

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	
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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 DRAWINGS.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY APPARATUS REQUIRED TO INSURE THE HEALTH OF WORKERS AS WELL AS THE OWNERS AND GENERAL PUBLIC. 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 DIMENSIONS SHOWN ON THE PLANS REPRESENT AN EXACT QUANTITY OF MATERIALS. THE BIDDER IS SOLEY RESPONSIBLE FOR THE QUANTITIES IN HIS BIDDING. 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 1/4". FLOOR PLAN DIMENSIONS ARE TO THE FACE OF STUD UNLESS OTHERWISE 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 MATERIAL IN QUESTION. 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 LOCATED. 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 REPRESENTATIVE. ALL ELECTRICAL WORK 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 PREFINISHED IN A MATCHING COLOR TO BE SELECTED BY ARCHITECT. COATING TYPE SHALL BE AS SPECIFIED.

NO 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:

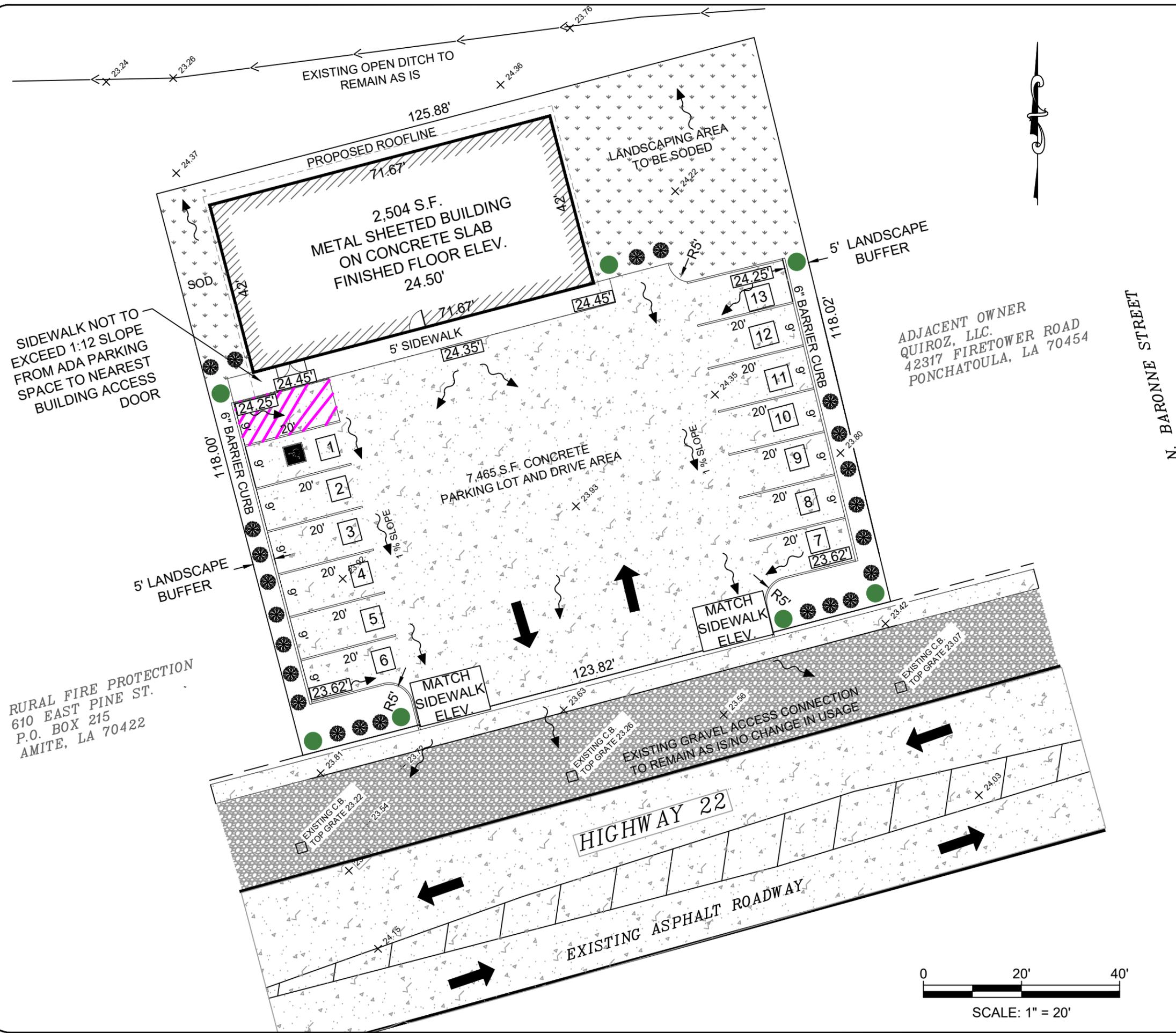
ALWAYS REFER TO ALL FIRE MARSHALL CAUTIONARY NOTES AND REVIEW LETTERS FOR ANY FINAL CHANGES THAT MAY NOT HAVE BEEN PUT INTO DRAWING AFTER FINAL REVIEW OF PLAN FROM THE FIREMARSHALL.



WARREN L. DIETZ JR. P.E.

Commerical
Planners

Covington, LA
70433



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
 TANGIPAHOA PARISH
 0.34 ACRES
 TOTAL ACRES: 1
 TOTAL BUILDINGS: 1
 STREET NAME:
 FLOOD ZONE: "X"
 CITY OF PONCHY ZONING: "C2"

GENERAL NOTES:
 1. 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.
 2. ELEVATIONS REFERENCE NAVD. 88 ELEVATION DATUM.
 3. REFERENCE BEARING - C4G NET - LA SOUTH ZONE.
 4. 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.
 5. FINISHED FLOOR ELEVATION OF PROPOSED TIRE SHOP TO BE 24.50'
 6. SITE RESIDES IN FLOOD ZONE "X". NO BFE ASSIGNED.

DRAINAGE NOTES:
 1. SITE IS 90% IMPERVIOUS IN ITS CURRENT STATE AS PRIOR OCCUPANCY WAS A PIANO SHOP.
 2. (3)-THREE EXISTING CATCH BASINS WERE FOUND ALONG THE NORTH SIDE OF PINE ST. FRONTING SUBJECT PROPERTY.
 3. AN EXISTING SWALE WAS FOUND ALONG THE NORTHERN EDGE OF EXISTING SLAB.
 4. BACK HALF OF PROPOSED BUILDING TO DRAIN INTO THE EXISTING SWALE ALONG THE NORTHERN BOUNDARY LINE.
 5. 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

STATE OF LOUISIANA
 ROBERT C. BARRILLEAUX
 License No. 280610-2027
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
 Robert C. Barrilleaux, P.E.
 LA. REG. NO. 28869



SIDEWALK NOT TO EXCEED 1:12 SLOPE FROM ADA PARKING SPACE TO NEAREST BUILDING ACCESS DOOR

ADJACENT OWNER
 QUIROZ, LLC.
 42317 FIRE TOWER ROAD
 PONCHATOULA, LA 70454

RURAL FIRE PROTECTION
 610 EAST PINE ST.
 P.O. BOX 215
 AMITE, LA 70422

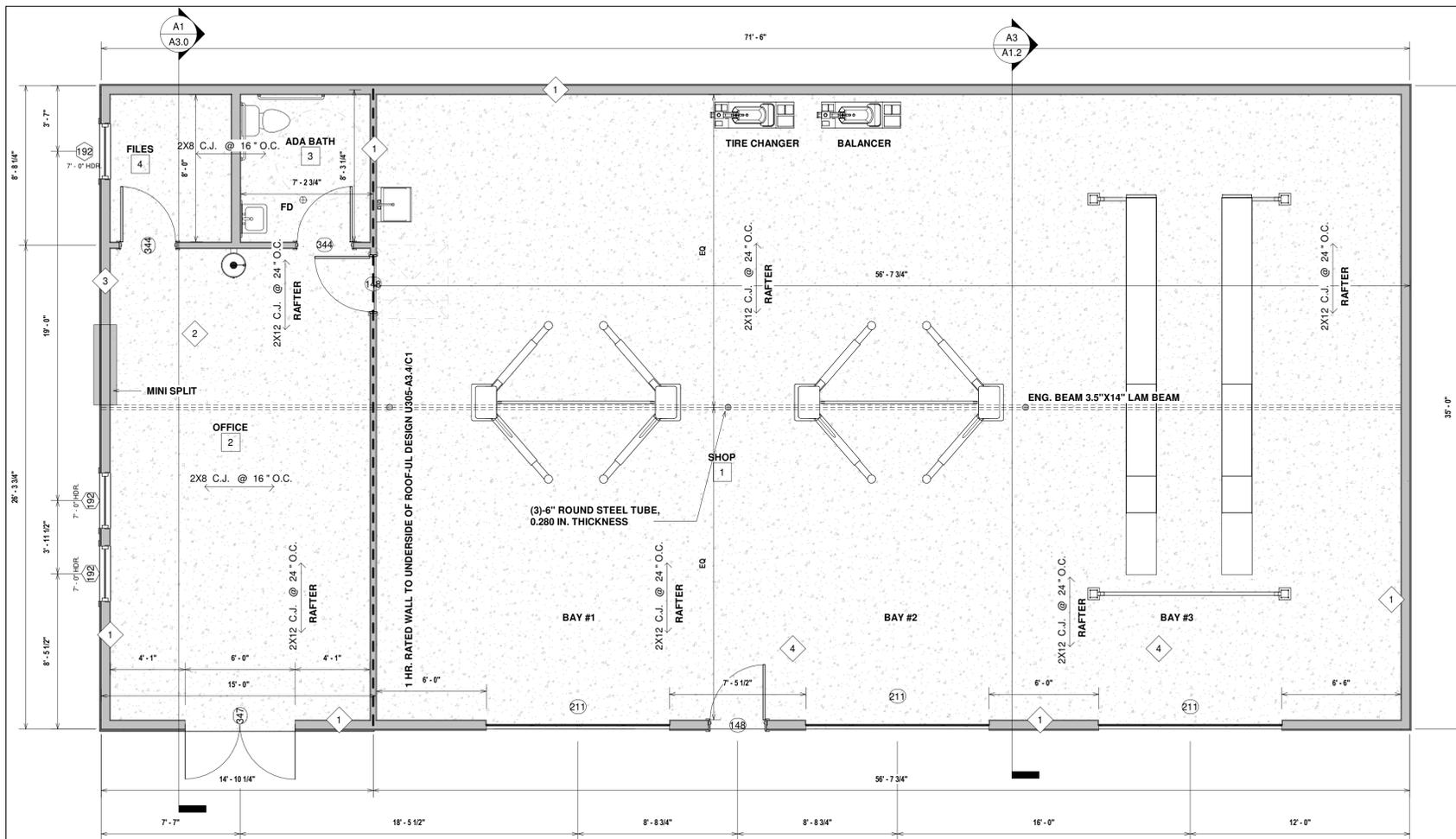
Robert Barrilleaux & Associates, Inc.
 Engineers - Environmental Consultants
 42333 Deluca Plaza Suite 8
 Hammond, LA
 Ph: (985) 542-0391
 Fax: (985) 542-6516
 Engineer - Robert C. Barrilleaux, PE # 28869



NO.	DESCRIPTION	DATE	BY

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

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

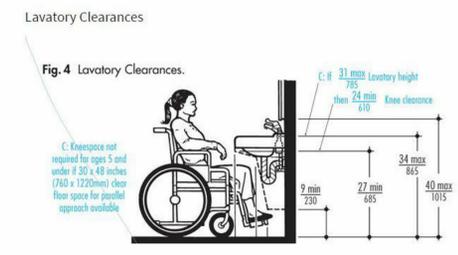
SQ. FOOTAGE	
Comments	Area
UNCONDITIONED	
OFFICE	527 SF
SHOP AREA	1978 SF
UNCONDITIONED	2504 SF
Grand total	2504 SF

KEYNOTES

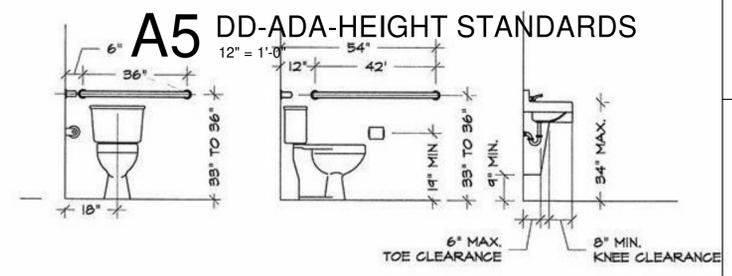
- 1 EXTERIOR WALLS- OSB ON EXT AND INT TO MAKE SHEAR / X BRACING WALLS.
- 2
- 3 MINI SPLIT A/C
- 4 DEMO EXISTING SLAB COMPLETELY

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

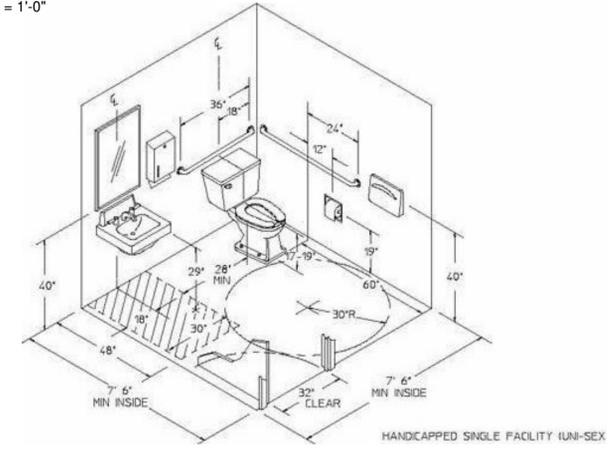
ADA HEIGHT STANDARDS
SCALE: NO SCALE



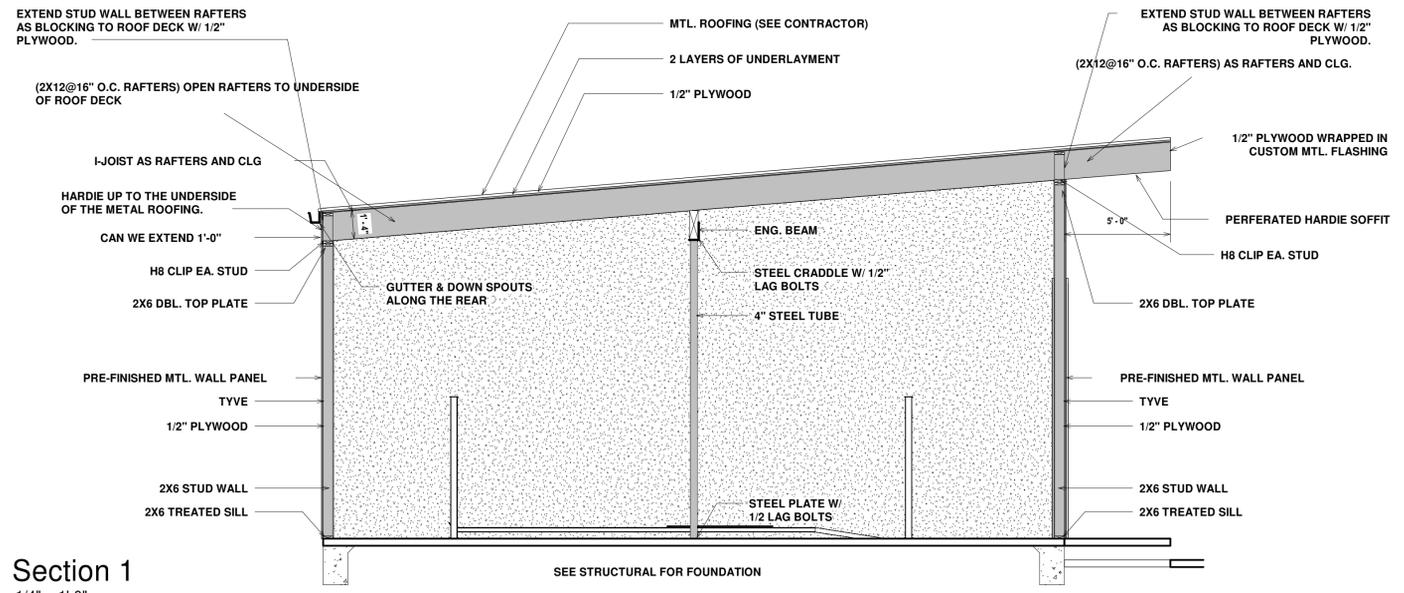
Toilets and Lavs



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



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



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

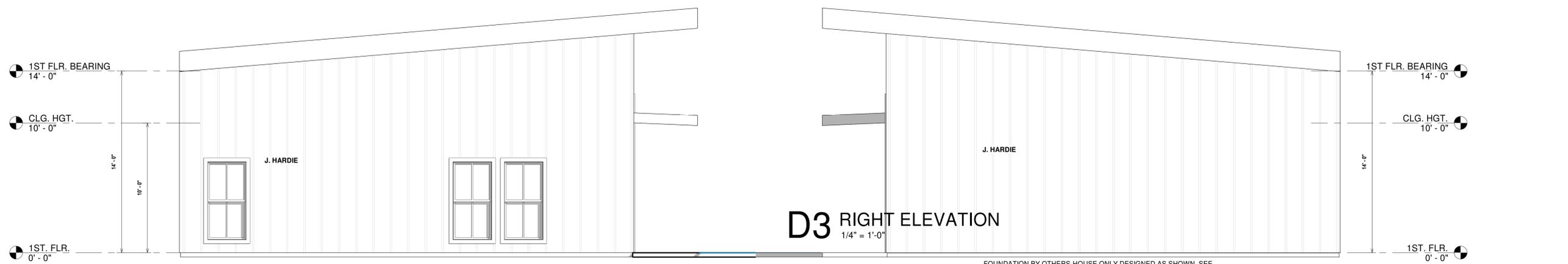
WARREN L. DIETZ JR. P.E.
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985-809-8033

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



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

SHEET
A1.2

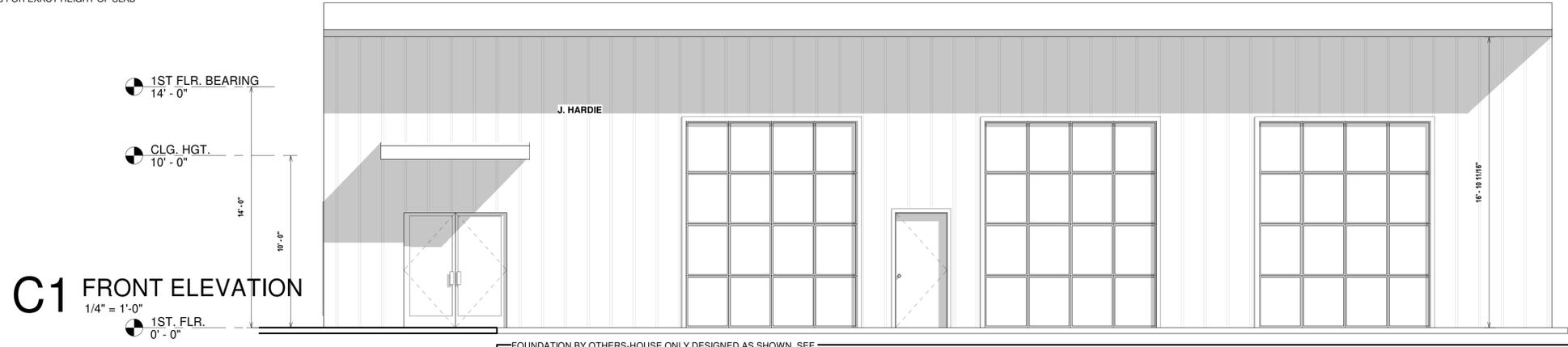


D1 LEFT ELEVATION
1/4" = 1'-0"

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

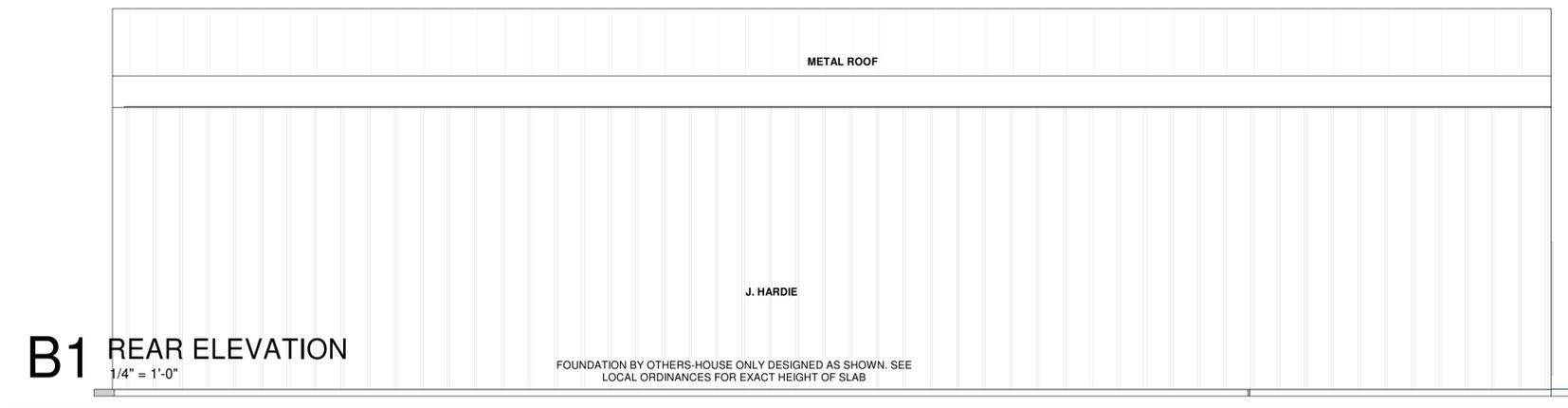
FOUNDATION BY OTHERS-HOUSE ONLY DESIGNED AS SHOWN. SEE LOCAL ORDINANCES FOR EXACT HEIGHT OF SLAB

FOUNDATION BY OTHERS-HOUSE ONLY DESIGNED AS SHOWN. SEE LOCAL ORDINANCES FOR EXACT HEIGHT OF SLAB



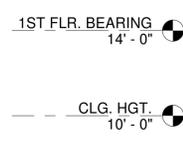
C1 FRONT ELEVATION
1/4" = 1'-0"

FOUNDATION BY OTHERS-HOUSE ONLY DESIGNED AS SHOWN. SEE LOCAL ORDINANCES FOR EXACT HEIGHT OF SLAB

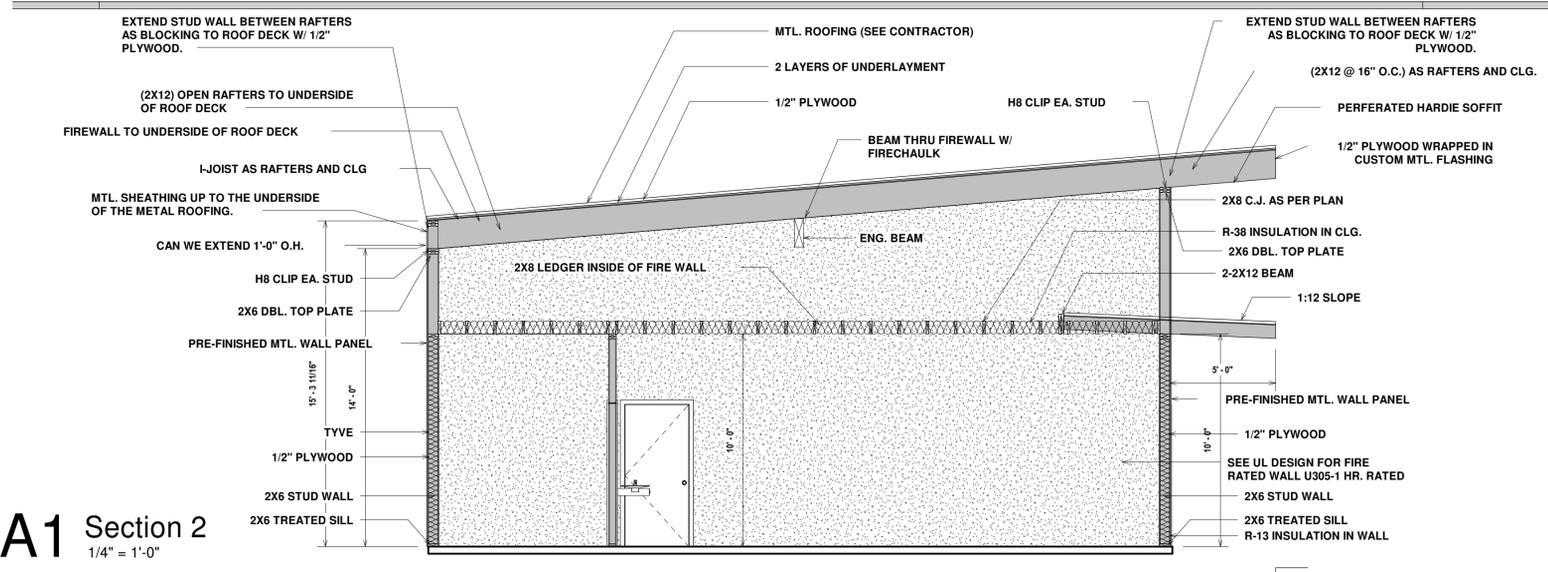


B1 REAR ELEVATION
1/4" = 1'-0"

FOUNDATION BY OTHERS-HOUSE ONLY DESIGNED AS SHOWN. SEE LOCAL ORDINANCES FOR EXACT HEIGHT OF SLAB

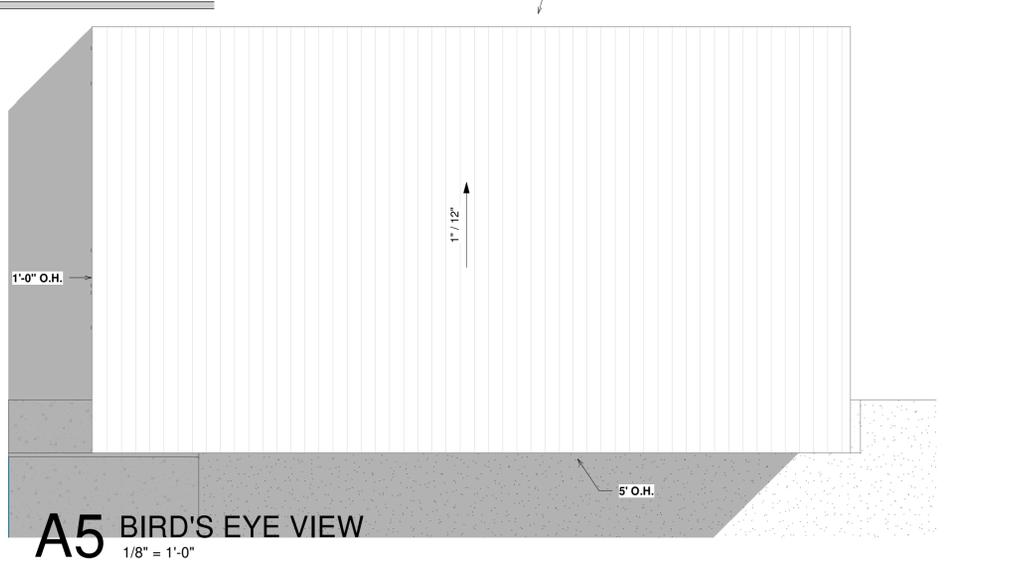


Roof Schedule	
Type	Area
2X6 STANDING SEAM	2883 SF
	2883 SF
2X8 STANDING SEAM	87 SF
	87 SF
	2970 SF



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

SEE STRUCTURAL FOR FOUNDATION



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

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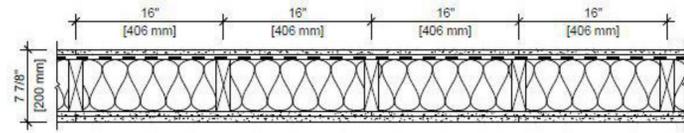


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Checked by: MKB
Project number: DD-225C
Date: 7/22/2024

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. [0.018"], 24" [610 MM] O.C.
 WOOD STUDS: 2" X 8" [38 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:

- REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
- FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
- WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
- STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
- STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
- PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
- FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
- 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.
- WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
- 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.

USG CGC

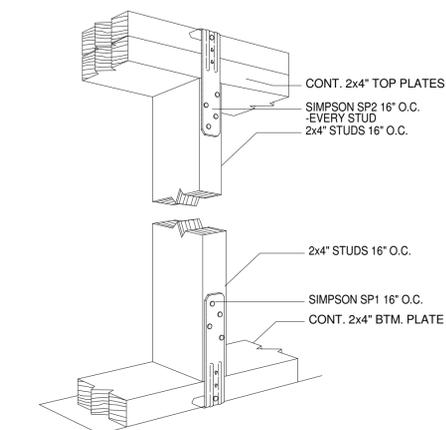
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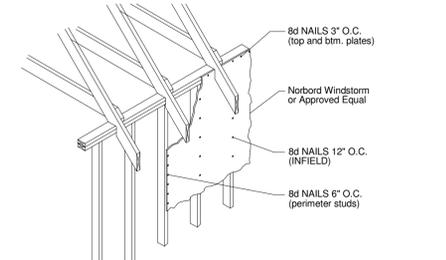
UL U305

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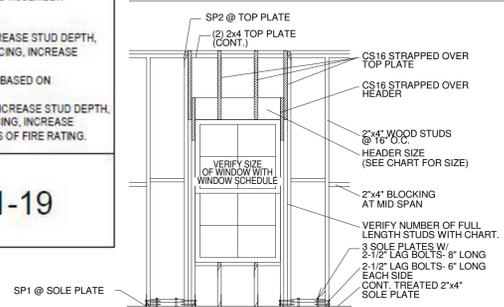
C1 U305
 3/4" = 1'-0"



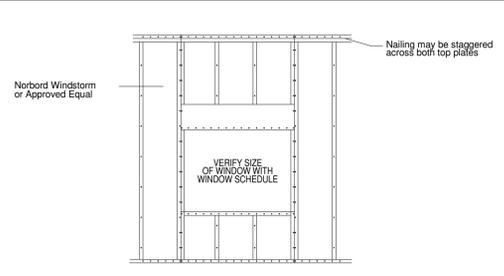
Typical Stud Strapping @ Top & Btm Pl.



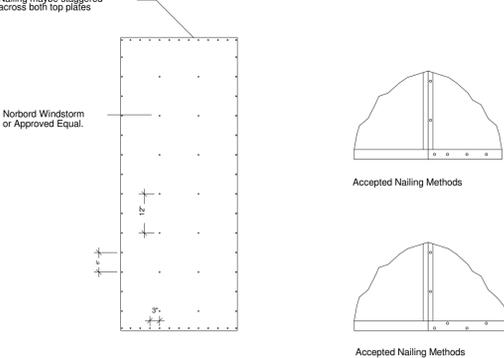
Typical Wall Sheathing Top Plate Detail



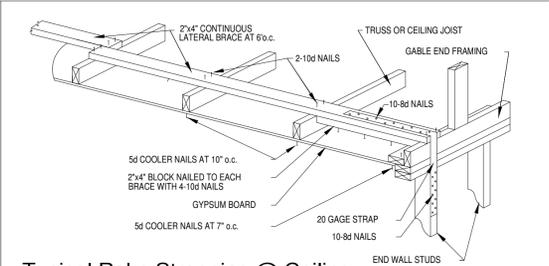
Typical Window Strapping Detail (Similar to Door Opening)



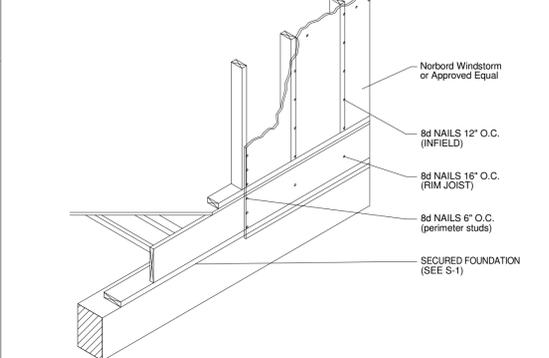
Typical Window Opening Detail (Similar to Door Opening)



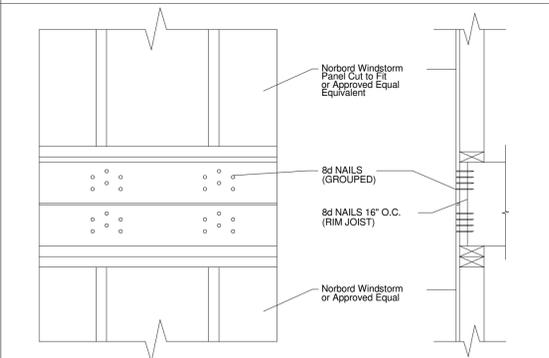
Typical Wall Sheathing Nailing Pattern



Typical Rake Strapping @ Ceiling



Typical Mid-Band Connection



Typical Gable Connection

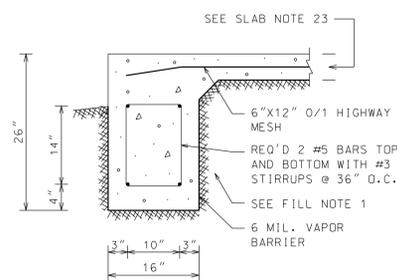
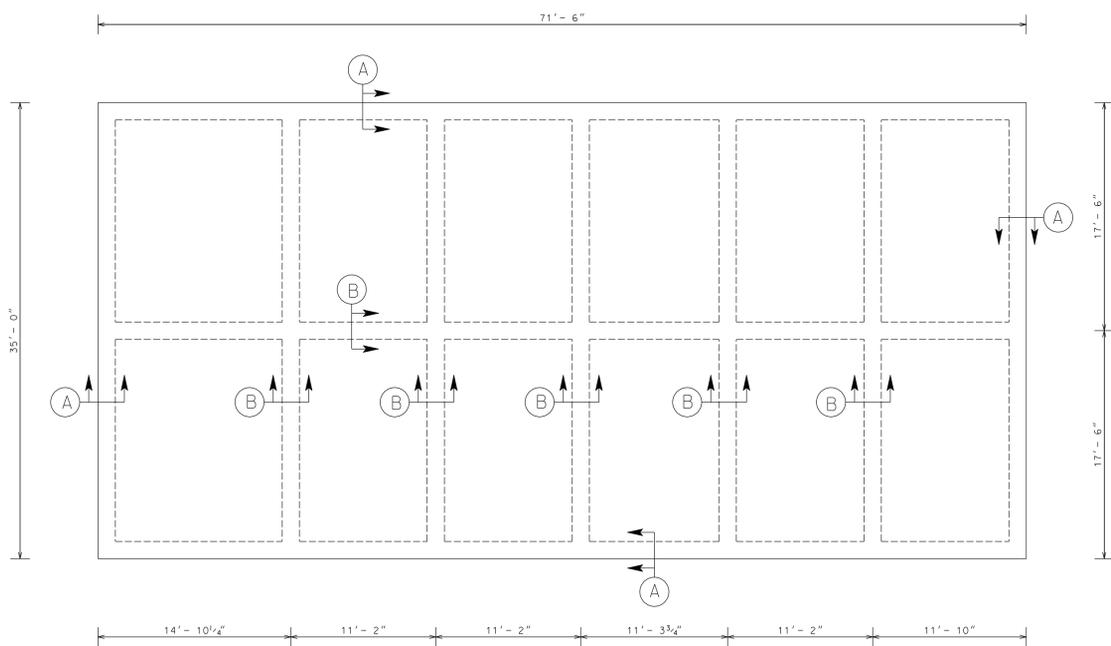
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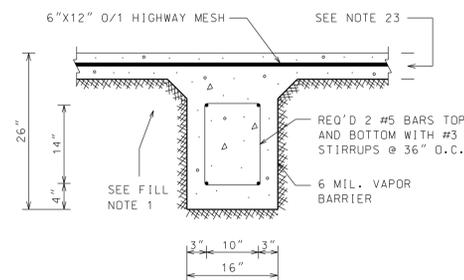


Drawn by: JJB
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 Project number: DD-225C
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SHEET
A3.4



SECTION A



SECTION B

NOTE: WHEN THE EXACT LOCATIONS OF ALL LIFTING EQUIPMENT ARE KNOWN, THE FOUNDATION WILL NEED TO BE REVISED TO HANDLE THE WEIGHT INDUCED UPON THE SLAB BY THE LIFTING EQUIPMENT. FAILURE TO REVISE FOUNDATION TO ACCOMMODATE THE WEIGHT OF THE LIFTING EQUIPMENT COULD/WILL RESULT IN PREMATURE SETTTLING/FAILURE OF THE FOUNDATION SYSTEM.

LOCATION

THIS PLAN IS TO BE USED ONLY FOR THE LOCATION: DEVIER CONSTRUCTION, THE SHOP, HIGHWAY 22, TANGIPAHOA PARISH, LOUISIANA.

GENERAL CONSTRUCTION

1. FILL UNDER SLABS SHALL BE PLACED AND COMPACTED TO 95% MAXIMUM DRY DENSITY USING MODIFIED PROCTOR TEST AND ASTM D-1557.
2. BEAM DIMENSIONS SHOWN ARE REQUIRED AND MAY NOT BE REDUCED NOR ENLARGED WITHOUT THE APPROVAL OF THE ENGINEER
3. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, INSERTS AND ANY OTHER RELATED ITEMS.
4. ALTERATION OR DEVIATION FROM THE INFORMATION SHOWN ON THIS SHEET WITHOUT THE WRITTEN ADVANCE APPROVAL WILL VOID DESIGNERS RESPONSIBILITY.
5. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
6. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
7. NO FIELD SUPERVISION PROVIDED UNLESS OTHERWISE NOTED.
8. SOIL TO BE TERMITE TREATED PRIOR TO THE PLACEMENT OF CONCRETE. AFTER SOIL IS TERMITE TREATED, 6 MIL. VAPOR BARRIER TO BE PLACED OVER SOIL.

CONCRETE

9. LAPS, SPLICES, TIES, AND IMBEDMENT LENGTHS FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH A.C.I. "MANUAL OF STANDARD PRACTICE, DETAILS, AND DETAILING OF CONCRETE REINFORCEMENT", A.C.I. 318, A.C.I. 315, AND IN ACCORDANCE WITH C.R.S.I. STANDARDS. ALL CONCRETE WORK SHALL BE IN STRICT ACCORDANCE WITH A.C.I. STANDARD SPECIFICATION FOR CONCRETE AND REINFORCEMENT CONCRETE. ALL CONCRETE PLACEMENT SHALL CONFORM TO A.C.I. 301 AND A.C.I. 318. CONFORM TO A.C.I. 301 AND A.C.I. 318.
10. THE CONCRETE CONTRACTOR SHALL THOROUGHLY CONSOLIDATE THE CONCRETE. ALL CONCRETE SHALL BE MONOLITHICALLY PLACED SUCH THAT NO CONCRETE IS PLACED ATOP HARDENED CONCRETE. CONCRETE IS TO BE PLACED WITH NO COLD JOINTS OR POUR LINES.
11. COMPRESSION EMBEDMENT LENGTH SHALL BE 30 BAR DIAMETERS UNLESS NOTED OTHERWISE
12. CLEAR DISTANCE BETWEEN ADJACENT LAYERS OF REINFORCEMENT SHALL BE 2 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
13. THE CONTRACTOR SHALL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED ON THE DRAWINGS WHEN ESSENTIAL TO CONSTRUCTABILITY, SUBJECT TO ENGINEERS APPROVAL.
14. SUBJECT TO ENGINEERS APPROVAL, BARS MAY BE SHIFTED SLIGHTLY IN THE FIELD WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS, OR OTHER OBSTRUCTIONS.
15. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A.C.I. 318.
16. LACEMENT, CLEARANCES, AND MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH A.C.I. 318.
17. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS, SLOPES, RECESSES, LEDGES, AND STEPS.
18. ALL CONCRETE SHALL BE ASTM C94, A.C.I.-318, NORMAL WEIGHT, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH.
19. BOTTOMS OF ALL EXCAVATIONS AND EARTHEN FORMS SHALL BE FLAT, LEVEL, TRUE TO GRADE LINE, AND COMPLETELY FREE OF LOOSE DIRT, DEBRIS, AND SLUSH. DAMPEN EARTH AGAINST WHICH CONCRETE IS POURED JUST PRIOR TO THE POUR, BUT DO NOT POUR INTO TRENCHES WITH STANDING WATER.
20. ONE LAYER OF 6 MIL POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. THE JOINTS IN THE MEMBRANE SHALL BE LAPPED AND SEALED WITH AN ADHESIVE COMPATIBLE WITH THE WATERPROFFING MEMBRANE.
21. FORMS FOR EXPOSED FINISH CONCRETE: PLYWOOD, METAL, METAL-FRAMED PLYWOOD FACED, OR OTHER ACCEPTABLE PANEL-TYPE MATERIAL TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH, EXPOSED SURFACES
22. ALL REINFORCING STEEL SHALL BE GRADE 60 BAR CONFORMING TO THE LATEST EDITION OF ASTM.
23. 6" SLAB THICKNESS THROUGHOUT THE FOUNDATION.

DESIGN

24. THE FOUNDATION SHOWN ON THIS DRAWING HAS BEEN DESIGNED USING ACCEPTABLE ENGINEERING PRACTICES AND IN ACCORDANCE WITH THE CRITERIA FOR THE SELECTION AND OF COMMERCIAL PTI CLASS 4 TWO WAY SLAB, THE AMERICAN CONCRETE INSTITUTE'S BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AND THE PRE-STRESSED CONCRETE INSTITUTE'S TENTATIVE SPECIFICATIONS FOR THE POST-TENSIONED MATERIALS TO INSURE QUALITY.

DUE TO THE LACK OF SPECIFIC GEOTECHNICAL INFORMATION, THIS SLAB HAS BEEN DESIGNED USING ACCEPTABLE GEOTECHNICAL VALUES FOR THE EXISTING SOIL ON THE PROPERTY. THE DESIGNER IS NOT RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED CONDITIONS MITIGATING THE ABOVE ASSUMPTIONS.

PLEASE BE ADVISED THAT THESE PLANS HAVE BEEN DESIGNED BY MYSELF, BEING A REGISTERED CIVIL ENGINEER IN THE STATE OF LOUISIANA, AND THE DESIGN SPECIFICATIONS COMPLY WITH ALL LOCAL REQUIREMENTS TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I AM NOT GENERALLY ADMINISTERING THE WORK.

WARREN L. DIETZ JR.

REG. NO. 28536

NOTE: HIGHWAY MESH CHAIRS MAY BE USED IN LIEU OF STIRRUPS

Dietz Consulting Engineers
Foundation Designs * Plan Review * Home Inspections

Warren "Skip" Dietz
Owner - Civil Engineer

Phone No: (504) 512-2099
Email: wldietz@earthlink.net

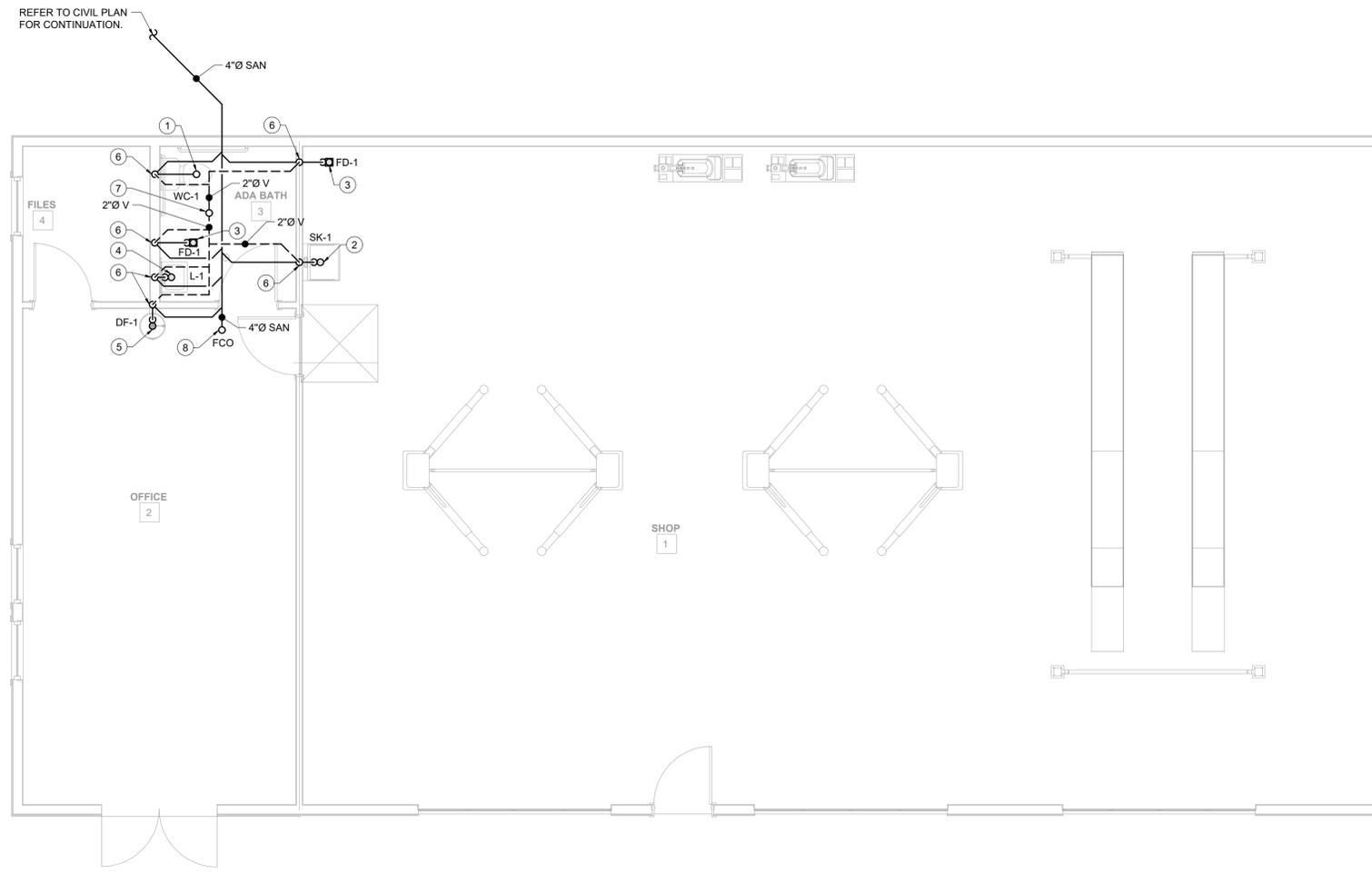
DEVIER CONSTRUCTION
THE SHOP, HIGHWAY 22
TANGIPAHOA PARISH, LOUISIANA
FOUNDATION DESIGN

STAMP:

DATE: JULY 2024	DRAWN BY: WLD
SCALE: AS SHOWN	CHECKED BY: WLD
PROJECT NO. 20240057	

SHEET
S-1
OF

FOR NOBODY CAN LAY ANY FOUNDATION OTHER THAN THE ONE ALREADY LAID, WHICH IS JESUS CHRIST - 1 CORINTHIANS 3:11



REFER TO CIVIL PLAN FOR CONTINUATION.

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:



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

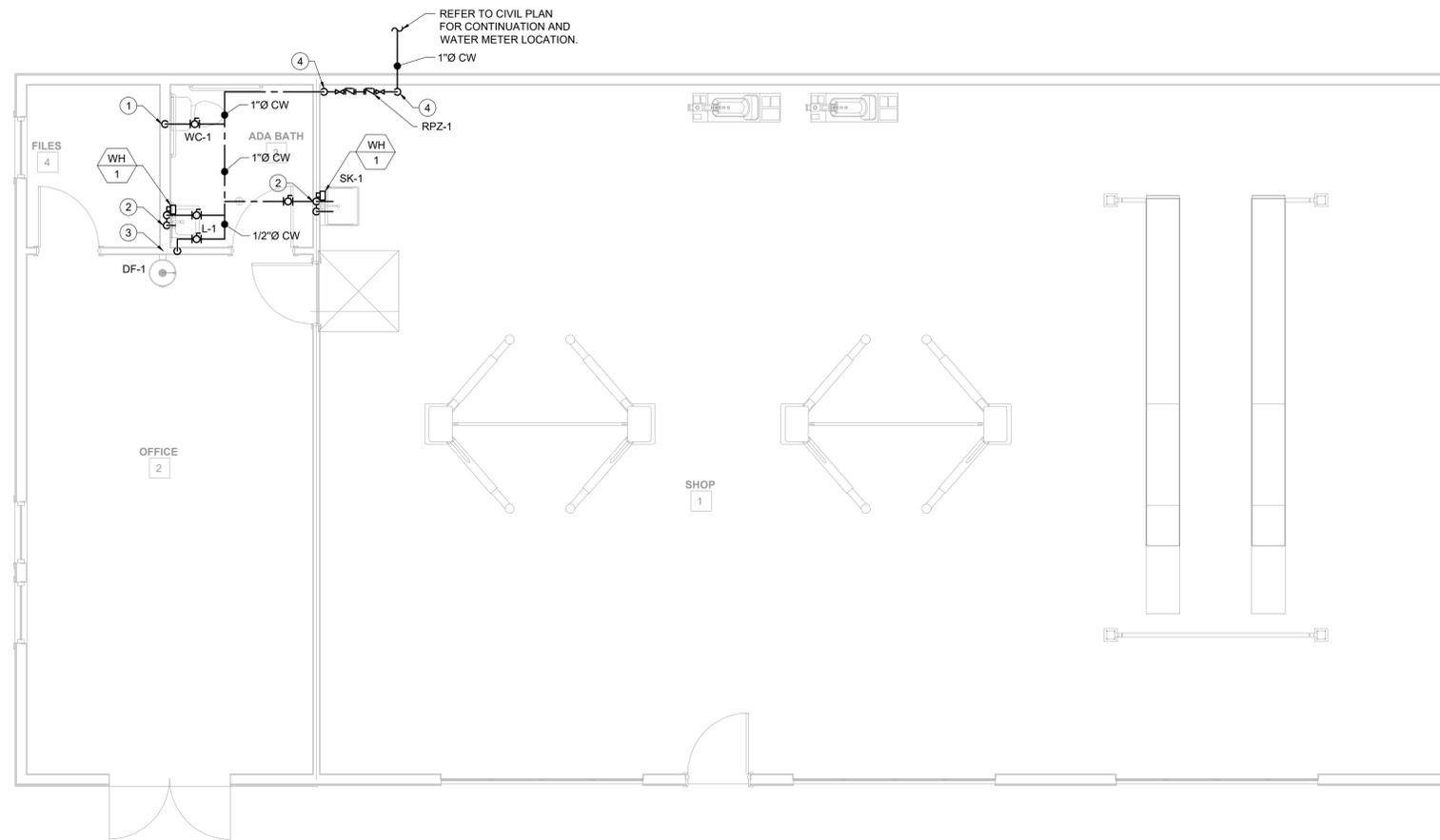
NO.	ISSUE/REVISION	DATE
0	ISSUED FOR PERMIT	09/05/2024

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



NORTH
 1
DOMESTIC WATER FLOOR PLAN
 SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

1. 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.
2. REFER TO THE PLUMBING ROUGH-IN SCHEDULES FOR THE SIZES OF BRANCH PIPES OF FIXTURES NOT SHOWN ON PLANS.
3. REFERS TO FIXTURE & EQUIPMENT DESIGNATION. SEE CORRESPONDING SPECIFICATION AND EQUIPMENT SCHEDULE FOR FURTHER INFORMATION.
4. PROVIDE ACCESS DOORS FOR SHOCK ABSORBERS, TRAP PRIMERS AND VALVES. COORDINATE FINAL LOCATIONS WITH PARTITIONS AND ARCHITECT.
5. THE CONTRACTOR SHALL EXACT LOCATION OF WATER METER AT SITE.

FLOOR PLAN KEYNOTES:

1. 3/4" CW PIPE DN TO WC-1.
2. 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.
3. 1/2" CW PIPE DN TO DF-1.
4. 1" CW PIPE DN.

PROJECT FOR:

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

SEAL & SIGN:



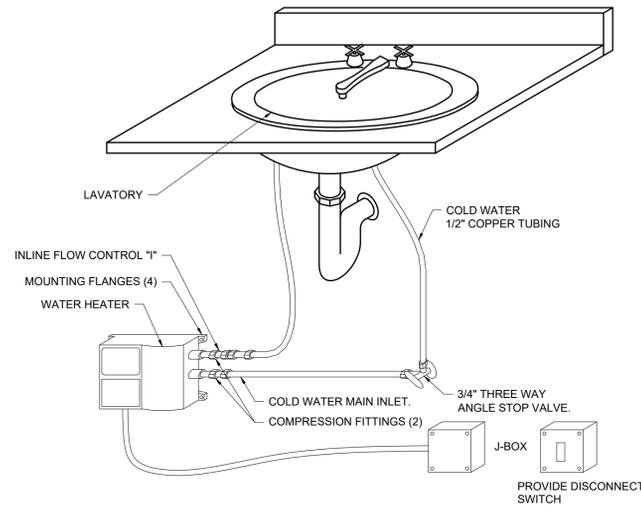
NO.	ISSUE/REVISION	DATE
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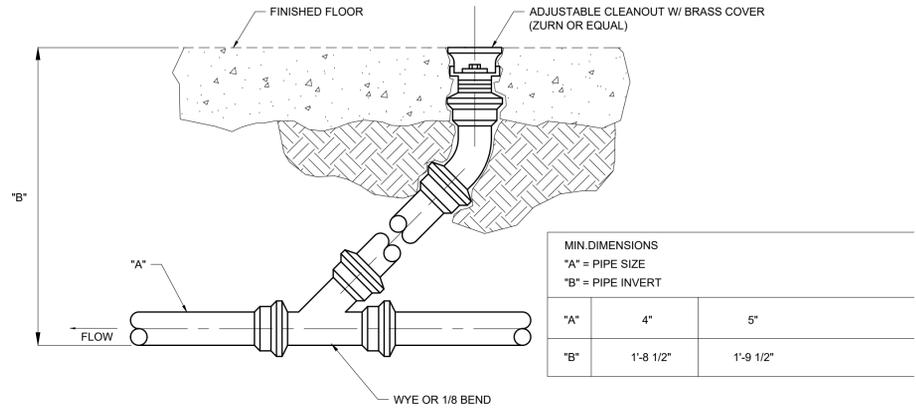
**DOMESTIC WATER
 FLOOR PLAN**

DRAWN BY: V.T.
 CHECKED BY: S.P.
 DATE: 09/05/2024
 SCALE: 1/4"=1'-0"

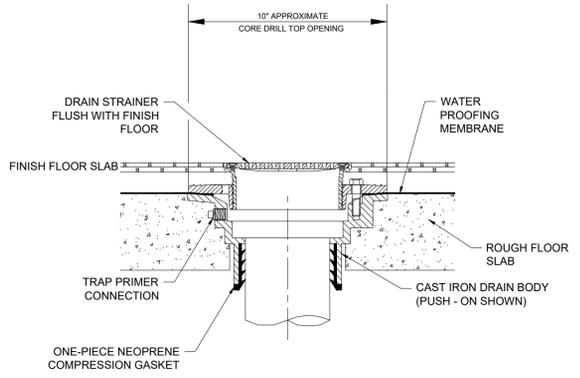
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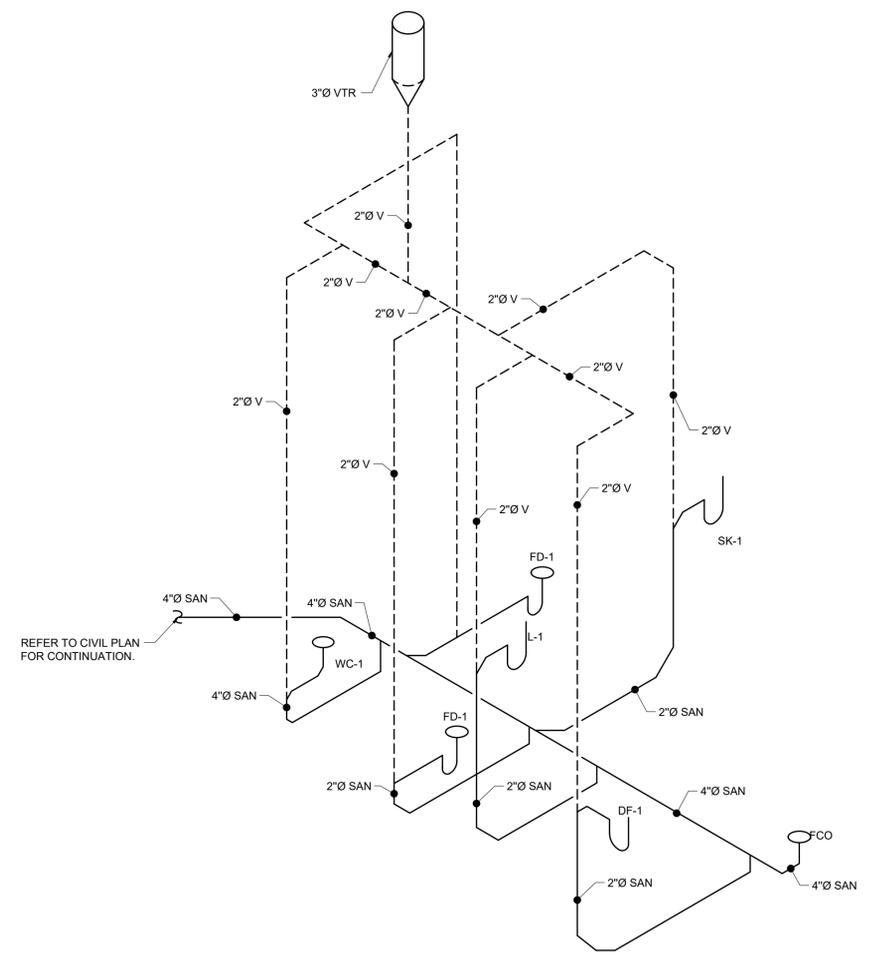
3 POINT OF USE WATER HEATER DETAIL
SCALE: N.T.S.



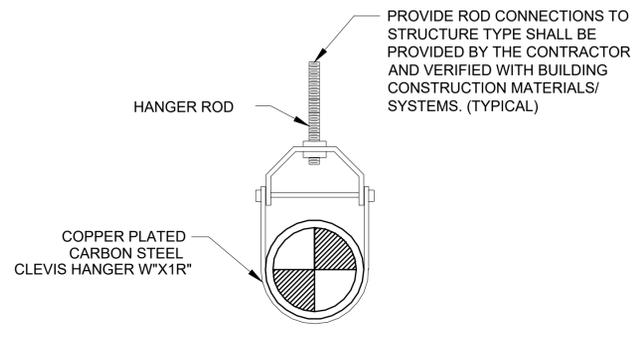
2 TYPICAL CLEANOUT TO FINISHED FLOOR
SCALE: N.T.S.



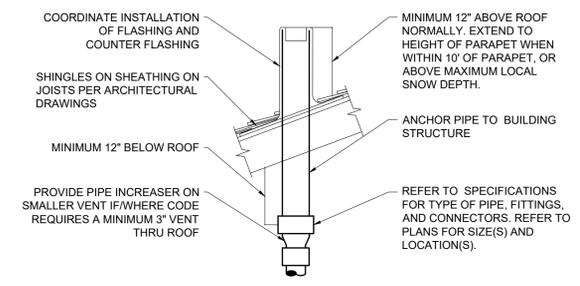
1 FLOOR DRAIN DETAIL
SCALE: N.T.S.



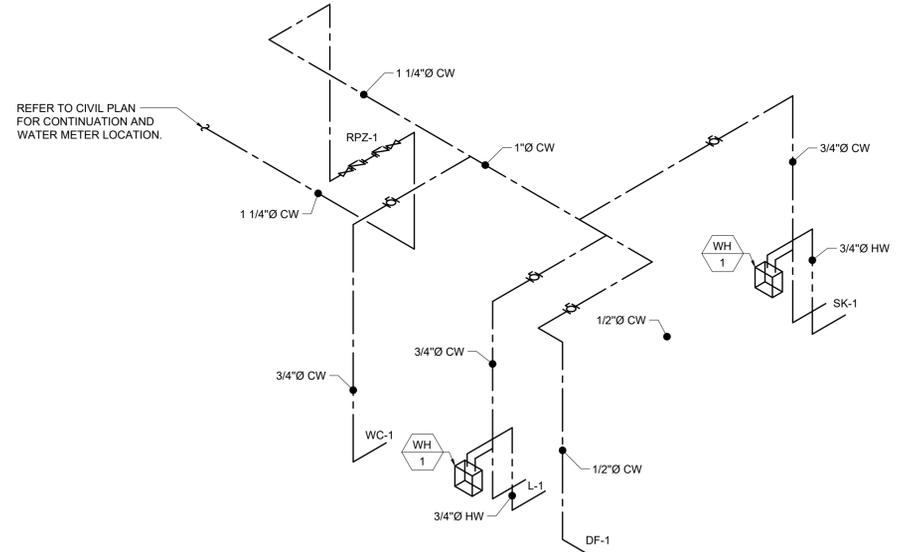
7 SANITARY DRAINAGE RISER DIAGRAM
SCALE: N.T.S.



5 PIPE HANGER SUPPORT DETAIL
SCALE: N.T.S.

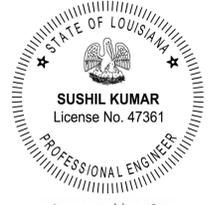


4 VENT THROUGH GABLED ROOF DETAIL
SCALE: N.T.S.



6 DOMESTIC WATER RISER DIAGRAM
SCALE: N.T.S.

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

SEAL & SIGN:

Sushil Kumar
EXP: 03/31/2025

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PLUMBING DETAILS

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

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 (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
			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	2" AND LARGER	SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL
			2" AND LARGER	SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL
			2" AND LARGER	SANITARY PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) PER ASTM D 2665, WITH GASKETS PER ASTM C 1440, ELASTOMERIC SEAL
CW	DOMESTIC COLD 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
			2" AND SMALLER	DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159
		BURIED	2 1/2" AND LARGER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22
			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 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
			2" AND SMALLER	DOMESTIC PIPE SHALL BE POLYETHYLENE CROSSLINK(PEX-B) PIPE PER ASTM F876 F877, WITH FITTINGS PER ASTM F1807, F2159
		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
			2 1/2" AND LARGER	COPPER PIPE, ASTM B88, DRAWN TYPE L AND K WITH WROUGHT COPPER PRESSURE FITTINGS, SOLDERED, ASME B16.22

NOTE:
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:
1. REFER TO ARCHITECTURE, OWNERSHIP OR INTERIOR DESIGNER FOR ALL FIXTURE SELECTION AND ACCESSORIES. ALL ARE SUBJECT TO CHANGE.

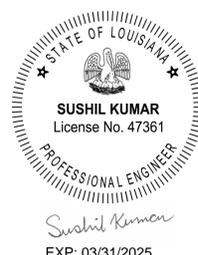
PLUMBING FIXTURE DEMAND TABULATION												
FIXTURE TAG	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUB-TOTAL	LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU)			LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU)			REMARK
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
WC-1	WATER CLOSET (FLUSH 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				13.7	8	15.4	GPM
WSFU = WATER SUPPLY FIXTURE UNITS					4"				1"	-	1"	INCHES REQ'D.

POINT OF USE WATER HEATER SCHEDULE													
SYMBOL	TYPE	QTY.	LOCATION	AMPS	PIPE FITTING (NPT)	ELECTRICAL DATA		DIMENSIONS (INCH.)			SHIPPING WEIGHT (LBS)	MODEL	BASIS OF DESIGN
						Kw	VOLT/PHASE / HZ	HEIGHT	WIDTH	DEPTH			
WH-1	TANKLESS WATER HEATER	2	REFER TO PLAN	20	1/2"	4.8	240/1/60	10.5"	5.25"	3"	3	RTEH48	RHEEM

NOTE:
1. INSTALL AS PER THE MANUFACTURER'S INSTRUCTIONS.

PROJECT FOR:

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

SEAL & SIGN:

Sushil Kumar
EXP: 03/31/2025

0 ISSUED FOR PERMIT 09/05/2024

NO. ISSUE/REVISION DATE

SHEET NAME:

PLUMBING SCHEDULES

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

P4.0

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCT WIDTH x DEPTH CLEAR INSIDE DIMENSION
	SUPPLY AIR DUCT SECTION UP - DOWN
	RETURN AIR DUCT SECTION UP - DOWN
	EXHAUST AIR DUCT SECTION UP - DOWN
	ROUND SUPPLY AIR DUCT SECTION UP - DOWN
	ROUND RETURN AIR DUCT SECTION UP - DOWN
	ROUND EXHAUST AIR DUCT SECTION UP - DOWN
	SQUARE ELBOW W/TURNING VANES
	DROP IN DUCT (DIRECTION OF FLOW)
	RISE IN DUCT (DIRECTION OF FLOW)
	TAKE-OFF DAMPER/EXTRACTOR
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	FIRE & SMOKE DAMPER
	MOTORIZED DAMPER
	RECTANGULAR TO ROUND TRANSITION
	SUPPLY DIFFUSER
	SUPPLY GRILLE
	EXHAUST GRILLE
	RETURN GRILLE
	CONDENSATE DRAIN PIPE
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	GAS PIPE
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	MAKEUP WATER
	REFRIGERANT PIPE
	REDUCER
	UNION
	PIPE DOWN
	PIPE UP
	GAS PRESSURE REDUCING VALVE (GPR) WITH VENT
	ISOLATION VALVE
	SOLENOID VALVE
	BALL VALVE (2-1/2" AND SMALLER)
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE (3" AND LARGER)
	BALANCING VALVE
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	RELIEF(R), OR SAFETY(S) VALVE
	PUMP, IN SCHEMATIC PRESENTATION
	THERMOSTAT
	HUMIDISTAT
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	DUCT TEMP / HUMID SENSOR
	NEW CONNECTION
	LIMIT OF DEMOLITION
	UNDERCUT
	SECTION TAKEN AT

ABBREVIATIONS

AC	AIR CONDITIONING	L	LENGTH
ACH	AIR CHANGES PER HOUR	LAT	LEAVING AIR TEMPERATURE
AD	ACCESS DOOR OR PANEL	LBS	POUNDS
AF	AIR FOIL	LRA	LOCKED ROTOR AMPS
AF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHU	AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE
ALT	ALTERNATE	MAX	MAXIMUM
AMP	AMPERE	MBH	THOUSAND BTUH
AP	ACCESS PANEL	MCA	MINIMUM CIRCUIT AMPACITY
ARCH	ARCHITECTURAL	MEZZ	MEZZANINE
ASSY	ASSEMBLY	MFR	MANUFACTURER
B	BOILER	MIN	MINIMUM
BAS	BUILDING AUTOMATION SYSTEM	MISC	MISCELLANEOUS
BDD	BACK DRAFT DAMPER	MTD	MOUNTED
BG	BELOW GRADE	MTG	MEETING
BHP	BRAKE HORSEPOWER	(N)	NEW
BI	BACKWARD INCLINED	NC	NORMALLY CLOSED
BLDG	BUILDING	NO	NORMALLY OPEN, OR NUMBER
BOP	BOTTOM OF PIPE	NPT	NATIONAL PIPE THREAD
BS	BELOW SLAB	N.R.	NOT REQUIRED
BTU	BRITISH THERMAL UNIT	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR	O.A.	OUTSIDE AIR
C	COMMON	OC	ON CENTER
CA	COMPRESSED AIR, COMBUSTION AIR	OD	OUTSIDE DIAMETER
CAP	CAPACITY	OFCl	OWNER FURNISHED,
CAP	CAPACITY	CONTRACTOR INSTALLED	
CB	CIRCUIT BREAKER	OFCl	OWNER FURNISHED,
CC	COOLING COIL	OSAI	OUTSIDE AIR
CD	CEILING DIFFUSER	OSAD	OUTSIDE AIR DAMPER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	P	PUMP
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CFH	CUBIC FEET PER HOUR	PH	PHASE
CH	CHILLER	PLBG	PLUMBING
CLG	CEILING	PLC	PROGRAMMABLE LOGIC CONTROL
CEF	CEILING EXHAUST FAN	PRV	PRESSURE REDUCING VALVE
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
COND	CONDENSER, CONDENSATE	PSIG	POUNDS PER SQUARE INCH GAGE
CONT	CONTINUATION	(R)	REMOVE
COP	COEFFICIENT OF PERFORMANCE	R OR RA	RETURN AIR
CTE	CONNECT TO EXISTING	RAD	RETURN AIR DAMPER
CU	CONDENSING UNIT	(RL)	RELOCATE
DB	DRY BULB, OR DECIBEL	REQD	REQUIRED
DDC	DIRECT DIGITAL CONTROL	RF	RETURN FAN
DET	DETAIL	RM	ROOM
DIA	DIAMETER	RPM	REVOLUTIONS PER MINUTE
DIM	DIMENSION	RTU	ROOFTOP HVAC UNIT
DN	DOWN	S OR SA	SUPPLY AIR
DWG	DRAWING	SAD	SUPPLY AIR DAMPER
(E)	EXISTING	SCH	SCHEDULE
EA	EACH, OR EXHAUST AIR	SF	SQUARE FEET
EAD	EXHAUST AIR DAMPER	SHT	SHEET
EAT	ENTERING AIR TEMPERATURE	SP	STATIC PRESSURE
EF	EXHAUST FAN	SQ	SQUARE
EFF	EFFICIENCY	SQ. FT.	SQUARE FEET
EG	EXHAUST GRILLE	SR	SPRING RANGE
EL	ELEVATION	SS	STAINLESS STEEL
ELEV	ELEVATION	STD	STANDARD
ENT	ENTERING	T OR TA	TRANSFER AIR
EQUIP	EQUIPMENT	T/A	TO ABOVE
ESP	EXTERNAL STATIC PRESSURE	T/B	TO BELOW
ET	EXPANSION TANK	TDH	TOTAL DYNAMIC HEAD
ETR	EXISTING TO REMAIN	TEMP	TEMPERATURE, OR TEMPORARY
EWT	ENTERING WATER TEMPERATURE	TOS	TOP OF SLAB
EXH	EXHAUST AIR	TSP	TOTAL STATIC PRESSURE
EXT	EXTERIOR	TTC	TIGHT TO CEILING
F	FAHRENHEIT	TYP	TYPICAL
F/A	FROM ABOVE	UNO	UNLESS NOTED OTHERWISE
F/B	FROM BELOW	V	VOLTS
FC	FORWARD CURVED	VA	VOLT-AMPERE
FCU	FAN COIL UNIT	VAV	VARIABLE AIR VOLUME
FLA	FULL LOAD AMPS	V.D.	VOLUME DAMPER
FLR	FLOOR	VEL	VELOCITY
FLR	FLOOR	VFD	VARIABLE FREQUENCY DRIVE
FLR	FLOOR	V.I.F.	VERIFY IN FIELD
FFM	FEET PER MINUTE	VOL	VOLUME
FPS	FEET PER SECOND	VV	VARIABLE VOLUME
FT	FEET	W	WITH
G	NATURAL GAS	WB	WET BULB
GA	GAUGE	WC	WATER COLUMN
GAL	GALLON	WG	WATER GAUGE
GALV	GALVANIZED	W/O	WITHOUT
GPM	GALLONS PER MINUTE		
GPR	GAS PRESSURE REDUCING VALVE		
GR.	GRILLE		
GSM	GALVANIZED SHEET METAL		
HC	HEATING COIL		
HP	HORSEPOWER, OR HEAT PUMP		
HTG	HEATING		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IN	INCHES		
KEF	KITCHEN EXHAUST FAN		
KW	KILOWATTS		
KWH	KILOWATT HOURS		

DUCTWORK / EQUIPMENT / PIPING LEGEND

	DEMOLISH LINE (EXISTING DUCTWORK, EQUIPMENT, AND PIPING TO BE REMOVED)
	EXISTING LINE (EXISTING DUCTWORK, EQUIPMENT, AND PIPING TO BE REMAIN)
	NEW LINE (NEW DUCTWORK, EQUIPMENT, AND PIPING TO BE INSTALLED)

NOTES:
ETR- EXISTING TO REMAIN.

EQUIPMENT IDENTIFICATION

XXX
X
XX

SYMBOL OR TYPE (SEE SCHEDULE OR SPECIFICATIONS)
IDENTIFICATION NUMBER (SEE SCHEDULE)
KEYNOTES

AIR DEVICE IDENTIFICATION

U= USAGE (S = SUPPLY, R = RETURN, E = EXHAUST, T = TRANSFER)
CFM = AIR QUANTITY
TYPE OF AIR DEVICE
NECK SIZE OF AIR DEVICE

GENERAL NOTES :

- ALL WORK PERFORMED SHALL CONFORM WITH LOCAL CITY & STATE REGULATIONS. ALL WORK SHALL BE CONDUCTED, INSTALLED AND COMPLETED IN A WORKMANLIKE AND APPROVED MANNER SO AS TO SECURE THE RESULTS INTENDED BY THESE DOCUMENTS.
- ALL WORK IS TO BE FULLY COORDINATED WITH ALL OTHER TRADES.
- CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND INCLUDING ANY ITEMS NOT INDICATED ON THE DRAWINGS BUT NECESSARY FOR PROPER OPERATION OF MECHANICAL SYSTEM.
- THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT & IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER & OWNER'S STIPULATION.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES & SHALL MAKE NECESSARY OFF-SETS & CHANGES IN ELEVATIONS TO ACCOMMODATE OTHER TRADES & THE EXISTING CONDITIONS.
- WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS & MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES & EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, & WORK OF OTHER TRADES PRIOR TO ROUGH IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL & REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
- ALL EQUIPMENT AND MATERIALS SHALL BE U.L. LISTED OR ETL.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THEIR WORK.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTORS WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- INCLUDE ALL OVERTIME NECESSARY TO MAINTAIN JOB SCHEDULE UNDER NORMAL CONDITIONS OR DUE TO THIS CONTRACTOR'S NEGLIGENCE OR INABILITY TO PROPERLY STAFF THE PROJECT.
- ALL MAJOR PIECES OF MECHANICAL EQUIPMENT SHALL BE STARTED AND ADJUSTED AND PUT INTO OPERATION BY A FACTORY REPRESENTATIVE OR A FACTORY TRAINED AND AUTHORIZED PERSONNEL. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- PRIOR TO BID, IF THE CONTRACTOR FINDS ANY DISCREPANCIES OR OMISSIONS IN THE PROJECT DOCUMENTS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IN WRITING & OBTAIN CLARIFICATION. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY ADDITIONAL WORK REQUIRED TO COMPLY WITH THESE DOCUMENTS.
- ALL CHANGE PROPOSAL REQUESTS FOR WORK ADDITIONAL TO THE BASE BID CONTRACT SHALL BE BASED ON MATERIAL, LABOR, OVERHEAD AND PROFIT AS PUBLISHED IN THE LATEST EDITION OF "MEANS MECHANICAL, ELECTRICAL, PLUMBING AND BUILDING CONSTRUCTION COST DATA." ALL CHANGE REQUESTS MUST BE BROKEN DOWN IN THE FOLLOWING MANNER.
 - MATERIAL COST: (I.E. EQUIPMENT, SHEET METAL PER POUND AND PIPING PER LINEAL FOOT/FITTING)
 - LABOR COST: (NUMBER OF HOURS AT CURRENT LABOR RATE PER HOUR) OVERHEAD & PROFIT: (INDICATING PERCENTAGES)
 - TOTAL CHANGE ORDER PRICE: (MATERIAL + LABOR + O&P)
 - PRICING FOR ALL ITEMS OF WORK WHICH ARE TO BE CREDITED TO THE PROJECT SHALL BE BROKEN DOWN IN A SIMILAR MANNER TO THE ADDED COSTS.
- THE ASSOCIATED COST FOR DRAFTING CHANGES (INCLUDING THREE DIMENSIONAL MODELING) SHALL NOT EXCEED 2% OF THE COST OF MATERIAL AND LABOR FOR THE CHANGE.
- ALL CUTTING AND PATCHING THAT IS REQUIRED TO COMPLETE THE WORK SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
- THE CONTRACTOR IS TO PROVIDE ALL LINTELS, SUPPORT STEEL AND FRAMING THAT IS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, AND COLUMNS AND WALLS AS SHOWN ON DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECTS BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
- PROVIDE ALL COORDINATION AND MISCELLANEOUS STEEL NECESSARY FOR SUITABLE ANCHORAGE OF HVAC ITEMS AND EQUIPMENT.
- CONTRACTOR IS TO INCLUDE ALL REQUIRED PREMIUM TIME IN BASE BID INCLUDE ALL TIME ESCALATION COSTS REQUIRED TO COMPLETE THE WORK.
- PROVIDE FOR SAFETY AND PROTECTION OF CONTRACTOR'S OWN WORK, INCLUDING THE COVERING OF ANY HOLES, SHAFT OPENINGS, ETC., SO AS TO AVOID ANY UNNECESSARY SAFETY HAZARDS AS REQUIRED AND OUTLINED BY OSHA AND ALL APPLICABLE REGULATIONS.
- PROVIDE DUST AND NOISE PROTECTION OF ADJOINING NON-CONSTRUCTION AREAS. PROPERLY PROTECT ALL FLOORS, ROOFS AND THE LIKE.
- MECHANICAL EQUIPMENT & APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE LABELED EQUIPMENT. CONNECTIONS TO THE MECHANICAL EQUIPMENT AND APPLIANCES, SUCH AS FUEL SUPPLY, CHIMNEY & DUCTS, SHALL CONFORM TO THE REQUIREMENTS OF THESE DOCUMENTS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOBSITE AT ALL TIMES FOR INSPECTION.
- THE DRAWINGS, SCHEDULES, & SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH TYPES OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL & MECHANICAL DESIGN. SUBSTITUTIONS FOR PRODUCTS WILL ONLY BE CONSIDERED IF SUBMITTED ONLY FOR PRODUCTS EQUAL OR BETTER THAN THAT SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION & MAINTENANCE ON THE EQUIPMENT.
- THE MECHANICAL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL DESIGN DRAWINGS BASED ON THE ELECTRICAL CHARACTERISTICS OF THE EQUIPMENT SPECIFIED. ALL CHANGES AND/OR MODIFICATIONS TO THE ELECTRICAL DESIGN AND INSTALLATION EXPENSE, DUE TO SUBSTITUTIONS OF EQUIPMENT (I.E. AMPERAGE INCREASE) WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT THEY SUBMIT FOR REVIEW MEETS THE CAPACITY AND DUTY SPECIFIED.
- WHEN EQUIPMENT IS SUBMITTED FOR REVIEW AND DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED & SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT, OR ENGINEER TO MAKE CHANGE WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE & FUNCTION AS INTENDED.
- COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW.
- COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

HVAC NOTES :

- FIBERGLASS DUCT IS NOT PERMISSIBLE.
- ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS AND DO NOT INCLUDE ALLOWANCES FOR DUCT LINER THICKNESS.
- PROVIDE DUCT OFFSETS OVER OR UNDER PIPING OR OBSTRUCTIONS AS REQUIRED. WHERE DUCT OFFSETS ARE REQUIRED, USE 45° SMOOTH RADIUS ELBOWS OR MITERED ELBOWS WITH TURNING VANES WHERE SPACE IS RESTRICTED.
- ALL SUPPLY DUCTS LARGER THAN 10" ON EITHER SIDE WITH RECTANGULAR ELBOWS SHALL HAVE TURNING VANES.
- MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH AND GRADUAL. SQUARE TO ROUND TRANSITIONS, SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
- PROVIDE FLEX DUCT CONNECTORS AT DUCT CONNECTIONS TO UNITS HOUSING ROTATING EQUIPMENT.
- FOR RECTANGULAR DUCT, ALL TAKEOFFS FROM THE MAIN SHALL BE 45 TAP COLLARS (OR BOOT).
- DUCT RUNOUTS TO DIFFUSERS OR GRILLES ARE THE SAME SIZE AS NECK UNLESS NOTED OTHERWISE (UON).
- SEE THE REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF DIFFUSERS AND GRILLES WITH RESPECT TO THE LIGHTING LAYOUT.
- FLEXIBLE DUCT RUNOUTS TO ALL DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. THE LENGTH OF FLEXIBLE RUNOUTS TO AIR REGISTERS SHALL NOT EXCEED 5 FEET. SUPPORT FLEXIBLE DUCTS IN ACCORDANCE WITH THE SMACNA STANDARD. (FIG 3-10 AND 3-11).
- PROVIDE ACCESS DOORS IN ALL PLENUMS AND DUCTS AT EACH AIR HANDLING UNIT.
- PROVIDE ACCESS PANELS TO ANY EQUIPMENT REQUIRING ADJUSTMENT OR MAINTENANCE THAT IS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
- PROVIDE A ACCESS DOOR IN DUCTWORK AT EACH A FIRE DAMPER TO ENSURE EASY ACCESS. BY FACILITIES MAINTENANCE AND LOCAL AUTHORITY APPROVAL. FOR MAINTENANCE INSPECTION AND RESETTIN. IN DUCT 10" x 10" (100 SQ. INS.) AND SMALLER PROVIDE A 12" LONG FLANGED AND GASKETED SECTION OF DUCT ADJACENT TO THE FIRE DAMPER.
- PROVIDE A DESCRIPTION OF EVERY ACCESS PANEL TO INDICATE ITS FUNCTION. DESCRIPTION SHALL BE STENCILED WITH MIN. 1/2" HIGH LETTERS.
- REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR EXACT LOUVER LOCATIONS. REFER TO THE MECHANICAL SCHEDULE FOR SIZES.
- THE METHOD OF FIXING THE UPPER ATTACHMENTS FOR PIPE AND DUCT SUPPORTS SHALL BE TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. DUCT SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD-METAL AND FLEXIBLE. FLEXIBLE AND OTHER FACTORY-MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS IN METALLIC AND NONMETALLIC DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE AND NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
 - JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK INCLUDING CONNECTIONS TO FLANGES SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES.
 - MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL181B AND SHALL BE MARKED "181B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC.
- MECHANICAL EXHAUSTS SHALL DISCHARGE TO THE OUTDOORS.
- ALL ENVIRONMENTAL AIR EXHAUST TERMINATION POINTS SHALL BE MINIMUM 3 FEET FROM THE OPERABLE OPENINGS OF THE BUILDING.
- DUE TO EXTREMELY LIMITED CLEARANCES BETWEEN CEILINGS AND STRUCTURE, FIELD COORDINATION BETWEEN TRADES IS CRITICAL. MECHANICAL CONTRACTOR MAY NEED TO ADJUST DUCT ELEVATIONS AND SIZES TO SUITE CONDITIONS. CHANGES TO DUCT SIZES ARE ALLOWED BASED ON THE FOLLOWING: AREA OF DUCT MUST BE MAINTAINED TO SIZE SHOWN; MINIMUM DUCT SIZE IS 6" INSIDE. CONTRACTOR SHALL KEEP ACCURATE DOCUMENTATION OF ADJUSTMENTS AND PROVIDE AS BUILT DRAWINGS.
- ALL OUTDOOR AIR, RETURN AIR AND EXHAUST AIR MOTORIZED DAMPERS SHALL HAVE AND A MANUALLY OPERATED OPPOSED BLADE TYPE BALANCING DAMPER INSTALLED ADJACENT TO EACH.
- PROVIDE SPRING OR NEOPRENE TYPE VIBRATION ISOLATOR HANGERS FOR ALL SUSPENDED AIR MOVING EQUIPMENT. ISOLATORS SHALL BE SELECTED AND SIZED FOR THE DUTY BY THE INSTALLATION CONTRACTOR.

MECHANICAL SHEET INDEX

SHEET NO.	SHEET NAME	SCALE
M0.1	MECHANICAL LEGEND ABBREVIATIONS AND NOTES	N.T.S.
M0.2	MECHANICAL SPECIFICATIONS	N.T.S.
M1.0	MECHANICAL FLOOR PLAN	1/4" = 1'-0"
M2.0	MECHANICAL DETAILS	N.T.S.
M3.0	MECHANICAL SCHEDULES	N.T.S.

APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2021 INTERNATIONAL PLUMBING CODE (IPC)
- 2020 NATIONAL ELECTRICAL CODE (NEC)
- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)

PROJECT FOR:

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

SEAL & SIGN:



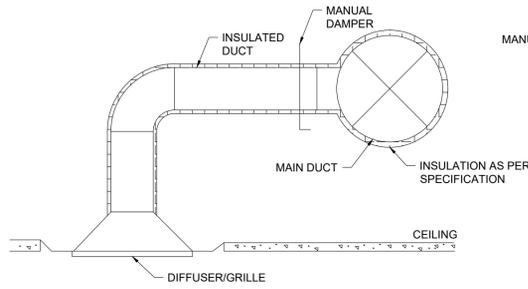
NO.	ISSUE/REVISION	DATE
0	ISSUED FOR PERMIT	09/05/2024

SHEET NAME:

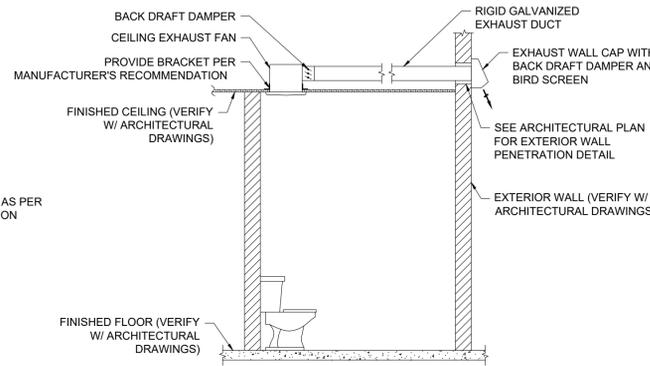
**MECHANICAL LEGEND
ABBREVIATIONS AND
NOTES**

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

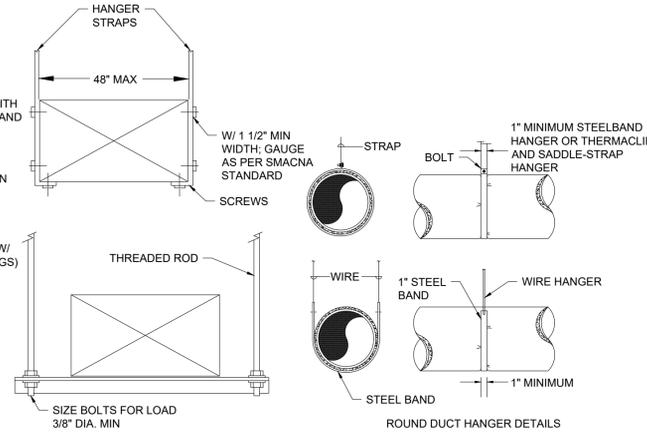
M0.1



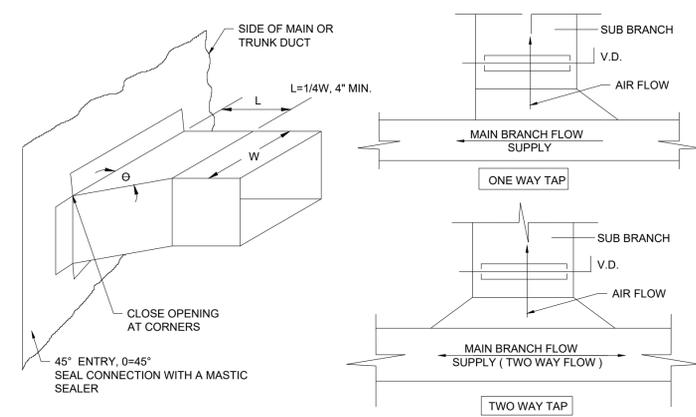
4 CEILING DIFFUSER BRANCH DUCT DETAIL
SCALE: N.T.S.



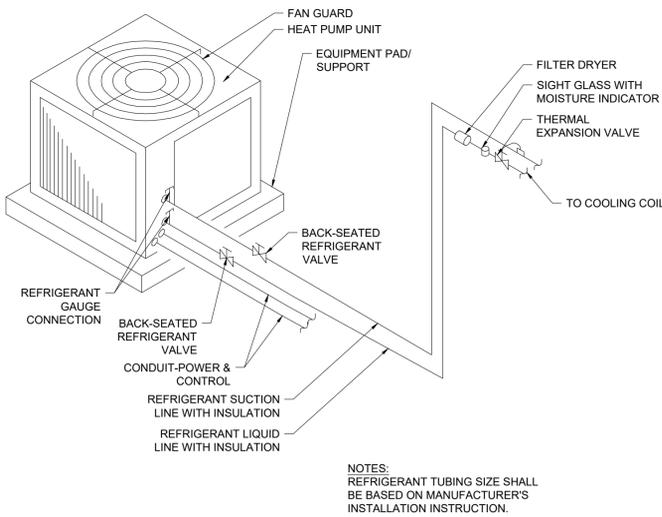
3 TOILET EXHAUST FAN DETAIL
SCALE: N.T.S.



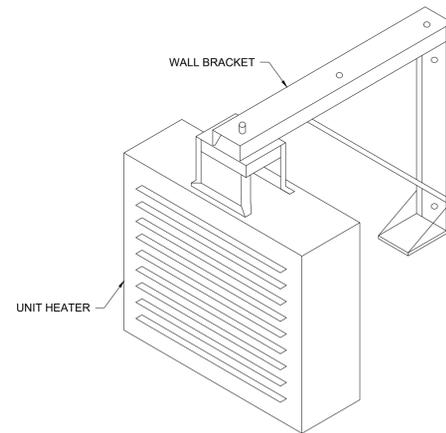
2 HANGER SUPPORT DETAIL
SCALE: N.T.S.



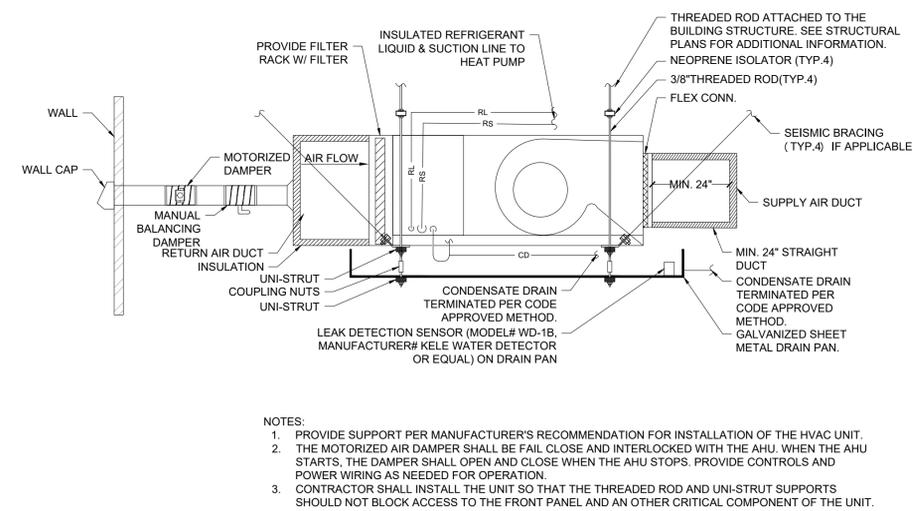
1 TYPICAL BRANCH CONNECTION DETAILS
SCALE: N.T.S.



7 HEAT PUMP INSTALLATION DETAIL
SCALE: N.T.S.



6 ELECTRIC UNIT HEATER INSTALLATION DETAIL
SCALE: N.T.S.



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

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

SEAL & SIGN:

Sushil Kumar
EXP: 03/31/2025

NO.	ISSUE/REVISION	DATE
0	ISSUED FOR PERMIT	09/05/2024

SHEET NAME:
**MECHANICAL
DETAILS**

DRAWN BY: V.R.
CHECKED BY: S.P.
DATE: 09/05/2024
SCALE: N.T.S.
M2.0

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:
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.
2. THE RETURN AIR FILTER KIT SHALL BE PROVIDED.
3. UNIT SHALL BE SUPPLIED WITH THE ACCESSORIES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
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.	REFRIGERANT	SEER	HSPF	RATED COOLING CAPACITY (MBH)	RATED HEATING CAPACITY (MBH)	ENTERING AIR DB (°F)	REFRIGERANT LINE (IN.)		COMPRESSOR DATA			CONDENSER 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:
1. COORDINATE WITH THE STRUCTURE FOR THE EXACT LOCATION BEFORE INSTALLING THE UNIT ON THE ROOF/GRADE.
2. ELECTRICAL WORK MUST BE PERFORMED IN ACCORDANCE WITH RELEVANT LOCAL AND NATIONAL REGULATIONS AND WITH INSTRUCTIONS IN THE INSTALLATION MANUAL.
3. UNIT & ITS INSULATED REFRIGERANT 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 ₂	REQUIRED OUTSIDE AIR EXHAUST							ACTUAL ROOM VENTILATION				EQUIPMENT		
						CFM/PERSON R _p	CFM/SQ.FT. R _a	TOTAL O.A. V _{oz}	ZONE AIR DISTRIBUTION EFFECTIVENESS E _z	ZONE OUTDOOR AIRFLOW V _{oz}	EXHAUST RATE (CFM/SQ.FT.)	TOTAL EXHAUST CFM	TOTAL	% O.A.	TOTAL O.A.	EXHAUST CFM			
																		0.0	0.06
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		
3	2_OFFICE AREA	OFFICE SPACES	365	5	4	5.0	0.06	42	0.8	52	-	-	485	20	97	-	AHU-1, CEF-1		
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:
1.) COORDINATED WITH TABLE 6.2.2.1 (ASHRAE & IMC 2021)

INLINE EXHAUST FAN SCHEDULE										
TAG	QTY.	TYPE	FAN DATA		ELECTRICAL DATA		DIMENSION (IN.) (W X D X H)	WEIGHT (LBS)	MODEL	BASIS OF DESIGN
			AIR FLOW (CFM)	E.S.P. (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:
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. 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.) (W X D X H)	WEIGHT (LBS)	MODEL	BASIS OF DESIGN	
			AIR FLOW (CFM)	E.S.P. (IN W.C.)	POWER (WATTS)	AMPS					V/Ph/Hz
CEF-1	1	CEILING 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 ₂
QTY OF MONITOR	1
CALIBRATION	0-200 ppm CO/ 0-10 ppm NO ₂
SUPPLY VOLTAGE	20A, 120-220 VAC, 60 Hz
COVERAGE AREA	7800 SQ.FT
GAS SENSOR	
MODEL NUMBER	TOX-EC-CO/NO2
DETECTABLE GASES	CO & NO ₂
SENSOR TYPE	ELECTRO-CHEMICAL
QTY OF SENSOR	1
SENSOR LOCATION	WALL MOUNTED
RANGE	0-200 ppm CO/ 0-10 ppm NO ₂
STANDARD TRIP POINTS	1 PPM CO, 0.1 PPM NO ₂
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:
1. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE DISCONNECT SWITCH AND THERMOSTAT.

LOUVER SCHEDULE													
TAG	QTY.	APPLICATION	TYPE	AIR FLOW	PRESSURE DROP	DIMENSIONS (IN.)		MIN FREE AREA	FREE AREA	ACTUATOR DATA		MODEL	BASIS OF DESIGN
				(CFM)	(IN. W.C.)	WIDTH	HEIGHT	(SQ. FT.)	VELOCITY (FPM)	POWER	MODEL		
WL-1	1	INTAKE	COMBINATION LOUVER & DAMPER	1910	0.025	48"	40"	4.16	456	24 VAC	AFBUP	EACC-401	GREENHECK

NOTES:
1. CUSTOM FINISH AND COLOR AS SELECTED BY ARCHITECT/OOWNER.
2. LOUVER AND DAMPER FRAME SHALL BE MADE OF MIN. 0.125" THICK EXTRUDED ALUMINUM SECTION.
3. DAMPER BLADES SHALL HAVE A DRAINABLE DESIGN & POSITIONED AT 45° ANGLE TO PREVENT WATER LEAKAGE.
4. LOUVER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
5. DAMPER SHALL HAVE A TIGHT SEAL FOR PREVENTING AIRFLOW IN THE CLOSED POSITION.
6. LOUVER SHALL BE SUPPLIED WITH AN INSECT SCREEN MADE OUT OF STAINLESS STEEL.
7. MECHANICAL CONTRACTOR SHALL PROVIDE THE INTERLOCKING ARRANGEMENT WITH THE EXHAUST FAN STARTER FOR THE ACTUATOR CONTROL.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PROVISION TO OPERATE THE DAMPER ACTUATOR MOTOR.

AIR DEVICE SCHEDULE									
TYPE	SERVICE	NECK SIZE	PANEL/FACE SIZE	MATERIAL	DESCRIPTION	MODEL NO.	BASIS OF DESIGN	NOTES	REFERENCE IMAGE
									EXAMPLE S-150-A 8"Ø
A	SUPPLY	10" X 6" 6" X 6"	11 3/4" X 7 3/4" 7 3/4" X 7 3/4"	STEEL	3/4" BLADE SPACING, SINGLE DEFLECTION GRILLE	301FL	TITUS	1,2,3,4	
B	RETURN	12" X 12" 10" X 6"	13 3/4" X 13 3/4" 11 3/4" X 7 3/4"	STEEL	3/4" BLADE SPACING	350RL	TITUS	1,2,3,4	

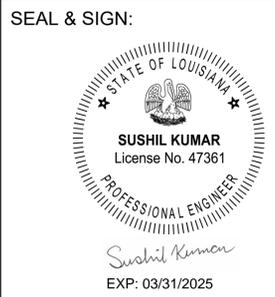
NOTES:
1. FINISH & COLOR AS SELECTED BY THE ARCHITECT / OWNER.
2. PROVIDE A BALANCING DAMPER OPERABLE FROM BELOW THE CEILING.
3. PROVIDE FOAM GASKET SEAL & INSULATED PLENUM/BACK PAN.
4. THE ARCHITECT/OOWNER SHALL SELECT THE DIFFUSER/GRILLE BASED ON THE DRYWALL CEILING.

WALL EXHAUST FAN SCHEDULE										
TAG	QTY.	DRIVE TYPE	FAN DATA		ELECTRICAL DATA		DIMENSION (IN.) (H X DIA.)	WEIGHT (LBS)	MODEL	BASIS OF DESIGN
			AIR FLOW (CFM)	E.S.P. (IN W.G.)	MOTOR HP	V/Ph/Hz				
WEF-1	1	BELT DRIVE CENTRIFUGAL	1910	0.34	1/3	115/1/60	32" X 29"Ø	71	CUBE-160	GREENHECK

NOTES:
1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
3. PROVIDE BACKDRAFT DAMPER, BIRD SCREEN PROTECTION.

PROJECT FOR:

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



0	ISSUED FOR PERMIT	09/05/2024
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	
	ABOVE COUNTER QUADPLEX RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GFI ABOVE COUNTER QUADPLEX RECEPTACLE
	GFI ABOVE COUNTER DUPLEX RECEPTACLE
	GFI QUADPLEX RECEPTACLE
	GFI DUPLEX RECEPTACLE
	WEATHER PROOF/GFI DUPLEX RECEPTACLE
	FLOOR DUPLEX RECEPTACLE
	GFI FLOOR DUPLEX RECEPTACLE
	PANELBOARD
	HARD WIRE CONNECTION (WALL, CEILING/FLOOR MOUNTED)
	SURGE PROTECTION DEVICE
	DIRECT EQUIPMENT CONNECTION WITH THERMAL RATED DISCONNECT SWITCH

FIRE ALARM	
	FIRE ALARM AUDIBLE / VISUAL ANNUNCIATION DEVICE
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM CARBON MONOXIDE DETECTOR(WALL)
	FIRE ALARM SYSTEM SMOKE DETECTOR W/SOUNDER BASE
	FIRE ALARM DETECTOR / CO SENSOR - STAND ALONE
	FIRE ALARM SYSTEM SMOKE / CARBON MONOXIDE DETECTOR W/SOUNDER BASE
	FIRE ALARM CARBON MONOXIDE DETECTOR

ELECTRICAL ABBREVIATIONS	
ACP	ACCESS CONTROL PANEL
ADR	AREA OF RESCUE
AFF	ABOVE FINISHED FLOOR
BOH	BACK OF HOUSE
C	CEILING MOUNTED
CL	CENTER LINE
CKT	CIRCUIT
D	DEDICATED
DP	DISTRIBUTION PANEL
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EX	EXISTING
ETR	EXISTING TO REMAIN
ER	EXISTING, RELOCATED
FAC	FIRE ALARM CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HD	HAND DRYER
LVC	LOW VOLTAGE CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MC	MECHANICAL CONTRACTOR
MT	MOUNT
NL	NIGHT LIGHT
PC	PLUMBING CONTRACTOR
PL	PILOT LIGHT
SM	SURFACE MOUNT
TC	TIMECLOCK
TGB	TELECOMMUNICATIONS GROUND BUS
TTC	TELEPHONE TERMINAL CABINET
W	WALL MOUNT AT 48" A.F.F.
WP	WEATHERPROOF

MISCELLANEOUS	
	JUNCTION BOX - CEILING/WALL MOUNTED
	METER
	FUSED SWITCH
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION STARTER DISCONNECT SWITCH W/H.O.A.

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

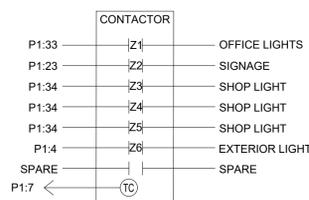
ELECTRICAL SHEET INDEX		
SHEET NO.	SHEET NAME	SCALE
E0.0	ELECTRICAL COVER SHEET	N.T.S.
E1.0	LIGHTING PLAN	1/4" = 1'-0"
E2.0	POWER & FIRE ALARM PLAN	1/4" = 1'-0"
E3.0	ELECTRICAL SCHEDULE	N.T.S.

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)

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

ANNOTATION	
	KEY NOTE TAG
	REVISION NOTE TAG

LINE WEIGHT LEGEND	
	NEW
	EXISTING



2 TIME CLOCK DIAGRAM 'TC'

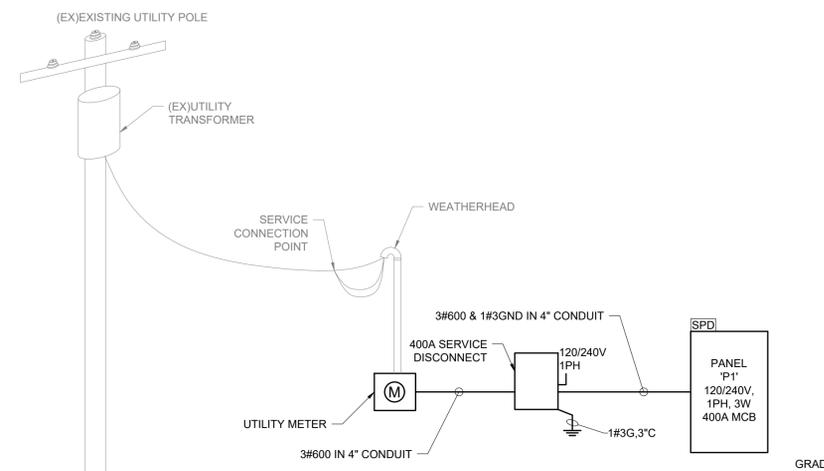
SCALE: N.T.S.

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:



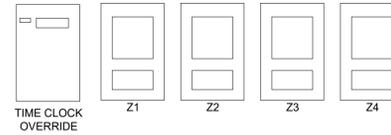
NO.	ISSUE/REVISION	DATE
0	ISSUED FOR PERMIT	09/05/2024

SHEET NAME:

**ELECTRICAL
COVER SHEET**

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

E0.0

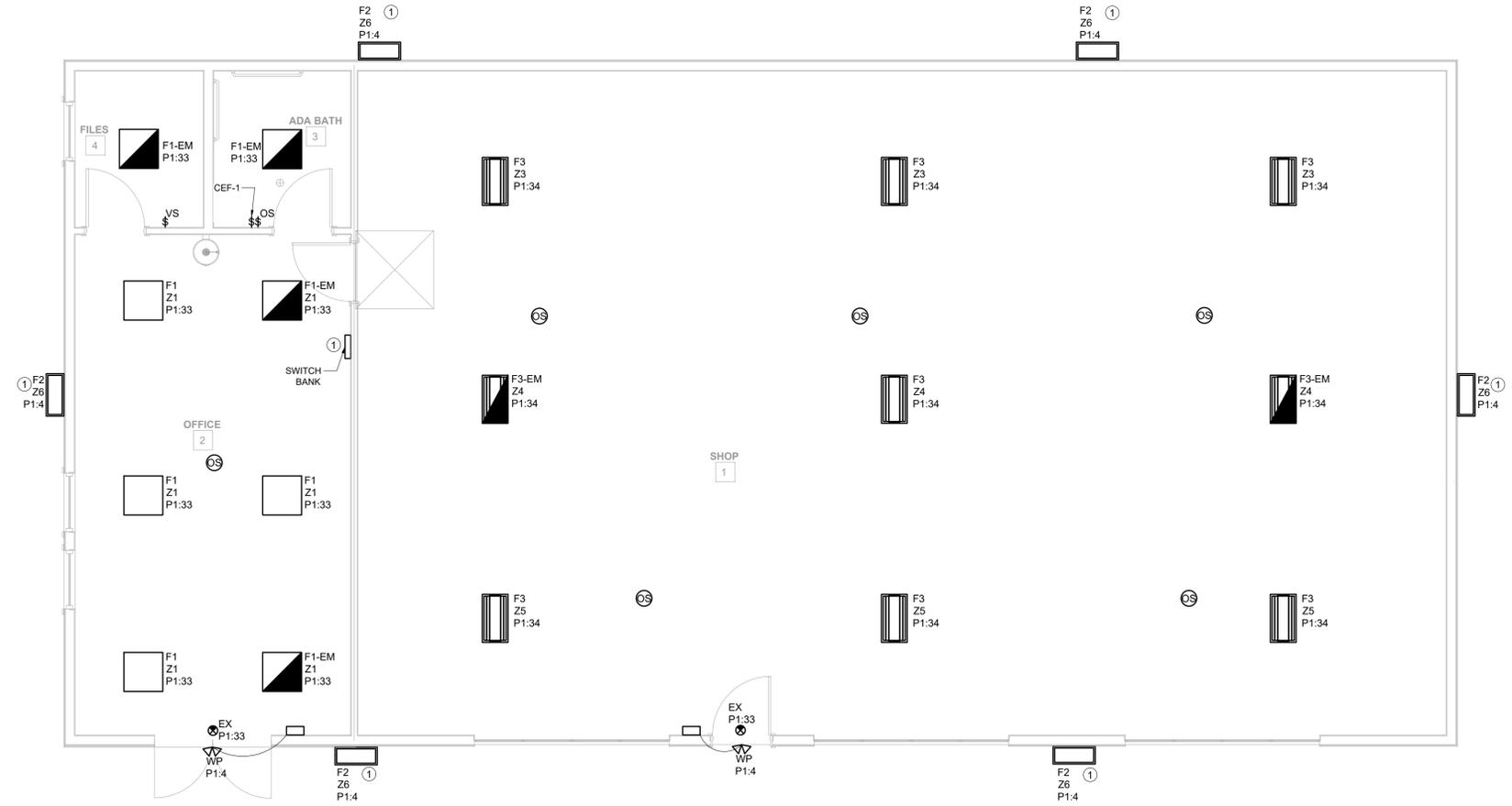


2 SWITCH BANK A

SCALE: N.T.S.

- SWITCH BANK GENERAL NOTES:**
1. EC SHALL VERIFY CONFIGURATION REQUIRED WITH SPACE AVAILABLE.
 2. PROVIDE LABELS AS DIRECTED BY OWNER.
 3. SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48" AFF.
 4. 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**
1. 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.
 2. 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.
 3. 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.
 4. PROVIDE A DEDICATED NEUTRAL TO EACH CIRCUIT.
 5. 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.
 6. ALL EGRESS LIGHTS SHALL BE PROVIDED WITH DUAL LAMPS.
 7. 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.
 8. ROUTING OF ALL FIXTURE WIRING SHALL BE CONCEALED AND RUN IN A NEAT AND WORKMANLIKE MANNER.
- ⊗ LIGHTING KEY NOTE**
1. EC SHALL COORDINATE EXACT LOCATION AND/ OR MOUNTING HEIGHT OF LIGHT WITH ARCHITECT/ OWNER.



NORTH
 1 LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

PROJECT FOR:

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

SEAL & SIGN:

Sushil Kumar
 EXP: 03/31/2025

0	ISSUED FOR PERMIT	09/05/2024
NO.	ISSUE/REVISION	DATE

SHEET NAME:

LIGHTING PLAN

DRAWN BY: N.K.	E1.0
CHECKED BY: A.Y.	
DATE: 09/05/2024	
SCALE: 1/4" = 1'-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:

AREA							
COMMON SPACE LIGHTING LOAD 220.12							
COMMON AREA	2,504	X	100%	X	1.7	WATTS / SF	4,257 WATTS
LIGHTING DEMAND LOAD NEC 220.42							
CALCULATED LOAD	4,257	X	100%				4,257 WATTS
GENERAL RECEPTACLE LOAD							
TOTAL AREA	4,758	X	100%	X	1	WATTS / SF	4,758 WATTS
GENERAL RECEPTACLE DEMAND DEMAND LOAD							
FIRST 10KVA AT 100%	4,758	X	100%				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		75%	WATTS	2,700 WATTS
ALIGNMENT LIFT	1	X	1800		75%	WATTS	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 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 CPX 2X2 4000LM 80CRI MVOLT E7W/2X2 SMKSH
F2	FACADE EXTERIOR LIGHT	1	LED	-	7.8	120	WALL/SURFACE	LITHONIA LIGHTING 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	EXT SIGN	1	LED	-	3	120	WALL/SURFACE	LITHONIA LIGHTING 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 CLR2-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

ITEM	DISCONNECT TYPE & RATING			STARTER				NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
	FUSED	NON-FUSED	CIRCUIT BREAKER	VOLTAGE	POLES	NEMA SIZE	TYPE			
DS-30		30		240	2			1		SQUARE D EATON TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-30R		30		240	2			3R		SQUARE D EATON TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF

TAG	LOAD	P1	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
TIRE CHANGER	EQ	1500		900	20	11	12	20	1500	900	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		25	19	20	25		2400	HW	WH-1, NOTE 5
	HW	2400				21	22		2400		HW	
SIGNAGE	EQ		1200		20	23	24	20		1575	H	HP-1
ELH-1, NOTE 5	H	5000			60	25	26	60		1575	H	
	H		5000			27	28		5000		H	ELH-1, NOTE 5
AHU-1	H	2957			30	29	30	60	5000		H	
	H		2957			31	32	20	830		EQ	WEF-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					
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	AMCB				AND:						
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:



0 ISSUED FOR PERMIT 09/05/2024

NO. ISSUE/REVISION DATE

SHEET NAME:

ELECTRICAL SCHEDULES

DRAWN BY: N.K.

CHECKED BY: A.Y.

DATE: 09/05/2024

SCALE: N.T.S

E3.0



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
 Owner/Agent: PONCHATOULA, Louisiana 70454
 Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed 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 Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-OFFICE (Common Space Types:Office - Enclosed) LED: F1: 2'X2' PANEL LIGHT: Other:	1	8	19	154
2-SHOP (Common Space Types:Workshop) 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
 Owner/Agent: PONCHATOULA, Louisiana 70454
 Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (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 Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (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

Sushil Kumar
 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] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR4] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.0, E3.0
C103.2 [PR8] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.0, E2.0,E3.0
C406 [PR9] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <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)
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.13.2 , C403.13.3 [FO9] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <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)
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) ≥ 1.00 . Variable volume fans will have an FEI ≥ 0.95 .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.4 [ME142] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.6 [ME143] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.9 [ME144] ²	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.3 [ME55] ²	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Mechanical Systems list for values.</i>
C403.2.2 [ME59] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft ² and >15 people/1000 ft ² 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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.2 [ME115] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.6 [ME141] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: 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] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.5 [ME116] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.4.1.4 [ME63] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C408.2.2.1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.11.3, C403.11.3.1, C403.11.3.2 [ME123] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22] ¹	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 ≥ 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18] ¹	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 ≤ 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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.2 [EL19] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces ≥ 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas ≤ 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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.0,E3.0
C405.2.2, C405.2.2.1 [EL21] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <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] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.0,E3.0
C405.2.5 [EL27] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E1.0
C405.2.7 [EL28] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: E2.0
C405.7 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8 [EL27] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.10 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.1.1 [EL30] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11, C405.11.1 [EL31] ²	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <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)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C303.3, C408.2.5.3 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.1 [FI27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 [FI47] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.1 [FI42] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.2 [FI39] ³	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.2.1, C403.4.2.2 [FI40] ³	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.2.3 [FI41] ³	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 [FI11] ³	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.5.1 [FI19] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <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 [FI57] ¹	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 <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.1 [FI28] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1 [FI31] ¹	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.2 [FI10] ¹	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.4 [FI29] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [FI43] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.2 [FI30] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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