

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA

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REVISION

DATE: 2022.08.04 15:53:08 -05'00'

DRAWN:

128

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
COVER SHEET

Celebrating
48 Years of Service
1972 - 2020
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.,
Lake City, FL 32055
386-365-4355

DATE:

21 SEP 2021

CONTRACT:

2K2104

SHEET:

CS.1

1 OF 1

Digitally signed by: N. P. GEISLER
DN: CN = N. P. GEISLER C = US O = AR0007005 OU = ARCHITECT
Date: 2022.08.04 15:53:08 -05'00'

N. P. GEISLER

AR0007005

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ALL MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHALL MEET THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE.
2. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
3. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVED TREATED.
4. INTERIOR BEARING WALLS SHALL BE CONSTRUCTED IN COMPLIANCE WITH UL Design 1333. BATT INSULATION SHALL BE INSTALLED IN THE UNOCCUPIED AREA BEING SEPARATED FROM HEATED / COOLED AREA.
5. INTERIOR STUD WALLS SEPARATING LIVING AREA FROM GARAGE AREAS SHALL BE CONSTRUCTED IN COMPLIANCE WITH UL Design 1033, INCLUDING R-11 BATT INSULATION.
6. CEILING JOIST ATTACHED GARAGE DOOR GARAGES W/ LIVING AREA ABOVE SHALL BE 5/8" FIREPROOF OR GARAGES ON 1X6 JOIST SHALL BE 1" FIREPROOF. CEILING SHALL BE 1/2" BATT INSULATION.
7. ALL "O.C. ATTACHED EACH POINT OF BEARING.

AS - BUILT DRAWING REQUIREMENTS:

- A. ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS FOR ALL ELECTRICAL WORK INCLUDING ANY CHANGES TO THE ELECTRICAL WORK. THE CONTRACTOR SHALL REVISIONS TO THE "AS-BUILT" DRAWINGS BE IDENTIFIED BY "REVISION DIAGRAM", "AS-BUILT" PANEL SCHEDULE, AND ALL CHANGES IDENTIFIED BY "CHG" IN THE DESCRIPTION. BREAK SERVICE ENT. ALL UNDERGROUND USE LOCATION, R/SING, SERVICE, EDP/H, REPAIR, ETC. ALL CHANGES SHALL BE IDENTIFIED BY "CHG" IN THE DESCRIPTION. THE CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWINGS TO OWNER. 1 COPY TO THE PERMIT ISSUING AUTHORITY.
- B. HVAC "AS-BUILT" DRAWINGS
HVAC CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL HVAC WORK INCLUDING ALL DUCTWORK, LOG, SIZES, LINE, EQUIPMENT, SCHED. & BALANCING REPORT. CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWINGS TO OWNER. 1 COPY TO THE PERMIT ISSUING AUTHORITY.
- C. PLUMBING "AS-BUILT" DRAWINGS
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK INCLUDING ALL PIPING, EQUIPMENT, SCHED. & BALANCING REPORT. CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWINGS TO OWNER. 1 COPY TO THE PERMIT ISSUING AUTHORITY.

GENERAL MILLWORK NOTES:

1. MILLWORK SUB-CONTRACTOR PROVIDING CASWORK, MILLWORK OR THE LIE FOR THIS PROJECT SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6 OF THE GENERAL NOTES, THIS SHEET.
2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: FABRICATING AND DELIVERY OF MILLWORK SHOWN IN THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: MILLWORK, CASEWORK, TRIM, DOOR, TRIMMER & RAIL GUIDES, ADJUSTABLE SHELF STANDARDS & SURFACE BOLTS.
3. ALL APPLICABLE STANDARDS OF "MIL QUALITY STANDARDS & GUIDE SPECIFICATIONS" APPLY TO THIS PROJECT, UNLESS NOTED OTHERWISE.
4. ALL CUSTOM GRADE EXCEPT AS OTHERWISE NOTED OR DIRECTED BY THE OWNER SHALL BE THE BASE STANDARD OF QUALITY READ FOR THIS WORK.
5. MILLWORK SUB-CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE OWNER THE FOLLOWING ITEMS, PRIOR TO FABRICATING ANY MATLS. OR MILLWORK, COMPLETE SET OF SHOP DRAWINGS, SAMPLES OF MD, SPECIES RECEIVING, FABRICATING FINISH, METLS LITERATURE FOR ALL SPECIALTY ITEMS NOT YET BY THE ARCHITECTURAL WOODWORK FIRM, AND HARDWARE SCHEDULE SHOWING HARDWARE USED AT EA LOCATION & CONFORMANCE W/ THE DESIGN INTENT OF THE DRAWINGS OR PRESCRIPTIVE ISSUED BY THE OWNER.
6. PRODUCTS SHALL INCLUDE THE FOLLOWING:
HARDWOOD - SOLID STOCK FINE C OR BETTER
PLYWOOD - SPECIES AS SELECTED BY OWNER
FLYWOOD, OPAQUE FINISH - FIR GRADE A/B
PLYWOOD, TRANSPARENT FINISH - SPECIES AS SELECTED BY OWNER
PARTICLE BOARD - HIGH DENSITY, W/ RESIN BINDER
LMT PLASTIC - 1/2" G. COLORED PATTERNS & TRIMBERS AS SELECTED BY OWNER
LAMINATE ADHESIVES - POLYVINYL ACETATE, UREA-FORMALDEHYDE, CASEIN
7. ASSEMBLE & WORK AT MILL & DELIVER TO JOB SITE READY TO INSTALL IN-OF OR AS POSSIBLE.
8. PROJECT MILLWORK FROM MOISTURE & DAMAGE WHILE IN TRANSIT TO THE JOB SITE UNLOAD AND STORE IN A PLACE WHERE IT WILL BE PROTECTED FROM MOISTURE AND DAMAGE AND BE CONVENIENT FOR INSTALLATION.
9. FABRICATE WORK IN ACCORDANCE WITH MEASUREMENTS TAKEN AT THE JOB SITE.
10. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS, LEAVE OPERATING HARDWARE OPERATING SMOOTHLY & QUIETLY.
11. DAMAGED SURFACES SHALL BE REPAIRED TO MATCH UNDAMAGED ADJACENT PORTION OF THE WORK.

GENERAL H.V.A.C. NOTES:

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUB-JECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES/D.I.A.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS TOOLS AND EQUIPMENT TO INSTALL A COMPLETE 4 OPERATING HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS, (IF INCLUDED), OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK CONDENSING UNIT 4 AIR HANDLER EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED CORRUGATED ALUMINUM 3/4 IN. DENSITY FIBERGLASS INSULATION AND SHALL BE UL-181A 1/2 IN. RATED W/ 1 1/4 IN. POLYFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE POLYFACED, R42/600 DUCTBOARD, ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL UNCORRODED AND INSTALLED IN ACCORDANCE WITH ASHRAE 62 AND S.D.A.C.A. STANDARDS.
7. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS, ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALABEER NALORHART HART 4 COOLIE OR AS DIRECTED BY THE OWNER.
8. IF REQUIRED BY THE OWNER THE HVAC SUB-CONTRACTOR SHALL FURNISH A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGN AND SEALED BY A REGISTERED ENGINEER.
9. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS RELAYS AND THERMOSTATS, THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL WIRING FOR THE HVAC SUB-CONTRACTORS. THEIRS ATS SHALL BE APPROVED BY THE EQUIPMENT MFG.
10. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
11. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR YEAR AND THE CONTRACTORS SHALL BE UNWARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.
12. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.
13. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMALEX INSULATION.
14. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHAKE WEIGHT AIRRESISTANCE OF 10% AND A CLEAN PRESURE DROP OF 0.15, PROVIDE 2 SETS ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
15. HVAC SUB-CONTRACTOR SHALL PROVIDE 4 INSTALL ALL NECESSARY OFFSETS, TRANSITIONS, BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
16. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO CO-ORDINATE LOCATION OF CEILING DIFFUSERS GRILLES AND REGISTERS IN RELATIONSHIP WITH THE ELECTRICAL, LIGHTS AND ARCHITECTURAL ELEMENTS.
17. COORDINATE W/ THE ELECTRICIAN, PARTICULARLY ELECTRICAL NOTE N. 23, TO ASSURE SUITABLE SIZES OF BREAKERS SWITCHES AND WIRING.

GENERAL PLUMBING NOTES:

1. SUB-CONTRACTORS PROVIDING PLUMBING MATERIALS AND INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6.
2. ALL PLUMBING AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
3. ALL MATERIALS SHALL BE NEW.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.
5. ALL EXCAVATION & BACKFILL AS REQUIRED FOR THIS PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR'S RESPONSIBILITY.
6. PLUMBING FLAT PLAN AND RISER DIAGRAMS (IF INCLUDED) ARE DIAGRAMMATIC, DO NOT SCALE THE DRAWINGS FOR EXACT LOCATION OF THE PLUMBING FIXTURES.
7. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF THE CONSTRUCTION.
8. WATER PIPING SHALL BE TYPE L COPPER UP TO 1" & TYPE K FOR ALL ABOVE GROUND PIPING. PIPING SHALL BE TYPE 304/316 STAINLESS STEEL FOR ALL BELOW GROUND PIPING. PIPING MAY BE CPVC, SCHEDULE 40 OR SCHEDULE 80.
9. DO NOT USE LEAD BASED SOLDER FOR JOINING APPLY PIPING.
10. 30"-12" WASTE VENT & RAINWATER PIPING SHALL BE CAST IRON NO STEEL. 30"-12" ABOVE GRADE WITH NEOPRENE GASKETS & STAINLESS STEEL BANNOS & BELL & SPIRIT CAST IRON BELOW GRADE. W/ 1" OAKUM JOINTS OR AT THE QUOTER OPTION, P.V.C. SCHEDULE 40, SEE NOTE 12.
11. ALL AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE THREADED STEEL PIPE. COPPER DRAIN W/TE OR VENT PIPING AND FITTINGS OR P.V.C. SEE NOTE 12. BELOW INSULATE ALL CONDENSATE PIPING EXCEPT WHERE UNDERFLOOR, AND ELECTRIC HEAT TRAP WHERE EXPOSED TO FREEZING CONDITIONS.
12. P.V.C. SCHEDULE 40 PIPE AND FITTINGS MAY BE USED FOR SOIL, WASTE VENT, RAINWATER OR CONDENSATE PIPING AS APPROPRIATE, WHEN APPROVED BY LOCAL BUILDING CODES & OFFICIAL. P.V.C. MAY NOT BE USED TO PENETRATE CHASIS OR FIRE RATED WALLS / CEILING'S.
13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND WHERE PROVIDED, MARKED ACCESS PANELS.
14. FINISH AND INSTALL APPROVED AIR CHARGERS AT EACH PLUMBING FIXTURE AND APPROVED SHOCK ARRESTORS ON MAIN LINE OR RISERS.
15. DIELECTRIC COUPLERS ARE REQUIRED BETWEEN ALL DISJUNCTARIALS IN PIPING AND EQUIPMENT CONNECTIONS.
16. ISOLATE COPPER PIPING FROM HANGERS OR SUPPORTS W/ HAIR FELT INSULATOR PADS.
17. PROVIDE 1/2" TRAP PIPING LINE FOR ALL FLOOR DRAINS FROM NEAREST PLUMBING FIXTURE, DO NOT MAINFOLD.
18. PROVIDE ACCESS PANELS FOR ALL CLEANOUT VALVES.
19. PROVIDE CLEANOUT COFFER DTE / CLEANOUT PLUG FOR ALL WALL CLEANOUTS, FINISH AS DIRECTED BY THE OWNER.
20. FINISHES, HARDWARE, EQUIPMENT, COLORS AND FINISHES SHALL BE AS SELECTED BY THE OWNER.

GENERAL WELL & SEPTIC NOTES:

1. SUB-CONTRACTORS PROVIDING WATER UTILITY AND/OR SEPTIC TANKS AND DRAINFIELD SHALL BE SUBJECT TO THE PROVISIONS OF CHAPTER 14.00 OF THIS SHEET.
2. LOCATION OF FORTHABLY WATER UTILITY SHALL BE DETERMINED BY THE OWNER IN CONSULTATION WITH THE WELL DRILLING CONTRACTOR. UTILITY SHALL NOT BE LOCATED CLOSER THAN 15'-0" TO ANY PROPOSED OR EXISTING SEPTIC TANK OR DRAINFIELD, EITHER ON SUBJECT PROPERTY OR ADJACENT/ADJOINING PROPERTY.
3. PORTABLE WATER UTILITY SHALL BE A MINIMUM 4" WITH BLACK IRON COATING TO A DEPTH OF 60'-0". PIPING SHALL BE OF THE SUBMERGED TYPE. THREE LINE SYSTEM MINIMUM HOSE/PIPE SHALL BE 1/2" IN OR LARGER. WATER SHALL BE SUPPLIED TO THE WELL HEAD FROM THE WELL HEAD IN A WEATHERPROOF HOUSING MOUNTED ON A 4" X 4" POST AT THE WELL HEAD.
4. WELL HEAD SHALL PROJECT 12" ABOVE GRADE.
5. ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATING SYSTEM SHALL BE PROVIDED INCLUDING ANTI-FREEZE BUBBLER PIPING, CHECKVALVE, AIR BELIEBERS, SHUTOFF VALVE, HOSE BIBB, PRESSURE REGULATOR/CONTRACTOR UNION AND PRESSURE GAUGE.
6. PRESURIZED TANK SHALL BE GALVANIZED 22 GALLON CAPACITY, UNLESS DIRECTED OTHERWISE BY THE OWNER.
7. SEPTIC TANK LOCATION & DRAINFIELD INVERT SHALL BE DETERMINED BY THE LOCAL HEALTH DEPARTMENT. IN CONSULTATION WITH THE OWNER SEPTIC TANKS SHALL BE OF A SIZE & CONFIGURATION AS DETERMINED BY THE LOCAL HEALTH DEPARTMENT. TANK MATERIAL SHALL BE FOUNDED CONCRETE OR FIBERGLASS AS ALLOWED BY THE SEPTIC TANK PERMIT.
8. SEPTIC DRAINFIELD BEDS SHALL BE CONSTRUCTED TO THE END AND/OR OF THE LOCAL HEALTH DEPARTMENT DRAINFIELD PIPING SHALL BE CLAY TILE OR PVC OR POLY AS ALLOWED BY THE SEPTIC TANK PERMIT. DRAINFIELD BEDS SHALL BE 3/4" WASHED ROCK INSTALLED THICKNESS SHALL BE AS PER SEPTIC TANK PERMIT.
9. SAND FILTER BEDS, MOUND SYSTEMS, DOING TANKS, CREEK TRAPS, DISTRIBUTION BOXES, GROUND PLATES, SHUT PIPING AND OTHER SUCH RELATED ITEMS, IF REQUIRED OR REQUESTED SHALL BE AS PER THE DESIGN STANDARD OF THE LOCAL HEALTH DEPARTMENT.

ELECTRICAL NOTES: General

1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO AS-BUILT RECORD PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. ELECTRICAL WORK IN CONFORMANCE WITH THE NEC PERMIT EDITION AND ITS ADDENDUMS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.
2. INSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NEC PERMIT EDITION AND ITS ADDENDUMS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.
3. GROUNDING, GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND (R0D6) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-2020.
4. INSTALL ONLY NY COPPER WIRING ON THIS PROJECT. THU, TUL, AND CONDUIT SHALL BE 1/2" MINIMUM. ALL CONDUCTORS 1/2" AND LARGER SHALL BE STRANDED TYPE.
5. PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINING OUT A TAP, ASSURING NO OPEN-DEICE OF NEUTRAL IN REPLACEMENT OF A DEVICE.
6. COLOR CODE MULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL - WHITE, GROUND - GREEN LINE - ALL OTHER COLORS.
7. INSTALL ONLY 1 HIGH POWER FACTOR BALLASTS AT FLUORESCENT FIXTURES.
8. INSTALL GFI BREAKERS OF DEVICES AT ALL BATHROOM RESTROOM KITCHEN GARAGE AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS.
9. INSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" LISTED OR APPROVED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.
10. INSTALL NON-FLUO DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT. THE "N" BEHIND THE CIRCUIT BREAKER SHALL BE CLEARLY MARKED IN RED. HEAVY DUTY CIRCUIT BREAKERS (CIRCUIT BREAKER TYPE - ENCLOSURES SHALL BE AS READ FOR EXPOSURE MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVER-CUT RELAYS IN EACH HOUL LEG.
11. ISOLATE DISSIMILAR CONDUIT AND TUBING (METAL & FROM SOIL, WATER AND GAS PIPING AND OTHER BUILDING MATERIALS) WHERE DANGER BY FRICTION OR ELECTROLYSIS MAY OCCUR EXCEPT WHERE ELECTRICAL GROUND IS PROVIDED.
12. FINISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRED FOR A COMPLETE OPERATING SYSTEM PROVIDING THE FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).
13. OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS FOR WET LOCATIONS, CAST ALLOY WITH DRYERED HAS OUTLET BOXES SHALL BE INSTALLED.
14. HOT CHECK ALL SYSTEMS WITH THE OWNERS REPRESENTATIVE PRIOR TO VERIFY PROPER FUNCTION PRIOR TO CO.
15. COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. CO-ORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION SO THAT COMPLETE HANGING SYSTEMS ARE INSTALLED IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.
16. EMERGENCY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 780C.1P.
17. ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN EA CIRCUIT SHALL BE CLEARLY IDENTIFIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.
18. IF IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION.
19. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY, FINISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HANGING SYSTEMS AS PER MANUFACTURERS RECOMMENDATIONS. CIRCUITS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
20. ALL RACEWAYS BELOW GROUND SHALL BE A MINIMUM 3/4".
21. ALL CIRCUIT BREAKERS, TUD AND THREE POLE SHALL BE COMMON TRIP. NO TWO HANDLES OR HANDLES SHALL BE ACCEPTABLE.
22. ALL PIPES UNLESS NOTED OTHERWISE ON THE DRAWINGS SHALL BE CURRENT LIMITED TYPE (CL) RATED 200/200 AIC.
23. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CONSEQUENCES OF SAID. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK.
24. CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB THROUGHOUT.
25. CHECK EQUIPMENT FOR PROPER VOLTAGE PHASE AND AMPELAGE RATING PRIOR TO CONNECTION TO CIRCUITS.
26. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE, VERIFY NUMBER AND SIZES OF CIRCUITS.
27. WHEN CONDUIT RUNS EXCEED 200 FEET, TULL BOXES SHALL BE INSTALLED SO THAT NO TULL EXCEEDS THIS DISTANCE.
28. ELECTRICAL EQUIPMENT ALL RATING AND FEEDER SIZE SHOWN ON THE PLANS ARE DESIGNED FOR VMAX AVAILABLE FAULT CURRENT AND MAX ALLOWABLE VOLTAGE DROP, RESPECTIVELY.

PROJECT INFORMATION / NOTES:

- UNID DESIGN SPEED: 130 MPH, UNLESS NOTED OTHERWISE
DESIGN VALUES/LOADS & CODES
 SOIL DESIGN STATEMENT:
 FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL, OR STONE. OTHER SOIL CONDITIONS WILL REQUIRE GEOTECHNICAL INVESTIGATION.
 FOUNDATION MODIFICATIONS:
 LIVE LOADS: 1st FLOOR: 40PSF, 2nd FLOOR: 30PSF ROOF: AS DETERMINED BY LOAD FACTORS APPLIED TO THE WIND FORCE GENERATED BY THE DESIGN WIND SPEED.
 BUILDING CODE: 2010 FLORIDA BUILDING CODE, 1st EDITION
 ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - 2010
 LIFE SAFETY: NFPA-901 - LATEST
CONSTRUCTION DOCUMENTS
 THE ARCHITECT IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.
DO NOT SCALE OFF THESE PLANS
 ALL THE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. ANY DIMENSIONAL INFORMATION MUST BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.
CHANGES TO FINAL PLAN SETS
 PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS UNTIL IN CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

CHANGES TO FINAL PLAN SETS

- AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

DO NOT SCALE OFF THESE PLANS

- BUILDING CODE: 2030 FLORIDA BUILDING CODE, 11th EDITION
ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - 2020
LIFE SAFETY: NFPA-101 - LATEST

COMPLETION DOCUMENTS

- BUILDING CODE: 2030 FLORIDA BUILDING CODE, 11th EDITION
ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - 2020
LIFE SAFETY: NFPA-70 - LATEST

DESIGN WIND SPEED.

- FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND GRAVEL OR STONE. OTHER SOIL CONDITIONS 1a: CLAY, HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS SHALL REQUIRE FOUNDATION MODIFICATIONS.
- LIVE LOADS: 1a: FLOOR, 40PSF. 2nd FLOOR, 30PSF. ROOF: AS DETERMINED BY ENGINEER. APPLIED TO THE JOINT FORCE GENERATED BY THE

REQUIRE FOUNDATION M

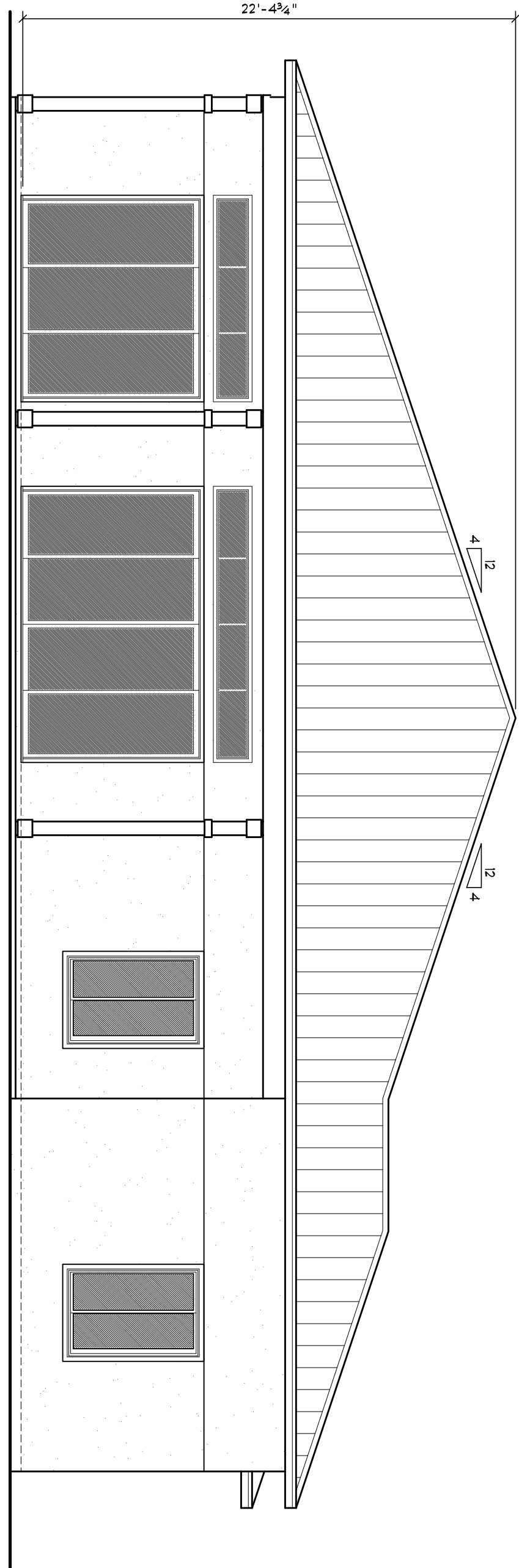
- FOOTING DESIGN IS BASED UPON 100PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL OR STONE. OTHER SOIL CONDITIONS (E.G. HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS) SHALL

VIDED BY CLEAN SAND
ig: CLAY HIGH LEVEL &

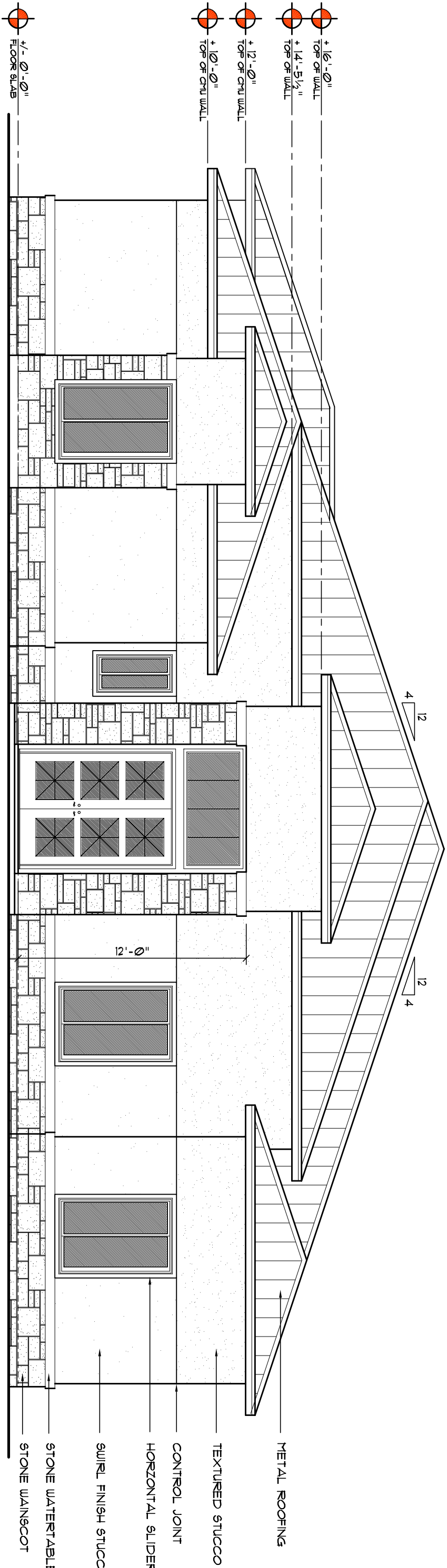
- FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PRO-

DESIGN STATEMENT

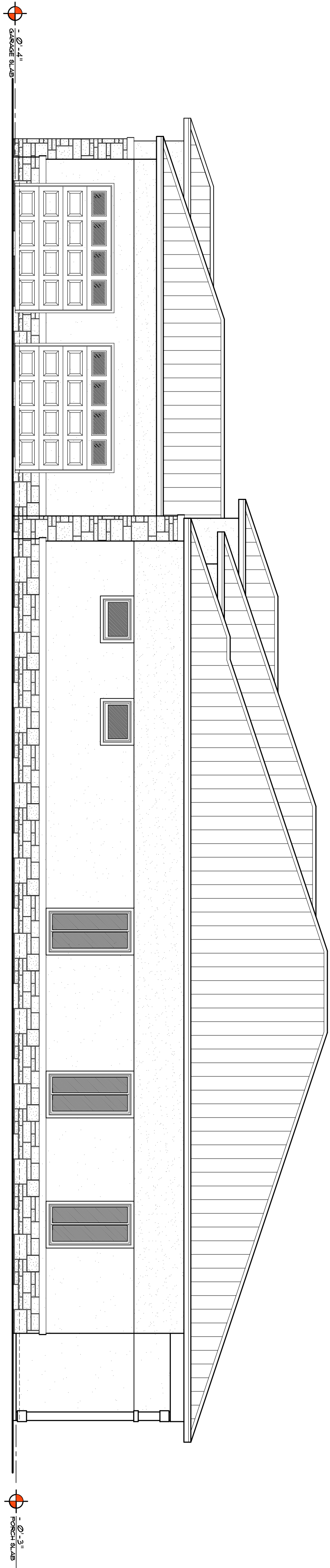
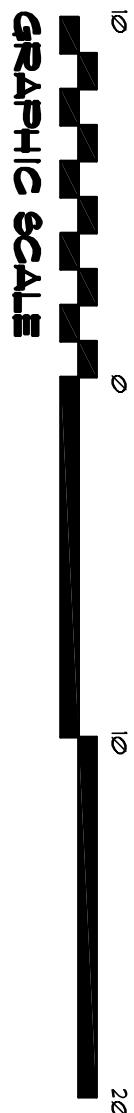
- DESIGN VALUES/LOADS & CODES**
WIND DESIGN SPEED: 130 MPH, UNLESS NOTED OTHERWISE



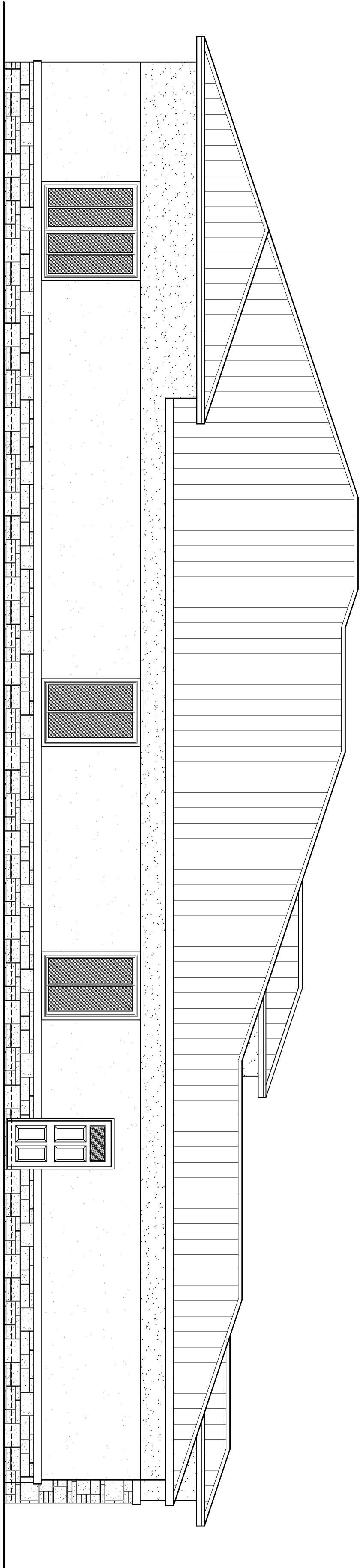
REAR ELEVATION
SCALE: 3/16" = 1'-0"



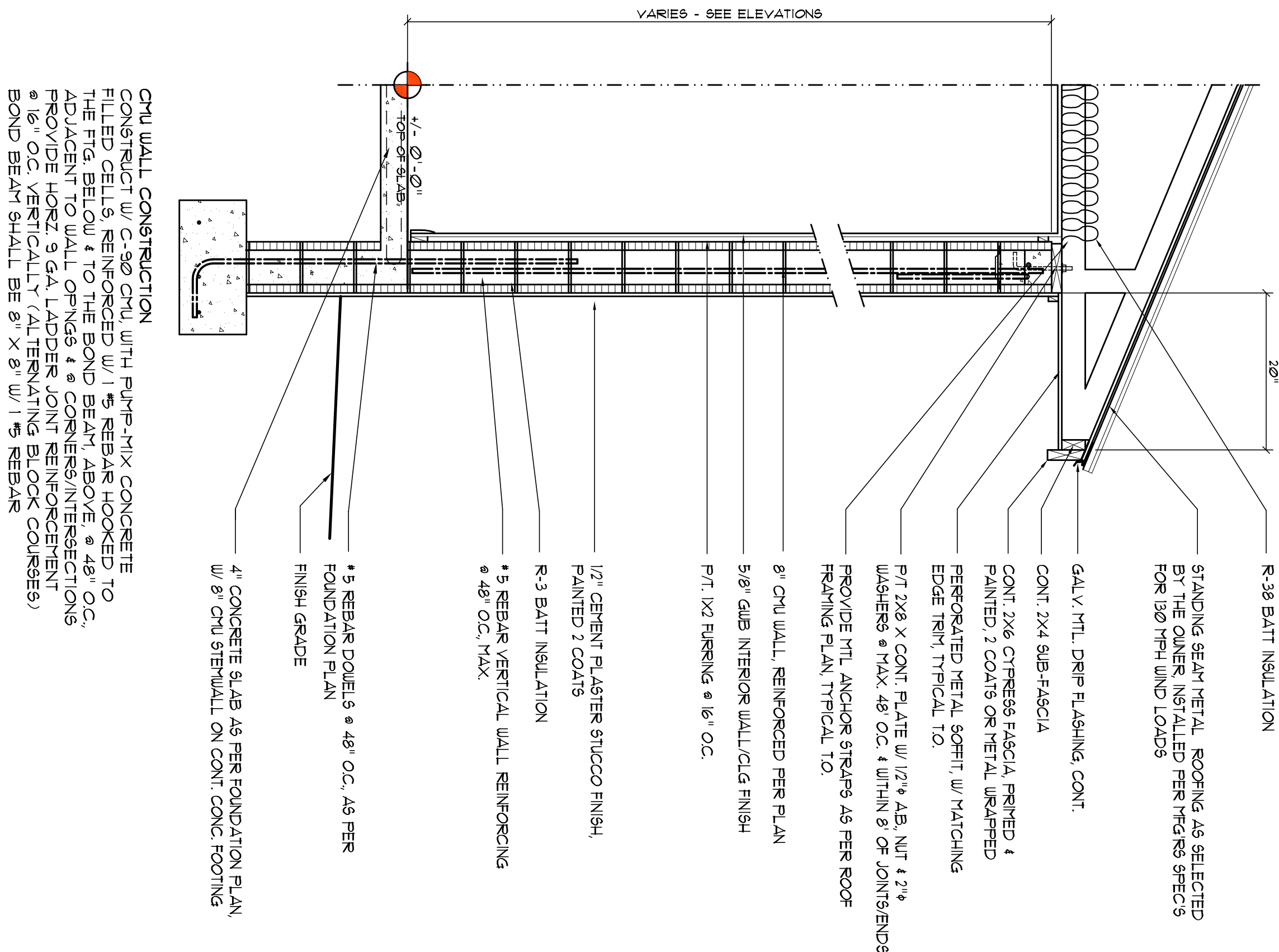
FRONT ELEVATION
SCALE: 3/16" = 1'-0"



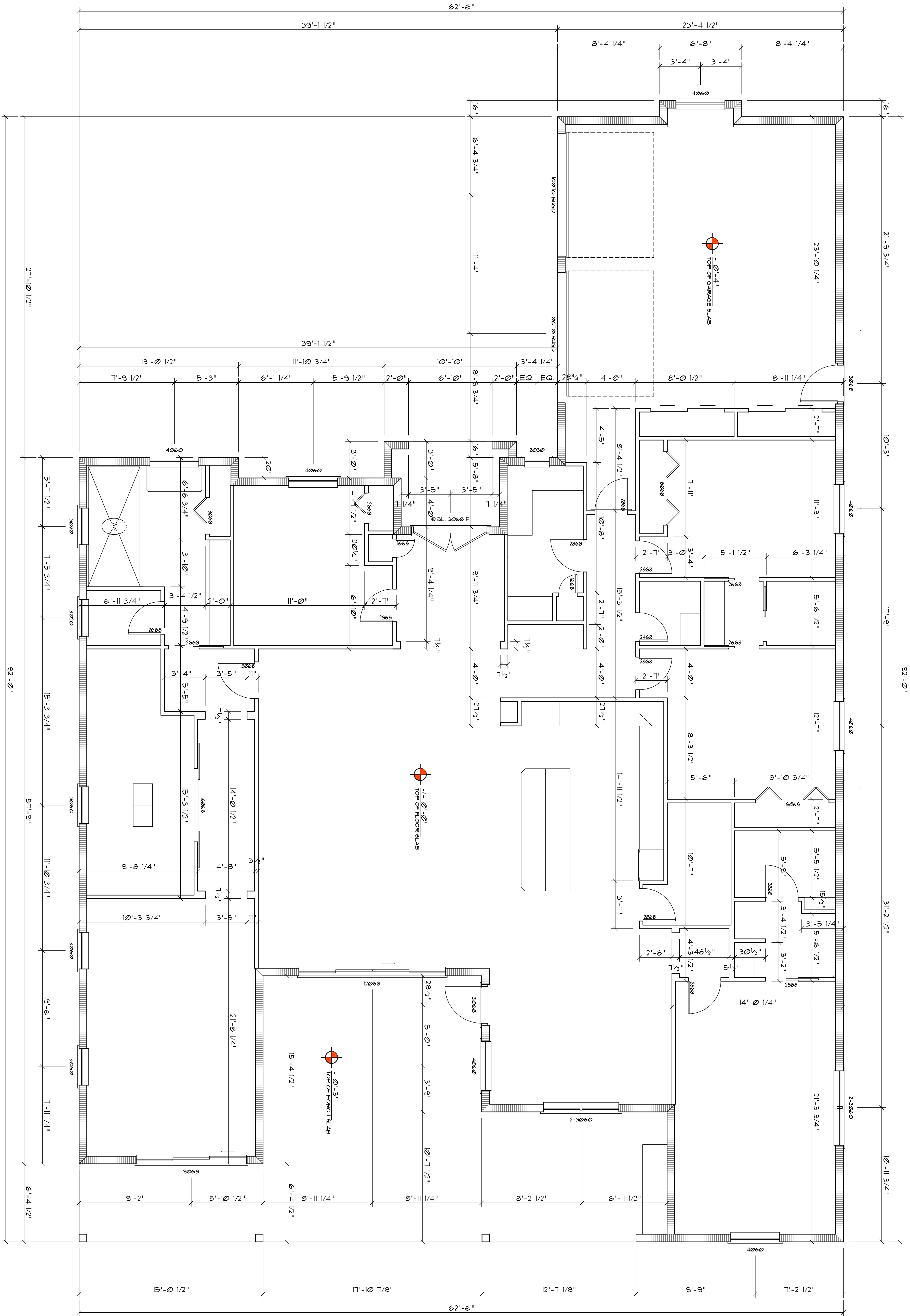
SIDE ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"

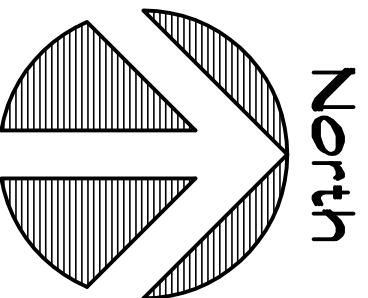
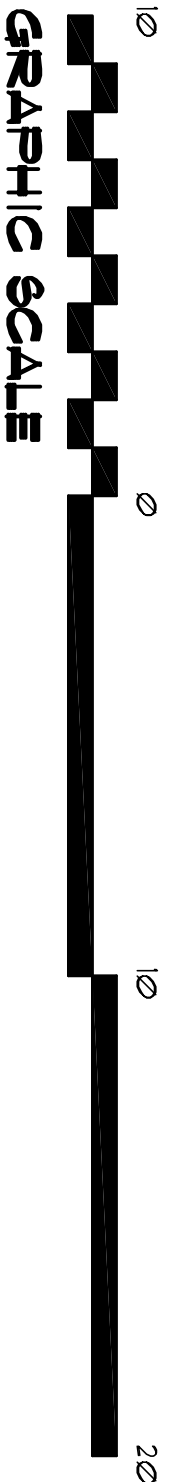


TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



DIMENSION PLAN

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



AREA CALCULATION

GROSS 1st FLOOR AREA:	3307.0 SF
GARAGE AREA:	649.3 SF
COVERED ENTRY AREA:	62.3 SF
COVERED PORCH AREA:	644.2 SF
TOTAL AREA:	4662.8 SF

REVISION:

DATE: 12/10/2020
DRAWN: [Signature]

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
DIMENSION PLAN

Celebrating
48 Years of Service
1972 - 2020
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE: 21 SEP 2021
CONTR: 2K2104

SHEET: 3 OF 13
A.3

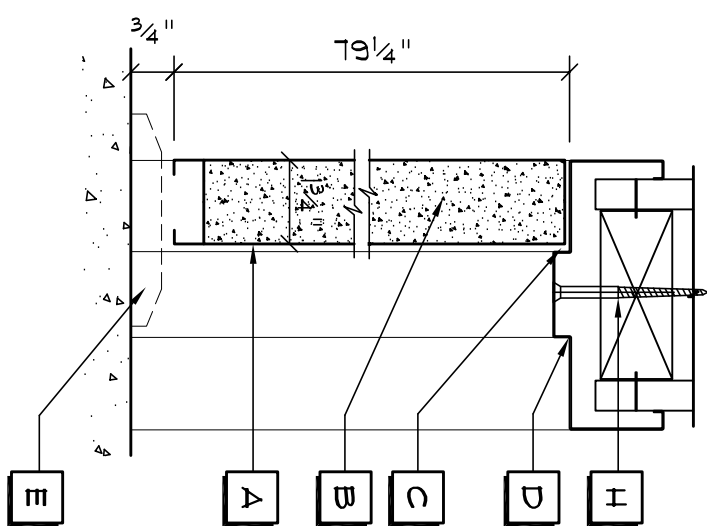
AR0007005

Door Notes

- A NATURAL WOOD VENEER SKIN (OR EQUAL)
- B SOLID CORE
- C COMPRESSION BULFERS
- D WOOD HEAD JAMB OR STEEL - SEE DOOR SCHEDULE
- E MARBLE THRESHOLD AT R/R DOORS
- F #0-24 X 1/2" F.H.T.S. (4) SCREWS PER HINGE INTO DOOR
- G #0-24 X 1/2" F.H.T.S. (4) SCREWS PER HINGE INTO JAMB
- H #0 X 2" F.H.U.S (2) SCREWS THROUGH HEAD INTO HEADER
- J DOOR HARDWARE AS PER DOOR SCHEDULE

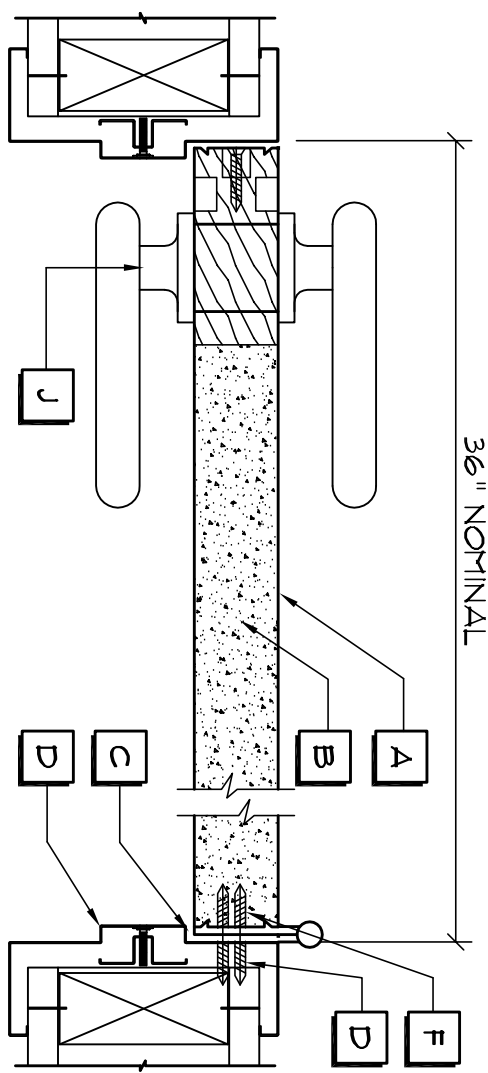
DESIGN PRESSURE RATINGS *		
POSITIVE	-16.0 PSF	
NEGATIVE	-16.0 PSF	

* WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED

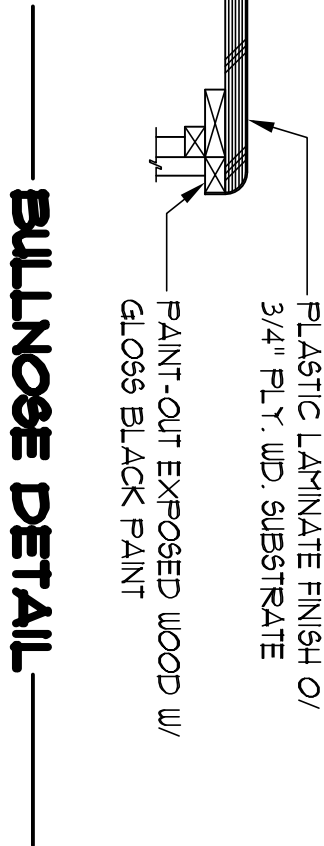


NOTE 1 1 1
EXTERIOR DOORS SHALL MEET OR EXCEED THE WIND RESISTANCE OF THE FOLLOWING PRODUCT:
SERIES ENTERGY 6-8 W/ INSULING
OPALQUE RESIDENTIAL INSULATED
STEEL DOOR W/ STEEL FRAME AS
MFG'D BY "FREUDOR ENTRY SYSTEMS"

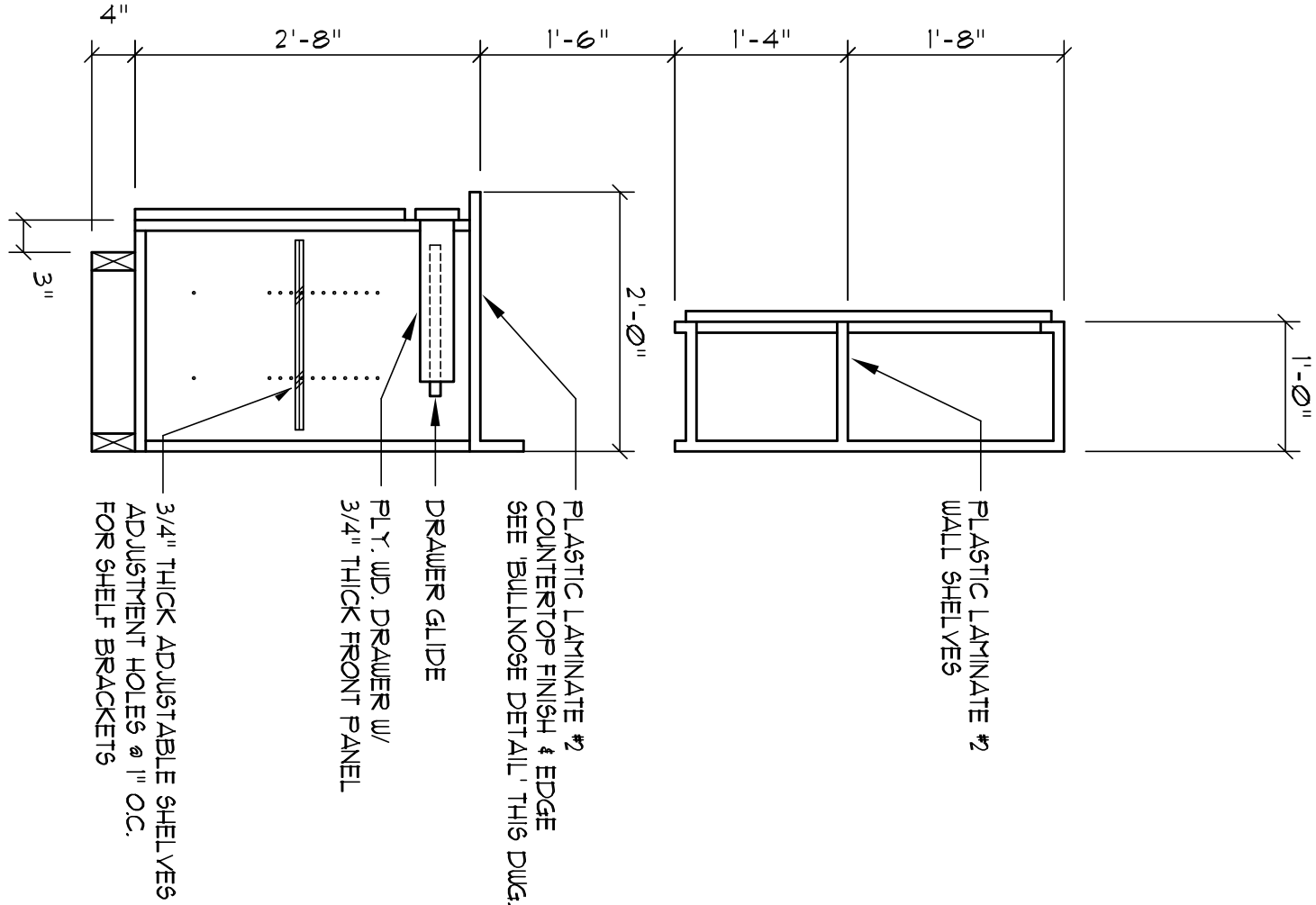
TYPICAL
VERTICAL SECTION



Interior Door DETAILS
SCALE : NONE



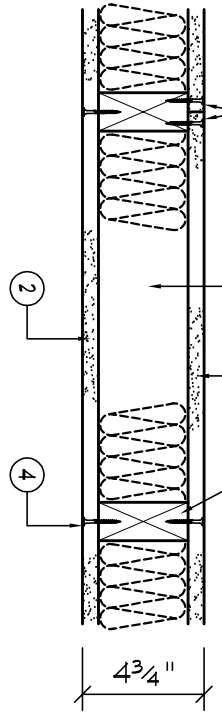
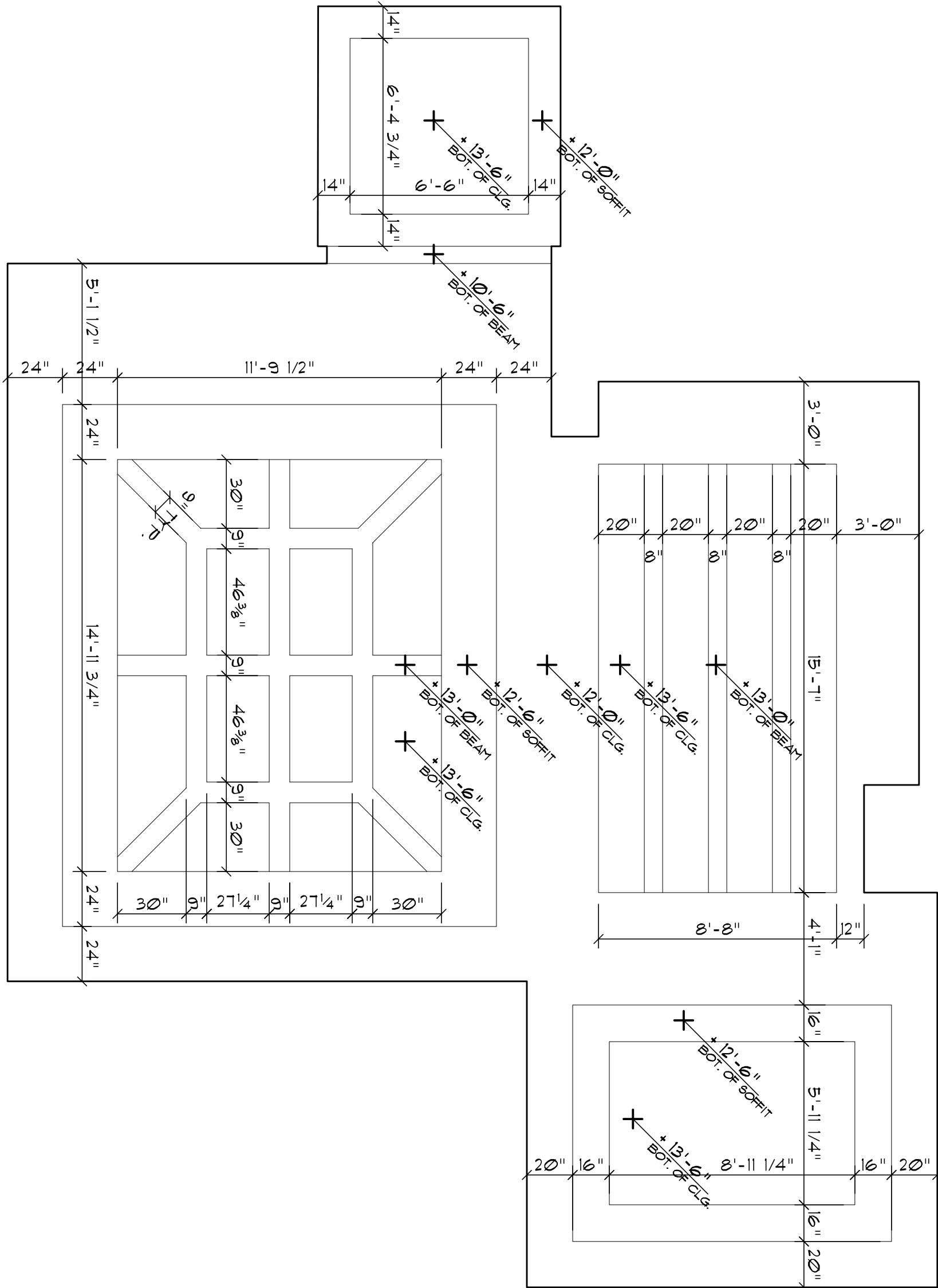
BULBcase DETAIL



Typ. SECTION
SCALE 3/4" = 1'-0"

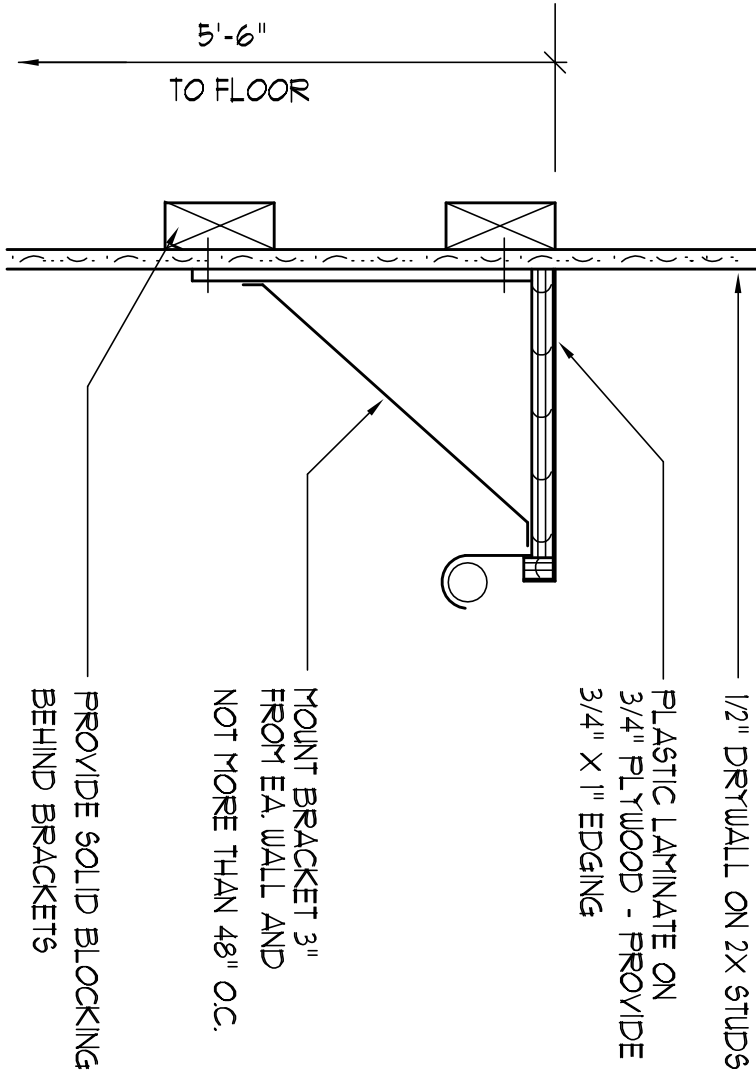
PARTIAL REFLECTED CLG PLAN

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



Design No. U333
Bearing Wall Rating 1 Hr.
Finish Rating 237 min.

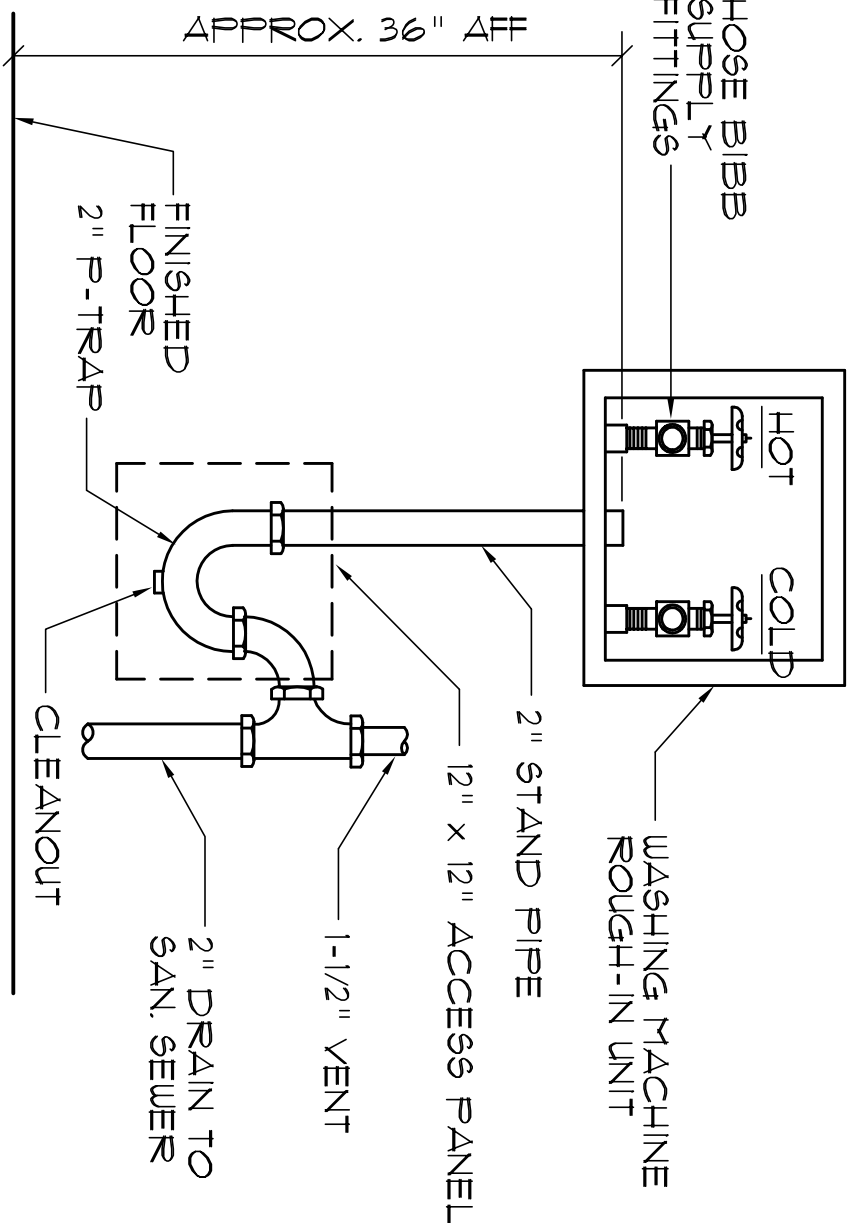
- 1 Wood Studs - Nom 2 by 4 in. spaced 16 in. O.C. effectively cross-braced.
- 2 Gypsum Wallboard - 5/8 in. thick 4 ft. wide applied either vertically or horizontally screw attached to studs and plates with 1 1/4 in. long Type W steel screws, spaced 12 in. O.C.
- 3 Canadian Gypsum Co. Ltd - Type C, Georgia Pacific Corp. Gypsum D.V., Type GFFS-C, United States Gypsum Co. - Type D or FF-XZ.
- 4 USG Interiors Inc. United States Gypsum Co.
- 5 Joints and Nailheads - Wallboard joints covered with paper tape and joint compound. Screwsheads covered with joint compound.
- 6 Bearing the UL Classification Marking



Closest Rod & Shelf Detail

SCALE: NONE

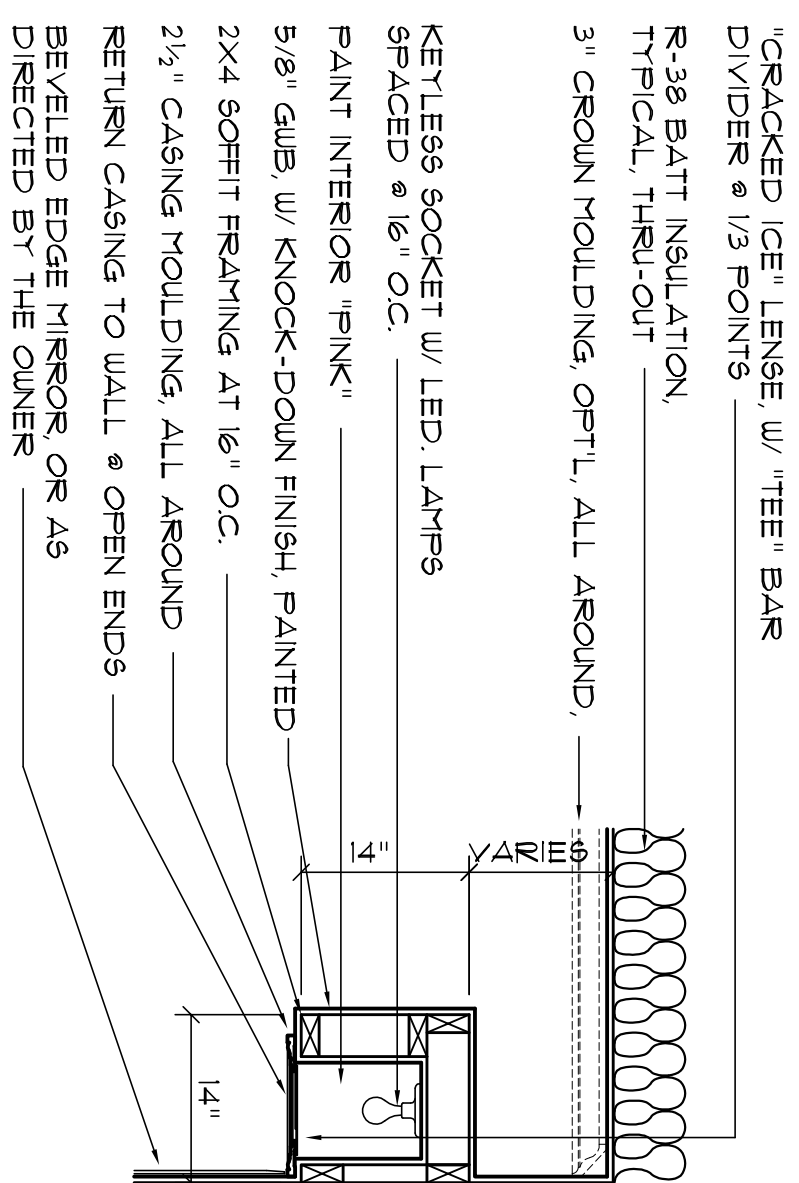
A



Washing Machine Hook-up Det.

N.T.S.

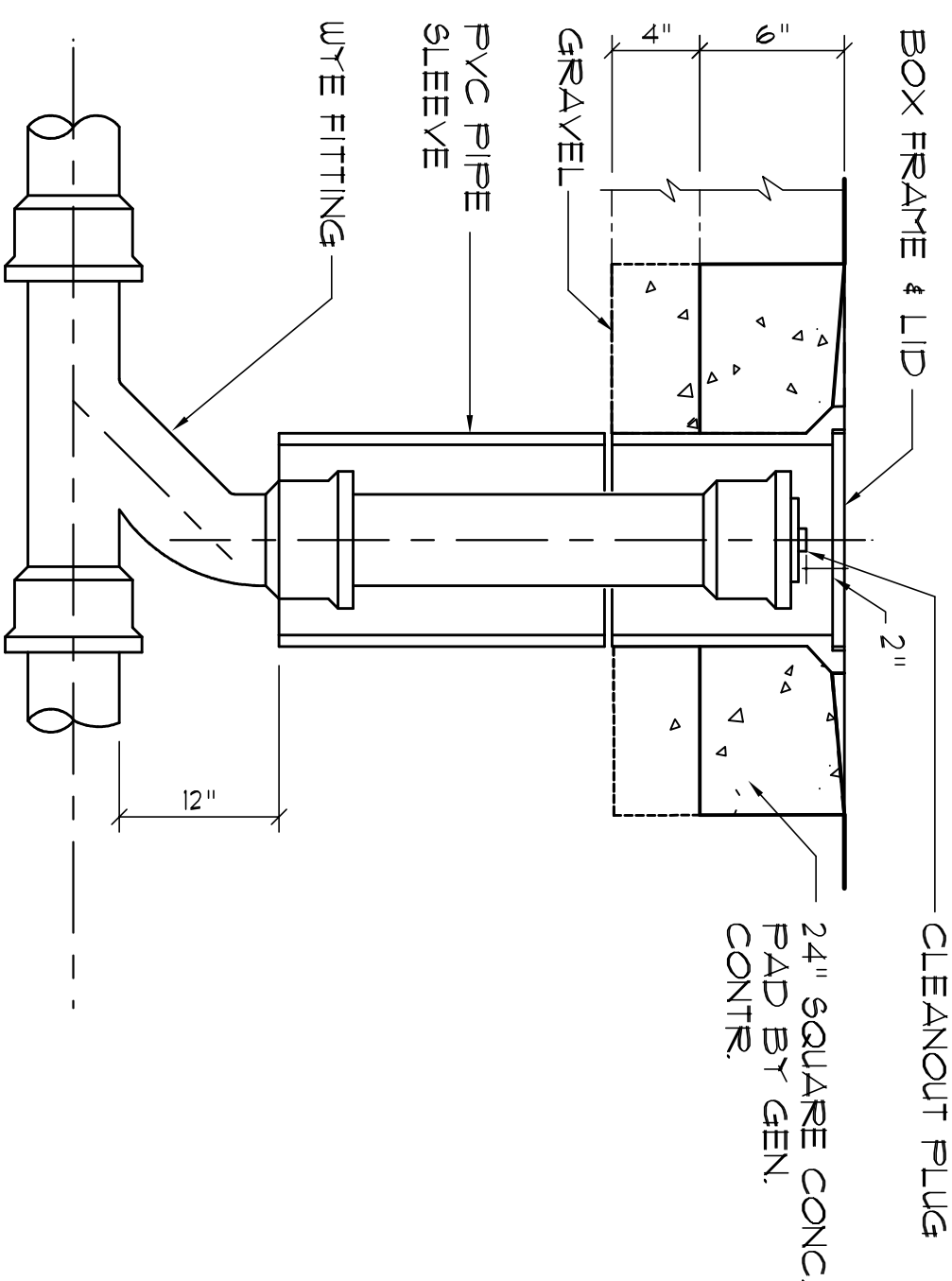
B



Lighting Soffit Detail

SCALE: 3/4" = 1'-0"

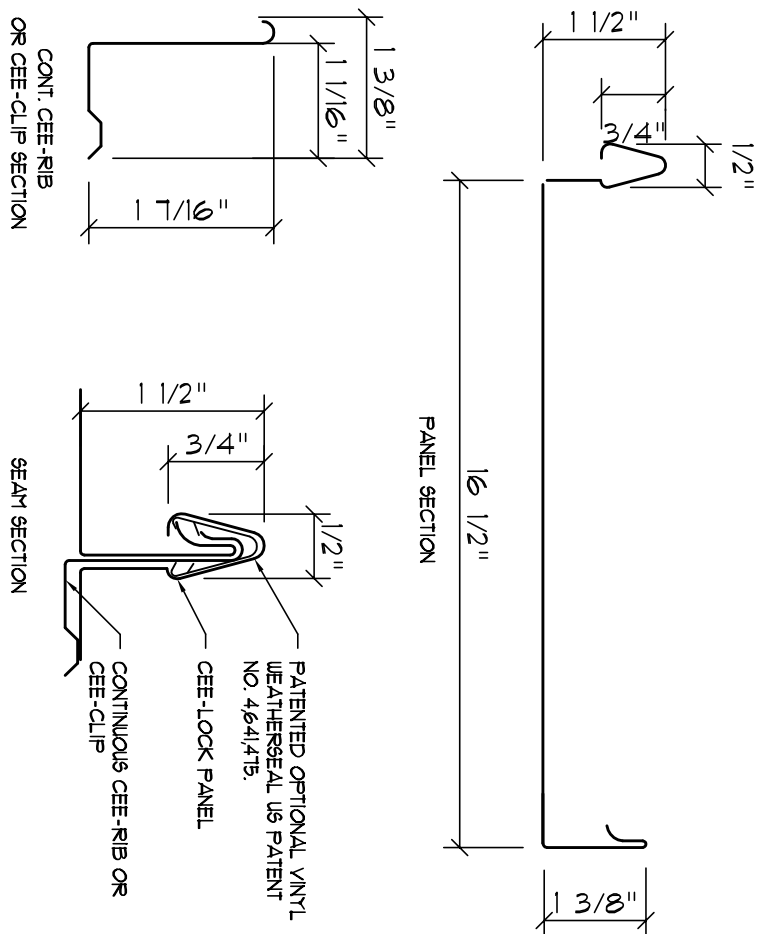
C



Outdoor Cleanout Detail

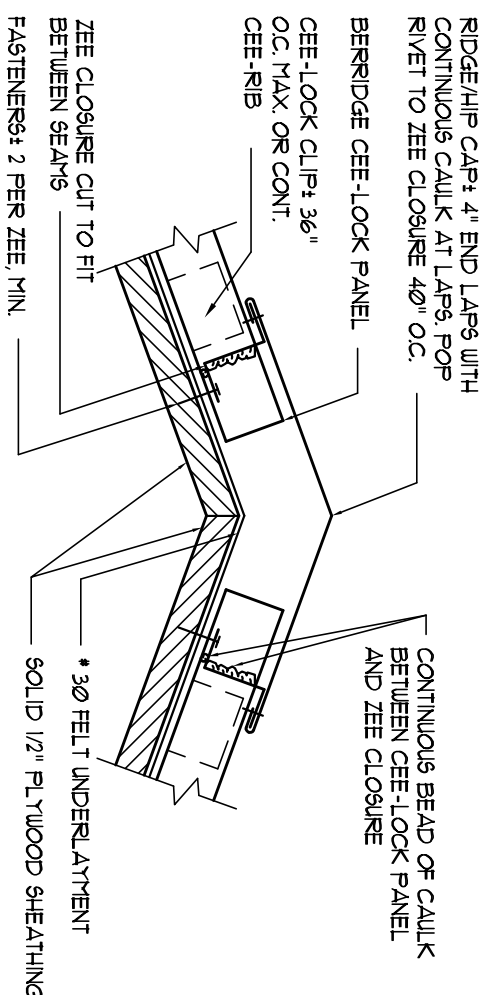
N.T.S.

D



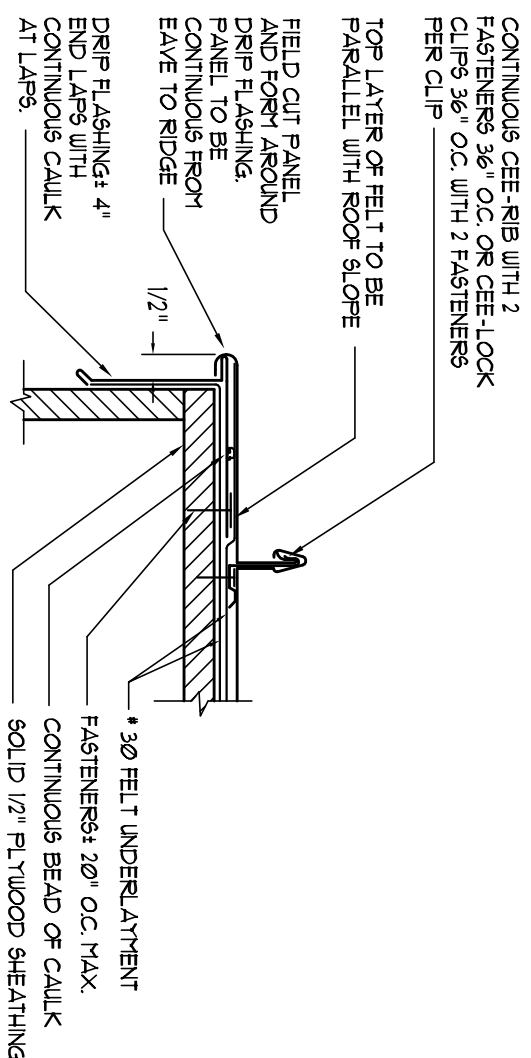
PANEL DETAIL

SCALE: NONE



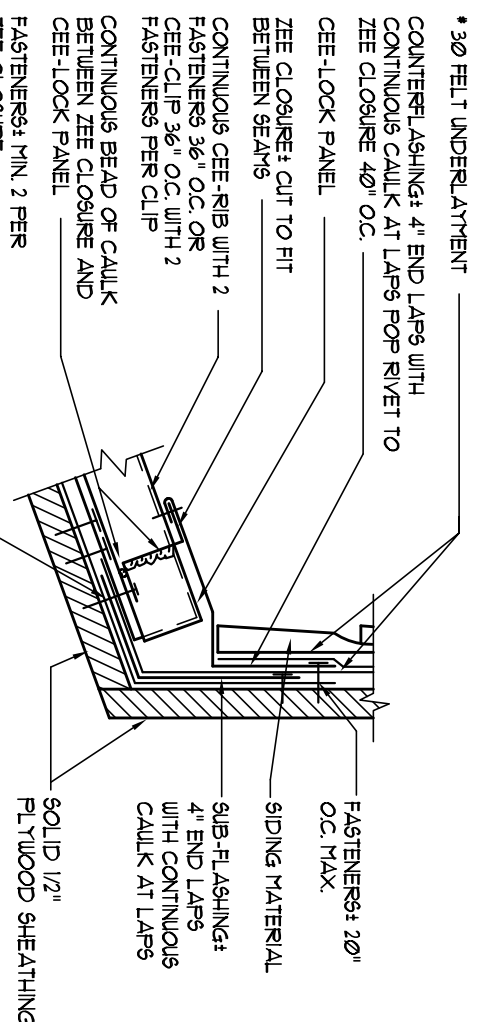
RIDGE/HIP DETAIL

SCALE: NONE



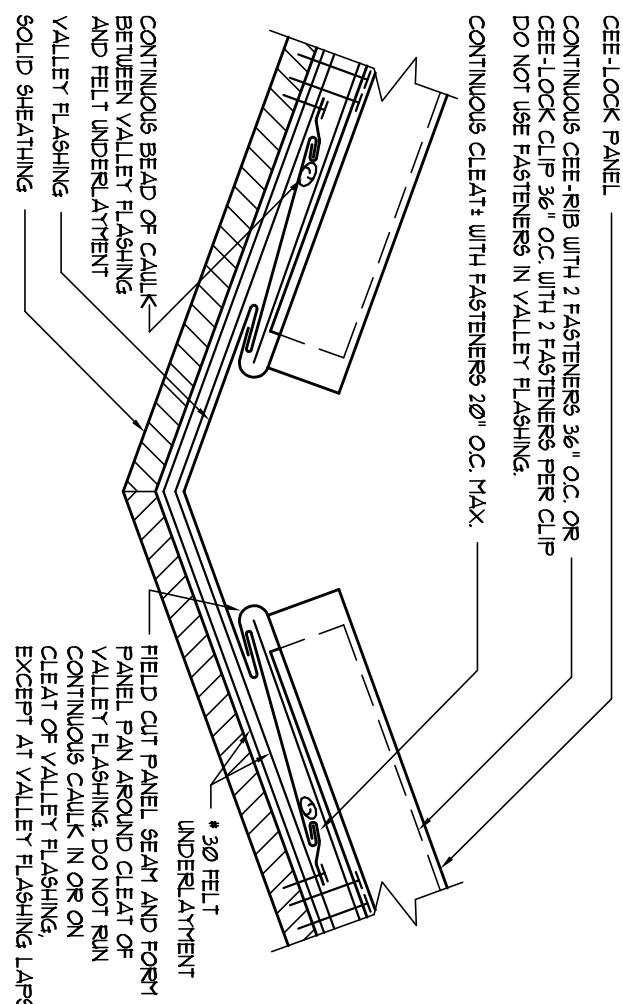
GABLE DETAIL / PANEL TURNDOWN

SCALE: NONE



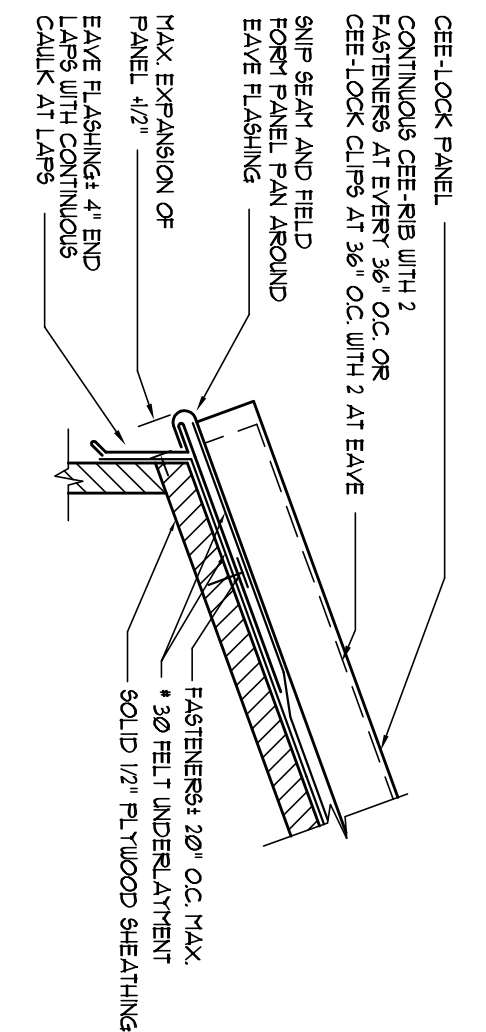
FLASHING DETAIL

SCALE: NONE



VALLEY DETAIL

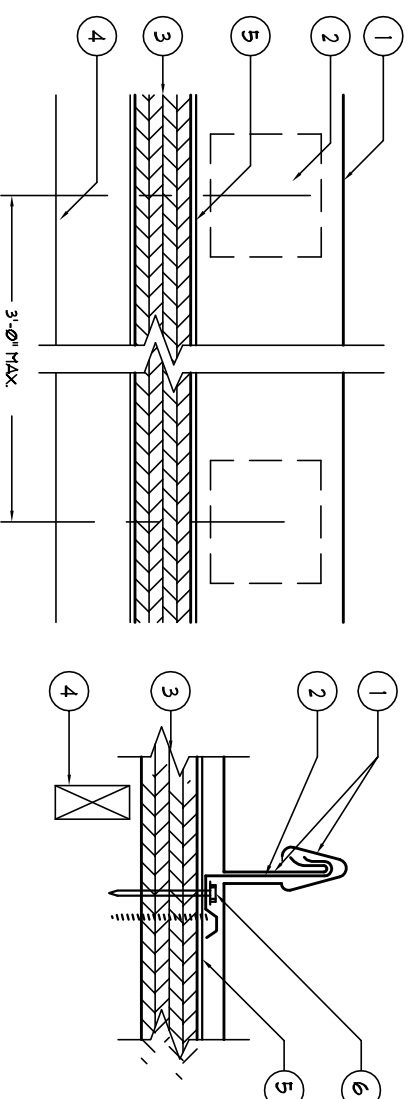
SCALE: NONE



EAVE DETAIL

SCALE: NONE

NOTE: ALL FELT UNDERLAYMENT CALLINGS AND FASTENERS SHALL BE REMOVED AND REINSTALLED BY THE ROOFING CONTRACTOR.



CLIP FASTENER DETAIL

SCALE: NONE

APPROVED ALTERATE:
ENLERT, INC.
1000 ARROYO AVENUE
PUEBLO, ARIZONA, N.J. 08062
1-800-331-9871
http://www.enlert.com

SHEET:
A.5

5 OF **13**

AR00007005

NICHOLAS GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Fort Lauderdale, FL 33305
366-365-4355

Celebrating 48 Years of Service
1972 - 2020
N.P. Geisler, Architect
AR00007005

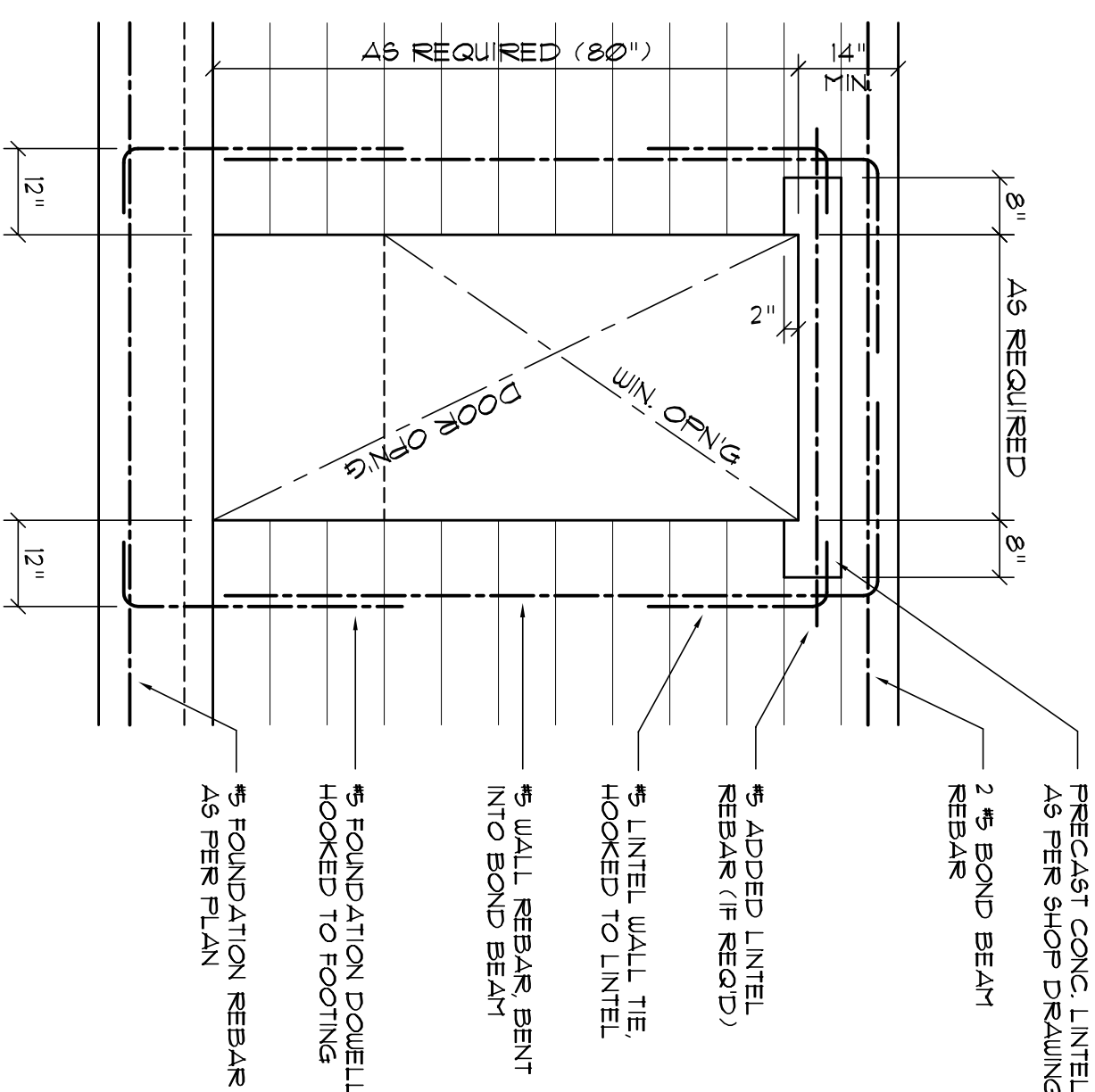
CUSTOM RESIDENTIAL DESIGN for:
M. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ARCHITECTURAL DETAILS

DATE:
21 SEP 2021
COMPL: **2K2104**

DESIGN: **118**

REVISION:

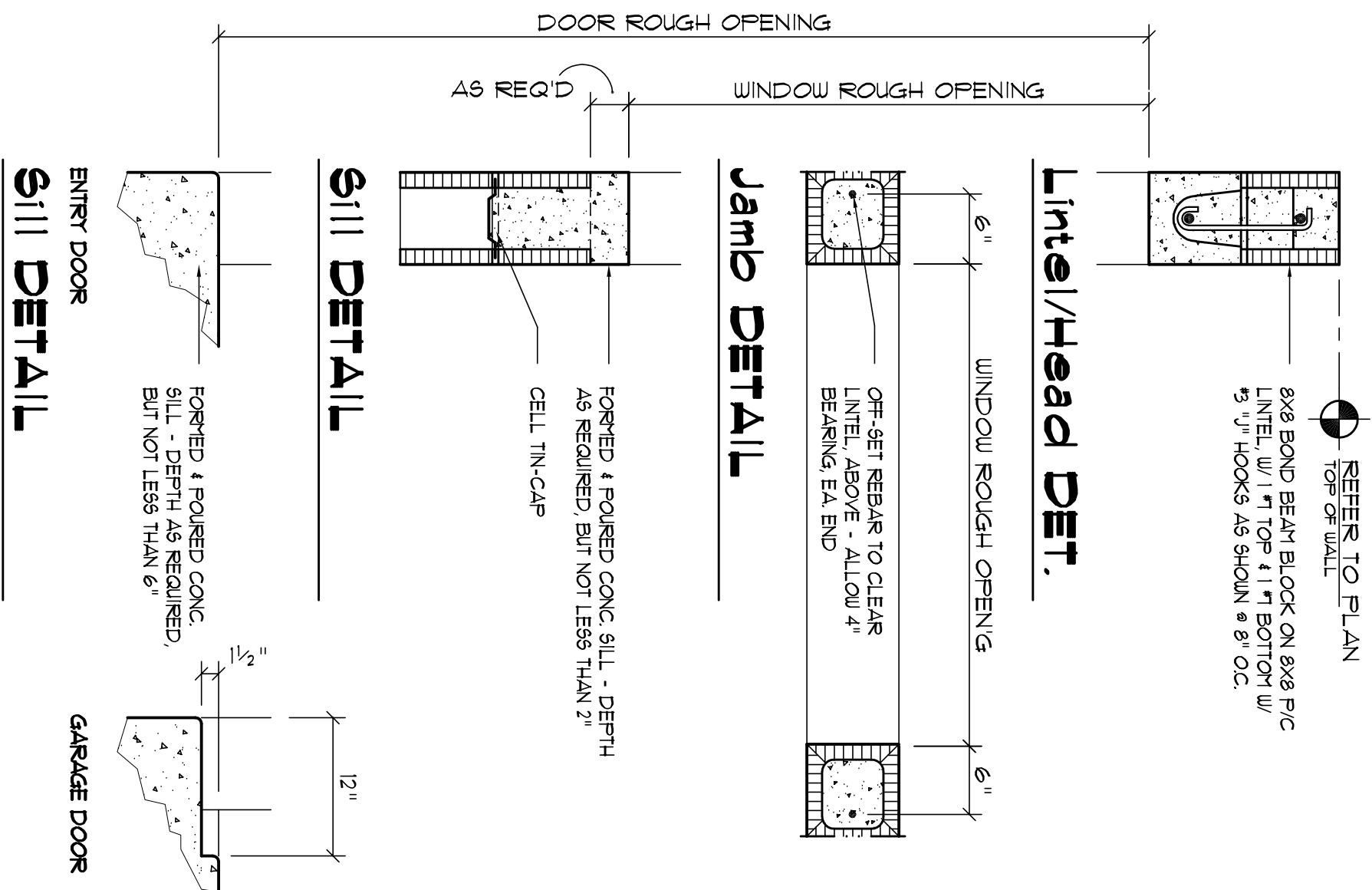
NOTE!
ALL BLOCK CELLS CONTAINING VERTICAL REINFORCING, SHALL BE SOLIDLY FILLED WITH CONCRETE - SEE GENERAL NOTES



Typical Door/Window Opening Reinforcing DET.

SCALE: 1/2" = 1'-0"

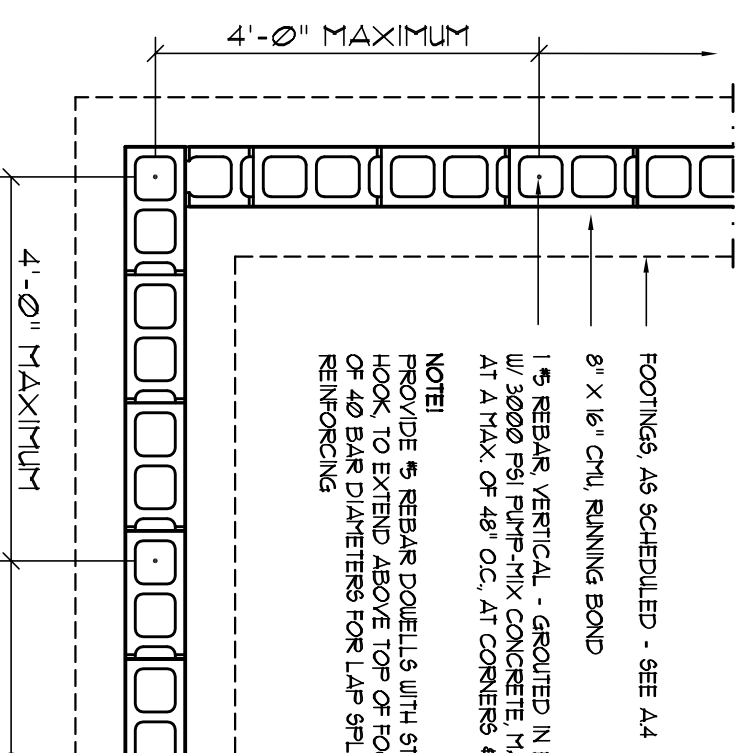
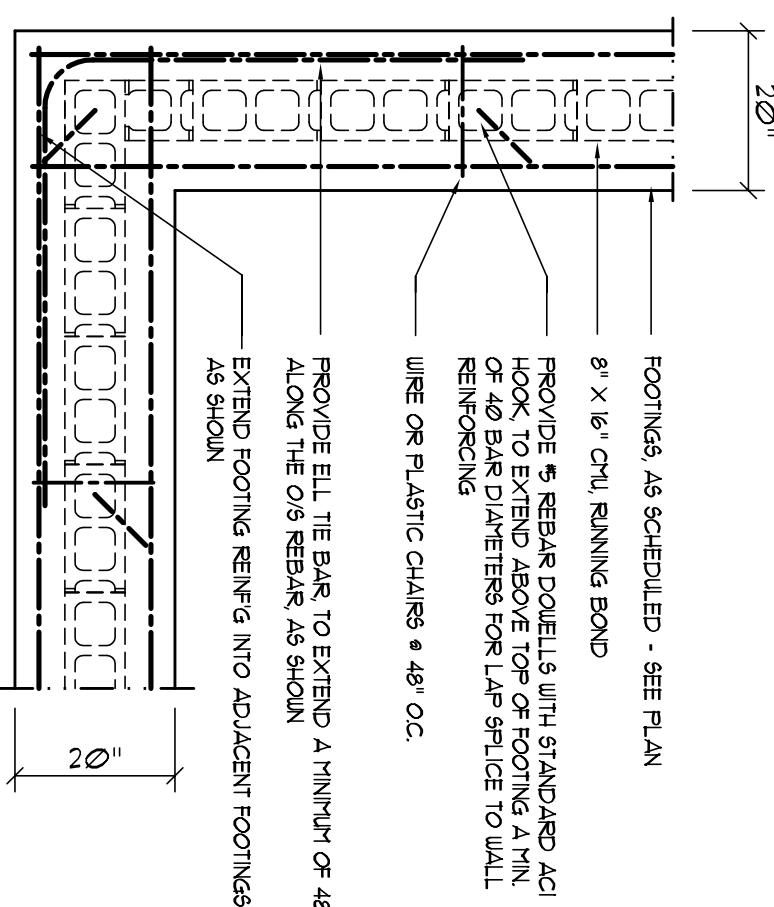
NOTE!
REFER TO GENERAL NOTES FOR LAP SPLICE AND HOOK
MINIMUM LENGTH/SIZE - ALL PER ACI 318-LATEST



Masonry Open's D.E.T's

SCALE: 1" = 1'-0"

U

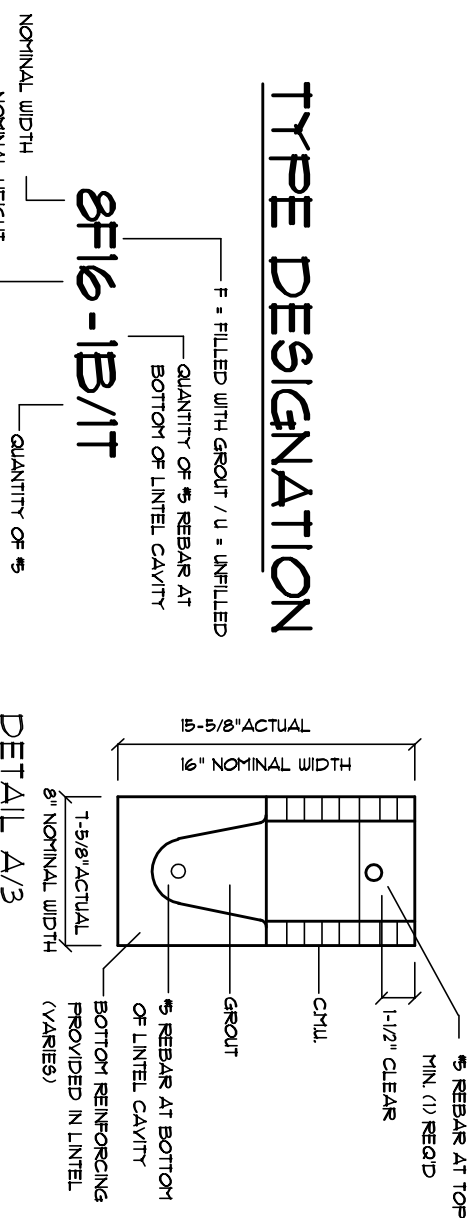


Wall/Foundation Rein'g Detail

SCALE: 1/2" = 1'-0"

Q

TYPE DESIGNATION



8" PRECAST & PRESTRESSED U-LINTELS

GRAVITY		GRAVITY		GRAVITY		GRAVITY		GRAVITY	
MARK	LENGTH	TYPE	RMS	06:00-08:00	09:00-10:00	10:00-12:00	13:00-15:00	16:00-18:00	19:00-21:00
L1	4.4" (34")	PRECISECAT	8(6)	97(9)	46(7)	67(7)	33(6)	10(7)	6(5)
L2	4.4" (34")	PRECISECAT	8(6)	71(7)	46(7)	60(5)	33(6)	10(7)	6(5)
L3	7.4" (60")	PRECISECAT	16(4)	96(8)	26(9)	80(5)	28(6)	33(6)	34(6)
L4	7.4" (60")	PRECISECAT	16(4)	96(8)	26(9)	50(5)	67(6)	64(4)	14(6)
L5	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	21(5)	20(6)	33(6)	33(6)
L6	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L7	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L8	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L9	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L10	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L11	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L12	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L13	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L14	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L15	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L16	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L17	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L18	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L19	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L20	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L21	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L22	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L23	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L24	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L25	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L26	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L27	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L28	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L29	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L30	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L31	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L32	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L33	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L34	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L35	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)
L36	7.4" (60")	PRECISECAT	16(4)	97(9)	26(9)	20(5)	20(6)	33(6)	33(6)

CRU WINDOW SCHEDULE

MARK	TYPE	WINDOW	INTEL	ROUGH OPENING	REMARKS
3-0-20	SH 22		5-4"	31 3/4" X 39"	
3-0-20	SH 25		5-4"	31 3/4" X 63"	EGRESS WINDOW
2-3-0-50	(12) SH 1/2 25		9-0"	11-4 1/8" X 63"	EGRESS WINDOW
2-2-0-50	(12) SH 1/2 35		6-4"	5-3 1/4" X 63"	
3-2-0-50	(13) SH 1/2		11-2"	10-0" X 63"	
3-3-0-50	(12) SH 1/2 35		12-6"	11-2" X 63"	

ALL WINDOWS MANUFACTURED BY: TBD

8" PRECAST W/ 2" RECESS DOOR U-LINTELS

[illegible]

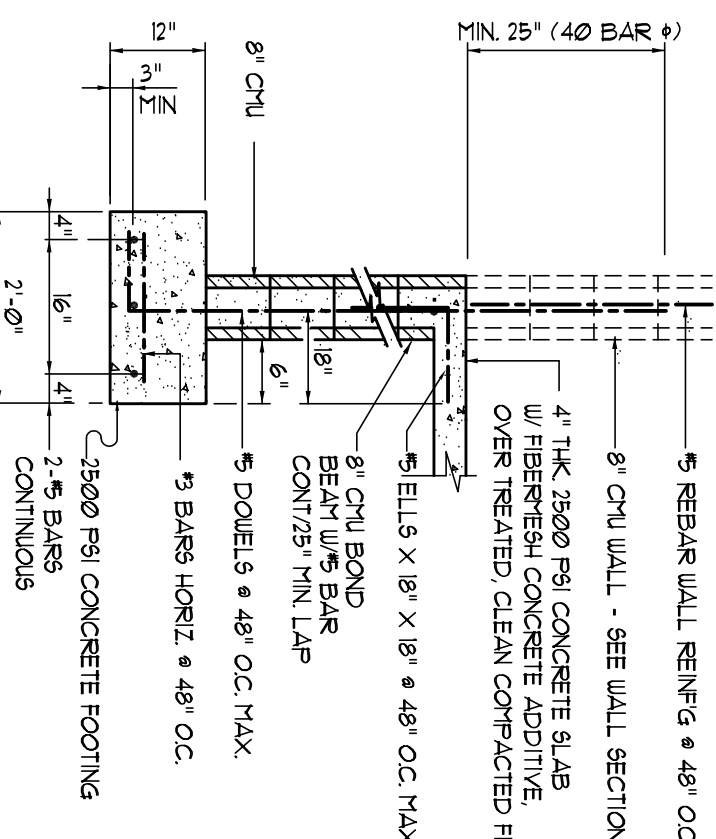
CMU DOOR SCHEDULE

TYPE	DOOR LINEL	REMARKS
3068 IN6	54"	PRE-CAST REC.
5068 FRENCH	80"	PRE-CAST REC.
6068 FRENCH	90"	PRE-CAST REC.

ALL DOORS MANUFACTURED BY: TBD

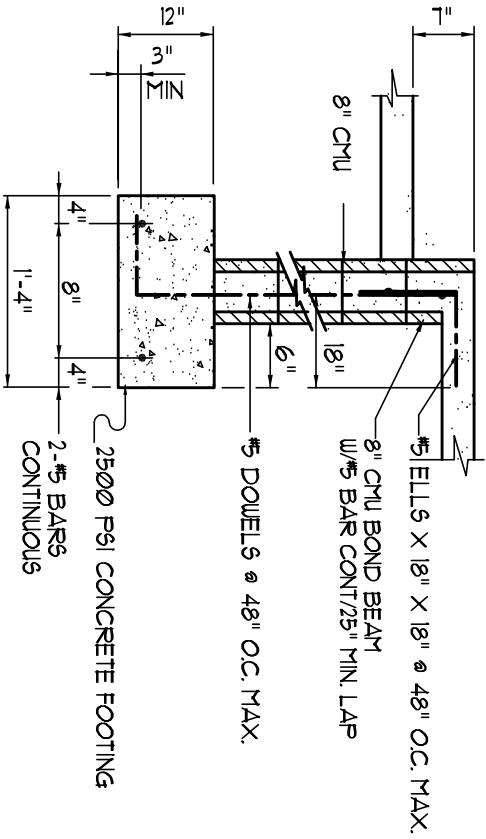
STEMWALL SECTION

SCALE: 1/2" = 1'-0"



STEMWALL

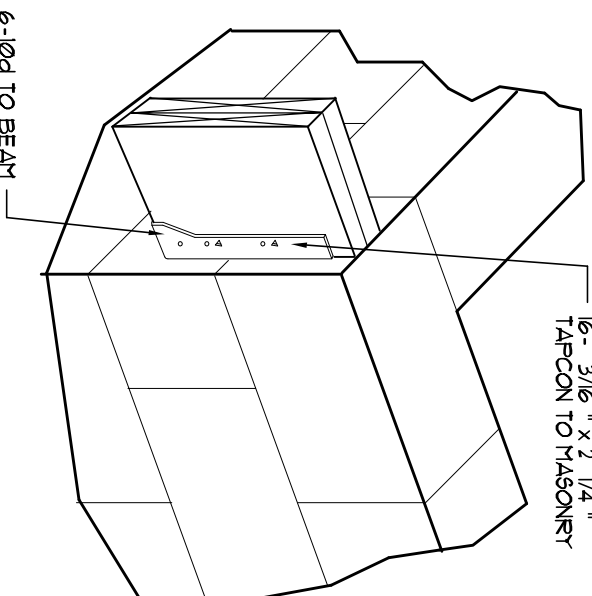
SCALE: 1/2" = 1'-0"



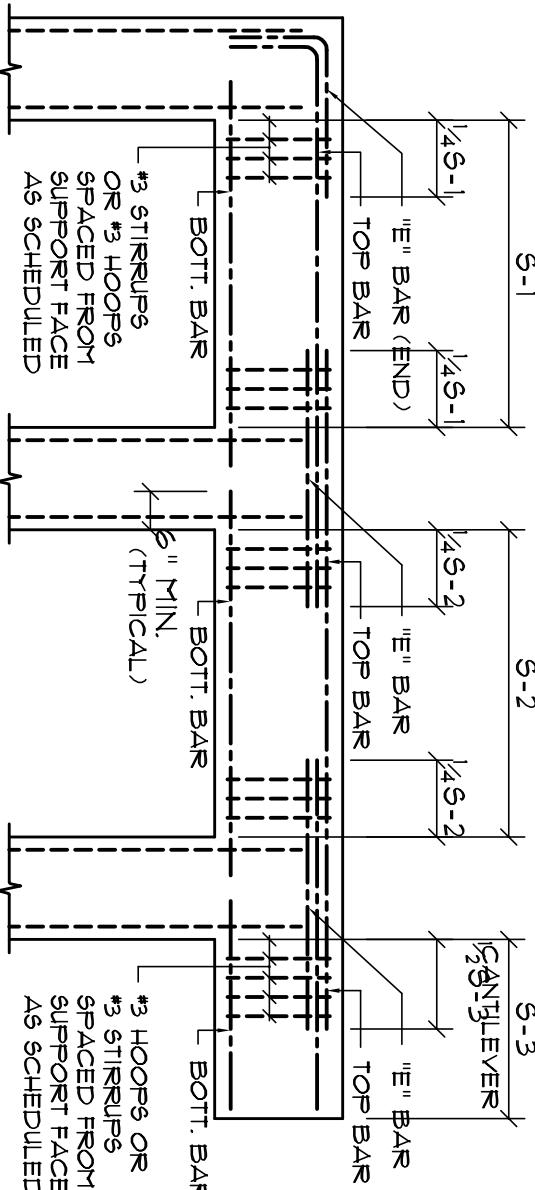
"Simpson" HUSC410

SCALE: NONE

WOOD BEAM TO MASONRY



**BOTTOM BARS - TOP BARS - "E" BARS
BENDING DIAGRAM: CAST-IN-PLACE
CONCRETE BEAMS AND SLABS**



GENERAL BEAM SCHEDULE NOTE:

1. NOTCHED HOOPS OR STIRRUPS SHALL BE PLACED AT EACH END OF BEAM SIZES NOTED OTHERWISE. STIRRUPS SHALL BE PLACED AT EACH END OF HOOPS SIZES TYPE 1 & 2. MINIMUM ONE BAR BENDING UNLESS NOTED OTHERWISE.
2. BUNDLE AT STRUCTURAL BEAM TOP BARS IN PAYS OVER SUPPORTS WITH TOP BARS FROM ADJACENT BEAMS.
3. ALL CONCRETE BEAMS OTHER THAN THOSE WITH THE PREFIX TB SHALL BE FORMED PRIOR TO PLACING OF BLOCK BELOW.
4. ALL THE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH THE BEAMS ONLY. ALL SPICES SHALL BE A MINIMUM OF 30 BAR DIAMETERS.
5. ALL THE BEAM TOP REINFORCING SHALL EXTEND TO SPAN OF ANY ADJACENT STRUCTURAL BEAM AS PER BENDING DIAGRAM.
6. DOOR BOTTOM OF THE BEAMS AS REQUIRED AT WINDOW AND DOOR HEADS (120 INCHES) AND ADD 2' 6" BOTTOM IF PROP EXCEEDS 6'.
7. THE BEAM DEVELOPMENT LENGTHS ARE MINIMUM AND MAY BE INCREASED (6" MAXIMUM) TO FIT BLOCK DEPTH.
8. ALL ADDED LONGITUDINAL BEAM REINFORCING SHALL EXTEND A MINIMUM OF 6" UNLESS NOTED OTHERWISE.
9. MARK "C" IN REINFORCING COLUMN BETWEEN TWO BEAMS INDICATES THAT REINFORCING SHALL BE CONTINUOUS THROUGH THESE TWO BEAMS.

$\frac{+|\theta' - \theta''|}{\text{TOP OF CMU WALL}}$

- PROVIDE ALONG TOP OF ALL CMU WALLS,
A P/T 2X8 X CONT. PLATE W/ 1/2" AB, NUT &
2" WASHERS @ MAX. 48" O.C. & WITHIN 8" OF
JOINTS/ENDS - ALL AROUND

NOTE: PROVIDE AT EACH TRUSS,
"SIMPSON" H3 ANCHOR STRAPS, EA. END,
MAX STRP UPLIFT = 455 LBS - MATCH NUMBER
OF ANCHORS W/ TRUSS SHOP DRAWING LOADS

8" X 24" W/ 2 #6 T 1 B, 4 #3
STIRRUPS: 4 @ 4", 4 @ 6" 1 2 @ 8"
EA. END OF EA. BEAM - BOT @ 16"

FORMED CONC. BEAM

P/T 2X6 X CONTINUOUS FASCIA
ALL EAVES —

$\frac{+12 = 0}{\text{TOP OF CMU WALL}}$

WOOD STRUCTURAL NOTES

1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE BRACING SYSTEM SHALL BE DESIGNED, RELEASED AND REINSTALLED IN ACCORDANCE WITH THE STANDARD GUIDE LINES OF THE "TRUSS" PLATE NUTRIUM.
2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. THE DESIGN SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE TRUSSES PLATE NUTRIUM.
3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESSER THAN 12" HIGH FIR OR BETTER.
4. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR GALVANNEAL. ALL CONNECTORS SHALL BE CALLED OUT ON THE TRUSS DETAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS DETAIL. THE CONTRACTOR SHALL REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.

GENERAL TRUSS NOTES:

- [illegible]

54" RIB METAL ROOFING PANELS						
ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES						
MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE						
FOR BUILDINGS ON 3" METAL ROOF HEIGHT 18" MIN. RICH						
BASED ON ASCE 7-10, EXPOSURE "C"						
ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 120	120 - 150	
			SPACING	TRIM	SPACING	TRIM
I	WD. SCREW	9/16" x 1 1/2"	WOOD	36"	18"	24"
	MTL. SCR.	9/16" x 1 1/2"	> 18 GA.	36"	18"	24"
2 & 3	WD. SCREW	9/16" x 1 1/2"	WOOD	36"	18"	24"
	MTL. SCR.	9/16" x 1 1/2"	> 18 GA.	36"	18"	24"

BOOKS

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

ALL PRECAST LINTELS SHALL BE 8F8-1E
CONFIGURATION, MINIMUM

÷ 12'-0"
TOP OF CMU WALL

NOTE:

REFER TO ELEVATIONS FOR ADDITIONAL
WALL HEIGHTS - CMU WALLS HAVE A 2X8
ADDED P/T PLATE, THROUGHOUT

REFER TO SHEET A.4, PARTIAL REFLECTED
CEILING PLAN, FOR DIMENSIONS OF TRAY
CELLINGS, ALSO A.2

ANC. W/ "SIMPSON" HUSC410
SEE G/A6, TYP. 2 LOC. —

8" PRE-CAST CONCRETE LINTEL
AS PER SCHEDULE, TYPICAL TO
"IMPERSON" H3 ANCHOR STRAPS SECURED
TO 2X8 TRUSS SEAT AND TRUSSES PER
TRUSS SPECIFICATIONS & 24" O.C.
CONT. P/T 2X8 NAILER W/ 1/2" A.B., 2" SQ. X 1/8"
WASHERS & 4# O.C. ALONG RING, 4" WITHIN 8"
OF ENDS, CORNERS & SPLICES

DBL. 1 3/4" X 1 1/4" 20E LVL BM.
AS PER DETAIL F/A12 _____

U
O
Q
T
U
Z
Z
O
H
T
O

- R-1 ALL ROOF PITCH 4:12 UNO.
SEE ROOF PLAN & ELEVATIONS
- R-2 ALL OVERHANG 20"
UNLESS OTHERWISE NOTED
- R-3 N/A
- R-4 MOVE ALL VENTS AND OTHER
ROOF PENETRATIONS TO REAR

A.11
11 OF 13

SHEET

2K2104

DATE _____

21 SEP 2022

DINWIDIE

2K2104

GET

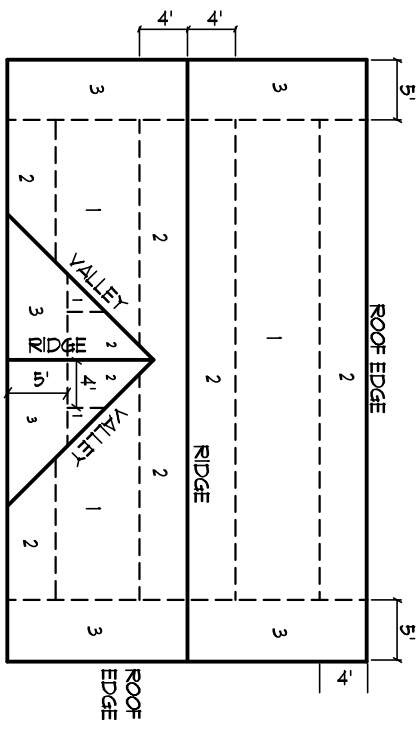
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AF0007005

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ROOF PLAN

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/8" GALS OR 5/8" COX BOV NAILS	6d CORNOR OR 6d HOT DRIFTED	6" X 6" EDGE 12" O.C. FIELD
2		6d CORNOR OR 6d HOT DRIFTED	6" X 6" EDGE 12" O.C. FIELD
3		4" X 6" GABLE ENDWALL OR 6d CORNOR OR 6d HOT DRIFTED	6" X 6" EDGE 12" O.C. FIELD



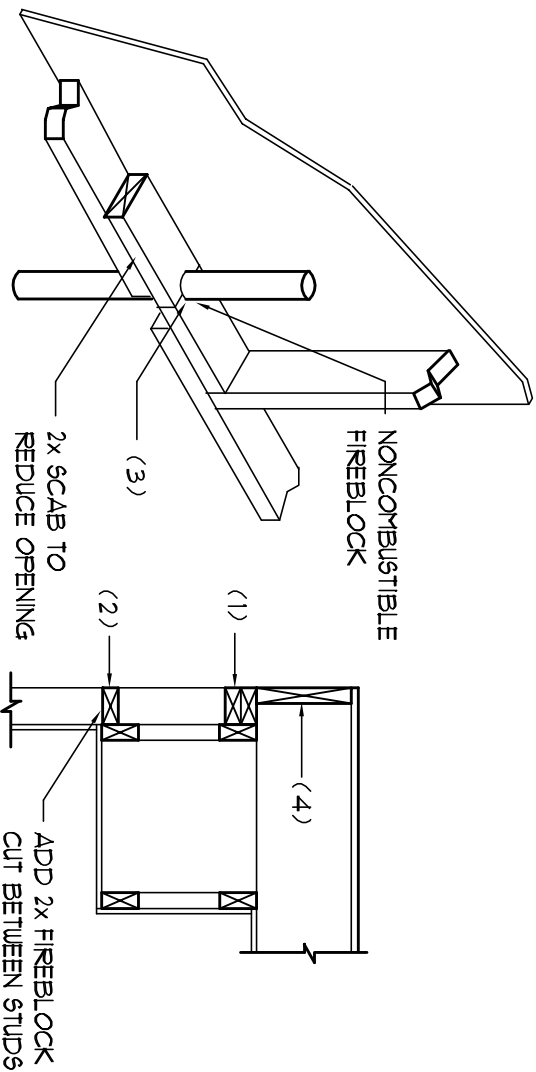
ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

A

HEADER SPANS FOR EXTERIOR BEARING WALLS				
HEADERS SUPPORTING:	HEADER SIZE	BUILDING WIDTH (FT)		
		20'	28'	36'
ROOF CEILING	2-2X4	3'-6"	3'-2"	2'-10"
	2-2X6	5'-5"	4'-8"	4'-2"
	2-2X8	6'-10"	5'-11"	5'-4"
	2-2X10	8'-5"	7'-3"	6'-6"
	2-2X12	9'-9"	8'-5"	7'-6"
	3-2X8	8'-4"	7'-5"	6'-8"
	3-2X10	10'-6"	9'-1"	8'-2"
	3-2X12	12'-2"	10'-1"	9'-5"
	4-2X8	9'-2"	8'-4"	9'-2"
	4-2X10	11'-8"	10'-6"	9'-5"
	4-2X12	14'-1"	12'-2"	10'-11"



PENETRATIONS

SOFFIT/DROPPED CLG.

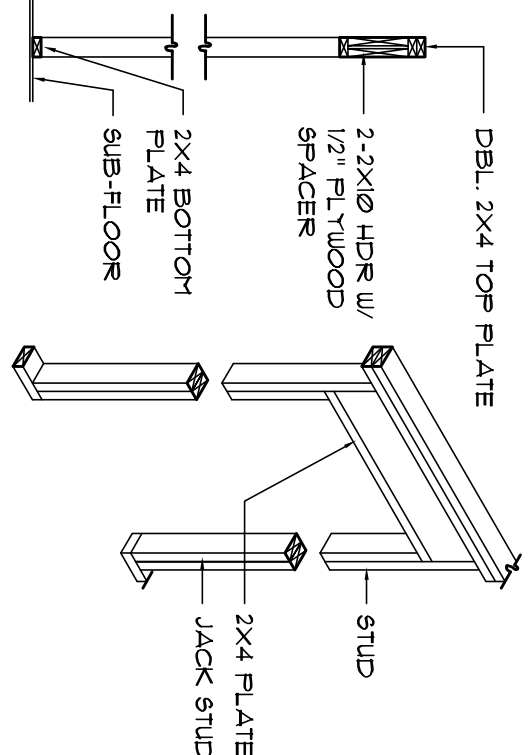
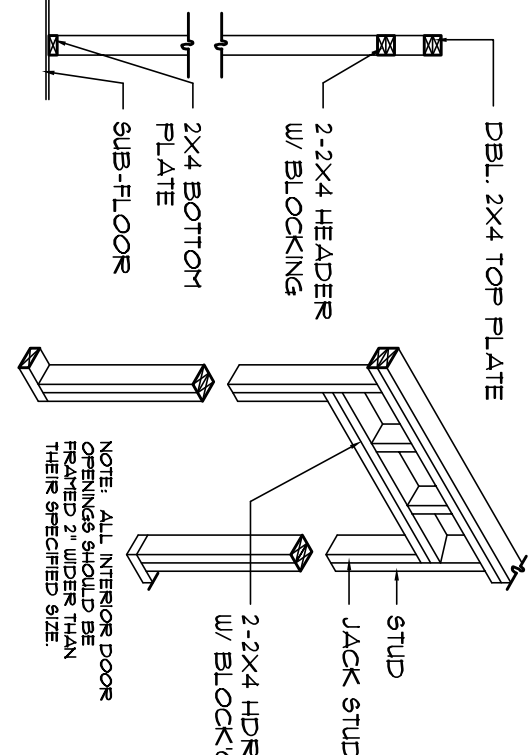
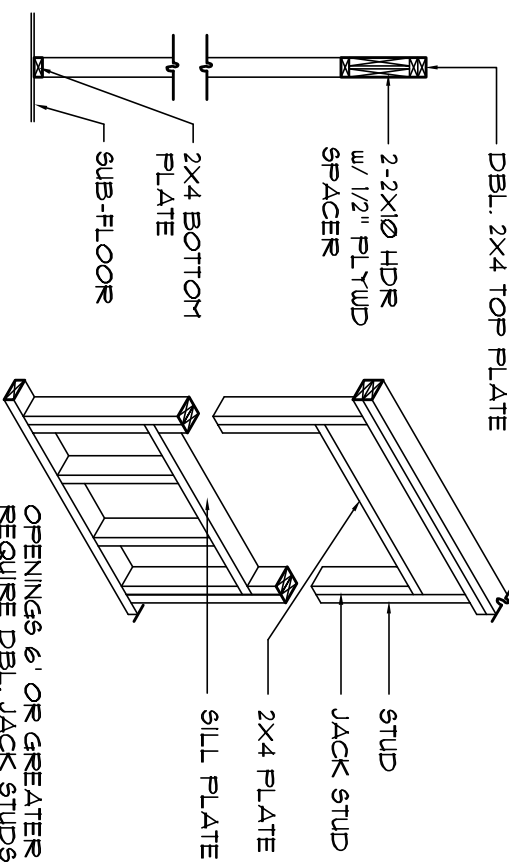
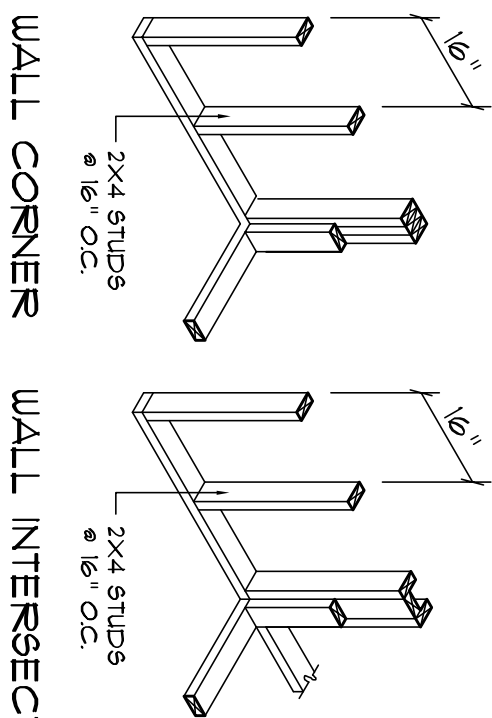
FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FINISHED SPACES AT CEILING AND FLOOR LEVELS
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROPPED CEILINGS, CORNERS, ETC.
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH TYPICAL MULTIFLEX SEALANT
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS

SCALE: NONE

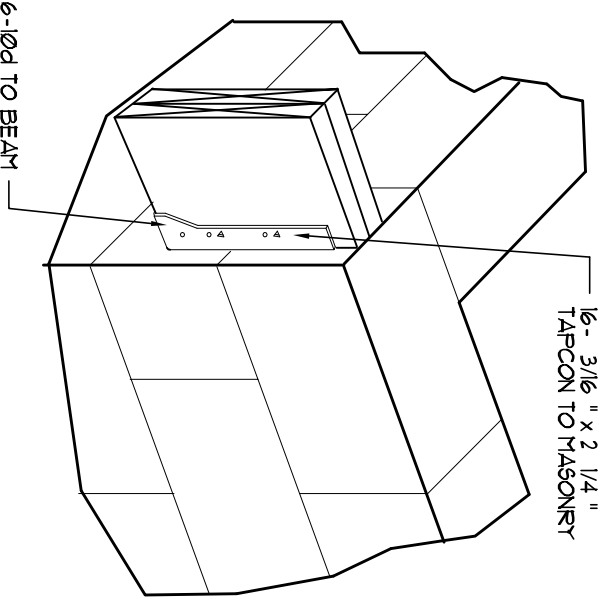
B



Wall Framing/ Header Dets

SCALE: NONE

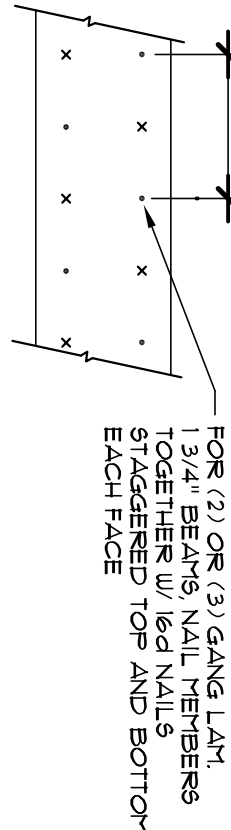
C



"Simpson" HUSC410

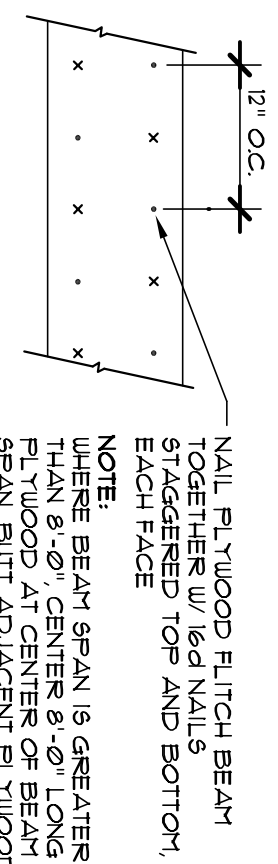
SCALE: NONE

D



MULTIPLE GANG LANT DETAIL

NOT TO SCALE



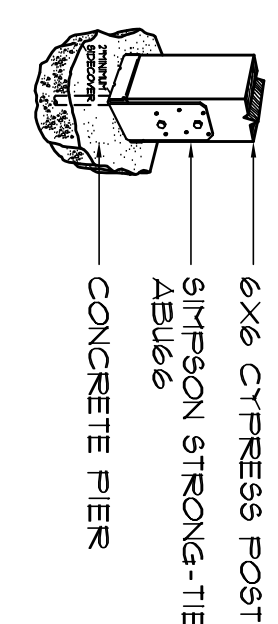
PLYWOOD FLITCH BEAM DETAIL

NOT TO SCALE

B/U Beam DETAILS

SCALE: NONE

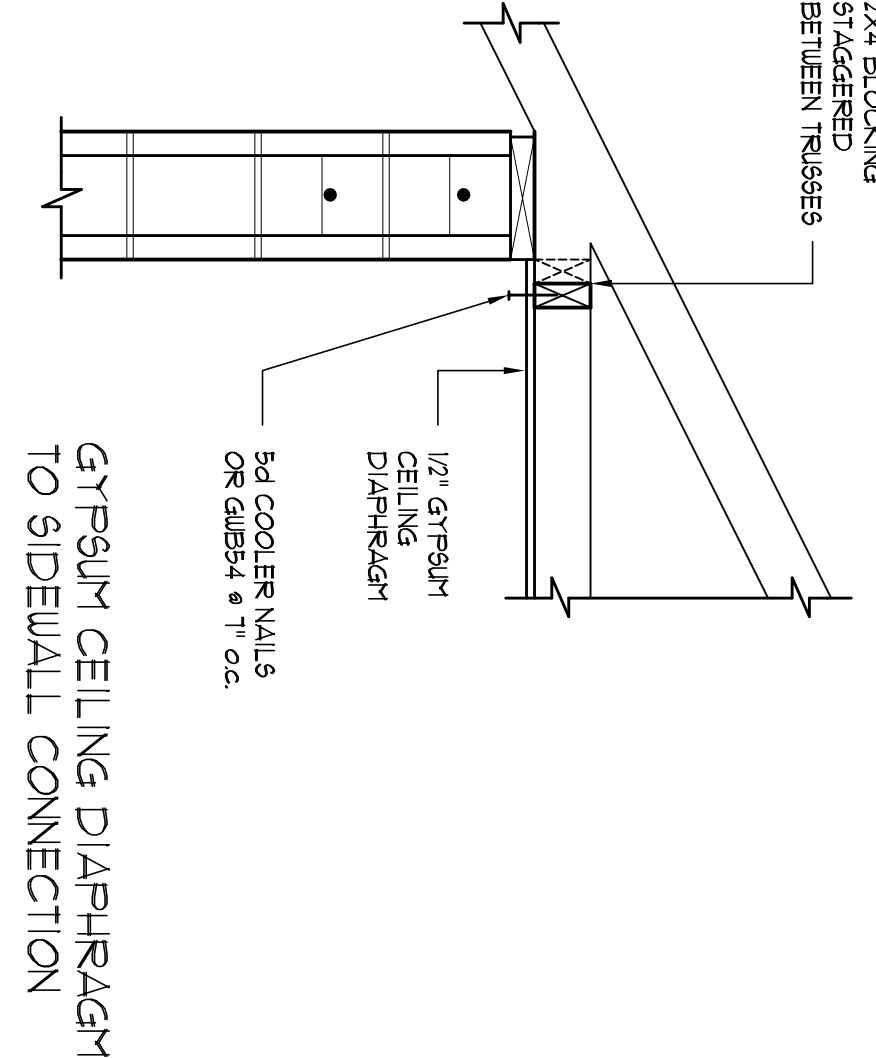
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Post Anchor DETAIL

SCALE: 3/4" = 1'-0"

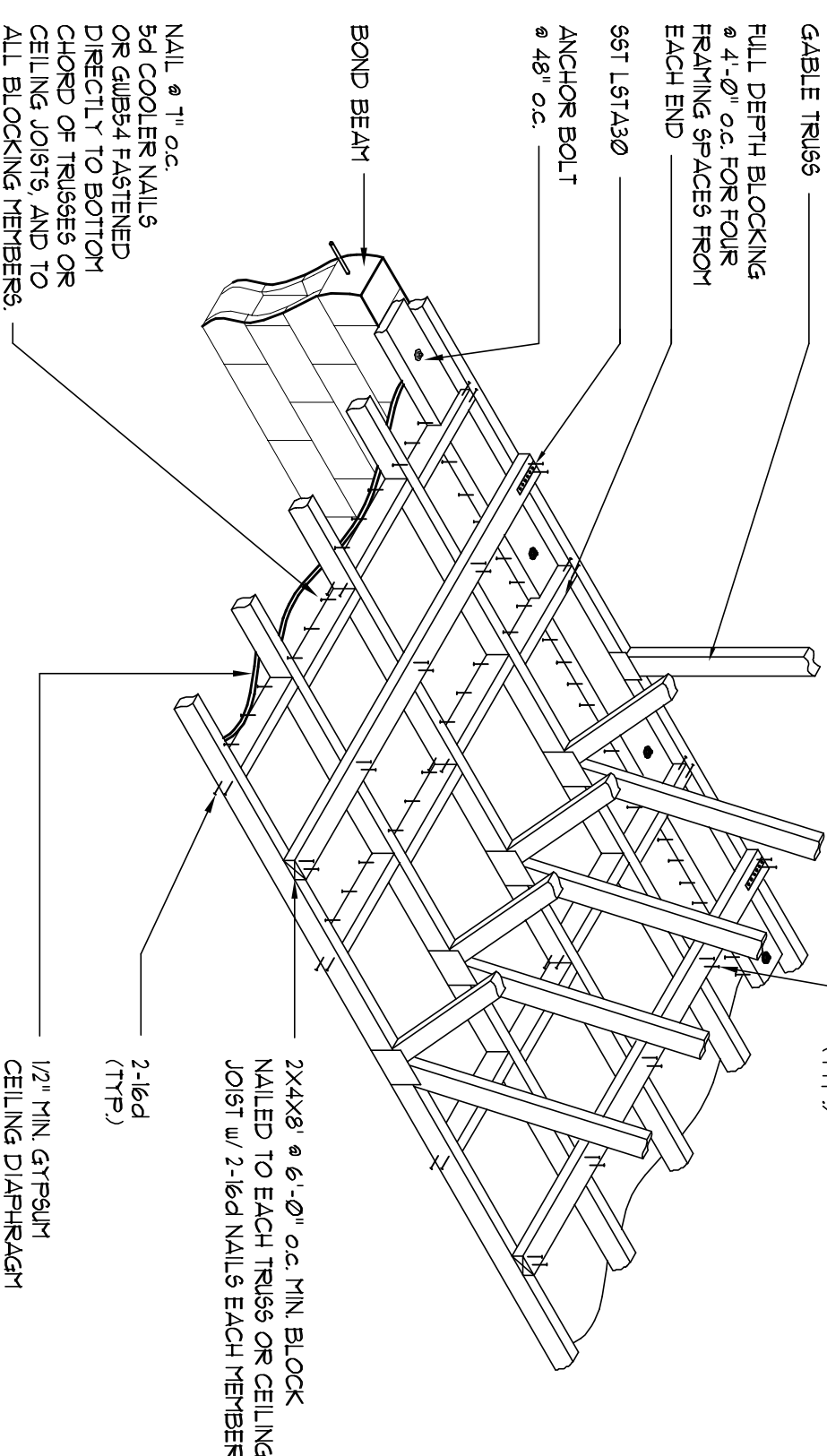
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Roof Edge DETAIL

SCALE: NONE

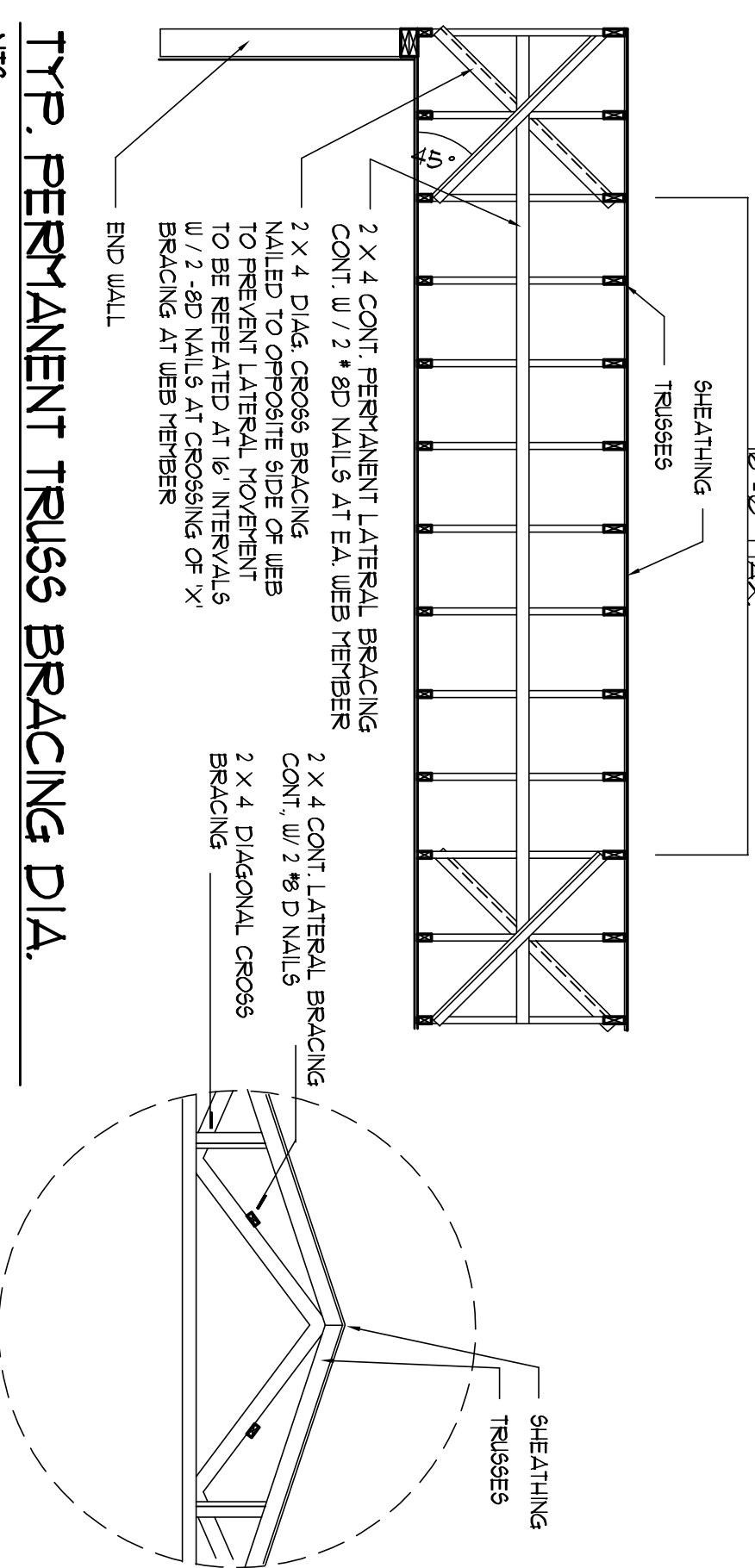
H



DIRECT TRUSS TO MASONRY CONNECTION ENDWALL FOR GYPSUM CEILING DIAPHRAGM

SCALE: NONE

I



Truss Bracing DETAILS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

SCALE: AS NOTED

J

REVISION

DATE: 21 SEP 2021

SCALE: 1/8"

CUSTOM RESIDENTIAL DESIGN for:
W. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

1972 - 2020
N.P. Geisler, Architect
AR0007005

NICHOLAS P. GEISLER
ARCHITECT
N.C.A.R.S. Certified

DATE: 21 SEP 2021
CONTRACT: 2K2104

SHEET: 12 OF 13
A.12

AR0007005

- ### POWER
- Ⓢ DUPLEX WALL RECEPTACLE
 - Ⓢ DUPLEX WALL RECEPT. BELOW COUNTER
 - Ⓢ 240V OUTLET
 - Ⓢ GND FAULT INTERRUPTER DUPLEX RECEPT.
 - Ⓢ WEATHER PROOF GFI DUPLEX RECEPT.
 - Ⓢ DUPLEX FLOOR RECEPTACLE
 - Ⓢ JUNCTION BOX
 - Ⓢ MOTOR
 - Ⓢ ELECTRICAL PANEL
 - Ⓢ ELECTRICAL SERVICE
 - Ⓢ EXHAUST FAN
 - Ⓢ SMOKE DETECTOR 120V
 - Ⓢ CARBON MONOXIDE DETECTOR 120V
 - Ⓢ NON-FUSED DISC SWITCH
 - Ⓢ NON-FUSED W/SP DISC. SWITCH
 - Ⓢ CHIME
 - Ⓢ MOMENTARY PUSH-BUTTON SWITCH, LIGHTED

LIGHTING

- Ⓢ GFI WALL SWITCH
- Ⓢ DPDT WALL SWITCH (3-WAY)
- Ⓢ GFI WALL SWITCH W/ DIMMER
- Ⓢ LED CHANDELIER
- Ⓢ CEILING FAN W/ LED LIGHT FIXTURE
- Ⓢ 2 LAMP LED, PRismatic WRAP SURFACE FIXTURE
- Ⓢ LED LIGHT FIXTURE
- Ⓢ LED HIGH HAT DOWN LIGHT
- Ⓢ VAPOR PROOF LED LIGHT FIXTURE
- Ⓢ HEAT LAMP
- Ⓢ SWITCH/FIXTURE WIRING
- Ⓢ CONTROL WIRE / LOW VOLTAGE

ELECTRICAL PLAN NOTES

- INSTALLATION SHALL BE PER 2008 NAT'L. ELECTRIC CODE. WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
- CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
- ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
- PROVIDE 4 INSTALL CARBON MONOXIDE DETECTORS IN ALL BEDROOMS. 8" 45V FN FL. INTERLOCKED TOGETHER.
- TELEPHONE TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS. 4 IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.
- ALL RECEPTICALS NOT OTHERWISE DESIGNATED SHALL BE A/C FAULT INTERRUPTER TYPE EXCEPT DEDICATED OUTLETS.
- ALL RECEPTICALS IN KITCHEN AND BATHS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI).
- ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUND FAULT INTERRUPTER TYPE (WPGFI).
- ELECTRICAL CONTR. SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK INCLUDING ANY REVISIONS TO THE ORIGINAL. PROVIDE 1 COPY OF "AS-BUILT" RIBER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ A/C CIR. IDENTIFIED W/ C/T N. DESCRIPTION 4 BRKR SERVICE ENT. 4 ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RIBER DIA SHALL INCLUDE WIRE SIZE/TYPE 4 EQUIPMENT TYPE W/ RATINGS 4 LOADS. PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER 1 COPY TO THE PERMIT ISSUING AUTHORITY.

ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf
4663 sf x 3w = 13989.0w
Water Circuit 1500.0w
Dishwasher Circuit 1500.0w
5m. Appliances Circuits (3 @ 1500w) 4500.0w
Sub-Total 21489.0w
Bal. of KW @ 35% 3000.0w
Bal. of KW @ 100% 6417.0w

Fixed Appliances:
Refrigerator (2 @ 1200w) 2400.0w
Cig. Fans (1 @ 200w) 1400.0w
GDO (2 @ 150w) 1500.0w
Pool Pump (Future) 1500.0w
EUH (2 @ 96kw) 1920.0w
Sparas (3 @ 400w) 1200.0w
Sub-Total 28900.0w
Load @ 75% D.F. 21675.0w

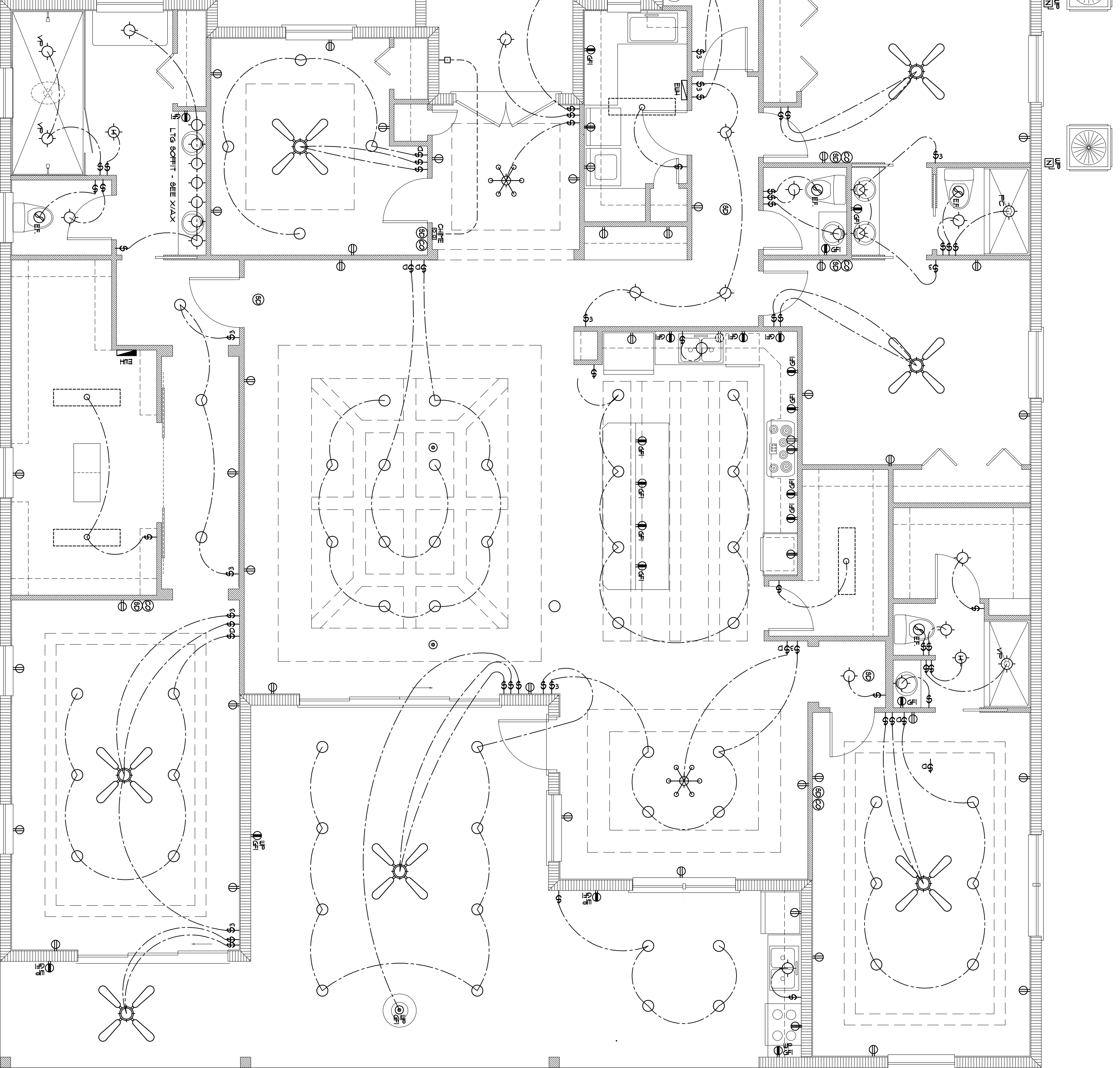
100% Demand Factor Loads:
Dryer 5000.0w
Range 6000.0w
Cooktop 6000.0w
Wall Oven 5000.0w
HVAC System N-1 (3.0T Heat Pump) 3600.0w
HVAC System N-2 (4.0T Heat Pump) 4800.0w
Total Demand Load: 63546w

FEEDER SIZE: 63546w / 240v = 264.8 amperes
USE 350KCMTHU CU, 1-250KCMTHU CU NEUT.
W/ 1/2 CU GND / 3/4 C.

PANEL SCHEDULE

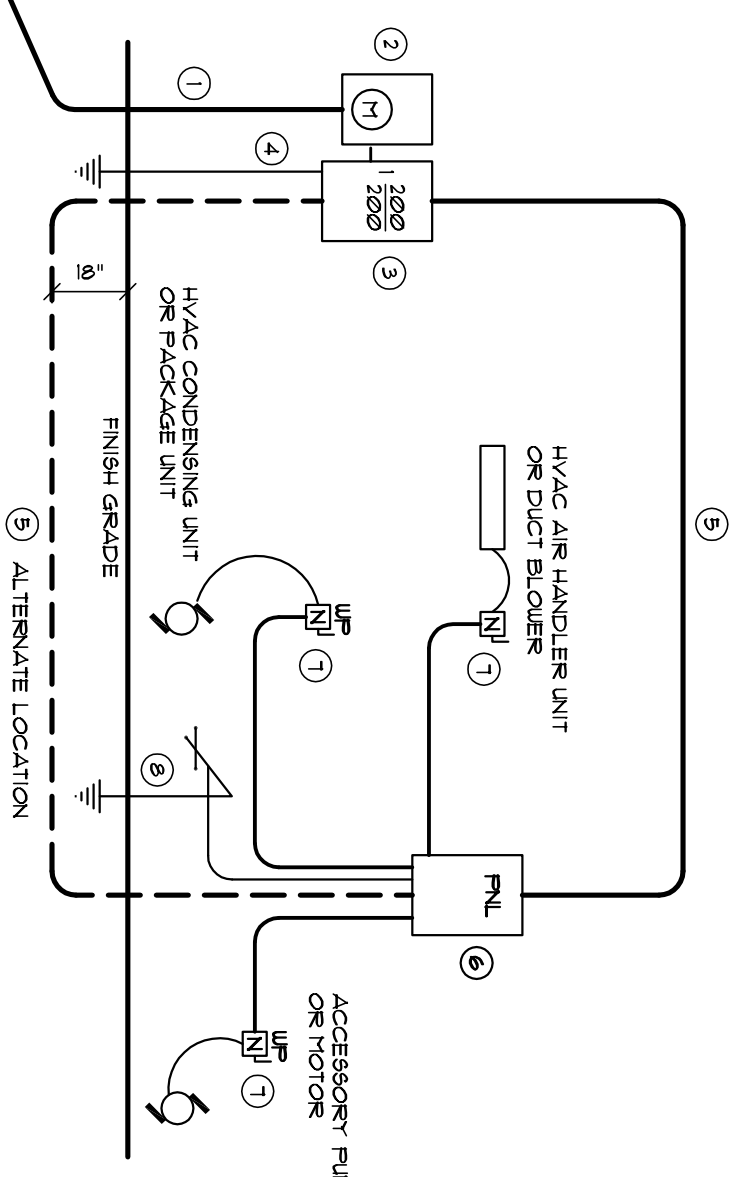
PANEL "L1", 300A - MLO - 120/240V - 1ø - 4 WIRE
52 SLOTT - FLUSH MOUNT

Cir.	Location	Tripp	Wire	Load
N.		Poles	Size	
1-12	Lighting/Recept.	15A/1P	14N	13989w
13	Dishwasher	15A/1P	12N	1500w
14-16	5m. Kt. Appliances	20A/1P	14N	4500w
17-18	Ceiling Fans	15A/1P	14N	1400w
19-21	EUH N-1	15A/1P	6N	9600w
20	Refrigerator N-1	15A/1P	14N	1200w
22	Refrigerator N-2	"	"	1200w
23-25	Range	50A/2P	6N	3600w
24-26	Cooktop	50A/2P	6N	6000w
27-29	Wall Oven	50A/2P	6N	6000w
30-32	Dryer	30A/2P	10N	5000w
31-33	HVAC CU N-1	50A/2P	10N	3600w
32-34	HVAC CU N-2	50A/2P	12N	4800w
35-38	HVAC CU N-1	50A/2P	10N	3600w
39-41	HVAC CUH N-2	50A/2P	12N	4800w
40-42	Flt. Pool Pump	20A/2P	"	1200w
43-50	Space	"	"	3200w
51-52	Space	"	"	"
TOTAL CONNECTED LOAD:				13989w



Electrical Plan

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



ELECTRICAL RISER DIAGRAM: 200A
SCALE: NONE

- Service/feeder Entrances Conductors: 2 1/2" rigid conduits, min. 8" deep w/ continuous ground bonding conductor. Service/feeder equipment shall be installed in a separate enclosure. Connections at the Meter/ Disconnecting Devices and Panel shall be allowed.
- Meter Enclosure, weatherproof, UL Listed.
- Main Disconnect Switch, fused or Main Breaker, weatherproof, UL Listed.
- Service entrance ground: 3/4" x nominal rod x 8'-0" long and/or concrete encased foundation steel rebar x 1/2" x 8'-0" long. Entrances shall be used per manuf. instructions. Service/feeder equipment shall be installed in a separate enclosure. Connections at the Meter/ Disconnecting Devices and Panel shall be allowed.
- 100 AMPERE SERVICE 3-7/8" USE CU, 1-1/4" CU-GND, 1" Conduit.
- House Panel (FNL), UL Listed, sized per schedule.
- Equipment Disconnect Switch, non-used, in weatherproof enclosure, size according to Panel Schedule load.
- Provides ground bond wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE:
THE MINIMUM A/C RATING FOR PANEL, BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,000 A/C.