

Project Directory

CIVIL ENGINEER:  
WARREN DIETZ, JR.

(985) 867-3491 OFFICE ~ (504) 512-2099 MOBILE

Code Data

NFPA 101 - LIFE SAFETY CODE 2015 EDITION

CLASSIFICATION OF OCCUPANCY:  
NEW BUILDING  
BUSINESS CHAPTER 38

CLASSIFICATION OF CONSTRUCTION TYPE:  
VB

OCCUPANT LOAD FACTOR:  
1 PERSON PER 150 SQ. FT. GROSS

INTERNATIONAL BUILDING CODE 2015 EDITION

USE & OCCUPANCY CLASSIFICATION:  
SECTION 304 -BUSINESS GROUP B

TYPE OF CONSTRUCTION:  
VB (UNPROTECTED/UNSPRINKLERED)

GENERAL BUILDING HEIGHTS AND AREAS  
SINGLE STORY BUILDING-1 STORY

INTERIOR WALL AND CLG. FINISHES  
CLASS A IN EXITS ENCLOSURES AND EXIT  
PASSAGEWAYS, CLASS B CORRIDORS,  
ROOMS AND ENCLOSED SPACES CLASS C.

MEANS OF EGRESS

PER TABLE 1005.1, EGRESS WIDTH OF  
CORRIDORS.

THE COMMON PATH OF EGRESS TRAVEL,  
PER IBC 1014.3 IS LESS THAN 75 FEET.

ACCESSIBILITY

ALL LANDINGS AND WALKWAYS ARE TO  
BE LEVEL WITH FINISHED FLOOR ELEVATION  
5'-0" FROM THRESHOLD. ALL EXITS ARE TO  
PAVED TO PUBLIC WAY.

HANDI-CAP PARKING AND SIGNAGE IS  
EXISTING TO THE RETAIL DEVELOPMENT.

TOILET FACILITIES ARE EXISTING AND ARE  
NOT TO BE ALTERED UNDER THIS WORK.

SIGNAGE WILL BE PROVIDED TO COMPLY  
WITH IBC SECTION 1109.

LOADS  
1ST. FLOOR LIVE LOAD=100 PSF  
CORRIDOR LIVE LOAD=100PSF  
ROOF LIVE LOADS=20# WITH TRIBUTARY REDUCTION  
FLOOR LIVE LOADS=100 PSF  
ROOF SNOW LOADS= 5# PSF GROUND SNOW  
FLOOR LOADS ABOVE 1ST FLOOR = NA  
WIND SPEED=127  
NOMINAL WIND SPEED=90  
RISK CATEGORY=2  
WIND EXPOSURE=B  
APPLICABLE INTERNAL PRESSURE COEFFICIENT=0.18  
COMP & CLOUDING WIND PRESSURE=35PSF

| SHEET INDEX                    |              |
|--------------------------------|--------------|
| Sheet Name                     | Sheet Number |
| SITE PLAN & CODE REFERENCES    | A1.0         |
| SITE PLAN                      | A1.1         |
| FIRST LEVEL FLOOR PLAN         | A1.2         |
| EXTERIOR ELEVATIONS            | A3.0         |
| HIGH WIND CONSTRUCTION DETAILS | A3.4         |

DEVIER ENTERPRISES, LLC

TIRE SHOP HWY 22- 656 EAST PINE

7/22/2024

DD-225C

General Notes

THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY  
ACQUAINT HIMSELF WITH ALL ASPECTS OF THE CONSTRUCTION  
OUTLINED IN THIS DOCUMENT PRIOR TO SUBMITTING A BID. ANY  
DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE  
ATTENTION OF THE DESIGNER/ENGINEERS.

IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE  
HIMSELF WITH THE SPECIFICATIONS AS  
WELL AS THE

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY  
APPARATUS REQUIRED TO INSURE THE HEALTH OF WORKERS AS  
WELL AS THE OWNERS AND  
GENERAL

THE CONTRACTOR SHALL PROVIDE ANY SITE DEMOLITION/UTILITY  
RELOCATION NECESSARY FOR COMPLETION OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES  
AS REQUIRED BY ROOFING MANUFACTURER TO PROVIDE A  
COMPLETE ROOF  
CERTIFIABLE BY THE  
MANUFACTURER.  
THE CONTRACTOR SHALL PROVIDE THE DIMENSIONS SHOWN ON THE PLANS  
REPRESENT AN EXACT QUANTITY OF MATERIALS. THE BIDDER IS  
SOLEY RESPONSIBLE FOR THE  
QUANTITIES IN HIS  
BILL OF MATERIALS.  
THE CONTRACTOR TO COODINATE EXPANSION JOINT LOCATIONS WITH  
ENGINEER.

PROVIDE LEVEL TRANSITION AT ALL DOORS FOR A MINIMUM OF  
5'-0" IN FRONT AND BACK OF DOORS. EXTERIOR DOORS MUST  
HAVE ENOUGH ROOM FOR A 5'-0"MIN. LANDING WITH MAXIMUM  
FALL  
OF

ALL FLOOR PLAN DIMENSIONS ARE TO THE FACE OF STUD UNLESS  
OTHERWI  
SE

NOTED. THE CONTRACTOR SHALL KEEP THE SITE AND ALL INTERIOR  
SPACES CLEAR OF TRASH AND CONSTRUCTION DEBRIS DURING  
CONSTRUCTION ON A DAILY BASIS.

THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING  
UNDERGROUND UTILITIES EXACT LOCATIONS PRIOR TO  
EXCAVATION WORK. REPAIR OF THE SYSTEM SHALL BE THE  
RESPONSIBILITY OF THE GENERAL CONTRACTOR SHOULD THEY BE  
DAMAGED DURING THE COURSE OF THIS CONSTRUCTION  
CONTRACT.

ALL DOORS LAID OUT IN AN EGRESS WAY SHALL BE LAID OUT IN  
SUCH A MANNER AS TO ALLOW 18" ON THE PULL SIDE OF THE  
DOOR AND 12" ON THE PUSH SIDE OF HTE DOOR AND AS PER  
A.D.A. ACCESSIBILITY GUIDELINES. ANY DOOR IN QUESTION SHALL  
BE BROUGHT TO THE ATTENTION OF THE DESIGNER/ENGINEER FOR  
DISCUSSION PRIOR TO LAYOUT AND CONSTRUCTION.

THE SITE PLAN REPRESENTS GENERAL LOCATION OF  
IMPROVEMENTS. IT SHALL BE THE GENERAL CONTRACTOR'S  
RESPONSIBILITY TO LOCATE ALL IMPROVEMENTS ON SITE PRIOR  
TO ALTERATION, ADDITION OR TIE-IN. ALL DAMAGE SHALL BE  
PROPERLY REPAIRED BY THE GENERAL CONTRACTOR, AT THE  
CONTRACTOR'S EXPENSE.

FINE GRADING AND SEEDING SHALL EXTEND OVER THE SITE IN  
AREAS  
DISTURBED BY  
CONSTRUCTION.

ALL MATERIALS SHALL BE NEW EXCEPT WHERE OTHERWISE  
NOTED AND SHALL CONFORM WITH THE STANDARDS OF  
UNDERWRITER'S LABORATORY IN EVERY CASE WHERE SUCH A  
STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE  
OF

THE CONTRACTOR SHALL OBTAIN IN PAY ALL NECESSARY  
PERMITS AND AFTER COMPLETION, FURNISH OWNER  
CERTIFICATIONS OF FINAL INSPECTIONS AND APPROVAL AS  
ISSUED BY THE INSPECTION DEPARTMENT OF THE CITY IN WHICH  
BUILDING  
IS

ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST  
STANDARDS OF THE N.E.C. THE TESTS SHALL BE MADE IN THE  
PRESENCE OF THE OWNER  
OR HIS

RECORDS SHALL COMPLY WITH NFPA AND NATIONAL  
ELECTRICAL CODE AND BE PERFORMED BY AN LICENSED  
ELECTRICIAN.

ALL WORK IS TO HAVE A ONE YEAR WARRANTY, MINIMUM AND AS  
SPECIFIED.

ALL HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE  
WITH NFPA AND SHALL PROVIDE REQUIRED SMOKE DETECTION  
DEVICES. SYSTEMS SHALL BE INSTALLED BY LICENSED HVAC  
CONTRACTOR.

ALL EXPOSED ALUMINUM PIECES/PARTS TO BE PREFINSHED IN A  
MATCHING COLOR TO BE SELECTED BY ARCHITECT. COATING TYPE  
SHALL BE  
AS

THE STORAGE OF MATERIALS ON SITE SHALL BE ALLOWED ON  
DESIGNATED AREAS. STAGING WILL BE ALLOWED ON LAWN OR  
GARDEN AREAS. HOWEVER ANY DAMAGE TO LAWN SURFACES  
AND GARDEN/LANDSCAPE AREAS SHALL REQUIRE RESTORATION  
TO ORIGINAL CONDITION BY GENERAL CONTRACTOR AT NO COST  
TO OWNER.

CONTRACTOR IS TO COORDINATE ALL WORK SCHEDULES WITH  
OWNER AND USERS. ACCESS INTO BUILDING SHALL NOT BE  
INTERRUPTED UNLESS OWNER AND USER APPROVAL HAS BEEN  
OBTAINED.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT,  
THE OWNER REPRESENTS THAT HE HAS REVIEWED AND  
APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION  
DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE  
CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE,  
FAMILIARZIED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED  
FIELD DIMENSIONS AND RELATED HIS OBSERVATIONS WITH  
REQUIREMENTS OF THE CONTRACT DOCUMENTS PRIOR TO  
BIDDING.

DO NOT SCALE DRAWINGS.

NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR  
CONFLICTS ON THESE DRAWINGS OR BETWEEN DRAWINGS AND  
ACTUALY FIELD CONDITIONS PRIOR TO BEGINING ANY WORK  
INVOLVING THE AREAS OF CONFLICT.

CONTRACTOR SHALL COORDINATE ALL DISRUPTIVE WORK WITH  
THE OWNER. DISRUPTIVE WORK TO BE PERFORMED AFTER

Drawing Index

Project  
Description

THIS PROJECT CONSIST OF A NEW CONSTRUCTION TIRE SALES BUSINESS

GENERAL NOTE:

ALWAYS REFER TO ALL FIRE MARSHALL CAUTIONARY NOTES AND REVIEW  
LETTERS FOR ANY  
FINAL CHANGES THAT MAY NOT HAVE BEEN PUT INTO DRAWING AFTER  
FINAL REVIEW OF PLAN FROM THE FIREMARSHALL.

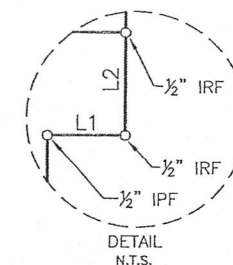


WARREN L. DIETZ JR. P.E.

Commerical  
Planners

Covington, LA  
70433





|      |             |       |
|------|-------------|-------|
| LINE | TABLE       |       |
| L1   | N14°30'00"W | 2.83' |
| L2   | S75°32'48"W | 8.00' |

## APPROVALS

MAYOR OF THE CITY OF PONCHATOULA DA

BUILDING OFFICIAL \_\_\_\_\_ DA \_\_\_\_\_

|                 |     |
|-----------------|-----|
| ZONING CHAIRMAN | DA2 |
|-----------------|-----|

This is to certify that I have done an actual ground survey and found that no encroachments exist either way across any property lines except as shown.

**0.34 ACRES**

**0.29 ACRES**

**RESUBDIVISION MAP OF  
A PORTION OF SQUARE 91 AND LOT "A" INTO  
0.29, 0.34, 0.39 & 0.95 ACRE PARCELS**

City of Ponchatoula  
Tangipahoa Parish, Louisiana  
for  
**J.A.M.B. BUILDING & DEVELOPMENT**

Note: This is to certify that I have consulted the Federal Insurance Administration Flood Hazard Boundary Maps and found the property described is located in Flood Zone(s) "X" with a Base Flood Elevation of N/A in accordance with Community Panel No. 220211 0005 D  
Revised: JULY 21, 1999

Survey No. 2006 593 RS  
Date: MAY 30, 2006

Drawn by: SPH  
Revised:

Scale: 1" = 40'

**JOHN E. BONNEAU & ASSOCIATES, INC.**  
Professional Land Surveyors • Planners and Consultants

1011 N. CAUSEWAY BLVD.—SUITE 34 • MANDEVILLE, LA. 70471 (985)626-0808

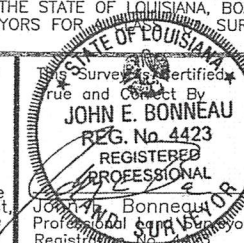
SLIDELL (985)643-2508 • MANDEVILLE (985)626-3546 • N.O. (504)456-2042

HAMMOND (985)345-7641 • FAX NO. (985)626-0057 • E-mail: jebco1@bellsouth.net

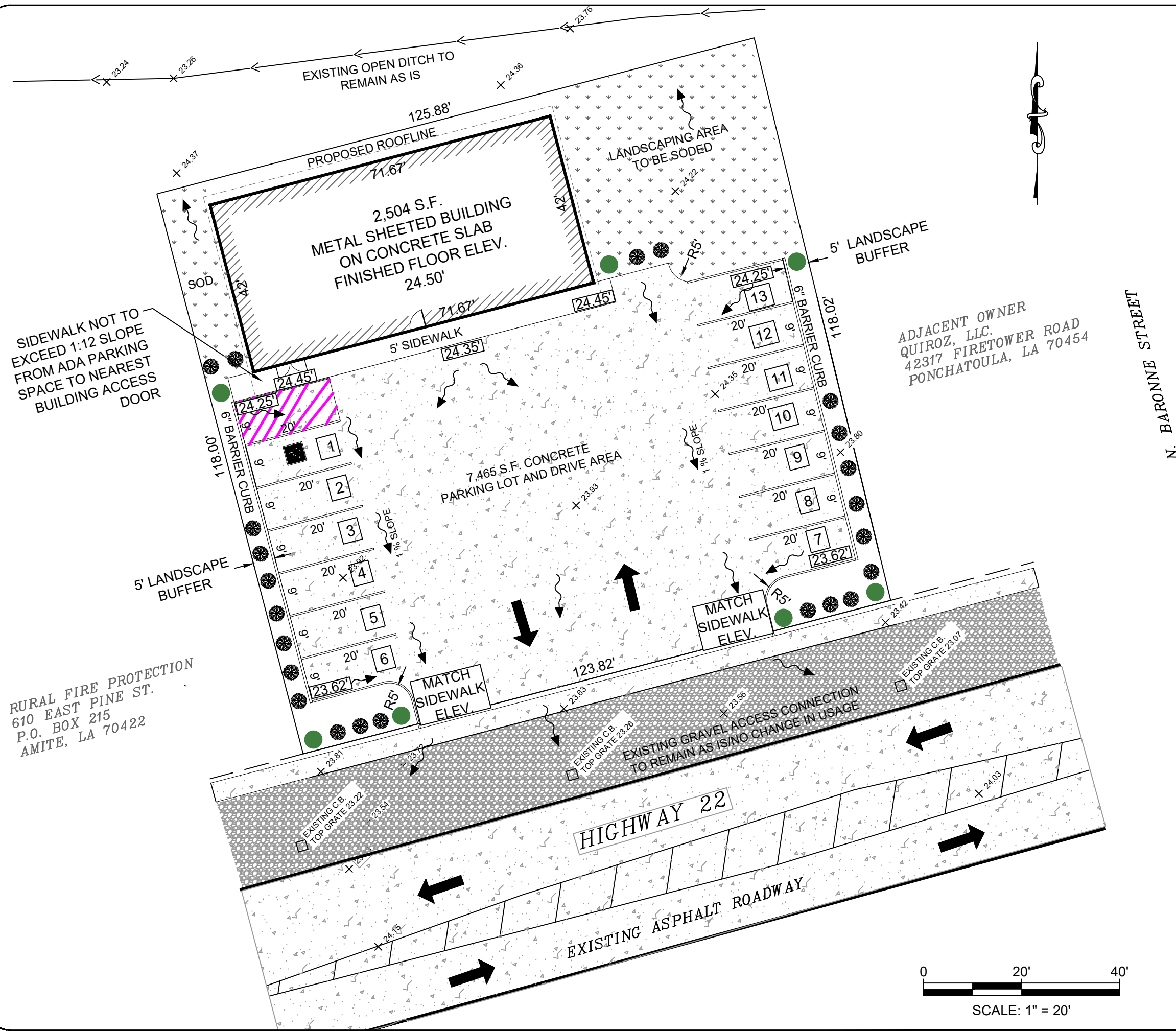
THIS IS TO CERTIFY THAT THIS SURVEY WAS DONE UNDER MY DIRECT SUPERVISION AND CONTROL; AND THAT THE SURVEY WAS DONE ON THE GROUND AND IS IN ACCORDANCE WITH THE "MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE STATE OF LOUISIANA, BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR GENERAL SURVEY.

NOTE: Setback lines shall be verified by owner and/or contractor prior to any construction, as an abstract has not been performed by the undersigned.

NOTE: Servitudes shown hereon are not necessarily exclusive. Servitudes of record as shown on title opinion or title policy will be added hereto upon request as surveyor has not performed any title search or abstract.







GENERAL DEVELOPMENT INFORMATION:  
 TYPE OF PROJECT: COMMERCIAL RENOVATION  
 NAME OF PROJECT: DEVIER TIRE  
 NAME OF OWNER: DEVIER ENTERPRISES, LLC.-THAD DEVIER  
 SITE ADDRESS: 656 EAST PINE STREET  
 PONCHATOULA, LOUISIANA  
 TANGIPAHOO PARISH  
 0.34 ACRES  
 TOTAL ACRES: 1  
 TOTAL BUILDINGS: 1  
 STREET NAME:  
 FLOOD ZONE: "X"  
 CITY OF PONCHY ZONING: "C2"

- GENERAL NOTES:
- THIS PLAN IS NOT A BOUNDARY SURVEY AND IS FOR ENGINEERING PURPOSES ONLY. THE BOUNDARY REFERENCED IN THE PLAN WAS SURVEYED BY JOHN E. BONNEAU L.A. P.L.S. 4423, DATED 05-30-2006.
  - ELEVATIONS REFERENCE NAVD. 88 ELEVATION DATUM.
  - REFERENCE BEARING - C4G NET - LA SOUTH ZONE.
  - CONTRACTOR TO BUILD A 2,504 S.F. TIRE SHOP ON CONCRETE SLAB FOUNDATION. EXISTING SLAB MAY BE USED IF PROPER STEEL REINFORCEMENT IS FOUND PRESENT. ENGINEER DOES NOT TAKE LIABILITY FOR EXISTING FOUNDATION AND HAS NOT BEEN RETAINED TO INSPECT CURRENT CONDITIONS.
  - FINISHED FLOOR ELEVATION OF PROPOSED TIRE SHOP TO BE 24.50'
  - SITE RESIDES IN FLOOD ZONE "X". NO BFE ASSIGNED.

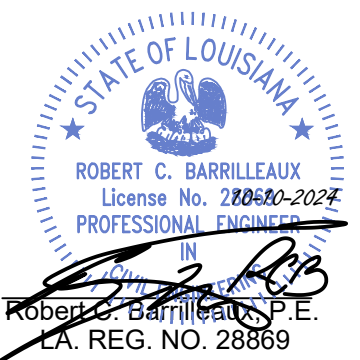
- DRAINAGE NOTES:
- SITE IS 90% IMPERVIOUS IN ITS CURRENT STATE AS PRIOR OCCUPANCY WAS A PIANO SHOP.
  - (3)-THREE EXISTING CATCH BASINS WERE FOUND ALONG THE NORTH SIDE OF PINE ST. FRONTING SUBJECT PROPERTY.
  - AN EXISTING SWALE WAS FOUND ALONG THE NORTHERN EDGE OF EXISTING SLAB.
  - BACK HALF OF PROPOSED BUILDING TO DRAIN INTO THE EXISTING SWALE ALONG THE NORTHERN BOUNDARY LINE.
  - FRONT HALF AND ENTIRE PARKING AREA TO DRAIN INTO THE EXISTING CATCH BASINS ALONG THE NORTHERN SIDE OF HIGHWAY 22.

LEGEND

- Boundary Line
- Setback lines
- Centerline Existing Ditch
- Centerline Road
- Easement Lines
- Overland Flow Arrow
- Existing Elevations
- Proposed Spot Elevations
- Tree-Crepe Myrtle, Japanese Maple (or like)
- Shrubs (Azalea, Gardenia, Aztec Grass etc.)
- Sod - Grass to be seeded and fertilized.

SIGNATURE AND DATE:

CITY OF PONCHATOULA BUILDING OFFICIAL



Robert Barrilleaux & Associates, Inc.  
 Engineers - Environmental Consultants  
 42333 Dora Plaza Suite 6  
 Hammond, LA  
 Ph: (985) 542-0391  
 Fax: (985) 542-6516  
 Engineer - Robert C. Barrilleaux, PE # 28869

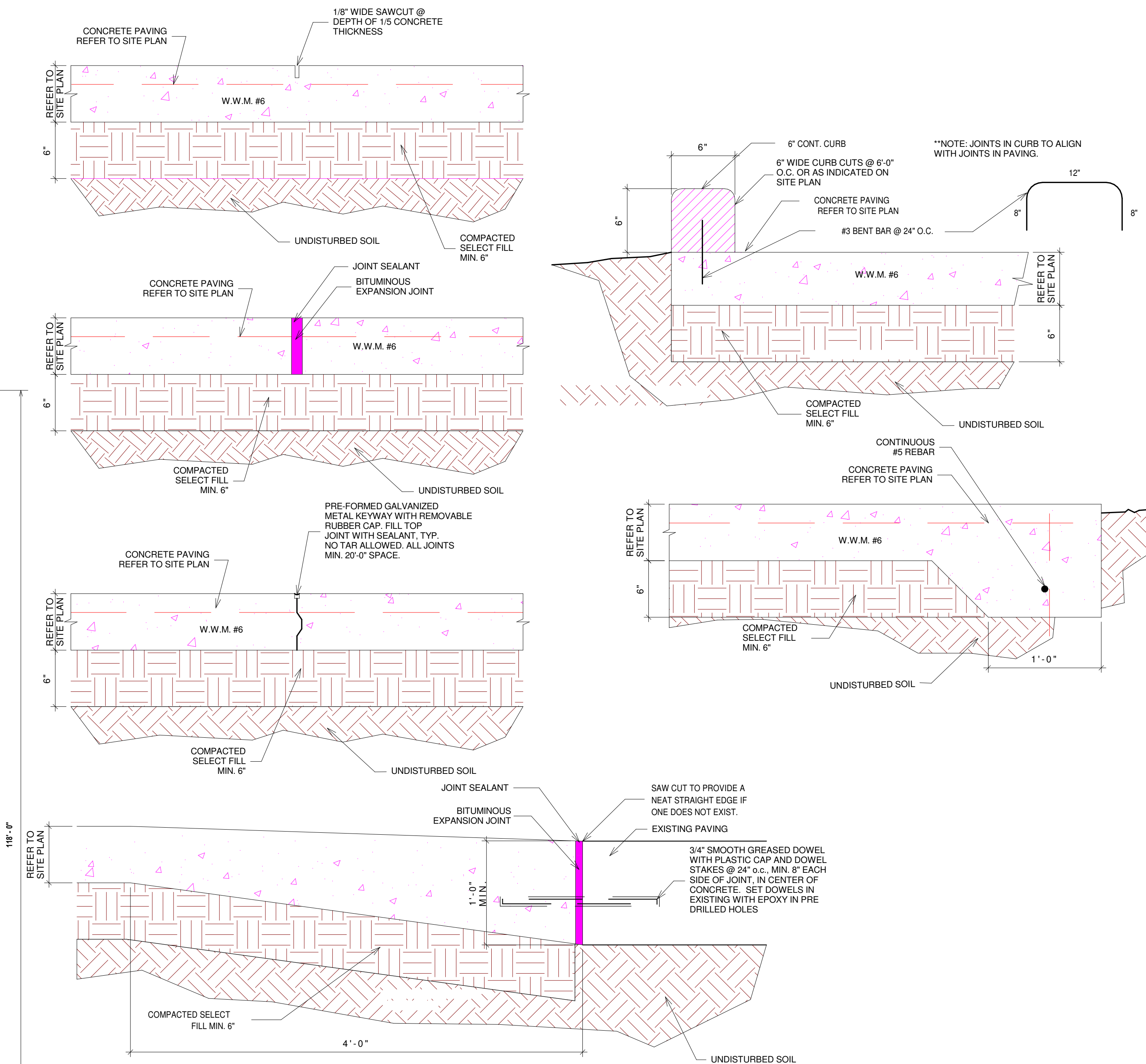
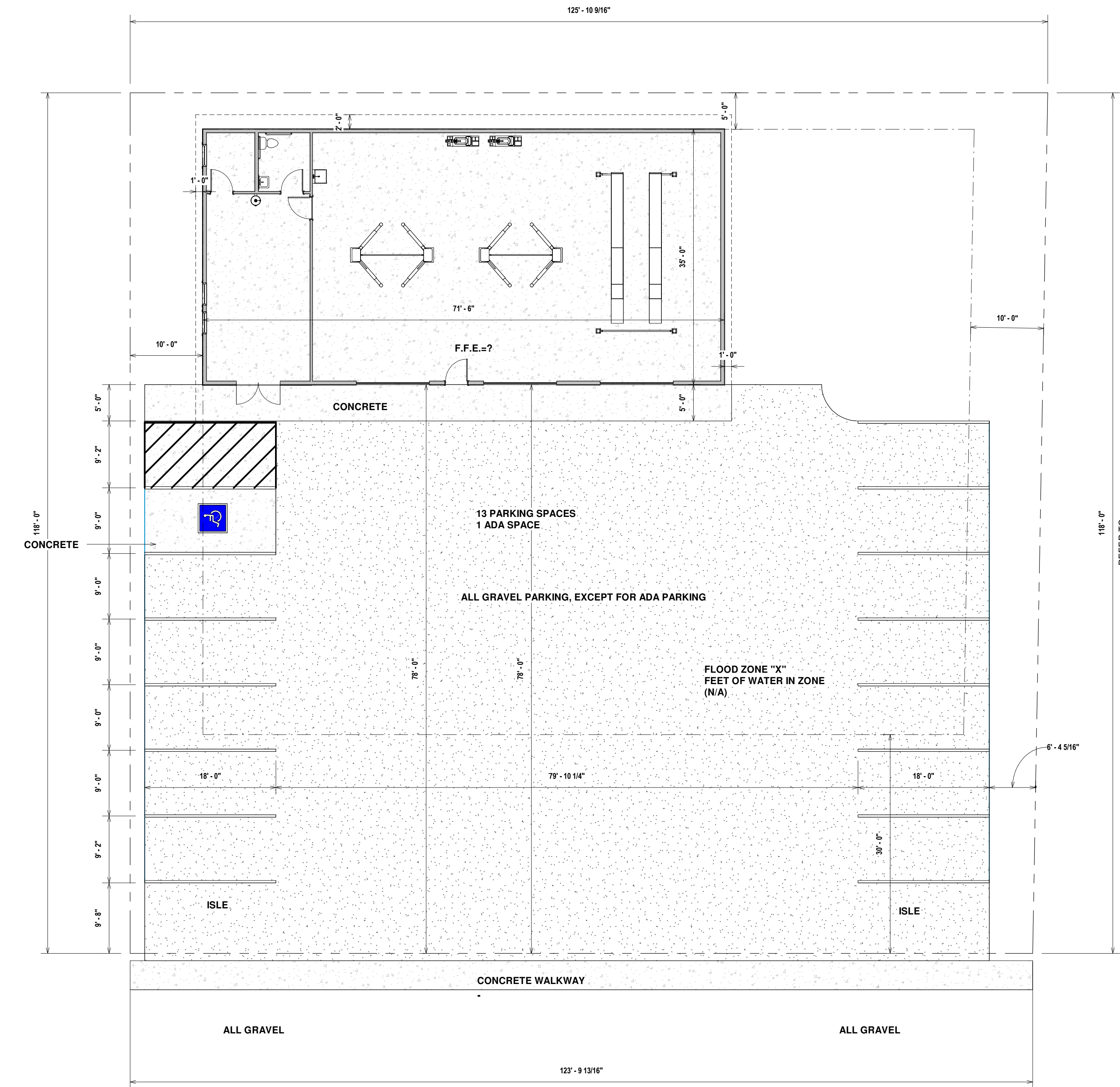


| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
|     |             |      |    |
|     |             |      |    |
|     |             |      |    |
|     |             |      |    |

DEVIER TIRE  
 DEVIER ENTERPRISES, LLC.  
 656 EAST PINE STREET  
 CITY OF PONCHATOULA, LOUISIANA  
 DRAINAGE & LANDSCAPE PLAN

|           |            |
|-----------|------------|
| DRAWN BY: | R.K.L.     |
| DATE:     | 10-15-2024 |
| SCALE:    | 1" = 30'   |
| SHEET NO: | 1          |





#### GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- NOTIFY OWNER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS ON THESE DRAWINGS OR BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO BEGINNING ANY WORK INVOLVING THE AREAS OF CONFLICT.
- CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE ANY CONFLICTS WITH OWNER PRIOR TO FORMING.
- TRASH AND DEBRIS SHALL BE HAULED OFF SITE. CONTRACTOR SHALL KEEP THE SITE CLEAN AND SAFE DURING ENTIRE CONSTRUCTION PERIOD. NO TRASH OR DEBRIS SHALL BE ALLOWED TO BE BURIED ON SITE.
- NO EXCAVATION OR DEMOLITION SHALL TAKE PLACE WITHOUT FIRST ASCERTAINING THE LOCATION OF UNDERGROUND UTILITIES BY SERVING TELEPHONE NOTICE TO A REGIONAL NOTIFICATION PROGRAM IN ACCORDANCE WITH LRS 40:1749.14. IN LOUISIANA, "LOUISIANA ONE CALL" MAY BE REACHED AT 1-800-684-4274.
- REMOVE A MINIMUM OF 6" OF EXISTING SOIL BELOW ANY NEW CONCRETE. ADD COMPACTED SELECT FILL UNDER ALL CONCRETE AS NEEDED TO OBTAIN FINISH ELEVATIONS INDICATED. STORE EXCAVATED SOIL ON SITE FOR USE IN FINE GRADING.
- CONTOUR LINES INDICATING EXISTING GRADE ELEVATIONS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES IN FIELD PRIOR TO BIDDING OR CONSTRUCTION.
- SIDEWALKS ARE TO HAVE A MAXIMUM SLOPE OF 1:20 IN DIRECTION OF TRAVEL EXCEPT AT INDICATED CURB RAMP AND A CROSS SLOPE OF 1:50 MAXIMUM.
- THERE IS NO OFF SITE FLOW OR CHANNELIZED CONVEYANCE THAT CROSSES THIS PROPERTY PRIOR TO THE DEVELOPMENT OF THE PROPERTY.
- PROPERTY LIES IN FLOOD ZONE B&C.
- ALL RUN OFF WATER FROM ROOF SURFACE WILL DRAIN INTO THE PARKING LOT.
- 4.1.3(16) PERMANENT SIGNAGE SHALL COMPLY WITH 4.30.

**A1** PLOT PLAN  
1" = 10'-0"

LA. HWY. 22

| FLAT WORK |             |
|-----------|-------------|
| Area      | Description |
| 732 SF    | FLAT WORK   |
| 8311 SF   | FLAT WORK   |
| 495 SF    | FLAT WORK   |
| 9538 SF   |             |

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CIVIL ENGINEER  
Covington, LA  
985-809-8033

**DEVIER ENTERPRISES, LLC**  
**TIRE SHOP HWY 22- 656 EAST PINE**  
**PONCHATOULA, LA**



Drawn by JJB  
Checked by MKB

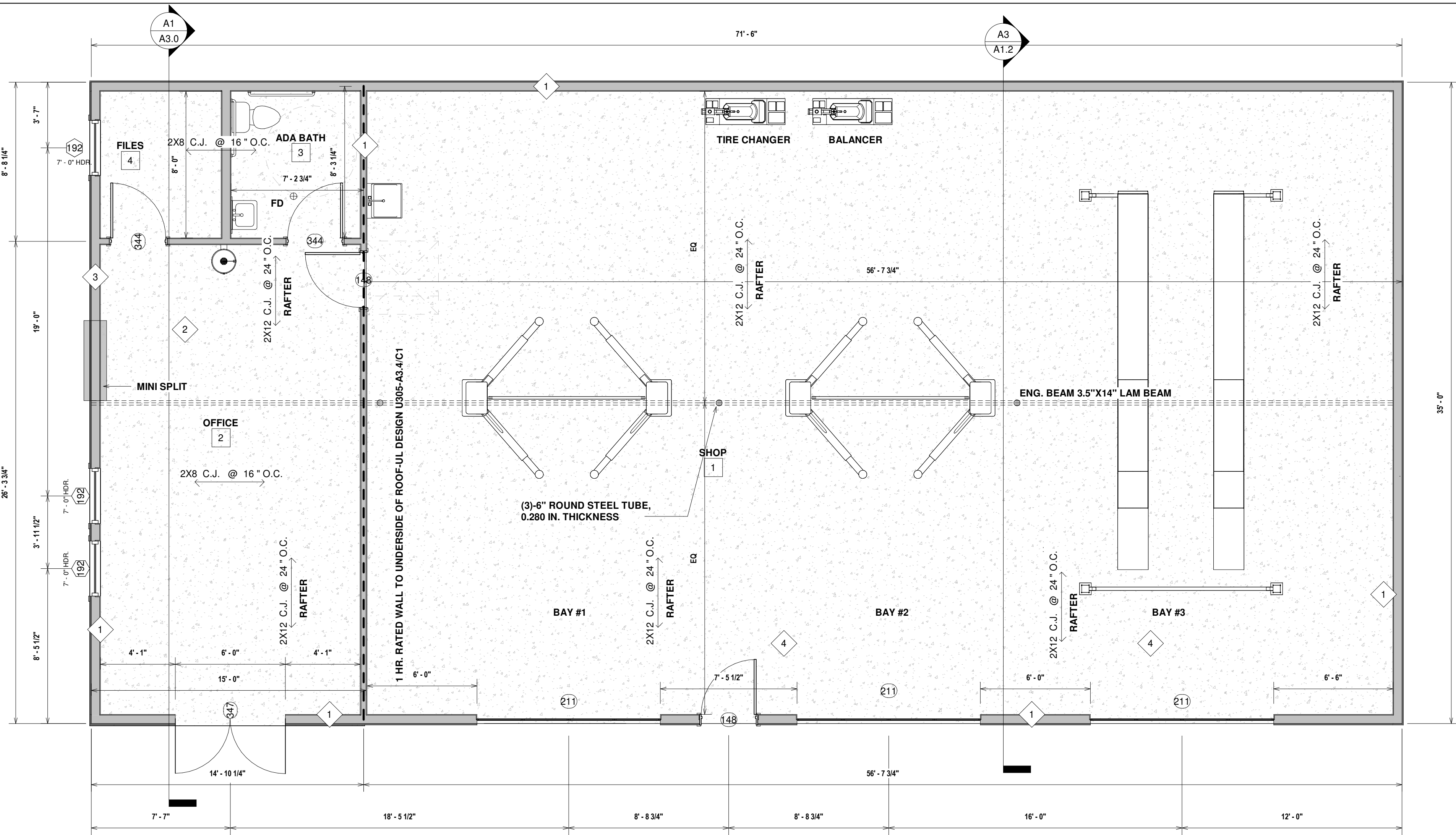
Project number DD-225C

Date 7/22/2024

SHEET

**A1.1**





| DOOR SCHEDULE |       |        |           |             |       |
|---------------|-------|--------|-----------|-------------|-------|
| Type Mark     | Width | Height | Thickness | Description | Count |

|     |          |          |             |   |   |
|-----|----------|----------|-------------|---|---|
| 148 | 3' - 0"  | 6' - 8"  | 0' - 1 3/8" | 45 MIN. SELF CLOSING DR. IN ACCORDANCE WITH SEC.8.7.1 WITHOUT WINDOWS | 2 |
| 211 | 10' - 0" | 12' - 0" |             | GARAGE DR. - 130 MPH RATED  | 3 |
| 344 | 3' - 0"  | 6' - 8"  | 0' - 1 3/8" | SOLID WD. DR.   | 2 |
| 347 | 6' - 0"  | 6' - 8"  |             | EXT. DBL GLAZED DR.   | 1 |

| Window Schedule |       |        |             |       |
|-----------------|-------|--------|-------------|-------|
| Type Mark       | Width | Height | Description | Count |

|     |         |         |                |   |
|-----|---------|---------|----------------|---|
| 192 | 3' - 0" | 6' - 0" | SEE ELEVATIONS | 3 |
|-----|---------|---------|----------------|---|

| Room Schedule |          |             |             |                |         |          |            |
|---------------|----------|-------------|-------------|----------------|---------|----------|------------|
| Rm #          | Name     | Wall Finish | Clg. Height | Ceiling Finish | Area    | Volume   | Perimeter  |
| 1             | SHOP     | NA          | OPEN        | NA             | 1903 SF | 19026 CF | 179' - 11" |
| 2             | OFFICE   | GYP. BD.    | 10'-0"      | GYP. BD.       | 364 SF  | 3641 CF  | 80' - 0"   |
| 3             | ADA BATH | GYP. BD.    | 10'-0"      | GYP. BD.       | 56 SF   | 563 CF   | 30' - 1"   |
| 4             | FILES    | GYP. BD.    | 10'-0"      | GYP. BD.       | 53 SF   | 527 CF   | 29' - 2"   |

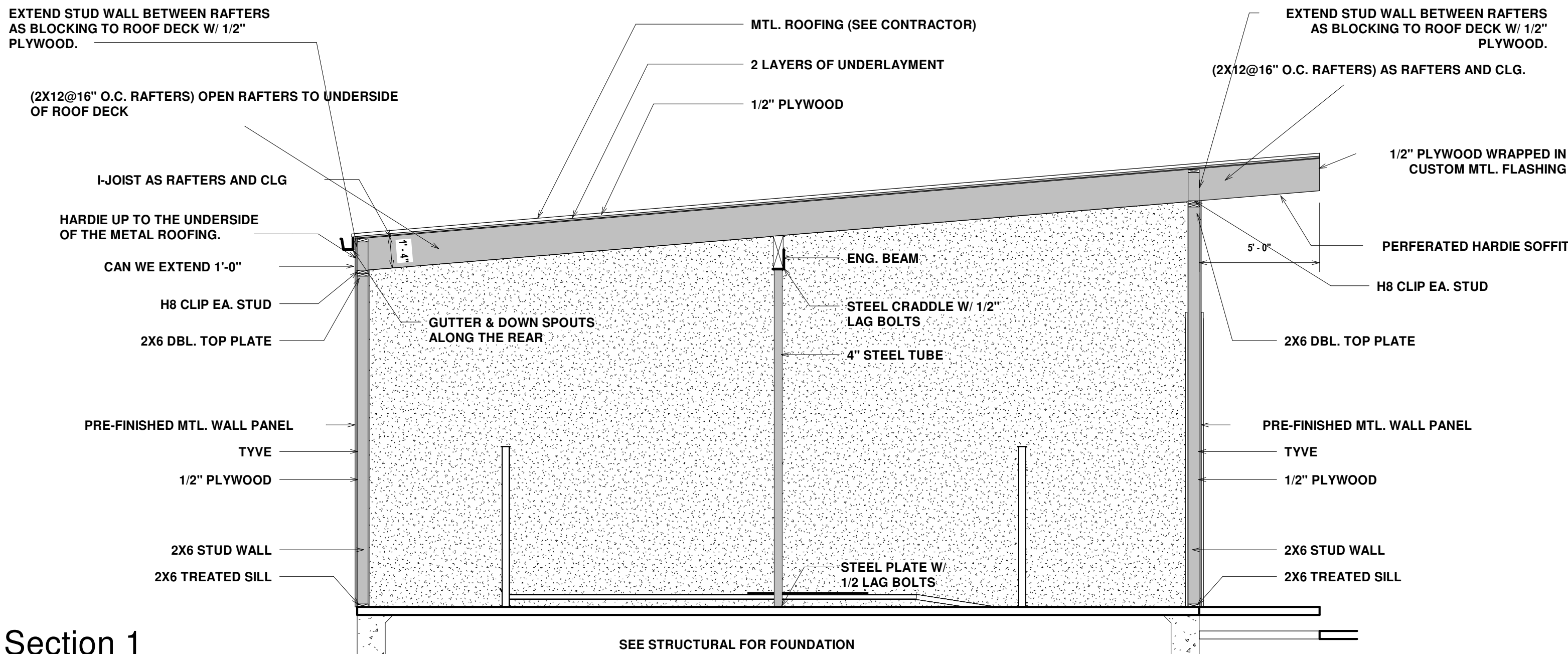
| SQ. FOOTAGE   |         |
|---------------|---------|
| Comments      | Area    |
| UNCONDITIONED |         |
| OFFICE        | 527 SF  |
| SHOP AREA     | 1978 SF |
| UNCONDITIONED | 2504 SF |
| Grand total   | 2504 SF |

## KEYNOTES

- EXTERIOR WALLS- OSB ON EXT AND INT TO MAKE SHEAR / X BRACING WALLS.
- 
- MINI SPLIT A/C
- DEMO EXISTING SLAB COMPLETELY

**A1** 1ST FLOOR  
1/4" = 1'-0"

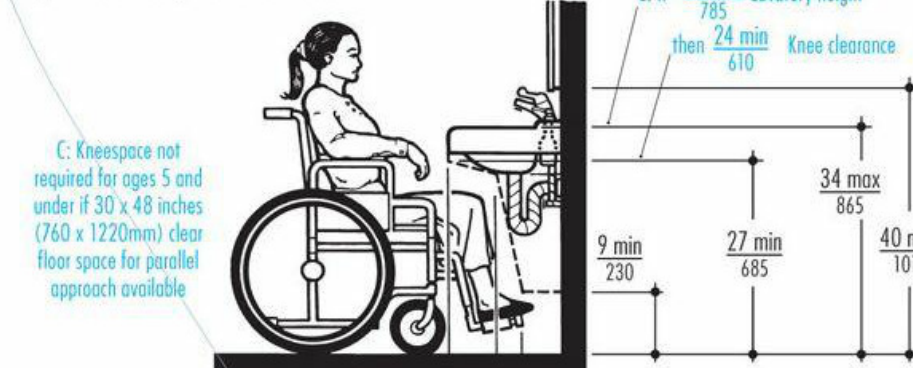
**A3** Section 1  
1/4" = 1'-0"



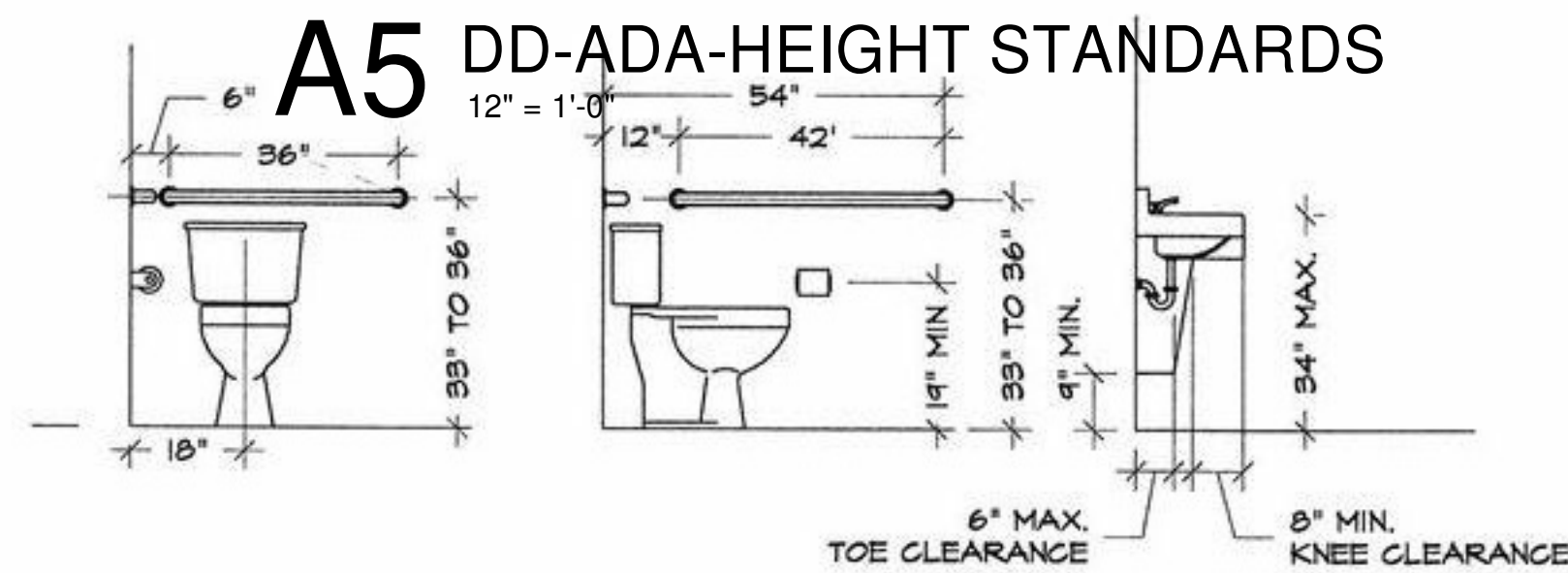
ADA HEIGHT STANDARDS  
SCALE: NO SCALE

Lavatory Clearances

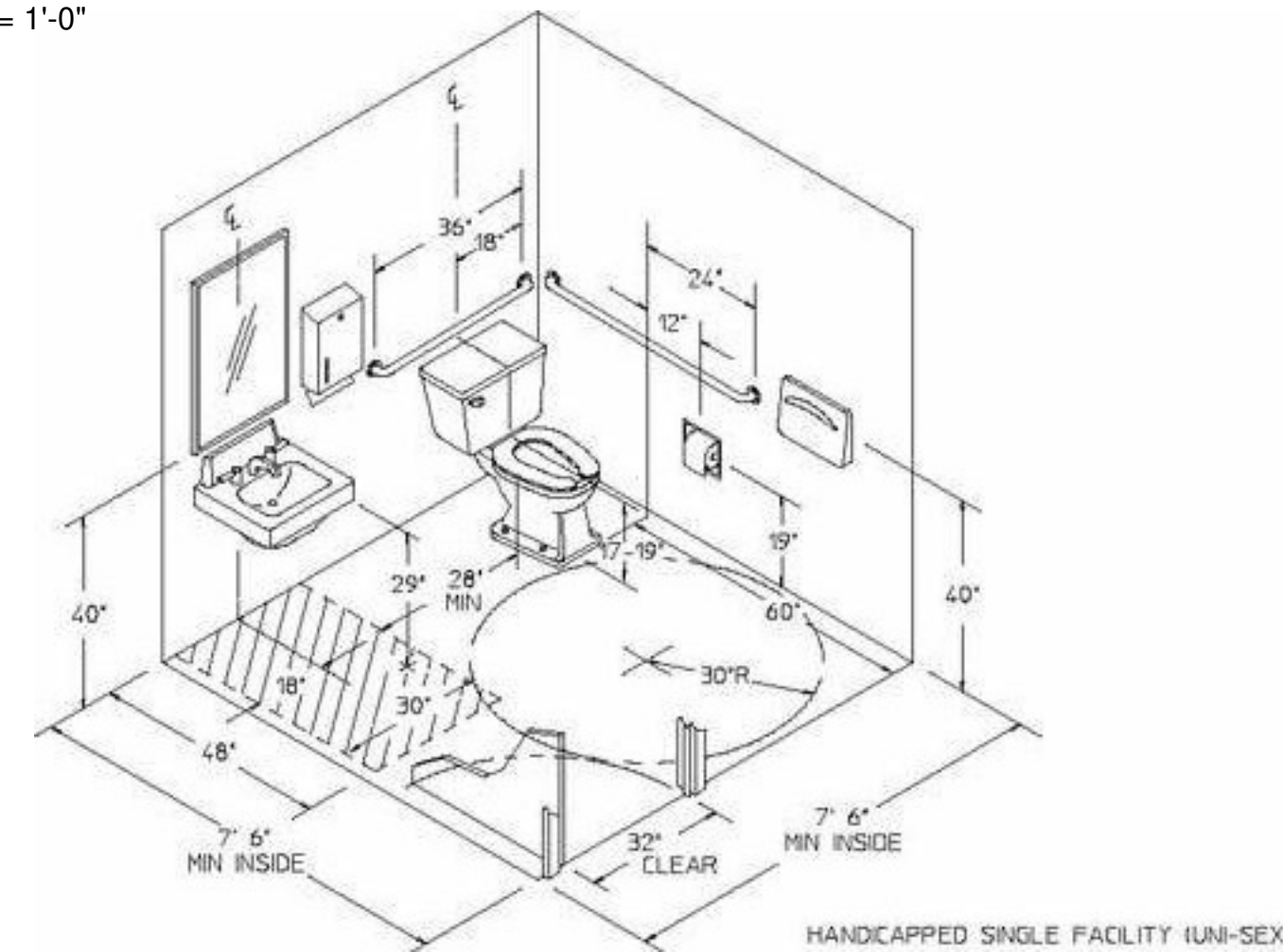
Fig. 4 Lavatory Clearances.



Toilets and Lavs



**C5** DD-ADA-TOILETS AND LAVS.  
12" = 1'-0"



**B5** ADA BATH ISOMETRIC  
12" = 1'-0"

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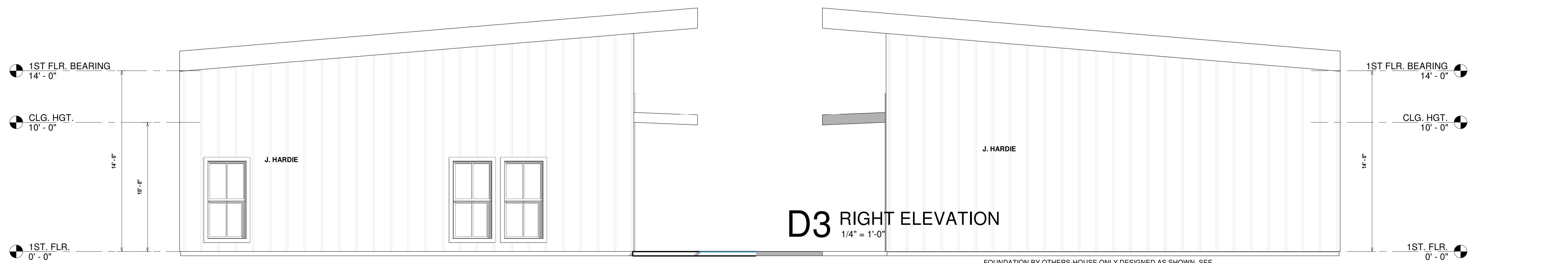
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SHEET

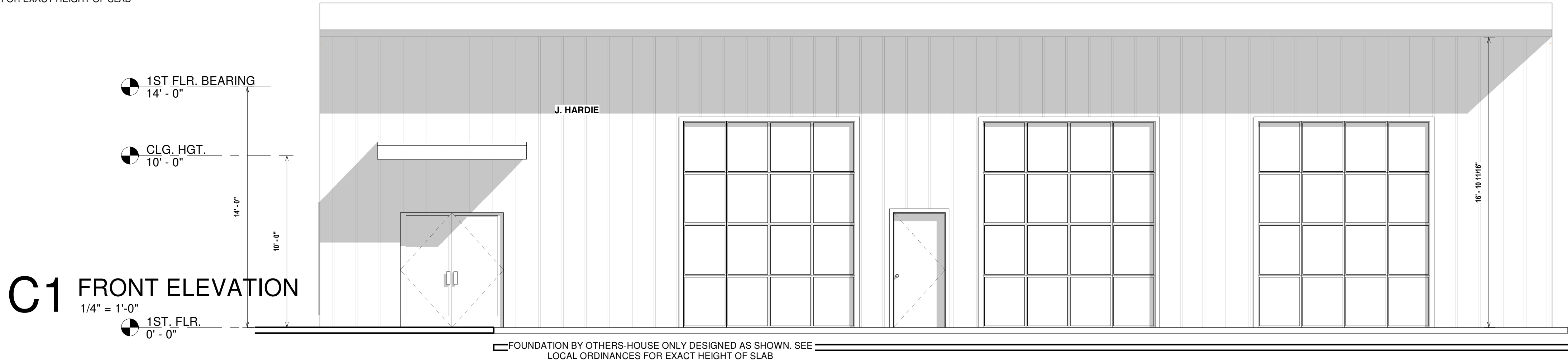
**A1.2**



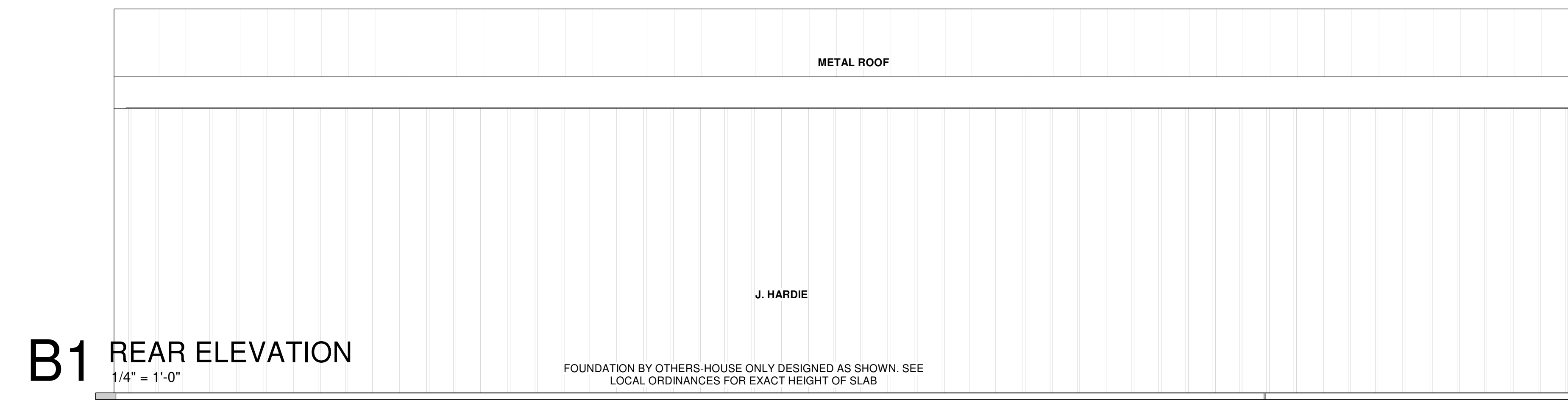


**D1 LEFT ELEVATION**  
1/4" = 1'-0"

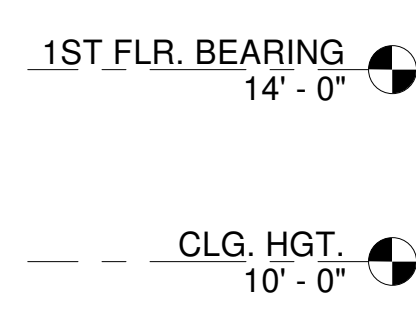
**D3 RIGHT ELEVATION**  
1/4" = 1'-0"



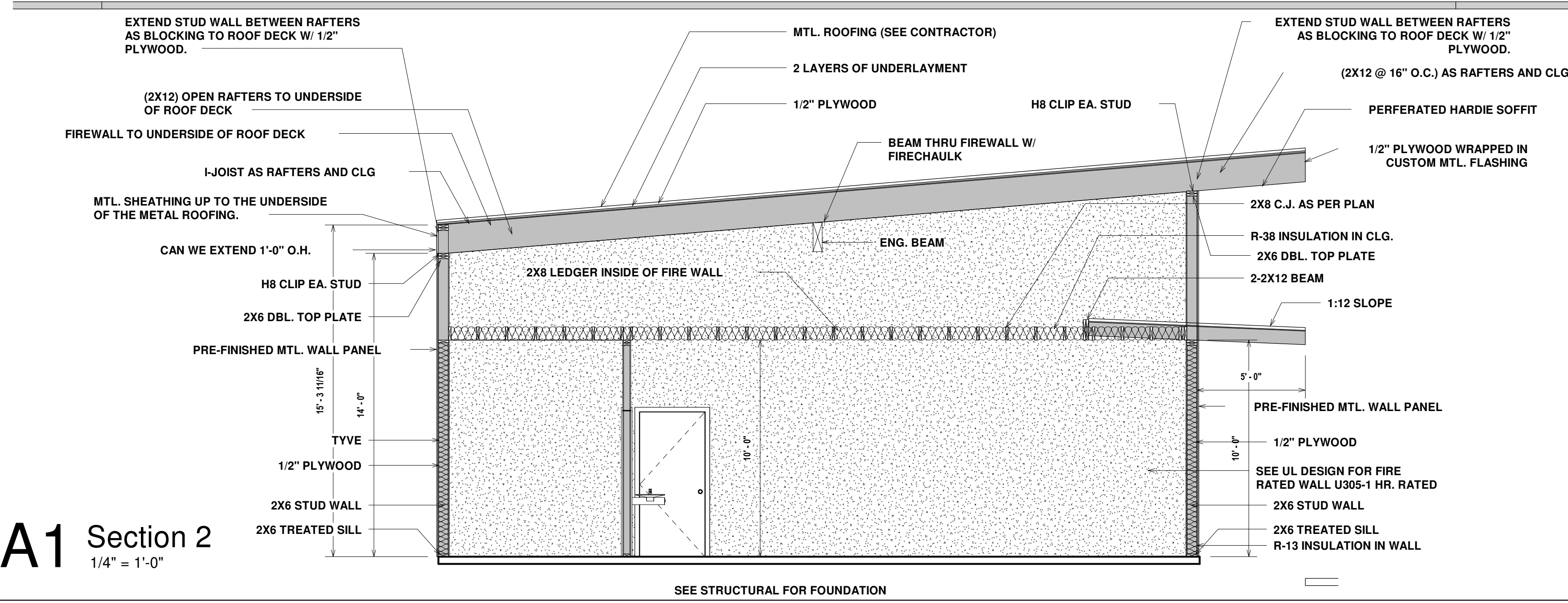
**C1 FRONT ELEVATION**  
1/4" = 1'-0"



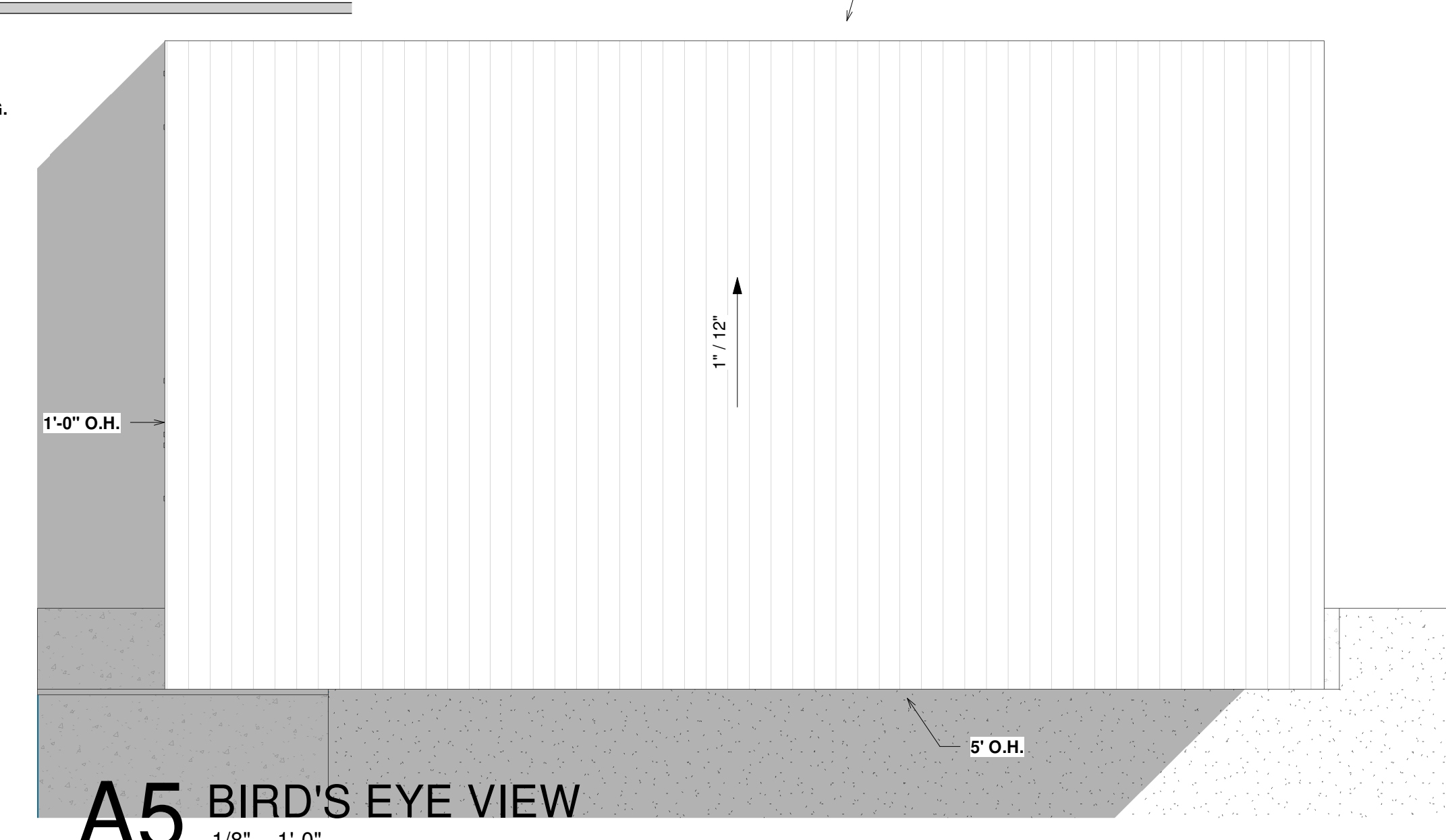
**B1 REAR ELEVATION**  
1/4" = 1'-0"



| Roof Schedule     |         |
|-------------------|---------|
| Type              | Area    |
| 2X6 STANDING SEAM | 2883 SF |
|                   | 2883 SF |
| 2X8 STANDING SEAM | 87 SF   |
|                   | 87 SF   |
|                   | 2970 SF |



**A1 Section 2**  
1/4" = 1'-0"



**A5 BIRD'S EYE VIEW**  
1/8" = 1'-0"

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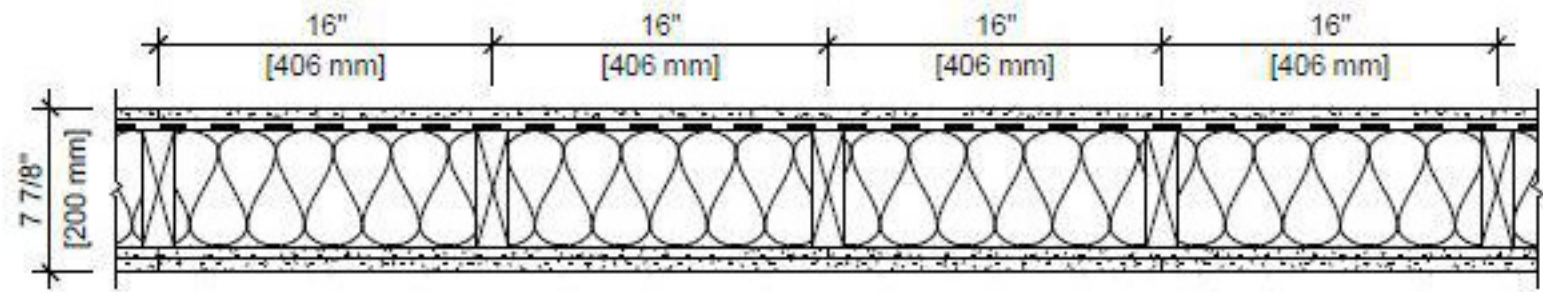
|                |            |
|----------------|------------|
| Drawn by       | Checked by |
| JJB            | MKB        |
| Project number | DD-225C    |
| Date           | 7/22/2024  |

SHEET  
**A3.0**



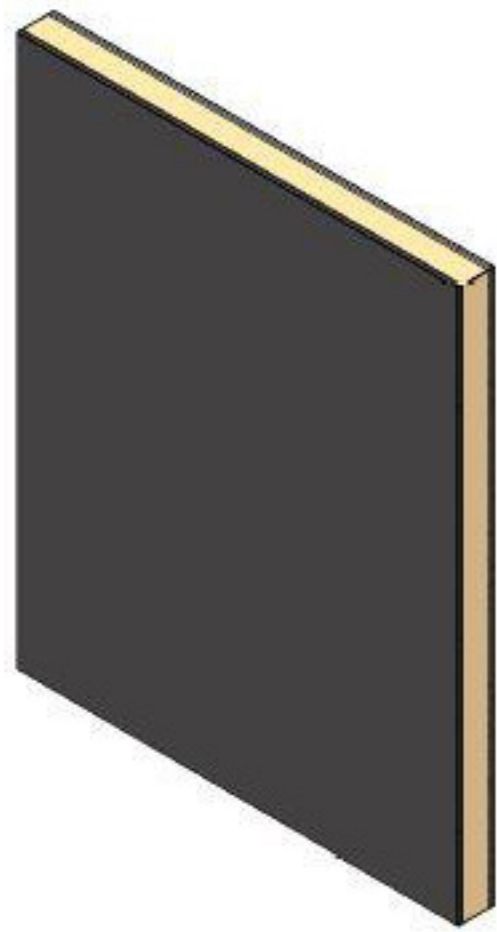
DESIGN NO. UL U305

FIRE RATING: 1 HOUR  
STC RATING: 53  
SOUND TEST: USG-161213  
SYSTEM THICKNESS: 7-7/8" [200 MM]  
LOCATION: INTERIOR  
FRAMING TYPE: WOOD STUD (LOAD-BEARING)



ASSEMBLY REQUIREMENTS:

GYPSUM PANELS: ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)  
RESILIENT CHANNEL: 1/2" [12.7 MM] RESILIENT CHANNEL, 25 GA. (0.016"), 24" [610 MM] O.C.  
WOOD STUDS: 2" X 8" [51 X 140 MM] WOOD STUDS, 16" [406 MM] O.C.  
INSULATION: 6-1/4" [159 MM] FIBERGLASS INSULATION  
GYPSUM PANELS: TWO LAYERS 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)



- GENERAL WALL NOTES:**
1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
  2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
  3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
  4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
  5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
  6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
  7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
  8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
  9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
  10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

ISSUE  
RECORD:  
Revision Date:

10/05/2021 11:55:19 PM

SHEET INFORMATION:

W-P-1-19

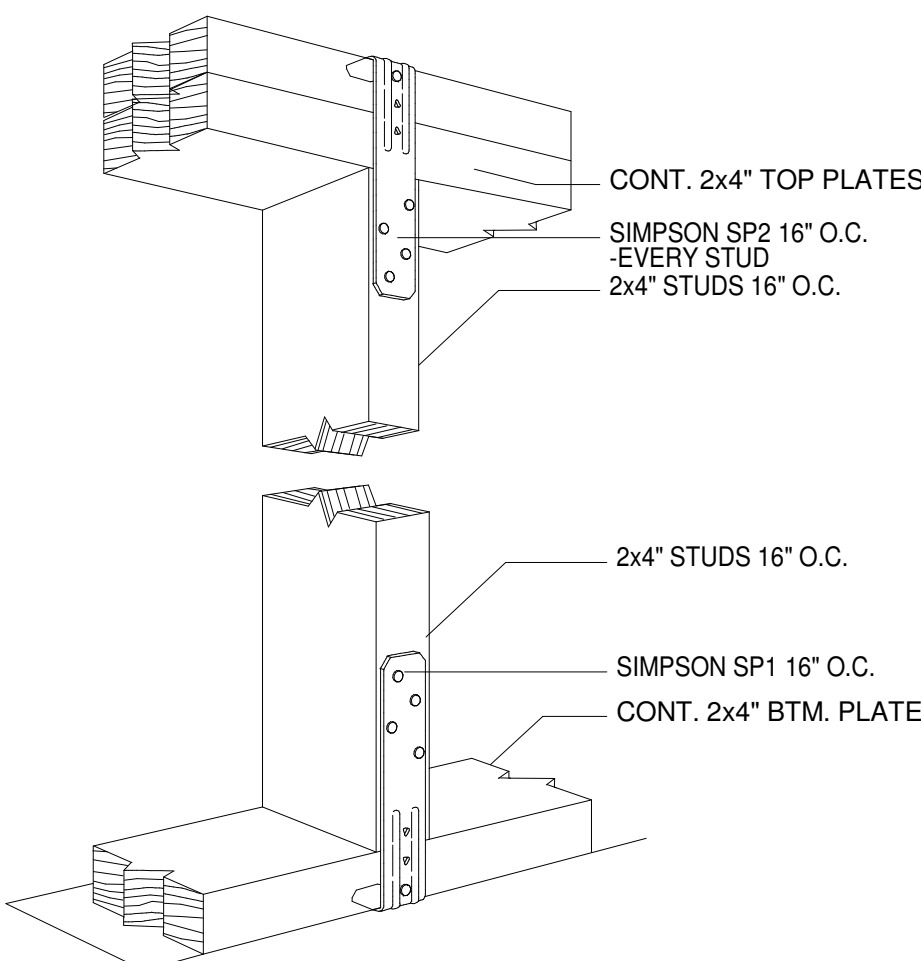
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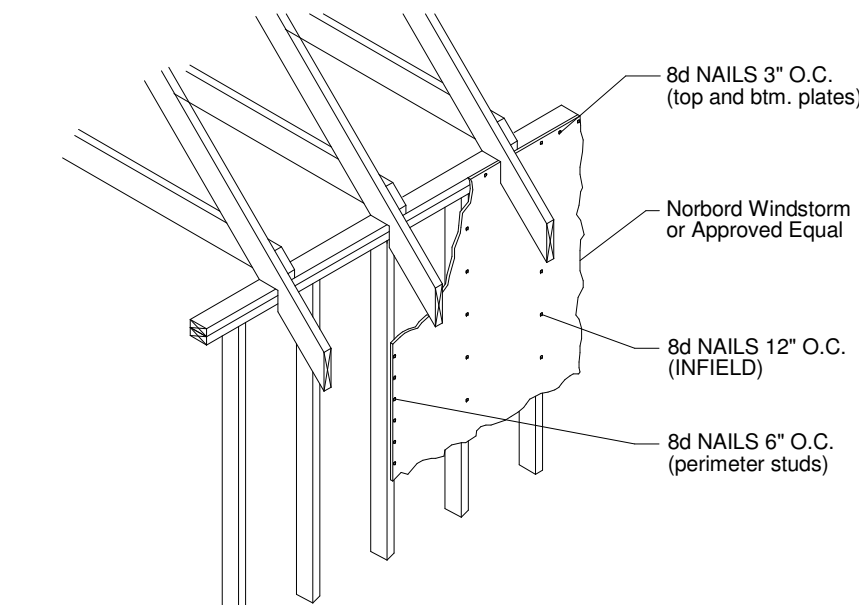
UL U305

C1 U305

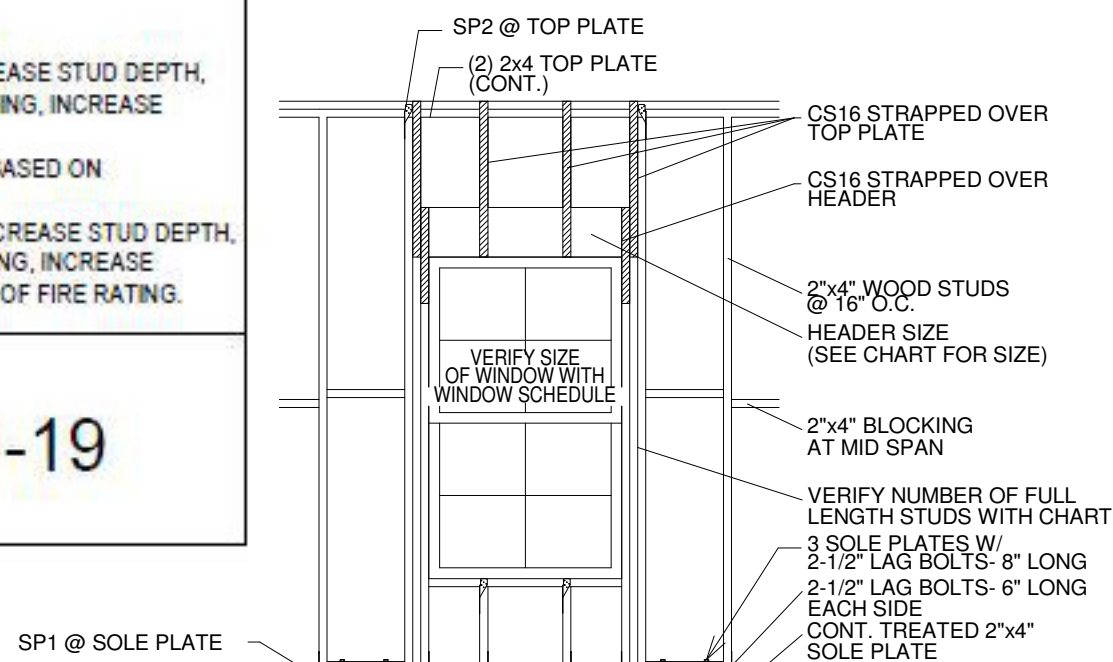
3/4" = 1'-0"



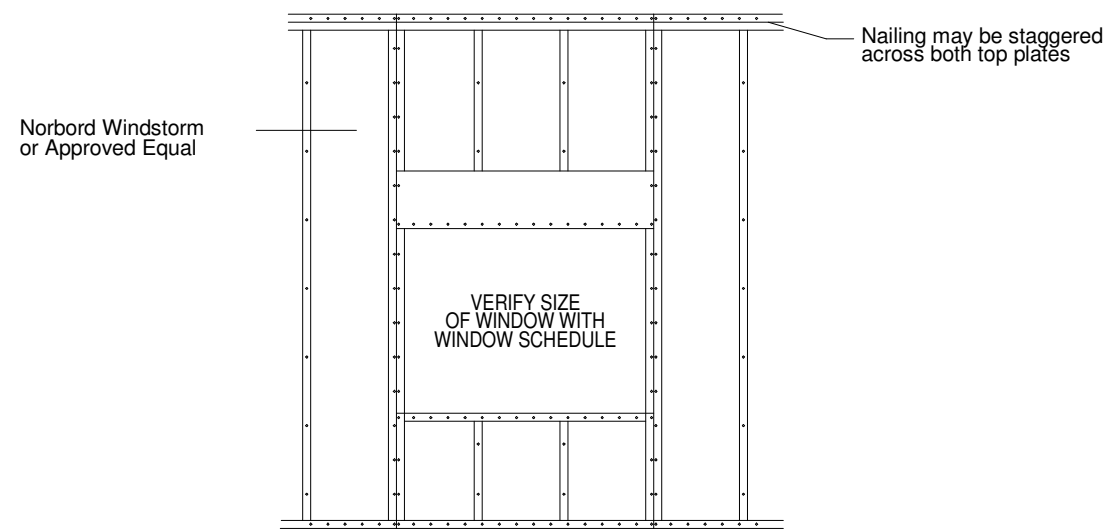
Typical Stud Strapping @ Top & Btm Pl.



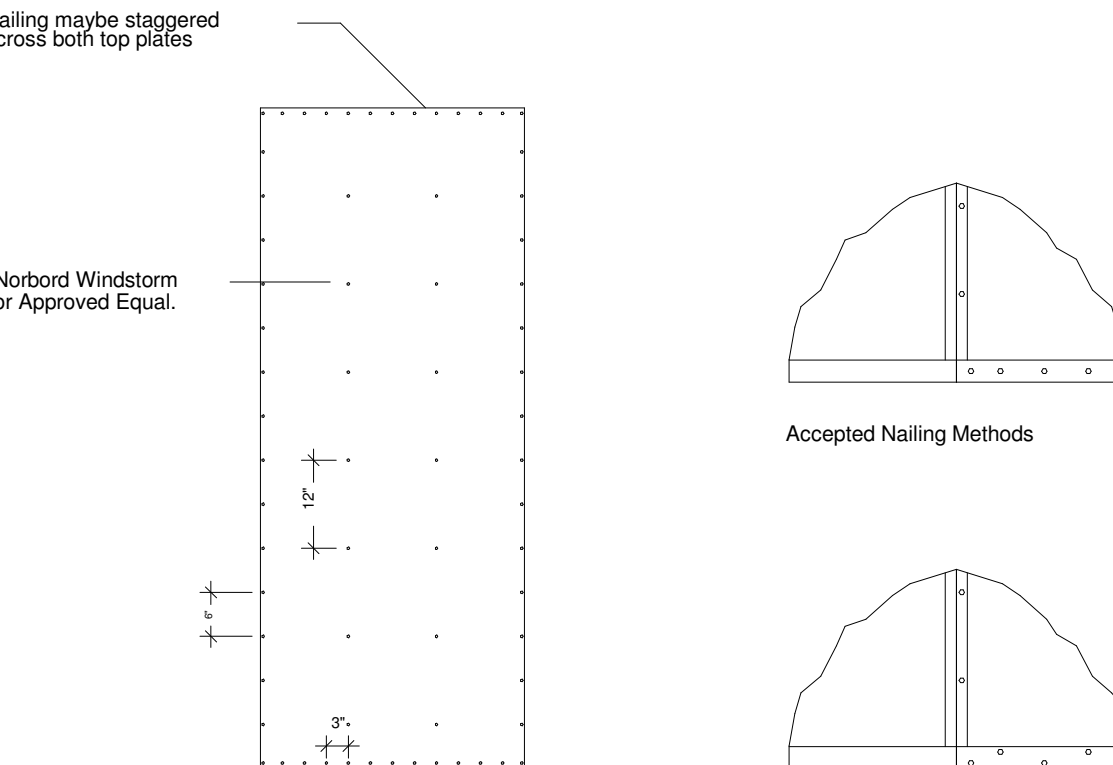
Typical Wall Sheathing Top Plate Detail



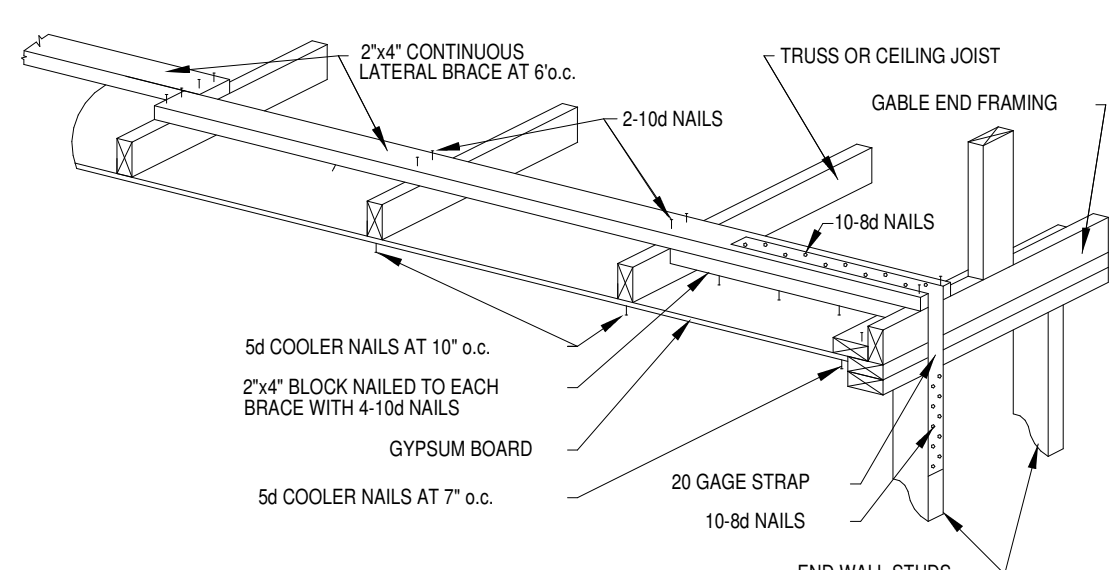
Typical Window Strapping Detail (Similar to Door Opening)



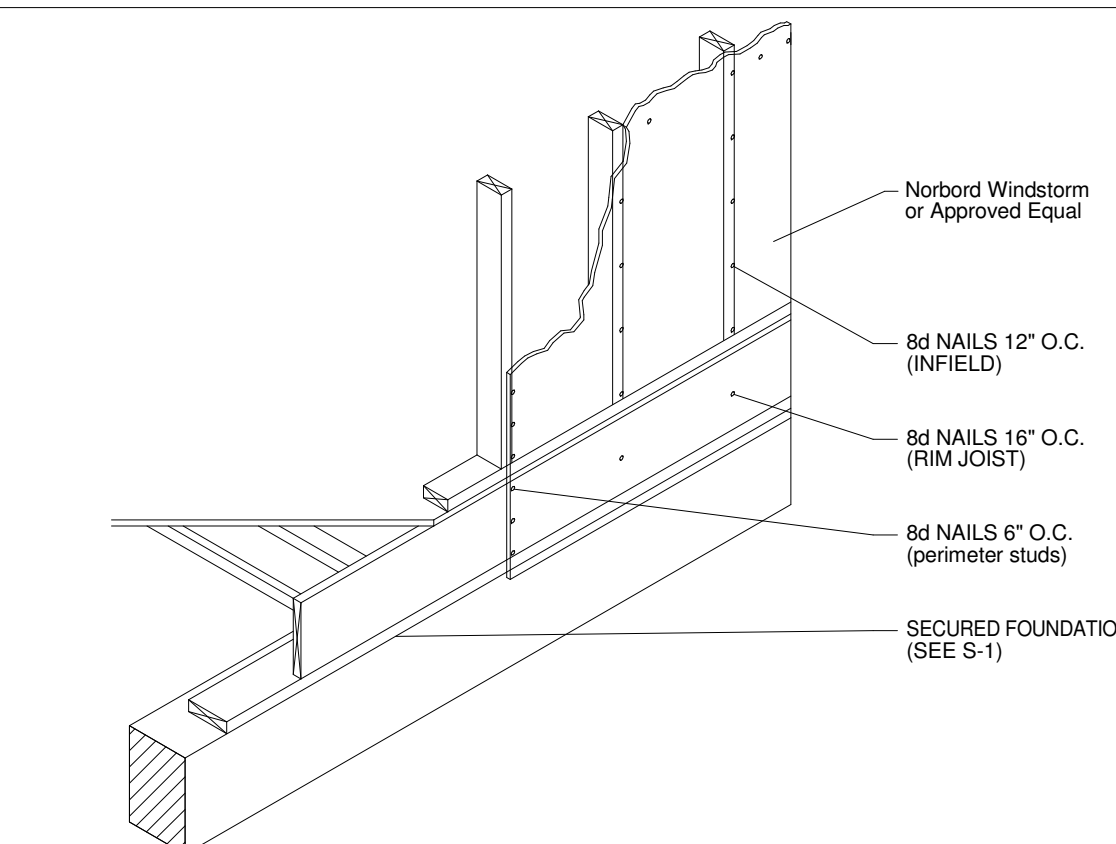
Typical Window Opening Detail (Similar to Door Opening)



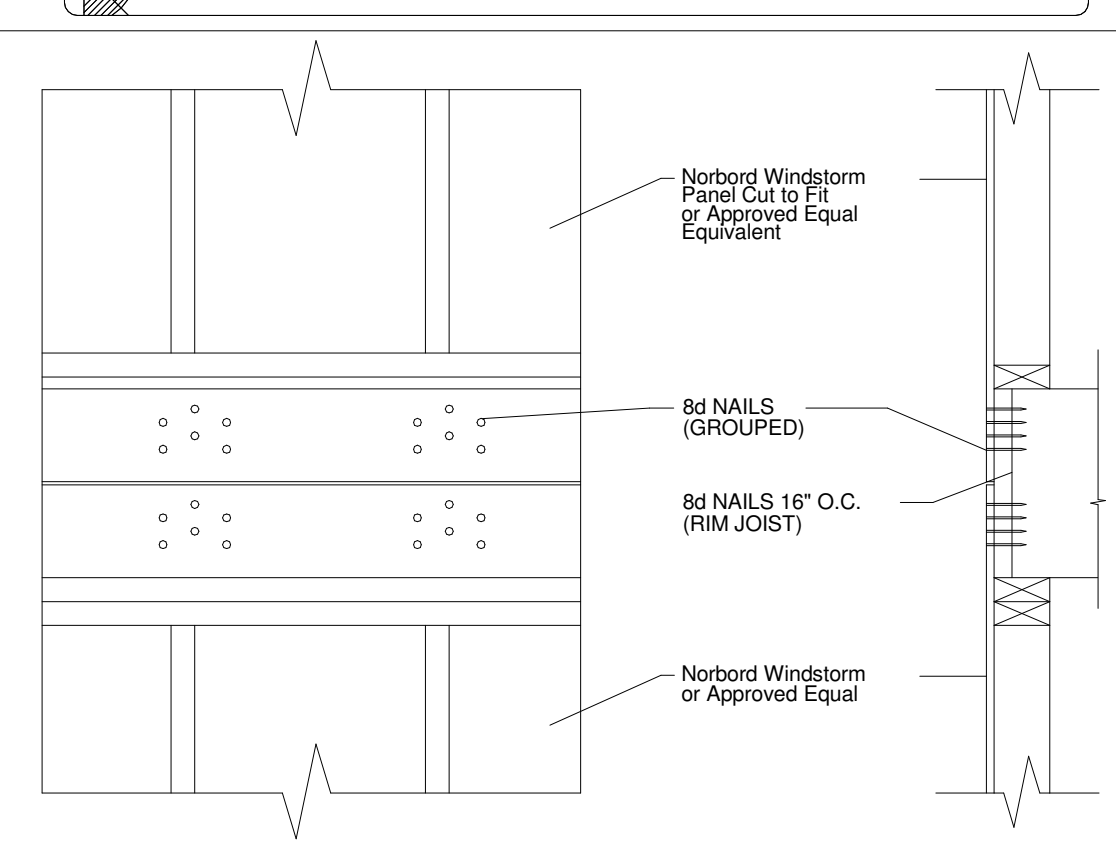
Typical Wall Sheathing Nailing Pattern



Typical Rake Strapping @ Ceiling



Typical Mid-Band Connection



Typical Gable Connection

WARREN L. DIETZ JR. P.E.  
CIVIL ENGINEER  
Covington, LA  
985-809-8033

DEVIER ENTERPRISES, LLC  
TIRE SHOP HWY 22- 656 EAST PINE  
PONCHATOULA, LA



Drawn by JJB  
Checked by MKB

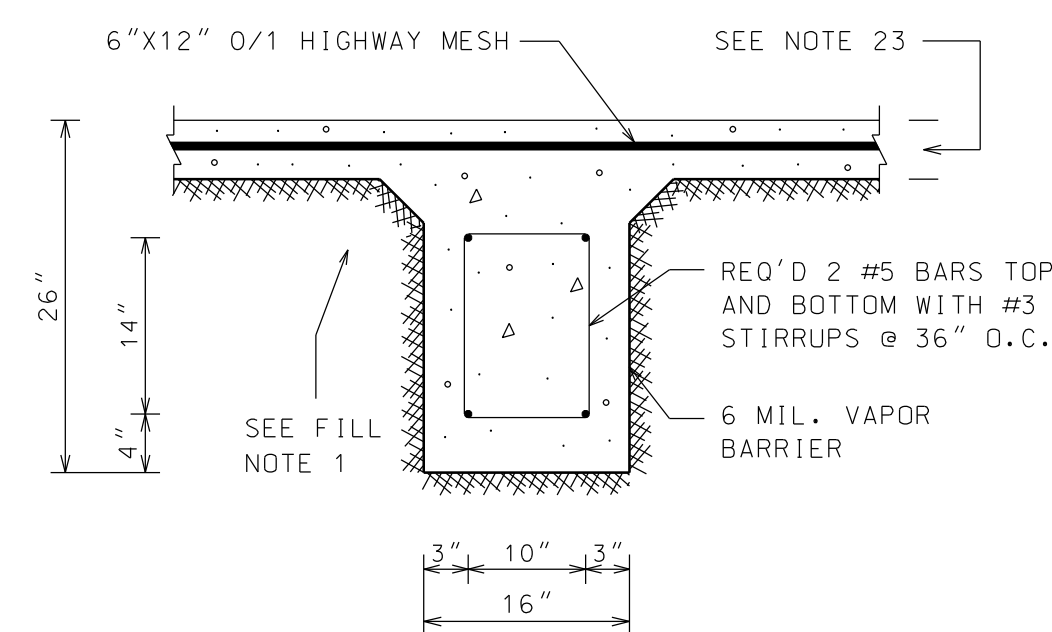
Project number DD-225C

Date 7/22/2024

SHEET

A3.4





SECTION B



| PLUMBING LEGEND  |             | PLUMBING ABBREVIATIONS  |  | PLUMBING GENERAL NOTES   |   |
|--|-------------|---|--|--|---|
| SYMBOL   | DESCRIPTION | AC<br>AD<br>AAV<br>ABV<br>AFF<br>A/E<br>AHJ<br>ADA<br>ASME<br>ASTM<br><br>BHP<br>BT<br>BTU<br>BFP<br><br>C/I<br>CD<br>CO<br>CONN<br>CONT<br>CP<br>CV<br>CW<br><br>DF<br>DFU<br>DIA<br>DN<br>DW<br>DWG<br><br>ECO<br>(E)<br>ET<br>EWC<br><br>°F<br>FCO<br>FD<br>FFL<br>FS<br><br>GAL<br>GD<br>GPM<br>GPR<br>GW<br>GWH<br>GI<br><br>HW<br>HWC<br>HB | I.E<br>IWH<br><br>KS<br><br>L<br>LT<br><br>M<br>MB<br>MX<br><br>N.T.S<br>OW<br>PD<br>PDI<br>PSIG<br><br>RD<br>OD<br>RC<br>RM<br><br>S<br>SAN<br>SH<br><br>TD<br>TPV<br>TP<br>TYP<br>TW<br><br>UB<br>U/G<br>UR<br><br>V<br>VTR<br><br>W<br>WC<br>WCO<br>WH<br>WHA<br>WM<br>WS | INVERT ELEVATION<br>INSTANTANEOUS WATER HEATER<br><br>KITCHEN SINK<br><br>LAVATORY<br>LINT INTERCEPTOR<br><br>METER<br>MOP SINK<br>MIXING VALVE<br><br>NATIONAL FIRE PROTECTION ASSOCIATION<br>NOT TO SCALE<br>OIL WASTE<br>PUMP DISCHARGE<br>PLUMBING DRAINAGE INSTITUTE<br>POUNDS PER SQUARE INCH GAUGE<br><br>ROOF DRAIN<br>OVERFLOW ROOF DRAIN<br>ROOF CONDUCTOR<br>ROOM<br><br>SINK<br>SANITARY<br>SHOWER<br><br>TRENCH DRAIN<br>TEMPERATURE/PRESSURE RELIEF VALVE<br>TRAP PRIMER<br>TYPICAL<br>TEMPERED WATER<br><br>UTILITY BOX<br>UNDERGROUND<br>URINAL<br><br>VENT<br>VENT THROUGH ROOF<br><br>WASTE<br>WATER CLOSET<br>WALL CLEAN OUT<br>WATER HEATER<br>WATER HAMMER ARRESTOR<br>WASHING MACHINE<br>MULTIPURPOSE SINK | 1. PLUMBING GENERAL NOTES ON THESE DRAWINGS ARE A PART OF THE PLUMBING SPECIFICATIONS TO THE SAME EXTENT AS IF WRITTEN HEREIN FULL.<br><br>2. ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AND STATE GOVERNING CODES, ORDINANCES AND HEALTH DEPARTMENT REGULATIONS.<br><br>3. THE INTENT OF THESE DRAWINGS IS TO FURNISH THE OWNER WITH A PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT.<br><br>4. FURNISH AND INSTALL A COMPLETE AND OPERABLE SOIL, WASTE AND VENT SYSTEM WITH FINAL CONNECTIONS TO ALL FIXTURES, APPLIANCES, DRAINS, EQUIPMENT, STRUCTURES, ETC., REQUIRING DRAINAGE CONNECTIONS THERETO TO CONVEYANCE TO THE PUBLIC SEWER SYSTEM.<br><br>4.1. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED AT UNIFORM SLOPES NOT LESS THAN THE FOLLOWING:<br>4.1.1. PIPING LESS THAN TWO AND TWO HALF (2 1/2) INCHES: 1/4 INCH PER LINEAL FOOT.<br>4.1.2. PIPING THREE (3) INCHES AND LESS THAN SIX (6) INCHES : 1/8 INCH PER LINEAL FOOT.<br>4.1.3. PIPING EIGHT (8) INCHES OR LARGER: 1/16 INCH PER LINEAL FOOT.<br>4.1.4. UNLESS OTHERWISE INDICATED ON DRAWINGS, UNDERGROUND DRAINAGE VENT PIPING SHALL BE MINIMALLY SLOPED BACK TO DRAINAGE PIPING.<br><br>5. FURNISH AND INSTALL A COMPLETE AND OPERABLE DOMESTIC WATER DISTRIBUTION SYSTEM WITH FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, APPLIANCES, EQUIPMENT, WALL HYDRANTS, ETC., REQUIRING DOMESTIC WATER CONNECTIONS THERE TO FROM THE DOMESTIC WATER SERVICE.<br><br>6. FURNISH AND INSTALL ALL PLUMBING FIXTURES, EQUIPMENT, APPLIANCES, COMPLETE WITH ALL NECESSARY AND REQUIRED TRIMMINGS, ACCESSORIES, COMPONENTS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO P-TRAPS, BACK FLOW DEVICES, AIR CHAMBERS, STOPS AND SUPPLIES, HANGERS, SUPPORTS, ANCHORS, CARRIERS, TAILPIPPES, TEMPERING VALVES, ETC.<br><br>7. ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS OF THE BUILDING, OR AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. PLACE ALL HANGERS ON EIGHT (8) FOOT CENTERS.<br><br>7.1. PIPES ONE (1) INCH IN DIAMETER OR LESS: SOLID OR SPLIT RING TYPE<br>7.2. PIPES LARGER THAN ONE (1) INCH: STANDARD WEIGHT CLEVIS HANGERS<br>7.3. INSULATED PIPING: SEMI-CIRCULAR SHIELD.<br><br>8. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO ACCESS ANY VALVES OR ANY PLUMBING ITEMS REQUIRING ACCESS FOR MAINTENANCE. CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL LOCATION AND SIZES OF ACCESS PANELS FOR APPROVAL BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION.<br><br>9. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.<br><br>10. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.<br><br>11. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.<br><br>12. CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENTS, CABINET, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.<br><br>13. VALVES,UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHER WISE INDICATED ON DRAWINGS.<br><br>14. IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS LESS THAN 1 1/4 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES. SUCH PLATES SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED, AND SHALL EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.<br><br>15. SHIELD PLATES SHALL BE OF STEEL MATERIAL HAVING A THICKNESS OF NOT LESS THAN 0.0575 INCH. |
| PLUMBING SHEET INDEX   |             | PLUMBING SHEET INDEX  |  | PLUMBING SPECIFICATIONS  |   |
| SHEET NO.  |             | SHEET NAME  |  | SCALE  |   |
| P0.1   |             | PLUMBING LEGENDS, ABBREVIATIONS AND NOTES   |  | N.T.S.   |   |
| P0.2   |             | PLUMBING SPECIFICATIONS   |  | N.T.S.   |   |
| P1.0   |             | SANITARY DRAINAGE FLOOR PLAN  |  | 1/4" = 1'-0"   |   |
| P2.0   |             | DOMESTIC WATER FLOOR PLAN   |  | 1/4" = 1'-0"   |   |
| P3.0   |             | PLUMBING DETAILS & RISER DIAGRAM  |  | N.T.S.   |   |
| P4.0   |             | PLUMBING SCHEDULES  |  | N.T.S.   |   |
| APPLICABLE CODES   |             | APPLICABLE CODES  |  | PIPING LEGEND  |   |
| 1. 2021 INTERNATIONAL BUILDING CODE (IBC)<br>2. 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)<br>3. 2021 INTERNATIONAL MECHANICAL CODE (IMC)<br>4. 2021 INTERNATIONAL PLUMBING CODE (IPC)<br>5. 2020 NATIONAL ELECTRICAL CODE (NEC)<br>6. 2021 INTERNATIONAL FUEL GAS CODE (IFGC) |             | PIPING LEGEND   |  | NOTES:<br>ETR- EXISTING TO REMAIN.   |   |
| EQUIPMENT IDENTIFICATION   |             | ROOF DRAIN IDENTIFICATION   |  | EQUIPMENT IDENTIFICATION   |   |
| SYMBOL OR TYPE (SEE SCHEDULE OR SPECIFICATIONS)<br>IDENTIFICATION NUMBER (SEE SCHEDULE)<br>KEYNOTES  |             | RD-1<br>X" (1000)<br>SYMBOL<br>SIZE (GPM)   |  | SYMBOL OR TYPE (SEE SCHEDULE OR SPECIFICATIONS)<br>IDENTIFICATION NUMBER (SEE SCHEDULE)<br>KEYNOTES  |   |
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|  |             |   |  |  |   |



PLUMBING SPECIFICATIONS

TRADE JURISDICTION:

WHEN IT BECOMES NECESSARY FOR THE COMPLETE FULFILLMENT OF THIS WORK FOR THIS CONTRACTOR TO FURNISH LABOR OR MATERIALS OTHER THAN THAT WHICH IS GENERALLY ACCEPTED BY THIS TRADE OR BRANCH OF WORK, THE CONTRACTOR SHALL SUBLET SAME TO A CONTRACTOR ENGAGED IN THE TRADE OR BRANCH OF WORK INVOLVED. THERE SHALL BE NO DELAY TO OR STOPPAGE OF WORK DUE TO THE INFRINGEMENT OR ALLEGED INFRINGEMENT TO TRADE AGREEMENTS AS TO THE JURISDICTION.

REQUESTS FOR INFORMATION (RFI'S):

- ALL REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
- IF THERE IS NO CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. SUBMIT RFIS TO THE ARCHITECT/ENGINEER.
- THERE WILL BE NO RESPONSE TO RFIS THAT ARE NOT SUBMITTED IN WRITTEN FORM.
- ANY FORMAL OR INFORMAL, OR PHONE CONVERSATION DOES NOT CONSTITUTE THE AUTHORIZATION TO PROCEED.
- STATE THE PERIOD OF ENGINEER/ARCHITECT REVIEW (TYPICALLY AT LEAST 7 DAYS)

WORKMANSHIP:

ALL LABOR SHALL BE EXECUTED IN A NEAT, WORKMANLIKE MANNER AND SHALL BE PERFORMED BY PERSONS SKILLED IN THEIR RESPECTIVE TRADES. THE ARCHITECT/ENGINEER SHALL DECIDE ALL MATTERS PERTAINING TO THE QUALITY OF WORKMANSHIP AND MATERIALS.

COORDINATION OF WORK:

CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TO AVOID INTERFERENCE BEFORE STARTING ANY INSTALLATION. ANY NEGLECT BY THE CONTRACTOR TO COORDINATE WITH OTHER CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

CUTTING AND PATCHING:

CONTRACTOR SHALL INCLUDE ALL CUTTING AND PATCHING, AS REQUIRED. ALL CORES THROUGH SLABS AND FOUNDATION WALLS SHALL BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL ASSUME ALL LIABILITIES FOR CORES WHICH HAVE NOT BEEN APPROVED. PATCH ALL DISTURBED WALL, FLOORS, PARTITIONS, CEILINGS, ETC., RESTORE TO ORIGINAL CONDITION.

OPERATING INSTRUCTIONS:

CONTRACTOR SHALL PREPARE A TYPEWRITTEN LIST IN DUPLICATE OF INSTRUCTIONS OF THE OPERATION OF ALL EQUIPMENT AND SHALL INSTRUCT IN ITS OPERATION. ALL VALVES AND EQUIPMENT SHALL BE MARKED WITH A METAL TAG AND A TYPEWRITTEN SCHEDULE SHALL BE GIVEN TO THE OWNER.

GUARANTEE:

CONTRACTOR SHALL GUARANTEE WORK TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO THE OWNER, UPON OWNER'S REQUEST.

PRODUCTS:

MATERIALS:

- ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS PRODUCTS OF MANUFACTURERS SPECIFIED HEREIN AND OR AS APPROVED BY THE ARCHITECT/ENGINEER OF RECORD.MENTION ALL PRODUCTS TO BE STATE APPROVED FOR IT'S INTENDED USE AND SUBMITTALS ARE TO HAVE APPROVAL # CLEARLY INDICATED ON EACH PRODUCT SUBMITTAL. IF NOT PRESENT, SUBMITTAL WILL BE REJECTED.
- THE DESIGN INTENT, SPACE REQUIREMENTS, PERFORMANCE, ETC., ARE BASED ON PRODUCTS OF THE MANUFACTURER(S) INDICATED IN THESE SPECIFICATIONS. UNLESS NOTED OTHERWISE EQUAL PRODUCTS OF OTHER MANUFACTURER(S) MAY BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER OF RECORD. PRODUCTS INSTALLED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- MANUFACTURER(S) IDENTIFICATION OF MATERIAL: EACH LENGTH OF PIPE, PIPE FITTING, EQUIPMENT, DEVICE AND APPURTENANCE IN THE FIRE PROTECTION SYSTEM SHALL HAVE CAST, STAMPED OR INDELIBLY MARKED ON IT THE MARKER'S MARK OR NAME, WEIGHT, CLASS OF PRODUCT AND STANDARD THAT APPLIES.
- PROVIDE DIELECTRIC FITTINGS TO CONNECT PIPING TO EQUIPMENT OR OTHER PIPING OF DISSIMILAR METALS. USE CLAMPS AND FASTENERS OF SIMILAR METALS OR ISOLATE FROM PIPING. ISOLATE PIPING FROM CONCRETE SLABS AND WALLS TO PREVENT CORROSION.
- ALL SHOWER AND SHOWER/TUB COLD AND HOT WATER PIPING IN WALL FOR VALVE, SHOWER HEAD AND TUB FILL SHALL BE MOUNTED WITH HOLDRITE "STOUT" BRACKETS AND CLAMPS WITH ACOUSTICAL ISOLATORS.

PLUMBING FIXTURES:

- PLUMBING FIXTURES AND TRIMMINGS HAVE BEEN SELECTED AS A BASE FOR THIS INSTALLATION, EXCEPT WHERE OTHERWISE SPECIFIED, BUT OTHER MAKES WHICH ARE EQUAL AND APPROVED MAY BE USED. CONTRACTOR SHALL SUBMIT FOR ARCHITECT/ENGINEER'S APPROVAL PORTFOLIO ILLUSTRATING AND DESCRIBING IN DETAIL THE FIXTURES, TRIMMINGS AND VALVES CONTRACTOR CONTEMPLATES USING, GIVING NAMES AND CATALOG NUMBERS OR IDENTIFYING DESCRIPTION.
  - PLUMBING FIXTURES SHALL BE OF THE BEST QUALITY AND SHALL HAVE MANUFACTURER'S GUARANTEE LABEL OR TRADEMARK INDICATING FIRST QUALITY.
- INSTALL/PROVIDE FLUSH VALVES AND/OR FLUSH TANKS WITH HANDLE ON OPEN SIDE OF FIXTURE.
- SET ALL FLOOR FIXTURES ON A WHITE TILE SETTERS GROUT TO FORM A SOLID WATER TIGHT BASE.
- CAULK ALL FIXTURES WATER TIGHT TO WALL AND FLOOR USING CLEAR SILICONE CAULK NEAT AND SMOOTHLY SET IN PLACE AND EXCESS CLEANED FROM WALL OR FIXTURE.
- ALL PLUMBING FIXTURE SHALL BE WATER-SENSE LABELED.
- THERMOSTATIC MIXING VALVES, SHALL BE INSTALLED ON ALL SINKS AND LAVATORIES WITHOUT EXCEPTION.
- METER BOXES. METER BOXES SHALL BE CONSTRUCTED IN SUCH A MANNER THAT RODENTS ARE PREVENTED FROM ENTERING A STRUCTURE BY WAY OF THE WATER SERVICE PIPES CONNECTING THE METER BOX AND THE STRUCTURE.

HANGERS AND SUPPORTS:

- STEEL PIPE HANGERS AND SUPPORTS: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS. REFER TO EXECUTION SECTION "HANGER AND SUPPORT APPLICATIONS."
  - GALVANIZED, METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED.
  - NON-METALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
  - PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION FOR SUPPORT OF BEARING SURFACE OF PIPING.
- COPPER PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 6'-0" AND AT EACH CHANGE IN HORIZONTALS OF VERTICAL. HANGERS SHALL SUPPORT PIPING AT PIPE WITH INSULATION OVER TOP OR WITH METAL SLEEVE TO PROTECT INSULATION FROM BEING CRUSHED.
- HANGER SHIELD: HANGERS FOR PIPING SHALL BE PLACED AROUND THE OUTSIDE OF THE INSULATION AND PROTECTIVE SHIELDS SHALL BE INSTALLED AT EVERY HANGER LOCATION. SHIELD SHALL NOT BE LESS THAN 2/3 THE CIRCUMFERENCE OF THE INSULATION AND WHERE SPEED CLIPS ARE USED, THE METAL SHIELD SHALL BE CONTINUOUS AROUND THE CIRCUMFERENCE OF THE PIPE INSULATION. SHIELDS SHALL BE FABRICATED OF THE FOLLOWING GAUGES:

| NOMINAL PIPE SIZE | METAL GAUGE |
|-------------------|-------------|
| 0" - 1 1/2"       | 20          |
| 2" - 3"           | 16          |
| 3 1/2"            | UP TO 14    |

- TRAPEZE PIPE HANGERS: MSS SP-69, TYPE 69, SHOP OR FIELD FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL STEEL SHAPES WITH MSS-SP-58 HANGER RODS, NUTS, SADDLES, AND U-BOLTS.
- METAL FRAMING SYSTEMS: MFMA-3, SHOP OR FIELD FABRICATED PIPE SUPPORT ASSEMBLY MADE OF STEEL CHANNELS AND OTHER COMPONENTS.
- THERMAL HANGER SHIELD INSERTS: 100-PSIG MINIMUM, COMPRESSIVE STRENGTH INSULATION INSERT ENCASED IN SHEET METAL SHIELD.
- FASTENER SYSTEMS:
  - POWDER ACTUATED FASTENERS: THREADED STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
  - MECHANICAL EXPANSION ANCHORS: INSERT WEDGE TYPE, ZINC COATED OR STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
- EQUIPMENT SUPPORTS: WELDED, SHOP OR FIELD FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL STEEL SHAPES.
- MISCELLANEOUS MATERIALS:
  - STRUCTURAL STEEL: ASTM A 46/A 36M, STEEL PLATES, AND BARS; BLACK AND GALVANIZED.
  - GROUT: ASTM C 1107, FACTORY-MIXED AND PACKAGED, DRY, HYDRAULIC-CEMENT, NON-SHRINK AND NON-METALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
  - PROPERTIES: NON-STAINING, NON-CORROSIVE, AND NON-GASEOUS.
  - DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH.
- PROVIDE SEISMIC BRACING OF PIPING BASED ON SEISMIC CATEGORY OF ZONE PROJECT IS BEING CONSTRUCTED.

INSULATION:

- THERMAL INSULATION MATERIALS SHALL MEET THE PROPERTY REQUIREMENTS OF THE FOLLOWING.
  - ASTM C547, ASTM C585, AND ASTM C1136.
- INSULATION MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF IECC-2021.
- INSULATION MATERIALS SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH THE FOLLOWING TESTING STANDARDS:
  - ASTM E84, UL 723 AND NFPA 255.
- INSULATION SHALL BE FIBERGLASS PRE-FORMED PIPE INSULATION, ONE-PIECE, HINGED SECTION, WITH FACTORY APPLIED WHITE POLYMER FACING, TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, AND MATCHING PRESSURE SENSITIVE TAPE. MANUFACTURER'S DATA REGARDING THICKNESS CONSTRAINTS IN RELATION TO OPERATING TEMPERATURE SHALL BE FOLLOWED. STAPLING IS NOT ALLOWED TO COMPLETE THE CLOSURE.
- INSULATION MATERIAL CAN BE A FLEXIBLE ELASTOMERIC POLYETHYLENE INSULATION. INSTALL IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COVER ALL OF THE FOLLOWING PIPE TYPES LISTED WITH PRE MOLDED PIPE INSULATION OF THICKNESS INDICATED, 4 LB. DENSITY AND ASJ JACKET.

| PIPE TYPE                        | INSULATION THICKNESS (INCHES) |
|----------------------------------|-------------------------------|
| DOMESTIC COLD WATER              |                               |
| PIPE SMALLER THAN 1-1/2"         | 1/2                           |
| PIPE 1-1/2" INCH AND LARGER      | 1                             |
| PIPE 2-1/2 INCH AND LARGER       | 1                             |
| DOMESTIC HOT WATER               |                               |
| PIPE SMALLER THAN 1-1/2"         | 1                             |
| PIPE 1-1/2" AND LARGER           | 1-1/2                         |
| DOMESTIC HOT WATER (CIRCULATING) |                               |
| PIPE SMALLER THAN 1-1/2"         | 1                             |
| PIPE 1-1/2" AND LARGER           | 1-1/2                         |
| STORM WATER                      |                               |
| PIPE 3 INCH AND LARGER           | 1                             |

FIRE STOPPING:

- INSTALLING CONTRACTOR SHALL INSTALL HILTI FIRE CAULK ON ALL PIPE PENETRATION GOING THROUGH FIRE RATED ASSEMBLIES. INSTALLATION SHALL BE PER HILTI DETAIL.
- PENETRATION IN FIRE-RESISTANCE-RATED WALLS/PARTITONS OR HORIZONTAL ASSEMBLIES: PENETRATION FIRESTOPPING SYSTEMS WITH RATING DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WC. FIRE RATING: NOT LESS THAN THE FIRERESISTANCERATING OF CONSTRUCTIONS PENETRATED.
- PENETRATIONS IN SMOKE BARRIERS: PENETRATION FIRESTOPING SYSTEMS WITH RATINGS DETERMINED PER UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERNTIAL OF 0.30-INCH WG.
- ACCESSORIES: PROVIDE COMPONENTS FOR EACH PENETRATION FIRESTOPPING SYSTEMS THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO MAINTAIN RATING REQUIRED. USE ONLY THOSE COMPONENTS SPECIFIED BY PENETRATION FIRESTOPPING SYSTEMS MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR CONDITIONS INDICATED.

EXECUTION

SCOPE OF WORK:

- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FACILITIES, TRANSPORTATION, FEES AND SERVICES NECESSARY FOR A COMPLETE PLUMBING SYSTEM(S) AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. WORKMANSHIP SHALL BE COMPLETE IN EVERY ASPECT, TESTED, APPROVED AND SATISFACTORY TO THE ARCHITECT/ENGINEER AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS HAVING JURISDICTION.
- IT IS THE DECLARED AND ACKNOWLEDGED INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING SYSTEM(S), INCLUSIVE OF ALL REQUIRED PARTS AND ACCESSORIES COMPLETE AND READY FOR USE AS DESCRIBED, BUT NOT LIMITED TO THE FOLLOWING:
  - DOMESTIC WATER SERVICE AND DISTRIBUTION.
  - DOMESTIC HOT WATER.
  - SANITARY DRAINAGE SYSTEM.
  - PLUMBING FIXTURES.
  - PLUMBING EQUIPMENT.
  - PLUMBING SPECIALTIES.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK INCLUDED. WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED, INCLUDING THESE DETAILS, WITHOUT EXTRA COST TO THE OWNER.

SUBMITTALS AND SHOP DRAWINGS:

- SHOP DRAWING LAYOUT SUBMITTAL(S) SHALL BE A MINIMUM OF 1/8 INCH PER FOOT SCALE, SHOWING ALL PIPING TO BE INSTALLED. DETAILED LAYOUT(S) OF TOILETS, KITCHENS AND EQUIPMENT ROOMS SHALL BE NOT LESS THAN 1/4 INCH PER FOOT SCALE. THE DRAWING SHALL ALSO SHOW THE WORK COORDINATED WITH ALL OTHER TRADES, ALL DRAWINGS SHALL BE SUBMITTED PRIOR TO STARTING

- ANY WORK, AND IN ACCORDANCE WITH AN APPROVED SCHEDULE, PROVIDED BY THE GENERAL CONTRACTOR, TO AVOID ANY DELAY ON THE PROJECT.
- EQUIPMENT, FIXTURES AND OTHER RELATED APPURTENANCES SHALL BE SUBMITTED IN BOUNDED BOOKLETS. ALL DATA MUST BE CLEARLY LEGIBLE. SUBMIT SIX(6) COPIES MIN. OF EACH.
  - CONTRACTOR SHALL SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES, SHOP DRAWINGS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
  - CONTRACTOR SHALL PREPARE AND FURNISH TO THE OWNER, AN ELECTRONIC SUBMITTAL CONTAINING A COMPLETE LIST OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. EACH PIECE OF EQUIPMENT LISTED SHALL ALSO BE DESCRIBED BY MANUFACTURER(S) MODEL NUMBER, FIGURE NUMBER AND THE COMPONENTS THEREIN WHICH MAKE UP THE PART(S) LIST. ELECTRONIC VERSION OF SHOP DRAWINGS MAY ALSO BE SUBMITTED TO THE ARCHITECT IN PDF FORM VIA EMAIL.
  - SHOP DRAWINGS SHALL INCLUDE CONTRACTOR'S NAME, JOB ADDRESS, MANUFACTURER'S NAME, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT.
  - SUBMITTAL REVIEWS ARE A COURTESY REVIEW FOR GENERAL CONFORMANCE AND DO NOT IMPLY A GUARANTEE OF EXISTING CONDITIONS OR BUILDING MEASUREMENTS. A SUBMITTAL REVIEW IN NO WAY ALLEVIATES THE CONTRACTOR OF ENSURING COMPATIBILITY AND FUNCTIONALITY SYSTEMS, COMPONENTS, OR OTHER RESPONSIBILITIES UNDER THE CONTRACT.
  - SHOP DRAWINGS WILL REQUIRE A MINIMUM OF 5 BUSINESS DAYS FOR REVIEW. THE CONTRACTOR SHALL INCLUDE THE REQUIRED REVIEW TIME IN ALL PROJECT AND CONSTRUCTION SCHEDULES. THERE SHALL BE NO ADDITIONAL COMPENSATION OR CONSIDERATION FOR FAILURE TO INCLUDE THE PROPER REVIEW TIME.
  - NO EQUIPMENT SHALL BE PURCHASED OR INSTALLED WITHOUT AN APPROVED SHOP DRAWING SUBMITTED. FAILURE TO COMPLY WITH THIS PROVISION, THE CONTRACTOR DOES AT HIS OWN RISK.
  - ONE (1) WEEK PRIOR TO FINAL INSPECTION, DELIVER TO THE ARCHITECT/ENGINEER TYPEWRITTEN COPIES OF EACH OF THE FOLLOWING:
    - CERTIFICATION FROM CONTRACTOR THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.
    - CERTIFICATION FROM RESPECTIVE MANUFACTURER(S) AUTHORIZED REPRESENTATIVE THAT EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.
    - CERTIFICATION FROM AUTHORITY HAVING JURISDICTION THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED, TESTED AND ACCEPTED FROM THE AUTHORITY HAVING JURISDICTION.

INSPECTIONS AND TESTS:

- TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY AND OWNER'S REPRESENTATIVE. PROVIDE FIVE (5) DAYS NOTICE TO THE OWNER, ARCHITECT OF RECORD AND GOVERNING AUTHORITY. PROVIDE ALL NECESSARY EQUIPMENT, MATERIAL AND LABOR TO PERFORM TESTS.
- ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION, BY USING WATER OR AIR TO PROVE WATERTIGHT.
- SANITARY & STORM DRAINAGE AND VENT WATER TEST: A WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE TIGHTLY CLOSED, EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY PLUGGED EXCEPT THE HIGHEST OPENINGS OF THE SECTION UNDER TEST, AND EACH SECTION SHALL BE FILLED WITH WATER, BUT SECTIONS SHALL NOT BE TESTED WITH LESS THAN A 10-FOOT (3048 MM) HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, NOT LESS THAN THE UPPER 10 FEET (3048 MM) OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT NO JOINT OR PIPE IN THE BUILDING, EXCEPT THE UPPERMOST 10 FEET (3048 MM) OF THE SYSTEM, SHALL HAVE BEEN SUBMITTED TO A TEST OF LESS THAN A 10-FOOT (3048 MM) HEAD OF THIS PRESSURE SHALL BE HELD FOR NOT LESS THAN 15 MINUTES. THE SYSTEM SHALL THEN BE TIGHT AT ALL POINTS.
- DRAINAGE AND VENT AIR TEST: AN AIR TEST SHALL BE MADE BY FORCING AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 1.5 PSI (34.5 KPA) OR SUFFICIENT TO BALANCE A 10-INCH (254 MM) COLUMN OF MERCURY. THIS PRESSURE SHALL BE HELD FOR A TEST PERIOD OF NOT LESS THAN 15 MINUTES.
- WATER SUPPLY SYSTEM: WATER SUPPLY SYSTEM SHALL BE TESTED AND PROVED WATERTIGHT UPON COMPLETION OF A SECTION OR THE ENTIRE SYSTEM. SYSTEM SHALL BE TESTED UNDER A WATER PRESSURE OF AT LEAST 1.5 TIMES THE SYSTEM PRESSURE, BUT AT LEAST 100 PSI AT A MINIMUM BY AIR OR WATER. TESTING PRESSURE SHALL BE MAINTAINED FOR A LEAST FIFTEEN (15) MINUTES AND WATER USED FOR TEST SHALL BE FROM POTABLE WATER.
- PLASTIC PIPING SHALL NOT BE TESTED USING AIR.

FLUSHING:

- CHLORINATION OF WATER PIPING: FLUSH THE DOMESTIC WATER PIPING SYSTEM WITH CLEAN POTABLE WATER UNTIL CONTAMINATED WATER DOES NOT APPEAR AT THE OUTLET. FILL WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE FOR A PERIOD (AS PRESCRIBED BY THE CODE) BEFORE FLUSHING. FLUSH THE SYSTEM COMPLETELY WITH CLEAR WATER UNTIL ALL RESIDUAL CHLORINE CONTENT IS REMOVED. CHLORINATION SHALL BE PERFORMED AFTER ALL PIPING AND FINAL CONNECTIONS AND PRESSURE TESTING HAS BEEN COMPLETED. IF, AFTER THE PIPES HAVE BEEN CHLORINATED, THE PIPES HAVE TO BE DISMANTLED, THE CHLORINATION PROCESS MUST BE REPEATED.
- NON-CHLORINATED WATER SUPPLY: WATER SUPPLY SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.

DISINFECTION OF POTABLE WATER SYSTEM:

- DISINFECT AND FLUSH POTABLE WATER SYSTEM PER LOCAL PLUMBING, BUILDING, AND HEALTH DEPARTMENT REQUIREMENTS.

LABEL AND IDENTIFICATION:

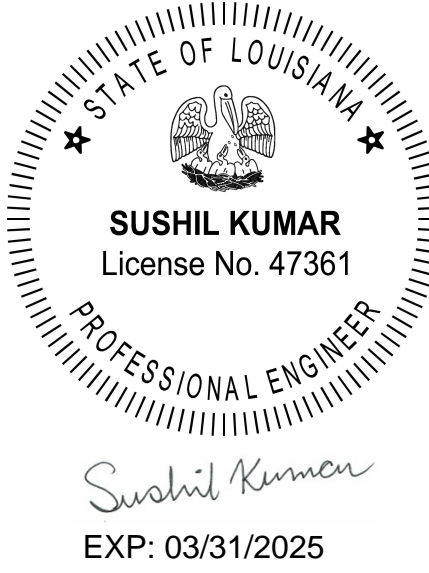
- IDENTIFICATION FOR ALL PIPING SYSTEM(S) SHALL COMPLY WITH ANSI A13.1 FOR SIZE OF LETTERING AND BACKGROUND COLOR FIELD.
- PIPING SYSTEM(S): IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE PIPING SYSTEM(S) AND AN ARROW INDICATING THE DIRECTION OF FLOW. HAZARDOUS PIPING SYSTEM(S) SHALL ALSO CONTAIN INFORMATION ADDRESSING THE NATURE OF THE HAZARD. IDENTIFICATION SHALL BE MAINTAINED AT MAXIMUM INTERVALS OF TWENTY-FIVE (25) FEET AND AT CHANGE IN DIRECTION AND ALSO AT EACH POINT WHERE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. COLOR OF THE PIPE IDENTIFICATION SHALL BE DISCERNIBLE AND CONSISTENT THROUGHOUT THE BUILDING.
- EQUIPMENT: IDENTIFICATION SHALL INCLUDE SYSTEM NUMBER, CAPACITY, FLOW RATE, STATIC PRESSURE, PUMP HEAD, HORSEPOWER, VOLTAGE, ETC.
- VALVE TAGS: PROVIDE BRASS VALVE TAGS AND BRASS "S" HOOK FASTENERS WITH VALVE NUMBER AND TYPE OF SERVICE NOTED ON TAG. PROVIDE DUPLICATE CHARTS, THE CHART SHALL BE FOR ALL VALVES AND SHALL INDICATE VALVE IDENTIFICATION NUMBER, LOCATION AND PURPOSE.

PROJECT FOR:

DEVIER ENTERPRISES,LLC

TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOLA, LA 70454

SEAL & SIGN:



| 0   | ISSUED FOR PERMIT | 09/05/2024 |
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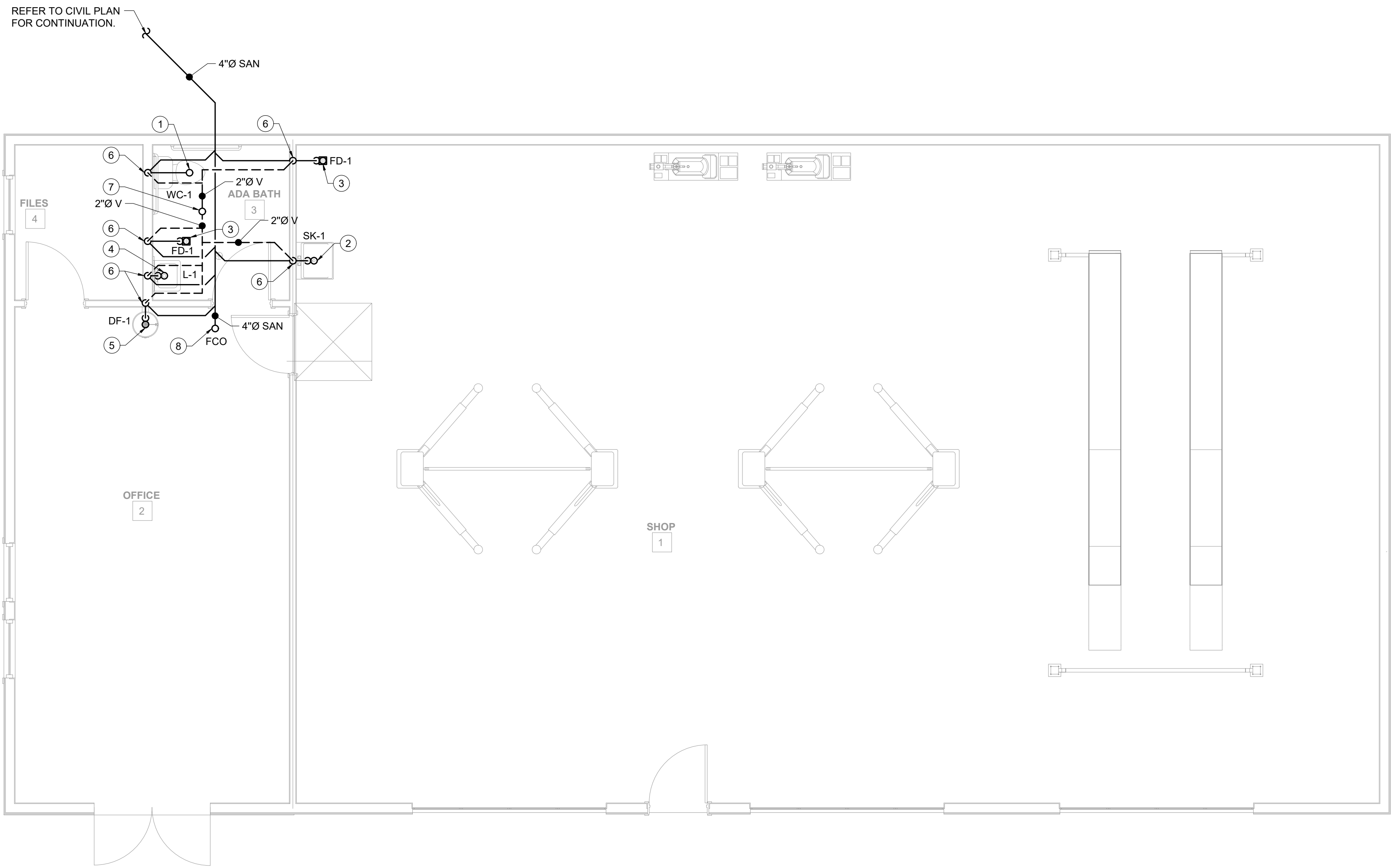
SHEET NAME:

PLUMBING  
SPECIFICATIONS

|                  |
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| DRAWN BY: V.T.   |
| CHECKED BY: S.P. |
| DATE: 09/05/2024 |
| SCALE: N.T.S.    |

P0.2





**1** **SANITARY DRAINAGE FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**PLUMBING GENERAL NOTES:**

1. PROVIDE FIRE BLOCKING AT OPENING AROUND VENTS, AND PIPES AT FIRE WALL AND FLOOR LEVEL WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.
2. ALL SANITARY WASTE PIPE RUN BELOW THE FLOOR.

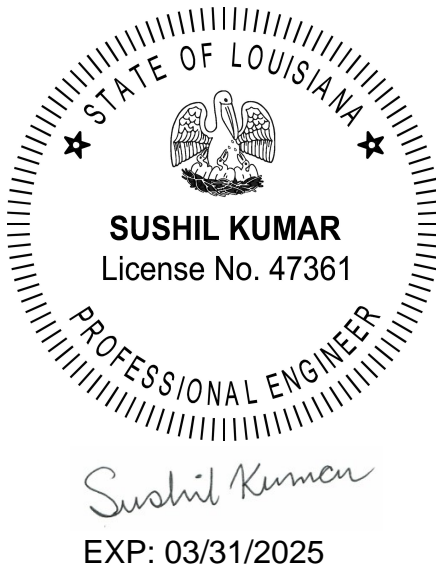
**(#) FLOOR PLAN KEYNOTES:**

1. 4"Ø SAN PIPE UP TO WC-1.
2. 2"Ø SAN PIPE UP TO SK-1.
3. 2"Ø SAN PIPE UP TO FD-1.
4. 2"Ø SAN PIPE UP TO L-1.
5. 2"Ø SAN PIPE UP TO DF-1.
6. 2"Ø V PIPE DN.
7. 2"Ø V PIPE UP & 3"Ø VTR.
8. 4"Ø SAN PIPE UP TO FCO.

PROJECT FOR:

**DEVIER ENTERPRISES,LLC**  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOULA, LA 70454

SEAL & SIGN:



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SHEET NAME:

**SANITARY  
DRAINAGE  
GROUND LEVEL  
FLOOR PLAN**

DRAWN BY: V.T.

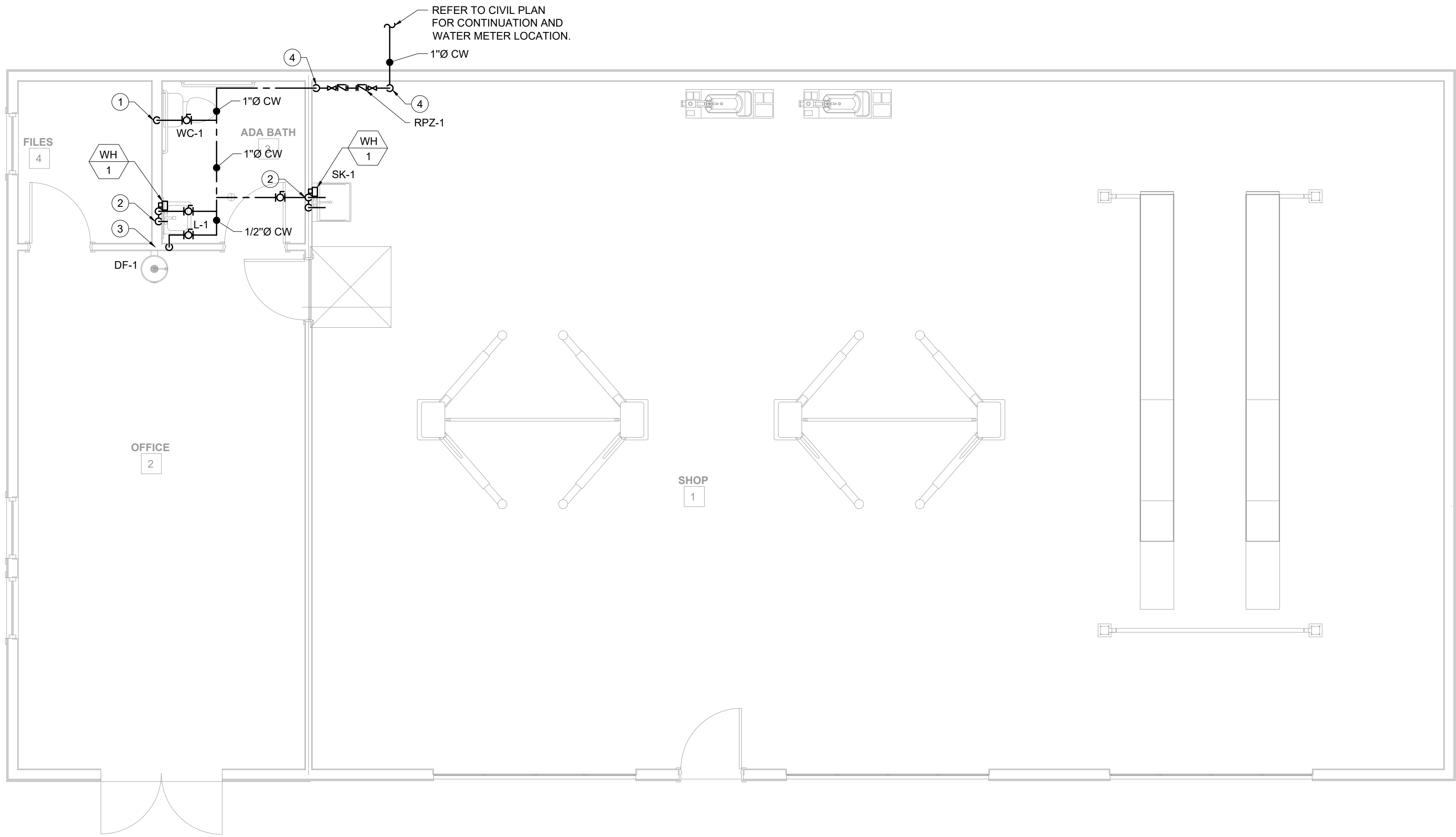
CHECKED BY: S.P.

DATE: 09/05/2024

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

**P1.0**





1

DOMESTIC WATER FLOOR PLAN

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

PLUMBING GENERAL NOTES:

- CLARITY: NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULES FOR THE SIZES OF BRANCH PIPES OF FIXTURES NOT SHOWN ON PLANS.
- REFERS TO FIXTURE & EQUIPMENT DESIGNATION. SEE CORRESPONDING SPECIFICATION AND EQUIPMENT SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE ACCESS DOORS FOR SHOCK ABSORBERS, TRAP PRIMERS AND VALVES. COORDINATE FINAL LOCATIONS WITH PARTITIONS AND ARCHITECT.
- THE CONTRACTOR SHALL EXACT LOCATION OF WATER METER AT SITE.

# FLOOR PLAN KEYNOTES:

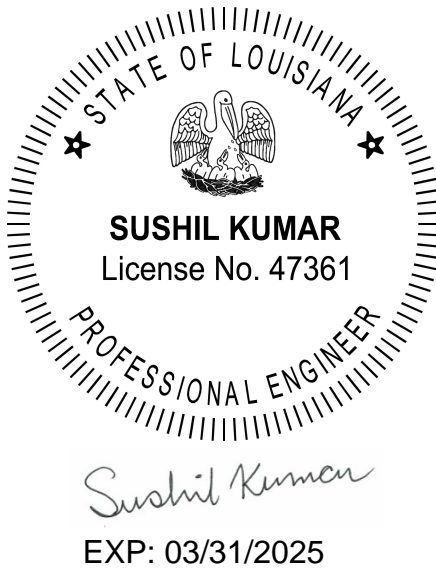
- 3/4" CW PIPE DN TO WC-1.
- CONNECT 3/4" CW TO WATER HEATER (WH-1) & SERVE THE L-1/SK-1. MOUNT WH UNDER COUNTER. REFER TO DETAIL 3/P3.0.
- 1/2" CW PIPE DN TO DF-1.
- 1" CW PIPE DN.

PROJECT FOR:

DEVIER ENTERPRISES,LLC

TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOLA, LA 70454

SEAL & SIGN:



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SHEET NAME:

DOMESTIC WATER  
FLOOR PLAN

DRAWN BY: V.T.

CHECKED BY: S.P.

DATE: 09/05/2024

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

P2.0


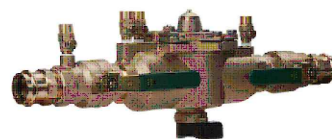





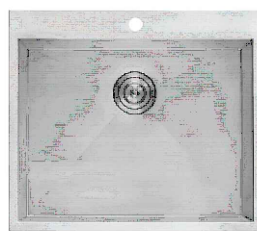





## P3.0



| PIPING MATERIALS SCHEDULE  |                                     |              |  |  |                   |   |
|--|-------------------------------------|--------------|--|--|-------------------|---|
| PLAN TAG   | PLUMBING SYSTEM                     |              |  | SYSTEM MATERIAL AND FITTING SPECIFICATION  |                   |   |
|  | DESCRIPTION                         | INSTALLATION | SIZES  |  |                   |   |
| SAN  | SANITARY (SOIL) PIPING              | SUSPENDED    | 2-1/2" AND SMALLER   | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     |              | 3" AND LARGER  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     | BURIED       | 3" AND LARGER  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
| V  | VENT PIPING<br>(ALL SYSTEMS)        | SUSPENDED    | 2-1/2" AND SMALLER   | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     |              | 3" AND LARGER  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     |              |  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     | BURIED       | 2" AND LARGER  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     |              |  | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |                   |   |
|  |                                     |              | SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL |  |                   |   |
| CW   | DOMESTIC COLD<br>WATER DISTRIBUTION | SUSPENDED    | 2" AND SMALLER   | DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159            |                   |   |
|  |                                     |              | 2 1/2" AND LARGER  | COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22                       |                   |   |
|  |                                     | BURIED       | 2" AND SMALLER   | DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159            |                   |   |
|  |                                     |              | 2 1/2" AND LARGER  | COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22                       |                   |   |
|  |                                     | HW & HWC     | DOMESTIC HOT WATER<br>DISTRIBUTION   | SUSPENDED  | 2" AND SMALLER    | DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159 |
|  |                                     |              |  |  | 2 1/2" AND LARGER | COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22            |
| BURIED   | 2" AND SMALLER                      |              |  | DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159            |                   |   |
|  | 2 1/2" AND LARGER                   |              |  | COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22                       |                   |   |
| NOTE:<br>THE MATERIALS ARE SUBJECT TO CHANGE WITH APPROVAL OF ARCHITECTURE OR OWNER. |                                     |              |  |  |                   |   |

| PLUMBING FIXTURE SCHEDULE   |                              |                       |                       |            |      |      |           |      |   |  |   |
|---|------------------------------|-----------------------|-----------------------|------------|------|------|-----------|------|---|--|---|
| SYMBOL  | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | FIXTURE               | MOUNTING   | HW   | CW   | WASTE     | VENT | ACCESSORIES / REMARKS   |  |   |
| BALL VALVES   | APOLLO / COBRANCO OR EQUAL   | -                     | BALL VALVES           | -          | -    | -    | -         | -    | FULL PORT, BRASS BODY, 600 WOG  |  |    |
| RPZ-1   | -                            | -                     | REDUCED PRESSURE ZONE | -          | -    | 1"   | -         | -    | MAKE AND MODEL NO. AS APPROVED BY LOCAL DEPARTMENT OF WATER.  |  |    |
| WC-1  | TOTO                         | MS604124              | WATER CLOSET          | FLOOR      | -    | 3/4" | 4"        | 2"   | WATER CLOSET: ELONGATED BOWL, TWO-PIECE STANDARD HEIGHT, SINGLE-FLUSH GRAVITY FORCE, 1 GPF.   |  |    |
| FCO   | ZURN                         | Z-CO2450              | FLOOR CLEAN OUT       | FLOOR      | -    | -    | SEE PLANS | -    | MATCH CONNECTED PIPE SIZE UP TO 4". SECONDARY CLOSURE PLUG  |  |    |
| FD-1  | ZURN                         | FD2210                | FLOOR DRAIN           | FLOOR      | -    | -    | 2"        | 2"   | WITH TRAP PRIMER AND SS STOP  |  |    |
| L-1   | AMERICAN STANDARD            | LUCERNE               | LAVATORY              | WALL HUNG  | 1/2" | 1/2" | 2"        | 2"   | WALL HUNG SINK, FAUCET HOLES ON 4"Ø CENTRES, D-SHAPED BOWL, FRONT OVERFLOW, FAUCET LEDGE, MADE OF VITREOUS CHINA  |  |    |
| PIPE HANGERS  | B-LINE OR EQUAL              | 200F                  | PIPE HANGERS          | -          | -    | -    | -         | -    | -   |  |    |
| SK-1  | RUVATI                       | RVU6022               | UTILITY SINK          | TOP MOUNT  | 1/2" | 1/2" | 2"        | 2"   | 12" DEEP, PERFECT AS UTILITY SINK, 16 GAUGE STAINLESS STEEL, COMMERCIAL GRADE BRUSHED FINISH, SOUND PROOF COATING, SHARP INSIDE CORNERS, DROP IN TOP MOUNT INSTALLATION, PROTECTIVE BOTTOM GRID |  |    |
| DF-1  | ELKAY                        | LVRGCRNTL8C           | DRINKING FOUNTAIN     | WALL MOUNT | 1/2" | 1/2" | 2"        | 2"   | ELKAY WALL MOUNT HIGH EFFICIENCY VANDAL RESISTANT BI-LEVEL ADA COOLER FILTERED REFRIGERATOR STAINLESS.  |  |  |
| NOTE:<br>1. REFER TO ARCHITECTURE, OWNERSHIP OR INTERIOR DESIGNER FOR ALL FIXTURE SELECTION AND ACCESSORIES. ALL ARE SUBJECT TO CHANGE. |                              |                       |                       |            |      |      |           |      |   |  |   |

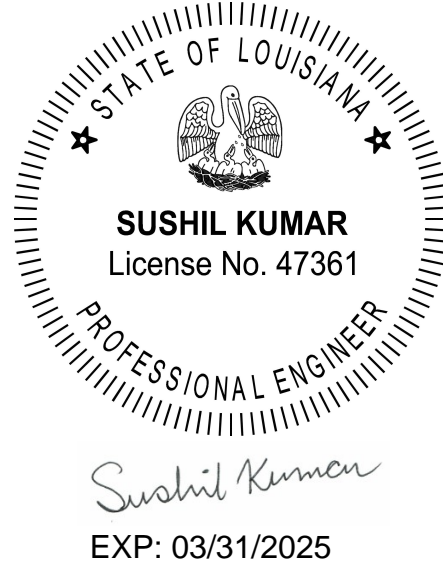
| PLUMBING FIXTURE DEMAND TABULATION |                           |           |      |                        |           |   |       |       |  |       |       |               |
|------------------------------------|---------------------------|-----------|------|------------------------|-----------|---|-------|-------|--|-------|-------|---------------|
| FIXTURE TAG                        | DESCRIPTION               | OCCUPANCY | QTY. | DRAINAGE FIXTURE UNITS | SUB-TOTAL | LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU) |       |       | LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU) |       |       | REMARK        |
|                                    |                           |           |      |                        |           | COLD  | HOT   | TOTAL | COLD   | HOT   | TOTAL |               |
| WC-1                               | WATER CLOSET (FLUSH TANK) | PUBLIC    | 1    | 4                      | 4         | 5   | 0     | 5.0   | 5.0  | 0.0   | 5.0   |               |
| SK-1                               | SERVICE SINK              | PUBLIC    | 1    | 2                      | 2         | 2.250   | 2.250 | 3.0   | 2.250  | 2.250 | 3.0   |               |
| L-1                                | LAVATORY                  | PUBLIC    | 1    | 1                      | 1         | 1.50  | 1.50  | 2.0   | 1.5  | 1.5   | 2.0   |               |
| DF-1                               | DRINKING FOUNTAIN         | PUBLIC    | 1    | 1                      | 1         | 0.3   | 0.0   | 0.3   | 0.3  | 0.0   | 0.3   |               |
| FD-1                               | FLOOR DRAIN               | PUBLIC    | 2    | 2                      | 4         | -   | -     | -     | -  | -     | -     |               |
| TOTALS                             |                           |           |      |                        | 12        | DFU   |       |       | 9.0  | 3.750 | 10.3  | WSFU          |
| DFU = DRAINAGE FIXTURE UNITS       |                           |           |      |                        | EIGHTH    | INCH SLOPE PER FOOT                                     |       |       | 13.7   | 8     | 15.4  | GPM           |
| WSFU = WATER SUPPLY FIXTURE UNITS  |                           |           |      |                        | 4"        | DIAMETER OF PIPE (INCHES)                               |       |       | 1"   | -     | 1"    | INCHES REQ'D. |

| POINT OF USE WATER HEATER SCHEDULE                          |                             |      |               |      |                       |                 |                 |                    |       |       |                          |        |                 |
|---|-----------------------------|------|---------------|------|-----------------------|-----------------|-----------------|--------------------|-------|-------|--------------------------|--------|-----------------|
| SYMBOL  | TYPE                        | QTY. | LOCATION      | AMPS | PIPE FITTING<br>(NPT) | ELECTRICAL DATA |                 | DIMENSIONS (INCH.) |       |       | SHIPPING<br>WEIGHT (LBS) | MODEL  | BASIS OF DESIGN |
|   |                             |      |               |      |                       | Kw              | VOLT/PHASE / HZ | HEIGHT             | WIDTH | DEPTH |                          |        |                 |
| WH-1  | TANKLESS<br>WATER<br>HEATER | 2    | REFER TO PLAN | 20   | 1/2"                  | 4.8             | 240/1/60        | 10.5"              | 5.25" | 3"    | 3                        | RTEH48 | RHEEM           |
| NOTE:<br>1. INSTALL AS PER THE MANUFACTURER'S INSTRUCTIONS. |                             |      |               |      |                       |                 |                 |                    |       |       |                          |        |                 |

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOULA, LA 70454

SEAL & SIGN:



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| NO. | ISSUE/REVISION    | DATE       |

SHEET NAME:

PLUMBING  
SCHEDULES

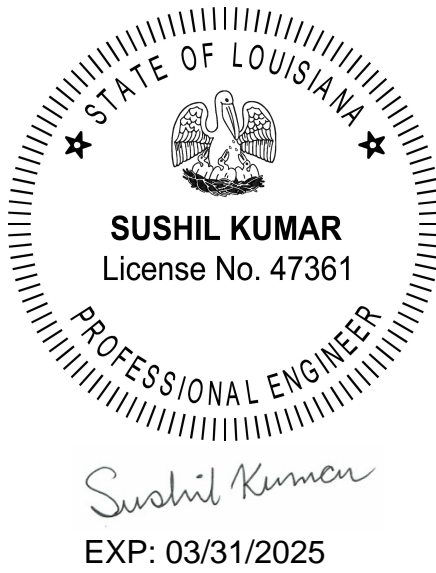
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| CHECKED BY: S.P. |
| DATE: 09/05/2024 |
| SCALE: N.T.S.    |

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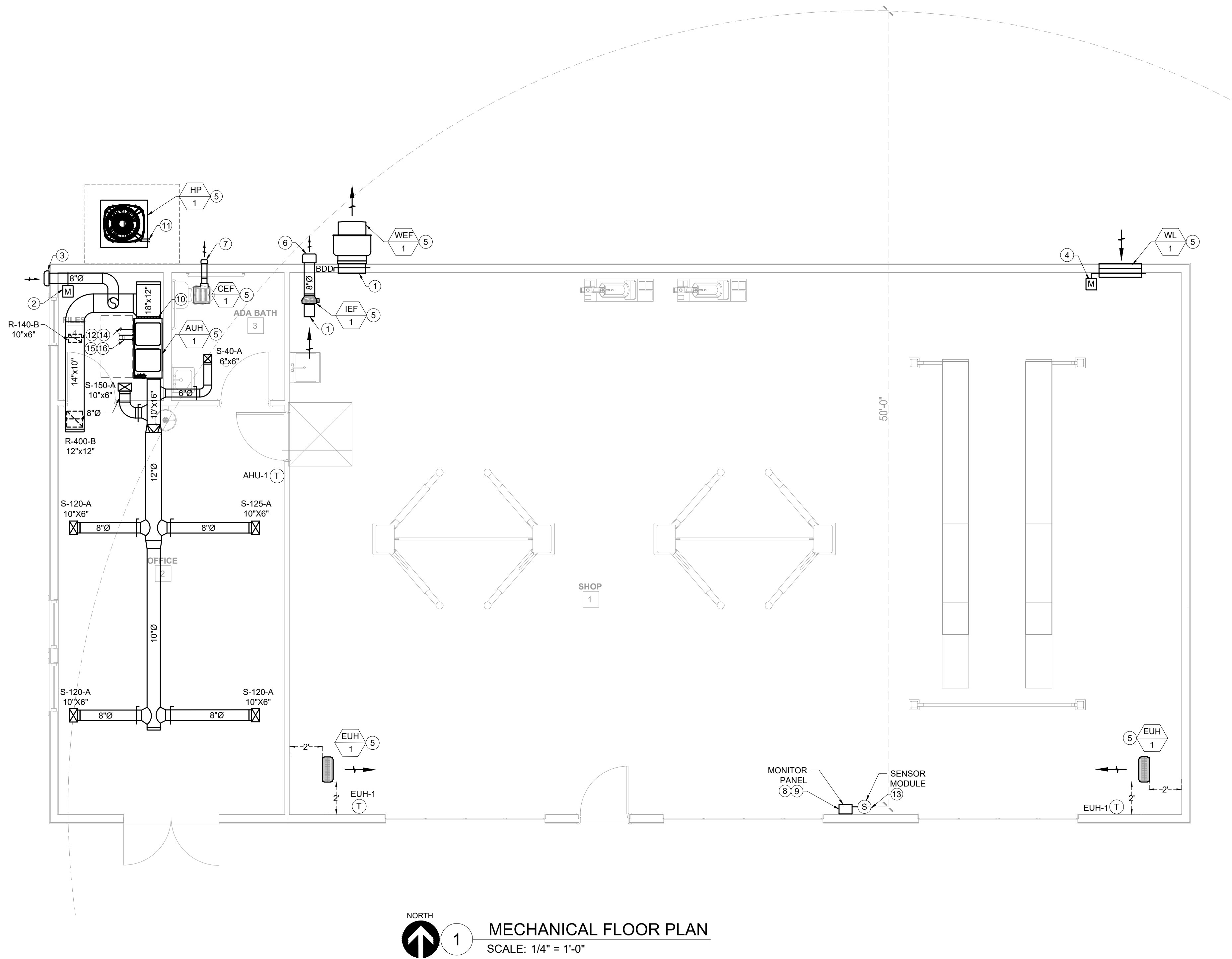






| MECHANICAL SPECIFICATION   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                   |            |     |                |      |                |      |                  |                  |               |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------------------|------------|-----|----------------|------|----------------|------|------------------|------------------|---------------|
| <p><b>HVAC NOTES :</b></p> <p>23. NO HANGERS OR SUPPORT OF ANY TRADE SHALL PENETRATE THRU ANY NEW OR EXISTING DUCTWORK EITHER FOR TEMPORARY OR PERMANENT PURPOSES.</p> <p>24. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF ALL SUPPLY AND RETURN AIR DEVICE LOCATIONS. ALL MEDIUM PRESSURE ROUND DUCT TAKE-OFFS SHALL BE BELLMOUTH, GASKETED FITTINGS, BUCKLEY "AIR-TITE" OR EQUAL.</p> <p>25. DUCTS AND PLENUMS OPERATING AT STATIC PRESSURES IN EXCESS OF 3 INCHES OF WATER GAUGE (W.G.) SHALL BE LEAK TESTED IN ACCORDANCE WITH SMACNA.</p> <p>26. PROVIDE BALANCING DAMPERS (VOLUME DAMPERS) AT POINTS ON RETURN &amp; EXHAUST SYSTEMS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING. ALL LOW PRESSURE SUPPLY BRANCH DUCTS SHALL BE PROVIDED WITH "EXTRACTOR" DAMPERS WITH LOCKING RODS. ALL INACCESSIBLE VOLUME DAMPERS INSTALLED ABOVE NON-ACCESSIBLE CEILINGS (I.E. FINISHED GYP BOARD) SHALL BE INSTALLED WITH REMOTE ADJUSTABLE OPERATORS COMPLETE WITH ALL PERTINENT LINKAGES, ETC. TO LOCATIONS AS APPROVED BY THE ARCHITECT.</p> <p>27. CONSTRUCT BENDS AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE, OR USE SQUARE THROAT ELBOWS WITH TURNING VANES.</p> <p>28. INCREASE DUCT SIZES GRADUALLY NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 30 DEGREES. CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 45 DEGREES.</p> <p>29. ADEQUATE ACCESS IS TO BE PROVIDED TO EASILY CHANGE FILTERS. PROVIDE ONE SPARE SET OF ALL FILTERS.</p> <p>30. ALL KITCHEN EXHAUST HOODS SUPPLIED TO THE PROJECT ARE TO BE RECEIVED &amp; HUNG BY THE CONTRACTOR.</p> <p>31. WHENEVER POSSIBLE, ALL DUCT ELBOWS ON KITCHEN EXHAUST SYSTEMS SHALL BE CONSTRUCTED WITH LONG RADIUS FITTINGS.</p> <p><b>INSTALLATION NOTES :</b></p> <p>1. ALL EQUIPMENT, DUCTWORK, PIPEWORK, ETC SHALL BE SUPPORTED.</p> <p>2. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC. TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES UPSTREAM OF SPLIT.</p> <p>3. MAINTAIN A MINIMUM 6" CLEARANCE BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTION OF RATED WALLS.</p> <p>4. ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.</p> <p>5. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.</p> <p>6. VERIFY AND COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO THE START OF CONSTRUCTION.</p> <p>7. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, DAMPERS, AND EQUIPMENT. PANELS SHALL BE MILCOR, ELMODOR, OR EQUAL. COORDINATE THE LOCATION OF ACCESS PANELS TO ENSURE THAT THE EQUIPMENT CAN BE MAINTAINED ADEQUATELY.</p> <p>8. INSTALL CONDENSATE DRAINS AT A MINIMUM SLOPE OF 1/4" PER FOOT. INDIVIDUAL UNIT CONDENSATE DRAINS SHALL BE 3/4" DIAMETER LINES AND 1" FOR COMBINED LINES UNLESS OTHERWISE INDICATED.</p> <p>9. THE CONTRACTOR SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES INCLUDING EQUIPMENT MOTOR STARTERS, THERMOSTATS, SENSORS, WIRING, BOXES, ETC.</p> <p>10. INSULATE ALL SEWER PIPING RECEIVING AIR CONDITIONING CONDENSATE DRAINS, OR ANY OTHER COLD LIQUID WHICH MAY CREATE CONDENSATION, FROM POINT OF CONNECTION TO TOP OF CONCRETE SLAB-ON-GRADE.</p> <p>11. MOUNT ALL ROOM THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.</p> <p>12. ALL HVAC SYSTEM THERMOSTATS IN UNITS SHALL BE EQUIPPED WITH ENERGY STAR SEVEN DAY PROGRAMMABLE THERMOSTATS WITH NIGHT SETBACK.</p> <p>13. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDE TO THE OWNER/OWNER'S REPRESENTATIVE AND TO THE INSPECTOR.</p> <p>14. INSTALLING CONTRACTOR SHALL INSTALL HILTI FIRE CAULK ON ALL DUCT AND PIPE PENETRATION GOING THROUGH FIRE RATED ASSEMBLIES. INSTALLATION SHALL BE PER HILTI DETAIL.</p> <p>15. PENETRATION IN FIRE-RESISTANCE-RATED WALLS/PARTITIONS OR HORIZONTAL ASSEMBLIES: PENETRATION FIRESTOPPING SYSTEMS WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WG. FIRE RATING: NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.</p> <p>16. PENETRATIONS IN SMOKE BARRIERS: PENETRATION FIRESTOPPING SYSTEMS WITH RATINGS DETERMINED PER UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.30-INCH WG.</p> <p>17. ACCESSORIES: PROVIDE COMPONENTS FOR EACH PENETRATION FIRESTOPPING SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO MAINTAIN RATINGS REQUIRED. USE ONLY THOSE COMPONENTS SPECIFIED BY PENETRATION FIRESTOPPING SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR CONDITIONS INDICATED.</p> <p><b>TESTING AND BALANCING :</b></p> <p>1. TEST AND BALANCE OF AIR AND HYDRONIC SYSTEM SHALL BE PERFORMED BY A THIRD-PARTY INDEPENDENT CONTRACTOR CERTIFIED BY EITHER AABC (THE ASSOCIATED AIR BALANCE COUNCIL) OR NEBB (NATIONAL ENVIRONMENTAL BALANCING BUREAU). BALANCING AND TESTING SHALL BE PERFORMED BY AABC OR NEBB CERTIFIED TECHNICIANS.</p> <p>2. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S OR NEBB'S STANDARDS FOR TOTAL SYSTEM BALANCE. SUBMIT REPORT IN THE FORMAT PUBLISHED BY AABC OR NEBB.</p> <p>3. MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.</p> <p>4. TAKE AND REPORT TESTING AND BALANCING MEASUREMENTS IN INCH-POUND (IP) UNITS.</p> | <p><b>DUCTWORK INSULATION :</b></p> <p>A. CONCEALED, SUPPLY-AIR, RETURN-AIR, EXHAUST-AIR, OUTDOOR AIR DUCT AND PLENUM INSULATION: MINERAL-FIBER BLANKET (R-6) 1-1/2 INCHES THICK WITH FSK JACKET.</p> <p>B. CONCEALED, TYPE I, COMMERCIAL, KITCHEN HOOD EXHAUST DUCT AND PLENUM INSULATION: FIRE-RATED BLANKET; THICKNESS AS REQUIRED TO ACHIEVE 2-HOUR FIRE RATING.</p> <p>C. EXPOSED, SUPPLY-AIR, RETURN-AIR, EXHAUST-AIR, OUTDOOR AIR DUCT AND PLENUM INSULATION: MINERAL-FIBER BOARD (R-6) 1-1/2 INCHES THICK WITH FSK JACKET.</p> <p>D. EXPOSED SUPPLY-AIR DUCT IN CONDITIONED SPACE SHALL NOT BE INSULATED.</p> <p>E. EXPOSED, TYPE I, COMMERCIAL, KITCHEN HOOD EXHAUST DUCT AND PLENUM INSULATION: FIRE-RATED BOARD; THICKNESS AS REQUIRED TO ACHIEVE 2-HOUR FIRE RATING.</p> <p>F. EXPOSED, OUTDOOR-AIR, DUCT AND PLENUM INSULATION: MINERAL-FIBER BOARD 1-1/2 INCHES (R-6) THICK WITH WEATHERPROOF ALUMINUM JACKET W/ VAPOR BARRIER (3M VENTURE CLAD 1577 CW OR EQUAL).</p> <p>G. SURFACE-BURNING CHARACTERISTICS: FOR INSULATION AND RELATED MATERIALS, AS DETERMINED BY TESTING IDENTICAL PRODUCTS ACCORDING TO ASTM E 84, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND ADHESIVE, MASTIC, TAPES, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.</p> <p>1. INSULATION INSTALLED INDOORS: FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 60 OR LESS.</p> <p>2. INSULATION INSTALLED OUTDOORS: FLAME-SPREAD INDEX OF 75 OR LESS, AND SMOKE-DEVELOPED INDEX OF 150 OR LESS.</p> <p>3. NFPA 90A AND 90B •CALIFORNIA INSULATION QUALITY STANDARDS CA-T052.</p> <p>H. FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250°F TEMPERATURE. PROVIDE SCREW-OPERATED METAL ADJUSTABLE CLAMPING DEVICES. USE TWIST-LOCK TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL CONFORM TO THE APPLICABLE CODE."</p> <p>I. ITEMS NOT INSULATED:</p> <p>1. METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1.</p> <p>2. FACTORY-INSULATED FLEXIBLE DUCTS.</p> <p>3. FACTORY-INSULATED PLENUMS AND CASINGS.</p> <p>4. FLEXIBLE CONNECTORS.</p> <p>5. VIBRATION-CONTROL DEVICES.</p> <p>6. FACTORY-INSULATED ACCESS PANELS AND DOORS.</p> <p><b>PIPING INSULATION :</b></p> <p>A. INDOOR PIPING INSULATION : CONTRACTOR SHALL REVIEW MANUFACTURER'S INSULATION R-VALUE CHART FOR ASSOCIATED PIPE SIZE TO DETERMINE INSULATION THICKNESS.</p> <p>1. REFRIGERANT SUCTION, LIQUID, AND HOT-GAS PIPING: FLEXIBLE ELASTOMERIC 1"THICK OR MINERAL-FIBER, PREFORMED PIPE INSULATION 1" THICK WITH ASJ JACKET.</p> <p>B. OUTDOOR, ABOVEGROUND PIPING INSULATION SCHEDULE.</p> <p>1. REFRIGERANT SUCTION, LIQUID, AND HOT-GAS PIPING: FLEXIBLE ELASTOMERIC OR MINERAL-FIBER, PREFORMED PIPE INSULATION 1" THICK WITH PVC JACKET.</p> <p><b>REFRIGERATION PIPING :</b></p> <p>A. REFRIGERANT PIPING SHALL BE COPPER TUBE ASTM B819, TYPE K OR ASTM B 280, TYPE ACR. PIPING SHALL BE RATED FOR LINE TEST PRESSURE FOR THE REFRIGERANT USED ON THE PROJECT. ALL COPPER PIPING SHALL BE BRAZED USING AWS A5.8 FILLER MATERIAL. THE BRAZING SHALL BE PERFORMED PER AMERICAN WELDING SOCIETY (AWS) STANDARDS. SOLDERED JOINTS SHALL NOT BE USED IN SUCH REFRIGERATION SYSTEMS.</p> | <p><b>IECC GENERAL NOTES :</b></p> <p>1. <b>2021 IECC</b>, ALL EQUIPMENT AND SYSTEMS MUST BE SIZED TO BE NO GREATER THAN NEEDED TO MEET CALCULATED LOADS.</p> <p>2. <b>2021 IECC CLIMATE ZONE-2A</b> FOR THE PROJECT LOCATION: 656 E PINE ST, PONCHATOULA 70454, USA.</p> <p>3. EACH HEATING OR COOLING SYSTEM SERVING A SINGLE ZONE MUST HAVE ITS OWN TEMPERATURE CONTROL DEVICE.</p> <p>4. DESIGN HEATING AND COOING LOADS FOR THE BUILDING MUST BE DETERMINED USING PROCEDURES IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR AN APPROVED EQUIVALENT CALCULATION PROCEDURE.</p> <p>5. THE SYSTEM OR ZONE CONTROL MUST BE A PROGRAMMABLE THERMOSTAT OR OTHER AUTOMATIC CONTROL MEETING THE FOLLOWING CRITERIA:</p> <p>a. CAPABLE OF SETTING BACK TEMPERATURE TO 55°F DURING HEATING AND SETTING UP TO 85°F DURING COOLING.</p> <p>b. CAPABLE OF AUTOMATICALLY SETTING BACK OR SHUTTING DOWN SYSTEMS DURING UNOCCUPIED HOURS USING 7 DIFFERENT DAY SCHEDULES.</p> <p>c. HAVE AN ACCESSIBLE 2-HOUR OCCUPANT OVERRIDE.</p> <p>d. HAVE A BATTERY BACKUP CAPABLE OF MAINTAINING PROGRAMMED SETTINGS FOR AT LEAST 10 HOURS WITHOUT POWER.</p> <p>6. THE SYSTEM MUST SUPPLY OUTSIDE VENTILATION AR AS REQUIRED BY THE BUILDING CODE. IF THE VENTILATION SYSTEM IS DESIGNED TO SUPPLY OUTDOOR-AIR QUANTITIES EXCEEDING THE MINIMUM REQUIRED LEVELS. THE SYSTEM MUST BE CAPABLE OF REDUCING OUTDOOR-AIR FLOW TO THE MINIMUM REQUIRED LEVELS.</p> <p>7. AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:</p> <p>a. SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED NOR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-5 OR R-6. UNCONDITIONED SPACES INCLUDE UNVENTILATED ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES.</p> <p>b. SUPPLY AND RETURN MR DUCTS AND PLENUMS MUST BE INSULATED TO A MINIMUM OF R-8 WHEN LOCATED OUTSIDE THE BUILDING.</p> <p>c. WHEN DUCTS ARE LOCATED WITHIN EXTERIOR COMPONENTS (E.G., FLOORS OR ROOFS) OR IN VENTILATED ATTICS, MINIMUM R-8 INSULATION IS REQUIRED ONLY BETWEEN THE DUCT AND THE BUILDING EXTERIOR.</p> <p>EXCEPTION(S):</p> <p>a. DUCT INSULATION IS NOT REQUIRED ON DUCTS LOCATED WITHIN THE EQUIPMENT.</p> <p>b. DUCT INSULATION IS NOT REQUIRED WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.</p> <p>8. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT. INCLUDING MULTIPLE-ZONE TERMINAL UNITS.</p> <p>9. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS; MESH AND MASTIC SEALING SYSTEMS; OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED '181A-P' FOR PRESSURE SENSITIVE TAPE, '181A-M' FOR MASTIC OR '181A-H' FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '1810-FX' FOR PRESSURE-SENSITIVE TAPE OR '1818-M' FOR MASTIC. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.</p> <p>EXCEPTION(S):</p> <p>a. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES W.G. PRESSURE CLASSIFICATION.</p> <p>10. OPERATION AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION:</p> <p>a. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS.</p> <p>b. EQUIPMENT OPERATION AND MAINTENANCE MANUALS.</p> <p>c. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION.</p> <p>d. INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE.</p> <p>e. DESCRIPTIONS; DESIRED OR FIELD-DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON CONTROL DRAYANGS, AT CONTROL DEVICES, OR, FOR DIGITAL.</p> <p>f. CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.</p> <p>g. COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.</p> <p>11. THERMOSTATS CONTROLLING BOTH HEATING AND COOLING MUST BE CAPABLE OF MAINTAINING A 5°F DEADBAND (A RANGE OF TEMPERATURES WHERE NO HEATING OR COOLING IS PROVIDED).</p> <p>EXCEPTION(S):</p> <p>a. DEADBAND CAPACITY IS NOT REQUIRED IF THE THERMOSTAT DOES NOT HAVE AUTOMATIC CHANGEOVER CAPABILITY BETWEEN HEATING AND COOLING.</p> <p>b. SPECIAL OCCUPANCY OR SPECIAL APPLICATIONS WHERE WIDE TEMPERATURE RANGES ARE NOT ACCEPTABLE AND ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.</p> <p>12. BALANCING DEVICES PROVIDED IN ACCORDANCE WITH BUILDING CODE. ALL AIR BALANCING &amp; TESTING SHALL BE DONE BY AN INDEPENDENT CONTRACTOR.</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                   |            |     |                |      |                |      |                  |                  |               |
| <p>PROJECT FOR:</p> <p>DEVIER ENTERPRISES,LLC</p> <p>TIRE SHOP HWY 22- 656 EAST PINE, PONCHATOULA, LA 70454</p> <p>SEAL &amp; SIGN:</p> <div></div> <table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>ISSUED FOR PERMIT</td><td>09/05/2024</td></tr><tr><td>NO.</td><td>ISSUE/REVISION</td><td>DATE</td></tr></table> <p>SHEET NAME:</p> <p>MECHANICAL SPECIFICATIONS</p> <table><tr><td>DRAWN BY: V.R.</td><td rowspan="4">M0.2</td></tr><tr><td>CHECKED BY: S.P.</td></tr><tr><td>DATE: 09/05/2024</td></tr><tr><td>SCALE: N.T.S.</td></tr></table>  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | ISSUED FOR PERMIT | 09/05/2024 | NO. | ISSUE/REVISION | DATE | DRAWN BY: V.R. | M0.2 | CHECKED BY: S.P. | DATE: 09/05/2024 | SCALE: N.T.S. |
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- MECHANICAL GENERAL NOTES:**
- ALL DUCTWORK SHALL CONFORM TO SMACNA STANDARDS. ALL DUCTWORK SIZES ARE NET INSIDE DIMENSIONS.
  - MECHANICAL CONTRACTOR TO COORDINATE DUCT LAYOUT AND DIMENSIONS WITH FIELD VERIFICATION.
  - ADJUST CEILING DIFFUSER TO FIT AS PER FIELD VERIFICATION.
  - DIFFUSER TO BE INSTALLED WITH SYMMETRY IN ACCORDANCE WITH LIGHTING LAYOUT DESIGN. DIFFUSER SHALL NOT BE OFF CENTER OR MISALIGNED. COORDINATE WITH ARCHITECT FOR APPROVAL.
  - COORDINATE WITH GENERAL CONTRACTOR FOR ALL CONDENSATE DRAIN LINE LOCATION.
  - DUCT WORK SHALL BE INSULATED WITH R-6 FIBERGLASS DUCT WRAP WITH FSK JACKET.

- FLOOR PLAN KEYNOTES:**
- PROVIDE A 3/4" STAINLESS STEEL WIRE MESH.
  - THE MOTORIZED AIR DAMPER SHALL BE FAIL CLOSE AND INTERLOCKED WITH THE AHU. WHEN THE AHU STARTS, THE DAMPER SHALL OPEN AND CLOSE WHEN THE AHU STOPS. PROVIDE CONTROLS AND POWER WIRING AS NEEDED FOR OPERATION.
  - 8"Ø (135 CFM) OA DUCT THROUGH WALL CAP WITH MESH SCREEN. (MANUFACTURER #BROAN, MODEL NO: 643FA OR EQUIVALENT)
  - THE INTAKE DAMPER'S ACTUATOR WILL BE INTERLOCKED WITH THE WALL EXHAUST FAN (WEF-1). WHEN WALL EXHAUST FAN (WEF-1) STARTS, INTAKE DAMPER SHALL OPEN.
  - FIELD COORDINATE THE EXACT LOCATION OF HVAC EQUIPMENT. MAINTAIN CODE REQUIRED, MANUFACTURER'S RECOMMENDED CLEARANCES AT HVAC EQUIPMENT.
  - 8"Ø EA DUCT THROUGH WALL CAP WITH BUILT IN BACK DRAFT DAMPER & BIRD SCREEN. (MANUFACTURER #BROAN, MODEL NO: 643 OR EQUIVALENT)
  - 4"Ø EA DUCT THROUGH WALL CAP WITH SPRING LOADED BACK DRAFT DAMPER & BIRD SCREEN. (MANUFACTURER #BROAN, MODEL NO: 885BL OR EQUIVALENT)
  - INSTALL CO/NOx MONITORING PANEL AT LOCATION SHOWN. REFER TO INSTALLTION MANUAL FOR WIRING BETWEEN PANEL AND SENSORS.
  - THE EXHAUST FAN (WEF-1) SHALL BE INTERLOCKED TO CO/NOx MONITORING PANEL. WHEN THE CO/NOx SENSOR MODULE TURNS ON, THE FAN WILL TURN ON AND VICE VERSA.
  - PROVIDE MERV-8 FILTER KIT CONNECTED WITH AHU RETURN DUCT.
  - ROUTE REFRIGERANT PIPING BETWEEN OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT. PIPE SIZE AND INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
  - TERMINATE CONDENSATE DRAIN PIPE TO NEAREST FLOOR DRAIN WITH INDIRECT CONNECTION.
  - CO/NOx SENSOR MODULE SHALL BE MOUNTED AT HEIGHT AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS.
  - 3/4"Ø INSULATED CONDENSATE DRAIN PIPE (PIPE MATERIAL PVC). PIPE SHALL BE SLOPED MIN. 1/8" PER FT IN DIRECTION OF FLOW.
  - REFRIGERATION PIPING SHALL BE COPPER ASTM B-280 ACR TUBING WITH 1/2" THICK PIPE INSULATION.
  - ROUTE REFRIGERANT PIPING BETWEEN INDOOR UNIT TO ASSOCIATED OUTDOOR UNIT. PIPE SIZES PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

- SEQUENCE OF OPERATION FOR CO/NOx SENSOR INTERLOCKED WITH EXHAUST FANS**
- ALARM LEVEL:**
    - SHALL INITIATE WHEN CO LEVEL REACHES 25 PPM OR NO2 LEVEL REACHES 1 PPM.
    - CO/NO2 SENSOR SHALL ACTUATE EXHAUST FAN AND OUTSIDE AIR LOUVER DAMPER. DAMPER SHALL OPEN AND FAN SHALL OPERATE AT FULL SPEED.
    - FAN SHALL OPERATE FOR A MINIMUM OF 30 MINUTES AFTER CO/NOx LEVEL DROPS BELOW PRE-ALARM LEVEL.
  - WARNING LEVEL:**
    - SHALL INITIATE WHEN CO LEVEL REACHES 100 PPM OR NO2 LEVEL REACHES 3 PPM.
    - CO/NO2 SENSOR SHALL ACTUATE EXHAUST FAN AND OUTSIDE AIR LOUVER DAMPER. DAMPER SHALL OPEN AND FAN SHALL OPERATE AT FULL SPEED.
    - STROBE/HORN SHALL GO OFF AND BUILDING EVACUATION ALARM SHALL BE GENERATED.

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOULA, LA 70454

SEAL & SIGN:



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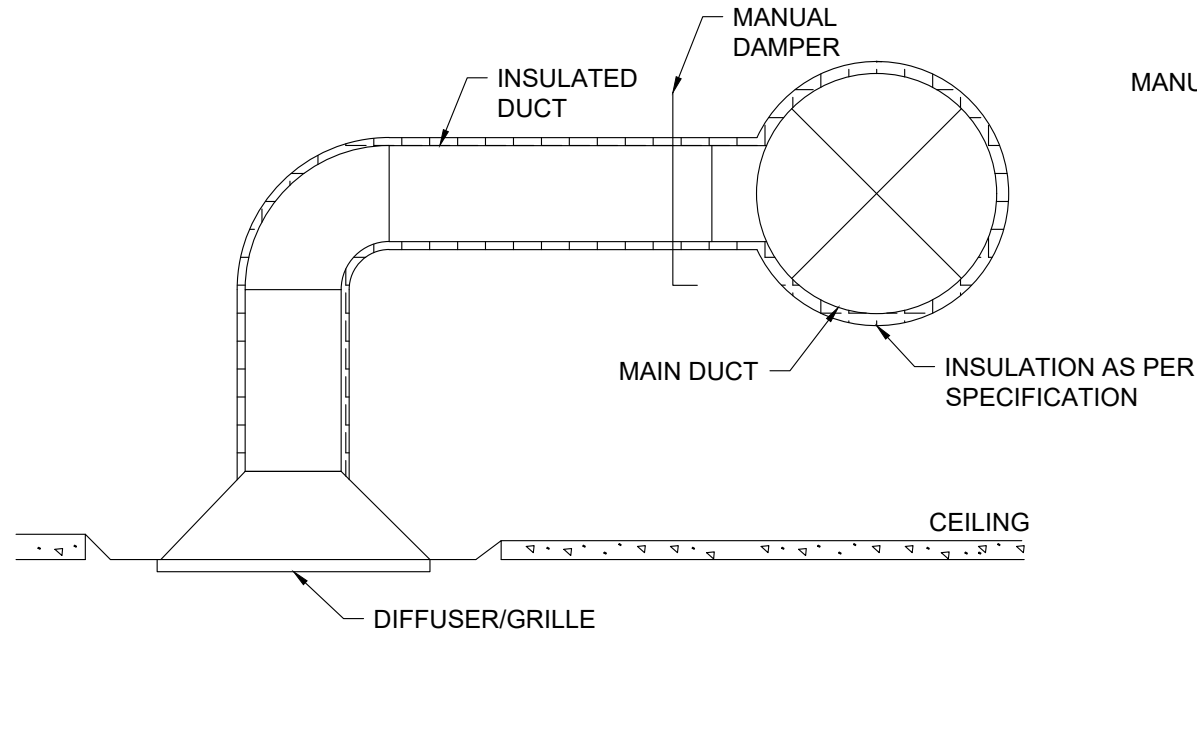
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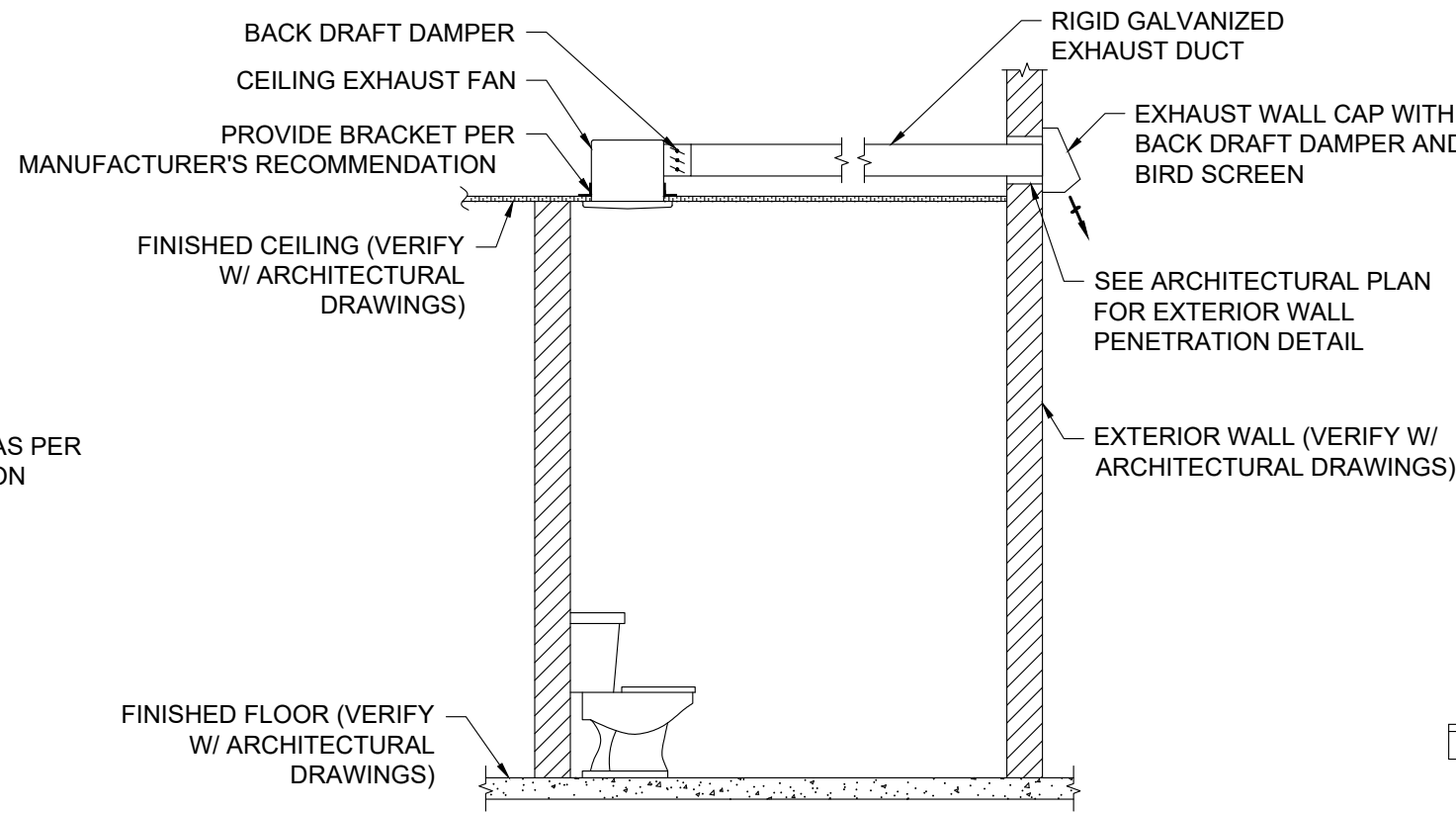
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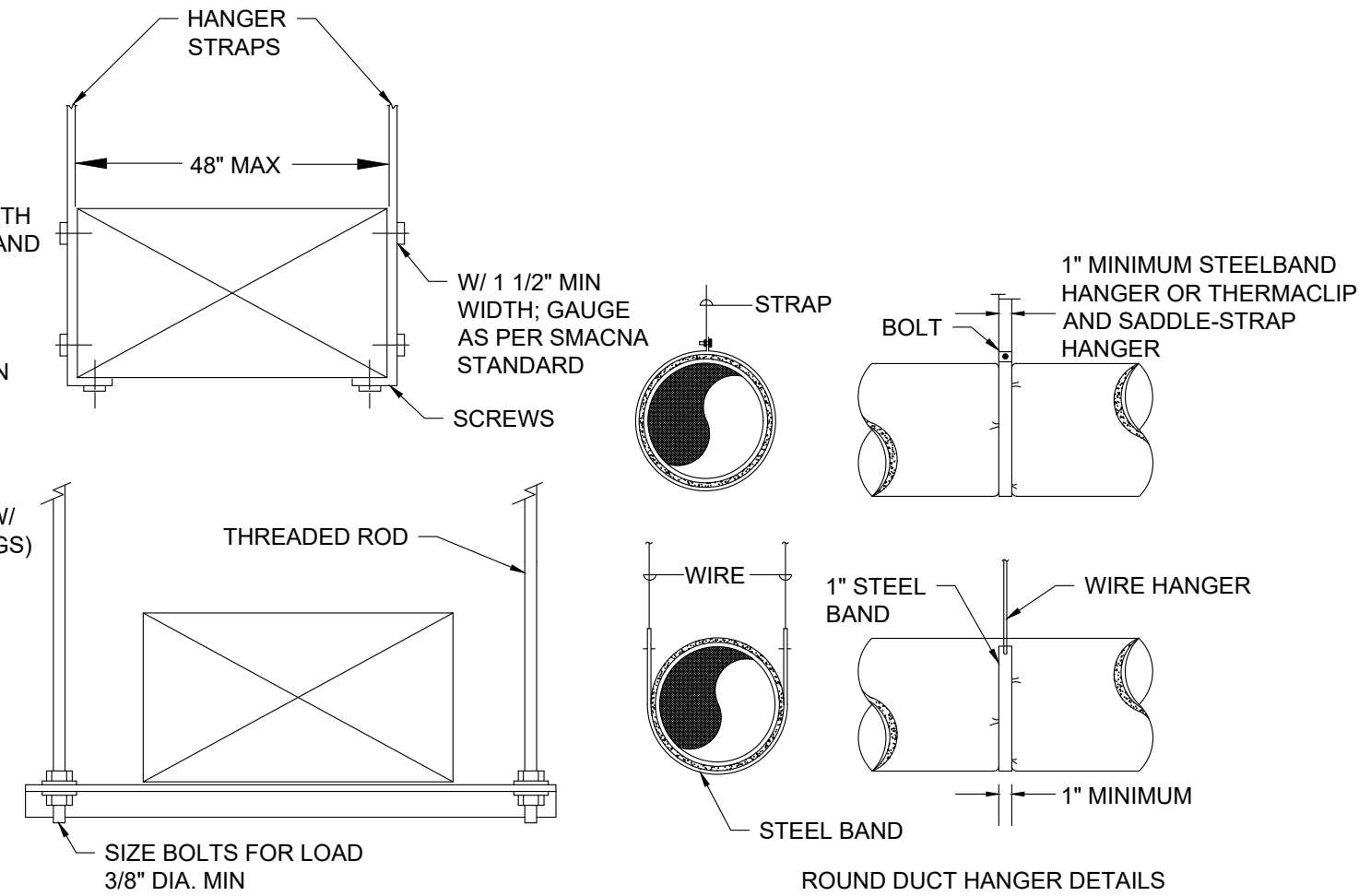




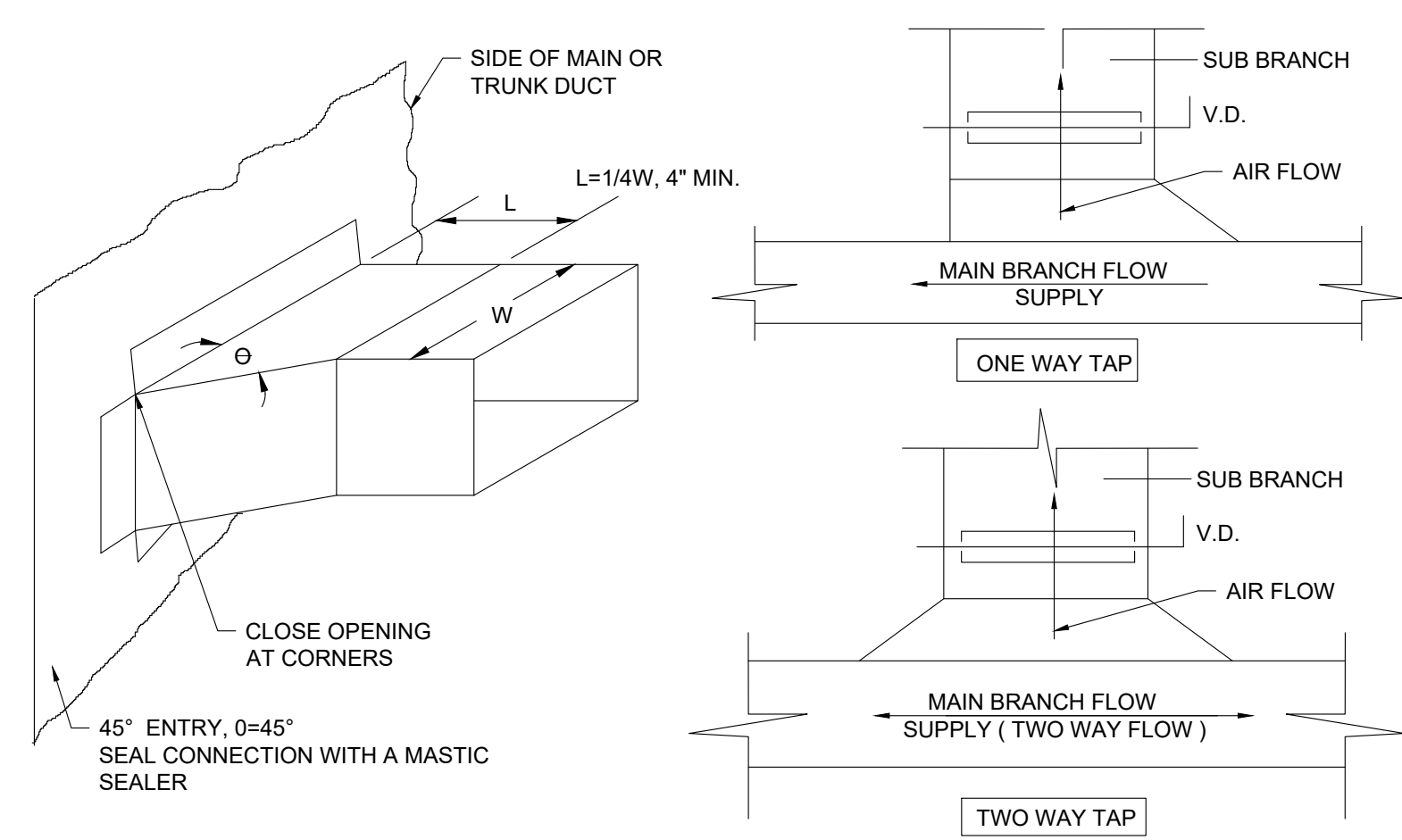
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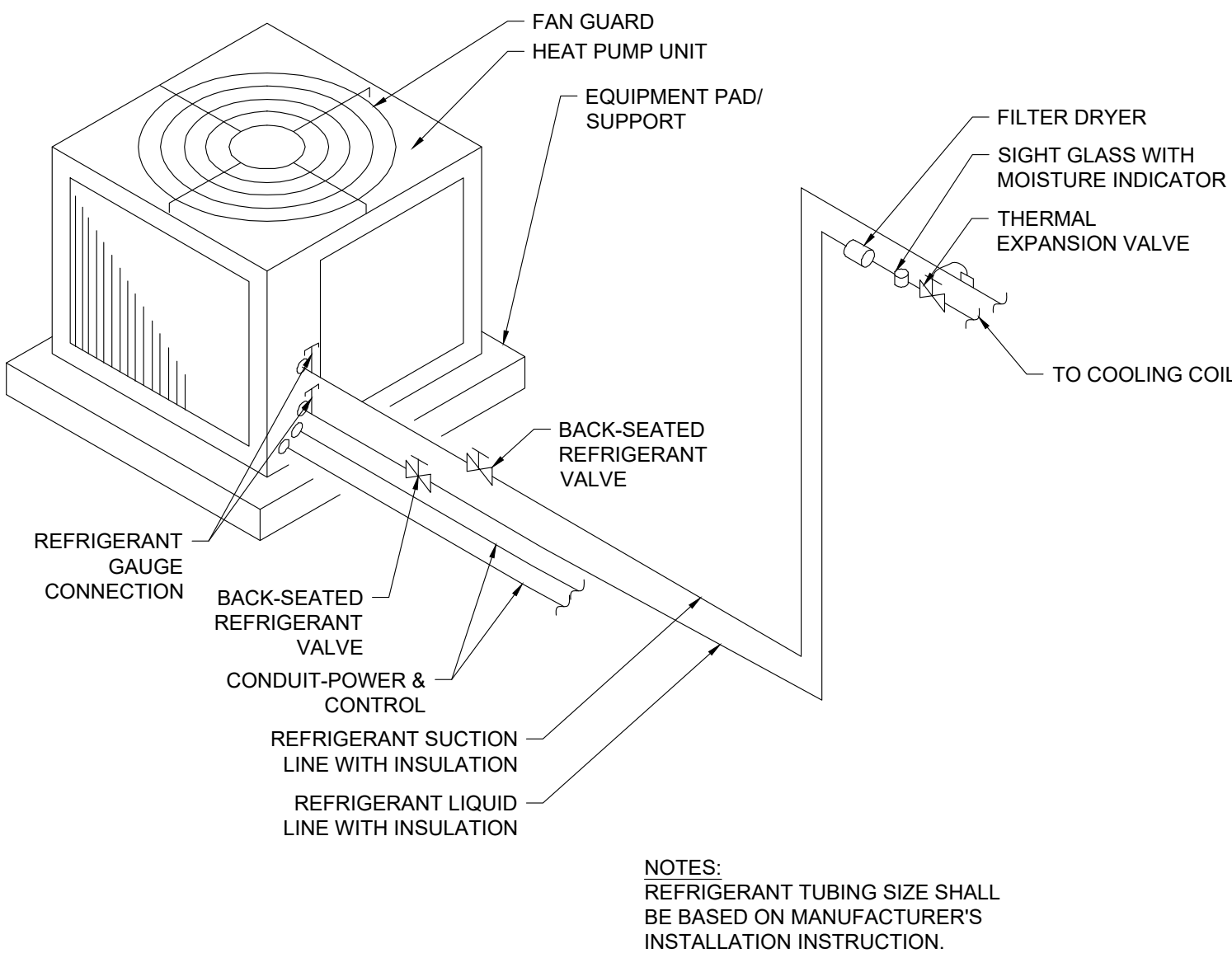
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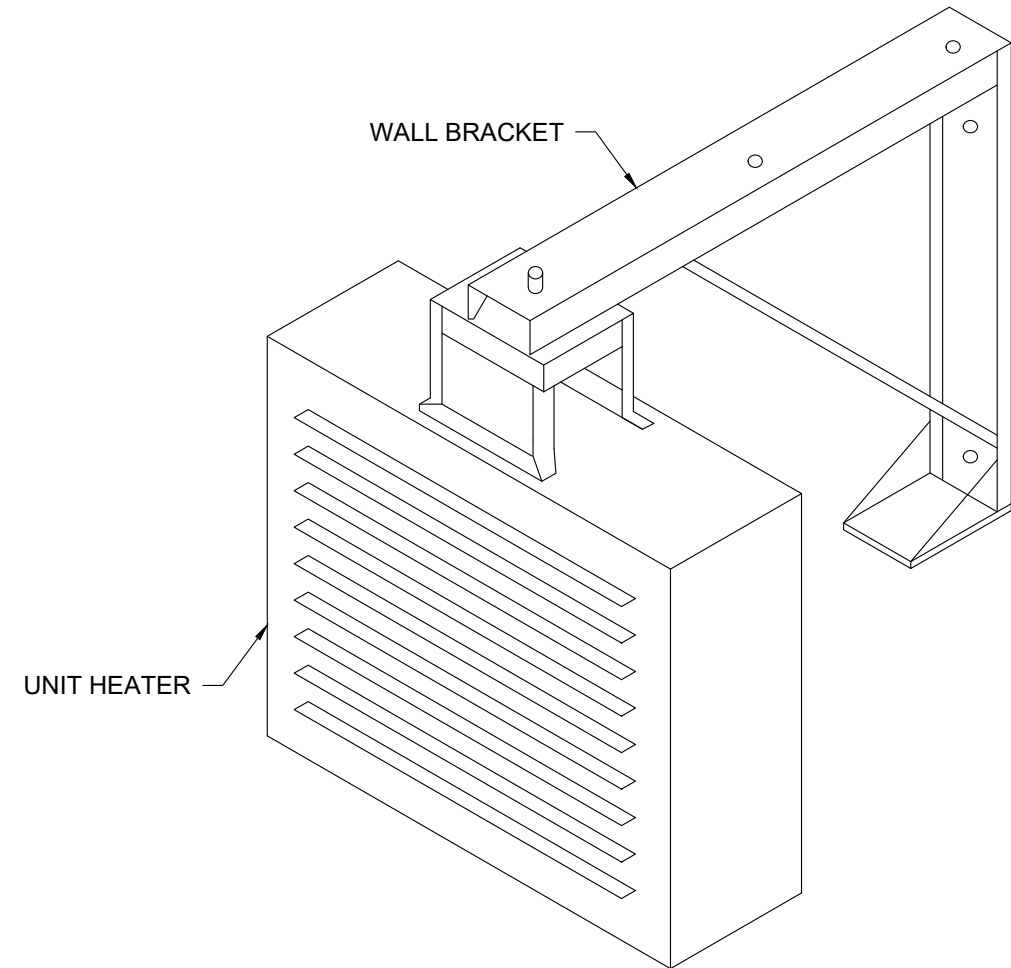
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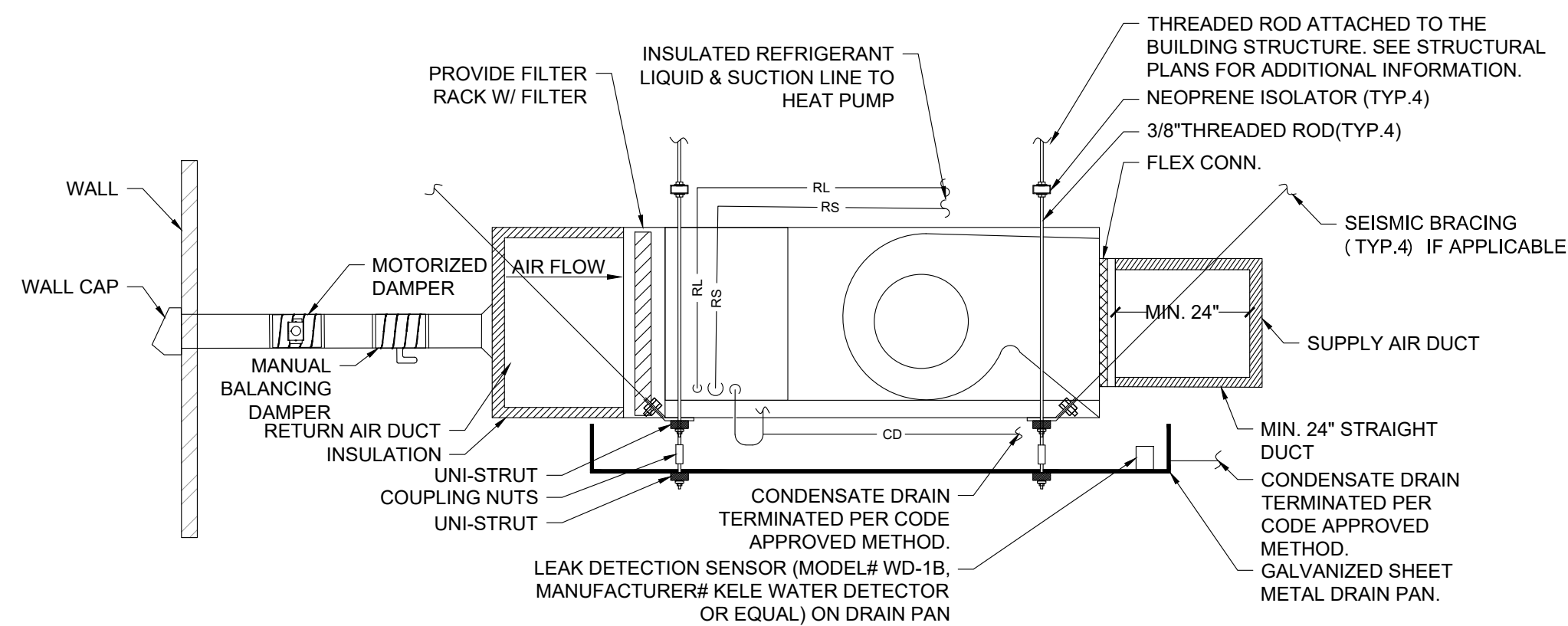
1 TYPICAL BRANCH CONNECTION DETAILS  
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7 HEAT PUMP INSTALLATION DETAIL  
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6 ELECTRIC UNIT HEATER INSTALLATION DETAIL  
SCALE: N.T.S.



- NOTES:
1. PROVIDE SUPPORT PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION OF THE HVAC UNIT.
  2. THE MOTORIZED AIR DAMPER SHALL BE FAIL CLOSE AND INTERLOCKED WITH THE AHU. WHEN THE AHU STARTS, THE DAMPER SHALL OPEN AND CLOSE WHEN THE AHU STOPS. PROVIDE CONTROLS AND POWER WIRING AS NEEDED FOR OPERATION.
  3. CONTRACTOR SHALL INSTALL THE UNIT SO THAT THE THREADED ROD AND UNI-STRUT SUPPORTS SHOULD NOT BLOCK ACCESS TO THE FRONT PANEL AND AN OTHER CRITICAL COMPONENT OF THE UNIT.

5 AIR HANDLER UNIT INSTALLATION DETAIL  
SCALE: N.T.S.

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
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SCALE: N.T.S.

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| AIR HANDLING UNIT SCHEDULE  |            |      |             |                              |                              |                       |                  |                        |                        |        |                        |                |                          |            |                           |         |          |           |                      |          |          |            |                       |                             |            |                 |
|---|------------|------|-------------|------------------------------|------------------------------|-----------------------|------------------|------------------------|------------------------|--------|------------------------|----------------|--------------------------|------------|---------------------------|---------|----------|-----------|----------------------|----------|----------|------------|-----------------------|-----------------------------|------------|-----------------|
| TAG   | TYPE       | QTY. | REFRIGERANT | RATED COOLING CAPACITY (MBH) | RATED HEATING CAPACITY (MBH) | SUPPLY AIR FLOW (CFM) | E.S.P. (IN. W.C) | OUTSIDE AIR FLOW (CFM) | COIL SECTION           |        |                        | BLOWER SECTION |                          |            | ELECTRICAL HEATER SECTION |         |          |           | UNIT ELECTRICAL DATA |          |          |            | SHIPPING WEIGHT (LBS) | DIMENSION (IN.) (W X D X H) | MODEL NO.  | BASIS OF DESIGN |
|   |            |      |             |                              |                              |                       |                  |                        | REFRIGERANT LINE (IN.) |        | DRAIN CONNECTION (IN.) | QTY.           | (DIAMETER X WIDTH) (IN.) | MOTOR (HP) | CAPACITY (KW)             | MCA (A) | MOCP (A) | MODEL     | MCA (A)              | MOCP (A) | V/Ph/Hz  | DISCONNECT |                       |                             |            |                 |
|   |            |      |             |                              |                              |                       |                  |                        | SUCTION                | LIQUID |                        |                |                          |            |                           |         |          |           |                      |          |          |            |                       |                             |            |                 |
| AHU-1   | HORIZONTAL | 1    | R-410A      | 24                           | 24                           | 675                   | 0.5              | 135                    | 3/4"                   | 3/8"   | 3/4"                   | 1              | 10"Ø X 6"                | 3/4        | 4.8                       | 30.8    | 35       | HKTSN05X1 | 5.8                  | 15       | 240/1/60 | BY E.C..   | 112                   | 17 9/16" x 21" x 45"        | AMST24BU14 | GOODMAN         |
| NOTES:<br>1. UNIT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS & PROVIDE 24" CLEARANCE IN FRONT OF THE UNIT & ADDITIONAL CLEARANCE FOR ELECTRICAL CONNECTION AS RECOMMENDED.<br>2. THE RETURN AIR FILTER KIT SHALL BE PROVIDED.<br>3. UNIT SHALL BE SUPPLIED WITH THE ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM.<br>4. ELECTRICAL WORK MUST BE PERFORMED IN ACCORDANCE WITH RELEVANT LOCAL AND NATIONAL REGULATIONS AND WITH INSTRUCTIONS IN THE INSTALLATION MANUAL. |            |      |             |                              |                              |                       |                  |                        |                        |        |                        |                |                          |            |                           |         |          |           |                      |          |          |            |                       |                             |            |                 |

| HEAT PUMP SCHEDULE   |               |      |              |      |      |                              |                              |                      |                        |        |                 |        |      |            |               |               |                 |          |          |            |                       |                             |             |                 |
|--|---------------|------|--------------|------|------|------------------------------|------------------------------|----------------------|------------------------|--------|-----------------|--------|------|------------|---------------|---------------|-----------------|----------|----------|------------|-----------------------|-----------------------------|-------------|-----------------|
| TAG  | ASSOCIATED TO | QTY. | REFRIGE RANT | SEER | HSPF | RATED COOLING CAPACITY (MBH) | RATED COOLING CAPACITY (MBH) | ENTERING AIR DB (°F) | REFRIGERANT LINE (IN.) |        | COMPRESSOR DATA |        |      |            | CONDENSOR FAN |               | ELECTRICAL DATA |          |          |            | SHIPPING WEIGHT (LBS) | DIMENSION (IN.) (W X D X H) | MODEL NO.   | BASIS OF DESIGN |
|  |               |      |              |      |      |                              |                              |                      | SUCTION                | LIQUID | TYPE            | STAGES | QTY. | RLA (AMPS) | FAN QTY.      | MOTOR FLA (A) | MCA (A)         | MOCP (A) | V/Ph/Hz  | DISCONNECT |                       |                             |             |                 |
| HP-1   | AHU-1         | 1    | R-410A       | 17.2 | 8.2  | 24                           | 24                           | 81.8                 | 3/4"                   | 3/8"   | SCROLL          | 2      | 1    | 10.2       | 1             | 2.8           | 16.4            | 25       | 240/1/60 | BY E.C.    | 239                   | 35-1/2" x 35-1/2" x 39-1/2" | GSZC702410A | GOODMAN         |
| NOTES:<br>1. COORDINATE WITH THE STRUCTURE FOR THE EXACT LOCATION BEFORE INSTALLING THE UNIT ON THE ROOF/GRADE.<br>2. ELECTRICAL WORK MUST BE PERFORMED IN ACCORDANCE WITH RELEVANT LOCAL AND NATIONAL REGULATIONS AND WITH INSTRUCTIONS IN THE INSTALLATION MANUAL.<br>3.UNIT & IT'S INSULATED REFRIGENAT PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. |               |      |              |      |      |                              |                              |                      |                        |        |                 |        |      |            |               |               |                 |          |          |            |                       |                             |             |                 |

| VENTILATION SCHEDULE - 2021 INTERNATIONAL MECHANICAL CODE       |               |                          |                   |                           |                                   |                              |                           |                           |  |                                      |                           |                   |       |                         |            |             |                            |           |
|---|---------------|--------------------------|-------------------|---------------------------|-----------------------------------|------------------------------|---------------------------|---------------------------|--|--------------------------------------|---------------------------|-------------------|-------|-------------------------|------------|-------------|----------------------------|-----------|
| SR.NO   | NAME          | OCCUPANCY CLASSIFICATION | FLOOR AREA (S.F.) | OCCUPANTS PER 1000 SQ.FT. | OCCUPANTS (ACTUAL) P <sub>2</sub> | REQUIRED OUTSIDE AIR EXHAUST |                           |                           |  |                                      |                           |                   |       | ACTUAL ROOM VENTILATION |            |             |                            | EQUIPMENT |
|   |               |                          |                   |                           |                                   | CFM/ PERSON R <sub>p</sub>   | CFM/SQ.FT. R <sub>a</sub> | TOTAL O.A V <sub>ex</sub> | ZONE AIR DISTRIBUTION EFFECTIVENESS E <sub>z</sub> | ZONE OUTDOOR AIRFLOW V <sub>ex</sub> | EXHAUST RATE (CFM/SQ.FT.) | TOTAL EXHAUST CFM | TOTAL | % O.A.                  | TOTAL O.A. | EXHAUST CFM |                            |           |
|   |               |                          |                   |                           |                                   |                              |                           |                           |  |                                      |                           |                   |       |                         |            |             |                            |           |
| 2   | 1_SHOP AREA   | REPAIR GARAGES           | 1905              | 0                         | 0                                 | 0.0                          | 0                         | 0                         | 0.8  | 0                                    | 0.75                      | 100               | 0     | 0                       | 0          | 100         | EUH-1, IEF-1, AHU-1, CEF-1 |           |
| 3   | 2_OFFICE AREA | OFFICE SPACES            | 365               | 5                         | 4                                 | 5.0                          | 0.06                      | 42                        | 0.8  | 52                                   | -                         | -                 | 485   | 20                      | 97         | -           |                            |           |
| 4   | 3_ADA BATH    | TOILETS-PUBLIC           | 55                | 0                         | 0                                 | 0.0                          | 0                         | 0                         | 0.8  | 0                                    | -                         | 50                | 40    | 20                      | 8          | 50          |                            |           |
| 5   | 4_FILES       | STORAGE ROOM             | 95                | 0                         | 0                                 | 0.0                          | 0.12                      | 11                        | 0.8  | 14                                   | -                         | -                 | 150   | 20                      | 30         | -           |                            |           |
| TOTAL   |               |                          | 2420              |                           |                                   |                              |                           |                           |  |                                      |                           |                   | 675   |                         | 135        | 150         |                            |           |
| NOTE:<br>1.) COORDINATED WITH TABLE 6.2.2.1 (ASHRAE & IMC 2021) |               |                          |                   |                           |                                   |                              |                           |                           |  |                                      |                           |                   |       |                         |            |             |                            |           |



| INLINE EXHAUST FAN SCHEDULE  |      |        |                   |                     |                 |          |                             |                 |       |                    |
|--|------|--------|-------------------|---------------------|-----------------|----------|-----------------------------|-----------------|-------|--------------------|
| TAG  | QTY. | TYPE   | FAN DATA          |                     | ELECTRICAL DATA |          | DIMENSION (IN.)<br>(W X D ) | WEIGHT<br>(LBS) | MODEL | BASIS OF<br>DESIGN |
|  |      |        | AIR FLOW<br>(CFM) | E.S.P.<br>(IN W.C.) | WATTS           | V/Ph/Hz  |                             |                 |       |                    |
| IEF-1  | 1    | INLINE | 100               | 0.5                 | 25              | 120/1/60 | 8-1/2" x 8-1/2"             | 7               | FG-4  | FANTECH            |
| NOTES:<br>1. TO AVOID MOTOR BEARING DAMAGE AND NOISY OR UNBALANCED IMPELLERS KEEP DRYWALL SPRAY, CONSTRUCTION DUST ETC. AWAY FROM THE UNIT.<br>2. FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.<br>3. THE COLOUR AND FINISH OF THE GRILLE, WALL CAP, AND ROOF CAP WILL BE FINALIZED BY THE OWNER/ARCHITECT. |      |        |                   |                     |                 |          |                             |                 |       |                    |

| CEILING EXHAUST FAN SCHEDULE   |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |
|--|------|--------------------|-------------------|---------------------|------------------|------|--------------|--------------------------------|-----------------|-------|--------------------|
| TAG  | QTY. | TYPE               | FAN DATA          |                     | ELECTRICAL DATA  |      |              | DIMENSION (IN.)<br>(W X D X H) | WEIGHT<br>(LBS) | MODEL | BASIS OF<br>DESIGN |
|  |      |                    | AIR FLOW<br>(CFM) | E.S.P.<br>(IN W.C.) | POWER<br>(WATTS) | AMPS | V / Ph / Hz  |                                |                 |       |                    |
| CEF-1  | 1    | CEILING<br>MOUNTED | 50                | 0.1                 | 20               | 0.2  | 120 / 1 / 60 | 12" x 11-1/2" x 5-3/4"         | 10              | AE50  | BROAN              |
| NOTES:   |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |
| 1. TO AVOID MOTOR BEARING DAMAGE AND NOISY OR UNBALANCED IMPELLERS KEEP DRYWALL SPRAY, CONSTRUCTION DUST, ETC. AWAY FROM THE UNIT. |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |
| 2. FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.  |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |
| 3. COLOUR & FINISH OF THE GRILLE, WALL CAP & ROOF CAP WILL BE FINALIZED BY THE OWNER/ ARCHITECT.                                   |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |
| 4. MOTOR SHALL BE DESIGN FOR CONTINUOUS OPERATION.   |      |                    |                   |                     |                  |      |              |                                |                 |       |                    |

| STANDALONE GAS MONITOR AND SENSOR SCHEDULE |  |
|--|--|
| GAS MONITOR                                |  |
| MODEL NUMBER                               | TOXALERT : TOXC-2                      |
| DETECTABLE GASES                           | CO & NO <sub>2</sub>                   |
| QTY OF MONITOR                             | 1                                      |
| CALIBRATION                                | 0-200 ppm CO/ 0-10 ppm NO <sub>2</sub> |
| SUPPLY VOLTAGE                             | 20A, 120-220 VAC,60 Hz                 |
| COVERAGE AREA                              | 7800 SQ.FT                             |
| GAS SENSOR                                 |  |
| MODEL NUMBER                               | TOXEC-CO/NO2                           |
| DETECTABLE GASES                           | CO & NO <sub>2</sub>                   |
| SENSOR TYPE                                | ELECTRO-CHEMICAL                       |
| QTY OF SENSOR                              | 1                                      |
| SENSOR LOCATION                            | WALL MOUNTED                           |
| RANGE                                      | 0-200 ppm CO/ 0-10 ppm NO <sub>2</sub> |
| STANDARD TRIP POINTS                       | 1 PPM CO, 0.1 PPM NO2                  |
| OPERATING TEMPERATURE                      | -4°F TO 122°F                          |
| OPERATING HUMIDITY                         | 0-95% RH NON CONDENSING                |
| COVERAGE AREA                              | 50' RADIUS                             |
| DIMENSION                                  | 4.9" W X 7.2" H X 2.2" D               |

| ELECTRIC UNIT HEATER SCHEDULE  |             |     |          |                  |                 |     |     |      |               |        |        |                        |       |                 |       |
|--|-------------|-----|----------|------------------|-----------------|-----|-----|------|---------------|--------|--------|------------------------|-------|-----------------|-------|
| TAG  | LOCATION    | QTY | AIR FLOW | HEATING CAPACITY | ELECTRICAL DATA |     |     |      | DIMENSION(IN) |        |        | SHIPPING WEIGHT (LBS.) | MODEL | BASIS OF DESIGN |       |
|  |             |     | CFM      | BTU/HR           | VOLT            | PH. | HZ. | AMPS | CAPACITY (KW) | LENGTH | DEPTH  | HEIGHT                 |       |                 |       |
| EUH-1  | SEE IN PLAN | 2   | 650      | 34100            | 240             | 1   | 60  | 42   | 10            | 19"    | 7 1/2" | 21 3/4"                | 38    | MUH-10-2        | QMARK |
| NOTES:<br>1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.<br>2. PROVIDE DISCONNECT SWITCH AND THERMOSTAT. |             |     |          |                  |                 |     |     |      |               |        |        |                        |       |                 |       |

| LOUVER SCHEDULE  |      |             |                             |                |                          |                  |        |                         |                          |               |       |          |                 |
|--|------|-------------|-----------------------------|----------------|--------------------------|------------------|--------|-------------------------|--------------------------|---------------|-------|----------|-----------------|
| TAG  | QTY. | APPLICATION | TYPE                        | AIR FLOW (CFM) | PRESSURE DROP (IN. W.C.) | DIMENSIONS (IN.) |        | MIN.FREE AREA (SQ. FT.) | FREE AREA VELOCITY (FPM) | ACTUATOR DATA |       | MODEL    | BASIS OF DESIGN |
|  |      |             |                             |                |                          | WIDTH            | HEIGHT |                         |                          | POWER         | MODEL |          |                 |
| WL-1   | 1    | INTAKE      | COMBINATION LOUVER & DAMPER | 1910           | 0.025                    | 48"              | 40"    | 4.16                    | 456                      | 24 VAC        | AFBUP | EACC-401 | GREENHECK       |
| NOTES:<br>1. CUSTOM FINISH AND COLOR AS SELECTED BY ARCHITECT/OWNER.<br>2. LOUVER AND DAMPER FRAME SHALL BE MADE OF MIN. 0.125" THICK EXTRUDED ALUMINUM SECTION.<br>3. DAMPER BLADES SHALL HAVE A DRAINABLE DESIGN & POSITIONED AT 45° ANGLE TO PREVENT WATER LEAKAGE.<br>4. LOUVER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.<br>5. DAMPER SHALL HAVE A TIGHT SEAL FOR PREVENTING AIRFLOW IN THE CLOSED POSITION.<br>6. LOUVER SHALL BE SUPPLIED WITH AN INSECT SCREEN MADE OUT OF STAINLESS STEEL.<br>7. MECHANICAL CONTRACTOR SHALL PROVIDE THE INTERLOCKING ARRANGEMENT WITH THE EXHAUST FAN STARTER FOR THE ACTUATOR CONTROL.<br>8. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PROVISION TO OPERATE THE DAMPER ACTUATOR MOTOR. |      |             |                             |                |                          |                  |        |                         |                          |               |       |          |                 |

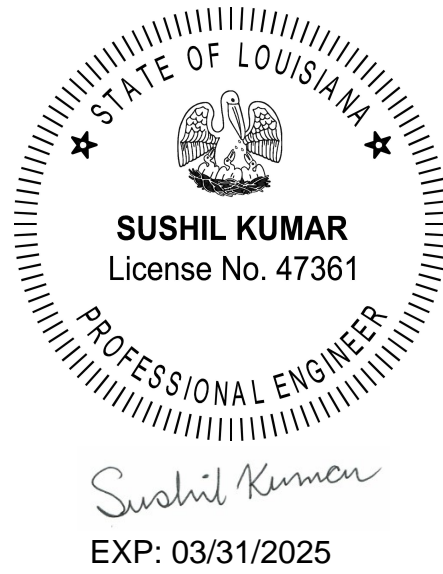
| AIR DEVICE SCHEDULE   |         |                       |                                      |   |   |           |                 |         |   |  |
|---|---------|-----------------------|--------------------------------------|---|---|-----------|-----------------|---------|---|--|
|   |         |                       | NOMENCLATURE                         | U = USAGE (S = SUPPLY, R = RETURN, E = EXHAUST, T = TRANSFER) |   |           |                 | EXAMPLE | REFERENCE IMAGE   |  |
|   |         |                       | U-CFM-T<br>SIZE                      | CFM = AIR QUANTITY  | T = TYPE OF AIR DEVICE                                |           | S-150-A<br>8"Ø  |         |   |  |
| TYPE  | SERVICE | NECK SIZE             | PANEL/FACE SIZE                      | MATERIAL  | DESCRIPTION   | MODEL NO. | BASIS OF DESIGN | NOTES   |   |  |
| A   | SUPPLY  | 10" X 6"<br>6" X 6"   | 11 3/4" X 7 3/4"<br>7 3/4" X 7 3/4"  | STEEL   | 3/4" BLADE<br>SPACING, SINGLE<br>DEFLECTION<br>GRILLE | 301FL     | TITUS           | 1,2,3,4 |  |  |
| B   | RETURN  | 12" X 12"<br>10" X 6" | 13 3/4" X13 3/4"<br>11 3/4" X 7 3/4" | STEEL   | 3/4" BLADE<br>SPACING                                 | 350RL     | TITUS           | 1,2,3,4 |  |  |
| NOTES:<br>1. FINISH & COLOR AS SELECTED BY THE ARCHITECT / OWNER.<br>2. PROVIDE A BALANCING DAMPER OPERABLE FROM BELOW THE CEILING.<br>3. PROVIDE FOAM GASKET SEAL & INSULATED PLENUM/BACK PAN.<br>4. THE ARCHITECT/OWNER SHALL SELECT THE DIFFUSER/GRILLE BASED ON THE DRYWALL CEILING |         |                       |                                      |   |   |           |                 |         |   |  |

| WALL EXHAUST FAN SCHEDULE  |      |                           |                   |                     |                 |          |                               |                 |          |                    |
|--|------|---------------------------|-------------------|---------------------|-----------------|----------|-------------------------------|-----------------|----------|--------------------|
| TAG  | QTY. | DRIVE TYPE                | FAN DATA          |                     | ELECTRICAL DATA |          | DIMENSION (IN.)<br>(H X DIA.) | WEIGHT<br>(LBS) | MODEL    | BASIS OF<br>DESIGN |
|  |      |                           | AIR FLOW<br>(CFM) | E.S.P.<br>(IN W.G.) | MOTOR<br>HP     | V/Ph/Hz  |                               |                 |          |                    |
| WEF-1  | 1    | BELT DRIVE<br>CENTRIFUGAL | 1910              | 0.34                | 1/3             | 115/1/60 | 32" X 29"Ø                    | 71              | CUBE-160 | GREENHECK          |
| NOTES:<br>1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.<br>2. FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.<br>3. PROVIDE BACKDRAFT DAMPER, BIRD SCREEN PROTECTION. |      |                           |                   |                     |                 |          |                               |                 |          |                    |

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOULA, LA 70454

SEAL & SIGN:



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| NO. | ISSUE/REVISION    | DATE       |

SHEET NAME:

MECHANICAL  
SCHEDULES

DRAWN BY: V.R.

CHECKED BY: S.P.

DATE: 09/05/2024

SCALE: N.T.S.

M3.0



| ELECTRICAL LEGEND   |  |  |
|---|--|--|
| POWER   | FIRE ALARM   | ELECTRICAL ABBREVIATIONS   |
| ABOVE COUNTER QUADPLEX RECEPTACLE<br>ABOVE COUNTER DUPLEX RECEPTACLE<br>QUADPLEX RECEPTACLE<br>DUPLEX RECEPTACLE<br>GFI ABOVE COUNTER QUADPLEX RECEPTACLE<br>GFI ABOVE COUNTER DUPLEX RECEPTACLE<br>GFI QUADPLEX RECEPTACLE<br>GFI DUPLEX RECEPTACLE<br>WEATHER PROOF/GFI DUPLEX RECEPTACLE<br>FLOOR DUPLEX RECEPTACLE<br>GFI FLOOR DUPLEX RECEPTACLE<br>PANELBOARD<br>HARD WIRE CONNECTION (WALL, CEILING/ FLOOR MOUNTED)<br>SURGE PROTECTION DEVICE<br>DIRECT EQUIPMENT CONNECTION WITH THERMAL RATED DISCONNECT SWITCH | FIRE ALARM AUDIBLE / VISUAL ANNUNCIATION DEVICE<br>FIRE ALARM SMOKE DETECTOR<br>FIRE ALARM CARBON MONOXIDE DETECTOR(WALL)<br>FIRE ALARM SYSTEM SMOKE DETECTOR W/SOUNDER BASE<br>FIRE ALARM DETECTOR / CO SENSOR - STAND ALONE<br>FIRE ALARM SYSTEM SMOKE / CARBON MONOXIDE DETECTOR W/SOUNDER BASE<br>FIRE ALARM CARBON MONOXIDE DETECTOR<br><br><div>MISCELLANEOUS</div> JUNCTION BOX - CEILING/WALL MOUNTED<br>METER<br>FUSED SWITCH<br>DISCONNECT SWITCH<br>FUSED DISCONNECT SWITCH<br>COMBINATION STARTER DISCONNECT SWITCH W/H.O.A. | ACP ACCESS CONTROL PANEL<br>AOR AREA OF RESCUE<br>AFF ABOVE FINISHED FLOOR<br>BOH BACK OF HOUSE<br>C CEILING MOUNTED<br>CL CENTER LINE<br>CKT CIRCUIT<br>D DEDICATED<br>DP DISTRIBUTION PANEL<br>EC ELECTRICAL CONTRACTOR<br>EM EMERGENCY<br>EX EXISTING<br>ETR EXISTING TO REMAIN<br>ER EXISTING, RELOCATED<br>FAC FIRE ALARM CONTRACTOR<br>FPC FIRE PROTECTION CONTRACTOR<br>GC GENERAL CONTRACTOR<br>GFI GROUND FAULT CIRCUIT INTERRUPTER<br>HD HAND DRYER<br>LVC LOW VOLTAGE CONTRACTOR<br>MDP MAIN DISTRIBUTION PANEL<br>MC MECHANICAL CONTRACTOR<br>MT MOUNT<br>NL NIGHT LIGHT<br>PC PLUMBING CONTRACTOR<br>PL PILOT LIGHT<br>SM SURFACE MOUNT<br>TC TIMECLOCK<br>TGB TELECOMMUNICATIONS GROUND BUS<br>TTC TELEPHONE TERMINAL CABINET<br>W WALL MOUNT AT 48" A.F.F.<br>WP WEATHERPROOF |

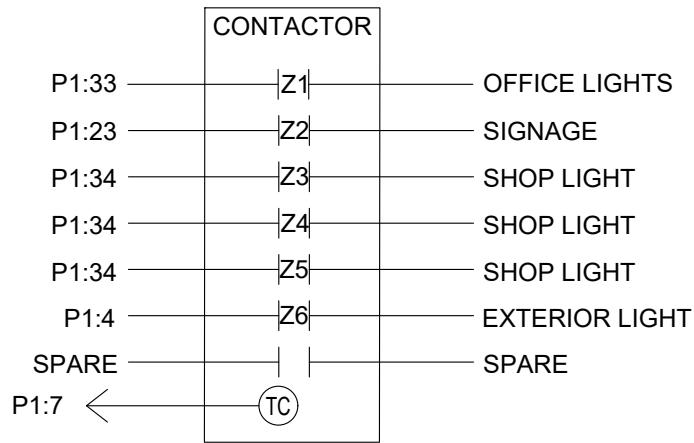
| LOW VOLTAGE   |  |
|---|--|
| VOICE/DATA OUTLET<br>ABOVE COUNTER VOICE/DATA OUTLET<br>FLOOR / CEILING VOICE/DATA OUTLET<br>DATA OUTLET<br>FLOOR / CEILING VOICE/DATA OUTLET<br>VOICE OUTLET<br>FLOOR / CEILING VOICE OUTLET<br>RECESSED CLOCK STYLE OUTLET FOR TV, REFER TO SPECIFICATIONS FOR MORE DETAILS<br>CARD READER<br>DOOR CONTACT<br>REQUEST TO EXIT |  |

| LIGHTING   |  |
|--|--|
| SWITCH<br>DIMMER SWITCH<br>3 - WAY SWITCH<br>4 - WAY SWITCH<br>VACANCY SENSOR (WALL MOUNT)<br>OCCUPANCY SENSOR (WALL MOUNT)<br>LOW VOLTAGE MOMENTARY CONTACT SWITCH<br>TIME CLOCK OVER RIDE SWITCH<br>VACANCY SENSOR (CEILING)<br>OCCUPANCY SENSOR (CEILING)<br>DAYLIGHT SENSOR (CEILING)<br>BATTERY EMERGENCY LIGHT (WALL MOUNT)<br>BATTERY EMERGENCY LIGHT (CEILING MOUNT)<br>EXIT SIGN<br>UPPERCASE LETTER DENOTES FIXTURE TAG<br>LOWERCASE LETTER DENOTES SWITCH DESIGNATION |  |
| ANNOTATION   |  |
| KEY NOTE TAG<br>REVISION NOTE TAG  |  |

| LINE WEIGHT LEGEND |          |
|--------------------|----------|
|                    | NEW      |
|                    | EXISTING |

| ELECTRICAL SHEET INDEX |                         |              |
|------------------------|-------------------------|--------------|
| SHEET NO.              | SHEET NAME              | SCALE        |
| E0.0                   | ELECTRICAL COVER SHEET  | N.T.S.       |
| E1.0                   | LIGHTING PLAN           | 1/4" = 1'-0" |
| E2.0                   | POWER & FIRE ALARM PLAN | 1/4" = 1'-0" |
| E3.0                   | ELECTRICAL SCHEDULE     | N.T.S.       |

| APPLICABLE CODES |  |
|------------------|--|
| 1.               | 2021 INTERNATIONAL BUILDING CODE (IBC)             |
| 2.               | 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) |
| 3.               | 2021 INTERNATIONAL MECHANICAL CODE (IMC)           |
| 4.               | 2021 INTERNATIONAL PLUMBING CODE (IPC)             |
| 5.               | 2020 NATIONAL ELECTRICAL CODE (NEC)                |
| 6.               | 2021 INTERNATIONAL FUEL GAS CODE (IFGC)            |



## 2 TIME CLOCK DIAGRAM 'TC'

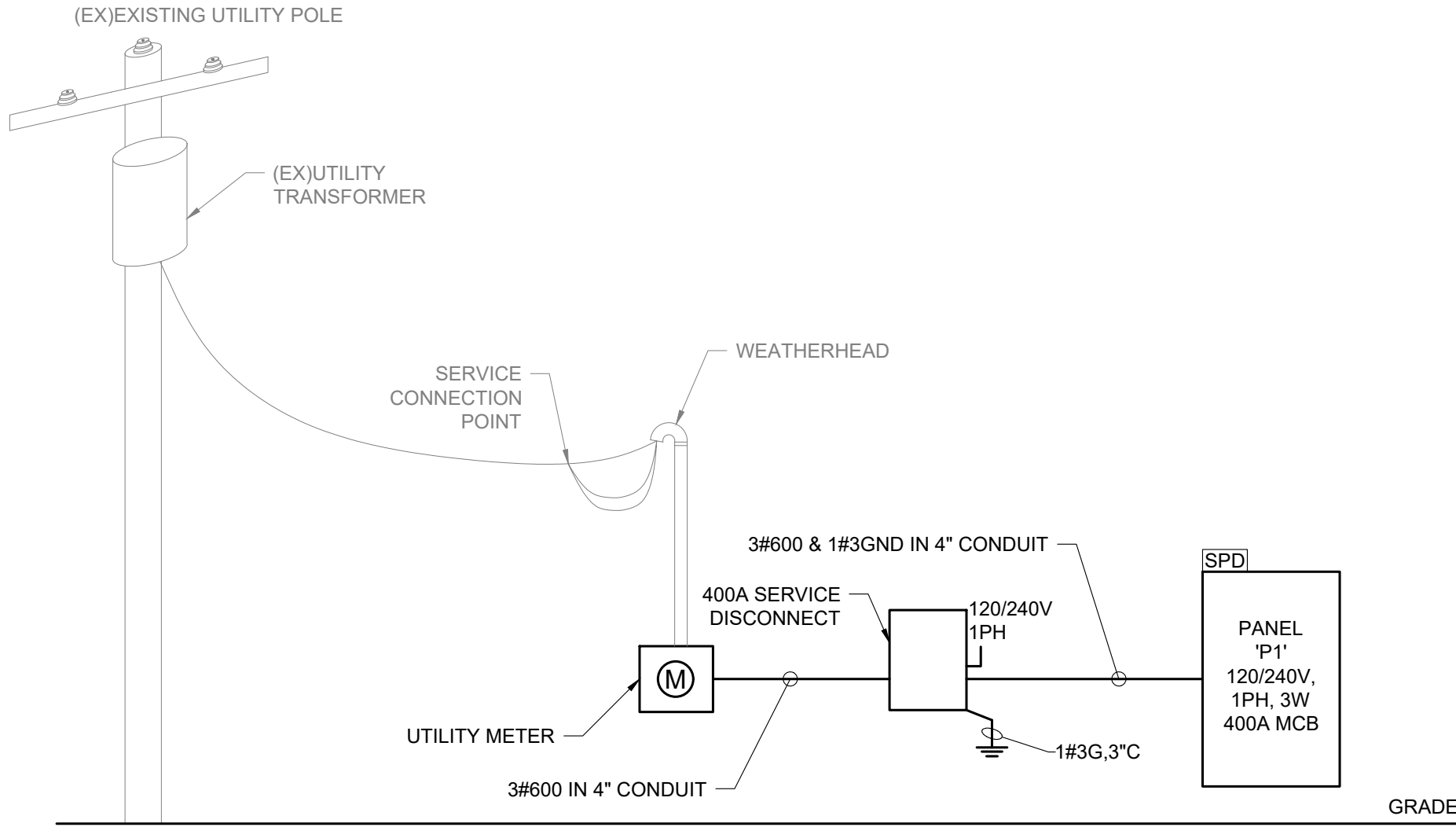
SCALE: N.T.S.

### GENERAL NOTES:

- E.C. TO PROVIDE TIME CLOCK FOR LIGHTING AND SIGNAGE CONTROL. TIME CLOCK SHALL BE AN INTERMATIC ET90715CE OR EQUAL, 120V, 7 CIRCUIT, 100 HR. BATTERY BACKUP WITH LOCAL OVERRIDE SWITCH (MAX. 2HRS.).

### GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND ALL LOCAL CODE AMENDMENTS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL PERMITS, LABOR, MATERIALS, ACCESSORIES AND EQUIPMENT REQUIRED FOR A COMPLETE & FUNCTIONAL ELECTRICAL SYSTEM(S) AND FINAL CERTIFICATE OF OCCUPANCY.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ELECTRICAL CONTRACTOR SHOULD VERIFY ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING, AND OTHER EQUIPMENT AS REQUIRED.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, UNLESS OTHERWISE NOTED.
- BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN OR THWN AS REQUIRED.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
- PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, BLACK LETTERS ON WHITE BACKGROUND.
- COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN OF RECEPTACLES FOR ALL MILLWORK AND CABINETRY.
- IT IS THE RESPONSIBILITY OF THE EC TO REVIEW ALL ARCHITECTURAL DRAWINGS, ELECTRICAL DRAWINGS AND NOTES TO ENSURE THAT ALL ELECTRICAL REQUIREMENTS ARE MET.
- THE EC SHALL VERIFY THE VOLTAGE AND COMPATIBILITY OF ALL EQUIPMENT, FIXTURES AND MILLWORK PRIOR TO CONNECTION.
- THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND ALL APPLICABLE TRADES ARE RESPONSIBLE FOR STRICT ADHERENCE TO ALL ELECTRICAL SAFETY REQUIREMENTS.



## 1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

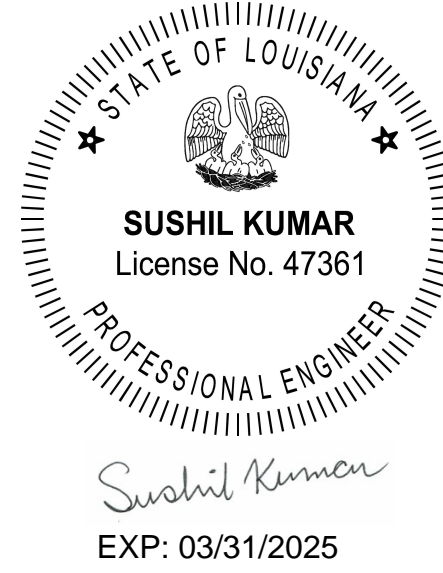
### ONE LINE DIAGRAM NOTES:

- EC SHALL BE RESPONSIBLE FOR COMPENSATING FOR VOLTAGE DROP PER NEC 210.19.
- ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSE ONLY. EC SHALL VERIFY EXACT DISTRIBUTION IN FIELD AND INFORM ENGINEER FOR ANY DISCREPANCY.
- REFERENCE THE NOTES FOR ADDITIONAL REQUIREMENTS REGARDING EQUIPMENT AND INSTALLATION. NOT ALL INFORMATION SHOWN ON THIS DIAGRAM.
- ALL PANEL SHALL HAVE DOOR-IN-DOOR ACCESSIBILITY.
- CONTRACTOR SHALL LABEL ALL DISTRIBUTION EQUIPMENT PRIOR TO FINAL OBSERVATION WALK THROUGH.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC-FLASH HAZARD WARNING FIELD LABELING TO ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE MAXIMUM AVAILABLE FAULT CURRENT FIELD LABELING TO SERVICE EQUIPMENT FOLLOWING NEC 110.24.

### PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOLA, LA 70454

### SEAL & SIGN:



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### SHEET NAME:

ELECTRICAL  
COVER SHEET

DRAWN BY: N.K.

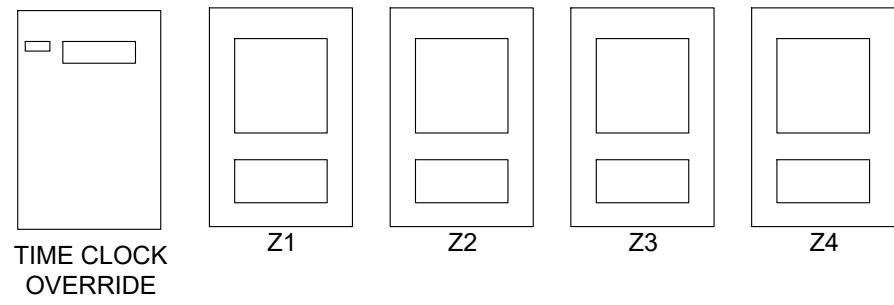
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2

## SWITCH BANK A

SCALE: N.T.S.

**SWITCH BANK GENERAL NOTES:**

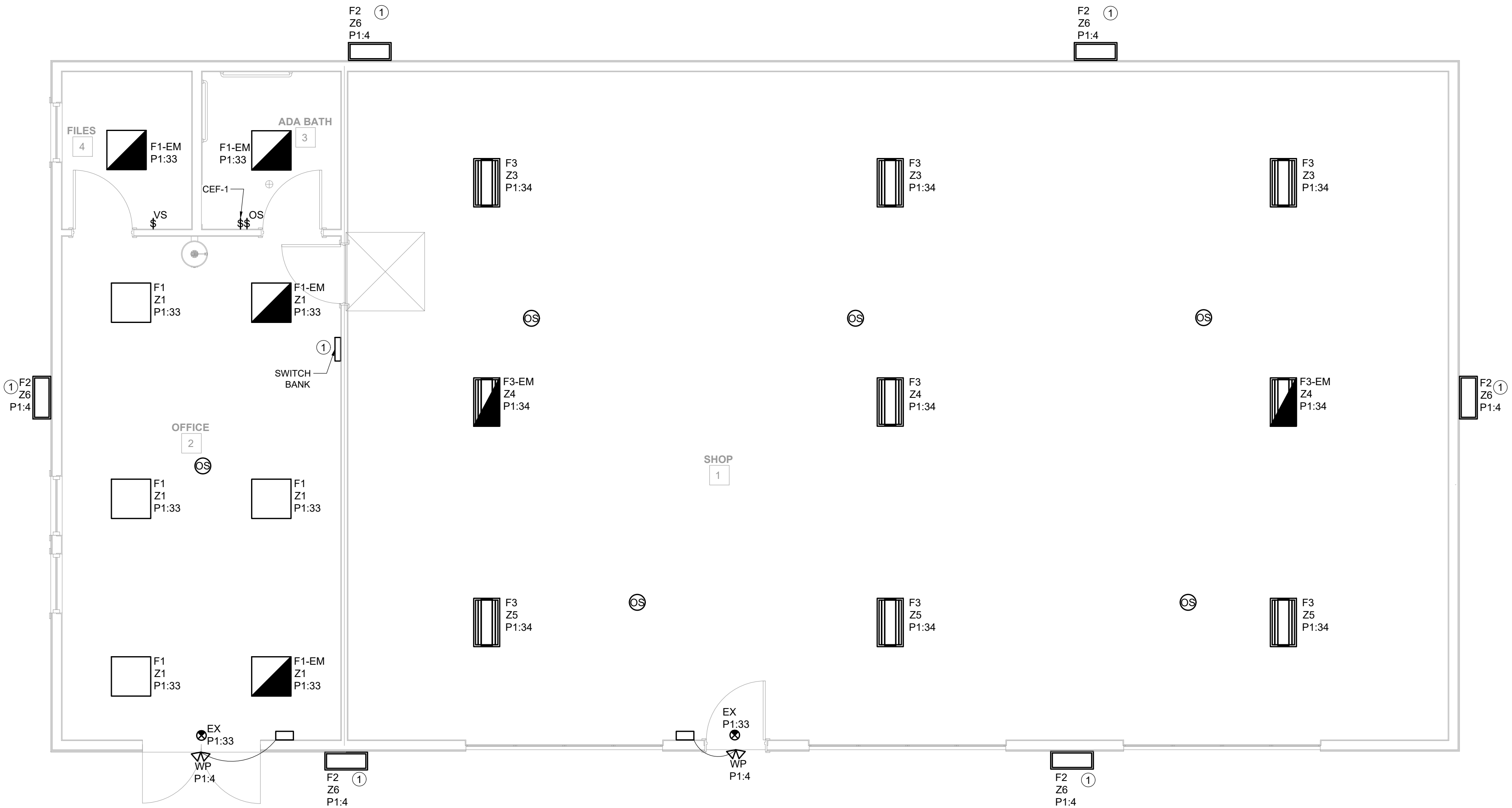
- EC SHALL VERIFY CONFIGURATION REQUIRED WITH SPACE AVAILABLE.
- PROVIDE LABELS AS DIRECTED BY OWNER.
- SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48" AFF.
- ALL SWITCHES SHALL BE DIMMER SWITCHES COMPATIBLE WITH THE FIXTURES CONTROLLED. IT IS THE EC'S RESPONSIBILITY TO DETERMINE THAT ALL DIMMER SWITCHES ARE COMPATIBLE WITH THE FIXTURES CONTROLLED PRIOR TO ORDERING.

**LIGHTING GENERAL NOTES**

- ALL 20A BRANCH CIRCUITS SHALL USE #12AWG CONDUCTORS IN 3/4" MINIMUM. CONTRACTOR SHALL PROVIDE HOME RUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF (1) NETWORK PER HOME RUN. ALL FEEDERS OR BRANCH CIRCUITS GREATER THAN 75' IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS FOR GENERAL LIGHTING. EXIT SIGN AND BATTERY EMERGENCY LIGHTING SHALL BE BASED ON THE ENGINEERING PLANS.
- COORDINATE THE EXACT MOUNTING OF ALL EXIT SIGNS WITH ARCHITECT PRIOR TO ORDERING. COORDINATE LOCATIONS WITH DOOR SWINGS, SOFFITS, OBSTRUCTIONS, ETC TO AVOID CONFLICTS. PROVIDE PENDANTS AS REQUIRED. PROVIDE DUAL FACES AND DIRECTIONAL ARROWS AS REQUIRED.
- PROVIDE A DEDICATED NEUTRAL TO EACH CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL TEST BATTERIES IN EXISTING EXTERIOR EGRESS LIGHTING. LIGHTS SHALL OPERATE ON BATTERY POWER FOR A MINIMUM OF 90 MINUTES AND PROVIDE A MINIMUM ILLUMINATION OF 1 FOOT CANDLE OUTSIDE EGRESS DOORS.
- ALL EGRESS LIGHTS SHALL BE PROVIDED WITH DUAL LAMPS.
- EMERGENCY LIGHTING SHALL BE INSTALLED ON THE SAME BRANCH CIRCUIT THAT SUPPLIES NORMAL LIGHTING IN THE AREA OF THE EMERGENCY LIGHTING, AHEAD OF ANY LOCAL SWITCHING IN ACCORDANCE WITH NEC 700.12(F) AND NEC 408.4.
- ROUTING OF ALL FIXTURE WIRING SHALL BE CONCEALED AND RUN IN A NEAT AND WORKMANLIKE MANNER.

**(X) LIGHTING KEY NOTE**

- EC SHALL COORDINATE EXACT LOCATION AND/ OR MOUNTING HEIGHT OF LIGHT WITH ARCHITECT/ OWNER.



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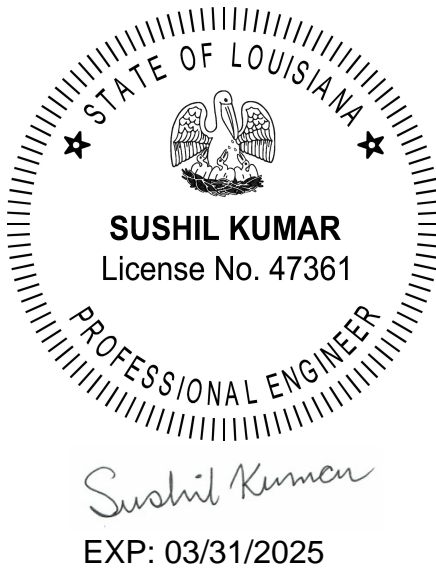
### LIGHTING PLAN

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

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOLA, LA 70454

SEAL & SIGN:



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LIGHTING PLAN

DRAWN BY: N.K.

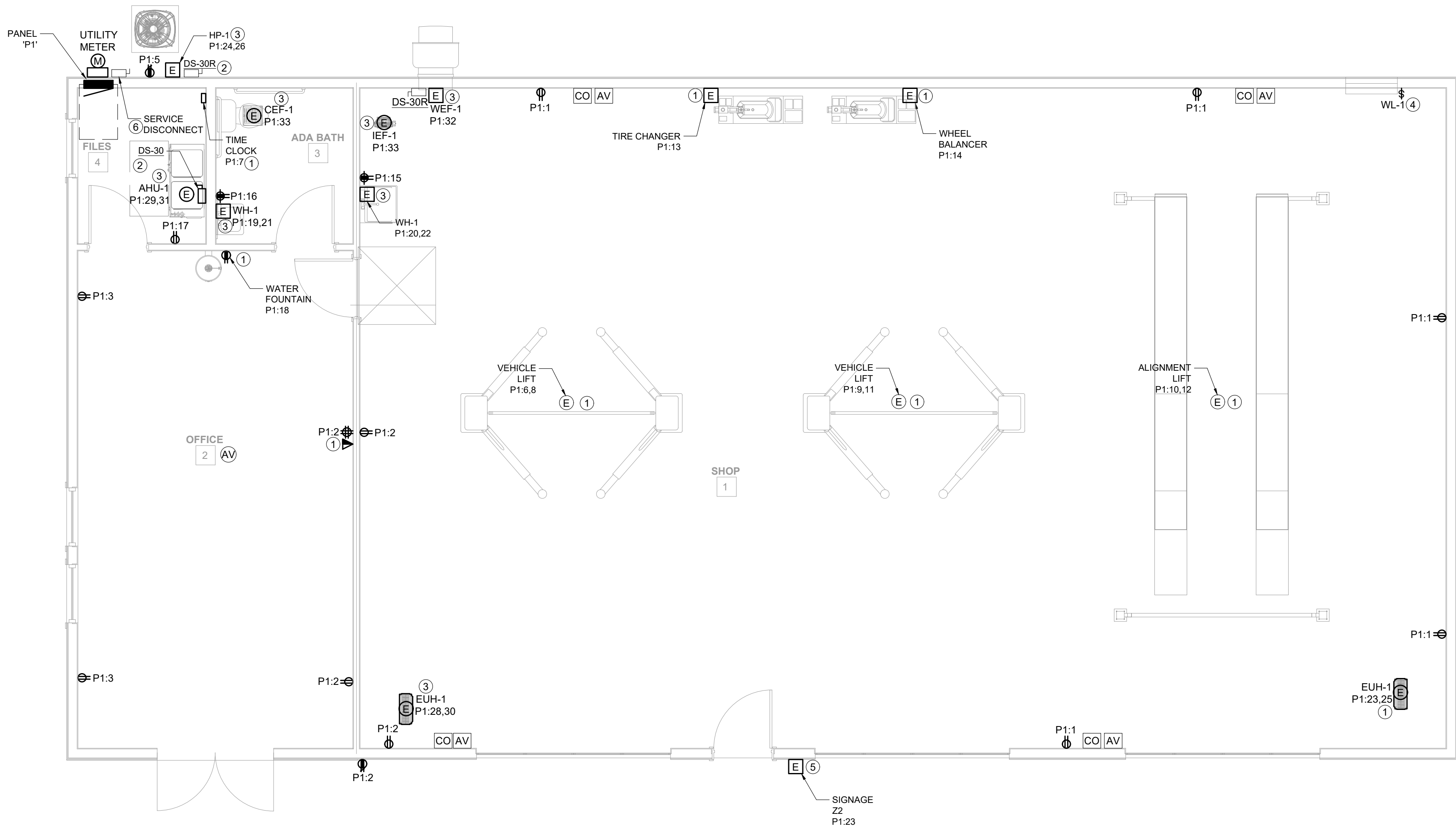
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DATE: 09/05/2024

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

E1.0





NORTH  
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POWER & FIRE ALARM PLAN  
SCALE: 1/4" = 1'-0"

POWER GENERAL NOTES:

- EC SHALL COORDINATE DISCONNECT REQUIREMENTS WITH MANUFACTURER FOR ALL NEW EQUIPMENT.
- 120V, 20A RECEPTACLES LOCATED OUTDOORS, OR WITHIN 6'-0" OF A SINK OR BASIN OR LOCATED WITHIN BATHROOMS OR KITCHEN SHALL BE GFCI PROTECTED.
- ALL 20A BRANCH CIRCUITS SHALL USE #12AWG CONDUCTORS IN 3/4" MINIMUM. CONTRACTOR SHALL PROVIDE HOMERUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF (1) NETWORK PER HOMERUN. ALL FEEDERS OR BRANCH CIRCUITS GREATER THAN 75' IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP. ALL OTHER CIRCUITS CONDUCTORS SHALL BE SIZED TO MATCH THEIR RESPECTIVE OVER CURRENT PROTECTIVE DEVICES U.N.O.
- COORDINATE DEVICE ELEVATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- THIS PROJECT IS SUBJECT TO THE 2023 NEC AND ALL LOCAL AMENDMENTS.
- METALLIC CONDUIT MAY NOT BE USED AS AN EFFECTIVE GROUND PATH. PROVIDE A DEDICATED GROUND CONDUCTOR FOR ALL BRANCH CIRCUITS & FEEDERS.
- THE CONTRACTOR SHALL REVIEW ALL EQUIPMENT CUTS PRIOR TO THE ROUGH-IN OF ANY ELECTRICAL DEVICES. COORDINATE EQUIPMENT REQUIREMENTS AND ELEVATIONS PRIOR TO ROUGH-IN. TYP.
- COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN OF RECEPTACLES FOR ALL MILLWORK AND CABINETRY.
- ROUTING OF ALL FIXTURE WIRING SHALL BE CONCEALED AND RUN IN A NEAT AND WORKMANLIKE MANNER.

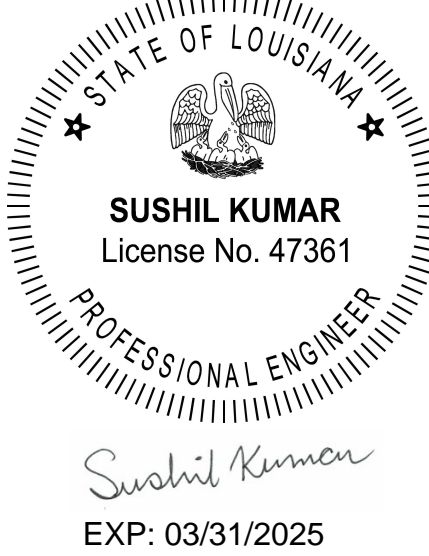
POWER KEY NOTES:

- EC SHALL COORDINATE EXACT LOCATION AND/ OR MOUNTING HEIGHT OF ELECTRICAL FIXTURE WITH ARCHITECT/ OWNER.
- EC TO COORDINATE THE DISCONNECT REQUIREMENT FOR THE MECHANICAL UNITS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.
- EC SHALL COORDINATE THE EXACT LOCATION FOR MECH EQUIPMENT WITH MC AT THE SITE AND PROVIDE THE ELECTRICAL CONNECTION AS REQUIRED.
- EC TO PROVIDE A MANUAL STARTER SWITCH TO CONTROL THE LOUVER & DAMPER OPENING.
- COORDINATE EXACT LOCATION WITH FACADE/SIGNAGE INSTALLER.
- LOCATION OF SERVICE DISCONNECT IN NEMA 3R ENCLOSURE. COORDINATE EXACT LOACTION & MOUNTING HEIGHT ON FIELD.

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOLA, LA 70454

SEAL & SIGN:



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SHEET NAME:

POWER & FIRE ALARM  
PLAN

DRAWN BY: N.K.

CHECKED BY: A.Y.

DATE: 09/05/2024

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

E2.0



| LOAD CALCULATIONS                      |  |   |   |                       |       |                       |            |                    |       |
|--|--|---|---|-----------------------|-------|-----------------------|------------|--------------------|-------|
| PROJECT NAME:                          |  | DEVIER ENTERPRISES,LLC                                |   |                       |       |                       |            | DATE: 9-5-2024     |       |
| ADDRESS:                               |  | TIRE SHOP HWY 22-656 EAST PINE, PONCHATOULA, LA 70454 |   |                       |       |                       |            |                    |       |
| BLDG EXTERIOR DIMENSIONS:              |  |   |   |                       |       |                       |            |                    |       |
| TOTAL NO. OF FLOORS:                   |  |   |   |                       |       |                       |            |                    |       |
| TYPE OF SERVICE:                       |  | 1   |   | 480Y/277V, 3 PHASE,4W |       | 208/120V, 3 PHASE, 4W |            | 120/208V, 1 PH, 3W |       |
|  |  |   |   | 480V,3 PHASE, 3W*     |       | 208V,3 PHASE, 3W      |            | X                  |       |
|  |  | *(REQUIRES GROUND DETECTION)                          |   |                       |       |                       |            |                    |       |
| MAIN SERVICE SIZE                      |  | 400 AMPS  |   |                       |       |                       |            |                    |       |
|  |  | AREA  |   |                       |       |                       |            |                    |       |
| COMMON SPACE LIGHTING LOAD 220.12      |  |   |   |                       |       |                       |            |                    |       |
| COMMON AREA                            |  | 2,504   | X | 100%                  | X     | 1.7                   | WATTS / SF | 4,257              | WATTS |
|  |  |   |   |                       |       | TOTAL LOAD            |            | 4,257              | WATTS |
| LIGHTING DEMAND LOAD NEC 220.42        |  |   |   |                       |       |                       |            |                    |       |
| CALCULATED LOAD                        |  | 4,257   | X | 100%                  |       |                       |            | 4,257              | WATTS |
|  |  |   |   |                       |       | TOTAL LOAD            |            | 4,257              | WATTS |
| GENERAL RECEPCTACLE LOAD               |  |   |   |                       |       |                       |            |                    |       |
| TOTAL AREA                             |  | 4,758   | X | 100%                  | X     | 1                     | WATTS / SF | 4,758              | WATTS |
|  |  |   |   |                       |       | TOTAL LOAD            |            | 4,758              | WATTS |
| GENERAL RECEPCTACLE DEMAND DEMAND LOAD |  |   |   |                       |       |                       |            |                    |       |
| FIRST 10KVA AT 100%                    |  | 4,758   | X | 100%                  |       |                       |            | 4,758              | WATTS |
|  |  |   |   |                       |       | TOTAL LOAD            |            | 4,758              | WATTS |
| MECHANICAL LOAD                        |  |   |   |                       |       |                       |            |                    |       |
| AHU-1                                  |  | 1   | X | 5914                  | WATTS |                       |            | 5,914              | WATTS |
| HP-1                                   |  | 1   | X | 3149                  | WATTS |                       |            | 3,149              | WATTS |
| TOTAL LOAD                             |  | 9,063   | X | 65%                   |       |                       |            | 5,891              | WATTS |
| MECHANICAL EQUIPMENT LOAD              |  |   |   |                       |       |                       |            |                    |       |
| EUH-1                                  |  | 2   | X | 10000                 | WATTS |                       |            | 20,000             | WATTS |
| WEF-1                                  |  | 1   | X | 830                   | WATTS |                       |            | 830                | WATTS |
| WH-1                                   |  | 2   | X | 4800                  | WATTS |                       |            | 9,600              | WATTS |
| TOTAL LOAD                             |  | 30,430  | X | 100%                  |       |                       |            | 30,430             | WATTS |
| EQUIPMENT LOAD                         |  |   |   |                       |       |                       |            |                    |       |
| VEHICLE LIFT                           |  | 2   | X | 1800                  | WATTS | 75%                   |            | 2,700              | WATTS |
| ALIGNMENT LIFT                         |  | 1   | X | 1800                  | WATTS | 75%                   |            | 1,350              | WATTS |
| TIRE CHANGER                           |  | 1   | X | 1500                  | WATTS |                       |            | 1,500              | WATTS |
| WHEEL BALANCER                         |  | 1   | X | 1500                  | WATTS |                       |            | 1,500              | WATTS |
| WATER FOUNTAIN                         |  | 1   | X | 370                   | WATTS |                       |            | 370                | WATTS |
| SIGNAGE                                |  | 1   | X | 1200                  | WATTS |                       |            | 1,200              | WATTS |
| TOTAL LOAD                             |  | 8,620   | X | 100%                  |       |                       |            | 8,620              | WATTS |
| TOTAL WATTS                            |  | 53,956  |   | /                     | 240   | /                     | 1          | 53,956             | WATTS |
|  |  |   |   |                       |       |                       |            | 225                | AMPS  |
| TOTAL DEMAND AMPS                      |  | 225   |   |                       |       |                       |            |                    |       |
| TOTAL DEMAND AMPSx 1.25 S.F.           |  | 281   |   |                       |       |                       |            |                    |       |
| *S.F. = SAFETY FACTOR                  |  |   |   |                       |       |                       |            |                    |       |

| LIGHTING FIXTURE SCHEDULE |  |              |      |              |           |       |              |   |
|---------------------------|--|--------------|------|--------------|-----------|-------|--------------|---|
| TAG                       | LUMINAIRE DESCRIPTION  | NO. OF LAMPS |      | CONTROL TYPE | LUMINAIRE |       | MOUNTING     | MANUFACTURER & CATALOG NUMBER                                     |
|                           |  | QTY          | TYPE |              | MAX VA    | VOLTS |              |   |
| F1                        | 2'X2' PANEL LIGHT  | 1            | LED  | 0-10V        | 19.3      | 120   | SURFACE      | LITHONIA LIGHTING<br>CPX 2X2 4000LM 80CRI MVOLT/2x2 SMKSH         |
| F1-EM                     | 2'X2' PANEL LIGHT 90 MIN BATTERY BACKUP  | 1            | LED  | 0-10V        | 19.3      | 120   | SURFACE      | LITHONIA LIGHTING<br>CPX 2X2 4000LM 80CRI MVOLT E7W/2X2 SMKSH     |
| F2                        | FACADE EXTERIOR LIGHT  | 1            | LED  | -            | 7.8       | 120   | WALL/SURFACE | LITHONIA LIGHTING<br>LHQM   |
| F3                        | LED LINEAR HIGH BAY  | 1            | LED  | 0-10V        | 131       | 120   | —            | AL12 LEDSE 18L LL W UNV 50 DHSUE                                  |
| F3-EM                     | LED LINEAR HIGH BAY 90 MIN BATTERY BACKUP  | 1            | LED  | 0-10V        | 131       | 120   | —            | AL12 LEDSE 18L LL W UNV 50 DHSUE EM                               |
| EX                        | EXIT SIGN  | 1            | LED  | -            | 3         | 120   | WALL/SURFACE | LITHONIA LIGHTING<br>WPX0 LED ALO SWW2 MVOLT PE DDBXD             |
| REMOTE HEAD 'WP'          | WHITE THERMOPLASTIC WALL OR CEILING/PENDANT MOUNTED WP REMOTE HEAD WITH TWO 6V LED HEADS, WITH REMOTE INTERIOR 90 MINUTE BATTERY   | 2            | LED  | -            | 24        | 120   | SURFACE/WALL | PHILIPS CHLORIDE: CLR-2-"COLOR"- "WET" WITH CLU2-N- "COLOR"-2R-LH |
| 1                         | REFER TO ARCHITECTURAL SHEETS FOR WALL, COLUMN, AND PENDANT MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.   |              |      |              |           |       |              |   |
| 2                         | PROVIDE DIMMING BALLASTS/DRIVERS WHERE REQUIRED. COORDINATE CONTROL TYPE PRIOR TO BID. REFER TO FLOOR PLANS AND LIGHTING CONTROL SCHEDULES FOR MORE INFORMATION. COORDINATE EXACT CONTROL REQUIREMENTS WITH LIGHTING MANUFACTURERS AND COORDINATE WITH CONTROL MANUFACTURERS PRIOR TO BID. |              |      |              |           |       |              |   |
| 3                         | E.C. SHALL COORDINATE VOLTAGES REQUIRED FOR FIXTURES PRIOR TO ORDERING.  |              |      |              |           |       |              |   |
| 4                         | ALL FIXTURES SHALL BE UL OR ETL LISTED.  |              |      |              |           |       |              |   |
| 5                         | PROVIDE CURRENT LIMITERS FOR ALL TRACK LIGHTING. LIMITERS SHALL BE SIZED TO CARRY THE LOAD FOR THE QUANTITY OF HEADS SHOWN TO BE INSTALLED PLUS TWO EXTRA HEADS. SIZE LIMITER TO THE NEAREST NOMINAL SIZE PROVIDED BY THE MANUFACTURER.  |              |      |              |           |       |              |   |

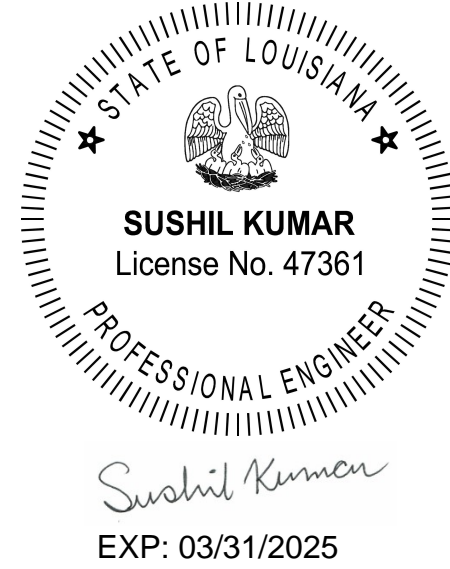
| DISCONNECT AND STARTER SCHEDULE  |                          |  |                 |         |       |  |      |                |         |   |
|--|--------------------------|--|-----------------|---------|-------|--|------|----------------|---------|---|
|  |                          | REMARKS:                                     |                 |         |       |  |      |                |         |   |
| STARTER TYPE:  |                          | SA - STANDARD ACCESSORIES (INCLUDES * ITEMS) |                 |         |       |  |      |                |         |   |
| FV - FULL VOLTAGE  |                          | *CT - CONTROL TRANSFORMER, FUSED 120V        |                 |         |       | PF - PHASE FAILURE RELAY (5 HP OR GREATER)   |      |                |         |   |
| YD - WYE - DELTA   |                          |  |                 |         |       |  |      |                |         |   |
| RE - REVERSING   |                          | *EO - ELECTRONIC OVERLOAD                    |                 |         |       | TO - MELTING THERMAL OVERLOADS               |      |                |         |   |
| TW - 2 SPEED, 2 WINDING  |                          | *HA - HAND-OFF-AUTO IN DOOR                  |                 |         |       | TS - 2 SPEED SELECTOR SWITCH IN DOOR         |      |                |         |   |
| SW - 2 SPEED, 2 WINDING  |                          | *RP - RED (RUN) PILOT LIGHT IN DOOR          |                 |         |       | GP - GREEN (OFF) PILOT LIGHT IN DOOR         |      |                |         |   |
| RV - REDUCED VOLTAGE AUTOXFMR  |                          |  |                 |         |       | FA - 4-CONVERTIBLE AUXILIARY CONTACTS        |      |                |         |   |
| SS - SOLID STATE   |                          | *TA - TWO CONVERTIBLE AUXILIARY CONTACTS     |                 |         |       | EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C |      |                |         |   |
| MS - MANUAL STARTER  |                          |  |                 |         |       | SS - START-STOP PUSHBUTTON IN DOOR           |      |                |         |   |
| MX - MANUAL SWITCH   |                          | S/N - INSULATED NEUTRAL ASSEMBLY             |                 |         |       | HL - HANDLE PADLOCK HASP                     |      |                |         |   |
| FS - FUSED SWITCH  |                          |  |                 |         |       |  |      |                |         |   |
| NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE. |                          |  |                 |         |       |  |      |                |         |   |
| ITEM   | DISCONNECT TYPE & RATING |  |                 | VOLTAGE | POLES | STARTER                                      |      | NEMA ENCLOSURE | REMARKS | APPROVED MANUFACTURERS  |
|  | HEAVY DUTY SWITCH        | NON-FUSED                                    | CIRCUIT BREAKER |         |       | NEMA SIZE                                    | TYPE |                |         |   |
|  |                          |  |                 |         |       |  |      |                |         |   |
| DS-30  |                          | 30   |                 | 240     | 2     |  |      | 1              |         | SQUARE D<br>EATON TYPE DH<br>GENERAL ELECTRIC TYPE TH<br>SIEMENS TYPE HNF |
| DS-30R   |                          | 30   |                 | 240     | 2     |  |      | 3R             |         | SQUARE D<br>EATON TYPE DH<br>GENERAL ELECTRIC TYPE TH<br>SIEMENS TYPE HNF |

| TAG   | LOAD   | LOAD TYPE | A    | B     | AMPS   | CKT. NO. | CKT. NO.  | AMPS | A    | B     | LOAD TYPE | LOAD                         |  |
|---|--|-----------|------|-------|--------|----------|---|------|------|-------|-----------|------------------------------|--|
|   | SHOP RECEPTACLE(S)                                 | R         | 900  |       | 20     | 1        | 2   | 20   | 1080 |       | R         | OFFICE RECEPTACLE(S)         |  |
|   | OFFICE RECEPTACLE(S)                               | R         |      | 360   | 20     | 3        | 4   | 20   |      | 95    | EQ        | EXTERIOR LIGHT               |  |
|   | EXTERIOR RECEPTACLE(S)                             | R         | 180  |       | 20     | 5        | 6   | 20   | 900  |       | EQ        | VEHICLE LIFT                 |  |
|   | TIME CLOCK   | EQ        |      | 50    | 20     | 7        | 8   |      |      | 900   | EQ        |                              |  |
|   | VEHICLE LIFT                                       | EQ        | 900  |       | 20     | 9        | 10  | 20   | 900  |       | EQ        | ALIGNMENT LIFT               |  |
|   |  | EQ        |      | 900   |        | 11       | 12  |      |      | 900   | EQ        |                              |  |
|   | TIRE CHANGER                                       | EQ        | 1500 |       | 20     | 13       | 14  | 20   | 1500 |       | EQ        | WHEEL BALANCER               |  |
|   | SHOP SINK RECEPTACLE(S)                            | R         |      | 180   | 20     | 15       | 16  | 20   |      | 180   | R         | ADA BATH RECEPTACLE(S)       |  |
|   | FILES RECEPTACLE(S)                                | R         | 180  |       | 20     | 17       | 18  | 20   | 180  |       | R         | WATER FOUNTAIN RECEPTACLE(S) |  |
|   | WH-1, "NOTE 5                                      | HW        |      | 2400  |        | 19       | 20  | 25   |      | 2400  | HW        | WH-1, "NOTE 5                |  |
|   |  | HW        | 2400 |       | 25     | 21       | 22  |      | 2400 |       | HW        |                              |  |
|   | SIGNAGE  | EQ        |      | 1200  | 20     | 23       | 24  | 20   |      | 1575  | H         | HP-1                         |  |
|   | ELH-1, "NOTE 5                                     | H         | 5000 |       | 60     | 25       | 26  |      | 1575 |       | H         |                              |  |
|   |  | H         |      | 5000  |        | 27       | 28  | 60   |      | 5000  | H         | ELH-1, "NOTE 5               |  |
|   |  | H         | 2957 |       | 30     | 29       | 30  |      | 5000 |       | H         |                              |  |
|   | AHU-1  | H         |      | 2957  | 30     | 31       | 32  | 20   |      | 830   | EQ        | MEF-1                        |  |
|   | OFFICE LT, ADA BATH & FILES RM. LIGHTS,IEF-1,CEF-1 | L         | 248  |       | 20     | 33       | 34  | 20   | 1179 |       | L         | SHOP LIGHTS                  |  |
|   | SPARE  |           |      |       | 20     | 35       | 36  | 20   |      |       |           | SPARE                        |  |
|   | SPARE  |           |      |       | 20     | 37       | 38  | 20   |      |       |           | SPARE                        |  |
|   | SPACE  |           |      |       |        | 39       | 40  |      |      |       |           | SPD                          |  |
|   | SPACE  |           |      |       |        | 41       | 42  | 20   |      |       |           |                              |  |
| SUBTOTAL #1   |  |           |      | 14265 | 13047  |          |   |      |      | 14714 | 11880     | SUBTOTAL #2                  |  |
| SUBTOTAL #2   |  |           |      | 14714 | 11880  |          |   |      |      |       |           |                              |  |
| SUBTOTAL #1 + #2  |  |           |      | 28979 | 24927  |          |   |      |      |       |           |                              |  |
| NEW ADDED PANEL LOAD:   |  |           | 53.9 | KVA   | AMPS   | 226.1    | DEMAND AMPS   |      |      |       |           |                              |  |
| VOLTS: 120/240V   |  |           | 1PH  | 3W    | WITHST | 22k      | AIC   |      |      |       |           |                              |  |
| MAINS:  |  |           | 400  | A     | MCB    | AND:     | PT=FEED THRU, ST=SHUNT TRIP, RF=RC FAULT, GF=GROUND FAULT, GC=SPC LOCK-ON |      |      |       |           |                              |  |
| MOUNTING: RECESSED  |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| NOTES:  |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| 1.CONTRACTOR SHALL PROVIDE ADEQUATE WITHSTAND RATING OF EQUIPMENT PER AVAILABLE FAULT CURRENT FROM THE EXISTING UTILITY OR DISTRIBUTION. COORDINATE WITH UTILITY. |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| 2.THE CONTRACTOR SHALL ADJUST CIRCUITS AS REQUIRED BASED ON FINAL EQUIPMENT TO MAINTAIN 10% LOADING BETWEEN PHASES.   |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| 3.VERIFY ELECTRICAL REQUIREMENTS AND EQUIPMENT LOCATION PRIOR TO ROUGH-IN.  |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| 4.CONTRACTOR SHALL PROVIDE AFCI BREAKER IN ALL 20A/1P BRANCH CIRCUITS AS PER NEC 210.12(A)  |  |           |      |       |        |          |   |      |      |       |           |                              |  |
| 5.WIRE SIZE - 60A/2P=2#4 & 1#10GND IN 3/4", 30A/2P=2#10 & 1#10GND IN 1/2".  |  |           |      |       |        |          |   |      |      |       |           |                              |  |

PROJECT FOR:

DEVIER ENTERPRISES,LLC  
TIRE SHOP HWY 22- 656 EAST PINE,  
PONCHATOULA, LA 70454

SEAL & SIGN:



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SHEET NAME:

ELECTRICAL  
SCHEDULES

DRAWN BY: N.K.  
CHECKED BY: A.Y.  
DATE: 09/05/2024  
SCALE: N.T.S

E3.0





COMcheck Software Version COMcheckWeb

# Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC  
Project Title: DEVIER ENTERPRISES, LLC  
Project Type: New Construction

Construction Site: TIRE SHOP HWY 22-656 EAST PINE,  
PONCHATOULA, LA 70454  
PONCHATOULA, Louisiana 70454

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

| A<br>Area Category                              | B<br>Floor Area<br>(ft2) | C<br>Allowed<br>Watts / ft2 | D<br>Allowed<br>Watts |
|---|--------------------------|-----------------------------|-----------------------|
| 1-OFFICE (Common Space Types:Office - Enclosed) | 482                      | 0.74                        | 357                   |
| 2-SHOP (Common Space Types:Workshop)            | 1903                     | 1.26                        | 2398                  |
| Total Allowed Watts =                           |                          |                             | 2754                  |

Proposed Interior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast                     | B<br>Lamps/<br>Fixture | C<br># of<br>Fixture | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|----------------------|-----------------------|--------------|
| 1-OFFICE (Common Space Types:Office - Enclosed)<br>LED: F1: 2'X2' PANEL LIGHT: Other: | 1                      | 8                    | 19                    | 154          |
| 2-SHOP (Common Space Types:Workshop)<br>LED: F3: LED LINEAR HIGH BAY LIGHT: Other:    | 1                      | 15                   | 131                   | 1965         |
| Total Proposed Watts =  |                        |                      |                       | 2119         |

Interior Lighting PASSES: Design 23% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SUSHIL KUMAR  
Name - Title

*Sushil Kumar*  
Signature

09/05/24  
Date





# Exterior Lighting Compliance Certificate

## Project Information

Energy Code: 2021 IECC  
Project Title: DEVIER ENTERPRISES, LLC  
Project Type: New Construction  
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:  
TIRE SHOP HWY 22-656 EAST PINE,  
PONCHATOULA, LA 70454  
PONCHATOULA, Louisiana 70454

Owner/Agent:

Designer/Contractor:

## Allowed Exterior Lighting Power

| A<br>Area/Surface Category             | B<br>Quantity | C<br>Allowed<br>Watts / | D<br>Tradable<br>Wattage | E<br>Allowed Watts<br>(B X C) |
|--|---------------|-------------------------|--------------------------|-------------------------------|
| PARKING (Parking area)                 | 1200 ft2      | 0.06                    | Yes                      | 72                            |
| Total Tradable Watts (a) =             |               |                         |                          | 72                            |
| Total Allowed Watts =                  |               |                         |                          | 72                            |
| Total Allowed Supplemental Watts (b) = |               |                         |                          | 500                           |

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

## Proposed Exterior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixture | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|----------------------|-----------------------|--------------|
| PARKING (Parking area, 1200 ft2): Tradable Wattage                |                        |                      |                       |              |
| LED: F4: FACADE EXTERIOR LIGHT: Other:                            | 1                      | 6                    | 8                     | 47           |
| Total Tradable Proposed Watts =                                   |                        |                      |                       | 47           |

**Exterior Lighting PASSES: Design 92% better than code**

## Exterior Lighting Compliance Statement

*Compliance Statement:* The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SUSHIL KUMAR  
Name - Title

  
Signature

09/05/24  
Date





# COMcheck Software Version COMcheckWeb

## Mechanical Compliance Certificate

### Project Information

Energy Code: 2021 IECC  
Project Title: DEVIER ENTERPRISES, LLC  
Location: Ponchatoula, Louisiana  
Climate Zone: 2a  
Project Type: New Construction

Construction Site: TIRE SHOP HWY 22-656 EAST PINE,  
PONCHATOULA, LA 70454  
PONCHATOULA, Louisiana 70454  
Owner/Agent:  
Designer/Contractor:

### Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

### Mechanical Systems List

#### Quantity System Type & Description

- 1 AHU-1 (Single Zone):  
Split System Heat Pump  
Heating Mode: Capacity = 24 kBtu/h,  
Proposed Efficiency = 8.20 HSPF2, Required Efficiency = 7.50 HSPF2  
Cooling Mode: Capacity = 24 kBtu/h,  
Proposed Efficiency = 16.38 SEER2, Required Efficiency = 14.30 SEER2  
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00  
Fan System: FAN-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
  
Fans:  
FAN-1 Supply, Constant Volume, 675 CFM, 0.8 motor nameplate hp, 58.00 fan energy index
- 2 EUH-1 (Unknown w/ PerimeterSystem):  
Heating: 1 each - Unit Heater, Electric, Capacity = 34 kBtu/h  
No minimum efficiency requirement applies
- 2 Water Heater:  
Electric Instantaneous Water Heater, Capacity: 1 gallons  
No minimum efficiency requirement applies

### Mechanical Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SUSHIL KUMAR

Name - Title

Signature

09/05/24

Date





# Inspection Checklist

Energy Code: 2021 IECC

Requirements: 98.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID        | Plan Review   | Complies?  | Comments/Assumptions  |
|---------------------------|---|--|---|
| C103.2 [PR2] <sup>1</sup> | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.                        | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.  |
| C103.2 [PR4] <sup>1</sup> | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><b>Location on plans/spec:</b> E1.0, E3.0       |
| C103.2 [PR8] <sup>1</sup> | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><b>Location on plans/spec:</b> E1.0, E2.0, E3.0 |
| C406 [PR9] <sup>1</sup>   | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.  |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                                | Footing / Foundation Inspection   | Complies?  | Comments/Assumptions                          |
|---|---|--|---|
| C403.13.2<br>,<br>C403.13.3<br>[FO9] <sup>3</sup> | Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                            | Plumbing Rough-In Inspection  | Complies?  | Comments/Assumptions     |
|---|---|--|--------------------------|
| C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup> | Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID            | Mechanical Rough-In Inspection  | Complies?  | Comments/Assumptions   |
|-------------------------------|---|--|--|
| C402.2.6 [ME41] <sup>3</sup>  | Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$ .  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.8.1 [ME65] <sup>3</sup>  | HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><i>See the Mechanical Systems list for values.</i> |
| C403.8.3 [ME117] <sup>2</sup> | Fans have a fan energy index (FEI) $\geq 1.00$ . Variable volume fans will have an FEI $\geq 0.95$ .  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.8.4 [ME142] <sup>2</sup> | Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.8.6 [ME143] <sup>2</sup> | Each DX cooling system $> 65$ kBtu and chiller water/evaporative cooling system with fans $> 1/4$ hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.                               | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.9 [ME144] <sup>2</sup>   | Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.3 [ME55] <sup>2</sup>    | HVAC equipment efficiency verified.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Mechanical Systems list for values.</i>                             |
| C403.2.2 [ME59] <sup>1</sup>  | Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.7.1 [ME59] <sup>1</sup>  | Demand control ventilation provided for spaces $> 500$ ft <sup>2</sup> and $> 15$ people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow $> 3,000$ cfm. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.7.2 [ME115] <sup>3</sup> | Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.7.6 [ME141] <sup>3</sup> | HVAC systems serving guestrooms in Group R-1 buildings with $> 50$ guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).                            | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                                       | Mechanical Rough-In Inspection   | Complies?  | Comments/Assumptions                          |
|--|--|--|---|
| C403.7.4 [ME57] <sup>1</sup>                             | Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C403.7.5 [ME116] <sup>3</sup>                            | Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C403.4.1.4 [ME63] <sup>2</sup>                           | Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint ≤ 60F and cooling setpoint ≥ 80F. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C408.2.2.1 [ME53] <sup>3</sup>                           | Air outlets and zone terminal devices have means for air balancing.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C403.11.3, C403.11.3.1, C403.11.3.2 [ME123] <sup>3</sup> | Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..               | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                | Rough-In Electrical Inspection  | Complies?  | Comments/Assumptions   |
|-----------------------------------|---|--|--|
| C405.2.3.1<br>[EL22] <sup>1</sup> | Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern $\geq 50$ percent.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.2.1.1<br>[EL18] <sup>1</sup> | Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces $\leq 300$ sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                            |
| C405.2.1.2<br>[EL19] <sup>1</sup> | Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.2.1.3<br>[EL20] <sup>1</sup> | Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces $\geq 300$ sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas $\leq 600$ sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by $\geq 80\%$ of the full zone general lighting power within 20 minutes of all occupants leaving that control zone. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><br><b>Location on plans/spec:</b> E1.0,E3.0 |
| C405.2.2.1<br>[EL21] <sup>2</sup> | Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                                   | Rough-In Electrical Inspection   | Complies?  | Comments/Assumptions   |
|--|--|--|--|
| C405.2.4, C405.2.4.1, C405.2.4.2 [EL23] <sup>2</sup> | Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.                          | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><b>Location on plans/spec:</b> E1.0,E3.0                 |
| C405.2.5 [EL27] <sup>1</sup>                         | Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><b>Location on plans/spec:</b> E1.0                      |
| C405.2.7 [EL28] <sup>1</sup>                         | Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.<br><b>Location on plans/spec:</b> E2.0 |
| C405.7 [EL26] <sup>2</sup>                           | Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.8 [EL27] <sup>2</sup>                           | Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist). | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.9.1, C405.9.2 [EL28] <sup>2</sup>               | Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.10 [EL29] <sup>2</sup>                          | Total voltage drop across the combination of feeders and branch circuits <= 5%.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.1.1 [EL30] <sup>2</sup>                         | At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.11, C405.11.1 [EL31] <sup>2</sup>               | 50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|



| Section # & Req.ID                         | Final Inspection  | Complies?  | Comments/Assumptions                                   |
|--|---|--|--|
| C303.3, C408.2.5.2 [FI17] <sup>3</sup>     | Furnished O&M instructions for systems and equipment to the building owner or designated representative.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C303.3, C408.2.5.3 [FI8] <sup>3</sup>      | Furnished O&M manuals for HVAC systems within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.3.1 [FI27] <sup>3</sup>               | HVAC systems and equipment capacity does not exceed calculated loads.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.1 [FI47] <sup>3</sup>               | Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.1.1 [FI42] <sup>3</sup>             | Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.1.2 [FI38] <sup>3</sup>             | Thermostatic controls have a 5 °F deadband.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.1.3 [FI20] <sup>3</sup>             | Temperature controls have setpoint overlap restrictions.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.2 [FI39] <sup>3</sup>               | Each zone equipped with setback controls using automatic time clock or programmable control system.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.2.1, C403.4.2.2 [FI40] <sup>3</sup> | Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C403.4.2.3 [FI41] <sup>3</sup>             | Systems include optimum start controls.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C404.3 [FI11] <sup>3</sup>                 | Heat traps installed on supply and discharge piping of non-circulating systems.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C405.5.1 [FI19] <sup>1</sup>               | Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.    | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Exterior Lighting fixture schedule for values. |

☐ 1 High Impact (Tier 1)
 ☒ 2 Medium Impact (Tier 2)
 ☐ 3 Low Impact (Tier 3)

| Section # & Req.ID                | Final Inspection  | Complies?  | Comments/Assumptions     |
|-----------------------------------|---|--|--------------------------|
| C408.1.1<br>[FI57] <sup>1</sup>   | Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.1<br>[FI28] <sup>1</sup>   | Commissioning plan developed by registered design professional or approved agency.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.3.1<br>[FI31] <sup>1</sup> | HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.3.2<br>[FI10] <sup>1</sup> | HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.4<br>[FI29] <sup>1</sup>   | Preliminary commissioning report completed and certified by registered design professional or approved agency.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.5<br>[FI7] <sup>3</sup>    | Furnished HVAC as-built drawings submitted within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.5<br>[FI16] <sup>3</sup>   | Furnished as-built drawings for electric power systems within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.5.1<br>[FI43] <sup>1</sup> | An air and/or hydronic system balancing report is provided for HVAC systems.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.2.5.2<br>[FI30] <sup>1</sup> | Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C408.3<br>[FI33] <sup>1</sup>     | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                          |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|