ST. LANDRY BANK - EUNICE RENOVATION

100% CONSTRUCTION DOCUMENTS

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SHEET LIST

G1.0	COVER SHEET
G1.1	ADA STANDARDS
G2.0	SPECIFICATIONS
G2.1	SPECIFICATIONS
G2.2	SPECIFICATIONS
G2.3	SPECIFICATIONS
LS1.0	LIFE SAFETY PLAN
AS1.0	EXISTING SITE PLAN
AS1.1	NEW SITE PLAN
A1.0	EXISTING FIRST FLOOR PLAN
A1.1	DEMO FIRST FLOOR PLAN
A1.2	TEMPORARY BRANCH FLOOR PLAN
A1.3	NEW FLOOR PLAN
A1.4	EXISTING SECOND FLOOR PLAN
A1.5	DEMO SECOND FLOOR PLAN
A1.6	EXISTING ROOF PLAN
A1.7	NEW ROOF PLAN
A1.8	ROOF DETAILS
A1.9	DEMO REFLECTED CEILING PLAN
A1.10	NEW REFLECTED CEILING PLAN
A1.11	PLAN DETAILS
A2.1	DEMO EXTERIOR ELEVATIONS
A2.2	EXTERIOR ELEVATIONS - NEW
A3.1	BUILDING SECTIONS
A4.1	WALL SECTIONS
A5.1	SECTION DETAILS
A5.2	SECTION DETAILS
A6.1	DOOR SCHEDULE
A6.2	WINDOW SCHEDULE
VM0.0	COVER SHEET
VM0.1	VM - SECURITY
VM0.2	VM - EQUIPMENT
VM0.3	VM - MISC.
ID 0.0	COVER SHEET
ID 0.1	DESIGN INTENT RENDERINGS
ID 1.0	INTERIOR REFERENCE PLAN
ID 1.1	INTERIOR FINISH PLAN
ID 1.2	REFERENCE FURNITURE PLAN
ID 2.0	INTERIOR ELEVATIONS
ID 3.0	MILLWORK
ID 3.1	MILLWORK
ID 3.2	MILLWORK
ID 3.3	MILLWORK
ID 3.4	MILLWORK

SHEET LIST

ID 3.5	MILLWORK
ID 4.0	SCHEDULES
M1.0	GENERAL MECHANICAL NOTES AND LEGEND
M1.1	MECHANICAL DEMOLITION FLOOR PLANS & LEGEND
M2.1	RENOVATION - 1ST FLOOR PLAN - MECHANICAL
M2.2	RENOVATION - 2ND FLOOR PLAN - MECHANICAL
M3.1	MECHANICAL SCHEDULES
M3.2	AHU/CU SPECIFICATIONS, SCHEDULES & DETAILS
M4.1	MECHANICAL DETAILS
M4.2	MECHANICAL DETAILS
M4.3	MECHANICAL DETAILS
M4.4	MECHANICAL DETAILS
MP1.1	MECHANICAL & PLUMBING SPECIFICATIONS
MP1.2	MECHANICAL & PLUMBING SPECIFICATIONS
MP1.3	MECHANICAL & PLUMBING SPECIFICATIONS
MP1.4	MECHANICAL & PLUMBING SPECIFICATIONS
P1.0	GENERAL PLUMBING NOTES AND LEGEND
P1.1	PLUMBING DEMOLITION FLOOR PLAN
P1.2	PLUMBING RENOVATION FLOOR PLAN
P1.3	PLUMBING ROOF PLAN
P2.1	PLUMBING SCHEDULES & RISER DIAGRAMS
P3.1	PLUMBING DETAILS
P3.2	PLUMBING DETAILS
P3.3	PLUMBING DETAILS
E0.0	SCHEDULES AND ABBREVIATIONS
E0.1	LUMINAIRE SCHEDULE
E0.2	GENERAL ELECTRICAL NOTES
E0.3	SPECIFICATIONS
E1.0	ELECTRICAL SITE
E1.1	FIRST FLOOR DEMO
E1.2	SECOND FLOOR DEMO
E2.0	FIRST FLOOR LIGHTING
E3.0	FIRST FLOOR POWER & SS
E3.1	SECOND FLOOR ELECTRICAL
E6.0	PANEL SCHEDULE
E7.0	POWER RISER DIAGRAM

ALLOWANCE:

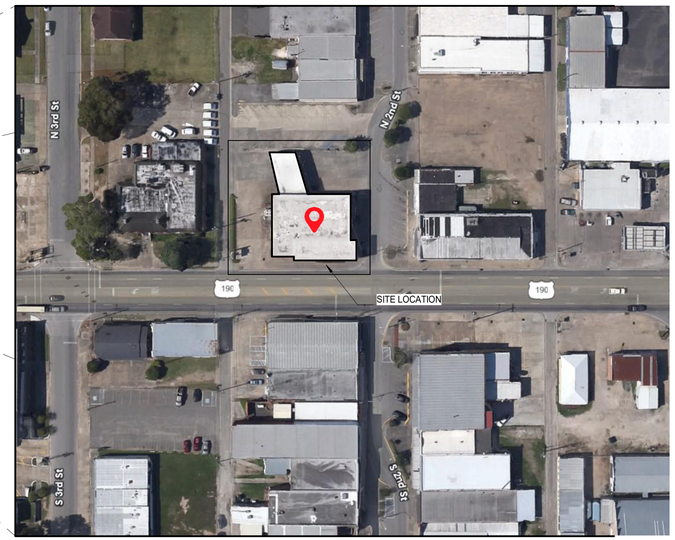
1. GENERAL CONTRACTOR TO INCLUDE ALLOWANCE OF $10,000 FOR POTENTIAL ADDITIONAL GYPSUM BOARD, TAPING, AND FLOATING REQUIRED DUE TO CEILING HEIGHT ADJUSTMENT IN AREAS WHERE PLASTER CEILING IS DEMOLISHED.
2. GENERAL CONTRACTOR TO INCLUDE ALLOWANCE OF $20,000 FOR POTENTIAL ADDITIONAL STRUCTURAL STELL RELATED TO NEW WINDOW OPENINGS IN THE TRIPLE WYTHE BRICK EXTERIOR WALLS.



RENDERING



VICINITY MAP



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STATE OF LOUISIANA
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St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
G1.0

CHAPTER 3: BUILDING BLOCKS

303 Changes in Level

303.2 Vertical. Changes in level of ¼ inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

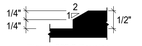


Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

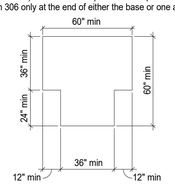


Figure 304.3.2 T-Shaped Turning Space

305 Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

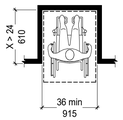


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

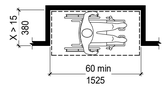


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

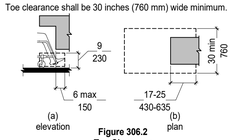


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

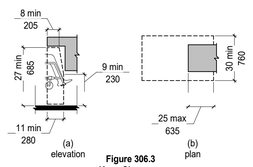


Figure 306.3 Knee Clearance

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

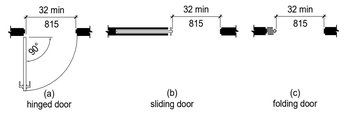


Figure 404.2.3
Clear Width of Doorways

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

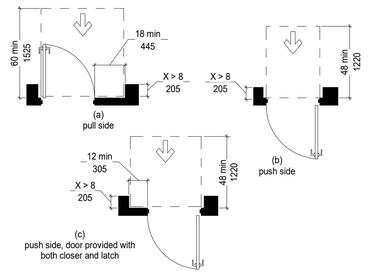


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable
by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that
hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of
the finish floor or ground measured vertically shall have a smooth surface on the push side extending
the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be
within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall
be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or
more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall
comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall
comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced
Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with
404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible
means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

600 Plumbing Elements and Facilities

604.2 Location. The centerline of the water closet shall be 16 inches (405 mm) to 18 inches (455 mm) maximum from the side wall or partition. Water closets shall be arranged for a left-hand or right-hand approach.

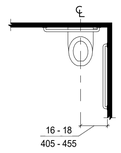


Figure 604.2
Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.



Figure 604.3.1
Size of Clearance at Water Closet

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

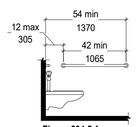


Figure 604.5.1 Side Wall Grab Bar at Water Closet

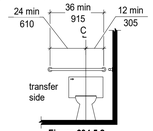


Figure 604.5.2 Rear Wall Grab Bar at Water Closet

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

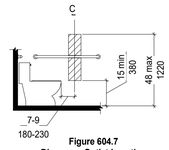


Figure 604.7 Dispenser Outlet Location

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

605.2 Urinal Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

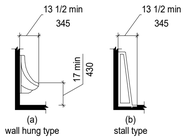


Figure 605.2 Height and Depth of Urinals

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

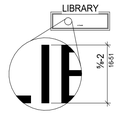


Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

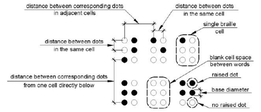


Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

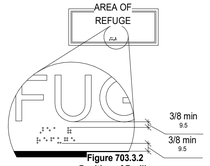


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

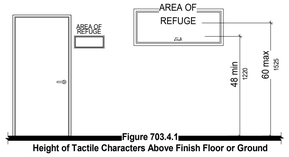


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. 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. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

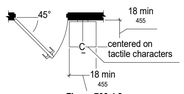


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

Figure 703.6.1 Pictogram Field

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.



THESE DESIGN DOCUMENTS AND SPECIFICATIONS AE OWNED AND COPYRIGHTED BY KERN ARCHITECTS AND ARE NOT TO BE USED, COPIED, OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT. ANY UNAUTHORIZED USE OR DISCLOSURE OF THE PROPRIETARY INFORMATION CONTAINED HEREIN MAY SUBJECT SUCH PERSONS TO CRIMINAL AND CIVIL PENALTIES AND DAMAGES.

kern architects

St. Landry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
ADA STANDARDS

SHEET NUMBER:
G1.1

ABBREVIATIONS

A.C.T. - ACOUSTIC CEILING TILE
A.F.F. - ABOVE FINISHED FLOOR
A.H.J. - AUTHORITIES HAVING JURISDICTION
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIAL
B.C.R. - BIDDER'S CLARIFICATION REQUEST
C.J. - CONTROL JOINT
DOTD - DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
E.I.F.S. - EXTERIOR INSULATION AND FINISH SYSTEM
E.J. - EXPANSION JOINT
EPA - ENVIRONMENTAL PROTECTION AGENCY
EPD - ENVIRONMENTAL PRODUCT DECLARATION
F.F.E. - FINISHED FLOOR ELEVATION
GA. - GAUGE
G.C. - GENERAL CONTRACTOR
IBC - INTERNATIONAL BUILDING CODE
IMC - INTERNATIONAL MECHANICAL CODE
K.A. - KERN ARCHITECTS / "THE ARCHITECT"
MIL - MIL (0.001")
MM - MILLIMETER (0.03937")
MTD. - MOUNTED
N.I.C. - NOT IN CONTRACT
N.O.I. - NOTICE OF INTENT
N.O.T. - NOTICE OF TERMINATION
O.C. - ON CENTER
O.D. - OUTSIDE DIMENSION
PB.D.E. - POLYBROMINATED DIPHENYL ETHERS
PERM. - PERMEABLE OR PERMEABILITY
P.T. - PRESSURE TREATED
R.F.I. - REQUEST FOR INFORMATION
S4S - SURFACED FOUR SIDES
U.N.O. - UNLESS NOTED OTHERWISE
X.P.S. - EXTRUDED POLYSTYRENE

00 PROCUREMENT AND CONTRACTING REQUIREMENTS

00 20 00 - INSTRUCTIONS TO BIDDERS

BIDDERS REPRESENTATION:

1. EACH BIDDER BY MAKING A BID REPRESENTS THAT:
   a. THE BIDDER HAS READ AND UNDERSTANDS THE BIDDING DOCUMENTS AND THE BID IS MADE IN ACCORDANCE THEREWITH.
   b. THE BIDDER HAS READ AND HAS CROSS-REFERENCED BETWEEN ARCHITECTURAL, INTERIOR DESIGN, AND ENGINEERING DOCUMENTS AND ESTABLISHED CONTINUITY BETWEEN DISCIPLINE'S SPECIFICATIONS FOR MATERIALS, PRODUCTS, OR EQUIPMENT, OR THE BIDDER HAS SUBMITTED A BIDDER'S CLARIFICATION REQUEST (B.C.R.) TO RESOLVE ANY CONFLICTS ARISING FROM THE BID DEVELOPMENT.
   c. THE BIDDER HAS VISITED THE SITE AND HAS FAMILIARIZED THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
   d. THE BID IS BASED SOLELY UPON THE MATERIALS, SYSTEMS, AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS AS ADVERTISED AND AS MODIFIED BY ADDENDA.
   e. THE BID IS NOT BASED ON ANY VERBAL INSTRUCTIONS CONTRARY TO THE CONTRACT DOCUMENTS AND ADDENDA.
   f. THE BIDDER MUST BE FULLY QUALIFIED UNDER ANY STATE OR LOCAL LICENSING LAW FOR CONTRACTORS IN EFFECT AT THE TIME AND AT THE LOCATION OF THE WORK BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THAT ALL THE SUB-BIDDERS OR PROSPECTIVE SUB-BIDDERS ARE DULY LICENSED IN ACCORDANCE WITH LAW.
   UPON ACCEPTANCE OF THE SUCCESSFUL CONTRACTOR'S BID, THE SUCCESSFUL CONTRACTOR SHALL FURNISH THE NAMES AND LICENSE NUMBERS FOR ALL OF THE SUB-BIDDERS TO BE USED ON THE PROJECT.

BIDDING DOCUMENTS

1. ELECTRONIC AND HARD COPY BIDDING DOCUMENTS MAY BE OBTAINED AT THE BIDDER'S EXPENSE.
2. SEE THE INVITATION TO BIDDERS FOR INSTRUCTIONS ON HOW TO OBTAIN BIDDING DOCUMENTS.
3. NO DEPOSIT WILL BE REQUIRED.

INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

1. BIDDERS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY, OR ERROR WHICH THEY MAY DISCOVER UPON EXAMINATION OF THE BIDDING DOCUMENTS OR OF THE SITE AND LOCAL CONDITIONS.
2. BIDDERS REQUIRING CLARIFICATION OR INTERPRETATION OF THE BIDDING DOCUMENTS SHALL MAKE A WRITTEN B.C.R. TO THE ARCHITECT, TO REACH HIM AT LEAST TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. NO REQUEST SHALL BE HONORED AFTER THAT TIME.
   a. ANY INTERPRETATION, CORRECTION OR CHANGE OF BIDDING DOCUMENTS WILL BE MADE BY ADDENDUM.
   INTERPRETATIONS, CORRECTIONS OR CHANGES OF BIDDING DOCUMENTS MADE IN ANY OTHER MANNER WILL NOT BE BINDING, AND BIDDERS SHALL NOT RELY UPON SUCH INTERPRETATIONS, CORRECTIONS, AND CHANGES.

SUBSTITUTIONS

1. THE MATERIALS, PRODUCTS, AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENT TO ESTABLISH A STANDARD OF REQUIRED FUNCTION, DIMENSION, APPEARANCE, AND QUALITY ARE TO BE MET BY ANY PROPOSED SUBSTITUTION. NO SUBSTITUTIONS SHALL BE ALLOWED AFTER BIDDING UNLESS THE MATERIALS, PRODUCTS, OR EQUIPMENT HAVE BEEN DISCONTINUED AND ARE NO LONGER AVAILABLE.
2. NO SUBSTITUTION WILL BE CONSIDERED UNLESS A WRITTEN REQUEST FOR APPROVAL HAS BEEN SUBMITTED BY THE PROPOSER AND HAS BEEN RECEIVED BY KA AT LEAST TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED AND A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE INCLUDING MODEL NUMBERS, DRAWINGS, CUTS, PERFORMANCE AND TEST DATA ANY OTHER INFORMATION NECESSARY FOR ANY EVALUATION. A STATEMENT SETTING FORTH ANY CHANGES IN OTHER MATERIALS, EQUIPMENT OR WORK THAT INCORPORATION OF THE SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED. IT SHALL BE THE RESPONSIBILITY OF THE PROPOSER TO INCLUDE IN THE PROPOSAL WITH ALL CHANGES REQUIRED OF THE CONTRACT DOCUMENTS IF THE PROPOSED PRODUCT IS USED. PRIOR APPROVAL IS GIVEN CONTINGENT UPON THE SUPPLIER BEING RESPONSIBLE FOR ANY COSTS WHICH MAY BE NECESSARY TO MODIFY THE SPACE OR FACILITIES NEEDED TO ACCOMMODATE THE MATERIALS AND EQUIPMENT APPROVED.
3. IF KA APPROVES ANY PROPOSED SUBSTITUTION, SUCH APPROVAL WILL BE SET FORTH IN AN ADDENDUM. BIDDER SHALL NOT RELY UPON APPROVALS MADE IN ANY OTHER MANNER.

ADDENDA

1. ADDENDA WILL BE EMAILED TO ALL WHO ARE KNOWN BY KA TO HAVE RECEIVED A COMPLETE SET OF BIDDING DOCUMENTS.
2. ADDENDA SHALL NOT BE ISSUED WITHIN A PERIOD OF SEVENTY-TWO (72) HOURS PRIOR TO THE ADVERTISED TIME FOR THE OPENING BIDS, EXCLUDING SATURDAYS, SUNDAYS, AND ANY OTHER LEGAL HOLIDAYS; HOWEVER, IF THE NECESSITY ARISES TO ISSUE AN ADDENDUM MODIFYING PLANS AND SPECIFICATIONS WITHIN THE SEVENTY-TWO (72) HOUR PERIOD PRIOR TO THE ADVERTISED TIME FOR THE OPENING OF BIDS, THEN THE DATE OPENING OF BIDS SHALL BE EXTENDED.
3. THE OWNER SHALL HAVE THE RIGHT TO EXTEND THE BID DATE. BIDDER SHALL ASCERTAIN FROM KA PRIOR TO SUBMITTING THEIR BID THAT THEY RECEIVED WITH ALL ADDENDA ISSUED, AND THEY SHALL ACKNOWLEDGE THEIR RECEIPT ON THE BID FORM.

CORRELATION AND INTENT OF CONTRACT DOCUMENTS

1. TO FURTHER DEFINE THE INTENT OF ARTICLE 3-2 OF THE AIA DOCUMENT A201 GENERAL CONDITIONS, IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE PLANS, AND WITHIN THE SPECIFICATIONS, THE CONTRACTOR SHALL BID THE MORE COSTLY (OF MONETARY VALUE) OF THE CONFLICTING INFORMATION; THE CONTRACTOR SHALL REQUEST VERIFICATION AND CLARIFICATION OF THE CONFLICTING INFORMATION PRIOR TO COMMENCEMENT OF THE WORK AT THE PRECONSTRUCTION MEETING. THESE REQUIREMENTS SET FORTH HEREIN SHALL NOT APPLY IF THE ITEMS IN QUESTION HAVE BEEN ADDRESSED, CLARIFIED, AND/OR CORRECTED BY ADDENDUM.

BIDDING PROCEDURE

1. FORM AND STYLE OF BIDS:
   a. THE BID SHALL INCLUDE THE LEGAL NAME OF BIDDER AND STATEMENT WHETHER BIDDER IS A SOLE PROPRIETOR, A PARTNERSHIP, A CORPORATION, OR ANY OTHER LEGAL ENTITY, AND THE BID SHALL BE SIGNED BY THE PERSON OR PERSONS LEGALLY AUTHORIZED TO BIND THE BIDDER TO A CONTRACT. A BID SUBMITTED BY AN AGENCY SHALL HAVE A CURRENT POWER OF ATTORNEY ATTACHED CERTIFYING AGENT'S AUTHORITY TO BIND BIDDER. THE NAME AND LICENSE NUMBER ON THE ENVELOPE SHALL BE THE SAME AS ON THE BID FORM.
   b. THE CONTRACTOR SHALL CERTIFY THAT THEY ARE LICENSED AND SHOW THE LICENSE NUMBER ON THE BID ABOVE THE SIGNATURE OR THE DULY AUTHORIZED REPRESENTATIVE.
2. BID SECURITY:
   a. NO BID SECURITY IS REQUIRED, UNLESS OTHERWISE NOTED.
3. BIDS SHALL REMAIN VALID AND SUBJECT TO ACCEPTANCE FOR A MINIMUM PERIOD OF 45 CALENDAR DAYS FROM THE BID DUE DATE.

CONSIDERATION OF BIDS

1. OPENING OF BID - THE PROPERLY IDENTIFIED BIDS RECEIVED ON TIME WILL BE OPENED PRIVATELY.
2. REJECTION OF BID - THE OWNER SHALL HAVE THE RIGHT TO REJECT ANY OR ALL BIDS AND IN PARTICULAR TO REJECT A BID NOT ACCOMPANIED BY ANY REQUIRED BID SECURITY OR DATA REQUIRED BY THE BIDDING DOCUMENTS OR A BID IN ANY WAY INCOMPLETE OR IRREGULAR.
3. ACCEPTANCE OF BID - IT IS THE INTENT OF THE OWNER, IF THEY ACCEPT ANY ALTERNATES, TO ACCEPT THEM IN THE ORDER IN WHICH THEY ARE LISTED IN THE BID FORM. DETERMINATION OF THE LOW BIDDER SHALL BE BASED ON THE SUM OF THE BASE BID AND THE ALTERNATES ACCEPTED, HOWEVER, THE OWNER SHALL RESERVE THE RIGHT TO ACCEPT ALTERNATES IN ANY ORDER WHICH DOES NOT AFFECT THE DETERMINATION OF LOW BIDDER.

POST-BID INFORMATION

1. SUBMISSIONS:
   a. PRE-CONSTRUCTION CONFERENCE: CONTRACTOR SHALL SUBMIT THE FOLLOWING INFORMATION TO THE ARCHITECT:
      1. A DESIGNATION OF THE WORK TO BE PERFORMED BY THE CONTRACTOR WITH THE OWN FORCES.
      2. A BREAKDOWN OF THE CONTRACT COST ATTRIBUTABLE TO EACH ITEM LISTED IN THE SCHEDULE OF VALUES FORM A.I.A.. G703.
      3. THE PROPRIETARY NAMES AND THE SUPPLIERS OF PRINCIPAL ITEMS OR SYSTEMS OF MATERIAL AND EQUIPMENT PROPOSED FOR THE WORK.
      4. A LIST OF NAMES AND BUSINESS DOMICILES OF ALL SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS OR OTHER PERSONS OR ORGANIZATIONS (INCLUDING THOSE WHO ARE TO FURNISH MATERIALS OR EQUIPMENT FABRICATED TO A SPECIAL DESIGN) PROPOSED FOR THE PRINCIPAL PORTIONS OF THE WORK.
   b. THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH TO THE SATISFACTION OF WORKER SAFETY THE RELIABILITY AND RESPONSIBILITY OF THE PROPOSED SUBCONTRACTORS TO FURNISH AND PERFORM THE WORK DESCRIBED IN THE SECTIONS OF THE SPECIFICATIONS PERTAINING TO SUCH PROPOSED SUBCONTRACTOR'S RESPECTIVE TRADES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTIONS OR INACTIONS OF SUBCONTRACTORS AND/OR MATERIAL SUPPLIER. THE GENERAL CONTRACTOR IS TOTALLY RESPONSIBLE FOR ANY LOST TIME OR EXTRA EXPENSE INCURRED DUE TO A SUBCONTRACTOR'S OR MATERIAL SUPPLIER'S FAILURE TO PERFORM. FAILURE TO PERFORM INCLUDES A SUBCONTRACTOR'S FINANCIAL FAILURE, ABANDONMENT OF THE PROJECT, OR FAILURE TO DO WORK UP TO STANDARD. UNDER NO CIRCUMSTANCES SHALL THE OWNER MITIGATE THE GENERAL CONTRACTOR'S LOSSES OR REIMBURSE THE GENERAL CONTRACTOR FOR LOSSES CAUSED BY THESE EVENTS.
   c. SUBCONTRACTORS AND OTHER PERSONS AND ORGANIZATIONS SELECTED BY THE BIDDER MUST BE USED ON THE WORK FOR WHICH THEY WERE PROPOSED AND SHALL NOT BE CHANGED EXCEPT WITH THE WRITTEN APPROVAL OF THE OWNER AND THE ARCHITECT.

FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

1. FORM TO BE USED: A.I.A. CONTRACT A SERIES STIPULATED SUM
2. AWARD: AT THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL FURNISH A SCHEDULE OF VALUES FOR THE PROJECT. A.I.A. FORM 6703.

COMPLETION TIME AND LIQUIDATE DAMAGES

1. THE COMPLETION OF THE CONTRACT MUST BE WITHIN THE TIME STATED ON THE BID FORM, SUBJECT TO SUCH EXTENSIONS AS MAY BE GRANTED UNDER PARAGRAPH 8.3, "DELAYS AND EXTENSIONS OF TIME" IN THE GENERAL CONDITIONS AND THE SUPPLEMENTARY CONDITIONS, OR THE CONTRACTOR WILL BE SUBJECT TO PAY THE OWNER LIQUIDATED DAMAGES IN THE AMOUNT AS STATED BELOW.
2. CONTRACT TIME = 120 DAYS; LIQUIDATED DAMAGES = $250/DAY

CONSTRUCTION DOCUMENTS - DRAWINGS AND SPECIFICATIONS

1. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE THE COST OF ANY AND ALL REQUIRED SETS OF CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) THAT WILL BE REQUIRED FOR THE COMPLETION OF THE JOB. COPIES OF CONTRACT DOCUMENTS WILL NOT BE SUPPLIED BY KA OR THE OWNER. PDFs WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST, OR SETS MAY BE ORDERED FROM LOCAL PRINTING SERVICE.

OWNER'S CONTRACTORS

1. THE CONTRACTOR SHALL COORDINATE WORK BY THE OWNER'S CONTRACTORS DURING THE CONTRACT PERIOD INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   a. SECURITY
   b. DATA CABLING
   c. FURNITURE

01 GENERAL REQUIREMENTS

01000 GENERAL

LICENSES:

1. ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS SHALL BE LICENSED AS PER STATE LAWS TO PERFORM THE RELATED CONSTRUCTION WORK.
2. CONTRACTORS THAT ARE PRICING OR UNDERTAKING WORK ON DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (D.O.T.D.) RIGHT-OF-WAYS SHALL BE SPECIFICALLY PRE-APPROVED BY THE D.O.T.D. TO PERFORM SUCH WORK. THE CONTRACTOR SHALL PROVIDE ALL BONDS REQUIRED TO PERFORM WORK ON RELATED RIGHT-OF-WAY.
3. CONTRACTORS PRICING OR UNDERTAKING WORK ON UTILITY EASEMENTS SHALL BE SPECIFICALLY PREAPPROVED BY THE RELATED UTILITY COMPANY TO PERFORM SUCH WORK. THE CONTRACTOR SHALL PROVIDE ALL BONDS REQUIRED TO PERFORM WORK ON RELATED RIGHT-OF-WAY OR EASEMENT.

PERMITS AND FEES:

1. UNLESS NOTED OTHERWISE ELSEWHERE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL PLANS AND DOCUMENTS TO PERMITTING AGENCIES AS NEEDED TO OBTAIN ALL PERMITS AND APPROVALS AS REQUIRED BY STATE LAW AS PER THE TYPE OF PROJECT BEING UNDERTAKEN. SUCH PERMITTING AGENCIES TO INCLUDE: STATE NOTICE OF INTENT AND NOTICE OF TERMINATION (N.O.I. & N.O.T.), FEDERAL AGENCIES (AS MAY BE APPLICABLE), LOCAL UTILITY DEPARTMENTS, LOCAL PLANNING AND ZONING DEPARTMENT, FIRE MARSHAL, AND OTHER AUTHORITIES AS MAY BE REQUIRED.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR THE FOLLOWING:
   a. CONSTRUCTION PERMITS.
   b. ANY UTILITY SERVICE: TEMPORARY SERVICE, LOCATE, DISCONNECT, RELOCATION, CONNECTION/TAP, VAULTS, CONDUITS, METERS, TAP FEES, BORING, TRENCHING, PATCHING.
   c. BONDS OR OTHER INSURANCES AS REQUIRED BY STATE D.O.T.D. OR UTILITY COMPANY.
   d. IMPACT FEES AS MAY BE DESCRIBED HEREIN.
3. THE GENERAL CONTRACTOR SHALL COORDINATE AND INCLUDE ANY WORK RELATED TO PLAN REVIEW COMMENTS MADE BY PERMITTING OFFICIALS

BUILDING DRAWINGS

1. DRAWINGS ARE INTENDED TO PROVIDE A BASIS FOR COMPLETION OF WORK SUITABLE FOR THE INTENDED USE OF THE OWNER. ANYTHING NOT EXPRESSLY SET FORTH BUT WHICH IS REASONABLY IMPLIED OR NECESSARY FOR PROPER PERFORMANCE OF THE PROJECT SHALL BE INCLUDED AND PROVIDED AT NO ADDITIONAL COSTS.
2. ALL SUBCONTRACTORS AND SUPPLIERS SHALL REVIEW THE **ENTIRE SET OF CONSTRUCTION DOCUMENTS** TO COORDINATE WORK OF THEIR PARTICULAR TRADE. SUCH PLAN REVIEW SHALL **NOT** BE LIMITED TO ONLY THE TRADITIONAL TRADE DRAWINGS.
3. IF ANY TWO OR MORE CONDITIONS REFLECT CONFLICTING DATA, DETAIL, OR INSTRUCTION, THE MOST "STRICT" OR "COSTLY" ITEM SHALL PREVAIL IN TERMS OF CONTRACTOR PRICING. PRIOR TO START OF RELATED WORK, SUCH CONFLICTING ITEMS SHALL BE COORDINATED FOR RESOLUTION.
4. PLAN COPIES – THE CONTRACTOR SHALL PAY FOR ALL PLAN PRINTING AS NEEDED FOR PERMIT SUBMITTALS AND GENERAL WORK. DIGITAL (PDF) COPIES OF "BUILDING" PLANS CAN BE PROVIDED BY THE OWNER FOR USE ON THIS PROJECT ONLY.
5. THE ARCHITECT AND/OR THE ENGINEERS MAKE NO GUARANTEES ON THE ACCURACY OF SCALE OF ANY DIGITAL DRAWING FILES.
6. ALL BUILDING PLANS AND DIGITAL/CAD FILES REMAIN THE PROPERTY OF THE RELATED ARCHITECT OR ENGINEER. DO NOT REUSE PLANS ON ANY OTHER PROJECT OR LOCATION.
7. DO NOT SCALE THE DRAWINGS FOR ANY CRITICAL DIMENSIONS.
8. CONTACT THE CIVIL ENGINEER FOR INFORMATION REGARDING THE PROCESS AND RELATED COSTS FOR OBTAINING: CIVIL CUT/FILL CALCS, CIVIL POINT FILES, AND CIVIL CAD FILES.
9. THE ARCHITECT ASSUMES THAT THE PERMIT PLAN REVIEW BY THE AUTHORITIES HAVING JURISDICTION (AHJ) IS THOROUGH, ACCURATE, AND COMPLETE. ANY CHANGES REQUESTED BY THE AHJ OR REQUIRED AS A RESULT OF REVIEWS/INSPECTIONS MADE BY AHJ AFTER PROJECT PERMITTING SHALL BE DEEMED A "LEGITIMATE" CHANGE ORDER. THE ARCHITECT OR ENGINEER WILL ASSUME NO RESPONSIBILITY FOR ANY COSTS RELATING TO SUCH CHANGES.
   a. OPERATING AND MAINTENANCE MANUALS FOR ANY LIFE SAFETY EQUIPMENT PRESENT INCLUDING: FIRE EXTINGUISHERS, FIRE ALARM, FIRE SPRINKLER, SMOKE DETECTION AND/OR HAZARDOUS GAS DETECTION.
   b. SPARE PARTS
   c. ORIGINAL COPY OF THE CERTIFICATE OF OCCUPANCY (OBTAINED AT SUBSTANTIAL COMPLETION).
   d. NOTARIZED LETTER FROM CONTRACTOR'S INSURER THAT INSURANCES WILL BE MAINTAINED FOR A PERIOD OF 1 YEAR BEYOND FINAL PAYMENT.
   e. COPIES OF N.O.I. AND N.O.T. AS APPROVED BY ENVIRONMENTAL PRODUCT DECLARATION (E.P.D.).

01 30 00 ADMINISTRATIVE REQUIREMENTS

1. PROJECT WEBSITE FOR HOSTING AND MANAGING PROJECT COMMUNICATION AND DOCUMENTATION THROUGH FINAL COMPLETION VIA WWW.CENTERLINE.CO OR APPROVED EQUAL PROVIDED BY CONTRACTOR.
   A. PROJECT WEB SITE MUST BE USED TO CONDUCT TRANSACTIONAL COMMUNICATION AMONG THE OWNER, ARCHITECT, AND CONTRACTOR FOR THE FOLLOWING TYPES OF DOCUMENTS:
      a. DRAWINGS & SPECIFICATIONS, WITH VERSION CONTROL
      b. ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (ASIs)
      c. SUBMITTALS
      d. REQUEST FOR INFORMATION (RFI)
      e. CHANGE ORDERS
      f. CONSTRUCTION CHANGE DIRECTIVES
      g. POTENTIAL CHANGE ORDERS
      h. REQUESTS FOR CHANGE
      i. CHANGE PROPOSAL REQUESTS (CPR)
      j. PAY APPLICATIONS (DRAFTS AND / OR RECORDED FINAL)
      k. FIELD REPORTS
      l. AS-BUILT DRAWING MANAGEMENT
      m. CLOSEOUT SUBMITTAL TRACKING
      n. O&M DATA COLLECTION
      o. CLEAR L&P / SUBSTANTIAL COMPLETION CERTIFICATE
   B. ALL DOCUMENTS TRANSMITTED FOR PURPOSES OF ADMINISTRATION OF THE CONTRACT ARE TO BE IN ELECTRONIC (PDF) FORMAT AND TRANSMITTED VIA THE PROJECT WEB SITE THAT RECEIVES, LOGS, STORES, AN DISTRIBUTES DOCUMENTS AND NOTIFIES APPROPRIATE PROJECT TEAM MEMBERS VIA AUTOMATED EMAIL.
      a. PAPER DOCUMENT TRANSMITTALS WILL NOT BE REVIEWED; EMAILED PDF DOCUMENTS WILL NOT BE REVIEWED.
      b. ALL OTHER SPECIFIED SUBMITTAL AND DOCUMENT TRANSMISSION PROCEDURES APPLY, EXCEPT THAT ELECTRONIC DOCUMENT REQUIREMENTS DO NOT APPLY TO PHYSICAL SAMPLES OR COLOR SELECTION CHARTS. RECORD OF TRANSMITTAL OF SUCH PHYSICAL ITEMS IS TO BE MADE THROUGH THE PROJECT WEB SITE. ARCHITECT'S ACTION TAKEN ON PHYSICAL ITEM WILL BE TRANSMITTED THROUGH THE PROJECT WEB SITE, AND PHYSICAL SAMPLE AND COLOR SELECTION CHARTS WILL NOT BE RETURNED TO THE CONTRACTOR.
   C. CONTRACTOR, ARCHITECT, AND OWNER ARE REQUIRED TO USE THE PROJECT WEB SITE. INDIVIDUAL USER ACCOUNTS AND SYSTEM ACCESS FOR GENERAL CONTRACTOR, OWNER STAFF, DESIGN TEAM STAFF WILL BE PROVIDED AT NO ADDITIONAL COST.
   D. COST: THE COST OF THE PROJECT WEB SITE ACCESS FOR ALL PARTIES IS TO BE PAID BY THE DESIGNER OF RECORD; DO NOT INCLUDE ANY ADDITIONAL COST FOR THE PROJECT WEB SITE IN THE CONTRACT SUM. IF APPROVED EQUAL IS CHOSEN, THE COST IS TO BE COVERED BY THE GC.
   E. PROJECT CLOSEOUT: DESIGNER OF RECORD WILL DETERMINE WHEN TO TERMINATE THE PROJECT WEB SITE FOR THE PROJECT
   F. CONTACT CHUCK PERRET FOR INFORMATION: CHUCK@CENTERLINE.CO

2. **SUBMITTALS FOR REVIEW**
   1. KA SHALL REVIEW AND APPROVE, OR TAKE OTHER APPROPRIATE ACTION UPON, THE CONTRACTOR'S SUBMITTALS SUCH AS SHOP DRAWINGS PRODUCT DATA AND SAMPLES, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW OF SUCH SUBMITTALS IS NOT FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER INFORMATION SUCH AS DIMENSIONS, QUANTITIES, AND INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS WHICH ARE THE CONTRACTOR'S RESPONSIBILITY. KA'S REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. THE ARCHITECT'S APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.
   2. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM FOR REVIEW.
      a. PRODUCT DATA
      b. SHOP DRAWINGS
      c. SAMPLES FOR SELECTION
      d. SAMPLES FOR VERIFICATION
   3. SUBMIT TO KA (FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.
   4. SAMPLES WILL BE REVIEWED ONLY FOR AESTHETIC, COLOR, OR FINISH SELECTION.
   5. AFTER REVIEW, PROVIDE COPIES AND DISTRIBUTE IN ACCORDANCE WITH THE SUBMITTAL PROCEDURE ARTICLE BELOW.
   6. THE CONTRACTOR SHALL REVIEW FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPROVE, AND SUBMIT TO KA SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS, IN ACCORDANCE WITH THE SUBMITTAL SCHEDULE APPROVED BY THE ARCHITECTS, OR IN THE ABSENCE OF AN APPROVED SUBMITTAL SCHEDULE, WITH REASONABLE PROMPTNESS AND IN SUCH SEQUENCE AS TO CAUSE NO DELAY IN THE WORK OR IN THE ACTIVITIES OF THE OWNER OR OF SEPARATE CONTRACTORS.
   7. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE OWNER AND KA THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO, AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.

3. **SUBMITTALS FOR INFORMATION**
   1. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM FOR INFORMATION:
      a. DESIGN DATA
      b. CERTIFICATES
      c. TEST REPORTS
      d. INSPECTION REPORTS
      e. MANUFACTURER'S INSTRUCTIONS
      f. MANUFACTURER'S FIELD REPORTS
      g. OTHER TYPES INDICATED

4. **SUBMITTALS FOR PROJECT CLOSEOUT**
   1. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM AT PROJECT CLOSEOUT:
      a. PROJECT RECORD DOCUMENTS
      b. OPERATION AND MAINTENANCE DATA
      c. WARRANTIES
      d. BONDS
      e. OTHER TYPES AS INDICATED
   2. SUBMIT FOR OWNERS BENEFIT DURING AND AFTER PROJECT COMPLETION.

5. **NUMBER OF COPIES OF SUBMITTALS**
   1. DOCUMENTS FOR REVIEW:
      a. SMALL SIZE SHEETS, NOT LARGER THAN 11 X 17 INCHES: SUBMIT DIGITAL MEDIA IN PDF OR JPG FORM.
      b. LARGER SHEETS, NOT LARGER THAN 30 × 42 INCHES: SUBMIT DIGITAL MEDIA IN PDF OR JPG FORM.
   2. DOCUMENTS FOR PROJECT CLOSEOUT: MAKE ONE REPRODUCTION OF SUBMITTAL ORIGINALLY REVIEWED.
   3. SAMPLES: SUBMIT THE NUMBER SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS; ONE OF WHICH WILL BE RETAINED BY THE ARCHITECT.
      1. RETAINED SAMPLES WILL NOT BE RETURNED TO THE CONTRACTOR.

6. **SUBMITTAL PROCEDURES**
   1. TRANSMIT EACH SUBMITTAL WITH A TRANSMITTAL FORM.
   2. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER, PERTINENT DRAWING AND DETAIL NUMBER, AND SPECIFICATION SECTION NUMBER, AS APPROPRIATE ON EACH COPY.
   3. APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS.
   4. DELIVER SAMPLES TO KA.
   5. FOR EACH SUBMITTAL FOR REVIEW, ALLOW FIVE (5) WORKING DAYS FOR KA REVIEW AND SEVEN (7) WORKING DAYS FOR CONSULTANT'S REVIEW.
   6. WHEN REVISED FOR RESUBMISSION, IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMISSION.
   7. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS AS APPROPRIATE. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS.
   8. SUBMITTALS NOT REQUESTED WILL NOT BE RECOGNIZED OR PROCESSED.

7. **RECORD SET PROCEDURES**
   1. GENERAL CONTRACTOR SHALL ALWAYS MAINTAIN A RECORD SET OF DRAWINGS ON SITE.
   2. PROVIDE KA AND OWNER WITH A COPY OF THE RECORD SET AT THE END OF THE PROJECT.

01 32 00 - CONSTRUCTION PROGRESS DOCUMENTATION

1. WITHIN TEN (10) DAYS AFTER DATE ESTABLISHED IN NOTICE TO PROCEED, SUBMIT PRELIMINARY SCHEDULE.
2. SUBMIT UPDATED SCHEDULE WITH EACH APPLICATION FOR PAYMENT

01 40 00 - QUALITY REQUIREMENTS

1. QUALITY MONITORING: MONITOR QUALITY CONTROL OVER SUPPLIERS, CONDITIONS, AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY AND INSPECTIONS DURING INSTALLATION.
2. STANDARDS: COMPLY WITH SPECIFIED STANDARDS AS MINIMUM QUALITY FOR THE TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS
3. TOLERANCES: MONITOR FABRICATION AND INSTALLATION TOLERANCE CONTROL OF PROD DO NOT PERMIT TOLERANCES TO ACCUMULATE. COMPLY WITH MANUFACTURES TOLERANCE.
4. REFERENCE STANDARDS: FOR PRODUCTS OR WORKMANSHIP SPECIFIED STANDARDS, COMPLY WITH REQUIREMENTS OF THE STANDARD, EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE CODES.
5. MANUFACTURER'S FIELD SERVICES: WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE QUALIFIED STAFF PERSONNEL TO PERFORM THE FOLLOWING AS APPLICABLE, AND TO INITIATE INSTRUCTIONS WHEN NECESSARY:
   a. OBSERVE SITE CONDITIONS
   b. CONDITIONS OF SURFACES AND INSTALLATION
   c. QUALITY OF WORKMANSHIP
   d. START-UP OF EQUIPMENT
   e. TEST, ADJUST, AND BALANCE OF EQUIPMENT
6. MOCK-UPS: WHEN REQUESTED BY THE PROJECT MANAGER, ASSEMBLE

02 EXISTING CONDITIONS

1. WHILE ATTEMPTS ARE MADE TO SHOW EXISTING CONDITIONS AT THIS PROJECT, SUCH PROJECT DATA SHOULD NOT BE CONSIDERED FINAL OR INCLUSIVE OF ALL EXISTING CONDITIONS PRESENT.
2. ALL ENTITIES PRICING THIS PROJECT SHALL UNDERTAKE A THOROUGH 'SITE VISIT' TO VERIFY AND COORDINATE EXISTING CONDITIONS PRIOR TO SUBMITTING PRICING.
3. THE 'SITE VISIT' SHALL INCLUDE A DETAILED INSPECTION AND VERIFICATIONS OF EXISTING CONDITIONS AS MAY BE PRESENT AT:
   a. SITE
   b. SITE UTILITIES
   c. EXISTING BUILDING WALLS, STRUCTURE AND FENESTRATIONS
   d. EXISTING ROOF AND ROOF MOUNTED EQUIPMENT
   e. ATTIC
   f. CRAWLSPACE
   g. LOAD BEARING ASSEMBLIES
   h. AREA ABOVE SUSPENDED CEILINGS
   i. INTERIOR UTILITIES (PLUMBING, ELECTRICAL, HVAC, LOW VOLTAGE, PHONE/DATA, FIRE PROTECTION)
   j. INTERIOR FINISHES (FLOORS, WALLS, CEILINGS, DOORS, HARDWARE, TRIM, CASEWORK)
   k. CODE VIOLATIONS (ANY CODE VIOLATIONS TO BE BROUGHT TO THE ATTENTION OF OWNER UPON DISCOVERY)
4. INCORPORATE EXISTING CONDITIONS WITH THESE PLANS AND NEW WORK TO BE PERFORMED.
5. ANY CONFLICTS OF DISCREPANCIES BETWEEN EXISTING CONDITION AND THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND COORDINATED WITH NEW WORK.
6. INCLUDE ALL WORK REQUIRED AS NEEDED TO MEET DESIGN INTENT OF THESE DRAWINGS.
7. CONTACT OWNER TO VERIFY THE AVAILABILITY OF EXISTING BUILDING DETAILED DRAWINGS.
   a. IF EXISTING BUILDING DRAWING ARE PRESENT, THEN PERFORM A DETAILED REVIEW AND COORDINATION OF SUCH.

02 20 00 - SITE CONDITIONS

(REFERENCE SITE DRAWINGS BY LICENSED CIVIL ENGINEER FOR DATA RELATING TO SITE CONDITIONS AND SITE PREPARATION)

02 41 00 - DEMOLITION (IF REQUIRED)

1. PRIOR TO PRICING, FIELD VERIFY AND COORDINATE ALL CONDITIONS AND WORK REQUIRED.
2. ALL DEMOLITION WORK TO MEET IBC CHAPTER 33 SECTION 3303.
3. ALL DEMOLITION WORK SHALL MEET OSHA REGULATIONS.
4. PRIOR TO START OF ANY DEMOLITION – OBTAIN ALL PERMITS AND INSPECTIONS.
5. UNDERTAKE ALL HAZARDOUS MATERIALS TESTING AS REQUIRED BY LOCAL/STATE REGULATION. IF ANY SUSPECT HAZARDOUS MATERIALS ARE ENCOUNTERED, THEN STOP WORK IN THAT AREA AND NOTIFY OWNER FOR RESOLUTION.
6. ANY HVAC REFRIGERANT, LIQUID PROPANE, NATURAL GAS, OR OTHER HAZARDOUS GASES, LIQUIDS, OR OILS PRESENT SHALL BE "CAPTURED" AND LEGALLY DISPOSED OF AS PER ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) REGULATIONS. FIELD VERIFY ALL RELATED CONDITIONS PRIOR TO START.
7. NO HAZARDOUS MATERIALS SHALL BE DISTURBED, REMOVED, OR DISPOSED OF WITHOUT FOLLOWING ALL E.P.A./E.P.D. CODES AND REGULATIONS AS PER CONDITIONS PRESENT.
8. ADJACENT SURFACES WHICH ARE TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ANY ITEMS WHICH ARE TO REMAIN IN PLACE BUT ARE DAMAGED BY THIS WORK SHALL BE PATCHED OR REPLACED TO MATCH.
9. PROVIDE ALL TEMPORARY WALLS, COVERS, SEALS, AND BARRIERS AS NEEDED TO PROTECT EXISTING BUILDING AREAS FROM INTRUSION OF DUST, WEATHER, VANDALS, OR PESTS. REPLACE/REPAIR TO MATCH (AT NO ADDITIONAL COST TO THE OWNER) ANY DAMAGE CAUSED BY SUCH INTRUSION WHICH IS ATTRIBUTED TO DEMOLITION OR NEW CONSTRUCTION WORK.
10. PROVIDE ALL SAW CUTTING, TRENCHING, EXCAVATION, AND PATCHING.
11. ITEMS NOTED TO BE "REUSED" SHALL BE CAREFULLY REMOVED, STORED, AND COVERED IN CLEAN/SAFE AREA.
12. ITEMS NOTED TO BE "TURNED OVER TO OWNER" SHALL BE DISCONNECTED, CAREFULLY REMOVED, CLEANED, AND DELIVERED IN GOOD WORKING ORDER TO THE OWNER'S STORAGE FACILITY.
13. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF-SITE. MAINTAIN RECEIPT AND ACCEPTANCE OF WASTE/DEBRIS BY APPROVED FACILITY.
14. DO NOT BURN OR BURY ANY DEBRIS ON-SITE.
15. DO NOT CLOSE OR DISRUPT FLOW OF WALKS OR STREETS WITHOUT APPROVAL AND COORDINATION WITH OWNER AND LOCAL AUTHORITIES.
16. PROVIDE ALL UTILITY DISCONNECTION, RELOCATION, AND RECONNECTION AS REQUIRED TO COMPLETE WORK. SCHEDULE SUCH WORK WITH OWNER AND RELATED UTILITY COMPANY.
17. MAINTAIN UTILITY SERVICE TO ALL AREAS REMAINING IN USE (PROTECT FROM DISRUPTION).
18. ANY EXISTING UTILITY ITEMS IN AREA OF DEMOLITION WHICH ARE NOT TO BE MAINTAINED IN WORKING ORDER OR REUSED SHALL BE REMOVED OUTSIDE THE DEMOLITION AREA AND TERMINATED AS PER CODE.
19. MAINTAIN CODE COMPLIANT AND SAFE EGRESS FROM FACILITY AT ALL TIMES.
20. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO PERFORM ALL WORK.
21. PRIOR TO START OF DEMOLITION, FIELD VERIFY AND LOCATE LOAD BEARING ITEMS.
22. PROVIDE ALL SHORING, BRACING, AND SUPPORT AS NEEDED TO PROTECT AND MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE DURING DEMOLITION OR REWORK. SUCH SHORING, BRACING, AND SUPPORTS SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER HIRED BY THE GENERAL CONTRACTOR

03 CONCRETE

(REFERENCE THIRD-PARTY FOUNDATION DESIGN DRAWINGS BY LICENSED STRUCTURAL ENGINEER) PRIOR TO START, COORDINATE LOCATIONS OF ALL ITEMS TO BE INSTALLED IN OR UNDER CONCRETE SLABS WITH ALL DRAWINGS AND OTHER RELATED TRADES.
ALL ITEMS ARE NOT NECESSARILY SHOWN ON THE FOUNDATION PLAN.

03 15 21 - TERMITE TREATMENT

1. PRETREAT ALL GRADE AREAS BENEATH FLOOR SLABS, AT FOUNDATIONS, AND AT CRAWLSPACES (IF PRESENT).
2. MATERIALS AND PROCEDURES FOR TERMITE TREATMENT SHALL BE APPROVED BY THE U.S. DEPARTMENT OF AGRICULTURE AND LOCAL ENVIRONMENTAL HEALTH DEPARTMENT.
3. MEET THE REQUIREMENTS OF THE STATE'S STRUCTURAL PEST CONTROL REGULATIONS.
4. MATERIALS TO BE WATER BASED EMULSIONS UNLESS OTHERWISE NOT ALLOWED BY RELATED GOVERNING REGULATIONS AS PER RELATED INSTALLATION CONDITIONS. IN SUCH CASES PROVIDE TERMITE TREATMENT MATERIALS AND INSTALL METHODS AS APPROVED BY THE RELATED AUTHORITIES AS PER CONDITIONS PRESENT.
5. HANDLE AND APPLY MATERIALS AS SUGGESTED BY THE U.S. DEPARTMENT OF AGRICULTURE.
6. APPLICATOR TO BE LICENSED, CERTIFIED, AND INSURED AS PER STATE/FEDERAL REGULATIONS.
7. PROVIDE A CERTIFICATE OF TREATMENT ALONG WITH A 5 YR. WARRANTY STARTING AT DATE OF SUBSTANTIAL COMPLETION. PROVIDE OWNER WITH ORIGINAL COPY OF CERTIFICATE AND WARRANTY.
   a. WARRANTY AND GUARANTEE SHALL STATE THAT "IF ANY TERMITE INFESTATION IS DISCOVERED WITHIN THE WARRANTY PERIOD ALL AREAS WILL BE RETREATED AND ANY DAMAGE CAUSED BY INFESTATION WILL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE ORIGINAL APPLICATOR."

04 MASONRY (IF REQUIRED)

(REFERENCE THIRD-PARTY FOUNDATION DESIGN DRAWINGS BY LICENSED STRUCTURAL ENGINEER FOR ADDITIONAL DATA)

1. UNITS TO BE CLEAN AND DRY AT INSTALL WITH NO DEFECTS.
2. CONCRETE MASONRY UNITS (CMU): SEE THIRD PARTY STRUCTURAL DRAWINGS BY LICENSED STRUCTURAL ENGINEER.
3. BRICK UNITS SHALL CONFORM TO ASTM C216, GRADE SW.
   a. 3 5/8" W X 2 1/4" H X 7 5/8" L FACE BRICK.
   b. BRICK COLOR AND TEXTURE AS INDICATED ON THE EXTERIOR MATERIAL LEGEND
   c. UNITS TO BE 'NON-EFFLORESCED' TYPE
   d. PROVIDE SPECIAL SHAPE UNITS AS NEEDED TO MEET DESIGN INTENT.
   e. MORTAR SHALL CONFORM TO ASTM C270, ASTM C150. COLOR – AS SPECIFIED HEREIN OR AS SELECTED BY ARCHITECT.
4. THRU-WALL FLASHING ASSEMBLIES:
   a. PERM-A-BARRIER FLASHING BY GRACE OR EQUAL LOCATE CONTINUOUS ALONG BASE OF VENEER WALLS AT DOOR HEADS AND THRESHOLDS, AT WINDOW HEADS AND SILLS, AT PARAPET CAPS, AND AT OTHER LOCATIONS INDICATED HEREIN.
   b. COMPONENTS –
      1. 40 MIL POLYETHYLENE SELF ADHERING MEMBRANE WITH MANUFACTURER'S STANDARD CORNER PIECES, END PIECES, AND MASTIC/ADHESIVES. MORTAR NET ASSEMBLY AS APPROVED BY MEMBRANE MANUFACTURER. WEEPS – 1/4" ROUND POLY TUBING LOCATED AT 32" ON CENTER (O.C.) ALONG BASE OF THRU WALL FLASHING.
   c. INSTALL AS PER MANUFACTURER'S PUBLISHED INSTRUCTIONS AND DETAILS AS PER CONDITIONS PRESENT.
   d. PROTECT FROM DAMAGE BY OTHER TRADES
   e. PROVIDE 5 YEAR WARRANTY COVERING FLASHING MATERIALS.
5. MASONRY DAMPPROOFING (AT EXTERIOR MULTI-WYTHE: MASONRY OR CAST-IN-PLACE CONCRETE WALLS)
   a. PROVIDE BITUMINOUS DAMPPROOFING AT EXTERIOR FACE OF THE INTERIOR WYTHE, AT EXTERIOR MULTI-WYTHE: MASONRY OR CAST-IN-PLACE CONCRETE WALL ASSEMBLIES.
   b. PRODUCTS: BASF MASTERSEAL 615 OR EQUAL. COMPLY WITH VOLATILE ORGANIC COMPOUND (V.O.C.) REGULATIONS. COMPLY WITH APPLICABLE REGULATIONS CONTROLLING V.O.C. LEVELS. PREPARE SURFACES AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
6. MASONRY REINFORCING
   a. VERTICAL CELL REINFORCING – SEE STRUCTURAL DRAWINGS BY OTHERS.
   b. SINGLE MASONRY WALLS – SEE STRUCTURAL DRAWINGS BY OTHERS.
   c. MASONRY VENEER ANCHORS – PRODUCTS TO BE APPROVED BY THE TIE MANUFACTURER FOR RELATED INSTALLATION CONDITIONS.
      1. LOCATE A MINIMUM OF 16" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY.
      2. SECURE TO APPROVED STRUCTURAL WALL ELEMENTS WITH APPROVED CORROSION RESISTANT FASTENERS AS SPECIFIED BY THE MASONRY TIE MANUFACTURER AS PER CONDITIONS PRESENT.
   d. LINTEL/HEADER STRUCTURE – SEE STRUCTURAL DRAWINGS BY OTHERS.
7. MASONRY INSTALLATION
   a. PRIOR TO START, REVIEW ALL DRAWINGS TO COORDINATE LOCATIONS AND CONDITIONS OF OTHER ITEMS WHICH MAY MOUNT IN, ON, OR BEHIND MASONRY CONSTRUCTION INCLUDING: INSERTS, SUPPORTS, EQUIPMENT, BLOCK-OUTS, ANCHORS, REBAR, GROUT, MEP UTILITY ITEMS, FLASHING, ETC.. CUTTING-IN AFTER THE MASONRY INSTALL SHOULD BE AVOIDED.
   b. LAY UNITS IN RUNNING BOND PATTERN UNLESS INDICATED OTHERWISE ELSEWHERE. LAY IN UNIFORM, EVEN, LEVEL, PLUM, AND TRUE. ALIGN JOINTS AS PER BOND PATTERN. JOINTS TO BE TOOLED "U" JOINT UNLESS INDICATED OTHERWISE ELSEWHERE.
   c. DO NOT LAY MASONRY WHEN TEMPERATURE IS BELOW 45 DEGREES FAHRENHEIT. UNLESS TEMPERATURE IS RISING. AT NO TIME LAY MASONRY WHEN TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.
   d. COVER TOPS OF WALLS AT ENDS OF EACH DAY WITH NON-STAINING MATERIAL AS REQUIRED TO PREVENT INFILTRATION OF WEATHER/WATER INTO MASONRY AND CAVITIES.
   e. (3) STACKED BRICKS AND (3) 3/8" JOINTS TO EQUAL 8" H. (1) CMU AND (1) 3/8 " JOINT TO EQUAL 8" H.
   f. LOCATE CONTROL JOINTS (C.J.) AND EXPANSION JOINTS (E.J.) AS RECOMMENDED BY NCMA (1:5:1 MAXIMUM RATIO OF PANEL SIZE OR 25 FEET MAXIMUM HORIZONTAL SPACING), UNLESS NOTED OTHERWISE, ALIGN CMU JOINTS BEARING ON SLABS WITH THE SLAB JOINTS OR PROVIDE CONTINUOUS BOND BEAM AT THE FIRST COURSE OF BLOCK ACROSS FLOOR JOINT AND FOR 4' MINIMUM EACH SIDE OF SLAB JOINT. BOND BEAM REINFORCING AT FRAMED FLOORS AND FLOOR LEVEL SHALL BE CONTINUOUS THROUGH THE WALL C.J.. LOCATE JOINTS SO AS TO PROVIDE CONSISTENT, SYMMETRICAL APPEARANCE.
   g. PROVIDE ALL TEMPORARY SHORING BRACING, LIFTS, AND SCAFFOLDING NEEDED FOR SAFE AND PROFESSIONAL INSTALL.
   h. REPOINT DEFECTIVE MASONRY JOINTS
   i. CLEAN MASONRY AT COMPLETION USING MATERIALS AND METHODS AS APPROVED BY MASONRY MANUFACTURER PER CONDITIONS PRESENT. PROTECT SURROUNDING ITEMS FROM STAINING OR DAMAGE. PRETEST CLEANING MATERIALS AND METHODS IN SMALL INCONSPICUOUS AREA PRIOR TO START.

05 METALS

05 12 00 - STRUCTURAL STEEL FRAMING

(REFERENCE ANY THIRD-PARTY STRUCTURAL STEEL DESIGN DRAWINGS BY LICENSED STRUCTURAL DESIGNER)

05 50 00 - MISCELLANEOUS STEEL

1. GENERAL MISCELLANEOUS STEEL NOTES:
   a. WELD ALL CONNECTIONS AND GRIND SMOOTH.
   b. ALL CONNECTIONS SHALL BE SUFFICIENT TO TRANSFER ALL LOADING DOWN THROUGH ASSEMBLY TO ADEQUATE SUBSTRATE/SUPPORT/FOUNDATION.
   c. ALL ITEMS TO BE SHOP PRIMED.
   d. CONSTRUCT BASED UPON OWNER APPROVED SHOP DRAWINGS PREPARED BY THE ASSEMBLY MANUFACTURER AND/OR INSTALLER.
   e. THE INSTALLER AND MANUFACTURER SHALL ASSUME FULL RESPONSIBILITY OF THE STRUCTURAL INTEGRITY OF THE RELATED ASSEMBLY.
   f. ALL ASSEMBLIES SHALL MEET STATE BUILDING CODES.
2. LINTEL ANGLES:
   a. SEE STRUCTURAL DRAWINGS BY OTHERS. ALL TO BE SIZED BY LICENSED STRUCTURAL ENGINEER.
3. STEEL RAILINGS:
   a. RAILINGS, POSTS, AND SUPPORTS TO MEET IBC SECTION 1009 THRU 101.3.
   b. HANDRAIL, GUARDRAIL, AND WALL MOUNTED RAIL ASSEMBLIES SHALL RESIST A 50 LB. LOAD AND A 200 LB. CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT THE TOP AND TRANSFER THIS LOAD THROUGH ITS SUPPORTS TO THE STRUCTURE WITHOUT FAILURE OF ANY COMPONENTS OR CONNECTIONS.
   c. INSTALLER TO FIELD TEST RAILING AT INSTALL. ANY COMPONENTS FOUND TO BE SUBSTANDARD SHALL BE REPLACED OR REPAIRED.
   d. RETURN HANDRAILS TO WALL AT ENDS IF NOT PART OF A CONTINUOUS RUN BETWEEN FLIGHTS.
   e. LEVEL HEIGHTS OVER 30"H: SHALL HAVE 42"H GUARDRAILS WITH PICKETS AT 4" O.C. AND HANDRAIL AT 36"H. NO GAPS IN RAILING ASSEMBLY TO BE OVER 4" WIDE.
   f. LEVELS 30"H AND UNDER: SHALL HAVE 36" HIGH STANDARD 3 RAIL SYSTEM. NO PICKETS REQUIRED.
   g. RAILINGS SHALL BE CONTINUOUS ON BOTH SIDES OF STAIR AND RAMP.
   h. POSTS – 1 ½" OUTSIDE DIMENSION (O.D.) STEEL. POSTS RESTING ON CONCRETE SHALL BE SET AND GROUT IN 8" DEEP HOLES. POSTS RESTING ON STEEL SUBSTRATE TO BE WELDED IN PLACE AS PER CONDITIONS PRESENT.
   i. RAILINGS – 1 ½" O.D. STEEL. SHOP WELDED TO POSTS. GRIND SMOOTH. HANDRAIL – MOUNTED (MTD.) 36" HIGH ABOVE FINISHED FLOOR (A.F.F.) GUARDRAIL – MTD. 42" A.F.F. BOTTOM RAIL – MTD. WITHIN 1 ½" OF FINISHED FLOOR ELEVATION (F.F.E.) OR TREAD.
   j. PROVIDE WALL MOUNTING BRACKETS. SECURELY BOLT TO CONCEALED LET-IN WOOD AT STUD WALLS. SECURELY BOLT TO MASONRY WALLS USING EXPANSION BOLTS.
   k. PICKETS – ½" SOLID STEEL, 4" O.C., SHOP WELDED TO RAILS.

06 WOOD, PLASTICS, AND COMPOSITES

06 10 00 - ROUGH CARPENTRY

1. DIMENSIONAL LUMBER SPECIES TO BE SOUTHERN PINE UNLESS OTHERWISE INDICATED.
   a. GRADING AGENCY: ANY GRADING AGENCY WHOSE RULES ARE APPROVED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARD COMMITTEE (WWW.ALSC.ORG) AND WHO PROVIDES GRADING SERVICE FOR THE SPECIES AND GRADE SPECIFIED; PROVIDE LUMBER STAMPED WITH GRADE MARK UNLESS OTHERWISE INDICATED.
   b. LUMBER OF OTHER SPECIES OR GRADES IS ACCEPTABLE PROVIDED STRUCTURAL AND APPEARANCE CHARACTERISTICS ARE EQUIVALENT TO OR BETTER THAN PRODUCTS SPECIFIED.
   c. LUMBER FABRICATED FROM OLD GROWTH TIMBER IS NOT PERMITTED.
   d. GRADING RULES; NELMA, SPIB OR WWPA
   e. GRADE #2 OR SELECTED STRUCTURAL.
   f. SURFACING; SURFACED FOUR SIDES (S4S).
   g. MAXIMUM MOISTURE CONTENT; 19 PERCENT.
   h. FINGER JOINTED, MANUFACTURED USING LOW-EMITTING, UREA FORMALDEHYDE-FREE BINDERS.
   i. CERTIFIED TO FSC STD-04-004.
   j. SIZES: NOMINAL SIZES AS INDICATED ON DRAWINGS.
2. CONSTRUCTION PANELS
   a. ROOF SHEATHING: RATED STRUCTURAL I SHEATHING
      A. EXTERIOR BOND CLASSIFICATION
      B. SPAN RATING: 60
      C. PERFORMANCE CATEGORY: 3/4 PERF CAT.
   b. WALL SHEATHING: PLYWOOD, GRADE C-C EXTERIOR EXPOSURE
3. FASTENERS AND ANCHORS:
   A. METAL AND FINISH: HOT-DIPPED GALVANIZED STEEL COMPLYING WITH ASTM A153/A153M FOR HIGH HUMIDITY AND PRESERVATIVE-TREATED WOOD LOCATIONS, UNFINISHED STEEL ELSEWHERE.
4. BLOCKING, NAILERS, AND SUPPORT
   a. PROVIDE FRAMING AND BLOCKING MEMBERS AS INDICATED OR AS REQUIRED TO SUPPORT FINISHES, FIXTURES, SPECIALTY ITEMS, AND TRIM.
   b. IN FRAMED ASSEMBLIES THAT HAVE CONCEALED SPACES, PROVIDE SOLID WOOD FIREBLOCKING AS REQUIRED BY APPLICABLE LOCAL CODE. TO CLOSE CONCEALED DRAFT OPENINGS BETWEEN FLOORS AND BETWEEN TOP STORY AND ROOF/ATTIC SPACE; OTHER MATERIAL ACCEPTABLE TO CODE AUTHORITIES MAY BE USED IN LIEU OF SOLID WOOD BLOCKING.
   c. PROVIDE THE FOLLOWING SPECIFIC NON-STRUCTURAL FRAMING AND BLOCKING:
   d. CABINETS AND SHELF SUPPORTS.
      A. WALL BRACKETS.
      B. GRAB BARS.
      C. TOWEL AND BATH ACCESSORIES.
      D. WALL-MOUNTED DOOR STOPS.
      E. WALL PANELING AND TRIM.
      F. JOINTS OF RIGID WALL COVERINGS THAT OCCUR BETWEEN STUDS.
5. TREATED LUMBER AND PLYWOOD TO COMPLY WITH AWPA U1 - USE CATEGORY SYSTEM FOR WOOD TREATMENTS DETERMINED BY USE CATEGORIES, EXPECTED SERVICE CONDITIONS, AND SPECIFIC APPLICATIONS.
   A. PRESERVATIVE-TREATED WOOD: PROVIDE LUMBER AND PLYWOOD MARKED OR STAMPED BY AN ALSC-ACCREDITED TESTING AGENCY, CERTIFYING LEVEL AND TYPE OF TREATMENT IN ACCORDANCE WITH AWPA STANDARDS.
6. DRAFTSTOPPING DRAFT STOPPING IN ATTIC:
   a. PROVIDE IN NON-SPRINKLERED BUILDINGS WITH COMBUSTIBLE ROOF, CEILING, OR ATTIC FRAMING. TO SUBDIVIDE CONCEALED SPACES SUCH AS ATTICS INTO 3,000 S.F. MAX.COMPARTMENTS TO PREVENT SPREAD OF DRAFTS.
   b. DRAFTSTOPPING IN ATTIC SHALL FORM A CONTINUOUS BARRIER FROM FASCIA AND FROM CEILING TO ROOF DECK.
   c. PASSAGE OPENS IN DRAFTSTOP SHALL BE SELF CLOSING DOORS WITH LATCHES.
7. WHERE WOOD FRAMING BEARS ON CEMENTITIOUS FOUNDATIONS, INSTALL FULL WIDTH SILL FLASHING CONTINUOUS OVER TOP OF FOUNDATION, LAP ENDS OF FLASHING MINIMUM OF 4 INCHES AND SEAL.

06 20 00 - FINISH CARPENTRY

1. PLASTIC LAMINATE: NEMA LD 3, HGS; COLOR AS INDICATED ON DRAWINGS
   a. LAMINATE ADHESIVE: TYPE RECOMMENDED BY MANUFACTURER TO SUIT APPLICATION; NOT CONTAINING FORMALDEHYDE OR OTHER VOLATILE ORGANIC COMPOUNDS.

06 41 00 - ARCHITECTURAL WOOD CASEWORK

1. REFER TO DRAWINGS FOR MILLWORK HARDWARE AND CONSTRUCTION.
2. REFER TO DRAWINGS FOR COUNTERTOP FINISH AND CONSTRUCTION.
   a. BACK AND END SPLASHES TO BE SAME MATERIAL AND CONSTRUCTION.
   b. PROVIDE 10 YEAR MANUFACTURER'S WARRANTY
   c. QUARTZ COUNTERTOPS TO COMPLY WITH ANSI STANDARD 51
   d. EDGE DETAIL AS INDICATED ON DRAWINGS.
   e. JOINT ADHESIVE: TYPE RECOMMENDED BY MANUFACTURER TO SUIT APPLICATION; NOT CONTAINING FORMALDEHYDE OR OTHER VOLATILE ORGANIC COMPOUNDS.
3. QUALITY CONTROL STANDARDS FOR INSTALL SHALL COMPLY WITH AWI "CUSTOM GRADE" TOLERANCES.

07 THERMAL AND MOISTURE PROTECTION

07 10 00 - DAMPPROOFING AND WATERPROOFING

1. PROVIDE DAMPPROOFING, WATERPROOFING, AND VAPOR BARRIERS WHERE SHOWN ON DRAWINGS AND AS INDICATED HEREIN.
2. SLAB ON GRADE FLOOR SLABS – (1) LAYER 6 MIL POLY VAPOR BARRIER, LAP SPLICES 24". TREATMENT AT FLOOR SLABS LOCATED BELOW EXTERIOR GRADE LEVEL SHALL MEET THE REQUIREMENTS OF IBC (LATEST EDITION) SECTION 1807.
3. MULTI-WYTHE MASONRY WALLS – BITUMINUOUS DAMPPROOFING. LOCATE BETWEEN WYTHES.
4. EXTERIOR SHEATHING – MOISTURE/VAPOR RETARDER BARRIER.
   a. PRODUCTS TO BE BREATHABLE MATERIAL WITH PERM. RATING >45 PERMS.
      1. LAYER AT SIDING OR MASONRY APPLICATIONS.
      2. LAYERS AT STONE, STUCCO, OR E.I.F.S. APPLICATIONS.
         a. VAPOR BARRIERS WHICH ARE PART OF STUCCO, E.I.F.S., OR ARCHITECTURAL WALL PANEL ASSEMBLIES SHALL BE AS APPROVED BY THE RELATED MANUFACTURER.
         b. PROVIDE "LIQUID APPLIED" SYSTEMS WHERE INDICATED OR AS RECOMMENDED BY EXTERIOR VENEER MANUFACTURER.
5. CRAWLSPACES (WHERE CRAWLSPACE GRADE IS BELOW ADJACENT FINISH GRADE) – PROVIDE WATERPROOFING ASSEMBLIES AS REQUIRED. PROVIDE "MUD SLAB" TO COVER ENTIRE CRAWLSPACE AREA, SLOPE TO SUMP PIT WITH PUMP. PROVIDE FLOW SWITCH WITH ALARM LIGHT INDICATOR TO ALERT BUILDING OPERATORS WHEN PUMP IS ENGAGED. PUMP WATER TO OUTFLOW PER CODE.
6. WHERE ANY CONDITIONS ARE ENCOUNTERED WHICH ARE NOT CLEARLY DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS. THEN INSTALLER SHALL CONTACT MANUFACTURER AND OBTAIN DETAILED INSTRUCTIONS/PROCEDURES FOR CORRECT INSTALL.
7. FLASHINGS: PROVIDE ALL FLASHINGS AS SUGGESTED BY MANUFACTURER, LOCATE AND INSTALL AS PER MANUFACTURER INSTRUCTION. INSTALL JAMB AND SILL FLASHINGS PRIOR TO INSTALL OF DOORS AND WINDOWS. INSTALL HEAD FLASHINGS IMMEDIATELY AFTER INSTALL OF DOORS AND WINDOWS. FLASH ALL WALL TOPS, EDGES, EDGES AT DISSIMILAR ITEMS, PENETRATIONS, ALONG WALL BASE, AND OTHER LOCATIONS AS RECOMMENDED BY ASSEMBLY MANUFACTURER. FLASHINGS SHALL DIRECT WATER/MOISTURE TO EXTERIOR NOT INTERIOR.
8. SEALANTS/CAULKS: SEAL AND CAULK JOINTS AND EDGES AS PER MANUFACTURER RECOMMENDATIONS.
9. EXPANSION JOINTS (E.J.) – PROVIDE E.J. WHERE E.I.F.S. MEETS DISSIMILAR MATERIALS AND ALONG CHANGES IN SUBSTRATE MATERIAL. PROVIDE BACKER ROD AND SEAL AS PER MFR. RECOMMENDATIONS.
10. WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WARRANTIES.

07 20 00 - THERMAL PROTECTION

1. INSULATE WALLS AROUND AND CEILING/ROOF ABOVE "CONDITIONED" SPACES.
2. DO NOT INSTALL ANY INSULATION UNTIL ALL DANGER OF MOISTURE INFILTRATION IS RESOLVED, EXTERIOR WALLS ARE ENCLOSED TO PREVENT MOISTURE INFILTRATION, AND EXTERIOR DOORS AND WINDOWS ARE INSTALLED.
3. ALL ASSEMBLIES SHALL MEET STATE ENERGY CODE (INTERNATIONAL ENERGY CONSERVATION CODE WITH ALL STATE AMENDMENTS AND SUPPLEMENTS).
4. STORE, HANDLE, AND INSTALL ALL ASSEMBLIES AS PER INSULATION MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT.
5. INSULATION, FACINGS, AND VAPOR BARRIERS SHALL HAVE FLAME SPREAD INDEX < 25 AND SMOKE DEVELOPED INDEX < 450 UNLESS SPECIFICALLY OTHERWISE ALLOWED BY LOCAL/STATE BUILDING CODES.
6. THERMAL INSULATION SHALL BE INSTALLED TO CREATE A CONTINUOUS BARRIER AROUND ENTIRE BUILDING ENVELOPE WITH NO UNSEALED OR NON-APPROVED PENETRATIONS.
7. INSTALL WALL INSULATION CONTINUOUS FROM BOTTOM OF WALL TO TOP. FORMING A CONTINUOUS INSULATION ENVELOPE FROM FLOOR TO CEILING OR ROOF INSULATION. DO NOT COMPRESS.
8. INSTALL ROOF/CEILING INSULATION CONTINUOUS FROM EXTERIOR INSULATED WALL TO WALL FORMING A CONTINUOUS INSULATION ENVELOPE. DO NOT COMPRESS.
9. PROVIDE ALL HANGERS, STRAPS, RODS, TAPE, MISCELLANEOUS FRAMING, AND FASTENERS AS REQUIRED TO PERMANENTLY SUPPORT INSULATION IN PLACE AS DIRECTED BY INSULATION MANUFACTURER. AS PER CONDITIONS PRESENT.
10. PROVIDE ALL "VAPOR BARRIERS" AS RECOMMENDED BY STATE ENERGY CODE AND INTERNATIONAL MECHANICAL CODE (IMC) AS PER CONDITIONS PRESENT. ASSEMBLIES SHALL BE PLENUM RATED WHERE LOCATED EXPOSED IN CONCEALED SPACES. FLAME SPREAD INDEX < 25 AND SMOKE - DEVELOPED INDEX < 450 UNLESS SPECIFICALLY OTHERWISE ALLOWED BY LOCAL/STATE BUILDING CODES.
11. PROVIDE INSULATION BAFFLES WHERE NEEDED TO MAINTAIN ADEQUATE UNOBSTRUCTED CROSS VENTILATION OF UNCONDITIONED SPACES.
12. SEAL ALL CRACKS AND JOINTS FOR PROPER WEATHER AND AIR SEAL.
13. ANY INSULATION BECOMING WET SHALL BE REPLACED WITH NEW OR REMEDIED AS PER WRITTEN INSTRUCTIONS FROM THE INSULATION MANUFACTURER. ALL DOCUMENTATION SHALL BE PROVIDED TO THE OWNER.

1. FIBERGLASS BATT INSULATION:
   a. PRODUCTS: FIBERGLASS BATTS BY OWENS CORNING OR EQUAL. ALL PRODUCTS TO BE APPROVED BY MANUFACTURER FOR RELATED INSTALL.
   b. SIZE: THICKNESS AS INDICATED ON DRAWINGS OR AS REQUIRED TO MEET ENERGY CODE (USE WHICHEVER R VALUE OR THICKNESS IS GREATER
   c. WIDTH – MATCH STUD, JOIST, OR RAFTER SPACING. FRICTION FIT – DO NOT COMPRESS
   d. FACING: VAPOR BARRIER MATERIAL AND LOCATION MEETING ENERGY CODE GUIDELINES AS PER RELATED INSTALL. SHALL BE PLENUM RATED WHERE EXPOSED IN CONCEALED SPACES.
   e. PROPERTIES: NON-FLAMMABLE PERMEABILITY (PERM) RATING < 50; BLOCKS AIR INFILTRATION; FLAME SPREAD RATING < 25, POLYBROMINATED DIPHENYL ETHERS (PBDE) FREE, LOW EMITTING MATERIAL, FORMALDEHYDE FREE.
   f. INSTALLATION: COORDINATE WITH INSTALLATION OF OTHER TRADES IN AREA. INSTALL IN 2" LIFTS AS PER MANUFACTURER'S INSTRUCTIONS. CLEAN OVERSPRAY.
2. RIGID INSULATION FOR WALLS SHALL MEET ASTM E331 AND ASTM E2357.
   a. PRODUCTS: RIGID INSULATION BY OWENS CORNING, ENCLOSURE SOLUTIONS FOR WOOD STUD WITH FORMULAR EXTRUDED POLYSTYRENE INSULATION.
   b. PROVIDE R-6.5 PER INCH OF THICKNESS; 1" THICK; 48"X96"; SQUARE EDGE.
   c. THE CONTRACTOR SHALL PROVIDE THE PRODUCTS OF THE NAMED MANUFACTURERS WITHOUT SUBSTITUTION, UNLESS A WRITTEN REQUEST FOR AN "OR EQUAL COMPLETE SYSTEM SUBSTITUTION" HAS BEEN APPROVED IN WRITING BY THE ARCHITECT.
   d. SCREW WITH AIR & WATER SEALING WASHER: PROVIDE PREASSEMBLED SCREW AND STRESS PLATE FASTENERS RECOMMENDED BY THEIR MANUFACTURER FOR SECURING EXTRUDED POLYSTYRENE (XPS) CONTINUOUS INSULATION. POLYMER OR OTHER CORROSION-PROTECTED, COATED STEEL SCREW FASTENERS FOR ANCHORING TO SHEATHING AND WOOD STUD WALL FRAMING. FASTENER LENGTH SIZE AND BASED ON WALL SHEATHING THICKNESS AND FASTENER MANUFACTURER RECOMMENDATION.
3. RIGID INSULATION FOR ROOFS SHALL MEET ASTM C578.
   a. PRODUCTS: RIGID INSULATION BY OWENS CORNING, THERMAPINK, EXTRUDED POLYSTYRENE ROOF BOARD INSULATION OR EQUAL.
   b. PROVIDE R-6.5 PER INCH OF THICKNESS: 2" THICK; 48"X96"; SQUARE EDGE.
   c. VERIFY SHEATHING INSTALLED CORRECTLY IF REQUIRED PRIOR TO INSTALLATION OF EXTRUDED POLYSTYRENE INSULATION.
   d. INSTALL EXTRUDED POLYSTYRENE (XPS) INSULATION BOARDS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
17. LIQUID AIR BARRIER SYSTEM: ONE COMPONENT, POLYMER MODIFIED,

07 52 16 - SBS MODIFIED BITUMINOUS MEMBRANE

1.1 SCOPE OF WORK
Provide all labor, materials, equipment, and services necessary to furnish and install a complete SBS modified bituminous membrane roofing system, including but not limited to:
- a. Tear-off of existing roofing down to existing lightweight insulating concrete over steel deck
- b. Substrate preparation and repairs as required
- c. Mechanically fastened SBS base ply
- d. Heat-welded SBS cap sheet
- e. SBS membrane flashings
- f. Liquid-applied reinforced flashings where required
- g. Walkway protection
- h. Accessories necessary to obtain the specified manufacturer's warranty

1.2 RELATED WORK
- a. Roof insulation and cover board
- b. Sheet metal flashing and trim
- c. Roof edge systems
- d. Temporary protection and safety

1.3 REFERENCES
Comply with the latest editions of the following standards where applicable:
- a. ASTM D41, D4586, D5147, D5849, D6162, D6163, D6164
- b. UL 790, UL 1256
- c. FM 4450, FM 4470
- d. ANSI/FM 4474
- e. ASCE 7
- f. NRCA Roofing Manual

2. PERFORMANCE REQUIREMENTS
2.1 WIND UPLIFT
Roof assembly shall be designed and installed to resist the following minimum design pressures:
- a. Zone 1' (Field of Roof): −21.3 psf
- b. Zone 1 (Field of Roof): -37.1 psf
- c. Zone 2 (Perimeter): −48.8 psf
- d. Zone 3 (Corners): −66.5 psf

Testing shall comply with FM 4470, FM 4450, UL 580, or UL 1897.
2.2 FIRE PERFORMANCE
- a. Roof covering: UL Class A / FM Class A
- b. Roof deck assembly: UL 1256 / FM Class 1

2.3 SLOPE
Minimum finished roof slope: 1/8 inch per foot.
2.4 IMPACT RESISTANCE
Roof system shall meet FM Severe Hail (FM-SH) or equivalent per ASTM D3746.
2.5 CYCLIC FATIGUE
Roof system shall pass ASTM D5849, Test Condition 5 at −4°F, with no cracking, splitting, or tearing.

3. WARRANTIES
- a. Manufacturer Warranty:
  20-Year No Dollar Limit (NDL) Total System Warranty covering materials and labor. The manufacturer shall provide the owner with the manufacturer's warranty providing labor and materials for 20-years from the date the warranty is issued.
- b. Contractor Warranty:
  The contractor shall guarantee the workmanship and shall provide the owner with the contractor's warranty covering workmanship for a period of 2-years from completion date.

4. MANUFACTURERS
4.1 ACCEPTABLE MANUFACTURERS
- a. Soprema
- b. Garland
- c. Prior approved equal

All roofing membrane, flashing, and accessories shall be from a single manufacturer.
4.2 QUALITY REQUIREMENTS
- a. Manufacturer shall have a minimum of 20 years experience manufacturing SBS roofing systems in the U.S.
- b. Manufacturer shall be ISO 9001 registered.
- c. Roofing contractor shall be manufacturer-authorized.

5. PRODUCTS
5.1 BASE PLY (MECHANICALLY FASTENED)
- a. Product: SOPRAFIX BASE 612 or approved equal
- b. SBS-modified bitumen membrane
- c. Polyester reinforced
- d. ASTM D6164, Type I, Grade S
- e. Thickness: 118 mils (3.0 mm)

5.2 CAP SHEET (HEAT-WELDED)
- a. Product: SOPRALENE FLAM 180 FR GR or approved equal
- b. SBS-modified bitumen, mineral surfaced
- c. White granules
- d. ASTM D6164, Type I, Grade G
- e. Thickness: 157 mils (4.0 mm)
- f. UL Class A

5.3 FLASHING MEMBRANES
- a. SBS modified bitumen flashing base ply and cap sheet, heat-welded
- b. Liquid-applied reinforced flashing system (ALSAN Flashing) permitted where torch application is impractical

5.4 WALKWAY PADS
- a. Product: SOPRAWALK or approved equal
- b. SBS modified bitumen, granule surfaced
- c. Color: Grey

5.5 ACCESSORIES
- a. ELASTOCOL 500 Primer: Asphalt primer meeting ASTM D41
- b. GENERAL PURPOSE ROOFING CEMENT AND MASTIC: SBS roofing cement meeting ASTM D4586
- c. GENERAL PURPOSE SEALANT: Elastomeric sealant meeting ASTM C920
- d. Manufacturer-approved fasteners and plates

6. EXECUTION
6.1 EXAMINATION
Contractor shall examine all substrates and conditions prior to installation. Do not proceed until conditions are acceptable. Installation constitutes acceptance of substrates.
6.2 PREPARATION
- a. Clean, dry, and repair substrates as required
- b. Remove incompatible materials
- c. Prime substrates where required and allow to fully dry

6.3 INSTALLATION
- a. Install base ply perpendicular to roof slope, shingled to prevent back-water laps
- b. Mechanically fasten base ply per manufacturer's wind uplift requirements
- c. Heat-weld cap sheet with continuous weld and visible bleed-out
- d. Offset base ply and cap sheet laps minimum 18 inches
- e. Provide fully adhered, multi-ply flashings at all terminations and penetrations
- f. Seal all terminations watertight

Torch use shall comply with NRCA CERTA guidelines and project safety requirements. Alternate approved methods shall be used where torching is unsafe.
6.4 WALKWAYS
- a. Install at roof access points, around rooftop equipment, and where indicated
- b. Fully adhere by heat welding or approved adhesive

6.5 CLEANING
Remove debris daily. Protect finished work.

07 60 00 - FLASHING AND SHEET METAL

1. MEET SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" RECOMMENDATIONS FOR DETAILING, METAL THICKNESS, AND INSTALLATION AS PER CONDITIONS PRESENT.
2. FABRICATE AND INSTALL ASSEMBLIES WITH LINES, CORNERS, AND ANGLES SHARP, TRUE, AND PLANE. SURFACES TO BE FREE OF WAVES, WARPS, BUCKLES. EXPOSED EDGES TO BE FOLDED BACK TO FORM ½" WIDE HEM ON SIDE CONCEALED FROM VIEW.
3. ASSEMBLIES SHALL BE FREE FROM WATER LEAKAGE UNDER ALL WEATHER CONDITIONS.
4. PROVIDE FOR EXPANSION AND CONTRACTION IN SHEET METAL WORK AS PER RECOMMENDATIONS OF SMACNA MANUAL AS PER CONDITIONS PRESENT.
5. JOINTS/SEAMS SHALL BE LAPPED, EVENLY SPACED AND LOCATED IN INCONSPICUOUS LOCATIONS.
6. FASTENERS TO BE WATERTIGHT, CONCEALED UNLESS INDICATED OTHERWISE. FASTENERS WHERE EXPOSED TO VIEW SHALL BE WATERTIGHT AND HAVE MATCHING FINISH.
7. COLORS: REFER TO EXTERIOR MATERIAL LEGEND.
8. GUTTER AND DOWNSPOUTS:
   a. SHALL BE SIZED BY MANUFACTURER TO HANDLE ALL DRAINAGE CONDITIONS PRESENT AS PER IPC.
   b. GUTTERS – 24 GAGE MINIMUM PRE-FINISHED METAL. PROVIDE GUTTER CONTINUOUS ALONG ALL LOW EAVES OF ENTIRE BUILDING. INCLUDING THE FOLLOWING ITEMS IF PRESENT: ROOF RETURNS AND DORMERS.
   c. DOWNSPOUTS – 22 GAGE MINIMUM, TO DIRECT WATER AWAY FROM BUILDING.
   d. PROVIDE ALL MISC. FLASHINGS AND DIVERTERS NEEDED TO DIVERT DRAINAGE INTO GUTTER/DRAIN WITHOUT OVERFLOW TO SURROUNDING SURFACES.
   e. PROVIDE "KICK-OUT" FLASHING AT INTERSECTIONS OF ROOF EDGE AND VERTICAL SURFACE.
   f. PROVIDE ADEQUATE FASTENERS, HANGERS AND SUPPORT.
   g. WHERE INDICATED ON PLANS, PIPE ALL DOWNSPOUTS IN UNDERGROUND CAST-ALUMINUM PIPING ASSEMBLY TO OUTFLOW THRU CONCRETE CURB OR INTO NEAREST INLET. SIZE UNDERGROUND PIPING ASSEMBLY OTHERWISE, PROVIDE PRECAST CONCRETE SPLASH BLOCKS AT EACH DOWNSPOUT.
9. ROOF FLASHINGS – PROVIDE WATERTIGHT ASSEMBLIES OF MATERIALS, PROFILES, AND FINISHES AS PER ROOFING MANUFACTURER'S INSTRUCTIONS. COLORS TO MATCH SURROUNDING MATERIALS.
   A. ACCEPTABLE MANUFACTURER:
      1. Petersen Aluminum Corporation
      2. Mcelroy
      3. Imetco
   B. Contractor shall furnish all sheet metal flashings, counter flashings, roof edge system, and all other related sheet metal flashings, fasteners and sealants necessary to flash and counter flash the specified roofing system at all roof terminations, transitions and penetrations.
   C. Sheet metal flashing materials and fasteners shall be compatible with adjacent materials, to accommodate all project related exposures.
   D. Pre-Finished Metal Flashing Material: Minimum 24 gauge face with 22 gauge Cleat. Finish to be Kynar 500
   E. ROOF EDGE SYSTEM:
      a. Performance testing shall be in accordance with ANSI/SPRI/FM 4435/ES-1 Wind Design Standard for Edges Systems Used with Low Slope Roofing Systems.
         - Wind Load Determination:
           1. Perimeter Region:
           2. Horizontal: -30.0 psf
           3. Vertical: -58.1 psf
         - Corners Region:
           1. Horizontal: -37.1 psf
           2. Vertical: -79.2 psf
   F. GRAVEL GUARD/GRAVEL STOP
      a. Material: Galvalume Substrate
      b. Gauge/Thickness: 24 gauge minimum face thickness with a minimum 22 gauge cleat thickness. (Type Fasteners, length of fastener, and spacing to be according to ES-1 requirements)
      c. Finish: Kynar 500 Color selected from manufacturer's color chart.
   G. COPING METAL
      a. Material: Galvalume Substrate
      b. Gauge/Thickness: 24 gauge minimum face thickness with a minimum 22 gauge cleat thickness. (Type Fasteners, length of fastener, and spacing to be according to ES-1 requirements)
      c. Finish: Kynar 500 Color selected from manufacturer's color chart.
   H. THROUGH-WALL FLASHINGS:
      a. Through-wall flashing: 10 oz. copper. (5) five oz. copper is acceptable laminated between glass fabric.
      b. Nylon mesh mortar breaks for through-wall flashing.
   I. SHEET METAL FLASHING AND TRIM:
      a. ALUMINUM SHEET: COMMERCIAL QUALITY, ASTM B209, 6063-T5 ALLOY, SHOP PRECOATED, 0.040" UP TO 4" WIDE, 0.050" UP TO 8" WIDE, 0.063" UP TO 10" WIDE, 0.080" UP TO 16" WIDE.
      b. GALVANIZED STEEL: COMMERCIAL QUALITY, ASTM A653, GRADE A, G90 ZINC COATED, 24 GAGE UP TO 8" WIDE, 22 GAGE UP TO 10" WIDE, 20 GAGE UP TO 16" WIDE.

07 90 00 - JOINT PROTECTION

1. PROVIDE PRODUCTS APPROVED FOR RELATED INSTALL MEETING ASTM C920 CLASS 25. ELONGATION PROPERTIES = 25% TO 50%
2. CAULK AROUND ALL DOORS, WINDOWS, LOUVERS, AND WALL PENETRATIONS.
3. CAULK JOINT BETWEEN DISSIMILAR MATERIALS AS REQUIRED.
4. CAULK AROUND ALL PIPE PENETRATIONS THRU WALLS, FLOOR, CEILINGS, AND ROOFS.
5. PROVIDE BACKER ROD WHERE REQUIRED TO ADEQUATELY SUPPORT AND STRENGTHEN CAULK JOINT.
6. EXPOSED CAULK SHALL BE OF COLOR TO MATCH ADJACENT MATERIALS.
7. CAULK USED AT FIRE RATED ASSEMBLIES SHALL BE UL LISTED "FIRE RATED" CAULK.
   a. THROUGH PENETRATION FIRESTOPPING: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E814 TO HAVE FIRE RESISTANCE F RATING EQUAL TO REQUIRED FIRE RATING & PENETRATED ASSEMBLY
8. INSTALL AS PER CAULK MANUFACTURER'S INSTRUCTIONS AS PER CONDITIONS PRESENT. INSTALL IN NEAT SMOOTH LINES USING TOOLS AS RECOMMENDED BY CAULK MANUFACTURER.
9. THE OWNER SHALL ASSUME RESPONSIBILITY FOR MAINTAINING CAULK JOINTS AFTER THE BUILDING WARRANTY PERIOD ENDS.
10. COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD CHARTS.

08 OPENINGS

08 11 00 - METAL DOORS AND FRAMES

1. SEE DOOR SCHEDULE AND FLOOR PLAN FOR DOOR SIZES, PROFILES, AND TYPES.
2. DOORS – 18 GAGE GALVANIZED STEEL WITH G60 COATING. INSULATED CORE. FACTORY PRIMED.
3. FRAMES – GALVANIZED STEEL WITH G60 COATING. FACTORY PRIMED & FIELD FINISHED.
   a. EXTERIOR & INTERIOR FRAMES: KNOCK-DOWN TYPE
   b. FIRE RATING TO BE SAME AS DOOR, LABELED.
   c. FRAMES FOR WOOD DOORS: COMPLY WITH FRAME REQUIREMENTS IN ACCORDANCE WITH CORRESPONDING DOOR.
4. FACTORY PREP DOORS FOR HARDWARE.
5. PROVIDE ALL ANCHORS AND ACCESSORIES FOR PROPER INSTALL AND FUNCTION.
6. PROVIDE APPROVED LOUVERS WHERE INDICATED. LOUVERS TO BE LOCATED SO AS TO NOT CONFLICT WITH PROPER DOOR HARDWARE INSTALLATION AND FUNCTION.
7. DO NOT CUT, CORE, OR FASTEN TRIM TO ANY DOOR OR FRAME UNLESS APPROVED BY DOOR/FRAME MFR.
8. INSTALL AS PER DOOR AND FRAME MANUFACTURER'S INSTRUCTIONS. INSTALL PLUMB AND TRUE. ADJUST

08 14 16 - FLUSH WOOD DOORS

1. SEE DOOR SCHEDULE FOR SIZES AND TYPES.
2. WOOD VENEER FACED DOORS:
   a. MANUFACTURES: MASONITE ARCHITECTURAL, GRAHAM WOOD DOORS, MARSH FIELD DOOR SYSTEMS, OR EQUAL.
   b. QUALITY STANDARD: CUSTOM GRADE, HEAVYDUTY PERFORMANCE, IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMCA/WI (NAAWS), UNLESS NOTED OTHERWISE.
   c. SOLID CORE DOORS AT EACH LOCATIONS TO BE 5 - PLY. FLUSH CONSTRUCTION.
   d. FIRE RATED DOORS; TESTED TO RATINGS INDICATED ON DRAWINGS IN ACCORDANCE WITH UL 10C – POSITIVE PRESSURE; UNDERWRITERS LABORATORIES INC (UL) OR INTERTEK/WARNOCK HERSEY (WHI) LABELED WITHOUT ANY VISIBLE SEALS WHEN DOOR IS OPEN.
   e. VENEER FACING FOR TRANSPARENT FINISH: WHITE MAPLE, VENEER GRADE IN ACCORDANCE WITH QUALITY STANDARD INDICATED, PLAIN SLICED (FLAT CUT), WITH BOOK MATCH BETWEEN LEAVES OF VENEER, RUNNING MATCH OF SPLICED VENEER LEAVES ASSEMBLED ON DOOR OR PANEL FACE. REFER TO INTERIOR FINISH SCHEDULE FOR ADDITIONAL MANUFACTURES AND PRODUCTS.
   f. FINISH WORK IN ACCORDANCE WITH AWI/AWMAC/WI (AWS) OR AWMAC/WI (NAAWS), SECTION 5 – FINISHING FOR GRADE SPECIFIED AND AS FOLLOWS : ESPRESSO
3. GLAZED OPENINGS :
   a. HEAT – STRENGTHENED AND FULLY TEMPERED GLASS: ASTM C1048.
   b. TINT: CLEAR.
   c. GLAZING STOPS: WOOD, OF SAME SPECIES AS DOOR FACING, BUTTED CORNERS; PREPARED FOR COUNTERSINK STYLE TAMPER PROOF SCREWS.
4. INSTALL DOORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFIED QUALITY STANDARD.
   a. INSTALL FIRE-RATE DOORS IN ACCORDANCE WITH NFPA 80 REQUIREMENTS.
5. ADJUST DOORS FOR SMOOTH AND BALANCED DOOR MOVEMENT.
6. ADJUST CLOSERS FOR FULL CLOSURE.

08 41 13 - PREFINISHED ALUMINUM STOREFRONT DOORS AND WINDOWS

1. SEE SCHEDULES AND ELEVATIONS, SIZES, PROFILES AND TYPES.
2. FINAL LAYOUTS BASED ON SHOP DRAWINGS PREPARED BY MANUFACTURER AND APPROVED BY OWNER.
3. CONTRACTOR TO COORDINATE IMPACT GLAZING REQUIREMENTS WITH THE MANUFACTURER PRIOR TO BIDDING.
4. FRAMES ASSEMBLIES:
   a. MINIMUM ASSEMBLY – MODEL # SERIES 451T BY KAWNEER OR EQUAL.
   b. PREFINISH ALUMINUM EXTRUDED 6063T ALLOY TEMPERED.
   c. SIZE: 2 1/8" X 4 1/4" MINIMUM. MINIMUM THICKNESS = .125". UPSIZE SYSTEM AS REQUIRED TO MEET RELATED LOAD, SPAN, AND CODE CRITERIA.
   d. FINISH: MANUFACTURER'S STANDARD MULTI-COAT FLUOROPOLYMER COATINGS COLOR : REFER TO DOOR AND WINDOW SCHEDULE.
5. GLAZING
   a. ASSEMBLY TO RESIST WIND LOADS AS REQUIRED BY STATE BUILDING CODE.
   b. INSULATED GLAZING TO BE A MINIMUM OF 1" INSULATED LOW E (ON #2 SURFACE) DOUBLE GLAZED, OUTBOARD: HEAT-STRENGTHENED FLOAT GLASS, 1/4" THICK, MIN TINTED TO BE SOLAR GRAY, LABOARD: ANNEALED FLOAT GLASS 1/4" THICK MINIMUM TINT TO BE CLEAR.
   c. UNINSULATED GLAZING TO BE ¼" MINIMUM (UPSIZE AS NEEDED TO MEET RELATED LOAD, SPAN AND CODE CRITERIA)
   d. SPANDRAL GLAZING – SEE PLANS FOR LOCATIONS
   e. PROVIDE SAFETY/TEMPERED GLAZING WHERE REQUIRED BY CODE.
   f. U FACTOR & SHGC COEFFICIENT – MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE.
6. STOREFRONT DOOR ASSEMBLIES
   a. MODEL # SERIES 350 MEDIUM STILE BY KAWNEER OR EQUAL.
   b. SIZE= 3 ½" VERT. STILES AND TOP RAIL. 10" BOTTOM RAIL.
   c. SYSTEM TO BE COMPATIBLE WITH ANY SURROUNDING STOREFRONT FRAMING.
   d. ASSEMBLY TO RESIST WIND LOADS OF 30 PSF.
   e. GLAZING – INSULATED, LOW E, TEMPERED, TINTED TO MATCH ADJACENT GLAZING.
   f. HARDWARE – HINGES, HANDICAP ACCESSIBLE THRESHOLD, PANIC DEVICE, CLOSER, WEATHER STRIP, LOCKSET. SEE DOOR AND DOOR HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA.
   g. U FACTOR – MEET MINIMUM REQUIREMENTS OF STATE ENERGY CODE.
7. INSTALL ALL ASSEMBLIES AS PER PRODUCT MANUFACTURER'S TYPICAL INSTRUCTIONS AS PER CONDITIONS PRESENT.
8. PROVIDE MATCHING MISCELLANEOUS BREAK METAL TRIM AS PER WATERTIGHT SEAL AT OPENING EDGES.
9. COLORS: ALL COLORS ARE DARK BRONZE ALUMINUM STOREFRONT. GLAZING TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S TO STANDARD SELECTION SAMPLES.
10. CLEAN AND ADJUST AT COMPLETION.

08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

1. SEE SCHEDULES AND ELEVATIONS, SIZES, PROFILES AND TYPES.
2. FINAL LAYOUTS BASED ON SHOP DRAWINGS PREPARED BY MANUFACTURER AND APPROVED BY OWNER.
3. CONTRACTOR TO COORDINATE IMPACT GLAZING REQUIREMENTS WITH THE MANUFACTURER PRIOR TO BIDDING.
4. PROVIDE FACTORY-FABRICATED GLAZED ALUMINUM CURTAIN WALL SYSTEM, COMPLETE WITH FRAMING, ANCHORS, PRESSURE PLATES, GLAZING GASKETS, SEALANTS, TRIMS, AND ACCESSORIES, FORMING A COMPLETE, WEATHERTIGHT ASSEMBLY.
5. BASIS OF DESIGN: KAWNEER 1600 WALL SYSTEM®1 CURTAIN WALL, OUTSIDE-GLAZED PRESSURE PLATE SYSTEM.
   A. SIGHTLINE: 2-1/2"
   B. SYSTEM DEPTH: 6" OR 7-1/2" (AS REQUIRED FOR GLAZING THICKNESS)
   C. GLAZING PLANE: FRONT
   D. GLAZING METHOD: FOUR-SIDED CAPTURED
   E. INSTALLATION: OUTSIDE GLAZED
6. PERFORMANCE REQUIREMENTS
   A. AIR INFILTRATION: MAX 0.06 CFM/SF @ 6.2 PSF, ASTM E283
   B. WATER PENETRATION: NO LEAKAGE @ 12 PSF, ASTM E331 / AAMA 501
   C. STRUCTURAL PERFORMANCE: DESIGN LOAD 40 PSF, ASTM E330
      MAX DEFLECTION L/175
   D. SEISMIC: COMPLY WITH AAMA 501.4 AND 501.6
   E. THERMAL PERFORMANCE: MAXIMUM ASSEMBLY U-FACTOR: 0.39 BTU/HR·SF·°F (NFRC 100 OR AAMA 507)
   F. SOUND TRANSMISSION: MINIMUM STC 31 (INSULATED GLAZING)
7. MATERIALS
   A. ALUMINUM FRAMING: ASTM B221, 6063-T6, MIN. 0.070" WALL THICKNESS
   B. FASTENERS: STAINLESS STEEL OR NON-CORROSIVE COMPATIBLE MATERIALS
   C. THERMAL BREAK: EXTRUDED ELASTOMER, MIN. 1/4" SEPARATION
   D. SEALANTS: MANUFACTURER-APPROVED, NON-STAINING, PERMANENTLY ELASTIC
   E. ANCHORS: ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION
8. GLAZING
   REFER TO ELEVATIONS FOR GLAZING FOR GLASS TYPE.
   A. ACCEPTABLE THICKNESSES:
   B. MONOLITHIC: 1/4", 9/16", 5/8"
   C. INSULATING: 1", 1-5/16"
   D. GLAZING GASKETS PER ASTM C864
   E. PROVIDE SETTING BLOCKS, SPACERS, AND BOND-BREAKER TAPE AS REQUIRED

9. FABRICATION & INSTALLATION
   A. FABRICATE USING MANUFACTURER'S STANDARD SHEAR BLOCK SYSTEM
   B. PROVIDE INTERNAL DRAINAGE AND WEEP SYSTEM
   C. INSTALL PLUMB, LEVEL, AND TRUE WITHIN MANUFACTURER TOLERANCES
   D. PRESSURE PLATES FASTENED WITH STAINLESS STEEL SCREWS @ MAX 9" O.C.
   E. COMPARTMENTALIZE EACH LITE AND DIRECT WATER TO EXTERIOR WEEPS
10. FINISH
    A. AAMA 2605 (70% PVDF)
    B. AAMA 2604 (50% PVDF)
    C. CLASS I OR II ANODIZED FINISH
    COLOR: AS SELECTED BY ARCHITECT
1. WARRANTY
   A. MANUFACTURER'S STANDARD WARRANTY: A 5 YEAR WEATHERTIGHTNESS WARRANTY FROM SUBSTANTIAL COMPLETION.

08 71 00 - DOOR HARDWARE

1. SEE DOOR SCHEDULE AND HARDWARE SCHEDULE ON PLANS FOR ADDITIONAL DATA.
2. CYLINDRICAL LOCKETS, GRADE 1 (HEAVY DUTY) : ANSI / BHMA AIS6.2, GRADE 1 CERTIFIED
   a. FURNISH WITH SOILED CAST LEVERS, STANDARD 2 3/4" BACKSET, AND 1/2" (3/4" AT RATED PAIRED OPENINGS) THROW BRASS OR STAINLESS STEEL LATCHBOLT.
   b. LOCKS ARE TO BE NON-HANDED AND FULLY FIELD REVERSIBLE.
   c. PROVIDE FULL SIZE INTERCHANGEABLE CORES,
3. DOOR LEVER MANUFACTURES: YALE & SARGENT, SCHLAGE
   a. SUBSTITUTIONS: OTHER PRODUCTS DEEMED TO BE EQUAL MAY BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL IF DEEMED EQUAL.
4. PROVIDE ITEMS WHICH MEET FIRE CODE WHERE INSTALLED IN FIRE DOOR ASSEMBLY.
5. ALL HARDWARE FINISHES TO MATCH. COORDINATE PRIOR TO ORDERING. REFER TO DOOR SCHEDULE FOR FINISH.
6. ALL DOOR HARDWARE SHALL MEET ADA GUIDELINES. DOOR OPENING FORCE FOR PUSHING OR PULLING SHALL BE: INTERIOR DOOR: < 5 LBS., EXTERIOR DOOR: 8 LBS.
7. HARDWARE MATERIALS:
   a. HINGES: BUTT HINGES, FULL MORTISE, 5 KNUCKLE. 3 PER DOOR. HINGES AT EXTERIOR DOORS TO HAVE NON-REMOVABLE PINS.
   b. PANIC DEVICE: VON DUPRIN 98 SERIES OR EQUAL, TO DISENGAGE LOCK (PROVIDE MULLS WHERE NEEDED FOR PROPER FUNCTION)
   c. LEVER SETS: SCHLAGE "ND" SERIES – RHODES. LIGHT COMMERCIAL. LOCK CYLINDERS: CYLINDRICAL. STANDARD TRIM. KEY PER OWNER'S INSTRUCTION. PROVIDE "3" LABELED KEYS PER LOCK. CORES TO BE "BEST" COMPATIBLE.
   d. PRIVACY SETS SHALL BE "PUSH BUTTON" TYPE LOCKING. NOT "PUSH/TURN".
   e. CLOSER: SURFACE MOUNTED, COMMERCIAL GRADE 1. LCN #1460 OR EQUAL. CLOSURES TO BE ADJUSTED TO ALLOW MAXIMUM EFFORT OF 5 LBS. TO OPEN. UNDER NO CIRCUMSTANCES SHALL CLOSER HINGES BE USED AS A SUBSTITUTE FOR ACTUAL CLOSER. ON FIRE RATED DOORS OR HIGH USE DOORS SUCH AS LARGE PUBLIC RESTROOMS, CLOSER TO BE ADJUSTED SUCH THAT FROM OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" SEPARATING THE LATCH AND THE LEADING EDGE OF THE DOOR.
   f. STOPS: PROVIDE TRIMKO WALL OR FLOOR MTD. AS PER CONDITIONS PRESENT. STOPS AT HIGH USE DOORS SHALL BE FLOOR MOUNTED. PROVIDE (1) PER DOOR.
   g. FLUSH BOLTS: AS REQUIRED PER PROPER DOOR FUNCTION AT PAIRS OF DOORS. FLUSH MOUNTED.
   h. SILENCERS: STEELCRAFT OR EQUAL. PROVIDE TYPICAL AT ALL METAL AND WOOD FRAMES.
   i. PUSH/PULL PLATES, KICK PLATES: MATCH FINISH OF OTHER HARDWARE. BALDWIN OR EQUAL.
      DEADBOLTS: B SERIES BY SCHLAGE, KEYED WITH THUMB TURN ON INTERIOR SIDE.
   k. STRIKES: AS PER LOCKSET MFR. SUGGESTION. PROVIDE DEEP STRIKES WHERE NEEDED TO PROTECT TRIM.
   l. WEATHERSTRIPPING: PEMKO OR EQUAL. PROVIDE AT ALL EXTERIOR DOORS AND AT ALL INTERIOR DOORS WITH NON-CONDITIONED SPACE ON ONE SIDE.
   m. THRESHOLDS: PEMKO. MILL FINISH. SET IN BED OF SEALANT. THRESHOLDS WHEN INSTALLED SHALL BE ½" HIGH MAX AND SHALL MEET HANDICAP ACCESSIBILITY CODES.
   n. SWEEPS: PEMKO OR EQUAL. MILL FINISH. (1) PER EXTERIOR DOOR. (1) PER INTERIOR DOOR WITH NON-CONDITIONED SPACE ON ONE SIDE.
   o. SPECIAL SEALS: PROVIDE SPECIAL SEALS WHERE REQUIRED BY DOOR FUNCTION
   p. CARD READERS: TO BE PROVIDED BY SECURITY VENDOR. ELECTRIC STRIKES & POWER PROVIDED BY GENERAL CONTRACTOR. (VERIFY WITH ARCHITECT PRIOR TO ORDERING STRIKES)
8. KEYING SCHEDULE:
   a. INCORPORATE THE FOLLOWING CRITERIA INTO THE FINAL KEYING SCHEDULE DOCUMENT:
      - FUNCTION OF BUILDING, PURPOSE OF EACH AREA AND DEGREE OF SECURITY REQUIRED.
      - PLANS FOR EXISTING AND FEATURE KEY SYSTEM EXPANSION.
      - REQUIREMENTS FOR KEY CONTROL STORAGE AND SOFTWARE.
      - ADDRESS AND REQUIREMENTS FOR DELIVERY OF KEYS.
   b. AFTER A KEYING MEETING WITH THE OWNER HAS TAKEN PLACE PREPARE A SEPARATE KEYING SCHEDULE DETAILING FINAL INSTRUCTIONS. SUBMIT THE KEYING SCHEDULE IN ELECTRONIC FORMAT. INCLUDE KEYING SYSTEM EXPLANATION, DOOR NUMBERS, KEY SET SYMBOLS, HARDWARE SET NUMBERS AND SPECIAL INSTRUCTIONS. OWNER MUST APPROVE SUBMITTED KEYING SCHEDULE PRIOR TO THE ORDERING OF PERMANENT CYLINDERS/CORES.
   c. ALL LOCKSETS AS PER OWNER'S INSTRUCTION. PROVIDE (3) LABELED COPIES OF ALL KEYS WITH MASTER KEYING CHART.
9. PROVIDE ALL INCIDENTAL HARDWARE AS NECESSARY FOR PROPER DOOR FUNCTION.
10. ALL ITEMS TO BE INSTALLED AND MOUNTED IN ACCORDANCE WITH APPLICABLE FIRE AND HANDICAP CODES.
11. INSTALL ALL ITEMS AS PER MANUFACTURER'S RECOMMENDATIONS. ADJUST FOR PROPER FIT.
12. WHERE PAIR OF DOORS ARE PRESENT, THEN HARDWARE SET TO APPLY TO BOTH DOORS. PROVIDE ADDITIONAL ASTRAGALS, FLOOR/CEILING BOLTS AS REQUIRED PER PROPER OPERATION OF HARDWARE AT PAIRS OF DOORS.
13. PRIVACY LEVER SETS SHALL AUTOMATICALLY UNLOCK WHEN LEVER IS ACTIVATED FROM INSIDE ROOM.
14. PROVIDE PANIC DEVICES AT ELECTRICAL ROOM CLOSETS WHEN ELECTRICAL EQUIPMENT IN ROOM EXCEEDS 800 AMP. PANIC DEVICE TO DISENGAGE ANY LOCKING DEVICES ON DOOR.
15. ALL DOOR FRAMES TO HAVE A MINIMUM OF THREE (3) DOOR SILENCERS.
16. PROVIDE WALL OR FLOOR MOUNTED STOPS AS PER CONDITIONS PRESENT. DARK BRONZE STOPS AT HIGH USE DOORS SHALL BE FLOOR MOUNTED. PROVE ONE (1) PER DOOR.

17. HARDWARE SETS

HW-1-OFFICE ENTRY LOCKSET
DOORS: 102, 103, 104, 107, 117
- LOCKSET: OFFICE FUNCTION LOCKSET
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR STOP: WALL BUMPER, FLOOR STOP WHERE DOOR SWINGS INTO STOREFRONT
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-2-RESTROOM PRIVACY LOCKSET
DOORS: 108, 112, 118, 120
- LOCKSET: PRIVACY FUNCTION WITH OCCUPANCY INDICATOR
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR CLOSER: SURFACE MOUNTED, ADJUSTABLE SPRING POWER
- DOOR STOP: WALL BUMPER
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-3-PASSAGE LOCKSET
DOORS: 126A
- LOCKSET: PASSAGE FUNCTION (NON-LOCKING)
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR STOP: WALL BUMPER
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME

HW-4-STOREROOM LOCKSET
DOORS: 111
- LOCKSET: STOREROOM FUNCTION LOCKSET
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR CLOSER: SURFACE MOUNTED, ADJUSTABLE SPRING POWER
- HOLD OPEN
- DOOR STOP: WALL BUMPER
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KICK PLATE
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-5-STOREROOM LOCKSET (ELECTRIFIED - FAIL SAFE)
DOORS: 109,110, 126B, 127
- LOCKSET: STOREROOM FUNCTION LOCKSET
- ELECTRIC STRIKE
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR CLOSER: SURFACE MOUNTED, ADJUSTABLE SPRING POWER
- DOOR STOP: DOME STOP
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-6-STOREROOM LOCKSET (ELECTRIFIED - FAIL SECURE)
DOORS: 116, 122, 125, 128
- LOCKSET: STOREROOM FUNCTION LOCKSET
- ELECTRIC STRIKE
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR CLOSER: SURFACE MOUNTED, ADJUSTABLE SPRING POWER
- DOOR STOP: DOME STOP
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-7-EXIT ONLY LOCKSET
DOORS: E113, S102
- PANIC HARDWAR: VON DUPRIN 98/99 EXIT DEVICE
- NO EXTERIOR HARDWARE
- DOOR TOP WEATHERSTRIP - RAIN DRIP
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- DOOR CLOSER: SURFACE MOUNTED, ADJUSTABLE SPRING POWER
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KICKPLATE
- ADA THRESHOLD - 3' - 0"
- DOOR BOTTOM SWEEP
- WEATHER STRIPPING - 3' - 0" - 7' - 0"
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-8- EXTERIOR STOREROOM LOCKSET (FAIL-SECURE) DOUBLE
DOORS: E114 (PAIR)
- LOCKSET: STOREROOM FUNCTION LOCKSET
- FLUSH BOLT
- ELECTRIC STRIKE
- HINGES: 3 EA PER LEAF, BALL-BEARING 4 1/2" X 4 1/2"
- HOLD OPEN
- SILENCERS: 3 PER FRAME
- FINISH: STAIN CHROME
- KICKPLATE
- ADA THRESHOLD - 6' - 0"
- DOOR BOTTOM SWEEP
- WEATHER STRIPPING - 6' - 0" - 7' - 0"
- KEYING: COORDINATE WITH OWNER AND ARCHITECT

HW-9- EXTERIOR STOREROOM LOCKSET (FAIL-SECURE) SINGLE
DOORS: E115
- LOCKSET: STOREROOM FUNCTION LOC

09 FINISHES

09 21 16 - GYPSUM BOARD ASSEMBLIES

1. PROVIDE COMPLETED ASSEMBLIES COMPLYING WITH ASTM C 840 AND GA-216.
2. PROVIDE COMPLETED FIRE RATED ASSEMBLIES COMPLYING WITH APPLICABLE ICC IBC REQUIREMENTS AND EQUIVALENT UL ASSEMBLY CONSTRUCTION LISTED FOR THE PARTICULAR ASSEMBLY
3. GYPSUM BOARD:
   a. MANUFACTURERS: AMERICAN GYPSUM COMPANY, CERTAIN TEED CORPORATION, GEORGIA-PACIFIC GYPSUM, OR NATIONAL GYPSUM COMPANY.
   b. PAPER-FACED GYPSUM PANELS AS DEFINED IN ASTM CI 396/C346M: SIZE TO MINIMIZE JOINTS IN PLACE; ENDS SQUARE ...
   c. FIRE-RATING ASSEMBLIES TO MEET THE TESTED ASSEMBLY. IF NO TESTED ASSEMBLY IS INDICATED, USE TYPE X BOARD, UL OR WH LISTED.
   d. MOLD INFESTED BOARD IS REQUIRED WHEREVER BOARD IS BEING INSTALLED BEFORE THE BUILDING IS CLOSED AND CONDITIONED. MOLD RESISTANT BOARD IS REQUIRED AT ALL RESTROOMS & JANITOR CLOSETS.
   e. THICKNESS: VERTICAL SURFACE: 5/8" INCH, CEILINGS: 5/8 INCH.
4. BACKING BOARD FOR WET AREAS
   a. MANUFACTURERS: CUSTOM BUILDING PRODUCTS, NATIONAL GYPSUM COMPANY, USG CORPORATION.
   b. APPLICATION: SURFACES BEHIND TILE IN WET AREAS INCLUDING RESTROOMS AND JANITOR'S CLOSET.
   c. MOLD RESISTANCE SCORE OF WHEN TESTED IN ACCORDANCE W/ ASTM D3273.
   d. ANSI CEMENT-BASED BOARD: NONGYPSUM-BOARD, AGGREGATED PORTLAND CEMENT PANELS WITH GLASS, FIBER MESH EMBEDDED IN FRONT & BACK SURFACES COMPLYING WITH ANSI A118.9 OR ASMC 1325.
   e. THICKNESS: 5/8 INCH.
5. JOINT MATERIALS: ASTM C475/C475M AND AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR PROJECT CONDITIONS.
6. BLOCKING: INSTALL WOOD BLOCKING FOR SUPPORT OF:
   a. FRAMED OPENINGS.
   b. WALL MOUNTED CABINETS.
   c. PLUMBING FIXTURES
   d. TOILET ACCESSORIES.
   e. WALL MOUNTED DOOR HARDWARE.
7. CONTROL JOINTS: PLACE CONTROL JOINTS CONSISTENT WITH LINES OF BUILDING SPACES AND AS INDICATED.
8. CORNER BEADS: INSTALL AT EXTERNAL CORNERS, USING LONGEST REACTICAL LENGTH.
9. EDGE TRIM: INSTALL AT LOCATIONS WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
10. FINISH GYPSUM BOARD IN ACCORDANCE WITH LEVELS DEFINED IN ASTM C840, AS FOLLOWS:
    a. LEVEL 5: WALLS AND CEILING TO RECEIVE SEMI-GLOSS OR GLOSS PAINT FINISH AND OTHER AREAS SPECIFICALLY INDICATED.
    b. LEVEL 4: WALLS AND CEILINGS TO RECEIVE PAINT FINISH OR WALL COVERINGS, UNLESS OTHERWISE INDICATED.
    c. LEVEL 3: WALL TO RECEIVE TEXTURED WALL FINISH.
    d. LEVEL 2: IN UTILITY AREAS, BEHIND CABINETRY, AND ON BACKING BOARD TO RECEIVE TILE FINISH.
    e. LEVEL 1: FIRE RATED WALL AREAS ABOVE FINISHED CEILINGS, WHETHER OR NOT ACCESSIBLE IN THE COMPLETED CONSTRUCTION.
11. TAPE FILL, AND SAND EXPOSED JOINTS, EDGES, AND CORNERS TO PRODUCE SMOOTH SURFACE READY TO RECEIVE FINISHES.
    a. FEATHER COATS OF JOINT COMPOUND SO THAT CAMBER IS MAXIMUM 1/32 INCH.
12. WHERE LEVEL 5 IS INDICATED, SPRAY APPLY HIGH BUILD DRYWALL SURFACER OVER ENTIRE SURFACE AFTER JOINTS HAVE BEEN PROPERLY TREATED; ACHIEVE A FLAT AND TOOL MARK-FREE FINISH.

09 30 00 - TILING (IF REQUIRED)

1. REFER TO DRAWINGS FOR TILE AND GROUT MANUFACTURERS.
2. VERIFY THAT CONCRETE AND WALL SURFACES ARE SMOOTH AND FLAT WITHIN THE TOLERANCES SPECIFIED FOR THAT TYPE OF WORK AND ARE READY TO RECEIVE TILE.
3. VERIFY THAT CONCRETE AND WALL SURFACES ARE DUST-FREE AND FREE OF SUBSTANCES THAT COULD IMPAIR BONDING OF SETTING MATERIALS.
4. VERIFY THAT REQUIRED FLOOR-MOUNTED AND WALL-MOUNTED UTILITIES ARE IN THE CORRECT LOCATION.
5. INSTALL TILE, THRESHOLDS, STAIR TREADS, AND GROUT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF ANSI A108.1A THROUGH A108.13, MANUFACTURER'S INSTRUCTIONS, AND TCNA (HB) RECOMMENDATIONS.
6. KEEP CONTROL AND EXPANSION JOINTS FREE OF MORTAR, GROUT, AND ADHESIVE,
7. PRIOR TO GROUTING, ALLOW INSTALLATION TO COMPLETELY CURE; MINIMUM OF 48 HOURS.

09 51 00 - ACOUSTICAL CEILINGS

1. PRODUCT: ARMSTRONG MESA SQUARE LAY-IN. REFER TO INTERIOR FINISH SCHEDULE FOR ADDITIONAL CEILING MANUFACTURES AND PRODUCTS.
2. REFER TO ARCHITECT REFLECTED CEILING PLAN FOR LAYOUT AND HEIGHTS.
3. DO NOT INSTALL ACOUSTIC UNITS AFTER INTERIOR WET WORK IS DRY.
4. PROVIDE ALL CHANNELS, HANGERS AND MOLDING AS PER MANUFACTURER'S REQUIREMENT.
5. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE. COORDINATE THE LOCATION OF HANGERS WITH OTHER WORK.
6. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, REINFORCED THE NEAREST AFFECTED HANGERS AND RELATED CARRYING CHANNELS TO SPAN THE EXTRA DISTANCE.
7. INSTALL ACOUSTICAL UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

09 65 00 - RESILIENT FLOORING & 09 68 13 - CARPET TILE

1. SUBMIT MANUFACTURER'S DATA SHEETS, SAMPLES, AND SHOP DRAWINGS.
2. FLOORING CONTRACTOR MUST BE CERTIFIED BY THE MANUFACTURER PRIOR TO BID.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. REFER TO INTERIOR DESIGN DRAWINGS FOR PRODUCT NAMES, SIZES, SHAPES, FINISHES, COLORS, AND SIMILAR DATA.
5. MATERIALS RECOMMENDED BY MANUFACTURER FOR PATCHING, LEVELING, PRIMING, ETC.
6. WALL BASE AS SCHEDULED.
7. VERIFY SUBSTRATE CONDITIONS ARE ACCEPTABLE FOR PRODUCT INSTALLATION WITH
8. MANUFACTURER'S INSTRUCTIONS (I.E. MOISTURE TESTS, BOND TEST, PH TEST, ETC.)

09 72 00 WALL COVERING (IF REQUIRED)

1. WHERE APPLICABLE, PRODUCTS MUST COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS INCLUDING SCAQMD, PROP 65, AND LEEDV4, UNLESS EXPRESSLY NOTED OTHERWISE AND APPROVED BY KA IN WRITING.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND FINISH DIGITALLY PRINTED WALLCOVERING AS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. GC TO CONFIRM WITH TENANT ALL GRAPHIC WALL AND GLASS ART, INCLUDING MURALS OR APPLIQUES, TYPE, SIZE, LOCATION, AND INSTALLATION REQUIREMENTS PRIOR TO FABRICATION AND INSTALLATION.
4. GC TO ENSURE ALL WALL SURFACES INTENDED FOR GRAPHIC WALL ART RECEIVE A LEVEL 5 PREP, EXTENDING FLOOR TO CEILING, CORNER TO CORNER U.N.O.
5. GC TO PROVIDE FIELD MEASUREMENTS OF ALL LOCATIONS TO RECEIVE GRAPHIC WALL OR GLASS ART PRIOR TO COMMENCEMENT OF FABRICATION.
6. GC TO CONFIRM SIZE AND LOCATION OF ALL DEVICES, ELEMENTS, DEPRESSIONS OR PROTRUSIONS WHICH MAY INTERFERE WITH THE INTENDED DESIGN WITHIN 48" (ALL DIRECTIONS) OF THE INTENDED GRAPHICS PLACEMENTS.
7. SAMPLES: CONTRACTOR SHALL SUBMIT A SAMPLE OF EACH TEXTURE, TYPE, AND COLOR TO BE INSTALLED.
8. REFER TO INTERIOR DESIGN DRAWINGS FOR PRODUCT NAMES, SIZES, SHAPES, FINISHES, COLORS, AND SIMILAR DATA.
9. INSTALL WALLCOVERING AND GRAPHICS PER MANUFACTURER'S RECOMMENDATIONS.

09 91 00 - PAINTING

1. PAINT ALL SURFACES EXCEPT ALUMINUM, VINYL, GLASS, FACE BRICK, UNDERSIDE OF METAL ROOFING AND PREFINISHED ITEMS - UNLESS NOTED OTHERWISE.
2. OWNER TO SELECT COLORS FROM MANUFACTURER'S STANDARD COLOR CHARTS.
3. PRODUCTS BY PORTER PAINTS, SHERWIN WILLIAMS, BENJAMIN MOORE, ARE ACCEPTABLE.
4. ALL PAINTS TO BE DELIVERED TO JOBSITE READY MIXED.
5. REFER TO INTERIOR FINISH SCHEDULE FOR TRIM, WALL & CEILING COLORS. (CUT IN COLORS TO PROVIDE SHARP/STRAIGHT LINES AND EDGES).
6. PAINT ALL EXPOSED PIPING, CONDUIT, DUCTWORK, AND EXPOSED STRUCTURE IN FINISHED ROOMS WHERE NO CEILING IS PRESENT UNLESS INDICATED OTHERWISE.
7. INSTALLING ANY FINISH OVER A SURFACE INDICATES THE INSTALLER'S ACCEPTANCE OF THE SURFACE CONDITIONS AS BEING SUFFICIENT FOR PROPER MATERIAL INSTALL.
8. ALL SURFACES TO RECEIVE PAINT SHALL BE PREPPED AND SANDED AS PER PAINT MANUFACTURER'S INSTRUCTIONS. SURFACES SHALL BE FREE OF DEFECTS, DUST, AND SHALL BE SMOOTH.
9. FILL NAIL HOLES AND NARROW CRACKS WITH APPROVED FILLER MATERIAL.
10. ANY MILDEW PRESENT SHALL BE TREATED AND SURFACE NEUTRALIZED WITH APPROVED COATING PER COATING MFR'S INSTRUCTION.
11. CLEAN ANY METAL SURFACES TO RECEIVE PAINT OF RUST, RUNS, MILL SCALE, AND OILY RESIDUE.
12. ANY PASSIVATOR OR OIL COATINGS SHALL BE REMOVED PRIOR TO PAINTING (i.e., @ galvanized metal surfaces). CLEAN AND PREP RELATED SURFACES AS PER THE PAINT MANUFACTURER'S RECOMMENDATIONS.
13. FINAL FINISH TO BE FREE OF DEFECTS, FREE OF BRUSH/ROLLER STROKES, AND OF CONSISTENT COLOR. SAND BETWEEN COATS.
14. DO NOT PAINT ANY SPRINKLER HEADS!
15. PROVIDE OWNER WITH ONE GALLON STOCK OF ALL PAINTS USED FOR FUTURE TOUCH-UP. LABEL ALL CANS WITH COLOR AND LOCATION.
16. PAINT SCHEDULE: (SEE FINISH SCHEDULES ON PLANS)
    a. PAVEMENT MARKING PAINT
       - YELLOW: ONE COAT, WITH REFLECTIVE PARTICLES
       - WHITE: ONE COAT, WITH REFLECTIVE PARTICLES
    b. ALL INTERIOR SURFACES INDICATED TO BE PAINTED, UNLESS OTHERWISE INDICATED: INCLUDING GYPSUM BOARD, WOOD, PLASTER,UNCOATED STEEL, GALVANIZED STEEL, AND ALUMINUM.
       - TWO TOP COATS AND ONE COAT PRIMER
       - FLT: MPI GLOSS LEVEL 1; USE THIS SHEEN WHERE INDICATED ON DRAWINGS
       - EGGSHELL: MPI GLOSS LEVEL 3; USE THIS SHEEN WHERE INDICATED ON DRAWINGS
       - OIL-BASED SEMI-GLOSS: MPI GLOSS LEVEL 5; USE THIS SHEEN WHERE INDICATED ON DRAWINGS.
       - PRIMER(S): AS RECOMMENDED BY MANUFACTURER OF TOP COATS.
    c. EXTERIOR MASONRY WALLS
       - CORONADO TEXCRETE - MASONRY WATERPROOF COATING MEDIUM FINISH (W3196)
       - OR APPROVED EQUAL MASONRY COATING WITH A WATER VAPOR PERMEANCE OF 10 PERMS OR MORE
       - TINTED TO COLOR SELECTION INDICATED ON EXTERIOR ELEVATIONS
       - TO BE APPLIED IN STRICT ACCORDANCE TO MANUFACTURERS REQUIREMENTS

09 93 00 - STAINING AND TRANSPARENT FINISH

1. MANUFACTURER: GEMINI COATINGS, TWP 100 PRO-SERIES TOTAL WOOD PROTECTANT
2. FINISH: REFER TO EXTERIOR MATERIAL LEGEND.
3. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
4. TO BE APPLIED TO ALL EXPOSED HEAVY TIMBERS.

10 SPECIALTIES

10 28 00 - TOILET, BATH & LAUNDRY ACCESSORIES (IF REQUIRED)

1. MANUFACTURERS: AJW ARCHITECTURE PRODUCTS, AMERICAN SPECIALTIES, BRADLEY CORPORATION, GEORGIA-PACIFICA & BOBRICK.
2. STAINLESS STEEL, SATIN FINISH UNLESS OTHERWISE NOTED.
3. TOILET ACCESSORIES
   a. SOAP DISPENSER: BOBRICK B-4112, OR EQUAL
   b. TOILET PAPER DISPENSER: BOBRICK B-76867, OR EQUAL
   c. PAPER TOWER DISPENSER: BOBRICK B-3940, OR EQUAL
   d. MIRROR GLASS: STAINLESS STEEL FRAMED, ¼ INCH THICK ANNEALED FLOAT GLASS; ASTM C1036
      1. ANNEALED FLOAT GLASS : SILVERING, PROTECTIVE AND PHYSICAL CHARACTERISTICS IN COMPLIANCE WITH ASTM C1503.
      2. SIZE: 18 X 36 INCHES.
   e. STANDARD DUTY GRAB BARS: STAINLESS STEEL, PEENED SURFACE, FINISH; SATIN.
   f. COAT HOOK: BOBRICK B-212, OR EQUAL.
   g. MOP & BROOM HOLDER: 0.05 INCH THICK STAINLESS STEEL, TYPE 304, HAT-SHAPED CHANNEL, LENGTH: 36 INCHES.

10 44 00 - FIRE PROTECTION SPECIALTIES

1. FIRE EXTINGUISHERS CABINETS AND ACCESSORIES MANUFACTURERS: ANSI, NYSTROM & PYRO-CHEM
2. FIRE EXTINGUISHERS TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPPA 10 AND APPLICABLE CODES.
3. DRY CHEMICAL TYPE FIRE EXTINGUISHERS: STAINLESS STEEL TANK, WITH PRESSURE GAUGE.
   a. CLASS ABC TYPE SIZE: 5 POUND, TEMPERATURE RANGE TO BE MINUS 20 DEGREES F TO 120 DEGREES F.
4. FIRE EXTINGUISHER CABINETS TO BE LISTED AND LABELED IN ACCORDANCE WITH ASTM E814 REQUIREMENTS FOR FIRE RESISTANCE RATING OF WALLS WHERE BEING INSTALLED.
   a. CABINET: SEMI-RECESSED TYPE SIZED TO ACCOMMODATE ACCESSORIES. EXTERIOR TRIM DOOR TO BE N0. 4 BRUSHED STAINLESS STEEL. INTERIOR CABINET TO BE WHITE COLORED ENAMEL.

PHILLIP E. KERN
REG. NO. 15811
STATE OF LOUISIANA
REGISTERED ARCHITECT

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kern architects

St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
SPECIFICATIONS

SHEET NUMBER:
G2.3

LIFE SAFETY PLAN LEGEND

EXIT PATH

COMMON PATH OF TRAVEL

FIRE EXTINGUISHER (RECESSED IN CABINET) — FEC

EXIT SIGN

1 HOUR FIRE RATING - UL U419

2 HOUR FIRE RATING

PROJECT DESCRIPTION

RENOVATION OF EXISTING BANK BRANCH.
RENOVATION LIMITED TO FIRST FLOOR & EXTERIOR IMPROVEMENTS.

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE
2015 NFPA 101 LIFE SAFETY CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2020 NATIONAL ELECTRIC CODE
IECC 2021 LOUISIANA ENERGY CODE
2010 ADA-ABA

MINIMUM PLUMBING REQUIREMENTS

LOUISIANA STATE PLUMBING CODE 2015 EDITION

BUILDING OR OCCUPANCY

FIRST FLOOR
OCCUPANT CONTENT
150 SF PER PERSON x 4893 SF = 33 OCCUPANTS

WATER CLOSETS
REQUIRED MENS - 1, PROVIDED - 2 WC & 0 URINAL
REQUIRED WOMENS - 1, PROVIDED - 2 WC

LAVATORIES
REQUIRED MENS - 2, PROVIDED - 2
REQUIRED WOMENS - 1, PROVIDED - 2

DRINKING FOUNTAINS
REQUIRED - 1, PROVIDED - 1

ADA-AG

1. GROUND FLOOR SURFACES (SLIP-RESISTANT UNDER ALL WEATHER CONDITIONS).

2. THRESHOLDS SHALL COMPLY WITH SECTION 404.2.5 OF ADA-AG REGARDING CHANGES IN LEVEL. (NOT MORE THAN 1/2" HEIGHT AND BEVELED IF OVER 1/4").

3. DOOR HARDWARE SHALL COMPLY WITH SECTION 404.2.7 OF ADA-AG. HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AT NEW DOORS.

4. MANEUVERING CLEARANCES AT DOOR SHALL BE AS SHOWN IN FIGURE 404.2.4.1 ADA-AG.

5. TOILET ROOMS SHALL COMPLY WITH SECTION 603 OF ADA-AG.

6. WATER CLOSETS SHALL COMPLY WITH 604 AND 604.9 (AGES 9 THROUGH 12) OF ADA-AG

7. HANDICAP SIGN TO BE MOUNTED ON POST PER 502.6 ADA-AG

8. LAVATORIES SHALL COMPLY ITH 606.

9. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NOT MORE THAN 40" FROM THE FLOOR FOR ADULTS, 34" FOR CHILDREN.

10. TOILET ROOM GRAB BARS SHALL COMPLY WITH 604.5.

11. CONTROLS AND DISPENSERS SHALL COMPLY WITH 604.4 AND 604.7

12. ELECTRIC WATER COOLERS TO COMPLY WITH 602 ADA-AG

ADDITIONAL NOTES

1. INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-75 AND SMOKE DEVELOPED OF 0-450 EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION, FACING MAY COMPLY WITH APPLICABLE SBC CODES.
   b. EXPOSED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND A SMOKE DEVELOPED OF 0-450.

2. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-25 AND A SMOKE DEVELOPMENT RATING OF 0-450.

3. SEPARATE STORAGE ROOM FROM OTHER PARTS OF THE BUILDING BY 1 HOUR FIRE RESISTIVE CONSTRUCTION WITH SELF-CLOSING 45 MINUTE LABELED DOOR/FRAME ASSEMBLY.

4. A REQUIRED FIRE SEPARATION SHALL BE CONTINUOUS FROM FOUNDATION THROUGH ALL INTERVENING CONSTRUCTION TO THE ROOF DECK, FROM OUTSIDE WALL TO OUTSIDE WALL OR FROM FIRE BARRIER TO FIRE BARRIER. PROVIDE UL OR FM LISTED ASSEMBLY.

5. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN TESTED IN ACCORDANCE WITH ASTM-E814. PROVIDE DOCUMENTATION OF THE ASSEMBLIES USED TO THE INSPECTOR. RANDOM DESTRUCTIVE SAMPLING WILL BE CONDUCTED BY THE INSPECTOR.

CODE REVIEW - IBC 2021

USE AND OCCUPANCY CLASSIFICATION	IBC 304	BUSINESS
TYPE OF CONSTRUCTION	IBC 602.2, TABLE 601	TYPE IIB
MAXIMUM OCCUPANT LOAD	IBC 1004, TABLE 1004.1.1	64
MAXIMUM TRAVEL DISTANCE	IBC TABLE 1016.1	200'
MINIMUM EGRESS WIDTH	IBC 1005.1	.2"/OCCUPANT
	IBC 1008.1.1	32" MINIMUM CLEAR WIDTH PROVIDED AT DOORS
MINIMUM REQUIRED EXISTS	IBC 1021.1	2 EXITS
BUILDING AREA		9,626
RENOVATION AREA		5510
BUILDING CONSTRUCTION TO CONFORM TO REQUIREMENTS AS SET FORTH BY THE 2015 INTERNATIONAL BUILDING CODE		
SMOKE BARRIER	IBC 408.6	

IBC 303.1.1 SMALL ASSEMBLY SPACES
THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES:

1. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSOORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
2. A ROOM OR SPACE USED FOR ASSMEBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSOORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

CODE REVIEW - NFPA 101

USE AND OCCUPANCY CLASSIFICATION	NFPA 101.6.1.11	BUSINESS
CONSTRUCTION TYPE	NFPA 101 TABLE A.8.2.1.2	TYPE IIB
NON SPRINKLERED BUILDING		
MAXIMUM OCUPANT LOAD	NFPA 101 TABLE 7.3.1.2	
MAXIMUM TRAVEL DISTANCE	NFPA 101.38.2.6.2	200'
MAXIMUM COMMON PATH OF TRAVEL	NFPA 101.38.2.5.3.3	75'
MAXIMUM DEAD END CORRIDOR	NFPA 101 TABLE A.7.6	20'
MINIMUM EGRESS WIDTH	NFPA 101 TABLE 7.3.3.1	.2"/OCCUPANT
	NFPA 101 7.2.1.4	32" MINIMUM CLEAR WIDTH AT DOORS
	NFPA 101.38.2.3.2	44" MINIMUM CKEAR WIDTH AT CORRIDORS
MINIMUM REQUIRED EXITS	NFPA 101.7.4.1.1	2 EXITS
BUILDING AREA		9,626

OCCUPANCY		
Department	Area	Occupants
	5009 SF	
BUSINESS	3069 SF	
MECH	503 SF	

Travel Distance	
Travel Path	Travel Distance
PATH 1	65' - 8"
PATH 2	73' - 10"



Department Legend

BUSINESS

MECH

1 LIFE SAFETY PLAN
3/16" = 1'-0"

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REGISTERED ARCHITECT

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kern architects

St. Landry Bank

EUNICE RENOVATION

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EUNICE, LA. 70535

No.	Description	Date

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SHEET TITLE:
LIFE SAFETY PLAN

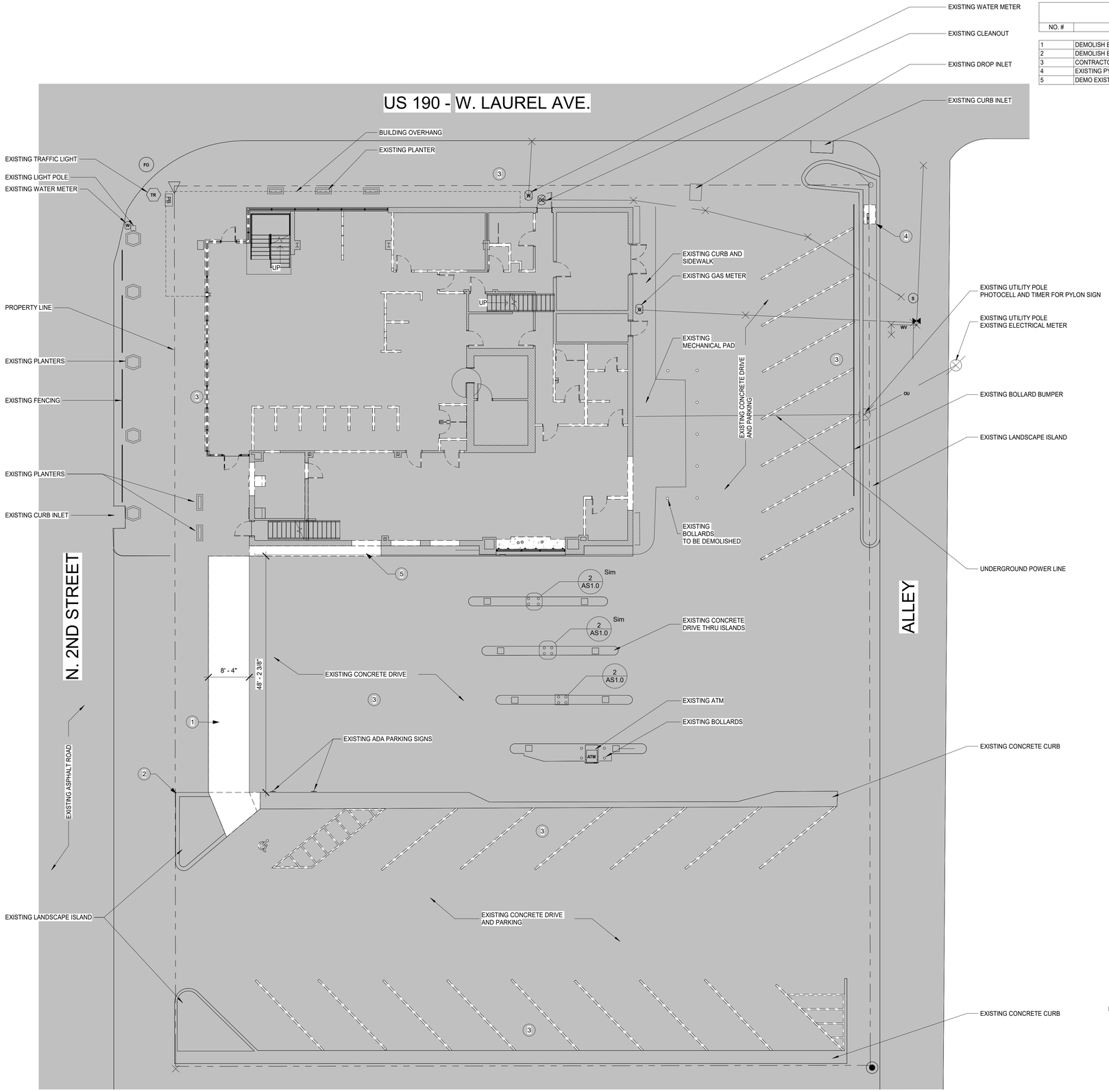
SHEET NUMBER:
LS1.0

DEMO KEYNOTES

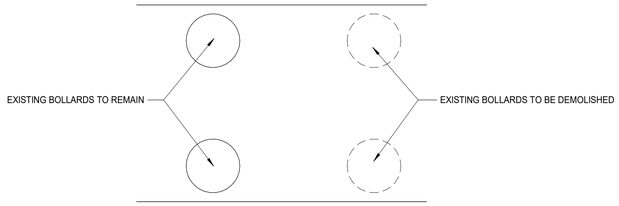
NO. #	Note
1	DEMOLISH EXISTING CONCRETE FOR NEW CROSSWALK
2	DEMOLISH EXISTING CURBS AND LANDSCAPE ISLAND FOR NEW CROSS WLAK.
3	CONTRACTOR TO SOFT WASH ALL EXISTING PAVING TO REMAIN. RESTRIPE ALL PARKING STALLS. REFER TO NEW SITE PLAN FOR PARKING LAYOUT.
4	EXISTING PYLON SIGN TO BE DEMOLISHED.
5	DEMO EXISTING CURB

SITE PLAN LEGEND

- EXISTING CONCRETE TO REMAIN
- NEW CONCRETE
- DEMO CONSTRUCTION



1 EXISTING SITE PLAN
1" = 10'-0"



2 EXISTING BOLLARDS DETAIL
1 1/2" = 1'-0"

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EUNICE RENOVATION

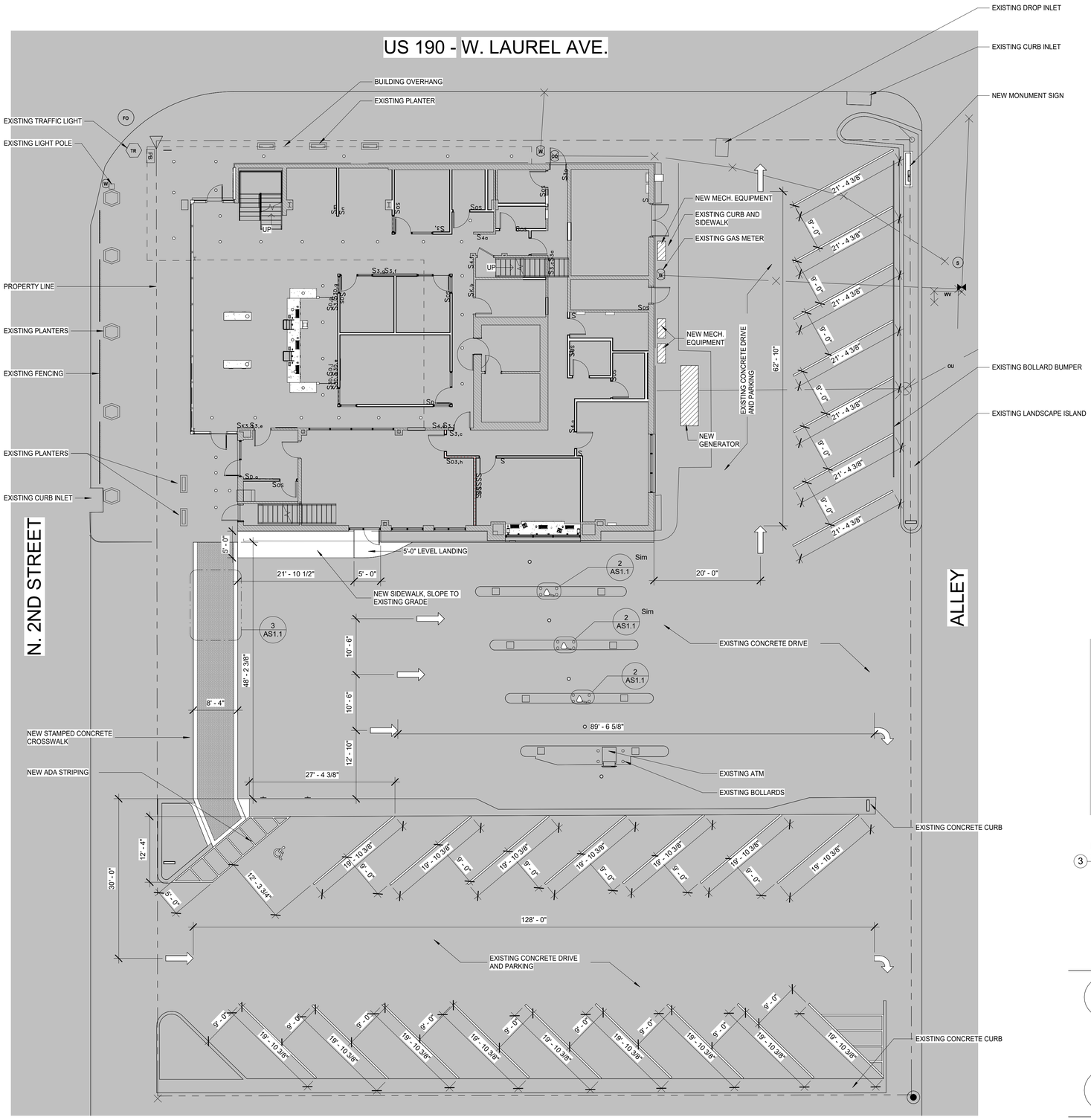
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
EXISTING SITE PLAN

SHEET NUMBER:
AS1.0



1 NEW SITE PLAN
1" = 10'-0"

SITE PLAN LEGEND

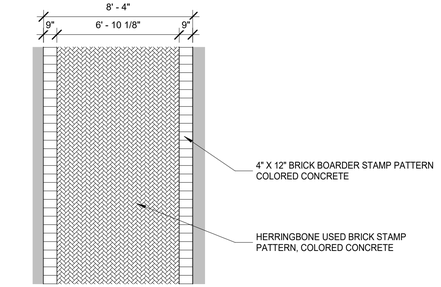
- EXISTING CONCRETE TO REMAIN
- NEW CONCRETE
- DEMO CONSTRUCTION

GENERAL SITE PLAN NOTES:

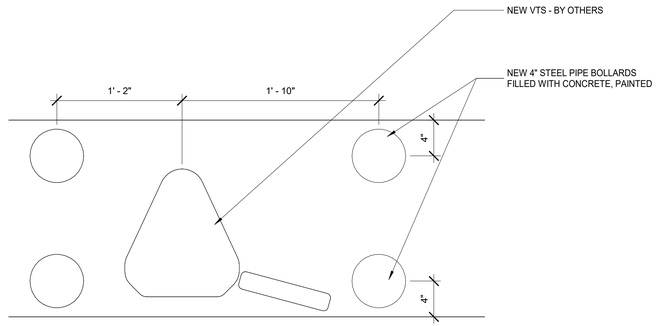
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL EXISTING MATERIALS NECESSARY TO FACILITATE CONSTRUCTION OF THE REQUIRED IMPROVEMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY JULES A. TOUPS, JR., PLS. PROFESSIONAL LAND SURVEYING.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND REPLACING ALL PINS DAMAGED OR ELIMINATED DURING CONSTRUCTION.
5. ALL SIGNING AND STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LOCAL CODES, AND ADA STANDARDS, LATEST EDITIONS.
6. REQUIRED PARKING STRIPING: 4" WIDE SOLID BLUE FOR ADA ACCESSIBLE SPACES, 4" WIDE WHITE FOR STANDARD NON-ADA SPACES.

STAMPED CONCRETE NOTES:

1. FOR STAMPED CONCRETE, CONTRACTOR TO PROVIDE JOINTS TO DELINEATE STAMPED PAVING AREAS.
2. PATTERN TO APPEAR CONTINUOUS WITH NO BREAKS OR OVERLAP.
3. CONTRACTOR TO PROVIDE 2FT X2FT SAMPLE STAMPED MOCK UP AREA FOR APPROVAL PRIOR TO CONSTRUCTION. COORDINATE LOCATION WITH GC.
4. CONTRACTOR TO PROVIDE CLEAN SMOOTH EDGES BETWEEN STAMPED AND NON-STAMPED AREAS.
5. INSTALL PER MANUFACTURER SPECIFICATIONS.
6. STAMP PATTERN TO BE HERRINGBONE USED BRICK (FM-5000S) & 4" X12" BRICK BORDER (TM-1000) BY BRICKFORM OR APPROVED EQUAL. PROVIDE CUT SHEET FOR APPROVAL PRIOR TO CONSTRUCTION.



3 ENLARGED PLAN - STAMPED CONCRETE
1/4" = 1'-0"



2 NEW BOLLARDS DETAIL
1 1/2" = 1'-0"

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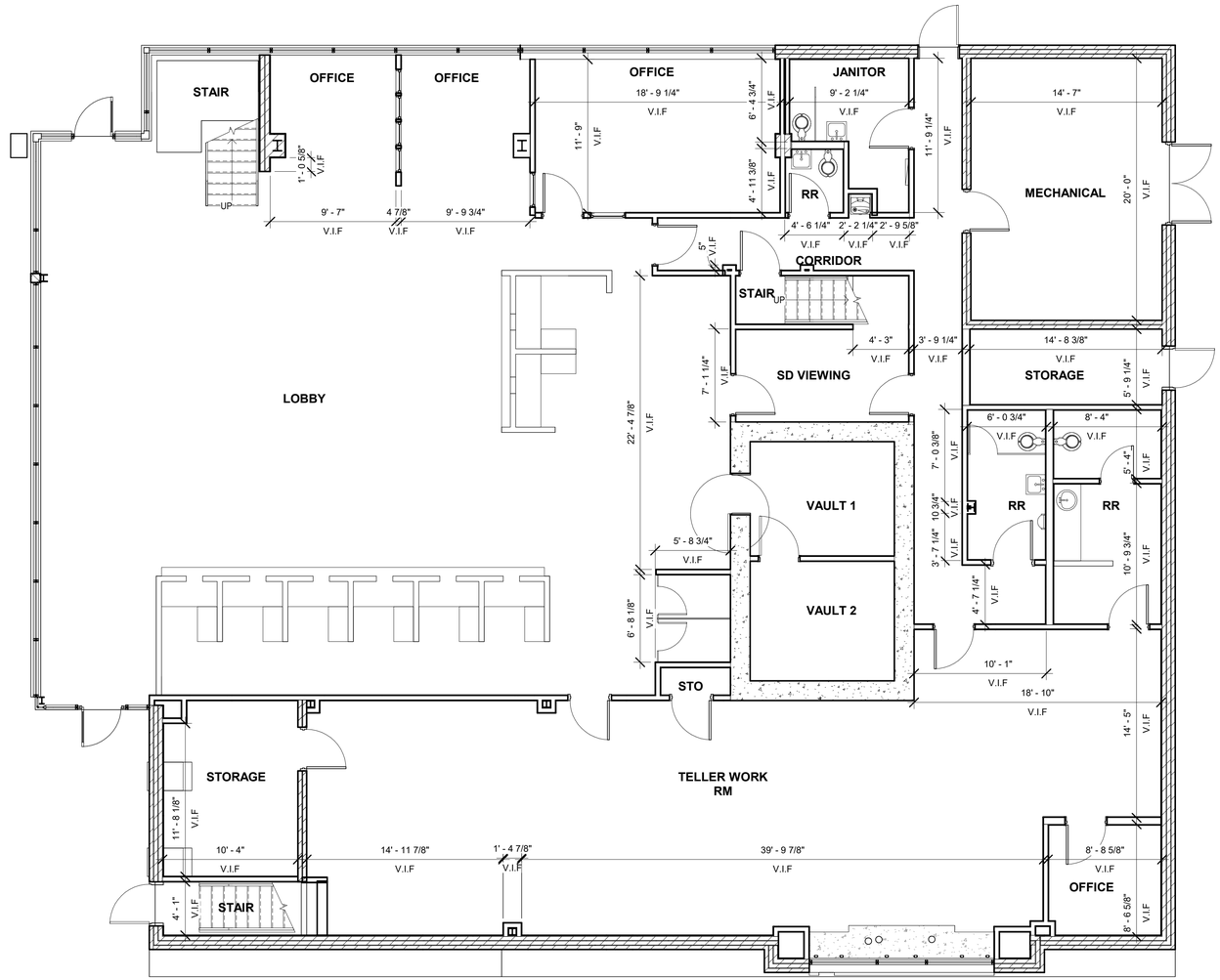
St. Landry Bank
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101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
NEW SITE PLAN

SHEET NUMBER:
AS1.1



1 EXISTING FIRST FLOOR PLAN
3/16" = 1'-0"

FLOOR PLAN NOTES

1. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
2. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
3. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS.

RENOVATION NOTES:

1. WALL INFILL. INSTALL FLUSH AND SMOOTH TO EXISTING WALL. PREP AS REQUIRED TO RECIEVE NEW FINISH.

WALL TYPES

TYPE A1 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE A2 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 6" METAL STUD FRAMING

TYPE A3 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 8" METAL STUD FRAMING

TYPE B1 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 3 5/8" METAL STUD FRAMING

TYPE B2 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 6" METAL STUD FRAMING

TYPE C1 - 5/8" GYP ON ONE SIDE TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE C2 - 5/8" GYP ON ONE SIDE TO ROOF DECK, 6" METAL STUD FRAMING

TYPE D1 - 1 HOUR RATED, SEE UL NUMBER ON SHEET LS1.0

FLOOR PLAN LEGEND

EXISTING CONSTRUCTION

DEMO CONSTRUCTION

NEW CONSTRUCTION

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REG. NO. 15811
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EUNICE RENOVATION

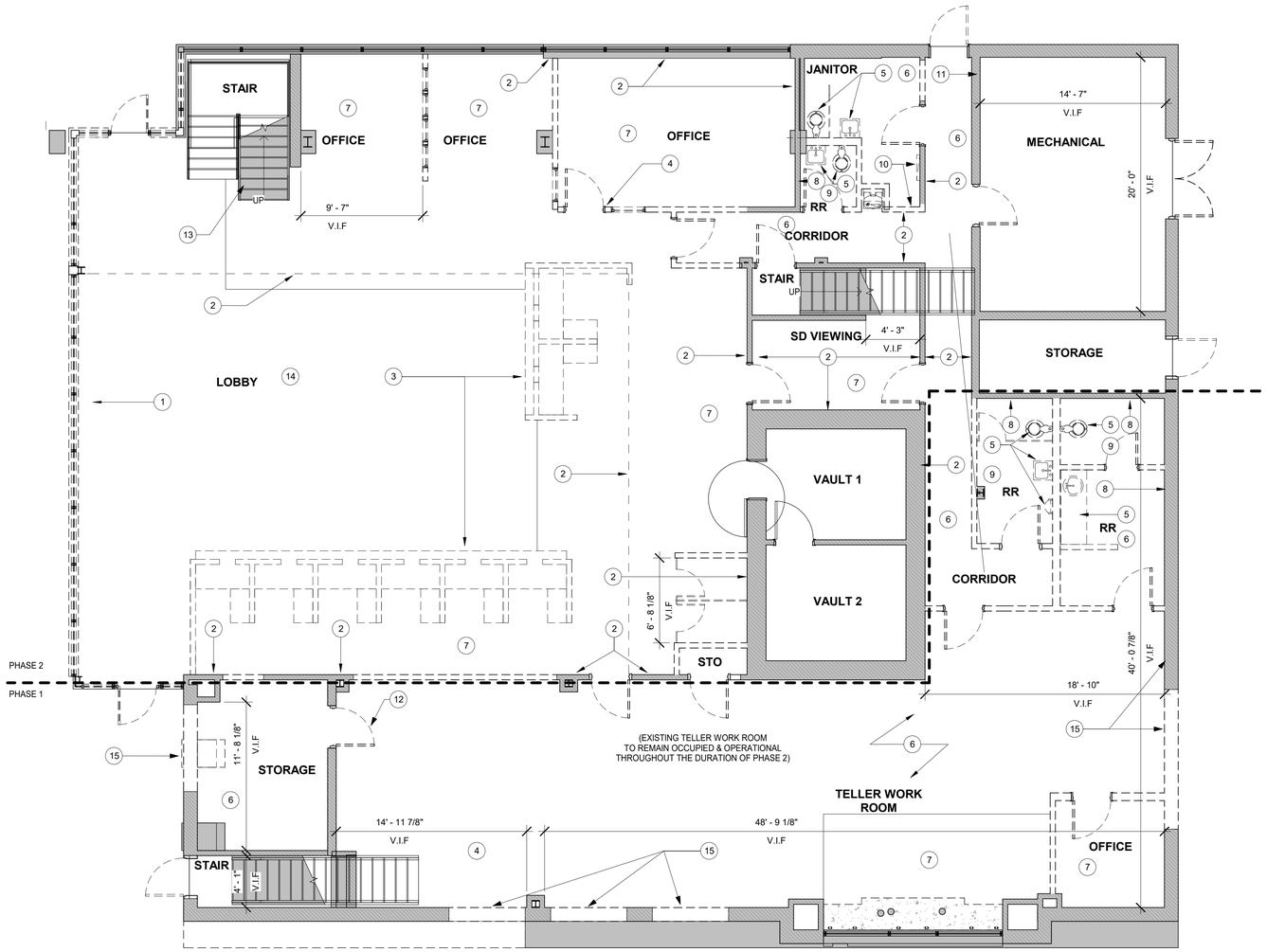
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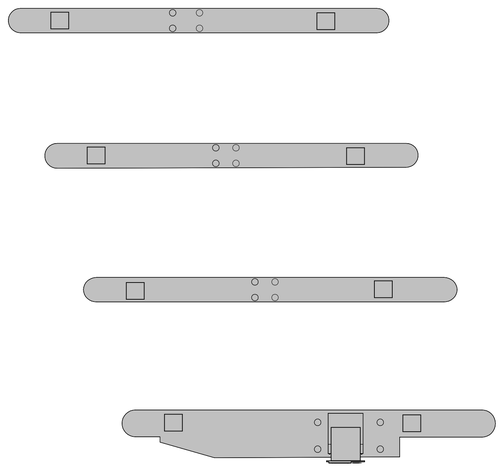
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
EXISTING FIRST FLOOR PLAN

SHEET NUMBER:
A1.0



1 DEMO FIRST FLOOR PLAN
3/16" = 1'-0"



GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ETC. AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID. ANY ITEMS NOT REPORTED SHALL BE CONSIDERED VERIFIED AND ACCEPTED BY THE CONTRACTOR.
2. ALL CONSTRUCTION SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES CURRENTLY IN EFFECT.
3. ALL WALLS, DOORS, WINDOWS, FURNISHINGS AND EQUIPMENT DENOTED WITH DASHED LINES ARE TO BE REMOVED.
4. PROTECT ALL EXISTING FINISHED ITEMS TO REMAIN, INCLUDING BUT NOT LIMITED TO FLOORS, WALLS, CEILINGS, MILLWORK, FIXTURES, ETC.
5. MATERIAL HAVING SALVAGE VALUE (INCLUDING BUT NOT LIMITED TO FURNITURE, FIXTURES, APPLIANCES, DOORS) SHALL BECOME THE PROPERTY OF THE OWNER. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
6. VERIFY FLOOR ELEVATIONS ON BOTH SIDE OF PARTITION BEING REMOVED. PREPARE FLOOR AS REQUIRED FOR SMOOTH LEVEL FLOOR CONDITION AS APPLICABLE FOR FINISH BEING INSTALLED.
7. REPAIR AND/OR REPLACE ANY ITEMS DAMAGED DURING DEMOLITION OR CONSTRUCTION. DOCUMENT ANY EXISTING DAMAGE PRIOR TO THE START OF DEMOLITION/CONSTRUCTION WITH PHOTOGRAPHIC EVIDENCE.
8. PROVIDE NECESSARY CONDUIT, JUNCTION BOXES, PULL STRING, ETC. FOR ROUGH-IN OF NEW DATA OUTLETS. COMMINCATIONS CONNECTIONS WILL BE MADE BY OTHERS. CONTACT OWNER ONCE A SCHEDULE HAS BEEN SET FOR FRAMING COMPLETION AND CLOSING IN WALL SO THAT OWNER CAN PULL ANY NECESSARY SECURITY OR DATA CABLING.
9. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.

FLOOR PLAN NOTES

1. ALL EXTERIOR WALLS ARE EXISTING.
2. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
3. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
4. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS. TEMP ADA SIGNAGE MAY BE REQUIRED FOR OSFM APPROVAL PRIOR TO SIGNAGE VENDOR INSTALL.
5. GC TO INVESTIGATE LOAD BEARING QUALITY PRIOR TO DEMOLISHING WALLS. IF ANY WALL IS LOAD BEARING GC SHOULD MAKE THE DESIGN TEAM AWARE BEFORE BEGINNING DEMO WORK.
6. NEW CONSTRUCTION DIMENSIONS ARE TYPICALLY TO FACE OF STUD, UNLESS NOTED OTHERWISE.
7. EXISTING BUILDING DIMENSIONS ARE TYPICALLY TO FACE OF EXISTING WALL

DEMO KEYNOTES

NO. #	Note
1	DEMO EXISTING EXTERIOR STOREFRONT AND CMU WALL. SEE EXTERIOR ELEVATION FOR FULL EXTENTS. PATCH AND REPAIR ANY PORTION OF EXISTING WALL TO REMAIN.
2	REMOVE EXISTING WALL COVERING. PREP WALL TO RECEIVE NEW PAINT.
3	EXISTING TELLER LINE TO BE DEMOLISHED.
4	LOCATION OF EXISTING SERVER RACK TO BE RELOCATED IN NEW DATA ROOM.
5	EXISTING PLUMBING FIXTURES AND MILLWORK TO BE DEMOLISHED. PREP WALLS AS REQUIRED TO RECEIVE NEW FINISHES. MODIFY PLUMING ROUGH-INS AS REQUIRED FOR NEW FIXTURES. REMOVE ANY RESTROOM ACCESSORIES.
6	EXISTING VCT FLOORING AND WALL BASE TO BE REMOVED. PREPARE SLAB TO RECEIVE NEW FLOORING. PREP WALL AS REQUIRED TO RECEIVE NEW FINISHES.
7	EXISTING CARPET FLOORING AND WOOD BASE TO BE REMOVED. PREPARE SLAB TO RECEIVE NEW FLOORING. PREP WALL AS REQUIRED TO RECEIVE NEW FINISHES.
8	REMOVE EXISTING CERAMIC WALL TILE AND BASE. PREP WALL AS REQUIRED TO RECEIVE NEW FINISHES
9	EXISTING TILE FLOORING TO BE REMOVED. PREPARE SLAB TO RECEIVE NEW FLOORING.
10	RFP ON EXISTING WALLS TO BE REMOVED. REPAIR/PREPARE WALL TO RECEIVE NEW FINISH.
11	REMOVE EXISTING AIR GRILL. INFILL WALL.
12	GC TO REMOVE EXISTING VAULT DOOR IN ITS ENTIRETY. PREP REMAINING WALL AND OPENING FOR NEW INTERIOR DOOR.
13	GC TO REMOVE EXISTING CARPET FROM STAIR TREADS. PREP STAIR PAN AS REQUIRED FOR NEW FLOORING.
14	GC TO GRIND DOWN EXISTING TERRAZZO FLOORING AND PREP FOR NEW FLOORING.
15	DEMO PORTION OF EXTERIOR TRIPLE WYTHE WALL. PATCH AND REPAIR ANY PORTION OF EXISTING WALL TO REMAIN.

FLOOR PLAN LEGEND

EXISTING CONSTRUCTION

DEMO CONSTRUCTION

NEW CONSTRUCTION

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DATE: 02/16/2026

SHEET TITLE:
DEMO FIRST FLOOR PLAN

SHEET NUMBER:
A1.1

FLOOR PLAN NOTES

1. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
2. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
3. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS.

RENOVATION NOTES:

1. WALL INFILL. INSTALL FLUSH AND SMOOTH TO EXISTING WALL. PREP AS REQUIRED TO RECIEVE NEW FINISH.

WALL TYPES

TYPE A1 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE A2 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 6" METAL STUD FRAMING

TYPE A3 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 8" METAL STUD FRAMING

TYPE B1 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 3 5/8" METAL STUD FRAMING

TYPE B2 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 6" METAL STUD FRAMING

TYPE C1 - 5/8" GYP ON ONE SIDE TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

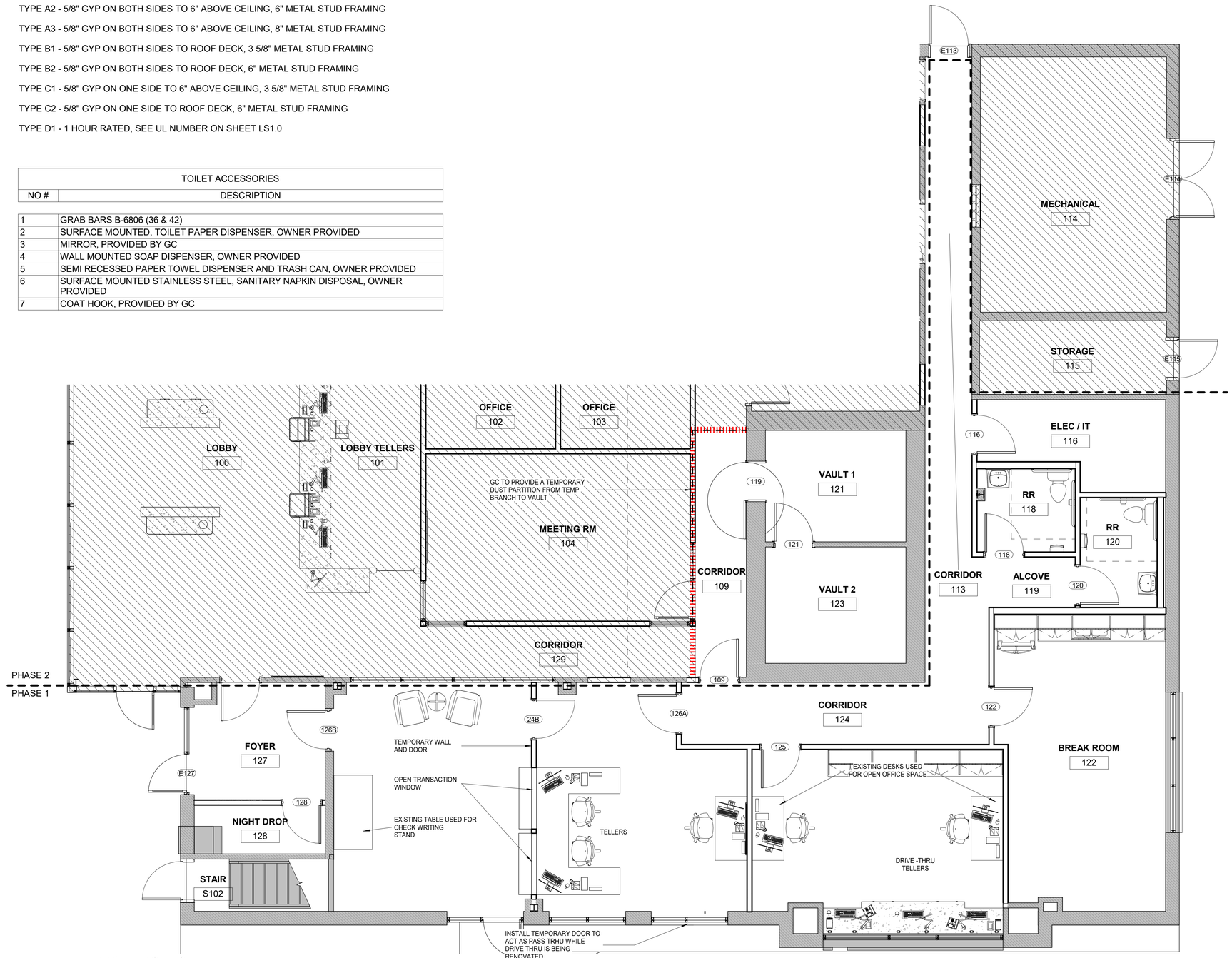
TYPE C2 - 5/8" GYP ON ONE SIDE TO ROOF DECK, 6" METAL STUD FRAMING

TYPE D1 - 1 HOUR RATED, SEE UL NUMBER ON SHEET LS1.0

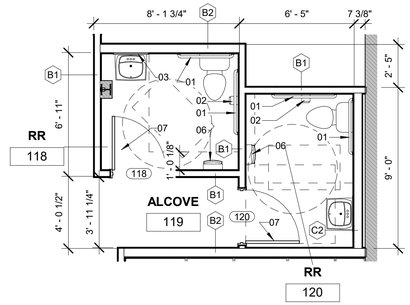
FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION
- DEMO CONSTRUCTION
- NEW CONSTRUCTION

TOILET ACCESSORIES	
NO #	DESCRIPTION
1	GRAB BARS B-6806 (36 & 42)
2	SURFACE MOUNTED, TOILET PAPER DISPENSER, OWNER PROVIDED
3	MIRROR, PROVIDED BY GC
4	WALL MOUNTED SOAP DISPENSER, OWNER PROVIDED
5	SEMI RECESSED PAPER TOWEL DISPENSER AND TRASH CAN, OWNER PROVIDED
6	SURFACE MOUNTED STAINLESS STEEL, SANITARY NAPKIN DISPOSAL, OWNER PROVIDED
7	COAT HOOK, PROVIDED BY GC



1 PHASE I RENOVATION
1/4" = 1'-0"



2 PHASE I ENLARGED RESTROOMS
1/4" = 1'-0"

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REG. NO. 15815
STATE OF LOUISIANA
REGISTERED ARCHITECT

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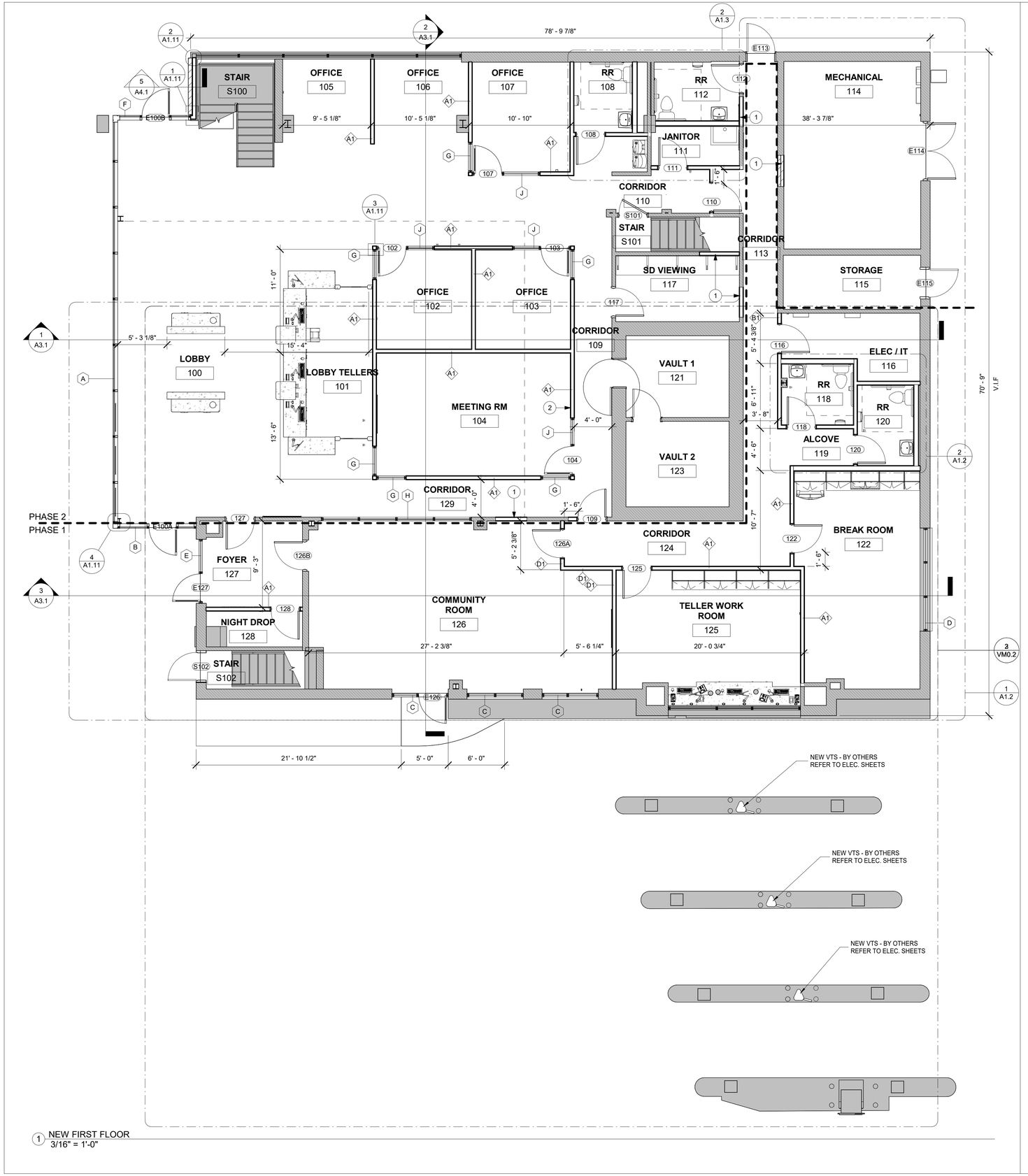
St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
TEMPORARY BRANCH FLOOR PLAN

SHEET NUMBER:
A1.2



1 NEW FIRST FLOOR
3/16" = 1'-0"

FLOOR PLAN KEYNOTES

NO. #	Note
1	WALL INFILL. INSTALL FLUSH AND SMOOTH TO EXISTING WALL. PREP AS REQUIRED TO RECIEVE NEW FINISH.
2	GC TO PROVIDE A TEMPORARY DUST PARTITION FROM TEMP BRANCH TO VAULT DURING CONSTRUCTION PHASE I.

FLOOR PLAN NOTES

1. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
2. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
3. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS.

RENOVATION NOTES:

1. WALL INFILL. INSTALL FLUSH AND SMOOTH TO EXISTING WALL. PREP AS REQUIRED TO RECIEVE NEW FINISH.

WALL TYPES

TYPE A1 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE A2 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 6" METAL STUD FRAMING

TYPE A3 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 8" METAL STUD FRAMING

TYPE B1 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 3 5/8" METAL STUD FRAMING

TYPE B2 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 6" METAL STUD FRAMING

TYPE C1 - 5/8" GYP ON ONE SIDE TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

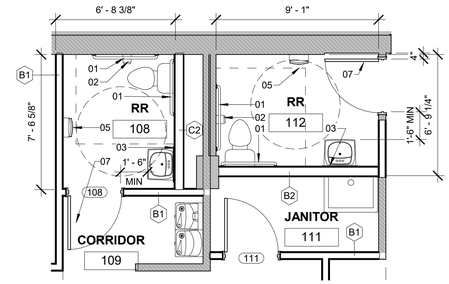
TYPE C2 - 5/8" GYP ON ONE SIDE TO ROOF DECK, 6" METAL STUD FRAMING

TYPE D1 - 1 HOUR RATED, SEE UL NUMBER ON SHEET LS1.0

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION
- DEMO CONSTRUCTION
- NEW CONSTRUCTION

TOILET ACCESSORIES	
NO #	DESCRIPTION
1	GRAB BARS B-6806 (36 & 42)
2	SURFACE MOUNTED, TOILET PAPER DISPENSER, OWNER PROVIDED
3	MIRROR, PROVIDED BY GC
4	WALL MOUNTED SOAP DISPENSER, OWNER PROVIDED
5	SEMI RECESSED PAPER TOWEL DISPENSER AND TRASH CAN, OWNER PROVIDED
6	SURFACE MOUNTED STAINLESS STEEL, SANITARY NAPKIN DISPOSAL, OWNER PROVIDED
7	COAT HOOK, PROVIDED BY GC



2 PHASE II ENLARGED RESTROOMS
1/4" = 1'-0"

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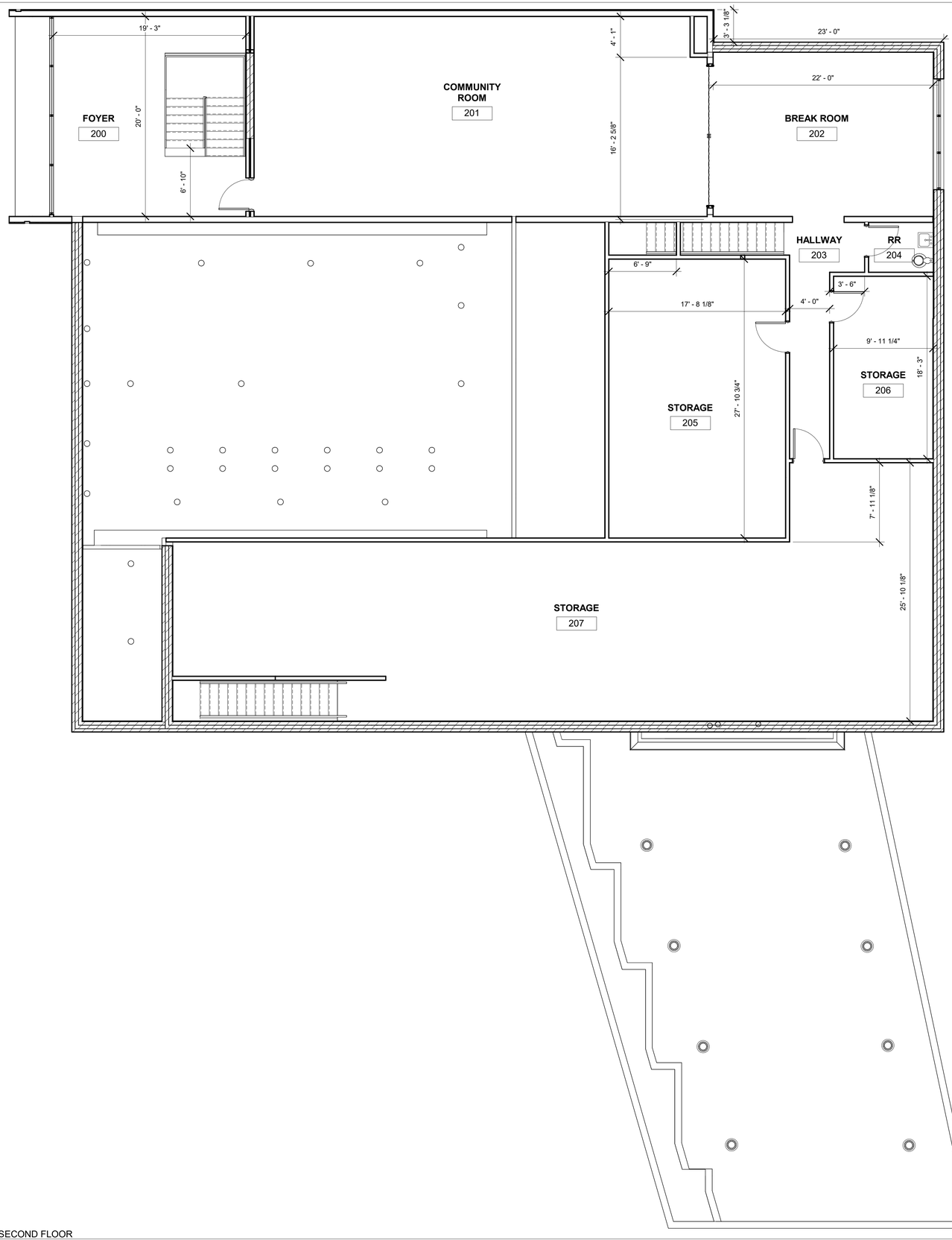
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
NEW FLOOR PLAN

SHEET NUMBER:
A1.3



1 EXISTING SECOND FLOOR
3/16" = 1'-0"

FLOOR PLAN NOTES

1. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
2. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
3. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS.

RENOVATION NOTES:

1. WALL INFILL. INSTALL FLUSH AND SMOOTH TO EXISTING WALL. PREP AS REQUIRED TO RECIEVE NEW FINISH.

WALL TYPES

TYPE A1 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE A2 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 6" METAL STUD FRAMING

TYPE A3 - 5/8" GYP ON BOTH SIDES TO 6" ABOVE CEILING, 8" METAL STUD FRAMING

TYPE B1 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 3 5/8" METAL STUD FRAMING

TYPE B2 - 5/8" GYP ON BOTH SIDES TO ROOF DECK, 6" METAL STUD FRAMING

TYPE C1 - 5/8" GYP ON ONE SIDE TO 6" ABOVE CEILING, 3 5/8" METAL STUD FRAMING

TYPE C2 - 5/8" GYP ON ONE SIDE TO ROOF DECK, 6" METAL STUD FRAMING

TYPE D1 - 1 HOUR RATED, SEE UL NUMBER ON SHEET LS1.0

FLOOR PLAN LEGEND

EXISTING CONSTRUCTION

DEMO CONSTRUCTION

NEW CONSTRUCTION

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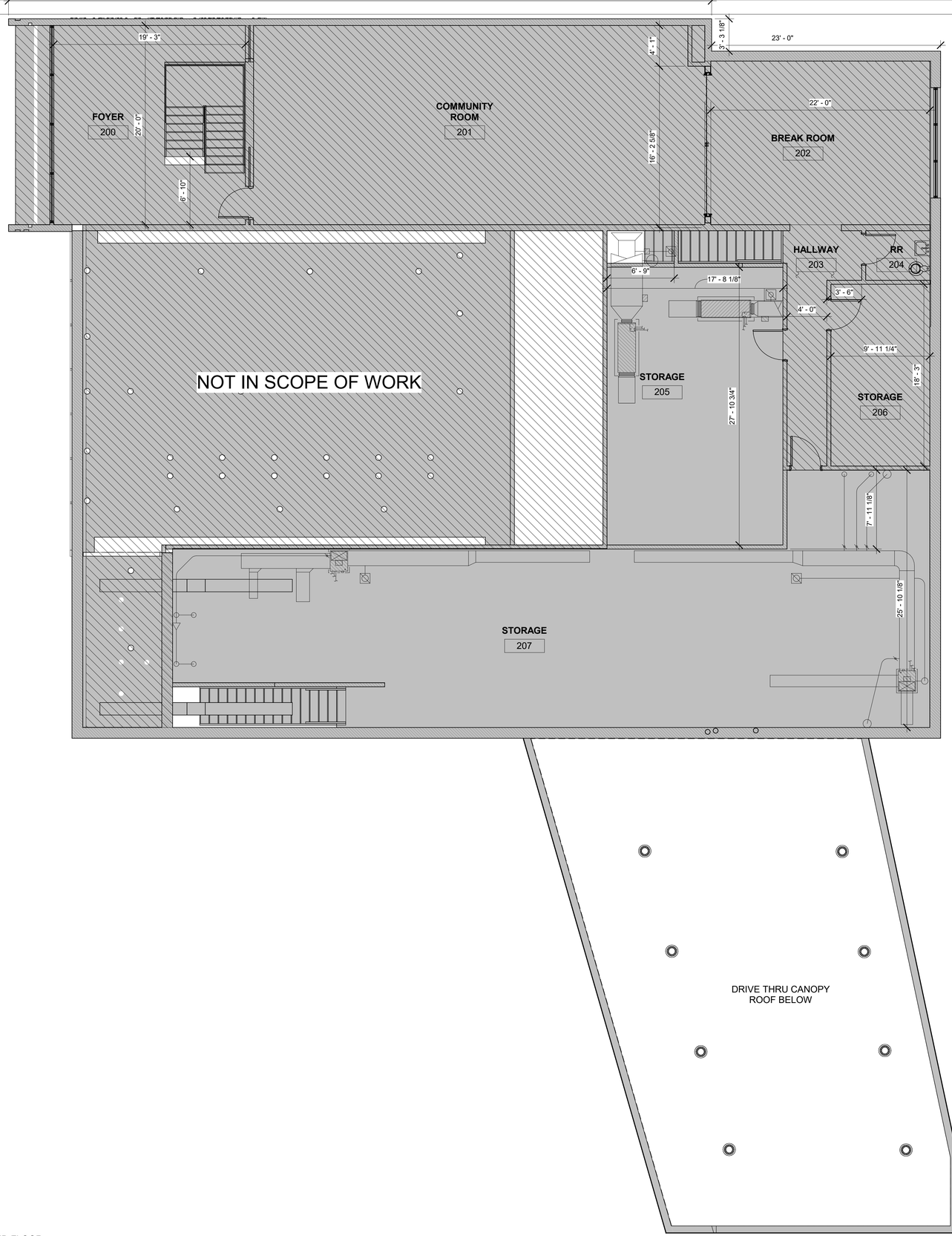
St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
EXISTING SECOND FLOOR PLAN

SHEET NUMBER:
A1.4



1 DEMO SECOND FLOOR
3/16" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ETC. AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID. ANY ITEMS NOT REPORTED SHALL BE CONSIDERED VERIFIED AND ACCEPTED BY THE CONTRACTOR.
2. ALL CONSTRUCTION SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES CURRENTLY IN EFFECT.
3. ALL WALLS, DOORS, WINDOWS, FURNISHINGS AND EQUIPMENT DENOTED WITH DASHED LINES ARE TO BE REMOVED.
4. PROTECT ALL EXISTING FINISHED ITEMS TO REMAIN, INCLUDING BUT NOT LIMITED TO FLOORS, WALLS, CEILINGS, MILLWORK, FIXTURES, ETC.
5. MATERIAL HAVING SALVAGE VALUE (INCLUDING BUT NOT LIMITED TO FURNITURE, FIXTURES, APPLIANCES, DOORS) SHALL BECOME THE PROPERTY OF THE OWNER. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
6. VERIFY FLOOR ELEVATIONS ON BOTH SIDE OF PARTITION BEING REMOVED. PREPARE FLOOR AS REQUIRED FOR SMOOTH LEVEL FLOOR CONDITION AS APPLICABLE FOR FINISH BEING INSTALLED.
7. REPAIR AND/OR REPLACE ANY ITEMS DAMAGED DURING DEMOLITION OR CONSTRUCTION. DOCUMENT ANY EXISTING DAMAGE PRIOR TO THE START OF DEMOLITION/CONSTRUCTION WITH PHOTOGRAPHIC EVIDENCE.
8. PROVIDE NECESSARY CONDUIT, JUNCTION BOXES, PULL STRING, ETC. FOR ROUGH-IN OF NEW DATA OUTLETS. COMMINCATIONS CONNECTIONS WILL BE MADE BY OTHERS. CONTACT OWNER ONCE A SCHEDULE HAS BEEN SET FOR FRAMING COMPLETION AND CLOSING IN WALL SO THAT OWNER CAN PULL ANY NECESSARY SECURITY OR DATA CABLING.
9. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.

FLOOR PLAN NOTES

1. ALL EXTERIOR WALLS ARE EXISTING.
2. ALL INTERIOR WALLS TO BE TYPE A1 UNLESS OTHERWISE NOTED.
3. SOUND BATT INSULATION REQUIRED IN ALL INTERIOR WALLS UP TO 6" ABOVE CEILING. DRAPE SOUND BATTS OVER TOP OF INTERIOR WALLS TO OVERHANG 18" EACH SIDE.
4. ALL INTERIOR AND EXTERIOR WAYFINDING SIGNAGE, INCLUDING ADA REQUIRED BRAILLE AND PARKING SIGNAGE, IS TO BE PROVIDED & INSTALLED BY OTHERS. TEMP ADA SIGNAGE MAY BE REQUIRED FOR OSFM APPROVAL PRIOR TO SIGNAGE VENDOR INSTALL.
5. GC TO INVESTIGATE LOAD BEARING QUALITY PRIOR TO DEMOLISHING WALLS. IF ANY WALL IS LOAD BEARING GC SHOULD MAKE THE DESIGN TEAM AWARE BEFORE BEGINNING DEMO WORK.
6. NEW CONSTRUCTION DIMENSIONS ARE TYPICALLY TO FACE OF STUD, UNLESS NOTED OTHERWISE.
7. EXISTING BUILDING DIMENSIONS ARE TYPICALLY TO FACE OF EXISTING WALL

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION
- DEMO CONSTRUCTION
- NEW CONSTRUCTION

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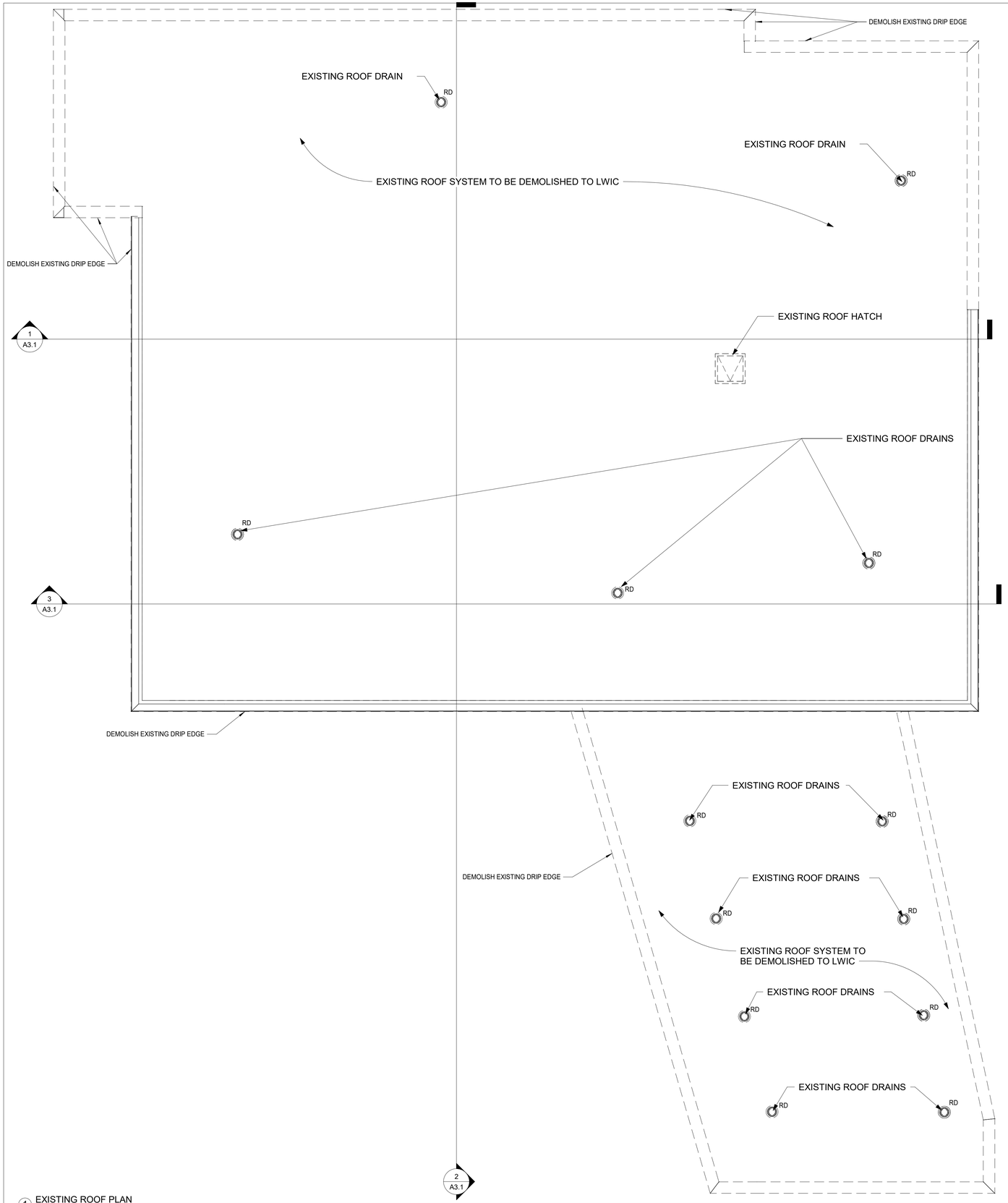
St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
DEMO SECOND FLOOR PLAN

SHEET NUMBER:
A1.5



1 EXISTING ROOF PLAN
3/16" = 1'-0"

GENERAL ROOF NOTES:

1. CONTRACTOR TO VERIFY ALL ROOF DRAIN QUANTITIES AND LOCATIONS IN FEILD. ALL ROOF DRAINS TO BE REPLACED WITH NEW.
2. MATERIAL WARRANTY: MANUFACTURER'S 20-YEAR, NO DOLLAR LIMIT (NDL), NON-PRORATED TO COVER MATERIALS OF ROOF SYSTEM (INCLUDES ROOFING, INSULATION, RELATED FLASHINGS, AND INCIDENTAL ROOF SYSTEM CONSTRUCTION COMPONENTS), AND LABOR TO REPAIR ANY LEAKS AND/OR FAILURES OCCURING WITHIN THE WARRANTY PERIOD.
3. CONTRACTOR'S WARRANTY: A(2) TWO-YEAR MATERIAL AND LABOR WARRANTY TO REPAIR ANY LEAKS (AND OTHER DAMAGE CAUSED BY THESE LEAKS) WITHIN THE WARRANTY PERIOD FOR ROOFING, FLASHING, AND COPING, FROM DECK UP.
4. ALL NEW METAL COPINGS TO MEET ES-1 STANDARDS.

EXISTING ROOF SCHEDULE:

1. MAIN BUILDING ROOF - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK
2. DRIVE THRU ROOF SECTION - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION
- DEMO CONSTRUCTION
- NEW CONSTRUCTION

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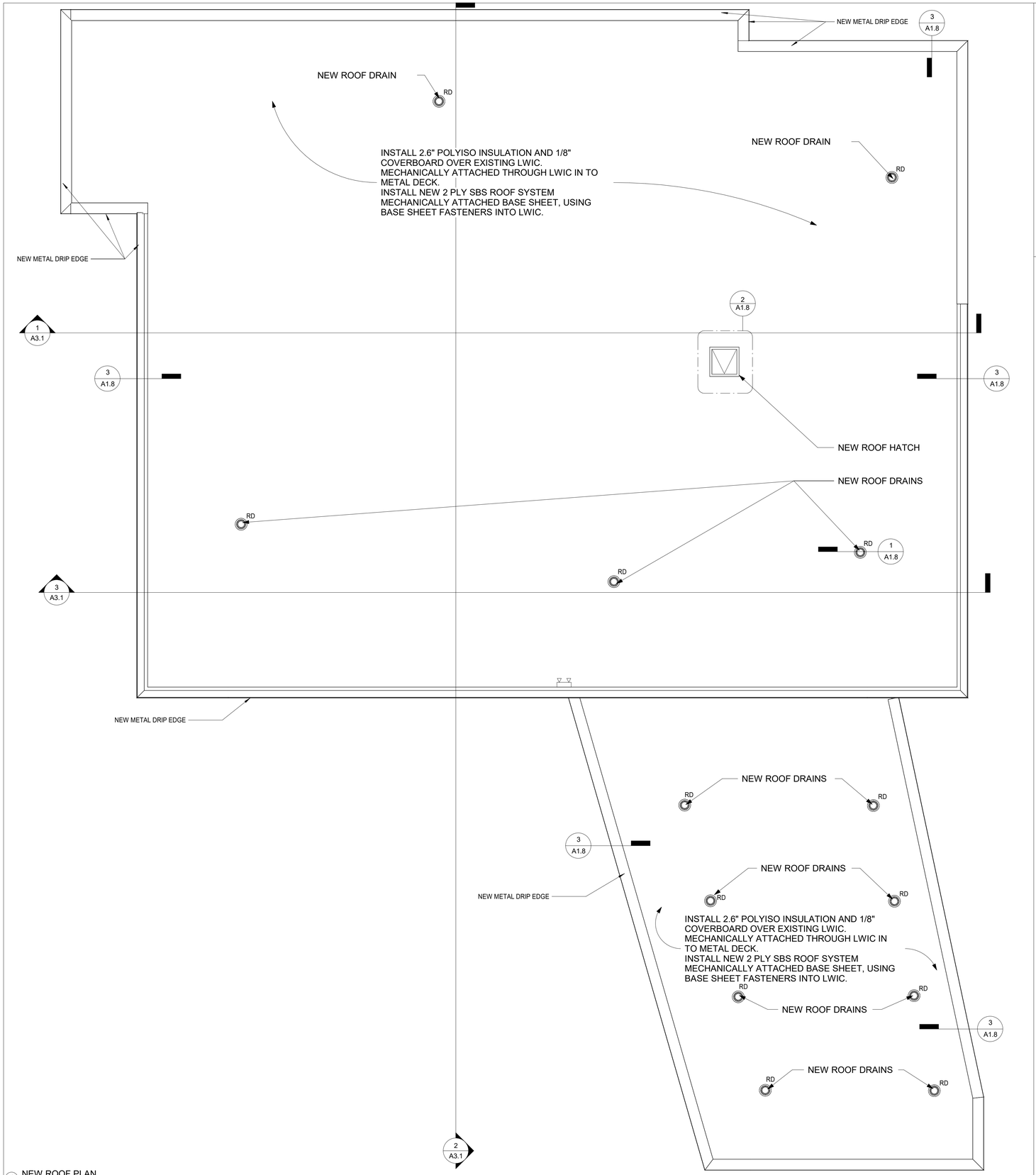
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101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
EXISTING ROOF PLAN

SHEET NUMBER:
A1.6



1 NEW ROOF PLAN
3/16" = 1'-0"

GENERAL ROOF NOTES:

1. CONTRACTOR TO VERIFY ALL ROOF DRAIN QUANTITIES AND LOCATIONS IN FEILD. ALL ROOF DRAINS TO BE REPLACED WITH NEW.
2. MATERIAL WARRANTY: MANUFACTURER'S 20-YEAR, NO DOLLAR LIMIT (NDL), NON-PRORATED TO COVER MATERIALS OF ROOF SYSTEM (INCLUDES ROOFING, INSULATION, RELATED FLASHINGS, AND INCIDENTAL ROOF SYSTEM CONSTRUCTION COMPONENTS), AND LABOR TO REPAIR ANY LEAKS AND/OR FAILURES OCCURING WITHIN THE WARRANTY PERIOD.
3. CONTRACTOR'S WARRANTY: A(2) TWO-YEAR MATERIAL AND LABOR WARRANTY TO REPAIR ANY LEAKS (AND OTHER DAMAGE CAUSED BY THESE LEAKS) WITHIN THE WARRANTY PERIOD FOR ROOFING, FLASHING, AND COPING, FROM DECK UP.
4. ALL NEW METAL COPINGS TO MEET ES-1 STANDARDS.

EXISTING ROOF SCHEDULE:

1. MAIN BUILDING ROOF - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK
2. DRIVE THRU ROOF SECTION - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION
- DEMO CONSTRUCTION
- NEW CONSTRUCTION

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101 NORTH 2ND STREET
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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
NEW ROOF PLAN

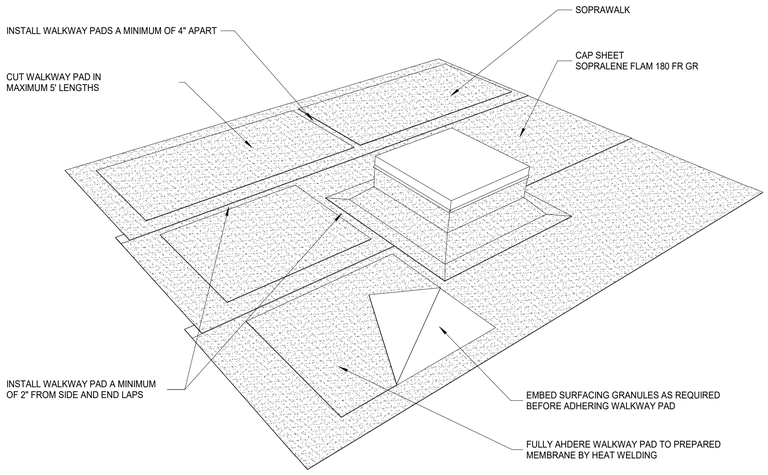
SHEET NUMBER:
A1.7

GENERAL ROOF NOTES:

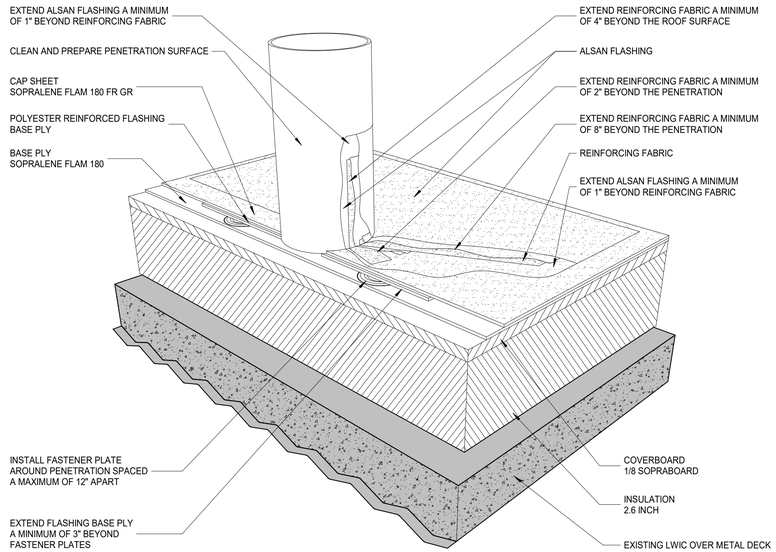
1. CONTRACTOR TO VERIFY ALL ROOF DRAIN QUANTITIES AND LOCATIONS IN FEILD. ALL ROOF DRAINS TO BE REPLACED WITH NEW.
2. MATERIAL WARRANTY: MANUFACTURER'S 20-YEAR, NO DOLLAR LIMIT (NDL), NON-PRORATED TO COVER MATERIALS OF ROOF SYSTEM (INCLUDES ROOFING, INSULATION, RELATED FLASHINGS, AND INCIDENTAL ROOF SYSTEM CONSTRUCTION COMPONENTS), AND LABOR TO REPAIR ANY LEAKS AND/OR FAILURES OCCURING WITHIN THE WARRANTY PERIOD.
3. CONTRACTOR'S WARRANTY: A(2) TWO-YEAR MATERIAL AND LABOR WARRANTY TO REPAIR ANY LEAKS (AND OTHER DAMAGE CAUSED BY THESE LEAKS) WITHIN THE WARRANTY PERIOD FOR ROOFING, FLASHING, AND COPING, FROM DECK UP.
4. ALL NEW METAL COPINGS TO MEET ES-1 STANDARDS.

EXISTING ROOF SCHEDULE:

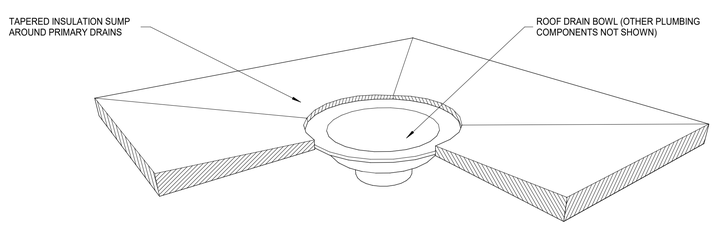
1. MAIN BUILDING ROOF - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK
2. DRIVE THRU ROOF SECTION - SINGLE-PLY MEMBRANE, ASPHALT BASED BUILT UP ROOF WITH GRAVEL BALLEST, LIGHTWEIGHT INSULATING CONCRETE LAYER, METAL DECK

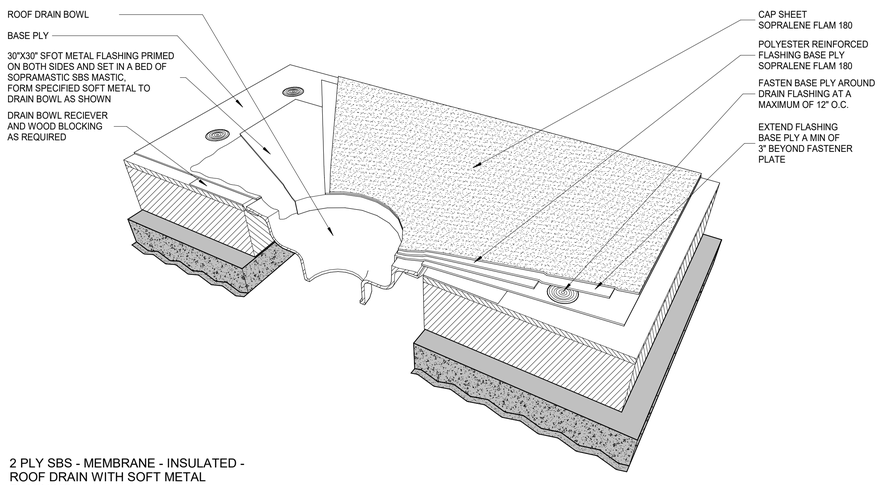


SBS MEMBRANE-WALKWAYS AND PROTECTION PADS
2 1" = 1'-0"

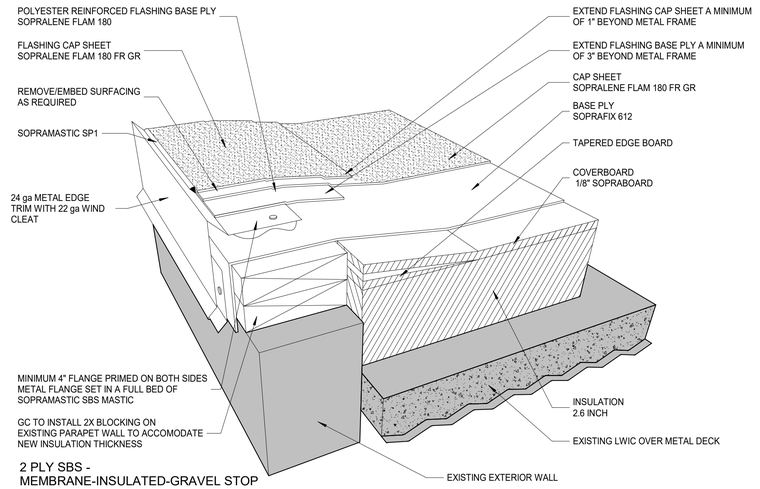


2 PLY SBS MEMBRANE - INSULATED - PIPE PENETRATION WITH LIQUID FLASHING
5 1" = 1'-0"

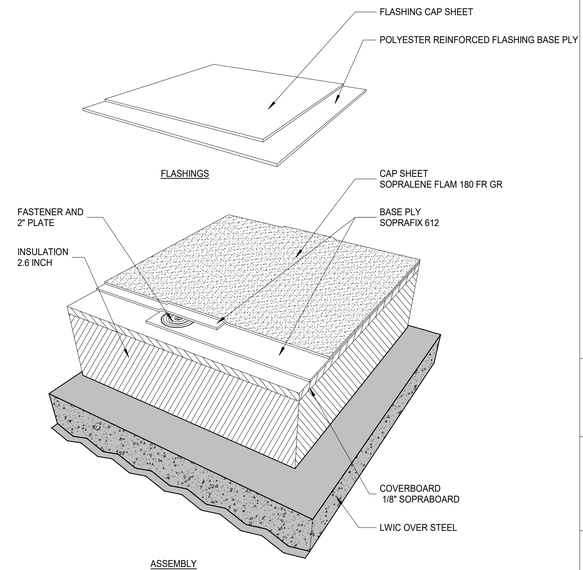




2 PLY SBS - MEMBRANE - INSULATED - ROOF DRAIN WITH SOFT METAL FLASHING
1 1" = 1'-0"



2 PLY SBS - MEMBRANE-INSULATED-GRAVEL STOP EDGE
3 1" = 1'-0"



ASSEMBLY
2 PLY SBS - MEMBRANE - INSULATED - ROOF ASSEMBLY
4 1" = 1'-0"

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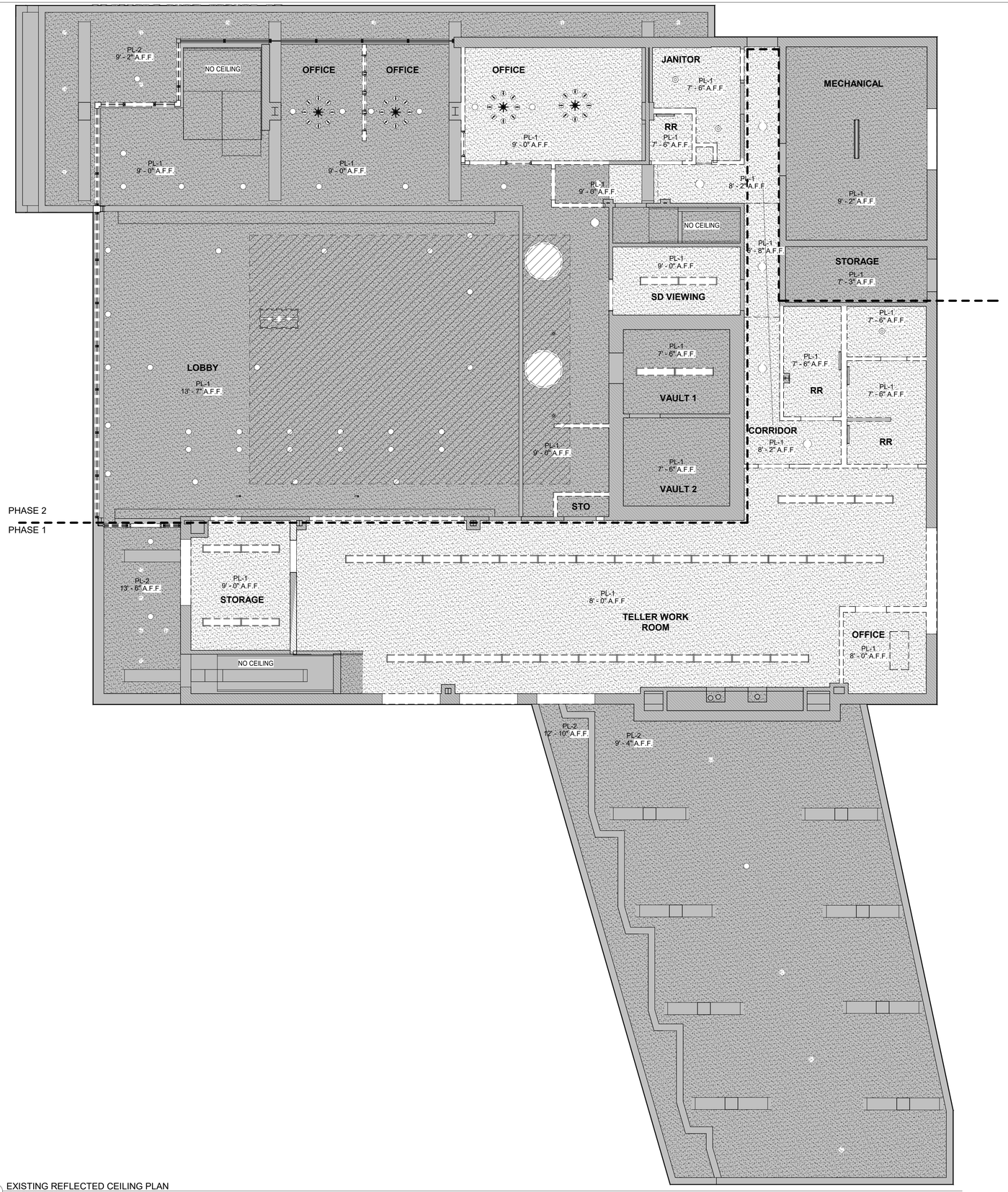
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EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A1.8



1 EXISTING REFLECTED CEILING PLAN
3/16" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- ACT
  24"X24" ACOUSTICAL CEILING TILE AND GRID
  ARMSTRONG FINE FISSURED 1728, 15/16" EXPOSED TEE GRID
- GYP
  PAINTED GYPSUM BOARD CEILING
- PL-1
  EXISTING PAINTED PLASTER CEILING
  TO BE REPAINTED
- PL-2
  EXISTING PAINTED PLASTER SOFFIT
  TO BE REPAINTED
- SUPPLY AIR. RE: MECHANICAL DRAWINGS
- RETURN AIR. RE: MECHANICAL DRAWINGS
- 24"X 48" LED LIGHT
- 24"X 96" LED LIGHT
- AREA OF EXISTING SUSPENDED PLASTER CEILING
  TO BE REMOVED TO ACCOMODATE
  NEW SUSPENDED CEILINGS

1. CEILING GRID SHALL BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE
2. CENTER LIGHT FIXTURES, EXIT LIGHTS, SPRINKLER HEADS, SPEAKERS AND OTHER CEILING MOUNTED FIXTURES IN PANELS UNLESS OTHERWISE NOTED.
3. ALL LIGHT FIXTURES IN GYPSUM BOARD CEILING SHALL BE CENTERED IN ROOM UNLESS INDICATED OTHERWISE.

PHILLIP E. KERN
REG. NO. 15611
STATE OF LOUISIANA
REGISTERED ARCHITECT

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EUNICE RENOVATION

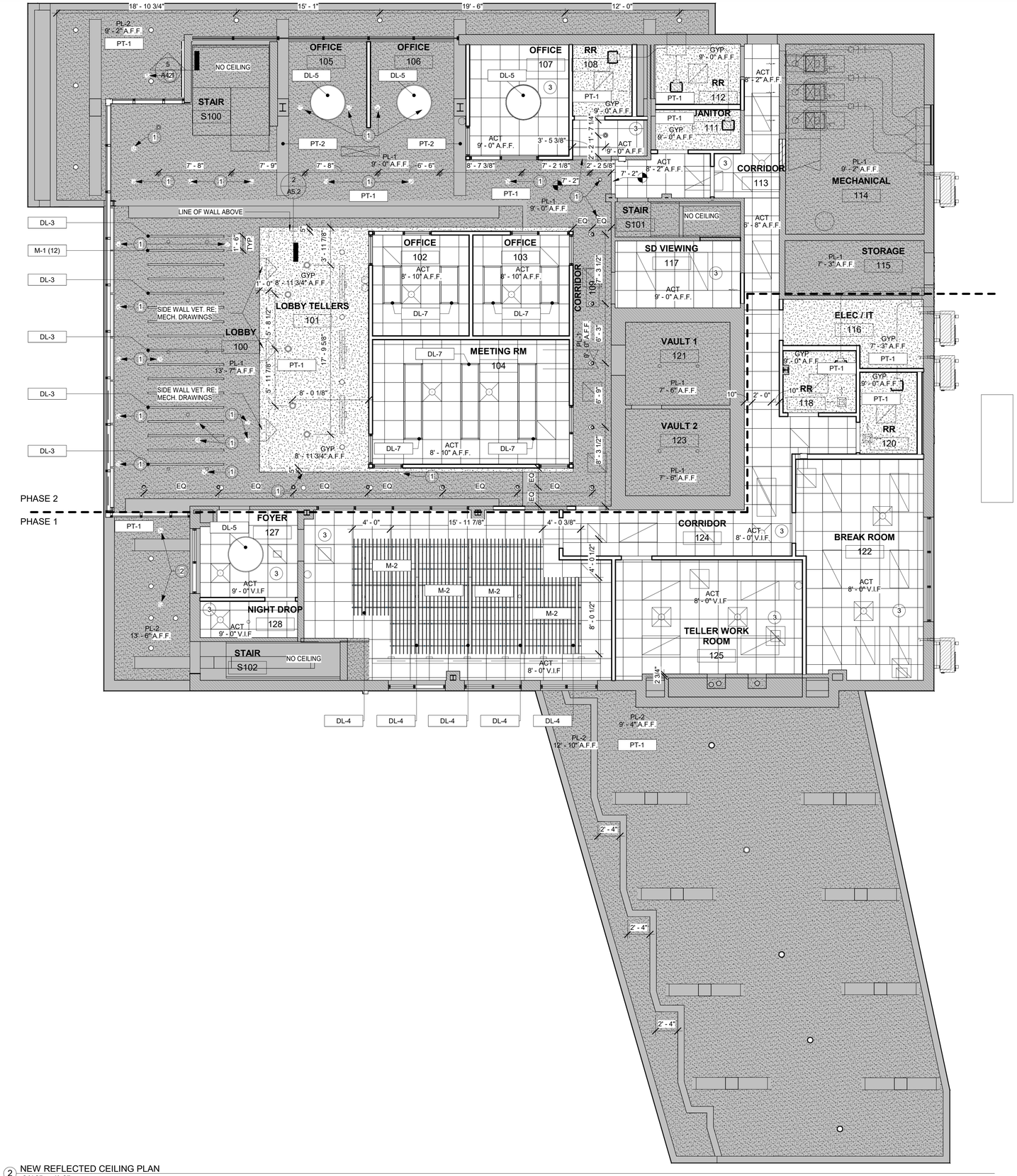
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
DEMO REFLECTED CEILING PLAN

SHEET NUMBER:
A1.9



2 NEW REFLECTED CEILING PLAN
3/16" = 1'-0"

CEILING PLAN KEYNOTES

NO. #	Note
1	EXISTING PLASTER CEILING AREAS TO BE PATCHED AND REPAINTED
2	EXISTING PLASTER SOFFIT AREAS TO BE PATCHED AND REPAINTED
3	EXISTING PLASTER CEILING TO BE DEMOLISHED IN AREAS INDICATED. FOLLOWING DEMOLITION, CONTRACTOR SHALL SCHEDULE AN ON-SITE FIELD VERIFICATION MEETING WITH THE ARCHITECT TO CONFIRM FINAL ELEVATION OF NEW SUSPENDED ACOUSTICAL TILE (ACT) CEILING. CONTRACTOR SHALL INCLUDE A $10,000.00 ALLOWANCE FOR POTENTIAL ADDITIONAL GYPSUM BOARD, TAPING, AND FLOATING REQUIRED DUE TO CEILING HEIGHT ADJUSTMENT.

REFLECTED CEILING PLAN LEGEND

- ACT — 24"X24" ACOUSTICAL CEILING TILE AND GRID ARMSTRONG FINE FISSURED 1728, 15/16" EXPOSED TEE GRID
- GYP — PAINTED GYPSUM BOARD CEILING
- PL-1 — EXISTING PAINTED PLASTER CEILING TO BE REPAINTED
- PL-2 — EXISTING PAINTED PLASTER SOFFIT TO BE REPAINTED
- SUPPLY AIR. RE: MECHANICAL DRAWINGS
- RETURN AIR. RE: MECHANICAL DRAWINGS
- 24"X 48" LED LIGHT
- 24"X 96" LED LIGHT
- AREA OF EXISTING SUSPENDED PLASTER CEILING TO BE REMOVED TO ACCOMODATE NEW SUSPENDED CEILINGS

1. CEILING GRID SHALL BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE
2. CENTER LIGHT FIXTURES, EXIT LIGHTS, SPRINKLER HEADS, SPEAKERS AND OTHER CEILING MOUNTED FIXTURES IN PANELS UNLESS OTHERWISE NOTED.
3. ALL LIGHT FIXTURES IN GYPSUM BOARD CEILING SHALL BE CENTERED IN ROOM UNLESS INDICATED OTHERWISE.

DECORATIVE LIGHTING LEGEND

MARK	MANUFACTURER	DESCRIPTION	MODEL NO.
DL-1	FOCAL POINT LIGHTING	ID+ 3.5" CYLINDER SURFACE MOUNT	FLCY3_SM_V
DL-2	FOCAL POINT LIGHTING	ID+ 3.5" CYLINDER SUSPENDED PENDANT	FLCY3_Z
DL-3	FOCAL POINT LIGHTING	SEEM 1 ACOUSTIC DIRECT SUSPENDED BAFFLE; COLOR: CHARCOAL GRAY	ASM1S_AE
DL-4	FOCAL POINT LIGHTING	SEEM 2 SURFACE MOUNT	FSM2LS_AS
DL-5	FOCAL POINT LIGHTING	SKYDOME EDGE-LIT SURFACE MOUNT	FSDEP_SM_N
DL-6	COOPER LIGHTING	PRENTALUX 307-3D PRINTED LUMINAIRE	PRLX_307_WHTE
DL-7	ARON LIGHTING	EDGE 2" RECESSED GRID MOUNT TO CREATE 2' X 4'	EDGET1_FF_RTB
DL-8	ACOLYTE	RIBBONLYTE STATIC WHITE SERIES 2 WITH AC3 TRIM	RB90_SWS220_4.440

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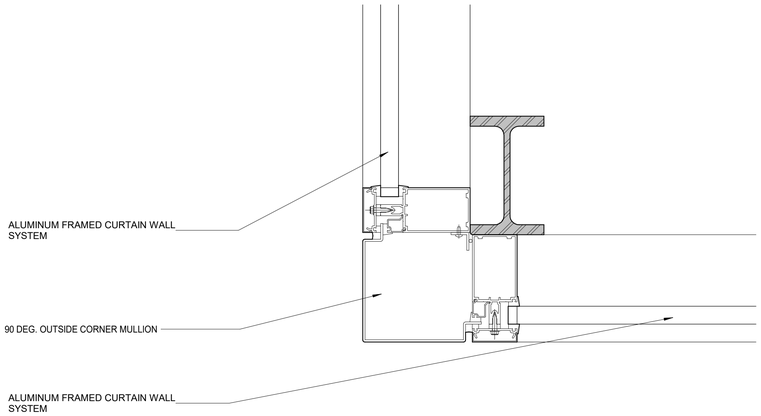
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101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

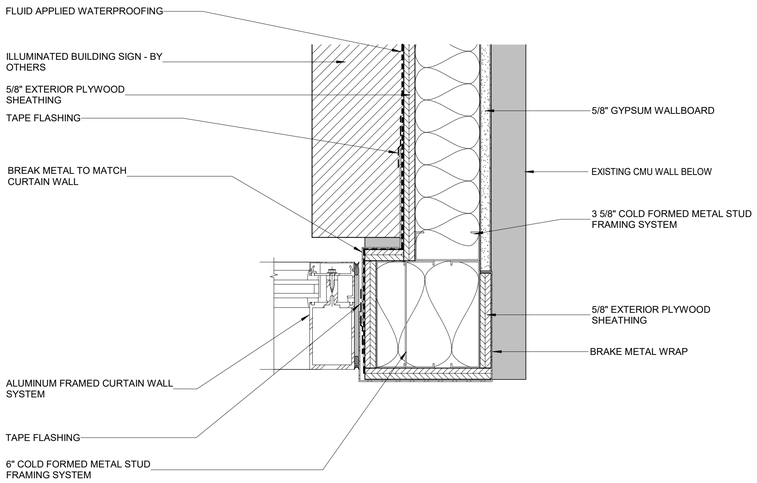
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
NEW REFLECTED CEILING PLAN

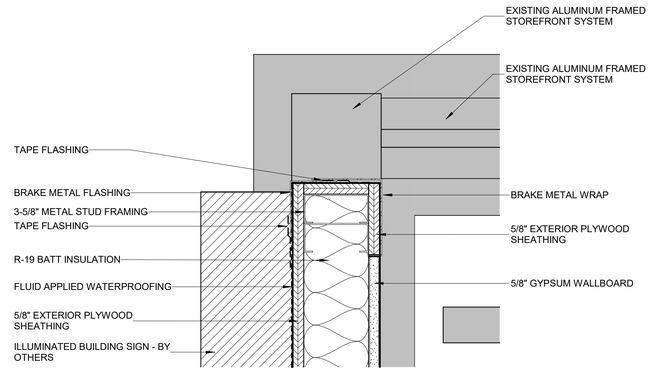
SHEET NUMBER:
A1.10



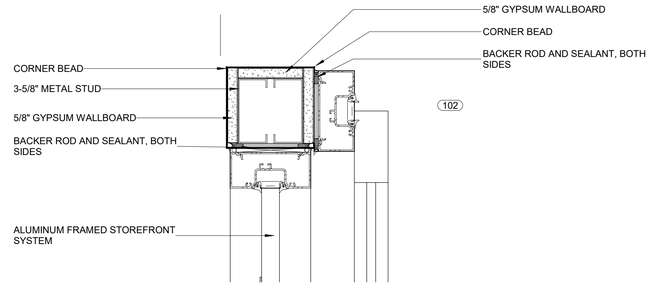
4 CURTAIN WALL OUTSIDE CORNER MULLION DETAIL
3" = 1'-0"



1 Detail 0
3" = 1'-0"



2 Detail 1
3" = 1'-0"



3 NEW FIRST FLOOR - Callout 1
3" = 1'-0"

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101 NORTH 2ND STREET
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No.	Description	Date

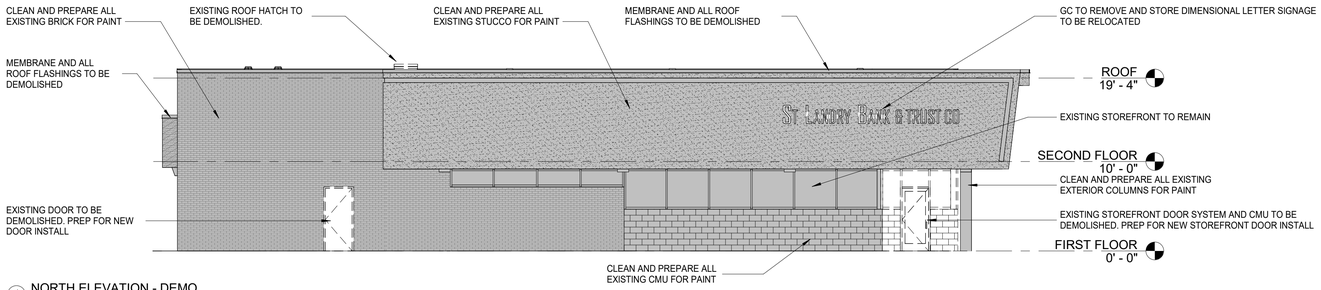
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PHASE: 100% CD
DATE: 02/16/2026

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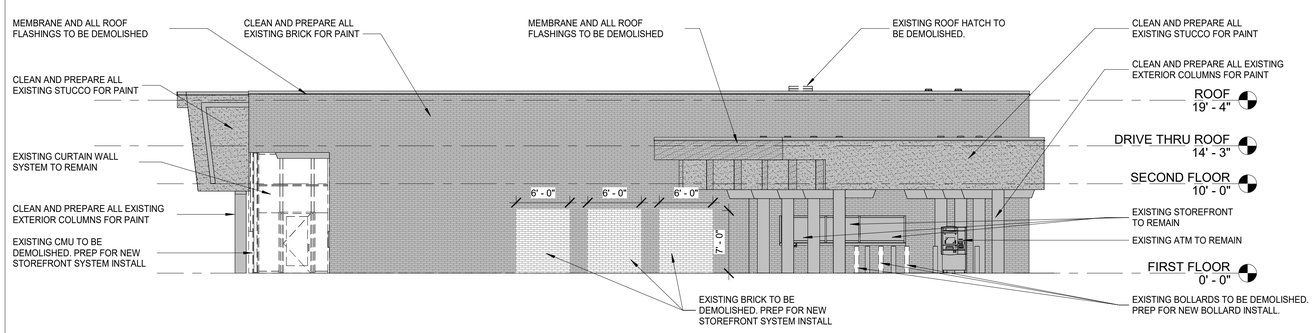
PLAN DETAILS

SHEET NUMBER:

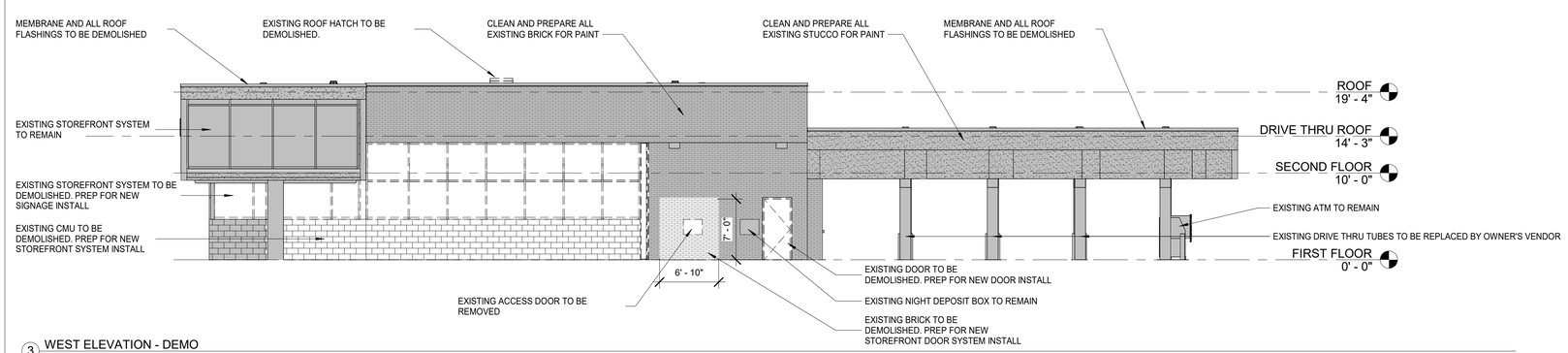
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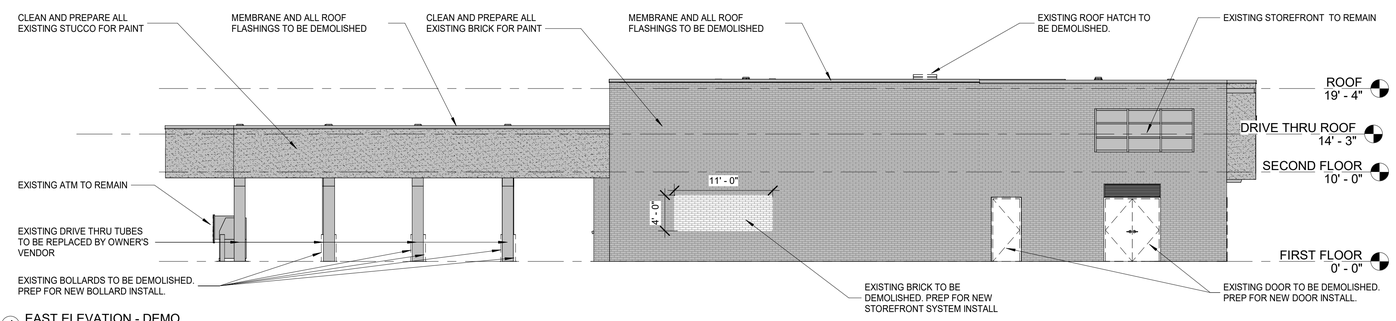
1 NORTH ELEVATION - DEMO
1/8" = 1'-0"



2 SOUTH ELEVATION - DEMO
1/8" = 1'-0"



3 WEST ELEVATION - DEMO
1/8" = 1'-0"



4 EAST ELEVATION - DEMO
1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND

BASIS OF DESIGN
EXISTING STUCCO TO REMAIN.
PAINT: PT-1 - AGUA FRIA SW-9053

BASIS OF DESIGN
EXISTING CMU TO REMAIN.
PAINT: PT-2 - WINTER WALK SW-9628

BASIS OF DESIGN
EXISTING STRUCTURE TO REMAIN.
PAINT: PT-3 - IRON ORE SW-7069

BASIS OF DESIGN
EXISTING BRICK TO REMAIN.
PAINT: PT-4 FRANK BLUE SW-6967

NOTE:

GC TO PAINT 6' x 6' MOCK UP SWATCHES OF PAINT SELECTIONS FOR OWNERS PRIOR TO ORDERING ALL PAINT MATERIALS.

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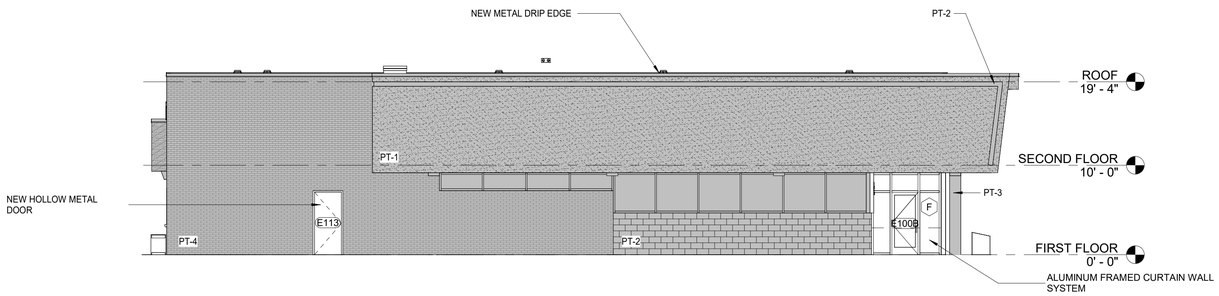
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No.	Description	Date

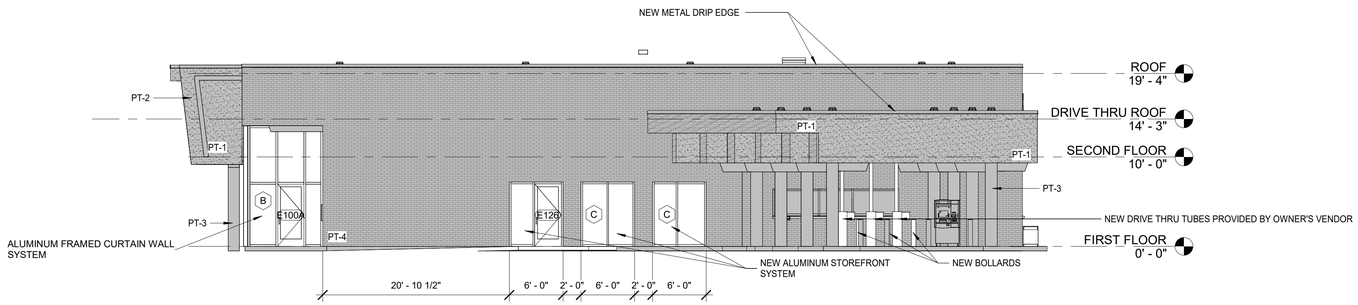
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
DEMO EXTERIOR ELEVATIONS

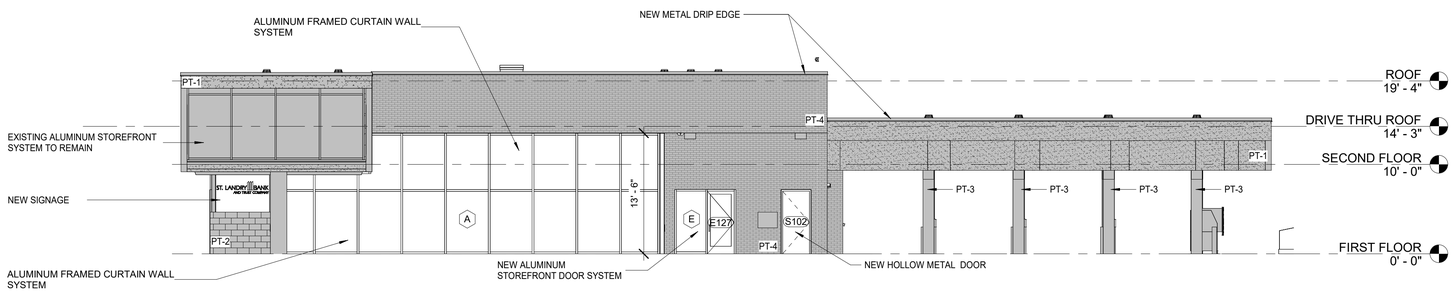
SHEET NUMBER:
A2.1



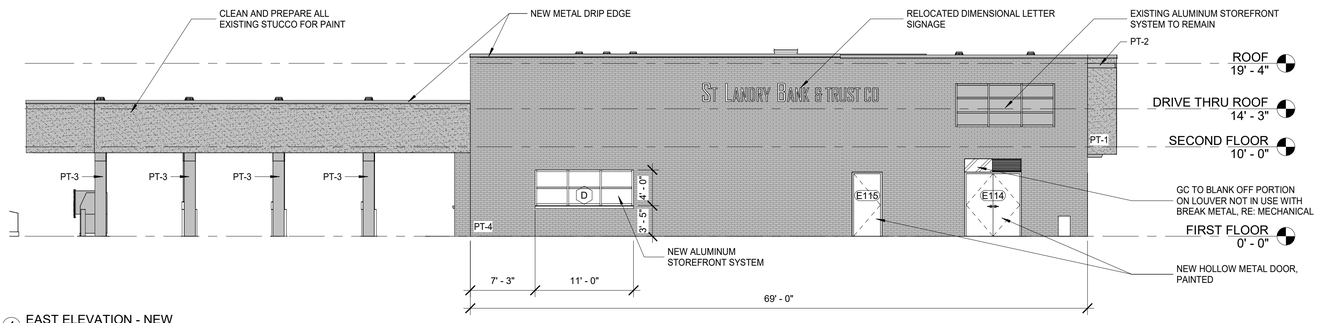
1 NORTH ELEVATION - NEW
1/8" = 1'-0"



2 SOUTH ELEVATION - NEW
1/8" = 1'-0"



3 WEST ELEVATION NEW
1/8" = 1'-0"



4 EAST ELEVATION - NEW
1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND

BASIS OF DESIGN
EXISTING STUCCO TO REMAIN.
PAINT: PT-1 - AGUA FRIA SW-9053

BASIS OF DESIGN
EXISTING CMU TO REMAIN.
PAINT: PT-2 - WINTER WALK SW-9628

BASIS OF DESIGN
EXISTING STRUCTURE TO REMAIN.
PAINT: PT-3 - IRON ORE SW-7069

BASIS OF DESIGN
EXISTING BRICK TO REMAIN.
PAINT: PT-4 FRANK BLUE SW-6967

NOTE:

GC TO PAINT 6' x 6' MOCK UP SWATCHES OF PAINT SELECTIONS FOR OWNERS PRIOR TO ORDERING ALL PAINT MATERIALS.

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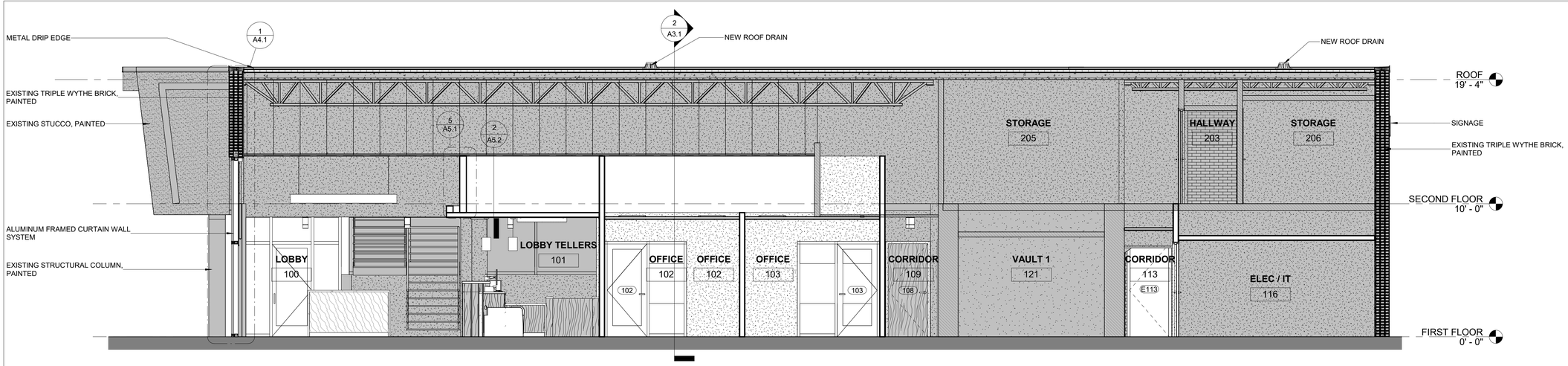
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No.	Description	Date

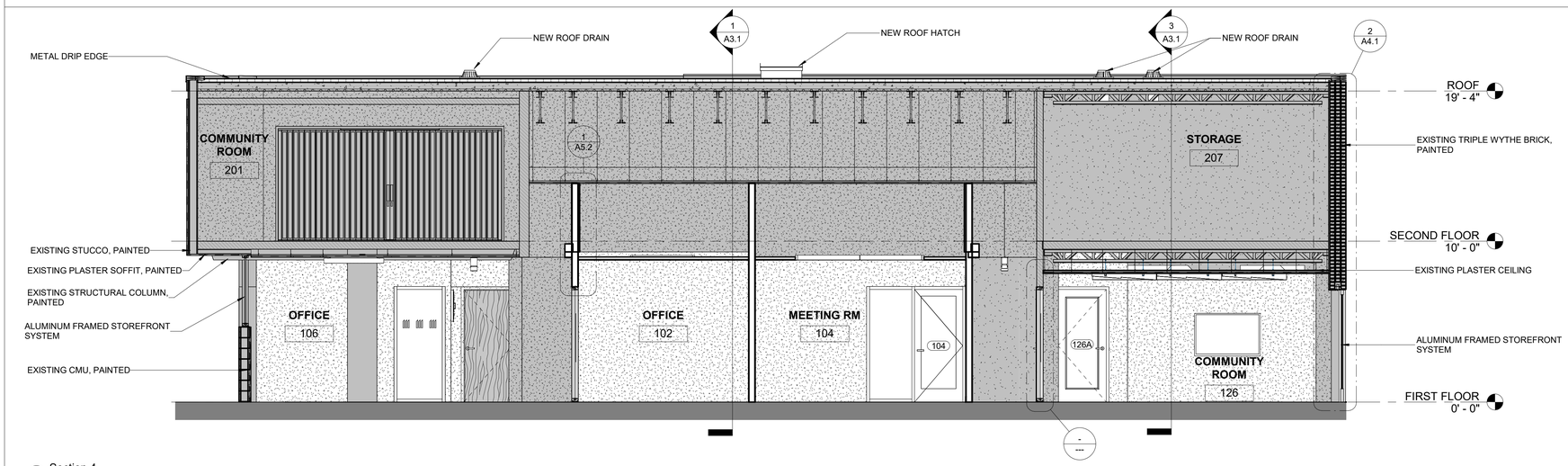
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PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
EXTERIOR ELEVATIONS - NEW

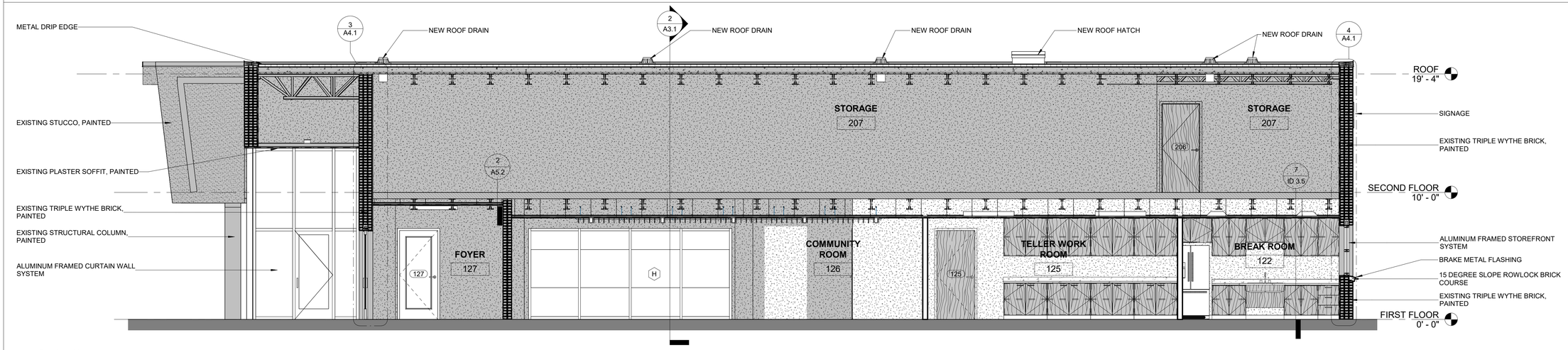
SHEET NUMBER:
A2.2



1 Section 3
1/4" = 1'-0"



2 Section 4
1/4" = 1'-0"



3 Section 10
1/4" = 1'-0"

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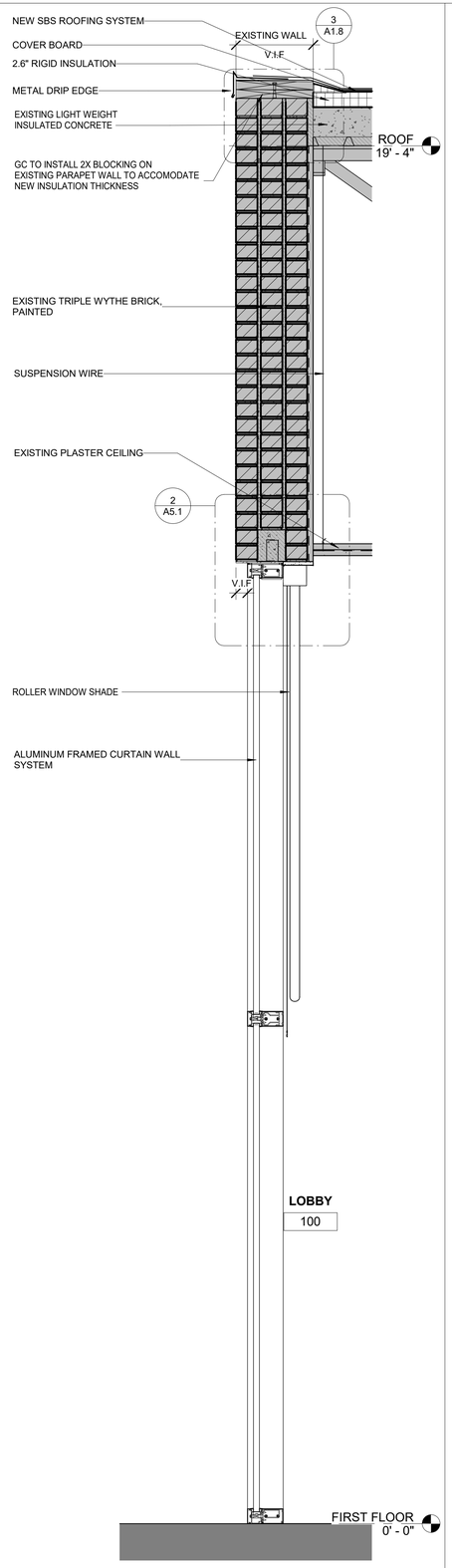
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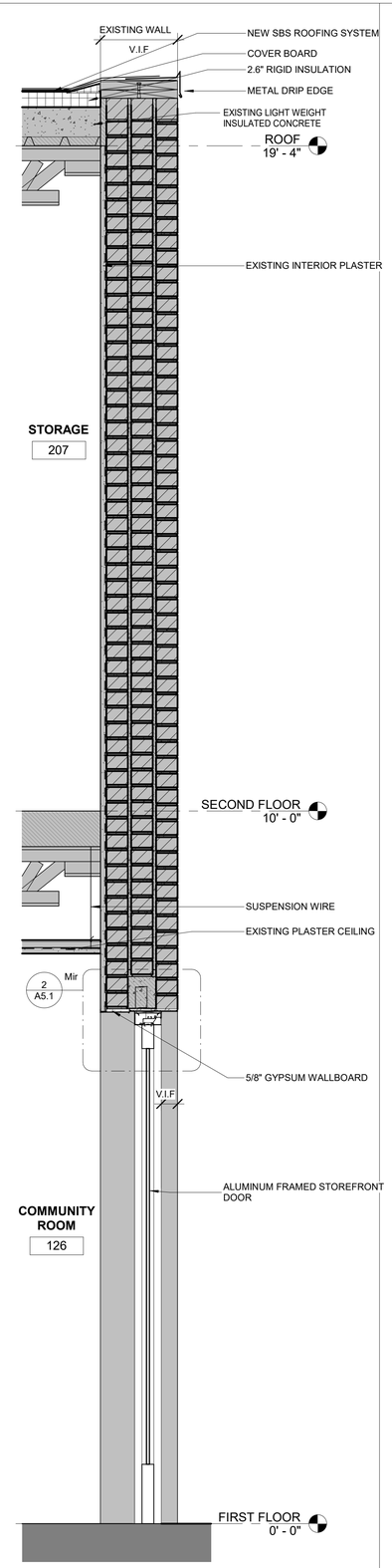
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PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
BUILDING SECTIONS

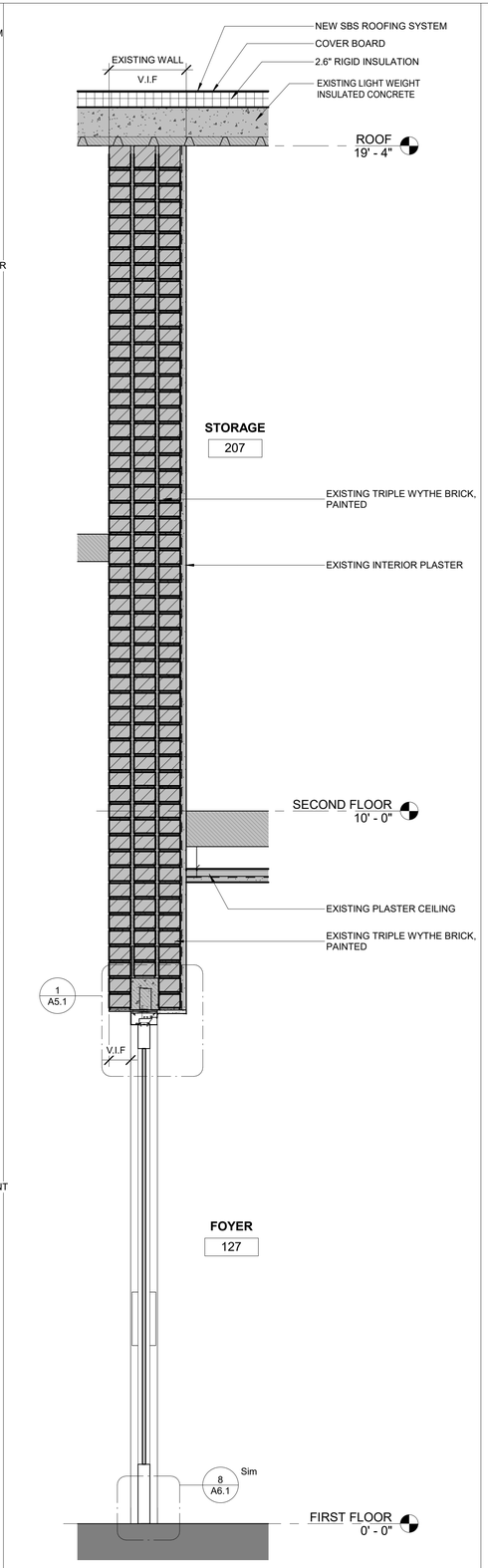
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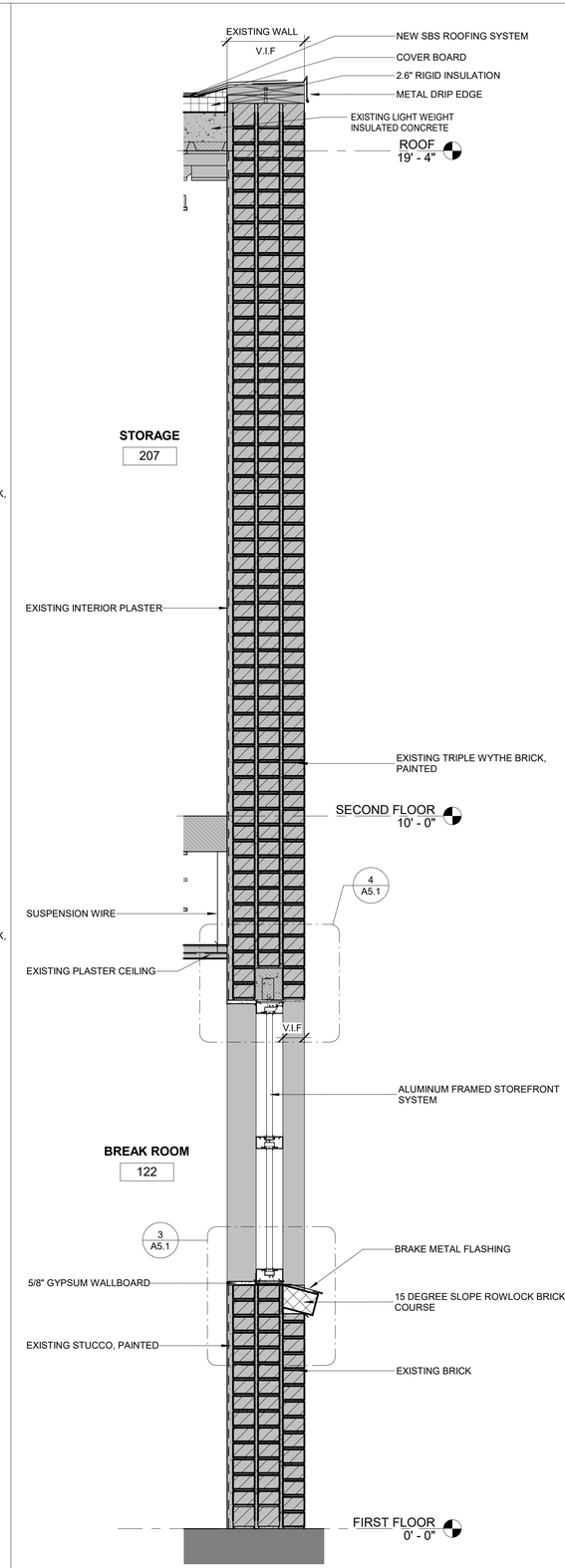
1 STOREFRONT @ LOBBY
1" = 1'-0"



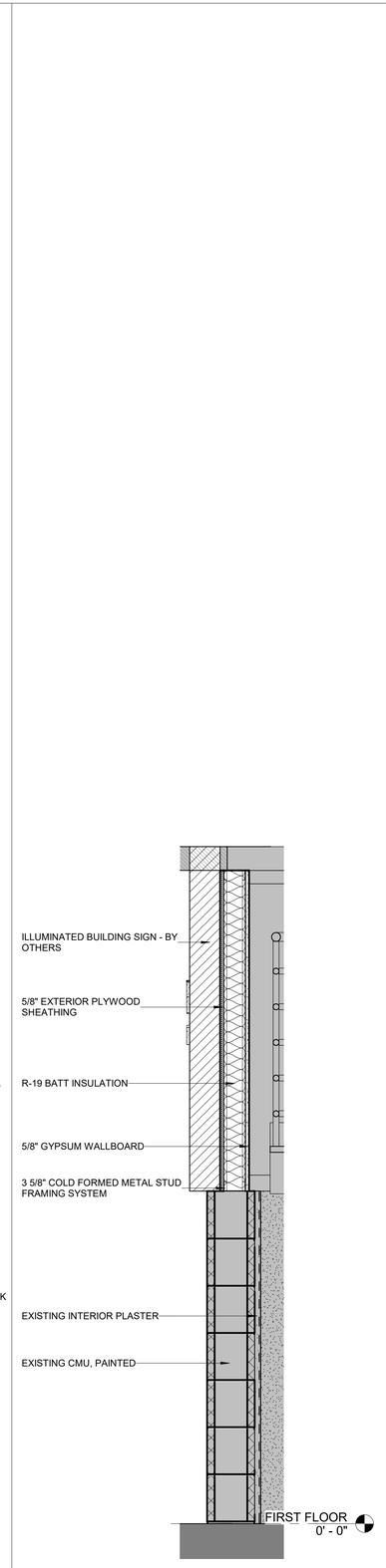
2 STOREFRONT @ COMMUNITY ROOM
1" = 1'-0"



3 STOREFRONT DOOR @ FOYER
1" = 1'-0"



4 STOREFRONT WINDOW @ TRIPLE WYTHE BRICK
1" = 1'-0"



5 BUILDING SIGN @ LOBBY
1" = 1'-0"

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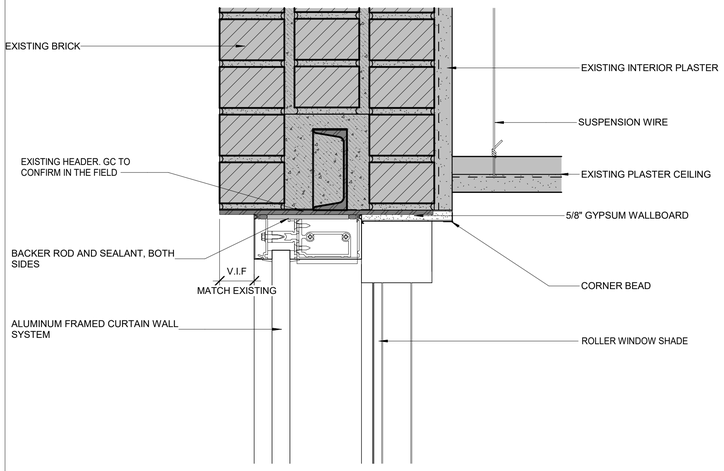
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
WALL SECTIONS

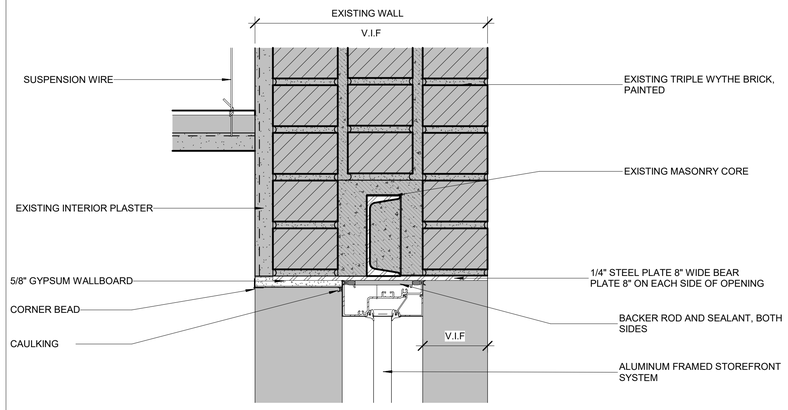
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NOTE:

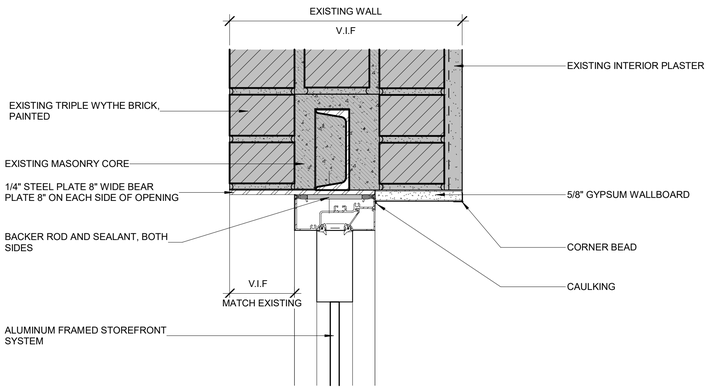
GC TO CONFIRM EXISTING WALL ASSEMBLY. IF GC DETERMINES THE EXISTING WALL ASSEMBLY DOES NOT MATCH ARCHITECTS DETAILS, GC IS TO INFORM ARCHITECT IMMEDIATELY.



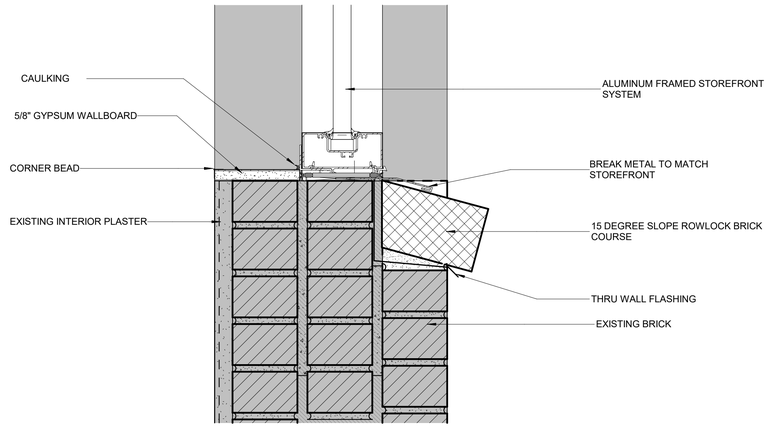
2 STOREFRONT HEAD @ EXISTING WALL
3" = 1'-0"



4 STOREFRONT WINDOW HEAD @ TRIPLE WYTHE BRICK
3" = 1'-0"

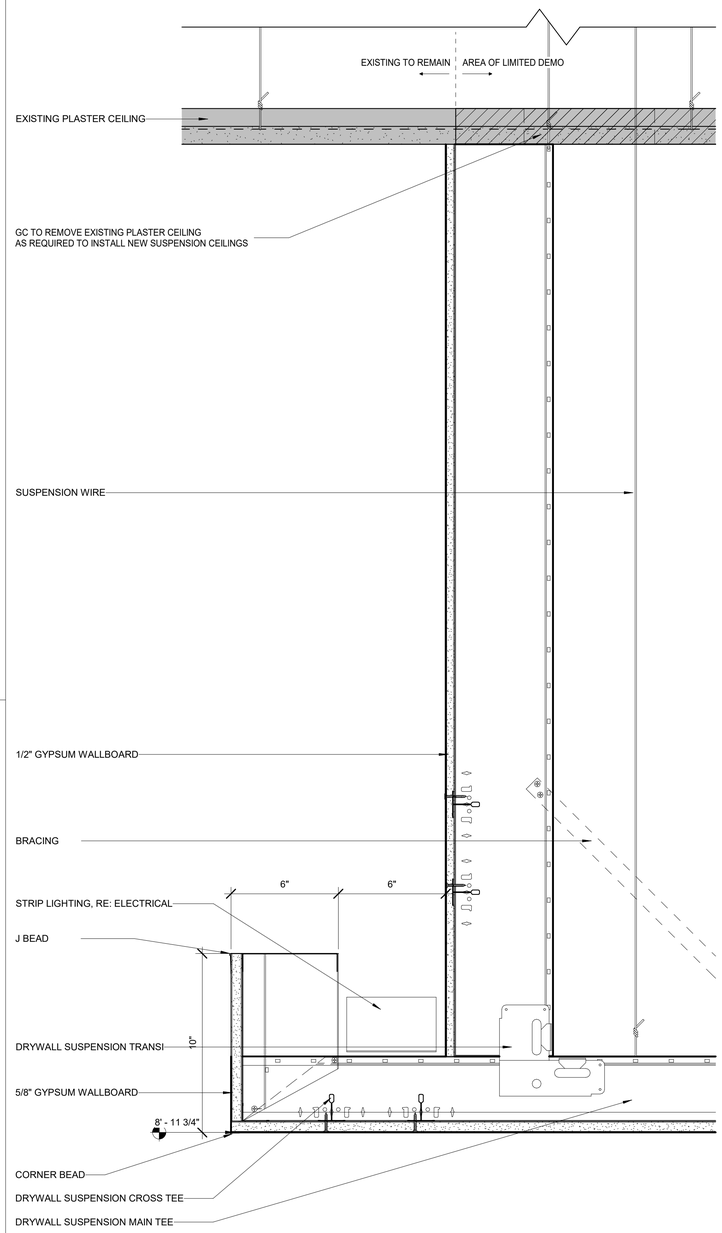


1 STOREFRONT DOOR HEAD @ EXISTING WALL
3" = 1'-0"



3 STOREFRONT WINDOW SILL @ TRIPLE WYTHE BRICK
3" = 1'-0"

BASIS OF DESIGN:
USG DRYWALL SUSPENSION SYSTEM



5 COVE LIGHT @ LOBBY TELLERS
3" = 1'-0"

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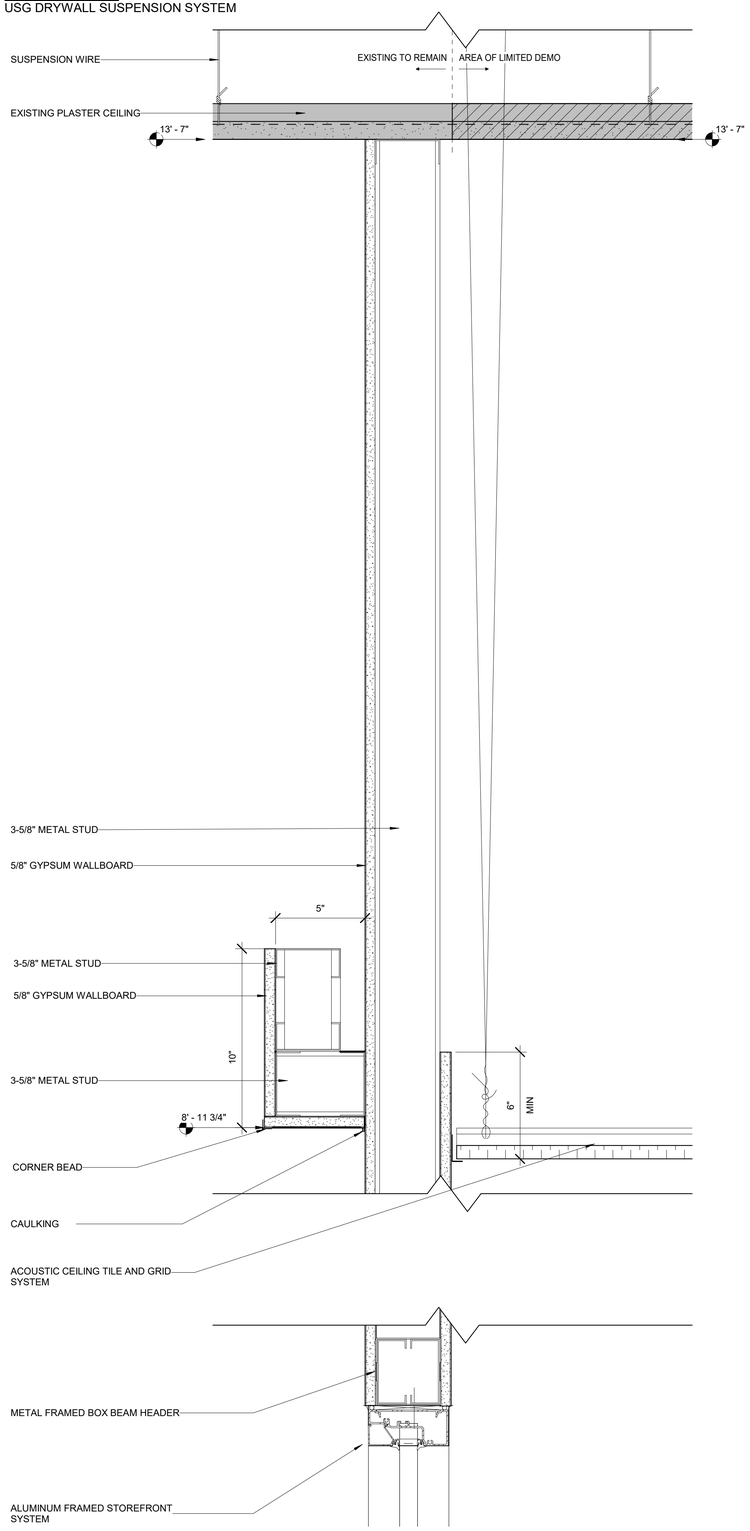
No.	Description	Date

PROJECT NUMBER: 2025-009
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DATE: 02/16/2026

SHEET TITLE:
SECTION DETAILS

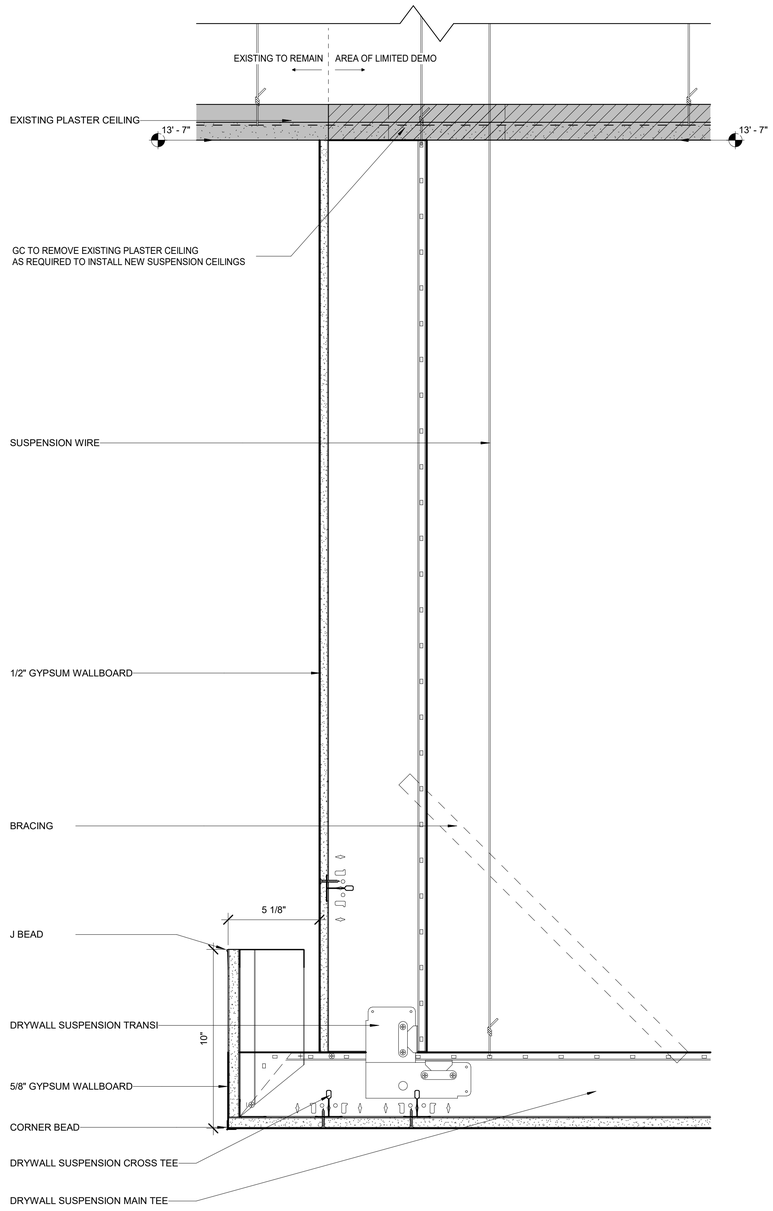
SHEET NUMBER:
A5.1

BASIS OF DESIGN:
USG DRYWALL SUSPENSION SYSTEM



1 COVE @ OFFICE
3" = 1'-0"

BASIS OF DESIGN:
USG DRYWALL SUSPENSION SYSTEM



2 COVE @ LOBBY TELLERS
3" = 1'-0"

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EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
SECTION DETAILS

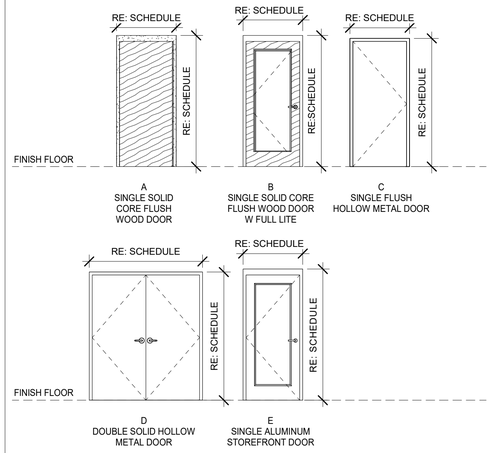
SHEET NUMBER:
A5.2

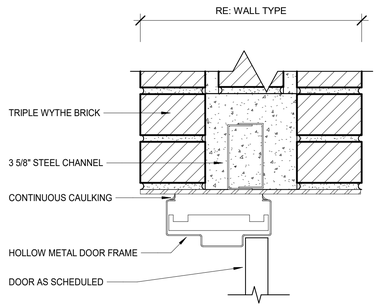
Door Schedule

Number	Type	Width	Height	Door Material	Door Finish	Frame Material	Frame Finish	Fire Rating	Head	Jamb	Sill	Comments
102	B	3' - 0"	7' - 0"	WD		ALUM	ALUM		9/A6.1	10/A6.1	11/A6.1	
103	B	3' - 0"	7' - 0"	WD		ALUM	ALUM		9/A6.1	10/A6.1	11/A6.1	
104	J	3' - 0"	7' - 0"	WD		ALUM	ALUM		9/A6.1	10/A6.1	11/A6.1	
107	B	3' - 0"	7' - 0"	WD		ALUM	ALUM		9/A6.1	10/A6.1	11/A6.1	
108	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
109	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	7
110	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	7
111	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
112	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
116	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	7
117	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
118	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
120	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
122	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	7
125	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	7
126A	B	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	
126B	B	3' - 0"	7' - 0"	WD		HM	PT		4/A6.1	3/A6.1	5/A6.1	7
127	B	3' - 0"	7' - 0"	WD		HM	PT		6/A6.1	6/A6.1	5/A6.1	7
128	A	3' - 0"	7' - 0"	WD		HM	PT		6/A6.1	6/A6.1	5/A6.1	7
E100A	E	3' - 0"	7' - 0"	WD		ALUM	ALUM		8/A6.1	8/A6.1	8/A6.1	7, 8
E100B	E	3' - 0"	7' - 0"	WD		ALUM	ALUM		8/A6.1	8/A6.1	8/A6.1	8
E113	C	3' - 0"	7' - 0"	HM		HM	PT		1/A6.1	2/A6.1	5/A6.1	8
E114	D	6' - 0"	7' - 0"	HM		HM	PT		1/A6.1	2/A6.1	5/A6.1	7
E115	C	3' - 0"	7' - 0"	HM		HM	PT		1/A6.1	2/A6.1	5/A6.1	7
E126	C	3' - 0"	7' - 0"	WD		ALUM	ALUM		1/A5.1	8/A6.1	8/A6.1	8
E127	E	3' - 0"	7' - 0"	WD		ALUM	ALUM		1/A5.1	8/A6.1	8/A6.1	7, 8
S101	A	3' - 0"	7' - 0"	WD		HM	PT		7/A6.1	6/A6.1	5/A6.1	8
S102	C	3' - 0"	7' - 0"	HM		HM	PT		1/A6.1	2/A6.1	5/A6.1	8

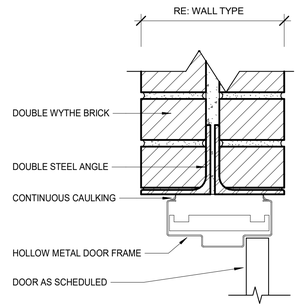
NOTES:

1. WD = WOOD
2. PT = PAINT
3. HM = HM
4. CARD READER
5. WIDE ANGLE DOOR VIEWER TO BE BY SECURITY PRODUCTS INCORPORATED - DS-2000-ALS. REFER TO DOOR SCHEDULE FOR LOCATIONS.
6. PL = PLASTIC LAMINATE
7. GC TO PROVIDE ELECTRIC STRIKES
8. PANIC HARDWARE

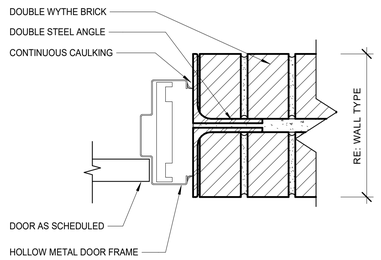




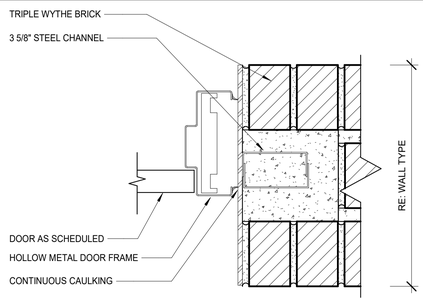
1 HM DOOR - HEAD @ TRIPLE WYTHE BRICK
3" = 1'-0"



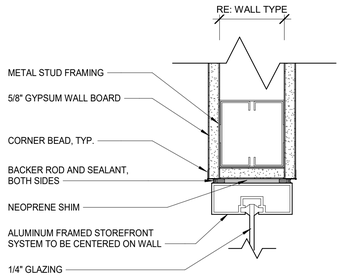
4 HM DOOR - HEAD @ DOUBLE WYTHE BRICK
3" = 1'-0"



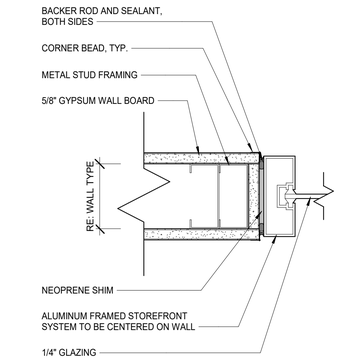
3 HM DOOR - JAMB @ DOUBLE WYTHE BRICK
3" = 1'-0"



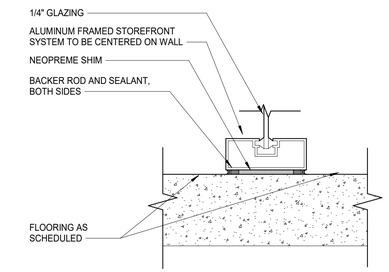
2 HM DOOR - JAMB @ TRIPLE WYTHE BRICK
3" = 1'-0"



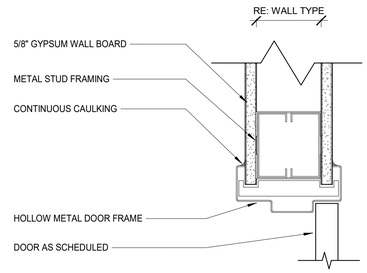
9 INTERIOR STOREFRONT - HEAD
3" = 1'-0"



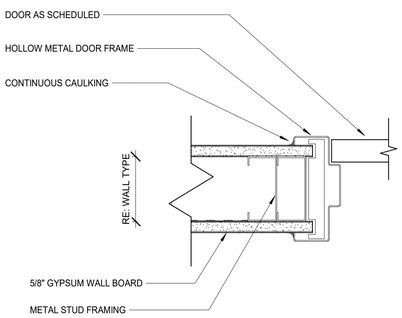
10 INTERIOR STOREFRONT - JAMB
3" = 1'-0"



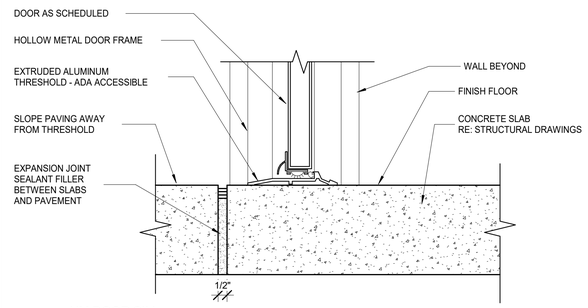
11 STOREFRONT - SILL
3" = 1'-0"



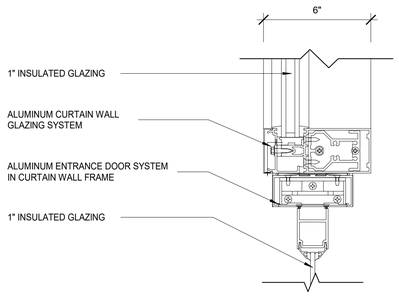
7 INTERIOR DOOR - HEAD
3" = 1'-0"



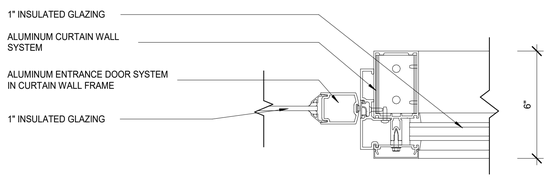
6 INTERIOR DOOR - JAMB
3" = 1'-0"



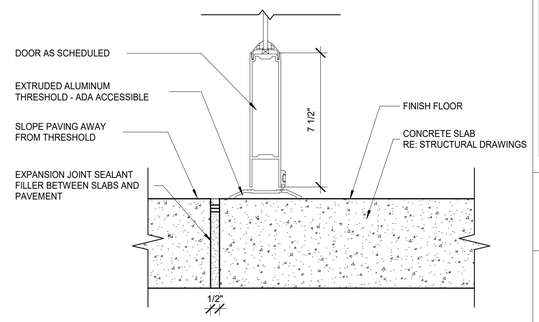
5 HM DOOR SILL
3" = 1'-0"



EXTERIOR CURTAIN WALL DOOR - HEAD



EXTERIOR CURTAIN WALL DOOR - JAMB



EXTERIOR CURTAIN WALL DOOR - SILL

8 EXTERIOR CURTAIN WALL DOOR DETAILS
3" = 1'-0"

PHILLIP E. KERN
REG. NO. 15615
STATE OF LOUISIANA
REGISTERED ARCHITECT

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St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
DOOR SCHEDULE

SHEET NUMBER:
A6.1

GLAZING GENERAL NOTE:

1. ALL STOREFRONT AND CURTAIN WALL FRAMES TO BE CLEAR ANODIZED ALUMINUM
2. CONTRACTOR TO COORDINATE IMPACT RATED GLAZING REQUIREMENTS WITH THE MANUFACTURER PRIOR TO BIDDING.

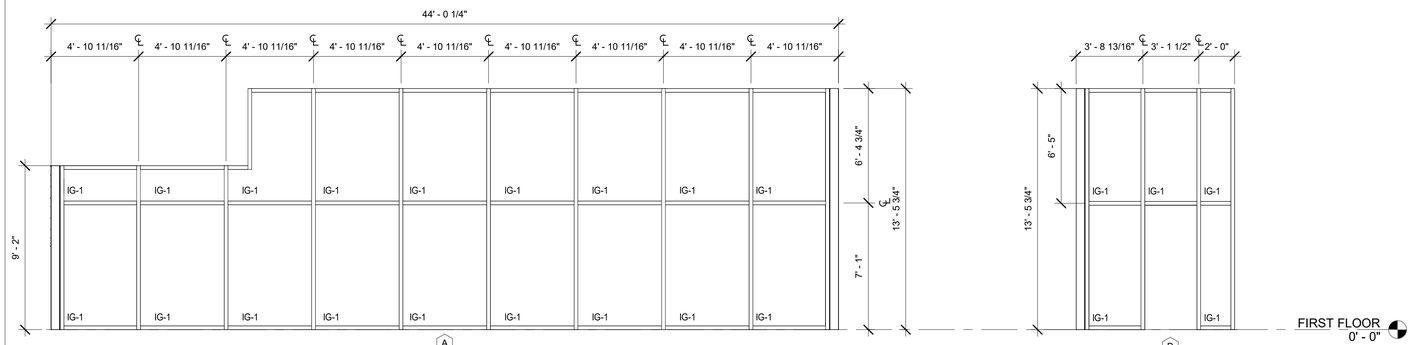
GLAZING TYPES:

IG-1 EXTERIOR INSULATED GLAZING
IG-2 EXTERIOR INSULATED SPANDREL GLAZING

GL-1 INTERIOR FULLY TEMPERED GLAZING

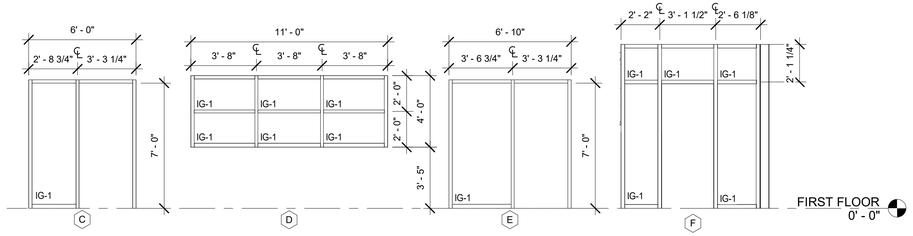
EXTERIOR CURTAIN WALL:

1/4" = 1' - 0"



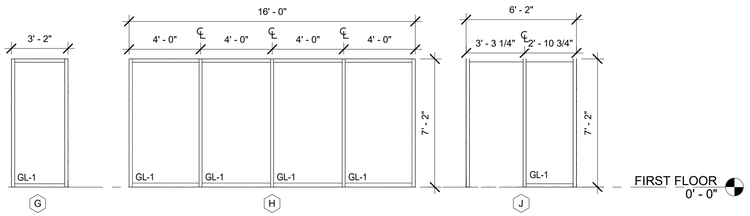
EXTERIOR STOREFRONT:

1/4" = 1' - 0"



INTERIOR STOREFRONT:

1/4" = 1' - 0"



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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
WINDOW SCHEDULE

SHEET NUMBER:
A6.2

ST. LANDRY BANK - EUNICE RENOVATION

100% CONSTRUCTION DOCUMENTS

VENDOR MANAGEMENT SHEET LIST	
VM0.0	COVER SHEET
VM0.1	VM - SECURITY
VM0.2	VM - EQUIPMENT
VM0.3	VM - MISC.

VENDOR CONTACT INFORMATION
CONTACTS
Bank Equipment:
Bank Tech South
Lee Daigle
800-676-0631
leanderdaigle@bank-tecsouth.com
Security Cameras:
Lanclose Electric
Jason Lanclose
(337) 948-3628
lancloselectronics@gmail.com
Access Controls:
Lanclose Electric
Jason Lanclose
(337) 948-3628
lancloselectronics@gmail.com
Intrusion:
Bank Tech South
Lee Daigle
800-676-0631
leanderdaigle@bank-tecsouth.com
Furniture:
Frost-Barber
Anna Katherine Dazzio
akdazzio@frost-barber.com
Wayfinding / ADA Signage
ASI Signage Innovations
Bridget Ofstad
bridget.ofstad@asisignage.com
Window Coverings:
Davis Draperies
(504) 734-9522



RENDERING

GENERAL CONTRACTOR'S ROLE IN VENDOR MANAGEMENT

VM or Vendor Management drawing sheets are included in these documents in an effort to clarify for the general contractor the scope of FF&E (furniture, fixtures & equipment) that is being purchased by the Owner outside of the construction contract. These items are not to be included in the general contractors bid; however, the general contractor should plan to coordinate scheduling of installation of this equipment with the vendor contacts that are provided. Costs shall be included in the general contractors' bid for time that is to be spent coordinating with and scheduling these vendors.

GENERAL NOTES:

1) GC TO COORDINATE ALL NECESSARY ROUGH OPENINGS, POWER/DATA REQUIREMNTS, INSTALLATION REQUIREMENTS & INSTALLATION SCHEDULING WITH ASSOCIATED VENDORS. MAKE ARCHITECT AWARE OF ANY DISCREPANCIES THAT MAY OCCUR WITHIN THE VM PLAN SHEETS.

2) GC TO CONFIRM ALL EQUIPMENT/FIXTURE SIZES WITH MILLWORK SUBCONTRACTOR PRIOR TO PRODUCING SHOP DRAWINGS.

3) WHEN REUSING EXISTING EQUIPMENT/FIXTURES, COORDINATE WITH OWNER TO ACCESS ANY MEASUREMENTS OR POWER/DATA/INSTALLATION REQUIREMENTS NEEDED.

4) PROTECT EXISTING EQUIPMENT/FIXTURES TO BE REUSED WHILE DEMOLITION AND CONSTRUCTION IS UNDERWAY.

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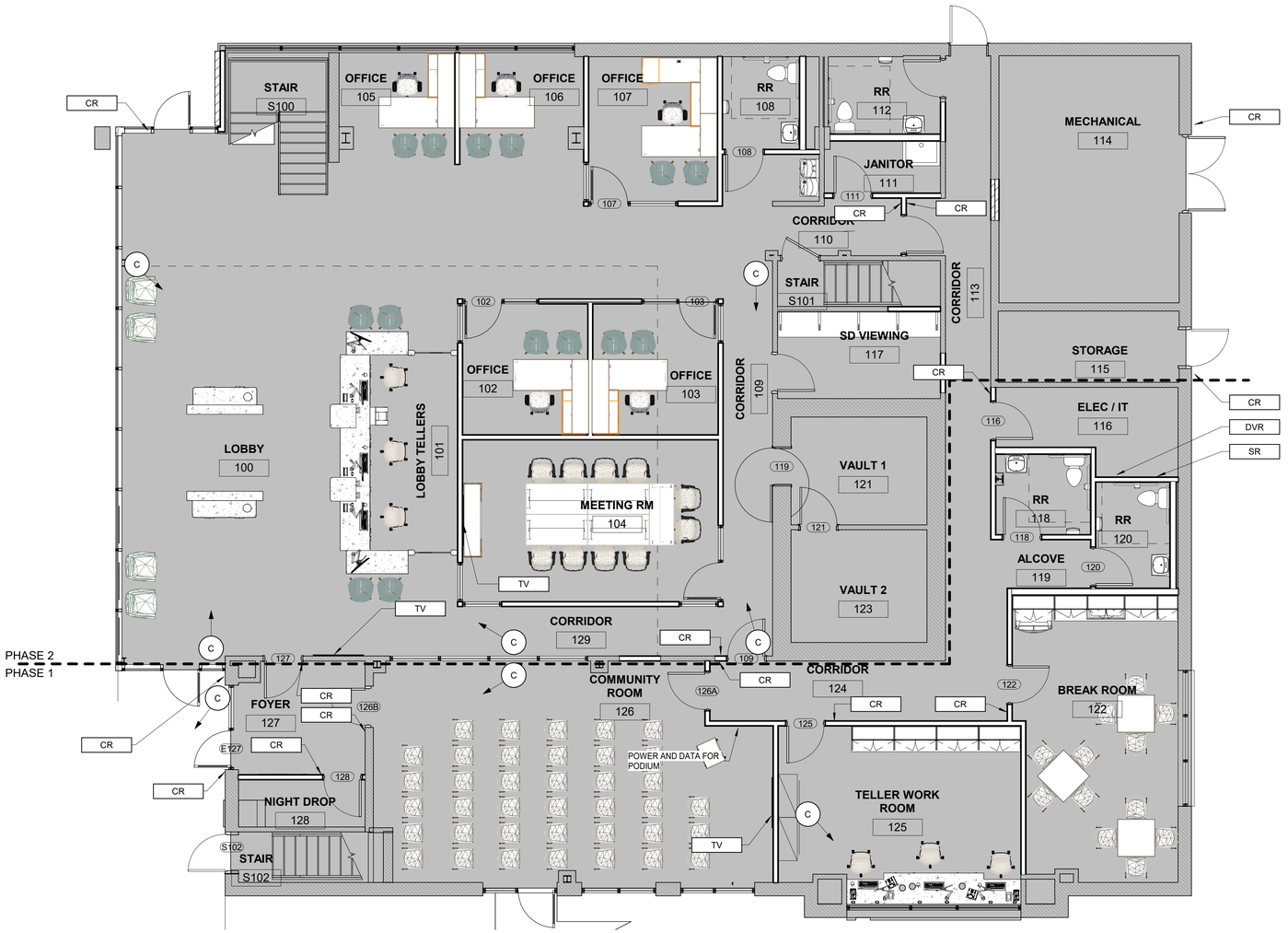
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101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
VM0.0



1 VM SECURITY
3/16" = 1'-0"

GENERAL NOTES:

1) GC TO COORDINATE ALL NECESSARY ROUGH OPENINGS, POWER/DATA REQUIREMNTS, INSTALLATION REQUIREMENTS & INSTALLATION SCHEDULING WITH ASSOCIATED VENDORS. MAKE ARCHITECT AWARE OF ANY DISCREPANCIES THAT MAY OCCUR WITHIN THE VM PLAN SHEETS.

2) GC TO CONFIRM ALL EQUIPMENT/FIXTURE SIZES WITH MILLWORK SUBCONTRACTOR PRIOR TO PRODUCING SHOP DRAWINGS.

3) WHEN REUSING EXISTING EQUIPMENT/FIXTURES, COORDINATE WITH OWNER TO ACCESS ANY MEASUREMENTS OR POWER/DATA/INSTALLATION REQUIREMENTS NEEDED.

4) PROTECT EXISTING EQUIPMENT/FIXTURES TO BE REUSED WHILE DEMOLITION AND CONSTRUCTION IS UNDERWAY.

VENDOR MANAGEMENT - SECURITY								
Count	Abrv.	Name	Notes	Size	OWNER PROVIDED	CONTRACTOR PROVIDED	OWNER INSTALL	CONTRACTOR INSTALL
8	C	EXISTING SECURITY CAMERA			X		X	
15	CR	CARD READER			X		X	
1	DVR	SECURITY DVR			X		X	
1	SR	RELOCATED SERVER			X		X	
3	TV	WALL MOUNTED TV			X		X	

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St. Landry Bank

EUNICE RENOVATION

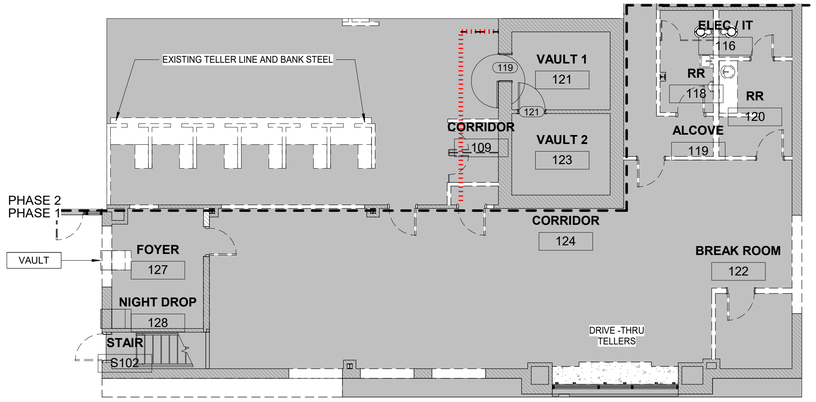
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VM - SECURITY

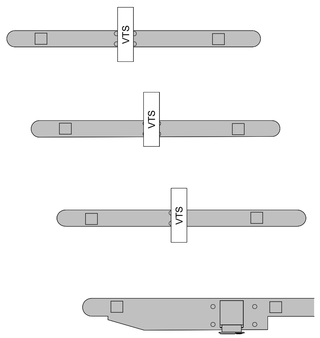
SHEET NUMBER:
VM0.1



3 TEMP BRANCH LAYOUT -DEMO
1/8" = 1'-0"



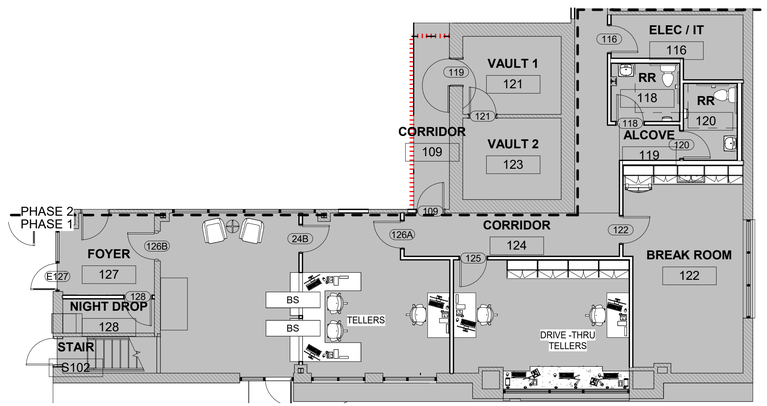
EXISTING THRU WALL VAULT TO BE REMOVED AND DISPOSED OF BY BANK EQUIPMENT VENDOR



TYPICAL LAYOUT PER EXISTING TELLER STATION



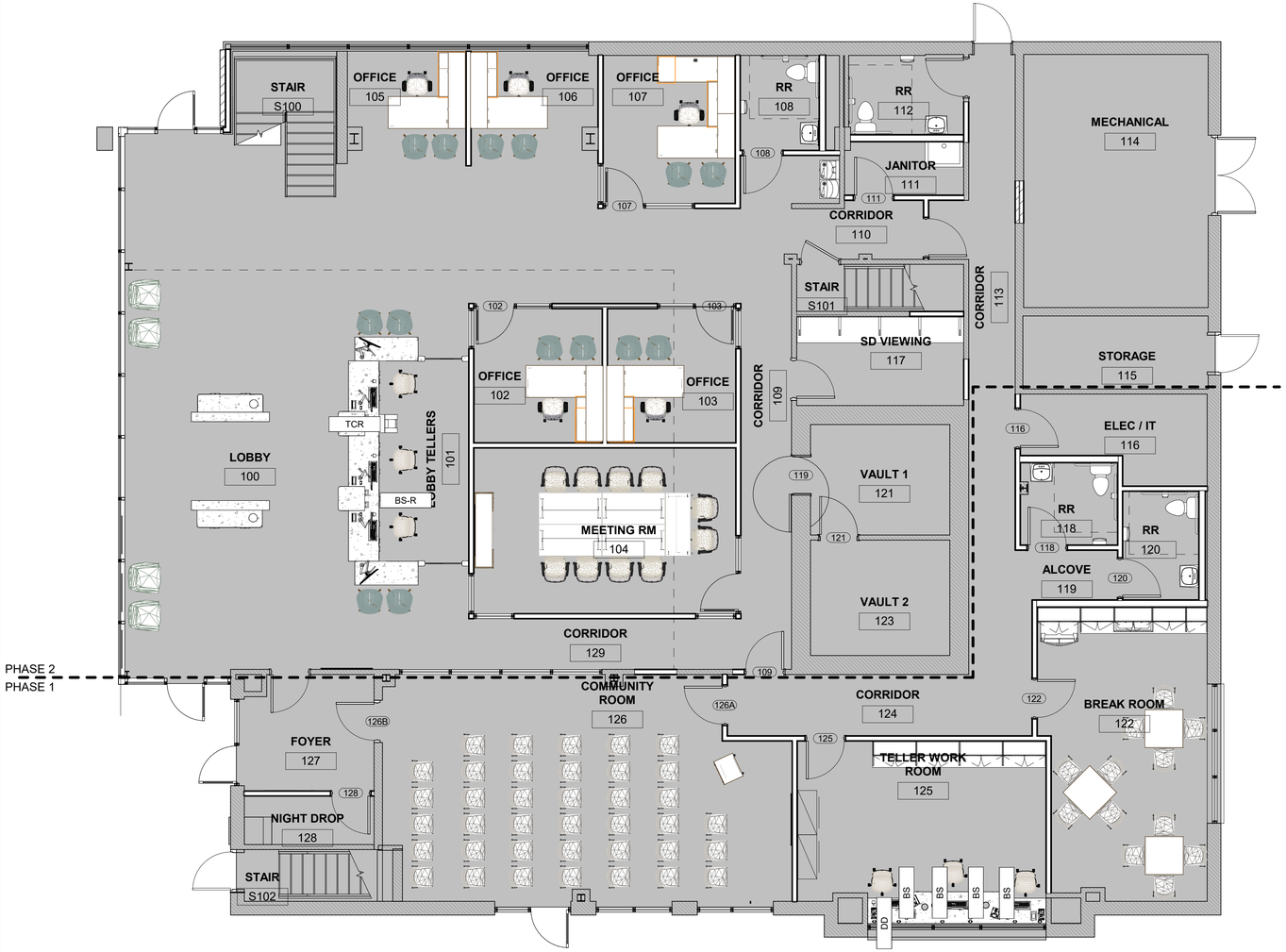
(2) PEDESTALS TO BE RELOCATED AND USED IN TEMPORARY BRANCH



2 TEMP BRANCH LAYOUT
1/8" = 1'-0"

VENDOR MANAGEMENT - TEMPORARY BANK EQUIPMENT

Count	ABREV	Name	Notes	Size	OWNER PROVIDED	CONTRACTOR PROVIDED	OWNER INSTALL	CONTRACTOR INSTALL
2	BS	BANK STEEL	EXISTING TO BE RELOCATED FROM LOBBY TEMPORARILY		X		X	
1	VAULT	THRU WALL VAULT	TO BE REMOVED AND DISPOSED OF	2'W x 5'H x 2'D	X		X	
3	VTS	EXISTING VACUUM TUBE SYSTEM	TO BE REMOVED AND DISPOSED OF		X		X	



1 VM EQUIPMENT
3/16" = 1'-0"

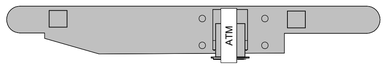
VENDOR MANAGEMENT - BANK EQUIPMENT

Count	ABREV	Name	Notes	Size	OWNER PROVIDED	CONTRACTOR PROVIDED	OWNER INSTALL	CONTRACTOR INSTALL
1	ATM	EXISTING ATM	NO WORK					
4	BS	BANK STEEL	NO WORK, EXISTING TO BE REUSED		X		X	
1	BS-R	BANK STEEL - RELOCATED	EXISTING TO BE RELOCATED FROM TEMP BRANCH AND REUSED		X		X	
1	DD	EXISTING DEALER DRAWER	NO WORK					
1	TCR	TELLER CASH RECYCLER	AST 7000 NT5		X		X	
3	VTS	VACCUUM TUBE SYSTEM	AMERICAN VAULT W/ VIDEO		X		X	









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STATE OF LOUISIANA
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St. Landry Bank

EUNICE RENOVATION

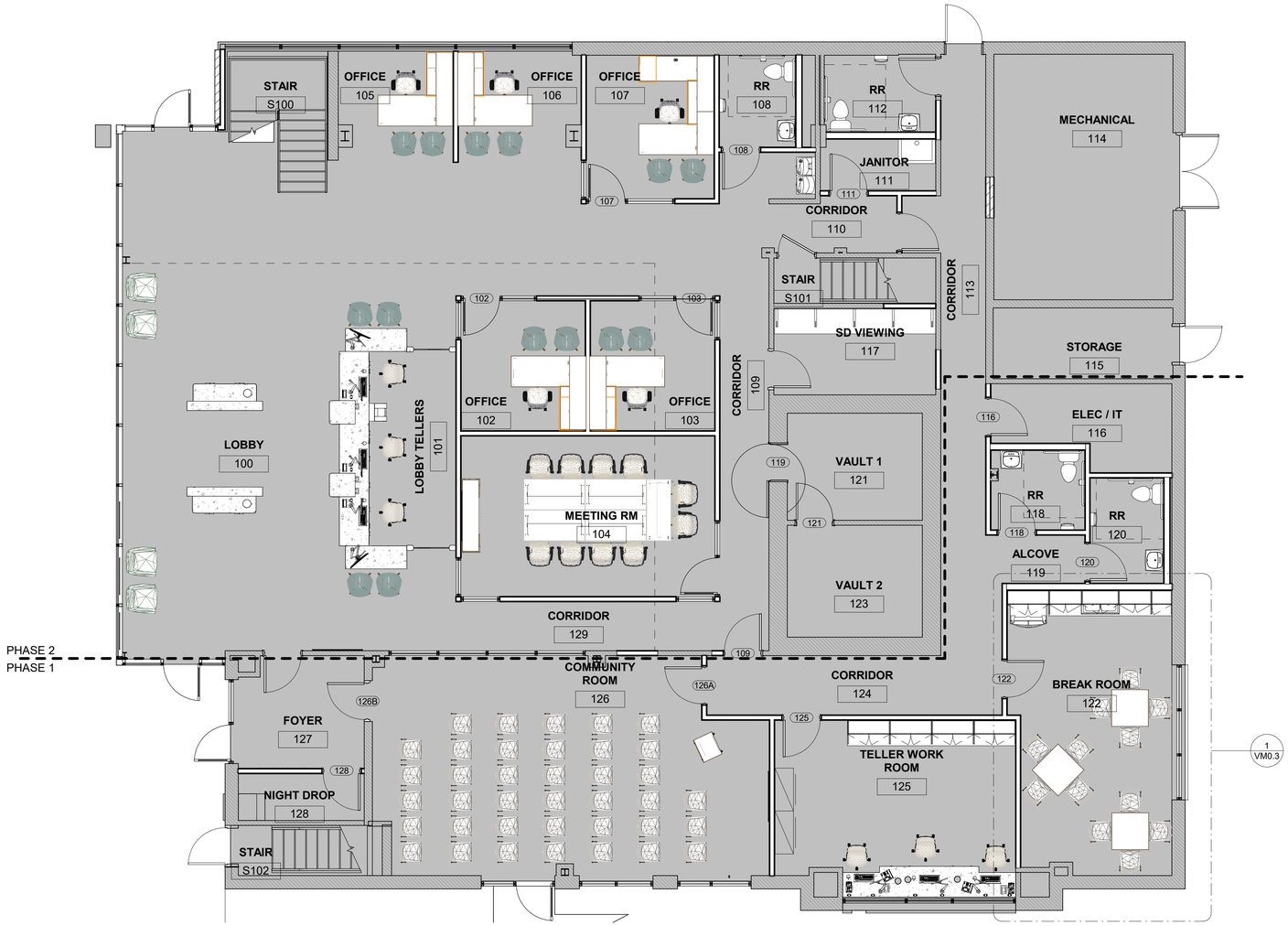
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

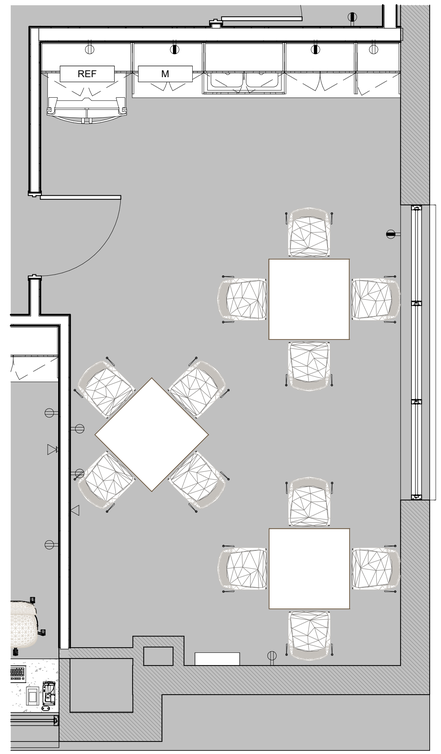
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
VM - EQUIPMENT

SHEET NUMBER:
VM0.2



2 VM MISCELLANEOUS
3/16" = 1'-0"



1 VM MISCELLANEOUS - Callout 1
3/8" = 1'-0"

GENERAL NOTES:

1) GC TO COORDINATE ALL NECESSARY ROUGH OPENINGS, POWER/DATA REQUIREMNTS, INSTALLATION REQUIREMENTS & INSTALLATION SCHEDULING WITH ASSOCIATED VENDORS. MAKE ARCHITECT AWARE OF ANY DISCREPANCIES THAT MAY OCCUR WITHIN THE VM PLAN SHEETS.

2) GC TO CONFIRM ALL EQUIPMENT/FIXTURE SIZES WITH MILLWORK SUBCONTRACTOR PRIOR TO PRODUCING SHOP DRAWINGS.

3) WHEN REUSING EXISTING EQUIPMENT/FIXTURES, COORDINATE WITH OWNER TO ACCESS ANY MEASUREMENTS OR POWER/DATA/INSTALLATION REQUIREMENTS NEEDED.

4) PROTECT EXISTING EQUIPMENT/FIXTURES TO BE REUSED WHILE DEMOLITION AND CONSTRUCTION IS UNDERWAY.

VM - Miscellaneous Equipment

Count	Abrv.	Name	Notes	Size	OWNER PROVIDED	CONTRACTOR PROVIDED	OWNER INSTALL	CONTRACTOR INSTALL
1	M	MICROWAVE	SAMSUNG 1.9 CU. FT. 900 W. MODEL # MS19DG8500SR	H13.31 IN, W 23.62 IN, D 18.43 IN		X		X
1	REF	REFRIGERATOR	FRIGIDAIRE 36IN. 26CU. MODEL # FRSS2623AS	H 69.875 IN, W 36.125 IN, D 35 IN		X		X



MICROWAVE



REFRIGERATOR

PHILLIP E. KERN
REG. NO. 15815
STATE OF LOUISIANA
REGISTERED ARCHITECT

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kern architects

St. Landry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
VM - MISC.

SHEET NUMBER:
VM0.3

ST. LANDRY BANK

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA 70535

INTERIORS ABBREVIATIONS

A	A	ACRYLIC
	ACT	ACOUSTIC CEILING TILE
	ADJ	ADJUSTABLE
	AFF	ABOVE FINISHED FLOOR
	ALT	ALTERNATE
	ALUM	ALUMINUM
	ANOD	ANODIZED
	APPROX	APPROXIMATE
	ASI	ARCHITECTS SUPPLEMENTAL INFORMATION
B	BD	BOARD
	BLDG	BUILDING
	BO	BOTTOM OF
	BOT	BOTTOM
C	CAB	CABINET
	CFI	CONTRACTOR FURNISHED/INSTALLED
	CG	CORNER GUARD
	CLG	CEILING
	CLO	CLOSET
	CLR	CLEAR
	CM	CENTIMETER
	CO	CASED OPENING
	COL	COLUMN
	CONC	CONCRETE
	CONT	CONTINUOUS
	CSWK	CASEWORK
	CPT	CARPET
D	DEPT	DEPARTMENT
	DF	DOOR FINISH
	DIA	DIAMETER
	DIAG	DIAGONAL
	DIM	DIMENSION
	DN	DOWN
	DW	DISH WASHER
	DWG	DRAWING
E	EA	EACH
	ELEC	ELECTRICAL
	ELEV	ELEVATION
	EQ	EQUAL
	E	EQUIPMENT
	ETR	EXISTING TO REMAIN
	EXH	EXHAUST
	EXP'D	EXPOSED
	EXT	EXTERIOR
F	FD	FLOOR DRAIN
	FEC	FIRE EXTINGUISHER CABINET
	F	FURNITURE
	FFL	FINISH FLOOR LINE
	FIN	FINISH
	FLUOR	FLUORESCENT
	FLR	FLOOR
	FT	FOOT / FEET
	FURR	FURRING
G	GB	GRAB BAR
	GC	GENERAL CONTRACTOR
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	G	GROUT
	GL	GLASS
	GR	GRADE
	GYP	GYPSUM WALL BOARD
H	H/C	HANDICAPPED
	H	HARDWARE
	HT	HEIGHT
	HM	HOLLOW METAL
	HORIZ	HORIZONTAL
	HR	HANDRAIL
	HVAC	HEAT / VENTILATING / AIR CONDITIONING
I	ID	INTERIOR DESIGN
	IN	INCH
	INSUL	INSULATION
	INT	INTERIOR
J	JC	JANITOR'S CLOSET
K	KIT	KITCHEN
	KO	KNOCK-OUT
	KOP	KNOCK-OUT PANEL
L	LAV	LAVATORY
	LH	LEFT HAND
	LKRS	LOCKERS
	L	LIGHTING
	LVT	LUXURY VINYL TILE
	LY	LINEAR YARD
M	MAT'L	MATERIAL
	MAX	MAXIMUM
	MECH	MECHANICAL
	MED	MEDIUM
	MFG	MANUFACTURER
	MIN	MINIMUM
	MISC	MISCELLANEOUS
	MIR	MIRROR
	MD	MOULDING
	M	METER
	MM	MILLIMETER
	MTD	MOUNTED
	MTL	METAL
	MULL	MULLION
	MWK	MILLWORK
N	N	NORTH
	NA	NOT APPLICABLE
	NTS	NOT TO SCALE
	NIS	NOT IN SCOPE
	NIC	NOT IN CONTRACT
O	OC	ON CENTER
	OF	OUTSIDE DIAMETER
	OFI	OWNER FURNISH & INSTALL
	OFCI	OWNER FURNISH, CONTRACTOR INSTALL
	OFVI	OWNER FURNISH, VENDOR INSTALL
	OH	OVERHEAD
	OPG	OPENING
	OPP	OPPOSITE
	OPEN	OPEN TO BEYOND
P	PART	PARTITION
	PCF	PER CUBIC FOOT
	PERF	PERFORATED
	PLAS	PLASTER
	PLF	PER LINEAR FOOT
	PLYWD	PLYWOOD
	PMS	PANTONE
	PREP	PREPARATION
	PT	PAINT
	PTD	PAPER TOWEL DISPENSER
	PUB	PUBLIC
	PL	PLASTIC LAMINATE
Q	QS	QUARTZ SURFACING
	QT	QUARRY TILE
	QTB	QUARRY TILE BASE
	QTY	QUANTITY
R	RA	RETURN AIR
	R	RADIUS
	RB	RUBBER BASE
	RCP	REFLECTED CEILING PLAN
	RE	REFERENCE
	REF	REFRIGERATOR
	REL	RELOCATED
	REQ'D	REQUIRED
	RESIL	RESILIENT
	REV	REVISE
	RH	RIGHT HAND
	RM	ROOM
	RO	ROUGH OPENING
	RUB	RUBBER
S	SC	SEALED CONCRETE
	SDISP	SOAP DISPENSER
	SECT	SECTION
	SV	SHEET VINYL
	SHWR	SHOWER
	SIM	SIMILAR
	SND	SANITARY NAPKIN DISPENSER
	SNR	SANITARY NAPKIN RECEPTACLE
	SPECS	SPECIFICATIONS
	SS	SOLID SURFACE
	STD	STANDARD
	STL	STEEL
	STOR	STORAGE
	STRUCT	STRUCTURAL
	SY	SQUARE YARD
	SYS	SYSTEM
	ST	STONE
T	TA	TILE ACCESSORY
	TB	TILE BASE
	TBD	TO BE DETERMINED
	TC	TERRA COTTA
	TEL	TELEPHONE
	TERR	TERRAZZO
	THK	THICK
	T&G	TONGUE & GROOVE
	TKBD	TACK BOARD
	TPD	TOILET PAPER DISPENSER
	TLT	TOILET
	TO	TOP OF
	TV	TELEVISION
	TP	TOILET PARTITION
	TYP	TYPICAL
	TEMP	TEMPERED
	T	TILE
U	UC	UNDER COUNTER
	UNF	UNFINISHED
	UON	UNLESS OTHERWISE NOTED
	URIN	URINAL
	UTIL	UTILITY
V	VERT	VERTICAL
	VEST	VESTIBULE
	VF	VINYL FILM
	VIF	VERIFY IN FIELD
	VCT	VINYL COMPOSITION TILE
	VT	VINYL TILE
	VWC	VINYL WALL COVERING
W	W	WEST
	W/	WITH
	WB	WOOD BASE
	WC	WATER CLOSET
	W/C	WHEELCHAIR
	WD	WOOD
	WF	WAYFINDING
	WG	WIRE GLASS
	WH	WALL HUNG
	WI	WROUGHT IRON
	WM	WIRE MESH
	WP	WATERPROOFING
	WS	WOOD SLAT
	WSCT	WAINSCOT
	WWF	WELDED WIRE FABRIC
	WDP	WOOD PANEL
Y	YD	YARD

GENERAL NOTES

GENERAL INTERIOR DESIGN NOTES:

1. ALL MATERIALS AND WORK SHALL CONFORM TO ALL GOVERNING CODES, REGULATIONS, AND AGENCIES.
2. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS OR GUIDELINES FROM GOVERNING REGULATORY AGENCIES BEFORE PROCEEDING WITH ANY ITEMS OF WORK UNDER OR WITHIN SUCH JURISDICTION(S).
3. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTIONS NECESSARY PER ALL APPLICABLE CODES.
4. THESE DOCUMENTS REPRESENT THE DESIGN INTENT FOR THE SUBJECT CONSTRUCTION AND ARE NOT INTENDED TO BE A COMPLETE SET OF INSTRUCTIONS ON HOW TO CONSTRUCT A BUILDING PROJECT.
5. THE DRAWINGS, AND ANY SUBSEQUENTLY ISSUED AGENDA, AMENDMENTS, FIELD ORDERS, OR CHANGE ORDERS ARE PART OF THESE CONTRACT DOCUMENTS.
6. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN IN THE DRAWINGS BUT NOT IN THE SPECIFICATIONS SHALL BE INTERPRETED AS BEING IN BOTH. ENLARGED SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS, PROJECT SPECIFICATIONS SHALL TAKE PRECEDENCE OVER DRAWING NOTES.
7. DO NOT SCALE DRAWINGS
8. CONSULT WITH INTERIOR DESIGNER REGARDING CLARIFICATIONS, VERIFY LOCATION OF ALL FURNITURE WITH INTERIOR DESIGNER, PRIOR TO INSTALLATION.
9. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. DISCREPANCIES BETWEEN ANY CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE INTERIOR DESIGNER PRIOR TO PROCEEDING WITH THE WORK.
10. VERIFY FIELD CONDITIONS FOR COORDINATION WITH THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK, COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS AND SYSTEMS PROVIDED BY THE OWNER.
11. WORK INDICATED AS "NOT IN CONTRACT," "N.I.C." OR "BY OTHERS" SHALL BE PERFORMED BY OWNER'S SEPARATE CONTRACTOR. CONTRACTOR TO COORDINATE WITH OWNER AND COOPERATE IN COMPLETION OF SEPARATE CONTRACTS.
12. TO ESTABLISH THE COMPLETE SCOPE OF ITS WORK AND TO AFFECT CLOSE COORDINATION WITH THE OTHER TRADES, EACH TRADE SHALL COMPLETELY REVIEW THE PLANS AND SPECIFICATIONS, NOT ONLY FOR ITS RESPECTIVE TRADES BUT FOR THE WORK OF OTHER RELATED TRADES AS WELL.
13. THE CONTRACTOR SHALL REVIEW AND DEMONSTRATE UNDERSTANDING OF THE DESIGN INTENT DEPICTED HERE THROUGH SUBMITTAL OF REQUESTED PROJECT COORDINATION DRAWINGS, SAMPLES, MATERIALS, PRODUCT DATA, MOCKUPS, AND OTHER REQUESTED COMMUNICATIONS.
14. REFER TO FINISH SCHEDULES AND COLOR LIST FOR WALL FINISH DESIGNATIONS.
15. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
16. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
17. OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR THE INCORRECT DESCRIPTION OF DETAILS OF WORK THAT ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR THAT OUR INDUSTRY STANDARD APPLICATIONS AND CUSTOMARILY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISS DESCRIBED DETAILS OF THE WORK.
18. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND METHODS REQUIRED TO CONSTRUCT THE PROJECT IN COMPLIANCE WITH THE DESIGN INTENT.
20. THE CONTRACTOR SHALL IN ALL CASES APPLY CONSTRUCTION INDUSTRY BEST PRACTICES TO ALL CONSTRUCTION ACTIVITIES PERFORMED UNDER THEIR AUTHORITY.

GENERAL PLAN NOTES

1. SEE INTERIOR DESIGN DRAWINGS FOR INTERIOR ELEVATIONS AND FINISHES.
2. FINISH FLOORS SHALL BE THE SAME LEVEL ON BOTH SIDES OF THE DOORS EXCEPT FOR AS NOTED.
3. CEILING HEIGHTS NOTED ON THE DRAWINGS FOR ROOMS OR AREAS IS THE HEIGHT FROM FINISHED FLOOR SURFACE TO FINISHED CEILING HEIGHT OR WHERE NO FINISH CEILING IS CALLED FOR, THE CEILING HEIGHT NOTED IS THE MINIMUM REQUIRED HEADROOM CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE "LOW POINT" OF PIPES, DUCTS, CONDUIT, LIGHT FIXTURES, AND SIMILAR EXPOSED OR SUSPENDED ITEMS OR EQUIPMENT.
4. PROVIDE ADDITIONAL BLOCKING AND REINFORCING TO ACCOMMODATE CEILING MOUNTED LIGHT FIXTURES, BATHROOM ACCESSORIES AND GRAB BARS, AND ALL WALL MOUNTED MILLWORK, CABINETRY OR COUNTERTOPS SHOWN. SEE ALSO THE EXTERIOR AND INTERIOR DETAILS PROVIDED FOR ANY ADDITIONAL BLOCKING LOCATIONS.

DEFINITIONS:

1. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEMS SHALL BE PROVIDED FOR ALL OCCURRENCES OF THE CONDITION NOTED.
2. "SIMILAR" INDICATES COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS OF THE DESIGN INTENT FOR THE CONDITION NOTED.
3. "AS REQUIRED" INDICATES COMPONENT REQUIRED TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS SHALL BE PROVIDED.
4. "ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND A PLUMBER RELATION TO ADJACENT MATERIALS.

DIMENSIONS:

1. DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE INTENDED SIZE, CLEARANCE, AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS.
2. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.
3. NOTIFY THE INTERIOR DESIGNER OF ANY DIMENSIONAL DISCREPANCY PRIOR TO PROCEEDING WITH THE WORK.
4. CEILING HEIGHTS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF SUSPENDED CEILING SYSTEM OR FACE OF FINISH MATERIAL AS SCHEDULED.
5. DIMENSIONS INDICATING "CLEAR WIDTH" SHALL BE FROM FINISH FACE TO FINISH FACE.
6. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE AND PLUM,

PROJECT DESIGN TEAM

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ST. LANDRY BANK
ROBBIE TOMLINSON
ROBBIE.TOMLINSON@STLANDRYBANK.COM

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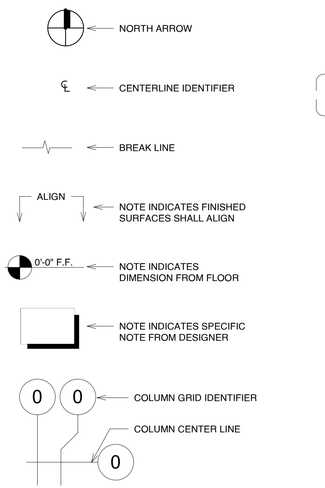
DRAWING ANNOTATION SYMBOLS AND CALLOUTS

DRAWING TITLE:

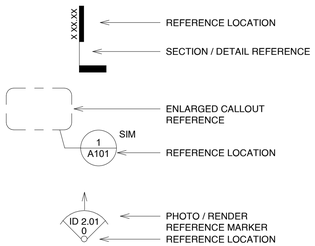
ROOM NAME / NUMBER SYMBOL:

XXX ← SPACE NUMBER
ROOM NAME ← IDENTIFICATION
XXX SF ← SPACE SQUARE FOOTAGE

GRAPHIC SYMBOLS:



DETAIL REFERENCE:



REVISION SYMBOLS:



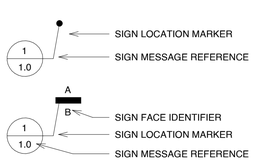
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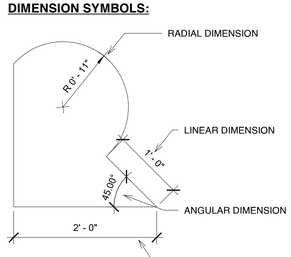
FINISH REFERENCES:



WAYFINDING SYMBOLS:



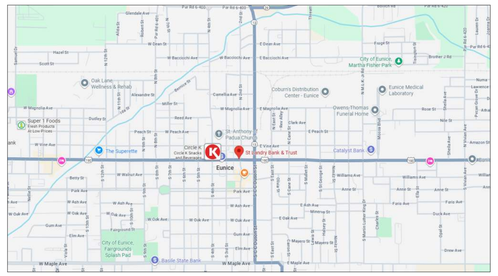
DIMENSION SYMBOLS:



PROJECT RENDERING



VICINITY MAP



AREA MAP



PHILLIP E. KERN
REG. NO. 15141
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EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
ID 0.0

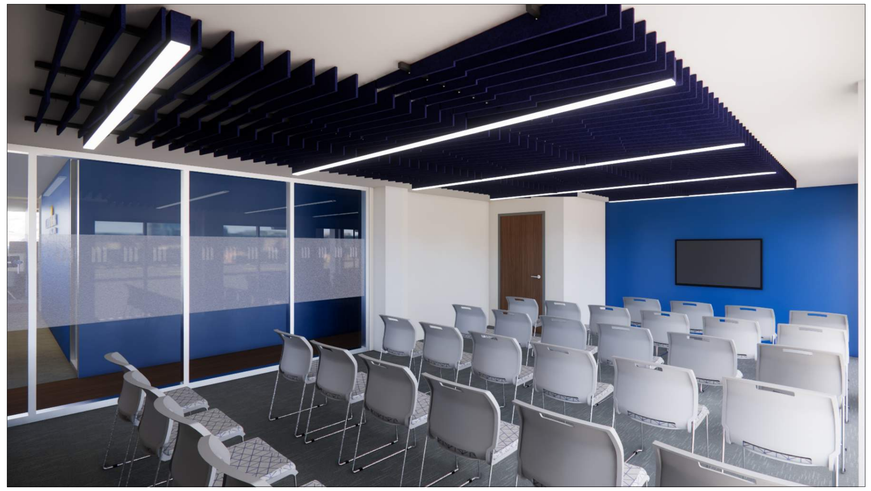
CDI solutions





RENDERS FOR DESIGN INTENT PURPOSES ONLY





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REGISTERED ARCHITECT

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EUNICE, LA. 70535

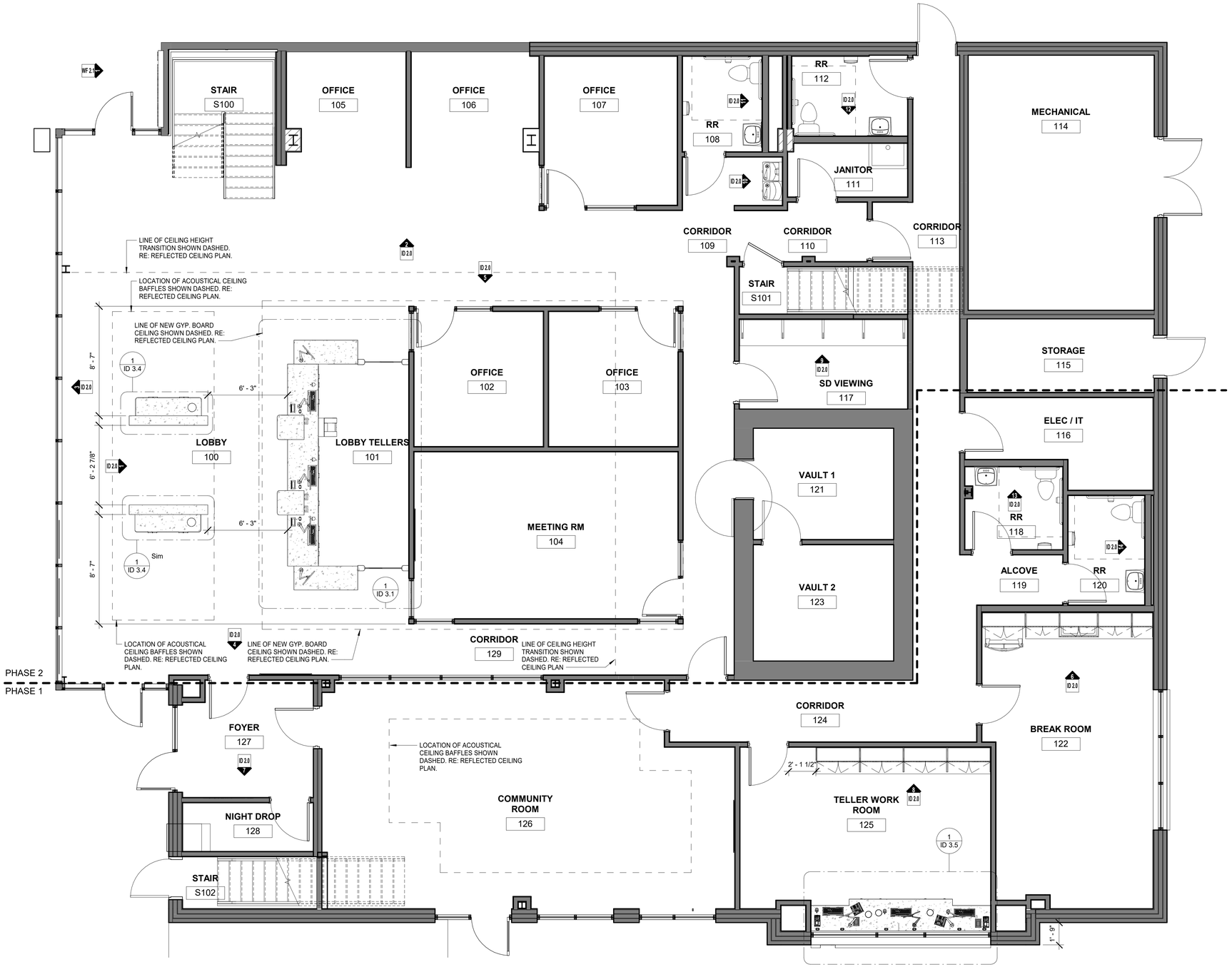
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
DESIGN INTENT RENDERINGS

SHEET NUMBER:
ID 0.1

CDI solutions



1 **INTERIOR REFERENCE PLAN**
1/4" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. CONTRACTOR SHALL PROTECT ALL EXISTING ELECTRICAL CONDUIT, WIRING AND ASSOCIATED EQUIPMENT. IF ANY PORTIONS ARE DAMAGED THAT ARE NOT SPECIFICALLY CALLED TO BE REPLACED OR MOVED, THEN THE CONTRACTOR SHALL ENSURE THAT ALL ARE RETURNED TO THEIR ORIGINAL CONDITION.
2. CONTRACTOR SHALL PROTECT ALL EXISTING FLOORING, AS NECESSARY. ANY DAMAGED OR MISSING FLOORING SHALL BE REPAIRED WITH MATCHING, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING, REMAINING FURNITURE / EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOVEMENT, PROTECTION, OR STORAGE OF ALL FURNITURE / EQUIPMENT, AS NECESSARY.

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
INTERIOR REFERENCE PLAN

SHEET NUMBER:
ID 1.0

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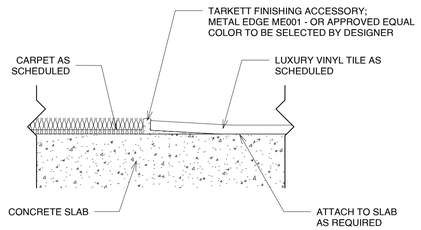
1 **INTERIOR FLOOR FINISH PLAN**
1/4" = 1'-0"

FLOOR FINISH LEGEND

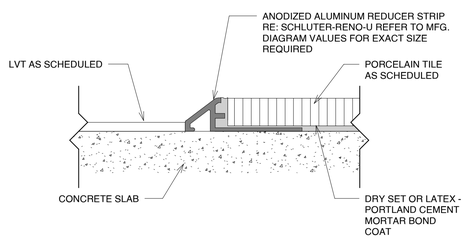
- EXISTING FLOORING TO REMAIN N.I.C.
- CPT-1
- CPT-2
- LVT-1
- T-2
- LVT-1

FLOOR FINISH GENERAL NOTES

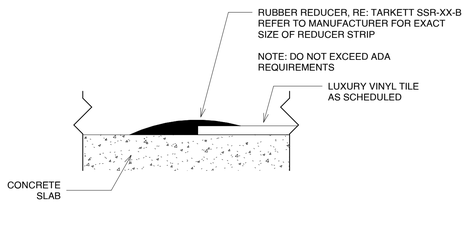
A. FLOORING CONTRACTOR TO PATCH, REPAIR, AND PREP SUBFLOOR AS REQUIRED TO ENSURE SURFACE IS LEVEL AND PROTECTED FROM MOISTURE PENETRATING THE SLAB.
B. FLOORING CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
C. WHERE TWO (2) FLOORING MATERIALS MEET, PROVIDE TRANSITION STRIP AS SPECIFIED, UNLESS OTHERWISE NOTED. PROVIDE A SMOOTH AND GENTLE SLOPE TO MEET A.D.A. COMPLIANCE AT TRANSITIONS; FLOAT TO MAKE FLUSH. ANY TRANSITION GREATER THAN 1/4" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2; OVER 1/2" SHALL BE RAMPED WITH A MAXIMUM SLOPE OF 1:12
D. RESTROOM TO BE TILE **T-2** WITH COVE PROFILE **TB-1**.
E. WHERE TWO (2) FLOORING MATERIALS MEET AT DOORWAYS, TRANSITIONS TO OCCUR ON CENTER OF DOOR UNDERCUT.
F. WHEN A FLOOR MATERIAL DOES NOT ABUT ANOTHER OR TERMINATE INTO A WALL, EXPOSED EDGES SHALL BE TREATED WITH THE APPROPRIATE EDGE-PROTECTION TRIM.
G. WHEN A FLOOR MATERIAL ABUTS OR TERMINATES INTO MILLWORK, G.C. TO ENSURE THAT JOINTS ARE TIGHT AND NO PORTION OF THE SUBFLOOR AND / OR UNDERLAYMENT IS VISIBLE.
H. ALL TRANSITION STRIPS WILL BE MITERED AT CORNERS.
I. REFER TO PLAN FOR FLOOR TILE / PLANK ORIGIN LOCATIONS. WHEN NO ORIGIN POINT IS SPECIFIED, CENTER OF FLOOR TILE / PLANK SHALL BE CENTERED IN THE ROOM IN BOTH DIRECTIONS.
J. REFER TO ARCHITECTURAL SPECIFICATIONS PAGES FOR ADDITIONAL INFORMATION FOR ALL FLOOR FINISH MATERIALS INDICATED IN THIS DRAWING.
K. REFERENCE MANUFACTURER'S WEBSITE FOR CHANGES & UPDATES TO THE SPECIFICATIONS.
L. REFER TO FINISH LEGEND FOR SPECIFICATIONS
M. FLOORING MUST BE INSTALLED UNDER COUNTERTOPS WHERE THERE ARE NO BASE CABINETS.
N. SHOULD SITE / EXISTING / FIELD CONDITIONS DIFFER FROM PLANS AS SHOWN, THE G.C. AND ITS SUBCONTRACTORS ARE REQUIRED TO CONTACT THE DESIGN TEAM IMMEDIATELY TO DISCUSS ANY DISCREPANCY DISCOVERED ON SITE.



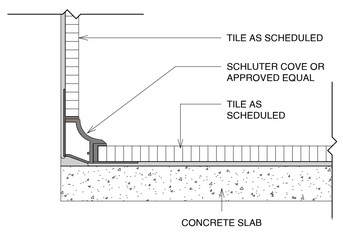
2 **CARPET TILE TO LUXURY VINYL TILE**
12" = 1'-0"



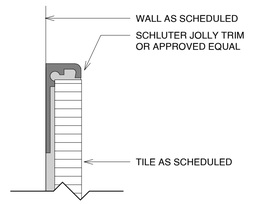
3 **LVT TO PORCELAIN TILE**
12" = 1'-0"



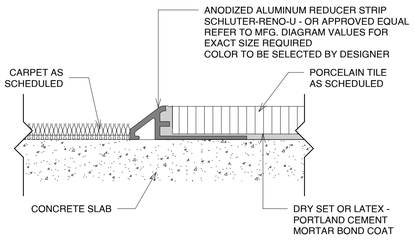
4 **CONCRETE TO LVT**
12" = 1'-0"



5 **TILE SCHLUTER COVE**
6" = 1'-0"



6 **TILE SCHLUTER TRIM**
12" = 1'-0"



7 **CARPET TILE TO PORCELAIN TILE**
12" = 1'-0"

CDI solutions

PHILLIP E. KERN
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STATE OF LOUISIANA
REGISTERED ARCHITECT

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
INTERIOR FINISH PLAN

SHEET NUMBER:
ID 1.1

FURNITURE TO BE PROVIDED BY OWNER AND USED FOR REFERENCE ONLY



1 **INTERIOR FURNITURE PLAN**
1/4" = 1'-0"

PLAN NORTH

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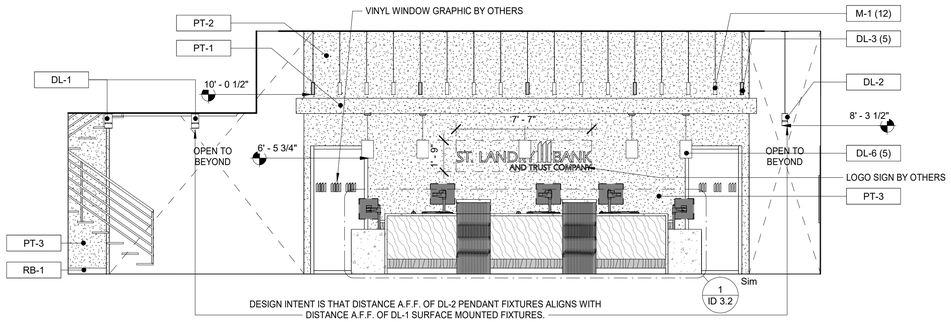
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

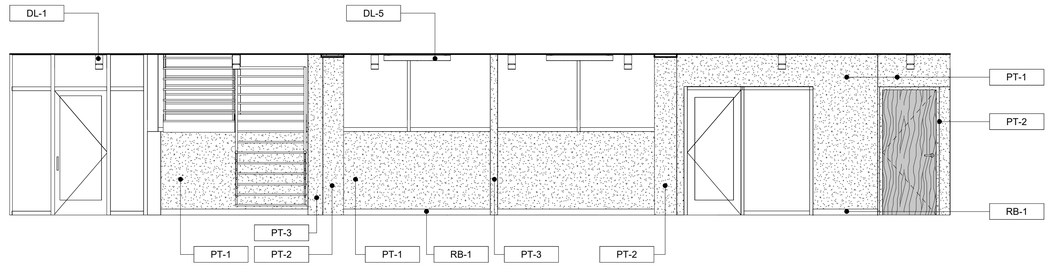
SHEET TITLE:
REFERENCE FURNITURE PLAN

SHEET NUMBER:
ID 1.2

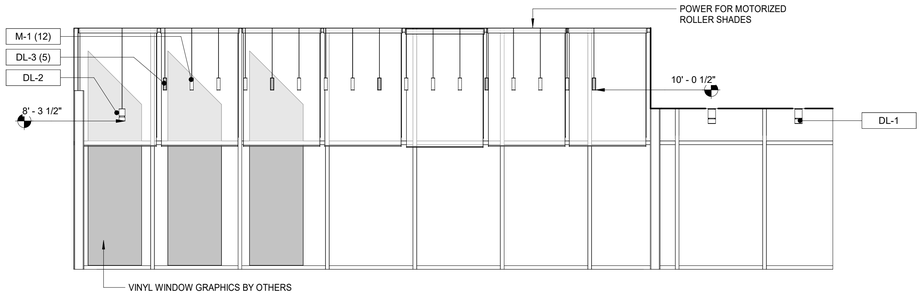
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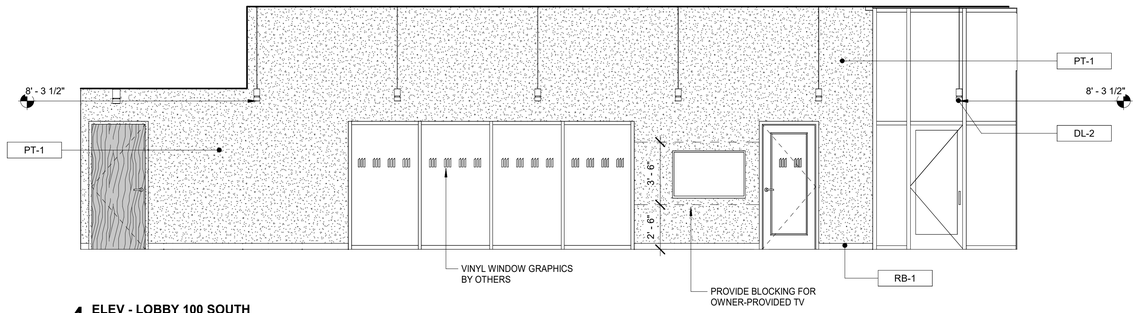
1 ELEV - LOBBY 100 EAST
1/4" = 1'-0"



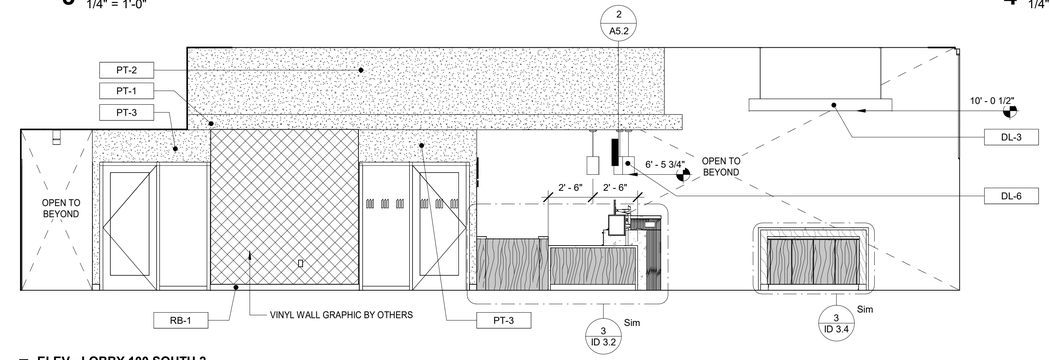
2 ELEV - LOBBY 100 NORTH
1/4" = 1'-0"



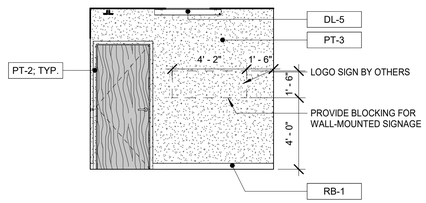
3 ELEV - LOBBY 100 WEST
1/4" = 1'-0"



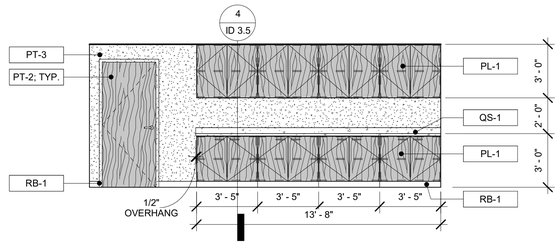
4 ELEV - LOBBY 100 SOUTH
1/4" = 1'-0"



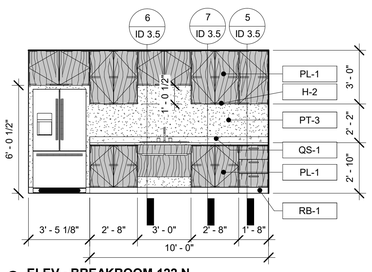
5 ELEV - LOBBY 100 SOUTH 2
1/4" = 1'-0"



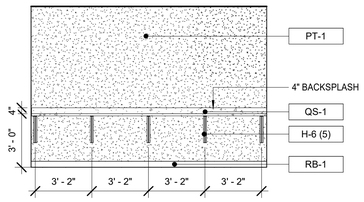
7 ELEV - FOYER 127 SOUTH
1/4" = 1'-0"



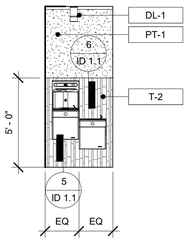
8 ELEV - TELLER WORKROOM 125 N
1/4" = 1'-0"



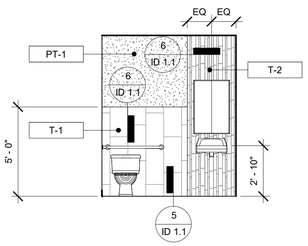
6 ELEV - BREAKROOM 122 N
1/4" = 1'-0"



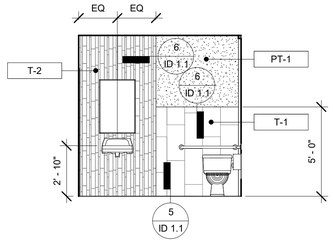
9 ELEV - SD VIEWING 117 N
1/4" = 1'-0"



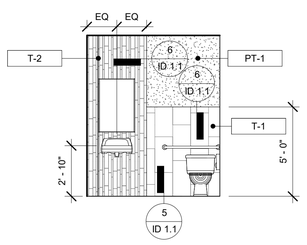
10 ELEV - DRINKING FOUNTAIN
1/4" = 1'-0"



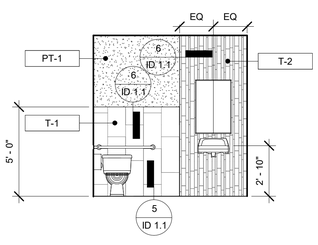
11 ELEV - RR 108 EAST
1/4" = 1'-0"



12 ELEV - RR 112 SOUTH
1/4" = 1'-0"



13 ELEV - RR 118 NORTH
1/4" = 1'-0"



14 ELEV - RR 120 EAST
1/4" = 1'-0"

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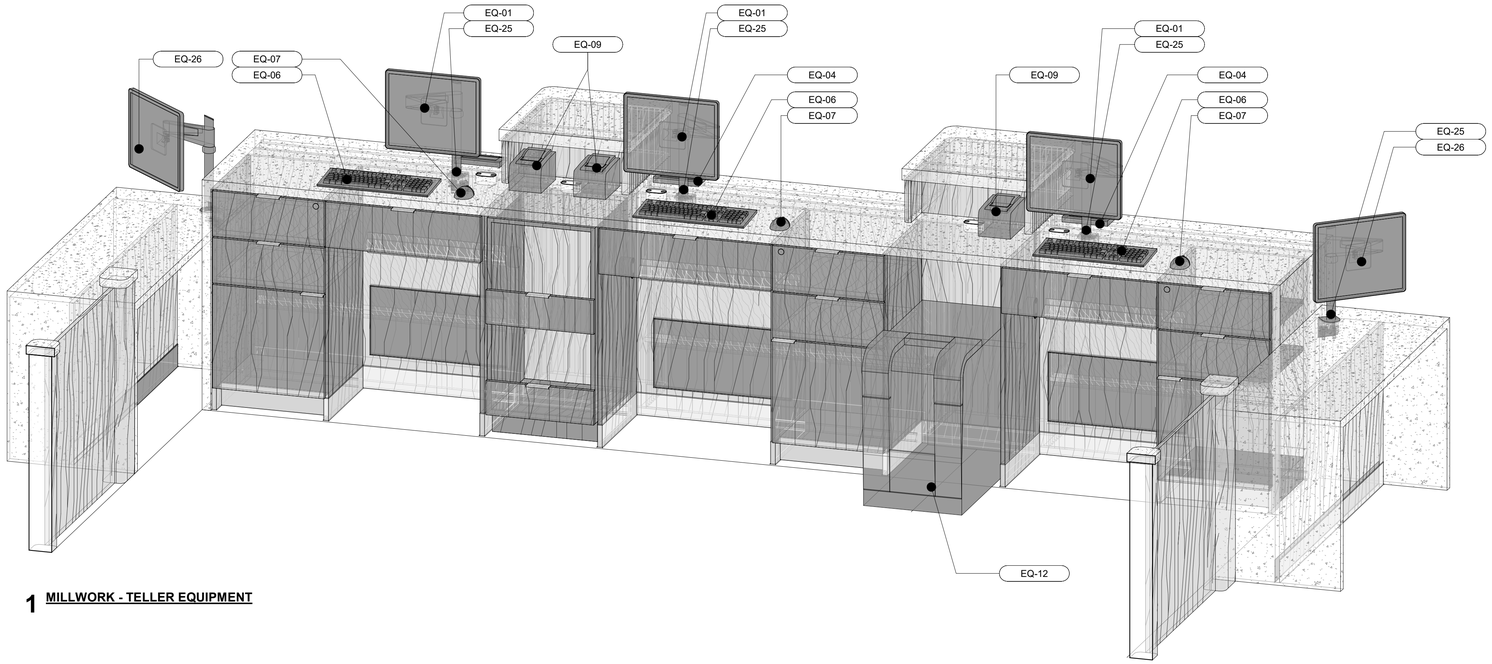
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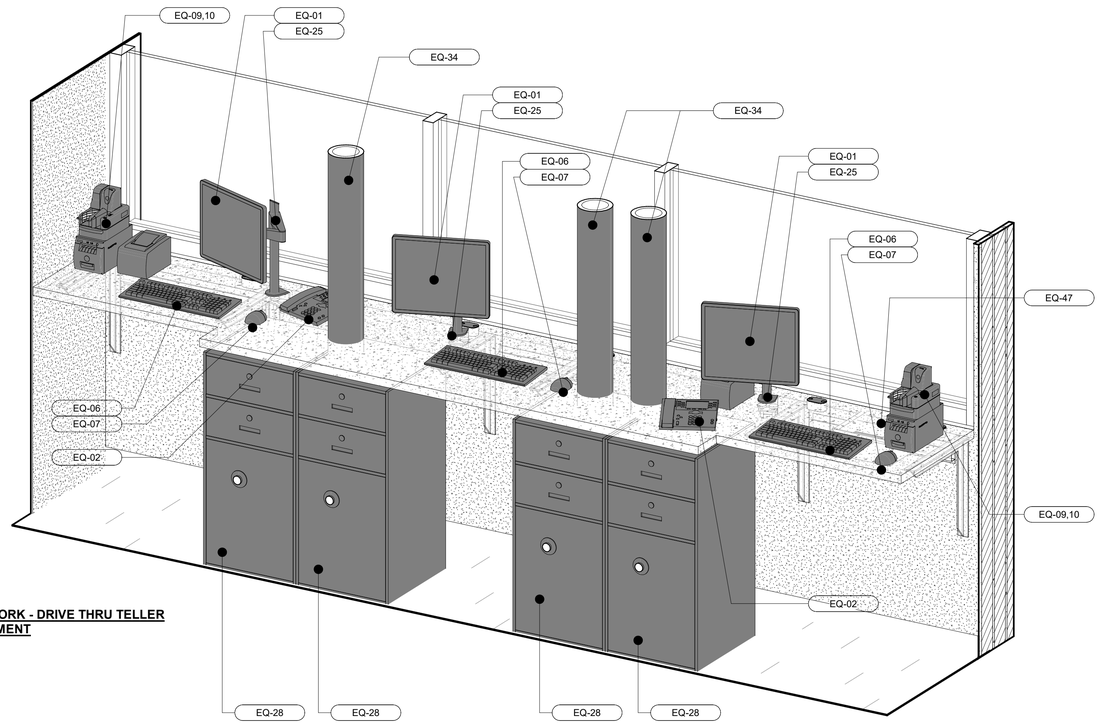
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
ID 2.0



1 **MILLWORK - TELLER EQUIPMENT**



2 **MILLWORK - DRIVE THRU TELLER EQUIPMENT**

EQUIPMENT SCHEDULE									
TAG	QTY.	DESCRIPTION	C.F.	C.I.	O.F.	O.I.	DATA	POWER	PLUMBING
EQ-01		ALL IN ONE COMPUTER			O	O			
EQ-02		PHONE			O	O	O	O	
EQ-03		ID SCANNER			O	O			
EQ-04		SIGNATURE PAD			O	O		O	
EQ-05		BATTERY BACKUP / UPS						O	
EQ-06		WIRELESS KEYBOARD							
EQ-07		WIRELESS MOUSE							
EQ-08		CASH ADVANCE MACHINE						O	
EQ-09		RECEIPT PRINTER						O	
EQ-10		CHECK SCANNER						O	
EQ-11		CHECK PRINTER						O	
EQ-12		TCR CASH RECYCLER							
EQ-13		CARD PRINTER / INSTANT ISSUANCE						O	
EQ-14		POSTAGE MACHINE							
EQ-15		ITM							
EQ-16		TV MONITOR					O	O	
EQ-17		MICROWAVE						O	
EQ-18		REFRIGERATOR						O	
EQ-19		COFFEE MAKER						O	
EQ-20		WATER DISPENSER							
EQ-21		NIGHT DROP					O	O	
EQ-22		ATM - DRIVE UP							
EQ-23		TRASH RECEPTACLE							
EQ-24		DUAL MONITOR ARM							
EQ-25		SINGLE MONITOR ARM							
EQ-26		COMPUTER MONITOR							
EQ-27		OVAL WIRE MANAGEMENT							
EQ-28		BANK STEEL							
EQ-29		MULTI-FUNCTION PRINTER						O	
EQ-30		SAFE							
EQ-31		IT RACK							
EQ-32		SHRED MACHINE / BIN						O	
EQ-33		COIN SORT MACHINE						O	
EQ-34		PNEUMATIC TUBE TELLER TERMINAL						O	
EQ-35		PNEUMATIC TUBE MEMBER TERMINAL							
EQ-36		INTERACTIVE SCREEN							
EQ-37		IPAD AND DOCKING STATION						O	
EQ-38		CURRENCY COUNTER						O	
EQ-39		NOT USED							
EQ-40		DISHWASHER							
EQ-41		ADDING MACHINE							
EQ-42		DESKTOP PRINTER (TELLER)							
EQ-43		ATM - WALK UP							
EQ-44		COIN ROLL MACHINE						O	
EQ-45		DESKTOP SPEAKERS							
EQ-46		CPU						O	
EQ-47		DEAL HOLDER							
EQ-48		CPU HOLDER							
EQ-49		PIN PAD						O	
EQ-50		KEYBOARD WITH WIRE							
EQ-51		MOUSE WITH WIRE							
EQ-52		CAMERA AND SPEAKER							
EQ-53		UNDER-COUNTER REFRIGERATOR						O	
EQ-54		DESKTOP PRINTER (SALES MANAGER)							
EQ-55		DESKTOP PRINTER (OPS MANAGER)							
EQ-56		AUDIO INTERCOM SYSTEM						O	
EQ-57		TV CONTROL BOX							

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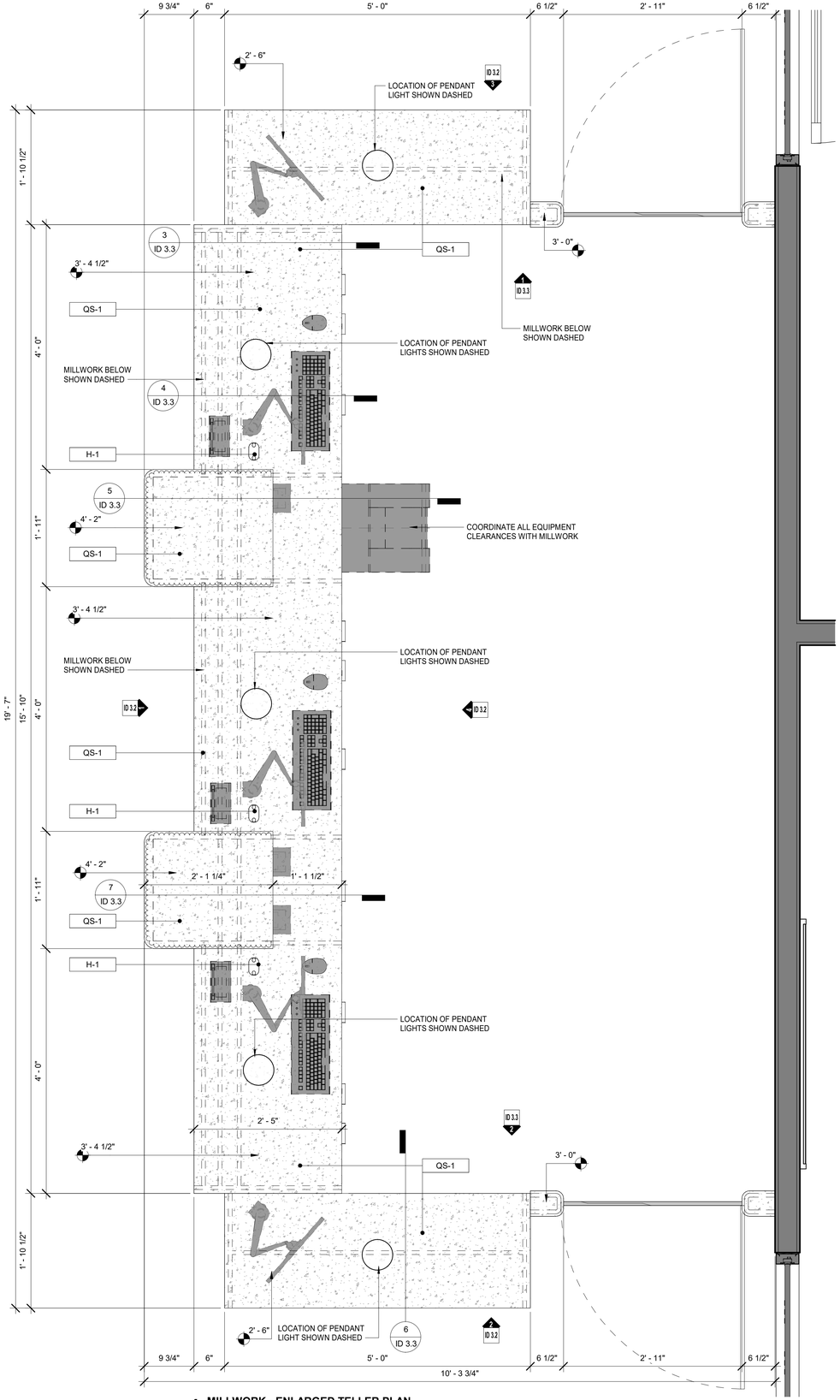
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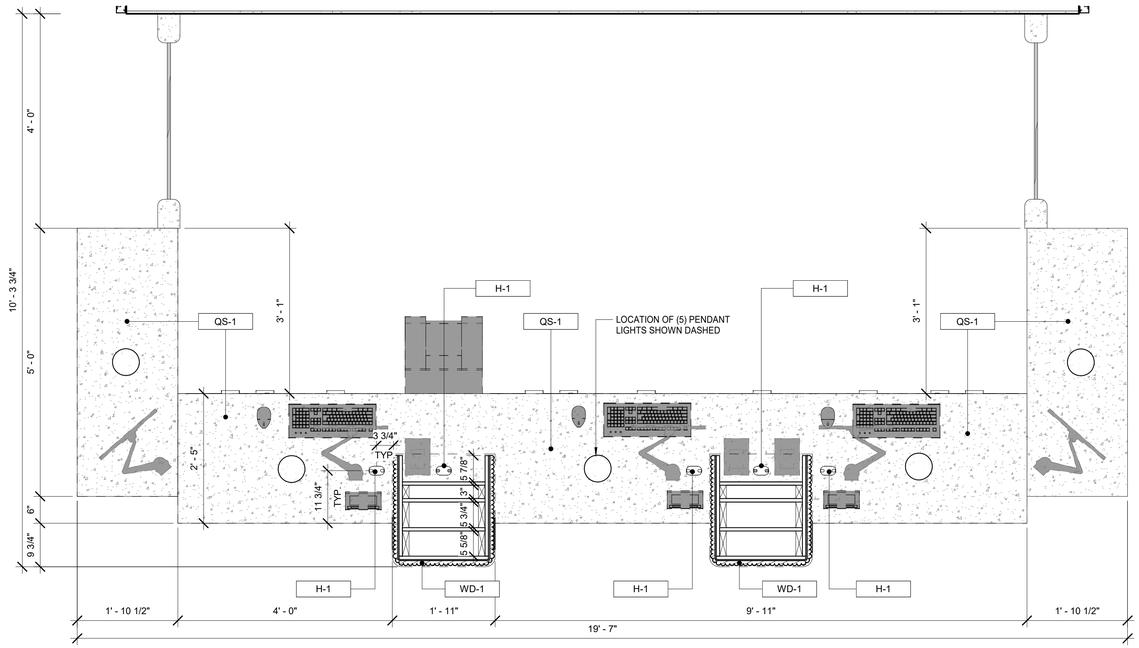
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PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
MILLWORK

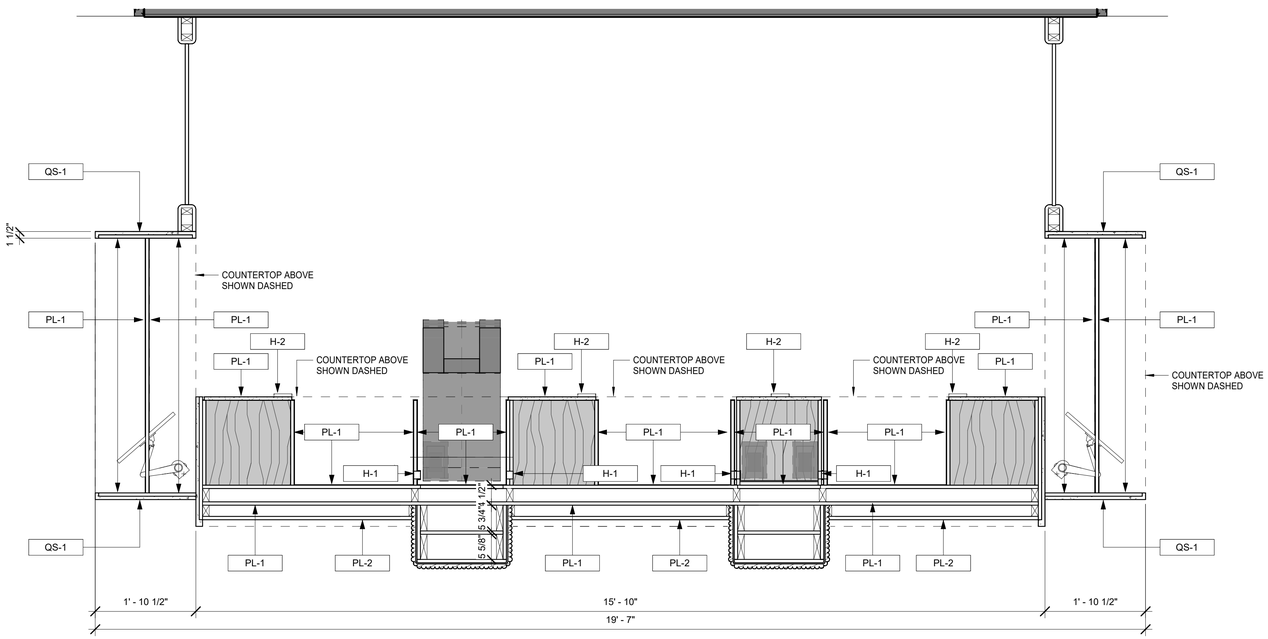
SHEET NUMBER:
ID 3.0



1 **MILLWORK - ENLARGED TELLER PLAN**
1" = 1'-0"



2 **MILLWORK - TELLER PLAN SECTION 1**
3/4" = 1'-0"



3 **MILLWORK - TELLER PLAN SECTION 2**
3/4" = 1'-0"

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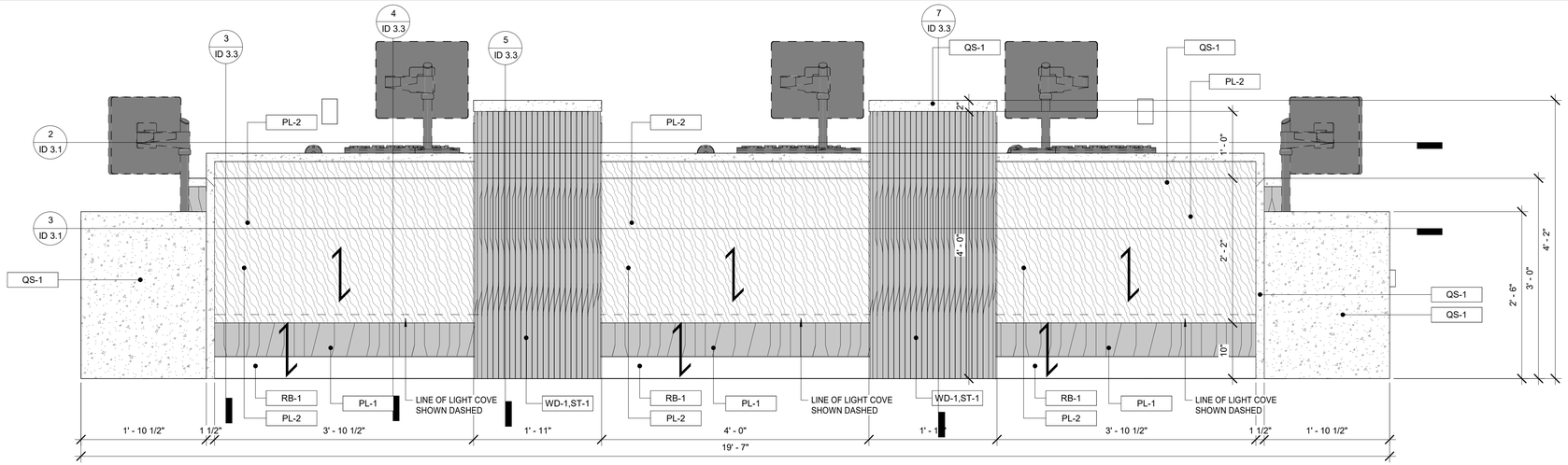
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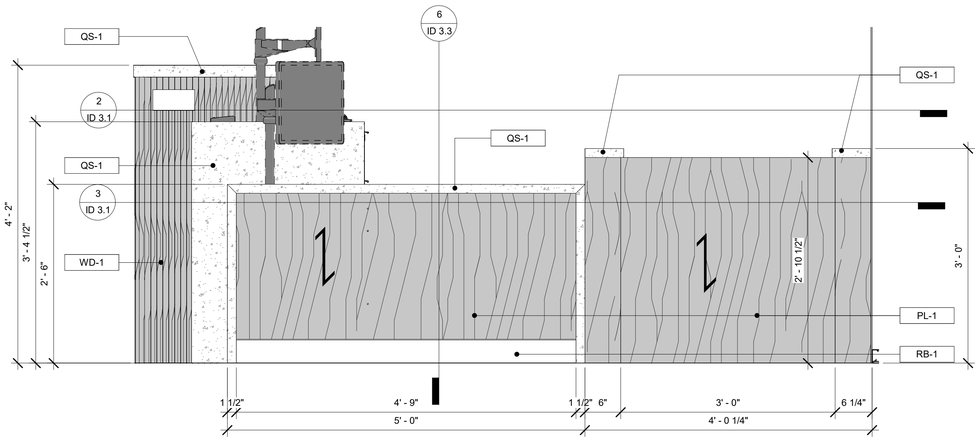
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PHASE: 100% CD
DATE: 2/16/2026

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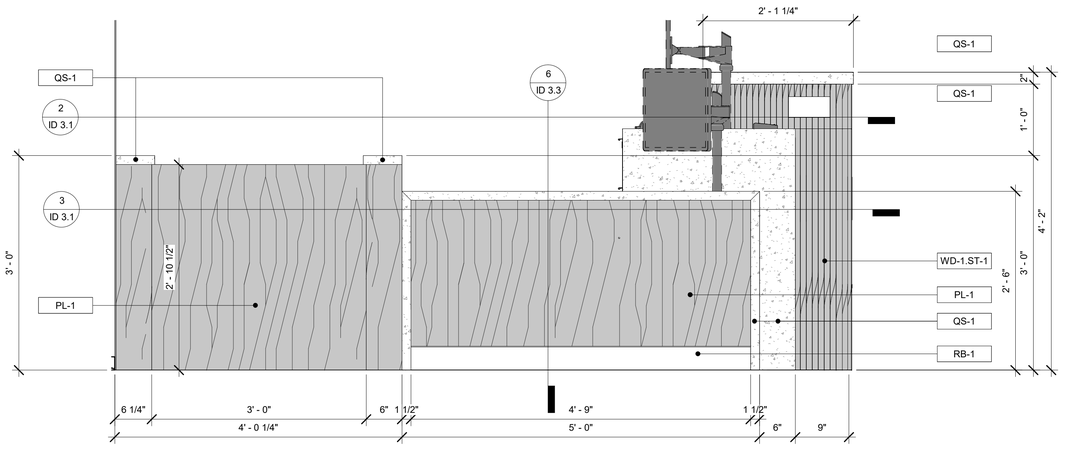
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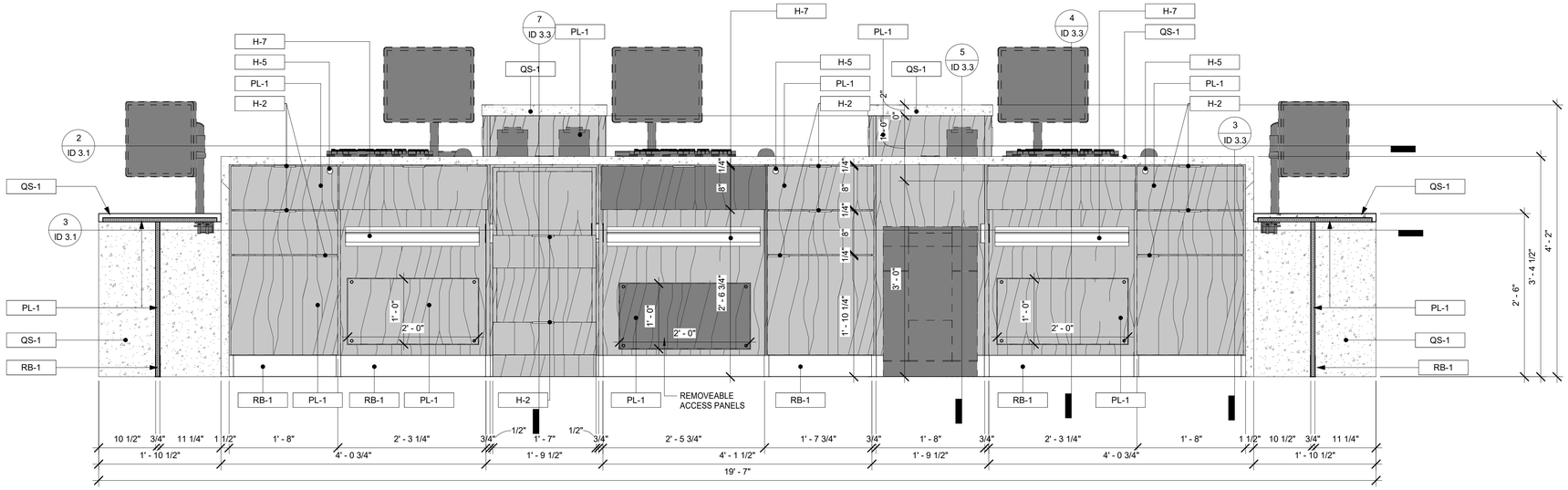
1 **MILLWORK - TELLER ELEV 1**
1" = 1'-0"



2 **MILLWORK - TELLER ELEV 2**
1" = 1'-0"



3 **MILLWORK - TELLER ELEV 3**
1" = 1'-0"



4 **MILLWORK - TELLER ELEV 4**
1" = 1'-0"

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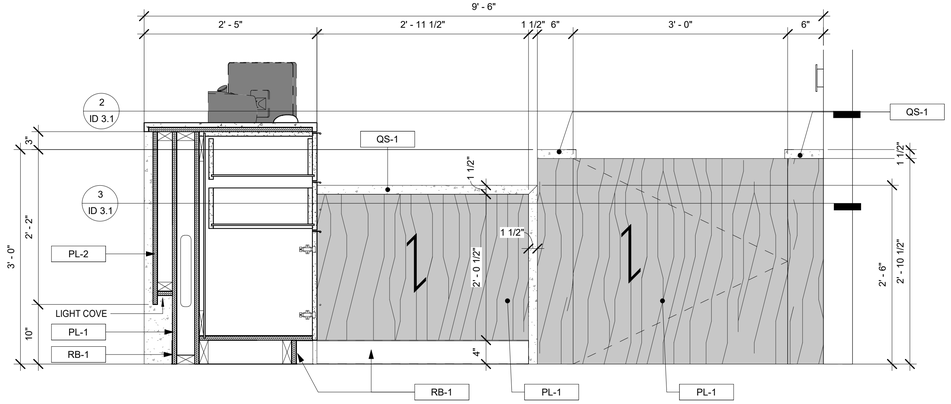
No.	Description	Date

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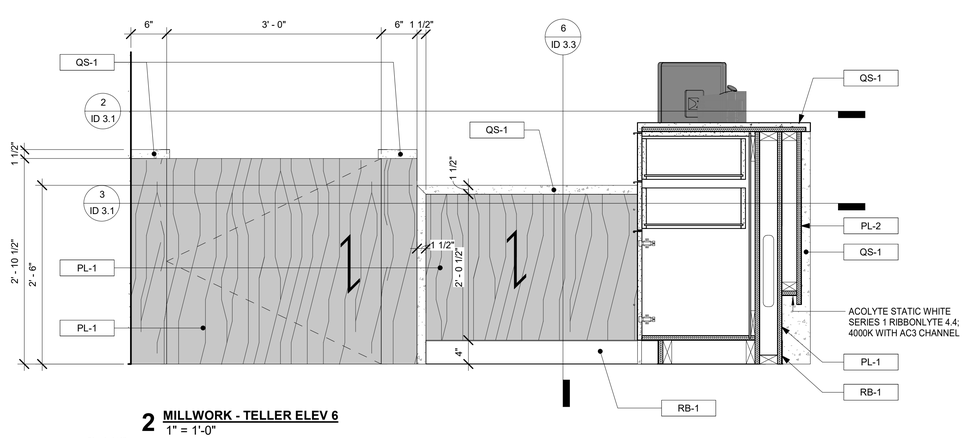
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MILLWORK

SHEET NUMBER:
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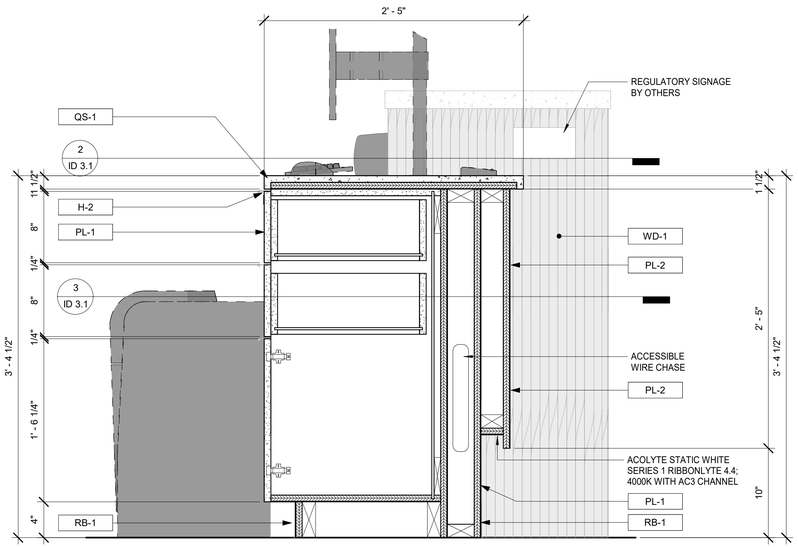
CDI solutions



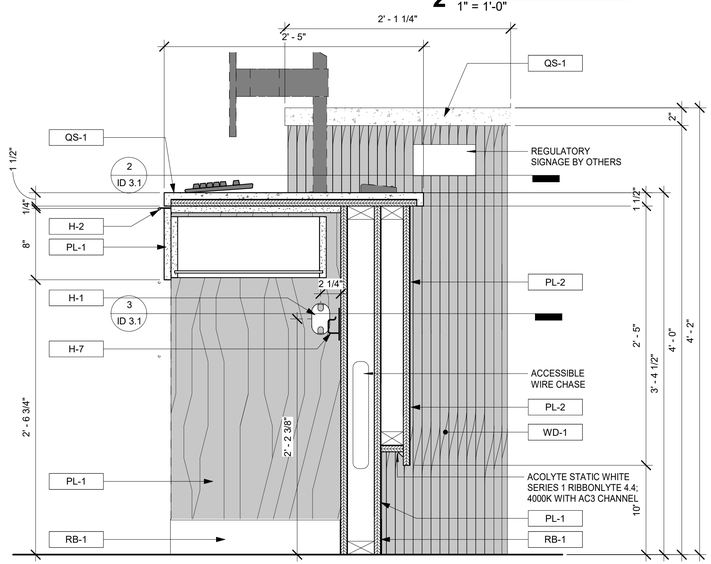
1 MILLWORK - TELLER ELEV 5
1" = 1'-0"



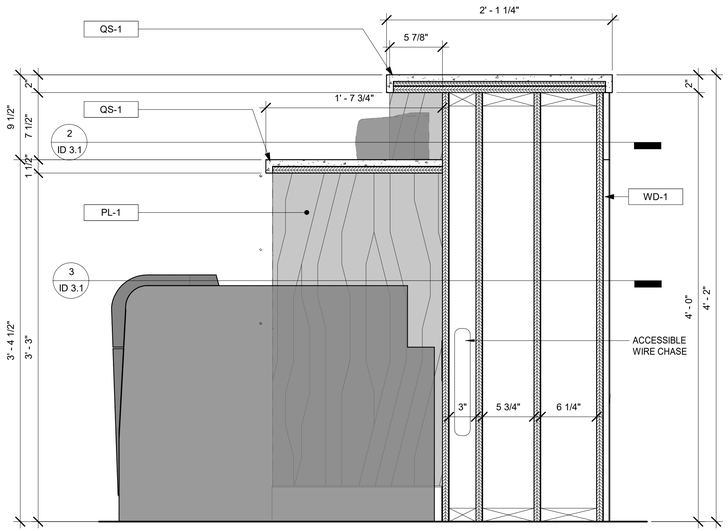
2 MILLWORK - TELLER ELEV 6
1" = 1'-0"



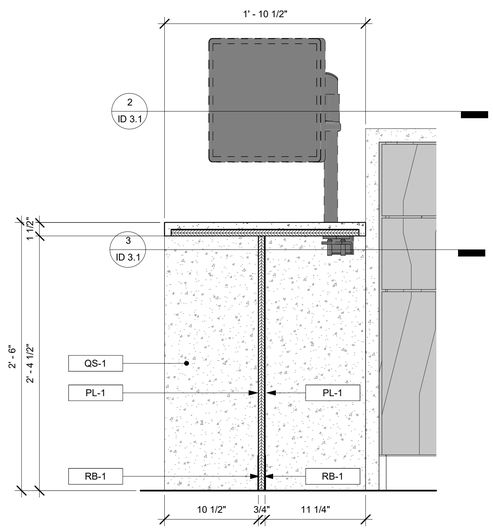
3 MILLWORK - TELLER SECTION 1
1 1/2" = 1'-0"



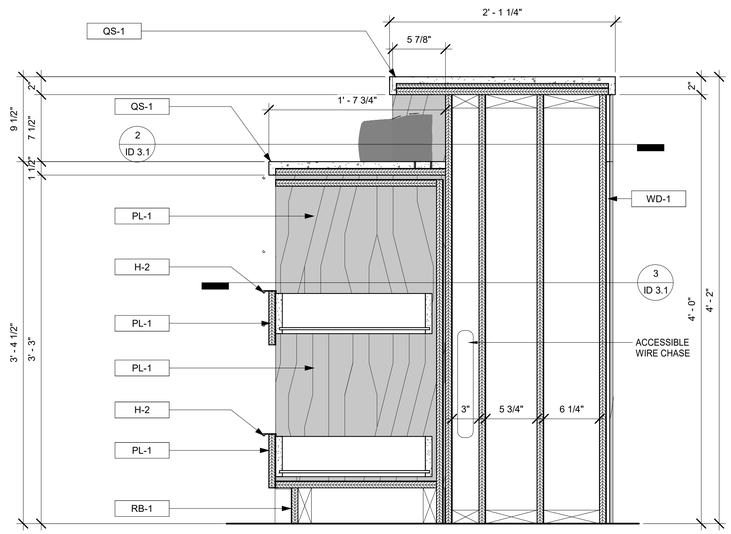
4 MILLWORK - TELLER SECTION 2
1 1/2" = 1'-0"



5 MILLWORK - TELLER SECTION 3
1 1/2" = 1'-0"



6 MILLWORK - TELLER SECTION 4
1 1/2" = 1'-0"



7 MILLWORK - TELLER SECTION 5
1 1/2" = 1'-0"

MILLWORK HARDWARE LEGEND

MARK	MANUFACTURER	DESCRIPTION	MODEL NO.
H-1	OUTWATER	OVAL WIRE MANAGEMENT GROMMET; COLOR: WHITE; 3 1/2" L X 2" W X 1/2" D	PART #; 39WH
H-2	MOCKETT	TAB DRAWER PULL; 1-1/2" PROFILE; COLOR: SATIN CHROME (26D)	DP3B (26D)
H-3	MOCKETT	TRASH GROMMET; STAINLESS STEEL; 8" W X 3" D	TM2C
H-4	MOCKETT	J SHAPE WIRE CABLE MANAGER; COLOR: GREY (92)	WM2 - 92
H-5	HAFELE	SNAP-IN LOCK CORE	210.04.71
H-6	RAKKS	18"H X 18"D SURFACE MOUNT COUNTER SUPPORT; CLEAR ANODIZED	EH-1818
H-7	MOCKETT	J-SHAPE UNDER DESK WIRE MANAGER W/ FLANGE, COLOR: BLACK	WM22

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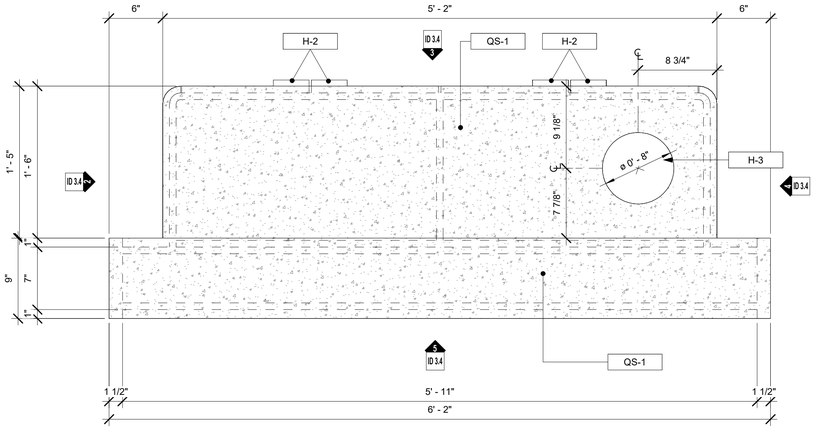
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

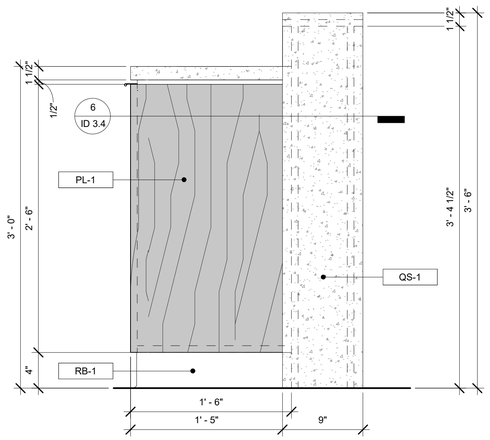
SHEET TITLE:
MILLWORK

SHEET NUMBER:
ID 3.3

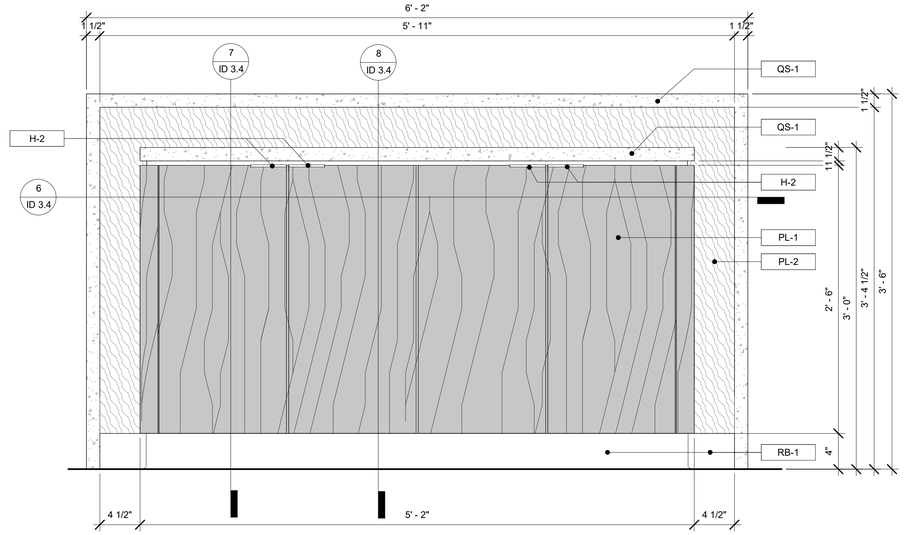
CDI solutions



1 **MILLWORK - ENLARGED CHECK WRITING PLAN**
1 1/2" = 1'-0"



2 **MILLWORK - CHECK WRITING ELEV 1**
1 1/2" = 1'-0"

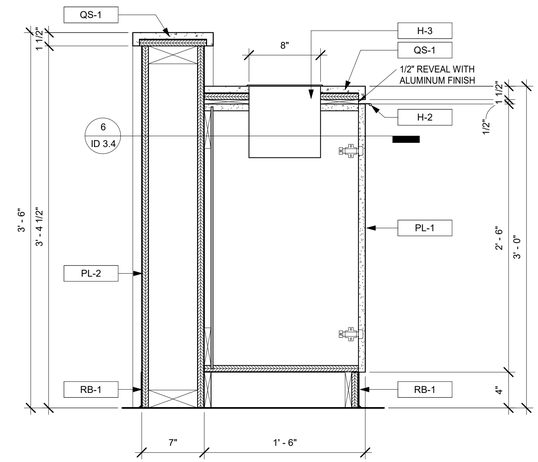


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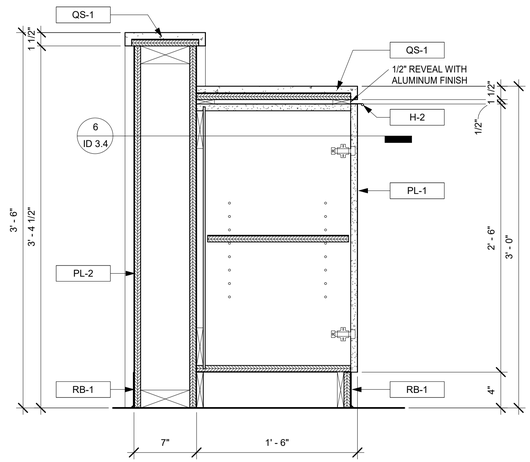
4 **MILLWORK - CHECK WRITING ELEV 3**
1 1/2" = 1'-0"

5 **MILLWORK - CHECK WRITING ELEV 4**
1 1/2" = 1'-0"

6 **MILLWORK - CHECK WRITING PLAN SECTION**
1 1/2" = 1'-0"



7 1
1 1/2" = 1'-0"
MILLWORK - CHECK WRITING SECTION



8 2
1 1/2" = 1'-0"
MILLWORK - CHECK WRITING SECTION

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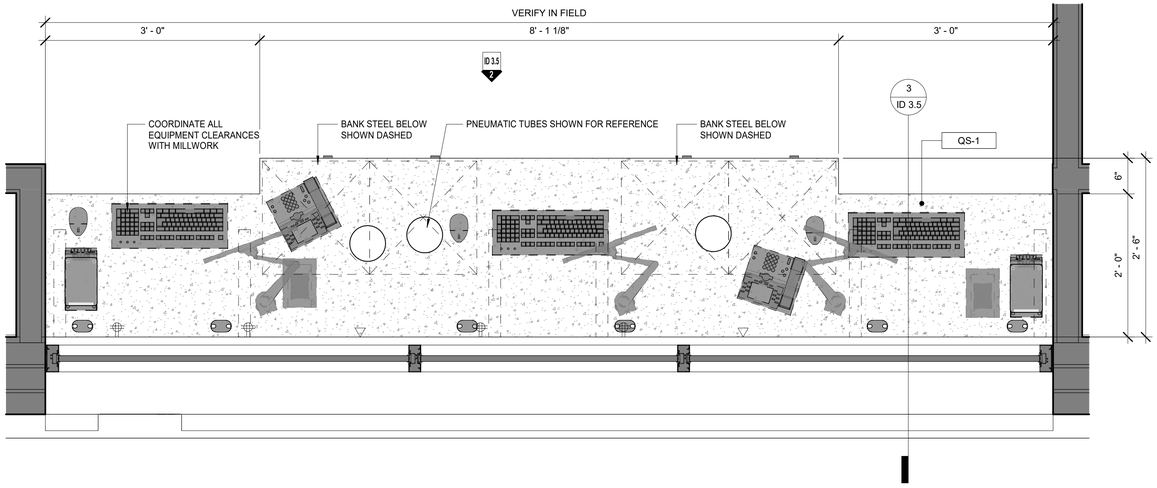
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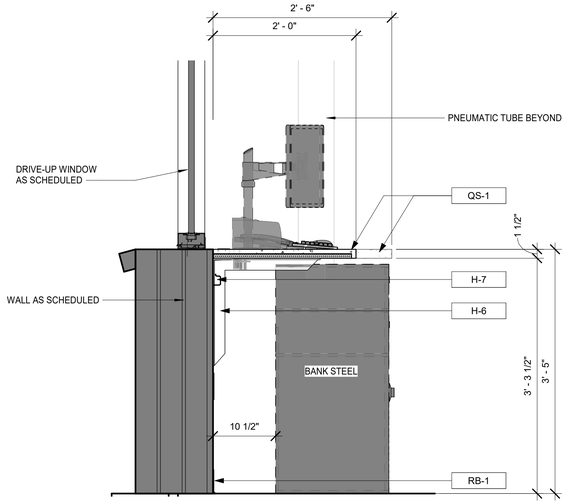
SHEET TITLE:
MILLWORK

SHEET NUMBER:
ID 3.4

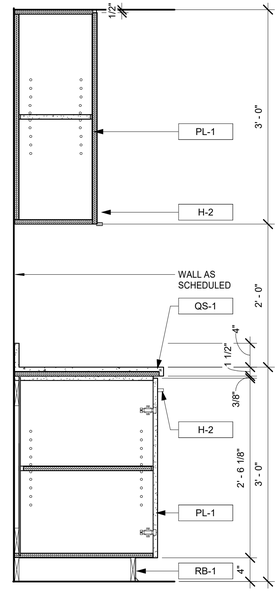
CDI solutions



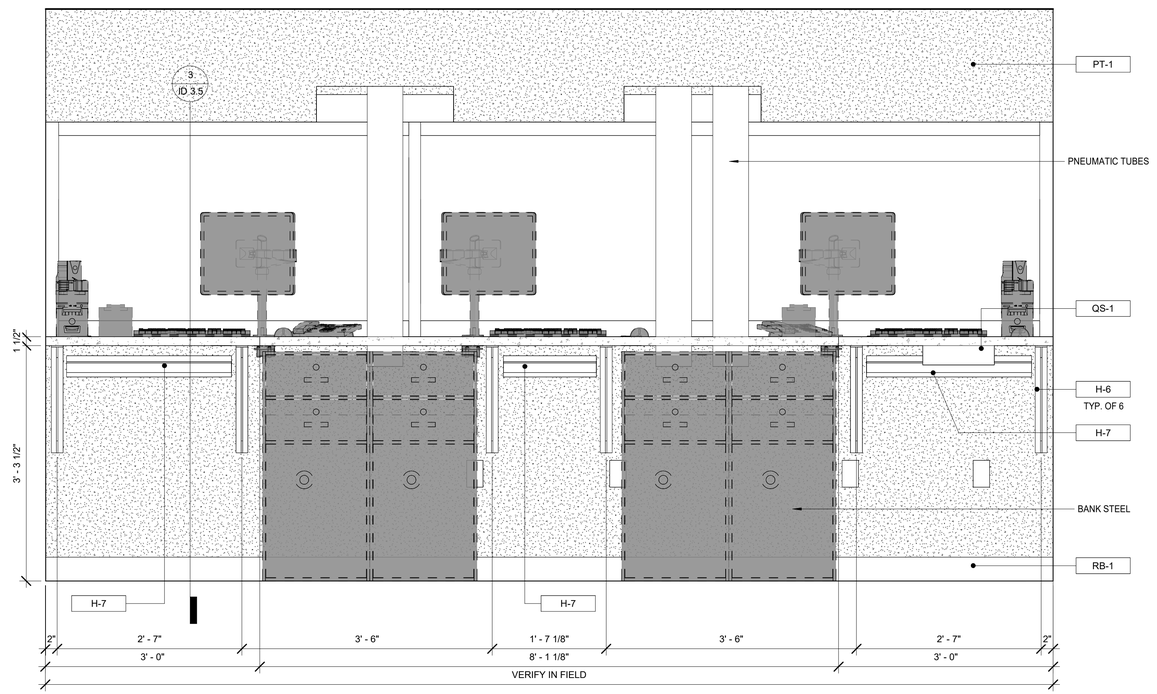
1 MILLWORK - DRIVE-UP TELLER
1" = 1'-0"



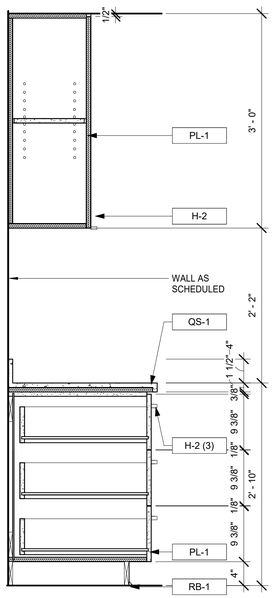
3 MILLWORK - DRIVE-THRU TELLER SECTION 1
1" = 1'-0"



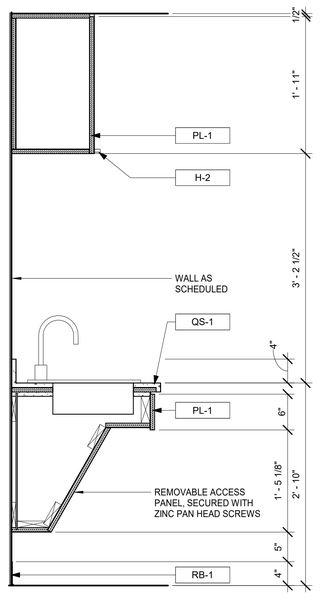
4 MILLWORK - WORKROOM SECTION 1
1" = 1'-0"



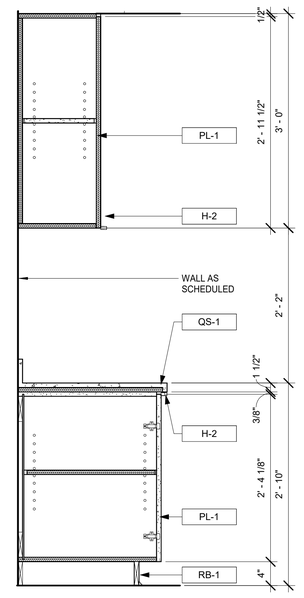
2 MILLWORK - DRIVE-UP TELLER ELEV
1" = 1'-0"



5 MILLWORK - BASE DRAWER AND UPPER CAB
1" = 1'-0"



6 MILLWORK - BASE APRON W/ SINK AND UPPER CAB
1" = 1'-0"



7 MILLWORK - BASE AND UPPER CAB
1" = 1'-0"

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No.	Description	Date

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PHASE: 100% CD
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SHEET TITLE:
MILLWORK

SHEET NUMBER:
ID 3.5

FINISH LEGEND			
MARK	MANUFACTURER	MODEL, NAME & COLOR	SIZE & SPEC
CPT-1	TARKETT	COLLECTION: ASSERTIVE SERIES; STYLE: ASSERTIVE ACTION 04837; COLOR: CHROMIUM 26201	WALK OFF CARPET; SIZE: 24" 24" TILE; INSTALLATION: MONOLITHIC
CPT-2A	TARKETT	COLLECTION: HIGH FREQUENCY; STYLE: VIBRATION 11838; COLOR: RHYTHM 38309	SIZE: POWERBOND 6' ROLLS
CPT-2B	TARKETT	COLLECTION: HIGH FREQUENCY; STYLE: PEACE 11837; COLOR: RHYTHM 38309	SIZE: 24" X 24" TILES
G-1	MAPEI	COLOR: 107 IRON	TO BE USED WITH T-1 AND T-2
LVT-1	TARKETT	COLLECTION: CONTOUR; STYLE: PCWT NATURAL WALNUT; COLOR: ALLEGHENY; EMBOSS: TK	SIZE: 6" X 36"; INSTALLATION: RANDOM LENGTH STARTERS
M-1	FOCAL POINT	COLLECTION: SEEM 1 SUSPENDED UNLIT BAFFLE; COLOR: CHARCOAL GRAY (CHG)	SIZE: 8" H X 8' L
M-2	MDC ACOUSTICAL SOLUTIONS	COLLECTION: ZINTRA BAFFLE SYSTEM; STYLE: BOLT; COLOR: COBALT; QTY: 16	SIZE: 48" X 48" KIT; INSTALLATION: SURFACE MOUNTED TO CEILING
PL-1	WILSONART	COLOR: WALNUT HEIGHTS 7965K-12; SOFTGRAIN FINISH	
PL-2	WILSONART	COLOR: UPTOWN WALNUT 7971K-12	
PT-1	SHERWIN WILLIAMS	COLOR: SW 7001 MARSHMALLOW	GENERAL WALL AND CEILING PAINT
PT-2	SHERWIN WILLIAMS	COLOR: SW 7067 CITYSCAPE	DOOR FRAME AND ACCENT PAINT
PT-3	SHERWIN WILLIAMS	COLOR: SW 6966 BLUEBLOOD	ACCENT PAINT
QS-1	VICOSTONE	COLOR: DOLCE VITA BQ8590	THICKNESS: 20MM (3/4"); FINISH: POLISHED
RB-1	TARKETT	COLOR: TG2 SHARK FIN CG	4" H; 120' COILS
T-1	ATLAS CONCORDE	COLLECTION: HERO; COLOR: 610010005268 SILVER	SIZE: 12" X 24" TILE; INSTALL: 1/3 OFFSET; EXPOSED EDGE TO RECEIVE SCHLUTEER JOLLY TRIM
T-2	ATLAS CONCORDE	COLLECTION: HERO; COLOR: 610010005268 SILVER	SIZE: 11 2/3" X 11 2/3" LINEAR MOSAIC; INSTALL: VERTICAL; EXPOSED EDGE TO RECEIVE SCHLUTEER JOLLY TRIM
TB-1	ATLAS CONCORDE	COLLECTION: HERO; COLOR: 610010005268 SILVER	SIZE: 12" X 24" TILE CUT TO A 6" X 24". EXPOSED EDGE TO RECEIVE SCHLUTEER JOLLY TRIM
WD-1	ART FOR EVERYDAY (OR APPROVED EQUAL)	CUSTOM FLEXIBLE REEDED TAMBOUR PANELS; SPECIES: WHITE OAK	SIZE PER MILLWORK DETAILS

TYPICAL MILLWORK CONSTRUCTION NOTES	
MARK	NOTE:
CABINETS	
A	OPEN CABINETS: 3/4" MDF CORE WITH VERTICAL GRADE PLASTIC LAMINATE ON ALL EXPOSED SURFACES.
B	CARCASS: 3/4" BLACK MELAMINE WITH .5MM PVC TAPE EDGEBANDING. LAMINATE FINISHED BOTTOMS ON WALL CABINETS.
C	BACKS: DADO INSET, FOUR SIDES CAPTURED 1/4" BLACK MELAMINE.
D	TOP RAILS (STRETCHERS): 3/4" X 3-1/2" HARDWOOD WITH PLASTIC LAMINATE EDGEBAND.
E	SECONDARY RAILS (STRETCHERS): 3/4" MELAMINE WITH PLASTIC LAMINATE EDGEBAND.
F	SHELVES: 3/4" BLACK MELAMINE WITH PLASTIC LAMINATE EDGEBAND TO MATCH CABINET.
G	DOOR & DRAWER FACES: 3/4" MDF CORE WITH VERTICAL GRADE PLASTIC LAMINATE EDGEBAND AND FACE (BOTH SIDES)
H	ADJUSTABLE SHELVES TO BE SUPPORTED WITH METAL PINS IN 5MM HOLES DRILLED IN SIDEWALLS OF CABINET; SPACED 1" O.C. CREATE NOTCH FOR SHELF PULL TO REST INTO TO PREVENT SHELF FROM SLIDING ON PINS; TYP.
DRAWERS	
I	DRAWERS TO HAVE PLYWOOD DRAWER BOX WITH CLEAR FINISH; TOP EDGES UNBANDED. DADO INSET, FOUR SIDES CAPTURED, 1/4" PLYWOOD BOTTOMS, GLUED & PINNED.
J	DRAWER FRONTS MOUNTED WITH TWO (2) DRILL MORTISED ADJUSTERS. DRAWER PULL HOLES DRILLED THROUGH DRAWER FRONT AND BOX AFTER FIELD ADJUSTMENT. PULLS BECOME SECONDARY FASTENING OF DRAWER FRONT TO DRAWER BOX.
HINGES	
K	EUROPEAN STYLE, 125 DEGREE OPENING, CONCEALED, SELF-CLOSING. TWO (2) HINGES PER DOOR UP TO 36". THREE (3) HINGES PER DOOR 36" - 72". FOUR (4) HINGES PER DOOR OVER 72".
DRAWER SLIDES	
L	FULTER 100LB TELESCOPING FULL EXTENSION TYPE SLIDES; OR APPROVED EQUAL.
PULLS	
M	SEE FINISH OR HARDWARE LEGEND FOR DRAWER AND CABINET PULLS
OTHER	
N	ALL REVEALS TO BE PAINTED BLACK UNLESS OTHERWISE NOTED.
NOTES:	
1	PROVIDE SOFT CLOSE HARDWARE ON ALL CABINET DOORS AND DRAWERS
2	ANY EXPOSED CABINET ENDS (NOT DYING INTO WALLS) SHALL BE FINISHED TO MATCH CABINET FRONTS
3	CONTRACTOR SHALL ADHERE TO AWI "CUSTOM GRADE" AS A GUIDELINE FOR QUALITY OF INSTALLATION REQUIREMENTS
4	CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE INTERIOR DESIGNER
5	PARTICAL BOARD AND ORIENTED STRAND BOARD ARE **NOT** PERMITTED
6	ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION
7	KEYING OF LOCKS TO BE VERIFIED WITH OWNER PRIOR TO FABRICATION
8	**GROMMET LOCATIONS TO BE CONFIRMED WITH OWNER PRIOR TO DRILLING BY MILLWORK CONTRACTOR**

GENERAL NOTES

1. WHERE A SURFACE IS TO BE PAINTED, PROVIDE THE FOLLOWING FINISHES, UNLESS OTHERWISE NOTED.
   - HOLLOW METAL DOORS AND FRAMES: ALKYD ENAMEL SEMI-GLOSS
   - WOOD DOORS AND FRAMES: ALKYD ENAMEL SEMI-GLOSS
   - GYPSUM BOARD WALLS: EGGSHELL
   - GYPSUM BOARD CEILINGS AND SOFFITS: FLAT
   - ALL WOOD TRIM AND MILLWORK: ALKYD ENAMEL SEMI-GLOSS

2. ALL ITEMS IN OR LOCATED ON A WALL OR CEILING (I.E. ELECTRICAL PANELS, FIRE PROTECTION CABINETS, GRILLS, CLOSURES, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE COLOR, SEMI-GLOSS ALKYD ENAMEL, UNLESS NOTED OTHERWISE OR OTHER MANUFACTURER FINISHES ARE SPECIFIED.

3. ALL GYPSUM BOARD WALLS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

4. ALL WOOD DOORS TO BE MASONITE NATURAL BIRCH; STAIN: COCOA BEAN UNLESS OTHERWISE NOTED.

5. ALL DOOR FRAMES AND CASED OPENINGS TO BE PAINTED PT-2 UNLESS OTHERWISE NOTED.

6. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

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No.	Description	Date

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PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
SCHEDULES

SHEET NUMBER:
ID 4.0

CDI solutions

GENERAL MECHANICAL NOTES:

1. ALL INSTALLATION OF DUCTWORK IS TO TAKE PRECEDENCE OVER THE INSTALLATION OF ALL PLUMBING LINES (EXCEPT GRADE SENSITIVE LINES), AND ELECTRICAL CONDUIT, MECHANICAL CONTRACTOR TO COORDINATE IN FIELD WITH ALL DISCIPLINES PRIOR AND DURING CONSTRUCTION.
2. MECHANICAL CONTRACTOR TO PROVIDE INSULATED SHEET METAL PLENUM OF REAR OF SUPPLY GRILLE AND TAP INTO SIDE OF PLENUM WITH BRANCH DUCT. REFER TO DRAWINGS FOR SIZE OF BRANCH DUCT. CONTRACTOR TO USE THIS SETUP ONLY WHEN THE CEILING SPACE DOES NOT ALLOW FOR A SMOOTH ROUND RADIUS ELBOW DOWN TO SUPPLY GRILLE. REFER TO TYPICAL DETAIL.
3. FLEXIBLE DUCT SHALL NOT PENETRATE ANY WALLS UNLESS SUBMITTED ON FOR PRIOR APPROVAL TO BOTH THE ARCHITECT AND THE MECHANICAL ENGINEER.
4. SHEET METAL DUCTWORK SHALL NOT BE SHOP FABRICATED UNTIL FIELD MEASURMENTS HAVE BEEN VERIFIED BY MECHANICAL CONTRACTOR.
5. ALL CONDENSATE LINES SHALL BE INSULATED, THIS PROJECT. INSULATION TO BE CELLULAR FOAM UNLESS OTHERWISE NOTED IN SPECIFICATIONS. ALL CONDENSATE LINES TO BE INSULATED COPPER. REFER TO SCHEDULES FOR SIZES. SUPPORT CONDENSATE DRAIN WITH UNISTRUT PIPE SUPPORT EVERY 4'–0" AND AT EVERY TURN. PROVIDE NEOPRENE SLEEVE BETWEEN UNISTRUT AND COPPER CONDENSATE LINE. SUPPORTS NOT SHOWN FOR CLARITY.
6. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON EXACT LOCATION OF ALL FLOOR/HUB DRAINS AS NOT TO CONFLICT WITH MECHANICAL EQUIPMENT AND EQUIPMENT PADS. FLOOR DRAIN LOCATION BASED ON EQUIPMENT ON DRAWINGS. IF DIFFERENT EQUIPMENT IS USED ON JOB PLUMBING CONTRACTOR SHALL COORDINATE NEW FLOOR/HUB DRAIN LOCATION AS NOT TO CONFLICT WITH NEW EQUIPMENT.
7. MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ON LOCATION OF ALL FIRE WALL PENETRATIONS BY DUCT. MECHANICAL CONTRACTOR TO PROVIDE 2 HR FIRE DAMPER IN DUCT, TYPICAL ALL FIREWALL PENETRATIONS. GENERAL CONTRACTOR TO FRAME OUT AS REQUIRED FOR DUCTS TO PENETRATE FIREWALL. REFER TO DRAWINGS FOR EXACT LOCATION. REFER TO ARCHITECTURAL LIFE SAFETY PLANS OR AS NOTED ON DRAWINGS, REFER TO SHEET LS1.0. CONTRACTOR SHALL ALSO REFER TO ALL ADDENDA AND COORDINATE WITH LIFE SAFETY SHEETS THAT ARE REVISED DURING THE ADDENDA PERIOD.
8. ALL EQUIPMENT SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS SO AS TO MAINTAIN GUARANTEES, PROVIDE ADDITIONAL SUPPORTS, DRAINS, EQUIPMENT, ETC. TO CONFORM TO MANUFACTURERS RECOMMENDED INSTALLATION. CONTRACTOR IS TO PROVIDE AND INSTALL ALL SUPPORTS AND HANGERS THAT ARE REQUIRED FOR A PROPER INSTALLATION.
9. DUCTWORK & PIPING RUNS ARE SHOWN DIAGRAMMATICALLY. MECHANICAL CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED.
10. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN THE ELECTRICAL AND OTHER TRADES, ESPECIALLY COORDINATION CONCERNING PENETRATIONS OF THE WALLS AND FLOORS WITH PIPE AND DUCTWORK.
11. ALL MODEL NUMBERS SHOWN FOR SPECIFIC MANUFACTURER'S REPRESENT THE TYPE AND QUALITY OF EQUIPMENT TO BE USED. SUBMIT FOR PRIOR APPROVAL ANY EQUIPMENT BEFORE BIDDING.
12. COORDINATE ALL UNDERGROUND PIPE (SEWER, GAS, WATER, ETC.) WORK WITH EXISTING UNDERGROUND WORK EG. FEEDER CIRCUITS, SEWER, GAS, TELEPHONE, WATER, DRAINAGE (ETC.) LOCATE ALL UNDERGROUND UTILITIES BEFORE WORK TO THIS PROJECT. MARKED UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO PLACE BACK IN ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT. **UNMARKED UTILITIES DAMAGED WILL BE REPAIRED BY THE CONTRACTOR.**
13. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH ALL OTHER DIVISIONS. SHOULD CONFLICTS ARISE WHICH CANNOT BE CORRECTED WITH MINOR DEVIATIONS. THE CONTRACTOR SHALL CALL THESE CONFLICTS TO THE DESIGNER'S ATTENTION BEFORE PROCEEDING. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND/OR MOUNTING DETAILS SHOWN WITH MODIFICATIONS OF SAME AS REQUIRED TO SUIT FINISHED CONDITIONS.
14. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE MECHANICAL EQUIPMENT AS SHOWN OR DETAILED BY THE CONTRACT DOCUMENTS FOR THIS PROJECT. WHERE SPACE OR SPARE DEVICES ARE SHOWN, CONTRACTOR SHALL PROVIDE.
15. MECHANICAL CONTRACTOR SHALL PROVIDE PERMANENT LAMINATED LABELS FOR ALL EQUIPMENT THIS PROJECT (I.E. NEW/EXISTING HVAC UNITS, EXHAUST FANS, ETC.). LABELING SHALL BE A MINIMUM OF 3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND. LABELS SHALL BE CONSTRUCTED OF MINIMUM 1" WIDE BY LENGTH AS REQUIRED LAMINATED PLASTIC SECURELY FASTENED TO DEVICE WITH STAINLESS STEEL HARDWARE. PRESSURE SENSITIVE "STICK ON" LABELS SHALL NOT BE ALLOWED.
16. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND PIPE PENETRATIONS (WALL, FLOOR) WITH ALL OTHER DISCILPLINES IN FIELD PRIOR TO INSTALLATION.
17. REFER TO ARCHITECT FOR MOUNTING HEIGHT OF ALL SIDEWALL GRILLES & REGISTERS.
18. THE USE OF THE TERM "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL THE ASSOCIATED DEVICE OR EQUIPMENT, COMPLETE AND READY FOR THE INTENDED USE".
19. CONTRACTOR SHALL BE AWARE THAT SPACE IS LIMITED THIS PROJECT. CONTRACTOR SHALL CAREFULLY REVIEW THE SPACE PROVIDED FOR THE DUCTWORK AND PIPE THIS PROJECT AND MAKE REQUIRED ALLOWANCES FOR THE SIZE OF MECHANICAL EQUIPMENT TO BE PROVIDED BEFORE BIDDING.
20. **MANUAL VOLUME DAMPER ACCESS IN INACCESSIBLE LOCATIONS:**
    1. WHERE MANUAL VOLUME DAMPERS ARE LOCATED IN INACCESSIBLE LOCATIONS (I.E ABOVE HARD GYPSUM CEILINGS OR HIGHER THAN 4'–0" ABOVE AN ACCESSIBLE CEILING TILE), CONTRACTOR TO PROVIDE AND INSTALL YOUNG REGULATOR 12 VOLT DC POWER/BALANCE SYSTEM. THE BALANCE SYSTEM CONSISTS OF A DAMPER, PULSE ACTUATOR, CAT 5 CABLE, WALL OR CEILING PLATE, AND HAND HELD POWER PACK. CONTRACTOR TO INSTALL WALL/CEILING ACCESS PORT ON WALL WITHIN MECHANICAL ROOM OF CLOSETS PROXIMITY TO MANUAL DAMPER. ALL ACCESS PORTS TO BE PROPERLY LABELED NUMERICALLY BY RESPECTIVE AIR SYSTEM & ROOM THAT THE DAMPER(S) SERVE. COORDINATE WITH MECHANICAL ENGINEER PRIOR TO LABELING.
    2. TYPICAL ALL INACCESSIBLE MANUAL VOLUME DAMPERS.
    3. REFER TO ARCHITECTURAL SHEETS A1.10 FOR REFLECTED CEILING PLAN.
    4. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS WHERE MANUAL VOLUME DAMPERS ARE REQUIRED.
    5. REFER TO DETAIL #9 SHEET M4.1.
    6. ROUND ELECTRONIC BALANCING DAMPER WITH POSITION INDICATOR SHALL BE YOUNG REGULATOR MODEL EBD.
    7. RECTANGULAR ELECTRONIC BALANCING DAMPER WITH POSITION INDICATOR SHALL BE YOUNG REGULATOR MODEL EBDR.
21. NO FLEX DUCT ALLOWED IN EXHAUST, RETURN, & FRESH AIR DUCT SYSTEMS.
22. ALL FIRE DAMPERS ARE TO BE RATED AT 2 HR. UNLESS OTHERWISE NOTED ON PLANS, THIS PROJECT. SEAL ALL FIRE WALL PENETRATIONS (DUCT, PIPE, ETC.) WITH UL–LISTED FIRE CAULK.
23. ALL EXPOSED EQUIPMENT TO BE PAINTED, REFER TO ENGINEER/ARCHITECT FOR COLOR SELECTION. PAINTING/COLOR SELECTION TO BE DONE IN FIELD DURING CONSTRUCTION.
24. DRAWINGS BASED ON EQUIPMENT SPECIFIED. SHOULD OTHER EQUIPMENT BE USED, IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE ALL STRUCTURAL (ROOF PENETRATIONS, ETC.) AND ELECTRICAL (WIRE SIZES, ETC.) DIFFERENCES WITH ALL OTHER DISCIPLINES AS TO AVOID ANY CONFLICTS PRIOR TO CONSTRUCTION. COLOR SELECTION TO BE BY ARCHITECT.
25. ALL EXPOSED DUCTWORK SHALL BE OF PAINT GRIP GALVANIZED SHEETMETAL UNLESS OTHERWISE NOTED ON DRAWINGS.
26. ALL ROUND DUCT SHALL BE MINIMUM 26 GA. AS PER SMACNA STANDARDS. TYPICAL ALL ROUND DUCT.
27. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
28. MECHANICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF ALL GRILLES WITH NEW LIGHTS TO BE INSTALLED PRIOR TO CONSTRUCTION.
29. ALL DUCTWORK SEPARATED BY THE SYMBOL "/" DESIGNATES OVAL DUCTWORK AND ALL DUCTWORK SEPARATED BY "x" DESIGNATES RECTANGULAR DUCTWORK.
30. PROVIDE ELECTRICAL DISCONNECTS AT ALL MECHANICAL EQUIPMENT. COORDINATE WITH ELECTRICIAN PRIOR TO BID TO ENSURE ALL REQUIRED LABOR/MATERIAL IS INCLUDED IN BID FOR A COMPLETE AND WORKING SYSTEM.
31. IF REQUESTED BY OWNER/ARCHITECT, THE CONTRACTOR IS TO PROVIDE & INSTALL CLEAR LOCK BOX COVERS FOR THERMOSTATS/HUMIDISTATS AND SENSORS AS MANUFACTURED BY KELE (WWW.KELE.COM).
32. MECHANICAL CONTRACTOR TO INSTALL ALL DUCT SLEEVES (IF APPLICABLE) IN WALLS ABOVE CEILINGS AS HIGH AS POSSIBLE. DUCT SLEEVE TO EXTEND 24" PAST WALL PENETRATION, BOTH SIDES.
33. SUBMISSION OF BID DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE. SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
34. COORDINATE WITH ENGINEER ON FAN CURVE ORIENTATION AT AIR HANDLING UNITS PRIOR TO SUBMITTING PRIOR APPROVAL.
35. SUCCESSFULLY PRESSURE TEST ALL PIPING SYSTEMS. TEST SHALL BE PERFORMED AS NOTED IN SPECIFICATIONS (OR PER LOCAL CODE/JURISDICATION, WHICHEVER IS MOST STRICT). REPAIR AND RETEST AS REQUIRED UNITL SYSTEMS PROVE TIGHT.
36. THE CONTRACTOR SHALL PROVIDE TRANSITIONS FROM REAR OF ALL GRILLES TO BRANCH DUCT AS REQUIRED. REFER TO CONSTRUCTION DOCUMENTS FOR SIZES OF ALL GRILLES AND BRANCH DUCTS.
37. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
38. PRIOR TO SUBMITTING EQUIPMENT, MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES. JOB DESIGNED AROUND EQUIPMENT WITH SPECIFIED MODEL NUMBERS IN SCHEDULE, OTHER EQUIPMENT SUBJECT TO REJECTION DUE TO TIGHT SPACE CONSTRAINTS, THIS PROJECT.
39. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE ARCHITECT/OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
40. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
42. THE ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS UPON WHICH THE CONTRACT DOCUMENTS ARE BASED MAY BE INACCURATE OR INCOMPLETE. THE CONTRACTOR SHALL COORDINATE ALL INSTALLATION REQUIREMENTS WITH THE MOST CURRENT TO DATE SEALED ARCHITECTURAL CONTRACT DOCUMENTS AND MODIFY AS REQUIRED.

COORDINATION DRAWINGS:
THE CONTRACTOR SHALL SUBMIT TO ARCHITECT, **"NO LATER THAN 30 DAYS AFTER WORK HAS COMMENCED ON SITE"**, ENTIRE FACILITY SYSTEM LAYOUTS AT A SCALE NOT LESS THAN 1/4"=1'–0" SHOWING THE LAYOUT OF THE ACTUAL EQUIPMENT, PIPING, MATERIAL, ETC. TO BE USED AND ALL NECESSARY CLEARANCES. THIS DRAWINGS SHALL BE COMPREHENSIVE OF ALL TRADES AS TO ELIMINATE CONFLICTS. THE CONTRACTOR WILL BE RESPONSIBLE TO VERIFY ALL ACCESS FOR MAINTENANCE AS REQUIRED BY THE MANUFACTURER. COORDINATION DRAWING TO BE REVIEWED BY ARCHITECT PRIOR TO THE INSTALLATION OF ANY & ALL MECHANICAL EQUIPMENT. CONTRACTOR TO COORDINATE THE PRELIMINARY SPRINKLER PLAN, DUCTWORK SHOP DRAWINGS, PIPING SYSTEMS, PLUMBING SYSTEMS & STEEL SHOP DRAWINGS (STRUCTURAL) PRIOR TO SUBMITTING TO DESIGN TEAM. CONTRACTOR TO INCLUDE ALL REQUIRED OFFSETS IN PLUMBING, PIPING & DUCTWORK IN BID. NO ADDITIONAL COST WILL BE PROVIDED TO CONTRACTOR FOR FAILURE TO COORDINATE ALL PIPING & DUCTWORK WITH STEEL. ALL SHOP DRAWINGS ARE TO INCLUDE SECTION CUTS OF ALL BUILDING AREAS FOR COORDINATION PURPOSES.

THERMAL DESIGN CONDITIONS

ROOM DESCRIPTION	INDOOR			OUTDOOR		
	SUMMER		WINTER	SUMMER		WINTER
	DB(°F)	RH(%)	DB(°F)	DB(°F)	WB(°F)	DB(°F)
ALL CONDITIONED SPACES	74°*	50%	70°*	95°	80°	20°

DB(°F) = DRY BULB
WB(°F) = WET BULB
RH(%) = RELATIVE HUMIDITY

*CONTRACTOR TO UTILIZE THESE INITIAL SET POINTS FOR HVAC SYSTEM(S) AT PROJECT COMPLETION. COORDINATE WITH OWNER ON EXACT TEMPERATURE SET POINTS DESIRED AND ADJUST.

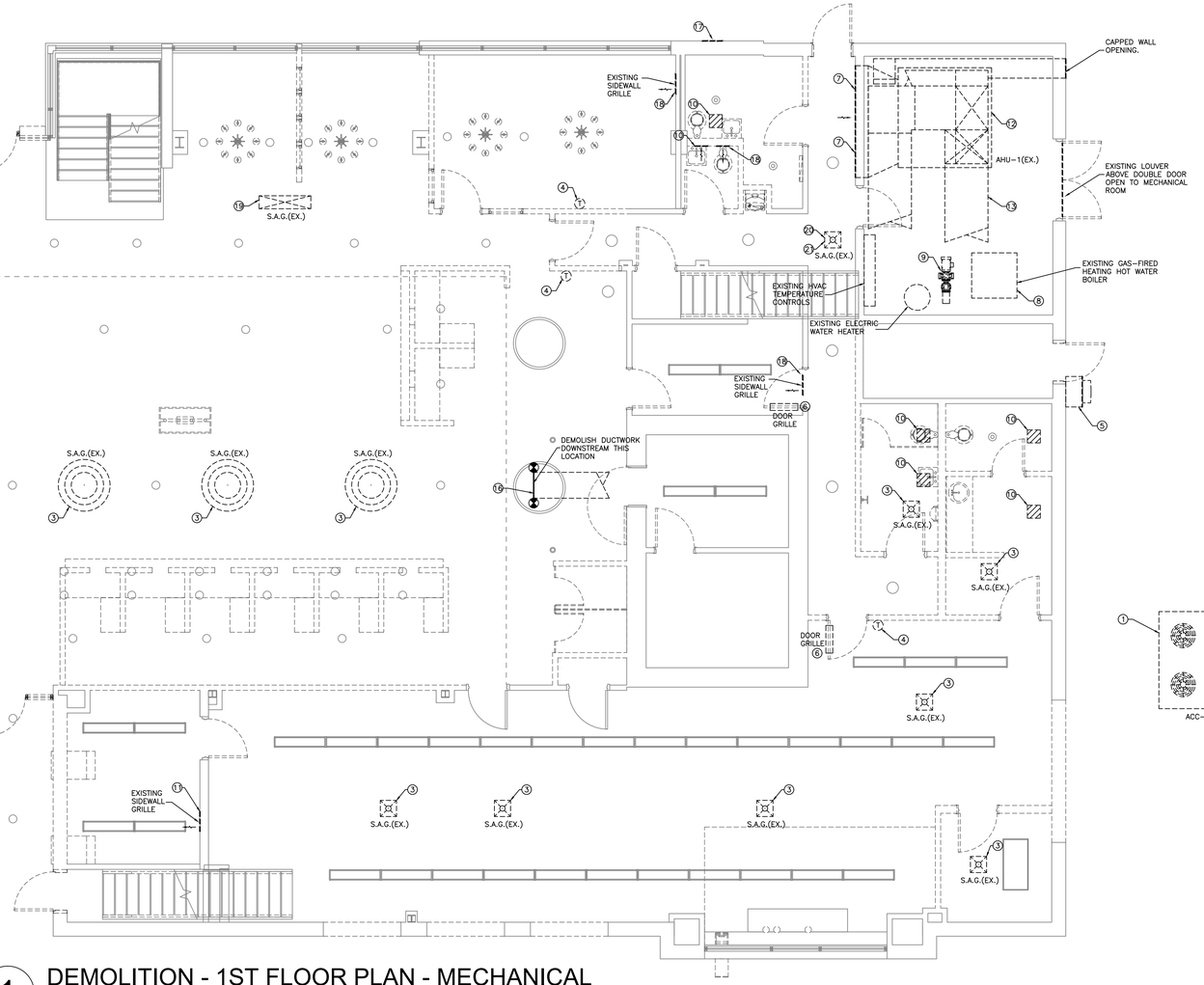
43. ADDITIONAL MECHANICAL NOTES:
    1. ALL WORK SHALL BE PER LOCAL AND NATIONAL CODES. REFER TO THE 2021 IMC, IPC AND THE 2021 IECC FOR SPECIFICS. READ THOROUGHLY ALL GENERAL NOTES PRIOR TO COMMENCING WORK. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AS WELL AS THE NATIONAL FIRE PROTECTION ASSOCIATION. INCLUDE COST OF PERMITS AND INSPECTIONS IN QUOTE.
    2. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE AND FIRE/SMOKE DAMPERS WITH ACCESS DOORS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. IN ADDITION, PROVIDE ACCESS PANELS OR DOORS AS REQUIRED FOR ALL DAMPERS, VALVES, CLEANOUTS, CONTROL DEVICES, ETC. ACCESS PANEL/DOOR SHALL MATCH CLASSIFICATION OF WALL AND/OR CEILING FIRE RATING. COORDINATE THE EXACT LOCATIONS OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC. WITH ARCHITECT'S REFLECTED CEILING PLANS AND AVOID CONFLICTS WITH PIPING, LIGHTING, POWER, FIRE PROTECTION, ETC. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS. COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC. WITH EXISTING CONDITIONS. AVOID CONFLICTS WITH EXISTING LIGHTS.
    3. ALL DUCTWORK SHALL BE INSTALLED TO COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE), LATEST EDITION. DUCT DIMENSIONS SHOWN ARE NET INSIDE CLEAR DIMENSIONS. CONTRACTOR SHALL PROVIDE AND INSTALL 1" CLOSED CELL FOAM INSULATION ON ALL CONDENSATE PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZED SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS.
    4. AIR BALANCE ALL EQUIPMENT, INCLUDING AIR HANDLING UNIT, DIFFUSERS, REGISTERS AND GRILLES TO THE AIR QUANTITIES AND TOLERANCES INDICATED ON THE DRAWINGS AND SCHEDULES.
    5. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER ACCEPTANCE OF WORK BY THE OWNER.
    6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING FOR HVAC AND SHALL PROVIDE AND INSTALL CONTROL WIRING RACEWAYS AND POWER WIRING FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
    7. ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO TRUNK OR BRANCH DUCTS WITH A MINIMUM OF ONE (1) WORM GEAR STAINLESS STEEL BAND, THREE SHEET METAL SCREWS AT EACH CONNECTION AND TAPED TO PROVIDE AN AIR TIGHT SEAL.
    8. DUCT HANGER STRAPS SHALL BE 1" NONMETALLIC WITH A 6" SADDLE (DO NOT COMPRESS THE INSULATION).
    9. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 3'–0" PROVIDED THE COMPLETE RUN OF FLEXIBLE DUCT IS ADEQUATELY SUPPORTED WITHOUT DISCERNIBLE CRIMPS OR SAGS TO APPROXIMATE LOSSES OF COMPARABLY SIZED HARD DUCT. CONTRACTOR SHALL PROVIDE AABC CERTIFIED TEST & BALANCE REPORT ADDRESSED HEREIN TO DEMONSTRATE EACH RUN MEETS AIR FLOW (CFM) SPECIFIED.
    10. INSTALL AIR VOLUME DAMPERS AT ALL BRANCH TO MAIN DUCT CONNECTIONS.
    11. THE CONTRACTOR SHALL CAREFULLY COORDINATE THE LOCATION OF ALL DUCTS, GRILLES, DIFFUSERS, ETC. WITH THE PLUMBING, ELECTRICAL AND FRAMING CONTRACTORS. PRIME COAT ALL STEEL HANGERS AND MECHANICAL SYSTEM SUPPORTS IN CONTACT WITH STRUCTURE WITH ZINC–RICH PRIMER. CONTRACTOR SHALL PROVIDE ALL NECESSARY SLEEVES AND HANGING DEVICES FOR INSTALLATION OF STRUCTURES, INSERTS, MECHANICAL EQUIPMENT, DUCTWORK AND PIPING, ETC.
    12. ALL RETURN AIR GRILLES SHALL BE EASILY REMOVABLE FOR CLEANING. INSTALL TURNING VANES IN SUPPLY DUCTWORK AT SQUARE ELBOWS, IF USED. DUCTWORK SHALL HAVE RIGHT–OF–WAY OVER ALL PLUMBING PIPES AND ELECTRICAL CONDUIT ETC. DO NOT RELOCATE DUCTWORK BY BUILDING OFFSETS UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL FIELD MEASURE ALL CONDITIONS AND BE RESPONSIBLE FOR COORDINATION AND FIT. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE. THE FIRST FIGURE OF RECTANGULAR DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS. THE CFM OF EACH DIFFUSER, REGISTER, ETC. IS INDICATED AS A NUMBER NEXT TO THE SYMBOL DESIGNATION ON THE DRAWINGS.
    13. THE CONTRACTOR SHALL COOPERATE FULLY BETWEEN ALL OTHER TRADES.
    14. ALL REFRIGERANT PIPING TO BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC TYPE ASTM C 534, TYPE I. COAT WITH UV INHIBITOR COATING (AEROCELL AEROCOAT).
    15. ALL MAIN RUNS OF HIDDEN DUCTWORK, UNLESS ANNOTATED AS RECTANGULAR, SHALL BE RIGID SPIRAL WOUND GALVANIZED METAL DUCT, INSULATED, SIZED, FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE. FLEX DUCT MAY BE USED AS QUALIFIED HEREIN. ALL EXPOSED DUCT WILL BE DOUBLE WALL SPIRAL WITH 1" INSULATION AND SIDEWALL REGISTERS AS SHOWN. DUCTWORK LAYOUTS ARE SCHEMATIC ONLY. ALL RISERS, DROPS AND OFFSETS REQUIRED (EVEN IF NOT SHOWN) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. DUCTWORK DIMENSIONS ARE INSIDE "CLEAR" DIMENSIONS AND DO NOT INCLUDE INSULATION. SEE SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS. WHERE STRUCTURAL OBSTRUCTIONS ARE ENCOUNTERED, DUCT DIMENSIONS MAY BE CHANGED TO PROVIDE DUCTS OF EQUAL AREAS WITH ASPECT RATIOS NO GREATER THAN 3 TO 1. IF THE ABOVE CRITERIA CANNOT BE MET, THE CONTRACTOR OR OWNER'S REPRESENTATIVE SHALL CONTACT THE ENGINEER TO WORK OUT AN ACCEPTABLE SOLUTION.
    16. THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL THERMOSTAT LOCATIONS WITH THE OWNER AND PROVIDE MANUFACTURER MATING PROGRAMMABLE THERMOSTATS AS NOTED IN SCHEDULE. ALL HVAC UNITS AND ACCESSORIES, AIR HANDLER SUPPORTS, SUPPLY REGISTERS, RETURN GRILLES, FILTERS AND THERMOSTATS FOR THE HEATING AND AIR CONDITIONING SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL SET UP ALL ROOFTOP, HVAC AND OUTDOOR CONDENSING UNITS & HEAT PUMP UNITS AND SHALL PROVIDE/INSTALL REFRIGERANT PIPING FOR ALL SPLIT REFRIGERATION SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC. AS REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT WHICH WILL NOT OVERLOAD THE STRUCTURAL MEMBERS. PRIME COAT ALL STEEL HANGERS AND MECHANICAL SYSTEM SUPPORTS IN CONTACT WITH STRUCTURE WITH ZINC–RICH PRIMER.
    17. AS REQUIRED, PROVIDE 3" EXT. FOIL JACKETED INSULATION ON ALL MISCELLANEOUS DUCTWORK RUN IN UNCONDITIONED SPACES, SEAL AIR TIGHT WITH MASTIC SEALER. USE NEOPRENE GASKETS AT ALL TAKEOFFS.
    18. CONTRACTOR UNDERSTANDS THAT THEY SHALL PROVIDE A COMPLETE AND FULLY FUNCTIONAL HVAC SYSTEM. ANY POTENTIAL OMISSIONS, REQUESTS FOR CLARIFICATION OR CONCERNS OVER CODE VIOLATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BID. THE SUBMISSION OF A BID FOR THIS WORK CONSTITUTES AN ACCEPTANCE THAT THE CONTRACTOR HAS HAD ALL INQUIRIES ANSWERED AND HAS FULLY EXAMINED ALL PROJECT DRAWINGS AND AGREES THEY ARE SUFFICIENTLY DETAILED TO ALLOW A LICENSED PROFESSIONAL CONTRACTOR TO INSTALL A COMPLETE AND FULLY FUNCTIONING HVAC SYSTEM WITHOUT ANY NEED FOR FURTHER CLARIFICATION ON THE PART OF THE OWNER OR ARCHITECT OR ENGINEER. FURTHER THE CONTRACTOR IN SUBMITTING A BID, AGREES TO PROVIDE, AT NO COST TO THE OWNER, ANY ADDITIONAL COMPONENTS REASONABLY OR UNREASONABLY REQUIRED TO RENDER THE SYSTEM FULLY FUNCTIONAL AND CODE COMPLIANT.
    19. HVAC SYSTEM AIR HANDLERS TO BE BALANCED TO WITHIN 5% SUPPLY AND EXHAUST VALUES AND ALL REGISTERS TO BE BALANCED TO 5% OF INDICATED REGISTER VALUES. ALL WORK TO BE PERFORMED BY PARTIES CERTIFIED BY AABC AND SHALL BE IN COMPLETE ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION, LATEST EDITION OR A COMPARABLE NATIONAL STANDARD, WITH EMPHASIS ON THOSE SECTIONS APPLICABLE TO AIR DISTRIBUTION BALANCING. CONTRACTOR IS TO PROVIDE ANY ADDITIONAL BALANCING DAMPERS REQUIRED TO BALANCE SYSTEM, AT NO COST TO THE OWNER, WHETHER SHOWN ON DRAWINGS OR NOT. PROVIDE AIR BALANCE REPORT ON STANDARD AABC FORMS INDICATING:
        a. QUANTITIES AND TEMPERATURE OF AIR AT EACH INLET/OUTLET FOR ALL EXHAUST, SUPPLY SYSTEM COMPONENTS.
        b. STATIC PRESSURE IN INCHES OF WATER AT EACH SYSTEM INTAKE AND DISCHARGE.
        c. R.P.M. OF EACH FAN AT MAX AND REDUCED CFM AIR FLOW (WHERE APPLICABLE).
        d. VOLTAGE, AMPERAGE OF ALL HVAC COMPONENTS (COMPRESSORS, FANS, HEATERS).
        THE COVER SHEET FOR THE TEST & BALANCE REPORT SHALL INCLUDE A PROJECT SPECIFIC AND DATED CERTIFICATION WITH THE T&B AGENTS SIGNATURE BELOW THAT ALL HVAC SYSTEM AND CONTROL COMPONENTS HAVE BEEN INSTALLED, AS SPECIFIED, AND HAVE BEEN TESTED TO ASSURE THAT ALL SUCH ELEMENTS ARE CALIBRATED, ADJUSTED AND IN PROPER WORKING CONDITION.
    20. THE SIGNED & DATED COPY OF THE T&B REPORT WITH THE PROJECT SPECIFIC CERTIFICATION REFERRED TO IN PARAGRAPH 19 ABOVE (AS WELL AS THE DOCUMENTATION ADDRESSED IN PARAGRAPH 22 BELOW) SHALL BE FURNISHED BY THE MECHANICAL OR GENERAL CONTRACTOR TO THE OWNER OR TENANT PRIOR TO APPLICATION FOR FINAL PAYMENT.
    21. DUCT PENETRATIONS OF ROOF, WALLS, FLOORS AND CEILINGS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING, FIRE RATING AND SOUND PROOFING, FOR WHICH THE ROOF, WALL OR FLOOR OR CEILING IS DESIGNED. REFER TO THE ARCHITECTURAL PLANS AS MATERIALS AND METHODS USED SHALL CONFORM TO THOSE SPECIFIED UNDER ARCHITECTURAL SECTIONS. COORDINATE AND OBTAIN LANDLORD APPROVAL PRIOR TO MAKING ANY PENETRATION THROUGH ROOFING SYSTEMS.
    22. CONTRACTOR SHALL PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO THE BUILDING OWNER THAT SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
        a. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS
        b. EQUIPMENT OPERATION AND MAINTENANCE MANUALS
        c. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS
        d. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
        e. A COMPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

ADDITIONAL GENERAL MECHANICAL NOTES:

1. REFER TO SHEET M2.1 FOR ALL MECHANICAL PLAN KEYNOTES.
2. CONTRACTOR TO COORDINATE ALL THERMOSTAT/HUMIDISTAT LOCATIONS WITH ALL MILLWORK, PAINTINGS, ETC. FIGURE IN BID RELOCATION OF THERMOSTATS/HUMIDISTATS IN BID AS PER OWNER TO ACCOMMODATE ALL OWNER FURNISH WALL COVERINGS.
3. PROVIDE YOUNG REGULATORS FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE HARD CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO GENERAL NOTE #20 SHEET M1.0.
4. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS (STRUCTURAL SYSTEMS, OTHER DISCIPLINES, ETC.) PRIOR TO CONSTRUCTING DUCTWORK/PIPING, NO EXCEPTION.

PRE–CONSTRUCTION TESTING & MEASUREMENT OF EXISTING HVAC "PRE–DEMOLITION MEASUREMENT REPORT":

PRIOR TO ANY AND ALL DEMOLITION, THE TAB CONTRACTOR IS TO TAKE READINGS (TOTAL AIRFLOW) OF ALL EXISTING HVAC AIR DEVICES (SUPPLY, RETURN, OUTSIDE AIR, & EXHAUST AIR) THAT ARE CURRENTLY SERVING THE EXISTING FACILITY. THE CONT



1 DEMOLITION - 1ST FLOOR PLAN - MECHANICAL

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

GENERAL MECHANICAL DEMOLITION NOTES:

1. OWNER TO HAVE FIRST RIGHT OF REFUSAL OF ALL REMOVED & DEMOLISHED EQUIPMENT/MATERIAL. UPON REFUSAL THE CONTRACTOR IS TO HAUL OFF SITE AS DEBRIS.
2. EXISTING AIR HANDLING UNITS & AIR COOLED CHILLER TO BE REMOVED AND HAULED OFF SITE AS DEBRIS. PROVIDE NEW DX SPLIT SYSTEMS. PROVIDE NEW REFRIGERANT PIPE & PIPE INSULATION (COAT EXTERIOR REFRIGERANT PIPE INSULATION WITH TWO (2) COAST OF UV INHIBITOR COATING AEROFLEX AEROCOAT).
3. WHERE NOTED, EXHAUST FANS, DUCTWORK, DUCT SUPPORTS, CONDENSATE PIPING, ETC. TO BE REMOVED AND HAULED OFF SITE AS DEBRIS.
4. DAMAGE TO ANY EXISTING EQUIPMENT TO REMAIN SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXISTING OPENINGS & OPENINGS AS A RESULT OF DEMOLITION SHALL BE PATCHED & SEALED TO MATCH EXISTING CONDITIONS. WHERE ROOF MOUNTED MECHANICAL ITEMS ARE REMOVED, CONTRACTOR TO PATCH RESULTANT OPENING(S) TO MATCH EXISTING. WHERE DUCTWORK IS REMOVED FROM DUCTWORK, CONTRACTOR TO PATCH RESULTANT OPENING WITH INSULATED SHEET METAL TO MATCH EXISTING CONDITIONS. WHERE DUCTWORK/GRILLES ARE REMOVED FROM GYPSUM WALLS, THE RESULTANT OPENING SHALL BE PATCHED TO MATCH EXISTING CONDITIONS.
6. NOT ALL EXISTING EQUIPMENT SHOWN ON PLANS. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT QUANTITIES AND LOCATIONS PRIOR TO BID.
7. CONTRACTOR TO COORDINATE ALL SYSTEM SHUTDOWNS WITH OWNER A MINIMUM OF 7 WORKING DAYS PRIOR TO DESIRED SHUTDOWN DATE.

PRE-CONSTRUCTION TESTING & MEASUREMENT OF EXISTING HVAC "PRE-DEMOLITION MEASUREMENT REPORT":

PRIOR TO ANY AND ALL DEMOLITION, THE TAB CONTRACTOR IS TO TAKE READINGS (TOTAL AIRFLOW) OF ALL EXISTING HVAC AIR DEVICES (SUPPLY, RETURN, OUTSIDE AIR, & EXHAUST AIR) THAT ARE CURRENTLY SERVING THE EXISTING FACILITY. THE CONTRACTOR SHALL PROVIDE A SINGLE LINE DRAWING SHOWING ALL AIR DEVICE LOCATIONS, AIR FLOWS OF RESPECTIVE AIR DEVICE, DUCTWORK ROUTING AND SIZES OF RESPECTIVE DUCTWORK. TOTAL AIRFLOW OF EACH OF THESE UNITS IS REQUIRED. MEASURED AIRFLOW WITHIN THE ENTIRE FACILITY ARE TO BE INCLUDED IN PRE-DEMOLITION TESTING & MEASUREMENT REPORT. CONTRACTOR TO DELIVER A REPORT OF THE EXISTING HVAC UNITS TO ARCHITECT/ENGINEER FOR REVIEW AND COMMENT PRIOR TO ANY & ALL DEMOLITION WORK. REPORT SHALL INCLUDE TOTAL AIRFLOW AT EACH UNIT, AND AIRFLOW ON A AIR DEVICE BY AIR DEVICE BASIS. THE PRE-DEMOLITION MEASUREMENT REPORT SHALL BE REVIEWED BY THE MECHANICAL ENGINEER AND MARKED UP WITH THE APPROPRIATE AIR FLOW RATES THAT ARE TO BE RE-BALANCED AT PROJECT COMPLETION.

CLEANING & ODOR/DUST CONTROL:

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN IN A CLEAN, ORDERLY, ODOR FREE, DUST FREE AND BUSINESSLIKE MANNER ALL AREAS AROUND THEIR WORK AND AREAS THAT THEY ACCESS FOR THE PURPOSE OF PERFORMING THEIR WORK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN AIR SCRUBBERS, DUST BARRIERS, HEPA FILTERED FANS, TEMPORARY WALLS AND DOORS AS REQUIRED TO CONTAIN ALL DUST & ODORS GENERATED BY THEIR ACTIVITIES.
3. ENTRY AREAS MUST BE VACUUMED AND MOPPED PRIOR TO (AND DURING) NORMAL BUSINESS HOURS.

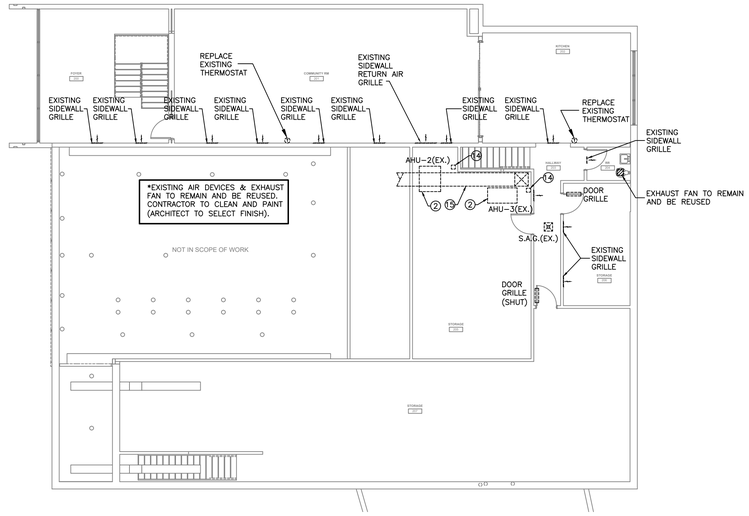
MECHANICAL DEMOLITION PLAN KEYNOTES: (X)

1. EXISTING AIR COOLED CHILLER, ASSOCIATED HOUSEKEEPING PAD, SUPPORTS, WIRING, PIPING, CONTROLS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
2. EXISTING AIR HANDLING UNIT, ASSOCIATED DUCTWORK, SUPPORTS, WIRING, PIPING, CONTROLS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
3. EXISTING DIFFUSER, BRANCH DUCTWORK, HANGERS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
4. EXISTING THERMOSTAT TO BE REMOVED AND HAULED OFF SITE AS DEBRIS. REFER TO RENOVATION PLAN FOR NEW THERMOSTAT & LOCATION. PROVIDE NEW WIRING FOR RELOCATED THERMOSTAT (WITHIN ½" EMT CONDUIT).
5. EXISTING EXHAUST FANS, SUPPORTS, DUCTWORK, WIRING, WALL SLEEVE, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS. PREP OPENING TO RECEIVE NEW LOUVER. PATCH RESULTANT OPENING TO MATCH EXISTING.
6. EXISTING DOOR GRILLE TO BE REMOVED AND HAULED OFF SITE AS DEBRIS.
7. EXISTING SIDEWALL RETURN AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW HEAVY DUTY GYM TYPE GRILLE (PRICE MODEL 96, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID.
8. EXISTING BOILER, ASSOCIATED HOUSEKEEPING PAD, SUPPORTS, WIRING, PIPING, CONTROLS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
9. EXISTING BOILER PUMP, ASSOCIATED HOUSEKEEPING PAD, SUPPORTS, WIRING, PIPING, CONTROLS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
10. EXISTING EXHAUST GRILLES/FANS, SUPPORTS, DUCTWORK, GRILLES, WIRING, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS. PATCH RESULTANT OPENING TO MATCH EXISTING.
11. EXISTING SIDEWALL SUPPLY AIR GRILLE, BRANCH DUCTWORK, HANGERS, ETC. TO BE REMOVED AND HAULED OFF SITE AS DEBRIS. PATCH RESULTANT OPENING TO MATCH EXISTING.
12. EXISTING MULTI-ZONE AIR HANDLING UNIT, SUPPORTS, WIRING, PIPING, CONTROLS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
13. EXISTING ZONE FROM MULTI-ZONE AIR HANDLING UNIT. CONTRACTOR TO DEMOLISH THE ENTIRE ZONE EXISTING DUCTWORK, FLEX DUCTWORK, AIR DEVICES, HANGERS, ETC. TO BE DEMOLISHED AND HAULED OFF SITE AS DEBRIS.
14. EXISTING ROOF HOOD & ROOF CURB TO BE REMOVED AND HAULED OFF SITE AS DEBRIS. PREP RESULTANT OPENING FOR INSTALLATION OF NEW ROOF HOOD ON PREFABRICATED ROOF CURB.
15. EXISTING DUCTWORK TO REMAIN AND BE REUSED. CLEAN DUCTWORK EXISTING DUCTWORK ASSOCIATED WITH EXISTING AIR HANDLING UNIT. REFER TO SPECIFICATION 230131 "DUCT CLEANING".
16. CONTRACTOR TO DEMOLISH EXISTING DUCTWORK BEYOND THIS LOCATION ABOVE EXISTING CEILING THAT IS TO BE REMOVED. PREP DUCTWORK TO CONNECT WITH NEW DUCTWORK, REFER TO RENOVATION PLAN.
17. SIDEWALL LOUVER/BACKDRAFT DAMPER. CONTRACTOR TO REMOVE LOUVER, & ASSOCIATED DUCTWORK. MODIFY OPENING FOR NEW SIDEWALL LOUVER.
18. EXISTING SIDEWALL SUPPLY AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW SIDEWALL GRILLE (PRICE MODEL 6200AL, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID. BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
19. EXISTING CEILING DIFFUSER TO REMAIN AND BE REUSED. CONTRACTOR TO PAINT/FINISH (COLOR TO BE SELECTED BY ARCHITECT). BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
20. CURRENT EXISTING LOCATION OF EXISTING AIR DEVICE THAT IS TO REPLACED WITH NEW AIR DEVICE.
21. CONTRACTOR TO REPLACE EXISTING BRANCH DUCT TO EXISTING CEILING DIFFUSER AND REPLACE WITH FLEXIBLE DUCTWORK TO NEW CEILING DIFFUSER. FIELD ROUTE NEW FLEXIBLE ROUND BRANCH DUCTWORK FROM AIR DEVICE AS REQUIRED TO RESULTANT OPENING IN MAIN TRUNK DUCTWORK (MODIFY RESULTANT OPENING AS REQUIRED). PROVIDE 45° LOW LOSS BRANCH DUCT TAP CONNECTION WITH DAMPER (FLEXMASTER MODEL ST0DB03) AT NEW BRANCH DUCT CONNECTION TO EXISTING TRUNK DUCT, DAMPER CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE DAMPER SHALL HAVE A 2" RAISED HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARINGS ARE REQUIRED WHERE THE ROD PENETRATES THE BARREL. SIZE OF NEW ROUND BRANCH DUCTWORK TO BE GREATER THAN OR EQUAL TO THE EXISTING BRANCH DUCTWORK FREE AREA (FOR BIDDING PURPOSES FIGURE IN BID 8"ø BRANCH DUCT). FIGURE IN BID REDUCING TRANSITION ON REAR OF NEW SUPPLY AIR DIFFUSER. INSULATE AL DUCTWORK. BALANCE TO CFM AS DIRECTED BY MECHANICAL ENGINEER AFTER THE CONTRACTOR PROVIDES "PRE-DEMOLITION MEASUREMENT REPORT". REFER TO DETAIL #2 SHEET M4.2.

MECHANICAL AIRSIDE LEGEND

NOTE: ALL SYMBOLS IN THIS LEGEND ARE NOT NECESSARILY FOUND ON THE PLANS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING SUPPLY AIR DEVICE		EXH OR RETURN AIR DUCT 90° ELBOW DOWN
	CEILING RETURN AIR OR EXHAUST AIR DEVICE	R	DUCT RISE (CHANGE OF ELEVATION)
T B	CEILING SUPPLY AIR SLOT OR SINGLE LIGHT TROFFER	D	DUCT DROP (CHANGE OF ELEVATION)
	SUPPLY AIR DUCT		STANDARD BRANCH FOR SA. OR RA. DUCT
	RETURN AIR OR EXH. AIR DUCT		AIR DEVICE TYPE (TYPE-A)
	DUCT WORK	A-150	AIR QUANTITY (150 CFM)
	90 ELBOW W/TURNING VANE DUCT	RE=2/M-2	REFER TO SHEET M-2 DETAIL NUMBER (2)
	VOLUME DAMPER OR MANUAL DAMPER, RECT. & ROUND DUCT; "M.V.D."		
M	MOTORIZED DAMPER OR AUTO DAMPER		EQUIPMENT
FD	FIRE DAMPER, RATED FOR 2 HR., TYPICAL	TS	SENSOR FOR THERMOSTAT
SD	SMOKE DAMPER	T	THERMOSTAT
FS	COMBINATION FIRE AND SMOKE DAMPER	F	FIRESTAT
BD	BACK DRAFT DAMPER	H	HUMIDISTAT
	SUPPLY AIR DUCT 90° ELBOW UP	HS	SENSOR FOR HUMIDISTAT IN R/A DUCT
	EXH OR RETURN AIR DUCT 90° ELBOW UP	TM	HVAC TIMER
	SUPPLY AIR DUCT 90° ELBOW DOWN		AIR EXTRACTOR
	M.V.D. IN DUCT DROP		45° DUCT LOW LOSS TAP WITH DAMPER
YR	YOUNG REGULATOR, RE: NOTE #20, THIS SHEET	AFF	ABOVE FINISHED FLOOR
EA & E/A	EXHAUST AIR	RE:	REFER TO
OA & O/A	OUTSIDE AIR	M-601	BLOWUP SHEET NUMBER / BLOWUP DETAIL NUMBER
M-402 2	SECTION SHEET NUMBER / SECTION DETAIL NUMBER		CONNECT NEW WORK TO EXISTING
	EXISTING DUCTWORK TO REMAIN	"TAG"(EX.)	EXISTING DUCT SIZES, EQUIPMENT TAGS, ETC.
	EXISTING EQUIPMENT		EXISTING DUCT TO BE REMOVED
T	EXISTING THERMOSTAT		



2 DEMOLITION - 2ND FLOOR PLAN - MECHANICAL

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

STATE OF LOUISIANA
HENRY P. EYRE, III
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DISTRICT
PROFESSIONAL ENGINEER
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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:

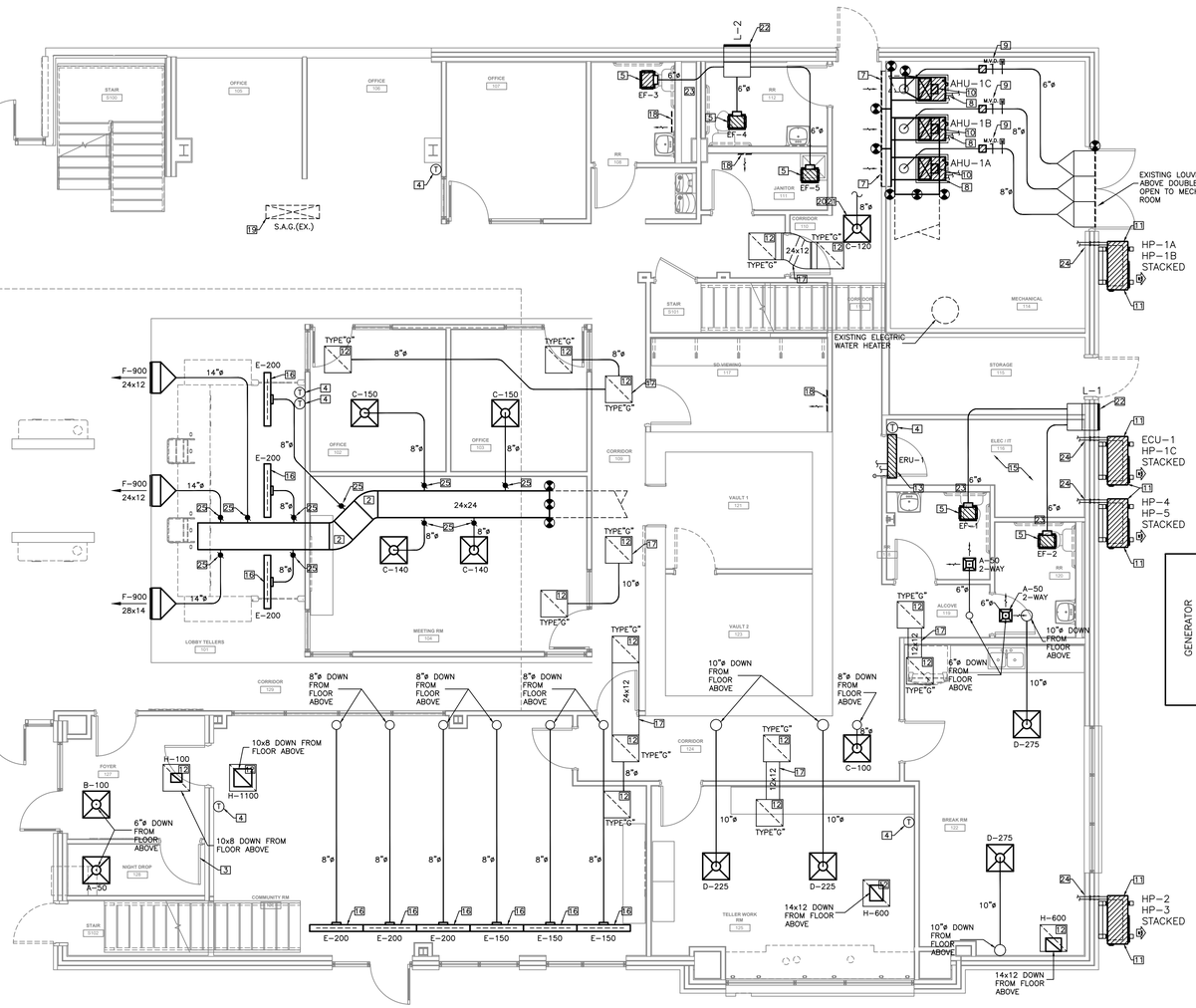
MECHANICAL DEMOLITION FLOOR PLANS & MECHANICAL LEGEND

SHEET NUMBER:

M1.1

EYRE ENGINEERING

PRINTED: 2.16.2026



GENERAL MECHANICAL NOTES:

1. WHERE MANUAL VOLUME DAMPERS ARE LOCATED IN INACCESSIBLE LOCATIONS (I.E ABOVE HARD GYPSUM CEILINGS OR HIGH WITHIN TRUSS SYSTEM), CONTRACTOR TO PROVIDE AND INSTALL UNITED ENERTECH 12 VOLT DC POWER/BALANCE SYSTEM. THE BALANCE SYSTEM CONSISTS OF A DAMPER, PULSE ACTUATOR, CAT 5 CABLE, WALL OR CEILING PLATE, AND HAND HELD POWER PACK. CONTRACTOR TO INSTALL WALL/CEILING ACCESS PORT AT RESPECTIVE AIR HANDLING UNIT. TYPICAL ALL INACCESSIBLE MANUAL VOLUME DAMPERS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN. REFER TO MECHANICAL DRAWINGS FOR ALL LOCATIONS OF MANUAL VOLUME DAMPERS. LABEL WALL/CEILING PLATE TO WHAT MANUAL VOLUME DAMPER RESPECTIVE PLATE IS CONNECTED TO. REFER TO DETAIL #9 SHEET M4.1.

PRE-CONSTRUCTION TESTING & MEASUREMENT OF EXISTING HVAC "PRE-DEMOLITION MEASUREMENT REPORT":

PRIOR TO ANY AND ALL DEMOLITION, THE TAB CONTRACTOR IS TO TAKE READINGS (TOTAL AIRFLOW) OF ALL EXISTING HVAC AIR DEVICES (SUPPLY, RETURN, OUTSIDE AIR, & EXHAUST AIR) THAT ARE CURRENTLY SERVING THE EXISTING FACILITY. THE CONTRACTOR SHALL PROVIDE A SINGLE LINE DRAWING SHOWING ALL AIR DEVICE LOCATIONS, AIR FLOWS OF RESPECTIVE AIR DEVICE, DUCTWORK ROUTING AND SIZES OF RESPECTIVE DUCTWORK. TOTAL AIRFLOW OF EACH OF THESE UNITS IS REQUIRED. MEASURED AIRFLOW WITHIN THE ENTIRE FACILITY ARE TO BE INCLUDED IN PRE-DEMOLITION TESTING & MEASUREMENT REPORT. CONTRACTOR TO DELIVER A REPORT OF THE EXISTING HVAC UNITS TO ARCHITECT/ENGINEER FOR REVIEW AND COMMENT PRIOR TO ANY & ALL DEMOLITION WORK. REPORT SHALL INCLUDE TOTAL AIRFLOW AT EACH UNIT, AND AIRFLOW ON A AIR DEVICE BY AIR DEVICE BASIS. THE PRE-DEMOLITION MEASUREMENT REPORT SHALL BE REVIEWED BY THE MECHANICAL ENGINEER AND MARKED UP WITH THE APPROPRIATE AIR FLOW RATES THAT ARE TO BE RE-BALANCED AT PROJECT COMPLETION.

CLEANING & ODOR/DUST CONTROL:

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN IN A CLEAN, ORDERLY, ODOR FREE, DUST FREE AND BUSINESSLIKE MANNER ALL AREAS AROUND THEIR WORK AND AREAS THAT THEY ACCESS FOR THE PURPOSE OF PERFORMING THEIR WORK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN AIR SCRUBBERS, DUST BARRIERS, HEPA FILTERED FANS, TEMPORARY WALLS AND DOORS AS REQUIRED TO CONTAIN ALL DUST & ODORS GENERATED BY THEIR ACTIVITIES.
3. ENTRY AREAS MUST BE VACUUMED AND MOPPED PRIOR TO (AND DURING) NORMAL BUSINESS HOURS.

MECHANICAL PLAN KEYNOTES:

1. MANUAL VOLUME DAMPER WITH STAND-OFF BRACKET, ADJUSTABLE & LOCKABLE, TYPICAL. REFER TO DETAIL #2 SHEET M4.1.
2. SMOOTH RADIUS ELBOW WITH TURNING VANES, REFER TO DETAIL #16 SHEET M4.1.
3. MINIMUM 3/4" DOOR UNDERCUT. UNDERCUT BY GENERAL CONTRACTOR
4. THERMOSTAT/HUMIDISTAT, TYPICAL. THERMOSTAT/HUMIDISTAT SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY, COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT ON ALL MILLWORK, ETC. FOR CONFLICTS, IF THERMOSTAT IS RELOCATED PROVIDE NEW LOCATION TO MECHANICAL ENGINEER FOR APPROVAL. OWNER TO APPROVE ALL THERMOSTAT LOCATIONS PRIOR TO ROUGH IN, NO EXCEPTION (IF CONTRACTOR DOES NOT GET OWNER APPROVAL, THE THERMOSTATS ARE SUBJECT TO RELOCATION AT A LATER DATE AT THE CONTRACTORS EXPENSE). PROVIDE AUDIO/VISUAL ALARM ON WALL (12" BELOW FINISHED CEILING), INTERCONNECT WITH SMOKE DETECTORS AT RESPECTIVE AIR HANDLING UNIT(S). ALL THERMOSTAT/HUMIDISTAT WIRING WITHIN WALLS TO BE IN 1/2" CONDUIT WITH LONG SWEEP ELBOWS AT TOP OF CONDUIT WITHIN CEILING SPACE.
5. CABINET EXHAUST FAN, FIELD ROUTE BRANCH EXHAUST DUCT UP THRU ROOF TO ROOF HOOD ON PREFABRICATED ROOF CURB (TRANSITION FROM DUCT TO ROOF HOOD THROAT AS REQUIRED). COORDINATE EXACT LOCATION OF ROOF HOOD WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION. PROVIDE SPRING LOADED BACKDRAFT DAMPER AT DISCHARGE OF EXHAUST FAN. MAINTAIN 10'-0" FROM ANY & ALL FRESH AIR INLETS. INSULATE ENTIRE EXHAUST SYSTEM AS PER SPECIFICATIONS. REFER TO DETAIL #12 SHEET M4.1.
6. DUCT UP THRU ROOF TO ROOF HOOD ON PREFABRICATED ROOF CURB. REFER TO DETAIL #1 SHEET M4.1. REFER TO SCHEDULES. TRANSITION FROM DUCT TO ROOF HOOD THROAT AS REQUIRED.
7. EXISTING SIDEWALL RETURN AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW HEAVY DUTY GYM TYPE GRILLE (PRICE MODEL 96, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID.
8. DIRECT EXPANSION VERTICAL AIR HANDLING UNIT. UNIT TO BE INSTALLED ON 2"X2"X¼"(WELDED TO 4"X4"X⅜" BOTTOM PLATE BOLTED TO FINISHED FLOOR) ANGLE IRON SUPPORTS 30" FROM MECHANICAL ROOM FLOOR AS TO ALLOW FOR BOTTOM RETURN AIR DUCTING. BOTTOM OF AIR UNIT TO BE APPROX. 30" FROM FINISHED FLOOR (VERIFY ON SITE ACTUAL DIMS PRIOR TO INSTALLATION). CONTRACTOR TO ROUTE CONDENSATE LINE TO (REFER TO SCHEDULE FOR CONDENSATE LINE SIZE) FLOOR/HUB DRAIN. REFER TO PLUMBING DRAWINGS FOR FLOOR/HUB DRAIN LOCATION. PROVIDE RETURN AIR DUCT AS SHOWN (PROVIDE MANUAL VOLUME DAMPER IN VERTICAL RETURN AIR DUCT DROP), DOWN TO FULL SIZE PLENUM OFF BOTTOM RETURN AIR OPENING OF UNIT. PROVIDE INLINE FLOAT SWITCH SCREWED INTO AUXILIARY DRAIN CONNECTION AT AIR HANDLING UNIT CABINET, RESPECTIVE CONDENSING UNIT TO DE-ENERGIZE WHEN RESPECTIVE FLOAT SWITCH IS TRIPPED. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN AIR DUCT PRIOR TO OUTSIDE AIR DUCT CONNECTION. ROUTE FRESH AIR DUCT AS SHOWN FROM RETURN AIR PLENUM TO WALL ROOF HOOD, BALANCE TO CFM SPECIFIED ON SCHEDULES. PROVIDE FILTER HOUSING, MANUAL VOLUME DAMPER & MOTORIZED DAMPER (24V ACTUATOR, REFER TO SPECIFICATIONS FOR OPERATION) IN FRESH AIR DUCT. MAINTAIN 10'-0" MINIMUM DISTANCE BETWEEN ALL FRESH AIR INTAKES & EXHAUST OUTLETS. REFER TO TYPICAL AIR HANDLING UNIT DETAIL #6 SHEET M4.2.
9. MANUAL VOLUME DAMPER, FILTER HOUSING, & MOTORIZED DAMPER (24VAC), LOCATED IN FRESH AIR DUCT.
10. CONTRACTOR TO PROVIDE GLOBAL PLASMA SOLUTIONS SELF CLEANING NEEDLEPOINT BIPOLAR ION GENERATOR MODEL GPS-DM48-AC (24VAC LOW VOLTAGE CIRCUIT), MOUNT ON EXISTING SUPPLY AIR DUCT (ION GENERATOR TO BE LOCATED IN AIR STREAM FOR INDOOR AIR QUALITY) PRIOR TO ANY BRANCH DUCT TAKEOFFS TO SUPPLY GRILLES. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WIRE TO HVAC UNIT TERMINAL STRIP.
11. HEAT PUMP UNIT (REFER TO DETAIL #4 SHEET M4.4) ON PREFABRICATED WALL MOUNTED SUPPORTS, SIZED AS REQUIRED. PROVIDE REFRIGERANT PIPE SUPPORTS MAXIMUM 4'-0" AND AT ALL CHANGES IN DIRECTION, REFER TO DETAIL #2 SHEET M4.4. SEAL ALL PENETRATIONS INTO BUILDING AIR TIGHT, REFER TO DETAIL #6 SHEET M4.4 FOR REFRIGERANT PIPE PENETRATION AT EXTERIOR WALL. ROUTE REFRIGERANT LINES THRU EXTERIOR WALL (WITHIN COMMON WALL SLEEVE), UP EXTERIOR WALL TO RESPECTIVE INDOOR UNIT. PAINT ALL EXTERIOR REFRIGERANT INSULATION WITH UV INHIBITOR PAINT. PROVIDE MINIMUM ONE (1) WALL PIPE SUPPORT FOR REFRIGERANT PIPING AT EACH HEAT PUMP UNIT (PROVIDE MORE WHEN SHOWN), REFER TO DETAIL #1 SHEET M4.4.
12. TYPICAL RETURN AIR GRILLE ASSEMBLY. PROVIDE INSULATED R/A BOOT PLENUM ON REAR OF R/A GRILLE (PLENUM TO BE FULL SIZE OF GRILLE, REFER TO PLAN FOR TYPE, HEIGHT OF PLENUM AS REQUIRED IN ORDER TO MAKE BRANCH DUCT CONNECTIONS), TYPICAL. REFER TO SEE SCHEDULES FOR GRILLE SIZES. REFER TO DETAIL #10 SHEET M4.1. COORDINATE BOOT/RETURN AIR DUCT WITH STRUCTURE.
13. WALL MOUNTED DUCT-LESS MINI-SPLIT SYSTEM (WITH INSTALLATION PLATE) LOCATED ON WALL ABOVE DOOR. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE OUTDOOR HEAT PUMP. FIELD ROUTE CONDENSATE LINE TO HUB DRAIN (REFER TO PLUMBING PLAN FOR HUB DRAIN LOCATION). MECHANICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF MINI-SPLIT SYSTEM WITH ALL EQUIPMENT TO BE INSTALLED IN EQUIPMENT ROOM, DO NOT INSTALL MINI-SPLIT ABOVE ANY PANEL OR ELECTRICAL DEVICE. MECHANICAL CONTRACTOR TO FIGURE IN BID POSSIBLE INCREASE IN PIPE OFFSETS AND PIPE TO ACCOMMODATE NEW LOCATION OF DUCT-LESS SPLIT SYSTEM. REFER TO DETAIL #7 SHEET M4.4.
14. AIR HANDLING UNIT (WITH REFRIGERANT COILS). SUSPEND AIR HANDLING UNIT FROM STRUCTURE ABOVE (PROVIDE ADDITIONAL ANGLE IRON SUPPORTS FROM STRUCTURE TO SUPPORT UNIT, COORDINATE WITH STRUCTURAL SUPPORT TO ENSURE A COMPLETE STRUCTURAL SUPPORT SYSTEM TO HANG UNIT FROM). FIELD ROUTE INSULATED CONDENSATE DRAIN LINE FROM UNIT (AS REQUIRED) TO EXISTING DRAINAGE SYSTEM DRAIN (REFER TO SCHEDULES FOR PIPE SIZE). PROVIDE 4" HIGH AUXILIARY DRAIN PAN (16 GA. G90 GALVANIZED STEEL; SEAMLESS), SIZE AS REQUIRED, UNDER ENTIRE UNIT, EQUIP WITH FLOAT SWITCH (INTERCONNECT FLOAT SWITCH WITH RESPECTIVE HEAT PUMP UNIT, HEAT PUMP UNIT TO SHUT OFF WHEN FLOAT SWITCH IS TRIPPED). SUPPORT PLATFORM TO EXTEND ALL AROUND UNIT, WITH 42" CLEARANCE IN FRONT (CONTROL SIDE) FOR SERVICING. RETURN AIR PLENUM ON INLET OF AIR HANDLING UNIT TO BE INTERNALLY INSULATED. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN AIR DUCT PRIOR TO OUTSIDE AIR DUCT CONNECTION. ROUTE FRESH AIR DUCT AS SHOWN FROM RETURN AIR PLENUM TO WALL ROOF HOOD, BALANCE TO CFM SPECIFIED ON SCHEDULES. PROVIDE FILTER HOUSING, MANUAL VOLUME DAMPER & MOTORIZED DAMPER (24V ACTUATOR, REFER TO SPECIFICATIONS FOR OPERATION) IN FRESH AIR DUCT. MAINTAIN 10'-0" MINIMUM DISTANCE BETWEEN ALL FRESH AIR INTAKES & EXHAUST OUTLETS. REFER TO TYPICAL AIR HANDLING UNIT DETAIL #5 SHEET M4.2.
15. ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION AND TYPE OF EQUIPMENT. COORDINATE DUCTWORK/PIPING AS NOT TO BE ROUTED OVER PANELS. REFER TO DETAIL #4 SHEET M4.3.
16. TYPICAL LINEAR AIR DEVICE, REFER TO DETAIL #5 SHEET M4.4, & SCHEDULES.
17. AIR TRANSFER ASSEMBLY, REFER TO DETAIL #3 SHEET M4.4.
18. EXISTING SIDEWALL SUPPLY AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW SIDEWALL GRILLE (PRICE MODEL 6200AL, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID. BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
19. EXISTING CEILING DIFFUSER TO REMAIN AND BE REUSED. CONTRACTOR TO PAINT/FINISH (COLOR TO BE SELECTED BY ARCHITECT). BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
20. CURRENT EXISTING LOCATION OF EXISTING AIR DEVICE THAT IS TO REPLACED WITH NEW AIR DEVICE.
21. CONTRACTOR TO REPLACE EXISTING BRANCH DUCT TO EXISTING CEILING DIFFUSER AND REPLACE WITH FLEXIBLE DUCTWORK TO NEW CEILING DIFFUSER. FIELD ROUTE NEW FLEXIBLE ROUND BRANCH DUCTWORK FROM AIR DEVICE AS REQUIRED TO RESULTANT OPENING IN MAIN TRUNK DUCTWORK (MODIFY RESULTANT OPENING AS REQUIRED). PROVIDE 45° LOW LOSS BRANCH DUCT TAP CONNECTION WITH DAMPER (FLEXMASTER MODEL STODBO3) AT NEW BRANCH DUCT CONNECTION TO EXISTING TRUNK DUCT, DAMPER CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE DAMPER SHALL HAVE A 2" RAISED HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARINGS ARE REQUIRED WHERE THE ROD PENETRATES THE BARREL. SIZE OF NEW ROUND BRANCH DUCTWORK TO BE GREATER THAN OR EQUAL TO THE EXISTING BRANCH DUCTWORK FREE AREA (FOR BIDDING PURPOSES FIGURE IN BID 8"ø BRANCH DUCT). FIGURE IN BID REDUCING TRANSITION ON REAR OF NEW SUPPLY AIR DIFFUSER. INSULATE AL DUCTWORK. BALANCE TO CFM AS DIRECTED BY MECHANICAL ENGINEER AFTER THE CONTRACTOR PROVIDES "PRE-DEMOLITION MEASUREMENT REPORT". REFER TO DETAIL #2 SHEET M4.2.
22. WEATHERPROOF EXTERIOR WALL LOUVER, REFER TO ARCHITECT FOR INSTALLATION HEIGHT AND COLOR SELECTION; SEAL ALL AROUND AIR AND WATER TIGHT. PROVIDE BIRDSCREEN ON REAR OF LOUVER. PROVIDE PLENUM ON REAR OF LOUVER FULL SIZE OF LOUVER DUCT CONNECTION AND TRANSITION AS SHOWN ON PLAN. PROVIDE SHEET METAL DIVIDERS AS SHOWN. REFER TO DETAILS #1 & #2 SHEET M4.3.
23. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON DUCT PENETRATION THRU WALL, THIS AREA. REFER TO TYPICAL DUCT PENETRATION THRU WALL DETAIL. COORDINATE DUCT PENETRATIONS THRU WET WALL IN RESTROOM AREAS PRIOR TO INSTALLATION TO AVOID ANY POSSIBLE CONFLICTS WITH SANITARY SEWER AND WATER LINES. SEAL ALL AROUND PENETRATION AIR TIGHT.
24. CONTRACTOR TO REMOVE INTERIOR WALL FOR THE INSTALLATION OF NEW REFRIGERANT PIPING. PATCH WALL TO MATCH EXISTING.
25. 45° LOW LOSS BRANCH DUCT TAP CONNECTION WITH DAMPER (FLEXMASTER MODEL STODBO3), DAMPER CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE DAMPER SHALL HAVE A 2" RAISED HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARINGS ARE REQUIRED WHERE THE ROD PENETRATES THE BARREL. TYPICAL ALL BRANCH DUCTS. TYPICAL.
26. FIELD REROUTE INSULATED CONDENSATE PIPING FROM AIR HANDLING UNIT TO NEW HUB DRAIN ON EXISTING GALVANIZED PLUMBING VENT AND TURN DOWN. PROVIDE & INSTALL NEW HUB DRAIN ON EXISTING PLUMBING VENT. REFER TO DETAIL #14 SHEET M4.1.
27. FIELD REROUTE INSULATED CONDENSATE PIPING FROM AIR HANDLING UNIT TO NEW HUB DRAIN ON EXISTING GALVANIZED ROOF DRAIN PIPING AND TURN DOWN. PROVIDE & INSTALL NEW HUB DRAIN AT EXISTING PIPING. REFER TO DETAIL #14 SHEET M4.1.

1 RENOVATION - 1ST FLOOR PLAN - MECHANICAL
SCALE: 3/16" = 1'-0"

STATE OF LOUISIANA
HENRY R. EYRE, III
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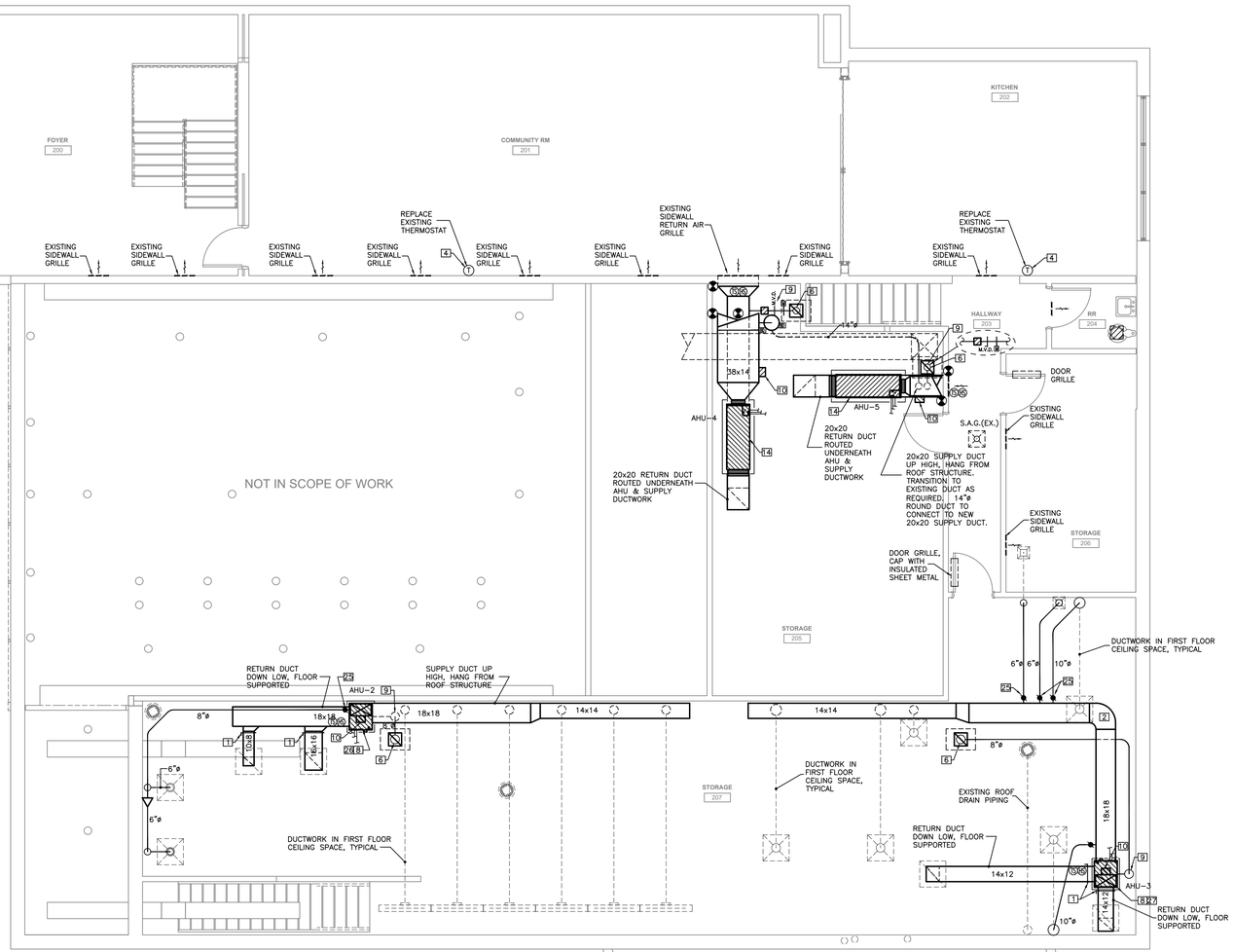
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RENOVATION - 1ST FLOOR PLAN - MECHANICAL

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PRINTED: 2.16.2026



1 RENOVATION - 2ND FLOOR PLAN - MECHANICAL

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

GENERAL MECHANICAL NOTES:

1. WHERE MANUAL VOLUME DAMPERS ARE LOCATED IN INACCESSIBLE LOCATIONS (I.E ABOVE HARD GYPSUM CEILINGS OR HIGH WITHIN TRUSS SYSTEM), CONTRACTOR TO PROVIDE AND INSTALL UNITED ENERTECH 12 VOLT DC POWER/BALANCE SYSTEM. THE BALANCE SYSTEM CONSISTS OF A DAMPER, PULSE ACTUATOR, CAT 5 CABLE, WALL OR CEILING PLATE, AND HAND HELD POWER PACK. CONTRACTOR TO INSTALL WALL/CEILING ACCESS PORT AT RESPECTIVE AIR HANDLING UNIT. TYPICAL ALL INACCESSIBLE MANUAL VOLUME DAMPERS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN. REFER TO MECHANICAL DRAWINGS FOR ALL LOCATIONS OF MANUAL VOLUME DAMPERS. LABEL WALL/CEILING PLATE TO WHAT MANUAL VOLUME DAMPER RESPECTIVE PLATE IS CONNECTED TO. REFER TO DETAIL #9 SHEET M4.1.

PRE-CONSTRUCTION TESTING & MEASUREMENT OF EXISTING HVAC "PRE-DEMOLITION MEASUREMENT REPORT":

PRIOR TO ANY AND ALL DEMOLITION, THE TAB CONTRACTOR IS TO TAKE READINGS (TOTAL AIRFLOW) OF ALL EXISTING HVAC AIR DEVICES (SUPPLY, RETURN, OUTSIDE AIR, & EXHAUST AIR) THAT ARE CURRENTLY SERVING THE EXISTING FACILITY. THE CONTRACTOR SHALL PROVIDE A SINGLE LINE DRAWING SHOWING ALL AIR DEVICE LOCATIONS, AIR FLOWS OF RESPECTIVE AIR DEVICE, DUCTWORK ROUTING AND SIZES OF RESPECTIVE DUCTWORK. TOTAL AIRFLOW OF EACH OF THESE UNITS IS REQUIRED. MEASURED AIRFLOW WITHIN THE ENTIRE FACILITY ARE TO BE INCLUDED IN PRE-DEMOLITION TESTING & MEASUREMENT REPORT. CONTRACTOR TO DELIVER A REPORT OF THE EXISTING HVAC UNITS TO ARCHITECT/ENGINEER FOR REVIEW AND COMMENT PRIOR TO ANY & ALL DEMOLITION WORK. REPORT SHALL INCLUDE TOTAL AIRFLOW AT EACH UNIT, AND AIRFLOW ON A AIR DEVICE BY AIR DEVICE BASIS. THE PRE-DEMOLITION MEASUREMENT REPORT SHALL BE REVIEWED BY THE MECHANICAL ENGINEER AND MARKED UP WITH THE APPROPRIATE AIR FLOW RATES THAT ARE TO BE RE-BALANCED AT PROJECT COMPLETION.

CLEANING & ODOR/DUST CONTROL:

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN IN A CLEAN, ORDERLY, ODOR FREE, DUST FREE AND BUSINESSLIKE MANNER ALL AREAS AROUND THEIR WORK AND AREAS THAT THEY ACCESS FOR THE PURPOSE OF PERFORMING THEIR WORK.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN AIR SCRUBBERS, DUST BARRIERS, HEPA FILTERED FANS, TEMPORARY WALLS AND DOORS AS REQUIRED TO CONTAIN ALL DUST & ODORS GENERATED BY THEIR ACTIVITIES.
3. ENTRY AREAS MUST BE VACUUMED AND MOPPED PRIOR TO (AND DURING) NORMAL BUSINESS HOURS.

MECHANICAL PLAN KEYNOTES:

1. MANUAL VOLUME DAMPER WITH STAND-OFF BRACKET, ADJUSTABLE & LOCKABLE, TYPICAL. REFER TO DETAIL #2 SHEET M4.1.
2. SMOOTH RADIUS ELBOW WITH TURNING VANES, REFER TO DETAIL #16 SHEET M4.1.
3. MINIMUM 3/4" DOOR UNDERCUT. UNDERCUT BY GENERAL CONTRACTOR
4. THERMOSTAT/HUMIDISTAT, TYPICAL. THERMOSTAT/HUMIDISTAT SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY, COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT ON ALL MILLWORK, ETC. FOR CONFLICTS, IF THERMOSTAT IS RELOCATED PROVIDE NEW LOCATION TO MECHANICAL ENGINEER FOR APPROVAL. OWNER TO APPROVE ALL THERMOSTAT LOCATIONS PRIOR TO ROUGH IN, NO EXCEPTION (IF CONTRACTOR DOES NOT GET OWNER APPROVAL, THE THERMOSTATS ARE SUBJECT TO RELOCATION AT A LATER DATE AT THE CONTRACTORS EXPENSE). PROVIDE AUDIO/VISUAL ALARM ON WALL (12" BELOW FINISHED CEILING), INTERCONNECT WITH SMOKE DETECTORS AT RESPECTIVE AIR HANDLING UNIT(S). ALL THERMOSTAT/HUMIDISTAT WIRING WITHIN WALLS TO BE IN 1/2" CONDUIT WITH LONG SWEEP ELBOWS AT TOP OF CONDUIT WITHIN CEILING SPACE.
5. CABINET EXHAUST FAN, FIELD ROUTE BRANCH EXHAUST DUCT UP THRU ROOF TO ROOF HOOD ON PREFABRICATED ROOF CURB (TRANSITION FROM DUCT TO ROOF HOOD THROAT AS REQUIRED). COORDINATE EXACT LOCATION OF ROOF HOOD WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION. PROVIDE SPRING LOADED BACKDRAFT DAMPER AT DISCHARGE OF EXHAUST FAN. MAINTAIN 10'-0" FROM ANY & ALL FRESH AIR INLETS. INSULATE ENTIRE EXHAUST SYSTEM AS PER SPECIFICATIONS. REFER TO DETAIL #12 SHEET M4.1.
6. DUCT UP THRU ROOF TO ROOF HOOD ON PREFABRICATED ROOF CURB, REFER TO DETAIL #1 SHEET M4.1. REFER TO SCHEDULES. TRANSITION FROM DUCT TO ROOF HOOD THROAT AS REQUIRED.
7. EXISTING SIDEWALL RETURN AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW HEAVY DUTY GYM TYPE GRILLE (PRICE MODEL 96, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID.
8. DIRECT EXPANSION VERTICAL AIR HANDLING UNIT. UNIT TO BE INSTALLED ON 2"X2"X¼"(WELDED TO 4"X4"X¼" BOTTOM PLATE BOLTED TO FINISHED FLOOR) ANGLE IRON SUPPORTS 30" FROM MECHANICAL ROOM FLOOR AS TO ALLOW FOR BOTTOM RETURN AIR DUCTING. BOTTOM OF AIR UNIT TO BE APPROX. 30" FROM FINISHED FLOOR (VERIFY ON SITE ACTUAL DIMS PRIOR TO INSTALLATION). CONTRACTOR TO ROUTE CONDENSATE LINE TO (REFER TO SCHEDULE FOR CONDENSATE LINE SIZE) FLOOR/HUB DRAIN. REFER TO PLUMBING DRAWINGS FOR FLOOR/HUB DRAIN LOCATION. PROVIDE RETURN AIR DUCT AS SHOWN (PROVIDE MANUAL VOLUME DAMPER IN VERTICAL RETURN AIR DUCT DROP), DOWN TO FULL SIZE PLENUM OFF BOTTOM RETURN AIR OPENING OF UNIT. PROVIDE INLINE FLOAT SWITCH SCREWED INTO AUXILIARY DRAIN CONNECTION AT AIR HANDLING UNIT CABINET, RESPECTIVE CONDENSING UNIT TO DE-ENERGIZE WHEN RESPECTIVE FLOAT SWITCH IS TRIPPED. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN AIR DUCT PRIOR TO OUTSIDE AIR DUCT CONNECTION. ROUTE FRESH AIR DUCT AS SHOWN FROM RETURN AIR PLENUM TO WALL ROOF HOOD, BALANCE TO CFM SPECIFIED ON SCHEDULES. PROVIDE FILTER HOUSING, MANUAL VOLUME DAMPER & MOTORIZED DAMPER (24V ACTUATOR, REFER TO SPECIFICATIONS FOR OPERATION) IN FRESH AIR DUCT. MAINTAIN 10'-0" MINIMUM DISTANCE BETWEEN ALL FRESH AIR INTAKES & EXHAUST OUTLETS. REFER TO TYPICAL AIR HANDLING UNIT DETAIL #6 SHEET M4.2.
9. MANUAL VOLUME DAMPER, FILTER HOUSING, & MOTORIZED DAMPER (24VAC), LOCATED IN FRESH AIR DUCT.
10. CONTRACTOR TO PROVIDE GLOBAL PLASMA SOLUTIONS SELF CLEANING NEEDLEPOINT BIPOLAR ION GENERATOR MODEL GPS-DM48-AC (24VAC LOW VOLTAGE CIRCUIT). MOUNT ON EXISTING SUPPLY AIR DUCT (ION GENERATOR TO BE LOCATED IN AIR STREAM FOR INDOOR AIR QUALITY) PRIOR TO ANY BRANCH DUCT TAKEOFFS TO SUPPLY GRILLES. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WIRE TO HVAC UNIT TERMINAL STRIP.
11. HEAT PUMP UNIT (REFER TO DETAIL #4 SHEET M4.4) ON PREFABRICATED WALL MOUNTED SUPPORTS, SIZED AS REQUIRED. PROVIDE REFRIGERANT PIPE SUPPORTS MAXIMUM 4'-0" AND AT ALL CHANGES IN DIRECTION, REFER TO DETAIL #2 SHEET M4.4. SEAL ALL PENETRATIONS INTO BUILDING AIR TIGHT, REFER TO DETAIL #6 SHEET M4.4 FOR REFRIGERANT PIPE PENETRATION AT EXTERIOR WALL. ROUTE REFRIGERANT LINES THRU EXTERIOR WALL (WITHIN COMMON WALL SLEEVE), UP EXTERIOR WALL TO RESPECTIVE INDOOR UNIT. PAINT ALL EXTERIOR REFRIGERANT INSULATION WITH UV INHIBITOR PAINT. PROVIDE MINIMUM ONE (1) WALL PIPE SUPPORT FOR REFRIGERANT PIPING AT EACH HEAT PUMP UNIT (PROVIDE MORE WHEN SHOWN), REFER TO DETAIL #1 SHEET M4.4.
12. TYPICAL RETURN AIR GRILLE ASSEMBLY. PROVIDE INSULATED R/A BOOT PLENUM ON REAR OF R/A GRILLE (PLENUM TO BE FULL SIZE OF GRILLE, REFER TO PLAN FOR TYPE, HEIGHT OF PLENUM AS REQUIRED IN ORDER TO MAKE BRANCH DUCT CONNECTIONS), TYPICAL. REFER TO SEE SCHEDULES FOR GRILLE SIZES. REFER TO DETAIL #10 SHEET M4.1. COORDINATE BOOT/RETURN AIR DUCT WITH STRUCTURE.
13. WALL MOUNTED DUCT-LESS MINI-SPLIT SYSTEM (WITH INSTALLATION PLATE) LOCATED ON WALL ABOVE DOOR. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE OUTDOOR HEAT PUMP. FIELD ROUTE CONDENSATE LINE TO HUB DRAIN (REFER TO PLUMBING PLAN FOR HUB DRAIN LOCATION). MECHANICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF MINI-SPLIT SYSTEM WITH ALL EQUIPMENT TO BE INSTALLED IN EQUIPMENT ROOM, DO NOT INSTALL MINI-SPLIT ABOVE ANY PANEL OR ELECTRICAL DEVICE. MECHANICAL CONTRACTOR TO FIGURE IN BID POSSIBLE INCREASE IN PIPE OFFSETS AND PIPE TO ACCOMMODATE NEW LOCATION OF DUCT-LESS SPLIT SYSTEM. REFER TO DETAIL #7 SHEET M4.4.
14. AIR HANDLING UNIT (WITH REFRIGERANT COILS). SUSPEND AIR HANDLING UNIT FROM STRUCTURE ABOVE (PROVIDE ADDITIONAL ANGLE IRON SUPPORTS FROM STRUCTURE TO SUPPORT UNIT, COORDINATE WITH STRUCTURAL SUPPORT TO ENSURE A COMPLETE STRUCTURAL SUPPORT SYSTEM TO HANG UNIT FROM). FIELD ROUTE INSULATED CONDENSATE DRAIN LINE FROM UNIT (AS REQUIRED) TO EXISTING DRAINAGE SYSTEM DRAIN (REFER TO SCHEDULES FOR PIPE SIZE). PROVIDE 4" HIGH AUXILIARY DRAIN PAN (16 GA. G90 GALVANIZED STEEL; SEAMLESS), SIZE AS REQUIRED, UNDER ENTIRE UNIT. EQUIP WITH FLOAT SWITCH INTERCONNECT FLOAT SWITCH WITH RESPECTIVE HEAT PUMP UNIT. HEAT PUMP UNIT TO SHUT OFF WHEN FLOAT SWITCH IS TRIPPED). SUPPORT PLATFORM TO EXTEND ALL AROUND UNIT, WITH 42" CLEARANCE IN FRONT (CONTROL SIDE) FOR SERVICING. RETURN AIR PLENUM ON INLET OF AIR HANDLING UNIT TO BE INTERNALLY INSULATED. PROVIDE TEMPERATURE AND HUMIDITY SENSORS IN RETURN AIR DUCT PRIOR TO OUTSIDE AIR DUCT CONNECTION. ROUTE FRESH AIR DUCT AS SHOWN FROM RETURN AIR PLENUM TO WALL ROOF HOOD, BALANCE TO CFM SPECIFIED ON SCHEDULES. PROVIDE FILTER HOUSING, MANUAL VOLUME DAMPER & MOTORIZED DAMPER (24V ACTUATOR, REFER TO SPECIFICATIONS FOR OPERATION) IN FRESH AIR DUCT. MAINTAIN 10'-0" MINIMUM DISTANCE BETWEEN ALL FRESH AIR INTAKES & EXHAUST OUTLETS. REFER TO TYPICAL AIR HANDLING UNIT DETAIL #5 SHEET M4.2.
15. ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION AND TYPE OF EQUIPMENT. COORDINATE DUCTWORK/PIPING AS NOT TO BE ROUTED OVER PANELS. REFER TO DETAIL #4 SHEET M4.3.
16. TYPICAL LINEAR AIR DEVICE, REFER TO DETAIL #5 SHEET M4.4, & SCHEDULES.
17. AIR TRANSFER ASSEMBLY, REFER TO DETAIL #3 SHEET M4.4.
18. EXISTING SIDEWALL SUPPLY AIR GRILLE TO BE REMOVED AND REPLACED WITH NEW SIDEWALL GRILLE (PRICE MODEL 620DAL, WHITE FINISH). SIZE TO MATCH EXISTING, FIELD VERIFY PRIOR TO BID. BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
19. EXISTING CEILING DIFFUSER TO REMAIN AND BE REUSED. CONTRACTOR TO PAINT/FINISH (COLOR TO BE SELECTED BY ARCHITECT). BALANCE TO AIRFLOW MEASURED AT PRE-DEMOLITION MEASUREMENT "PRE-DEMOLITION MEASUREMENT REPORT".
20. CURRENT EXISTING LOCATION OF EXISTING AIR DEVICE THAT IS TO REPLACED WITH NEW AIR DEVICE.
21. CONTRACTOR TO REPLACE EXISTING BRANCH DUCT TO EXISTING CEILING DIFFUSER AND REPLACE WITH FLEXIBLE DUCTWORK TO NEW CEILING DIFFUSER. FIELD ROUTE NEW FLEXIBLE ROUND BRANCH DUCTWORK FROM AIR DEVICE AS REQUIRED TO RESULTANT OPENING IN MAIN TRUNK DUCTWORK (MODIFY RESULTANT OPENING AS REQUIRED). PROVIDE 45° LOW LOSS BRANCH DUCT TAP CONNECTION WITH DAMPER (FLEXMASTER MODEL STODBO3) AT NEW BRANCH DUCT CONNECTION TO EXISTING TRUNK DUCT, DAMPER CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE DAMPER SHALL HAVE A 2" RAISED HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARINGS ARE REQUIRED WHERE THE ROD PENETRATES THE BARREL. SIZE OF NEW ROUND BRANCH DUCTWORK TO BE GREATER THAN OR EQUAL TO THE EXISTING BRANCH DUCTWORK FREE AREA (FOR BIDDING PURPOSES FIGURE IN BID 8"ø BRANCH DUCT). FIGURE IN BID REDUCING TRANSITION ON REAR OF NEW SUPPLY AIR DIFFUSER. INSULATE AL DUCTWORK. BALANCE TO CFM AS DIRECTED BY MECHANICAL ENGINEER AFTER THE CONTRACTOR PROVIDES "PRE-DEMOLITION MEASUREMENT REPORT". REFER TO DETAIL #2 SHEET M4.2.
22. WEATHERPROOF EXTERIOR WALL LOUVER, REFER TO ARCHITECT FOR INSTALLATION HEIGHT AND COLOR SELECTION; SEAL ALL AROUND AIR AND WATER TIGHT. PROVIDE BIRDSCREEN ON REAR OF LOUVER. PROVIDE PLENUM ON REAR OF LOUVER FULL SIZE OF LOUVER DUCT CONNECTION AND TRANSITION AS SHOWN ON PLAN. PROVIDE SHEET METAL DIVIDERS AS SHOWN. REFER TO DETAILS #1 & #2 SHEET M4.3.
23. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON DUCT PENETRATION THRU WALL, THIS AREA. REFER TO TYPICAL DUCT PENETRATION THRU WALL DETAIL. COORDINATE DUCT PENETRATIONS THRU WET WALL IN RESTROOM AREAS PRIOR TO INSTALLATION TO AVOID ANY POSSIBLE CONFLICTS WITH SANITARY SEWER AND WATER LINES. SEAL ALL AROUND PENETRATION AIR TIGHT.
24. CONTRACTOR TO REMOVE INTERIOR WALL FOR THE INSTALLATION OF NEW REFRIGERANT PIPING. PATCH WALL TO MATCH EXISTING.
25. 45° LOW LOSS BRANCH DUCT TAP CONNECTION WITH DAMPER (FLEXMASTER MODEL STODBO3), DAMPER CONSTRUCTED OF MINIMUM 26 GAUGE GALVANIZED STEEL. THE DAMPER SHALL HAVE A 2" RAISED HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARINGS ARE REQUIRED WHERE THE ROD PENETRATES THE BARREL. TYPICAL ALL BRANCH DUCTS. TYPICAL.
26. FIELD REROUTE INSULATED CONDENSATE PIPING FROM AIR HANDLING UNIT TO NEW HUB DRAIN ON EXISTING GALVANIZED PLUMBING VENT AND TURN DOWN. PROVIDE & INSTALL NEW HUB DRAIN ON EXISTING PLUMBING VENT. REFER TO DETAIL #14 SHEET M4.1.
27. FIELD REROUTE INSULATED CONDENSATE PIPING FROM AIR HANDLING UNIT TO NEW HUB DRAIN ON EXISTING GALVANIZED ROOF DRAIN PIPING AND TURN DOWN. PROVIDE & INSTALL NEW HUB DRAIN AT EXISTING PIPING. REFER TO DETAIL #14 SHEET M4.1.

STATE OF LOUISIANA
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DISTRICT
PROFESSIONAL ENGINEER
CAL ENGINEERING

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kern architects

St. Landry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:

RENOVATION - 2ND FLOOR PLAN - MECHANICAL

SHEET NUMBER:

M2.2

EYRE ENGINEERING

PRINTED: 2.16.2026

DUCTLESS MINI-SPLIT SYSTEM

UNIT NO.	LOCATION	SERVICE	"ERU" FAN DATA (INDOOR UNIT) POWER FROM "ECU" SUPPLY CFM SL-LO-MED-HI-HH	BTU	COOLING DATA "ECU" RATED (MIN./MAX.) CAPACITY, BTUH	HEATING DATA "ECU" RATED (MIN./MAX.) CAPACITY, BTUH	COMPRESSOR DATA MCA	COMPRESSOR DATA MAX. FUSE	ELECTRIC SERVICE	MANUFACTURER	REMARKS
ERU-1/ECU-1	RE: DWGS.	SINGLE ZONE	132-247-316-436-473	12.0	12,000(4,400/14,600)	13,500(4,400/18,000)	9.36	15	208/1/60	DAIKIN	WALL-MOUNT TYPE; ERU-1 TO BE MODEL #FTXF12AXVJU, ECU-1 TO BE MODEL #RXF12XVJU

GENERAL NOTES:
1. LIQUID & SUCTION LINES SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH CONSIDERATION FOR ALL ACCESSORIES, LENGTH OF RUN, TURNS, AND ELEVATION CHANGES TO INSURE PROPER OPERATION AND CAPACITY.
2. MANUFACTURER TO PROVIDE WALL MOUNTED WIRED CONTROLLER PER "ERU". CONTRACTOR TO INSTALL/LOCATE ON WALL IN FIELD AT THE DIRECTION OF THE ARCHITECT IN THE FIELD DURING CONSTRUCTION.
3. PROVIDE LOW AMBIENT OPERATION KIT.
4. ALL UNITS TO HAVE R-32 REFRIGERANT.
5. ECU UNITS TO BE INVERTER TYPE.
6. ALL UNITS TO HAVE MAXIMUM EQUIVALENT REFRIGERANT RUN LENGTH OF 66'-0", NO EXCEPTION.
7. PROVIDE POWDER COATED WALL-MOUNTED BRACKET (DAIKIN PART #DACA-WB-3).
8. PROVIDE BACK PROTECTION WIRE NET (DAIKIN PART #KKG063A4E).
9. PROVIDE AIR DIRECTION ADJUSTMENT GRILLE (DAIKIN PART #KPW063B4), INSTALL IN UPWARD FACING ORIENTATION.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL NO.	C.F.M.	SUPPLY	RETURN	EXHAUST	O.A.	REGISTER	GRILLE	DIFFUSER	DOOR GR	LOUVER	CEILING	WALL/DR.	EXPOSED	SURF.MT.	NECK SIZE	FACE SIZE	MATERIAL	FINISH	O.B.D.	SECTORIZING BAFFLE	FILTER TYPE	REMARKS
A	PRICE	SERIES AMDA	SEE DWG.	●						●			●				6x6	11x11	ALUMINUM	RE: ARCH	NO	NO	NO	ADJUSTABLE, BEVEL FRAME, SURFACE MOUNT, TYPE 6 BORDER; RE: DWGS. FOR # THROW SIDES
B	PRICE	SERIES ASPD	SEE DWG.	●						●			●				6"ø	24x24	ALUMINUM	RE: ARCH	NO	NO	NO	PLAQUE DIFFUSER
C	PRICE	SERIES ASPD	SEE DWG.	●						●			●				8"ø	24x24	ALUMINUM	RE: ARCH	NO	NO	NO	PLAQUE DIFFUSER
D	PRICE	SERIES ASPD	SEE DWG.	●						●			●				10"ø	24x24	ALUMINUM	RE: ARCH	NO	NO	NO	PLAQUE DIFFUSER
E	PRICE	SERIES SDS100	SEE DWG.	●			●			●			●				TWO 1" SLOTS		ALUMINUM	RE: ARCH	NO	NO	NO	LINEAR SLOT DIFFUSER, 4'-0" SECTION, WITH SDAI100
F	PRICE	SERIES 620DAL	SEE DWG.	●					●					●			28x14	28x14	ALUMINUM	RE: ARCH	YES	NO	NO	DOUBLE DEFLECTION TYPE; ALUMINUM DAMPER ON REAR
G	PRICE	SERIES 630	SEE DWG.		●				●				●				24x24	24x24	ALUMINUM	RE: ARCH	NO	NO	NO	LOUVER FACE, 3/4" BLADE SPACING
H	PRICE	SERIES 630FF	SEE DWG.		●				●				●				24x24	24x24	ALUMINUM	RE: ARCH	NO	NO	YES	LOUVER FACE, 3/4" BLADE SPACING; FILTER TYPE

GENERAL NOTES:
1. REFER TO ARCH FOR CEILING TYPE, CONTRACTOR TO PROVIDE AND INSTALL PLASTER FRAME FOR GYPSUM BOARD CEILING INSTALLATION.
2. ALL GRILLES, REGISTERS, DIFFUSERS, ETC. TO COME WITH WHITE FINISH UNLESS OTHERWISE SPECIFIED BY ARCHITECT IN FIELD DURING CONSTRUCTION. FINISH SHOULD BE SUITABLE FOR PAINTING WITHOUT ANY ADDITIONAL PREPARATION.
3. NOT ALL MARKS NECESSARILY FOUND ON THE PLANS.
4. ALL GRILLES SHALL BE ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTED ON DRAWINGS.
5. MANUFACTURERS MODEL NUMBER REPRESENTS QUALITY OF EQUIPMENT TO BE INSTALLED, THIS PROJECT.
6. PERFORMANCE DATA FOR ALL GRILLES, LINEARS, DIFFUSERS, ETC. MUST BE SUBMITTED TO ENGINEER BEFORE PRIOR APPROVAL IS AWARDED.
7. NAILOR, METALAIRE, KRUEGER, & TITUS – APPROVED MANUFACTURERS.
8. ALL DIFFUSERS/GRILLES/REGISTERS LOCATED IN ACOUSTICAL CEILING TILE ASSEMBLY TO HAVE PANEL THE SAME SIZE OF THE GRID (12x12 FACE DIFFUSER IN 24x24 GRID TO BE IN 24x24 PANEL).
9. ALL GRILLES/REGISTERS/DIFFUSERS SIZES AS NOTED ON SCHEDULE UNLESS OTHERWISE NOTED ON DRAWINGS.
10. FIGURE IN BID PROVIDING SQUARE TO ROUND TRANSITIONS AND/OR REDUCER ON REAR OF ALL AIR DISTRIBUTION DEVICES.
11. FIGURE IN BID CUSTOM COLOR FOR ALL AIR DEVICES NOTED TO "RE: ARCH". ARCHITECT TO SELECT COLOR DURING SUBMITTAL PROCESS.
12. ALL LINEAR DIFFUSERS TO COME WITH FACTORY INSTALLED INTERNALLY LINED PLENUMS WITH SLOPED SHOULDERS ON REAR.
13. MOUNT ALL LINEAR DIFFUSERS (SUPPLY & RETURN) WITH CONCEALED FASTENERS.
14. REFER TO CONSTRUCTION DOCUMENTS ON EXACT LENGTH OF LINEAR SLOT DIFFUSERS, PROVIDE MITERED CORNERS WHERE SHOWN.

THE FOLLOWING BRANCH DUCT SIZING CHART SHALL BE USED AS CONVENIENCE TO THE CONTRACTOR WHERE ROUND BRANCH DUCT SIZES ARE NOT SHOWN ON THE DRAWINGS:

TAG:
- A. 6"
- B. 6"
- C. 8"
- D. 10"
- E. 8"

RELIEF / INTAKE VENTILATION ROOF HOOD SCHEDULE

UNIT NO.	LOCATION	SERVICE	CFM	THROAT SIZE	PD (IN W.C.)	BAROMETRIC DAMPER	ROOF OPENING	REMARKS
RH-A	ROOF MOUNT	INTAKE AT AHU-2	100	12"x12"	0.004	YES	14.5"x14.5"	GREENHECK MODEL FGI WITH PREFABRICATED ROOF CURB OR PRIOR APPROVED EQUAL
RH-B	ROOF MOUNT	INTAKE AT AHU-3	100	12"x12"	0.004	YES	14.5"x14.5"	GREENHECK MODEL FGI WITH PREFABRICATED ROOF CURB OR PRIOR APPROVED EQUAL
RH-C	ROOF MOUNT	INTAKE AT AHU-4	150	12"x12"	0.005	YES	14.5"x14.5"	GREENHECK MODEL FGI WITH PREFABRICATED ROOF CURB OR PRIOR APPROVED EQUAL
RH-D	ROOF MOUNT	INTAKE AT AHU-5	150	12"x12"	0.005	YES	14.5"x14.5"	GREENHECK MODEL FGR WITH PREFABRICATED ROOF CURB OR PRIOR APPROVED EQUAL

FGI/FGR
HOODED GRAVITY INTAKE/RELIEF
STANDARD CONSTRUCTION FEATURES
1. PRECISION FORMED LOCKED RIB CONSTRUCTION.
2. ALUMINUM CONSTRUCTION.
3. 0.5 IN. ALUMINUM MESH BIRDSCREENS.
4. HEAVY GAUGE GALVANIZED STEEL SUPPORT MEMBERS.
5. HOOD SHALL BE COMPLETELY REMOVABLE FROM THE BASE OR HINGED OPEN.

SELECTED OPTIONS & ACCESSORIES
1. ALUMINUM BIRDSCREEN IN LIEU OF GALVANIZED ALUMINUM HOUSING.
2. PROVIDE ALUMINUM ROOF CURB, TRAY, BAKED ENAMEL – CUSTOM COLOR TO BE SELECTED BY ARCHITECT.
3. HOOD AND ROOF CURB TO HAVE BAKED ENAMEL FINISH – COLOR TO BE SELECTED, EXTERIOR OF UNIT
4. 1 IN. THICK HOOD INSULATION

GENERAL NOTES:
1. ACCESSORIES: ALUMINUM BIRDSCREEN, ALUMINUM HOUSING, PREFABRICATED ROOF CURB (12" CURB HEIGHT), BAKED ENAMEL FINISH (CUSTOM COLOR, CURB & HOOD), 1" THICK HOOD INSULATION.
2. BACKDRAFT DAMPERS TO BE ADJUSTABLE WEIGHTED TYPE.
3. COORDINATE EXACT REQUIRED ROOF OPENING DIMENSIONS FROM MANUFACTURER OF ACTUAL EQUIPMENT SUPPLIED TO PROJECT.
4. LOREN COOK APPROVED EQUAL.

EXHAUST FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	C.F.M.	TOTAL S.P. I.W.G.	TYPE	DRIVE	FAN R.P.M.	SONES	MOTOR DATA WATTS	MOTOR DATA VOLTS	MOTOR DATA PH./HZ.	MOTOR DATA R.P.M.	ENCLOSURE	REMARKS	CONTROLLED BY
EF-1,2,3,4	CEILING	RE: DWGS.	70	0.25"	CABINET	DIRECT	867	1.0	13	120	1/60	950	ODP	GREENHECK MODEL SP-A110 APPROVED EQUAL	INTEGRATE WITH LIGHT CIRCUIT
EF-5	CEILING	RE: DWGS.	50	0.25"	CABINET	DIRECT	808	1.1	10	120	1/60	950	ODP	GREENHECK MODEL SP-A110 APPROVED EQUAL	INTEGRATE WITH LIGHT CIRCUIT

GENERAL NOTES:
1. PROVIDE ALL EXHAUST FANS WITH BACKDRAFT DAMPERS & INTEGRAL DISCONNECTS.
2. COORDINATE WITH ELECTRICAL CONTRACTOR ON CONNECTION OF FAN, REFER TO SCHEDULES.
3. MANUFACTURERS MODEL NUMBER REPRESENTS QUALITY OF EQUIPMENT TO BE INSTALLED, THIS PROJECT.
4. ALL CABINET/INLINE FANS TO HAVE INSULATED FAN HOUSINGS.
5. SOME FANS APPEAR MORE THAN ONCE IN PROJECT, REFER TO DRAWINGS.
6. PROVIDE SPEED CONTROLLERS AT ALL DIRECT DRIVE FANS FOR AIR BALANCING.
7. ALL FANS SHALL BE ALL ALUMINUM CONSTRUCTION (FAN HOUSING, ETC.).
8. EQUIPMENT SHALL BE RATED A MINIMUM OF 75°(C) IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) ARTICLE 110.14.
9. APPROVED MANUFACTURERS: COOK, TWIN CITY.

CABINET EXHAUST FAN SPECIFICATION:
TAG: ALL "EF-*"
MODEL: GREENHECK "SP-A" SERIES (CEILING EXHAUST FAN)

STANDARD CONSTRUCTION FEATURES:
1. CORROSION RESISTANT GALVANIZED STEEL SCROLL AND HOUSING
2. SOUND ABSORBING INSULATION
3. WHITE DESIGNER NON-YELLOWING GRILLE
4. RECTANGULAR OUTLET DUCT COLLAR WITH INTEGRAL SPRING LOADED BACKDRAFT DAMPER
5. DOUBLE INLET FORWARD CURVED WHEEL
6. PLUG TYPE DISCONNECT
7. ADJUSTABLE MOUNTING BRACKETS
8. FIELD ROTATABLE DISCHARGE

SELECTED OPTIONS & ACCESSORIES:
1. MOTOR RATED FOR CONTINUOUS USE
2. MOTOR WITH THERMAL OVERLOAD
3. MOTOR WITH CSA APPROVAL
4. MOTOR WITH 40 DEGREE C AMBIENT TEMPERATURE
5. UL/CUL 507 LISTED – ELECTRIC FAN
6. SOLID STATE SPEED CONTROL, MOUNTED AND WIRED INTERNALLY
7. MOTION DETECTOR, GRILLE MOUNTED (WHERE NOTED ON SCHEDULE)
8. ROUND DUCT CONNECTOR, (PN: RDC) SHIPPED LOOSE
9. ADJUSTABLE EASY INSTALLATION MOUNTING BRACKET
10. ENERGY STAR CERTIFIED
11. STANDARD GRILLE
12. POLYPROPYLENE WHEEL MATERIAL
13. COMPLY WITH: ASHRAE 62.2, CALIFORNIA TITLE 24, AND WASHINGTON STATE ENERGY CODE

LOUVER SCHEDULE

ID TAG	AREA SERVED	MANUFACTURER	MODEL	SIZE W"xH"xD"	CFM	FREE AREA MIN (SF)	FPM (FT/MIN.)	APD ("WC)	MATERIAL	MOTORIZED DAMPER	CONTROL CIRCUIT	BPWP FT./MIN.
L-1	EXHAUST AIR @ EF-1,2	GREENHECK	ESD-435X	18x12x4	140	0.48	392	0.022	ALUMINUM	NO	NO	989
L-2	EXHAUST AIR @ EF-3,4,5	GREENHECK	ESD-435X	18x12x4	140	0.48	392	0.022	ALUMINUM	NO	NO	989

GENERAL NOTES:
1. ALL LINE VOLTAGE WIRING AND INTERLOCK BY ELECTRICAL CONTRACTOR.
2. LOUVER TO HAVE 70% KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT/ENGINEER.
3. LOUVERS SHALL HAVE THE FOLLOWING:
   3.1. DRAINABLE BLADES
   3.2. BIRDSCREEN
   3.3. CHANNEL FRAMES
   3.4. EXTENDED SILLS
4. REFER TO DETAILS #1 & #2, SHEET M4.3.
5. LOUVERS TO BE FLORIDA PRODUCT APPROVED.
6. APPROVED MANUFACTURERS: POTTORF, RUSKIN.

BASIS OF DESIGN:
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:
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- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

STATE OF LOUISIANA
HENRY EYRE, III
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DISTRICT
PROFESSIONAL ENGINEER
CAL ENGINEERING

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M3.1

EYRE ENGINEERING
PRINTED: 2.16.2026

VARIABLE REFRIGERANT VOLUME AIR UNITS – HEAT PUMP

UNIT NUMBER	MOTOR		FAN DATA			UNIT CAPACITIES				UNIT WIRING, POWER SUPPLY			CONDENSATE CONNECTION SIZE	TYPE	REMARKS
	HP	TYPE	S/A CFM (H/M/L)	E.S.P. (RATED)	OA CFM	COOLING CAPACITY	INPUT POWER(KW)	HEATING CAPACITY	INPUT POWER(KW)	ELECTRICAL SERVICE	M.C.A. AMPS	MAXIMUM FUSE/BREAKER AMPS			
AHU–1A,1B,4,5	1	ECM	1800/1530/1260	0.75"	150	60.0 MBH	–	66.0 MBH	–	208/1/60	8.6	15	3/4"	MULTI–POSITION AIR UNIT	DAIKIN MODEL FXTA60AAVJUD OR PRIOR APPROVED EQUAL
AHU–1C,2,3	1/2	ECM	1050/900/750	0.75"	100	36.0 MBH	–	40.0 MBH	–	208/1/60	4.9	15	3/4"	MULTI–POSITION AIR UNIT	DAIKIN MODEL FXTA36AAVJUD OR PRIOR APPROVED EQUAL

GENERAL NOTES:

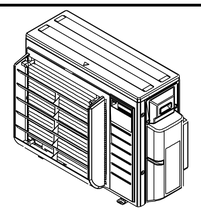
1. PROVIDE TEN (10) YEAR PARTS WARRANTY.
2. PROVIDE WASHABLE LONG LIFE FILTER WITH MILDEW PROOF RESIN.
3. PROVIDE THERMOSTAT SECURELY ANCHORED TO WALL, DAIKIN MODEL #BRC1E73. REFER TO DRAWING(S) FOR LOCATION. REFER TO SPECIFICATIONS.
4. ALL DAIKIN #FXTA MODEL AIR HANDLING UNITS TO COME WITH GLOBAL PLASMA SOLUTIONS GPS–FC24–AC AUTOCLEANING AIR PURIFIERS.
5. AHU'S TO COME WITH SINGLE POINT POWER KIT.
6. AHU'S TO HAVE REMOTE TEMPERATURE & HUMIDITY SENSORS IN RETURN PRIOR TO MIXING WITH OUTSIDE AIR, DAIKIN MODEL KRCS01–4B.
7. AHU'S TO COME WITH FACTORY MOUNTED DISCONNECT.
8. AHU'S TO HAVE SINGLE POINT ELECTRICAL CONNECTION.

VARIABLE REFRIGERANT VOLUME HEAT PUMP UNIT SCHEDULE – HEAT PUMP

UNIT NO.	TONS OF REFR.	SEER2	PERFORMANCE DATA					COMPRESSOR TYPE		UNIT WIRING, POWER SUPPLY (SINGLE ELECTRICAL POINT OF CONNECTION)				UNIT TYPE	WEIGHT (LBS.)	REMARKS
			TYPE REFR.	COOLING CAPACITY	COOLING INPUT KW	HEATING CAPACITY	HEATING INPUT KW	COND. TEMP.	TYPE	VOLTS	PH. / HZ.	MINIMUM CIRCUIT AMPS	MAXIMUM FUSE AMPS			
HP–1A,1B,4,5	5	23.0	R–32	57.5 MBH	–	57.0 MBH	–	95	INVERTER	208	1 / 60	34.6	35	HEAT PUMP	250	DAIKIN RXTA60AAVJU OR PRIOR APPROVED EQUAL
HP–1C,2,3	3	23.0	R–32	34.2 MBH	–	37.0 MBH	–	95	INVERTER	208	1 / 60	19.8	20	HEAT PUMP	250	DAIKIN RXTA36AAVJU OR PRIOR APPROVED EQUAL

GENERAL NOTES:

1. PROVIDE TEN (10) YEAR COMPRESSOR WARRANTY.
2. PROVIDE TEN (10) YEAR PARTS WARRANTY.
3. UNITS SHALL HAVE OPERATION OF HEATING OR COOLING.
4. PROVIDE HYDROPHILIC COATED CONDENSER COIL TO PREVENT CORROSION.
5. PROVIDE VARIABLE FREQUENCY DRIVE CONTROLLED OUTDOOR MOTOR FAN.
6. PROVIDE FACTORY SET SUCTION TEMPERATURE.
7. CONTRACTOR TO PROVIDE & INSTALL CONTROL WIRE FROM HEAT PUMP UNITS TO RESPECTIVE AIR UNIT WITH REFRIGERANT PIPE.
8. ALL REFRIGERANT PIPE TO BE SUPPORTED. REFER TO REFRIGERANT PIPE HANGER DETAIL.
9. LIQUID/GAS LINES SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH CONSIDERATION FOR ALL ACCESSORIES, LENGTH OF RUN, TURNS, AND ELEVATION CHANGES TO INSURE PROPER OPERATION AND CAPACITY.
10. PROVIDE POWDER COATED WALL–MOUNTED BRACKET (DAIKIN PART #DACA–WB–3).
11. PROVIDE BACK PROTECTION WIRE NET (DAIKIN PART #KKG063A4E).
12. PROVIDE AIR DIRECTION ADJUSTMENT GRILLE (DAIKIN PART #KPW063B4), INSTALL IN UPWARD FACING ORIENTATION.



*APPEARANCE OF THE AIR DIRECTION ADJUSTMENT GRILLE AFTER INSTALLATION (WHEN INSTALLED WITH THE LOUVERS FACING UP).

Features and Benefits

- Expanded capacity lineup, featuring ten models ranging from ¾ ton to 5 tons, with a redesigned unit frame for maximum durability.
- Full multi-position air handler capable of upflow, downflow, horizontal right, and horizontal left installation.
- A high efficiency, ECM motor powers the fan to deliver nominal CFM at up to 0.9" w.g. static. An auto fan speed setting automatically adjusts the fan speed through 5 steps based on the load in the space.
- Wide line up of optional electric heat accessories from 3kW to 25kW.
- Improved auxiliary heat logic features a reduced heater operation deadband and the ability to run both heat pump and auxiliary heat for maximum comfort and performance in colder climates. The auxiliary heat can be interlocked with the ambient temperature sensed by the outdoor unit.
- Designed with less than 2% air leakage when tested in accordance with ASHRAE standard 193.
- New integrated control board reduces the number of electrical connections required. Quick disconnect control wiring terminals simplify installation.
- Easily integrate with third party accessories such as a humidifier or economizer with on-board contacts.
- Up to 200% connection ratio is possible on applicable *VRV* systems.
- Available with optional factory installed disconnect (Built to order — model FXTA_AAVJUD.
- All aluminum coil



RXTA-AAVJU EDUS332501-D

1. Features and Benefits

The ***VRV*** S series completes the ***VRV*** product family by introducing the enhanced features and benefits offered in Daikin's 3-phase ***VRV*** products in to the single phase offering.

- Available in 2, 3, 4 and 5 ton models
- Year round comfort and energy savings delivered by combining ***VRV*** and Variable Refrigerant Temperature (VRT) technologies
- Broader diversity with ability to provide cooling and heating in up to 9 zones
- Compatible with all Daikin ducted and ductless indoor fan coils
- Easy installation with weight under 240 lbs
- Low sound levels for comfort in sound sensitive applications
- Engineered with Daikin's swing compressor technology to increase efficiency and reliability
- Dependable operation in extreme ambient conditions down to −4°F (−20°C) in heating and up to 122°F (50°C) in cooling
- Added safety and peace of mind with optional auto changeover to auxiliary heat
- Backed by best in class limited warranty for parts and compressor replacement, see warranty document for details*.

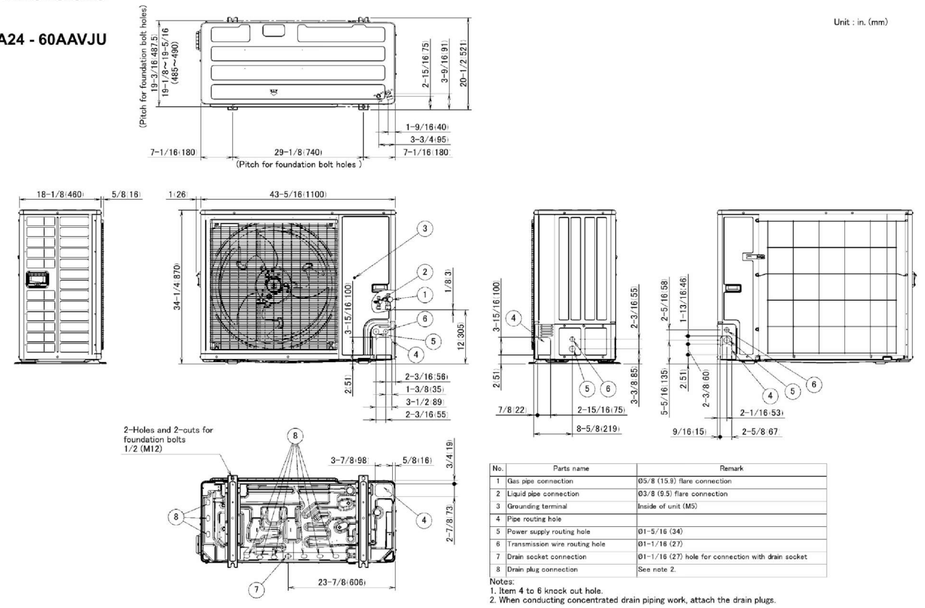


RXTA-AAVJU EDUS332501-D

7. Dimensions

RXTA24 - 60AAVJU

Unit : in. (mm)



No.	Parts name	Remark
1	Gas pipe connection	Ø5/8 (15.9) flare connection
2	Liquid pipe connection	Ø3/8 (9.5) flare connection
3	Grounding terminal	Inside of unit (M5)
4	Pipe routing hole	
5	Power supply routing hole	Ø1–5/16 (34)
6	Transmission wire routing hole	Ø1–1/16 (27)
7	Drain socket connection	Ø1–1/16 (27) hole for connection with drain socket
8	Drain plug connection	See note 2.

Notes:
1. Item 4 to 6 knock out hole.
2. When conducting concentrated drain piping work, attach the drain plugs.

3D153968A

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1 DETAIL - AHU/HP SUBMITTAL DATA & DIMENSIONAL DRAWING

NO SCALE

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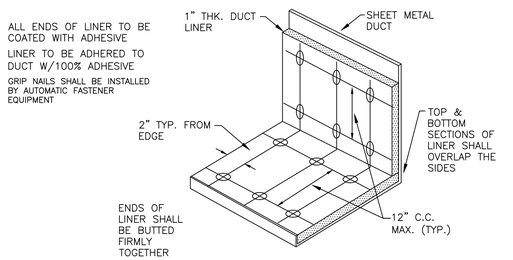
No.	Description	Date

PROJECT NUMBER: 2025-009
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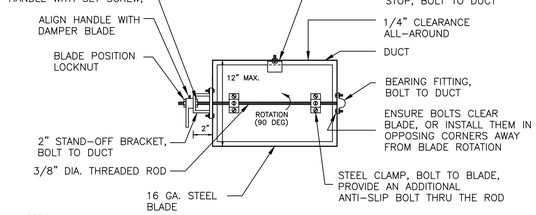
SHEET TITLE:
AHU/HP SPECIFICATIONS, SCHEDULES & DETAILS

SHEET NUMBER:
M3.2

EYRE ENGINEERING
PRINTED: 2.16.2026

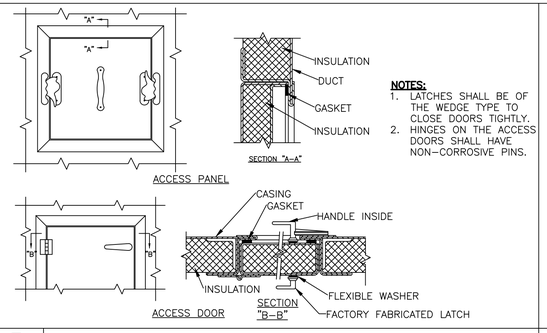


1 NTS DETAIL – DUCT LINER INSTALLATION



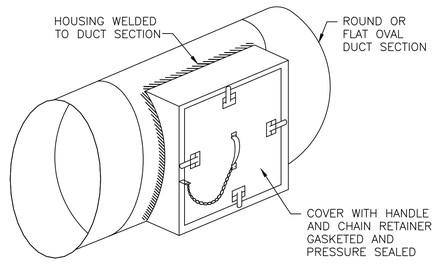
NOTES:
1. DAMPERS FOR ROUND DUCTS SHALL BE SIMILAR TO THE DAMPER SHOWN ABOVE.
2. ENSURE THAT FULL 90° DAMPER BLADE MOVEMENT IS UNOBSTRUCTED.
3. FOR DUCT HEIGHTS MORE THAN 12", PROVIDE FACTORY–FABRICATED OPPOSED BLADE DAMPERS

2 NTS DETAIL – MANUAL VOLUME DAMPER, TYPICAL



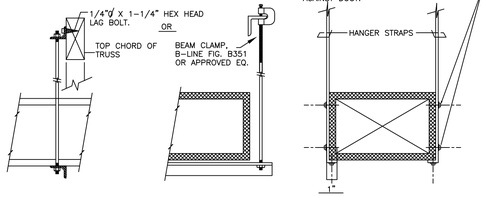
NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON–CORROSIVE PINS.

3 NTS DETAIL – DUCT ACCESS DOOR, TYPICAL



4 NTS DETAIL – ACCESS SECTION FOR ROUND DUCT

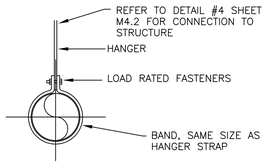
HANGER SUPPORT SCHEDULE			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"X18" GAGE STRIP	1½"X1½"X1/8"	10'–0"
36"	1/4" ROUND ROD	2"X2"X1/8"	8'–0"
48"	1/4" ROUND ROD	2"X2"X1/8"	8'–0"
60"	5/16" ROUND ROD	2"X2"X1/8"	8'–0"
84"	3/8" ROUND ROD	2"X2"X1/8"	8'–0"



NOTES:
1. REFER TO ARCH DRAWINGS FOR EXACT STRUCTURE OF BUILDING.
2. REFER TO SPECS FOR INSULATION TYPE

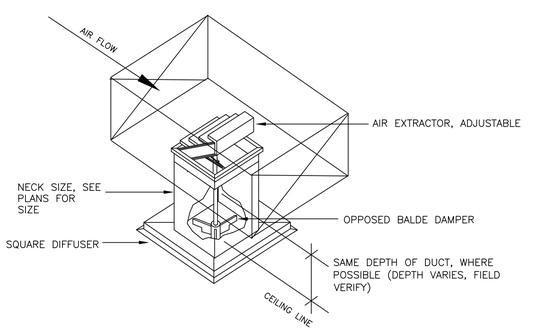
5 NTS DETAIL – RECTANGULAR DUCT SUPPORTS

MINIMUM HANGERS SIZES FOR ROUND DUCT			
DIA.	MIN. SPACING	ROD	STRAP
10" DN	12'0"	1/4"	1"x22 GA.
11"–18"	12'0"	1/4"	1"x22 GA.
19"–24"	12'0"	1/4"	1"x22 GA.
25"–36"	25"–36"	1/4"	1"x20 GA.
37"–50"	12'0"	TWO (2) 3/8"	TWO (2) 1"X18 GA.
51"–60"	12'0"	TWO (2) 3/8"	TWO (2) 1"X18 GA.

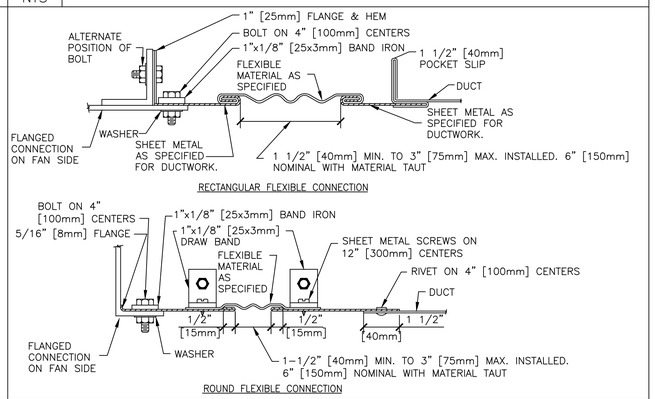


NOTES:
1. REFER TO ARCH DRAWINGS FOR STRUCTURE OF BUILDING.

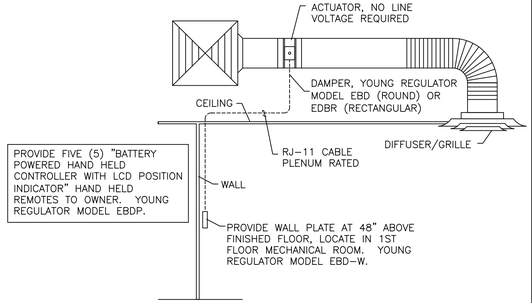
6 NTS DETAIL – ROUND DUCT SUPPORTS



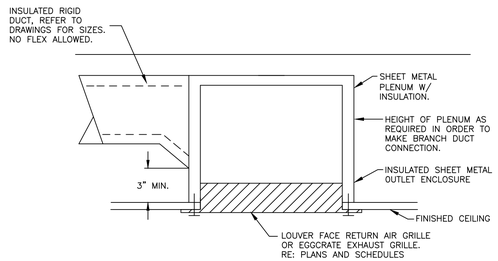
7 NTS DETAIL – RECTANGULAR DUCT DROP TO DIFFUSER, TYPICAL



8 NTS DETAIL – FLEXIBLE EQUIPMENT/DUCT CONNECTIONS

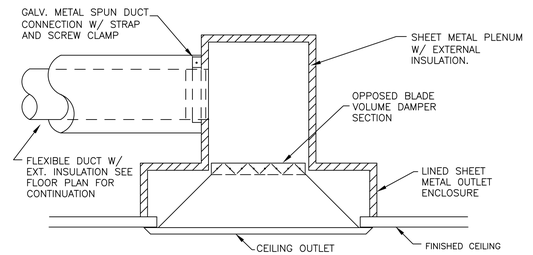


9 NTS DETAIL – REMOTE OPERATED DAMPER, TYPICAL



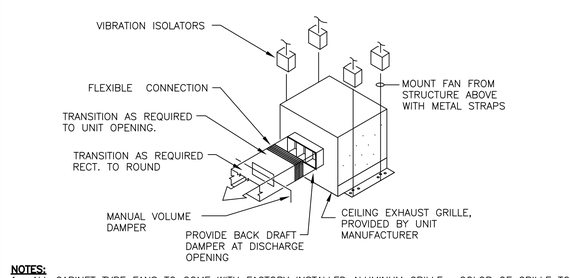
NOTES:
1. RETURN AIR AND OUTSIDE DUCT CONNECTIONS SIMILAR.
2. CONNECTION ON TOP SIMILAR.

10 NTS DETAIL – PLENUM ON REAR OF RETURN AIR GRILLE



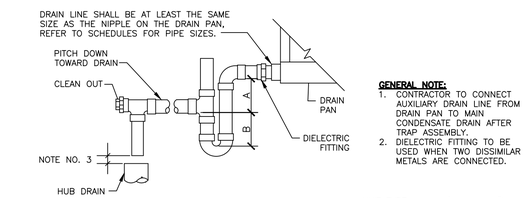
*CONTRACTOR TO PROVIDE INSULATED SHEET METAL PLENUM OF REAR OF SUPPLY GRILLE AND TAP INTO SIDE OF PLENUM WITH BRANCH DUCT. REFER TO DRAWINGS FOR SIZE OF BRANCH DUCT. CONTRACTOR TO USE THIS SETUP ONLY WHEN THE CEILING SPACE DOES NOT ALLOW FOR A SMOOTH ROUND RADIUS ELBOW DOWN TO SUPPLY GRILLE.

11 NTS DETAIL – DIFFUSER PLENUM TAP CONNECTION



NOTES:
1. ALL CABINET TYPE FANS TO COME WITH FACTORY INSTALLED ALUMINUM GRILLE. COLOR OF GRILLE TO BE WHITE.
2. MECHANICAL CONTRACTOR TO PROVIDE FACTORY MOUNTED SPEED CONTROLLER FOR AIR BALANCING AT EVERY CABINET TYPE EXHAUST FAN.

12 NTS DETAIL – CABINET TYPE EXHAUST FAN, TYPICAL



NOTES:
1. REFER TO SCHEDULES FOR SIZE OF CONDENSATE PIPE.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
3. TWICE THE PIPE DIAMETER, 2" MIN. GAP

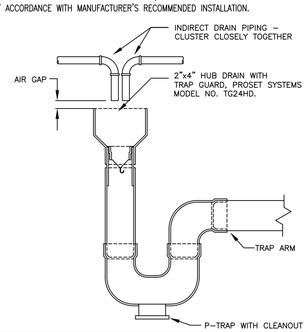
GENERAL NOTE:
1. CONTRACTOR TO CONNECT AUXILIARY DRAIN LINE FROM DRAIN PAN TO MAIN CONDENSATE DRAIN AFTER TRAP ASSEMBLY.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

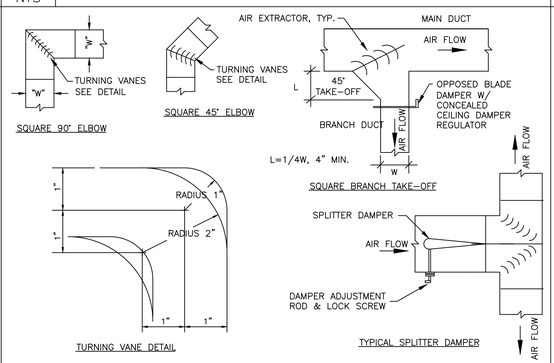
WHERE X = STATIC PRESSURE IN PAN

13 NTS DETAIL – CONDENSATE DRAIN TRAP

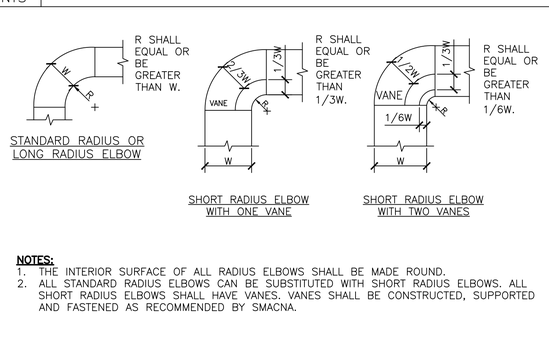
GENERAL NOTES:
1. HUB DRAIN TO COME WITH PROTECTIVE CAP AND 2" TRAP GUARD BUILT IN TO HANDLE UP TO 12 GPM.
2. INSTALLATION TYPICAL TO ANY HUB DRAIN ASSEMBLY.
3. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT INSTALLATION HEIGHT AS TO GRAVITY FLOW CONDENSATE DRAIN PIPING FROM EVAPORATOR COIL.
4. DO NOT CONTACT FLEXIBLE MATERIAL WITH PRIMER OR SOLVER CEMENT.
5. USE PROSET E–Z FLEX COUPLING CONNECTION FOR CAST IRON PIPING.
6. INSPECT TRAP GUARD FOR DEBRIS AND FLUSH WITH CLEAR, WARM WATER PRIOR TO JOB COMPLETION.
7. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION.



14 NTS DETAIL – HUB DRAIN FOR CONDENSATE REMOVAL



15 NTS DETAIL – TYPICAL DUCT LAYOUTS



NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

16 NTS DETAIL – RADIUS DUCT ELBOWS, TYPICAL

STATE OF LOUISIANA
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CAL. ENGINEERING

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101 NORTH 2ND STREET
EUNICE, LA. 70535

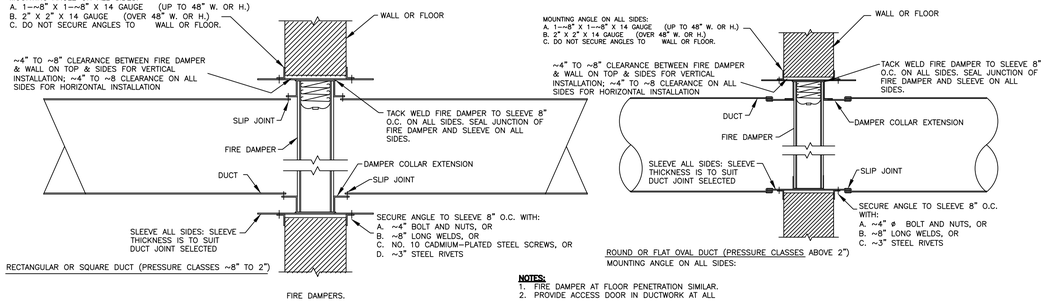
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
MECHANICAL DETAILS

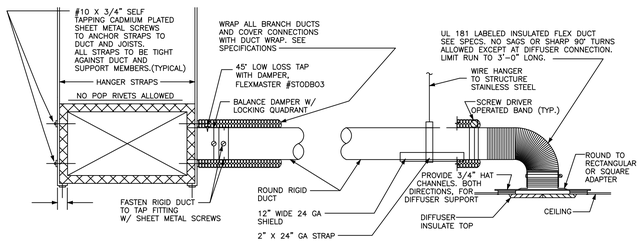
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NOTES:
1. FIRE DAMPER AT FLOOR PENETRATION SIMILAR.
2. PROVIDE ACCESS DOOR IN DUCTWORK AT ALL

1 NTS — DETAIL – FIRE DAMPER INSTALLATION, RECTANGULAR & ROUND DUCT



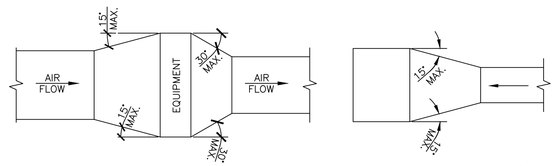
NOTE:
IN AREAS WHERE FIRE DAMPERS ARE REQUIRED PROVIDE DEEP ROUND TO RECTANGULAR OR SQUARE ADAPTER AND BUILD GYPSUM BOARD ENCLOSURE.

NOTE:
PROVIDE SUPPORT ON ALL BRANCH DUCT RUNOUTS. MINIMUM OF TWO SUPPORTS ON BRANCH DUCTS OVER 6'-0" IN LENGTHS.

*ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS IN METALLIC AND NONMETALLIC DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS– METAL AND FLEXIBLE AND NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. CLOSURE SYSTEMS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED '181A-P' FOR PRESSURE-SENSITIVE TAPE, '181A-M' FOR MASTIC OR '181 A-H' FOR HEAT-SENSITIVE TAPE. CLOSURE SYSTEMS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '181B-FX' FOR PRESSURE-SENSITIVE TAPE OR '181B-M' FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '181B-C'. CLOSURE SYSTEMS USED TO SEAL METAL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY DUCT.

NOTES:
1. NO SPIN COLLARS ALLOWED.
2. 3'-0" FLEX MAX., NO EXCEPTION.
3. ALL EXPOSED DUCT SHALL BE DOUBLE WALL.
4. ALL EXPOSED DUCTWORK AND GRILLES SHALL BE PAINTED, REFER TO ARCHITECT FOR COLOR SELECTION.

2 NTS — DETAIL – TYPICAL BRANCH TO DIFFUSER

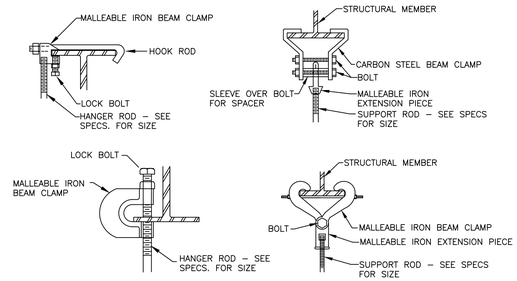


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT
PLAN OR SIDE VIEW

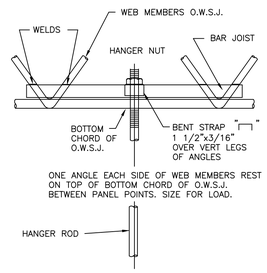
TYPICAL DUCTWORK TRANSITION
PLAN OR SIDE VIEW

NOTE:
1. UNLESS OTHERWISE SPECIFIED ON DRAWINGS, MAXIMUM ANGLES SHOWN SHALL APPLY.

3 NTS — DETAIL – DUCTWORK TRANSITION TO EQUIPMENT



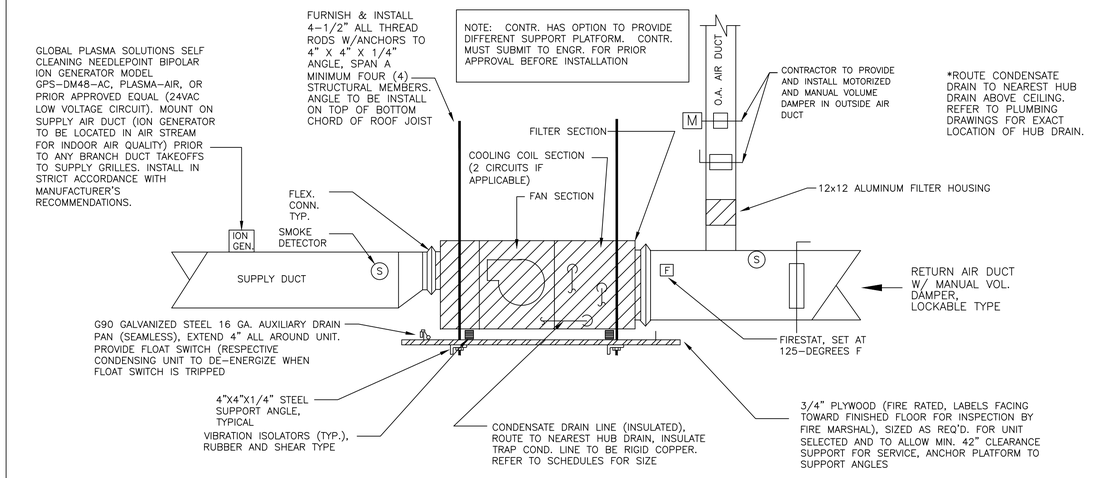
BEAM CLAMPS FOR PIPE OR EQUIPMENT SUPPORT



STEEL BAR JOIST PIPE SUPPORT

*CONTRACTOR TO HANG ALL DUCTWORK, PIPING, ETC. AT EVERY STRUCTURAL ROOF JOIST MEMBER, TYPICAL EVERY 2'-0" ON CENTER. AS TO NOT OVERLOAD THE ROOF STRUCTURE. NO EXCEPTION, TYPICAL ALL HVAC, PLUMBING, & SPRINKLER SYSTEMS.

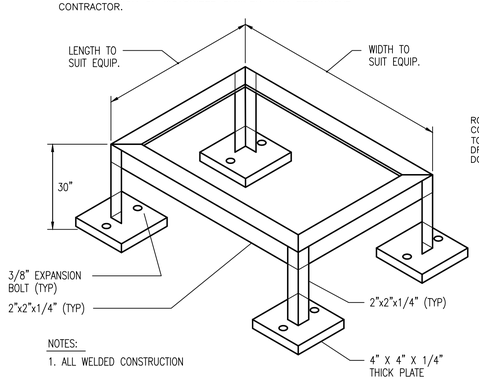
4 NTS — DETAIL – WOOD FRAME SUPPORTS/ANCHOR CONNECTIONS, TYPICAL



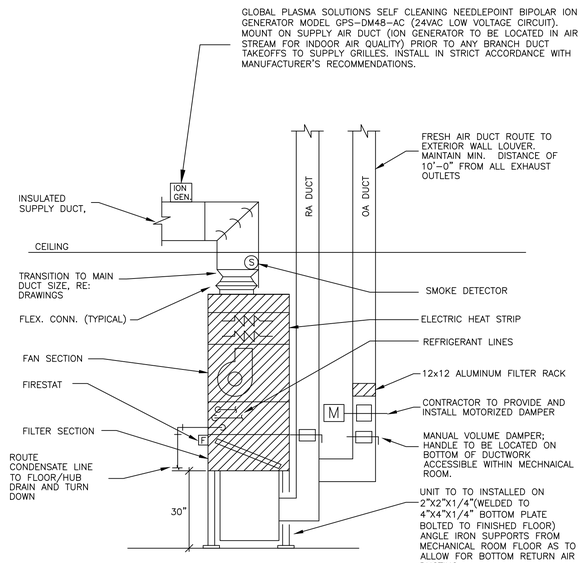
NOTES:
1. ALL DRAINS TO BE INDIRECT, DO NOT HARD CONNECT DRAIN LINES.
2. SMOKE DAMPER REQUIRED ON S/A & R/A ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 15,000 CFM.
   2.1. SMOKE DETECTOR IN R/A SIDE OF UNIT REQUIRED ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 2,000.
   2.2. SMOKE DETECTOR IN S/A SIDE OF UNIT REQUIRED ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 2,000.
   2.3. PROVIDE FIRESTAT IN R/A SIDE OF UNIT.
   2.4. REFER TO SCHEDULES FOR CFM OF AIR HANDLING UNIT.
3. MECHANICAL CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES IN FIELD PRIOR TO INSTALLATION OF DUCT SLEEVES, HOUSEKEEPING PAD PLACEMENT, S/A DUCT PLACEMENT, ETC.
4. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON EXACT LOCATION OF ALL HUB DRAINS PRIOR TO PROJECT GROUND BREAKING AS NOT TO CONFLICT WITH MECHANICAL EQUIPMENT. HUB DRAIN LOCATION BASED ON EQUIPMENT ON DRAWINGS. IF DIFFERENT EQUIPMENT IS USED ON JOB PLUMBING CONTRACTOR SHALL COORDINATE NEW HUB DRAIN LOCATION AS NOT TO CONFLICT WITH NEW EQUIPMENT.
5. ALL MOTORIZED DAMPERS AND MANUAL VOLUME DAMPERS ARE TO BE ACCESIBLE FROM MECHANICAL PLATFORM, NO EXCEPTION.
6. INTERCONNECT MOTORIZED DAMPER (LOCATED IN FRESH AIR DUCT) WITH RESPECTIVE AHU, DAMPER TO ALWAYS BE IN CLOSED POSITION AND ONLY OPEN TO 100% WHEN UNIT IS ENERGIZED. COORDINATE EXACT LOCATION OF MOTORIZED DAMPER WITH ELECTRICAL CONTRACTOR.

5 NTS — DETAIL – SUSPENDED AIR HANDLING UNIT INSTALLATION, TYPICAL

NOTES:
1. ALL DRAINS TO BE INDIRECT, DO NOT HARD CONNECT DRAIN LINES.
2. SMOKE DAMPER REQUIRED ON S/A & R/A ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 15,000 CFM.
   2.1. SMOKE DETECTOR IN R/A SIDE OF UNIT REQUIRED ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 2,000.
   2.2. SMOKE DETECTOR IN S/A SIDE OF UNIT REQUIRED ONLY IF CFM OF AIR HANDLING UNIT EXCEEDS 2,000.
   2.3. PROVIDE FIRESTAT IN R/A SIDE OF UNIT.
   2.4. REFER TO SCHEDULES FOR CFM OF AIR HANDLING UNIT.
3. MECHANICAL CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES IN FIELD PRIOR TO INSTALLATION OF DUCT SLEEVES, HOUSEKEEPING PAD PLACEMENT, S/A DUCT PLACEMENT, ETC.
4. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON EXACT LOCATION OF ALL HUB DRAINS PRIOR TO PROJECT GROUND BREAKING AS NOT TO CONFLICT WITH MECHANICAL EQUIPMENT. HUB DRAIN LOCATION BASED ON EQUIPMENT ON DRAWINGS. IF DIFFERENT EQUIPMENT IS USED ON JOB PLUMBING CONTRACTOR SHALL COORDINATE NEW HUB DRAIN LOCATION AS NOT TO CONFLICT WITH NEW EQUIPMENT.
5. ALL MOTORIZED DAMPERS AND MANUAL VOLUME DAMPERS ARE TO BE ACCESIBLE FROM MECHANICAL PLATFORM, NO EXCEPTION.
6. INTERCONNECT MOTORIZED DAMPER (LOCATED IN FRESH AIR DUCT) WITH RESPECTIVE AHU, DAMPER TO ALWAYS BE IN CLOSED POSITION AND ONLY OPEN TO 100% WHEN UNIT IS ENERGIZED. COORDINATE EXACT LOCATION OF MOTORIZED DAMPER WITH ELECTRICAL CONTRACTOR.



TYPICAL SUPPORT FRAME DETAIL
N.T.S.



6 NTS — DETAIL – VERTICAL AIR HANDLING UNIT INSTALLATION, TYPICAL

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St. Landry Bank
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EUNICE, LA. 70535

No.	Description	Date

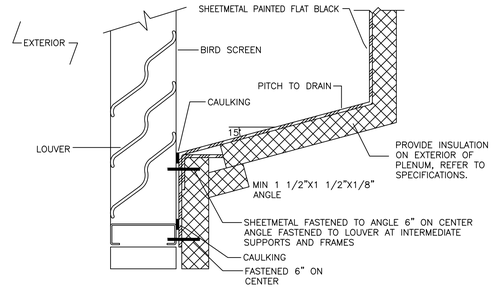
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PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M4.2

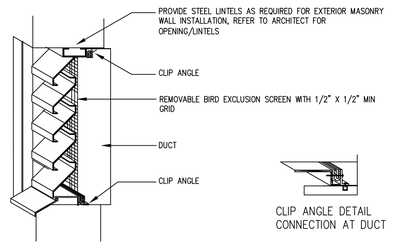
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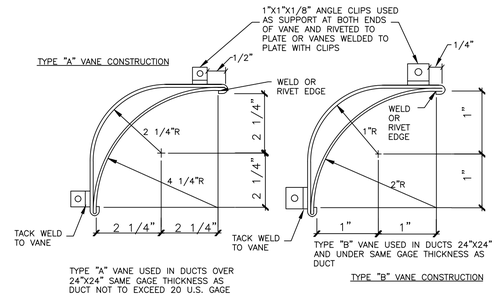
NOTES:
1. SUPPORT PLENUM FROM FLOOR OR STRUCTURE ABOVE W/ GALVANIZED STEEL ANGLES AND CHANNELS.

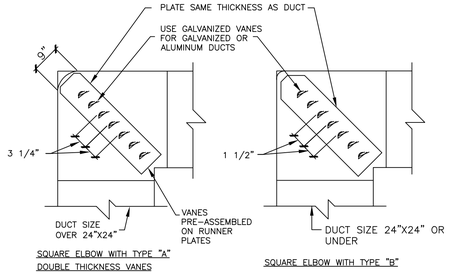
1 NTS DETAIL – PLENUM AT LOUVER CONNECTION



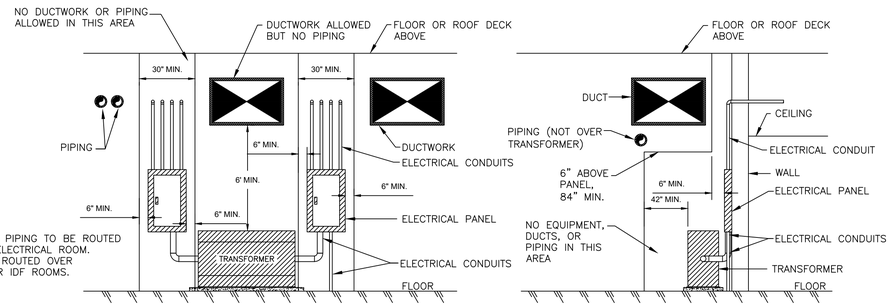
NOTES:
1. OVERALL SIZE OF OPENING SHOULD BE 1/4" GREATER IN BOTH DIRECTIONS THAN EXTERNAL DIMENSIONS OF LOUVER. VERIFY WITH MANUFACTURER OF ACTUAL LOUVER SUPPLIED TO PROJECT.
2. USE MULLION CONNECTED SECTIONS FOR WIDTHS GREATER THAN 5'-0".
3. CAULK AND SEAL AROUND PERIMETER OF LOUVER SECTION AT WALL.
4. PROVIDE ALUMINUM EXPANDED BIRD EXCLUSION SCREEN ON INSIDE OF LOUVER. (MIN FREE AREA 80% OF GROSS AREA) ATTACH TO OUTSIDE IF BLADE SEPARATION IS > 2 1/2".
5. CONSTRUCT EXTRUDED LOUVER OF NON-FERROUS CORROSION RESISTANT MATERIAL AND SECURE WITH STAINLESS STEEL FASTENERS.
6. PROVIDE BACKER ROD & 100% CLEAR MARINE GRADE SILICONE TO SEAL LOUVER.

2 NTS DETAIL – EXTERIOR LOUVER, TYP.



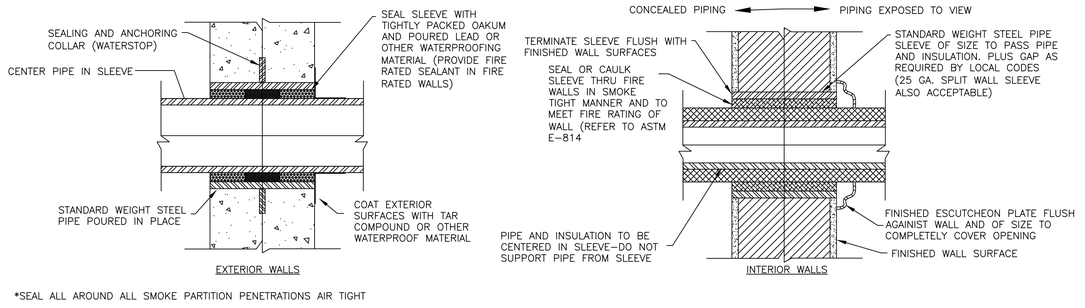


3 NTS DETAIL – TURNING VANES, TYPICAL



NOTES:
1. NO DUCTWORK OR PIPING TO BE ROUTED OVER DEDICATED ELECTRICAL ROOM.
2. NO PIPING TO BE ROUTED OVER DEDICATED MDF OR IDF ROOMS.

4 NTS DETAIL – ELECTRICAL EQUIPMENT COORDINATION WITH FOREIGN SYSTEMS PER NEC



*SEAL ALL AROUND ALL SMOKE PARTITION PENETRATIONS AIR TIGHT

5 NTS DETAIL – PIPE PENETRATION THRU WALL, TYPICAL

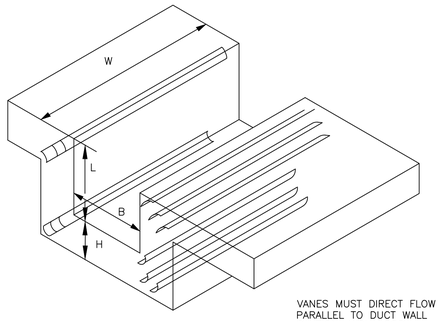


FIG. D

VANES MUST DIRECT FLOW PARALLEL TO DUCT WALL CAUTION: HIGH LOSS COEFFICIENTS

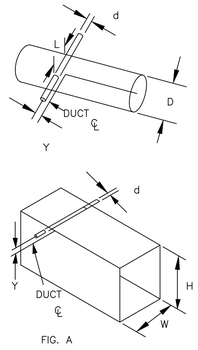


FIG. A

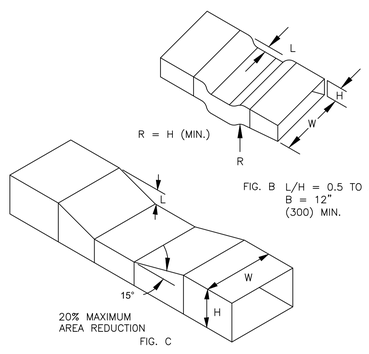
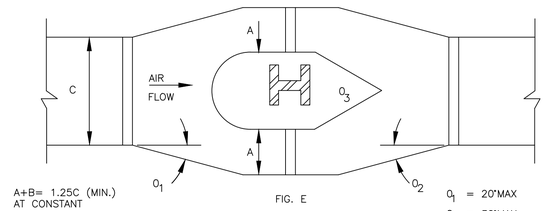


FIG. B L/H = 0.5 TO 2
B = 12" (300) MIN.

FIG. C



A+B= 1.25C (MIN.) AT CONSTANT DEPTH

FIG. E

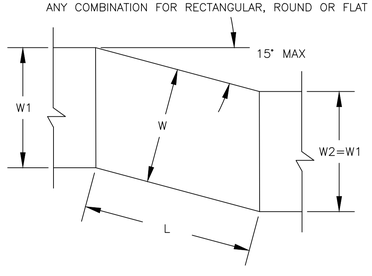
(USED WHEN OBSTRUCTION EXCEEDS 20% OF SECTION AREA AND OFFSETS AROUND ARE NOT POSSIBLE

O_1 = 20°MAX
O_2 = 30°MAX
O_3 = 60°MAX

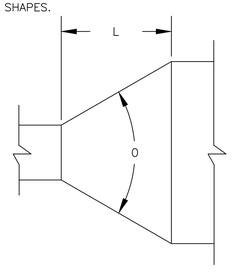
FIG. A IS APPLICABLE FOR UP TO 20% AREA OBSTRUCTION WITH ROUND SHAPED MEMBER AND 10%% WITH FLAT PROFILE. Y IS THE DISTANCE FROM DUCT CENTER.

6 NTS DETAIL – DUCTWORK TRANSITIONS FOR OBSTRUCTIONS

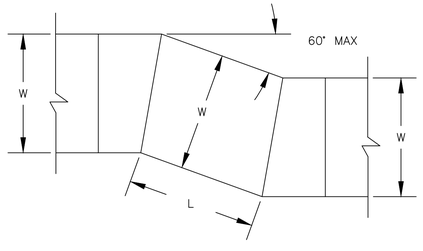
OFFSETS 2 AND 3 AND TRANSITIONS MAY HAVE EQUAL OR UNEQUAL INLET AND OUTLET AREAS. TRANSITIONS MAY CONVERT DUCT PROFILES TO ANY COMBINATION FOR RECTANGULAR, ROUND OR FLAT OVAL SHAPES.



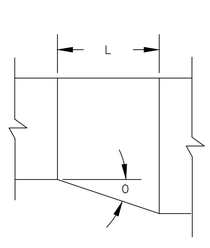
OFFSET TYPE 1 (ANGLED)



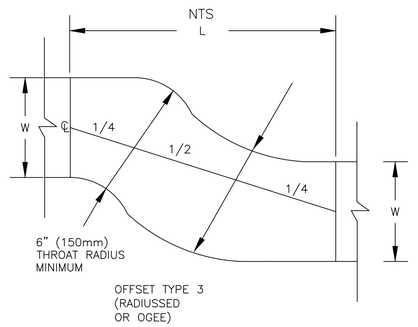
CONCENTRIC TRANSITION
0 MAX. 45 DIVERGING, 60° CONVERGING



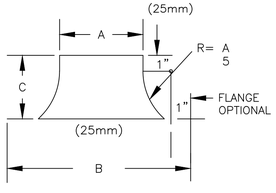
OFFSET TYPE 2 (MITERED)



ECCENTRIC TRANSITION
0 MAX. 30
(EXCEPT 45° IS PERMITTED AT ROUND TO FLAT OVAL



OFFSET TYPE 3 (RADIUSSED OR OGEE)



7 NTS DETAIL – DUCTWORK OFFSETS & TRANSITIONS

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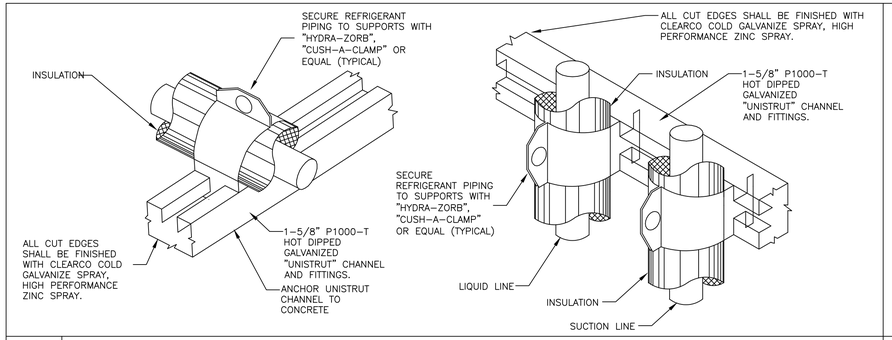
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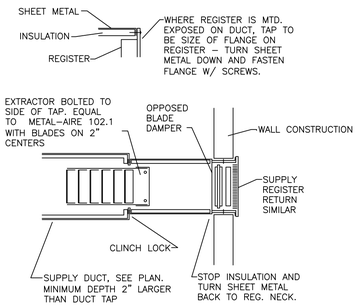
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MECHANICAL DETAILS

SHEET NUMBER:
M4.3

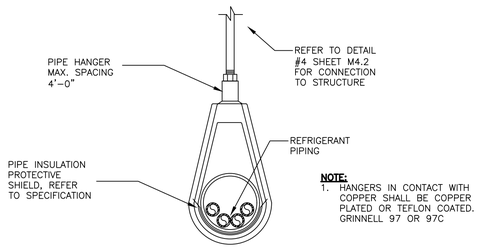
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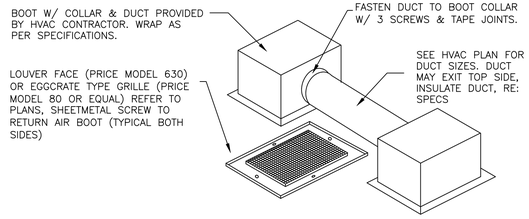
1 NTS DETAIL – REFRIGERANT PIPE WALL SUPPORTS, TYP.



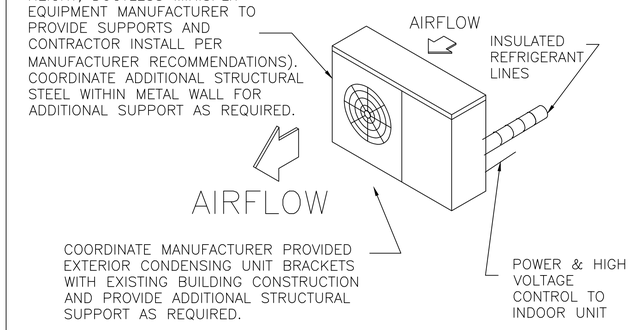
8 NTS DETAIL – SIDEWALL GRILLE, TYPICAL



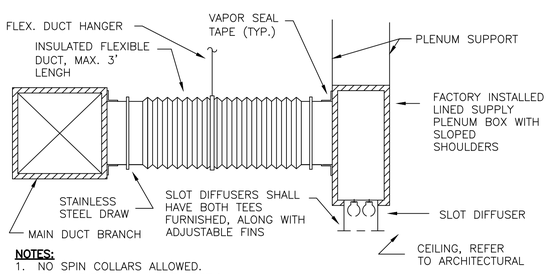
2 NTS DETAIL – REFRIGERANT PIPE HANGERS, TYP.



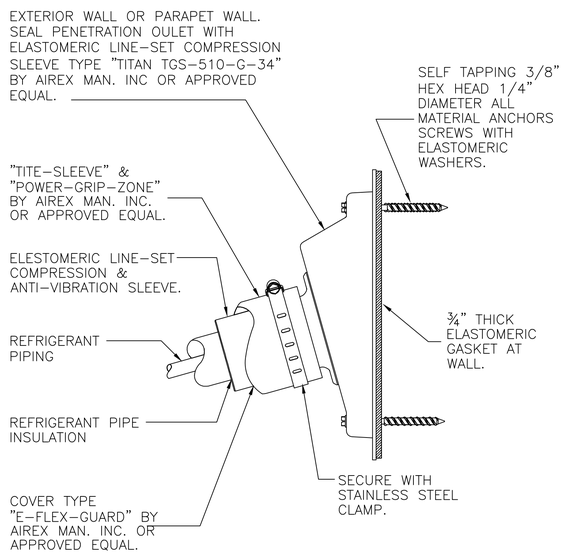
3 NTS DETAIL – AIR TRANSFER ASSEMBLY, TYPICAL



4 NTS DETAIL – EXTERIOR HEAT PUMP INSTALLATION

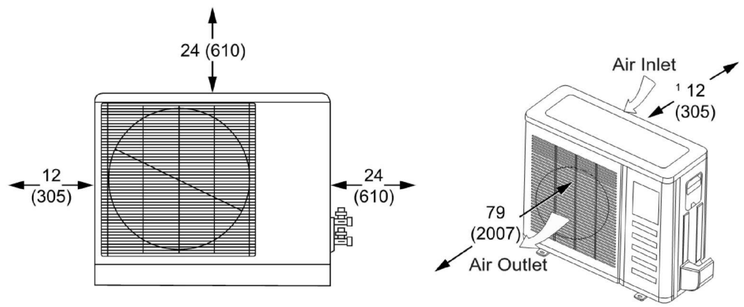


5 NTS DETAIL – BRANCH TO LINEAR DIFFUSER, TYP.

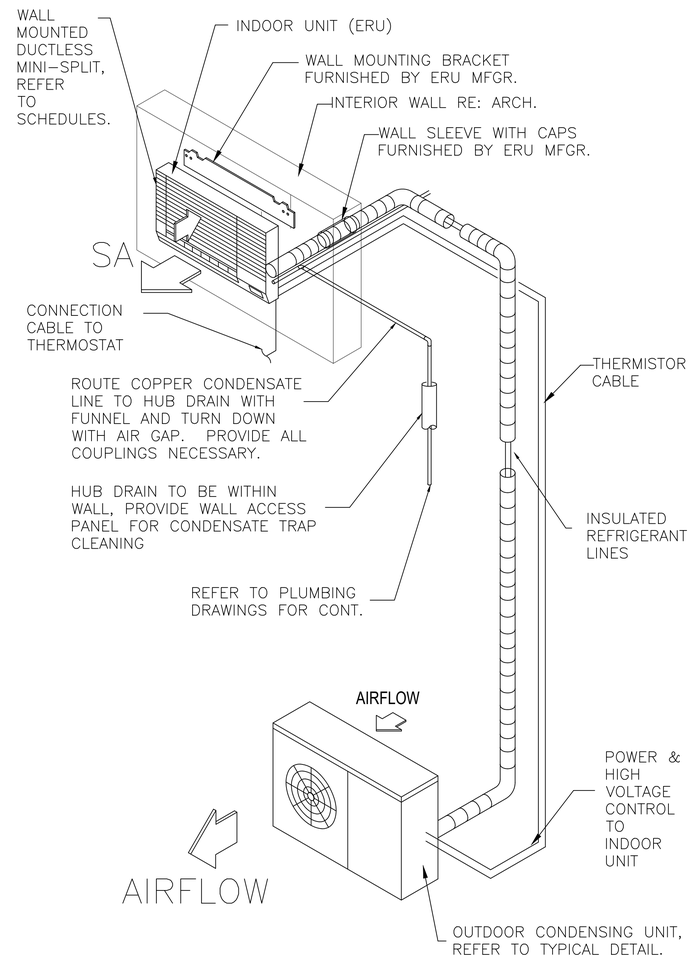


6 NTS DETAIL – EXTERIOR WALL REFRIGERANT PIPING PENETRATION

DETAIL – HEAT PUMP INSTALLATION CLEARANCES (TYPICAL OF ECU-1)



[1] Minimum rear clearance can be 6 inches (152 mm) when mounted on brackets and with no obstructions on the other three sides.



7 NTS DETAIL – DUCTLESS MINI-SPLIT INSTALLATION, TYPICAL

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE: MECHANICAL DETAILS

SHEET NUMBER: **M4.4**

EYRE ENGINEERING
PRINTED: 2.16.2026

MECHANICAL SPECIFICATIONS

15010 BASIC MECHANICAL REQUIREMENTS

GENERAL REQUIREMENTS

"PROVIDE" MEANS FURNISH AND INSTALL. THIS CONTRACTOR SHALL ALSO INSTALL MATERIALS FURNISHED "BY OTHERS" AND/OR OWNER.

GENERAL REQUIREMENTS AS LISTED IN THE SUBCONTRACT PURCHASE ORDER AGREEMENT SHALL BE INCLUDED AS PART OF THESE SPECIFICATIONS. WHERE THERE IS A CONFLICT THE SUBCONTRACT PURCHASE ORDER AGREEMENT SHALL GOVERN.

CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM. ALL EQUIPMENT AND RELATED ITEMS BY CONTRACTOR UNLESS OTHERWISE NOTED IN THESE SPECIFICATIONS.

IT IS THE INTENT OF THESE CONSTRUCTION DOCUMENTS TO DEPICT ENGINEERED DUCT, PIPE AND EQUIPMENT ARRANGEMENTS THAT MINIMIZE CONFLICTS AND/OR INTERFERENCES WITH STRUCTURES AND OTHER TRADES. FINAL CONSTRUCTION COORDINATION WITH OTHER TRADES TO AVOID SUCH CONFLICTS IS THE RESPONSIBILITY OF THIS CONTRACTOR.

DIFFERENCES AND/OR CONFLICTS BETWEEN CONTRACT DRAWING AND SPECIFICATION AND SHOP DRAWINGS, SHALL BE CALLED TO THE ENGINEERS ATTENTION. IF DIFFERENCES AND/ OR CONFLICTS ARE NOT NOTED TO CONTRACTOR PRIOR TO CONTRACT. CONTRACTOR SHALL DETERMINE GOVERNING CONDITION AND SUBCONTRACTOR SHALL PERFORM WORK AT NO ADDITIONAL COST TO THE OWNER.

TRADE NAMES ARE USED TO ESTABLISH QUALITY. SUBSTITUTIONS OF EQUAL QUALITY MAY BE USED IF PRIOR APPROVED BY THE ENGINEER.

RULES & REGULATIONS: ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND CODES. FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIALS AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS/ORDINANCES/CODES, EVEN IF THE WORK IS NOT SPECIFICALLY MENTIONED HEREIN OR ON THESE DRAWINGS.

LICENSES, PERMITS, AND FEES: THE CONTRACTOR SHALL PROVIDE, PROCURE, AND PAY FOR ALL PERMITS, LICENSES, FEES, ETC., REQUIRED TO CARRY ON AND COMPLETE THE WORK UNDER THIS SECTION.

RECORD DRAWINGS

PROVIDE RECORD DRAWINGS SHOWING LOCATIONS OF ALL CHANGES IN EQUIPMENT, PIPING AND DUCT ARRANGEMENTS. DRAWINGS SHALL BE RED PENCIL ON BLUE LINE PRINTS, DETAILS AND SCHEDULES AND SHALL BE KEPT UP TO DATE ON A DAILY BASIS. THESE DRAWINGS SHALL BE AVAILABLE TO THE BUILDER OR HIS REPRESENTATIVE AT THE JOB SITE.

AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT UPDATED PRINTS TO THE BUILDER, BEFORE RECEIPT OF FINAL PAYMENT.

MATERIALS FURNISHED BY OWNER

WILL BE RECEIVED, CHECKED IN UNDAMAGED AND WITH PROPER ACCESSORIES AND STORED AT THE SITE IN A CONVENIENT LOCATION FOR THE CONTRACTOR. UNLESS OTHERWISE SPECIFIED, ALL EQUIPMENT INDICATED IN THE SPECIFICATIONS, DETAILS SCHEDULES AND/OR ON THE DRAWINGS AS "FURNISHED BY OWNER" WILL BE FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR. ALL OTHER EQUIPMENT AND MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.

CONTRACTOR'S EQUIPMENT STORAGE

EQUIPMENT STORED AT THE SITE SHALL BE ADEQUATELY PROTECTED FROM THE WEATHER.

START UP

CONTRACTOR TO LUBRICATE BEARINGS AS REQUIRED, INSTALL BELTS AND CHECK FOR PROPER BELT TENSION AND MOTOR ROTATION, INSTALL ALL SAFETY DEVICES, RELIEF VALVES, AND FILTERS. CONNECT ALL DAMPER LINKAGES AND REMOVE ALL SHIPPING HOLD DOWN CLAMPS AND BLOCKING.

SYSTEM BALANCING

OBTAIN THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY WHICH SPECIALIZES IN THE TESTING, AND BALANCING OF HEATING, VENTILATING, AIR CONDITIONING SYSTEMS: TO TEST ADJUST, AND BALANCE ALL SUPPLY, RETURN AND EXHAUST SYSTEMS.

ALL WORK TO BE PERFORMED IN COMPLETE ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION, LATEST EDITION, THOSE SECTIONS APPLICABLE TO AIR DISTRIBUTION BALANCING.

EQUIPMENT SUPPORT

ALL MECHANICAL DEVICES AND EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT DEPEND UPON CEILING OR WALL SURFACES FOR THEIR SUPPORT. THEY SHALL BE INCAPABLE OF BEING ROTATED OR DISPLACED. THE SUPPORT ATTACHMENT SHALL ADEQUATELY SUPPORT THE WEIGHT OF THE FIXTURE, DEVICE, OR EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT.

TOUCH-UP AND COMPLETION

BUILDER WILL PAINT ALL EXTERIOR EXPOSED HVAC EQUIPMENT, INCLUDING DUCTS, PIPES, LOUVERS, ETC.

CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING AND KEEPING CLEAN HVAC EQUIPMENT DURING INSTALLATION, HVAC CONTRACTOR TO TEST EACH SYSTEM OR PIECE OF EQUIPMENT INSTALLED AND REPORT TO BUILDER ANY EQUIPMENT DAMAGE OR MAL- FUNCTION.

ELECTRICAL WIRING

ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL POWER WIRING, INCLUDING CONDUIT, WIRE AND CONNECTIONS. ALL STARTERS, FUSES AND DISCONNECTS BY OTHERS EXCEPT WHERE SPECIFIED AS PART OF PACKAGE EQUIPMENT. STARTERS THAT COME WITH EQUIPMENT SHALL BE AUTOMATIC AND HAVE T.O.L. APPROPRIATE COVERS AND INTERLOCKS. ALL MOTORS LESS THAN 1/2 HP ARE 115/60/1 WITH INTEGRAL THERMAL OVERLOAD UNLESS OTHERWISE SPECIFIED.

ELECTRICAL CONTRACTOR SHALL LABEL ALL REMOVABLE PANELS FOR DISCONNECTS IN EQUIPMENT CABINETS WITH NAMEPLATE FURNISHED BY BUILDER (LABELED "ELECTRICAL SERVICE DISCONNECT LOCATED BEHIND THIS PANEL").

SHOP DRAWINGS

SUBMIT TO THE ENGINEER FOR REVIEW IMMEDIATELY AFTER AWARD OF CONTRACT, SIX (6) COPIES OF COMPLETE DESCRIPTIVE INFORMATION AND DIMENSIONAL DATA ON ALL ITEMS OF EQUIPMENT, MATERIALS AND ACCESSORIES. SUBMIT ALL SHOP DRAWINGS AT ONE TIME. PIECE MEAL SUBMISSION SHALL NOT BE ACCEPTABLE.

"AS BUILT DRAWINGS": CONTRACTOR SHALL BE FURNISHED WITH ONE (1) SET OF BLUE LINE PRINTS, ON WHICH CONTR. SHALL SHOW ANY CHANGES IN THE WORK CAUSED BY UNFORSEEN CIRCUMSTANCES AND THESE DRAWINGS SHALL BE TURNED OVER TO THE ENGINEER IN GOOD ORDER PRIOR TO FINAL ACCEPTANCE OF THE BLDG. ENGINEER IN TURN PREPARE RECORD DRAWINGS FROM INFORMATION FURNISHED BY CONTR.

"PARTS CATALOG": FURNISH TO THE ENGINEER FOR THE OWNER, THREE (3) COMPLETE SETS OF PARTS CATALOGS AND OPERATING INSTRUCTIONS BOUND IN LARGE BINDERS FOR HIS USE. CONTR. SHALL INSTRUCT OWNER'S OPERATOR IN THE PROPER CARE, OPERATION, LUBRICATION, AND MAINTENANCE OF MECHANICAL EQUIPMENT INSTALLED.

GUARANTEE AND SERVICE

GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING DATE OF ACCEPTANCE. GUARANTEE ALL EQUIPMENT CONTAINING HVAC REFRIGERATION COMPRESSORS FULL FIVE (5) YEARS COVERING COMPRESSORS, LABOR, AND REFRIGERANT. GUARANTEE DOES NOT INCLUDE NORMAL MAINTENANCE ITEMS.

15050 BASIC MATERIALS AND METHODS

MECHANICAL IDENTIFICATION

EQUIPMENT STENCILS SHALL IDENTIFY THE TYPE AND SERVICE WITH THE SAME NAMES, NUMBERS, AND/OR LETTERS USED TO IDENTIFY THE EQUIPMENT ON THE DRAWINGS. ALL STARTERS SHALL BE SIMILARLY STENCILED. OMIT IDENTIFICATION OF MINOR HEATING EQUIPMENT LOCATED IN THE ROOM IT SERVES, SUCH AS CONVECTORS, FINNED PIPE, UNIT HEATERS, ETC.

VIBRATION ISOLATORS

INSTALL VIBRATION ISOLATORS AS SHOWN ON DETAILS OR AS NOTED ON SCHEDULES.

PIPE INSULATION

REFRIGERANT PIPING & CONDENSATE DRAIN LINES

INSTALL 1" ARMAFLEX PER MANUFACTURER'S INSTRUCTIONS. ALL OUTSIDE LINES TO BE PAINTED WITH ARMSTRONG OUTDOOR FINISH. MUST HAVE A CONTINUOUS SEALED VAPOR BARRIER ON ALL SUCTION LINES. INSULATE BOTH REFRIGERANT LINES (SUCTION & GAS).

HOT AND COLD WATER DOMESTIC PIPING

INSULATE ALL DOMESTIC COLD/HOT WATER PIPING WITH 1" THK. FIBERGLASS INSULATION WITH FRJ JACKET, ALL JOINTS AND ELBOWS SHALL BE NEATLY MITERED AND SEALED COVERED PVC COVER/JACKET.

REFRIGERANT PIPING

CONTRACTOR TO INSTALL PRECLEANED, (DRIED AND SEALED) FACTORY REFRIGERANT LINE SETS. SEE SCHEDULE AND DETAILS FOR SIZES AND ROUTING. LIQUID & SUCTION LINES SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH CONSIDERATION FOR ALL ACCESSORIES.

REFRIGERANT SYSTEMS PIPE WORK

PITCH HORIZONTAL PIPING DOWN IN THE DIRECTION OF REFRIGERANT FLOW NOT LESS THAN 1 INCH IN 40 FEET.

PROVIDE OIL TRAPS AND DOUBLE RISERS IN REFRIGERANT SUCTION AND HOT GAS LINES WHERE REQUIRED TO PREVENT OIL SLUGGING AT THE COMPRESSOR AND TO INSURE PROPER LUBRICATION.

SLEEVES

PIPE SLEEVES: WROUGHT IRON OR STEEL OF SUFFICIENT SIZE FOR PIPING INSTALLATION IN FLOORS, WALLS, BELOW GRADE, AND GRADE BEAMS WHERE PIPING PASSES THROUGH. PVC MAY ONLY BE USED WHERE SPECIFICALLY NOTED.

HANGERS AND SUPPORTS

HORIZONTAL PIPING ABOVE GRADE: RIGIDLY SUPPORTED ON MALLEABLE IRON SPLIT RING HANGERS; SUPPORTS FOR TWO OR MORE SYSTEMS OF PIPING RUN PARALLEL AND WITH SAME GRADE, TRAPEZE HANGERS MAY BE USED. USE ALL THREADED RODS FOR HANGERS AND SUPPORTS.

MAXIMUM SPACING OF SUPPORTS AND HANGERS FOR HORIZONTAL RUNS OF PIPE: FIVE (5) FEET FOR SOIL, TEN (10) FEET FOR OTHER SOIL PIPE EXCEPT SUPPORT PIPING 1-1/2" AND SMALLER EVERY SIX (6) FEET. PROVIDE GALVANIZED IRON SHIELDS BETWEEN HANGERS AND PIPE COVERING ON INSULATED PIPING. NO STRAP HANGERS OR WIRE WILL BE ACCEPTED.

SET INSERTS IN CONCRETE FOR HANGER RODS AND DUCT HANGERS WHERE APPLICABLE.

CONTR. SHALL SUPPORT DUCTWORK IN STRICT ACCORDANCE TO SMACNA STANDARDS, REFER TO DUCTWORK SPECIFICATION, THIS SHEET.

ACCESS PANELS

FACTORY MADE ACCESS DOORS AND FRAMES, PRIME COAT FINISH, SCREWDRIVER LATCH(S) OF SUITABLE SIZE AS REQUIRED. ACCESS PANELS IN RATED CEILING TO HAVE SAME RATING AS CEILING. ACCESS PANELS IN LINED DUCTWORK TO BE DOUBLE WALL TYPE WITH INSULATION SANDWICHED IN BETWEEN, SAME INSULATION VALUE AS ADJACENT DUCTWORK. WHERE VALVES, DAMPERS, CONTROLS, FIRE DAMPERS, SMOKE DAMPERS AND DETECTORS, REHEAT COILS, ETC. ARE CONCEALED IN WALLS OR NON- ACCESSIBLE CEILINGS, INSTALL FACTORY MADE ACCESS DOORS AND FRAMES. ACCESS PANELS TO BE 2 HR. RATED.

FLOOR, WALL AND CEILING PLATES (ESCUTCHEONS)

WHERE ANY PIPE OR RISERS PASS EXPOSED THROUGH WALLS, PARTITIONS, FLOORS OR CEILING, USED CHROME PLATED FLOOR OR CEILING PLATES. PLATES SHALL BE LARGE ENOUGH TO COMPLETELY CLOSE HOLE AROUND THE PIPES AND BE ROUND WITH THE LEAST DIMENSION NOT LESS THAN 1-1/2" LARGER THAN THE DIAMETER OF THE PIPE. PLATES SHALL BE SECURED IN AN APPROVED MANNER.

CUTTING AND PATCHING

CUT ALL OPENINGS AS REQUIRED FOR THE WORK UNDER THIS SECTION. PATCHING SHALL BE DONE BY THE CRAFT WHOSE WORK IS INVOLVED. FURNISH AND INSTALL ALL NECESSARY SLEEVES, THIMBLES, HANGERS, INSERTS, ETC., AT SUCH TIME AND IN SUCH A MANNER SO AS NOT TO DELAY OR INTERFERE WITH WORK OF OTHER TRADES. NO BEAMS OR JOISTS SHALL BE CUT. AFTER RESURFACING HAS BEEN DONE, ANY FURTHER CUTTING, PATCHING AND PAINTING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL DO ALL REPAIRS AND PATCHING TO DAMAGE CAUSED BY WORK UNDER THIS SECTION. THESE REPAIRS SHALL BE DONE IN A MANNER SATISFACTORY TO THE ARCHITECT/OWNER.

PIPE PENETRATIONS

ALL PIPE (MECHANICAL, PLUMBING, ETC.) PENETRATIONS OF ROOF, WALLS, FLOORS, CEILINGS, ETC. SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING, FIRE RATING, & SOUND PROOFING FOR WHICH THE ROOF, WALL, FLOOR, CEILING, ETC. IS DESIGNATED. REFER TO ARCHITECTURAL PLANS AS MATERIALS AND METHODS USED SHALL CONFORM TO THOSE SPECIFIED UNDER ARCHITECTURAL SECTIONS. COORDINATE AND OBTAIN OWNER/ARCHITECT'S APPROVAL PRIOR TO MAKING ANY PENETRATION THROUGH ROOFING SYSTEM OR FOUNDATION WALLS.

15400 PLUMBING

GENERAL

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (2015 EDITION WITH LOUISIANA AMENDMENTS) ALONG WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
2. SLOPE DRAINAGE LINES, 3" AND SMALLER, 1/4" PER FOOT AND LINES 4" AND LARGER 1/8" PER FOOT.
3. ALL PIPES THRU WALLS TO BE EQUIPPED WITH ESCUTCHEONS, CHROME PLATED.
4. SANITARY SEWER PIPING: ASTM D2665, PVC-DWV, SOLID WALL (CELLULAR CORE NOT ALLOWED) SCHEDULE 40 SEWER PIPE WITH PVC FITTINGS, SOLVENT WELD JOINTS, ASTM D2665.
5. WATER PIPING:
   - 5.1. COPPER TUBING, ASTM B88 TYPE "L" SOFT DRAWN (UNDERGROUND) AND TYPE "L" HARD DRAWN (ABOVE SLAB) WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI/ASME B16.22, ANSI/ASME B16.18, SOCKET COPPER FITTINGS. SILVER SOLDERED (BRAZED) JOINTS (ANSI B31.1, SECTION 6) FOR ALL COPPER JOINTS UNDERGROUND.
6. CONTRACTOR SHALL PROVE EITHER AIR CHAMBERS (MIN. 18" HIGH) OR SHOCK ABSORBERS AT ALL FIXTURES TO PREVENT WATER HAMMER, APPLIES ALL RISER DIAG.
7. SUPPORT ALL PIPING WITH CLEVIS TYPE HANGERS, EIGHT (8) FOOT CENTERS.
8. PLUMBING CONTRACTOR SHALL INSTALL AND CONNECT ALL OWNER FURNISHED EQUIP. REQUIRING SERVICES (WATER OR SANITARY WASTE), COORDINATE WITH OWNER/ARCHITECT.
9. CONTRACTOR SHALL CONNECT SERVICES FOR RENOVATION TO EXISTING PLUMBING SERVICES.
10. CONTRACTOR SHALL PROVIDE EXTERIOR CLEANOUTS EVERY 75 FEET AND AT ALL TURNS.

15650 REFRIGERATION

AIR HANDLING UNIT / HEAT PUMP UNIT

CONTRACTOR SHALL PROVIDE SPLIT TYPE DX AIR CONDITIONING SYSTEM COMPRISING OF REFRIGERANT COOLING/HEATING COIL(S). UNITS SIZED AND CAPACITY SHALL BE AS SPECIFIED ON THE DRAWINGS. INSTALL HVAC UNIT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES.

15850 AIR HANDLING

ALL RIGHTS AND LEFTS FOR FAN UNITS SHALL BE DETERMINED BY LOOKING INTO THE AIR OUTLET. CLOCKWISE AND COUNTERCLOCKWISE ROTATION SHALL BE DETERMINED BY VIEWING FROM THE DRIVE SIDE.

EXHAUST FANS

CONTRACTOR SHALL PROVIDE & INSTALL EXHAUST FANS OF TYPE, CAPACITY AND SIZED AS SPECIFIED IN THE EXHAUST FAN EQUIPMENT SCHEDULE.

15880 AIR DISTRIBUTION

DUCTWORK

VERIFY ALL DIMENSIONS. DIMENSIONS SHOWN ARE METAL TO METAL. ALL DUCTWORK SHALL HAVE MAXIMUM 5% AIR LEAKAGE.

GALVANIZED SHEET METAL DUCTWORK FIRST QUALITY, COLD ROLLED, GALVANIZED, OPEN HEARTH SOFT STEEL SHEETS, CAPABLE OF DOUBLE SEAMING WITHOUT FRACTURE. TRANSVERSE JOINTS ON RECTANGULAR DUCTWORK WITH SLIPS AND DRIVES SHALL HAVE DRIVES BENT OVER AT CORNERS. GAUGES AND JOINT CONNECTORS PER LOCAL CODES, SMACNA OR ASHRAE RECOMMENDATIONS AND THE FOLLOWING UNLESS OTHERWISE NOTED. FLEX DUCT NOT PERMITTED.

ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARD, 2 INCH S.P. WITH THE FOLLOWING METAL THICKNESS.

ROUND DUCTS - SNAP LOCK
UP TO 12 INCH DIAMETER #26 GAUGE MINIMUM.
13 INCH TO 18 INCH DIAMETER #24 GAUGE MINIMUM.
19 INCH TO 24 INCH DIAMETER #22 GAUGE MINIMUM.

SPIRAL LOCK SEAM ROUND DUCTS MAY BE ONE GAUGE LIGHTER THAN GAUGES

RECTANGULAR DUCTS AND PLENUMS
MAXIMUM SIDE UP TO 12 INCH #26 GAUGE MINIMUM.
MAXIMUM SIDE 13 INCH TO 30 INCH #24 GAUGE MINIMUM.
MAXIMUM SIDE 31 INCH TO 50 INCH #22 GAUGE MINIMUM.
MAXIMUM SIDE 51 INCH TO 84 INCH #20 GAUGE MINIMUM.
MAXIMUM SIDE 85 INCH AND UP #18 GAUGE MINIMUM.

AS NOTED ON DRAWINGS #16 GAUGE.

FOR GREATER THAN 24 INCHES USE REINFORCEMENT AS LISTED IN LATEST SMACNA LOW PRESSURE SHEET METAL CONSTRUCTION GUIDE, SECURELY HUNG, BRACED AND STIFFENED TO PREVENT BREATHING, RATTLING, VIBRATION OR SAGGING.

DUCT SIZES 19 INCHES WIDE AND LARGER WHICH HAVE MORE THAN 10 SQUARE FEET OF UNBRACED PANEL SHALL BE CROSS BROKEN OR BEADED.

SUPPORT ALL DUCTS IN ACCORDANCE WITH SMACNA, EXCEPT WIRE HANGERS SHALL NOT BE PERMITTED. DUCTS 36 INCHES OR LARGER SHALL HAVE TRAPEZE TYPE HANGERS SUSPENDED WITH THREADED ROD.

SEAL ALL DUCTWORK SERVING SYSTEMS HAVING FANS RATED FOR LESS THAN 2 INCHES STATIC PRESSURE IN ACCORDANCE WITH SMACNA, SEAL CLASS C. ALL TRANSVERSE JOINTS, FITTING CONNECTIONS, AND SQUARE OR RECTANGULAR TO ROUND CONNECTIONS IN DUCTWORK SHALL BE SEALED USING ADHESIVE TYPE SLIPS, DUCT SEALER OR HARD CAST. ROUND TO ROUND CONNECTIONS WITH FIRM FIT AND SEALED, SEAL ALL DUCTWORK SERVING SYSTEMS HAVING FANS RATED FOR 2 INCHES STATIC PRESSURE OR GREATER IN ACCORDANCE WITH SMACNA SEAL CLASS A. ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS TO BE SEALED.

BRANCH TAKEOFFS NOT TO EXCEED 45 DEGREES. PROVIDE A VOLUME DAMPER IN EACH AND EVERY BRANCH OF SUPPLY, RETURN AND EXHAUST DUCT. (SEE FLOOR PLANS AND DETAILS).

CANVAS CONNECTORS

18 OUNCE FIREPROOF CANVAS OR NEOPRENE AT ALL FANS AND HVAC UNITS (EXCEPT ROOF VENTILATORS AND VANE AXIAL FANS WITH COMPANION FLANGES).

DUCT INSULATION

INSULATION PRODUCTS PER NFPA-90A WITH 25 OF LESS FLAME SPREAD AND 50 OR LESS SMOKE DEVELOPMENT RATINGS. NO PLASTIC LINERS OR COVERS

DUCT LINER INSULATION

OWENS-CORNING AEROFLEX OR EQUIVALENT MANVILLE LINACOUSTIC OR KNAUF DUCT LINER M FIRE RESISTANT MATT FACED GLASS FIBER DUCT LINER. 1-1/2 LB. DENSITY. CERTIFIED EROSION RESISTANT DUCT LINER FOR DUCT AIR VELOCITIES UNDER 2000 F/P/M. K APPROX. 0.24 AT 50 DEGREES F. DUCT LINER SHALL BE ADHERED TO THE SHEET METAL WITH A 100% COVERAGE OF ADHESIVE, AND ALL EXPOSED LEADING EDGES AND ALL TRANSVERSE JOINTS COATED WITH ADHESIVE. DUCT LINER SHALL BE CUT TO ASSURE OVERLAPPED AND COMPRESSED LONG-LONGITUDINAL CORNER JOINTS. THE DUCT LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS WHICH SHALL COMPRESS THE DUCT LINER SUFFICIENTLY TO HOLD IT FIRMLY IN PLACE.

FASTENERS SHALL START WITHIN 3 INCHES OF THE UPSTREAM TRANSVERSE EDGES OF THE DUCT LINER AND 3 INCHES FROM THE LONGITUDINAL JOINTS AND SHALL BE SPACED AR A MAXIMUM OF 12 INCHES O.C. AROUND THE PERIMETER OF THE DUCT, EXCEPT THAT THEY MAY BE A MAXIMUM OF 12 INCHES FROM A CORNER BREAK. ELSEWHERE THEY SHALL BE A MAXIMUM OF 18 INCHES O.C. EXCEPT THAT THEY SHALL BY PLACED NOT MORE THAN 6 INCHES FROM A CORNER BREAK.

DUCT WRAP INSULATION

OWENS-CORNING FIBERGLASS ALL-SERVICE FACED DUCT WRAP INSULATION, OR EQUAL. INSTALL DUCT WRAP INSULATION WITH FACING OUTSIDE SO THAT TAPE FLAP OVERLAPS INSULATION AND FACING OF ADJACENT PIECE OF DUCT WRAP. INSULATION SHALL BE TIGHTLY BUTTED. IF DUCTS ARE RECTANGULAR INSTALL SO INSULATION IS NOT EXCESSIVELY COMPRESSED AT DUCT CORNERS. SEAMS SHALL BE STAPLED APPROXIMATELY 6 INCHES ON CENTER WITH OUTWARD CLINCHING STAPLES. SEAL SEAMS WITH PRESSURE-SENSITIVE TAPE MATCHING THE FACING. WHERE RECTANGULAR DUCTS ARE 24 INCHES IN WIDTH OR GREATER, DUCT WRAP INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SUCH AS PINS AND SPEED CLIP WASHERS, SPACED ON 18 INCH CENTERS (MAXIMUM) TO PREVENT SAGGING OF INSULATION. ADJACENT SECTIONS OF WRAP INSULATION SHALL BE TIGHTLY BUTTED WITH THE 2 INCH TAPE FLAP OVERLAPPING. SEAL ALL TEARS, PUNCTURES AND OTHER PENETRATIONS OF THE DUCT WRAP INSULATION FACING WITH TAPE OR MASTIC TO PROVIDE A VAPOR TIGHT SYSTEM.

MISCELLANEOUS SCHEDULE

FLOOR DRAIN SCHEDULE:

1. FD: JOSAM SERIES 30000-A CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE AND 1/2" PRIMER TAP, WEJALOC INVERTIBLE FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET CONNECTION AND NIKALOY ADJUSTABLE ROUND SUPER-FLO STRAINER, ½" PRIMER TAP.

FLOOR SINK SCHEDULE:

1. FS: JOSAM 49500-NB SERIES ROUND CAST IRON 3-9/16" DEEP SUPERFLO-SEPTOR® FLOOR SINK WITH ACID RESISTING INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, INSIDE CAULK BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, NIKALOY SANITARY SLOPED RIM AND NIKALOY LIGHTY-DUTY SUPER FLO ANTI-TILTING GRATE, SEDIMENT BUCKET.

CLEANOUT SCHEDULE:

1. CO: CLEANOUT SHALL HAVE CAST IRON BODY, ADJUSTABLE ROUND SCORIATED NICKEL BRONZE COVER AND RIM, SECURING SCREW, AND COUNTERSUNK BRONZE PLUG WITH TAPER THREADS. CLEANOUT SHALL BE FLUSH TO FINISHED FLOOR. CLEANOUT SHALL BE MANUFACTURED BY JR SMITH, JOSAM, WADE, ZURN, MIFAB OR PRIOR APPROVED EQUAL.

DUCT INSULATION LOCATION

EXHAUST/FRESH AIR DUCTS

WRAP ALL RECTANGULAR/ROUND EXHAUST & FRESH AIR DUCTS/PLENUMS/BOOTS WITH 3" THICK DUCT WRAP INSULATION. WRAP FOR ENTIRE LENGTH. ENTIRE EXHAUST & FRESH AIR DUCT SYSTEM TO BE INSULATED.

SUPPLY AIR DUCTS

LINE ALL RECTANGULAR SUPPLY AIR DUCTS & DIFFUSER BOOTS WITH 1" THICK DUCT LINER & WRAP WITH 3" DUCT WRAP INSULATION. WRAP ALL RECTANGULAR/ROUND SUPPLY AIR DUCTS WITH 3" DUCT WRAP INSULATION. LINE & WRAP ALL DUCTWORK IN ATTIC SPACES IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE (2021 EDITION).
*PROVIDE NEW INSULATION FOR ALL EXISTING DUCTWORK THAT IS TO REMAIN AND BE REUSED (REMOVE EXISTING DUCT WRAP AND HAUL OFF SITE AS DEBRIS).

RETURN AIR DUCTS

LINE ALL RETURN AIR PLENUMS AT AIR HANDLING UNITS & RECTANGULAR RETURN AIR DUCTS WITH 1" THICK DUCT LINER & WRAP WITH 3" DUCT WRAP INSULATION. LINE ALL DUCTED RETURN GRILLE BOOTS WITH 1" THICK DUCT LINER & WRAP WITH 3" DUCT WRAP. PROVIDE & INSTALL RETURN GRILLE ACOUSTICAL PLENUMS AT ALL RETURN AIR DEVICES. WRAP ALL RECTANGULAR/ROUND DUCTS WITH 3" THICK DUCT WRAP INSULATION. LINE AND WRAP ALL DUCTWORK IN ATTIC SPACES IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION CODE (2021 EDITION).
*PROVIDE NEW INSULATION FOR ALL EXISTING DUCTWORK THAT IS TO REMAIN AND BE REUSED (REMOVE EXISTING DUCT WRAP AND HAUL OFF SITE AS DEBRIS).

DUCT ACCESSORIES

TURNING VANES

TURNING VANES TO BE DOUBLE WALL FABRICATED PER SMACNA STANDARDS

VOLUME DAMPERS

MANUAL VOLUME DAMPERS, FABRICATED PER SMACNA STANDARDS, WITH LOCKING QUADRANT. PROVIDE MULTIBLADE DAMPERS FOR ALL DUCTS 12 INCHES DEEP AND LARGER.

BALANCING DAMPERS WIDTH OF THE BRANCH TAKEOFF. PROVIDE CEILING ACCESS FOR OPERATING DAMPERS. LEAVE ALL DAMPERS OPEN. VOLUME DAMPERS WHERE SHOWN ON DRAWING.

FOR ROUND DUCTS, HART & COOLEY #607 AND #608, OR EQUIVALENT, WITH 2 BEARING POINTS AND HANDLE AND WING NUT ASSEMBLY.

BACKDRAFT DAMPERS

INSTALL PER MANUFACTURER'S INSTRUCTIONS. SEE SCHEDULE. INTERLOCKED, FELT EDGED BLADE, ADJUSTABLE SPRING LOADED. PREFCO PHL, OR EQUIVALENT.

DUCT ACCESS PANELS

FOR MAINTENANCE, CLEANING, RESETTING OR EXAMINATION. AIR TIGHT HINGED ACCESS DOORS WITH FELT OR TUBULAR NEOPRENE GASKET. WITH CAM LATCHES (NOT SCREWS). KARP OR EQUIVALENT. INSULATED AT INSULATED DUCTS.

GRILLES AND DIFFUSERS

ALL GRILLES AND DIFFUSERS SHALL BE AS INDICATED ON THE PLANS AND SHALL BE EQUIPPED WITH OPPOSED BLADE DAMPERS AND HAVE A WHITE BAKED ON ENAMEL FINISH UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

FILTERS

FILTERS FURNISHED WITH ALL RETURN AIR GRILLES. SEE SCHEDULES. SPARE FILTERS PROVIDED WHERE INDICATED IN SCHEDULE. HVAC CONTRACTOR IS REQUIRED DURING AND AT THE COMPLETION OF THE BUILDING CONSTRUCTION TO PROVIDE NEW REPLACEMENT AIR FILTERS OF EQUAL EFFICIENCY AT ALL HVAC UNITS USED DURING CONSTRUCTION.

MECHANICAL NOTES:

1. HVAC SYSTEM/CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES/STANDARDS:
   - 1.1. 2021 INTERNATIONAL BUILDING CODE
   - 1.2. 2021 INTERNATIONAL ENERGY CONSERVATION CODE
   - 1.3. 2021 INTERNATIONAL FUEL GAS CODE
   - 1.4. 2021 INTERNATIONAL MECHANICAL CODE
   - 1.5. 2021 INTERNATIONAL PLUMBING CODE (WITH LOUISIANA AMENDMENTS)
   - 1.6. NFPA 90A (CURRENT EDITION)
2. MAINTAIN VENTILATION AND EXHAUST RATES SHALL BE IN ACCORDANCE WITH ASHRAE STANDARD 62.1 (CURRENT EDITION) & 2021 INTERNATIONAL MECHANICAL CODE.
3. PROVIDE MANUAL VOLUME DAMPER AT ALL BRANCH DUCTS.
4. PROVIDE PLASTER FRAME FOR ALL SUPPLY AIR DEVICES LOCATED IN HARD CEILINGS.

GENERAL PLUMBING NOTES:

1. PLUMBING SYSTEM/CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES/STANDARDS:
   - 1.1. 2021 INTERNATIONAL BUILDING CODE
   - 1.2. 2021 INTERNATIONAL ENERGY CONSERVATION CODE
   - 1.3. 2021 INTERNATIONAL FUEL GAS CODE
   - 1.4. 2021 INTERNATIONAL MECHANICAL CODE
   - 1.5. 2021 INTERNATIONAL PLUMBING CODE (WITH LOUISIANA AMENDMENTS)
   - 1.6. NFPA 90A (CURRENT EDITION)
2. CONTRACTOR TO VERIFY DEPTH/ELEVATION/INVERTS OF ALL EXISTING SANITARY SEWER, DOMESTIC WATER, ETC. PRIOR TO ANY AND ALL CONSTRUCTION. IF EXISTING PIPING IS AT AN ELEVATION THAT DOES NOT PROPERLY ALLOW FOR THE INSTALLATION OF NEW UTILITIES THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY FOR FURTHER ACTION.

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PROFESSIONAL ENGINEER
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EUNICE RENOVATION
101

SPECIFICATION 15415: NATURAL GAS SYSTEM

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
1.2 SUMMARY
A. WORK INCLUDED
1. PIPE STANDARD COMPLIANCE CERTIFICATES.
2. GAS PIPING & FITTINGS.
3. PIPE CONNECTION METHODS.
4. GAS CONNECTION TO EQUIPMENT
B. DESCRIPTION
1. PROVIDE SYSTEM OF NATURAL GAS PIPING TO ALL EQUIPMENT REQUIRING GAS. FEES FOR SUCH WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO PROVIDE A COMPLETE AND WORKING SYSTEM & INCLUDE ALL ASSOCIATED COSTS (INCLUDING REPLACEMENT OF REGULATOR & METER AS REQUIRED).
1.3 SUBMITTALS
A. GENERAL: ALL SUBMITTALS SHALL COMPLY WITH THE REQUIREMENTS OF DIVISION 1 – GENERAL REQUIREMENTS AND GENERAL PROVISIONS.
B. PRODUCT DATA: DATA SHALL BE SUBMITTED ON THE FOLLOWING ITEMS:
1. PIPE STANDARD COMPLIANCE CERTIFICATES.
2. GAS PIPING & FITTINGS.
3. PIPE CONNECTION METHODS.
4. GAS CONNECTION TO EQUIPMENT
1.4 QUALITY ASSURANCE
A. STANDARDS
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
A. STANDARD B16.3, MALLEABLE IRON FITTINGS, 1977 EDITION.
B. STANDARD B16.5, STEEL PIPE FLANGES AND FLANGED FITTINGS, JOINT PRESSURE FITTINGS, 1981 EDITION.
C. STANDARD B16.18, CAST COPPER ALLOY SOLDER – JOINT PRESSURE FITTINGS, 1978 EDITION.
D. STANDARD B16.21, NON–METALLIC GASKETS FOR PIPE FLANGES, 1962 EDITION.
E. STANDARD B16.22, WROUGHT COPPER AND BRONZE SOLDER – JOINT PRESSURE FITTINGS, 1980 EDITION.
F. STANDARD B31.1, POWER PIPING AND ADDENDUM, 1977 EDITION.
2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
A. STANDARD A120, PIPE, STEEL, BLACK AND HOT–DIPPED ZINC–COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY USES, 1983 EDITION.
B. STANDARD A234, SPECIFICATION FOR PIPING FITTINGS OF WROUGHT CARBON STEEL AND ALLOY STEEL FOR MODERATE AND ELEVATED TEMPERATURES, 1982 EDITION.
C. STANDARD A307, CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS, 1982 EDITION.
D. STANDARD B88, SPECIFICATION FOR SEAMLESS COPPER WATER TUBE, 1983 EDITION.
E. STANDARD D2513, STANDARD SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING, AND FITTINGS, 1984 EDITION.
3. FEDERAL SPECIFICATIONS (FED. SPEC.):
A. SPECIFICATION WW–U–516C, UNIONS, BRASS AND BRONZE, THREADED PIPE CONNECTIONS, AND SOLDER JOINT TUBE CONNECTIONS.
B. SPECIFICATION WW–U–531E, UNION, PIPE, STEEL OR MALLEABLE IRON, THREADED CONNECTION, 150 LBS. AND 250 LBS.

B. QUALIFICATIONS OF MANUFACTURER:
1. PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES.

C. QUALIFICATION OF INSTALLERS:
1. ALL WELDERS EMPLOYED FOR THE WORK SHALL BE QUALIFIED UNDER THE REQUIREMENTS OF ANSI B31.2.0, SECTION 127.5. CERTIFICATION OF WELDERS QUALIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER BEFORE ANY WELDS ARE MADE.

PART 2 PRODUCTS
2.1 GENERAL
A. ALL GAS EQUIPMENT SPECIFIED HEREIN SHALL BE DESIGNED AND CONSTRUCTED FOR USE WITH NATURAL GAS.
2.2 PIPE AND FITTINGS
A. PIPE AND FITTINGS SHALL BE LISTED HEREIN AND USED ON THE SERVICES INDICATED.
B. SCHEDULE 40 BLACK STEEL PIPE, ASTM A153, WITH WELDED JOINTS AND STANDARD WEIGHT BLACK STEEL BUTT WELDING FITTINGS, ASTM A234, FOR:
1. ABOVE GROUND GAS PIPING 2–1/2" IN SIZE AND LARGER DOWNSTREAM OF REGULATOR.
C. SCHEDULE 40 BLACK STEEL PIPE, ASTM A120, WITH SCREWED JOINTS AND 150 POUND THREADED MALLEABLE IRON FITTINGS, ANSI B16.3, FOR:
1. ABOVE GROUND GAS PIPING 2" IN SIZE AND SMALLER DOWNSTREAM/UPSTREAM OF REGULATOR.
D. POLYETHYLENE PIPE: ASTM D2513, SDR 11.5, WITH FITTINGS: ASTM D2683 TO ASTM D2513, SOCKET TYPE AND JOINTS SHALL BE FUSION WELDED, FOR:
1. GAS PIPING INSTALLED UNDERGROUND

2.3 UNIONS
A. UNIONS IN COPPER TUBING SHALL BE CAST BRONZE, FED. SPEC., WW–U–516C, WITH THREADED OR SOLDER JOINT ENDS TO MATCH PIPE CONNECTIONS.
B. UNIONS IN STEEL PIPING SHALL VE 150 POUND MALLEABLE IRON, FED. SPEC. WW–U–531E, WITH THREADED ENDS TO MATCH PIPE CONNECTIONS.
C. UNIONS BETWEEN FERROUS AND NON–FERROUS PIPING SHALL BE DIELECTRIC.
2.4 FLANGES
A. FLANGES IN STEEL PIPE SHALL BE 150 POUND STEEL, ANSI B16.5, SLIP–ON TYPE WELDING FLANGE WITH RAISED OR FLAT FACE TO MATE WITH ADJACENT FLANGES, VALVE, FITTINGS, OR PIECE EQUIPMENT.
B. FLANGES BETWEEN FERROUS AND NON–FERROUS PIPING SHALL BE DIELECTRIC TYPE.
C. FLANGE GASKETS SHALL BE 1/16 INCH NON–METALLIC, RING TYPE, ANSI B16.21.
D. FLANGE BOLTS SHALL BE CARBON STEEL, ALL THREADED TYPE. NUTS SHALL BE CARBON STEEL HEXAGON TYPE. STEEL FOR BOLTS AND NUTS SHALL CONFORM TO ASTM A307, GRADE A.
2.5 GAS CONNECTION TO EQUIPMENT
A. THE CONTRACTOR SHALL PROVIDE FINAL CONNECTION OF ALL EQUIPMENT WITH SHUTOFF VALVE, UNION, & DRIP LEG. INSTALL CONNECTION TO EQUIPMENT IN STRICT ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES.
2.8 SINGLE SEAL ANODELESS RISERS
A. PROVIDE SINGLE SEAL ANODELESS RISER (PREMANUFACTURED EPOXY COATED STEEL TO POLYETHYLENE GAS PIPE RISER)AS MANUFACTURED BY ELSTER PERFECTION. PROVIDE SINGLE FUSED JOINT UNDER GRADE AT RISER CONNECTION TO POLYETHYLENE PIPING (MEDIUM DENSITY PE2406).
1. PROVIDE WHERE GAS PIPING EXTENDS FROM BELOW GRADE TO ABOVE GRADE.
2. PROVIDE AT ALL GAS PIPING ENTRY POINTS INTO BUILDING.
2.9 VALVES FOR NATURAL GAS SYSTEM
A. GAS COCKS
A.A. UP TO 2 INCHES: BRONZE BODY, BRONZE TAPERED PLUG, NON–LUBRICATED, TEFLON PACKING, THREADED ENDS.
A.B. OVER 2 INCHES: CAST IRON BODY AND PLUG, NON–LUBRICATED, TEFLON PACKING, FLANGED ENDS.
A.C. POWELL MODEL 961, MUELLER MODEL H–1170, OR APPROVED EQUAL.

PART 3 EXECUTION
3.1 INSTALLATION
A. A VALVE AND UNION SHALL BE PROVIDED AT EACH CONNECTION TO A PIECE OF EQUIPMENT. EQUIPMENT PROVIDED WITH A FLANGED INLET SHALL HAVE A FLANGED CONNECTION.
B. HORIZONTAL GAS PIPING SHALL SLOPE UP IN THE DIRECTION OF FLOW NOT LESS THAN 1/4 INCH IN 15 FEET.
C. DRIP LEGS, 6–INCHES LONG, SHALL BE PROVIDED IN GAS PIPING AT ENDS OF HORIZONTAL RUNS, AT THE BASE OF RISERS, AND AT CONNECTIONS TO EQUIPMENT.
D. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OR SIDES OF HORIZONTAL LINES BUT NOT FROM THE BOTTOM.
E. CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS. NO BUSHINGS WILL BE ALLOWED.
F. CONTRACTOR SHALL OBTAIN PRICES FROM THE LOCAL GAS COMPANY FOR THEIR SERVICES IF REQUIRED OR APPLICABLE. PRICES SHALL INCLUDE ALL NECESSARY EQUIPMENT, LABOR, ETC. FOR NEW GAS SYSTEM INCLUDING BUT NOT LIMITED TO REPLACEMENT OF METER & REGULATOR IF REQUIRED. CONTRACTOR'S BID SHALL INCLUDE THE COST FOR THESE SERVICES.
G. A STEEL STRIKER BARRIER NOT LESS THAN 0.0508" THICK, OR EQUIVALENT, SHALL BE INSTALLED BETWEEN THE GAS TUBING (WITHIN WALLS) AND THE FINISHED WALL AND EXTEND A MINIMUM OF 4" BEYOND THE CONCEALED PENETRATIONS OF PLATES, FIRE STOPS, WALL STUDS, AND SO FORTH.
H. ALL GAS PIPING WILL BE COATED USING A HIGH QUALITY SOLVENT BASED PAINT. AERVOE "DIRECT TO METAL" OR APPROVED EQUAL COATING. FOR ALL GAS PIPES LOCATED OUTSIDE OF A BUILDING OR IN AN AREA EXPOSED TO THE GENERAL PUBLIC, PIPES, METERS AND REGULATORS WILL BE PAINTED METER GRAY WITH KEY VALVES PAINTED SAFETY YELLOW. FOR MECHANICAL ROOMS, ABOVE CEILINGS AND OTHER INACCESSIBLE AREAS, THE PIPE WILL BE PAINTED SAFETY YELLOW AND GAS VALVES AND REGULATORS WILL BE PAINTED METER GRAY. THE CONTRACTOR MAY USE THE EXTERIOR GRAY COLOR IN GYMS OR OTHER SIMILAR CONDITIONS WHERE AESTHETICS IS A CONCERN, COORDINATE WITH ARCHITECT PRIOR TO PAINTING. ALL GAS PIPING SHALL BE COATED AND IDENTIFIED. APPLICABLE TO NEW AND EXISTING.
I. ALL PE PIPE TO BE TRACED WITH COPPER WIRE WHEN BORED, WHEN INSTALLED USING OPEN TRENCH THE PIPE SHALL HAVE A METALLIC TRACER TAPE WITH WORDS "CAUTION GAS".
3.2 JOINTS
A. THREADED JOINTS SHALL BE MADE WITH A MIXTURE OF GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY. AFTER CUTTING AND PRIOR TO THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED.
B. WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH ANSI B31.1, SECTION 6.
C. FLANGED JOINTS SHALL BE FACED TRUE, PROVIDED WITH GASKET, AND MADE SQUARE AND TIGHT.
D. POLYETHYLENE PIPE: FUSED JOINTS SHALL BE MADE BY APPLYING ELECTRIC RESISTANCE HEAT TO THE JOINT IN ACCORDANCE WITH FEDERAL REGISTER 192.285, TITLE 49.

3.3 TRACER WIRE & WARNING TAPE
A. WARNING TAPE SHALL HAVE A CONTINUOUS WARNING MESSAGE REPEATED EVERY 18 TO 36 INCHES SHALL BE IMPRINTED ON THE TAPE SURFACE. THE TAPE SHALL CONTAIN AN OPAQUE COLOR CONCENTRATE DESIGNATING THE COLOR CODE APPROPRIATE TO THE LINE BEING BURIED. TAPE SHALL BE MINIMUM 3" WIDE.
B. FOR UNDERGROUND GAS PIPING, PROVIDE 14 GAUGE COPPER TRACER WIRE AND UNDERGROUND WARNING TAPE INSTALLED ABOVE UNDERGROUND PIPING. UNDER GROUND WARNING TAPE SHALL READ "CAUTION GAS LINE BURIED BELOW".
C. AN ADDITIONAL #10 COPPER WIRE SHALL BE ADHERED TO ALL UNDERGROUND NONCONDUCTIVE PIPING AND FASTENED WITH PLASTIC ZIP TIES EVERY 4'–0" ON CENTER.
3.4 TESTING
A. NATURAL GAS SYSTEMS
A.A. ALL PIPING SHALL BE TESTED PNEUMATICALLY AND PROVED TIGHT AT A PRESSURE OF 100 PSI FOR A PERIOD OF NOT LESS THAN 4 HOURS. NO LOSS IN PRESSURE WILL BE PERMITTED. LEAKS DETECTED SHALL BE REPAIRED BY TIGHTENING, REWELDING JOINTS, OR REPLACING PIPE AND FITTINGS. CAULKING OF JOINTS WILL NOT BE PERMITTED.

END OF SECTION

SECTION 23 0900 – TEMPERATURE CONTROLS

PART 1 – GENERAL
1.01 GENERAL
A. COMPLETE SYSTEM OF AUTOMATIC CONTROLS
B. ELECTRIC OR ELECTRONIC CONTROL SYSTEM
C. CONTROL DEVICES, COMPONENTS, WIRING, AND MATERIAL
1.02 RELATED WORK
1.03 SUBMITTALS
A. COMPLETE CONTROL DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BEFORE FIELD INSTALLATION IS STARTED. THE SUBMITTALS SHALL GIVE A COMPLETE DESCRIPTION OF ALL CONTROL DEVICES AND SHOW SCHEMATIC PIPING AND WIRING.
B. SUBMITTAL DATA SHALL INCLUDE A SCHEDULE OF ALL DEVICES TO INSTALLED, INCLUDING PROPERLY SIZED CONTROL VALVES AND DAMPERS.
1.04 WORK BY OTHERS
A. WIRING: ALL POWER WIRING WILL BE PROVIDED UNDER THE ELECTRICAL SECTION AND BE INSTALLED BY THE ELECTRICAL CONTRACTOR, BUT ALL CONTROL WIRING AND CONDUIT AND CONTROL DISCONNECTS SHALL BE FURNISHED AND INSTALLED BY THE CONTROL CONTRACTOR.
B. NOT USED.
PART 2 – PRODUCTS
2.01 SYSTEM REQUIREMENTS
A. PROVIDE CONTROL SYSTEM CONSISTING OF THERMOSTATS, DAMPERS, OPERATORS, INDICATING DEVICES, INTERFACE EQUIPMENT, AND OTHER APPARATUS TO OPERATE MECHANICAL SYSTEM AND TO PREFORM FUNCTIONS SPECIFIED.
B. PROVIDE NECESSARY MATERIALS AND FIELD WORK NECESSARY TO CONNECT CONTROL COMPONENTS FACTORY SUPPLIED AS PART OF EQUIPMENT CONTROLLED, UNLESS SPECIFIED OTHERWISE.
2.02 THERMOSTATS/HUMIDISTAT
A. TOUCHSCREEN THERMOSTAT/HUMIDISTAT BY HVAC UNIT MANUFACTURER.
2.03 FIRESTATS
A. PROVIDE MANUALLY RESET FIRESTATS IN RETURN AIR AT EACH AIR HANDLING UNIT AND IN THE INTAKE OF EACH EXHAUST FAN HANDLING 600 CFM OR MORE. THESE FIRESTAT SHALL ACT TO DE–ENERGIZE THE FAN IF THE INLET TEMPERATURE EXCEED 125–DEGREES F.
2.04 SMOKE DETECTORS
A. SMOKE DETECTORS SHALL BE PROVIDED UNDER THIS CONTRACT. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR PRIOR TO BID AS TO ENSURE A COMPLETE AND WORKING SYSTEM THESE SMOKE DETECTORS SHALL HAVE DRY AUXILIARY CONTACTS TO STOP AIR UNIT FAN AS FOLLOWS:
1. FOR UNITS OVER 2000 CFM (OR AS INDICATED ON THE DRAWINGS) BUT LESS THAN 15000 CFM, SMOKE DETECTOR SHALL BE LOCATED IN MAIN SUPPLY AIR DUCT DOWNSTREAM SIDE OF FILTERS.
2. FOR UNITS 2000 CFM OR ABOVE, ADDITIONAL SMOKE DETECTOR SHALL BE PROVIDED IN RETURN AIR STREAM, PRIOR TO EXHAUSTING FROM BUILDING OR BEING DILUTED BY OUTSIDE AIR.
B. ALL INTERLOCK WIRING BETWEEN THE SMOKE DETECTORS AND THE AIR UNIT FANS SHALL BE PERFORMED UNDER THIS SECTION OF THE SPECIFICATIONS. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR PRIOR TO BID TO ENSURE A COMPLETE AND WORKING SYSTEM.
C. WHERE NO BUILDING FIRE ALARM SYSTEM IS PRESENT, THE SMOKE DETECTORS SHALL BE FURNISHED WITH REMOTE VISUAL/AUDIO ALARMS (LOCATE ABOVE THERMOSTAT LOCATIONS, 12" DOWN FROM FINISHED CEILING, FOR RESPECTIVE UNITS). SYSTEM SENSOR APA451 OR APPROVED EQUAL. TEMPERATURE CONTROL CONTRACTOR TO BE RESPONSIBLE TO PROVIDE ALL REQUIRED POWER/CONTROL WIRING, CONTROL TRANSFORMER, POWER, ETC.
2.05 WIRING
A. ALL WIRING SHALL CONFORM TO THE METHODS AND MATERIALS DESCRIBED IN THE ELECTRICAL SECTION OF THESE SPECIFICATIONS, AND ALL NEC, STATE AND LOCAL CODES OUTLINED IN THAT SECTION SHALL APPLY TO THIS WORK.
B. CONTROL COMPONENTS FURNISHED UNDER THIS CONTRACT SHALL BE EQUIPPED FOR OPERATION AT NO MORE THAN 24 VOLTS AC, WITH THE EXCEPTION OF MOTOR STARTER INTERLOCK WIRING, WHICH SHALL BE NO MORE THAN 120 VOLTS AC.
C. WIRING SHALL BE A MINIMUM OF 14 GAUGE, EXCEPT FOR INSTRUMENTATION SENSORS WHICH SHALL CARRY A MINIMUM REQUIREMENT OF 18 GAUGE.
D. WIRING SHALL BE COLOR–CODED THROUGHOUT, USING A MINIMUM OF NINE STANDARD COLORS. SCHEMATIC DRAWINGS SHALL INDICATE THE COLOR CODE TO BE FOLLOWED.
PART 3 – EXECUTION
3.01 INSTALLATION
A. INSTALL SYSTEMS AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ROUGHING–IN DRAWINGS, AND DETAILS ON DRAWINGS.
B. INSTALL ELECTRICAL COMPONENTS AND USE ELECTRICAL PRODUCTS COMPLYING WITH REQUIREMENTS OF APPLICABLE DIVISION 26 SECTIONS OF THESE SPECIFICATIONS.
3.02 SEQUENCE OF OPERATION
A. SEQUENCES OF OPERATION SHALL BE AS FOLLOWS:
1. HVAC SYSTEMS:
a. HVAC UNIT (TYPICAL): REFER TO SPECIFIED UNIT MANUFACTURER DATA FOR SEQUENCE.
b. IF HUMIDITY RISES ABOVE 55%(ADJ.) HOT GAS REHEAT COIL IS TO ENERGIZE ALONG WITH COOLING COIL AS NOT TO OVERCOOL SPACE DURING DEHUMIDIFICATION.
c. IF RETURN AIR TEMPERATURE RISES ABOVE FIRESTAT SETPOINT THEN FIRESTAT DE–ENERGIZES UNIT EVAPORATOR FAN.
d. IF SUPPLY AIR OR RETURN AIR CONTAINS SMOKE, THE SMOKE DETECTOR SHALL DE–ENERGIZE UNIT EVAPORATOR FAN AND ACTIVATE FIRE ALARM.
e. MOTORIZED DAMPER IN FRESH AIR DUCT TO OPEN TO SETPOINT WHEN RESPECTIVE HVAC SYSTEM CALLS FOR COOLING.
3.03 EXHAUST FANS:
A. REFER TO SCHEDULES FOR CONTROL METHODOLOGY OF EXHAUST FANS.

END OF SECTION

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
MECHANICAL & PLUMBING SPECIFICATIONS

SHEET NUMBER:
MP1.2

EYRE ENGINEERING
PRINTED: 2.16.2026

SECTION 15954 – TESTING AND BALANCING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. ALL DIVISION 15 SPECIFICATION SECTIONS, DRAWINGS, AND GENERAL PROVISIONS OF THE CONTRACT APPLY TO WORK OF THIS SECTION, AS DO OTHER DOCUMENTS REFERRED TO IN THIS SECTION.

1.02 SCOPE OF WORK

A. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE (TAB) COMPANY WHICH SPECIALIZES IN THE TESTING AND BALANCING OF HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEMS TO TEST, ADJUST AND BALANCE ALL HVAC SYSTEMS IN THE BUILDING(S). THE PROJECT SHALL NOT BE ACCEPTED UNTIL APPROVED TESTING AND BALANCING REPORT HAS BEEN SUBMITTED AND APPROVED.

B. THE WORK INCLUDED IN THIS SECTION CONSISTS OF FURNISHING LABOR, INSTRUMENTS, AND TOOLS REQUIRED IN TESTING, ADJUSTING AND BALANCING THE HVAC SYSTEMS, AS DESCRIBED IN THESE SPECIFICATIONS OR SHOWN ON ACCOMPANYING DRAWINGS. SERVICES SHALL INCLUDE CHECKING EQUIPMENT PERFORMANCE, TAKING THE SPECIFIED MEASUREMENTS, AND RECORDING AND REPORTING THE RESULTS. THE TESTING, ADJUSTING AND BALANCING AGENCY SHALL ACT AS A REPORTING AGENCY; THAT IS, LIST AND REPORT EACH PIECE OF EQUIPMENT AS TO IDENTIFICATION NUMBER, MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, PROPER LOCATION, SPECIFIED PERFORMANCE, AND REPORT ACTUAL PERFORMANCE OF ALL EQUIPMENT AS FOUND DURING TESTING. THE REPORT IS INTENDED TO BE USED DURING THE LIFE OF THE BUILDING AS A READY REFERENCE INDICATING ORIGINAL CONDITIONS, EQUIPMENT COMPONENTS, ETC.

C. REPRESENTATIVES OF THE TEST AND BALANCE COMPANY SHALL VISIT THE JOB SITE AT 60% AND 90% COMPLETION OF INSTALLATION OF THE HVAC EQUIPMENT, PIPING AND DUCTWORK TO REVIEW THE INSTALLATION. AFTER EACH SITE VISIT, THE TEST AND BALANCE COMPANY SHALL REPORT TO THE ARCHITECT ANY ITEMS THAT ARE NOT INSTALLED PROPERLY, ARE MISSING FROM THE INSTALLATION OR ITEMS THAT ARE REQUIRED TO ENABLE HIM TO PERFORM THE TESTING AND BALANCING OF THE HVAC SYSTEMS AS PER NORMAL STANDARD PRACTICE. AFTER REVIEW, THE ARCHITECT SHALL INSTRUCT THE CONTRACTOR TO IMPLEMENT THE RECOMMENDATIONS AT NO ADDITIONAL COST TO THE OWNER IF THESE ITEMS WERE SPECIFIED IN THE ORIGINAL SCOPE OF THE PROJECT.

D. UPON COMPLETION OF THE HVAC SYSTEM INSTALLATION, THE TEST AND BALANCE COMPANY SHALL PERFORM ALL REQUIRED TESTING AND BALANCING WITH THE FULL COOPERATION OF THE CONTRACTOR AND HIS SUB–CONTRACTORS. THE CONTRACTOR SHALL MAKE CHANGES AND/OR ADJUSTMENTS TO THE HVAC SYSTEM COMPONENTS THAT ARE REQUIRED BY THE TEST AND BALANCE COMPANY TO ACCOMPLISH PROPER BALANCING. THE TAB AGENCY SHALL NOT SUPPLY OR INSTALL ANY MATERIALS OR BALANCING DEVICES SUCH AS PULLEYS, DRIVES, BELTS, ETC. ALL OF THIS WORK IS BY THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

E. THE TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY HIS MECHANICAL ENGINEER. IF THE MECHANICAL ENGINEER AGREES WITH THE REPORT, HE SHALL SIGN IT AND RETURN IT TO THE ARCHITECT. IF HE DOES NOT CONCUR WITH THE REPORT, HE SHALL MEET WITH THE TEST AND BALANCE COMPANY TO DETERMINE WHAT NEEDS TO BE DONE TO OBTAIN A PROPERLY BALANCED SYSTEM.

F. AFTER THE MECHANICAL ENGINEER SIGNS THE TESTING AND BALANCING REPORT, THE TEST AND BALANCE COMPANY SHALL SUPPLY FOUR (4) COPIES OF THE FINAL AND COMPLETE REPORT TO THE ARCHITECT FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.

G. THE ITEMS REQUIRING TESTING, ADJUSTING, AND BALANCING INCLUDE (BUT ARE NOT RESTRICTED TO) THE FOLLOWING:

AIR SYSTEMS:
SUPPLY FAN AT HVAC UNITS
EXHAUST FANS
ZONE BRANCH AND MAIN DUCTS
DIFFUSERS, REGISTERS, GRILLES AND DAMPERS
COILS (AIR TEMPERATURES)
VIBRATION ISOLATORS

H. THE QUALIFICATIONS OF THE TAB CONTRACTING FIRM SHALL BE SUBMITTED, ALONG WITH THE SPECIFIC QUALIFICATIONS OF THE LEAD SITE TECHNICIAN WHO WILL REMAIN ON SITE DURING ALL TAB WORK, WITHIN 30 DAYS OF NOTICE TO PROCEED. RECENT PROJECTS SHALL BE LISTED AND DESCRIBED FOR BOTH THE COMPANY AND THE LEAD TECHNICIAN. NAMES AND TELEPHONE NUMBERS OF THE PROJECT CONTRACTORS AND FACILITY MANAGERS WILL BE PROVIDED.

I. THE OWNER MUST APPROVE IN WRITING THE QUALIFICATIONS OF BOTH THE COMPANY AND THE LEAD TECHNICIAN.

J. AT THE TIME OF FINAL INSPECTION, THE TAB AGENCY SHALL BE REQUIRED TO RECHECK, IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE & MECHANICAL ENGINEER, SPECIFIC AND RANDOM ELECTIONS OF DATA, TEMPERATURES, AIR QUANTITIES, AND AIR MOTION RECORDED IN THE CERTIFIED REPORT. POINTS AND AREAS FOR RECHECK SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE & MECHANICAL ENGINEER AT TIME OF RECHECK. MEASUREMENTS AND TEST PROCEDURES SHALL BE THE SAME AS APPROVED FOR THE INITIAL WORK FOR THE CERTIFIED REPORT. SELECTIONS FOR RECHECK, SPECIFIC PLUS RANDOM, SHALL NOT EXCEED 10% OF THE TOTAL NUMBER TABULATED IN THE REPORT.

1.03 DEFINITIONS, REFERENCES, STANDARDS

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. IF THESE CONTRACT DOCUMENTS SET FORTH MORE STRINGENT REQUIREMENTS THAN THE AABC NATIONAL STANDARDS, THESE CONTRACT DOCUMENTS SHALL PREVAIL.

1.04 QUALIFICATIONS

A. AGENCY QUALIFICATIONS: THE TAB AGENCY SHALL BE A CURRENT MEMBER OF THE AABC, NEBB CERTIFICATION ALONE NOT ACCEPTABLE.

1.05 SUBMITTALS

A. QUALIFICATIONS: THE TAB AGENCY SHALL SUBMIT A COMPANY RESUME LISTING PERSONNEL AND PROJECT EXPERIENCE IN AIR AND HYDRONIC SYSTEM BALANCING AND A COPY OF THE AGENCY'S TEST AND BALANCE ENGINEER (TBE) CERTIFICATE.

B. PROCEDURES AND AGENDA: THE TAB AGENCY SHALL SUBMIT THE TAB PROCEDURES AND AGENDA PROPOSED TO BE USED.

C. SAMPLE FORMS: THE TAB AGENCY SHALL SUBMIT SAMPLE FORMS, WHICH SHALL INCLUDE THE MINIMUM DATA REQUIRED BY THE AABC NATIONAL STANDARDS.

1.06 TAB PREPARATION AND COORDINATION

A. SHOP DRAWINGS, SUBMITTAL DATA, UP–TO–DATE REVISIONS, CHANGE ORDERS, FAN CURVES, PUMP CURVES AND OTHER DATA REQUIRED FOR PLANNING, PREPARATION, AND EXECUTION OF THE TAB WORK SHALL BE PROVIDED WHEN AVAILABLE AND NO LATER THAN 30 DAYS PRIOR TO THE START OF TAB WORK.

B. SYSTEM INSTALLATION AND EQUIPMENT STARTUP SHALL BE COMPLETE PRIOR TO THE TAB AGENCY'S BEING NOTIFIED TO BEGIN, EXCEPT THAT DUCT LEAK TESTING SHALL BE DONE DURING CONSTRUCTION.

C. THE BUILDING CONTROL SYSTEM (BCS) CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTROL SYSTEM, INCLUDING ALL TEMPERATURE, PRESSURE AND HUMIDITY SENSORS. THESE SHALL BE CALIBRATED FOR ACCURATE CONTROL. IF APPLICABLE, THE BCS CONTRACTOR SHALL INSTALL ALL NECESSARY COMPUTERS AND COMPUTER PROGRAMS, AND MAKE THESE OPERATIONAL. ASSISTANCE SHALL BE PROVIDED AS REQUIRED FOR REPROGRAMMING, COORDINATION, AND PROBLEM RESOLUTION.

D. ALL TEST POINTS, BALANCING DEVICES, IDENTIFICATION TAGS, ETC., SHALL BE ACCESSIBLE AND CLEAR OF INSULATION AND OTHER OBSTRUCTIONS THAT WOULD IMPEDE TAB PROCEDURES.

E. QUALIFIED INSTALLATION OR STARTUP PERSONNEL SHALL BE READILY AVAILABLE FOR THE OPERATION AND ADJUSTMENT OF THE SYSTEMS. ASSISTANCE SHALL BE PROVIDED AS REQUIRED FOR COORDINATION AND PROBLEM RESOLUTION.

F. IF, UPON COMMENCING THE WORK, THE TAB CONTRACTOR FINDS THAT THE SYSTEMS ARE NOT READY, OR IF A DISPUTE OCCURS AS TO THE READINESS OF THE SYSTEMS, THE TAB CONTRACTOR MAY REQUEST AN INSPECTION TO BE MADE BY THE DESIGNER'S MECHANICAL ENGINEER. THIS INSPECTION SHALL ESTABLISH TO THE SATISFACTION OF THE REPRESENTED PARTIES WHETHER OR NOT THE SYSTEMS MEET THE BASIC REQUIREMENTS FOR TESTING AND BALANCING. ITEMS THAT ARE DETERMINED TO BE NOT READY FOR TESTING AND BALANCING SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR AND PLACED IN OPERATIONAL READINESS BEFORE TAB SERVICES ARE AGAIN REQUESTED.

1.07 REPORTS

A. FINAL TAB REPORT – THE TAB AGENCY SHALL SUBMIT THE FINAL TAB REPORT FOR REVIEW BY THE ARCHITECT. ON PLANS PROVIDED, ALL OUTLETS, DEVICES, HVAC EQUIPMENT, ETC., SHALL BE IDENTIFIED (INCLUDING MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, MOTOR MANUFACTURER, HP, DRIVE TYPE, FAN AND MOTOR SHEAVES AND BELT NUMBER), ALONG WITH A NUMBERING SYSTEM CORRESPONDING TO REPORT UNIT IDENTIFICATION. THE TAB AGENCY SHALL SUBMIT AN AABC "NATIONAL PROJECT PERFORMANCE GUARANTY" ASSURING THAT THE PROJECT SYSTEMS WERE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND AABC NATIONAL STANDARDS.

B. SUBMIT 4 COPIES OF THE FINAL TAB REPORT TO THE ARCHITECT FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.

PART 2 – INSTRUMENTATION

A. ALL INSTRUMENTS USED FOR MEASUREMENTS SHALL BE ACCURATE AND CALIBRATED. CALIBRATION AND MAINTENANCE OF ALL INSTRUMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AABC NATIONAL STANDARDS.

PART 3 – EXECUTION

3.01 GENERAL

A. THE SPECIFIED SYSTEMS SHALL BE REVIEWED AND INSPECTED FOR CONFORMANCE TO DESIGN DOCUMENTS. TESTING, ADJUSTING AND BALANCING ON EACH IDENTIFIED SYSTEM SHALL BE PERFORMED. THE ACCURACY OF MEASUREMENTS SHALL BE IN ACCORDANCE WITH AABC NATIONAL STANDARDS. ADJUSTMENT TOLERANCES SHALL BE + OR – 10% UNLESS OTHERWISE STATED.

B. EQUIPMENT SETTINGS, INCLUDING MANUAL DAMPER QUADRANT POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES SHALL BE MARKED TO SHOW FINAL SETTINGS.

C. ALL INFORMATION NECESSARY TO COMPLETE A PROPER TAB PROJECT AND REPORT SHALL BE PER AABC STANDARDS UNLESS OTHERWISE NOTED. THE DESCRIPTIONS OF WORK REQUIRED, AS LISTED IN THIS SECTION, ARE A GUIDE TO THE MINIMUM INFORMATION NEEDED.

D. TAB CONTRACTOR SHALL CUT INSULATION, DUCTWORK AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. UPON COMPLETION, PATCH INSULATION, DUCTWORK AND HOUSINGS USING MATERIALS IDENTICAL TO THOSE REMOVED. SEAL INSULATION TO REESTABLISH INTEGRITY OF THE VAPOR BARRIER.

E. TAB WORK SHALL INCLUDE ADDITIONAL INSPECTION AND ADJUSTMENT OF COMPONENTS DURING THE SEASON FOLLOWING THE INITIAL BALANCE TO INCLUDE RE–BALANCE OF ANY ITEMS INFLUENCED BY SEASONAL CHANGES OR AS DIRECTED BY THE OWNER.

3.02 AIR SYSTEMS

A. THE TAB AGENCY SHALL VERIFY THAT ALL DUCTWORK, SPLITTERS, EXTRACTORS, DAMPERS, GRILLES, REGISTERS, AND DIFFUSERS HAVE BEEN INSTALLED PER DESIGN, ARE FUNCTIONAL AND SET FULL OPEN. ANY LEAKAGE IN THE DUCTWORK SHALL BE REPAIRED PRIOR TO THE TEST. THE TAB AGENCY SHALL PERFORM THE FOLLOWING TAB PROCEDURES IN ACCORDANCE WITH THE AABC NATIONAL STANDARDS:

FOR SUPPLY FANS:

1. FAN SPEEDS – TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS.

2. CURRENT AND VOLTAGE – TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE, AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.

3. PITOT–TUBE TRAVERSE – PERFORM A PITOT–TUBE TRAVERSE OF MAIN SUPPLY AND RETURN DUCTS, AS APPLICABLE TO OBTAIN TOTAL CFM. IF A PITOT–TUBE TRAVERSE IS NOT PRACTICAL, AN EXPLANATION OF WHY A TRAVERSE WAS NOT MADE MUST APPEAR ON THE APPROPRIATE DATA SHEET.

4. OUTSIDE AIR – TEST AND ADJUST THE OUTSIDE AIR ON APPLICABLE EQUIPMENT USING A PITOT–TUBE TRAVERSE. IF A TRAVERSE IS NOT PRACTICAL, AN EXPLANATION OF WHY A TRAVERSE WAS NOT MADE MUST APPEAR ON THE APPROPRIATE DATA SHEET. IF A TRAVERSE IS NOT PRACTICAL USE THE MIXED–AIR TEMPERATURE METHOD IF THE INSIDE AND OUTSIDE TEMPERATURE DIFFERENCE IS AT LEAST 20 DEGREES FAHRENHEIT OR USE THE DIFFERENCE BETWEEN PITOT–TUBE TRAVERSES OF THE SUPPLY AND RETURN AIR DUCTS.

5. STATIC PRESSURE – TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH SUPPLY FAN.

FOR EXHAUST FANS:

1. FAN SPEEDS – TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS.

2. CURRENT AND VOLTAGE – TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE, AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.

3. PITOT–TUBE TRAVERSE – PERFORM A PITOT–TUBE TRAVERSE OF MAIN EXHAUST DUCTS TO OBTAIN TOTAL CFM. IF A PITOT–TUBE TRAVERSE IS NOT PRACTICAL, AN EXPLANATION OF WHY A TRAVERSE WAS NOT MADE MUST APPEAR ON THE APPROPRIATE DATA SHEET.

4. STATIC PRESSURE – TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH EXHAUST FAN.

FOR ZONE, BRANCH AND MAIN DUCTS:

1. ADJUST DUCTS TO WITHIN DESIGN CFM REQUIREMENTS. AS APPLICABLE, AT LEAST ONE ZONE BALANCING DAMPER SHALL BE COMPLETELY OPEN. MULTI–DIFFUSER BRANCH DUCTS SHALL HAVE AT LEAST ONE OUTLET OR INLET VOLUME DAMPER COMPLETELY OPEN.

FOR DIFFUSERS, REGISTERS AND GRILLES:

1. TOLERANCES – TEST, ADJUST, AND BALANCE EACH DIFFUSER, GRILLE, AND REGISTER TO WITHIN 10% OF DESIGN REQUIREMENTS. MINIMIZE DRAFTS. INCLUDE REQUIRED CFM, INITIAL TEST CFM AND FINAL CFM.

2. IDENTIFICATION – IDENTIFY THE TYPE, LOCATION, AND SIZE OF EACH GRILLE, DIFFUSER, AND REGISTER. THIS INFORMATION SHALL BE RECORDED ON AIR OUTLET DATA SHEETS.

FOR COILS:

1. AIR TEMPERATURE – ONCE AIR FLOWS ARE SET TO ACCEPTABLE LIMITS, TAKE WET BULB AND DRY BULB AIR TEMPERATURES ON THE ENTERING AND LEAVING SIDE OF EACH COOLING COIL. DRY–BULB TEMPERATURE SHALL BE TAKEN ON THE ENTERING AND LEAVING SIDE OF EACH HEATING COIL.

3.05 ADDITIONAL TAB SERVICES

A. VERIFICATION OF HVAC CONTROLS:
THE TAB AGENCY SHALL BE ASSISTED BY THE BUILDING CONTROL SYSTEMS CONTRACTOR IN VERIFYING THE OPERATION AND CALIBRATION OF ALL HVAC AND TEMPERATURE CONTROL SYSTEMS. THE FOLLOWING TESTS SHALL BE CONDUCTED:

1. VERIFY THAT ALL CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONAL, INCLUDING ALL ELECTRICAL INTERLOCKS, DAMPER SEQUENCES, AIR AND WATER RESETS, FIRE AND FREEZE STATS, AND OTHER SAFETY DEVICES.

2. VERIFY THAT ALL CONTROLLING INSTRUMENTS ARE CALIBRATED AND SET FOR DESIGN OPERATING CONDITIONS.

B. TAB REPORT VERIFICATION:
AT THE TIME OF FINAL INSPECTION, THE TAB AGENCY MAY BE REQUIRED TO RECHECK, IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, SPECIFIC AND RANDOM SELECTIONS OF DATA, AIR QUANTITIES, AND AIR MOTION RECORDED IN THE CERTIFIED REPORT. POINTS AND AREAS FOR RECHECK SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE. MEASUREMENTS AND TEST PROCEDURES SHALL BE THE SAME AS APPROVED FOR THE INITIAL WORK FOR THE CERTIFIED REPORT. SELECTIONS FOR RECHECK, SPECIFIC PLUS RANDOM, WILL NOT EXCEED 10% OF THE TOTAL NUMBER TABULATED IN THE REPORT.

E. JOB SITE INSPECTIONS:
DURING CONSTRUCTION, THE TAB AGENCY SHALL INSPECT THE INSTALLATION OF PIPE SYSTEMS, SHEET METAL WORK, TEMPERATURE CONTROLS, AND OTHER COMPONENT PARTS OF THE HVAC SYSTEMS. INSPECTIONS SHALL BE CONDUCTED A MINIMUM OF TWO TIMES. (TYPICALLY, THESE ARE PERFORMED WHEN 60% OF THE TOTAL SYSTEM IS INSTALLED AND AGAIN WHEN 90% OF THE TOTAL SYSTEM IS INSTALLED, PRIOR TO INSULATION OF THE DUCT AND PIPING). THE TAB AGENCY SHALL SUBMIT A WRITTEN REPORT OF EACH INSPECTION TO THE ARCHITECT.

F. BUILDING/ZONE PRESSURIZATION:THE TAB AGENCY SHALL TEST AND ADJUST BUILDING/ZONE PRESSURIZATION BY SETTING THE DESIGN FLOWS TO MEET THE REQUIRED FLOW DIRECTION AND PRESSURE DIFFERENTIAL. FOR POSITIVE PRESSURE AREAS, IT SHALL SET THE SUPPLY AIR TO DESIGN FLOW, AND GRADUALLY REDUCE THE EXHAUST AIR RATE TO OBTAIN THE REQUIRED FLOW OR PRESSURE DIFFERENCE. FOR NEGATIVE PRESSURE AREAS, IT SHALL SET THE SUPPLY AIR TO DESIGN FLOW, AND GRADUALLY INCREASE THE EXHAUST AIR RATE TO OBTAIN THE REQUIRED FLOW OR PRESSURE DIFFERENCE.

G. TEMPERATURE TESTING:
TO VERIFY SYSTEM CONTROL AND OPERATION, A SERIES OF THREE TEMPERATURE TESTS SHALL BE TAKEN AT APPROXIMATELY TWO HOUR INTERVALS IN EACH SEPARATELY CONTROLLED ZONE. THE RESULTING TEMPERATURES SHALL NOT VARY MORE THAN TWO DEGREES FAHRENHEIT FROM THE THERMOSTAT OR CONTROL SET POINT DURING THE TESTS. OUTSIDE TEMPERATURE AND HUMIDITY SHALL ALSO BE RECORDED DURING THE TESTING PERIODS.

H. AIR LEAKAGE RATE TESTING:
THE ENTIRE FACILITY SHALL BE TESTED FOR AIR LEAKAGE RATE BY FAN PRESSURIZATION (BLOWER DOOR TEST). THE AIR LEAKAGE TEST SHALL BE IN ACCORDANCE WITH ASTM E779 (CURRENT EDITION).

3.06 VIBRATION TESTING

A. THE TAB AGENCY SHALL CONDUCT VIBRATION TESTING ON THE FOLLOWING EQUIPMENT PER AABC NATIONAL STANDARDS. TEST DEFLECTION IN MILS AND VELOCITY IN INCHES PER SECOND SHALL BE MEASURED AND THE RESULTS COMPARED TO REQUIREMENTS IN EQUIPMENT SPECIFICATION SECTIONS.

EQUIPMENT:
AIR HANDLING UNITS
HEAT PUMP UNITS
FANS

END OF SECTION

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No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
MECHANICAL & PLUMBING SPECIFICATIONS

SHEET NUMBER:
MP1.3

SECTION 23 0131 – DUCT CLEANING

PART 1 – SPECIAL PROVISIONS

1.0 SUMMARY

A. CLEAN ALL EXISTING SUPPLY AIR DUCTWORK, RETURN AIR DUCTWORK, & OUTSIDE AIR DUCTWORK, RETURN AIR AIR DEVICES, OUTSIDE AIR AIR DEVICES, ETC. THAT ARE TO REMAIN AND BE REUSED FROM EXISTING AIR HANDLING UNIT SERVING RENOVATED SPACES. REMOVAL AND DISPOSAL OF VISIBLE DIRT, DEBRIS, AND OTHER CONTAMINANTS.

B. CLEANING AND DECONTAMINATION OF ALL EXISTING SUPPLY AIR DUCTWORK, RETURN DUCTWORK, OUTSIDE AIR DUCTWORK, DIFFUSERS, GRILLES AND REGISTERS.

C. CLEANING AND DECONTAMINATION OF EXISTING DAMPERS, LOUVERS, RETURN AIR PLENUMS, AND OTHER COMPONENTS OF THE HVAC SYSTEMS.

D. DISINFECTION OF ALL DUCTWORK, AIR UNITS, AND OTHER COMPONENTS.

E. VERIFICATION AND UPDATING OF WORKING DRAWINGS

F. PRE AND POST PROJECT REPORT WITH BEFORE AND AFTER PICTURES AT COMPLETION OF PROJECT

1.1 QUALIFICATION OF THE HVAC SYSTEM CLEANING CONTRACTOR

A. MEMBERSHIP: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL BE A CERTIFIED MEMBER OF THE NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA), OR SHALL MAINTAIN MEMBERSHIP IN A NATIONALLY RECOGNIZED NON–PROFIT INDUSTRY ORGANIZATION DEDICATED TO THE CLEANING OF HVAC SYSTEMS.

B. CERTIFICATION: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) AIR SYSTEM CLEANING SPECIALIST (ASCS) CERTIFIED BY NADCA ON A FULL TIME BASIS, OR SHALL HAVE STAFF CERTIFIED BY A NATIONALLY RECOGNIZED CERTIFICATION PROGRAM AND ORGANIZATION DEDICATED TO THE CLEANING OF HVAC SYSTEMS.
1. THE HOLDER OF THE ASCS CERTIFICATION MUST BE ONSITE DURING THE COMPLETE CLEANING PROCESS. THE HOLDER OF THE ASCS CERTIFICATION CAN'T BE JUST CARRY THE CERTIFICATION AND NOT BE ONSITE TO MANGER THE PROJECT.

C. SUPERVISOR QUALIFICATIONS: A PERSON CERTIFIED AS AN ASCS BY NADCA, OR MAINTAINING AN EQUIVALENT CERTIFICATION BY A NATIONALLY RECOGNIZED PROGRAM AND ORGANIZATION, SHALL BE RESPONSIBLE FOR THE TOTAL WORK HEREIN SPECIFIED.

D. EXPERIENCE: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL SUBMIT RECORDS OF EXPERIENCE IN THE FIELD OF HVAC SYSTEM CLEANING AS REQUESTED BY THE ARCHITECT/ENGINEER. BIDS SHALL ONLY BE CONSIDERED FROM FIRMS WHICH ARE REGULARLY ENGAGED IN HVAC SYSTEM MAINTENANCE WITH AN EMPHASIS ON HVAC SYSTEM CLEANING AND DECONTAMINATION.

E. THE CONTRACTOR OR SUB–CONTRACTOR TO PRIME MAIN REVENUE BASE IS HVAC CLEANING / HVAC MAINTENANCE /SERVICE OR INSTALLATION NOT AN ADD–ON SIDE LINE FOR ADDITIONAL REVENUE

F. EQUIPMENT, MATERIALS AND LABOR: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL POSSESS AND FURNISH ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR TO ADEQUATELY PERFORM THE SPECIFIED SERVICES.
1. THE CONTRACTOR SHALL ASSURE THAT ITS EMPLOYEES HAVE RECEIVED SAFETY EQUIPMENT TRAINING, MEDICAL SURVEILLANCE PROGRAMS, INDIVIDUAL HEALTH PROTECTION MEASURES, AND MANUFACTURER'S PRODUCT AND MATERIAL SAFETY DATA SHEETS (MSDS) AS REQUIRED FOR THE WORK BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND AS DESCRIBED BY THIS SPECIFICATION. FOR WORK PERFORMED IN COUNTRIES OUTSIDE OF THE U.S.A., CONTRACTORS SHOULD COMPLY WITH APPLICABLE NATIONAL SAFETY CODES AND STANDARDS.
2. THE CONTRACTOR SHALL MAINTAIN A COPY OF ALL CURRENT MSDS DOCUMENTATION AND SAFETY CERTIFICATIONS AT THE SITE AT ALL TIMES, AS WELL AS COMPLY WITH ALL OTHER SITE DOCUMENTATION REQUIREMENTS OF APPLICABLE OSHA PROGRAMS AND THIS SPECIFICATION
3. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER ALL MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL CHEMICAL PRODUCTS PROPOSED TO BE USED IN THE CLEANING PROCESS.

A. LICENSING: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL PROVIDE PROOF OF MAINTAINING THE PROPER LICENSE(S), IF ANY, AS REQUIRED TO DO WORK IN THIS STATE. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL RULES, REGULATIONS, AND LICENSING REQUIREMENTS.

B. STANDARDS

C. NADCA STANDARDS: THE HVAC SYSTEM CLEANING CONTRACTOR SHALL PERFORM THE SERVICES SPECIFIED HERE IN ACCORDANCE WITH THE CURRENT PUBLISHED STANDARDS OF THE NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA).
1. ALL TERMS IN THIS SPECIFICATION SHALL HAVE THEIR MEANING DEFINED AS STATED IN THE NADCA STANDARDS.
2. NADCA STANDARDS MUST BE FOLLOWED WITH NO MODIFICATIONS OR DEVIATIONS BEING ALLOWED.

D. DOCUMENTS
1. MECHANICAL DRAWINGS: THE CONTRACTOR SHALL PROVIDE THE HVAC SYSTEM CLEANING CONTRACTOR WITH ONE COPY OF THE FOLLOWING DOCUMENTS:
   a) PROJECT DRAWINGS AND SPECIFICATIONS.
   b) APPROVED CONSTRUCTION REVISIONS PERTAINING TO THE HVAC SYSTEM.
   c) ANY EXISTING INDOOR AIR QUALITY (IAQ) ASSESSMENTS OR ENVIRONMENTAL REPORTS PREPARED FOR THE FACILITY.

PART 2 – HVAC SYSTEM CLEANING SPECIFICATIONS AND REQUIREMENTS

2.1 SCOPE OF WORK

A. SCOPE: THIS SECTION DEFINES THE MINIMUM REQUIREMENTS NECESSARY TO RENDER HVAC COMPONENTS CLEAN, AND TO VERIFY THE CLEANLINESS THROUGH INSPECTION AND/OR TESTING IN ACCORDANCE WITH ITEMS SPECIFIED HEREIN AND APPLICABLE NADCA STANDARDS.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF VISIBLE SURFACE CONTAMINANTS AND DEPOSITS FROM WITHIN THE HVAC SYSTEM IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.

C. THE HVAC SYSTEM INCLUDES ANY INTERIOR SURFACE OF THE FACILITY'S AIR DISTRIBUTION SYSTEM FOR CONDITIONED SPACES AND/OR OCCUPIED ZONES. THIS INCLUDES THE ENTIRE HEATING, AIR–CONDITIONING AND VENTILATION SYSTEM FROM THE POINTS WHERE THE AIR ENTERS THE SYSTEM TO THE POINTS WHERE THE AIR IS DISCHARGED FROM THE SYSTEM. THE RETURN AIR GRILLES, RETURN AIR DUCTS TO THE AIR HANDLING UNIT (AHU), THE INTERIOR SURFACES OF THE AHU, MIXING BOX, COIL COMPARTMENT, CONDENSATE DRAIN PANS, HUMIDIFIERS AND DEHUMIDIFIERS, SUPPLY AIR DUCTS, FANS, FAN HOUSING, FAN BLADES, AIR WASH SYSTEMS, SPRAY ELIMINATORS, TURNING VANES, FILTERS, FILTER HOUSINGS, REHEAT COILS, AND SUPPLY DIFFUSERS ARE ALL CONSIDERED PART OF THE HVAC SYSTEM. THE HVAC SYSTEM MAY ALSO INCLUDE OTHER COMPONENTS SUCH AS DEDICATED EXHAUST AND VENTILATION COMPONENTS AND MAKE–UP AIR SYSTEMS.

D. THE ENTIRE EXISTING DUCT SYSTEM SHALL BE CLEANED.

2.2 HVAC SYSTEM COMPONENT INSPECTIONS AND SITE PREPARATIONS

A. HVAC SYSTEM COMPONENT INSPECTIONS: PRIOR TO THE COMMENCEMENT OF ANY CLEANING WORK, THE HVAC SYSTEM CLEANING CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF THE HVAC SYSTEM TO DETERMINE APPROPRIATE METHODS, TOOLS, AND EQUIPMENT REQUIRED TO SATISFACTORILY COMPLETE THIS PROJECT. THE CLEANLINESS INSPECTION SHOULD INCLUDE AIR HANDLING UNITS AND REPRESENTATIVE AREAS OF THE HVAC SYSTEM COMPONENTS AND DUCTWORK. IN HVAC SYSTEMS THAT INCLUDE MULTIPLE AIR HANDLING UNITS, A REPRESENTATIVE SAMPLE OF THE UNITS SHOULD BE INSPECTED.THE CLEANLINESS INSPECTION SHALL BE CONDUCTED WITHOUT NEGATIVELY IMPACTING THE INDOOR ENVIRONMENT THROUGH EXCESSIVE DISRUPTION OF SETTLED DUST, MICROBIAL AMPLIFICATION OR OTHER DEBRIS. IN CASES WHERE CONTAMINATION IS SUSPECTED, AND/OR IN SENSITIVE ENVIRONMENTS WHERE EVEN SMALL AMOUNTS OF CONTAMINANT MAY BE OF CONCERN, ENVIRONMENTAL ENGINEERING CONTROL MEASURES SHOULD BE IMPLEMENTED
1. DAMAGED SYSTEM COMPONENTS FOUND DURING THE INSPECTION SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

B. SITE EVALUATION AND PREPARATIONS: CONTRACTOR SHALL CONDUCT A SITE EVALUATION, AND ESTABLISH A SPECIFIC, COORDINATED PLAN WHICH DETAILS HOW EACH AREA OF THE BUILDING WILL BE PROTECTED DURING THE VARIOUS PHASES OF THE PROJECT.

C. INSPECTOR QUALIFICATIONS: QUALIFIED THIRD PARTY PERSONNEL SHOULD PERFORM THE HVAC CLEANLINESS INSPECTION TO DETERMINE THE NEED FOR CLEANING. AT MINIMUM, SUCH PERSONNEL SHOULD HAVE AN UNDERSTANDING OF HVAC SYSTEM DESIGN, AND EXPERIENCE IN UTILIZING ACCEPTED INDOOR ENVIRONMENTAL SAMPLING PRACTICES, CURRENT INDUSTRY HVAC CLEANING PROCEDURES, AND APPLICABLE INDUSTRY STANDARDS.
1. GENERAL HVAC SYSTEM CLEANING REQUIREMENTS
2. CONTAINMENT: DEBRIS REMOVED DURING CLEANING SHALL BE COLLECTED AND PRECAUTIONS MUST BE TAKEN TO ENSURE THAT DEBRIS IS NOT OTHERWISE DISPERSED OUTSIDE THE HVAC SYSTEM DURING THE CLEANING PROCESS.
3. PARTICULATE COLLECTION: WHERE THE PARTICULATE COLLECTION EQUIPMENT IS EXHAUSTING INSIDE THE BUILDING, HEPA FILTRATION WITH 99.97% COLLECTION EFFICIENCY FOR 0.3–MICRON SIZE (OR GREATER) PARTICLES SHALL BE USED. WHEN THE PARTICULATE COLLECTION EQUIPMENT IS EXHAUSTING OUTSIDE THE BUILDING, MECHANICAL CLEANING OPERATIONS SHALL BE UNDERTAKEN ONLY WITH PARTICULATE COLLECTION EQUIPMENT IN PLACE, INCLUDING ADEQUATE FILTRATION TO CONTAIN DEBRIS REMOVED FROM THE HVAC SYSTEM. WHEN THE PARTICULATE COLLECTION EQUIPMENT IS EXHAUSTING OUTSIDE THE BUILDING, PRECAUTIONS SHALL BE TAKEN TO LOCATE THE EQUIPMENT DOWN WIND AND AWAY FROM ALL AIR INTAKES AND OTHER POINTS OF ENTRY INTO THE BUILDING.
4. CONTROLLING ODORS: MEASURES SHALL BE EMPLOYED TO CONTROL ODORS AND/OR MIST VAPORS DURING THE CLEANING PROCESS.
5. COMPONENT CLEANING: CLEANING METHODS SHALL BE EMPLOYED SUCH THAT ALL HVAC SYSTEM COMPONENTS MUST BE VISIBLY CLEAN AS DEFINED IN APPLICABLE STANDARDS (SEE NADCA STANDARDS). UPON COMPLETION, ALL COMPONENTS MUST BE RETURNED TO THOSE SETTINGS RECORDED JUST PRIOR TO CLEANING OPERATIONS.
6. AIR–VOLUME CONTROL DEVICES: DAMPERS AND ANY AIR–DIRECTIONAL MECHANICAL DEVICES INSIDE THE HVAC SYSTEM MUST HAVE THEIR POSITION MARKED PRIOR TO CLEANING AND, UPON COMPLETION, MUST BE RESTORED TO THEIR MARKED POSITION.
7. SERVICE OPENINGS: THE CONTRACTOR SHALL UTILIZE SERVICE OPENINGS, AS REQUIRED FOR PROPER CLEANING, AT VARIOUS POINTS OF THE HVAC SYSTEM FOR PHYSICAL AND MECHANICAL ENTRY, AND INSPECTION.
8. CONTRACTOR SHALL UTILIZE THE EXISTING SERVICE OPENINGS ALREADY INSTALLED IN THE HVAC SYSTEM WHERE POSSIBLE.
9. OTHER OPENINGS SHALL BE CREATED WHERE NEEDED AND THEY MUST BE CREATED SO THEY CAN BE SEALED IN ACCORDANCE WITH INDUSTRY CODES AND STANDARDS.
10. CLOSURES MUST NOT SIGNIFICANTLY HINDER, RESTRICT, OR ALTER THE AIRFLOW WITHIN THE SYSTEM.
11. CLOSURES MUST BE PROPERLY INSULATED TO PREVENT HEAT LOSS/GAIN OR CONDENSATION ON SURFACES WITHIN THE SYSTEM.
12. OPENINGS MUST NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE SYSTEM.
13. CONSTRUCTION TECHNIQUES USED IN THE CREATION OF OPENINGS SHOULD CONFORM TO REQUIREMENTS OF APPLICABLE BUILDING AND FIRE CODES, AND APPLICABLE NFPA, SMACNA AND NADCA STANDARDS.
14. CUTTING SERVICE OPENINGS INTO FLEXIBLE DUCT IS NOT PERMITTED. FLEXIBLE DUCT SHALL BE DISCONNECTED AT THE ENDS AS NEEDED FOR PROPER CLEANING AND INSPECTION.
15. RIGID FIBER GLASS DUCT SYSTEMS SHALL BE RESEALED IN ACCORDANCE WITH NAIMA RECOMMENDED PRACTICES. ONLY CLOSURE TECHNIQUES THAT COMPLY WITH UL STANDARD 181 OR UL STANDARD 181A ARE SUITABLE FOR FIBER GLASS DUCT SYSTEM CLOSURES.
16. ALL SERVICE OPENINGS CAPABLE OF BEING RE–OPENED FOR FUTURE INSPECTION OR REMEDIATION SHALL BE CLEARLY MARKED AND SHALL HAVE THEIR LOCATION REPORTED TO THE ARCHITECT/ENGINEER IN PROJECT REPORT DOCUMENTS.
   a) CEILING SECTIONS (TILE): THE CONTRACTOR MAY REMOVE AND REINSTALL CEILING SECTIONS TO GAIN ACCESS TO HVAC SYSTEMS DURING THE CLEANING PROCESS.
   b) AIR DISTRIBUTION DEVICES (REGISTERS, GRILLES & DIFFUSERS): THE CONTRACTOR SHALL CLEAN ALL AIR DISTRIBUTION DEVICES.
   c) AIR HANDLING UNITS, BLOWERS AND EXHAUST FANS: THE CONTRACTOR SHALL INSURE THAT SUPPLY, RETURN, AND EXHAUST FANS AND BLOWERS ARE THOROUGHLY CLEANED. AREAS TO BE CLEANED INCLUDE BLOWERS, FAN HOUSINGS, PLENUMS (EXCEPT CEILING SUPPLY AND RETURN PLENUMS), SCROLLS, BLADES, OR VANES, SHAFTS, BAFFLES, DAMPERS AND DRIVE ASSEMBLIES. ALL VISIBLE SURFACE CONTAMINATION DEPOSITS SHALL BE REMOVED IN ACCORDANCE WITH NADCA STANDARDS. CONTRACTOR SHALL:
      c)1. CLEAN ALL AIR HANDLING UNITS (AHU) INTERNAL SURFACES, COMPONENTS AND CONDENSATE COLLECTORS AND DRAINS.
      c)2. ASSURE THAT A SUITABLE OPERATIVE DRAINAGE SYSTEM IS IN PLACE PRIOR TO BEGINNING WASH DOWN PROCEDURES.
      c)3. CLEAN ALL COILS AND RELATED COMPONENTS, INCLUDING EVAPORATOR FINS.

A. DUCT SYSTEMS. CONTRACTOR SHALL:
1. CREATE SERVICE OPENINGS IN THE SYSTEM AS NECESSARY IN ORDER TO ACCOMMODATE CLEANING OF OTHERWISE INACCESSIBLE AREAS.
2. MECHANICALLY CLEAN ALL DUCT SYSTEMS TO REMOVE ALL VISIBLE CONTAMINANTS, SUCH THAT THE SYSTEMS ARE CAPABLE OF PASSING CLEANING VERIFICATION TESTS (SEE NADCA STANDARDS).

B. HEALTH AND SAFETY
1. SAFETY STANDARDS: CLEANING CONTRACTORS SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR PROTECTING THE SAFETY OF THE CONTRACTOR'S EMPLOYEES, BUILDING OCCUPANTS, AND THE ENVIRONMENT. IN PARTICULAR, ALL APPLICABLE STANDARDS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SHALL BE FOLLOWED WHEN WORKING IN ACCORDANCE WITH THIS SPECIFICATION.
2. OCCUPANT SAFETY: NO PROCESSES OR MATERIALS SHALL BE EMPLOYED IN SUCH A MANNER THAT THEY WILL INTRODUCE ADDITIONAL HAZARDS INTO OCCUPIED SPACES.
3. DISPOSAL OF DEBRIS: ALL DEBRIS REMOVED FROM THE HVAC SYSTEM SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

C. MECHANICAL CLEANING METHODOLOGY
1. SOURCE REMOVAL CLEANING METHODS: THE HVAC SYSTEM SHALL BE CLEANED USING SOURCE REMOVAL MECHANICAL CLEANING METHODS DESIGNED TO EXTRACT CONTAMINANTS FROM WITHIN THE HVAC SYSTEM AND SAFELY REMOVE CONTAMINANTS FROM THE FACILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT SOURCE REMOVAL METHODS THAT WILL RENDER THE HVAC SYSTEM VISIBLY CLEAN AND CAPABLE OF PASSING CLEANING VERIFICATION METHODS (SEE APPLICABLE NADCA STANDARDS) AND OTHER SPECIFIED TESTS, IN ACCORDANCE WITH ALL GENERAL REQUIREMENTS. NO CLEANING METHOD, OR COMBINATION OF METHODS, SHALL BE USED WHICH COULD POTENTIALLY DAMAGE COMPONENTS OF THE HVAC SYSTEM OR NEGATIVELY ALTER THE INTEGRITY OF THE SYSTEM.
2. ALL METHODS USED SHALL INCORPORATE THE USE OF VACUUM COLLECTION DEVICES THAT ARE OPERATED CONTINUOUSLY DURING CLEANING. A VACUUM DEVICE SHALL BE CONNECTED TO THE DOWNSTREAM END OF THE SECTION BEING CLEANED THROUGH A PREDETERMINED OPENING. THE VACUUM COLLECTION DEVICE MUST BE OF SUFFICIENT POWER TO RENDER ALL AREAS BEING CLEANED UNDER NEGATIVE PRESSURE, SUCH THAT CONTAINMENT OF DEBRIS AND THE PROTECTION OF THE INDOOR ENVIRONMENT ARE ASSURED.
3. ALL VACUUM DEVICES EXHAUSTING AIR INSIDE THE BUILDING SHALL BE EQUIPPED WITH HEPA FILTERS (MINIMUM EFFICIENCY), INCLUDING HAND–HELD VACUUMS AND WET–VACUUMS.
4. ALL VACUUM DEVICES EXHAUSTING AIR OUTSIDE THE FACILITY SHALL BE EQUIPPED WITH PARTICULATE COLLECTION INCLUDING ADEQUATE FILTRATION TO CONTAIN DEBRIS REMOVED FROM THE HVAC SYSTEM. SUCH DEVICES SHALL EXHAUST IN A MANNER THAT WILL NOT ALLOW CONTAMINANTS TO RE–ENTER THE FACILITY. RELEASE OF DEBRIS OUTDOORS MUST NOT VIOLATE ANY OUTDOOR ENVIRONMENTAL STANDARDS, CODES OR REGULATIONS.
5. ALL METHODS REQUIRE MECHANICAL AGITATION DEVICES TO DISLODGE DEBRIS ADHERED TO INTERIOR HVAC SYSTEM SURFACES, SUCH THAT DEBRIS MAY BE SAFELY CONVEYED TO VACUUM COLLECTION DEVICES. ACCEPTABLE METHODS WILL INCLUDE THOSE, WHICH WILL NOT POTENTIALLY DAMAGE THE INTEGRITY OF THE DUCTWORK, NOR DAMAGE POROUS SURFACE MATERIALS SUCH AS LINERS INSIDE THE DUCTWORK OR SYSTEM COMPONENTS.

A. METHODS OF CLEANING FIBROUS GLASS INSULATED COMPONENTS
1. FIBROUS GLASS THERMAL OR ACOUSTICAL INSULATION ELEMENTS PRESENT IN ANY EQUIPMENT OR DUCTWORK SHALL BE THOROUGHLY CLEANED WITH HEPA VACUUMING EQUIPMENT, WHILE THE HVAC SYSTEM IS UNDER CONSTANT NEGATIVE PRESSURE, AND NOT PERMITTED TO GET WET IN ACCORDANCE WITH APPLICABLE NADCA AND NAIMA STANDARDS AND RECOMMENDATIONS.
2. CLEANING METHODS USED SHALL NOT CAUSE DAMAGE TO FIBROUS GLASS COMPONENTS AND WILL RENDER THE SYSTEM CAPABLE OF PASSING CLEANING VERIFICATION TESTS (SEE NADCA STANDARDS).

B. DAMAGED FIBROUS GLASS MATERIAL
1. EVIDENCE OF DAMAGE: IF THERE IS ANY EVIDENCE OF DAMAGE, DETERIORATION, DELAMINATING, FRIABLE MATERIAL, MOLD OR FUNGUS GROWTH, OR MOISTURE SUCH THAT FIBROUS GLASS MATERIALS CANNOT BE RESTORED BY CLEANING OR RESURFACING WITH AN ACCEPTABLE INSULATION REPAIR COATING, THEY SHALL BE IDENTIFIED FOR REPLACEMENT.
2. REPLACEMENT: WHEN REQUESTED OR SPECIFIED, CONTRACTOR MUST BE CAPABLE OF REMEDIATING EXPOSED DAMAGED INSULATION IN AIR HANDLERS AND/OR DUCTWORK REQUIRING REPLACEMENT.
3. REPLACEMENT MATERIAL: IN THE EVENT FIBER GLASS MATERIALS MUST BE REPLACED, ALL MATERIALS SHALL CONFORM TO APPLICABLE INDUSTRY CODES AND STANDARDS, INCLUDING THOSE OF UL AND SMACNA.
17. THE CONTRACTOR SHALL REPLACE ALL DAMAGED MATERIAL/INSULATION & CEILING TILES IF DAMAGED DURING DUCT CLEANING.
   a) CLEANING OF COILS – NOT USED.
   b) ANTIMICROBIAL AGENTS AND COATINGS
1. ANTIMICROBIAL AGENTS SHALL ONLY BE APPLIED IF ACTIVE FUNGAL GROWTH IS REASONABLY SUSPECTED, OR WHERE UNACCEPTABLE LEVELS OF FUNGAL CONTAMINATION HAVE BEEN VERIFIED THROUGH TESTING.
2. APPLICATION OF ANY ANTIMICROBIAL AGENTS USED TO CONTROL THE GROWTH OF FUNGAL OR BACTERIOLOGICAL CONTAMINANTS SHALL BE PERFORMED AFTER THE REMOVAL OF SURFACE DEPOSITS AND DEBRIS.
3. WHEN USED, ANTIMICROBIAL TREATMENTS AND COATINGS SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND EPA REGISTRATION LISTING.
4. ANTIMICROBIAL COATINGS SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS. COATINGS SHALL BE SPRAYED DIRECTLY ONTO INTERIOR DUCTWORK SURFACES, RATHER THAN "FOGGED" DOWNSTREAM ONTO SURFACES.
   c) CLEANLINESS VERIFICATION
1. GENERAL: VERIFICATION OF HVAC SYSTEM CLEANLINESS WILL BE DETERMINED AFTER MECHANICAL CLEANING AND BEFORE THE APPLICATION OF ANY TREATMENT OR INTRODUCTION OF ANY TREATMENT–RELATED SUBSTANCE TO THE HVAC SYSTEM, INCLUDING BIOCIDAL AGENTS AND COATINGS.
2. VISUAL INSPECTION: THE HVAC SYSTEM SHALL BE INSPECTED VISUALLY TO ENSURE THAT NO VISIBLE CONTAMINANTS ARE PRESENT.

A. IF NO CONTAMINANTS ARE EVIDENT THROUGH VISUAL INSPECTION, THE HVAC SYSTEM SHALL BE CONSIDERED CLEAN; HOWEVER, THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO FURTHER VERIFY SYSTEM CLEANLINESS THROUGH SURFACE COMPARISON TESTING OR THE NADCA VACUUM TEST SPECIFIED IN THE NADCA STANDARDS.
B. IF VISIBLE CONTAMINANTS ARE EVIDENT THROUGH VISUAL INSPECTION, THOSE PORTIONS OF THE SYSTEM WHERE CONTAMINANTS ARE VISIBLE SHALL BE RE– CLEANED AND SUBJECTED TO RE–INSPECTION FOR CLEANLINESS.
C. NADCA VACUUM TEST ANALYSIS SHOULD BE PERFORMED BY A QUALIFIED THIRD PARTY EXPERIENCED IN TESTING OF THIS NATURE.
3. VERIFICATION OF COIL CLEANING

A. NOT USED.
4. PRE–EXISTING SYSTEM DAMAGE

A. CONTRACTOR IS NOT RESPONSIBLE FOR PROBLEMS RESULTING FROM PRIOR INAPPROPRIATE OR CARELESS CLEANING TECHNIQUES OF OTHERS. DOCUMENT AND PROVIDE REPORT TO ARCHITECT/ENGINEER PRIOR TO ANY & ALL CONSTRUCTION/DEMOLITION WORK.
5. POST PROJECT REPORT

A. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE A REPORT TO THE ARCHITECT/ENGINEER INDICATING THE FOLLOWING:
1. SUCCESS OF THE CLEANING PROJECT, AS VERIFIED THROUGH VISUAL INSPECTION AND/OR GRAVIMETRIC ANALYSIS.
2. AREAS OF THE SYSTEM FOUND TO BE DAMAGED AND/OR IN NEED OF REPAIR.
   a. APPLICABLE STANDARDS AND PUBLICATIONS: THE FOLLOWING CURRENT STANDARDS AND PUBLICATIONS OF THE ISSUES CURRENTLY IN EFFECT FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY ANY REFERENCE THERETO:
3. NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA): "ASSESSMENT, CLEANING & RESTORATION OF HVAC SYSTEMS (ACR 2005)," 2004.
4. NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA): "UNDERSTANDING MICROBIAL CONTAMINATION IN HVAC SYSTEMS," 1996.
5. NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA): "INTRODUCTION TO HVAC SYSTEM CLEANING SERVICES," 2004.
6. NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA): STANDARD 05 "REQUIREMENTS FOR THE INSTALLATION OF SERVICE OPENINGS IN HVAC SYSTEMS," 2004.
7. UNDERWRITERS' LABORATORIES (UL): UL STANDARD 181.
8. AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE): STANDARD 62–89, "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY".
9. ENVIRONMENTAL PROTECTION AGENCY (EPA): "BUILDING AIR QUALITY," DECEMBER 1991.
10. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA): "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," 1985.
11. NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA): "CLEANING FIBROUS GLASS INSULATED AIR DUCT SYSTEMS," 1993.

END OF SECTION

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No.	Description	Date

PROJECT NUMBER: 2025-009
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SHEET TITLE:

MECHANICAL & PLUMBING SPECIFICATIONS

SHEET NUMBER:

MP1.4

EYRE ENGINEERING

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PLUMBING LEGEND

NOTE: ALL SYMBOLS IN THIS LEGEND ARE NOT NECESSARILY FOUND ON THE PLANS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D	FLOOR DRAIN W/TRAP	DS	DOWN SPOUT
HD	HUB DRAIN W/TRAP	VTR	VENT THRU ROOF
SH.D	SHOWER DRAIN W/TRAP		WALL HYDRANT/HOSE BIBB
	CATCH DRAIN	C.O.	FLOOR CLEAN OUT
BST	BASKET TYPE STRAINER	C.O.	WALL CLEAN OUT
FM	FLOW METER		SANITARY DRAIN ABOVE FLOOR OR GRADE SANITARY DRAIN UNDERGROUND
	SHUT-OFF VALVE OPERATION SYMBOL		VENT PIPING ABOVE FLOOR OR GRADE VENT PIPING UNDERGROUND
	BALANCING VALVE OPERATION SYMBOL	SD	STORM PIPING ABOVE FLOOR OR GRADE STORM PIPING UNDERGROUND
	BUTTERFLY, W/SHUT-OFF VALVE OPERATION	RL	PRIMARY ROOF DRAIN LINE
	GATE VALVE	ORL	SECONDARY ROOF DRAIN LINE
	GLOBE, W/MOTORIZED VALVE OPERATION		COLD WATER LINE
	PLUG, W/BALANCING VALVE OPERATION		HOT WATER LINE
	BALL, W/SHUT-OFF VALVE OPERATION		HOT WATER RETURN LINE
	CHECK VALVE	r r	FIRE WATER LINE
	CONNECTION TO EXISTING SERVICES	rsc rsc	FIRE DEPARTMENT CONNECTION LINE
B.O.P.	BOTTOM OF PIPE	GW	GREASE WASTE PIPING
	SHUTOFF VALVE	OW	OIL WASTE PIPING
	SHUTOFF VALVE IN VALVE BOX		CAP
P	WASTE OR VENT RISER		PIPING ELBOW - UP
	TEE DOWN PIPING		PIPING ELBOW - DOWN
	TEE		TEE UP PIPING

PLUMBING SYSTEM NOTES:

1. ALL POTABLE WATER SYSTEMS SHALL USE LEAD FREE PIPING, SOLDER, AND FLUX.
2. SUPPLY SYSTEMS SHALL USE DIELECTRIC ADAPTERS WHERE PIPES OF DISSIMILAR METALS ARE BEING CONNECTED.
3. THE POTABLE WATER SYSTEM SHALL BE PROPERLY DISINFECTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (CURRENT EDITION).
4. ALL PIPING PENETRATING THE PLANE OF THE ROOF SHALL BE INSULATED WITH MINIMUM ONE-INCH THICK CONTINUOUS INSULATION FROM THE UNDERSIDE OF THE ROOF DECK, ALONG ALL LATERALS, TO 6 INCHES BELOW THE LAST ABOVE-CEILING VERTICAL ELBOW JOINT.
5. ALL VERTICAL PIPING PENETRATING THE ROOF SHALL BE BRACED HIGH AND LOW TO THE STRUCTURE TO PREVENT MOVEMENT THAT WOULD JEOPARDIZE THE INTEGRITY OF THE ROOF FLASHING.
6. ALL HORIZONTAL PIPING ON THE ROOF SHALL BE SUPPORTED IN METHODS, MANNERS, AND AT SPACINGS APPROVED BY BOTH THE PIPE MANUFACTURER AND THE ROOF MANUFACTURER; SUPPORTS SHALL BE DESIGNED FOR UNBINDING SLIPPAGE OR WITH NON-CORRODING ROLLERS TO ALLOW FOR THERMAL MOVEMENT OF THE PIPING WITHOUT JEOPARDIZING THE ROOF SYSTEM.
7. ALL DOMESTIC WATER, SANITARY, VENT, AND FIRE PROTECTION PIPING SHALL BE SLEEVED THROUGH WALLS; SLEEVES SHALL BE SIZED TO ALLOW PASSAGE OF THE PIPE AND ITS FULL INSULATION THICKNESS PLUS ANNULAR SPACE FOR INSTALLATION OF FIRE STOP AND/OR SEALANT AS REQUIRED.
8. COORDINATE PROVISION FOR PROTECTING PIPING BENEATH ALL HANDICAP LAVATORIES REQUIRED AND IDENTIFIED WITH TOILET ACCESSORIES.
9. ALL CEILING-MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTERS OF ALL LAY-IN CEILING TILES.
10. THE CONTRACTOR SHALL COORDINATE ROUGHIN LOCATIONS WITH APPROVED TOILET PARTITION SHOP DRAWINGS. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT PLACEMENT.
11. NEATLY INSTALL WHITE MILDEW-RESISTANT SILICONE SEALANT AROUND THE PERIPHERY OF ALL PLUMBING FIXTURES IN CONTACT WITH THE FLOOR.

COORDINATION DRAWINGS:

THE CONTRACTOR SHALL SUBMIT TO ARCHITECT, AS SOON AS FEASABLE AFTER AWARD OF CONTRACT, ENTIRE FACILITY SYSTEM LAYOUTS AT A SCALE NOT LESS THAN 3/16"=1'-0" SHOWING THE LAYOUT OF THE ACTUAL EQUIPMENT, PIPING, MATERIAL, ETC. TO BE USED AND ALL NECESSARY CLEARANCES. THESE DRAWINGS SHALL BE COMPREHENSIVE OF ALL TRADES AS TO ELIMINATE CONFLICTS. THE CONTRACTOR WILL BE RESPONSIBLE TO VERIFY ALL ACCESS FOR MAINTENANCE AS REQUIRED BY THE MANUFACTURER. COORDINATION DRAWING TO BE REVIEWED BY ARCHITECT/ENGINEER PRIOR TO THE INSTALLATION OF ANY & ALL MECHANICAL EQUIPMENT. CONTRACTOR TO COORDINATE THE PRELIMINARY SPRINKLER PLAN, DUCTWORK SHOP DRAWINGS, PIPING SYSTEMS, PLUMBING SYSTEMS & STEEL SHOP DRAWINGS (STRUCTURAL) PRIOR TO SUBMITTING TO DESIGN TEAM. CONTRACTOR TO INCLUDE ALL REQUIRED OFFSETS IN PLUMBING, PIPING & DUCTWORK IN BID. NO ADDITIONAL COST WILL BE PROVIDED TO CONTRACTOR FOR FAILURE TO COORDINATE & RELOCATE ALL PIPING & DUCTWORK WITH STEEL. ALL SHOP DRAWINGS ARE TO INCLUDE SECTION CUTS OF ALL BUILDING AREAS FOR COORDINATION PURPOSES.

GENERAL NOTES:

1. ALL AUTOMATIC TRAP PRIMERS SHALL BE ASSE 1018 COMPLIANT.
2. ALL WATER HAMMER ARRESTORS SHALL BE ASSE 1010 COMPLIANT.
3. ALL LAVATORIES SHALL HAVE INDIVIDUAL WATER TEMPERING VALVES TO LIMIT THE TEMPERATURE DELIVERED TO THE LAVATORY. TEMPERING VALVES SHALL BE ASSE 1070 COMPLIANT.
4. PROVIDE CLEANOUT ON ALL 4" & 6" PIPING EVERY 75'. ALL PIPING 3" & SMALLER TO HAVE CLEANOUTS NO GREATER THAN 50' APART.
5. REQUIRED WATER HEATER SAFETY DEVICES:
   a. ANTI-SIPHON DEVICE: PROVIDE VACUUM BREAKER AT INCOMING COLD WATER LINE TO WATER HEATERS (VACUUM BREAKER TO BE ANSI Z21.22 COMPLIANT).
   b. ALL WATER HEATERS TO HAVE THERMOSTATIC MIXING VALVES.
   c. ALL WATER HEATERS TO HAVE TEMPERATURE & PRESSURE RELIEF VALVES.
   d. ALL WATER HEATERS SHALL HAVE INTERNAL CUTOFF DEVICES TO CUT THE ENERGY SOURCE TO THE WATER HEATER.

GENERAL PLUMBING NOTES:

1. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". AIA DOCUMENT A201, AND THIS SPECIFICATION AS APPLICABLE ARE PART OF THIS CONTRACT.
2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE CONTRACTOR.
3. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM THE MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF THE DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
4. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING TO AVOID OBSTRUCTIONS.
5. SUPPORT NEW PIPING FROM BUILDING STRUCTURE AND OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
6. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
7. SEAL ALL OPENINGS AROUND PIPES THROUGH PARTITIONS AND WALLS WITH APPROVED FIRESTOPPING MATERIAL MEETING ASTM E814 AND NFPA-101.
8. KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
9. FURNISH SHOP DRAWINGS OF ALL EQUIPMENT BEING PROVIDED. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION.
10. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL THE PLUMBING EQUIPMENT AND FIXTURES AS SHOWN OR DETAILED BY THE CONTRACT DOCUMENTS FOR THIS PROJECT. WHERE SPACE OR SPARE DEVICES ARE SHOWN, CONTRACTOR SHALL PROVIDE.
11. PLUMBING CONTRACTOR SHALL PROVIDE PERMANENT LAMINATED LABELS FOR ALL EQUIPMENT THIS PROJECT (I.E. EACH HOT WATER HEATER, PUMP, EXPANSION TANK, MIXING VALVE, ETC.). LABELING SHALL BE A MINIMUM OF 3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND. LABELS SHALL BE CONSTRUCTED OF MINIMUM 1" WIDE BY LENGTH AS REQUIRED LAMINATED PLASTIC SECURELY FASTENED TO DEVICE WITH STAINLESS STEEL HARDWARE. PRESSURE SENSITIVE "STICK ON" LABELS SHALL NOT BE ALLOWED.
12. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, CONDUIT AND EQUIPMENT.
13. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (MOST CURRENT ADDITION) & INTERNATIONAL PLUMBING CODE (CURRENT EDITION).
14. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED AND IN A MANNER SATISFACTORY TO THE OWNER.
15. UNLESS OTHERWISE SPECIFIED, THE GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE FOR ALL PAINTING, CUTTING AND PATCHING OF EXISTING FLOORS, WALLS AND PARTITIONS IN THE EXISTING BUILDING. THE GC SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION THAT IS ACCEPTABLE TO THE ARCHITECT.
16. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES AND EQUIPMENT. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED.
17. SUBMISSION OF A BID SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION & COORDINATION.
18. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING SERVICES (WATER LINES, SEWER LINES, FIRE WATER LINES, GAS LINES, ELECTRICAL, ETC.) PRIOR TO INSTALLATION. IF ANY CONFLICTS ARISE, CO-ORDINATE WITH ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
19. ALL GRADE SENSITIVE PIPING (SEWER LINES, STORM DRAINAGE LINES, ETC.) SHALL TAKE PRECEDENCE OVER ALL OTHER INSTALLATIONS. CONTRACTOR TO CO-ORDINATE WITH ALL DISCIPLINES PRIOR AND DURING INSTALLATION.
20. PLUG OR CAP ALL PIPING. DO NOT LEAVE PIPING OPEN ENDED.
21. ALL HUB DRAINS PROVIDED FOR CONDENSATE FROM AIR HANDLING UNITS SHALL HAVE FUNNEL.
22. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT LOCATION OF ALL FLOOR DRAINS AS NOT TO CONFLICT WITH MECHANICAL EQUIPMENT. FLOOR DRAIN LOCATION BASED ON EQUIPMENT ON DRAWINGS. IF DIFFERENT EQUIPMENT IS USED ON JOB PLUMBING CONTRACTOR SHALL COORDINATE NEW FLOOR DRAIN LOCATION AS NOT TO CONFLICT WITH NEW EQUIPMENT.
23. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR ON LOCATION OF ALL RATED WALL AND FLOOR PENETRATIONS BY PIPING. PLUMBING CONTRACTOR TO PROVIDE FIRE CAULKING AROUND ALL PIPING PENETRATIONS, TYPICAL ALL WALL AND FLOOR PENETRATIONS.
24. ALL EQUIPMENT SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS SO AS TO MAINTAIN GUARANTEES. CONTRACTOR IS TO PROVIDE AND INSTALL ARE SUPPORTS AND HANGERS THAT ARE REQUIRED FOR A PROPER INSTALLATION.
25. PLUMBING PIPING RISER RUNS ARE SHOWN DIAGRAMMATICALLY. PLUMBING CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED.
26. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN THE ELECTRICAL AND OTHER TRADES, ESPECIALLY COORDINATION CONCERNING PENETRATIONS OF THE WALLS AND FLOORS WITH PIPE AND DUCTWORK.
27. ALL MODEL NUMBERS SHOWN FOR SPECIFIC MANUFACTURER'S REPRESENT THE TYPE AND QUALITY OF EQUIPMENT TO BE USED. SUBMIT FOR PRIOR APPROVAL ANY EQUIPMENT BEFORE BIDDING.
28. COORDINATE ALL UNDERGROUND PIPE (SEWER, WATER, ETC.) WORK WITH EXISTING UNDERGROUND WORK EG. FEEDER CIRCUITS, SEWER, GAS, TELEPHONE, WATER, DRAINAGE (ETC.) LOCATE ALL UNDERGROUND UTILITIES BEFORE WORK THIS PROJECT. MARKED UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO PLACE BACK IN ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT.
29. FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM SUBSTANTIAL COMPETITION, MINIMUM. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. WHERE DEFECTS OCCUR, ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF THE OTHER TRADES AFFECTED BY DEFECTS.
30. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS, AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INCLUDE ALL COSTS FOR PERMITS, LICENSES AND CERTIFICATE FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
31. PIPING AND EQUIPMENT SUPPORT SHALL COMPLY WITH REQUIREMENTS OF INTERNATIONAL GAS CODE, INTERNATIONAL PLUMBING CODE (CURRENT EDITION) UNLESS NOTED OTHERWISE.
32. GAS PIPE SIZING IS BASED ON INTERNATIONAL GAS CODE.
33. GAS PIPING HAS BEEN DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND NFPA 54 - NATIONAL FUEL GAS CODE (LATEST EDITION).
34. REFER TO SPECIFICATIONS FOR GAS PIPING MATERIAL, JOINTS, AND INSTALLATION.
35. GAS PIPING INSTALLED ON THE EXTERIOR OF THE BUILDING AND ABOVE GRADE SHALL BE COVERED WITH 2 COATS OF A WATERPROOF ASPHALTIC COATING (OR EQUAL) TO PREVENT CORROSION OF THE PIPE.
36. UNDERGROUND GAS PIPING SHALL BE INSTALLED TO ALLOW PROPER MAINTENANCE AND TO PROTECT AGAINST CONTACT OR DAMAGE RESULTING FROM PROXIMITY TO OTHER STRUCTURES. UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY HEAT SOURCE.
37. THE USE OF THE TERM "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL THE ASSOCIATED DEVICE OR EQUIPMENT, COMPLETE AND READY FOR THE INTENDED USE".
38. AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC (PLASTIC) PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC GAS PIPING. THE TRACER WIRE SHALL NOT BE LESS THAN 14 AWG AND SHALL BE SUITABLE FOR BURIAL.
39. JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH APPROVED ADAPTER FITTINGS.
40. ALL UNDERGROUND PRESSURIZED PIPING SYSTEMS (DOMESTIC WATER, ETC.) SHALL BE INSTALLED A MINIMUM DEPTH OF 36 INCHES BELOW GRADE. UNLESS TIE-IN LOCATIONS REQUIRE; IN SUCH CASE COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO PROCEEDING. GAS PIPING & SITE FIRE WATER TO BE INSTALLED A MINIMUM 36" BELOW FINISHED GRADE.
41. ALL PENETRATIONS OF GAS PIPING THROUGH SLABS AND FOUNDATION WALLS SHALL BE SLEEVED WITH A PIPE SLEEVE.
42. PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPE PENETRATIONS (WALL, FLOOR) WITH ALL OTHER DISCIPLINES IN FIELD PRIOR TO INSTALLATION.
43. PLUMBING CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH ALL OTHER DIVISIONS. SHOULD CONFLICTS ARISE WHICH CANNOT BE CORRECTED WITH MINOR DEVIATIONS. THE CONTRACTOR SHALL CALL THESE CONFLICTS TO THE DESIGNER'S ATTENTION BEFORE PROCEEDING. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND/OR MOUNTING DETAILS SHOWN WITH MODIFICATIONS OF SAME AS REQUIRED TO SUIT FINISHED CONDITIONS.
44. ALL WALL MOUNTED PLUMBING FIXTURES (HAND WASH STATIONS, WATER COOLERS, ETC.) ARE TO HAVE 2" WALL CLEAN OUT WITH CHROME PLATED COVER AS TO CLEAN SANITARY SEWER BRANCH LINE OUT WITHOUT REMOVING FIXTURE. ALL WALL CLEAN OUTS MAY NOT BE SHOWN FOR CLARITY REASONS.
45. ALL PIPING LOCATED THRU GRADE BEAMS TO BE INSULATED WITH 1" CLOSED CELLULAR FOAM AS TO BE ISOLATED FROM THE CONCRETE IN THE EVENT THE BUILDING SETTLES.
46. ALL HUB DRAINS PROVIDED FOR CONDENSATE FROM AIR HANDLING UNITS SHALL HAVE FUNNEL.
47. MAINTAIN 6" BETWEEN FLUSH VALVE, VACUUM BREAKER, CRITICAL LEVEL TAILPIECE, AND OVERFLOW RIM OF WATER CLOSETS & TOILETS.
48. VERIFICATION OF EXISTING UTILITIES: CONTRACTOR TO VERIFY DEPTH/ELEVATION/INVERTS OF ALL EXISTING SANITARY SEWER, DOMESTIC WATER, FIRE WATER, GAS, STORM DRAINAGE, ETC. PRIOR TO ANY AND ALL CONSTRUCTION. IF EXISTING PIPING IS AT AN ELEVATION THAT DOES NOT PROPERLY ALLOW FOR THE INSTALLATION OF NEW UTILITIES THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR FURTHER ACTION.
49. CONTRACTOR TO PROVIDE EXTERIOR CLEANOUT (TWO-WAY) AT ALL SEWER LINES AS SEWER EXITS FROM UNDER BUILDING SLAB.
50. CONTRACTOR TO INCLUDE IN BID A COMPLETE SET OF COORDINATION DRAWINGS FOR ALL PIPING. CONTRACTOR TO PARTICIPATE WITH OTHER SUBS IN COMPILING COORDINATION DRAWINGS. COORDINATION DRAWINGS TO INCLUDE ALL ABOVE CEILING DISCIPLINES ON FLOOR PLANS AT SCALE SIMILAR TO BID DOCUMENTS.
51. GENERAL CONTRACTOR SHALL PAINT ALL PLUMBING PENETRATIONS (VENTING, FLASHING, ETC..) THROUGH ROOF. CONTRACTOR SHALL REFER TO ARCHITECT FOR COLOR SELECTIONS.
52. ALL SANITARY SEWER AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO THE CLOSER OF ANY INTERIOR WALLS.
53. ALL PIPING SHALL BE TESTED AS PER SPECIFICATIONS, AND WITNESS BY EITHER ENGINEER, ARCHITECT, OR OWNERS REPRESENTATIVE.
54. CONTRACTOR TO INCLUDE IN BID A COMPLETE SET OF COORDINATION DRAWINGS FOR ALL PIPING. CONTRACTOR TO PARTICIPATE WITH OTHER SUBS IN COMPILING COORDINATION DRAWINGS. COORDINATION DRAWINGS TO INCLUDE ALL ABOVE CEILING DISCIPLINES ON FLOOR PLANS AT SCALE SIMILAR TO BID DOCUMENTS.
55. PRELIMINARY INVERT PIPE PLAN: CONTRACTOR TO PROVIDE A DRAWING AT NO LESS THAN 1/8"=1'-0" SHOWING PROPOSED INVERTS OF ALL SUBSURFACE PIPING (SEWER, STORM DRAINAGE, ROOF DRAINAGE, DOMESTIC WATER, FIRE WATER, ETC.) TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. IF INVERT PIPE SUBMITTAL IS NOT MADE, NO ADDITIONAL COST WILL BE PROVIDED TO THE CONTRACTOR FOR REINSTALLING SUBSURFACE PIPING.
56. ALL FLOOR DRAINS CATCHING CONDENSATION SHALL BE "FD2" FLOOR DRAINS. ALL MECHANICAL ROOMS ARE TO BE EQUIPPED WITH "FD2" OR "FD3" FLOOR DRAINS. REFER TO PLUMBING FLOOR PLANS, AND SPECIFICATIONS.
57. CONTRACTOR TO COORDINATE ALL PLUMBING VENTS WITH X-BRACING IN WALLS, OFFSET AS REQUIRED.
58. CONTRACTOR TO PROVIDE AND INSTALL REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTOR (BFP) ON 1/2" COLD WATER LINE SERVING ALL ICE MAKERS & HUMIDIFIERS. ROUTE DRAIN FROM RPZ BFP TO RESPECTIVE DRAIN FOR ICE MAKER/HUMIDIFIER.
59. AT PROJECT COMPLETION THE CONTRACTOR SHALL REMOVE ALL DEBRIS (CONCRETE, DIRT, ETC.) FROM ALL EXTERIOR VALVE COVERS, EXTERIOR CLEANOUTS & MANHOLE COVERS, THEN APPLY TWO-PART EPOXY COATING (BLACK) FOR ALL EXTERIOR CLEANOUTS, MANHOLE COVERS, AND EXTERIOR VALVE COVERS. EPOXY COATING SHALL DRY TO A HARD FINISH, APPLY COATING PRIOR TO INSTALLATION OF ALL EXTERNAL SEALS.
60. THE ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS UPON WHICH THE CONTRACT DOCUMENTS ARE BASED MAY BE INACCURATE OR INCOMPLETE. THE CONTRACTOR SHALL COORDINATE ALL INSTALLATION REQUIREMENTS WITH THE MOST CURRENT TO DATE SEALED ARCHITECTURAL CONTRACT DOCUMENTS AND MODIFY AS REQUIRED.
61. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN BID A COMPLETE AND WORKING SYSTEM IN ACCORDANCE WITH THE MOST CURRENT TO DATE SEALED ARCHITECTURAL CONTRACT DOCUMENTS.
62. ALL FLOOR DRAINS, FLOOR SINKS, & SEWER CLEANOUTS TO HAVE ROUND TOP/COVERS.

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GENERAL PLUMBING NOTES AND LEGEND

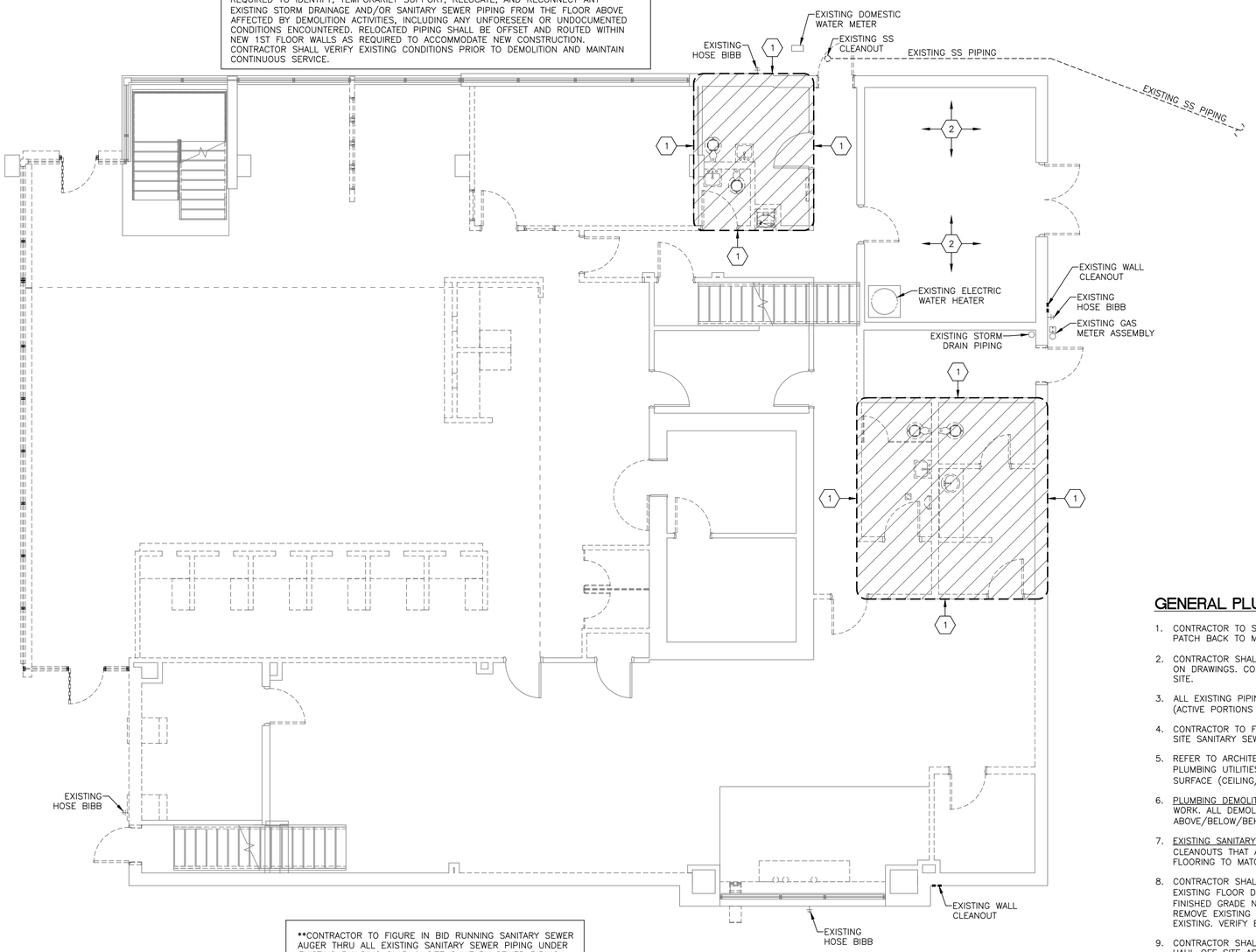
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*CONTRACTOR SHALL INCLUDE IN BID ALL LABOR, MATERIALS, AND COORDINATION REQUIRED TO IDENTIFY, TEMPORARILY SUPPORT, RELOCATE, AND RECONNECT ANY EXISTING STORM DRAINAGE AND/OR SANITARY SEWER PIPING FROM THE FLOOR ABOVE AFFECTED BY DEMOLITION ACTIVITIES, INCLUDING ANY UNFORESEEN OR UNDOCUMENTED CONDITIONS ENCOUNTERED. RELOCATED PIPING SHALL BE OFFSET AND ROUTED WITHIN NEW 1ST FLOOR WALLS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND MAINTAIN CONTINUOUS SERVICE.



**CONTRACTOR TO FIGURE IN BID RUNNING SANITARY SEWER AUGER THRU ALL EXISTING SANITARY SEWER PIPING UNDER EXISTING BUILDING SLAB & SITE SANITARY SEWER PIPING THAT ARE TO REMAIN AND BE REUSED AT CONSTRUCTION COMPLETION AS TO ENSURE PROPER FLOW AND DRAINAGE.

GENERAL PLUMBING DEMOLITION NOTES:

1. CONTRACTOR TO SAW CUT AND/OR CORE DRILL EXISTING CONCRETE TO ACCOMMODATE INSTALLATION OF NEW PLUMBING SERVICES, CONTRACTOR TO PATCH BACK TO MATCH EXISTING CONCRETE.
2. CONTRACTOR SHALL MODIFY (DEMO & REPLACE) EXISTING WALLS AS TO ACCOMMODATE THE INSTALLATION OF THE NEW PLUMBING SYSTEM AS SHOWN ON DRAWINGS. CONTRACTOR SHALL PATCH WALLS BACK TO MATCH EXISTING CONDITIONS. VERIFY EXISTING CONDITIONS & EXISTING PLUMBING ON SITE.
3. ALL EXISTING PIPING THAT IS TO BE CAPPED BELOW GRADE IS TO BE DONE IN SUCH A MANNER AS NOT TO INTERFERE WITH FLOW OF PIPING (ACTIVE PORTIONS OF PIPING THAT ARE TO REMAIN AND BE REUSED) THAT IS BEING CAPPED.
4. CONTRACTOR TO FIGURE IN BID RUNNING SANITARY SEWER AUGER THRU ALL EXISTING SANITARY SEWER PIPING UNDER EXISTING BUILDING SLAB & SITE SANITARY SEWER PIPING THAT ARE TO REMAIN AND BE REUSED AT CONSTRUCTION COMPLETION AS TO ENSURE PROPER FLOW AND DRAINAGE.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION PLAN OUTLINING FURTHER DEMOLITION SCOPE OF WORK. ALL DEMOLISHED PLUMBING UTILITIES THAT ARE NOT TO BE REPLACED OR REUSED SHALL HAVE THEIR RESPECTIVE UTILITIES CAPPED ABOVE/BELOW/BEHIND FINISHED SURFACE (CEILING/FLOOR/WALL), PATCH TO MATCH EXISTING/NEW CONDITIONS.
6. PLUMBING DEMOLITION: REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION PLAN OUTLINING FURTHER DEMOLITION SCOPE OF WORK. ALL DEMOLISHED PLUMBING UTILITIES THAT ARE NOT TO BE REPLACED OR REUSED SHALL HAVE THEIR RESPECTIVE UTILITIES CAPPED ABOVE/BELOW/BEHIND FINISHED SURFACE (CEILING/FLOOR/WALL), PATCH TO MATCH EXISTING/NEW CONDITIONS.
7. EXISTING SANITARY SEWER CLEANOUTS: THE CONTRACTOR IS TO REPLACE ALL EXISTING INTERIOR FLOOR CLEANOUT COVERS OF ALL EXISTING FLOOR CLEANOUTS THAT ARE TO REMAIN AND BE REUSED. CHIP OUT CONCRETE/FLOORING AS REQUIRED FOR A FLUSH INSTALLATION. PATCH CONCRETE & FLOORING TO MATCH FINISHED FLOOR. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING FLOOR CLEANOUTS PRIOR TO BID.
8. CONTRACTOR SHALL FIGURE IN BID TO REMOVE ANY EXISTING FLOOR DRAINS LOCATED IN AREA THAT IS TO BE DEMOLISHED. CONTRACTOR TO HAUL EXISTING FLOOR DRAIN OFF SITE AS DEBRIS. CAP EXISTING PLUMBING SERVICES (SANITARY SEWER, VENT, TRAP PRIMER PIPING, ETC.) BELOW FINISHED GRADE NOT TO INTERFERE WITH FLOW OF EXISTING SANITARY SEWER SYSTEM. CONTRACTOR TO SAW CUT EXISTING CONCRETE AND/OR REMOVE EXISTING FLOORING AS REQUIRED FOR DEMOLITION OF EXISTING FLOOR DRAIN AND ASSOCIATED PIPING. PATCH BACK FLOOR TO MATCH EXISTING. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID.
9. CONTRACTOR SHALL CUT AND REMOVE ALL EXISTING DOMESTIC WATER PIPING LOCATED WITHIN EXISTING WALLS THAT ARE TO BE DEMOLISHED AND HAUL OFF SITE AS DEBRIS. CONTRACTOR TO CAP EXISTING DOMESTIC WATER PIPING WITHIN CEILING SPACE. REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION PLAN OUTLINING FURTHER DEMOLITION SCOPE OF WORK. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID.

PLUMBING DEMOLITION PLAN NOTES: (X)

(1) CONTRACTOR SHALL REMOVE ALL EXISTING SANITARY SEWER PIPING LOCATED BELOW GRADE AND ALL EXISTING PLUMBING FIXTURES, FLOOR DRAINS, AND ASSOCIATED PLUMBING SYSTEMS (INCLUDING HARDWARE/ACCESSORIES) WITHIN THE HATCHED–OUT AREA AS INDICATED ON DRAWINGS. PLUMBING FIXTURES SHALL BE TURNED OVER TO OWNER FOR DISPOSITION. UPON OWNER'S REFUSAL, CONTRACTOR SHALL HAUL OFF SITE AS DEBRIS. EXISTING SANITARY SEWER PIPING OUTSIDE OF THE DEMOLITION LIMITS SHALL REMAIN IN SERVICE AND SHALL BE CAPPED BELOW GRADE AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION OF EXISTING SANITARY SEWER SYSTEM WITHOUT INTERRUPTION. EXISTING DOMESTIC WATER AND SANITARY VENT SYSTEMS SERVING THE DEMOLITION AREA SHALL BE CAPPED WITHIN THE 1ST FLOOR CEILING SPACE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR METHODS, MEANS, AND PHASING OF WORK REQUIRED TO PREVENT DISRUPTION OF ACTIVE SYSTEMS. REFER TO PLUMBING RENOVATION PLAN, SHEET P1.2, FOR ROUTING OF NEW SANITARY SEWER SYSTEM. MODIFY EXISTING WALLS/FLOORING AS REQUIRED. CONTRACTOR TO PATCH BACK TO MATCH EXISTING CONDITIONS. VERIFY EXACT LOCATION OF EXISTING PLUMBING FIXTURES AND/OR SERVICES PRIOR TO BID.

(2) EXISTING AREA FLOOR DRAIN(S) (LOCATED WITHIN EXISTING MECHANICAL ROOM) TO REMAIN AND BE REUSED. CONTRACTOR TO REMOVE AND REPLACE EXISTING FLOOR DRAIN STRAINER(S). NEW FLOOR DRAIN STRAINERS TO BE SECURED WITH VANDAL RESISTANT SCREWS. FIELD VERIFY EXACT LOCATION OF ALL EXISTING AREA FLOOR DRAINS WITHIN EXISTING RESTROOMS THAT ARE TO BE REUSED. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID. PROVIDE NEW BARRIER TYPE TRAP PRIMER (ASSE 1072 COMPLIANT) WITHIN EXISTING FLOOR DRAIN BODY. FIGURE IN BID TO RESET FLOOR DRAIN AS TO BE FLUSH WITH NEW FLOORING.

1 PLUMBING DEMOLITION PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

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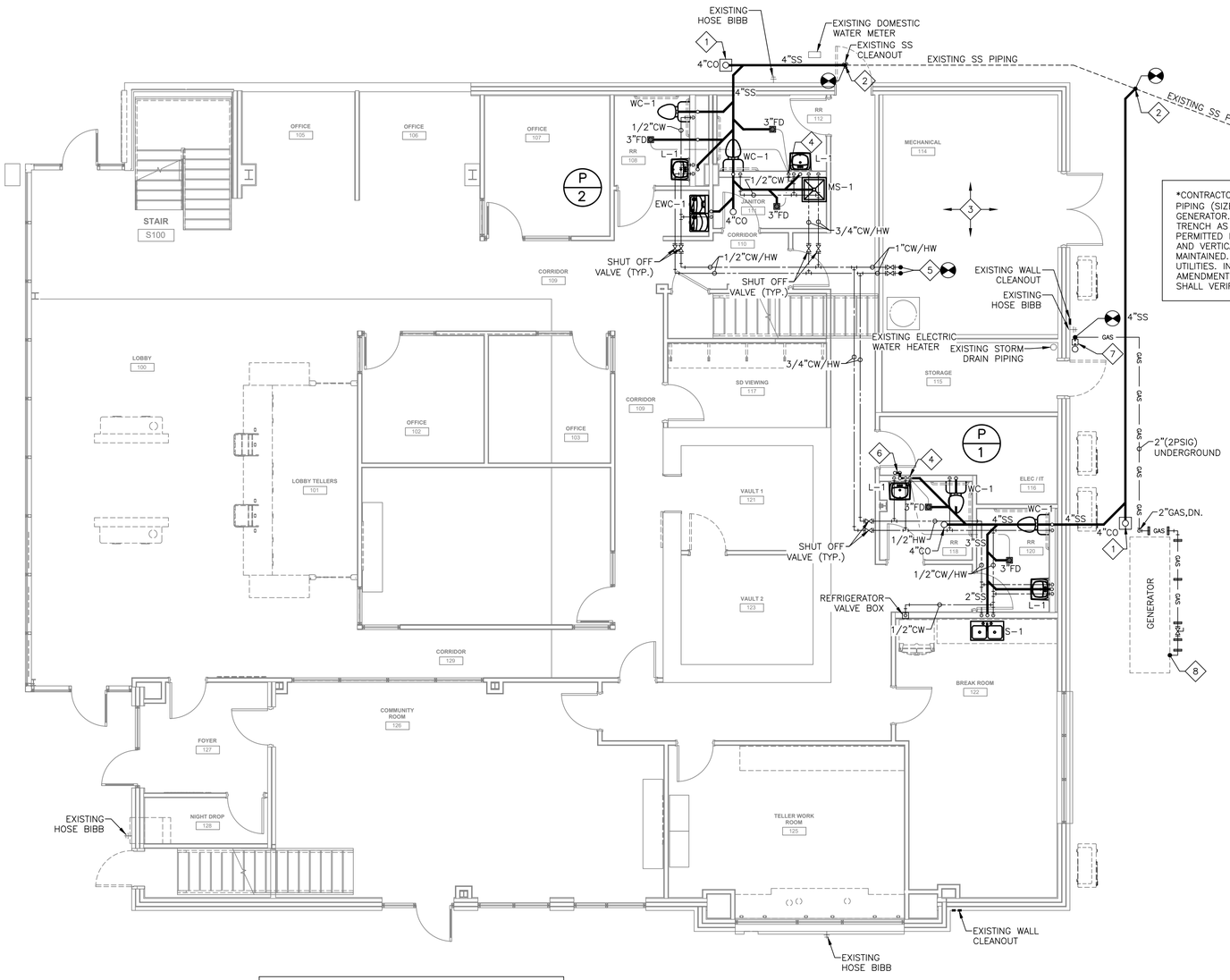
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PLUMBING DEMOLITION FLOOR PLAN

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*CONTRACTOR SHALL FIELD ROUTE NEW UNDERGROUND GAS PIPING (SIZES SHOWN ON DRAWINGS) SERVING THE NEW GAS GENERATOR. GAS PIPING MAY BE INSTALLED IN THE SAME TRENCH AS THE NEW SANITARY SEWER ONLY WHERE PERMITTED BY CODE AND WHERE ALL REQUIRED HORIZONTAL AND VERTICAL SEPARATIONS, BEDDING, AND PROTECTION ARE MAINTAINED. COORDINATE WITH ALL TRADES AND EXISTING UTILITIES. INSTALLATION SHALL COMPLY WITH IPC, IFGC, LOCAL AMENDMENTS, AND GAS UTILITY REQUIREMENTS. CONTRACTOR SHALL VERIFY TRENCH CONDITIONS PRIOR TO BACKFILL.

*CONTRACTOR TO FIGURE IN BID RUNNING SANITARY SEWER AUGER THRU ALL EXISTING SANITARY SEWER PIPING UNDER EXISTING BUILDING SLAB & SITE SANITARY SEWER PIPING THAT ARE TO REMAIN AND BE REUSED AT CONSTRUCTION COMPLETION AS TO ENSURE PROPER FLOW AND DRAINAGE.

**CONTRACTOR TO SUPPORT ALL PIPING (SANITARY SEWER, GREASE WASTE, WATER PIPING, ETC.) UNDER SLAB, CONTRACTOR TO ISOLATE BETWEEN DISSIMILAR METALS WITH 15 MILS. OF POLYETHYLENE TAPE. REFER TO DETAIL #2, SHEET P3.2.

GENERAL PLUMBING NOTES:

1. SHOULD A DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS ARISE, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY AND SHALL NOT PROCEED WITH ANY WORK UNTIL THE DISCREPANCY IS RESOLVED.
2. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO BEGINNING ANY WORK. SUBMISSION OF BID DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE/SHE WILL BE OBLIGATED TO OPERATE. SHOULD THEY BE AWARDED THE WORK UNDER THIS CONTRACT NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE TO EXAMINE THE SITE PRIOR TO BID.
3. ALL UTILITY TIE–IN LOCATIONS (SANITARY SEWER, DOMESTIC WATER, NATURAL GAS, ETC.) ARE TO BE LOCATED AT THE BEGINNING OF PROJECT, PRIOR TO ANY/ALL CONSTRUCTION. UPON LOCATING TIE–IN LOCATIONS, CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IF ANY CONFLICTS ARISE FOR FURTHER ACTION.
4. NEW PLUMBING FIXTURES TO BE INSTALLED AS SHOWN ON DRAWINGS. MODIFY EXISTING PLUMBING SERVICES TO ACCOMMODATE NEW PLUMBING FIXTURES. CONTRACTOR TO FIELD VERIFY AND INSPECT ALL EXISTING PLUMBING SERVICES PRIOR TO BID. VERIFY EXISTING CONDITIONS ON JOB SITE.
5. CONTRACTOR TO SAW CUT AND/OR CORE DRILL EXISTING CONCRETE TO ACCOMMODATE INSTALLATION OF NEW PLUMBING SERVICES, CONTRACTOR TO PATCH BACK TO MATCH EXISTING CONCRETE.
6. CONTRACTOR SHALL CUT AND REPAIR EXISTING GRADE BEAMS AS TO ACCOMMODATE INSTALLATION OF NEW PLUMBING SERVICES AS SHOWN ON DRAWING. COORDINATE WITH STRUCTURAL ON ALL LOCATIONS OF PLUMBING SERVICES PENETRATING EXISTING GRADE BEAMS PRIOR TO CONSTRUCTION. VERIFY EXISTING CONDITIONS & EXISTING PLUMBING ON SITE.
7. CONTRACTOR SHALL MODIFY EXISTING WALLS AS TO ACCOMMODATE INSTALLATION OF NEW PLUMBING SYSTEM AS SHOWN ON PLAN. EXTERIOR WALLS TO BE CORE DRILLED AS REQUIRED. CONTRACTOR SHALL PATCH WALLS BACK TO MATCH EXISTING CONDITIONS. VERIFY EXISTING CONDITIONS & EXISTING PLUMBING ON SITE.
8. CONTRACTOR TO VERIFY DEPTH/ELEVATION/INVERTS OF ALL EXISTING SANITARY SEWER, DOMESTIC WATER, ETC. PRIOR TO ANY AND ALL CONSTRUCTION. IF EXISTING PIPING IS AT AN ELEVATION THAT DOES NOT PROPERLY ALLOW FOR THE INSTALLATION OF NEW UTILITIES THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR FURTHER ACTION.
9. LOCATION OF EXISTING UTILITIES WERE DERIVED FROM EXISTING DRAWINGS PROVIDED BY ARCHITECT AND FIELD INVESTIGATION. CONTRACTOR SHALL ALLOW FOR SOME VARIANCE AND INCLUDE IN BID. CONTRACTOR SHALL FIELD VERIFY ALL TIE IN LOCATIONS, CONTRACTOR SHALL EXPECT SOME VARIATION AND SHALL INCLUDE THIS IN HIS BID.
10. OWNER TO HAVE FIRST RIGHT OF REFUSAL OF ALL REMOVED MATERIAL, PIPING, EQUIPMENT, HANGERS, ETC., UPON REFUSAL THE CONTRACTOR IS TO HAUL OFF SITE AS DEBRIS.
11. EXISTING BUILDING CONDITIONS:
    11.1. CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS AND SPACE LIMITATIONS AT THE SITE AND SHALL INCLUDE IN HIS BID ALL REQUIRED SPECIAL ADJUSTMENTS BECAUSE OF SITE CONDITIONS. VERIFY CONDITIONS DURING CONSTRUCTION BEFORE FABRICATION OF SYSTEM COMPONENTS. EARLY FABRICATION WILL NOT BE JUSTIFICATION FOR EXTRA PAYMENTS FOR CHANGES DUE TO JOB CONDITIONS.

PLUMBING PLAN NOTES: (X)

1. CONTRACTOR TO PROVIDE AND INSTALL EXTERIOR CLEANOUT, REFER TO DETAIL #7, SHEET P3.1.
2. CONTRACTOR TO FIELD ROUTE NEW SANITARY SEWER PIPING (SIZES SHOWN ON DRAWING) TO EXISTING SANITARY SEWER PIPING OF SUFFICIENT SIZE AND CONNECT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT OF EXISTING SANITARY SEWER PIPING PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT/ENGINEER ON EXACT LOCATION DURING CONSTRUCTION. FIGURE IN BID AN ADDITIONAL 50' OF SANITARY SEWER PIPING. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE AS REQUIRED IN ORDER TO PROPERLY INSTALL NEW SEWER PIPING. PATCH BACK AS TO MATCH EXISTING CONDITIONS UPON COMPLETION OF PLUMBING WORK. ARCHITECT TO HAVE FINAL APPROVAL OF PATCHED BACK CONCRETE & FLOORING. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID.
3. EXISTING AREA FLOOR DRAIN(S) (LOCATED WITHIN EXISTING MECHANICAL ROOM) TO REMAIN AND BE REUSED. CONTRACTOR TO REMOVE AND REPLACE EXISTING FLOOR DRAIN STRAINER(S). NEW FLOOR DRAIN STRAINERS TO BE SECURED WITH VANDAL RESISTANT SCREWS. FIELD VERIFY EXACT LOCATION OF ALL EXISTING AREA FLOOR DRAINS WITHIN EXISTING RESTROOMS THAT ARE TO BE REUSED. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID. PROVIDE NEW BARRIER TYPE TRAP PRIMER (ASSE 1072 COMPLIANT) WITHIN EXISTING FLOOR DRAIN BODY. FIGURE IN BID TO RESET FLOOR DRAIN AS TO BE FLUSH WITH NEW FLOORING.
4. CONTRACTOR TO PROVIDE AND INSTALL AUTOMATIC TRAP PRIMER WITH AIR GAP, FIELD ROUTE 1/2" LINE INSIDE WALL, DOWN INSIDE, UNDERGROUND TO FLOOR DRAIN, REFER TO DETAIL #10, SHEET P3.1.
5. CONTRACTOR TO FIELD ROUTE NEW HOT AND COLD WATER PIPING (SIZES SHOWN ON DRAWING) WITH SHUT OFF VALVES TO EXISTING HOT/COLD WATER PIPING OF SUFFICIENT SIZE LOCATED WITHIN EXISTING MECHANICAL ROOM AND CONNECT. CONTRACTOR TO LOCATE TIE–IN POINT PRIOR TO ANY AND ALL WORK, VERIFY EXISTING SIZE & LOCATION OF EXISTING HOT & COLD DOMESTIC WATER PIPING. COORDINATE WITH ARCHITECT/ENGINEER ON EXACT LOCATION DURING CONSTRUCTION. CONTRACTOR SHALL MODIFY EXISTING WALLS AND/OR CEILINGS AS REQUIRED IN ORDER TO PROPERLY INSTALL NEW DOMESTIC WATER PIPING. PATCH BACK AS TO MATCH EXISTING CONDITIONS UPON COMPLETION OF PLUMBING WORK. ARCHITECT TO HAVE FINAL APPROVAL OF PATCHED SURFACES. VERIFY EXISTING CONDITIONS ON JOB SITE PRIOR TO BID.
6. CONTRACTOR TO PROVIDE 2" HUB DRAIN STUBBED OUT WALL TO RECEIVE CONDENSATE FROM AIR HANDLING UNIT, CONTRACTOR TO ROUTE CONDENSATE FROM AIR HANDLING UNIT TO HUB DRAIN AND TURN DOWN AT FUNNEL. COORDINATE EXACT LOCATION TO ENSURE GRAVITY FLOW OF CONDENSATE.
7. CONTRACTOR SHALL FIGURE IN BID TO REMOVE AND REPLACE EXISTING GAS METER ASSEMBLY. NEW GAS METER/REGULATOR SHALL BE SIZED TO ACCOMMODATE AN ADDITIONAL 1,000 CFH (1,000,000 BTU) GAS LOAD. NEW GAS REGULATOR SHALL BE SIZED DOWN FROM EXISTING PRESSURE TO MANUFACTURER RECOMMENDED OPERATING PRESSURE TO SERVE GAS GENERATOR. CONTRACTOR TO VERIFY OPERATING PRESSURE WITH MANUFACTURER OF ACTUAL EQUIPMENT (THAT IS TO BE SUPPLIED TO THE PROJECT) PRIOR TO INSTALLATION. NATURAL GAS REGULATOR TO BE GOVERNOR SERIES AS MANUFACTURED BY PIETRO FLORENTINI (REGULATOR TO HAVE INTEGRAL VENT LIMITER, CAPACITY RANGE OF 500 TO 1 TURNDOWN). CONTRACTOR TO COORDINATE WITH LOCAL GAS COMPANY TO REPLACE EXISTING GAS METER ASSEMBLY, AND INCLUDE ALL COST (FEES, PERMITS, METER, INSTALLATION, ETC.) IN BID.
8. CONTRACTOR SHALL FIELD ROUTE 2" (10"W.C.) GAS PIPING TO NEW GAS–FIRED GENERATOR AND CONNECT. REFER TO ELECTRICAL DRAWINGS FOR GENERATOR SPECIFICATIONS AND EXACT LOCATION PRIOR TO INSTALLATION. PROVIDE AND INSTALL PIPE SUPPORTS AND HANGERS SPACED PER APPLICABLE CODE AND MANUFACTURER REQUIREMENTS TO PREVENT SAGGING, STRESS, OR TRANSMISSION OF LOADS TO EQUIPMENT. PROVIDE AND INSTALL SHUT–OFF VALVE (EQUIPPED WITH MANOMETER PORT), UNION, AND DIRT LEG AT POINT–OF–CONNECTION. COORDINATE WITH EQUIPMENT SPECIFICATIONS ON EXACT CONNECTIONS PRIOR TO INSTALLATION AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1 PLUMBING RENOVATION PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

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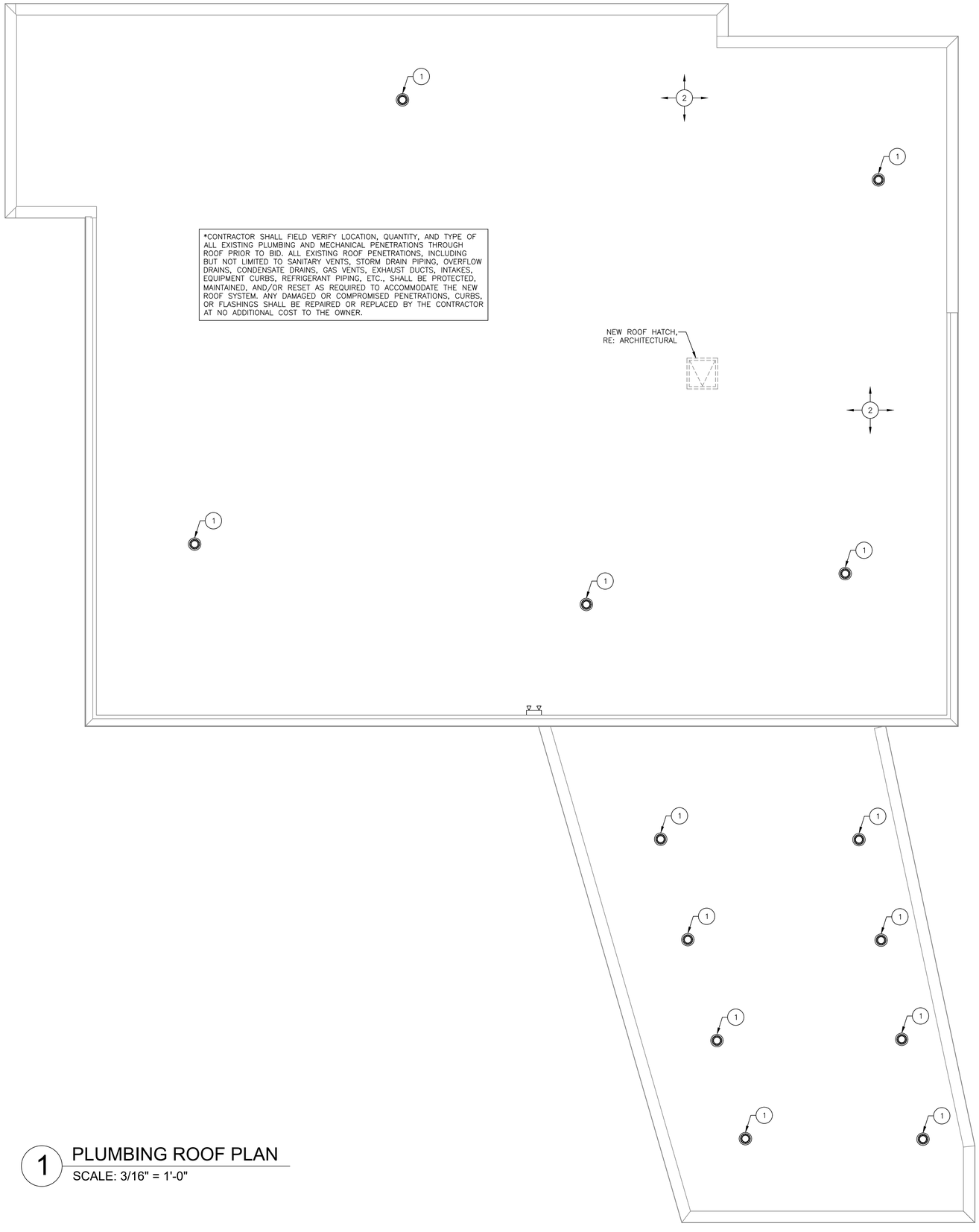
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PLUMBING RENOVATION FLOOR PLAN

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1 PLUMBING ROOF PLAN
SCALE: 3/16" = 1'-0"

PLUMBING ROOF PLAN NOTES: (X)

1. ALL EXISTING ROOF DRAINS SHALL BE REMOVED AND HAULED OFF SITE AS DEBRIS. PROVIDE AND INSTALL NEW ROOF DRAINS COMPATIBLE WITH NEW ROOF ASSEMBLY AND INSULATION THICKNESS. ROOF DRAIN INSTALLATION SHALL BE FULLY COORDINATED WITH ARCHITECTURAL AND ROOFING WORK. CONTRACTOR SHALL VERIFY FINAL ROOF ELEVATIONS, DECK CONDITIONS, AND DRAIN BODY EXTENSIONS REQUIRED FOR PROPER FLASHING AND POSITIVE DRAINAGE. MAINTAIN WEATHER–TIGHT CONDITIONS AND TEMPORARY DRAINAGE AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN BID CUTTING, PATCHING, AND REPAIR OF ROOF DECK AND ROOF SYSTEM AS REQUIRED FOR DRAIN INSTALLATION.
2. ALL EXISTING SANITARY VENT ROOF PENETRATIONS WITHIN EXISTING ROOF SHALL BE IDENTIFIED, MAINTAINED, AND RE–FLASHED TO ACCOMMODATE THE NEW ROOF ASSEMBLY. ANY SANITARY VENT PENETRATIONS NO LONGER SERVING ACTIVE PLUMBING SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY AND HAULED OFF SITE AS DEBRIS. RESULTANT ROOF OPENINGS SHALL BE PATCHED AND MADE WEATHER–TIGHT. ACTIVE SANITARY VENTS SHALL BE EXTENDED AS REQUIRED TO MAINTAIN CODE–COMPLIANT TERMINATION HEIGHTS ABOVE FINISHED ROOF. CONTRACTOR SHALL VERIFY ALL SANITARY VENTS IN FIELD AND COORDINATE WITH ARCHITECT AND OWNER PRIOR TO REMOVAL. MAINTAIN WEATHER–TIGHT CONDITIONS AT ALL TIMES. CUTTING, PATCHING, AND REPAIR OF ROOF SYSTEM AND DECK AS REQUIRED FOR PROPER FLASHING SHALL BE INCLUDED.

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No.	Description	Date

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SHEET TITLE:
PLUMBING ROOF PLAN

SHEET NUMBER:
P1.3

EYRE ENGINEERING
PRINTED: 2.16.2026

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	PIPE CONNECTION				SPECIFICATION
			C.W.	H.W.	WASTE	VENT	
WC–1	HANDICAPPED WATER CLOSET	ZURN MODEL Z5560, OR APPROVED EQUAL	1/2"	–	4"	3"	FLOOR MOUNTED, WHITE VIT CHINA, ADA COMPLIANT, ELONGATED BOWL, 17" HIGH BOWL, CLOSED COUPLED TANK, SIPHON JET ACTION, PRESSURE ASSISTED, CHURCH MODEL #9500SSCT, (OR APPROVED EQUAL) OPEN FRONT SEAT WITH SELF–SUSTAINING CHECK HINGES WITH NON–CORRODING STAINLESS STEEL POST, WHITE.
L–1	LAVATORY	ZURN MODEL Z5341, OR APPROVED EQUAL	1/2"	1/2"	2"	2"	WALL HUNG WITH TAILPIECE, 3 HOLE, 4" CENTERS, GRID STRAINER DRAIN. PROVIDE 0.5 FLOW RESTRICTOR, P–TRAP, STOPS, SUPPLIES & CONCEALED ARMS WALL CARRIER. LAVATORY TO BE EQUIPPED WITH MOLDED TRUEBRO LAV–SHIELD (OR APPROVED EQUAL) PROTECTIVE LAVATORY ENCLOSURE. FAUCET: CHICAGO MODEL 420–T41E2805ABCP, (OR APPROVED EQUAL) SINGLE–LEVER FAUCET WITH INTEGRATED ASSE 1070 COMPLIANT THERMOSTATIC CONTROL FOR SCALD PROTECTION, SOLID LEAD–FREE BRASS CONSTRUCTION, VANDAL RESISTANT 0.5 GPM FLOW RESTRICTOR, PROVIDE DECKPLATE.
S–1	SINK	ELKAY MODEL ELUHAD311855, OR APPROVED EQUAL	1/2"	1/2"	2"	2"	UNDER–COUNTER MOUNTED, 18 GA. TYPE 304 STAINLESS STEEL, ADA COMPLIANT, 6.5" DEEP BOWL. SINGLE HOLE, REAR–CENTER DRAIN LOCATION, GRID STRAINER DRAIN. PROVIDE P–TRAP, STOPS, SUPPLIES. FAUCET: KOHLER MODEL K–596–VS (OR APPROVED EQUAL) DECK MOUNTED FAUCET WITH GOOSENECK SPOUT.
MS–1	MOP SINK	ZURN MODEL Z1996–24–SDL, OR APPROVED EQUAL	3/4"	3/4"	3"	2"	FLOOR MOUNTED, 24"X24"X10" DEEP, MOP SERVICE BASIN WITH STAINLESS STEEL 2" DRAIN OUTLET. PROVIDE AND INSTALL HOSE AND BRACKET COMBO (ZURN MODEL Z1996–HH, OR APPROVED EQUAL), MOP HANGER BRACKET (ZURN MODEL Z1996–MH, OR APPROVED EQUAL). PROVIDE FRP WALL SURROUND. FAUCET: ZURN MODEL Z843M1–RC–CS–HCT (OR APPROVED EQUAL) WALL MOUNTED 8" FAUCET EQUIPPED WITH VACUUM BREAKER SPOUT, PAIL HOOK, QUARTER TURN CERAMIC DISC CARTRIDGES, VANDAL RESISTANT COLOR CODED BRASS LEVER HANDLES, & HOSE THREADS. CONTRACTOR TO COORDINATE EXACT MOUNTING HEIGHTS PRIOR TO INSTALLATION.
EWC–1	ELECTRIC WATER COOLER	ELKAY MODEL LZOOTL8WSSK, OR APPROVED EQUAL	1/2"	–	2"	2"	WALL HUNG, FRONT PUSHBARS EQUIPPED WITH SENSOR OPERATED HANDS–FREE ACTIVATION, FILTERED, 8.0 GPM OF 50° WATER @ 90° AMBIENT, DUAL LEVEL, ADA COMPLIANT. STAINLESS STEEL LOWER SHROUD, EQUIPPED WITH SENSOR OPERATED, EZH2O BOTTLE FILLER, AUTO 20–SECOND SHUT–OFF TIMER, ANTIMICROBIAL, FLEXI–GUARD SAFETY BUBBLER. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHTS, ELECTRICAL SERVICE 120/1/60. CONTRACTOR SHALL FIGURE IN BID TO PROVIDE AND INSTALL CANE–APRON (ELKAY EZ SERIES, OR APPROVED EQUAL) AS REQUIRED.

GENERAL NOTES:

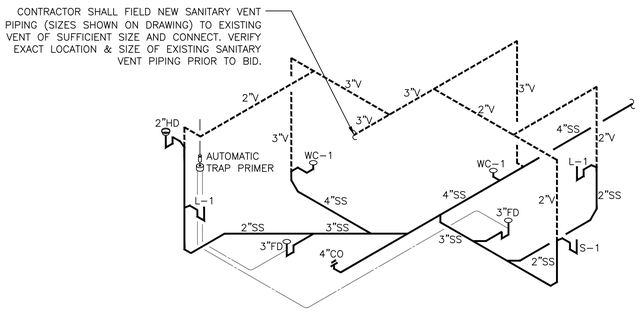
1. SINKS TO MEET ADA STANDARDS, MIN. CLEARANCE 29" FROM FLOOR TO BOTTOM OF APRON. EXPOSED DRAIN AND WATER PIPING UNDER SINK SHALL NOT INTERFERE W/ REQUIRED KNEE CLEARANCE AND BE COVERED WITH TWO–PIECE, SNAP–ON, PVC INSULATED COVERS, TRUEBRO "HANDI LAV–GUARD", PLUMBEREX 3000, OR APPROVED EQUAL.
2. ANY AND ALL MANUFACTURERS AND OR MODEL NUMBERS NOT LISTED IN PLUMBING SCHEDULES ARE TO BE SUBMITTED TO ARCHITECT & ENGINEER FOR PRIOR APPROVAL. ALL PRIOR APPROVAL SUBMITTALS ARE TO INCLUDE MODEL NUMBERS AND CUT SHEET. SUBMITTALS THAT DO NOT INCLUDING CUT SHEETS WILL NOT BE APPROVED.
3. ALL MODEL NUMBERS SPECIFIED MAY NOT NECESSARILY INCLUDE ALL OPTIONS LISTED WITHIN SPECIFICATION SECTION. THIS DOES NOT EXEMPT THE CONTRACTOR FROM EXCLUDING SUCH OPTIONS AS LISTED WITHIN THE SPECIFICATION SECTION.
4. HARDWARE (CARRIAGE BOLTS, ETC.) USED TO ATTACHED ALL PLUMBING FIXTURES IS TO BE STAINLESS STEEL, NO EXCEPTION. PROVIDE SUBMITTAL TO ARCHITECT PRIOR TO INSTALLATION.
5. APPROVED MANUFACTURERS (NAME BRAND ONLY, SEE NOTE #3): MOEN, ZURN, CHICAGO, SLOAN, BRADLEY, KOHLER, MANSFIELD, CENTOCO, MIFAB, WATTS, AMERICAN STANDARD, ACORN, FLORESTONE, WILKINS, JR SMITH, MUSTEE, GERBER, RHEEM, SYMMONS, HAMILTON.
6. WALL MOUNTED LAVATORIES SHALL BE EQUIPPED WITH MOLDED TRUEBRO LAV–SHIELD (OR APPROVED EQUAL) PROTECTIVE LAVATORY ENCLOSURE. ALL OTHER LAVATORY P–TRAPS & SUPPLIES SHALL BE COVERED WITH TWO–PIECE, SNAP–ON, PVC INSULATED COVERS, TRUEBRO "HANDI LAV–GUARD", PLUMBEREX 3000, OR APPROVED EQUAL.

TRAP PRIMERS

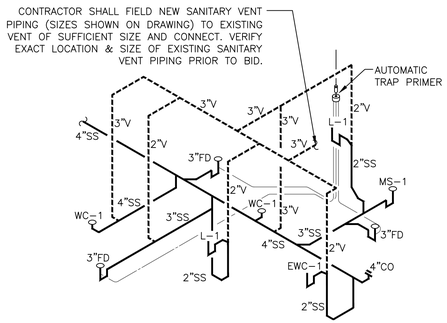
ALL FLOOR DRAINS AND FLOOR SINKS TO BE PROVIDED WITH TRAP PRIMER CONNECTION. CONTRACTOR TO PROVIDE AND INSTALL AUTOMATIC TRAP PRIMER WITH AIR GAP TO SERVE EACH FLOOR DRAIN AND/OR FLOOR SINK, REFER TO DETAIL #10, SHEET P3.1. AUTOMATIC TRAP PRIMERS SHALL BE FIELD INSTALLED ABOVE CEILING IN ACCESSIBLE LOCATION. FIELD ROUTE TRAP PRIMER PIPING BELOW GRADE FROM DRAIN CONNECTION TO AUTOMATIC TRAP PRIMER AND CONNECT. CONTRACTOR NOT TO EXCEED THE MANUFACTURERS RECOMMENDED DISTANCE FROM TRAP PRIMER ASSEMBLY TO FLOOR DRAIN/SINK BEING SERVED. COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION & INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. TRAP PRIMER PIPING MAY NOT BE SHOWN ON RISER DIAGRAMS FOR CLARITY.

WATER HAMMER ARRESTOR

CONTRACTOR SHALL PROVIDE ASSE 1010 COMPLIANT WATER HAMMER ARRESTORS ON ALL CW AND HW LINES AT ALL FIXTURES TO PREVENT WATER HAMMER.



P/1 RISER DIAGRAM
NO SCALE



P/2 RISER DIAGRAM
NO SCALE

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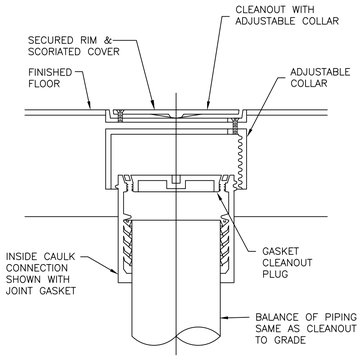
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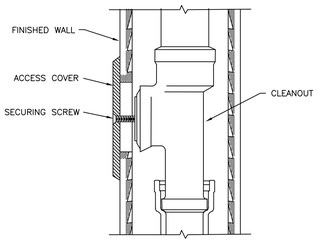
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PLUMBING SCHEDULES & RISER DIAGRAMS

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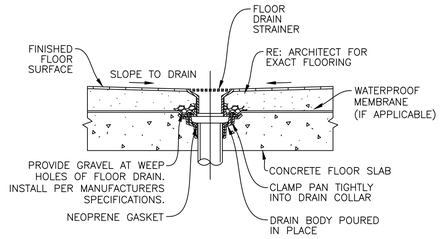


1 DETAIL - FLOOR CLEANOUT
NTS

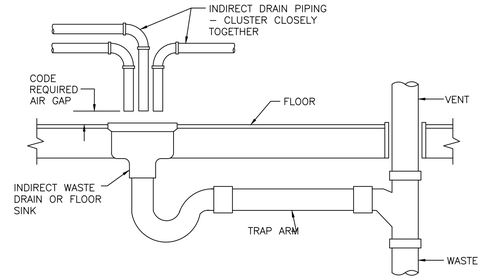


*ALL WALL MOUNTED PLUMBING FIXTURES (WASH STATIONS, WATER COOLERS, ET.) ARE TO HAVE 2" WALL CLEAN OUT WITH CHROME PLATED COVER AS TO CLEAN SANITARY SEWER BRANCH LINE OUT WITHOUT REMOVING FIXTURE.

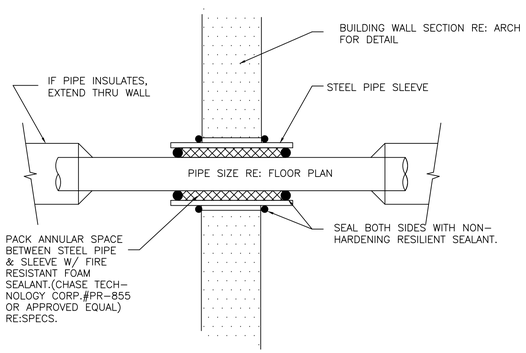
2 DETAIL - WALL CLEANOUT
NTS



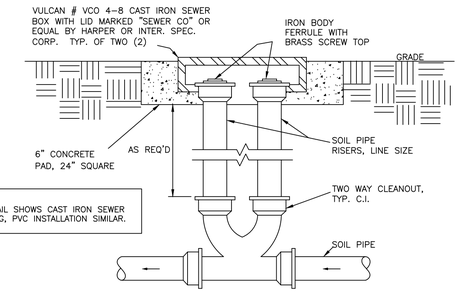
3 DETAIL - FLOOR DRAIN INSTALLATION
NTS



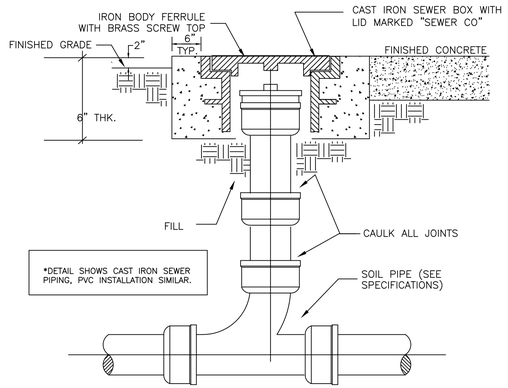
4 DETAIL - INDIRECT WASTE
NTS



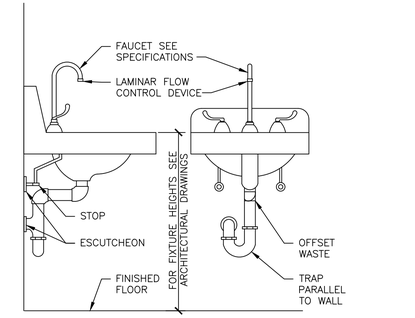
5 DETAIL - PIPE PENETRATION THRU WALL
NTS



6 DETAIL - 2-WAY EXTERIOR CLEANOUT
NTS

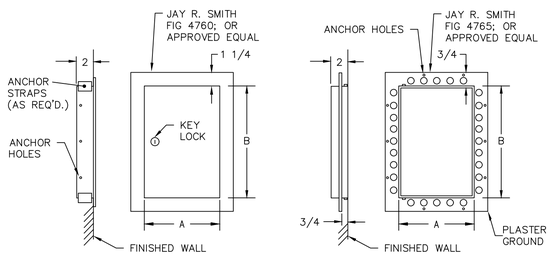


7 DETAIL - EXTERIOR CLEANOUT
NTS



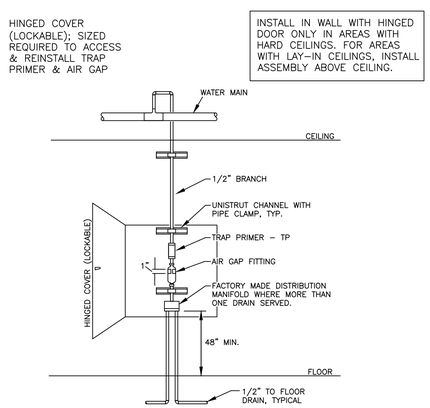
GENERAL NOTES:
1. PROVIDE OFFSET WASTE AT ALL ADA COMPLIANT LAVATORIES & SINKS.
2. LAVATORY SHOWN IN DETAIL, DETAIL TYPICAL OF BOTH LAVATORIES & SINKS.

8 DETAIL - PLUMBING FIXTURE P-TRAP OFF-SET
NTS

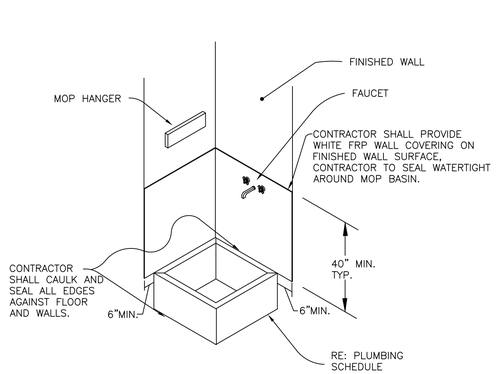


NOTES:
1. MINIMUM SIZE FOR WASTE PIPE CLEANOUT ACCESS DOOR = 12 X 16 ("A" X "B").
2. MINIMUM SIZE FOR DOMESTIC WATER VALVE ACCESS DOOR = 10 X 10 ("A" X "B").
3. ACCESS DOOR TO BE OF PRIME COATED STEEL, UNLESS OTHER WISE NOTED.

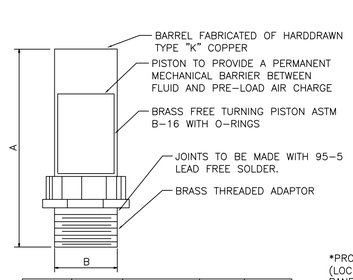
9 DETAIL - ACCESS DOOR (TYPICAL)
NTS



10 DETAIL - AUTOMATIC TRAP PRIMER
NTS



11 DETAIL - MOP SINK
NTS



SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 – 11	5"	1/2"
3/4"	B	12 – 32	5"	3/4"
1"	C	33 – 60	7"	1"
1–1/4"	D	61 – 113	7"	1–1/4"
1–1/2"	E	114 – 154	9"	1–1/2"
2"	F	155 – 330	9"	2"

*PROVIDE HINGED COVER (LOCKABLE) ACCESS PANEL FOR ALL WATER HAMMER ARRESTOR INSTALLED WITHIN INACCESSIBLE WALLS. COORDINATE LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

12 DETAIL - WATER HAMMER ARRESTOR
NTS

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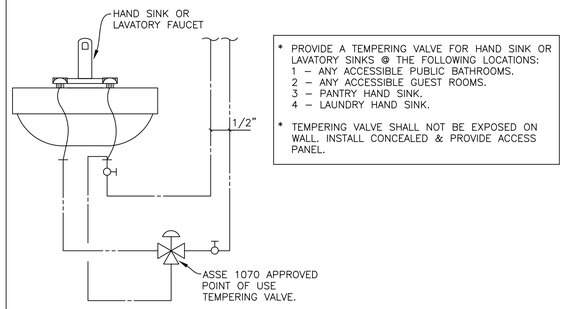
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PLUMBING DETAILS

SHEET NUMBER:
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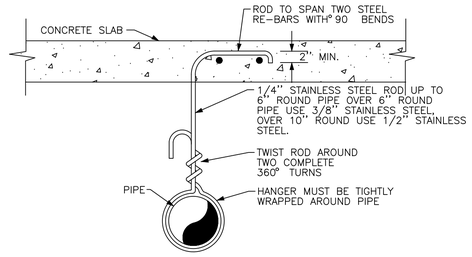


* PROVIDE A TEMPERING VALVE FOR HAND SINK OR LAVATORY SINKS @ THE FOLLOWING LOCATIONS:
  1 – ANY ACCESSIBLE PUBLIC BATHROOMS.
  2 – ANY ACCESSIBLE GUEST ROOMS.
  3 – PANTRY HAND SINK.
  4 – LAUNDRY HAND SINK.

* TEMPERING VALVE SHALL NOT BE EXPOSED ON WALL. INSTALL CONCEALED & PROVIDE ACCESS PANEL.

1 DETAIL - TEMPERING VALVE INSTALLATION SCHEMATIC
NTS

NOTE:
HANGER SPACING SHALL NOT EXCEED 4' AND A HANGER SHALL BE AT EVERY FITTING.



NOTE:
CONTRACTOR TO SUPPORT ALL PIPING (SANITARY SEWER, STORM DRAINAGE, FIRE LINE, WATER PIPING, ETC.) UNDER SLAB, CONTRACTOR TO ISOLATE BETWEEN DISSIMILIAR METALS WITH 15 MILS. OF POLYETHENE TAPE.

2 DETAIL - STAINLESS STEEL PIPE HANGERS
NTS

3 DETAIL - NOT USED
NTS

4 DETAIL - NOT USED
NTS

SCHEDULE	
PIPE	ROD DIA.
3/4" – 2"	3/8"
2-1/2" – 3"	1/2"

NOTE: PIPING TO BE SUPPORTED ON 4'0" CENTERS AND AT ALL TURNS

5 DETAIL - PIPING SUPPORTS
NTS

GENERAL NOTES:
1. HUB DRAIN TO COME WITH PROTECTIVE CAP AND 2" TRAP GUARD BUILT IN TO HANDLE UP TO 12 GPM.
2. INSTALLATION TYPICAL TO ANY HUB DRAIN ASSEMBLY, PLASTIC OR CAST IRON PIPE.
3. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT INSTALLATION HEIGHT AS TO GRAVITY FLOW CONDENSATE DRAIN PIPING FROM EVAPORATOR COIL.
4. DO NOT CONTACT FLEXIBLE MATERIAL WITH PRIMER OR SOLVER CEMENT.
5. USE PROSET E-Z FLEX COUPLING CONNECTION FOR CAST IRON PIPING.
6. INSPECT TRAP GUARD FOR DEBRIS AND FLUSH WITH CLEAR, WARM WATER PRIOR TO JOB COMPLETION.
7. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION.

6 DETAIL - HUB DRAIN FOR CONDENSATE REMOVAL
NTS

GENERAL NOTES:
1. COPPER PLATED BRACKET SUPPORTS TO BE BY HOLDRITE OR PRIOR APPROVED EQUAL.
2. CONTRACTOR TO PROVIDE PIPE SUPPORTS FOR ALL DOMESTIC COLD/HOT WATER PIPING DROPS WITHIN WALLS TO FIXTURES/EQUIPMENT. PIPE CLAMP TO BE ANVIL CT-138R COPPER PLATED SPLIT TUBING CLAMP, PROVIDE 3/8"THREADED ROD AS REQUIRED TO NEAREST WALL FRAMING MEMBER, PROVIDE 3/8" FEMALE THREADED ROD ZINC-PLATED BASEPLATE (ANVIL 128R) FASTENED TO WALL FRAMING MEMBER. PROVIDE A MINIMUM OF ONE (1) SUPPORT ASSEMBLY AT EACH DROP IN ADDITION TO COPPER PLATED HOLDRITE SYSTEM.

WATER CLOSET PIPE SUPPORT DETAIL

URINAL PIPE SUPPORT DETAIL

LAV./SINK PIPE SUPPORT DETAIL

7 DETAIL - WATER PIPE SUPPORT/ANCHOR BEHIND FIXTURES INSIDE WALL
NTS

REFRIGERATOR & ICE MACHINE VALVE BOX (FIRE RATED)

A. VALVE BOX SHALL BE FULLY RECESSED FLUSH MOUNTED TYPE CONSTRUCTED OF BULK MOLDING COMPOUND (BMC) WITH UL-CLASSIFIED INTUMESCENT PADS AND UL-CLASSIFIED FYREWRAP INSULATING MATERIAL. BOX TO BE 2 HOUR FIRE RATED. VALVE SHALL COMPLY WITH NSF/ANSI 372 (ANNEX G). VALVE TO BE LOW-LEAD TYPE. VALVE BOX TO HAVE NAIL SUPPORT BRACKETS WITH SCREW-ON FACEPLATE FRAME. VALVE TO BE 1/4 TURN. SUPPLY CONNECTION SHALL BE 1/2" COPPER SWEAT CONNECTION. PROVIDE WITH WATER HAMMER ARRESTOR (ASSE 1010 COMPLIANT).
B. MANUFACTURER: OATEY MODEL 38490, GUY GRAY MODEL 82417
C. PROVIDE WITH 1/2" X 1/4" O.D. TUBE, CHROME PLATED FIXTURE SUPPLY STOP. LEAVE 60" COIL OF 1/4" O.D. TYPE "K" SOFT COPPER FOR EQUIPMENT CONNECTION (CARBONATED BEVERAGE MACHINE TO BE CONNECTED WITH PLASTIC TUBING IN LIEU OF COPPER).
D. PROVIDE WITH WATTS SD3 IN-LINE BACK FLOW PREVENTER (ASSE 1022 COMPLIANT) ON SUPPLY TUBING TO EQUIPMENT. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
E. THE FOLLOWING INSTALLATION HEIGHTS ARE RECOMMENDATION ONLY, COORDINATE WITH A4RCHITECT ON ALL MOUNTING HEIGHTS PRIOR TO INSTALLATION:
E.A. FOR FREE STANDING REFRIGERATOR WITH ICE MAKER: INSTALL BOX AT 54" A.F.F.
E.B. FOR UNDER COUNTER REFRIGERATOR ICE MAKER: INSTALL BOX AT 18" A.F.F.

8 DETAIL - VALVE BOX (ICE MACHINE/REFRIGERATOR)
NTS

9 DETAIL - NOT USED
NTS

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EUNICE, LA. 70535

No.	Description	Date

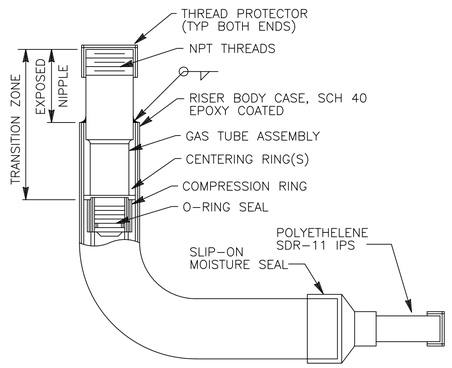
PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P3.2

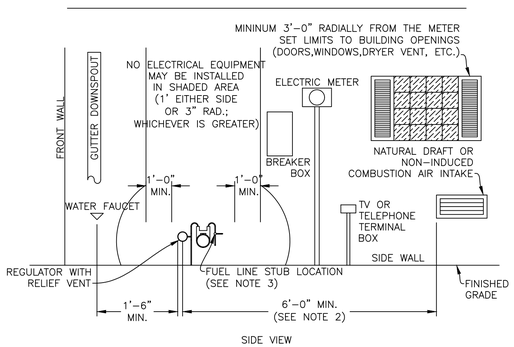
EYRE ENGINEERING
PRINTED: 2.16.2026

1 DETAIL - NOT USED
NTS



2 DETAIL - ANODELESS GAS METER RISER
NTS

TOP VIEW

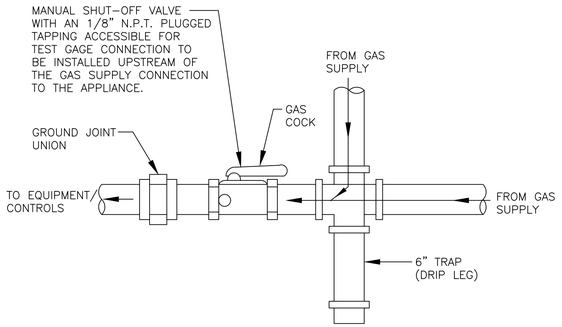


SIDE VIEW

NOTES:

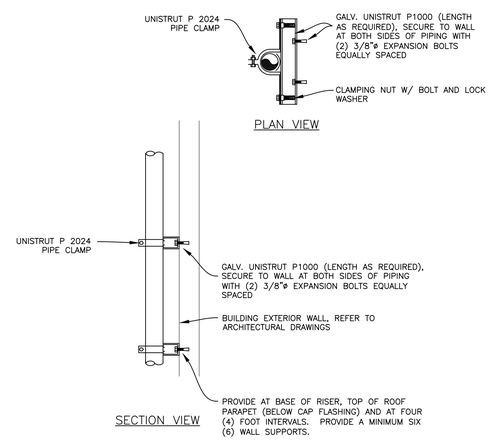
1. METER SET SHOULD BE INSTALLED ON SIDE OF BUILDING OPPOSITE THE DRIVEWAY.
2. THE MINIMUM CLEARANCE FOR A MECHANICALLY INDUCED COMBUSTION AIR INTAKE IS 20'.
3. THE FUEL LINE SHOULD TERMINATE 2'-0" ABOVE FINISHED GRADE (MUD LINE) AND PROJECT 2 INCHES FROM THE FINISHED WALL.
4. IF ANY OF THE ABOVE MENTIONED CLEARANCES CANNOT BE MET THE DETAILS SHOULD BE COORDINATED WITH A REPRESENTATIVE OF THE COMPANY.

5 DETAIL - GAS SERVICE INSTALLATION REQUIREMENTS
NTS



3 DETAIL - GAS CONNECTION TO EQUIPMENT
NTS

4 DETAIL - NOT USED
NTS



6 DETAIL - EXTERIOR WALL VERTICAL PIPE SUPPORT
NTS

7 DETAIL - NOT USED
NTS

STATE OF LOUISIANA
HENRY EYRE, III
REG. NO. 33333
DISTRICT
PROFESSIONAL
ENGINEER
CIVIL ENGINEERING

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kern architects

St. Landry Bank
EUNICE RENOVATION
101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 02/16/2026

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P3.3

EYRE ENGINEERING
PRINTED: 2.16.2026

ABBREVIATIONS

@	AT
A/C	AIR CONDITIONING
AFCI	ARCH FAULT CIRCUIT INTERRUPTER
AMP	AMPS/AMPERAGE
ABV CLG	ABOVE CEILING
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECT(URAL)
ATS	AUTOMATIC TRANSFER SWITCH
BD	BOARD
BKBD	BACKBOARD
BLDG	BUILDING
CKT	CIRCUIT
CLG	CEILING
COND	CONDUCTOR
CB	CIRCUIT BREAKER
CTV	CABLE TELEVISION
CU	COPPER
CWP	COLD WATER PIPE
DIST	DISTRIBUTION
DPDT	DOUBLE POLE - DOUBLE THROW
DPST	DOUBLE POLE - SINGLE THROW
(E)	EXISTING
EA	EACH
EC	EMPTY CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
F	FUSE, FUSIBLE
FL	FLOOR
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FTL	FEED-THROUGH LUGS
G	GROUNDING ELECTRODE CONDUCTOR, EQUIPMENT GROUNDING CONDUCTOR
GF, GFI, GFCI	GROUND FAULT CURRENT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HP	HORSEPOWER
HVAC	HEATING/VENTILATION/AIR CONDITIONING
IMC	INTERMEDIATE METAL CONDUIT
J-BOX, JB	JUNCTION BOX
kCMIL, KCM	KILO CIRCULAR MILS
KVA	KILOVOLTAMPERES
KW	KILOWATT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGT, LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
N-1	NEMA-1
N-3R	NEMA-3R
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NF	NON-FUSED
NTS	NOT TO SCALE
P	POLE
PH OR ∅	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
R	RACEWAY
RGS	RIGID GALVANIZED STEEL
RTG	RATING
SCH	SCHEDULE
SFB	SUB-FEED BREAKER
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE - DOUBLE THROW
SPST	SINGLE POLE - SINGLE THROW
SS	SPECIAL SYSTEMS
SW	SWITCH
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE/VOLTS
VA	VOLT-AMPERE
W	WIRE
W/	WITH
WP	WEATHER-PROTECTED
XFMR	TRANSFORMER

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	LUMINAIRE - SURFACE MOUNTED OR SUSPENDED
	LUMINAIRE - RECESSED IN CEILING
	LUMINAIRE - WALL OR BRACKET
	LUMINAIRE - RECESSED IN CEILING, SURFACE MOUNTED, OR SUSPENDED
	LUMINAIRE - EMERGENCY
	EXIT LIGHT CEILING MTD. ARROWS AS NOTED. SHADING DENOTES SIDE WITH FACE.
	EXIT LIGHT WALL MTD. ARROWS AS NOTED. SHADING DENOTES SIDE WITH FACE.
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS.
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS AND EXIT SIGN.
# FX,a	"X" DENOTES LUMINAIRE TYPE PER SCHEDULE; "a" DENOTES SWITCH CONTROL (TYP. FOR ALL LUMINAIRES). NUMBER INDICATES BRANCH CIRCUIT. PROVIDE WIRING AS NECESSARY.
S_{OS}	SWITCH WITH OCCUPANCY SENSOR, WALL MOUNT AT 48" UNLESS NOTED.
S_D	DIMMER SWITCH AT 48" UNLESS NOTED. DIMMER SHALL BE COMPATIBLE WITH FIXTURE(S) CONTROLLED.
S_2	TOGGLE SWITCH, DOUBLE POLE - SINGLE THROW.
S_3	TOGGLE SWITCH, THREE-WAY AT 48" UNLESS NOTED.
S_4	TOGGLE SWITCH, FOUR-WAY AT 48" UNLESS NOTED.
S_M	MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD ELEMENT
S_K	TOGGLE SWITCH, KEY OPERATOR AT 48" UNLESS NOTED.
S_a	TOGGLE SWITCH AT 48" UNLESS NOTED, SUBSCRIPT INDICATES DEVICE CONTROLLED.
O	OCCUPANCY SENSOR, CEILING MOUNT
P	PHOTOELECTRIC CONTROL
#	DUPLEX RECEPTACLE (20A, 125V, 3W, GROUNDING TYPE) AT 18" UNLESS NOTED. NUMBER INDICATES BRANCH CIRCUIT. PROVIDE WIRING AS NECESSARY.
	SAME AS : BUT WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
WP	SAME AS : BUT WEATHER PROTECTED WHILE-IN-USE.
EWC	SAME AS : BUT CONCEALED BEHIND ELECTRIC WATER COOLER
USB	DUPLEX RECEPTACLE (20A, 125V, 3W, GROUNDING TYPE) WITH TWO (2) TYPE A USB PORTS AT 18" UNLESS NOTED.
	QUADRUPLEX RECEPTACLE AT 18" UNLESS NOTED. -(2 DUPLEX RECPT. WITH SINGLE COVER PLATE)
	SPECIALTY RECEPTACLE AT 18" UNLESS NOTED, REFER TO NOTE FOR NEMA DESIGNATION.
TV	DUPLEX RECEPTACLE FOR TV - REFER TO ELEVATIONS FOR MOUNTING HEIGHT
P	PULL BOX
C	CONTACTOR
J	JUNCTION BOX
J	LIGHTING JUNCTION BOX. CONTRACTOR SHALL PROVIDE WIRING AND MAKE CONNECTIONS NECESSARY TO CONNECT EACH FIXTURE IN ROOM AREA.
	DATA OUTLET AT 18" UNLESS NOTED - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG.
4	DATA OUTLET AT 18" UNLESS NOTED - PROVIDE RECESSED OUTLET BOX WITH QUAD RING AND 1"R STUBBED UP ABOVE ACCESSIBLE CLG.
AV	AV OUTLET AT MOUNTING HEIGHT PER ELEVATIONS - PROVIDE RECESSED OUTLET BOX WITH QUAD RINGAND 1"R STUBBED UP ABOVE ACCESSIBLE CLG.
	DATA OUTLET CEILING MOUNTED - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG.
AC	ACCESS CONTROL - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG.
DC	DOOR CONTACT - PROVIDE RECESSED OUTLET BOX W/ 3/4"R STUBBED UP ABOVE ACCESSIBLE CLG.
	CAMERA - PROVIDE RECESSED OUTLET BOX W/ 1"R STUBBED UP ABOVE ACCESSIBLE CLG.
	PANELBOARD/DISTRIBUTION BOARD SURFACE MOUNTED OR RECESSED IN WALL.
M	POWER METER
	DISCONNECT OR SAFETY SWITCH
	MOTOR
	NUMBER OF TICK MARKS INDICATES NUMBER OF CURRENT CARRYING CONDUCTORS (NOT INCLUDING EGC)
	RACEWAY TURN DOWN
	RACEWAY TURN UP
HB1:2	RACEWAY-HOMERUN CIRCUIT "2" TO PANEL "HB1" (ARROWS DENOTECIRCUITS)
	RACEWAY ROUTED CONCEALED OVERHEAD OR IN WALLS
	RACEWAY ROUTED EXPOSED
	RACEWAY ROUTED IN OR UNDER FLOOR SLAB OR UNDERGROUND
	CIRCUIT CONTINUATION.
	CALL OUT TAG (NUMBER OF PLAN REFERENCED ON TOP AND NUMBER OF SHEET REFERENCED ON BOTTOM)
	REVISION NUMBER
30A/15AF/3P,4W 250V/N-3R	DENOTES 30A SAFETY SWITCH/15A FUSE(S)/3 POLES,4 WIRE/250V RATED/NEMA-3R RATED ENCLOSURE.
AC	NEAR ANY ELECTRICAL DEVICE DENOTES ABOVE COUNTER TOP.
BC	NEAR ANY ELECTRICAL DEVICE DENOTES BELOW COUNTER TOP.
WP	NEAR ANY ELECTRICAL DEVICE DENOTES WEATHER-PROTECTED.
42", 36"	NEAR ANY ELECTRICAL DEVICE DENOTES WALL MOUNTING HEIGHT. MOUNTING HEIGHT IS TO BE CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR GRADE.

SHEET INDEX

SHEET NO.	SHEET TITLE	2026-02-16 100% CD SET			
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E0.1	LUMINAIRE SCHEDULE	●			
E0.2	GENERAL ELECTRICAL NOTES	●			
E0.3	SPECIFICATIONS	●			
E1.0	ELECTRICAL SITE	●			
E1.1	FIRST FLOOR DEMO	●			
E1.2	SECOND FLOOR DEMO	●			
E2.0	FIRST FLOOR LIGHTING	●			
E3.0	FIRST FLOOR POWER & SS	●			
E3.1	SECOND FLOOR ELECTRICAL	●			
E6.0	PANEL SCHEDULES	●			
E7.0	POWER RISER DIAGRAM	●			

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02-16-26

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St. Laundry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
SCHEDULES AND ABBREVIATIONS

SHEET NUMBER:
E0.0

EDS, Inc 25080
ELECTRICAL DESIGN SOLUTIONS
(844) EDS-1990 www.ewithd.com

LUMINAIRE SCHEDULE
(FINISH COLORS TO BE DETERMINED BY ARCHITECT)

LABEL	MANUFACTURER	CATALOG NUMBER	MOUNTING	NOMINAL LUMEN OUTPUT	NOMINAL CCT	CRI	INPUT VOLTS / WATTS	DESCRIPTION
F1AE	METALUX	22FPSL2SCT3-EL7W / DF-22W-U	RECESSED	>=2400	4000K	>=80	120V <= 22W	2' X 2', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES, INTEGRAL EMERGENCY BATTERY PACK WITH REMOTE TEST SWITCH, AND DRYWALL FRAME KIT.
F1B	METALUX	22FPSL2SCT3 / RMK2-22-W	RECESSED	>=3500	4000K	>=80	120V <= 31W	2' X 2', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES AND 0-10V DIMMING.
F2A	METALUX	24FPSL2SCT3 / DF-24W-U	RECESSED	>=3100	4000K	>=80	120V <= 28W	2' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES AND DRYWALL FRAME KIT.
F2AE	METALUX	24FPSL2SCT3-EL7W / DF-24W-U	RECESSED	>=3100	4000K	>=80	120V <= 28W	2' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES, INTEGRAL EMERGENCY BATTERY PACK WITH REMOTE TEST SWITCH, AND DRYWALL FRAME KIT.
F2B	METALUX	24FPSL2SCT3 / DF-24W-U	RECESSED	>=4600	4000K	>=80	120V <= 41W	2' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES AND DRYWALL FRAME KIT.
F2BE	METALUX	24FPSL2SCT3-EL7W / DF-24W-U	RECESSED	>=4600	4000K	>=80	120V <= 41W	2' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES, INTEGRAL EMERGENCY BATTERY PACK WITH REMOTE TEST SWITCH, AND DRYWALL FRAME KIT.
F3	METALUX	4SLSTPSLC-UNV	RECESSED	>=3600	4000K	>=80	120V <= 30W	4'-0, LENSED, LED STRIP WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES.
F3E	METALUX	4SLSTPSLC-UNV-BSL6	RECESSED	>=3600	4000K	>=80	120V <= 30W	4'-0", LENSED, LED STRIP WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES ANDINTEGRAL EMERGENCY BATTERY PACK AND TEST SWITCH.
F4	HALO	HC625D010-HM60525840-61WDC	RECESSED	>=2500	4000K	>=80	120V <= 28W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH 65° BEAM SPREAD AND 0-10V DIMMING.
F4E	HALO	HC625D010IEM14-HM60525840-61WDCIEM	RECESSED	>=2500	4000K	>=80	120V <= 28W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH INTEGRAL EMERGENCY BATTERY/TEST SWITCH, 65° BEAM SPREAD, AND 0-10V DIMMING.
F5A	HALO	HC605D010-HM60525840-61NDC	RECESSED	>=500	4000K	>=80	120V <= 7W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH 55° BEAM SPREAD; WET LOCATION LISTED.
F5B	HALO	HC607D010-HM60525840-61NDC	RECESSED	>=700	4000K	>=80	120V <= 8W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH 55° BEAM SPREAD; WET LOCATION LISTED.
F5BE	HALO	HC607D010IEM7-HM60525840-61NDCIEM	RECESSED	>=700	4000K	>=80	120V <= 8W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH INTEGRAL EMERGENCY BATTERY PACK/TEST SWITCH AND 55° BEAM SPREAD; WET LOCATION LISTED.
F5C	HALO	HC635D010-HM63040840-61WDC	RECESSED	>=3500	4000K	>=80	120V <= 35W	6" DIAMETER, ROUND, LED DOWNLIGHT WITH 65° BEAM SPREAD; WET LOCATION LISTED.
F6	TRACE-LITE	SML-303N-065-UNV-7-TX-FT-**	WALL @ 9'-6" AFF UNO	>=3100	4000K	>=70	120V <= 65W	FULL CUTOFF, LED WALL PACK WITH FORWARD THROW OPTIC; WET LOCATION LISTED.
F7	NO USED							
F8	ACOLYTE	NLAD-5.5RGB40AD-B / NLADCHANNELR	RECESSED	>=100 PER FOOT	RGBW	>=80	120V <= 6W PER FOOT	FLEXIBLE, LED, RGBW, LUMINAIRE WITH RECESSED CHANNEL; WET LOCATION LISTED. PROVIDE QUANTITY OF LUMINAIRE, CHANNELS, DRIVERS, ETC AS REQUIRED TO ILLUMINATE ENTIRE LENGTH OF LUMINAIRE AS PER PLANS. PROVIDE COMPATIBILE DMX DECODER, SINGLE ZONE WALL CONTROL STATION, AND REMOTE CONTROLLER. VERIFY LOCATION OF WALL CONTROL STATION WITH ARCHITECT/OWNER.
F9	METALUX	14FPSL1SCT3 / FPXSURF14	RECESSED	>=4100	4000K	>=80	120V <= 37W	1' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES AND SURFACE MOUNT KIT.
F9E	METALUX	14FPSL1SCT3-EL7W / FPXSURF14	RECESSED	>=4100	4000K	>=80	120V <= 37W	1' X 4', LENSED, LED FLAT PANEL WITH SELECTABLE LUMENS AND CCT SETTINGS SET PER SCHEDULED VALUES, INTEGRAL EMERGENCY BATTERY PACK WITH REMOTE TEST SWITCH, AND SURFACE MOUNT KIT.
X1	SURE-LITES	EUX7R	PER PLANS	-	-	-	120V <= 5W	SELF-POWERED, EDGE LIT, LED EXIT SIGN WITH NICKEL CADMIUM BATTERY, MIRRORED BACKGROUND, AND RED LETTERS. PROVIDE FACES AND ARROWS AS PER PLANS.
X2	SURE-LITES	APX7RG	PER PLANS	-	-	-	120V <= 5W	SELF-POWERED, LED EXIT SIGN WITH NICKEL CADMIUM BATTERY, WHITE BACKGROUND, AND RED LETTERS. PROVIDE FACES AND ARROWS AS PER PLANS.
X3	SURE-LITES	APC7RSQ	PER PLANS	-	-	-	120V <= 5W	SELF-POWERED, COMBINATION LED EMERGENCY LUMINAIRE / EXIT SIGN WITH NICKEL CADMIUM BATTERY, DUAL ADJUSTABLE HEADS, WHITE BACKGROUND, AND RED LETTERS. PROVIDE FACES AND ARROWS AS PER PLANS.
Y1	SURE-LITES	CU2-LED	WALL @ 7'-6" AFF UNO	-	-	-	120V <= 5W	SELF-POWERED, LED EMERGENCY LUMINAIRE WITH NICKEL CADMIUM BATTERY.

SPECIALITY LUMINAIRE SCHEDULE
(FOR REFERENCE ONLY. REFER TO INTERIOR DESIGNER / ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION)

LABEL	MANUFACTURER	CATALOG NUMBER	MOUNTING	NOMINAL LUMEN OUTPUT	NOMINAL CCT	CRI	INPUT VOLTS / WATTS	DESCRIPTION
DL-1	FOCAL POINT	FLCY3N-RD-7H-1300DN-_40-1C-UNV-PS-L11-SM-FL2-CD-PS	SURFACE	>=1200	4000K	>=80	120V <= 15W	3.5" DIAMETER, 7" TALL, SURFACE MOUNTED, LED CYLINDER WITH 45° BEAM SPREAD AND 0-10V DIMMING.
DL-2	FOCAL POINT	FLCY3N-RD-7H-1500DN-_40-1C-UNV-SC-PS-L11-S18-PS-DNS-FL2-CD-PS	PENDANT @ 10'-0" AFF UNO	>=1400	4000K	>=80	120V <= 17W	3.5" DIAMETER, 7" TALL, PENDANT MOUNTED, LED CYLINDER WITH 45° BEAM SPREAD AND 0-10V DIMMING.
DL-3	FOCAL POINT	ASM1S-RL-8-500LF-40K-1C-UNV-LD1-J48_-SDG-*FTOIN	SUSPENDED @ 10'-0" AFF UNO	>=500 PER FOOT	4000K	>=80	120V <= 6W PER FOOT	2" DIAMETER, 8" TALL, LINEAR, LENSED, LED LUMINAIRE WITH 0-10 DIMMING AND CABLE MOUNTING. PROVIDE CONTINUOUS RUN LENGTH OF LUMINAIRE AS SHOW PER PLANS.
DL-3E	FOCAL POINT	ASM1S-RL-8-500LF-40K-1C-UNV-LD1-J48_-_EM-SDG-4FTOIN	SUSPENDED @ 10'-0" AFF UNO	>=2000	4000K	>=80	120V <= 24W	4'-0" LONG, 2" DIAMETER, 8" TALL, LINEAR, LENSED, LED LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK/TEST SWITCH, 0-10V DIMMING, AND CABLE MOUNTING. PROVIDE LUMINAIRE INTEGRAL TO CONTINUOUS RUN OF TYPE DL-3 LUMINAIRE WHERE SHOWN PER PLANS.
DL-4	FOCAL POINT	FSM2LS-FL-500LF-40K-1C-UNV-LD1-SM-WH-*FTOIN	SURFACE	>=500 PER FOOT	4000K	>=80	120V <= 4W PER FOOT	2.5" DIAMETER, 4.5" TALL, LINEAR, LENSED, LED LUMINAIRE WITH 0-10V DIMMING. PROVIDE CONTINUOUS RUN LENGTH OF LUMINAIRE AS SHOW PER PLANS.
DL-4E	FOCAL POINT	FSM2LS-FL-500LF-40K-1C-UNV-LD1-SM-_EM-WH-*FTOIN	SURFACE	>=2000	4000K	>=80	120V <= 16W	4'-0" LONG, 2.5" DIAMETER, 4" TALL, LINEAR, LENSED, LED LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK/TEST SWITCH AND 0-10V DIMMING. PROVIDE LUMINAIRE INTEGRAL TO CONTINUOUS RUN OF TYPE DL-4 LUMINAIRE WHERE SHOWN PER PLANS.
DL-5	FOCAL POINT	FSDEP-4-FL-7000DN-0UP-1C-UNV-LD1-SM-TS	SURFACE	>=7000	4000K	>=80	120V <= 62W	48" DIAMETER, 3.7" TALL, SURFACE MOUNTED, LED DRUM LUMINAIRE.
DL-5E	FOCAL POINT	FSDEP-4-FL-7000DN-0UP-1C-UNV-LD1-SM-EM-TS	SURFACE	>=7000	4000K	>=80	120V <= 62W	48" DIAMETER, 3.7" TALL, SURFACE MOUNTED, LED DRUM LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK/TEST SWITCH AND 0-10V DIMMING.
DL-6	PRENTALUX	PRLX-307-NB-120-CLER-GRAY-TFGRAY-DC-BK	PENDANT @ 6'-6" AFF UNO	>=800	4000K	>=80	120V <= 7W	8" DIAMETER, 12" TALL, LED PENDANT LUMINAIRE WITH DIMMABLE LED LAMP EQUIVALENT TO SATCO #S28850.
DL-7	ACOLYTE	RB-90-SWS220-1.540 / AS1	SURFACE	>=200 PER FOOT	4000K	>=80	120V <= 2W PER FOOT	WHITE, LED TAPE LIGHT WITH DIMMING AND SURFACE MOUNT CHANNEL. PROVIDE QUANTITY OF LUMINAIRE, CHANNELS, DRIVERS, ETC AS REQUIRED TO ILLUMINATE ENTIRE LENGTH OF LUMINAIRE AS INDICATED ON PLANS.
DL-8	ARON	EDGET1-**-RTB-2'x4'-300-B1-40K8-UNV-DM-W	RECESSED	>=3600	4000K	>=80	120V <= 35W	2" WIDE, LENSED, EDGE LUMINAIRE IN A 2' X 4' PATTERN. COORDINATE CEILING GRID TYPE WITH ARCHITECT.
DL-9	ARON	EDGET1-**-RTB-2'x8'-300-B1-40K8-UNV-DM-W	RECESSED	>=6000	4000K	>=80	120V <= 58W	2" WIDE, LENSED, EDGE LUMINAIRE IN A 2' X 8' PATTERN WITH 0-10V DIMMING. COORDINATE CEILING GRID TYPE WITH ARCHITECT.

STATE OF LOUISIANA
CODY J. LeBLANC
License No. 41073
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
02-16-26

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kern architects

St. Laundry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
LUMINAIRE SCHEDULE

SHEET NUMBER:
E0.1

EDS, Inc
25080
ELECTRICAL DESIGN SOLUTIONS
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GENERAL NOTES:

GENERAL

1. THE WORD "PROVIDE", RELATIVE TO ELECTRICAL WORK, SHALL HEREAFTER BE INTERPRETED AS "FURNISH, INSTALL AND CONNECT".

2. THE "GENERAL CONDITIONS OF THE CONTRACT" CURRENT EDITION PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.

3. UNLESS NOTED OTHERWISE, ALL EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND A MANUFACTURER'S DOCUMENT SHALL ACCOMPANY EACH MAJOR COMPONENT. PROVIDE EQUIPMENT MANUFACTURER'S LETTER OF WARRANTY.

4. CONTRACTOR SHALL PROVIDE COMPLETE AND WORKABLE SYSTEMS. ELECTRICAL DRAWINGS SERVE AS WORKING DRAWINGS FOR GENERAL LAYOUT OF VARIOUS ITEMS OF EQUIPMENT; HOWEVER, LAYOUT OF THE EQUIPMENT, ACCESSORIES, SPECIALTIES, DEVICES, AND OTHER TRADES ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. ELECTRICAL DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM.

5. THE WORK COVERED BY THE CONSTRUCTION DOCUMENTS AND THE PROJECT SPECIFICATIONS CONSISTS OF FURNISHING THE LABOR, MATERIAL, AND EQUIPMENT IN PERFORMING THE OPERATIONS NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS. ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH IS BELONGING TO OR NECESSARY FOR THE SATISFACTORY COMPLETION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED. THE WORK COVERED UNDER THESE DOCUMENTS AND SPECIFICATIONS SHALL BE COORDINATED WITH THE REQUIREMENTS OF THE OTHER DIVISIONS AND WITH THE DRAWINGS FOR THE ENTIRE PROJECT. THE WORK SHALL BE ACCOMPLISHED ON SUCH A SCHEDULE AND IN SUCH A MANNER AS TO NOT DELAY OR INTERFERE WITH OTHER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE ELECTRICAL EQUIPMENT AND MATERIALS AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS. REFER TO THE PROJECT SPECIFICATIONS FOR SUBMITTAL AND SHOP DRAWING REQUIREMENTS.

6. WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE CURRENT NATIONAL ELECTRIC CODE AND STATE AND LOCAL CODES THAT APPLY.

7. THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES, AND PAY FEES AS REQUIRED TO PERFORM THE PROJECT ELECTRICAL WORK.

8. BIDDERS SHALL BE REQUIRED TO VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS SURROUNDING THE PROJECT PRIOR TO BIDDING.

9. THE CONTRACTOR SHALL TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION.

10. THE CONTRACTOR SHALL BE A LICENSED ELECTRICIAN OF THE STATE IN WHICH THE WORK IS TO BE PERFORMED.

11. NO INTERRUPTION OF THE BUILDING FUNCTIONS OR ELECTRIC SERVICE SHALL BE PERMITTED WITHOUT APPROVAL OF THE TENANT.

12. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS CAUSED BY THE CONTRACTOR AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT AND COMPONENTS.

13. ELECTRICAL EQUIPMENT SHALL BE SPECIFICATION GRADE, UNLESS NOTED OTHERWISE.

14. ELECTRICAL ROOM/AREA EQUIPMENT LAYOUT IS CONCEPTUAL AND IS BASED ON DIMENSIONS OF INDUSTRY STANDARD EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE EQUIPMENT LAYOUT PER NEC ARTICLE 110 AND SIZED TO MEET THE ROOM DIMENSIONS. ELECTRICAL CONTRACTOR SHALL ADJUST THE EQUIPMENT LAYOUT IN THE FIELD AS NEEDED PER THE SUCCESSFUL MANUFACTURER'S EQUIPMENT DIMENSIONS (TYPICAL FOR ALL ELECTRICAL EQUIPMENT ROOMS). PRIOR TO ROUGH-IN AND RACEWAY INSTALLATION, ELECTRICAL CONTRACTOR SHALL SUBMIT DIMENSIONED LAYOUT OF EQUIPMENT ROOMS AND ELECTRICAL ROOMS UTILIZING DIMENSIONS OF EQUIPMENT TO BE INSTALLED. SUBMIT FOR REVIEW PRIOR TO ANY FIELD WORK.

15. DATA PRESENTED ON THESE DRAWINGS ARE AS SURVEYS AND PLANNING CAN DETERMINE, BUT ABSOLUTE ACCURACY IS NOT GUARANTEED. FIELD VERIFICATION OF THE PLANS IS RESPONSIBILITY OF THE CONTRACTOR SINCE FINAL DISTANCES; LOCATIONS AND HEIGHTS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS IN AREAS TO BE RENOVATED PRIOR TO BID IN ORDER TO PROVIDE AN ACCURATE BID AND BE AWARE OF CONSTRUCTION METHODS NEEDED TO PROVIDE THE FINISHED PRODUCT AS SHOWN ON THE PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING VIA AN R.F.I. FOR A DECISION TO RESOLVE CONFLICTS PRIOR TO BID.

16. EQUIPMENT, FINISHES, AND ACCESSORIES TO BE PROVIDED SHALL COMPLY WITH ANSI A117.1, AMERICANS WITH DISABILITIES ACT AND OTHER SPECIFIC STANDARDS, CODES AND REGULATIONS ESTABLISHED BY LOCAL AUTHORITIES HAVING JURISDICTION.

17. CUTTING AND PATCHING: THE CONTRACTOR SHALL PERFORM WHERE REQUIRED TO FACILITATE CONSTRUCTION. THE CONTRACTOR SHALL PATCH AND REPAIR SUCH OPENINGS TO THE ORIGINAL STATE. HOWEVER, STRUCTURAL ELEMENTS SHALL NOT BE CUT WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR HIS REPRESENTATIVE.

18. THE CONTRACTOR SHALL PROTECT HIS WORK DONE UNDER THIS CONTRACT FROM INJURY DURING CONSTRUCTION AND PROTECT HIS EQUIPMENT FROM DAMAGE.

19. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY COMPANY OF NEW WORK FOR THIS PROJECT. THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC UTILITY COMPANY TO PROVIDE SERVICE AND EQUIPMENT PER UTILITIES REQUIREMENTS. INCLUDE COSTS IN THE BASE BID.

20. ELECTRICAL EQUIPMENT AND APPURTENANCES UNDER THIS CONTRACT SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:

    A.) UNDERWRITER'S LABORATORIES, INC. - U.L.

    B.) NATIONAL FIRE PROTECTION ASSOCIATION – NFPA

    C.) NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. - NEMA

    D.) NATIONAL ELECTRICAL CODE – NEC

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS.

22. THE CONTRACTOR SHALL FURNISH A WRITTEN, SIGNED WARRANTY STATING:

    A.) THAT WORK EXECUTED UNDER THIS CONTRACT SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DAY OF FINAL ACCEPTANCE.

    B.) THAT THE ELECTRICAL CONTRACTOR WILL AT HIS OWN EXPENSE REPAIR OR REPLACE DEFECTIVE WORK AND MATERIALS AND OTHER WORK DAMAGED THEREBY, WHICH BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE-WARRANTY.

COORDINATION WITH OTHER TRADES

1. THE CONTRACTOR IS REFERRED TO ARCHITECTURAL, CIVIL, MECHANICAL, AND PLUMBING PLANS AND SPECIFICATIONS (AS APPLICABLE) FOR ADDITIONAL INFORMATION AND ELECTRICAL WORK THAT MAY NOT BE INDICATED ON THESE DRAWINGS.

2. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS AND GENERAL ARRANGEMENTS ONLY. ADJUST ROUTING AND LOCATIONS FOR FIELD CONDITIONS, COORDINATE WORK AND INSTALLATION WITH OTHER TRADES. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND MOUNTING HEIGHTS.

3. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL, MECHANICAL AND PLUMBING CONSTRUCTION. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH WORK OF OTHER CONTRACTORS, SUCH WORK SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.

4. COORDINATE WITH MECHANICAL, PLUMBING AND GENERAL CONDITIONS FOR FINAL LOCATIONS OF HVAC EQUIPMENT, WATER HEATERS, EXHAUST FANS, CONTROL DEVICES, AND EQUIPMENT BY ANY OTHER TRADES. THE CONTRACTOR SHALL REVIEW THE APPROVED MECHANICAL AND PLUMBING SHOP DRAWINGS TO DETERMINE AND VERIFY ELECTRICAL ROUGH-IN REQUIREMENTS, POINT OF CONNECTION(S), AND EQUIPMENT AMPERAGE/VOLTAGE/PHASE. WHEN THE EQUIPMENT HAS BEEN DELIVERED TO THE PROJECT SITE, THE CONTRACTOR SHALL VERIFY WITH THE EQUIPMENT NAMEPLATE FOR THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. FUSE SIZE ADJUSTMENTS MAY BE REQUIRED, AND THE FUSE TYPE SHALL BE DUAL ELEMENT-TIME DELAY, CLASS RK-5. PROVIDE CONDUCTORS, CONDUIT, CONNECTIONS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

5. FOR EACH MECHANICAL OR PLUMBING DEVICE THAT REQUIRES ELECTRICAL POWER CONNECTION, RESPONSIBILITY FOR COORDINATION BETWEEN THE MECHANICAL OR PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS AND THE ELECTRICAL SERVICES REMAINS WITH ALL INVOLVED CONTRACTORS (ELECTRICAL AND MECHANICAL, PLUMBING, ETC.). COORDINATE AND VERIFY IN FIELD PRIOR TO ROUGH-IN AND EQUIPMENT ORDERING. PROVIDE AND ADJUST ELECTRICAL SERVICES AS REQUIRED. CONTRACTOR SHALL COORDINATE IN FIELD, VERIFY, AND PROVIDE THE ELECTRICAL SERVICES AND RATINGS OF MECHANICAL OR PLUMBING EQUIPMENT AS INDICATED IN THE APPROVED MECHANICAL OR PLUMBING SHOP DRAWINGS AND AS SUCH EQUIPMENT ARRIVES AT THE JOB SITE. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICES, CIRCUIT BREAKERS, CONDUIT, CONDUCTORS, CONNECTIONS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL INCLUDE SUCH COSTS IN THE BASE BID.

6. CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH OWNER AND OTHER TRADES.

7. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING, PIPING, AND DUCTWORK ADJACENT TO ELECTRICAL PANELS; ELECTRICAL PANELS SHALL HAVE CLEARANCE FROM FLOOR TO CEILING STRUCTURE. NO MECHANICAL OR PLUMBING DEVICES SHALL CROSS OR PENETRATE PANEL CLEARANCE SPACE.

8. WHEN ELECTRICALLY DRIVEN EQUIPMENT FURNISHED UNDER THIS CONTRACT MATERIALLY DIFFERS FROM THE DESIGN, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE CONDUCTORS, DISCONNECT DEVICES, CIRCUIT BREAKERS, FUSES, CONTROLLERS, OVERLOAD PROTECTION, ETC. TO ACCOMMODATE THE EQUIPMENT ACTUALLY INSTALLED.

9. PROVIDE CONNECTION OF ELECTRICAL EQUIPMENT MENTIONED IN THIS SECTION OR NOTED ON THE DRAWINGS, WHETHER FURNISHED BY THE CONTRACTOR OR BY OTHERS. REFER TO CONSTRUCTION DOCUMENTS OF OTHER TRADES FOR THIS PROJECT.

DEMOLITION

1. NECESSARY MODIFICATIONS AND ADJUSTMENTS TO NEW ELECTRICAL ITEMS AND EQUIPMENT SHALL BE MADE AS MAY BE REQUIRED BY THESE ADDITIONS. CAREFUL INSPECTION OF THE PLANS AND SITE IS REQUIRED, AS THE PLANS DO NOT INDICATE ALL SUCH ELECTRICAL ITEMS AND EQUIPMENT.

GROUNDING

1. ALL PROJECT GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.

2. PROVIDE A COMPLETE GROUNDING SYSTEM, GROUND CONDUCTOR, GROUND ELECTRODES, GROUND BUS, AND GROUND ROD TO EFFECTIVELY PROVIDE SERVICE GROUND. GROUND PANELS, WIREWAYS, CONDUITS, LIGHT FIXTURES, RECEPTACLES, AND EQUIPMENT IN ACCORDANCE WITH THE NEC. VERIFY GROUNDING MEANS.

3. GROUND CONDUCTORS SHALL BE PROVIDED IN FEEDERS AND BRANCH CIRCUIT RACEWAYS. EQUIPMENT GROUND WIRES SHALL BE COPPER AND SIZED AS PER NEC TABLE 250-95.

RACEWAYS, BOXES, AND CONDUCTORS

1. WIRING INCLUDING LOW VOLTAGE SHALL BE IN CONDUIT WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

2. PROVIDE PULL BUSHINGS ON COMMUNICATIONS RACEWAYS.

3. USE ONLY APPROVED LUBRICANT FOR WIRE PULLING PURPOSES.

4. WHERE RACEWAYS AND CABLE PASS THROUGH CONCRETE OR CONCRETE BLOCK WALLS, PROVIDE CORE DRILLING AS REQUIRED.

5. ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL APPARATUSES SHALL BE IDENTIFIED. IN UNFINISHED AREAS PAINT STENCIL SHALL BE ACCEPTABLE, FOR OTHER AREAS AN ENGRAVED PLATE SHALL BE USED TO IDENTIFY ASSOCIATED EQUIPMENT.

6. NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE, OR BRICK WALLS SHALL OCCUR WITHIN A SINGLE COURSE. A MINIMUM AMOUNT OF BLOCK, TILE, OR BRICK SHALL BE CUT.

7. CONTRACTOR SHALL RUN RACEWAY CONCEALED WHEN POSSIBLE, CONCEALED RACEWAYS SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE WITH LONG BENDS. EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO THE LINES OF THE BUILDING. RACEWAY SHALL BE SUPPORTED FROM THE BUILDING SUPPORTING MEMBERS; ABOVE SUSPENDED CEILINGS. SUPPORT FROM MECHANICAL SYSTEM PIPING, DUCTS, AND OTHER TRADES ARE NOT ACCEPTABLE.

8. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONNECTION OF MOTORS AND FOR OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT, VIBRATION, AND ALSO WHERE SUBJECT TO ANY OF THE FOLLOWING: EXTERIOR, MOISTURE, CORROSIVE ATMOSPHERE.

9. SHEET METAL BOXES SHALL BE STANDARD TYPE WITH KNOCKOUTS, MADE OF HOT DIPPED GALVANIZED STEEL AS MANUFACTURED BY STEEL CITY, RACO, OR APPROVED EQUIVALENT.

10. CIRCUIT CONDUCTORS SHALL BE 2 #12 & 1 #12 EQUIPMENT GROUND, UNLESS NOTED OTHERWISE.

11. CONDUCTORS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. AVOID UNNECESSARY SPLICING.

12. NUMBER OF WIRES FOR EACH CIRCUIT MAY NOT BE INDICATED ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE WIRES NECESSARY FOR PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLANS OR NOT.

13. RACEWAYS SHALL BE 90 DEGREE WHERE PENETRATING FIRE OR SMOKE RATED WALLS SO THEY CAN BE PROPERLY FIRE TREATED AND CAULKED. PROVIDE MINIMUM 2-HOUR RATED CAULKING.

14. PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR CEILINGS SHALL BE FIRE SEALED WITH "CRC" RTV HIGH-TEMPERATURE SILICONE FOAM (OR APPROVED EQUIVALENT) TO MAINTAIN FIRE RATING. VERIFY SEALANT COMPATIBILITY WITH SUBSTRATE.

15. PATCH FLOOR PENETRATIONS WITHIN PROJECT AREA AS REQUIRED TO MAINTAIN 2-HOUR FLOOR SEPARATION.

16. SINGLE-PHASE BRANCH CIRCUITS, 120-VOLT LIGHTING, RECEPTACLES, AND MOTORS SHALL CONSIST OF PHASE, NEUTRAL, AND GROUND CONDUCTORS.

17. JUNCTION BOXES AND ELECTRICAL EQUIPMENT EXPOSED TO THE ELEMENTS SHALL BE WEATHERPROOF.

18. CONDUIT CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS ON BOTH SIDES OF EXPANSION JOINT.

PANELBOARDS

1. PANELBOARDS SHALL CONSIST OF COMPLETE DEAD FRONT ASSEMBLIES INCLUDING BACK CAN, BUS BAR, SHEET METAL CABINET, SWITCHING AND OVER CURRENT DEVICES, TRIMS, DOOR AND LOCK. PANELBOARDS SHALL BE SQUARE "D", G.E., SIEMENS OR APPROVED EQUIVALENT.

2. WHEN ORDERING PANELBOARDS, THE CONTRACTOR SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

3. THE CONTRACTOR SHALL INSTALL PANELS AND ELECTRICAL EQUIPMENT PER NEC ARTICLE 110 CLEARANCE REQUIREMENTS.

4. PROVIDE DEDICATED CIRCUIT(S) AND "LOCK OUT" BREAKER(S) FOR OUTLET(S) AT TELEPHONE BACKBOARD, AND DATA RACKS. PROVIDE "RED" COLOR CIRCUIT BREAKER.

5. CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELS. HOMERUNS OF SIMILAR SINGLE-PHASE CIRCUITS MAY BE COMBINED IN ANY ONE RACEWAY WITH A COMMON NEUTRAL. UNLESS NOTED OTHERWISE, ONLY THREE (3) SINGLE-PHASE CIRCUITS MAY BE COMBINED IN ANY ONE RACEWAY. ON COMPLETION OF THE SPACE, THE ELECTRICAL CONTRACTOR SHALL BALANCE THE PANEL PHASE LOADS TO WITHIN TEN PERCENT.

WIRING DEVICES

1. THE CONTRACTOR SHALL PROVIDE GFCI, WEATHERPROOF-WHILE-IN-USE RECEPTACLE(S) WITHIN 25 FEET OF ALL HVAC EQUIPMENT ON GROUNDS.

2. EXTERIOR RECEPTACLES EXPOSED TO THE ELEMENTS SHALL BE GFCI, WEATHERPROOF-WHILE-IN-USE RECEPTACLES.

3. PLATES FOR UNFINISHED AREAS SHALL BE SHEET STEEL OR CAST METAL.

4. PROVIDE ENGRAVED PLASTIC IDENTIFICATION PLATE FOR EACH PANELBOARD. INSTALL A TYPEWRITTEN DIRECTORY IN DOOR OF EACH PANEL. CIRCUIT DIRECTORIES SHALL BE NEATLY TYPED TO REFLECT INSTALLED CONDITIONS UNDER THIS CONTRACT. CIRCUITS SHALL BE NUMBERED ALTERNATELY (I.E. 1, 3, 5 AND 2, 4, 6 ETC).

5. SAFETY SWITCHES SHALL BE INSTALLED WHERE INDICATED ON PLANS OR WHERE OTHERWISE REQUIRED BY CODE ENFORCING AUTHORITIES. THEY SHALL BE INSTALLED WITH ADEQUATE HAND ACCESS TO AND CLEARANCE FOR OPERATION AND FUSE REPLACEMENT. EACH SWITCH SHALL HAVE ENGRAVED PLASTIC NAMEPLATES INSTALLED, IDENTIFYING THE EQUIPMENT IT IS SERVING.

6. RECEPTACLES MOUNTED IN FIRE OR SMOKE RATED WALLS SHALL BE SEPARATED AT A MINIMUM OF 25" APART.

7. EXHAUST FANS SHALL HAVE DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL DRAWINGS FOR INSTALLATION OF THERMOSTATS.

8. REMOTE POWERED EQUIPMENT ON ROOF OR GROUNDS SHALL BE PROVIDED BY CONTRACTOR WITH A NEMA 3R DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT (UNLESS NOTED OTHERWISE).

9. LOCATE OUTLETS AS INDICATED ON PLANS WITH MOUNTING HEIGHTS AS SHOWN. COORDINATE INSTALLATION WITH OTHER EQUIPMENT AND ARCHITECTURAL MILLWORK ELEVATIONS. SECURE OUTLETS TO STRUCTURE.

LIGHTING

1. LIGHT FIXTURE LOCATIONS SHALL BE ADJUSTED IN FIELD AS REQUIRED TO ACCOMMODATE DUCTWORK, PIPING AND OTHER TRADES. CONTRACTOR SHALL VERIFY APPROPRIATE LIGHTING LEVELS WHERE LIGHT FIXTURES ARE ADJUSTED FROM LOCATIONS SHOWN ON FLOOR PLAN.

2. SUPPORT OF LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LAY-IN LIGHT FIXTURES SHALL NOT BE SUPPORTED ENTIRELY BY CEILING GRID SYSTEM. THEY SHALL HAVE STEEL WIRE SUPPORT TIED TO THE STRUCTURE ABOVE FROM AT LEAST TWO POINTS ON THE FIXTURE.

3. PROVIDE A COMPLETE LIGHTING SYSTEM. PROVIDE FIXTURES, LAMPS, ACCESSORIES AND SUPPORT AS SPECIFIED AND SHOWN. CEILING GRID LAYOUTS ON PLANS ARE FOR CONVENIENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LIGHT FIXTURE LAYOUT WITH (AS APPLICABLE): ARCHITECT, REFLECTED CEILING PLANS, GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, FIRE ALARM CONTRACTOR, LOW-VOLTAGE CONTRACTOR(S) AND OWNER.

4. LIGHT FIXTURES SHALL BE FURNISHED AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ON THE LIGHTING PLANS OR APPROVED EQUIVALENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CEILING TYPES, CLEARANCES, MOUNTING HARDWARE, ETC., AND PROVIDE AS REQUIRED TO INSTALL THE LIGHT FIXTURES.

SUBMITTALS

1. PROVIDE COMPLETE SHOP DRAWINGS, RISER DIAGRAMS, AND SUBMITTALS. THE CONTRACTOR SHALL PURCHASE NO EQUIPMENT FOR THE SYSTEM SPECIFIED HEREIN UNTIL THE OWNER HAS REVIEWED THE PROJECT SHOP DRAWINGS AND SUBMITTALS IN THEIR ENTIRETY AND HAS RETURNED THEM TO THIS CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE ENTIRE INTENT AND FUNCTIONAL PERFORMANCE DETAILED IN THESE PLANS AND SPECIFICATIONS. REVIEWED SUBMITTALS SHALL ONLY ALLOW THE CONTRACTOR TO PROCEED WITH THE INSTALLATION AND SHALL NOT BE CONSTRUED TO MEAN THAT THIS CONTRACTOR HAS SATISFIED THE REQUIREMENTS OF SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THREE (3) COMPLETE SETS OF DOCUMENTATION WITHIN 30 CALENDAR DAYS AFTER AWARD OF PROJECT:

    EACH SUBMITTAL SHALL INCLUDE A COVER LETTER PROVIDING A LIST OF EACH VARIATION THAT THE SUBMITTAL MAY HAVE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IN ADDITION THIS CONTRACTOR SHALL PROVIDE SPECIFIC NOTATION ON EACH SHOP DRAWING, SAMPLE, CATALOG CUT, DATA SHEET, INSTALLATION MANUAL, ETC.

    SUBMITTED FOR REVIEW AND APPROVAL OF EACH SUCH VARIATION.

    SHOP DRAWINGS AND DIAGRAMS SHALL INCLUDE THE CONTRACTOR'S TITLE BLOCK, COMPLETE WITH DRAWING TITLE, CONTRACTOR'S NAME, ADDRESS, DATE INCLUDING REVISIONS, AND PREPARER'S AND REVIEWER'S INITIALS.

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PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
02-16-26

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kern architects

EUNICE RENOVATION

St. Laundry Bank

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EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
GENERAL ELECTRICAL NOTES

SHEET NUMBER:
E0.2

ELECTRICAL SPECIFICATIONS

GENERAL

1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE (NEC), 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND STATE AND CITY REGULATIONS AND ORDINANCES.
2. UNLESS INDICATED OTHERWISE, WORK INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR.
3. MATERIALS SHALL BE NEW AND APPROVED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) TO UNDERWRITERS LABORATORIES (UL) STANDARDS, EXCEPT AS INDICATED.
4. CONTRACTOR SHALL APPLY FOR PERMITS AND PAY INSPECTION FEES.
5. UNLESS APPROVED BY LOCAL INSPECTOR, NO WORK SHALL BE CONCEALED.
6. UPON COMPLETION, FURNISH CERTIFICATE OF APPROVAL FROM DIVISION OF REGULATORY INSPECTION AS APPLICABLE.
7. CUTTING SHALL BE DONE BY CONTRACTOR. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT PERMISSION OF THE ARCHITECT.
8. PATCH AND REFINISH ANY HOLES CUT. FINISH SHALL MATCH OTHER EXISTING FINISHES.
9. PATCH, FLASH, AND COMPLETELY WATERPROOF ANY HOLES CUT IN EXTERIOR WALLS. PROVIDE GROUTING AROUND RACEWAY PENETRATIONS THROUGH CONCRETE FLOORS EQUAL TO THE FIRE RATING OF THE FLOOR USING NON-SHRINKING WATERPROOF GROUT.
10. PATCH AND/OR REPAIR WALLS, CEILINGS, AND FLOORS WHERE EXISTING EQUIPMENT IS REMOVED. ANY DAMAGE TO FINISHED SURFACES SHALL BE REPAIRED BY CONTRACTOR AT HIS/HER OWN EXPENSE.
11. COORDINATE DEMOLITION OF EXISTING WORK WITH OTHER DISCIPLINES.
12. THE BIDDER SHALL VISIT THE SITE OF PROPOSED WORK SO THAT HE MAY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE CONTRACT. HE WILL BE ALLOWED NO ADDITIONAL COMPENSATION FOR FAILURE TO BE SO INFORMED.
13. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT FOR REVIEW DESCRIPTIVE LITERATURE OR SHOP DRAWINGS FOR WIRING DEVICES AND PLATES, CONDUCTORS AND WIRING, FUSES, SAFETY SWITCHES, LUMINAIRES, AND DISTRIBUTION EQUIPMENT.

DEMOLITION

1. REFER TO ARCHITECTURAL PACKAGE FOR THE EXTENT OF DEMOLITION.
2. SERVICES IN EXISTING BUILDINGS ARE TO BE KEPT IN OPERATION AT ALL TIMES, EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN TO DO OTHERWISE. BEFORE ANY SERVICES ARE INTERRUPTED, ARRANGEMENTS SHALL BE MADE WITH THE OWNER TO DO THIS WORK AT A TIME MOST CONVENIENT TO THE OCCUPANTS. THIS PROCEDURE MAY INVOLVE WORKING AT NIGHT, ON SATURDAY OR SUNDAY, WITH THE LENGTH OF THE INTERRUPTION AGREED UPON IN ADVANCE. ALLOWANCE SHALL BE MADE IN CONTRACTOR'S BID FOR THE COST OF ANY OVERTIME WORK IN THIS CONNECTION.
3. CONTRACTOR SHALL REMOVE EXISTING FIXTURES FROM AREAS AFFECTED BY NEW CONSTRUCTION. AFTER COMPLETION OF WORK IN A GIVEN AREA, CONTRACTOR SHALL INSTALL NEW LIGHTING FIXTURES AS INDICATED. WHERE EXISTING CEILINGS ARE BEING REMOVED, CONTRACTOR SHALL PROVIDE NEW SUPPORTS FOR ANY RACEWAYS, OUTLETS, JUNCTION BOXES, OR ANY OTHER ELECTRICAL ITEMS WHICH ARE TO REMAIN AND WHICH DEPEND UPON THE EXISTING CEILING SUSPENSION SYSTEM FOR SUPPORT. THE NEW SUPPORTS SHALL BE ATTACHED TO THE SLAB AND/OR STRUCTURE ABOVE.
4. EXISTING OUTLETS NOT TO BE REUSED SHALL BE REMOVED UNLESS DIRECTED OTHERWISE.
5. EXISTING WIRING, EXPOSED CONDUIT AND OTHER ELECTRICAL EQUIPMENT NOT TO BE RE-USED SHALL BE REMOVED.
6. ELECTRICAL EQUIPMENT REMOVED AND NOT TO BE RE-USED SHALL BE STORED ON THE SITE. CONTRACTOR SHALL REMOVE ANY EQUIPMENT WHICH OWNER DOES NOT WANT.

LIGHTING

1. REFER TO LUMINAIRE SCHEDULE FOR REQUIREMENTS.
2. LUMINAIRE SUBSTITUTIONS SHALL BE ALLOWED IF LUMINAIRES ARE DEEMED EQUAL IN INPUT WATTS, LUMEN OUTPUT, RATED LIFE, LIGHT DISTRIBUTION, AND QUALITY OF CONSTRUCTION. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW. FOR EXTERIOR LUMINAIRES SUBMIT A FOOT CANDLE PLOT INDICATING LUMINAIRE SCHEDULE, LLF, MOUNTING HEIGHT. SUBMITTALS SHALL BE MADE TO THE ENGINEER FOR APPROVAL.
3. DRIVERS FOR LED FIXTURES SHALL BE HIGH POWER FACTOR TYPE.
4. BATTERY BACKUP EQUIPMENT SHALL PROVIDE REQUIRED FOOTCANDLES PER NFPA FOR 1-1/2 HOURS.
5. PROVIDE EQUIPMENT AND STRUCTURE NECESSARY TO MOUNT AND SECURE LUMINAIRES AS INDICATED ON DRAWINGS. REFER TO LUMINAIRE MANUFACTURER RECOMMENDATIONS FOR MOUNTING REQUIREMENTS.
6. PROVIDE A MINIMUM OF ONE OUTLET BOX FOR EVERY TWO RECESSED LUMINAIRES. PROVIDE A 6-FOOT LONG 1/2" FLEXIBLE METAL CONDUIT CONNECTION (WITH #12 CONDUCTORS) FOR EACH RECESSED LUMINAIRE.

LIGHTING CONTROL SYSTEM

1. PROVIDE MECHANICAL TIMER IN ENCLOSED NEMA-3R BOX WITH 20A RATED LIGHTING CONTACTOR WITH POLES AS REQUIRED + 2 SPARES.
2. PROVIDE MANUFACTURER COMPATIBLE PHOTOCELL AND INSTALL ON EXTERIOR OF WALL FACING NORTH. PROVIDE CONTROL WIRE TO LIGHTING CONTACTOR COIL.
3. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY, UNLESS NOTED OTHERWISE.
4. WHERE ADEQUATE COVERAGE CAN BE ACHIEVED WITH SINGLE SENSOR, SMALL OFFICES SHALL HAVE A CEILING MOUNTED CORNER TYPE PIR TYPE SENSOR.
5. WALL MOUNTED SWITCH/OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY TYPE.
6. CONTRACTOR SHALL COORDINATE LAYOUT WITH MANUFACTURER TO ENSURE COVERAGE. ADDITIONAL SENSORS THAN INDICATED ON DRAWINGS MAY BE REQUIRED AND SHALL BE INCLUDED IN BASE BID.
7. CONTRACTOR SHALL COORDINATE WITH OWNER TO PROGRAM SWITCHING GROUPS. CONTRACTOR SHALL PROVIDE MANUALS AND TRAINING TO OWNER FOR FUTURE RE-PROGRAMMING.
8. DRAWINGS INDICATE SWITCHING/CONTROL OF LIGHT FIXTURES BY LOCATING FIXTURES AND SWITCHES/CONTROL DEVICES WITHIN THE SAME ROOM OR BY INDICATING SUBSCRIPTS NEXT TO FIXTURES AND SWITCHES/CONTROL DEVICES. PROVIDE WIRING AND RACEWAY AS NECESSARY TO CONNECT FIXTURES AND SWITCHES/CONTROL DEVICES.

CONDUCTORS AND CABLES

1. CONDUCTORS SHALL BE COPPER MATERIAL, TYPE SOUTHWIRE, ROME, AMERICAN OR APPROVED EQUIVALENT.
2. UNLESS OTHERWISE NOTED, SERVICE CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. OTHER CONDUCTORS SHALL HAVE TYPE THHN/THWN-2 INSULATION.
3. CONDUCTORS SMALLER THAN #1 SHALL BE COPPER, CONDUCTORS #1 AND LARGER MAY BE ALUMINUM OR COPPER.
4. ALUMINUM CONDUCTORS SHALL BE SERIES AA-8000.
5. TYPE MC CABLE SHALL BE ALLOWED IN APPLICATIONS ALLOWED PER NEC AND WHERE CONCEALED.
6. WHERE USING MC CABLE FOR SWITCHES, PROVIDE GROUNDED NEUTRAL CONDUCTOR (NEUTRAL) TO SWITCH.
7. WHERE ALUMINUM CONDUCTORS ARE USED, CONTRACTOR SHALL VERIFY THAT SPLICES AND TERMINATIONS ARE APPROVED FOR THE USE OF ALUMINUM CONDUCTOR.
8. CONDUCTOR SIZES INDICATED ON DRAWINGS ARE PER COPPER CONDUCTOR RATINGS. IF CONTRACTOR ELECTS TO USE ALUMINUM CONDUCTORS, CONTRACT SHALL RESIZE CONDUITS TO ACCOMMODATE ALUMINUM CONDUCTORS.
9. DRAWINGS INDICATE CIRCUITS BY NAMING PANEL AND CIRCUIT NUMBER NEXT TO DEVICE. PROVIDE WIRING AND RACEWAY AS NECESSARY TO CONNECT SUCH DEVICES TO EACH CIRCUIT.

RACEWAYS AND BOXES

1. WIRING SHALL BE CONTAINED IN ELECTRIC METALLIC TUBING WITH STEEL COMPRESSION FITTINGS OR SET SCREW CONNECTORS, UNLESS INDICATED OTHERWISE.
2. RACEWAYS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE.
3. WIRING INSTALLED EXPOSED OUTDOORS SHALL BE CONTAINED IN RIGID GALVANIZED HEAVY WALL CONDUIT.
4. WHERE ARCHITECT DETERMINES THAT RACEWAYS ARE TOO LARGE TO BE INSTALLED IN SLABS, THE RACEWAYS SHALL BE INSTALLED BENEATH THE SLABS.
5. WIRING INSTALLED UNDERGROUND OR IN FILL BENEATH BUILDING SLABS SHALL BE CONTAINED IN PVC SCHEDULE 40 RACEWAYS.
6. UP TO FIVE CONDUCTORS AND ONE DEVICE WILL BE PERMITTED IN A STANDARD (3"H x 2"W x 2 3/4"D) SWITCH BOX. WHERE MORE CONDUCTORS ARE SHOWN AND FOR VOICE/DATA OUTLETS, USE A 4" SQUARE x 1 1/2" DEEP, OR LARGER BOX WITH RAISED DEVICE COVER. CEILING BOXES SHALL BE 4" OCTAGONAL x 1 1/2" DEEP OR LARGER. BOXES IN WALLS SHALL NOT BE INSTALLED BACK-TO-BACK.
7. IN GENERAL, RECEPTACLES AND TELEPHONE OUTLETS SHALL BE INSTALLED AT 18" A.F.F. AND SWITCHES SHALL BE INSTALLED AT 48" A.F.F., UNLESS NOTED OTHERWISE.
8. PROVIDE ADDITIONAL BOXES IN RACEWAYS AS NECESSARY. LOCATIONS SHALL MEET THE ARCHITECT'S APPROVAL.
9. USE MULTI-GANG PLATES WHERE SWITCHES, RECEPTACLES, AND/OR DEVICES ARE GROUPED. PROVIDE ENGRAVING OF PLATES TO INDICATE FUNCTIONS (NAMES TO BE APPROVED BY ARCHITECT).
10. COMMUNICATION OUTLETS SHALL CONSIST OF OUTLET BOX AS INDICATED ABOVE WITH SINGLE GANG RAISED DEVICE COVER AND BLANK PLATE.
11. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONNECTION OF MOTORS AND FOR OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT, VIBRATION, AND ALSO WHERE SUBJECT TO ANY OF THE FOLLOWING: EXTERIOR, MOISTURE, CORROSIVE ATMOSPHERE.
12. RACEWAYS SHALL BE A MINIMUM OF 3/4" DIAMETER UNLESS OTHERWISE NOTED.

GROUNDING AND BONDING

1. THE METALLIC RACEWAY SYSTEM AND THE NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED AT THE SERVICE EQUIPMENT. THE INSULATED COPPER SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE EXTENDED WITH NO SPLICES IN RACEWAY FROM THE SERVICE TO WITHIN 5 FEET OF THE POINT OF ENTRANCE OF THE METAL UNDERGROUND WATER SERVICE PIPE THAT IS ELECTRICALLY CONTINUOUS AND IS IN DIRECT CONTACT WITH THE EARTH FOR AT LEAST 10 FEET. WHERE THE RACEWAY ROUTING IS VIA FINISHED AREAS, IT SHALL BE RUN CONCEALED. GROUND CONNECTION SHALL BE VISIBLE, AND CONNECTION OF RACEWAY AND CONDUCTOR TO THE WATER PIPE SHALL BE MADE WITH AN APPROVED GROUND CONNECTOR SIMILAR TO T & B CONDUIT HUB AND WATER PIPE CLAMP. ALSO, SEE ARTICLE 250.50, GROUNDING ELECTRODE SYSTEM AND GROUNDING ELECTRODE CONDUCTOR OF THE NATIONAL ELECTRICAL CODE FOR BONDING REQUIREMENTS TO OTHER ITEMS TO FORM THE GROUNDING ELECTRODE SYSTEM (THIS INCLUDES BONDING TO METAL FRAME OF BUILDING). THESE REQUIREMENTS SHALL BE SUPPLEMENTED BY GROUNDING TO A SET OF 2-3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND RODS SPACED 10' APART.
2. CONTRACTOR MAY USE EXISTING GROUND ROD SYSTEM IF IT COMPLIES WITH NEC AND IEEE. PROVIDE MEASUREMENTS TO VERIFY.
3. PROVIDE BONDING AROUND CONCENTRIC AND ECCENTRIC KNOCKOUTS ON EQUIPMENT.
4. EACH BRANCH CIRCUIT AND FEEDER SHALL BE PROVIDED WITH A GROUND CONDUCTOR INSTALLED WITH THE CIRCUIT CONDUCTORS. EACH GROUND CONDUCTOR SHALL BE A GREEN INSULATED COPPER CONDUCTOR, SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE NFPA-70. THESE GROUNDING CONDUCTORS MAY NOT BE SHOWN ON THE DRAWINGS.
5. PROVIDE GROUNDING BUS BAR AT EACH MDF AND IDF. PROVIDE GEC (MINIMUM #6 AWG OR AS RECOMMENDED BY MANUFACTURER) FROM DATA RACK TO GROUNDING BUS BAR AND FROM BUS BAR TO GROUNDING SYSTEM.
6. FOLLOW BICSI STANDARDS AND TELECOM EQUIPMENT MANUFACTURER GROUNDING RECOMMENDED PRACTICES.

POWER DISTRIBUTION

1. SERVICE ENTRANCE EQUIPMENT SHALL BE SQUARED, GENERAL ELECTRIC, SIEMENS, OR EQUAL WITH ALUMINUM OR COPPER BUS, COPPER GROUND BUS, NEMA-3R RATING. BOND NEUTRAL TO GROUND IN SERVICE ENTRANCE EQUIPMENT.
2. PANELBOARDS SHALL BE SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EQUAL WITH BOLT-ON BREAKERS, COPPER OR ALUMINUM BUS, COPPER GROUND BUS, DOOR WITH FLUSH LATCH, CONCEALED TRIM CLAMPS, CIRCUIT DIRECTORY, 20" WIDE BACKBOX, AND PHENOLIC NAMEPLATE (WHITE WITH BLACK-CUT LETTERS) ATTACHED WITH TWO SCREWS TO INDICATE PANELBOARD DESIGNATION.
3. LOAD CENTERS SHALL BE SURFACE MOUNTED, WITH COPPER OR ALUMINUM BUS, COPPER GROUND BUS, AND DOOR.
4. AFTER COMPLETION OF BRANCH CIRCUIT WORK, NEW CORRECTED TYPEWRITTEN DIRECTORIES SHALL BE PROVIDED IN PANELBOARDS SERVING THE AREA.
5. SAFETY SWITCHES SHALL BE SQUARE D, GENERAL ELECTRIC, SIEMENS, OR EQUAL, GENERAL DUTY FOR 208-240 VOLT NON-FUSED SWITCHES, AND HEAVY DUTY FOR 208-240 VOLT FUSIBLE SWITCHES. SAFETY SWITCHES SHALL HAVE VISIBLE BLADES, AND FUSIBLE SWITCHES SHALL HAVE CLASS R REJECTION FEATURE. EACH SHALL HAVE A PHENOLIC NAMEPLATE (WHITE WITH BLACK-CUT LETTERS) ATTACHED WITH TWO SCREWS TO IDENTIFY THE LOAD SERVED.
6. FUSES SHALL BE BUSS LOW-PEAK TYPE RK-1, CURRENT LIMITING AND TIME DELAY, REJECTION TYPE.
7. CIRCUIT BREAKERS: MOLDED CASE, THERMAL-MAGNETIC QUICK-MAKE, QUICK-BREAK TYPE WITH TRIP-FREE HANDLE, MULTI-POLE TYPE WITH INTERNAL COMMON TRIP BAR. CIRCUIT BREAKERS SHALL BE SWITCH RATED AND BOLT-ON TYPE.
8. CIRCUIT BREAKERS FOR HVAC UNITS SHALL BE UL 489 LISTED OR BE HACR TYPE PER NEC.
9. CONNECTION TO MOTORS SHALL BE MADE WITH A SHORT PIECE OF FLEXIBLE METAL CONDUIT BETWEEN RIGID CONDUIT SYSTEM AND MOTOR TERMINAL BOX. A SEPARATE COPPER CONDUCTOR SHALL BE CONNECTED BETWEEN MOTOR FRAME AND RIGID CONDUIT SYSTEM.
10. ON PANELBOARDS, PROVIDE ARC FLASH WARNING LABEL PER NEC.

WIRING DEVICES

1. WIRING DEVICES SHALL BE SPECIFICATION GRADE OF THE SAME MANUFACTURER. WALL SWITCHES SHALL BE 20A, 120/277V; DUPLEX RECEPTACLES SHALL BE 2P, 3W, GROUNDING TYPE, 20A, 125V.
2. SINGLE POLE SWITCHES SHALL BE HUBBELL #HBL1221 OR EQUAL.
3. DUPLEX RECEPTACLES SHALL BE HUBBELL #BR20 OR EQUAL.
4. GFCI DUPLEX RECEPTACLES SHALL BE HUBBELL #GFRST20 OR EQUAL.
5. MANUAL STARTERS SHALL BE SQUARE D OR ALLEN-BRADLEY MANUAL RESET TYPE WITH THERMAL OVERLOAD ELEMENTS. MANUAL STARTERS AND SWITCHES USED FOR MOTORIZED EQUIPMENT OR APPLIANCES SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE TO IDENTIFY THE LOAD SERVED.
6. DOUBLE POLE – SINGLE THROW SWITCHES SHALL BE HUBBELL #HBL3002 OR EQUAL.
7. KEYED SINGLE POLE SWITCHES SHALL BE HUBBELL #HBL1221RKL, OR EQUAL.
8. STAND ALONE WALL MOUNTED 0-10V DIMMERS SHALL BE EQUAL TO LUTRON DIVA DVSTV SERIES. PROVIDE 0-10V WIRING AS NECESSARY.
9. STAND ALONE WALL MOUNTED REVERSE PHASE DIMMERS SHALL BE EQUAL TO LUTRON DIVA DVRP SERIES.
10. DEVICE PLATES SHALL BE NYLON (IN KITCHENS WITH STAINLESS STEEL COUNTERS DEVICE PLATES SHALL BE #302 (NON-MAGNETIC) STAINLESS STEEL). THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
11. EXTERIOR DUPLEX RECEPTACLES SHALL BE WEATHER-RESISTANT GFI, HUBBELL #GFSTWR20I OR EQUAL WITH T&B RED DOT CODE-KEEPER OR EQUAL COVER (U.L. LISTED FOR WET LOCATION WHILE IN USE).
12. COMMUNICATION DATA OUTLETS SHALL CONSIST OF OUTLET BOX AS INDICATED PREVIOUSLY WITH SINGLE GANG RAISED DEVICE COVER AND BLANK PLATE.

SPECIAL SYSTEMS

1. TELEPHONE BACKBOARD SHALL BE 4' HIGH X 4' WIDE AND 3/4" THICK FIRE TREATED PLYWOOD.

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02-16-26

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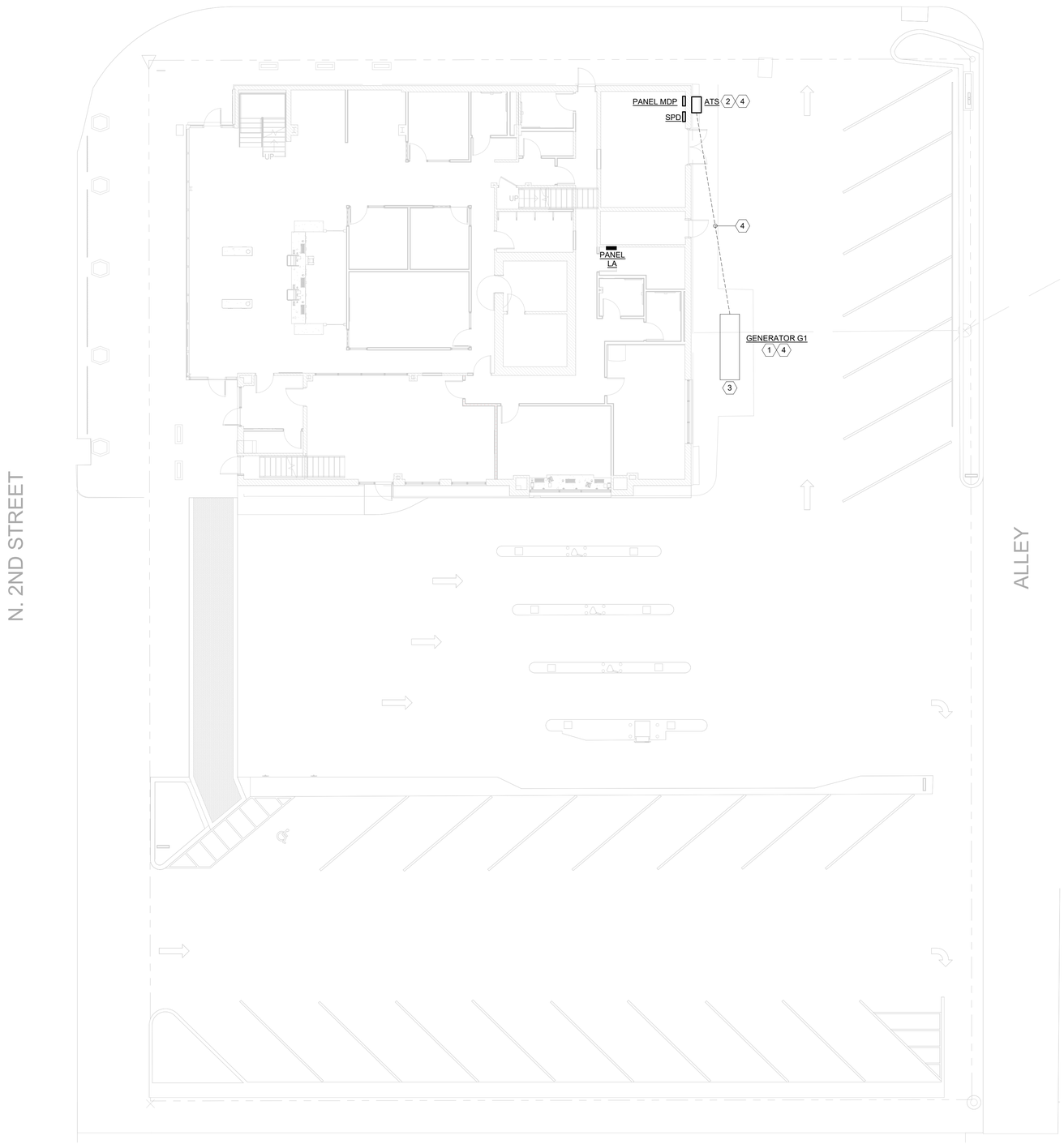
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
SPECIFICATIONS

SHEET NUMBER:
E0.3

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25080
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1 SITE
1" = 10'-0"

GENERAL NOTES:

1. SEE SCHEMATIC RISER DIAGRAM FOR ADDITIONAL INFORMATION.

SPECIFIC NOTES:

1. COORDINATE WITH CIVIL/ARCHITECT TO PROVIDE BOLLARD PROTECTION OF AREA FOR GENERATOR TO AVOID DAMAGE FROM VEHICLES IN PARKING LOT.
2. INTERCEPT EXISTING UNDERGROUND FEEDER FROM UTILITY POLE ACROSS THE SIDE ALLEY STREET THAT ENTERS BUILDING DIRECTLY INTO THE EXISTING 200A ELECTRICAL GEAR BEING REMOVED WITHIN THE MECHANICAL ROOM AND PREPARE FEEDER TO CONNECT TO NEW ATS.
3. ORIENTATE GENERATOR FOR EXHAUST TO EXIT AT THIS LOCATION.
4. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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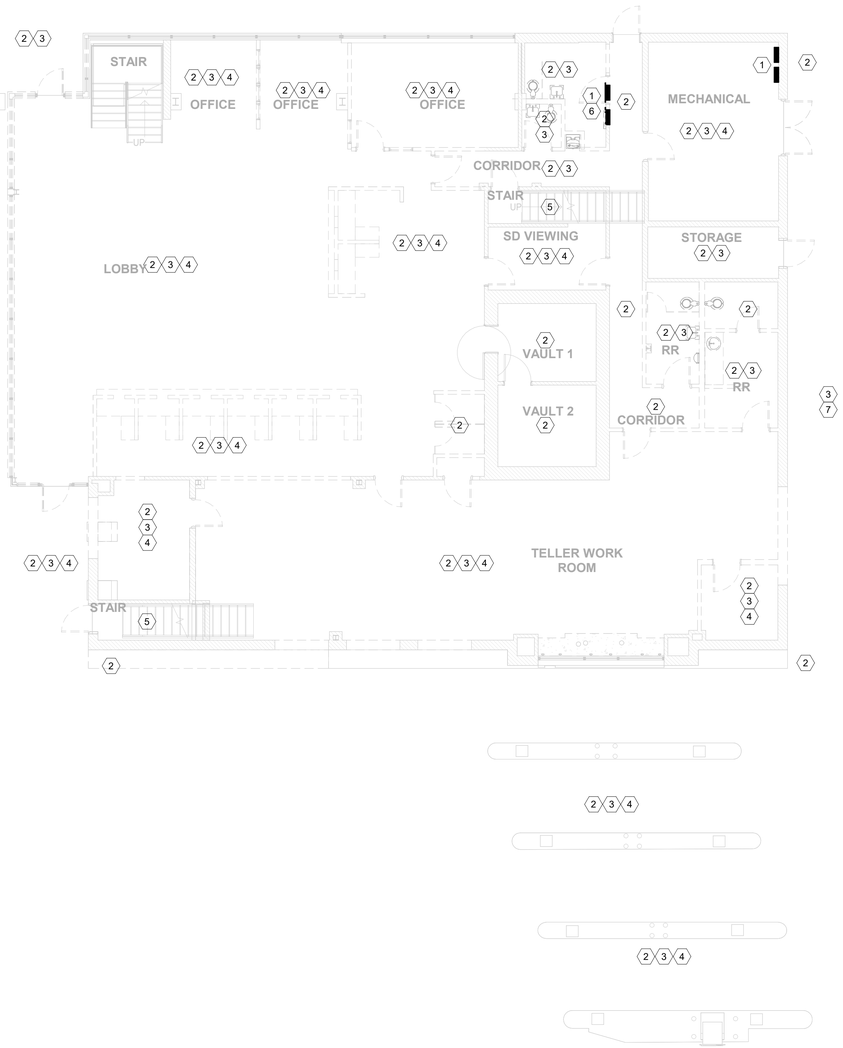
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
ELECTRICAL SITE

SHEET NUMBER:
E1.0

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1 FIRST FLOOR DEMO
1/8" = 1'-0"

GENERAL NOTES:

1. SELECTIVE DEMOLITION IS BEING PERFORMED THROUGHOUT BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION AND SURVEY EXISTING ELECTRICAL INSTALLATION. CONTRACTOR SHALL PROVIDE AND EXTEND ANY RACEWAY AND WIRING AS NECESSARY IN ORDER FOR EXISTING DEVICE TO REMAIN TO HAVE FULL FUNCTIONALITY.
2. ALL EXISTING LIGHT FIXTURES, DEVICES, AND ELECTRICAL EQUIPMENT CONNECTIONS NOT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE, RACEWAY AND WIRING/CABLING ASSOCIATED WITH REMOVED EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHALL BE REMOVED BACK TO SOURCE.
4. CONTRACTORS MAY REUSE EXISTING RACEWAY, DISCONNECT SWITCHES, FUSES, AND BRANCH CIRCUIT WIRING IF IN AN ACCEPTABLE CONDITION. RACEWAY AND WIRING NOT BEING REUSED SHALL BE TERMINATED IN J-BOX ABOVE ACCESSIBLE CEILING WITH CIRCUIT NUMBER LABELED OR REMOVED BACK TO SOURCE.

SPECIFIC NOTES:

1. DISCONNECT AND REMOVE EXISTING PANELBOARD(S).
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND CONTROLS WITHIN THIS ROOM / AREA.
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES WITHIN THIS ROOM / AREA.
4. DISCONNECT AND REMOVE EXISTING DATA OUTLETS WITHIN THIS ROOM / AREA.
5. THERE SHALL BE NO WORK IN WITHIN THIS ROOM.
6. DISCONNECT EXISTING BRANCH CIRCUITS WITHIN THESE PANELS THAT ARE SERVING DEVICES TO REMAIN ON 2ND FLOOR AND PREP CIRCUITS FOR REUSE IN NEW PANEL AT NEW LOCATION.
7. ABANDON EXISTING UNDERGOUND FEEDER TO EXISTING CHILLER BEING REMOVED TO AVOID REMOVAL OF CONCRETE IN PARKING LOT. CONTACT UTILITY TO DISCONNECT ADDITIONAL SERVICE POINT TO UTILITY POLE THAT CROSSES OVERHEAD OF SIDE ALLEY STREET.

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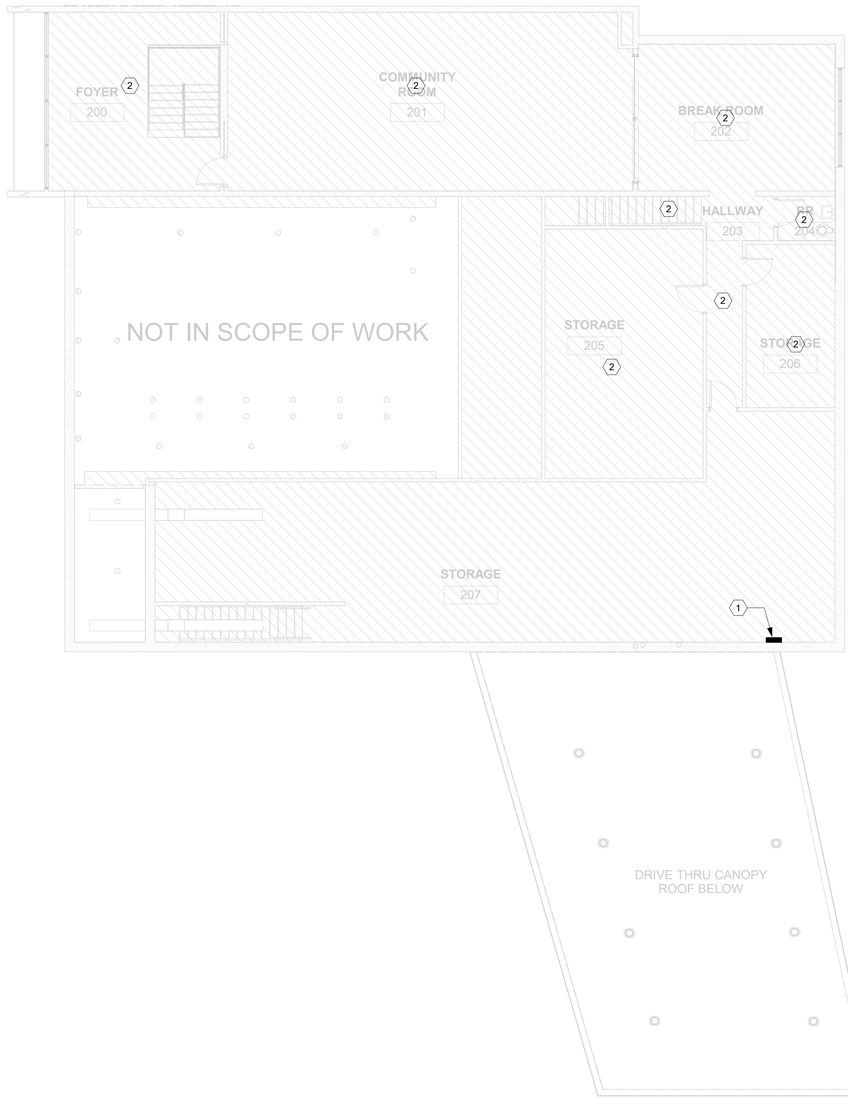
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
FIRST FLOOR DEMO

SHEET NUMBER:
E1.1

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1 SECOND FLOOR DEMO
1/8" = 1'-0"

GENERAL NOTES:

1. SELECTIVE DEMOLITION IS BEING PERFORMED THROUGHOUT BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION AND SURVEY EXISTING ELECTRICAL INSTALLATION. CONTRACTOR SHALL PROVIDE AND EXTEND ANY RACEWAY AND WIRING AS NECESSARY IN ORDER FOR EXISTING DEVICE TO REMAIN TO HAVE FULL FUNCTIONALITY.
2. ALL EXISTING LIGHT FIXTURES, DEVICES, AND ELECTRICAL EQUIPMENT CONNECTIONS NOT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE, RACEWAY AND WIRING/CABLING ASSOCIATED WITH REMOVED EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHALL BE REMOVED BACK TO SOURCE.
4. CONTRACTORS MAY REUSE EXISTING RACEWAY, DISCONNECT SWITCHES, FUSES, AND BRANCH CIRCUIT WIRING IF IN AN ACCEPTABLE CONDITION. RACEWAY AND WIRING NOT BEING REUSED SHALL BE TERMINATED IN J-BOX ABOVE ACCESSIBLE CEILING WITH CIRCUIT NUMBER LABELED OR REMOVED BACK TO SOURCE.
5. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES THROUGHOUT ENTIRE FLOOR PERTAINING TO HVAC EQUIPMENT BEING REMOVED ON THIS FLOOR.

SPECIFIC NOTES:

1 DISCONNECT AND REMOVE EXISTING PANELBOARD.

2 THERE SHALL BE NO WORK IN WITHIN THIS ROOM.

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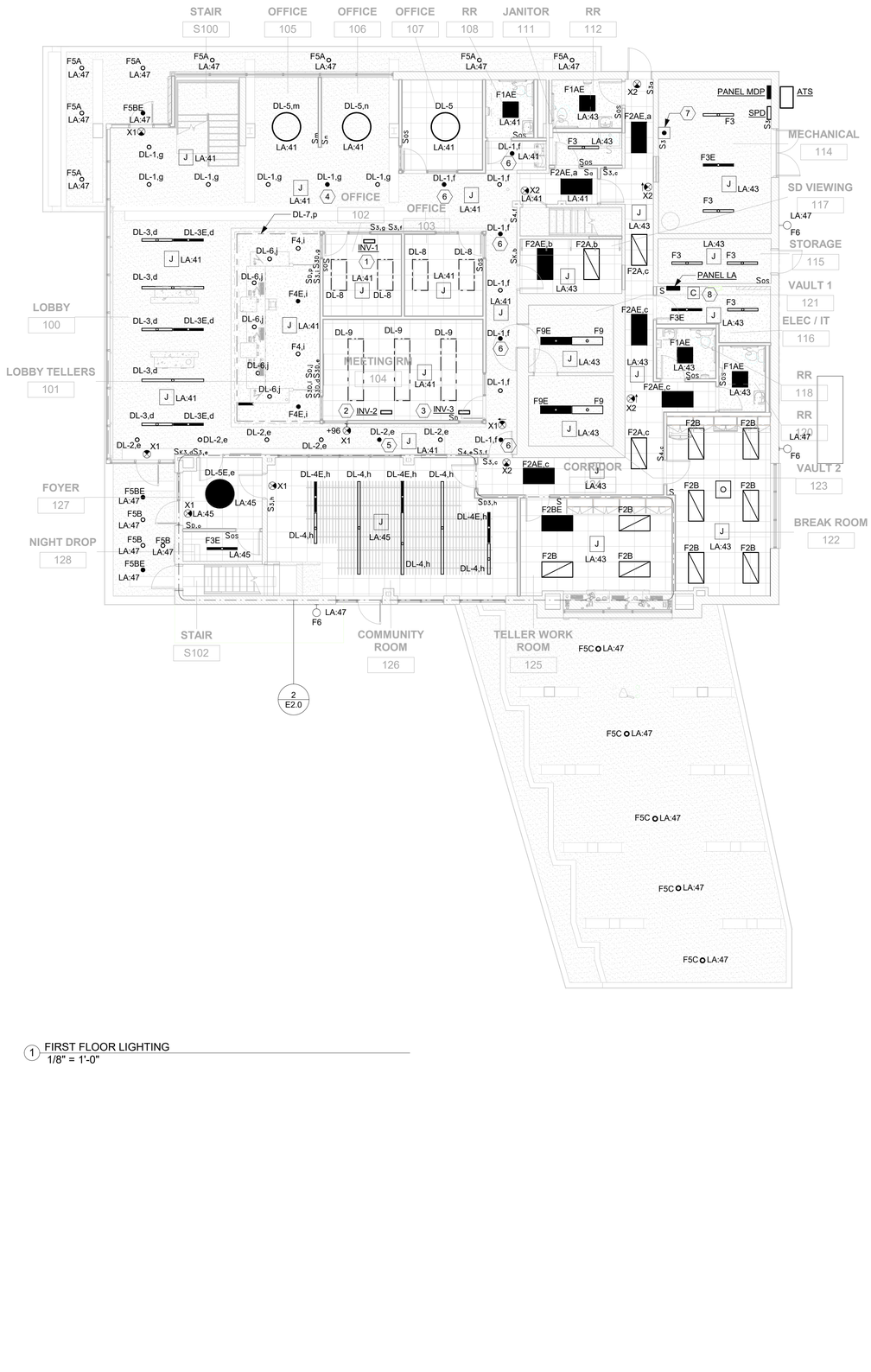
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PROJECT NUMBER: 2025-009
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DATE: 2/16/2026

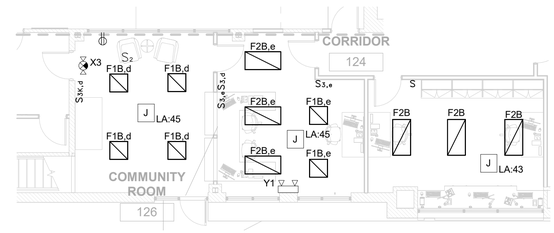
SHEET TITLE:
SECOND FLOOR DEMO

SHEET NUMBER:
E1.2

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1 FIRST FLOOR LIGHTING
1/8" = 1'-0"



2 TEMPORARY TELLER LINE LIGHTING
1/8" = 1'-0"

GENERAL NOTES:

1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 1Ø, 20A LOADS:
   #12 - 0'-70'
   #10 - 71'-110'
   #8 - 111'-175'
   #6 - 176'-280'
   PROVIDE APPROPRIATE HARDWARE TERMINATION FOR ASSOCIATED WIRE SIZE.
2. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
4. ALL WORK SHALL BE PART OF BASE BID UNLESS NOTED OTHERWISE.
5. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY EGRESS LIGHTING FIXTURE VOLTAGE SENSING CIRCUITS.
6. EMERGENCY LIGHTS SHALL BE WIRED FOR SWITCHED OPERATION UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE UNSWITCHED.
7. PROVIDE LOW VOLTAGE CONTROL WIRING, POWER PACKS, ETC TO PRODUCE A FULLY OPERATIONAL SYSTEM AS PER THE SWITCHING/ZONING SCHEMES SHOWN ON DRAWINGS.
8. WHERE OCCUPANCY/VACANCY SENSORS ARE SHOWN, CONTRACTOR SHALL LOCATE SENSOR PER MANUFACTURER'S SUGGESTION FOR OPTIMAL COVERAGE. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR FULL COVERAGE AND PREVENTION OF NUISANCE SWITCHING.

SPECIFIC NOTES:

(1) 25W REMOTE EMERGENCY LIGHTING INVERTER EQUIVALANET TO BODINE #ELI-S-25 FOR TYPE DL-1 LIGHT FIXTURE AS NOTED. INVERTER SHALL BE INSTALLED ABOVE ACCESSIBLE CEILING.

(2) 25W REMOTE EMERGENCY LIGHTING INVERTER EQUIVALANET TO BODINE #ELI-S-25 FOR TYPE DL-2 LIGHT FIXTURE AS NOTED. INVERTER SHALL BE INSTALLED ABOVE ACCESSIBLE CEILING.

(3) 25W REMOTE EMERGENCY LIGHTING INVERTER EQUIVALANET TO BODINE #ELI-S-25 FOR TYPE DL-1 LIGHT FIXTURES AS NOTED. INVERTER SHALL BE INSTALLED ABOVE ACCESSIBLE CEILING. PROVIDE 0-10V CABLING TO ALL NOTED TYPE DL-1 LIGHT FIXTURES PER MANUFACTURER'S REQUIREMENTS FOR DIMMING OF LIGHT FIXTURES WHEN INVERTER IS IN EMERGENCY OPERATION MODE.

(4) ROUTE CIRCUIT FOR LIGHT FIXTURE VIA INVERTER INV-1.

(5) ROUTE CIRCUIT FOR LIGHT FIXTURE VIA INVERTER INV-2.

(6) ROUTE CIRCUIT FOR LIGHT FIXTURE VIA INVERTER INV-3. PROVIDE 0-10V CABLING PER INVERTER MANUFACTURER'S REQUIREMENTS TO LIGHT FIXTURE TO ALLOW FOR UNIFORM DIMMING OF ALL OTHER NOTED TYPE DL-1 LIGHT FIXTURES BY INVERTER INV-3 TO GET TOTAL LOAD OF ALL DL-1 FIXTURES CONNECTED TO INVERTER DOWN TO 25 WATTS.

(7) DMX CONTROLLER FOR FIXTURE TYPE F8. CONTROLLER SHALL BE EQUIVALENT TO ACOLYTE #DMXCTRLG.

(8) LIGHTING CONTACTOR PER SPECIFICATION FOR CONTROL OF LIGHTING CIRCUITS AS NOTED ON PANEL SCHEDULE LA. PROVIDE 120V CONTROL FOR CONTACTOR FROM CIRCUIT LA:20.

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02-16-26

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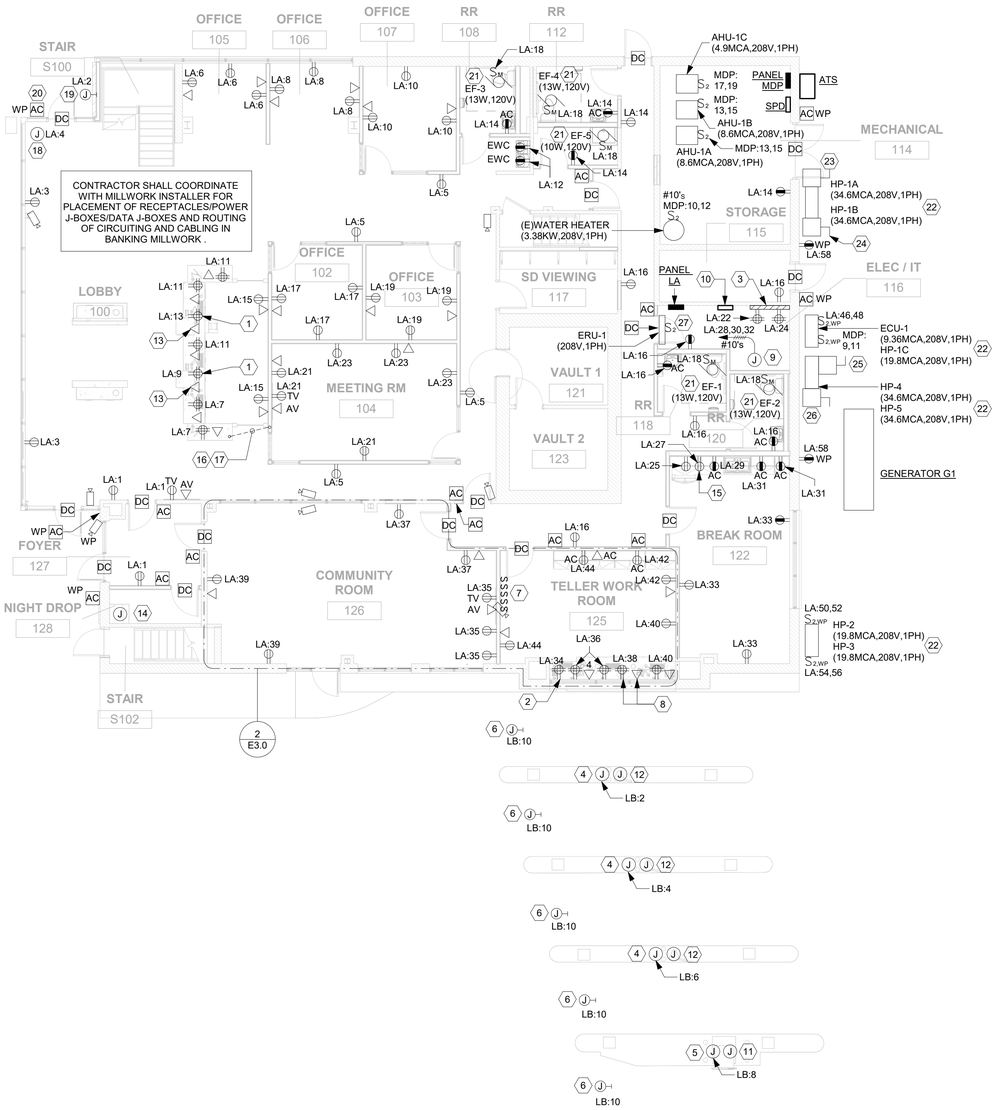
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PHASE: 100% CD
DATE: 2/16/2026

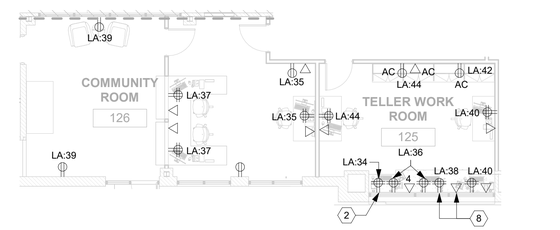
SHEET TITLE:
FIRST FLOOR LIGHTING

SHEET NUMBER:
E2.0

EDS, Inc
25080
ELECTRICAL DESIGN SOLUTIONS
(844) EDS-1990 www.ewithd.com



1 FIRST FLOOR POWER & SS
1/8" = 1'-0"



2 TEMPORARY TELLER LINE POWER & SS
1/8" = 1'-0"

GENERAL NOTES:

1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 1Ø, 20A LOADS:
   #12 - 0'-70'
   #10 - 71'-110'
   #8 - 111'-175'
   #6 - 176'-280'
   PROVIDE APPROPRIATE HARDWARE TERMINATION FOR ASSOCIATED WIRE SIZE.
2. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE AND DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

SPECIFIC NOTES:

1. FOR CASH RECYCLER. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
2. FOR DRIVE-THRU AUDIO MATRIX. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE TELEPHONE BACKBOARD, GROUNDING BUSBAR, AND GROUNDING AS PER SPECIFICATIONS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. FOR DRIVE-THRU TUBE SYSTEM MOTORS. PROVIDE WIRING AND SWITCHING PER MANUFACTURER'S REQUIREMENTS FOR ON/OFF OPERATION OF TUBE SYSTEM. COORDINATE EXACT LOCATION WITH TUBE SYSTEM INSTALLER.
5. FOR ATM. COORDINATE EXACT LOCATION WITH ATM INSTALLER.
6. LED OPEN/CLOSED SIGNAGE EQUAL TO SIGNAL-TECH #TCL718GR-100/120-277VAC. COORDINATE WITH ARCHITECT FOR FINISH, MOUNTING TYPE, AND EXACT MOUNTING LOCATION.
7. PROVIDE 5-GANG OPTIONAL SWITCH ACCESSORY COMPATIBLE WITH LED OPEN/CLOSED SIGNAGE AT DRIVE-THRU TELLER LANES. PROVIDE WIRING TO SWITCHES PER MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION OF SWITCHES WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
8. FOR DRIVE-THRU WINDOW DRAWER. COORDINATE EXACT LOCATION WITH DRAWER INSTALLER .
9. FOR SERVER
10. ALARM CONTROL CABINET. PROVIDE TWO (2) DUPLEX RECEPTACLES; ONE ON CIRCUIT LA:XX AND ONE ON CIRCUIT LA:XX PROVIDE TWO (2) 1"R WITH PULLSTRING STUBBED ABOVE ACCESSIBLE CEILING. PROVIDE RACEWAY FOR ONE (1) VOICE/DATA OUTLET FOR FUTURE TELEPHONE OUTLET. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
11. PROVIDE ONE (1) 1"R WITH PULLSTRING FROM J-BOX FOR ATM TO ALARM CONTROL CABINET. COORDINATE EXACT LOCATION WITH ATM INSTALLER.
12. PROVIDE ONE (1) 1"R WITH PULLSTRING FOR DRIVE-THRU TUBE SYSTEM TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION WITH TUBE SYSTEM INSTALLER.
13. PROVIDE ONE (1) 1"R WITH PULLSTRING FOR CASH RECYCLER TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
14. PROVIDE ONE (1) 3/4"R WITH PULLSTRING FROM J-BOX. FOR NIGHT DROP TO ALARM CONTROL CABINET. COORDINATE INSTALLATION WITH NIGHT DROP INSTALLER.
15. FOR MICROWAVE BELOW COUNTER. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
16. PROVIDE ONE (1) 1"R UNDERFLOOR FOR ROUTING OF ELECTRICAL CIRCUIT FROM MILLWORK UP THROUGH WALL TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF STUB UPS WITH ARCHITECT PRIOR TO ROUGH-IN.
17. PROVIDE ONE (1) EMPTY 1"R WITH PULLSTRING UNDERFLOOR FOR ROUTING OF LOW VOLTAGE CABLING FROM MILLWORK UP THROUGH WALL TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF STUB UPS WITH ARCHITECT PRIOR TO ROUGH-IN.
18. FOR MOTORIZED ROLLER SHADES. PROVIDE CABLING AND RACEWAY PER MANUFACTURER'S REQUIREMENTS FOR CONTROLS TO LOCATIONS PER ARCHITECT/OWNER.
19. FOR SIGNAGE. COORDINATE EXACT LOCATION WITH SIGNAGE PROVIDER PRIOR TO ROUGH-IN.
20. PROVIDE J-BOX FOR DEVICE WITHIN MULLION OF DOOR.
21. PROVIDE CONTROL OF EXHAUST FAN VIA SAME SWITCH WITH INTEGRAL OCCUPANCY SENSOR THAT CONTROLS LIGHTING WITHIN THIS ROOM.
22. MECHANICAL UNITS ARE STACKED.
23. 60A/NF/2P,2W/208V/N-3R DISCONNECT FOR UNIT HP-1A. PROVIDE 2 #8 & 1 #10 (G) IN 3/4"R BRANCH CIRCUIT TO MDP:1,3.
24. 60A/NF/2P,2W/208V/N-3R DISCONNECT FOR UNIT HP-1B. PROVIDE 2 #8 & 1 #10 (G) IN 3/4"R BRANCH CIRCUIT TO MDP:5,7.
25. 60A/NF/2P,2W/208V/N-3R DISCONNECT FOR UNIT HP-4. PROVIDE 2 #8 & 1 #10 (G) IN 3/4"R BRANCH CIRCUIT TO MDP:2,4.
26. 60A/NF/2P,2W/208V/N-3R DISCONNECT FOR UNIT HP-5. PROVIDE 2 #8 & 1 #10 (G) IN 3/4"R BRANCH CIRCUIT TO MDP:6,8.
27. UNIT IS POWERED FROM OUTDOOR UNIT ECU-1. PROVIDE 2 #12 & 1 #12(G) IN 3/4"R BRANCH CIRCUIT TO ECU-1.

STATE OF LOUISIANA
CODY J. LeBLANC
License No. 41073
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
02-16-26

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EUNICE, LA. 70535

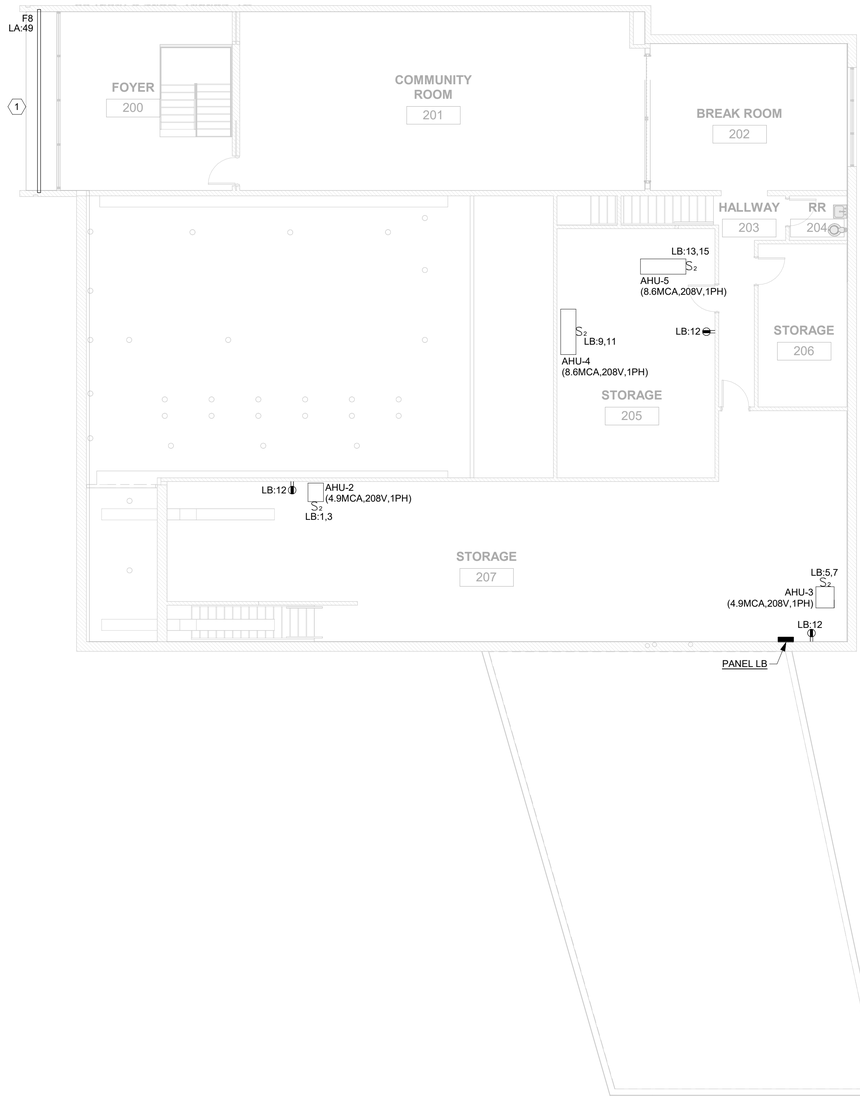
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
FIRST FLOOR POWER & SS

SHEET NUMBER:
E3.0

EDS, Inc 25080
ELECTRICAL DESIGN SOLUTIONS
(844) EDS-1990 www.ewithd.com



1 SECOND FLOOR ELECTRICAL
1/8" = 1'-0"

GENERAL NOTES:

1. BRANCH CIRCUIT HOMERUNS SHALL BE SIZED FOR VOLTAGE DROP BASED UPON THE FOLLOWING FOR 120V, 1Ø, 20A LOADS:
   #12 - 0'-70'
   #10 - 71'-110'
   #8 - 111'-175'
   #6 - 176'-280'
   PROVIDE APPROPRIATE HARDWARE TERMINATION FOR ASSOCIATED WIRE SIZE.
2. BRANCH CIRCUITS SHALL NOT EXCEED 3% VOLTAGE DROP. UPSIZE WIRE AS REQUIRED.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE AND DEVICE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

SPECIFIC NOTES:

1. APPROXIMATELY 56'-0" OF FIXTURE TYPE TO OUTLINE ENTIRETY OF EXTERIOR OF 2ND FLOOR WINDOW. COORDINATE WITH ARCHITECTURAL FOR EXACT PLACEMENT OF FIXTURE.

STATE OF LOUISIANA
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02-16-26

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St. Laundry Bank

EUNICE RENOVATION

101 NORTH 2ND STREET
EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
SECOND FLOOR ELECTRICAL

SHEET NUMBER:
E3.1

EDS, Inc
25080
ELECTRICAL DESIGN SOLUTIONS
(844) EDS-1990 www.ewithd.com

PANEL NAME:	**MDP**	MAINS RATING:	**200A**	VOLTAGE RATING:	**208Y/120**
MOUNTING:	**SURFACE**	PH BUS MATERIAL:	**CU / AL**	ENCLOSURE TYPE:	**N-1**
MAINS TYPE:	**MLO**	G BUS MATERIAL:	**CU**	AIC RATING:	**10,000**
				SUBFEED:	**NONE**

#	CB TRIP RTG (A)	P	DESCRIPTION	LOAD PHASE A VA	LOAD PHASE B VA	LOAD PHASE C VA	DESCRIPTION	P	CB TRIP RTG (A)	#
1	35	2	HP-1A	2879	2879		HP-4	2	35	2
3					2879	2879				4
5	35	2	HP-1B			2879	HP-5	2	35	6
7				2879	2879					8
9	20	2	HP-1C		1647	1690	WATER HEATER	2	30	10
11						1647				12
13	15	2	AHU-1A	716	13486		PANEL LA	3	125	14
15					716	12446				16
17	15	2	AHU-1B			716				18
19				716	3532					20
21	15	2	AHU-1C		408	2590	PANEL LB	3	60	22
23						408				24
25	20	2	SPARE				SPD	3	30	26
27										28
29										30
TOTAL CONNECTED VA				29966	25255	24722	PANEL GENERAL NOTES:			
TOTAL CONNECTED A				222						
TOTAL DIVERSIFIED VA				69632						
TOTAL DIVERSIFIED A				193						

CIRCUIT NOTES	
(1)	
(2)	
(3)	
(4)	

PANEL NAME:	**LA**	MAINS RATING:	**125A**	VOLTAGE RATING:	**208Y/120**
MOUNTING:	**SURFACE**	PH BUS MATERIAL:	**CU / AL**	ENCLOSURE TYPE:	**N-1**
MAINS TYPE:	**MLO**	G BUS MATERIAL:	**CU**	AIC RATING:	**10,000**
				SUBFEED:	**NONE**

#	CB TRIP RTG (A)	P	DESCRIPTION	LOAD PHASE A VA	LOAD PHASE B VA	LOAD PHASE C VA	DESCRIPTION	P	CB TRIP RTG (A)	#
1	20	1	REC – ROOM 100 & 127	540	1000		(1) EXTERIOR SIGNAGE	1	20	2
3	20	1	REC – LOBBY 100		360	500	WINDOW ROLLER SHADES	1	20	4
5	20	1	REC – CORRIDOR 109			720	540	REC – OFFICE 105	1	20	6
7	20	1	REC – TELLER 100	720	540			REC – OFFICE 106	1	20	8
9	20	1	TELL 100 CASH RECYCLER		500	540		REC – OFFICE 107	1	20	10
11	20	1	REC – TELLER 100			1080	1000	EWC	1	20	12
13	20	1	TELL 100 CASH RECYCLER	500	900			REC – RM 108-09/11-14	1	20	14
15	20	1	REC – TELLER 100		360	1260		REC – RM 113/15-16/18-20/24	1	20	16
17	20	1	REC – OFFICE 102			540	65	EXHAUST FANS	1	20	18
19	20	1	REC – OFFICE 103	540	200			CONTACTOR	1	20	20
21	20	1	REC – MEETING 104		540	500		ALARM PANEL	1	20	22
23	20	1	REC – MEETING 104			540	360	REC – TEL BACKBOARD	1	20	24
25	20	1	REFRIGERATOR (2)	500	360			REC – TEL BACKBOARD	1	20	26
27	20	1	MICROWAVE (2)		1500	1500		DATA RACK	1	20	28
29	20	1	REC – BREAK 122			180	1500	DATA RACK	1	20	30
31	20	1	REC – BREAK 122	360	1500			DATA RACK	1	20	32
33	20	1	REC – BREAK 122		540	360		TELLER 125 AUDIO MATRIX	1	20	34
35	20	1	REC – COMMUNITY 126			540	720	REC – TELLER 125	1	20	36
37	20	1	REC – COMMUNITY 126	360	360			TELLER 125 DRAWER	1	20	38
39	20	1	REC – COMMUNITY 126		360	540		REC – TELLER 125	1	20	40
41	20	1	LTG – ROOM 100-110 & 129			1301	360	REC – TELLER 125	1	20	42
43	20	1	LTG – ROOM 111-125	1116	360			REC – TELLER 125	1	20	44
45	20	1	LTG – ROOM 126-128		300	779		ECU-1 / ERU-1	2	15	46
47	20	1	LTG – BLDG EXTERIOR (1)			467	779				48
49	20	1	LTG – 2ND FL WINDOW (1)	336	1647			HP-2	2	20	50
51	20	1	SPARE			1647					52
53	20	1	SPARE				1647	HP-3	2	20	54
55	20	1	SPARE		1647						56
57	20	1	SPARE			360		REC – EXTERIOR HVAC	1	20	58
59	20	1	SPARE					SPARE	1	20	60
61			SPACE					SPACE			62
63			SPACE					SPACE			64
65			SPACE					SPACE			66
67			SPACE					SPACE			68
69			SPACE					SPACE			70
71			SPACE					SPACE			72
TOTAL CONNECTED VA				13486	12446	12339	PANEL GENERAL NOTES:			
TOTAL CONNECTED A				106						
TOTAL DIVERSIFIED VA				36496						
TOTAL DIVERSIFIED A				101						

CIRCUIT NOTES	
(1)	ROUTE CIRCUIT VIA LIGHTING CONTACTOR ADJACENT TO PANEL.
(2)	PROVIDE GFCI TYPE CIRCUIT BREAKER.
(3)	
(4)	

PANEL NAME:	**LB**	MAINS RATING:	**100A**	VOLTAGE RATING:	**208Y/120**
MOUNTING:	**SURFACE**	PH BUS MATERIAL:	**CU / AL**	ENCLOSURE TYPE:	**N-1**
MAINS TYPE:	**MLO**	G BUS MATERIAL:	**CU**	AIC RATING:	**10,000**
				SUBFEED:	**NONE**

#	CB TRIP RTG (A)	P	DESCRIPTION	LOAD PHASE A VA	LOAD PHASE B VA	LOAD PHASE C VA	DESCRIPTION	P	CB TRIP RTG (A)	#
1	15	2	AHU-2	408	500		DRIVE-THRU TUBE SYSTEM	1	20	2
3					408	500	DRIVE-THRU TUBE SYSTEM	1	20	4
5	15	2	AHU-3			408	500	DRIVE-THRU TUBE SYSTEM	1	20	6
7				408	1500			ATM	1	20	8
9	15	2	AHU-4		716	250		DRIVE-THRU SIGNAGE	1	20	10
11						716	540	REC – 2ND FL HVAC	1	20	12
13	15	2	AHU-5	716				SPARE	1	20	14
15					716			SPARE	1	20	16
17	20	1	SPARE					SPARE	1	20	18
19	20	1	SPARE					SPARE	1	20	20
21	20	1	SPARE					SPARE	1	20	22
23	20	1	SPARE					SPARE	1	20	24
25	20	1	SPARE					SPARE	1	20	26
27	20	1	SPARE					SPARE	1	20	28
29	20	1	SPARE					SPARE	1	20	30
TOTAL CONNECTED VA				3532	2590	2164	PANEL GENERAL NOTES:			
TOTAL CONNECTED A				23						
TOTAL DIVERSIFIED VA				13749						
TOTAL DIVERSIFIED A				38						

CIRCUIT NOTES	
(1)	
(2)	
(3)	
(4)	

STATE OF LOUISIANA
CODY T. LeBLANC
License No. 41073
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
02-16-26

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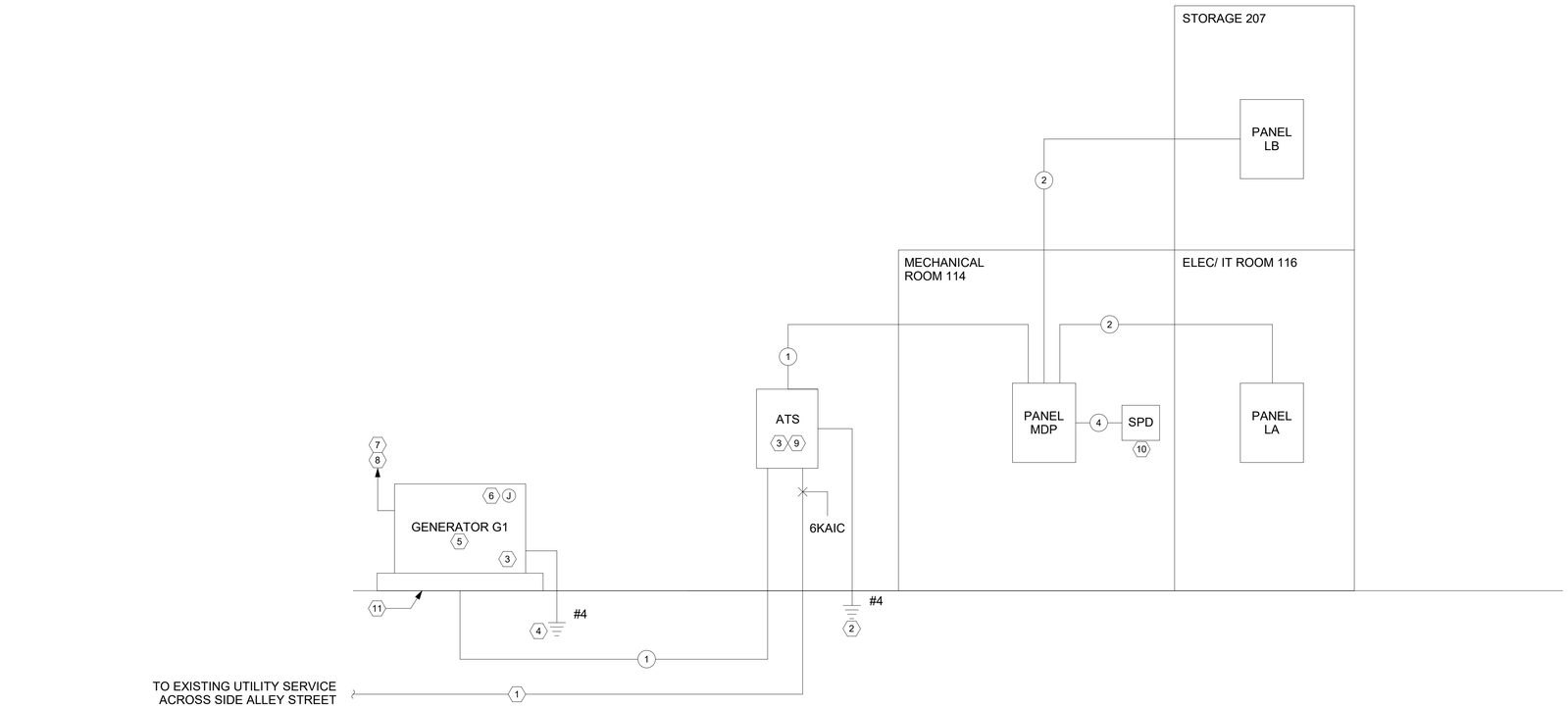
No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
PANEL SCHEDULES

SHEET NUMBER:
E6.0

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1 POWER RISER DIAGRAM
NO SCALE

GENERAL NOTES:

1. PROVIDE PULL BOXES AS PER MANUFACTURER'S RECOMMENDATIONS TO MEET MANUFACTURER REQUIREMENTS FOR MAXIMUM PULL LENGTHS.
2. PROVIDE 3" HIGH HOUSEKEEPING PAD ON FLOOR MOUNTED EQUIPMENT. PAD SHALL BE EXTEND 3" FROM PERIMETER OF EQUIPMENT BASE.

SPECIFIC NOTES:

1. EXISTING FEEDER TO BE REMOVED UP TO POINT TO ALLOW FOR REMOVAL OF EXISTING BUILDING ELECTRICAL GEAR AND BE SPLICED WITH NEW FEEDER OF SAME QUANITY AND SIZE OF CONDUCTORS IN ORDER TO ALLOW FOR INSTALLATION TO NEW ATS ON BUILDING EXTERIOR. PROVIDE PULL BOXES AS REQUIRED.
2. MAIN SERIVICE GROUND, PROVIDE COOPER GROUND. SIZED AS SHOW, PER NEC 250.32.
3. PROVIDE NEUTRAL TO GROUND BOUNDING.
4. PROVIDE COPPER GROUNDING, SIZED AS SHOWN, FOR A SEPARATELY DERIVED SYSTEM PER NEC 250.30.
5. 88KVA/70KW, 120V/208V, 3PH, 4W, NATURAL GAS, STAND-BY GENERATOR WITH 200A/3P CIRCUIT BREAKER IN WEATHERPROOF, LEVEL 2 SOUND ATTENUATED ENCLOSURE. CUMMINS #C70N6 OR APPROVED EQUIVALENT.
6. PROVIDE ONE (1) EMPTY 1"R WITH PULLSTRING ROUTED UNDERGROUND FOR FUTURE CONTROL WIRING. STUB AND CAP RACEWAY IN ELECTRICAL ROOM 116.
7. PROVIDE CIRCUITING FOR GENERATOR AUXILIARY SERVICES, SUCH A BATTERY CHARGING, GENERATOR HEATER, ETC, AS REQUIRED PER MANUFACTURER'S FROM SPARE CIRCUIT BREAKERS IN PANEL LA.
8. PROVIDE WIRING IN UNDERGROUND RACEWAY FOR REMOTE GENERATOR ANNUNCIATOR PANEL PER MANUFACTURER'S REQUIREMENTS. COORDINATE EXACT LOCATION WITHIN ELECTRICAL ROOM WITH ARCHITEC/OWNER PRIOR TO INSTALATION.
9. 200A/208V/3P/4W/N-3R SERVICE ENTRANCE RATED ATS. CUMMINS OTEC SERIES OR EQUIVALENT.
10. SURGE PROTECTION DEVICE EQUIVALENT TO CURRENT TECHNOLOGY #CG3-125-208-3Y-ML-U-F.
11. PROVIDE PAD FOR GENERATOR PER MANUFACTURER'S REQUIREMENTS.

FEEDERS NOTES:

1. 4 #3/0 & 1 #6(G) IN 2-1/2"R.
2. 4 #1 & 1 #6(G) IN 1-1/2"R.
3. 4 #4 & 1 #10(G) IN 1-1/4"R.
4. 4 #10 & 1 #10(G) IN 3/4"R.

STATE OF LOUISIANA
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EUNICE, LA. 70535

No.	Description	Date

PROJECT NUMBER: 2025-009
PHASE: 100% CD
DATE: 2/16/2026

SHEET TITLE:
POWER RISER DIAGRAM

SHEET NUMBER:
E7.0

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25080
ELECTRICAL DESIGN SOLUTIONS
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