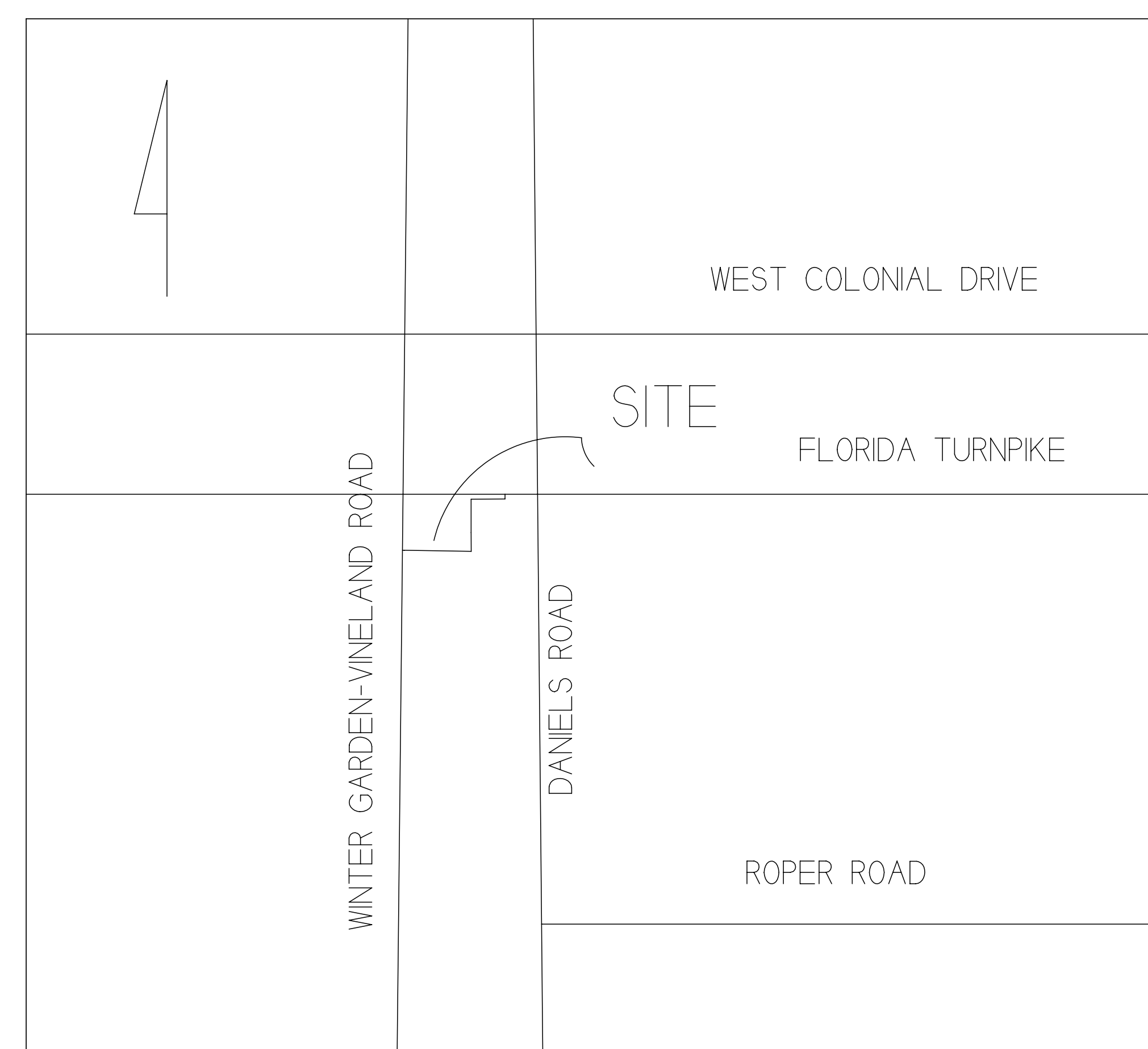


# FRIENDLY CAPITAL LLC WEST ORANGE BUSINESS CENTER PAD "B"

DRAWING INDEX	
CS	COVER SHEET/INFORMATION
A1	FOUNDATION PLAN
A2	FLOOR PLAN
A3	ELEVATIONS
A4	ROOF FRAMING PLAN
A5	ELECTRICAL/PRECAST
DI	DETAILS



LOCATION MAP

Parcel ID: 26-22-27-9147-00-020  
ADDRESS: 1309 WINTER GARDEN-VINELAND RD.

FIRE SERVICE	CITY OF WINTER GARDEN 17 E. PALMETTO STREET WINTER GARDEN FL 34787 TEL. (407) 656-4689
STORM WATER	CITY OF WINTER GARDEN 300 W. PLANT STREET WINTER GARDEN FL 34787 TEL. (407) 656-2256
REUSE	CITY OF WINTER GARDEN 300 W. PLANT STREET WINTER GARDEN FL 34787 TEL. (407) 656-4000
SANITARY SEWER	CITY OF WINTER GARDEN 300 W. PLANT STREET WINTER GARDEN FL 34787 TEL. (407) 656-4000
WATER	CITY OF WINTER GARDEN 300 W. PLANT STREET WINTER GARDEN FL 34787 TEL. (407) 656-4000
POWER	DUKE ENERGY 450 E. CROWN POINT ROAD WINTER GARDEN FL 34787 (407) 905-3300
TELEPHONE	CENTURY LINK P.O. BOX 770339 WINTER GARDEN FL 34777-0339 407-84-5300
CABLE	MR. MARVIN USRY BRIGHT HOUSE NETWORK 844 MAGUIRE ROAD OCCLEE FL 34709 (407) 532-8511
GAS	LAKE APPOKA NATURAL GAS 1320 VINELAND ROAD WINTER GARDEN FL 34787 TEL. (407) 656-2734

PROJECT TEAM	
OWNER:	FRIENDLY CAPITAL L.L.C. 418 E. MILLER STREET ORLANDO FL 32806 917-599-6161 LESLIE D HURST
CONTRACTOR:	WESTMONT CONSTRUCTION INC JIM RAHMAN 407-948-9168 CBC053092
ENGINEER:	<b>LP Structural Design LLC</b> P.E. NO. 47697 FL PROFESSIONAL ENGINEER 222 MAGNOLIA CIRCLE EUSTIS FL 32726 (352) 988-9854
CONSTRUCTION DOCUMENTS:	TBC ARCHITECTURAL SERVICES P O BOX 94 EUSTIS FL 32727 352-483-6597

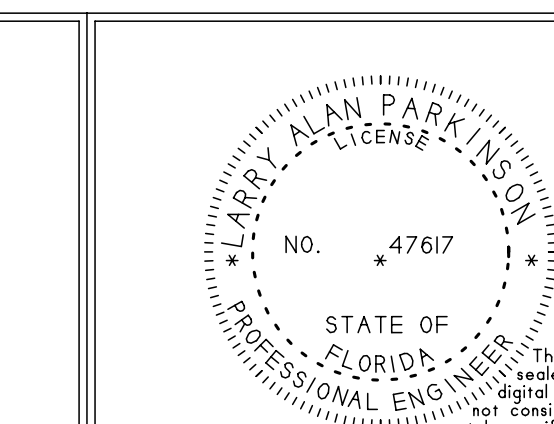
Sealed plans must be submitted to the Building Dept. within 60 days of the date of signing and sealing. After 60 days, plans may not be accurate for the location for which they are being submitted due to the building code changes of the building dept requiring new or updated details. Drafting printing and shipping charges will be assessed based on a case by case review.

In the best of our knowledge, these plans are drawn in comply with the owner's and/or contractor's specifications. Any changes made to the plans after plans are completed will be done at the owner's and/or contractor's expense and responsibility. The contractor shall verify all dimensions and details of the structure for accuracy. If B.C Services, LLC, or their architect will not be held liable for errors once construction has begun. While every effort has been made in the preparation of these plans, it is noted that the owner retains ultimate responsibility. The contractor must check all dimensions and other details prior to construction and be solely responsible therefor.

**DESIGN CRITERIA**  
THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH FBC 2020 7th EDITION AND NEC 2014 AND IS NOT IN WINDBORNE DESIGN REGION.  
BASIC WIND SPEED = 140 MPH  
WIND EXPOSURE CATEGORY = B  
INTERNAL PRESSURE COEFFICIENT = +/- 0.8  
FULLY ENCLOSED  
AVERAGE DESIGN WIND PRESSURE = 25 PSF  
OCCUPANCY CLASSIFICATION: R3 PER FBC30  
CONSTRUCTION TYPE I

**LP Structural Design LLC**  
P.E. NO. 47697  
FL PROFESSIONAL ENGINEER  
222 MAGNOLIA CIRCLE  
EUSTIS FL 32726 (352) 988-9854

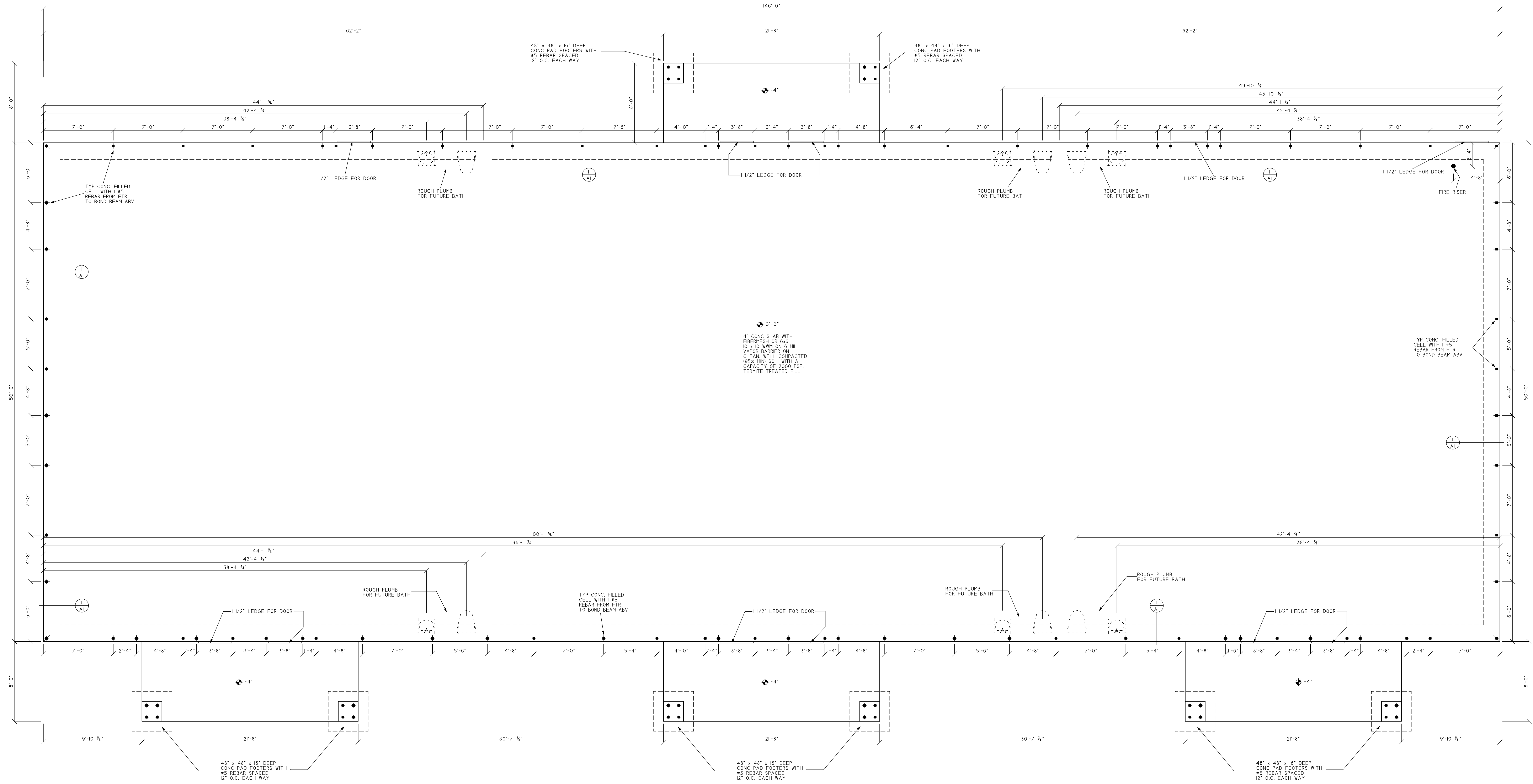
I hereby certify that I have reviewed this structure for accuracy of these plans, roof design, and that this building is in compliance with the requirements of the 7th edition FBC 2020.



This document has been electronically signed and sealed by Larry Dale Parkley, PE, using a digital signature. Printed copies of these plans are not valid unless they are signed and sealed by the engineer.

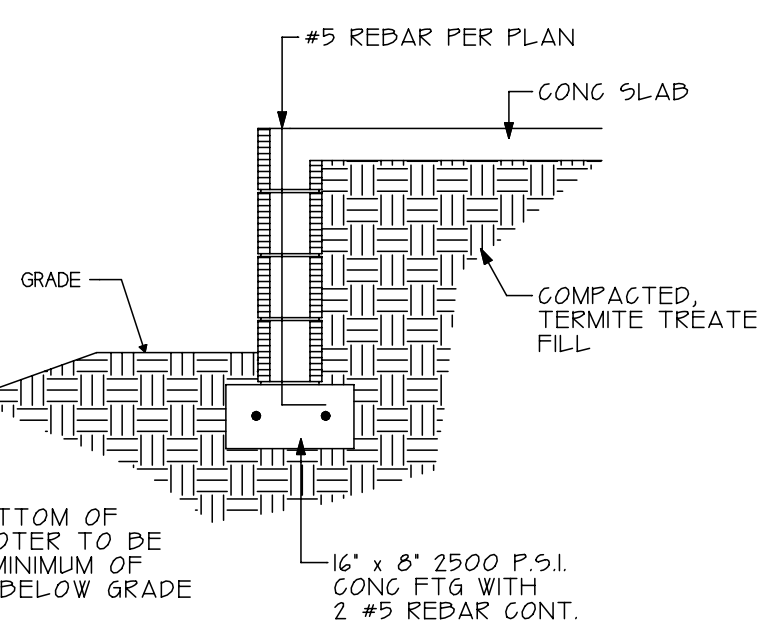
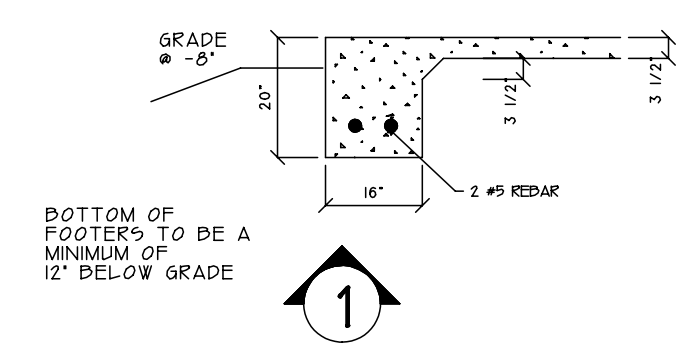


DRAWN BY:	PEM
DATE:	
SCALE:	1/4"=1'-0"
JOB:	WEST ORANGE BUSINESS CENTER PAD B
REV:	SHEET
SEAL:	CS



# FOUNDATION PLAN

SCALE 1/4" = 1'-0"



ALT STEM WALL FOOTER  
UP TO 4 COURSES

### GENERAL FOUNDATION NOTES:

1. ALL CONCRETE SLABS SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 2500 P.S.I. AT 28 DAYS. SLABS SHALL BE REINFORCED WITH FIBER MESH OR #6 @ 18" O.C. W/M. ON 6" HL VAPOR BARRIER OVER CLEAN COMPACTED FLL.
2. CONCRETE FOOTINGS SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 2500 P.S.I. AT 28 DAYS. REINFORCE FOOTINGS WITH #5 BARS AS INDICATED. ALL BARS CLEAN AND FREE FROM RUST AND SCALE. SPICE SHALL BE OVERLAP 35" MIN.
3. FOR CONCRETE BLOCK WALLS PROVIDE CONCRETE FILLED CELLS WITH #5 BAR VERTICALLY CONT' FROM FOOTING TO THE BEAM AT ALL CORNERS AND WHERE OTHERWISE NOTED AS PER FOUNDATION PLAN.
4. EXTEND SLAB 1/2" AT DOOR OPENINGS.
5. EXTEND SLAB 1/2" AND RECESS 3/4" FOR SLIDING GLASS DOOR TRACKS.
6. BOTTOM OF ALL EXTERIOR FOOTERS TO BE A MINIMUM OF 12" BELOW GRADE.

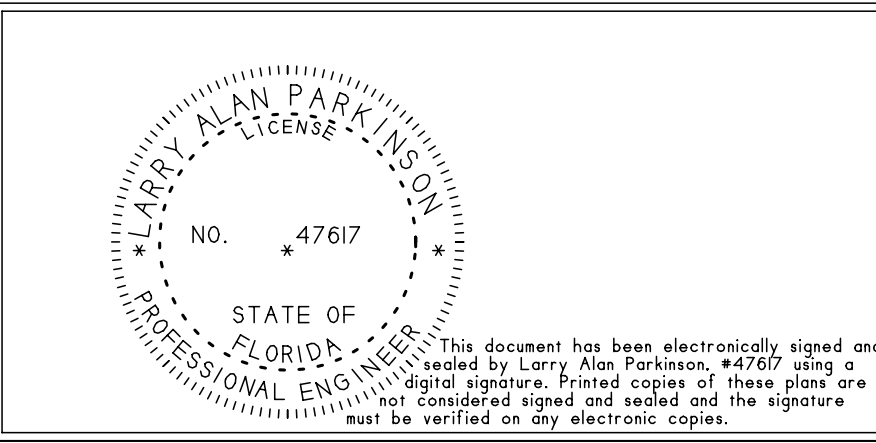
Sealed plans may be submitted to the Building Dept. within 60 days of the date of signing and sealing. After 60 days, plans may not be accurate for the location for which they are being submitted due to the building code changes of the building department creating new or updated details. Drafting printing and change charges will be assessed based on a case by case review.

In the best of our knowledge, these plans are drawn in conformity with the owner's and/or contractor's specifications. Any changes made to the plans after print are completed will be done at the owner's risk and responsibility. The contractor shall verify all dimensions and details of the structure for accuracy. If B.C. Services, LLC, or our field staff are to be held liable for errors once construction has begun, their every effort has been made in the preparation of these plans to avoid mistakes. The owner retains complete responsibility for errors. The contractor shall check all dimensions and other details prior to construction and be solely responsible thereafter.

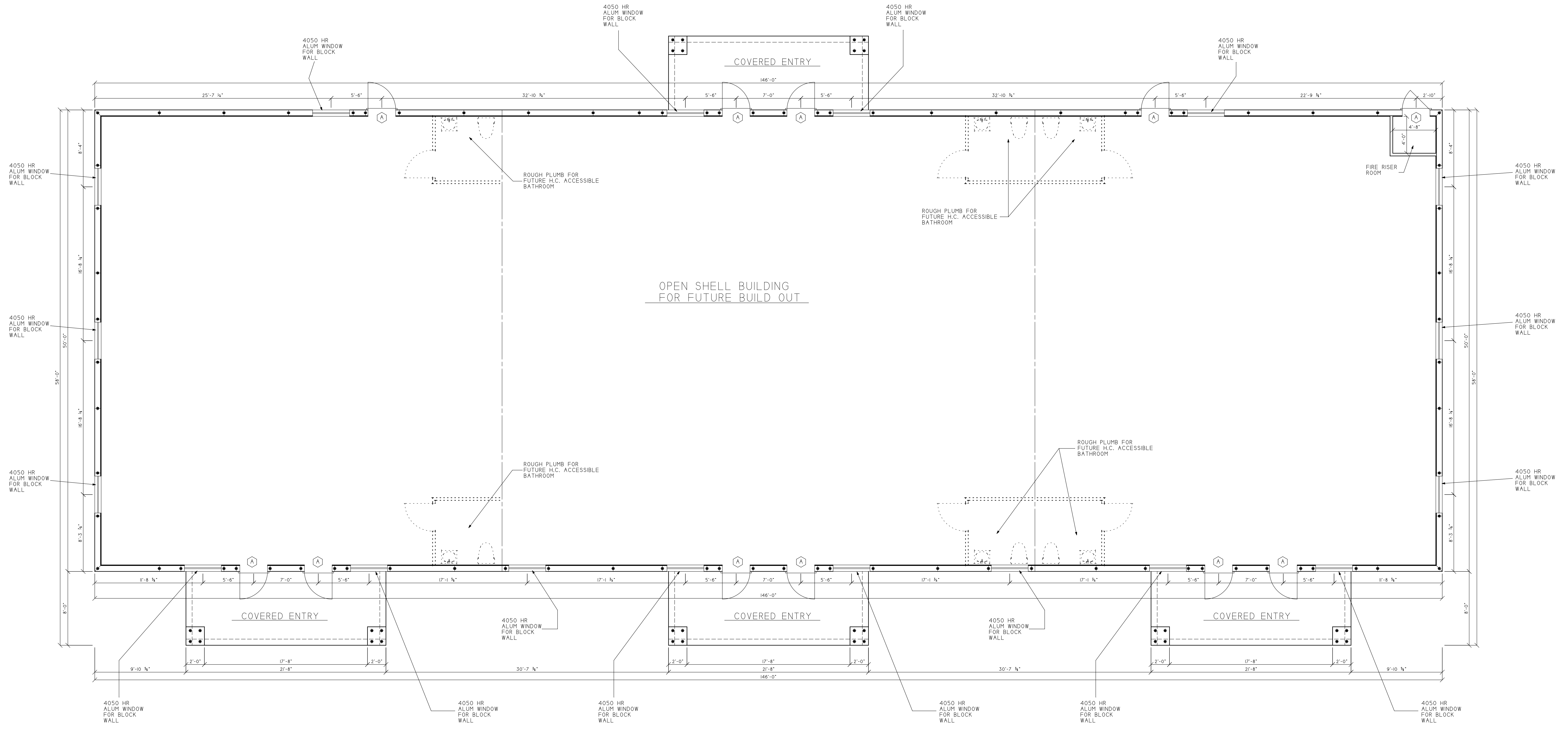
**DESIGN CRITERIA**  
THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH FBC 2020 7TH EDITION AND NEC 2014 AND IS NOT IN WINDSHINE DESIGN REGION.  
BASIC WIND SPEED = 140 MPH  
WIND EXPOSURE CATEGORY = II  
INTERNAL PRESSURE COEFFICIENT = +/- 0.8  
RISK CATEGORY = PER TABLE FBC 604.4  
AVERAGE DESIGN WIND PRESSURE = 25 PSF  
OCCUPANCY CLASSIFICATION = R3 PER FBC30 CONSTRUCTION TYPE I

**LP Structural Design LLC**  
P.E. NO. 4767  
FL PROFESSIONAL ENGINEER  
222 MAGNOLIA CIRCLE  
EUSTON FL 32740 (904) 908-9054

I hereby certify that I have reviewed this structure for adequacy of these walls, roof, and foundations and that this building is in compliance with the requirements of the 7th edition FBC 2020.



DRAWN BY: PEM  
DATE: 1/14/21  
SCALE: 1/4" = 1'-0"  
JOB: WEST ORANGE BUSINESS CENTER PAD D  
REV: SHEET AI  
SEAL:



**DOOR SCHEDULE:**  
Door Types:

- (A) 3'-0" X 7'-0" STEEL STORE FRONT GLASS DOOR
- (B) 3'-0" X 7'-0" INSULATED EXTERIOR STEEL DOOR WITH 8 X 20 VIEW LITE AND HOLLOW METAL FRAME.

BUILDING SHELL:	7300
ENTRIES:	692
TOTAL UNDER ROOF:	7992

# FLOOR PLAN

## PAD "B"

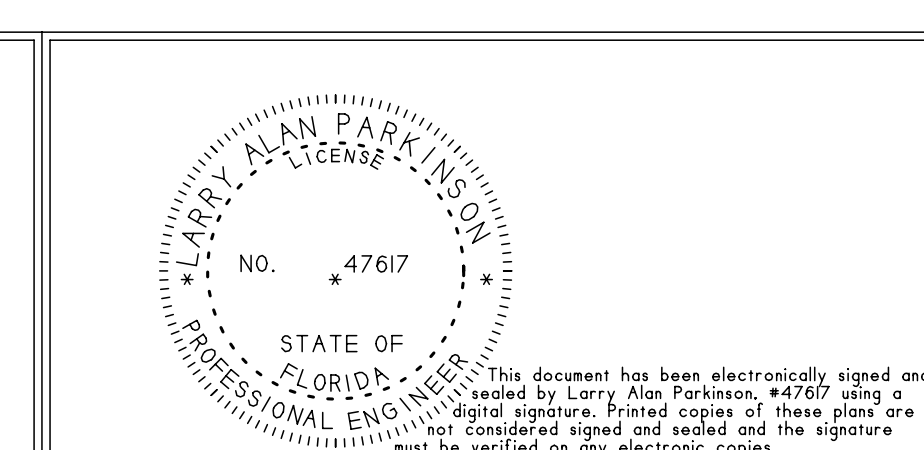
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In the best of our knowledge, these plans are drawn to comply with the owner's and/or contractor's specifications. Any changes made to the plans after print are completed will be done at the owner's and/or contractor's expense and responsibility. The contractor shall verify all dimensions and details of the drawings that are shown. If B.C. Services, LLC, or any third party will not be held liable for errors once construction has begun. While every effort has been made in the preparation of these plans, the user assumes the entire responsibility for their accuracy. The contractor shall check all dimensions and other details prior to construction and be solely responsible therefor.

**DESIGN CRITERIA**  
THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH FBC 2020 7th EDITION AND NEC 2014 AND IS NOT IN WINDSHINE DESIGN REGION.  
BASIC WIND SPEED = 140 MPH  
WIND EXPOSURE CATEGORY = II  
INTERNAL PRESSURE COEFFICIENT = +/- 0.8  
OCCUPANCY CLASSIFICATION: S3 PER FBCSD CONSTRUCTION TYPE I

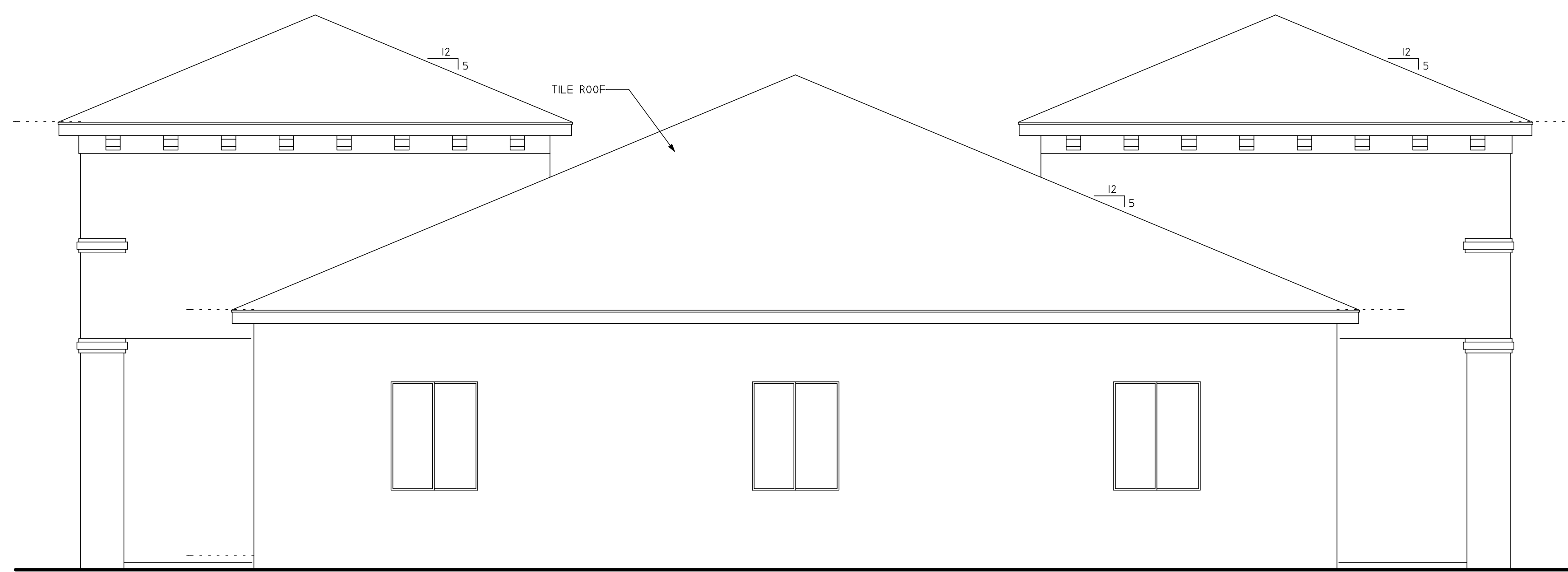
**LP Structural Design LLC**  
P.E. NO. 4767  
P.L. PROFESSIONAL ENGINEER  
232 MAGNOLIA CIRCLE  
EUSTON FL 32740 (904) 908-9054

I hereby certify that I have reviewed this structure for adequacy of these walls, roof, and foundations and that this building is in compliance with the requirements of the 7th edition FBC 2020.



**TBC SERVICES LLC**  
PHONE: (952) 483-6897  
EMAIL: TBCservices@TBCGMAIL.COM

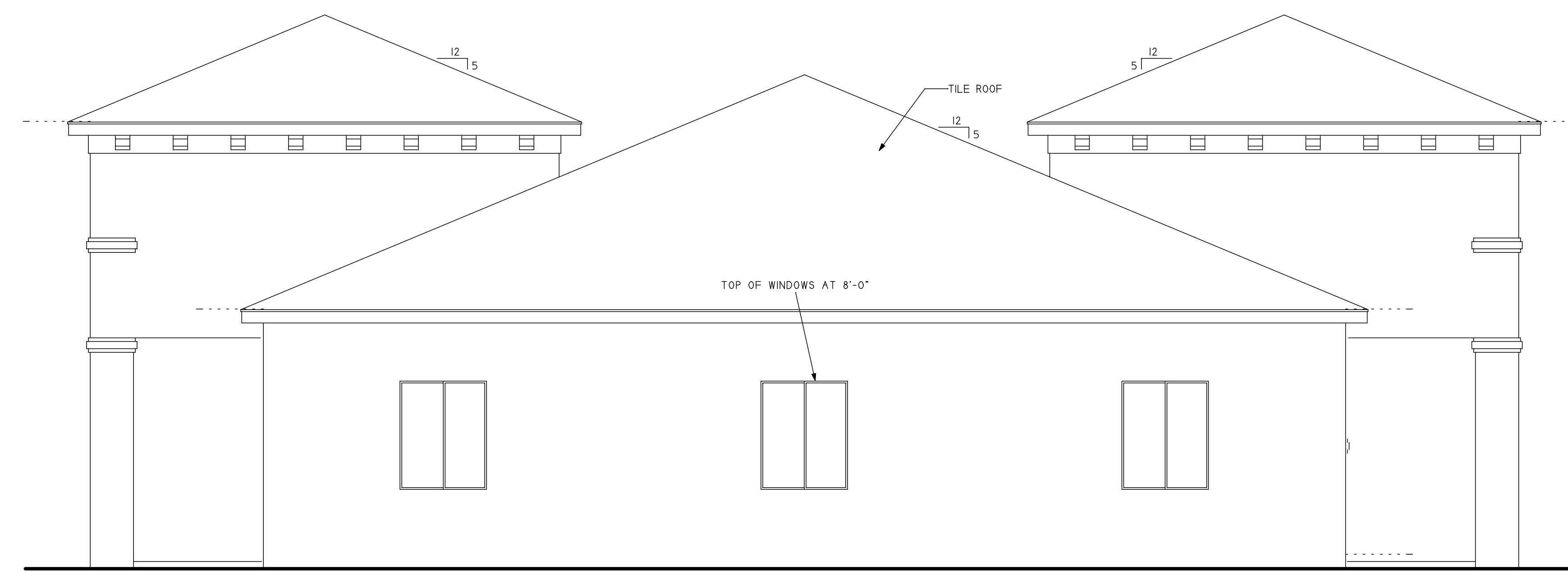
DRAWN BY: PEM  
DATE:  
SCALE: 1/4"=1'-0"  
JOB: WEST ORANGE BUSINESS CENTER PAD B  
REV: SHEET  
A2  
SEAL:



SIDE ELEVATION

SCALE 1/4" = 1'-0"

THE ATTIC INSULATION WILL BE SPRAY FOAM. THEREFORE, NO ATTIC VENTING IS REQUIRED



SIDE ELEVATION

SCALE 1/4" = 1'-0"

**Finish application**

5/8" STUCCO OVER 1/2" BLOCK WALLS PER ASTM C 925.

7/8" STUCCO OVER 1/2" PAPER BACKED EXPANDED DIAMOND MESH LATH OVER FRAME WALLS.

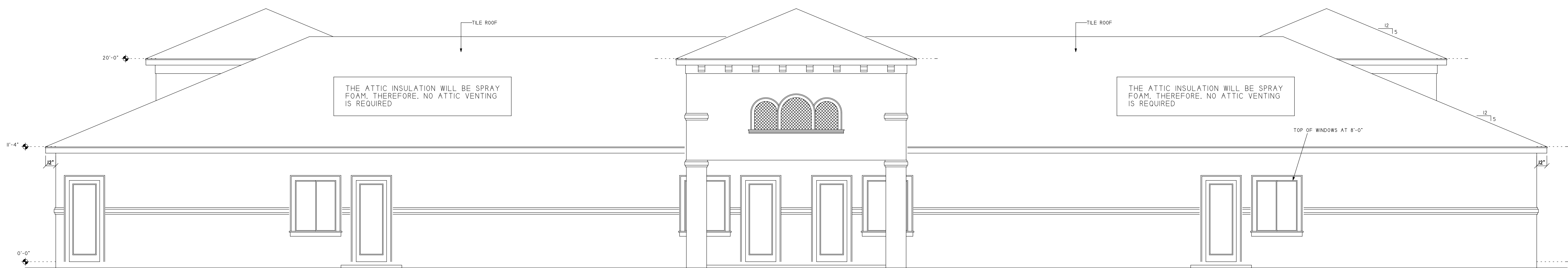
All lath and lath attachments shall be of corrosion-resistant material. Expanded metal mesh shall be oriented with 1/2" x 3/8" mesh bars a 2' x 2' grid or 3/8" x 3/8" mesh bars spaced to show 2" or as otherwise approved.

**Weep Screeds**

Minimum 1/2" thick sheet open corrosion-resistant weep screed or plastic weep screed with a metal vented attachment flange of 1/2" shall be provided at or below the plane of an exterior wall with a maximum of 1/2" above the exterior finish. The weep screed shall be placed a minimum of 4" above the earth or 2" above the finished grade. The weather-resistant barrier shall lap the attachment flange of the weep screed. The exterior lath shall cover and terminate at the attachment flange of the weep screed.

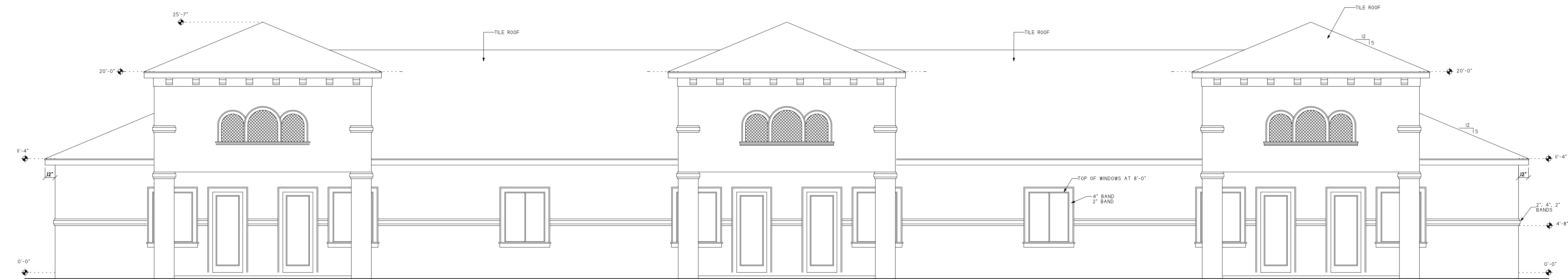
**Water Resistive Barrier**

The layer of 60 mil polyethylene film, free from holes and breaks, complying with ASTM D 226 for type one lath or other approved water resistive barrier shall be applied over the exterior wall. Each lath or material shall be applied horizontally, with the open face lapped over the lower lath. The film shall be 2 inches wide. Where joints occur, lath shall be lapped not less than 6 inches (12 inches). The film or other approved material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall assembly.



REAR ELEVATION

SCALE 1/4" = 1'-0"



FRONT ELEVATION

SCALE 1/4" = 1'-0"

THE ATTIC INSULATION WILL BE SPRAY FOAM. THEREFORE, NO ATTIC VENTING IS REQUIRED

**Finish application**

5/8" STUCCO OVER 1/2" BLOCK WALLS PER ASTM C 925.

7/8" STUCCO OVER 1/2" PAPER BACKED EXPANDED DIAMOND MESH LATH OVER FRAME WALLS.

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Sealed plans must be submitted to the Building Dept. within 60 days of the date of signing and sealing. After 60 days, plans may not be accepted for the location for which they are being submitted due to the building code changes of the building department or updated details. Drafting printing and shipping charges will be assessed based on a quote by case review.

To the best of our knowledge, these plans are drawn to comply with the owner's and contractor's specifications. Any changes made to the plans after print are completed at the risk of the owner and contractor. The contractor shall verify all dimensions and details of the structure before starting. If B.C. Services, LLC, or any third party will not be held liable for errors once construction has begun. While every effort has been made in the preparation of these plans, the user assumes all responsibility for their use. The contractor shall check all dimensions and other details prior to construction and be solely responsible therefor.

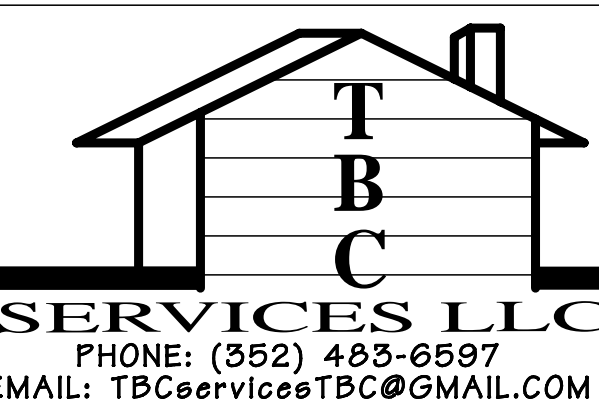
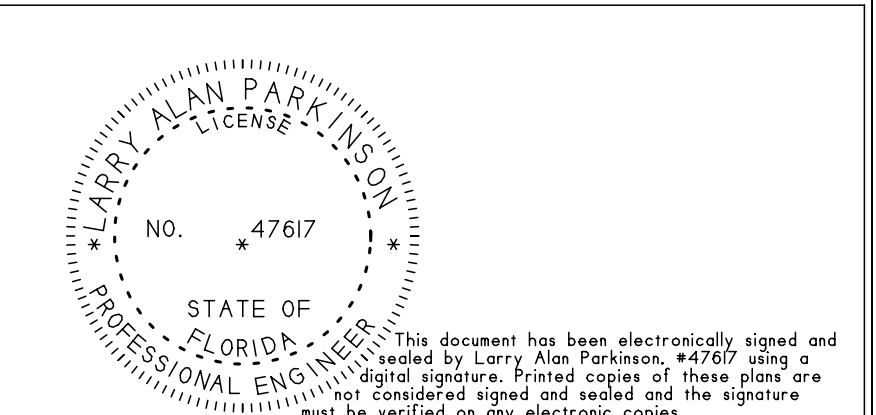
**DESIGN CRITERIA**

THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH FBC 2020 7th EDITION AND NEC 2014 AND IS NOT IN WINDSHINE DESIGN REGION.

BASIC WIND SPEED = 140 MPH  
 WIND EXPOSURE CATEGORY = B  
 WIND PROTECTION FACTOR = 1.0  
 WIND EXPOSURE CATEGORY = B  
 INTERNAL PRESSURE COEFFICIENT = +/- 0.8

**FULLY ENCLOSED**

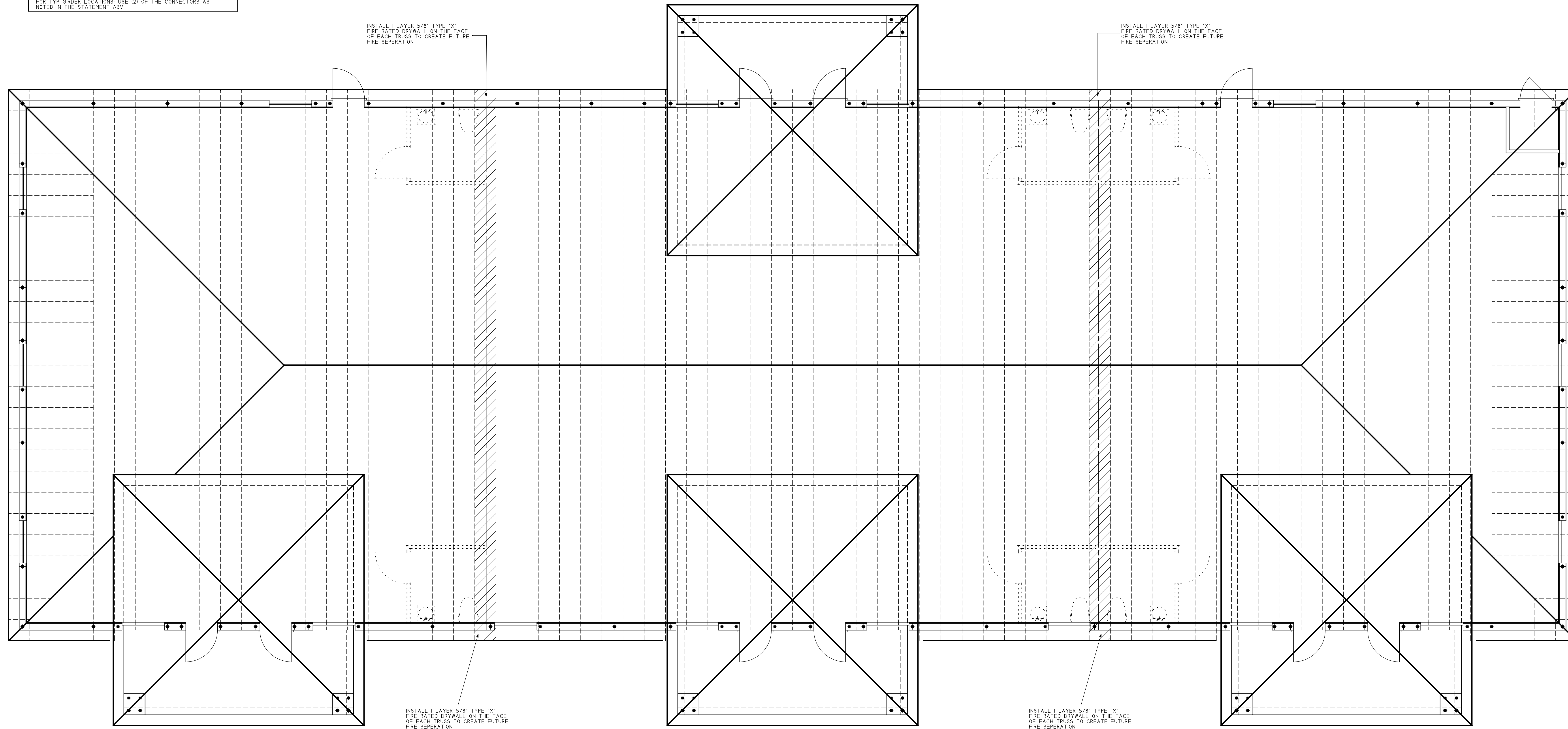
AVERAGE DESIGN WIND PRESSURE = 25 PSF  
 OCCUPANCY CLASSIFICATION: R3 PER FBC2020 CONSTRUCTION TYPE I



DRAWN BY: PEM  
 DATE: 1/14/21  
 SCALE: 1/4" = 1'-0"  
 JOB: WEST ORANGE BUSINESS CENTER PAD D  
 REV: SHEET  
 SEAL: A3



UNLESS NOTED OTHERWISE:  
 WHERE CONNECTOR NOT NOTED FOR TRUSS TO FRAME USE (C).  
 TRUSS TO BLOCK USE (D).  
 FOR TYP GRIDER LOCATIONS: USE (2) OF THE CONNECTORS AS  
 NOTED IN THE STATEMENT ABOVE.



# ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"

UNLESS NOTED OTHERWISE:  
 WHERE CONNECTOR NOT NOTED FOR TRUSS TO FRAME USE (C).  
 TRUSS TO BLOCK USE (D).  
 FOR TYP GRIDER LOCATIONS: USE (2) OF THE CONNECTORS AS  
 NOTED IN THE STATEMENT ABOVE.

## CONNECTOR SCHEDULE

CONNECTOR	FASTENERS	UPLIFT (lbs)
(1) MTT28B	(24) 16d AND 5/8 OR 3/4 ANCHOR BOLTS	4455
(2) HET20	1 PLY 100 10d x 15 2/3 PLY 100 16d	1805 (x2- 2500) 1805 (x2- 2500)
(3) MTS16	(14) 10d	860 (x2- 1720)
(4) MTS12	(14) 10d	860 (x2- 1720)
(5) LTT20B	(8) 16d AND 1/2, 5/8, OR 3/4 ANCHOR BOLTS	1750
(6) HTS20	(24) 10d x 1 1/2"	1450 (x2- 2800)
(7) HGT-2 or 3	(2) 3/4" ANCHORS	865
(8) SP-1	(6) 10d	585
(9) SP-2	(6) 10d	890
(10) SP-4	(6) 10d x 1 1/2"	735
(11) SP-6	(6) 10d x 1 1/2"	735
(12) LSTA2	(10) 10d	805
(13) LSTA24	(18) 10d	1235
(14) LSTA30	(22) 10d	1640
(15) LSTA36	(24) 10d	1640
(16) MSTA36	(26) 10d	2050
(17) HTT22	(32) 16d Sinkers + 5/8" A.BOLT	5250
(18) ABU44	(12) 16d + 5/8" A. BOLT	2200
(19) ABU66	(12) 16d + 5/8" A. BOLT	2300
(20) H10	(16) 8d x 1 1/2"	905
(21) ST-12	(10) 16d	945
(22) H2.5	(10) 8d	415
(23) H2.5A	(10) 8d	600

### ROOF SHEATHING NOTES

Minimum roof sheathing thickness with trusses spaced at 24" o.c.  
 Exposure B in 140 MPH, 7/16"  
 Exposure C and D in 140 MPH, 19/32"

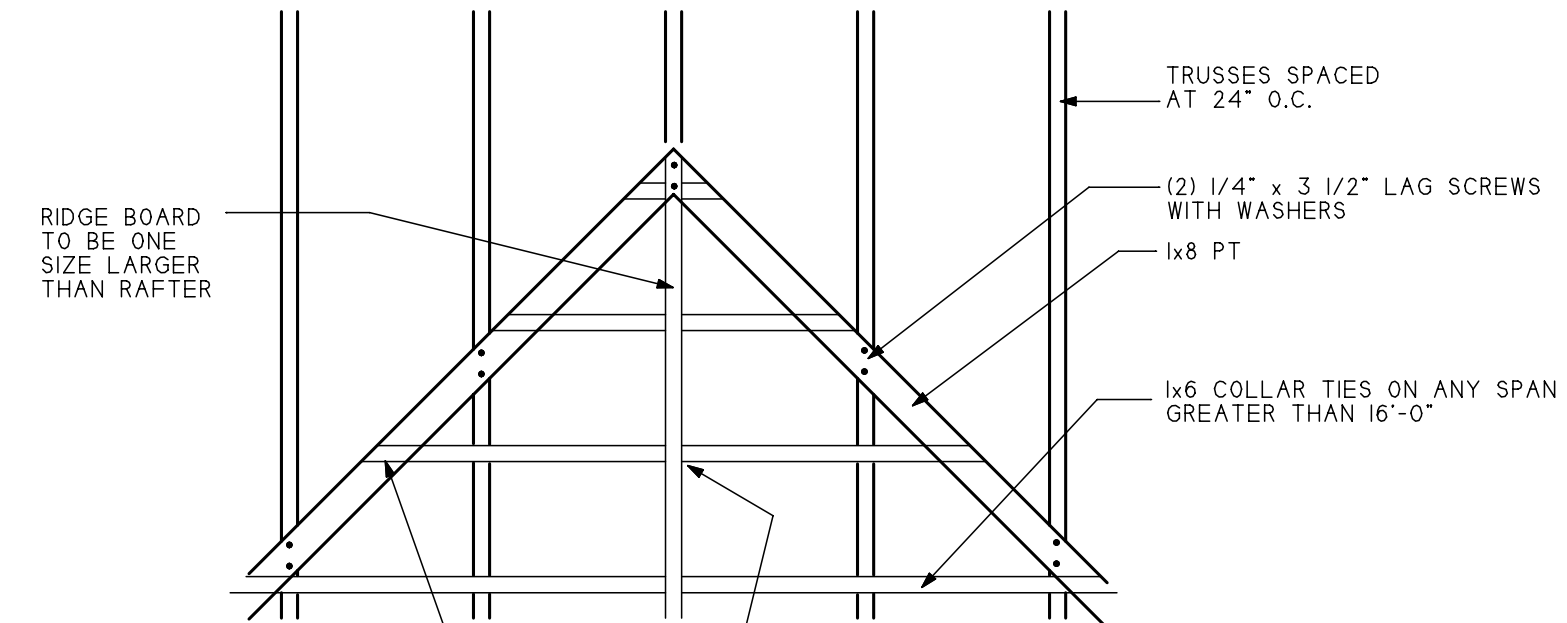
Roof Sheathing shall not overhang more than 9" beyond the gable end wall unless supported by gable overhang framing.

Sheathing shall be fastened to roof framing in accordance with table 2803.3.3.1 Where the sheathing thickness is 15/32" and less, sheathing shall be fastened with ASTM F1667 RSRS-02 (2 3/4" x 0.037) nails. Where the sheathing thickness is greater than 15/32" sheathing shall be fastened with ASTM F1667 RSRS-03 (2 1/2" x 0.037) nails or ASTM F1667 RSRS-04 (3 1/2" x 0.037) nails. RSRS-01, RSRS-03, RSRS-04 are ring shank nails meeting the specifications in ASTM F 1667.

**ROOF SHEATHING ATTACHMENT:**  
 TRUSS SPACING AT 24" O.C. IN EXPOSURE B AT 140 MPH WIND SPEED:  
 SG-0.42 NAIL SPACING 6" O.C. ALONG PANEL EDGES  
 SG-0.49 NAIL SPACING 6" O.C. ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD  
 SG-0.49 NAIL SPACING 6" O.C. ALONG PANEL EDGES

TRUSS SPACING AT 24" O.C. IN EXPOSURE C/D AT 140 MPH WIND SPEED:  
 SG-0.42 NAIL SPACING 4" O.C. ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD  
 SG-0.49 NAIL SPACING 6" O.C. ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD

For sheathing located a minimum of 4" from the perimeter edge of the roof, including 4" on each side of ridges and hips, nail spacing is permitted to be 6" o.c. along panel edges and 6" o.c. along intermediate supports in the panel field.

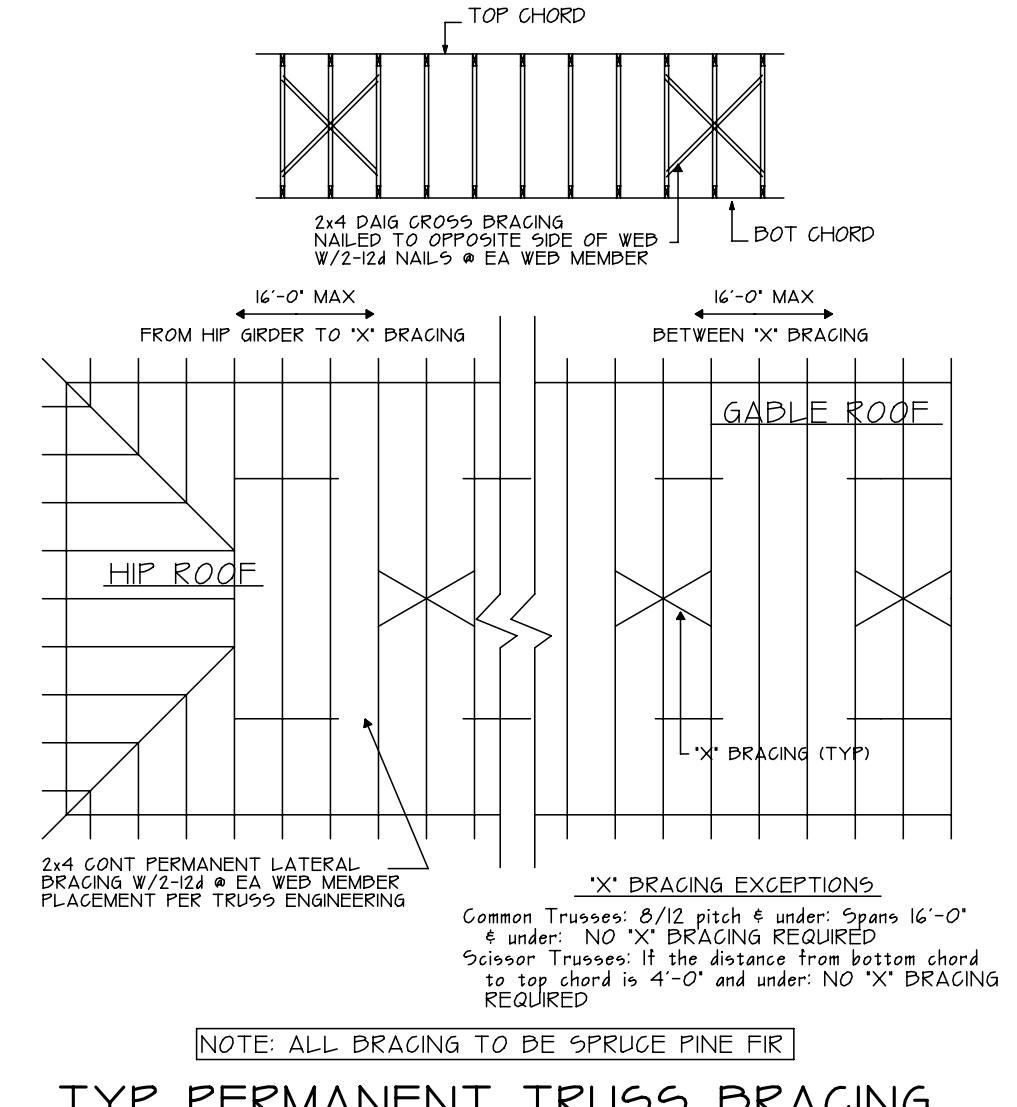


## VALLEY RAFTER FRAMING

### ENGINEER OF RECORD NOTE:

These plans have been reviewed prior to the completion of the Engineered Truss Package. The engineer of record has calculated the loads acting on elements in the load path using those methods prescribed by the 2020 Florida Building Code 7th Edition (Residential) and ASCE 7-16.

DUE TO ABE NOTE, TBC SERVICES LLC NEEDS TO REVIEW THE TRUSS LAYOUT FOR LOAD BEARING CONDITIONS PRIOR TO CONSTRUCTION FOR ANY ALTERATIONS TO THE LOCATIONS AND DETAILS OF ALL POSTERS. IF CONSTRUCTION BEGINS PRIOR TO SAID REVIEW, TBC SERVICES LLC WILL NOT BE HELD LIABLE FOR MISTAKES.



TYP PERMANENT TRUSS BRACING

LOCATIONS FOR FLASHING:  
 FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS, WHERE FLASHING IS OF METAL. THE METAL SHALL BE CORROSION RESISTANT.

EXCEPTION: FLASHING IS NOT REQUIRED AT HP AND RIDGE JUNCTIONS.

METAL FLASHING MATERIAL

MATERIAL	GAGE MIN THICKNESS (INCHES)	GAGE	WEIGHT (LBS PER SQ FT)
COPPER	0.024	1 1/8 (O2)	
ALUMINUM	0.024		
STAINLESS STEEL	28		
GALVANIZED STEEL	0.0079	A250 ALUM ZINC (ZINC COATED G90)	26
ALUMINUM ZINC COATED STEEL	0.0079	A250 ALUM ZINC	26
ZINC ALLOY	0.027		
LEAD	2.5 (40 OZ)		
PAINTED TERNE	125 (20 OZ)		

**DESIGN CRITERIA**

THIS STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH FBC 2020 7th EDITION AND NEC 2014 AND IS NOT IN WINDSHED DESIGN REGION.

BASIC WIND SPEED = 140 MPH  
 WIND EXPOSURE CATEGORY = B  
 INTERNAL PRESSURE COEFFICIENT = +/- 0.8

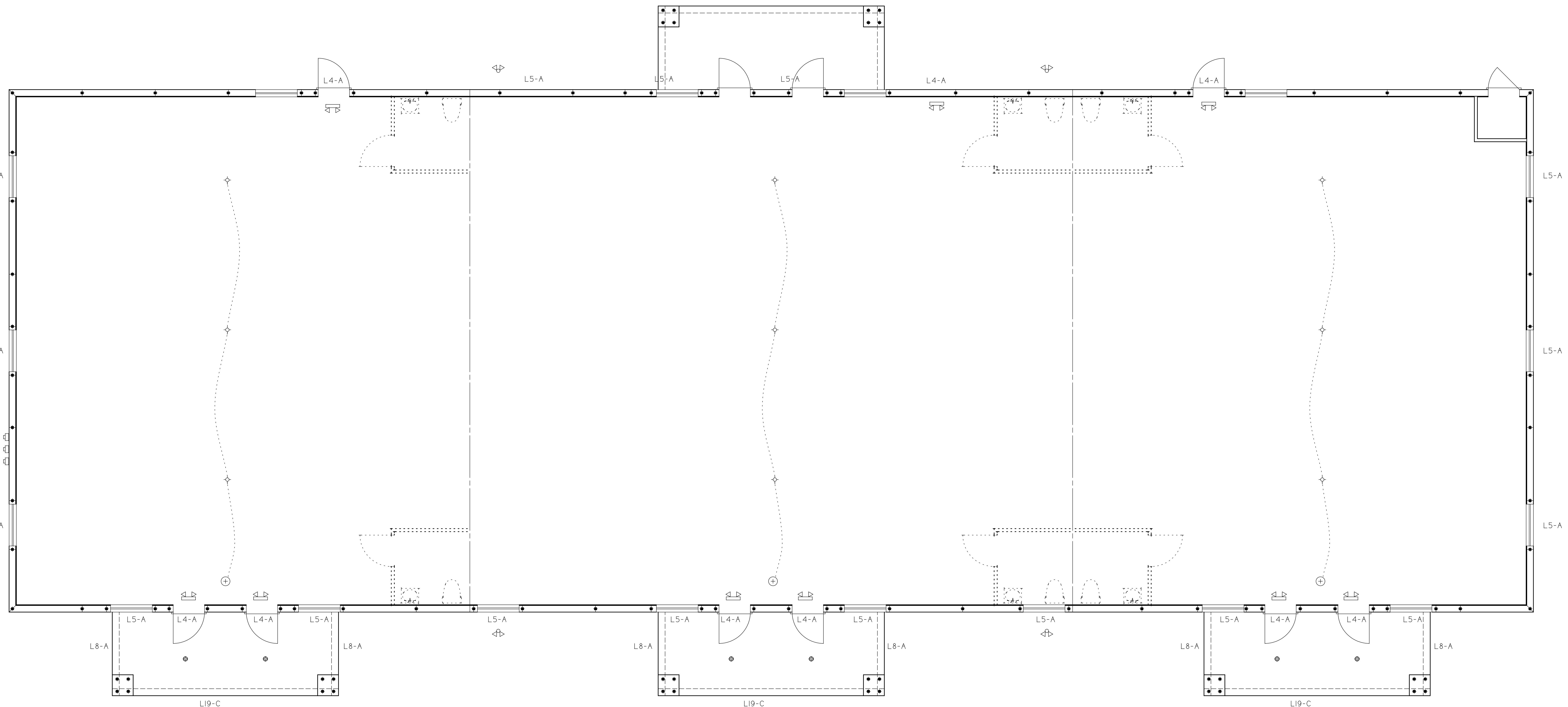
SEALING ENVELOPE:  
 AVERAGE DESIGN WIND PRESSURE = 25 PSF  
 OCCUPANCY CLASSIFICATION: R3 PER FBC30 CONSTRUCTION TYPE I

**LP Structural Design LLC**  
 P.E. NO. 4767  
 FL PROFESSIONAL ENGINEER  
 222 MAGNOLIA CIRCLE  
 EUSTON FL 32726 (904) 908-9054

I hereby certify that I have reviewed this structure for adequacy of these walls, roof diaphragms and that this building is in compliance with the requirements of the 7th edition FBC 2020.

**TBC SERVICES LLC**  
 PHONE: (952) 483-6897  
 EMAIL: TBCservices@TBCMAIL.COM

DRAWN BY: PEM  
 DATE: 1/4/21  
 SCALE: 1/4" = 1'-0"  
 JOB: WEST ORANGE BUSINESS CENTER PHASE D  
 REV: SHEET A4  
 SEAL:



# ELECTRICAL/PRECAST PLAN

SCALE 1/4" = 1'-0"

**QUALITY PRECAST COMPANY**  
 7700007 ON SERVICE  
 P.O. Box 1 - Braden, Florida 32009-0001  
 (904) 489-7400  
 Fax: (904) 483-9240

Precast Lintel (6" x 6", filled and unfilled)					Precast Lintel (6" x 16" composite)						
Part No.	Height	Top	No. of	Steel	Part No.	Height	No. of	Steel			
Span	Top	Rein.	Rein.	Rein.	Span	Top	Rein.	Rein.			
L-1	20"	20"	400	2045	202	L-1	20"	20"	400	2045	202
L-2	24"	24"	400	2445	204	L-2	24"	24"	400	2445	204
L-3	28"	28"	400	2845	206	L-3	28"	28"	400	2845	206
L-4	32"	32"	400	3245	208	L-4	32"	32"	400	3245	208
L-5	36"	36"	400	3645	210	L-5	36"	36"	400	3645	210
L-6	40"	40"	400	4045	212	L-6	40"	40"	400	4045	212
L-7	44"	44"	400	4445	214	L-7	44"	44"	400	4445	214
L-8	48"	48"	400	4845	216	L-8	48"	48"	400	4845	216
L-9	52"	52"	400	5245	218	L-9	52"	52"	400	5245	218
L-10	56"	56"	400	5645	220	L-10	56"	56"	400	5645	220
L-11	60"	60"	400	6045	222	L-11	60"	60"	400	6045	222
L-12	64"	64"	400	6445	224	L-12	64"	64"	400	6445	224
L-13	68"	68"	400	6845	226	L-13	68"	68"	400	6845	226
L-14	72"	72"	400	7245	228	L-14	72"	72"	400	7245	228
L-15	76"	76"	400	7645	230	L-15	76"	76"	400	7645	230
L-16	80"	80"	400	8045	232	L-16	80"	80"	400	8045	232
L-17	84"	84"	400	8445	234	L-17	84"	84"	400	8445	234
L-18	88"	88"	400	8845	236	L-18	88"	88"	400	8845	236
L-19	92"	92"	400	9245	238	L-19	92"	92"	400	9245	238
L-20	96"	96"	400	9645	240	L-20	96"	96"	400	9645	240
L-21	100"	100"	400	10045	242	L-21	100"	100"	400	10045	242
L-22	104"	104"	400	10445	244	L-22	104"	104"	400	10445	244
L-23	108"	108"	400	10845	246	L-23	108"	108"	400	10845	246
L-24	112"	112"	400	11245	248	L-24	112"	112"	400	11245	248
L-25	116"	116"	400	11645	250	L-25	116"	116"	400	11645	250
L-26	120"	120"	400	12045	252	L-26	120"	120"	400	12045	252
L-27	124"	124"	400	12445	254	L-27	124"	124"	400	12445	254
L-28	128"	128"	400	12845	256	L-28	128"	128"	400	12845	256
L-29	132"	132"	400	13245	258	L-29	132"	132"	400	13245	258
L-30	136"	136"	400	13645	260	L-30	136"	136"	400	13645	260
L-31	140"	140"	400	14045	262	L-31	140"	140"	400	14045	262
L-32	144"	144"	400	14445	264	L-32	144"	144"	400	14445	264
L-33	148"	148"	400	14845	266	L-33	148"	148"	400	14845	266
L-34	152"	152"	400	15245	268	L-34	152"	152"	400	15245	268
L-35	156"	156"	400	15645	270	L-35	156"	156"	400	15645	270
L-36	160"	160"	400	16045	272	L-36	160"	160"	400	16045	272
L-37	164"	164"	400	16445	274	L-37	164"	164"	400	16445	274
L-38	168"	168"	400	16845	276	L-38	168"	168"	400	16845	276
L-39	172"	172"	400	17245	278	L-39	172"	172"	400	17245	278
L-40	176"	176"	400	17645	280	L-40	176"	176"	400	17645	280
L-41	180"	180"	400	18045	282	L-41	180"	180"	400	18045	282
L-42	184"	184"	400	18445	284	L-42	184"	184"	400	18445	284
L-43	188"	188"	400	18845	286	L-43	188"	188"	400	18845	286
L-44	192"	192"	400	19245	288	L-44	192"	192"	400	19245	288
L-45	196"	196"	400	19645	290	L-45	196"	196"	400	19645	290
L-46	200"	200"	400	20045	292	L-46	200"	200"	400	20045	292
L-47	204"	204"	400	20445	294	L-47	204"	204"	400	20445	294
L-48	208"	208"	400	20845	296	L-48	208"	208"	400	20845	296
L-49	212"	212"	400	21245	298	L-49	212"	212"	400	21245	298
L-50	216"	216"	400	21645	300	L-50	216"	216"	400	21645	300
L-51	220"	220"	400	22045	302	L-51	220"	220"	400	22045	302
L-52	224"	224"	400	22445	304	L-52	224"	224"	400	22445	304
L-53	228"	228"	400	22845	306	L-53	228"	228"	400	22845	306
L-54	232"	232"	400	23245	308	L-54	232"	232"	400	23245	308
L-55	236"	236"	400	23645	310	L-55	236"	236"	400	23645	310
L-56	240"	240"	400	24045	312	L-56	240"	240"	400	24045	312
L-57	244"	244"	400	24445	314	L-57	244"	244"	400	24445	314
L-58	248"	248"	400	24845	316	L-58	248"	248"	400	24845	316
L-59	252"	252"	400	25245	318	L-59	252"	252"	400	25245	318
L-60	256"	256"	400	25645	320	L-60	256"	256"	400	25645	320
L-61	260"	260"	400	26045	322	L-61	260"	260"	400	26045	322
L-62	264"	264"	400	26445	324	L-62	264"	264"	400	26445	324
L-63	268"	268"	400	26845	326	L-63	268"	268"	400	26845	326
L-64	272"	272"	400	27245	328	L-64	272"	272"	400	27245	328
L-65	276"	276"	400	27645	330	L-65	276"	276"	400	27645	330
L-66	280"	280"	400	28045	332	L-66	280"	280"	400	28045	332
L-67	284"	284"	400	28445	334	L-67	284"	284"	400	28445	334
L-68	288"	288"	400	28845	336	L-68	288"	288"	400	28845	336
L-69	292"	292"	400	29245	338	L-69	292"	292"	400	29245	338
L-70	296"	296"	400	29645	340	L-70	296"	296"	400	29645	340
L-71	300"	300"	400	30045	342	L-71	300"	300"	400	30045	342
L-72	304"	304"	400	30445	344	L-72	304"	304"	400	30445	344
L-73	308"	308"	400	30845	346	L-73	308"	308"	400	30845	346
L-74	312"	312"	400	31245	348	L-74	312"	312"	400	31245	348
L-75	316"	316"	400	31645	350	L-75	316"	316"	400	31645	350
L-76	320"	320"	400	32045	352	L-76	320"	320"	400	32045	352
L-77	324"	324"	400	32445	354	L-77	324"	324"	400	32445	354
L-78	328"	328"	400	32845	356	L-78	328"	328"	400	32845	356
L-79	332"	332"	400	33245	358	L-79	332"	332"	400	33245	358
L-80	336"	336"	400	33645	360	L-80	336"	336"	400	33645	360
L-81	340"	340"	400	34045	362	L-81	340"	340"	400	34045	362
L-82	344"	344"	400	34445	364	L-82	344"	344"	400	34445	364
L-83	348"	348"	400	34845	366	L-83	348"	348"	400	34845	366
L-84	352"	352"	400	35245	368	L-84	352"	352"	400	35245	368
L-85	356"	356"	400	35645	370	L-85	356"	356"	400	35645	370
L-86	360"	360"	400	36045	372	L-86	360"	360"	400	36045	372
L-87	364"	364"	400	36445	374	L-87	364"	364"	400	36445	374
L-88	368"	368"	400	36845	376	L-88	368"	368"	400	36845	376
L-89	372"	372"	400	37245	378	L-89	372"	372"	400	37245	378
L-90	376"	376"	400	37645	380	L-90	376"	376"	400	37645	380
L-91	380"	380"	400	38045	382	L-91	380"	380"	400	38045	382
L-92	384"	384"	400	38445	384	L-92	384"	384"	400	38445	384
L-93	388"	388"	400	38845	386	L-93	388"	388"	400	38845	386
L-94	392"	392"	400	39245	388	L-94	392"	392"	400	39245	388
L-95	396"	396"	400	39645	390	L-95	396"	396"	400	39645	390
L-96	400"	400"	400	40045	392	L-96	400"	400"	400	40045	392
L-97	404"	404"	400	40445	394	L-97	404"	404"	400	40445	394
L-98	408"	408"	400	40845	396	L-98	408"	408"	400	40845	396
L-99	412"	412"	400	41245	398	L-99	412"	412"	400	41245	398
L-100	416"	416"	400	41645	400	L-100	416"	416"	400	41645	400

# TYP STRUCTURAL NOTES

1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH SIMPSON H101 3/4" x 1/2" x 1/4" LONG MASONRY ANCHORS TO BOND BEAM BLOCK. H101 IS 2' LONG WITH UPLIFTS OF 1000 LB OR LESS. USE FOR 2000 LB OR LESS.
2. MISSED 1/2" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. 4" DEEP UNILEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS. (OR 1/2" x 6" RAIL STD EXPANSION ANCHOR).
3. WINDOW ATTACHMENT INSTALLATION IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR AS PER THE PARTICULAR WINDOW MFG. DESIGN REQUIREMENTS. A MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER FROM THE STATE OF FLORIDA.
4. CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
5. ALL SPICES IN STEEL REINFORCEMENT SHALL HAVE A MINIMUM LAP OF 32" AND NOT SPICED FARTHER APART THAN 32" REBAR.
6. ALL INTERIOR PARTITION DIMENSIONS ARE 3/4" WIDE UNLESS OTHERWISE NOTED.
7. STEEL COVERAGE: FOOTINGS AND SLAB AGAINST EARTH: 3 INCHES.
8. CONCRETE MASONRY UNITS SHALL CONFORM WITH ASTM C-90 HOLLOW LOAD BEARING CONCRETE MASONRY UNITS, TYPE I, GRADE 1 NORMAL WEIGHT, 8" x 8" x 16".
9. MORTAR SHALL CONFORM WITH ASTM C-90 FOR MASONRY CEMENT AND ASTM C-90 FOR PORTLAND CEMENT. MORTAR SHALL BE TYPE "M" COMPENSING WORK. 2500 PSI MINIMUM BEARING CAPACITY REQUIRED.
10. DIM. FROM EXTERIOR BLOCK WALLS ARE MEASURED FROM THE FURRING STRIPS. BLK WALL: 5/8" x FURRING: 3/4". TOTAL: 1 1/8".
11. ALL #5 REBAR IN HOUSE TO BE GRADE 40 OR BETTER.
12. ALL SOLID OR WASTE PIPE OR BUILDING DRANS UNDER A FOOTING SHALL BE SET IN A HOUSING WITH A MINIMUM OF 2 SIZES GREATER THAN THE PIPE PASSING THRU.
13. ALL BLOCK WORK THAT OVERHANGS THE SLAB 3/4" BUT NO GREATER THAN 1/2" SHALL BE SET IN APPROVED FLASHING CEMENT AND SET PLUSH TO BASE OF WALL AND OVER THE UNDERLAYER. BOTH HOLE AND HOLE METAL FLANGES SHALL BE FASTENED ON CENTER WITH APPROVED PATENTED ALL LAPS SHALL BE A MIN OF 6" FULLY SEALED IN APPROVED FLASHING CEMENT. ALL JOINTS SHALL BE FULLY SEALED IN APPROVED ROOF TO ENSURE WATER-SHEDDING CAPABILITIES OF ALL METAL LAPS. THE ENTIRE COVERING SHALL BE SET IN APPROVED FLASHING CEMENT. ALL NAIL PENETRATIONS WITH APPROVED FLASHING CEMENT AND MEMBRANE. SHEETS SHALL OVERLAP THE HOLE FLANGE AND SHALL BE SET IN APPROVED FLASHING CEMENT.
14. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL PROVIDED IN SECTION R905.3.1 OR METAL SURFACE ROLL ROOFING BEHIND A MIN. OF 77 POUNDS PER 100 SQ FEET. COUNTER FLASHING SHALL BE CORROSION-RESISTANT METAL WITH A MIN THICKNESS PROVIDED IN TABLE R905.3.2.
15. R905.3.2: FLASHING SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THROUGH JOINTS IN CONCRETE, MOISTURE PERMEABLE MATERIALS, AND AT INTERSECTIONS WITH PARTIAL WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.
16. FOR FUTURE REPAIR OF FALD DOWNPIPE HOLES THAT DO NOT FILL UP WITH GROUT PROPERLY, THE BULDER WILL KNOCK OUT AN APPROX. 4" DIA HOLE AT THE TOP OF THE VOID. THEN THE CELL CAN BE PUMPED SOLID WITH 3000 P.S.I. GROUT TO THE TOP OF THE VOID.
17. ALL CEILING IN HOUSE TO BE COVERED WITH 1/2" CEILING BOARD.
18. THE SCUTTLE HOLE IN THE GARAGE TO BE COVERED WITH 1/2" CEILING BOARD.
19. DOORS BETWEEN THE GARAGE AND RESIDENCE SHALL BE MIN 1 3/4" THICK SOLID CORE AND EQUIPPED WITH A SELF CLOSING DEVICE PER R502.5.1.
20. THE 4" x 4" COMPRESSOR IS TO BE ANCHORED TO THE CONC. PAD WITH 1/2" MET. FNS AT EACH CORNER OR (2) 1/4" x 2" MASONRY SCREWS, ONE EACH AT OPPOSITE CORNERS.
21. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/4" 1 1/2" THICK. SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/4" 1 1/2" THICK, OR 20-MINUTE FIRE RATED DOORS.
22. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" INCH (2) 1/2" GYPSUM BOARD APPLIED TO THE GARAGE WALLS. GARAGE DOORS SHALL BE SET IN DOORS WITH 1/2" INCH GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR/CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" INCH (2) 1/2" GYPSUM BOARD OR EQUIVALENT.
23. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILING SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAUGE (0.04 MM SHEET STEEL, RIGID NONMETALLIC DUCT OF CLASS 0 CLASS I DUCT MATERIAL IN ACCORDANCE WITH UL 98 OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO GARAGE.
24. ALL AIR HANDLER UNITS SHALL HAVE A MINIMUM 3 INCH CLEARANCE AROUND THEM. THE TOP WIDTH OF THE TOTAL CLEARANCE SHALL BE AT LEAST 12" WIDER THAN THE APPLANCE. ENCLOSED SPACE BEING AT LEAST 12" WIDER THAN THE APPLANCE.
25. UNDER STAIR PROTECTION ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" (2) 1/2" GYPSUM BOARD.
26. ALL NEW SINGLE FAMILY DUPLEXES, TOWNHOUSES, CONDOMINIUMS AND TOWNHOUSES SHALL PROVIDE AT LEAST ONE BATHROOM LOCATED WITH MAXIMUM POSSIBLE PRIVACY. THESE BATHROOMS ARE PROVIDED ON HABITABLE FLOOR LEVELS WITH A DOOR THAT HAS A 20" (2) 1/2" CLEAR OPENING. HOWEVER, IF ONLY A TOILET ROOM IS PROVIDED AT GRADE LEVEL, SUCH TOILET ROOMS SHALL HAVE A CLEAR OPENING OF NOT LESS THAN 29" (2) 1/2".
27. BATHROOM VENTILATION: GLAZED AREAS SHALL NOT BE REQUIRED WHERE ARTIFICIAL LIGHT AND A MECHANICAL VENTILATION SYSTEM ARE PROVIDED. THE MINIMUM VENTILATION RATES SHALL BE 50 CFM (2) 1/2" (2) 1/2" FOR INTERMITTENT VENTILATION OR 10 CFM (1) 1/2" (2) 1/2" FOR CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE.
28. ALL ANCHOR BOLTS USED IN THE PROJECT WILL HAVE A MINIMUM EMBEDMENT OF 7" AND BE AT A MINIMUM OF 1/2" DIA.
29. ALL SHOWER ENCLOSURES WILL COMPLY WITH FBCR 308.
30. THE ATTIC ACCESS TO BE FRAMED WITH A MINIMUM ROUGH FRAMED OPENING OF 22" x 30" AND SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THE MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30" AT SOME POINT ABOVE THE ACCESS REQUIRED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS.
31. ROOF HUNT CORNERS IN CONTACT WITH THE GROUND OR CONCRETE SHALL BE PRESSURE TREATED.

## 32. R312.2.1: WINDOW SILLS:

1. In dwelling units, where the top of the sill of an operable window opening is located less than 24 inches above the finished floor and greater than 72 inches above the finished grade or other surface below the exterior of the building, the operable window sill shall comply with one of the following:
  1. Operable windows with openings that will not allow a 4 inch diameter sphere to pass through the opening where the opening is its largest opened position.
  2. Operable windows that are provided with window fall prevention devices that comply with ASTM F2099.
  3. Operable windows that are provided with window opening control devices that comply with section R302.2.

## 32A: EMERGENCY ESCAPE WINDOW SILLS

Where a window is provided as the emergency escape and rescue opening, it shall have a sill height of not more than 44 inches above the floor.

## 33. BUILDING ADDRESS NUMBERS SHALL BE A MINIMUM 4" HIGH WITH A MINIMUM STROKE OF A 1/2"

## 34. UNDERLAYMENT APPLICATION: Underlayment for asphalt, metal roof shingles, mineral surfaced roll roofing, R905.11

1. The entire roof deck shall be covered with an approved self-adhering polymer-modified bitumen underlayment complying with ASTM D970 installed in accordance with both the underlayment mfg. and roof covering mfg's installation instructions for the deck material, roof ventilation configuration and climate exposure for the roof covering material.
 

Exception: An existing self-adhering modified bitumen underlayment that has been previously installed over the roof decking and where it is required to remain all of the roof sheathing in accordance with section R905.11 can be confirmed or verified. An approved underlayment in accordance with Table R905.11 for the application roof covering shall be applied over the entire roof over the existing self-adhered modified bitumen underlayment.
2. A minimum 4 inch wide strip of self-adhering polymer-modified bitumen membrane complying with ASTM D970, installed in accordance with the mfg's instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment in accordance with Table R905.11 for the application roof covering shall be applied over the entire roof over the 4 inch wide membrane strips.
 

Exception: A synthetic underlayment that is approved as an alternative to underlayment complying with ASTM D970 type 2 and having a minimum tear strength of 60 lb in accordance with ASTM D4533 and a minimum tensile strength of 20 lb/inch in accordance with ASTM D5035 shall be permitted to be applied over the entire roof over the 4 inch wide membrane strips. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.11 for the applicable roof covering and slope and the underlayment mfg's installation instructions.
3. A minimum 3/4 inch wide strip of self-adhering flexible flashing tape complying with ANMA 71 level 3 for exposure up to 170 mph shall be installed in accordance with the mfg's instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment in accordance with Table R905.11 for the application roof covering shall be applied over the entire roof over the 4 inch wide flashing tape.
 

Exception: A synthetic underlayment that is approved as an alternative to underlayment complying with ASTM D970 type 2 and having a minimum tear strength of 60 lb in accordance with ASTM D4533 and a minimum tensile strength of 20 lb/inch in accordance with ASTM D5035 shall be permitted to be applied over the entire roof over the 4 inch wide flashing tape. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.11 for the applicable roof covering and slope and the underlayment mfg's installation instructions.

## 35. DRIP EDGE

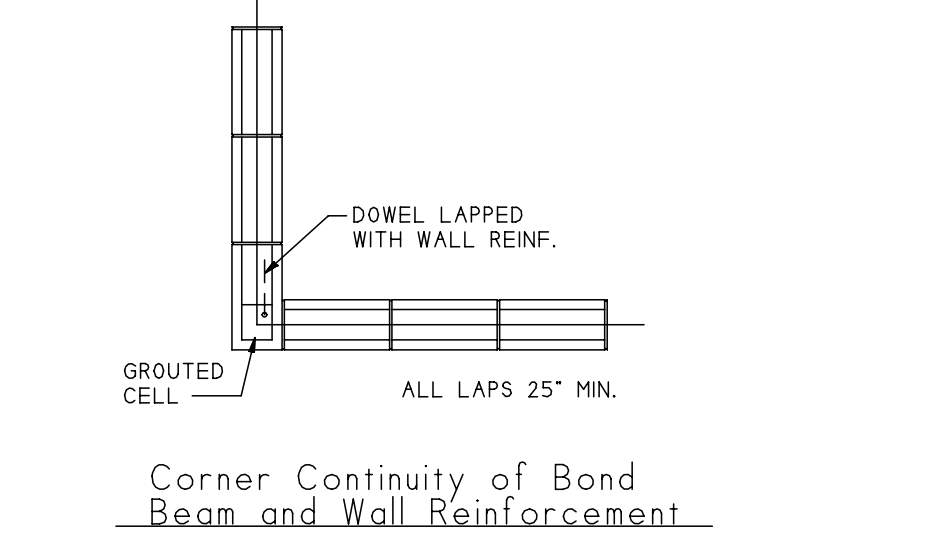
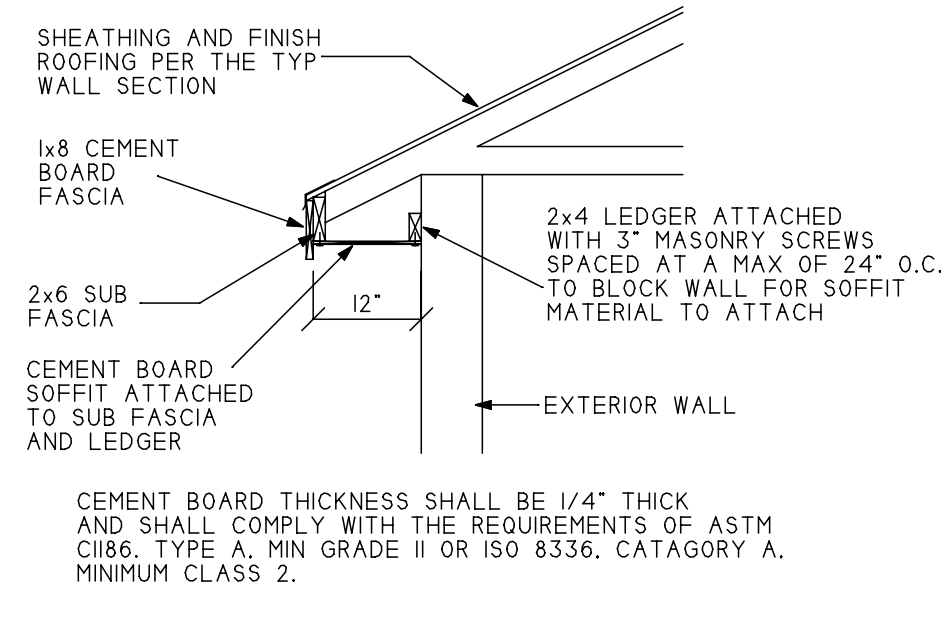
Provide drip edge at eaves and gables of shingle roofs. The overlap is to be a minimum of 3 inches. Eave drip edges shall extend 1/2 inch below sheathing and extend back on the roof a minimum of 2 inches. Drip edge at eaves shall be permitted to be installed either over or under the underlayment. If it is installed over the underlayment, there shall be a minimum 2 inch width of roof cement installed over the drip edge flange. The drip edge shall be mechanically fastened a maximum of 4 inches o.c.

## 36. INTERCONNECTION

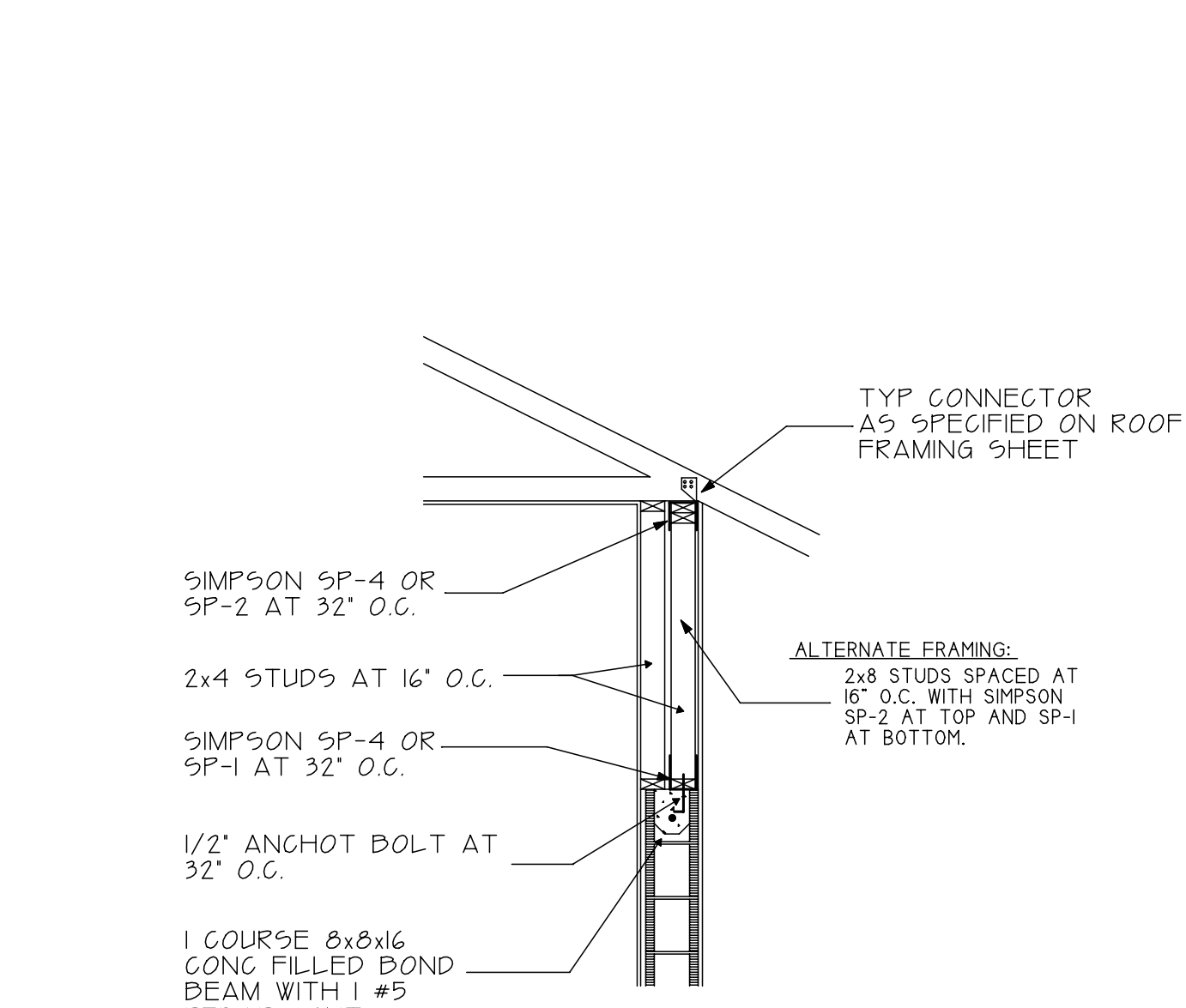
Where more than one alarm is required to be installed within an individual dwelling unit in accordance with R304.3, the alarm device shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual unit. Physical interconnection of these alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.

## 37. R608.1.2: VERTICLE REINFORCEMENT IN BLOCK WALLS

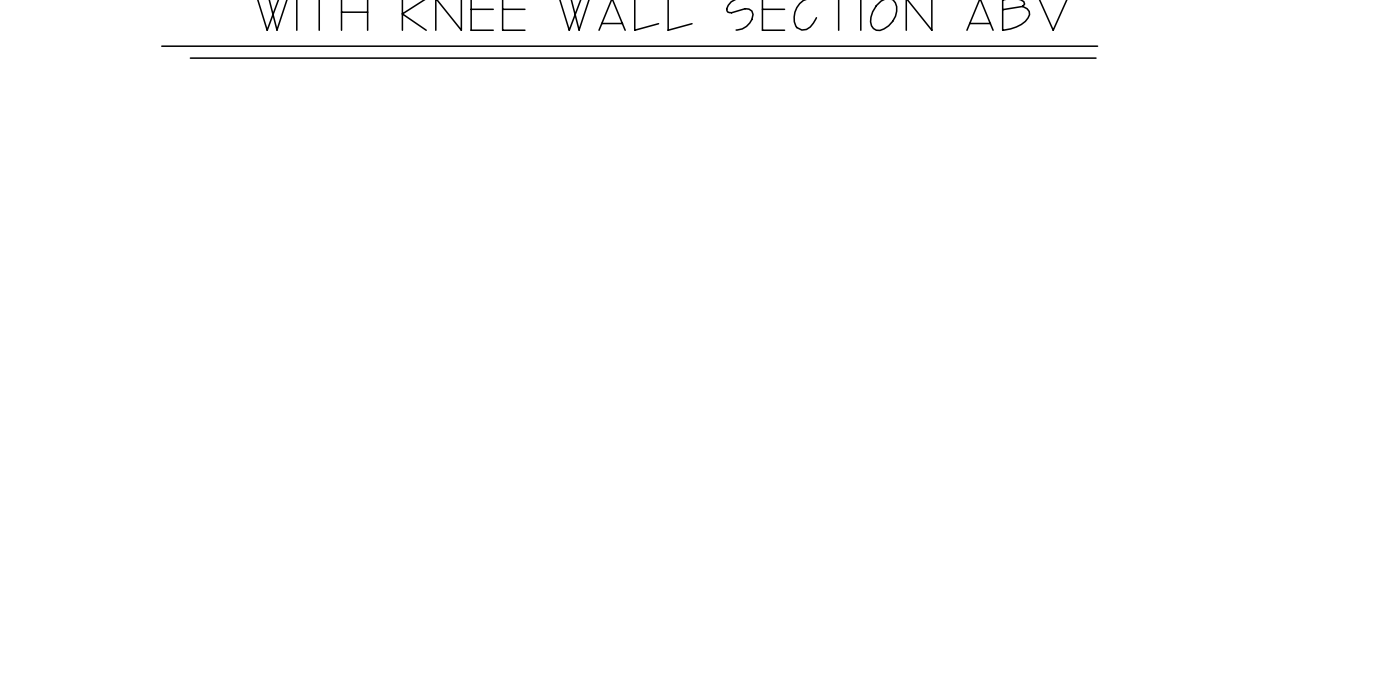
Not less than one #3 No. 4 bar (grade 40) shall be provided on each side of opening equal or greater than 16 inches in width. The vertical reinforcement required by this section shall extend the full height of the wall story and shall be located within 12 inches of each side opening.....



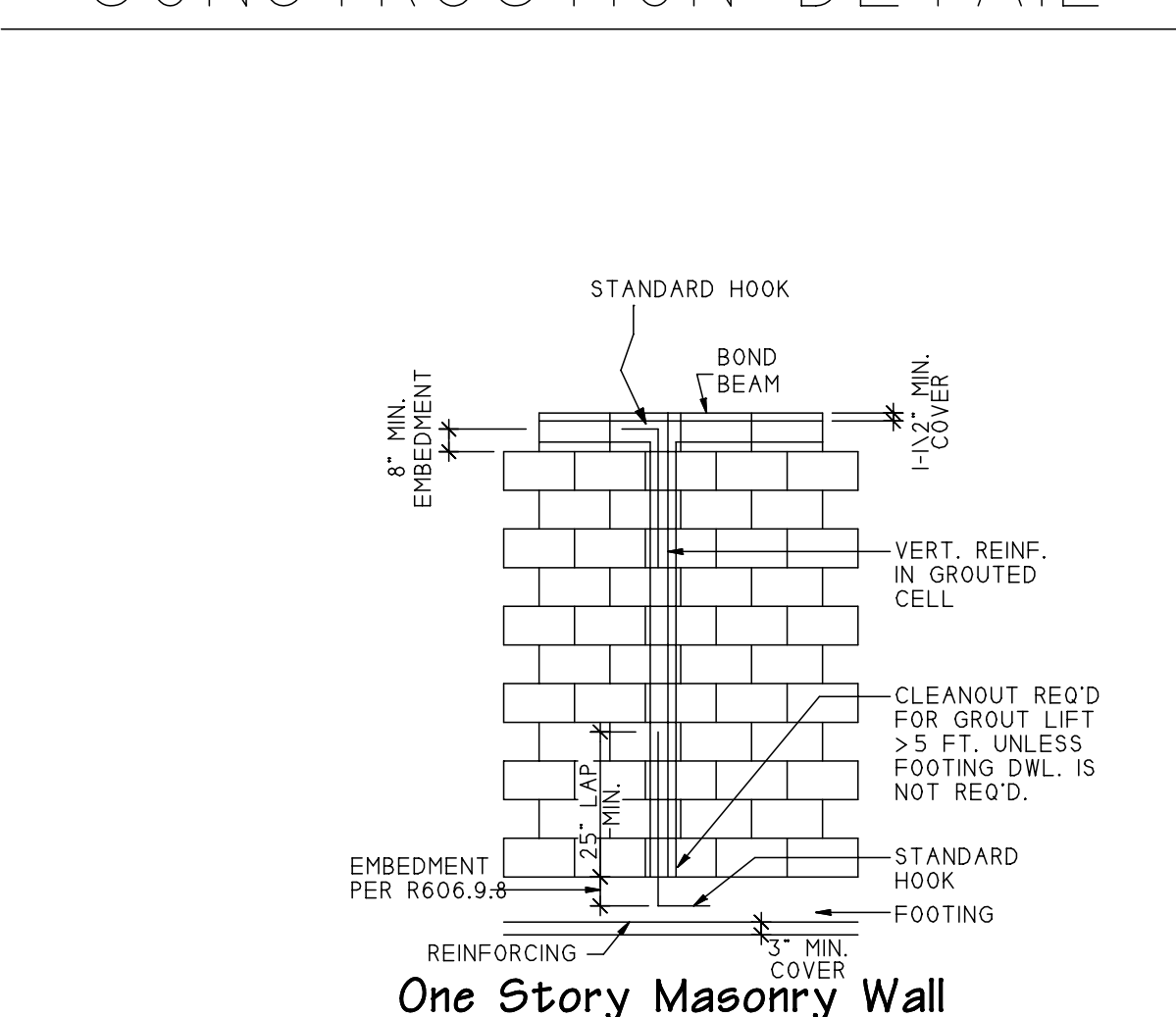
## One Story Typ. Block Wall Section



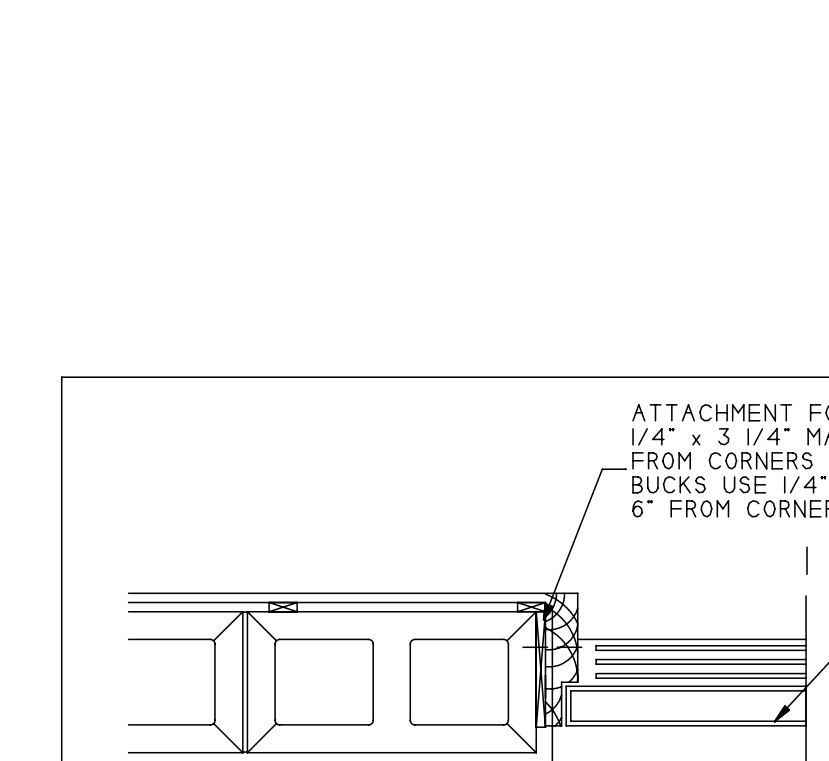
## TYPICAL BLOCK WALL SECTION WITH KNEE WALL SECTION ADV



## COVERED ENTRY CONSTRUCTION DETAIL



## One Story Masonry Wall



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



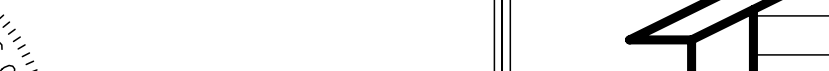
## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



## WINDOW ATTACHMENT: FRAME

USE #6 x 1 1/2\"/>

BLOCK: USE 1/2\"/>

DOOR ATTACHMENT: CONTRACTOR WILL PROVIDE ENGINEERED DETAILS PROVIDED BY THE MFG SHOWING THE ATTACHMENT OF ALL EXTERIOR DOORS.

## DOOR/WINDOW BUCK & UNIT INSTALLATION DETAIL



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