PROJECT: 26015

MIKADO BAPTIST CHURCH

FELLOWSHIP HALL

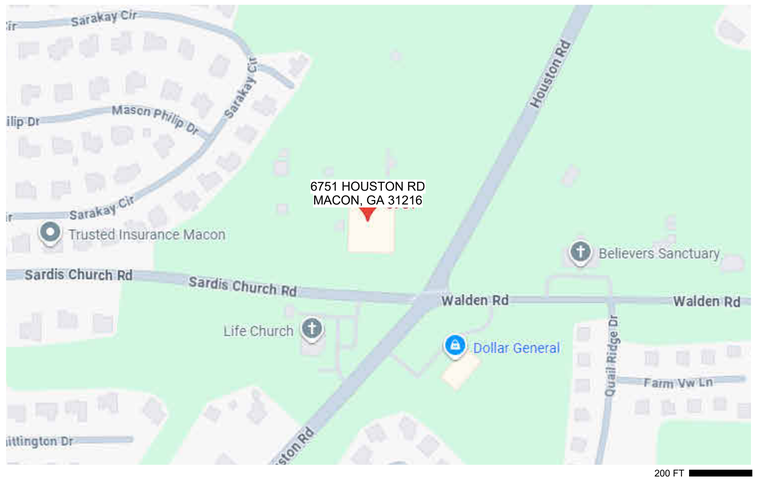
6751 HOUSTON RD
MACON, GA 31216



DESIGN DEVELOPMENT

OCTOBER 26, 2026

VICINITY MAP



PROJECT DIRECTORY

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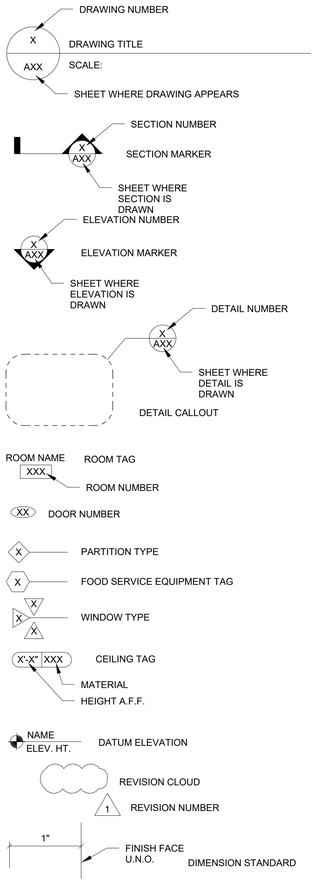
CLIENT

MIKADO CHURCH

CONTACT: CONTACT NAME
E-MAIL: EMAIL

SYMBOL LEGEND



PROJECT SUMMARY

THIS PROJECT CONSISTS OF THE NEW CONSTRUCTION FOR MIKADO BAPTIST CHURCH AT 6751 HOUSTON ROAD, MACON, GEORGIA. THE PROPOSED FELLOWSHIP HALL WILL PROVIDE DEDICATED HIGH SCHOOL AND MIDDLE SCHOOL AUDITORIUMS, A CENTRAL GATHERING SPACE, A CLASSROOM/CONFERENCE ROOM, ADMINISTRATIVE OFFICES, RESTROOMS, AND SUPPORT AREAS DESIGNED TO OPTIMIZE BUILDING OCCUPANCY FUNCTIONS.

CODE & ZONING SUMMARY

JURISDICTION

MACON-BIBB COUNTY BUILDING AND FIRE SAFETY DEPARTMENT

APPLICABLE CODES

BUILDING:	INTERNATIONAL BUILDING CODE, 2024 EDITION WITH GA AMENDMENTS (2025)(2026)
LIFE SAFETY:	NFPA 101 LIFE SAFETY CODE (LSC), 2024 EDITION WITH GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3.04
FIRE:	INTERNATIONAL FIRE CODE, 2024 EDITION (NO GA AMENDMENTS)
MECHANICAL:	INTERNATIONAL MECHANICAL CODE, 2024 EDITION WITH GA AMENDMENTS (2026)
PLUMBING:	INTERNATIONAL PLUMBING CODE, 2024 EDITION WITH GA AMENDMENTS (2026)
FUEL GAS:	INTERNATIONAL FUEL GAS CODE, 2024 EDITION WITH GA AMENDMENTS (2026)
ELECTRICAL:	NATIONAL ELECTRIC CODE, 2023 EDITION WITH GA AMENDMENTS (2026)
ENERGY:	INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION WITH GA AMENDMENTS (2020)(2022)(2023)
ACCESSIBILITY:	GEORGIA ACCESSIBILITY CODE 120-3-20 (.01-.08) WITH 2020 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH 11 / 2010 DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN ("2010 ADA")
OTHER:	CURRENT EDITION OF NFPA CODES AND STANDARDS AS ADOPTED AND MODIFIED BY THE STATE FIRE MARSHAL

BUILDING DATA

OCCUPANCY CLASSIFICATION
NFPA 101 LSC CHAPTER 12 - NEW ASSEMBLY OCCUPANCIES

SUPPLEMENTARY (PER IBC CHAPTER 3):
A-3 ASSEMBLY (PRIMARY)

DESCRIPTION: NEW CONSTRUCTION

NEW BUILDING INFORMATION

SPRINKLERS	NO
STANDPIPES (IBC 905, LSC 9.7.4.2)	NO
HIGH RISE (IBC 403)	NO
MEZZANINE (IBC 505)	YES
FIRE ALARM (IBC 907, LSC 9.6)	YES

CONSTRUCTION TYPE:
II-B, (IBC TABLE 602.5) - METAL-FRAMED BUILDING W/ METAL-FRAMED INTERIOR PARTITIONS

TYPE II (0,0,0) (LSC TABLE A.8.2.1)

BUILDING HEIGHT:
ALLOWED: 55' (IBC TABLE 504.3)
PROPOSED: 22-0"±

NUMBER OF STORIES:
ALLOWED: 2 (IBC TABLE 504.4)
PROPOSED: 1

TOTAL SQUARE FOOTAGE:
ALLOWABLE: 9,500 SF (IBC TABLE 506.2)

PROPOSED FOOTPRINT:
MAIN LEVEL (CONDITIONED): 9,911 SF

ZONING CLASSIFICATION
A - AGRICULTURAL

CLIMATE ZONE
CLIMATE ZONE 3A

TOTAL OCCUPANCY LOAD (NFPA 101 LSC TABLE 7.3.1.2)
TBD

GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE ADOPTED CODES, STATE OF GEORGIA AMENDMENTS, AND ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. DO NOT SCALE DRAWINGS.

B. DEVIATIONS FROM THESE DRAWINGS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM ALL ARCHITECTURE, LLC.

C. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, DIMENSIONS, GRADES, ELEVATIONS, PROPERTY LINES, SETBACKS, UTILITY LOCATIONS, AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

D. ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS FOUND IN THE DRAWINGS OR FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

E. ALL MATERIALS SHALL BE NEW, UNDAMAGED, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER 'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS.

F. CONTRACTOR SHALL MAINTAIN SAFE WORKING CONDITIONS AT ALL TIMES AND COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.

G. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, UTILITIES, STRUCTURES, PUBLIC RIGHT-OF-WAY, AND SITE IMPROVEMENTS DURING CONSTRUCTION. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR.

H. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

I. INTERIOR PARTITIONS SHALL BE CONSTRUCTED AS INDICATED IN THE DRAWINGS. CONTRACTOR SHALL COORDINATE WALL THICKNESS WITH STRUCTURAL REQUIREMENTS, FINISHES, AND ALL REQUIRED BUILDING SYSTEMS.

J. CONTRACTOR SHALL VERIFY ALL CEILING HEIGHTS, ROOF STRUCTURE, ATTIC AREAS, ABOVE-CEILING CONDITIONS, AND REQUIRED CLEARANCES PRIOR TO INSTALLATION OF FINISHES, EQUIPMENT, AND ACCESS PANELS.

K. PROVIDE BLOCKING OR BACKING AS REQUIRED FOR WALL-MOUNTED EQUIPMENT, MILLWORK, HANDRAILS, CABINETRY, MONITORS, GRAB BARS, ACCESSORIES, AND OWNER-FURNISHED ITEMS.

L. CONTRACTOR SHALL COORDINATE ALL WALL, FLOOR, ROOF, CEILING, AND SLAB OPENINGS REQUIRED FOR BUILDING SYSTEMS, STRUCTURAL COMPONENTS, AND SPECIALTY EQUIPMENT INSTALLATIONS.

M. ALL PENETRATIONS THROUGH WALLS, FLOORS, ROOFS, AND CEILINGS SHALL BE SEALED AND FINISHED TO MATCH ADJACENT SURFACES AND MAINTAIN REQUIRED FIRE, AIR, WATER, AND THERMAL PERFORMANCE REQUIREMENTS.

N. CONTRACTOR SHALL COORDINATE LIGHTING, HVAC COMPONENTS, FIRE PROTECTION COMPONENTS IF REQUIRED, ACCESS PANELS, CEILING ELEMENTS, AND ABOVE-CEILING EQUIPMENT WITH ARCHITECTURAL DRAWINGS.

O. ALL ACCESSIBLE ROUTES, ENTRANCES, PARKING SPACES, RESTROOMS, DOORS, TURNING RADII, COUNTERS, FIXTURES, AND CLEARANCES SHALL COMPLY WITH APPLICABLE ACCESSIBILITY REQUIREMENTS.

P. CONTRACTOR SHALL VERIFY ALL REQUIRED ACCESSIBILITY CLEARANCES PRIOR TO INSTALLATION OF WALLS, DOORS, FIXTURES, CABINETRY, CASEWORK, EQUIPMENT, AND ACCESSORIES.

Q. NEW UTILITIES SHALL BE COORDINATED, INSTALLED, CONNECTED, AND PROTECTED THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS, APPROVED CONSTRUCTION DOCUMENTS, AND APPLICABLE CODES.

R. ANY TEMPORARY, ABANDONED, OR UNUSED MATERIALS, EQUIPMENT, OR UTILITY CONNECTIONS SHALL BE REMOVED OR TERMINATED IN A SAFE AND CODE-COMPLIANT MANNER UNLESS NOTED OTHERWISE.

S. CONTRACTOR SHALL SCHEDULE, COORDINATE, AND OBTAIN ALL REQUIRED INSPECTIONS, APPROVALS, AND FINAL ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.

T. FIRE EXTINGUISHERS SHALL BE PROVIDED IN LOCATIONS REQUIRED BY APPLICABLE CODES AND FIRE SAFETY REQUIREMENTS. FINAL LOCATIONS SHALL BE COORDINATED WITH THE FIRE MARSHAL.

U. FIRE EXTINGUISHERS SHALL DISPLAY CURRENT SERVICE TAGS INSTALLED BY A PROPERLY CERTIFIED TECHNICIAN.

V. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED AS FOLLOWS AND SHALL BE RESTRICTED FOR USE BY THE FOLLOWING TABLE AS DEFINED IN NFPA 101 LSC 2024 10.2.3.3.

CLASS	FLAME SPREAD	SMOKE DEVELOPMENT
A	0 - 25	0 - 450
B	26 - 75	0 - 450
C	76 - 200	0 - 450

W. REQUIRED WALL AND CEILING FINISHES PER PROJECT USE GROUPS ARE AS FOLLOWS (REFERENCE NFPA 101 LSC 10.2). CONTRACTOR TO VERIFY EXISTING AND UPGRADE TO THE FOLLOWING IF NECESSARY:

	FINISH CLASSIFICATION		
USE GROUP	EXIT ENCLOSURES	CORRIDORS	ROOMS
N ASSEMBLY >300	A	B	B

X. ALL EXTERIOR WALLS, WINDOWS, DOORS, OPENINGS, FLASHINGS, ROOF ASSEMBLIES, AND ROOF PENETRATIONS SHALL BE INSTALLED WEATHER-TIGHT TO PREVENT WATER AND AIR INFILTRATION.

Y. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL, ARCHITECTURAL, BUILDING SYSTEM, OR MILLWORK COMPONENTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER-FURNISHED EQUIPMENT, FURNITURE, SPECIALTY ITEMS, AND FINAL OPERATIONAL REQUIREMENTS PRIOR TO INSTALLATION.

DRAWING LIST

SHEET NUMBER	SHEET NAME
GENERAL	
G0.0	COVER SHEET
G0.1	ADA DETAILS & PARTITION TYPES
ARCHITECTURAL	
A2.0	MAIN LEVEL ARCHITECTURAL FLOOR PLAN
A2.1	MAIN LEVEL REFLECTED CEILING PLAN
A3.0	ARCHITECTURAL ELEVATIONS
A4.0	ARCHITECTURAL SECTIONS
A4.1	WALL SECTION & DETAIL
A6.0	DOOR AND WINDOW SCHEDULE & DETAILS
A6.1	3D EXTERIOR & INTERIOR PERSPECTIVES
ELECTRICAL	
E0.1	GENERAL
E0.2	ONE-LINE DIAGRAM & SCHEDULES
E0.3	SCHEDULES & COMPLIANCE REPORT
E1.0	FLOOR PLAN - POWER
E2.0	FLOOR PLAN - LIGHTING
MECHANICAL	
M0.1	GENERAL
M0.2	DETAILS
M0.3	SCHEDULES
M0.4	SCHEDULES
M2.0	FLOOR PLAN MECHANICAL
PLUMBING	
P0.1	GENERAL
P0.2	SCHEDULES & DETAILS
P2.0	FLOOR PLANS
P2.1	ENLARGED PLANS

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
B.O.J.	BOTTOM OF JOIST
B/W	BETWEEN
CLG	CEILING
CONC.	CONCRETE
DIA.	DIAMETER
DWG(S)	DRAWING, DRAWINGS
E	EXISTING
EA.	EACH
EGSB	EXTERIOR GYPSUM SOFFIT BOARD, PAINTED
ELEC.	ELECTRICAL
E.P.	ELECTRICAL PANEL
EX, EXIST.	EXISTING
FAC	FACTORY
FE	WALL-MOUNTED FIRE EXTINGUISHER
F.O.	FACE OF
GA.	GAUGE
GL	GLASS / GLAZING
GWB	GYPSUM WALL BOARD
HCWD	HOLLOW CORE WOOD DOOR
HT.	HEIGHT
IAW	IN ACCORDANCE WITH
JT.	JOINT
MANUF.	MANUFACTURER
MATL	MATERIAL
MECH.	MECHANICAL
MTL	METAL
N	NEW
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
OCC	OCCUPANT(S)
O.H.	OPPOSITE HAND
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
O.T.S.	OPEN TO STRUCTURE
P.T.	PRESSURE-TREATED
PTD	PAINTED
QTY.	QUANTITY
R	RISER
RCP	REFLECTED CEILING PLAN
REQ'D	REQUIRED
SCWD	SOLID CORE WOOD DOOR
SF	SQUARE FEET
SHT.	SHEET
SIM.	SIMILAR
STD	STAINED
STL	STEEL
T	TREAD
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W/	WITH
WD	WOOD

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PROJECT ADDRESS: 6751 HOUSTON RD MACON, GA 31216

STAMP:

PRELIMINARY
10/26/26

DRAWN: JRM	CHECKED: JRM
APPROVED: JCA	ISSUE DATE: 10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME: COVER SHEET

PROJECT NUMBER: 26015

SHEET NUMBER: G0.0

PLOT DATE: 10/27/2026 3:20:19 AM

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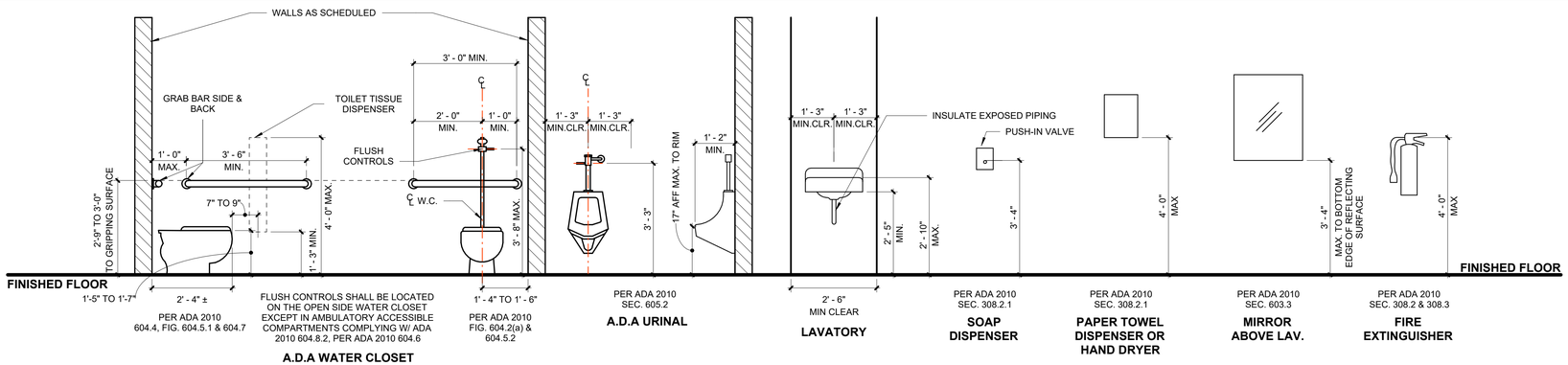
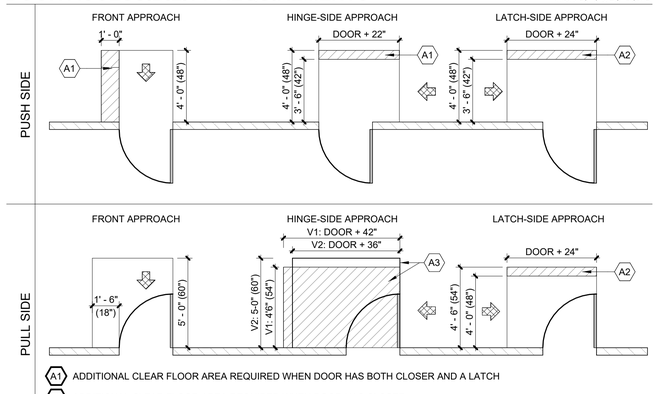


MOUNTING HEIGHTS FOR FIXTURES & ACCESSORIES

NOTE: NOT ALL ELEMENTS MAY BE PART OF THIS PROJECT - SEE PLANS

DOOR ACCESSIBILITY REQUIREMENTS

ADA 2010 SEC. 404.2



A1 ADDITIONAL CLEAR FLOOR AREA REQUIRED WHEN DOOR HAS BOTH CLOSER AND A LATCH

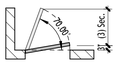
A2 ADDITIONAL CLEAR FLOOR AREA REQUIRED WHEN DOOR HAS CLOSER

A3 ALTERNATIVE CLEAR FLOOR AREAS BASED ON APPROACH CLEARANCES

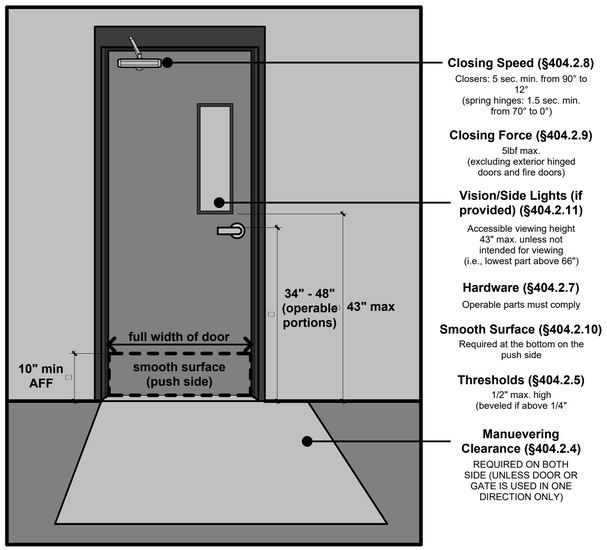
CLOSER

EACH DOOR CONTRACTOR(S) (ALUM. STOREFRONT/WOOD/HOLLOW METAL) SHALL BE RESPONSIBLE TO ADJUST ALL INTERIOR DOORS SO THAT THE DOOR'S REQUIRED OPENING FORCE IS 5 lbs OR LESS. ANY DOOR WITH A CLOSER SHALL BE ADJUSTED TO SLOW THE CLOSING TIME TO A MINIMUM OF THREE SECONDS FROM A STARTING POINT OF 70° OPEN TO 3" FROM CLOSING.

REFER TO DIAGRAM:



DOOR ACCESSIBILITY DETAILS



Closing Speed (§404.2.8)
Closers: 5 sec. min. from 90° to 12°
(spring hinges: 1.5 sec. min. from 70° to 0°)

Closing Force (§404.2.9)
5lbf max.
(excluding exterior hinged doors and fire doors)

Vision/Side Lights (if provided) (§404.2.11)
Accessible viewing height 43" max. unless not intended for viewing (i.e., lowest part above 66")

Hardware (§404.2.7)
Operable parts must comply

Smooth Surface (§404.2.10)
Required at the bottom on the push side

Thresholds (§404.2.5)
1/2" max. high
(beveled if above 1/4"

Manuevering Clearance (§404.2.4)
REQUIRED ON BOTH SIDE (UNLESS DOOR OR GATE IS USED IN ONE DIRECTION ONLY)

DOOR ACCESSIBILITY DETAIL ELEVATION

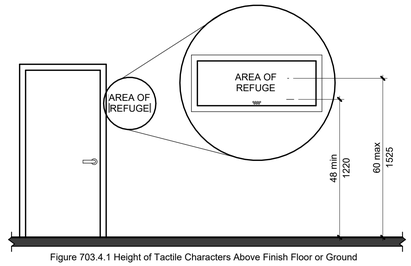


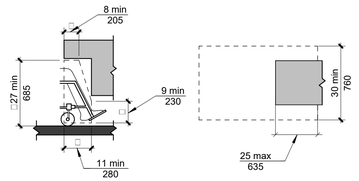
Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

Figure 703.4.2 Location of Tactile Signs at Doors

LOCATION OF TACTILE SIGNS AT DOORS

KNEE CLEARANCE ADA 2010 FIG. 306.3



TOE CLEARANCE ADA 2010 FIG. 306.2

PARTITION NOTES

A. PARTITIONS EXTEND UP TO UNDERSIDE OF FLOOR SYSTEM OR STRUCTURE ABOVE U.N.O.

B. ALL STUD CAVITIES ARE TO BE FILLED WITH BATT INSULATION. WRAP ALL OUTLET/SWITCH BOXES AND OTHER WALL PENETRATIONS IN MINERAL WOOL FOR SOUND PURPOSES.

C. SEE ELEVATIONS, SECTIONS AND OTHER DRAWINGS FOR FEATURES, EXCEPTIONS AND DEVIATIONS FROM PARTITION TYPE DESIGNATIONS.

D. SEAL PARTITIONS TIGHT TO ADJACENT SURFACES TO DISALLOW AIR INFILTRATION TO OR FROM ROOM. PLUG OR SEAL GAPS.

E. FASTENING OF GWB TO COMPLY WITH GYPSUM BOARD MANUFACTURERS INSTALLATION INSTRUCTIONS.

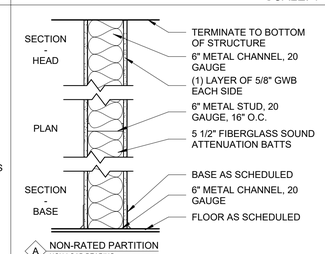
F. PROVIDE MOISTURE RESISTANT GWB IN ALL WET AREAS.

G. PROVIDE CEMENTITIOUS BACKER BOARD BEHIND TILE.

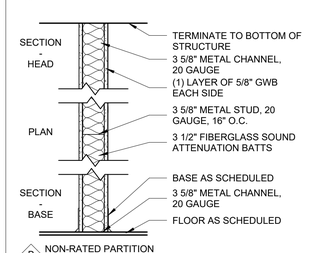
H. PROVIDE BLOCKING BEHIND WALL FINISH AT ACCESSORIES AND WHERE TRIM AND OTHER FINISHES ARE SHOWN.

PARTITION TYPES

SCALE: 1" = 1'-0"



A NON-RATED PARTITION
NON-LOAD BEARING



B NON-RATED PARTITION
NON-LOAD BEARING

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JRM	JRM
APPROVED:	ISSUE DATE:
JCA	10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME: ADA DETAILS & PARTITION TYPES

PROJECT NUMBER: 26015

SHEET NUMBER: G0.1

PLOT DATE: 10/27/2026 3:20:20 AM

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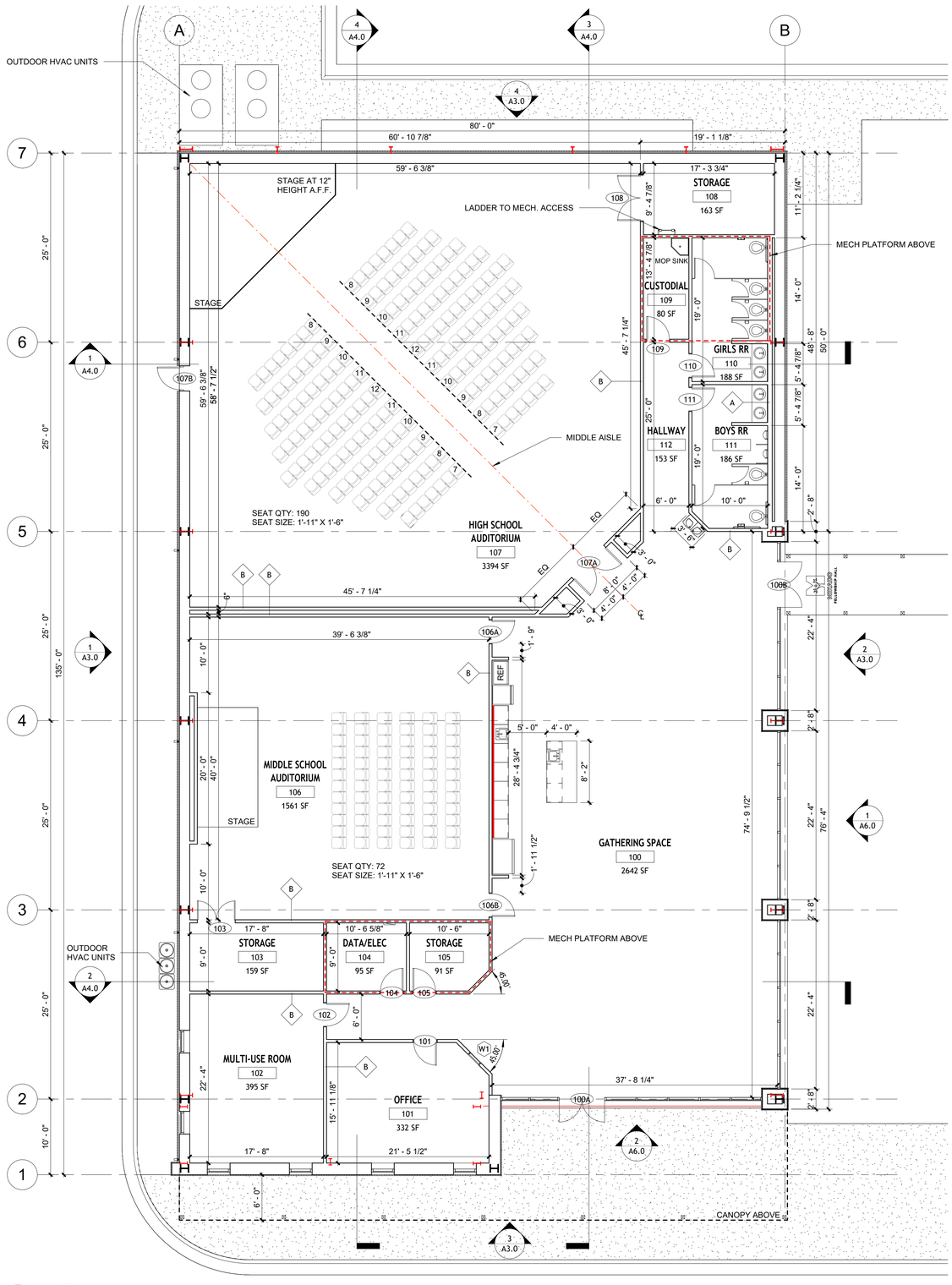

1 A2.0 MAIN LEVEL ARCHITECTURAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 4 8 16

CONSTRUCTION NOTES

1. ALL WORK SHALL CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS, APPLICABLE BUILDING CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
2. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. NOTIFY DESIGNER/OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES, ELEVATIONS, SETBACKS, AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. DIMENSIONS ARE TO FACE OF FINISH, UNLESS NOTED OTHERWISE.
5. ALL NEW WALLS SHALL BE INSTALLED PLUMB, LEVEL, SQUARE, AND TRUE TO LINE AS INDICATED ON THE DRAWINGS.
6. WALL TYPES, ASSEMBLIES, AND MATERIALS SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY APPLICABLE CODES.
7. PROVIDE SOLID BLOCKING OR BACKING IN WALLS AS REQUIRED FOR CABINETS, SHELVING, HANDRAILS, GUARDRAILS, GRAB BARS, ACCESSORIES, EQUIPMENT, AND OTHER WALL-MOUNTED ITEMS.
8. VERIFY ALL DOOR AND WINDOW ROUGH OPENINGS PRIOR TO ORDERING OR INSTALLATION.
9. DOOR AND WINDOW LOCATIONS SHALL BE COORDINATED WITH WALL LAYOUTS, STRUCTURAL FRAMING, FINISHES, AND MANUFACTURER REQUIREMENTS.
10. DOORS SHALL BE LOCATED AS DIMENSIONED ON THE DRAWINGS. WHERE NOT DIMENSIONED, LOCATE DOOR OPENINGS 4 INCHES FROM ADJACENT PERPENDICULAR WALL TO INSIDE FACE OF ROUGH OPENING, UNLESS NOTED OTHERWISE.
11. ALL EXTERIOR DOORS, WINDOWS, AND PENETRATIONS SHALL BE FLASHED, SEALED, AND INTEGRATED WITH THE WEATHER-RESISTIVE BARRIER TO PROVIDE A WEATHER-TIGHT INSTALLATION.
12. MAINTAIN REQUIRED CLEARANCES AT DOORS, HALLWAYS, STAIRS, LANDINGS, PLUMBING FIXTURES, APPLIANCES, EQUIPMENT, AND ACCESS PANELS.
13. COORDINATE ALL ARCHITECTURAL LAYOUTS WITH STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING.
14. COORDINATE FLOOR PLAN LAYOUT WITH FOUNDATION, FRAMING, ROOF PLAN, REFLECTED CEILING PLAN, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, SECTIONS, AND DETAILS.
15. VERIFY ALL REQUIRED OPENINGS, CHASES, SOFFITS, FURRED WALLS, ACCESS PANELS, AND EQUIPMENT CLEARANCES PRIOR TO FRAMING.
16. PROVIDE SMOKE ALARMS, CARBON MONOXIDE ALARMS, EGRESS OPENINGS, GUARDS, HANDRAILS, AND OTHER LIFE SAFETY COMPONENTS AS REQUIRED BY APPLICABLE CODES.
17. STAIRWAYS, GUARDS, HANDRAILS, LANDINGS, AND REQUIRED EGRESS COMPONENTS SHALL COMPLY WITH APPLICABLE CODE REQUIREMENTS.
18. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING FOUNDATION AND COORDINATE EXTERIOR GRADES WITH DOOR THRESHOLDS, PORCHES, STEPS, WALKS, AND SITE CONDITIONS.
19. FINISH FLOOR ELEVATIONS, FLOOR TRANSITIONS, THRESHOLDS, AND FLOOR MATERIAL CHANGES SHALL BE COORDINATED TO PROVIDE PROPER ALIGNMENT AND FUNCTION.
20. ALL EXTERIOR WALLS, ROOFS, OPENINGS, AND PENETRATIONS SHALL BE COORDINATED TO PROVIDE A COMPLETE WEATHER-TIGHT BUILDING ENVELOPE.
21. ALL MATERIALS, FIXTURES, EQUIPMENT, APPLIANCES, AND FINISHES SHALL BE NEW UNLESS NOTED OTHERWISE.
22. WHERE ACCESSIBILITY REQUIREMENTS APPLY, PROVIDE REQUIRED CLEARANCES, ROUTES, THRESHOLDS, SLOPES, MOUNTING HEIGHTS, AND OPERABLE PARTS IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY STANDARDS.
23. ANY CONFLICTS BETWEEN ARCHITECTURAL LAYOUT, STRUCTURAL REQUIREMENTS, MEP REQUIREMENTS, OR FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGNER/OWNER PRIOR TO PROCEEDING.

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PROJECT NAME: MIKADO BAPTIST CHURCH FELLOWSHIP HALL

PROJECT ADDRESS: 6751 HOUSTON RD MACON, GA 31216

STAMP:

PRELIMINARY
10/26/26

DRAWN:	CHECKED:
JRM	JRM
APPROVED:	ISSUE DATE:
JCA	10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME: MAIN LEVEL ARCHITECTURAL FLOOR PLAN

PROJECT NUMBER: 26015

SHEET NUMBER: A2.0

PLOT DATE: 10/27/2026 3:20:21 AM

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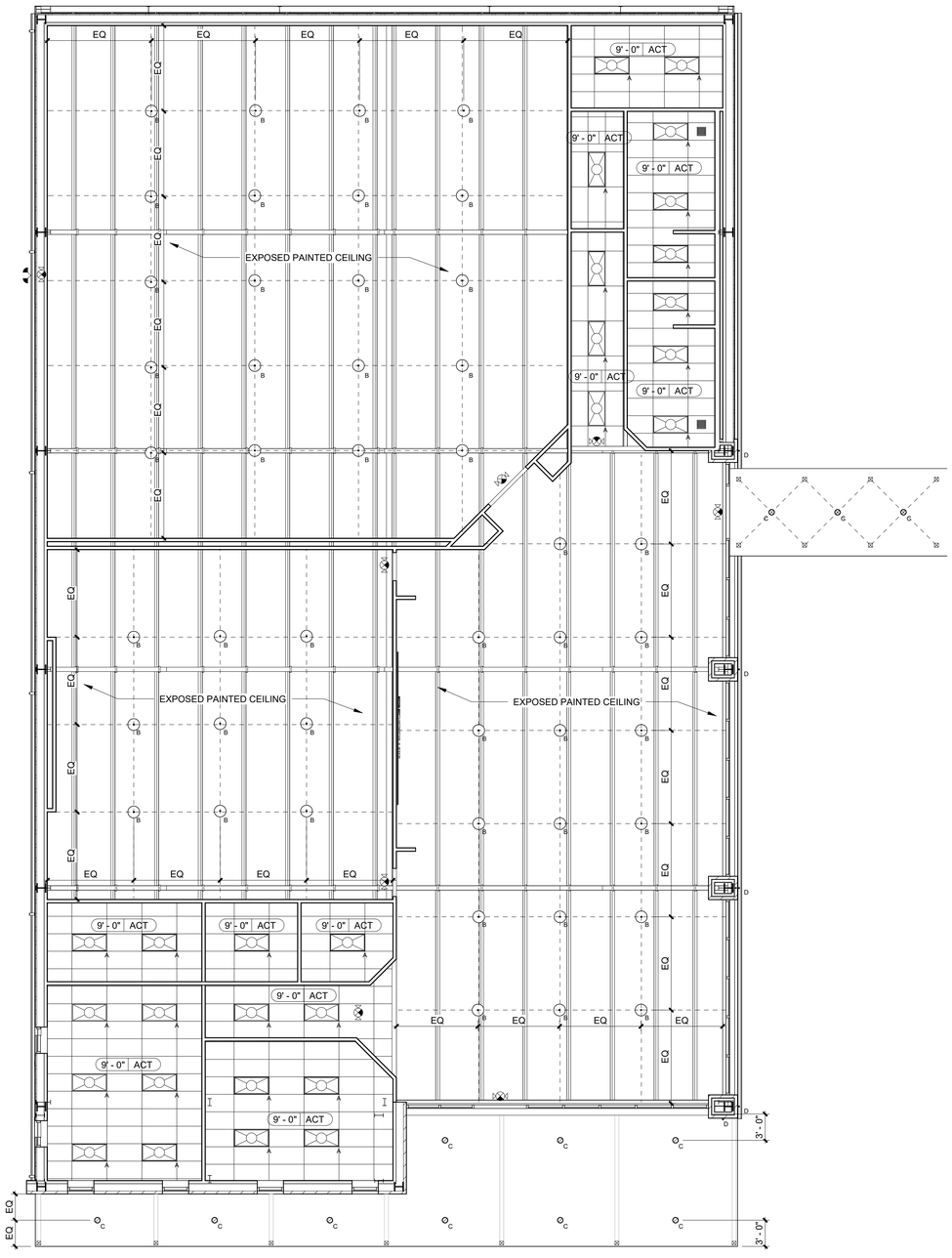

1 / A2.1 — MAIN LEVEL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0 4 8 16

RCP LEGEND

CEILING SYMBOLS / TAXES

XX-I-XXX

MATERIAL
HEIGHT A.F.F.

CEILING ALIGNMENT SYMBOL

INDICATING INTERSECTION OF A CEILING GRID & ITS ALIGNMENT TO THE CORNER OF THE OBJECT HIGHLIGHTS, G.C. TO COORD. TYP.

SEE FINISH PLAN FOR ADDITIONAL INFORMATION

ELECTRICAL - SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE

CEILING TYPES

2' x 2' ACOUSTICAL CEILING TILE, SEE FINISH SCHEDULE

PAINTED GYPSUM BOARD, SEE FINISH SCHEDULE

EXPOSED PAINTED CEILING

LIGHT FIXTURES

A — 2' x 2' LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE

B — PENDANT LIGHT, TBD

C — S.M.C. LIGHT TBD

D — EXTERIOR WALL SCONCE

COMBO EXIT SIGN

REMOTE LAMP HEAD

MECHANICAL

2' x 2' SUPPLY DIFFUSER, SEE MECHANICAL

2' x 2' RETURN AIR GRILLE, SEE MECHANICAL

BATHROOM EXHAUST FAN

REFLECTED CEILING PLAN

1. WHERE DISCREPANCIES OCCUR BETWEEN DISCIPLINES, CONTACT ARCHITECT TO DETERMINE THE PROPER CONFIGURATION, LAYOUT OR INTENT. FOR PRICING/BIDDING, THE MORE COSTLY LAYOUT CONFIGURATION SHALL BE PRICED.
2. REFER TO THE ARCHITECTURAL FLOOR PLANS AND PARTITION DRAWINGS FOR THE EXACT LOCATIONS AND TYPES OF WALLS OR PARTITIONS SHOWN ON THE CEILING PLANS. THE FLOOR PLAN LOCATIONS SHALL GOVERN.
3. REFER TO FLOOR PLANS FOR THE EXACT LOCATIONS OF DOORS AND DIRECTION OF DOOR SWINGS.
4. CEILING HEIGHT DIMENSIONS ARE GIVEN TO THE FINISH SURFACE OF THE CEILINGS.
5. THE CEILING SYSTEMS SHALL PROVIDE FOR THE SUPPORT OF LIGHTING FIXTURES, MECHANICAL GRILLES & DIFFUSERS, AND ALL OTHER CEILING-LOCATED DEVICES, THROUGH NORMAL ATTACHMENT TO STRUCTURE ABOVE. ATTACHMENT OF HANGERS OR FRAMING TO DUCTWORK, PIPING, CEILING GRID, OR OTHER NON-STRUCTURAL COMPONENTS IS PROHIBITED.
6. WHERE INTERFERENCE CAUSED BY DUCTWORK, PIPING, STRUCTURAL FRAMING, OR OTHER BUILDING SYSTEMS PREVENTS SECURING METAL STUDS VERTICALLY, PROVIDE SUPPLEMENTAL BRACING OR FRAMING TO STRUCTURE ABOVE IN AN APPROVED METHOD. COORDINATE ATTACHMENTS WITH THE BUTLER STRUCTURAL SYSTEM.
7. LIGHT FIXTURES, MECHANICAL SYSTEM FIXTURES, AND SPECIAL SYSTEMS FIXTURES EXPOSED TO VIEW SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE EXACT LOCATIONS OF ALL CEILING ITEMS NOT DIMENSIONED ON THIS OR OTHER DRAWINGS IN THE FIELD WITH THE ARCHITECT. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND OTHER DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING ALONG WITH SHOP DRAWING FIXTURE SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK.
8. LIGHT FIXTURES ARE SHOWN FOR GENERAL FIXTURE TYPE, QUANTITY & LOCATION ONLY. SEE ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING. SIMILARLY, FOR MECHANICAL GRILLES, DIFFUSERS & REGISTERS, SEE MECHANICAL DRAWINGS FOR SIZING, DISTRIBUTION, CONNECTIONS AND ALL OTHER MECHANICAL REQUIREMENTS.
9. WHERE PARTITIONS ABUT EXTERIOR METAL WALL PANELS, STRUCTURAL COLUMNS, OR WINDOW MULLIONS, COORDINATE PARTITION TERMINATION, INSULATION, SEALANTS, AND CLOSURE CONDITIONS WITH THE ARCHITECTURAL DETAILS AND BUTLER BUILDING SYSTEM.
10. IN LAYING OUT SUSPENDED ACOUSTICAL TILE CEILING (ACT) GRIDS, NO TILE DIMENSION SHALL BE LESS THAN 4" IN ANY DIRECTION. SLIVERS ARE NOT ACCEPTABLE.
11. UNLESS SPECIFICALLY NOTED, OR OTHERWISE DIMENSIONALLY SHOWN ON THE DRAWINGS, FIXTURES IN GRID CEILINGS SHALL BE LOCATED ON THE CENTER OF THE CEILING GRID TILES. THE CONTRACTOR SHALL BE AWARE OF THIS REQUIREMENT AND COORDINATE THE WORK AS NECESSARY WITH OTHER TRADES INVOLVED.
12. CONTRACTOR SHALL VERIFY AND COORDINATE THE INSTALLATION AND ROUTING OF ALL THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS, TO THE FIXTURES AND ELEMENTS SHOWN IN THE CEILING PLAN WITH BUTLER STRUCTURAL FRAMES, PURLINS, GIRTS, BRACING, LIGHTING FIXTURES, MECHANICAL DUCTS AND PIPING, SPRINKLER SYSTEMS, RACEWAYS, CONDUITS, INSULATION AND CEILING SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED ON THE DRAWINGS.
13. ANY CONFLICTS RESULTING FROM THE INABILITY TO ROUTE THE TRADES AS INTENDED SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY WORK INVOLVING THE LOWERING OF ANY CEILING SURFACE OR MODIFICATION OF ARCHITECTURAL LAYOUT.
14. PATTERN OR TEXTURE OF CEILING TILES SHALL RUN IN ONE DIRECTION. DIRECTION SHALL BE ACROSS SHORTEST DISTANCE BETWEEN DEMISING WALLS UNLESS OTHERWISE INDICATED.
15. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL EQUIPMENT AND ELEMENTS REQUIRING ACCESS FOR MAINTENANCE, OPERATION OR INSPECTIONS. PLACEMENT SHALL OCCUR WITHIN ACCESSIBLE CEILING SYSTEMS WHENEVER POSSIBLE OR PERMITTED BY CODE.
16. WHERE IT IS UNAVOIDABLE TO LOCATE AN ACCESS PANEL WITHIN AN INACCESSIBLE CEILING, WHICH HAS NOT BEEN SPECIFICALLY SHOWN OR LOCATED ON THE DRAWINGS, THE CONTRACTOR SHALL COORDINATE THE ACCESS PANEL LOCATION WITH LOCATIONS OF OTHER CEILING MOUNTED DEVICES AND BRING THE CONDITION TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL, OR OTHER RESOLUTION FOR LOCATION.
17. THE G.C. IS TO COORDINATE ALL WORK OF ALL SUBCONTRACTORS & ENSURE THAT NO CONFLICTS OCCUR BETWEEN THE TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, METAL STUD FRAMING, AND THE BUTLER PRE-ENGINEERED METAL BUILDING SYSTEM.
18. DO NOT CUT, DRILL, WELD TO, REMOVE, RELOCATE, OR OTHERWISE MODIFY BUTLER PRIMARY FRAMES, PURLINS, GIRTS, BRACING, OR OTHER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER AND/OR BUTLER BUILDING MANUFACTURER.

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6751 HOUSTON RD
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JCA	10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME:
MAIN LEVEL REFLECTED CEILING PLAN

PROJECT NUMBER: 26015

SHEET NUMBER:
A2.1

PLOT DATE: 10/27/2026 3:20:24 AM

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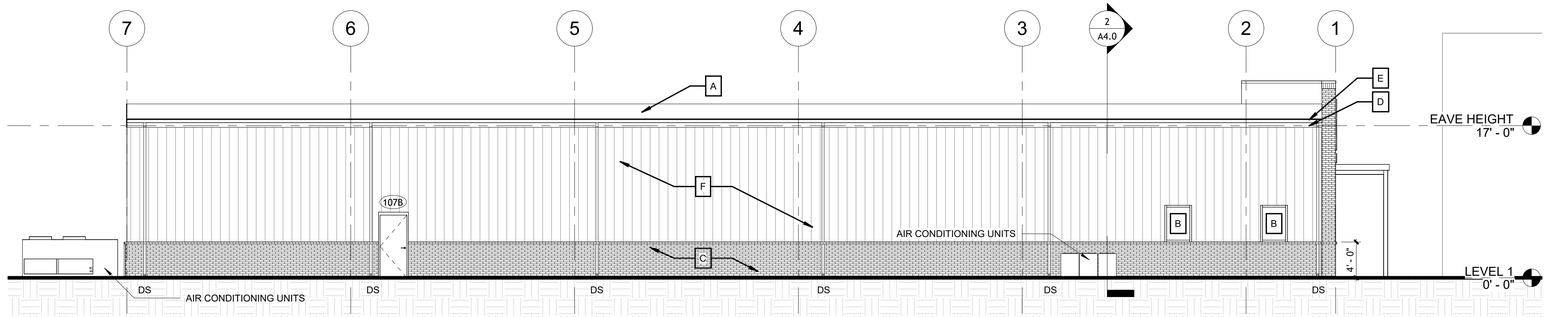
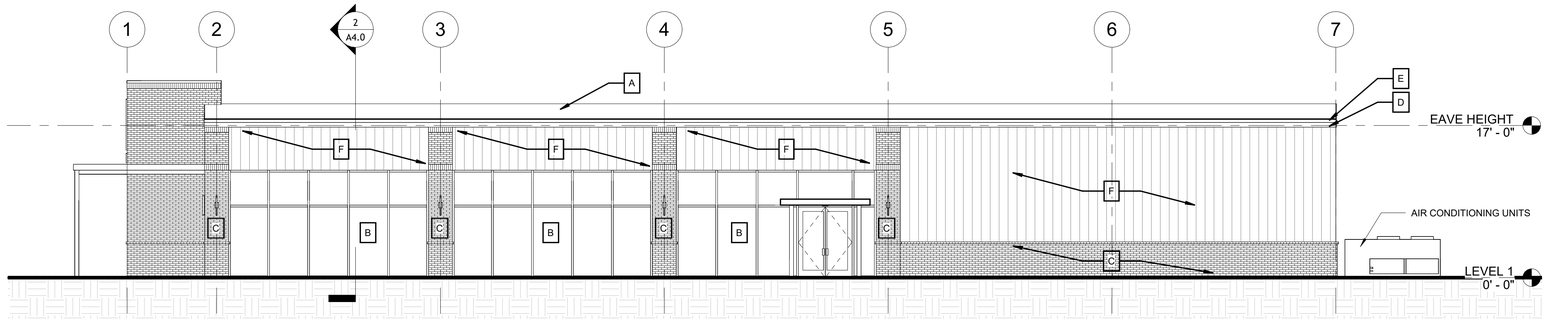


1 A3.0 NORTH ELEVATION

SCALE: 1/8" = 1'-0"

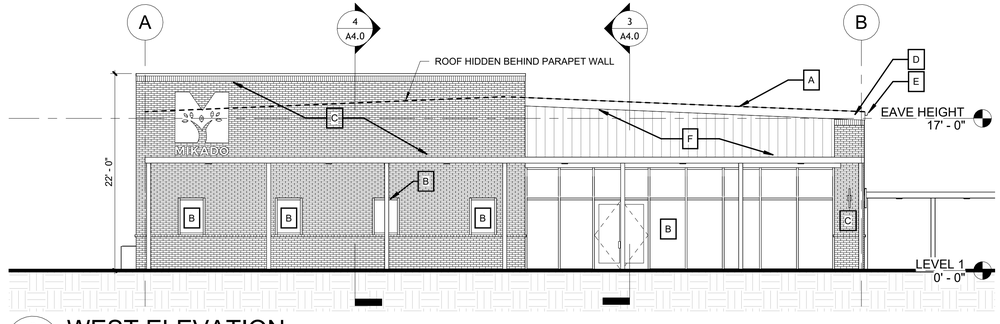
0 4 8 16



2 A3.0 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

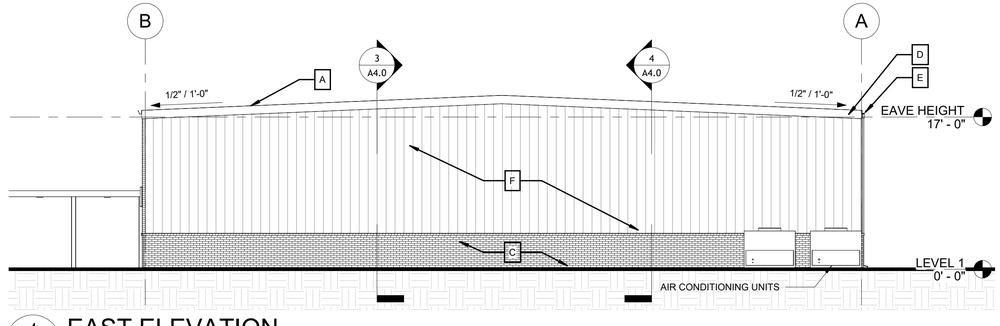
0 4 8 16



3 A3.0 WEST ELEVATION

SCALE: 1/8" = 1'-0"

0 4 8 16



4 A3.0 EAST ELEVATION

SCALE: 1/8" = 1'-0"

0 4 8 16

ELEVATION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EXTERIOR CONDITIONS, DIMENSIONS, ELEVATIONS, OPENINGS, AND MATERIALS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DRAWINGS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
2. ALL NEW EXTERIOR MATERIALS, INCLUDING BRICK, MASONRY, METAL PANELS, FASCIA, SOFFITS, AND ASSOCIATED FINISHES, SHALL MATCH EXISTING CONDITIONS OR CONFORM TO THE MATERIAL AND FINISH SCHEDULE AS INDICATED ON THE DRAWINGS.
3. ALL EXTERIOR WALL ASSEMBLIES SHALL BE PROVIDED WITH APPROPRIATE WEATHER-RESISTANT BARRIERS, FLASHING, SEALANTS, AND MOISTURE PROTECTION AS REQUIRED BY APPLICABLE BUILDING CODES AND MANUFACTURER'S INSTALLATION REQUIREMENTS.
4. ALL NEW WINDOWS, DOORS, STOREFRONT SYSTEMS, AND GLAZING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED DOOR AND WINDOW SCHEDULES. CONTRACTOR SHALL VERIFY ROUGH OPENINGS, HEAD HEIGHTS, SILL HEIGHTS, AND CONNECTIONS TO EXISTING CONSTRUCTION PRIOR TO INSTALLATION.
5. ALL NEW BRICK AND MASONRY WORK SHALL MATCH THE ADJACENT BUILDING IN COLOR, SIZE, TEXTURE, BOND PATTERN, AND MORTAR JOINT CONFIGURATION UNLESS OTHERWISE NOTED. PROVIDE APPROPRIATE MASONRY TIES, FLASHING, WEEP SYSTEMS, AND MOVEMENT JOINTS AS REQUIRED.
6. ALL EXTERIOR PENETRATIONS, MECHANICAL LOUVERS, VENTS, LIGHT FIXTURES, AND ASSOCIATED EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. LOCATIONS AND FINISHES SHALL BE AS INDICATED ON THE PROPOSED ELEVATIONS.
7. ALL EXTERIOR FINISHES, PAINT COLORS, METAL COMPONENTS, TRIM, AND EXPOSED MATERIALS SHALL CONFORM TO THE APPROVED MATERIAL SCHEDULE. CONTRACTOR SHALL PROVIDE MATERIAL SAMPLES AND COLOR SUBMITTALS FOR ARCHITECT'S REVIEW PRIOR TO INSTALLATION.

ELEVATION KEYNOTE

A. NEW ROOFING STRUCTURE TO MATCH ADJACENT BUILDING'S COLOR

B. NEW STOREFRONT WINDOWS. SEE STOREFRONT SCHEDULE

C. BRICK TO MATCH ADJACENT BUILDING'S BRICK

D. NEW FASCIA BOARD TO MATCH ADJACENT BUILDING'S FASCIA BOARD

E. NEW GUTTERS TO MATCH ADJACENT BUILDING'S GUTTERS

F. BUTLER CORRUGATED METAL PANEL, SPECIFIED BY BUTLER DRAWINGS

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No.	ISSUE	Date

SHEET NAME:
ARCHITECTURAL ELEVATIONS

PROJECT NUMBER: 26015

SHEET NUMBER:
A3.0

PLOT DATE: 10/27/2026 3:20:27 AM

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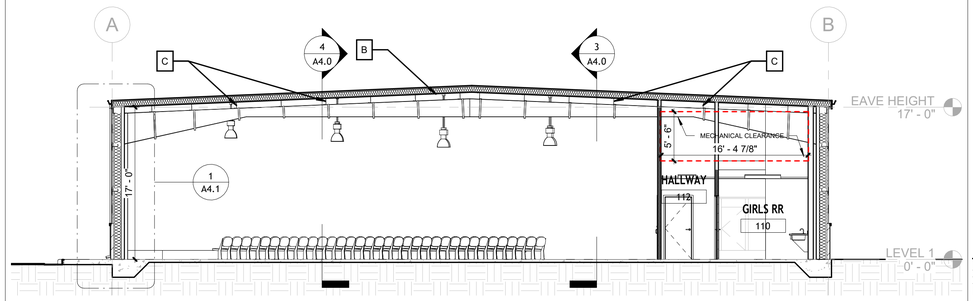
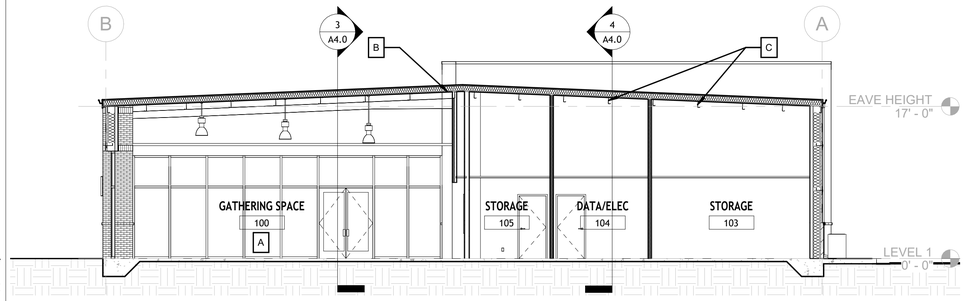


1 A4.0 N/S SECTION AT HIGH SCHOOL AUDITORIUM

SCALE: 1/8" = 1'-0"

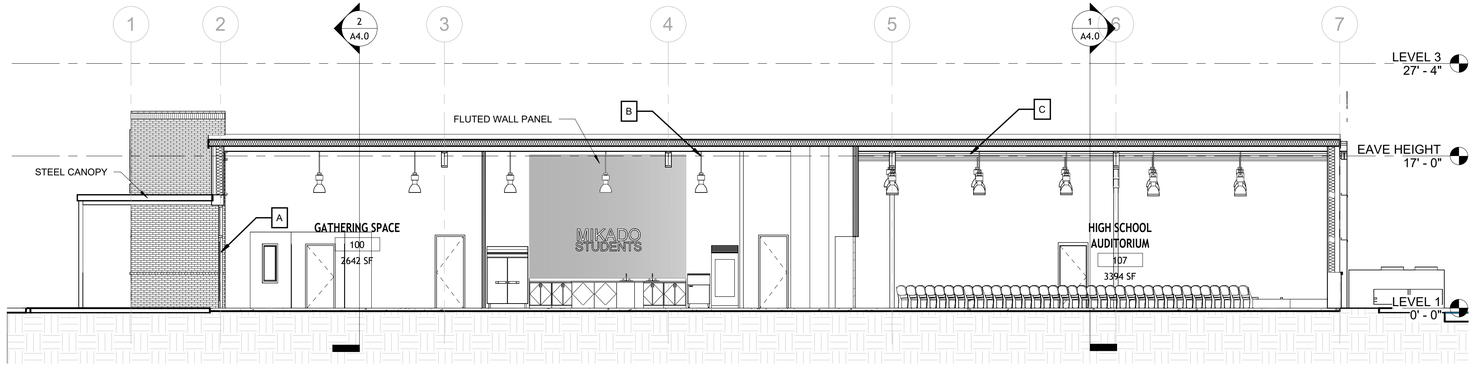
0 4 8 16



2 A4.0 N/S SECTION AT GATHERING SPACE

SCALE: 1/8" = 1'-0"

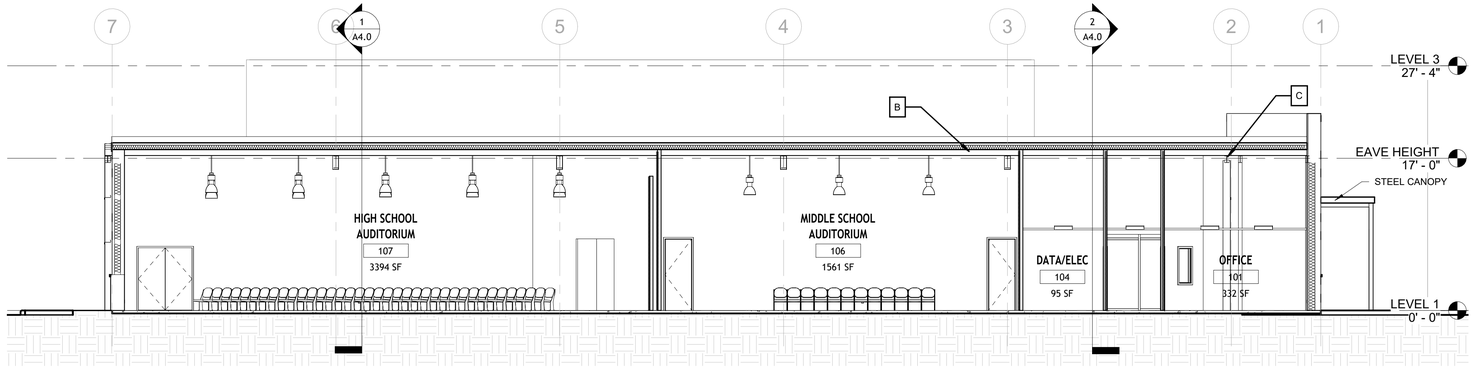
0 4 8 16



3 A4.0 E/W SECTION AT ENTRY

SCALE: 1/8" = 1'-0"

0 4 8 16



4 A4.0 E/W SECTION AT OFFICE

SCALE: 1/8" = 1'-0"

0 4 8 16

SECTION NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR ALL NEW FOUNDATIONS, FOOTINGS, COLUMNS, BEAMS, ROOF FRAMING, CONNECTIONS, AND REQUIRED REINFORCEMENT AT EXISTING-TO-NEW CONSTRUCTION INTERFACES.
2. ALL ROOF SLOPES, RIDGE HEIGHTS, EAVE ELEVATIONS, AND OVERHANGS SHALL BE COORDINATED WITH THE ROOF PLAN, BUILDING ELEVATIONS, AND STRUCTURAL DRAWINGS PRIOR TO INSTALLATION.
3. PROVIDE PROPER FLASHING, COUNTERFLASHING, AND WEATHERPROOF TRANSITIONS WHERE NEW ROOF ASSEMBLIES CONNECT TO EXISTING ROOF STRUCTURES AND EXTERIOR WALLS. REFER TO APPLICABLE ROOF DETAILS.
4. PROVIDE ROOF CRICKETS AT LOCATIONS INDICATED TO DIRECT WATER AWAY FROM ROOF INTERSECTIONS AND PREVENT PONDING. VERIFY CRICKET CONFIGURATION AND DRAINAGE WITH EXISTING ROOF CONDITIONS.
5. MAINTAIN CONTINUITY OF ROOF INSULATION, AIR BARRIERS, WEATHER-RESISTIVE BARRIERS, AND ASSOCIATED ENVELOPE COMPONENTS AT ALL NEW AND EXISTING BUILDING CONNECTIONS.
6. ALL ROOF EDGES, FASCIAS, SOFFITS, FLASHING, AND ASSOCIATED TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE ROOF PLAN, EXTERIOR ELEVATIONS, AND APPLICABLE DETAILS.
7. PROVIDE NEW INTERIOR SOFFITS AT LOCATIONS INDICATED, INCLUDING HALLWAY CONDITIONS. COORDINATE SOFFIT HEIGHTS AND DEPTHS WITH STRUCTURAL FRAMING, MECHANICAL DUCTWORK, AND REFLECTED CEILING PLANS.
8. PROVIDE ACOUSTICAL PANELS AT LOCATIONS INDICATED IN THE SECTIONS AND REFLECTED CEILING PLANS. COORDINATE PANEL PLACEMENT, SUPPORTS, AND ATTACHMENT METHODS WITH THE MANUFACTURER'S REQUIREMENTS.
9. COORDINATE ALL EXPOSED OR SLOPED CEILING CONDITIONS WITH ROOF FRAMING, INSULATION, LIGHTING, MECHANICAL DISTRIBUTION, AND FINISH REQUIREMENTS. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
10. ALL INTERIOR PARTITIONS SHALL EXTEND TO THE HEIGHTS INDICATED IN THE SECTIONS AND PARTITION DETAILS. PROVIDE REQUIRED BRACING, SOUND ATTENUATION, AND FIRE-RESISTIVE CONSTRUCTION WHERE SPECIFIED.
11. COORDINATE DOOR, WINDOW, AND STOREFRONT OPENING HEIGHTS WITH THE SECTIONS, ELEVATIONS, AND APPLICABLE SCHEDULES. PROVIDE REQUIRED HEADERS, LINTELS, FLASHING, AND PERIMETER SEALANTS.
12. MAINTAIN FINISHED FLOOR ELEVATIONS AND ACCESSIBLE TRANSITIONS BETWEEN EXISTING AND NEW CONSTRUCTION AS INDICATED. VERIFY ALL THRESHOLD CONDITIONS, FLOOR ASSEMBLY THICKNESSES, AND ADJACENT EXTERIOR GRADES.
13. COORDINATE ALL RESTROOM WALL ASSEMBLIES, PLUMBING CHASES, FIXTURE LOCATIONS, AND REQUIRED BLOCKING WITH THE ENLARGED RESTROOM PLANS, INTERIOR ELEVATIONS, AND PLUMBING DRAWINGS.
14. COORDINATE KITCHEN, PANTRY, AND SERVICE ROOM CONSTRUCTION WITH EQUIPMENT LOCATIONS, CABINETRY, PLUMBING, ELECTRICAL, AND MECHANICAL REQUIREMENTS. PROVIDE REQUIRED SUPPORTS AND CLEARANCES.
15. COORDINATE ALL CEILING-MOUNTED LIGHTING, MECHANICAL DIFFUSERS, DUCTWORK, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECTURAL SECTIONS AND REFLECTED CEILING PLANS. RESOLVE ALL CONFLICTS PRIOR TO INSTALLATION.
16. ALL NEW AND EXISTING CONSTRUCTION INTERFACES SHALL BE PROPERLY ALIGNED, SUPPORTED, SEALED, AND FINISHED TO PROVIDE CONTINUOUS ASSEMBLIES UNLESS OTHERWISE INDICATED.
17. PROVIDE ALL REQUIRED BLOCKING, BACKING, BRACING, AND SUPPORTS FOR ARCHITECTURAL FINISHES, CEILING SYSTEMS, MILLWORK, ACCESSORIES, AND EQUIPMENT SHOWN OR REFERENCED IN THE CONSTRUCTION DOCUMENTS.
18. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL COORDINATE ALL SECTION CONDITIONS WITH THE FLOOR PLANS, BUILDING ELEVATIONS, WALL SECTIONS, STRUCTURAL DRAWINGS, AND APPLICABLE DETAILS PRIOR TO CONSTRUCTION.

SECTION KEYNOTES

A. NEW STOREFRONT WINDOWS. SEE STOREFRONT SCHEDULE

B. SEE REFLECTED CEILING PLAN FOR ADDITIONAL DETAILS

C. SEE STRUCTURAL FOR BEAM SPECIFICATIONS

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SHEET NAME:
ARCHITECTURAL SECTIONS

PROJECT NUMBER: 26015

SHEET NUMBER:
A4.0

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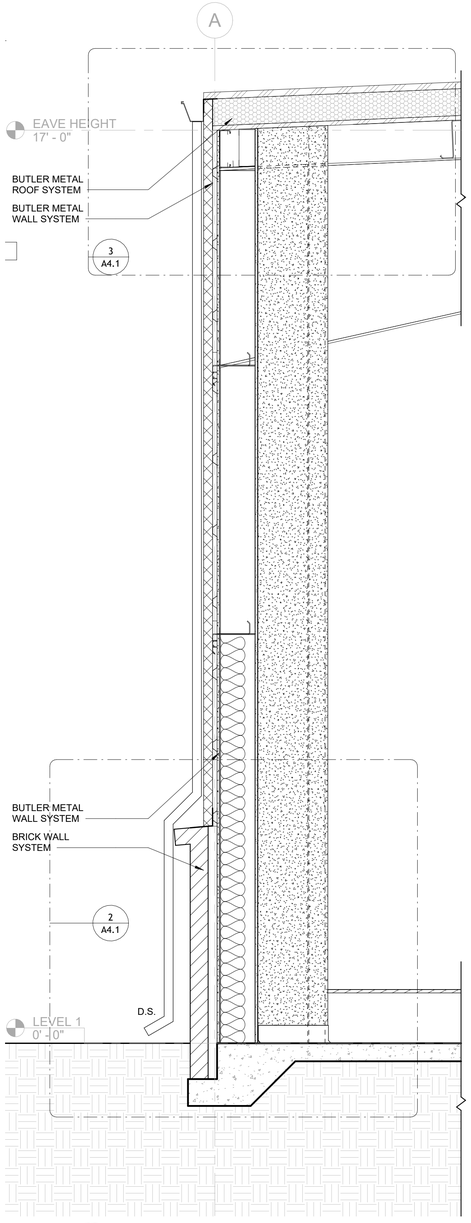
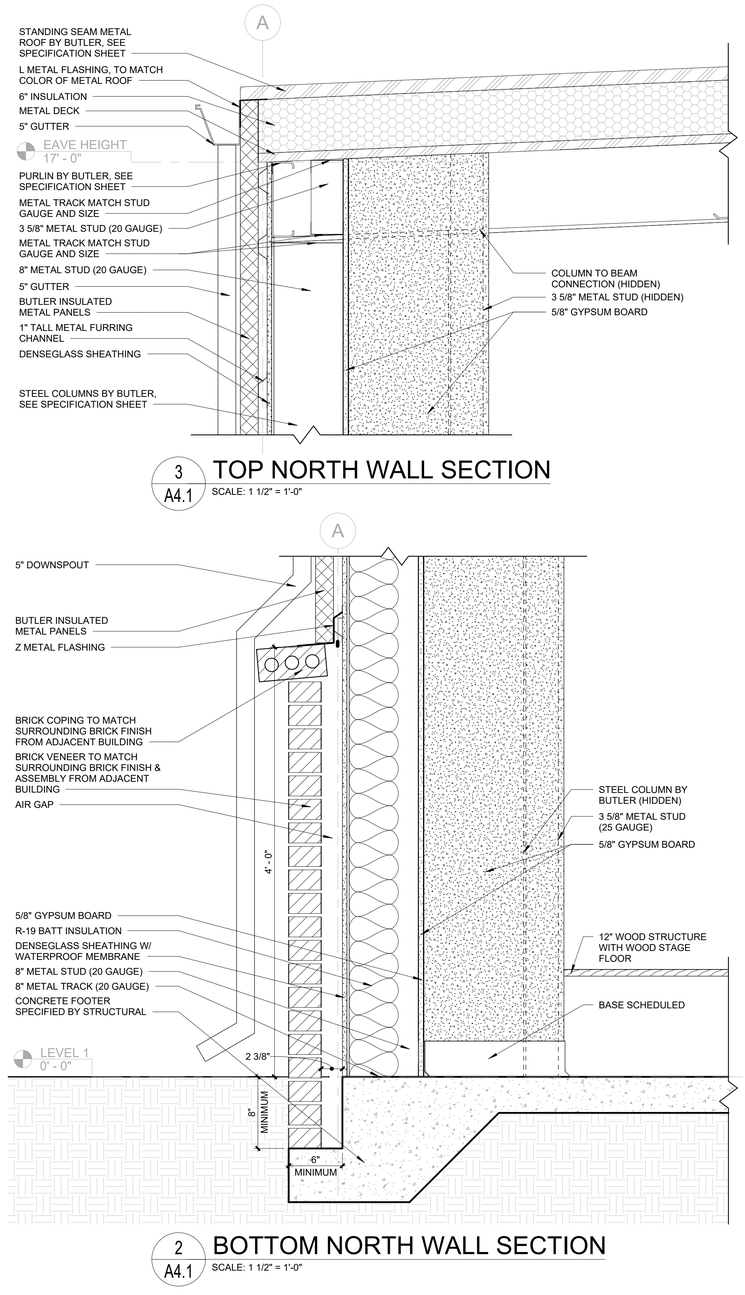


1 A4.1 NORTH WALL SECTION

SCALE: 3/4" = 1'-0"



3 A4.1 TOP NORTH WALL SECTION

SCALE: 1 1/2" = 1'-0"

2 A4.1 BOTTOM NORTH WALL SECTION

SCALE: 1 1/2" = 1'-0"

SECTION NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR ALL NEW FOUNDATIONS, FOOTINGS, COLUMNS, BEAMS, ROOF FRAMING, CONNECTIONS, AND REQUIRED REINFORCEMENT AT EXISTING-TO-NEW CONSTRUCTION INTERFACES.
2. ALL ROOF SLOPES, RIDGE HEIGHTS, EAVE ELEVATIONS, AND OVERHANGS SHALL BE COORDINATED WITH THE ROOF PLAN, BUILDING ELEVATIONS, AND STRUCTURAL DRAWINGS PRIOR TO INSTALLATION.
3. PROVIDE PROPER FLASHING, COUNTERFLASHING, AND WEATHERPROOF TRANSITIONS WHERE NEW ROOF ASSEMBLIES CONNECT TO EXISTING ROOF STRUCTURES AND EXTERIOR WALLS. REFER TO APPLICABLE ROOF DETAILS.
4. PROVIDE ROOF CRICKETS AT LOCATIONS INDICATED TO DIRECT WATER AWAY FROM ROOF INTERSECTIONS AND PREVENT PONDING. VERIFY CRICKET CONFIGURATION AND DRAINAGE WITH EXISTING ROOF CONDITIONS.
5. MAINTAIN CONTINUITY OF ROOF INSULATION, AIR BARRIERS, WEATHER-RESISTIVE BARRIERS, AND ASSOCIATED ENVELOPE COMPONENTS AT ALL NEW AND EXISTING BUILDING CONNECTIONS.
6. ALL ROOF EDGES, FASCIAS, SOFFITS, FLASHING, AND ASSOCIATED TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE ROOF PLAN, EXTERIOR ELEVATIONS, AND APPLICABLE DETAILS.
7. PROVIDE NEW INTERIOR SOFFITS AT LOCATIONS INDICATED, INCLUDING HALLWAY CONDITIONS. COORDINATE SOFFIT HEIGHTS AND DEPTHS WITH STRUCTURAL FRAMING, MECHANICAL DUCTWORK, AND REFLECTED CEILING PLANS.
8. PROVIDE ACOUSTICAL PANELS AT LOCATIONS INDICATED IN THE SECTIONS AND REFLECTED CEILING PLANS. COORDINATE PANEL PLACEMENT, SUPPORTS, AND ATTACHMENT METHODS WITH THE MANUFACTURER'S REQUIREMENTS.
9. COORDINATE ALL EXPOSED OR SLOPED CEILING CONDITIONS WITH ROOF FRAMING, INSULATION, LIGHTING, MECHANICAL DISTRIBUTION, AND FINISH REQUIREMENTS. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
10. ALL INTERIOR PARTITIONS SHALL EXTEND TO THE HEIGHTS INDICATED IN THE SECTIONS AND PARTITION DETAILS. PROVIDE REQUIRED BRACING, SOUND ATTENUATION, AND FIRE-RESISTIVE CONSTRUCTION WHERE SPECIFIED.
11. COORDINATE DOOR, WINDOW, AND STOREFRONT OPENING HEIGHTS WITH THE SECTIONS, ELEVATIONS, AND APPLICABLE SCHEDULES. PROVIDE REQUIRED HEADERS, LINTELS, FLASHING, AND PERIMETER SEALANTS.
12. MAINTAIN FINISHED FLOOR ELEVATIONS AND ACCESSIBLE TRANSITIONS BETWEEN EXISTING AND NEW CONSTRUCTION AS INDICATED. VERIFY ALL THRESHOLD CONDITIONS, FLOOR ASSEMBLY THICKNESSES, AND ADJACENT EXTERIOR GRADES.
13. COORDINATE ALL RESTROOM WALL ASSEMBLIES, PLUMBING CHASES, FIXTURE LOCATIONS, AND REQUIRED BLOCKING WITH THE ENLARGED RESTROOM PLANS, INTERIOR ELEVATIONS, AND PLUMBING DRAWINGS.
14. COORDINATE KITCHEN, PANTRY, AND SERVICE ROOM CONSTRUCTION WITH EQUIPMENT LOCATIONS, CABINETRY, PLUMBING, ELECTRICAL, AND MECHANICAL REQUIREMENTS. PROVIDE REQUIRED SUPPORTS AND CLEARANCES.
15. COORDINATE ALL CEILING-MOUNTED LIGHTING, MECHANICAL DIFFUSERS, DUCTWORK, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECTURAL SECTIONS AND REFLECTED CEILING PLANS. RESOLVE ALL CONFLICTS PRIOR TO INSTALLATION.
16. ALL NEW AND EXISTING CONSTRUCTION INTERFACES SHALL BE PROPERLY ALIGNED, SUPPORTED, SEALED, AND FINISHED TO PROVIDE CONTINUOUS ASSEMBLIES UNLESS OTHERWISE INDICATED.
17. PROVIDE ALL REQUIRED BLOCKING, BACKING, BRACING, AND SUPPORTS FOR ARCHITECTURAL FINISHES, CEILING SYSTEMS, MILLWORK, ACCESSORIES, AND EQUIPMENT SHOWN OR REFERENCED IN THE CONSTRUCTION DOCUMENTS.
18. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL COORDINATE ALL SECTION CONDITIONS WITH THE FLOOR PLANS, BUILDING ELEVATIONS, WALL SECTIONS, STRUCTURAL DRAWINGS, AND APPLICABLE DETAILS PRIOR TO CONSTRUCTION.

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PROJECT NAME:
MIKADO BAPTIST CHURCH
FELLOWSHIP HALL

PROJECT ADDRESS:
6751 HOUSTON RD
MACON, GA 31216

STAMP:

PRELIMINARY
10/26/26

DRAWN:	CHECKED:
JRH	JRM
APPROVED:	ISSUE DATE:
JCA	10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME:
WALL SECTION & DETAIL

PROJECT NUMBER: 26015

SHEET NUMBER:
A4.1

PLOT DATE: 10/27/2026 3:20:36 AM

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WINDOW NOTES

1. INSTALL ALL WINDOWS PLUMB, LEVEL, SQUARE, AND IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE SILL-PAN, JAMB, AND HEAD FLASHING AT ALL WINDOW OPENINGS. INSTALL FLASHING IN SHINGLE FASHION TO DRAIN WATER TO THE EXTERIOR.
3. INTEGRATE WINDOW FLASHING WITH THE WATER-RESISTIVE BARRIER. SEALANT SHALL NOT BE USED AS THE PRIMARY WATERPROOFING METHOD.
4. COORDINATE WINDOWS WITH STUCCO TRIM, CASING BEADS, FLASHING, AND REQUIRED SEALANT JOINTS.
5. PROVIDE BACKER ROD AND COMPATIBLE EXTERIOR-GRADE SEALANT AROUND WINDOW PERIMETERS.
6. CASEMENT WINDOWS SHALL OPERATE SMOOTHLY AND INCLUDE REQUIRED HARDWARE AND SCREENS. FIXED WINDOWS SHALL BE NON-OPERABLE.
7. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS AND FIELD CONDITIONS BEFORE ORDERING WINDOWS.

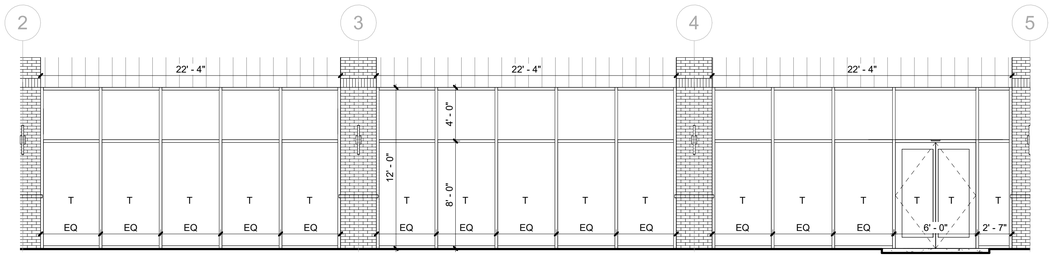
WINDOW SCHEDULE

Window Schedule Copy 1

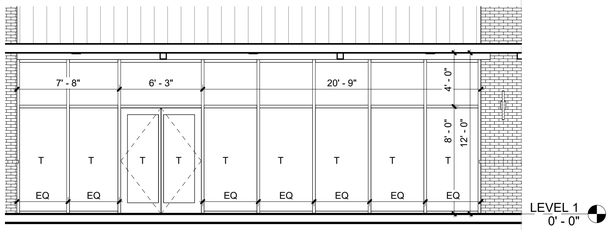
WINDOW					
MARK	WIDTH	HEIGHT	WINDOW TYPE	FINISH	COMMENTS
737	2' - 0"	4' - 0"			

WINDOW ELEVATIONS

STOREFRONT ELEVATIONS



1 / A6.0 SOUTH STOREFRONT ELEVATION
SCALE: 3/16" = 1'-0"



2 / A6.0 WEST STOREFRONT VIEW
SCALE: 3/16" = 1'-0"

STOREFRONT NOTES

1. BASIS OF DESIGN YKK YES 45TU, CENTER SET, BLACK ANODIZED FINISH
2. GLASS MARKED WITH A "T" TO BE TEMPERED
3. FENESTRATION IECC TABLE C402.4 REQUIREMENTS:

   U -VALUE:
   FIXED WINDOW: 0.46

   U-VALUE:
   OPERABLE WINDOWS: 0.60

   SHGC: 0.33

WINDOW FLASHING DETAIL

DOOR SCHEDULE

	DOOR AND OPENING LEAFS								DOOR AND OPENING FRAMES							
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	DOOR TYPE	FINISH	UNDERCUT	MATERIAL	TYPE	FINISH	HEAD	JAMB	SILL	MATERIAL	Comments
100A	6' - 0"	7' - 10 3/4"													
100B	6' - 0"	7' - 10 3/4"													
101	3' - 0"	7' - 0"	0' - 1 3/4"												
102	3' - 0"	7' - 0"	0' - 1 3/4"												
103	5' - 0"	7' - 0"	0' - 1 3/8"												
104	3' - 0"	7' - 0"	0' - 1 3/4"												
105	3' - 0"	7' - 0"	0' - 1 3/4"												
106A	3' - 0"	8' - 0"	0' - 1 3/4"												
106B	3' - 0"	8' - 0"	0' - 1 3/4"												
107A	6' - 0"	8' - 0"	0' - 2"												
107B	3' - 0"	7' - 0"	0' - 1 3/4"												
108	6' - 0"	7' - 0"	0' - 1 3/4"												
109	3' - 0"	7' - 0"	0' - 1 3/4"												
110	3' - 0"	7' - 0"	0' - 1 3/4"												
111	3' - 0"	7' - 0"	0' - 1 3/4"												

DOOR FINISH LEGEND

DOOR MATERIAL

WD	SOLID CORE WOOD DOOR, TYP.
IMD	INSULATED HOLLOW METAL DOOR, TYP.
CO	CASED-OPENING

DOOR FINISH

PTD	
STD	OAK FINISH, TYP.

DOOR FRAME MATERIALS

METAL	METAL FRAME

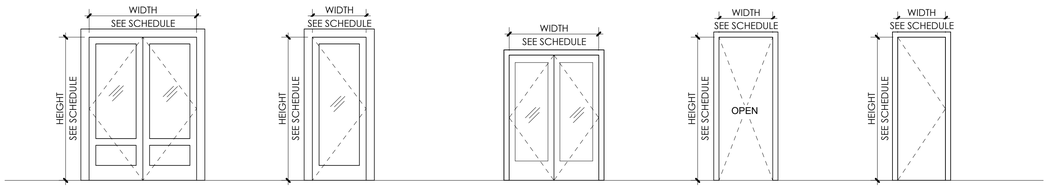
DOOR FRAME FINISH

PTD	BRONZE,TBD DTM ACRYLIC SEMI-GLOSS FINISH

DOOR SILL TYPES

DS1	ALUMINUM AND VINYL THRESHOLD
DS2	TRANSITION STRIP, 1" REDUCER, SHAW CONTRACT 143VS

DOOR ELEVATIONS



A **EXTERIOR ENTRY**
DOUBLE FRENCH DOOR
CLAD EXTERIOR
TEMPERED GLASS
PNTD WD INTERIOR
GRILLE PATTERN AS SHOWN ON EXTERIOR ELEVATIONS

B **CLAD WOOD ENTRY**
ENTRY DOOR
METAL EXTERIOR
TEMPERED GLASS
METAL INTERIOR
GRILLE PATTERN AS SHOWN ON EXTERIOR ELEVATIONS

E **EXTERIOR ENTRY**
DOUBLE FRENCH DOOR
CLAD EXTERIOR
TEMPERED GLASS
PNTD WD INTERIOR
GRILLE PATTERN AS SHOWN ON EXTERIOR ELEVATIONS

H **INTERIOR CASED OPENING**
CASED OPENING

I **INTERIOR SINGLE DOOR**
SINGLE-LEAF WOOD DOOR
SOLID CORE
SHAKER SINGLE PANEL
PNTED FINISH

TYPE A, B, & E DOORS BASIS OF DESIGN:
MARVIN ULTIMATE COMMERCIAL DOOR

DOOR FRAME DETAILS

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REVISIONS:

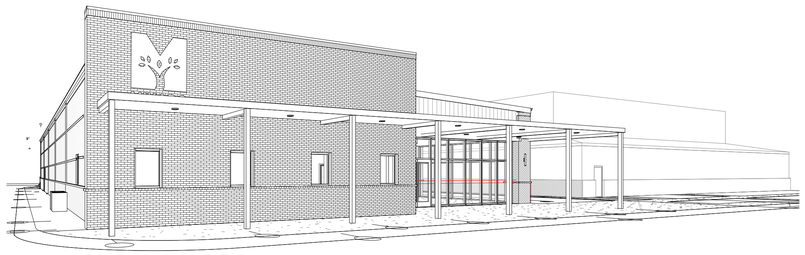
No.	ISSUE	Date
1	Revision 1	Date 1

SHEET NAME:
DOOR AND WINDOW SCHEDULE & DETAILS

PROJECT NUMBER: 26015

SHEET NUMBER:
A6.0

EXTERIOR PERSPECTIVES

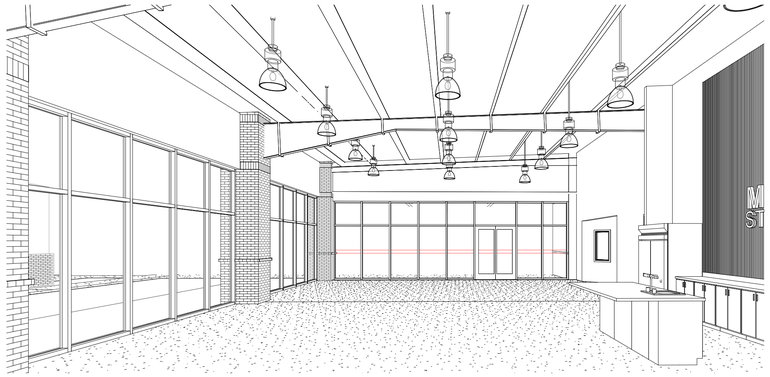


1 A6.1 EXTERIOR PERSPECTIVE 1
SCALE:



2 A6.1 EXTERIOR PERSPECTIVE 2
SCALE:

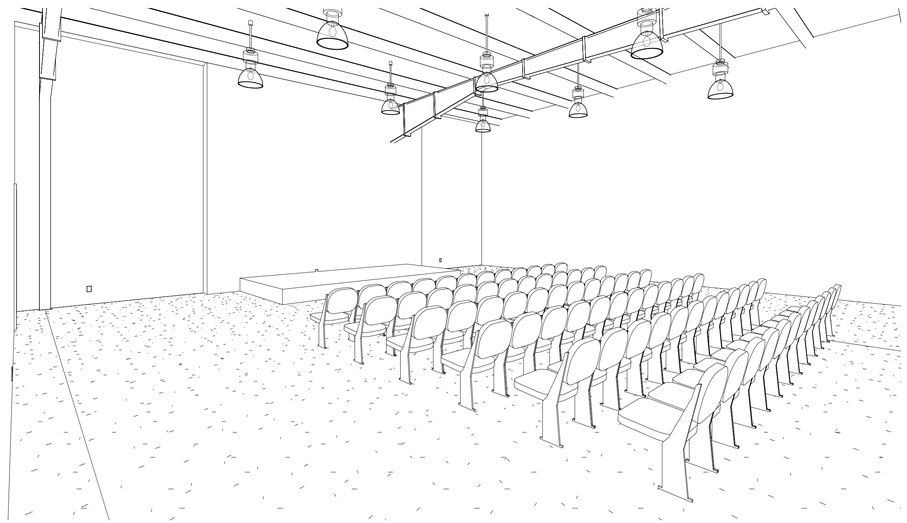
INTERIOR PERSPECTIVES



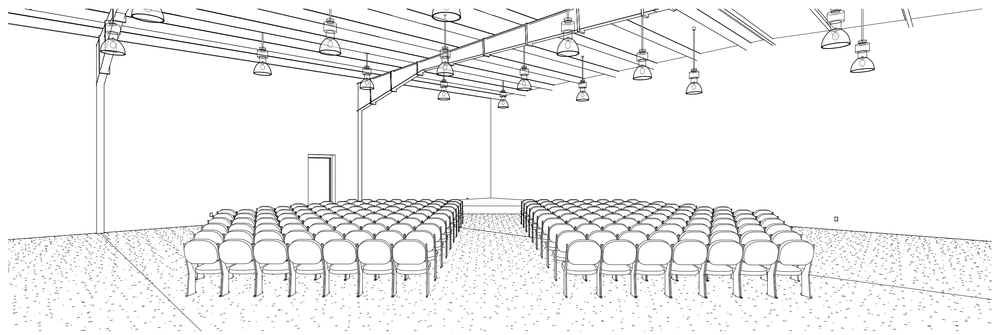
3 A6.1 INTERIOR PERSPECTIVE 1
SCALE:



4 A6.1 INTERIOR PERSPECTIVE 2
SCALE:



5 A6.1 INTERIOR PERSPECTIVE 3
SCALE:



6 A6.1 INTERIOR PERSPECTIVE 4
SCALE:

PLOT DATE: 10/27/2026 3:21:16 AM

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JRH	JRM
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JCA	10/26/26

REVISIONS:

No.	ISSUE	Date

SHEET NAME:
3D EXTERIOR & INTERIOR PERSPECTIVES

PROJECT NUMBER: 26015

SHEET NUMBER:
A6.1

SPECIFICATIONS

GENERAL

CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.

THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR.

ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN.

ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

THE WORK INCLUDES, BUT NOT LIMITED TO:
- THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
- ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER, INCLUDING OWNER PROVIDED EQUIPMENT.
- LIGHTING CONTROL
- LIGHTING FIXTURES

EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE.

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2023, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS.

ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS.

IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT.
- IEEE
- IES
- IECC 2015
- ASHRAE 90.1
- NFPA
- NEMA
- UL
- ADA

THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE SPECIFICATIONS OR CONTRACT DOCUMENTS.

ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID.

CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION.

ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL COSTS.

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

PRODUCTS AND WORK

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITER'S REQUIREMENTS AND BEAR THE UNDERWRITER'S LABORATORIES' SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURER'S DESCRIPTION AND SPECIFICATION.

CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS.

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.
OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.
OUTDOORS UNDERGROUND: TYPE EPC-40-PVC
OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.
BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS.
INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.
INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
INDOORS DAMP OR WET LOCATIONS: IMC.
INDOORS LOW-VOLTAGE CABLES: EMT.

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER: LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA. METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

COPPER CONDUCTORS #8 OR LARGER: LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

- PIRELLIE
- SOUTHWIRE
- AETNA
- REPUBLIC
- AFC
- ENCORE WIRE
- KERITE

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

CONTRACTOR SHALL MAKE ADEQUATE ADJUSTMENT TO CONDUIT SIZES INDICATED SHOULD ALTERNATIVE CONDUCTOR INSULATION OR MATERIAL BE UTILIZED.

SPECIFICATIONS

MOLDED CASE CIRCUIT BREAKER:

INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS.

APPROVED MANUFACTURERS:
- GENERAL ELECTRIC
- CUTLER HAMMER
- SQUARE D
- SIEMENS

THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS; TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER.

BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS.

BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED.

SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

OVERCURRENT DEVICES RATED 1,000 AMPERES AND LARGER, SERVING LOADS GREATER THAN 150 VOLTS TO GROUND SHALL BE EQUIPPED WITH GROUND FAULT PROTECTION OF EQUIPMENT (GFPE) AS REQUIRED BY NEC ARTICLES 210.13 AND 230.95.

LIGHTING FIXTURE

SUBMITTAL:
SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA.

REFER TO THE "LIGHTING FIXTURE SCHEDULE" IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES.

PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE.

EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ONIN WHICH IT IS INSTALLED.

FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION.

PANELBOARD

SUBMITTAL:
INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY CURVES.

LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PB1, NFPA #70-384 AND 70-373.

ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING.

APPROVED MANUFACTURERS:
- GENERAL ELECTRIC
- CUTLER HAMMER
- SQUARE D
- SIEMENS

LIGHTING CONTROL

TIME SWITCHES:
SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. 20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM.

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND TIME CLOCK.

INDOOR OCCUPANCY SENSORS:
WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE POWER PACK.

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH UL773A. SENSOR IS POWERED FROM POWER PACK.

POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC. AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX); TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.

DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND ULTRASONIC DETECTION METHOD.

GROUNDING AND BONDING

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6 OR LARGER.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

ELECTRICAL GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2023.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE).

REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 6" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES.

PROVIDE SPD FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTME 814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146. WHERE RECEPTACLES ARE INSTALLED IN LOCATIONS DEFINED BY ARTICLE 406.12, THEY SHALL BE TAMPER-RESISTANT.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

PROVIDE ARC-FLASH HAZARD MARKINGS ON DISTRIBUTION EQUIPMENT AND METER SOCKET ENCLOSURES AS REQUIRED BY NEC ART. 110.16

LEGEND

SYMBOLS	DESCRIPTION	TYPICAL MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
AC	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
J	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
J	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
J	JUNCTION BOX FLUSH IN FINSHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
$	SWITCH	42" AFF
$3 / $3	SWITCH - 3 WAY	42" AFF
$OCS / $OCS	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
$LV	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
$D / $D	SWITCH - WALL MTD, DIMMING	42" AFF
OS	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
TV	TV OUTLET	18" AFF
	TELEPHONE OUTLET	18" AFF
	TELEPHONE OUTLET. SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DATA OUTLET	18" AFF
	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
M	MOTOR	
XX-#	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL, (3) HOT & (1) GROUND	
D / D	SMOKE DETECTOR, CEILING / WALL MOUNTED	
H / H	HEAT DETECTOR, CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECPT	RECEPTACLE
CU	COPPER	SPD	SURGE PROTECTIVE DEVICE
DN	DOWN	TEL	TELEPHONE
EC	EMPTY CONDUIT	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF

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PROJECT NAME: MIKADO BAPTIST CHURCH FELLOWSHIP HALL

PROJECT ADDRESS: 6751 HOUSTON RD MACON, GA 31216

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PRELIMINARY
10/22/2026

DRAWN:	CHECKED:
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BA	10/22/2026

REVISIONS:

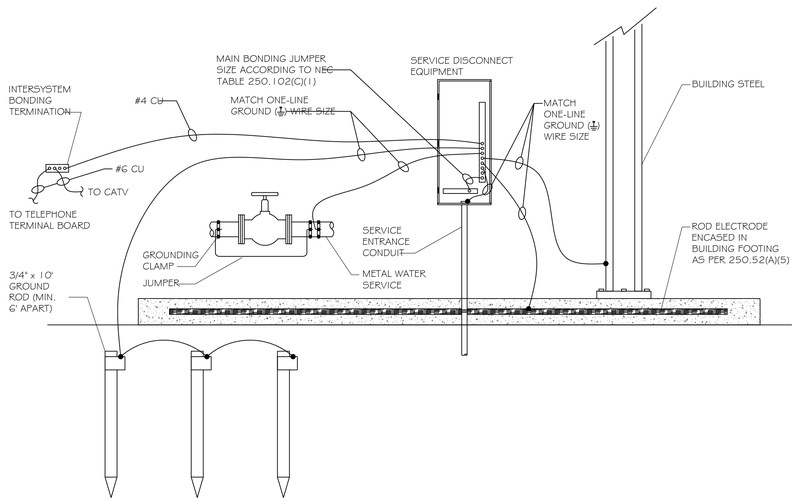
No.	ISSUE	Date

SHEET NAME: GENERAL

PROJECT NUMBER: 26015

SHEET NUMBER: E0.1

GROUNDING AND BONDING DETAIL



GENERAL SCHEDULE

CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU-1		208/120V 2P 3W	3.54	25/2	MDP-1,3	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
CU-2		208/120V 2P 3W	4.37	35/2	MDP-5,7	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-3		208/120V 2P 3W	4.37	35/2	MDP-9,11	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-4		208/120V 2P 3W	4.37	35/2	MDP-13,15	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-5		208/120V 2P 3W	4.37	35/2	MDP-17,19	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-6		208/120V 2P 3W	4.58	35/2	MDP-21,23	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-7		208/120V 2P 3W	4.58	35/2	MDP-25,27	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-8		208/120V 2P 3W	4.58	35/2	MDP-29,31	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
EF-1		120V 1P 2W	0.1				FACTORY DISC SWITCH/PLUG
EF-A		120V 1P 2W	0.24				FACTORY DISC SWITCH/PLUG
EF-A		120V 1P 2W	0.24				FACTORY DISC SWITCH/PLUG
FURN-1		120V 1P 2W	1.56	15/1	MDP-2	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-2		120V 1P 2W	1.68	15/1	MDP-4	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-3		120V 1P 2W	1.68	15/1	MDP-6	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-4		120V 1P 2W	1.68	15/1	MDP-8	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-5		120V 1P 2W	1.68	15/1	MDP-10	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-6		120V 1P 2W	1.8	15/1	MDP-12	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-7		120V 1P 2W	1.8	15/1	MDP-14	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-8		120V 1P 2W	1.8	15/1	MDP-16	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
MFCU-1		208/120V 2P 3W	0.21	20/2	MDP-18,20	1/2"C,2#12,#12N,#12G	AS PER MANUFACTURER
MHP-1		208/120V 2P 3W	3.95	20/2	MDP-18,20	1/2"C,2#12,#12N,#12G	30A/2P/NEMA 3R
RP-1		120V 1P 2W	0.24	20/1	MDP-26	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
WH-1		208/120V 2P 3W	4.5	30/2	MDP-22,24	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 1

MDP

Panel: MDP | ROOM | MOUNTING: SURFACE | FED FROM: DSC.MDP | NOTE
VOLTS: 208Y/120V 3P 4W | BUS AMPS: 400 | NEUTRAL: 100% | AIC: 42,000 | MAIN BKR: MLO | LUGS: STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/2	3.5	CU-1	a 2	15/1	1.6	FURN-1
3	|			b 4	15/1	1.7	FURN-2
5	35/2	4.4	CU-2	c 6	15/1	1.7	FURN-3
7	|			a 8	15/1	1.7	FURN-4
9	35/2	4.4	CU-3	b 10	15/1	1.7	FURN-5
11	|			c 12	15/1	1.8	FURN-6
13	35/2	4.4	CU-4	a 14	15/1	1.8	FURN-7
15	|			b 16	15/1	1.8	FURN-8
17	35/2	4.4	CU-5	c 18	20/2	4.2	MFCU-1, MHP-1
19	|			a 20	|		
21	35/2	4.6	CU-6	b 22	30/2	4.5	WH-1
23	|			c 24	|		
25	35/2	4.6	CU-7	a 26	20/1	0.2	RP-1
27	|			b 28	20/1	0.0	SPACE
29	35/2	4.6	CU-8	c 30	20/1	0.0	SPACE
31	|			a 32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	b 34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	c 36	20/1	0.0	SPACE
37	100/3	0.0	PANEL A	a 38	20/1	0.0	SPACE
39	|			b 40	20/1	0.0	SPACE
41	|			c 42	20/1	0.0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	4.6	1.1	(25%)	CONTINUOUS	4.5	5.6	(125%)
MOTORS	14.1	14.1	(100%)	COOLING	38.7	38.7	(100%)
				TOTAL LOAD		59.6	
				BALANCED 3-PHASE LOAD		165.4 A	
				PHASE A		106%	
				PHASE B		94.7%	
				PHASE C		99.2%	

A

Panel: A | ROOM | MOUNTING: SURFACE | FED FROM: MDP | NOTE
VOLTS: 208Y/120V 3P 4W | BUS AMPS: 125 | NEUTRAL: 100% | AIC: 22,000 | MAIN BKR: MLO | LUGS: STANDARD

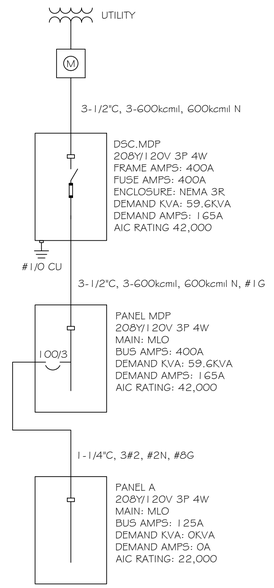
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.0	SPACE	a 2	20/1	0.0	SPACE
3	20/1	0.0	SPACE	b 4	20/1	0.0	SPACE
5	20/1	0.0	SPACE	c 6	20/1	0.0	SPACE
7	20/1	0.0	SPACE	a 8	20/1	0.0	SPACE
9	20/1	0.0	SPACE	b 10	20/1	0.0	SPACE
11	20/1	0.0	SPACE	c 12	20/1	0.0	SPACE
13	20/1	0.0	SPACE	a 14	20/1	0.0	SPACE
15	20/1	0.0	SPACE	b 16	20/1	0.0	SPACE
17	20/1	0.0	SPACE	c 18	20/1	0.0	SPACE
19	20/1	0.0	SPACE	a 20	20/1	0.0	SPACE
21	20/1	0.0	SPACE	b 22	20/1	0.0	SPACE
23	20/1	0.0	SPACE	c 24	20/1	0.0	SPACE
25	20/1	0.0	SPACE	a 26	20/1	0.0	SPACE
27	20/1	0.0	SPACE	b 28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	c 30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	a 32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	b 34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	c 36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a 38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b 40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	c 42	20/1	0.0	SPACE

	CONN KVA	CALC KVA		CALC KVA
			TOTAL LOAD	0.0
			BALANCED 3-PHASE LOAD	0.0 A
			PHASE A	0.00%
			PHASE B	0.00%
			PHASE C	0.00%

FAULT CURRENT SCHEDULE

DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER
				FAULT	X	R	DEVICE	FAULT	X	R	SIZE
DSC.MDP	17,541	42,000	120V	16,959	0.006639	0.002448	UTILITY	31,246	0.003766	0.0007532	600kcmil
MDP	14,150	42,000	120V	13,564	0.008184	0.003359	DSC.MDP	16,959	0.006639	0.002448	600kcmil
A	11,933	22,000	120V	11,514	0.008735	0.005685	MDP	13,564	0.008184	0.003359	#2

ONE-LINE DIAGRAM



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PROJECT NAME: MIKADO BAPTIST CHURCH FELLOWSHIP HALL

PROJECT ADDRESS: 6751 HOUSTON RD MACON, GA 31216

STAMP:

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10/22/2026

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APPROVED:	ISSUE DATE:
BA	10/22/2026

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No.	ISSUE	Date

SHEET NAME: ONE-LINE DIAGRAM & SCHEDULES

PROJECT NUMBER: 26015

SHEET NUMBER: E0.2

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GENERAL LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
A		(1) 46.8W LED	2x4 LED RECESSED TROFFER SELECTABLE	METALUX: 24CZSCT3-UNV	MULTIPLE
AE		(1) 46.8W LED	2x4 LED RECESSED TROFFER SELECTABLE W/ BATTERY BACKUP	METALUX: 24CZSCT3-UNV-EL	MULTIPLE
B		(1) 52W LED	LED ROUND HIGH BAY	SPECTRUM LIGHTING: PRX22LX-65L	MULTIPLE
BE		(1) 52W LED	LED ROUND HIGH BAY W/ BATTERY BACKUP	SPECTRUM LIGHTING: PRX22LX-65L-EM	MULTIPLE
C		(1) 27.5W LED	6" LED RECESSED DOWNLIGHT SELECTABLE	HALO: HCG/HMG-0525	MULTIPLE
CE		(1) 27.5W LED	6" LED RECESSED DOWNLIGHT SELECTABLE W/ BATTERY BACKUP	HALO: HCG/HMG-0525-EM	MULTIPLE
D		(1) 39.8W LED	EXTERIOR CYLINDRICAL WALL SCONCE	ZANEEN: MONACO SURFACE E9W350	MULTIPLE
XC		(2) 1.5W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	SURE-LITES: APC7RG	MULTIPLE
XR		(1) INCLUDED	REMOTE DUAL LAMP HEAD	SURE-LITE: APWR2H	MULTIPLE

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DRAWN:	CHECKED:
JG	BA
APPROVED:	ISSUE DATE:
BA	10/22/2026

REVISIONS:

No.	ISSUE	Date

SHEET NAME:
SCHEDULES & COMPLIANCE REPORT

PROJECT NUMBER: 26015

SHEET NUMBER:
E0.3

GENERAL NOTES

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146. WHERE RECEPTACLES ARE INSTALLED IN LOCATIONS DEFINED BY ARTICLE 406.12, THEY SHALL BE TAMPER-RESISTANT.

COORDINATE FINAL RECEPTACLE LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT.

FOR ALL KITCHEN EQUIPMENT, SEE EQUIPMENT SCHEDULE FOR ELECTRICAL CONNECTION INFORMATION AND OTHER GENERAL INFORMATION. KITCHEN APPLIANCE CONNECTION LOCATION TO BE COORDINATED WITH THE ACTUAL EQUIPMENT INSTALLED. REFER TO ARCHITECTURAL DOCUMENTS FOR MOUNTING HEIGHT AND DIMENSIONS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

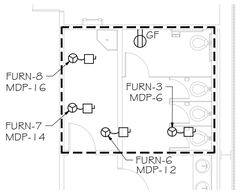
ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS IN BAR, KITCHEN, AND FOOD PREP AREAS SHALL BE GFI PER NEC 210.8(B). GFCI MUST BE READILY ACCESSIBLE FOR TESTING. FOR RECEPTACLES OBSTRUCTED FROM ACCESSIBILITY BY EQUIPMENT, ACCEPTABLE ALTERNATIVES TO A GFCI RECEPTACLE ARE REMOTE TEST BUTTONS, GFCI BREAKERS, OR GFCI RECEPTACLES UPSTREAM ON THE SAME CIRCUIT. COUNTER EQUIPMENT AND EQUIPMENT ON CASTERS OR STANDS THAT CAN BE MOVED EASILY ARE DEEMED TO PROVIDE READY ACCESS.

DISCONNECT SWITCHES SHALL BE FIELD COORDINATED FOR EXACT LOCATIONS. DISCONNECTING MEANS SHALL BE INSTALLED SUCH THAT THEY ARE READILY ACCESSIBLE WITH ADEQUATE WORKING CLEARANCES. DISCONNECTING MEANS SHALL BE INSTALLED SUCH THAT THE OPERABLE PORTION OF THE HANDLE WHILE IN THE HIGHEST POSITION SHALL NOT BE GREATER THAN 79" AFF.

CONTRACTOR TO COORDINATE ALL LOW VOLTAGE DEVICES AND REQUIREMENTS WITH LOW VOLTAGE CONSULTANTS PRIOR TO ROUGH-IN.

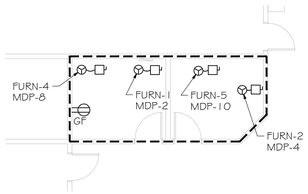
KEYNOTES

1. WEATHERPROOF J-BOX FOR EXTERIOR SIGN. COORDINATE IN FIELD WITH SIGN INSTALLER FOR LOCATION AND OTHER REQUIREMENTS. EXTERIOR SIGN TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL AND TIMER.
2. NEW ELECTRICAL DISTRIBUTION EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. ENSURE ADEQUATE CLEARANCE AND WORKING SPACE IS MAINTAINED PER NEC 110.26.
3. COORDINATE EXACT LOCATION FOR UTILITY TRANSFORMER WITH CIVIL/ARCHITECT.
4. LOCATION OF ELECTRIC TANK WATER HEATER AND RECIRCULATING PUMP. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. FIELD COORDINATE PLACEMENT FOR TELEPHONE TERMINAL BOARD (TTB) AND ROUTE TWO (2) 2"C FROM TELEPHONE UTILITY DEMARCATION POINT WITH PULL STRING.
6. POWER AND DATA FOR TV. FIELD COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
7. CONFIRM FINAL INTENT FOR FLOOR POWER, DATA, & HMDI NEEDS FOR MULTIPURPOSE ROOM TABLE AND ANY CONNECTIONS NEEDED TO TELEVISION WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE LOCKABLE BREAKER FOR HAND DRYER PER NEC 422.31.
9. FIELD COORDINATE EXACT A/V NEEDS WITH OWNER PRIOR TO ROUGH-IN. CONTRACTOR TO PROVIDE AN ALLOWANCE TO PROVIDE TWO (2) 2-INCH CONDUIT UNDERSLAB FROM STAGE TO REAR OF EACH AUDITORIUM. VERIFY FINAL INTENT AND CONDUIT QUANTITY WITH OWNER PRIOR TO ROUGH-IN. FINAL TERMINATION LOCATION TO BE PROVIDED/FIELD DETERMINED. PROVIDE PULL STRING. CONDUIT ROUTING SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
10. PROVIIDE POWER FOR GPS GRIDSET AT DUCTWORK. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. PROVIDE POWER FOR 120V MOTORIZED DAMPER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND CONTROL.

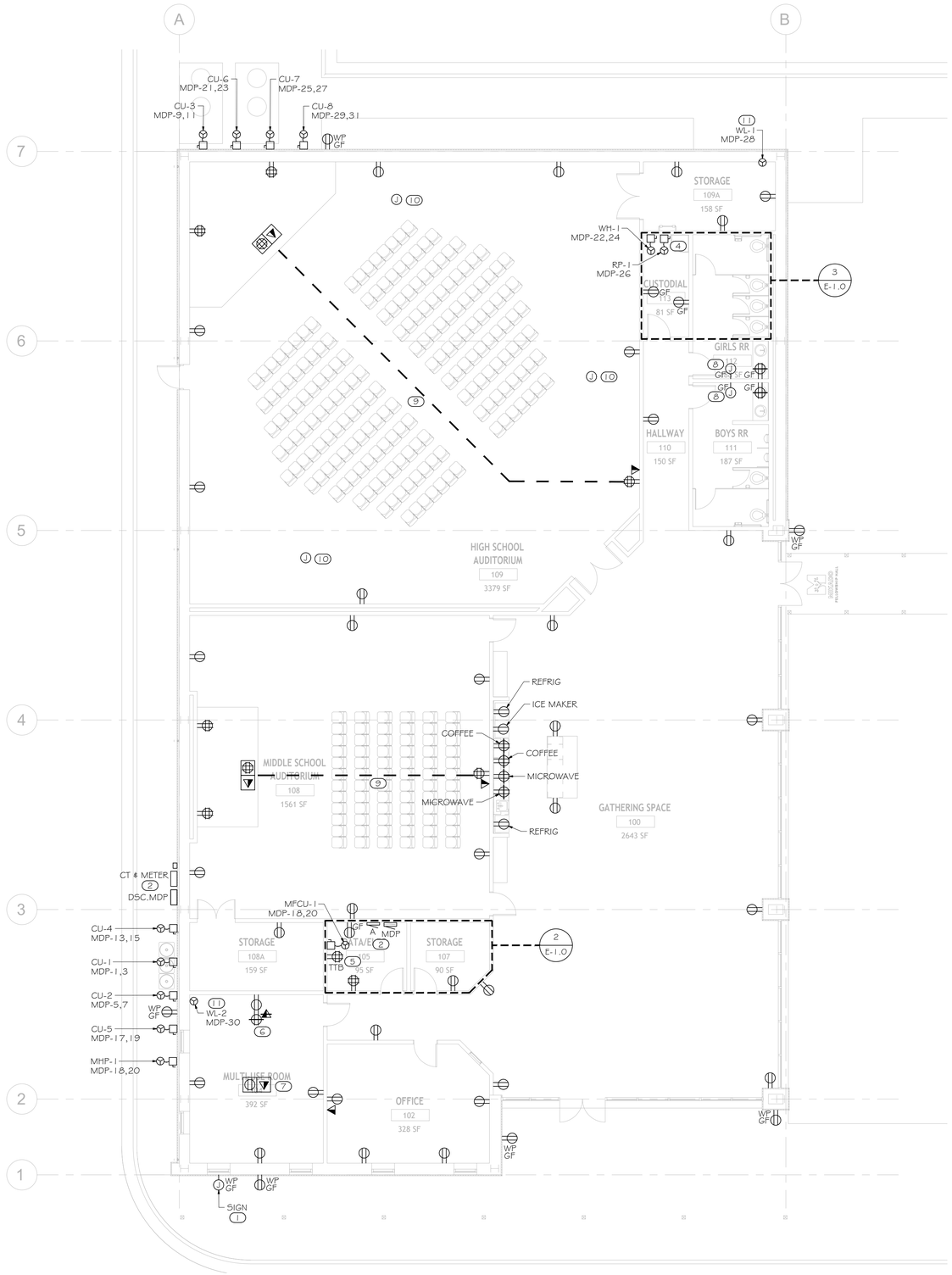


3 E1.0 NORTH MECH PLATFORM FLOOR PLAN - POWER
1/8" = 1'-0"

UTILITY (3) T



2 E1.0 SOUTH MECH PLATFORM FLOOR PLAN - POWER
1/8" = 1'-0"



1 E1.0 OVERALL FLOOR PLAN - POWER
1/8" = 1'-0"

STROUD AND COMPANY
427 8th Street : Macon, Ga 31201
478-743-5097

ALL Architecture, LLC
2052 CHRYSLER DRIVE NE
ATLANTA, GA 30345
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PROJECT NAME:
MIKADO BAPTIST CHURCH
FELLOWSHIP HALL

PROJECT ADDRESS:
6751 HOUSTON RD
MACON, GA 31216

STAMP:

PRELIMINARY
10/22/2026

DRAWN:	CHECKED:
JG	BA
APPROVED:	ISSUE DATE:
BA	10/22/2026

REVISIONS:

No.	ISSUE	Date

SHEET NAME:

FLOOR PLAN - POWER

PROJECT NUMBER: 26015

SHEET NUMBER:

E1.0

NOT ISSUED FOR CONSTRUCTION

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

COORDINATE AND CONFIRM WITH ARCHITECT ALL LIGHT FIXTURE LOCATIONS AND MODELS PRIOR TO PURCHASE AND INSTALLATION.

EXTERIOR LIGHTING FIXTURES TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL / TIMER.

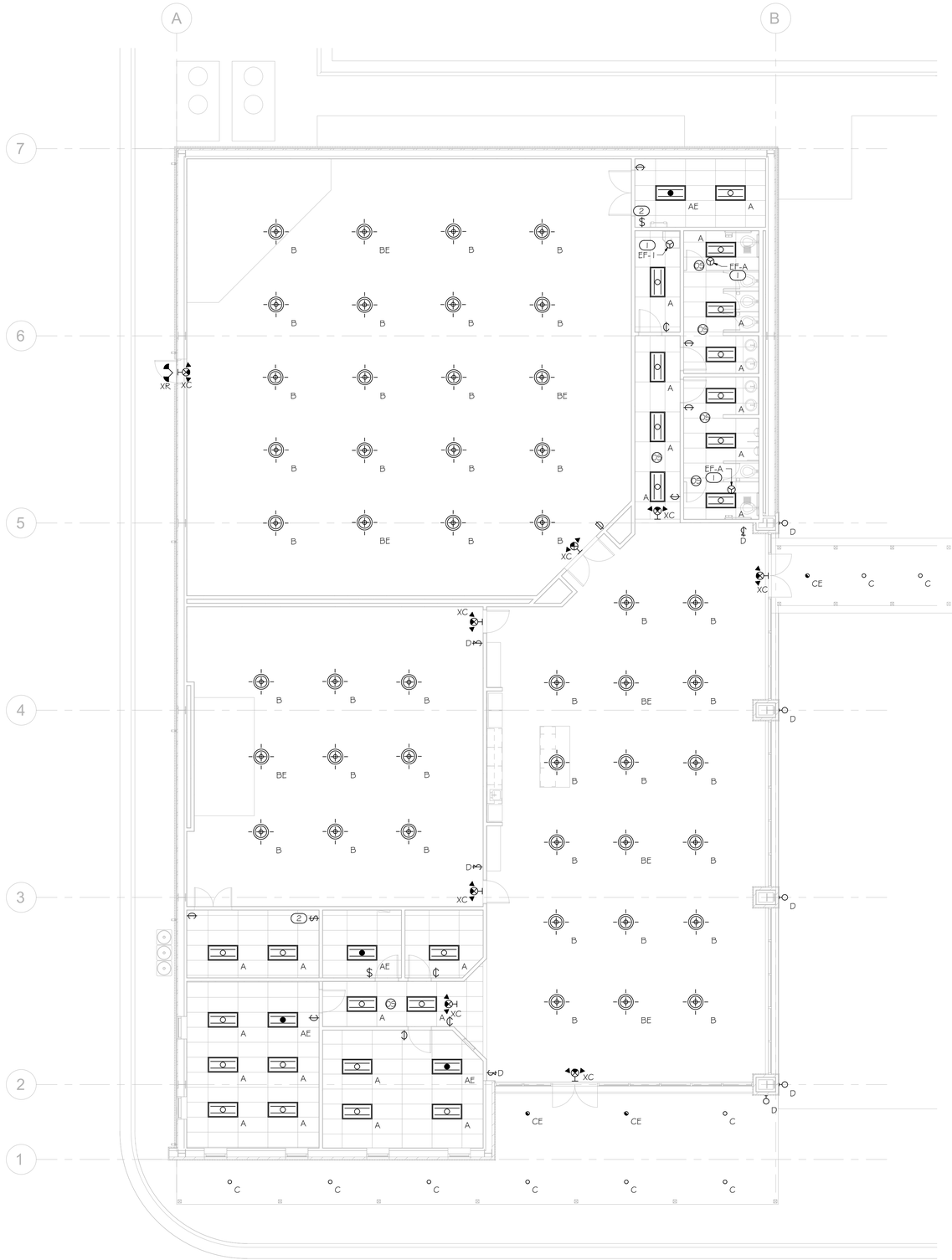
AUTOMATIC SHUTOFF LIGHTING DEVICES AND LIGHT REDUCTION CONTROLS ARE TO BE PROVIDED AS REQUIRED BY THE IECC CODE. ELECTRICAL CONTRACTOR TO SUPPLY TENANT/OWNER WITH OPTIONS FOR ANY SHUTOFF DEVICES THAT MAY BE REQUIRED.

FIELD COORDINATE EXACT LOCATION OF SWITCHES AND LIGHTING CONTROLS REQUIREMENTS WITH ARCHITECT/OWNER.

KEYNOTES

(1) EXHAUST FAN TO BE CONTROLLED WITH LIGHT SWITCH.

(2) PROVIDE LIGHT SWITCH FOR ATTIC WALKWAY AND MECH PLATFORM. FIELD COORDINATE EXACT LOCATION. CONTRACTOR TO PROVIDE KEYLESS LIGHT FIXTURES THROUGHOUT ATTIC AS NEEDED TO PROVIDE MAINTENANCE ILLUMINATION.



1 E2.0 OVERALL FLOOR PLAN - LIGHTING
1/8" = 1'-0"

NOT ISSUED FOR CONSTRUCTION

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REVISIONS:

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SHEET NAME:

FLOOR PLAN - LIGHTING

PROJECT NUMBER: 26015

SHEET NUMBER:

E2.0

SPECIFICATIONS

GENERAL NOTES:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE. WHERE DUCTWORK PENETRATES A FIRE WALL OR FIRE PARTITION, ALL PENETRATIONS SHALL BE PROTECTED BY FIRE DAMPERS (FD) TO MAINTAIN THE WALL'S RATED ASSEMBLY. WHERE DUCTWORK PENETRATES A FIRE/SMOKE WALL OR SMOKE PARTITION, ALL PENETRATIONS SHALL BE PROTECTED BY FIRE SMOKE DAMPERS (FSD). FIRE DAMPERS AND FIRE SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR UL LISTING AND APPLICABLE CODES AND STANDARDS. DAMPERS MAY BE OMITTED WHERE PENETRATION DOES NOT OCCUR IN A RATED ASSEMBLY OR WHERE AN EXCEPTION IS PERMITTED PER THE APPLICABLE BUILDING CODE. REFER TO ARCHITECTURAL DOCUMENTS FOR WALL AND PARTITION RATINGS.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.

GUARANTEE:

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

TEST AND BALANCE:

TEST AND BALANCE (TAB) CONTRACTOR SHALL HOLD A CURRENT NATIONAL BALANCING COUNCIL (NBC) CERTIFICATION AND POSSESS ACCURATE AND CALIBRATED INSTRUMENTS. TAB WORK AND REPORTS SHALL BE PER NBC PRACTICAL STANDARDS, PROCEDURES AND FORMS. ACCEPTABLE ALTERNATIVE TAB FIRM CERTIFICATIONS/PROCEDURES: NEBB, AABC, OR TABB.

PRIOR TO COMMENCEMENT OF THE TAB WORK, THE MECHANICAL SYSTEMS ARE TO BE STARTED AND FULLY FUNCTIONING. A CHECKLIST PRIOR TAB WORK IS TO BE SENT TO THE INSTALLING CONTRACTOR AND RETURNED ATTESTING TO THE READINESS OF THE SYSTEMS FOR BALANCING.

IN ADDITION TO STANDARD TESTING PROCEDURES, THE TAB CONTRACTOR SHALL RECORD AND REPORT THE LEAVING AIR TEMPERATURES OF ALL UNITS DURING HEATING MODE, COOLING MODE, AND IF APPLICABLE, REHEAT MODE.

PREFERRED TAB FIRM: P-TAB.COM

CEILING FAN:

CEILING MOUNTED EXHAUST FANS SHALL BE OF THE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING SHALL BE CONSTRUCTED OF STEEL. THE PLASTIC DUCT COLLAR SHALL BE A TAPERED SLEEVE FOR EASE OF CONNECTION TO 3 IN AND 4 IN ROUND DUCTWORK AND SHALL INCLUDE A BACKDRAFT DAMPER. THE GRILLE SHALL BE CONSTRUCTED OF NON-YELLOWING HIGH STRENGTH POLYMER AND ATTACHED TO THE HOUSING WITH TORSION SPRINGS. THE WHEELS SHALL BE CONSTRUCTED OF HIGH STRENGTH POLYMER. THE ACCESS FOR WIRING SHALL BE EXTERNAL. THE MOTOR DISCONNECT SHALL BE INTERNAL AND OF THE PLUG IN TYPE.

ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEALS FOR SOUND AND AIR PERFORMANCE AND SHALL BE U.L. LISTED.

DUCT INSULATION:

R-6 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN CONDITIONED AND UNCONDITIONED SPACES
R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING
R-8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

WALL LOUVERS:

THE WALL LOUVER SHALL BE AMCA CERTIFIED. THE WALL LOUVER SHALL BE A STATIONARY, DRAINABLE BLADE TYPE. THE LOUVER SHALL INCORPORATE DRAIN GUTTERS IN THE HEAD MEMBER AND HORIZONTAL BLADES TO CHANNEL WATER TO THE JAMBS WHERE WATER IS FURTHER CHANNELED THROUGH VERTICAL DOWNSPOUTS AND OUT A SLOPED SILL.

THE FRAME AND BLADES SHALL BE CONSTRUCTED FROM HEAVY GAUGE, EXTRUDED, ALUMINUM. THE LOUVER SHALL BE OF MECHANICALLY FASTENED CONSTRUCTION.

REFER TO THE EQUIPMENT SCHEDULE FOR A FULL LISTING OF REQUIRED LOUVER ACCESSORIES.

SPECIFICATIONS

DUCTWORK AND ACCESSORIES:

INDUSTRY STANDARDS: COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.

COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.

DUCTWORK METAL AND GAUGES: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.

DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.

EXPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.

VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE-WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH 'DUCT INSULATION' BELOW.

DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE SHALL BE THERMADUCT PRODUCTS OR COVERED WITH 3M VENTURECLAD JACKETING, OR EQUAL PRODUCT, AND SEALED WEATHER-TIGHT.

DIFFUSERS, GRILLES, & REGISTERS:

LOUVERED FACE DIFFUSERS:

CEILING DIFFUSERS SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. A UNIFORM FACE SIZE AND APPEARANCE WHEN DIFFERENT NECK SIZES ARE USED IN THE SAME AREA. ALL CONES SHALL BE ONE PIECE PRECISION DIE-STAMPED; THE BACK CONE SHALL ALSO INCLUDE AN INTEGRALLY DRAWN INLET (WELDED-IN INLETS AND CORNER JOINTS ARE NOT ACCEPTABLE). THE TWO INNER CONES SHALL BE CONSTRUCTED AS A SINGLE, REMOVABLE INNER CONE ASSEMBLY FOR EASY INSTALLATION AND CLEANING. THE INNER CONE ASSEMBLY MUST HAVE A HOLE WITH REMOVABLE PLUG IN THE CENTER TO ALLOW QUICK ADJUSTMENT OF AN OPTIONAL INLET DAMPER WITHOUT REMOVING THE INNER CONE ASSEMBLY. DIFFUSERS SHALL BE CONSTRUCTED OF 24-GAUGE STEEL OR 0.040 ALUMINUM.

THE FINISH SHALL BE #2G WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315°F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H. THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

OPTIONAL ROUND DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL. DAMPER MUST BE OPERABLE FROM THE FACE OF THE DIFFUSER. OPTIONAL SECTORIZING BAFFLES SHALL BE AVAILABLE TO RESTRICT THE DISCHARGE AIR IN CERTAIN DIRECTIONS.

OPTIONAL MOLDED INSULATION BLANKET SHALL BE AVAILABLE. THE INSULATION WILL BE R-6, FOIL-BACKED AND PROVIDED AN ADDITIONAL 1-INCH GAP AROUND THE NECK TO INSTALL INSULATED FLEX DUCT.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE SQUARE DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.

EGGCRATE GRILLE:

RETURN GRILLES SHALL BE TITUS MODEL 50F FOR THE SIZES AND MOUNTING TYPES AS SHOWN ON THE PLANS AND OUTLET SCHEDULE. RETURN GRILLES MUST PROVIDE A FREE AREA OF AT LEAST 90%. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.040-0.050 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 1¼ INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. CHOICE OF THREE SIZES OF ALUMINUM GRID: ½ X ½ X ½ INCH, ½ X ½ X 1 INCH, OR 1 X 1 X 1 INCH SHALL BE AVAILABLE.

OPTIONAL OPPOSED-BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

DOUBLE DEFLECTION REGISTERS:

ALUMINUM SUPPLY GRILLES SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE DEFLECTION BLADES SHALL BE AVAILABLE PARALLEL TO THE LONG OR SHORT DIMENSION OF THE GRILLE OR REGISTER. CONSTRUCTION SHALL BE OF ALUMINUM WITH A 1¼-INCH WIDE BORDER ON ALL SIDES. SIZES 24 X 24 INCHES AND BELOW SHALL HAVE ROLL-FORMED BORDERS WITH A MINIMUM THICKNESS OF 0.032 INCH. LARGER SIZES SHALL BE CONSTRUCTED USING CONTINUOUS ALUMINUM EXTRUSIONS WITH A NOMINAL THICKNESS OF 0.040 THROUGH 0.050 INCH AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. SCREW HOLES SHALL BE COUNTERSUNK FOR A NEAT APPEARANCE.

DEFLECTION BLADES SHALL BE CONTOURED TO A SPECIFICALLY DESIGNED AND TESTED CROSS-SECTION TO MEET PUBLISHED TEST PERFORMANCE DATA. BLADES SHALL BE SPACED ON ¾-INCH CENTERS. BLADES SHALL HAVE FRICTION PIVOTS ON BOTH SIDES TO ALLOW INDIVIDUAL BLADE ADJUSTMENT WITHOUT LOOSENING OR RATTLING OR BE INSERTED THROUGH THE FRAME AND HELD TIGHT WITH STEEL FRICTION WIRE INTERLOCKED TO THE FRAME ON BOTH ENDS OF EACH SIDE. PLASTIC BLADE PIVOTS ARE NOT ACCEPTABLE.

OPTIONAL OPPOSED BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

THE GRILLE FINISH SHALL BE #2G WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315° F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H. THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE GRILLE. THE GRILLE SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.

DUCTLESS SPLIT SYSTEM

WALL-MOUNTED INDOOR UNIT
STANDARD PREFILTER IS INCLUDED WITH INDOOR UNIT
CHOICE OF FAN SPEEDS: LOW, MEDIUM, HIGH
INDOOR UNIT POWERED FROM OUTDOOR UNIT
AUTO RESTART FOLLOWING A POWER OUTAGE
BASE HEATER
LIMITED WARRANTY: FIVE YEARS ON PARTS AND DEFECTS AND SEVEN YEARS ON THE COMPRESSOR

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

SPECIFICATIONS

GAS FURNACE:

FURNISH A SCHEDULED FIXED CAPACITY GAS-FIRED FURNACE FOR USE WITH NATURAL GAS OR PROPANE, FURNISH COLD AIR RETURN PLENUM; FURNISH EXTERNAL MEDIAL CABINET FOR USE WITH ACCESSORY MEDIA FILTER OR STANDARD FILTER.

QUALITY ASSURANCE: UNIT WILL BE DESIGNED, TESTED AND CONSTRUCTED TO THE CURRENT ANSI Z21.47/CSA 2.3 DESIGN STANDARD FOR GAS-FIRED CENTRAL FURNACES. UNIT WILL BE 3RD PARTY CERTIFIED BY CSA TO THE CURRENT ANSI Z21.47/CSA 2.3 DESIGN STANDARD FOR GAS-FIRED CENTRAL FURNACES. UNIT WILL CARRY THE CSA BLUE STARR AND BLUE FLAMER LABELS. UNIT EFFICIENCY TESTING WILL BE PERFORMED PER THE CURRENT DOE TEST PROCEDURE AS LISTED IN THE FEDERAL REGISTER. UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY AND LISTED IN THE LATEST GAMA CONSUMER'S DIRECTORY OF CERTIFIED EFFICIENCY RATINGS. UNIT SHALL CARRY THE CURRENT FEDERAL TRADE COMMISSION ENERGY GUIDE EFFICIENCY LABEL.

DELIVERY, STORAGE AND HANDLING: UNIT SHALL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.

COMPONENTS SHALL INCLUDE: SLOW-OPENING GAS VALVE TO REDUCE IGNITION NOISE, REGULATE GAS FLOW, WITH ELECTRIC SWITCH GAS SHUT-OFF; FLAME PROVING SENSOR, HOT SURFACE IGNITER, PRESSURE SWITCH ASSEMBLY, FLAME ROLLOUT SWITCH, BLOWER AND INDUCER ASSEMBLY, 40VA TRANSFORMER; DIGITAL LOW-VOLTAGE HEATING/COOLING THERMOSTAT.

BLOWER WHEEL AND BLOWER MOTOR: GALVANIZED BLOWER WHEEL SHALL BE CENTRIFUGAL TYPE, STATICALLY AND DYNAMICALLY BALANCED. BLOWER MOTOR OF PSC TYPE SHALL BE PERMANENTLY LUBRICATED WITH SEALED BEARINGS, AND SHALL BE MULTIPLE-SPEED DIRECT DRIVE. BLOWER MOTOR SHALL BE SOFT MOUNTED TO THE BLOWER SCROLL TO REDUCE VIBRATION TRANSMISSION.

FURNACE MAY HAVE REUSABLE FILTERS.

CASING SHALL BE OF .030 IN. THICKNESS MINIMUM, PRE-PAINTED GALVANIZED STEEL.

INDUCER MOTOR SHALL BE SOFT MOUNTED TO REDUCE VIBRATION TRANSMISSION.

DRAFT SAFEGUARD SWITCH SHALL BE FACTORY INSTALLED TO REDUCE THE POSSIBILITY OF VENT GAS INFILTRATION DUE TO A BLOCKED OR RESTRICTED VENT PIPE.

HEAT EXCHANGERS SHALL BE A 4-PASS 20 GAGE ALUMINIZED STEEL OF FOLD-AND-CRIMP SECTIONAL DESIGN WHEN APPLIED OPERATING UNDER NEGATIVE PRESSURE.

CONTROL SHALL INCLUDE A MICRO-PROCESSOR BASED INTEGRATED ELECTRONIC CONTROL BOARD WITH AT LEAST 11 SERVICE TROUBLESHOOTING CODES DISPLAYED VIA DIAGNOSTIC FLASHING LED LIGHT ON THE CONTROL, A SELF-TEST FEATURE THAT CHECKS ALL MAJOR FUNCTIONS OF THE FURNACE WITHIN ONE MINUTE, AND A REPLACEABLE AUTOMOTIVE-TYPE CIRCUIT PROTECTION FUSE. MULTIPLE OPERATIONAL SETTINGS AVAILABLE INCLUDING, SEPARATE BLOWER SPEEDS FOR HEATING, COOLING AND CONTINUOUS FAN. CONTINUOUS FAN SPEED MAY BE ADJUSTED FROM THE THERMOSTAT. COOLING AIRFLOW WILL BE SELECTABLE BETWEEN 350 OR 400 CFM PER TON OF AIR CONDITIONING.

CONDENSER UNIT

OUTDOOR-MOUNTED, AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER UNIT SUITABLE FOR GROUND OR ROOFTOP INSTALLATION. UNIT CONSISTS OF A HERMETIC COMPRESSOR, AN AIR-COOLED COIL, PROPELLER-TYPE CONDENSER FAN, AND A CONTROL BOX. UNIT WILL DISCHARGE SUPPLY AIR UPWARD AS SHOWN ON CONTRACT DRAWINGS. UNIT WILL BE USED IN A REFRIGERATION CIRCUIT TO MATCH UP TO A PACKAGED FAN COIL OR COIL UNIT.

QUALITY ASSURANCE: UNIT WILL BE RATED IN ACCORDANCE WITH THE LATEST EDITION OF AHRI STANDARD 210. UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY, AND LISTED IN THE LATEST AHRI DIRECTORY. UNIT CONSTRUCTION WILL COMPLY WITH LATEST EDITION OF ANSI/ ASHRAE AND WITH NEC. UNIT WILL BE CONSTRUCTED IN ACCORDANCE WITH UL STANDARDS AND WILL CARRY THE UL LABEL OF APPROVAL. UNIT WILL HAVE C-UL-US APPROVAL. UNIT CABINET WILL BE CAPABLE OF WITHSTANDING FEDERAL TEST METHOD STANDARD NO. 141 (METHOD 606.1) 500-HR SALT SPRAY TEST. AIR-COOLED CONDENSER COILS WILL BE LEAK TESTED AT 150 PSIG AND PRESSURE TESTED AT 450 PSIG. UNIT CONSTRUCTED IN ISO9001 APPROVED FACILITY.

DELIVERY, STORAGE, AND HANDLING: UNIT WILL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.

EQUIPMENT: FACTORY ASSEMBLED, SINGLE PIECE, AIR-COOLED AIR CONDITIONER UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE A2L, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START-UP.

UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT. 3 PHASE EQUIPMENT AVAILABLE WITH DENSE GRILLE ONLY. SINGLE PHASE EQUIPMENT AVAILABLE WITH WIDE (W) OR DENSE (A) GRILLE OPTION.

CONDENSER FAN WILL BE DIRECT-DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD. CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, 1-PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS. SHAFTS WILL BE CORROSION RESISTANT. FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED. CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH COATED STEEL WIRE SAFETY GUARDS.

COMPRESSOR WILL BE HERMETICALLY SEALED. COMPRESSOR WILL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.

CONDENSER COIL WILL BE AIR COOLED. COIL WILL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.

REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF A2L REFRIGERANT, AND COMPRESSOR OIL. UNIT WILL BE EQUIPPED WITH HIGH-PRESSURE SWITCH, LOW PRESSURE SWITCH AND FILTER DRIER FOR PURON REFRIGERANT.

LEGEND

SYMBOLS	DESCRIPTION
X1 / X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 = TYPE, X2 = CFM
	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER (MVD)
	BACKDRAFT DAMPER (BDD)
FD	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
T	THERMOSTAT
H	HUMIDISTAT
S	REMOTE TEMPERATURE SENSOR
	INTERNALLY LINED DUCT
	DUCT UP
	DUCT UP
	DUCT DOWN
	SUPPLY DUCT
UNIT #	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	M	MOTOR
BDD	BACKDRAFT DAMPER	MA	MAKE-UP AIR
AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT
CO2	CARBON DIOXIDE	MAV	MANUAL AIR VENT
CU	CONDENSING UNIT	MBH	1,000 BTU PER HR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
DH	DEHUMIDIFIER	MVD	MANUAL VOLUME DAMPER
EA	EXHAUST AIR	NC	NORMALLY CLOSED
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN
EDH	ELECTRIC DUCT HEATER	OA	OUTSIDE AIR
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER
ESP	EXTERNAL STATIC PRESSURE	PIU	POWER INDUCTION UNIT
EWH	ELECTRIC WALL HEATER	RA	RETURN AIR
F	DEGREES FAHRENHEIT	RH	RELIEF HOOD
FCU	FAN COIL UNIT	RTU	ROOFTOP UNIT
FD	FIRE DAMPER	SA	SUPPLY AIR
FSD	COMBINATION FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FURN	FURNACE	U.N.O	UNLESS NOTED OTHERWISE
H	HUMIDISTAT	UC	UNDER CUT DOOR
IH	INTAKE HOOD	VAV	VARIABLE AIR VOLUME
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LWT	LEAVING WATER TEMPERATURE	WL	WALL LOUVER

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PROJECT NAME:
MIKADO BAPTIST CHURCH
FELLOWSHIP HALL

PROJECT ADDRESS:
6751 HOUSTON RD
MACON, GA 31216

STAMP:

PRELIMINARY
10/22/2026

DRAWN:	CHECKED:
SC	PK
APPROVED:	ISSUE DATE:
PK	10/22/2026

REVISIONS:

No.	ISSUE	Date

SHEET NAME:

GENERAL

PROJECT NUMBER: 26015

SHEET NUMBER:

M0.1

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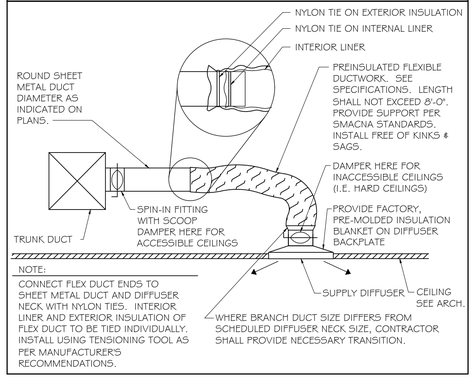
DIFFUSER TAKE-OFF DETAIL

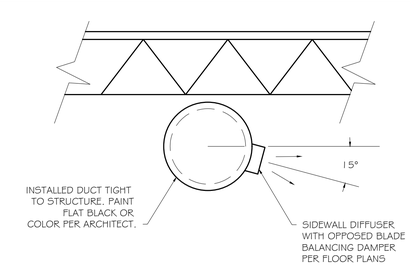
NO SCALE



NOTE:
CONNECT FLEX DUCT ENDS TO SHEET METAL DUCT AND DIFFUSER NECK WITH NYLON TIES. INTERIOR LINER AND EXTERIOR INSULATION OF FLEX DUCT TO BE TIED INDIVIDUALLY. INSTALL USING TENSIONING TOOL AS PER MANUFACTURER'S RECOMMENDATIONS.

DIFFUSER DETAIL FOR EXPOSED DUCT

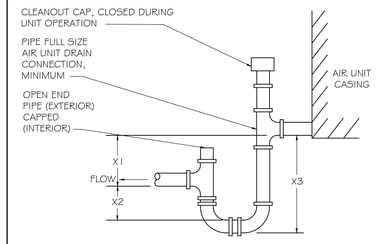
NO SCALE



NOTE:
CURVED DIFFUSERS MOUNTED TO SPIRAL ACCEPTABLE ALTERNATIVE.

CONDENSATE TRAP (DRAW THROUGH UNIT)

NO SCALE



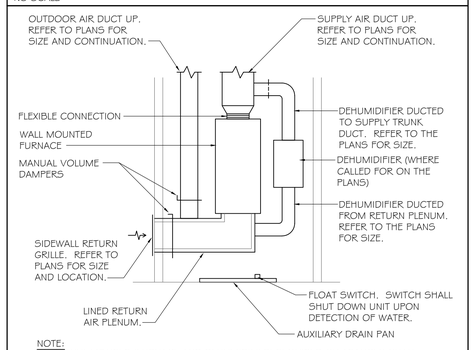
WHERE:

X1 =1" PLUS MAXIMUM NEGATIVE STATIC PRESSURE
X2 =HALF OF X1
X3 =X1 +X2+PIPE Ø+INSULATION

NOTES
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

VERTICAL FURNACE DETAIL

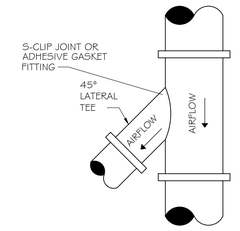
NO SCALE



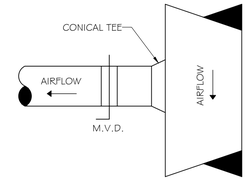
NOTE:
ALL MANUFACTURER (FURNACE AND DEHUMIDIFIER) REQUIRED CLEARANCES SHALL BE OBSERVED.

DUCTWORK DETAILS

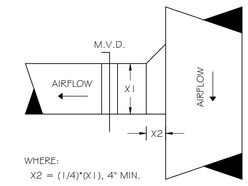
NO SCALE



ROUND - ROUND



RECTANGULAR - ROUND



WHERE:
X2 = (1/4)*(X1), 4" MIN.

RECTANGULAR - RECTANGULAR

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DETAILS

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DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS2418	EGGCRATE GRILLE	24x18	24x18	25	TITUS 50F
SCL06	LOUVERED FACE SUPPLY	24x24	6Ø	25	TITUS TMS
SCL08	LOUVERED FACE SUPPLY	24x24	8Ø	25	TITUS TMS
SS1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS
SS1806	DOUBLE DEFLECTION SUPPLY	20x8	18x6	25	TITUS 300FS

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	ESP (IN WG)	MOTOR (W / HP*)	DRIVE	MAX NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS		
										1	2	3
EF-1	EXHAUST	CEILING CABINET	70	0.5	100	DIRECT	2.0	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X
EF-A	EXHAUST	CEILING CABINET	280	0.5	240	DIRECT	4.0	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

1. INTEGRATED FAN SPEED CONTROLLER INSIDE FAN FOR BALANCING.
2. FACTORY DISCONNECT SWITCH/PLUG.
3. GRAVITY BACKDRAFT DAMPER.

LOUVERS

SYMBOL	MODEL / SERIES	SERVES	SIZE (WxH) (IN)	MIN FREE AREA (SF)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	REMARKS		
										1	2	3
WL-1	ESD-635	FURN-3, FURN-6, FURN-7 & FURN-8	18x24	1.3	725	0.05	MOD	FURN-3, FURN-6, FURN-7 & FURN-8	ALUMINUM	X	X	X
WL-2	ESD-635	FURN-1, FURN-2, FURN-4 & FURN-5	30x24	2.3	1,305	0.05	MOD	FURN-1, FURN-2, FURN-4 & FURN-5	ALUMINUM	X	X	X

NOTES (APPLY TO ALL):

A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL.
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.

REMARKS (APPLY AS SCHEDULED):

1. BIRD SCREEN
2. BAKED ON ENAMEL FINISH.
3. 120V MOTORIZED DAMPER.

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						OUTDOOR UNIT				COMBINED CAPACITIES	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS	CFM (LOW THRU TURBO SETTINGS)	MARK	MIN. SEER2	MIN. HSPF2	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	DATA/ELEC. ROOM	WALL-MOUNTED, COOLING ONLY	45MHHAC24	2.00	400 / 471 / 588 / 706	MHP-1	18.5	--	37MHRAC24	27.0	--

NOTES (APPLY TO ALL):

A. BASIS OF DESIGN: CARRIER. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, MITSUBISHI, JCI/YORK.
B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
C. UNITS SHALL BE DOE 2023 COMPLIANT AND NOT USE R-410a REFRIGERANT.
D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
E. WALL MOUNTED WIRED REMOTE CONTROLLER.
F. INVERTER DRIVEN COMPRESSOR.
G. MOUNT OUTDOOR UNIT ON ROOF.
H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 82 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUFACTURER LINE SET LIMITATIONS.

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT														COMBINED COOLING CAPACITIES						REMARKS								
						HEATING								COOLING														
MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (hp)	GAS TYPE	EFF. AFUE	GAS IN (BTUH)	GAS OUT (BTUH)	TRANE FURNACE BASIS OF DESIGN	TRANE COIL BASIS OF DESIGN	MIN. SEER2	REFR.	TRANE BASIS OF DESIGN	NOMINAL TONNAGE	TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8	9
FURN-1 / CU-1	OFFICES	1,100	220	0.50	3/4	NATURAL	80%	60,000	48,700	TRANE S8X1B	TRANE 5TXCB003A53HCA	14.3	R-454B	TRANE 5TTA403GA3	3.0	31.9	25.2	6.7	77.5	64.3	56.0	54.4	X	X	X	X	X	X	X		
FURN-2 / CU-2	GATHERING	1,800	225	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	X
FURN-3 / CU-3	GATHERING	1,800	225	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	
FURN-4 / CU-4	MS AUDITORIUM	1,800	430	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	X
FURN-5 / CU-5	MS AUDITORIUM	1,800	430	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	X
FURN-6 / CU-6	HS AUDITORIUM	1,800	165	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	X
FURN-7 / CU-7	HS AUDITORIUM	1,800	165	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	
FURN-8 / CU-8	HS AUDITORIUM	1,800	170	0.50	1	NATURAL	80%	80,000	64,700	TRANE S8X1C	TRANE 5TXCC009A53HCA	14.3	R-454B	TRANE 5TTA4060A3	5.0	55.8	44.5	11.3	80.0	66.2	56.7	55.8	X	X	X	X	X	X	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.
C. BASIS OF DESIGN: TRANE. SEE SPECIFICATIONS. ACCEPTABLE ALTERNATES: CARRIER, JCI/YORK, DAIKIN, LENNOX.
D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, OVERFLOW DRAIN LINE OR EQUIPMENT SUPPLIED DRAIN PAN. WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
F. UNITS SHALL BE DOE 2023 COMPLIANT AND NOT USE R-454b REFRIGERANT.

REMARKS (APPLY AS SCHEDULED):

1. PROGRAMMABLE THERMOSTAT.
2. 2-PIPE DIRECT VENTING KIT. PROVIDE CONCENTRIC TERMINATION AT ROOF OR WALL. VENT SIZE, MATERIALS AND TERMINATION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
3. LOW AMBIENT PACKAGE.
4. DISPOSABLE FILTER.
5. ANTI-SHORT CYCLE TIMER.
6. INDOOR FAN DELAY KIT.
7. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
8. MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
9. EASYDRI DEHUMIDIFICATION.

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SCHEDULES

PROJECT NUMBER: 26015

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M0.3

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smartIAQ

smartIAQ GridSet

Intelligent Clean Air System ASHRAE 62.1 IAQP Calculator

smartIAQ™ from GPS Air: www.gpsair.com/smartIAQ Calculator v 8.17

Project & HVAC Equipment Inputs

Equip ID	FURN-6, FURN-7 & FURN-8
Project Location:	Atlanta, GA
Facility Type	Educational Facilities
Zone Floor Area (Az) (ft2)	3,540
Outdoor Airflow (Vot) (cfm)	500
Return Airflow (Vr) (cfm)	4,900
Zone Count	1
Zone Height (ft.)	9.0
Outdoor Air Filter	MERV11
Ventilation Effectiveness (Ez)	0.80
Outdoor Air Flow Type	Constant

IAQP Design Parameters

smartIAQ Cleaning Capacity (Vc) (cfm)	**450**
smartIAQ GridSet units	**3**

GridSet Clean Air Delivery

Vc: 450 cfm with ~0.8 ACH

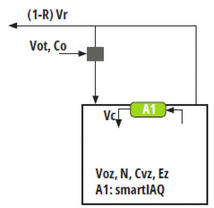
AIR CLEANER COMPLIANCE 62.1-2025 & -2022

Filter efficiencies determined by 3rd party testing to ASHRAE Standards 145.2, 52.2, 62.1-2025 & -2022 Addenda N & AA

Zone Table

Z#	Area (ft^2)	Zone Use	Zone Supply Air (Vsz)	People	People Rate (CFM)	Area Rate (CFM)	VRP O.A. (CFM)	IAQP O.A. (CFM)	Vc Zone (CFM)	Name
1	3,540	Multiuse assembly	5,400	199	1493	212	2131	500	450	Room A

smartIAQ GridSet



Single Pass Efficiency (Ef)

Acetaldehyde	31.5%
Acetone	52.5%
Benzene	98.6%
Dichloromethane	39.8%
Formaldehyde	55.0%
Naphthalene	98.7%
Phenol	25.9%
Tetrachloroethylene	97.7%
Toluene	98.5%
Xylene, total	98.1%
PM2.5	20.0%
Carbon Monoxide	0.7%
Ozone	98.5%
Ammonia	15.0%

IAQP Calculator Results

IAQP Design Check	**PASS**
Max Contaminant Ratio	0.62
Mixtures Test	**PASS**
Upper Respiratory	0.19
Eye Irritant	0.80
Central Nervous System	0.02

Design Compounds	Design Limit ($\mu g/m^3$)	O. A. Concen.* ($\mu g/m^3$)	Gen. Rate ($\mu g/h$)	Cbz Max ($\mu g/m^3$)	Cbz/DL Ratio	Exposure Pass/Fail	Cognizant Authority	Selected City
Acetaldehyde	140	1.1	5,426	7.1	0.05	PASS	OEHHA CREL	Atlanta, GA
Acetone	120,000	0.0	12,398	12.4	0.00	PASS	AgBB LCI	Atlanta, GA
Benzene	3	0.9	69	0.5	0.17	PASS	OEHHA CREL	Atlanta, GA
Dichloromethane	400	0.0	388	0.4	0.00	PASS	OEHHA CREL	Atlanta, GA
Formaldehyde	33	1.7	19,469	20.3	0.62	PASS	CARB (2004)	Atlanta, GA
Naphthalene	9	0.1	125	0.1	0.01	PASS	OEHHA CREL	Atlanta, GA
Phenol	70	0.0	2,055	2.5	0.04	PASS	AgBB LCI	Atlanta, GA
Tetrachloroethylene	35	0.1	46	0.0	0.00	PASS	OEHHA CREL	Atlanta, GA
Toluene	420	10.6	1,263	6.6	0.02	PASS	OEHHA CREL	Atlanta, GA
Xylene, total	500	0.3	1,029	1.0	0.00	PASS	AgBB LCI	Atlanta, GA
PM2.5	9	10.4	-	3.1	0.34	PASS	40 CFR 50 (annual mean)	Atlanta, GA
Carbon Monoxide	10,310	708.4	-	704.0	0.07	PASS	40 CFR 50	Atlanta, GA
Ozone	137	94.6	-	18.2	0.13	PASS	40 CFR 50	Atlanta, GA
Ammonia	200	0.0	-	0.0	0.00	PASS	OEHHA CREL	Atlanta, GA

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A NOTE FOR CODE OFFICIALS

smartIAQ IAQP Calculator complies with ASHRAE 62.1-2025 & -2022 and earlier with the Indoor Air Quality Procedure (IAQP). smartIAQ performance is based on Standard 145.2 and Standard 52.2 as determined by independent, third party testing. This is the defined approach in the standard. Generation rates align with ASHRAE D-86925; this calculator and the society's will achieve matched compound concentrations.

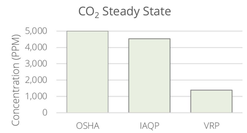
* O.A. Concentration: US EPA NAAQS or Canada ECCC

VRP Comparison (informative) cfm

Outdoor Air Under VRP with Ez	2,131
Outdoor Air Savings with IAQP	**1,631**

Financial Comparison (informative estimates)

Electricity Rate ($/kWh)	$0.12
Incremental OA Cooling Load (kWh)	14,419
Incremental OA Cooling Cost	$ 1,730
Incremental OA Heating Load (kWh)	6,686
Incremental Heating Cost	$ 802
Energy Savings via IAQP	**$ 2,533**
RTU: Equipment Savings (tons)	11.0
Estimated HVAC cost per ton:	$ 3,000
Estimated DOAS cost per cfm:	$ 20
Initial HVAC Savings (RTU)	**$ 33,000**
Initial HVAC Savings (DOAS)	**$ 32,623**
ERV (<8k hours 90.1-2022):	**Not Required**



Informative CO_2 Steady State	ppm
OSHA 8-hour limit	5,000
CO_2 Concentration IAQP	4,535
CO_2 Concentration VRP	1,387

STROUD AND COMPANY
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PROJECT NAME: MIKADO BAPTIST CHURCH FELLOWSHIP HALL

PROJECT ADDRESS: 6751 HOUSTON RD MACON, GA 31216

STAMP:

PRELIMINARY
10/22/2026

DRAWN: SC	CHECKED: PK
APPROVED: PK	ISSUE DATE: 10/22/2026

REVISIONS:

No.	ISSUE	Date

SHEET NAME:

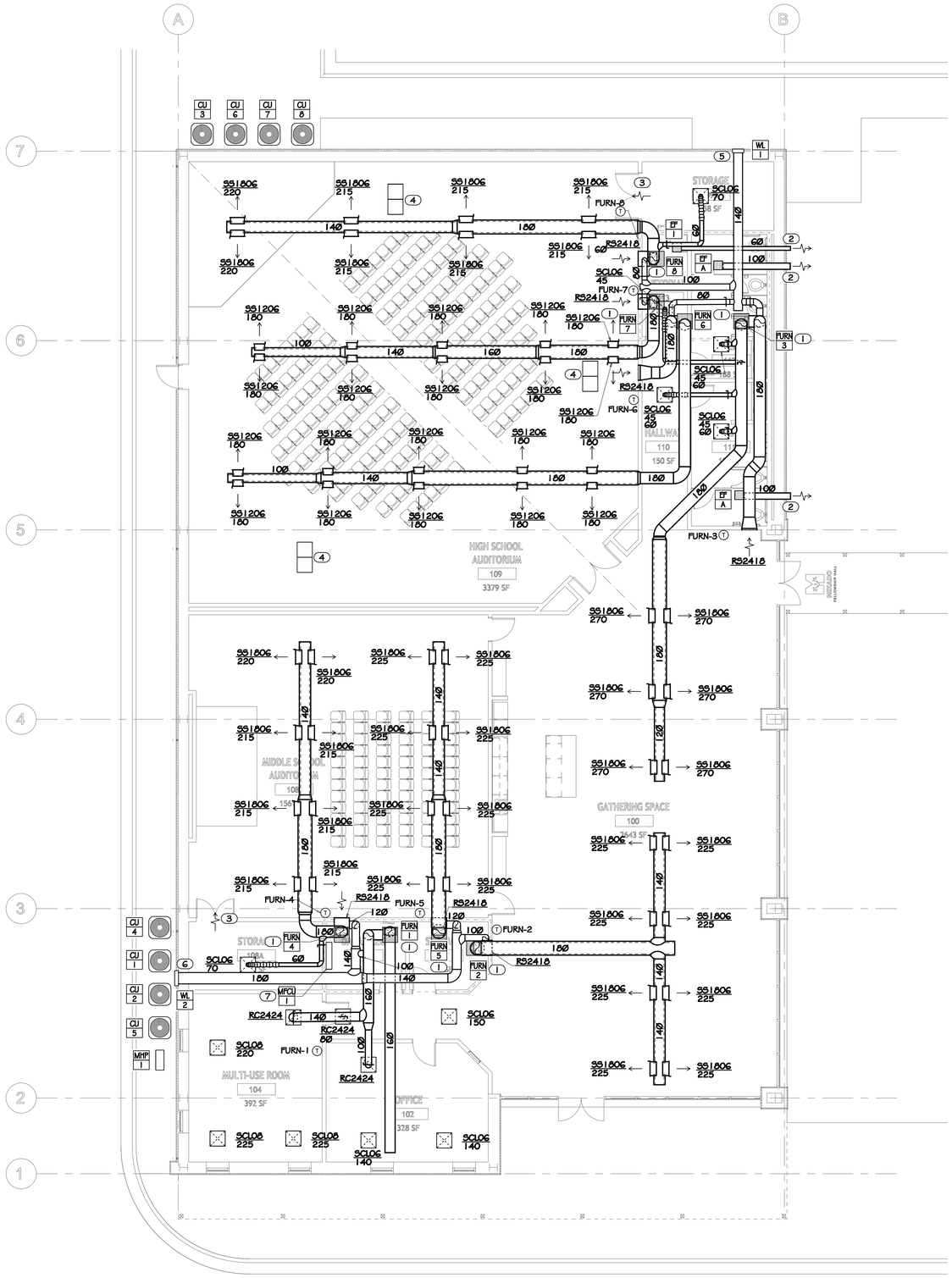
SCHEDULES

PROJECT NUMBER: 26015

SHEET NUMBER:

M0.4

NOT ISSUED FOR CONSTRUCTION



1 M2.0 FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

NOT ISSUED FOR CONSTRUCTION

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STAMP:

PRELIMINARY
10/22/2026

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SC	PK
APPROVED:	ISSUE DATE:
PK	10/22/2026

REVISIONS:

No.	ISSUE	Date

SHEET NAME:

FLOOR PLAN
MECHANICAL

PROJECT NUMBER: 26015

SHEET NUMBER:

M2.0

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	IMB	ICE MACHINE BOX
A/C	ABOVE CEILING	IE	INVERT ELEVATION
A/F	ABOVE FLOOR	IWH	INSTANTANEOUS WATER HEATER
AFF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY
B/F, B/G	BELOW FLOOR/GRADE	MBH	1000 BTU/HR
BFP	BACKFLOW PREVENTER	MS	MOP SINK
CD	CONDENSATE DRAIN	MV	MIXING VALVE
CONT	CONTINUATION	O/H	OVERHEAD
CW	COLD WATER	G	NATURAL GAS
DN	DOWN	PD	PUMPED DISCHARGE
ET	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
EWC	ELECTRIC WATER COOLER	RP	RECIRCULATION PUMP
ex.	EXISTING	S, SAN	SANITARY
FCO	FLOOR CLEANOUT	SH	SHOWER
FD	FLOOR DRAIN	SK	SINK
FHB	FREEZEPROOF HOSE BIBB	TP	TRAP PRIMER
FS	FLOOR SINK	TYP	TYPICAL
FRH	FREEZEPROOF ROOF HYDRANT	UR	URINAL
FWH	FREEZEPROOF WALL HYDRANT	V	VENT
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF
GI	GREASE INTERCEPTOR	WC	WATER CLOSET
HB	HOSE BIBB	W.C.	WATER COLUMN
HD	HUB DRAIN	WCO	WALL CLEANOUT
HW	HOT WATER	WHA	WATER HAMMER ARRESTER
HWR	HOT WATER RETURN	WMB	WASHING MACHINE BOX

LEGEND

—— – ——	COLD WATER PIPE
—— – – ——	HOT WATER PIPE
——	HOT WATER RETURN PIPE
—— S ——	SANITARY PIPE
— — — —	VENT PIPE
—— GW ——	GREASE WASTE PIPE
—— F ——	FIRE SPRINKLER PIPE
—— IW ——	INDIRECT WASTE PIPE
—— PD ——	PUMPED DISCHARGE
—— FW ——	FILTERED WATER PIPE
	PIPE UP / PIPE DOWN
	PIPE TEE FROM TOP / TEE FROM BOTTOM
	PIPE CAP / PIPE CONTINUATION
	DIRECTIONAL FLOW ARROW
	BALL VALVE / CHECK VALVE
	MIXING VALVE / PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER ASSEMBLY
	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
	WATER HAMMER ARRESTOR
	GAS COCK / GAS SOLENOID VALVE
CC	P-TRAP
	HUB DRAIN
	TRAP PRIMER
	FLOOR CLEANOUT / GRADE CLEANOUT
	VENT THROUGH ROOF
	PIPE CLEANOUT / WALL CLEANOUT

SPECIFICATIONS

GENERAL
ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF ¼" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT ½" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING, SANITARY P-TRAPS AND GREASE WASTE PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1½" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

PROFICIENT ENGINEERING WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW PROFICIENT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE.

SUBMITTALS
FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

HANGERS AND SUPPORTS
HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES 2½" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

SLEEVES AND PENETRATIONS
SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS.
PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.

SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING.

PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, 1" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

IN EXTERIOR WALLS AND BEARING PARTITIONS, WOOD STUDS ARE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF THE WIDTH OF THE STUD. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS NOT SUPPORTING LOADS OTHER THAN THE WEIGHT OF THE PARTITION.

BORED HOLES NOT GREATER THAN 40 PERCENT OF THE STUD WIDTH ARE PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE STUD WIDTH ARE PERMITTED IN NONBEARING PARTITIONS IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED THAT NOT MORE THAN TWO SUCH SUCCESIVE DOUBLED STUDS ARE SO BORED. THE EDGE OF A BORED HOLE SHALL NOT BE NEARER THAN ⅝ INCH (15.9 mm) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

SPECIFICATIONS

DOMESTIC WATER SYSTEMS AND ACCESSORIES

THE PRIMARY SPECIFICATION FOR DOMESTIC WATER PIPING SHALL BE AS FOLLOWS: WATER PIPING ABOVE FLOOR: TYPE 'L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B16.22. WATER PIPING BELOW FLOOR: TYPE 'K SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

AS AN ALTERNATE TO THE PRIMARY SPECIFICATION FOR WATER PIPING, THE FOLLOWING MAY BE USED IN WHOLE OR IN PART. THE PLUMBING CONTRACTOR SHALL LIST EACH SYSTEM AS A SEPARATE LINE ITEM AS AN ALTERNATE FOR THE OWNER'S SELECTION. USE OF ANY ALTERNATE SHALL BE AT THE SOLE DISCRETION OF THE OWNER. SERVICE PIPING BELOW GRADE: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. SHALL MEET ASTM D2846 AND ASTM F 441. HOT AND COLD WATER PIPING ABOVE FLOOR: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WITH SOLVENT WELD JOINTS WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. PIPING SHALL MEET ASTM D 2846 AND SHALL BE CERTIFIED BY THE NSF INTERNATIONAL FOR USE WITH POTABLE WATER SYSTEMS. SOLVENT CEMENTS FOR CPVC PLASTIC PIPING SHALL MEET ASTM F437, ASTM F438 AND ASTM F439. WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5. HOT AND COLD WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 100PSI AT 180°F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TFE WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL.

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180°F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4½" DIAL SIZE, 0-160PSI (TRERICE 600CB OR EQUAL).

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE TO CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYSTEM. CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE CONDITION. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

RETURN AIR PLENUMS
ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

INSULATION
INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10.
PIPE UP TO 1¼": 1" THICK INSULATION. PIPE 1½" OR LARGER: 1½" THICK INSULATION

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1¼" THICK. PIPING 1½" AND OVER: 1" THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-IN/HR x SQFT x °F.

PROTECTION OF PIPING
PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWO PIPE SIZES LARGER THAN THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC 305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTLING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERNCO XJ SERIES OR EQUAL).

TANK TYPE WATER HEATERS
WATER HEATERS SHALL BE U.L. LISTED AND SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF U.S. DEPT. OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1.

WATER HEATERS SHALL HAVE 150PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE ROD AND HIGH TEMPERATURE CUTOFF SWITCH. WATER HEATERS SHALL BE THERMOSTATICALLY CONTROLLED AND SET TO 120° UNLESS OTHERWISE NOTED. WATER HEATERS SHALL BE INSTALLED ON SUSPENDED PLATFORM, STEEL STAND OR CONCRETE PAD, AS INDICATED ON DRAWINGS.

WATER HEATERS SHALL HAVE A MINIMUM 3 YEAR LIMITED WARRANTY.

WATER HEATERS SHALL BE INSTALLED LEVEL AND PLUMB. FIELD COORDINATE EXACT WATER HEATER LOCATION. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES, AND INSTALL SUCH THAT CONTROLS AND DEVICES ARE ACCESSIBLE FOR SERVICING.

INSTALL SHUTOFF VALVES IN COLD WATER INLET AND HOT WATER OUTLET. INSTALL THERMOMETER ON HOT WATER OUTLET. WATER HEATER SHALL HAVE ASME RATED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE IN TOP PORTION OF TANK (FACTORY OR FIELD INSTALLED). PIPE RELIEF VALVE OUTLET TO FLOOR DRAIN, MOP SINK, INDIRECT WASTE RECEPTOR OR TO EXTERIOR. MAINTAIN CONTINUOUS DOWNWARD PITCH TOWARD DISCHARGE LOCATION, AND PROVIDE AIR GAP AT DISCHARGE LOCATION. WHERE WATER HEATER DRAIN PAN IS INDICATED ON PLANS, ROUTE DRAIN TO SAME LOCATION AS RELIEF VALVE AND DISCHARGE WITH AIR GAP.

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES
SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321.

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 10 FOOT OF WATER HEAD PRESSURE APPLIED.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED (¼"/FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.

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ELECTRIC WATER HEATER SCHEDULE

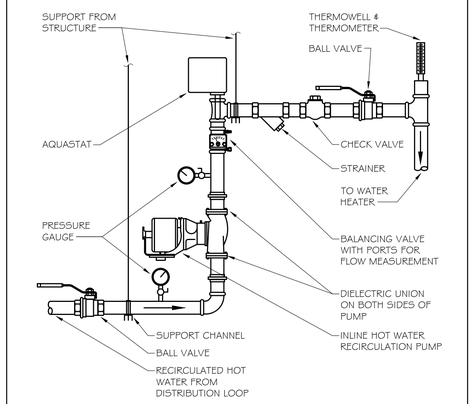
MARK	TANK CAPACITY	RECOVERY	SETPOINT	ELECTRICAL	BASIS	TYPE
WH-1	30 GAL	23 GPH @ 80° RISE	120°	4.5 KW	A.O. SMITH DEN-30	TALL
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.						

RECIRCULATION PUMP SCHEDULE

MARK	ELECTRICAL	CAPACITY	NOTES	BASIS
RP-1	120v	4.0 GPM @ 10' HEAD	PROVIDE 24-HOUR TIMER. PROVIDE ADJUSTABLE AQUASTAT (HONEYWELL L6006 OR EQUAL).	ARMSTRONG ASTRO SERIES
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED PUMP. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.				
CONTRACTOR SHALL INSTALL BALANCING VALVE AND SHALL ADJUST AS NEEDED TO ENSURE PUMP FLOW DOES NOT EXCEED 5 GPM				

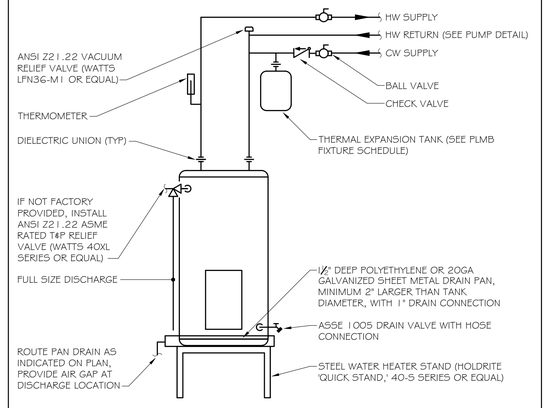
HOT WATER RECIRCULATION PUMP

NO SCALE



ELECTRIC WATER HEATER W/RECIRCULATION

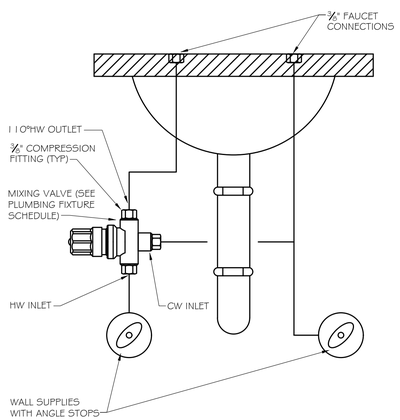
NO SCALE



PROVIDE WORKING SPACE IN FRONT OF WATER HEATER AT LEAST 30 INCHES WIDE AND 30 INCHES DEEP

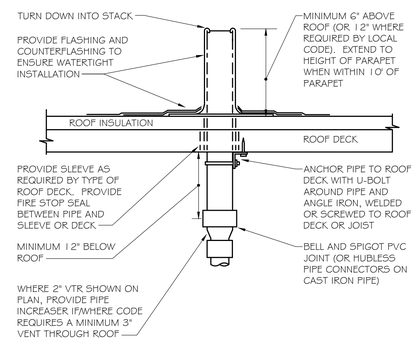
POINT OF USE MIXING VALVE

NO SCALE



VENT THROUGH ROOF (VTR)

NO SCALE



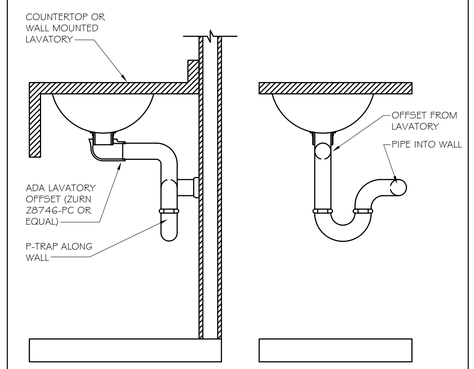
IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE PROPER INSTALLATION METHODS TO ENSURE ROOF PENETRATION IS WATERTIGHT. LOCATE VTR MINIMUM FIFTEEN FEET (15'-0") HORIZONTAL FROM ANY FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT		WATER CONN.		SPECIFICATION
					CW	HW	CW	HW	
L-1	LAVATORY (ADA) - UNDERMOUNT	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	UNDERMOUNT LAVATORY (AMERICAN STANDARD "OVALYN," 0496.221) AND 0.5GPM SINGLE HANDLE FAUCET WITH POLISHED CHROME FINISH (ZURN Z81000-XL-3M). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN B746-PC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH 12" LONG X 3/8" FLEX SUPPLIES (MCGUIRE M165). WHERE NOT CONCEALED BY COUNTER SHROUD, INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER HOT WATER TO 110 DEGREES (LEONARD 170-LF). LEAD FREE, ASSE 1070.
WC-1	WATER CLOSET - FLOOR MOUNT W/FLUSH VALVE	4"	3"	2"	1-1/4"	---	1"	---	FLOOR MOUNTED, FLUSH VALVE WATER CLOSET (AMERICAN STANDARD "MADERA FLOWISE," 2234.001), 1.28 GPF, WHITE VITREOUS CHINA. TOP OF RIM AT 15" AFF. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100). PROVIDE EXPOSED WATER CLOSET FLUSHOMETER, CHROME PLATED, 1.28 GPF (SLOAN 111-128).
WC-2	WATER CLOSET (ADA) - FLOOR MOUNT W/FLUSH VALVE	4"	3"	2"	1-1/4"	---	1"	---	FLOOR MOUNTED, ADA FLUSH VALVE WATER CLOSET (AMERICAN STANDARD "MADERA FLOWISE," 3043.001), 1.28 GPF, WHITE VITREOUS CHINA. TOP OF RIM AT 16 1/2" AFF. PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100). PROVIDE EXPOSED WATER CLOSET FLUSHOMETER, CHROME PLATED, 1.28 GPF (SLOAN 111-128). FLUSH CONTROL MUST BE LOCATED ON OPEN SIDE OF WATER CLOSET.
UR-1	URINAL - HIGH EFFICIENCY, WALL MOUNTED W/FLUSH VALVE	2"	2"	2"	1"	---	3/4"	---	WALL MOUNTED, FLUSH VALVE URINAL (AMERICAN STANDARD "WASHBROOK," 6590.001), 0.5 GPF, WHITE VITREOUS CHINA. HIGH EFFICIENCY 'WATERSENSE' LISTED. PROVIDE ZURN 1222 SUPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE CHROME PLATED URINAL FLUSHOMETER, 0.5 GPF (AMERICAN STANDARD "FLOWISE" 6045.051.002).
SK-1	STAINLESS STEEL SINK, DROP-IN, SINGLE BOWL (ADA)	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEEL SINGLE BOWL DROP-IN SINK (ELKAY LRAD2521), 1 HOLE. BOWL DIMENSIONS: 21" L, 15.75" W, 6.5" D. ADA COMPLIANT 1.5 GPM FAUCET WITH PULL-OUT SPRAY (ELKAY LK5000), SINGLE HOLE MOUNTING (LESS ESCHUTCHEON PLATE). MCGUIRE CHROME PLATED P-TRAP W/C.O., CHROME PLATED BRASS ANGLE SUPPLY STOPS, 12" LONG X 3/8" FLEX SUPPLIES. PROVIDE BASKET STRAINER (ZURN Z8741-SS).
MS-1	MOP SINK	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	24"X24" FLOOR BASIN (FIAT MSB-2424) AND SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT (830-AA). PROVIDE HOSE AND BRACKET (832-AA), MOP HANGER (889-CC), STAINLESS STEEL BUMPERGUARD (E-88-AA) AND STAINLESS STEEL WALL GUARD (MSG2424).
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"	---	---	---	---	GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 5" ROUND NICKEL BRONZE REMOVABLE STRAINER. PROVIDE SQUARE REMOVABLE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).
FS-1	FLOOR SINK	3"	3"	2"	---	---	---	---	CAST IRON FLOOR SINK WITH ACID RESISTANT COATED INTERIOR AND BOTTOM DOME STRAINER (J.R. SMITH 3140), 6" DEEP. COORDINATE 1/2 OR 3/4 GRATE WITH INDIRECT WASTE PIPING.
FCO	FLOOR CLEANOUT	see plan	see plan	---	---	---	---	---	FLOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMITH 4031). CLEANOUT SIZE SHALL MATCH LINE SIZE.
WSB-1	WALL SUPPLY BOX	---	---	---	see plan	see plan	see plan	see plan	WALL SUPPLY BOX (OATEY #385xx/386xx SERIES), 6"X6". LOW LEAD, 1/4 TURN BRASS VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTOR. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 391xx SERIES.
BFP-1	BACKFLOW PREVENTER (BEVERAGE EQUIPMENT)	---	---	---	1/2"	---	3/8"	---	BACKFLOW PREVENTER WITH DUAL CHECK VALVES, ATMOSPHERIC VENT AND INTEGRAL STRAINER, LEAD FREE. FOR 3/8" EQUIPMENT CONNECTIONS, PROVIDE WATTS 9D-3 (ASSE 1022). FOR 1/2" OR GREATER CONNECTION, PROVIDE WATTS LF009-QT (ASSE 1013).
WHA-X	WATER HAMMER ARRESTOR	---	---	---	see plan	---	see plan	---	WATER HAMMER ARRESTOR, ASSE 1010 (J.R. SMITH SERIES 5005-5050), 'X' IN 'WHA-X' REFERS TO PDI SIZE INDICATED ON DRAWINGS.
ET-1	POTABLE WATER EXPANSION TANK	---	---	---	3/4"	---	3/4"	---	LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-5). 2.1 GALLONS TOTAL VOLUME, 0.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).
FWH-1	FREEZEPROOF WALL HYDRANT IN BOX	---	---	---	3/4"	---	3/4"	---	CONCEALED 3/4" HOSE CONNECTION IN WALL BOX, WITH INTEGRAL AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER (J.R. SMITH 5509QT). LENGTH TO SUIT WALL THICKNESS. PROVIDED WITH QUARTER TURN, SQUARE FITTING, T-HANDLE KEY.
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY FIXTURE SPECIFICATIONS WITH ARCHITECT/OWNER									

ADA LAVATORY OFFSET

NO SCALE



TRAP SEALER

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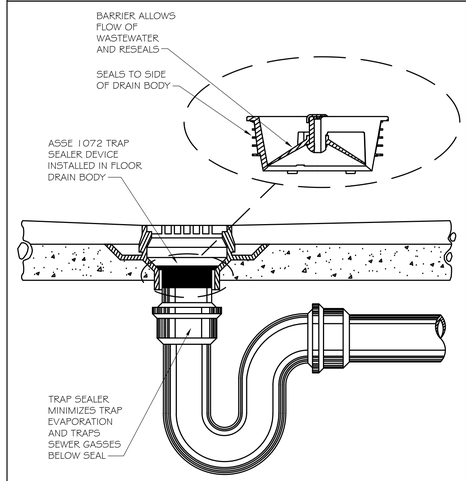

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SHEET NAME: SCHEDULES & DETAILS

PROJECT NUMBER: 26015

SHEET NUMBER: P0.2

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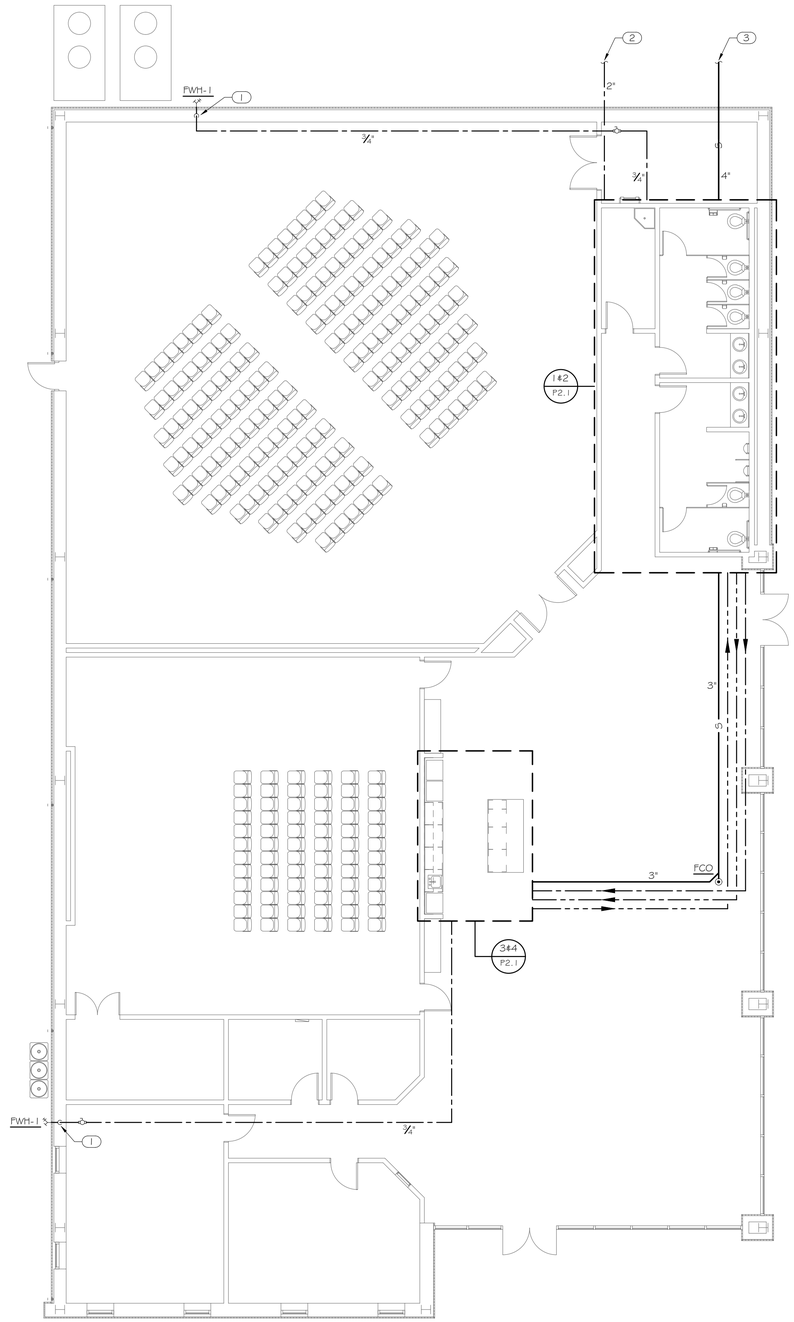
KEYNOTES

1. ¾" CW DN
2. 2" DOMESTIC WATER SUPPLY B/G, SEE CIVIL DWG FOR CONTINUATION AND BACKFLOW PREVENTER
3. 4" SANITARY SEWER B/G, SEE CIVIL DWG FOR CONT



1 / P2.0 OVERALL FLOOR PLAN
1/8" = 1'-0"

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FLOOR PLANS

PROJECT NUMBER: 26015

SHEET NUMBER:

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KEYNOTES

1. ½" CW & ¾" HW DN
2. ½" CW & ¾" HW DN
3. ¾" HW DN
4. 2" CW DN
5. ¾" CW, ¾"HW & ¾" HWR TO STAND MOUNTED WATER HEATER, SEE DETAIL
6. ¾" HWR TO RECIRCULATION PUMP, SEE DETAIL
7. ½" CW DN TO WSB-1 FOR ICE MAKER
8. ½" CW DN TO WSB-1 FOR REFRIGERATOR
9. ½" CW DN, PROVIDE CONNECTION FOR EACH COFFEE MAKER WITH BACKFLOW PREVENTER BFP-1
10. 3" FLOOR SINK FS-1. DISCHARGE ICE MAKER DRAIN WITH AIR GAP
11. 2" DOMESTIC WATER SERVICE UP WITH SHUTOFF VALVE & PRESSURE GAUGE. PROVIDE PRESSURE REDUCING VALVE IF INCOMING PRESSURE EXCEEDS 80PSI.

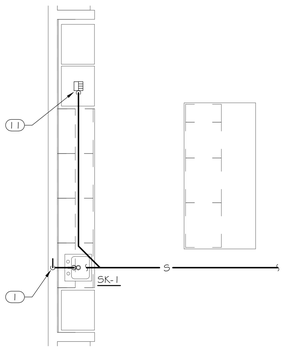
GENERAL NOTES

A. FOR ALL FIXTURES AND APPLIANCES OTHER THAN LAVATORIES ACCESSIBLE TO THE PUBLIC, HOT WATER PIPING INSTALLATION SHALL COMPLY WITH IECC SECTION / TABLE C404.5.1. MAXIMUM PIPING LENGTH.

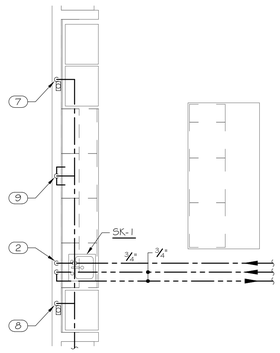
½" HOT WATER SUPPLY TO FAUCET IS NO FURTHER THAN 43'-0" FROM RECIRCULATED MAIN.

¾" HOT WATER SUPPLY TO FAUCET IS NO FURTHER THAN 21'-0" FROM RECIRCULATED MAIN.

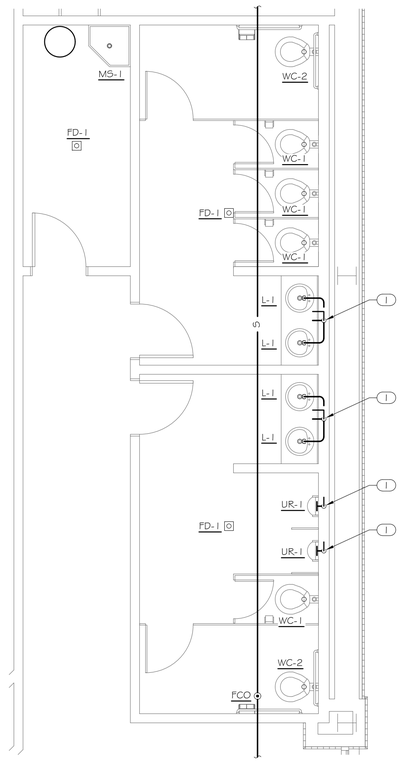
B. FOR PUBLIC LAVATORY FAUCETS ACCESSIBLE TO THE PUBLIC, ENSURE THAT THE HOT WATER LOOP EXTENDS SUCH THAT THE LAVATORY HOT WATER SUPPLY IS NO MORE THAN 2'-0" FROM THE CIRCULATED LOOP IN ACCORDANCE WITH IECC SECTION / TABLE C404.5.1.



4 P2.1 ENLARGED FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"



3 P2.1 ENLARGED FLOOR PLAN - WATER
1/4" = 1'-0"



2 P2.1 ENLARGED FLOOR PLAN - WASTE & VENT
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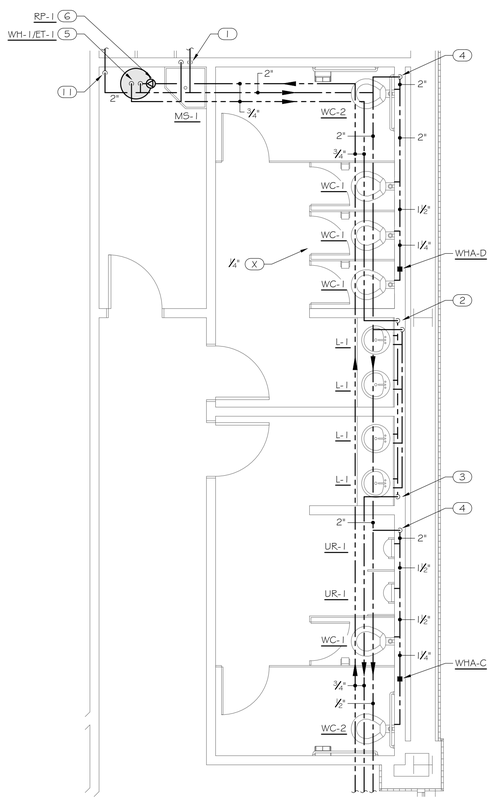

1 P2.1 ENLARGED FLOOR PLAN - WATER
1/4" = 1'-0"

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