

PROJECT OWNER: GRAND BOULEVARD
PROJECT NAME: GRAND BOULEVARD OFFICE
PROJECT LOCATION: 585 GRAND BOULEVARD, SANDESTIN, FL 32500
PROJECT DESCRIPTION: TENANT INFILL; SPRINKLERED
TOTAL NEW SF: 2,530 GSF

PERMITTED UNDER 8TH EDITION FLORIDA BUILDING CODE (2023).
CONSTRUCTION TYPE: II-B UNPROTECTED, SPRINKLERED
USE GROUP: B OCCUPANCY

AREA CALCULATIONS:

BUSINESS (B OCCUPANCY): 2,530 SQ FT

OCCUPANT LOAD CALCULATION:
BUSINESS (B OCCUPANCY): 2,530 GSF/150G 17 OCCUPANTS
TOTAL: 17 OCCUPANTS

NUMBER OF EXITS REQUIRED:

EXIT REQ'D PER 1006.2.1, 2 PROVIDED

WIDTH OF EXIT(S) REQUIRED:

32" REQ'D, 32" CLEAR WIDTH PROVIDED AT 36" WIDE DOOR (PER EACH EXIT)

EXIT ACCESS DISTANCE: 300'-0" PER 1017.2

COMMON PATH OF TRAVEL: 100'0" PER 1006.2.1

LENGTH OF DEAD END CORRIDOR: 50'-0" PER 1020.5

OCCUPANCY	WATER CLOSETS	LAVATORIES	DF	SERVICE SINK
BUSINESS	1/25 1 REQ'D 4 PROVIDED (LOCATED IN BLDG. COMMON AREA)	1/40 1 REQ'D 4 PROVIDED (LOCATED IN BLDG. COMMON AREA)	1/1000 1 REQ'D 1 PROVIDED (LOCATED IN BLDG. COMMON AREA)	1 REQ'D 1 PROVIDED (LOCATED IN BLDG. COMMON AREA)

508.4 - 1-HOUR RATED REQ'D PER 508.4

803.11	WALL + CEILING FINISH REQ'D.
INTERIOR EXIT STAIRWAYS, RAMPS, AND EXIT PASSAGEWAYS	B: B
ENCLOSURE FOR EXIT ACCESS STAIRWAY AND RAMPS	B: C
ROOMS AND ENCLOSED SPACES	B: C

GENERAL INFORMATION:

G0.1	GENERAL INFORMATION
G0.2	LIFE SAFETY PLANS

ARCHITECTURAL:

AI.0 FLOOR PLAN

ARCHITECT: SOUTHERN LINES DESIGN, PLLC
90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FLORIDA 32459

MEP: JOHNSON PEADEN ENGINEERING INC.
221 HOLLYWOOD BLVD NE
FORT WALTON BEACH, FL 32548

(TABLE 601)
STRUCTURAL FRAME: 0-HOUR EXISTING
EXTERIOR BEARING WALL: 0-HOUR EXISTING
INTERIOR BEARING WALLS: 0-HOUR EXISTING
INTERIOR NONBEARING WALLS: 0-HOUR EXISTING
FLOOR & ROOF CEILING ASSEMBLY: 0-HOUR EXISTING
ROOF & ROOF/CEILING ASSEMBLY: 0-HOUR EXISTING

FIRE ALARM SHALL COMPLY WITH FBC SECTION 907
FIRE EXTINGUISHERS SHALL COMPLY WITH FBC SECTION 906

C.	CENTER LINE
C.	CENTER LINE
8	ROUND OR DIAMETER
A.C.	AND
A.F.F.	ACOUSTICAL CEILING TILE
ALUM.	ABOVE FINISHED FLOOR
BD.	ALUMINUM
BLK'G.	BOARD
BOT.	BLOCKING
BYND.	BOTTOM
C.J.	BEYOND
CLG.	CONTROL JOINT
CLSR.	CEILING
C.M.U.	CLOSER
C.O.	CONCRETE MASONRY UNIT
COL.	CASED OPENING
CONC.	COLUMN
CONT.	CONCRETE
CORR.	CONTINUOUS
CORR.	CORRIDOR
CPT.	CORRUGATED
C.T.	CARPET
DBL.	CERAMIC TILE
DEMO.	DOUBLE
DIA.	DEMOLITION
DN.	DIAMETER
DTL.	DOWN
EA.	DETAIL
E.I.F.S.	EACH
E.J.	EXTERIOR INSULATION FINISH SYSTEM
ELECT.	EXPANSION JOINT
ELEV.	ELECTRICAL
ELEV.	ELEVATION
ENLG'D.	ELEVATOR
EQUIP.	ENLARGED
	EQUIPMENT

E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXP.	EXPANSION
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.F.E.	FINISHED FLOOR ELEVATION
FIN.	FINISH
FLR.	FLOOR
FURRR'G.	FURRING
GA.	GAUGE
G.W.B.	GYPSUM WALL BOARD
GYP.	GYPSUM
HD	HAND DRYER
HM	HOLLOW METAL
HTS.	HEIGHTS
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
JT.	JOINT
LARCH.	LANDSCAPE ARCHITECT
LAV.	LAVATORY
LOW.	LOWER
LYRS.	LAYERS
MANUF.	MANUFACTURER
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MIN.	MINIMUM
MIN.	MINUTE
M.D. BIT.	MODIFIED BITUMEN
MOD.	MOISTURE RESISTANT
MTL.	METAL
MULL.	MULLION
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL

O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPEN'G.	OPENING
OPP.	OPPOSITE
O.S.C.I.	OWNER SUPPLIED CONTRACTOR INSTALLED
O.S.O.I.	OWNER SUPPLIED OWNER INSTALLED
PERF.	PERFORATED
PLUMB.	PLUMBING
PORC.	PORCELAIN
PRE-FIN.	PRE-FINISHED
PROG.	PROGRAMMING
P.T.	PORCELAIN TILE
PTD.	PAINTED
Q.T.	QUARRY TILE
REF.	REFER
REINF.	REINFORCING
REQ'D.	REQUIRED
REQ'MENTS	REQUIREMENTS
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
S.B.C.	STANDARD BUILDING CODE
SCHED.	SCHEDULE
ST.	STAIN / STAINED
S.T.C.	SOUND TRANSMISSION COEFFICIENT
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
TRTD.	TREATED
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.C.T.	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
V.W.C.	VINYL WALL COVERING
WD.	WOOD
WIN.	WINDOW
W.S.	WEATHER STRIPPING

CRITICAL DIMENSION OR NOTATION	
DOOR MARK	
FIXTURE TYPE	
PARTITION TYPE	
FIRE EXTINGUISHER KEY	
ROOM NAME/NO.	CONF 133
EXTERIOR ELEVATION KEYS	
INTERIOR ELEVATION KEYS	
BUILDING SECTION KEY	
WALL SECTION KEY	
ENLARGED PLAN / DETAIL KEY	
DETAIL SECTION KEY	

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS. CONTRACTORS MUST COMPLY WITH CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES. ALL REQUIRED CITY, COUNTY, STATE PERMITS SHALL BE ACQUIRED AND PAID FOR BY THE GENERAL CONTRACTOR OR BY THE TRADE SPECIFIC RESPONSIBLE SUBCONTRACTOR.
2. ALL CONSTRUCTION SETS ON SITE SHALL REFLECT THE SAME INFORMATION. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF PLANS ON SITE AT ALL TIMES. THIS SHALL INCLUDE ALL WORKING DRAWINGS (PLANS, SUPPLEMENTAL DRAWINGS, SPECIFICATIONS/DATA SHEETS, ADDENDA, REVISIONS), PROPOSED CHANGE ORDERS (PCO) AND CHANGE ORDERS.
3. DISCREPANCIES DISCOVERED BETWEEN PORTIONS OF CONTRACT DOCUMENTS ARE NOT INTENDED. CONTRACTOR TO CLARIFY DISCREPANCY WITH ARCHITECT BEFORE COMMENCING WORK.
4. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE. CONTRACTORS SHALL BEAR THE EXPENSE OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
6. ALL FRAMING, FASTENING AND ANCHORING SHALL BE AS PER APPLICABLE CODE.
7. CONTRACTOR SHALL ACCEPT ALL RESPONSIBILITY AND LIABILITY OF CONSTRUCTION METHODS AND PROPER OPERATION OF ALL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS.
8. ALL ENGINEERING DESIGN DRAWINGS AND SPECIFICATIONS BY FLORIDA REGISTERED PROFESSIONAL ENGINEER PROVIDED BY THE CONTRACTOR.
9. REC = FULLY RECESSED NO GLASS FIRE EXTINGUISHER CABINET. FURR-OUT PARTITION AS REQUIRED.
10. REFERENCE REFLECTED CEILING PLANS FOR ALL ELECTRICAL & DATA LOCATIONS. VERIFY LOCATION AND NUMBER WITH LOCAL CODE.
11. PROVIDE BLOCKING AT ALL WALL HUNG MILLWORK, FIXTURES, HANDRAILS, ETC.
12. MAINTAIN RATINGS AT ALL COLUMNS, FLOOR/CEILING, & CORRIDOR PARTITIONS.
13. DIMENSIONS INDICATED ARE TO FACE OF STUD OF NEW PARTITIONS OR FACE OF FINISH AT EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.
14. FACE OF GYPSUM BOARD CONSTRUCTION MEETING EXISTING CONSTRUCTION IN SAME PLANE SHALL BE FLUSH WITH NO DISCERNIBLE JOINT.
15. REPAIR OR REPLACE EXISTING FLOOR, CEILING AND WALL SERVICES DAMAGED DURING REMOVAL OF EXISTING FINISHES, AS REQUIRED, TO PREPARE SERVICES FOR NEW FINISHES.
16. VERIFY CLEARANCES AND ELECTRICAL/PLUMBING REQUIREMENTS FOR (O.S.C.I.) OWNER SUPPLIED, CONTRACTOR INSTALLED. (O.S.O.I.) OWNER SUPPLIED, OWNER INSTALLED.
17. ALL APPLIANCES O.S.C.I. UNLESS NOTED OTHERWISE.
18. ALL FURNITURE O.S.C.I. UNLESS NOTED OTHERWISE.
19. CONSULT DOOR AND WINDOW SUPPLIER FOR FRAMING OF ALL ROUGH OPENINGS.
20. ALL FRAMING, FASTENING AND ANCHORING SHALL BE AS PER APPLICABLE CODE.
21. THE CONTRACTOR SHALL ACCEPT ALL RESPONSIBILITY AND LIABILITY OF CONSTRUCTION METHODS AND PROPER OPERATION OF ALL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS.
22. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FLASHING, CAULKING AND OTHER AS REQUIRED TO ENSURE A WATERTIGHT, LEAK PROOF STRUCTURE.
23. GENERAL NOTES APPLY REGARDLESS OF WHETHER OR NOT THEY ARE KEYED ON EVERY SHEET OR TO A SPECIFIC DETAIL.
24. COMPLY WITH APPLICABLE ACCESSIBILITY CODES WHEN INSTALLING AND FRAMING OPENINGS FOR DOORS.
25. WORK INDICATED HEREIN, BUT NOT NOTED OR REFERENCED COMPLETELY, SHALL BE PERFORMED AT NO ADDITIONAL CHARGE TO THE OWNER/TENANT.
26. CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR TO MAKE THE WORK COMPLETE IN EVERY RESPECT AS SPECIFIED HEREIN, SHOWN ON DRAWINGS, OR REASONABLY IMPLIED TO COMPLETE THE CONSTRUCTION.
27. FIELD VERIFY DIMENSIONS THAT THE LAYOUT OF THE SPACE CAN BE ACCOMPLISHED AS DESIGNED. THE ARCHITECT SHALL BE NOTIFIED OF PROBLEMS WITH PROPOSED WALL LOCATION ONCE THE CHALK LINES ARE IN PLACE AND PRIOR TO FASTENING OF THE METAL TRACKS IN ORDER TO MAKE APPROPRIATE DECISIONS ON NECESSARY ADJUSTMENTS. ARCHITECT SHALL FIELD VERIFY AND APPROVE CHALK LINES.
28. COORDINATE EXACT POWER & DATA LOCATION W/ TV UNITS.
29. ALL ELECTRICAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION TO BE DESIGN/BUILD BY G.C.
30. REVIEW EXIT SIGNS AND FIRE EXTINGUISHER LOCATIONS WITH LOCAL FIRE MARSHAL. INSTALL DEVICES AND QUANTITIES OF DEVICES PER THEIR INSTRUCTIONS.
31. SQUARE FOOTAGES LISTED IN CONSTRUCTION DOCUMENTS REPRESENT CONSTRUCTION SQUARE FOOTAGES ONLY. ANY FUTURE, AS-BUILT, TENANT, OR OTHER SQUARE FOOTAGE CALCULATIONS TO BE VERIFIED BY OWNER AND NOT PART OF CONTRACT DOCUMENTS.

SOUTHERN
lines
DESIGN

90 WRM CIRCLE, UNIT 5

SANTA ROSA BEACH, FL 32459

850.270.8517
FL# ARI0003

project number: **26034**

REVISION SCHEDULE

REV. #	DESC.	DATE
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project name:

GRAND BOULEVARD
OFFICE

585 GRAND BOULEVAR
SANDESTIN, FL 32500

drawing name

GENERAL INFORMATION

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date:
09/21/2026

drawing phas

CONSTRUCTION
DOCUMENTS

drawing number:

GO.1

project number: **26034**

REVISION SCHEDULE		
REV. #	DESC.	DATE

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
LIFE SAFETY PLANS

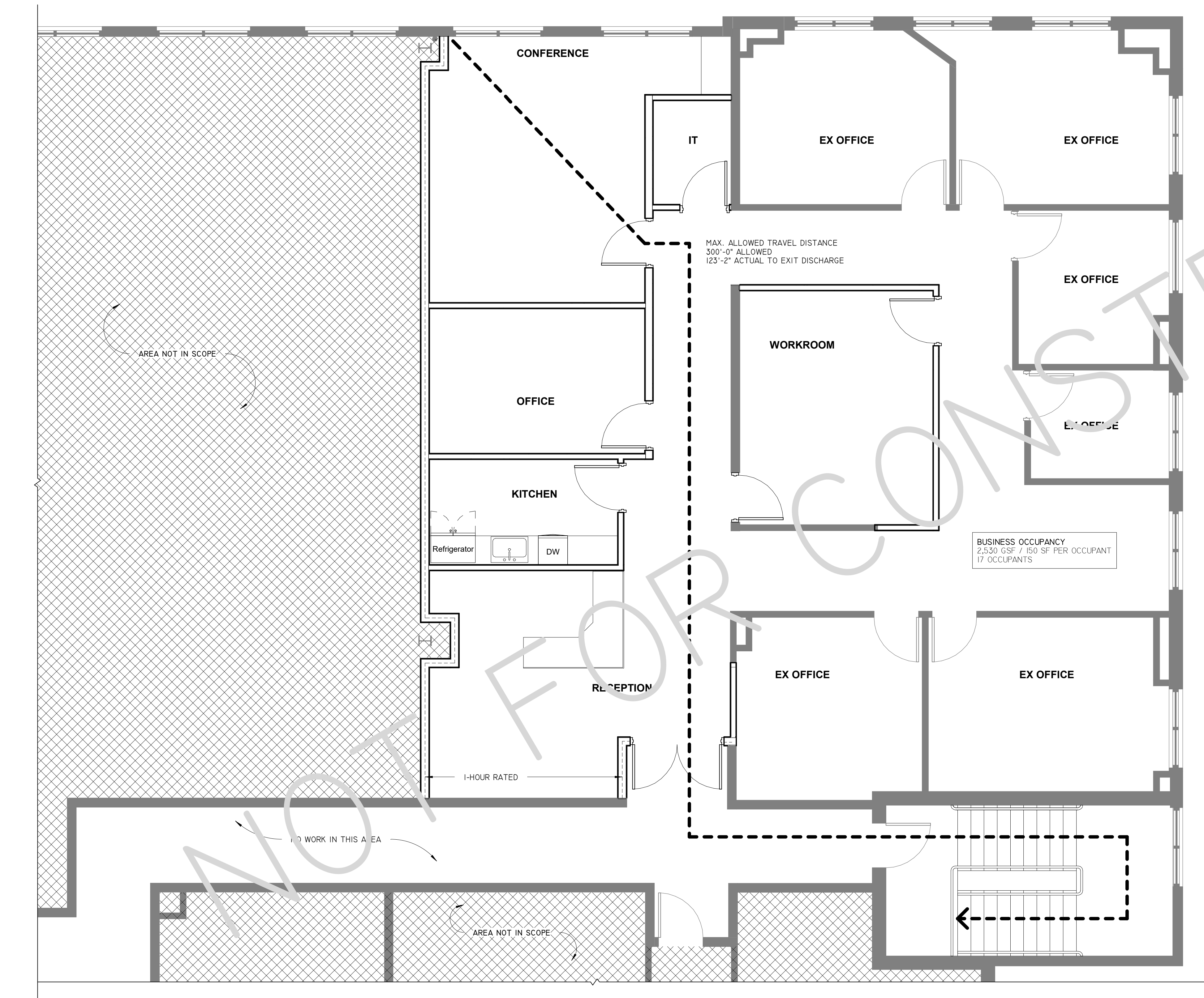
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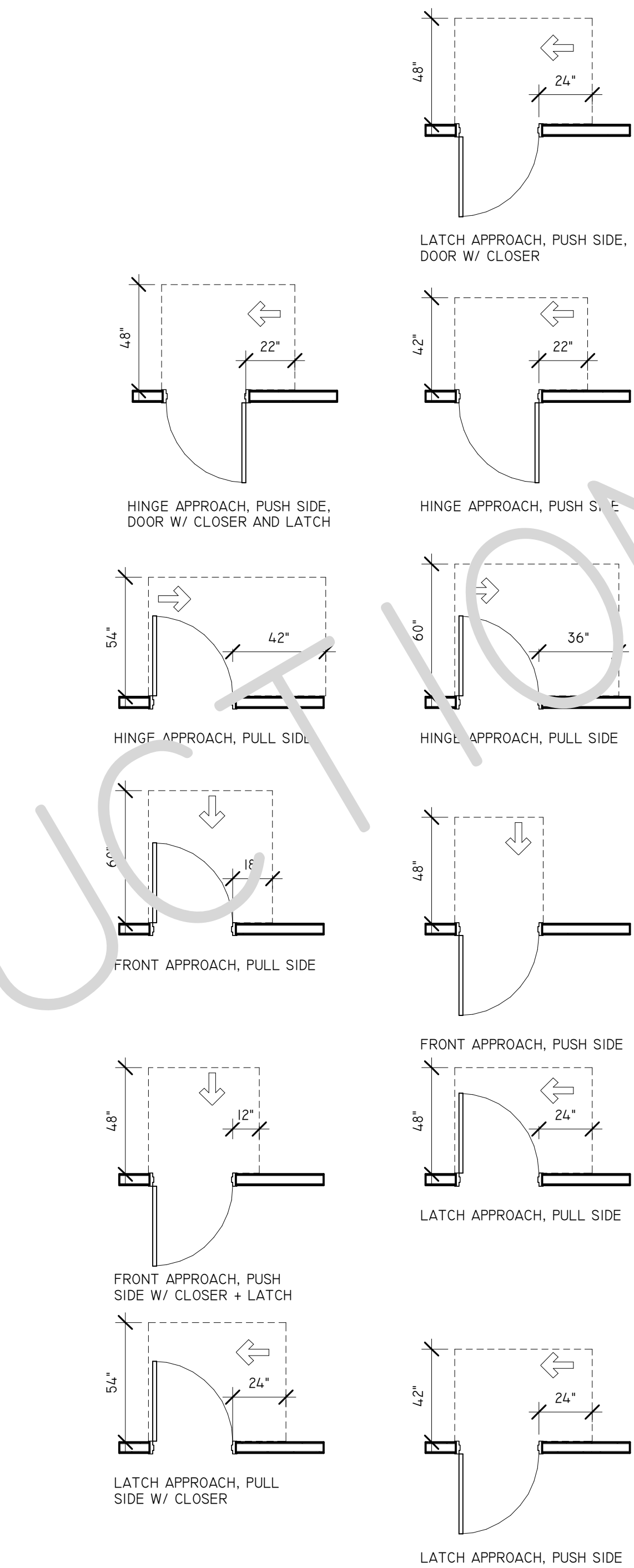
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CONSTRUCTION
DOCUMENTS

drawing number:

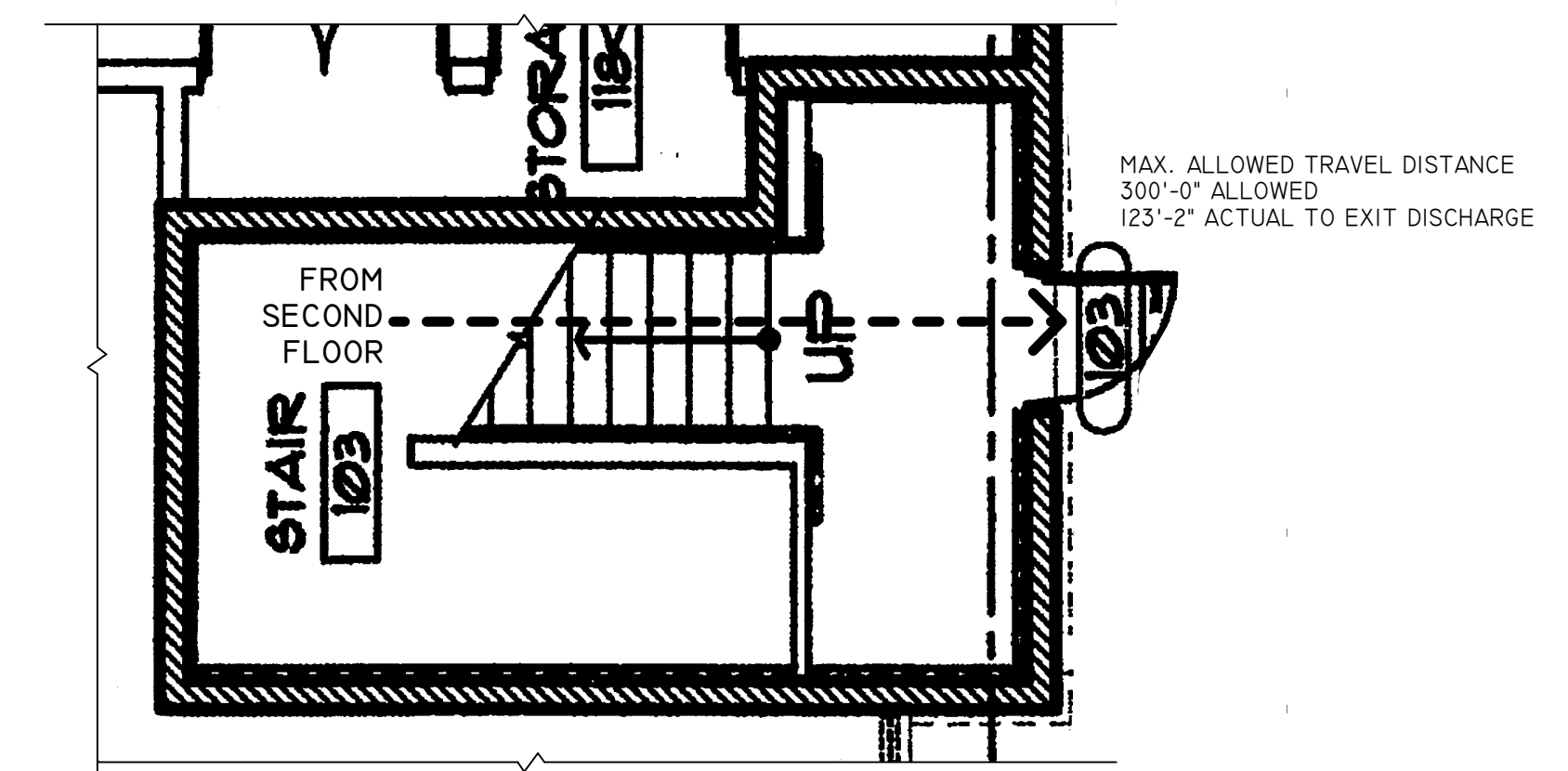
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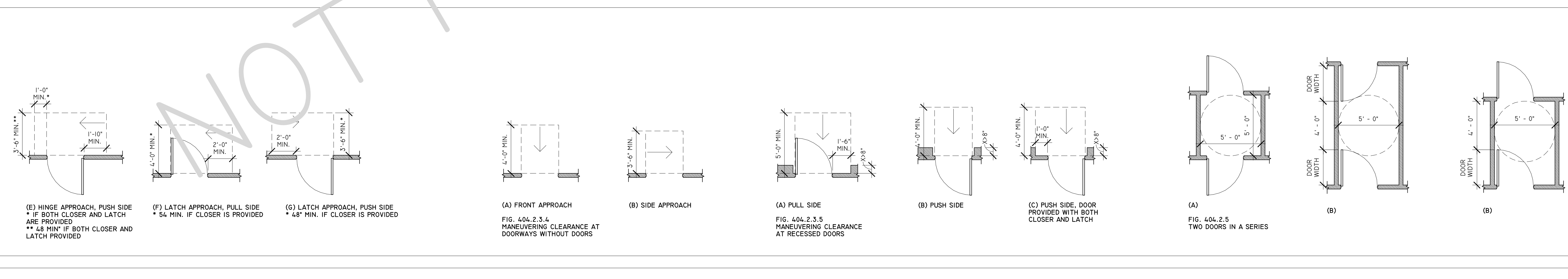
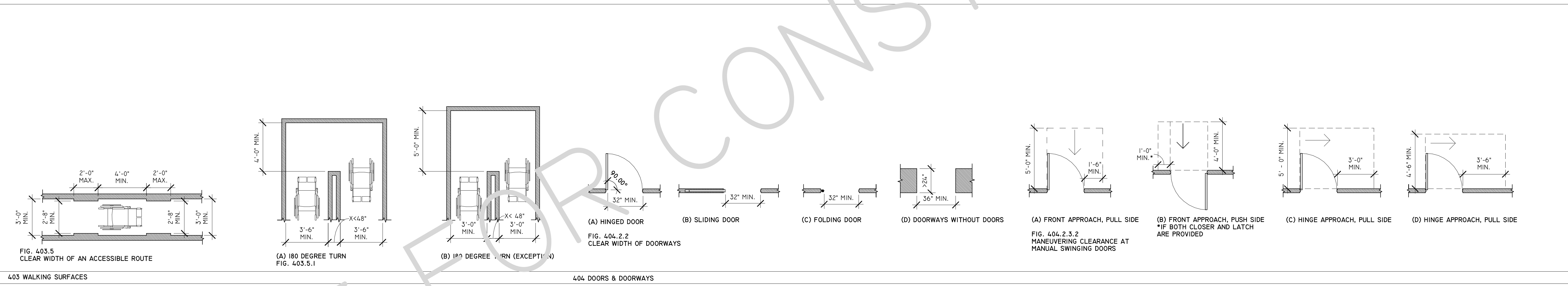
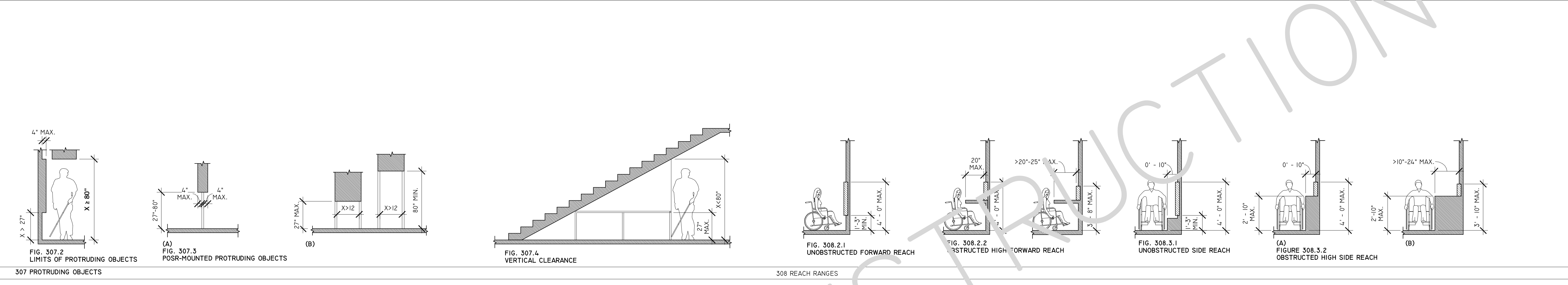
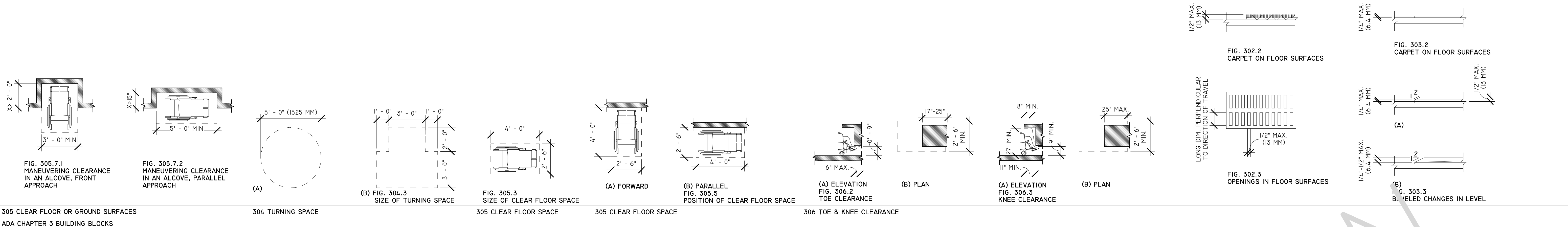
A1 LEVEL 2 - LIFE SAFETY PLAN
1/4" = 1'-0"



B1 DOOR CLEARANCE REQUIREMENTS
1/4" = 1'-0"



A2 LEVEL 1 - LIFE SAFETY PLAN
1/4" = 1'-0"



project number: **26034**

REVISION SCHEDULE		
REV. #	DESC.	DATE

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
ADA ACCESSIBILITY
REQUIREMENTS

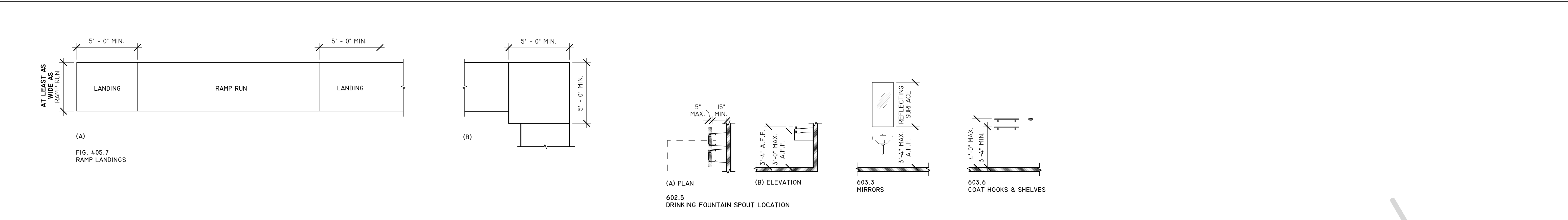
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drawing phase:
CONSTRUCTION
DOCUMENTS

drawing number:

G0.3



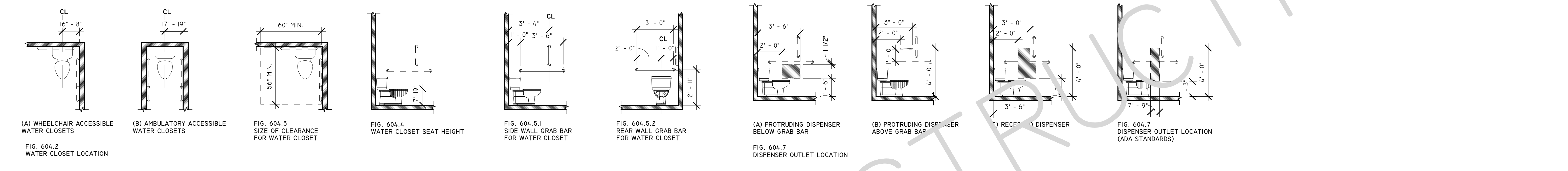
405 RAMPS
CHAPTER 4 ACCESSIBLE ROUTES

602 DRINKING FOUNTAINS
CHAPTER 6 PLUMBING ELEMENTS & FACILITIES

603 TOILET & BATHING ROOMS

project number: **26034**

REVISION SCHEDULE		
REV. #	DESC.	DATE



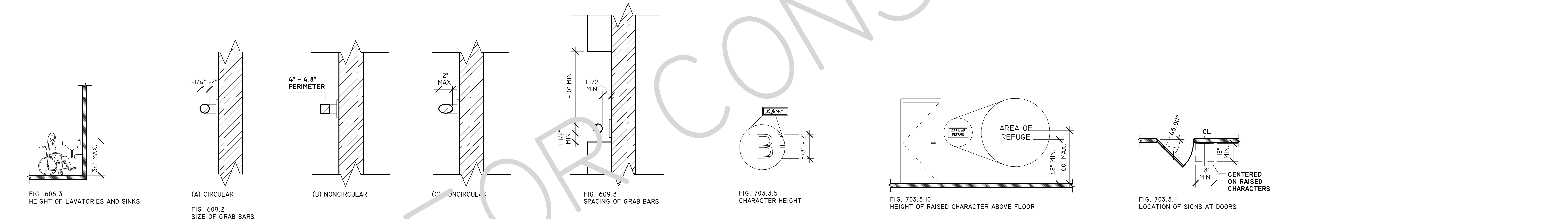
604 WATER CLOSETS & TOILET COMPARTMENTS

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
ADA ACCESSIBILITY
REQUIREMENTS

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606 LAVATORIES & SINKS

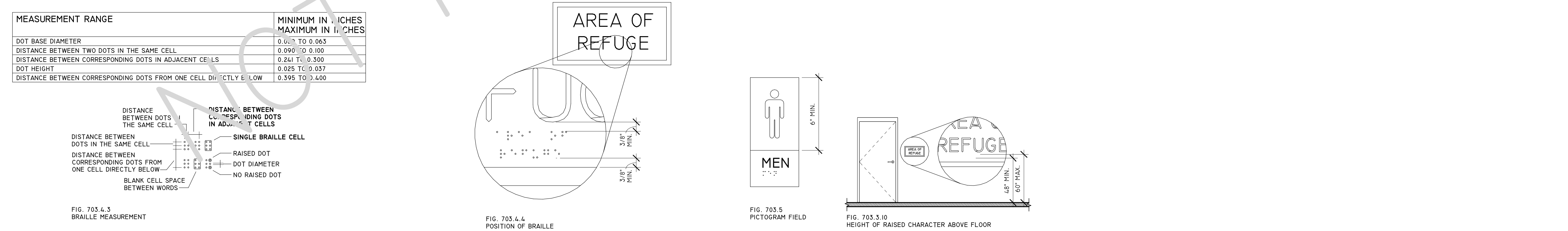
609 GRAB BARS

703 SIGNS
CHAPTER 7 PLUMBING ELEMENTS & FACILITIES

date:
09/21/2026

drawing phase:
CONSTRUCTION
DOCUMENTS

drawing number:



703 SIGNS
CHAPTER 7 PLUMBING ELEMENTS & FACILITIES

G0.4

project number: **26034**

REVISION SCHEDULE		
REV. #	DESC.	DATE

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
FLOOR PLAN

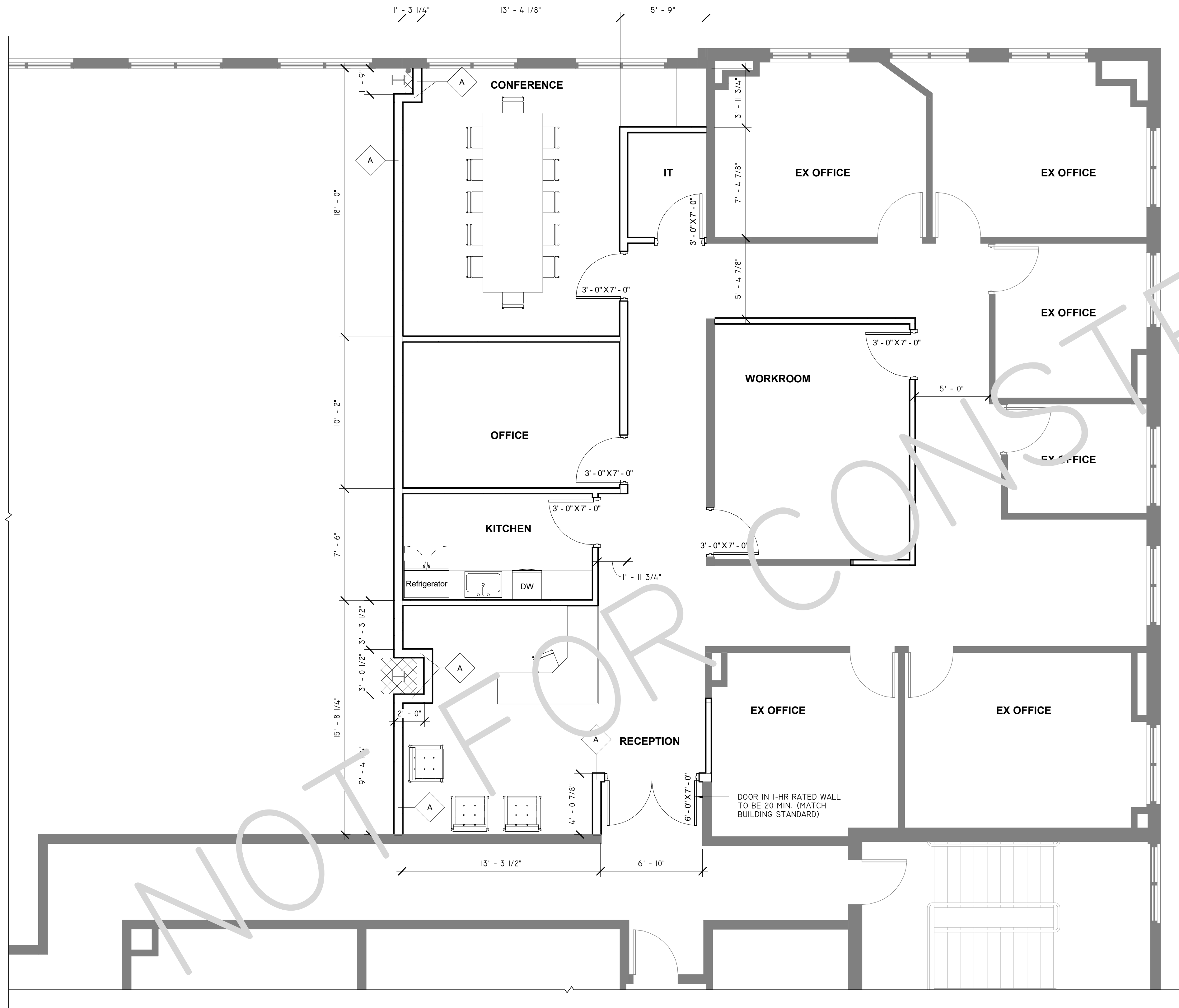
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09/21/2026

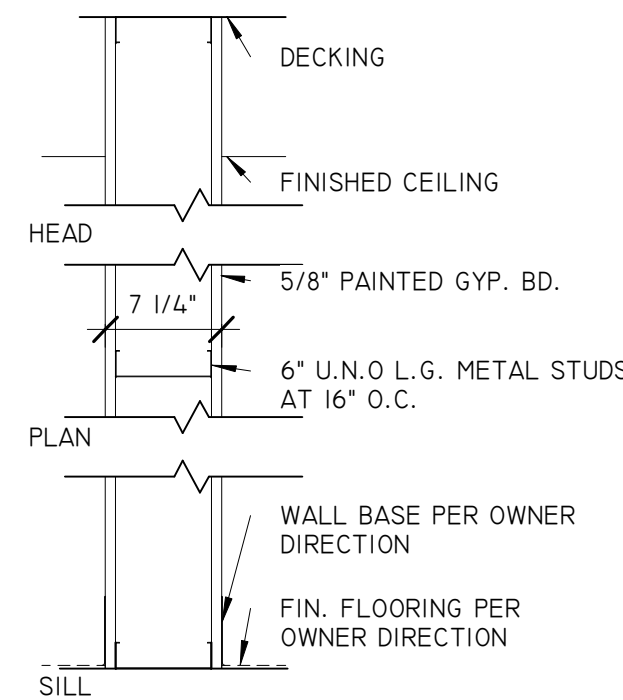
drawing phase:
CONSTRUCTION
DOCUMENTS

drawing number:

AI.0

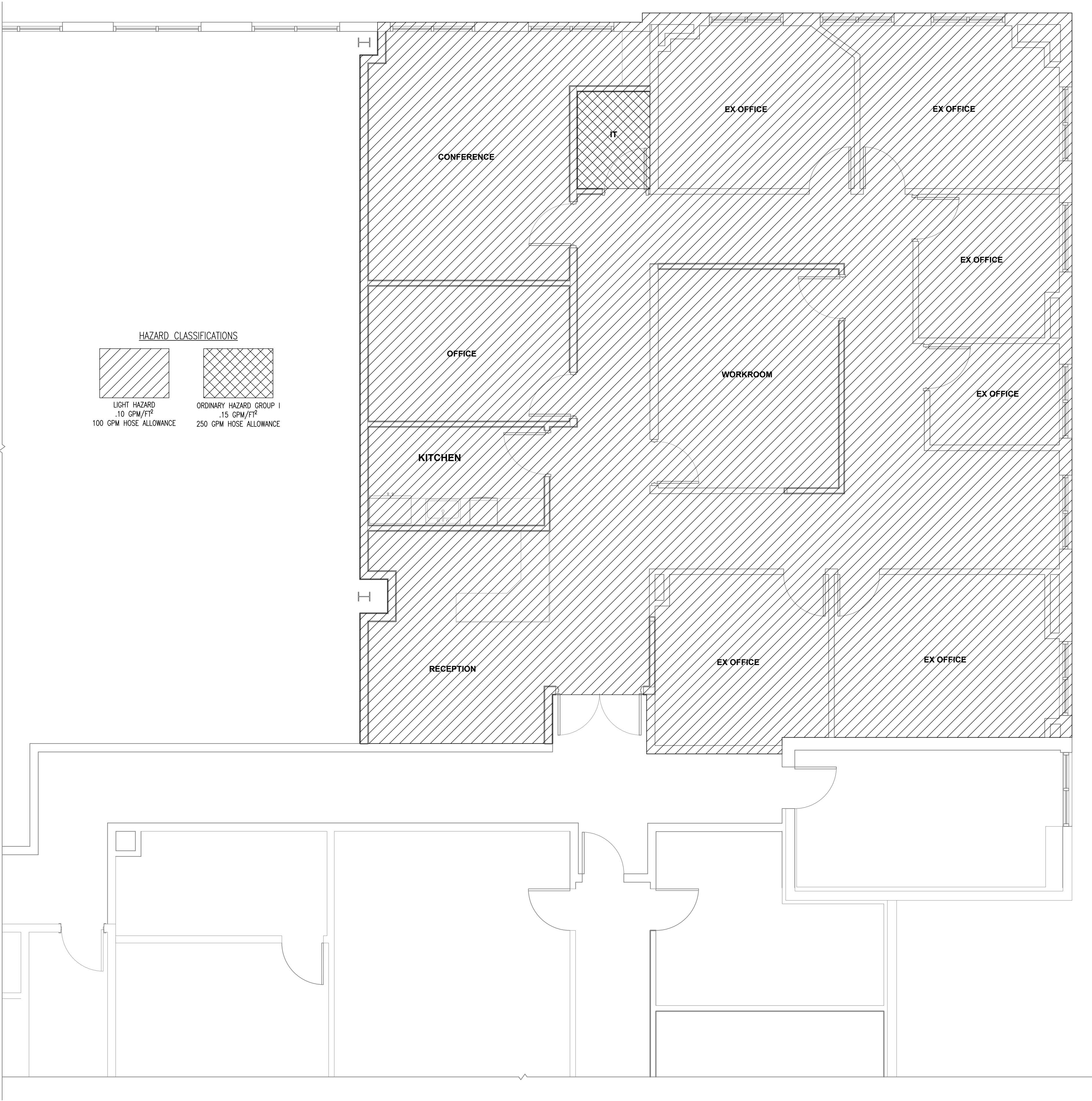


B1 LEVEL 2 - EXISTING
1/8" = 1'-0"



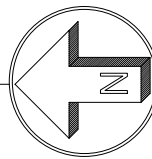
A WALL TYPE A
1-HOUR RATED
ASSEMBLY UL-U305

A1 LEVEL 2 - NEW WORK
1/4" = 1'-0"



FIRE PROTECTION FLOOR PLAN

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



221 Hollywood Blvd NE
Ft Walton Beach, FL 32548
850.244.6189V

Alabama #CD-2429-E
Arkansas #1654
Florida #00009014
Georgia #PEF003983
Louisiana #EF0006882

1399-M Jenks Ave
Panama City, FL 32401
850.215.4068V

Mississippi #E-00000862
Missouri #2018035834
South Carolina #7058
Texas #F-16637

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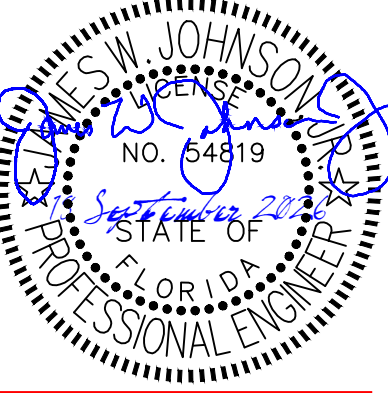
JPE Job Number: 2653

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# AR100031

project number: **26034**

REVISION SCHEDULE

REV. #	DESC.	DATE
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This item has been electronically signed and sealed by James W. Johnson, Jr. using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
FIRE PROTECTION
FLOOR PLAN

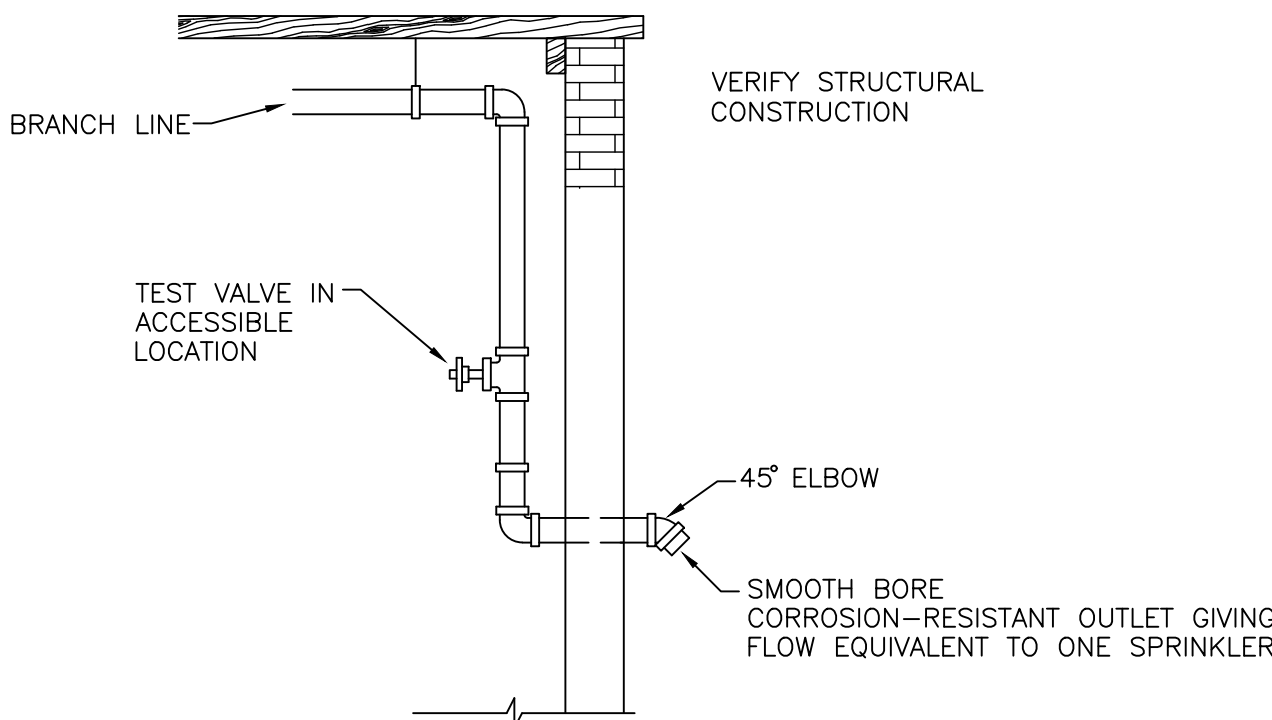
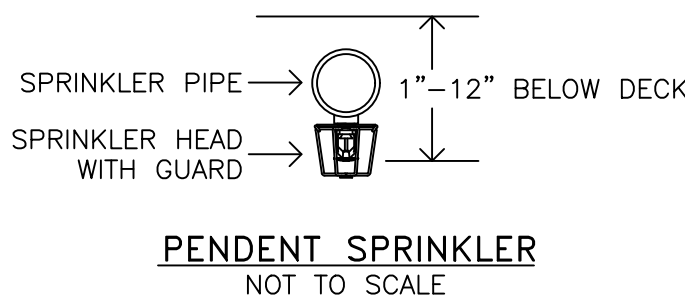
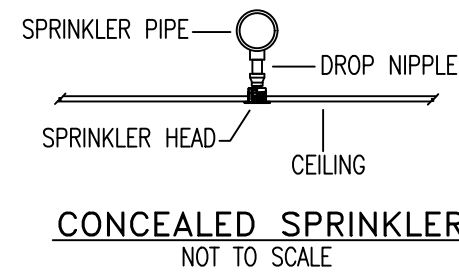
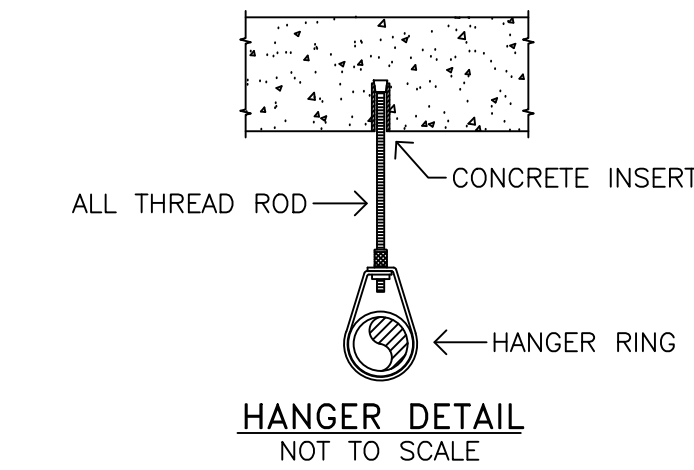
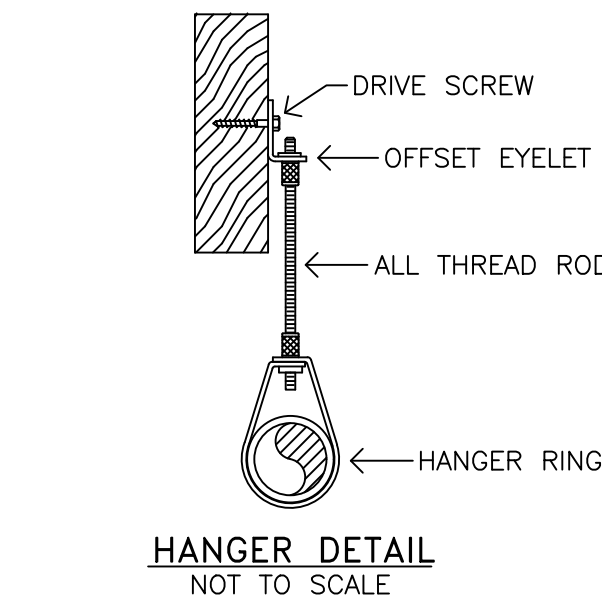
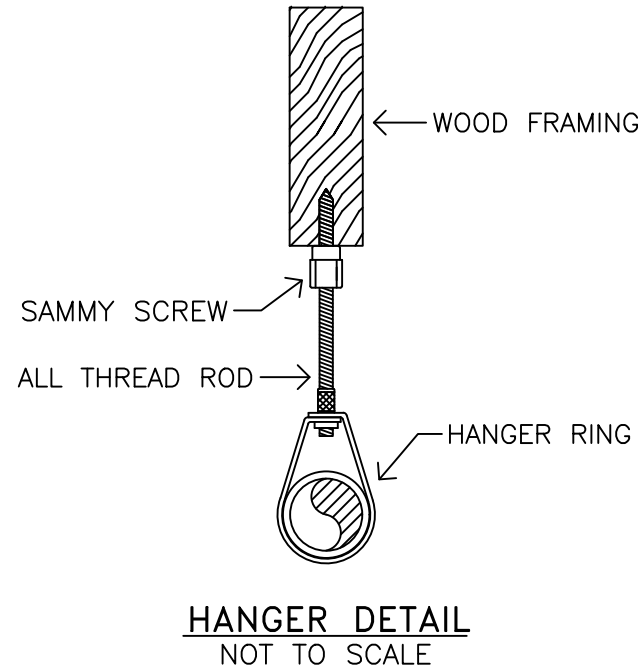
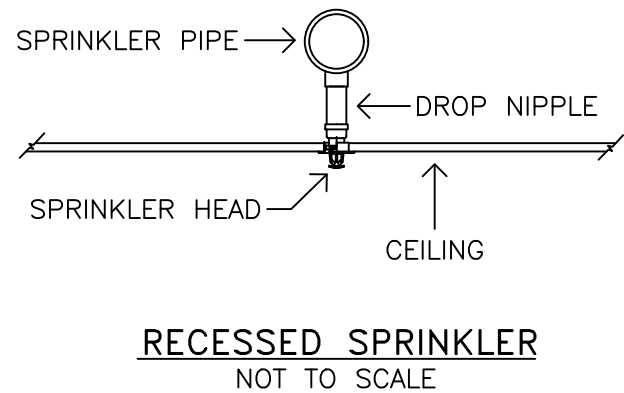
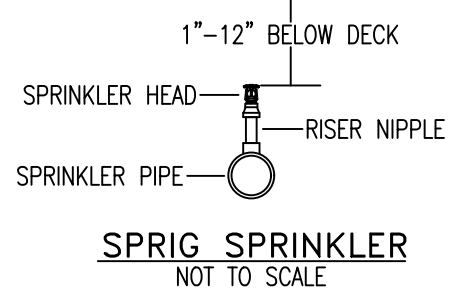
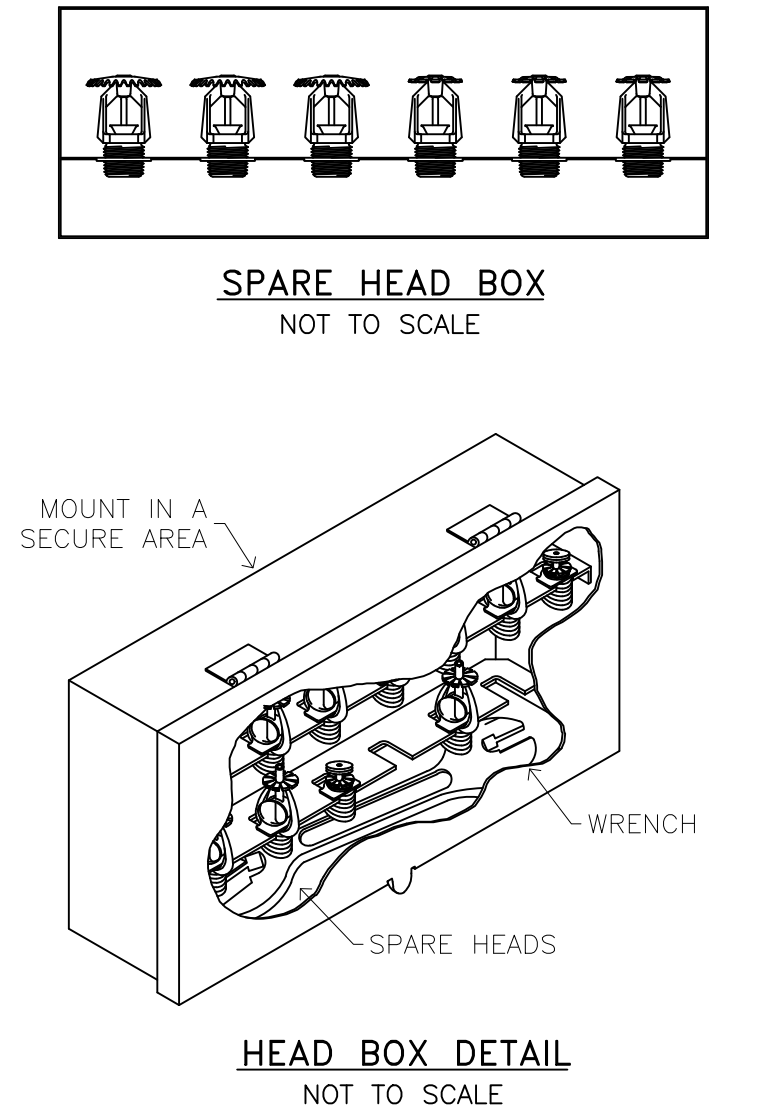
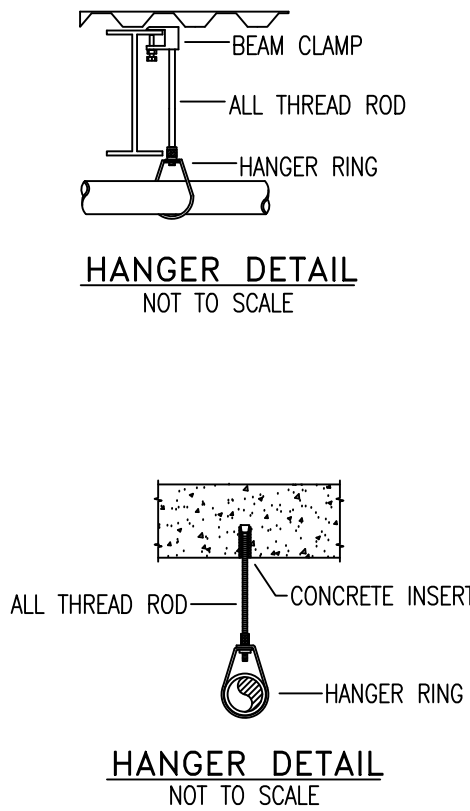
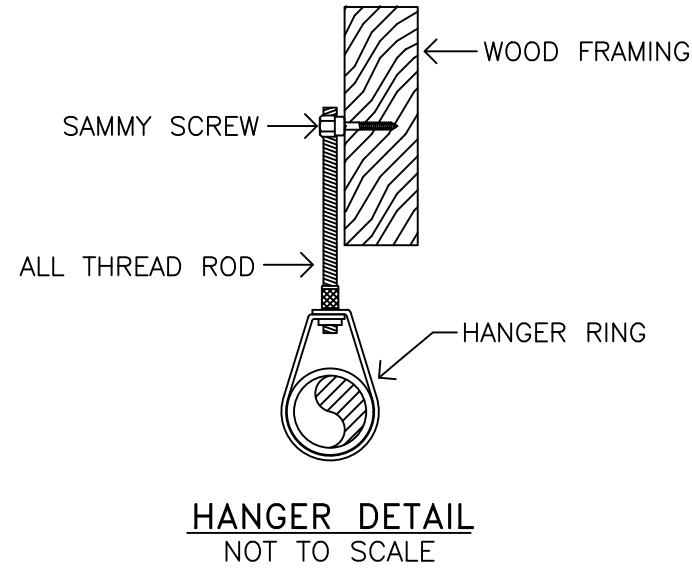
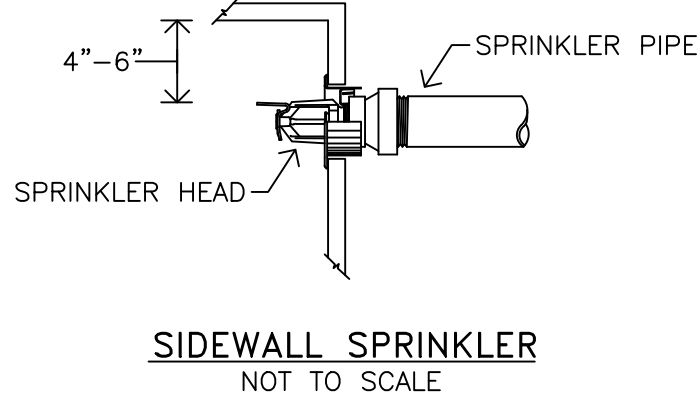
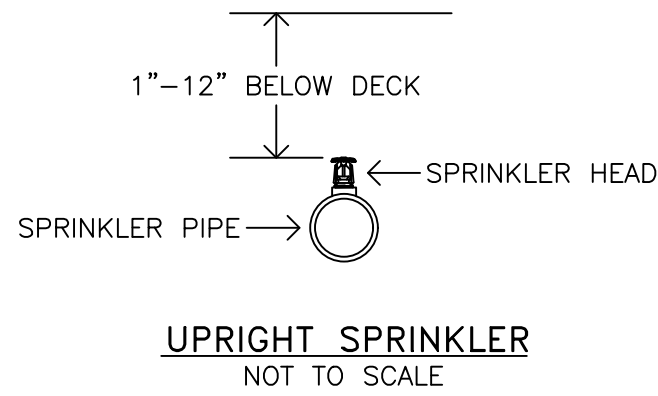
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date:
09/18/26

drawing phase:
FOR CONSTRUCTION

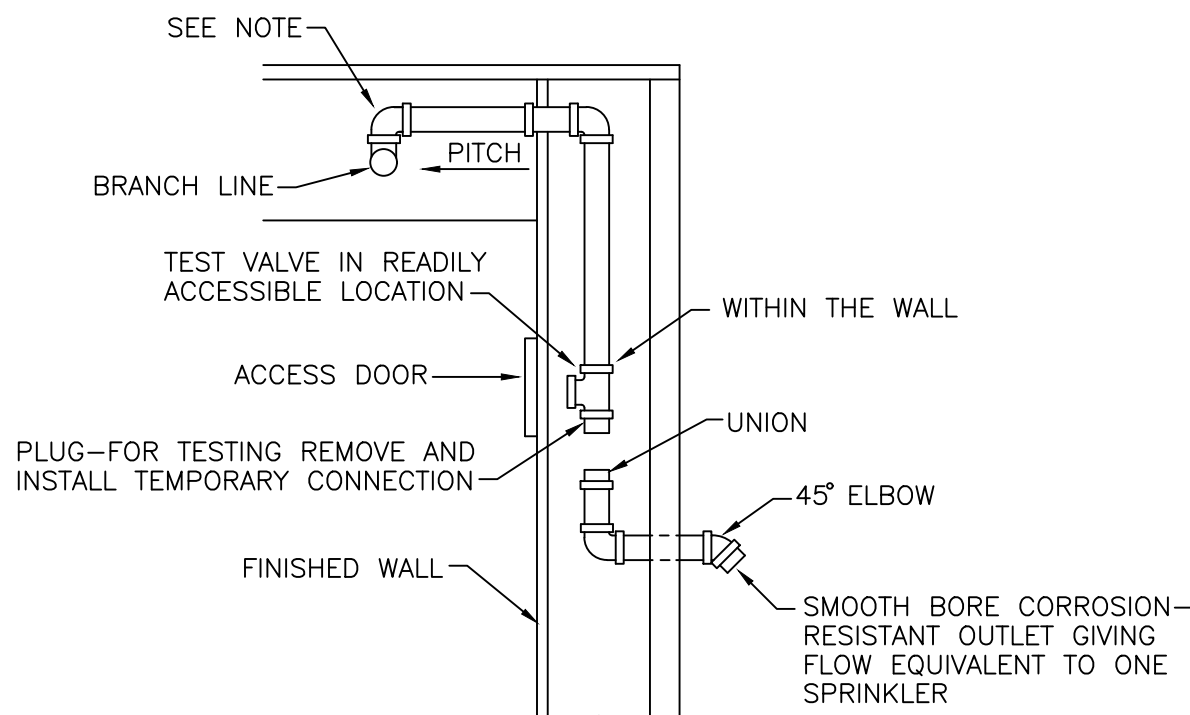
drawing number:

FP1.0



NOTE: NOT LESS THAN 4 FT (1.2 M) OF EXPOSED TEST PIPE IN WARM ROOM BEYOND VALVE WHERE PIPE EXTENDS THROUGH WALL TO OUTSIDE.

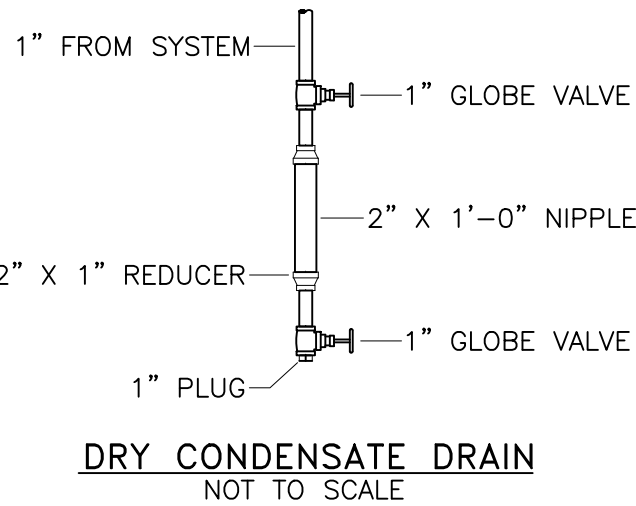
**INSPECTOR'S TEST CONNECTION
WET PIPE SYSTEM**
NO SCALE



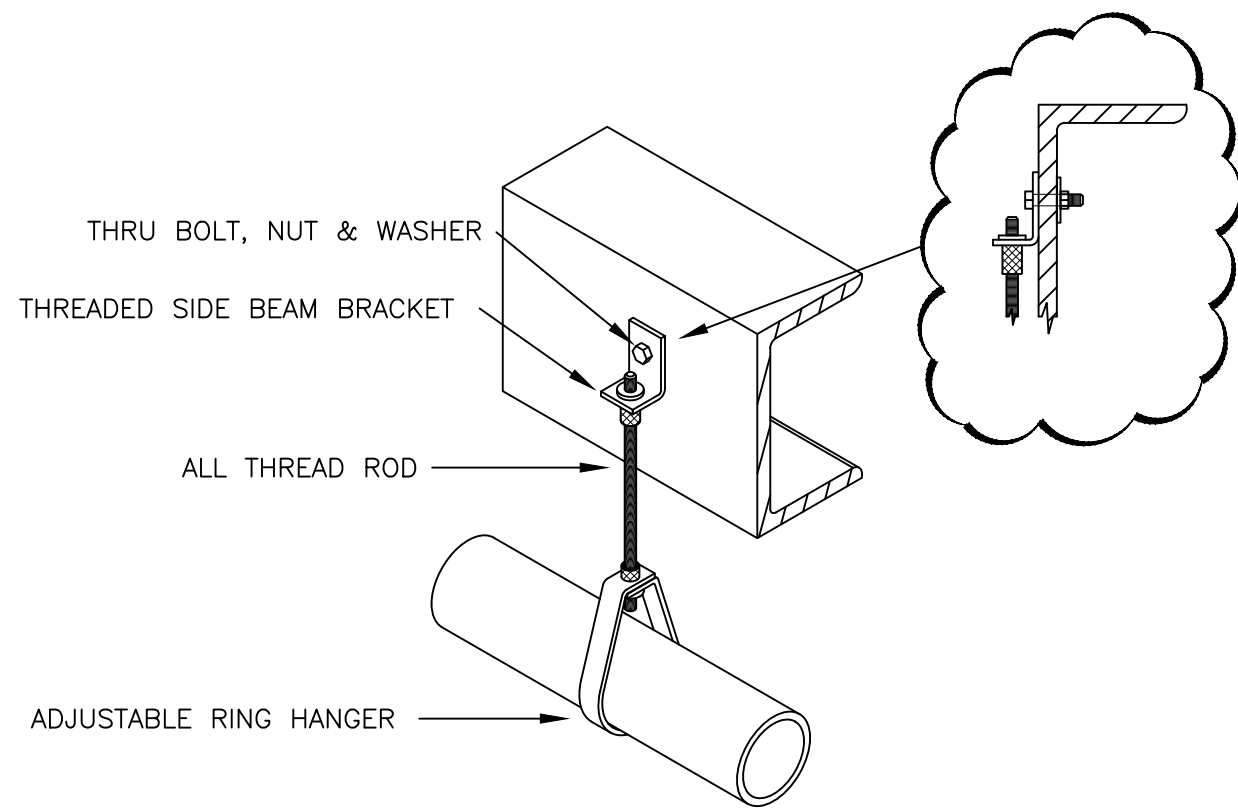
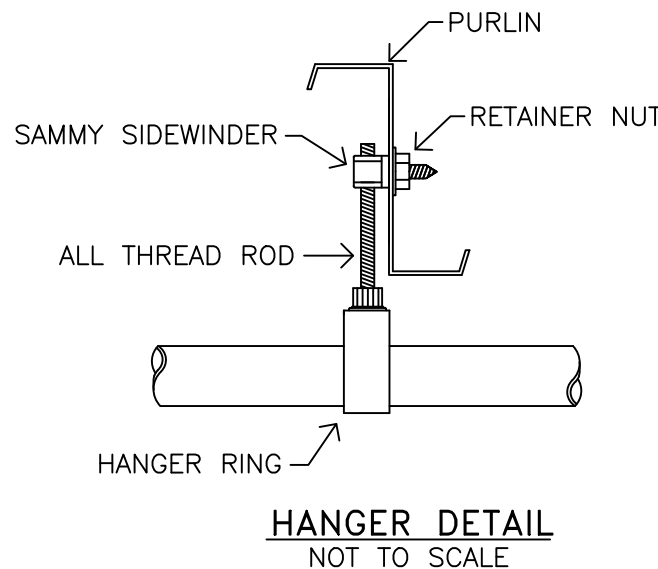
NOTE: TO MINIMIZE CONDENSATION OF WATER IN THE DROP TO THE TEST CONNECTION, PROVIDE A NIPPLE-UP OFF OF THE BRANCH LINE.

NFPA 13 A.B.17.4.2

**INSPECTOR'S TEST CONNECTION
DRY PIPE SYSTEM**
NO SCALE

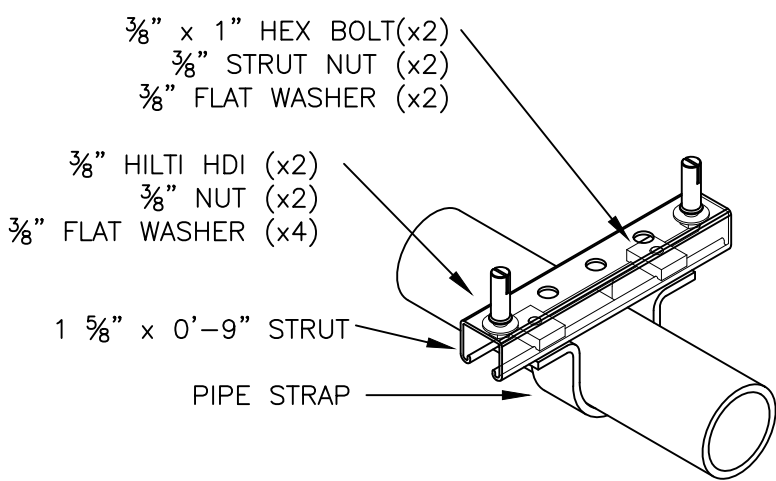


DRY CONDENSATE DRAIN
NOT TO SCALE

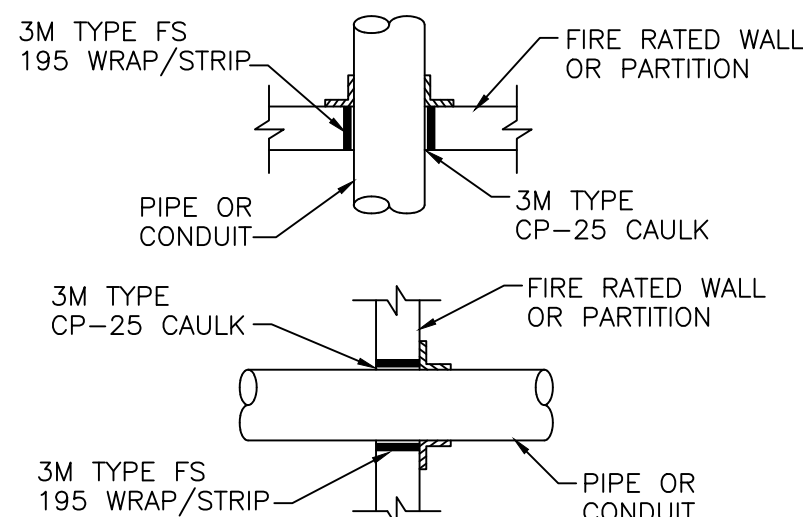


HANGER #12 SIDE BEAM BRACKET - STEEL
NOT TO SCALE

MAXIMUM DISTANCE BETWEEN HANGERS												
NOMINAL PIPE SIZE (in.)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0



HANGER #33 UNISTRUT & PIPE STRAP
NOT TO SCALE



NOTE: ALL FIRE STOPPING MATERIAL TO COMPLY WITH STANDARD BUILDING CODE SECTION 705, ASTM E119 REQUIREMENTS.

**DETAIL-FIRE STOPPING
OF PIPING PENETRATIONS**
NO SCALE

FIRE PROTECTION NOTES

THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS THOROUGHLY COORDINATED WITH THE CONSTRUCTION DOCUMENTS AND THE OTHER TRADES. ALL LAYOUT WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 13 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS".
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 14 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF STANDPIPES AND HOSE SYSTEMS".
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 20 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF CENTRIFUGAL PUMPS".
4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 24 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAIN AND THEIR APPURTENANCES".
5. 2023 FLORIDA BUILDING CODE AND THE LIFE SAFETY CODE (NFPA 101 (CURRENT EDITION)
6. WHERE ADDITIONAL OR MORE STRINGENT REQUIREMENTS ARE NOTED ON THE DRAWINGS OR SPECIFIED BY LOCAL ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. PARTICULAR ATTENTION SHOULD BE GIVEN TO LOCAL ORDINANCES PERTAINING TO STANDPIPE REQUIREMENTS.
7. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD TWO SETS OF THE FIRE SPRINKLER LAYOUT DRAWINGS, PRODUCT SUBMITTAL AND HYDRAULIC CALCULATIONS FOR REVIEW. THE FIRE SPRINKLER LAYOUT DRAWINGS AND CALCULATIONS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.
8. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT THE REQUIRED FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMITTING AFTER RECEIVING APPROVED SHOP DRAWINGS FROM THE ENGINEER OF RECORD. THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.
9. THE PRIVATE FIRE SERVICE MAIN SHALL BE INSTALLED BY A FLORIDA CERTIFIED FIRE SPRINKLER CONTRACTOR. THIS CONTRACTOR'S WORK SHALL BEGIN AT THE POINT OF CONNECTION WHERE THE UNDERGROUND IS SOLELY DEDICATED
10. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A CURRENT FIRE FLOW TEST. THE FIRE FLOW TEST SHALL BE WITNESSED AND APPROVED BY THE LOCAL FIRE INSPECTOR.

LIGHT HAZARD DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
LIGHT HAZARD DENSITY: 0.10 GPM/ SQ. FT.
HEAD SPACING: 225 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP I DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP II DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.20 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY DRY HAZARD DESIGN APPROACH DATA

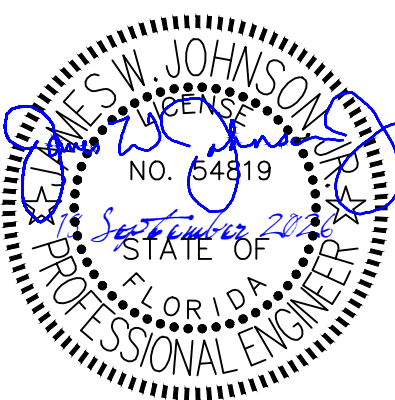
SYSTEM(S) TYPE: DRY PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# AR100031

project number: **26034**

REVISION SCHEDULE

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project name:
**GRAND BOULEVARD
OFFICE**

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
**FIRE PROTECTION
DETAILS**

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drawing number:

JPE
JOHNSON PEADEN
ENGINEERING INC.

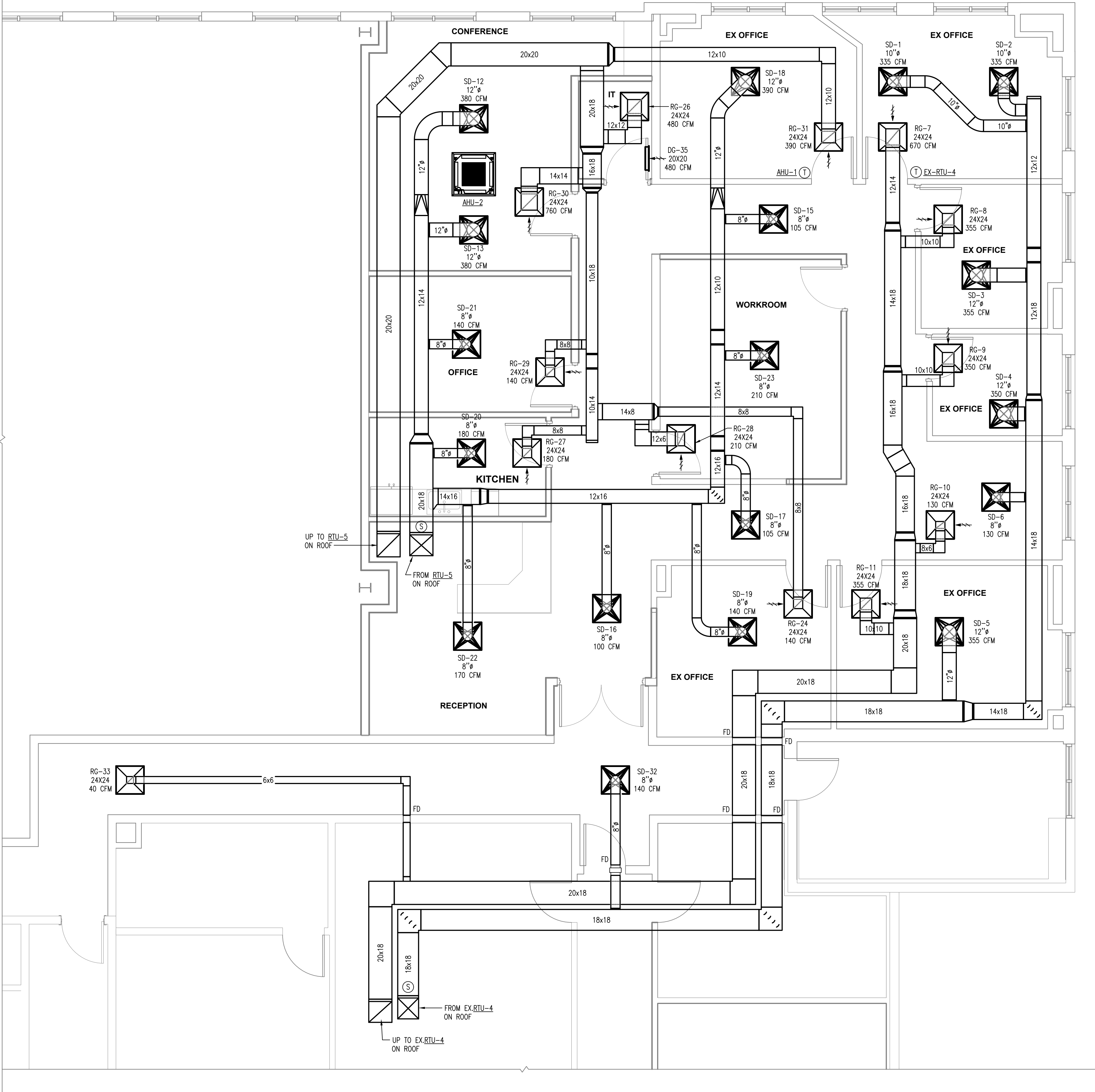
221 Hollywood Blvd NE
Ft Walton Beach, FL 32548
850.244.6189V
Alabama #CD-2429-E
Arkansas #1654
Florida #00009014
Georgia #PEF003983
Louisiana #EF0006882

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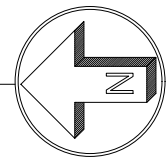
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FP5.0



MECHANICAL FLOOR PLAN

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



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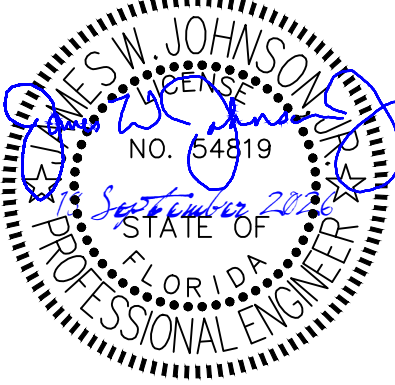
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90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# AR100031

project number: **26034**

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drawing name:
MECHANICAL
FLOOR PLAN

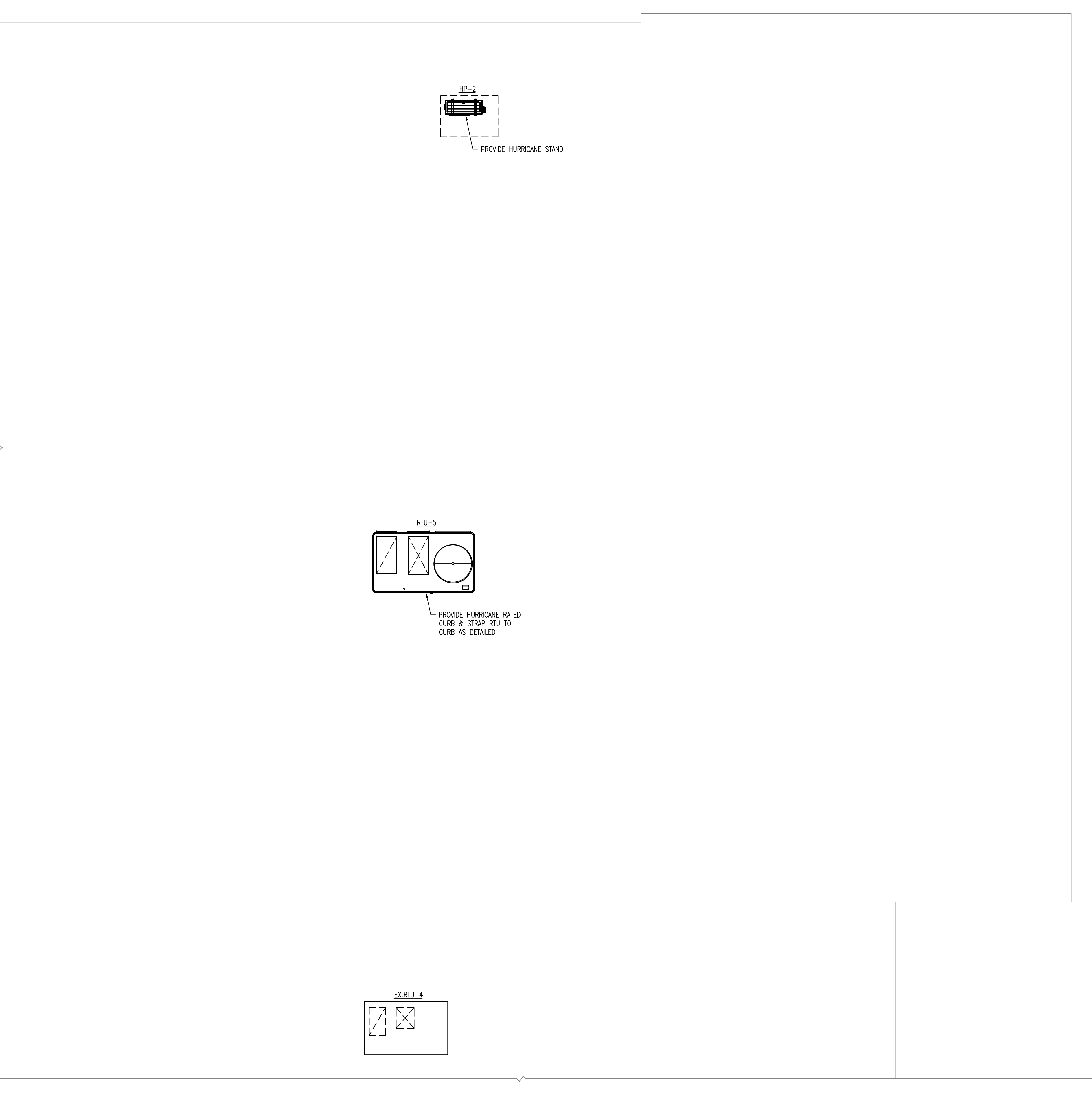
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MECHANICAL ROOF PLAN

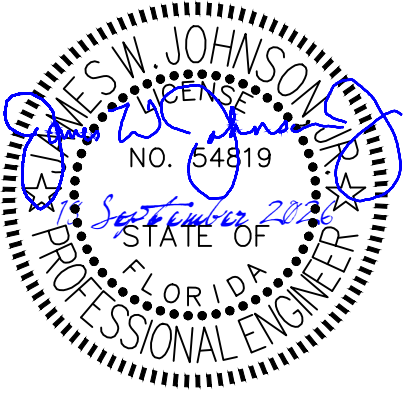
SCALE: 1/4" = 1'-0"

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# ARI00031

project number: **26034**

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ROOF PLAN

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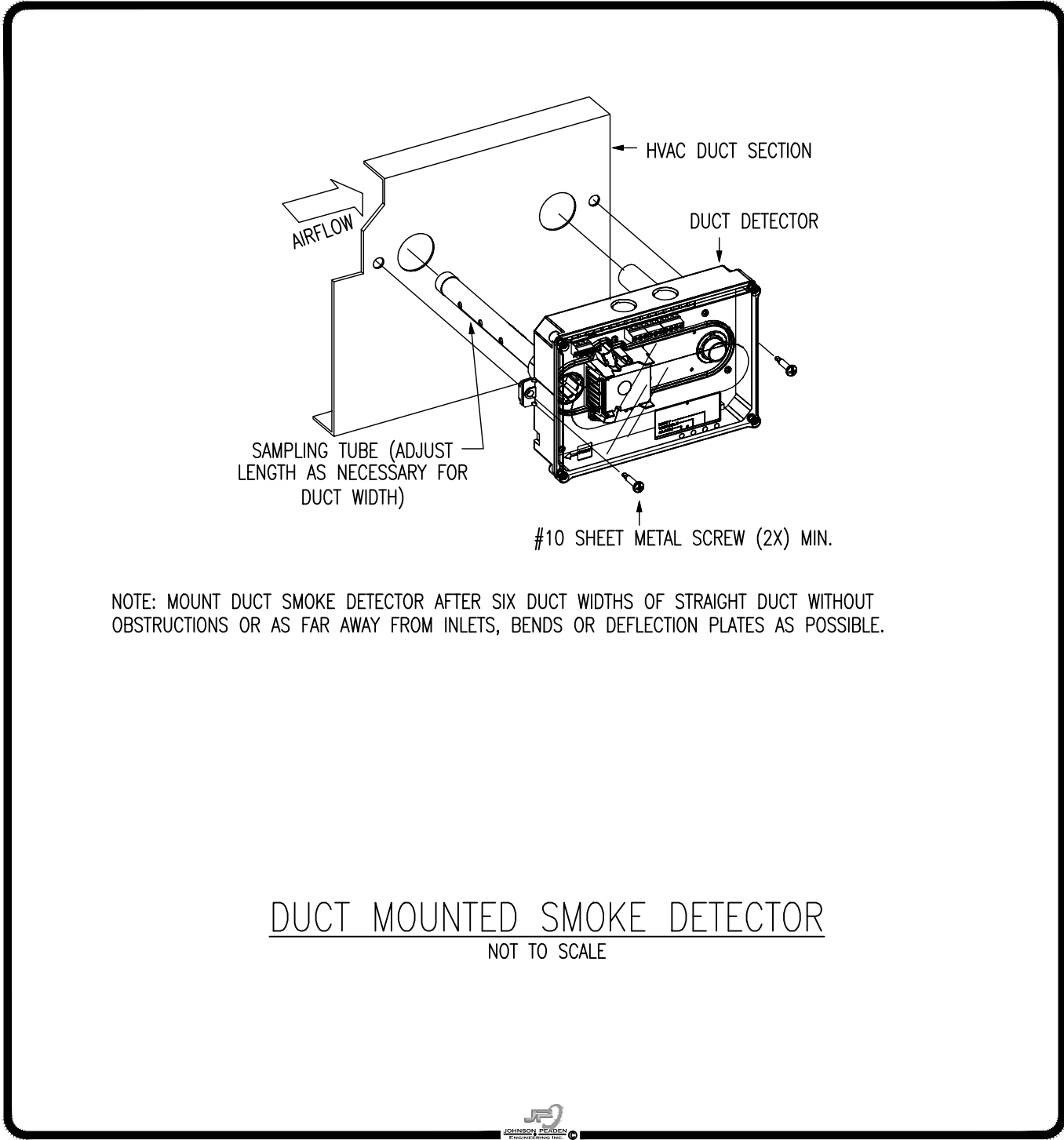
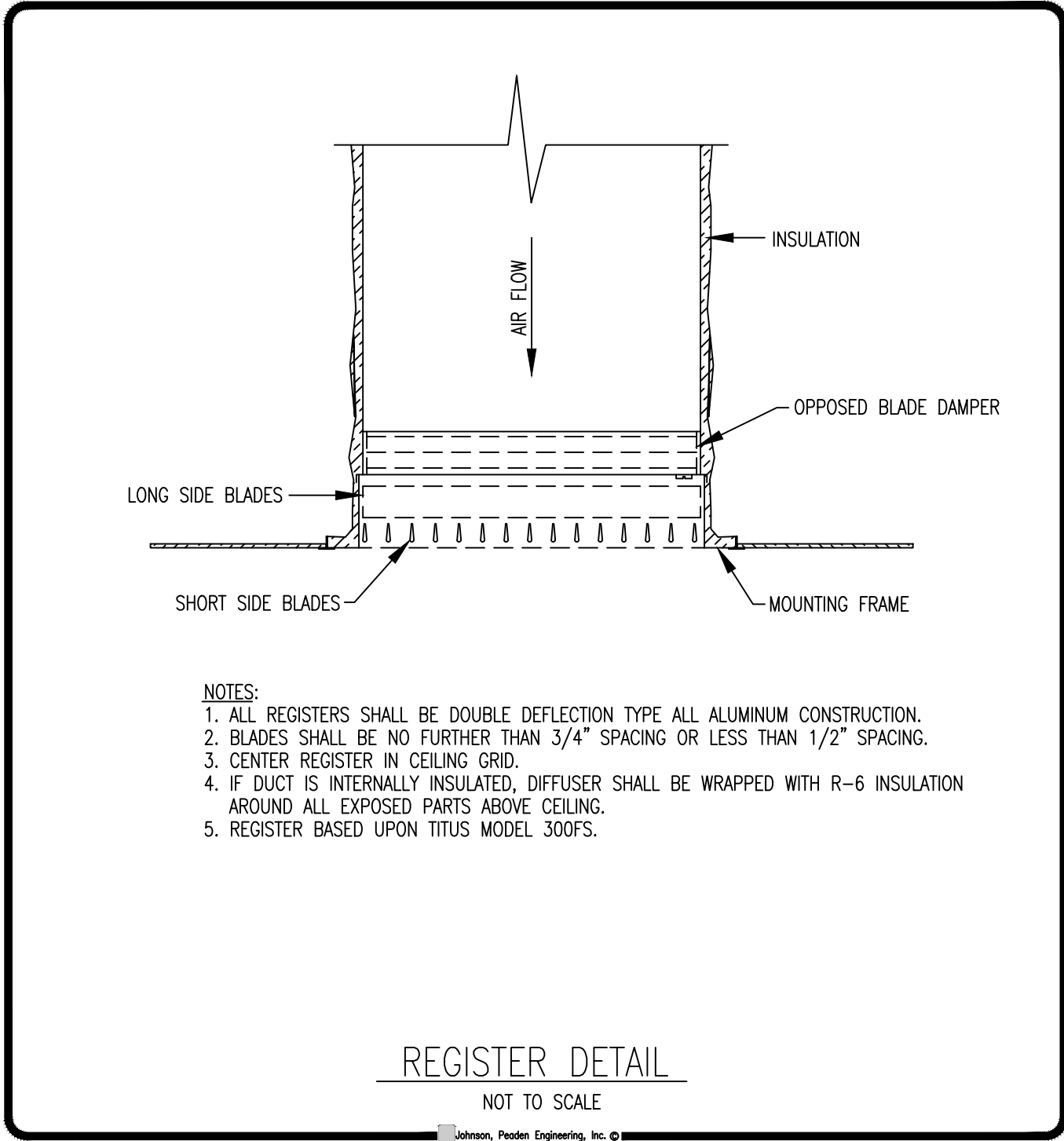
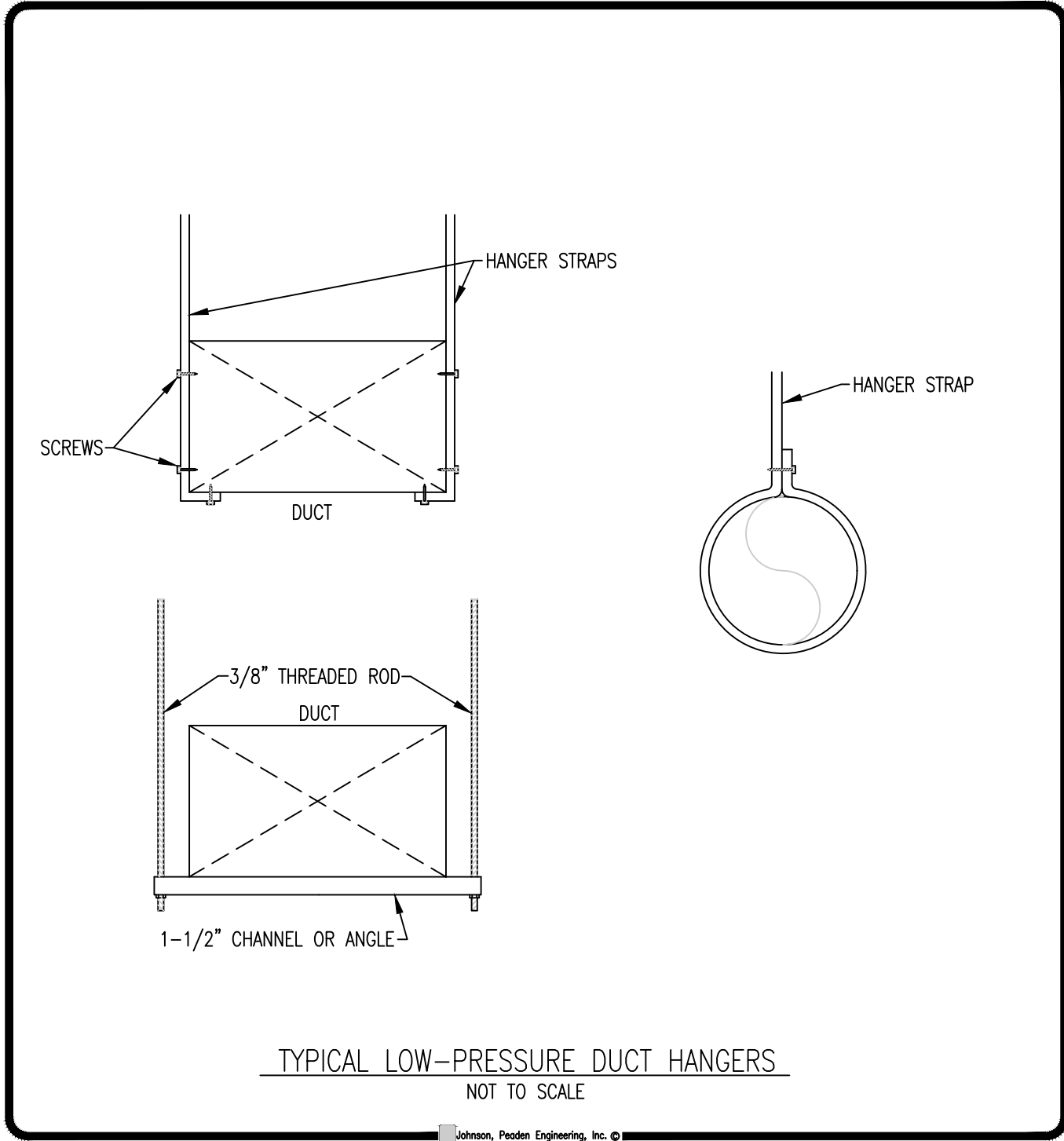
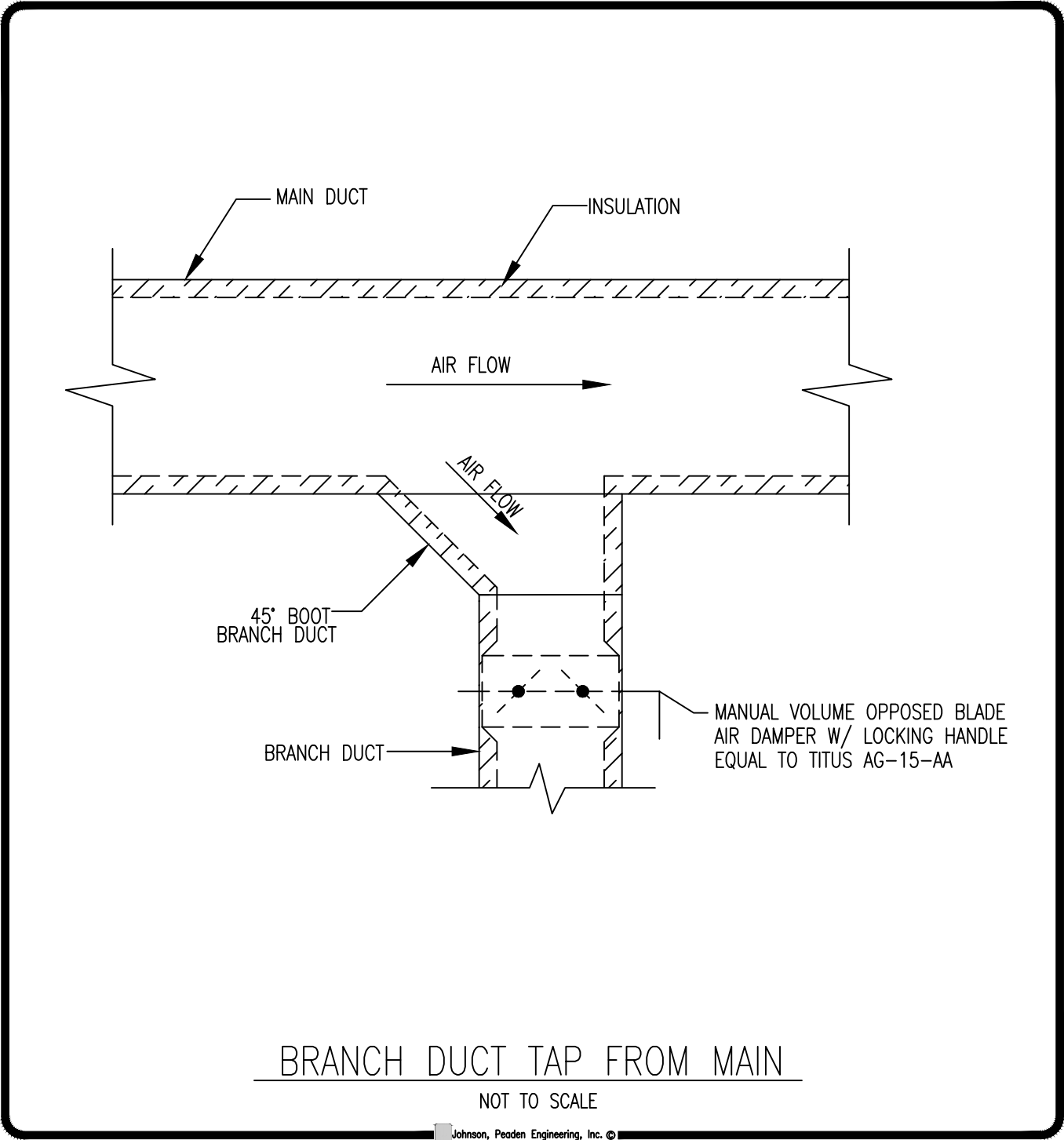
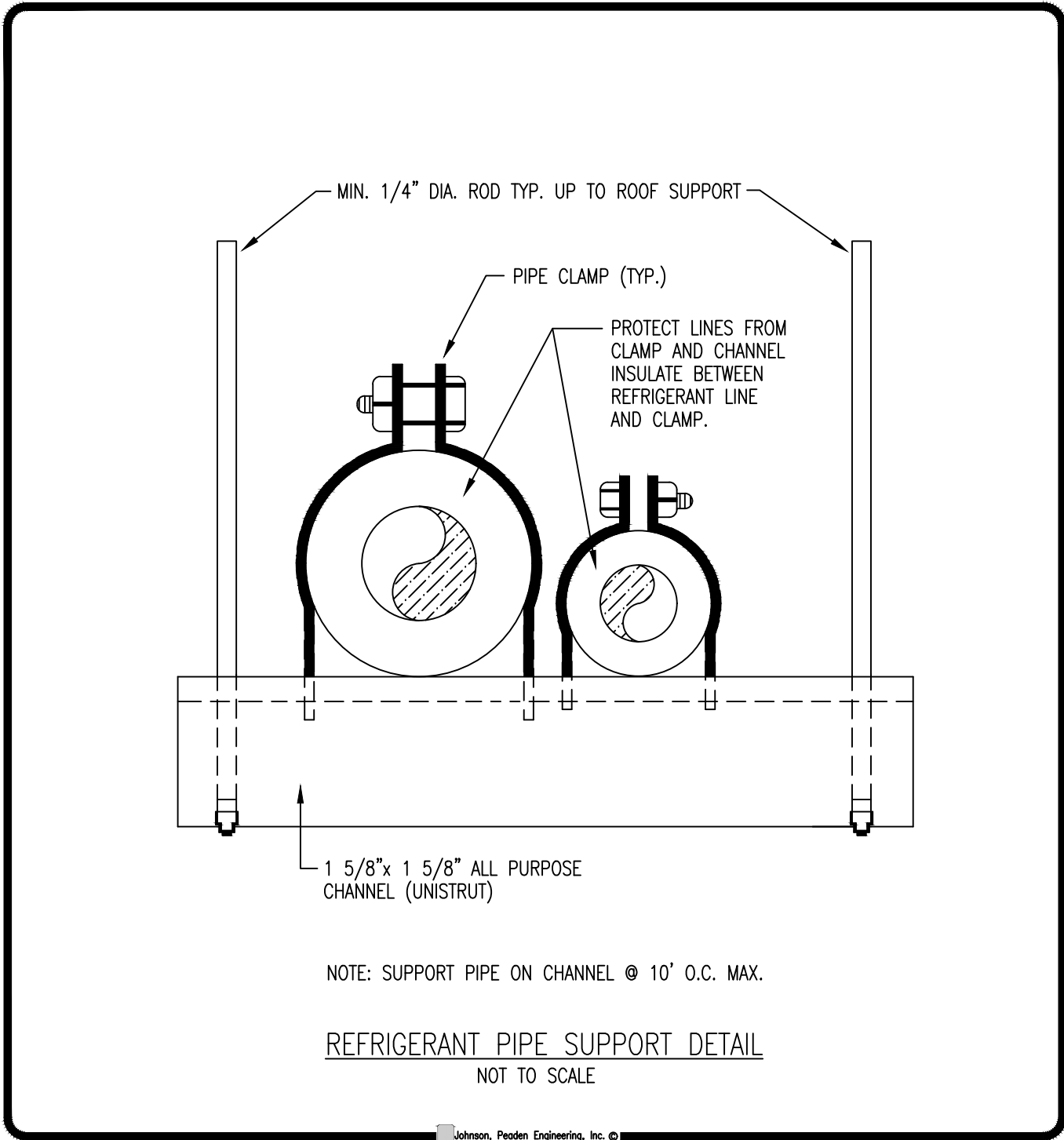
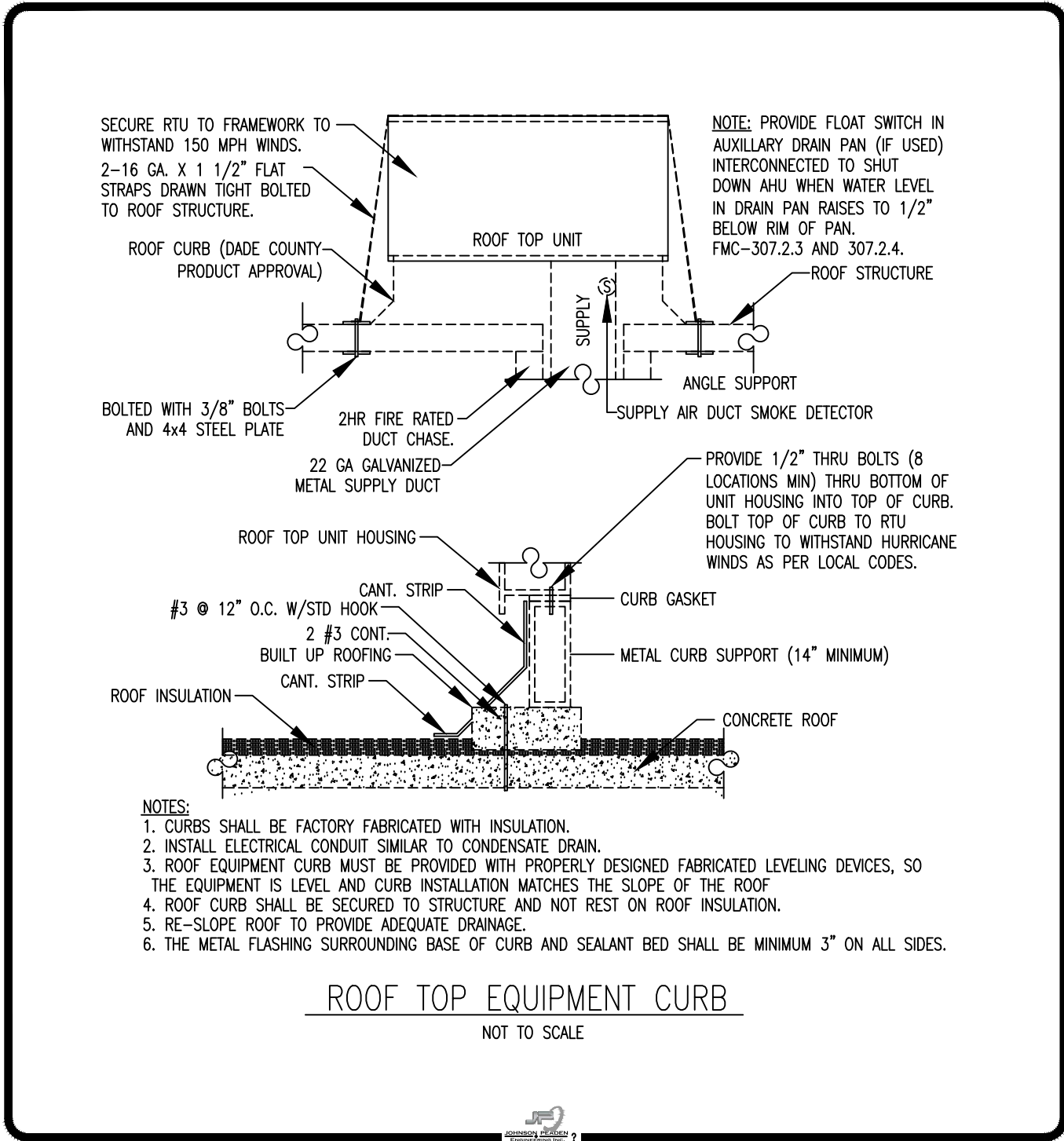
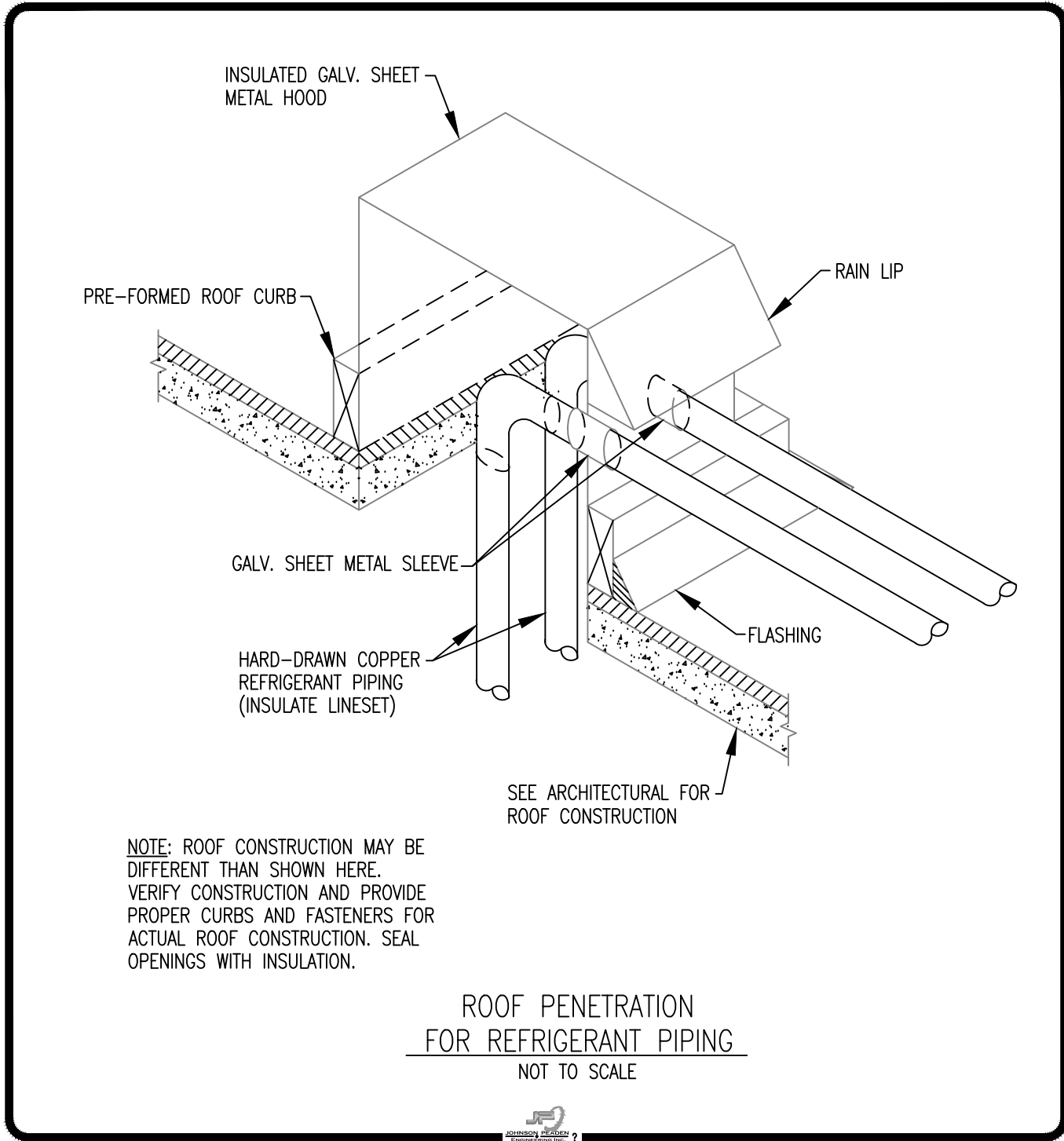
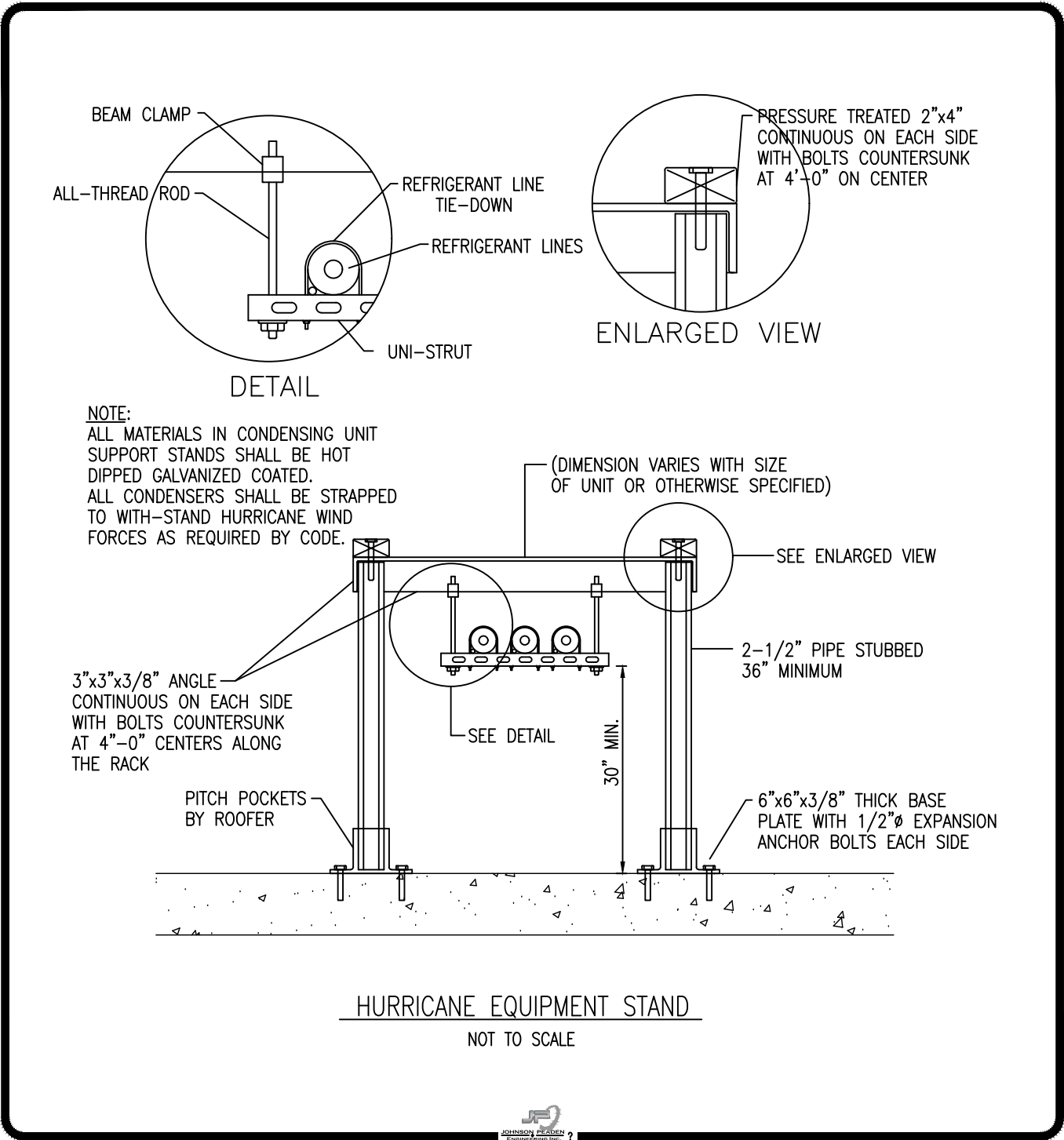
Alabama #CD-2429-E
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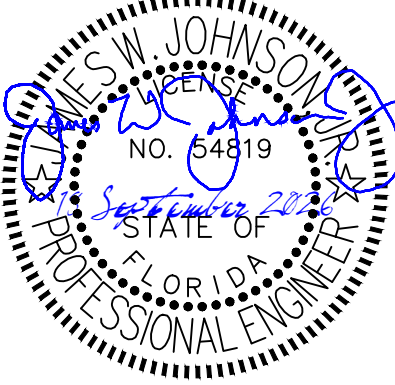
JPE Job Number: 2653



90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# AR100031

project number **26034**

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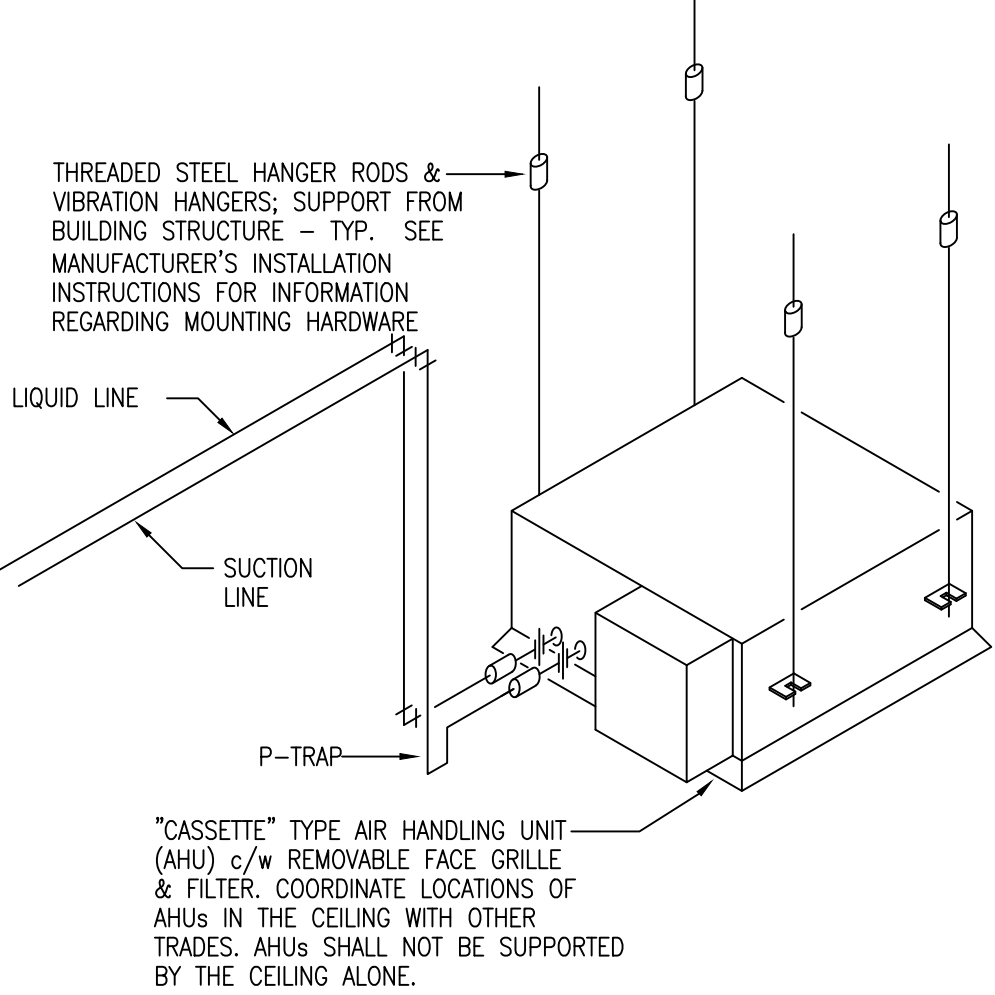
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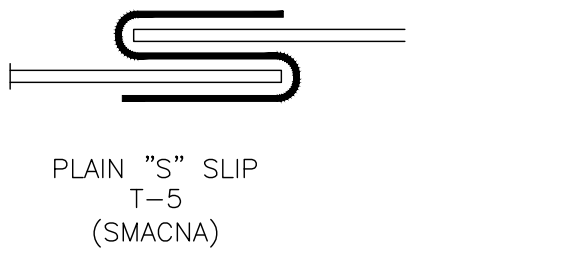
JPE Job Number: 2653

NOTES

- 1.) EXACT ROUTING OF REFRIGERANT PIPING SHALL BE DETERMINED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INPUT. PROVIDE PIPING DIAGRAMS AS SHOP DRAWINGS.
- 2.) REFRIGERANT TUBING & FITTINGS SHALL BE PROCESSED TUBING SUITABLE FOR THIS APPLICATION AS REQUIRED BY THE EQUIPMENT MANUFACTURER. INSULATE REFRIGERANT LINES IN ACCORDANCE WITH SPECIFICATIONS.

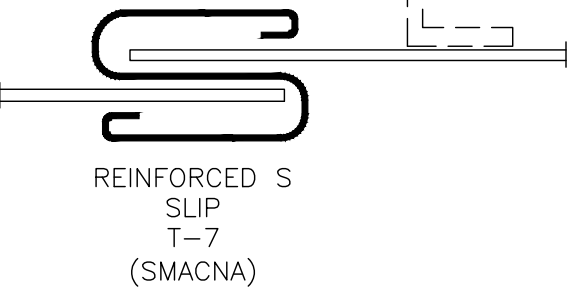


TYPICAL CEILING CASSETTE MINI-SPLIT INSTALLATION
NOT TO SCALE



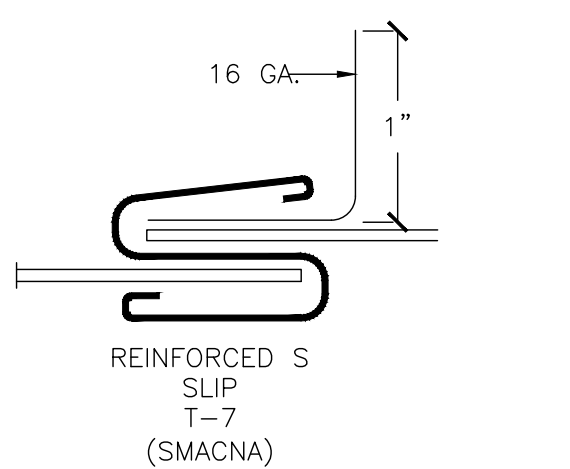
PLAIN "S" SLIP
T-5
(SMACNA)

- NOT LESS THAN TWO GAGES LESS THAN DUCT GAGE
- 24 GA MINIMUM
- WHEN USED ON ALL FOUR SIDES, FASTEN WITHIN 2" OF THE CORNERS AND AT A 12" MAXIMUM INTERVALS
- 2" W.G. MAXIMUM PRESSURE
- ALL DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-8 INSULATION.



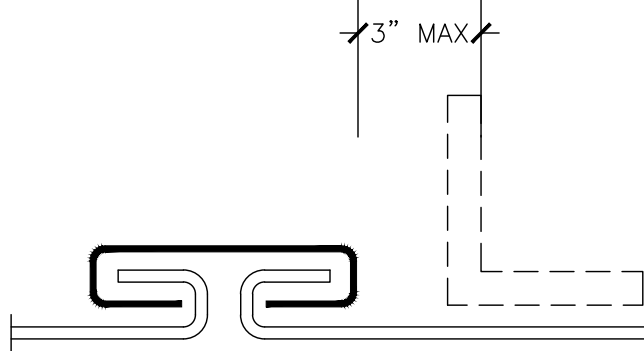
REINFORCED S
SLIP
T-7
(SMACNA)

- USE SLIPS CONFORMING TO T-6
- USE 16 GA ANGLE OF 1" HEIGHT INTO SLIP POCKET
- FASTEN WITH SCREWS AT ENDS
- ANGLE USED ONLY FOR A, B OR C RIGIDITY CLASS
- 2" W.G. MAXIMUM PRESSURE.
- ALL DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-8 INSULATION.



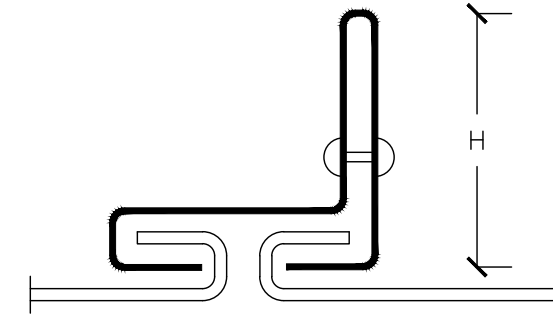
REINFORCED S
SLIP
T-7
(SMACNA)

DUCTWORK CONNECTION DETAIL
(LOW PRESSURE ONLY)
NOT TO SCALE



T-1 - DRIVE SLIP
T-3 - REINFORCED
(SMACNA)

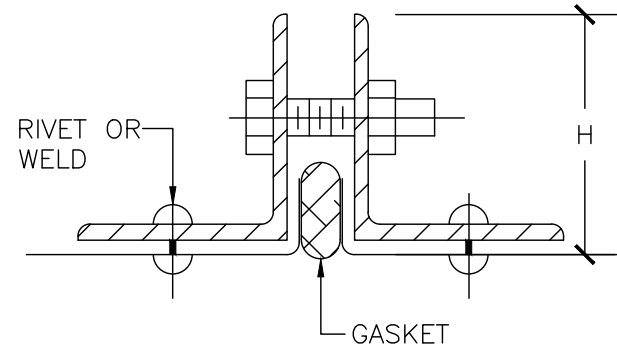
- GAGE NO LESS THAN TWO GAGES LESS THAN DUCT GAGE 24 GA MINIMUM.
- QUALIFICATION AS REINFORCEMENT PER TABLE 2-48
- T-3 - SLIP GAGE AS PER T-1
 - ANY LENGTH AT 2" W.G.
 - 36" MAXIMUM LENGTH AT 3" W.G.
 - 30" MAXIMUM LENGTH AT 4" W.G.
 - NOT ALLOWED ABOVE 4" W.G.
 - ALL DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-8 INSULATION.



STANDING DRIVE SLIP
T-2
(SMACNA)

- FASTEN STANDING PORTIONS WITHIN 2" OF EACH END AND ELSEWHERE AT 8" SPACING OR LESS.
- ANY LENGTH AT 2" W.G.
- 36" MAXIMUM LENGTH AT 3" W.G.
- 30" MAXIMUM LENGTH AT 4" W.G.
- NOT ALLOWED ABOVE 4" W.G.
- ALL DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-8 INSULATION.

DUCTWORK CONNECTION DETAIL
(LOW PRESSURE ONLY)
NOT TO SCALE



COMPANION ANGLES
(CAULK OR GASKET)
T-22

- 3/8" MINIMUM FLANGE ON DUCT.
- ANGLES MUST HAVE WELDED CORNERS
- ANGLES MUST BE TACK WELDED, BOLTED OR SCREWED TO THE DUCT WALL AT 2" MAXIMUM FROM THE ENDS AND AT 12" MAXIMUM INTERVALS
- BOLT SCHEDULE:
 - 5/16" MINIMUM DIAMETER AT 6" MAXIMUM SPACING AT 4" W.G. OR LOWER.
 - 1/8" ANGLE REQUIRES 4" MAXIMUM SPACING AT 4" W.G.
 - 4" MAXIMUM SPACING AT HIGHER PRESSURES.
- DUCTWORK SHALL BE WRAPPED WITH MINIMUM R-8 INSULATION.

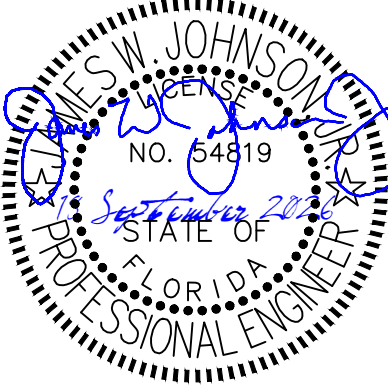
DUCTWORK CONNECTION DETAIL
NOT TO SCALE

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# AR100031

project number: **26034**

REVISION SCHEDULE

REV.	DESC.	DATE
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project name:

GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32550

drawing name:
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DETAILS**

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Florida #00009014
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JPE Job Number: 2653

MITSUBISHI VRF INDOOR UNIT SCHEDULE		
Tag Reference		AHU-2
Nominal Data	Room Name	Conference Room
	Model	PLA-AE18NL
	Type	Ceiling-Cassette (Four-Way)
	Nominal Cooling Capacity (BTU/h)	18,500
	Nominal Heating Capacity (BTU/h)	24,000
Design Conditions	Cooling Design Entering Temp DB/WB (°F)	74.8/65.9
	Heating Design Entering Temp DB/WB (°F)	66.3
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2
	Cooling Total Capacity (BTU/h)	16,896.8
	Cooling Sensible Capacity (BTU/h)	11,409.7
Performance Data	Heating Capacity (BTU/h)	21,861.2
	Estimated Cooling Coil LAT (°F)	57.0
	Estimated Heating Coil LAT (°F)	99.8
	Fan Speed Setting	HIGH
	Peak Fan Airflow (cfm)	600
Fan Flow Data	Sound Pressure Per Fan Speed 208V/230V (dBA)	28 - 29 - 31 - 32
	Voltage / Phase	208/230V/1-phase
Electrical Data	Electrical MCA/MFS	1/15
	Condensate Removal Rate (gal/hr)	0.14
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5
Notes & Options: 1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB) 2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities 4. See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices. 5. Provide condensate pump to discharge as shown on plumbing plans.		

MITSUBISHI VRF OUTDOOR UNIT SCHEDULE		
Tag Reference		HP-2
Design Conditions	Model Number	PUZ-AK18NL
	Nominal Cooling Capacity (BTU/h)	18,000
	Nominal Heating Capacity (BTU/h)	23,000
	EER2 [SEER2]	13.7 [24.7]
	Heating COP @ 47°F [HSPF]	3.7 [9.8]
	HSPF2 IV [V]	9.8 [7.6]
	Nom System Connected Capacity (% of NOM)	100.0 %
	Design Cooling Outdoor Temp DB (°F)	95.0
	Design Heating Outdoor Temp WB (°F)	43.0
	Max Pipe Length from BC or 1st Joint (feet)	0.0
Performance Data	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	1/4 / 1/2
	Corrected Cooling Total Capacity (BTU/h)	16,896.8
	Corrected Heating Capacity (BTU/h)	21,861.2
	Sound Pressure (dBA)	44/46
	Preliminary Added Field Charge (See Note 5)	0.0
Electrical Data	Voltage / Phase	208/230V / 1-phase
	MCA 208/230 or [460V]	16
	Recommended Fuse Size (RFS)	20
	MOCP	27
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4
Notes & Options: 1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB) 2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB) 3. Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units. 4. Efficiency values for EER2, SEER2, COP are based on AHRI 210/240 test method for mixture of ducted & non-ducted indoor units.		

GENERAL MECHANICAL NOTES	
1. FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL SYSTEM. DUE TO THE SCHEMATIC NATURE OF THESE PLANS, THE CONTRACTOR SHALL FIELD-VERIFY LOCATIONS FOR EQUIPMENT DUCTWORK, AND ACCESSORIES. IN ADDITION, THIS WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. THE CONTRACTOR SHALL ALSO REVIEW THE STRUCTURAL DRAWINGS BEFORE FABRICATING AND INSTALLING DUCTWORK OR EQUIPMENT.	
2. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.	
3. ALL MATERIALS SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.	
4. DUCT SIZES ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DUCT SHALL BE OF LOW-PRESSURE (2.0" w.g.) CONSTRUCTION AS CLASSIFIED BY SMACNA UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE MINIMUM 2" EXTERNAL WRAP (MINIMUM R-6.0). LINER MAY ONLY BE USED WHERE REQUIRED FOR SOUND ATTENUATION. DUCTBOARD SHALL NOT BE USED.	
5. FLEXIBLE DUCT MAY BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS. DUCT SHALL BE EXTERNALLY-INSULATED CORRUGATED METAL WITH A MAXIMUM LENGTH OF 6'-0". FOR TAKE-OFFS LONGER THAN 6'-0", THE REMAINDER OF THE DISTANCE SHALL BE EXTERNALLY-WRAPPED SINGLE-WALL ROUND DUCT WITH A SPIN-IN STYLE TAP AT THE MAIN DUCT.	
6. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.	
7. ALL RETURN AND EXHAUST GRILLES SHALL HAVE OPPOSED-BLADE DAMPERS. ALL SUPPLY-SIDE TAKE-OFFS SHALL HAVE A BALANCING DAMPER.	
8. FIRE DAMPERS AND FIRE-STOPPING SHALL BE PROVIDED FOR ANY PENETRATIONS OF FIRE-RATED PARTITIONS. VERIFY LOCATIONS OF ALL FIRE-STOPPING ON THE ARCHITECTURAL DRAWINGS.	
9. ALL GRILLES AND REGISTERS SHALL BE EQUAL TO TITUS WITH ALUMINUM CONSTRUCTION. SUPPLY GRILLES SHALL BE EQUAL TO MODEL TDC. SUPPLY REGISTERS SHALL BE EQUAL TO MODEL 301. RETURN, EXHAUST AND TRANSFER GRILLES SHALL BE EQUAL TO MODEL 355 WITH OPPOSED-BLADE DAMPERS. GRILLE FINISH SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT.	
10. EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE ABLE TO PROVIDE THE REQUIRED CAPACITIES IN THE MIDDLE OF ITS PERFORMANCE RANGE. ALL COMPRESSORS SHALL HAVE A MINIMUM 5-YEAR WARRANTY UNLESS OTHERWISE NOTED. THE EQUIPMENT SHALL HAVE AL THE NECESSARY CONTROLS AND ACCESSORIES TO ALLOW FOR FULL OPERATION. IF EQUIPMENT HAS COMPONENTS OF A VIBRATIVE NATURE, THE CONTRACTOR SHALL PROVIDE THE NECESSARY VIBRATION CONTROLS.	
11. REFRIGERANT PIPING SHALL BE HARD-DRAWN TYPE K OR L COPPER WITH COPPER SOLDER FITTINGS. PIPING SHALL BE SOLDERED WITH SILVER SOLDER AND INSULATED WITH 1/2" THICK THERMAL TUBULAR JACKETING. SEAL INSULATION JOINTS WITH TAPE AND CEMENT OR PER MANUFACTURER'S INSTRUCTIONS. PRE-INSULATED AND PRE-CHARGED REFRIGERANT LINES MAY BE USED AS PROVIDED BY THE EQUIPMENT MANUFACTURER. WHERE INSULATION IS EXPOSED TO WEATHER PROTECT LINES WITH AN ALUMINUM COVER AND PAINT TO MATCH EXTERIOR FINISH.	
12. CONDENSATE DRAINS SHALL BE FULL-SIZE (1" MINIMUM) COPPER OR SCHEDULE 40 PVC. DRAINS SHALL BE INSULATED IN THE SAME MANNER AS REFRIGERANT LINES. DISCHARGE AS SHOWN ON THE DRAWINGS.	
13. CONTROLS SHALL BE EQUAL TO MANUFACTURER'S CONTROLS. OUTDOOR UNITS SHALL HAVE FACTORY-WIRED TIME DELAYS, PRESSURE SWITCHES, LOW-AMBIENT CONTROLS AND DEFROST CONTROLS. THERMOSTATS SHALL BE DIGITAL AND PROGRAMMABLE WITH BATTERY BACK-UP. SETPOINTS SHALL FOLLOW DESIGN CONDITIONS OR BE AS DIRECTED BY THE OWNER. MOUNT ALL THERMOSTATS AND TEMPERATURE SENSORS 60" A.F.F.	
14. THE HVAC SYSTEM SHALL BE TESTED AND BALANCED ACCORDING TO AMBC STANDARDS. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A COPY OF THE TEST AND BALANCE REPORT AND THE OWNER WITH A LETTER STATING THAT THE SYSTEM(S) HAVE BEEN BALANCED TO WITHIN 10% OF DESIGN PARAMETERS.	

ELECTRIC HEAT ROOFTOP PACKAGE UNIT SCHEDULE																			
UNIT NO.	AIR CFM	O.A. CFM	APPROX. E.S.P.*W.G.	FAN H.P.	COOLING ENT AIR TEMP	COOLING LVG TEMP	OUTDOOR TEMP-COOLING	TOTAL COOLING	SENSIBLE COOLING	LATENT COOLING	EER	IEER	HEAT PUMP HEATING	COP	BACKUP HT (kW)	STAGES	OUTDOOR TEMP-HEATING	MCA	MOCP
RTU-5	2300	230	1.0	3.0	74.8°FDB/65.6°FWB	53.1°FDB/53.0°FWB	95°F	83.19 MBH	51.72 MBH	31.48 MBH	12.0	15.5	61.47 MBH	3.71	18.0	1	32.7°FDB/27.6°FWB	49.0	50.0
REMARKS 1. UNIT SHALL BE WIRED FOR SINGLE POINT CONNECTION, PROGRAMMABLE DIGITAL THERMOSTAT, ANTI-SHORT CYCLE TIMER, LOW AMBIENT CONTROLS, COIL GUARD KIT, VARIABLE HOT GAS REHEAT, REFERENCE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND MINIMUM 2-STAGE CLG. 2. HEATER SHALL BE EQUIPPED WITH SINGLE-STAGE HEATING ELEMENTS. PROVIDE MANUFACTURER'S HIGH WIND RATED ROOF CURB TIED INTO STRUCTURAL STEEL AND FLASHED PER ARCHITECTURAL SPECIFICATIONS. PROVIDE STAINLESS STEEL DRAIN PAN. 3. IF BLDG HAS NO FIRE ALARM, ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN UNIT AND ACTIVATE BOTH AUDIO AND VISUAL ALARMS.																			

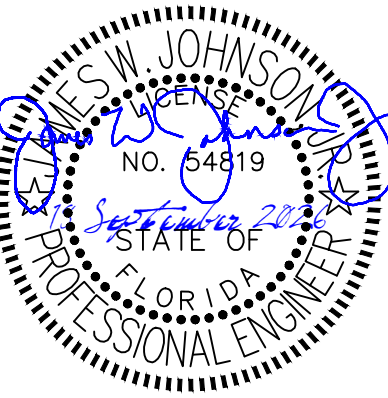
MECHANICAL LEGEND	
MARK	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
HP	HEAT PUMP
RTU	ROOFTOP UNIT
SD	SUPPLY CEILING DIFFUSER (TITUS TDCA-AA)
RG	RETURN GRILLE (TITUS 350FL)
TG	TRANSFER GRILLE (TITUS 350FL)
DG	DOOR GRILLE (TITUS CT-700L)
OA	OUTSIDE AIR
→	SUPPLY AIR
↔	AUTOMATIC DAMPER (24 VOLT)
↔	RETURN OR EXHAUST AIR
①	THERMOSTAT/SENSOR
Ⓢ	SMOKE DETECTOR
FD	FIRE DAMPER
↔	TURNING VANES IN DUCT
↔	MANUAL VOLUME DAMPER
⊠	SUPPLY DIFFUSER (TITUS TDCA-AA)
⊠	SUPPLY OR OUTSIDE AIR DUCT IN SECTION
⋯	EXISTING DUCTWORK
↔	SUPPLY AIR DUCTWORK
↔	EXHAUST AIR DUCTWORK
↔	RETURN AIR DUCTWORK
↔	OUTSIDE AIR DUCTWORK
⊠	RETURN REGISTER (TITUS 25FL)

90 WRM CIRCLE, UNIT 5
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850.270.8517
FL# AR100031

project number: **26034**

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OFFICE

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SANDESTIN, FL 32500

drawing name:
MECHANICAL
NOTES, LEGEND, &
SCHEDULES

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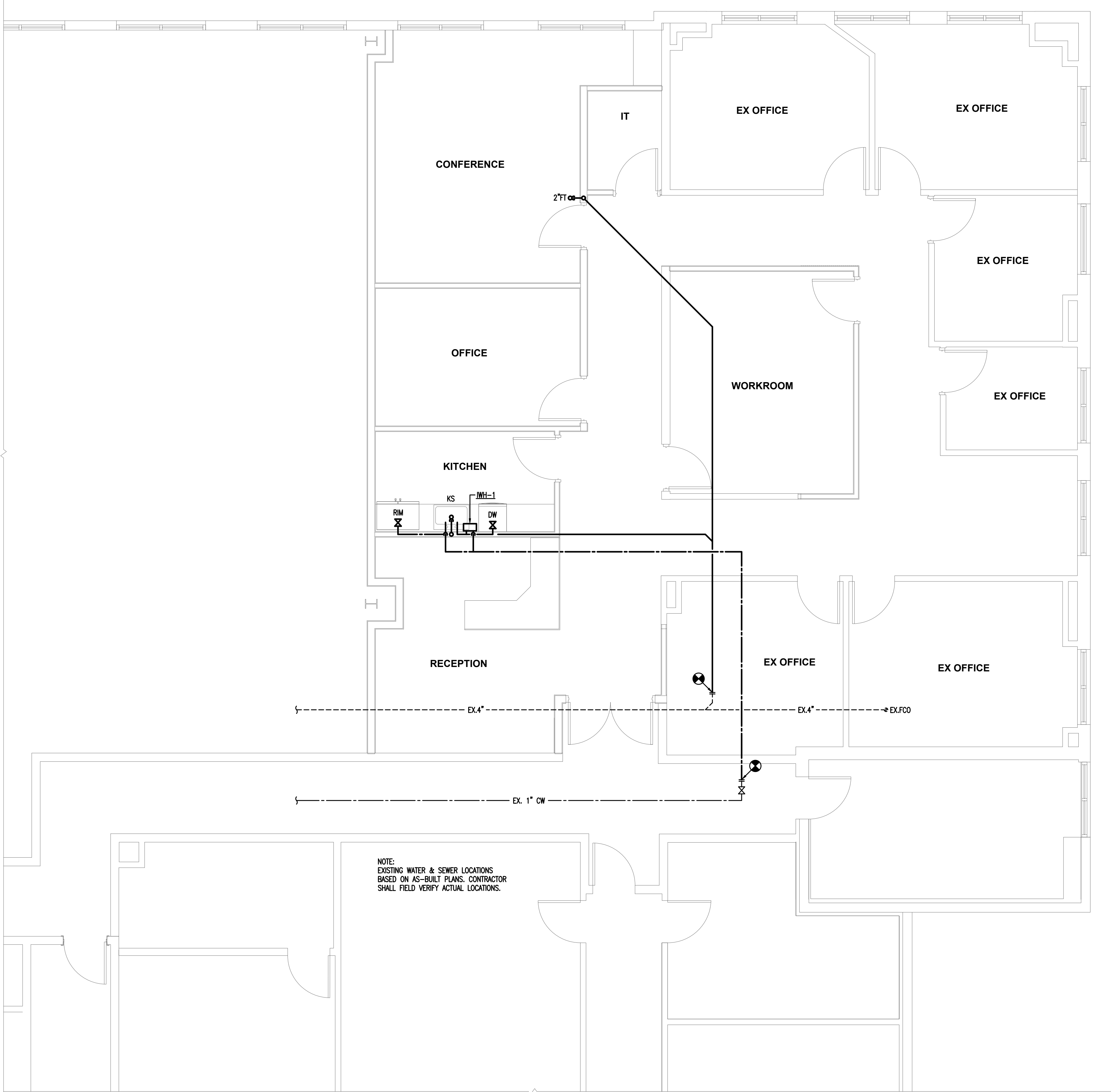
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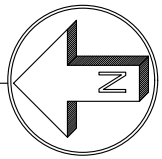
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JPE Job Number: 2653



PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



- GENERAL PLUMBING NOTES**
1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
 2. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCE WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
 3. ROUGH-INS SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. IF UNSATISFACTORY CONDITIONS EXIST, NOTIFY THE ARCHITECT IMMEDIATELY.
 4. THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACE(S) PROVIDED. NOTIFY THE ARCHITECT OF ALL NECESSARY DEVIATIONS.
 5. IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME. WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
 6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
 7. ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE CISP 310-78 STANDARD WEIGHT WITH SPIGOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CISP 310 STAINLESS STEEL SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2665 WHERE ALLOWED BY CODE.
 8. ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE ROOFING MATERIAL AND COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
 9. PROVIDE CLEANOUTS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUTS SHALL BE IN ACCESSIBLE LOCATIONS.
 10. INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4" THICK FLEXIBLE CLOSED-CELL POLYETHYLENE INSULATION. SEAL ALL JOINTS AND SEAMS AND INSULATE FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 11. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
 12. INSTALL SHOCK ABSORBERS VERTICALLY AT EACH FIXTURE. OFFSET AS NEEDED TO GAIN A MINIMUM HEIGHT OF 18". ALL SHOCK ABSORBERS SHALL BE A MINIMUM OF ONE PIPE SIZE LARGER THAN THE BRANCH BEING SERVED.
 13. PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS IN FINISHED AREAS AND UNDER LAVATORIES. PROVIDE STOPS AND TRAPS FOR ALL FIXTURES. LEAK TEST WATER PIPING, FOR NOT LESS THAN 90 MINUTES AT 100 PSL. FILL SANITARY SEWER SYSTEM TO A MINIMUM HEIGHT OF TEN FEET AND LET STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE. AFTER PRESSURE TESTS HAVE BEEN MADE, THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED, AND STERILIZE. THE STERILIZING MATERIAL SHALL BE EITHER LIQUID CHLORINE CONFORMING THE FED. SPEC. BB-C-120, OR HYPOCHLORITE CONFORMING TO FED. SPEC. O-C-114, OR FED. SPEC. O-S-602M. THE CHLORINATING AGENT SHALL PROVIDE A MINIMUM DOSAGE OF 50 PPM AND SHALL BE RETAINED IN THE SYSTEM FOR 90 MIN. THE SYSTEM WILL THEN BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS REDUCED TO LESS THAN 1.0 PPM. HAVE THREE STATE-APPROVED INDEPENDENT TESTING FACILITIES TAKE SAMPLES AND DELIVER CERTIFICATES OF APPROVAL TO THE OWNER. ANY NEGATIVE RESULTS MUST BE INVESTIGATED, AND IF NECESSARY CORRECTED, BEFORE THE BUILDING MAY BE ACCEPTED.

PLUMBING FIXTURE SCHEDULE				
MARK	FIXTURE	SANITARY	C.W.	H.W.
RIM	REFRIGERATOR ICE MAKER CONNECTION	-	1/2"	-
KS	KITCHEN SINK	1 1/2"	1/2"	1/2"
DW	DISHWASHER CONNECTION	KS	-	1/2"
FT	FUNNEL TRAP	2"	-	-
IWH-1	INSTANTANEOUS WATER HEATER, EQUAL TO ACCUMIX II AM10277T, 10.0 KW, 36 AMPS, 0.3 GPM TURN ON, 46°F RISE AT 1.5 GPM, 277V/1φ			

PLUMBING LEGEND	
	SOIL OR WASTE LINE
	VENT
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER RETURN (HWR)
	GATE VALVE
	SHOCK ABSORBER
	TIE NEW INTO EXISTING

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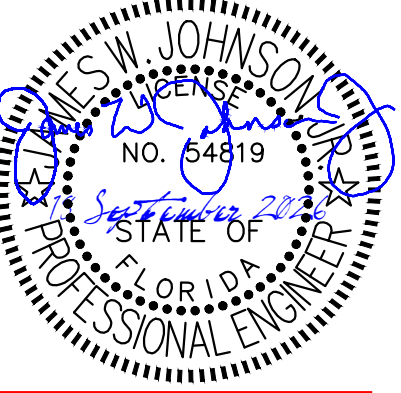
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850.270.8517
FL# AR100031

project number: **26034**

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PLUMBING FLOOR
PLAN, NOTES,
LEGEND, &
SCHEDULE

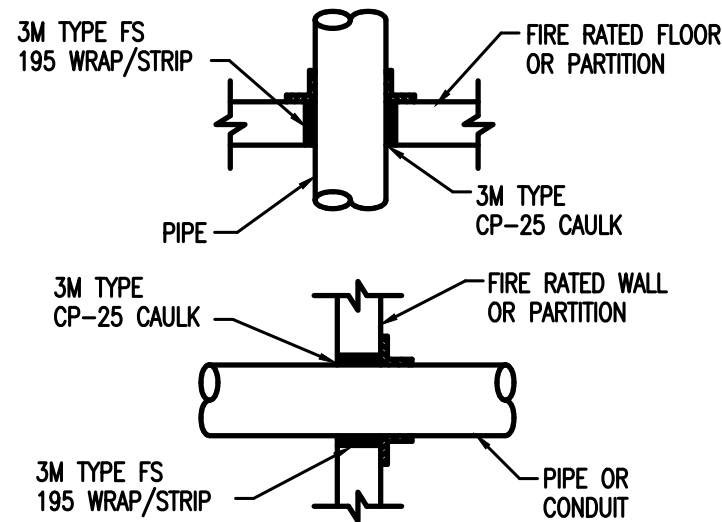
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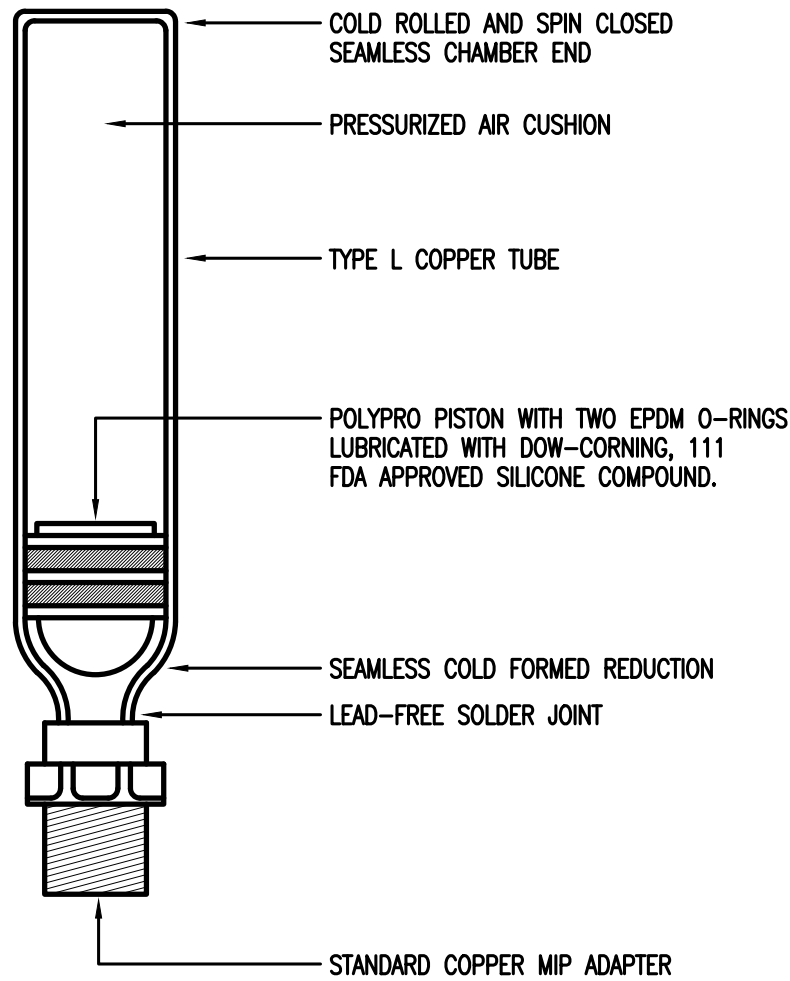
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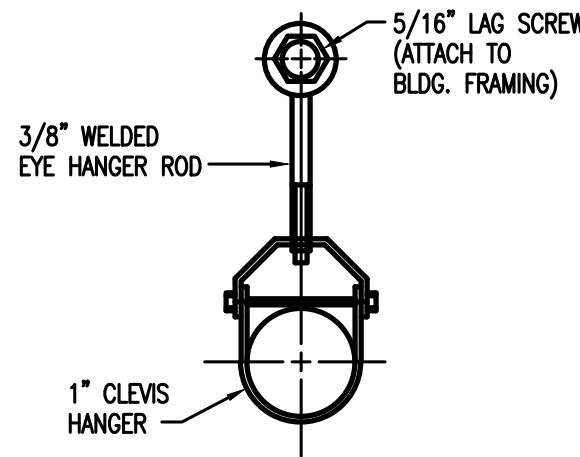


NOTE:
ALL FIRE STOPPING MATERIAL TO COMPLY
WITH STANDARD BUILDING CODE SECTION
705, ASTM E119 REQUIREMENTS.

FIRE STOPPING OF
PIPING PENETRATIONS
NO SCALE

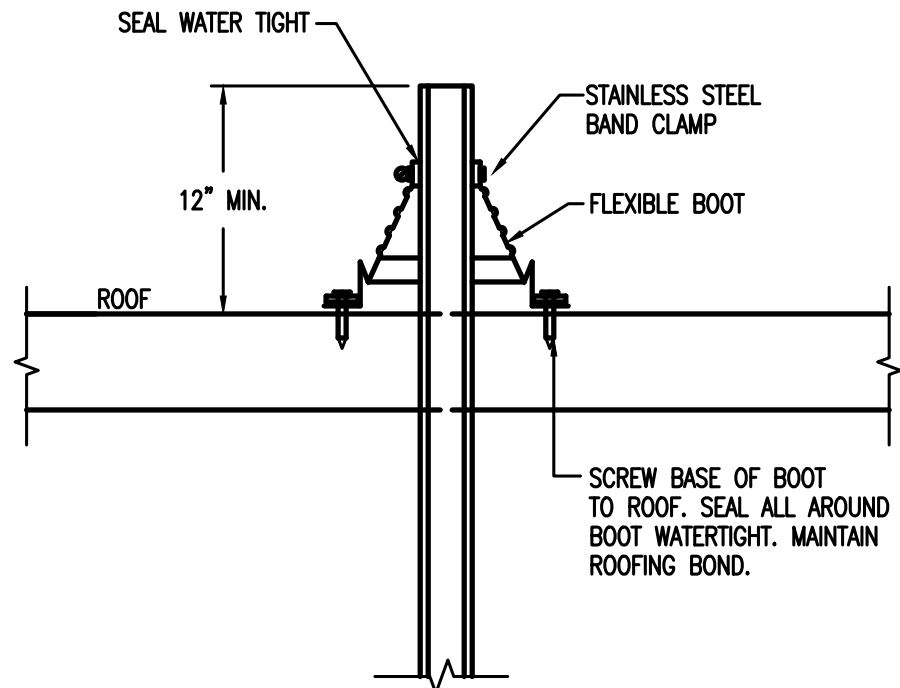


WATER HAMMER ARRESTER
NOT TO SCALE

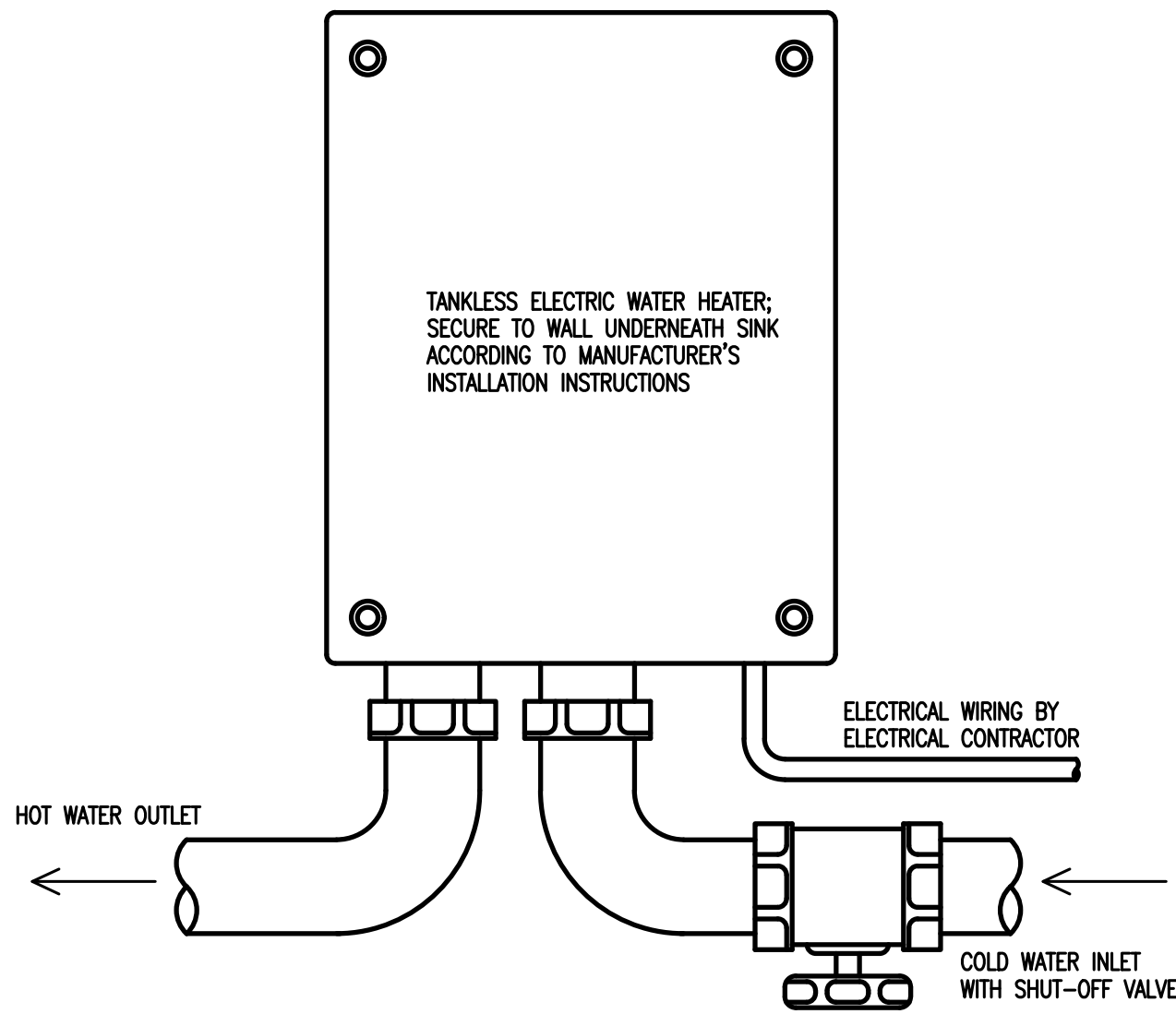


HANGER DETAIL (TYPICAL)
NO SCALE

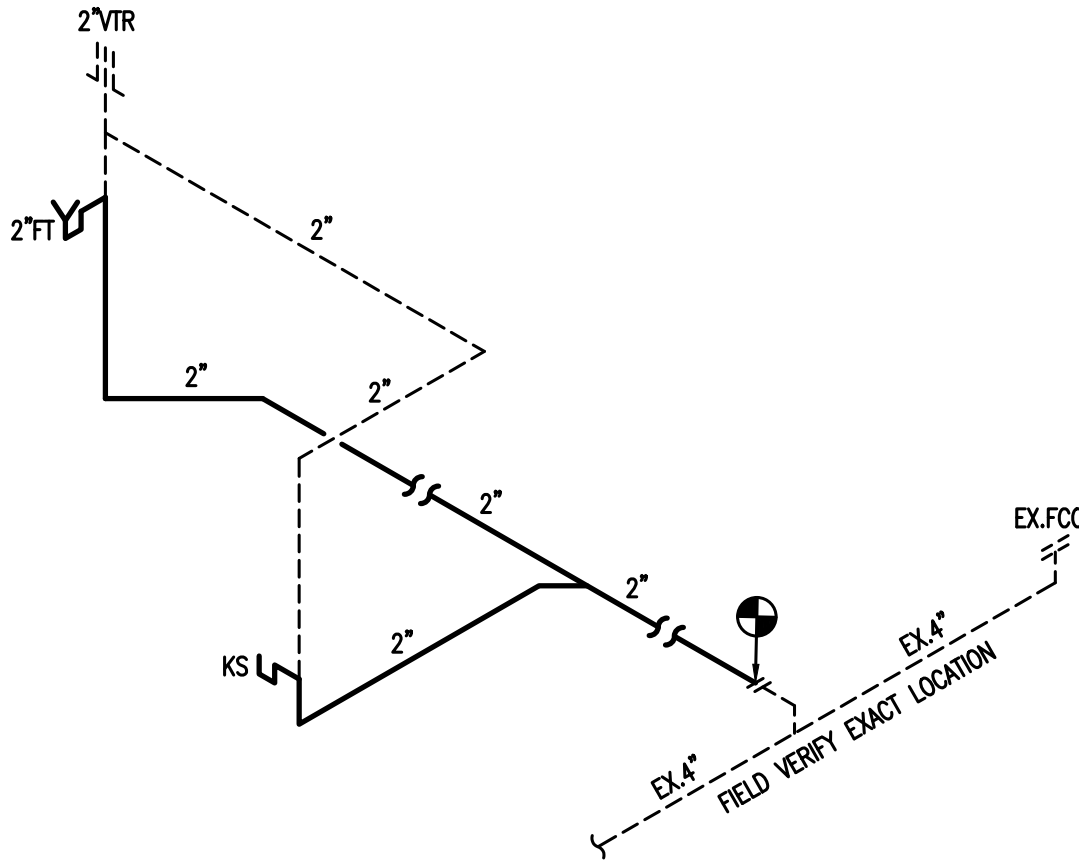
NOTE: USE APPROPRIATE HANGER AS
APPROVED IN NFPA-13-A-3-15-1.



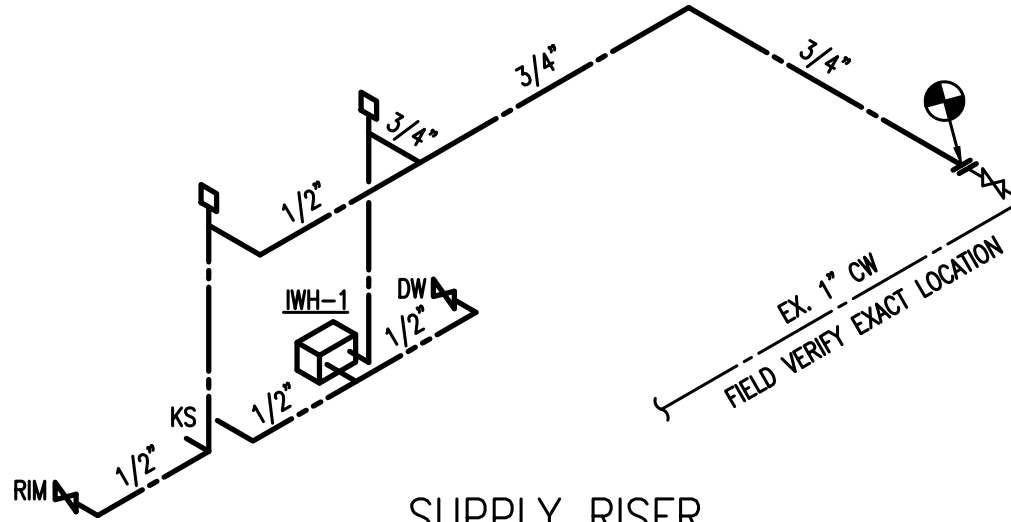
VENT THROUGH ROOF DETAIL
NOT TO SCALE



TANKLESS ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



WASTE & VENT RISER
NO SCALE



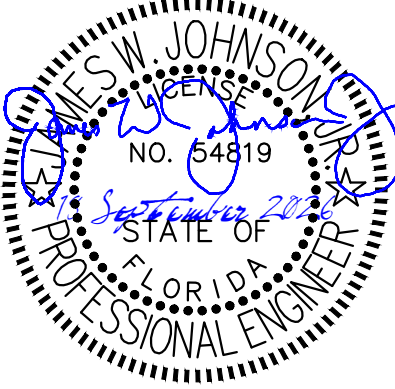
SUPPLY RISER
NO SCALE

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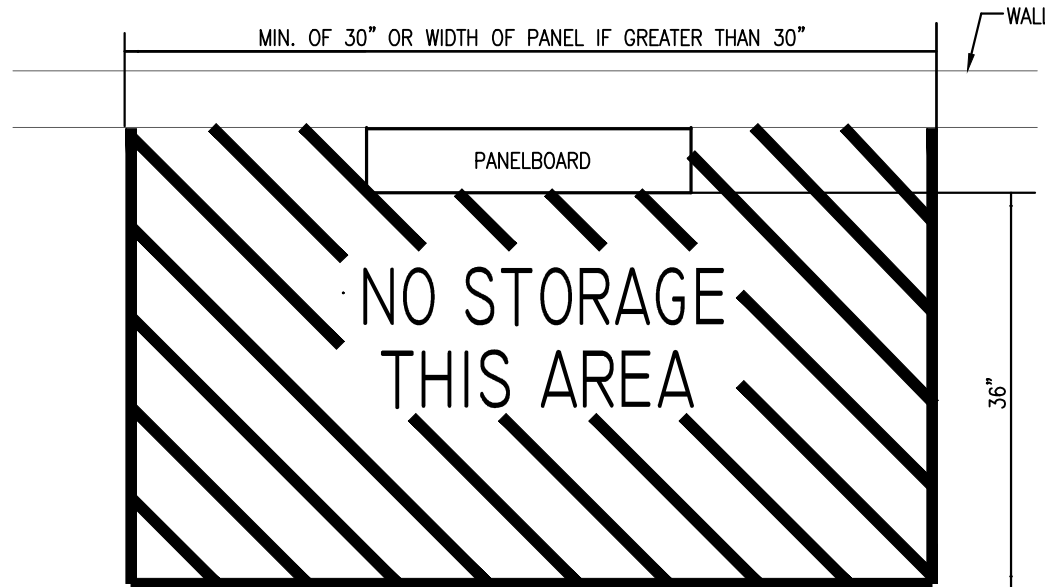
ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO 'AV' DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'AV' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC 8TH EDITION. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
11. OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2020 ART. 110.14 & TABLE 310.15(B)(16).
13. WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

FIRESTOPPING NOTES:

USE ONLY FIRESTOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE RATED CONSTRUCTION CONDITIONS. THE CONDITIONS AND MATERIALS ARE SPECIFIED AS FOLLOWS:

1. FOR PENETRATIONS BY NON COMBUSTIBLE ITEMS USE 3M FIRE STOP SEALANT 2000 OR 3M FIRE BARRIER MOLDABLE PUDDY PADS MPP+.
2. FOR FIRE RATED CONSTRUCTION JOINTS AND OTHER GAPS USE 3M FIRESTOP SEALANT 2000.
3. FOR PENETRATIONS BY COMBUSTIBLE ITEMS USE 3M FIRE BARRIER CP25 WB OR 3M FIRE BARRIER FS 195 WRAP/STRIP.
4. FOR PENETRATIONS BY COMBUSTIBLE PLASTIC PIPE (OPEN PIPING SYSTEMS) USE 3M FIRE BARRIER PPO PLASTIC PIPE DEVICE.
5. FOR LARGE SIZE/COMPLEX PENETRATIONS USE 3M FIRESTOP FOAM 2001 OR 3M FIRE BARRIER CS 195 COMPOSITE SHEET.
6. FOR OPENINGS BETWEEN STRUCTURALLY SEPARATE SECTIONS OF WALL AND FLOORS USE 3M FIRE BARRIER CP 25 WB.

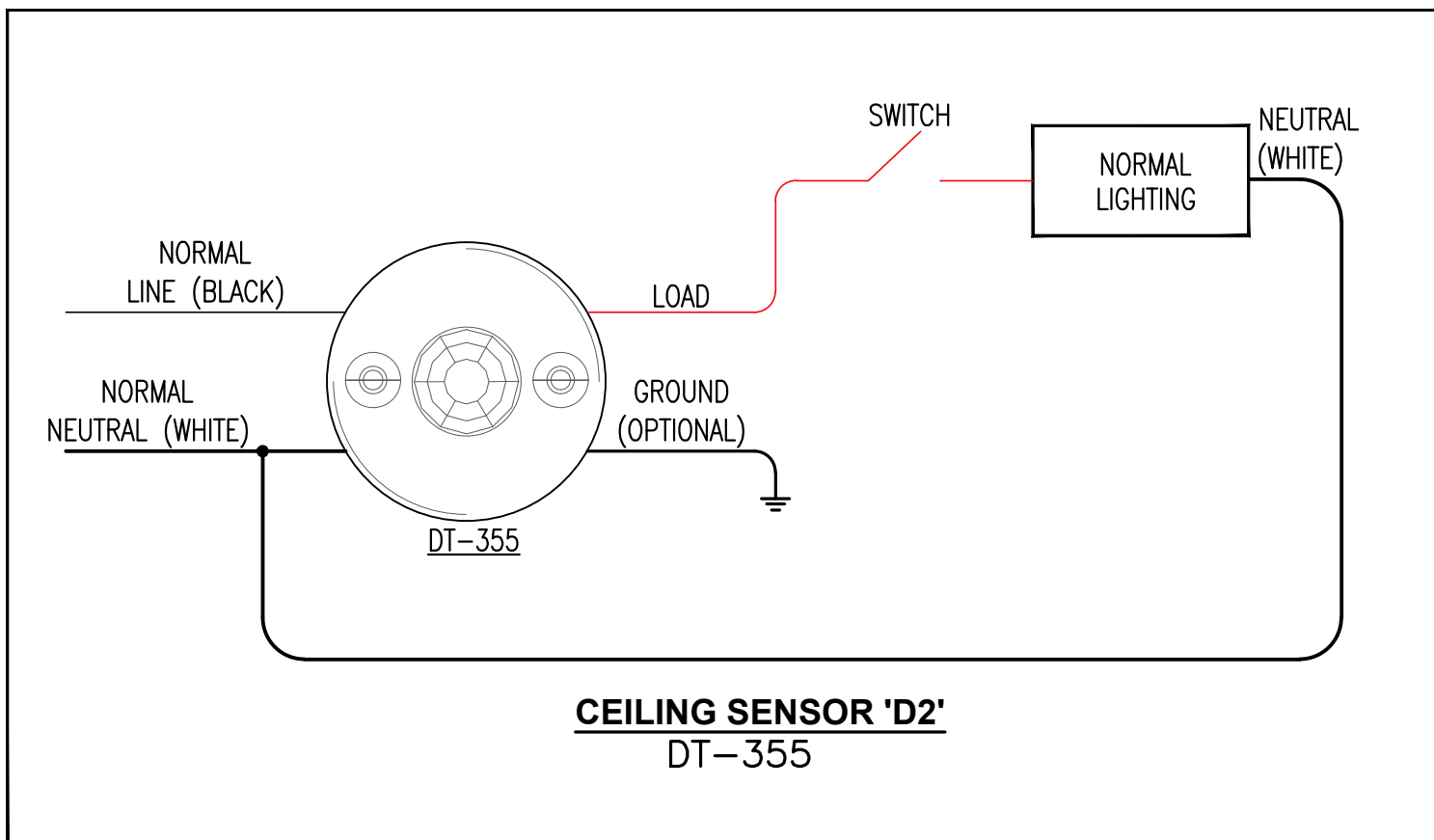


TYPICAL CLEARANCE AT ELECTRICAL PANELS
NOT TO SCALE

SPECIALTY FIXTURES ARE TO BE 'AS-SPECIFIED'. FOR GENERIC FIXTURES, EQUALS TO BE SUBMITTED TO ARCHITECT/ENGINEER A MINIMUM OF 10 DAYS PRIOR TO BID.

LIGHTING FIXTURE SCHEDULE

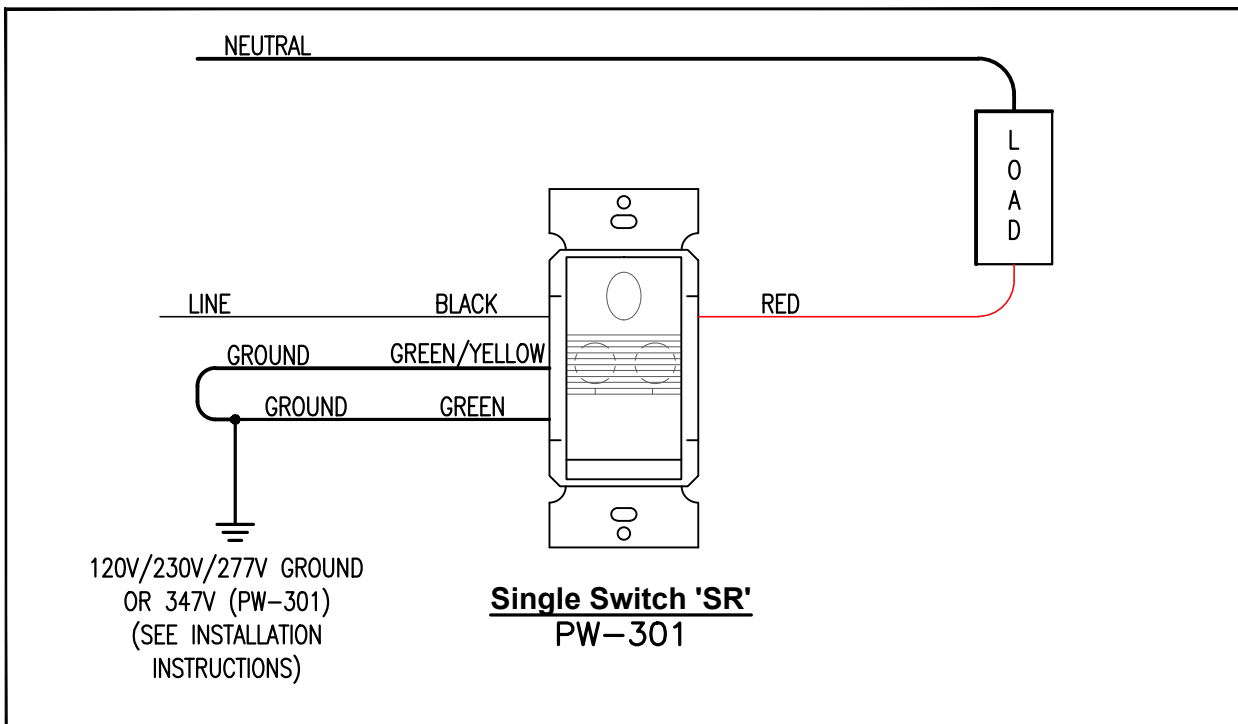
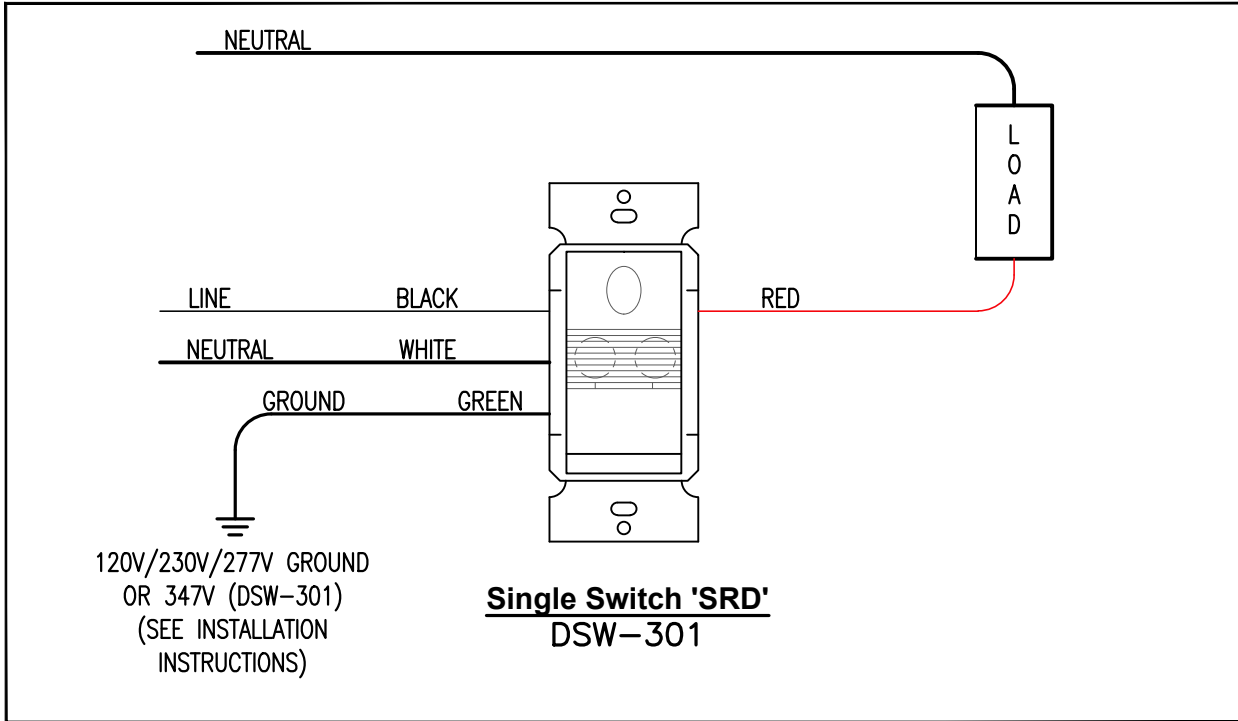
MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
BP	CHLORIDE CLUNW (WHITE)	2	1.5 W LED	WALL @ 7'-6" AFF	120V
BPX	CHLORIDE CLCNRW (WHITE)	--	LED	WALL @ 7'-6" AFF	BATTERY PACK/EXIT SIGN COMBO, SELF DIAGNOSTICS, 120V
BPXA	CHLORIDE CLCNRW (WHITE)	--	LED	WALL @ 7'-6" AFF	BATTERY PACK/EXIT SIGN COMBO, SELF DIAGNOSTICS, 120V, USE PUNCH-OUTS TO SHOW DIRECTIONAL ARROWS AS DENOTED ON DRAWING(S)
LD4A	H.E. WILLIAMS 4DR-TL-L15/835-DIM-UNV-OW-OF-CS-MWT-N-F1	14W	3500K LED	CEILING RECESSED	4" RECESSED DOWNLIGHT, 120V...WIDE DIST
LD4B					
LD6A	H.E. WILLIAMS 6DR-TL-L40/835-DIM-UNV-OW-OF-CS-MWT-N-F1	36W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, 120V...WIDE DIST
LD6B					
LS	H.E. WILLIAMS 75R-4-L30-840-DRV-UN-VBY	20W	3500K LED	SUSPENDED	4' HIGH OUTPUT LED STRIP, 3500K, UNV, EC TO FURNISH CHAIN, FLD-CUT FOR DESIRED HEIGHT
UC4	H.E. WILLIAMS 15F-4-L24-835-DMA-OPTIONS-DRV-UNV	21W	4000K LED	SURFACED MOUNT	2' HIGH OUTPUT UNDER-CABINET LED FIXT, 4000K, 120V



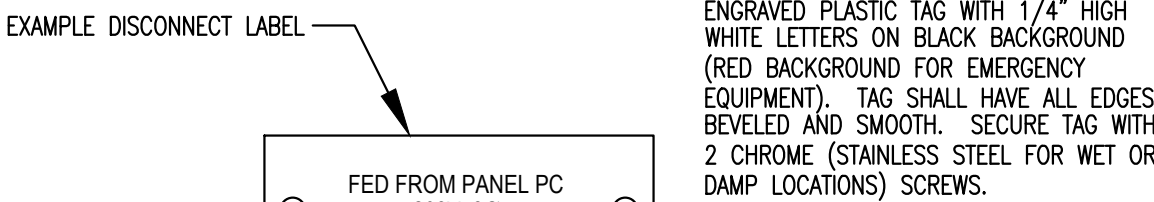
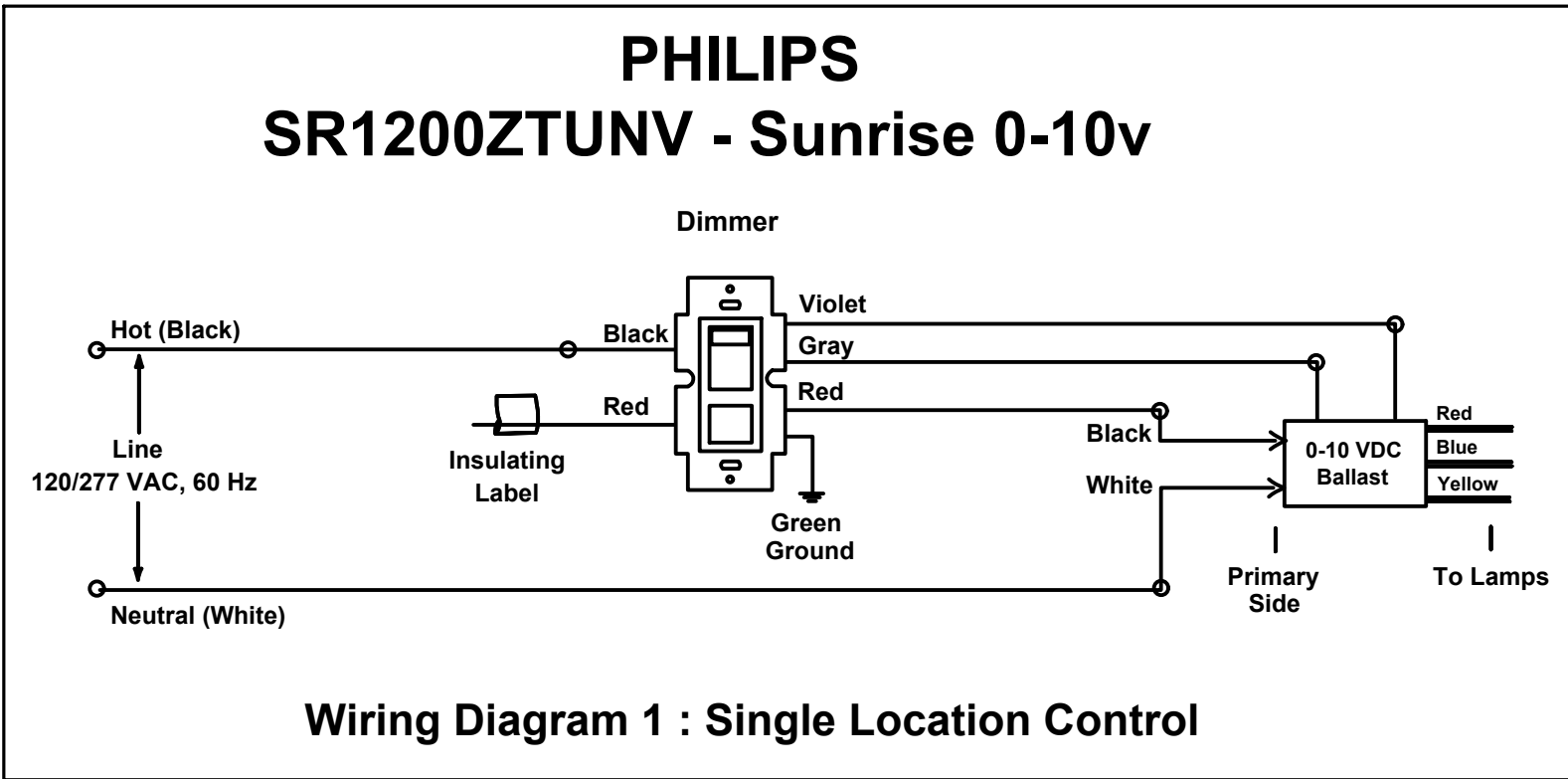
CEILING SENSOR 'D2'
DT-355

ELECTRICAL LEGEND

- CEILING OUTLETS**
- +— SURFACE MOUNTED LED STRIP FIXTURE MARK "FS" AS NOTED
 - ⊗ EXIT LIGHT
 - ⊙ JUNCTION BOX
 - RECESSED/SURFACE MOUNT LIGHT
 - NO ○ RECESSED/SURFACE MOUNT LIGHT INSTALLED FOR CONTINUOUS OPERATION
- PANELS AND POWER**
- NEW 120/208 OR 277/480 VOLT PANELBOARD
 - EXISTING 120/208 OR 277/480 VOLT PANELBOARD
 - NON-FUSIBLE DISCONNECT SWITCH: XXYYZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48\"/>**
- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT; MOUNT 48\"/>
 - S3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT; MOUNT 48\"/>
 - S4 A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT; MOUNT 48\"/>
 - SM MOTOR-RATED TOGGLE SWITCH; FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
 - SR WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATTSTOPPER PW-301; SET DELAY OFF TIME FOR 10 MINUTES (120/277V); MOUNT 48\"/>
 - SRO WALL MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER DSW-301; DUAL TECHNOLOGY; MOUNT 48\"/>
 - PHILLIPS SUNRISE 1200W ELECTRONIC WALL DIMMER (MODEL# SR1200ZTUNV); EC TO INSTALL 120V HOT/LEG (LOAD SIDE OF OCCUPANCY SENSOR SWITCH) TO DIMMING MODULE AND FROM MODULE TO FIXTURE. IN ADDITION, INSTALL A 2-WIRE (#16 AWG) DIMMING CIRCUIT FROM DIMMER MODULE TO LIGHTING FIXTURE(S) TO BE CONTROLLED. WITHIN EACH ZONE, DIMMING CIRCUIT MAY BE DAISY-CHAINED AND NOT SEPARATE RUNS FROM MODULE TO EACH FIXTURE REQUIRED. IF OTHER-THAN-SPECIFIED MANUFACTURER/FIXTURE TYPES FURNISHED, EC TO VERIFY THAT DIMMING MODULE SUPPLIED TO BE 100% COMPATIBLE WITH FIXTURES TO BE INSTALLED. MOUNT 48\"/>
- TELEPHONE & TV SYSTEM**
- ▷ WALL OUTLET - 4\"/>
 - C ▷ WALL OUTLET - 4\"/>
 - C,H ▷ WALL OUTLET - 4\"/>
 - TV TELEVISION CABLE WALL OUTLET - 4\"/>
- FIRE ALARM SYSTEM**
- ⊗ FIRE ALARM SYSTEM SIGNAL HORN/STROBE; MT 80\"/>
 - ⊗ FIRE ALARM SYSTEM STROBE; MT. 80\"/>



- AUTOMATIC LIGHTING CONTROL SYSTEM**
- ⊗ 180\"/>
 - ⊗ 360\"/>
 - [P] POWER PACK RELAY EQUAL TO WATTSTOPPER BZ-50 POWER PACK; SEE CEILING MOUNTED MOTION DETECTOR DEVICE TO BE MOUNTED ABOVE CEILING. (UNIVERSAL 100-277V)...20 AMP MAX. SWITCHING CAPABILITY
- BRANCH CIRCUITING**
- RUN CONCEALED UNDER FLOOR OR IN GRADE
 - RUN CONCEALED IN CEILING OR WALLS
 - LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND - 3/4\"/>
 - LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
 - SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- WALL OUTLETS**
- ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ DUPLEX WEATHERTIGHT/WEATHER-RESISTANT (WR) RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6\"/>
 - ⊗ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26\"/>
 - ⊗ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18\"/>
 - ⊗ 208V RECEPTACLE - MOUNT 18\"/>
 - ⊗ JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
 - ⊗ SURFACE-MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED); SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED
 - ⊗ WALL MOUNTED EXIT LIGHT
 - ⊗ WALL MOUNTED LED FIXTURE
 - ⊗ WALL MOUNTED EMERGENCY UNIT BATTERY PACK
 - ⊗ WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE
 - ⊗ SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)
- MISCELLANEOUS**
- A.F.F. ABOVE FINISH FLOOR
 - B.F.C. BELOW FINISHED CEILING
 - e EXISTING
 - IG ISOLATED GROUND
 - CSB COMMUNICATION BACKBOARD
 - FACP FIRE ALARM CONTROL PANEL



TYPICAL DISCONNECT LABELING DETAIL

NOT TO SCALE



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LA PE #-44721/MS PE #-19437/AR PE #-13461
KY PE #-34138/KC PE #-040692
TN PE #-116862/TX PE #-117971

SOUTHERN
lines
DESIGN

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459

850.270.8517
FL# AR100031

project number: **26034**

REVISION SCHEDULE

REV.	DESC.	DATE
#		

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32550

drawing name:
GENERAL NOTES,
LEGENDS, SCHEDULES
AND DETAILS

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date:
09/18/2026

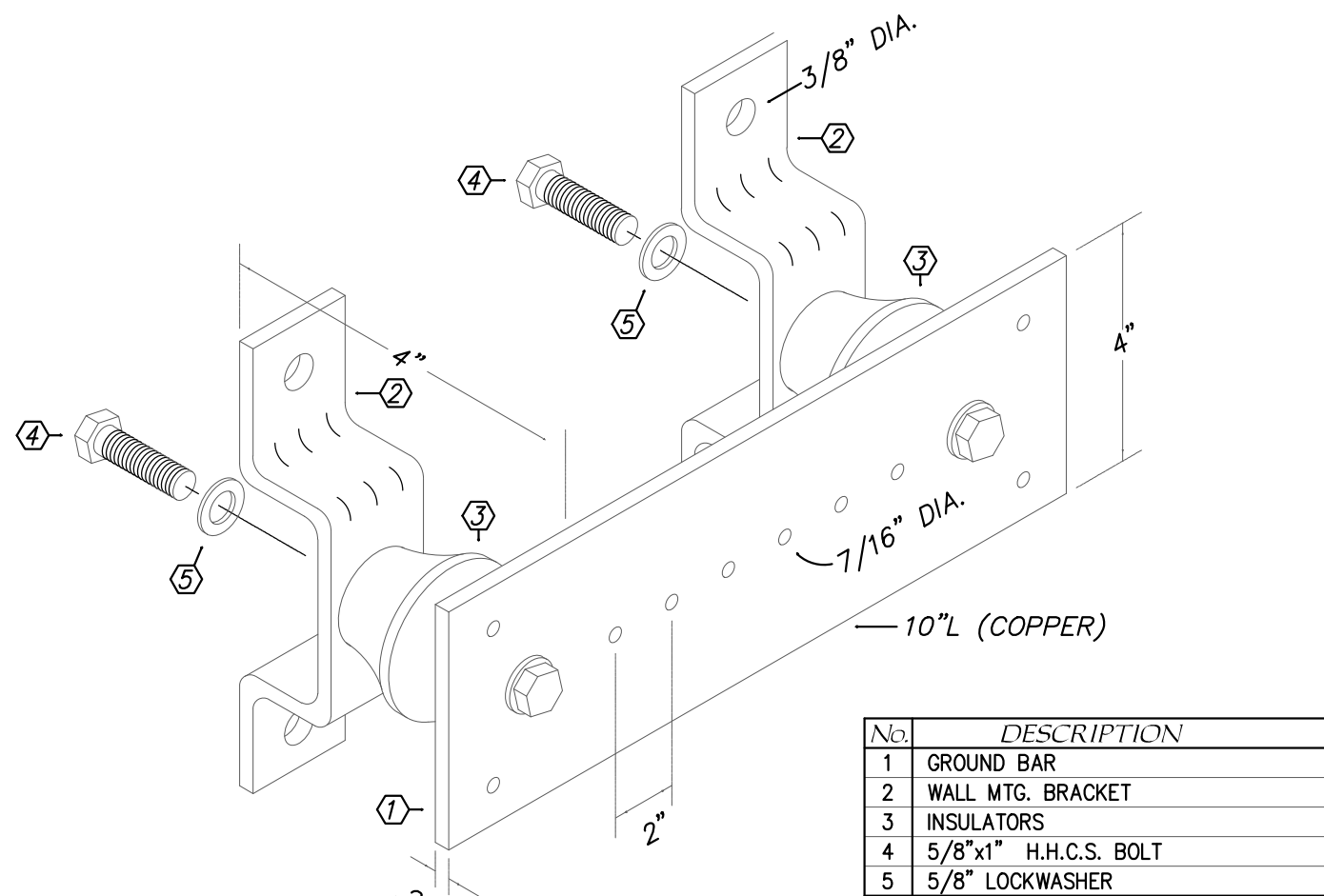
drawing phase:
SCHEMATIC
DESIGN

drawing number:

E0.1

EATON POW-R-LINE TYPE 'PRL2a'										SURFACE MOUNTED NEMA 1 ENCLOSURE	
277/480 VOLT 3Ø 4W 400 AMP MAIN BREAKER											
CIRCUIT BREAKER PANEL SCHEDULE EXISTING PANEL 'MDP'											
CKT	LOAD DESCRIPTION		BREAKER POLE AMP		LOAD KVA	BREAKER AMP POLE		LOAD DESCRIPTION		CKT	
1	↑		↑		--	--	20 1	EXISTING		2	
3	EXISTING		↓	60	--	--	20 1	EXISTING		4	
5	↑		↓		--	--	20 1	EXISTING		6	
7	↑		↓		--	--	20 1	EXISTING		8	
9	EXISTING		↓	40	--	--	20 1	EXISTING		10	
11	↓		↓		--	--	20 2	EXISTING		12	
13	↓		↓				↓	↓		14	
15	EXISTING		↓		--	--	20 1	EXISTING		16	
17	↑		↓	40	--	--	20 1	EXISTING		18	
19	↑		↓				↑	↑		20	
21	EXISTING		↓		--	--	30 3	EXISTING		22	
23	↓		↓		--	--	↓	↓		24	
25	↓		↓		--	--	20 2	EXISTING		26	
27	EXISTING		↓	30	--	--	↓	↓		28	
29	↓		↓				↓	↓		30	
31	(SPACE)	IWH-1	↓				↓	↓		32	
33	(SPACE)	↑	↓	50	10.0	--	30 3	EXISTING		34	
35	(SPACE)	RTU-5	↓			--	↓	↓		36	
37	(SPACE)	↓	↓	50	32.6	--	1	SPACE		38	
39	SPACE	↓	↓			--	1	SPACE		40	
41	SPACE	↓	↓	1	--	--	1	SPACE		42	
43	↑		↑								
45	EXISTING PANEL 'LP1' & 'LP2' VIA XFMR		↓	150	--						
47	↓		↓		--						
TOTAL CONNECTED LOAD: 144.59 KVA MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL											
① FURNISH/INSTALL NEW HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED											

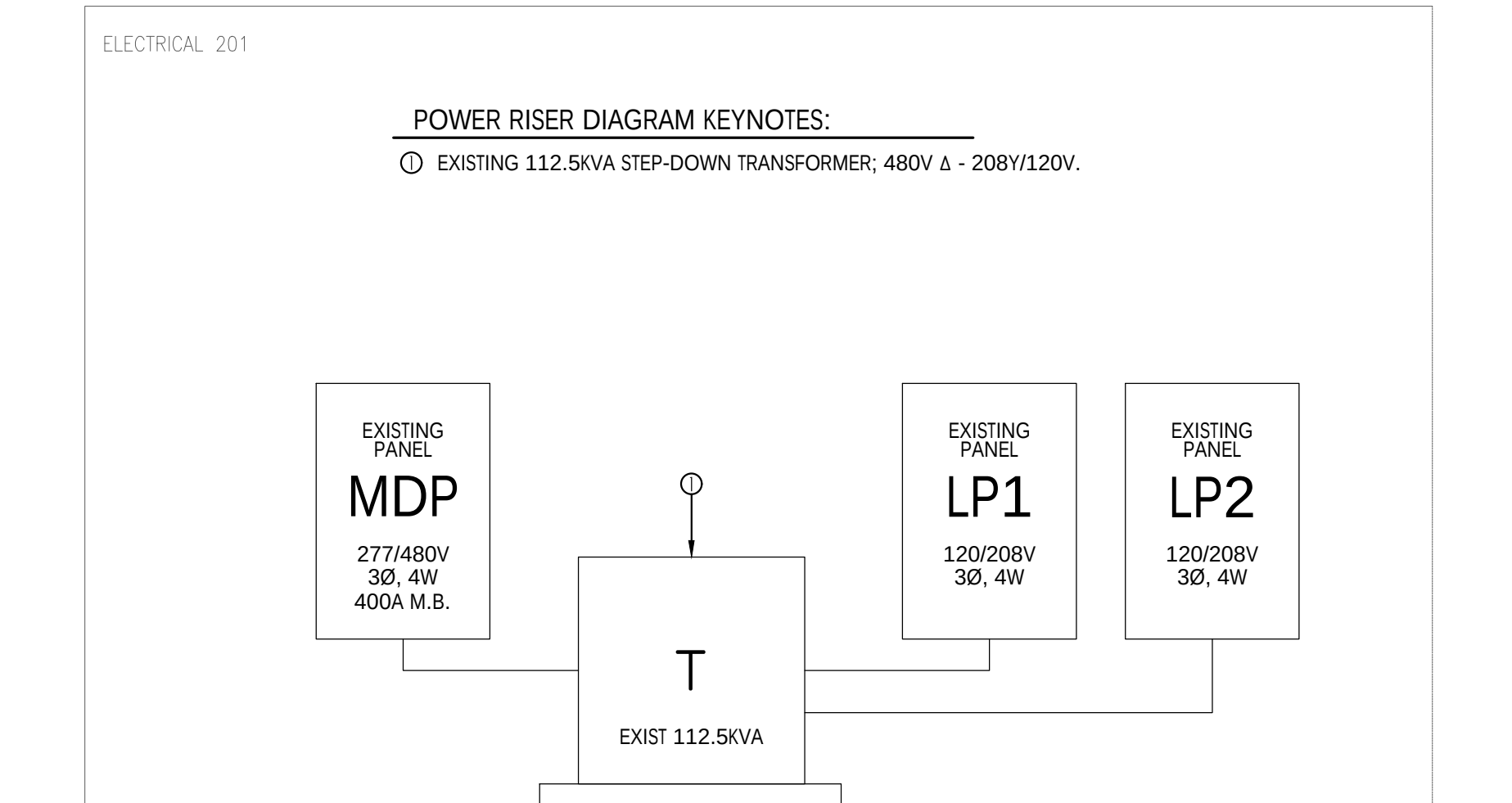
EATON POW-R-LINE TYPE 'PRL1a'										SURFACE MOUNTED NEMA 1 ENCLOSURE	
120/208 VOLT 3Ø 4W 250 AMP MAIN BREAKER BKR ADJUSTED TO 150A											
CIRCUIT BREAKER PANEL SCHEDULE EXISTING PANEL 'LP1'											
CKT	LOAD DESCRIPTION		BREAKER POLE AMP		LOAD KVA		BREAKER AMP POLE		LOAD DESCRIPTION		CKT
1	EXISTING		1	20	-	-	20	1	EXISTING		2
3	EXISTING		1	20	-	-	20	1	EXISTING		4
5	EXISTING		1	20	-	-	20	1	EXISTING		6
7	EXISTING		1	20	-	-	20	1	EXISTING		8
9	EXISTING		1	20	-	-	20	1	EXISTING		10
11	EXISTING		1	20	-	-	20	1	EXISTING		12
13	EXISTING		1	30	-	-	20	1	EXISTING		14
15	EXISTING		1	30	-	-	20	1	EXISTING		16
17	EXISTING		1	20	-	-	20	1	EXISTING		18
19	EXISTING		1	20	-	-	20	1	EXISTING		20
21	EXISTING		1	20	-	-	20	1	EXISTING		22
23	EXISTING		1	20	-	-	20	1	EXISTING		24
25	EXISTING		1	20	-	-	20	1	EXISTING		26
27	EXISTING		1	20	-	-	20	1	EXISTING		28
29	EXISTING		1	20	-	-	20	1	EXISTING		30
31	EXISTING		1	20	-	-	20	1	EXISTING		32
33	EXISTING		1	20	-	-	20	1	EXISTING		34
35	EXISTING		1	20	-	-	20	1	EXISTING		36
37	EXISTING		1	20	-	-	20	1	EXISTING		38
39	EXISTING		1	20	-	-	20	1	EXISTING		40
41	EXISTING		1	20	-	-	15	1	EXISTING		42
TOTAL CONNECTED LOAD: 144.59 KVA MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL											



'CBB' INSULATED GROUNDING BUSBAR DETAIL

NOT TO SCALE

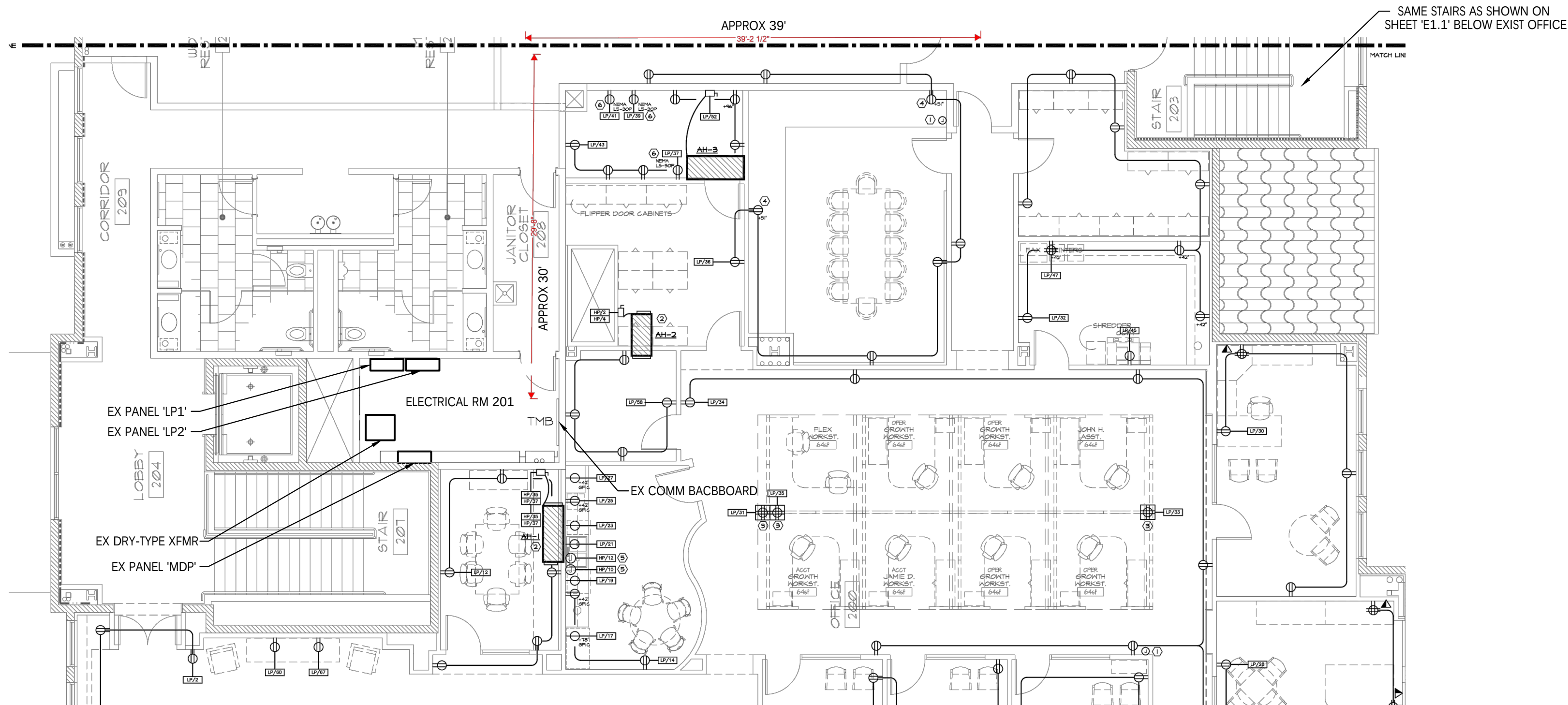
- GROUND BAR NOTES:
1. INSTALL ONE BAR AT EACH COMMUNICATIONS BACKBOARD.
 2. ROUTE 1#2 BARE CU IN 1\"C. TO EXISTING 'TMB' IN 'ELECTRICAL RM 201' ON 2ND FLOOR.



POWER RISER DIAGRAM

N.T.S.

EATON POW-R-LINE TYPE 'PRL1a'										SURFACE MOUNTED NEMA 1 ENCLOSURE	
120/208 VOLT 3Ø 4W 250 AMP MAIN BREAKER BKR ADJUSTED TO 150A											
CIRCUIT BREAKER PANEL SCHEDULE EXISTING PANEL 'LP2'											
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT		
		POLE	AMP			AMP	POLE				
1	SPARE	1	20	-	-	20	1	EXISTING	2		
3	EXISTING	1	20	-	-	20	1	EXISTING	4		
5	EXISTING	1	20	-	-	20	1	EXISTING	6		
7	EXISTING	2	20	-	-	20	1	EXISTING	8		
9	↓	↓	↓	↓	↓	20	1	EXISTING	10		
11	(SPARE) CBB	1	20	0.72	0.72	20	1	(SPARE) DISHWASHER	12		
13	EXISTING	2	30	-	-	60	2	EXISTING	14		
15	↓	↓	↓	↓	↓	↓	↓	↓	16		
17	EXISTING	2	40	-	-	50	2	EXISTING	18		
19	↓	↓	↓	↓	↓	↓	↓	↓	20		
21	EXISTING	2	30	-	-	50	2	EXISTING	22		
23	↓	↓	↓	↓	↓	↓	↓	↓	24		
25	EXISTING	2	20	-	-	20	1	EXISTING	26		
27	↓	↓	↓	↓	↓	20	1	EXISTING	28		
29	EXISTING	2	20	-	0.72	20	1	(SPARE) REFRIGERATOR	30		
31	↓	↓	↓	2.66	(0.12) 2.66	(1) 2	↓	HP-2	32		
33	SPARE	1	20	-	-	50	2	(SPARE)	34		
35	EXISTING	1	20	-	-	50	2	EXISTING	36		
37	EXISTING	2	25	-	-	30	2	EXISTING	38		
39	↓	↓	↓	↓	↓	↓	↓	↓	40		
41	(SPACE) REC-	1	20	-	-	30	2	EXISTING	42		
① FURNISH/INSTALL NEW HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED ② FURNISH NEW BREAKER											
TOTAL CONNECTED LOAD: 144.59 KVA MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL											



OVERALL PLAN

N.T.S.



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SOUTHERN
lines
DESIGN

90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459

850.270.8517
FL# ARI00031

project number: **26034**

REVISION SCHEDULE	
REV. #	DESCRIPTION
1	GROUND BAR
2	WALL MTG. BRACKET
3	INSULATORS
4	5/8"x1" H.H.C.S. BOLT
5	5/8" LOCKWASHER

drawing name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
PANEL SCHEDULE AND
POWER RISER DIAGRAM

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date:
09/18/2026

drawing phase:
SCHEMATIC
DESIGN

drawing number:

E0.2

- KEYNOTES
- 1

PRIOR TO ROUGH-IN, EC TO FIELD-VERIFY EXACT LOCATION/HEIGHT OF DEVICES FOR TV WITH GC.

2

TO ALLOW FUTURE ACCESS, INSTALL RECEPTACLE FOR DISHWASHER IN ADJACENT CABINET BELOW SINK. COORDINATE WITH PLUMBING CONTRACTOR TO AVOID CONFLICT WITH THE 'WH-1' (INSTANTANEOUS WATER HEATER).

3

INSTALL 2#8,1#10GND IN 3/4"C. BACK TO PANEL 'MDP' IN 'ELECTRICAL RM 201'.

4

INSTALL 3#8,1#10GND IN 3/4"C BACK TO PANEL 'MDP' IN 'ELECTRICAL RM 201'.

5

EC TO FIELD-COORDINATE THE EXACT MOUNTING OF THE DISCONNECT. IF DISCONNECT IS TO BE MOUNTED ON THE UNIT, VERIFY WITH THE MECHANICAL CONTRACTOR SO THAT THE DEVICE DOES NOT INTERFERE WITH THE MANUFACTURER'S WARRANTY.

6

EC TO FIELD-VERIFY IF THERE IS AN EXISTING 120V GFCI RECEPTACLE WITHIN 25' OF NEW EQUIPMENT TO MEET NEC REQUIREMENTS FOR SERVICING/MAINTENANCE. IF NONE LOCATED, INSTALL NEW GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT BELOW AHEAD OF LOCAL SWITCH. FIELD-COORDINATE EXACT METHOD OF MOUNTING.

7

INSTALL 2#10,1#10GND IN 3/4"C TO PANEL 'LP2' TO PANEL 'LP2' IN 'ELECTRICAL RM 201'.

8

INSTALL 2#12,1#12GND IN 3/4"C TO 'HP2' ON ROOF.

9

PER ORIGINAL AS-BUILT DRAWINGS, THERE ARE FOUR (4) CIRCUITS IN PANELS 'LP1' & 'LP2' THAT WILL BE PART OF THE DEMOLITION PHASE. EC TO FIELD-VERIFY THESE CIRCUITS AND USE FOR NEW HOMERUNS SHOWN.

10

EC SHALL INSTALL 2-GANG FLOOR BOX WITH TELE/DATA, HDMI, & ONE (1) DUPLEX RECEPTACLE. FURNISH WITH BRASS COVERPLATE AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION. PRIOR TO ROUGH-IN, VERIFY EXACT LOCATION OF FLOOR BOX WITH GC/OWNER. COORDINATE W GC FOR REQUIRED CORE-DRILLING. CONNECT RECEPTACLE TO DEVICE IN ADJACENT WALL.

11

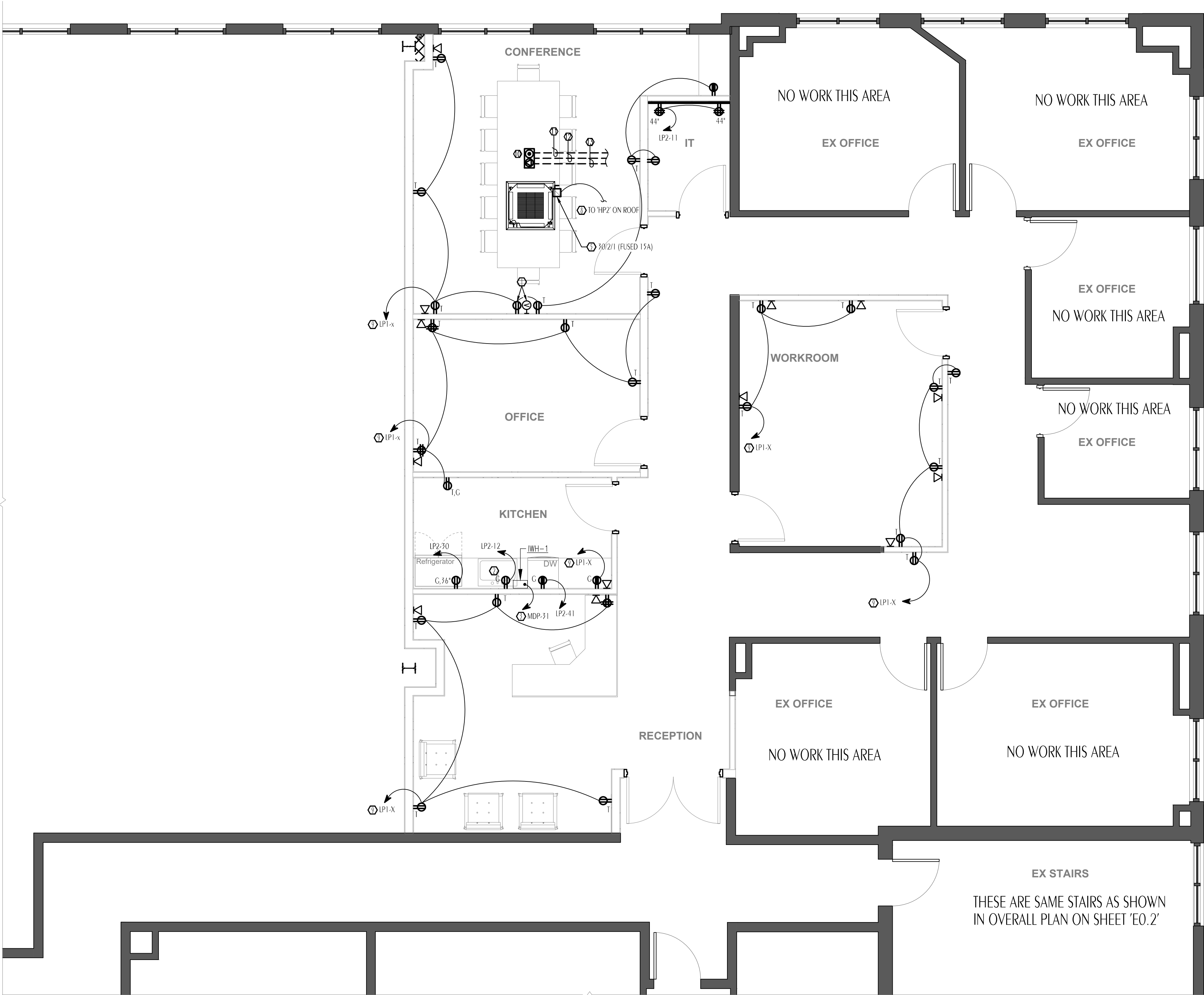
FOR EACH CIRCUIT, INSTALL 2#12, 1#12GND IN 1"C.

12

EC SHALL INSTALL ONE (1) 1"C (W/PULLSTRING) FOR TELE/DATA CABLING. CONDUIT TO BE ROUTED TO ADJACENT WALL AND TERMINATED IN ACCESSIBLE LOCATION ABOVE CEILING. INSTALL ONE (1) CAT6E CABLE FROM FLOORBOX TO 'CBB' CABLE TO BE LABELED ON EACH END FOR IDENTIFICATION. COMMUNICATIONS CONTRACTOR TO PROVIDE COVERPLATES, INSERTS, ETC.

13

EC SHALL INSTALL ONE (1) 1-1/4" CONDUIT (W/PULLSTRING) FROM JUNCTION BOX LOCATED BEHIND TV TO ADJACENT FLOORBOX FOR HDMI CABLING.

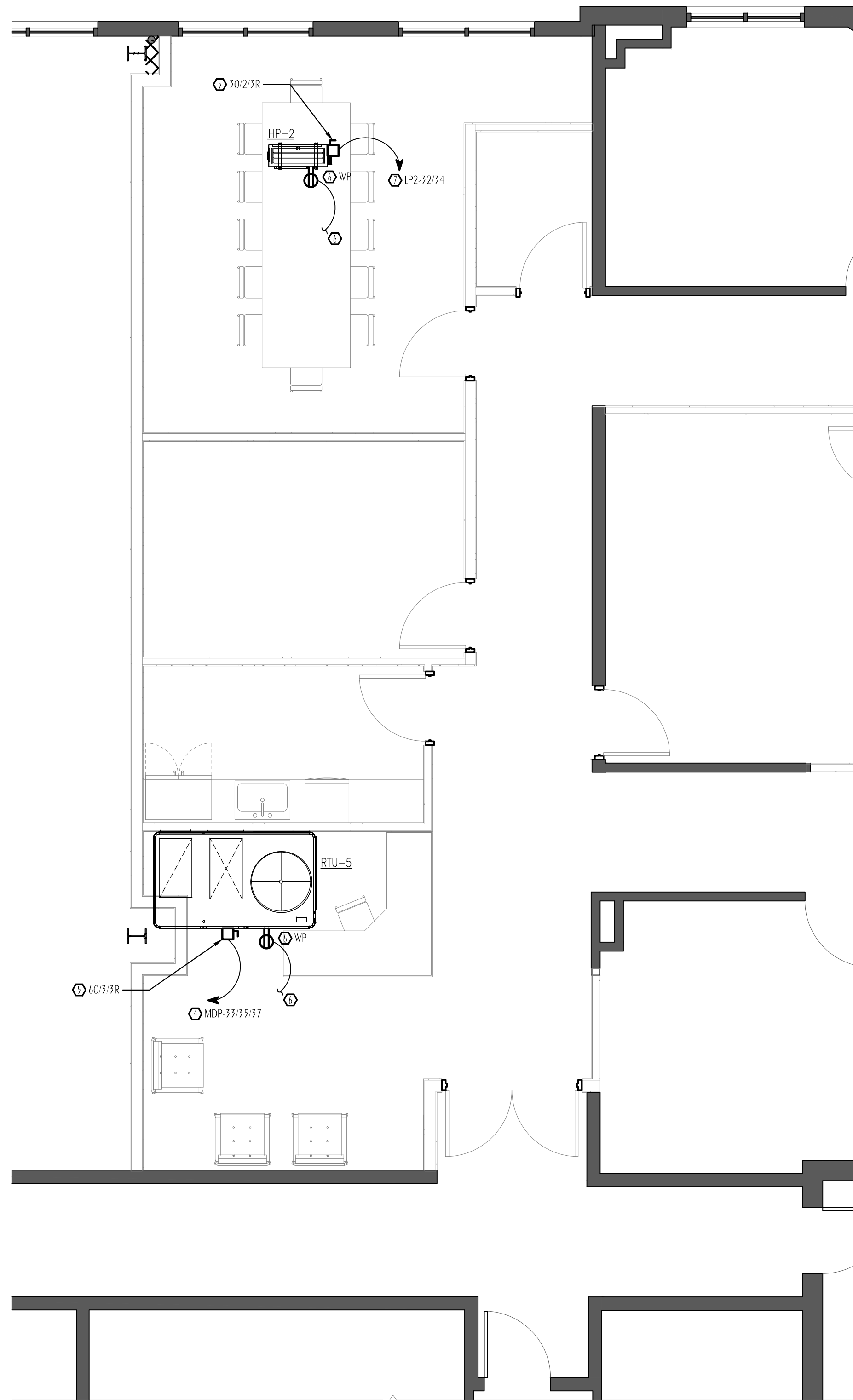


1

POWER AND MISCELLANEOUS SYSTEM PLAN

E1.1

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

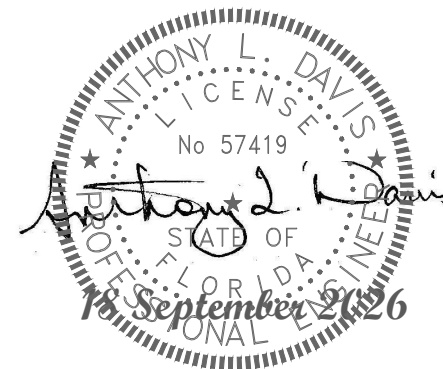


2

MECHANICAL POWER PLAN - ROOF

E1.1

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



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SOUTHERN
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850.270.8517
FL# ARI00031

project number: 26034

REVISION SCHEDULE		
REV. #	DESCRIPTION	DATE
1	AS SHOWN REMOVE TREATMENT RMS	
2	4/8/25	

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
POWER AND
MISCELLANEOUS
SYSTEM PLAN

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date:
09/18/2026

drawing phase:
SCHEMATIC
DESIGN

drawing number:

E1.1

- KEYNOTES
- FIXTURE WIRED FOR 24-HOUR NON-SWITCHED OPERATION FOR SECURITY.
- EC SHALL REFER TO 'ELECTRICAL LEGEND' FOR REQUIRED 0-10V 2-WIRE CIRCUIT FOR DIMMING.
- EC TO CONNECT TO CONNECT TO LIGHTING IN EXISTING SPACE.
- INITIALLY, THE LIGHTING IN THE EXISTING AREA OF THIS SPACE WAS FED VIA PANEL 'HP' (277V) FROM THE LIGHTING IN THE SPACE BELOW. EC TO DISCONNECT THIS FEED AND INSTALL NEW HOMERUN TO EXISTING PANEL 'HP' IN ELECTRICAL ROOM 201'. SEE SHEET 'E1.1' OF THE ORIGINAL CONSTRUCTION DRAWINGS.

SOUTHERN
lines
DESIGN

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project number:

26034

REVISION SCHEDULE		
REV.	DESCRIPTION	DATE
1	AS SHOWN REMOVE TREATMENT RMS	
2	4/8/25	

project name:

GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:

LIGHTING PLAN

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date:

09/18/2026

drawing phase:

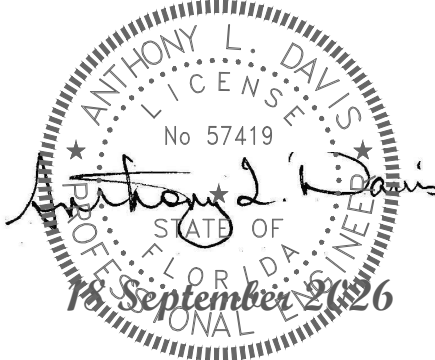
SCHEMATIC
DESIGN

drawing number:



1 LIGHTING PLAN

E2.1 SCALE: 1/4" = 1'-0"



ANTHONY L. DAVIS. P.E.

3303 DOUBLE EAGLE LANE
OPELIKA, AL 36801
Email: anthonyldavis@att.net
PH: (850) 393-1368

AL PE #-24573/FL PE #-57419/GA PE #-35421
LA PE #-44721/MS PE #-19437/AR PE #-13461
KY PE #-34138/MO PE #-040692
TN PE #-116862/TX PE #-117971

E2.1



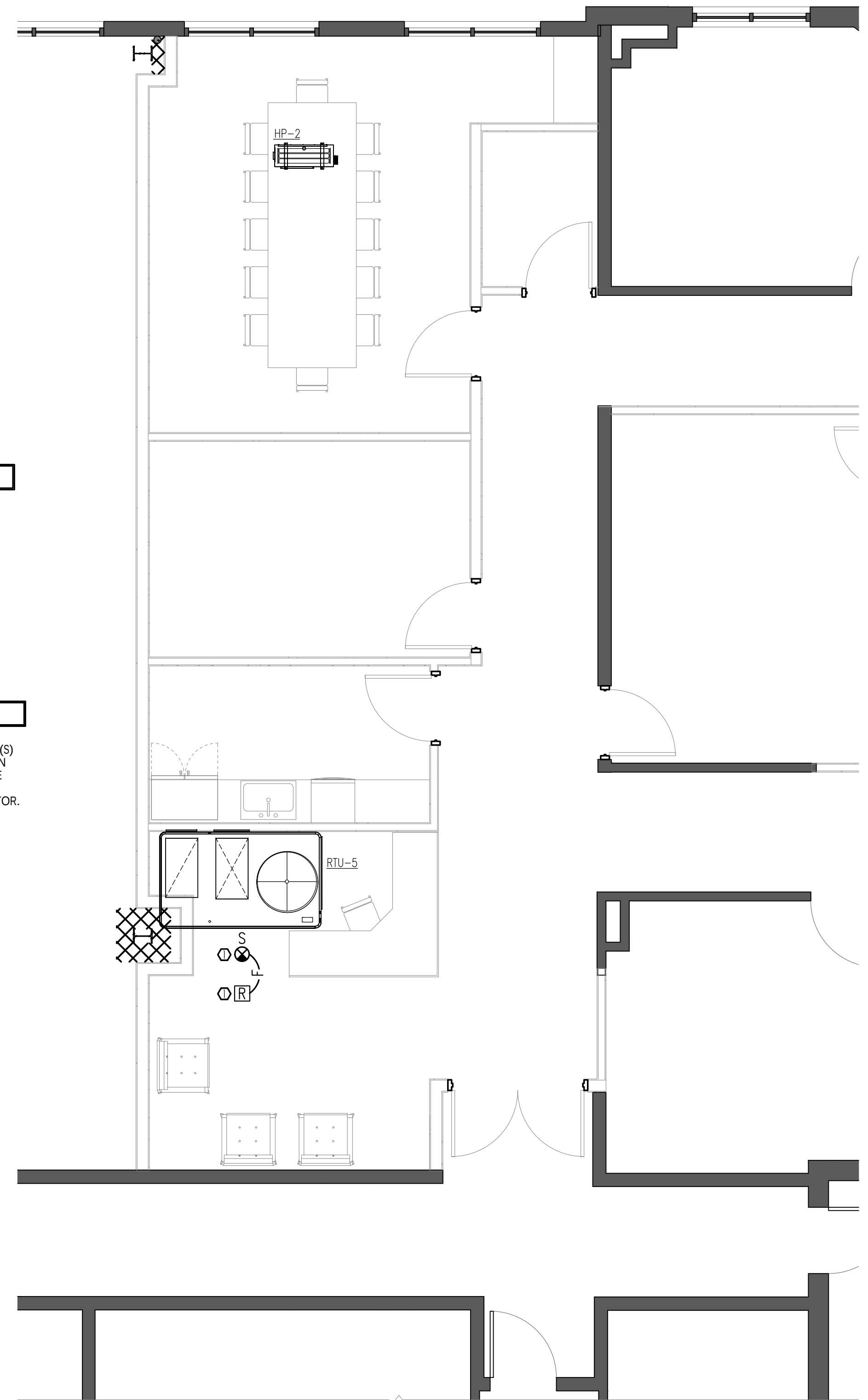
1 FIRE ALARM PLAN
E3.1 SCALE: 1/4" = 1'-0"

GENERAL NOTE(S)

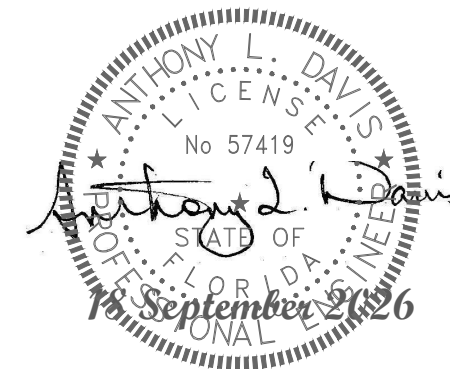
1. EC/FIRE ALARM CONTRACTOR TO ENSURE ALL NEW DEVICES ARE 100% COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. MAIN FIRE ALARM CONTROL PANEL IS A NOTIFIER NPW2-100 LOCATED IN THE FIRE RISER ROOM LOCATED ON THE GROUND FLOOR.

KEYNOTES

- MECHANICAL CONTRACTOR TO FURNISH/INSTALL LOW-VOLTAGE DUCT SMOKE DETECTOR (IN SUPPLY OF UNITS OF 2000 CFM OR GREATER. SMOKE DETECTOR(S) SHALL SHUT DOWN UNIT UPON ACTIVATION OR VIA THE FIRE ALARM SYSTEM. IN ADDITION, THE DETECTOR(S) SHALL BE MONITORED AND CONTROLLED VIA THE FIRE ALARM SYSTEM. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE REQUIRED LOW-VOLTAGE POWER FROM THE UNIT TO THE DUCT SMOKE DETECTOR. THE FIRE ALARM CONTRACTOR SHALL PROVIDE THE REQUIRED RELAY TO INTERCONNECT THE FIRE ALARM SYSTEM TO THE DUCT SMOKE DETECTOR(S).



2 FIRE ALARM PLAN - ROOF
E1.1 SCALE: 1/4" = 1'-0"



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KY PE #-34138/NC PE #-040692
TN PE #-116862/TX PE #-117971

SOUTHERN
lines
DESIGN
90 WRM CIRCLE, UNIT 5
SANTA ROSA BEACH, FL 32459
850.270.8517
FL# ARI00031

project number: **26034**

REVISION SCHEDULE		
REV. #	DESCRIPTION	DATE
1	AS SHOWN REMOVE TREATMENT RMS	
2	4/8/25	

project name:
GRAND BOULEVARD
OFFICE

585 GRAND BOULEVARD
SANDESTIN, FL 32500

drawing name:
FIRE ALARM PLAN

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date:
09/18/2026

drawing phase:
SCHEMATIC
DESIGN

drawing number:

E3.1

Florida Building Code, 8th Edition (2023) - Energy Conservation

EnergyGauge Summit® Fla/Com-2023, Effective Date: Dec 31, 2023

C407: FBC Total Building Performance Compliance Option

Compliance applying the requirements of Sections C402.5, C403.2, C404, C405.2, C405.4, C405.5, C407 and C408. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- ☐ The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- ☐ The compliance report must include the full input report generated by the software as contiguous part of the compliance report.
- ☐ Boxes appropriately checked in the Mandatory Section of the compliance report.

PROJECT SUMMARY

Short Desc: 2653

Owner: Grand Boulevard

Address1: 585 Grand Boulevard

Address2:

Type: Office

Jurisdiction: WALTON COUNTY, WALTON COUNTY, FL (761000)

Conditioned Area: 2688 SF

No of Stories: 1

Permit No: 0

Description: Grand Boulevard Office

City: Sandestin

State: Florida

Zip: 32500

Class: Renovation to existing building

Conditioned & UnConditioned Area: 2688 SF

Area entered from Plans 0 SF

Max Tonnage 6.9

If different, write in: _____

Compliance Summary			
Component	Design	Criteria	Result
Gross Energy Cost (in \$)	1438.00	1449.00	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			No Entry
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA
IMPORTANT MESSAGE Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report			

This item has been electronically signed and sealed by James W. Johnson, Jr. using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

Prepared By: _____

Building _____

Official: _____

Date: _____

Date: _____

I certify that this building is in compliance with the Florida Energy Efficiency Code

Owner Agent: _____

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: _____

Reg No: _____ Signature _____

Electrical
Designer: _____

Reg No: _____ Signature _____

Lighting
Designer: _____

Reg No: _____ Signature _____

Mechanical
Designer: _____

Reg No: _____ Signature _____

Plumbing
Designer: _____

Reg No: _____ Signature _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals per C103.1.1.1.2

Project: 2653
 Title: Grand Boulevard Office
 Type: Office
 (WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	92.80	109.70
	\$1,438	\$1,704
ELECTRICITY(MBtu/kWh/\$)	92.80	109.70
	27190	32154
	\$1,438	\$1,704
AREA LIGHTS	13.00	20.80
	3816	6092
	\$202	\$323
MISC EQUIPMT	40.30	40.30
	11815	11815
	\$625	\$626
PUMPS & MISC	0.10	0.20
	40	62
	\$2	\$3
SPACE COOL	31.30	26.80
	9170	7846
	\$485	\$416
SPACE HEAT	0.90	0.90
	254	262
	\$13	\$14
VENT FANS	7.20	20.70
	2095	6077
	\$111	\$322

Credits Applied: None

Passing Criteria = 1449

Design (including any credits) = 1438

Passing requires Proposed Building cost to be at most 85% of
 Baseline cost. This Proposed Building is at 84.4%

PASSES

External Lighting Compliance						
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
None						

Project: 2653
Title: Grand Boulevard Office
Type: Office
(WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

Lighting Controls Compliance

Acronym	ID	Description	Area (sq.ft)	Compliance
<u>Pr0Zo1Sp1</u>	17	<u>Zo0Sp1 (Office - Enclosed)</u>	1,816	COMPLIANCE: PASSES REQUIRED: All of 1 ; one of 2 3 ; one of 8 CONTROLS IN SPACE: 1-Manual (Local Control) 2-Occupancy Sensor - Manual ON only 8-Occupant Sensor Auto Full OFF
<u>Pr0Zo2Sp1</u>	17	<u>Zo0Sp1 (Office - Enclosed)</u>	872	COMPLIANCE: PASSES REQUIRED: All of 1 ; one of 2 3 ; one of 8 CONTROLS IN SPACE: 1-Manual (Local Control) 2-Occupancy Sensor - Manual ON only 8-Occupant Sensor Auto Full OFF
				PASSES

Project: 2653
Title: Grand Boulevard Office
Type: Office
(WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged System					No. of Units
							1
Component	Category	Capacity	Eff Design	Eff Criteria	Integrated Eff-Design	Integrated Eff-Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 - 135000 Btu/h Cooling Capacity	83190	12.00	11.00	15.50	14.10	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap	61470	3.71	3.40			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2300	0.26	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00	4.20			PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
Pr0Sy2	System 2	Constant Volume Packaged System					No. of Units
							1
Component	Category	Capacity	Eff Design	Eff Criteria	Integrated Eff-Design	Integrated Eff-Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 45000 - 65000 Btu/h Cooling Capacity	60000	16.00	14.30			PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	47000	14.50	7.50			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2000	0.25	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00	4.20			PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES
							PASSES

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
								None

Project: 2653
Title: Grand Boulevard Office
Type: Office
(WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

Water Heater Compliance							
Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric Instantaneous Water Heater	< 2 gal	0.98	0.91	0.02		PASSES
							PASSES

Project: 2653
Title: Grand Boulevard Office
Type: Office
(WEA File: FL_CRESTVIEW_BOB_SIKES_AP.tm3)

Piping System Compliance							
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compl- iance
Domestic and Service Hot Water Systems	0.75	False	105.00	0.28	0.50	0.50	PASSES
					PASSES		

Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted for FBC with permission. Not all may be applicable

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
6037 Post Constructic	C401.3	Envelope	A thermal envelope certificate will be supplied and completed by an approved third party.	☐	☐	☒
6031 Fenestration	C402.4.1	Envelope	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☒	☐	☐
6033 Fenestration	C402.4.1	Envelope	The skylight area <= 3 percent of the gross roof area.	☐	☒	☐
6036 Fenestration	C402.4.1.1	Envelope	Vertical Fenestration Area Allowance: A maximum of 40 percent of gross above-grade wall area is permitted to be vertical fenestration area provided in buildings not greater than two stories above grade, >= 50 percent of the conditioned floor area is within a daylight zone, in buildings three or more stories above grade, not less than 25 percent of the net floor area is within a daylight zone, daylight responsive controls are installed, and glazing assemblies within the scope of NFRC 200 have visible transmittance >= 1.1 times SHGC.	☒	☐	☐
6038 Fenestration	C402.4.1.2	Envelope	A maximum of 6 percent of roof area is permitted to be skylight area provided daylight responsive controls are installed in daylight zones under skylights.	☐	☒	☐

6039 Fenestration	C402.4.2	Envelope	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is ≤ half the floor area; (b) the skylight area to daylight zone is ≥ 3 percent with a skylight VT ≥ 0.40; or a minimum skylight effective aperture ≥ 1 percent. []- Exception 1:C402.4.2: Buildings in climate zones 6 through 8. []- Exception 2:C402.4.2: Spaces where the proposed general lighting power densities < 0.5 W/ft2. []- Exception 3:C402.4.2: Areas with obstructions that block direct beam sunlight on ≥ 1/2 of the roof over the enclosed area for more than 1,500 daytime hours per year between 8 am and 4 pm. []- Exception 4:C402.4.2: Spaces where the daylight zone under rooftop monitors is > 50 percent of the enclosed space floor area. []- Exception 5:C402.4.2: Spaces where the total area net of daylight zones adjacent to vertical fenestration < 2,500 s.f. and where the lighting is controlled. []- Exception 6:C402.4.2: Requirement does not apply.	☐	☒	☐
6032 Fenestration	C402.4.3	Envelope	Vertical fenestration Maximum U-factor and SHGC value.	☒	☐	☐
6034 Fenestration	C402.4.3	Envelope	Skylight SHGC value.	☐	☒	☐
6040 Fenestration	C402.4.5	Envelope	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☒	☐	☐
6046 Post Constructic	C402.5.11	Envelope	Operable openings > 40 ft2 will be interlocked with heating and cooling systems to setback setpoint temperatures within 10 minutes of opening. []- Exception 1:C402.5.11: Separately zoned areas. []- Exception 2:C402.5.11: Warehouses with overhead doors for occupancy. []- Exception 3:C402.5.11: Entrance doors located in exterior wall as part of a vestibule.	☐	☒	☐
6056 HVAC	C403.2.1	Mechanical	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure []- Exception 1:C403.2.1: Mechanical systems are designed by a registered engineer	☒	☐	☐

6096 HVAC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp. ☒ ☐ ☐ []- Exception 1:C403.2.12.1: Hospital and laboratory systems that utilize flow control devices on exhaust and/or return. []- Exception 2:C403.2.12.1: Individual exhaust fans with motor nameplate horsepower less than or equal 1 hp. []- Exception 3:C403.2.12.1: Requirement does not apply.
6055 HVAC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits. ☒ ☐ ☐ []- Exception 1:C403.2.12.2: Fans equipped with electronic speed control devices []- Exception 2:C403.2.12.2: Fans with fan nameplate electrical input power < 0.89 kW []- Exception 3:C403.2.12.2: Fan system complying with Section C403.2.12.1 motor nameplate hp (Option 1). []- Exception 4:C403.2.12.2: Fans with motor nameplate horsepower < 1 hp (746 W). []- Exception 5:C403.2.12.2: Requirement does not apply.
6141 SYSTEM_SPEC	C403.2.12.3	Mechanical	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95 at the design point of operation. ☒ ☐ ☐ []- Exception 1:C403.2.12.3: Single not embedded fans with motor nameplate horsepower of less than 1 hp (0.89 kW). []- Exception 2:C403.2.12.3: Embedded fans with motor nameplate horsepower exceeding 5 hp (4.1 kW). []- Exception 3:C403.2.12.3: Multiple fans in series or parallel have a combined motor nameplate horsepower of less or equal 5 hp and are operated functionally as a single fan. []- Exception 4:C403.2.12.3: Fans integral to equipment listed under Section C403.2.3. []- Exception 5:C403.2.12.3: Fans included in equipment having certified seal for air or energy performance of the equipment package. []- Exception 6:C403.2.12.3: Ceiling fans. []- Exception 7:C403.2.12.3: Fans for gases at temperatures above 425F. []- Exception 8:C403.2.12.3: Fans for operation in explosive atmospheres. []- Exception 9:C403.2.12.3: Reversible fans for tunnel ventilation. []- Exception 10:C403.2.12.3: Fans not covered by AMCA 208. []- Exception 11:C403.2.12.3: Fans intended to operate only during emergency conditions.

6057 HVAC	C403.2.2	Mechanical	HVAC systems and equipment capacity does not exceed calculated loads. ☒ ☐ ☐ []- Exception 1:C403.2.2: Required standby equipment with proper controls per code. []- Exception 2:C403.2.2: Multiple units of the same type of equipment with sequencing controls. []- Exception 3:C403.2.2: Living spaces in commercial buildings shall be sized in accordance with Section R403.7.1.1 and its exceptions
6087 HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2). ☐ ☒ ☐ []- Exception 1:C403.2.7: Where energy recovery systems are prohibited by the Florida Building Code, Mechanical []- Exception 2:C403.2.7: Laboratory fume hood systems []- Exception 3:C403.2.7: Systems serving spaces that are heated to less than 60°F (15.5°C) and are not cooled []- Exception 4:C403.2.7: Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy []- Exception 5:C403.2.7: Heating energy recovery in Climate Zones 1 and 2 []- Exception 6:C403.2.7: Cooling energy recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7 and 8 []- Exception 7:C403.2.7: Systems requiring dehumidification that employ energy recovery in series with the cooling coil []- Exception 8:C403.2.7: Where the largest source of air exhausted at a single location at the building exterior is less than 75 percent of the design outdoor air flow rate. []- Exception 9:C403.2.7: Systems expected to operate less than 20 hours per week at the outdoor air percentage covered by Table C403.2.7(1). []- Exception 10:C403.2.7: Systems exhausting toxic, flammable, paint or corrosive fumes or dust. []- Exception 11:C403.2.7: Commercial kitchen hoods used for collecting and removing grease vapors and smoke
6047 HVAC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation. ☒ ☐ ☐ []- Exception 1:C403.3.2: Economizers on VAV systems.

6093 HVAC	C403.3.3, C403.3.3.1, C403.3.3.2, C403.3.3.3, C403.3.3.4, C403.3.3.5	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation. []- Exception 1:C403.3_C403.3.2: Buildings located in Climate Zones 1A and 1B. []- Exception 2:C403.3_C403.3.2: Individual DX fan cooling units have a capacity is < 54 KBtu/h (15.8 kW) or total chilled water system capacity < minimum specified in Table C403.3(1). []- Exception 3:C403.3_C403.3.2: Where more than 25 % of the air supplied to spaces that are designed to be humidified above 35°F (1.7°C) dewpoint temperature to satisfy process needs []- Exception 4:C403.3_C403.3.2: Systems that serve residential spaces where the system capacity is < 270 kBtu/h []- Exception 5:C403.3_C403.3.2: Systems expected to operate less than 20 hours per week []- Exception 6:C403.3_C403.3.2: System serves supermarket areas with open refrigerated casework. []- Exception 7:C403.3_C403.3.2: Where the minimum code required cooling efficiency of the HVAC unit rated with an IPLV, IEER or SEER is increased by at least 17 %. []- Exception 8:C403.3_C403.3.2: Chilled-water cooling systems that are passive (without a fan) capacity is < the minimum specified in Table C403.3(1). []- Exception 9:C403.3_C403.3.2: Systems that include a heat recovery system in accordance with Section C403.4.5 []- Exception 10:C403.3_C403.3.2: Economizers on VAV systems cause zone-level heating to increase due to a reduction in supply air temperature.	☒ ☐ ☐
6042 HVAC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control. []- Exception 1:C403.2.12.5_C403.2.12.5.1_C403.2.12.5.2: Modulating fan control not required for chilled water and evaporative cooling units with fan motors of < 1 hp where the units are not used to provide ventilation air and the indoor fan cycles with the load. []- Exception 2:C403.2.12.5_C403.2.12.5.1_C403.2.12.5.2: Requirement does not apply.	☐ ☒ ☐
6053 HVAC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements. []- Exception 1:C403.4.2.3.1: A deadband of less than 20°F is allowed where a temperature optimization controller is used.	☐ ☒ ☐

6144 Mandatory Addit	C406.6	Project	Dedicate outdoor air system efficiency energy credit - Building equipped with independent ventilation system designed to provide 100-percent outdoor air to each individual occupied space, as specified by the IMC. The ventilation system is capable of total energy recovery and includes HVAC system controls that manage temperature resets at least 25 percent of delta design supply-air / room-air temp.	☐	☒	☐
2. To be checked by Plan Reviewer						
6004 Plan Review	C103.2	Mechanical	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.	☐	☐	☐
6011 Plan Review	C103.2	Interior Lighting	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. The information provided should include lighting controls per sections C405.2 and C405.3.	☐	☐	☐
6023 Plan Review	C103.2	Exterior Lighting	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. The information provided should include Exterior lighting power requirements (Mandatory) per section C405.4.	☐	☐	☐
6001 Plan Review	C103.2, C103.2.1	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐	☐	☐
6081 HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$. []- Exception 1:C402.2.6: Heated slabs on grade insulated in accordance with Section C402.2.5 []- Exception 2:C402.2.6: Requirement does not apply.	☐	☐	☐
6100 HVAC	C403.2.13	Mechanical	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch. []- Exception 1:C403.12.1: Requirement does not apply.	☐	☐	☐
6068 HVAC	C403.2.4.1.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure. []- Exception 1:C403.4.1.3: Requirement does not apply.	☐	☐	☐

6107 HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system. []- Exception 1:C403.2.4.2: Zones operated continuously. []- Exception 2:C403.2.4.2: Zones have a full HVAC load demand not exceeding 6,800 Btu/h (2 kW) and having a readily accessible manual shutoff switch. []- Exception 3:C403.2.4.2: Requirement does not apply.	☐	☐	☐
6123 HVAC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable. []- Exception 1:C403.2.4.4: Exhaust and outdoor air connections having fan systems 5000 cfm or smaller. []- Exception 2:C403.2.4.4: Exhaust airflow less than 10% of design. []- Exception 3:C403.2.4.4: Zones and systems intended to operate continuously or are inoperative when all other zones are inoperative. []- Exception 4:C403.2.4.4: Requirement does not apply.	☐	☐	☐
6124 HVAC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers. []- Exception 1:C403.2.4.7: Requirement does not apply.	☐	☐	☐
6125 HVAC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control. []- Exception 1:C403.2.5: Requirement does not apply.	☐	☐	☐
6089 HVAC	C403.2.6	Mechanical	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. []- Exception 1:C403.2.2: Requirement does not apply.	☐	☐	☐
6090 HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >=25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm. []- Exception 1:C403.2.6.1: Systems with energy recovery complying with Section C403.2.7. []- Exception 2:C403.2.6.1: Multiple-zone systems without DDC. []- Exception 3:C403.2.6.1: Multiple-zone systems with design outdoor air of less than 1200 cfm. []- Exception 4:C403.2.6.1: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is < 1,200 cfm []- Exception 5:C403.2.6.1: Ventilation provided for process loads only []- Exception 6:C403.2.6.1: Requirement does not apply.	☐	☐	☐

6098 HVAC	C403.4.2	Mechanical	The heating of fluids in hydronic systems that have been previously mechanically cooled, and the cooling of fluids that have been previously mechanically heated are limited in accordance with Sections C403.4.2.1-C403.4.2.3. Single boiler systems >500 kBtu/h have multistaged or modulating burner. []- Exception 1:C403.4.2: Requirement does not apply.	☐	☐	☐
6142 HVAC	C403.4.2.3.2	Mechanical	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop. []- Exception 1:C403.4.2.3.2: Heat pump system must reject heat throughout the year. []- Exception 2:C403.4.2.3.2: Requirement does not apply.	☐	☐	☐
6116 HVAC	C403.4.2.5	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler shall comply with the turndown ratio specified in Table C403.4.2.5.	☐	☐	☐
6071 HVAC	C403.4.2.6	Mechanical	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	☐	☐	☐
6099 HVAC	C403.4.3.1	Mechanical	Fan systems with total system motor capacity >=5 hp associated with heat rejection equipment configured to automatically modulate the fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device. []- Exception 1:C403.4.3.1: Fans serve multiple refrigerant or fluid cooling circuits. []- Exception 2:C403.4.3.1: Condenser fans serve flooded condensers. []- Exception 3:C403.4.3.1: Requirement does not apply.	☐	☐	☐
6120 HVAC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or variable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow criteria. []- Exception 1:C403.4.3.4: Requirement does not apply.	☐	☐	☐

6103 HVAC	C403.6.1	Mechanical	Hydronic and multizone HVAC system controls are VAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1. []- Exception 1:C403.4.4: Zones or supply air systems where $\geq 75\%$ of the energy for reheating or for providing warm air in mixing systems is provided from a site-recovered or site-solar energy source []- Exception 2:C403.4.4: Zones where special humidity levels are required to satisfy process needs []- Exception 3:C403.4.4: Zones with a peak supply air of ≤ 300 cfm (142 L/s) and where the flow rate is $< 10\%$ of the total fan system supply airflow rate. []- Exception 4:C403.4.4: Zones where the volume of air to be reheated, recooled or mixed is $\leq$ the minimum ventilation requirements of Chapter 4 of the Florida Building Code, Mechanical []- Exception 5:C403.4.4: Zones or supply air systems with thermostatic and humidistatic controls capable of preventing reheating, recooling, mixing or simultaneous supply of air that has been previously cooled []- Exception 6:C403.4.4: Requirement does not apply.	☐	☐	☐
6122 HVAC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency ≤ 92 Et. Where multiple pieces of water-heating equipment serve the building with combined rating $\leq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency ≤ 90 Et. Exclude input rating of equipment in individual dwelling units and equipment ≤ 100 kBtu/h []- Exception 1:C404.2.1: 25 percent or more of the annual service water heating requirement is provided by on-site renewable energy or site-recovered energy. []- Exception 2:C404.2.1: Water heaters installed in individual dwelling units shall not be required to be included in the total input rating of service waterheating equipment []- Exception 3:C404.2.1: Water heaters with an input rating of $\leq 100,000$ Btu/h (29.3 kW) not required to be included in the total input rating of service water-heating equipment []- Exception 4:C404.2.1: Requirement does not apply.	☐	☐	☐
6114 HVAC	C404.4	Mechanical	All piping insulated in accordance with section details and Table C403.12.3. []- Exception 1:C404.4: Requirement does not apply.	☐	☐	☐
6019 HVAC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. []- Exception 1:C404.5_C404.5.1_C404.5.2: Requirement does not apply.	☐	☐	☐

6022 HVAC	C404.6.3	Mechanical	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to ≤ 5 minutes after end of heating cycle. []- Exception 1:C404.6.3: Requirement does not apply.	☐	☐	☐
6026 HVAC	C404.7	Mechanical	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F. []- Exception 1:C404.7: Requirement does not apply.	☐	☐	☐
6048 Plan Review	C405.5.2	Project	Group R-2 dwelling units have separate electrical meters. []- Exception 1:C405.5.2: Requirement does not apply.	☐	☐	☐
6030 Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐	☐	☐
6084 HVAC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections. []- Exception 1:C408.2.2.2: Pumps with pump motors of 5 hp (3.7 kW) or less. []- Exception 2:C408.2.2.2: Where throttling results in no greater than 5 percent of the nameplate horsepower draw above that required if the impeller were trimmed.	☐	☐	☐
3. To be checked by Inspector						
6016 Insulation	C104	Envelope	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans.	☐	☐	☐
6006 Insulation	C104, C303.1.1	Envelope	Installed roof insulation type and R-value consistent with insulation specifications reported in plans. For some ceiling systems, verification may need to occur during Framing Inspection.	☐	☐	☐
6008 Insulation	C104.2.1	Envelope	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans.	☐	☐	☐
6007 Insulation	C303.1, C303.1.1	Envelope	Roof insulation installed per manufacturer's instructions and is labeled with R-value or insulation certificate providing R-value and other relevant data. Blown or poured loose-fill insulation is installed only where the roof slope is > 3 in 12.	☐	☐	☐
6035 Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided. []- Exception 1:C303.1.3: Default values are used.	☐	☐	☐
6020 Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐
6005 Insulation	C303.2, C303.2.1	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐

6013 Insulation	C303.2, C303.2.1	Envelope	Slab edge insulation installed per manufacturer's instructions and the Florida Building Code, Building.	☐	☐	☐
6027 Insulation	C303.2, C402.2.4	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs. []- Exception 1:C303.2_C402.2.4: All perimeter framing fully insulated at metal or wood framed prescriptive levels. []- Exception 2:C303.2_C402.2.4: Concrete floor slab insulation turns up and contacts underside of floor under wall assembly. []- Exception 3:C303.2_C402.2.4: Requirement does not apply.	☐	☐	☐
6015 Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐	☐	☐
6002 Insulation	C402.1.3	Envelope	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans.	☐	☐	☐
6061 Insulation	C402.1.3	Envelope	Non-swinging opaque doors have R-4.75 insulation. []- Exception 1:C402.1.3: Requirement does not apply.	☐	☐	☐
6012 Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5, whichever is less. []- Exception 1:C402.2.1.5: Unit skylight curbs included as a component of a skylight listed and labeled per NFRC 100. []- Exception 2:C402.2.1.5: Requirement does not apply.	☐	☐	☐
6064 Insulation	C402.2.2	Envelope	Roof assembly meets minimal thermal resistance installed between roof framing or in a continuous fashion on the roof assembly as stipulated in Table C402.1.3. Requirements for above deck insulation, minimum thickness, suspended ceilings, staggered joints and skylight curbs will be met. []- Exception 1:C402.2.1: Requirement does not apply.	☐	☐	☐
6024 Insulation	C402.2.3	Envelope	Installed floor insulation type and R-value consistent with insulation specifications reported in plans.	☐	☐	☐
6021 Insulation	C402.2.5, C402.2.5.1	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil. []- Exception 1:C402.2.5_C402.2.5.1: Requirement does not apply.	☐	☐	☐
6051 Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5. []- Exception 1:C402.2.6: Heated slab-on-grade. []- Exception 2:C402.2.6: Requirement does not apply.	☐	☐	☐

6014 Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance ≥ 0.55 (0.63 for Climate Zone 1A) and thermal emittance ≥ 0.75 or 3-year-aged solar reflectance index ≥ 64.0 (75 for Climate Zone 1A). []- Exception 1:C402.3: Roof Over Conditioned Space With No Cooling. []- Exception 2:C402.3: Ballasted Roof. []- Exception 3:C402.3: Vegetated Roof (75% coverage). []- Exception 4:C402.3: Shaded or Covered Roof (75% coverage). []- Exception 5:C402.3: Asphaltic Membrane Roof. []- Exception 6:C402.3: Steep Sloped Roof.	☐	☐	☐
6028 Fenestration	C402.4.3	Envelope	Installed skylight U-factor and SHGC consistent with label specifications and as reported in plans.	☐	☐	☐
6025 Fenestration	C402.4.3, C402.4.3.4	Envelope	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans.	☐	☐	☐
6043 Air Leakage	C402.5	Envelope	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage ≤ 0.40 cfm/ft ² of the building thermal envelope area at a pressure differential of 0.3 inch water gauge (75 Pa).	☐	☐	☐
6044 Air Leakage	C402.5.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner. []- Exception 1:C402.5.1: Requirement does not apply.	☐	☐	☐
6003 Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐	☐	☐
6062 Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability ≤ 0.004 dfm/ft². Air barrier penetrations are sealed in an approved manner. []- Exception 1:C402.5.1.2.1: Requirement does not apply.	☐	☐	☐
6065 Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage ≤ 0.04 cfm/ft². Air barrier penetrations are sealed in an approved manner. []- Exception 1:C402.5.1.2.2: Requirement does not apply.	☐	☐	☐

6052 Air Leakage	C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements. ☐- Exception 1:C402.5.4: Field fabricated fenestration assemblies. ☐- Exception 2:C402.5.4: Fenestration in buildings that comply with air leakage requirements with a whole building air leakage test. ☐- Exception 3:C402.5.4: Doors that comply with special International Building Code requirements.	☐	☐	☐
6009 Air Leakage	C402.5.5, C402.5.11, 403.6	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close. Reference section C403.6 for operational details.	☐	☐	☐
6049 Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway. ☐- Exception 1:C402.5.6: Requirement does not apply.	☐	☐	☐
6050 Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices. ☐- Exception 1:C402.5.7: Building entrances with revolving doors. ☐- Exception 2:C402.5.7: Doors not intended to be used as a building entrance. ☐- Exception 3:C402.5.7: Doors opening directly from a sleeping unit or dwelling unit. ☐- Exception 4:C402.5.7: Doors that open directly from a space &lt;=3000 ft2. ☐- Exception 5:C402.5.7: Doors with air curtain. ☐- Exception 6:C402.5.7: Existing door is being replaced and existing vestibules not removed. ☐- Exception 7:C402.5.7: Requirement does not apply.	☐	☐	☐
6045 Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing. ☐- Exception 1:C402.5.10: Requirement does not apply.	☐	☐	☐
6086 HVAC	C403.2	Mechanical	HVAC equipment efficiency verified.	☐	☐	☐

6092 HVAC	C403.2.10	Mechanical	HVAC piping insulation insulated in accordance with Table C403.2.10. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation. []- Exception 1:C403.2.10: Factory-installed piping within HVAC equipment []- Exception 2:C403.2.10: Factory-installed piping within room fan-coils and unit ventilators tested under AHRI 440. []- Exception 3:C403.2.10: Piping that conveys fluids that have a design operating temperature range between 60 and 105°F. []- Exception 4:C403.2.10: Fluid not heated or cooled. []- Exception 5:C403.2.10: Strainers and valves associated with 1 inch or smaller piping. []- Exception 6:C403.2.10: Underground piping with fluids no hotter than 60°F. []- Exception 7:C403.2.10: Piping design for radiant heating systems []- Exception 8:C403.2.10: Requirement does not apply.	☐	☐	☐
6171 HVAC	C403.2.12.4	Mechanical	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 for either balancing or remote control. []- Exception 1:C403.2.12.4: Motors in the airstream within fan coils and terminal units only provide heating to the space served. []- Exception 2:C403.2.12.4: Motors in space-conditioning equipment that comply with Section C403.2.3 or C403.2.12. []- Exception 3:C403.2.12.4: Motors that comply with Section C405.7. []- Exception 4:C403.2.12.4: Requirement does not apply.	☐	☐	☐
6173 HVAC	C403.2.12.5.1	Mechanical	Each DX cooling system $\geq$ 65 kBtu and chiller water/evaporative cooling system with fans $\geq$ 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section. []- Exception 1:C403.2.12.5.1: Modulating fan control is not required for chilled water and evaporative cooling units with fan motors of less than 1 hp where the units are not used to provide ventilation air and the indoor fan cycles with the load. []- Exception 2:C403.2.12.5.1: Where the volume of outdoor air required to comply with the ventilation requirements of the IMC at low speed exceeds the air that would be delivered per Section C403.2.12.5 []- Exception 3:C403.2.12.5.1: Requirement does not apply.	☐	☐	☐

6097 HVAC	C403.2.12.5.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint ≤ 1.2 w.c.. []- Exception 1:C403.2.12.5.2: Requirement does not apply.	☐	☐	☐
6168 HVAC	C403.2.12.5.2	Mechanical	Static pressure sensors used to control VAV fans located such that the controller setpoint is ≤ 1.2 inches w.c.. Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor located on each major branch. []- Exception 1:C403.2.12.5.2: Requirement does not apply.	☐	☐	☐
6167 HVAC	C403.2.12.5.3	Mechanical	Systems with DDC of individual zones reporting to the central control panel configured to reset the static pressure setpoint based on zone requiring the most pressure. The DDC is capable of monitoring zone damper positions or have an alternative method of indicating the need for static pressure. See section for details. []- Exception 1:C403.2.12.5.3: Requirement does not apply.	☐	☐	☐
6178 HVAC	C403.2.12.6	Mechanical	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230. []- Exception 1:C403.2.12.6: Requirement does not apply.	☐	☐	☐
6155 HVAC	C403.2.14, C403.2.14.1, C403.2.14.2	Mechanical	Refrigeration equipment performance shall be determined in accordance with sections C403.2.14.1 and C403.2.14.2 for commercial refrigerators, freezers, refrigerator-freezers, walk-in coolers, walk-in freezers and refrigeration equipment. []- Exception 1:C403.5: Systems have working fluid in the refrigeration cycle that goes through both subcritical and supercritical states (transcritical). []- Exception 2:C403.5: Systems use ammonia refrigerant. []- Exception 3:C403.5: Requirement does not apply.	☐	☐	☐
6102 HVAC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Tables C403.2.3(1) and C403.2.3(2). []- Exception 1:C403.3: Requirement does not apply.	☐	☐	☐
6058 HVAC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system. []- Exception 1:C403.2.4.1: TRUE	☐	☐	☐
6059 HVAC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed. []- Exception 1:C403.2.4.1.1: Requirement does not apply.	☐	☐	☐
6060 HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband. []- Exception 1:C403.2.4.1.2: Manual changeover thermostats. []- Exception 2:C403.2.4.1.2: Precision indoor temperature control required.	☐	☐	☐

6085 HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions. []- Exception 1:C403.2.4.1.3: Requirement does not apply.	☐	☐	☐
6108 HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup []- Exception 1:C403.2.4.2.1_C403.2.4.2.2: Requirement does not apply.	☐	☐	☐
6110 HVAC	C403.2.4.2.3	Mechanical	Systems include optimum start controls. []- Exception 1:C403.2.4.2.3: Requirement does not apply.	☐	☐	☐
6088 Air Leakage	C403.2.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details. []- Exception 1:C403.2.4.3: Gravity dampers acceptable in buildings less than 3 stories. []- Exception 2:C403.2.4.3: Gravity dampers acceptable for exhaust and relief dampers in climate zones 0, 1, 2, or 3. []- Exception 3:C403.2.4.3: Gravity dampers acceptable in systems with outside or exhaust air flow rates less than or equal to 300 cfm. []- Exception 4:C403.2.4.3: Dampers no larger than 24 inches in any dimension are to have a leakage rate of 40 cfm/ft ² at 1.0 inch water gauge when tested with AMCA 500D. []- Exception 5:C403.2.4.3: Requirement does not apply.	☐	☐	☐
6029 HVAC	C403.2.4.5	Mechanical	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50°F and outdoor temperature above 40°F. []- Exception 1:C403.12.2_C403.12.3: Requirement does not apply.	☐	☐	☐
6170 HVAC	C403.2.4.8	Mechanical	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 C403.2.4.8.1 and C403.2.4.8.2). []- Exception 1:C403.2.4.8: Requirement does not apply.	☐	☐	☐
6128 HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity. []- Exception 1:C403.2.6.2: Garages with no mechanical cooling or heating that have exhaust capacity < 8,000 cfm. []- Exception 2:C403.2.6.2: Garages with no mechanical cooling or heating that have a ratio of garage area ventilation to ventilation system motor nameplate hp exceed 1125 cfm/hp. []- Exception 3:C403.2.6.2: Requirement does not apply.	☐	☐	☐

6169 HVAC	C403.2.7	Mechanical	Units that provide ventilation air to multiple zones and operate in combination with zone heating and cooling systems do not use heating or heat recovery to warm supply air to a temperature greater than 60°F when representative building loads or outdoor air temperatures indicate that the majority of zones require cooling. []- Exception 1:C403.7.3: Requirement does not apply.	☐	☐	☐
6129 HVAC	C403.2.8	Mechanical	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria. []- Exception 1:C403.2.8: Requirement does not apply.	☐	☐	☐
6091 HVAC	C403.2.9	Mechanical	HVAC ducts and plenums insulated in accordance with C403.2.9.1 and constructed in accordance with C403.2.9.2, Sealed in accordance with C403.2.9.3. verification may need to occur during Foundation Inspection. []- Exception 1:C403.2.9_C403.2.9.1: Factory-installed as part of HVAC equipment. []- Exception 2:C403.2.9_C403.2.9.1: Where the design temperature difference between the inside and outside of the duct or plenum is less than 15°F. []- Exception 3:C403.2.9_C403.2.9.1: Runouts less than 10 feet (3048 mm) in length to air terminals or air outlets, the rated R-value of insulation need not exceed R-5. []- Exception 4:C403.2.9_C403.2.9.1: Backs of air outlets and outlet plenums exposed to unconditioned spaces need not exceed R-2. []- Exception 5:C403.2.9_C403.2.9.1: Return air ducts meeting all the requirements for building cavities that will be used as return air plenums []- Exception 6:C403.2.9_C403.2.9.1: Requirement does not apply.	☐	☐	☐
6174 SYSTEM_SPEC	C403.3.2	Mechanical	Equipment minimum efficiency:	☐	☐	☐
6175 SYSTEM_SPEC	C403.3.2	Mechanical	Equipment minimum efficiency:	☐	☐	☐
6157 HVAC	C403.3.3.3	Mechanical	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.3.3.3 for applicable device types and climate zones. []- Exception 1:C403.3.3.3: Requirement does not apply.	☐	☐	☐
6158 HVAC	C403.3.3.4	Mechanical	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building. []- Exception 1:C403.3.3.4: Requirement does not apply.	☐	☐	☐

6159 HVAC	C403.3.3.5	Mechanical	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.2.4.3 for details. []- Exception 1:C403.3.3.5: Requirement does not apply.	☐	☐	☐
6094 HVAC	C403.4.1.4	Mechanical	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. []- Exception 1:C402.5.7: Buildings in Climate Zones 1 and 2. []- Exception 2:C402.5.7: Requirement does not apply.	☐	☐	☐
6082 HVAC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐	☐	☐
6095 HVAC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have reset controls to limit heating and cooling supply temperature to <=30 °F.	☐	☐	☐
6072 HVAC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system > 10 hp is off.	☐	☐	☐
6172 HVAC	C403.4.3.2	Mechanical	Multiple-cell heat rejection equipment with variable speed fan drives are controlled to operate the maximum number of fans allowed and so that all fans operate at the same fan speed required for the instantaneous cooling duty. The minimum fan speed will be the minimum allowable speed of the fan drive system in accordance with the manufacturer's recommendations. []- Exception 1:C403.4.3.2: Requirement does not apply.	☐	☐	☐
6118 SYSTEM_SPEC	C403.4.3.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=40.2 gpm/hp. []- Exception 1:C403.4.3.3: Centrifugal open-circuit cooling towers with external sound attenuation or that have ducted inlet or discharge. []- Exception 2:C403.4.3.3: Requirement does not apply.	☐	☐	☐
6160 HVAC	C403.4.4	Mechanical	Supply air systems serving multiple zones have VAV systems with controls configured to reduce the volume of air that is reheated, re-cooled or mixed in each zone. See section for details. []- Exception 1:C403.6.1: Zones or systems with at least 75% of energy used for heating or warming air Systems that prevent reconditioning, mixing or simultaneous supply of air that has previously been mechanically cooled (including via economizers) or heated. []- Exception 2:C403.6.1: Requirement does not apply.	☐	☐	☐

6161 HVAC	C403.4.4.1	Mechanical	Single-duct VAV systems use terminal devices configured to reduce the supply of primary supply air before reheating or recooling takes place. []- Exception 1:C403.4.4.1: Requirement does not apply.	☐	☐	☐
6162 HVAC	C403.4.4.2	Mechanical	Systems that have 1 warm air duct and 1 cool air duct use terminal devices configured to reduce the flow from one duct to a minimum before mixing of air from the other duct takes place. []- Exception 1:C403.4.4.1: Requirement does not apply.	☐	☐	☐
6163 HVAC	C403.4.4.3	Mechanical	Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities > 90,000 Btu/h not equipped with air economizers. []- Exception 1:C403.4.4.1: Requirement does not apply.	☐	☐	☐
6164 HVAC	C403.4.4.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls based on building loads or outside temperatures. []- Exception 1:C403.4.4.5: Systems that prevent re-heating, re-cooling, or mixing of heated and cooled supply air. []- Exception 2:C403.4.4.5: Systems in which at least 75% of the energy for reheating is from site recovered or site solar energy resources. []- Exception 3:C403.4.4.5: Zones in climate zones 1A and 3A with less than 300 cfm design outside air. []- Exception 4:C403.4.4.5: Zones in climate zone 2A with with less than 10,000 cfm of design outside air. []- Exception 5:C403.4.4.5: Zones in climate zones 1A, 2A, and 3A with >= 80% outside air and employing exhaust air energy recovery. []- Exception 6:C403.4.4.5: Requirement does not apply.	☐	☐	☐
6165 HVAC	C403.4.4.6	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls. []- Exception 1:C403.4.4.6: VAV systems that recirculate air from other zones without directly mixing it with outdoor air or dual-duct dual-fan VAV systems, or VAV systems with fan-powered terminal units. []- Exception 2:C403.4.4.6: Systems where the design exhaust airflow is more than 70% of design outdoor air intake flow. []- Exception 3:C403.4.4.6: Requirement does not apply.	☐	☐	☐

6166 HVAC	C403.4.4.7	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls configured to 1) turn off the terminal fan except when space heating is required or where required for ventilation, 2) turn on the terminal fan as the first stage of heating before the heating coil is activated, and 3) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or, reverse the terminal damper logic and provide heating from the central air handler by primary air. []- Exception 1:C403.4.4.7: Requirement does not apply.	☐	☐	☐
6076 HVAC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water. []- Exception 1:C403.4.5: Facility operates < 24/7. []- Exception 2:C403.4.5: Total installed heat capacity of water cooled systems <= 6 MMBtu/h of heat rejection. []- Exception 3:C403.4.5: Design SWH load <= 1 MMBtu/h. []- Exception 4:C403.4.5: Facilities using condenser heat recovery for space heating with heat recovery exceeding 30% of the peak water-cooled condenser load. []- Exception 5:C403.4.5: Facilities providing 60% of their service water heating from site-solar, site-recovered, or other energy sources.	☐	☐	☐
6080 HVAC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 50%; <240 kBtu/h – 25%	☐	☐	☐
6101 HVAC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	☐	☐	☐
6113 HVAC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems. []- Exception 1:C404.3: Tank inlets/outlets associated with solar water heating systems. []- Exception 2:C404.3: Requirement does not apply.	☐	☐	☐
6115 HVAC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe. []- Exception 1:C404.6.1: Requirement does not apply.	☐	☐	☐
6010 HVAC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐	☐	☐
6126 HVAC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	☐	☐	☐

6127 HVAC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps. []- Exception 1:C404.9.2: Where 24-hr pump operation required for public health. []- Exception 2:C404.9.2: Solar and waste heat recovery pool heating pumps. []- Exception 3:C404.9.2: Requirement does not apply.	☐ ☐ ☐
6130 HVAC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas. []- Exception 1:C404.9.3: Pools deriving > 75% of the energy for heating (of not fewer than 3 months) from heat pump or site-recovered energy. []- Exception 2:C404.9.3: Requirement does not apply.	☐ ☐ ☐
6054 Controls	C405.2.1, C405.2.1.1	Interior Lighting	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. []- Exception 1:C405.2.1_C405.2.1.1: Automatic-on controls are allowed in corridors, stairways, restrooms, primary building entrance areas and lobbies, and areas where manual-on controls could impact safety or security. []- Exception 2:C405.2.1_C405.2.1.1: Areas such as security or emergency areas that need continuous lighting. []- Exception 3:C405.2.1_C405.2.1.1: Emergency egress lighting. []- Exception 4:C405.2.1_C405.2.1.1: Lighting that is related to means of egress in stairways, ramps, corridors. []- Exception 5:C405.2.1_C405.2.1.1: Requirement does not apply.	☐ ☐ ☐
6063 Controls	C405.2.1.2	Interior Lighting	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways 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. []- Exception 1:C402.5.1.2: Requirement does not apply.	☐ ☐ ☐

6066 Controls	C405.2.1.3	Interior Lighting	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 $\leq 80\%$ of the full zone general lighting power within 20 minutes of all occupants leaving that control zone. []- Exception 1:C405.2.1.3: Requirement does not apply.	☐	☐	☐
6067 Controls	C405.2.2, C405.2.2.1	Interior Lighting	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. []- Exception 1:C405.2.2_C405.2.2.1: Luminaires requiring specific controls in accordance with C405.2.4. []- Exception 2:C405.2.2_C405.2.2.1: Spaces with patient care. []- Exception 3:C405.2.2_C405.2.2.1: Areas such as security or emergency areas that need continuous lighting. []- Exception 4:C405.2.2_C405.2.2.1: Lighting that is related to means of egress in stairways, ramps, corridors, or emergency routes. []- Exception 5:C405.2.2_C405.2.2.1: Shop and laboratory classrooms.	☐	☐	☐
6069 Controls	C405.2.3.1	Interior Lighting	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 using one of the following or another approved method: (1) Continuous dimming of all luminaires from full output to less than 20 percent of full power, (2) Switching all luminaires to a reduced output of not less than 30 percent and not more than 70 percent of full power, or (3) Switching alternate luminaires or alternate rows of luminaires to achieve a reduced output of not less than 30 percent and not more than 70 percent of full power. []- Exception 1:C405.2: Areas designated as security or emergency areas that are required to be continuously lighted. []- Exception 2:C405.2: Interior exit stairways, interior exit ramps, and exit passageways. []- Exception 3:C405.2: Emergency egress lighting that is normally off.	☐	☐	☐

6070 Controls	C405.2.4, C405.2.4.1, C405.2.4.2	Interior Lighting	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. []- Exception 1:C405.2.4: Spaces where health patient care is directly provided. []- Exception 2:C405.2.4: Lighting required to have specific application controls. []- Exception 3:C405.2.4: Sidelit zones on first floor in Group A-2 and M occupancies. []- Exception 4:C405.2.4: New buildings having total connected lighting power <= the adjusted interior lighting powered allowance (LPA adj, refer to section details and formula). []- Exception 5:C405.2.4: Requirement does not apply.	☐	☐	☐
6074 Wattage	C405.2.5	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. []- Exception 1:C405.7: Air-over electric motors. []- Exception 2:C405.7: Component sets of an electric motor. []- Exception 3:C405.7: Liquid-cooled electric motors. []- Exception 4:C405.7: Submersible electric motors. []- Exception 5:C405.7: Inverter-only electric motors. []- Exception 6:C405.7: Requirement does not apply.	☐	☐	☐
6077 Controls	C405.2.7	Exterior Lighting	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 50%. []- Exception 1:C405.2.7: Lighting for covered vehicle entrances and exits from buildings and parking structures where required for eye adaptation []- Exception 2:C405.2.7: Lighting controlled from within dwelling units []- Exception 3:C405.2.7: Requirement does not apply.	☐	☐	☐
6131 Wattage	C405.4.1	Exterior Lighting	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.	☐	☐	☐
6132 Mandatory Addit	C406.10	Project	Energy Monitoring - the building is equipped with an energy management system to monitor, record, and report energy consumption for electrical energy, by end-use category, contain meters, a data acquisition system and employ graphical reports.	☐	☐	☐

6133 Mandatory Addit	C406.11	Project	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐	☐	☐
6134 Mandatory Addit	C406.12	Project	Efficient Kitchen Equipment - the commercial kitchen has at least one fryer with all fryers, dishwashers, steam cookers and ovens complying with performance requirements of Tables C406.12(1) through C406.12(4).	☐	☐	☐
6185 Mandatory Addit	C406.2	Project	Equipment shall exceed the minimum efficiency requirements listed in Tables C403.2.3(1) through C403.2.3(7) by 10 %, in addition to the requirements of Section C403	☐	☐	☐
6135 Mandatory Addit	C406.2.1	Project	5% heating efficiency improvement - all HVAC and Plant heating equipment is 5% more efficient than required by 2021 IECC.	☐	☐	☐
6136 Mandatory Addit	C406.2.2	Project	5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.	☐	☐	☐
6137 Mandatory Addit	C406.2.3	Project	10% heating efficiency improvement - all HVAC and Plant heating equipment is 10% more efficient than required by 2021 IECC.	☐	☐	☐
6138 Mandatory Addit	C406.2.4	Project	10% cooling efficiency improvement - all HVAC and Plant cooling equipment is 10% more efficient than required by 2021 IECC.	☐	☐	☐
6139 Mandatory Addit	C406.3	Project	Reduced lighting power - this credit specifies that the connected lighting power is <= 10% more efficient than 2021 IECC requirements.	☐	☐	☐
6140 Mandatory Addit	C406.4	Project	Enhanced Digital Lighting Controls - Interior lighting has the following enhanced lighting controls in accordance with Sections C405.2.1 through C405.2.3, Luminaires capable of continuous dimming and being addressed individually, at least 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures with load shedding or occupancy sensors, Sequence of Operations documentation, and functional testing per Section C408.	☐	☐	☐
6143 Mandatory Addit	C406.5	Project	On-site renewable energy credits - on-site renewable energy system supplies at least 1.71 Btuh or 0.5 watts per square foot of conditioned floor area OR provides at least 2 percent of the energy used within the building for mechanical and service water heating equipment and lighting regulated in Chapter 4.	☐	☐	☐
6145 Mandatory Addit	C406.7.1	Project	Reduced energy use in service water heating - the hot water system contains waste heat recovery from service hot water, heat-recovery chillers, building equipment or process equipment or on-site renewable energy for water heating.	☐	☐	☐
6146 Mandatory Addit	C406.7.3	Project	Reduced energy use in service water heating - the hot water heating system shall have a capacity weighted average fossil fuel water heating efficiency at least 95 thermal efficiency or 0.95 EF.	☐	☐	☐

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6147 Mandatory Addit	C406.7.4	Project	Reduced energy use in service water heating - the hot water system is served by heat pump water heaters with a minimum Energy Factor of 3.0. The heat pump does not draw conditioned air from within the building.	☐	☐	☐
6148 Mandatory Addit	C406.8	Project	Enhanced envelope performance - the building thermal envelope UA value is >= 15% better than the total UA of the envelope specified by Section C402.1.5.	☐	☐	☐
6149 Mandatory Addit	C406.9	Project	Reduced air infiltration energy - the measured air-leakage rate of the building envelope is lower than 0.25 cfm/ft2. Comprehensive report documentation will be submitted to the code official and the building owner. []- Exception 1:C406.9: Building is greater than 250,000 square feet.	☐	☐	☐
6083 HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing. []- Exception 1:C408.2.2.1: Fans with fan motors of 1 hp (0.74 kW) or less. []- Exception 2:C408.2.2.1: Where throttling results in no greater than 1/3 hp fan horsepower draw above that required if the fan speed were adjusted []- Exception 3:C408.2.2.1: Requirement does not apply.	☐	☐	☐
6153 Testing	C408.2.3.2	Mechanical	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐	☐	☐
6104 SYSTEM_SPEC	Table_C403.2.3b	Mechanical	Heat Rejection Equipment - Propeller or Axial Fan Open-Circuit Cooling Tower: Minimum Efficiency Requirement >=40.2 gpm/hp .	☐	☐	☐
6105 SYSTEM_SPEC	Table_C403.2.3b	Mechanical	Heat Rejection Equipment - Centrifugal Fan Open-Circuit Cooling Tower: Minimum Efficiency Requirement >=20.0 gpm/hp.	☐	☐	☐
6106 SYSTEM_SPEC	Table_C403.2.3c	Mechanical	Heat Rejection Equipment - Propeller or Axial Fan Closed-Circuit Cooling Tower: Minimum Efficiency Requirement >=16.1 gpm/hp.	☐	☐	☐
6109 SYSTEM_SPEC	Table_C403.2.3c	Mechanical	Heat Rejection Equipment - Centrifugal Fan Closed-Circuit Cooling Tower: Minimum Efficiency Requirement >=7.0 gpm/hp	☐	☐	☐
6186 SYSTEM_SPEC	Table_C403.2.3d	Mechanical	Heat Rejection Equipment - Propeller or Axial Fan Dry Coolers (air-cooled fluid coolers): Minimum Efficiency Requirement >= 4.5 gpm/hp	☐	☐	☐
6111 SYSTEM_SPEC	Table_C403.2.3h	Mechanical	Heat Rejection Equipment - Propeller or Axial Evaporative Condenser: Minimum Efficiency Requirement >=134 kBtu/h-hp w/ Ammonia test fluid.	☐	☐	☐
6112 SYSTEM_SPEC	Table_C403.2.3h	Mechanical	Heat Rejection Equipment - Centrifugal Evaporative Condenser: Minimum Efficiency Requirement >=110 kBtu/h-hp w/ Ammonia test fluid.	☐	☐	☐
6117 SYSTEM_SPEC	Table_C403.2.3h	Mechanical	Heat Rejection Equipment - Propeller or Axial Evaporative Condenser: Minimum Efficiency Requirement >=160 kBtu/h-hp w/ R-448A test fluid.	☐	☐	☐

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6119 SYSTEM_SPEC	Table_C403.2.3h	Mechanical	Heat Rejection Equipment - Centrifugal Evaporative Condenser: Minimum Efficiency Requirement ≥ 137 kBtu/h-hp w/ R-448A test fluid.	☐	☐	☐
6121 SYSTEM_SPEC	Table_C403.2.3h	Mechanical	Heat Rejection Equipment - Air-Cooled Condensers: Minimum Efficiency Requirement ≥ 176 kBtu/h-hp	☐	☐	☐
4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy						
6041 Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value < 90 percent tested per ASTM D1003 unless designed to exclude direct sunlight. []- Exception 1:C402.4.2.2: Skylights designed to exclude direct sunlight entering the occupied space by the use of fixed or automated baffles, geometry of skylight and well, or optical diffusers. []- Exception 2:C402.4.2.2: Requirement does not apply.	☐	☐	☐
6179 Post Constructic	C405.1	Project	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. []- Exception 1:C405.1: Requirement does not apply.	☐	☐	☐
6180 Post Constructic	C405.11, C405.11.1	Project	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. []- Exception 1:C405.11_C405.11.1: Requirement does not apply.	☐	☐	☐
6181 Post Constructic	C405.12	Project	Buildings with gross conditioned floor area $\geq 25,000$ ft ² will be equipped with a energy monitoring system in compliance with C405.12.1 through C405.12.5. []- Exception 1:C405.12: Requirement does not apply.	☐	☐	☐
6079 Post Constructic	C405.5.3	Project	Total voltage drop across the combination of feeders and branch circuits $\leq 5\%$. []- Exception 1:C405.5.3: Requirement does not apply.	☐	☐	☐

6073 Post Constructic	C405.6	Project	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6. []- Exception 1:C405.6: Transformers meet the Energy Policy Act of 2005 special purposes exclusions. []- Exception 2:C405.6: Transformers meet the Energy Policy Act of 2005 non-general purpose exclusions. []- Exception 3:C405.6: Transformers meet the Energy Policy Act of 2005 exclusions with multiple voltage taps where the highest tap is >= 20% more than the lowest tap. []- Exception 4:C405.6: Drive transformers. []- Exception 5:C405.6: Rectifier transformers. []- Exception 6:C405.6: Auto-transformers. []- Exception 7:C405.6: Uninterruptible power system transformers. []- Exception 8:C405.6: Impedance transformers. []- Exception 9:C405.6: Regulating transformers. []- Exception 10:C405.6: Sealed and nonventilating transformers. []- Exception 11:C405.6: Machine tool transformers. []- Exception 12:C405.6: Welding transformers. []- Exception 13:C405.6: Grounding transformers. []- Exception 14:C405.6: Testing transformers. []- Exception 15:C405.6: Requirement does not apply.	☐	☐	☐
6075 Post Constructic	C405.7	Project	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).	☐	☐	☐
6078 Post Constructic	C405.8.1, C405.8.2	Project	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. []- Exception 1:C405.8.1_C405.8.2: A variable voltage drive system that reduces operating voltage in response to light loading is installed. []- Exception 2:C405.9.1_C405.9.2: Requirement does not apply.	☐	☐	☐
6150 Post Constructic	C408.1.1	Project	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.	☐	☐	☐

6151 Post Constructic	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	☐	☐	☐
6152 Post Constructic	C408.2.3.1	Mechanical	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation. []- Exception 1:C408.2.3.1: Unitary or packaged HVAC equipment without supply air economizers.	☐	☐	☐
6154 Post Constructic	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	☐	☐	☐
6156 Post Constructic	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐	☐	☐
6176 Post Constructic	C408.2.5	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐	☐	☐
6018 Post Constructic	C408.2.5.2	Mechanical	Furnished Operation and Maintenance manuals for HVAC systems within 90 days of system acceptance.	☐	☐	☐
6182 Post Constructic	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	☐	☐	☐
6183 Post Constructic	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐	☐	☐
6184 Post Constructic	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐	☐	☐
6177 Post Constructic	C408.3.2	Interior Lighting	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐	☐	☐
6017 Post Constructic	C408.3.2.2	Interior Lighting	Furnished operation and maintenance manual for lighting equipment and lighting controls provided to the building owner or designated representative.	☐	☐	☐

Input Data Report

Project Information

Project Name: 2653

Project Title: Grand Boulevard Office

Address: 585 Grand Boulevard

State: Florida

Zip: 32500

Owner: Grand Boulevard

Building Type: Office

Building Classification: Renovation to existing building

No.of Stories: 1

GrossArea (SF): 2,688

Bldg. Rotation: None

Zones

No	Acronym	Description	Type	Area [sf]	Multi	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	1816.0	1	1816.0	☐
2	Pr0Zo2	Zone 2	CONDITIONED	872.0	1	872.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi	Total Area [sf]	Total Vol[cf]	
In Zone: Pr0Zo1										
1	Pr0Zo1Sp1	Zo0Sp1	Office - Enclosed	56.75	32.00	12.00	1	1816.0	21792.0	☐
In Zone: Pr0Zo2										
1	Pr0Zo2Sp1	Zo0Sp1	Office - Enclosed	48.00	18.17	12.00	1	872.0	10464.2	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	
In Zone: Pr0Zo1							
In Space: Pr0Zo1Sp1							
1	LED	General Lighting	20	36	720	Manual (Local Control)-Manual (Local Control) Occupancy Sensor - Manual ON only-Occupancy Sensor - Manual ON only Occupant Sensor Auto Full OFF-Occupant Sensor Auto Full OFF	☐
2	LED	General Lighting	17	14	238	Manual (Local Control)-Manual (Local Control) Occupancy Sensor - Manual ON only-Occupancy Sensor - Manual ON only Occupant Sensor Auto Full OFF-Occupant Sensor Auto Full OFF	☐
In Zone: Pr0Zo2							
In Space: Pr0Zo2Sp1							
1	LED	General Lighting	16	18	288	Manual (Local Control)-Manual (Local Control) Occupancy Sensor - Manual ON only-Occupancy Sensor - Manual ON only Occupant Sensor Auto Full OFF-Occupant Sensor Auto Full OFF	☐

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec [ft]	Multi plier	Area [sf]	Orient ation	Cond- uctance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wa1	0.75 in. stucco, 2"styro,8"CMU,1x2x 24"oc,airspace,0.5"g yp	32.00	12.00	1	384.0	East	0.0838	11.224	50.24	11.9	☐
In Zone: Pr0Zo2												
1	Pr0Zo2Wa1	0.75 in. stucco, 2"styro,8"CMU,1x2x 24"oc,airspace,0.5"g yp	18.17	12.00	1	218.0	East	0.0838	11.224	50.24	11.9	☐
2	Pr0Zo2Wa2	0.75 in. stucco, 2"styro,8"CMU,1x2x 24"oc,airspace,0.5"g yp	48.00	12.00	1	576.0	South	0.0838	11.224	50.24	11.9	☐

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec [ft]	Multi plier	Total Area [sf]	
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1											
1	Pr0Zo1Wa1Wi1	East	No	0.6000	0.42	0.39	5.33	8.17	1	43.6	☐
2	Pr0Zo1Wa1Wi2	East	No	0.6000	0.42	0.39	6.17	8.17	2	100.7	☐
In Zone: Pr0Zo2											
In Wall: Pr0Zo2Wa1											
1	Pr0Zo2Wa1Wi1	East	No	0.6000	0.42	0.39	5.33	8.17	2	87.1	☐
In Wall: Pr0Zo2Wa2											
1	Pr0Zo2Wa2Wi1	South	No	0.6000	0.42	0.39	5.33	8.17	5	217.8	☐

Doors

No	Description	Type	Shade?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Dens. [lb/cf]	Ht Cap. [Btu/sf. F]	R [h.sf.F/ Btu]
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In Zone:

In Wall:

☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/h.Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
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In Zone: Pr0Zo1

1	Pr0Zo1Rf1	Conc Tile/1/2"WD Deck/WD Truss/9"Batt/Gyp	32.00	56.75	1	1816.0	0.00	0.0321	2.25	12.27	31.1	☐
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In Zone: Pr0Zo2

1	Pr0Zo2Rf1	Conc Tile/1/2"WD Deck/WD Truss/9"Batt/Gyp	18.17	48.00	1	872.0	0.00	0.0321	2.25	12.27	31.1	☐
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Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multi- plier	Area [Sf]	Total Area [Sf]
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In Zone:

In Roof:

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Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
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In Zone:

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Systems

Pr0Sy1	System 1	Constant Volume Packaged System	No. Of Units 1
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	83190.00	12.00	15.50	☐
2	Heating System	61470.00	3.71		☐
3	Air Handling System -Supply	2300.00	0.26		☐
4	Air Distribution System (Sup)		6.00		☐
5	Air Distribution System (Ret)		6.00		☐

Pr0Sy2	System 2	Constant Volume Packaged System	No. Of Units 1
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	60000.00	16.00		☐
2	Heating System	47000.00	5.00		☐
3	Air Handling System -Supply	2000.00	0.25		☐
4	Air Distribution System (Sup)		6.00		☐
5	Air Distribution System (Ret)		6.00		☐

Plant

Equipment	Category	Size	Inst.NdEff.	IPLV
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Water Heaters

W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss
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1 Electric Instantaneous Water Heater (1 units)	[Gal]		10 [Kw]	0.9800 [Ef/Et]	0.0200[Btu/h] ☐
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Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaires	Area/Len/No [sf/ft/No]	Control Type	Wattage [W]
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Piping

No	Type	Operating Temp [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
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1	Domestic and Service Hot Water Systems	105.00	0.28	0.75	0.50	No ☐
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Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
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ASHULDbI/TntW d-Vy-Fg frm	User Defined	2	0.6000	0.4200	0.3900
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Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thick [ft]	Cond- uctivity [Btu/h.ft.F]	Density [lb/cf]	Sp. Heat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
267	Matl267	0.75" stucco	No	0.1563	0.0625	0.4000	16.00	0.2000	☐
215	Matl215	POLYSTYRENE, EXP., 2IN,	No	8.3350	0.1667	0.0200	1.80	0.2900	☐
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
256	Matl256	WOOD, SOFT, 1-1/2IN	No	1.8939	0.1250	0.0660	32.00	0.3300	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐
185	Matl185	CLAY TILE, PAVER, 3/8IN	No	0.0301	0.0313	1.0410	120.00	0.2000	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1010	0.75 in. stucco, 2"styro,8"CMU,1x2x24"oc,airspace, 0.5" gyp	No	No	0.08	11.22	50.24	11.9	☐
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	267	0.75" stucco	0.0625	0.000			☐
	2	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000			☐
	3	215	POLYSTYRENE, EXP., 2IN,	0.1667	0.000			☐
	4	105	CONC BLK HW, 8IN, HOLLOW	0.6667	0.000			☐
	5	256	WOOD, SOFT, 1-1/2IN	0.1250	0.000			☐
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1040	Conc Tile/1/2"WD Deck/WD Truss/9"Batt/Gyp	No	No	0.03	2.25	12.27	31.1	☐
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	185	CLAY TILE, PAVER, 3/8IN	0.0313	0.000			☐
	2	244	PLYWOOD, 1/2IN	0.0417	0.000			☐
	3	12	3 in. Insulation	0.2500	0.000			☐
	4	23	6 in. Insulation	0.5000	0.000			☐
	5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000			☐