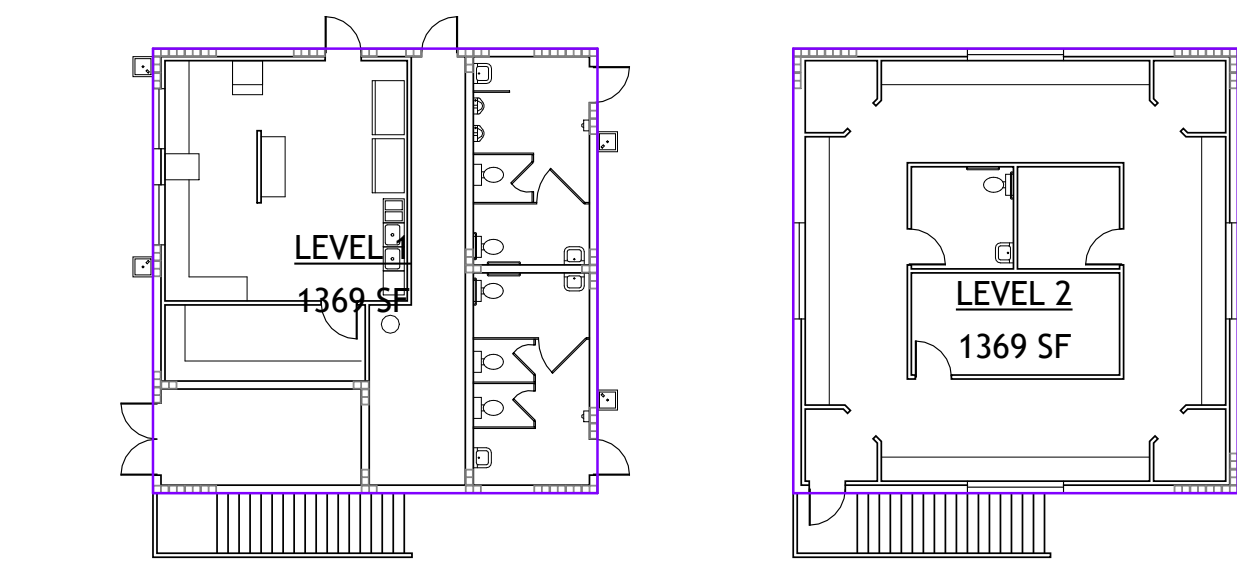




1 BUILDING A  
1/16" = 1'-0"



2 BUILDING B  
1/16" = 1'-0"

3 BUILDING C  
1/16" = 1'-0"

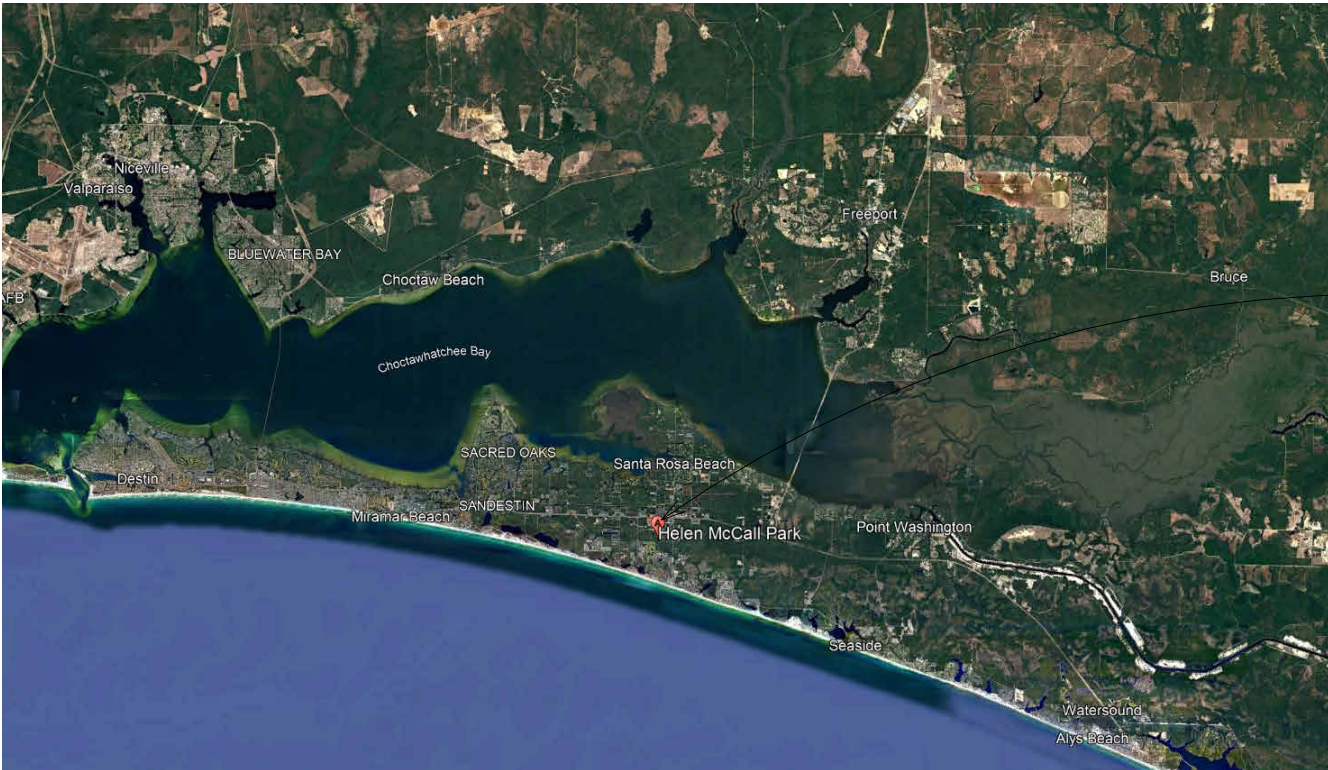
| AREA SCHEDULE |         |
|---------------|---------|
| Name          | Area    |
| BUILDING A    |         |
| LEVEL 1       | 1369 SF |
| LEVEL 2       | 1369 SF |
|               | 2738 SF |
| BUILDING B    |         |
| LEVEL 1       | 336 SF  |
|               | 336 SF  |
| BUILDING C    |         |
| LEVEL 1       | 537 SF  |
|               | 537 SF  |

## ABBREVIATIONS

|       |                           |        |                               |
|-------|---------------------------|--------|-------------------------------|
| A/C   | AIR CONDITIONING          | HORIZ  | HORIZONTAL                    |
| AFF   | ABOVE FINISHED FLOOR      | ISA    | INT'L SYMBOL OF ACCESSIBILITY |
| ACT   | ACOUSTICAL CEILING TILE   | LAV    | LAVATORY                      |
| ALUM  | ALUMINUM                  | MAX    | MAXIMUM                       |
| B/W   | BETWEEN                   | MTL    | METAL                         |
| CLG   | CEILING                   | MIN    | MINIMUM                       |
| CMT   | CENTER LINE               | MTD    | MOUNTED                       |
| CT    | CERAMIC MOSAIC TILE       | NO     | NUMBER                        |
| CL    | CERAMIC TILE              | NOM    | NOMINAL                       |
| CONC  | CONCRETE                  | NTS    | NOT TO SCALE                  |
| CMU   | CONCRETE MASONRY UNIT     | NIC    | NOT IN CONTRACT               |
| CONT  | CONTINUOUS                | OC     | ON CENTER                     |
| CJ    | CONTROL JOINT             | OH     | OVERHEAD                      |
| DR    | DOOR                      | PL     | PLATE                         |
| ELEV  | ELEVATION                 | PREFIN | PREFINISHED                   |
| EW    | EACH WAY                  | PT     | PRESSURE TREATED              |
| EW    | ELECTRIC WATER COOLER     | RL     | RAIN LEADER                   |
| EQ    | EQUAL                     | REIN   | REINFORCED                    |
| EXIST | EXISTING                  | SS     | STAINLESS STEEL               |
| EXT   | EXTERIOR                  | THK    | THICK                         |
| FIN   | FINISH                    | THR    | THRESHOLD                     |
| FF    | FINISHED FLOOR            | T&B    | TOP AND BOTTOM                |
| FACP  | FIRE ALARM CONTROL PANEL  | TYP    | TYPICAL                       |
| FEX   | FIRE EXTINGUISHER         | VERT   | VERTICAL                      |
| FEC   | FIRE EXTINGUISHER CABINET | WC     | WATER CLOSET                  |
| FD    | FLOOR DRAIN               | WD     | WOOD                          |
| FRP   | FIRE RETARDANT PAINT      | WVF    | WELDED WIRE FABRIC            |
| GALV  | GALVANIZED                | W/     | WITH                          |
| CC    | GENERAL CONTRACTOR        | XTR    | EXISTING TO REMAIN            |
| GWB   | GYPSON WALLBOARD          |        |                               |
| HC    | HANDICAPPED               |        |                               |
| HM    | HOLLOW METAL              |        |                               |

## GENERAL NOTES

- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE DESIGN TEAM OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS. STARTING FABRICATION OR BEGINNING CONSTRUCTION.
- "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- EXISTING FIELD CONDITIONS: THE CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT USING AVAILABLE INFORMATION THE CONTRACTOR IS TO ADVISE THE DESIGN TEAM IF CODE OR SAFETY CONFLICTS EXIST. THE CONTRACTOR IS REQUIRED TO INSPECT THE SITE (PRIOR TO COMMENCEMENT) TO BECOME FAMILIAR WITH CONDITIONS AND INSTALLATION DETAILS THAT WILL AFFECT HIS WORK.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES
- THE CONTRACTOR IS TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL AND PLUMBING INSPECTIONS, ETC.
- ALL DIMENSIONS ARE GIVEN TO ROUGH FRAMING AND MASONRY UNLESS NOTED.
- EXTERIOR AND INTERIOR WALL CONSTRUCTION VARIES. SEE PLANS.
- THE GENERAL CONTRACTOR SHALL AT ALL TIMES MAINTAIN ON THE JOB SITE - A COMPLETE SET OF CONSTRUCTION DOCUMENTS, ADDENDA, SUPPLEMENTAL INSTRUCTIONS, SUPPLEMENTAL DRAWINGS, MEETING NOTES, ETC.
- SLOPE GRADE & PAVED AREAS AWAY FROM THE BUILDING PERIMETER. MAINTAIN POSITIVE DRAINAGE FOR 6' OR UP TO THE P.L., WHICHEVER IS GREATER.



PROJECT LOCATION



## BUILDING CODE DATA

### APPLICABLE CODES AND REGULATIONS:

FLORIDA BUILDING CODE, 2023 8th EDITION  
NEC-2020  
NFPA 1, FIRE CODE (2021)  
NFPA 101, LIFE SAFETY CODE (2021)

### BUILDING USE DATA:

FLORIDA BUILDING CODE - 2023 8TH EDITION  
CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

304.1 BUSINESS, GROUP B  
311.1.1 ACCESSORY STORAGE SPACES

### GENERAL BUILDING DATA:

FLORIDA BUILDING CODE - 2023 8TH EDITION  
CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

### SECTION 504 - BUILDING HEIGHT AND NUMBER OF STORIES

TABLE 504.3  
BUSINESS, NO SPRINKLER, TYPE V-B - 40 FT

ALLOWABLE BUILDING HEIGHT IN FEET: 40 FT  
EXCEPTION: ROOF STRUCTURES CONSTRUCTED OF MATERIALS CONSISTENT WITH CONSTRUCTION TYPE OF BUILDING AND NOT USED FOR HABITATION OR STORAGE.

TABLE 504.4  
BUSINESS, NO SPRINKLER, TYPE V-B - 2

ALLOWABLE NUMBER OF STORIES: 2

### SECTION 506 - BUILDING AREA

TABLE 506.2  
BUSINESS, NO SPRINKLER, TYPE V-B - 9,000 SQFT

ALLOWABLE BUILDING AREA: 9,000 SQFT

### CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 602.2 CONSTRUCTION TYPE V-B, NON-SPRINKLERED

### BUILDING TYPE & PROTECTION:

#### CHAPTER 6 - TYPES OF CONSTRUCTION

|           |                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 601 | EXTERIOR BEARING WALLS & STRUCTURE: 0 HOUR<br>EXTERIOR NON-BEARING WALLS: 0 HOUR<br>INTERIOR BEARING WALLS: 0 HOUR<br>INTERIOR NON-BEARING WALLS: 0 HOUR |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

### OCCUPANT LOAD AND EGRESS DATA:

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| TABLE 1004.5      | See Occupant Load Calculation Table                                                            |
| SECTION 1006.2.1  | Minimum number of exits required: 1                                                            |
| TABLE 1006.2.1    | Spaces with one means of egress allowed: <50 persons<br>Maximum common path of egress: 75 feet |
| TABLE 1006.3.3(2) | Second floor spaces with one means of egress allowed: <30 persons                              |

### ELEVATOR REQUIREMENT

- 553.509 Vertical accessibility—
- (1) This part and the Americans with Disabilities Act Standards for Accessible Design do not relieve the owner of any building, structure, or facility governed by this part from the duty to provide vertical accessibility to all levels above and below the occupable grade level, regardless of whether the standards require an elevator to be installed in such building, structure, or facility, except for:
- (a) Elevator pits, elevator penthouses, mechanical rooms, piping or equipment catwalks, and automobile lubrication and maintenance pits and platforms.
- (b) Unoccupiable spaces, such as rooms, enclosed spaces, and storage spaces that are not designed for human occupancy, for public accommodations, or for work areas.
- (c) Occupiable spaces and rooms that are not open to the public and that house no more than five persons, including, but not limited to, equipment control rooms and projection booths.
- (d) Theaters, concert halls, and stadiums, or other large assembly areas that have stadium-style seating or tiered seating if ss. 221 and 802 of the standards are met.
- (e) All play and recreation areas if the requirements of chapter 10 of the standards are met.
- (f) All employee areas as exempted in s. 203.9 of the standards.
- (g) Facilities, sites, and spaces exempted by s. 203 of the standards.

## BUILDING DATA

|                               |                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|
| PARCEL IDENTIFICATION NUMBER: | SEE CIVIL                                                                                                        |
| ADDRESS:                      | N/A                                                                                                              |
| OCCUPANCY :                   | BUSINESS GROUP B                                                                                                 |
| FLOOD ZONE:                   | ZONE X (BUILDING A) & ZONE A (BUILDING B, BUILDING C)                                                            |
| BUILDING HEIGHT/STORIES:      | BUILDING A: 2 STORIES - 27' - 9 1/4"<br>BUILDING B: 1 STORY - 15' - 0 3/4"<br>BUILDING C: 1 STORY - 13' - 8 1/2" |
| SQUARE FOOTAGE:               | BUILDING A: 2,738 SF<br>BUILDING B: 336 SF<br>BUILDING C: 537 SF                                                 |

CD  
A

4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL CORP #AA-3314  
FL PE COA #28625

a complete engineering & construction  
management company  
TELEPHONE: (850) 837-7454 (ENGR.)  
TELEPHONE: (850) 837-7456 (INSP.)  
E-MAIL: edamad@ecm.net FAX: (850) 654-2000  
FL Certificate of Authorization #6419  
FL #66840

ECM  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: edamad@ecm.net  
John H. Elamad, PE

|                            |                    |
|----------------------------|--------------------|
| DISTRIBUTION<br>BID/PERMIT | DATE<br>10/03/2025 |
|                            |                    |
|                            |                    |
|                            |                    |

PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

SHEET TITLE:  
GENERAL  
INFORMATION  
SHEET SCALE: 1/16" = 1'-0"

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: MC  
CHECKED BY: AJV

A0.1





## AF COMPOSITE

AF-200, 217, 219, 219-1, 220

### ALL FIBERGLASS FLUSH DOORS

All Fiberglass Composite Doors offer a lightweight, economical solution for demanding environments

Special-Lite® All Fiberglass Composite Flush Doors include five models that are constructed with pultruded FRP stiles and rails, and factory bonded face sheets for durability. All models are identical with the exception of the FRP face sheet texture: AF-200 smooth, AF-217 pebble grain, AF-219 rustic wood grain, AF-219-1 contemporary wood grain, and AF-220 sandstone texture.

Install this door in a Special-Lite® FRP Frame for a long lasting, easy to clean interior or exterior entrance. Our All Fiberglass doors and frames are rust, rot, and corrosion resistant, even in the most demanding environments.

#### Features & Benefits

- Pultruded FRP stile and rail construction with mitered, bracketed corners and bonded face sheets for durability.
- Choice of smooth, pebble grain, sandstone texture, rustic wood grain, or contemporary wood grain. Door edges and FRP lite kits are painted to match face sheet color. Class A face sheets are available on some door models. Contact Special-Lite for details.
- Choice of two core materials: 2LB/ft³ EPS (expanded polystyrene) or polypropylene honeycomb.
- Pultruded fiberglass lite kits for 1/4", 5/8", or 1" glazing provide functionality and design flexibility with a clam shell design. Aluminum or EPDM lite kits are also available.
- Fiberglass louvers are available for use in doors or walls. AF Composite Doors are also compatible with Special-Lite's aluminum louvers.
- See color charts for large color selection for AF-217/220 through-colored UV-stabilized face sheets, and also the AF-200 painted face sheets. Choose a stain color for the AF-219 Rustic Wood Grain or AF-219-1 Contemporary Wood Grain Doors. All models available in custom colors.
- All AF Composite Door models are available in singles or pairs. Refer to website for maximum door size. Florida Building Code and TDI approved on certain models. Contact Special-Lite for details.



VERIFY COLOR AND TEXTURE WITH OWNER



Suitable for virtually any architectural requirements including public spaces and home use

Ideal for indoor or outdoor applications from basic installations to large-scale, complex projects

Finish options including frameless glass for the ultimate in luxury for upscale commercial applications



VERSATILITY FOR ANY APPLICATION

The Savaria V-1504 vertical platform lift is built to carry a wheelchair and passenger safely up and down one or more levels.

Suitable for installation in public and commercial buildings, as well as private homes, the Savaria lift features an extremely versatile design that can be configured and customized to suit virtually any project requirements and aesthetic needs. From the rugged outdoors, to the most luxurious office tower lobbies, the Savaria V-1504 lift is ready to serve with its reliable performance, ease of use and range of finish options.

### Savaria® V-1504 Vertical Platform Lift

VERSATILITY FOR ANY APPLICATION

**SPECIFICATIONS**

Applications: Residential, commercial, indoor, outdoor

Capacity: 750 lb (340 kg)

Maximum travel distance: 23' 0" (7 m), 12' to 14' (3.6 to 4.2 m) in some jurisdictions

Platform size: 36" x 48" (914 mm x 1219 mm) ADA compliant, (customizable up to 17.5 sq ft / 1.63 sq m) Type 1, 2 only 20 ft (6 m) x 20 ft (6 m)

Normal speed: 2 to 4 stops

Car access/configurations: Entry level, 2 to 4 stops

Power supply: 110 volt, 20 amp, single phase, 60 Hz

Drive system: 2:1 roller chain, hydraulic

Motor pump: 3 hp, gear type

Controller: Relay logic

Emergency operation: Battery-operated lowering with automatic recharging system, plus remote access manual lowering valve, optional battery backup

Rail construction: 8" modular guide rail assembly with roller guide shoes

Side guards: 42" (1067 mm) 80" (2032 mm) optional

Finish: Beige powder-coated steel, optional and custom colors available

Warranty: 36 months parts, ask for details

**ADDITIONAL OPTIONS**

Other options include ADA hands-free phone, folding seat and 60 mm buttons, as well as full battery backup operation. Add Savaria Lift with diagnostic system for faster dealer troubleshooting. The Savaria One Touch Alert System provides two-way voice communications using a pre-paid, owner-supplied nano sim-card.

A variety of paint colors and textures are available including custom RAL colors. Please consult your local dealer for a full list of options available for your application.

**ALUMINUM/ACRYLIC MODEL (V-1504 ALPE)**

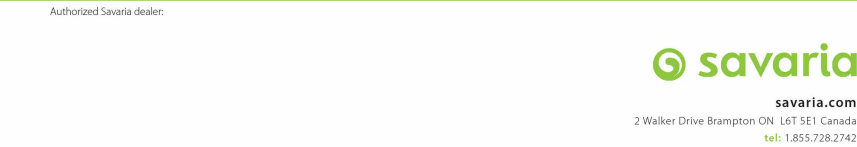
The aluminum/acrylic model can be ordered with an additional package that includes two custom-colored exterior handrails. The acrylic finish or color is optional. Custom colors are also available for interior glass panels. The steel construction system keeps the inside comfortable and the glass and door can be reinforced.

**LUXURY FRAMED (V-1504 LUX)**

This luxury framed model features handrails, stainless steel, 4 finish and tempered or laminated glass inserts making a beautiful complement for lobbies and interior architectural settings.

**PRESTIGE FRAMELESS (V-1504 PRESTIGE)**

Configure up to 23' of travel distance with up to four stops, with a full range of finishes and steel configurations available. The aluminum/acrylic model can be ordered with an additional package that includes two custom-colored exterior handrails. The acrylic finish or color is optional. Custom colors are also available for interior glass panels. The steel construction system keeps the inside comfortable and the glass and door can be reinforced.



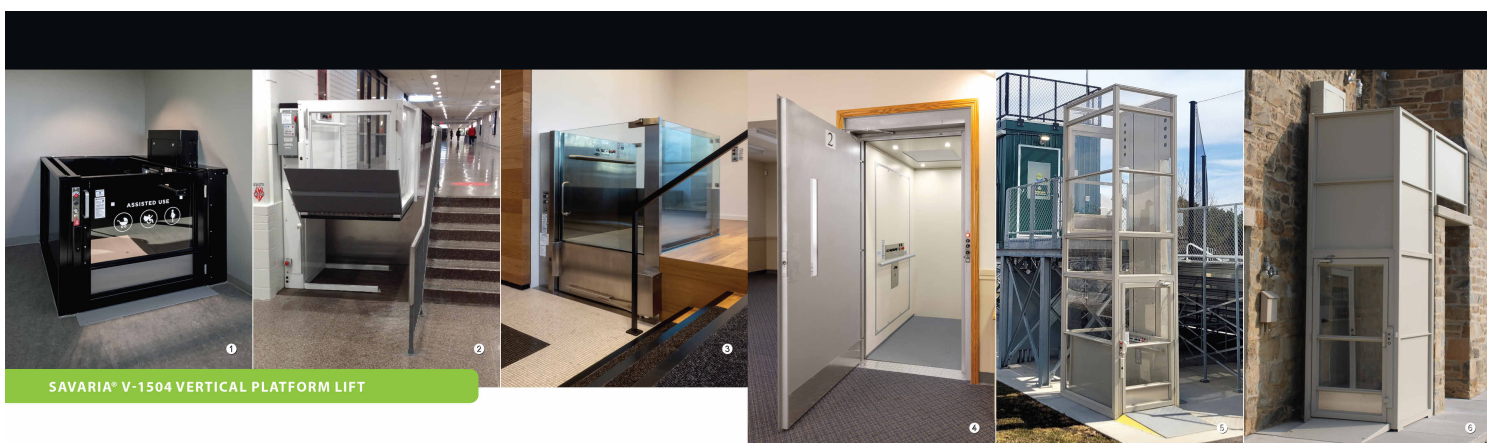
VERSATILITY FOR ANY APPLICATION

Authorized Savaria Dealer

**savaria**

3 Walker Drive, Birmingham, OH 43401, USA  
Tel: 1-800-732-7342

Savaria makes every effort to publish accurate information. Some specifications, options or features may vary by market or change without notice. ©2023 Savaria Corporation.



The Savaria V-1504 vertical platform lift is available in a range of base models, all with options and configurations for customization to your needs.

**STANDARD (V-1504 STD)**

Meets the most common applications and home use. The lift can be used indoors and outdoors to travel a standard 48" with 2 stops or optionally more distance and steps. The standard unit can also be modified inside commercial buildings.

**ALUMINUM/ACRYLIC MODEL (V-1504 ALPE)**

The aluminum/acrylic model can be ordered with an additional package that includes two custom-colored exterior handrails. The acrylic finish or color is optional. Custom colors are also available for interior glass panels. The steel construction system keeps the inside comfortable and the glass and door can be reinforced.

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**Insulation notes:**

- Insulation packages with optional heat-powered coat (open landing gate with glass insert)
- Reinforced interior application (in general only with platform gate and acrylic insert) (insulation of platform gate)
- Single frameless model with reinforced glass and optional steel (insulation of platform gate)
- Insulation of platform gate (insulation of platform gate)
- Insulation of platform gate (insulation of platform gate)

**SMOOTH HYDRAULIC 2:1 GEAR DRIVE SYSTEM**

The lift provides a high efficiency, reliable and maintenance-free drive system. It features a high efficiency motor and a 2:1 gear drive system. It features a high efficiency motor and a 2:1 gear drive system.

**LARGE PLATFORM FOR EASY ACCESS**

The standard platform is 36" by 48" (914 mm x 1219 mm) ADA compliant and meets platform size and weight standards.

**EMERGENCY BACK-UP SYSTEMS**

In addition to a manual lowering system, the lift features a 24V battery-powered lowering system for use in the event of a power failure. Optionally, a battery backup operating system can be added to ensure full functionality of the lift for emergencies.

**EXTENSIVE FINISH OPTIONS**

Choose standard large powder coat, or select from two optional color finishes. All finish require your own custom color. Include your lift with acrylic or glass panels.

**EMERGENCY BACK-UP SYSTEMS**

In addition to a manual lowering system, the lift features a 24V battery-powered lowering system for use in the event of a power failure. Optionally, a battery backup operating system can be added to ensure full functionality of the lift for emergencies.

**MAINTENANCE-FREE**

The Savaria V-1504 does not require a machine room to house the drive components, simplifying the installation process. Alternatively, the drive system can be housed in a remote machine room for silent operation.

\*Standard hydraulic platform door for indoor use and optional steel door for outdoor use.

### HIGHLANDER II WITH ENCLOSURE

#### VERTICAL PLATFORM LIFT ENCLOSURE KIT



Vertical Platform Lifts are required to be enclosed when they have a lifting height of 60" or above for commercial applications and/or when they generate a floor. The enclosure kit allows for an integrated solution instead of constructing a hoistway.



#### KEY AVAILABLE FEATURES:

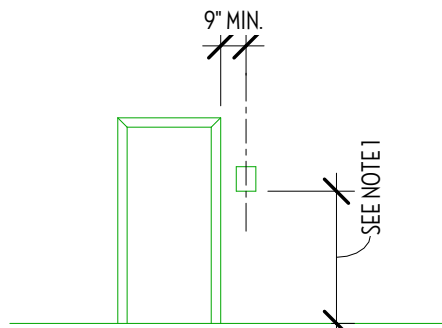
- Choice of acrylic or steel panels
- Acrylic roof with ventilation system
- Steel frame with Saffair powder coat
- 48" floor door and upper landing gate
- Through-bolt fastening system for enhanced rust protection

| HIGHLANDER II WITH ENCLOSURE PRODUCT SPECIFICATIONS |                                               |          |                                                  |
|-----------------------------------------------------|-----------------------------------------------|----------|--------------------------------------------------|
| WEIGHT CAPACITY                                     | 750 lb                                        | SPEED    | 9.5 to 15 FPM                                    |
|                                                     | ACME screw drive                              |          | 120V AC                                          |
| DRIVE                                               | 90% 1/2 HP fully sealed DC gear motor         | POWER    | 15 AMP circuit breaker                           |
|                                                     | 36" x 60" clear platform with 42" guard panel |          | WARRANTY                                         |
| PLATFORM SIZES                                      | 42" x 60" clear platform with 42" guard panel |          | 3-year                                           |
|                                                     | 42" x 60" clear platform with 42" guard panel | FEATURES | 4" x 5" constant pressure paddle control         |
| CERTIFIED                                           | ETL listed                                    |          | 3-stop with 3-button control panel               |
|                                                     | CSA B44 S/ASME A17.5-2019                     | OPTIONS  | 36" or 42" upper landing door with EMI interlock |
| SAFETY FEATURES                                     | Safety standard ASME A18.1-2020               |          | Battery backup UPS system                        |
|                                                     | Rated commercial and residential              | OTHERS   | Fire-rated doors                                 |
| OTHERS                                              | 4 LED indicators in top cap                   |          | Glass bar in platform                            |
|                                                     | Emergency stop button in platform             | OTHERS   | Key lock in platform                             |
| OTHERS                                              | Overload protection                           |          | Safety gate                                      |
|                                                     | Interlocks for door/gates                     | OTHERS   | Wired or wireless call/send control              |
|                                                     | Manual lowering tool                          |          |                                                  |



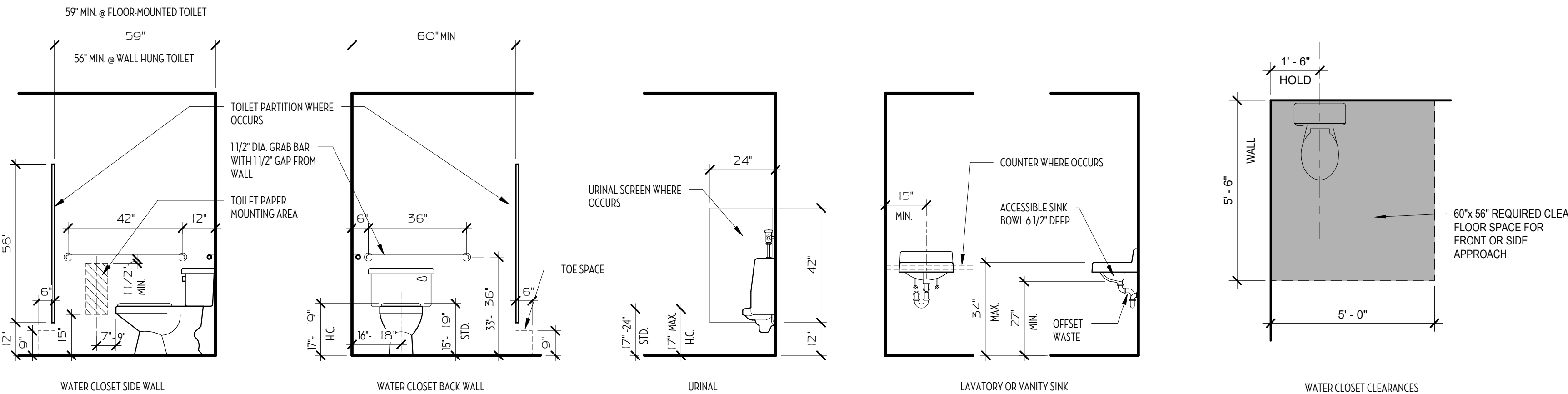
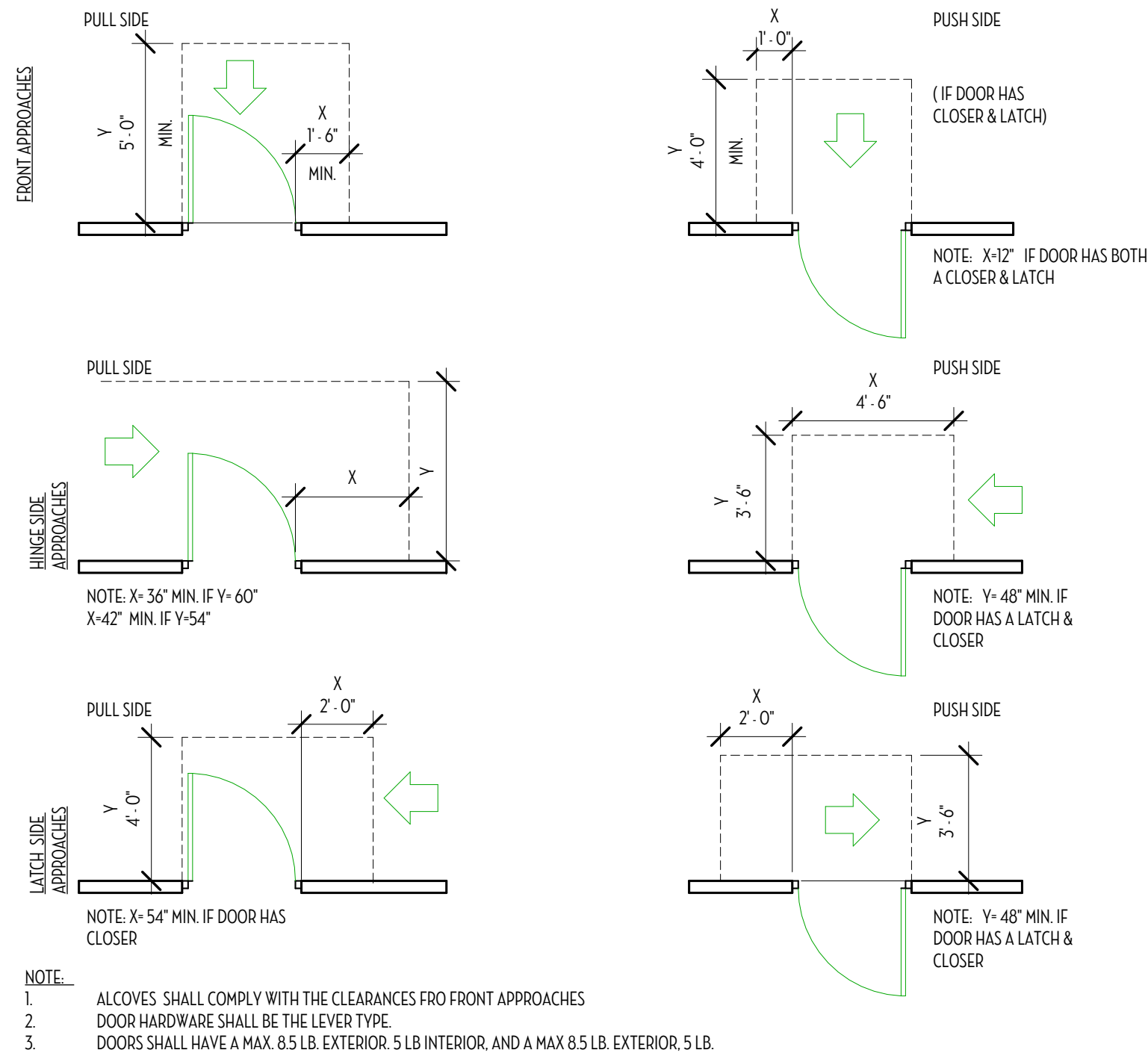
Harmar.com  
800.833.0478

15AMP / 120V / 15 FPM



### SIGNAGE NOTES:

- MAXIMUM HEIGHT OF TACTILE CHARACTERS IS 60" ABOVE FLOOR TO BASELINE OF CHARACTERS
- MINIMUM HEIGHT OF TACTILE CHARACTERS IS 48" ABOVE FLOOR TO BASELINE OF CHARACTERS
- SIGNS THAT IDENTIFY A ROOM, SPACE OR AREA SHALL HAVE RAISED CHARACTERS AND BRAILLE
- SIGNS SHALL HAVE A NON-GLARE FINISH WITH CONTRASTING COLORS
- PICTOGRAMS SHALL BE IN THEIR OWN 6" HIGH FIELD, ABOVE THE ISA SYMBOL IF ACCESSIBLE
- CHARACTERS SHALL BE SANS SERIF AND ALL UPPERCASE
- CHARACTERS MUST BE BETWEEN 5/8" AND 2" WITH A MINIMUM OF 1/8" SPACING
- FONT SHALL BE ADA COMPLIANT
- 3/8" MINIMUM MARGIN IS REQUIRED AROUND ALL RAISED ELEMENTS INCLUDING BRAILLE
- 1" HIGH SPACE IS REQUIRED FOR ONE LINE OF BRAILLE
- BRAILLE SHALL BE ALL TOGETHER AND 3/8" TO 1/2" BELOW LAST LINE OF TEXT
- WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL



### TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



MEN

CORRESPONDING GRADE 2 CLEAR RASTER STYLE BRAILLE

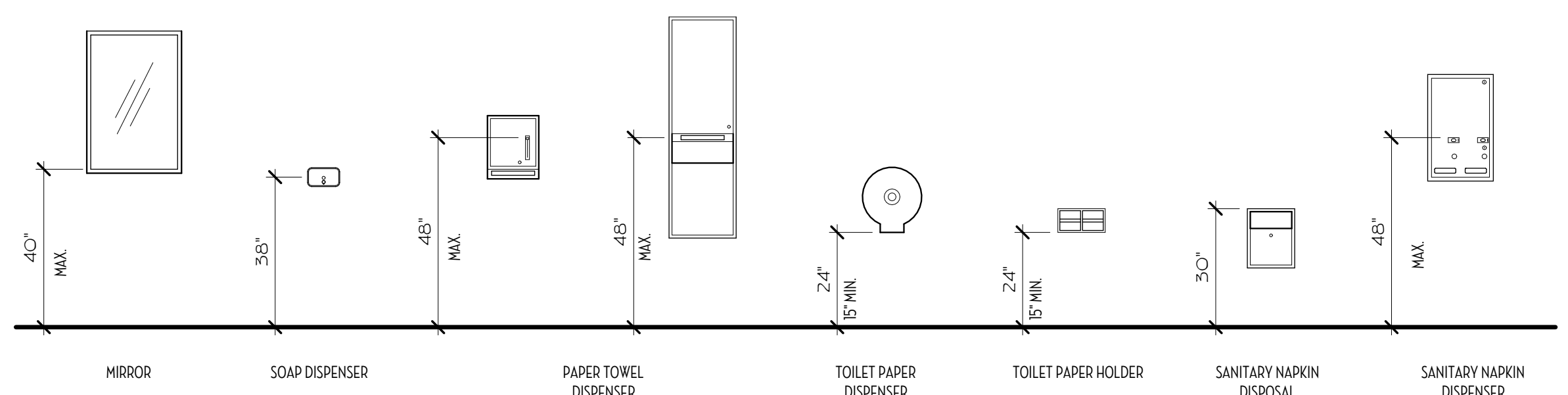


WOMEN

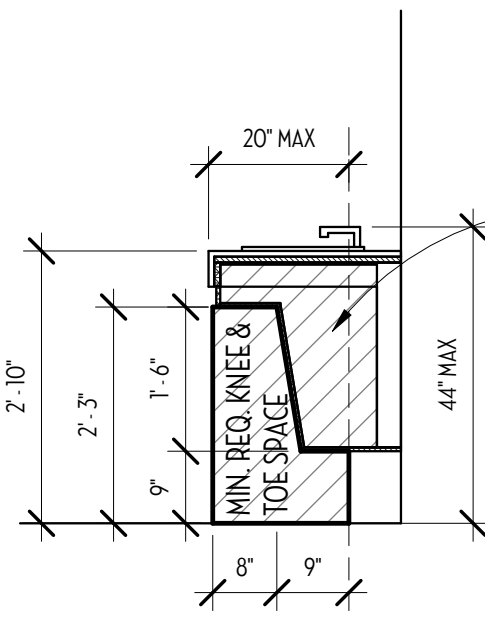
CORRESPONDING GRADE 2 CLEAR RASTER STYLE BRAILLE

INTERNATIONAL TOILET FACILITY SYMBOLS ARE REQUIRED ON WALL SIGN BUT NOT ON DOOR SIGN IN THE SAME CONTRASTING COLOR.

NOTE: SIGNAGE COLOR AND LETTER SIZE SHALL COMPLY WITH LOCAL CODE AND ADA REQUIREMENTS



### TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS



### TYPICAL LAVATORY

BUILD OUT AREA UNDER SINK TO CONCEAL PLUMBING, COUNTER TO BE MOUNTED WITH 3X3 STEEL BRACKETS. PROVIDE PTD. PLYWOOD FINISH WITH REMOVABLE ACCESS PANELS TO SERVICE PLUMBING

CD  
A

4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

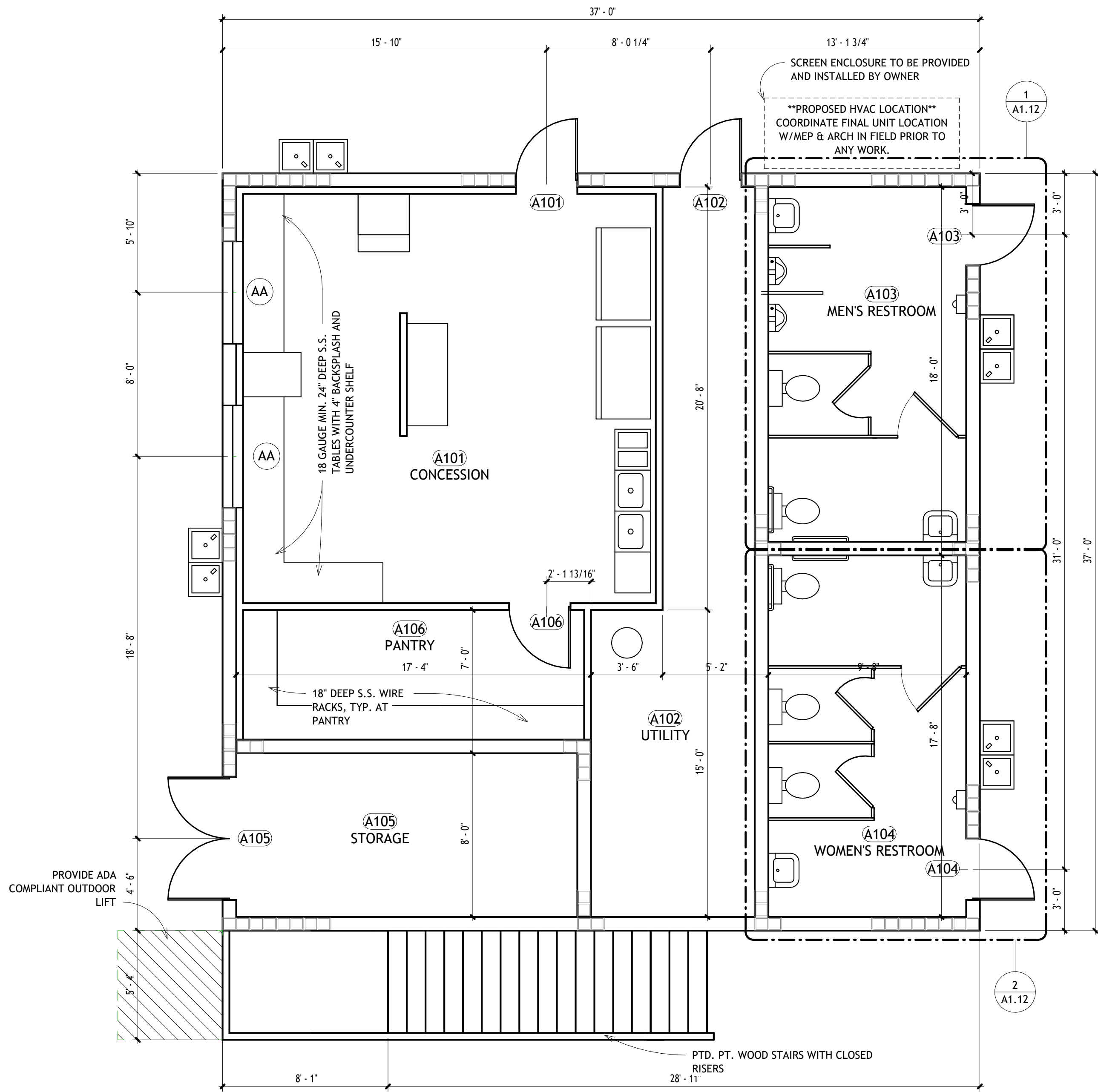
FL CORP #AA-3314  
FL PE COA #28625

a complete engineering & construction management company  
TELEPHONE: (850) 837-4545 (ENG.)  
TELEPHONE: (850) 837-4546 (NSP)  
FAX: (850) 654-2000  
FL Certificate of Authorization #6819

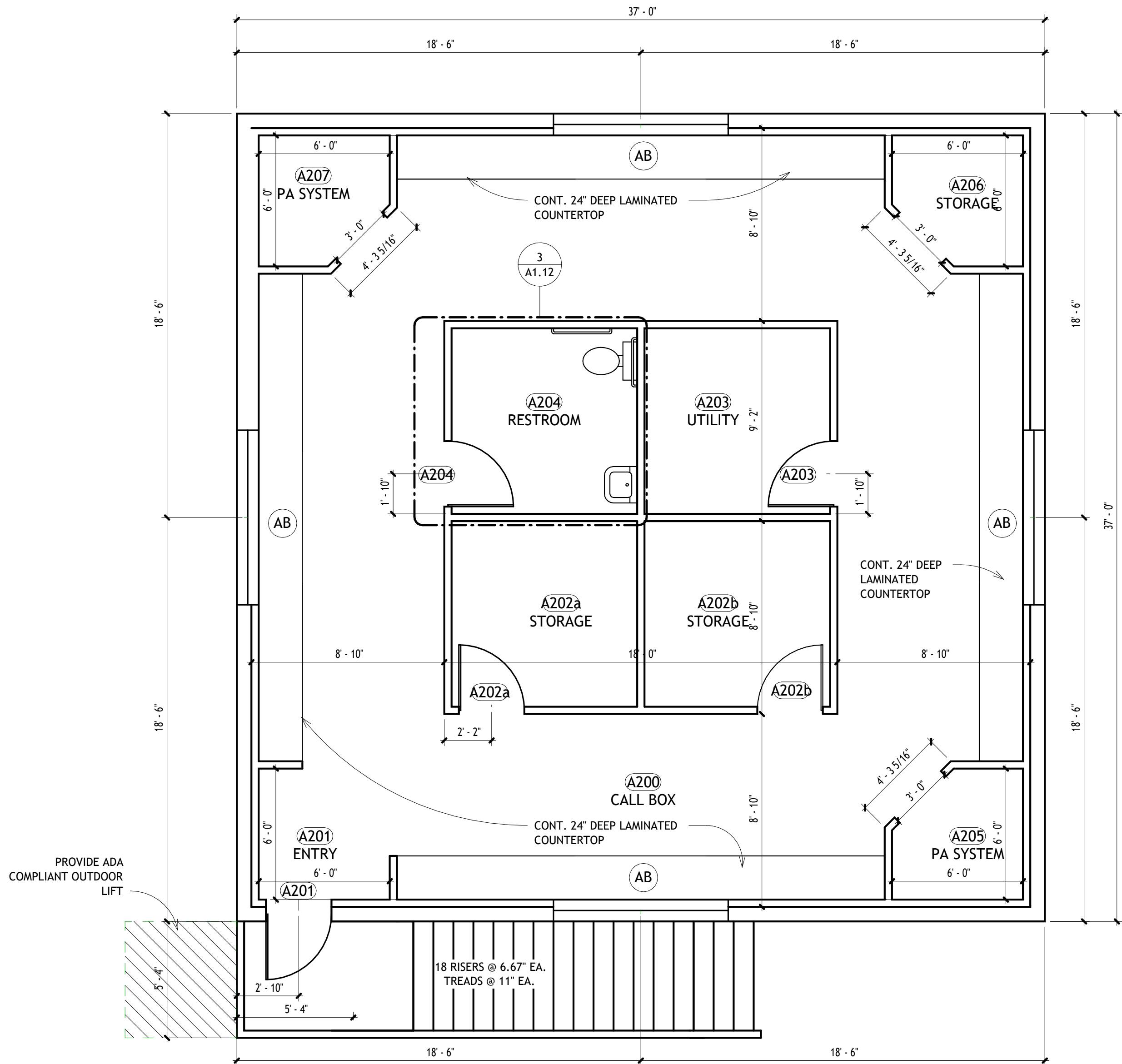
ECM  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: claudia@ecm.net  
John H. Elam, PE  
FL #68840

DATE  
10/03/2025  
DISTRIBUTION  
BID/PERMIT  
PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA  
SHEET TITLE:  
ADA STANDARDS & CUTSHEETS  
SHEET SCALE: As indicated  
JOB NO.: 2506  
DATE: 10/03/25  
DRAWN BY: MC  
CHECKED BY: AJV  
A0.2





1 BUILDING A - FIRST FLOOR PLAN  
1/4" = 1'-0"



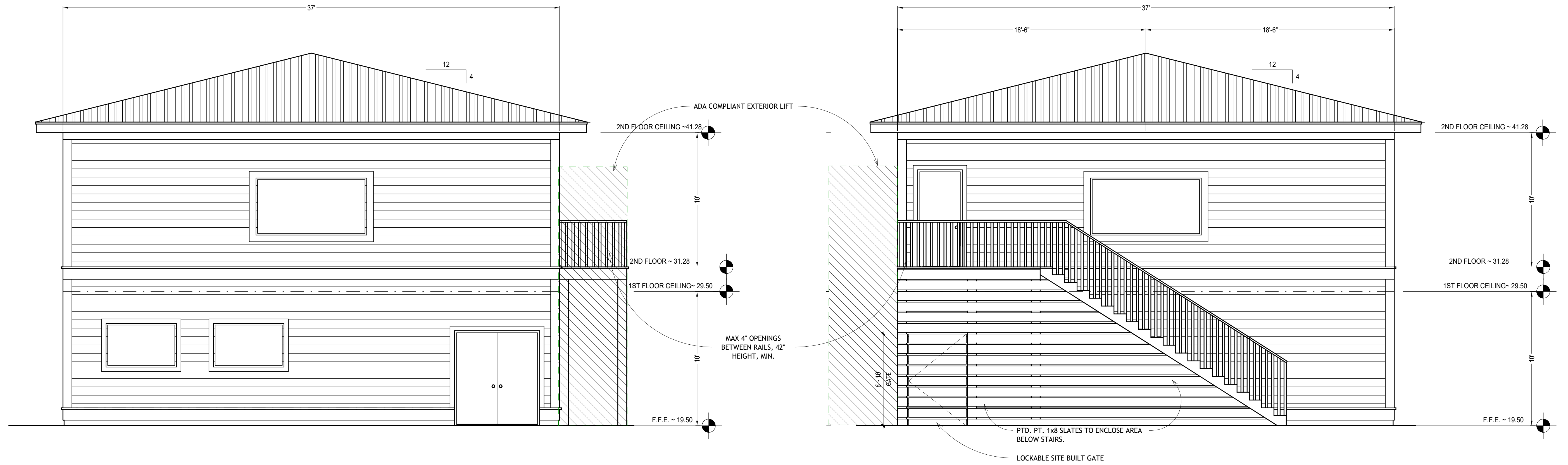
2 BUILDING A - SECOND FLOOR PLAN  
1/4" = 1'-0"

| BUILDING A - DOOR SCHEDULE |         |         |                                                            |
|----------------------------|---------|---------|------------------------------------------------------------|
| TYPE                       | WIDTH   | HEIGHT  | DESCRIPTION                                                |
| A101                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE                      |
| A102                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE                      |
| A103                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER |
| A104                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER |
| A105                       | 6' - 0" | 7' - 0" | DOUBLE CORRIM FIBERGLASS DOOR WITH CONTINUOUS HINGE        |
| A106                       | 3' - 0" | 7' - 0" | HOLLOW METAL FRAME WITH WOOD DOOR SLAB                     |
| A201                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE                      |
| A202a                      | 3' - 0" | 7' - 0" | HOLLOW METAL FRAME WITH WOOD DOOR SLAB                     |
| A202b                      | 3' - 0" | 7' - 0" | HOLLOW METAL FRAME WITH WOOD DOOR SLAB                     |
| A203                       | 3' - 0" | 7' - 0" | HOLLOW METAL FRAME WITH WOOD DOOR SLAB                     |
| A204                       | 3' - 0" | 7' - 0" | HOLLOW METAL FRAME WITH WOOD DOOR SLAB                     |

| BUILDING A - WINDOW SCHEDULE |         |         |                                  |
|------------------------------|---------|---------|----------------------------------|
| TYPE                         | WIDTH   | HEIGHT  | DESCRIPTION                      |
| AA                           | 5' - 0" | 3' - 0" | ROLL-UP SERVING WINDOW - IMPACT  |
| AA                           | 5' - 0" | 3' - 0" | ROLL-UP SERVING WINDOW - IMPACT  |
| AB                           | 8' - 0" | 4' - 0" | FIXED WINDOW - IMPACT PGT, VINYL |
| AB                           | 8' - 0" | 4' - 0" | FIXED WINDOW - IMPACT PGT, VINYL |
| AB                           | 8' - 0" | 4' - 0" | FIXED WINDOW - IMPACT PGT, VINYL |
| AB                           | 8' - 0" | 4' - 0" | FIXED WINDOW - IMPACT PGT, VINYL |

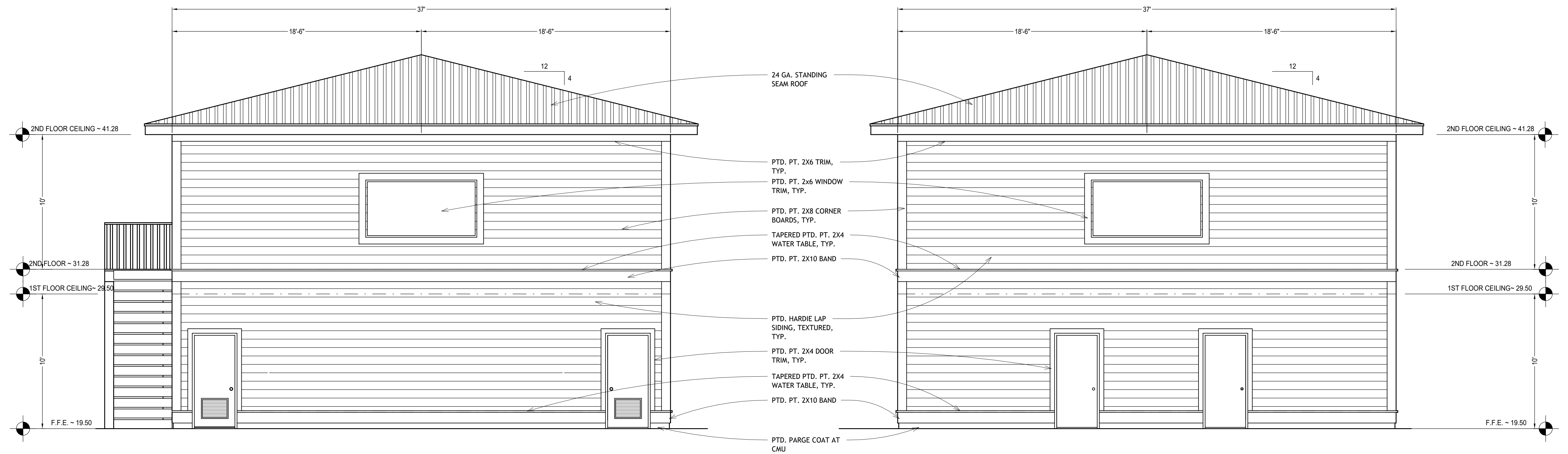
| BUILDING A - ROOM SCHEDULE |                  |                        |                     |                                    |                      |
|----------------------------|------------------|------------------------|---------------------|------------------------------------|----------------------|
| ROOM NO.                   | ROOM NAME        | FLOOR FINISH           | BASE                | WALL FINISH                        | CEILING FINISH       |
| A101                       | CONCESSION       | RESINOUS FLOOR COATING | RESINOUS COVE       | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A102                       | UTILITY          | RESINOUS FLOOR COATING | RESINOUS COVE       | PTD. 5/8" GREEN BOAR / EPOXY PAINT | PTD. 5/8 GREEN BOARD |
| A103                       | MEN'S RESTROOM   | RESINOUS FLOOR COATING | RESINOUS COVE       | EPOXY PAINT                        | PTD. 5/8 GREEN BOARD |
| A104                       | WOMEN'S RESTROOM | RESINOUS FLOOR COATING | RESINOUS COVE       | EPOXY PAINT                        | PTD. 5/8 GREEN BOARD |
| A105                       | STORAGE          | SEALED CONCRETE        | NONE                | 5/8 PLYWOOD                        | 5/8 PLYWOOD          |
| A106                       | PANTRY           | RESINOUS FLOOR COATING | RESINOUS COVE       | PTD. 5/8" GREEN BOAR / EPOXY PAINT | PTD. 5/8 GREEN BOARD |
| A200                       | CALL BOX         | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A201                       | ENTRY            | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A202a                      | STORAGE          | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A202b                      | STORAGE          | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A203                       | UTILITY          | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A204                       | RESTROOM         | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A205                       | PA SYSTEM        | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A206                       | STORAGE          | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |
| A207                       | PA SYSTEM        | GLUE DOWN LINOLEUM     | 4" RUBBER COVE BASE | PTD. 5/8" GREEN BOARD              | PTD. 5/8 GREEN BOARD |





① BUILDING A - ELEVATION 1  
1/4" = 1'-0"

② BUILDING A - ELEVATION 2  
1/4" = 1'-0"



③ BUILDING A - ELEVATION 3  
1/4" = 1'-0"

④ BUILDING A - ELEVATION 4  
1/4" = 1'-0"

CD  
A

4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL CORP #AA-3314  
FL PE COA #28625

a complete engineering & construction  
management company  
TELEPHONE: (850) 837-7454 (ENGR.)  
TELEPHONE: (850) 837-7456 (INSP.)  
FAX: (850) 654-2000  
FL Certificate of Authorization #6119

ECM  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: edward@ecm.net  
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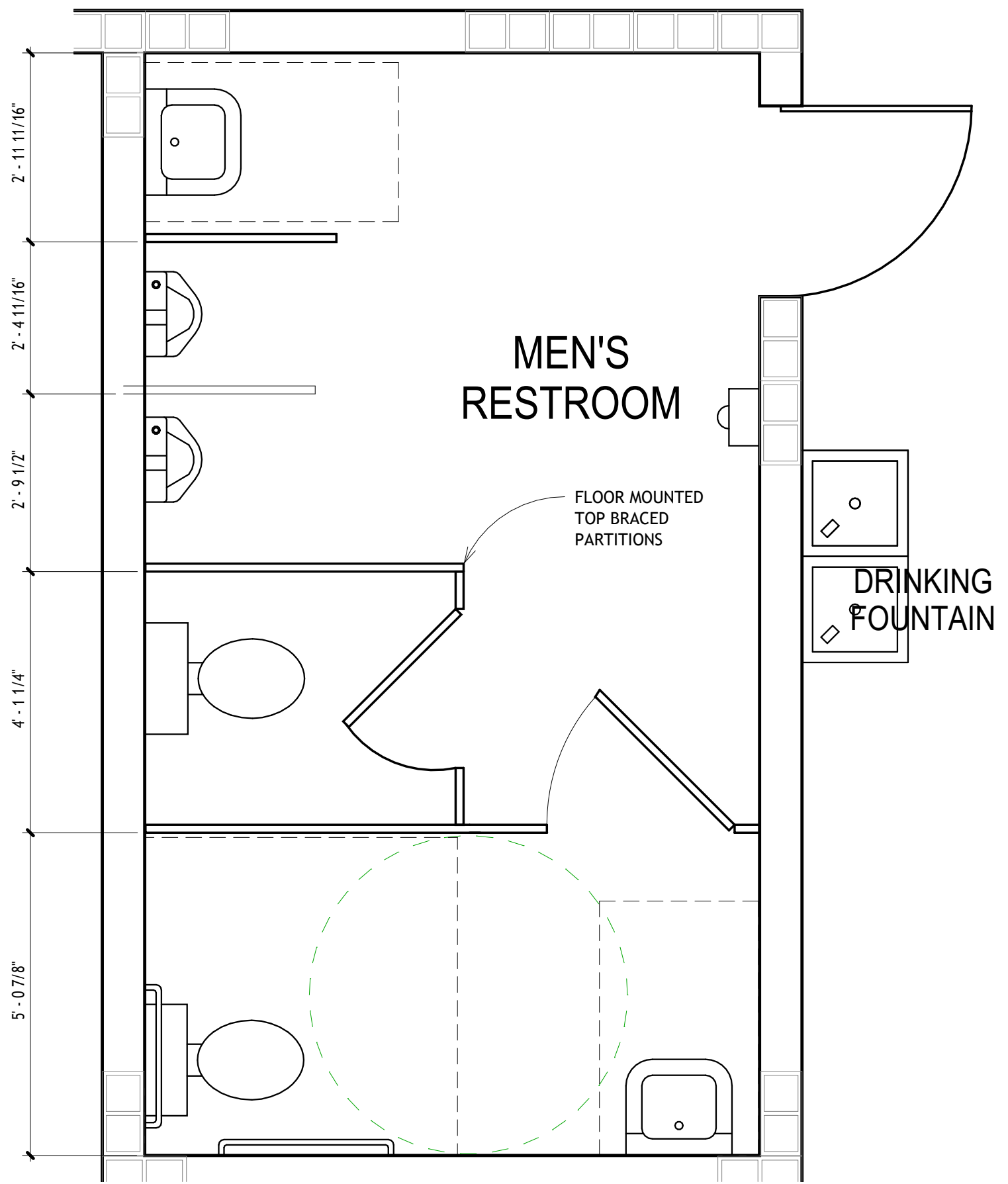
PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

SHEET TITLE:  
BUILDING A -  
ELEVATIONS  
SHEET SCALE: 1/4" = 1'-0"

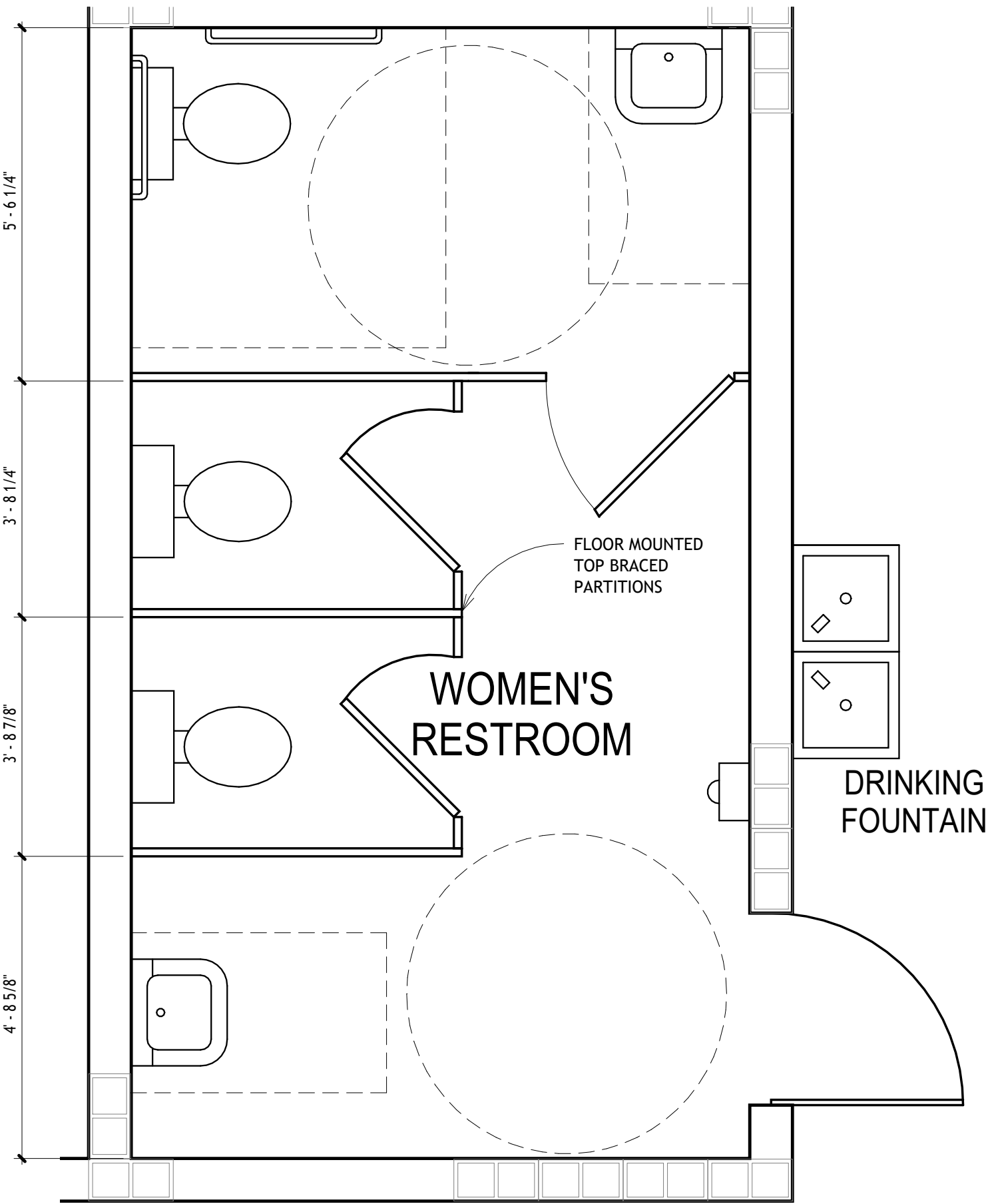
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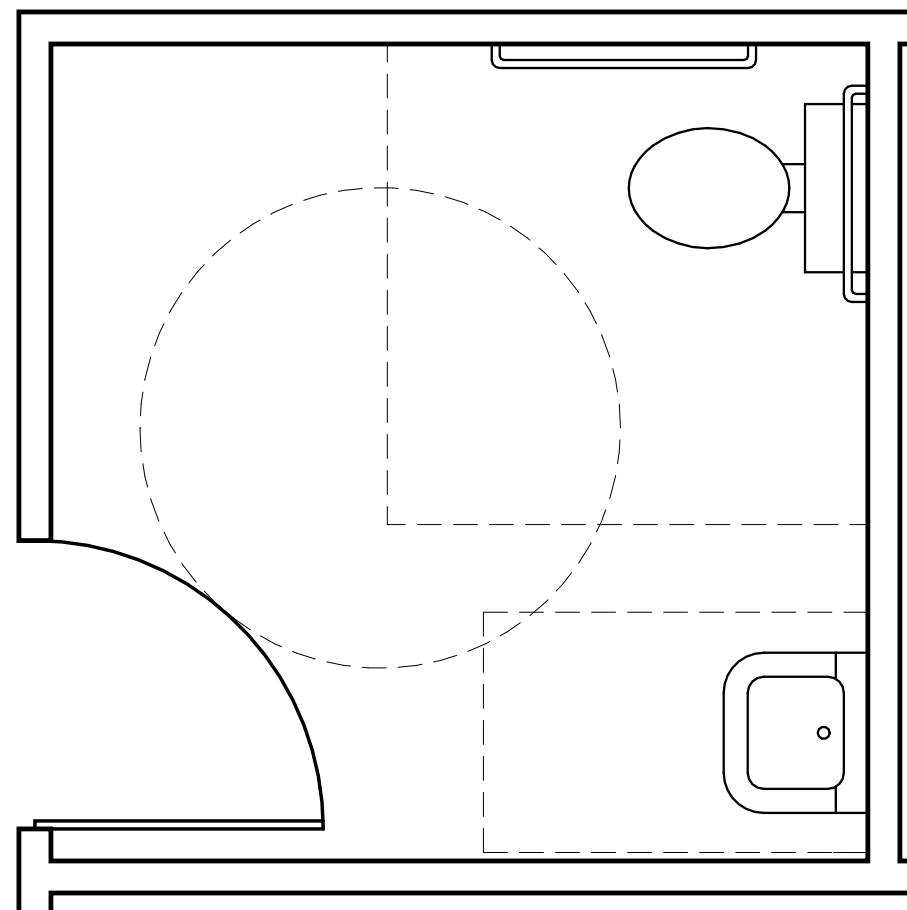




① BUILDING A - MEN'S RESTROOM  
1/2" = 1'-0"

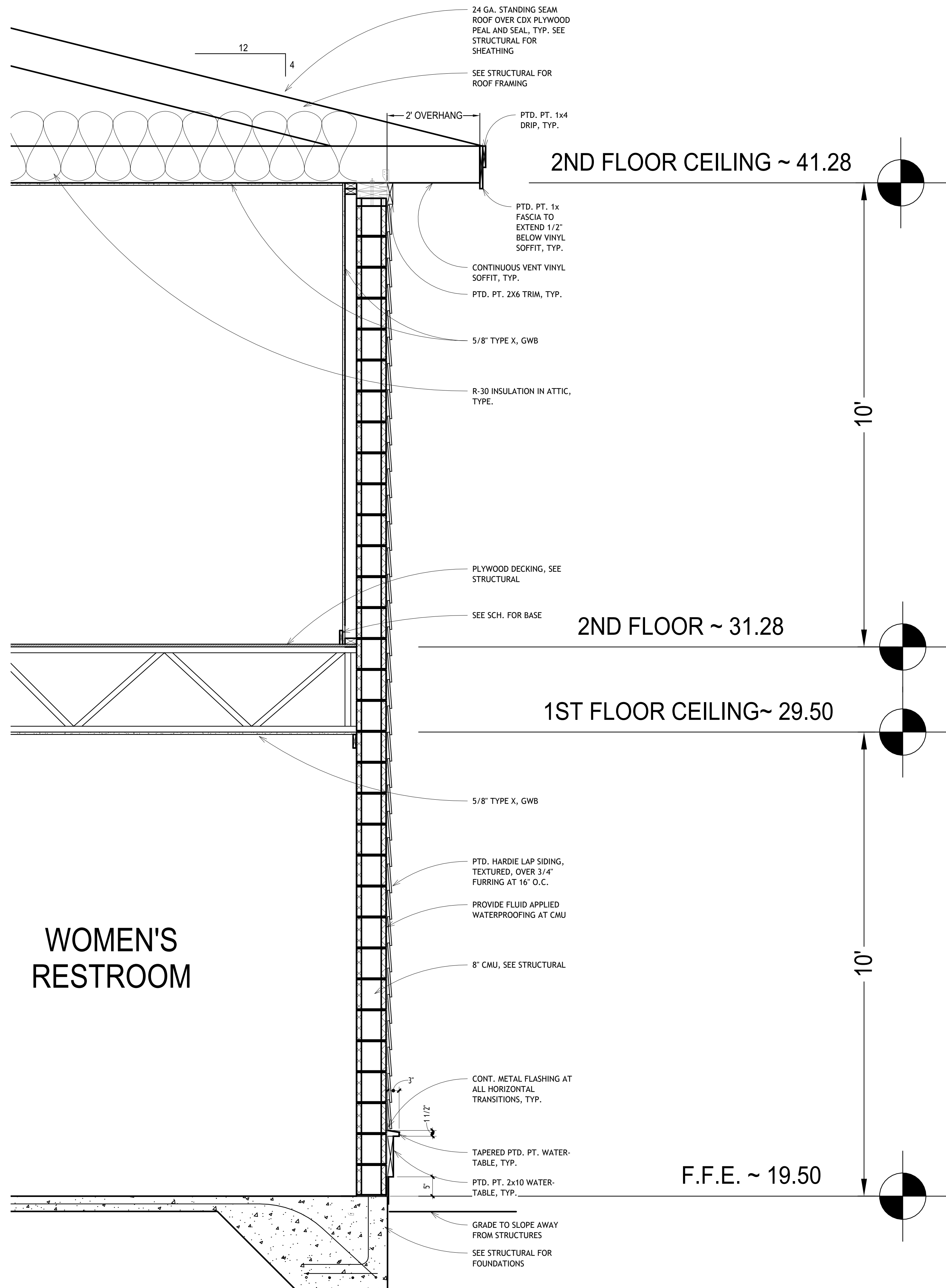


② BUILDING A - WOMEN'S RESTROOM  
1/2" = 1'-0"



③ BUILDING A - UNISEX  
1/2" = 1'-0"





1 BUILDING A - WALL SECTION  
3/4" = 1'-0"

CD  
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a complete engineering & construction management company

ECM

4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: [clamad@gentnet](mailto:clamad@gentnet)  
John H. Elamadi, PE

TELEPHONE: (850) 837-7454 (ENGR.)  
FAX: (850) 654-2000  
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10/03/2025

PROJECT:

HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

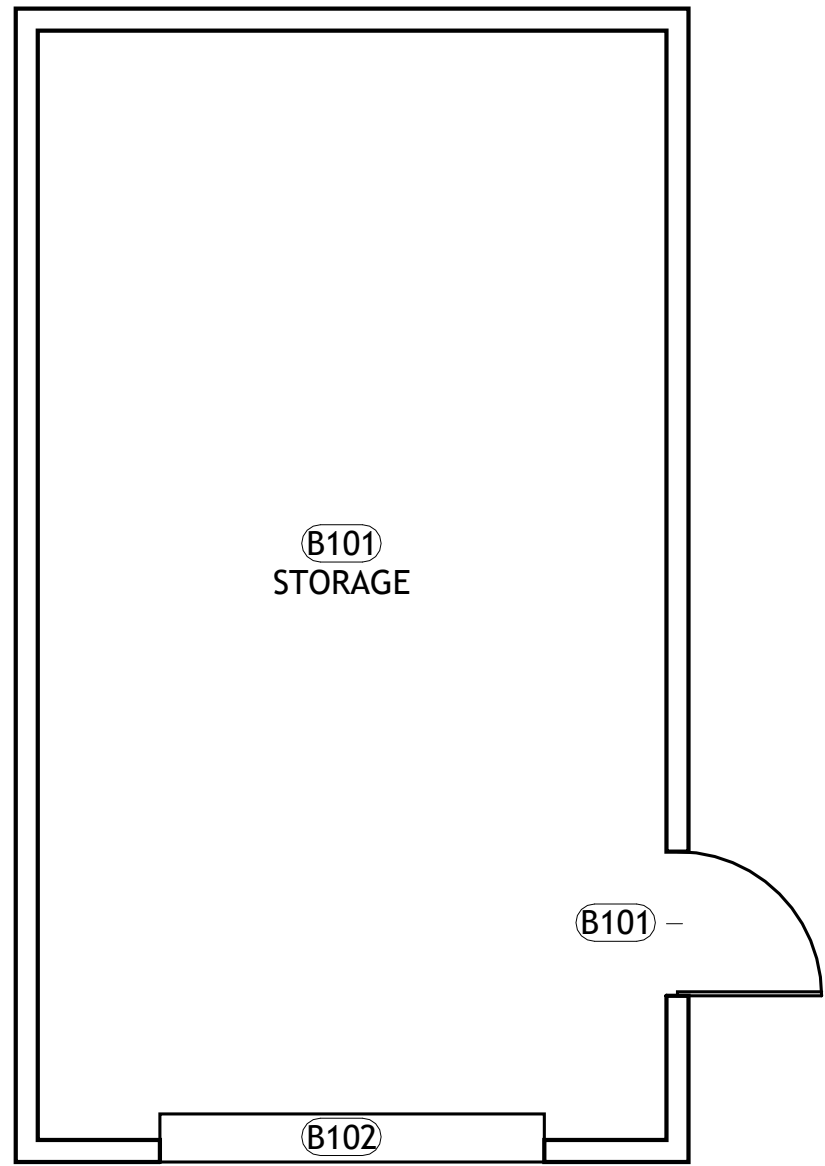
SHEET TITLE:  
BUILDING A - WALL  
SECTIONS

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

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: MC  
CHECKED BY: AJV

A1.13

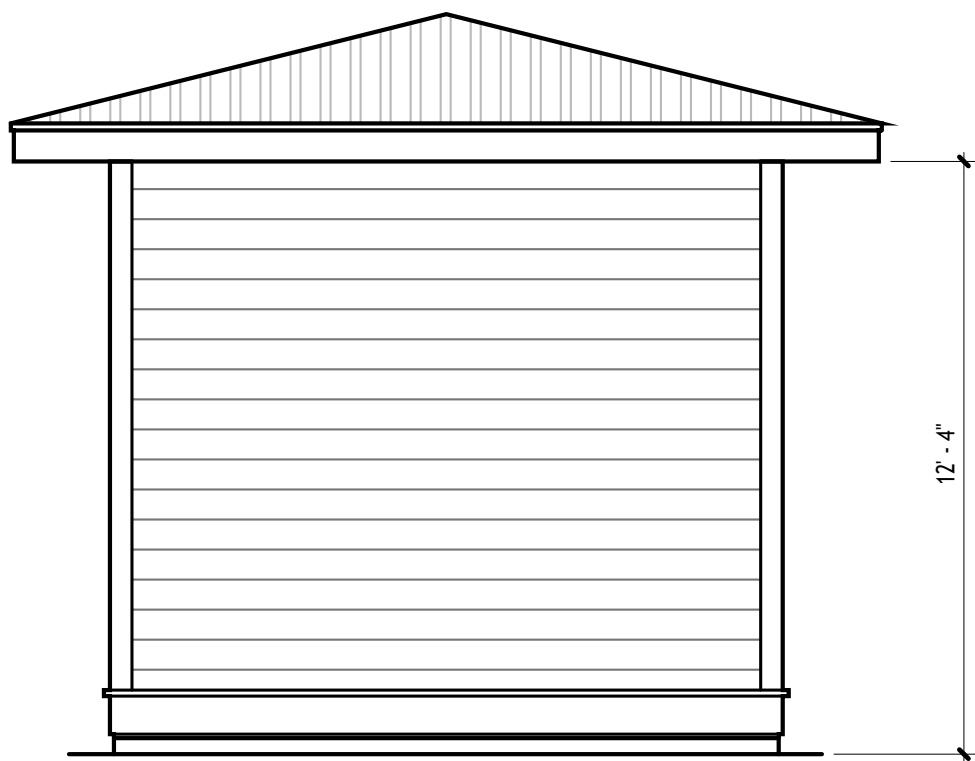




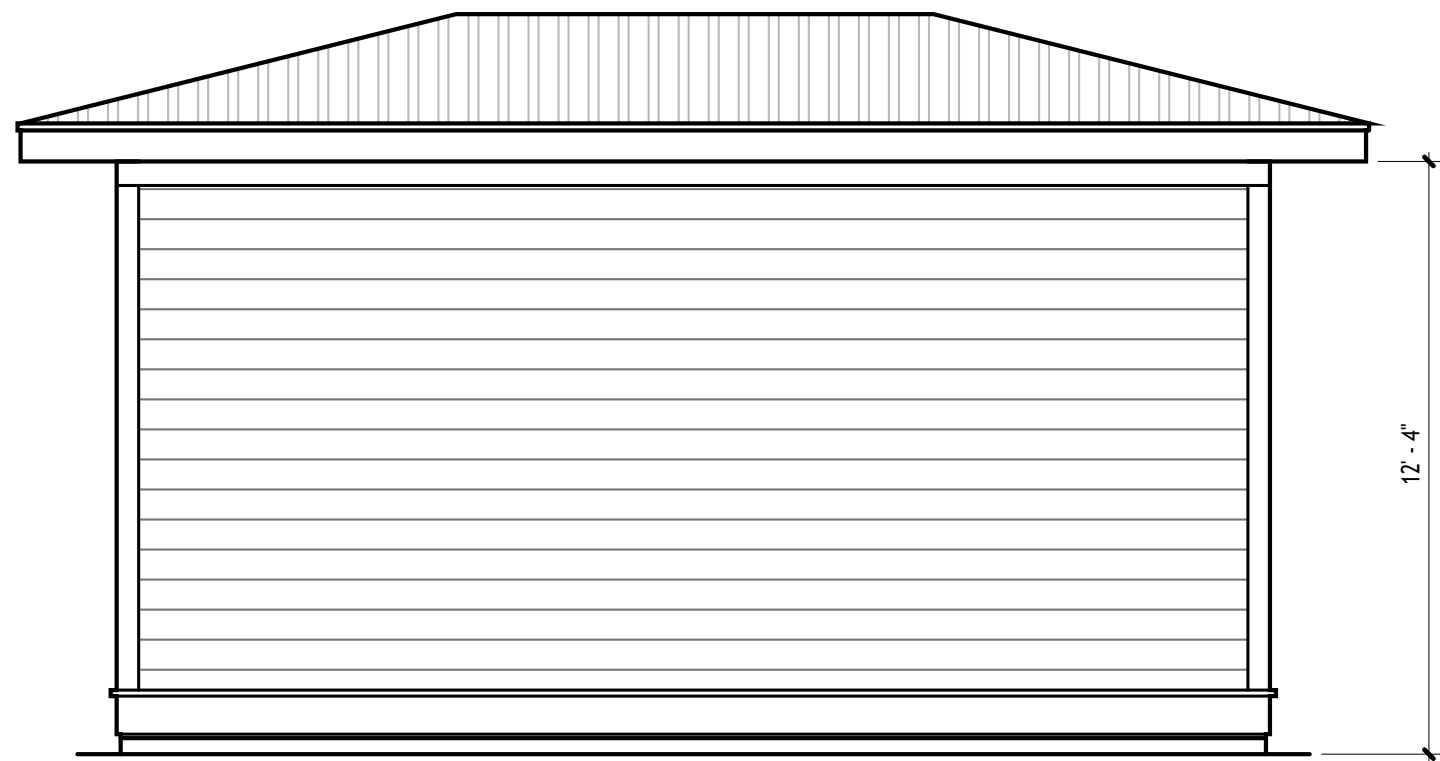
1 BUILDING B  
1/4" = 1'-0"

| BUILDING B - DOOR SCHEDULE |         |         |                                       |
|----------------------------|---------|---------|---------------------------------------|
| TYPE                       | WIDTH   | HEIGHT  | DESCRIPTION                           |
| B101                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE |
| B102                       | 8' - 0" | 8' - 0" | METAL ROLL UP DOOR                    |

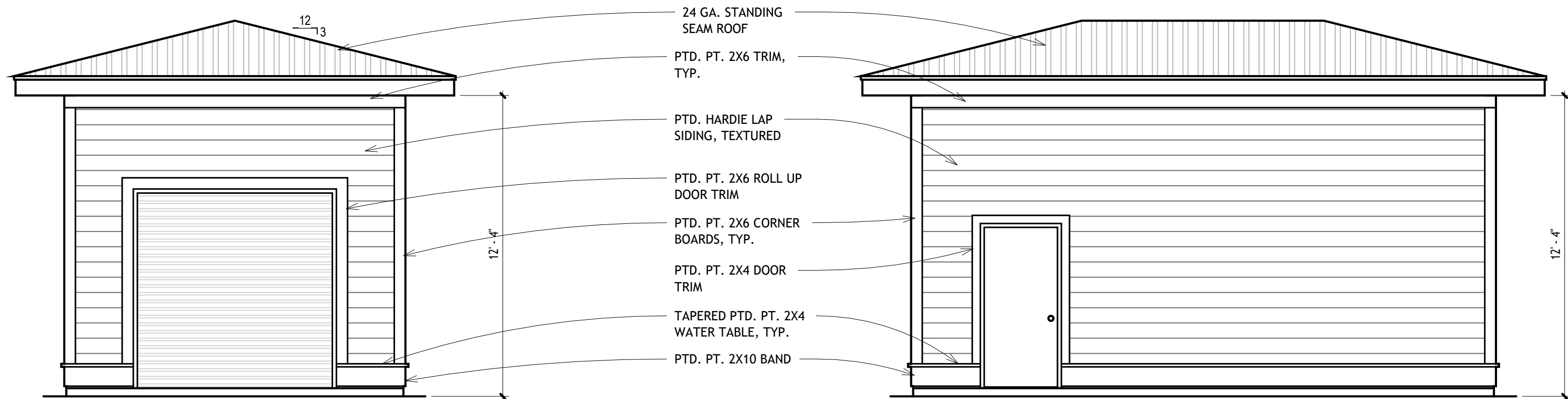
| BUILDING B - ROOM SCHEDULE |           |                 |      |             |                |
|----------------------------|-----------|-----------------|------|-------------|----------------|
| ROOM NO.                   | ROOM NAME | FLOOR FINISH    | BASE | WALL FINISH | CEILING FINISH |
| B101                       | STORAGE   | SEALED CONCRETE | NONE | 5/8 PLYWOOD | 5/8 PLYWOOD    |



2 BUILDING B - ELEVATION 4  
1/4" = 1'-0"

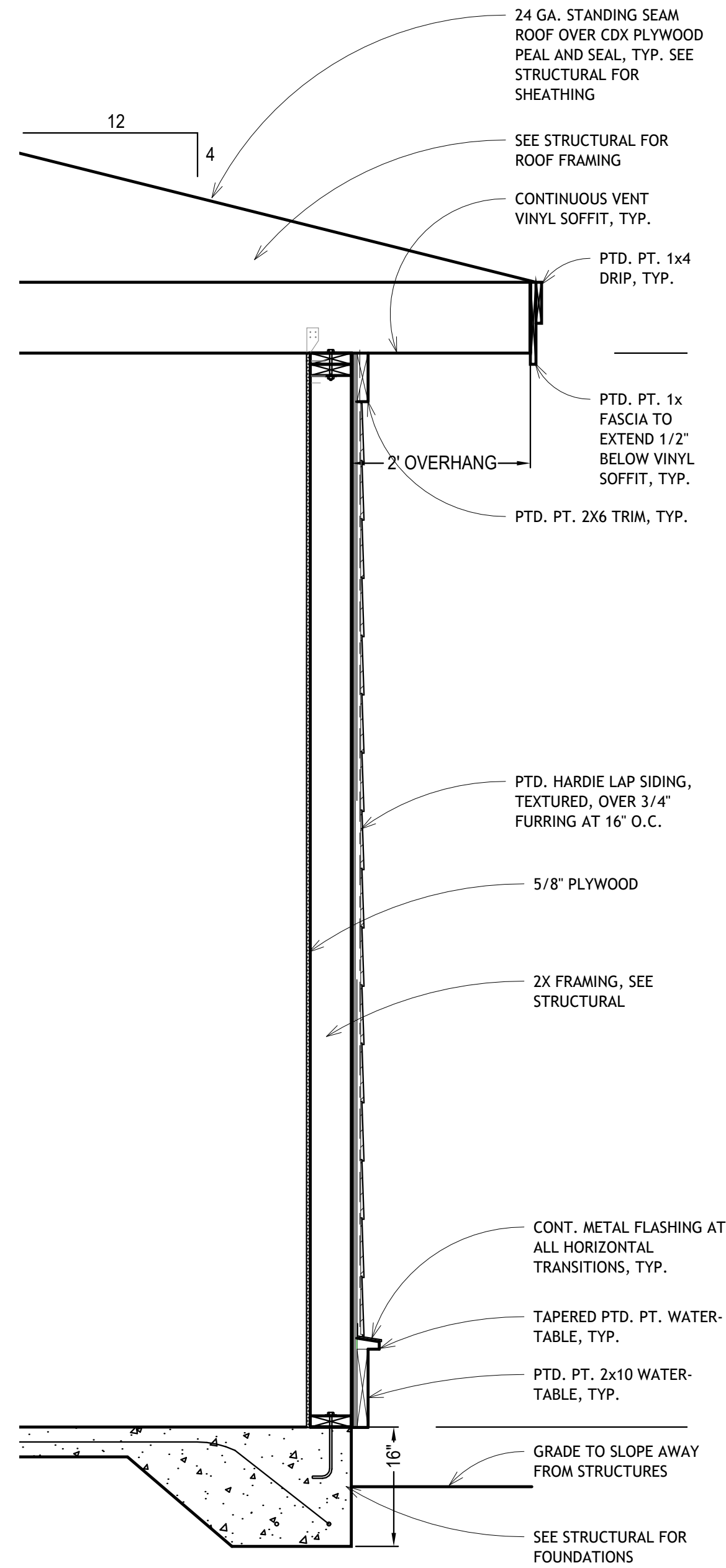


3 BUILDING B - ELEVATION 1  
1/4" = 1'-0"



4 BUILDING B - ELEVATION 2  
1/4" = 1'-0"

5 BUILDING B - ELEVATION 3  
1/4" = 1'-0"



6 BUILDING B - WALL SECTION  
3/4" = 1'-0"

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TELEPHONE: (850) 837-7454 (ENGR.)  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: edamad@gtinet.net  
FAX: (850) 654-2000  
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a complete engineering & construction  
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10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

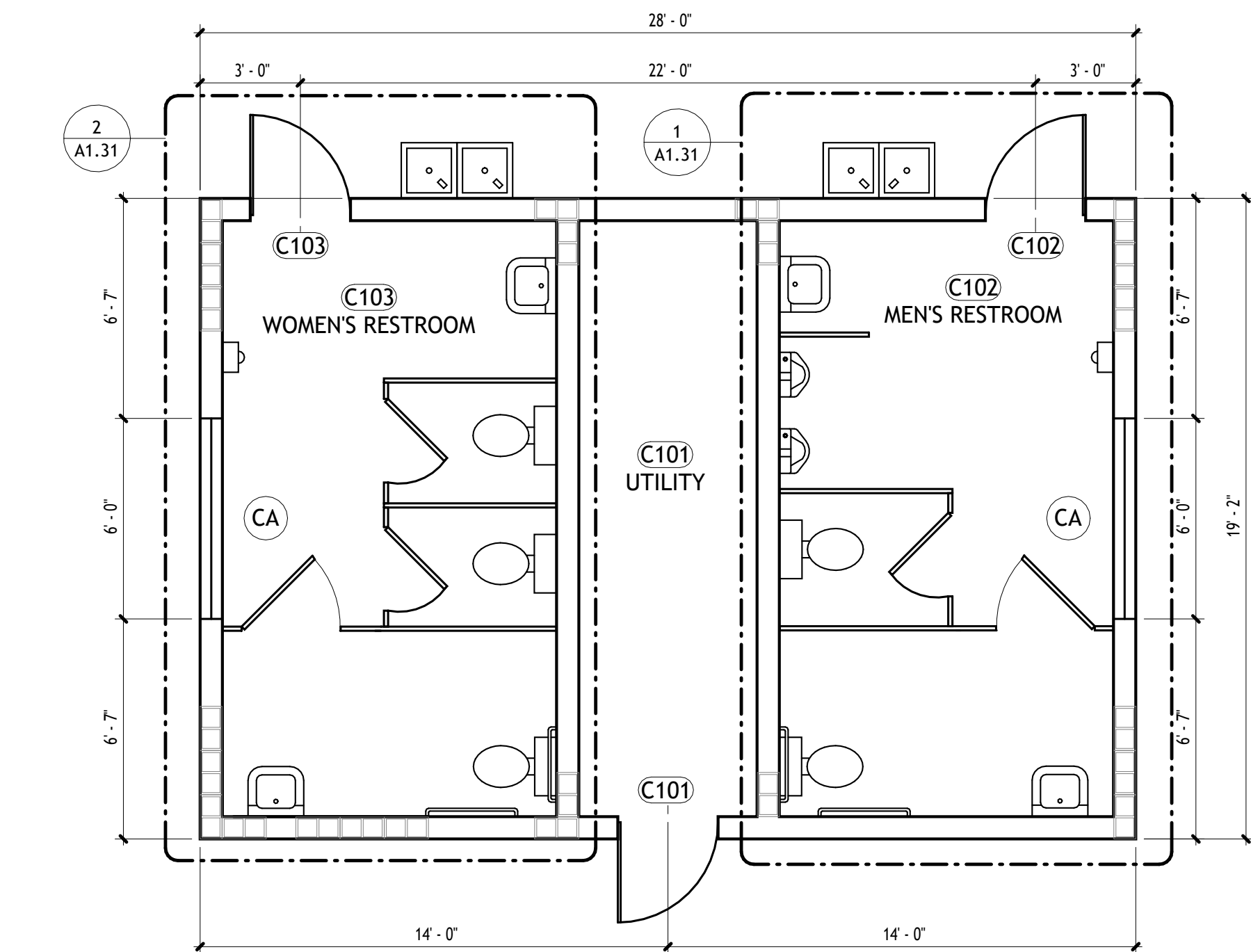
PROJECT:

SHEET TITLE:  
BUILDING B - PLAN,  
ELEVATIONS &  
WALL SECTION

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: MC  
CHECKED BY: AJV

A1.20



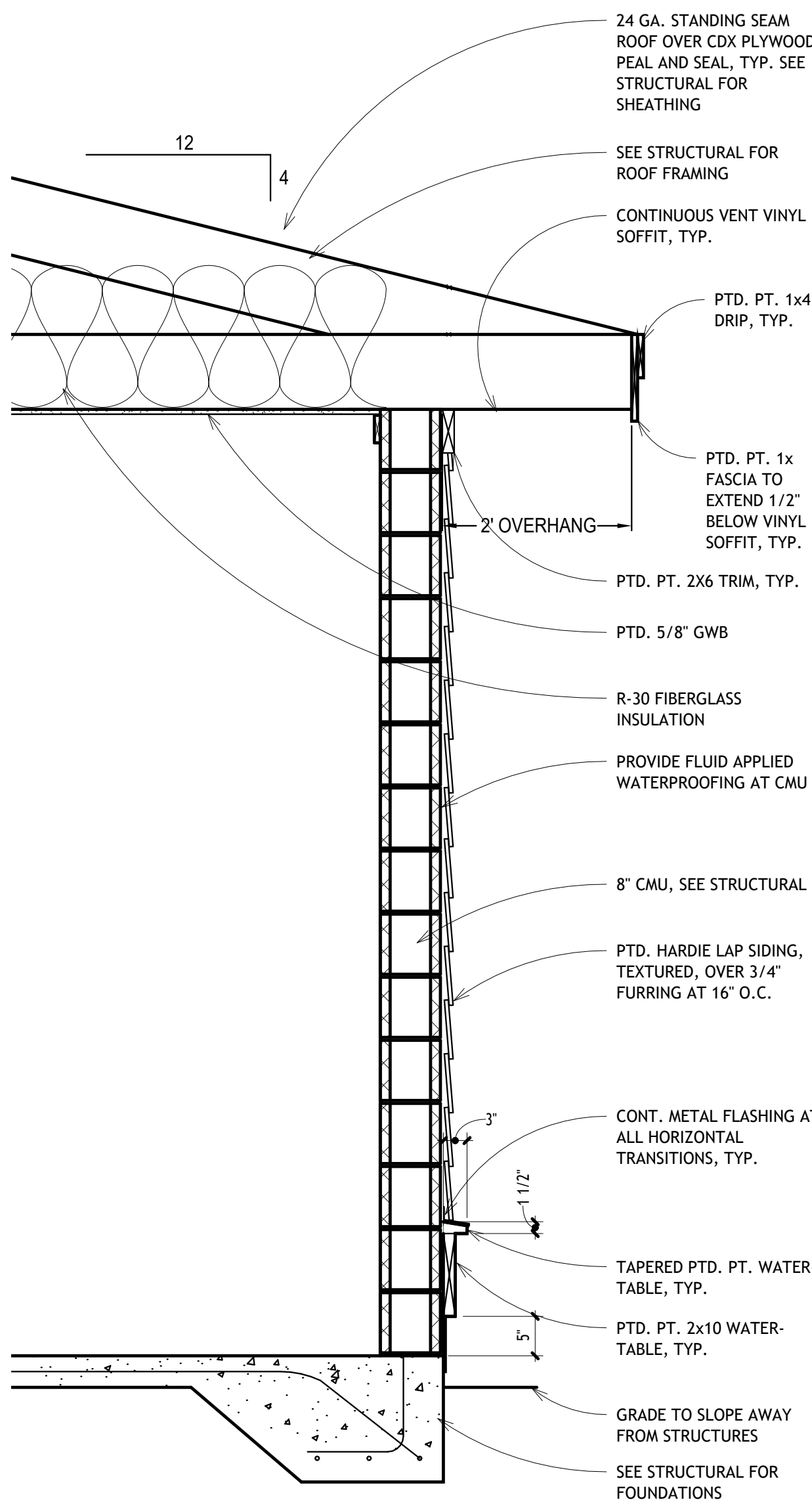


1 BUILDING C  
1/4" = 1'-0"

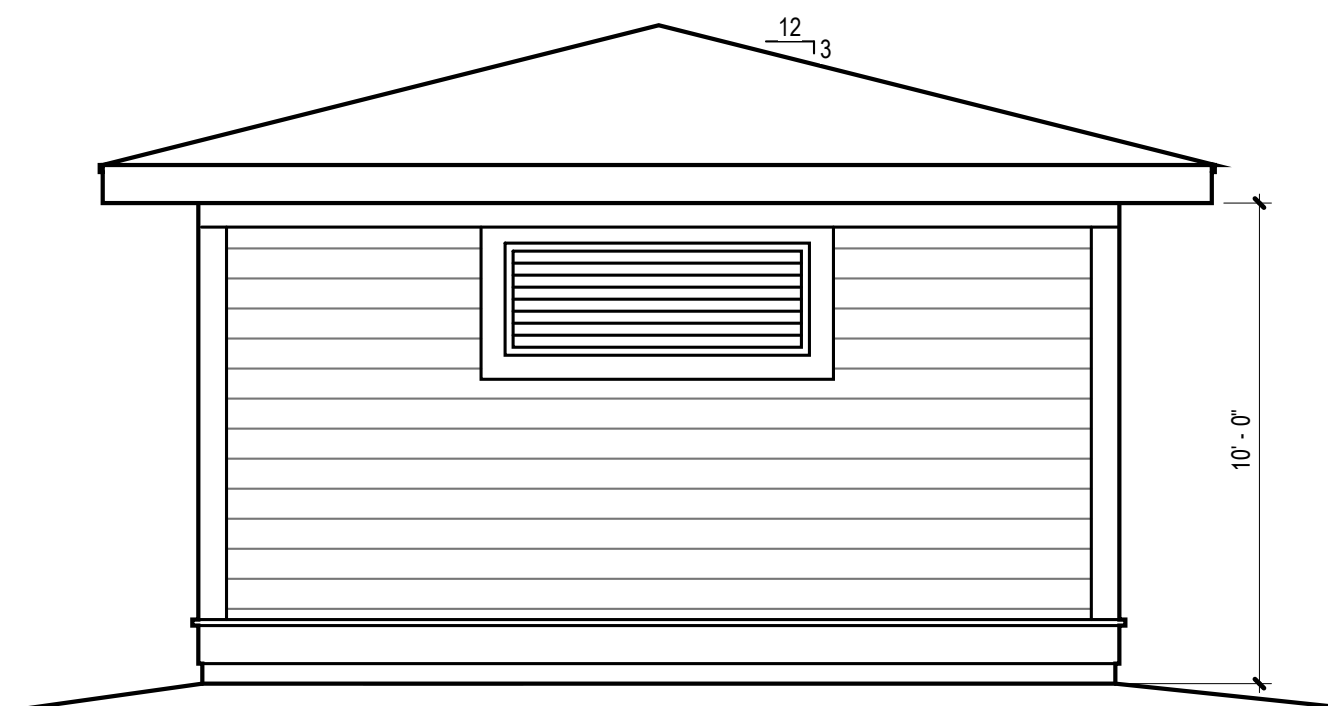
| BUILDING C - DOOR SCHEDULE |         |         |                                                            |
|----------------------------|---------|---------|------------------------------------------------------------|
| TYPE                       | WIDTH   | HEIGHT  | DESCRIPTION                                                |
| C103                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER |
| C102                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE and 24" x 18" LOUVER |
| C101                       | 3' - 0" | 7' - 0" | FIBERGLASS DOOR WITH CONTINUOUS HINGE                      |

| BUILDING C - WINDOW SCHEDULE |         |         |                  |
|------------------------------|---------|---------|------------------|
| TYPE                         | WIDTH   | HEIGHT  | DESCRIPTION      |
| CA                           | 6' - 0" | 2' - 0" | LOUVERED OPENING |
| CA                           | 6' - 0" | 2' - 0" | LOUVERED OPENING |

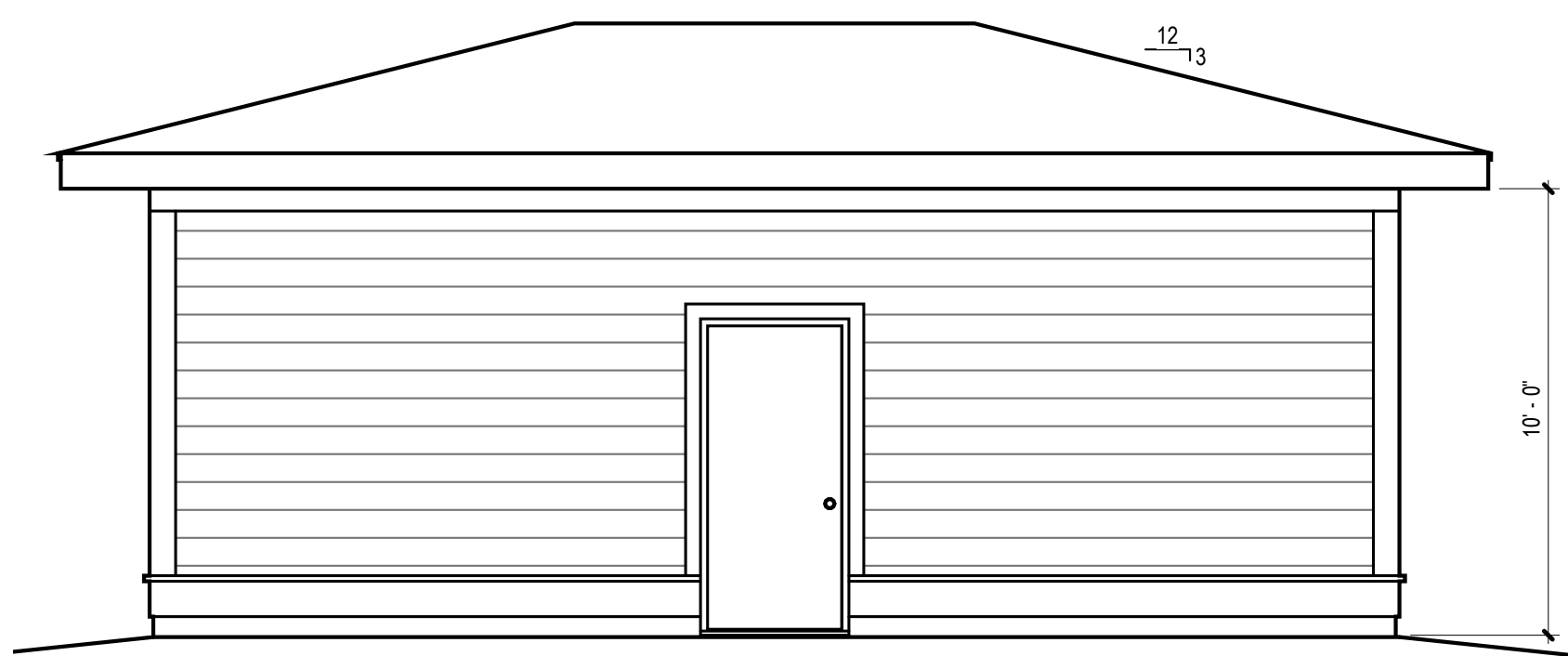
| BUILDING C - ROOM SCHEDULE |                  |                        |               |             |                      |
|----------------------------|------------------|------------------------|---------------|-------------|----------------------|
| ROOM NO.                   | ROOM NAME        | FLOOR FINISH           | BASE          | WALL FINISH | CEILING FINISH       |
| C101                       | UTILITY          | RESINOUS FLOOR COATING | RESINOUS COVE | EPOXY PAINT | PTD. 5/8 GREEN BOARD |
| C102                       | MEN'S RESTROOM   | RESINOUS FLOOR COATING | RESINOUS COVE | EPOXY PAINT | PTD. 5/8 GREEN BOARD |
| C103                       | WOMEN'S RESTROOM | RESINOUS FLOOR COATING | RESINOUS COVE | EPOXY PAINT | PTD. 5/8 GREEN BOARD |



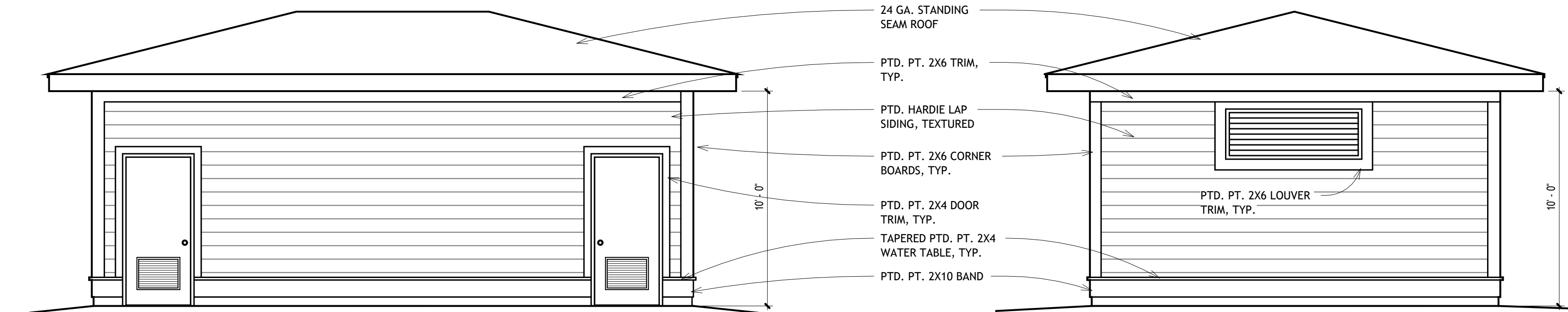
6 BUILDING C - WALL SECTION  
3/4" = 1'-0"



2 BUILDING C - ELEVATION 1  
1/4" = 1'-0"



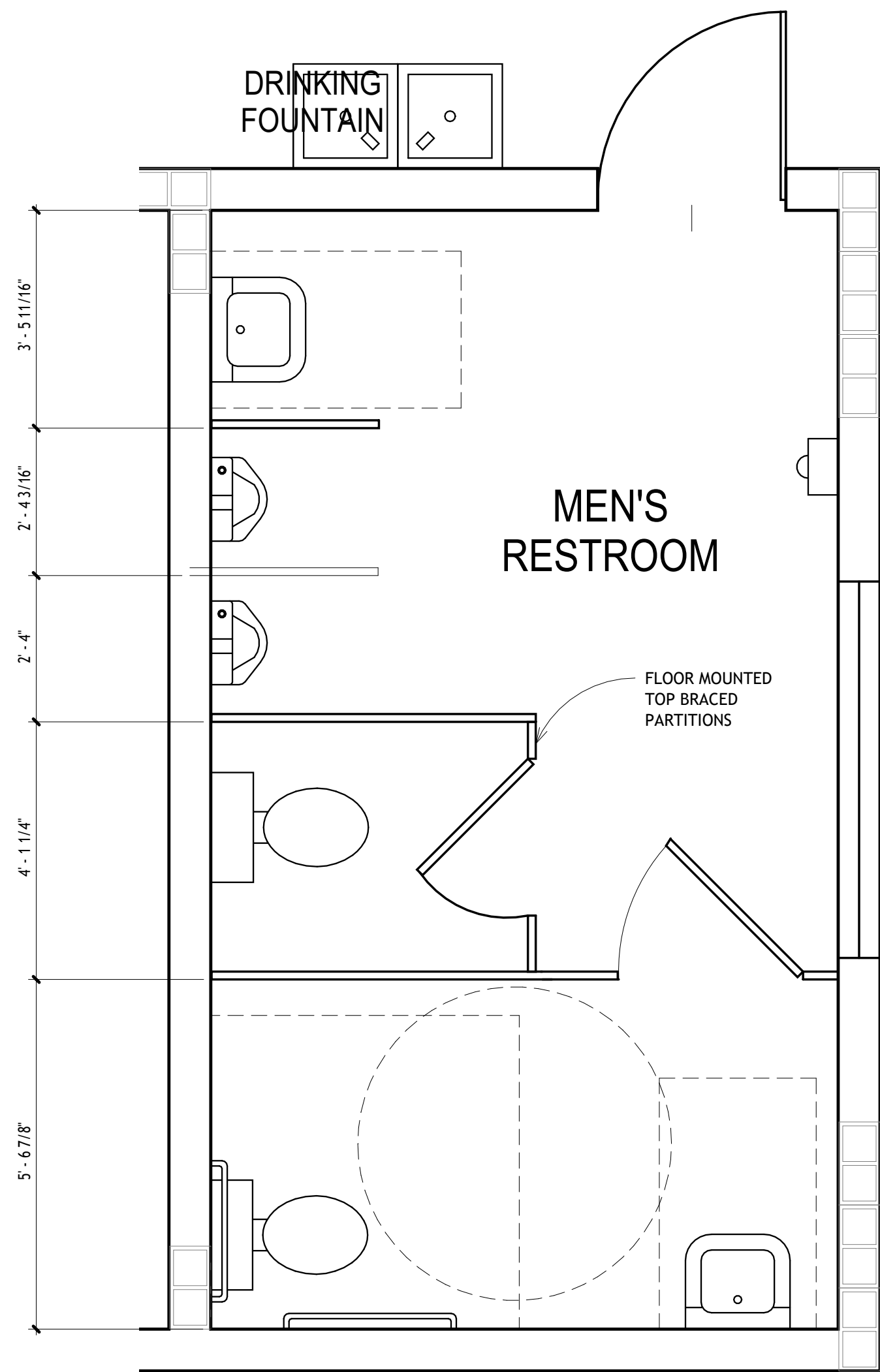
3 BUILDING C - ELEVATION 2  
1/4" = 1'-0"



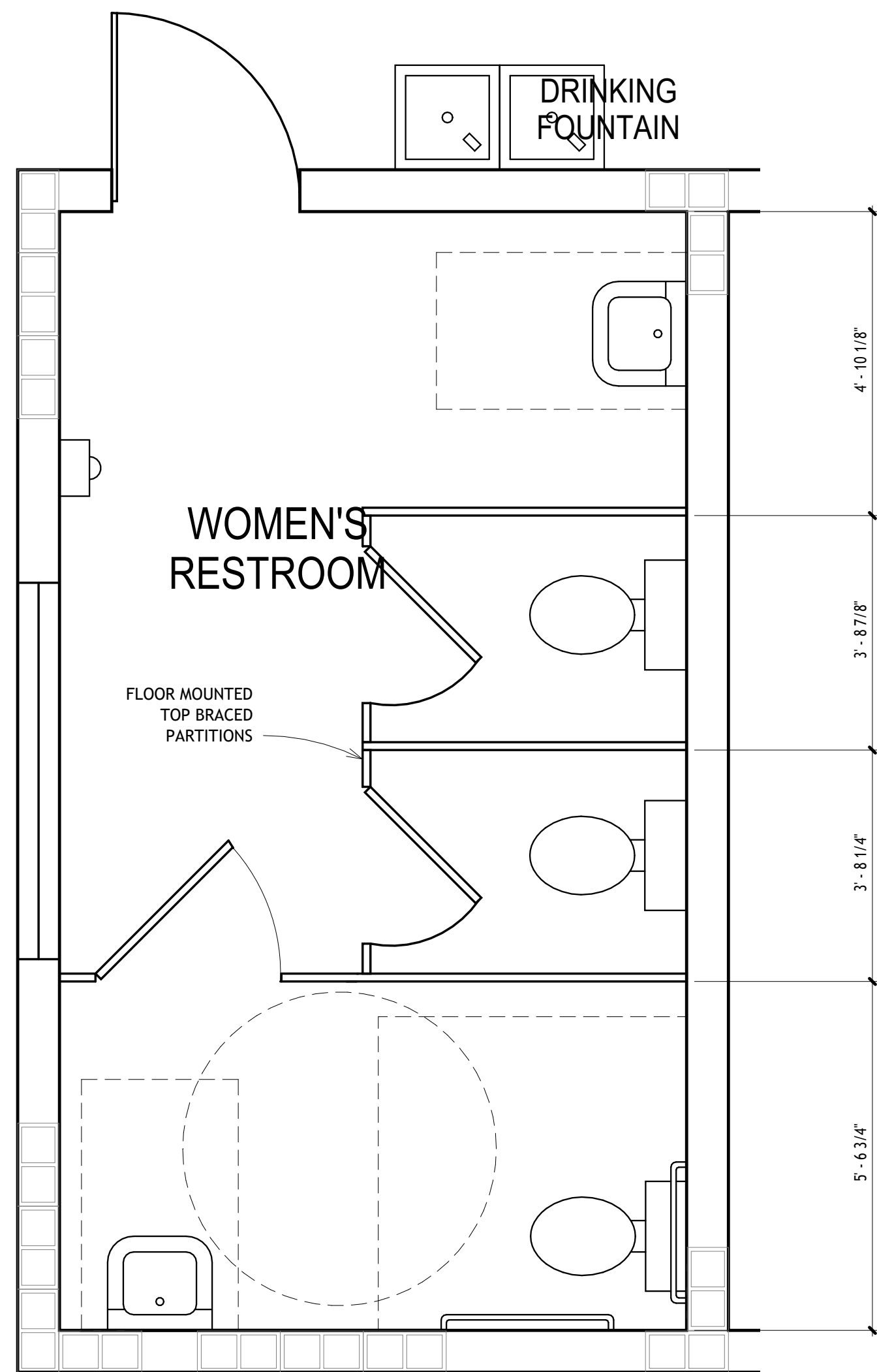
4 BUILDING C - ELEVATION 4  
1/4" = 1'-0"

5 BUILDING C - ELEVATION 3  
1/4" = 1'-0"





① BUILDING C - MEN'S RESTROOM  
1/2" = 1'-0"



② BUILDING C - WOMEN'S RESTROOM  
1/2" = 1'-0"



GENERAL ENGINEERING NOTES:

1. GENERAL

A. ALL CONSTRUCTION SHALL CONFORM TO:

1. THE FLORIDA BUILDING CODE 2023, 8th, EDITION  
2. THE FLORIDA BUILDING CODE 2023, 8th, EDITION RESIDENTIAL  
3. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE/SEI 7-22  
4. SIGNIFICANT CHANGES TO THE WIND LOAD PROVISIONS OF ASCE 7-22.

B. DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY.

C. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY.

D. NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

E. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.

F. COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.

G. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

H. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.

I. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

J. SUPERIMPOSED DESIGN LIVE LOADS:

|                    |        |
|--------------------|--------|
| LIVING AREAS.....  | 40 PSF |
| PORCH & DECKS..... | 60 PSF |
| ROOF.....          | 20 PSF |

2. FOUNDATION AND SLAB-ON-GROUND

A. THE DESIGN OF FOUNDATIONS AND SLAB ON GROUND IS BASED ON PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. PER INTERNATIONAL BUILDING CODE (IBC 2021), STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.

B. EARTH SUPPORTED SLAB SHALL BE 4" THICK, PLACED ON COMPACTED SUBGRADE, REINFORCED WITH 6"x6"-W1, 4XW1, 4 WELDED WIRE FABRIC REINFORCEMENT.

C. ALL CONCRETE WORK SHALL CONFORM TO ACI 301. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

D. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY STRENGTHS:

|                     |          |
|---------------------|----------|
| FOUNDATIONS.....    | 4000 PSI |
| SLAB-ON-GROUND..... | 4000 PSI |

E. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

F. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

G. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED).

H. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

I. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE; USE TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE.

J. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

K. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM BEFORE STARTING CONSTRUCTION.

L. NO CONCRETE SHALL BE PLACED IN STANDING WATER.

M. ALL FOOTING TRENCHES TO BE CLEARED OF ORGANIC MATERIALS.

N. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THESE NOTES OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING.

3. TIMBER, PLYWOOD, SHEATHING, TRUSSES, JOISTS:

A. ALL TIMBER FRAMING SHALL CONFORM TO THE FOLLOWING CODES: AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (TIMBER CONSTRUCTION MANUAL, LATEST EDITION), THE FLORIDA BUILDING CODE 2023, RESIDENTIAL.

B. STRUCTURAL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (M.C. - 19%), OR APPROVED EQUAL (BY THE STRUCTURAL ENGINEER) UNLESS OTHERWISE NOTED ON DRAWINGS, WITH THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

|                                           |               |
|-------------------------------------------|---------------|
| BENDING STRESS.....                       | 1,050 PSI     |
| SHEAR STRESS.....                         | 90PSI         |
| COMPRESSION STRESS PARALLEL TO GRAIN..... | 1,000 PSI     |
| MODULUS OF ELASTICITY.....                | 1,600,000 PSI |

C. STRUCTURAL GLUE LAMINATED TIMBER SHALL BE VISUALLY GRADED SOUTHERN PINE WITH THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

|                            |               |
|----------------------------|---------------|
| BENDING STRESS.....        | 2,400 PSI     |
| SHEAR STRESS.....          | 200 PSI       |
| MODULUS OF ELASTICITY..... | 1,800,000 PSI |

D. STRUCTURAL PARALLAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

|                            |               |
|----------------------------|---------------|
| BENDING STRESS.....        | 2,900 PSI     |
| SHEAR STRESS.....          | 290 PSI       |
| MODULUS OF ELASTICITY..... | 2,000,000 PSI |

E. STRUCTURAL LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES:

|                            |               |
|----------------------------|---------------|
| BENDING STRESS.....        | 3,100 PSI     |
| SHEAR STRESS.....          | 285 PSI       |
| MODULUS OF ELASTICITY..... | 2,100,000 PSI |

F. PLYWOOD SHEATHING:

I. EACH CONSTRUCTION AND INDUSTRIAL PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LARGEST EDITION OF U.S. PRODUCT STANDARD PS 1 OR APA PRP-180 PERFORMANCE STANDARDS. ALL PANELS WHICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE CLASSED EXTERIOR.

II. PANEL ROOF, WALL, CEILING, AND FLOOR SHEATHING SHALL BE (MIN.): 1/2" THICK WALLS & CEILING, 3/4" THICK (FLOOR), 5/8" THICK (ROOF), OF APA STRUCTURAL I RATED SHEATHING EXP. 2 (REFER TO DETAILS AND NOTES ON PLANS). SHEATHING PERMANENTLY EXPOSED TO WEATHER, CONCRETE AND GYPCRETE SHALL BE CLASSED EXTERIOR.

III. NAIL WALL PANELS W/ 10d COMMON NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

IV. ANCHOR ROOF PANELS W/ 10d RING-SHANK NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 6" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

V. ANCHOR FLOOR PANELS W/ 10d RING-SHANK NAILS AT 3" O.C. ALONG SUPPORTED PANEL EDGES AND AT 6" O.C. AT INTERMEDIATE SUPPORTS. U.N.O. ON PLANS.

G. ALL EXTERIOR AND BEARING STUD WALLS SHALL BE #2 2x6 SOUTHERN YELLOW PINE U.N.O. AND HAVE SOLID BLOCKING AT MID-HEIGHT OR AT EACH SHEATHING JOINT.

H. NO SUPERIMPOSED LOAD FROM FLOOR, CEILING OR ROOF FRAMING MEMBERS SHALL BE TRANSFERRED TO INTERIOR NON-LOAD BEARING WALLS. PROVIDE SLIDE CONNECTORS PER TYPICAL DETAILS OR APPROVED EQUAL.

I. PREFABRICATED WOOD STRUCTURAL MEMBERS, INCLUDING WOOD FLOOR AND ROOF TRUSSES SHALL BE DESIGNED SPECIFICALLY FOR THIS PROJECT PER WIND DESIGN INFORMATION TABLE. SHOP DRAWINGS SHALL BE SEALED BY A FLORIDA REGISTERED ENGINEER.

J. ROOF TRUSS MANUFACTURER TO REFER TO ARCHITECTURAL PLANS FOR RAFTER, CEILING AND BOTTOM CHORD CONFIGURATION, AND SHALL COORDINATE WITH THE MECHANICAL AND ELECTRICAL PLANS FOR VERTICAL/ HORIZONTAL CHASES, PIPES AND DUCTING REQUIREMENTS.

K. TRUSS AND PRE-ENGINEERED BEAM MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER AND VERIFY ALL BEARING DIMENSIONS WITH THE BUILDING CONTRACTOR BEFORE FABRICATION OF TRUSSES.

L. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION AND/OR TRUSS FABRICATION COMMENCES.

M. WOOD TO WOOD FRAMED CONNECTIONS ARE TO BE MADE WITH BOLTS AND/OR JOIST HANGERS AS SHOWN. TOE-NAILING IS NOT PERMITTED.

N. ALL TRUSSES AND RAFTERS SHALL BE STRAPPED OR HURRICANE CLIPPED AT ALL SUPPORTING MEMBERS AT ALL BEARING POINTS.

O. ALL EXTERIOR FRAMING MEMBERS THAT ARE IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE ACQ PRESSURE TREATED.

P. ALL METAL HARDWARE THAT IS IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE STAINLESS STEEL, GRADE 304 OR 316.

Q. PRESSURE TREATED LUMBER & CONNECTORS:

1. ALL SALT WATER/AIR EXPOSED AND GROUND CONTACT LUMBER, AS WELL AS LUMBER IN CONTACT WITH CONCRETE/GYPCRETE IN SALT WATER/AIR EXPOSED AREAS SHALL BE ACQ (ALKALINE COPPER QUATERNARY) CHEMICAL PRESSURE TREATED, AT THE RECOMMENDED RATE. THIS MATERIAL IS CORROSIVE TO METALS.
2. ALL NAILS, BOLTS, SCREWS, WOOD CONNECTORS, AND SIMPSON/USP MANUFACTURED METAL HARDWARE EXPOSED TO ACQ (ALKALINE COPPER QUATERNARY) PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL GRADE 304 OR 316.
3. LUMBER IN CONTACT WITH CONCRETE/GYPCRETE, AND NOT SALT WATER/AIR EXPOSED, AND NOT GROUND CONTACT CAN BE SODIUM BORATE CHEMICAL PRESSURE TREATED, (AT THE RECOMMENDED RATE), AT THE CONTRACTOR'S OPTION. PRODUCTS TREATED WITH SODIUM BASED RETARDANTS AND PRESERVATIVES SHALL BE STAINLESS STEEL GRADE 304 OR 316.

R. ALL 2X WOOD STUDS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES WITH MINIMUM (4) FOUR 10d NAILS. TOE NAILING IS NOT PERMITTED.

S. BASE PLATES OF ALL CONCRETE WALLS TO BE ATTACHED TO CONCRETE SLAB W/ 1/2" Ø ANCHORS AT 23" O/C MAX W/ 6" MIN. EMBED U.N.O. ON PLANS.

4. MASONRY SPECIFICATIONS:

A. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO ASTM C90, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA AND 1000 PSI ON THE GROSS AREA. (F<sub>WM</sub> = 1500 PSI)

B. ALL MORTAR FOR MASONRY SHALL CONFORM TO ASTM C270, TYPE S. ALL GROUT FOR USE IN MASONRY SHALL CONFORM TO ASTM C476, MINIMUM 3000 PSI AT 28 DAYS.

C. REINFORCING BARS: ASTM A615 GRADE 60.

D. ALL CONTINUOUS HORIZONTAL BARS SHALL HAVE AT LEAST MINIMUM REQUIRED TENSION SPLICE WITH CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS PER IBC 2021.

E. ALL VERTICAL REINFORCEMENT IN MASONRY WALLS SHALL HAVE AT LEAST MINIMUM REQUIRED TENSION SPLICE PER IBC 2021.

F. PROVIDE MASONRY HORIZONTAL TRUSS TYPE JOINT REINFORCEMENT AT 16" O.C., (REFER TO PLANS/DETAILS). VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.

G. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT SLUMP SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".

H. UNLESS INDICATED OTHERWISE PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 40 FEET. JOINTS SHALL BE DISCONTINUOUS AT BOND BEAM.

I. FILL CELLS OF MASONRY WITH CONCRETE. REINFORCE ONE CELL AT 32" ON CENTER, TWO CELLS AT EACH END OF OPENINGS, THREE CELLS AT CORNERS AND BEAM BEARING LOCATIONS, AND FOUR CELLS AT T-INTERSECTIONS WITH 1 - #5 VERTICAL BAR AT EACH GROUTED CELL.

J. ANCHOR BOLTS INTO MASONRY WALL SHALL BE STAINLESS STEEL AND MINIMUM 1/2" IN DIAMETER WITH MINIMUM 4" EMBEDMENT LENGTH IN CONCRETE U.N.O. ON PLANS.

5. STRUCTURAL STEEL

A. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE 'LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS' AND THE AISC 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES'.

B. STRUCTURAL STEEL SHALL BE OF THE FOLLOWING GRADE UNLESS NOTED OTHERWISE ON DRAWINGS:

1. W-SHAPES SHALL CONFORM TO ASTM A9922, GRADE 50. (ASTM A572, GRADE 50 MAY BE SUBSTITUTED FOR ASTM A992.)

2. SQUARE/RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

3. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A501 OR ASTM A553, GRADE B.

4. OTHER STEEL SHAPES (CHANNELS, ANGLES, AND PLATES) MAY CONFORM TO ASTM A36.

C. BOLTS, RODS, ANCHORS AND HEADED STUDS:

1. ALL CONNECTIONS SHALL BE SNUG TIGHTENED USING THE TURN OF NUT METHOD CRITICAL WITH A MINIMUM 3/4" DIAMETER A325 HIGH-STRENGTH BOLTS.

2. ANCHOR RODS SHALL CONFORM TO ASTM A36 OR A307, UNLESS NOTED OTHERWISE.

3. HEADED STUDS SHALL BE 3/4" DIAMETER, UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO AWS D1.1. LENGTH OF STUD SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING:

D. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

1. STANDARD SHEAR CONNECTIONS SHALL BE DETAILED AS DOUBLE-ANGLE, SINGLE PLATE, SINGLE-ANGLE, OR TEE CONNECTIONS IN ACCORDANCE WITH CONNECTION TABLES IN THE 'MANUAL OF STEEL CONSTRUCTION: LRFD', SECOND EDITION, VOLUME II, PART 9.

2. FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. 'NON-PREQUALIFIED JOINTS' SHALL BE QUALIFIED PRIOR TO FABRICATION.

3. FACTORED DESIGN REACTIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS OR, IF NOT SHOWN, THE FACTORED DESIGN REACTION SHALL BE HALF OF THE MAXIMUM FACTORED UNIFORM LOAD TABULATED IN THE 'MANUAL OF STEEL CONSTRUCTION: LRFD', SECOND EDITION, VOLUME I, PART 4.

4. STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS OF SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.

E. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD PER THE SPECIFICATIONS.

F. THE STRUCTURAL STEEL MEMBERS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE TORSION DUE TO ECCENTRIC LOADING OF THE PRECAST PANELS. CURTAIN WALL SYSTEMS, LIGHT GAUGE METAL FRAMING, ETC. SUPPLEMENTAL SECONDARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE SUPPLIER TO ELIMINATE THE TORSION.

G. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.

6. POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQ'D BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

B. CONCRETE ANCHORS

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

- SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
- SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)

2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE

- SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
- SIMPSON STRONG-TIE "AT-XP" (IAMPO-ES EC-0263)
- HILTI HIT HY150 INJECTION ADHESIVE
- EPICON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
- POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

3. POWDER AND GAS-ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED POWDER ACTUATED FASTENERS INCLUDE:

- SIMPSON STRONG-TIE "POWER-DRIVEN FASTENERS" (ICC-ES ESR-2138)
- SIMPSON STRONG-TIE "GAS-ACTUATED FASTENERS" (ICC-ES ESR-2811)

C. MASONRY ANCHORS

- ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC101 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

- SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES FL15730)
- SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAMPO-ES FL16230)
- SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES FL15730)

2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

- SIMPSON STRONG-TIE "AT-XP" (IAMPO-ES FL16230)
- SIMPSON STRONG-TIE "SET-XP" (IAMPO-ES ER-16230)
- HILTI HIT HY150 INJECTION ADHESIVE
- EPICON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
- POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

3. ANCHORAGE TO HOLLOW CONCRETE MASONRY:

3.1. ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC108. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:

- SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)
- SIMPSON STRONG-TIE "AT" (ICC-ES ESR-1958)
- HILTI HIT HY150 INJECTION ADHESIVE
- EPICON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
- POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING

7. CAST IN PLACE CONCRETE:

A. CONCRETE WORK SHALL CONFORM TO ACI 318-99 AND CRSI STANDARDS.

B. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

- B.1. NORMAL WEIGHT STRUCTURAL CONCRETE: 4,000 PSI

C. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.

D. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCAUSED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

E. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

F. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO DETERMINED BY THE STRUCTURAL ENGINEER.

8. STRUCTURAL INSPECTIONS:

A. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER TO PERFORM STRUCTURAL INSPECTIONS PRIOR TO PLACING CONCRETE OR COVERING STRUCTURAL MEMBERS OR CONNECTIONS. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AT LEAST 48 HOURS IN ADVANCE OF A NECESSARY INSPECTION.

B. TYPICAL SCHEDULING OF INSPECTION:

- PILINGS (WHEN APPLICABLE)
- FOUNDATION
  - FOOTINGS (LAYOUT AND REBARS)
  - STEM WALL BLOCK AND/OR BLOCK PIER (LAYOUT AND REBARS)
- FIRST FLOOR
  - SLAB (REINFORCING STEEL AND GRADE BEAMS) (WHEN APPLICABLE)
  - FIRST FLOOR FRAMING (BEAMS, JOISTS, HANGERS, STRAPS, HOLDOWNS) (WHEN APPLICABLE)
- SHEATHING NAIL-OFF INSPECTION (EXTERIOR SHEATHING, SHEARWALL SHEATHING, ROOF DECKING) (WHEN APPLICABLE)
- FINAL FRAMING/STRAPPING (BEAMS,COLUMNS, TRUSSES, STRAPS, HOLDOWNS, SHEAR WALLS) FOLLOW-UP FRAMING/STRAPPING INSPECTIONS (IF CORRECTIONS WERE REQUIRED AFTER INITIAL FRAMING/STRAPPING INSPECTION)
- CAST IN PLACE CONCRETE ELEMENTS
  - REINFORCING FOR WALL AND COLUMNS PRIOR TO CLOSING FORMWORK
  - REINFORCING IN ALL C.I.P. BEAMS AND STRUCTURAL SLABS.

C. THE E.O.R. INSPECTIONS LISTED ABOVE ARE MANDATORY AND CAN NOT BE SUBSTITUTED BY COUNTY, OR ANY OTHER THIRD PARTY INSPECTION AGENCY.

9. REINFORCEMENT:

A. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIDE AND END LAPS OF 8".

C. REINFORCING STEEL SHALL ONLY BE WELDED OR TACK-WELDED IF IT CONFORMS TO ASTM A706, AND AWS D1.4. REINFORCING SHALL NOT BE WELDED NOR TACK-WELDED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

D. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT, WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

E. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

F. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CAST-IN-PLACE (NON POST-TENSIONED) CONCRETE REINFORCEMENT COVER:

|                                |          |
|--------------------------------|----------|
| PERMANENTLY EXPOSED TO EARTH:  |          |
| CAST AGAINST THE EARTH.....    | 3" CLEAR |
| CAST AGAINST THE FORMWORK..... | 2" CLEAR |

|                                     |              |
|-------------------------------------|--------------|
| EXPOSED TO EARTH OR WEATHER:        |              |
| FOR BARS LARGER THAN NO. 5 BAR..... | 2" CLEAR     |
| NO. 5 BARS OR SMALLER.....          | 1-1/2" CLEAR |

G. MASONRY REINFORCING SHALL BE PLACE IN THE CENTER OF CMU CELLS, UNLESS NOTED OTHERWISE.

H. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE.

TENSION DEVELOPMENT & LAP SPLICE LENGTHS FOR BARS IN WALLS, SLABS AND FOOTINGS. (1.5" min. concrete cover)

| BAR SIZE | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 |
|----------|-------|-------|-------|-------|-------|-------|
| LENGTH   | 20    | 26    | 32    | 38    | 63    | 78    |

STANDARD HOOK GEOMETRY FOR DEVELOPMENT OF DEFORMED BARS IN TENSION

|                    | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 |
|--------------------|-------|-------|-------|-------|-------|-------|
| D=6"d <sub>s</sub> | 2.25  | 3.00  | 3.75  | 4.50  | 5.25  | 6.00  |

| A or G | 6 | 8 | 10 | 12 | 14 | 18 |
|--------|---|---|----|----|----|----|
|--------|---|---|----|----|----|----|

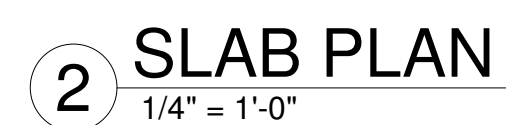
MINIMUM LAP SPLICE LENGTH (IN.) 1500 PSI NORMAL WEIGHT CMU

|         | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 |
|---------|-------|-------|-------|-------|-------|-------|
| 6" CMU  | 19    | 25    | 39    | 81    | NA    | NA    |
| 8" CMU  | 19    | 25    | 31    | 57    | 79    | 113   |
| 12" CMU | 19    | 25    | 31    | 53    | 61    | 75    |

DETAILING

|                  |   |        |
|------------------|---|--------|
| 12d <sub>s</sub> | D | A or G |
|------------------|---|--------|





- 

*ECM*

**ECM**  
Florida Certificate of Authorization - #6119  
154 BUSINESS CENTRE DRIVE  
MIRAMAR BEACH, FLORIDA 32550  
TELEPHONE: (850) 837-7454 (ENGR.)  
TELEPHONE: (850) 837-7456 (INSP.)  
E-MAIL: [johnmcd@gmail.com](mailto:johnmcd@gmail.com)  
**John H. Elamad, P.E.**  
Florida Registration: #65840

[illegible]

HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY FL.

## BUILDING A FOUNDATION & SLAB PLAN

B No.: 25-07-123.429  
DATE: 9/12/2025  
DRAWN BY: R.C.  
CHECKED BY: JHE

S2





**ECM**

*a complete engineering &  
construction management company*

Florida Certificate of Authorization - #8419

154 BUSINESS CENTRE DRIVE  
MIRAMAR BEACH, FLORIDA 32550

TELEPHONE: (850) 837-7464 (ENG.)  
TELEPHONE: (850) 837-7456 (INSP.)  
E-MAIL: [plamad@mgm.com](mailto:plamad@mgm.com)

| DISTRIBUTION | DATE |
|--------------|------|
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|              |      |

**HELEN MCCALL PARK  
10 ACRE EXPANSION**  
WALTON COUNTY, FL.

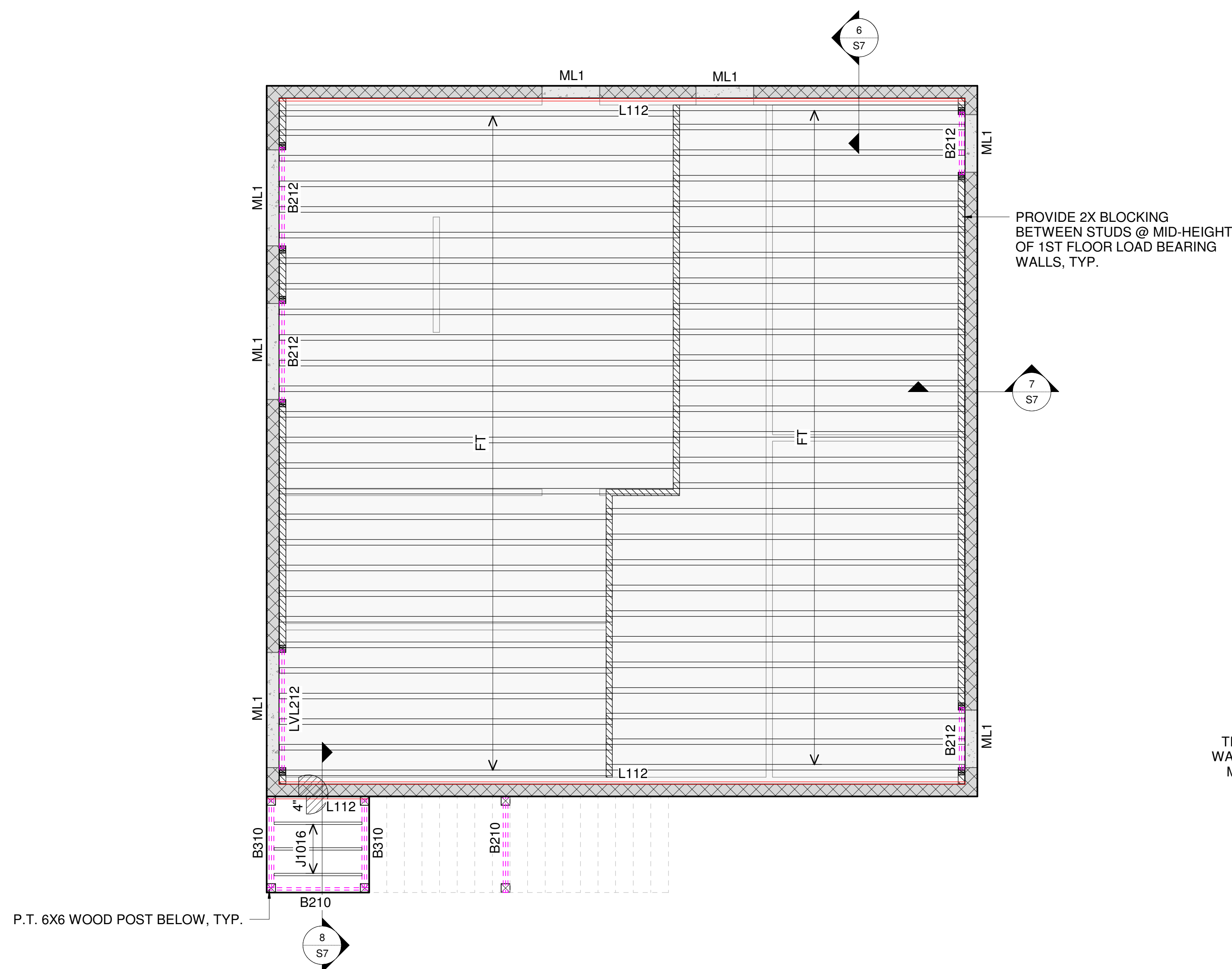
SHEET TITLE:

BUILDING A SECOND FLOOR &  
ROOF FRAMING PLAN

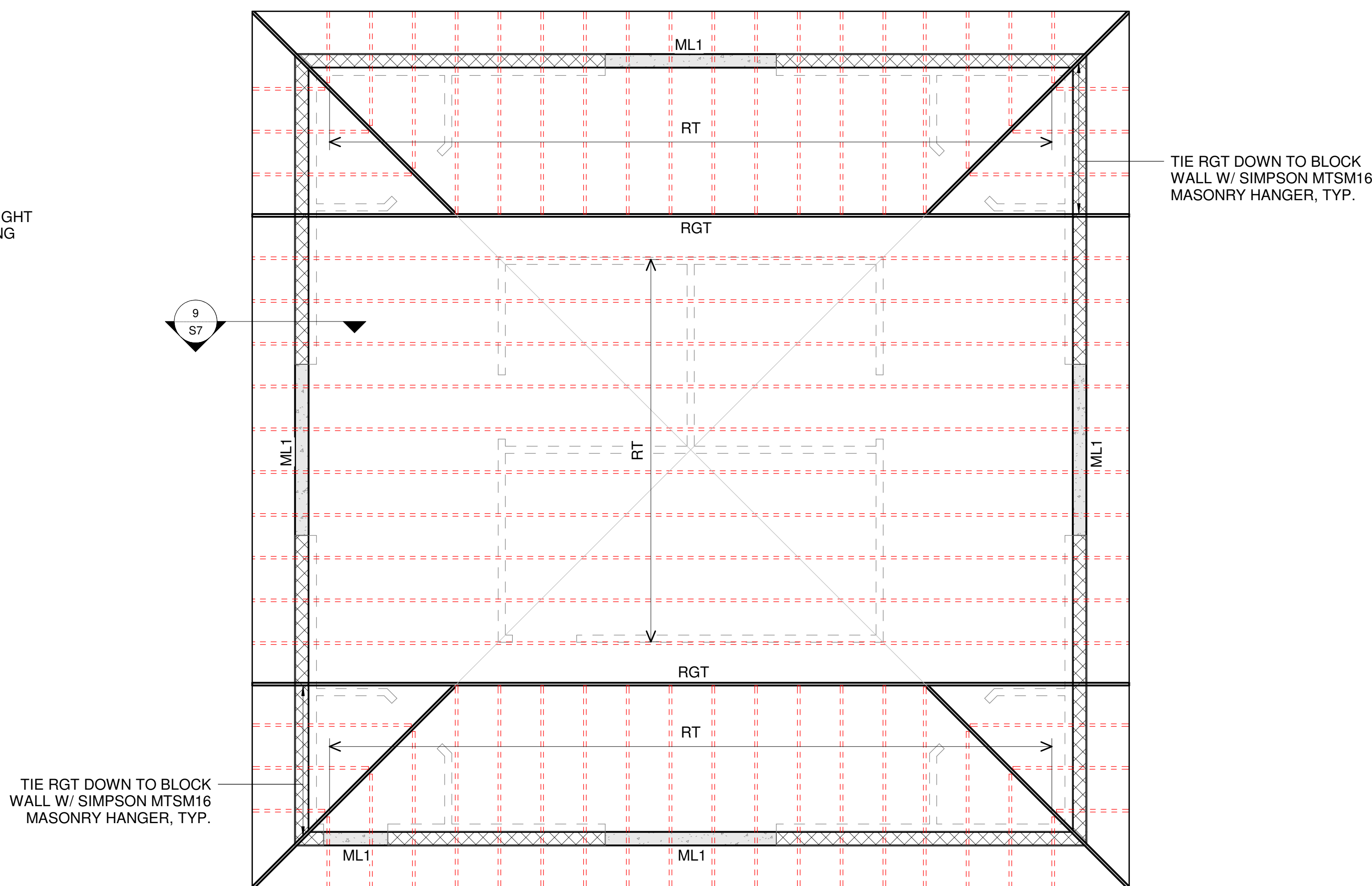
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JOB No.: 25-07-123.A  
DATE: 9/12/20  
DRAWN BY: R  
CHECKED BY: JH

S3

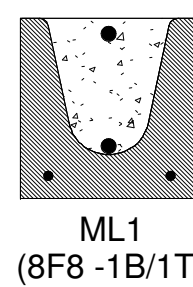


**1 SECOND FLOOR FRAMING PLAN**  
1/4" = 1'-0"



## 2 ROOF FRAMING PLAN

## CAST-CRETE LINTEL SCHEDULE



ML1  
(8F8 -1B/1T)

The diagram shows a cross-section of a composite lintel. The notation **8F8-1B/1T** is centered on the section. Callouts explain the parts of the notation:

- 8F8**: QUANTITY OF #5 FIELD ADDED REBAR @ BOTTOM OF LINTEL CAVITY
- 1B**: QUANTITY OF #5 FIELD ADDED REBAR @ TOP OF COMPOSITE LINTEL
- 1T**: QUANTITY OF #5 FIELD ADDED REBAR @ TOP OF COMPOSITE LINTEL
- 8**: NOMINAL WIDTH
- 1**: NOMINAL HEIGHT
- F**: FILLED W/ GROUT / **U**: UNFILLED / **S**: SOLID

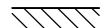
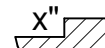
## FRAMING LEGEND

|        |                                                |
|--------|------------------------------------------------|
| RT     | PRE-ENGINEERED ROOF TRUSSES @ 24" O/C MAX.     |
| RGT    | PRE-ENGINEERED ROOF GIRDER TRUSS               |
| FT     | 20" PRE-ENGINEERED FLOOR TRUSSES @ 16" O/C MAX |
| J1016  | 2X10 JOISTS @ 16" O/C MAX.                     |
| LVL212 | DOUBLE 1.75"X 12" LVL BEAM                     |
| B212   | DOUBLE 2X12 BEAM                               |
| B310   | TRIPLE 2X10 BEAM                               |
| B210   | DOUBLE 2X10 BEAM                               |
| L112   | SINGLE 2X12 LEDGER BOARD                       |

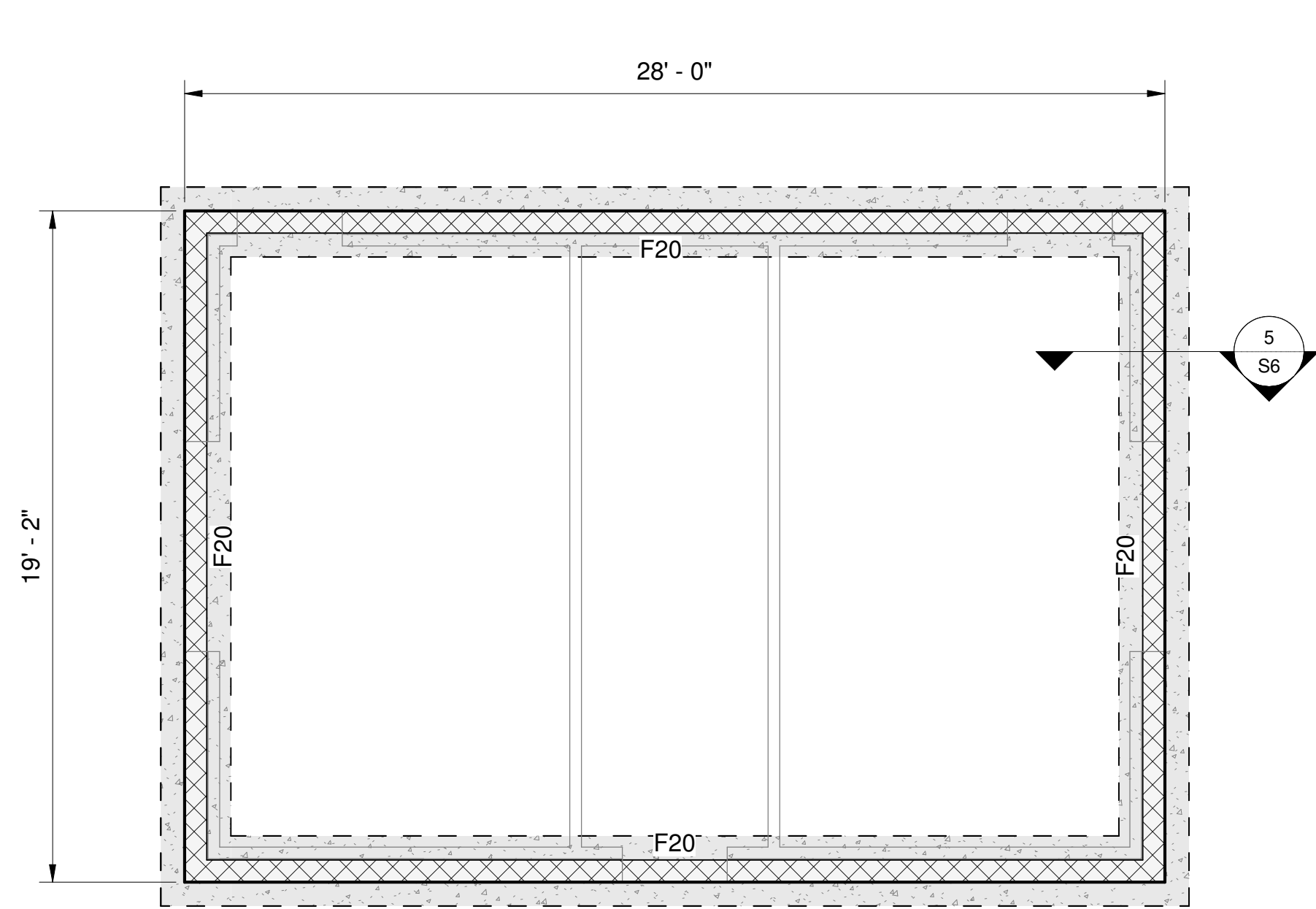
NOTES:

1. ALL LINTELS SHALL HAVE 8" MIN. BEARING @ EA. END.
2. ALL LINTELS SHALL BE FILLED W/ 4000 PSI GROUT MIN.
3. DESIGN IS BASED ON CAST-CRETE PRECAST LINTEL TYPES.
4. LINTELS THAT COVER SPAN 8'-0" AND GREATER SHALL BE PROVIDED WITH TEMPORARY SUPPORT AT MIDPOINT UNTIL GROUTED CONCRETE HAS REACHED FULL STRENGTH.

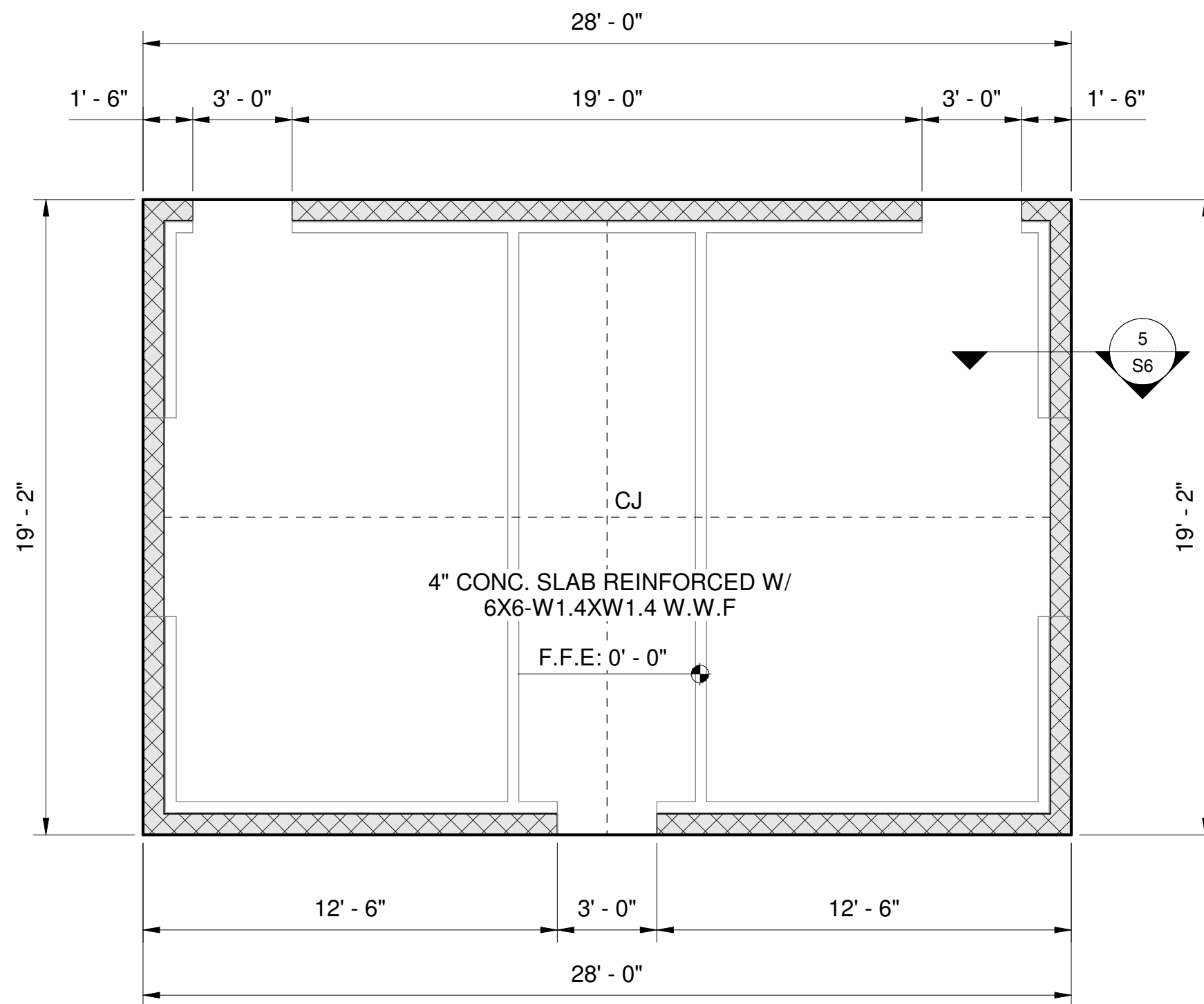
NOTES:

1. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, SLOPES, DRAINS, OPENINGS, AND FLOOR RECESSES.
2. TRUSS MANUF. TO REFER TO TRUSS DESIGN LOADS ON GENERAL NOTES SHEET.
3. ALL WOOD LOAD BEARING HEADERS/BEAMS NOT SPECIFIED ON PLANS SHALL BE MIN. (3) 2X12 W/ (2) 1/2" PLYWOOD FLITCH PLATES TYP. FOR 2X6 WALLS AND (2) 2X12 1/2" PLYWOOD FLITCH PLATE FOR 2X4 WALLS (U.N.O.)
4. ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED UNLESS WATERPROOFED BY A CERTIFIED CONTRACTOR.
5. ALL FASTENERS/STRAPS/CLIPS/HANGER ETC. THAT ARE LOCATED OUTSIDE THE BUILDING ENVELOPE OF THE HOUSE SHALL BE STAINLESS STEEL GR.304 OR GR. 316 OR GALVANIZED.
6. ALL BEAM TO BEAM/WALL CONNECTIONS TO BE MADE WITH SIMPSON HUCQ612-SDS/HHU5.5/10 U.N.O.
7.  - INDICATES LOCATION OF MIN. 4 PLY 2X STUD PACK STRAPPED TO BEAM/TRUSS ABOVE W/ (2) MTS20 STRAP OR APPROVED SIMILAR. ATTACH BASE OF ROOF SUPPORTING STUD PACKS TO FRAMING BELOW W/ (2) MTS20 STRAPS AND/OR TO CONCRETE FOUNDATION W/ SIMPSON HDU5-SDS2.5.
8.  - INDICATES LOCATION OF 2X FRAMED INTERIOR LOAD BEARING WALL.
9.  - INDICATES LOCATION OF FULLY GROUTED 8" CMU WALL REINFORCED WITH # 5 VERTICAL REBARS @ 32" O/C AND PER DETAIL 9/55.
10.  - INDICATES LOCATION OF X" STEP.

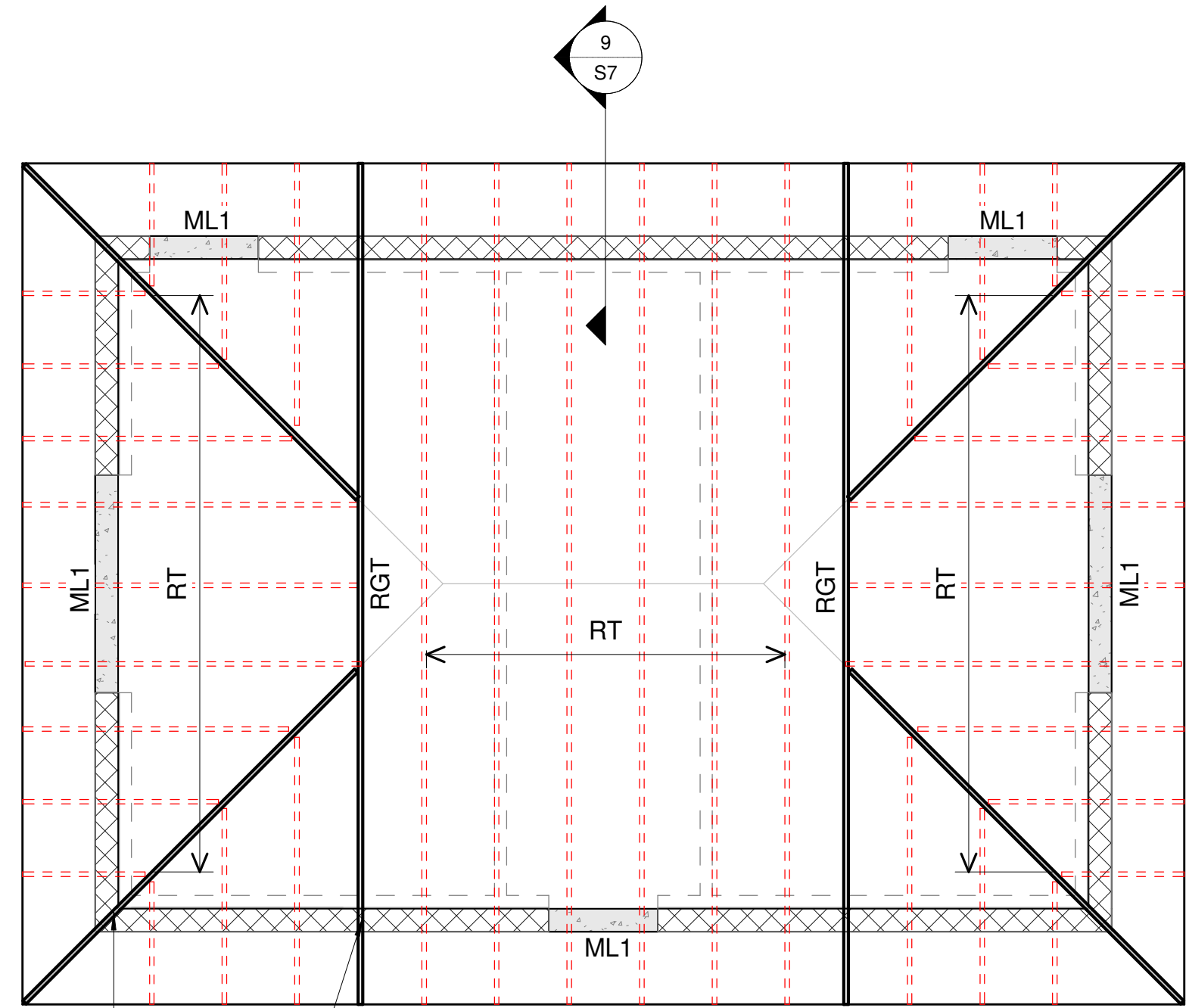




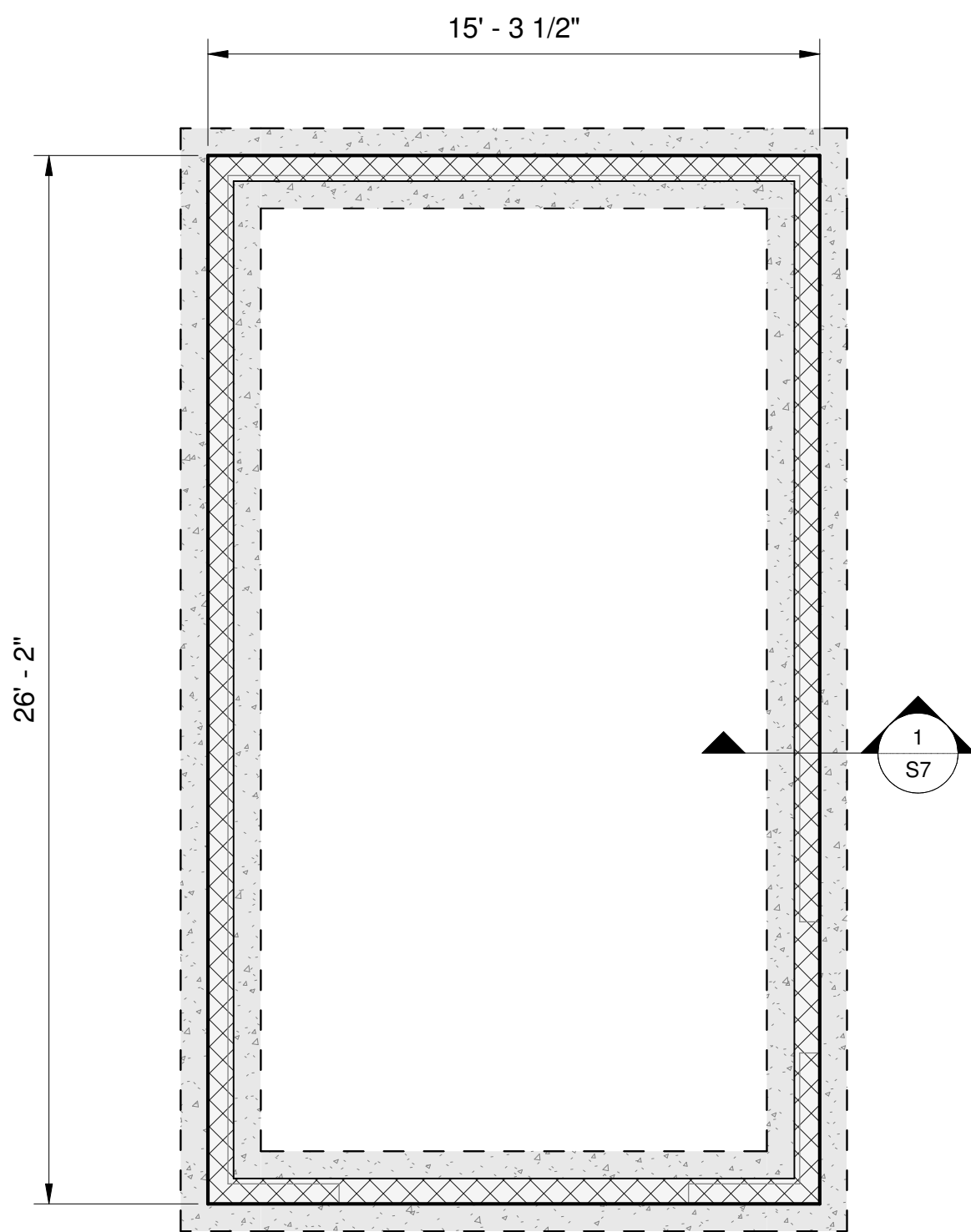
1 RESTROOM FOUNDATION PLAN  
1/4" = 1'-0"



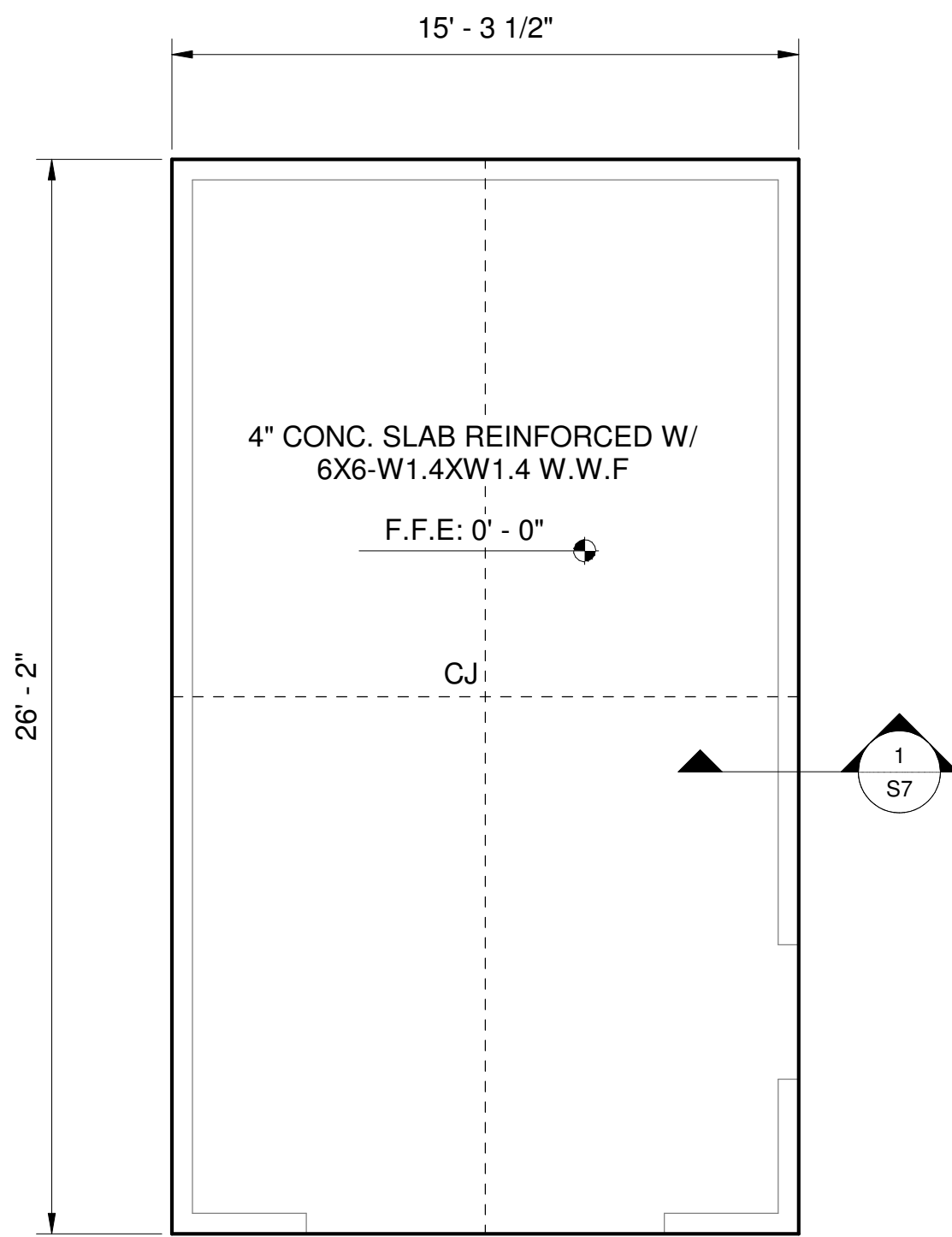
2 RESTROOM SLAB PLAN  
1/4" = 1'-0"



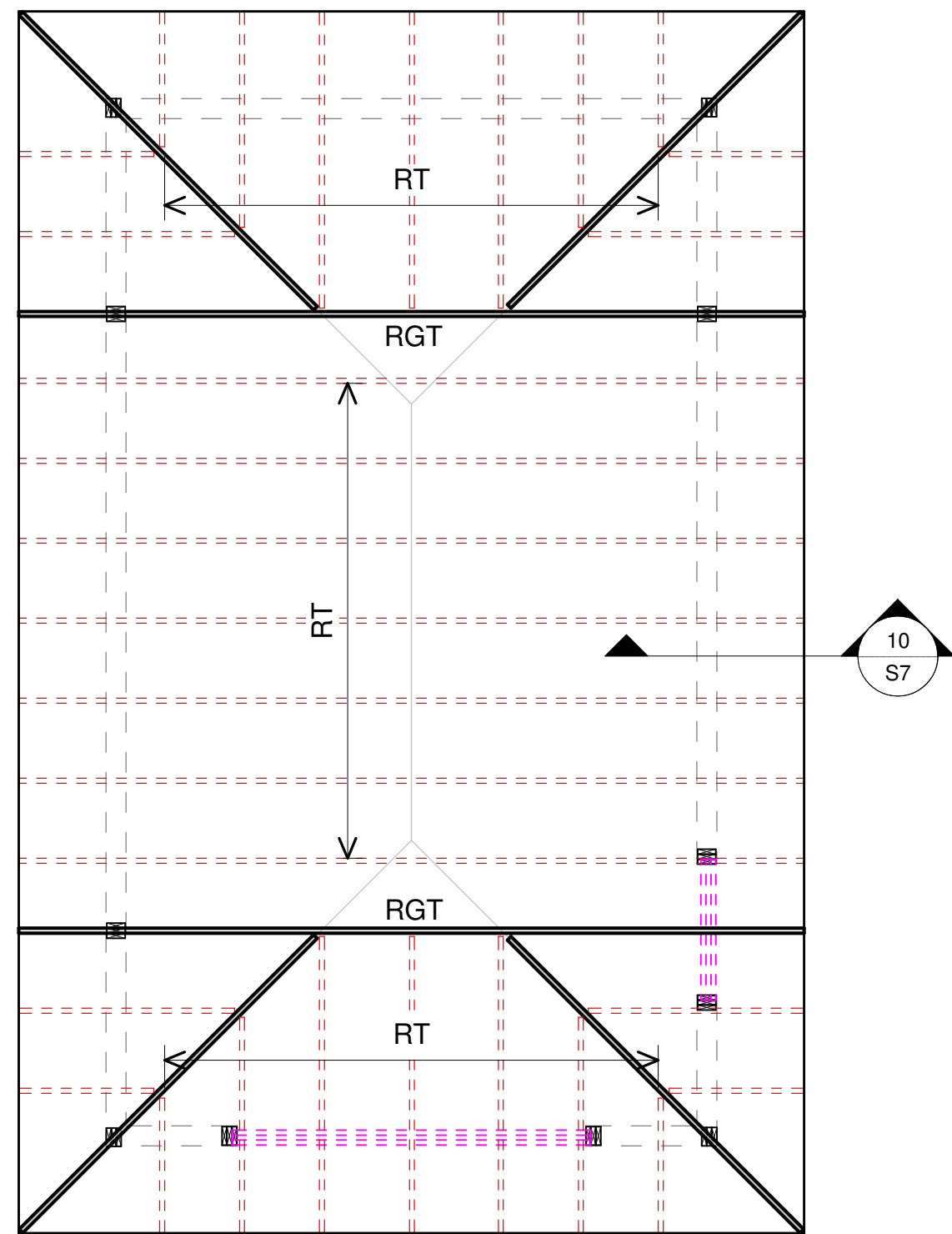
3 RESTROOM ROOF FRAMING PLAN  
1/4" = 1'-0"



4 BUILDING B FOUNDATION PLAN  
1/4" = 1'-0"



5 BUILDING B SLAB PLAN  
1/4" = 1'-0"

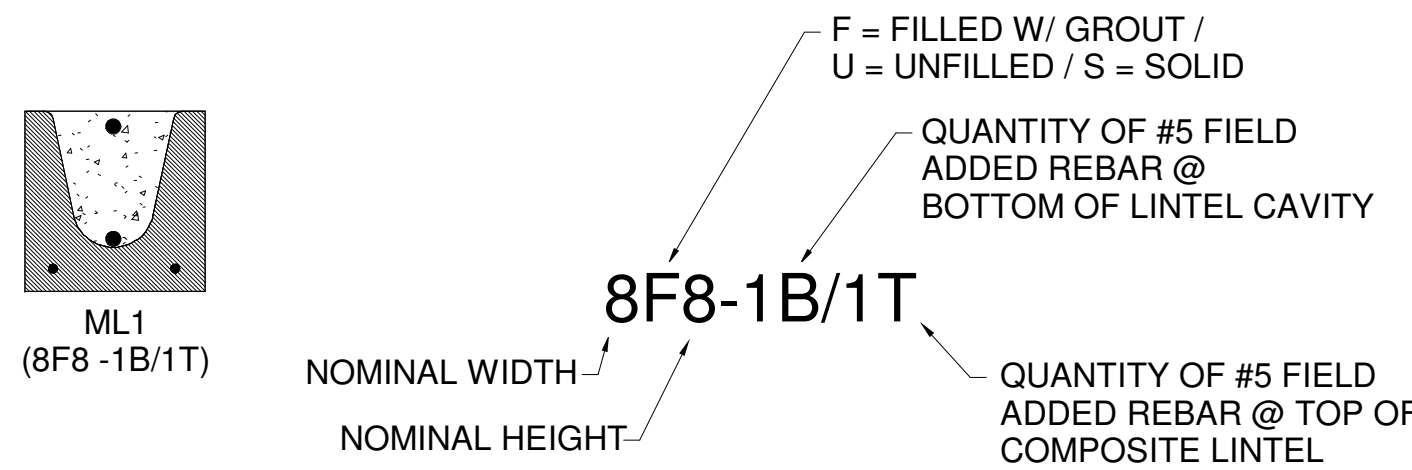


6 BUILDING B ROOF FRAMING PLAN  
1/4" = 1'-0"

NOTES:

- SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, SLOPES, DRAINS, OPENINGS, AND FLOOR RECESSES.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRMENTS DURING CONSTRUCTION.
- TRUSS MANUF. TO REFER TO TRUSS DESIGN LOADS ON GENERAL NOTES SHEET.
- ALL WOOD LOAD BEARING HEADERS/BEAMS NOT SPECIFIED ON PLANS SHALL BE MIN. (3) 2X12 W/ (2) 1/2" PLYWOOD FLITCH PLATES TYP. FOR 2X6 WALLS AND (2) 2X12 1/2" PLYWOOD FLITCH PLATE FOR 2X4 WALLS (U.N.O.)
- ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED UNLESS WATERPROOFED BY A CERTIFIED CONTRACTOR.
- ALL FASTENERS/STRAPS/CLIPS/HANGER ETC. THAT ARE LOCATED OUTSIDE THE BUILDING ENVELOPE OF THE HOUSE SHALL BE STAINLESS STEEL GR.304 OR GR. 316 OR GALVANIZED.
- CJ - INDICATES LOCATION OF CONTROL JOINTS. SEE DETAIL 3/S5.
- INDICATES LOCATION OF MIN. 4 PLY 2X STUD PACK STRAPPED TO BEAM/TRUSS ABOVE W/ (2) MTS20 STRAP OR APPROVED SIMILAR. ATTACH BASE OF ROOF SUPPORTING STUD PACKS TO FRAMING BELOW W/ (2) MTS20 STRAPS AND/OR TO CONCRETE FOUNDATION W/ SIMPSON HDU5-SDS2.5.
- INDICATES LOCATION OF FULLY GROUTED 8" CMU STEM WALL REINFORCED WITH # 5 VERTICAL REBARS @ 32" O/C AND PER DETAIL 9/S5.

CAST-CRETE LINTEL SCHEDULE



NOTES:

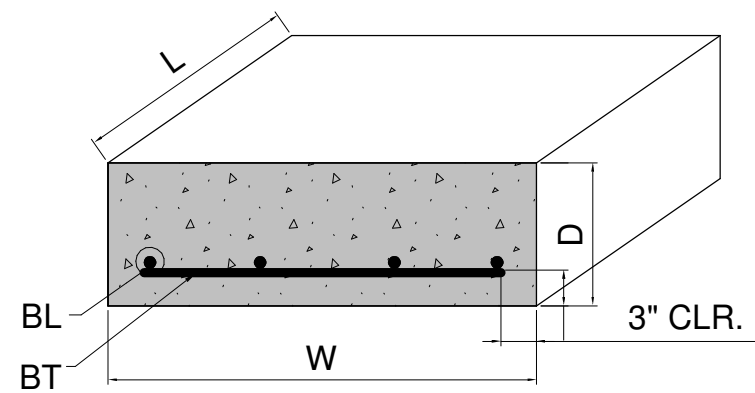
- ALL LINTELS SHALL HAVE 8" MIN. BEARING @ EA. END.
- ALL LINTELS SHALL BE FILLED W/ 4000 PSI GROUT MIN.
- DESIGN IS BASED ON CAST-CRETE PRECAST LINTEL TYPES.
- LINTELS THAT COVER SPAN 8'-0" AND GREATER SHALL BE PROVIDED WITH TEMPORARY SUPPORT AT MIDPOINT UNTIL GROUTED CONCRETE HAS REACHED FULL STRENGTH.

FRAMING LEGEND

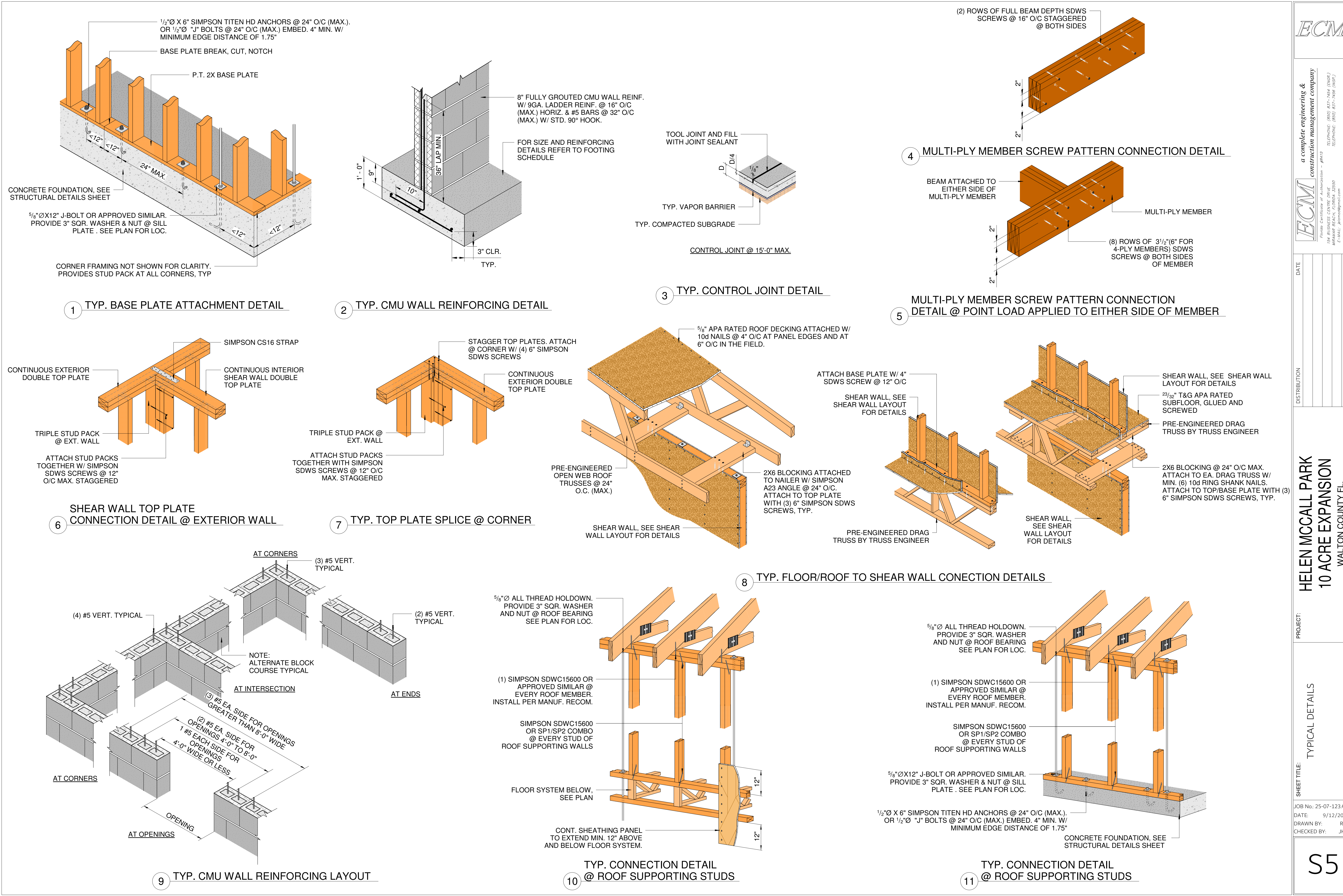
|     |                                            |
|-----|--------------------------------------------|
| RT  | PRE-ENGINEERED ROOF TRUSSES @ 24" O/C MAX. |
| RGT | PRE-ENGINEERED ROOF GIRDER TRUSS           |

FOUNDATION SCHEDULE

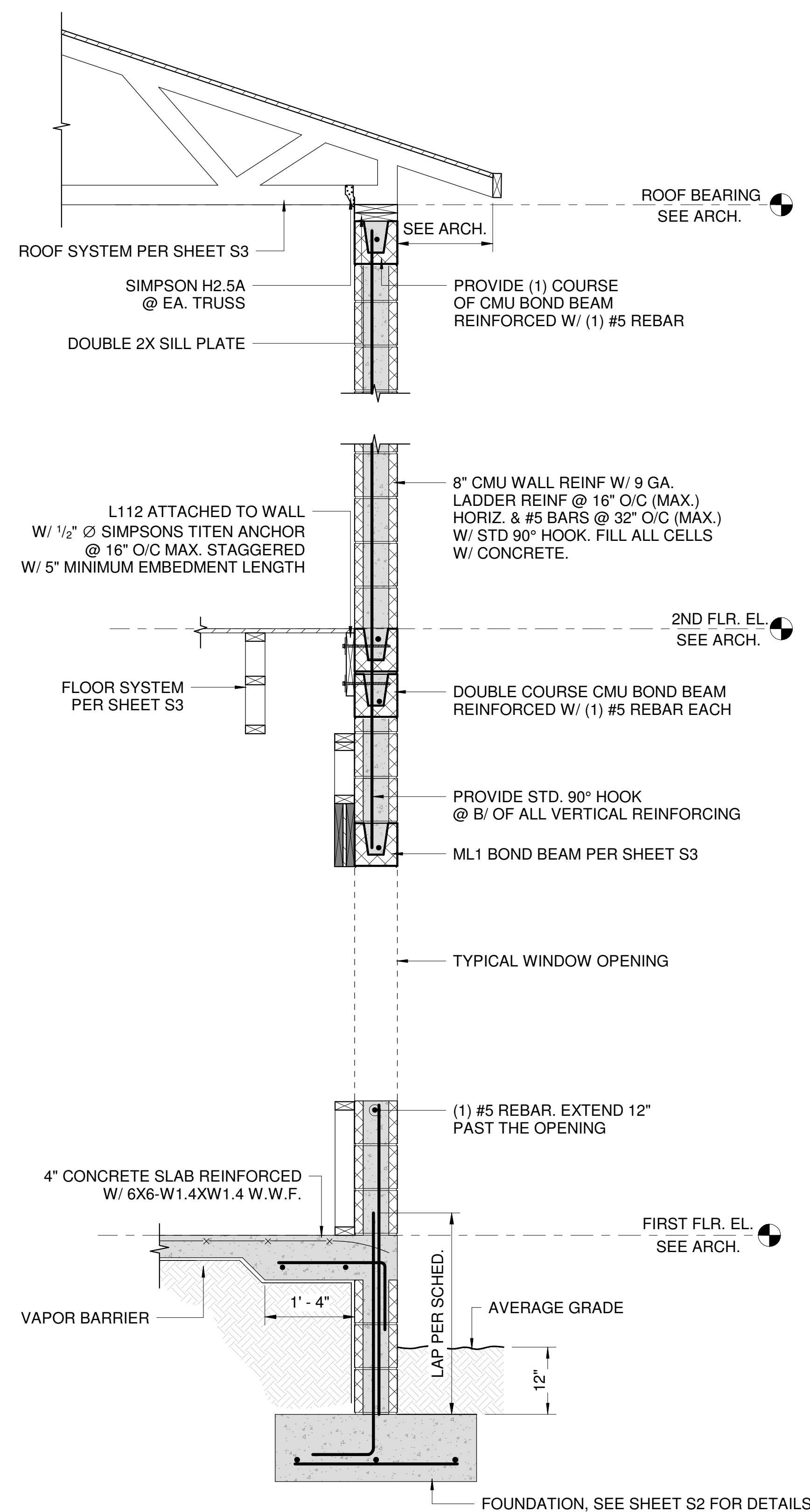
| LABEL | TYPE  | SIZE      |            |           | BOTTOM REINFORCING |                    |
|-------|-------|-----------|------------|-----------|--------------------|--------------------|
|       |       | (W) WIDTH | (L) LENGTH | (D) DEPTH | BL, LONGITUDINAL   | BT, TRANSVERSE     |
| F20   | CONT. | 2' - 0"   | CONT.      | 1' - 0"   | 2- #5 CONT.        | (1) - #5 @ 14" O/C |



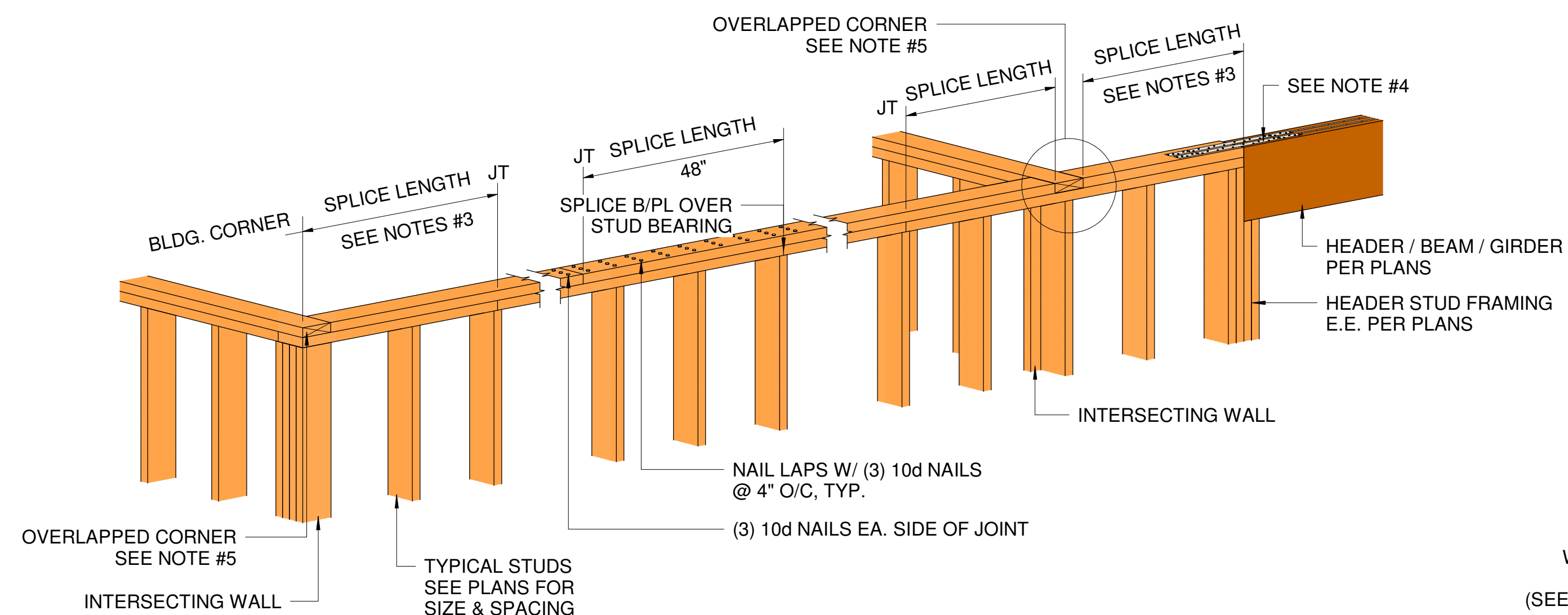








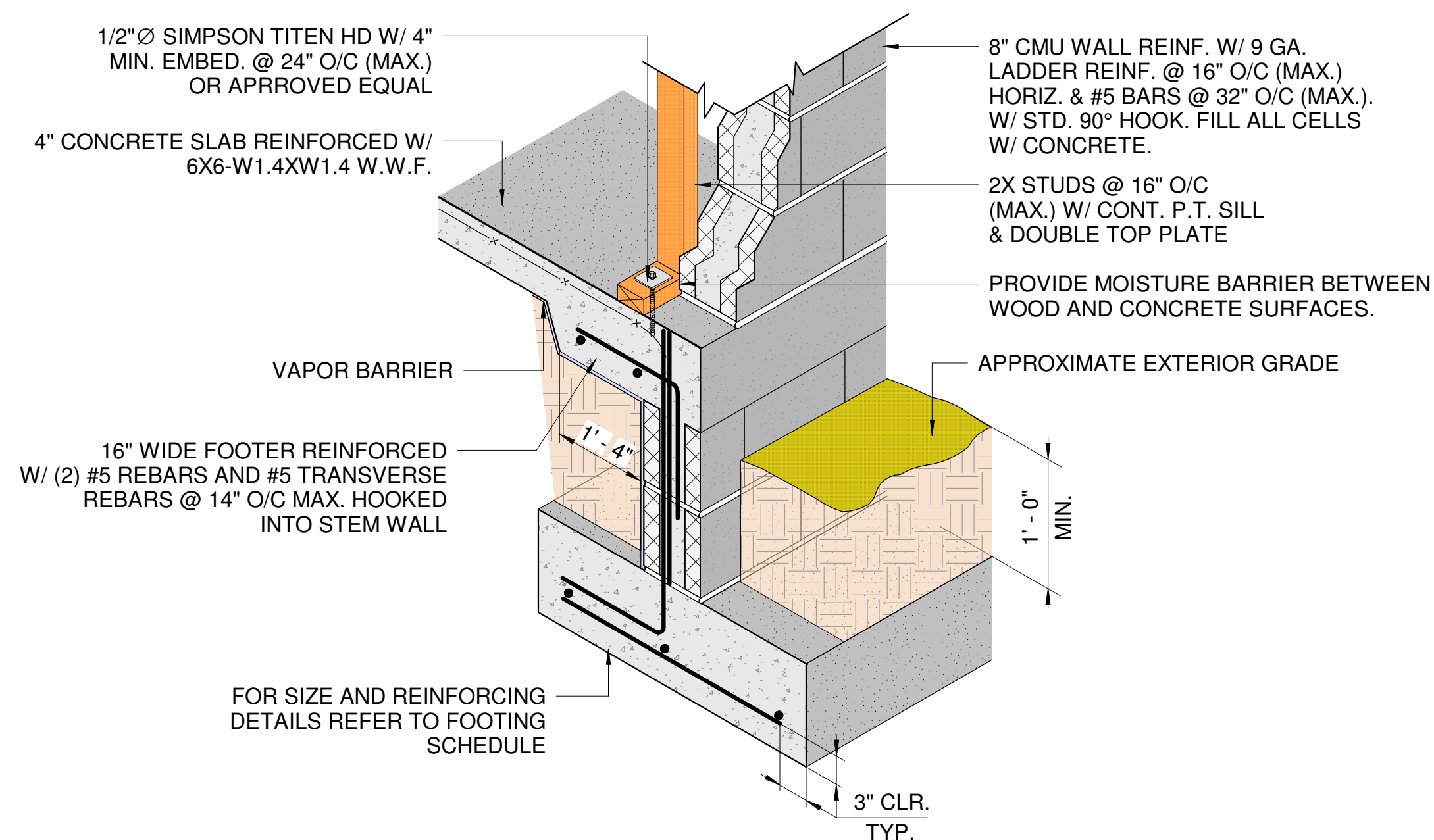
1 TYPICAL CMU WALL SECTION



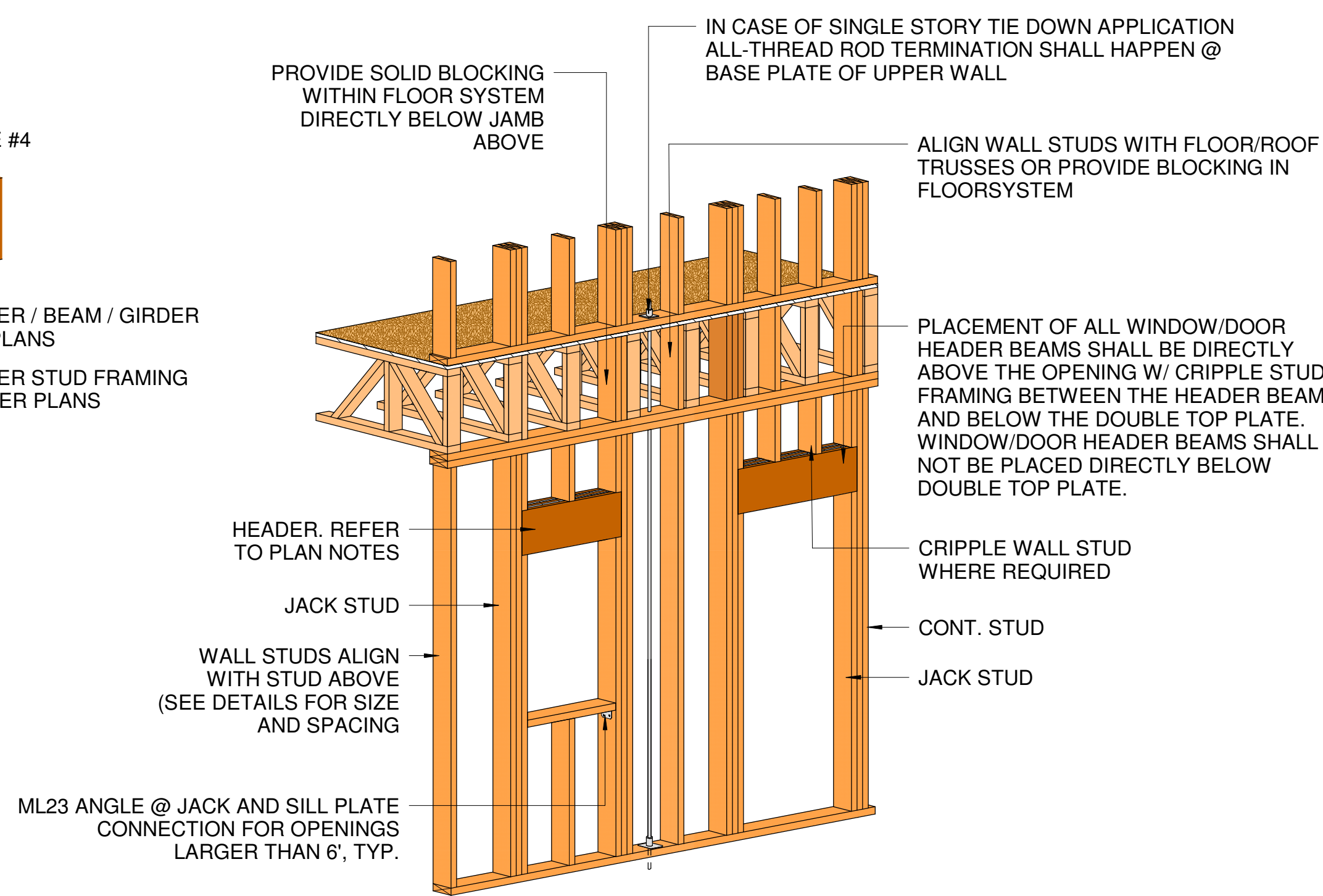
NOTE:

1. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS.
2. NAIL TOP PLATE MEMBERS ALONG LENGTH WITH (2) 10d BOX (3" X 0.128" OR 3" X 0.131") NAILS @ 12" O/C.
3. END JOINTS IN TOP PLATES SHALL BE OFFSET NOT LESS THAN 24 INCHES.
4. OMISSION OF THE TOP PLATE IS PERMITTED OVER HEADERS WHERE THE HEADERS ARE ADEQUATELY TIED TO ADJACENT WALL SECTIONS USING A (2) SIMPSON LSTA24 STRAPS. FILL ALL HOLES W/ 10d NAILS.
5. CONNECT TOP PLATE LAPPED CORNERS AND INTERSECTIONS WITH MIN. (5) 10d NAILS.
6. ALL WALL FRAMING MEMBER CONNECTIONS NOT NOTED OR SHOWN SHALL MEET THE MINIMUM REQUIREMENTS OF 2023 FBC TABLE R602.3(1) FASTENING SCHEDULE U.N.O..

## 2 TOP PLATE SPLICING DETAIL

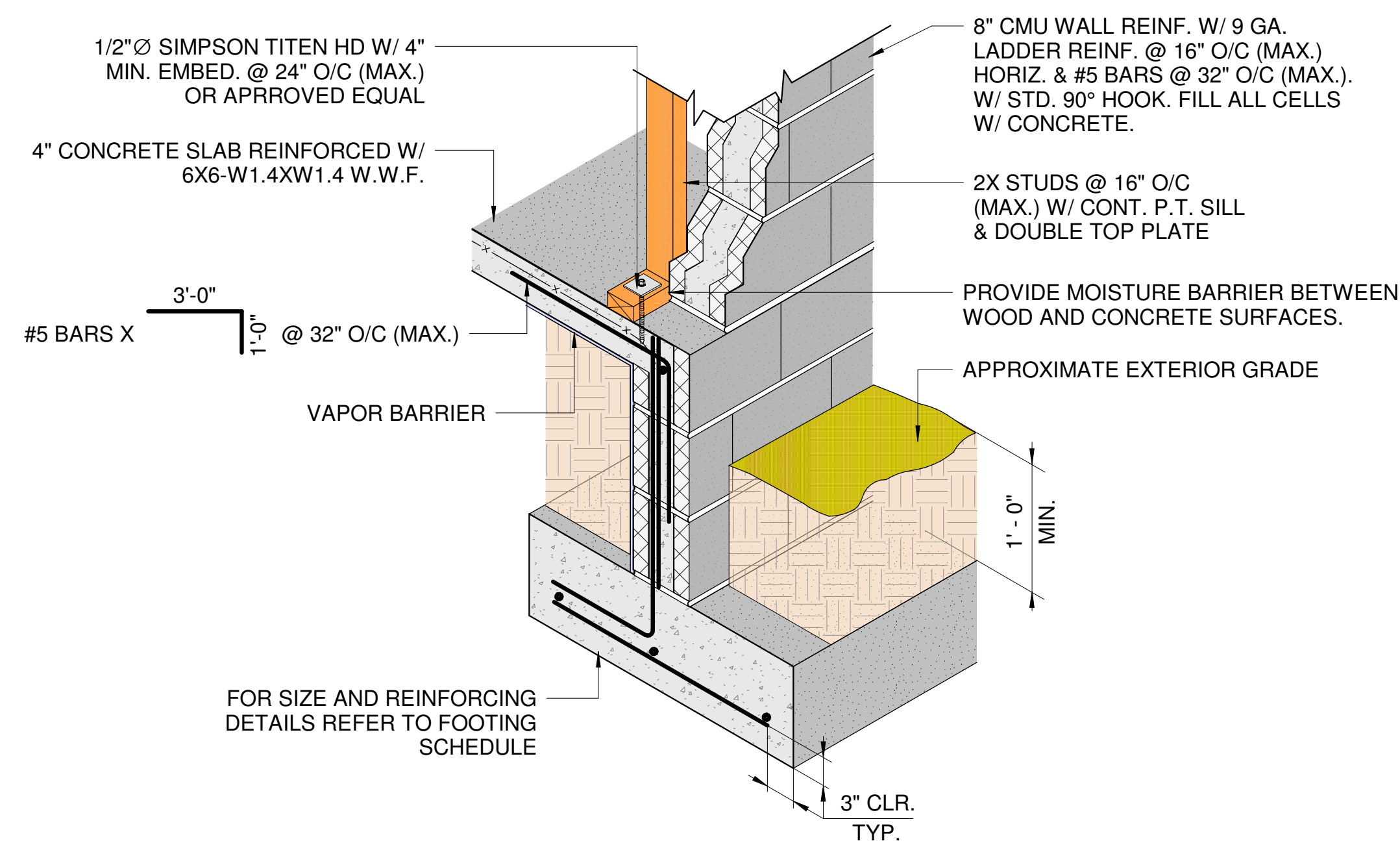


4 TYP. FOUNDATION DETAIL @ EXT. WALL



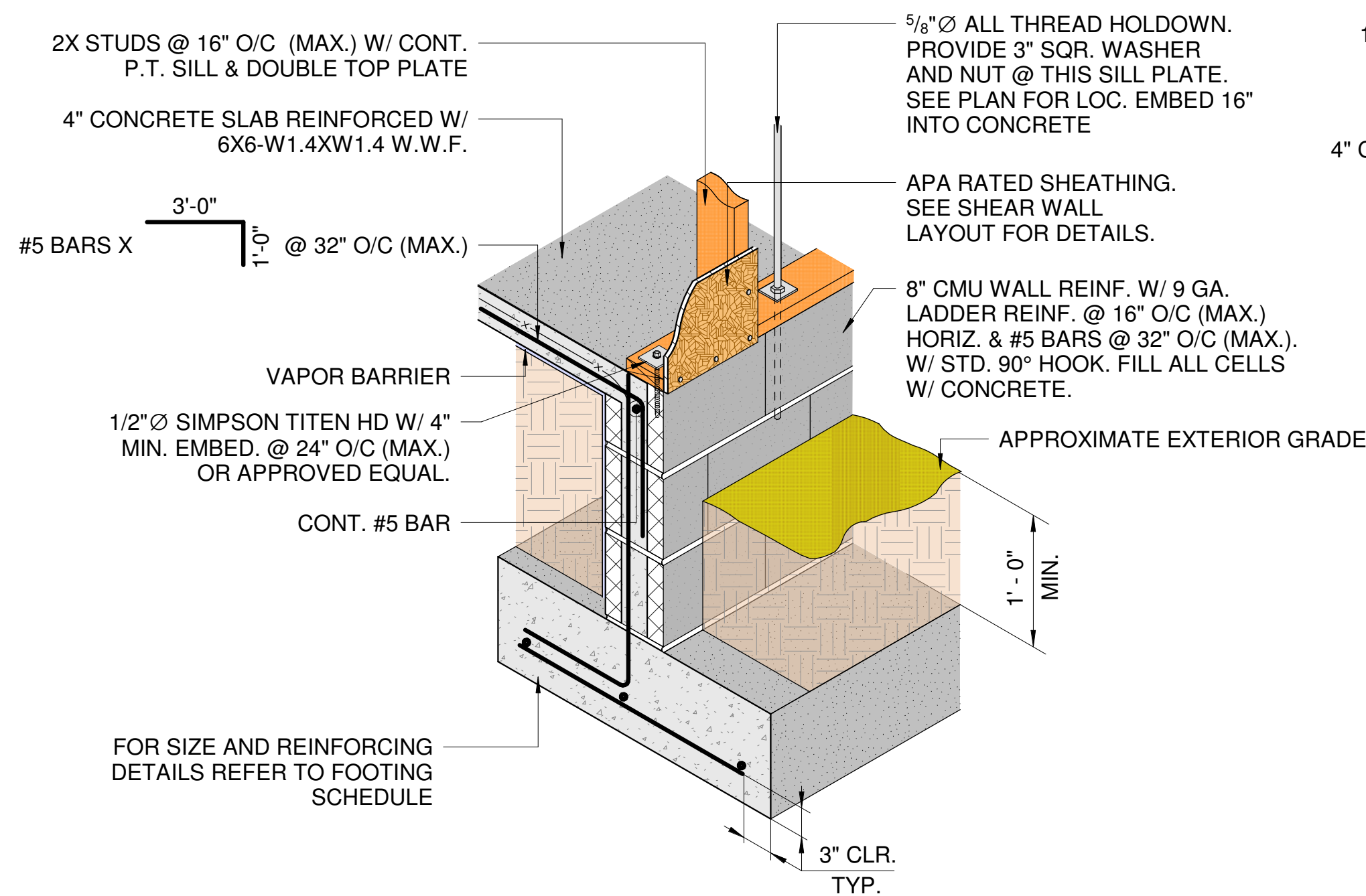
| ROUGH OPENING FRAMING TABLE |       |                     |       |                      |       |
|-----------------------------|-------|---------------------|-------|----------------------|-------|
| UP TO 3'-0" R.O.            |       | 3'-1" TO 6'-0" R.O. |       | 6'-1" TO 10'-0" R.O. |       |
| CONT.                       | JACK  | CONT.               | JACK  | CONT.                | JACK  |
| 2-2X6                       | 1-2X6 | 2-2X6               | 2-2X6 | 3-2X6                | 3-2X6 |

### 3 TYPICAL WALL FRAMING DETAIL @ HEADERS

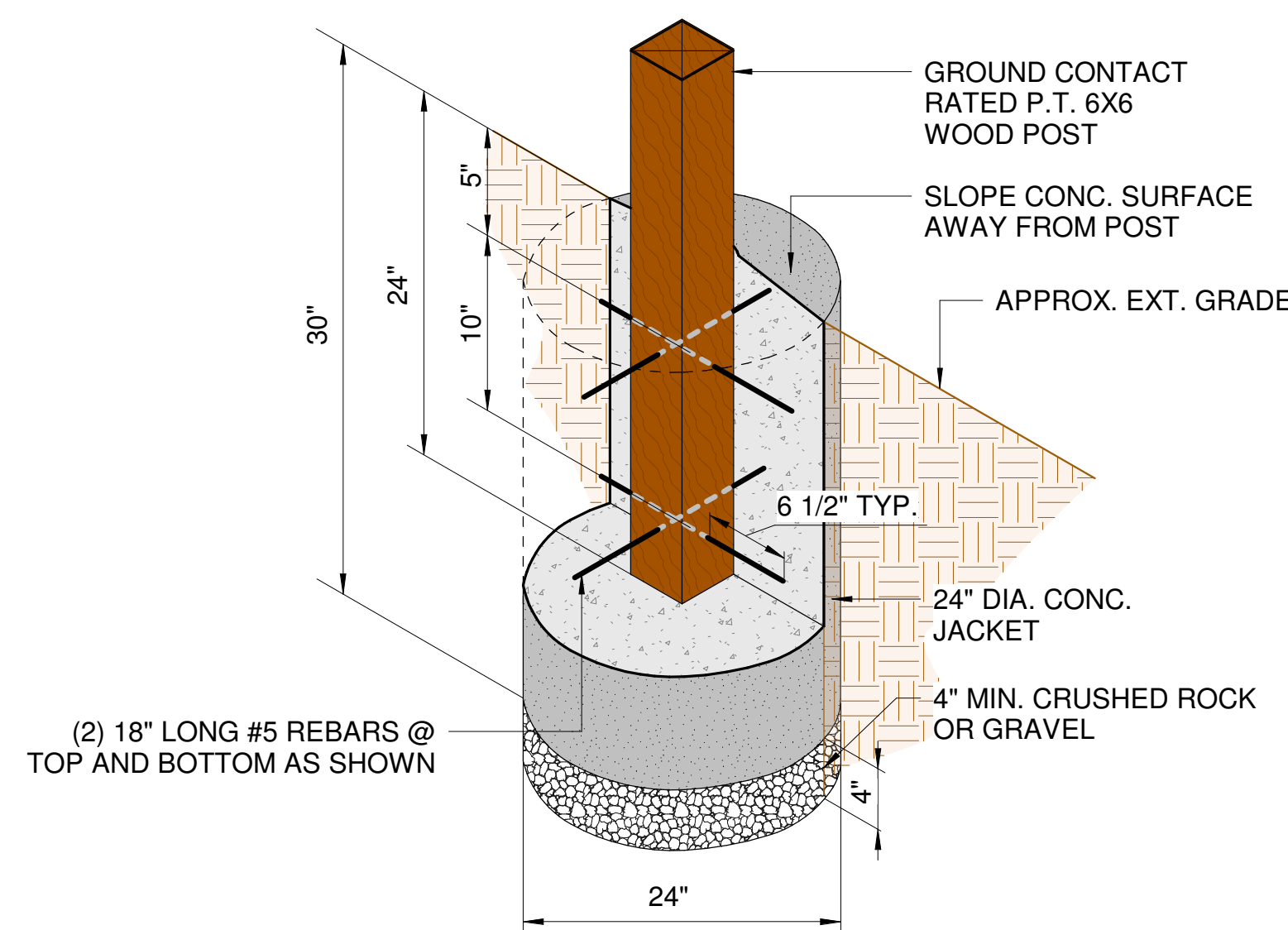


5 TYP. FOUNDATION DETAIL @ EXT. WALL

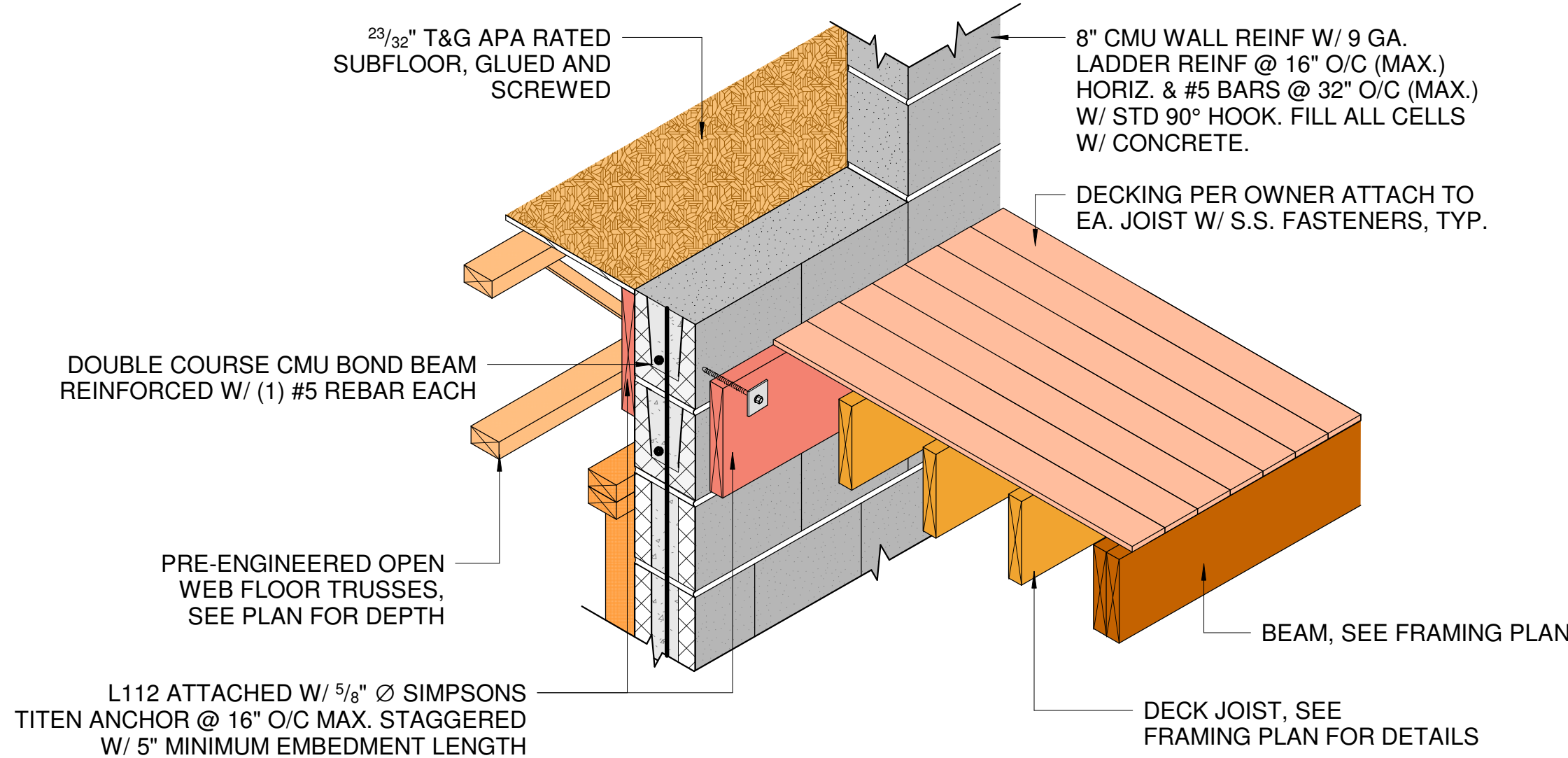




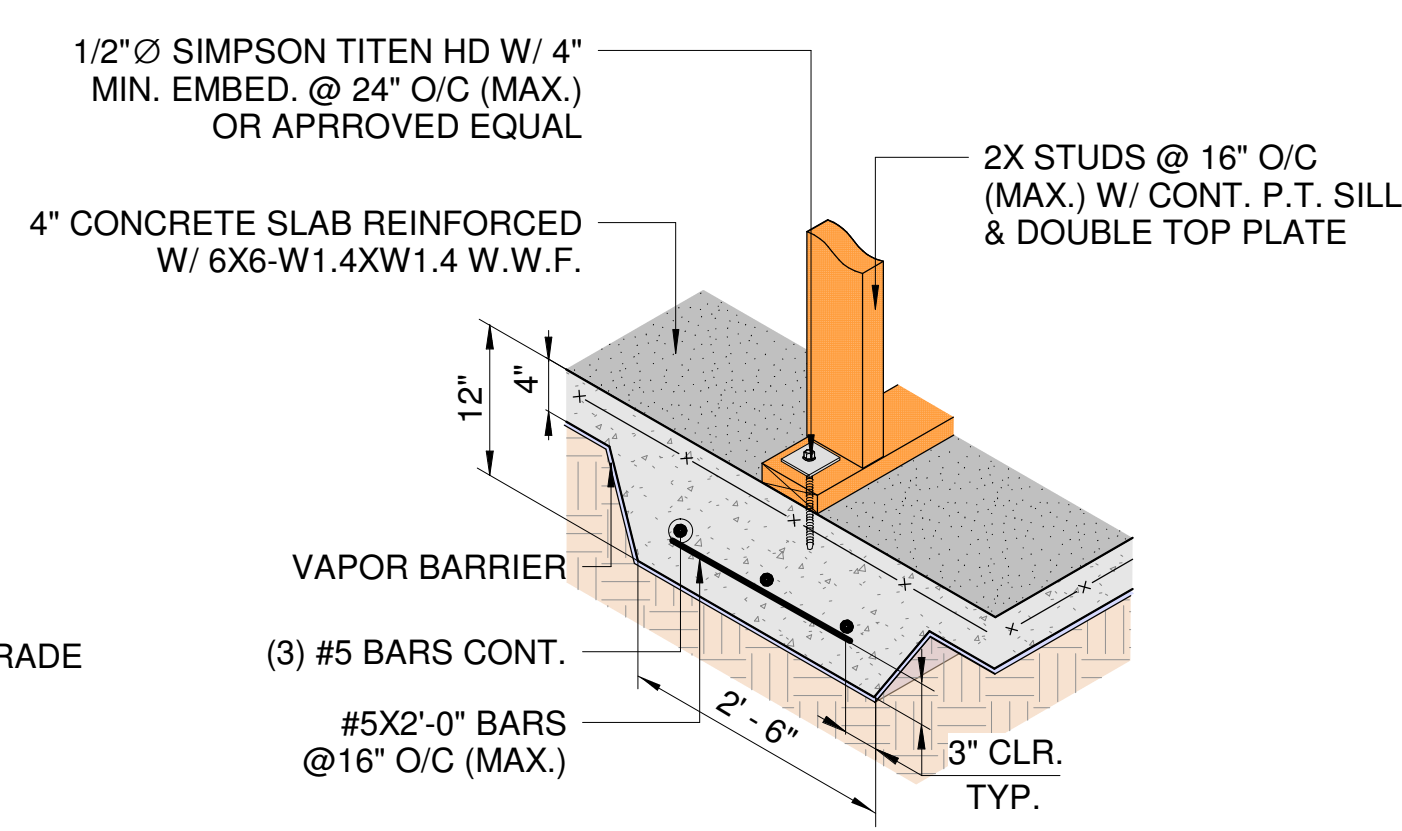
1 TYP. FOUNDATION DETAIL @ EXT. WALL



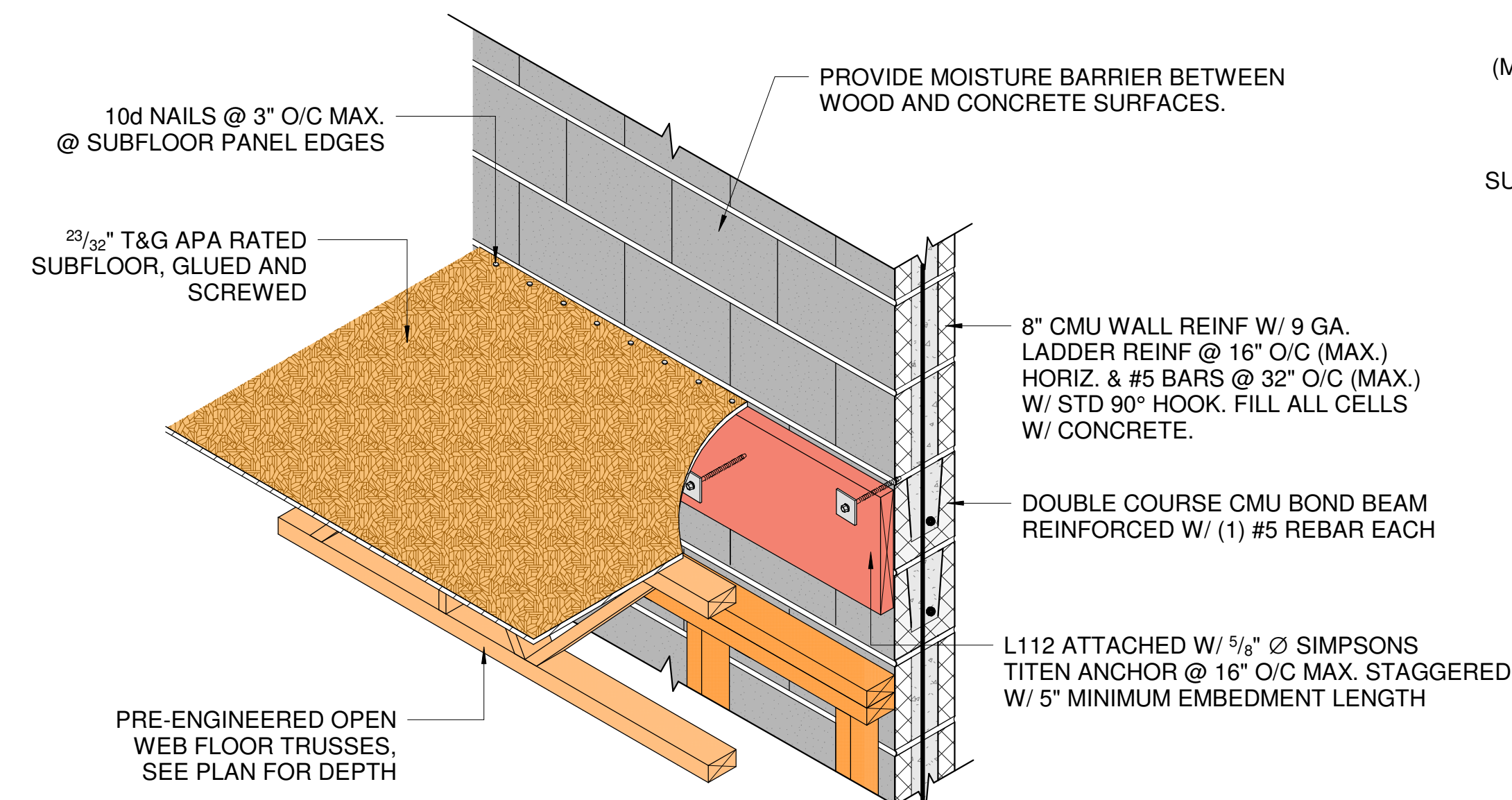
5 ALTERNATIVE FOUNDATION DETAIL @ 6X6 POST



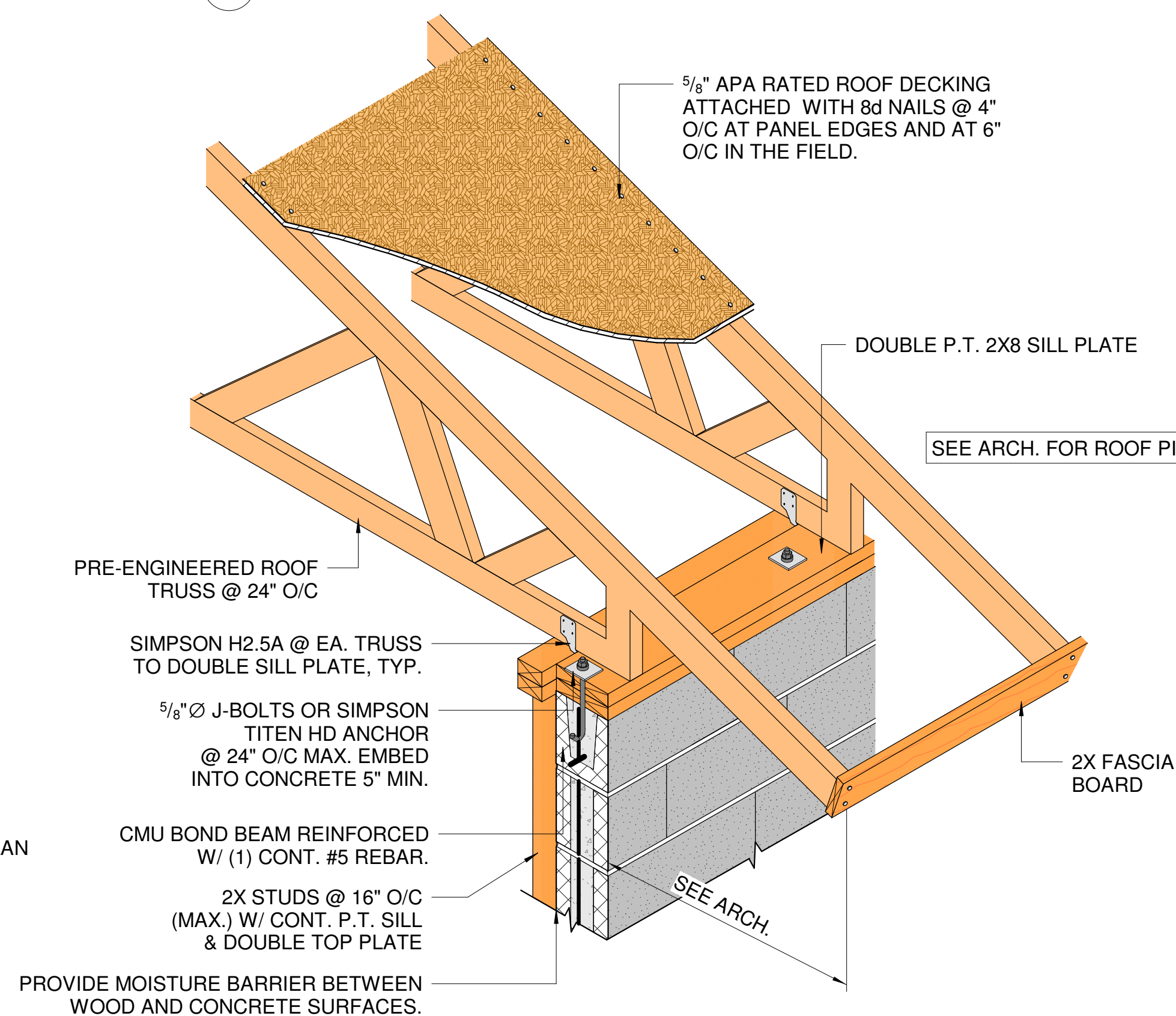
8 TYP. FRAMING DETAIL @ DECK



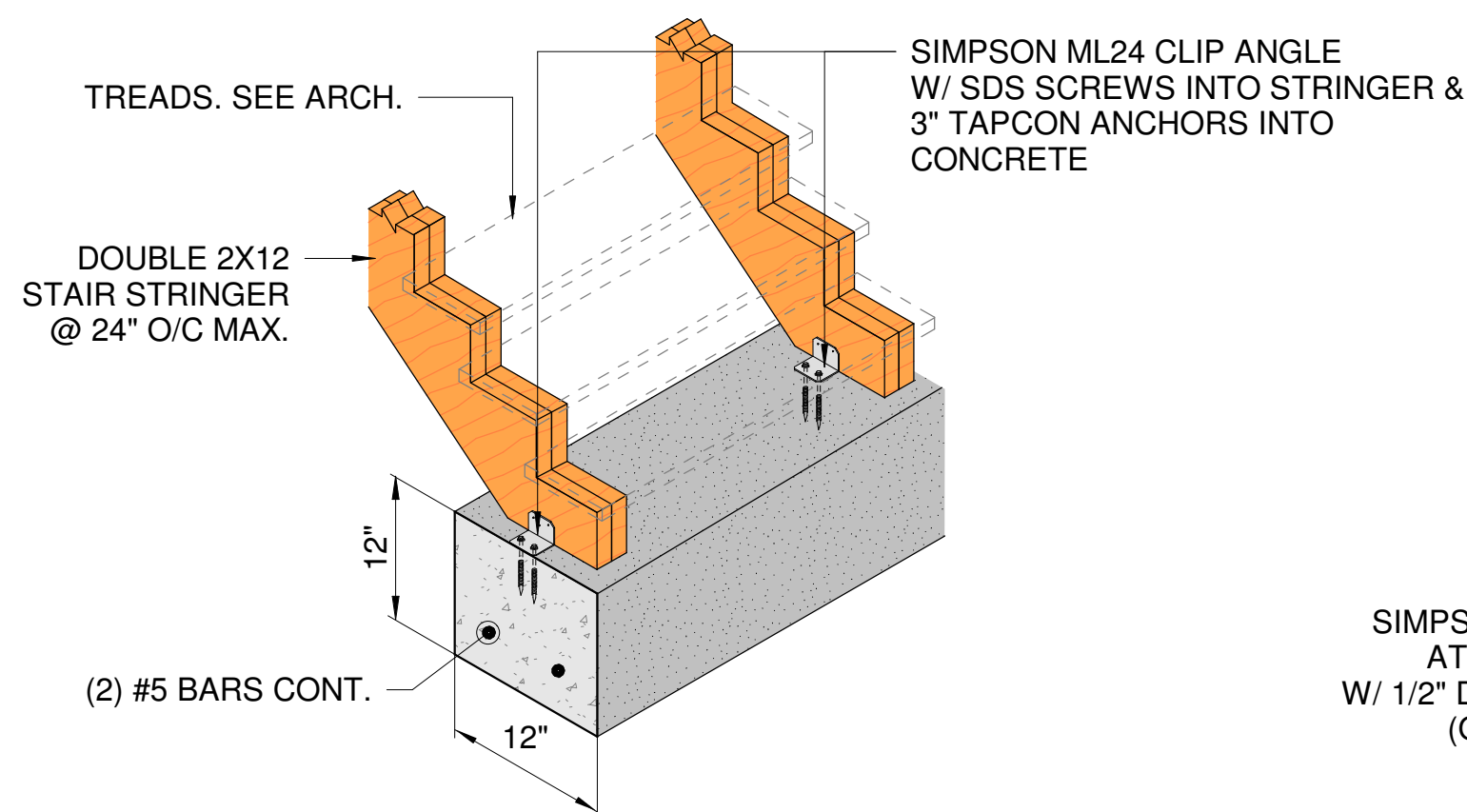
2 TYP. FOUNDATION DETAIL @ LOAD BEARING WALL



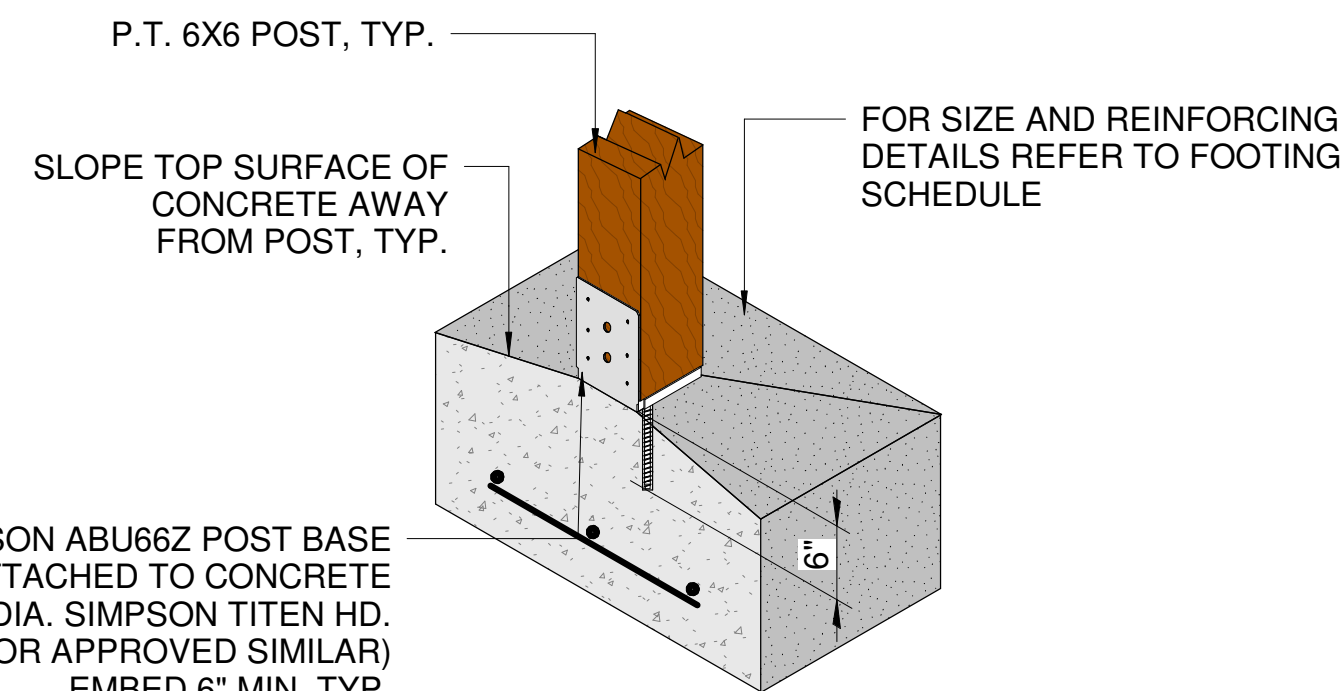
6 TYP. FRAMING DETAIL @ EXT. WALL



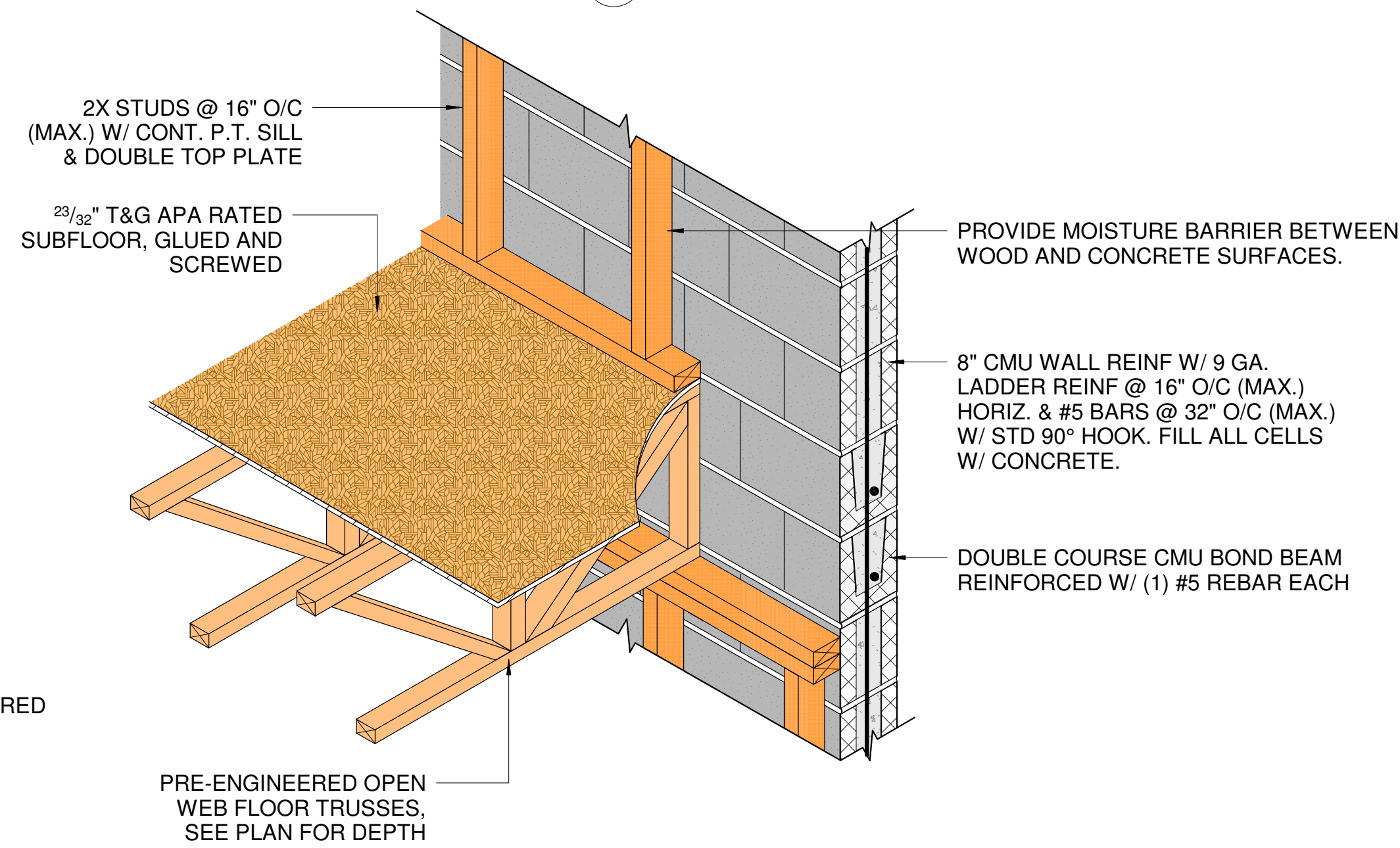
9 TYP. FRAMING DETAIL @ ROOF



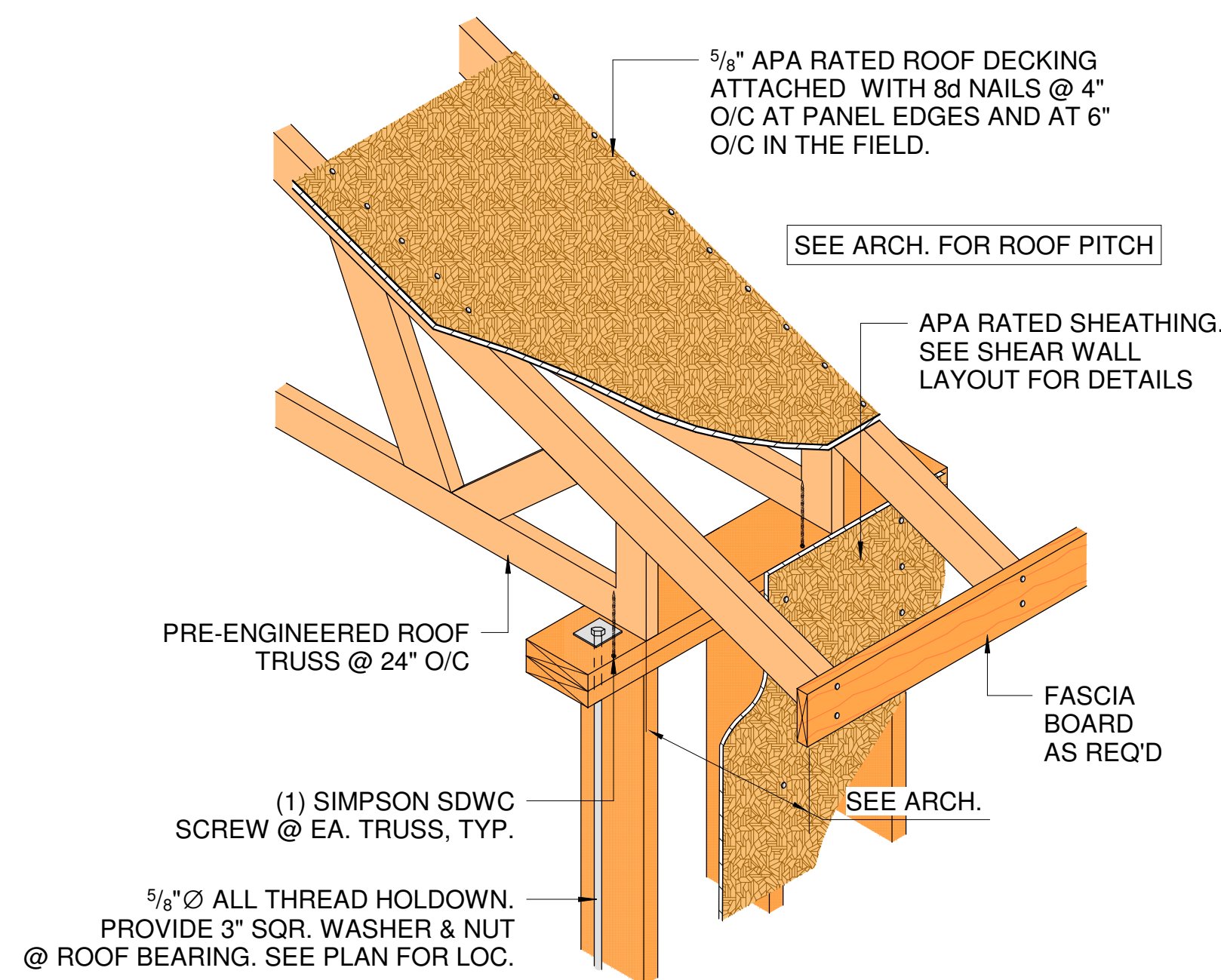
3 TYP. FOUNDATION DETAIL @ STAIR



4 TYP. FOUNDATION DETAIL @ 6X6 POST



7 TYP. FRAMING DETAIL @ EXT. WALL



10 TYP. FRAMING DETAIL @ ROOF



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E

D

C

B

A

## ELECTRICAL SPECIFICATIONS

### BASIC ELECTRICAL MATERIALS AND METHODS

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLOR-ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS. REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON PLANS.
- WITHIN 30 DAYS OF COMMENCEMENT, CONTRACTOR SHALL ARRANGE AND ATTEND A MEETING ON-SITE WITH A REPRESENTATIVE OF THE UTILITY TO COORDINATE THE REQUIREMENTS AND INSTALLATION OF THE NEW SERVICE.

### GROUNDING AND BONDING

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER (EXCEPT AS OTHERWISE SPECIFIED ON RISER); COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.
- GROUNDING ELECTRODE CONDUCTORS: STRANDED COPPER CABLE.
- UNDERGROUND CONDUCTORS: BARE, TINNED, STRANDED, UNLESS OTHERWISE INDICATED.
- CONNECTORS: COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.
- IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.
- EXOTHERMIC-WELED CONNECTIONS: USE FOR CONNECTIONS TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS.
- GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE, UNLESS OTHERWISE INDICATED. AVOID OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.
- BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS OR SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT.

### CONDUCTORS AND CABLES

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER.
- CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5 OR WC 7.
- TYPE MC CABLE SHALL BE PERMITTED IN CONCEALED LOCATIONS, WHERE PERMITTED BY CODE.
- BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY; TYPE MC CABLE.
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS WHERE PRACTICAL.
- USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DEGRADATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- IN EXPOSED LOCATIONS, ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN RACEWAY.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

### RACEWAYS AND BOXES

- PERMANENTLY LABEL ALL RACEWAYS AND JUNCTION/PULL BOX COVERS TO INDICATE PANEL/CIRCUIT NUMBERS CONTAINED.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE. DEVICE BOXES ON MASONRY WALLS SHALL BE RECESSED, AND RACEWAYS SHALL BE CONCEALED IN BLOCK WALLS.
- EXPOSED CONDUIT ALLOWED ONLY WITHIN UNFINISHED SPACES, EQUIPMENT CHASES, AND OTHER DEDICATED EQUIPMENT ROOMS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED, AND ACCESSIBLE LOCATIONS AND FILL THEM WITH UL-LISTED SEALING COMPOUND. INSTALL RACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES AND WHERE OTHERWISE REQUIRED BY NFPA 70.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

### WIRING DEVICES

- STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 208.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- DIMMERS SHALL BE SLIDE-TYPE, WITH PRESET. DIMMERS SHALL BE RATED FOR THE LOAD TYPE CONTROLLED (E.G., INCANDESCENT, LED, FLUORESCENT). DIMMERS SHALL BE RATED FOR 500W, MINIMUM; DERATE, AS PER MANUFACTURER'S RECOMMENDATIONS, FOR GANG INSTALLATION.
- DEVICE & COVERPLATE FINISH: MATCH EXISTING, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- AFTER INSTANTING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

### ENCLOSED SWITCHES

- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ALL ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA-3R UNLESS NOTED OTHERWISE.
- MOTOR STARTERS SHALL BE NEMA-RATED, WITH OVERLOADS SIZED PER LOAD. COORDINATE COIL VOLTAGE WITH CONTROLS.

### PANELBOARDS

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- MOUNT TOP OF TRIM 74 INCHES (1880 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH.
- INSTALL FILLER PLATES IN UNUSED SPACES.
- PROVIDE NEW TYPE-WRITTEN PANEL DIRECTORIES, SHOWING ALL EXISTING AND NEW CIRCUITS.
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS. WHERE BREAKER IS SERVING HARD-WIRED APPLIANCE WITHOUT A SEPARATE DISCONNECT, PROVIDE A PERMANENTLY INSTALLED PROVISION TO LOCK THE BREAKER IN THE "OFF" POSITION.

### LIGHTING

- LIGHTING FIXTURES: PER FIXTURE SCHEDULE ON PROJECT PLANS.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. PROVIDE LAMPS/DRIVERS FOR ALL FIXTURES.
- FOR EMERGENCY LIGHTING FIXTURES, PROVIDE UNSWITCHED HOT CONDUCTOR AS INDICATED ON THE PLANS.
- PROVIDE ALL BACKBOXES, SUPPORTS, STEMS, ROUGH-INS, TRIMS, HARDWARE, LAMPS, DRIVERS, AND BALLASTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- PROVIDE LOW-VOLTAGE WIRING AS REQUIRED FOR DIMMING AND CONTROLS.
- WHERE INTEGRAL EMERGENCY BATTERY BACKUP IS INDICATED, PROVIDE FIXTURE WITH INTEGRAL TEST SWITCH.
- WHERE CEILING-MOUNTED OCCUPANCY SENSORS ARE USED, MANUAL SWITCHING SHALL BE INSTALLED ON LOAD-SIDE OF RELAY.
- IN EQUIPMENT ROOMS AND CHASES, FIELD-COORDINATE LOCATIONS OF FIXTURES WITH EQUIPMENT, DUCTWORK AND PIPING.

### LOW-VOLTAGE TRANSFORMERS

- MANUFACTURERS: TRANSFORMERS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, ABB, HAMMOND, OR SIEMENS.
- TRANSFORMERS SHALL BE UL-1561 LISTED.
- ENCLOSURES: VENTILATED.
- WINDINGS: ALUMINUM; INSULATION RATING: 220C.
- TEMPERATURE RISE: 150C.
- TAPS: (4) FULL-CAPACITY 2.5% (2+, 2-).
- MINIMUM IMPEDANCE OF 4.2% FOR TRANSFORMERS OVER 112.5KVA.

## Lighting Fixture Schedule

| TYPE | DESCRIPTION                                        | MNFR/SUPPLIER        | MODEL #                                   | LAMPS          | NOTES                                                           |
|------|----------------------------------------------------|----------------------|-------------------------------------------|----------------|-----------------------------------------------------------------|
| A    | 4FT SURFACE MOUNT LED WRAPAROUND                   | DAY-BRITE OR EQUAL   | OWL-4-40L-840-UNV-DIM                     | 37W LED        |                                                                 |
| B    | 2 FT WALL MOUNT LED                                | LIGHTOLIER OR EQUAL  | CLF7 2FT MIN10 20W 40K MV/VOLT CLP WHT    | 20W LED        | ABOVE MIRROR                                                    |
| C    | 7" LED SLIM SURFACE DOWN LIGHT                     | LIGHTOLIER OR EQUAL  | S7R-840K-10                               | 14.4W LED      |                                                                 |
| D    | LED WALL MOUNTED SCONCE                            | LUMINAIRE OR EQUAL   | SPC4 NB 34 MIN10 20W-40K-120-277V CLP BLK | 15W LED        | MOUNT 6'-6" TO CENTER                                           |
| E1   | WHITE THERMOPLASTIC LED EXIT LIGHT                 | CHLORIDE OR EQUAL    | VERWEM                                    | WITH UNIT      |                                                                 |
| E2   | WHITE THERMOPLASTIC LED EMERGENCY/EXIT LIGHT COMBO | CHLORIDE OR EQUAL    | VLTCR3R                                   | WITH UNIT      |                                                                 |
| EM   | EMERGENCY BATTERY LIGHT UNIT                       | CHLORIDE OR EQUAL    | VLLU2                                     | (2) 2W LED     | MOUNT 7'-6" AFF                                                 |
| F1   | LED WALL PACK                                      | STONCO OR EQUAL      | WP-60-SCT-G2-10-BZ                        | 40W LED        |                                                                 |
| F2   | LED WALL PACK                                      | STONCO OR EQUAL      | WP-100-SCT-G2-10-BZ                       | 80W LED        |                                                                 |
| G1   | LED HIGH BAY                                       | TGS OR EQUAL         | CHB-E-100W-40K-WD-U-D-PM-B-CHB-E-WG-B     | 100W LED       | PROVIDE 40W EMERGENCY INVERTER WHERE INDICATED, WITH WIRE GUARD |
| G2   | LED HIGH BAY                                       | TGS OR EQUAL         | CHB-E-150W-40K-WD-U-D-PM-B-CHB-E-WG-B     | 150W LED       | WITH WIRE GUARD                                                 |
| H    | WALL MOUNT LED DOUBLE HEAD FLOOD LIGHT             | STONCO OR EQUAL      | SL20-SCT-G1-8-BK                          | 20W LED        | MOUNT TO CORNER OF STRUCTURE AS HIGH AS POSSIBLE                |
| J    | FLAG SPOTLIGHT                                     | FC LIGHTING OR EQUAL | FCF1103 UNV 940 9L-BKE-15-CV3-K3          | 7W LED         | GROUND-MOUNT 6FT FROM BASE OF POLE, DIRECT TO LIGHT FLAG        |
| CF   | 52" CEILING FAN                                    | KICHLER OR EQUAL     | 310192WCP                                 | 100W ALLOWANCE | VERIFY FINISH WITH ARCHITECT                                    |
| ---  | ---                                                | ---                  | ---                                       | ---            | ---                                                             |

### LIGHTING NOTES:

- VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED.
- FIXTURES SHOWN ARE BASIS OF DESIGN; FIXTURES OF SIMILAR STYLE, PERFORMANCE, AND ELECTRICAL CHARACTERISTICS THAT ARE ACCEPTABLE TO THE OWNER AND ENGINEER WILL BE ALLOWED.
- PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.
- PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.
- PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION.

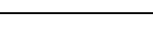
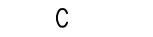
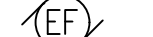
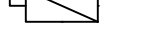
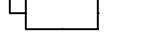
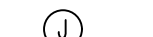
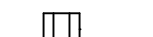
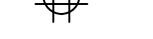
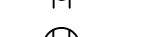
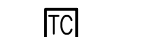
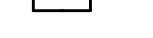
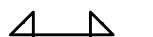
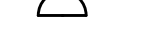
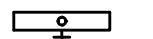
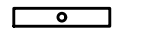
### ENERGY CONSERVATION REQUIREMENTS:

- WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL, AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
- RECORD DRAWINGS SHALL INCLUDE: A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM; AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- CONTRACTOR SHALL PROVIDE OPERATION MANUALS AND MAINTENANCE MANUALS TO THE OWNER FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- CONTRACTOR SHALL PROVIDE TO THE OWNER NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR ALL OCCUPANCY SENSORS YIELD ACCEPTABLE RESULTS.
- CONTRACTOR SHALL CONFIRM THAT TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- WHERE DAYLIGHT HARVESTING IS USED, CONTRACTOR SHALL CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
- CONTRACTOR SHALL PROGRAM AND ADJUST ALL CONTROLS AS NEEDED TO ACHIEVE PERFORMANCE THAT IS SATISFACTORY TO THE OWNER.
- CONTRACTOR SHALL TEST ALL LIGHTING CONTROL SYSTEMS TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.
- FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE ENERGY CONSERVATION SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE, AND CONTRACTOR SHALL DOCUMENT TESTING AS FOLLOWS: FOR EACH ITEM LISTED IN SECTION C408.3.1.1 AND C408.3.1.2, CONTRACTOR SHALL LIST THE TEST REQUIREMENT, INDICATE THAT THE TEST WAS "PASSED" OR WAS "NOT APPLICABLE" TO THE PROJECT; DOCUMENT SHALL BE SIGNED AND DATED BY THE TECHNICIAN PERFORMING THE TEST, AND ELECTRONIC COPY SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBSTANTIAL COMPLETION.
- DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF FLORIDA BUILDING CODE ENERGY CONSERVATION SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

## CODES AND STANDARDS

|                               |                                              |
|-------------------------------|----------------------------------------------|
| NFPA 70                       | NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION |
| NFPA 72                       | NATIONAL FIRE ALARM CODE, 2019 EDITION       |
| FLORIDA FIRE PREVENTION CODE, | EIGHTH EDITION.                              |
| FLORIDA BUILDING CODE,        | EIGHTH EDITION.                              |

## ELECTRICAL LEGEND



4FT LIGHTING FIXTURE.

WALL-MOUNTED LIGHTING FIXTURE LENGTH AS INDICATED.

RECESSED CAN LIGHTING FIXTURE.

WALL-MOUNTED LIGHTING FIXTURE.

WALL SCONCE.

HIGH-BAY LIGHT FIXTURE.

CEILING FAN. PROVIDE FAN-RATED BOX.

WALL MOUNTED MOTION ACTIVATED SECURITY LIGHT

POLE LIGHT.

LED EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT CONDUCTOR.

LED DOUBLE FACE EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT CONDUCTOR.

COMBINATION LED EXIT SIGN AND EMERGENCY AREA LIGHT WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.

WALL-MOUNTED EMERGENCY LIGHTING FIXTURE, WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.

120V/20A QUIET-TYPE SNAP SWITCH. SWITCHES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE.

WALL-SWITCH WITH OCCUPANCY SENSOR; MOUNT 44" A.F.F., UNLESS NOTED OTHERWISE. WATSTOPPER #PW-301, OR APPROVED EQUAL.

ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATSTOPPER #0T-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#0Z-250) AS REQUIRED. LOWER CASE LETTER "o" INDICATES TIME CLOCK.

20A/120V DUPLEX RECEPTACLE. MOUNT AT 18" A.F.F., UNLESS NOTED OTHERWISE.

20A/120V DUPLEX RECEPTACLE. MOUNT AT 44" A.F.F., UNLESS NOTED OTHERWISE.

120V/20A QUAD RECEPTACLE. NEW RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE.

120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE. "WP" INDICATES CAST-ALUMINUM WEATHERPROOF IN USE COVER.

120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 44" A.F.F. UNLESS NOTED OTHERWISE.

PROVIDE JUNCTION AND FLEX CONNECTION TO EQUIPMENT AS INDICATED. "HD" = HAND DRYER

PROVIDE JUNCTION.

ENCLOSED SAFETY SWITCH NON-FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.

ENCLOSED SAFETY SWITCH FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.

ELECTRICAL PANEL. SEE RISER PANEL SCHEDULES.

CIRCUIT CONDUCTORS IN CONDUIT OR CABLE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. 120V CIRCUIT HOMERUNS LONGER THAN 100FT SHALL BE #10 AWG, MINIMUM. PROVIDE DEDICATED GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. MC CABLE ALLOWED IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.

CONDUCTORS IN CONDUIT, CONCEALED IN WALLS, CEILING, OR BELOW GRADE. HOMERUN TO PANEL INDICATED.

CIRCUIT CONDUCTORS IN CONDUIT OR CABLE UNDERGROUND.



MAIN: 250A MCB (SE-RATED)

SERVICE: 277/480V, 3-PHASE, 4-WIRE

LOCATION: SEE PLAN

RATING: 25,000 AIC

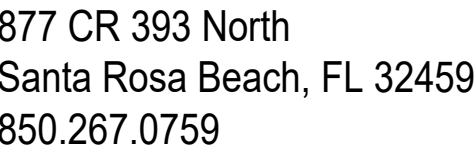
TYPE: NEMA-3R, SURFACE

PROVIDE UL-1449 LISTED TYPE 1-NEMA-4X SURGE

SURGE PROTECTIVE DEVICE AT PANEL (80KA PER MODE, MIN)

| PANEL: HC                   |                  |     |   |           |       |       |       |           |   |             |     |
|-----------------------------|------------------|-----|---|-----------|-------|-------|-------|-----------|---|-------------|-----|
| CKT                         | DESCRIPTION      | BKR | P | KVA       |       |       | LOAD  | BKR       | P | DESCRIPTION | CKT |
|                             |                  |     |   | LOAD      | A     | B     |       |           |   |             |     |
| 1                           | PANEL C          | 60  | 3 | 10.00     | 10.00 |       |       | 20        | 3 | SPARE       | 2   |
| 3                           |                  |     |   |           |       | 10.00 |       |           |   |             | 4   |
| 5                           |                  |     |   | 10.00     |       |       |       |           |   |             | 6   |
| 7                           | SURGE PROTECTOR  | 30  | 3 |           | 0.00  |       | 10.00 | 20        | 3 | SPARE       | 8   |
| 9                           |                  |     |   |           |       | 0.00  |       |           |   |             | 10  |
| 11                          |                  |     |   |           |       |       | 0.00  |           |   |             | 12  |
| 13                          | SPACE            |     |   |           | 0.00  |       |       | 20        | 3 | SPARE       | 14  |
| 15                          | SPACE            |     |   |           |       | 0.00  |       |           |   |             | 16  |
| 17                          | SPACE            |     |   |           |       |       | 0.00  |           |   |             | 18  |
| 19                          | SPACE            |     |   |           | 0.00  |       |       | 20        | 3 | SPARE       | 20  |
| 21                          | SPACE            |     |   |           |       | 0.00  |       |           |   |             | 22  |
| 23                          | SPACE            |     |   |           |       |       | 0.00  |           |   |             | 24  |
| 25                          | FELD 5 - POLE A5 | 20  | 3 | 1.46      | 1.46  |       |       | 20        | 3 | SPARE       | 26  |
| 27                          |                  |     |   | 1.46      |       | 1.46  |       |           |   |             | 28  |
| 29                          |                  |     |   | 1.46      |       |       | 1.46  |           |   |             | 30  |
| 31                          | FELD 5 - POLE A6 | 20  | 3 | 1.46      | 1.46  |       |       | 20        | 3 | SPARE       | 32  |
| 33                          |                  |     |   | 1.46      |       | 1.46  |       |           |   |             | 34  |
| 35                          |                  |     |   | 1.46      |       |       | 1.46  |           |   |             | 36  |
| 37                          | FELD 5 - POLE A7 | 20  | 3 | 1.46      | 1.46  |       |       | 20        | 3 | SPARE       | 38  |
| 39                          |                  |     |   | 1.46      |       | 1.46  |       |           |   |             | 40  |
| 41                          |                  |     |   | 1.46      |       |       | 1.46  |           |   |             | 42  |
| 43                          | FELD 5 - POLE A8 | 20  | 3 | 1.46      | 1.46  |       |       | 20        | 3 | SPARE       | 44  |
| 45                          |                  |     |   | 1.46      |       | 1.46  |       |           |   |             | 46  |
| 47                          |                  |     |   | 1.46      |       |       | 1.46  |           |   |             | 48  |
| 49                          | SPARE            | 20  | 2 |           | 0.00  |       |       | 20        | 3 | SPARE       | 50  |
| 51                          |                  |     |   |           |       | 0.00  |       |           |   |             | 52  |
| 53                          |                  |     |   |           |       |       | 0.00  |           |   |             | 54  |
|                             |                  |     |   | 15.84     | 15.84 | 15.84 |       |           |   |             |     |
| TOTAL CONNECTED LOAD (KVA): |                  |     |   | 47.52 KVA |       |       |       | 57.2 AMPS |   |             |     |

CALL SUNSHINE 811 OR GO ONLINE TO [www.sunshine811.com](http://www.sunshine811.com),  
AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO  
HAVE UTILITIES LOCATED AND MARKED.

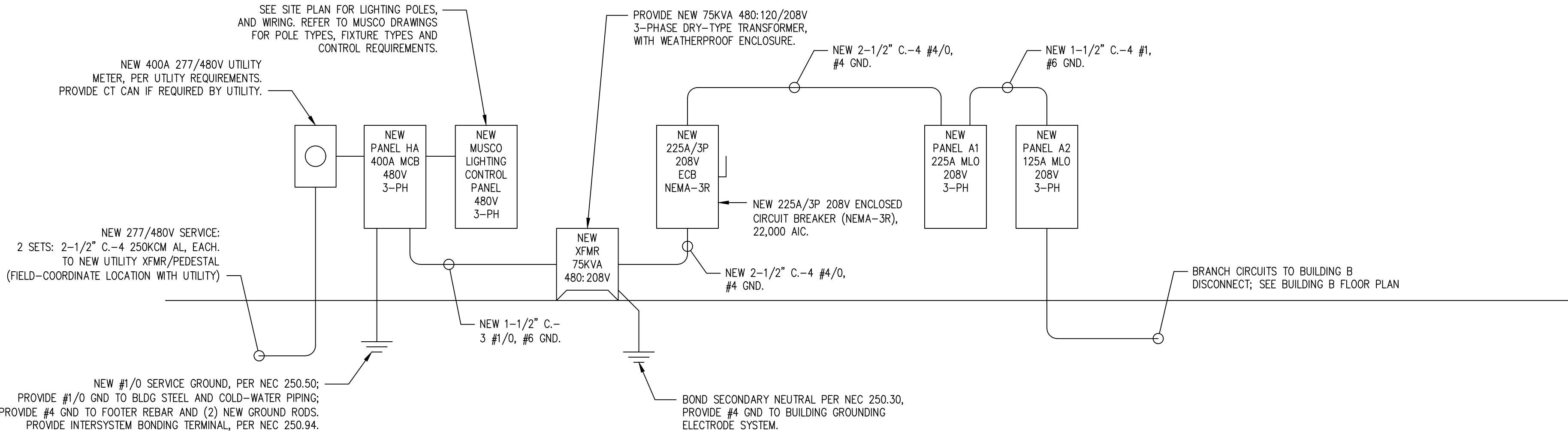


HELEN MCCALL PARK EXPANSION  
PROPOSED BUILDINGS  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

James M. Lamb, State of Florida, Professional Engineer License No. 52688. This item has been digitally signed and sealed by James M. Lamb on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

AS SHOWN

## NO SCALE



## NO SCALE

**APPLIED RESEARCH AND DESIGN, INC.**  
2623 S. BLAIRSTONE ROAD  
TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: jlmamb@ard-eng.com

# E0.2

SHEET NO.



11/10/2025 4:34:52 PM  
D:\PROJECTS\1185 DB HELEN MCCALL PARK\DRAWINGS\HMP\_ELEC\1185.DWG

E

D

C

B

A

PANEL: C

MAIN: 100A MLO  
SERVICE: 120/208V, 3-PHASE, 4-WIRE  
LOCATION: SEE PLAN  
RATING: 10,000 AIC  
TYPE: NEMA-1, SURFACE

PROVIDE UL-1449 LISTED TYPE 1 SURGE SUPPRESSION  
DEVICE AT PANEL (40KA PER MODE, MINIMUM).

| CKT                         |  | DESCRIPTION         | BKR  | P | KVA       |      |           |      | BKR | P | DESCRIPTION        | CKT |
|-----------------------------|--|---------------------|------|---|-----------|------|-----------|------|-----|---|--------------------|-----|
|                             |  |                     | LOAD | A | B         | C    | LOAD      |      |     |   |                    |     |
| 1                           |  | LTS-BLDG C EXTERIOR | 20   | 1 | 0.12      | 1.32 |           | 1.20 | 20  | 1 | HAND DRYER WOMENS  | 2   |
| 3                           |  | LTS/REC-BLDG C      | 20   | 1 | 0.69      | 1.89 |           | 1.20 | 20  | 1 | HAND DRYER MENS    | 4   |
| 5                           |  | REC-BATHROOMS       | 20   | 1 | 0.36      |      | 1.86      | 1.50 | 20  | 2 | WH                 | 6   |
| 7                           |  | TIME CLOCK (TC)     | 20   | 1 | 0.10      | 1.60 |           | 1.50 |     |   |                    | 8   |
| 9                           |  | REC-FIELD #5 / #6   | 20   | 1 | 0.36      | 1.16 |           | 0.80 | 20G | 1 | EWG                | 10  |
| 11                          |  | SPARE               | 20   | 1 |           |      | 0.80      | 0.80 | 20G | 1 | EWG                | 12  |
| 13                          |  | SPARE               | 20   | 1 |           | 0.00 |           |      | 20  | 1 | SPARE              | 14  |
| 15                          |  | SPARE               | 20   | 1 |           | 0.00 |           |      |     |   | SPACE              | 16  |
| 17                          |  | SPARE               | 20   | 1 |           |      | 0.00      |      |     |   | SPACE              | 18  |
| 19                          |  | SPARE               | 20   | 1 |           | 0.00 |           |      |     |   | SPACE              | 20  |
| 21                          |  | SPARE               | 20   | 1 |           |      | 0.00      |      |     |   | SPACE              | 22  |
| 23                          |  | SPACE               |      |   |           |      | 0.00      |      |     |   | SPACE              | 24  |
| 25                          |  | LIFT STATION        | 50   | 3 | 2.54      | 2.54 |           |      | 30  | 3 | SURGE PROT. DEVICE | 26  |
| 27                          |  |                     |      |   | 2.54      | 2.54 |           |      |     |   |                    | 28  |
| 29                          |  |                     |      |   | 2.54      |      | 2.54      |      |     |   |                    | 30  |
|                             |  |                     |      |   | 5.46      | 5.59 | 5.20      |      |     |   |                    |     |
| TOTAL CONNECTED LOAD (KVA): |  |                     |      |   | 16.25 KVA |      | 45.1 AMPS |      |     |   |                    |     |
| 20G INDICATES GFCI BREAKER  |  |                     |      |   |           |      |           |      |     |   |                    |     |

PANEL: A2

MAIN: 125A MLO

SERVICE: 120/208V, 3-PHASE, 4-WIRE

LOCATION: SEE PLAN

RATING: 10,000 AIC

TYPE: NEMA-1, SURFACE

| CKT                         |  | DESCRIPTION           | BKR  | P | KVA  |           |      |           |      | BKR | P | DESCRIPTION          | CKT |
|-----------------------------|--|-----------------------|------|---|------|-----------|------|-----------|------|-----|---|----------------------|-----|
|                             |  |                       |      |   | LOAD | A         | B    | C         | LOAD |     |   |                      |     |
| 1                           |  | REC-PA SYS.           | 20   | 1 | 0.72 | 4.16      |      |           | 3.44 | 35  | 2 | AHU-2                | 2   |
| 3                           |  | REC-FIELD 3 CALL BOX  | 20   | 1 | 0.72 |           | 4.16 |           | 3.44 |     |   |                      | 4   |
| 5                           |  | REC-RESTROOM.ETC.     | 20   | 1 | 0.90 |           |      | 2.60      | 1.70 | 35  | 2 | HP-2                 | 6   |
| 7                           |  | REC-FIELD 4 CALL BOX  | 20   | 1 | 0.72 | 2.42      |      |           | 1.70 |     |   |                      | 8   |
| 9                           |  | REC-ENTRY.STOR.ETC.   | 20   | 1 | 0.72 |           | 2.22 |           | 1.50 | 20  | 2 | WH                   | 10  |
| 11                          |  | REC-FIELD 2 CALL BOX  | 20   | 1 | 0.72 |           |      | 2.22      | 1.50 |     |   |                      | 12  |
| 13                          |  | REC-FIELD 1 CALL BOX  | 20   | 1 | 0.72 | 1.92      |      |           | 1.20 | 20  | 1 | FIELD 1 - SCOREBOARD | 14  |
| 15                          |  | REC-PA SYS.           | 20   | 1 | 0.72 |           | 1.92 |           | 1.20 | 20  | 1 | FIELD 2 - SCOREBOARD | 16  |
| 17                          |  | REC/LTS-BLDG B        | 20   | 1 | 0.44 |           |      | 1.64      | 1.20 | 20  | 1 | FIELD 3 - SCOREBOARD | 18  |
| 19                          |  | LTS-BLDG B EXTERIOR   | 20   | 1 | 0.12 | 1.32      |      |           | 1.20 | 20  | 1 | FIELD 4 - SCOREBOARD | 20  |
| 21                          |  | REC-FIELD 1 PITCHING  | 20   | 1 | 0.36 |           | 0.36 |           |      |     |   | SPACE                | 22  |
| 23                          |  | REC-FIELD 2 PITCHING  | 20   | 1 | 0.36 |           |      | 0.36      |      |     |   | SPACE                | 24  |
| 25                          |  | REC-FIELD 3 PITCHING  | 20   | 1 | 0.36 | 0.36      |      |           |      |     |   | SPACE                | 26  |
| 27                          |  | REC-FIELD 4 PITCHING  | 20   | 1 | 0.36 |           | 0.36 |           |      |     |   | SPACE                | 28  |
| 29                          |  | REC-DRINKING FOUNTAIN | 20 G | 1 | 0.80 |           |      | 0.80      |      |     |   | SPACE                | 30  |
| 31                          |  | REC-DRINKING FOUNTAIN | 20 G | 1 | 0.80 | 0.80      |      |           |      |     |   | SPACE                | 32  |
| 33                          |  | REC-DRINKING FOUNTAIN | 20 G | 1 | 0.80 |           | 0.80 |           |      |     |   | SPACE                | 34  |
| 35                          |  | REC-DRINKING FOUNTAIN | 20 G | 1 | 0.80 |           |      | 0.80      |      |     |   | SPACE                | 36  |
| 37                          |  | SPARE                 | 20 G | 1 |      | 0.00      |      |           |      |     |   | SPACE                | 38  |
| 39                          |  | SPARE                 | 20 G | 1 |      |           | 0.00 |           |      |     |   | SPACE                | 40  |
| 41                          |  | SPARE                 | 20   | 1 |      |           |      | 0.00      |      |     |   | SPACE                | 42  |
| 20 G = 20A GFCIBREAKER      |  |                       |      |   |      | 10.98     | 9.82 | 8.42      |      |     |   |                      |     |
| TOTAL CONNECTED LOAD (KVA): |  |                       |      |   |      | 29.22 KVA |      | 81.2 AMPS |      |     |   |                      |     |

| PANEL: A1                          |                          |      |                                                 |      |           |       |            |       |      |   |                   |     |
|------------------------------------|--------------------------|------|-------------------------------------------------|------|-----------|-------|------------|-------|------|---|-------------------|-----|
| MAIN: 225A MLO                     |                          |      | PROVIDE UL-1449 LISTED TYPE 1 SURGE SUPPRESSION |      |           |       |            |       |      |   |                   |     |
| SERVICE: 120/208V, 3-PHASE, 4-WIRE |                          |      | DEVICE AT PANEL (40KA PER MODE, MINIMUM).       |      |           |       |            |       |      |   |                   |     |
| LOCATION: SEE PLAN                 |                          |      |                                                 |      |           |       |            |       |      |   |                   |     |
| RATING: 10,000 AIC                 |                          |      |                                                 |      |           |       |            |       |      |   |                   |     |
| TYPE: NEMA-1, SURFACE              |                          |      |                                                 |      |           |       |            |       |      |   |                   |     |
|                                    |                          | KVA  |                                                 |      |           |       |            |       |      |   |                   |     |
| CKT                                | DESCRIPTION              | BKR  | P                                               | LOAD | A         | B     | C          | LOAD  | BKR  | P | DESCRIPTION       | CKT |
| 1                                  | LTS-EXTERIOR             | 20   | 1                                               | 0.80 | 0.98      |       |            | 0.18  | 20   | 1 | REC-CONCESSION    | 2   |
| 3                                  | LTS-1ST FLOOR            | 20   | 1                                               | 1.10 |           | 1.90  |            | 0.80  | 20 G | 1 | REC-COKE/ICE      | 4   |
| 5                                  | TIME CLOCK (TC)          | 20   | 1                                               | 0.10 |           |       | 0.46       | 0.36  | 20   | 1 | REC-CONCESSION    | 6   |
| 7                                  | LTS-2ND FLOOR            | 20   | 1                                               | 0.69 | 1.49      |       |            | 0.80  | 20   | 1 | REC-CONCESSION    | 8   |
| 9                                  | REC-CONCESSION           | 20   | 1                                               | 0.90 |           | 1.70  |            | 0.80  | 20   | 1 | REC-CONCESSION    | 10  |
| 11                                 | REC-COMMS                | 20   | 1                                               | 0.36 |           |       | 1.16       | 0.80  | 20   | 1 | REC-CONCESSION    | 12  |
| 13                                 | IRRIGATION CONTROLS      | 20   | 1                                               | 0.20 | 1.00      |       |            | 0.80  | 20   | 1 | REC-CONCESSION    | 14  |
| 15                                 | REC-RESTROOMS            | 20   | 1                                               | 0.54 |           | 3.98  |            | 3.44  | 35   | 2 | AHU-1             | 16  |
| 17                                 | HAND DRYER MEN'S         | 20   | 1                                               | 1.20 |           |       | 4.64       | 3.44  |      |   |                   | 18  |
| 19                                 | HAND DRYER WOMEN'S       | 20   | 1                                               | 1.20 | 2.90      |       |            | 1.70  | 35   | 2 | HP-1              | 20  |
| 21                                 | REC-CHASE, STORAGE, ETC. | 20   | 1                                               | 0.72 |           | 2.42  |            | 1.70  |      |   |                   | 22  |
| 23                                 | REC-REF/FREEZER          | 20 G | 1                                               | 1.00 |           |       | 2.20       | 1.20  | 20   | 1 | ADA LIFT          | 24  |
| 25                                 | REC-REF/FREEZER          | 20 G | 1                                               | 1.00 | 1.00      |       |            |       | 20   | 2 | SPARE             | 26  |
| 27                                 | REC-ICE MACH.            | 20 G | 1                                               | 1.00 |           | 1.00  |            |       |      |   |                   | 28  |
| 29                                 | SPARE                    | 20   | 1                                               |      |           |       | 0.00       |       |      |   | SPACE             | 30  |
| 31                                 | LIFT STATION             | 50   | 3                                               | 2.54 | 13.52     |       |            | 10.98 | 125  | 3 | PANEL A2          | 32  |
| 33                                 |                          |      |                                                 | 2.54 |           | 12.36 |            | 9.82  |      |   |                   | 34  |
| 35                                 |                          |      |                                                 | 2.54 |           |       | 10.96      | 8.42  |      |   |                   | 36  |
| 37                                 | PANEL D (BLDG. D)        | 60   | 3                                               | 1.90 | 1.90      |       |            |       | 30   | 3 | SURGE PROT DEVICE | 38  |
| 39                                 |                          |      |                                                 | 1.74 |           | 1.74  |            |       |      |   |                   | 40  |
| 41                                 |                          |      |                                                 | 1.74 |           |       | 1.74       |       |      |   |                   | 42  |
| 20 G = 20A GFCI BREAKER            |                          |      |                                                 |      | 22.79     | 25.10 | 21.16      |       |      |   |                   |     |
| TOTAL CONNECTED LOAD (KVA):        |                          |      |                                                 |      | 69.05 KVA |       | 191.8 AMPS |       |      |   |                   |     |



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Santa Rosa Beach, FL 32459  
850.267.0759

HELEN MCCALL PARK EXPANSION  
PROPOSED BUILDINGS  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

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APPROVED BY JML

CHECKED BY JML

DATE OCTOBER 3, 2025

TITLE

PANELBORAD  
SCHEDULES

PROJECT NO. 50128135

ARD PROJECT #1185  
APPLIED RESEARCH AND DESIGN, INC.  
2623 S. BLAIRSTONE ROAD  
TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: jlamb@ard-eng.com

E0.3

SHEET NO.



HELEN MCCALL PARK EXPANSION PHASE 1  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
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| DATE | OCTOBER 3, 2025 |
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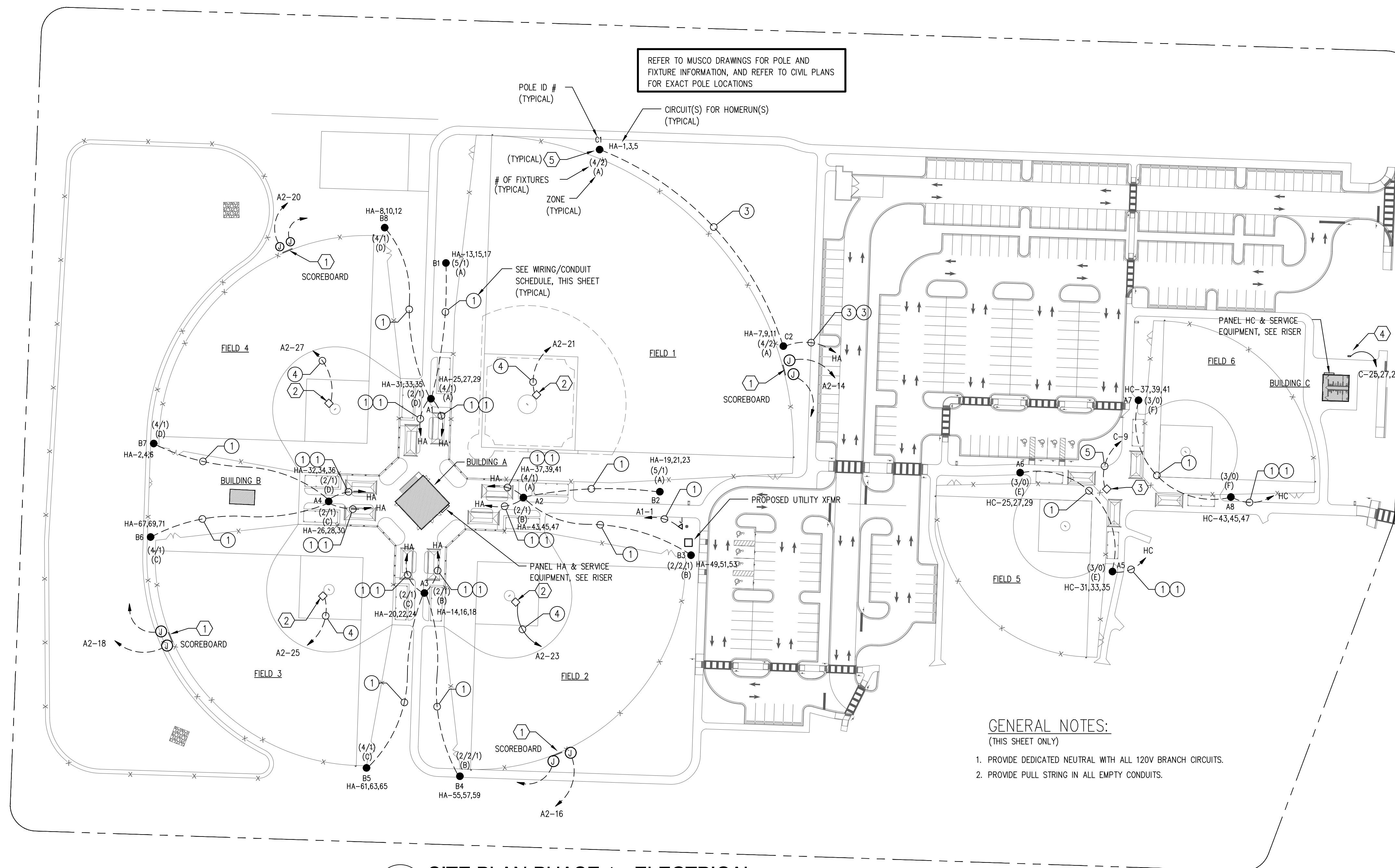
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## SITE PLAN - ELECTRICAL

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|-------------|---------|
| PROJECT NO. | 5012813 |
|-------------|---------|

# E1.0

SHEET NO.



## SITE PLAN PHASE 1 - ELECTRICAL

SCALE: 1" = 60' - 0"

WORK NOTES:

(THIS SHEET ONLY)

1. FOR SCOREBOARD; 120V. PROVIDE FUSH IN-GRADE JUNCTION BOX (12"x12"x12"), (1) FOR DATA & (1) FOR POWER. FOR DATA PROVIDE 17C TO CALL BOX (ASSOCIATED WITH FIELD #) IN BUILDING A FOUR CONDUCTORS. VERIFY EXACT TERMINATION POINT WITH VENDOR. FOR POWER, PROVIDE 1/4"-C-2 #4, #8 GND (DERATED FOR VOLTAGE DROP) FROM PANEL TO JUNCTION BOX (WA 20A/1P SNAP SWITCH AT 2ND FLOOR BLDG A). USE 3/4" C-2 #8, #8 GND FOR CONNECTION TO SCOREBOARD. PROVIDE 120V GFCI WEATHERPROOF RECEPTACLE MOUNTED TO SCOREBOARD STRUCTURE (NOT SHOWN) FOR MAINTENANCE. CONNECT TO SCOREBOARD CIRCUIT.
2. WEATHERPROOF LOCKABLE NEMA-6P/J68 OUTDOOR GRADE BOX (FUSH COVER) WITH QUAD 120V/20A RECEPTABLES; LEGRAND WIREMOL#XB814/XB814C520C2GY OR APPROVED EQUAL. TO BE INSTALLED BETWEEN PITCHER'S MOUND. PROVIDE GRAVEL BED BELOW BOX, FOR DRAINAGE; INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. WEATHERPROOF LOCKABLE NEMA-6P/J68 OUTDOOR GRADE BOX (FUSH COVER) WITH QUAD 120V/20A RECEPTABLES; LEGRAND WIREMOL#XB814/XB814C520C2GY OR APPROVED EQUAL. TO BE INSTALLED BETWEEN FIELD #5 & #6. PROVIDE GRAVEL BED BELOW BOX, FOR DRAINAGE; INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. LIFT STATION (208V/3PH); PROVIDE 3/4" C-4 #8, #10 GND, FROM LIFT STATION CONTROL PANEL TO DISTRIBUTION PANEL INDICATED. SEE CIVIL PLANS FOR LIFT STATION DETAILS. NOTE: LIFT STATION WET WELL IS CLASS 1 DIVISION 1 LOCATION; PROVIDE EXPLOSIONPROOF SEALS ON ALL RACEWAYS ENTERING WET WELL.
5. SPORTS LIGHTING POLE: PROVIDE FIELD WIRING TO DRIVERS AS INDICATED. PROVIDE NEW 12" x 18" x 12" ANSI TIER-15 POLYMER IN-GROUND JUNCTION BOX, WITH 60-2 DOWN CONDUIT, WITHIN 10' OF POLE. HOME-RUN CIRCUITS SHOWN ARE TO BE WIRED VIA CONTACTORS IN LIGHTING CONTROL CABINET, TO BE INSTALLED ADJACENT TO PANEL INDICATED. (TYPICAL)

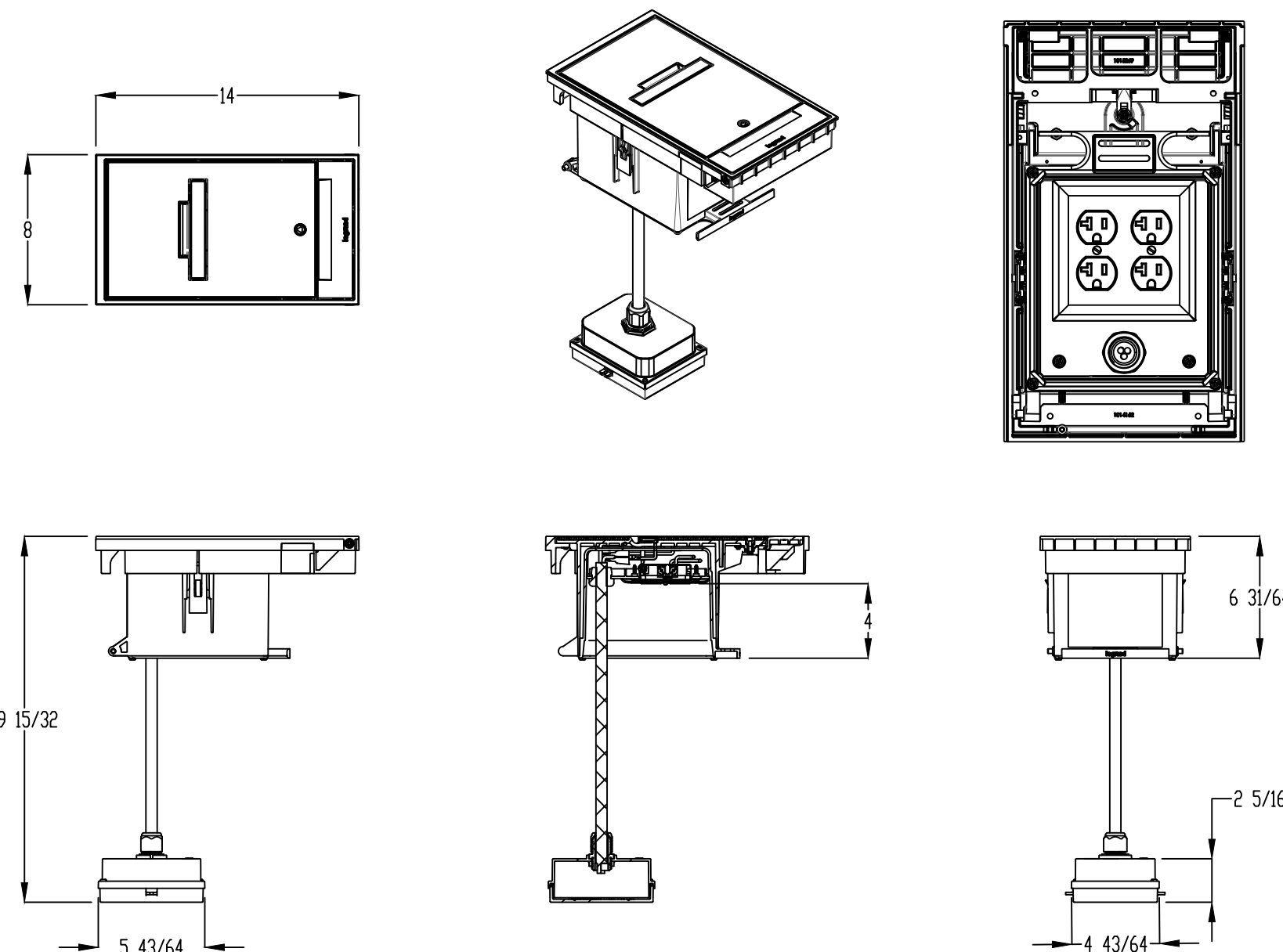
PROVIDE WARNING RIBBON PER NEC 300.5 D 3; UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES ABOVE THE UNDERGROUND INSTALLATION.

CALL SUNSHINE 811 OR GO ONLINE TO [www.sunshine811.com](http://www.sunshine811.com),  
AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING TO  
HAVE UTILITIES LOCATED AND MARKED.

## WIRING/CONDUIT SCHEDULE

| FEEDER TAG | CONDUIT AND WIRE SIZE |
|------------|-----------------------|
| ①          | 1" C-4 #10, #10 GND   |
| ②          | 1" C-4 #8, #10 GND    |
| ③          | 1" C-4 #6, #8 GND     |
| ④          | 1" C-2 #10, #10 GND   |
| ⑤          | 1" C-2 #8, #10 GND    |

SOME FEEDER TAGS SHOWN IN SCHEDULE  
MAY NOT BE USED ON THIS PHASE



## OUTDOOR GRADE BOX DETAIL

SITE LIGHTING NOTES:

2. SEE BUILDING PLANS FOR REQUIRED BUILDING PERMITTER LIGHTING.
3. OUTDOOR SPORTS LIGHTING (INCLUDING LIGHTING, POLES, AND CONTROLS CABINETS) ARE TO BE SUPPLIED BY THE OWNER UNDER SEPARATE CONTRACT WITH MUSCO LIGHTING.
4. MUSCO LIGHTING (UNDER SEPARATE CONTRACT WITH THE OWNER) WILL PROVIDE AND ERECT SPORTS LIGHTING POLES AND WILL PROVIDE ALL REQUIRED ENGINEERING FOR SUCH.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING OUTDOOR CONTROLS CABINETS, INSTALLING FIELD WIRING FROM PANELS TO CONTROL CABINETS, INSTALLING FIELD WIRING FROM CONTROL CABINETS TO DRIVER CABINETS AT POLES (AS SHOWN ON THESE PLANS).
6. MUSCO LIGHTING (UNDER SEPARATE CONTRACT WITH THE OWNER) SHALL BE RESPONSIBLE FOR STARTUP AND COMMISSIONING OF SPORTS LIGHTING; CONTRACTOR SHALL PROVIDE ELECTRICIAN ON-SITE FOR ONE DAY TO SUPPORT STARTUP.
7. WITHIN 30 DAYS OF COMMENCEMENT, CONTRACTOR SHALL SCHEDULE AND ARRANGE AN ON-LINE CONFERENCE (USING TEAMS, ZOOM, OR SIMILAR CONFERRING SYSTEM) WITH THE REPRESENTATIVES FROM THE GENERAL CONTRACTOR, ELECTRICAL SUBCONTRACTOR, ENGINEER, OWNER'S REPRESENTATIVE, AND MUSCO LIGHTING TO COORDINATE SCHEDULE AND REQUIREMENTS FOR EQUIPMENT DELIVERY AND INSTALLATION.
8. PARKING AT AREA LIGHTS (INCLUDING POLES, CONDUIT AND WIRING) IS TO BE PROVIDED BY UTILITY (CHELCO). CONTRACTOR IS TO COORDINATE SCHEDULE WITH CHELCO TO ALLOW INSTALLATION OF REQUIRED UNDERGROUND CONDUITS PRIOR TO FINAL COMPLETION, INSTALLATION OF BASE, AND PAVING.

GENERAL NOTES:

(THIS SHEET ONLY)

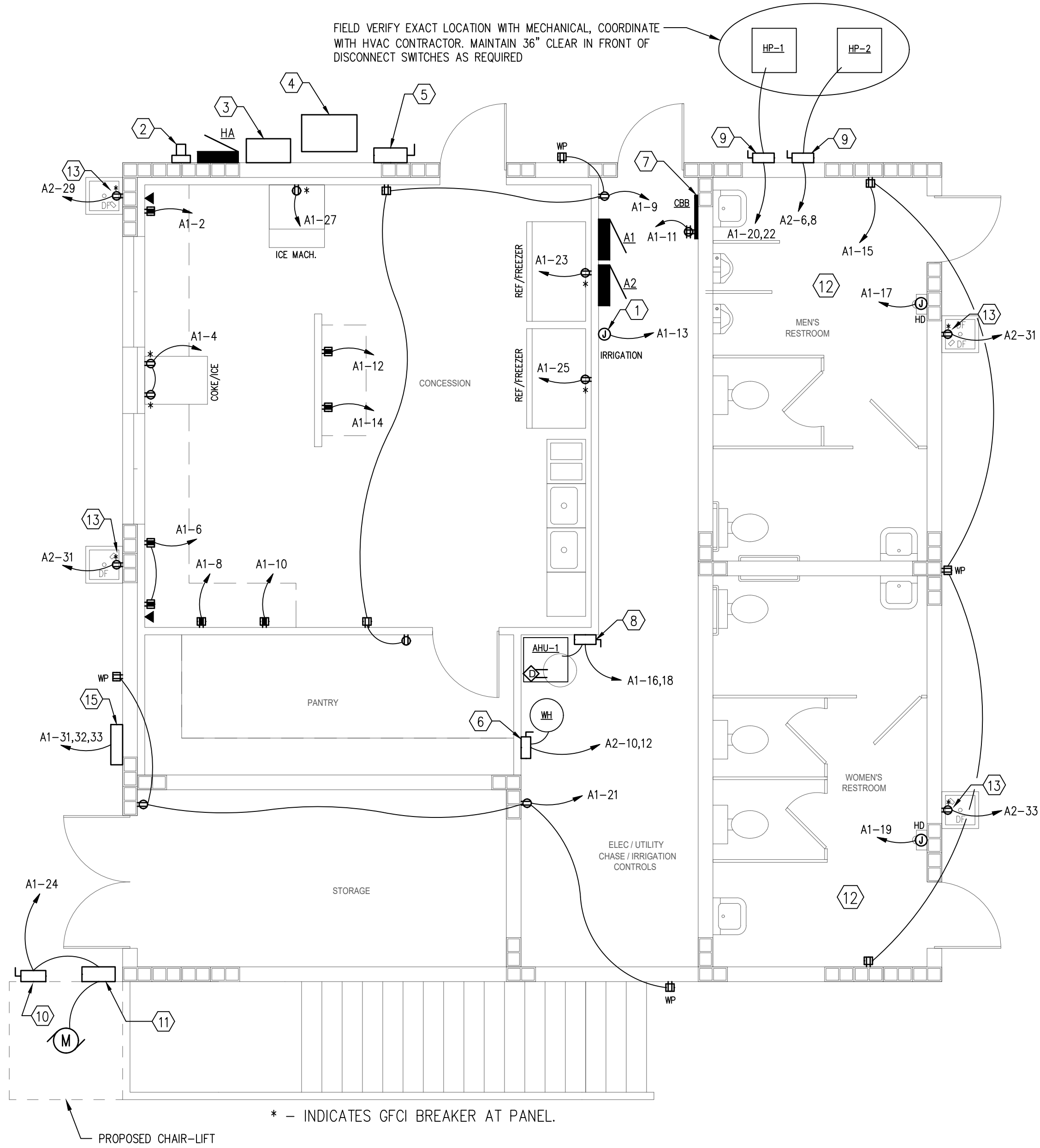
1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS
2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

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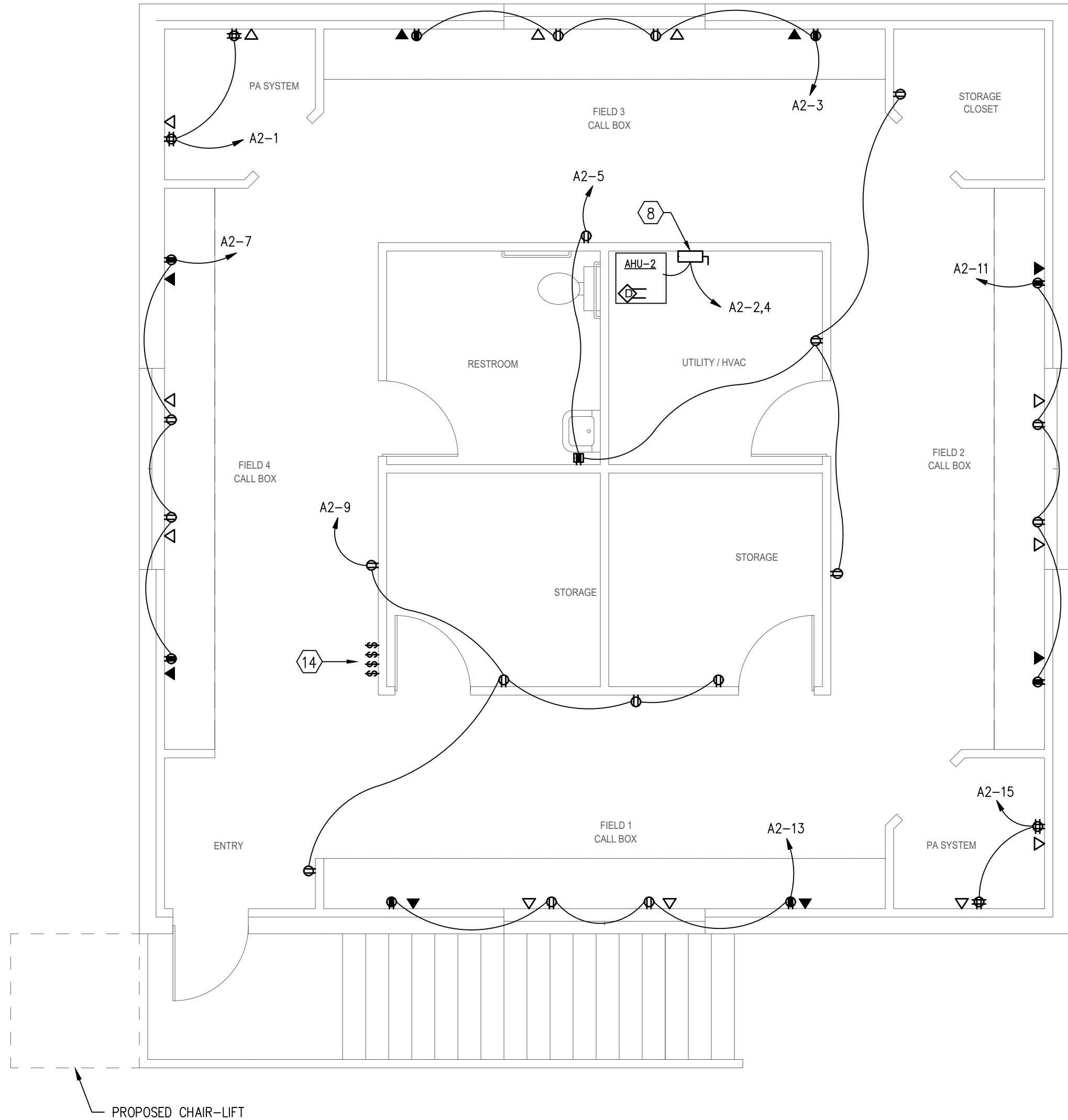
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## BUILDING A FIRST FLOOR PLAN - POWER & SYSTEMS

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

0 2' 4'



## BUILDING A SECOND FLOOR PLAN - POWER & SYSTEMS

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

0 2' 4'

### GENERAL NOTES: (THIS SHEET ONLY)

1. PROVIDE DEDICATED NEUTRAL WITH ALL 120V BRANCH CIRCUITS.
2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

### WORK NOTES: (THIS SHEET ONLY)

- 1 PROVIDE 120V CONNECTION FOR IRRIGATION, COORDINATE EXACT REQUIREMENTS WITH IRRIGATION CONTRACTOR.
- 2 UTILITY METERING EQUIPMENT; COORDINATE EXACT REQUIREMENTS WITH UTILITY AND REFER TO RISER DIAGRAM.
- 3 MUSCO SPORTS LIGHTING CONTROL PANEL (IN WEATHERPROOF ENCLOSURE). COORDINATE WITH SPORTS LIGHTING EQUIPMENT SUPPLIER AND INSTALLER. PROVIDE 3/4" C-2 #12, #12 GND, TO PANEL A2 FOR CONTROL POWER.
- 4 NEW DRY-TYPE TRANSFORMER, WITH WEATHERPROOF ENCLOSURE. REFER TO RISER DIAGRAM, PROVIDE HOUSEKEEPING PAD.
- 5 NEW 200A/3P ENCLOSED CIRCUIT BREAKER, IN NEMA-3R ENCLOSURE. REFER TO RISER DIAGRAM.
- 6 WH: 3KW, 240V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C-2 #10, #10 GND, TO PANEL.
- 7 PROVIDE 2'x 2'x 3/4"PLYWOOD BACKBOARD AS INDICATED. PAINT WITH 2 COATS OF FIRE RETARDANT PAINT. PROVIDE COPPER GROUND BAR CONNECTED TO BUILDING SYSTEM GROUND WITH #6 AWG.
- 8 AHU-1 & 2: 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C-2 #8, #10 GND, TO PANEL. PROVIDE A 20A SNAP SWITCH AT OR NEAR THE UNIT FOR CONDENSATE PUMP (NOT SHOWN), IF REQUIRED. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT AND HARD WIRE TO PUMP. IF NO CONDENSATE PUMP PROVIDED, PROVIDE SIMPLEX RECEPTACLE AT UNIT.
- 9 HP-1 & 2: 208V, 1PH, PROVIDE NEW 60A/2P 240V N.F. NEMA-3R SAFETY SWITCH, WITH 3/4" C-2 #8, #10 GND, TO PANEL.
- 10 LIFT DISCONNECT: 30A/2P NF NEMA-3R SAFETY SWITCH, LOCKABLE ON/OFF; TO BE LOCATED AT LIFT POWER SUPPLY UNIT.
- 11 LIFT POWER SUPPLY UNIT
- 12 RACEWAY SERVING WALL-MOUNTED FIXTURES AND DEVICES IN RESTROOMS AND STORAGE ROOM SHALL BE CONCEALED IN BLOCK WALLS.
- 13 PROVIDE DUPLEX RECEPTACLE TO SERVE DRINKING FOUNTAIN; FIELD-COORDINATE EXACT LOCATION/ELEVATION WITH PLUMBER. CONCEAL RACEWAY IN BLOCK WALL. (TYPICAL)
- 14 PROVIDE (4) SNAP SWITCHES TO CONTROL EACH OF (4) FIELD SCOREBOARDS; LABEL PER FIELD.
- 15 LIFT STATION (208V/3PH): PROVIDE 3/4" C-4 #8, #10 GND, FROM LIFT STATION CONTROL PANEL TO DISTRIBUTION PANEL INDICATED. SEE CIVIL PLANS FOR LIFT STATION DETAILS. NOTE: LIFT STATION WET WELL IS CLASS 1 DIVISION 1 LOCATION; PROVIDE EXPLOSIONPROOF SEALS ON ALL RACEWAYS ENTERING WET WELL.



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HELEN MCCALL PARK EXPANSION  
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APPROVED BY \_\_\_\_\_ JML  
CHECKED BY \_\_\_\_\_ JML  
DATE \_\_\_\_\_ OCTOBER 3, 2025

TITLE

BUILDING A  
FLOOR PLANS -  
POWER & SYSTEMS

PROJECT NO. 50128135

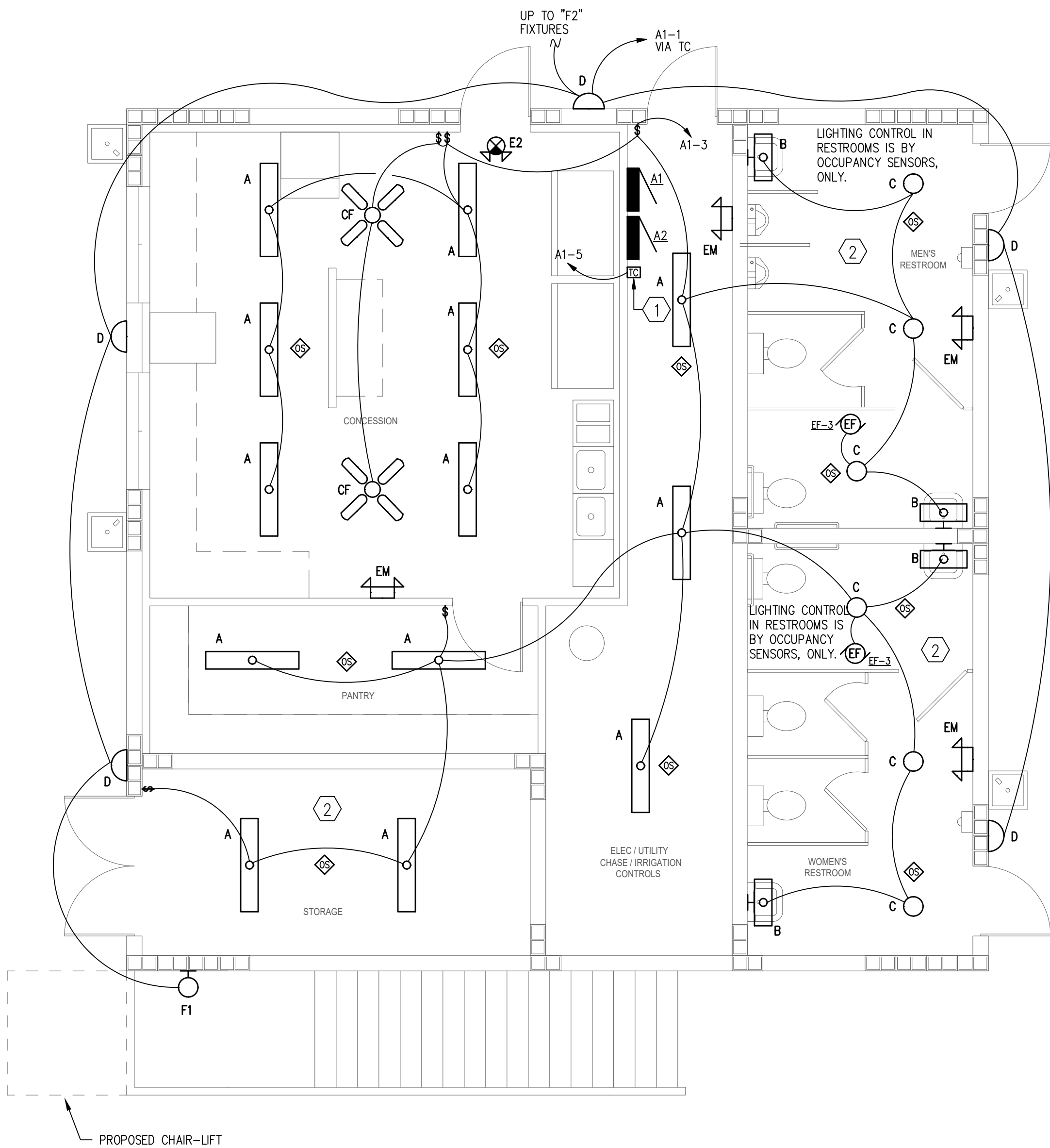
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ARD PROJECT #1185  
APPLIED RESEARCH AND DESIGN, INC.  
2623 S. BLAIRSTONE ROAD  
TALLAHASSEE, FL 32301  
FL CA#8948  
JAMES M. LAMB, PE#52688  
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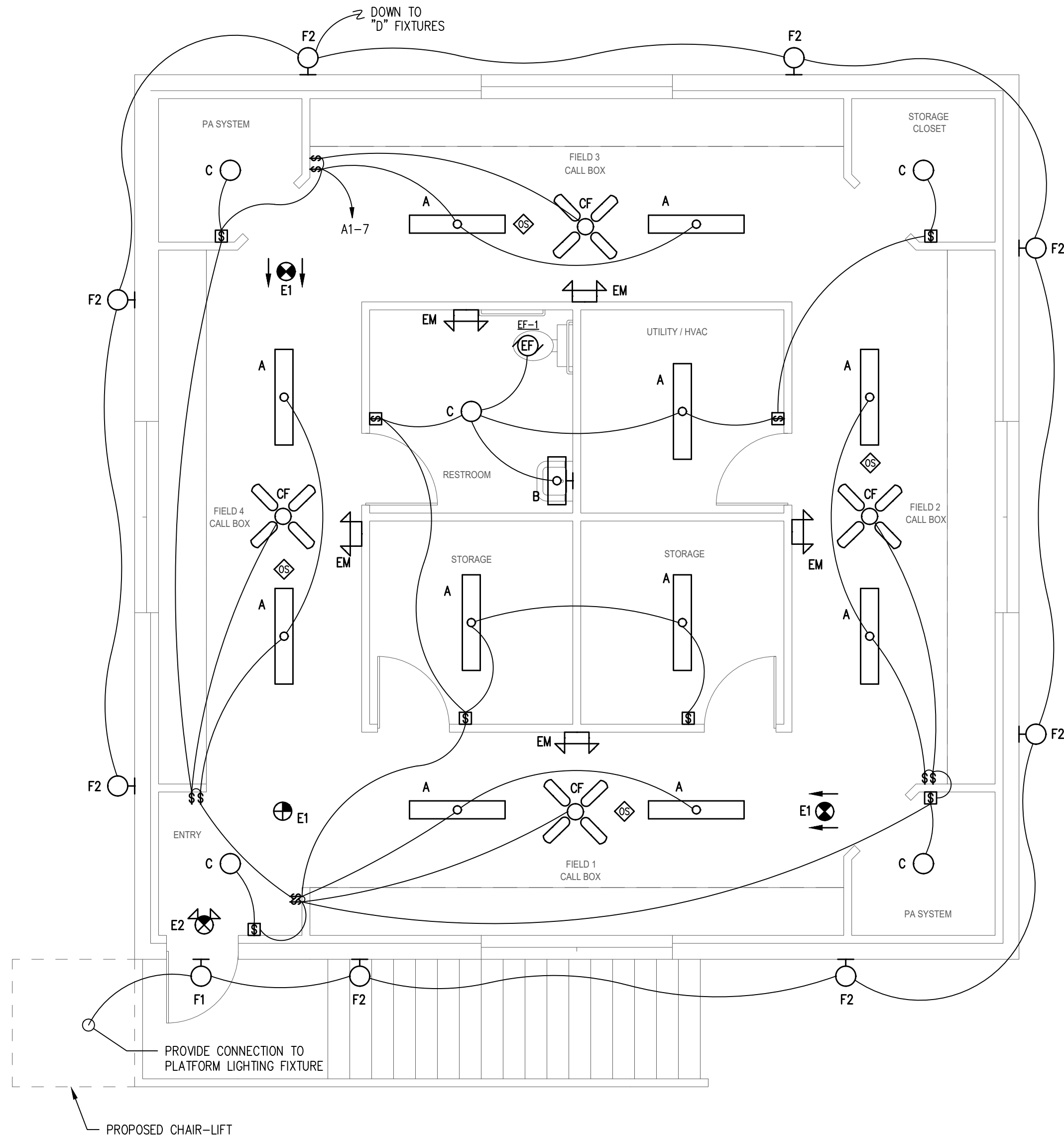
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**BUILDING A  
FIRST FLOOR PLAN - LIGHTING**

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

0 2' 4'



**BUILDING A  
SECOND FLOOR PLAN - LIGHTING**

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

0 2' 4'

**GENERAL NOTES:**  
(THIS SHEET ONLY)

1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
2. ALL WALL MOUNTED OCCUPANCY SENSORS ARE MANUAL ON/AUTOMATIC OFF.
3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

**WORK NOTES:**  
(THIS SHEET ONLY)

1. 2 CHANNEL 24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.
2. RACEWAY SERVING WALL-MOUNTED FIXTURES AND DEVICES IN RESTROOMS AND STORAGE ROOM SHALL BE CONCEALED IN BLOCK WALLS.



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APPROVED BY \_\_\_\_\_ JML  
CHECKED BY \_\_\_\_\_ JML  
DATE \_\_\_\_\_ OCTOBER 3, 2025

TITLE

**BUILDING A  
FLOOR PLANS -  
LIGHTING**

PROJECT NO. \_\_\_\_\_ 50128135

**E1.2**

SHEET NO.

ARD PROJECT #1185  
APPLIED RESEARCH AND DESIGN, INC.  
2623 S. BLAIRSTONE ROAD  
TALLAHASSEE, FL 32301  
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CHECKED BY JM

DATE OCTOBER 3, 2025

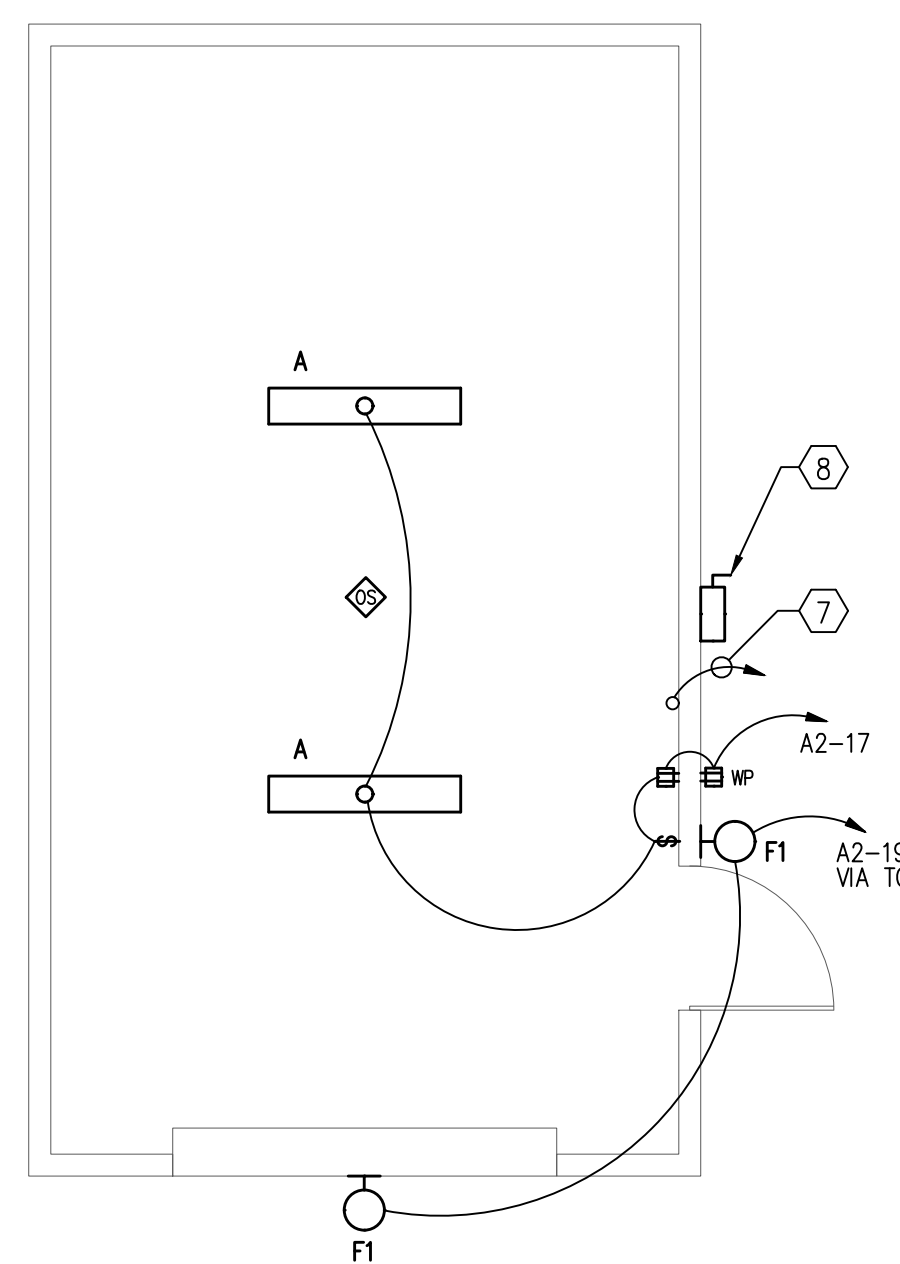
TITLE

## BUILDINGS B & C FLOOR PLANS - ELECTRICAL

|             |          |
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| PROJECT NO. | 50128135 |
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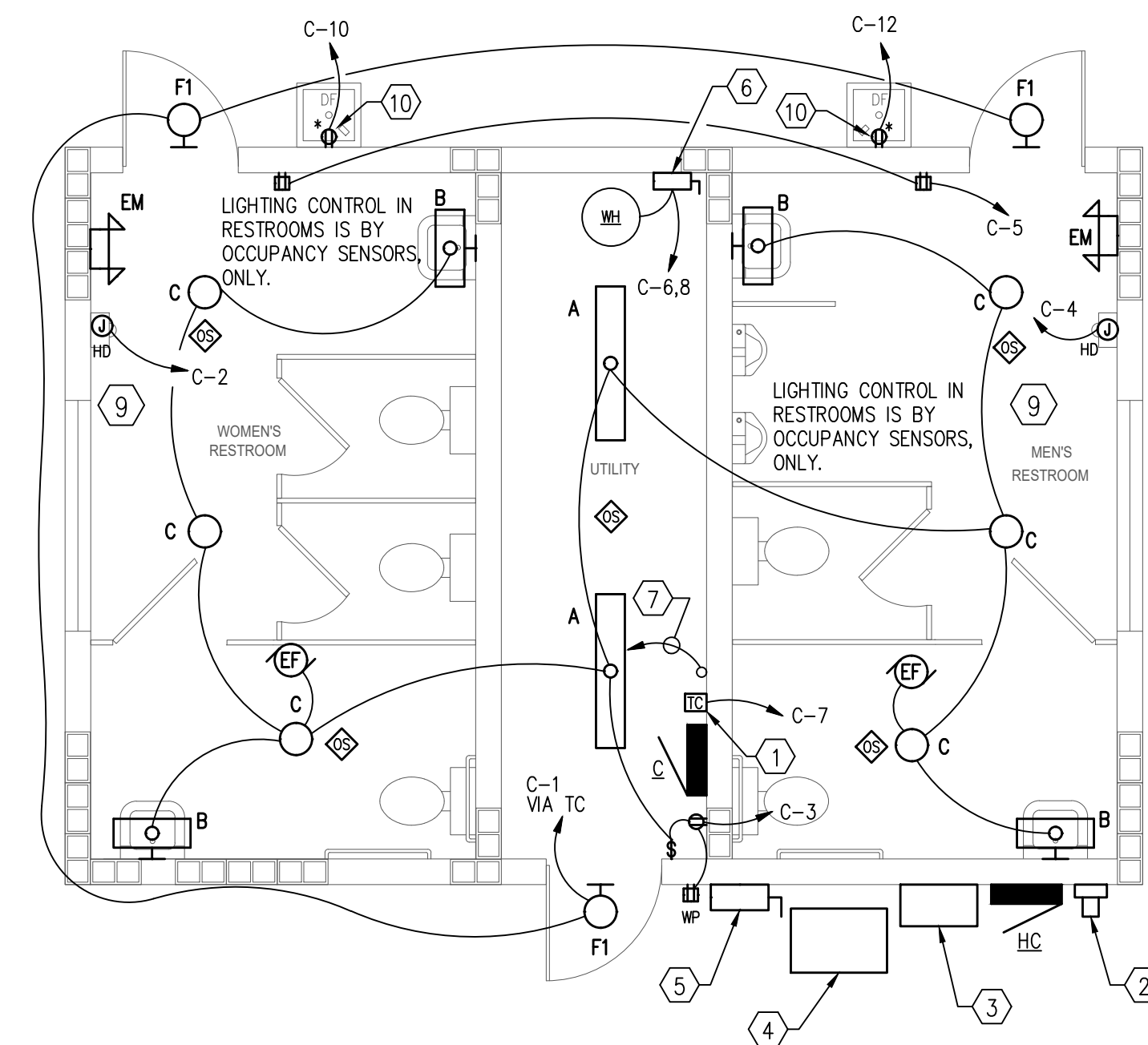
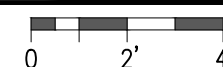
SHEET NO.



## BUILDING B

### FLOOR PLAN - ELECTRICAL

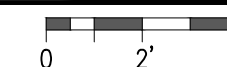
SCALE: 1/4" = 1' - 0"



## BUILDING C

### FLOOR PLAN - ELECTRICAL

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



WORK NOTES:

(THIS SHEET ONLY)

- 1 2 CHANNEL 1 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY YORK OR APPROVED EQUIV. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.
- 2 UTILITY METERING EQUIPMENT; COORDINATE EXACT REQUIREMENTS WITH UTILITY AND REFER TO RISER DIAGRAM.
- 3 MUSCO SPORTS LIGHTING CONTROL PANEL (IN WEATHERPROOF ENCLOSURE), COORDINATE WITH SPORT LIGHTING EQUIPMENT SUPPLIER AND INSTALLER. PROVIDE 3/4" C-2 #12, #12 GND, TO PANEL C-2 FOR 120V CONTROL POWER.
- 4 NEW DRY-TYPE TRANSFORMER, WITH WEATHERPROOF ENCLOSURE. REFER TO RISER DIAGRAM, PROVIDE HOUSEKEEPING PAD.
- 5 NEW 200A/3P ENCLOSED CIRCUIT BREAKER, IN NEMA-3R ENCLOSURE. REFER TO RISER DIAGRAM.
- 6 WH; 3KW, 240V, 1PH, PROVIDE NEW 30A/2P 240V N.F. NEMA-1 SAFETY SWITCH, WITH 3/4" C-2 #12, #12 GND, TO PANEL.
- 7 PROVIDE 1" SPARE CONDUIT TO PANEL A (IN BUILDING A) WITH PULL STRING FOR FUTURE USE, STUB-UP AND CAP.
- 8 PROVIDE 30A/3P N.F. NEMA-3R SAFETY SWITCH, LABEL "BUILDING DISCONNECT"; WIRE A2-17, A2-19 BRANCH CIRCUITS THRU SAFETY SWITCH; PROVIDE 1" C-2 #6, 2 #8 NEU, #6 GND, TO BUILDING A PANEL A2. BOND EQUIPMENT GROUND AT DISCONNECT TO BUILDING FOOTER REBAR AND NEW GROUND ROD WITH #6 GND.
- 9 RACEWAY SERVING WALL-MOUNTED FIXTURES AND DEVICES SHALL BE CONCEALED IN BLOCK WALLS.
- 10 PROVIDE DUPLEX RECEPTACLE TO SERVE DRINKING FOUNTAIN; FIELD-COORDINATE EXACT LOCATION/ELEVATION WITH PLUMBER. CONCEAL RACEWAY IN BLOCK WALL. (TYPICAL)

GENERAL NOTES:

(THIS SHEET ONLY)

1. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS.
2. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
3. PROVIDE ALL LOW VOLTAGE CONTROL CABLING FOR LIGHTING, PLENUM RATED.
4. PROVIDE SEPARATE NEUTRAL FOR EACH 120V BRANCH CIRCUIT.

ARD PROJECT #1185

APPLIED RESEARCH AND DESIGN, INC.

2623 S. BLAIRSTONE ROAD

TALLAHASSEE, FL 3230

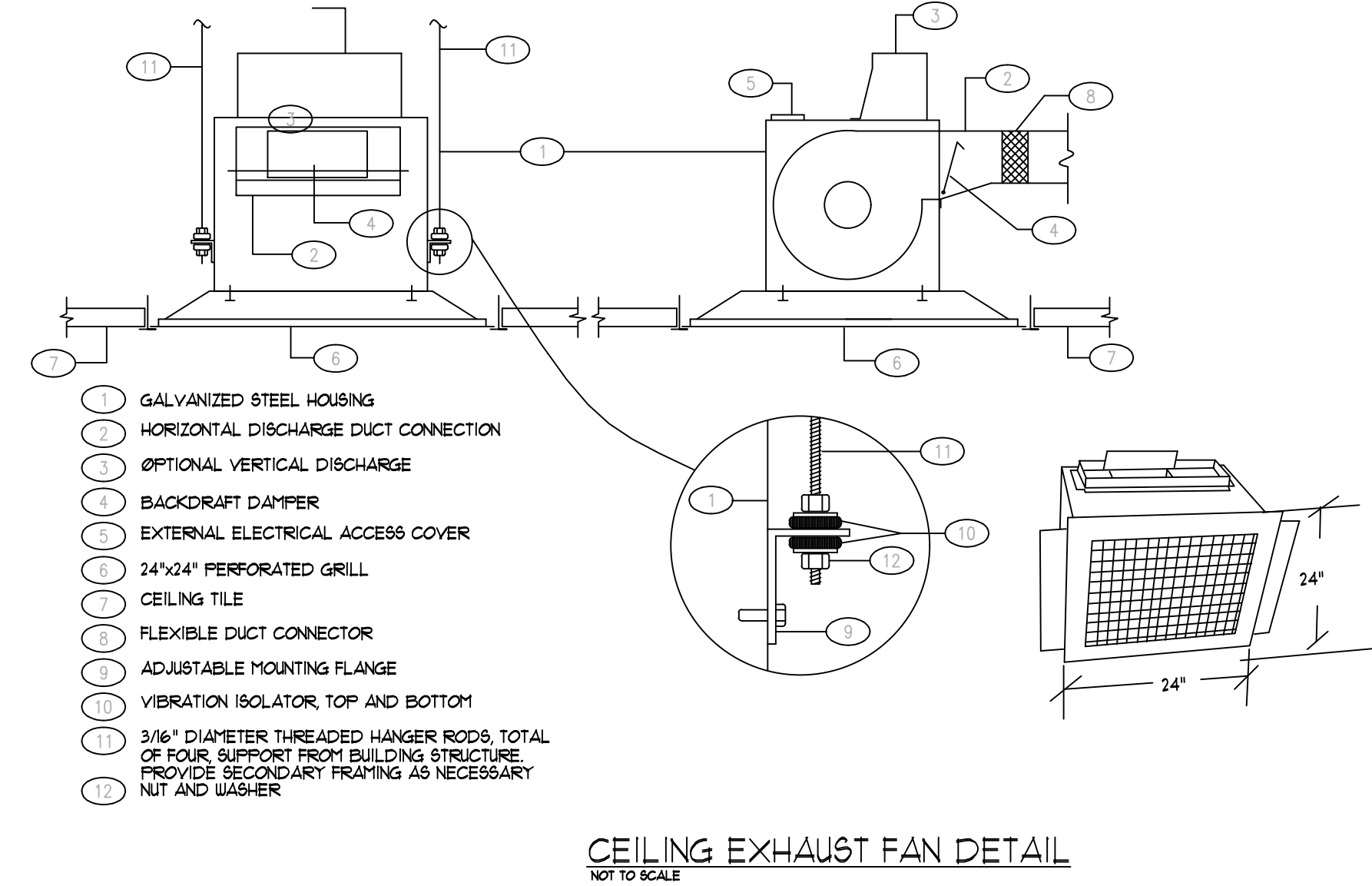
FL CA#8948  
JAMES M. LAMB, DE#52688

Tel: (850) 668-6324 -- E-mail: [jlamb@ard-eng.com](mailto:jlamb@ard-eng.com)



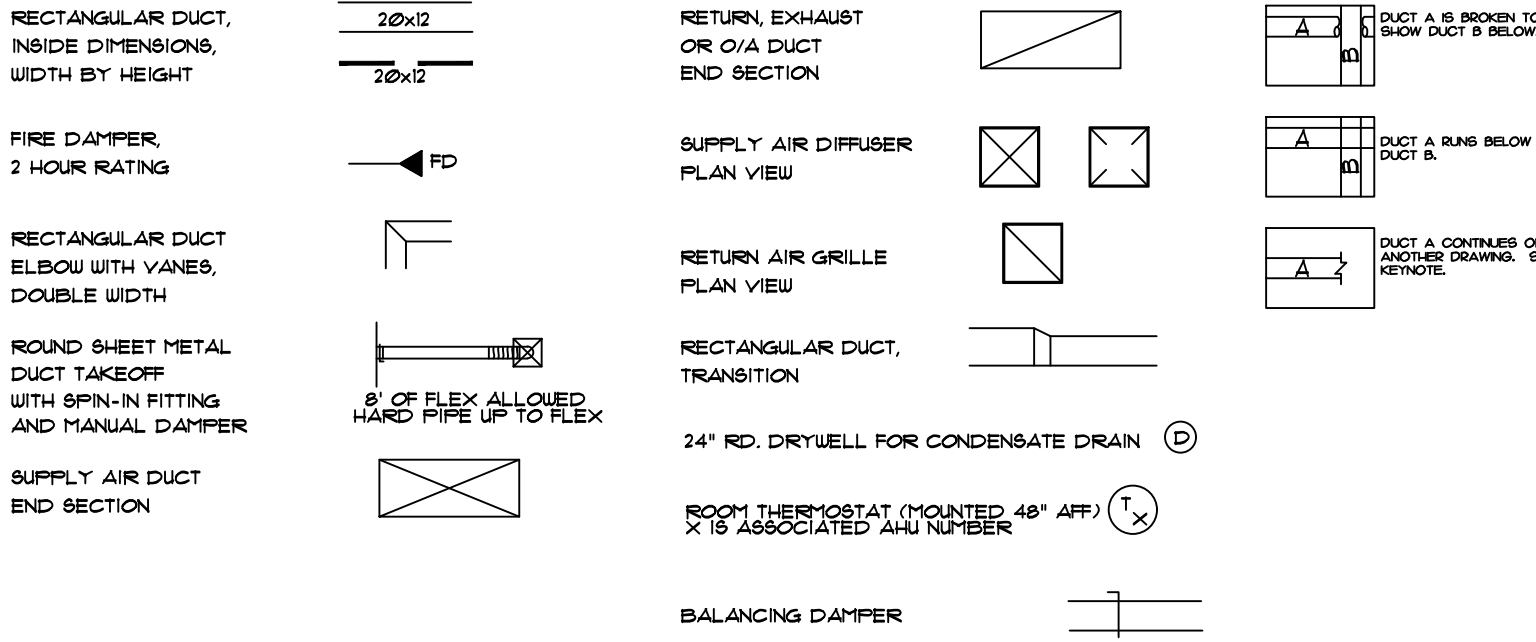
| EXHAUST FAN SCHEDULE       |        |           |           |           |
|----------------------------|--------|-----------|-----------|-----------|
| UNIT DESIGNATION           |        | EF-1      | EF-2      | EF-3      |
| AIR FLOW                   | CFM    | 70        | 140       | 280       |
| STATIC PRESSURE            | IN. WC | 0.5       | 0.5       | 0.5       |
| FAN MOTOR POWER            | HP     | 1/20W     | 1/30W     | 1/35W     |
| FAN SPEED                  | RPM    | 132       | 1050      | 1050      |
| DRIVE                      |        | DIRECT    | DIRECT    | DIRECT    |
| SONES                      | SONES  | 1.5       | 3.5       | 3.5       |
| WEIGHT                     | LBS    | 10        | 10        | 10        |
| ELECTRICAL CHARACTERISTICS | V/PH   | 115/1     | 115/1     | 115/1     |
| MANUFACTURER               |        | GREENHECK | GREENHECK | GREENHECK |
| MODEL NUMBER               |        | GP-B10    | GP-B150   | GP-B290   |

NOTES:  
1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS.  
2. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS.  
3. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.  
4. PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST.  
5. EF-4 TO HAVE TIME CLOCK AND OVER RIDE SWITCH IN RR. OVER RIDE TO RUN FOR 15 MINUTES BEFORE SHUTTING OFF.



CEILING EXHAUST FAN DETAIL  
NOT TO SCALE

### MECHANICAL LEGEND



### CEILING DIFFUSER SCHEDULE

| SYMBOL | AIR QUANTITY | NECK SIZE | ROUND DUCT SIZE | FACE DIMENSION HARD CEILING | LAY-IN CEILING |
|--------|--------------|-----------|-----------------|-----------------------------|----------------|
|        | 0 - 60       | 6"        | 8"              | 12 X 12                     | 24 X 24        |
|        | 65 - 150     | 8"        | 8"              | 16 X 16                     | 24 X 24        |
|        | 155 - 195    | 8"        | 10"             | 16 X 16                     | 24 X 24        |
|        | 200 - 250    | 10"       | 10"             | 20 X 20                     | 24 X 24        |
|        | 255 - 335    | 10"       | 12"             | 20 X 20                     | 24 X 24        |
|        | 400 - 550    | 12"       | 12"             | 24 X 24                     | 24 X 24        |
|        | 555 - 595    | 12"       | 14"             | 24 X 24                     | 24 X 24        |
|        | 600 - 145    | 14"       | 14"             | 24 X 24                     | 24 X 24        |
|        | 150 - 1200   | 16"       | 16"             | 30 X 30                     | 30 X 30        |

### CEILING RETURN AIR OR EXHAUST REGISTER SCHEDULE

| SYMBOL | CFM         | SIZE    | ROUND SIZE * |
|--------|-------------|---------|--------------|
|        | 0 - 75      | 8 X 6   | 10 X 6       |
|        | 80 - 105    | 10 X 6  | 12 X 6       |
|        | 110 - 175   | 10 X 10 | 12 X 8       |
|        | 180 - 270   | 12 X 12 | 14 X 8       |
|        | 275 - 325   | 18 X 12 | 20 X 8       |
|        | 330 - 800   | 24 X 24 | 26 X 10      |
|        | 805 - 1200  | 24 X 24 | 26 X 12      |
|        | 1205 - 1500 | 24 X 24 | 26 X 14      |

\* THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS.  
1. ALL DIFFUSERS TO BE TRUE TYPE TMS OR EQUAL.  
2. RETURN GRILLES TO BE TRUE SOKO TYPE.

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, PIPING, AND AUTOMATIC TEMPERATURE CONTROL WORK.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS ARE ESSENTIALLY DIAGRAMATIC IN NATURE, THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING. WITH THE WORK, THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS, AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK, OR PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE THE SOLE INTERPRETER OF THE DRAWINGS.

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY AND SHALL BE THE PRODUCTS OF REPUTABLE MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED FROM THE WEATHER AT ALL TIMES DURING CONSTRUCTION TO PREVENT UNNECESSARY CORROSION AND ROTTING. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY SKILLED AND COMPETENT MECHANICS. ANY WORKER CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.

4. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES ETC., WHETHER FEDERAL, STATE OR LOCAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS AND PAYING ANY FEES REQUIRED IN ORDER TO PROCEED WITH THE WORK.

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND THE OWNER'S PROGRESS MEETINGS AS SCHEDULED BY THE ARCHITECT OR THE OWNER. FAILURE TO MAKE REFERENCES IN THE SPECIFICATIONS TO ANY ITEMS OF THE WORK SHOWN BY THE DRAWINGS AND NECESSARY TO THE COMPLETION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND PERFORM THE WORK OF SUCH ITEMS, IN A MANNER COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR WHICH DETAILED SPECIFICATIONS ARE INCLUDED. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET FORTH ALL WORK AND THE DETAILED DESCRIPTION IS ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE LOCATION OF THE SEVERAL PARTS OF THE WORK. COLLECTIVELY, THEY SHALL GOVERN AND CONTROL THE SCOPE, CHARACTER AND DESIGN OF THE WORK, AND ANY ITEM CALLED FOR IN ANY ONE OF THE DOCUMENTS SHALL BE AS THOUGH REQUIRED IN ALL.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND SHALL MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY AND WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING SYSTEMS SHALL BE TESTED.

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT, AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE

## MECHANICAL GENERAL NOTES

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE INSTALLATION OF SUCH EQUIPMENT. IF WORK, AS LAID OUT, INDICATED OR SPECIFIED IS RECOGNIZED TO BE CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS OR OMISSIONS NOTED ABOVE, ALL CHANGES REQUIRED TO COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

10. THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

1. FLORIDA BUILDING CODE, 2013 8TH EDITION.  
2. FLORIDA PLUMBING CODE, 2013 8TH EDITION.  
3. FLORIDA MECHANICAL CODE, 2013 8TH EDITION.  
4. NFPA 70, NATIONAL ELECTRICAL CODE  
5. NFPA 101, LIFE SAFETY CODE  
6. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS  
7. NFPA 91, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS  
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

THE FOREGOING RULES, STANDARDS, REGULATIONS, SPECIFICATIONS, RECOMMENDATIONS AND REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIALS, AND WORKMANSHIP WHICH ARE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS.

11. THE INTERIOR FACE OF DUCTWORK HOUSING SUPPLY, RETURN, OR EXHAUST AIR DIFFUSERS, REGISTERS OR GRILLES SHALL BE PAINTED "FLAT-BLACK" SO WHEN VIEWED FROM BELOW AND ABOVE NOTHING BEYOND SURFACE OF AIR DEVICE IS VISIBLE.

12. THERMOSTAT/SENSOR WIRING TO BE RUN INSIDE WALLS/COLUMNS OR IN ATTIC SPACE. THE USE OF WIREMOLD OR EXTERNAL RACEWAY SHALL BE APPROVED BY THE ENGINEER.

13. A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUPPLIED BY AN INDEPENDENT CERTIFIED TEST AND BALANCE AGENCY TO THE ENGINEER IN WRITING PER AABC TEST AND BALANCE REPORT MANUAL (LATEST EDITION) PRIOR TO JOB ACCEPTANCE BY OWNER. THE REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

14. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSIDRED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.

15. ALL POWER WIRING, RELAYS, PANELS, TRANSFORMERS, DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, PANELS SENSORS (OR THERMOSTATS) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

16. ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE OR RECTANGULAR TAKEOFFS WITH SPIN-IN VOLUME DAMPERS ON ROUND OR OVAL TAKE-OFFS. SPIRAL DUCT TAKE-OFFS HAVE NO EXTRACTORS. INSTALL FLEXIBLE DUCT CONNECTORS AT ALL FANS AND AIR HANDLING UNITS.

17. FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED EIGHT FEET IN LENGTH. REMAINING BRANCH LINE SHALL BE GALVANIZED METAL WITH 2" EXTERNAL INSULATION. FLEXIBLE DUCTS SHALL HAVE FOIL BACKING (FSK TYPE).

18. ANY CONDENSATION ON SURFACES OF HVAC EQUIPMENT, DUCTWORK OR PIPING WILL BE CORRECTED BY THE CONTRACTOR. WRAP WITH INSULATING TAPE OR EXTERNAL INSULATION HAVING A VAPOR BARRIER.

19. INSULATION OUTSIDE OF THE BUILDING SHALL BE WRAPPED WITH ALUMINUM. INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION HAVING VAPOR RETARDING JACKET (FSK TYPE). INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50.

20. ROOM SENSORS OR THERMOSTATS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

21. THERMOSTATS TO BE 1 DAY PROGRAMMABLE WITH DIGITAL DISPLAY. PROVIDE AND INSTALL A LOCK BOX FOR ALL THERMOSTATS.

22. SMOKE DETECTORS (SEE DRAWINGS) SHALL BE IONIZATION TYPE AS APPROVED BY THE ENGINEER. COORDINATE THE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL VERIFY THAT DETECTORS ARE COMPATIBLE WITH FIRE ALARM SYSTEMS. IF UNIT SELECTION IS NOT COMPATIBLE THE CONTRACTOR SHALL PURCHASE AND INSTALL PROPER UNIT TO INSURE LIFE SAFETY PROTECTION. SMOKE DETECTORS SHALL AUTOMATICALLY SOUND AUDIBLE ALARM AND TURNOFF FANS.

23. FURNISH AND INSTALL ACCESS DOORS (18"x18" MINIMUM) IN ALL DRYWALL CEILINGS FOR ACCESS TO MECHANICAL EQUIPMENT.

24. COORDINATE THE INSTALLATION OF ALL AUX. COND. DRAINS LOCATED IN WALLS WITH THE GENERAL CONTRACTOR. COORDINATE THE INSTALLATION OF ALL MAIN COND. DRAINS LOCATED IN WALLS AND CHASES WITH THE PLUMBING CONTRACTOR.

25. THE CONTRACTOR SHALL NOT FABRICATE ANY AIR DISTRIBUTION DUCTWORK UNTIL IT HAS BEEN VERIFIED THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR THE INSTALLATION OF HVAC SYSTEMS CONSIDERING REQUIREMENTS FOR PIPING, LIGHT FIXTURES, CEILING SYSTEMS, FLOOR SYSTEMS, FOUNDATIONS, AND STRUCTURES. IF A CONFLICT ARISES CONTACT THE ENGINEER FOR PERMISSION TO REROUTE SYSTEM. ALL DUCTWORK SHALL BE ROUTED AT THE EXPENSE OF THE CONTRACTOR.

26. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING BY THE ENGINEER. APPROVAL WILL NOT BE GIVEN UNLESS THE ENGINEER IS SATISFIED THAT THE PROPOSED SYSTEMS ARE SUPERIOR IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

27. APPROVALS OF EQUIPMENT OR SYSTEMS OTHER THAN THAT SHOWN MUST BE WITHIN TEN (10) WORKING DAYS PRIOR TO BID DATE.

28. ALL DUCT AND PIPE SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS.

29. ALL AIR DISTRIBUTION DUCTWORK SHALL BE AIR TIGHT AND FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FAN UNITS OR FINISHED FLOOR/CEILING SYSTEM. DUCTWORK SHALL BE SEALED WITH AIR DUCT SEALER PER SMACNA STANDARDS AND UL RATING.

30. EQUIPMENT, DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS, OTHER AIR DISTRIBUTIONS EQUIPMENT AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

(A) ASHRAE  
(B) SECCI  
(C) SMACNA  
(D) NFPA  
(E) AMCA STANDARD HANDBOOK 99  
(F) AIR DIFFUSION COUNCIL TEST CODE 1062R3  
(G) SECCI STANDARD MECHANICAL CODE  
(H) ANSI  
(J) ASME  
(K) AGA  
(L) UL FIRE RESISTANCE DIRECTORY

31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION. PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

32. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) OR NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).

33. REFRIGERANT PIPING SHALL BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LIQUID, VAPOR HORIZONTAL AND VAPOR RISERS.

34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT.

35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE MELTING ABOVE 1020 DEGREES F. NO ACID FLUX IS TO BE USED ON ANY JOINT.

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF SEAMS WITH APPROVED CLIP.

37. ALL WORK AND MATERIALS SHALL BE WARRANTED (PARTS AND LABOR) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. AN ADDITIONAL WARRANTY (PARTS ONLY) SHALL INCLUDE 4 YEARS ON ALL COMPRESSORS, WITH NINE YEARS ON ALL HEAT EXCHANGERS.

38. CONTRACTOR SHALL SUPPLY, TO THE ENGINEER, 6 SETS OF SUBMITTALS ON THE FOLLOWING ITEMS:

A. AIR DISTRIBUTION (DIFFUSER, GRILLE AND REGISTERS)  
B. HEATING/AIR CONDITIONING EQUIPMENT  
C. DAMPERS  
D. FANS  
E. INSULATION MATERIALS  
F. CONTROLS  
G. PIPING

NOTE: THESE ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONTRACTOR ORDERING.

39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK.

40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS. MANUFACTURE TO SIZE REFRIGERANT PIPING.

41. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

CD  
A

4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL CORP #AA-3314  
FL PE COA #28625

a complete engineering & construction management company  
**FCM**  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
E-MAIL: edmund@fcmanet.com  
FAX: (850) 654-2000  
John H. Edmund, P.E. FL #68840 FI Certificate of Authorization #6419

| DISTRIBUTION | DATE       |
|--------------|------------|
| BID/PERMIT   | 10/03/2025 |

PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

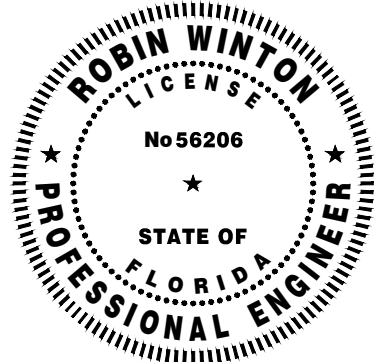
SHEET TITLE:  
MECHANICAL  
NOTES/SCHEDULES  
SHEET SCALE: SEE PLAN

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: RPW  
CHECKED BY: RPW

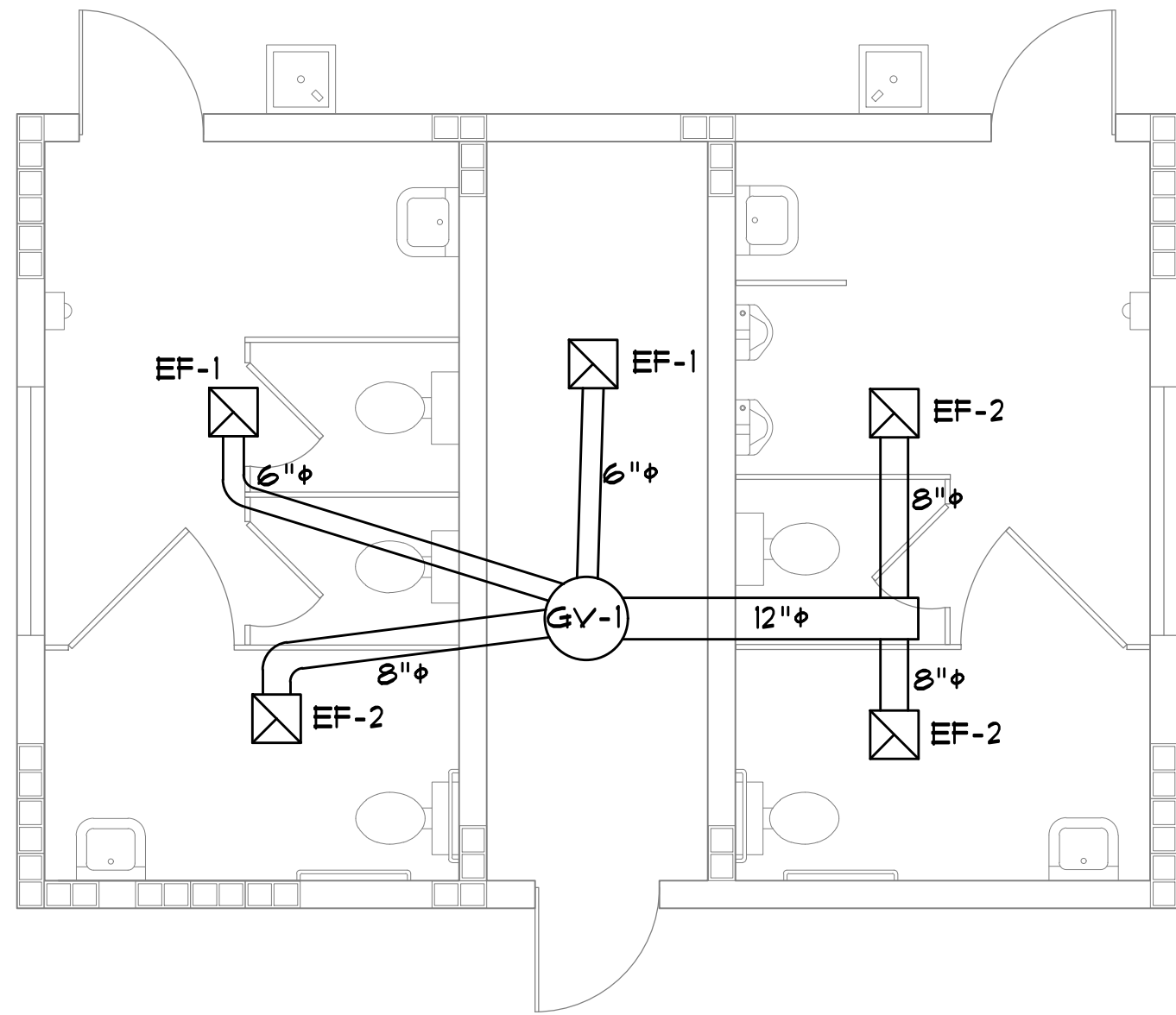
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WINTON ENGINEERING, PA  
ROBIN WINTON, PE  
2207 WOODBINE DR  
TALLAHASSEE, FL 32309  
850 567-2019  
FL # 56206

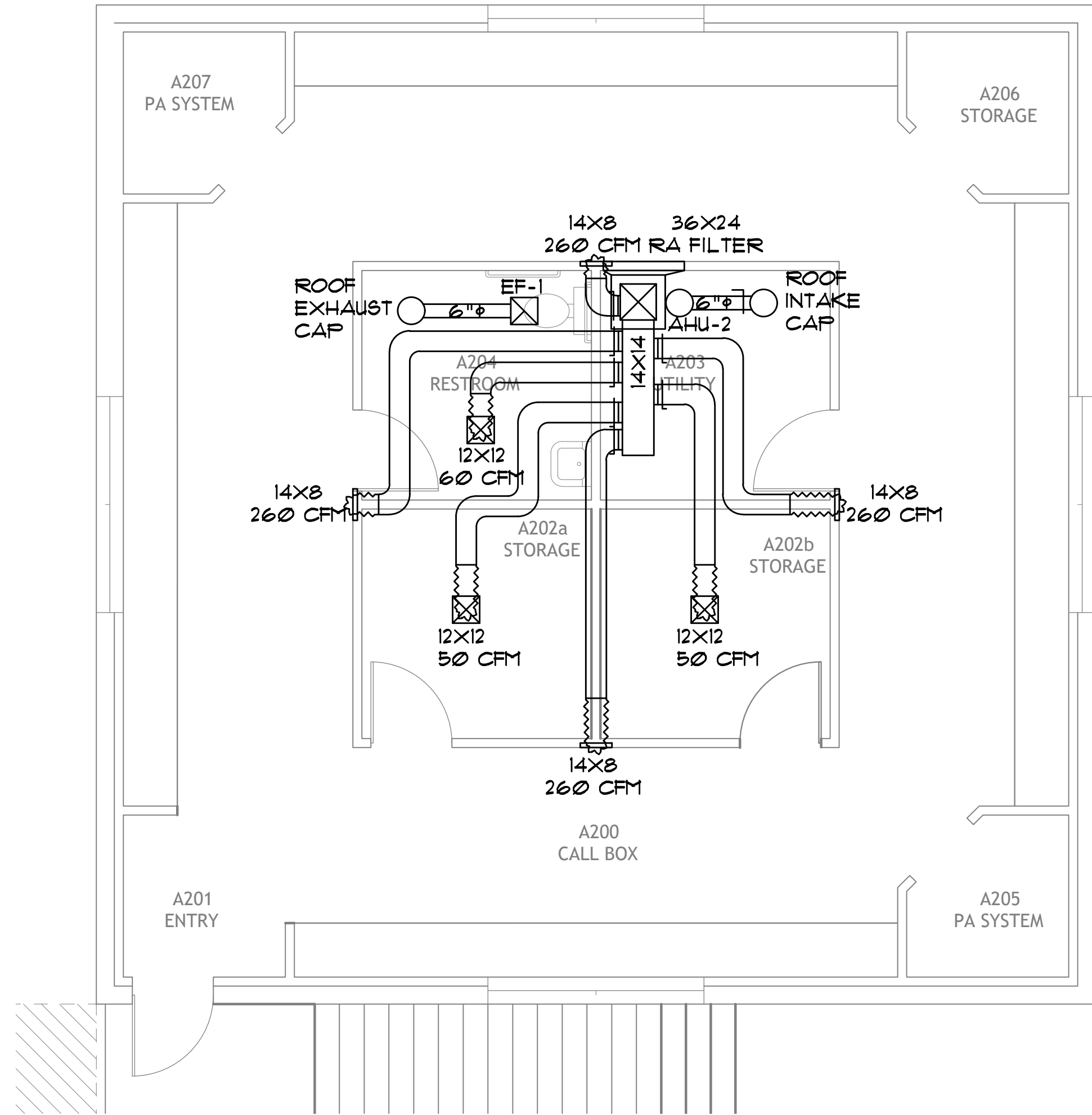
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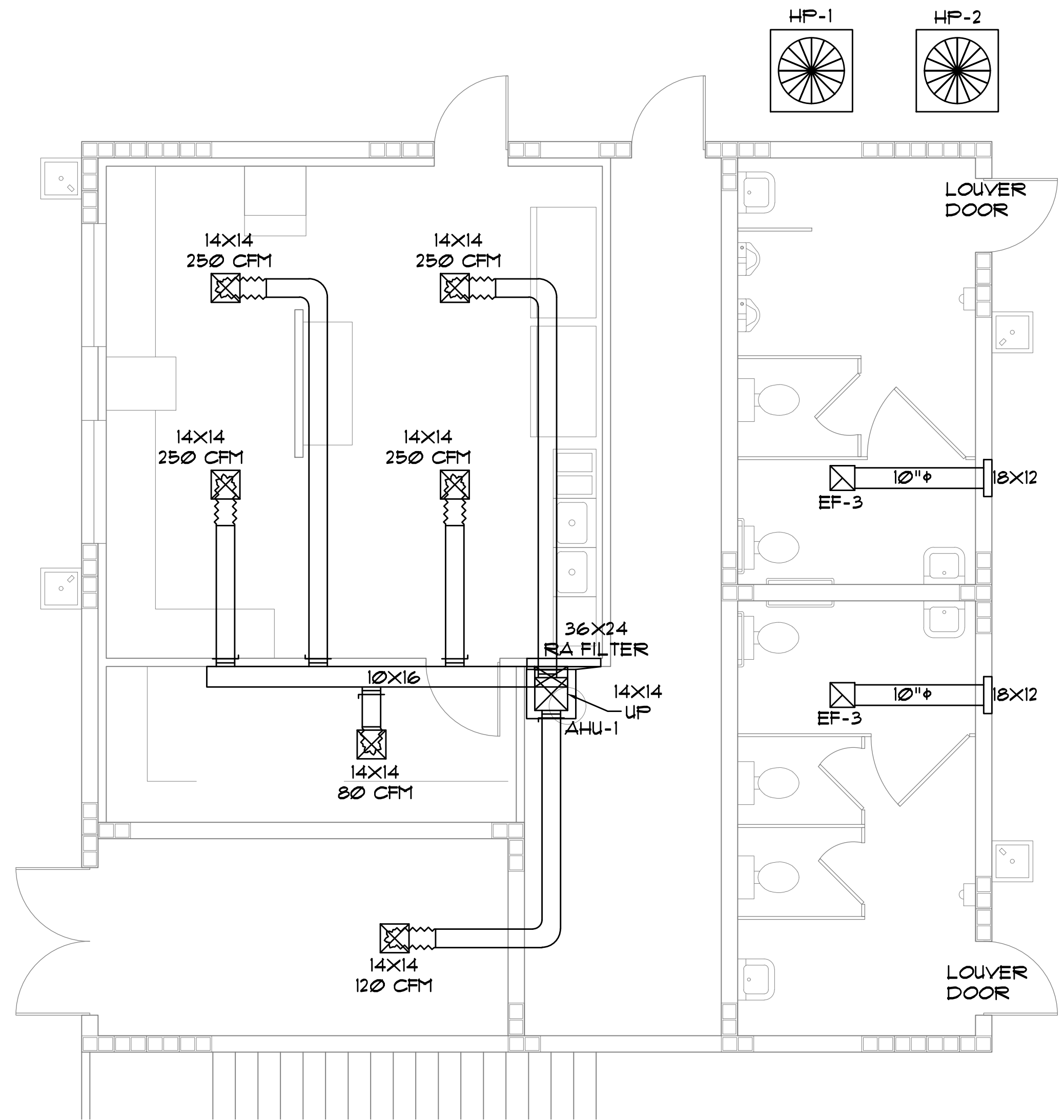




MECHANICAL PLAN 2ND FLOOR - BLDG C  
SCALE: 1/4" = 1'0"

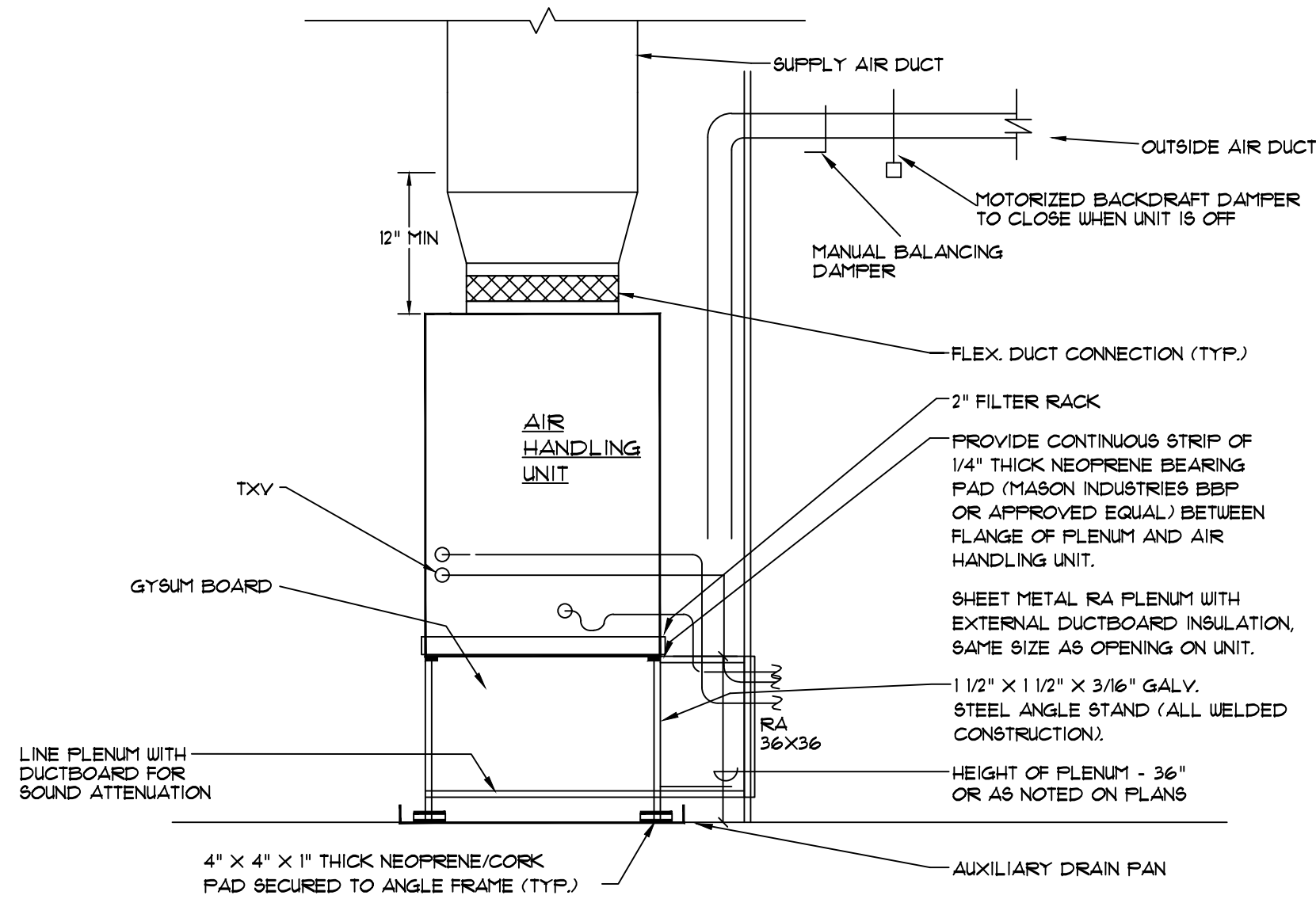
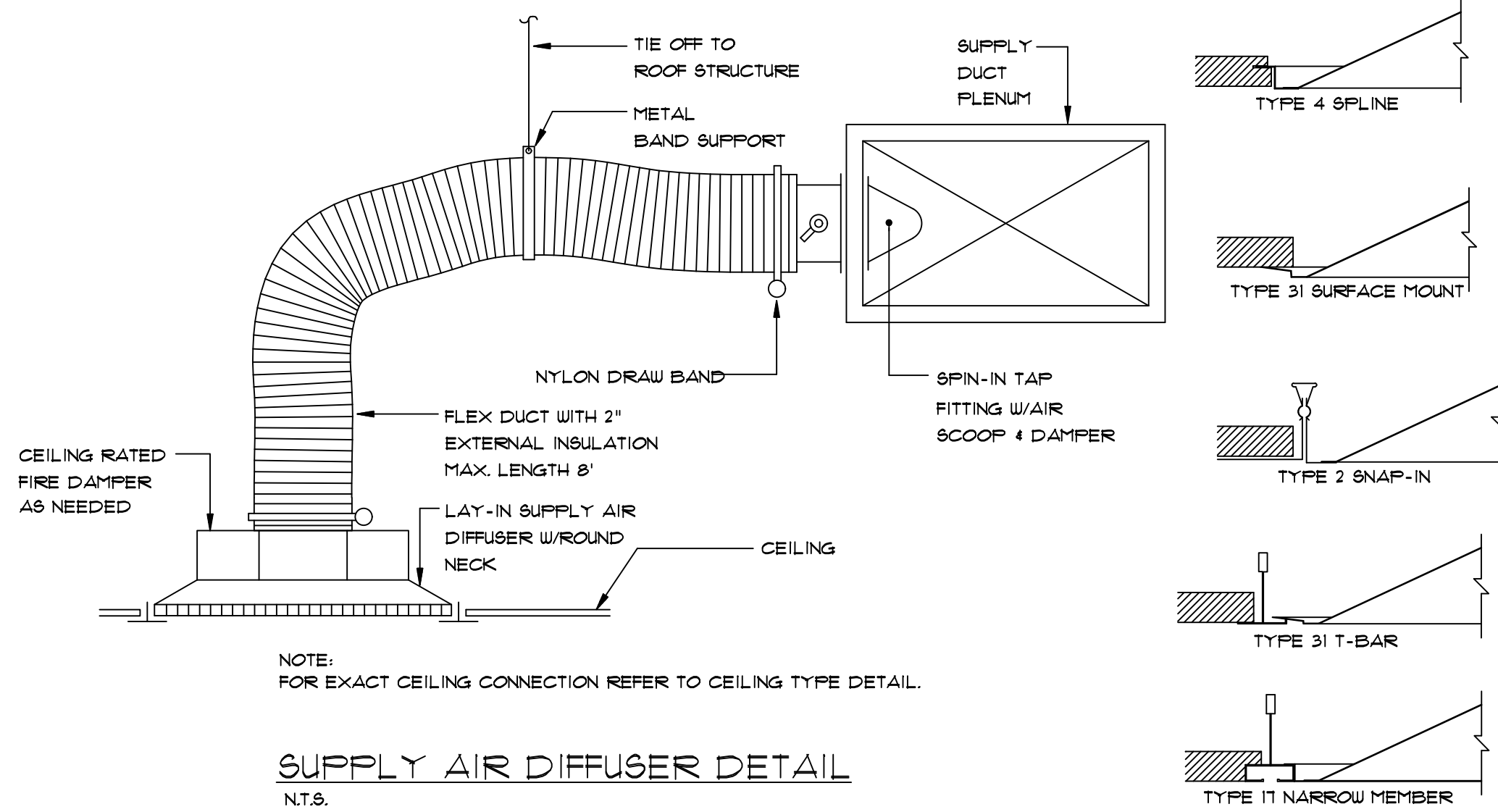


MECHANICAL PLAN 2ND FLOOR - BLDG A  
SCALE: 1/4" = 1'0"



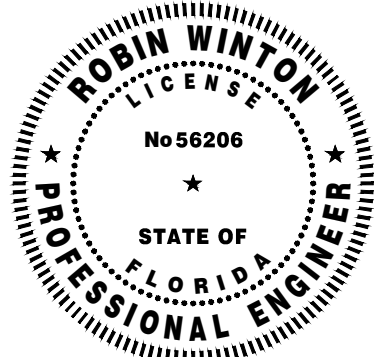
MECHANICAL PLAN 1ST FLOOR - BLDG A  
SCALE: 1/4" = 1'0"

1ST FLOOR OUTSIDE AIR IS BY NATURAL VENTILATION, AREA BEING CONDITIONED IS 665 SQFT AT 4% THAT IS 26.6 SQFT EACH SERVING WINDOW IS 15 SQFT FOR A TOTAL OF 30 SQFT OF OPEN AREA.



WINTON ENGINEERING, PA  
ROBIN WINTON, PE  
2207 WOODBINE DR  
TALLAHASSEE, FL 32309  
850 567-2019  
FL # 56206

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CD  
A

4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL CORP #AA-3314  
FL PE COA #28625

a complete engineering & construction management company  
FCM  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
TELEPHONE: (850) 837-7454 (ENGR.)  
TELEPHONE: (850) 837-7456 (INSP.)  
FAX: (850) 654-2000  
E-MAIL: cdm@fcmanet.com  
John H. Emanuel, PE FL #6840 FL Certificate of Authorization #649

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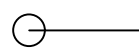
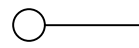
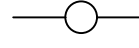
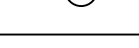
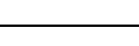
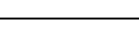
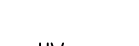
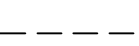
PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

SHEET TITLE:  
MECHANICAL PLAN  
SHEET SCALE: SEE PLAN

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: RPW  
CHECKED BY: RPW

M2.0



| PLUMBING LEGEND                                                                   |                     |
|-----------------------------------------------------------------------------------|---------------------|
| SYMBOL                                                                            |                     |
|  | ELBOW DOWN          |
|  | ELBOW UP            |
|  | TEE UP              |
|  | TEE DOWN            |
|  | CHANGE IN PIPE SIZE |
|  | SANITARY PIPE       |
|  | DOMESTIC COLD WATER |
|  | HOT WATER           |
|  | VENT PIPING         |

PLUMBING NOTES:

1.1 DESCRIPTION:

A. THE NON-TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS OF THESE SPECIFICATIONS ARE APPLICABLE IN FULL HERETO.

B. INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR COMPLETE AND OPERATING PLUMBING SYSTEMS. DUE TO THE SMALL SCALE OF THE FLOOR PLANS AND DIAGRAMMATIC RISER DIAGRAMS, SOME ITEMS INVOLVED MAY NOT BE INCLUDED.

1.2 WORK INCLUDED:

A. WORK WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS COMPLETE WITH ALL REQUIRED ACCESSORIES:

1. A SYSTEM OF SANITARY SOIL, WASTE AND VENT PIPING.
2. A SYSTEM OF DOMESTIC HOT AND COLD WATER PIPING.
3. PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, TRIM AS SPECIFIED HEREIN.
4. WATER SERVICE TO EACH FIXTURE REQUIRING SUCH SERVICE.
5. SANITARY BUILDING DRAINS AND FIXTURE BRANCHES FROM EACH FIXTURE REQUIRING SUCH SERVICE.
6. PIPING INCIDENTAL TO HEATING AND AIR CONDITIONING WORK TO THE EXTENT HEREIN SPECIFIED.

1.3 LAWS AND CODES:

A. THE CONTRACTOR SHALL INSTALL ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND BE INCLUSIVE OF ALL STATE, AND LOCAL CODES. ALL PROVISIONS OF THIS SECTION APPLY TO ALL PLUMBING WORK.

B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES REQUIRED INCIDENTAL TO THE WORK INVOLVED THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK.

C. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY LOCAL AUTHORITIES, LEGAL REGULATIONS AND RETURN TO THE ENGINEER ANY CERTIFICATE OF APPROVAL ISSUED FOR ALL PLUMBING WORK SIGNED BY THE INSPECTING ADMINISTRATIVE AUTHORITY IN CHARGE OF EACH PARTICULAR PART OF THE WORK.

1.4 QUALIFICATIONS:

A. THE CONTRACTOR SHALL BE A LICENSED PLUMBER CERTIFIED BY THE STATE.

1.5 DRAWINGS:

A. IN THE INTEREST OF CLEARNESS, THE WORK IS NOT ALWAYS SHOWN TO SCALE OR EXACT LOCATION. CHECK ALL MEASUREMENTS, LOCATION OF PIPE, FIXTURES AND EQUIPMENT WITH THE DETAIL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS, AND LAY OUT WORK SO AS TO FIT IN WITH CEILING GRIDS, LIGHTING AND OTHER PARTS. WHERE DOUBT ARISES AS TO THE MEANING OF THE PLANS AND SPECIFICATIONS, OBTAIN THE ENGINEER'S DECISION BEFORE PROCEEDING WITH PARTS AFFECTED OTHERWISE ASSUME LIABILITY FOR DAMAGE TO OTHER WORK AND FOR MAKING NECESSARY CORRECTIONS TO WORK IN QUESTION.

1.6 CHANGES AND CONFLICTS:

A. IF DURING CONSTRUCTION DESIRABLE OR NECESSARY CHANGES BECOME APPARENT, ADVISE THE ENGINEER AND SECURE HIS DECISION IN WRITING. OTHERWISE, MAKE NO DEVIATION FROM THE SYSTEM AS DETAILLED.

1.7 GUARANTEE AND SERVICE:

A. THE CONTRACTOR SHALL GUARANTEE ALL PIPING, EQUIPMENT, FIXTURES AND RELATED MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS. SUCH DEFECTS WILL BE CORRECTED PROMPTLY AFTER NOTIFICATIONS BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE WITH NO COST TO THE OWNER.

B. THE CONTRACTOR SHALL ALSO FURNISH WITHOUT CHARGE, ANY REASONABLE SERVICE IN MAKING MINOR ADJUSTMENTS TO FIXTURES AND EQUIPMENT FOR THE SAME PERIOD, BUT THIS SERVICE WILL NOT INCLUDE THE REPLACEMENT OF PARTS DAMAGED BY MALICIOUSNESS OR VANDALISM AFTER ACCEPTANCE BY THE OWNER, OR CLEARING OF OBSTRUCTION FROM SEWERS CAUSED BY OTHER THAN DEFECTS IN THE LINE.

C. THE CONTRACTOR SHALL PUT ALL ITEMS INSTALLED UNDER THIS DIVISION INTO OPERATION AND WILL INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN ALL POINTS REQUIRING SERVICE AND MAINTENANCE.

1.8 SUBMITTAL DATA:

A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT PROPOSED. PARTIAL LISTS WILL NOT BE CONSIDERED. INCLUDE CATALOG DATA, SCHEDULED CAPACITIES, ETC, WHERE SUBSTITUTIONS ARE PROPOSED. FOLLOW PROCEDURES SET FORTH IN THE GENERAL CONDITIONS.

B. UPON REQUEST, SUBMIT SHOP DRAWINGS SHOWING PROPOSED ARRANGEMENT OF EQUIPMENT, PIPING, FLOOR DRAINS, POWER REQUIREMENTS AND CONTROLS. IN ANY CASE, SUBMIT DETAIL LAYOUTS OF POTENTIAL CONFLICTS AT PLUMBING DROPS, EQUIPMENT ROOMS, TIGHT CEILINGS, ETC.

1.9 EXISTING CONDITIONS:

A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL JOB CONDITIONS. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

B. THE DRAWINGS INDICATE SYSTEMS WHICH ARE LOCATED IN EXISTING PARTITIONS AND BEHIND WALLS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL PIPING CONNECTIONS AND INCLUDE IN HIS BID CONTINGENCIES FOR THE RELOCATION OF SUCH SYSTEMS IF CONNECTIONS CAN NOT BE MADE AS SHOWN ON THE DRAWINGS.

C. THE CONTRACTOR IS REQUIRED TO CONNECT TO EXISTING PLUMBING SYSTEMS FOR THE CONSTRUCTION OF THIS PROJECT AND IS REQUIRED TO KEEP DISRUPTION OF THE EXISTING SYSTEMS TO A MINIMUM. SCHEDULE CONNECTION TO EXISTING SYSTEMS IN ADVANCE AND ADVISE THE OWNER TO THE LENGTH OF TIME SUCH SYSTEMS WILL NOT BE IN OPERATION. THE CONTRACTOR SHALL MAKE CONNECTIONS AFTER HOURS OR ON WEEKENDS IF REQUESTED BY THE OWNER. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

1.10 PHASING:

A. INTERRUPT EXISTING SERVICES ONLY AT TIMES APPROVED BY THE OWNER. HOLD INTERRUPTIONS TO THE MINIMUM IN DURATION AND FREQUENCY.

1.11 AS-BUILT DRAWINGS:

A. OMIT

1.12 MANUALS:

A. FURNISH FIVE (5) COPIES OF MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS AND PARTS LISTS FOR ALL FIXTURES AND EQUIPMENT BOUND TO FIVE (5) MANUALS. LOOSE SHEETS WILL NOT BE ACCEPTED. ONE MANUAL WILL BE SUBMITTED TO THE ENGINEER COMPLETE, PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. THE REMAINING FOUR (4) MANUALS WILL BE SUBMITTED TO THE ENGINEER.

1.13 COORDINATION OF WORK WITH OTHER TRADES:

A. THE CONTRACTOR SHALL LAYOUT AND PROCEED WITH THIS WORK SO THAT THIS WORK WILL BE EXECUTED IN HARMONY WITH ALL OTHER CONTRACTS PERTAINING TO THIS PROJECT.

B. ALL ELECTRICAL POWER WIRING REQUIRED FOR INSTALLATION OF EQUIPMENT UNDER THIS SECTION IS SPECIFIED UNDER ELECTRICAL DIVISION. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROLS, AND CONTROL WIRING AS SPECIFIED OR REQUIRED TO PROPERLY COMPLETE THE INSTALLATION. CONTROL CONDUIT IS SPECIFIED UNDER ELECTRICAL DIVISION TO THE EXTENT SHOWN ON ELECTRICAL DRAWINGS. ALL OTHER CONTROL CONDUIT SHALL BE PROVIDED UNDER THIS SECTION OF WORK. ALL ELECTRICAL WORK PERFORMED UNDER THIS SECTION SHALL MEET REQUIREMENTS SET FORTH IN THE ELECTRICAL DIVISION.

C. PIPE SLEEVES - FIT ALL PIPES PASSING THROUGH MASONRY AND JOBS CAST CONCRETE CONSTRUCTION WITH SLEEVES. SLEEVES SHALL BE CUT FLUSH WITH EACH SURFACE. 1/2" LARGER IN DIAMETER THAN THE PASSING PIPE OR COVER. BUILT-IN AS WORK PROGRESSES. SLEEVES THROUGH JOISTS AND BEAMS SHALL BE OF GALVANIZED STEEL PIPE OTHER SLEEVES SHALL BE OF 16 GAUGE GALVANIZED IRON. MAKE SPACE BETWEEN FLOOR SLEEVES AND PASSING PIPES WATERTIGHT BY CAULKING WITH FIREPROOF PACKING AND PLASTIC WATERPROOF CAULKING COMPOUND.

D. ACCESS PANELS AND DOORS:

1. FURNISH TO GENERAL CONTRACTOR FOR INSTALLATION, WHEREVER REQUIRED FOR ACCESS TO VALVES, AIR VENTS OR SIMILAR DEVICES. DOORS SHALL BE SUITABLE FOR WALL FINISH INVOLVED, 12" X 16" UNLESS OTHERWISE INDICATED. FIRE RATED WHERE FIRE WALLS ARE PENETRATED, MILCOR, PHILIP CAREY, ZURN OR OTHER APPROVED EQUAL.

2. WHERE DEVICE OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL, IDENTIFY THE PANEL WITH A 3/4" X 1/8" ROUND HEAD SELF-THREADING SCREW, SCREWED INTO PANEL WITH ONLY THE HEAD SHOWING, BEFORE INSERTING. PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.

E. CUTTING AND PATCHING:

1. OPENINGS ARE TO BE LAID OUT AND BUILT-IN FURNISH DETAILED LAYOUT DRAWINGS TO OTHER TRADES IN ADVANCE OF THEIR WORK. PIPING WITHIN OR BEHIND WALLS MUST BE INSTALLED BEFORE WALL IS ERECTED. OTHERWISE WALLS, ETC, AFFECTED MUST BE REWORKED BY TRADE WHICH ERECTED SAME AT EXPENSE OF THE CONTRACTOR CHASING AND CUTTING OF NEW WORK WILL NOT BE ACCEPTED.

2. CUTOUTS IN COUNTERTOPS SHALL BE MADE BY MILLWORK CONTRACTOR UPON RECEIPT OF PROPER TEMPLATES. OPENINGS IN EXISTING WALLS SHALL BE MADE BY TRADE REQUIRING SAME, WITH REPAIRING AND PATCHING REQUIRED THEREBY DONE BY THE RESPECTIVE TRADE WHOSE WORK IS DAMAGED.

F. PAINTING AND FINISHING:

1. CLEAN AND PAINT WITH TWO COATS OF ENAMEL ALL EXPOSED FERROUS METAL PARTS OF MECHANICAL EQUIPMENT LOCATED IN MACHINERY ROOMS, ABOVE CEILINGS, ETC. (INCLUDE BLACK STEEL PIPE, UNCOATED CAST IRON PIPE, HANGERS, BRACKETS, ETC.).

2. PAINTING OF SURFACES IN FINISHED AREAS IS SPECIFIED UNDER SECTION "PAINTING". WHERE FACTORY FINISHED ITEMS ARE MARRED OR SCRATCHED, REPLACE THE ITEM, OR UPON APPROVAL, REFINISH OR TOUCHUP AS REQUIRED TO BRING TO A LIKE-NEW CONDITION.

G. CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE FLOOR DRAINS REQUIRED FOR THIS EQUIPMENT AS SCHEDULED ON THE DRAWINGS.

2. ALL REQUIRED WATER SUPPLY LINES WILL BE EXTENDED TO WITHIN 2'-0" OF EQUIPMENT LOCATIONS AND TERMINATED WITH A GATE VALVE. FINAL CONNECTIONS TO EQUIPMENT WILL BE MADE BY THE PLUMBING CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER.

1.14 MISCELLANEOUS REQUIREMENTS:

A. MATERIALS AND EQUIPMENT - NEW AND OF BEST QUALITY IN EVERY RESPECT. PIPE AND FITTINGS SHALL CONFORM TO THE ASTM STANDARD DESIGNATED FOR PIPE OF EACH MATERIAL. EQUIPMENT SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER AND UL APPROVED WHERE COMMERCIALLY AVAILABLE. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER. HOWEVER, THE COMPONENT PARTS OF EACH UNIT NEED NOT BE.

B. WORKMANSHIP - FIRST CLASS AND IN ACCORDANCE WITH BEST PRACTICE. PIPE SHALL BE CUT CLEAN, PROPERLY REAMED, THREADED OR SOLDERED, ERECTED PLUMB AND SECURE. MAKE CHANGES IN PIPE SIZE WITH REDUCING FITTINGS WITHOUT THE USE OF BUSHINGS. WORK SHALL BE EXECUTED BY EXPERIENCED MECHANICS AND SHALL PRESENT A NEAT APPEARANCE. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. AT ALL STAGES OF INSTALLATION, PROTECT PIPE OPENINGS, FIXTURES AND EQUIPMENT AGAINST THE ENTRANCE OF FOREIGN MATERIALS, AND FROM DAMAGE BY THE ELEMENTS, MORTAR, PAINT, ETC.

D. FACTORY FINISHES - MANUFACTURER'S STANDARD UNLESS OTHERWISE STATED. SUBMIT COLOR CARDS FOR SELECTION WHERE CHOICE EXISTS.

E. EXPANSION - PROVIDE FOR EXPANSION AND CONTRACTION OF ALL PIPING AND MAKE PROPER PROVISIONS SO THAT EXCESSIVE STRAIN WILL NOT OCCUR ON PIPING OR OTHER PARTS.

F. SAFETY PROVISIONS - PROVIDE COVERS OR GUARDS ON ALL HOT, MOVING AND PROJECTING ITEMS WHICH COULD BE A HAZARD TO OCCUPANTS OF THE BUILDING OR TO SERVICE PERSONNEL.

G. CLEANING AND ADJUSTING - UPON COMPLETION OF WORK, CLEAR ALL DRAINS, TRAPS, FIXTURES, DUCTS AND PIPE. ADJUST ALL VALVES, PACK STUFFING BOXES, REMOVE RUBBISH AND LEAVE WORK IN CLEAN AND OPERATING CONDITION.

H. ESCUTCHEONS - WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE PRESSED CHROME-PLATED BRASS OR STEEL PLATES SECURELY FASTENED IN PLACE.

PART 3 - EXECUTION

3.1 SANITARY PIPING:

A. SCOPE - PROVIDE A SYSTEM OF SOIL, WASTE AND VENT PIPING CONNECTING ALL PLUMBING FIXTURES, EQUIPMENT, ETC, TO THE BUILDING DRAIN SYSTEM WITH CONSOLIDATED VENT CONNECTIONS EXTENDING THROUGH THE BUILDING ROOF, ALL AS SHOWN ON THE DRAWINGS.

B. FREEZE PROTECT ALL EXPOSED SANITARY PIPING.

C. LAYING OUT WORK - VENTS FROM ANY FIXTURE, WHEN CONNECTED TO VENT LINE SERVING OTHER FIXTURES, SHALL BE EXECUTED AT LEAST SIX (6) INCHES ABOVE FLOOD LEVEL. RIM OF HIGHEST OF SUCH FIXTURES TO PREVENT USE OF VENT LINES AS A WASTE. MAKE CHANGES IN DIRECTION BY APPROPRIATE USE OF 45 DEGREE Y'S, 1/2" Y'S, OR LONG SUEEP 1/4, 1/6, 1/8 OR 1/6 BENDS. SANITARY T'S OR SHORT 1/4 BENDS MAY BE USED ON VERTICAL STACKS OR DRAINAGE LINES WHERE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL. EXCEPT THAT LONG-TURN T'S SHALL BE USED WHEN TWO FIXTURES ARE INSTALLED BACK TO BACK WITH COMMON DRAIN. STRAIGHT T'S, ELBS AND CROSSSES MAY BE USED ON VENT LINES. MAKE NO CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES. WHERE DIFFERENT SIZES OF DRAINAGE PIPES OR FITTINGS ARE CONNECTED, USE STANDARD INCREASERS AND REDUCERS OF PROPER SIZE. DO NOT REDUCE SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW. DRILLING AND TAPPING OF HOUSE DRAINS, SOIL, WASTE OR VENT PIPES, AND USE OF SADDLE HUBS AND BANDS ARE PROHIBITED.

D. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED.

E. HANGERS - SUPPORT PIPE ADJACENT TO EACH FITTING AND ON CENTERS NOT EXCEEDING FIVE FEET WITH HANGERS AS SPECIFIED HEREINAFTER. RIGIDLY SUPPORT BASE OF VERTICAL RUNS WITH SOLID MASONRY OR CONCRETE.

F. IN ADDITION, PROVIDE ADEQUATE BUAY BRACING TO STABILIZE ALL COMPONENTS OF THE SYSTEM. PROVIDE SPECIAL SUPPORT FOR FIXTURE ARMS, CLOSET BENDS, ETC.

G. GRADING - UNIFORM AND NOT LESS THAN 1/8" PER FOOT FOR PIPE 4" AND OVER, AND NOT LESS THAN 1/4" PER FOOT FOR 2" AND 3" PIPING.

H. WASTE ARMS - PVC DWV OR IPS BRASS PIPE TYPICAL. IPS BRASS PIPE AT URINALS.

I. TEST FITTINGS - NOT SHOWN ON THE DRAWINGS. PROVIDE WHERE REQUIRED FOR PARTIAL TESTS.

J. PIPING TO BE CAST IRON OR PVC - DWV IN ACCORDANCE WITH FFC 2020 1TH EDITION.

3.3 WATER PIPING:

A. SCOPE - CONNECT TO UTILITIES AS SHOWN ON THE DRAWINGS AND COORDINATE WITH THE OWNER.

B. GENERAL WORKMANSHIP - CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING. PROPERLY CLEARING ALL OPENINGS, FINISHED CEILINGS, ETC. ROUTE THROUGH PREVIOUSLY BUILT-IN SLEEVES AND AVOID EXCESSIVE CUTTING OR OTHER WEAKENING OF THE STRUCTURE. REAM ALL PIPE TO REMOVE BURRS. MAKE CHANGES IN DIRECTION AND SIZE WITH FITTINGS. CAP OR PLUG OPEN PIPE ENDS DURING INSTALLATION TO KEEP OUT FOREIGN MATERIAL. MAKE CONNECTIONS CAREFULLY TO INSURE UNRESTRICTED FLOW. ELIMINATE AIR POCKETS AND TO PERMIT COMPLETE DRAINAGE OF THE SYSTEMS. FREEZE PROTECT ALL EXPOSED WATER PIPING.

C. GRADING - GRADE PIPE UPWARD FROM SOURCE TO FACILITATE DRAINAGE AND AIR RELIEF. WHERE LOW POINTS ARE REQUIRED BECAUSE OF LONG RUNS OR WHERE SECTIONS MAY BE VALVED OFF, PROVIDE WITH 3/4" GLOBE VALVE AND HOSE NIPPLE FOR DRAINAGE AT LOW POINT. MAKE ALL CONNECTIONS TO RISERS AND FIXTURES FROM TOP OF MAINS.

D. NIPPLES - OF SAME MATERIAL AS PIPE IN WHICH THEY ARE INSTALLED PROVIDE EXTRA STRONG WHEN UNTHREADED PORTION IS LESS THAN 1" LONG.

E. PIPING TO BE COPPER OR CPVC.

3.4 WATER PIPING SPECIALTIES:

A. UNIONS - 150 LB. RATED CAST BRASS GROUND-JOINT TYPE IN COPPER PIPE, GALVANIZED MALLEABLE IRON IN UROUGHT IRON OR GALVANIZED PIPE.

B. PROVIDE IN ALL SIZES OR THREADED PIPE, AND IN SWEAT JOINED PIPE OVER 1", SO AS TO FACILITATE EASY REPAIRS. IN SUCH LINES INSTALL ADJACENT TO WATER HEATERS, PUMPS, TANKS, ETC. INTO WHICH PIPING IS TERMINATED AND ON AT LEAST ONE SIDE OF VALVES, CODES, STRAINERS, ETC., AND OTHER DEVICES WHICH OCCUR IN PIPING RUNS.

C. PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON-FERROUS PIPING (INCLUDING PIPING AND WATER HEATER STUDS WHERE DIFFERENT).

D. VALVES - PROVIDE WHERE SHOWN AND/OR SPECIFIED, INCLUDING ALL FIXTURES OR EQUIPMENT NOT FURNISHED WITH STUDS. ALL VALVES OF EACH TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER. STOCKHAM UNITS AS INDICATED BELOW OR EQUALS BY CRANE OR WALLWORTH. ALL VALVES SHALL BE RATED 200 LB. WWP.

E. BALL VALVES 2" AND SMALLER - 5-20T BR CAST BRONZE FOR THREADED PIPE.

F. SHOCK ABSORBERS - CERTIFIED BY PLUMBING AND DRAINAGE INSTITUTE STANDARD FDI-UH-201. PROVIDE WHERE INDICATED.

G. WALL HYDRANTS (TYPICAL) - SEE FIXTURE SCHEDULE. FURNISH VACUUM BREAKER ON EACH HYDRANT.

H. YARD HYDRANTS (TYPICAL) - NON-FREEZE 3/4" CHROMIUM PLATED BRONZE HOSE BIBS WITH LOOSE KEY. WADE U-8620 WITH INTEGRAL BACKFLOW PREVENTER OR APPROVED EQUAL. FURNISH VACUUM BREAKER ON EACH HYDRANT. INSTALL FLUSH WITH FINISH GRADE. SEE DRAWINGS FOR LOCATION.

I. PRESSURE REDUCING VALVES - WATTS/MUESCO SERIES I IS AS SIZED ON DRAWING. FURNISH WITH WATTS NO. TTS OR TTF 1/2" TYPE STRAINER, CRANE OR STOCKHAM.

J. THERMOMETERS - "ANY ANGLE" TYPE WITH 9 INCH SCALE AND SUITABLE TEMPERATURE RANGE, AS MANUFACTURED BY TERRECE TYPE BX. THERMOMETERS SHALL BE MERCURY ACTUATED WITH PHENOL CONDENSATE WITH ALUMINUM OR BRASS CASES AND 6" SOCKET WITH EXTENSION NECK. LOCATE 80 AS TO BE CONVENIENT FOR CALIBRATING. EQUAL PRODUCT BY WESKIER, MARSH OR MAXWELL MOORE WILL BE ACCEPTED.

K. PRESSURE GAGES - BOURDON TUBE TYPE, AS MANUFACTURED BY TERRECE NO. 600 COMPLETE WITH CAST ALUMINUM CASE, NO. 872 VIBRATION OR PULSATION SNUBBER AND NO. 135 NEEDLE VALVE. GAGE DIALS SHALL BE NOT LESS THAN 4-1/2" AND CASES SHALL BE OF ALUMINUM ALLOY. FURNISH WITH SUITABLE PRESSURE RANGES FOR EACH APPLICATION. EQUAL PRODUCTS BY WESKIER, MARSH OR ASHCROFT WILL BE ACCEPTED.

L. VACUUM BREAKER - WATTS NO. 36A, CRANE OR STOCKHAM.

M. HOT WATER PIPING TO INSULATED PER FLORIDA PLUMBING CODE.

3.5 PIPE HANGERS AND SUPPORTS: PER FT FO

A. SPACING - INSTALL SUPPORTS AS REQUIRED TO PREVENT SAGS, BENDS OR VIBRATION IN ANY CASE PROVIDE WITHIN SIX INCHES OF ELBOWS AND VALVES, AT ENDS OF BRANCHES OVER FIVE FEET, AND ON CENTERS NOT EXCEEDING THE FOLLOWING:

1. COPPER TUBING - UP TO 1", 6 FEET; OVER 1", 8 FEET
2. STEEL PIPE - UP TO 4", 8 FEET; 1-1/2" AND 2", 10 FEET; 2" THROUGH 3-1/2", 12 FEET OVER 3-1/2", 16 FEET
3. CAST IRON PIPE - REFER TO SANITARY PIPING

B. EQUAL PRODUCTS - EQUIVALENT DEVICES BY GRINNELL, ELSEN, STOCKHAM OR CRANE WILL BE ACCEPTED.

C. HANGER RODS - OF MILD STEEL, THREADED AS REQUIRED, USE NOT SMALLER THAN 3/8" RODS FOR PIPE 2" AND UNDER, 1/2" RODS FOR PIPES 2-1/2" THROUGH 6", BUT GENERALLY AS STANDARD FOR THE HANGER SELECTED. SUPPORT RODS WITH THREADED INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS.

D. AT TYPICAL SUSPENDED HORIZONTAL PIPE - ADJUSTABLE CLEVIS OR SPLIT-RING TYPE, EQUAL TO FEE 4 MASON 235 OR 215.

E. WHERE IN CONTACT WITH COPPER PIPE - SAME AS ABOVE EXCEPT HANGERS COPPER PLATED.

F. VERTICAL PIPING ALONG WALL - FEE 4 MASON #241 RISER CLAMPS AT FLOORS AND 1536 STAND-OFF BRACKETS TO WALL. PLACE UNDER HUBS OR COUPLINGS WHERE AT ALL POSSIBLE. GRINNELL OR WATTS.

G. ON INSULATED LINES - SIZE HANGER LOOPS TO FIT OVER INSULATION, AND ADD BRACKETS AND U-BOLTS. SECURE THE PLATE BRACKETS TO CAST IRON STACKS. U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE. BRACKETS SHALL BE F 4 M BRACKET CO. OR EQUAL.

H. SUPPORTS FOR WATER SUPPLY PIPING IN SPACES BEHIND PLUMBING FIXTURES - ADD BRACKETS AND U-BOLTS. SECURE THE PLATE BRACKETS TO CAST IRON STACKS. U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE. BRACKETS SHALL BE F 4 M BRACKET CO. OR EQUAL.

I. AT HORIZONTAL PIPING ALONG WALL - FEE 4 MASON #46 1-HOOKS.

3.1 FIXTURE SUPPORTS AND CONNECTIONS:

A. GENERAL - ALL FIXTURES INCLUDING LAVATORIES, URINALS, WATER CLOSETS, ELECTRIC WATER COOLERS, ETC, MUST BE SECURELY FASTENED TO THE WALLS OR FLOOR.

B. WALL MOUNTED FIXTURES - SUPPORT ALL WALL MOUNTED FIXTURES WITH 3/16" THICK X 3-1/2" HIGH PLATES FULL LENGTH OF FIXTURE, MOUNTED BEHIND WALL. WHERE FIXTURES ARE BACK TO BACK ON A SOLID WALL, MOUNT WITH BOLTS FROM FIXTURE HANGER TO FIXTURE HANGER. DO NOT USE TOGGLE BOLTS OR EXPANSION BOLTS EXCEPT AS NOTED. WHERE FIXTURES ARE MOUNTED ON SOLID WALLS FINISHED BOTH SIDES, INSTALL FIXTURE WITH PLATED TOGGLE BOLTS. WHERE FIXTURES ARE MOUNTED ON WELDED STUDS, EMPLOY 3/16" STEEL HANGER PLATES PLACED ON WALL BEFORE LATHING. PLATES SHALL BE 16" X 8" MINIMUM SIZE, AND SHALL HAVE WELDED-ON BOLT STUDS. WHERE FIXTURES ARE MOUNTED ON WOOD OR LIGHT GAUGE STEEL STUDS, EMPLOY PRESSURE TREATED BLOCKING OF 2 X 10 NOMINAL SIZE WELL SECURED INTO STUD LINE WITH NON-CORROSIVE FASTENERS. FIT BEHIND STUD FLANGES, USING ESPECIALLY PLATED STUDS AS REQUIRED.

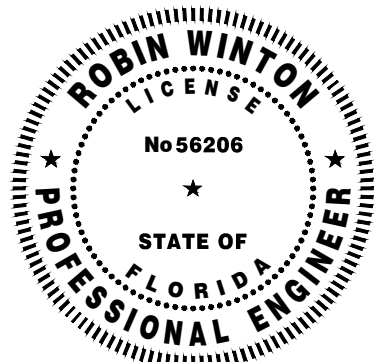
C. FLOOR CONNECTIONS - PROVIDE FLOOR FLANGES, SCREWED OR CAULKED TO DRAINAGE PIPE. BOLT THE CONNECTION AND MAKE TIGHT TO FIXTURE WITH SETTING RING OR POLYETHYLENE GASKET FLANGE.

D. WASTE ARMS TO FIXTURES - AS SPECIFIED HEREINBEFORE. WHERE COPPER OR BRASS PIPE IS SPECIFIED, ALL JOINTS DOWNSTREAM FROM TRAP SHALL HAVE SOLDERED JOINTS.

E. STERILIZATION - THE COMPLETED SUPPLY LINE SHALL BE STERILIZED AS REQUIRED BY STATE LAW BEFORE ACCEPTANCE FOR DOMESTIC OPERATION.

WINTON ENGINEERING, PA  
ROBIN WINTON, PE  
2207 WOODBINE DR  
TALLAHASSEE, FL 32309  
850 567-2019  
FL # 56206

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SHEET TITLE:  
**PLUMBING  
NOTES**

SHEET SCALE: SEE PLAN

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: RPW  
CHECKED BY: RPW

P1.0

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4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL CORP #AA-3314  
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4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
TEL: 850.837.4664  
FAX: 850.654.2000  
E-MAIL: edmund@ecmnet.com  
Web: www.ecmnet.com  
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DATE: 10/03/2025

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PROJECT: HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

SHEET TITLE: PLUMBING NOTES  
SHEET SCALE: SEE PLAN

JOB No.: 2506  
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TYPICAL WATER HAMMER PANEL INSTALLATION  
SINGLE AND DOUBLE APPLICATION  
N.T.S.



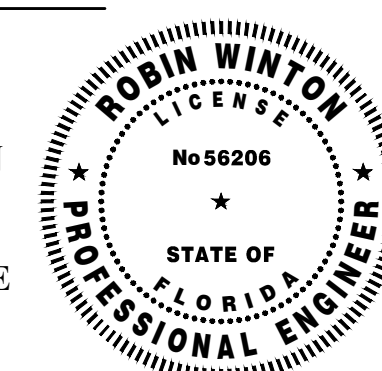
KEYNOTES:

- ① REFER TO CIVIL FOR CONTINUATION.
- ② UP TO FIXTURE ON 2ND FLOOR.
- ③ ROUTE PIPE DOWN WALL.
- ④ PROVIDE WATER HAMMER, REFER TO DETAIL.
- ⑤ ROUTE VENT LINE UP INTERIOR WALL TO VENT THRU ROOF.
- ⑥ PROVIDE WALL BOX AND VALVE FOR FIXTURE.
- ⑦ ROUTE PIPE ON INSIDE OF CMU WALL IN CHASE AREA.



WINTON ENGINEERING, PA  
ROBIN WINTON, PE  
2207 WOODBINE DR  
TALLAHASSEE, FL 32309  
850 567-2019  
FL # 56206

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4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

FL. CORP #AA-331  
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**a complete engineering & construction  
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TELEPHONE: (850) 837-7454 (ENGR.)  
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HELEN MCCALL PARK  
10 ACRE EXPANSION  
WALTON COUNTY, FLORIDA

PROJECT:

SHEET TITLE:

PLUMBING PLAN

SHEET SCALE: SEE PLAN

JOB No.:

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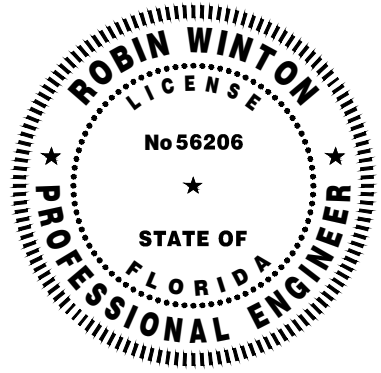


GREASE TRAP SIZING:

THE FOLLOWING IS THE CALCULATION FOR THE ON-FLOOR GREASE INTERCEPTOR BASED ON THE CURRENT EDITION OF IBC.

STEELTON 48" 2-COMPARTMENT SINK MODEL #522US22424  
BOWL SIZE: (3) 24"L x 24"W x 14"D. = 8064 CU. IN.  
CU. IN TO GALLON CONVERSION = 8064 / 231 = 35 GAL.  
ACTUAL FLOW RATE @ 75% CAPACITY = 35 X .75 = 27  
FLOW RATE (2 MIN DRAIN PERIOD) = 27 GPM.  
FINDINGS: USE A GREASE INTERCEPTOR WITH A 27 GPM FLOW RATE MIN.

WINTON ENGINEERING, PA  
ROBIN WINTON, PE  
2207 WOODBINE DR  
TALLAHASSEE, FL 32309  
850 561-2019  
FL # 56206



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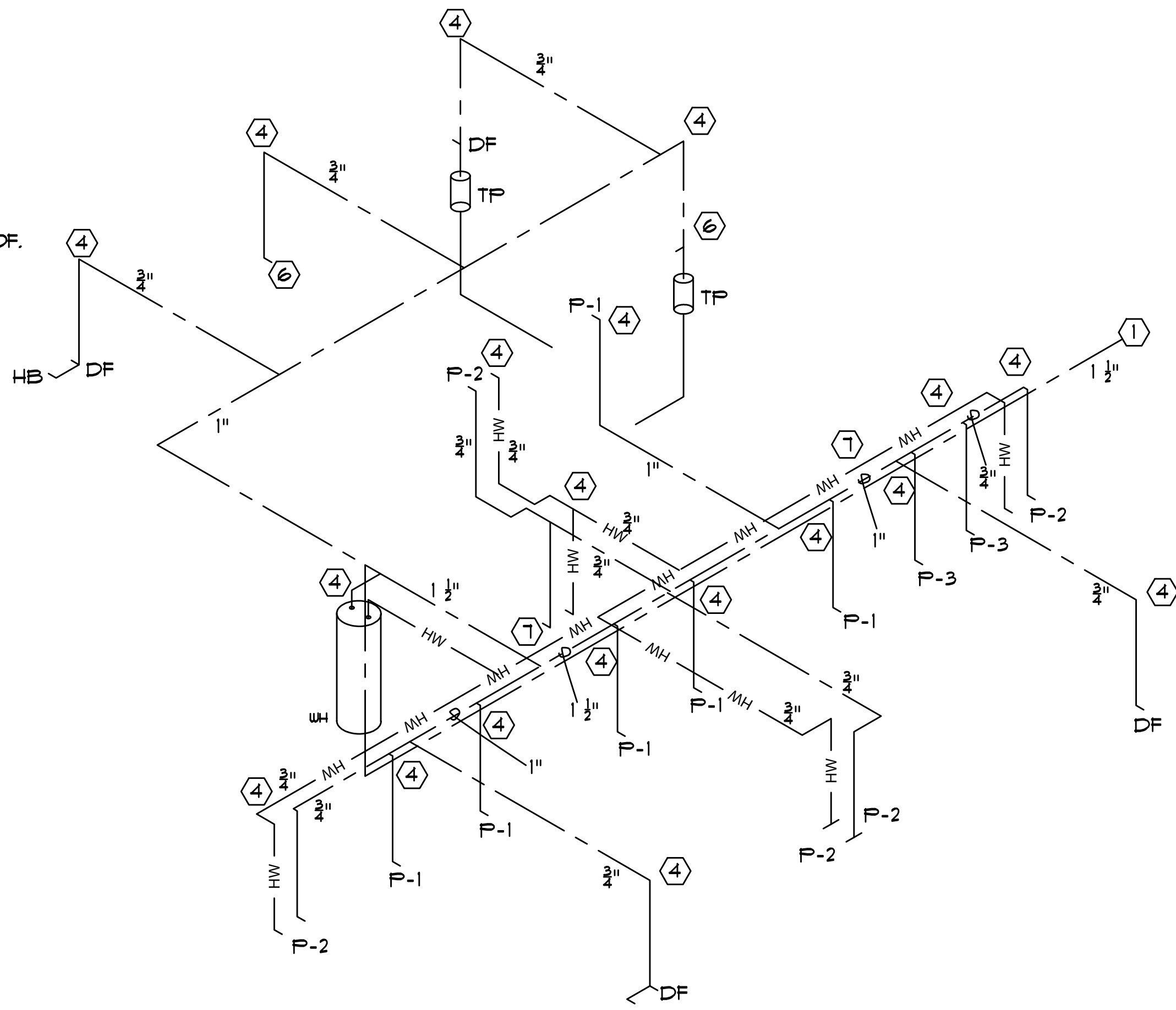
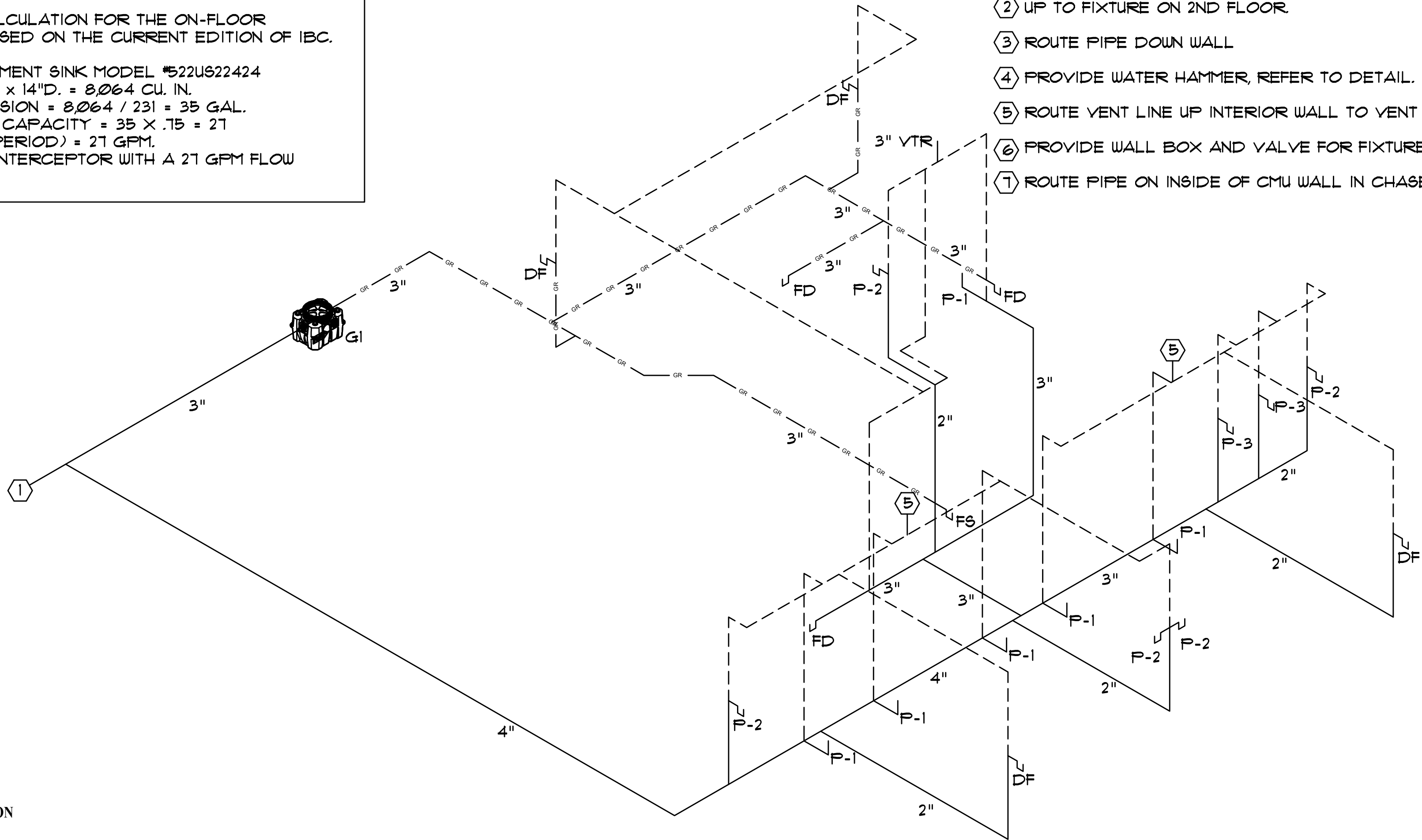
PLUMBING SANITARY RISER - BLDG A

SCALE: NTS

| FIXTURE NO. | FIXTURE                      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                 | C.W. | H.W. | WASTE | MOUNTING           | SUPPLY BY | INSTALL BY |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------------------|-----------|------------|
| WH          | ELECTRIC WATER HEATER        | A.O. SMITH OR EQUAL DEL-50, 3.0 KW, 240/1V UL-LISTED. STORAGE CAPACITY TO BE 50 GALLONS WITH 15 GALLONS RECOVERY AT 80 DEG. TEMP RISE. PROVIDE STANDARD WARRANTY. SET WATER TEMPERATURE TO 110 DEGREES. CONNECT WITH DIELECTRIC UNIONS. PROVIDE HEAT TRAP OR EXPANSION TANK PER CODE. SET HEATER IN GALVANIZED DRAIN PAN. CARRY T&P RELIEF LINE TO EXTERIOR | 1"   | 1"   |       | HUNG EXTERIOR WALL | PC        | P.C.       |
| P-1         | FLUSH VALVE WATER CLOSET     | KOHLER K-4368 TOP SPUD WATER CLOSET, SLOAN ROYAL II 111-1.6 FLUSHOMETER. WITH A K-4670 LUSTRA OPEN FRONT SEAT, PROVIDE WALL PIPE COVER PLATE                                                                                                                                                                                                                | 1"   |      | 3"    | FLOOR              | P.C.      | P.C.       |
| P-2         | ADA WALL HUNG SINK           | ZURN Z5340 WAL HUNG LAV WITH A KOHLER K-23472-4K FAUCET MATT BLACK PROVIDE WALL HANGER JRSMITH 0700 PROVIDE AND INSTALL UNIVERSAL THERMOSTATIC MIXING VAVLE SET AT 110 DEGREE F OR PER LOCAL CODE.                                                                                                                                                          | 1/2" | 1/2" | 2"    | WALL WITH HANGER   | PC        | P.C.       |
| P-3         | URNIAL                       | BARDON™ HIGH-EFFICIENCY URINAL K-4991-ET WASHOUT URINAL, 3/4" TOP SPUD, 0.125 - 1.0 GPF, 14" (356 MM) EXTENDED RIM, ROYAL MANUAL FLUSHOMETER ROYAL 186-0.5 POLISHED CHROME TOP SPUD SINGLE FLUSH                                                                                                                                                            | 3/4" |      | 2"    | WALL WITH HANGER   | PC        | P.C.       |
| DF          | DRINKING FOUNTAIN            | ELKAY EZH20 VRCTLDDWSK BOTTLE FILLING STATION WITH BILEVEL ADA COMPLIANT FOUNTAINS. ANTIMICROBIAL, GREEN TICKER™, HANDS FREE, ELKAY CANE APRON LAMINAR FLOW, REAL DRAIN. 115/1, 370 WATTS, 4.2 FLA, 170 LBS, ADA COMPLIANCE PROVIDE JR SMITH HANGER                                                                                                         | 1/2" |      |       | WALL WITH HANGER   |           |            |
| FD          | FLOOR DRAIN                  | JOSAM MODEL #30000-A WITH STRAINER AND TRAP PRIMER. FLOOR DRAIN FOR WATER HEATER OVER FLOW. PROVIDE WATERLESS TRAP PRIMER.                                                                                                                                                                                                                                  |      |      | 3"    | FLOOR              | PC        | PC         |
| HB          | HOSE BIBB                    | JR SMITH 5509QT-R BRONZE NICKEL PLATED QUARTER TURN NON-FREEZE HYDRANT WITH HOSE CONNECTION, INTEGRAL VACUUM BREAKER, "T" HANDLE KEY, AND STAINLESS STEEL BOX WITH FULL 180° COVER OPENING. PROVIDE SHUT OFF VALVE BEFORE EACH HOSE BIBB PER IPC                                                                                                            | 3/4" |      |       | WALL               | PC        | P.C.       |
| HA          | WATER HAMMER ARRESTOR        | SIOUX CHIEF MINIRESTER, COPPER, 250 PSI WORKING PRESSURE NSF LISTED                                                                                                                                                                                                                                                                                         | 3/4" | 3/4" |       | PIPE               | PC        | P.C.       |
| VB          | VACUUM BREAKER               | WATTS N9 3/8" FEM. x 3/8" FEM. AT SPRAY RINSE ASSEMBLY                                                                                                                                                                                                                                                                                                      |      |      |       |                    | P.C.      | P.C.       |
| RPZ         | REDUCED PRESSURE ZONE DEVICE | WATTS 009M3QT REDUCED PRESSURE ZONE ASSEMBLY. CONTAINMENT AT THE SERVICE LINE ENTRANCE.                                                                                                                                                                                                                                                                     |      |      |       |                    | P.C.      | P.C.       |
| FCO         | FLOOR CLEAN OUT              | PROVIDE IF/AS REQUIRED:<br>J. R. SMITH FIG. 4151 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION. CLEANOUTS MUST BE ACCESSIBLE FROM THE SPACE.                                                                                        |      |      | 3"    | FLOOR              | P.C.      | P.C.       |
| WCO         | WALL CLEAN OUT               |                                                                                                                                                                                                                                                                                                                                                             |      |      | 3"    | WALL               | P.C.      | P.C.       |

KEYNOTES:

- 1 REFER TO CIVIL FOR CONTINUATION.
- 2 UP TO FIXTURE ON 2ND FLOOR.
- 3 ROUTE PIPE DOWN WALL
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- 7 ROUTE PIPE ON INSIDE OF CMU WALL IN CHASE AREA.



PLUMBING SANITARY RISER - BLDG A

SCALE: NTS

SPECIFICATIONS

Notes:

1. 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
2. Unit weight - w/ cast iron cover: 148 lbs. (For wet weight add 542 lbs.)
3. Maximum operating temperature: 150° F continuous
4. Capacities - Liquid: 65 gal.; Grease: 439.5 lbs. (60 gal.) @50GPM Grease: 287.2 lbs. (43 gal.) @75GPM Solids: 13 gal.
5. For gravity drainage applications only.
6. Do not use for pressure applications.
7. Cover placement allows full access to tank for proper maintenance.
8. Vent not required unless per local code.
9. Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
10. Integral air relief / Anti-siphon / Sampling access.
11. Adjustable cover adapters provide up to 4" of additional height.
12. Designed for below-grade, above-grade, indoor or outdoor installations.
13. Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

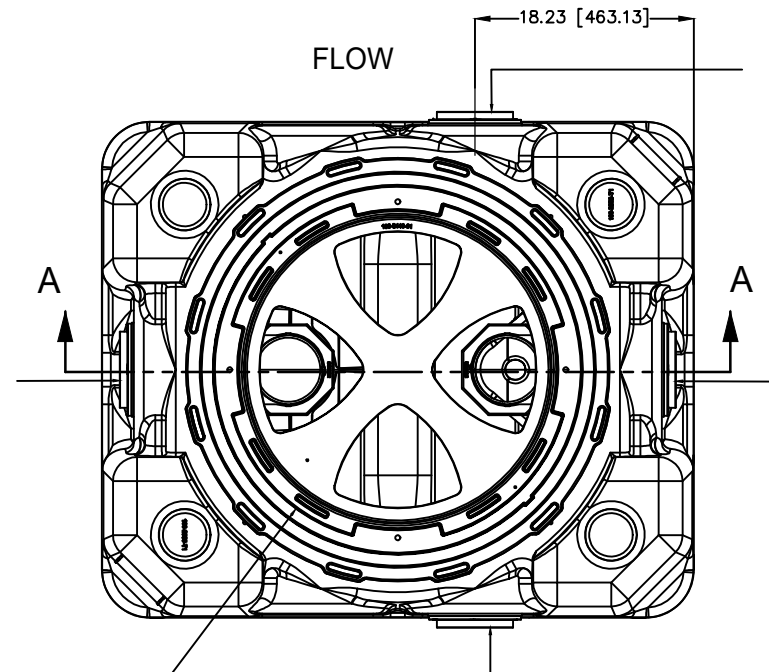
ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-50 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 50 GPM or 75 GPM. Interceptor grease capacity shall be 439.5 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

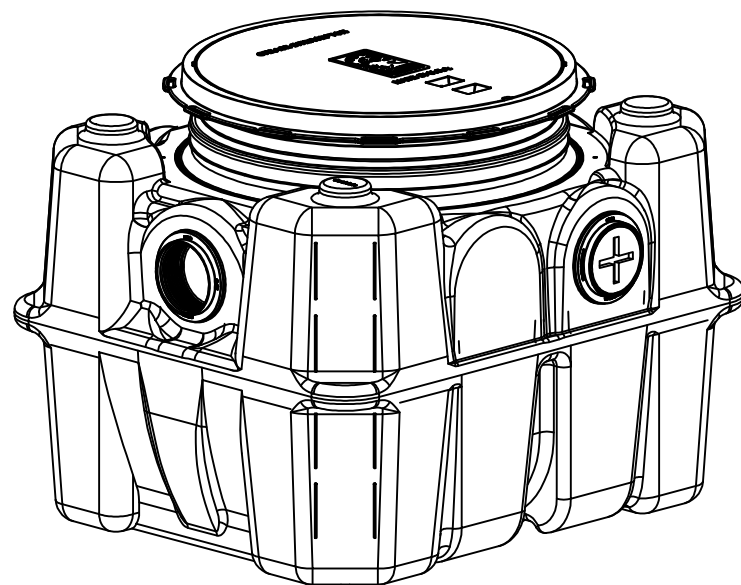
CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

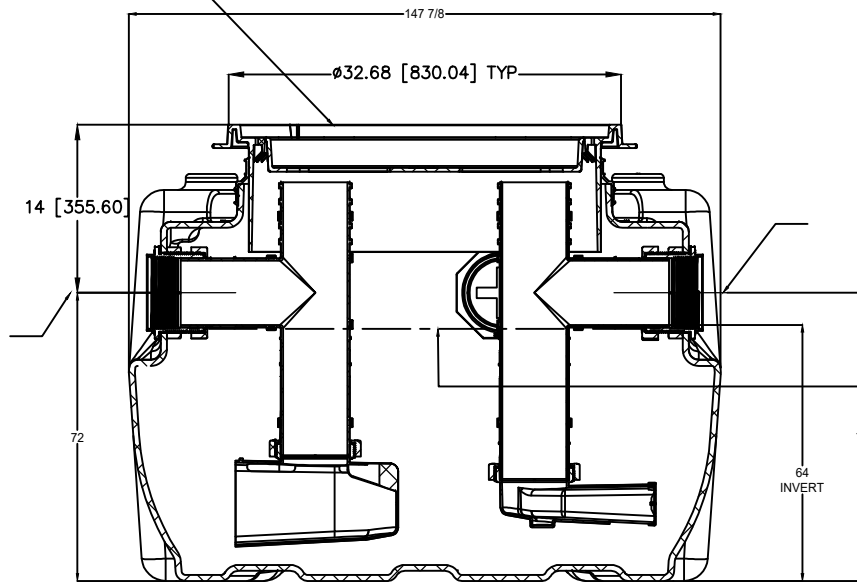
Type D certification does not require a flow control



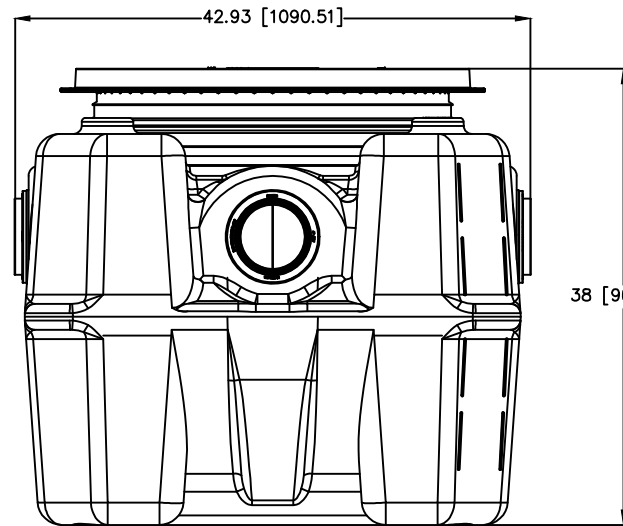
TOP VIEW  
(COVER REMOVED FOR CLARITY)



ISOMETRIC VIEW



SECTION A-A



END VIEW

SPECIFICATION SHEET

MODEL NUMBER:

GB-50

PART NUMBER: 4025-009-01

DESCRIPTION:

GB-50 GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVER

CD  
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4639 Gulf Starr Drive  
Destin, Florida 32541  
Tel: 850.837.4664  
Fax: 850.654.2000

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a complete engineering & construction management company  
FCM  
4639 GULF STARR DRIVE  
DESTIN, FLORIDA 32541  
PHONE: (850) 837-7454 (ENGR.)  
TELEPHONE: (850) 837-7456 (INSP.)  
FAX: (850) 654-2000  
Email: edmund@fcmanet.com  
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DATE  
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PROJECT:  
HELEN MCCALL PARK  
10 ACRE EXPANSION

WALTON COUNTY, FLORIDA

SHEET TITLE:  
PLUMBING  
RISERS  
SHEET SCALE: SEE PLAN

JOB No.: 2506  
DATE: 10/03/25  
DRAWN BY: RPW  
CHECKED BY: RPW

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