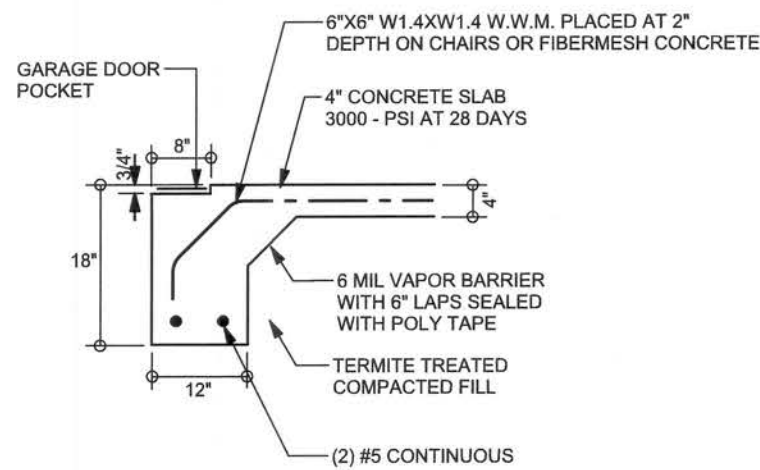
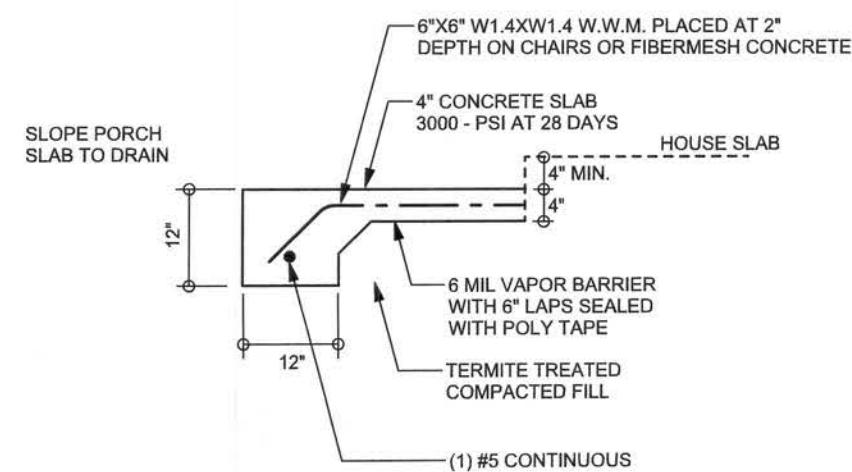


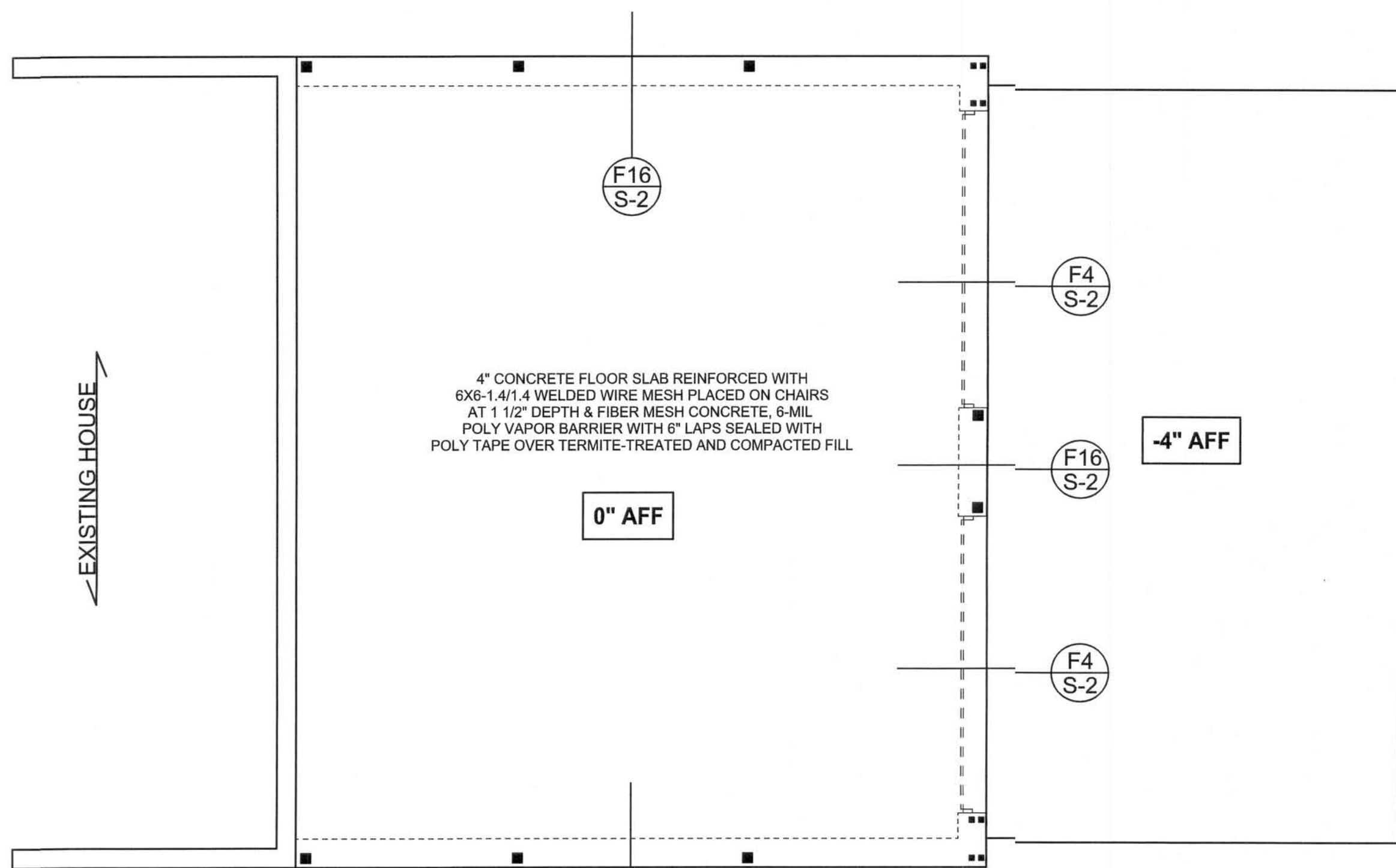
F16 MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



F4 GARAGE DOOR FOOTING
SCALE: 1/2" = 1'-0"



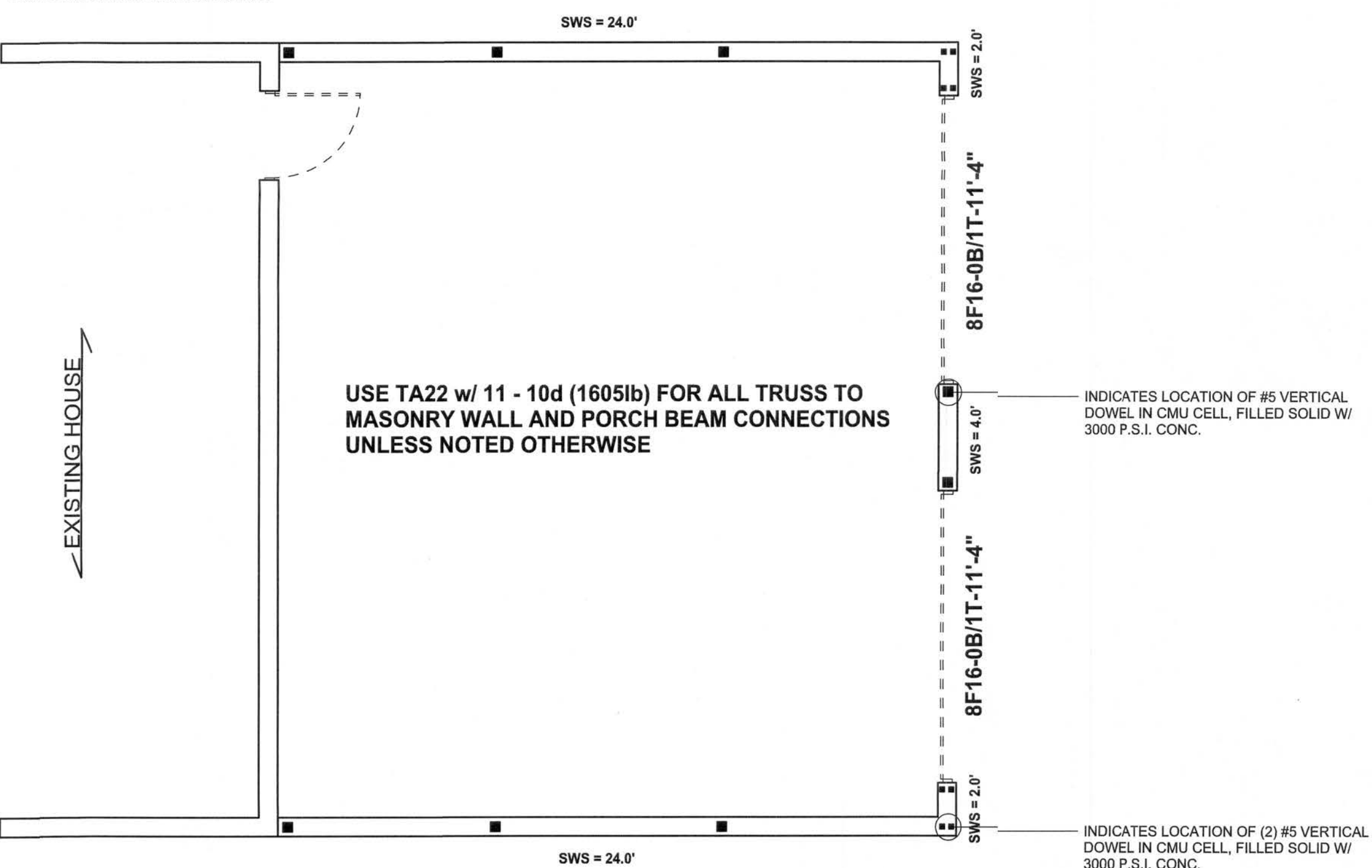
F5 PORCH FOOTING
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS



STRUCTURAL PLAN

SCALE: 1/4" = 1'-0"

STRUCTURAL PLAN NOTES

- ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP#2 (U.N.O.)
- ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI-103, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

DOOR & WINDOW BUCK ATTACHMENT

- TAPCON IN FACE OF CMU 2 1/2" MIN. EDGE DISTANCE 1 1/4" MIN. EMBEDMENT 3" MIN. SPACING
- WINDOWS & DOORS UP TO 6'X8"
- 1/16" TAPCONS @ 2' O.C. 1/4" TAPCONS @ 3' O.C.
- WINDOWS & DOORS UP TO 8'X12"
- 1/16" TAPCONS @ 16" O.C. 1/4" TAPCONS @ 24" O.C.
- SLIDERS UP TO 8'X20"
- 1/16" TAPCONS @ 12" O.C. 1/4" TAPCONS @ 18" O.C.
- GARAGE DOOR UP TO 10'W
- (2) 3/16" TAPCONS & 16" O.C. (2) 1/4" TAPCONS & 24" O.C.
- GARAGE DOOR UP TO 18'W
- (2) 3/16" TAPCONS & 8" O.C. (2) 1/4" TAPCONS & 12" O.C.

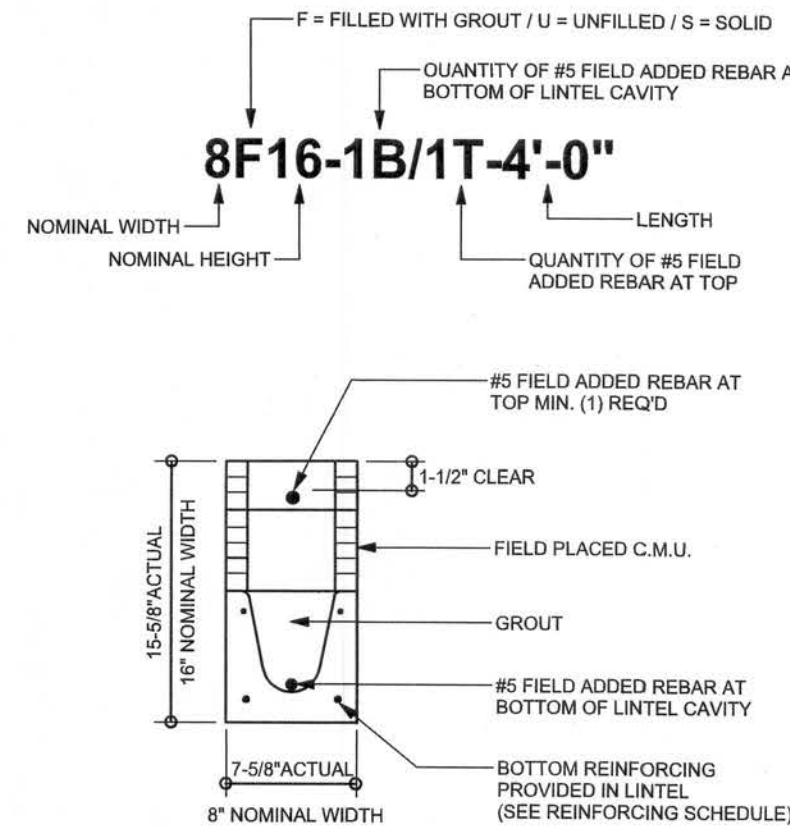
MATERIALS

1. Fc 8" precast lintel = 3500 psi
2. Fc prestressed lintel = 6000 psi
3. Grout per ASTM C476 Fc = 3000 psi w/ maximum 3/8 inch aggregate & 8 to 11 inch slump
4. Concrete Masonry Units (CMU) per ASTM C90 minimum net area compressive strength = 1900 psi
5. Rebar per ASTM A615 grade 60
6. Prestressing strand per ASTM A416 grade 270 low relaxation
7. Mortar per ASTM C270 type M or S

GENERAL NOTES

1. Provide full mortar bed and head joints.
2. Shore filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural documents.
4. U-Intels are manufactured with 5 1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180 deflection.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load rating based on rational design analysis per ACI 318 and ACI 530
10. Product Approvals: Miami-Dade County, Florida No. 03-0006.05
11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-298 or other approved coating.
12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:
Applied vertical load + Applied horizontal load / Safe vertical load + Safe horizontal load ≤ 1.0
13. Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right:

TYPE DESIGNATION



SAFE LOAD TABLE NOTES

1. All values based on minimum 4 inch nominal bearing.
- Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6 1/2 inches.
2. N.R. = Not Rated
3. Safe loads are superimposed allowable loads.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. One #7 rebar may be substituted for two #5 rebars in 8" lintels only
6. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.
7. For composite lintel heights not shown, use safe load from next lower height shown.
8. For lintel lengths not shown, use safe load from next longest length shown
9. All safe loads in units of pounds per linear foot
10. All safe loads based on simply supported span
11. The number in the parenthesis indicates the percent reduction for grade 40 field added rebar.
Example 7'-6" lintel type 8F32-1B safe gravity load = 6472(0.0469) = 1501.0781; w/ 15% reduction 6472 * .85 = 5501 plf

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT					
		8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F32-0B
2'-10" (34")	PRECAST	2231	3069	4605	6113	7547	8074
3'-6" (42")	PRECAST	2231	3069	4605	6113	7547	8074
4'-0" (48")	PRECAST	1966	2693	4605	6113	7547	8074
4'-6" (54")	PRECAST	1599	1969	2110	2931	3753	4576
5'-4" (64")	PRECAST	1217	1218	1218	1218	1218	1218
5'-10" (70")	PRECAST	1062	1105	1173	1531	2290	2549
6'-8" (78")	PRECAST	908	1238	2177	3480	5301	5707
7'-6" (90")	PRECAST	743	1011	1729	2632	4205	4698
9'-4" (112")	PRECAST	554	699	1160	1625	2564	3486
10'-6" (126")	PRECAST	475	752	1245	1843	2554	3486
11'-4" (136")	PRECAST	362	535	890	1247	2093	2777
12'-0" (144")	PRECAST	337	540	873	1254	1984	2193
13'-4" (160")	PRECAST	296	471	755	1075	1428	1838
14'-0" (168")	PRECAST	279	442	706	1002	1326	1697
14'-8" (176")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
15'-4" (184")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
17'-4" (208")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
19'-4" (232")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
21'-4" (256")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
22'-0" (264")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
24'-0" (288")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F32-1T
		8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F32-2T
2'-10" (34")	PRECAST	1972	3173	4460	5747	7034	8321
3'-6" (42")	PRECAST	1569	2524	3547	4569	5591	6613
4'-0" (48")	PRECAST	1363	2192	3079	3966	4853	5740
4'-6" (54")	PRECAST	1207	1940	2724	3508	4292	5077
5'-4" (64")	PRECAST	1016	1632	2290	2949	3607	4265
5'-10" (70")	PRECAST	909	1492	2093	2694	3295	3897
6'-8" (78")	PRECAST	829	1492	2093	2694	3295	3897
7'-6" (90")	PRECAST	727	1166	1634	2102	2571	3039
9'-4" (112")	PRECAST	591	880	1133	1471	1811	2152
10'-6" (126")	PRECAST	530	886	1183	1528	1865	2204
11'-4" (136")	PRECAST	474	855	1145	1492	1829	2172
12'-0" (144")	PRECAST	470	855	1145	1492	1829	2172
13'-4" (160")	PRECAST	429	855	1145	1492	1829	2172
14'-0" (168")	PRECAST	384	855	1145	1492	1829	2172
14'-8" (176")	PRESTRESSED	239	323	518	671	823	976
15'-4" (184")	PRESTRESSED	224	302	485	628	767	909
17'-4" (208")	PRESTRESSED	187	255	404	520	637	754
19'-4" (232")	PRESTRESSED	162	222	347	446	546	646
21'-4" (256")	PRESTRESSED	142	198	306	393	480	567
22'-0" (264")	PRESTRESSED	137	192	295	378	461	545
24'-0" (288")	PRESTRESSED	124	175	267	341	416	491

SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	8R8-0B	8R12-0B	8R16-0B	8R20-0B	8R24-0B	8R32-0B
		8R8-1B	8R12-1B	8R16-1B	8R20-1B	8R24-1B	8R32-1B
4'-4" (52")	PRECAST	1635	1749	3355	3280	4345	5421
4'-6" (54")	PRECAST	1494	1756	3699	3206	4345	5421
5'-8" (68")	PRECAST	866	920	1770	1716	2277	2839
5'-10" (70")	PRECAST	810	859	1653	1600	2124	2649
6'-8" (80")	PRECAST	797	901	1625	1600	2124	2649
7'-6" (90")	PRECAST	669	755	1490	1459	1976	2439
9'-8" (116")	PRECAST	411	526	999	1568	2253	3129

SAFE UPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	8R8-1T	8R12-1T	8R16-1T	8R20-1T	8R24-1T	8R32-1T
		8R8-2T	8R12-2T	8R16-2T	8R20-2T	8R24-2T	8R32-2T
4'-4" (52")	PRECAST	905	1748	2635	3522	4409	5296
4'-6" (54")	PRECAST	867	1675	2525	3374	4224	5074
5'-8" (68")	PRECAST	675	1301	1960	2618	3277	3935
5'-10" (70")	PRECAST	655	1262	1900	2538	3176	3815
6'-8" (80")	PRECAST	570	1097	1651	2204	2758	3312
7'-6" (90")	PRECAST	506	967	1462	1952	2442	2931
9'-8" (116")	PRECAST	395	491	931	1301	1640	1980

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REINFORCEMENT & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS

REVISIONS

NO.	DESCRIPTION	DATE

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER: Mark Discoway
P.E. No. 53915, 138 668, Lake City, FL
32056, 386-75-5419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Discoway, 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 section F301.2.1, Florida building code residents 2004, to the best of my knowledge.

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

MARK DISCOWAY
P.E. 53915

Mark Discoway
2010.07
SEAL

John Thomas

Eob Hubbel
Addition

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PRINTED DATE:
July 20, 2007

DRAWN BY:
David Discoway

CHECKED BY:

FINALS DATE:
20 / Jul / 07

JOB NUMBER:
707201

DRAWING NUMBER

S-2
OF 2 SHEETS