LINE.
- 13) ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 10/2017 AND CLEARLY INDICATE SUPERIMPOSED LOADS.
- 14) #5 REINFORCING BARS (GRADE 40) ARE TO SET APPROX. 1'-02" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #6. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.
- 15) MANUFACTURER: POWERS STEEL, 4118 E. ELWOOD PHOENIX, AZ 85040 PH# (602) 437-1160 FAX# (602) 437-5409
- 16) TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
- FLORIDA BUILDING CODE
 - NASPEC AISI LIGHT GAGE
 - COLD FORMED STEEL DESIGN - 2012
 - AISC 530-13/AISC 5-13/TMS 402-13
- TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.
- STRUCTURAL ENGINEER FOR THESE LINTELS IS: S.E. CONSULTANTS, INC. 5800 E. THOMAS RD. SUITE 103 SCOTTSDALE, AZ 85251 PHONE (480) 946-2010 FAX (480) 946-1909
- IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.
- 17) INSTALLATION:
- POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES. SET TO PROPER LINE AND LEVEL. PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.

- 1) LAY WALL TO REQUIRED HEIGHT AND OPENING.
- 2) Set LinTEL on block with 8" of bearing each end, minimum 4" - see specification note #5.
- 3) Apply bead joint on front and back of block. Apply bead joint on end of block.
- 4) Place LinTEL on block level and square. Proceed as needed with the next course of block.
- 5) Shore LinTEL as required to compensate for dead load deflection on non-cured masonry and grout.
- 6) Shore LinTEL prior to laying block and grouting.
- 7) If it is recommended to shore linTEL in the middle of spans greater than 8'-0" and less than 15'-0". On spans greater than 16'-0" use 2 shored spacers equal distance apart at approximately 5'-4" spacing. On spans greater than 16'-0" place shoring at 8'-0" centers. Make sure shoring is square to LinTEL and secure. Make sure shoring supports the entire width of the bottom of the LinTEL. (see manufacturer's shoring details).
- 8) Rod grout adequately to ensure consolidation of grout (no air pockets).
- 9) Place top #5 rebar grade 40 Set 1.5' from top of all LinTEL designs and in some cases in the bottom of the LinTEL as shown on Load Tables. (see manufacturer's rebar details).

PowerBox8 STEEL LINTELS

NOTE: NO SCALE.

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PowerBox8 // Lintels // 8" block width LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT) GRAVITY LOAD TABLE (3000 psi grout) ALL LOADS ARE SUPERIMPOSED 20ga. < 16'-0" span // 16ga. >= 16'-0" span											
SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 topbot	PSbox8-12" #5 top	PSbox8-12" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-24" #5 top	PSbox8-24" #5 topbot	PSbox8-24" #5 top
1'-0"	5568	5568	7369	7369	9170	9170	12772	12772			
2'-2"	3836	3836	5074	5074	6313	6313	8789	8789			
2'-6"	1916	1916	2529	2529	3107	3107	4107	4107			
3'-2"	2606	2606	3444	3444	4283	4283	5960	5960			
4'-0"	2051	2051	2709	2709	3366	3366	4682	4682			
4'-6"	1816	1816	2391	2391	2986	2986	4143	4143			
5'-2"	1574	1574	2077	2077	2580	2580	3596	3596			
6'-2"	1291	1309	1726	1726	2143	2143	2977	2977			
7'-2"	1069	1089	1446	1446	1874	1874	2580	2580			
8'-0"	743	743	996	1311	1131	1131	1625	2255	2255	2255	
9'-2"	552	552	760	1133	813	1133	1404	1946	1946	1946	
10'-0"	454	454	629	977	664	964	1164	1616	1616	1616	
11'-2"	352	352	492	766	513	766	1045	1446	1446	1446	
12'-0"	297	297	418	652	436	652	914	1264	1264	1264	
13'-0"	239	239	328	511	359	511	756	1045	1045	1045	
14'-0"	203	203	282	456	312	456	652	914	914	914	
15'-0"	175	175	244	398	274	398	562	782	782	782	
16'-0"	157	157	211	358	240	358	519	716	716	716	
18'-0"	123	123	162	260	186	260	365	519	519	519	
20'-0"	104	104	145	226	165	226	318	444	444	444	
22'-0"	76	76	110	147	119	147	234	327	327	327	
24'-0"											
26'-0"											

PowerBox8 // Lintels // 8" block width LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT) LATERAL LOAD TABLE (3000 psi grout) ALL LOADS ARE SUPERIMPOSED 20ga. < 16'-0" span // 16ga. >= 16'-0" span											
SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 topbot	PSbox8-12" #5 top	PSbox8-12" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-24" #5 top	PSbox8-24" #5 topbot	PSbox8-24" #5 top
1'-0"	3256	3256	4097	4097	4960	4960	6732	6732			
2'-2"	2254	2254	2836	2836	3434	3434	4661	4661			
2'-6"	1832	1832	2340	2340	2836	2836	3836	3836			
3'-2"	1543	1543	1941	1941	2349	2349	3189	3189			
4'-0"	1221	1221	1536	1536	1860	1860	2524	2524			
4'-6"	1085	1085	1363	1363	1653	1653	2244	2244			
5'-2"	945	945	1189	1189	1440	1440	1954	1954			
6'-2"	792	792	996	996	1206	1206	1637	1637			
7'-2"	698	698	878	878	1086	1086	1463	1463			
8'-0"	611	611	738	749	822	838	974	1000			
9'-2"	492	492	586	570	626	638	742	762			
10'-0"	417	417	492	476	519	534	630	649			
11'-2"	331	334	378	384	422	430	500	513			
12'-0"	287	289	326	333	366	373	433	444			
13'-0"	251	254	286	292	318	325	386	399			
14'-0"	212	214	246	250	276	282	331	340			
15'-0"	186	188	214	218	240	244	286	298			
16'-0"	159	162	186	190	212	216	258	269			
18'-0"	132	135	158	162	186	190	216	219			
20'-0"	108	110	132	135	158	162	186	186			
22'-0"	86	88	108	110	132	135	158	158			
24'-0"											
26'-0"											

PowerBox8 // Lintels // 8" block width LINTEL LOAD TABLE (IN POUNDS PER LINEAL FOOT) UPLIFT LOAD TABLE (3000 psi grout) ALL LOADS ARE SUPERIMPOSED 20ga. < 16'-0" span // 16ga. >= 16'-0" span											
SPAN (ft)	PSbox8-8" #5 top	PSbox8-8" #5 topbot	PSbox8-12" #5 top	PSbox8-12" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-16" #5 top	PSbox8-16" #5 topbot	PSbox8-24" #5 top	PSbox8-24" #5 topbot	PSbox8-24" #5 top
1'-0"	5637	5637	7585	7585	9561	9561	12877	12877			
2'-2"	3914	3914	5014	5014	6261	6261	8420	8420			
2'-6"	3187	3187	4289	4289	5408	5408	7073	7073			
3'-2"	2689	2689	3620	3620	4565	4565	6478	6478			
4'-0"	2136	2136	2877	2877	3629	3629	5150	5150			
4'-6"	1903	1903	2563	2563	3233	3233	4589	4589			
5'-2"	1662	1662	2239	2239	2825	2825	4010	4010			
6'-2"	1398	1398	1885	1885	2378	2378	3376	3376			
7'-2"	1236	1236	1667	1667	2103	2103	2987	2987			
8'-0"	956	956	1365	1365	1703	1703	2387	2387			
9'-2"	799	799	1133	1133	1443	1443	1943	1943			
10'-0"	626	626	892	892	1115	1115	1565	1565			
11'-2"	509	509	726	726	908	908	1275	1275			
12'-0"	446	446	636	636	796	796	1118	1118			
13'-0"	404	404	576	576	721	721	1014	1014			
14'-0"	368	368	525	525	657	657	925	925			
15'-0"	337	337	481	481	603	603	849	849			
16'-0"	347	347	461	461	558	558	754	754			
18'-0"	282	282	376	376	456	456	618	618			
19'-0"	255	255	353	353	429	429	582	582			
20'-0"	223	223	298	298	363	363	494	494			
22'-0"	191	191	257	257	313	313	428	428			
24'-0"											
26'-0"											

NOTE: Above loads include 1/3 increase for wind.

All linTEls greater than 22'-0" in length will require (2) #5 bars top or (2) #5 bars top & bottom.

TABLE IS PARTIAL TABLE PER POWER STEEL & WIRE - FLORIDA LOAD TABLES date: 10/2017

NOTE: Above loads include 1/3 increase for wind.

All linTEls greater than 22'-0" in length will require (2) #5 bars top or (2) #5 bars top & bottom.

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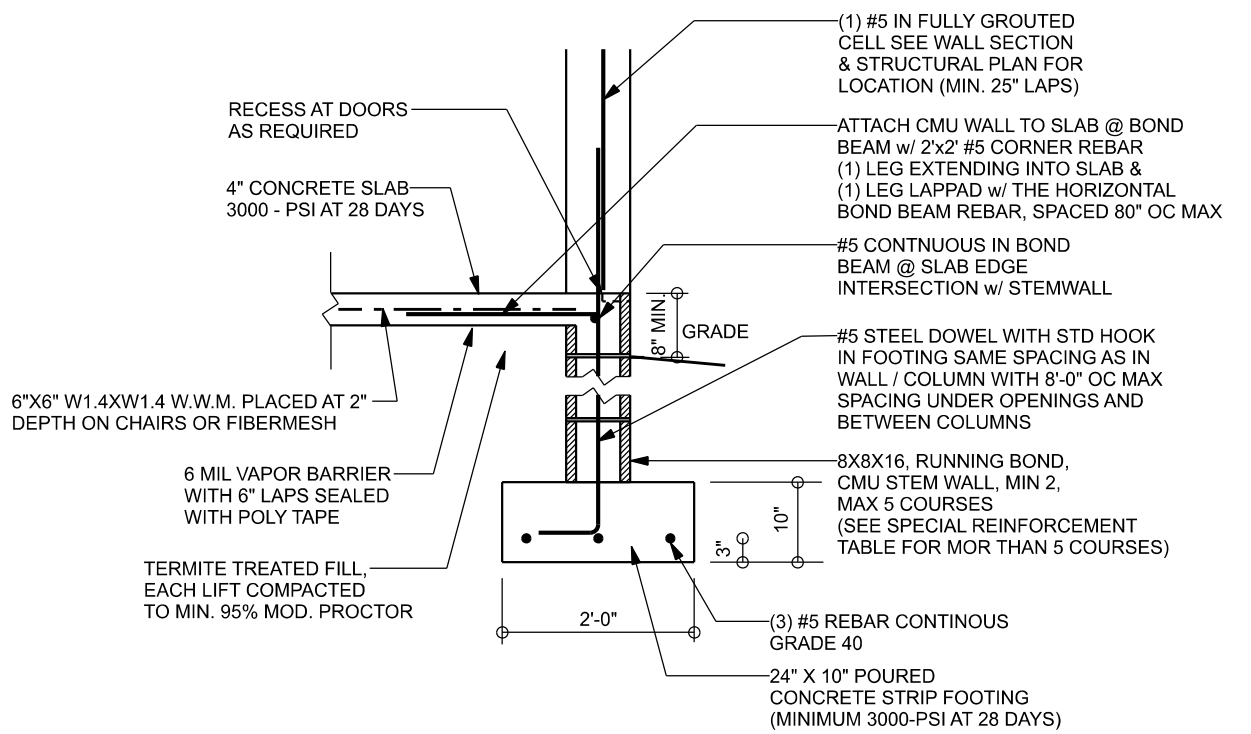
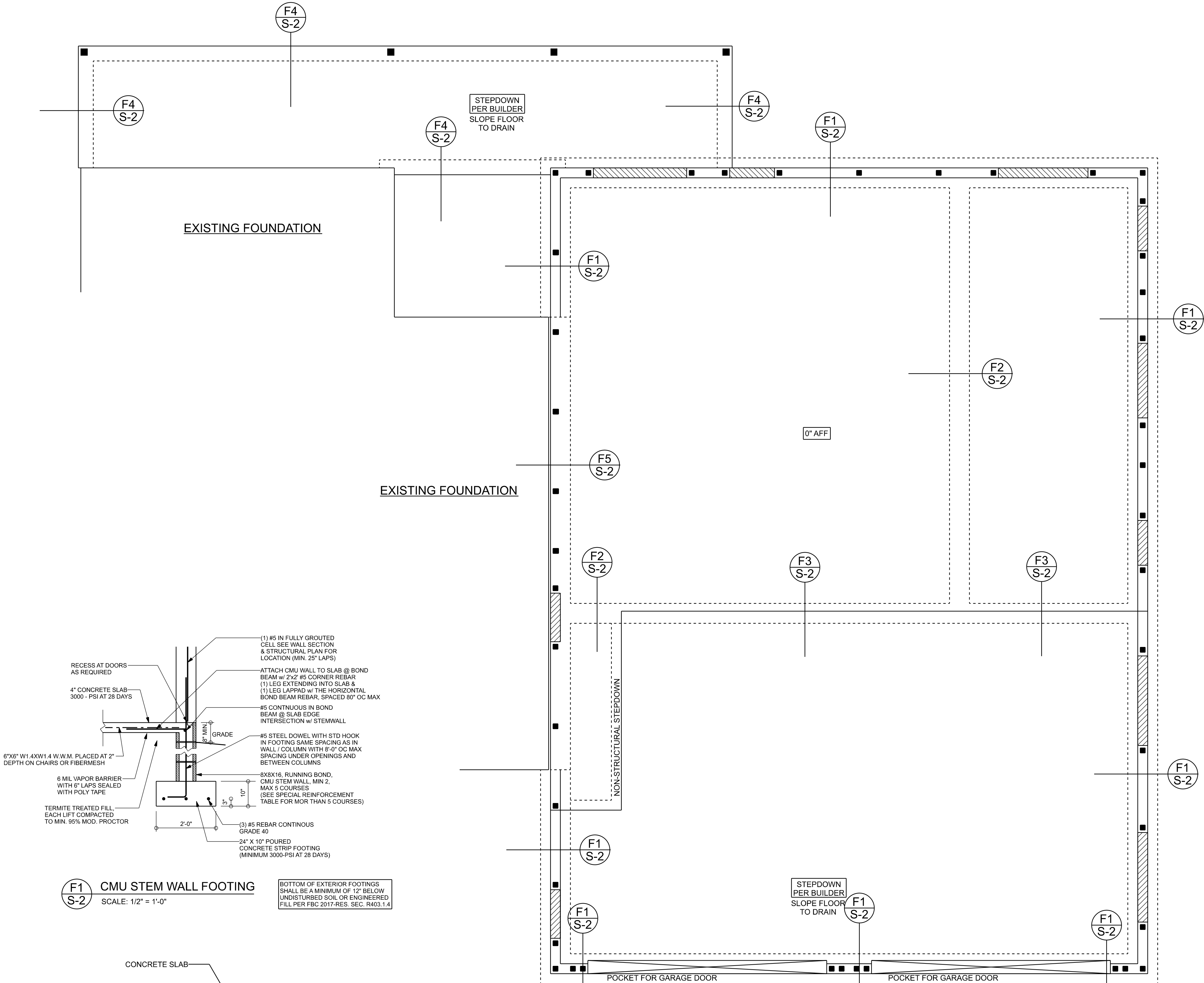
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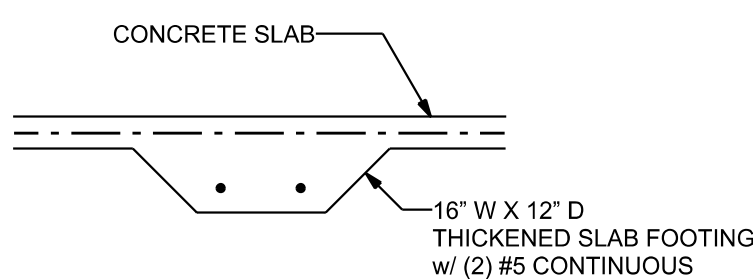
TALL STEM WALL TABLE: The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Duowall ladder reinforcement at 16"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.							
STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48

MASONRY NOTE: MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.	
ACI 530.1-02 Section	Specific Requirements
1.4A Compressive strength	8" block bearing walls F'm = 1500 psi
2.1 Mortar	ASTM C 270, Type N, UNO
2.2 Grout	ASTM C 476, admixtures require approval
2.3 CMU standard	ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block
2.3 Clay brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"
2.4 Reinforcing bars, #3 - #11	ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5)
2.4F Coating for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A305, Class GB0, 0.60 oz/lb or 304SS
2.4F Coating for corrosion protection	Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb or 304SS
3.3.E.2 Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.
3.3.E.7 Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.

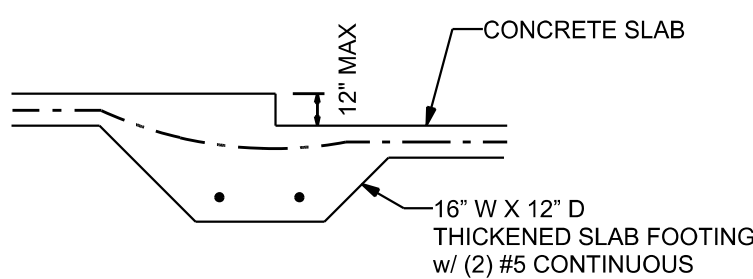


F1 S-2 CMU STEM WALL FOOTING
SCALE: 1/2" = 1'-0"

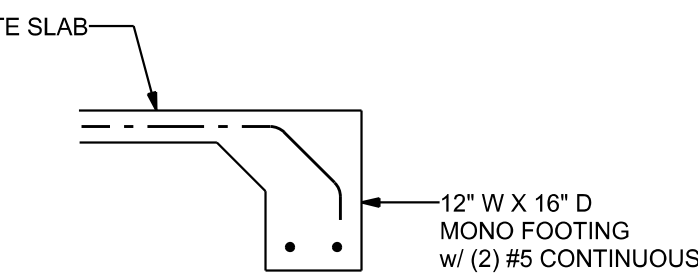
BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC 2017-RES. SEC. R403.1.4



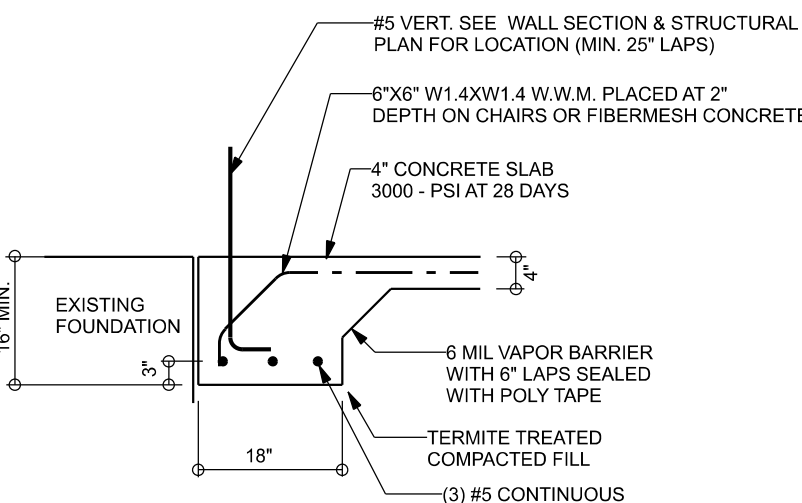
F2 S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



F3 S-2 INTERIOR BEARING STEP FOOTING
SCALE: 1/2" = 1'-0"



F4 S-2 PORCH MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



F5 S-2 MONOLITHIC FOOTING @ EXISTING
SCALE: 1/2" = 1'-0"

FOUNDATION NOTES	
FN - 1	DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, P.E. IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.
FN - 2	CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWING THE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN.
FN - 3	THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED w/ 3#X14-14-4 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE; 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITES, TREATED & COMPACTED FILL.

Bryan Zecher Homes, Inc

Read & Susan Kellner

PROJECT ADDRESS:
SW Mortgage Lane
Lake City, Florida

Mark Disosway FL PE 53915
This item has been digitally signed and sealed by Mark Disosway PE on digital signature date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

C-US, O=Florida, dnQualifier=A01410C000017E97DE07CA000746F0, CN=Mark d Disosway
2024-12-03 20:00:26

DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

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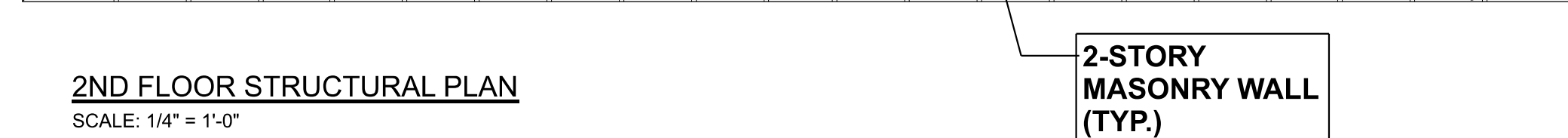
CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 8th Edition Florida Building Code Residential (2023) to the best of my knowledge.

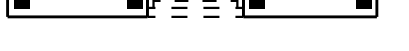
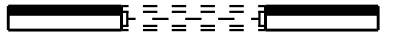
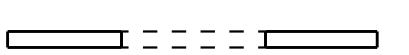
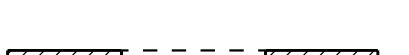
LIMITATION: This design is valid for one building, at specified location.

Mark Disosway P.E.
163 SW Midtown Place
Suite 103
Lake City, Florida 32025
386.754.5419
disoswaydesign@gmail.com

JOB NUMBER:
241248

S-2
OF 3 SHEETS



	EXTERIOR WALL (CMU)
	EXTERIOR WALL (WOOD FRAME)
	INTERIOR NON-LOAD BEARING WALL
	INTERIOR LOAD BEARING WALL w/ NO UPLIFT
	INTERIOR LOAD BEARING WALL w/ UPLIFT

PROJECT ADDRESS:
SW Montague Lane
Lake City, Florida

Mark Disoway FL PE 53915

This item has been digitally signed and sealed by Mark Disoway PE on digital signature date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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dnQualifier=+1
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Disoway
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DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

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disoswaydesign@gmail.com

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S-3 OF 3 SHEETS