



City of Foley

Mel Roberts Park

Restroom, Pavilion, Storage

BUILDING CODE AND ORDINANCES:

2018 INTERNATIONAL BUILDING CODE
2017 NEC
MINIMUM WIND SPEED REQUIREMENT OF 160 MPH. EXPOSURE "B" (ASCE 7-16)

AREAS:
ENCLOSED: 504 SF.
OPEN: 616 SF.
TOTAL UNDER ROOF: 1120 SF.
EXISTING BUILDING UNDER ROOF: 1575 SF.

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10. E1.0 ELECTRICAL PLAN
11. E1.1 ELECTRICAL PLAN
12. P1.0 PLUMBING PLAN

SITE / COVER
SCALE: 1" = 20'-0"

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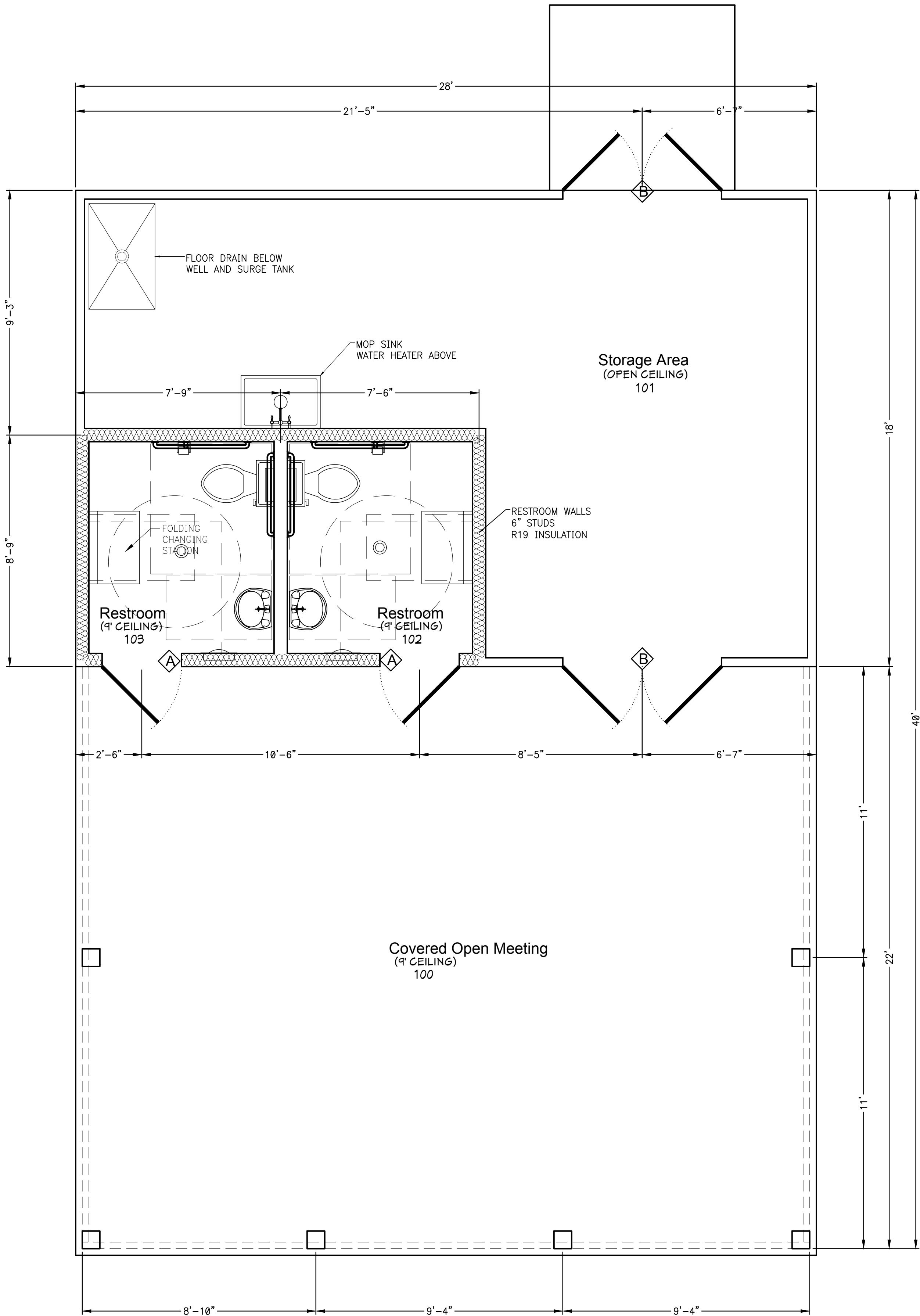
JOB NUMBER:
LES 200308

City of Foley
Mel Roberts Park
Tennis Pavilion

DATE:
06.02.2020
DRAWN: RRA
CHECKED: RRA
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07.27.2020

SCALE:
1" = 20'-0"

SHEET NO:
C01
OF
12



FLOOR PLAN
SCALE: 3/8" = 1' - 0"

| DOOR SCHEDULE | | | | |
|---------------|----------|------------|------------|-----------------------|
| NO.: | Size | Type | Model | Notes |
| $\diamond A$ | 3070 | METAL EXT. | See Specs. | ADA HARDWARE. CLOSURE |
| $\diamond B$ | (2) 3070 | METAL EXT. | See Specs. | ADA HARDWARE |

| ROOM FINISH SCHEDULE | | | | | | | |
|----------------------|------------|--------------|-------|-------------------|--------|--------------|------|
| No.: | Name: | FLOORS | | WALLS | | CEILING | |
| | | SEE NOTES | BASE | MATERIALS | FINISH | MATERIAL | HGT. |
| 100 | COVERED | F-2 | N.A. | SEE ELEVATIONS | B&B | OSB, PAINTED | 9 |
| 101 | STORAGE | F-2 | WOOD | WOOD STUDS | OSB PT | OPEN | 9 |
| 102 | RESTROOM 1 | F-3 | VINYL | WOOD STUDS | N-1 | MAG/GYP | 9 |
| 103 | RESTROOM 2 | F-3 | VINYL | WOOD STUDS | N-1 | MAG/GYP | 9 |

NOTES:
F-2 = LIGHT BROOM FINISHED CONCRETE
F-3 = STONHARD WITH 4" BASE
FLOOR, WALL & CEILINGS TO BE WASHABLE FINISH SURFACES TO MEET HEALTH DEPT. REQUIREMENTS

DEFINITIONS:
PT: PAINT 1 PRIMER COAT, 2 FINISH COATS (COLOR SELECTED BY OWNER)
MAG/GYP: MAGNESIUM / GYPSUM BOARD (PT) 1/2" THICK - OVER RETS ROOMS, ADD 2" x 4" BLOCKING @ 12" o. c. BETWEEN JOISTSZ

D BY MANUFACTURER
B.M. :
B&B: BOARD AND BATTEN
VAR.: VARIES

Foley Mel Roberts Park Tennis Restroom Code Data:

- BUILDING IS DESIGNED, & SHALL BE CONSTRUCTED UNDER: 2018 "I-CODES", 2017 NATIONAL ELECTRICAL CODE, & 2009 ANSI A117.1.
- BUILDING IS OF TYPE "VB" CONSTRUCTION (UNPROTECTED) & IS ONE STORY ABOVE GRADE.
- BUILDING AREA IS 1,120 SQ. FT. (28' x 40')
- ENTIRE STRUCTURE IS "B" OCCUPANCY (BUSINESS) (SECTION 304).
- ALLOWABLE AREA FOR ONE STORY BUILDING OF TYPE "VB" WITH A "B" OCCUPANCY, WITHOUT A SPRINKLER SYSTEM IS 14,000 SQUARE FEET >1,344 SQ. FT. (TABLE 506.2).
- SEPARATION OF OCCUPANCIES IS NOT REQUIRED, BECAUSE THERE IS ONLY ONE OCCUPANCY AND AN "B" BUILDING, IS NOT REQUIRED TO BE SEPARATED FROM ANOTHER "B" BUILDING (TABLE 508.4).
- A SPRINKLER SYSTEM, CONFORMING WITH SECTION 903, IS NOT REQUIRED BECAUSE THIS TYPE OF BUILDING IS NOT MENTIONED IN SECTION 903.
- A STANDPIPE SYSTEM IS NOT REQUIRED (SECTIONS 905.3.1, 905.3.2).
- PROVIDE ONE PORTABLE FIRE EXTINGUISHERS (5A-10B,C) AT EXIT DOOR, LOCATED, AND MOUNTED AS DIRECTED BY THE LOCAL FIRE MARSHAL HAVING JURISDICTION(906).
- OCCUPANCY RATE = 1,120 SQ. (see table) = 43 OCCUPANTS (TABLE 1004.1.2).
- A FIRE ALARM SYSTEM, IS NOT REQUIRED IN GROUP "B" BUILDINGS (907.2) BECAUSE THE OCCUPANT LOAD IS 43 <100 ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.
- A EMERGENCY ALARM SYSTEM IS NOT REQUIRED BECAUSE THIS BUILDING IS NOT A GROUP "H" OCCUPANCY (SECTION 908).
- A SMOKE CONTROL SYSTEM IS NOT REQUIRED BY ANY SECTION OF THIS CODE.
- SEE THE MECHANICAL PART OF THE CONTRACT DOCUMENTS FOR ANY REQUIREMENTS FOR SMOKE DETECTION, SMOKE CONTROL DAMPERS, DUCTS, ETC. (SECTION 909).
- ONE EXIT (< 2 PROVIDED) IS ALLOWED WITH UP TO 49 to > 43 OCCUPANTS (TABLE 1006.2.1).
- THE MAXIMUM COMMON PATH OF EGRESS TRAVEL IN A NON-SPRINKLED BUILDING IS LIMITED TO 75' > 24' +/-.
- EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS, THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS (1013.1 Exception 1).
- THE MAIN BUILDING HAS 2 EXITS, SO TABLE 10.06.2.1 DOES NOT APPLY.
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE (SEE FLOOR PLAN) = 24'x 200' (TABLE 1017.2).

ADA NOTES:
1) SIGNS TO COMPLY WITH ICC/ANSI A117.1- 2009, THE AMERICAN NATIONAL STANDARD FOR "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".
2) ALL OPERABLE PARTS, SHALL OPERATE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
3) ALL LAVATORIES DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES TO BE BETWEEN 34" & 48" HIGH ABOVE FINISHED FLOOR AND OPERATABLE PARTS SHALL NOT REQUIRE TIGHT GRASPING, PINCHING,OR TWISTING OF THE WRIST TO OPERATE. SINKS TO HAVE PADDLE HANDLES.
4) ALL INTERIOR FLOORS, AND EXTERIOR LANDINGS WITHIN 5 FEET (5'-0") OF AN EXTERIOR DOOR,TO SLOPE NO MORE THAN 1:48 WITHOUT THE ARCHITECT'S WRITTEN CONSENT.

- A. Occupancy or Occupancies: B Business
- B. Physical Properties:
- Square Footage of Building: 1120 SqFt
 - Square Footage of Each Tenant Space: 1120 SqFt
 - Number of Stories Above Grade: 1 Story
 - Wind Speed: 160 mph
 - Exposure Class: "C open
 - Separation Distance: > 30'
 - Height: 12'-7"
 - Elevation: 12'-7"
 - Feet Above Grade: 0.67'
 - Flood Hazard Determination: ZONE "X"
- C. Type of Construction: V Wood
- Area Increase: N/A
 - Height Increase: N/A
 - Allowed Area Per Floor: 9000 SqFt
 - Allowed Number of Stories: 2
 - Protected (A) (B): (B)
- D. Occupancy Requirements:
- Occupant Load:
 - Assembly (616 SqFt/15): 42
 - Storage (365 SqFt/500): 1
 - Total Occupant Load: 43
 - Number of Exits: 2
 - Means of Egress Travel: 29' (a.) Life Safety Plan: YES
- E. Fire Protection of Structure:
- Sprinkled: NO
 - Fire Alarm: NO
- F. Tenant Separation: N/A
- G. Table 403.1 Minimum Required Plumbing Fixtures:
- Water Closets: (a.) Male 1 (b.) Female 1
 - Lavatories: (a.) Male 1 (b.) Female 1
 - Bathtubs/Showers: N/A
 - Drinking Fountain: N/A AT SITE
 - Other: N/A

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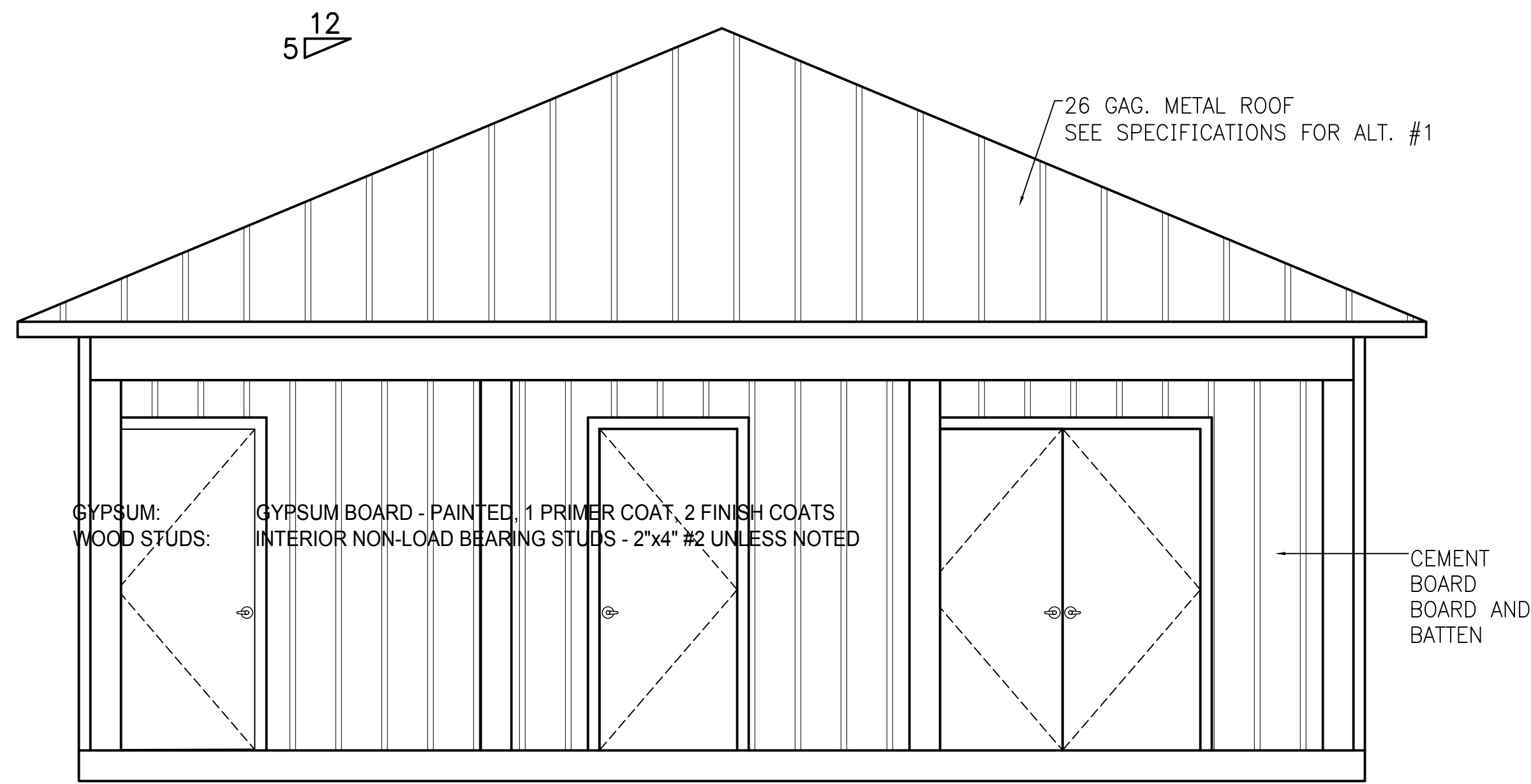
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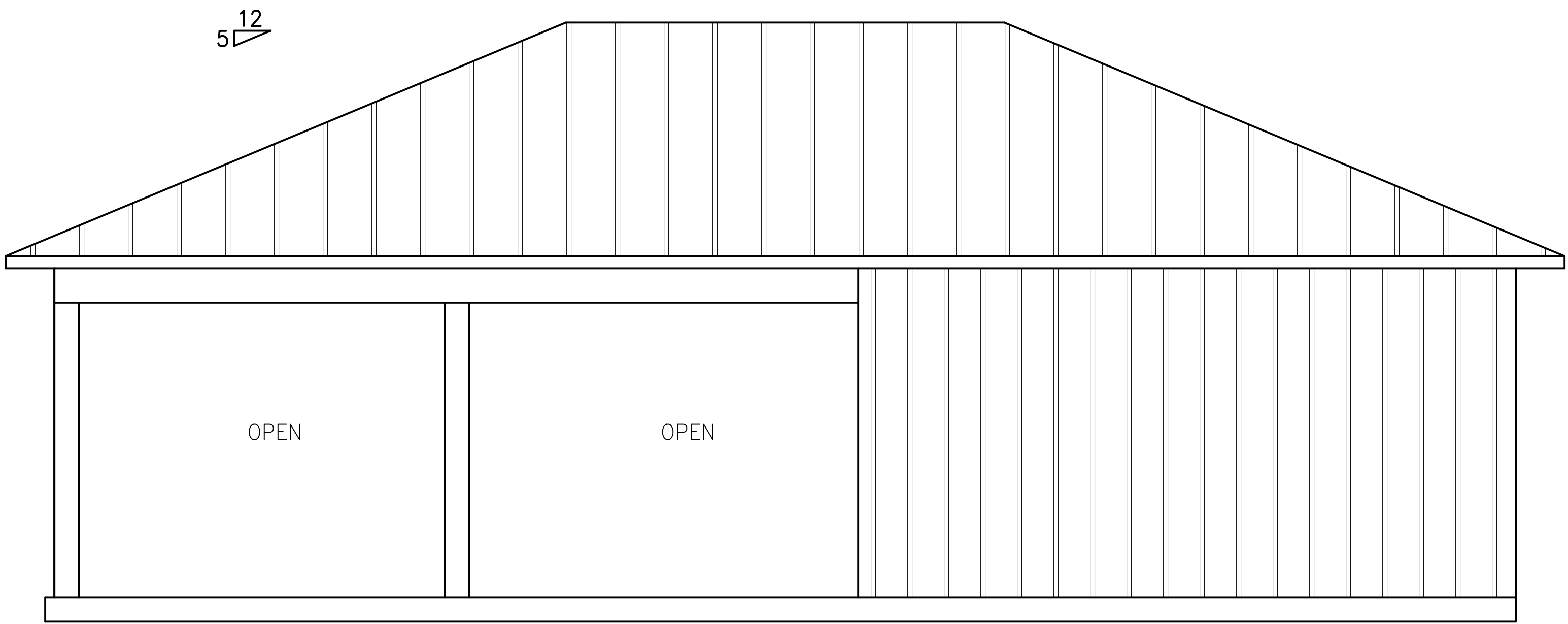
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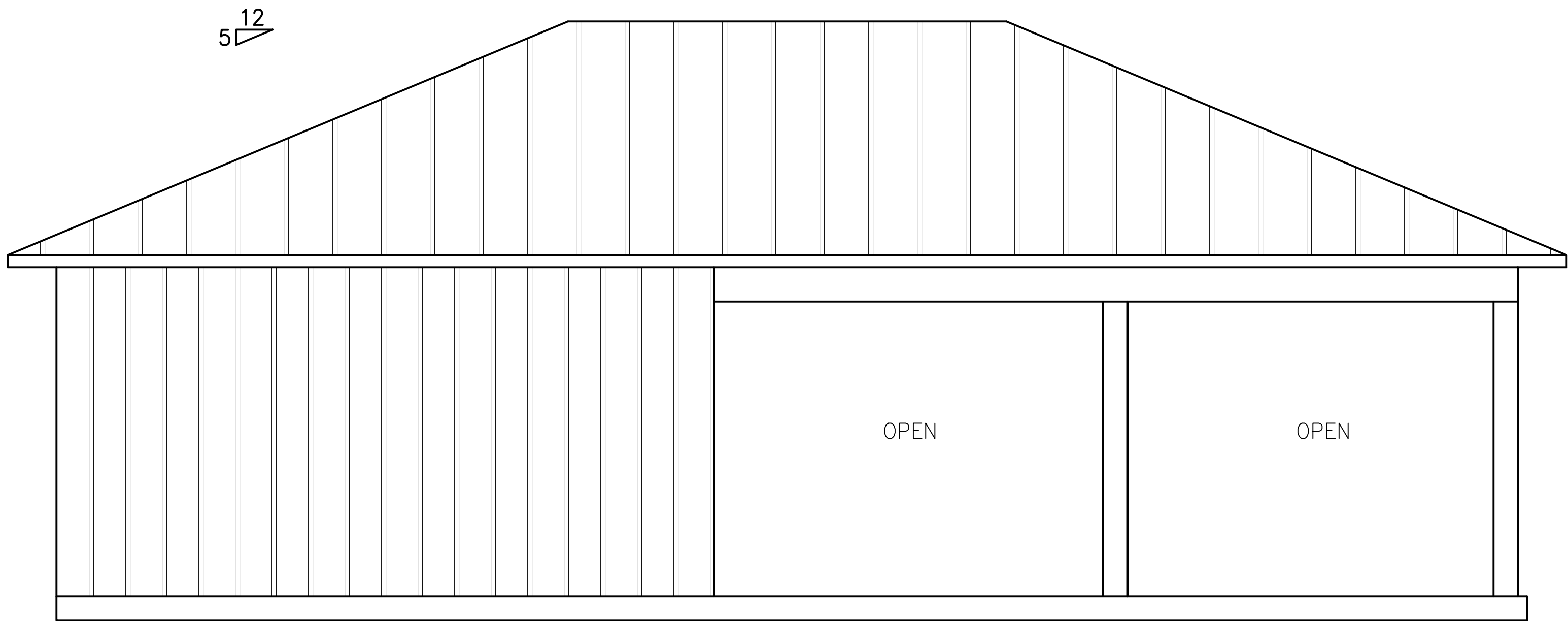
SOUTH ELEVATION

SCALE: 3/8" = 1' - 0"



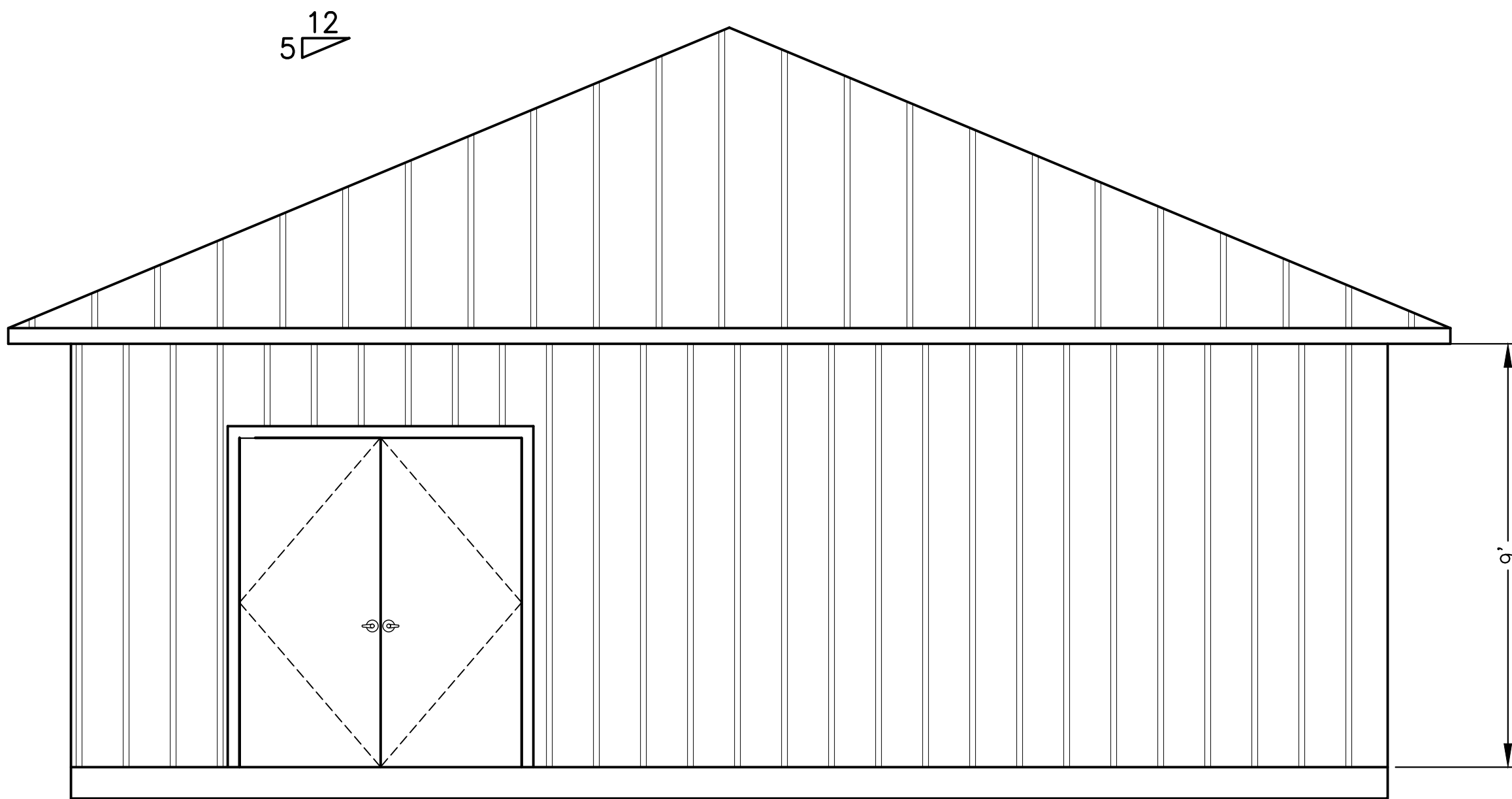
EAST ELEVATION

SCALE: 3/8" = 1' - 0"



WEST ELEVATION

SCALE: 3/8" = 1' - 0"

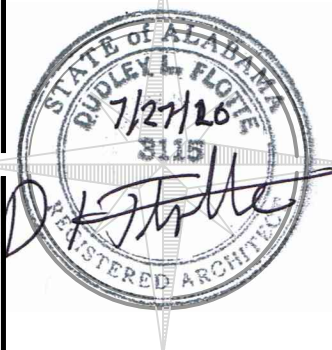


NORTH ELEVATION

SCALE: 3/8" = 1' - 0"

ELEVATIONS
SCALE: 3/8" = 1'-0"

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GENERAL STRUCTURAL NOTES

STRUCTURAL WOOD NOTES:

1. PROVIDE 5/8" STRUCTURAL PLYWOOD ROOF DECKING AS PER SPECIFICATIONS. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA) AND SHALL MET THE REQUIREMENTS OF THE MOST CURRENT APA PRODUCT STANDARD PS 1. APPLICATION AND NAILING OF PLYWOOD PANEL SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION UNLESS REQUIREMENTS NOTED ON THESE CONTRACT DOCUMENTS ARE MORE STRICT.
2. WALL SHEATHING SHALL BE 1/2". EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF THE MOST CURRENT APA PRODUCT STANDARD PS 1. APPLICATION AND NAILING OF PLYWOOD PANELS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER, UNLESS REQUIREMENTS NOTED ON THESE CONTRACT DOCUMENTS ARE MORE STRICT.
3. PLYWOOD WALL PANELS SHALL BE ORIENTED WITH FACE GRAIN PERPENDICULAR TO SUPPORT STUD.
4. PLYWOOD ROOF PANELS SHALL BE ORIENTED WITH FACE GRAIN PERPENDICULAR TO SUPPORT TRUSSES.
5. WOOD CONSTRUCTION, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE "CONVENTIONAL CONSTRUCTION PROVISIONS," INTERNATIONAL BUILDING CODE. ALL NAILING SHALL CONFORM TO TABLE 2304.9.1 "NAILING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE, UNLESS OTHER REQUIREMENTS NOTED ON THE DRAWINGS ARE MORE STRICT.
6. FOUNDATION PLATES FOR LOAD BEARING WALLS ON CONCRETE OR MASONRY WALLS SHALL BE PRESSURE TREATED LUMBER, #2 GRADE MINIMUM. SILLS SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH 5/8" X 9" ANCHOR BOLTS SPACED 24" O.C. MAXIMUM. THERE SHALL BE A MINIMUM OF THREE BOLTS PER PIECE WITH ONE BOLT LOCATED WITHIN 8" OF EACH END OF EACH PIECE. THERE SHALL BE NO SILL SPLICE UNDER ANY POST OR MULLION.
7. POSTS AND BEAMS CONSTRUCTED OF MULTIPLE LAMINATED VENEER LUMBER MEMBERS SHALL BE FASTENED TOGETHER ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
8. ALL JOISTS, ROOF BEAMS AND GIRDERS SHALL HAVE FULL HORIZONTAL BEARING OF THE MEMBER OVER SUPPORT UNLESS OTHERWISE SHOWN. DO NOT OVERCUT.
9. PLYWOOD USED ON EXTERIOR BUILDING AND FORMS SHALL BE EXTERIOR GRADE.
10. USE NON--CORROSIVE, NON--STAINING ROUGH HARDWARE FOR EXTERIOR APPLICATIONS.
11. ALL BEAMS AND JOIST NOT BEARING ON SUPPORTING MEMBERS SHALL BE CONNECTED WITH "SIMPSON" HANGERS OR EQUIVALENT.
12. BOTTOM PLATES OF ALL FIRST FLOOR NON--LOAD BEARING PARTITIONS SHALL BE ANCHORED USING #8 CONCRETE NAILS AT 32" O.C. (OR EQUAL).
13. ALL LAG SCREWS SHALL BE PRE--DRILLED AS REQUIRED BY PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (AF & PA, 2012), PART 9.
14. ALL BEARING STUD WALLS AND SHEAR WALLS SHALL HAVE A CONTINUOUS DOUBLE TOP PLATE LAP SPLICE TOP PLATES MINIMUM 4'-0". FASTEN TOGETHER WITH MINIMUM (2) ROWS OF 10d NAILS AT 4" O.C., STAGGERED AT LAP SPLICE. FASTEN REMAINING TOP PLATES TOGETHER WITH MINIMUM (2) ROWS OF 10d NAILS AT 8" O.C., STAGGERED.
15. BOLT HOLES SHALL BE MAXIMUM 1/16" LARGER THAN BOLT HOLE DIAMETER. BOLTS SHALL NOT BE FORCIBLY DRIVEN. BOLT HEADS AND NUTS SHALL NOT BE COUNTERSUNK WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
16. TENSION ALL BOLTS 1/4 TURN BEYOND SNUG--TIGHT. SPOIL THREADS TO PREVENT BACK OFF OF NUT AFTER INSTALLATION.
17. PROVIDE 5/32" DIAMETER LEAD HOLES THROUGH FIRST LAMINATION FOR ALL NAILS LARGER THAN 16d.
18. ALL WOOD CONNECTORS SHALL BE BY "SIMPSON STRONG--TIE" OR EQUIVALENT. ALL JOISTS AND BEAMS NOT BEARING ON A SUPPORTING MEMBER SHALL BE FRAMED WITH AN APPROPRIATE WOOD CONNECTOR.
19. WOOD TRUSSES:

- A. FABRICATED IN ACCORDANCE WITH ANSI/TPI--1 REQUIREMENTS.
- B. WOOD TRUSS DESIGN TO BE CERTIFIED BY A PROFESSIONAL ENGINEER FOR REVIEW BY THE STRUCTURAL ENGINEER. CALCULATIONS AND SHOP DRAWINGS TO INCLUDE TRUSS LAYOUT AND DESIGN FOR EACH LOAD AND SPAN CONDITION. THE TRUSS DESIGN SHALL INCLUDE TRUSS CONFIGURATION, WOOD GRADE, LOADING MEMBER STRESSES, LIVELOAD DEFLECTION, DEAD LOAD DEFLECTION AND CAMBER REQUIREMENTS.
- C. ROOF TRUSSES SHALL BE LIMITED TO LIVE LOAD DEFLECTION OF L/240 OF THE SPAN AND SHALL BE CAMBERED FOR DEAD LOAD DEFLECTION.
- D. FLOOR TRUSSES SHALL BE LIMITED TO A LIVELOAD DEFLECTION OF L/360 OF THE SPAN AND SHALL BE CAMBERED FOR A DEAD LOAD DEFLECTION.
- E. LATERALLY BRACE WOOD TRUSSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON THE DRAWINGS.
- F. PROVIDE "SIMPSON STRONG--TIE" H10A OR EQUIVALENT HURRICANE HOLDDOWN ANCHORS AT EACH ROOF TRUSS BEARING POINT. UNLESS OTHERWISE NOTED.

DIMENSIONAL LUMBER NOTES:

1. DIMENSION LUMBER TO BE NORTHERN SPF NO. 2 (OR BETTER)
2. ALL MEMBER SIZES GIVEN ON PLAN ARE NOMINAL DIMENSIONS.
3. WOOD LINTELS SHALL HAVE A FULL 3" LENGTH OF BEARING AT EACH END UNLESS OTHERWISE NOTED.
4. ALL NAILING SHALL CONFORM TO IBC TABLE 2304.9.1 "FASTENING SCHEDULE" UNLESS OTHERWISE NOTED ON THE PLANS.
5. SPACING OF BRIDGING FOR FLOOR AND ROOF JOISTS SHALL NOT EXCEED 8' OR 6 TIMES THE NOMINAL JOIST DEPTH (WHICHEVER IS GREATER).
6. DOUBLE ALL JOISTS UNDER PARALLEL PARTITIONS.
7. ALL WOOD CONNECTORS SHALL BE BY "SIMPSON STRONG--TIE" OR EQUIVALENT. ALL JOISTS AND BEAMS NOT BEARING ON A SUPPORTING MEMBER SHALL BE FRAMED WITH AN APPROPRIATE WOOD CONNECTOR.
8. WOOD STUD BEARING WALLS SHALL HAVE AT LEAST ONE 8" COURSE OF CONCRETE BLOCK BETWEEN THE BOTTOM OF THE SILL PLATE AND THE TOP OF THE FOOTING.
9. WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, ETC.), UNLESS NOTED OTHERWISE.
10. PROVIDE SOLID BLOCKING BELOW ALL JAMB/TRIMMER/CRIPPLE STUDS (TYPICAL AT ALL FLOORS)
11. ALL FOUNDATION PLATES, SILLS AND SLEEPERS ON CONCRETE SLAB, WHICH IS IN DIRECT CONTACT WITH EARTH, AND SILLS WHICH REST ON CONCRETE OR MASONRY FOUNDATION WALLS, SHALL BE TREATED WOOD.
12. FOR ALL WOOD TREATED WITH PRESERVATIVES, CONNECTORS AND FASTENERS MUST BE COATED WITH ONE OF THE FOLLOWING:
- a. HOT DIPPED GALVANIZED PER ASTM A123 FOR CONNECTORS AND ASTM 153 FOR FASTENERS.
- b. MECHANICALLY GALVANIZED PER ASTM 695, CLASS 55 OR GREATER.
- c. TRIPLE ZINC G185 HDG PER ASTM A653 OR EQUAL.

GENERAL NOTES

ALL FOUNDATION CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, THE REQUIREMENTS OF THE LATEST A.C.I AND P.T.I. CODES, AND ALL LOCAL BUILDING CODES.

SITE WORK

1. SITE PREPARATION BENEATH THE FOUNDATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS AND SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
- A. STRIP ALL VEGETATION DOWN TO NATURAL SOIL. REMOVE ALL TREES WITHIN CLOSE PROXIMITY TO THE FOUNDATION.
- B. PROOF ROLL EXPOSED SUB--GRADE BACK FILL AND COMPACT THE TREE HOLES OR SOFT POCKETS WITH MATERIAL SIMILAR TO SITE MATERIALS.
- C. BRING SUB--GRADE TO REQUIRED ELEVATION WITH SELECT FILL MATERIAL. SELECT FILL SHALL BE SANDY CLAY OR CLAYEY--SAND, FREE FROM ORGANIC MATERIAL, HAVING A PLASTICITY INDEX OF GREATER THAN 7, BUT NOT MORE THAN 20.
- D. STRUCTURAL FILL SHALL BE PLACED IN MAXIMUM LIFTS OF 8" AND COMPACTED TO 95% OF ITS DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR). WHERE LARGE DEPTHS OF FILL OCCUR, FIELD DENSITY TEST IS REQUIRED FOR EACH LIFT LOCATED AT OR BELOW THE BOTTOM OF THE

FOUNDATION.

1. ALL FOOTINGS AND FOUNDATIONS ARE DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. FOOTINGS ARE TO BEAR ON UNDISTURBED SOIL OR SATISFACTORY, COMPACTED STRUCTURAL FILL AS APPROVED BY THE GEOTECHNICAL ENGINEER.
2. CONTRACTOR TO INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING, AND ADVISE ENGINEER OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.
3. THE LEVELING BED SHALL BE FIRM, STABLE BANK SAND OR OTHER CLEAN GRANULAR MATERIAL. PROVIDE 4" OF CRUSHED STONE OR SAND AND POLYETHYLENE VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE.
4. INITIAL SITE GRADING SHALL BE COMPLETED PRIOR TO SETTING FORMS. FINAL GRADING SHALL BE SLOPED AWAY FROM THE FOUNDATION 1 INCH PER 1 FOOT FOR THE FIRST 3 FEET SUCH THAT POSITIVE DRAINAGE AWAY FROM THE FOUNDATION IS ASSURED BEFORE, DURING, AND AFTER CONSTRUCTION.
5. DURING CONSTRUCTION, A DRAINAGE TRENCH SHALL BE FORMED SUCH THAT ANY WATER THAT INTRUDES INTO THE FOUNDATION MAKE--UP WILL IMMEDIATELY DRAIN OUT OF THE BOTTOM OF THE BEAMS.
6. IF THE GEOTECHNICAL REPORT CONTAINING FOUNDATION DESIGN RECOMMENDATIONS WAS SUPPLIED FOR THE PROJECT, THEN IT SHALL CONTROL IF A CONFLICT SHALL ARISE BETWEEN THESE MINIMUM REQUIREMENTS AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
7. ALL UNDER SLAB AREAS TO BE TREATED FOR TERMITES BY A LICENSED APPLICATOR. OWNER TO RECEIVE A RENEWABLE BOND.

SPECIAL CONSIDERATIONS

1. TREES OR OTHER VEGETATION TALLER THAN 6 FT. OR OF THE TYPE THAT REQUIRES EXCESSIVE AMOUNTS OF WATER SHOULD NOT BE PLANTED WITHIN 20 FT. OF THE FOUNDATION.
2. EXISTING TREES WITHIN 20'-0" OF THE FOUNDATION MUST UTILIZE A PROVEN ROOT CONTROL METHOD SUCH AS A ROOT BARRIER.
3. EXCAVATIONS FOR SWIMMING POOLS SHALL NOT BE PLACED CLOSER THAN 10FT. FROM THE FOUNDATION WITHOUT APPROVAL FROM THE ENGINEER.
4. LANDSCAPING SHOULD BE PLANNED SUCH THAT ADEQUATE MOISTURE CAN REACH AND BE DRAINED FROM AROUND THE FOUNDATION.

CONCRETE

1. CONCRETE SHALL BE SUPPLIED AND CONSTRUCTED IN ACCORDANCE WITH ACI--318 (LATEST EDITION), AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 psi AT 28 DAYS.
2. CONCRETE SHALL BE TYPE I OR TYPE II UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT. USE NORMAL WEIGHT AGGREGATES HAVING A MAXIMUM AGGREGATE SIZE OF 1 1/2 IN. THE SLUMP SHALL NOT EXCEED 6 IN. UNLESS SPECIFIC HIGH RANGE WATER REDUCERS OR OTHER ADDITIVES ARE USED.
3. CALCIUM CHLORIDE OR OTHER MATERIALS CONTAINING CHLORIDES IN ANY FORM SHALL NOT BE USED. WHERE FLY ASH IS USED, ONLY TYPE "C" FLY ASH SHALL BE ACCEPTED.
4. WATER SHALL NOT BE ADDED TO CONCRETE AT THE JOB SITE UNLESS APPROVED BY THE ENGINEER. IF MORE WORKABILITY IS NEEDED, THE CONTRACTOR SHALL SPECIFY REQUIRED SLUMP ON THE JOB ORDER. THE CONCRETE PLANT CAN INCREASE WORKABILITY BY ADDING UP TO 5% AIR ENTRAINMENT, ADDITIONAL CEMENT OR ADMIXTURES.
5. CONCRETE SHALL NOT BE PLACED AT TEMPERATURES BELOW 30 DEGREES FAHRENHEIT, IN RAINY WEATHER, OR IN OTHER ADVERSE WEATHER CONDITIONS.
6. A LAPPED AND TAPED 6 MIL POLYETHYLENE VAPOR RETARDER SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION AND MAINTENANCE MANUAL FOR POST--TENSIONED SLAB--ON--GROUND FOUNDATIONS, LATEST EDITION .
8. FORMS SHALL BE STRIPPED NOT LESS THAN 24 HOURS AND NOT MORE THAN 6 DAYS AFTER PLACEMENT OF CONCRETE.
9. CURING OF CONCRETE FOUNDATION SLAB SURFACE PER ACI--302.1R IS RECOMMENDED TO REDUCE THE PROBABILITY OF CURING OR SHRINKAGE CRACKS.
10. BUILDER SHALL VERIFY ALL DIMENSIONS, DROPS, OFFSETS, BRICK LEDGES, INSERTS, AND OPENINGS WITH ARCHITECTURAL DRAWINGS.
11. THE WOOD SOLE PLATE AND WOOD SILL PLATE AT EXTERIOR WALLS SHALL BE ANCHORED TO THE FOUNDATION WITH 5/8" DIA. BY 10" LONG ANCHOR BOLTS WITH 7" MINIMUM EMBEDMENT. ANCHOR BOLTS SHALL BE SPACED AT A MAXIMUM OF 32" O.C. FOR 1 STORY STRUCTURES AND 24" O.C. FOR 2 STORY STRUCTURES, THERE SHALL BE A MINIMUM OF 2 BOLTS PER PLATE SECTION WITH 1 BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION OR BY EQUIVALENT QUANTITY OF FOUNDATION ANCHORS.
12. COLD WEATHER CONCRETING PRECAUTIONS AS SPECIFIED IN ACI STANDARD 306R SHALL BE USED WHEN PLACING CONCRETE DURING COLD WEATHER PERIODS IS DESCRIBED IN THE ACI STANDARDS.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE 60 KSI, BE IN ACCORDANCE WITH ASTM A615, HAVE DEFORMATIONS IN ACCORDANCE WITH ASTM A305, AND SHALL BE DETAILED IN ACCORDANCE WITH ACI--318 (LATEST EDITION).
2. PROVIDE CONCRETE COVERAGE OF REINFORCEMENT AS FOLLOWS. (PER ACI 315). REBAR TO BE SUPPORTED BY APPROVED CHAIRS.
- FOOTINGS: 3" BOTTOM & SIDES, 1--1/2" TOP
- 2" FOR FOUR INCH SLABS ON GRADE
- CONCRETE SURFACE EXPOSED TO THE WEATHER OR AGAINST WHICH BACKFILL WILL BE PLACED:
- 2" FOR #6 BARS AND LARGER
- 1--1/2" FOR #5 BARS AND SMALLER
3. WELDED WIRE FABRIC SHALL BE 6x6 -- W2.9 WWF (6 GAGE) IN ACCORDANCE WITH ASTM A185, AND SHALL BE PLACED IN ACCORDANCE WITH PLANS AND DETAILS.
4. IF SPLICING IS NECESSARY, CONTINUOUS REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 TIMES THE DIAMETER OF THE BAR.
5. PROVIDE 2--#5's x 5'-0" AT ALL RE--ENTRANT CORNERS OF THE FOUNDATION. (DIAGONAL, SEE FOUNDATION PLAN).

FRAMING NOTES

- 1A. ALL LOAD BEARING WALL STUDS SHALL BE STUD GRADE S.Y.P. @ 16" O.C., EXCEPT UNDER EXCEPTIONS AS NOTED IN IRC SECTION R602.3.3. ALL FIRST FLOOR MUD SILLS SHALL BE TREATED LUMBER.
- 1B. ALL NON--LOAD BEARING WALL STUDS CAN BE STUD GRADE S.Y.P. @ 24" O.C.

2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A--36. STEEL COLUMNS SHALL HAVE MIN. 1/2" CAP AND BASE PLATES WITH MIN. 2--5/8" DIA. ANCHORED BOLTS EMBEDDED MIN. 4--1/2" INTO CONCRETE. THE STEEL ANGLE LINTEL SCHEDULE TO SUPPORT BRICK VENEER IS AS FOLLOWS:

| MAXIMUM SPAN | MINIMUM SIZE | MINIMUM BEARING |
|--------------|-------------------|-----------------|
| 6'-0" | L3 X 3 X 5/16 | 6" |
| 7'-0" | L3 X 3 X 5/16 | 6" |
| 8'-0" | L5 X 3 X 3/8 | 6" |
| 9'-0" | L5 X 3 X 3/8 | 6" |
| 10'-0" | L6 X 4 X 3/8 | 8" |
| 16'-0" | CHECK W/ ENGINEER | 8" |

LINTELS ARE DESIGNED TO SUPPORT A DESIGN LOAD OF 27 PSF (2--3/4" BED--DEPTH FOR COMMON BRICK) BASED ON MANUFACTURER'S SPECIFICATIONS.

3. ROOF FRAMING:

THE MAXIMUM UNSUPPORTED SPAN FOR RAFTERS (10 PSF DEAD LOAD, 20 PSF LIVE LOAD) NO CEILING: DEFLECTION L/Δ = 180

| | | | |
|--|---|--|---|
| 2"x6"NO. 2 S.Y.P.: 24" O.C.-- 11'-0" 19.2" O.C.-- 12'-3" 16" O.C.-- 13'-6" 12" O.C.-- 15'-7" | 2"x8" NO. 2 SYP 24" O.C.-- 13'-11" 19.2" O.C.-- 15'-7" 16" O.C. -- 17'-1" 12" O.C.-- 19'-8" | 2"x10" NO. 2 SYP 24" O.C.-- 16'-6" 19.2" O.C.-- 18'-6" 16" O.C.-- 20'-3" 12" O.C.-- 23'-5" | 2"x12" NO. 2 SYP 24" O.C.-- 19'-6" 19.2" O.C.-- 21'-9" 16" O.C.-- 23'-10" 12" O.C.-- >26' |
|--|---|--|---|

THE MAXIMUM UNSUPPORTED SPAN FOR RAFTERS (10 PSF DEAD LOAD, 20 PSF LIVE LOAD) CEILING: DEFLECTION L/Δ = 240

| | | | |
|--|--|---|---|
| 2"x6"NO. 2 S.Y.P.: 24" O.C.-- 11'-0" 19.2" O.C.-- 12'-3" 16" O.C.-- 13'-5" 12" O.C.-- 14'-9" | 2"x8" NO. 2 SYP 24" O.C.-- 13'-11" 19.2" O.C.-- 15'-7" 16" O.C.-- 17'-1" 12" O.C.-- 19'-6" | 2"x10" NO. 2 SYP 24" O.C.-- 16'-6" 19.2" O.C.-- 18'-6" 16" O.C.-- 20'-3" 12" O.C.-- 24'-10" | 2"x12" NO. 2 SYP 24" O.C.-- 19'-6" 19.2" O.C.-- 21'-9" 16" O.C.-- 23'-10" 12" O.C.-- >26' |
|--|--|---|---|

PURLINS SHALL BE SIZED NO LESS THAN THE RAFTER. PURLINS MUST BE CONTINUOUS AND SUPPORTED BY 2x4 STRUTS INSTALLED TO BEARING WALLS OR STRUCTURAL MEMBERS AT A SLOPE NOT LESS THAN 45 DEGREES FROM THE HORIZONTAL. THE STRUTS SHALL BE SPACED NOT MORE THAN 4'-0" O.C. AND THE UNBRACED LENGTH OF STRUTS SHALL NOT EXCEED 8'-0". PROVIDE BLOCKING OR CLEATS AT STRUT--TO--RAFTER CONNECTION LOCATIONS, SECURE CLEAT TO STRUT WITH MIN. OF (8) 12d NAILS.

4. THIS RAFTER LAYOUT IS DESIGNED TO SUPPORT COMPOSITION ROOF SHINGLES ONLY UNLESS SPECIFIED OTHERWISE ON ROOF PLAN. PLEASE CONSULT ENGINEER IF ANY OTHER TYPE OF ROOF COVERING IS TO BE USED.

5. ROOF LIVE LOAD = 20 PSF.
- ROOF DEAD LOAD:
- COMPOSITION SHINGLE ROOF = 10 PSF TOTAL
- METAL ROOF = 10 PSF TOTAL

6. ROOF DECKING SHALL BE 5/8" EXPOSURE 1 (CDX) OR O.S.B. APA RATED SHEATHING (24/0). (U.N.O.) FACE GRAIN TO BE 90 DEGREES TO THE SUPPORTS. FASTEN WITH 8D RING SHANK NAILS:
- ZONE 1: 3" O.C. EDGE
- ZONE 2: 3" O.C. EDGE
- ZONE 3: 3" O.C. EDGE
- 6" O.C. FIELD SPACING.

7. ALL JOISTS FRAMING TO FLUSH BEAMS SHALL BE SUPPORTED BY APPROVED METAL JOIST HANGERS (U.N.O.)

8. ALL BEAMS FRAMING TO WALLS ARE TO BE SUPPORTED BY MIN. OF (2) 2x4 OR (2) 2x6 STUDS (ACTUAL NUMBER OF STUDS EQUAL WIDTH OF BEAM, U.N.O.)

- 9A. LOAD BEARING HEADER SCHEDULE AS FOLLOWS (U.N.O.):

| MAXIMUM SPAN | SUPPORT | SUPPORT | SUPPORT |
|--------------|--------------|-----------------|-----------------|
| HEADER SIZES | ROOF/CEILING | ONE STORY ABOVE | TWO STORY ABOVE |
| 2--2x6 | 4'-2" | 3'-0" | 2'-4" |
| 2--2x8 | 5'-4" | 3'-10" | 3'-0" |
| 2--2x10 | 6'-6" | 4'-8" | 3'-8" |
| 2--2x12 | 7'-6" | 5'-5" | 4'-3" |

ALL HEADER MATERIAL TO BE NO. 2 GRADE SYP LUMBER

- 9B. LOAD BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NON--LOAD BEARING WALLS.

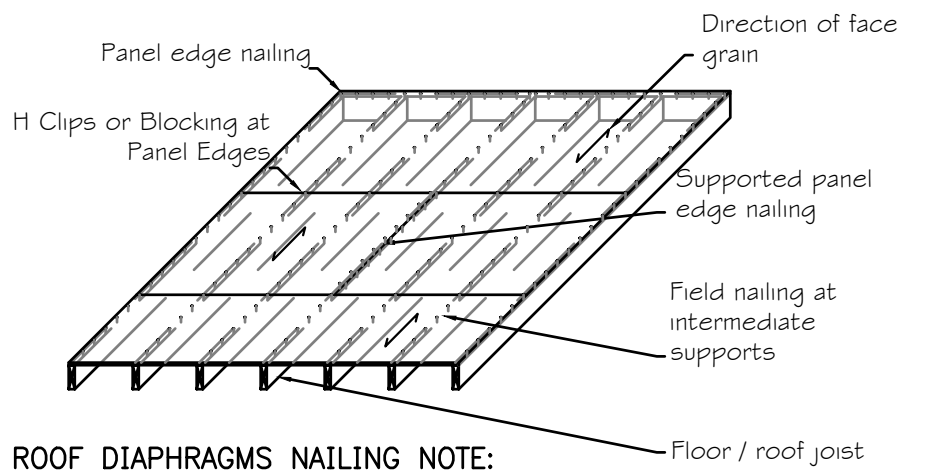
10. THE NUMBER AND SIZE OF NAILS USED TO CONNECT WOOD MEMBERS SHALL BE ACCORDING TO IRC TABLE R602.3(1). MULTIPLE STUDS SHALL BE SECURED WITH 10d NAILS SPACED 24" O.C. MULTIPLE JOISTS SHALL BE NAILED WITH 3--16d NAILS SPACED 12" O.C. THERE SHALL BE NO SPLICES.

11. STUD WALLS EXCEEDING 10' IN HEIGHT SHALL CONFORM TO IRC TABLE R602.3(1).

12. ALL EXTERIOR SHEATHING AND SHEARWALLS SHALL BE 15/32" MINIMUM APA. RATED, EXPOSURE 1 SHEATHING. MINIMUM SPAN RATING = 32/16. NAILED 8d GALV. COMMON (MIN.)
- EDGES: 4" O.C. FIELD: 6" O.C.
- **** EXCEPT WHERE NOTED ON THE DRAWING.

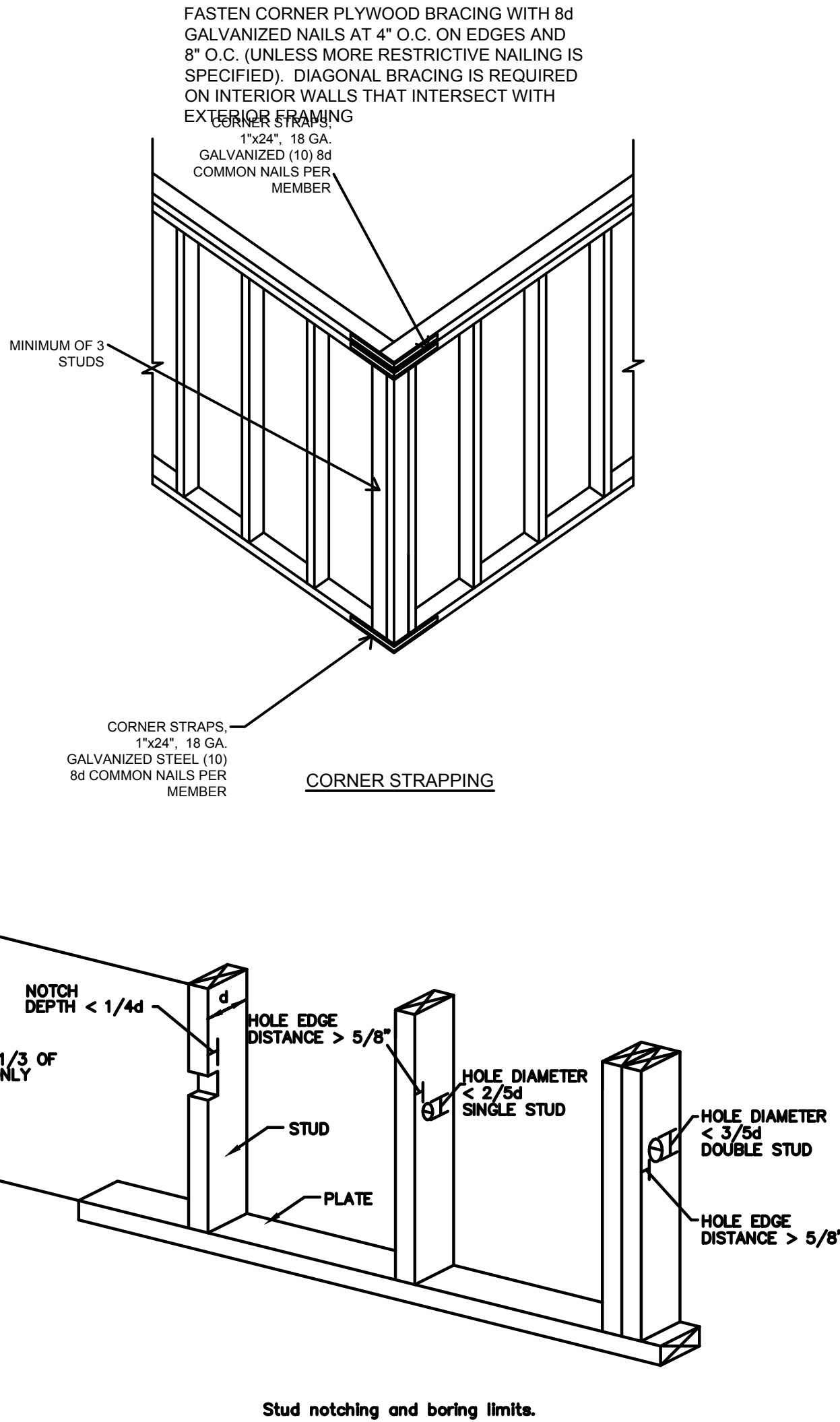
STRUCTURAL ENGINEERED WOOD BEAMS SHALL BE INSTALLED PER ENGINEER'S PLAN AND THE MANUFACTURER'S RECOMMENDATIONS.

MIN. SPECIFICATION: FY=2900 PSI, FV=290 PSI, E=2000 KSI.

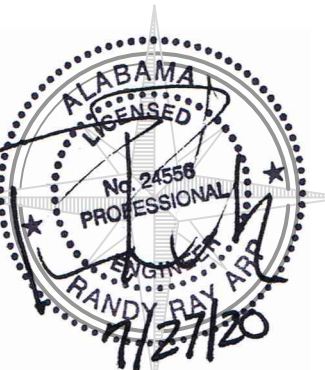


ROOF DIAPHRAGMS NAILING NOTE:

- 1-- ALL ROOFS SHALL BE SHEATHED WITH 19/32" THICK PLYWOOD PANELS.
- 2-- ALL HORIZONTAL AND INCLINED DECKING SHALL BE FRAMED AS WOOD STRUCTURAL PANEL DIAPHRAGMS AS INDICATED ABOVE.
- 3-- FASTENERS SHALL BE GALVANIZED 10d RING SHANK NAILS SPACED 4" O.C. AT PANEL EDGES AND GABLE ENDS, AND 6" O.C. IN THE FIELD OF THE PANEL.
- 4-- BLOCKING SHALL BE PROVIDED AT ALL PANEL EDGES AT A MINIMUM OF 6 FEET FROM END OF WALLS PERPENDICULAR TO TRUSSES / RAFTERS.
- 5-- ALL ROOF PANELS SHALL USE PLYWOOD SHEATHING CLIPS TO PROVIDE 1/8--INCH SPACE AT PANEL ENDS AND EDGES.



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CHECKED: RRA

REVISION:

SCALE:

N.T.S.

SHEET NO:

S01
OF
04

GENERAL NOTES
SCALE: N.T.S.

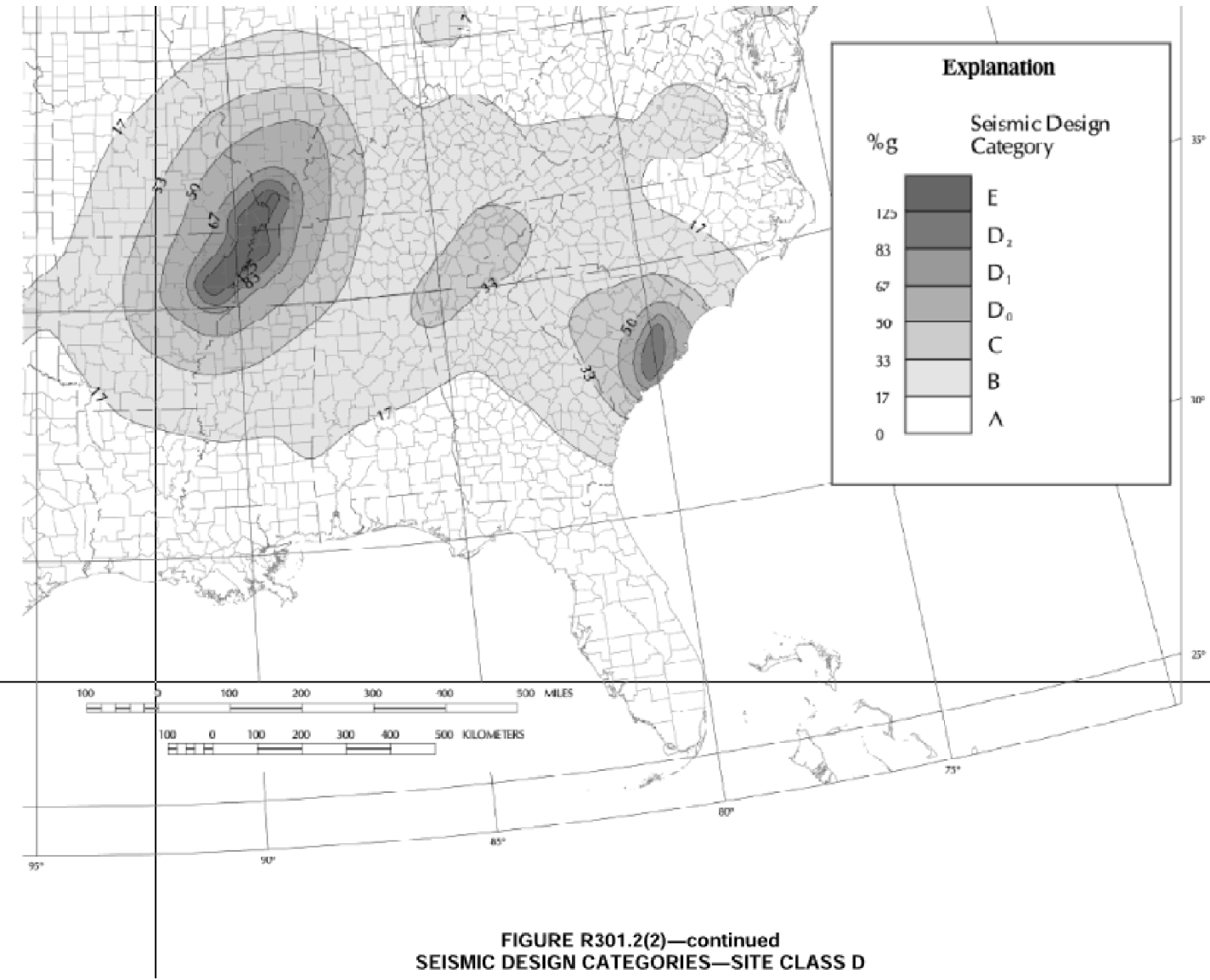
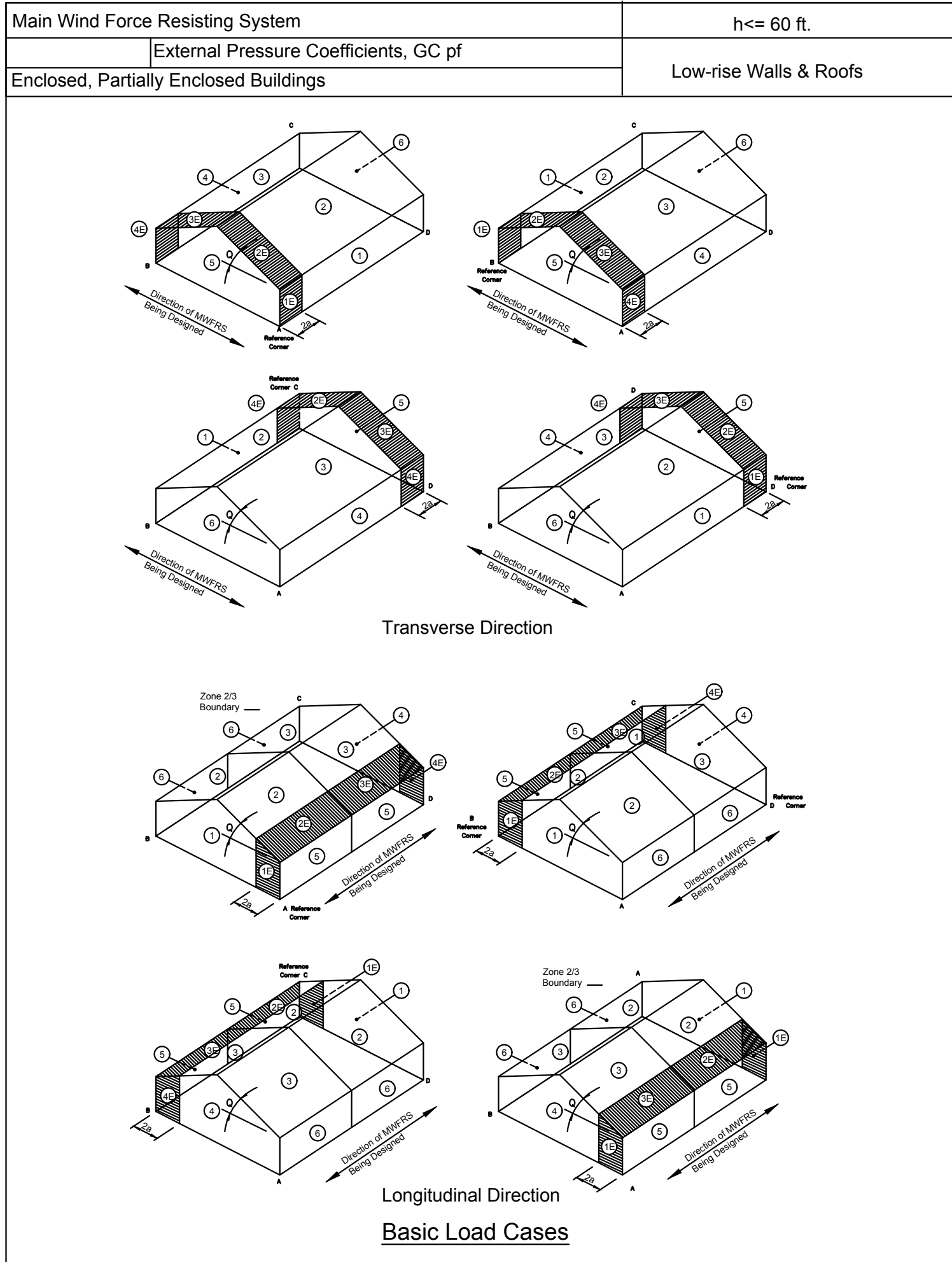


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

Reference Document ASCE7-16
Risk Category II
Site Class D - Default

| Basic Parameters | | |
|------------------------|-------|--|
| Name | Value | Description |
| SS | 0.086 | MCER ground motion (period=0.2s) |
| S1 | 0.056 | MCER ground motion (period=1.0s) |
| SMS | 0.137 | Site-modified spectral acceleration value |
| SM1 | 0.134 | Site-modified spectral acceleration value |
| SDS | 0.091 | Numeric seismic design value at 0.2s SA |
| SD1 | 0.089 | Numeric seismic design value at 1.0s SA |
| Additional Information | | |
| Name | Value | Description |
| SDC | B | Seismic design category |
| Fa | 1.6 | Site amplification factor at 0.2s |
| Fv | 2.4 | Site amplification factor at 1.0s |
| CRS | 0.955 | Coefficient of risk (0.2s) |
| CR1 | 0.891 | Coefficient of risk (1.0s) |
| PGA | 0.041 | MCEG peak ground acceleration |
| FPGA | 1.6 | Site amplification factor at PGA |
| PGAM | 0.066 | Site modified peak ground acceleration |
| TL | 12 | Long-period transition period (s) |
| SsRT | 0.086 | Probabilistic risk-targeted ground motion (0.2s) |
| SsUH | 0.09 | Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years) |
| SsD | 1.5 | Factored deterministic acceleration value (0.2s) |
| S1RT | 0.056 | Probabilistic risk-targeted ground motion (1.0s) |
| S1UH | 0.063 | Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years) |
| S1D | 0.6 | Factored deterministic acceleration value (1.0s) |
| PGAd | 0.5 | Factored deterministic acceleration value (PGA) |



LATERAL LOADS:

WINDLOAD DESIGN DATA:

DESIGN WIND PRESSURE COMPONENTS (ASCE 7-16)
MEAN ROOF HEIGHT = 13'-2"
ROOF ANGLE = (6/12) 26.6°
BASIC WIND SPEED = 160
CATEGORY = II
EXPOSURE CATEGORY = B URBAN
ENCLOSURE CATEGORY = ENCLOSED
VELOCITY PRESSURE (qh) = 38.87

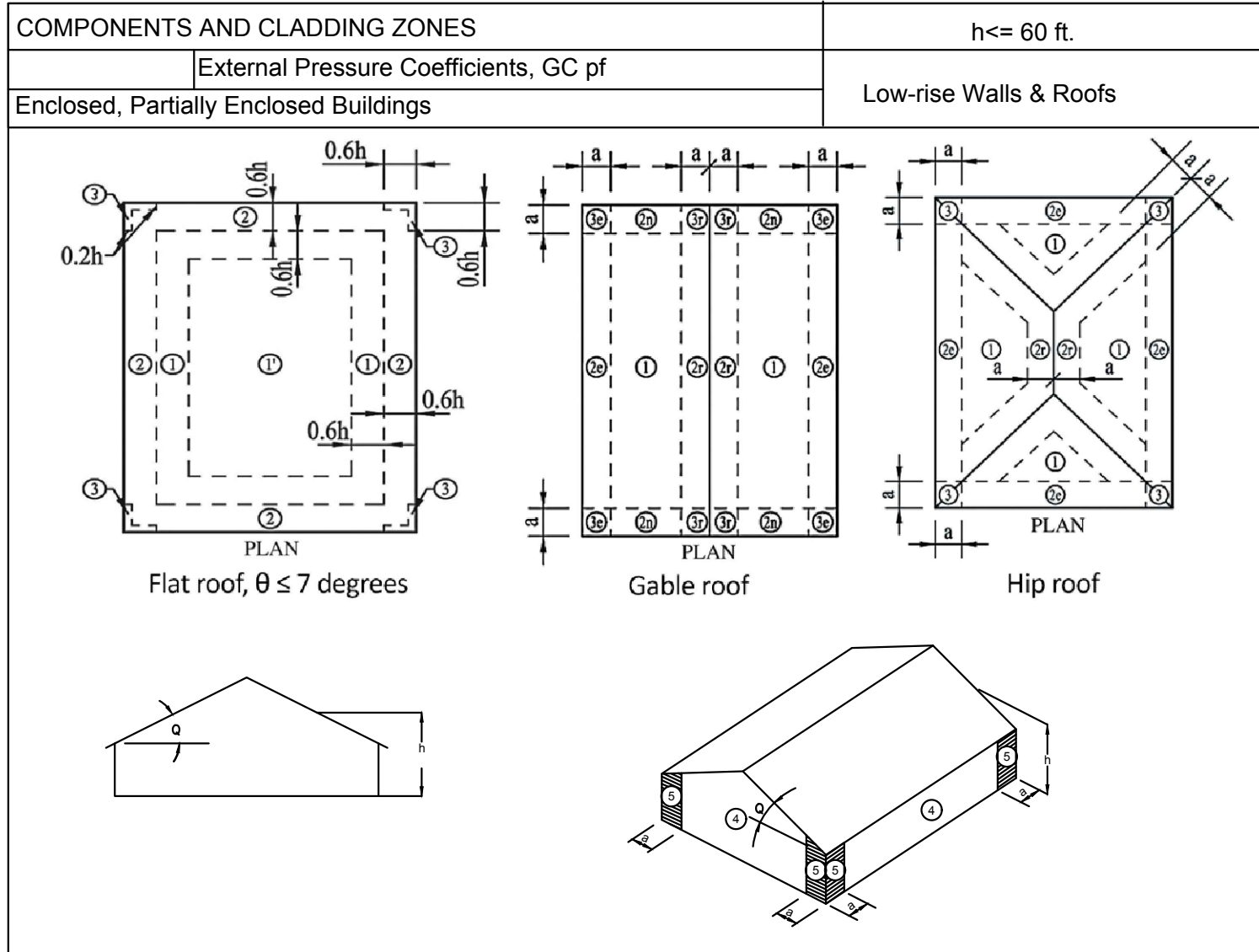
DOORS AND WINDOWS:

WINDOWS AND EXTERIOR DOORS SHALL BE CERTIFIED IN WRITING BY THE MANUFACTURER TO WITHSTAND THE WIND LOADS STIPULATED IN THE 2018 INTERNATIONAL BUILDING CODE 160 MPH - EXPOSURE "B"

Vult
Zone 4: +42/-46 psf
Zone 5: +42/-54 psf

Vasd
Zone 4: +30/-30 psf
Zone 5: +30/-35 psf

All Glazing shall be impact resistant.



Design Wind Pressure, p, (psf) Equation 28.3-1 (Load Case B)

| Building Surface | Cp | qh (psf) | GCpi + | GCpi - | p+ (psf) | p- (psf) |
|------------------|-------|----------|--------|--------|----------|----------|
| 1 | -0.45 | 38.87 | 0.18 | -0.18 | -24.49 | -10.50 |
| 2 | -0.69 | 38.87 | 0.18 | -0.18 | -33.82 | -19.83 |
| 3 | -0.37 | 38.87 | 0.18 | -0.18 | -21.38 | -7.39 |
| 4 | -0.45 | 38.87 | 0.18 | -0.18 | -24.49 | -10.50 |
| 5 | 0.40 | 38.87 | 0.18 | -0.18 | 8.55 | 22.55 |
| 6 | -0.29 | 38.87 | 0.18 | -0.18 | -18.27 | -4.28 |
| 1E | -0.48 | 38.87 | 0.18 | -0.18 | -25.66 | -11.66 |
| 2E | -1.07 | 38.87 | 0.18 | -0.18 | -48.59 | -34.60 |
| 3E | -0.53 | 38.87 | 0.18 | -0.18 | -27.60 | -13.61 |
| 4E | -0.48 | 38.87 | 0.18 | -0.18 | -25.66 | -11.66 |
| 5E | 0.61 | 38.87 | 0.18 | -0.18 | 16.72 | 30.71 |
| 6E | -0.43 | 38.87 | 0.18 | -0.18 | -23.71 | -9.72 |

p+ uses GCpi+ p- uses GCpi-

Design Wind Pressure for Overhang, p, Section 28.3.3. (Load Case B)

The design equation has been modified to $qh \cdot [(GCpf) - (\text{Underside GCpi})]$ for overhang pressures;

0.70 is used for Underside GCpi.

| Roof Zone | 2 | 2E |
|----------------|--------|--------|
| Pressure (psf) | -54.04 | -68.81 |

Main Wind Force Resisting System

Design Wind Pressure, p, Equation 30.3-1.

| Zone | qh (psf) | GCp+ | GCp- | GCpi+ | GCpi- | p1+ (psf) | p2+ (psf) | p1- (psf) | p2- (psf) |
|------|----------|------|-------|-------|-------|-----------|-----------|-----------|-----------|
| 1 | 38.87 | 0.30 | -1.08 | 0.18 | -0.18 | 4.67 | 18.66 | -49.14 | -35.14 |
| 2e | 38.87 | 0.42 | -1.40 | 0.18 | -0.18 | 9.45 | 23.45 | -61.24 | -47.24 |
| 2n | 38.87 | 0.42 | -1.97 | 0.18 | -0.18 | 9.45 | 23.45 | -83.68 | -69.69 |
| 2r | 38.87 | 0.42 | -1.97 | 0.18 | -0.18 | 9.45 | 23.45 | -83.68 | -69.69 |
| 3e | 38.87 | 0.55 | -3.02 | 0.18 | -0.18 | 14.24 | 28.23 | -124.48 | -110.48 |
| 3r | 38.87 | 0.55 | -2.50 | 0.18 | -0.18 | 14.24 | 28.23 | -104.18 | -90.19 |
| 4 | 38.87 | 0.89 | -0.99 | 0.18 | -0.18 | 27.74 | 41.74 | -45.63 | -31.63 |
| 5 | 38.87 | 0.89 | -1.19 | 0.18 | -0.18 | 27.74 | 41.74 | -53.16 | -39.16 |

Positive and negative values of external and internal pressures are combined to determine four possible pressures:

p1+ uses GCp+ and GCpi+ p1- uses GCp- and GCpi+

p2+ uses GCp+ and GCpi- p2- uses GCp- and GCpi-

Roof Overhang Pressure, p, Equation 30.9-1.

Wind pressures acting on the roof overhang (soffit pressures not included).

| Zone | qh (psf) | GCp- (R.O.) | GCpi+ | GCpi- | p1- (psf) | p2- (psf) |
|------|----------|-------------|-------|-------|-----------|-----------|
| 1 | 38.87 | -1.88 | 0.18 | -0.18 | -80.12 | -66.13 |
| 2e | 38.87 | -1.97 | 0.18 | -0.18 | -83.58 | -69.58 |
| 2n | 38.87 | -2.68 | 0.18 | -0.18 | -111.00 | -97.01 |
| 2r | 38.87 | -2.68 | 0.18 | -0.18 | -111.00 | -97.01 |
| 3e | 38.87 | -3.93 | 0.18 | -0.18 | -159.75 | -145.76 |
| 3r | 38.87 | -3.60 | 0.18 | -0.18 | -146.95 | -132.95 |

Components and Cladding

ATC Hazards by Location

Search by Address Search by Coordinate

30.417202387756706 -87.69235749464264

Map Satellite

Wind Snow Tornado Seismic

Print these results Save these results

ASCE 7-16 Select a dataset to view contours.

MRI 10-Year 84 mph

MRI 25-Year 102 mph

MRI 50-Year 114 mph

MRI 100-Year 127 mph

Risk Category I 146 mph

Risk Category II 157 mph

You are in a wind-borne debris region.

83 ft

WIND NOTES
SCALE: N.T.S.

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JOB NUMBER:

LES 200308

City of Foley
Mel Roberts Park
Tennis Pavilion

DATE:

06.02.2020

DRAWN: RRA

CHECKED: RRA

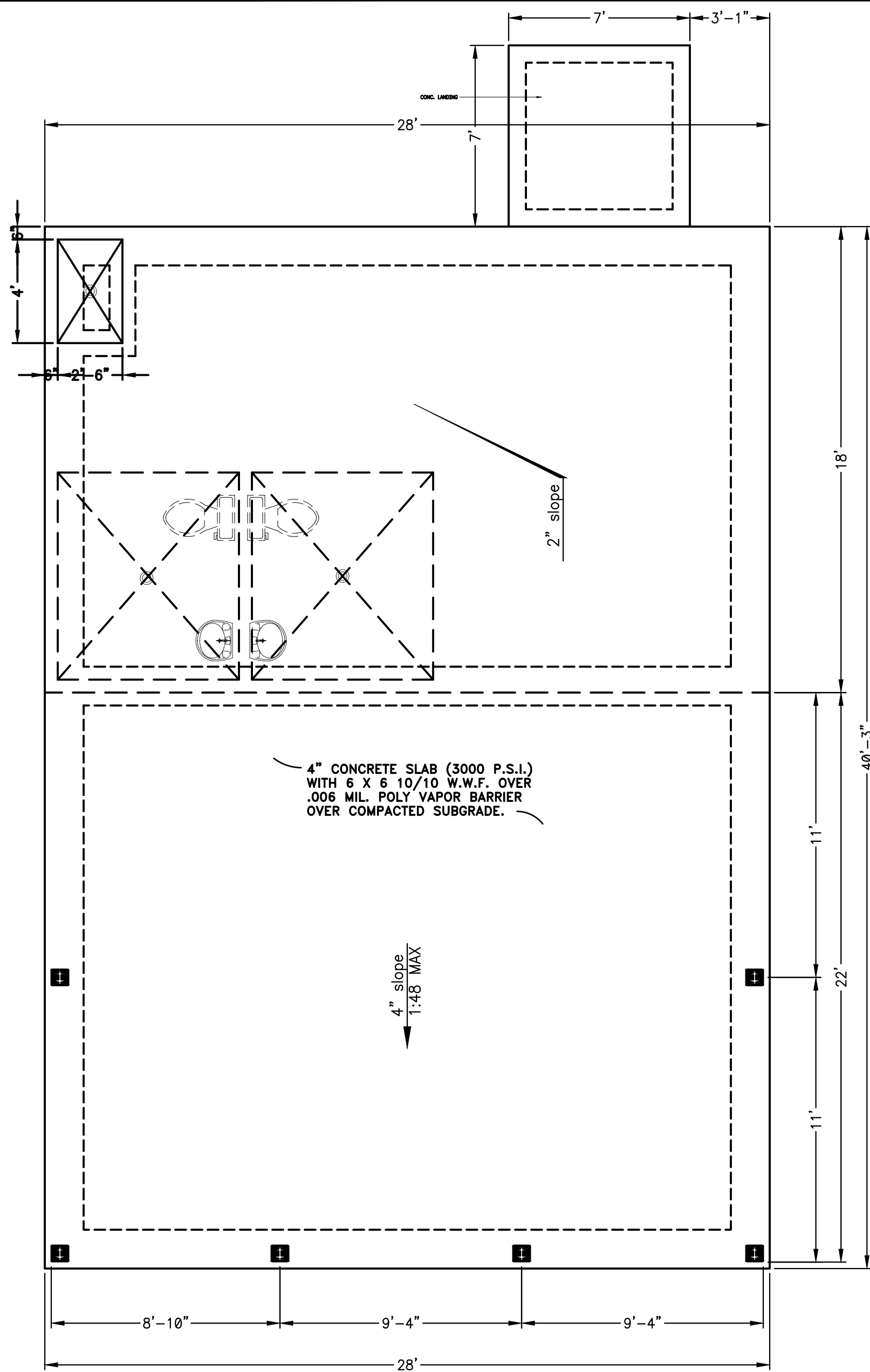
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SCALE:

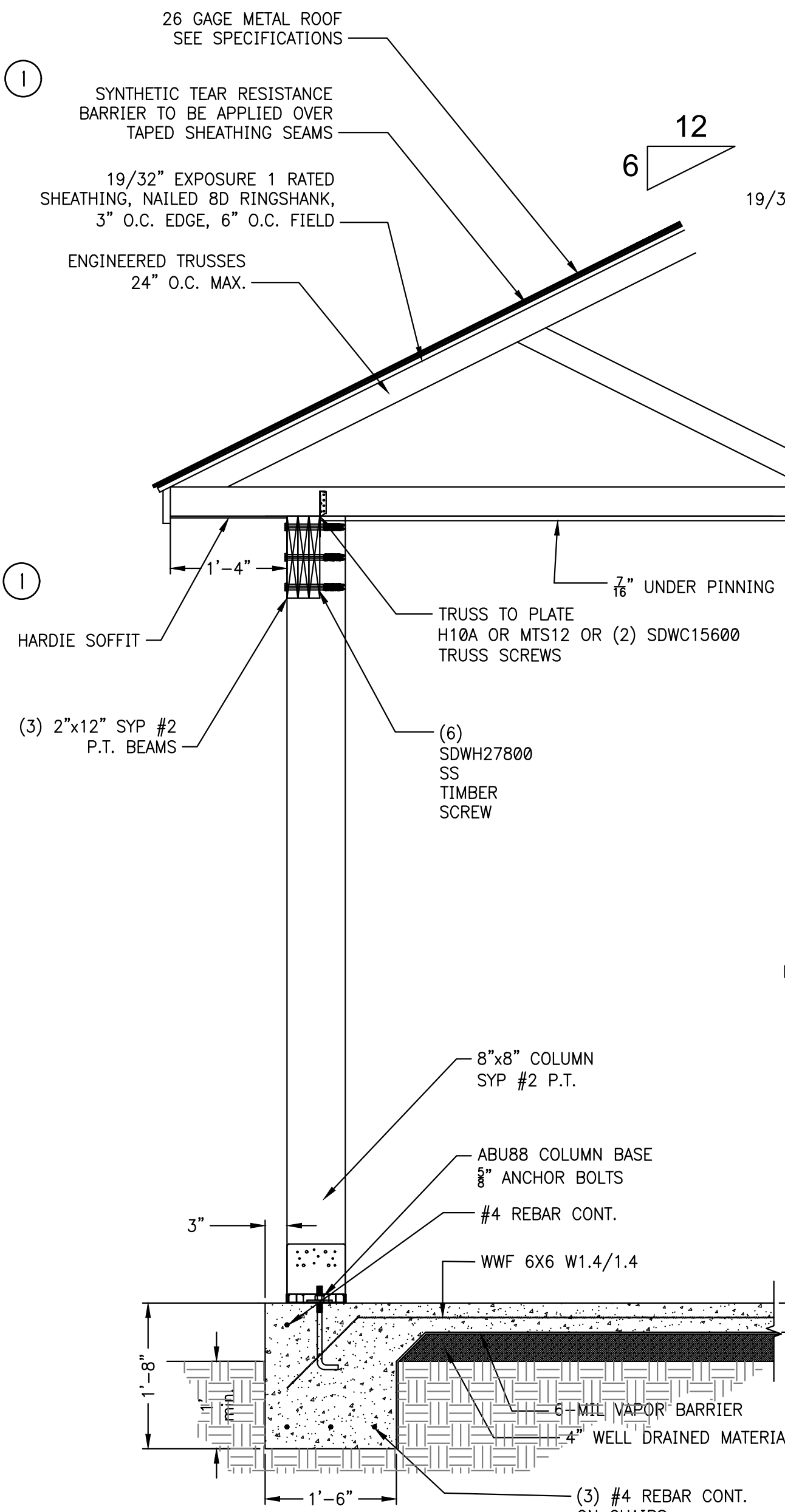
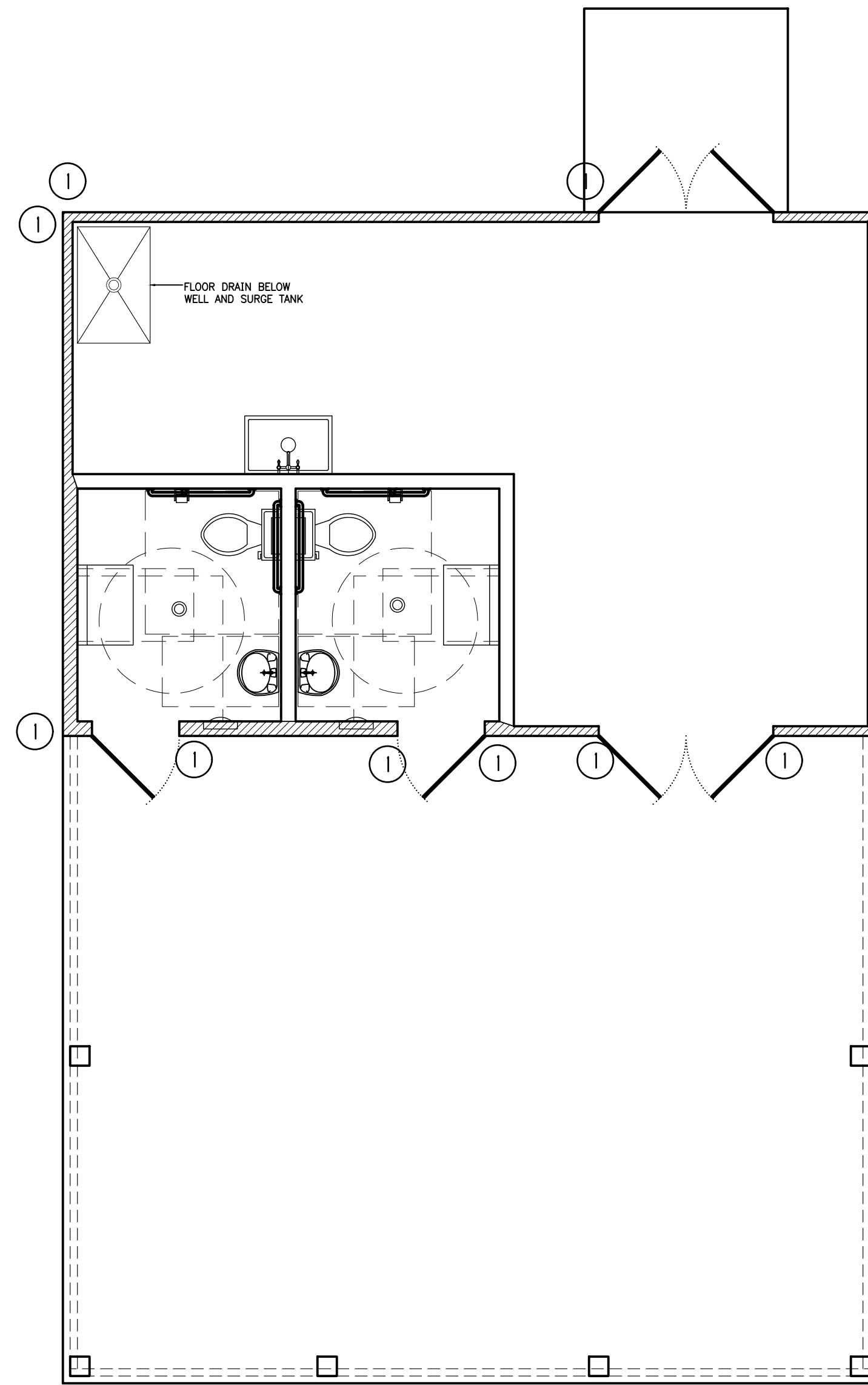
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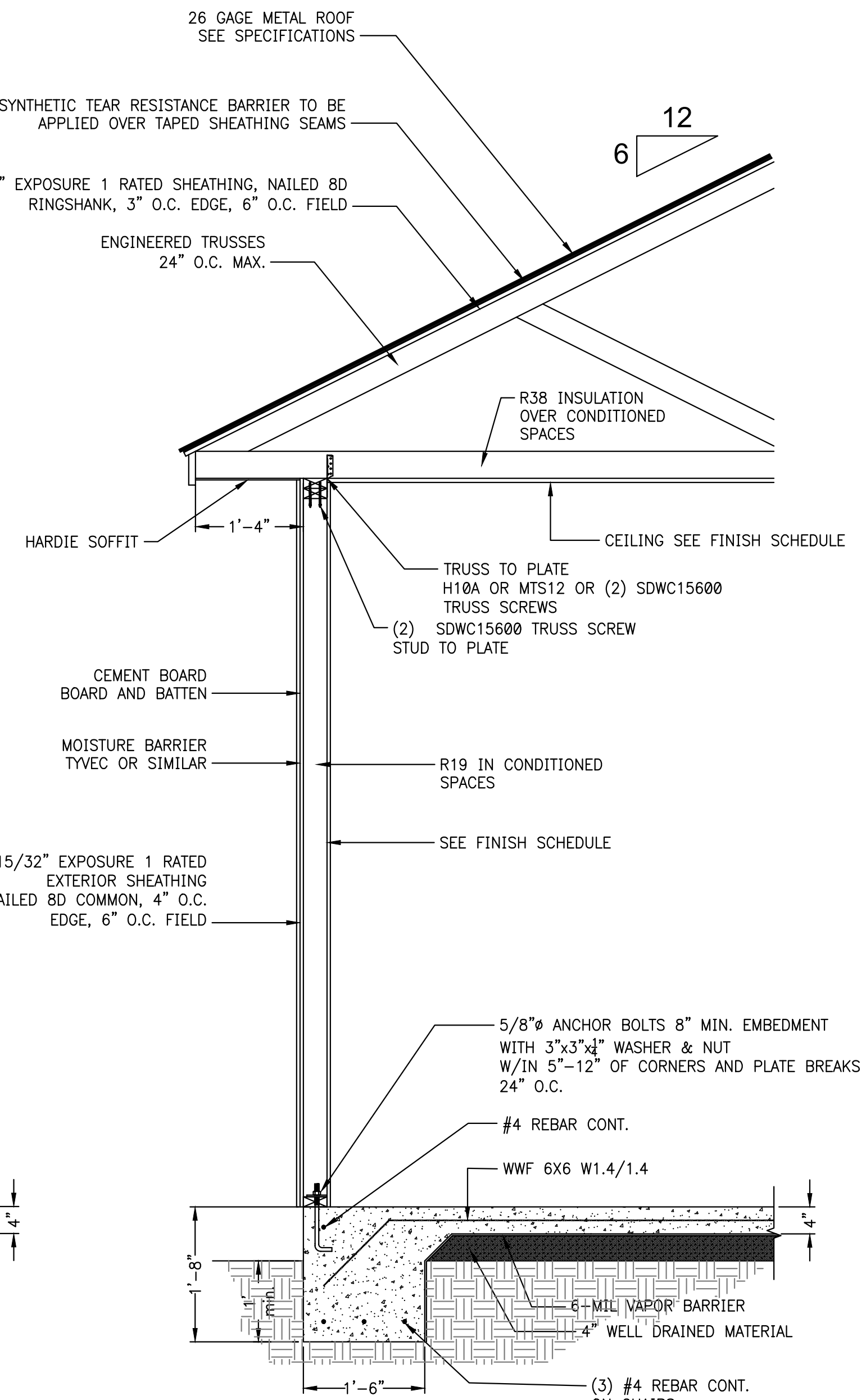
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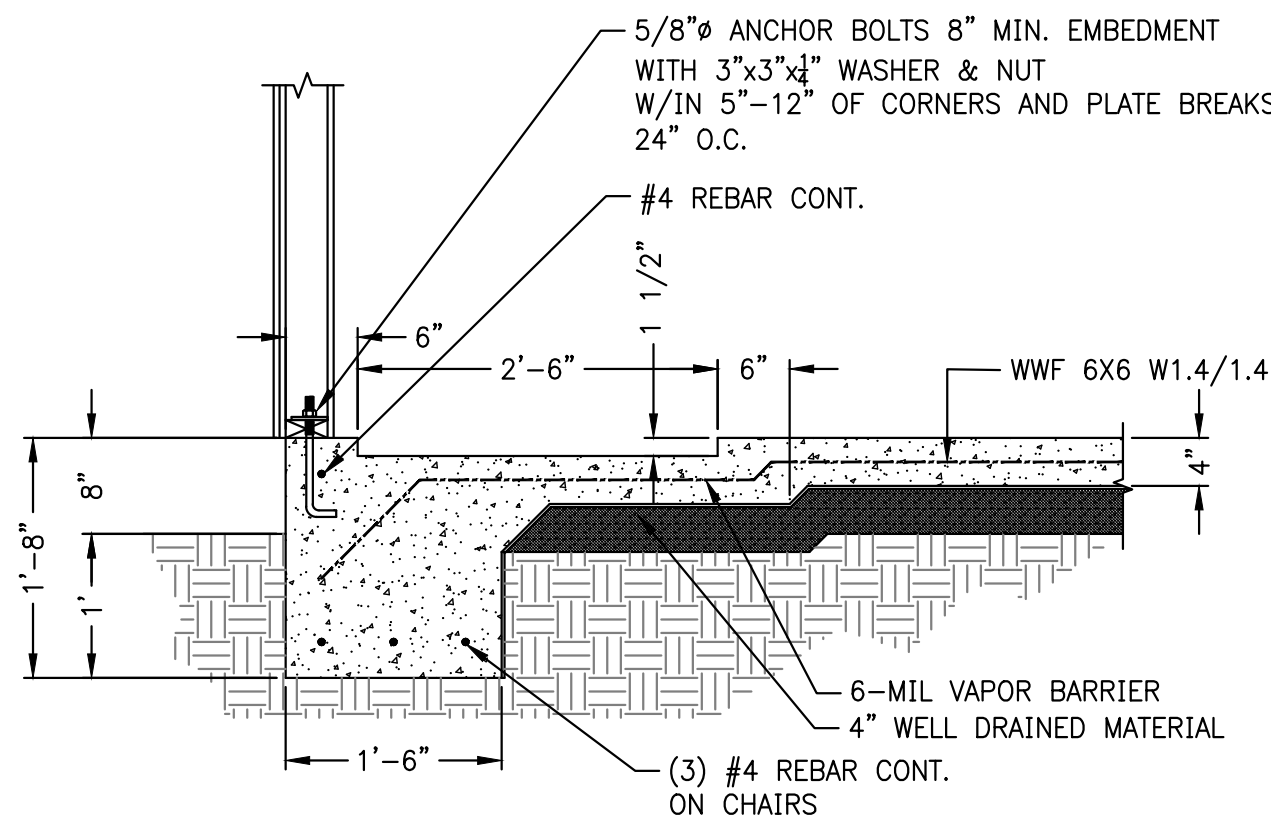
FOUNDATION PLAN
SCALE: 3/4" = 1'-0"



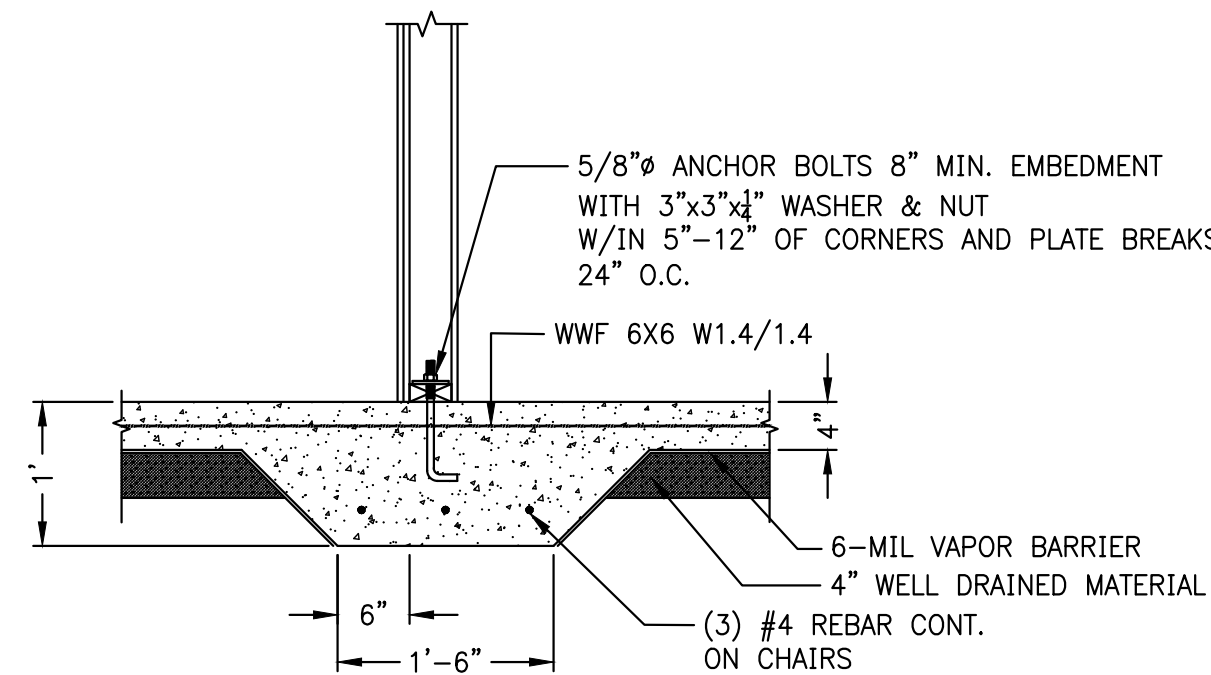
PORCH SECTION
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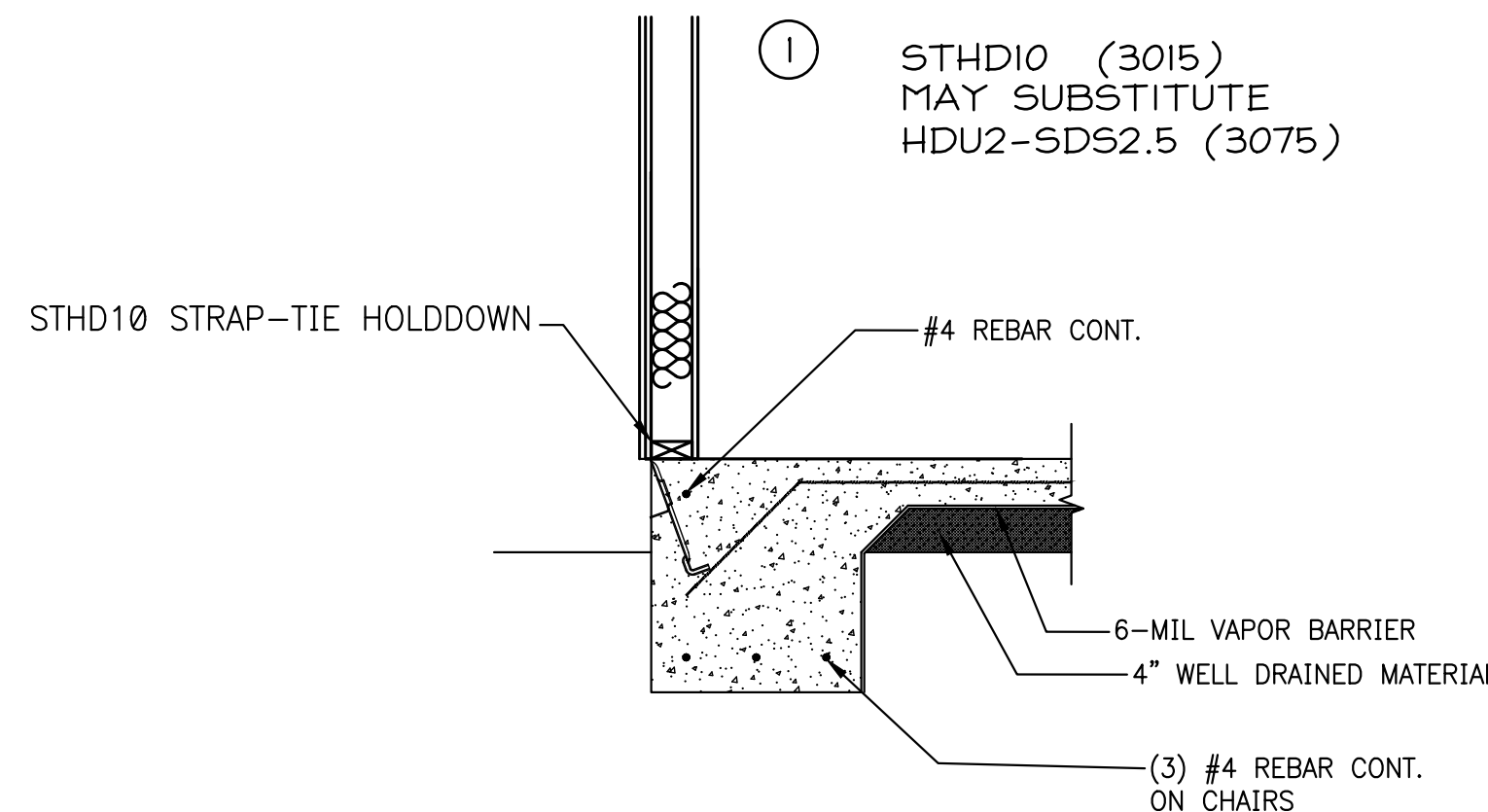
BUILDING SECTION
SCALE: 3/4" = 1'-0"



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



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



FOUNDATION / FLOOR PLAN
SCALE: 3/4" = 1'-0"

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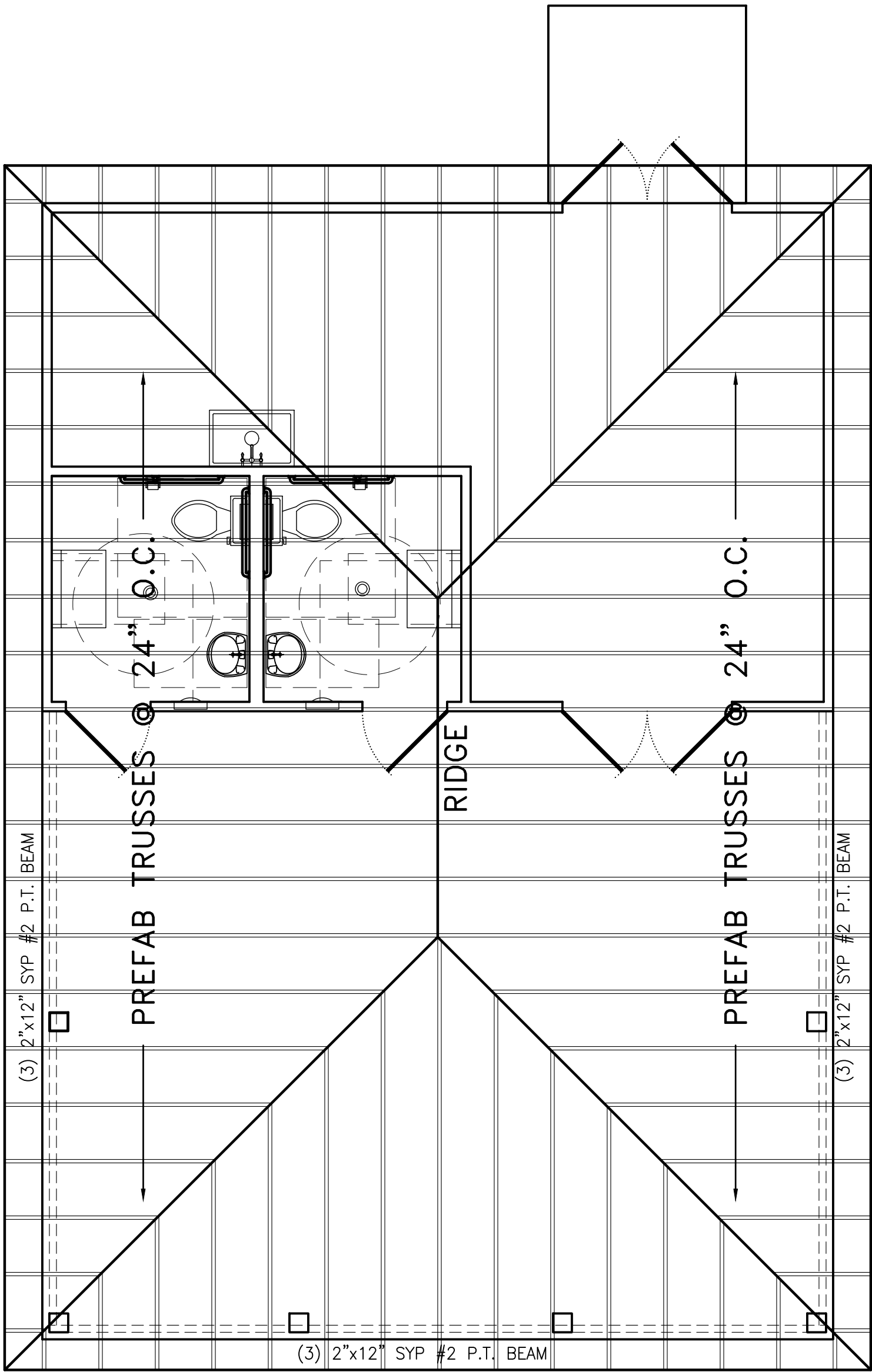
JOB NUMBER:
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City of Foley
Mel Roberts Park
Tennis Pavilion

DATE:
06.02.2020
DRAWN: RRA
CHECKED: RRA
REVISION:
07.27.2020

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

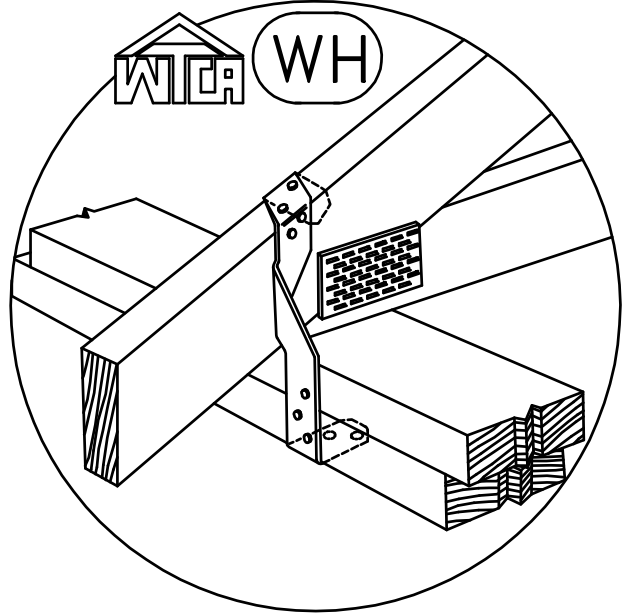
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12



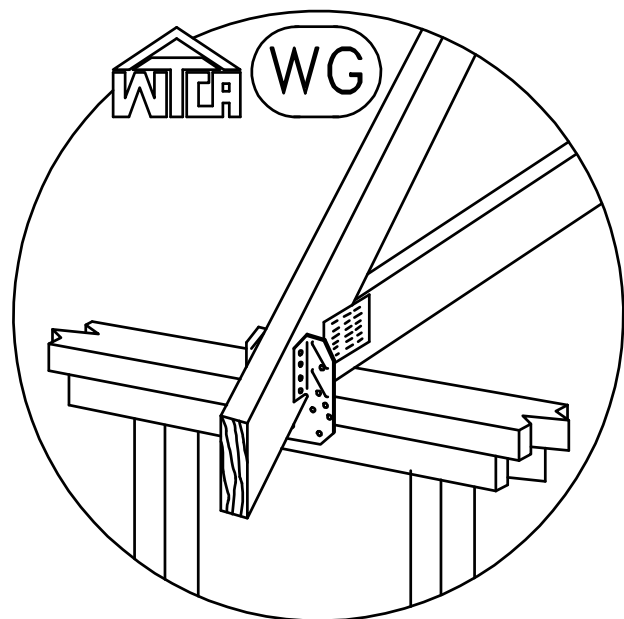
ROOF PLAN

SCALE: 3/8" = 1'-0"

ENGINEERED
MANUFACTURED
TRUSSES
24" O.C. MAX.



SIMPSON MTS12



SIMPSON H10A OR H10S

SECTION 06 17 93 SHOP FABRICATED WOOD TRUSSES

- 1.01 WORK INCLUDED
DESIGN, MANUFACTURE, AND SUPPLY WOOD TRUSSES AS SHOWN ON THE CONSTRUCTION DOCUMENTS AND AS SPECIFIED.
- 1.02 DEFINITIONS
A. PCS: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES JOINTLY PRODUCED BY THE STRUCTURAL BUILDING COMPONENTS ASSOCIATION AND THE TRUSS PLATE INSTITUTE.
B. BUILDING DESIGNER: OWNER OF THE BUILDING OR THE PERSON THAT CONTRACTS WITH THE OWNER FOR THE DESIGN OF THE FRAMING STRUCTURAL SYSTEM AND / OR WHO IS RESPONSIBLE FOR THE PREPARATION OF THE CONSTRUCTION DOCUMENTS, WHEN MANIPATED BY THE LEGAL REQUIREMENTS, THE BUILDING DESIGNER SHALL BE A REGISTERED DESIGN PROFESSIONAL.
C. BUILDING: STRUCTURE USED OR INTENDED FOR SUPPORTING OR SHELTERING ANY USE OR OCCUPANCY.
D. BUILDING CODE: AS IT APPLIES TO A BUILDING, ANY SET OF STANDARDS SET FORTH AND ENFORCED BY A JURISDICTION FOR THE PROTECTION OF PUBLIC SAFETY.
E. BUILDING OFFICIAL: OFFICER OR OTHER DESIGNATED AUTHORITY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE BUILDING CODE, OR A DULY AUTHORIZED REPRESENTATIVE.
F. CONSTRUCTION DOCUMENTS: WRITTEN, GRAPHIC AND PICTORIAL DOCUMENTS PREPARED OR ASSEMBLED FOR DESCRIBING THE DESIGN (INCLUDING THE FRAMING STRUCTURAL SYSTEM), LOCATION AND PHYSICAL CHARACTERISTICS OF THE ELEMENTS OF A BUILDING NECESSARY TO OBTAIN A BUILDING PERMIT AND CONSTRUCT A BUILDING.
G. CONTRACTOR: OWNER OF A BUILDING, OR THE PERSON WHO CONTRACTS WITH THE OWNER, WHO CONSTRUCTS THE BUILDING IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE TRUSS SUBMITTAL PACKAGE. THE TERM "CONTRACTOR" SHALL INCLUDE THOSE SUBCONTRACTORS WHO HAVE A DIRECT CONTRACT WITH THE CONTRACTOR TO CONSTRUCT ALL OR A PORTION OF THE CONSTRUCTION.
H. COVER / TRUSS INDEX SHEET: SHEET THAT IS SIGNED AND SEALED, WHERE REQUIRED BY THE LEGAL REQUIREMENTS, BY THE TRUSS DESIGN ENGINEER, AND DEPENDING ON THE LEGAL REQUIREMENTS SHALL BE PERMITTED TO CONTAIN THE FOLLOWING INFORMATION: (1) IDENTIFICATION OF THE BUILDING, INCLUDING BUILDING NAME AND ADDRESS, LOT, BLOCK, SUBDIVISION, AND CITY OR COUNTY; (2) IDENTIFICATION OF CONSTRUCTION DOCUMENTS BY DRAWING NUMBER(S) WITH REVISION DATE; (3) SPECIFIED BUILDING CODE; (4) COMPUTER PROGRAM USED; (5) ROOF DEAD AND LIVE LOADS; (6) FLOOR DEAD AND LIVE LOADS; (7) WIND LOAD CRITERIA FROM A SPECIFICALLY DEFINED CODE (E.G., ASCE 7) AND ANY OTHER DESIGN LOADS (SUCH AS PONDING, MECHANICAL LOADS, ETC.); (8) NAME, ADDRESS AND LICENSE NUMBER OF REGISTERED DESIGN PROFESSIONAL FOR THE BUILDING, IF KNOWN; (9) A LISTING OF THE INDIVIDUAL IDENTIFICATION NUMBERS AND DATES OF EACH TRUSS DESIGN DRAWING REFERENCED BY THE COVER / TRUSS INDEX SHEET; AND (10) NAME, ADDRESS, DATE OF DRAWING AND LICENSE NUMBER OF TRUSS DESIGN ENGINEER.
I. FRAMING STRUCTURAL SYSTEM: COMPLETED COMBINATION OF STRUCTURAL ELEMENTS, TRUSSES, CONNECTIONS AND OTHER SYSTEMS, WHICH SERVE TO SUPPORT THE BUILDING'S SELF-WEIGHT AND THE SPECIFIED LOADS.
J. JURISDICTION: GOVERNMENTAL UNIT THAT IS RESPONSIBLE FOR ADOPTING AND ENFORCING THE BUILDING CODE.
K. LEGAL REQUIREMENTS: ANY APPLICABLE PROVISIONS OF ALL STATUTES, LAWS, RULES, REGULATIONS, ORDINANCES, CODES, OR ORDERS OF THE GOVERNING JURISDICTION.
L. OWNER: PERSON HAVING A LEGAL OR EQUITABLE INTEREST IN THE PROPERTY UPON WHICH A BUILDING IS TO BE CONSTRUCTED, AND: (1) EITHER PREPARES, OR RETAINS THE BUILDING DESIGNER OR REGISTERED DESIGN PROFESSIONAL, TO PREPARE THE CONSTRUCTION DOCUMENTS; AND (2) EITHER CONSTRUCTS, OR RETAINS THE CONTRACTOR TO CONSTRUCT THE BUILDING.
M. REGISTERED DESIGN PROFESSIONAL: ARCHITECT OR ENGINEER, WHO IS LICENSED TO PRACTICE THEIR RESPECTIVE DESIGN PROFESSION AS DEFINED BY THE LEGAL REQUIREMENTS OF THE JURISDICTION IN WHICH THE BUILDING IS TO BE CONSTRUCTED.
N. STANDARD: NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/ TP1 1).
O. STRUCTURAL ELEMENT: SINGLE STRUCTURAL MEMBER (OTHER THAN A TRUSS) THAT IS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
P. TRUSS: INDIVIDUAL METAL-PLATE-CONNECTED WOOD COMPONENT MANUFACTURED FOR THE CONSTRUCTION OF A BUILDING.
Q. TRUSS DESIGN DRAWING: WRITTEN, GRAPHIC AND PICTORIAL DEPICTION OF AN INDIVIDUAL TRUSS THAT INCLUDES THE INFORMATION REQUIRED IN THE STANDARD.
R. TRUSS DESIGN ENGINEER: PERSON WHO IS LICENSED TO PRACTICE ENGINEERING AS DEFINED BY THE LEGAL REQUIREMENTS OF THE JURISDICTION IN WHICH THE BUILDING IS TO BE CONSTRUCTED AND WHO SUPERVISES THE PREPARATION OF THE TRUSS DESIGN DRAWINGS.
S. TRUSS DESIGNER: PERSON RESPONSIBLE FOR THE PREPARATION OF THE TRUSS DESIGN DRAWINGS.
T. TRUSS MANUFACTURER: PERSON ENGAGED IN THE FABRICATION OF TRUSSES.
U. TRUSS PLACEMENT DIAGRAM: ILLUSTRATION IDENTIFYING THE ASSUMED LOCATION OF EACH TRUSS.
V. TRUSS SUBMITTAL PACKAGE: PACKAGE CONSISTING OF EACH INDIVIDUAL TRUSS DESIGN DRAWING, AND, AS APPLICABLE, THE TRUSS PLACEMENT DIAGRAM, THE COVER / TRUSS INDEX SHEET, LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS DESIGNED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE, APPLICABLE PCS DEFINED LATERAL RESTRAINT AND DIAGONAL BRACING DETAILS, AND ANY OTHER STRUCTURAL DETAILS GERMANE TO THE TRUSSES.

1.03 DESIGN

- A. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE STANDARD AND WHERE ANY APPLICABLE DESIGN FEATURE IS NOT SPECIFICALLY COVERED HEREIN, DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE AMERICAN FOREST & PAPER ASSOCIATION'S (AF&PA) (S) NATIONAL DESIGN SPECIFICATION® (NDSP®) FOR WOOD CONSTRUCTION AND ALL APPLICABLE LEGAL REQUIREMENTS.
B. TRUSS MANUFACTURER SHALL FURNISH TRUSS DESIGN DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE LEGAL REQUIREMENTS.
C. IF REQUIRED BY THE CONSTRUCTION DOCUMENTS AND THE TRUSS MANUFACTURER'S CONTRACT, THE TRUSS MANUFACTURER SHALL FURNISH A TRUSS PLACEMENT DIAGRAM WHICH SHALL PROVIDE AT A MINIMUM THE LOCATION ASSUMED FOR EACH TRUSS BASED ON THE TRUSS MANUFACTURER'S INTERPRETATION OF THE CONSTRUCTION DOCUMENTS.
D. WHERE REQUIRED BY THE TRUSS MANUFACTURER'S CONTRACT, ANY LOCAL BUILDING OFFICIAL OR APPLICABLE LEGAL REQUIREMENTS, THE TRUSS MANUFACTURER SHALL SUBMIT THE TRUSS SUBMITTAL PACKAGE TO THE BUILDING DESIGNER AND / OR THE LOCAL BUILDING OFFICIAL FOR REVIEW AND APPROVAL PRIOR TO THE MANUFACTURING OF THE TRUSSES.
E. THE TRUSS DESIGN DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED BELOW (PER THE STANDARD):
1. BUILDING CODE USED FOR DESIGN, UNLESS SPECIFIED ON COVER / TRUSS INDEX SHEET.
2. SLOPE OR DEPTH, SPAN AND SPACING.
3. LOCATION OF ALL JOINTS AND SUPPORT LOCATIONS.
4. NUMBER OF PLIES IF GREATER THAN ONE.
5. REQUIRED BRACING WIDTHS.
6. DESIGN LOADS AS APPLICABLE, INCLUDING:
TOP CHORD LIVE LOAD (FOR ROOF TRUSSES, THIS SHALL BE THE CONTROLLING CASE OF LIVE LOAD OR SNOW LOAD);
TOP CHORD DEAD LOAD;
BOTTOM CHORD LIVE LOAD;
BOTTOM CHORD DEAD LOAD;
ADDITIONAL LOADS AND LOCATIONS;
ENVIRONMENTAL LOAD DESIGN CRITERIA (WIND SPEED, SNOW, SEISMIC, AND ALL APPLICABLE FACTORS AS REQUIRED TO CALCULATE THE TRUSS LOADS); AND
OTHER LATERAL LOADS, INCLUDING DRAG STRUT LOADS.
7. ADJUSTMENTS TO WOOD MEMBER AND METAL CONNECTOR PLATE DESIGN VALUES FOR CONDITIONS OF USE.
8. MAXIMUM REACTION FORCE AND DIRECTION, INCLUDING MAXIMUM UPLIFT REACTION FORCES WHERE APPLICABLE.
9. METAL CONNECTOR PLATE TYPE, MANUFACTURER, SIZE, AND THICKNESS OR GAUGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.
10. SIZE, SPECIES AND GRADE FOR EACH WOOD MEMBER.
11. TRUSS-TO-TRUSS CONNECTION AND TRUSS FIELD ASSEMBLY REQUIREMENTS.
12. CALCULATED SPAN TO DEFLECTION RATIO AND / OR MAXIMUM VERTICAL AND HORIZONTAL DEFLECTION FOR LIVE AND TOTAL LOAD AND FOR COMBINED FACTORS AS APPLICABLE.
13. MAXIMUM AXIAL TENSION AND COMPRESSION FORCES IN THE TRUSS MEMBERS.

14. FABRICATION TOLERANCE PER THE STANDARD.
15. REQUIRED PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT LOCATION AND THE METHOD OF RESTRAINT / BRACING TO BE USED PER THE STANDARD.
- 2.01 MATERIALS
A. LUMBER:
1. LUMBER USED SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION BUREAU OR AGENCY APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE, AND SHALL BE THE SIZE, SPECIES, AND GRADE AS SHOWN ON THE TRUSS DESIGN DRAWINGS, OR EQUIVALENT AS APPROVED BY THE TRUSS DESIGN ENGINEER / TRUSS DESIGNER.
2. ADJUSTMENT OF VALUE FOR DURATION OF LOAD OR CONDITIONS OF USE SHALL BE IN ACCORDANCE WITH PCS.
3. FIRE RETARDANT TREATED LUMBER, IF APPLICABLE, SHALL MEET THE SPECIFICATIONS OF THE FIRE RETARDANT CHEMICAL MANUFACTURER, THE TRUSS DESIGN AND THE STANDARD AND SHALL BE RE-ORDERED AFTER TREATMENT IN ACCORDANCE WITH THE AMERICAN WOOD-PRESERVERS® ASSOCIATION (AWPA) STANDARD C20 STRUCTURAL LUMBER – FIRE RETARDANT TREATMENT BY PRESSURE PROCESSES. ALLOWABLE VALUES MUST BE ADJUSTED IN ACCORDANCE WITH NDS. LUMBER TREATER SHALL SUPPLY CERTIFICATE OF COMPLIANCE.
B. METAL CONNECTOR PLATES:
1. METAL CONNECTOR PLATES SHALL BE MANUFACTURED BY A TRUSS PLATE INSTITUTE (TPI) MEMBER PLATE MANUFACTURER AND SHALL NOT BE LESS THAN 0.036 IN. THICK (20 GAUGE) AND SHALL MEET OR EXCEED ASTM A659 / A659M GRADE 55, AND GALVANIZED COATING SHALL MEET OR EXCEED ASTM A624 / 624M, COATING DESIGNATION G60. WORKING STRESSES IN STEEL ARE TO BE APPLIED TO EFFECTIVENESS RATIOS FOR PLATES AS DETERMINED BY TEST AND IN ACCORDANCE WITH THE STANDARD.
2. IN HIGHLY CORROSIVE ENVIRONMENTS, SPECIAL APPLIED COATINGS OR STAINLESS STEEL MAY BE REQUIRED.
3. AT THE REQUEST OF THE BUILDING DESIGNER, A TPI MEMBER PLATE MANUFACTURER SHALL FURNISH A CERTIFIED RECORD THAT MATERIALS COMPLY WITH STEEL SPECIFICATIONS.
- 2.02 MANUFACTURING
TRUSSES SHALL BE MANUFACTURED TO MEET THE QUALITY REQUIREMENTS OF THE STANDARD AND IN ACCORDANCE WITH THE INFORMATION PROVIDED IN THE FINAL APPROVED TRUSS DESIGN DRAWINGS.

3.01 HANDLING, INSTALLING, RESTRAINING AND BRACING

- A. TRUSSES SHALL BE HANDLED DURING MANUFACTURING, DELIVERY AND BY THE CONTRACTOR AT THE JOB SITE SO AS NOT TO BE SUBJECTED TO EXCESSIVE BENDING.
B. TRUSSES SHALL BE UNLOADED IN A MANNER SO AS TO MINIMIZE LATERAL STRAIN. TRUSSES SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT FROM ON-SITE ACTIVITIES AND ENVIRONMENTAL CONDITIONS. TRUSSES SHALL BE HANDLED IN SUCH A WAY SO AS TO PREVENT TOPPLING WHEN BANDING IS REMOVED.
C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING, INSTALLATION, AND TEMPORARY RESTRAINT / BRACING OF THE TRUSSES IN A GOOD WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF PCS.
D. APPARENT DAMAGE TO TRUSSES, IF ANY, SHALL BE REPORTED TO TRUSS MANUFACTURER PRIOR TO ERECTION.
E. TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. EACH TRUSS SHALL BE HELD IN CORRECT ALIGNMENT UNTIL SPECIFIED PERMANENT RESTRAINT AND BRACING IS INSTALLED.
F. CUTTING AND ALTERING OF TRUSSES IS NOT PERMITTED. IF ANY TRUSS SHOULD BECOME BROKEN, DAMAGED, OR ALTERED, WRITTEN CONCURRENCE AND APPROVAL BY A REGISTERED DESIGN PROFESSIONAL IS REQUIRED.
G. CONCENTRATED LOADS SHALL NOT BE PLACED ON TOP OF TRUSSES UNTIL ALL SPECIFIED RESTRAINT AND BRACING HAS BEEN INSTALLED AND DECKING IS PERMANENTLY NAILED IN PLACE. SPECIFICALLY AVOID STACKING FULL BUNDLES OF PLYWOOD OR OTHER CONCENTRATED LOADS ON TOP OF TRUSSES.
H. TRUSS SUBMITTALS AND ANY SUPPLEMENTARY INFORMATION PROVIDED BY THE TRUSS MANUFACTURER SHALL BE PROVIDED BY THE CONTRACTOR TO THE INDIVIDUAL OR ORGANIZATION RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES.
I. TRUSSES SHALL BE PERMANENTLY RESTRAINED AND BRACED IN A MANNER CONSISTENT WITH GOOD BUILDING PRACTICES AS OUTLINED IN PCS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. TRUSSES SHALL FURTHERMORE BE ANCHORED OR RESTRAINED TO PREVENT OUT-OF-PLANE MOVEMENT SO AS TO KEEP ALL TRUSS MEMBERS FROM SIMULTANEOUSLY BUCKLING TOGETHER IN THE SAME DIRECTION. SUCH PERMANENT LATERAL RESTRAINT SHALL BE ACCOMPLISHED BY: (A) ANCHORAGE TO SOLID END WALLS; (B) PERMANENT DIAGONAL BRACING IN THE PLANE OF THE WEB MEMBERS; OR (C) OTHER SUITABLE MEANS.
J. MATERIAL USED IN TEMPORARY AND PERMANENT RESTRAINT AND BRACING SHALL BE FURNISHED BY CONTRACTOR.

HARDISOFFIT & CEMSOFFIT PANEL INSTALLATION DETAILS:

DESIGN PRESSURE: ±93 PSF

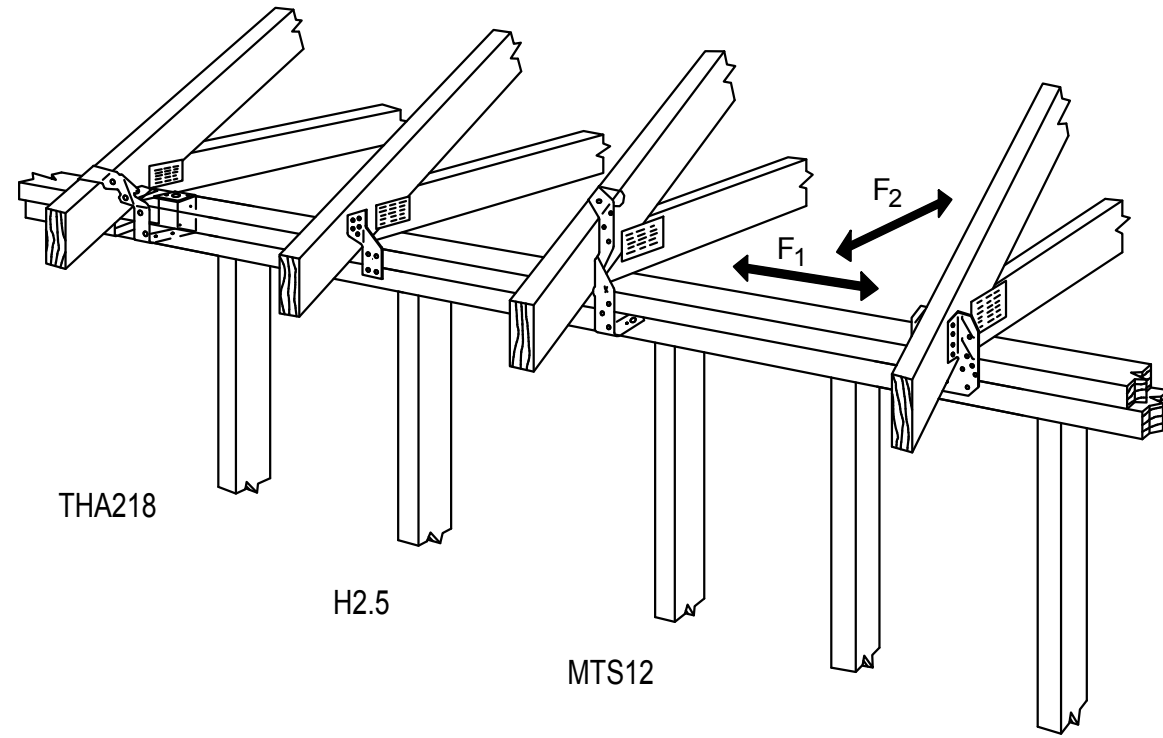
THE SOFFIT PLYS ARE TO BE INSTALLED OVER MINIMUM 2"x4" WOOD JOISTS SPACED A MAXIMUM OF 16" O.C. WHEN INSTALLED ON WOOD JOIST HARDISOFFIT SHALL BE FASTENED WITH 6d X 2" LONG GALVANIZED BOX NAILS. THE FASTENERS SHALL BE PLACED 4" O.C. AROUND THE PERIMETER OF THE PANEL AND INTERMEDIATE STUDS. NAILS SHALL HAVE A MINIMUM EDGE DISTANCE OF 3/4" AND A MINIMUM CLEARANCE OF 2" FROM CORNERS.

H10Z HARDIPLANK & CEMPLANK SIDING INSTALLATION DETAILS:

DESIGN PRESSURE -92 PSF

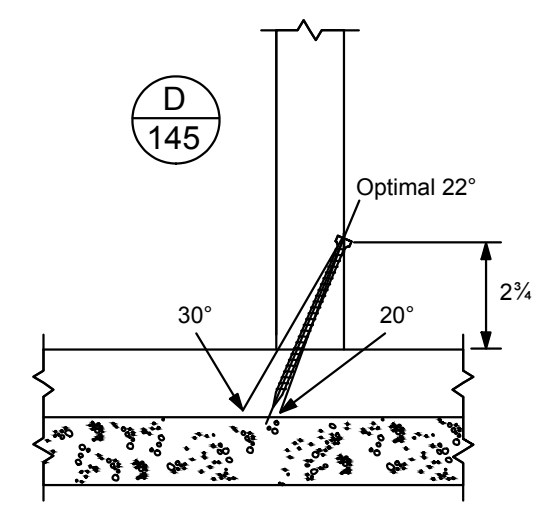
THE PLANKS ARE APPLIED HORIZONTALLY COMMENCING FROM THE BOTTOM COURSE OF A WALL WITH 1-1/4" WIDE LABS AT THE TOP OF THE PLANK. THE OPTIONAL PVC COVER MOLDING 1-5/8" WIDE IS APPLIED TO THE BOTTOM PLATE UNDER THE BOTTOM PLANK COURSE. THE VERTICAL JOIST MUST BE OVER FRAMING MEMBERS. OPTIONAL PVC BUTT JOINTS INSERTS ARE USED FOR ON-STUD JOINTING. THE PLANKS ARE TO BE INSTALLED OVER 5/8" (S-PLY) APA RATED PLYWOOD SUPPORTED BY A MINIMUM OF 2"x4" WOOD STUDS SPACED A MAXIMUM OF 16" O.C. THE SIDING SHALL BE FASTENED THROUGH OVER LAPPING PLANKS WITH 8d X 1-1/2" LONG GALVANIZED BOX NAILS OVER WOOD STUDS. THE FASTENERS SHALL BE PLACED IN THE OVER-LAPPING AREA <=8" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY INTO THE STUDS THROUGH THE 5/8" PLYWOOD SHEATHING, A DISTANCE OF 3/4" FROM THE EDGE SHALL ALWAYS BE OBSERVED.
ASCE 7-05 140 MPH EXPOSURE "C" MAY BE INSTALLED OVER MIN. 3/8" APA RATED STRUCTURAL SHEATHING. 2"x4" WOOD STUDS SPACED A MAXIMUM 16" O.C. 6D COMMON FOR PRODUCTS LESS THAN 7.5" WIDTH OR 8D COMMON FOR ALL HARDIPLANK PRODUCTS.
ASCE 7-05 140 MPH EXPOSURE "B" MAY BE INSTALLED OVER MIN. 3/8" APA RATED STRUCTURAL SHEATHING. 2"x4" WOOD STUDS SPACED A MAXIMUM 16" O.C. 6D COMMON FOR PRODUCTS LESS THAN 8.25" WIDTH OR 8D COMMON FOR ALL HARDIPLANK PRODUCTS.

THE USE OF STAINLESS FASTENERS IS REQUIRED IN COASTAL ENVIRONMENTS.

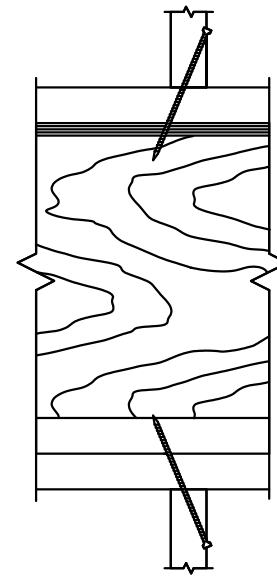


Simpson Strong-Tie
Truss and Rafter Connections to Wood Top Plates

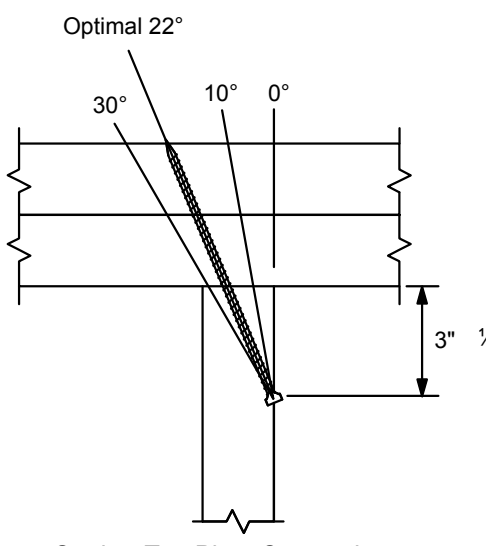
Stud-to-Plate Connections



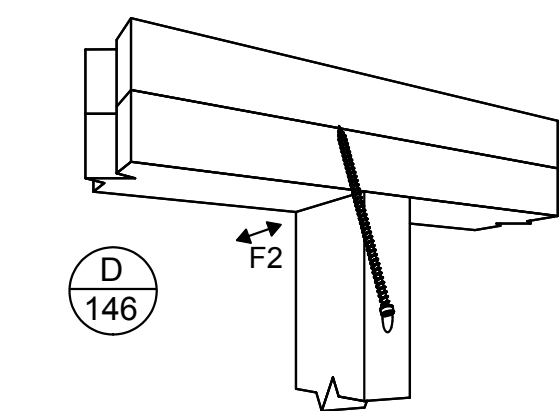
Stud-to-Bottom-Plate Connection
over Concrete/Masonry Foundation
(This application requires SDWC15450.)



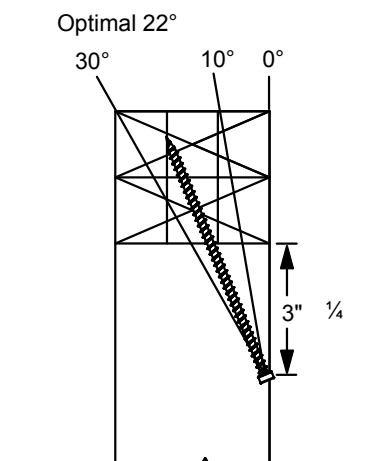
Stud-to-Bottom-Plate Connection
over Wood Floor
(Strong-Drive SDWC15600 shown.
See pages 62-63 for Strong-Drive® SDWF
FLOOR-TO-FLOOR Connections)



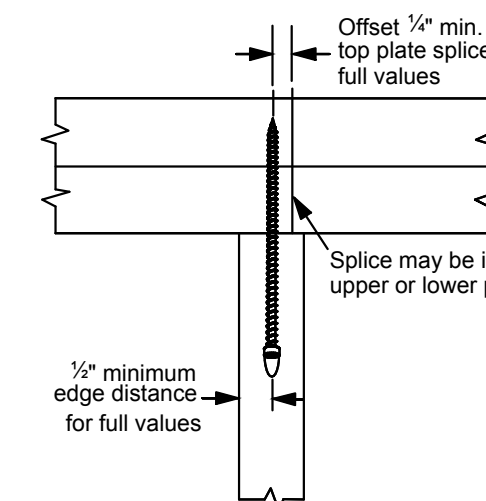
Stud-to-Top Plate Connection
(This application requires SDWC15600)



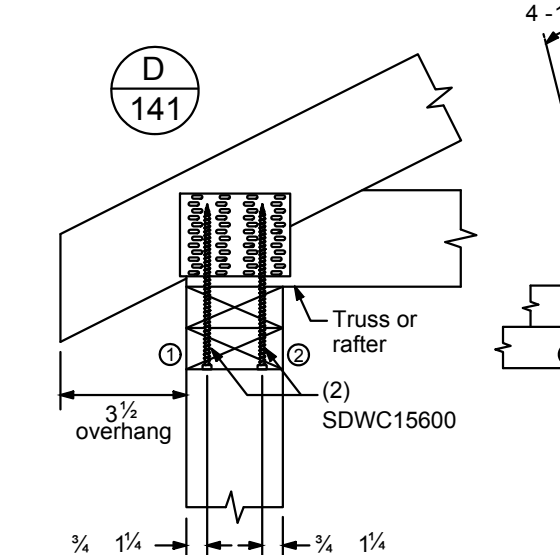
1 Narrow Face of Stud-to-Top Plate Connection
(This application requires SDWC15600)



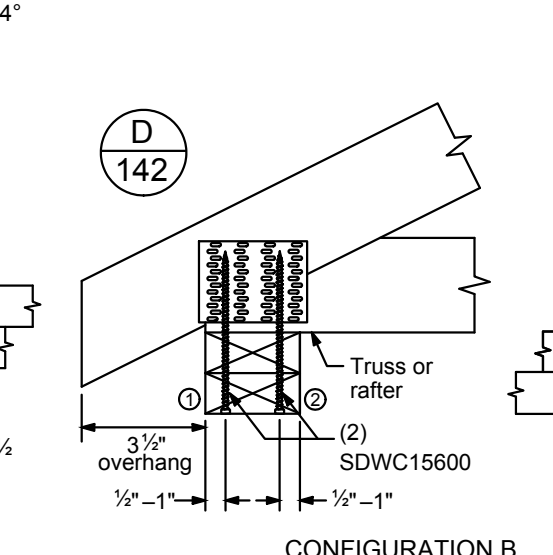
Installation Angle Range



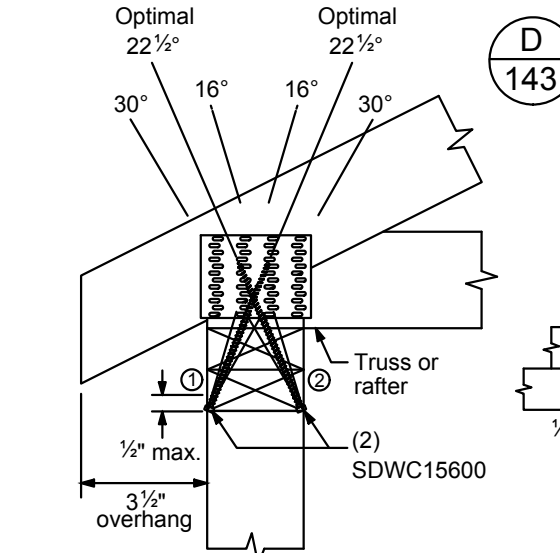
Minimum Edge Distance
and Splice Offset Requirements



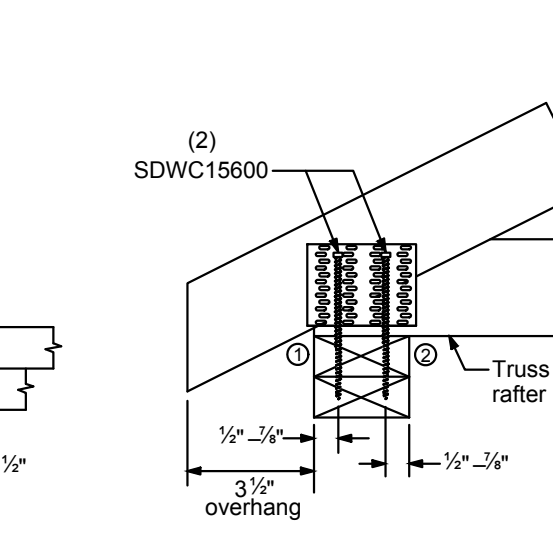
CONFIGURATION A
(Truss Aligned with Stud)
Install through Top Plate into Truss/Rafter
Both screws installed at a 4° - 14° angle,
offset 3/4" to 1 1/4" from opposite edges of the top plate.



CONFIGURATION B
(Truss Offset from Stud)
Install through Top Plate into Truss/Rafter
Both screws installed vertically ±5° into the center
of the truss/rafter from the underside of the top plate,
1/2" to 1" from opposite edges of the top plate.



CONFIGURATION C
Install through Top Plate into Truss/Rafter
Both screws installed at a 16° - 30° angle, offset
the opposite edges of truss/rafter. Use metal installation
guide included in screw kits for optimal 22.5° installation.



CONFIGURATION D
Install through Truss/Rafter into Top Plate
Both screws installed at a 20°-25° angle with a 1/2" to 1/4" offset
from the opposite edges of top plate and 3" ± 1/4" above top plate.
Use metal installation guide included in screw kits for optimal 22.5°
installation. To predrill through truss plates, use a 1/8" drill bit.

ROOF PLAN

SCALE: 3/8" = 1'-0"

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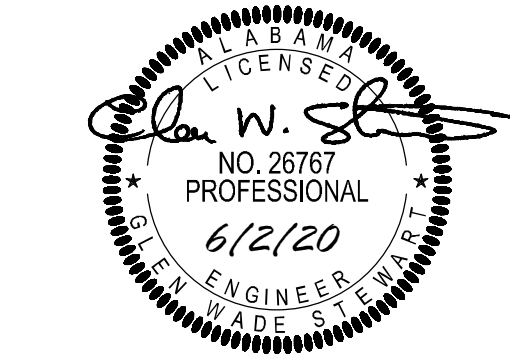
JOB NUMBER:
LES 200308

City of Foley
Mel Roberts Park
Tennis Pavilion

DATE:
06.02.2020
DRAWN: RRA
CHECKED: RRA
REVISION:

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

SHEET NO:
S04
OF
12



**STEWART ENGINEERING
AND CONSTRUCTION**
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wstewart@stewartengineering.net

| Revisions: | | |
|------------|------|-------------|
| No. | Date | Description |
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City of Foley
Mel Roberts Park Tennis Pavilion
901 N Cedar Street
Foley, Alabama 36535

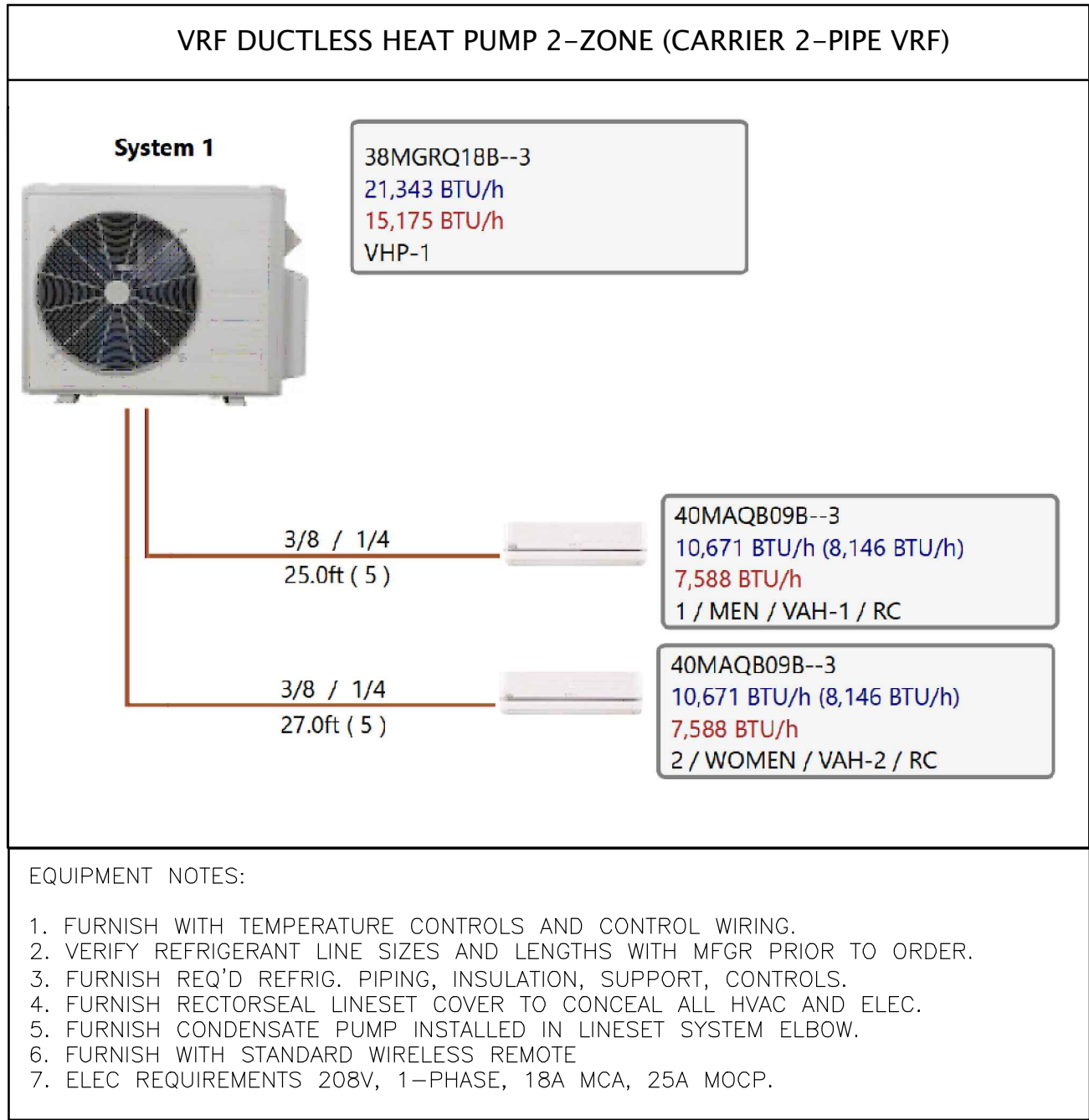
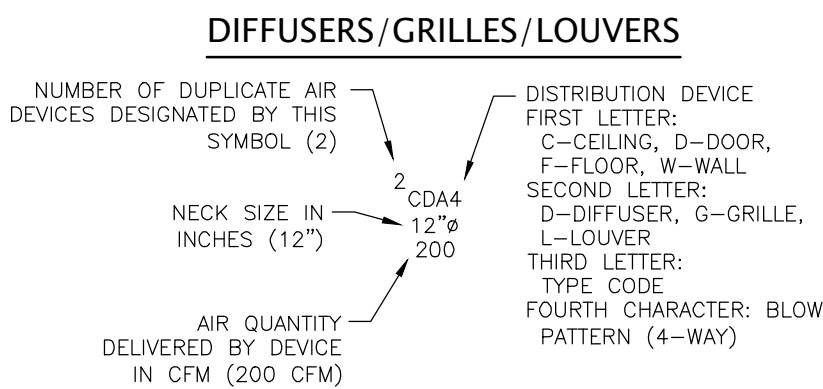
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|---------------|--------------|
| Title: | |
| HVAC PLAN | |
| Project No.: | - |
| Drawn By: | Wade Stewart |
| Checked: | Wade Stewart |
| Date: | June 2, 2020 |
| Sheet Number: | |
| M1.0 | |

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| FAN PERFORMANCE DATA | | | | | | | | |
|--|---------|-----|-------|-----------|--------|---------|-----------------|----------|
| TAG | SERVICE | CFM | SONES | ELEC DATA | | | BASIS OF DESIGN | |
| | | | | POWER | E.S.P. | VOLTAGE | MFGR | MODEL |
| EF-1 | BLDG | 240 | 3.8 | 1/10 HP | 0.25 | 120/1 | GREENHECK | G-090-VG |
| EQUIPMENT NOTES: MFGR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFGR, MODEL AND PERFORMANCE DATA. | | | | | | | | |
| 1. INTEGRAL DISCONNECT 2. VIBRATION ISOLATION KIT 3. INTEGRAL BACKDRAFT KIT 4. INTERLOCK WITH LIGHTING 5. FAN SPEED CONTROL 6. FURNISH W/ROOF CURB/COORD. WITH METAL ROOF RIB | | | | | | | | |

| VENTILATION CALCULATION | | | | | | | |
|-------------------------|-----------------------|--------------------------|-------------------------|----------------------|------------------------------------|------------------------------------|------------------------------|
| ROOM | APPROX ROOM SIZE (SF) | VENTILATION REQUIREMENTS | VENTILATION RATES "Vbz" | EXHAUST AIR RATES | VENTILATION RATE AS DESIGNED (CFM) | EXHAUST AIR RATE AS DESIGNED (CFM) | REMARKS |
| | | IMC 2015 TABLE 403.3 | IMC 2015 TABLE 403.3 | IMC 2015 TABLE 403.3 | | | |
| RESTROOMS | - | 70 PER WC | - | 140 | - | 140 | OPERATE VIA OCCUPANT SENSING |
| STORAGE | 332 | .06 CFM /SF | 20 | - | 100 | - | |

| AIR TERMINAL DEVICE SCHEDULE | | | | | | |
|--|----------------|-------|--------------|----------|------|-------|
| MARK | DESCRIPTION | MFGR | MODEL | MATERIAL | NECK | NOTES |
| CGA | CLG EXH GRILLE | PRICE | 80-12"x12" | ALUM. | RECT | ALL |
| DLA | DOOR LOUVER | PRICE | ATGH-12"x14" | ALUM. | RECT | ALL |
| NOTES: 1. FINISH SHALL BE VERIFIED W/ARCHITECT 2. PROVIDE W/ MFR'S PLASTER FRAME OF SAME MATERIAL. | | | | | | |



GENERAL HVAC NOTES

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- DUCTS USED TO CONVEY THE EXHAUST AIR SHALL BE MADE OF CONTINUOUS SHEET METAL AND SHALL BE FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM TO INCLUDE: PANELS, MODULES, RELAYS, WIRING, THERMOSTATS, SENSORS, DAMPERS, ACTUATORS AND ALL MISCELLANEOUS ITEMS AS REQUIRED TO FULFILL THE DESIGN INTENT AS INDICATED ON THE PLANS AND IN THE CODED NOTES.
- ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
- ALL LOW VOLTAGE WIRING REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
- CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- TEST & BALANCE ALL SUPPLY, RETURN & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS. SUBMIT REPORT AS PER SPECIFICATIONS.
- ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION. OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR INTAKES.

HVAC SYMBOL LEGEND

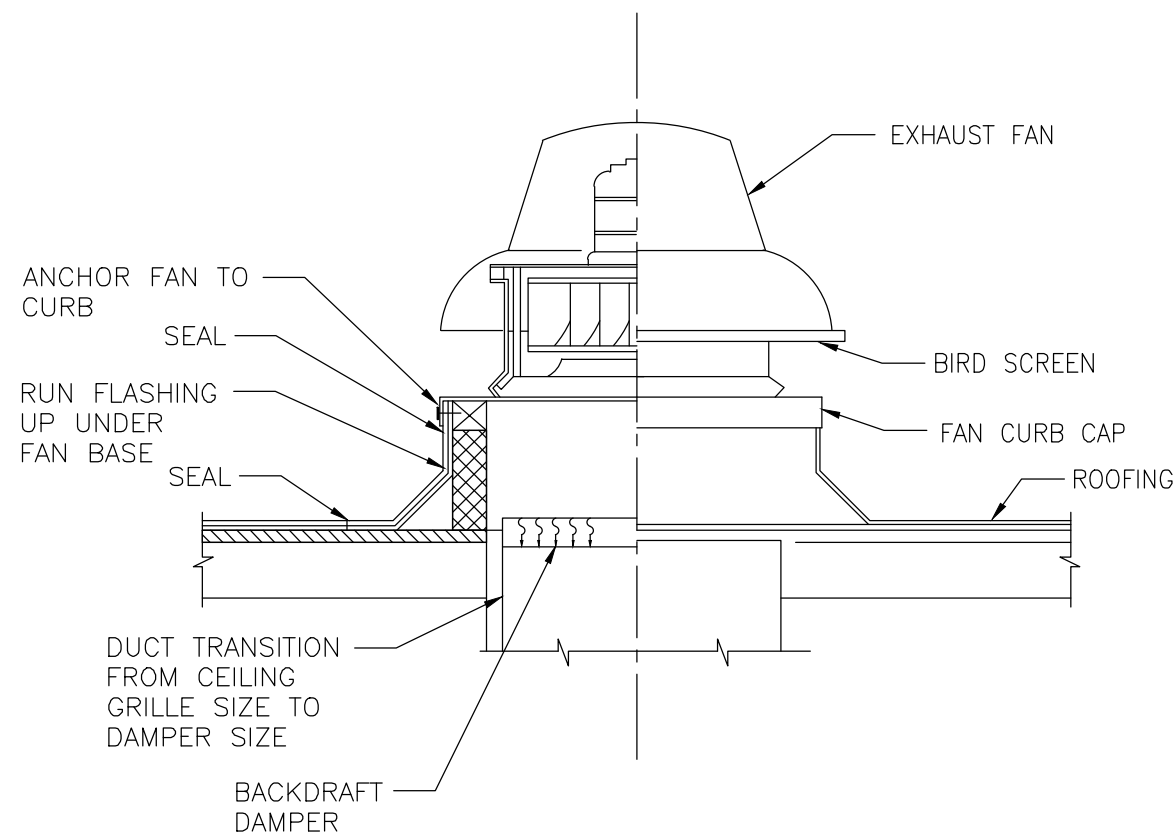
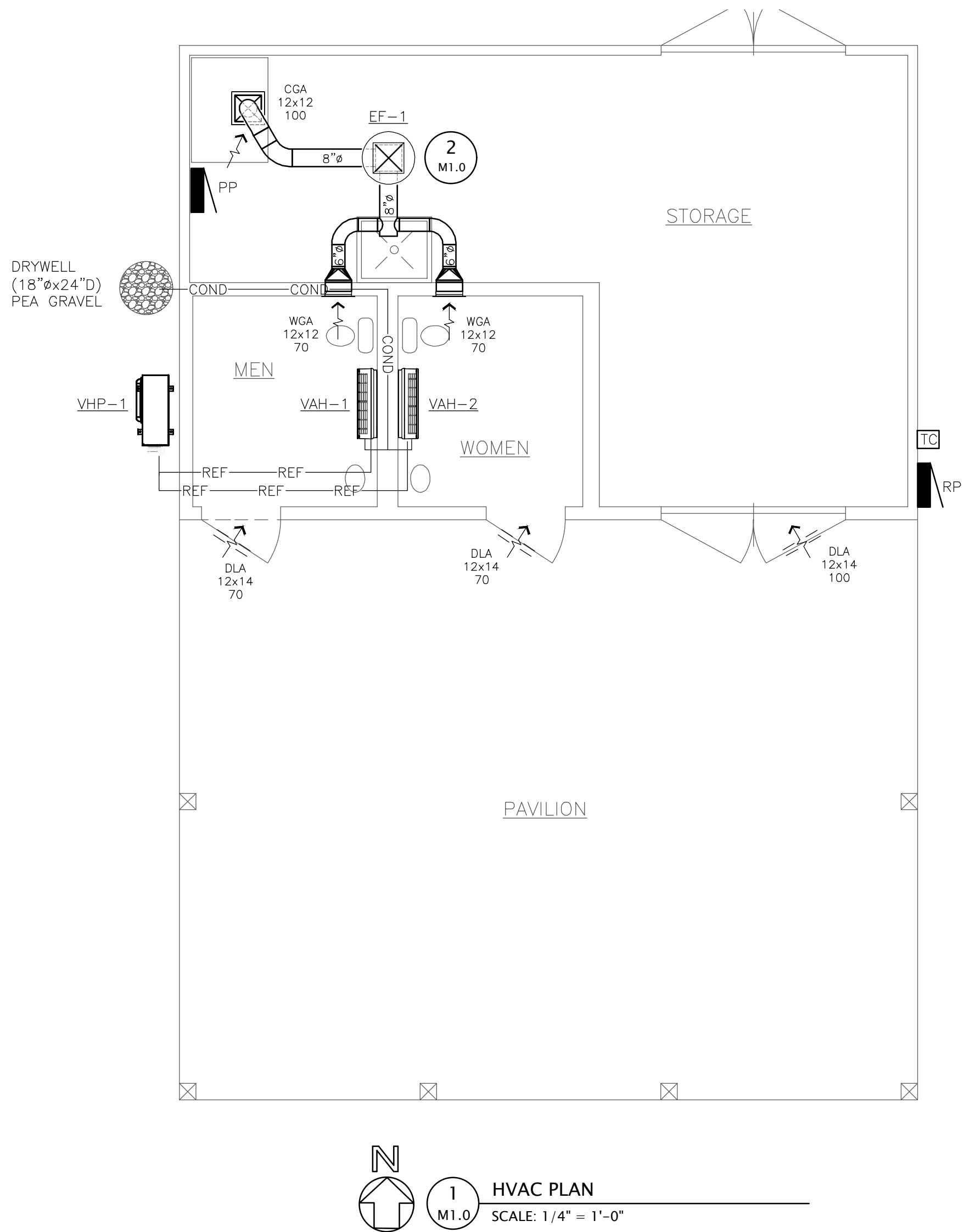
ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

- EXHAUST AIR
- BALANCING DAMPER
- THERMOSTAT
- WALL CAP
- EXHAUST FAN
- DUCT TURNING UP/DOWN
- SUPPLY AIR
- DOOR GRILLE, SIGHT-PROOF
- EXHAUST AIR
- BACK DRAFT DAMPER

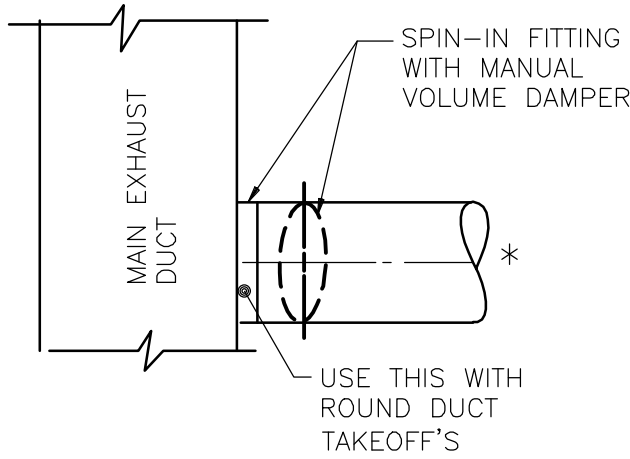
HVAC ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

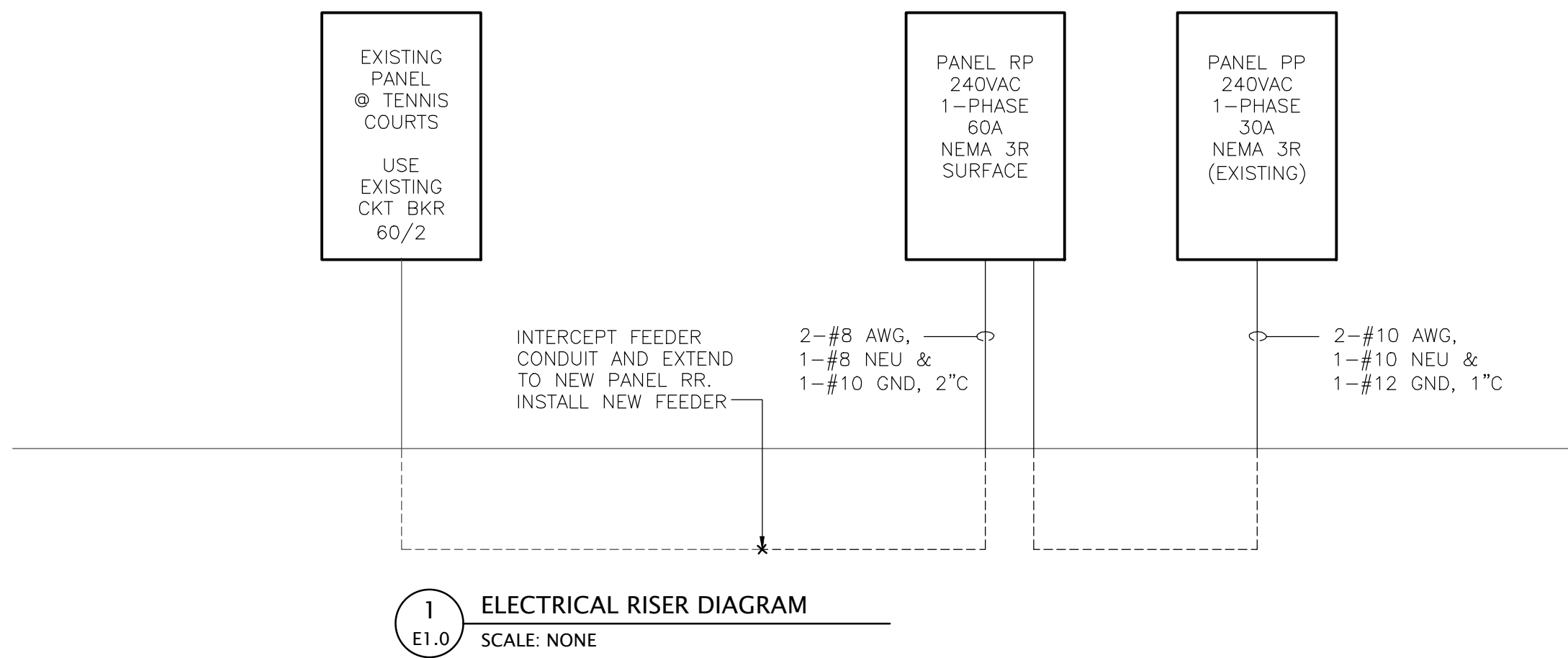
- | | |
|-------|--------------------------------|
| AFF | ABOVE FINISHED FLOOR |
| BDD | BACK DRAFT DAMPER |
| BOD | BASIS OF DESIGN |
| CEIL | CEILING |
| COND | CONDENSATE |
| DIA | DIAMETER |
| EF | ROOM EXHAUST FAN |
| EQUIP | EQUIPMENT |
| HR | HOURL |
| MAX | MAXIMUM |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| NIC | NOT IN CONTRACT |
| OA | OUTSIDE AIR |
| PENE | PENETRATION |
| RA | RETURN AIR |
| RM | ROOM |
| RND | ROUND |
| SYS | SYSTEM |
| TEMP | TEMPERATURE |
| TSTAT | THERMOSTAT |
| TYP | TYPICAL |
| VEL | VELOCITY |
| VF | VENTILATION FAN |
| W/ | WITH |



2 SHOP VENTILATION FAN DETAIL
SCALE: NONE



3 LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS
SCALE: NONE

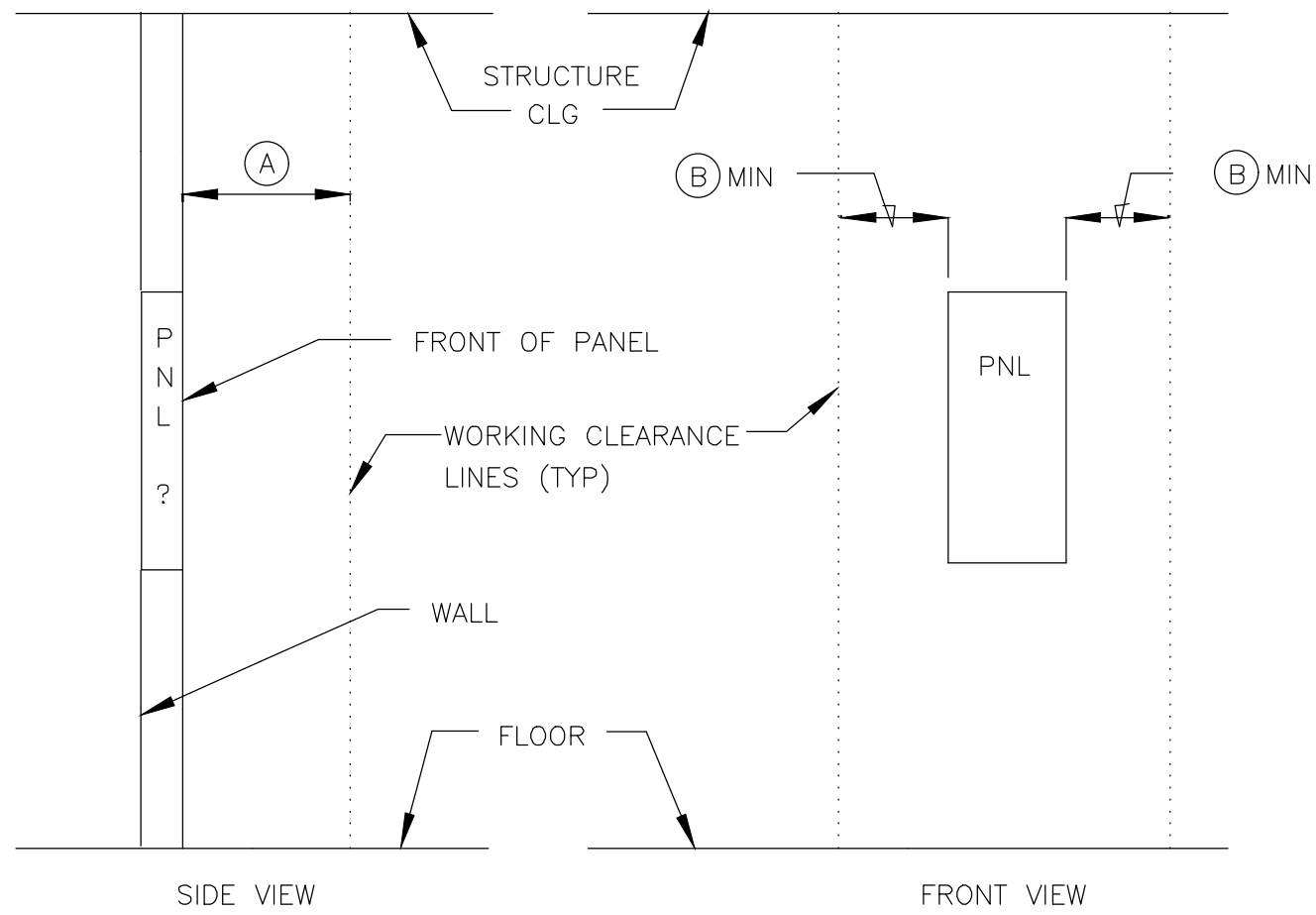
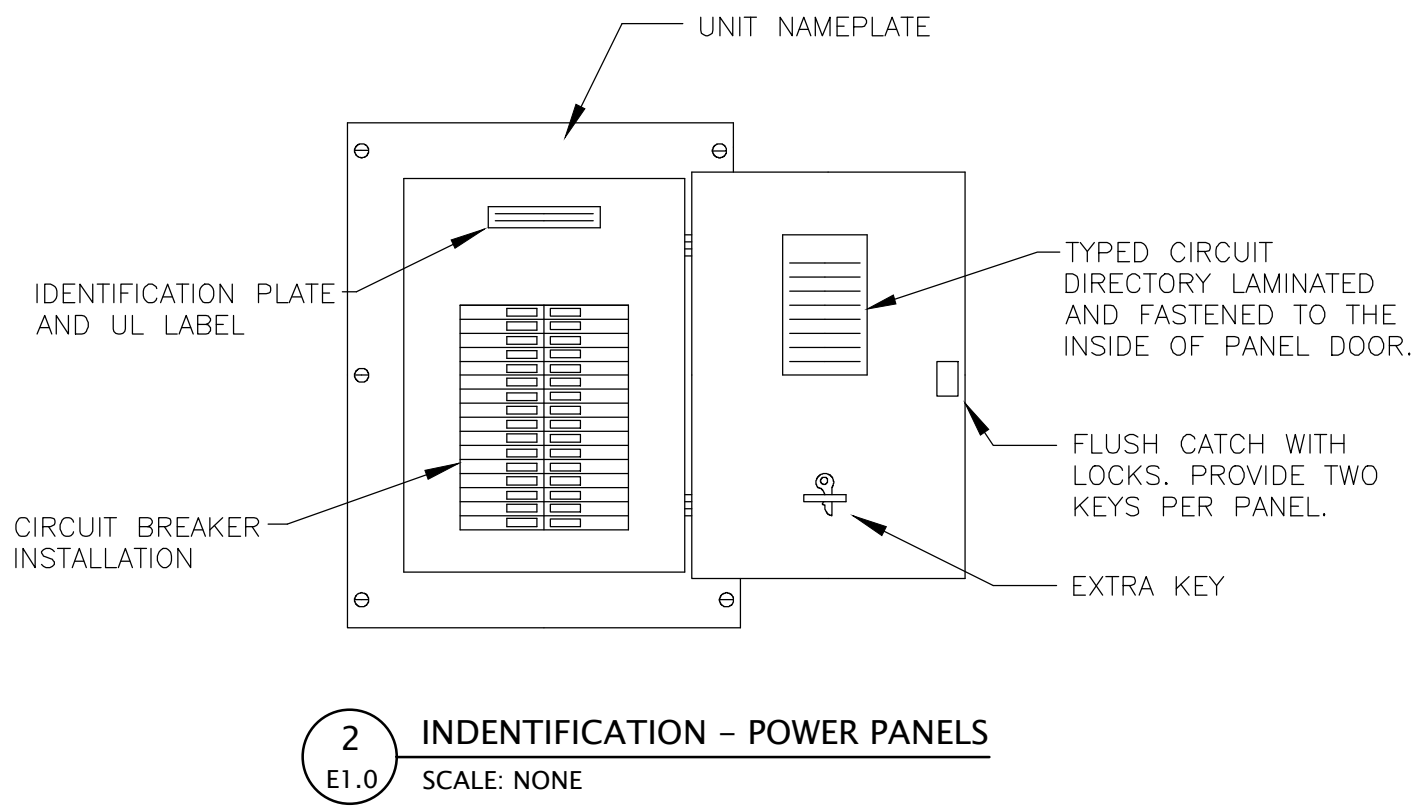


| PANEL RP | | | | | | | | | | | |
|---------------------------|-------------|-----------|------|----------------------------------|------|-----------------|------|-------------------|-----------|--------------------------|--------|
| VOLTAGE (L-N): | | | | 120 | | ENCLOSURE TYPE: | | NEMA 3R | | | |
| VOLTAGE (L-L): | | | | 240 | | MOUNTING: | | RECESSED | | | |
| PHASES, WIRES: | | | | 1 ϕ , 3 W | | AIC RATING: | | 10000 | | | |
| MINIMUM BUS CAPACITY (A): | | | | 60 A | | NOTES: | | ----- | | | |
| MAIN O.C. DEVICE (A): | | | | 60 A | | | | | | | |
| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) | | | | POLE | TRIP AMPS | DESCRIPTION | CKT NO |
| | | | | A | | B | | | | | |
| 1 | LIGHTS | 20 | 1 | 198 | 1500 | | | 1 | 20 | REC, RESTROOMS | 2 |
| 3 | LIGHTS | 20 | 1 | | | 120 | 800 | 1 | 20 | REC, STORAGE & PAVILION | 4 |
| 5 | EWB-1 | 25 | 1 | 2000 | 150 | | | 1 | 20 | EF-1 | 6 |
| 7 | SPARE | 20 | 1 | | | 0 | 0 | 1 | 20 | EXISTING SECURITY CAMERA | 8 |
| 22,24A | WELL PUMP | 30 | 2 | 0 | 0 | | | 2 | 20 | SPACE | 10,12 |
| 22,24A | WELL PUMP | 30 | 2 | | | 0 | 0 | 2 | 20 | SPACE | 10,12 |
| 13,15 | SPACE | 20 | 2 | 0 | 0 | | | 2 | 20 | SPACE | 14,16 |
| 13,15 | SPACE | 20 | 2 | | | 0 | 0 | 2 | 20 | SPACE | 14,16 |
| 17,19 | SPACE | 20 | 2 | 0 | 0 | | | 2 | 20 | SPACE | 18,20 |
| 17,19 | SPACE | 20 | 2 | | | 0 | 0 | 2 | 20 | SPACE | 18,20 |
| 21,23 | HEAT PUMP | 25 | 2 | 2000 | 2000 | | | 2 | 60 | PUMP PANEL | 22,24 |
| 21,23 | HEAT PUMP | 25 | 2 | | | 2000 | 2000 | 2 | 60 | PUMP PANEL | 22,24 |
| | | | | CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | |
| | | | | 7848 | | | | 4920 | | | |
| | | | | | | | | | | | |
| | | | | CONNECTED LOAD (kVA) | | DEMAND FACTOR | | DEMAND LOAD (kVA) | | 13.8 KVA | |
| Cooling and Heating | | | | 4.0 | | 1.00 | | 4.0 | | 0.6 KVA | |
| Heating | | | | 2.0 | | 1.00 | | 2.0 | | 2.3 AMPS | |
| Lighting | | | | 0.3 | | 1.25 | | 0.4 | | 4 % | |
| Motors | | | | 0.1 | | 1.00 | | 0.1 | | | |
| Motors (Largest) | | | | 4.0 | | 1.25 | | 5.0 | | | |
| Receptacles (0 – 10 KVA) | | | | 2.3 | | 1.00 | | 2.3 | | | |
| TOTAL: | | | | 12.8 | | | | 13.8 | | | |
| LOAD (AMPS): | | | | 53.2 | | | | 57.7 | | | |

| PANEL | | | | | | | | | | | | PP | |
|---------------------------|-------------|-----------|------|----------------------------------|------|---|------|-----------------|-----------|-------------|--------|----|--|
| VOLTAGE (L-N): | | | | 120 | | | | ENCLOSURE TYPE: | | NEMA 1 | | | |
| VOLTAGE (L-L): | | | | 240 | | | | MOUNTING: | | RECESSED | | | |
| PHASES, WIRES: | | | | 1 ϕ , 3 W | | | | AIC RATING: | | 10000 | | | |
| MINIMUM BUS CAPACITY (A): | | | | 60 A | | | | NOTES: | | ----- | | | |
| MAIN O.C. DEVICE (A): | | | | 60 A | | | | | | | | | |
| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) | | | | POLE | TRIP AMPS | DESCRIPTION | CKT NO | | |
| | | | | A | | B | | | | | | | |
| 1,3 | SPARE | 20 | 2 | 0 | 2000 | | | 2 | 20 | WELL PUMP | 2,4 | | |
| 1,3 | SPARE | 20 | 2 | | | 0 | 2000 | 2 | 20 | WELL PUMP | 2,4 | | |
| | | | | CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | | | |
| | | | | 2000 | | | | 2000 | | | | | |
| | | | | | | | | | | | | | |
| | | | | CONNECTED LOAD (KVA) | | | | DEMAND FACTOR | | | | | |
| | | | | 0.0 | | | | 1.00 | | | | | |
| Motors | | | | 0.0 | | | | 0.0 | | | | | |
| Motors (Largest) | | | | 4.0 | | | | 1.25 | | | | | |
| | | | | 5.0 | | | | | | | | | |
| | | | | DEMAND LOAD | | | | 5.0 KVA | | | | | |
| | | | | SPARE CAPACITY | | | | 9.4 KVA | | | | | |
| | | | | SPARE CAPACITY | | | | 39.2 AMPS | | | | | |
| | | | | SPARE CAPACITY | | | | 65 % | | | | | |
| TOTAL: | | | | 4.0 | | | | 5.0 | | | | | |
| LOAD (AMPS): | | | | 16.7 | | | | 20.8 | | | | | |

PANELBOARD SCHEDULE AND DETAIL NOTES:

- PANELBOARD & PANELBOARD INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 70, ART. 384. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THIS LISTING AND FULLY SUPPORTED BY MEANS DESIGNED FOR THAT LISTED INSTALLATION. ALL CLEARANCES REQUIRED BY CODE SHALL BE MAINTAINED AS MINIMUM.
- EACH PANELBOARD SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, DEVICES, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION TO PROVIDE THE DESIGNED PERFORMANCE UNDER THE AMBIENT CONDITIONS ENCOUNTERED. ALL DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION. ALL DEVICES INSTALLED SHALL HAVE AN INTERRUPTING RATING GREATER THAN OR EQUAL TO THE SPECIFIED SHORT CIRCUIT CURRENT RATING.
- EACH PANELBOARD SHALL BE FURNISHED WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE. THIS GROUND BUS SHALL BE UTILIZED TO BOND ALL GROUNDING PROVISIONS IN ORDER TO ESTABLISH EQUAL POTENTIAL TO ALL GROUNDED COMPONENTS OF THE POWER SYSTEM.
- PANELBOARD ENCLOSURES SHALL BE RIGID AND CONTAIN KNOCKOUT PROVISIONS TO FACILITATE THE TERMINATION OF THE NUMBER AND SIZE OF CONDUIT SYSTEMS INDICATED.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP AND BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
- CONDUCTORS, SPLICES AND TERMINATIONS SHALL BE ACCESSIBLE. ONLY CONDUCTORS RATED AND SIZED FOR THE TEMPERATURE OF THE TERMINATION SHALL BE USED.
- PANELBOARDS SHALL NOT BE INSTALLED NEAR SOURCES OF WATER OR COMBUSTIBLE MATERIALS.
- ADEQUATE SPACE FOR AIR CIRCULATION AND CODE COMPLIANCE SHALL BE PROVIDED AS A MINIMUM. FURNISH SPACERS, WASHERS, SUPPORTING DEVICES, ETC., AS REQUIRED TO MAINTAIN PROPER CLEARANCES.
- ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 1" EMPTY SPARE CONDUITS TO ABOVE THE NEAREST ACCESSIBLE CEILING.



PANEL CLEARANCES

SCALE: NONE

NOTES:

- DIMENSIONS SHOWN ARE MINIMUM
- WORKING CLEARANCES SHALL BE MAINTAINED FROM FLOOR TO STRUCTURAL CLG.
- SEE NFPA 70, ARTICLE 110-16

| DIMENSION BLOCK | |
|-----------------|---------|
| REF | ENGLISH |
| A | 3'-6" |
| B | 1'-3" |
| C | 6'-7" |

ELECTRICAL DESIGNATIONS

| | | |
|--|---------------------|---|
| | FIXTURE NOTE | TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP) |
| | FIXTURE NOTE | TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP) |
| | RECPT NOTE | WALL OUTLET WITH RECEPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP) |
| | HOME RUN | HOMERUN (TYP) TO PANEL 'PPA'. CONNECT TO CIRCUIT NO.'S "5, 6, & 7" ER: 3#12 (PH), 1#12 (N) & 1#12 GND |
| | MULTI-CONDUCTOR RUN | MULTI-CONDUCTED RUN (TYP) ER: 3#12 (PH), 1#12 (N) & 1#12 GND |
| | WIRE DESIGNATION | TIC INDICATES NUMBER OF CONDUCTORS, ER: 3#12 (PH), 1#12 (N) & 1#12 GND |

NOTES:

- "NL" DESIGNATION REQUIRES FIXTURE TO BE CONFIGURED FOR ONE LAMP OPERATIONAL AT ALL TIMES.
 - ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUNDING CONDUCTOR.
 - EQUIPMENT GROUND CONDUCTOR SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
#12 AWG CIRCUIT - #12 GND
#10 AWG CIRCUIT - #10 GND
#8 AWG CIRCUIT - #10 GND
 - UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.
- # OF CIRCUIT CONDUCTORS → # & 1# GND - C SIZE OF CONDUIT
- SIZE OF CIRCUIT CONDUCTORS "AWG" → SIZE OF GROUNDING CONDUCTOR "AWG"

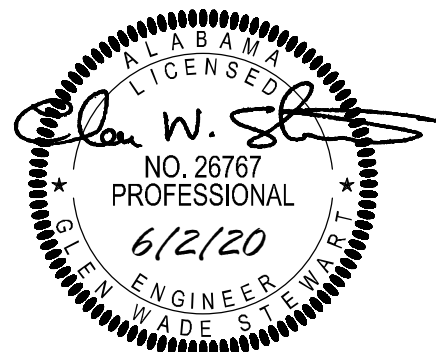
POWER & LIGHTING LEGEND

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

| | |
|--|--|
| | FIXTURE "A" - KENALL MODEL# MLHA5-48-F-MW-CP-1-45L35K-DCC-1-DV |
| | FIXTURE "B" - LITHONIA MODEL# ZLIN L48 3000LM FST MVOLT 35K |
| | FIXTURE "YE" - LITHONIA MODEL# ELM2 |
| | LIGHT FIXTURE, SURFACE MTD. / RECESSED / WALL MOUNTED. |
| | SINGLE POLE TOGGLE SWITCH, 120/277V, 20A, 3'-10" AFF |
| | MOTOR RATED SWITCH, AMPERAGE AS REQUIRED. |
| | OCCUPANCY SENSOR, WALL/CORNER, DUAL TECH, 2ND RELAY FOR EXH. FAN |
| | PHOTOCELL |
| | PANEL, LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE. |
| | FUSED DISCONNECT SPECIFY AMP/POLE |
| | NON-FUSED DISCONNECT SPECIFY AMP/POLE |
| | EXHAUST FAN FURNISHED AND INSTALLED BY HVAC. REFER TO MECHANICAL DWG'S FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS. |
| | DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A, 1'-6" AFF |
| | DUPLEX/QUAD RECEPTACLE OUTLET, 120/277V, 20A, 6" ABOVE COUNTER U.N.O. |
| | "GF"=GROUND FAULT PROTECTED BY DEVICE OR BREAKER "WP"=WEATHER RATED, GF PROTECTED WITH WHILE IN USE COVER PLATE |
| | JUNCTION BOX |
| | ABOVE GROUND CONDUIT |
| | UNDERGROUND CONDUIT |
| | TIME CLOCK. |
| | LIGHTING CONTACTOR. ELECTRICALLY HELD WITH NO. OF POLES AS INDICATED. |

ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- ALL WORK SHALL COMPLY WITH IBC 2018, NEC 2017, STATE AND LOCAL CODES. VERIFY WITH AUTHORITY HAVING JURISDICTION AND COMPLY AS REQUIRED.
- OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
- EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
- ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL "RGS" OR "MC". EMT SHALL NOT BE ACCEPTABLE. COORDINATE WITH ARCHITECT IF FINISH PAINTING SHALL BE REQUIRED.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- ALL EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND SHALL BE SERVED FROM THE SAME CIRCUIT AS THE GENERAL LIGHTING IN THE SAME AREA U.N.O.
- ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER IBC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
- ALL COMPONENTS USED IN PLENUM SPACES SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL AND SHALL BE RATED FOR INSTALLATION IN PLENUM SPACES.
- COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT.
- COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO ENSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
- AVOID PENETRATING THE OUTER SKIN OF METAL BUILDING WALLS AND ROOF. MOUNT EQUIPMENT ON STRUCTURAL COLUMNS AND PURLINS WHERE POSSIBLE. PROVIDE MOUNTING STRUT BETWEEN STRUCTURAL MEMBERS WHERE NECESSARY. FOR ANY UNAVOIDABLE ROOF PENETRATION, ENSURE THAT METAL BUILDING MANUFACTURER'S ROOF WARRANTY REQUIREMENTS ARE SATISFIED.
- CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER.
- CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT THHN INSULATION.
- ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC CONDUIT. PVC SCHEDULE 40, MAY BE INSTALLED BELOW GRADE WITH TRANSITIONS TO PVC SCH 80 IF CONCEALED WALL OR "RGS" IF EXPOSED ABOVE GRADE.
- THE USE OF MC CABLE IS PERMISSIBLE ONLY IN CONCEALED LOCATIONS AND FOR FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES.
- THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
- TELECOM OUTLETS WHERE INSTALLED ADJACENT TO RECEPTACLE OUTLETS, SHALL HAVE UNIFORM SPACING BETWEEN RESPECTIVE DEVICES, E.G. SHALL UTILIZE MOUNTING PROVISIONS BETWEEN STUDS, IF REQUIRED, TO MAINTAIN THIS REQUIREMENT.
- ALL BREAKERS ASSOCIATED WITH HVAC EQUIPMENT SHALL BE HACR RATED.



| Revisions: | | |
|------------|------|-------------|
| No. | Date | Description |
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City of Foley
Mel Roberts Park Tennis Pavilion
901 N Cedar Street
Foley, Alabama 36535

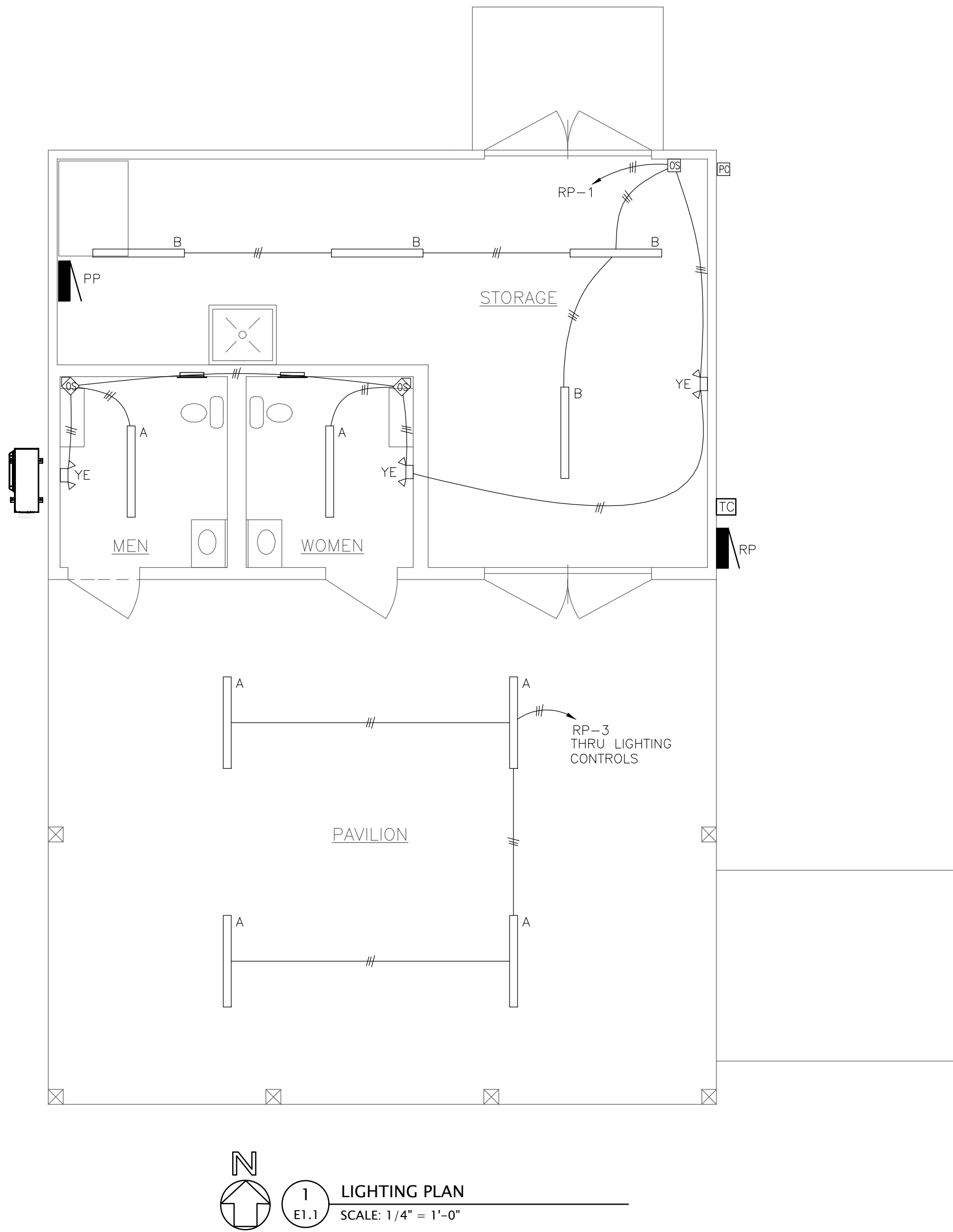
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ELECTRICAL PLAN

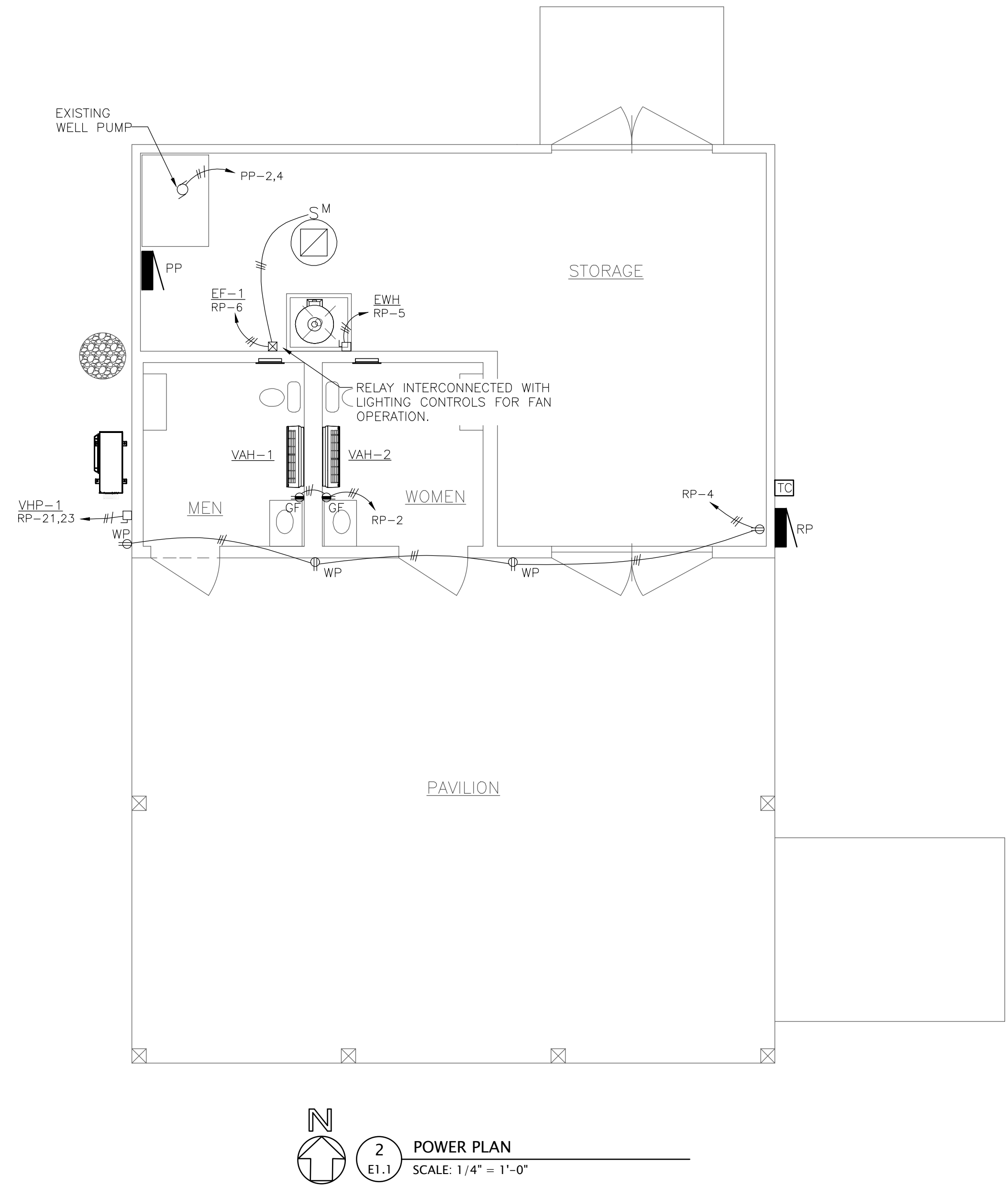
Project No.: -
Drawn By: Wade Stewart
Checked: Wade Stewart
Date: June 2, 2020

Sheet Number:

E1.0



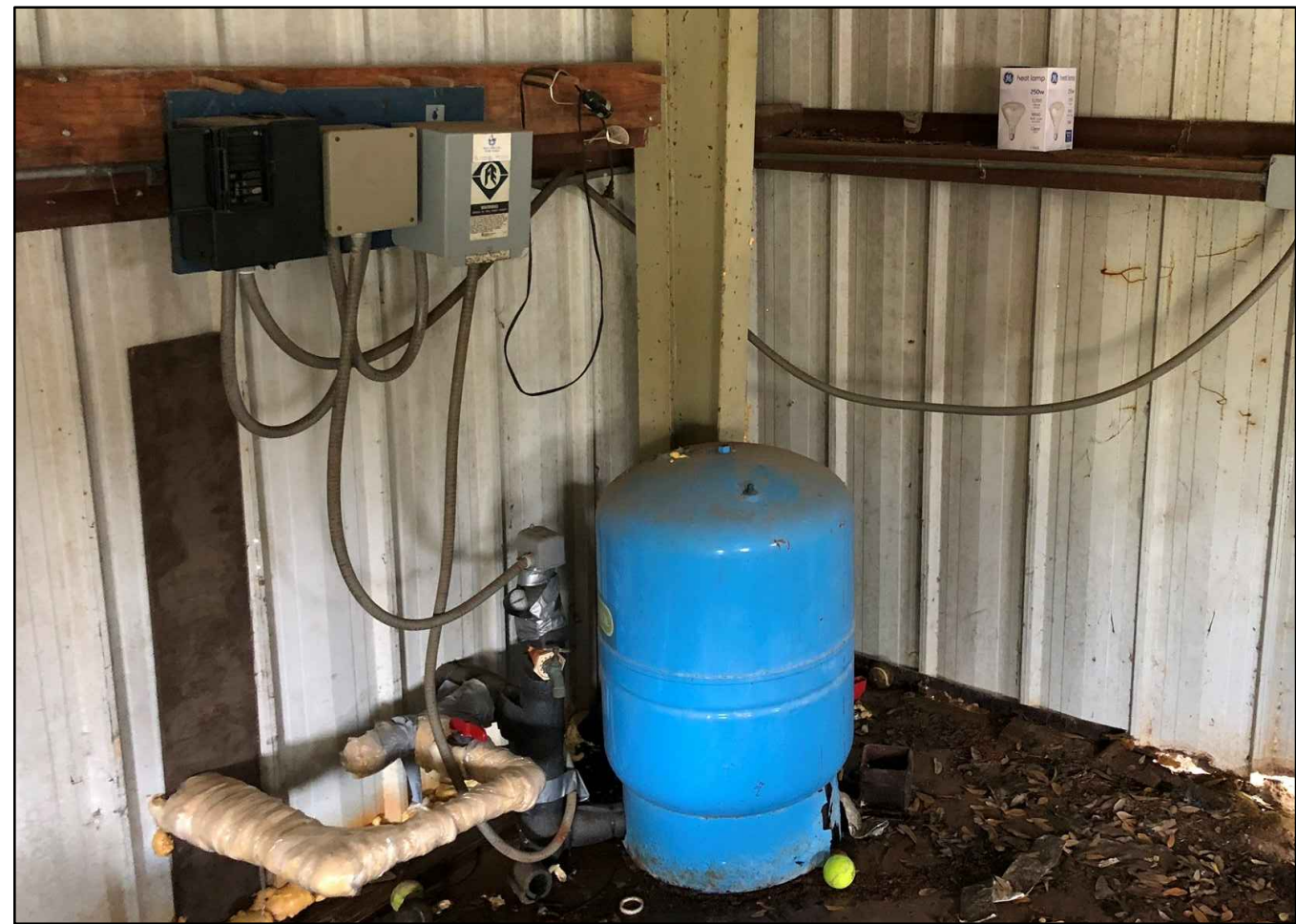
1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



2 POWER PLAN
SCALE: 1/4" = 1'-0"



3 EXISTING PANEL (~100 LF FROM PANEL RP)
E1.1



4 EXISTING WELL PUMP SYSTEM
E1.1



**STEWART ENGINEERING
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| Revisions: | | |
|------------|------|-------------|
| No. | Date | Description |
| | | |
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City of Foley
Mel Roberts Park Tennis Pavilion
901 N Cedar Street
Foley, Alabama 36535

ELECTRICAL
PLAN

Project No.: -
Drawn By: Wade Stewart
Checked: Wade Stewart
Date: June 2, 2020
Sheet Number:

E1.1

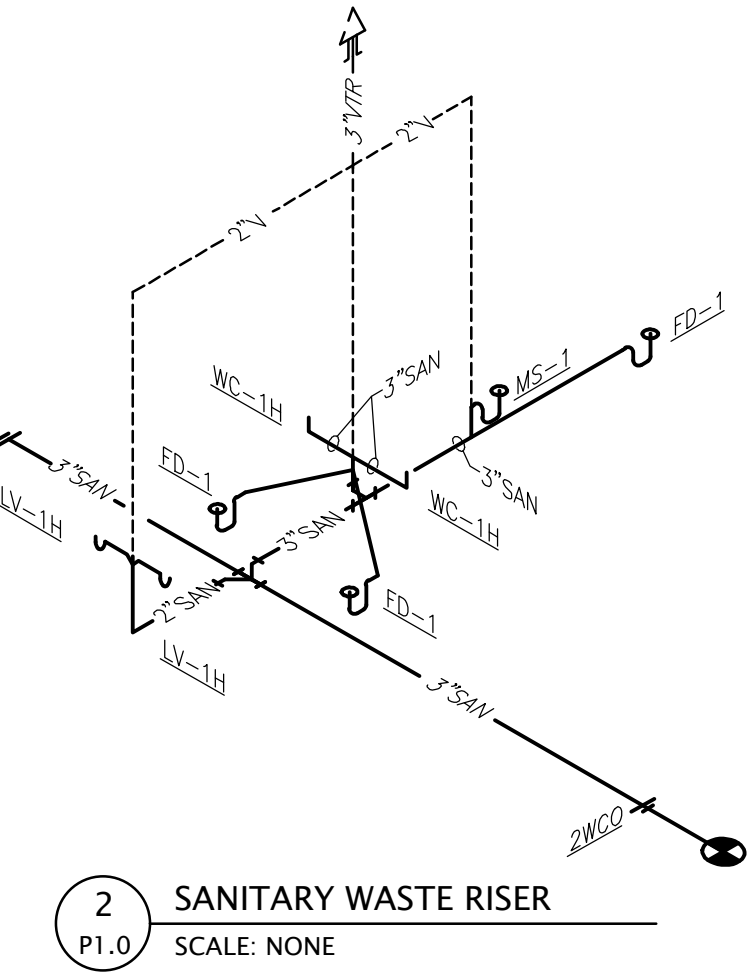
PLUMBING SYMBOL LEGEND

| | |
|-------------|--|
| ---- | DCW PIPING |
| ---- | DHW PIPING |
| —SAN— | WASTE PIPING |
| -----V----- | VENT PIPING |
| —○— | PIPE TURNING UP |
| —○— | PIPE TURNING DOWN |
| ⊙ | CLEANOUT |
| ⊙ | HOSE BIBB |
| ⊙ | WHA WATER HAMMER ARRESTOR TYPE "A" (TYP) |

PLUMBING ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.
REFER TO HVAC DRAWINGS FOR HVAC EQUIPMENT ABBREVIATIONS.

| | |
|-------|------------------------|
| AFF | ABOVE FINISHED FLOOR |
| AUX | AUXILIARY |
| CEIL | CEILING |
| CO | CLEANOUT |
| CW | COLD WATER |
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| DIA | DIAMETER |
| DST | DEEP SEAL TRAP |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EWB | ELECTRIC WATER HEATER |
| FCO | FLOOR CLEANOUT |
| FIXT | FIXTURE |
| HB | HOSE BIBB |
| HR | HOUR |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MIN | MINIMUM |
| MTR | METER |
| NIC | NOT IN CONTRACT |
| PENE | PENETRATION |
| RM | ROOM |
| SAN | SANITARY |
| SURF | SURFACE |
| SYS | SYSTEM |
| T & P | TEMPERATURE & PRESSURE |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |
| VTR | VENT TO ROOF |
| WH | WALL HYDRANT |
| WHA | WATER HAMMER ARRESTOR |
| W/ | WITH |
| YCO | YARD CLEANOUT |



2 SANITARY WASTE RISER
P1.0 SCALE: NONE

1 PLUMBING PLAN
P1.0 SCALE: 1/4" = 1'-0"

| PLUMBING FIXTURE SCHEDULE | |
|---------------------------|---|
| WC-1 | WATER CLOSET, WALL MOUNTED, SIPHON JET, STAINLESS STEEL - ACORN PENAL-WARE 1679 SERIES, 1.6GPF CONCEALED HYDRAULIC FLUSH VALVE, CONCEALED SUPPLY, HINGED SEAT. MOUNT FIXTURE WITH RIM AT 15" AFF. CONNECTIONS: CW 1-1/2", WASTE 4", VENT 2" MIN. |
| WC-1H | ADA WATER CLOSET, WALL MOUNTED, SIPHON JET, STAINLESS STEEL - ACORN PENAL-WARE 1679 SERIES, 1.6GPF CONCEALED HYDRAULIC FLUSH VALVE, CONCEALED SUPPLY, HINGED SEAT. MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1-1/2", WASTE 4", VENT 2" MIN. |
| LV-1H | LAVATORY, STAINLESS STEEL, REAR MOUNT, CHASE APPLICATION - ACORN 1652LRB, FURNISH WITH AIR-CONTROL, SINGLE TEMP. METERING. CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/2". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT. |
| FD-1 | FLOOR DRAIN, ZURN OR EQUAL, COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP, AND TRAP PRIMER CONNECTION. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER. |
| HB-1 | HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER". |
| MS-1 | MOP BASIN - ZURN Z1996-36 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN. |

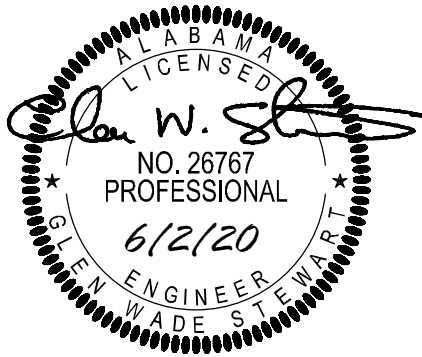
| WATER HEATER SCHEDULE | | | | | | | | | | | |
|--|-------------------|------|---------------|-------|------------------|------------------|--------------------|-----------------|-----------------|--------|-------|
| TAG | ELEC REQUIREMENTS | | HYDRONIC DATA | | | | | BASIS OF DESIGN | | OPER. | NOTES |
| | MCA | MOCP | EWT | LWT | RATE OF RECOVERY | RISE OF RECOVERY | CAPACITY (GALLONS) | | | WEIGHT | |
| | AMPS | AMPS | DEG.F | DEG.F | GAL./TIME | DEG. F | | MGFR | MODEL OR SERIES | LBS | |
| EWB-1 | 16.6 | 25 | 60°F | 140°F | 10 GPH | 80°F | 10 | RHEEM | PROE10 1 | 46 | ALL |
| NOTES: 1. 3/4" INLET/OUTLET CONNECTIONS 2. ELECTRICAL SERVICE IS 120VAC, 1-PHASE 3. 2KW SINGLE ELEMENT 4. SUPPLY 140°F WATER TO UTILITY SINK AND 110°F WATER TO LAVATORIES. LAVATORIES SHALL BE EQUIPPED INDIVIDUAL TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070 | | | | | | | | | | | |

GENERAL PLUMBING NOTES:

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE SANITARY, VENTING AND DOMESTIC WATER SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2018 INTERNATIONAL PLUMBING CODE, NFPA AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- PLUMBING PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE WATER HAMMER ARRESTORS ON POTABLE WATER ROUGH-INS AS INDICATED ON DRAWINGS.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:
A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER OR PEX.
B. LINES ABOVE GRADE SHALL BE TYPE "L" SOFT COPPER.
C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.
D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.
E. EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE.

FIXTURE CONNECTION NOTES:

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MAXIMUM OF 0.5 GPM AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.



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| Revisions: | | |
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City of Foley
Mel Roberts Park Tennis Pavilion
901 N Cedar Street
Foley, Alabama 36535

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| Title: | |
| PLUMBING PLAN | |
| Project No.: | - |
| Drawn By: | Wade Stewart |
| Checked: | Wade Stewart |
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