

Drawing Index	
0	Title Sheet
1	Site Plan
2	Floor Plan
3	Electrical Plan
4	HVAC Plan
5	Plumbing Plan
6	Elevations
7	Foundation Plan
8	Truckwell Details
Survey	

CODE INFORMATION

- PROJECT DESCRIPTION - NEW 31,095 SF BUILDING.
SUITE 100 - NO TENANT AT THIS TIME
- 708 S.F. OFFICE
- 10308 S.F. WAREHOUSE
SUITE 200
- 2243 S.F. OFFICE
- 17836 S.F. WAREHOUSE

- OCCUPANCY - BUSINESS AND S-2 STORAGE. THE WAREHOUSE
WILL BE USED TO STORE AND DISTRIBUTE HVAC EQUIPMENT.

1 HOUR FIREWALL SEPARATING WAREHOUSE AND OFFICE

TYPES OF CONSTRUCTION IBC CHAPTER 6
TYPE OF CONSTRUCTION IIB UNPROTECTED, SPRINKLED

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

FIRE PROTECTION IBC CHAPTER 9
* AUTOMATIC SPRINKLER SYSTEM 903
ACCORDING OF 903.2.1.3 - SPRINKLERS REQUIRED

STRUCTURAL CRITERIA
Wind loading - 2021 IBC/ ASCE 7-16, Vult = 140 MPH, Vasd = 108 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- 16
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

WAREHOUSE WITH OFFICE
22031 ALPHA BLVD.
MANDEVILLE, LA 70471

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

General Notes:
1. Thresholds shall be no more than 1/2" in height and shall be beveled if more than 1/4". 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.

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 - C

DESIGN CRITERIA
- 2021 INTERNATIONAL BUILDING CODE
-2015 NFPA 101
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2020 NATIONAL ELECTRIC CODE



SITE

14. DOORS
NFPA 101:7.2.1.5.9 and IBC 1008.1.94 through 1008.1.9.5 Doors shall be openable 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, 2012 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.

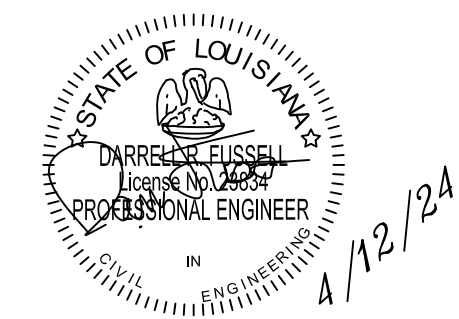
b) Travel distance to a fire extinguisher shall not exceed 30 feet for Class B fires (liquids). (May be increased to 50 feet for Light (low) Hazard fires with 10-B extinguisher, for Ordinary (moderate) Hazard fires with 20-B extinguisher, and for Extra (high) Hazard fires with 80-B extinguisher). See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



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MANDEVILLE, LA 70471

ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darfuss123@gmail.com
PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908

TOILET ROOM ELEVATION

CLEAR FLOOR SPACE AT LAVATORIES

LAVATORY CLEARANCES

CLEAR FLOOR AT WATER CLOSETS

FLOOR PLAN

SCALE: 1/16" = 1'-0"

DOOR SCHEDULE				
(A)	3'-0" x 6'-8"	WOOD	INTERIOR	LEVER LOCK, INSIDE ALWAYS OPEN
(B)	3'-0" x 6'-8"	METAL	INTERIOR	60 MIN. RATED W/ CLOSER
(C)	6'-0" x 7'-0"	METAL	INTERIOR	DBL. 60 MIN. RATED W/ CLOSER
(D)	6'-0" x 7'-0"	GLASS	STORE FRONT	DBL. KEY LOCK
(E)	3'-0" x 7'-0"	GLASS	STORE FRONT	KEY LOCK
(F)	18'-0" x 16'-0"	METAL	ROLL UP	KEY LOCK
(G)	9'-0" x 10'-0"	METAL	ROLL UP	KEY LOCK
(H)	3'-0" x 7'-0"	METAL	EXTERIOR	LEVER LOCK, INSIDE ALWAYS OPEN

WINDOW SCHEDULE		
①	4'-0" w x 4'-0" h	INTERIOR INOPERABLE METAL
②	5'-0" w x 4'-0" h	EXTERIOR INOPERABLE METAL
③	6'-0" w x 7'-0" h	EXTERIOR STORE F. INOPERABLE METAL
④	2'-0" w x 7'-0" h	EXTERIOR STORE F. INOPERABLE METAL
⑤	4'-0" w x 4'-0" h	INTERIOR 1 HR. RATED INOPERABLE METAL

INTERIOR WALL SECTION
NOT TO SCALE

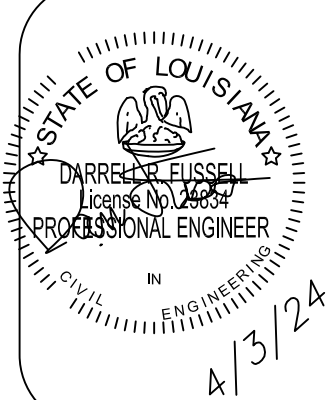
WALL SECTION AT EXTERIOR WALL
NOT TO SCALE

JAMB DETAIL

HEADER DETAIL

GYPSUM BOARD: 1 LAYER 5/8 IN. THICK GYPSUM BOARD, EACH SIDE OF WALL APPLIED HORIZONTAL OR VERTICALLY.
STUDS: 6" METAL STUDS SPACED 16 IN. O.C.

FIRE BARRIER SECTION
NOT TO SCALE



Date	4-3-24
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Description	For SFM Submittal
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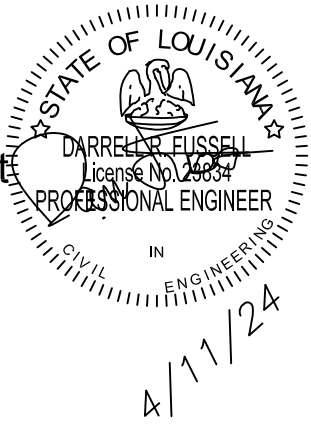
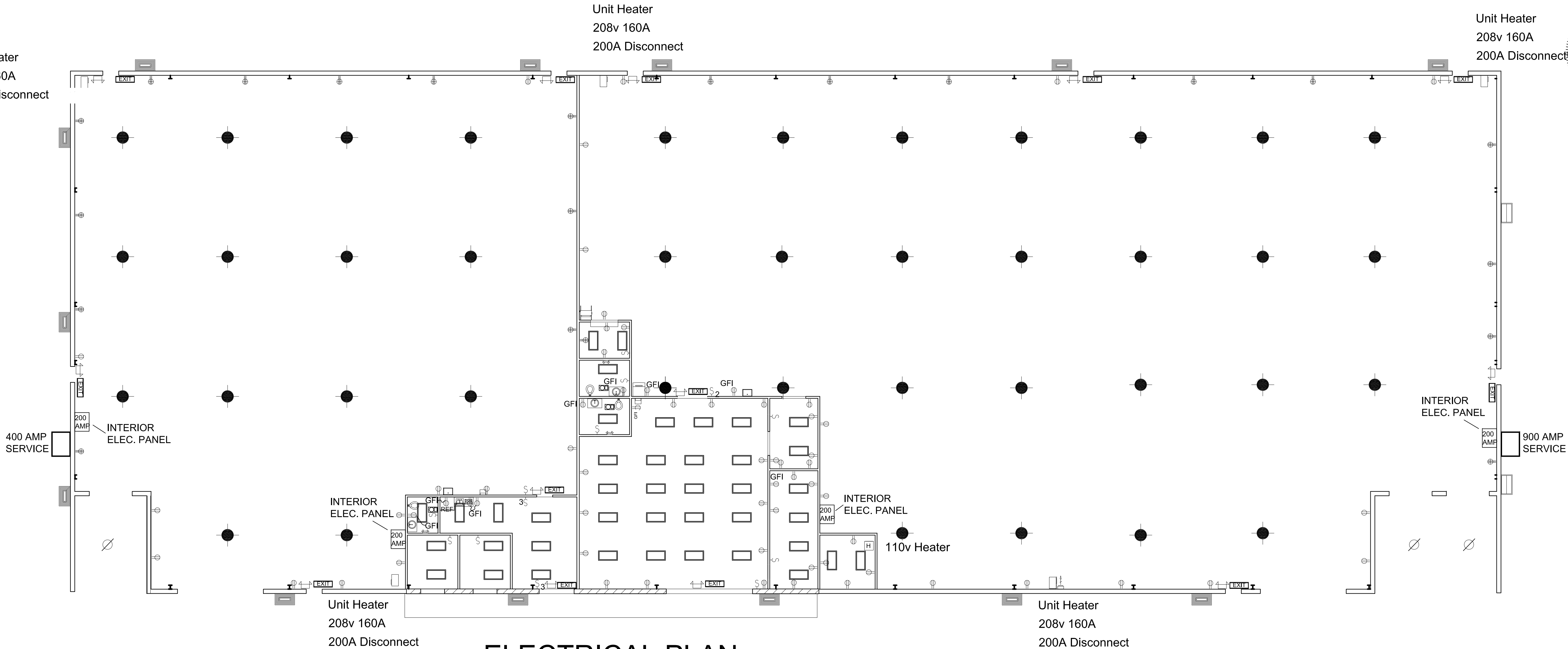
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RETAIL/ WHOLESALE DISTRIBUTION
CARRIER HVAC
ALPHA BLVD.
MANDEVILLE, LA 70471

**ARROW ENGINEERING
& CONSULTING**
DARRELL FUSSELL, P.E.
darrfuss123@gmail.com

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

Unit Heater
208v 160A
200A Disconnect



ELECTRICAL PLAN

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

- OUTDOOR LIGHTING NOTES**
- LIGHTING AT MAN DOORS SHALL BE 26 WATT LED FIXTURES 10' ABOVE GRADE.
 - WALL PACKS ON EACH SIDE OF BUILDING SHALL BE 14' ABOVE GRADE
 - ALL 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.

ELEC. FIXTURE DESCRIPTION		
MARK	ELEC.	DESCRIPTION
	120V	LITHONIA C-2-32-120-GEB-WG 2 -32W T8 LAMPS, 4' STRIP
	120V	EMERGENCY LIGHTING, TWO BULB 7.2 WATTS WITH RECHARGABLE BATTERY, 90 MINUTE DURATION
	120V	LIGHTED EXIT SIGN - INCANDESCENT TWO LAMP 20 WATT - 6" RED LETTERS
	120V	DUPLEX OUTLET 18" A.F.F.
	120V	VENT
	120V	SHOP LED
	120V	EMERGENCY LIGHTING
	120V	GFI DUPLEX OUTLET 18" A.F.F.
		LIGHT SWITCH VENT
	120V	EXTERIOR WALL PACK 60W
	120V	EXTERIOR CEILING LED
	120V	EXTERIOR WALL PACK 26W

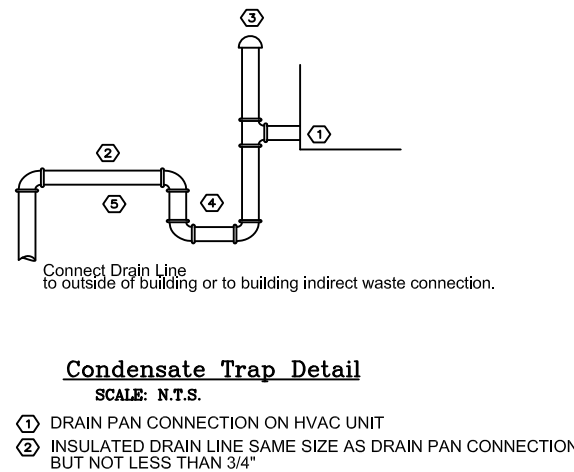
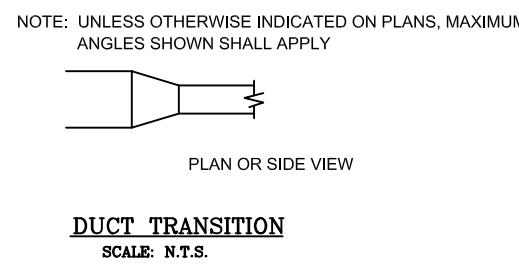
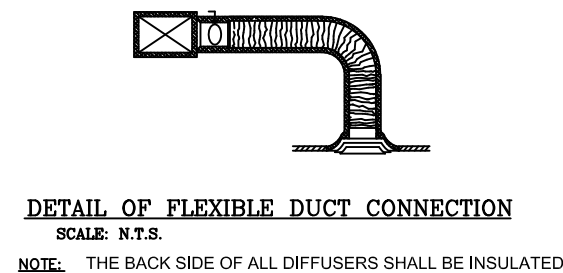
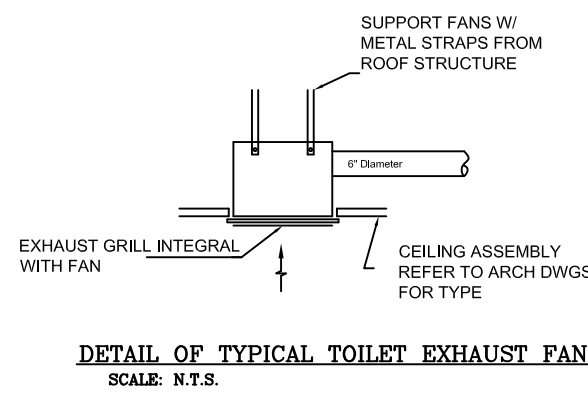
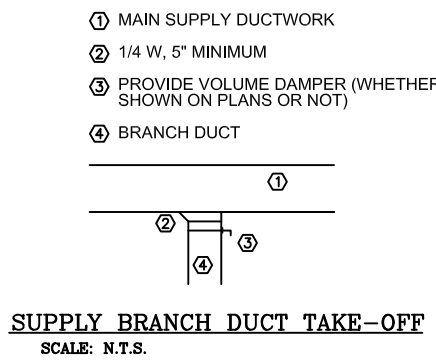
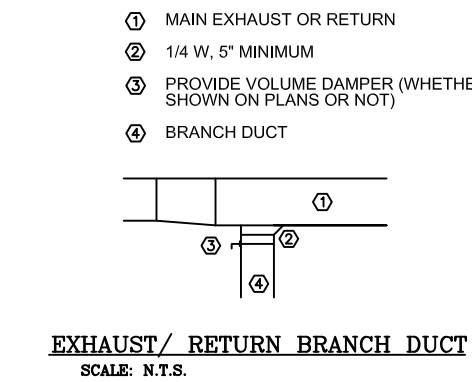
ELECTRICAL NOTES:

1. LATEST EDITIONS OF NATIONAL ELECTRICAL CODE AND THE LOCAL ELECTRICAL CODE SHALL APPLY AS MIN. STANDARD FOR WORK PERFORMED UNDER THIS SCOPE OF WORK.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES, AND COMPLY WITH ALL STATE AND LOCAL BUILDINGS AND SAFETY LAWS.
3. CONTRACTOR SHALL INCLUDE FURNISH LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE ELECTRICAL SYSTEM.
4. ALL CONDUIT SHALL BE AS FOLLOWS:
UNDERGROUND RUNS AND PANEL FEEDERS: RIGID NON-METALLIC PVC SCHEDULE 40 WITH GROUND WIRE INTERMEDIATE GALV. STEEL FOR RISERS THROUGH SLABS AND WHERE SUBJECT TO PHYSICAL DAMAGES.
BRANCH CIRCUITS AND CONTROL WIRING: GALV. ELECTRICAL METALLIC TUBING(EMT), ABOVE GROUND.
5. ALL CONDUCTORS SHALL BE COPPER TYPE THW 600 VOLT, NO WIRE SMALLER THAN #12 AWG FOR POWER, LIGHTING, OR SWITCH LEGS. WHERE PERMITTED BY NEC AND LOCAL CODES, MC CABLE MAY BE USED IN STRICT ACCORDANCE WITH NEC ARTICLE 334.
6. FURNISH ALL SUPPORTS(FOR EQUIPMENT REQUIRING SAME), THIMBLES, INSERTS, HANGERS OR OTHER HARDWARE NECESSARY FOR COMPLETE ELECTRICAL INSTALLATION.
7. FURNISH AND INSTALL STANDARD OUTLET, SWITCH, AND PULL BOXES AS REQUIRED. WEATHERPROOF BOXES ON EXTERIOR SHALL BE CAST ALUMINUM WITH GASKETED LIFT COVER.
8. RECEPTACLES SHALL BE SPECIFICATION GRADE. DUPLEX GROUNDED RECEPTACLES SHALL BE 20 AMPERE 125 VOLT EQUAL TO BRYANT #5352-1, MOUNT RECEPTACLES 18" ABOVE FLOOR UNLESS OTHERWISE NOTED.
9. PANELBOARDS AS SCHEDULED ON PLANS SHALL BE DEAD FRONT SAFETY TYPE, FULL SIZED CIRCUIT BREAKER BRANCHES(NO TWINS OR TANDEMS), FACTORY OR LOCALLY ASSEMBLED WITH DOOR AND GOOD LATCH, GALVANIZED STEEL CABINET AND DIRECTORY FRAME FOR TYPEWRITTEN IDENTIFICATION OF ALL CIRCUITS.
10. GROUND ENTIRE WIRING SYSTEM AND SPECIAL DEVICES IN ACCORDANCE WITH NEC FEEDER CONDUITS SHALL PROVIDE A GOOD PATH TO SYSTEM GROUND. VERIFY CONTINUITY OF ALL CONDUIT RUNS AND CORRECT ANY DISCREPANCIES.
11. PROVIDE LOCAL DISCONNECTS AT ALL EQUIPMENT LOCATED OUT OF SITE OF PANEL. SAFETY SWITCHES NORMAL DUTY NEMA 1 FOR PROTECTED, NEMA 3R FOR THOSE EXPOSED TO OUTDOORS. PROVIDE DUAL-ELEMENT TIME LAG BUSS FUSETRON ON EQUAL FUSES IN ALL FUSEHOLDERS.
12. ALL LIGHTING FIXTURES SHALL BE FURNISHED, WIRED, AND INSTALLED COMPLETE ALL LAMPS OR DEVICES NECESSARY FOR A COMPLETE INSTALLATION.
13. PROVIDE 2 #10, 1 #12 FOR WHAREHOUSE LIGHT CIRCUITS.

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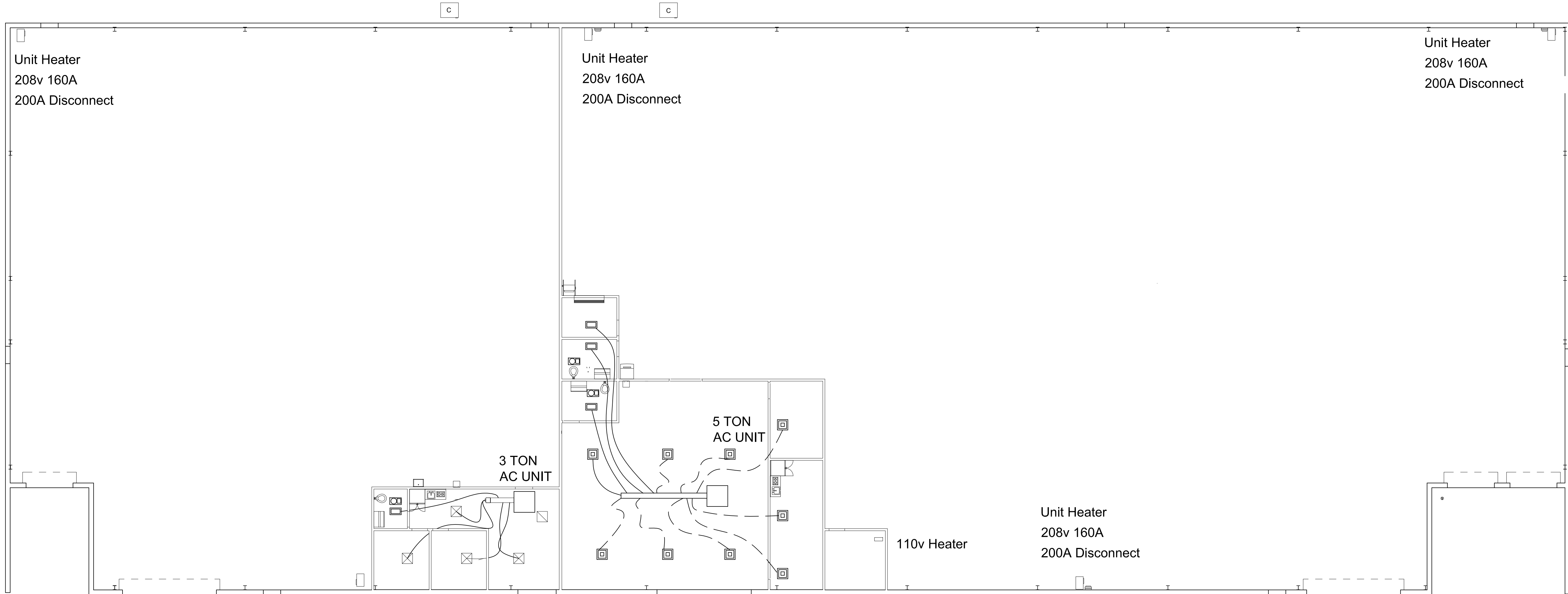
PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908



HVAC LEGEND		
MARK	ELEC.	DESCRIPTION
		8x16 DIFFUSER
		DIFFUSER-TITUS TMSA 24X24 03 26 AG-75
		EXHAUST FAN 100 CFM, 80W, 950RPM
		ROUND DUCT
		CONDENSER

- HVAC NOTES**
- HVAC System to be attic type with coil drain pan, built in drain and level switch.
 - The Contractor shall be responsible for field verifying all dimensions and locations prior to beginning of work. The installer of mechanical systems shall coordinate with all other disciplines to avoid interference. The contractor shall notify the architect/engineer of any discrepancies prior to beginning job. Plans and diagrams are schematic only and should not be scaled.
 - All rigid rectangular and round duct dimensions as well as flexible ducts shown are inside dimensions and represent the net airflow area of duct.
 - All ducts shall be insulated externally with 1-1/2", 1-1/2 lb density fiberglass insulation. R Value for insulation shall be R-5 or greater for inside building ducts and R-8 or greater for outside building ducts. Adjust insulation thicknesses and/or densities to conform to this requirement.
 - Contractor to field route package hvac unit condensate lines to nearby drain or to outside of building (french drain).
 - Provide fire dampers where ducts penetrate fire resistant (firedrated for one or more hours) walls and partitions and at all fresh air intakes. See exceptions referenced in International Mechanical Code. All dampers may not be shown on plans for clarity purposes. Contractor to factor in additional dampers for fire rated walls and ceilings not shown on plans.
 - All offsets and turns of ducts greater than 30 degrees to have single thickness turning vanes (rectangular ducts).
 - All individual return air and fresh air ducts shall have manual dampers for adjusting flow rates.
 - All taps from main ducts to ceiling diffusers and wall registers shall have manual dampers near main duct tap. See spin damper detail.
 - Mechanical Contractor to coordinate with electrical contractor with regards to final location of ceiling diffusers, ceiling lights, and ceiling fans. Mechanical Contractor to adjust location of diffusers as needed to avoid interference with lights and fans except in cases where diffuser throws will be adversely affected.
 - All work shall be performed in accordance with the requirements of the applicable parish, all applicable codes, standards, and established practices of the industry.
 - Install diffusers, registers, and grilles according NFPA90A.

- HVAC Air distribution systems to have airflows balanced within the distribution system, including submains, branches, and terminals to indicated quantities as shown on the drawings.
- Each HVAC unit shall come equipped with a heating and cooling stage thermostat including subbase consisting of manual system switch (off/heat-auto-cool). Fan switch (auto-on) thermostat to be solid state, programmable with occupant over-ride and setback capabilities. In addition to thermostats, the control system should include all required accessories such as transformers, wires, relays, sensors, etc., to complete the working control. See schedule for additional requirements.
- Outside air dampers to be manually adjusted to cfm flowrate indicated on the equipment schedule.
- Provide approved smoke detector in the return air stream of AHU units upstream of outside air entry and interlock with the unit control system to stop the fan in the event of detecting smoke in the system. Provide approved smoke detector in the main supply air duct prior to any branch duct connections. Smoke dampers are mandatory for systems with 2000 cfm flowrate or greater. Interlock with the unit control system to stop the fan in the event of detecting smoke in the system.
- All outside air intakes shall be a minimum of 10 feet from any exhaust or vent.
- All flexible ducts must be mechanically fastened and sealed to prevent leakage using duct mastic. The following locations must be sealed: all connections, supply and return air grilles, penetrations into plenum, etc., as identified in the Louisiana Energy Code.
- All metal duct transverse and longitudinal seams must be sealed. Spiral Ducts do not require sealing. Various exterior-duct sealant materials may be used to seal seams, however pressure-sensitive tape (duct tape) cannot be used as the primary sealant.
- It is recommended that AHU unit blowers operate continuously during occupied periods.
- Contractor shall balance A/C Systems to specified CFM in accordance with AABC.
- Insulate all refrigeration lines and run same concealed in walls and attic (1/2" ARMAFLEX MINIMUM.)
- Return air grill to have unit filters in rack w/ grill frame (locate as req'd).
- Exhaust duct from each restroom, vent thru roof.
- Use min. 1-1/2" ext. wrap fiberglass insulation on metal and flex-ducts.
- Plumbing contractor to provide drain to outside



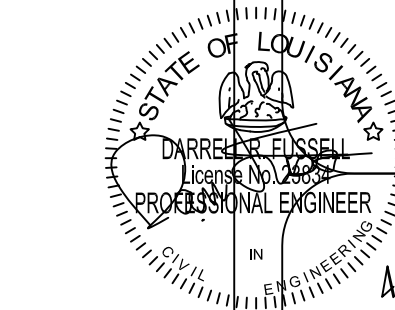
HVAC PLAN

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

Unit Heater
208v 160A
200A Disconnect

Unit Heater
208v 160A
200A Disconnect

Unit Heater
208v 160A
200A Disconnect



Date
4-12-24

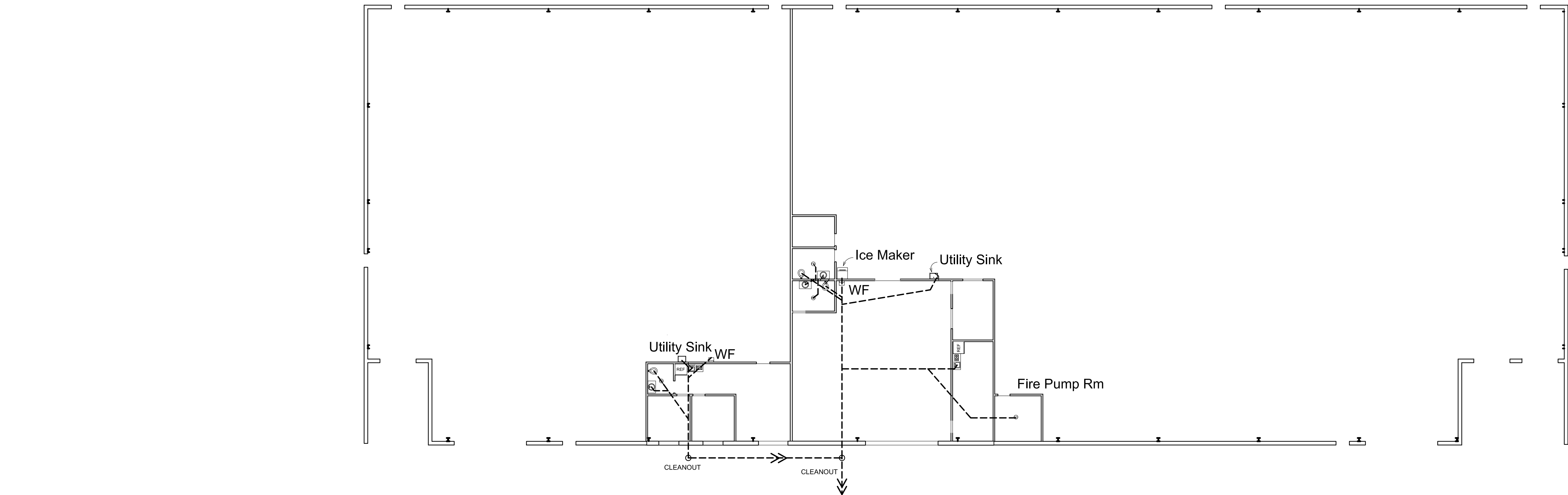
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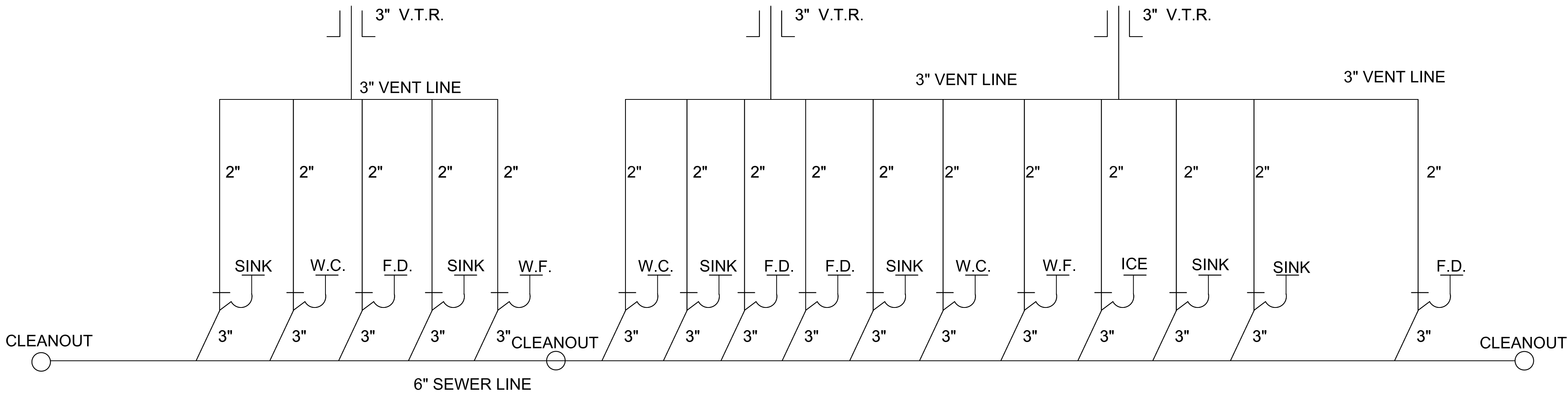
WAREHOUSE WITH OFFICE
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MANDEVILLE, LA 70471

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& CONSULTING
DARRELL FUSSELL, P.E.
darffuss123@gmail.com

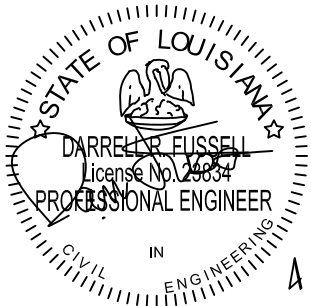
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PLUMBING PLAN
SCALE: 1/16" = 1'-0"



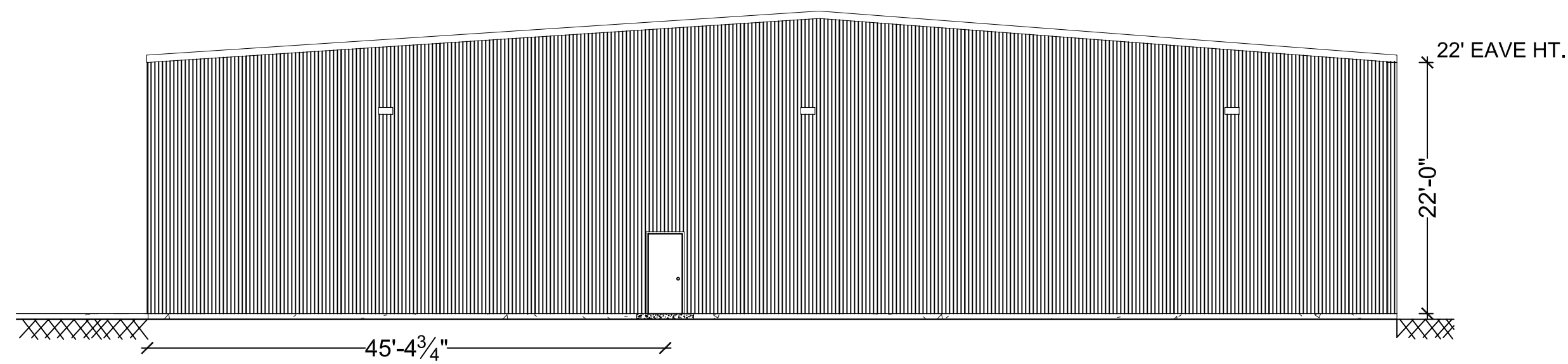
- 2021 INTERNATIONAL MECHANICAL CODE:
1. Number of plumbing fixtures required is to be determined by IMC.
 2. The water distribution system shall be protected against backflow in accordance with IMC.
 3. Devices for the prevention of backflow or back siphoning shall comply with the standards listed in 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 IMC.
 6. Cleanouts in the drainage piping shall be located as listed in 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, long-or-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. Increases 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.



ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darfuss123@gmail.com
PO BOX 881
Madisonville, LA 70447
Phone: 985-237-3908

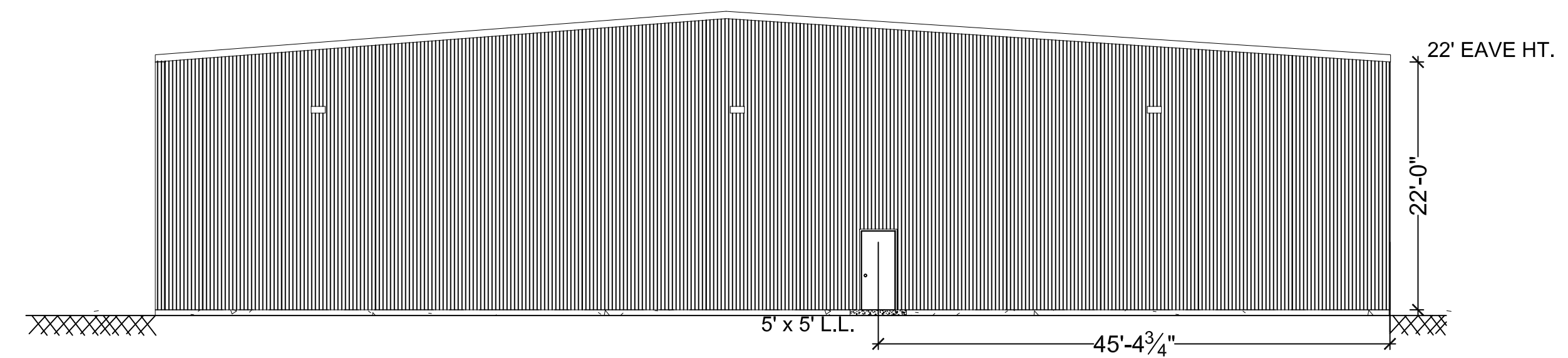
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Issue	Description	Date
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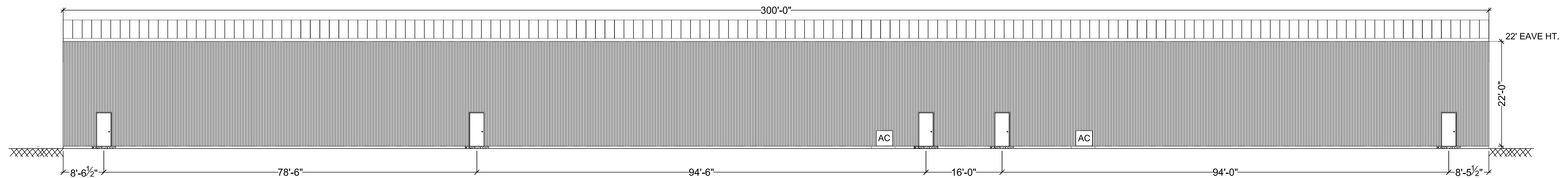
EAST ELEVATION

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



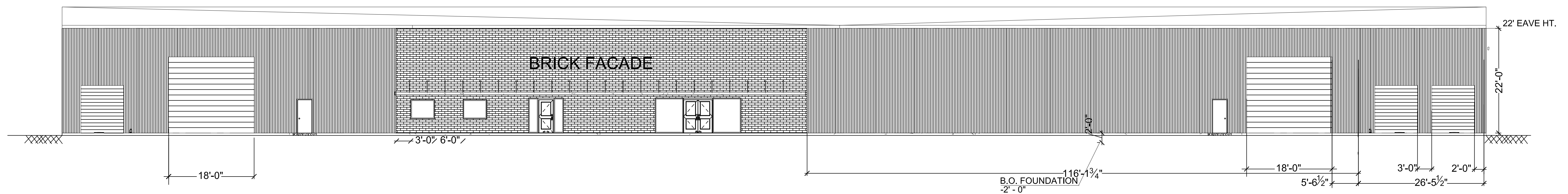
WEST ELEVATION

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



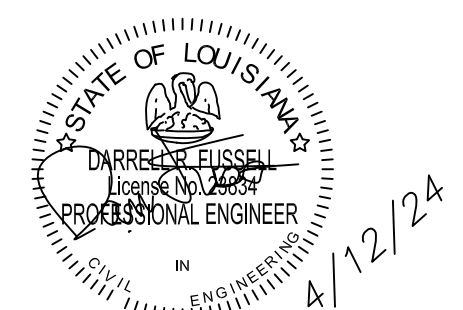
NORTH ELEVATION

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



SOUTH ELEVATION

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

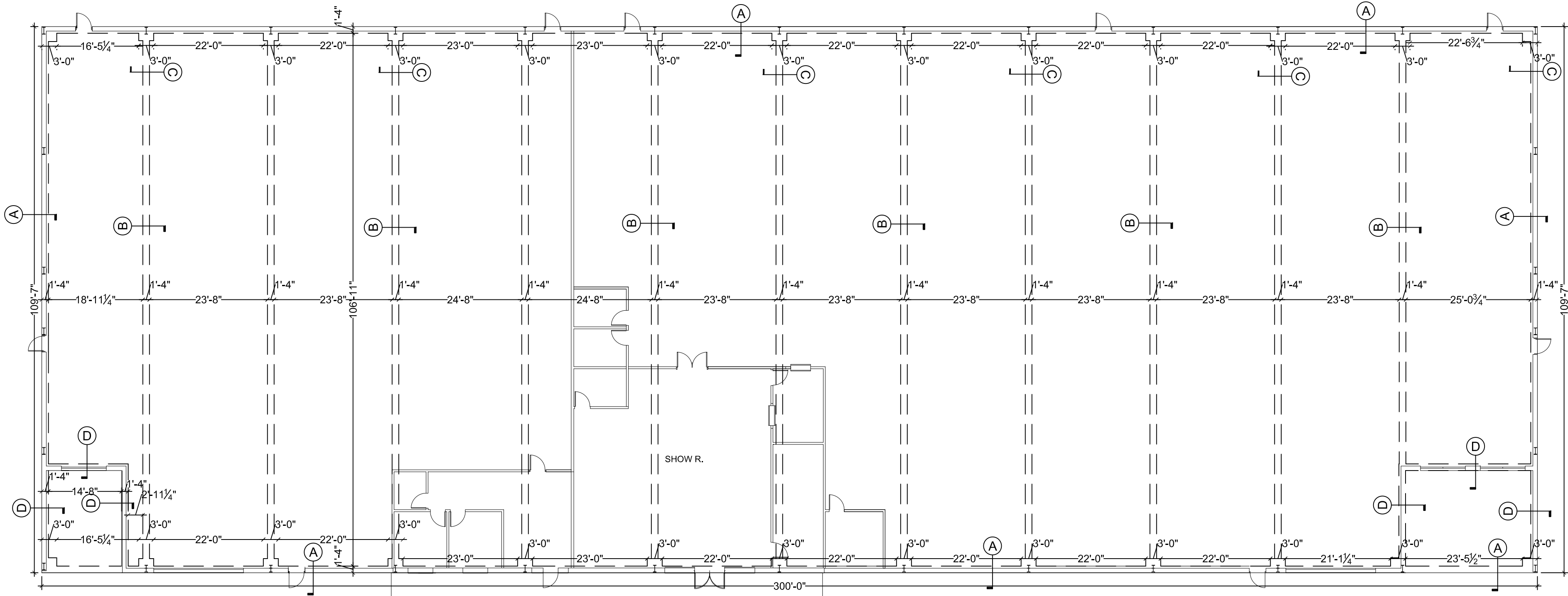


WAREHOUSE WITH OFFICE
22031 ALPHA BLVD.
MANDEVILLE, LA 70471

ARROW ENGINEERING
& CONSULTING
DARRELL FUSSELL, P.E.
darrfuss123@gmail.com
PO Box 881
Madisonville, LA 70447
Phone: 985-237-3908

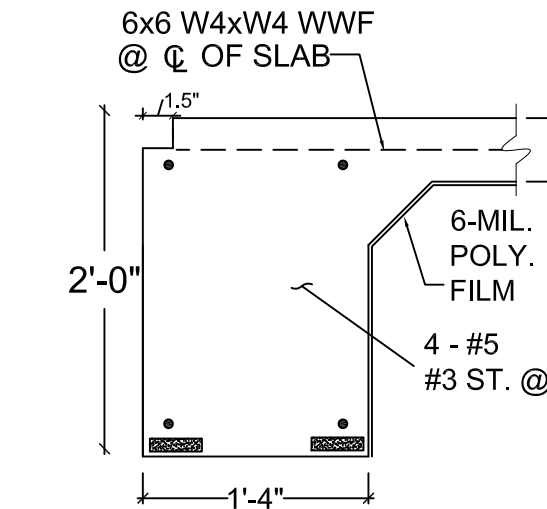
CONCRETE NOTES:

1. 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)
2. 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.
3. ALL FORMWORK SHALL BE IN COMPLIANCE WITH A.C.I. 301.
4. RECESS AS REQUIRED FOR CERAMIC TILE, WOOD, AND BRICK FLOORS, MAINTAINING FULL SLAB AND GRADE BELOW DEPTH.
5. ALL CONVENTIONAL REINFORCING STEEL SHALL BE ASTM DESIGNATION A-165, GRADE 60 REINFORCING AND WIRE MESH SHALL MEET ASTM-185 WWF REINFORCING.
6. REINFORCING SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
7. 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.
8. 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.
9. 25" LAP WITH 2 TIES REQUIRED AT REINFORCING SPLICES. 12" HOOK REQUIRED AT CORNERS
10. 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
11. 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.
12. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, INSERTS, AND ANY OTHER RELATED ITEMS.
13. 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.
14. ALL SECTIONS SHOWN ARE THE SECTIONS AT MID-SPAN OF GRADE BEAMS UNLESS OTHERWISE SHOWN.
15. ALTERATION TO OR DEVIATION FROM THE INFORMATION SHOWN ON THIS SHEET WITHOUT ADVANCED APPROVAL FROM ARCHITECT/ENGINEER MAY VOID ARCHITECT/ENGINEER'S RESPONSIBILITY.

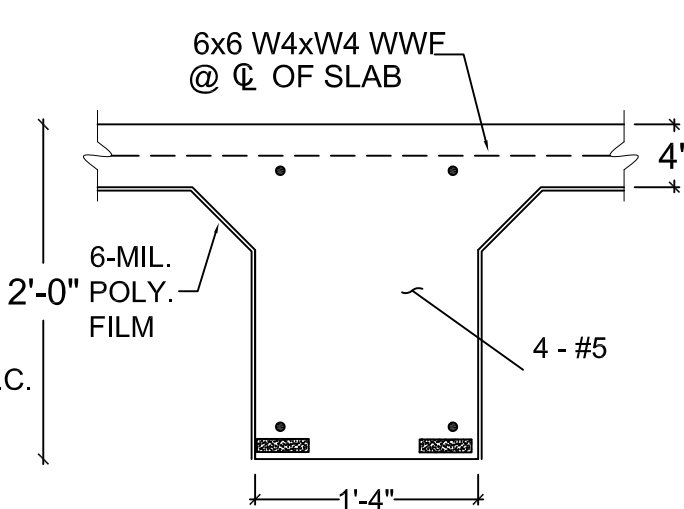


FOUNDATION PLAN

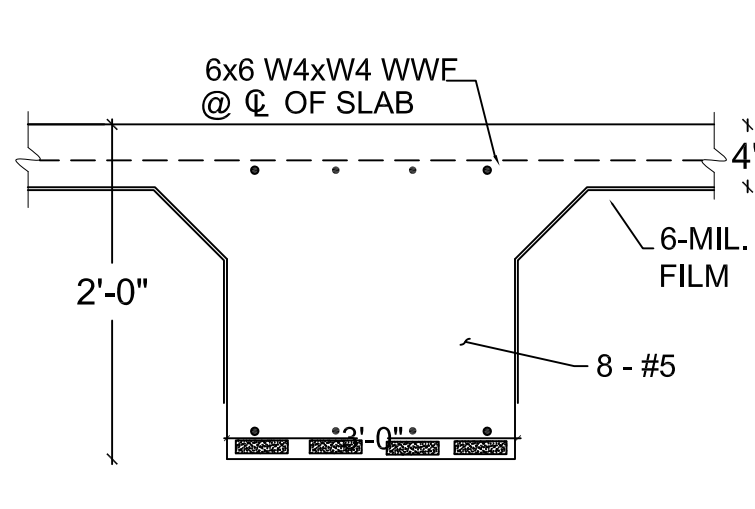
SCALE: 1/16" = 1'-0"



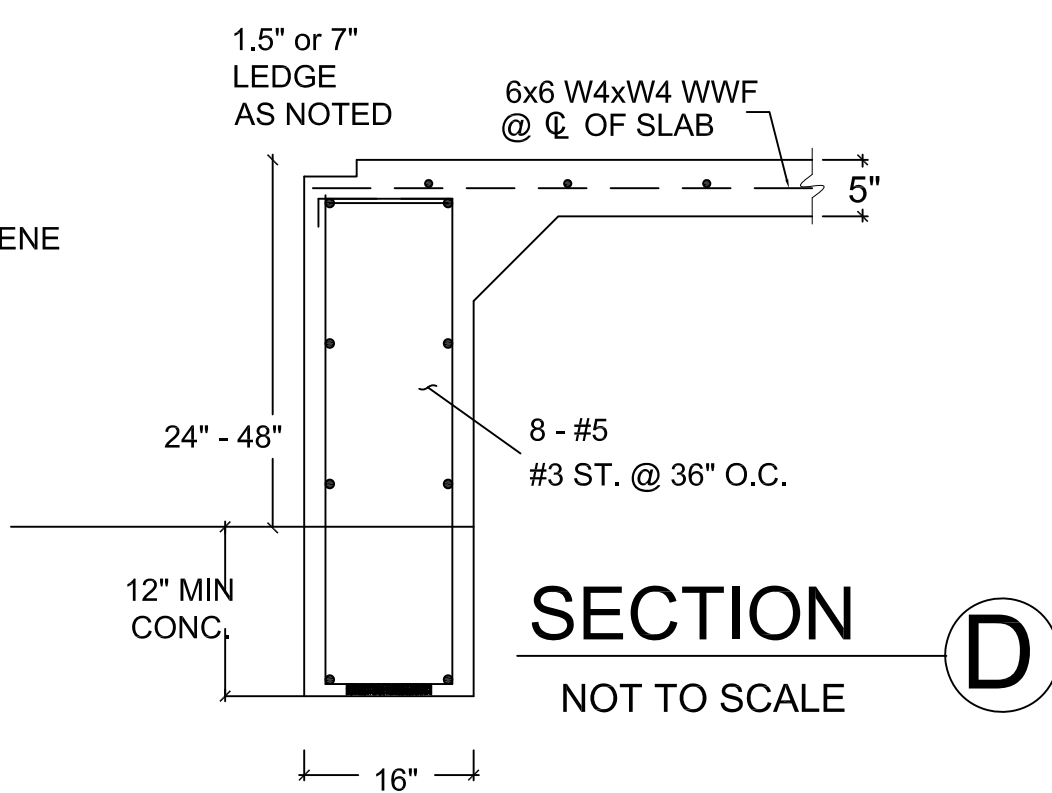
SECTION A
NOT TO SCALE



SECTION B
NOT TO SCALE



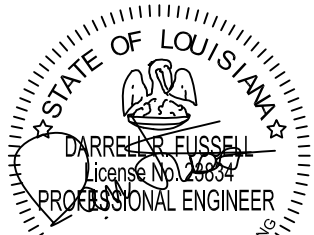
SECTION C
NOT TO SCALE



SECTION D
NOT TO SCALE

SITE PREPARATION NOTES:

1. REMOVE TOP SOIL (8" TO 12")
2. PROOF ROLL SUBBASE WITH LOADED TANDEM DUMP TRUCK. REMOVE "PUMPING AREAS" AND REPLACE WITH COMPACTED FILL. (D-698)
3. PLACE FILL DIRT (A-4) MATERIAL OR BETTER IN 8" LIFTS COMPACTED TO 95% MAX. DENSITY. (D-698) CONFIRM W/TESTING.

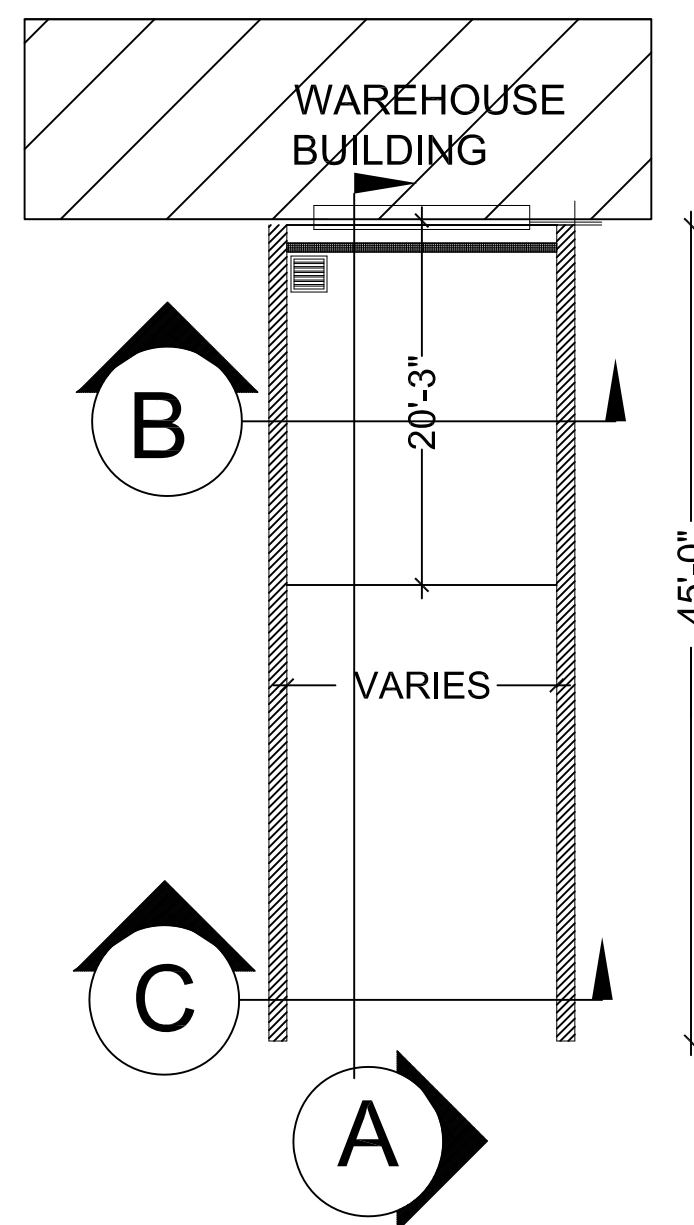
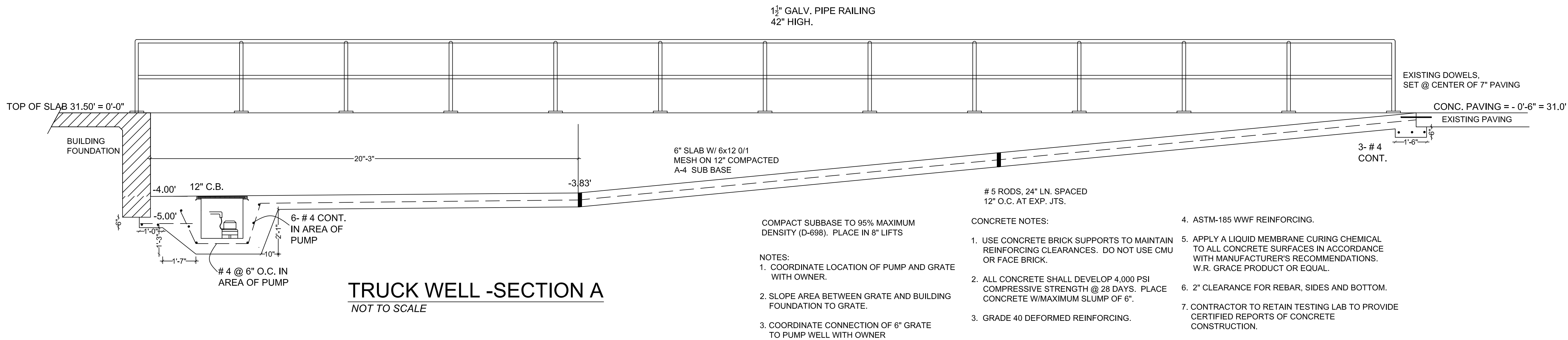
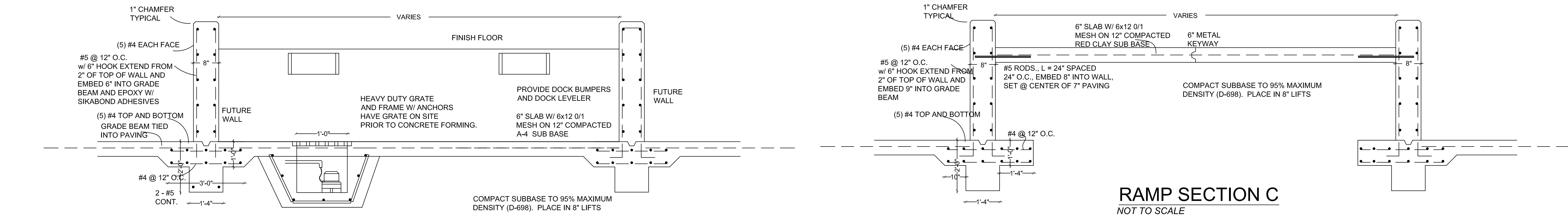


4/12/24

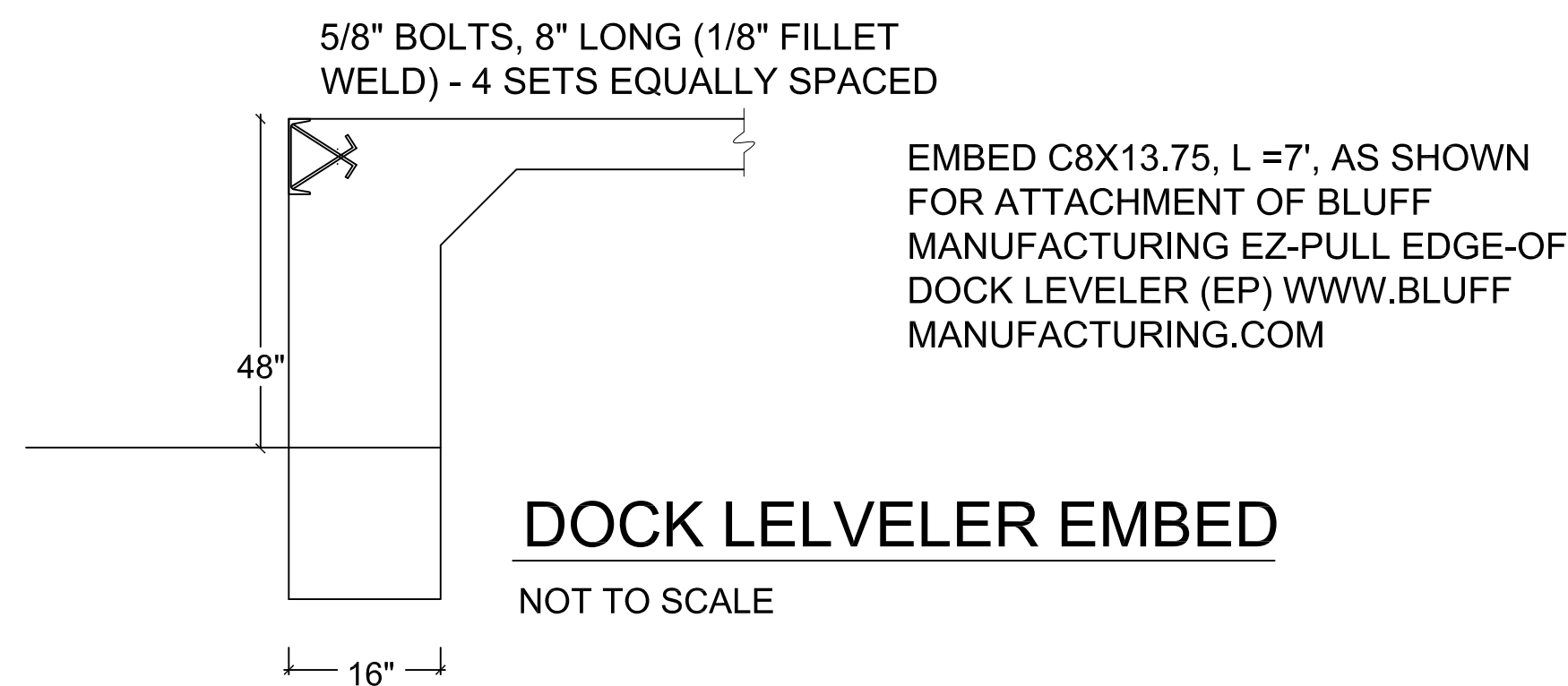
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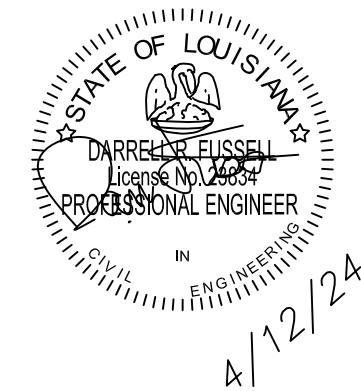
PO BOX 981
Madisonville, LA 70447
Phone: 985-237-5908



- NOTES:
- TRUCKWELL "A" IS 15' WIDE
 - TRUCKWELL "B" IS 26' WIDE
 - CONSTRUCT SUMP ON OUTSIDE EDGE OF TRUCKWELL (SEE CIVIL SITE DRAWINGS)



TRUCK WELL PLAN



WAREHOUSE WITH OFFICE 22031 ALPHA BLVD. MANDEVILLE, LA 70471		
ARROW ENGINEERING & CONSULTING DARRELL FUSSELL, P.E. darrfuss123@gmail.com	Date 4-12-24	
PO BOX 881 Madisonville, LA 70447 Phone: 985-237-3908	Description For Review	
	Issue A	