

The Homeowner Residence

Extension of Bedrooms & Family Room Addition

Existing Area Calculations

Living Area: 2110sf
F/Open Porch: 57sf
Garage: 475sf

Totals

Total Area: 2642sf

Post Construction Area Calculations

Living Area: 2110sf
F/Open Porch: 57sf
Garage: 475sf
Add. Living: 553sf

Totals

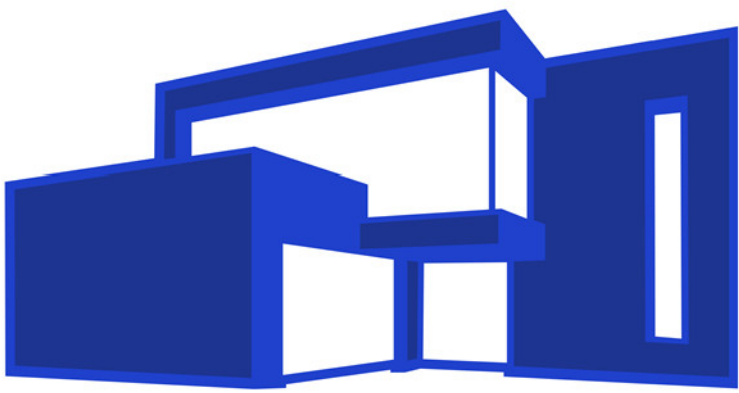
Total Living: 2663sf
Total Area: 3195sf

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13	Electrical Plan

General Structure Data:

Occupancy Type: R-3
Construction Type: V-B
Building Area: 3,195sf



ARMISTEAD DESIGN INC

STRUCTURAL ONLY

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

REVISIONS

Description	Date
-------------	------

Jim & Mary Homeowner
123 Brand Ave NE
Anytown, FL 32907

Project N
0000000

YOU'RE GOING TO LOVE THIS HOUSE

When it's all done

FIELD CONDITIONS, PRODUCTS, AND ASSEMBLIES MAY VARY FROM WHAT IS DEPICTED IN THESE PLANS. DESIGN INTENT IS PARAMOUNT. PLAN DIMENSIONS ARE MEASURED ACCURATE THAN SCALING. AVAILABLE BUDGET ALWAYS CONSTRAINS CREATIVITY.

COVER PAGE I

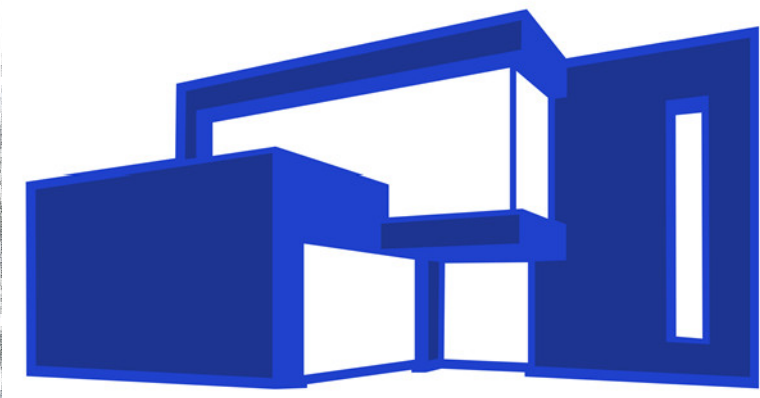
Scale

NTS

PAGE NO

01

Medium Size Addition (LIDAR)



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COVER PAGE II

Scale



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PAGE NO

02



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. The roof trusses shall be sheathed Per TYPICAL NAILING SCHEDULE.
2. Contractor to provide roof vent that complies with Florida Building Code section R806
3. 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.

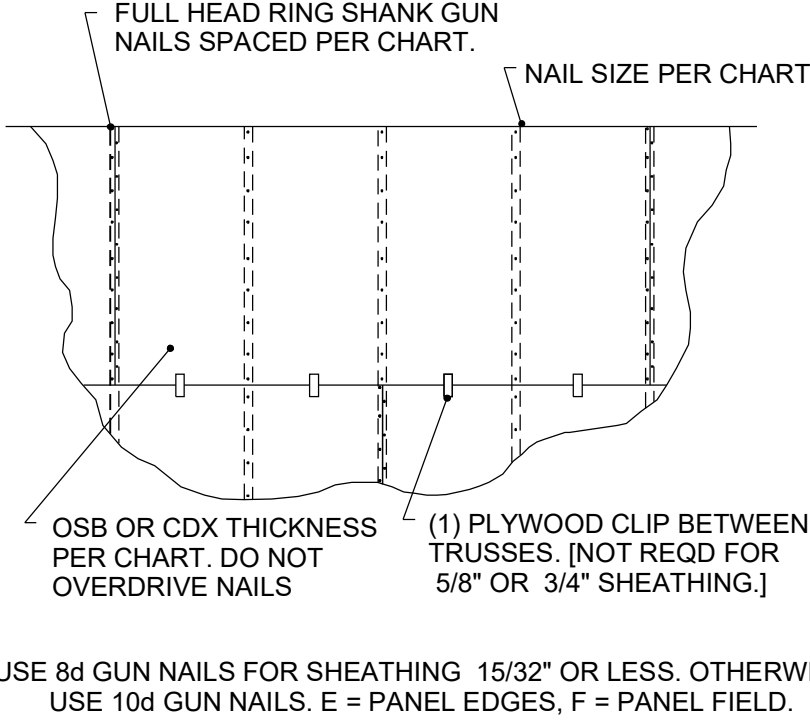
Moisture Mitigation & Water Leaks

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.

Wind Load Notes

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

1. Ultimate Design Wind Speed: 160mph
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. 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



USE 8d GUN NAILS FOR SHEATHING 15/32" OR LESS. OTHERWISE USE 10d GUN NAILS. E = PANEL EDGES, F = PANEL FIELD.

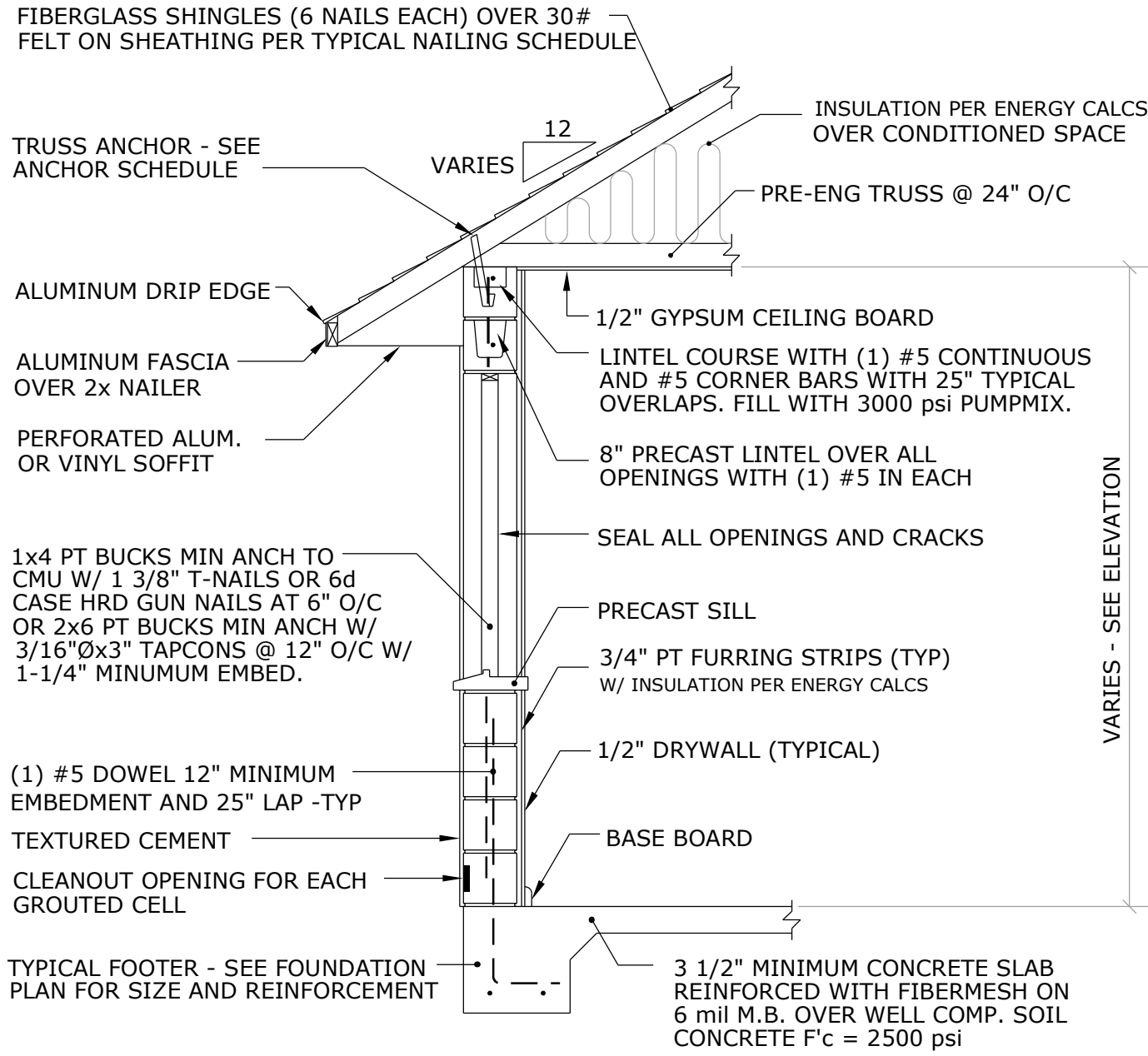
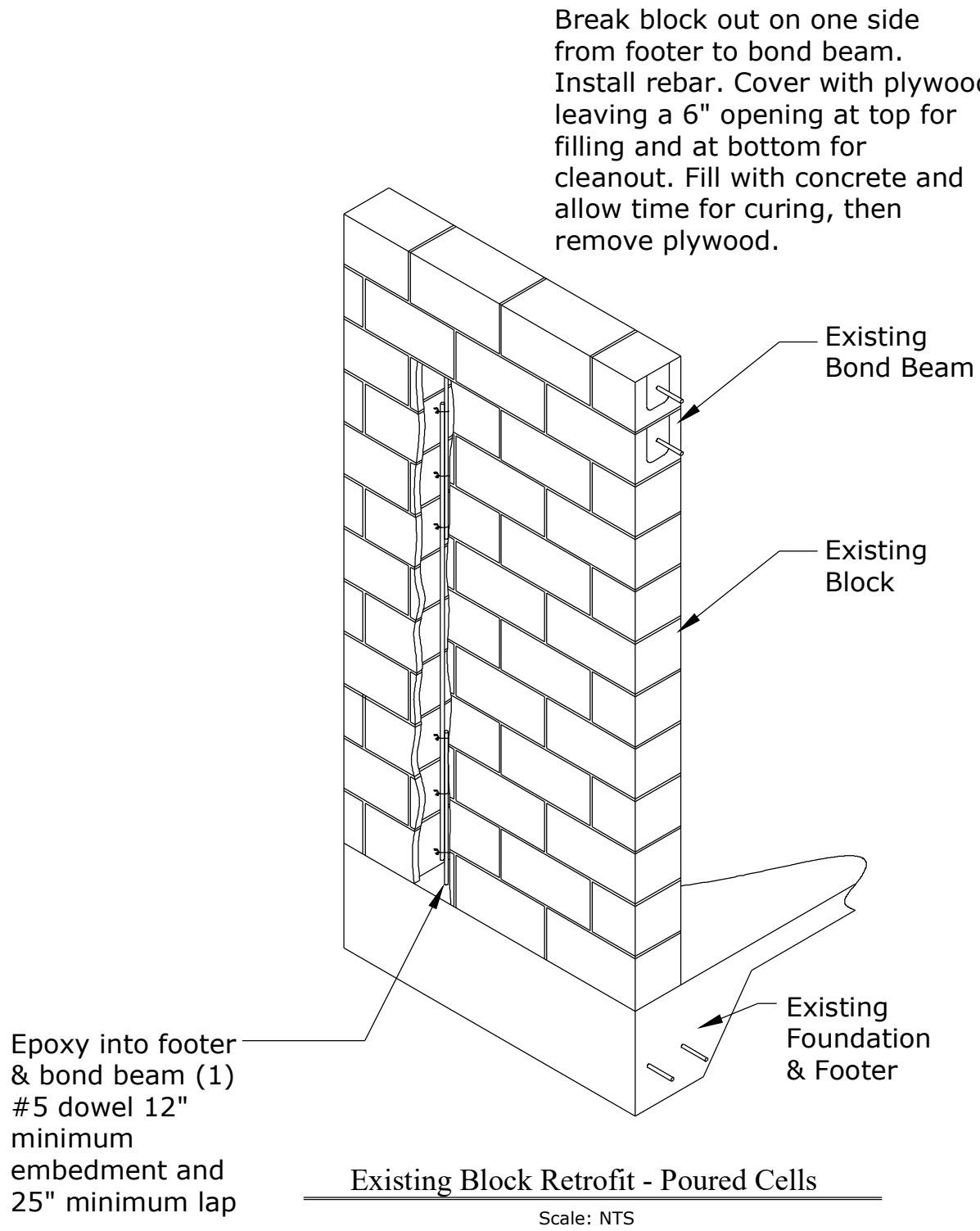
MPH	EXPOSURE B				EXPOSURE C				EXPOSURE D			
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			E	F			E	F			E	F
140	7/16	24/16	6	6	19/32	40/20	6	6	19/32	40/20	6	6
150	15/32	32/16	6	6	19/32	40/20	6	6	19/32	40/20	4	4
160	19/32	40/20	6	6	19/32	40/20	6	6	19/32	40/20	4	4
170	19/32	40/20	6	6	19/32	40/20	4	4	23/32	48/24	4	4
180	19/32	40/20	6	6	23/32	48/24	4	4	23/32	48/24	4	4

TYPICAL NAILING SCHEDULE

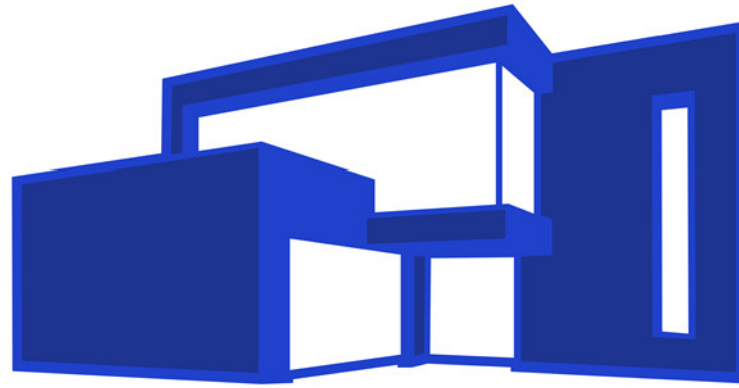
NAILSCHEDULE.dwg 13MAY21 SEK SCALE: NTS

ABBREVIATIONS

#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	EA.	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	LED.	LIGHT EMITTING DIODE	RET.	RETURN
ACT	ACOUSTICAL CEILING TILE	EMC	ELECTRICAL METALLIC CONDUIT	LFT.	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.	ALUMINUM	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
4	ANGLE	EXT.	EXISTING	LIG.	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	SHTG.	SHEATHING
B.O.F.	BOTTOM OF FOOTING	F.D.	FLOOR DRAIN	M.O.	MASONRY OPENING	SHMR.	SHIMMER
B.U.	BUILT UP	F.E.	FIRE EXTINGUISHER	MAR.	MARBLE	SP.	SPACE
B/C	BACK OF CURB	F.N.	FIELD NAILING	MAS.	MASONRY	SPECS	SPECIFICATIONS
BD.	BOARD	F.O.	FACE OF	MATL	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	MEQ.	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.L.P.	CAST IN PLACE	FL	FLOOR	MTL	METAL	SYM	SYMMETRICAL
C.J.	CONTROL JOINT	FLG.	FLOORING	MUL	MULLION	SYN	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
CBM.	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	GA.R	GARAGE	O.C.	ON CENTER	T.O.J.	TOP OF JOIST
CH or C	CHANNEL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	O.D.	OUTSIDE DIAMETER	T.O.M.	TOP OF MASONRY
CKT. BKR.	CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPTER	O.H.	OVER HANG	T.O.S.	TOP OF SLAB
CL or C 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
CNTRO.	CENTERED	GYP. BD.	GYPSUM BOARD	P.C.	PRECAST CONCRETE	THRU	THROUGH
COL.	COLUMN	H.B.	HOSE BIBB	P.L. or R	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. OR U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	HOBBD.	HARDBOARD	PERP. or L	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 R	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	DISHWASHER	HYD.	HYDRAULIC	POBSC.	PORCELAIN	W/O	WITHOUT
DBL	DOUBLE	IC.	INTERCOM OUTLET	PREFAB.	PREFABRICATED	WCOT	WAINSCOT
DEMO	DEMOLITION	LD.	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	WOOD	WOOD
DN.	DOWN	IMPG	IMPREGNATED	Q.T.	QUARRY TILE	W.I.	WROUGHT IRON
DR	DOOR	INCL.	"INCLUDE, INCLUSIVE"	QTY.	QUANTITY	YD.	YARD



0101 TYPICAL WALL SECTION SCALE: NTS



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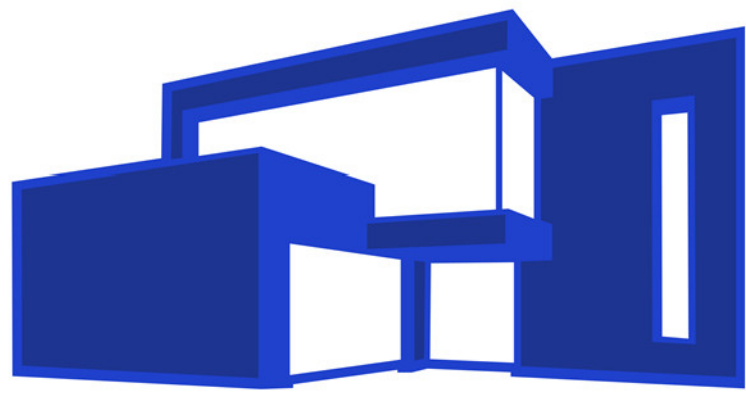
NOTES & DETAILS

Scale

NTS

PAGE N2

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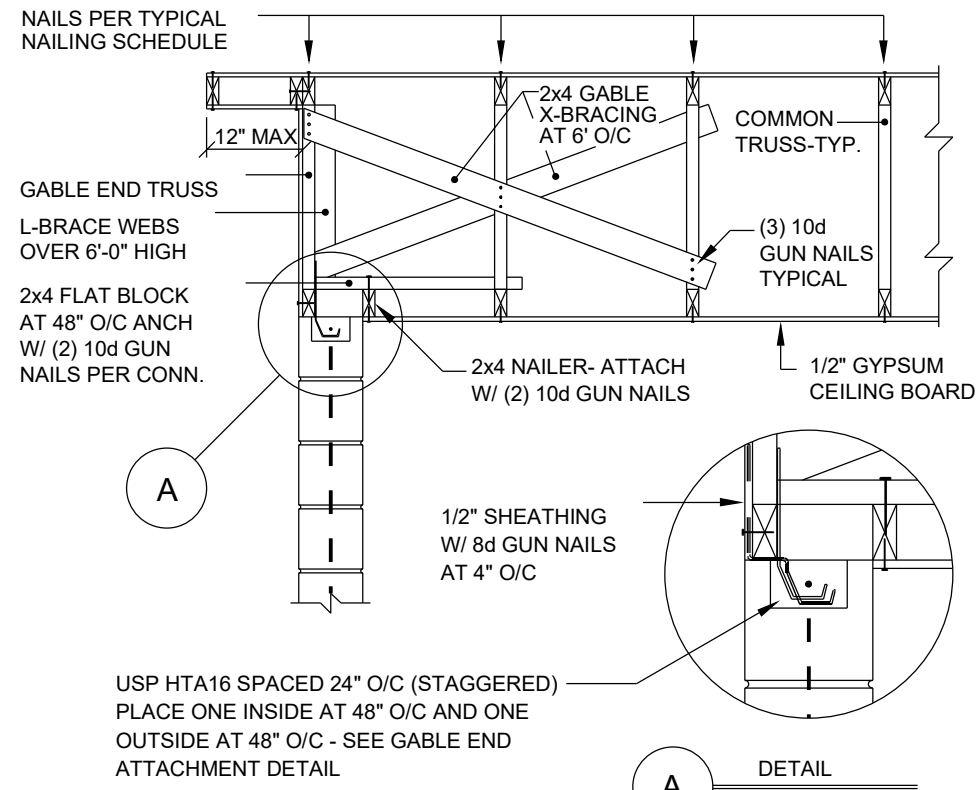


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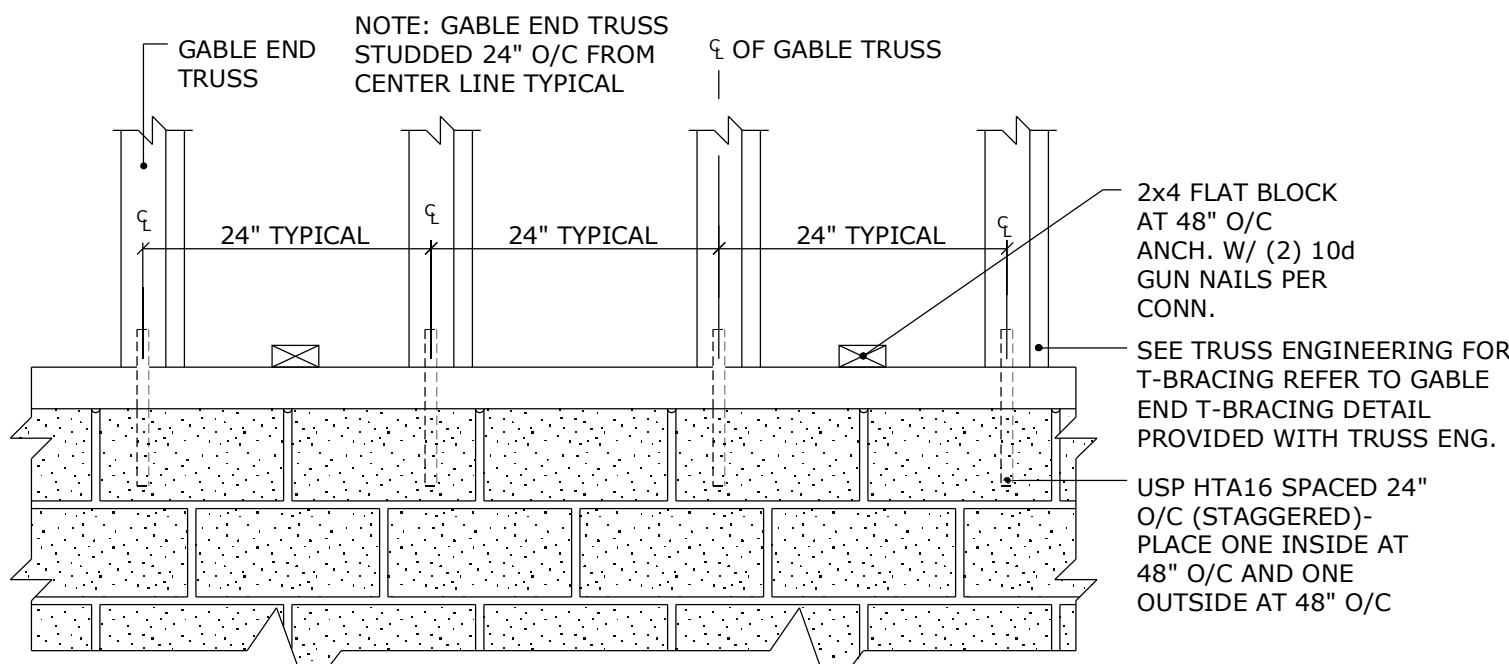
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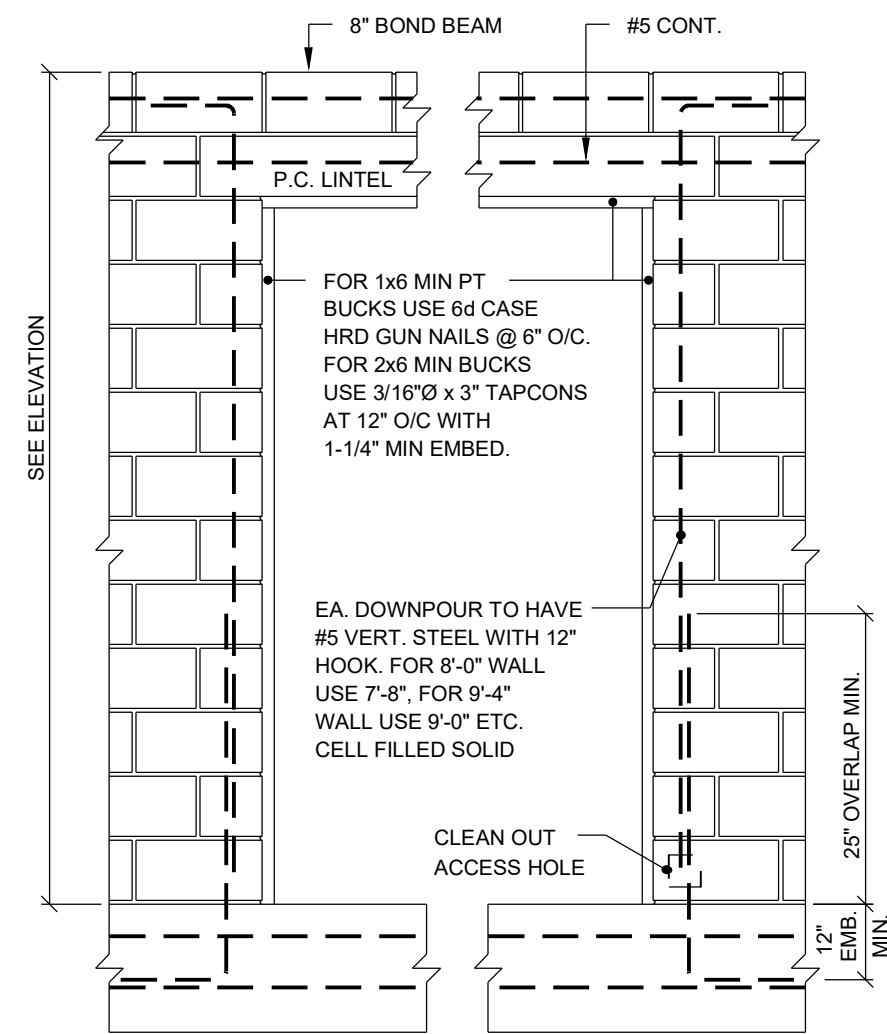
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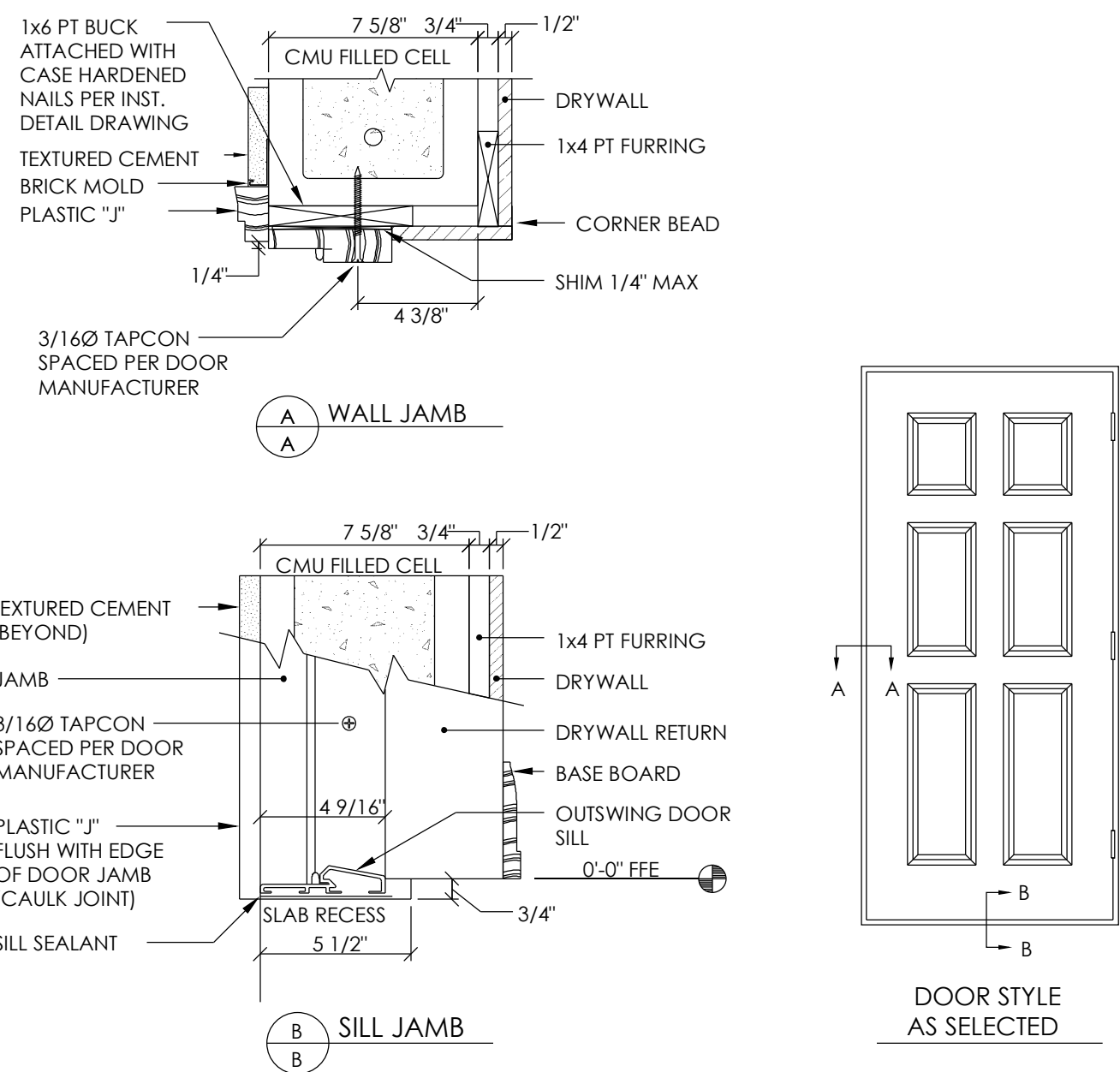
1201
13MAY21
GABLE END DETAIL
SCALE: NTS



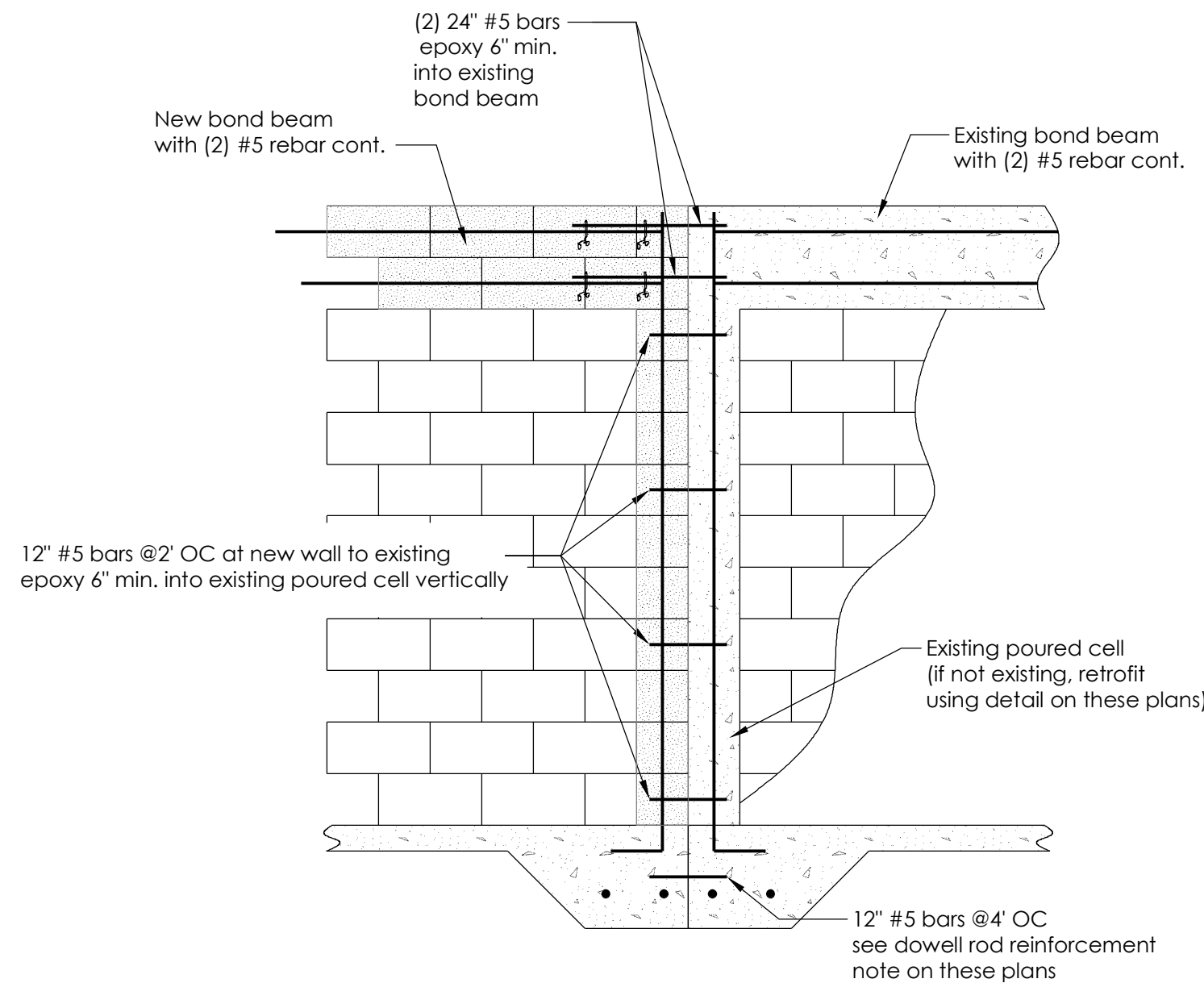
1225
21APR06
GABLE END ATTACHMENT
SCALE: NTS



0902
31MAY06
DOOR/SLIDER BUCK AND REBAR DETAIL
SCALE: NTS



CMU OUTSWING DOOR JAMB DETAILS
(FLUSH WITH EXTERIOR WALL)
0922
22AUG10
SCALE: NTS



New to Existing Block Wall Connection
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Medium Size Addition (LIDAR)

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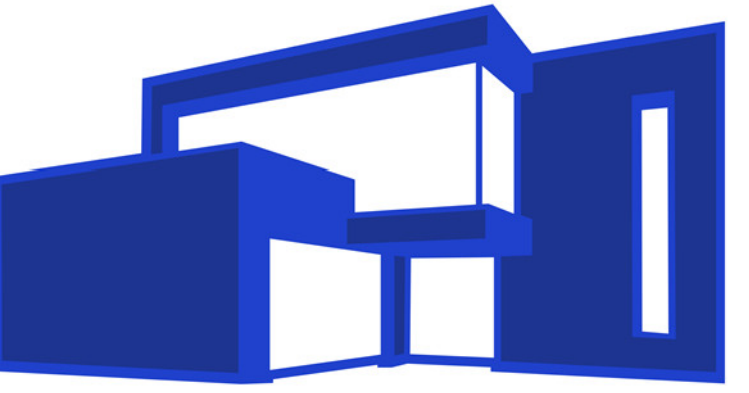
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ADDITIONAL NOTES & DETAILS

Scale



NTS

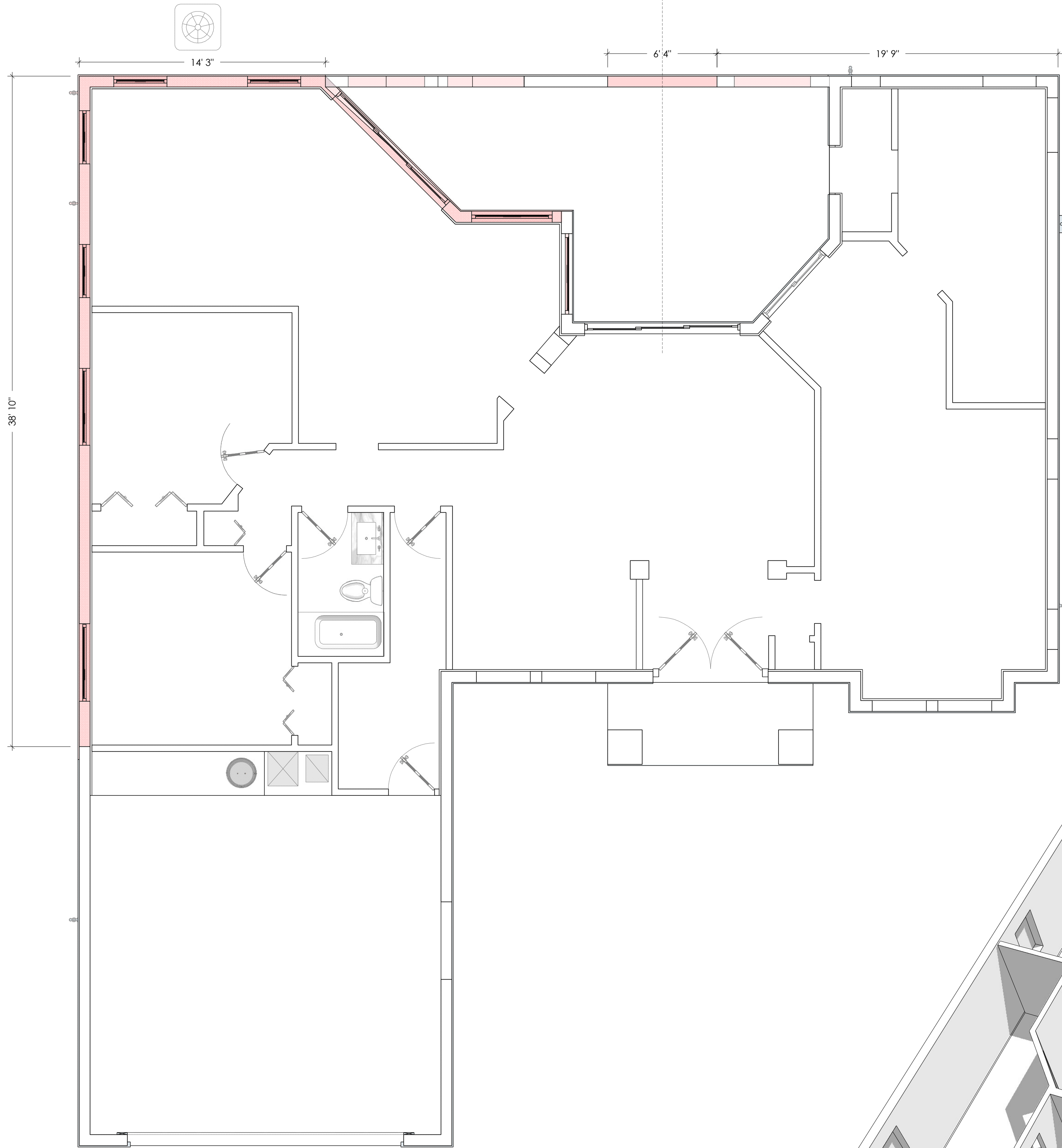


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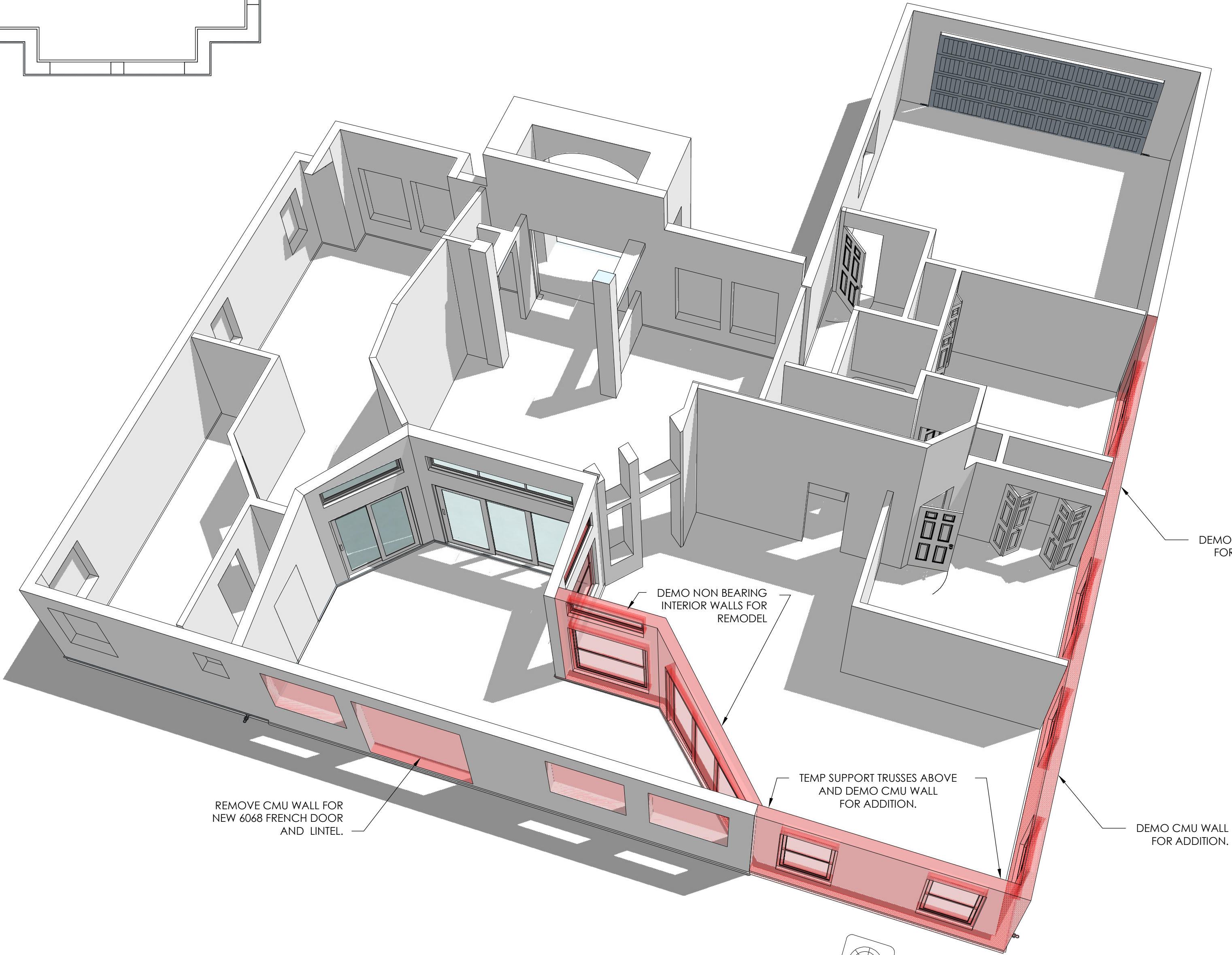
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- Demolition Notes:**
1. Demolish all walls shown based on legend.
 2. See floor plan for dimensions of proposed openings.
 3. Stability of the structure during demolition and construction is the contractors responsibility.
 4. Removal of waste and destruction debris is the contractors responsibility.
 5. Any unexpected conditions shall be reported to the engineer.
 6. Shoring and temporary bracing shall be per engineers requirements and industry standards.
 7. Safety of persons and pets in the surrounding area shall be the contractors responsibility.
 6. Existing utilities not to be disturbed or damaged.



1/4" = 1'



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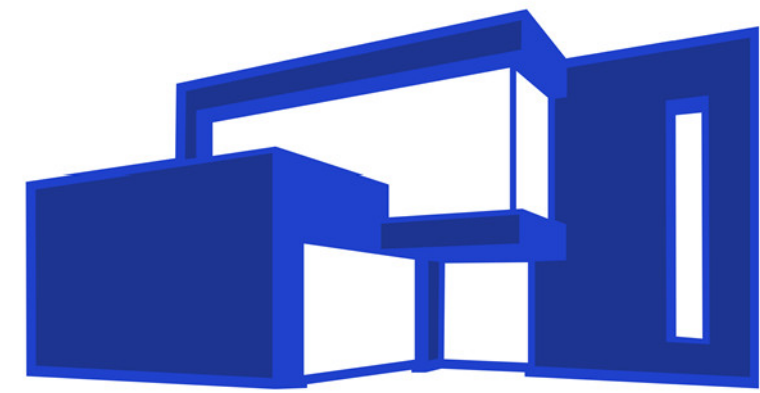
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DEMO PLAN

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STRUCTURAL ONLY

Medium Size Addition (LIDAR)

REVISIONS	Date
Description	

→ When it's all done ←
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Jim & Mary Homeowner
123 Brand Ave NE
Anytown, FL 32907

Project No.
0000000

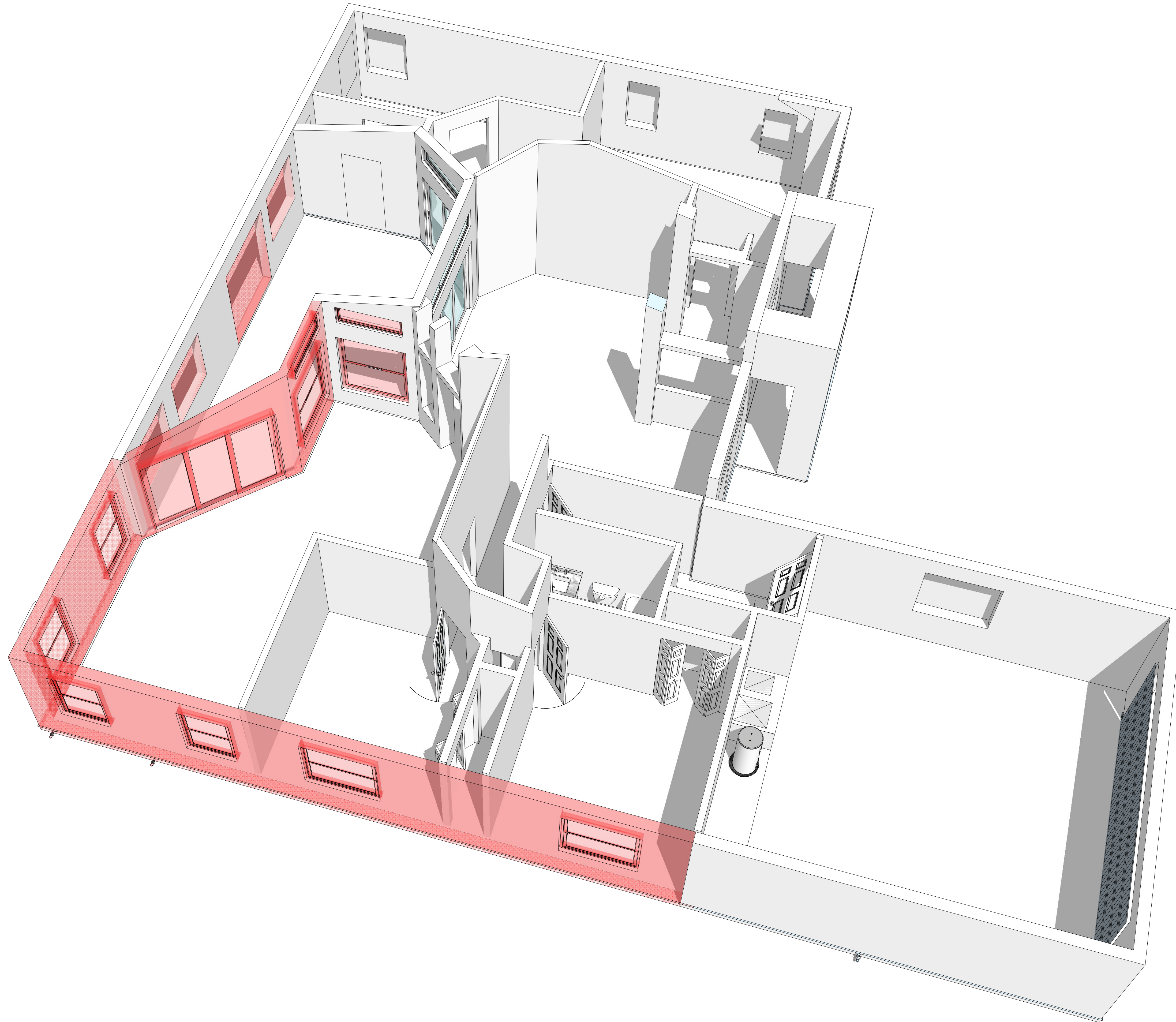
FIELD CONDITIONS, PRODUCTS, AND ASSEMBLIES MAY VARY FROM WHAT IS DEPICTED
IN THESE PLANS. DESIGN INTENT IS PARAMOUNT. PLAN DIMENSIONS ARE MORE
ACCURATE THAN SCALING. ALWAYS BUDGET ALWAYS CONSIDER CREATIVITY.

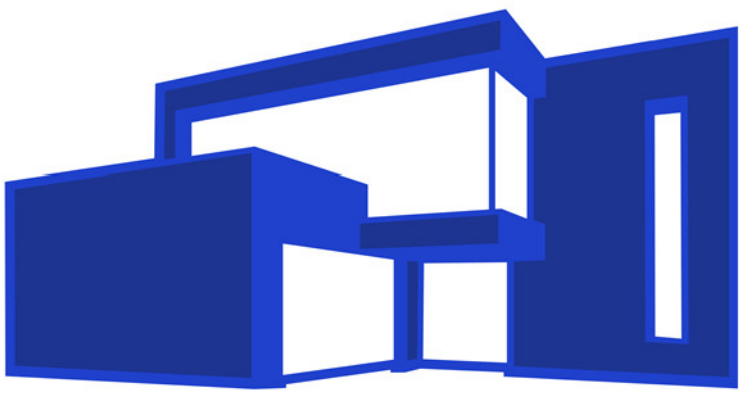
DEMO PLAN II

Scale ◆ NTS

PAGE NO.

06





ARMISTEAD DESIGN INC

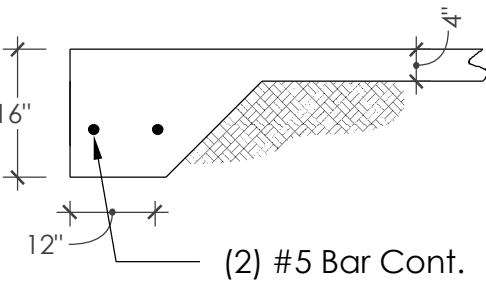
625 Pen Drive
Meritt Island, Florida 32952
Phone: (321) 454-6499
www.ArmisteadDesign.com

Project
DESIGNER
Scott Armistead

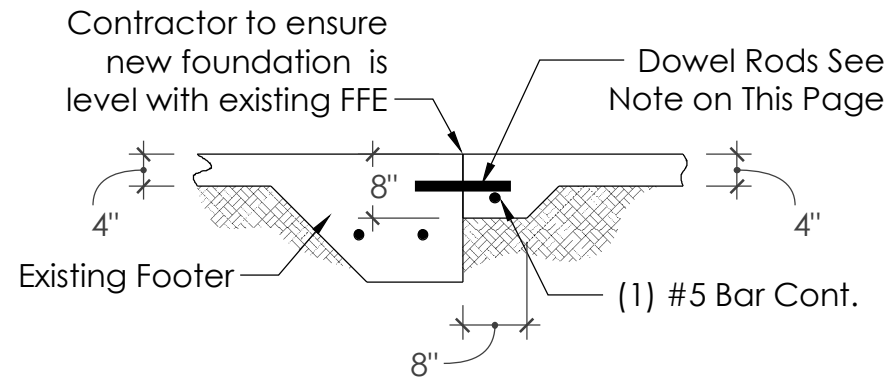
Medium Size Addition (LiDAR)

STRUCTURAL ONLY

Footer Notes:
All footers will be placed over 6 mil moisture barrier on well compacted, termite treated soil. All concrete used for slab and footers must be $f_c=2500\text{psi}$ @ 28 days. All footings must extend 12" below grade and a minimum of 4" above grade.



1 NEW FOOTER
SCALE: NTS



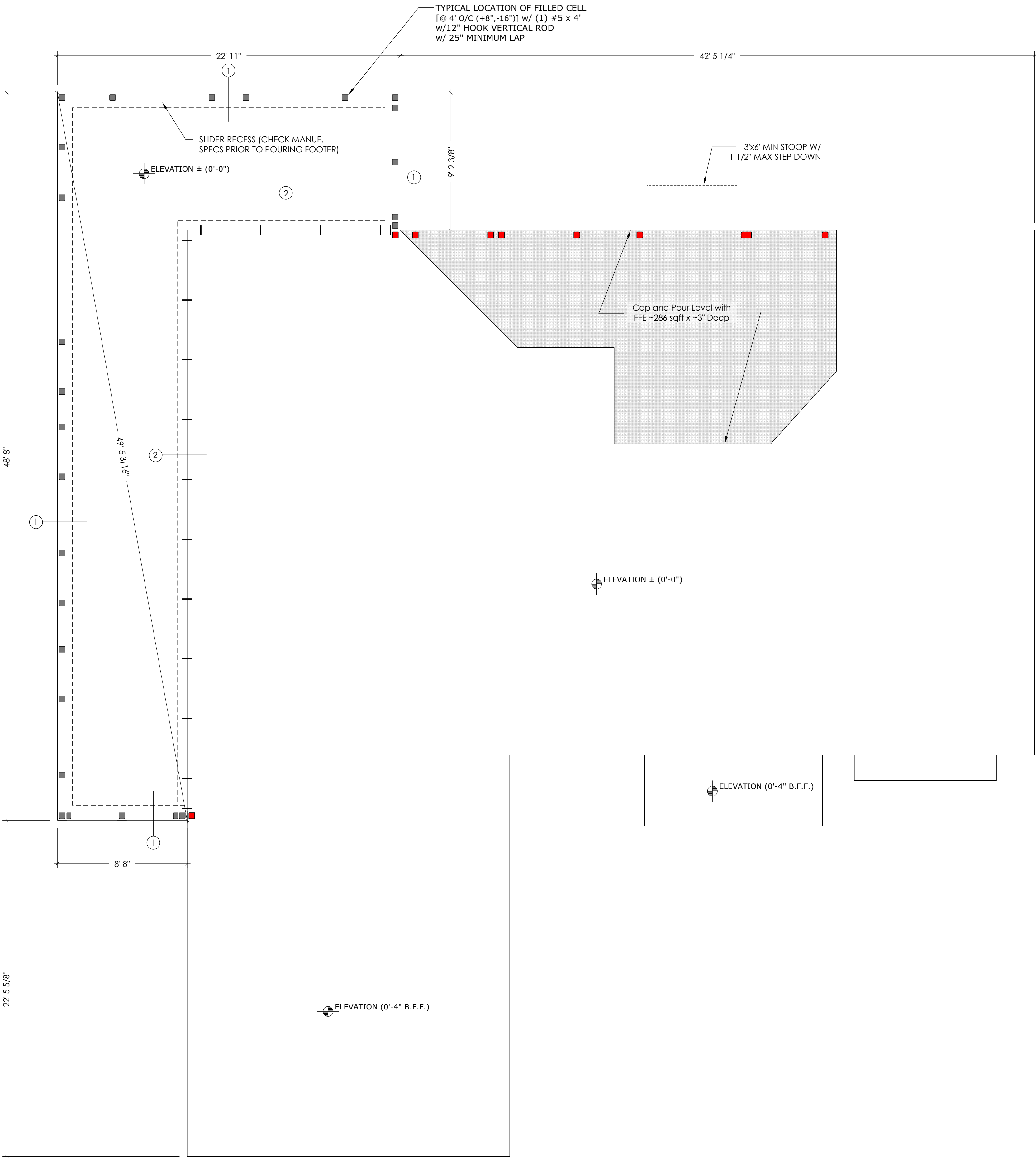
2 NEW TO EXISTING FOOTER
SCALE: NTS

DOWEL ROD REINFORCEMENT:

- * TO ANCHOR NEW MASONRY WALL AND/OR SLAB CONSTRUCTION TO EXISTING, DRILL 4" (MIN) AT 24" O/C (MAX) INTO CMU AND/OR CONCRETE (NO CLOSER THAN 1-1/2" FROM EDGES), REMOVE (JUST PER MFGRS SPECS & USE 2-PART EPOXY TO ANCHOR #3x8" DOWELS IN PLACE (OPTION TO USE #5 DOWELS @ 48" O/C).
- * FOR NEW MONO FOOTING TO EXISTING USE (2) #5x30" DOWELS FOR CONTINUOUS STEEL TIE OFF.
- * FOR NEW BOND BEAM USE #5x30" DOWELS FOR EACH LINTEL COURSE AS APPLICABLE.
- * ADD FILLED CELL TO EXISTING BLOCK WALL AT CONNECTION TO NEW CMU CONSTRUCTION WHERE ONE IS NOT ALREADY PRESENT.

SOILS.DWG **SOIL NOTES:** **12OCT21**

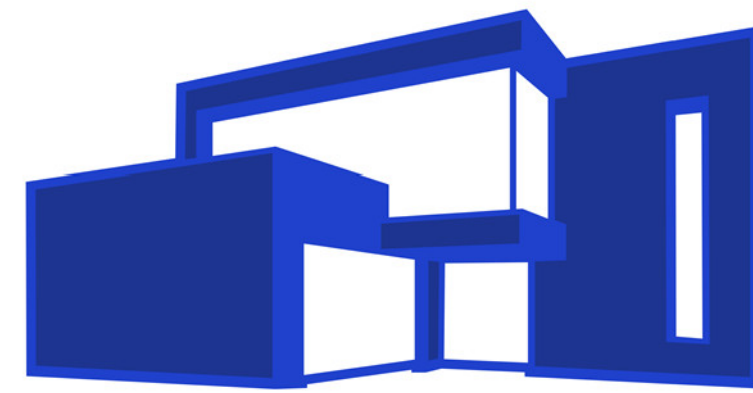
SOIL CONDITIONS
ENGINEER HAS NOT BEEN ON SITE NOR HAS RECEIVED ANY SOIL INFORMATION OR REPORTS YET. REPORT SHALL BE PROVIDED TO EOR ASAP. IT IS ASSUMED THE SOIL CONDITIONS ARE CONSIDERED NORMAL AND NO PROBLEMATIC SOILS (INCLUDING BUT NOT LIMITED TO MUCK) ARE PRESENT. OWNER IS RESPONSIBLE FOR ANY KNOWN OR UNKNOWN SOIL CONDITIONS AND ANY SOIL BORINGS DEEMED NECESSARY. NOTIFY ENGINEER IMMEDIATELY OF ANY UNUSUAL SITE SUB-SURFACE CONDITION WHICH VARIES FROM TEST BORINGS, SUCH AS DIFFERENT SOILS ENCOUNTERED, SEEPAGE OR PRESENCE OF WATER, OR WHEN THERE IS A CONCERN REGARDING BEARING CAPACITY OR IF IT HAS NOT BEEN ATTAINED. DEWATER EXCAVATIONS BEFORE PLACING CONCRETE. REMOVE & DISPOSE OF ALL ORGANIC & UNSATISFACTORY SOIL. BACKFILL SHALL BE FREE DRAINING AND RESTRICTED TO GW, GP, SW, OR SP PER ASTM D2487. COMPACT ALL BACKFILL MATERIAL TO 95% OF MAX DENSITY PER ASTM D698. CONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION & FINAL CLEARANCE OF TEMPORARY BRACING. A CERTIFIED TESTING LAB SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED COMPACTION REQUIREMENTS WERE OBTAINED.



FOUNDATION PLAN

Scale 1/4"=1'

PAGE NO



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Project
DESIGNER
Scott Armistead

Medium Size Addition (LIDAR)

REVISIONS
Description

Date

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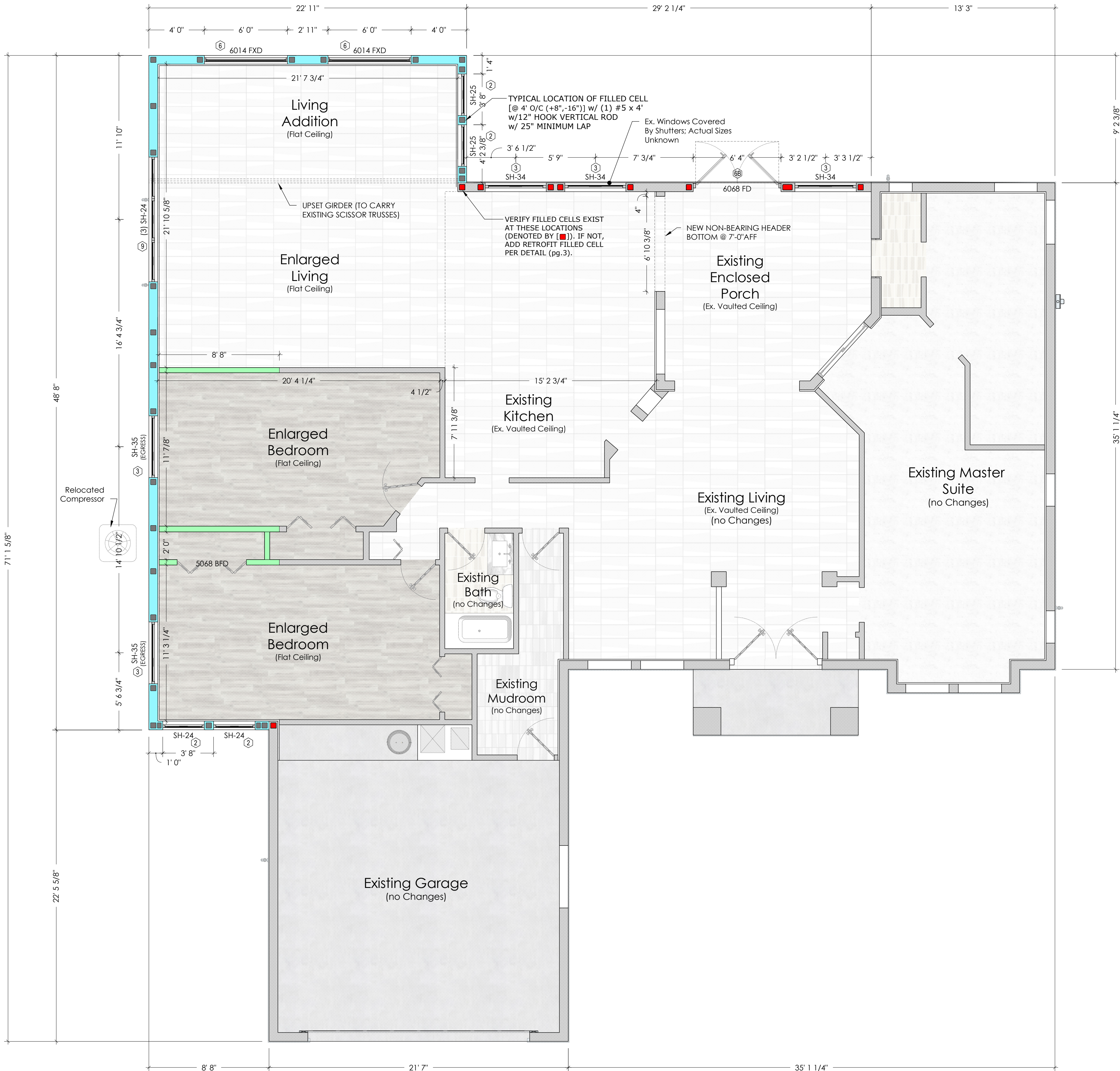
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FLOOR PLAN

Scale 1/4" = 1'

PAGE NO

08



GENINTEL.DWG		PRECAST LINTEL SCHEDULE						29FEB10
APPLIED LOADS ON ALL PRECAST LINTELS HAVE BEEN REVIEWED TO INSURE THEY ARE WITHIN ALLOWABLE LIMITS. ALL UNITS ARE IN PLF.								
	LENGTH	SAFE GRAVITY	APPLIED GRAVITY	SAFE UPLIFT	APPLIED UPLIFT	COMPOSITE BEAM	REMARKS	
①	2'-10"	6113	<2000	4460	<1500	8F16-1B/1T	1x WINDOW	
②	4'-6"	6113	<2000	2724	<1500	8F16-1B/1T	2x WINDOW	
2A	4'-6"	2189	<2000	1207	<1000	8F8-1B/1T	BEAM/MISC 3'-0" OPENING	
③	5'-10"	4360	<2000	2093	<1500	8F16-1B/1T	3x WINDOW	
3A	5'-10" RECESS	1113	<750	655	<500	8RF6-1B/1T	30xx DR & SIDE LITE	
3B	5'-10"	1451	<1000	909	<750	8F8-1B/1T	BEAM/MISC 4'-0" OPENING	
3C	5'-10" RECESS	4242	<2000	1900	<1500	8RF14-1B/1T	30xx DR & SIDE LITE	
④	3'-6"	6113	<2000	3547	<1500	8F16-1B/1T	1/2 3x WIN	
⑤	6'-6"	3480	<2000	1880	<1500	8F16-1B/1T	5' SGD OR MISC	
⑥	7'-6"	2661	<2000	1438"	<1000	8F16-1B/1T	6' SGD OR (2)2x WIN	
6A	7'-6"	1011	<750	560"	<500	8F8-1B/1T	(2)30xx DR	
6B	7'-6" RECESS	2459	<2000	1345"	<1000	8RF14-1B/1T	(2)30xx DR	
6C	7'-6" RECESS	755	<500	506	<350	8RF6-1B/1T	(2)30xx DR	
⑦	4'-6"	5206	<2000	2525	<1500	8RF14-1B/1T	30xx DOOR	
7A	4'-6" RECESS	1756	<1000	867	<500	8RF6-1B/1T	30xx DOOR	
⑧	9'-4"	1843	<1000	963"	<750	8F16-1B/1T	8' SGD OR MISC	
⑨	10'-6"	1533	<1000	777"	<500	8F16-1B/1T	9' SGD OR (2) 3x WIN	
⑩	10'-6"	2781	<2000	1239"	<1000	8F24-1B/1T	9' SGD OR (2) 3x WIN	
⑪	4'-4" RECESS	5206	<2000	2635	<1000	8RF14-1B/1T	28xx DOOR	
12	13'-4"	1075	<750	521"	<350	8F16-1B/1T	12' SGD OR MISC	
14	14'-0"	1002	<750	481"	<350	8F16-1B/1T	BEAM/MISC 12'-0" OPENING	
15	15'-4"	1250	<1000	422"	<350	8F16-1B/1T	BEAM/MISC	
16	17'-4"	950	<900	356"	<300	8F16-1B/1T	16' OHGD OR MISC	
17	17'-4"	950	<900	500	<400	8F16-1B/2T	16' OHGD OR MISC	
18	17'-4"	1326	<1000	732	<700	8F20-1B/2T	16' OHGD OR MISC	
*REDUCED FOR GRADE 40 REBAR. **PLF APPLIED EQUIV LOAD DERIVED FROM CONCENTRATED								
LOAD(S) USING METHOD OF EQUIVALENT BENDING MOMENTS. Ω=DUE TO HIGH CONCENTRATED LOADS.								
ANALYZED MOMENT, SHEAR & VERIFIED WITH PUBLISHED ALLOWABLES.								
NOTES: R=RECESS ALL GABLES AND JACKS<250plf USE CAST-CRETE (OR EQUAL OR BETTER) 8F16-1B/1T IF POSSIBLE								
			QUANTITY OF #5 REBAR @ BOTTOM OF LINTEL CAVITY NOMINAL HEIGHT F= FILLED W/GROUT: U=UNFILLED NOMINAL WIDTH QUANTITY OF #5 REBAR @ TOP OF LINTEL CAVITY					

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

Wall Legend	
	- New CMU Wall/Column
	- New Frame Wall
	- Existing Wall
	- Down Pours
	- Confirm Exist. Downpours

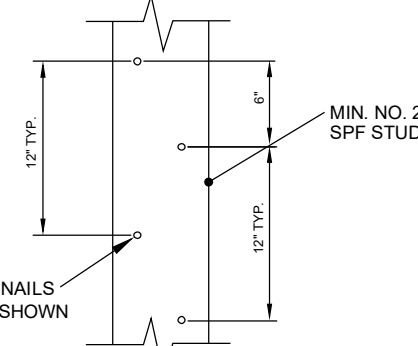
12NOTES.dwg02DEC21

HANGER TO MASONRY / CONCRETE CONNECTION NOTE:

TO ANCHOR HANGER TO MASONRY/CONCRETE: USE 1/4"Øx1 1/4" TAPCONS 2" APART & FROM TOP.

FRAMER NOTE:

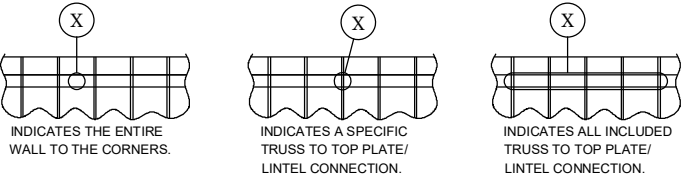
FOR GIRDERS BEARING ON FRAMED WALLS, MINIMUM STUDS (SPF GR2) UNDER BEARING SHALL BE GIRDER PLYS PLUS 1 UNO. SHIFT STUDS AS REQUIRED TO ACCOMMODATE CONN.



FLOOR TRUSS NOTE:

FLOOR TRUSSES WITH NO UPLIFT SHALL BE TOE-NAILED TO BEARING FOR STABILIZATION. NO OTHER UPLIFT CONNECTIONS ARE REQUIRED UNLESS NOTED OTHERWISE ON LAYOUT.

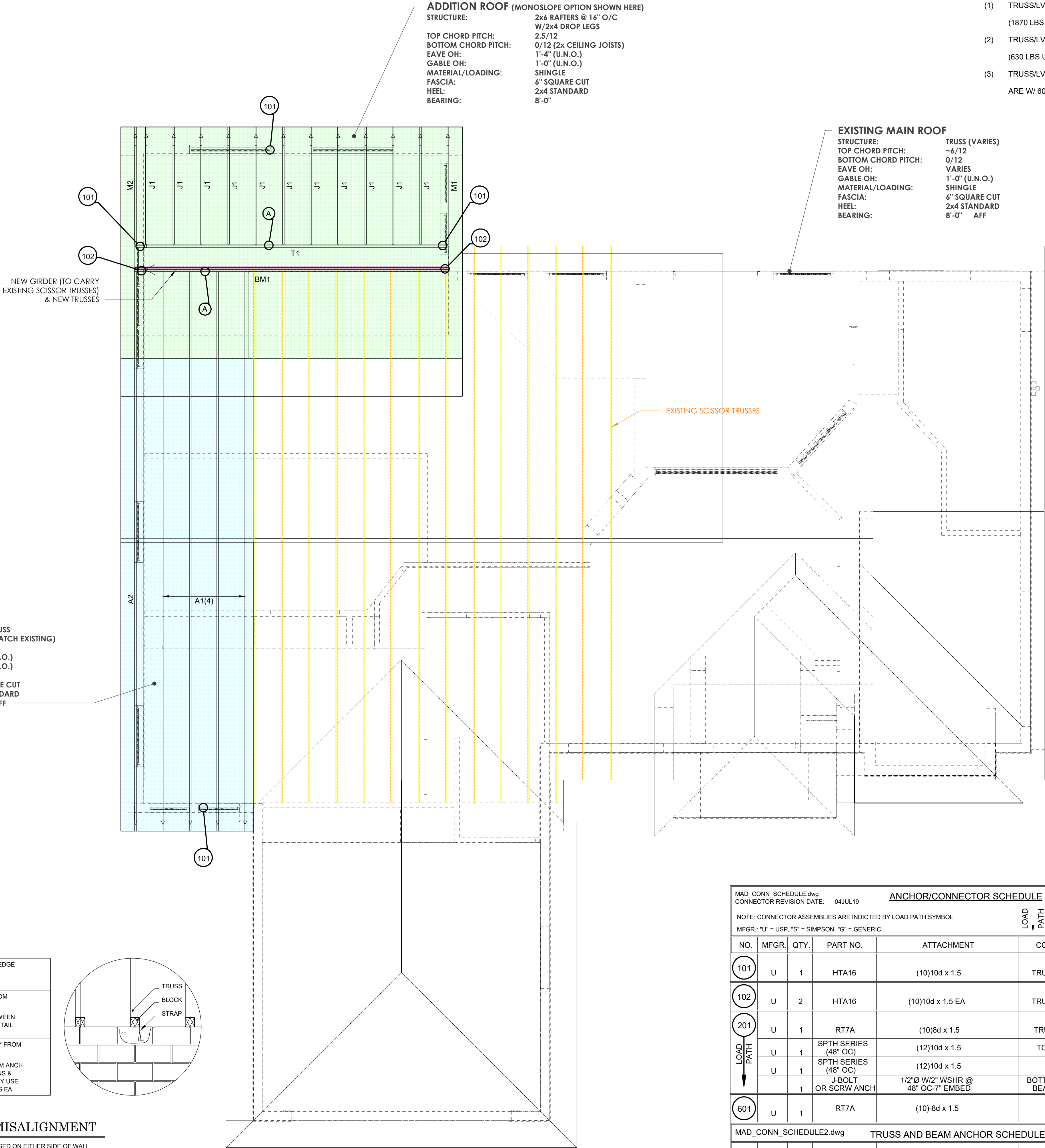
TRUSS CONNECTOR LEGEND



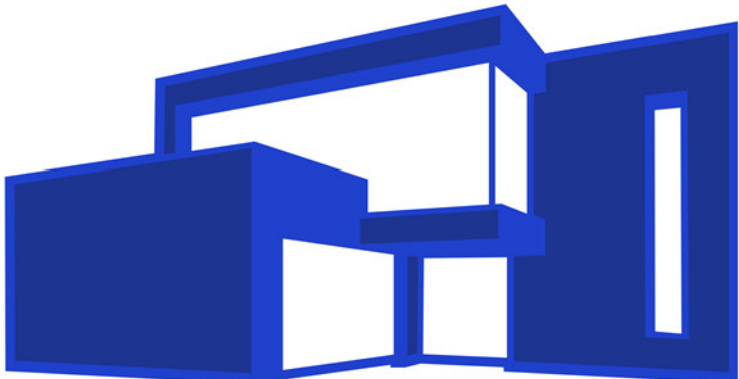
TRUSS LAYOUT & REACTIONS RECEIVED (& NSERTED IN DRAWINGS) FROM:

TIBBETS LUMBER
321-409-9800

STRUCTURE TO BE DESIGNED AT WIND SPEED & PRESSURES SHOWN IN THESE PLANS (MINIMUM). IT IS ACCEPTABLE TO ENGINEER OF RECORD TO HAVE ROOF SYSTEM & CONNECTORS DESIGNED AT HIGHER LIVE & DEAD LOADS, WIND SPEED, AND/OR WITH MORE CONSERVATIVE PRESSURE COEFFICIENTS.



- NOTE: UNLESS NOTED OTHERWISE ON THESE DRAWINGS,
- TRUSS/LVL TO CMU/CONCRETE CONNECTIONS ARE W/ 101 (1870 LBS UPLIFT CAPACITY).
 - TRUSS/LVL TO WOOD FRAME WALL CONNECTIONS ARE W/ 201 (630 LBS UPLIFT CAPACITY).
 - TRUSS/LVL TO WOOD BEAMS/LEDGERS/TRUSSES CONNECTIONS ARE W/ 601 (630 LBS UPLIFT CAPACITY).



ARMISTEAD DESIGN INC

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Project Designer
Scott Armistead

STRUCTURAL ONLY

REVISIONS	Date
Description	

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When it's all done

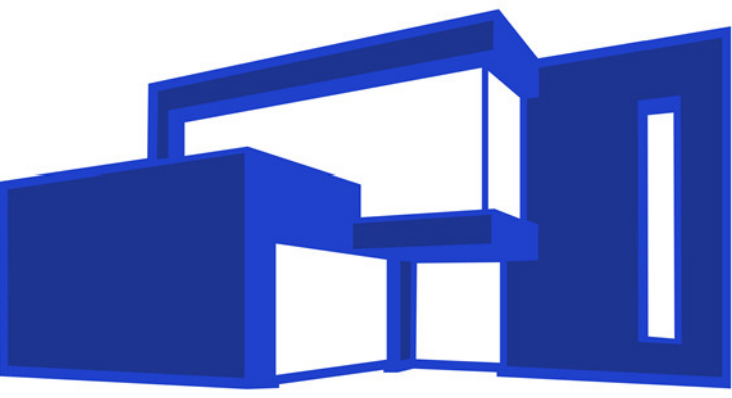
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TRUSS & CONNECTOR SCHEDULE

Scale 1/4" = 1'



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Medium Size Addition (LIDAR)

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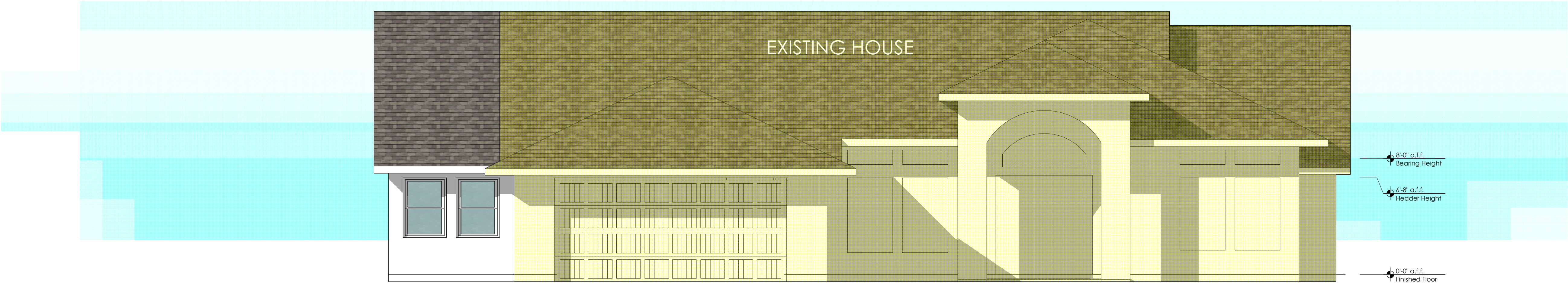
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ELEVATION VIEWS
FRONT & RIGHT

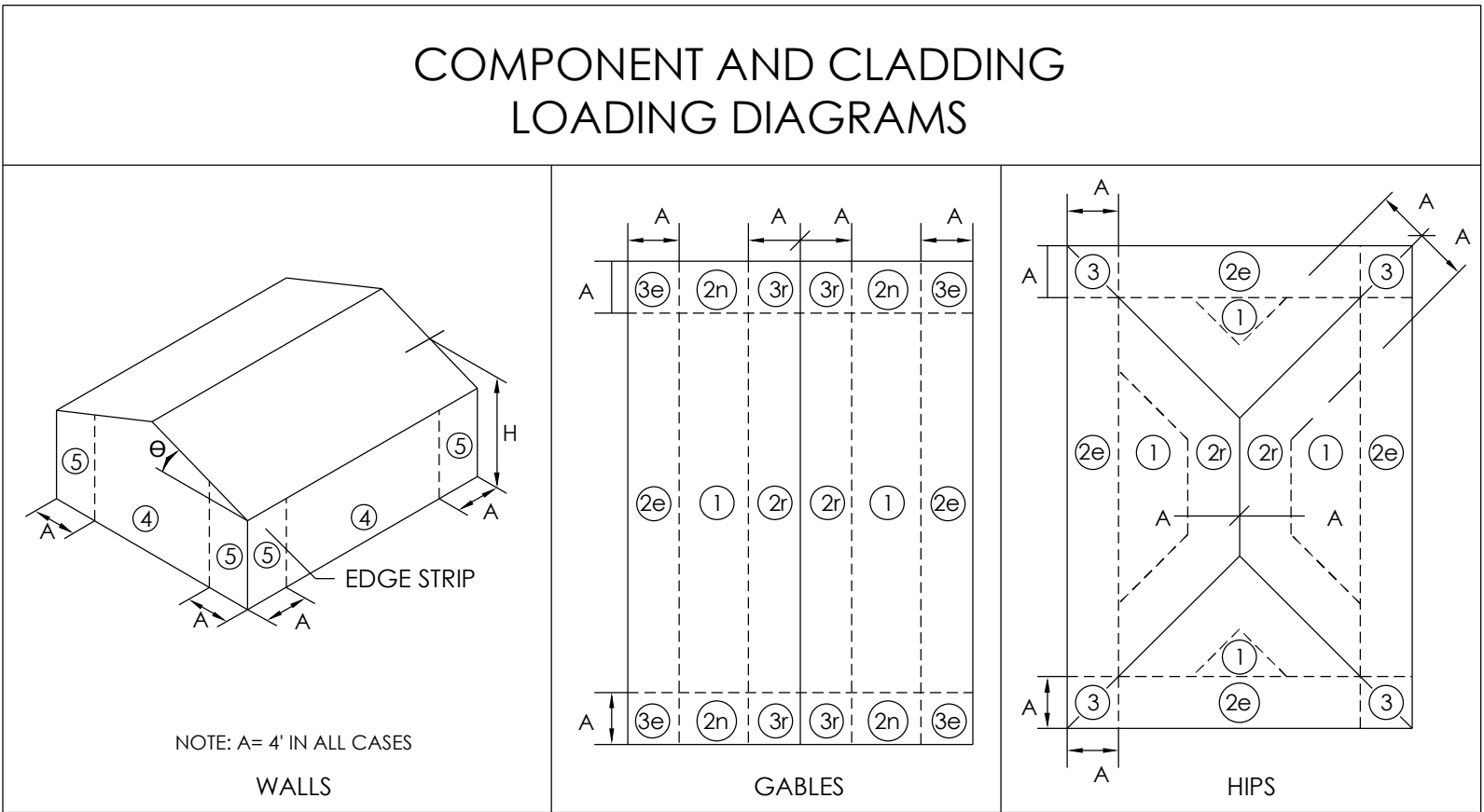
Scale 1/4" = 1'

PAGE NO

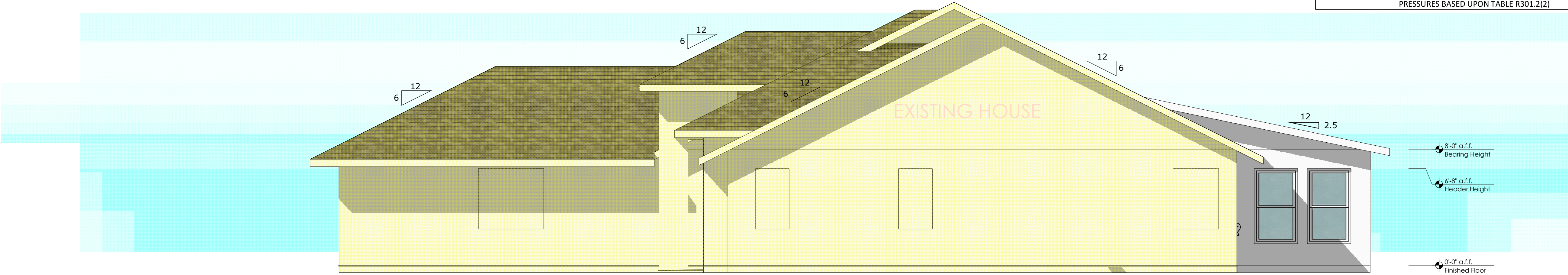
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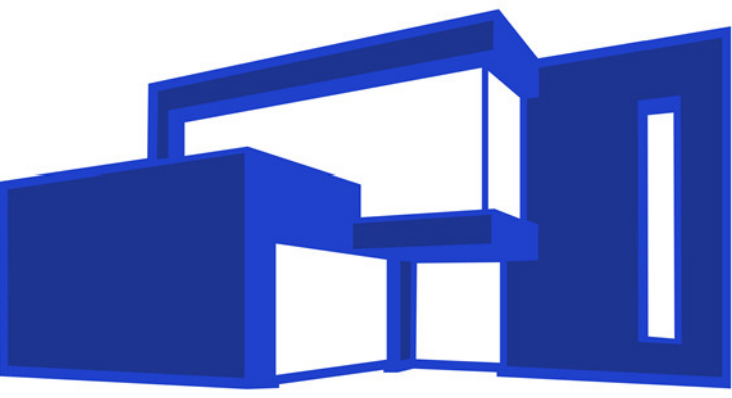
Front Elevation



COMPONENTS & CLADDING PRESSURES TABLE				
ALLOWABLE STRESS DESIGN - 160 MPH ULTIMATE				
EXP. B, GABLE ROOF ANGLE: 20°<θ<27° (4.4-6:12)				
MEAN ROOF HT H ≤ 30' INTERNAL PRESS COEFF: ±0.18				
ZONE	LOCATION	WIND AREA (ft2)	PRESSURE (psf)	
1, 2e	ROOF	SF ≤ 10	20.6	-39.3
	INTERIOR & EDGE	SF ≥ 20	17.8	-39.3
		SF ≥ 50	14.0	-33.5
		SF ≥ 100	11.2	-28.8
2n, 2r 3e	ROOF	SF ≤ 10	20.6	-62.8
	EDGE CORNER	SF ≥ 20	17.8	-55.0
		SF ≥ 50	14.0	-44.7
		SF ≥ 100	11.2	-37.0
3r	ROOF CORNER	SF ≤ 10	20.6	-74.5
		SF ≥ 20	17.8	-62.8
		SF ≥ 50	14.0	-46.4
		SF ≥ 100	11.2	-46.4
4	WALL	SF ≤ 10	27.7	-30.0
		SF ≥ 20	26.4	-28.7
		SF ≥ 50	24.7	-27.1
		SF ≥ 100	23.5	-25.9
		SF ≥ 500	20.6	-22.9
5	WALL CORNER	SF ≤ 10	27.7	-37.0
		SF ≥ 20	26.4	-34.5
		SF ≥ 50	24.7	-31.2
		SF ≥ 100	23.5	-28.7
		SF ≥ 500	20.6	-22.9
PRESSURES BASED UPON TABLE R301.2(2)				



Right Elevation

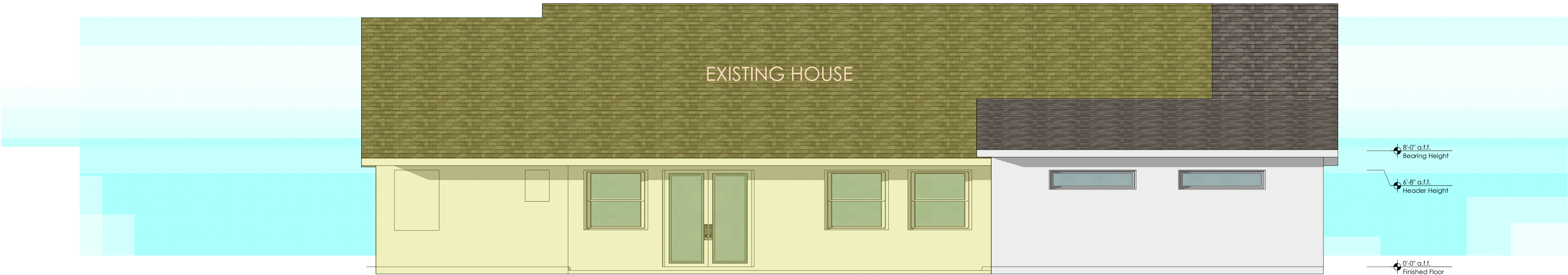


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DESIGNER
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Rear Elevation

REVISIONS

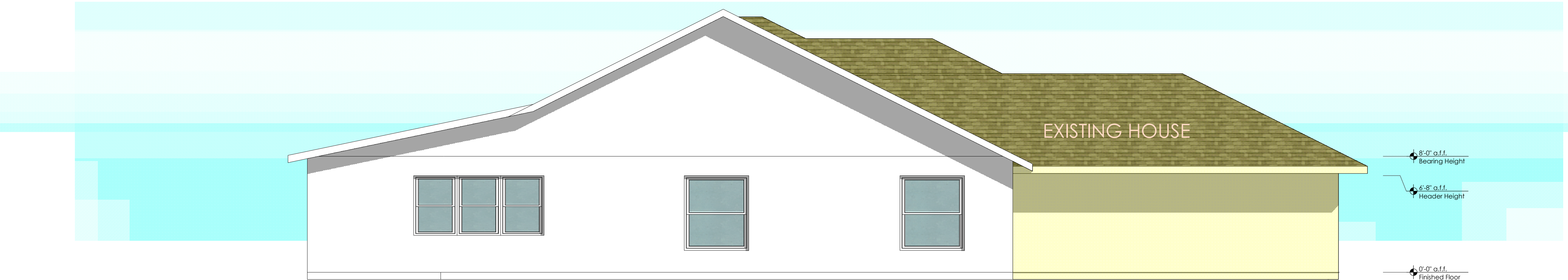
Description Date

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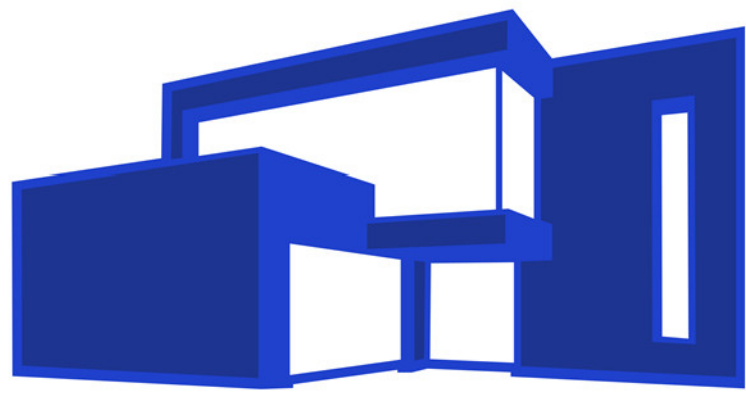


Left Elevation

Medium Size Addition (LiDAR)

ELEVATION VIEWS
REAR & LEFT

Scale ◆ 1/4" = 1'



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DESIGNER
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Medium Size Addition (LIDAR)

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. (F.S. 471.003 (2)(b)1&2)
(THIS DRAWING SHEET IS NOT SIGNED AND SEALED)

REVISIONS

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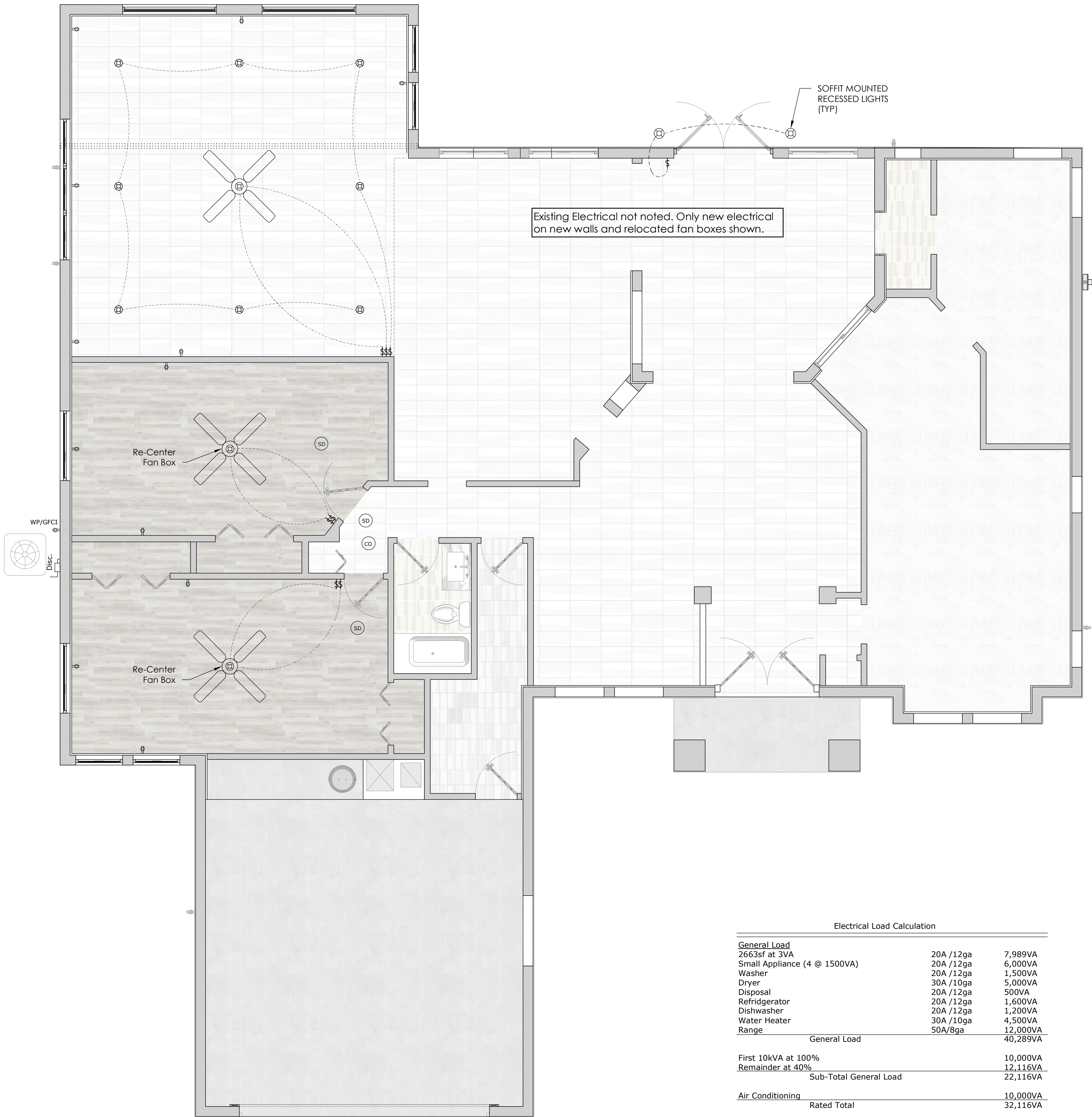
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ELECTRICAL PLAN

Scale 1/4" = 1'

PAGE NO

12



Electrical Legend

- Switch
- 110V Receptacle (See Notes 8 & 9)
- WP/GFI Water Proof Ground Fault Rec.
- Smoke Alarm (Interconnected)
- Carbon Monoxide Alarm
- Light Fixture
- Recessed Fixture
- Disconnect
- Main Panel
- Power Riser
- Flood Lights
- Ceiling Fan

Electrical General Notes

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

Electrical Load Calculation

General Load		
2663sf at 3VA	20A /12ga	7,989VA
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	30A /10ga	4,500VA
Range	50A/8ga	12,000VA
General Load		40,289VA
First 10kVA at 100%		10,000VA
Remainder at 40%		12,116VA
Sub-Total General Load		22,116VA
Air Conditioning		10,000VA
Rated Total		32,116VA
Calculated Load	Rated Total/240V=	185A