

NEW WAREHOUSE
FLEXSPACE F2 - SHELL ONLY
FABRICATION ROW
COVINGTON, LA

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CODE INFORMATION

PROJECT DESCRIPTION - NEW 10,000 SF WAREHOUSE SHELL ONLY
S-2 OCCUPANCY
TYPES OF CONSTRUCTION IBC CHAPTER 6
TYPE OF CONSTRUCTION II B UNPROTECTED, NONSPRINKLED

FIRE RESISTANCE RATING:
STRUCTURAL FRAME 0 HOURS
ROOF CONSTRUCTION 0 HOURS
EXTERIOR WALLS 0 HOURS

Allowable Ht. (504.3) S-2 , Type II , B 55' Building Ht. =26'-6"
Allowable Stories (Table 504.4) 1 Story Building

From Table 506.2 Allowable Building Area, Non Sprinkled
S2 =26,000 SF

DESIGN CRITERIA

- 2015 INTERNATIONAL BUILDING CODE
- 2015 NFPA 101
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2014 NATIONAL ELECTRIC CODE

STRUCTURAL CRITERIA

Wind loading - 2012 IBC/ ASCE 7-10, Vult = 135 MPH, Vasd = 107 MPH
Enclosed Building
Exposure B (1609.4)
Category II (Ibc 1604.5)
Wind Importance Factor = 1.0
Internal Pressure Coefficient = +/- .18
Main Wind Resisting System - Rigid Frame (metal building with bents @ 30' (+/-) o.c.
Building frame and components designed based on loads from ASCE 7- 10
Floor live Loads - 100 psf
Floor dead load - 10 psf
Roof live loads = 20 psf
Snow Load = 5 psf
Components and Cladding Load = 50 psf

SEISMIC

Site Class D
Risk Category II
Ss = .11
S1 = .056
I = 1.00
Design Category A

Design Load Bearing of Soils - 1500 PSF

Flood Zone - X TOP OF SLAB - 39.0'
Base Flood Elevation - None

General Notes:

1. Thresholds shall be no more than ½" in height and shall be beveled if more than ¼". All ground and floor surfaces shall be non-slip.
2. Dimensions are to the centerline or face of studs, center line of columns, or face of vinyl.
3. Contractor to verify all site conditions and building location prior to construction.
4. Materials shall be new and U.L. listed.
5. No work shall be concealed until approved by local inspectors.
6. Construction shall comply with all parish, state and local codes.
7. Contractor to guarantee work for one year.
8. Notify District Fire Inspectorfor all completed fire walls before any construction that would conceal the fire walls.
9. Provide detailed cut sheets of the fire penetration sealing product to the inspector.
10. LIGHTING @ EXTERIOR DOORS
NFPA 101:12.2.8 and IBC 1006 Provide illumination of means of egress in accordance with 101:7.8 and IBC 1006, including exit discharge (EXTERIOR).

NFPA 101:12.2.9 and IBC 1006.3 & 1006.4 Provide emergency lighting according to 101:7.9 and IBC 1006, including exit discharge (EXTERIOR).

11. EXTERIOR DOORS
NFPA 101:7.2.1.3 and IBC 1008.1.5 through 1008.1.7 Provide level landings outside exterior doors that are within 1/2" of the interior finish floor elevation.

12. NFPA 101:7.2.1.5 and IBC 1008.1.9 Locks on doors in means of egress shall not require the use of a key, special device or special knowledge to open in the direction of egress.

13. ADA RESTROOMS AND SINKS (with ADA Accessibility Guidelines Sections Referenced)
Provide a clearance around the water closet that complies with Figure 604.3.1. (NOTE: As per 604.3.2 No other fixtures or obstructions shall be located within the required water closet clearance.)

- 606.1 Lavatories in toilet rooms and breakroom/conference room sinks shall comply with the following:
1. 606.2 Provide a clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.
 2. 606.3 Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches maximum above the finish floor or ground.
 3. 606.4 and 309 Controls for faucets shall not require tight grasping, pinching, or twisting of the wrist.
 4. 606.5 Water supply and drain pipes shall be insulated or covered.

404.2.7 Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Hardware shall not require tight grasping, tight pinching, or twisting of the wrist to operate.

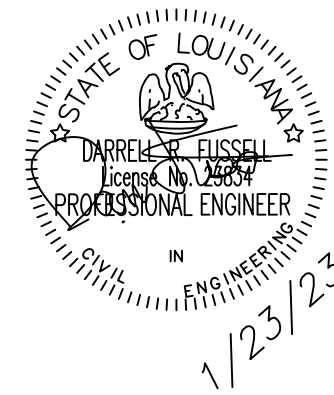
213.1 ALL toilet rooms and bathing rooms shall be accessible and in compliance with Chapter 6.

ENGINEERED METAL BUILDING SHOP DRAWINGS WITH LOUISIANA
LICENSED ENGINEER STAMP TO BE PROVIDED TO ARROW
ENGINEERING PRIOR TO CONSTRUCTION



SITE

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AS PER REVIEW LETTER
BY ARROW ARCHITECT



14. DOORS
NFPA 101:7.2.1.5.9 and IBC 1008.1.9.4 through 1008.1.9.5 Doors shall be operable with ONLY one releasing operation. A two-step release, such as a knob and an independent slide bolt, is NOT acceptable.

15. INSULATION
LAC 55:305 Insulation and insulation assemblies shall meet the requirements of Section 720, International Building Code, 2015 Edition.

- a) Concealed and exposed insulation shall have a flame spread of 0-25 and a smoke developed of 0-450 in accordance with IBC 719.
- b) Cellulose fiber thermal insulation shall meet the requirements of paragraph IBC 719.
- c) Foam plastic insulation shall meet the requirements of IBC 719.
- d) Thermal barriers shall protect foam plastic insulation in accordance with IBC 2603.4.
- e) Ignition barriers shall protect foam plastic insulation used in attics or crawl spaces where entry is made only for service of utilities in accordance with IBC 2603.4.1.6.

16. INTERIOR WALLS & CEILINGS - NFPA 101:38.3.3 Interior walls and ceilings shall have a flame spread of 0-200 and a smoke development rating of 0-450.

17. UTILITIES NFPA 101:38.5.1 Utilities shall comply with the provisions of Section 9.1.

18. HVAC - HVAC system shall be constructed in accordance with NFPA 101:9.2.

19. ELECTRICAL WORK - Compliance with the 2011 NFPA 70, National Electrical Code (NEC), is mandated by RS 40:1730.28.A(7). Contact the local Building Official of the applicable local political subdivision or a Louisiana State Uniform Construction Code Council registered third-party provider to verify plan review and inspection requirements of the proposed electrical work.

20. FIRE EXTINGUISHERS
NFPA 10:6.2.1.2 Provide portable fire extinguishers within the following travel distances; rectilinear route measure:

a) Travel distance to a fire extinguisher shall not exceed 75 feet for Class A, C and D fires. See Table 10:6.2.1.1 and NFPA 10:6.4 and 10:6.5.

b) Travel distance to a fire extinguisher shall not exceed 30 feet for Class B fires (liquids). (May be increased to 50 feet for Light (low) Hazard fires with 10-B extinguisher, for Ordinary (moderate) Hazard fires with 20-B extinguisher, and for Extra (high) Hazard fires with 80-B extinguisher). See Table 10:6.3.1.1.

For classification of Hazards see NFPA 10:5.4.1.1 (Light/Low), 10:5.4.1.2 (Ordinary/Moderate); 10:5.4.1.3 (Extra/High).

NFPA 10:6.1.3.3.1 Fire extinguishers shall not be obstructed or obscured from view.

NFPA 10:6.1.3.1 Fire extinguishers shall be conspicuously located where they will be readily accessible and immediately available in the event of fire. Preferably they shall be located along normal paths of travel, including exits from areas.

NFPA 10:6.1.3.8 Top of fire extinguisher, having a gross weight less than 40 lb., shall be not more than 5 feet above the floor; if gross weight 40 lbs. or greater, 3-1/2 feet above the floor.

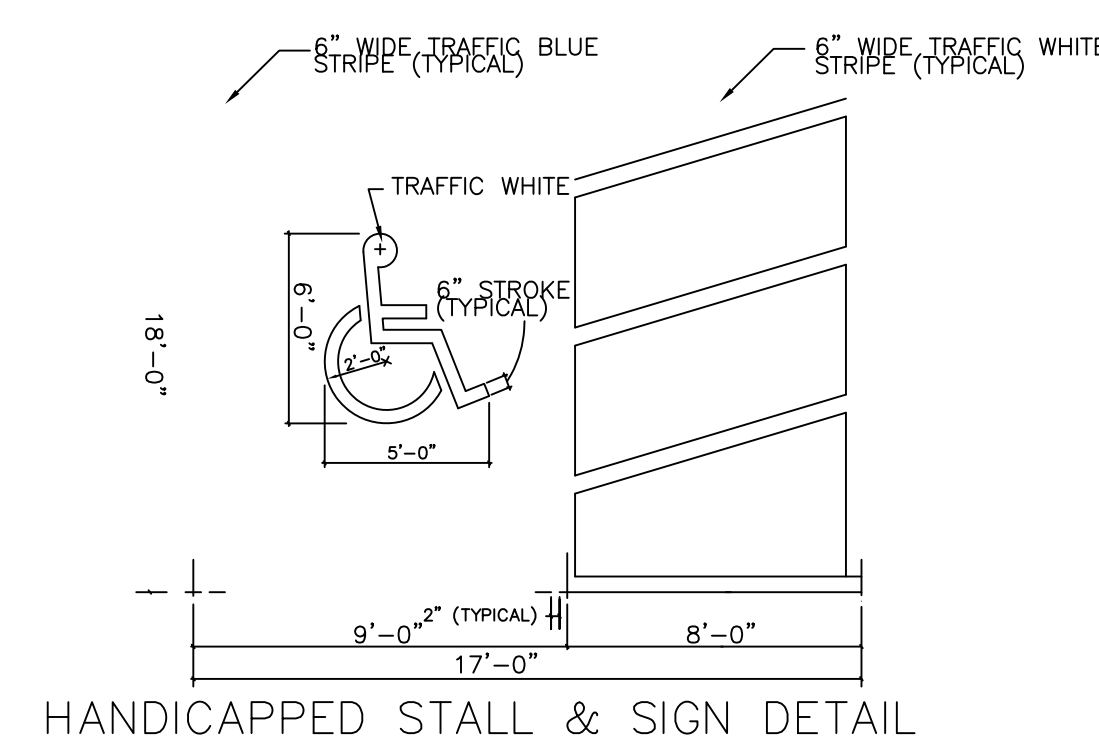
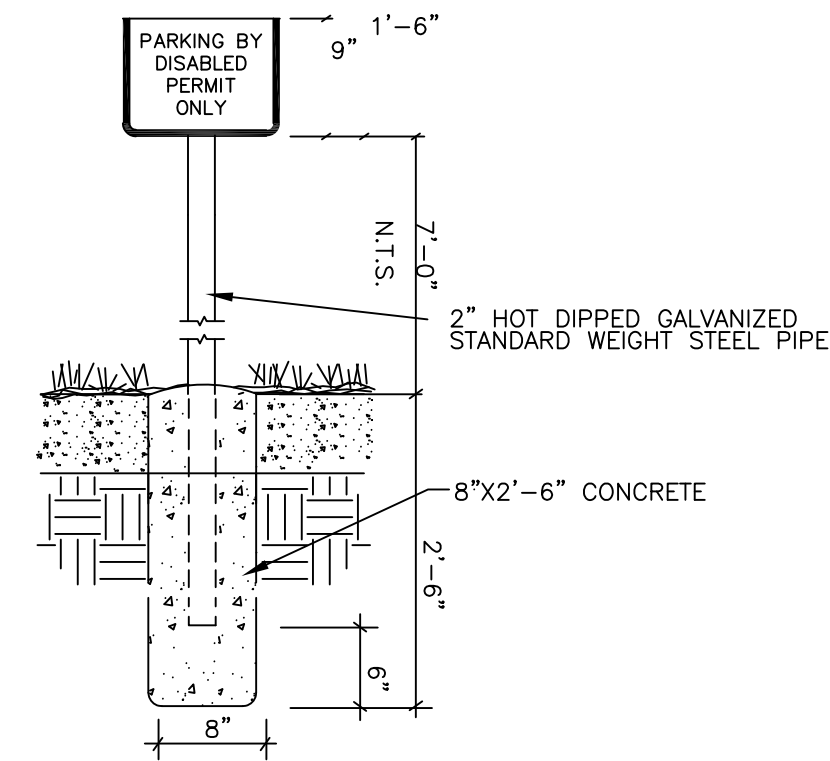
MEANS OF EGRESS NOTES:
1. (1003.4 FLOOR SURFACE)
WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP RESISTANT SURFACE AND BE SECURELY ATTACHED.
2. (1003.5 ELEVATION CHANGE)
WHERE CHANGES IN ELEVATION OF LESS THAN 12 INCHES (305 mm) EXIST IN THE MEANS OF EGRESS, SLOPED SURFACES SHALL BE USED.
3. (1006.1 ILLUMINATION REQUIRED)
THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
4. (1006.2 ILLUMINATION LEVEL.)
THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOTCANDLE (11 LUX) AT THE WALKING SURFACE.
5. (1006.3 EMERGENCY POWER FOR ILLUMINATION)
THE POWER SUPPLY FOR THE MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY.
6. 1008.1.5 (FLOOR ELEVATION)
THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR.SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVAITON ON EACH SIDE OF THE DOOR.
LANDING SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE.)
7. (1008.1.6 LANDINGS AT DOORS.)
LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIRWAY ON THE DOOR, WHICHEVER IS GREATER.
8. (1008.1.7 THRESHOLDS.)
THRESHOLDS AT DOORWAYS SHALL NOT EXCEED ¼ INCH (12.7 mm) ABOVE THE FINISHED FLOOR LANDING. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN ¼ INCH (6.4 mm) AT DOORWAYS SHALL BE BEVELED.

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- LIGHTING SHALL BE 100 WATT LED FIXTURES ON THE EXTERIOR BUILDING WALLS 20' ABOVE GRADE.
- THE LIGHTING SHALL PROVIDE TOTAL FOOTCANDLES MEASURED AT THREE FEET ABOVE GROUND LEVEL NOT EXCEED TWO FOOTCANDLES AT THE PROPERTY LINE.
- LIGHTING FIXTURES WILL BE "FULLY SHIELDED" AS DEFINED IN SEC. 130-2055 OF THE UNIFIED DEVELOPMENT CODE.



REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: JULIE LITTLE ARCHITECT

EXIST

AIRPORT R

EXIST. DITCH

EXIST 24" RCP

EXIST C.B.
T.C. = 38.28
INV. = 32.78

C.L. 38.00

FABRICATION ROW

C.L. 37.83
EXIST. 24" RCPA
L = 50' W.INV. = 34.50
F. INV. = 34.17

37.50 EXIST. 24" CMP
L = 60' W. INV. = 34.08
E. INV. = 33.40

EXIST 24" RCP
EXIST C.B.
T.C. = 37.21
INV. = 33.20

1. REMOVE TOP SOIL (8" TO 12")
2. PROOF ROLL EXCAVATED AREA WITH LOADED DUMP TRUCK. REMOVE PUMPING AREAS AND REPLACE WITH COMPACTED FILL
3. PLACE FILL DIRT (A-4) MATERIAL OR BETTER IN 8" LIFTS COMPACTED TO 95% MAX. DENSITY. CONFIRM W/TESTING.

LEGEND

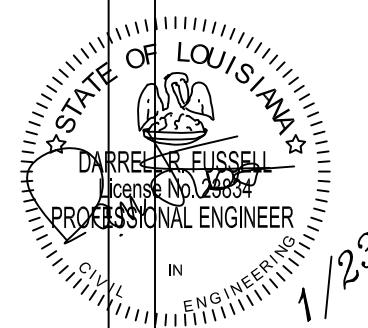
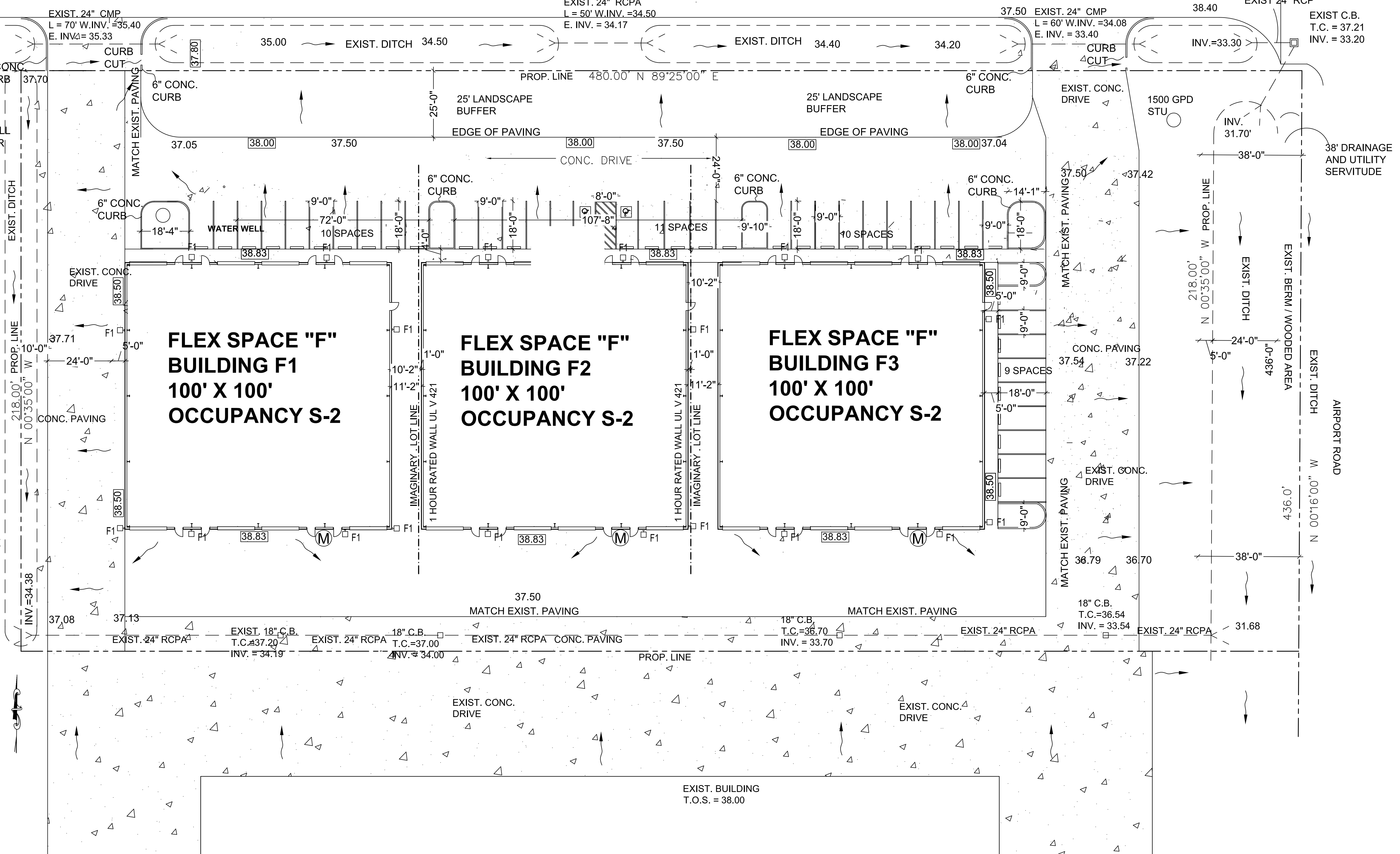
37.80 EXISTING GRADE
38.50 PROPOSED GRADE
 DIRECTION OF FLOW
 EXISTING CONCRETE PAVING
 PROPOSED CONCRETE PAVING
 CONC. PARKING BUMPER

PROPOSED LOCATION FOR
ELECTRIC METER BANK
ELEC. SERVICE FROM
EXIST. TRANSFORMER
(SEE ELECTRICAL PLAN
FOR NOTES)

1. DESIGN BASED ON A-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D-1557). FILL PLACED @ 8" MAX. LIFTS.
2. ALL CONCRETE SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH @ 28 DAYS. PLACE CONCRETE W/MAXIMUM SLUMP OF 6". PROVIDE SLUMP TEST AND CYLINDERS AT BEGINNING AND MIDPOINT OF POUR.
3. GRADE 60 DEFORMED REINFORCING.
4. ASTM-185 WWF REINFORCING.
5. APPLY A LIQUID MEMBRANE CURING CHEMICAL TO ALL CONCRETE SURFACES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. W.R. GRACE PRODUCT OR EQUAL.

SITE DRAINAGE PLAN

SCALE: 1" = 20'-0"



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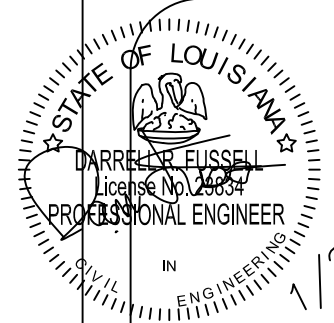
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C1

Issue	Description	Date
A	FOR SFM SUBMITTAL	1-23-23

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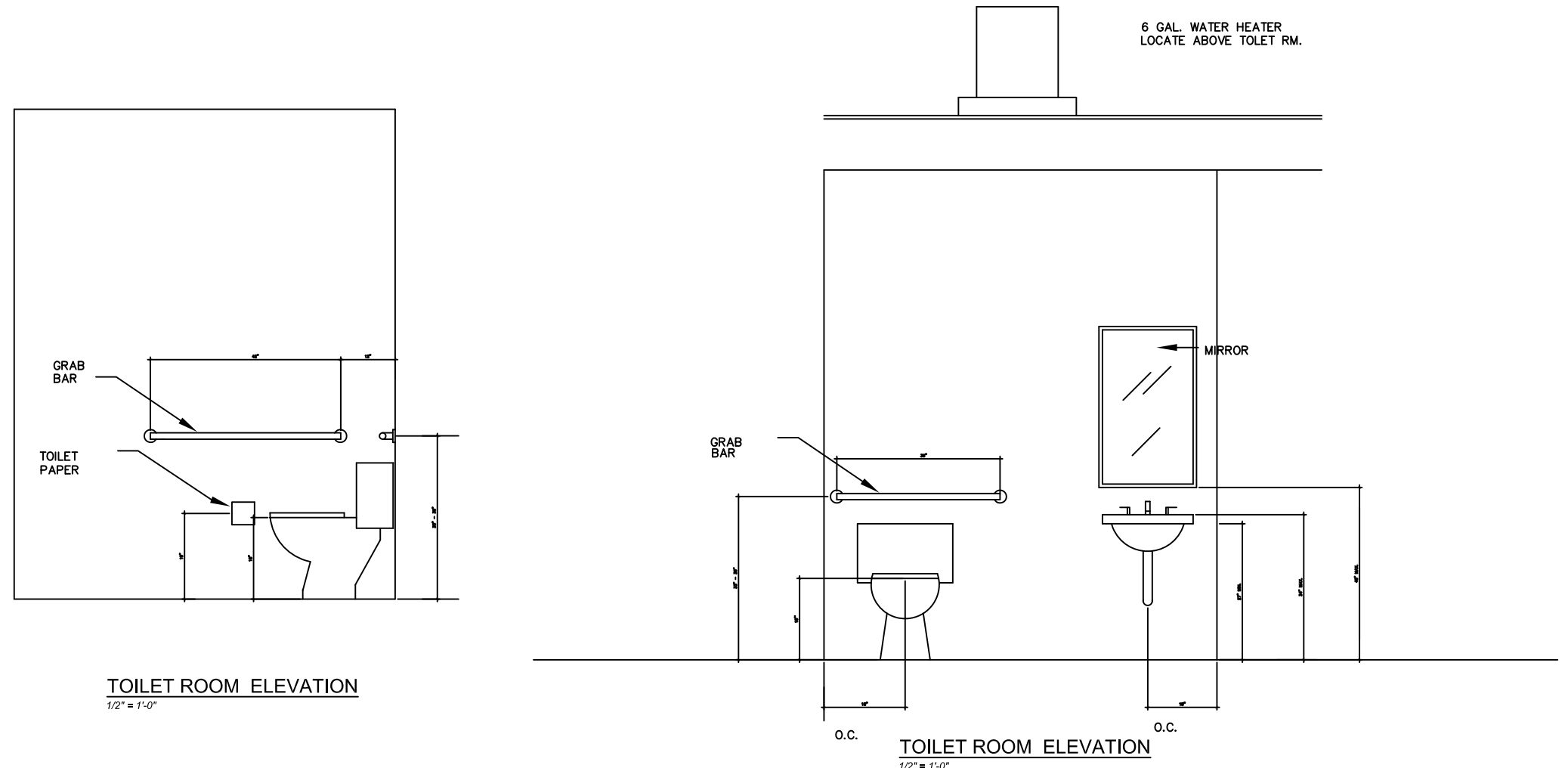
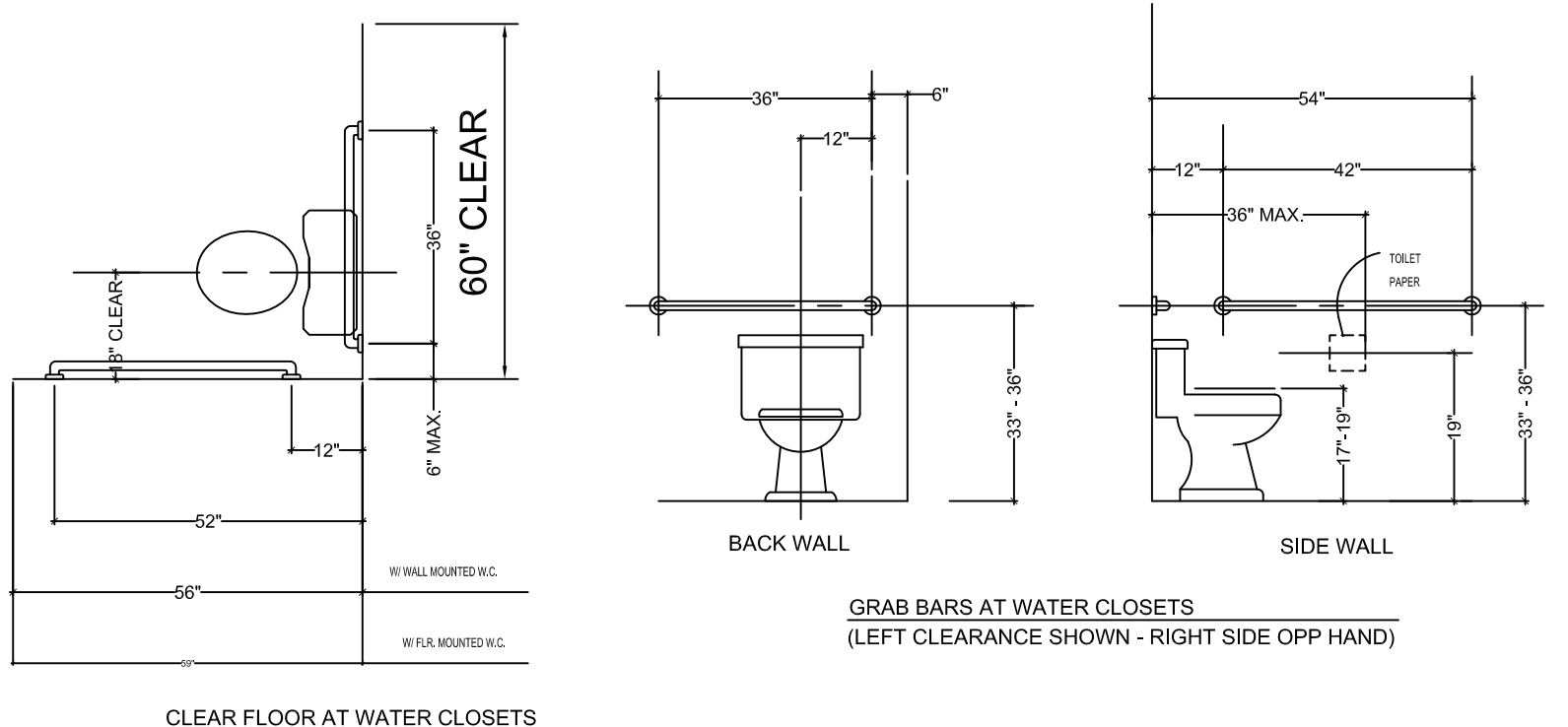
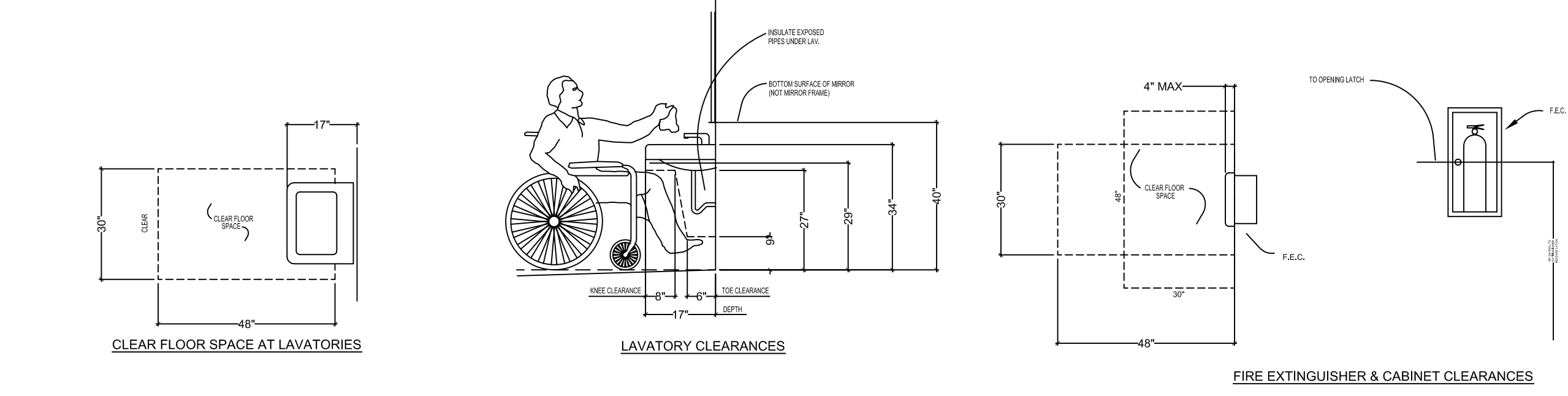
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12-29-22

Description
For SFM Submittal

Issue
A

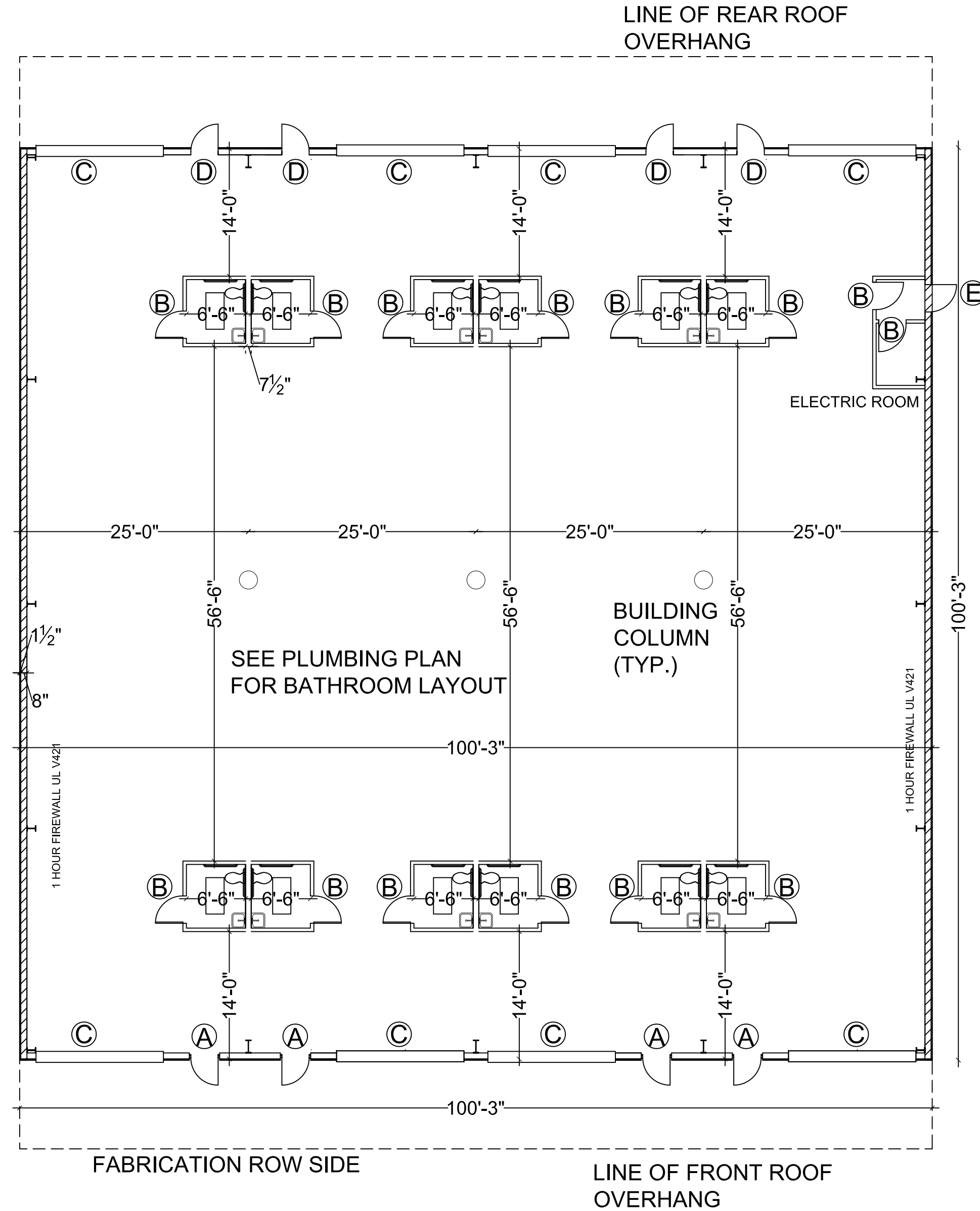
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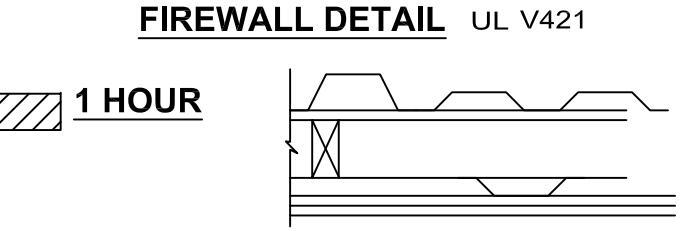
ACCESSIBILITY REQUIREMENTS

DOOR SCHEDULE				
Ⓐ	3'-0" x 7'-0"	GLASS	EXTERIOR	LEVER LOCK, INSIDE ALWAYS OPEN
Ⓑ	3'-0" x 7'-0"	WOOD	INTERIOR	LEVER LOCK
Ⓒ	14'-0" x 12'-0"		ROLL UP	KEY LOCK
Ⓓ	3'-0" x 7'-0"	METAL	EXTERIOR	LEVER LOCK
Ⓔ	3'-0" x 7'-0"	METAL	EXTERIOR 60 MIN	LEVER LOCK



FLOOR PLAN

SCALE: 3/32" = 1'-0"

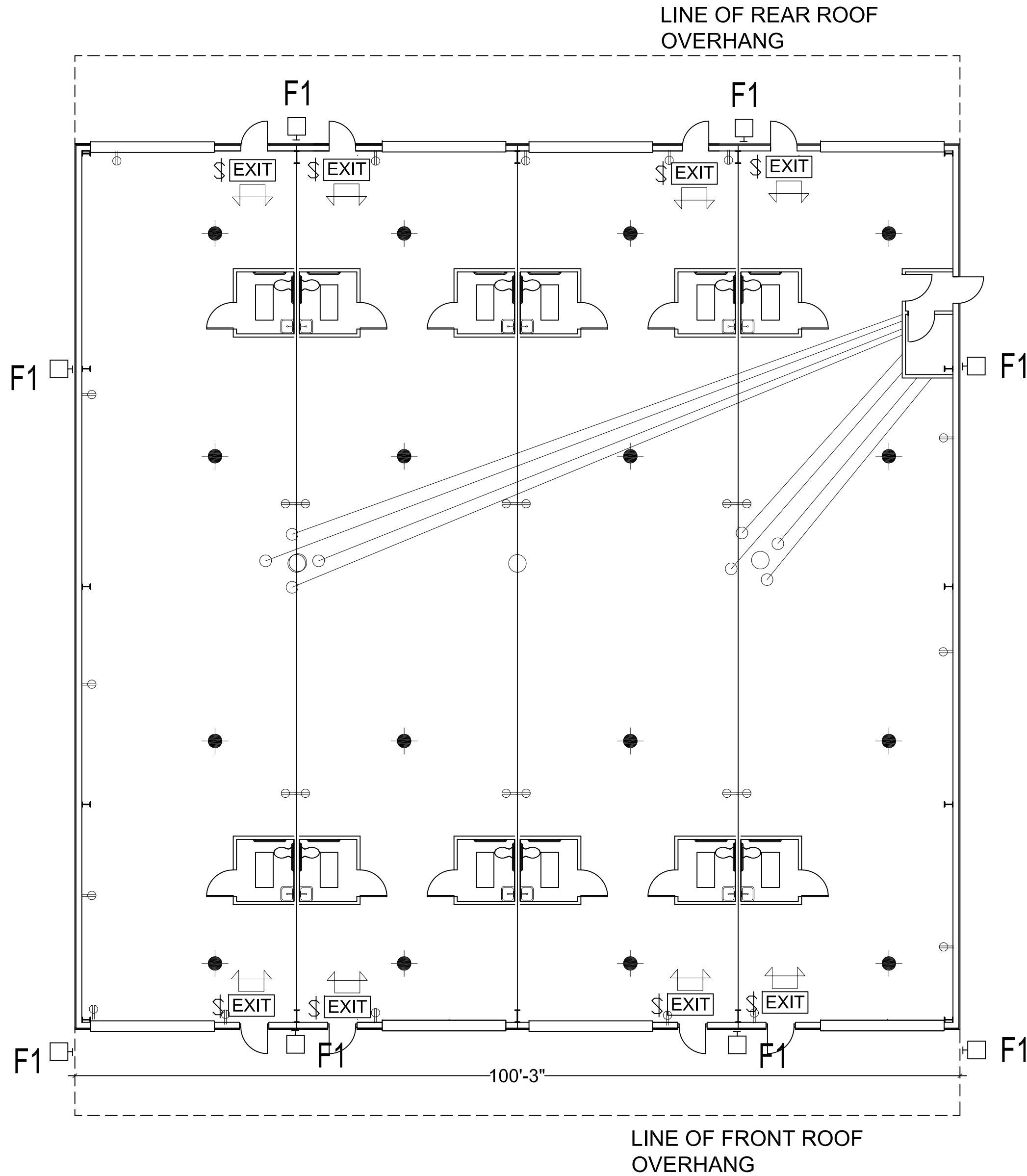


EXTERIOR GYPSUM BOARD: 1 LAYERS 5/8 IN. THICK GYPSUM BOARD APPLIED HORIZONTALLY OR VERTICALLY TO METAL BUILDING PURLINS, PURLINS SPACED AT 48" O.C. ATTACH BOARD TO PURLINS WITH 1.25" TYPE S-12 SCREWS @ 24" O.C.

FACE: METAL BUILDING PANELS

INTERIOR GYPSUM BOARD: 2 LAYERS 5/8 IN. THICK GYPSUM BOARD APPLIED HORIZONTALLY OR VERTICALLY TO 3/4" FURRING CHANNELS @ 24" O.C.

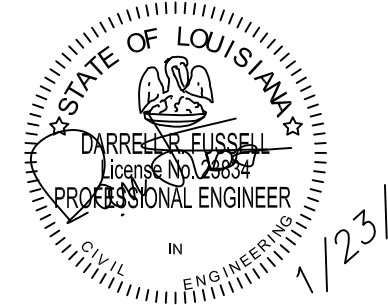
ELEC. FIXTURE DESCRIPTION		
MARK	ELEC.	DESCRIPTION
	120V	LITHONIA C-2-32-120-GEB-WG 2 -32W T8 LAMPS, 4' STRIP
	120V	LED FIXTURE
	120V	EMERGENCY LIGHTING, TWO BULB 7.2 WATTS WITH RECHARGABLE BATTERY, 90 MINUTE DURATION
	120V	LIGHTED EXIT SIGN - INCADESCENT TWO LAMP 20 WATT - 6" RED LETTERS
	120V	OUTLET
	120V	SWITCH
	120V	40-WATT, 2000 LUMEN MAX., METAL HALIDE EXTERIOR LIGHT W/ BATTERY PACK



UNDERGROUND SECONDARY ELECTRICAL SERVICE ENTRANCE

- 5-4" SCH. 80 CONDUITS FOR POWER
- 1-2" SCH 80 CONDUIT FOR CABLE TV
- 1-2" SCH. 80 CONDUIT FOR TELEPHONE
- (2" CONDUITS IN A SEPARATE TRENCH LOCATED 3 FEET FROM POWER CONDUIT TRENCH.)

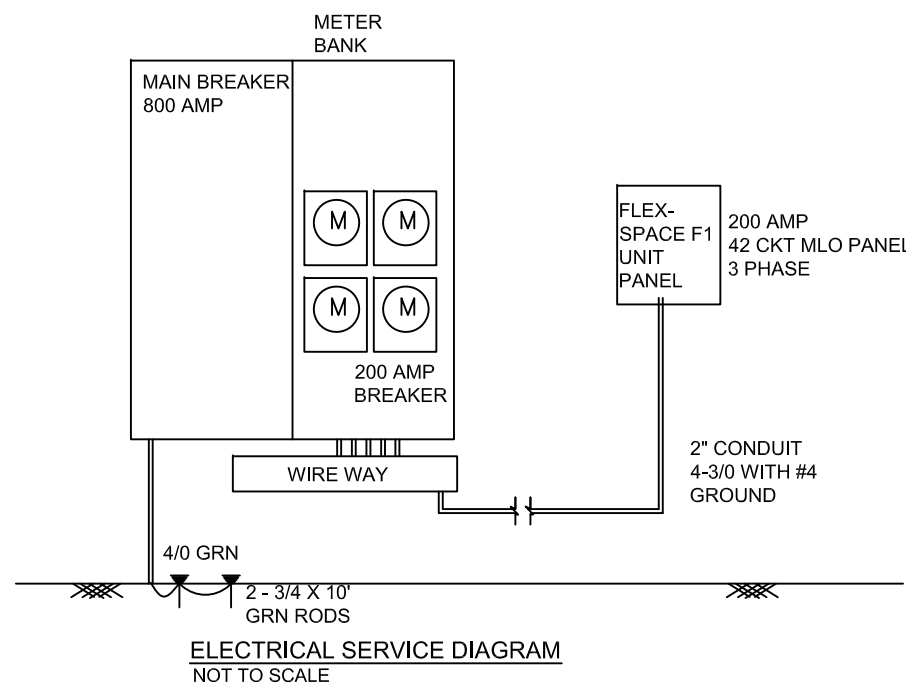
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FABRICATION ROW SIDE

ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"



2014 National Electrical Code:

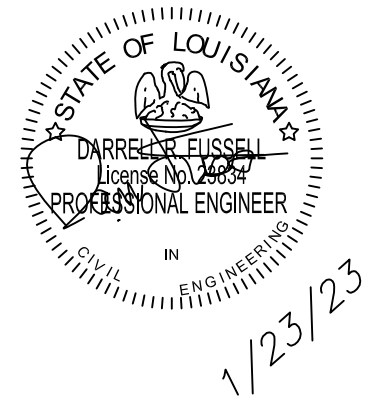
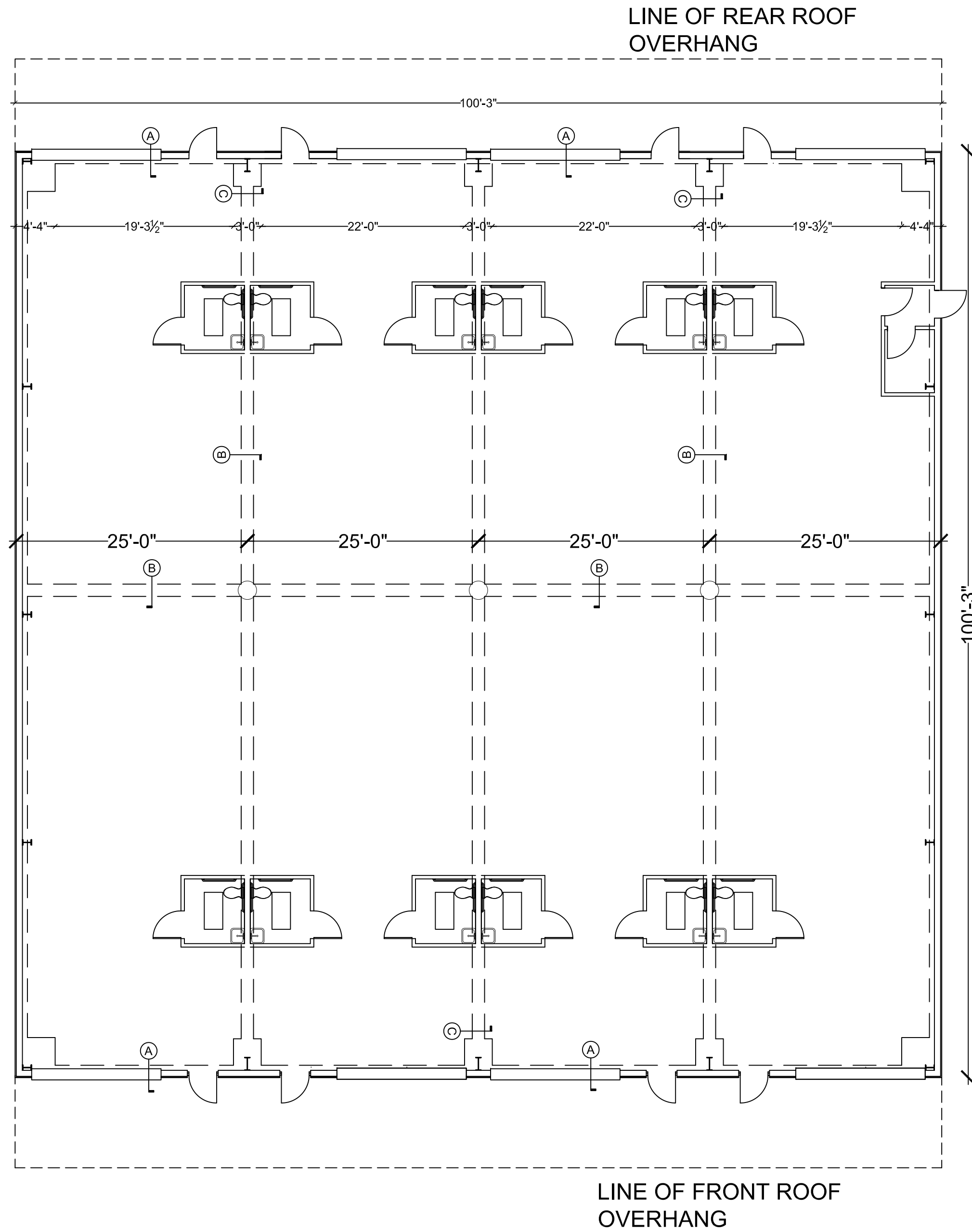
- Electrical work must be in compliance with the 2014 National Electrical Code.
- Sufficient access and working space shall be provided and maintained about all electrical equipment to permit ready and safe operation and maintenance of the equipment as per the National Electrical Code Art. 110-26.
- Bonding of piping systems and exposed structural steel is required for metal water piping, metal gas piping, other metal piping that may become energized and structural steel, as per The National Electrical Code section 250-104.
- GFCI protection must be provided for receptacles located in bathrooms, rooftops, and for outdoor receptacles as per NEC section 210.8 (B).
* Receptacle for the water fountains must also be GFCI protected.
- * Receptacles shall be not less than 6 ft. from the inside walls of the immersion pool. As per NEC, Section 680.22, Lighting, Receptacles, and Equipment, (2) Other Receptacles, Location.
- * All 15- and 20-ampere, single-phase, 125-volt receptacles located within 20 ft. of the inside walls of the immersion pool shall be protected by a ground-fault circuit interrupter. As per NEC, Section 680.22, Lighting, Receptacles, and Equipment, (4) GFCI Protection.
- * A 125 volt, single phase 15 or 20 amp. rated receptacle outlet must be installed at an accessible location for the servicing of any heating and air conditioning equipment (condensers) on the same level, within 25 feet of the equipment as per the National Electrical Code art. 210-63.
- Each means of disconnect shall be legibly marked to indicate its purpose unless located and arranged so the purpose is evident as per NEC section 110.22.
- Every circuit and circuit modification, for switch and panel boards, must be legibly identified as to its clear, evident, and specific purpose or use. As per NEC section 408.4.
- Motor disconnects in sight of equipment must be provided as indicated in NEC article 430 IX.

- A means to disconnect each appliance from all un-grounded conductors must be provided in accordance with NEC article 422 III.
- Listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling. As per NEC, section 110.3 (B).
- Fixtures shall be supported in accordance with section NEC 410.36.
- Framing members of suspended ceiling systems used to support fixtures shall be securely fastened to each other and shall be securely fastened to the building structure at appropriate intervals. Fixtures shall be securely fastened to the ceiling framing members by mechanical means such as bolts, screws, or rivets. Listed clips identified for use with the type of ceiling framing members and fixtures shall also be permitted. As per NEC section 410.36 (B).
- Where a branch circuit serves continuous loads or any combination of continuous and non-continuous loads, the minimum branch circuit conductor size, before the application of any adjustment or correction factors, shall have an allowable ampacity of not less than the non-continuous load plus 125 percent of the continuous load. As per NEC section 210.19 (A), (1).
- In damp or wet locations surface-type enclosures within the scope of this article shall be placed or equipped so as to prevent moisture or water from entering or accumulating within the cabinet or cutout box, and shall be mounted so that there is at least ¼ inch airspace between the enclosure and the wall or other supporting surface.
- Enclosures installed in wet locations shall be weatherproof (such as listed in NEMA 250-2003). For enclosures in wet locations, raceways or cables entering above the level of un-insulated live parts shall use fittings listed for wet locations. As per NEC section 312.2.
- All grounding electrodes as described in 250.52(A)(1) through (A)(7) that are present at each building or structure served (including a concrete encased electrode) shall be bonded together to form the grounding electrode system. The concrete encased electrode as described in NEC section 250.52(A)(3) must be used at each building electrical service.

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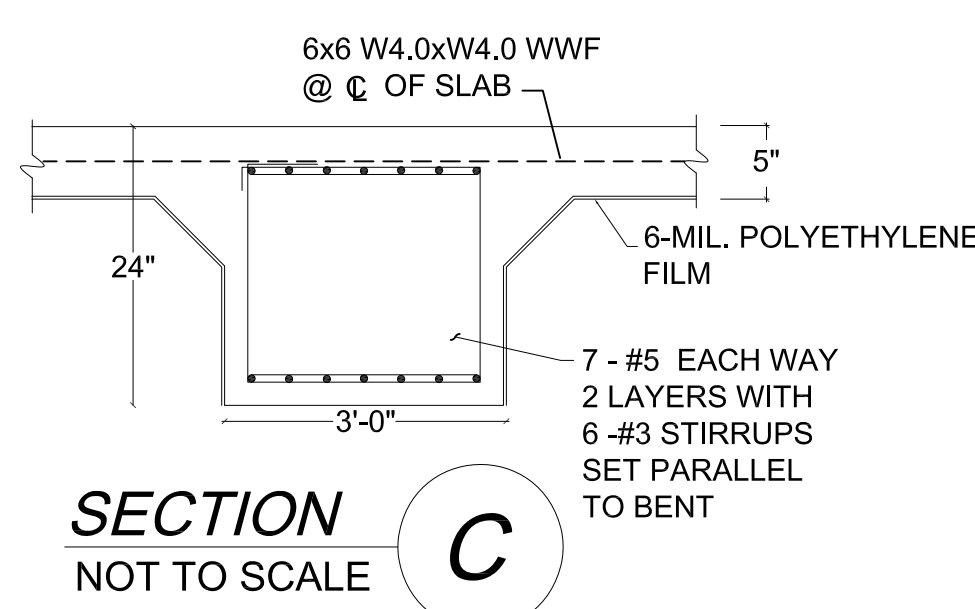
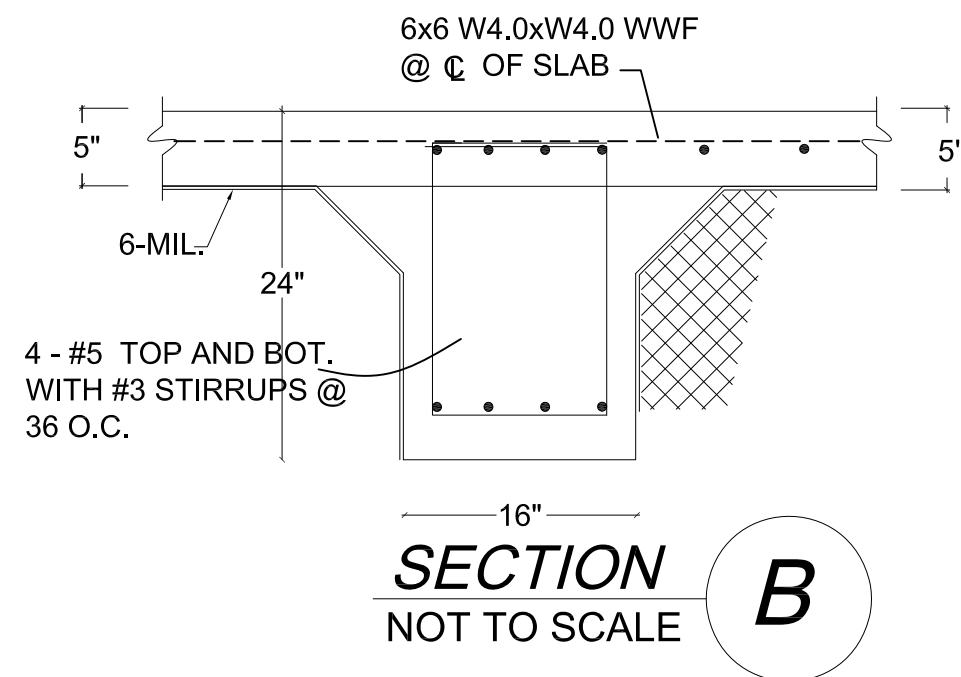
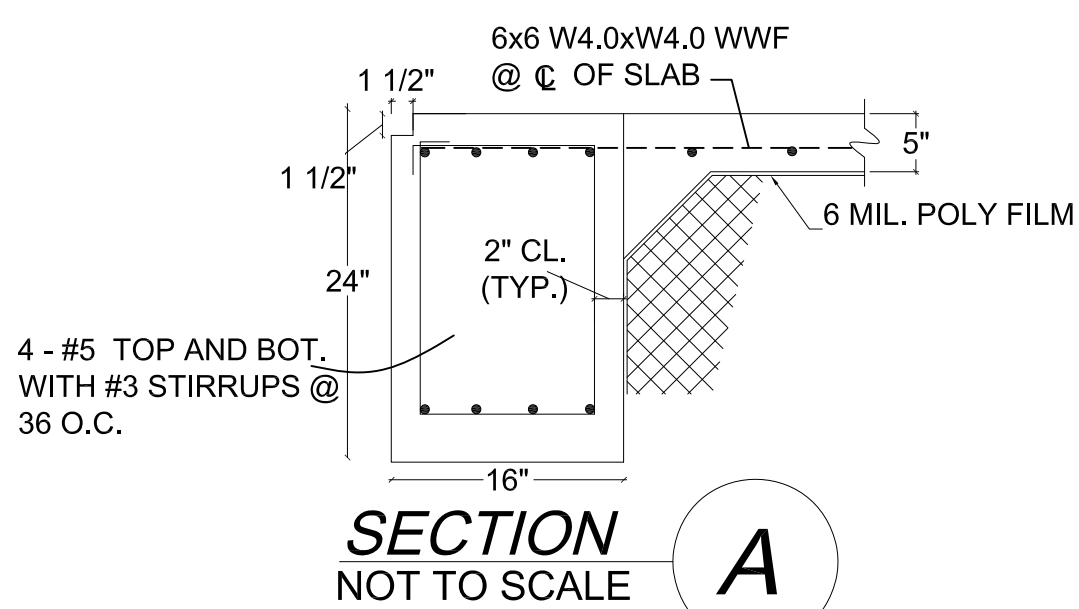
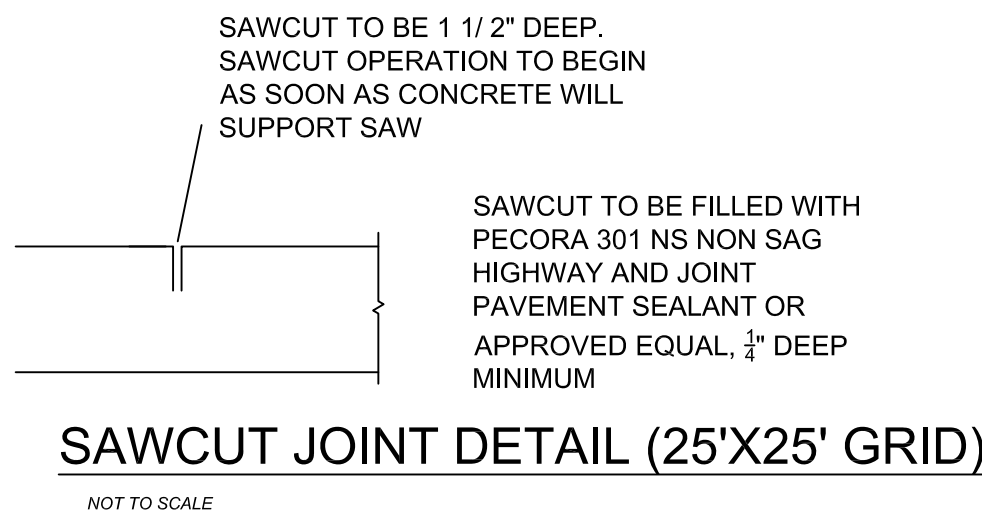
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FOUNDATION PLAN

SCALE: 1" = 10'



CONCRETE NOTES:

CONCRETE DESIGN IS BASED UPON CONCRETE MIX HAVING A MINIMUM 5.0 SACKS OF CEMENT PER CUBIC YARD AND A MAXIMUM OF 30 GALLONS OF FREE AND ADDED WATER PER CUBIC YARD.
POUR TO 5±1" SLUMP. SUCH A MIX SHOULD GIVE A MAXIMUM COMPRESSION STRENGTH OF 4000 P.S.I. AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH A.C.I. BUILDING CODE REQUIREMENTS (A.C.I. 318R-04)

FOUNDATION DESIGN BASED ON AN ALLOWABLE BEARING PRESSURE OF 1500 PSF AND A-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D-698). FILL PLACED @ 8" MAX. LIFTS. FILL SHALL EXTEND A MINIMUM OF 5' - 0" BEYOND THE PERIMETER OF THE FOUNDATION IN ALL DIRECTIONS.

ALL FORMWORK SHALL BE IN COMPLIANCE WITH A.C.I. 301.

RECESS AS REQUIRED FOR CERAMIC TILE, WOOD, AND BRICK FLOORS, MAINTAINING FULL SLAB AND GRADE BELOW DEPTH.

ALL CONVENTIONAL REINFORCING STEEL SHALL BE ASTM DESIGNATION A-165, GRADE 60 REINFORCING AND WIRE MESH SHALL MEET ASTM-185 WWF REINFORCING.

REINFORCING SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

REINFORCEMENT SHALL HAVE 3" COVER IN GRADE BEAM BOTTOMS, 2" COVER IN BEAM SIDES AND TOPS, 1 1/2" COVER IN SLAB TOPS AND BOTTOMS, UNLESS OTHERWISE SHOWN.

REBARS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE. USE CONCRETE BRICK SUPPORTS TO MAINTAIN REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.

25" LAP WITH 2 TIES REQUIRED AT REINFORCING SPLICES. 12" HOOK REQUIRED AT CORNERS

CURING COMPOUND TO BE PLACED ON SLAB IMMEDIATELY AFTER FINISH TO CONTROL SHRINKAGE CRACKING. PLACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. W.R. GRACE PRODUCT OR EQUAL

THE CONTRACTOR SHALL VERIFY ALL DROPS, SLOPES, RECESSES, BRICK SEATS, BLOCK-OUTS ON ARCHITECTURAL PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY EXIST.

COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, INSERTS, AND ANY OTHER RELATED ITEMS.

PLANS FOR PIPES CONDUITS, THIMBLES, ETC., TO PASS THROUGH CONCRETE SLAB OR BEAM, MUST NOT CONFLICT WITH REINFORCING. WHERE A CONFLICT OCCURS, REINFORCING LOCATION IS TO TAKE PRECEDENCE.

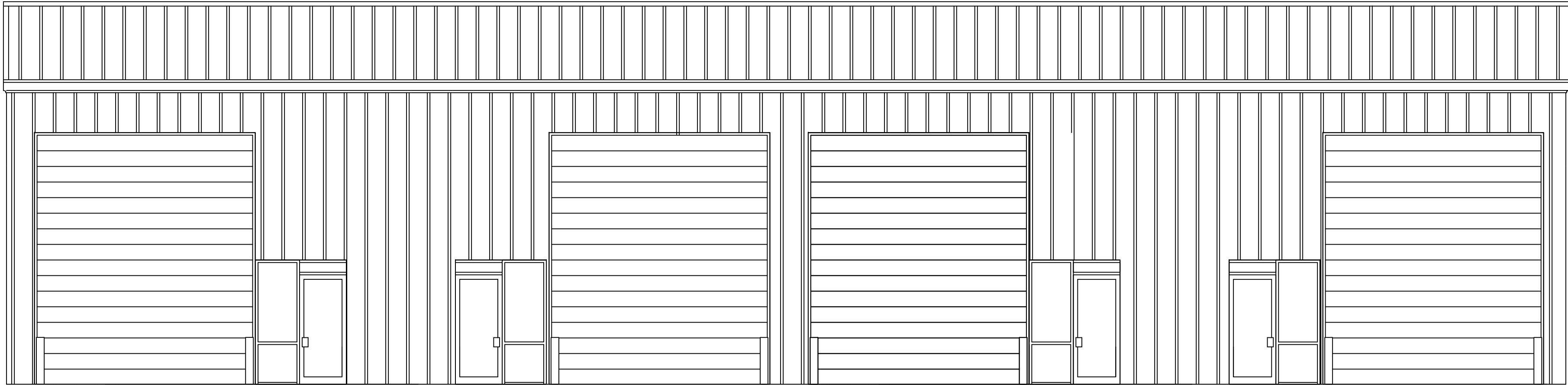
ALL SECTIONS SHOWN ARE THE SECTIONS AT MID-SPAN OF GRADE BEAMS UNLESS OTHERWISE SHOWN.

ALTERATION TO OR DEVIATION FROM THE INFORMATION SHOWN ON THIS SHEET WITHOUT ADVANCED APPROVAL FROM ARCHITECT/ENGINEER MAY VOID ARCHITECT/ENGINEER'S RESPONSIBILITY.

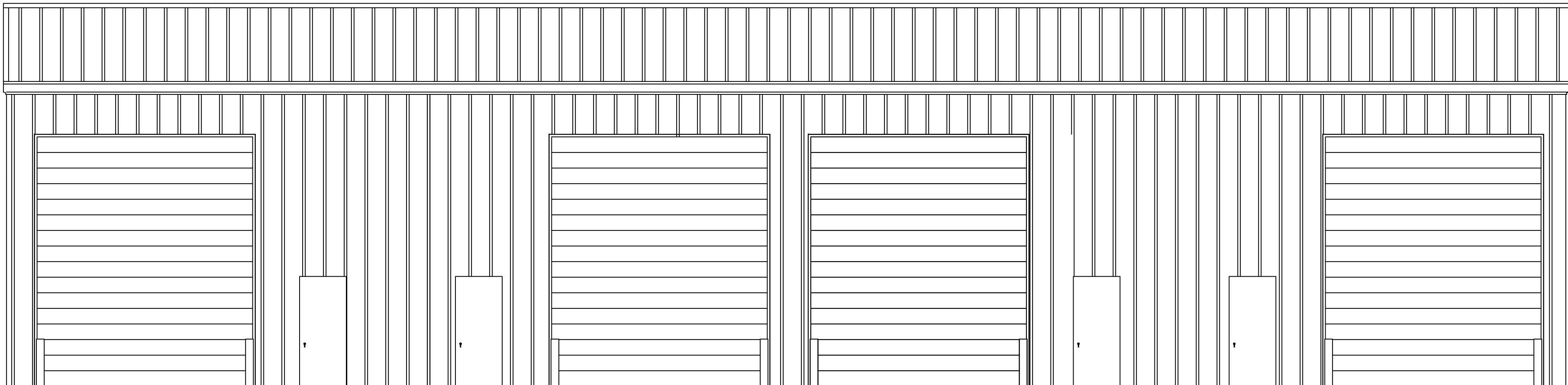
NEW WAREHOUSE
FLEXSPACE F2 - SHELL ONLY
18001 FABRICATION ROW
COVINGTON, LA

ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darfuss123@gmail.com

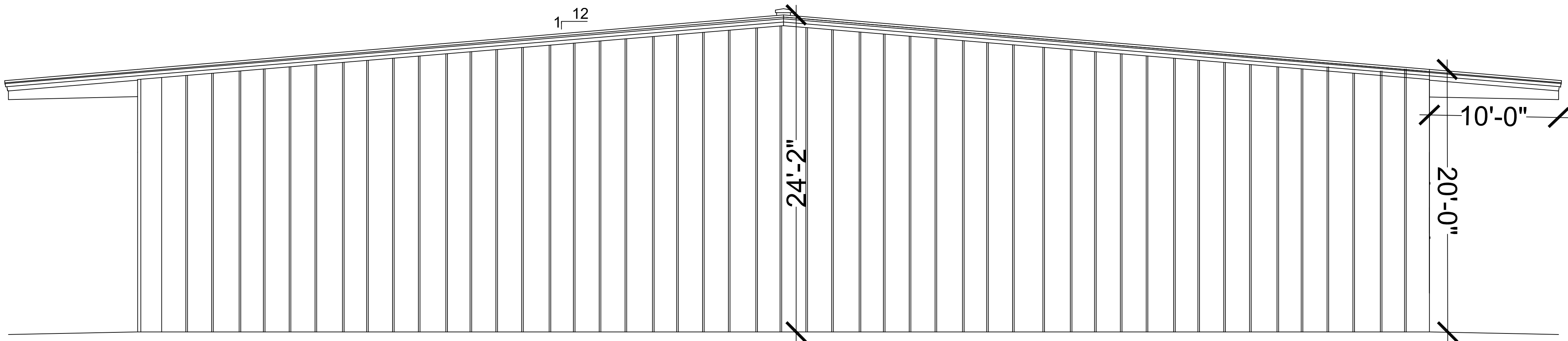
PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908



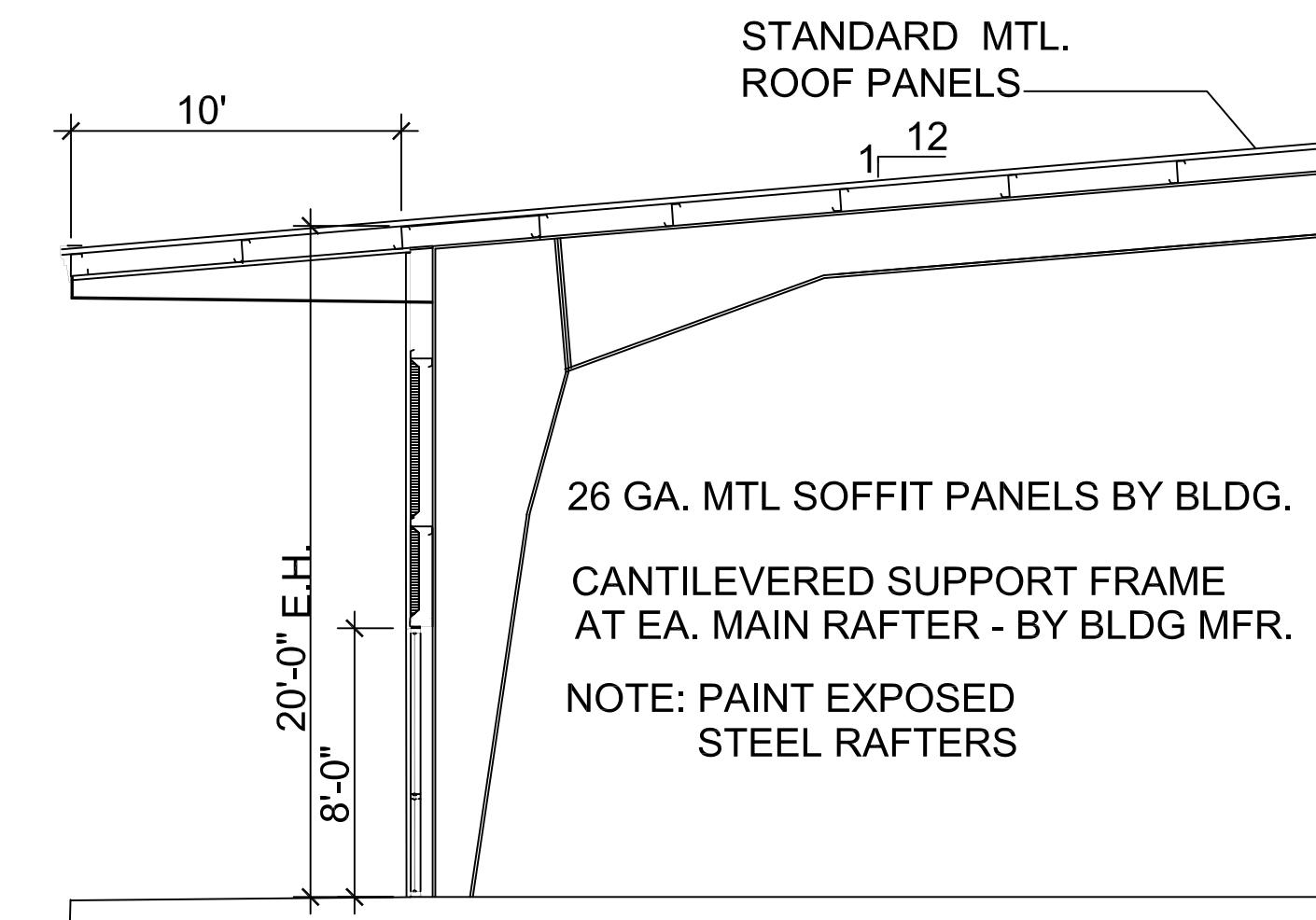
FRONT ELEVATION
SCALE : 3/16" = 1'-0"



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

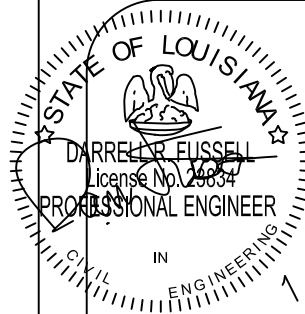


SIDE ELEVATION
SCALE : 3/16" = 1'-0"



SECTION
NOT TO SCALE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY ADRIAN T. ARCHITECT
AT



Issue	Description	Date
A	For SFM Review	1-23-23

NEW WAREHOUSE
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2015 INTERNATIONAL MECHANICAL CODE:

1. Number of plumbing fixtures required is to be determined by 2015 IMC
2. The water distribution system shall be protected against backflow in accordance with 2015 IMC.
3. Devices for the prevention of backflow or back siphoning shall comply with the standards listed in 2015 IMC.
4. Drainage, sewer, vent, water and other piping must be tested in accordance with 2015 IMC.
5. Soil piping must be supported in accordance with 2015 IMC.
6. Cleanouts in the drainage piping shall be located as listed in 2015 IMC.
7. Change in Direction. The following applies to the use of fittings in changes of direction of drainage piping.
 1. Changes in direction in drainage piping shall be made by the appropriate use of 45° (0.785 rad) wyes, longor-short-sweep quarter bends, one-sixth, one-eighth, or one sixteenth bends, or by a combination of these or equivalent fittings. Single and double sanitary tees and quarter bends may be used in drainage lines only where the direction of flow is from the horizontal to the vertical. A sanitary tee shall not be used on a horizontal drainage line as a take off fitting for a vent.
 2. Changes in direction in Schedule 40 DWV-PVC and ABS drainage piping shall be made by the appropriate use of 45° (0.785 rad) wyes, quarter bends or long sweep quarter bends, one-sixth, one-eighth, or one-sixteenth bends, or by a combination of these or equivalent fittings. Single and double sanitary tees and quarter bends may be used in drainage lines only where the direction of flow is from the horizontal to the vertical. A sanitary tee shall not be used on a horizontal drainage line as a take off fitting for a vent.
8. Short Sweeps. Short sweeps not less than 3-inch diameter may be used in soil and waste lines where the change in direction of flow is from the horizontal to the vertical and may be used for making necessary offsets between the ceiling and the next floor above.
9. Prohibited Fittings. A straight tee branch shall not be used as a drainage fitting. A saddle type fitting or running threads shall not be used in the drainage or vent system. Drainage or vent piping shall not be drilled or tapped unless approved by the plumbing official. A fitting having a hub in the direction opposite to flow shall not be used in the drainage system, unless the pipe is cut by either a saw or snap cutter, which will assure clean, smooth cuts of the pipe. Double sanitary tee pattern fittings shall not receive the discharge of fixtures or appliances with pumping action discharge.
10. Heel or Side Inlet Bend Prohibited. Heel or side inlet quarter bend fittings shall not be used in the drainage or vent system.
11. Obstruction to Flow. A fitting or connection which offers abnormal obstruction to flow shall not be permitted.
12. Increasers and Reducers. Where different sizes of pipes or pipes and fittings are to be connected, the proper size increasers or reducers or reducing fittings shall be used between the two sizes.
13. Hot water temp. control not to exceed 110 degree required for all lavatories and hand sinks.

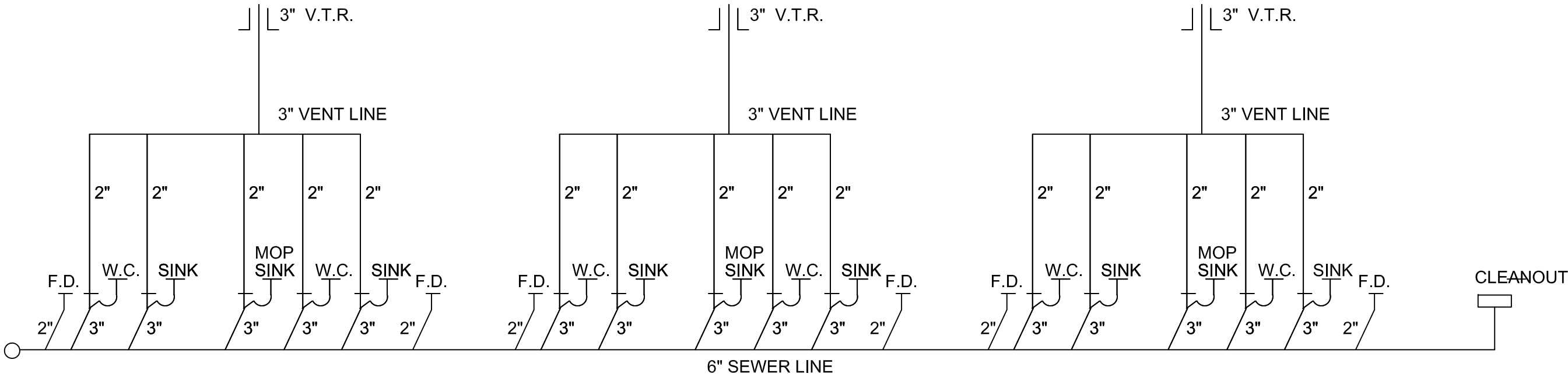
FIXTURE SPACING

ALLOW FOR 60" X 60" CLEAR FLOOR SPACE AROUND TOILET.

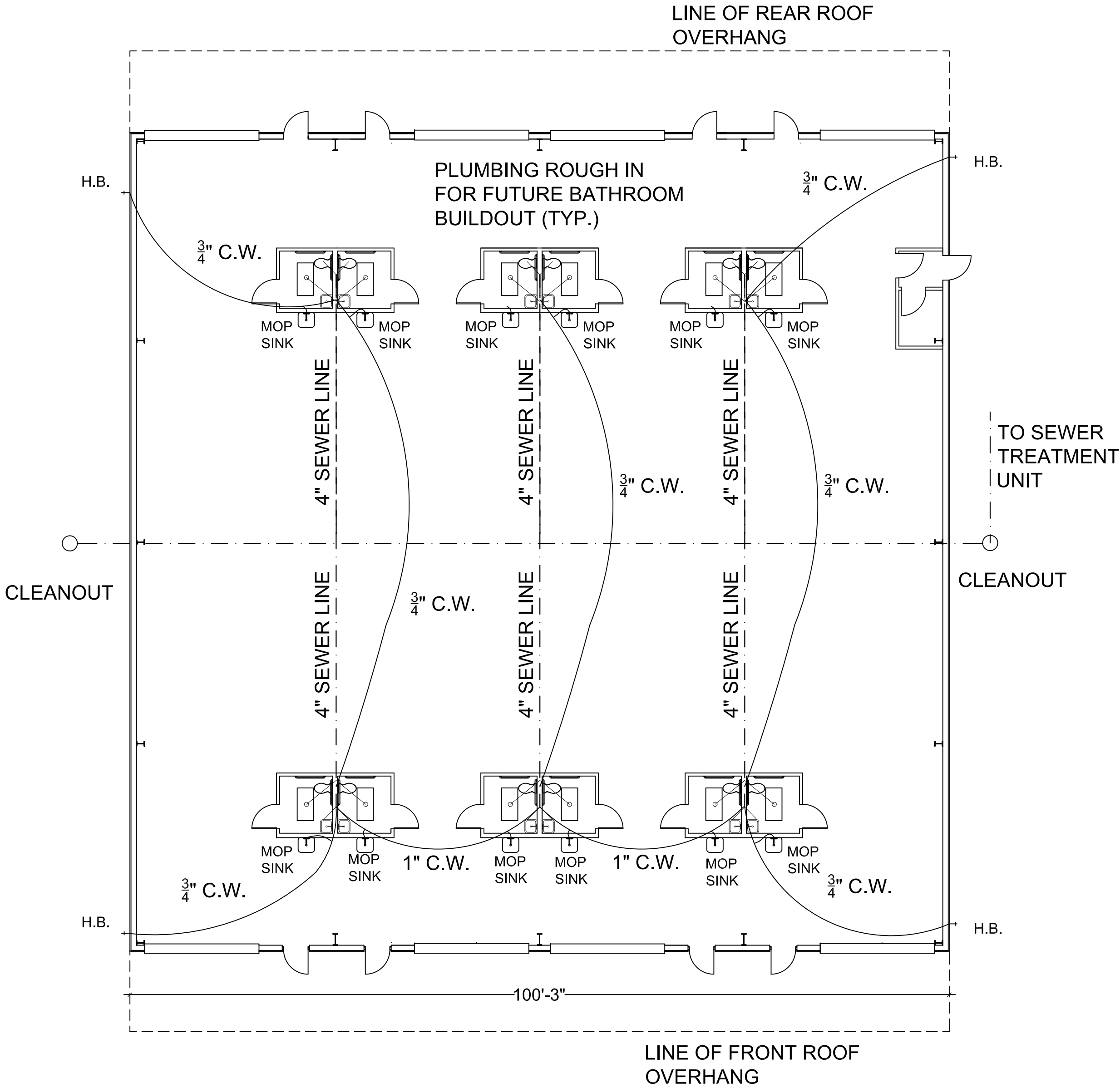
POSITION LAVATORY SUCH THAGT THE 30" X 48" CLEAR FLOOR SPACE DOES NOT OVERLAP THE TOILET CLEAR FLOOR SPACE AND CENTER

PLUMBING PLAN

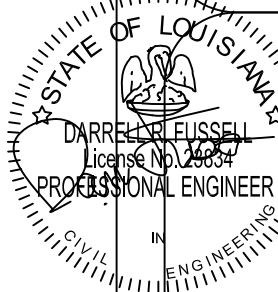
SCALE: 3/32" = 1'-0"



PLUMBING RISER PLAN (ONE SIDE)
NOT TO SCALE



REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY JAMES H. ARCHITECT
1/27/23



NEW WAREHOUSE
FLEXSPACE F1 - SHELL ONLY
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