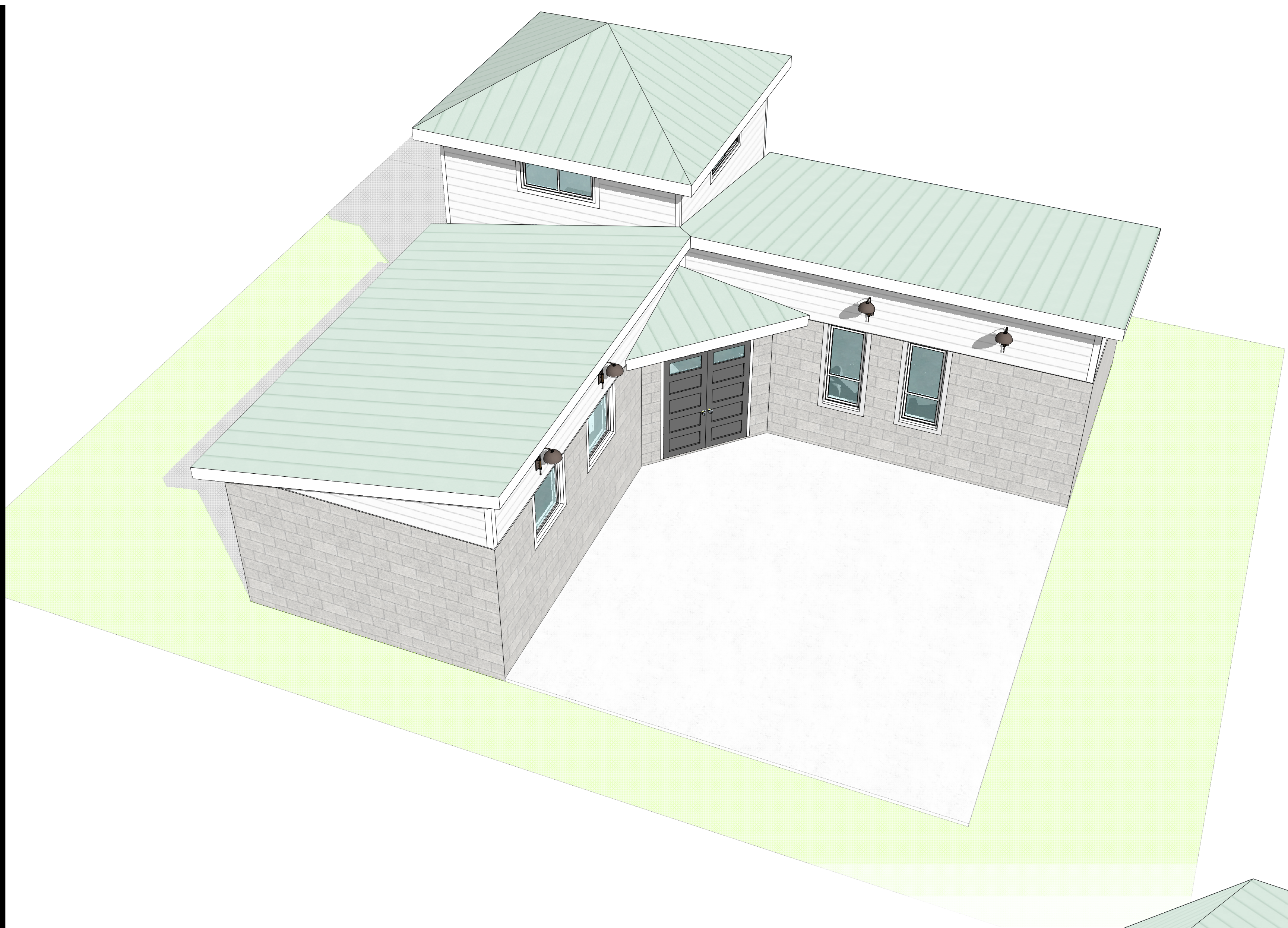


These construction plans were prepared to comply with Florida Building Code 7th Ed. (2020), 2017 NEC, & the Florida Fire Prevention Code 7th Ed. (2020).



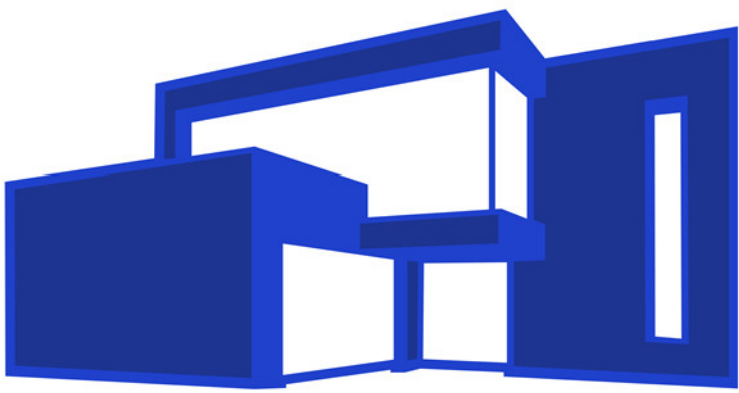
Area Calculations	
Entry Patio:	470sf
Living:	826sf
Total Square footage:	1296sf

General Structure Data:

Occupancy Type: R-3  
Construction Type: V-B  
Building Area: 826sf

Index Of Sheets

1	Cover Page
2	Cover Page II
3	Notes
4	Details
5	Foundation Plan
6	Floor Plan
7	Roof Plan
8	Front & Right Elevations
9	Rear & Left Elevations
10	Electrical Plan



ARMISTEAD DESIGN INC

STRUCTURAL ONLY

625 Fern Drive  
Meritt Island, Florida 32952  
Phone: (321) 454-6409  
www.ArmisteadDesign.com  
Project Designer  
Scott Armistead

REVISIONS

Description Date

When it's all done

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Happy Homeowners  
123 Jimmy St  
Aytown, FL 32953

Project No.  
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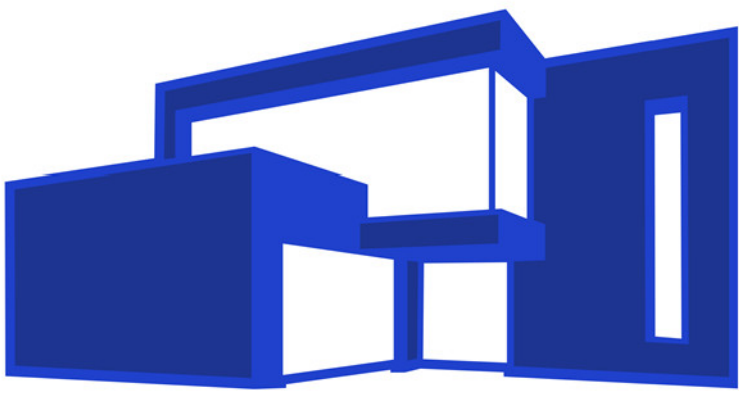
Hybrid CMU & SIPS Tiny House

COVER PAGE I

Scale 1/4" = 1'

PAGE NO





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COVER PAGE II

Scale    ◆    1/4" = 1'

PAGE NO.





General Notes

1. The intent of these documents is to include all work and items necessary for the completion of the work. Therefore, it does not matter whether the item is shown or not, all items necessary for the intended result must be provided.
2. All material must be new without blemishes or defects of any kind.
3. All work should be of the highest quality for the trade involved.
4. Unless noted otherwise (uno), all work shall be guaranteed for a minimum of one year from the date of occupancy.
5. General contractor and subcontractors must be currently licensed in the state of Florida to perform their trade.
6. Owner must approve substitutions of any item.
7. General contractor shall be responsible for the coordination and quality of workmanship by all trades. This includes proper installation of any roofing systems, flashings, sealants, secondary water proofing, and any other required resistance to water intrusion.
8. General contractor must obtain and maintain liability insurance as required by contract until completion of the job.
9. If any part of these documents is not clear, the general contractor or the subcontractor must ask the Engineer for clarification. Lack of understanding does not excuse improper installation or construction.
10. These plans have been prepared in compliance with the latest edition of the Florida Building Code with current revisions.
11. Dimensions should be used in lieu of scaling.
12. All new exterior doors and windows shall be wind resistant and installed per manufacturer's specifications to ensure that they will meet wind load requirements.

Concrete

1. All concrete shall be as designed to develop a compressed strength as follows: foundations 2500 psi
2. All reinforced steel shall be deformed bars conforming to ASTM A-615 Grade 40
3. All concrete reinforcement shall be detailed, fabricated, labeled, supported and spaced in forms and secured in place as per building code requirements for reinforced concrete. ACI 318-19 and the manuals of standard practice for detailing reinforced concrete structures, ACI 315 latest edition.
4. All #5 bar splices and dowels shall lap 25 inches unless noted otherwise.
5. Unless otherwise permitted or specified, the concrete shall be proportional and produced to have a slump of 3" minimum and 5" maximum immediately after depositing.
6. Welded wire fabric shall conform to ASTM-185. 1.5#/yd fibermesh may be used with or in lieu of WWF or vice versa.
7. Minimum concrete protection for reinforcing bars:

structural part cover minimum clear footings, (concrete cast against and permanently exposed to earth)	3 inches
Footing and walls (concrete cast in forms permanently exposed to earth)	2 inches
slab (in contact with earth)	2 inches
beams (to stirrups)	2 inches
columns (to ties) above grade	2 inches
8. Foundations and slabs on grade are designed to bear on soil with minimum safe bearing capacity of 2000 P.S.F. It is the responsibility of the contractor to provide the required capacity under all foundations and slabs.
9. Control joints shall be installed per ACI 224.3R.

Masonry

1. Masonry construction shall conform to ACI 530 & 530.1, Building Code Requirements for Masonry Structures, ASN specifications. Masonry walls have been designed as reinforced masonry retaining walls.
2. Concrete blocks shall conform to ASTM C 90 (28 days strength = 2000 Psi (net area), Fm = 1500 Psi) Laid in running bond with full mortar embedment.
3. Mortar/Concrete/Grout shall be type M.
4. Reinforce masonry walls vertically as indicated on plans. Use 3000 psi concrete grout for filled cells.
5. Locate one filled cell at each side of openings, @ corners, wall intersections, high side of wall step up, within 8" of girder locations, and at internal bearing walls.
6. Fill the cell full height with grout and (1) #5 rebar.
7. All vertical reinforcing shall be provided as indicated and shall be installed as follows:

Provide clean-out space at bottom of each reinforced cell (at location of reinforcing steel dowel in foundations or previous concrete placement) Install vertical steel tied to dowel at bottom and at top. Cover clean out opening and fill with 3000 psi grout.

8. Continuous bond beams shall be provided as shown on the wall section(s).
9. All reinforcing steel shall conform to ASTM A615 Grade 40.
10. 8" deep bond beam with (1) #5 continuous.
11. Install (1) #5 below window openings.
12. Control joints shall be installed per NCMA TEK 10-02D.

Roof Notes

1. Contractor to provide roof vent that complies with Florida Building Code section R806
2. Galv (26 ga min) or alum flashing shall be used at gutters, wall & roof intersections, roof slope changes, & roof openings. Use of weep screeds, control joints, or expansion joints shall be used to drain moisture. Only workers who understand proper installations of any water barriers, including flashings and sealants, shall be used.

Framing Notes

1. Structural lumber shall be 2X4 SPF Grade 2 minimum. Stud spacing on interior and exterior bearing walls shall be 16"oc UNO. Walls shall be anchored with 1/2" dia. anchor bolts, 10" long spaced 48"oc UNO.
2. 2X studs at 16" O.C. shall be used for interior partition walls. Stud spacing for all walls shall not exceed 16"oc.
3. When manufactured wood connectors are used, framing contractor is to follow manufacturer's recommendations as to quantity and size of nails. If engineer specified connector will not work in field, please contact engineer for substitution.
4. Supplier of pre-engineered trusses shall provide roof truss plans sealed by a Florida Registered Professional Engineer.

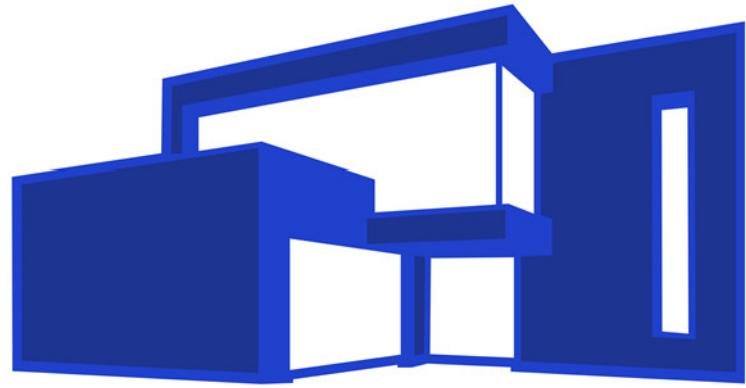
Precast Concrete Lintels

1. All precast concrete lintels shall have a minimum bearing of 8" on each side.
2. Lintels over openings larger than 14'-0" must be pre-stressed.
3. All lintels are to have 1 #5 bar (2 #5 bars for openings over 10'-0") and concrete poured in lintel cavity, unless noted otherwise.
4. Lintels to be Cast-Crete or equivalent.

Moisture Mitigation & Water Leaks

1. Moisture and leaks are major concerns. Contractor shall ensure all ventilation including but not limited to roof & any crawl space (as applicable) are installed per current Code requirement.
2. Contractor shall ensure all roof, wall, door, window, deck, and balcony flashings & waterproofings are installed correctly & meet all current code requirements.
3. Ventilation and waterproofing shall be addressed by the contractor even if any of these were omitted in these drawings.

#2	GRADE 2 DIMENSIONAL LUMBER	DEG.	DEGREES	INSUL.	INSULATION	R	RADIUS
A	AMPERES	E.A.	EXPANSION ANCHOR	INT.	INTERIOR	R.D.L.	ROOF DRAIN LEADER
A.B.	ANCHOR BOLT	E.F.	EXHAUST FAN	J-BOX	JUNCTION BOX	R.D.O.	ROOF DRAIN OVERFLOW
A.F.F.	ABOVE FINISHED FLOOR	E.J.	EXPANSION JOINT	JCT	JUNCTION	R.O.	ROUGH OPENING
A.F.G.	ABOVE FINISHED GRADE	E.N.	END NAILING	JST.	JOIST	R.O.W. or R/W	RIGHT OF WAY
A/C	AIR CONDITIONING	E.W.	EACH WAY	JT.	JOINT	REF	REFRIGERATOR
AFI	ARC FAULT CIRCUIT INTERRUPTER	E.A.	EACH	K-D	KNOCK DOWN	REF.	REFERENCE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	EL	ELEVATION	KD	KILN DRIED	REINF.	REINFORCED
ABV.	ABOVE	ELECT.	"ELECTRIC, ELECTRICAL"	KO	KNOCK OUT	REQ'D.	REQUIRED
ACOU.	ACOUSTIC	ELEV.	ELEVATOR	L.E.D.	LIGHT EMITTING DIODE	RET.	RETURN
ACT	ACOUSTICAL CEILING TILE	EMC	ELECTRICAL METALLIC CONDUIT	L.FT.	LINEAR FEET	REV.	REVISION
ADD.	ADDITION or ADDENDUM	EMT	ELECTRICAL METALLIC TUBING	LAM	LAMINATE	RM	ROOM
AG	ABOVE GRADE	ENT	ELECTRICAL NON-METALLIC TUBING	LAT.	LATERAL	RMV.	REMOVE
AHU	AIR HANDLER UNIT	EQ	EQUAL	LAV	LAVATORY	S.C.	SOLID CORE
AL or ALUM.	ALUMINIUM	EQUIP.	EQUIPMENT	LD	LEAD	S.D.	SMOKE DETECTOR
ALT.	ALTERNATE	EST.	ESTIMATE	LDT	LARGE DIAMETER TAPCON	S.O.V.	SHUT OFF VALVE
ASPH.	ASPHALT	EVAP.	EVAPORATIVE COOLER	LIN.	LINEAR	S/L	SKYLIGHT
AVG	AVERAGE	EXC	EXCAVATE	LINO.	LINOLEUM	S/S	STAINLESS STEEL
AWG	AMERICAN WIRE GAUGE	EXH.	EXHAUST	LT	LIGHT	SC	SELF CLOSING
Z	ANGLE	EXIST. or E	EXISTING	LTG.	LIGHTING	SCHED.	SCHEDULE
B.F.F.	BELOW FINISHED FLOOR	EXT.	EXTERIOR	LVL	LAMINATED VENEER LUMBER	SECT.	SECTION
B.M.	BENCH MARK	F.A.	FIRE ALARM	M.B.	MACHINE BOLT	SES	SERVICE ENTRANCE SECTION
B.N.	BOUNDARY NAILING	F.C.	FAN COIL	M.H.	MANHOLE	SH	SHEET
B.O.	BOTTOM OF	F.C.O.	FLOOR CLEAN OUT	M.I.	MALLEABLE IRON	SHT.G.	SHEATHING
B.O.F.	BOTTOM OF FOOTING	M.O.	MASONRY OPENING	SHM.	SHIM	SHR.	SHRIMP
B.U.	BUILT UP	F.E.	FIRE EXTINGUISHER	MAR.	MARBLE	SPA.	SPACE
B/C	BACK OF CURB	F.N.	FIELD NAILING	MAS.	MASONRY	SPECS	SPECIFICATIONS
BD.	BOARD	F.O.	FACE OF	MAT'L	MATERIAL	SPKR.	SPEAKER
BLDG	BUILDING	F.S.	FLOOR SINK	MAX.	MAXIMUM	SPF	SPRUCE PINE FIR
BLK.	BLOCK	F/G	FIBERGLASS	MECH.	MECHANICAL	SQ. FT.	SQUARE FEET
BLKG.	BLOCKING	FAB.	FABRICATE	MED.	MEDIUM	SQ. IN.	SQUARE INCHES
BM.	BEAM	FACP	FIRE ALARM CONTROL PANEL	MFG.	MANUFACTURING	STC	SOUND TRANSMISSION CLASS
BR	BRASS	FDC	FIRE DEPARTMENT CONNECTION	MFR.	MANUFACTURER	STD.	STANDARD
BRG.	BEARING	FDN.	FOUNDATION	MIN.	MINIMUM	STL.	STEEL
BRZ	BRONZE	F.F.E.	FINISHED FLOOR ELEVATION	MISC.	MISCELLANEOUS	SUSP.	SUSPENDED
C.D.	CONSTRUCTION DOCUMENTS	FIN.	FINISH	MOD	MODULAR	SW	SWITCH
C.I.P.	CAST IN PLACE	FL	FLOOR	MTL.	METAL	SYM	SYMMETRICAL
C.J.	CONTROL JOINT	FLG.	FLOORING	MUL	MULLION	SYP	SOUTHERN YELLOW PINE
C.O.	CLEAN OUT	FLUOR.	FLUORESCENT	N.I.C.	NOT IN CONTRACT	SYS.	SYSTEM
C.T.	CERAMIC TILE	FP	FIRE PROOF	N.T.S.	NOT TO SCALE	T & G	TONGUE AND GROOVE
CAB	CABINET	FTG.	FOOTING	NCM	NON-CORROSIVE METAL	T.B.	THROUGH BOLT
CAM.	CAMBER	FURN.	FURNISH	NFC	NOT FOR CONSTRUCTION	T.O.	TOP OF
CCTV	CLOSED CIRCUIT TELEVISION	G.I.	GALVANIZED IRON	NLR.	NAILER	T.O.B.	TOP OF BEAM
CEM.	CEMENT	GA.	GAUGE	NO.	NUMBER	T.O.C.	TOP OF CURB
CER	CERAMIC	GALV.	GALVANIZED	NOM.	NOMINAL	T.O.F.	TOP OF FOOTING
CPM	CUBIC FEET PER MINUTE	GAR.	GARAGE	O.C.	ON CENTER	T.O.J.	TOP OF JOIST
CH or E	CHANNEL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	O.D.	OUTSIDE DIAMETER	T.O.M.	TOP OF MASONRY
CKT. BKR.	CIRCUIT BREAKER	GR	GROUND FAULT INTERRUPTER	O.H.	OVER HANG	T.O.S.	TOP OF SLAB
CL or Q or C/L	CENTERLINE	GL	GLASS	O.I.	ORNAMENTAL IRON	T.O.W.	TOP OF WALL
CLG.	CEILING	GLB	GLUE LAMINATED BEAM	O.R.	OUTSIDE RADIUS	T.S.	TUBE STEEL
CLKG.	CAULKING	GM	GRADE MARK	OAI	OUTSIDE AIR INTAKE	T.V.	TELEVISION OUTLET
CLO.	CLOSET	GM	GATE VALVE	OH	OVER HEAD	TEL.	TELEPHONE
CLR.	CLEAR	GRC	GALVANIZED RIGID TUBING	OPNG.	OPENING	THD.	THREADED
CMU	CONCRETE MASONRY UNIT	GYP.	GYPSUM	OPPO.	OPPOSITE	THK.	THICK
CNTRD.	CENTERED	GYP. BD.	GYPSUM BOARD	P.C.	PRECAST CONCRETE	THRU	THROUGH
COL.	COLUMN	H.B.	HOSE BIBB	P.L. or P	PROPERTY LINE	TLT.	TOILET
COMB.	COMBINATION	H.C.	HOLLOW CORE	P.LAM.	PLASTIC LAMINATE	TYP.	TYPICAL
CONC.	CONCRETE	H.M.	HOLLOW METAL	P.O.C.	POINT OF CONNECTION	UNF.	UNFINISHED
CONST.	CONSTRUCTION	H/C	HANDICAPPED	PERF.	PERFORATED	UNO -ok U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	HDBD.	HARDBOARD	PERP. or I	PERPENDICULAR	UR	URINAL
CONTR.	CONTRACTOR	HDW	HARDWARE	PH or Ø	PHASE	V.B.	VAPOR BARRIER
CU	COPPER	HGT.	HEIGHT	PL	PLASTER	V.I.F.	VERIFY IN FIELD
d	PENNY	HOR.	HORIZONTAL	PL. or P	PLATE	VA	VOLT AMPERE
D.F.	DRINKING FOUNTAIN	HTR	HEATER	PLAS.	PLASTIC	VCT	VINYL COMPOSITION TILE
D.G.	DECOMPOSED GRANITE	HVAC	HEATING, VENTILATING & AIR CONDITIONING	PLUMB.	PLUMBING	VERT.	VERTICAL
D.S.	DOWN SPOUT	HW	HOT WATER	PLYWD.	PLYWOOD	W/C	WATER CLOSET
D/W	DSHWASHER	HYD.	HYDRAULIC	PORC.	PORCELAIN	WDW	WINDOW
DBL.	DOUBLE	I.C.	INTERCOM OUTLET	PREFAB.	PREFABRICATED	WCT	WAINSCOT
DEMO	DEMOLITION	I.D.	INSIDE DIAMETER	PSF	POUNDS PER SQUARE FOOT	WP	WEATHER PROOF
DIA. or Ø	DIAMETER	I.F.	INSIDE FACE	PSI	POUNDS PER SQUARE INCH	WT.	WEIGHT
DIAG.	DIAGONAL	ID	IDENTIFICATION	PTN.	PARTITION	W/	WITH
DIM.	DIMENSION	IG	ISOLATED GROUND	PVC	POLYVINYLCHLORIDE	W/O	WITHOUT
DL	DEAD LOAD	IMC	INTERMEDIATE METALLIC CONDUIT	PWR.	POWER	WD.	WOOD
DN.	DOWN	IMP/G	IMPREGNATED	Q.T.	QUARRY TILE	W.J.	WROUGHT IRON
DR	DOOR	INCL.	"INCLUDE, INCLUSIVE"	QTY.	QUANTITY	YD.	YARD



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Project  
DESIGNER  
Scott Armistead

REVISIONS

Description

Date

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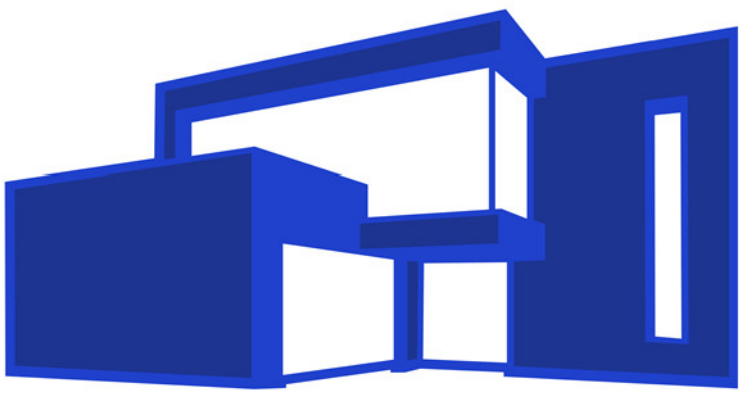
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NOTES

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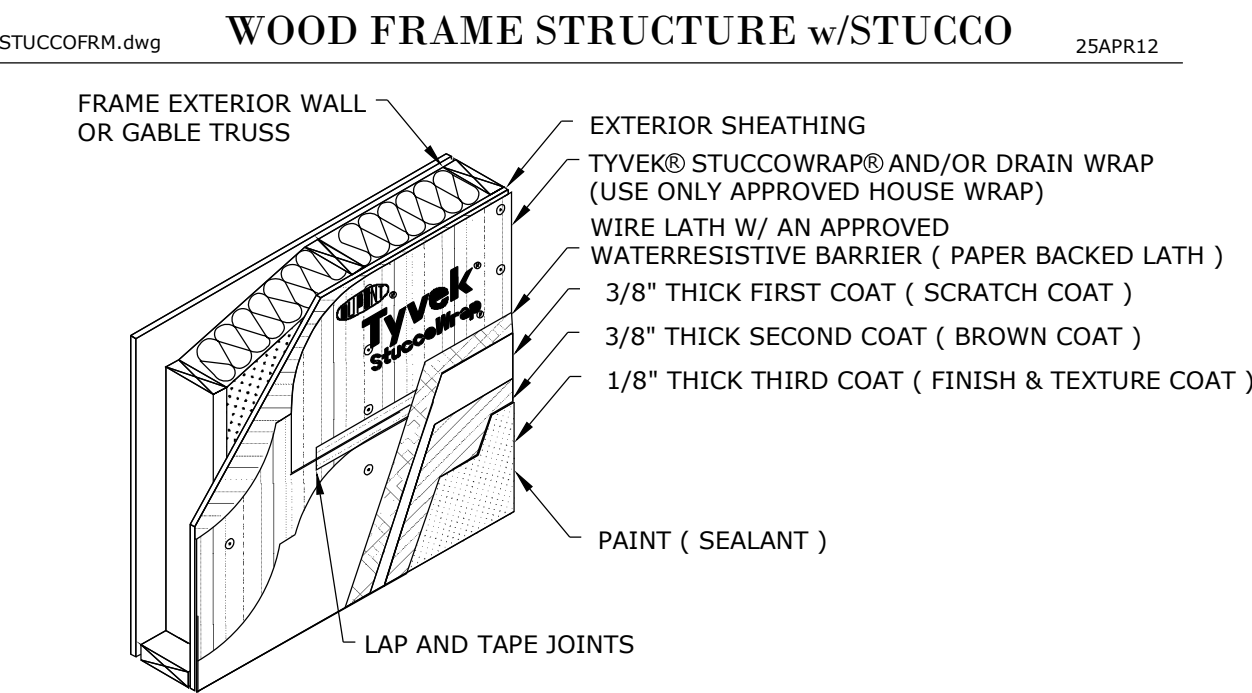


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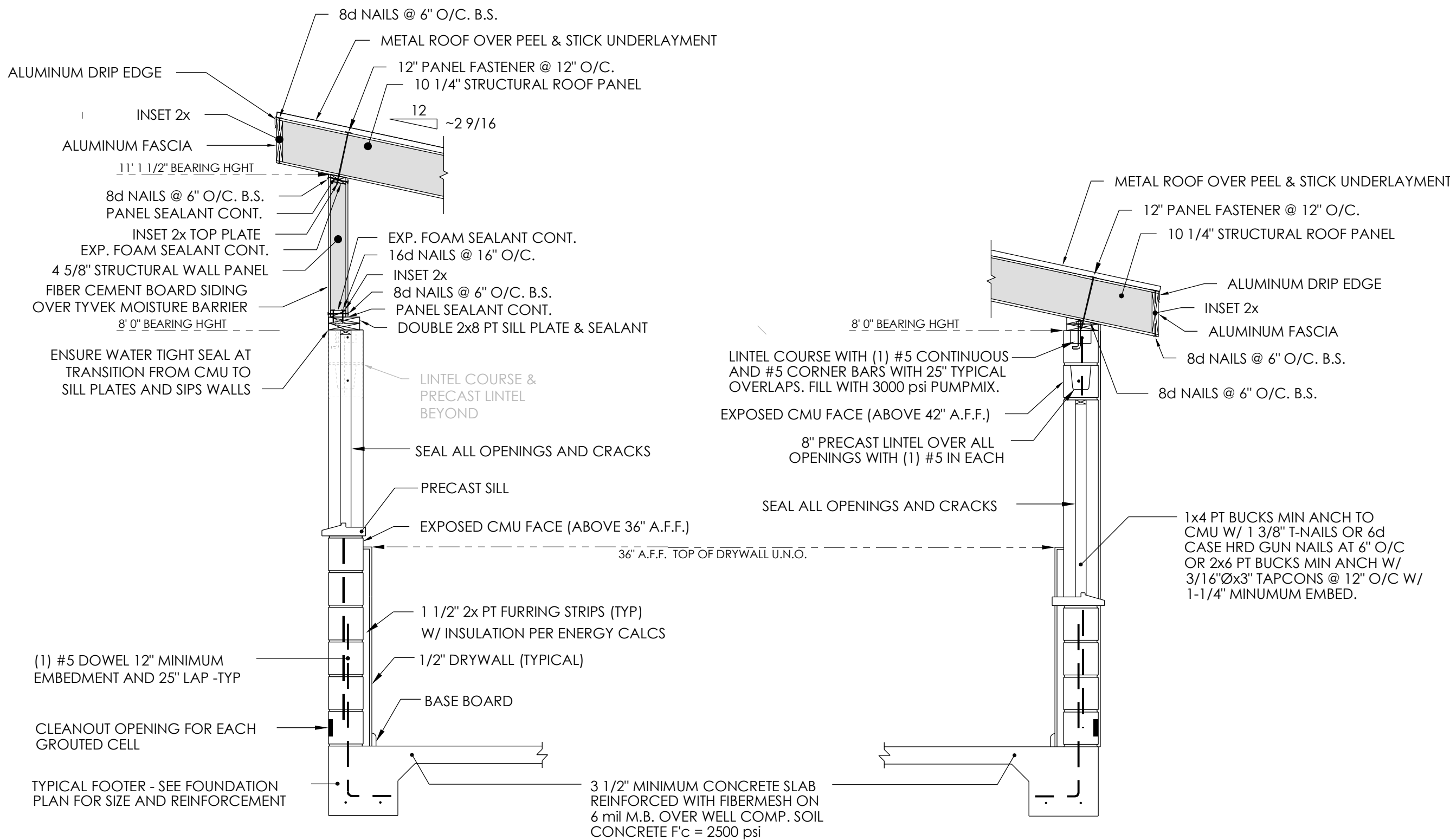
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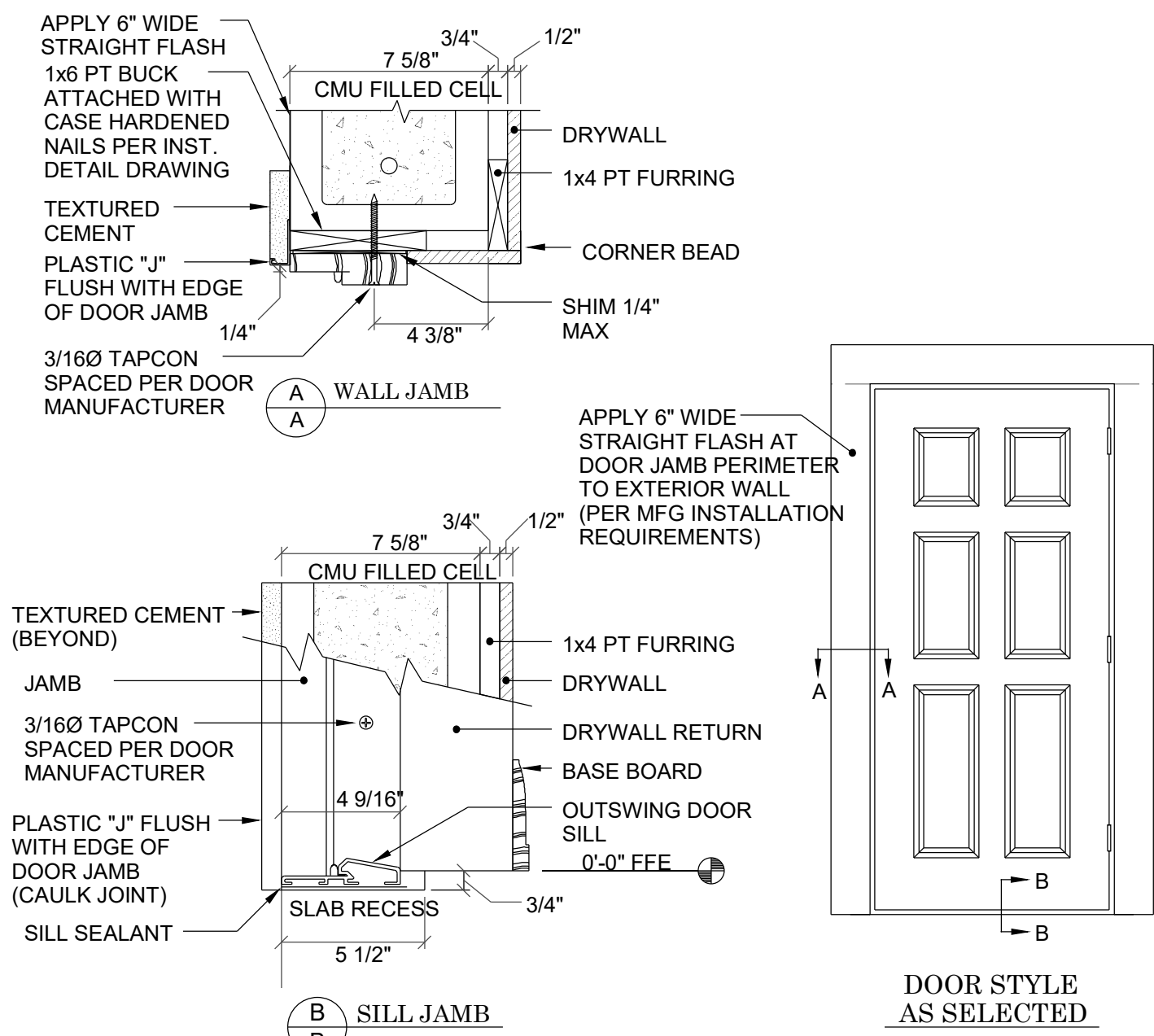
\*\*\*OPTION INLIEU OF CEMENT BOARD SIDING\*\*\*



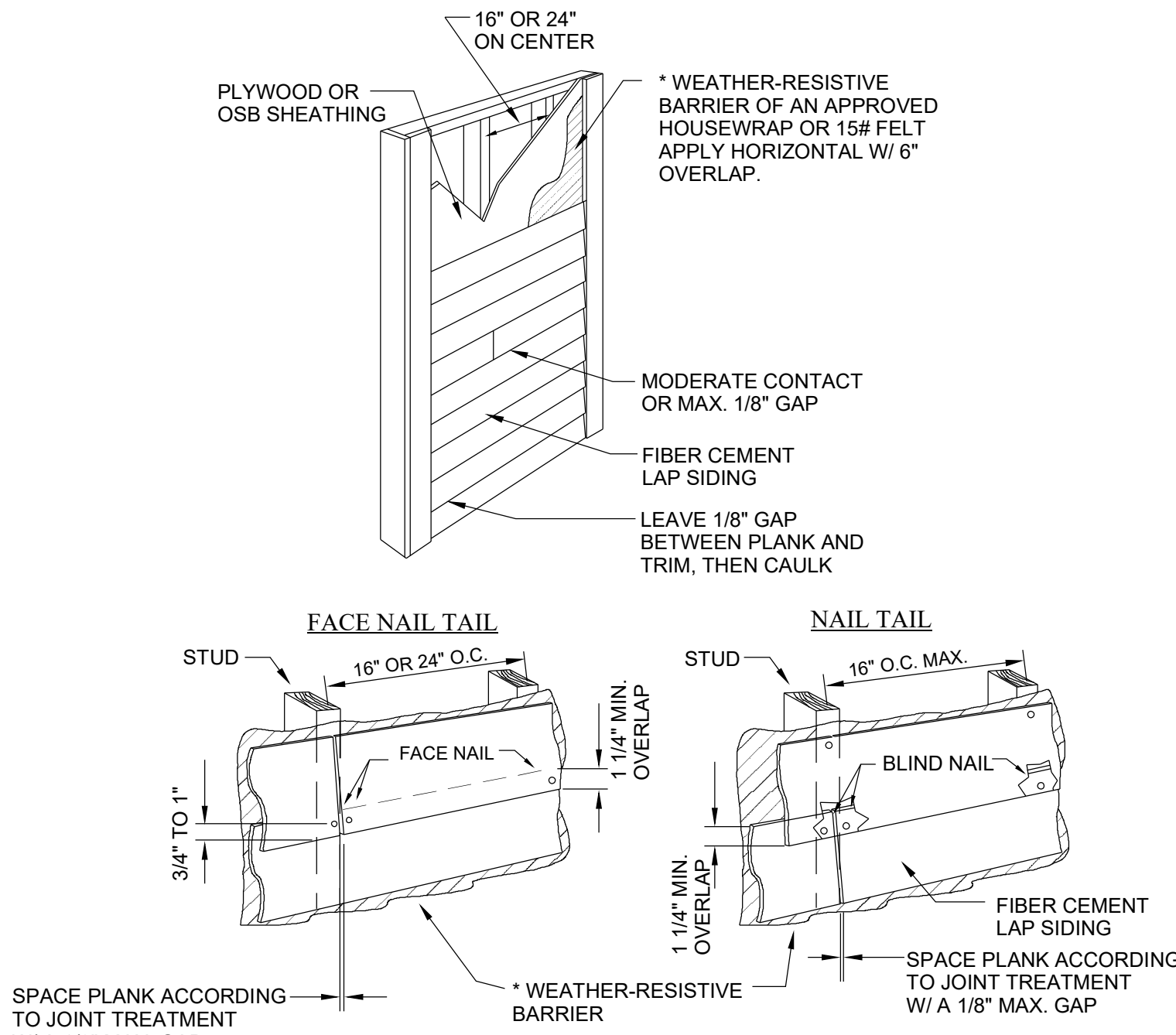
STUCCOED FRAME EXTERIOR WALLS & GABLE END TRUSSES ARE PER ASTM C 926 & ASTM C 1063. APPLY PAINT/SEALANT ON STUCCO APPLIED TO LATH OVER ONE LAYER OF A STATE APPROVED WATER RESISTANT BARRIER OVER AN APPROVED HOUSE WRAP PER FBC R703.7.3. USE OF WEEP SCREDS, CONTROL JOINTS, OR EXP. JOINTS SHALL BE USED TO DRAIN MOISTURE. ONLY WORKERS WHO UNDERSTAND PROPER INSTALLATIONS OF ANY WATER BARRIERS INCLUDING FLASHINGS & SEALANTS SHALL BE USED.



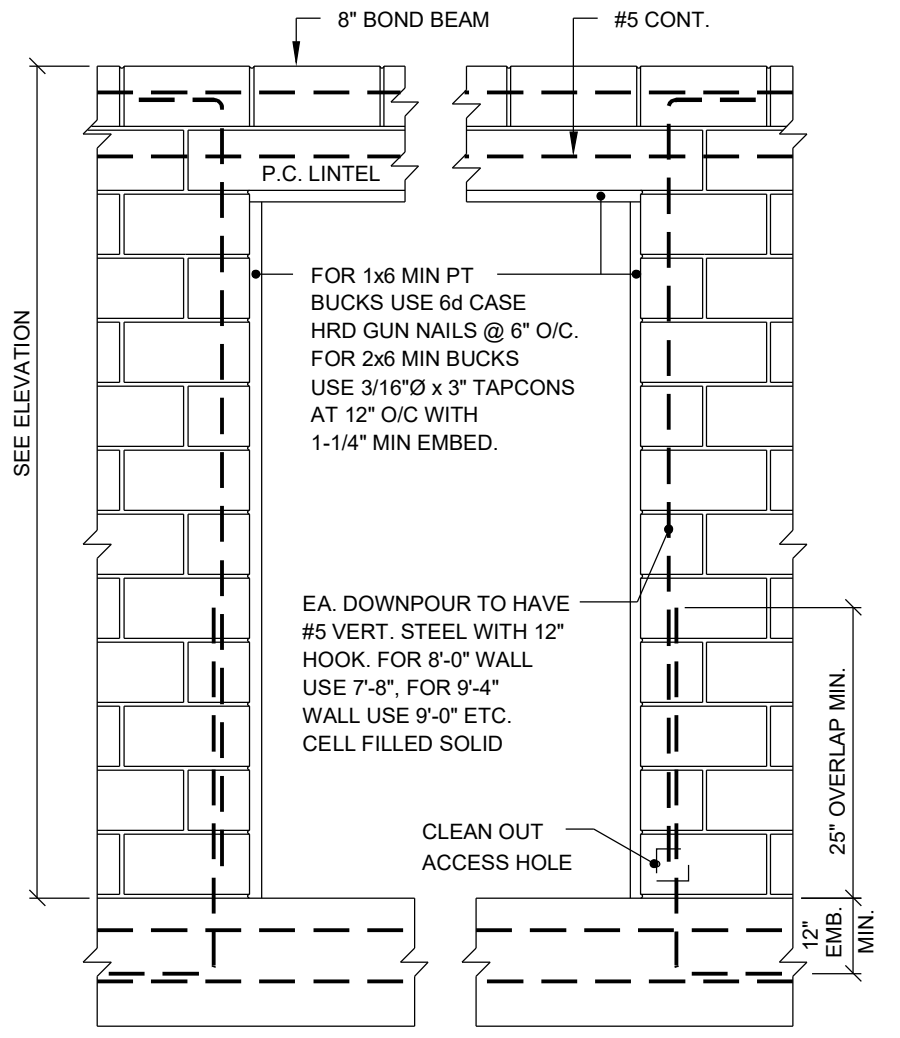
0101 TYPICAL WALL SECTION  
SCALE: NTS



0921 CMU OUTSWING DOOR JAMB DETAILS (FLUSH WITH EXTERIOR WALL)  
SCALE: NTS



FIBER CEMENT SIDING NAILING  
LAPNAIL.dwg SCALE: NTS 01OCT12



0902 DOOR/SLIDER BUCK AND REBAR DETAIL  
SCALE: NTS

Hybrid CMU & SIPs Tiny House

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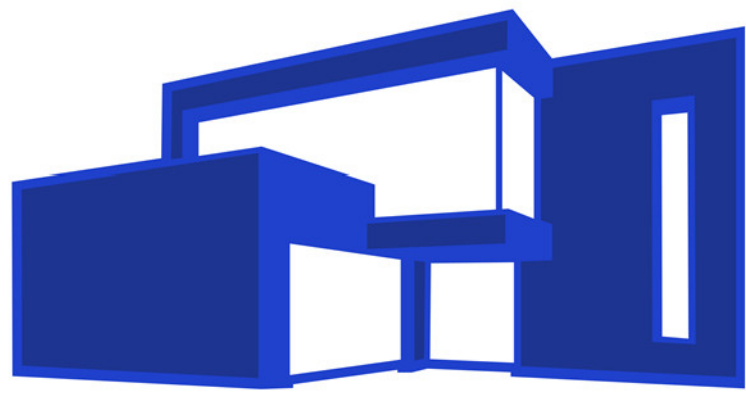
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DETAILS

Scale 1/4" = 1'





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# Hybrid CMU & SIPS Tiny House

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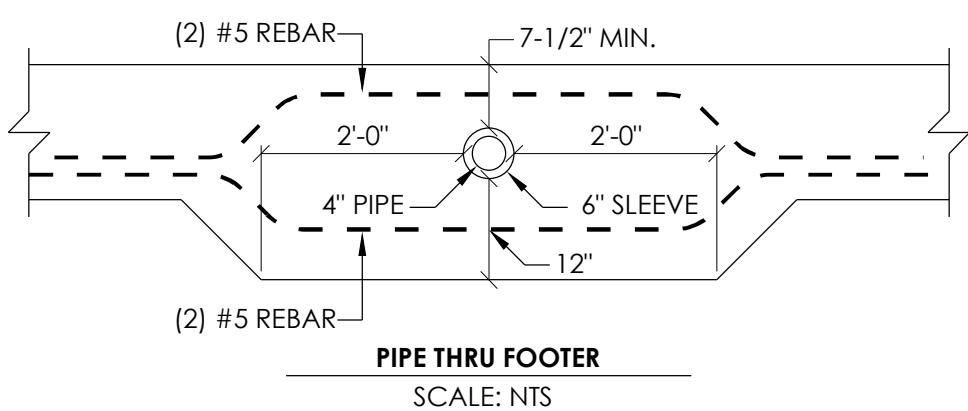
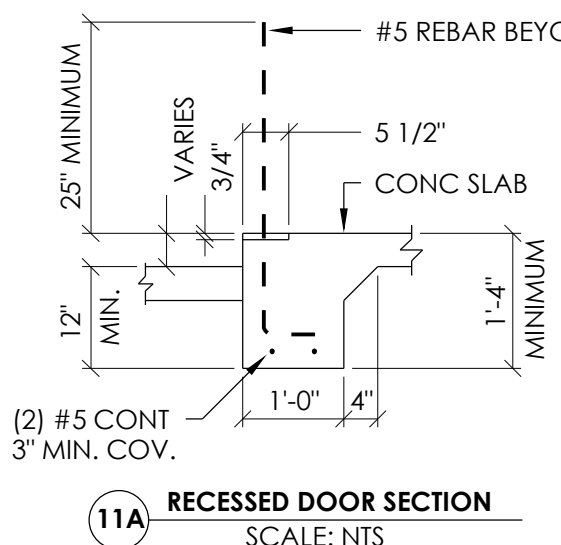
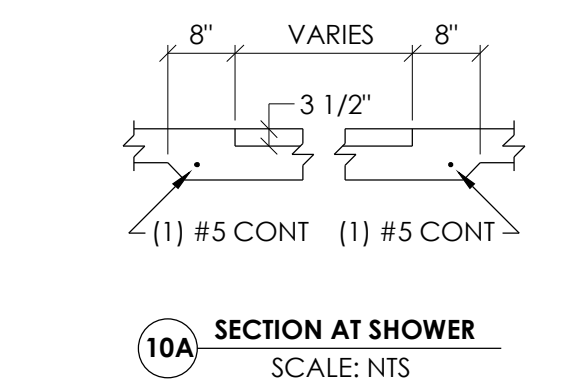
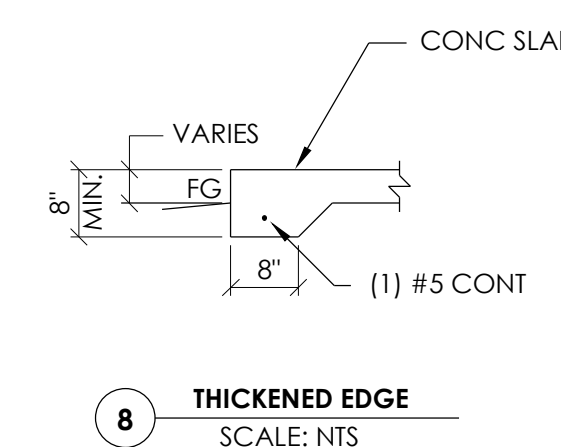
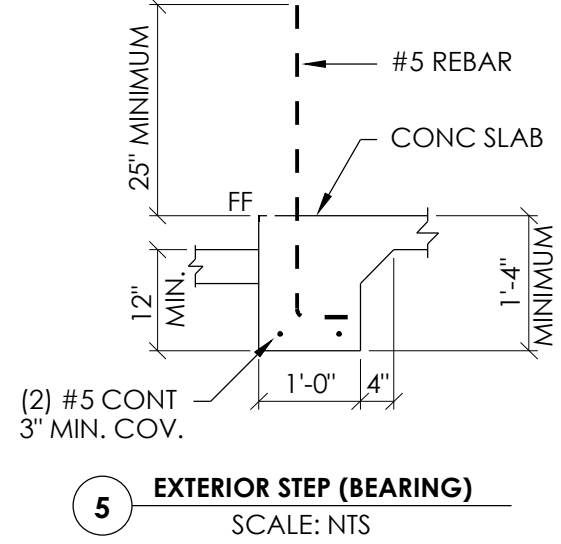
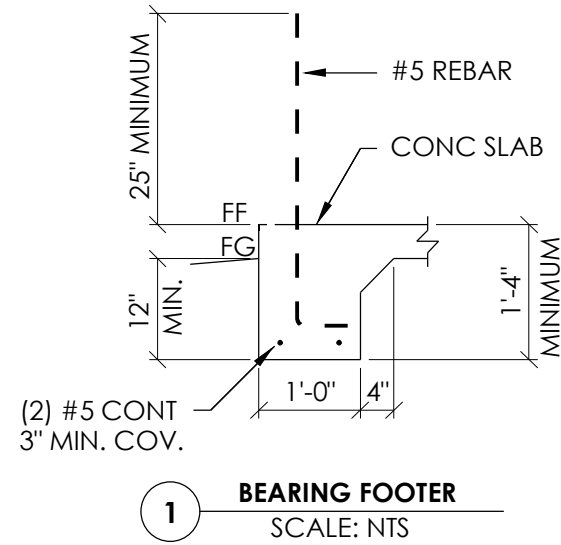
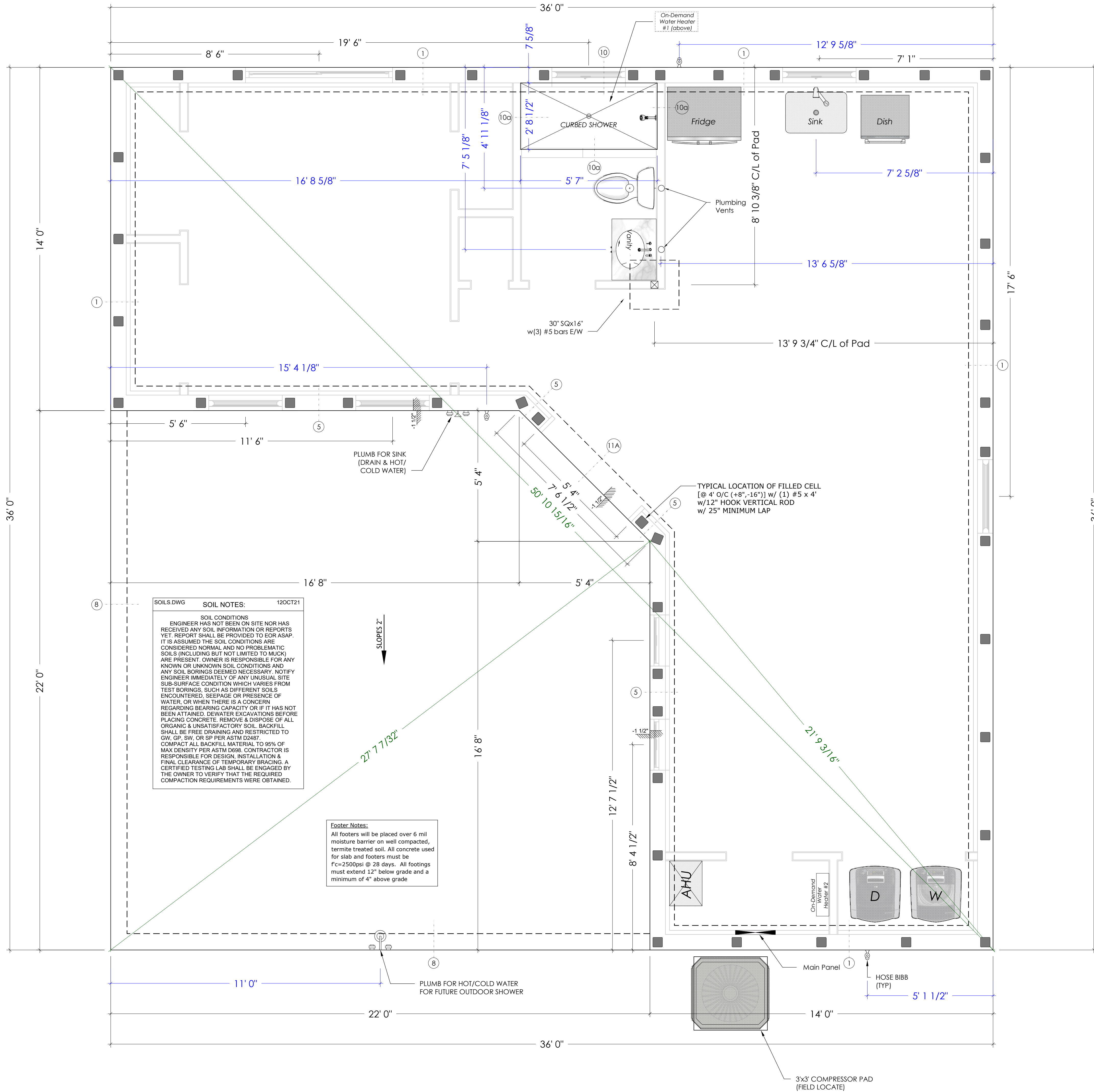
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## FOUNDATION PLAN

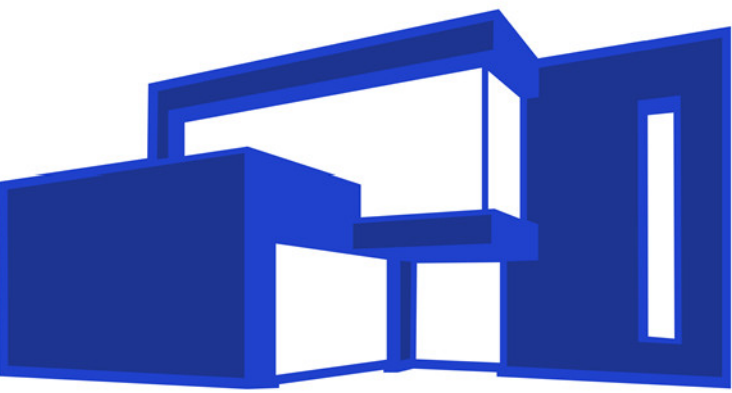
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DESIGNER  
Scott Armistead

FLOOR PLAN NOTES:

1. ALL KITCHEN WALLS CONTAINING WALL CABINETS SHALL BE FRAMED AT 16" ON CENTER.
2. FOR MECHANICAL INSTALLATION, ALL TAPES, CONNECTORS, AND MASTIC SHALL BE UL LISTED.
3. ALL INTERIOR GYP CEIL BRD IS 1/2" SAG RESISTANT, & IS SCREWED @ 12" O/C.
4. ALL FRAME WALLS ARE NOMINALLY DRAWN AT 4 1/2" ASSUMING 3 1/2" FRAMING WITH 1/2" OF DRYWALL ON EACH SIDE (UNO).
5. ALL DIMENSIONS REFERENCE FACE OF STUDWALL FOR FRAME WALLS, AND FACE OF CMU FOR EXTERIOR WALLS. EXCEPT DIMENSIONS REFERENCE KITCHEN CABINETS & ISLAND.
6. ALL CEILING HEIGHTS ARE REFERENCED FROM MAIN FINISHED FLOOR LEVEL AND DO NOT INCLUDE STEP DOWNS.

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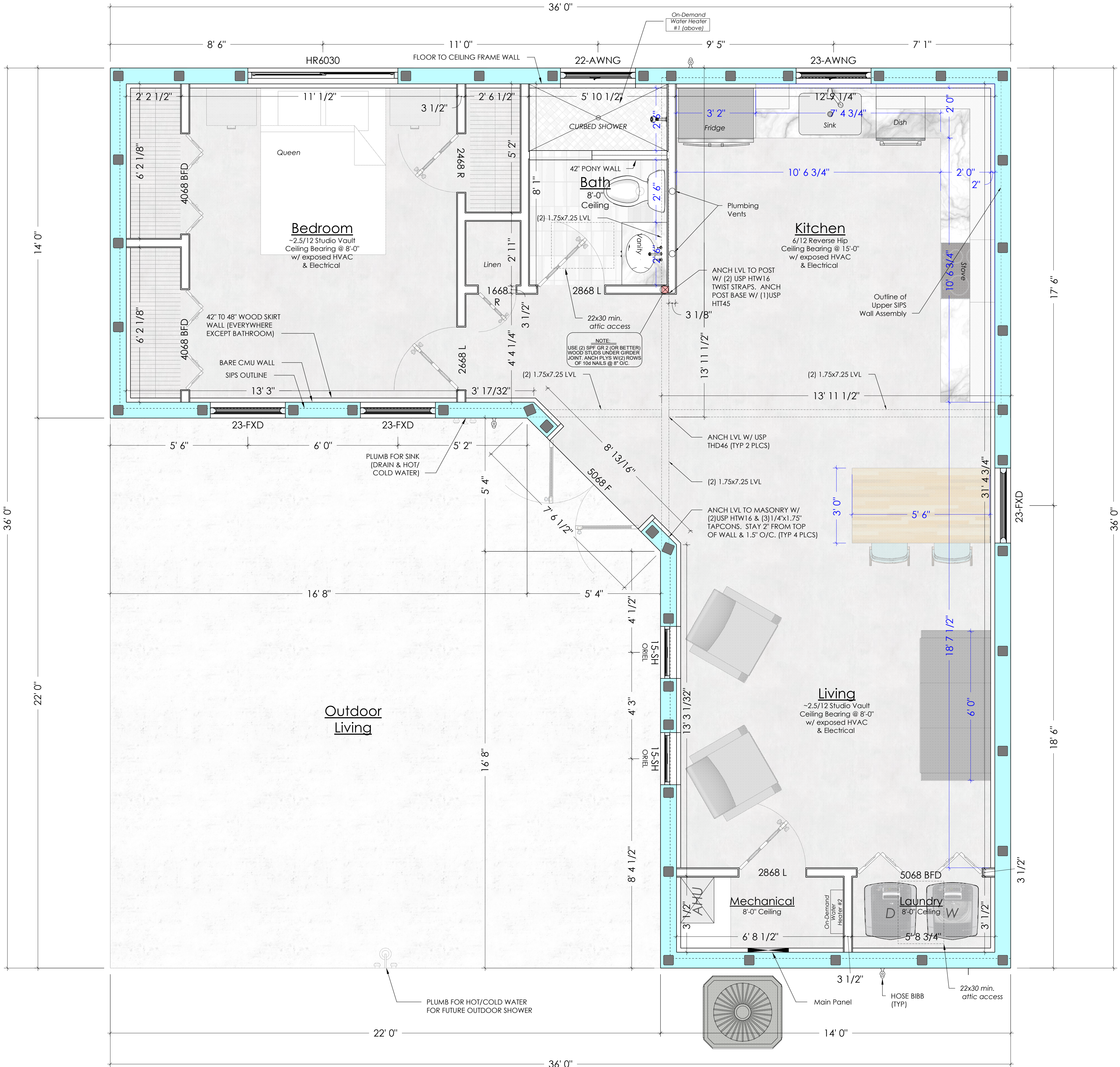
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FLOOR PLAN

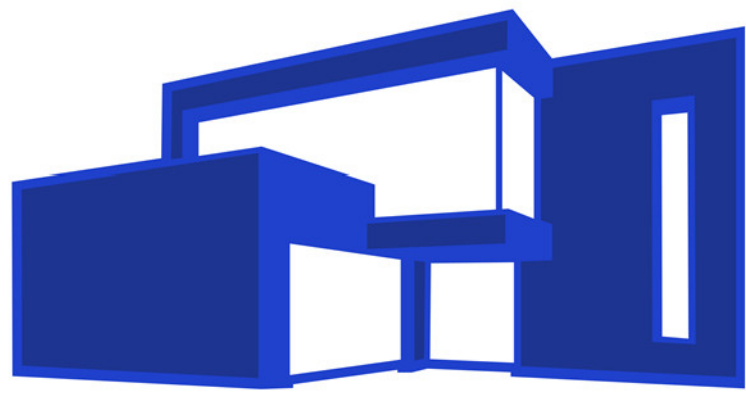
Scale 1/2" = 1'

PAGE NO

06







ARMISTEAD DESIGN INC

STRUCTURAL ONLY

625 Pen Drive  
Merritt Island, Florida 32952  
Phone: (321) 454-6499  
www.ArmisteadDesign.com

Project  
DESIGNER  
Scott Armistead

# Hybrid CMU & SIPS Tiny House

REVISIONS	Date
Description	

When it's all done  
YOU'RE GOING TO LOVE THIS HOUSE

Happy Homeowners  
123 Jimmy St  
Aytown, FL 32953

Project No.  
00000000

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ROOF PLAN

Scale 1/2" = 1'

PAGE NO.

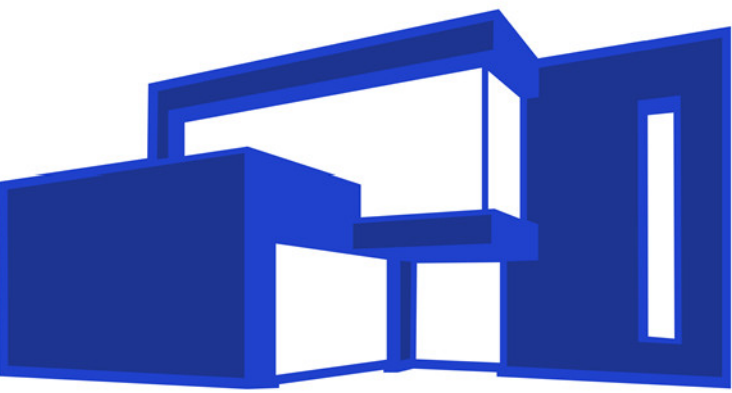
CUPOLA HIP ROOF  
STRUCTURE: 8" SIP  
TOP CHORD PITCH: 6/12  
BOTTOM CHORD PITCH: N/A  
EAVE OH: 1'-0" (U.N.O.)  
GABLE OH: N/A  
MATERIAL/LOADING: METAL

MONO-SLOPE ROOF  
STRUCTURE: 8" SIP  
TOP CHORD PITCH: ~2 9/16 /12  
BOTTOM CHORD PITCH: N/A  
EAVE OH: 1'-0" (U.N.O.)  
GABLE OH: 1'-0" (U.N.O.)  
MATERIAL/LOADING: METAL

MONO-SLOPE ROOF  
STRUCTURE: 8" SIP  
TOP CHORD PITCH: 3/12  
BOTTOM CHORD PITCH: N/A  
EAVE OH: 1'-0" (U.N.O.)  
GABLE OH: N/A  
MATERIAL/LOADING: METAL

MONO-SLOPE ROOF  
STRUCTURE: 8" SIP  
TOP CHORD PITCH: ~2 9/16 /12  
BOTTOM CHORD PITCH: N/A  
EAVE OH: 1'-0" (U.N.O.)  
GABLE OH: 1'-0" (U.N.O.)  
MATERIAL/LOADING: METAL





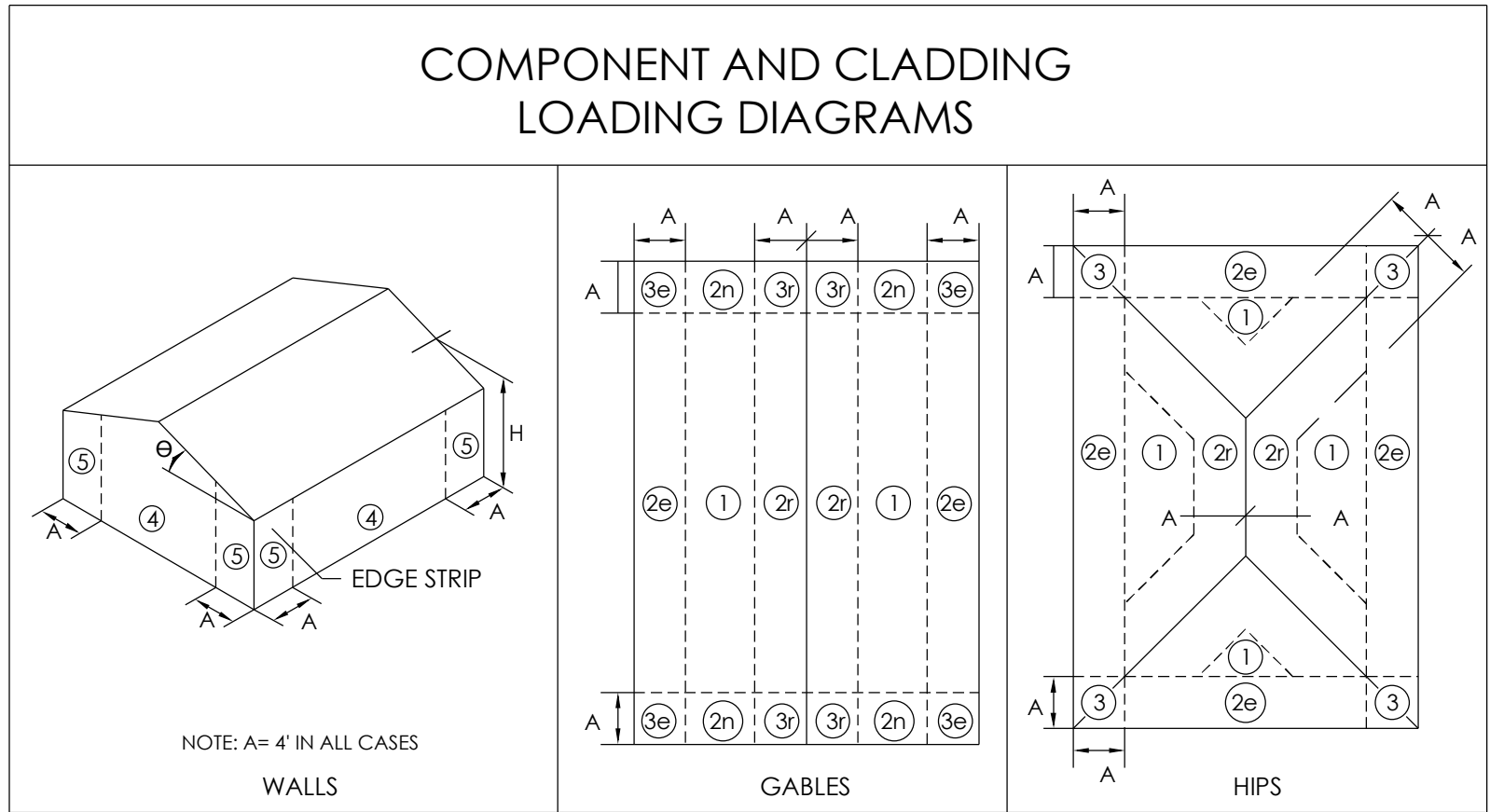
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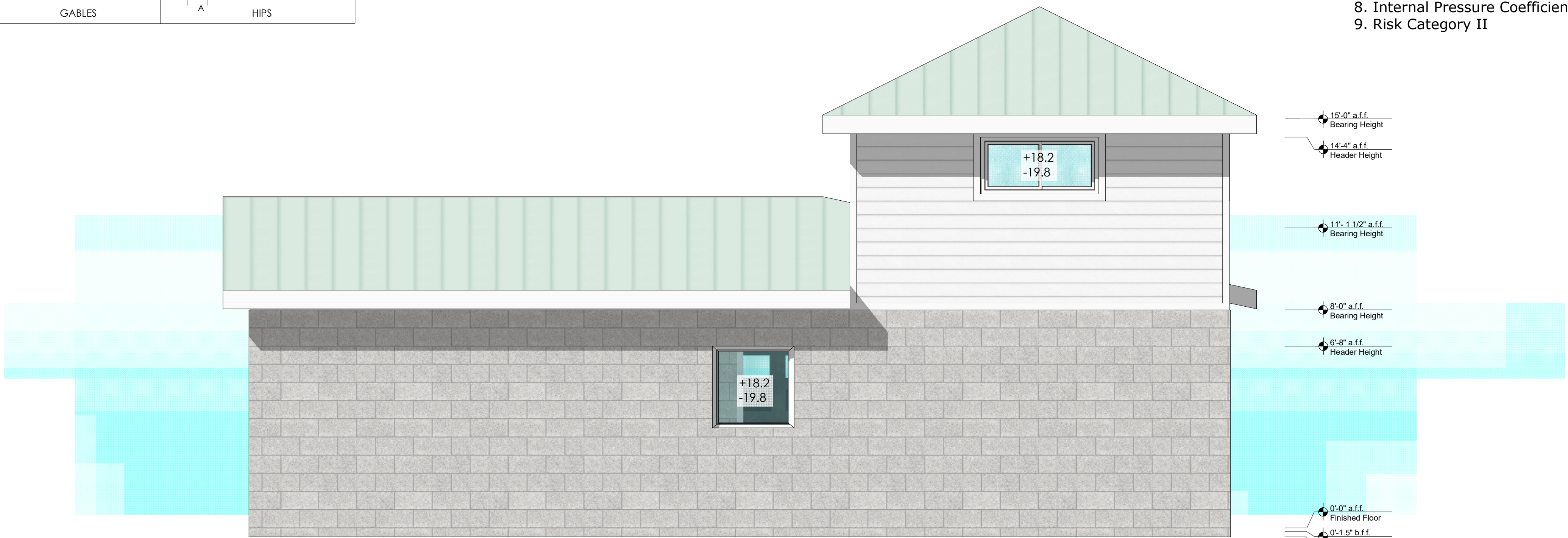
Front Elevation



Wind Load Notes

These plans prepared to comply with FBC latest edition (see SH1).

1. Ultimate Design Wind Speed: 130mph
2. Exposure Category: B
3. All new structures and openings on this plan are designed as fully enclosed.
4. According to ASCE 7-16, this structure occurs within the wind-bourne debris region. Protection of openings is required.
5. All new exterior doors and windows must be installed per manufacturer's specifications to ensure that it will meet design wind load requirements.
6. Exterior doors and windows shall comply with testing and labeling requirements of FBC.
7. ROOF LIVE LOAD (LL)=20 PSF; ROOF DEAD LOAD (DL) (SHINGLE)=7 PSF; ROOF DL (TILE)=15 PSF; BOTTOM CHORD DL=10 PSF FLOOR LL=40 PSF (BALCONY LL=60 PSF). FLOOR TOP CHORD DL=10 PSF, FLOOR BOTTOM CHORD DL=5 PSF.
8. Internal Pressure Coefficient: +/-0.18
9. Risk Category II



Right Elevation

REVISIONS

Description Date

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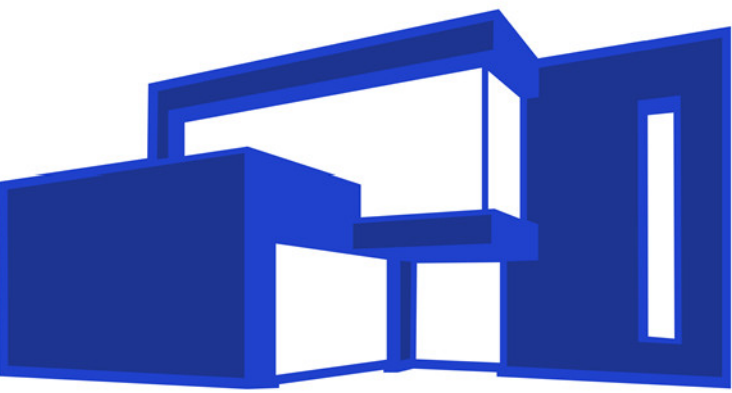
When it's all done

ELEVATION VIEWS  
FRONT & RIGHT

Scale 3/8" = 1'

Hybrid CMU & SIPs Tiny House

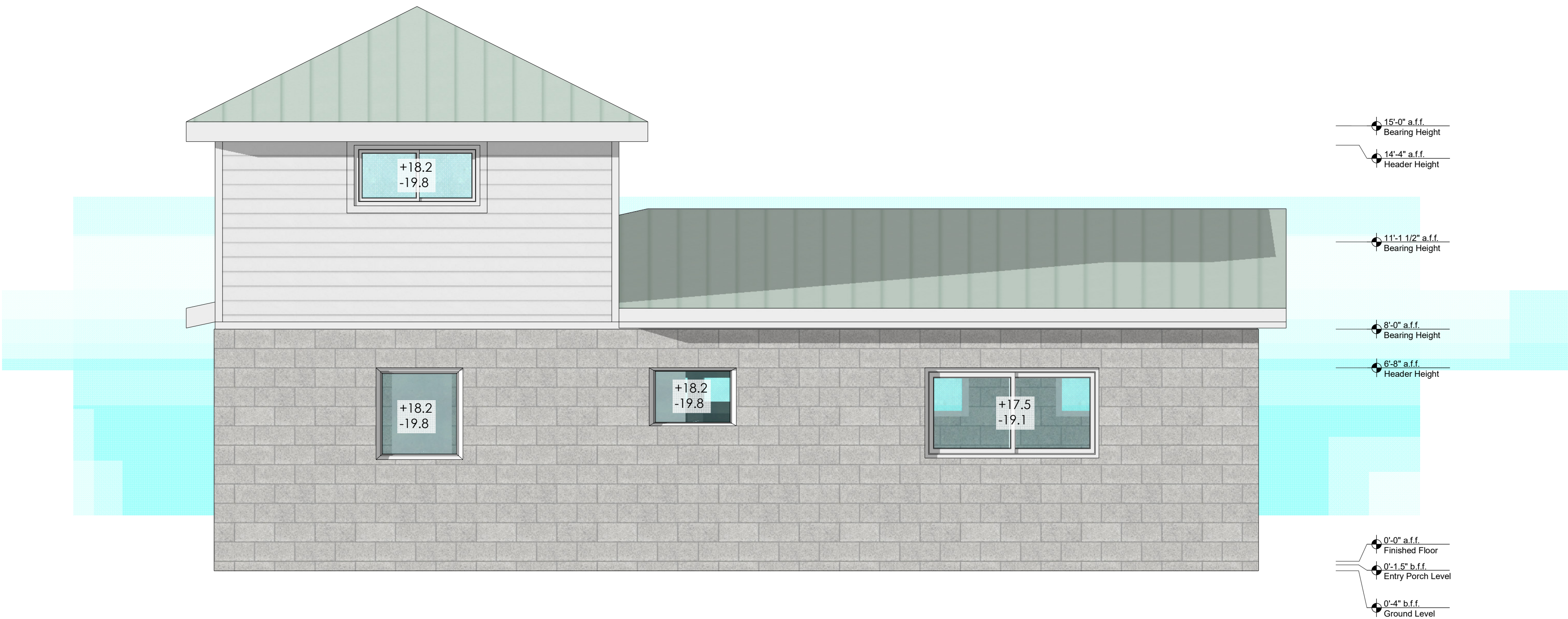




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Rear Elevation



Left Elevation

Hybrid CMU & SIPs Tiny House

REVISIONS	Date
Description	

When it's all done

←

→

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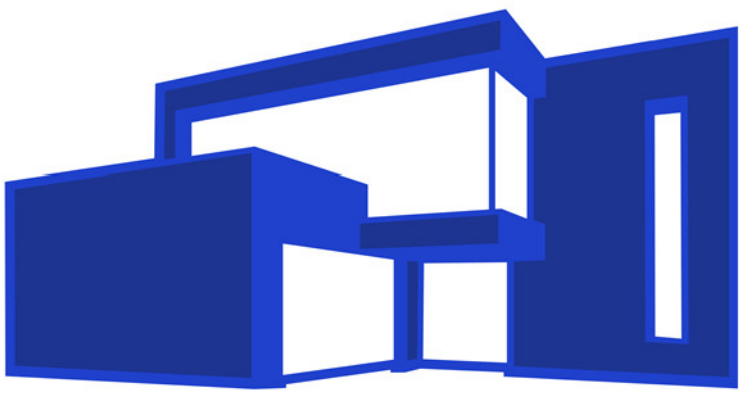
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ELEVATION VIEWS  
REAR & LEFT

Scale ◆ 3/8" = 1'





ARMISTEAD DESIGN INC

STRUCTURAL ONLY

Electrical Contractor: \_\_\_\_\_  
E.C. Address: \_\_\_\_\_  
E.C. License #: \_\_\_\_\_  
Add: \_\_\_\_\_

DRAWINGS DO NOT REQUIRE ENGINEERING SEAL IF SYSTEM IS UNDER \$125K & 600A (ELEC-RESIDENTIAL); 15 TONS OR LESS THAN 100 PEOPLE (HVAC); & 250 FIXTURE UNITS (PLUMBING), & DESIGNED BY A STATE LICENSED CONTRACTOR. (IF S. 471.003 (2) (b)1&2) (THIS DRAWING SHEET IS NOT SIGNED AND SEALED)

625 Fern Drive  
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Project Designer  
Scott Armistead

Hybrid CMU & SIPs Tiny House

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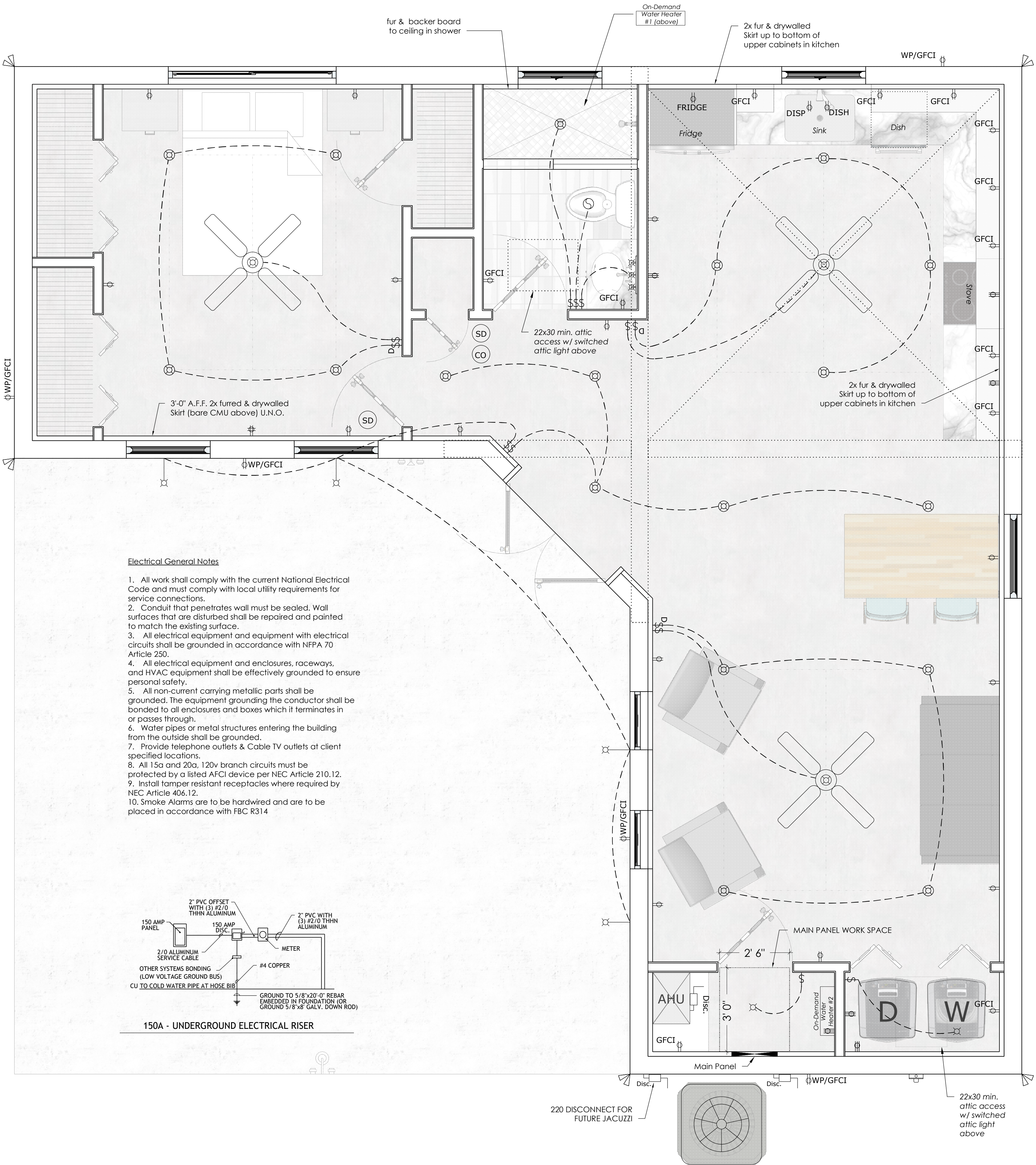
ELECTRICAL PLAN

Scale 1/2" = 1'

Electrical Legend

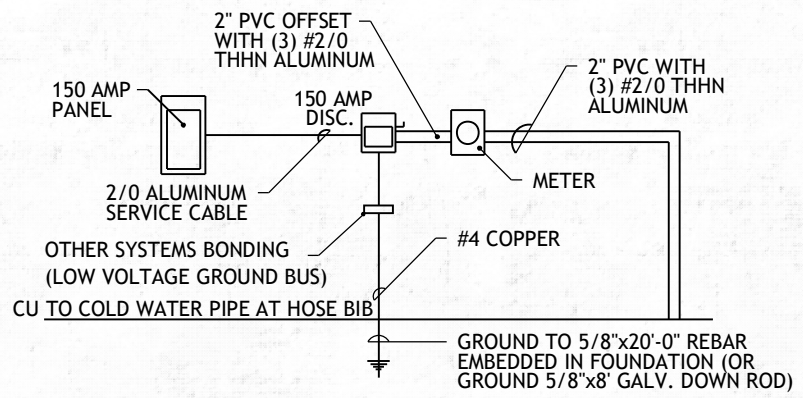
—S	Switch
—SD	Dimmer switch
—S3	3 Way Switch
—S4	4 Way Switch
⊕	110V Receptacle (See Notes 8 & 9)
⊕	110V Quad Receptacle (See Notes 8 & 9)
⊕	Ground Fault Rec.
⊕	Water Proof Ground Fault Rec.
⊕	220V Receptacle
⊕	110V Floor Mounted Rec.
⊕	110V Ceiling Mounted Rec.
⊕	Light Bar
⊕	Pendant Light
⊕	Smoke Alarm (Interconnected)
⊕	Carbon Monoxide Alarm
⊕	Light Fixture
⊕	Wall Mount Sconce/Uplight
⊕	Recessed Fixture
⊕	Disconnect
⊕	Vent Fan
⊕	Vent Fan/Light Combo
⊕	Main Panel
⊕	Power Riser
⊕	Junction Box
⊕	LED Light
⊕	Flood Lights
⊕	Ceiling Fan

Electrical Load Calculation		
General Load		
826sf at 3VA	20A /12ga	2,478VA
Small Appliance (4 @ 1500VA)	20A /12ga	6,000VA
Washer	20A /12ga	1,500VA
Dryer	30A /10ga	5,000VA
Disposal	20A /12ga	500VA
Refridgerator	20A /12ga	1,600VA
Dishwasher	20A /12ga	1,200VA
Water Heater (2 @ 4500VA)	30A /10ga	9,000VA
Range	50A/8ga	12,000VA
General Load		39,278VA
First 10kVA at 100%		10,000VA
Remainder at 40%		11,711VA
Sub-Total General Load		21,711VA
Air Conditioning		10,000VA
Rated Total		31,711VA
Calculated Load	Rated Total/240V=	132A



Electrical General Notes

1. All work shall comply with the current National Electrical Code and must comply with local utility requirements for service connections.
2. Conduit that penetrates wall must be sealed. Wall surfaces that are disturbed shall be repaired and painted to match the existing surface.
3. All electrical equipment and equipment with electrical circuits shall be grounded in accordance with NFPA 70 Article 250.
4. All electrical equipment and enclosures, raceways, and HVAC equipment shall be effectively grounded to ensure personal safety.
5. All non-current carrying metallic parts shall be grounded. The equipment grounding the conductor shall be bonded to all enclosures and boxes which it terminates in or passes through.
6. Water pipes or metal structures entering the building from the outside shall be grounded.
7. Provide telephone outlets & Cable TV outlets at client specified locations.
8. All 15a and 20a, 120v branch circuits must be protected by a listed AFCI device per NEC Article 210.12.
9. Install tamper resistant receptacles where required by NEC Article 406.12.
10. Smoke Alarms are to be hardwired and are to be placed in accordance with FBC R314



150A - UNDERGROUND ELECTRICAL RISER