GARDEN SQUARE

2400 BULL STREET
SAVANNAH, GEORGIA 31401

PIN # 2007401019

100% CONSTRUCTION DOCUMENTS

2-13-2025

PROJECT TEAM

OWNER:	GARDEN SQUARE JAKE GRIER 2400 BULL STREET SAVANNAH, GEORGIA 31401 (E) JAKEBALDUSGRIER@GMAIL.COM
ARCHITECT:	LYNCH ASSOCIATES ARCHITECTS, PC ANDREW LYNCH, AIA 200 EAST 31ST STREET SAVANNAH, GEORGIA 31401 (P) 912.349.5116 (E) ALYNCH@LYNCHARCH.COM
MECHANICAL/ ELECTRICAL/ PLUMBING ENGINEER:	METHOD ENGINEERING GROUP CHRIS SHAFFER 2 EAST BRYAN STREET, SUITE 1500C SAVANNAH, GEORGIA 31401 (P) 912.623.4814O (E) CSHAFFER@METHODEG.COM

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Revisions

No	Date	Description

STATE OF GEORGIA
REGISTERED ARCHITECT

COVER PAGE

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

G000

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SHEET INDEX

ORIGINAL PERMIT ISSUE DATE: 02/12/2025	
SHEET #	SHEET NAME

GENERAL

LIFE SAFETY

ARCHITECTURE

FIRE PROTECTION

PLUMBING

MECHANICAL

ELECTRICAL

NTS

A01 SHEET INDEX

ALUMINUM

BRICK (CUT)

CONCRETE

CONCRETE MASONRY UNITS

EARTH

EXISTING MATERIAL

GRAVEL

GROUT

GYPSUM BOARD

RIGID, BATT, OR SPRAY FOAM INSULATION

MEDIUM-DENSITY FIBERBOARD OR PARTICLE BOARD

WATERPROOFING

PLYWOOD

PLASTER OR STUCCO

STEEL

SAND

WOOD BLOCKING

WOOD SHIM

WOOD - FINISHED

GLAZING

NTS

L12 GRAPHIC MATERIAL LEGEND

ABV	ABOVE
A.F.F.	ABOVE FINISH FLOOR
ACOUS	ACOUSTICAL
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
A.B.	ANCHOR BOLT
L	ANGLE
@	AT
APPROX	APPROXIMATE
ARCH	ARCHITECTURE (URAL)
A.D.	AREA DRAIN
A.C.	ASPHALT CONCRETE
ASPH	ASPHALT
BM	BEAM
BLW	BELOW
B.G.	BELOW GRADE
B.M.	BENCH MARK
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
B.O.B.	BOTTOM OF BEAM
BOT	BOTTOM
BLDG	BUILDING
B.U.R.	BUILT-UP ROOFING
CAB	CABINET
CFMS	COLD FORMED METAL STUD
CRPT	CARPET
CSMT	CASEMENT
CLG	CEILING
CTR	CENTER
CL	CENTER LINE
CEM	CEMENT
CLR	CLEAR
CLO	CLOSET
C.O.	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS (ATION)
CONTR	CONTRACTOR
C.J.	CONTROL JOINT
CORR	CORRUGATED
C.S.	COUNTERSINK
CFT	CUBIC FOOT
CYD	CUBIC YARD
C.OPNG.	CASED OPENING
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DBL	DOUBLE
DN	DOWN
D.S.	DOWN SPOUT
DWR	DRAWER
DWG	DRAWING
D	DRAIN
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC (AL)
ELEV	ELEVATOR
ENCL	ENCLOSE (URE)
E.N.	END NAILING
ENG	ENGINEER (ING)
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
E.J.	EXPANSION JOINT
EXT	EXTERIOR
F.O.C.	FACE OF CONCRETE (CURB)
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUB
FGLS	FIBERGLASS
F.N.	FIELD NAILING
FIN	FINISH
F.G.	FINISH GRADE
F.F.	FINISH FLOOR
F.F.E.	FINISH FLOOR ELEVATION
F.A.	FIRE ALARM
F.E.	FIRE EXTINGUISHER
F.E.B.	FIRE EXTINGUISHER ON BRACKET
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FLASH	FLASHING
FLR	FLOOR (ING)
FLCO	FLOOR CLEANOUT
F.D.	FLOOR DRAIN
FLOUR	FLUORESCENT
FT	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
GALV	GALVANIZED
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GLS	GLASS
GLS BLK	GLASS BLOCK
GLB	GLUE LAM BEAM
G.B.	GRAB BAR
GR	GRADE, GRADING
GND	GROUND
GYP BD	GYPSUM BOARD
HC	HANDICAPPED
HDW	HARDWARE
HDR	HEADER
HVAC	HEATING/VENTILATION/ AIR CONDITIONING
H.D.	HEAVY DUTY
HGT	HEIGHT
H.C.	HOLLOW CORE
H.M. or HM	HOLLOW METAL
HORIZ	HORIZONTAL
H.B.	HOSE BIBB
HR	HOUR
INCL	INCLUDE
INFO	INFORMATION
I.D.	INSIDE DIAMETER
INSUL	INSULATE, INSULATION
INT	INTERIOR
INSTALL	INSTALLATION
JST	JOIST
J	JOINT
KO	KNOCKOUT
KPLT	KICKPLATE
L.B.	LAG BOLT
LAM	LAMINATE
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
LVR	LOUVER
MATL	MATERIAL
MGMT	MANAGEMENT
MFG	MANUFACTURER
MAS	MASONRY
M.O.	MASONRY OPENING
MAT	MATERIAL
MH	MANHOLE
MAX	MAXIMUM
MECH	MECHANICAL
MBR	MEMBER
MEMB	MEMBRANE
MTL	METAL
MTR	METER
MIN	MINIMUM
MISC	MISCELLANEOUS
(N)	NEW
NOM	NOMINAL
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OPAQ	OPAQUE
OPNG	OPENING
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
O/HANG	OVERHANG
PR	PAIR
PKG	PARKING
d	PENNY
P.C.F.	PER CUBIC FOOT
P.L.F.	PER LINEAL FOOT
P.S.F.	PER SQUARE FOOT
P.S.I.	PER SQUARE INCH
P	PLATE
PL	PLATE LINE
PGLS	PLATE GLASS
PLYWD	PLYWOOD
PP	POWER POLE
P.V.C.	POLYVINYL CHLORIDE
P.C.C.	PRE-CAST CONCRETE
PEMB	PRE-ENGINEERED METAL BUILDING
PFAB	PREFABRICATED
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL	PROPERTY LINE
Q.T.	QUARRY TILE
RAD	RADIUS
REDWD	REDWOOD
REF or RE:	REFERENCE
REINF	REINFORCE (D) (ING)
RA	RETURN AIR
REV	REVISION
REQD	REQUIRED (ING)
R.O.W.	RIGHT OF WAY
R	RISER
RF	ROOF
RFG	ROOFING
RD	ROOF DRAIN
RFH	ROOF HATCH
RM	ROOM
R.O.	ROUGH OPENING
SCH	SCHEDULE
SEC	SECTION
SHTG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SL	SKYLIGHT
SC	SOLID CORE
S	SOUTH
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
SD	STORM DRAIN
STRUCT	STRUCTURAL
SUS	SUSPENDED
S.C.	SUBCONTRACTOR
SYS	SYSTEM
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
T & G	TONGUE AND GROOVE
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB
T.O.L.	TOP OF LEDGER
T.O.P.	TOP OF PARAPET
T.O.P.	TOP OF PAVEMENT
T.O.PL.	TOP OF PLATE
T.O.S.	TOP OF SLAB
T.O.T.	TOP OF TRUSS
T.O.W.	TOP OF WALL
T	TREAD
TYP	TYPICAL
U.G.	UNDERGROUND
UNF	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
U	UTILITIES
V.B.	VAPOR BARRIER
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
VIN.	VINYL
V.B.	VINYL BASE
W.H.	WALL HUNG
W TO W	WALL TO WALL
W/C	WATER CLOSET
W/H	WATER HEATER
WP	WATERPROOF
W.R.	WATER RESISTANT
WT	WEIGHT
W.W.M.	WELDED WIRE MESH
W	WEST
WDW	WINDOW
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WD	WOOD
W.B.	WOOD BASE
W.I.	WROUGHT IRON

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A12 STANDARD LIST OF ABBREVIATIONS

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE **2018** *INTERNATIONAL BUILDING CODE*; **2018** *LIFE SAFETY CODE, NFPA 10*; **CITY OF SAVANNAH**; **CHATHAM COUNTY HEALTH DEPARTMENT**; **CITY OF SAVANNAH** FIRE DEPARTMENT REGULATIONS; UTILITY COMPANY REQUIREMENTS; ADA STANDARDS FOR ACCESSIBLE DESIGN; AND THE BEST TRADE PRACTICES.
2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE **CITY OF SAVANNAH** IF REQUIRED.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT.
4. ALL DIMENSIONS TO FACE OF STUD/STRUCTURE FOR INTERIOR AND EXTERIOR WALLS PARTITIONS UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR DETAILS. ONLY WRITTEN DIMENSIONS ARE TO BE USED.
6. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
7. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
9. EACH CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER CONTRACTORS (PLUMBING, ELECTRICAL, MECHANICAL, FIRE PROTECTION).
10. PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.
11. EACH CONTRACTOR SHALL DO CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB IN EACH PRIME CONTRACT.
12. ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE **CITY OF SAVANNAH** AND THE **2018** INTERNATIONAL BUILDING CODE.
13. EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND SUPPLIERS.
14. DUCTS, PIPES AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE SPACES NOT EXCEEDING 1/2 INCH PACKED WITH MINERAL WOOL AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. AGGREGATE AREA OF SUCH OPENINGS SHALL NOT EXCEED 25 SQUARE INCHES IN ANY 100 SQ. FT. OF WALL OR FLOOR AREA UNLESS PROTECTED BY RATED SELF-CLOSING DEVICES.
15. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ETCETERA, SHALL BE FIRESTOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) NON-COMBUSTIBLE MATERIAL THAT CAN BE SHAPED, FITTED AND PERMANENTLY SECURED IN POSITION. FIRE SEAL SHALL MATCH RATING OF WALL.
16. CONDUITS IN FIRE-RELATED PARTITIONS SHALL NOT EXCEED 3/4 INCH DIAMETER. OUTLETS IN SUCH PARTITIONS SHALL BE BACKED UP WITH APPROVED MATERIALS MEETING U.L. REQUIREMENTS.
17. PENETRATION OF OPENINGS IN WALLS, PARTITIONS OR FLOORS, FOR PIPE SLEEVES, FIRE EXTINGUISHERS, TOILET ACCESSORIES, ELECTRIC DEVICES, ETCETERA, SHALL BE PLACED, SEALED, LINED OR OTHERWISE ISOLATED TO MAINTAIN THE REQUIRED S.T.C. RATING.
18. ALL WOOD BLOCKING AND MISCELLANEOUS FRAMING TO BE FIRE RETARDANT FOR TYPE 3 CONSTRUCTION.
19. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWN SPOUT TERMINATIONS NOT TIED TO STORM DRAINS.

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L18 GENERAL PROJECT NOTES

COLUMN REFERENCE GRID

SECTION CUT

BUILDING ELEVATION KEY

DETAIL KEY

DETAIL SECTION

INTERIOR ELEVATIONS

WALL TYPE
P = PARTITION
F = FURRING
S = SHAFT/CHASE

NEW CONSTRUCTION

EXISTING CONSTRUCTION TO REMAIN

MATERIAL TO BE DEMOLISHED

EXISTING WALL TO BE DEMOLISHED

BREAK LINE

CENTERLINE

LOT LINE OR PROPERTY LINE

FEATURE ABOVE OR BEHIND

SHEET NUMBERING

SHEET NUMBER

TRADE:
A = ARCHITECTURAL
S = STRUCTURAL
M = MECHANICAL
P = PLUMBING
F = FIRE PROTECTION
E = ELECTRICAL

REVISION KEY

NORTH ARROW

ROOM NAME / ROOM #

DOOR (NUMBER)

WINDOW (LETTER)

STOREFRONT

LOUVER

MATERIAL TYPE
CEILING HEIGHT

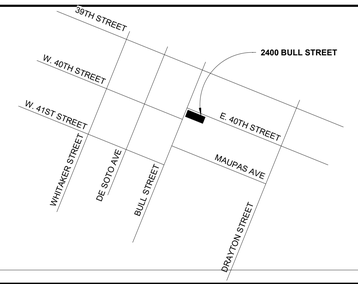
DIMENSIONS

ELEVATION POINT

ROOF PITCH

NTS

D18 GRAPHIC SYMBOLS



NTS

A18 VICINITY MAP

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No	Date	Description

STATE OF GEORGIA
REGISTERED ARCHITECT

SHEET INDEX & GENERAL NOTES

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

G001

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A. PROJECT INFORMATION

Name of Project: GARDEN SQUARE

Address: 2400 BULL STREET ZIP Code: 31401

Proposed Use: RESTAURANT

Owner/Authorized Agent: JAKE GRIER

Phone: Email: JAKEBALDUSGRIER@GMAIL.COM

Owned by: ☐ City/County ■ Private ☐ State

Code Enforcement Jurisdiction ■ City SAVANNAH ☐ County ☐ State

B. PROJECT SUMMARY

Building description: EXISTING ONE STORY BUILDING WITH 6 INDIVIDUAL TENATE SPACES. TYPE III-B CONSTRUCTION. SPRINKLED

Scope of work details:

THIS PROJECT INCLUDES NEW TENANT IMPROVEMENT INTERIOR CONSTRUCTION. WORK INCLUDES NEW PARTITION WALLS, CEILINGS, ELECTRICAL, PLUMBING AND HVAC. ALL WORK IS TO BE PERFORMED IN A SINGLE PHASE.

Does this project have air rights, easements, an assumed or deeded property line, no build easements or other circumstances similar to the aforementioned?

☐ Yes ■ No If yes, please provide a copy of the official documents.

Renovation projects only: If you are using Chapter 34 (3412-Existing buildings) in the NCSBC or NFPA 101 as an alternative for Code compliance. Notes for Plans Examiner and Inspectors:

Alternative Means of Compliance/Engineering Judgment:

☐ Industrial equipment with declaration document attached.

☐ RTAP (Revision to approved Plans)

C. DESIGN PROFESSIONAL INFORMATION

LEAD DESIGN PROFESSIONAL: GLORY RITTMANN

DESIGNER	FIRM/PHONE	NAME/EMAIL	LICENSE #
Architectural	Lynch Architects & Associates 912.349.5116	Andrew Lynch alynch@lyncharch.com	#012324
Civil	N/A		
Electrical	METHOD ENGINEERING GROUP 912.963.1611	CHRIS SHAFFER, PE CSHAFFER@METHODEG.COM	PE041545
Fire Alarm	N/A		
Plumbing	METHOD ENGINEERING GROUP 912.963.1611	ANDREW MCKEEVER AMCKEEVER@METHODEG.COM	40556
Mechanical	METHOD ENGINEERING GROUP 912.963.1611	ANDREW MCKEEVER AMCKEEVER@METHODEG.COM	40556
Sprinkler-Standpipe	N/A		
Structural	N/A		
Retaining Walls>5' High	N/A		
Landscaping	N/A		

D. TYPE OF WORK BEING PERFORMED

☐ New Construction: (A project from the site work through the completion of work required for tenant occupancy) This includes Shell buildings.)

☐ Addition: (An Existing Building that is adding heated or unheated space. This could be in addition to the footprint or a vertical expansion)

■ Upfit: (First Time Interior Completion) (The first time interior completion of a virgin (never occupied) shell space in a newly constructed building.)

☐ Alteration/Renovation: (Previously Occupied Space) This includes Change of Use.

E. CODE INFORMATION

Building Code:

- ■ 2018 International Building Code (IBC)
- ■ 2018 Life Safety Code (LSC) - NFPA 101
- ■ 2018 International Mechanical Code
- ■ 2018 International Plumbing Code
- ■ 2020 National Electrical Code
- ■ 2015 International Energy Conservation Code
- ■ 2018 International Fire Code
- ■ 2010 ADA Standards for Accessible Design
- ■ 2018 NFPA 13 SPRINKLER SYSTEMS
- ■ 2018 NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS

New Building: ☐ New Building ■ Shell Building

F. REHAB CODE

☐ 2012 International Existing Building Code Information:

Check all that apply: ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction ☐ Change of use ☐ Addition

☐ Last known legal Occupancy use Historic Property: ☐ No ☐ Yes

Original Building Construction Date: Date of Preliminary Meeting:

Justification for using the REHAB code:

Reviewers Notes for Field Inspector:

G. BASIC BUILDING

■ NO CHANGE

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☐ II-B ■ III-B ☐ V-B

Sprinklers: ☐ No ■ Yes ☐ Partial ■ NFPA 13-07 ☐ NFPA 13R-07 ☐ NFPA 13D-07

Standpipes: ☐ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ■ No ☐ Yes Localized Flood Hazard Area: (Appendix G) ■ No ☐ Yes

Building Height: 25'- 4" Stories: 1 STORIES

Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL (SQ. FT.)
FIRST FLOOR	2,198 SF	N/A	2,198 SF

H. ALLOWABLE AREA/OCCUPANCY CLASSIFICATION

OCCUPANCY:

Assembly (IBC 303) ☐ A-1 ■ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business (IBC 304) ☐ B
Educational (IBC 305) ☐ E
Factory (IBC 306) ☐ F-1 Moderate ☐ F-2 Low
Hazardous (IBC 307) ☐ H-1 Detonate ☐ H-2 Deflag. ☐ H-3 Combust. ☐ H-4 Health ☐ H-5 HPM
Institutional (IBC 308) ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 I-3 Condition ☐ L ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile (IBC 309) ☐ M
Residential (IBC 310) ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage (IBC 311) ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Misc. (IBC 312) ☐ U

ACCESSORY OCCUPANCY: (<10% per IBC section 508, if applicable)

Assembly (IBC 303) ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business (IBC 304) ☐ B
Educational (IBC 305) ☐ E
Factory (IBC 306) ☐ F-1 Moderate ☐ F-2 Low
Hazardous (IBC 307) ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional (IBC 308) ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 I-3 Condition ☐ L ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile (IBC 309) ☐ M
Residential (IBC 310) ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage (IBC 311) ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous (IBC 312) ☐ U

INCIDENTAL USES:

☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15psi and 10 horsepower
☐ Refrigerant machine room
☐ Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops,not classified as Group H,located in a group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies.
☐ Rooms containing fire pumps
☐ Rooms containing life-safety generator
☐ Rooms containing primary transformer
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

SPECIAL USES:

☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428

Special Provisions: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8

Mixed Occupancy: ■ No ☐ Yes Separation: Hr. Exception:

☐ Accessory Occupancy (508.2)

☐ Non-Separated Mixed Occupancy (508.3.2)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Mixed Occupancy (508.3.3) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} < 1$$

Story No.	Description and Use	(A) Bldg Area per Story (Actual)	(B) Table 506.2 Area	(C) 506.3.3 Amount of Increase	(D) Area for Sprinkler Increase	(E) Allowable Area or Unlimited	(F) Maximum Building Area
1st Floor	A2	2,198 SF	38,000 SF	N/A	N/A	UL	38,000 SF

I. ALLOWABLE HEIGHT

■ NO CHANGE

	Allowable (Table 504.3, 504.4)	Shown on Plans
Type of Construction	Type III-B, Sprinklered	Type III-B, Sprinklered
Building Height in Feet	75'	25'-4"
Building Height in Stories	3	1

J. FIRE PROTECTION REQUIREMENTS

(Table 601,602)

Life Safety Plan Sheet #s, if Provided LS100 & 101

Building Element	Fire Separation Distance (Feet)	Rating Required	Rating Provided	Detail # and Sheet #	Design # for Rated Assembly
Structural frame, including columns,girders and trusses		0 HR.	0 HR.		
Bearing walls					
Exterior		2 HR.	2 HR. (EXISTING)	A01/LS001	U905
North					
East					
West					
South					
Interior		0 HR.	0 HR.		
Non-bearing walls and partitions					
Exterior		1 HR.	2 HR. (EXISTING)	A01/LS001	U905
North					
East					
West					
South					
Interior		0 HR.	0 HR.		
Floor construction including support beams and joists		0 HR.	0 HR.		
Roof construction including support beams and joists		0 HR.	0 HR.		
Shafts - Exits IBC (713.4)		0 HR.	0 HR.		
Shafts - Other		N/A	N/A		
Corridor Separation		1 HR.	1 HR. (EXISTING)	A13/LS001	U465
Occupancy Separation IBC (508.4)		0 HR.	1 HR.	A13/LS001	U465
Party/Fire Wall Separation					
Smoke Barrier Separation					
Tenant Separation IBC (708.1)		0 HR.	0 HR.		
Incidental Use Separation					

* Indicated section number permitting reduction N.C. = Non Combustible N.R. = Not Required
** G-4 hours or N/A = Not Applicable (Define reasons in the project summary)
*** Indicate if using 7601 Note B exception.
****Fire separation rating written in accordance with predominant wall condition. However, all applicable UL assemblies for all conditions are included.

K. PERCENTAGE OF WALL OPENING CALCULATIONS

■ NO CHANGE

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

* SEE LIFE SAFETY PLANS FOR WALL LOCATIONS

L. WALL LEGENDS

Check if the following are present and indicated by a wall legend on all plans

☐ Fire Walls 706 ☐ Fire Barriers 707 ☐ Shaft Enclosure 707
■ Fire Partition 708 ☐ Smoke Barriers 709 ☐ Smoke Partitions 710
☐ Horizontal Assembly 711 ☐ No Rated Walls Are Present

M. AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS (IBC 903)

OCCUPANCY:	REQUIRED	NOT REQUIRED	NOT REQUIRED - FIRE AREA SEPARATED BY FIRE-RATING (IBC 901.7)
GROUP A (IBC 903.2.1)	■	☐	☐
AMBULATORY CARE (IBC 903.2.2)	☐	☐	☐
GROUP E (IBC IBC 903.2.3)	☐	☐	☐
GROUP F (IBC IBC 903.2.4)	☐	☐	☐
GROUP H (IBC IBC 903.2.5)	☐	☐	☐
GROUP I (IBC IBC 903.2.6)	☐	☐	☐
GROUP M (IBC IBC 903.2.7)	☐	☐	☐
GROUP R(IBC IBC 903.2.8)	☐	☐	☐
GROUP S (IBC 903.2.9)	☐	☐	☐
COMMERCIAL PARKING GARAGES (IBC 903.2.10)	☐	☐	☐
SPECIFIC BUILDING AREAS & HAZARDS (IBC 903.2.11)	☐	☐	☐

N. LIFE SAFETY SYSTEMS

Emergency Lighting: (1006) ☐ No ■ Yes

Exit Signs: (1011) ☐ No ■ Yes

Fire Alarm: (907, NFPA 72-07) ☐ No ■ Yes

Smoke Detection Systems: (907) ☐ No ☐ Yes ☐ Partial

Panic Hardware: (1010.1.10) ☐ No ☐ Yes

Life Safety systems generator: (2702.2) ☐ No ☐ Yes

O. LIFE SAFETY PLAN CHECK LIST FOR COMPLIANCE

Life Safety Plan Sheet #: LS100 & 101

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations
☐ Exterior wall opening area with respect to distance to assumed property lines (IBC 705.8)
☐ Existing structures within 30' of the proposed building
☐ Occupancy types for each area as it relates to occupant load calculations (LSC 7.3.1, IBC 1004.5)
☐ Occupant loads for each area
☐ Exit access travel distance (LSC A.7.6)
☐ Common path of travel distance (LSC A.7.6)
☐ Dead end lengths (LSC A.7.6)
☐ Clear exit widths for each exit door
☐ Max. calculated occupant load capacity each exit door can accommodate per egress width (LSC 7.3.3.1)
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is
☐ Actual occupant load for each exit door provided for purposes of occupancy separation
☐ Location of doors with panic hardware (LSC 7.2.1.7)
☐ Location of doors with delayed egress locks and the amount of delay
☐ Location of doors with electromagnetic egress locks
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows
☐ The square footage of each fire area
☐ The square footage of each smoke compartment
☐ Note any code exception or table notes that may have been utilized regarding the items above

P. EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS (LSP 7.4 & 7.5) SHOWN ON PLANS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE*	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS*	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE BETWEEN EXIT DOORS
FIRST FLOOR	2	2	250' - 0"	63' - 0"	22' - 3"	27' - 4"

*Allowable Travel Distance and Actual Travel Distance at R2 Occupancy calculated from corridor door of unit to nearest exit. Actual Travel Distance within all units does not exceed maximum 125' allowed.

OCCUPANT LOAD AND EXIT WIDTH (LSC 7.3.1.2)

USE GROUP OR SPACE DESCRIPTION	(a) AREA SQ. FT.	(b) AREA PER OCCUPANT	CALCULATE OCCUPANT LOAD (a/b)	(c) EGRESS WIDTH PER OCCUPANT Stair	(c) EGRESS WIDTH PER OCCUPANT Level	EXIT WIDTH (IN) REQUIRED WIDTH (SECTION 1005.1) (a/b) x c Stair	EXIT WIDTH (IN) REQUIRED WIDTH (SECTION 1005.1) (a/b) x c Level	EXIT WIDTH (IN) ACTUAL WIDTH Stair	EXIT WIDTH (IN) ACTUAL WIDTH Level
FIRST FLOOR (A2 OCCUPANCY)	935 sf	15	63	.3"	.2"	-	12.6"	-	180"
FIRST FLOOR (BAR)	375 sf	100	4	.3"	.2"	-	.8"	-	180"
FIRST FLOOR (KITCHEN)	435 sf	100	5	.3"	.2"	-	1"	-	180"
FIRST FLOOR (BUSINESS)	52 sf	150	1	.3"	.2"	-	.2"	-	180"
COURTYARD SEATING	900 sf	15	60						
TOTAL:			133						

1. See Table 7.3.1.2 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area Net"
2. Minimum stairway width (Section 7.2.2.2); min. door width (Section 7.2.1.2)
3. Minimum width of exit passageway (Section 7.3.4)
4. Assembly occupancies (Chapter 12)

Q. PLUMBING FIXTURE REQUIREMENTS

☐ NO CHANGE

If using fixtures one floor above or one floor below, show calculations to justify the count (TABLE 2902.1)

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION		WATERCLOSETS MALE	WATERCLOSETS FEMALE	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
ASSEMBLY (A2)	Occupant Load	67	67	133	133	133
	Fixtures Required	1:75	1:75	1:200	1:500	1
		1	1	1		
	Fixtures Provided	1	1	2	*0	1

*2018 IPC 410.4 SUBSTITUTION: WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED IN THOSE RESTAURANTS.

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Revisions

No	Date	Description

STATE OF GEORGIA ANDREW LYNCH 012324 REGISTERED ARCHITECT

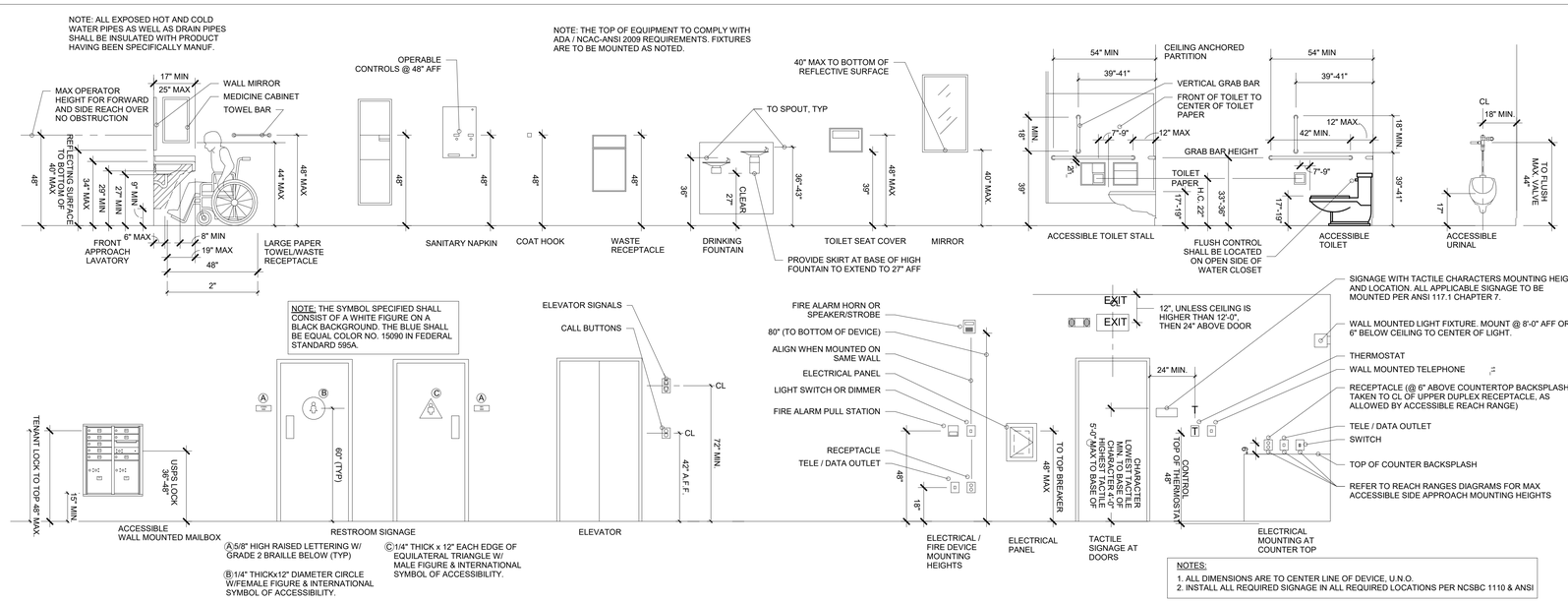
BUILDING CODE ANALYSIS

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

G002

2/14/2025 4:22:20 PM

GENERAL ADA DIAGRAMS AND NOTES



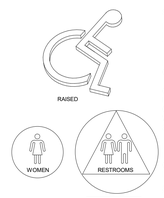
Ⓐ 5/8" HIGH RAISED LETTERING W/ GRADE 2 BRAILLE BELOW (TYP)

Ⓑ 1/4" THICKx12" DIAMETER CIRCLE W/FEMALE FIGURE & INTERNATIONAL SYMBOL OF ACCESSIBILITY.

Ⓒ 1/4" THICK x 12" EACH EDGE OF EQUILATERAL TRIANGLE W/ MALE FIGURE & INTERNATIONAL SYMBOL OF ACCESSIBILITY.

NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, U.N.O.
2. INSTALL ALL REQUIRED SIGNAGE IN ALL REQUIRED LOCATIONS PER NCSBC 1110 & ANSI

ACCESSIBILITY SIGNS AND PICTOGRAMS (NTS)



LETTERS AND NUMBERS

A. WIDTH TO HEIGHT RATIO BETWEEN 3 : 5 AND 1 : 1
B. STROKE WIDTH TO HEIGHT BETWEEN 1 : 5 AND 1 : 10
C. CONTRAST CHARACTERS AND SYMBOLS WITH BACKGROUND.
D. SANS SERIF CHARACTERS.

SIGNS / PICTOGRAMS

E. PICTOGRAMS / PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION SHALL BE 6" MIN. HEIGHT.

F. CHARACTERS AND BACKGROUNDS SHALL BE OF NON-GLARE CONTRASTING COLORS.

G. SIGNS / PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND AT 60" A.F.F TO SIGN CENTERLINE AND WHERE A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE. WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE DOOR SWING AREA. OR STANDING WITHIN THE DOOR SWING AREA.

H. VERTICAL CLEARANCE AT SUSPENDED SIGNS WITH MINIMUM HEADROOM OF 80" REQUIRE MINIMUM 3" CHARACTER HEIGHT MEASURED BY USING UPPERCASE "X" CHARACTERS AND NUMBERS SHALL BE SIZED ACCORDING TO VIEWING DISTANCE FROM WHICH READ. LOWER CASE CHARACTERS PERMITTED.

SIGN LOCATIONS

I. ALL ACCESSIBLE ENTRANCES IDENTIFIED WITH MINIMUM OF ONE STANDARD SIGN.

J. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.

K. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERNATIONAL SYMBOL OF ACCESSIBILITY

L. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES. RAISED

M. WHITE FIGURE ON BLUE BACKGROUND, COLOR 15090 ON FEDERAL STANDARD 595A.

N. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

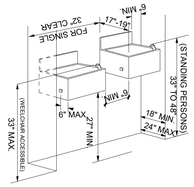
BRAILLE

O. USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.

P. 0.2 INCH SPACE BETWEEN CELLS.

Q. DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

ACCESSIBLE DRINKING FOUNTAIN REQUIREMENTS (NTS)



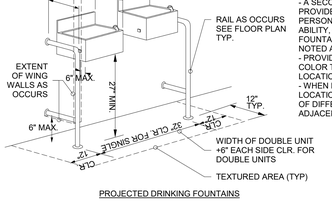
RECESSED DRINKING FOUNTAINS

RECESSED FOUNTAINS

A. WITHIN ALCOVES MINIMUM 18" DEEP AND 32" MIN. CLR. WHEN A SINGLE FOUNTAIN IS PERMITTED.
- CONTRACTOR SHALL COORDINATE WITH SIZE OF WATER FOUNTAIN TO BE USED AND SIZED ALCOVE ACCORDINGLY COMPLYING WITH REQUIREMENTS AND RECOMMENDATIONS AND COORDINATING WITH THE ARCHITECT.

PROJECTED FOUNTAINS

B. WARNING FOR THE VISION IMPAIRED AT THE PROJECTED DRINKING FOUNTAIN CAN BE PROVIDED BY EITHER OF THE FOLLOWING MEANS:
- THE SURFACE OF THE FLOOR OR GROUND AT THE DRINKING FOUNTAIN CAN BE OF CONTRASTING COLOR WITH A TEXTURE THAT CONTRASTS IN RESILIENCY WITH THE ADJACENT FINISHED FLOOR MATERIAL. SO THAT IT CAN BE SENSED BY A CANE , WITH THE TEXTURE EXTENDING FROM THE WALL TO ONE FOOT BEYOND THE FRONT EDGE OF THE DRINKING FOUNTAIN AND ONE FOOT BEYOND EACH SIDE IF THE FOUNTAIN, OR
- INSTALL WING WALLS ON EACH SIDE OF THE DRINKING FOUNTAIN TO PROJECT OUT FROM THE MAIN WALL AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6" OF THE PATH OF TRAVEL FLOOR FINISH. THERE MUST BE 32" CLR. BETWEEN THE WING WALLS, OR
- GUARDRAILS SHALL BE A MINIMUM OF 32" CLR. BETWEEN AND PROJECT FROM THE SUPPORT WALL TO THE PROJECTING FACE OF THE FOUNTAIN AND WITHIN 6" OF THE FINISH SURFACE OF THE PATH OF TRAVEL.
C. FOUNTAIN AND GUARDRAILS, ETC. SHALL NOT REDUCE THE REQUIRED ACCESSIBLE ROUTE/PATH WIDTH.

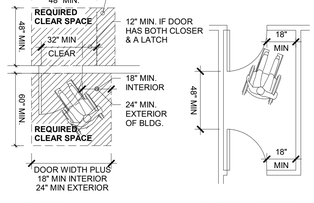


PROJECTED DRINKING FOUNTAINS

NOTE

- ILLUSTRATIONS SHOWN HERE ARE FOR DIMENSIONAL ACCESSIBILITY PURPOSES ONLY.
- A SECOND DRINKING FOUNTAIN SHOULD BE PROVIDED AT A MOUNTING HEIGHT SUITABLE TO PERSONS WITH LIMITED PHYSICAL BENDING ABILITY, ADJACENT TO THE ACCESSIBLE FOUNTAIN, MAINTAINING MINIMUM CLEARANCES NOTED AND AS REQUIRED.
- PROVIDE TEXTURED AREA OF CONTRASTING COLOR TO IDENTIFY WATER FOUNTAIN LOCATION AS NOTED.
- WHEN FOUNTAIN IS AT AN INTERIOR LOCATION,THE TEXTURED AREA SHALL ALSO BE OF DIFFERENT RESILIENCY THAN THAT OF THE ADJACENT FLOOR SURFACE FINISH.

ACCESSIBLE CLEAR SWING - MANUAL DOORS AND GATES (NTS)

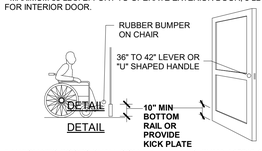


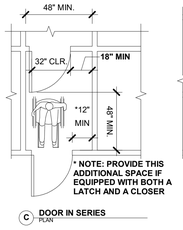
DOOR TYPE.

* MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.

HARDWARE.

* OPENABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.
* OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT REQUIRING GRASPING)
* MOUNTED 36" TO 42".
* MAXIMUM 85 LBS. EFFORT TO OPERATE EXTERIOR DOOR, 5 LBS FOR INTERIOR DOOR.





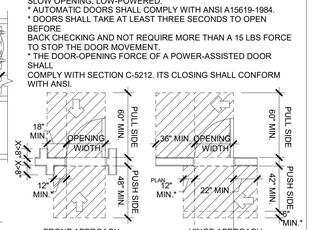
NOTES

A. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.

B. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR; THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48".

*APPLICABLE ONLY TO DOORS PROVIDED WITH A CLOSER AND LATCH

* AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A15610-1985 SLOW OPENING, LOW-POWERED.
* AUTOMATIC DOORS SHALL COMPLY WITH ANSI A15619-1984.
* DOORS SHALL TAKE AT LEAST THREE SECONDS TO OPEN BEFORE BACK CHECKING AND NOT REQUIRE MORE THAN A 15 LBS FORCE TO STOP THE DOOR MOVEMENT.
* THE DOOR-OPENING FORCE OF A POWER-ASSISTED DOOR SHALL COMPLY WITH SECTION C-5212. ITS CLOSING SHALL CONFORM WITH ANSI.



GENERAL NOTES

ADDITIONAL ACCESSIBLE ROUTE NOTES FOR ACCESSIBILITY COMPLIANCE WITH FHA DM 1998, ICC/ANSI A117.1-2009, AND 2010 ADA STD.

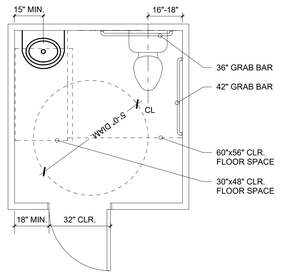
1. ACCESSIBLE ROUTES SHALL COMPLY WITH FHA DM 1998 REQUIREMENTS 1, 2, 4, ANSI 2009 CHAPTER 4, INCLUDING SECTIONS 401-410, AND 2010 ADA STD CHAPTER 4, INCLUDING SECTIONS 401-410.
2. PROTRUDING OBJECTS ON CIRCULATION PATHS WITHIN COMMON USE AREAS TO COMPLY WITH ANSI 2009 SECTION 7, INCLUDING:
A. PROTRUSION LIMITS: OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FLOOR SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH. EXCEPTIONS INCLUDE HANDRAILS, DOOR CLOSERS, AND DOOR STOPS.
B. POST-MOUNTED OBJECTS: OBJECTS ON POSTS OR PYLONS SHALL BE PERMITTED TO OVERHANG 4" MAXIMUM WHERE MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FLOOR. OBJECTS ON MULTIPLE POSTS OR PYLONS WHERE THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12" SHALL HAVE THE LOWEST EDGE OF SUCH OBJECT EITHER 27" MAXIMUM OR 80" MINIMUM ABOVE THE FLOOR.
C. REDUCED VERTICAL CLEARANCE: GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BEYOND THE LIMITS ALLOWED BY SECTIONS 307.2 AND 307.3, AND WHERE THE VERTICAL CLEARANCE IS LESS THAN 80" ABOVE THE FLOOR. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE 27" MAXIMUM ABOVE THE FLOOR.
3. PROTRUDING OBJECTS ON CIRCULATION PATHS WITHIN PUBLIC USE AREAS TO COMPLY WITH 2010 ADA STD SECTION 307, INCLUDING:
STD SECTION 307, INCLUDING:
A. 2010 ADA STD SECTION 307.2: PROTRUSION LIMITS
B. 2010 ADA STD SECTION 307.3: POST-MOUNTED OBJECTS
C. 2010 ADA STD SECTION 307.4: VERTICAL CLEARANCE
D. 2010 ADA STD SECTION 307.5: REQUIRED CLEAR WIDTH
4. FLOOR AND GROUND SURFACES (INCLUDING FLOOR MATERIAL TRANSITIONS) IN COMMON USE AREAS SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND SHALL COMPLY WITH ANSI 2009 SECTIONS 302, INCLUDING:
A. ANSI 2009 SECTION 302.2: CARPET
B. ANSI 2009 SECTION 302.3: OPENINGS
C. ANSI 2009 SECTION 303.4: RAMPED
5. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) IN COMMON USE AREAS SHALL COMPLY WITH ANSI 2009 SECTION 303, INCLUDING:
COMPLY WITH ANSI 2009 SECTION 303, INCLUDING:
A. ANSI 2009 SECTION 303.2: VERTICAL
B. ANSI 2009 SECTION 303.3: BEVELED
C. ANSI 2009 SECTION 303.4: RAMPED
6. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) WITHIN COVERED TENANT UNITS TO COMPLY WITH ANSI 2009 SECTION 403: WALKING SURFACES
7. FLOOR AND GROUND SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES WITH PUBLIC USE AREAS SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND SHALL COMPLY WITH 2010 ADA STD SECTION 302.1, INCLUDING:
A. 2010 ADA STD SECTION 302.2: CARPET
B. 2010 ADA STD SECTION 302.3:. OPENINGS
8. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) IN PUBLIC USE AREAS SHALL COMPLY WITH 2010 ADA STD SECTION 303.1, INCLUDING:
A. 2010 ADA STD SECTION 303.2: VERTICAL
B. 2010 ADA STD SECTION 303.3: BEVELED
C. 2010 ADA STD SECTION 303.4: RAMPED

ADDITIONAL DOOR AND HARDWARE SCHEDULE NOTES FOR ACCESSIBILITY COMPLIANCE WITH FHA DM 1998, ICC/ANSI A117.1-2009, AND 2010 ADA STD.

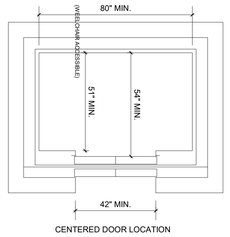
1. MANUAL DOORS AND GATES IN PUBLIC USE AREAS SHALL COMPLY WITH 2010 ADA STD SECTION 404.2 AND AUTOMATIC AND POWER-ASSISTED DOORS AND GATES IN PUBLIC USE AREAS SHALL COMPLY WITH AND AUTOMATIC AND POWER-ASSISTED DOORS AND GATES IN PUBLIC USE AREAS SHALL COMPLY WITH ADA-ABA 2010 SECTION 404.3. MANUAL DOORS, DOORWAYS, AND GATES IN COMMON USE SPACES AND ON THE PUBLIC SIDE OF DWELLING UNIT ENTRY DOORS TO COMPLY WITH ANSI 2003 SECTION 404.2 AUTOMATIC DOORS AND GATES IN COMMON USE SPACES SHALL COMPLY WITH ANSI 2009 SECTION 404.3.
2. ACCESSIBLE DOORS (IN PUBLIC AND COMMON USE SPACES AND ON THE PUBLIC SIDE OF DWELLING UNIT ENTRY DOORS) MUST PROVIDE A 32" MIN. PASSAGE DOOR WIDTH PER 2010 ADA STD SECTIONS 404.2.3 & 404.3.1 FOR PUBLIC USE DOORS AND ANSI 2009 SECTIONS 404.2.2 AND 404.3.1 AND FHA DM CHAPTER 2, PP. 3.2 FOR COMMON USE AND TENANT ENTRY DOORS.
3. USABLE DOORS (WITHIN THE INTERIOR OF DWELLING UNIT) MUST PROVIDE 32" NOMINAL (31-5/8") PASSAGE DOOR WIDTH PER FHA DM CHAPTER 3 PP. 3.2-3.5.
4. COMMON USE AREA DOORS AND TENANT PRIMARY ENTRY DOORS (PUBLIC SIDE ONLY) TO PROVIDE MANEUVERING CLEARANCE AT DOORWAYS TO COMPLY WITH ANSI 2009 SECTIONS 404.2.3 AND 404.3.2.
5. COMMON USE AREA DOORS AND TENANT PRIMARY ENTRY DOORS TO PROVIDE THRESHOLDS AT DOORWAYS TO COMPLY WITH ANSI 2009 SECTION 404.2.5 AND 403.2 AND FHA DM PP. 3.10, 4.11-4.15.
6. TENANT SECONDARY EXTERIOR DOORS (PATIO, BALCONY DOORS, ETC.) TO PROVIDE THRESHOLDS AT DOORWAYS TO COMPLY WITH FHA DM PP. 3.10, 4.11-4.15.
7. OPERABLE PARTS, INCLUDING DOOR HARDWARE, ON COMMON USE AREA DOORS AND TENANT PRIMARY ENTRY DOORS TO COMPLY WITH ANSI 2009 SECTION 309, INCLUDING:
A. ANSI 2009 SECTION 309.2: PROVIDE CLEAR FLOOR SPACE COMPLYING WITH ANSI SECTION 305.
B. ANSI 2009 SECTION 309.3: OPERABLE PARTS SHALL BE PLACED WITHIN REACH RANGES SPECIFIED IN ANSI SECTION 308.
C. ANSI 2009 SECTION 309.4: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS MAXIMUM.
8. COMMON USE AREA DOORS AND TENANT PRIMARY ENTRY DOORS TO COMPLY WITH ANSI 2003 SECTION 404, INCLUDING:
A. ANSI 2009 SECTION 404.2.6: DOOR HARDWARE
B. ANSI 2009 SECTION 404.2.7: CLOSING SPEED
C. ANSI 2009 SECTION 404.2.8: DOOR OPENING FORCE
D. ANSI 2009 SECTION 404.2.9: DOOR SURFACE
E. ANSI 2009 SECTION 404.2.10: VISION LITES
9. ALL ACCESS DEVICES, CARD READERS, ELEVATOR CONTROLS, ETC. SHALL BE 34"-36" FROM FINISH FLOOR AND 24" MIN. FROM INSIDE CORNERS OR OTHER FEATURES THAT COULD BLOCK ACCESS. AVOID PLACING TRASH CANS OR SIMILAR WITHIN DISTANCES STATED ABOVE.

THIS DRAWING IS PROVIDED TO HELP A GENERAL CONTRACTOR TO INSTALL BUILDING ELEMENTS IN COMPLIANCE WITH ANSI 117.1-2009, FAIR HOUSING ACT DESIGN MANUAL 1998 AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. IT IS NOT OUR INTENT TO LIST COMPLETE REGULATIONS & GUIDELINES IN THOSE DOCUMENTS. GENERAL CONTRACTOR IS RESPONSIBLE TO INSTALL ALL THE BUILDING ELEMENTS ACCORDING TO ABOVE DOCUMENTS REGARDLESS OF WHETHER OR NOT IT IS SHOWN HERE.

TYPICAL ACCESSIBLE SINGLE TOILET (NTS)



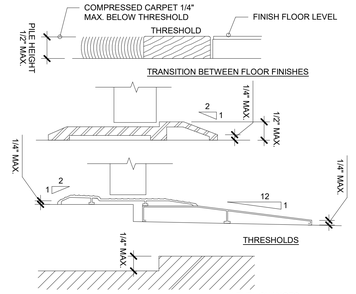
TYPICAL ELEVATOR CAB (NTS)



CENTERED DOOR LOCATION

NOTE: TYPICAL ELEVATOR CAB IS INTENDED TO MEET MIN. ACCESSIBILITY REQUIREMENTS. SEE CONSTRUCTION DOCUMENTS FOR HOISTWAY SIZE AND OPENING LOCATION SPECIFIC TO PROJECT.

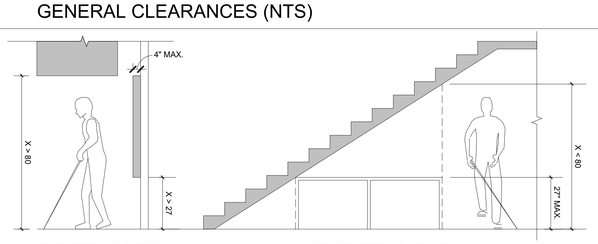
THRESHOLD REQUIREMENTS (NTS)



NOTES

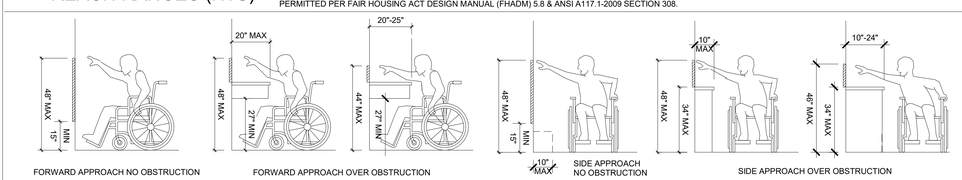
A. 1/2" MAX. TOTAL HEIGHT WITH 1/4" MAX. VERTICAL CHANGE AT EDGE.
B. 1 : 2 SLOPE BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.
C. 1/4" MAX. VERTICAL LEVEL CHANGE.

GENERAL CLEARANCES (NTS)



REACH RANGES (NTS)

NOTE:
ON SIDE APPROACH REACHES RANGES INSIDE OF DWELLING UNITS, AN OBSTRUCTION HEIGHT OF 36" IS PERMITTED PER FAIR HOUSING ACT DESIGN MANUAL (FHADM) 5.8 & ANSI A117.1-2009 SECTION 308.



PLAN

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Revisions

No	Date	Description

STATE OF GEORGIA
JOHN M. LYNCH
REGISTERED ARCHITECT

ADA/ANSI DIAGRAMS & NOTES

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

G003

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Design No. U905

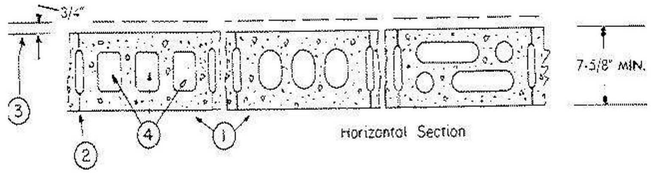
March 11, 2016

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation" and "EnergyShield Pro 2 Wall Insulation"

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ Sheath

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

5A. **Building Units —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

6" = 1'-0"

A01 U905

ONLINE CERTIFICATIONS DIRECTORY

BXUV.U465
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

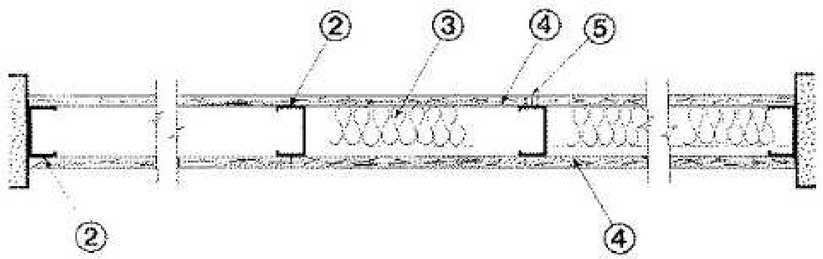
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U465

March 03, 2010

Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners —** (not shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members*— Floor and Ceiling Runners —** (Not shown) — As an alternate to Item 1 - Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

12" = 1'-0"

A13 U465 PG 1

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No	Date	Description

STATE OF GEORGIA
REGISTERED ARCHITECT

UL ASSEMBLIES

Status	100% CDS
Date	2-13-2025
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Drawing No.	

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STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

1B. **Framing Members* - Floor and Ceiling Runners —** Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CRACO MFG INC — SmarterTrack20™, SmartTrack20™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper20S™ Track, Viper20D™ Track

1C. **Floor and Ceiling Runners —** (Not shown)—For use with Item 2C- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CLARKWESTERN BUILDING SYSTEMS INC — CW ProTRAK

DIETRICH INDUSTRIES INC — DIETRICH ProTRAK

DMFCWBS L L C — ProTRAK

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members*— Steel Studs —** As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

2B. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

CRACO MFG INC — SmarterStud20™, SmartStud20™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper20S™, Viper20D™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 4E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2D. **Framing Members*— Steel Studs —** As an alternate to Items 2 through 2C- For use with Item 1D and 4G only, channel shaped studs, min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

CLARKWESTERN BUILDING SYSTEMS INC — CW ProSTUD

DIETRICH INDUSTRIES INC — DIETRICH ProSTUD

DMFCWBS L L C — ProSTUD

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

See **Batts and Blankets** (BZJZ) category for names of Classified companies.

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft^3. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft^3.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC

LTD CO — Type DBX-1.

CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, ProRoc Type X, ProRoc Type C.

CERTAINTEED GYPSUM CANADA INC — ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6.

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6.

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Revisions

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STATE OF GEORGIA
REGISTERED ARCHITECT

UL ASSEMBLIES

Status	100% CDS
Date	2-13-2025
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Drawing No.	

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Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 7 in. OC. Not to be used with item 6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

4F. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1C and 2C only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX

4H. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

QUIET SOLUTION INC — Types QuietRock ES, QuietRock 527.

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F.

6A. **Steel Framing Members (Not Shown)* —** As an alternate to Item 3, furring channels and resilient sound isolation clip as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Type RSIC-1.

6B. **Framing Members* —** Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the stud with min. 1 in. long Type S-12 pan head steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

7. **Wall and Partition Facings and Accessories* —** (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

QUIET SOLUTION INC — Type QuietRock QR-510.

8. **Lead Batten Strips —** (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

*Bearing the UL Classification Mark

Last Updated on 2010-03-03

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No	Date	Description

UL ASSEMBLIES

Status	100% CDS
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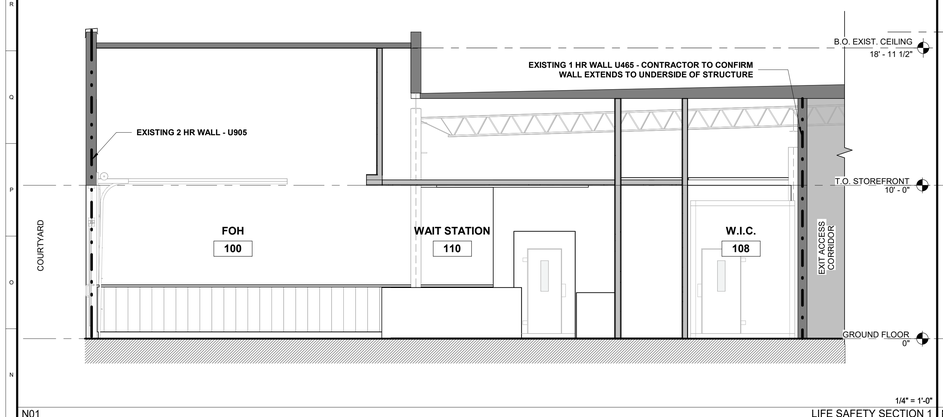
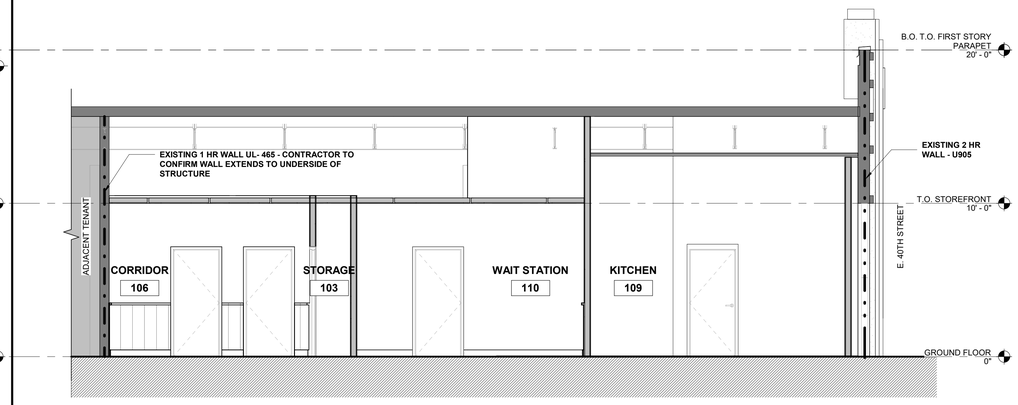
12" = 1'-0"



1/4" = 1'-0"

N01 LIFE SAFETY SECTION 1



1/4" = 1'-0"

N11 LIFE SAFETY SECTION 2

LIFE SAFETY NOTES

1. REFER TO ELECTRICAL PLANS FOR EMERGENCY LIGHTING LOCATIONS.
2. CONTRACTOR TO PROVIDE FIRE BARRIER / FIRE CAULK AT ALL RATED WALL / FLOOR PENETRATIONS. SEE MECHANICAL PLAN FOR FIRE DAMPER LOCATIONS.
3. COORDINATE EXIT LIGHTS & EXIT SIGNS WITH ELECTRICAL PLANS.
4. SEE SHEET **LS001** FOR UL DESIGNATIONS AND UL DETAILS.
5. ALL ACCESS DOORS / FIRE DAMPERS FOR SERVICE OF EQUIPMENT TO MATCH REQUIRED PARTITION RATING. CONTRACTOR TO PROVIDE.

PORTABLE FIRE EXTINGUISHER REQUIREMENTS

1. ALL PORTABLE FIRE EXTINGUISHERS SHALL COMPLY WITH THE LOCAL FIRE DEPARTMENT AND THE NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
2. FIRE EXTINGUISHER SIZE AND PLACEMENT SHALL COMPLY WITH TABLE 5.2.1. OF NFPA 10 UNDER ORDINARY HAZARD.
3. PROVIDE CLASS A MULTIPURPOSE DRY-CHEMICAL TYPE IN STEEL CONTAINER: UL-RATED 4-A:60-B:C, 10-LB NOMINAL CAPACITY, WITH MONOAMMONIUM PHOSPHATE-BASED DRY CHEMICAL IN ENAMELED-STEEL CONTAINER.
4. FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF A FIRE ALONG NORMAL PATHS OF TRAVEL TO EXITS.
5. FIRE EXTINGUISHERS WEIGHING UNDER 40 LBS. SHALL NOT BE MOUNTED HIGHER THAN 5'-0" FROM THE TOP OF THE EXTINGUISHERS. FIRE EXTINGUISHERS WEIGHING OVER 40 LBS. SHALL NOT BE MOUNTED HIGHER THAN 3'-6".
6. ALL FIRE EXTINGUISHERS SHALL BE TESTED AND OPERATIONAL PRIOR TO PROJECT COMPLETION.

FIGURE A.4.3.2.1(a) Typical Class K Placard (English/Spanish).

OCCUPANCY LOAD CALCULATION

OCCUPANCY TYPE	AREA	AREA PER OCC	OCC LOAD
FIRST FLOOR			
A-2 UNCONCENTRATED TABLE AND CHAIRS	935 SF	15 SF	63
BAR	375 SF	100 SF	4
KITCHEN	435 SF	100 SF	5
BUSINESS (B)	52 SF	150 SF	1
KITCHEN WALK-IN COOLER	55 SF	0 SF	
BAR WALK-IN COOLER	52 SF	0 SF	
	1903 SF		73
Total:	1903 SF		73
COURTYARD SEATING	900 SF	15 SF	60
TOTAL OCCUPANCY LOAD:			**133**

OCCUPANCY TYPE KEY

- A-2 UNCONCENTRATED TABLE AND CHAIRS
- BUSINESS (B)
- BAR
- KITCHEN
- BAR WALK-IN COOLER
- KITCHEN WALK-IN COOLER

ADA LEGEND

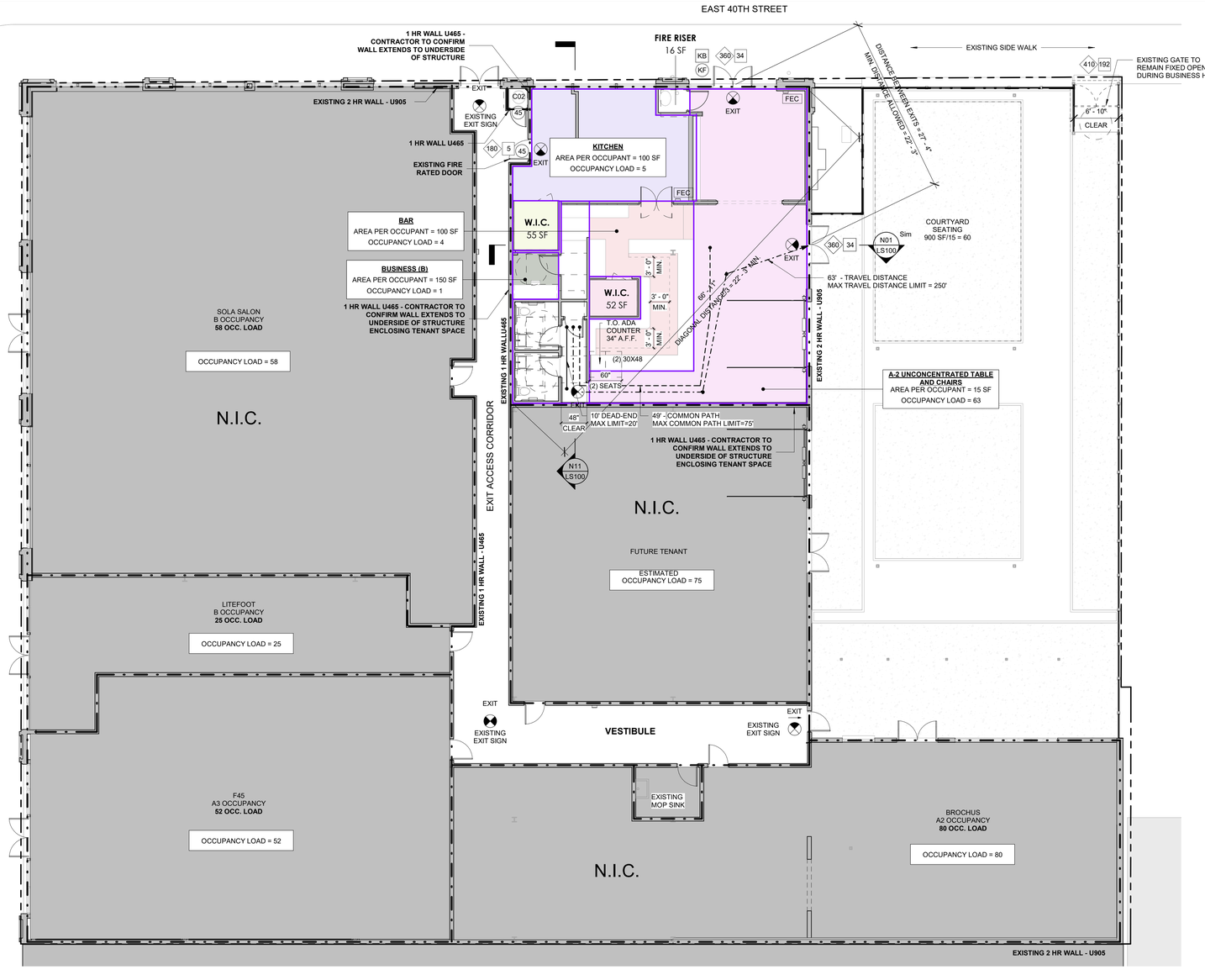
- 5' CLEAR — ADA CLEAR AREA
- 30X48 — ADA CLEAR AREA
- GUESTROOM SHALL HAVE ACCESSIBLE MOBILITY FEATURES, INCLUDING ACCESSIBLE ROUTES, CLEARANCES, REACH RANGES, GRAB BARS AND PLUMBING FIXTURES
- GUESTROOM SHALL HAVE ACCESSIBLE COMMUNICATION FEATURES FOR PERSONS REQUIRING ACCESS FOR HEARING LOSS

LIFE SAFETY LEGEND

- XX'-X" — MAXIMUM DEAD END DISTANCE
- XX'-X" — MAXIMUM TRAVEL DISTANCE
- XX'-X" — MAXIMUM COMMON PATH OF TRAVEL
- FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, 2A RATED, ADA COMPLAINT
- EXIT — EMERGENCY EXIT SIGNAGE REF. ELECTRICAL DWGS
- 1HR — 1 HR RATED PARTITION
- A / B — A: EGRESS CAPACITY; B: ACTUAL EGRESS COUNT AT DOOR
- 45 — FIRE RATED DOOR
- PH — PANIC HARDWARE @ EGRESS SIDE OF DOOR
- KB — KNOX BOX

OCCUPANCY TYPE
AREA PER OCCUPANT = X
OCCUPANCY LOAD = X

OCCUPANT LOAD MULTI-USE



1/8" = 1'-0"

A01 FIRST FLOOR LIFE SAFETY PLAN

NTS

A22 LIFE SAFETY NOTES & LEGEND

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Revisions

No	Date	Description

STATE OF GEORGIA — REGISTERED ARCHITECT

LIFE SAFETY PLANS

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

LS100

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DOOR SCHEDULE

MARK	ROOM NAME	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MANUFACTURER	DOOR MODEL	DOOR MATERIAL	DOOR GLAZING	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAIL REFERENCE HEAD/JAMB	DETAIL REFERENCE DOOR SILL	HARDWARE TYPE	HARDWARE FINISH	ACCESS CONTROL	DOOR & FRAME FIRE RATING	COMMENTS
103A	STORAGE	A	2' - 10"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-3	TBD			
104A	ADA WC	A	3' - 0"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-2	TBD			
105A	ADA WC	A	3' - 0"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-2	TBD			
107A	OFFICE	A	3' - 0"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-1	TBD			
109A	KITCHEN	B	5' - 0"	7' - 0"	ELIASON (OR SELECTED BY OWNER)	SCG-3	STAIN. STEEL/ COMPOSITE CORE	CLEAR TEMPERED	SS	BY MANU.	SS	SS	E09/A001	A09/A001	HW-4	SS			DOUBLE SWING KITCHEN DOOR - 9" X 14" TEMPERED VISION PANEL W/ GASKET
114A	FIRE RISER	A	3' - 0"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-5	TBD			
115A	CO2	A	2' - 6"	7' - 0"	TBD	TBD	HM	- -	PTD	1	HM	PTD	E17/A001	A17/A001	HW-3	TBD		45	

DOOR HARDWARE

HW-1: OFFICE DOOR
1 OFFICE LOCKSET
3 HINGE
3 SILENCER
1 CLOSER
2 KICKPLATES

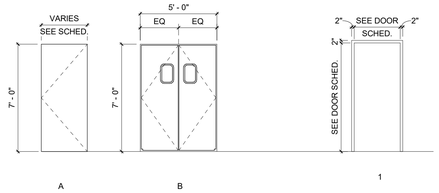
HW-2: WC SINGLE DOOR
1 DUMMY LEVER SET
1 PRIVACY LOCKSET
3 HINGE
3 SILENCER
1 CLOSER

HW-3: UTILITY DOOR
1 STOREROOM LOCKSET
3 HINGE
3 SILENCER
1 CLOSER
2 KICKPLATES

HW-4: KITCHEN DOUBLE DOOR
ELIASON HIDDEN EASY SWING HINGE SYSTEM(BY MANUFACTURER)

HW-5: FIRE RISER DOOR
PASSAGE LEVER HARDWARE
3 HINGE
3 SILENCER
1 CLOSER

DOOR TYPES



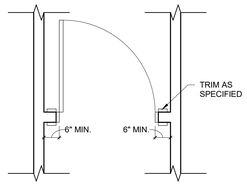
FRAME TYPES

GENERAL DOOR NOTES

1. COORDINATE FRAME, JAMB, HEAD, AND SILL WIDTH WITH ACTUAL WALL WIDTH/SIZE.
2. ALL DOOR AND SIDELITE GLAZING TO BE TEMPERED.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ROUGH OPENINGS.
4. MANUFACTURER TO VERIFY ROUGH OPENING DIMENSIONS PRIOR TO FABRICATION.
5. CONTRACTOR TO REPORT ANY DISCREPANCIES IN DIMENSIONS TO ARCHITECT PRIOR TO ORDERING OR INSTALLATION.
6. ALL COMMON DOOR THRESHOLDS TO BE ADA COMPLIANT.
7. ALL HARDWARE SHALL BE PROVIDED BY A SINGLE HARDWARE SUPPLIER.
8. THE CONTRACTOR SHALL SUBMIT A HARDWARE SCHEDULE FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALLATION, WHICH INCLUDES LOCKSETS, HINGES, DEADBOLTS, FLOORSTOPS, AND ANY OTHER HARDWARE.
9. COORDINATE KEYING WITH OWNER, INCLUDING EXISTING DOORS INTO TENANT SPACE.

MINIMUM DOOR CLEARANCE

NOTE: SEE SHEET G003 FOR MINIMUM ADA-COMPLIANT DOOR CLEARANCES



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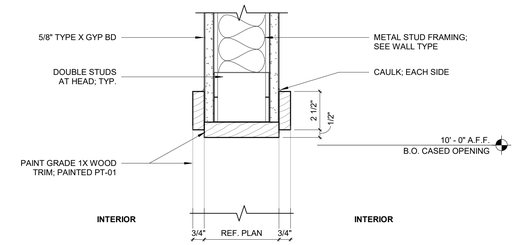
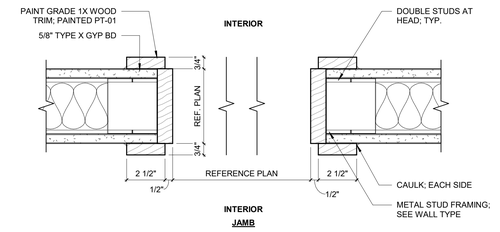
L01 DOOR SCHEDULE LEGEND & NOTES

HEAD

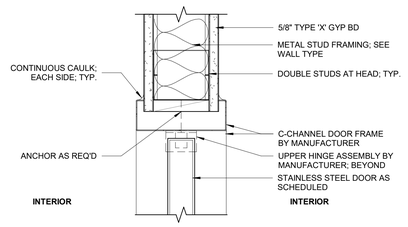


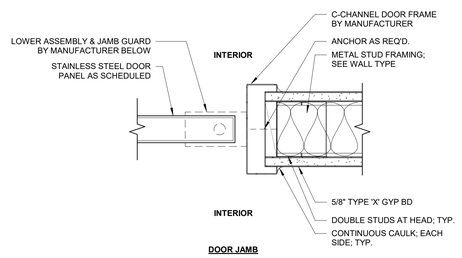


3" = 1'-0"

L17 INTERIOR CASED OPENING

DOOR HEAD

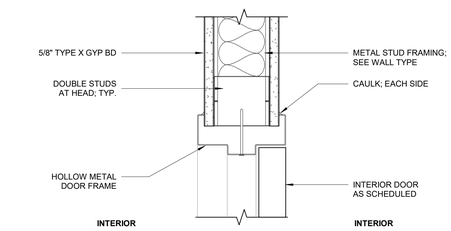


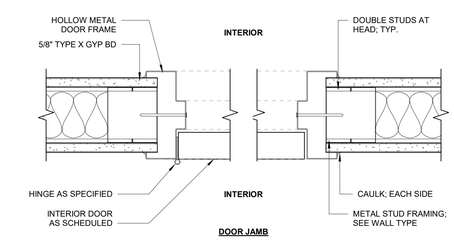


3" = 1'-0"

E09 INTERIOR DOUBLE SWING DOOR HEAD AND JAMB DETAIL

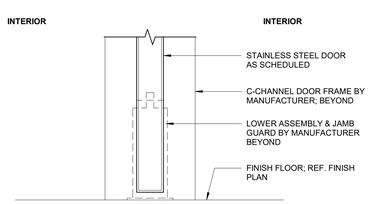
DOOR HEAD





3" = 1'-0"

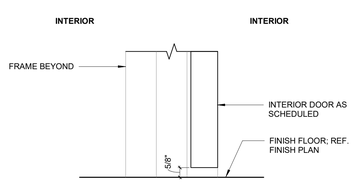
E17 INTERIOR HM DOOR HEAD & JAMB DETAIL



DOOR SILL

3" = 1'-0"

A09 INTERIOR DOUBLE SWING DOOR SILL DETAIL



DOOR SILL

3" = 1'-0"

A17 INTERIOR HM DOOR SILL DETAIL

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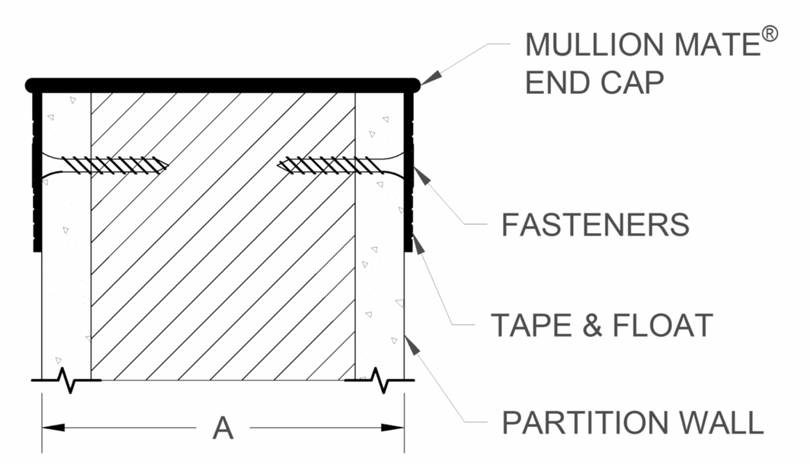

MULLION MATE® END CAPS	
PART #	"A"
MMEC-375	3 3/4"
MMEC-487	4 7/8"
MMECBF-518	5 1/8"
MMECBF-514	5 1/4"
MMECBF-512	5 1/2"
MMEC-600	6"
MMEC-618	6 1/8"
MMEC-725	7 1/4"
MMECBF-812	8 1/2"

* CONTACT FACTORY FOR OTHER SIZE OPTIONS

GORDON ARCHITECTURAL+ENGINEERED SOLUTIONS

PARTITION GAP CLOSURES
MULLION MATE®
END CAP SECTION

WEB01705

NTS

M01 PARTITION MULLION MATE END CAP DETAIL

GENERAL WALL NOTES

1. SEE LIFE SAFETY FOR RATED WALL LOCATIONS
2. PROVIDE SOUND BATT INSULATION AT ALL DEMISING WALLS, CORRIDOR WALLS AND PUBLIC RESTROOMS
3. USE MOISTURE RESISTIVE GYPSUM WALL BOARD CONTINUOUS FROM FLOOR TO CEILING AT ALL WET LOCATIONS

GENERAL ACOUSTICAL NOTES

1. ENSURE THAT THE PERIMETER OF ALL FIRE DAMPERS AND FIRE SPRINKLERS ARE COMPLETELY SEALED WITH A RESILIENT, NON-HARDENING CAULK, SUCH AS SILICON OR POLYURETHANE, OR FIRE CAULK.
2. RESILIENT CHANNELS AND HAT CHANNELS SHALL NOT BE CRUSHED DURING INSTALLATION. CARE MUST BE TAKEN TO INSTALL THE CHANNELS AND THE DRYWALL IN SUCH A WAY THAT CRUSHING IS AVOIDED. PERFORM FREQUENT INSPECTIONS DURING CONSTRUCTION TO ENSURE THAT THE CHANNELS ARE NOT BEING CRUSHED. USE APPROPRIATE LENGTH SCREWS TO INSURE RESILIENT CHANNEL IS NOT BYPASSED.
3. ENSURE THAT PLUMBING PIPES DO NOT DIRECTLY CONTACT WALLS, CEILINGS, AND FLOORS, INCLUDING METAL FRAMING, CONCRETE, AND DRYWALL. MOUNT THE PIPES WITH FIBERGLASS OR FOAM INSULATION INSTEAD OF RIGIDLY CONNECTING THEM TO ANY BUILDING STRUCTURE OR COMPONENTS. NOTE THAT WASTE PIPES MAY REQUIRE A THICKER WALL CAVITY TO AVOID CONTACT WITH BUILDING ELEMENTS. A MINIMUM OF 1" OF INSULATION SHOULD EXIST BETWEEN ALL PIPING AND THE ADJACENT BACK SURFACE OF THE DRYWALL.
4. ENSURE THAT BATHROOM EXHAUST VENTS ARE NOT ROUTED NEAR ANY PLUMBING WASTE PIPES. THEY SHOULD BE IN SEPARATE STUD CAVITIES, SURROUNDED WITH INSULATION, AND WITH NO CONTACT TO THE BACK OF THE DRYWALL, METAL STUDS, OR CONCRETE.
5. IF THE PIPES AND VENTS MUST BE ROUTED NEAR EACH OTHER, THEN THE WASTE PIPES MUST BE WRAPPED WITH AN ACOUSTICAL INSULATION. STANDARD PIPE INSULATION IS NOT SUFFICIENT - IT MUST INCLUDE AN ACOUSTICAL BARRIER WITH A MINIMUM STC RATING OF 26, SUCH AS THE ACOUSTICAL PIPE WRAP MATERIAL SUGGESTED IN THE PRECEDING RECOMMENDATION.

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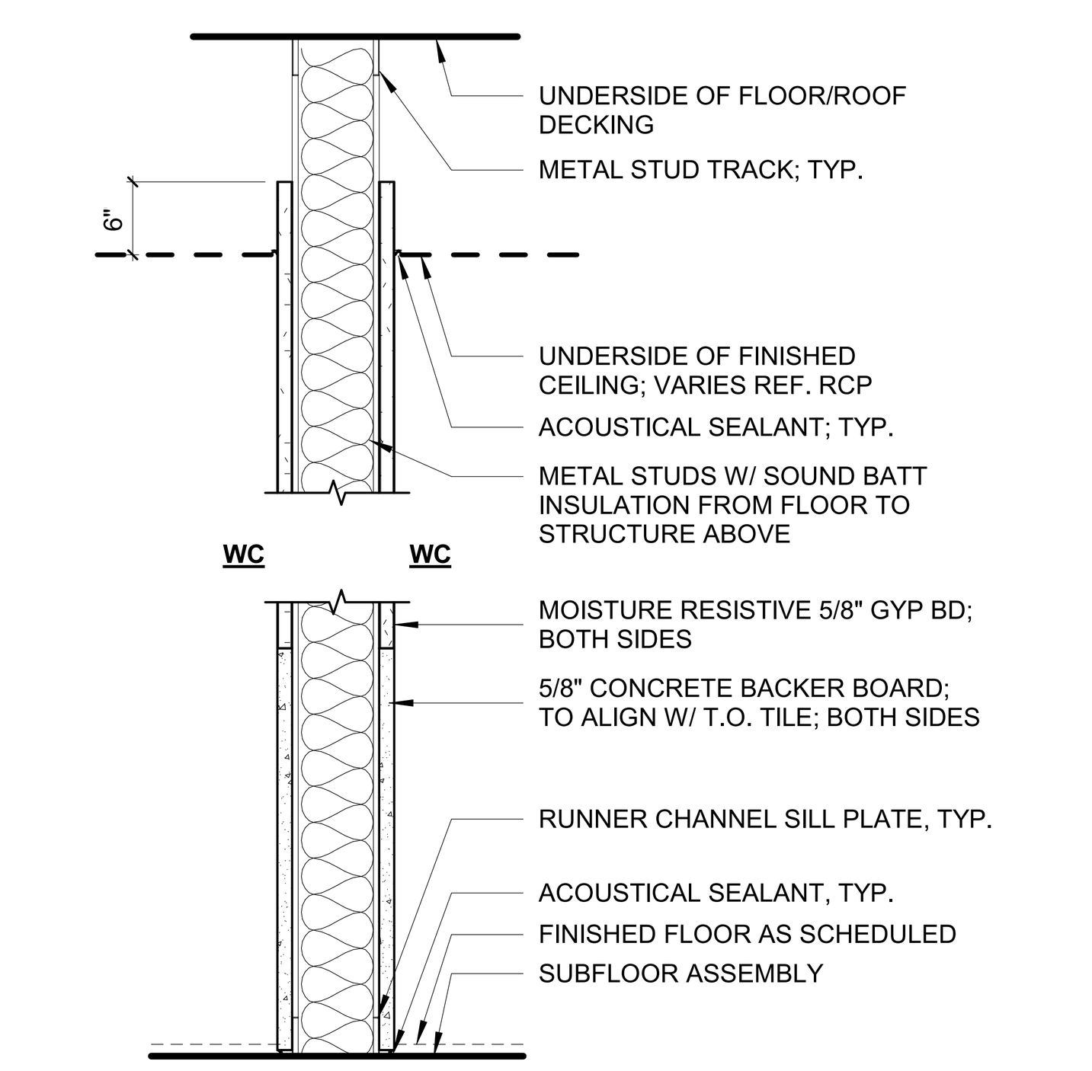
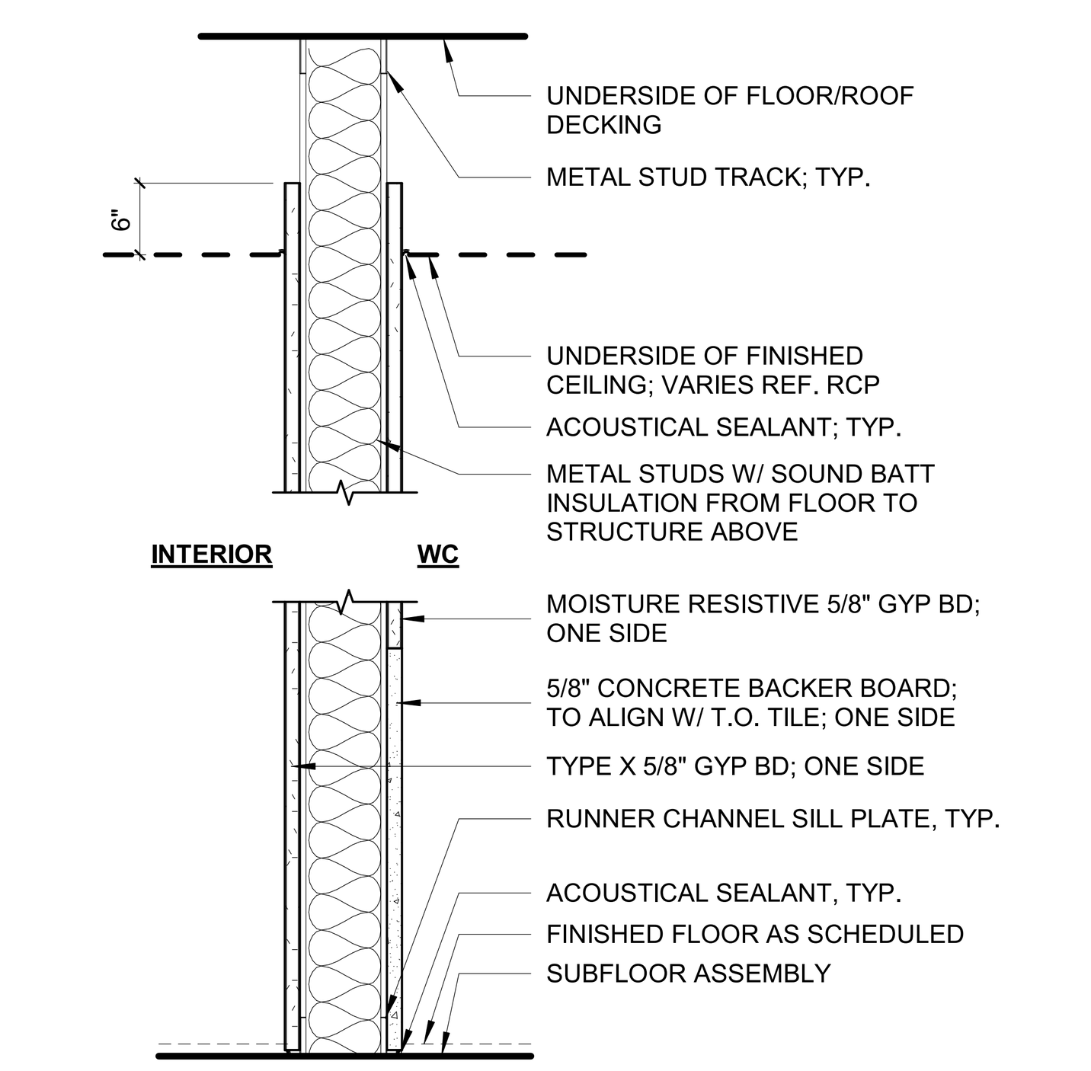
M21 WALL TYPES NOTES



INTERIOR FURRING METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W6.0	3 5/8"	0 HR	N/A	N/A

1 1/2" = 1'-0"

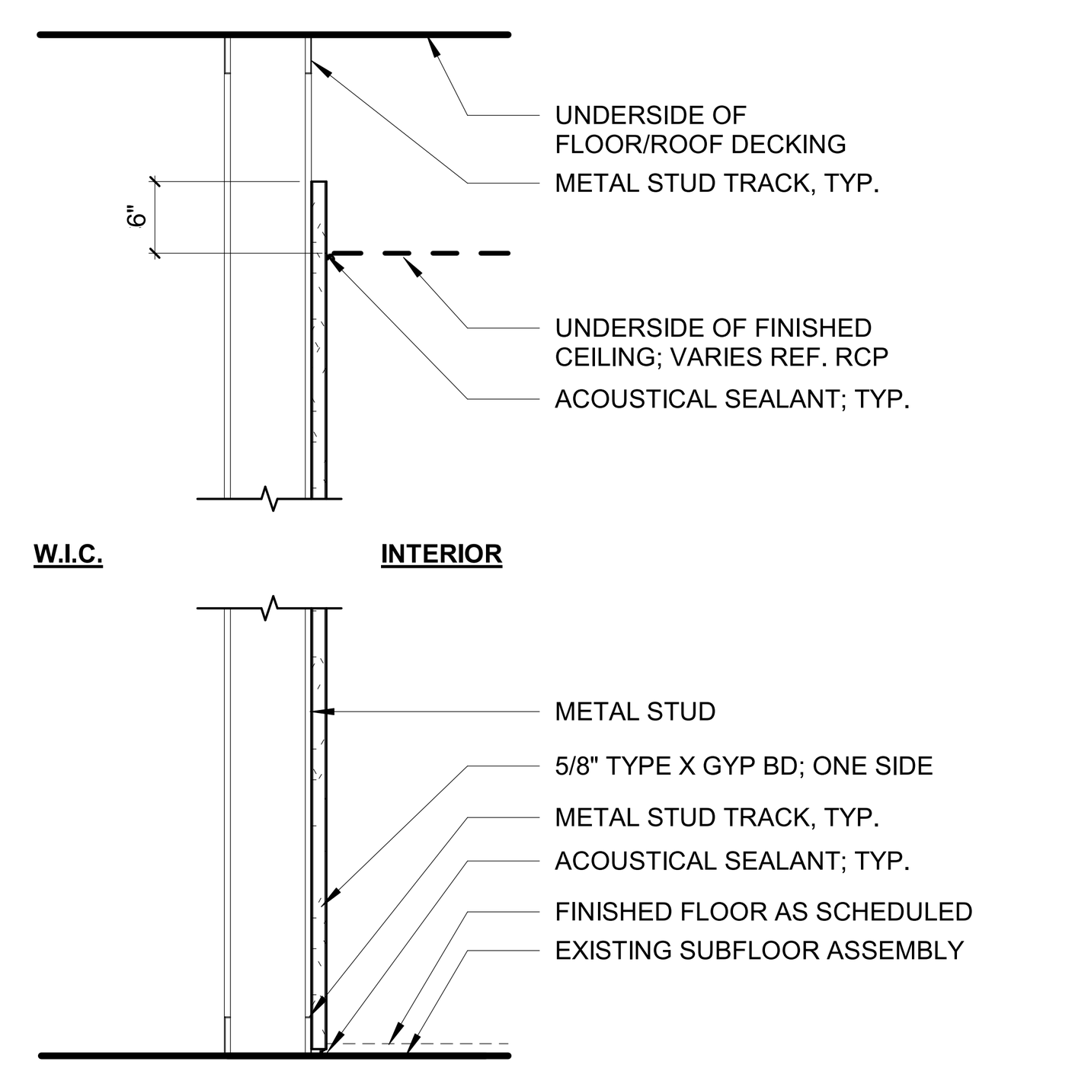
G01 WALL TYPE W6 - METAL



INTERIOR FURRING METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W7.0	3 5/8"	0 HR	N/A	N/A

1 1/2" = 1'-0"

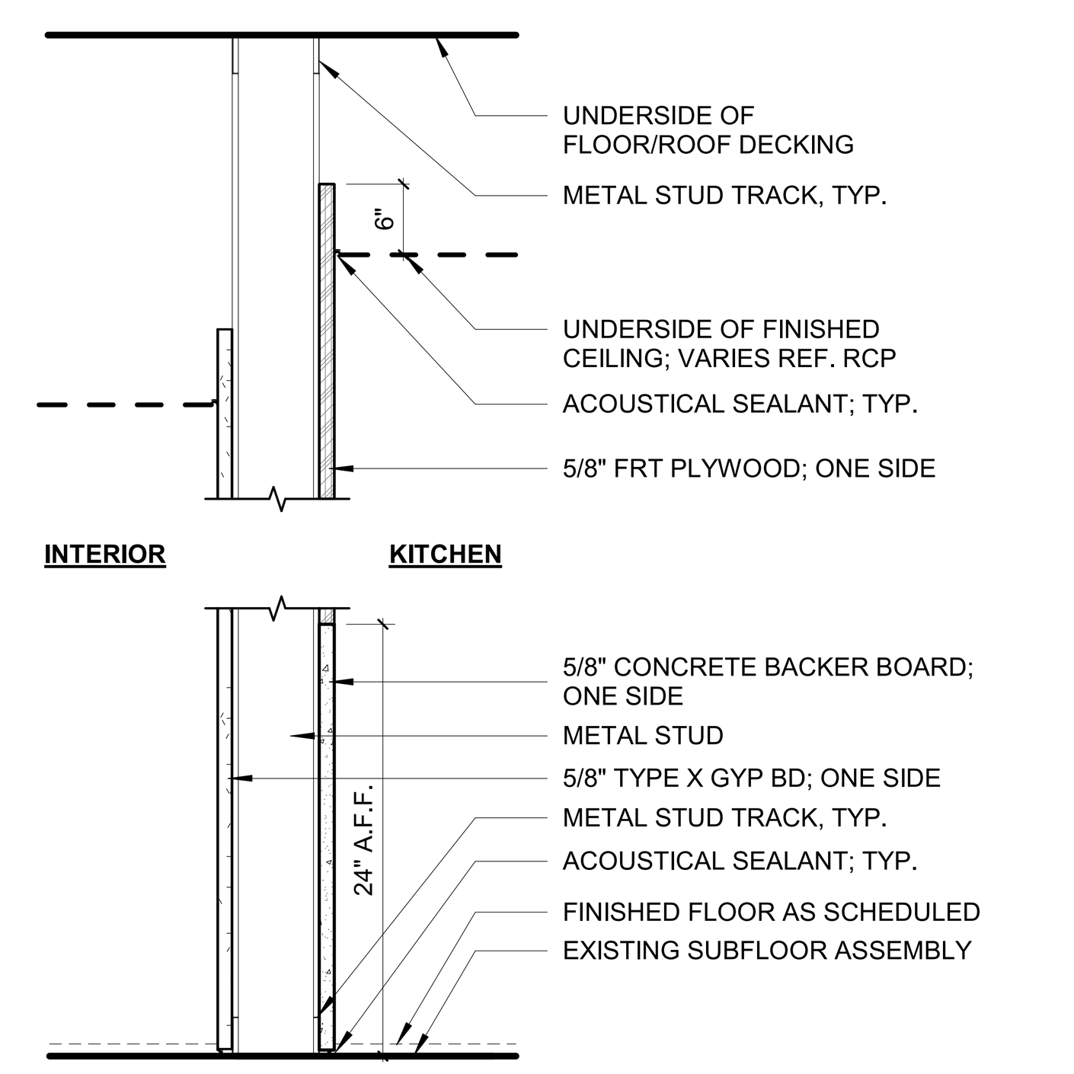
G05 WALL TYPE W7 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W8.0	3 5/8"	N/A	N/A	N/A

1 1/2" = 1'-0"

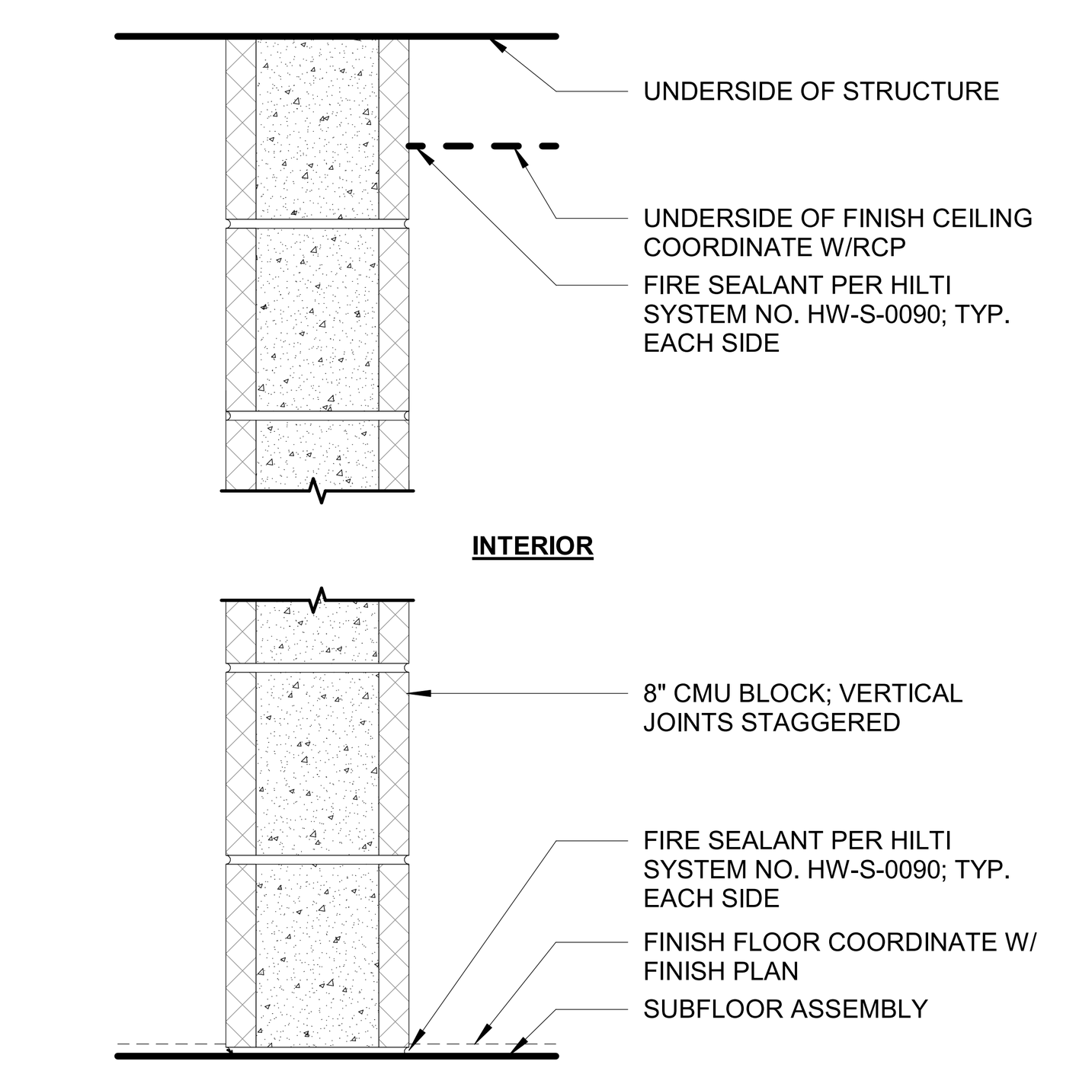
G09 WALL TYPE W8 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W9.0	3 5/8"	N/A	N/A	N/A
	W9.1	6"	N/A	N/A	N/A

1 1/2" = 1'-0"

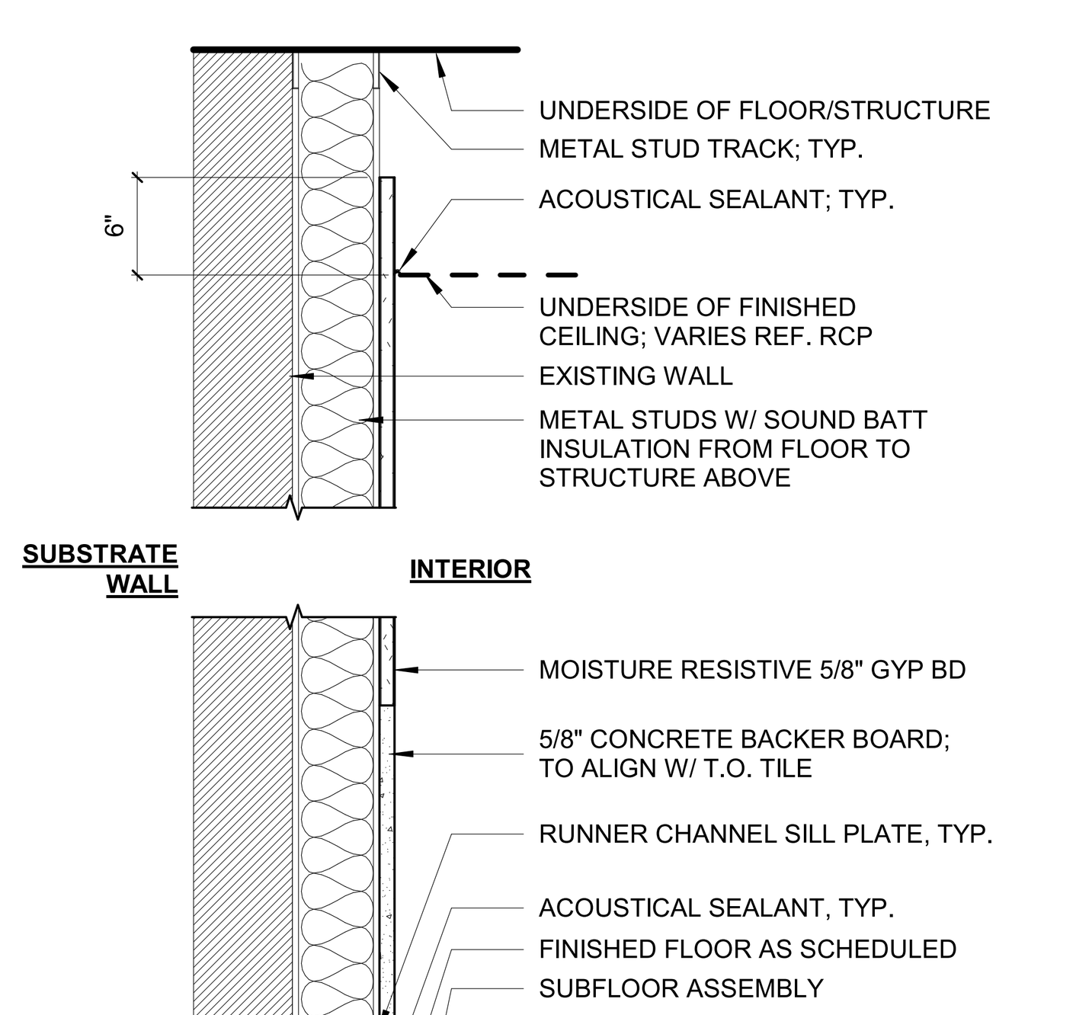
G13 WALL TYPE W9 - METAL



MASONRY WALL		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W10.0.R	8"	2 HR	U905	48

1 1/2" = 1'-0"

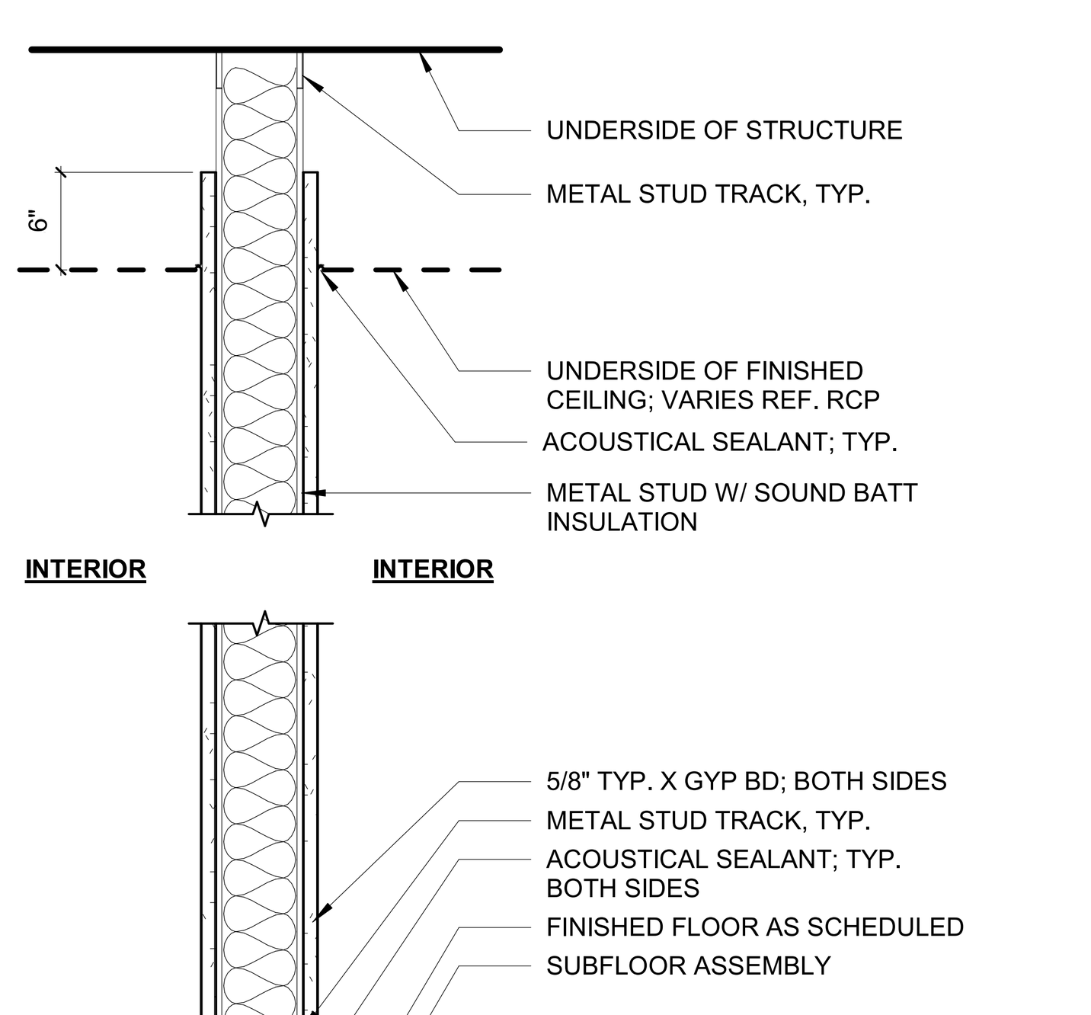
G17 WALL TYPE W10-CMU



INTERIOR FURRING METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	F1.0	3 5/8"	N/A	N/A	N/A

1 1/2" = 1'-0"

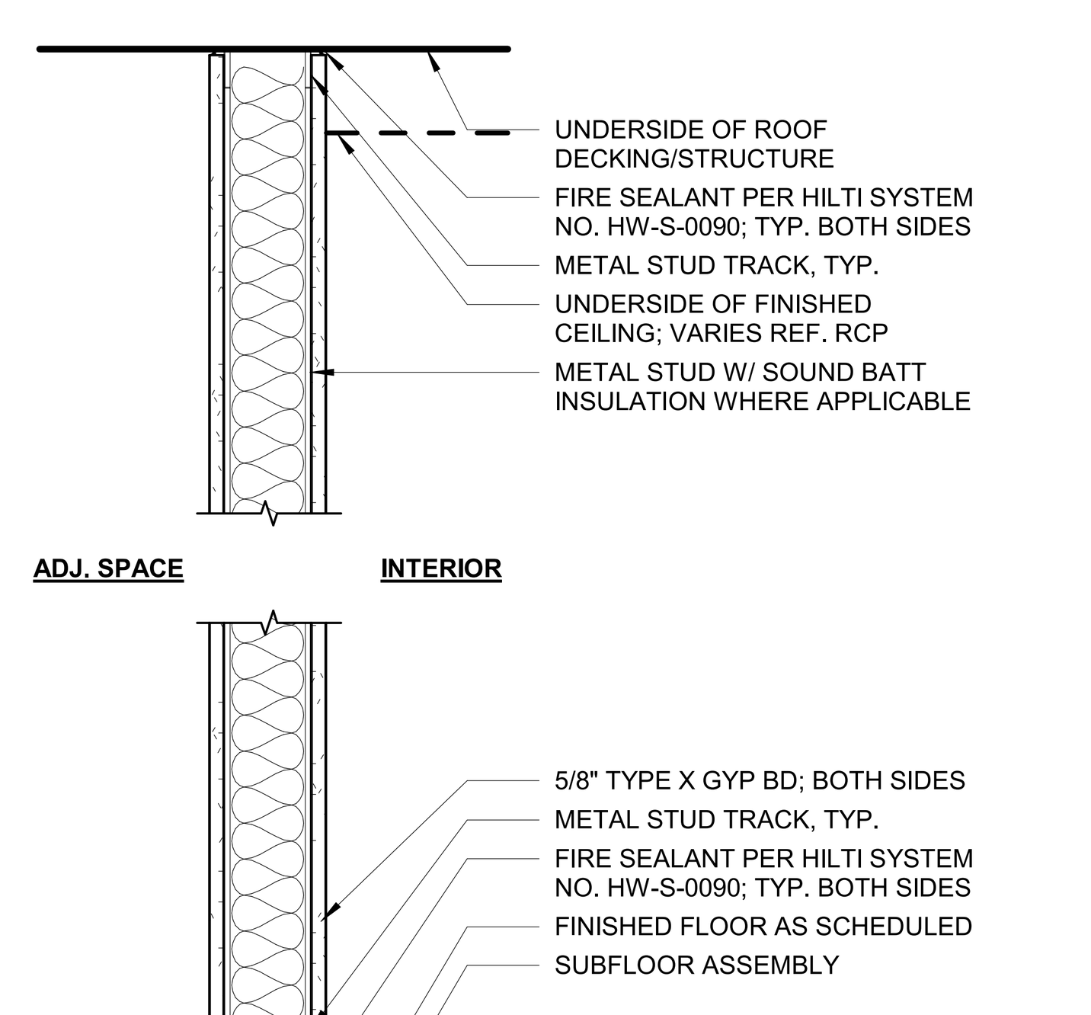
A01 WALL TYPE F1 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W1.0	3 5/8"	N/A	N/A	N/A

1 1/2" = 1'-0"

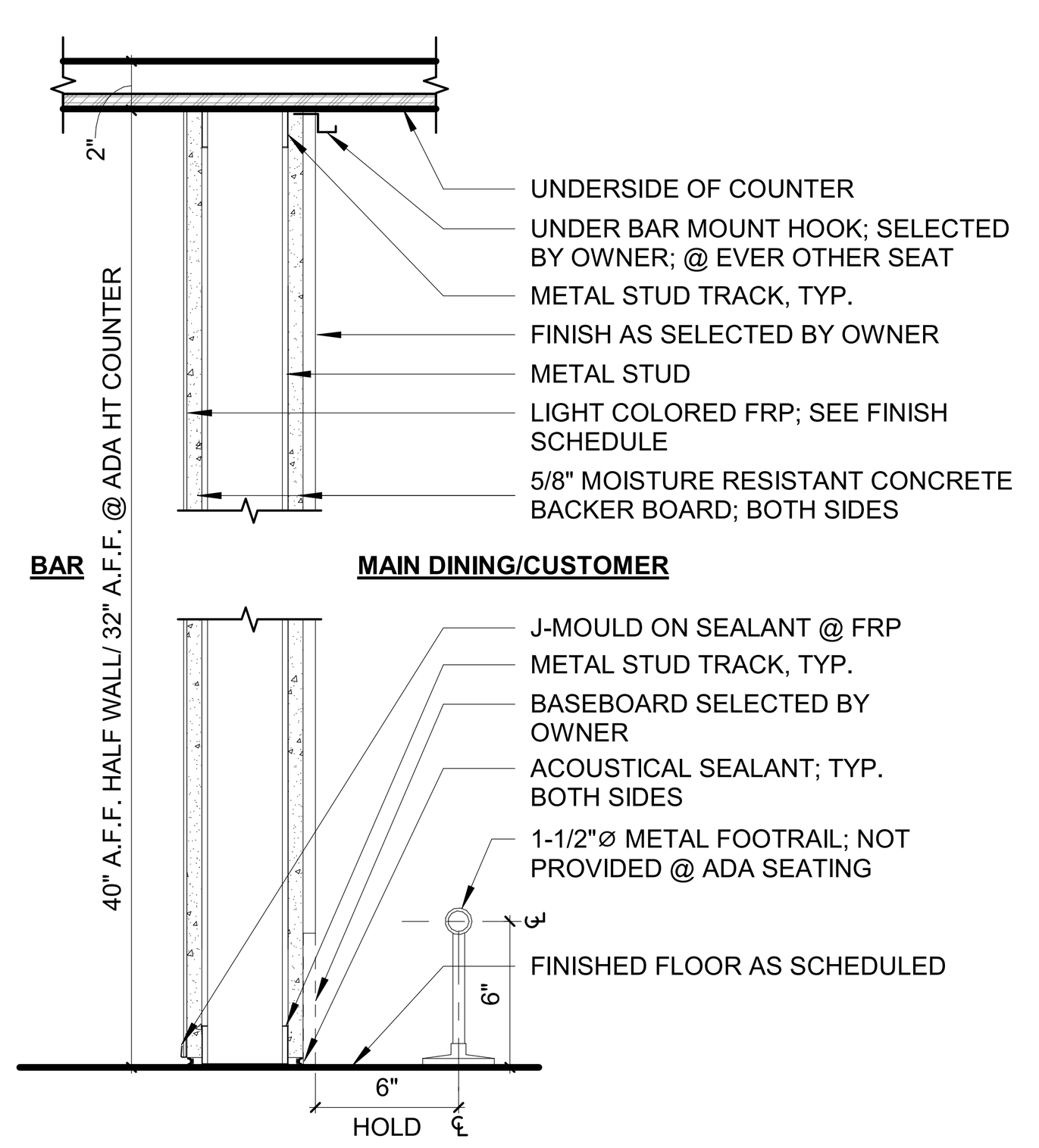
A05 WALL TYPE W1 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W2.0R	3 5/8"	1 HR	U465	N/A
	W2.1R	6"	1 HR	U465	N/A

1 1/2" = 1'-0"

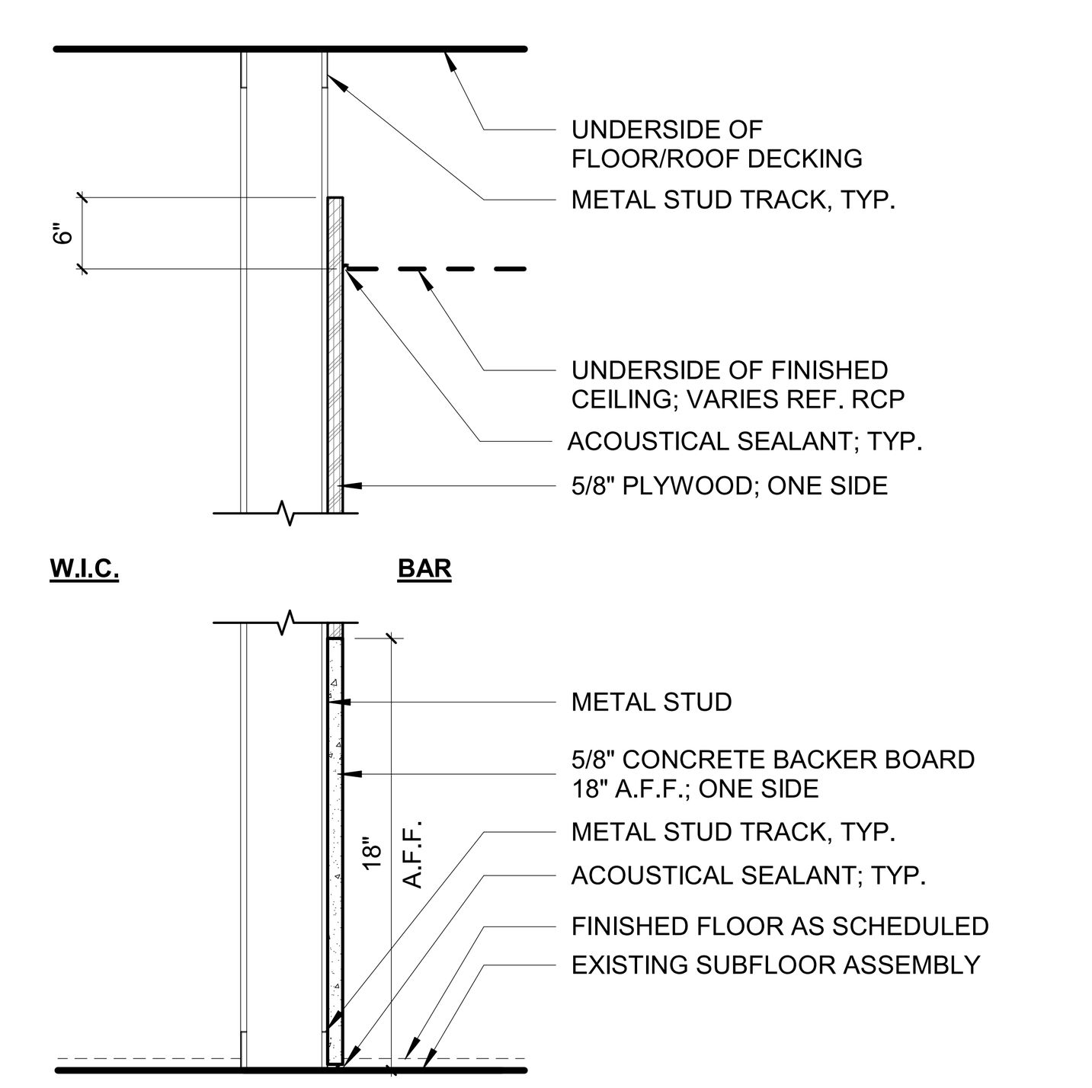
A09 WALL TYPE W2 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W3.0	3 5/8"	N/A	N/A	N/A
	W3.1	6"	N/A	N/A	N/A

1 1/2" = 1'-0"

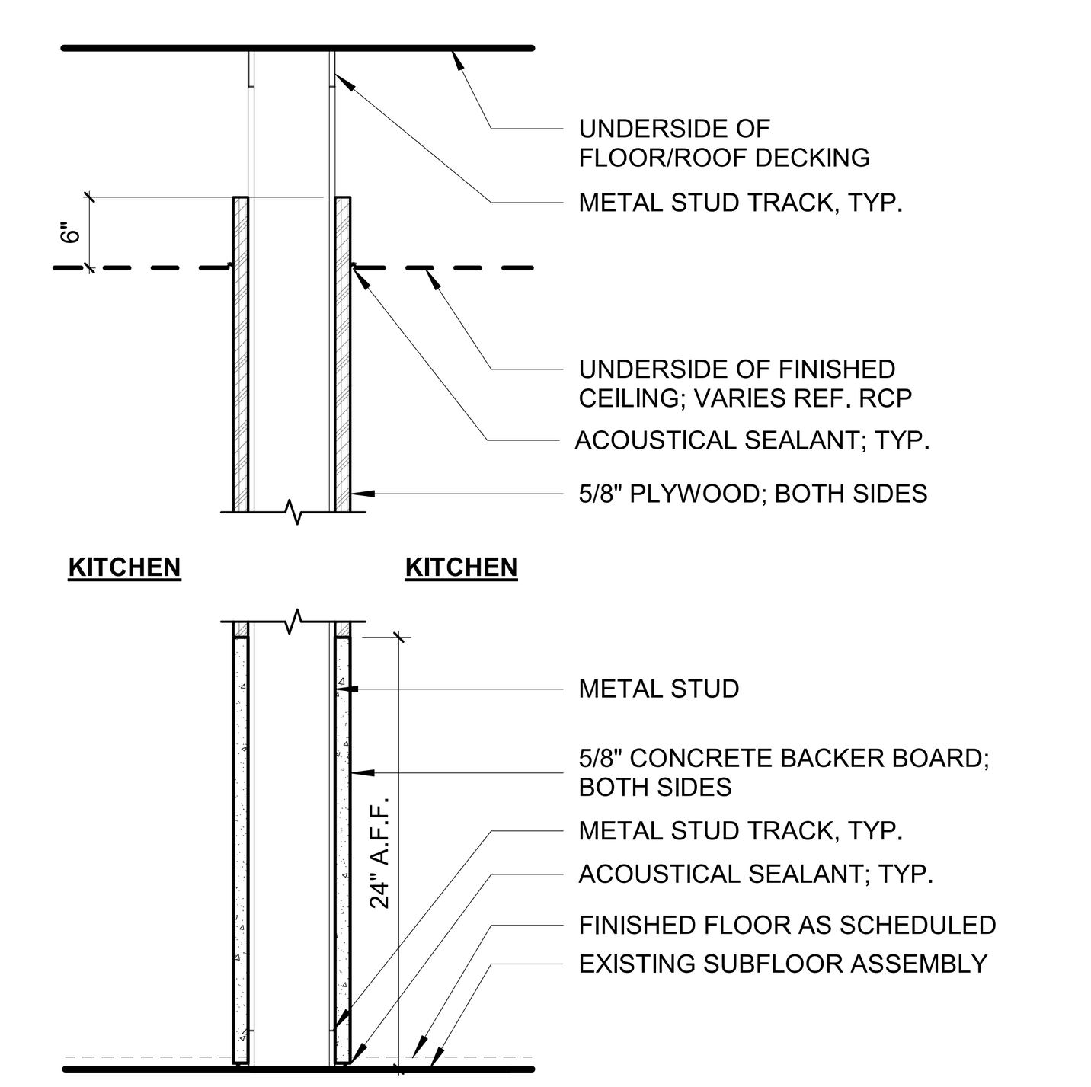
A13 WALL TYPE W3 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W4.0	3 5/8"	N/A	N/A	N/A

1 1/2" = 1'-0"

A17 WALL TYPE W4 - METAL



INTERIOR WALL METAL FRAMING		STRUCTURE WIDTH	FIRE RATING	TEST NUMBER	STC RATING
	W5.0	3 5/8"	N/A	N/A	N/A

1 1/2" = 1'-0"

A21 WALL TYPE W5 - METAL

La2
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STATE OF GEORGIA REGISTERED ARCHITECT ANDREW B. LYNCH CERTIFICATE NO.

WALL TYPES

Status	100% CDS
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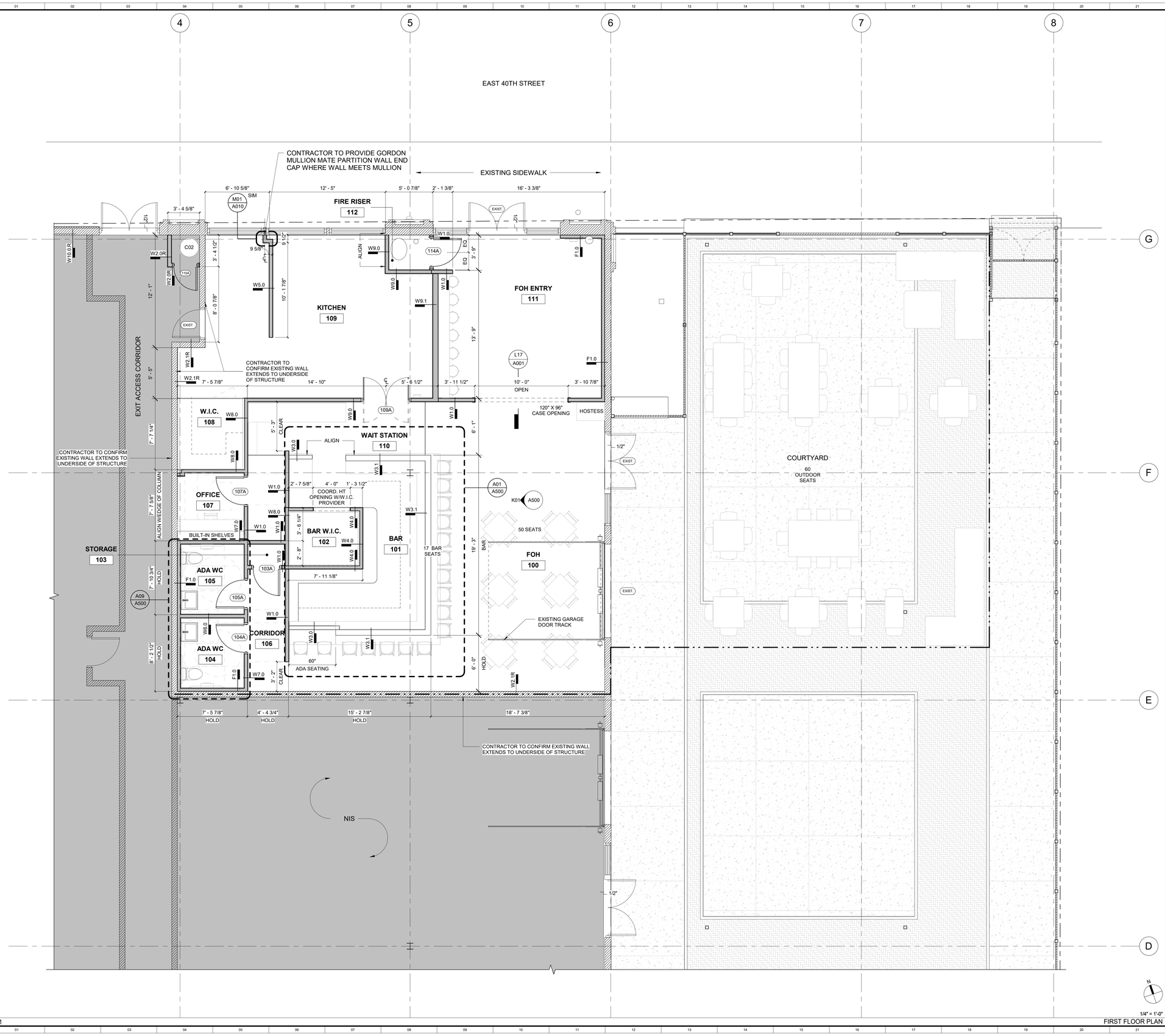

GENERAL FLOOR PLAN NOTES

1. SEE LIFE SAFETY PLANS FOR WALL, FLOOR/CEILING, AND SHAFT FIRE RATED ASSEMBLY LOCATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. PATCH AND REPAIR ALL INCIDENTAL FLOOR HOLES WITH MATERIAL TO MATCH. PATCH ALL CONCRETE FLOORS TO CREATE SMOOTH UNIFORM FINISH TO ACCEPT FINISH FLOOR MATERIAL. REFER TO SPECIFICATIONS FOR TECHNICAL NOTES ON REPAIR,REFINISHING, AND CLEANING.
4. PATCH, SCRAPE, SAND AND PAINT ALL INTERIOR FINISHED SURFACES INCLUDING GYP. BOARD, CEILINGS, WINDOWS, CEILING, TRIM, RAILINGS, FLOORS, ETC. TO ALLOW FOR SMOOTH UNIFORM FINISH WITHIN THE PROJECT AREA. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED INTERIOR SURFACES. ARCHITECT TO SELECT ALL COLORS. SEE SPECIFICATION FOR PAINTING INSTRUCTIONS.
5. CONTRACTOR TO PROVIDE AND INSTALL ALL ACCESS DOORS WHERE REQUIRED FOR ACCESS AND SERVICEABILITY OF ALL BUILDING EQUIPMENT AND SYSTEMS. ALL ACCESS PANELS IN RATED PARTITIONS TO MEET OR EXCEED THE PARTITION RATING.
6. PATCH AND REPAIR ALL VOIDS OR OPENINGS IN ALL EXPOSED WALLS TO ALLOW FOR SMOOTH UNIFORM FINISH.
7. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL WALL PENETRATIONS AND LINTEL LOCATIONS.
8. PROVIDE 1/2" VERTICAL OFFSET AT ALL EXTERIOR DOOR OPENINGS, TYP.

FLOOR PLAN LEGEND

- NEW PARTITION
- EXISTING WALL PARTITION
- PROPERTY LINE

1/4" = 1'-0" NTS

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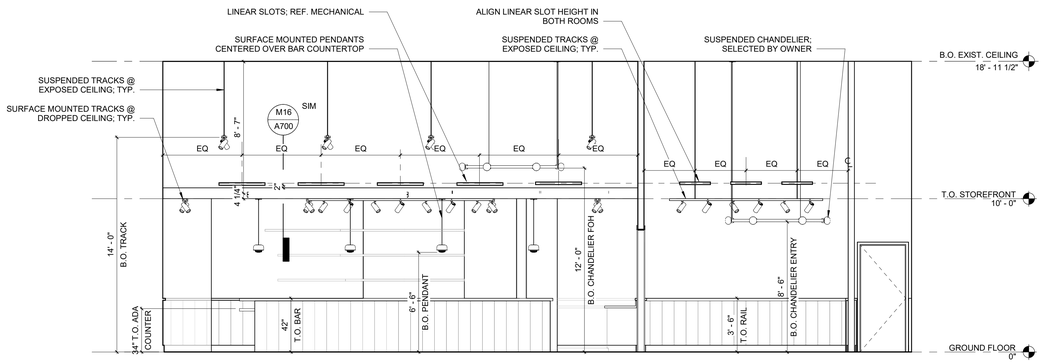


1/4" = 1'-0"

K01 ENLARGED INTERIOR ELEVATION - BAR

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH/COLOR	FURNISH	INSTALL	COMMENTS
TA-01	36" GRAB BAR	BOBRICK	B-5806 SERIES	STAINLESS STEEL	GC	GC	
TA-02	42" GRAB BAR	BOBRICK	B-5806 SERIES	STAINLESS STEEL	GC	GC	
TA-03	SURFACE MOUNTED MIRROR	BOBRICK	B-290 WELDED-FRAME MIRROR	STAINLESS STEEL FRAME	GC	GC	
TA-04	ADA PIPE WRAP	TRUEBO	LAV GUARD 2		GC		
TA-05	TOILET TISSUE DISPENSER	BRADLEY CO.	5263	STAINLESS STEEL	GC	GC	

* THE WALLS AROUND TOILETS, DRYING DEVICES, TOILET PAPER DISPENSERS AND SOAP DISPENSERS IN TOILET ROOMS SHALL BE WATER RESISTANT AND DURABLE FOR FREQUENT CLEANING. (GDPH 511-6-1-SECTION M-III)

* CONTRACTOR TO PROVIDE PT BLOCKING FOR ALL GRAB BARS AND TOILET ACCESSORIES.

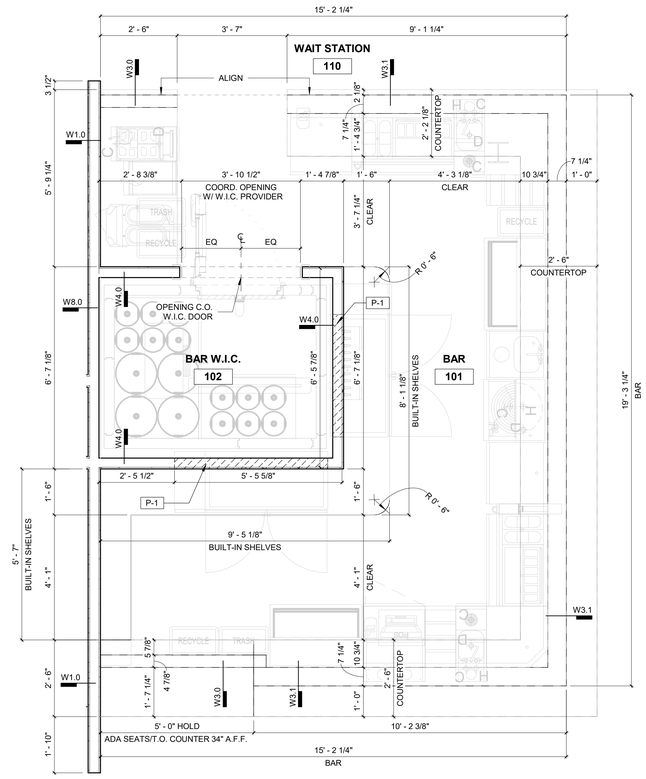
*CONTRACTOR TO INSULATE ALL PARTITION WALLS AND CEILINGS ABOVE RESTROOM.

NTS

K15 TOILET ACCESSORIES SCHEDULE

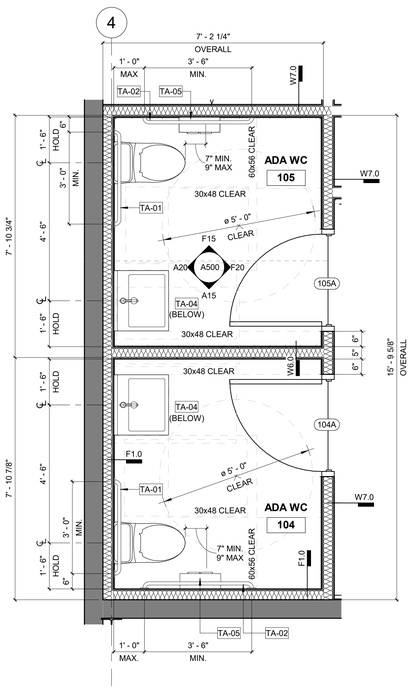
KEYNOTE LEGEND

P-1	CONTRACTOR TO LEAVE OPENING IN WALL BELOW COUNTER FOR EQUIPMENT CLEARANCE; COORDINATE EXACT DIMENSIONS WITH KITCHEN EQUIPMENT PROVIDER



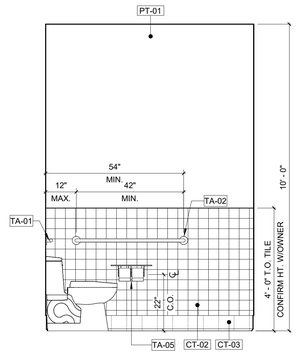
1/2" = 1'-0"

A01 ENLARGED FLOOR PLAN - BAR



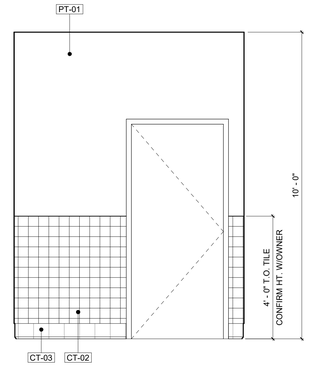
1/2" = 1'-0"

A09 ENLARGED FLOOR PLAN - ADA WC



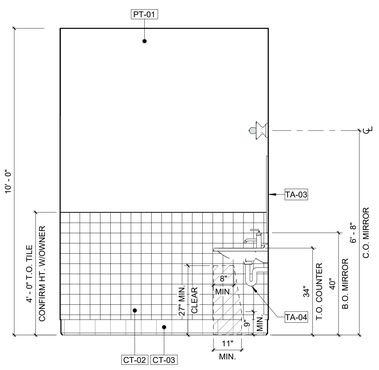
1/2" = 1'-0"

F15 ENLARGED INTERIOR ELEVATION TYP. - ADA WC 1



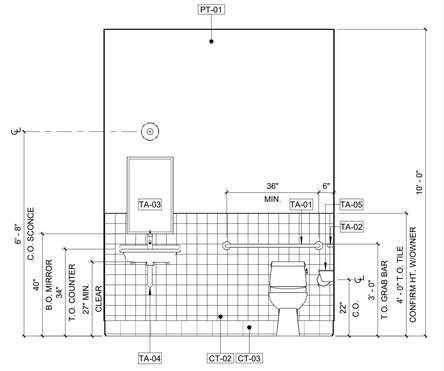
1/2" = 1'-0"

F20 ENLARGED INTERIOR ELEVATION TYP. - ADA WC 2



1/2" = 1'-0"

A15 ENLARGED INTERIOR ELEVATION TYP. - ADA WC 3



1/2" = 1'-0"

A20 ENLARGED INTERIOR ELEVATION TYP. - ADA WC 4

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Revisions

No	Date	Description

STATE OF GEORGIA
REGISTERED ARCHITECT

ENLARGED PLANS & ELEVATIONS

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

A500

2/14/2025 4:25:47 PM

EQUIPMENT SCHEDULE

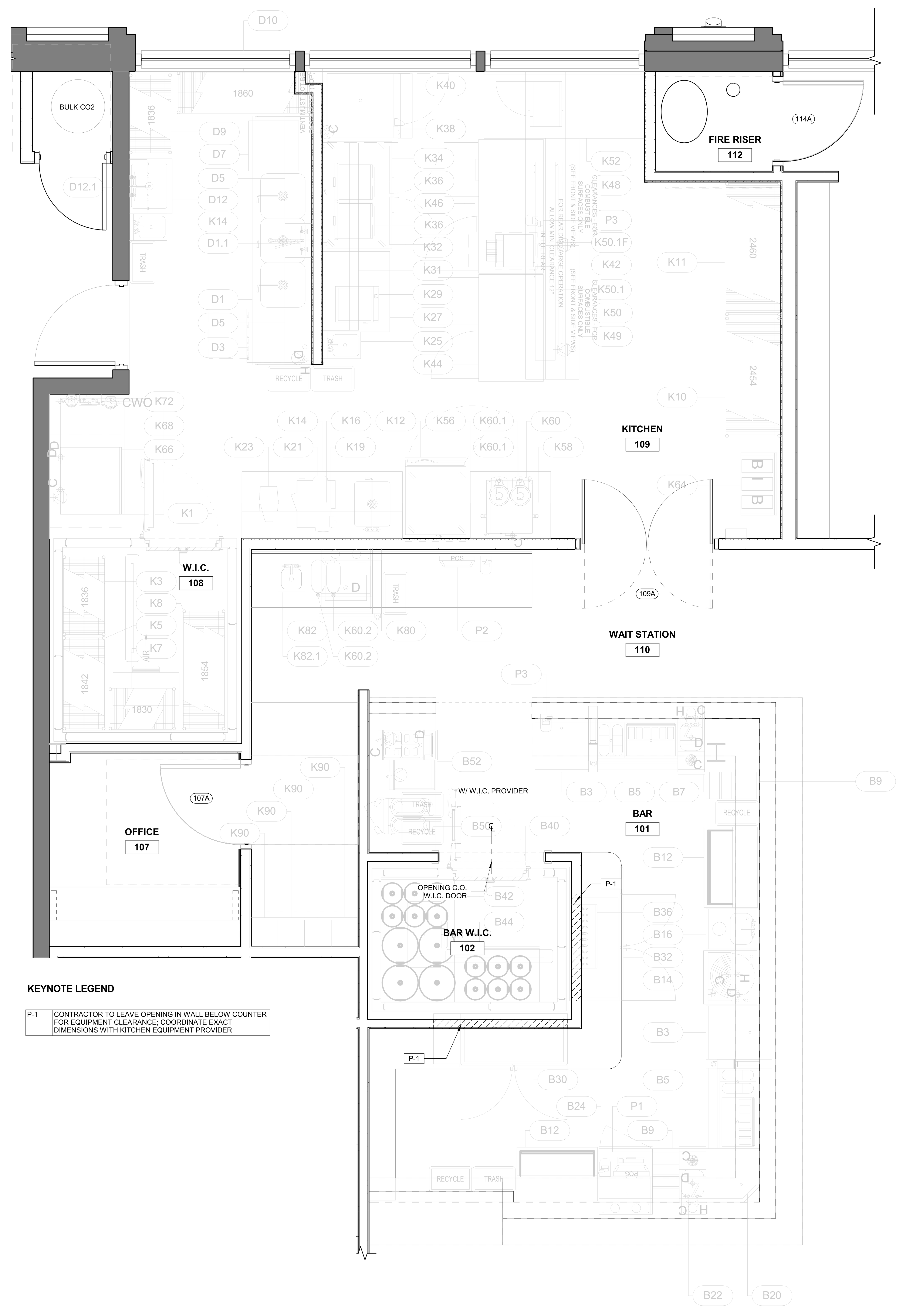
ITEMNO	QUANTITY	CATEGORY	MFR	EQUIPMENT REMARKS	ITEMNO
B3	2	GLASS RACK	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B3
B5	2	ICE BIN WITH BOTTLE WELLS	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B5
	2		KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	
	2	UNDERBAR ICE BIN/COCKTAIL STATION, PARTS & ACCESSORIES	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	
	2	SPEED RAIL / RACK	KROWNE		
B7	1	UNDERBAR SINK UNITS	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B7
	1		KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	
	1	UNDERBAR EQUIPMENT SPLASH	KROWNE		
B9	2	BOTTLE STORAGE UNIT	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B9
B12	2	BOTTLE COOLER	KROWNE		B12
B14	1	GLASSWASHER, UNDERCOUNTER / UNDERBAR	GLASTENDER	BY LEASE / VERIYF SPECIFICATIONS	B14
B16	1	HAND SINK	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B16
B20	1	CORNER ANGLE FILLER	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B20
B22	1	UNDERBAR SINK UNITS	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B22
	1		KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	
B24	1	WORK CENTER	KROWNE	WALL BACKING REQUIRED 0" - 40" AFF.	B24
B30	1	BACK BAR CABINET, REFRIGERATED	KROWNE	FINISH TBD / SOLID OR GLASS DOORS?	B30
	1	CASTERS	KROWNE		
B32	1	BACK BAR CABINET, REFRIGERATED	KROWNE	FINISH TBD / SOLID OR GLASS DOORS?	B32
	1	CASTERS	KROWNE		
B36	1	DRAFT BEER SYSTEM, SHANK THRU, 10 TAP	CUSTOM		B36
B40	1	WALK-IN BEVERAGE COOLER	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40
B40.1	1	WALK-IN BEV COOLER CONDENSER	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40.1
B40.2	1	WALK-IN BEV COOLER EVAPORATOR	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40.2
B42	1	KEG STORAGE RACK	CHOICE EQUIPMENT		B42
B44	1	KEG STORAGE RACK	CHOICE EQUIPMENT		B44
B50	1	FROZEN DRINK MACHINE, NON-CARBONATED, BOWL TYPE	BUNN		B50
B52	1	ESPRESSO CAPPUCCINO MACHINE	FRANKE COFFEE SYSTEMS	WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	B52
D1	1	THREE (3) COMPARTMENT SINK	JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	D1
	1		JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	
	1		JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	
	3	DRAIN, LEVER / TWIST WASTE	KROWNE		
D1.1	1	PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET	KROWNE		D1.1
D3	1	DISHWASHER, UNDERCOUNTER	CMA DISHMACHINES	BY LEASE / VERIFY SPECIFICATIONS	D3
D5	2	OVERSHELF	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	D5
D7	1	RACK DOLLY	CAMBRO	MOBILE	D7
D9	1	WIRE SHELVING	OLYMPIC		D9
D10	1	WIRE SHELVING	OLYMPIC		D10
D12	1	MOP SINK	JOHN BOOS	WALL BACKING REQUIRED 0" - 48" AFF.	D12
	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	
D12.1	1	SERVICE FAUCET	KROWNE		D12.1
K1	1	WALK-IN COOLER	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1
K1.1	1	WALK-IN COOLER CONDENSER	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1.1
K1.3	1	WALK-IN COOLER EVAPORATOR	CUSTOM	LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1.3
K3	1	WIRE SHELVING	OLYMPIC		K3
K5	1	WIRE SHELVING	OLYMPIC		K5
K7	1	WIRE SHELVING	OLYMPIC		K7
K8	1	WIRE SHELVING	OLYMPIC		K8
K10	1	WIRE SHELVING	OLYMPIC		K10
K11	1	WIRE SHELVING	OLYMPIC		K11
K12	1	REACH-IN FREEZER	BEVERAGE AIR		K12
K14	1	HAND SINK	KROWNE	WALL BACKING REQUIRED 24" - 96" AFF.	K14
K14	1	WORK TABLE, WITH PREP SINK(S)	JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	K14
	1	DRAIN, LEVER / TWIST WASTE	KROWNE		
K16	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	K16
K19	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	K19
K21	1	FOOD SLICER, ELECTRIC	GLOBE (MIDDLEBY)		K21
K23	1	FOOD PROCESSOR, BENCHTOP / COUNTERTOP	ROBOT COUPE		K23
K25	1	HAND SINK	KROWNE	WALL BACKING REQUIRED 24" - 96" AFF.	K25
K27	1	WORK TABLE, 36", STAINLESS STEEL TOP	JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	K27
K29	1	INDUCTION RANGE, COUNTERTOP	VOLLRATH		K29
K31	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	K31
K32	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	K32
K34	1	REFRIGERATED WORK TOP	BEVERAGE AIR		K34
K36	2	PANINI GRILL	WARING		K36
K38	2	CONVECTION OVEN, ELECTRIC	MOFFAT		K38
	2	ELECTRICAL CORD	MOFFAT		
	1	STACKING KIT	MOFFAT		
K40	1	MICROWAVE OVEN	PANASONIC		K40
K42	1	CONVEYOR TOASTER	HATCO		K42
K44	1	SANDWICH / SALAD PREPARATION REFRIGERATOR	BEVERAGE AIR		K44
K46	1	SANDWICH / SALAD PREPARATION REFRIGERATOR	BEVERAGE AIR		K46
K48	1	DISH CABINET	JOHN BOOS		K48
K49	1	DISH CABINET	JOHN BOOS		K49
K50	1	OVERSHELF, PASS THRU, CEILING MOUNTED	JOHN BOOS	STRUCTURAL SUPPORT IN CEILING TO BE SUPPLIED BY CONTRACTOR / SEE SUBMITTALS FOR SPECIFICATIONS AND DETAILS	K50
K50.1	1	HEAT LAMP	HATCO		K50.1
K50.1F	1	HEAT LAMP	HATCO	FUTURE / VERIFY SPECIFICATIONS	K50.1F
K52	1	WORK TABLE, 72", STAINLESS STEEL TOP	JOHN BOOS		K52
K56	1	WORK TABLE, 36", STAINLESS STEEL TOP	JOHN BOOS	WALL BACKING REQUIRED 24" - 48" AFF.	K56
K58	1	SHELVING, WALL MOUNTED	JOHN BOOS	WALL BACKING REQUIRED 48" - 96" AFF.	K58
K60	1	COFFEE TEA BREWER	BUNN	BY VENDOR / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	K60
K60.1	2	THERMAL SERVER, BREW-THRU	BUNN	BY VENDOR / VERIFY SPECIFICATIONS	K60.1
K60.2	2	TEA / COFFEE DISPENSER	BUNN	BY VENDOR / VERIFY SPECIFICATIONS	K60.2
K64	1	BAG IN THE BOX	CUSTOM FAB	BY VENDOR / VERIFY SPECIFICATIONS	K64
K66	1	ICE MAKER, CUBE-STYLE	HOSHIZAKI	BY LEASE / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	K66
	1		HOSHIZAKI	BY LEASE / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	
K68	1	ICE BIN FOR ICE MACHINES	HOSHIZAKI	BY LEASE / VERIFY SPECIFICATIONS	K68
K72	1	WATER FILTRATION SYSTEM, FOR MULTIPLE APPLICATIONS	EVERPURE	CENTRALIZED FILTRATION SYSTEM / WALL BACKING REQUIRED 48" - 96" AFF.	K72
K80	2	ICE BIN	KROWNE		K80
	2	SODA SYSTEM, PARTS & FITTINGS	KROWNE		
K82	1	DECK MOUNT FAUCET	KROWNE		K82
K82.1	1	DROP-IN SINK	JOHN BOOS		K82.1
K90	4	LOCKER	WINHOLT	WALL BACKING REQUIRED 0" - 96" AFF.	K90
P1	1	POINT OF SALE	CUSTOM FAB	BY VENDOR / VERIFY SPECIFICATIONS	P1
P2	2	POINT OF SALE	CUSTOM FAB	BY VENDOR / VERIFY SPECIFICATIONS	P2
P3	2	PRINTER	CUSTOM	BY VENDOR / VERIFY SPECIFICATIONS	P3

UTILITY SCHEDULE

				ELECTRICAL									PLUMBING								
ITEMNO	QUANTITY	CATEGORY	MFR	VOLTAGE	PHASE	AMPS	CYCLE	HP	KW	CONNECTIONTYPE	NEMA	ELECTRICALCONNECTIONHEIGHT	COLD WATER (IN)	COLD WATER CONN. HEIGHT(IN)	HOT WATER (IN)	HOT WATER CONN. HEIGHT(IN)	INDIRECT WASTE SIZE	DIRECT WASTE SIZE	DIRECT WASTE CONN. HEIGHT(IN)	EQUIPMENT REMARKS	ITEMNO
B3	2	GLASS RACK	KROWNE														1"			WALL BACKING REQUIRED 0" - 40" AFF.	B3
B5	2	ICE BIN WITH BOTTLE WELLS	KROWNE														1"			WALL BACKING REQUIRED 0" - 40" AFF.	B5
	2		KROWNE														1/2"			WALL BACKING REQUIRED 0" - 40" AFF.	
	2	UNDERBAR ICE BIN/COCKTAIL STATION, PARTS & ACCESSORIES	KROWNE																	WALL BACKING REQUIRED 0" - 40" AFF.	
	2	SPEED RAIL / RACK	KROWNE																		
B7	1	UNDERBAR SINK UNITS	KROWNE										1/2"							WALL BACKING REQUIRED 0" - 40" AFF.	B7
	1		KROWNE										1/2"	18"	1/2"	18"	1-1/2"			WALL BACKING REQUIRED 0" - 40" AFF.	
	1	UNDERBAR EQUIPMENT SPLASH	KROWNE																		
B9	2	BOTTLE STORAGE UNIT	KROWNE																	WALL BACKING REQUIRED 0" - 40" AFF.	B9
B12	2	BOTTLE COOLER	KROWNE	115	1	1.53	60	0.2		8'-0" PLUG-IN CORD	5-15P	38 1/2"									B12
B14	1	GLASSWASHER, UNDERCOUNTER / UNDERBAR	GLASTENDER										1/2"	18"	1/2"	18"	1-1/2"			BY LEASE / VERIYF SPECIFICATIONS	B14
	1		GLASTENDER	120	1	3.5	60			CORD & PLUG	5-15P	24"									
B16	1	HAND SINK	KROWNE										1/2"	18"	1/2"	18"	1-1/2"			WALL BACKING REQUIRED 0" - 40" AFF.	B16
B20	1	CORNER ANGLE FILLER	KROWNE														1"			WALL BACKING REQUIRED 0" - 40" AFF.	B20
B22	1	UNDERBAR SINK UNITS	KROWNE										1/2"							WALL BACKING REQUIRED 0" - 40" AFF.	B22
	1		KROWNE										1/2"	18"	1/2"	18"	1-1/2"			WALL BACKING REQUIRED 0" - 40" AFF.	
B24	1	WORK CENTER	KROWNE	120	1	15.0	60			CORD & PLUG	5-15P	16"								WALL BACKING REQUIRED 0" - 40" AFF.	B24
B30	1	BACK BAR CABINET, REFRIGERATED	KROWNE	115	1	2.2	60	0.25		8'-0" PLUG-IN CORD	5-15P	24"								FINISH TBD / SOLID OR GLASS DOORS?	B30
	1	CASTERS	KROWNE																		
B32	1	BACK BAR CABINET, REFRIGERATED	KROWNE	115	1	2.2	60	0.25		8'-0" PLUG-IN CORD	5-15P	24"								FINISH TBD / SOLID OR GLASS DOORS?	B32
	1	CASTERS	KROWNE																		
B36	1	DRAFT BEER SYSTEM, SHANK THRU, 10 TAP	CUSTOM														1"				B36
B40	1	WALK-IN BEVERAGE COOLER	CUSTOM							SUBMITTAL		SUBMITTAL								LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40
B40.1	1	WALK-IN BEV COOLER CONDENSER	CUSTOM							SUBMITTAL		SUBMITTAL								LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40.1
B40.2	1	WALK-IN BEV COOLER EVAPORATOR	CUSTOM							SUBMITTAL		SUBMITTAL					SUBMITTAL			LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	B40.2
B42	1	KEG STORAGE RACK	CHOICE EQUIPMENT																		B42
B44	1	KEG STORAGE RACK	CHOICE EQUIPMENT																		B44
B50	1	FROZEN DRINK MACHINE, NON-CARBONATED, BOWL TYPE	BUNN	120	1	12	60		1.44	CORD & PLUG	5-15P	52"									B50
B52	1	ESPRESSO CAPPUCCINO MACHINE	FRANKE COFFEE SYSTEMS	208	1	30	60				L6-30P	52"	1/2"	48"						WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	B52
	1		FRANKE COFFEE SYSTEMS	110	1		60			CORD & PLUG	5-15P	24"									
D1	1	THREE (3) COMPARTMENT SINK	JOHN BOOS														(3) 3-1/2"			WALL BACKING REQUIRED 24" - 48" AFF.	D1
	1		JOHN BOOS																	WALL BACKING REQUIRED 24" - 48" AFF.	
	1		JOHN BOOS																	WALL BACKING REQUIRED 24" - 48" AFF.	
	3	DRAIN, LEVER / TWIST WASTE	KROWNE														1-1/2" TO 2"				
D1.1	1	PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET	KROWNE										1/2"	18"	1/2"	18"					D1.1
D3	1	DISHWASHER, UNDERCOUNTER	CMA DISHMACHINES	208	1	30.0	60	1		DIRECT		24"			1/2"	18"	1"			BY LEASE / VERIFY SPECIFICATIONS	D3
D5	2	OVERSHELF	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	D5
D7	1	RACK DOLLY	CAMBRO																	MOBILE	D7
D9	1	WIRE SHELVING	OLYMPIC																		D9
D10	1	WIRE SHELVING	OLYMPIC																		D10
D12	1	MOP SINK	JOHN BOOS															3-1/2"	4"	WALL BACKING REQUIRED 0" - 48" AFF.	D12
	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	
D12.1	1	SERVICE FAUCET	KROWNE										1/2"	36"	1/2"	36"					D12.1
K1	1	WALK-IN COOLER	CUSTOM							SUBMITTAL		SUBMITTAL								LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1
K1.1	1	WALK-IN COOLER CONDENSER	CUSTOM							SUBMITTAL		SUBMITTAL								LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1.1
K1.3	1	WALK-IN COOLER EVAPORATOR	CUSTOM							SUBMITTAL		SUBMITTAL					SUBMITTAL			LOCATION OF REMOTE CONDENSER TO BE DETERMINED BY ENGINEERING / SEE REFRIGERATION SUBMITTALS FOR SPECIFICATIONS AND DETAILS. ROOF RAILS TO BE SUPPLIED BY GENERAL CONTRACTOR. / QUICK DISCONNECTS TO BE INSTALLED TO MEET LOCAL CODE	K1.3
K3	1	WIRE SHELVING	OLYMPIC																		K3
K5	1	WIRE SHELVING	OLYMPIC																		K5
K7	1	WIRE SHELVING	OLYMPIC																		K7
K8	1	WIRE SHELVING	OLYMPIC																		K8
K10	1	WIRE SHELVING	OLYMPIC																		K10
K11	1	WIRE SHELVING	OLYMPIC																		K11
K12	1	REACH-IN FREEZER	BEVERAGE AIR	115	1	7.5	60	3/4		CORD & PLUG	5-15P	24"									K12
K14	1	HAND SINK	KROWNE										1/2"	18"	1/2"	18"		1-1/2"	15"	WALL BACKING REQUIRED 24" - 96" AFF.	K14
K14	1	WORK TABLE, WITH PREP SINK(S)	JOHN BOOS										1/2"	18"	1/2"	18"				WALL BACKING REQUIRED 24" - 48" AFF.	K14
	1	DRAIN, LEVER / TWIST WASTE	KROWNE														1-1/2" TO 2"				
K16	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	K16
K19	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	K19
K21	1	FOOD SLICER, ELECTRIC	GLOBE (MIDDLEBY)	115	1	4.8	60	1/3		CORD & PLUG	5-15P	48"									K21
K23	1	FOOD PROCESSOR, BENCHTOP / COUNTERTOP	ROBOT COUPE	120	1	7.0	60	1		CORD & PLUG	5-15P	48"									K23
K25	1	HAND SINK	KROWNE										1/2"	18"	1/2"	18"		1-1/2"	15"	WALL BACKING REQUIRED 24" - 96" AFF.	K25
K27	1	WORK TABLE, 36", STAINLESS STEEL TOP	JOHN BOOS																	WALL BACKING REQUIRED 24" - 48" AFF.	K27
K29	1	INDUCTION RANGE, COUNTERTOP	VOLLRATH	208-240	1	12.5	50/60		3	CORD & PLUG	6-20P	48"									K29
K31	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	K31
K32	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	K32
K34	1	REFRIGERATED WORK TOP	BEVERAGE AIR	115	1	2.2	60	1/6		CORD & PLUG	5-15P	24"									K34
K36	2	PANINI GRILL	WARING	120	1	15.0				CORD & PLUG	5-15P	48"									K36
K38	2	CONVECTION OVEN, ELECTRIC	MOFFAT	208	1	28.0	60		5.8	DIRECT			3/4"	(1) 30", (1) 48"							K38
	2	ELECTRICAL CORD	MOFFAT							CORD & PLUG	6-30P	(1) 36", (1) 54"									
	1	STACKING KIT	MOFFAT																		
K40	1	MICROWAVE OVEN	PANASONIC	120	1	13.4	60		1	CORD & PLUG	5-15P	66"									K40
K42	1	CONVEYOR TOASTER	HATCO	120	1	14.9	60		1.79	CORD & PLUG	5-15P	48"									K42
K44	1	SANDWICH / SALAD PREPARATION REFRIGERATOR	BEVERAGE AIR	115	1	2	60	1/6		CORD & PLUG	5-15P	24"									K44
K46	1	SANDWICH / SALAD PREPARATION REFRIGERATOR	BEVERAGE AIR	115	1	5.4	60	1/3		CORD & PLUG	5-15P	24"									K46
K48	1	DISH CABINET	JOHN BOOS																		K48
K49	1	DISH CABINET	JOHN BOOS																		K49
K50	1	OVERSHELF, PASS THRU, CEILING MOUNTED	JOHN BOOS																	STRUCTURAL SUPPORT IN CEILING TO BE SUPPLIED BY CONTRACTOR / SEE SUBMITTALS FOR SPECIFICATIONS AND DETAILS	K50
K50.1	1	HEAT LAMP	HATCO	120	1		60		1.13	DIRECT		TBD									K50.1
K50.1F	1	HEAT LAMP	HATCO	120	1		60		1.13	DIRECT		TBD								FUTURE / VERIFY SPECIFICATIONS	K50.1F
K52	1	WORK TABLE, 72", STAINLESS STEEL TOP	JOHN BOOS																		K52
K56	1	WORK TABLE, 36", STAINLESS STEEL TOP	JOHN BOOS																	WALL BACKING REQUIRED 24" - 48" AFF.	K56
K58	1	SHELVING, WALL MOUNTED	JOHN BOOS																	WALL BACKING REQUIRED 48" - 96" AFF.	K58
K60	1	COFFEE TEA BREWER	BUNN	120/240	1	25	60		6	DIRECT		52"	3/8"	48"						BY VENDOR / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	K60
K60.1	2	THERMAL SERVER, BREW-THRU	BUNN																	BY VENDOR / VERIFY SPECIFICATIONS	K60.1
K60.2	2	TEA / COFFEE DISPENSER	BUNN																	BY VENDOR / VERIFY SPECIFICATIONS	K60.2
K64	1	BAG IN THE BOX	CUSTOM FAB							VENDOR		VENDOR	VENDOR	VENDOR						BY VENDOR / VERIFY SPECIFICATIONS	K64
K66	1	ICE MAKER, CUBE-STYLE	HOSHIZAKI	208-230	1	12.5	60			DIRECT		66"					3/8"			BY LEASE / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	K66
	1		HOSHIZAKI										1/2"	60"			3/4"			BY LEASE / VERIFY SPECIFICATIONS / WATER SUPPLIED FROM CENTRALIZED FILTRATION SYSTEM ITEM K60	
K68	1	ICE BIN FOR ICE MACHINES	HOSHIZAKI														3/4"			BY LEASE / VERIFY SPECIFICATIONS	K68
K72	1	WATER FILTRATION SYSTEM, FOR MULTIPLE APPLICATIONS	EVERPURE										1/2"	72"						CENTRALIZED FILTRATION SYSTEM / WALL BACKING REQUIRED 48" - 96" AFF.	K72
K80	2	ICE BIN	KROWNE														1/2"				K80
	2	SODA SYSTEM, PARTS & FITTINGS	KROWNE																		
K82	1	DECK MOUNT FAUCET	KROWNE										1/2"	18"	1/2"	18"					K82
K82.1	1	DROP-IN SINK	JOHN BOOS														2"				K82.1
K90	4	LOCKER	WINHOLT																	WALL BACKING REQUIRED 0" - 96" AFF.	K90
P1	1	POINT OF SALE	CUSTOM FAB							VENDOR		VENDOR								BY VENDOR / VERIFY SPECIFICATIONS	P1
P2	2	POINT OF SALE	CUSTOM FAB							VENDOR		VENDOR								BY VENDOR / VERIFY SPECIFICATIONS	P2
P3	2	PRINTER	CUSTOM							VENDOR		VENDOR								BY VENDOR / VERIFY SPECIFICATIONS	P3

1" = 100'-0"

A01 KITCHEN EQUIPMENT SCHEDULE



KEYNOTE LEGEND

P-1	CONTRACTOR TO LEAVE OPENING IN WALL BELOW COUNTER FOR EQUIPMENT CLEARANCE; COORDINATE EXACT DIMENSIONS WITH KITCHEN EQUIPMENT PROVIDER

1/2" = 1'-0"

A13 ENLARGED FLOOR PLAN - KITCHEN EQUIPMENT PLAN

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Revisions

No Date Description

ENLARGED KITCHEN EQUIPMENT PLAN

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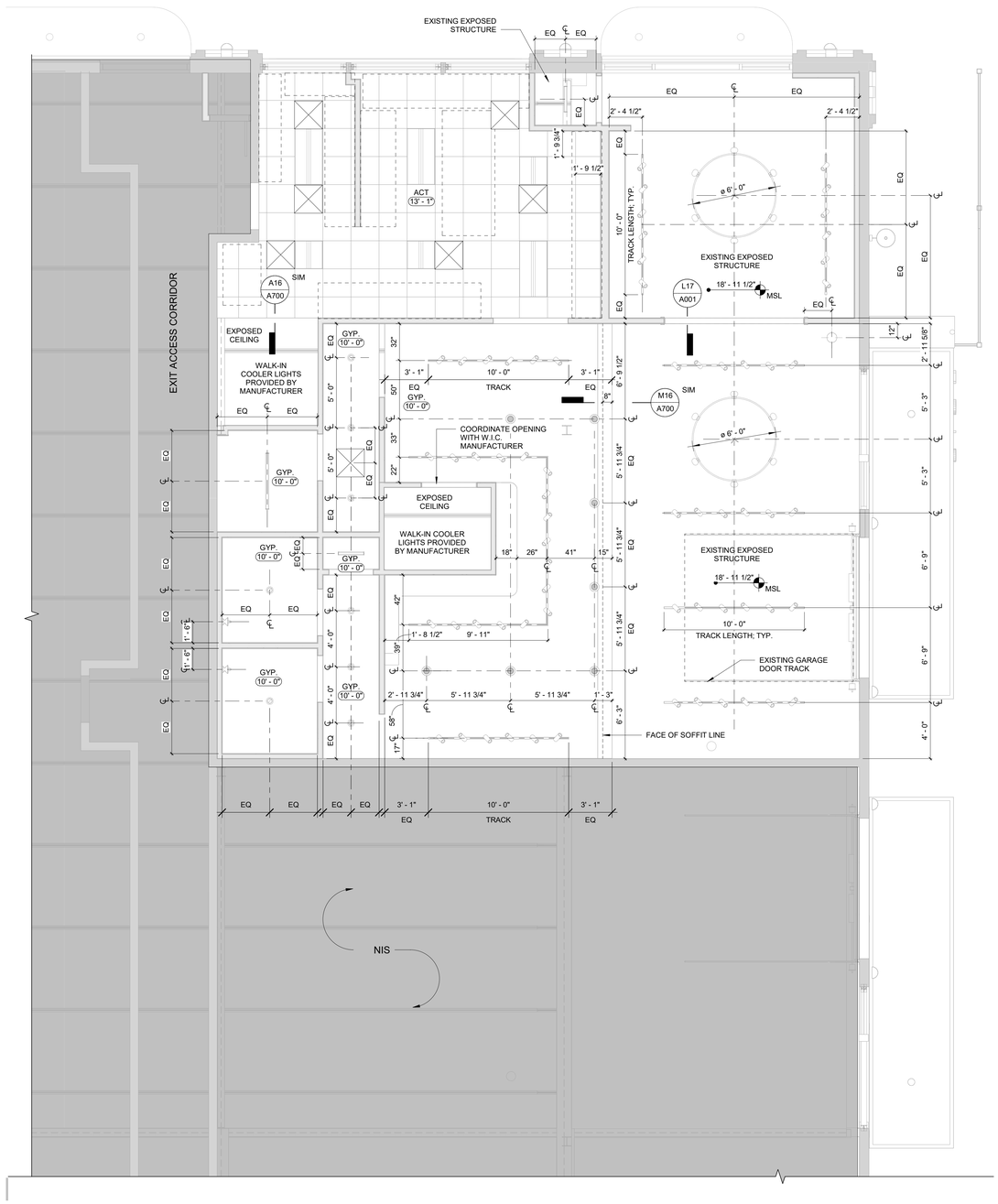
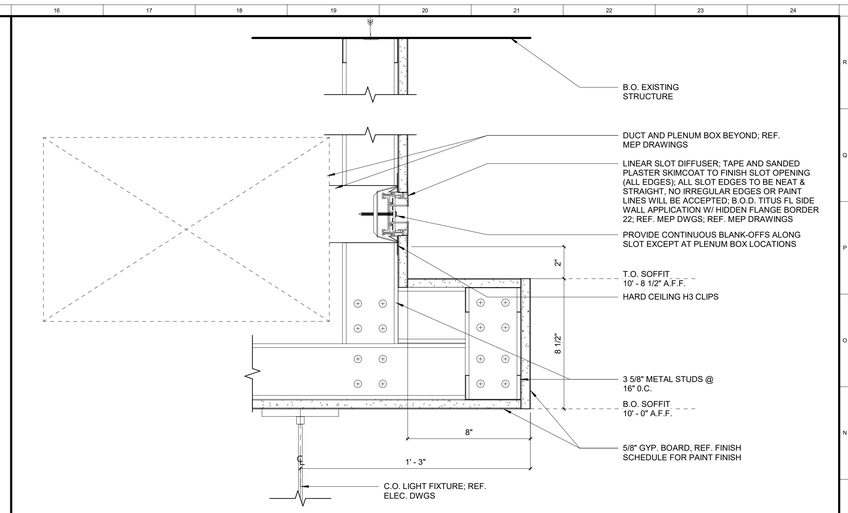


N

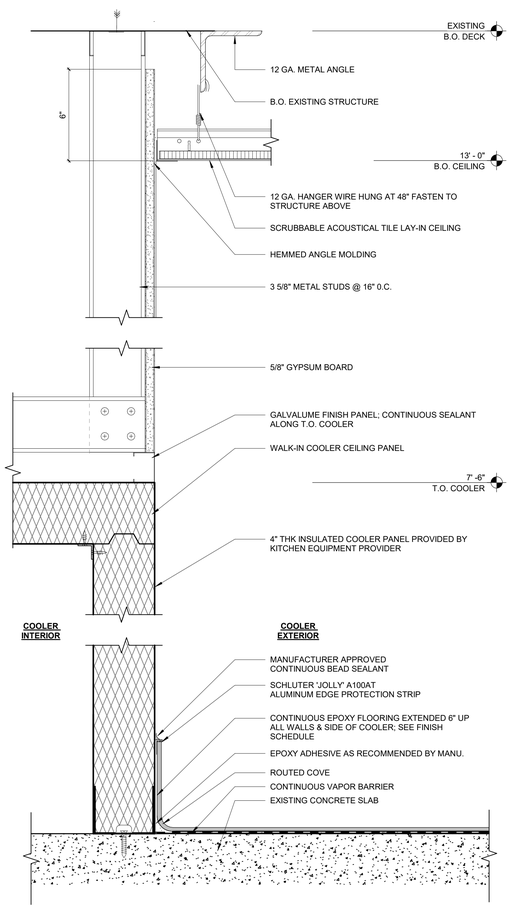
1/4" = 1'-0"

A01 FIRST FLOOR REFLECTED CEILING PLAN



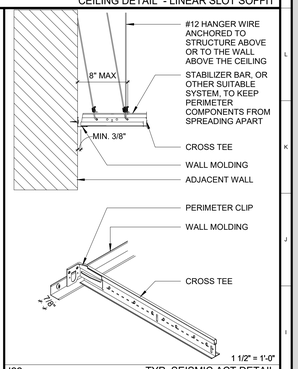
3" = 1'-0"

M16 CEILING DETAIL - LINEAR SLOT SOFFIT



3" = 1'-0"

A16 CEILING DETAIL @ KITCHEN WALK-IN COOLER



1 1/2" = 1'-0"

I22 TYP. SEISMIC ACT DETAIL

GENERAL REFLECTED CEILING PLAN NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
2. ALL CEILINGS ARE FASTENED TO UNDERSIDE OF FLOOR/ROOF FRAMING UNLESS NOTED OTHERWISE.
3. ALL CEILINGS ARE TO BE SMOOTH FINISHED, PAINTED GWB UNLESS NOTED OTHERWISE.
4. FIXTURES ARE TO BE CENTERED IN SPACE UNLESS DIMENSIONED OTHERWISE.
5. GC TO COORDINATE LIGHTING, VENTING, SPRINKLER AND OTHER CEILING -MOUNTED FIXTURE ALIGNMENT WITH OWNER PRIOR TO CLOSING IN. OWNER REVIEW AND APPROVAL OF ALIGNMENT REQUIRED BEFORE PROCEEDING.
6. SEE ELECTRICAL DRAWINGS FOR FIXTURE DETAILS.
7. ALL LIGHT FIXTURES SELECTED BY OWNER.

REFLECTED CEILING PLAN LEGEND

- 4" LED RECESSED CAN FIXTURE
- PENDANT
- BAR PENDANT
- 6'Ø CHANDELIER
- VANITY WALL SCONCE
- TRACK LIGHT
- 4' SURFACE MOUNT LED STRIP
- 2' SURFACE MOUNT LED STRIP
- GYPSUM BOARD CEILING
- 2X2 ACT CEILING
- 2X2 SUPPLY/RETURN DIFFUSER REF. MECH. DWGS
- CEILING ACCESS PANEL

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A22 REFLECTED CEILING PLAN NOTES & LEGEND

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Revisions

No	Date	Description

STATE OF GEORGIA
REGISTERED ARCHITECT

FIRST FLOOR REFLECTED CEILING PLAN

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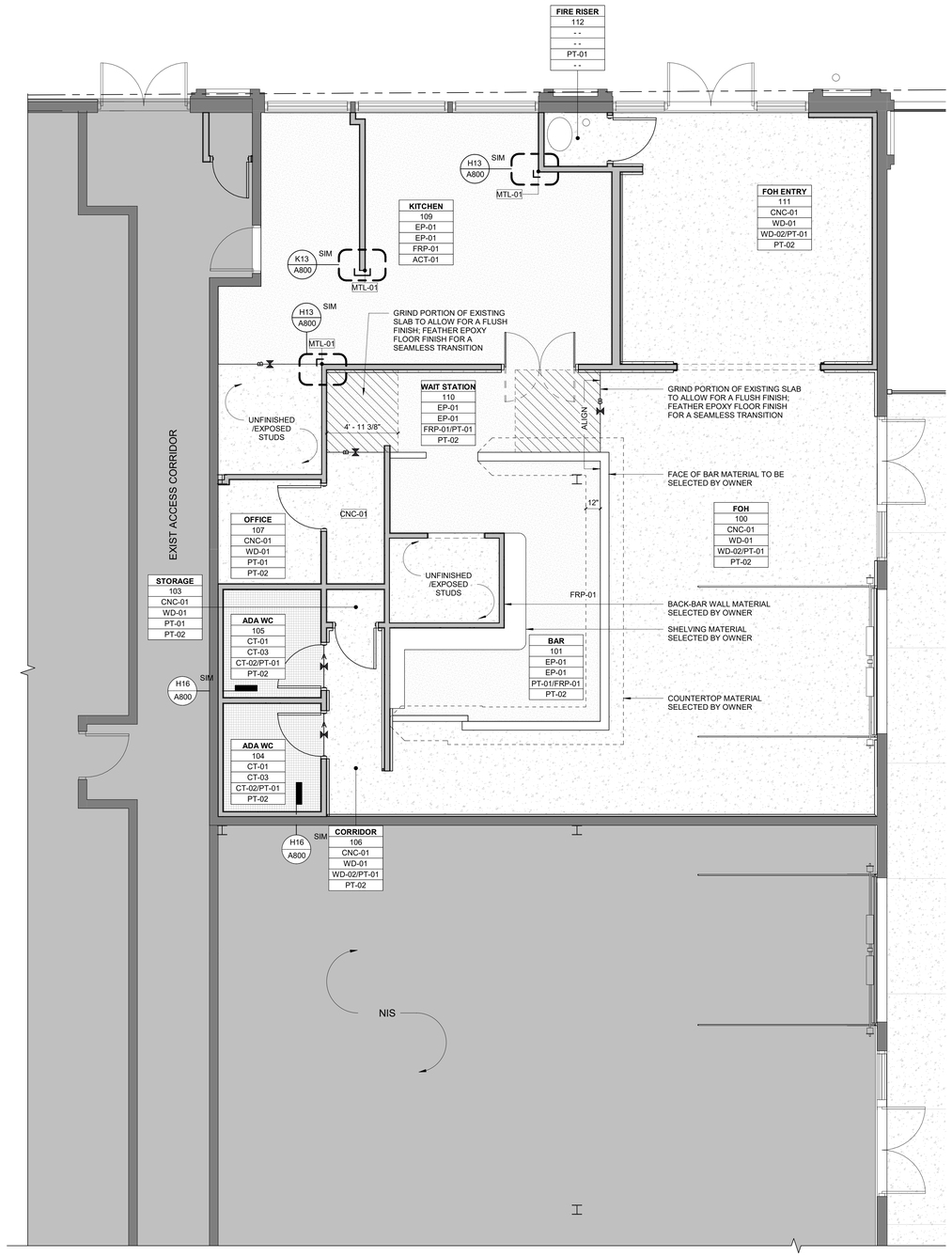


1/4" = 1'-0"

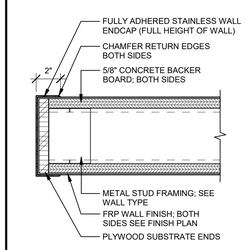
A01 FIRST FLOOR FINISH PLAN

FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MODEL/ DESCRIPTION	FINISH/COLOR	FURNISH	INSTALL	COMMENTS
ACOUSTIC CEILING TILE							
ACT-01	WASHABLE ACOUSTIC CEILING TILE	ARMSTRONG OR APPROVED EQUAL	KITCHEN ZONE 24" X 24", 5/8" THK	SELECTED BY CLIENT	GC	GC	
CERAMIC TILE							
CT-01	CERAMIC FLOOR TILE	SELECTED BY CLIENT	SELECTED BY CLIENT	SELECTED BY CLIENT	GC	GC	CONTRACTOR TO PROVIDE WATERPROOF UNDERLAYMENT; LATICRETE EPOXY GROUT
CT-02	CERAMIC WALL TILE	SELECTED BY CLIENT	SELECTED BY CLIENT	SELECTED BY CLIENT	GC	GC	CONTRACTOR TO PROVIDE WATERPROOF UNDERLAYMENT; LATICRETE EPOXY GROUT
CT-03	CERAMIC TILE COVE BASE	SELECTED BY CLIENT	6"X6"	SELECTED BY CLIENT	GC	GC	TO MATCH WALL TILE
CONCRETE							
CNC-01	EXISTING CONCRETE SLAB	EUCLID EUCO DIAMOND HARD	SEAL & POLISH, CLASS B	SELECTED BY CLIENT	GC	GC	CONTRACTOR TO TEST IN OBSCURE AREA AND OBTAIN ARCHITETS APPROVAL PRIOR TO PROCEEDING THROUGHOUT; OPTIONAL EUCLID ULTRAGUARD WEAR COAT
EPOXY							
EP-01	EPOXY WATERPROOF FLOORING	DUR-A-FLEX OR APPROVED EQ	SELECTED BY CLIENT	SELECTED BY CLIENT	GC	GC	EXTEND 6" UP WALLS FOR BASE COVE; CONTRACTOR TO TEST IN OBSCURE AREA AND OBTAIN ARCHITETS APPROVAL PRIOR TO PROCEEDING THROUGHOUT
FIBER WALL PANELS							
FRP-01	FRP	MARLITE	STANDARD FRP 0.09" THK	COLOR: SELECTED BY CLIENT	GC	GC	CONTRACTOR TO PROVIDE STAINLESS STEEL CORNER GUARDS AND PVC TRIM PIECES; NO HORIZONTAL SEAMS
PAINT							
PT-01	INTERIOR WALL PAINT	BENJAMIN MOORE	FINISH: EGGSHELL	SELECTED BY CLIENT	GC	GC	
PT-02	INTERIOR CEILING PAINT	BENJAMIN MOORE	FINISH: FLAT	SELECTED BY CLIENT	GC	GC	
PT-03	INTERIOR TRIM PAINT	BENJAMIN MOORE	FINISH: SEMI-GLOSS	SELECTED BY CLIENT	GC	GC	
STAINLESS STEEL							
MTL-01	STAINLESS STEEL END/CORNER GUARD	BY G.C.	20 GA STAINLESS STEEL	#4 LOW GRIT POLISH	GC		FULL HEIGHT FROM T.O. BASE TO CLG./SOFFIT; REF. FINISH DETAIL
WOOD							
WD-01	WOOD WALL BASE	BY CONTRACTOR	1"X6" PAINT GRADE POPLAR PAINTED PT-03	SELECTED BY CLIENT	GC	GC	
WD-02	WOOD PANEL WAINSCOT	BY CONTRACTOR	SELECTED BY CLIENT	SELECTED BY CLIENT	<varies>	<varies>	42" A.F.F; CONFIRM HEIGHT WITH CLIENT

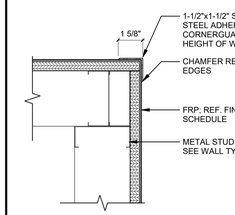
NTS

N13 FINISH SCHEDULE



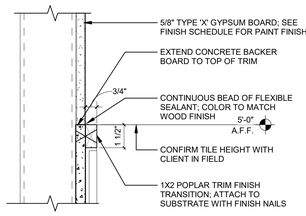
3" = 1'-0"

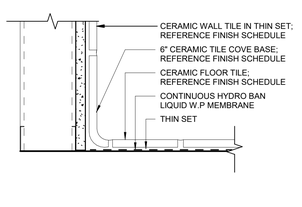
K13 FINISH DETAIL - S.S. ENDGUARD



3" = 1'-0"

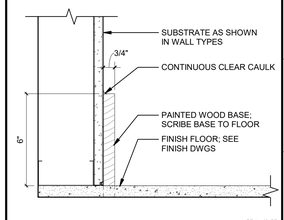
H13 FINISH DETAIL - S.S. CORNERGUARD





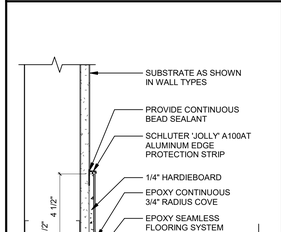
3" = 1'-0"

H16 FINISH DETAIL - WC WALL TILE



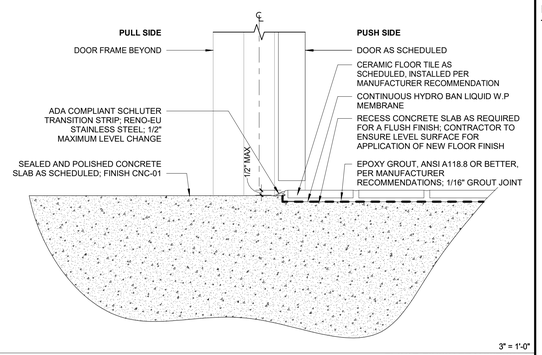
3" = 1'-0"

K22 FINISH DETAIL - WOOD WALL BASE



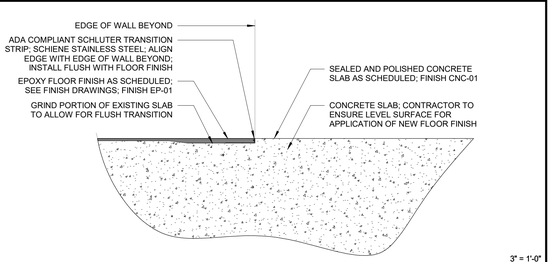
3" = 1'-0"

H22 FINISH DETAIL - EPOXY WALL BASE



3" = 1'-0"

D16 FLOOR FINISH TRANSITION A



3" = 1'-0"

A16 FLOOR FINISH TRANSITION B

FINISH FLOOR PLAN NOTES

1. ALL PRODUCTS, FINISHES AND MATERIALS TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. ALWAYS PROVIDE A MINIMUM OF TWO COATS OF TINTED PRIMER FINISH PAINT. PROVIDE MORE COATS AS REQUIRED.
3. PROVIDE PAINTABLE CLEAR CAULKING BETWEEN WALL AND BASEBOARD. KEEP BEAD SMALL, CLEAN AND SMOOTH. PAINTER TO CUT IN WALL COLOR AFTER APPLICATION AS REQUIRED. NO CALKING SHOULD BE USED BETWEEN BASEBOARD AND FLOORS.
4. ALL MATERIALS AND FINISHES MUST BE CLASS A FIRE-RATED PER ASTM E84 CLASSIFICATION AND HAVE FLAME RESISTANCE COMPLYING WITH LOCAL & STATE CODES.
5. ALL SURFACE TRANSITIONS BETWEEN DIFFERENT OR NEW MATERIALS TO BE FLUSH AND/OR ADA COMPLIANT.
6. ALL SURFACES ARE TO BE SMOOTH, DURABLE AND EASILY CLEANABLE.
7. TRANSITION WALL FINISHES ON AN INSIDE CORNER WHENEVER POSSIBLE U.O.N.
8. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE AND CONFIRM QUANTITIES OF PROCURED ITEMS.
9. ALL FINISHES TO BE SELECTED/APPROVED BY CLIENT.

FINISH FLOOR PLAN LEGEND

- POLISHED + SEALED CONCRETE
- EPOXY FLOOR
- CERAMIC FLOOR TILE
- GRIND SLAB FOR FLUSH TRANSITION
- DETAIL X — FLOOR FINISH TRANSITION
- STAINLESS STEEL WALL GUARD
- ROOM FINISH TAG

ROOM NAME
ROOM NUMBER
FLOOR FINISH
BASE FINISH
WALL FINISH
CEILING FINISH

NTS

A22 FINISH PLAN NOTES & LEGEND

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Revisions

No	Date	Description

STATE OF GEORGIA REGISTERED ARCHITECT

FIRST FLOOR FINISH PLAN

Status	100% CDS
Date	2-13-2025
Project No.	2404.00
Drawing No.	

A800

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GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 1 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

FIRE PROTECTION SHEET INDEX

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- D — DRY SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- CHECK VALVE
- ALARM CHECK VALVE
- TAMPER DETECTION VALVE
- DRY PIPE VALVE
- INDICATING BUTTERFLY VALVE
- POST INDICATOR VALVE
- VALVE NONRISING STEM
- OS&Y VALVE
- PREACTION VALVE
- DELUGE VALVE
- THRUST BLOCK
- PIPE ANCHOR
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- RISER
- DOUBLE CHECK (OS&Y)
- DOUBLE CHECK (BUTTERFLY W/ TAMPER)
- REDUCED PRESSURE ZONE
- X — EQUIPMENT TAG

PROJECT GENERAL NOTES

A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

C LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

D PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

E MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

F ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

G REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

H PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

I FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

J INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

K ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

L INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

M THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

N PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

O CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

P PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

Q LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

R ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

S PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

T REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

U THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

V THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

W WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

X THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

Y WHERE HOUSE KEEPING PADS AND EXTERIOR CONCRETE PADS ARE ADDED OR EXTENDED, EXISTING PLUMBING FLOOR DRAINS AND CLEANOUTS SHALL BE EXTENDED THROUGH THE NEW PAD.

FIRE PROTECTION GENERAL NOTES

A PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.

C THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.

E THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

F REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

G DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

H ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

J THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

K AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

L AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

M AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

N SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

P ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

Q THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

R THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

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Revisions

No	Date	Description

GEORGIA REGISTERED No. 40556 PROFESSIONAL ENGINEER ANDREW M. MCKEEVER
02/13/2025

FIRE PROTECTION TITLE SHEET

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

F000

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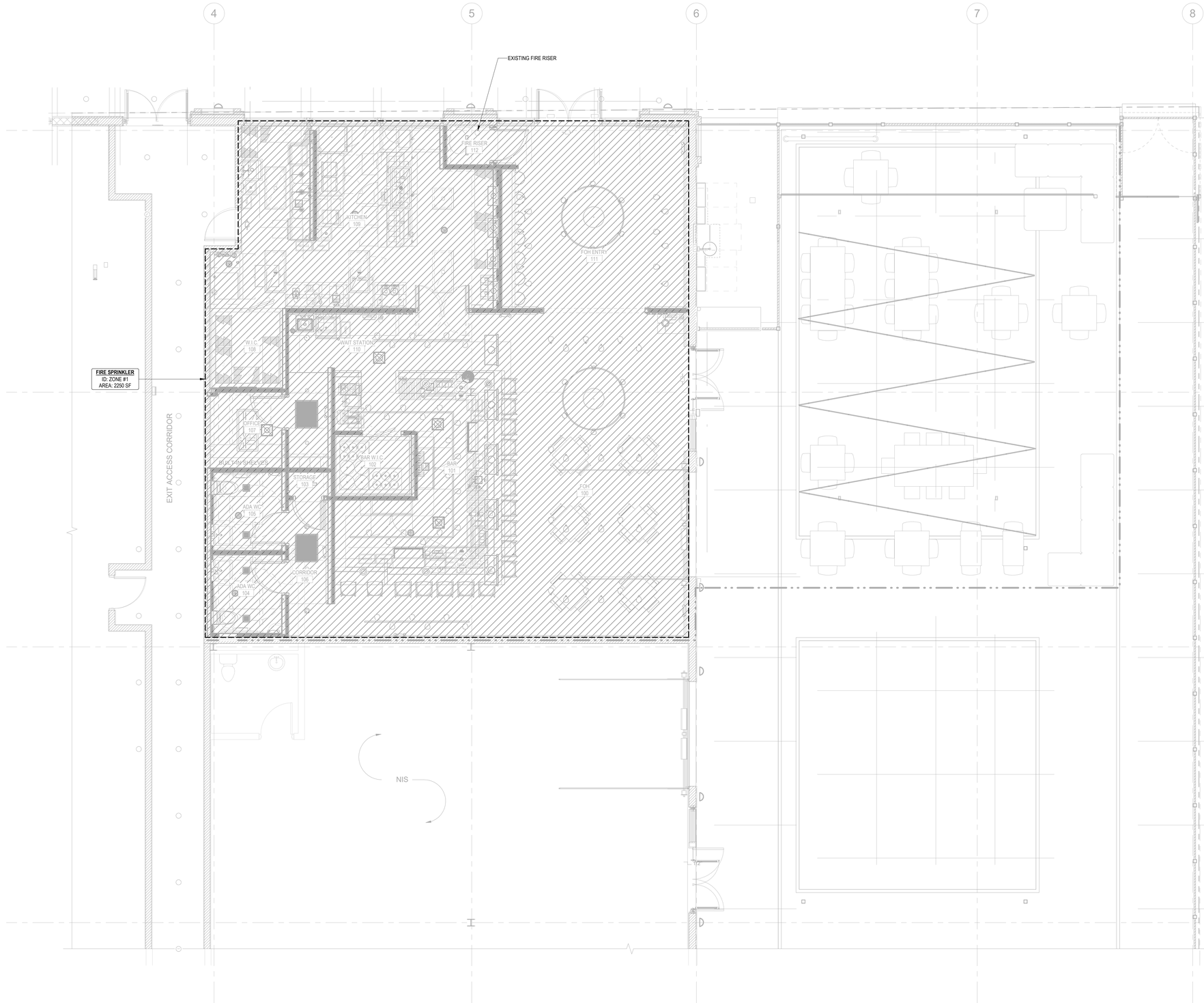

AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA

SYMBOL	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DESIGN AREA (SF)
R	RESIDENTIAL (DWELLING) OCCUPANCY	0.05	400
LH	LIGHT HAZARD OCCUPANCY	0.10	1500
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500
OH2	ORDINARY HAZARD, GROUP 2 OCCUPANCY	0.20	1500
EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE - LEVEL 1

NO.	LOCATION NAME	AREA (SF)	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
FIRST FLOOR			
100	FOH	625	LH
101	BAR	278	LH
102	BAR W.I.C.	45	LH
103	STORAGE	9	OH1
104	ADA WC	51	LH
105	ADA WC	51	LH
106	CORRIDOR	50	LH
107	OFFICE	51	LH
108	W.I.C.	53	LH
109	KITCHEN	415	OH1
110	WAIT STATION	150	LH
111	FOH ENTRY	309	LH
112	FIRE RISER	16	OH1
Grand total: 13		2104	

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Revisions

No	Date	Description

GEORGIA
ANDREW M. MCKEE
02/13/2025

FIRE PROTECTION PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

F101

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1/4" = 1'-0"

1 LEVEL 1 FIRE PROTECTION PLAN

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GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 4 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

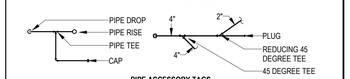
Ø	ROUND	LWT	LEAVING WATER TEMPERATURE
AAV	AIR ADMITTANCE VALVE	M/A	MIXED AIR
ABV	ABOVE	MAX	MAXIMUM
AIC	ABOVE CEILING	MBH	ONE THOUSAND BTU PER HOUR
AD	AREA DRAIN	MCF	ONE THOUSAND CUBIC FEET
ADD	ADDENDUM	MD	MOTORIZED DAMPER
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MIN	MINIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MISC	MISCELLANEOUS
B/F	BELOW FINISHED FLOOR	MTR	MOTOR
BLW	BELOW	MU/A	MAKE-UP/AIR
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
CAP	CAPACITY	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NUMBER
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	O	OXYGEN
CW	COLD WATER	O/A	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DIA	DIAMETER	PIV	POST INDICATOR VALVE
DN	DOWN	PRESS	PRESSURE
DW	DISTILLED WATER	PRV	PRESSURE REDUCING VALVE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	R/A	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
E/A	EXHAUST AIR	RD	ROOF DRAIN
EXIST	EXISTING	REC	RECESSED
F	DEGREES FAHRENHEIT	RED	REDUCER
FCO	FLOOR CLEAN OUT	RH	RELATIVE HUMIDITY
FD	FLOOR DRAIN	RL/A	RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW	RAIN WATER
FOV	FUEL OIL VENT	SF	SQUARE FOOT
FOR	FUEL OIL RETURN	S/A	SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN	SANITARY
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FS	FLOOR SINK	SD	SMOKE DAMPER
FT	FOOT/FEET	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GF	GAS-FIRED	SP	STATIC PRESSURE
GC	GENERAL CONTRACTOR	SS	SANITARY SEWER
GCO	GROUND CLEAN OUT	SV	SHUT OFF VALVE
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GW	GREASE WASTE	TD	TEMPERATURE DROP
HB	WALL HYDRANT	TDR	TRENCH DRAIN
HP	HORSE POWER	TEMP	TEMPERATURE
HTG	HEATING	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HW	HOT WATER	UNO	UNLESS NOTED OTHERWISE
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	VTS	VENT THROUGH SIDEWALL
LAT	LEAVING AIR TEMPERATURE	W	WASTE
LP	LOW PRESSURE	WB	WET BULB
LPG	LIQUEFIED PETROLEUM GAS	WCO	WALL CLEAN OUT
LVR	LOUVER	WH	WATER HEATER

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

PLUMBING AND PIPING SYMBOLS

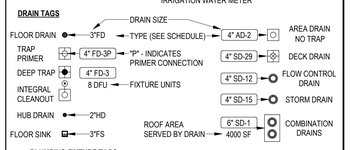
- G — NATURAL GAS
- PG — PROPANE GAS
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- C — DOMESTIC COLD WATER
- H-CW — HARD COLD WATER
- S-CW — SOFT COLD WATER
- CF — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- H — HOT WATER
- HW 140° — HOT WATER 140°
- HWR — HOT WATER RECIRCULATION
- HW-R 140° — HOT WATER RECIRCULATION 140°
- GV — GREASE VENT
- GW — GREASE WASTE
- IW — INDIRECT WASTE
- OV — OIL VENT
- OW — OIL WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- SS — SANITARY SEWER
- SHWR — SOLAR HOT WATER RETURN
- SHWS — SOLAR HOT WATER SUPPLY
- RD — STORM DRAINAGE
- OD — OVERFLOW STORM DRAINAGE
- W-C/A — WATER HEATER COMBUSTION AIR
- W-FLUE — WATER HEATER GAS FLUE
- CD — CONDENSATE DRAINAGE
- R — REFRIGERANT



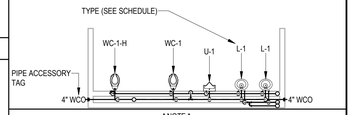
PIPE ACCESSORY TAGS

- 2" BACKWATER SWING CHECK
- 2" CHECK CHECK VALVE
- 2" BALANCE BALANCING VALVE
- 2" CIRC CIRCUIT SETTER
- 1" RECIRC RECIRC. VALVE
- 2" GATE GATE VALVE
- 2" QUICK QUICK OPENING
- 2" SHUTOFF BALL VALVE
- 2" STRAINER
- 1/2" PRIMER TRAP PRIMER
- 2" M-CNTRL ELEC. CONTROL
- TMV-XX THERMOSTATIC MIXING
- 1/2" TMV EMERG. THERMOSTATIC
- 2" PRV PRESS REDUCING
- 2" DOM. WM DOM. WATER METER
- 1 1/2" DOM. WM IRRIGATION WATER METER
- 1" GAS-CNTRL EMERG. GAS SHUTOFF
- 1" PLUG PLUG VALVE
- 1" GAS COCK GAS SHUTOFF COCK
- 1" REG PRESS REGULATOR
- DOUBLE CHECK VALVE
- REDUCED PRESSURE ZONE

DRAIN TAGS



PLUMBING FIXTURE TAGS



NOTE

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING GENERAL NOTES

1. ALL PLUMBING FIXTURES SHALL BE WATER SENSE LABELED PRODUCTS.
2. PROVIDE AN ACCESS PANEL FOR SHUT-OFF VALVES AND HAMMER ARRESTORS INSTALLED ABOVE A HARD CEILING.
3. WHERE A SINK TAILPIECE IS PROVIDED FOR RECEIVING HVAC DRAINS, ASSOCIATED DRAIN TRAPS SHALL BE INSULATED.
4. COORDINATE INSTALLATION OF PIPING TO PREVENT CONFLICTS.
5. SCHEDULED HEATING CAPACITY FOR WATER HEATERS SHALL BE DELIVERED AT SUPPLIED VOLTAGE.
6. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE 2018 INTERNATIONAL PLUMBING CODE WITH ALL APPLICABLE STATE AMENDMENTS, LOCAL CODES, AND ORDINACES.
7. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
8. LOCATE PIPING AND PLUMBING EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
10. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
11. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
12. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
13. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
14. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
15. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
16. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
17. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
18. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING FIXTURES.
19. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
20. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
21. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES.
22. ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
23. COORDINATE ALL WORK WITH OTHER TRADES.
24. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
25. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON THE HEATED SIDE OF CEILING INSULATION AND HEATED SIDE OF WALL INSULATION.
26. SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MIN.; PIPING LARGER THAN 2" SHALL BE SLOPED AT 1/8" PER FOOT MIN.
27. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
28. PROVIDE INLINE TRAP SEAL DEVICES ON ALL FLOOR DRAINS, UNO.
29. PROVIDE DRAIN VALVES AT LOW POINTS IN ALL WATER PIPING SYSTEMS.
30. ALL WATER, VENT, STORM AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING, UNO.
31. ALL SOIL AND WASTE PIPING SHALL BE INSTALLED BELOW THE FLOOR, UNO.
32. PROVIDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT AND STORM RISER OVER ONE STORY IN HEIGHT. ALL WALL CLEANOUTS SHALL BE INSTALLED 18"AFF, UNO.
33. WALL HYDRANTS SHALL BE MOUNTED 18"AFF, UNO. WALL HYDRANTS SHALL BE IN A LOCKABLE RECESSED BOX.
34. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
35. LOCATE ALL DRAINAGE PIPING AND CLEANOUTS CENTERED IN THE CORRIDORS, UNO. COORDINATE THE LOCATIONS OF CLEANOUTS WITH FLOOR PATTERN. ALL CLEANOUTS AT THE EXIT OF CORRIDORS SHALL BE TWO-WAY CLEANOUTS.
36. ALL VENT TERMINALS SHALL BE LOCATED A MIN. OF 10 FEET FROM ANY DOOR OPENING, OPERABLE WINDOW, OR FRESH AIR INTAKE.
37. WHERE MOUNTING HEIGHTS OF FIXTURES CONFLICT WITH FIXTURE HEIGHTS ON THE ARCHITECTURAL DRAWINGS, THE HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE.
38. HEAT TRACE SHALL BE APPLIED TO WATER PIPING INSTALLED IN UNCONDITIONED SPACES.
39. FIXTURES TRAPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE FIXTURE OUTLET; VERTICAL DISTANCE SHALL NOT EXCEED 24 INCHES PER IPC 2018, SECTION 1002.1.
40. PIPING INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136, AND UL-723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS WITH MECHANICAL CONTRACTOR.
41. PIPE DRAIN AND HOT WATER SUPPLY TO UNDERCOUNTER DISHWASHERS FROM ADJACENT SINK.
42. PROVIDE THERMAL MIXING VALVE FOR ALL HAND WASH SINKS AND LAVATORIES THAT RECEIVE HOT WATER.
43. WASHING MACHINE WASTE SHALL CONNECT TO A STANDPIPE. THE STANDPIPE SHALL NOT EXTEND LESS THAN 30 INCHES ABOVE THE WEIR OF THE STANDPIPE TRAP PER IPC 2018, SECTION 802.4.3.1.
44. DOMESTIC HOT WATER PIPE CONNECTIONS FOR PUBLIC LAVATORY FAUCETS SHALL BE NO MORE THAN 2 FEET FROM THE RECIRCULATED HOT WATER LOOP FOR MULTIPLE LAVATORIES, AND SHALL BE NO MORE THAN 6 INCHES FROM THE RECIRCULATED HOT WATER LOOP FOR A SINGLE LAVATORY PER IECC 2015, SECTION C404.5.1.
45. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
46. WALL CLEANOUTS SHALL BE LOCATED IN LOCKABLE WALL ACCESS BOX.
47. ALL PLUMBING EQUIPMENT AND VALVES LOCATED ABOVE CEILINGS SHALL BE IDENTIFIED WITH AN ENGRAVED MARKER PERMANENTLY ATTACHED TO THE CEILING GRID.
48. WHERE GENERATORS ARE INSTALLED, THE PLUMBING CONTRACTOR SHALL BECOME FAMILIAR WITH THE GENERATOR MANUFACTURER'S NATURAL GAS AND/OR PROPANE DESIGN GUIDE AND SHALL SIZE AND INSTALL ALL PIPING CONNECTIONS PER THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S REPRESENTATIVE SHALL REVIEW AND APPROVE SIZING AND INSTALLATION PRIOR TO GENERATOR CONNECTION AND STARTUP.
49. WATER CLOSET SEATS FOR PUBLIC USE SHALL BE HINGED OPEN-FRONT TYPE, PER IPC 425.3. SEATS FOR RESIDENTIAL USE MAY BE CLOSED FRONT TYPE.
50. PLUMBING CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ACCESSORIES REQUIRED FOR CONNECTION OF HVAC DRAINS. SINK TAILPIECES AND INSULATED TRAPS SHALL BE PROVIDED.
51. PLUMBING CONNECTIONS TO KITCHEN EQUIPMENT: THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT DRAWINGS AND KITCHEN EQUIPMENT ROUGH-IN PLAN FOR THE EXACT LOCATIONS, ROUGH-IN HEIGHT, CONNECTION SIZES, ETC. IN THE KITCHEN. THE PLUMBING CONTRACTOR SHALL PROVIDE THE SUPPLY VALVES, P-TRAPS, DRAINS, INDIRECT DRAWINGS, ETC. TO PROVIDE A COMPLETE WORKING KITCHEN SYSTEM. FINAL CONNECTIONS TO THE KITCHEN EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR.
52. KITCHEN WASTE PIPING WHERE 140°F OR WARMER LIQUIDS ARE DISCHARGED MUST BE CAST IRON. PITCH ALL KITCHEN WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
53. REMOVE ALL UNUSED PIPING AND ACCESSORIES.
54. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
55. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
56. LAVATORY AND SINK SUPPLY COVERS SHALL ONLY APPLY TO EXPOSED FIXTURES.
57. PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
58. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
59. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

GAS-FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER	MODEL NO.	GAS-FIRED HEAT EXCHANGER / GAS BURNER / INPUT	UNIT WEIGHT	REMARKS
WH-1	RINNAI	TR502ILCUaN	398000 Btu/h	214 lb	TANKLESS, 2-UNITS, FREE-STANDING RACK, EXTERIOR MOUNTED. WH EQUALS BY RHEEM, A.O. SMITH, NAVIEN & INTELLIHOT.

GREASE INTERCEPTOR SCHEDULE

UNIT ID	UNIT TYPE	FLOW (GPM)	CAPACITY: LIQUID (GAL)	CAPACITY: GREASE (LB)	DIMENSIONS: LENGTH	DIMENSIONS: WIDTH	DIMENSIONS: HEIGHT	ARRANGEMENT	BASIS OF DESIGN	REMARKS
GI-1	GRAVITY	50	0	100	2' - 6"	2' - 1"	1' - 10"	BELOW FLOOR	ZURN #GT2700-50	

DOMESTIC FIXTURE SCHEDULE

UNIT ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	TRIM: MANUFACTURER	TRIM: MODEL	TRIM: TYPE	WATER FLOW: FAUCET (GPM)	WATER FLOW: FLUSH VALVE (GAL)	MINIMUM CONNECTION SIZES: COLD WATER	MINIMUM CONNECTION SIZES: HOT WATER	MINIMUM CONNECTION SIZES: WASTE	MINIMUM CONNECTION SIZES: VENT	GENERAL INFORMATION
L-1	LAVATORY	DURAVIT	0329850030	CERAMIC	KOHLER	K-14402-4A	SINGLE HANDLE FAUCET	0.50		1/2"	1/2"	2"	2"	WALL HUNG, CERAMIC, NOMINAL 33-1/2"x19-1/4", SINGLE FAUCET HOLE. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. FAUCET EQUALS BY ZURN, CHICAGO & T&S BRASS. DRAIN & P-TRAP BY MCGUIRE, ZURN OR WATTS. SUPPLIES BY MCGUIRE, BRASS CRAFT OR WATTS. INSULATION KIT BY MCGUIRE. TRUEBRO OR SKAL-GUARD. CARRIER BY J.R. SMITH, JOSAM OR ZURN.
MS-1	MOP SINK	FIAT	MSB-2424	MOLDED STONE	ZURN	Z1996-SF	VACCUM BREAKER, INTEGRAL STOPS, CHROME PLATED	2.50		1/2"	1/2"	3"	2"	MOLDED STONE, FLOOR MTD, 24"x24". FIXTURE EQUALS BY SWAN & ZURN. FAUCET EQUALS BY FIAT & SWAN. BUMPERGUARDS & HOSE/BRACKET BY FIAT, SWAN OR ZURN. WALL GUARDS BY FIAT OR ZURN.
WC-1-H	WATER CLOSET - FLOOR - TANK TYPE - ADA	TOTO	MS854114EL(G)(R)	WHITE VITREOUS CHINA	TANK TYPE				1.28	1/2"		3"	2"	ELONGATED BOWL WATER CLOSET. 16"RIM HT. FIXTURE EQUALS BY AMERICAN STANDARD, KOHLER, SLOAN & ZURN. SEAT WITH SELF-SUSTAINING HINGES BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.

DRAIN SCHEDULE

UNIT ID	DESCRIPTION	MATERIAL DESCRIPTION: DRAIN BODY	MATERIAL DESCRIPTION: STRAINER	PIPE SIZE	BASIS OF DESIGN	SPECIFICATION
3"FD	FLOOR DRAIN	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	WATTS FD-100-A	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, NO HUB OUTLET. IN PLENUM SPACES, FLOOR DRAIN MUST HAVE A MIN 4" DEEP SEAL TRAP & TRAP PRIMER, PER IPC 401.4.
3"FS	FLOOR SINK	EPOXY COATED CAST IRON	--	3"	WATTS FS-710	8" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON 1/2 GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET.
3"HD	HUB DRAIN	EPOXY COATED CAST IRON	NICKEL BRONZE	2"	WATTS FD-100-DD	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, DEEP SEAL TRAP W/TRAP PRIMER, ADJUSTABLE CAST IRON HUB FUNNEL, AND NO HUB OUTLET.
FD-1	FLOOR DRAIN	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	WATTS FD-100-ER	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND NICKEL BRONZE EXTENDED RIM STRAINER, AND NO HUB OUTLET.

HAMMER ARRESTOR SCHEDULE

TYPE ID	DESCRIPTION
HA-A	FIXTURE UNIT CAPACITY: 1-11

PLUMBING SHEET INDEX

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Revisions

No	Date	Description

GEORGIA — ANDREW M. MCKEE — 02/13/2025

PLUMBING TITLE SHEET

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Date	02-13-2025
Project No.	2404.00
Drawing No.	

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PLUMBING SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR PLUMBING WORK:

INTERNATIONAL PLUMBING CODE - 2018 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING AND FIRE PROTECTION WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

UTILITY CONNECTIONS: COORDINATE THE CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND UTILITIES AND SERVICES. COMPLY WITH THE REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES AND CONTROLLING AGENCIES. PROVIDE A SINGLE CONNECTION FOR EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTION ARE INDICATED.

PLUMBING IDENTIFICATION MATERIALS:

PLASTIC PIPE MARKERS: PROJECT MANUFACTURER'S STANDARD PRE-PRINTED, FLEXIBLE OR SEMI-RIGID, PERMANENT, COLOR-CODED, PLASTIC-SHEET PIPE MARKERS, COMPLYING WITH ANSI A13.1.

PROVIDE FULL BAND PIPE MARKERS, EXTENDING 360 DEGREES AROUND PIPE AT EACH LOCATION, FASTENED BY SNAP-ON APPLICATION OF PRE-TENSIONED SEMI-RIGID PLASTIC PIPE MARKER.

IDENTIFYING SYSTEMS: INSTALL PIPE MARKER ON PIPING OF THE FOLLOWING PIPING SYSTEMS:

DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN MECHANICAL ROOMS, ACCESSIBLE MAINTENANCE SPACES (INCLUDING ACCESSIBLE AREAS ABOVE CEILINGS), NEAR EACH VALVE AND CONTROL DEVICES, NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION AND SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 25 FEET ALONG EACH PIPING RUN.

DOMESTIC WATER PIPING SYSTEM

WATER DISTRIBUTION PIPING 4" AND SMALLER SHALL BE TYPE L HARD DRAWN COPPER TUBE, ASTM B88-83 WITH WROUGHT COPPER-SOLDER JOINT FITTINGS. CPVC OR PEX IS ALLOWED AT OWNER'S OPTION.

WATER HAMMER ARRESTERS SHALL BE BELLOWS TYPE; PRECHARGED COMPRESSOR CHAMBER; STAINLESS STEEL CASING AND BELLOWS. PROVIDE SIZES COMPLYING WITH PDI STANDARD WH-201. JOSAM 75000 SERIES, JAY R. SMITH FIG 5000, OR ZURN 1700 SERIES.

BALL VALVES: BALL VALVES SHALL HAVE TWO-PIECE BRONZE OR BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE RATED FOR 150 SWP, 600 WOG OR 300 CWP. VALVES SHALL BE BY APOLLO, MILWAUKEE, NIBCO, VICTAULIC, WATTS OR RED-WHITE.

GATE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET, SOLID WEDGE, NON-RISING STEM TYPE AND RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

GLOBE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET WITH INTEGRAL SEAT AND RENEWABLE DISC. VALVES SHALL BE RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 SWP, 200 W0G. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

FLOW CONTROL VALVES: VALVES FOR DOMESTIC HOT WATER RETURN SHALL HAVE BRASS AND STAINLESS STEEL BODIES, WITH INTEGRAL BALL VALVE, GROUND JOINT UNION, AND SOLDER ENDS. VALVE SHALL BE RATED FOR 600 PSIG AND FLOW RATE, AS SHOWN ON DRAWINGS. FLOW CONTROL VALVES SHALL BE AUTOFLOW MODEL FU-050, HAYES 2500 OR EQUIVALENT BY GRISWOLD.

SOIL, WASTE AND VENT PIPING SYSTEM

SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS-DWV (ASTM D2661-82) OR PVC-DWV (ASTM D2665-82) PIPE AND FITTINGS. JOINTS SHALL BE SOLVENT CEMENT SOCKET TYPE. SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS, ASTM A74. JOINTS IN UNDERGROUND CAST IRON PIPING SHALL BE MADE USING AN ASTM-C564 NEOPRENE ELASTOMERIC COMPRESSION GASKET CONFORMING TO THE REQUIREMENTS OF ASTM C 1563. DRAINAGE PIPING SUBJECT TO CARRYING WATER IN EXCESS OF 140°F SHALL BE CAST IRON.

GREASE WASTE SHALL BE HUBLESS CAST IRON. HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310. GASKETS SHALL CONFORM TO ASTM C 564. HEAVY DUTY AND MEDIUM DUTY COUPLINGS SHALL CONFORM TO ASTM C 1540.

FLOOR DRAIN FD: PROVIDE COATED CAST IRON FLOOR DRAINS WITH INTEGRAL PIPE STOPS, FLASHING COLLAR, SEEPAGE FLANGE, 6 INCH DIAMETER ROUND NIKALOY STRAINER. FLOOR DRAINS SHALL BE BY: WADE, JOSAM, ZURN, J.R. SMITH & WATTS.

TESTING: THE PIPING OF THE SOIL, WASTE AND VENT SYSTEM SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TEST SHALL BE APPLIED TO THE SOIL, WASTE AND VENTING SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING OF THE SECTION UNDER TEST SHALL BE PLUGGED AND EACH SECTION SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FOOT HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPER MOST 10 FEET OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 30 MINUTES BEFORE THE INSPECTION STARTS; THE SYSTEM SHALL BE TIGHT AT ALL JOINTS. JOINTS THAT FAIL THE TEST SHALL BE REMADE AND RETESTED.

GAS PIPING SYSTEMS

ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE OF THE SIZE INDICATED WITH CLASS 150 MALLEABLE IRON THREADED FITTINGS.

GAS PRESSURE REGULATORS SHALL BE DIAPHRAGM ACTUATED WITH CAST IRON BODY, ALUMINUM DIAPHRAGM CHAMBER, AND ALL INTERNAL PARTS DESIGNED FOR USE WITH NATURAL GAS. REGULATORS SHALL BE ADJUSTABLE, WITH AUTOMATIC LOADING, AUTOMATIC LOW PRESSURE CUT-OFF, AND FULL INTERNAL RELIEF. THE REGULATOR SHALL BE ADJUSTED FOR OUTLET PRESSURE INDICATED ON THE DRAWINGS. THE OUTLET PRESSURE SHALL NOT VARY MORE THAN 1 INCH W.C. FROM THE SET POINT AT SPECIFIED CAPACITY. THE REGULATOR SHALL BE CAPABLE OF COMPLETE SHUT-OFF IN THE EVENT THE SUPPLY PRESSURE IS INTERRUPTED OR THE GAS DEMAND EXCEEDS THE REGULATOR CAPACITY AND SHALL REMAIN OFF UNTIL THE REGULATOR IS MANUALLY RESET. THE REGULATOR SHALL HAVE A WEATHERPROOF, BUG PROOF, SCREENED VENT CAP INSTALLED IN THE VENT TAPPING. REGULATORS SHALL BE BY SENSUS (ROCKWELL), FISHER, OR SINGER.

GAS SOLENOID VALVES 3 INCHES IN SIZE AND SMALLER SHALL BE 2-WAY, NORMALLY CLOSED TYPE WITH MANUAL RESET FOR LOW PRESSURE SERVICE. THE VALVE SHALL HAVE AN ALUMINUM BODY, BUNA N SEAT, AND BUNA N DISC. MAXIMUM PRESSURE DROP SHALL NOT EXCEED 1" W.C. AT SYSTEM CAPACITY. THE SOLENOID ENCLOSURE SHALL BE NEMA 1 AND HAVE ELECTRICAL CHARACTERISTICS AS SHOWN ON THE DRAWINGS. VALVE SHALL BE UNDERWRITERS LABORATORIES LABELED. VALVES SHALL BE ASCO 8044 COMBUSTION VALVE SERIES OR EQUIVALENT BY SINGER OR FISHER.

PLUG VALVES SHALL HAVE IRON BODY (SEMI-STEEL) LUBRICATED TYPE CAST BRONZE PLUG, AND THREADED ENDS RATED FOR 175 PSIG W.O.G. WORKING PRESSURE. PLUG VALVES SHALL BE ROCKWELL 142, WALWORTH 655, OR POWELL 2200.

SHUTOFF VALVES 2 INCHES AND SMALLER SHALL BE BALL VALVES. VALVES SHALL HAVE THREADED INLET AND OUTLET CONNECTIONS, TWO-PIECE BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE ASME B16.44 AND UL LISTED FOR USE WITH NATURAL GAS. VALVE SHALL BE RATED FOR 250 PSI, 600 CWP. VALVES SHALL BE BY MAXITROL, APOLLO, HAYS, MILWAUKEE, NIBCO, OR WATTS.

WATER HEATERS

WATER HEATER(S) SHALL BE EXTERIOR RACK MOUNTED, INSTANTANEOUS, MULTIPLE POINT-OF-USE, GAS FIRED, DIRECT VENT, WATER HEATER(S) DESIGN CERTIFIED TO THE ANSI Z21.10.3 STANDARD FOR GAS FIRED WATER HEATERS. EACH WATER HEATER SHALL PRODUCE NO MORE THAN 55 PPM NOX EMISSIONS WHEN TESTED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD).

WATER HEATERS SHALL BE CONFIGURED TO OPERATE WITH NATURAL GAS AND A 120 VOLT/60 HZ AC POWER SOURCE. UNITS SHALL HAVE A BTU INPUT RANGE OF 15,000 BTU/HR TO 199,500 BTU/HR, A MINIMUM RECOVERY EFFICIENCY RATING OF 82%, A MINIMUM HOT WATER OUTLET CAPACITY OF 6.3 GALLONS PER MINUTE (WITH A 60 °F TEMPERATURE RISE), AND A MINIMUM OPERATING FLOW RATE OF 0.6 GALLON PER MINUTE (WITH A 60 °F TEMPERATURE RISE). WATER HEATERS SHALL BE MICROPROCESSOR CONTROLLED AND UTILIZE A DIRECT ELECTRONIC IGNITION SYSTEM (WITH NO STANDING PILOT), FULLY MODULATING GAS CONTROL VALVE, TURBINE FLOW METER, AUTOMATIC ELECTRO-MECHANICAL WATER FLOW CONTROL VALVE, AND WATER TEMPERATURE THERMISTORS TO MAINTAIN OUTLET WATER TEMPERATURE BETWEEN ± 2 °F OF SET POINT TEMPERATURE. UNITS SHALL INCORPORATE THE FOLLOWING INTERNAL SAFETY DEVICES: FLAME FAILURE LOCKOUT, BOILING PROTECTION LOCKOUT, THERMAL OVERHEAT PROTECTION, INTERNAL FREEZE PROTECTION FOR AMBIENT TEMPERATURES AS LOW AS –30 °F, AND LOCKOUT PROTECTION IN THE EVENT OF A BLOCKED FLUE. WATER HEATERS SHALL UTILIZE A REMOTE TEMPERATURE THERMOSTAT CONTROLLER TO PROVIDE AN ADJUSTABLE SET POINT RANGE OF 96 °F TO 180 °F. UNITS SHALL ALSO BE CAPABLE OF STORING AND DISPLAYING UP TO 9 DIAGNOSTIC MAINTENANCE CODES, VIA THE DISPLAY ON THE REMOTE TEMPERATURE THERMOSTAT CONTROLLER. WATER HEATERS SHALL BE SUITABLE FOR EXTERIOR INSTALLATION.

WATER HEATERS SHALL HAVE AN INTERNALLY COATED COPPER HEAT EXCHANGER. UNITS SHALL HAVE STAINLESS STEEL BURNERS, SOLID BRASS WATER FLOW CONTROL VALVE, AND SOLID BRASS INLET AND OUTLET WATER CONNECTIONS. THESE AND ALL OTHER PARTS SHALL BE WARRANTED AGAINST MATERIAL DEFECTS OR WORKMANSHIP FOR A MINIMUM PERIOD OF 5 YEARS FROM THE DATE OF PURCHASE. WATER HEATERS SHALL BE BY A.O. SMITH, RINNAI, NAVIEN, INTELLIHOT OR HTP.

DOMESTIC HOT WATER CIRCULATION PUMP: PUMP SHALL BE THE IN-LINE CENTRIFUGAL TYPE DESIGNED FOR 125 PSI WORKING PRESSURE WITH BRONZE BODY AND IMPELLER, MECHANICAL SEALS AND STAINLESS STEEL IMPELLER SHAFT. THE PUMP MOTOR SHALL BE THE OPEN DRIP-PROOF DESIGN WITH SLEEVE BEARINGS, BUILT-IN THERMAL OVER-LOAD PROTECTORS, AND SHALL OPERATE AT 1750 RPM. PUMP SHALL HAVE THE CAPACITIES AS SHOWN ON THE DRAWINGS.

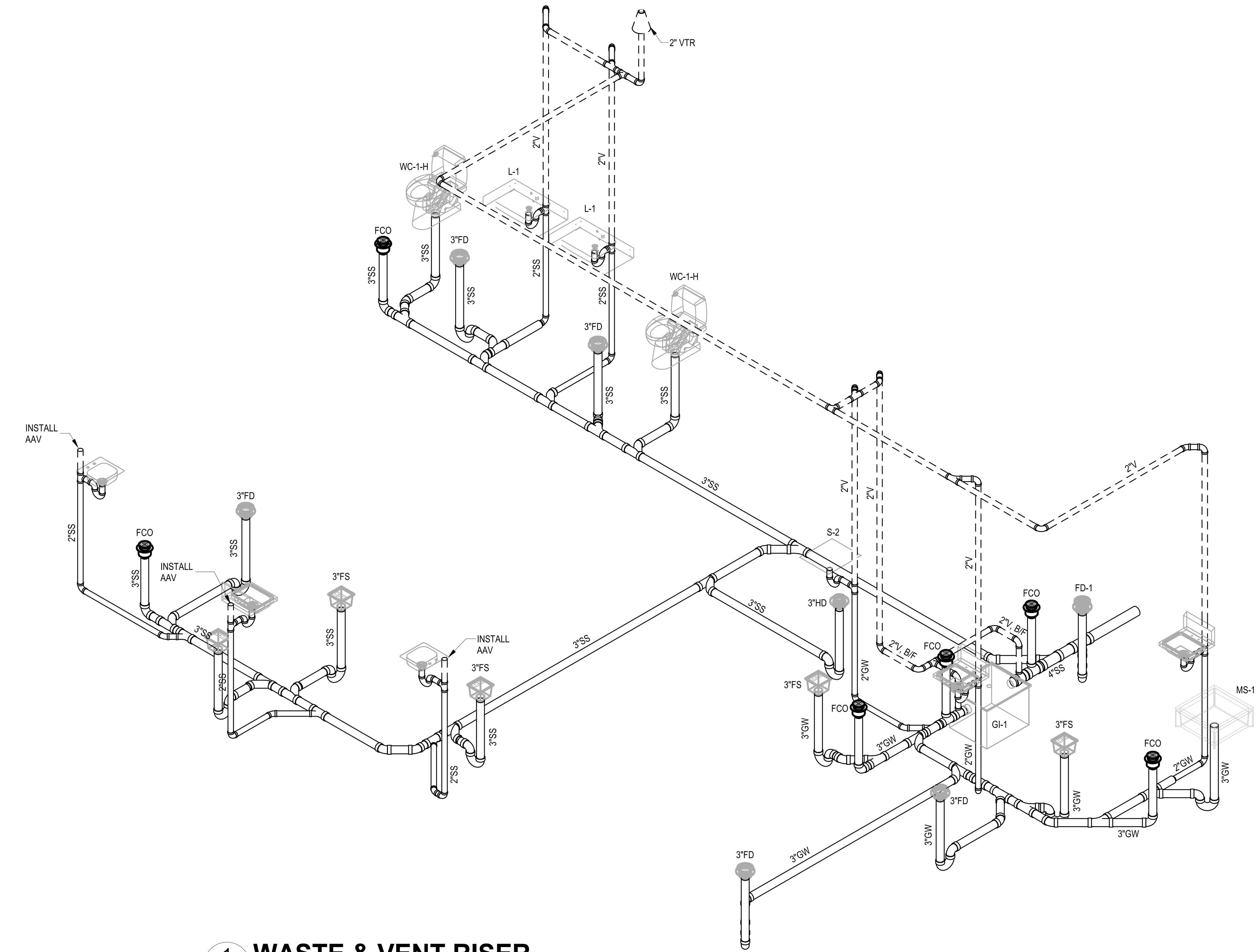
PIPE INSULATION: INSULATION SHALL BE PREFORMED, TWO-PIECE, HEAVY DENSITY FIBERGLASS WITH SELF SEALING ASJ JACKET CONFORMING TO FS HH-I-558 FORM D OR CELLULAR FOAM. TYPE III, CLASS 12. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION OF THE SAME MATERIAL THICKNESS AS INSULATION ON ADJACENT PIPE AND HAVING A MOLDED PVC JACKET. JACKETS SHALL BE CERTAINTEED SNAP-FORM OR ZESTON PVC. INSULATION THICKNESS SHALL BE 1 INCH THICK FOR ALL SIZES OF COLD WATER AND HOT WATER SUPPLY AND RETURN.

STERILIZATION: THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120. THE STERILIZATION SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A PERIOD OF 6 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

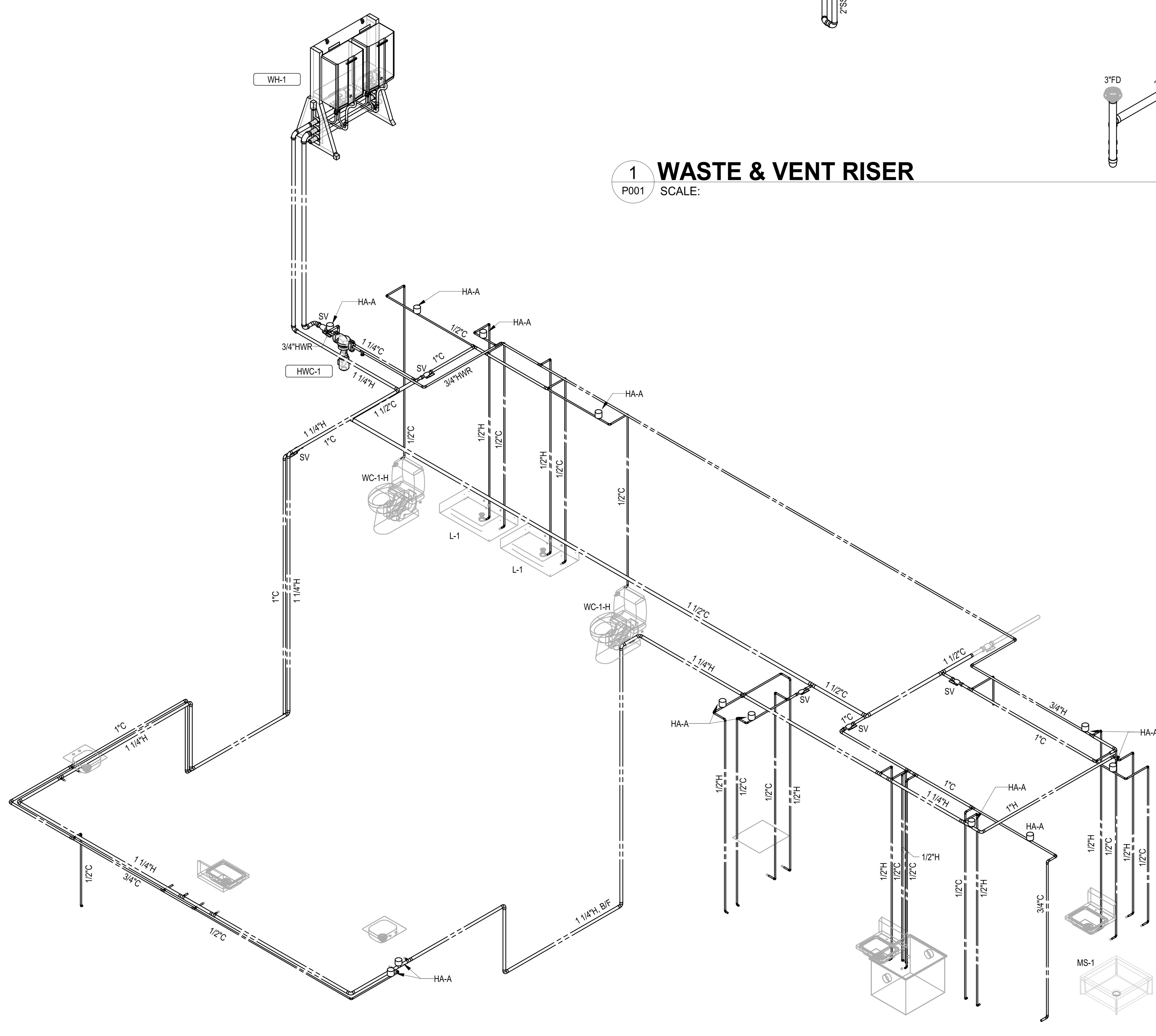
TESTING: THE HYDROSTATIC TEST SHALL BE MADE UPON COMPLETION OF THE ROUGHING-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER AND HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEM SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 100 PSIG AND PROVIDE TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

GREASE INTERCEPTOR

ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL, PDI RATE AT 50 GPM AND 100 LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL. GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. FURNISH WITH LOW INLET AND OUTLET, AS NECESSARY. GREASE INTERCEPTOR SHALL BE BY ZURN OR EQUAL.



1 WASTE & VENT RISER
P001 SCALE:



2 HOT & COLD WATER RISER
P001 SCALE:

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Revisions

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GEORGIA REGISTERED No. 40556 PROFESSIONAL ENGINEER ANDREW M. MCKEEVER
02/13/2025

PLUMBING SPECIFICATIONS & RISERS

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

P001

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PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.

B. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).

C. PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.

D. REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.

E. ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.

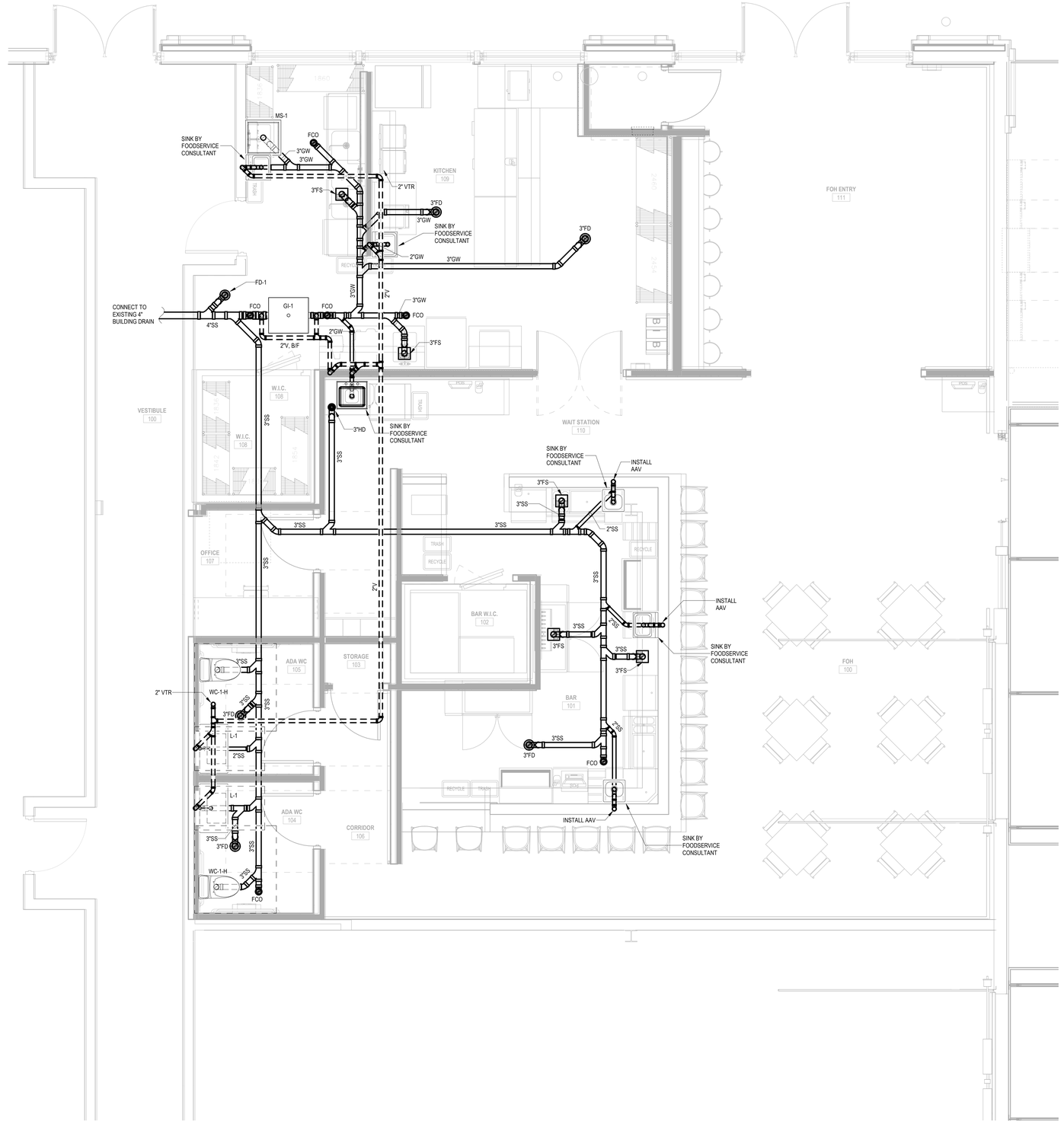
F. ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.

G. MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.

H. FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

I. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.

J. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.



1 WASTE & VENT PLAN

3/8" = 1'-0"

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Revisions

No	Date	Description

GEORGIA REGISTERED ARCHITECT ANDREW M. MCKEEVER
02/13/2025

WASTE & VENT PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

P101

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913-963-1611

2/14/2025 2:58:52 PM

PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.

B. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).

C. PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.

D. REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.

E. ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.

F. ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.

G. MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.

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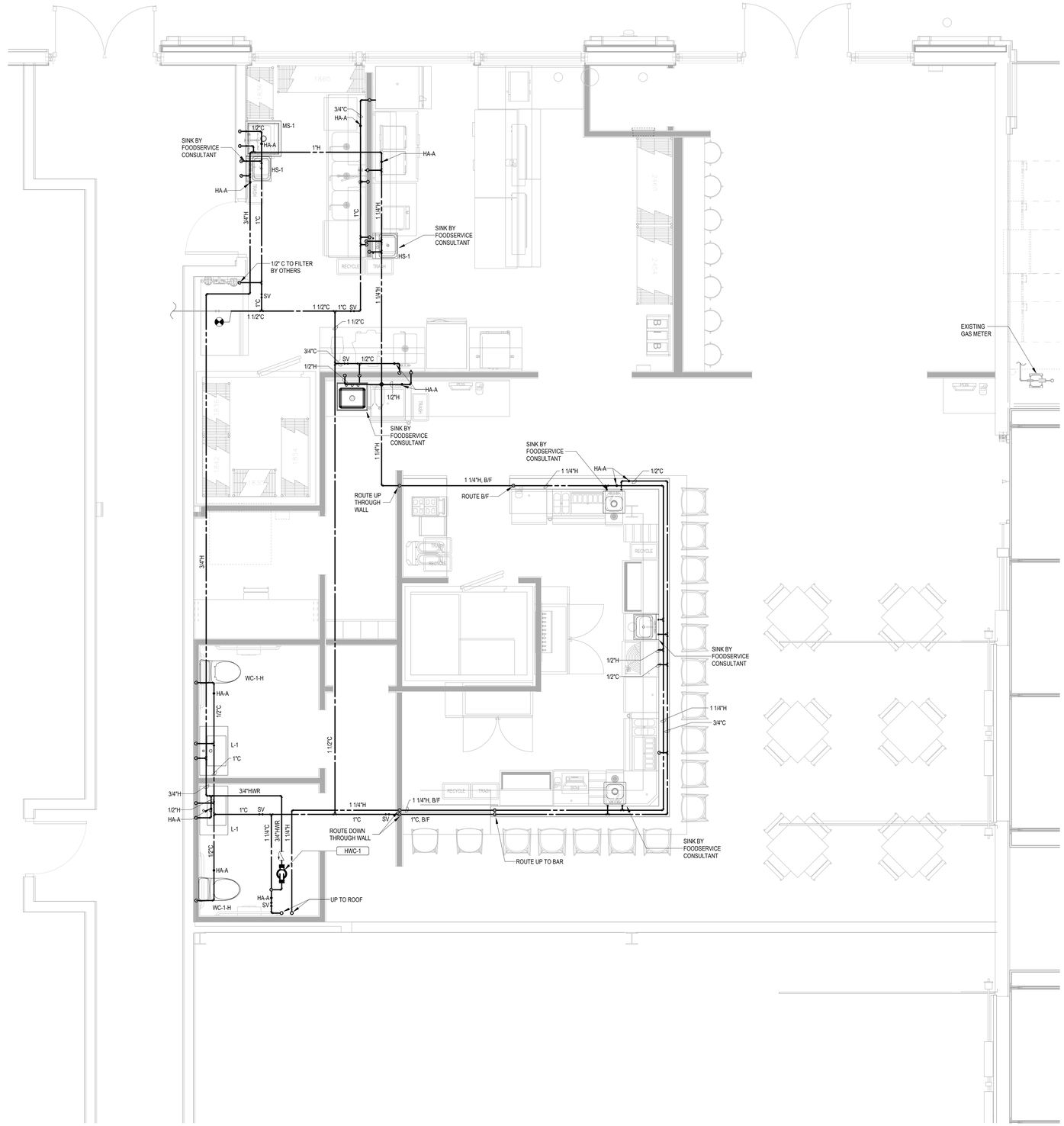

GAS DESIGN	
TOTAL LENGTH:	150 FT.
TOTAL LOAD:	575 CFH
DESIGN PRESSURE:	2 PSI
PRESSURE DROP:	1 PSI

GAS BASIS OF DESIGN:
WH-1: 398 CFH
RHP-ST: 67 CFH
RHP-ST: 110 CFH
TOTAL: 575 CFH

EXISTING GAS METER

1 HOT & COLD WATER PLAN

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02/13/2025

HOT & COLD WATER PLAN

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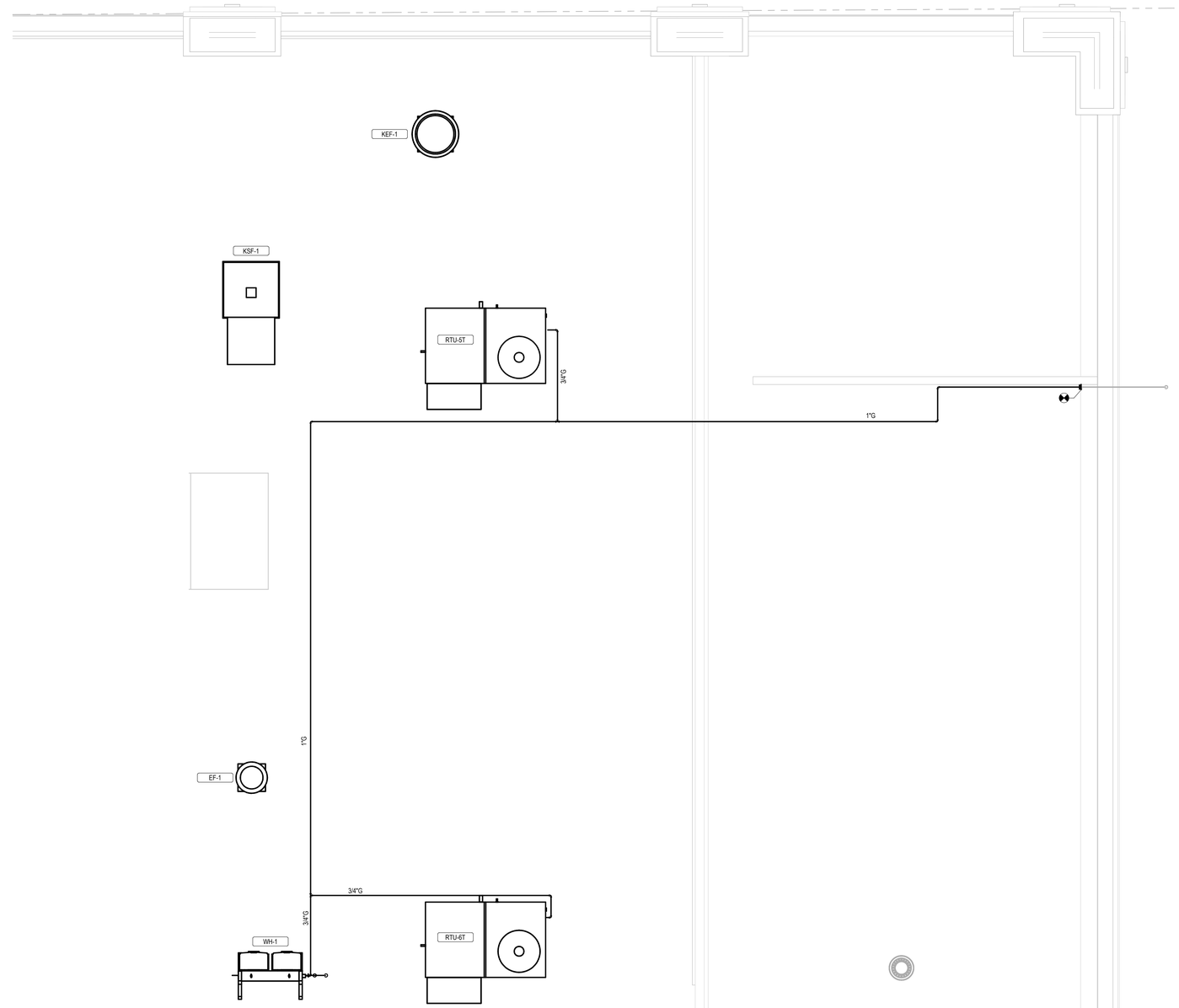

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1 ROOF PLUMBING PLAN

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02/13/2025

ROOF PLUMBING PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
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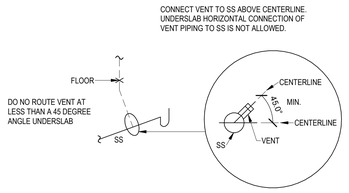
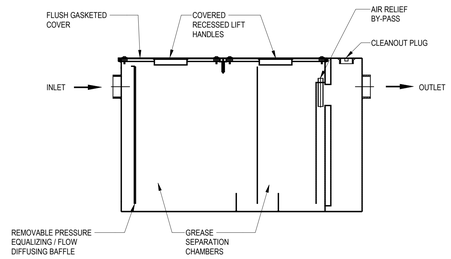
P301

2/14/2025 2:58:54 PM

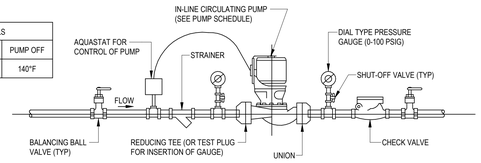


1 P401 VENT INSTALLATION DETAIL
NOT TO SCALE

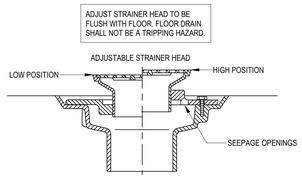


2 P401 GREASE INTERCEPTOR DETAIL
NOT TO SCALE

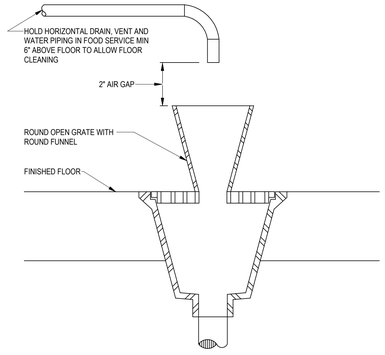
PUMP CONTROLS		
PUMP NO.	PUMP ON	PUMP OFF
HWC-1	130°F	140°F



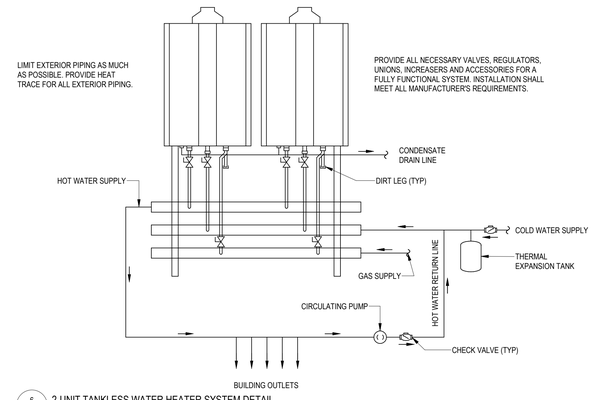
3 P401 IN-LINE CIRCULATING PUMP DETAIL
NOT TO SCALE



4 P401 FLOOR DRAIN DETAIL
NOT TO SCALE



5 P401 HUB DRAIN
NOT TO SCALE



6 P401 2-UNIT TANKLESS WATER HEATER SYSTEM DETAIL
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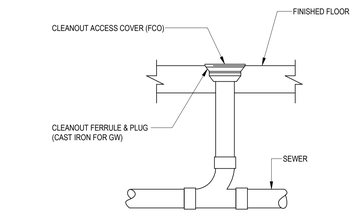
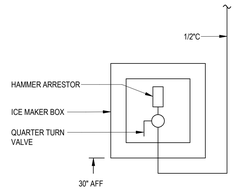
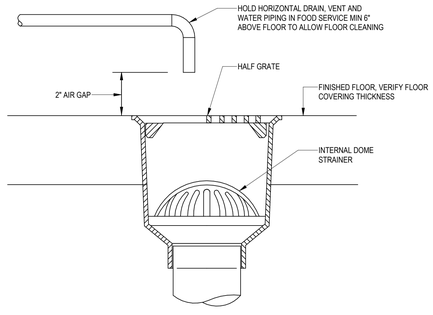


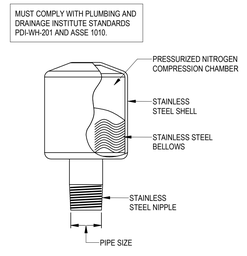
7 P401 FLOOR CLEANOUT DETAIL
NOT TO SCALE



8 P401 ICE MAKER BOX DETAIL
NOT TO SCALE



9 P401 FLOOR SINK
NOT TO SCALE



10 P401 HAMMER ARRESTOR DETAIL
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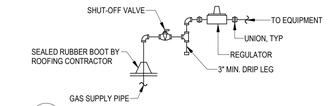

11 P401 ROOF GAS CONNECTION DETAIL
NOT TO SCALE

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PLUMBING DETAILS

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P401

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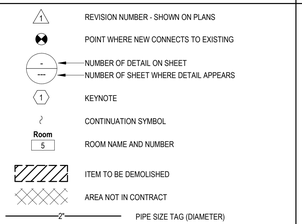
GENERAL MECHANICAL SYMBOLS



ABBREVIATIONS

Ø	ROUND	LV	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FD/SD	COMBINATION FIRE / SMOKE DAMPER	RL/A	RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW	RAIN WATER
FOV	FUEL OIL VENT	SF	SQUARE FOOT
FOR	FUEL OIL RETURN	S/A	SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN	SANITARY
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FS	FLOOR SINK	SD	SMOKE DAMPER
FT	FOOT/FEET	SM	SURFACE MOUNT
FTR	FIN TUBE RADIATION	SP	STANDPIPE
GAL	GALLON	SP	STATIC PRESSURE
GF	GAS-FIRED	STM	STEAM
GC	GENERAL CONTRACTOR	T	THERMOSTAT
GPM	GALLONS PER MINUTE	TD	TEMPERATURE DROP
GW	GREASE WASTE	TDR	TRENCH DRAIN
HB	HOSE BIB	TEMP	TEMPERATURE
HP	HORSE POWER	TYP	TYPICAL
HTG	HEATING	UG	UNDERGROUND
HTR	HEATER	VAC	VACUUM
HW	HOT WATER	V	VENT
HYD	HYDRANT	VAV	VARIABLE AIR VOLUME
ID	INDIRECT	VENT	VENTILATION
IN	INCH	VTR	VENT THROUGH ROOF
INV	INVERT	W	WASTE
LB	POUND	WB	WET BULB
LB/HR	POUNDS PER HOUR	WCO	WALL CLEAN OUT
LAT	LEAVING AIR TEMPERATURE	WH	WALL HYDRANT
LP	LOW PRESSURE		
LPG	LIQUEFIED PETROLEUM GAS		

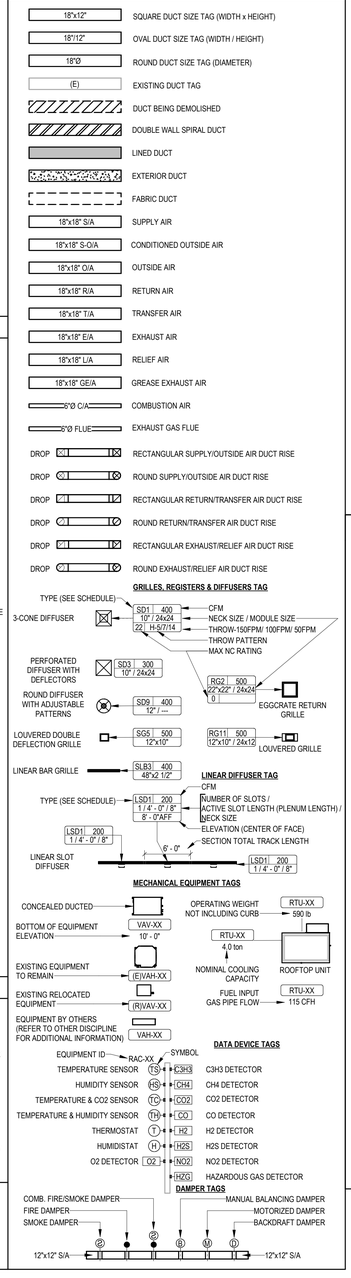
EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONOR	FCU	FAN COIL UNIT
AH	AIR HANDLER	FF	FLY FAN
AHU	AIR HANDLING UNIT	GRV	GRAVITY ROOF VENTILATOR
AS	AIR SEPARATOR	HP	HEAT PUMP
B	BOILER	HWP	HEATING WATER PUMP
CH	CHILLER	HRC	HEAT RECOVERY CONTROLLER
CT	COOLING TOWER	KEF	KITCHEN EXHAUST FAN
CUH	CABINET UNIT HEATER	MAU	MAKEUP AIR UNIT
CHWP	CHILLED WATER PUMP	RAC	ROOFTOP AIR CONDITIONER
DAH	DUCTLESS AIR HANDLER	RHP	ROOFTOP HEAT PUMP
DHP	DUCTLESS HEAT PUMP	SF	SUPPLY FAN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	TF	TRANSFER FAN
EF	EXHAUST FAN	UH	UNIT HEATER
EH	ELECTRIC HEATER	VAH	VRF AIR HANDLER
ERV	ENERGY RECOVERY VENTILATOR	VHP	VRF HEAT PUMP
ET	EXPANSION TANK	VRF	VARIABLE REFRIGERANT FLOW

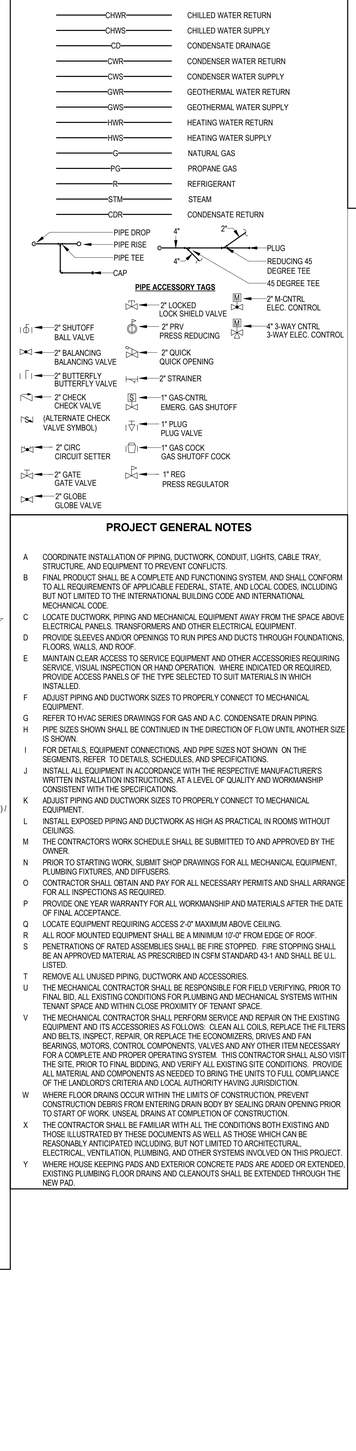
* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC SYMBOLS



PIPING SYMBOLS



PROJECT GENERAL NOTES

A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

C LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

D PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

E MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

F ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

G REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

H PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

I FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

J INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

K ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

L INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

M THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

N PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

O CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

P PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

Q LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

R ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF

S PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

T REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

U THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

V THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

W WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

X THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

Y WHERE HOUSE KEEPING PADS AND EXTERIOR CONCRETE PADS ARE ADDED OR EXTENDED, EXISTING PLUMBING FLOOR DRAINS AND CLEANOUTS SHALL BE EXTENDED THROUGH THE NEW PAD.

HVAC GENERAL NOTES

A CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.

B REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.

C CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE SCH 40 PVC.

D ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.

E COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING.

F PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.

G PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

H THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

I ALL EXTERIOR REFRIGERANT PIPING SHALL BE PROTECTED WITH METAL ALUMINUM JACKETING.

HVAC SHEET INDEX

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
Andrew M. McKeown
02/13/2025
ANDREW M. MCKEOWN, PE

HVAC TITLE SHEET

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

M000

METHOD ENGINEERING GROUP
MethodEG.com
912-963-1611

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MECHANICAL SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR MECHANICAL WORK:

INTERNATIONAL MECHANICAL CODE - 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE MECHANICAL WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL MECHANICAL WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT. THIS INCLUDES AIR DISTRIBUTION DEVICES, EXPOSED DUCTWORK, THERMOSTATS, HUMIDISTATS, SWITCHES, SENSORS, ETC. ALL THERMOSTATS AND WALL-MOUNTED SENSORS SHALL BE INSTALLED A MAXIMUM OF 48" AFF.

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR BOTH PIPING AND DUCTWORK. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

WIND ANCHORAGE REQUIREMENTS SHALL BE SUBMITTED FOR ALL CURB MOUNTED EQUIPMENT AND ROOF MOUNTED EQUIPMENT. FASTENERS SHALL BE SELECTED AND DETAILED ON A PROJECT-SPECIFIC BASIS BY A REGISTERED DESIGN PROFESSIONAL. PROVIDE CALCULATIONS FOR UNIT CONNECTIONS TO SUPPORT/CURB, AND FOR SUPPORT/CURB TO STRUCTURE. THE DESIGN WIND SPEED IS 148 MPH.

PROVIDE A TEST AND BALANCE REPORT BY A NEBB CERTIFIED TAB FIRM.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

MECHANICAL IDENTIFICATION MATERIALS:

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMANENT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

PIPING:

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE SEAMLESS COPPER SUITABLE FOR A WORKING PRESSURE OF 300 PSIG. FITTINGS SHALL BE WROUGHT COPPER OR BRASS SUITABLE FOR USE WITH HIGH TEMPERATURE SOLDER AND DESIGNED FOR 300 PSIG WORKING PRESSURE. REFRIGERANT PIPING INSULATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, WITH MINIMUM THICKNESSES AS REQUIRED BY IECC TABLE 403.2.10. PIPE INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH ALUMINUM METAL JACKETS. SUSPEND REFRIGERANT PIPING ON COPPER CLEVIS HANGERS WITH INSULATION SHIELDS. TRAPEZE-MOUNTED PIPING SHALL USE METAL STRUT CLAMPS THAT PROVIDE A CONTINUOUS INSULATION BARRIER AND/OR *CUSH-A-CLAMP* OR EQUAL. PLASTIC STRUT CLAMPS ARE NOT ACCEPTABLE.

HVAC DRAIN PIPING: HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES INDOORS SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

DUCTWORK AND ACCESSORIES:

DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.

SUPPLY AIR DUCTS AND RETURN AIR DUCTS SHALL BE G90 GALVANIZED STEEL INSULATED WITH 2" THICK R-6.7 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR AND RETURN AIR TRUNK DUCTS. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

FIRE DAMPERS (WALLS AND FLOORS): PROVIDE CURTAIN TYPE, HINGED BLADE, VERTICAL AND/OR HORIZONTAL MOUNTING FIRE DAMPERS, SUITABLE FOR DUCT PENETRATION OR OPENING PROTECTION AS REQUIRED ON THE DRAWINGS. STYLE 'A' DAMPERS SHALL BE USED AT WALL REGISTER/GRILLE LOCATIONS. STYLE 'B' DAMPERS SHALL BE USED AT DUCT PENETRATIONS. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A AND UL-555. FRAME SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL WITH 165 DEGREE F FUSIBLE LINK. BLADES SHALL BE MINIMUM 24 GAUGE GALVANIZED STEEL. DAMPERS SHALL BE AS MANUFACTURED BY *AIR BALANCE*, *GREENHECK*, *NAILOR*, *NATIONAL CONTROLLED AIR*, *PHILLIPS-AIRE*, *PREFCO*, *RUSKIN*, *SAFE-AIR* AND *UNITED*.

HVAC DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL DUCT SMOKE DETECTORS MUST BE COMPATIBLE WITH THE FIRE ALARM SYSTEM AND MUST BE CONNECTED TO THE FIRE ALARM SYSTEM FOR NOTIFICATION. ALL FIRE ALARM WIRING AND ASSOCIATED DEVICES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EACH SMOKE DETECTOR SHALL BE WIRED BY MECHANICAL CONTRACTOR INTO THE RESPECTIVE FAN CONTROL CIRCUIT TO AUTOMATICALLY SHUT DOWN THE FAN UPON SENSING PRODUCTS OF COMBUSTION.

AIR DISTRIBUTION DEVICES:

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY *TITUS*, *KRUEGER*, *METALAIRE* OR *PRICE* AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES. ALL DEVICES SHALL BE SELECTED FOR NC-20 MAXIMUM NOISE CRITERIA.

FANS:

EXHAUST FANS SHALL BE BY *GREENHECK*, *COOK* OR *PENN*. PROVIDE DISCONNECT SWITCH, ROOF CURB, AND BACKDRAFT DAMPER. ALL CURB MOUNTED EQUIPMENT SHALL BE INSTALLED TO MEET SPECIFIED WIND RATING.

AIR TREATMENT SYSTEMS:

ALL AIR HANDLERS AND ROOFTOP UNITS SHALL BE EQUIPPED WITH BIPOLAR IONIZATION AIR TREATMENT DEVICES INSTALLED AT THE SUPPLY FAN INLET. AIR TREATMENT DEVICES SHALL BE BY *GLOBAL PLASMA SOLUTIONS*, *PLASMA AIR* OR *BIOCLIMATIC*. DEVICES SHALL BE 24 VAC AND BE CONNECTED TO THE EQUIPMENT CONTROL CIRCUIT.

AIR CONDITIONERS:

ROOFTOP AIR CONDITIONERS SHALL BE BY *CARRIER*, *TRANE* OR *DAIKIN*. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, NATURAL GAS HEATER, SINGLE POINT POWER SUPPLY, WIND-RATED VIBRATION ISOLATION ROOF CURB, AND PLEATED MERV 7 FILTER. PROVIDE MINIMUM 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS.

ROOF AIR CONDITIONERS SHALL BE MOUNTED ON MATCHING ROOF CURBS WITH VIBRATION ISOLATION RAILS. SPRING DEFLECTION SHALL BE 2". VIBRATION ISOLATION RAILS SHALL BE BY *KINETICS*, *MGM PRODUCTS*, *AEROSONICS*, *VIBRO-ACOUSTICS* OR *ALADDIN*.

KITCHEN VENTILATION SYSTEM:

THE KITCHEN EQUIPMENT PROVIDER SHALL BE ALLOWED TO BID ON KITCHEN HOOD AND RELATED COMPONENTS, INCLUDING KITCHEN EXHAUST FAN AND KITCHEN SUPPLY FAN. THE MECHANICAL CONTRACTOR SHALL PROVIDE A BASE BID TO PROVIDE AND INSTALL KITCHEN VENTILATION EQUIPMENT. PROVIDE AN ALTERNATE BID WITH KITCHEN VENTILATION EQUIPMENT PROVIDED AND INSTALLED BY OTHERS.

CAPTIVEAIRE IS THE BASIS OF DESIGN MANUFACTURER. EQUIVALENT EQUIPMENT MANUFACTURED BY ACCUREX, GREASEMASTER AND GREENHECK AND SHALL BE ACCEPTABLE.

KITCHEN HOOD: TYPE I GREASE FILTER EXHAUST HOODS: THE KITCHEN HOOD SHALL BE, WHERE EXPOSED, STAINLESS STEEL TYPE 430. THE HOOD SHALL BE THE WALL CANOPY TYPE WITH FULL VERTICAL SIDE PANELS. PROVIDE LISTED STAINLESS STEEL 2" THICK PANEL TYPE GREASE FILTERS THE FULL LENGTH OF THE HOOD. FILTERS SHALL HAVE MINIMUM 90% GREASE EXTRACTION EFFICIENCY AT 7 MICRONS. HOODS WITH CEILING MAKEUP AIR PLENUM SHALL HAVE DOUBLE WALL INSULATED FRONT. PROVIDE U.L. LISTED LED LIGHTING IN THE HOOD. A PREWIRED SWITCH PLATE SHALL BE INSTALLED ON THE FACE OF THE HOOD AND SHALL INCLUDE A FAN SWITCH WITH PILOT LIGHT AND A LIGHT SWITCH. PROVIDE AN INTEGRAL KITCHEN HOOD DEMAND CONTROL VENTILATION SYSTEM TO AUTOMATICALLY REDUCE EXHAUST AND SUPPLY AIRFLOWS BASED ON DEMAND. PROVIDE A WALL-MOUNTED UTILITY CABINET FOR HOOD CONTROLS AND FIRE SUPPRESSION SYSTEM.

FIRE SUPPRESSION SYSTEM: FURNISH AN ANSUL WET CHEMICAL SYSTEM PROVIDING COMPLETE FIRE PROTECTION OF DUCT, HOOD, AND COOKING EQUIPMENT SURFACES. INSTALLATION SHALL BE IN COMPLIANCE WITH CHEMICAL MANUFACTURER'S U.L. LISTING. ALL PIPING SHALL BE RUN IN A CONCEALED MANNER. PIPING EXTENDING UP THROUGH CHASE TO DUCT AND HOOD NOZZLES SHALL BE FITTED WITH SLEEVES FORMING GREASE TIGHT JOINTS. EXPOSED PIPING OF SURFACE PROTECTION NOZZLES SHALL HAVE STAINLESS STEEL SLEEVES WITH CHROME PLATED ELBOWS. SYSTEM SHALL BE ACTIVATED BY FUSIBLE LINKS CONNECTED TO AN AUTOMAN RELEASE. FIT AUTOMAN RELEASE WITH AN ELECTRIC DOUBLE-POLE, DOUBLE-THROW MICROSWITCH FOR CONTROL CIRCUIT. SUPPLY FAN SHALL BE SHUT DOWN WHEN FIRE PROTECTION SYSTEM IS ACTIVATED, LEAVING THE EXHAUST FAN RUNNING. PROVIDE A U.L. LISTED MECHANICAL GAS VALVE, TO PROVIDE AUTOMATIC GAS FUEL SHUTOFF FOR ALL GAS OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE VALVE SHALL INCORPORATE A MANUAL RESET. PROVIDE AUXILIARY FACTORY INSTALLED RELAYS TO AUTOMATICALLY TRIP SHUNT TRIP SAFETY DEVICES FOR ELECTRICALLY OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE DEVICES SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS. ALSO PROVIDE A RELAY TO AUTOMATICALLY SIGNAL THE BUILDING FIRE ALARM SYSTEM. THE CHEMICAL CYLINDERS AND CONTROLS SHALL BE LOCATED IN FIRE CONTROL CABINET WALL MOUNTED IN THE KITCHEN. PROVIDE A REMOTE MANUAL PULL STATION AND INTERLOCK WITH SYSTEM.

GREASE DUCTS: KITCHEN HOOD EXHAUST DUCTS SHALL BE FABRICATED FROM 16 GAUGE BLACK STEEL AND SHALL BE INSULATED WITH TWO LAYERS OF FLEXIBLE FIRE-RATED DUCT WRAP SUITABLE FOR ZERO CLEARANCE TO COMBUSTIBLES. KITCHEN HOOD EXHAUST DUCTWORK JOINTS AND SEAMS SHALL HAVE LIQUID-TIGHT CONTINUOUS EXTERNAL WELD PER NFPA-96. ROUTE KITCHEN HOOD EXHAUST DUCTWORK AS DIRECTLY AS POSSIBLE. HORIZONTAL DUCTWORK MUST SLOPE MINIMUM ¼" PER FOOT TO DRAIN TOWARD THE HOOD. DO NOT CREATE DIPS AND TRAPS WHICH CAN COLLECT RESIDUE. PROVIDE NFPA-96 REMOVABLE DUCT ACCESS DOORS EVERY TWELVE FEET AND AT CHANGES IN DIRECTION. ACCESS DOORS SHALL BE SIZED TO PERMIT DUCT CLEANING. CONFORM TO NFPA-96 FOR LOCATIONS AND INSTALLATION DETAILS. AT THE EXHAUST FAN, INSTALL AN APPROVED FLEXIBLE DUCT CONNECTION.

ALTERNATIVELY, FURNISH DOUBLE WALL FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATION. THE DUCT WALL ASSEMBLY SHALL BE TESTED AND LISTED AT ¾" OR ZERO CLEARANCE, ACCORDING TO CLASSIFICATIONS. GREASE DUCT SHALL BE BY AMPCO, CAPTIVEAIRE, GREASEMASTER, SELKIRK OR METAL-FAB.

KITCHEN EXHAUST FAN: THE EXHAUST FAN SHALL BE U.L. LISTED FOR GREASE DUCT USE AND SHALL BE THE UPBLAST RESTAURANT-DUTY TYPE WITH DIRECT-DRIVEN FAN WITH BACKWARD-INCLINED BLADES, CONTAINING A BUILT-IN GREASE TROUGH AND HAVING A COMPLETELY ISOLATED MOTOR COMPARTMENT AND REMOVABLE COVER. NO BIRD SCREENS OR BACKDRAFT DAMPERS WILL BE PERMITTED PER NFPA 96. PROVIDE DISCONNECT SWITCH. PROVIDE EXHAUST DISCHARGE EXTENSION TO RAISE FAN DISCHARGE 40 INCHES MINIMUM ABOVE THE ROOF SURFACE. FURNISH SUPPORT RAILS SUITABLE FOR THE ROOF SLOPE WITH SUFFICIENT HEIGHT TO COORDINATE WITH REQUIRED EXHAUST DUCT LOCATION. PROVIDE VIBRATION ISOLATION FOR FAN. FANS SHALL BE CAPABLE OF RESISTING 142 MPH WIND LOAD.

KITCHEN SUPPLY FAN: THE MAKEUP AIR SUPPLY FAN SHALL BE THE OUTDOOR TYPE AND SHALL BE ETL LISTED. UNIT SHALL BE THE FILTERED, HORIZONTAL DISCHARGE TYPE AS SHOWN ON DRAWINGS. UNIT SHALL BE OF INTERNAL FRAME TYPE CONSTRUCTION WITH G90 GALVANIZED STEEL FRAMES AND PANELS. METAL-TO-METAL SURFACES EXPOSED TO WEATHER SHALL BE SEALED. ALL COMPONENTS SHALL BE ACCESSIBLE THROUGH REMOVABLE OR HINGED DOORS. UNIT CASING SHALL BE INSULATED WITH 1 INCH FIBERGLASS LINER IN ACCORDANCE WITH NFPA 90A AND TESTED TO MEET UL 181 EROSION REQUIREMENTS. SECURE INSULATION WITH WATERPROOF ADHESIVE AND PERMANENT MECHANICAL FASTENERS.

GAS-FIRED ROOFTOP UNIT SCHEDULE

UNIT ID	OUTSIDE AIRFLOW (CFM)	SUPPLY FAN		EVAPORATOR COOLING COIL @ 95°F O.A.				GAS-FIRED HEAT EXCHANGER				VOLT	PH	SEER 2	IEER	EER	SEACOAST PROTECTION	UNIT WEIGHT (LB)	BASIS OF DESIGN	REMARKS
						ENTERING AIR				AIRSIDE										
	MAX	AIRFLOW (CFM)	ESP (IN. WG)	TOTAL (MBH)	SENSIBLE (MBH)	DB (°F)	WB (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)									
RTU-5T	200	2000	1.00	59	44	80	67	67	54	65	90	208	3	14	0	11	Yes	850	CARRIER 48FE	SINGLE STAGE COOLING / DEHUM - HOT GAS REHEAT
RTU-6T	240	2400	1.00	72	55	80	67	110	88	65	98	460	3	0	15	11	Yes	925	CARRIER 48FE	TWO STAGE COOLING / STAGED AIR VOLUME / DEHUM - HOT GAS REHEAT

1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
2. PROVIDE AIR TREATMENT DEVICE FOR ALL ROOFTOP UNITS.
3. PROVIDE ENTHALPY ECONOMIZER FOR EACH RTU.

FAN SCHEDULE

UNIT ID	UNIT TYPE	AIRFLOW (CFM)	ESP (IN. WG)	DRIVE TYPE	RPM	MOTOR POWER (HP)	FAN INLET SONE	VOLT	PH	BASIS OF DESIGN	REMARKS
EF-1	CENTRIFUGAL DOWNBLAST	100	0.10	DIRECT	1101	0.01	2	115	1	GREENHECK G-060-VG	INTERLOCK W/ WALL SWITCH
KEF-1	CENTRIFUGAL UPBLAST	1500	1.00	DIRECT	1274	0.75	10	208	3	ECON-AIR EADU85H	INTERLOCK W/ KITCHEN HOOD
KSF-1	ROOF SUPPLY FAN	1350	1.00	DIRECT	1720	0.74	20	208	3	ECON-AIR EA-A1-15D	INTERLOCK W/ KITCHEN HOOD

1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
2. PROVIDE INTEGRAL BACKDRAFT DAMPER FOR EF-1.
3. PROVIDE FILTER FOR KSF-1

ELECTRIC HEATER SCHEDULE

ID	TYPE	AIRFLOW (CFM)	CAPACITY (KW)	VOLT	PH	BASIS OF DESIGN	REMARKS
EH-1	HEAVY DUTY WALL HEATER	100	1.5	208	1	QMARK AWH	

1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	QTY	FACE SIZE	NECK SIZE	NECK WIDTH	NECK HEIGHT	INSTALLATION TYPE	MATERIAL	BASIS OF DESIGN
RG2	EGGCRATE RETURN GRILLE	2	24x24		22"	22"	LAY-IN INSTALLATION	ALUMINUM	Titus 50F
RG11	LOUVERED GRILLE	2			6"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	Titus 350FL
RG11	LOUVERED GRILLE	2			24"	30"	SURFACE MOUNT INSTALLATION	ALUMINUM	Titus 350FL
SD1	PLAQUE FACE DIFFUSER	1	12x12	6"			SURFACE MOUNT INSTALLATION	ALUMINUM	Titus OMNI
SD1	PLAQUE FACE DIFFUSER	3	12x12	8"			SURFACE MOUNT INSTALLATION	ALUMINUM	Titus OMNI
SD3	PERFORATED DIFFUSER WITH DEFLECTORS	3	24x24	8"			LAY-IN INSTALLATION	ALUMINUM	Titus PAS-AA
SD3	PERFORATED DIFFUSER WITH DEFLECTORS	3	24x24	12"			LAY-IN INSTALLATION	ALUMINUM	Titus PAS-AA
SD3	PERFORATED DIFFUSER	2	24x24	14"			LAY-IN INSTALLATION	ALUMINUM	Titus PAS-AA
SG11	LOUVERED SINGLE DEFLECTION GRILLE	2			6"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	Titus 301FL

LINEAR SLOT DIFFUSER SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	MATERIAL	FINISH	SYSTEM	LINEAR DIFFUSER SLOT WIDTH	LINEAR DIFFUSER SLOT QTY	LINEAR DIFFUSER PLENUM NOM. LENGTH	NECK SIZE	TOTAL TRACK LENGTH	INSTALLATION BORDER TYPE	SPECIFICATION
LSD2	LINEAR SLOT DIFFUSER	Titus	FL-15	4	ALUMINUM	WHITE ENAMEL	S/A	1 1/2"	2	2' - 0"	6"	8' - 0"	DEFAULT	ARCHITECTURAL LINEAR SLOT DIFFUSER
LSD2	LINEAR SLOT DIFFUSER	Titus	FL-15	5	ALUMINUM	WHITE ENAMEL	S/A	1 1/2"	2	3' - 0"	8"	15' - 0"	DEFAULT	ARCHITECTURAL LINEAR SLOT DIFFUSER

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Revisions

No	Date	Description

HVAC SCHEDULES & SPECIFICATIONS

Status FOR CONSTRUCTION
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Project No. 2404.00
Drawing No.

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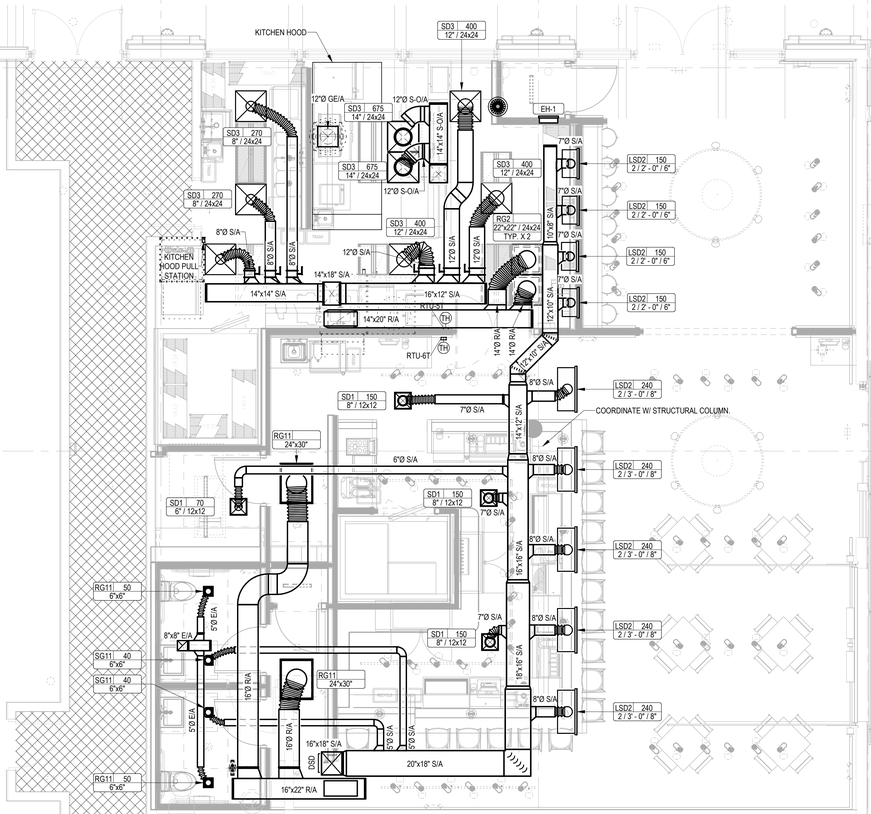

HVAC SHEET NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.

B. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.

C. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.

D. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE, WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.

E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.

F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.

G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS. ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT A MINIMUM OF 1/8" /12" SLOPE.

H. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.

I. ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.

J. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.

K. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.

L. THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

1 LEVEL 1 HVAC PLAN

1/4" = 1'-0"

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Revisions

No	Date	Description

GEORGIA REGISTERED ARCHITECT Andrew M. Wilkerson 02/13/2025 ANDREW M. WILKERSON

HVAC PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00

Drawing No.

M101

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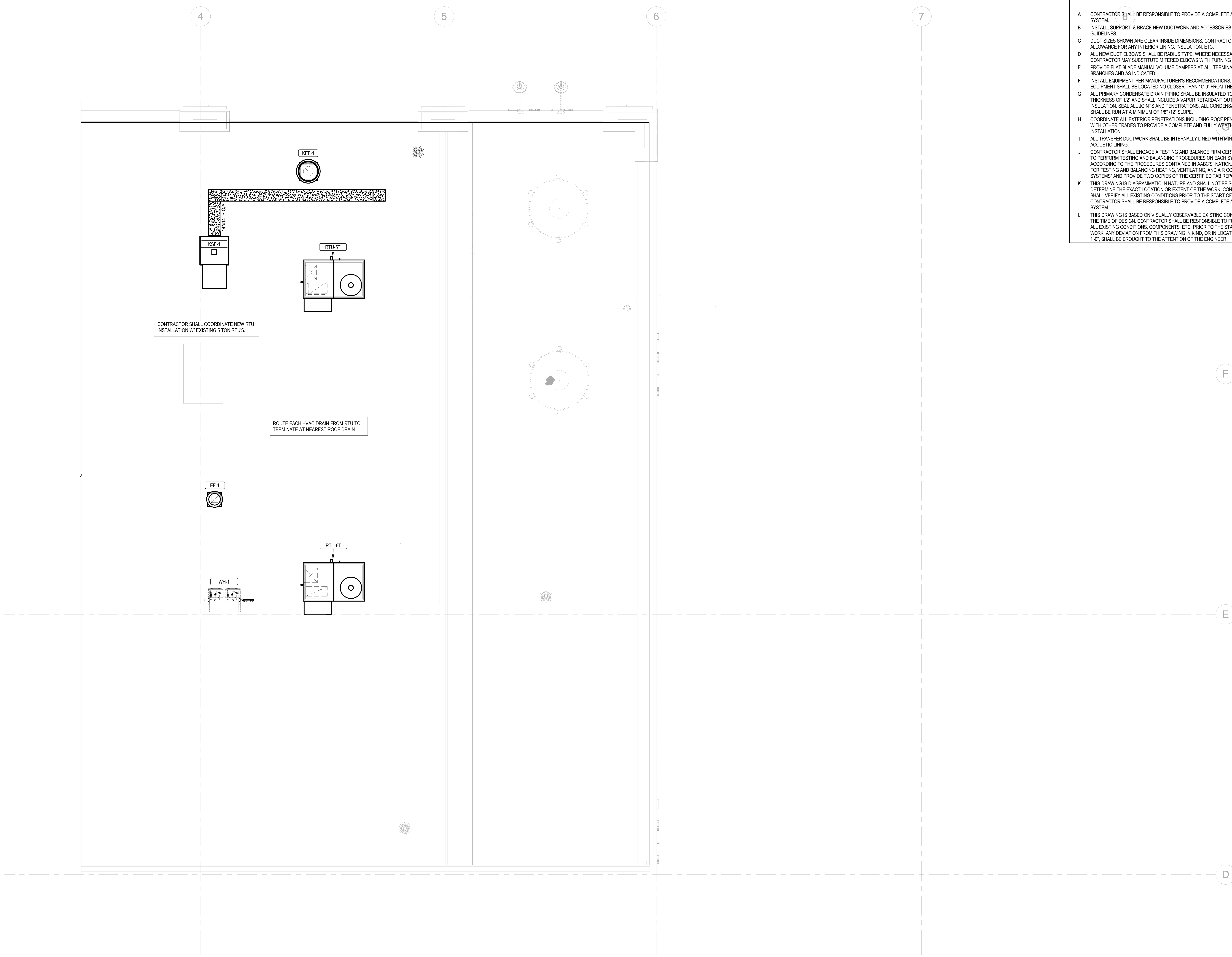

HVAC SHEET NOTES

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- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
- G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS. ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT A MINIMUM OF 1/8" /12" SLOPE.
- H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- I ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
- J CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS. FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
- K THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- L THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

1 ROOF HVAC PLAN
1/4" = 1'-0"

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Revisions

No	Date	Description

02/13/2025

ROOF HVAC PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
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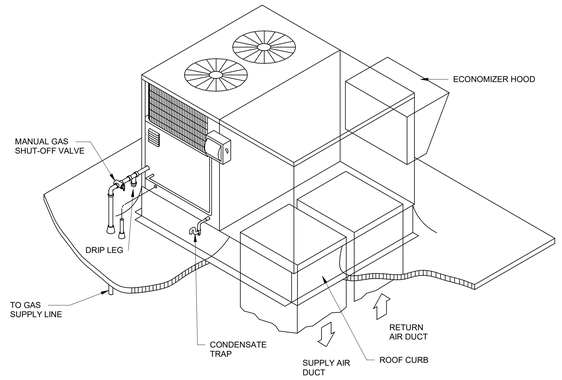
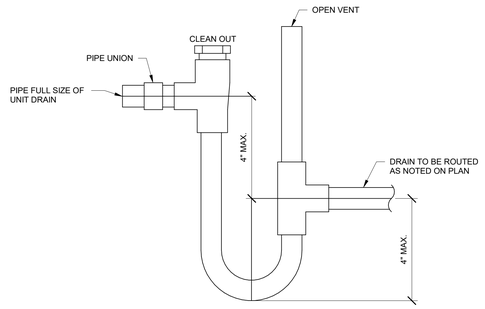


NOT TO SCALE

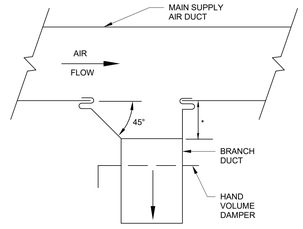
1 GAS FIRED ROOFTOP AIR CONDITIONER DETAIL



NOTES:
1. PIPING SHALL MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT IN THE DIRECTION OF DISCHARGE.
2. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

NOT TO SCALE

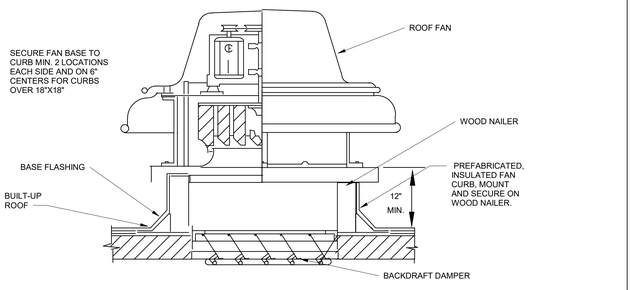
2 CONDENSATE DRAIN DETAIL



*-EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

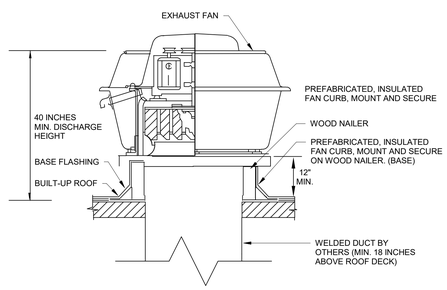
NOT TO SCALE

3 DUCT TAKE-OFF DETAIL



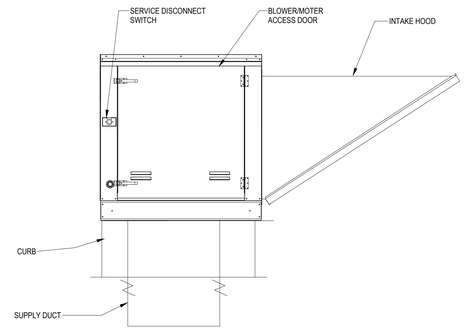
NOT TO SCALE

4 ROOF-MOUNTED EXHAUST FAN DETAIL - DOWNBLAST



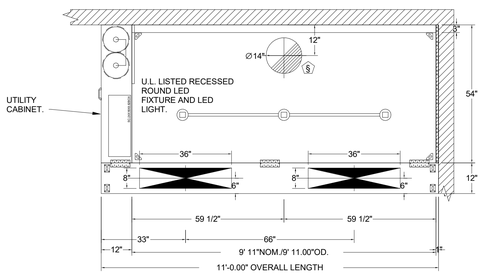
NOT TO SCALE

5 ROOF-MOUNTED KITCHEN HOOD EXHAUST FAN DETAIL - UPBLAST



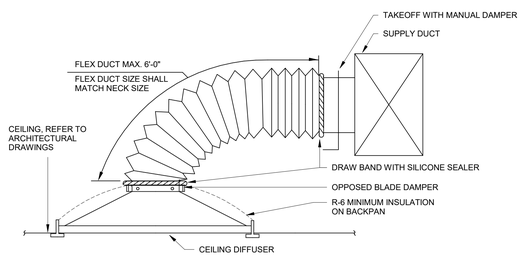
NOT TO SCALE

6 KITCHEN SUPPLY FAN



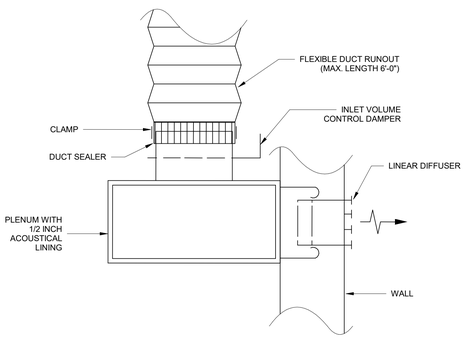
NOT TO SCALE

7 KITCHEN EXHAUST HOOD DETAIL



NOT TO SCALE

8 TYPICAL DIFFUSER CONNECTION (SIDE)



NOT TO SCALE

9 LINEAR SIDEWALL DIFFUSER CONNECTION

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Revisions

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GEORGIA REGISTERED ARCHITECT ANDREW M. MCSHEEHY
02/12/2025

HVAC DETAILS

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ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A, AMP	AMPERE
AC	ABOVE COUNTER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SW
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SABC	SMALL APPLICANCE BRANCH CIRCUIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SPD	SURGE PROTECTION DEVICE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL SYMBOL LEGEND

LIGHTING SYMBOLS

- LIGHTING FIXTURES, TYPICAL, RECTANGULAR (VARIOUS SYMBOLS) FILLED CIRCLES INDICATE RECESSED, OPEN CIRCLES INDICATE SURFACE-MOUNTED DIAGONAL LINE INDICATES LENSED OUTER DOTS INDICATE SUSPENDED
- LIGHTING FIXTURES, TYPICAL, ROUND CENTER DOT INDICATES PENDANT DIAGONAL LINE INDICATES LENSED CHEVRON INDICATES WALL WASH
- WALL-MOUNTED FIXTURES, TYPICAL
- STRIP FIXTURE
- DIRECTIONAL LIGHT, TRACK, FLOOD
- LINEAR LIGHT, TAPE LIGHT
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY
- EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
- EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
- EXIT/ELU COMBO
- POLE/AREA LIGHTS
- POST-TOP AREA LIGHT
- BOLLARD LIGHT
- DIAGONAL HATCH INDICATES EMERGENCY LIGHT
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- KEYED SWITCH
- LOW VOLTAGE MOMENTARY PUSHBUTTON OR DECORATOR SWITCH
- SWITCH W/PILOT
- DIMMER SWITCH
- FAN SPEED CONTROLLER. COORDINATE TYPE WITH FAN MANUFACTURER.
- OS — OCCUPANCY SENSOR W/ MANUAL SWITCH
- VS — VACANCY SENSOR W/ MANUAL SWITCH
- OS D — OCCUPANCY SENSOR W/ 0-10V DIMMER
- VS D — VACANCY SENSOR W/ 0-10V DIMMER
- OS — OCCUPANCY SENSOR, CEILING MOUNTED
- VS — VACANCY SENSOR, CEILING MOUNTED
- OS — CORRIDOR OCCUPANCY SENSOR, CEILING MOUNTED
- TIMER SWITCH
- TIME DELAY SWITCH
- TC — TIME CONTROL SWITCH

LIGHTING TAGS

S3 / 2d

- TOP VALUE: FIXTURE TYPE ID
- BOTTOM VALUE: LOWERCASE LETTER: SWITCH ID
- BOTTOM VALUE: NUMBER(S): CIRCUIT NUMBER

ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "nl" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT (UNSWITCHED).

SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "a" CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT IS LOCATED TAGGED WITH "a". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS OR CONTACTORS.

POWER SYMBOLS

WALL / CEILING / FLOOR

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE
- SPECIAL RECEPTACLE, TYPE AS INDICATED
- JUNCTION BOX
  - RECEPTACLE MODIFIERS:
  - ##": HEIGHT AFF OC
  - AC: ABOVE COUNTER
  - WP: WEATHERPROOF IN-USE COVER W/ WR RATED GFI RECEPTACLE
  - WPD: WEATHERPROOF NOT-IN-USE COVER W/ WR RATED GFI RECEPTACLE
  - IG: ISOLATED GROUND
  - USB: DUPLEX RECEPTACLE WITH (1) USB-C AND (1) USB-A CONNECTION
- CENTER SHADING INDICATES GFI
- HALF SHADING INDICATES SPLIT (TYPICALLY SWITCHED)
- OUTER SHADING INDICATES EMERGENCY
- MULTIOUTLET ASSEMBLY, FILLED SQUARES INDICATED 120V OUTLETS
- RANGE RECEPTACLE, NEMA 14-50R
- CORD REEL, DEVICE VARIES
- DROP CORD, DEVICE VARIES
- FLOORBOX, TYPE AS INDICATED
- POKE THRU DEVICE, TYPE AS INDICATED
- EPO — EMERGENCY POWER OFF SWITCH
- METER
- SAFETY SWITCH, NON-FUSED
- SAFETY SWITCH, FUSED
- MOTOR STARTER
- COMBINATION STARTER/DISCONNECT
- PUSHBUTTON
- MOTOR
- GROUND BAR

POWER DEVICE AND EQUIPMENT TAGS

1d — ELECTRICAL DEVICE TAGS: THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER (WHERE APPLICABLE). EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d".

XX-1 — EQUIPMENT TAGS: EQUIPMENT ID IS INDICATED BY AN UNDERLINED TAG ADJACENT TO THE EQUIPMENT. SEE THE EQUIPMENT CONNECTION SCHEDULE FOR DESCRIPTION, ELECTRICAL REQUIREMENTS, AND PANEL AND CIRCUIT NUMBER. SYMBOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES.

POWER DISTRIBUTION EQUIPMENT

SB1 MDP HP1A LP1A

HATCHED FILL INDICATES DISTRIBUTION PANEL OR SWITCHBOARD.
SOLID FILL INDICATES BRANCH PANEL OR LOAD CENTER.
DASHED BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH AND DEPTH). DOOR INDICATES FRONT OF RECESSED PANEL.

T1 — TRANSFORMER: TYPICALLY TRANSFORMER NAMES BEGIN WITH OR CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION AND REQUIREMENTS.

WIRING

- CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 1/2" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.
- #10 — CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.
- P4N-102 / 1, 3, 5 — HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5. LONG TICKMARKS INDICATE NUMBER OF PHASE CONDUCTORS. SHORT TICK MARKS INDICATE NUMBER OF GROUNDED CONDUCTORS (NEUTRALS). AN EQUIPMENT GROUNDING CONDUCTOR IS NOT INDICATED BUT SHALL BE INSTALLED. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS.
- CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS
- CONDUIT IN FLOOR

TELECOM SYMBOLS

WALL / CEILING / FLOOR

- DATA OUTLET
- VOICE OUTLET
- DATA/VOICE OUTLET
- WIRELESS ACCESS POINT
- CATV OUTLET

SECURITY SYMBOLS

- WALL MOUNTED SECURITY CAMERA
- CEILING MOUNTED SECURITY CAMERA
- CR — CARD READER
- CK — CARD READER W/ KEYPAD
- DC — DOOR CONTACT
- ES — ELECTRIC STRIKE
- ML — MAGNETIC LOCK
- COMBINATION LOCK
- REQUEST TO EXIT BUTTON
- MD — MOTION DETECTOR
- SECURITY SYSTEM KEYPAD

SOUND SYSTEM SYMBOLS

- WALL MOUNTED SPEAKER
- CEILING MOUNTED SPEAKER
- VOLUME CONTROL

CONSTRUCTION PHASING

(TYPICAL ALL SYMBOLS AND EQUIPMENT)

- (E) — EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW
- EXISTING TO BE DEMOLISHED

MISCELLANEOUS

- AREA NOT IN CONTRACT
- KEY NOTE (SEE SCHEDULE)
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- REVISION NUMBER - SHOWN ON PLANS
- Room 6 — ROOM NAME AND NUMBER

FIRE ALARM SYMBOLS

- MANUAL PULL STATION
- HORN/STROBE, WALL
- HORN/STROBE, CEILING
- STROBE, WALL
- STROBE, CEILING
- SPEAKER/STROBE, WALL
- SPEAKER/STROBE, CEILING
- FIRE ALARM BELL
- HEAT DETECTOR
- SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR
- SMOKE DAMPER
- DOOR HOLDER
- DOOR CLOSER
- FIRE SERVICE PHONE
- CONTROL MODULE AT FLOW SWITCH
- MONITOR MODULE AT TAMPER SWITCH
- MONITOR MODULE AT POST INDICATOR VALVE

ELECTRICAL SHEET INDEX

ELECTRICAL GENERAL NOTES

A THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

B LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES OR INSTALLED WHERE EXPOSED AND SUBJECT TO PHYSICAL DAMAGE. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS. LOW VOLTAGE CABLES SHALL BE PLENUM RATED IN PLENUM SPACES.

C COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

D PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING ,UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2% ON FEEDERS PER ENERGY CODE.

E IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BY NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.

F COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.

G LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.

H CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

I PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.

J FIELD COORDINATE FINAL MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY. PROVIDE ADDITIONAL BRANCH CIRCUITS FROM SPARE CIRCUIT BREAKERS TO ACCOMMODATE ANY CONTROL PANELS AND ACCESSORIES REQUIRING POWER.

K ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.

L MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNO.

M PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED,AND MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS.

N THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.

O SECURITY SYSTEM TO BE PROVIDED UNDER SEPARATE CONTRACT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE CONDUIT PROVISIONS, BACK BOXES, ROUGH-INS, SLEEVES AND POWER TO HEAD END EQUIPMENT FOR EXACT REQUIREMENTS PRIOR TO START OF WORK.

P CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

Q CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED BELOW. THESE ITEMS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
- TV OUTLETS
- VOLUME CONTROLS
- TELEPHONE OUTLETS
- DATA OUTLETS
- FIRE ALARM DEVICES

R FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:
- 1"C TV OUTLETS
- 1/2"C VOLUME CONTROLS
- 3/4"C DOOR SECURITY DEVICES (CARD READERS, DOOR STRIKES ETC.)
- 1"C TELEPHONE OUTLETS
- 1"C DATA OUTLETS
- 3/4"C FIRE ALARM DEVICES

ELECTRICAL REMODEL NOTES

A BRANCH CIRCUITING INDICATED ON PLANS AND SCHEDULES IS BASED UPON EXISTING PLANS AND SITE OBSERVATION, CONTRACTOR TO FIELD VERIFY.

B PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

C PROVIDE NECESSARY DEMOLITION TO FACILITATE NEW CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT. COORDINATE OUTAGES WITH OWNER MINIMUM 72 HOURS IN ADVANCE. OWNER RETAINS RIGHT TO FIRST SALVAGE. PROVIDE DISPOSAL OF REMOVED MATERIAL. MAINTAIN CIRCUIT CONTINUITY AS REQUIRED.

D IT IS THE INTENT OF THESE DIAGRAMMATIC DRAWINGS TO PROVIDE THE PROJECT SCOPE INCLUDING, BUT NOT LIMITED TO PHASED DEMOLITION AND NEW CONSTRUCTION. EXISTING INFORMATION INDICATED ON THESE PLANS DOES NOT REPRESENT ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF PHASING, AND PROJECT INTENT PRIOR TO BID SUBMISSION.

E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F REMOVE ABANDONED WIRING COMPLETE. AT CONTRACTORS OPTION, UTILIZE EXISTING ABANDONED RACEWAY TO EXTENT AVAILABLE. EXPOSED ABANDONED RACEWAY SHALL BE REMOVED.

G COORDINATE WORK IN PHASES WITH GENERAL CONTRACTOR AND OWNER TO FACILITATE DEMOLITION AND NEW CONSTRUCTION.

H REMOVE ELECTRICAL RELATED EQUIPMENT (I.E JUNCTION BOXES, RECEPTACLES, SWITCHES, DEVICES, ETC...) AFFECTED/ABANDONED AS A RESULT OF DEMOLITION AND NEW CONSTRUCTION.

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Revisions

No	Date	Description

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE041545 2/13/25 CHRISTOPHER G. SHAFFER

ELECTRICAL TITLE SHEET

Status	FOR CONSTRUCTION
Date	02-13-2025
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ELECTRICAL SPECIFICATIONS

1. GENERAL:

   A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK OF THIS SECTION. ALL MATERIALS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS AND SHALL BE UL LISTED..

   B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC 2020 EDITION), STATE LAWS AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.

   C. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.

   D. ALL ELECTRICAL JUNCTION BOXES, PANELBOARDS, CABLING, RECEPTACLES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.

   E. THE CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT TAXES, FEES, DEPOSITS AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN NECESSARY APPROVALS OF ALL AGENCIES HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS FOR WORK.

   F. STORE MATERIALS AND EQUIPMENT ON PREMISES WHERE DIRECTED BY THE OWNER.

   G. THE CONTRACTOR SHALL COOPERATE TO THE FULLEST WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PLAN HIS WORK IN SUCH A WAY, AND FURNISH ALL NECESSARY EQUIPMENT AND INFORMATION TO THE OTHER TRADES SO AS NOT TO DELAY ANY OTHER TRADE OR HINDER THE PROGRESS OF WORK.

   H. ANY CONTRADICTIONS BETWEEN THE WRITTEN SPECIFICATIONS AND DRAWINGS SHALL BE CONSIDERED AMBIGUOUS, AND WILL BE THE RESPONSIBILITY OF THE BIDDER TO SECURE CLARIFICATION PRIOR TO BIDDING.

   I. SUBMITTALS

      a. SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA AND LITERATURE FOR ALL MATERIALS SPECIFIED HEREIN. INDICATE AND HIGHLIGHT ON THE SUBMITTALS DETAILS OF ALL ITEMS TO INDICATE CORRECT INTERPRETATION OF THE CONTRACT DOCUMENTS.

      b. SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC FORMAT (PDF).

2. PRODUCTS:

   A. ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.

   B. RACEWAY SYSTEM
      a. ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC.
      b. ALL RACEWAYS SHALL BE RGS OR IMC WHERE EXPOSED TO DAMAGE AND PUBLIC IN UNFINISHED SPACES. RACEWAYS SHALL BE SURFACE METAL RACEWAY (WIREMOLD) WHERE EXPOSED TO DAMAGE AND PUBLIC IN FINISHED SPACES.
      c. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT.
      d. ALL RACEWAYS SHALL BE 1/2" MINIMUM SIZE.
      e. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT.
      f. CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE. EXCEPT THAT STEEL, SET SCREW TYPE WILL BE ACCEPTABLE FOR EMT CONDUIT SIZES 2-1/2" AND LARGER.
      g. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH FIRE RATED CAULK TO PREVENT TRANSFER OF SMOKE, WATER AND DUST.
      h. FLEXIBLE METAL CONDUIT WITH APPROVED TYPE FITTINGS MAY BE USED IN LIMITED LENGTHS FOR CONNECTIONS TO MOTORS AND RECESSED FIXTURES WHERE IT IS NECESSARY TO PROVIDE FLEXIBLE CONNECTIONS.
      i. METAL-CLAD CABLE IS ALLOWED WHERE PERMITTED IN NEC. HOMERUNS TO PANEL SHALL BE IN EMT AND CONCEALED.
      j. PROVIDE 200# NYLON PULLSTRING IN ALL EMPTY RACEWAY.

   C. BOXES
      a. PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS.
      b. PROVIDE CAST ALUMINUM BOX FOR ALL EXTERIOR WET LOCATIONS.
      c. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1-1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4-11/16" SQUARE BY 2-1/8" DEEP.
      d. PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.
      e. TILE COVER DEPTH SHALL BE SELECTED FOR EACH WALL TYPE ON THE PROJECT.
      f. BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.
      g. ATTACH EMT CONDUIT WITH CONNECTORS WITH INSULATED THROATS.

   D. WIRE AND CABLES
      a. PROVIDE AND INSTALL ALL WIRING AND CABLE AS REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED ON THE PLANS.
      b. ALL CONDUCTORS #10 GAUGE AND SMALLER SHALL BE SOLID COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
      c. ALL CONDUCTORS #8 GAUGE AND LARGER SHALL BE STRANDED COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
      d. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG.
      e. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS FOR A, B AND C PHASES. NEUTRAL SHALL BE WHITE FOR 120/208V. GROUND CONDUCTOR SHALL BE GREEN.

   E. WIRING DEVICES
      a. PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, LEGRAND, LUTRON OR EATON.
      b. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY-DUTY TYPE RECEPTACLES 2-POLE, 3-WIRE GROUNDING, SIDE WIRING, NEMA 5-20R, 20-AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE.
      c. WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" COVERS, UNO.
      d. EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT "WR" TYPE.
      e. LIGHT SWITCHES SHALL BE RATED 20 AMPS, 120V AC RATED.
      f. ADJACENT DEVICES SHALL HAVE A COMMON FACEPLATE.
      g. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURER'S RECOMMENDED SIZE AND MODEL FOR EACH SPACE. EXACT LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL BUILDING AUTOMATION, WATTSTOPPER, COOPER, AND ACUITY.
      h. FINISH OF ALL WIRING DEVICES SHALL BE COORDINATED WITH ARCHITECT WITH MID-SIZE 302 STAINLESS STEEL COVERS.

   F. LIGHTING FIXTURES
      a. CONTRACTOR SHALL PROVIDE ALL LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. SERIES NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED ITEMS FOR A COMPLETE SYSTEM SHALL BE INCLUDED.
      b. LED FIXTURES SHALL HAVE A L70 RATING OF AT LEAST 50,000 HOURS.
      c. LED FIXTURES AND DRIVERS SHALL HAVE A 5 YEAR WARRANTY.
      d. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN.
      e. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED WITH 1000 LUMEN EMERGENCY BATTERY PACKS, UNO.

   G. SERVICE
      a. PROVIDE ELECTRICAL SERVICE AS SHOWN ON DRAWINGS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER OR POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CLOSELY COORDINATE ENTIRE INSTALLATION WITH OWNER AND POWER COMPANY AS REQUIRED.
      b. PROVIDE TELEPHONE SERVICE RACEWAYS FROM THE CONNECTION POINT TO LOCATION SHOWN ON PLANS. COORDINATE TELEPHONE INSTALLATION REQUIREMENTS AND POINT OF CONNECTION WITH TELEPHONE COMPANY.

   H. PANELBOARDS
      a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
      b. PROVIDE PANELBOARDS OF THE TYPE, SIZE, AND RATING INDICATED ON PANEL SCHEDULES COMPLETE WITH REQUIRED CIRCUIT BREAKERS.
      c. LIGHTING AND APPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 20" WIDE.
      d. ALL BUSBARS, INCLUDING NEUTRAL AND GROUND BUSBARS, SHALL BE COPPER.
      e. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE, HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSED COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE.
      f. PANELS SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT LISTED ON THE PANEL SCHEDULE.
      g. PROVIDE LAMINATED PLASTIC NAMEPLATE.
      h. CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING TYPE CIRCUIT BREAKERS.
      i. PROVIDE NEW/UPDATED TYPED SCHEDULES FOR ALL PANELBOARDS. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.

   I. GROUNDING
      a. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NATIONAL ELECTRIC CODE. ALL GROUND SYSTEMS AND CONNECTIONS SHALL BE MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS.
      b. PROVIDE ELECTRICAL BRAZING OR EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS.
      c. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR NO OTHER PURPOSE.
      d. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS.
      e. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN.
      f. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER-CLAD STEEL, SECTIONAL TYPE.

   J. DISCONNECT SWITCHES
      a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
      b. PROVIDE HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK-BREAK TYPE SWITCHES.
      c. ALL SWITCHES SHALL BE UL LISTED.
      d. DISCONNECTS SHALL BE NON-FUSED TYPE, UNO.

   L. SPD
      a. ACCEPTABLE MANUFACTURERS ARE SURGE SUPPRESSION, CURRENT TECHNOLOGIES, LIEBERT, EATON, SQUARE D AND ADVANCED PROTECTION TECHNOLOGIES.
      b. PROVIDE SPD UNITS CONNECTED IN PARALLEL WITH POWER DISTRIBUTION EQUIPMENT.
      c. SPD UNITS SHALL BE MOUNTED EXTERNAL TO POWER DISTRIBUTION EQUIPMENT,UNO.
      d. SPD FOR SERVICE EQUIPMENT SHALL BE AS FOLLOWS: SINGLE PULSE SURGE CAPACITY PER MODE: 150,000 AMPS AND MODES: L-L, L-N, AND L-G.
      e. ALL SPD UNITS SHALL HAVE A 5-YEAR REPAIR/REPLACEMENT WARRANTY FROM MANUFACTURER IN THE NAME OF THE OWNER.
      f. NON-DWELLING UNIT SPD'S SHALL HAVE PHASE LED INDICATOR LIGHTS AND DISTURBANCE COUNTER.
      g. FOR EXTERNAL SPD UNITS, INSTALL ADJACENT TO ELECTRICAL EQUIPMENT, ENSURING THAT LEAD LENGTHS ARE AS SHORT AS POSSIBLE TO ACHIEVE MAXIMUM PROTECTION. CONNECT TO CIRCUIT BREAKER IN ELECTRICAL EQUIPMENT AS SHOWN ON THE MANUFACTURER'S WIRING DIAGRAMS.

   M. FIRE ALARM SYSTEM
      a. APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF NFPA No. 70 AND 72, CURRENT ADOPTED EDITION, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR WORK ASSOCIATED WITH THE FIRE ALARM SYSTEM.
      b. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
      c. THIS IS A PERFORMANCE-BASED SPECIFICATION. THE SYSTEM SPECIFIED HEREIN SHALL BE DESIGNED BY THE MANUFACTURER OR AN AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER WHO IS EITHER A REGISTERED FIRE PROTECTION ENGINEER OR A NICET CERTIFIED ENGINEERING TECHNOLOGIST.
      d. FOR EXISTING FIRE ALARM SYSTEMS, NEW DEVICES SHALL BE A PRODUCT OF THE EXISTING MANUFACTURER. PROVIDE ALL COMPONENTS NECESSARY FOR INTEGRATION OF NEW DEVICES WITH EXISTING SYSTEM.
      e. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS. ALL MATERIALS SHALL CONFORM TO U.L. AND NEMA REQUIREMENTS.
      f. PROVIDE INTELLIGENT, ADDRESSABLE, ANALOG FIRE ALARM SYSTEM.
      g. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT SYSTEM.
      h. IT IS THE RESPONSIBILITY OF THE MANUFACTURER'S REPRESENTATIVE TO SUBMIT APPROPRIATE DRAWINGS, CALCULATIONS, AND OTHER SUPPORTING DOCUMENTS TO THE AUTHORITY HAVING JURISDICTION FOR PERMIT APPROVAL.

3. EXECUTION

   A. WORKMANSHIP
      a. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH CODE REQUIREMENTS AND THE RESPECTIVE MANUFACTURER'S INSTRUCTIONS.

   B. TEMPORARY POWER
      a. FURNISH AND INSTALL TEMPORARY LIGHT AND POWER AS MAY BE REQUIRED BY ALL TRADES.

   C. SUPPORTS
      a. PROVIDE ALL MATERIALS AND LABOR REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGTHEN EQUIPMENT AND MATERIALS FURNISHED AS PART OF THIS WORK.
      b. ALL RACEWAYS, BOXES, ETC., SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE, INDEPENDENT OF DUCT, PIPING OR OTHER WORK.

   D. BRANCH CIRCUITS
      a. PROVIDE ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS.
      b. CONTRACTOR SHALL CAREFULLY CHECK MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS TO ESTABLISH EXTENT OF POWER TO BE PROVIDED.

   E. CLEANING
      a. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK.
      b. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC.
      c. PROVIDE IDENTIFICATION PLATES ON ALL EQUIPMENT.

LIGHTING FIXTURE SCHEDULE

TYPE	CONSTRUCTION				LIGHT SOURCE						ELECTRICAL					PRODUCT		NOTE	TYPE
	DESCRIPTION	FINISH	LENS/LOUVER	MOUNTING	LAMP	LUMENS DOWN	LUMENS UP	CCT	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLT	WATTS	W/ft	EMERGENCY COMPONENT	MFR	MODEL		
A	2X4 FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	4300 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 10%	120 V	50 W		--	METALUX COLUMBIA	CGTS SERIES CPX SERIES		A
AE	2X4 FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	4300 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 10%	120 V	50 W		BATTERY (1000 LUMEN MIN)	METALUX COLUMBIA	CGTS SERIES CPX SERIES		AE
B	2X2 FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	3700 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 10%	120 V	35 W		--	METALUX COLUMBIA	CGTS SERIES CPX SERIES		B
C	4" DOWNLIGHT	CLEAR	SEMI-SPECULAR	RECESSED	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	15 W		--	HALO COMMERCIAL LITHONIA	HC4 SERIES LDN4 SERIES	--	C
D	CHANDELIER	SELECTED BY OWNER	--	SUSPENDED	LED	3000 lm	0 lm	3500 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	200 W		--	SELECTED BY OWNER	SELECTED BY OWNER	--	D
E1	DECORATIVE PENDANT	SELECTED BY OWNER	--	SUSPENDED	LED	2500 lm	0 lm	3500 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	60 W		--	SELECTED BY OWNER	SELECTED BY OWNER	--	E1
E2	DECORATIVE PENDANT	SELECTED BY OWNER	--	SUSPENDED	LED	2500 lm	0 lm	3500 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	60 W		--	SELECTED BY OWNER	SELECTED BY OWNER	--	E2
EW1	ELU INDOOR, TWO HEAD	WHITE	--	SURFACE WALL	LED	270 lm	0 lm	5000 K	80	--	--	120 V	4 W		BATTERY	SURE-LITE LITHONIA	SEL2S SERIES ELM2L SERIES	--	EW1
F	4' STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/ SURFACE	LED	4000 lm	0 lm	4000 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		--	METALUX LITHONIA	SNLED SERIES CSS SERIES	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF	F
FE	4' STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/ SURFACE	LED	4000 lm	0 lm	4000 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		--	METALUX LITHONIA	SNLED SERIES CSS SERIES	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF	FE
H	STRING LIGHTING	WHITE	FROSTED	--	LED	360 lm	0 lm	3000 K	90	50,000 HOURS	REMOTE LED DRIVER, 0-10V 1% DIMMABLE	120 V	110 W	4.8	--	CELESTIAL LIGHTING	HYDRA LS SERIES	LUMENS PER FOOT	H
I	EXTERIOR DECORATIVE SCONCE	SELECTED BY OWNER	DECORATIVE	SURFACE WALL	LED	1935 lm	0 lm	3500 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMABLE, 10%	120 V	60 W		--	SELECTED BY OWNER	SELECTED BY OWNER	--	I
T1	TRACK HEAD, FLOOD	SELECTED BY OWNER	--	TRACK	LED	2878 lm	0 lm	3500 K	90	50,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	34 W		--	SELECTED BY OWNER	SELECTED BY OWNER		T1
TS1	LIGHTING TRACK, SINGLE-CIRCUIT, WHITE	SELECTED BY OWNER	--	CEILING SURFACE	LED	0 lm	0 lm	0 K	0	--	--	120 V	<varies>	45	--	SELECTED BY OWNER	SELECTED BY OWNER		TS1
XCD1	EXIT SIGN, DIE CAST, 1-SIDED	BRUSHED ALUMINUM WITH BLACK HOUSING AND RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	5 W		BATTERY	LITHONIA SURE-LITES	LE SERIES CX SERIES	--	XCD1

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ELECTRICAL SPECIFICATIONS

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LIGHTING SHEET NOTES

A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.

B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

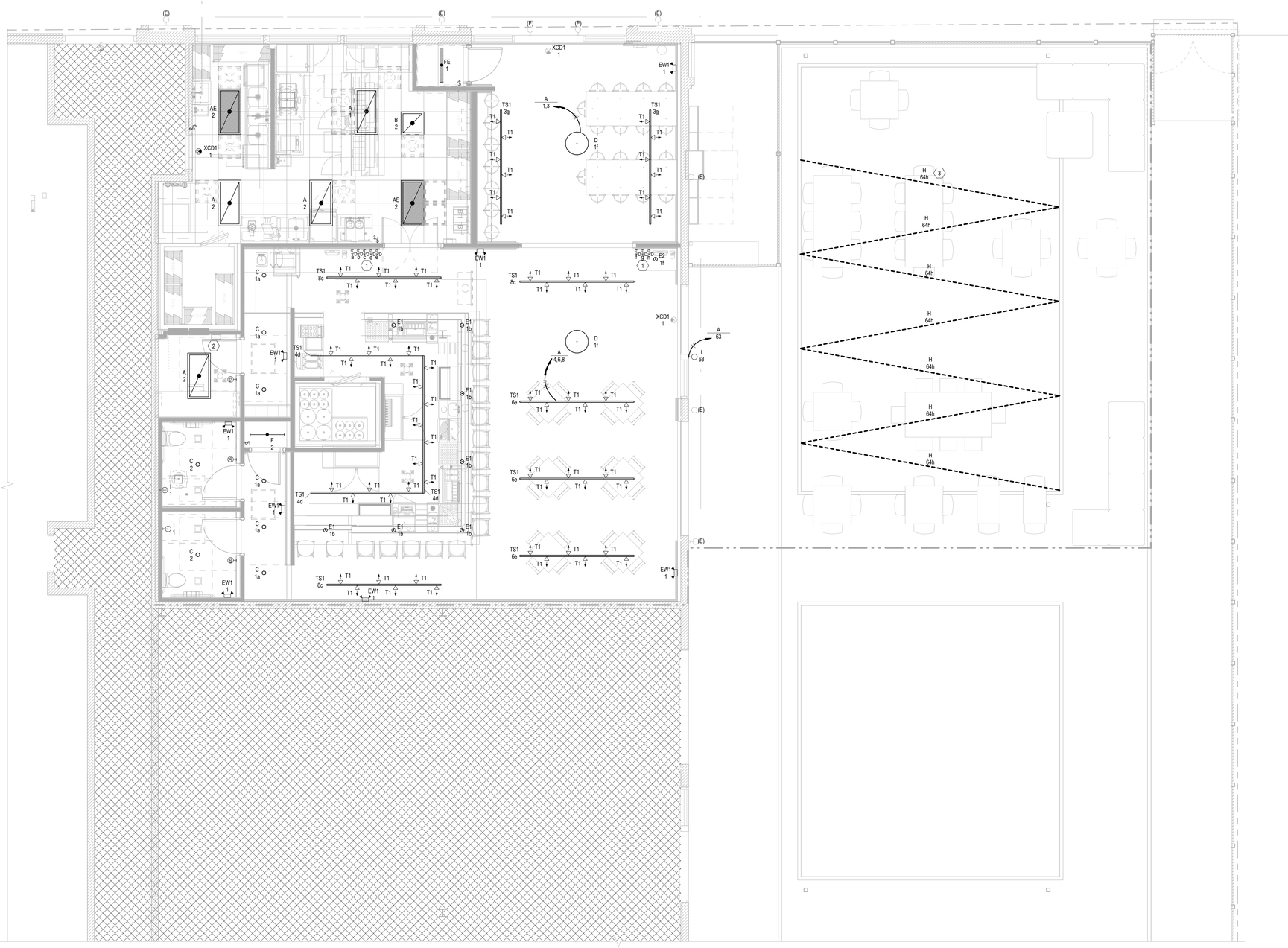
F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

KEYNOTES

1 COORDINATE EXACT LOCATION OF DIMMERS WITH OWNER PRIOR TO ROUGH-IN.

2 PROVIDE 8 POLE LIGHTING CONTACTOR PANEL WITH TIMECLOCK. ROUTE ALL LIGHTING CIRCUITS THROUGH 24/7 PROGRAMMABLE CONTACTOR PANEL FOR AUTOMATIC SHUTOFF.

3 COORDINATE EXACT PLACEMENT OF STRING LIGHTING WITH ARCHITECT.



1 LEVEL 1 LIGHTING PLAN

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Revisions

No	Date	Description

GEORGIA CERTIFICATE No. PE036545 PROFESSIONAL ENGINEER CHRISTOPHER G. SHAFFER 2/13/25

LIGHTING PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

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ELECTRICAL EQUIPMENT SCHEDULE

	EQUIPMENT INFORMATION						CIRCUIT INFORMATION			CONTROL			DISCONNECT				
ID	WATTAGE	FLA	MCA	MOCP	VOLT	PH	PANEL	NO.	WIRE & CONDUIT SIZE	DESCRIPTION	FURNISH	INSTALL	DESCRIPTION	FURNISH	INSTALL	NOTES	ID
Electric Heater																	
EH-1	1500 W	12.5 A	15.6 A	20 A	120 V	1	A	83	1/2"C, 1#12, #12N, #12G	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	MANUF - INTEGRAL	MANUF.	MANUF.		EH-1
Exhaust Fan																	
EF-1	156 W	1.3 A	1.6 A	15 A	120 V	1	A	2	1/2"C, 1#12, #12N, #12G	DIV. 26 - TIMER SWITCH	DIV. 26	DIV. 26	MANUF - INTEGRAL	MANUF.	MANUF.		EF-1
Hood																	
KEF-1	937 W	2.6 A	3.3 A	15 A	208 V	3	A	85,87,89	1/2"C, 3#12, #12G	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26	KITCHEN HOOD FANS ARE ROUTED FROM BREAKER TO CONTROL PANEL AT KITCHEN HOOD AND THEN UP TO FANS ON THE ROOF.	KEF-1
KSF-1	1117 W	3.1 A	3.9 A	15 A	208 V	3	A	84,86,88	1/2"C, 3#12, #12G	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	MANUF - INTEGRAL	MANUF.	MANUF.	KITCHEN HOOD FANS ARE ROUTED FROM BREAKER TO CONTROL PANEL AT KITCHEN HOOD AND THEN UP TO FANS ON THE ROOF.	KSF-1
Pump																	
HWC-1	864 W	7.2 A	9.0 A	15 A	120 V	1	A	82	1/2"C, 1#12, #12N, #12G	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		HWC-1
Rooftop Unit																	
RHP-1	9727 W	27.0 A	31.0 A	45 A	208 V	3	A	91,93,95	3/4"C, 3#8, #10G	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		RHP-1
RHP-2	9504 W	26.4 A	31.0 A	45 A	208 V	3	A	92,94,96	3/4"C, 3#8, #10G	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		RHP-2
Water Heater																	
WH-1	960 W	8.0 A	10.0 A	15 A	120 V	1	A	81	1/2"C, 1#12, #12N, #12G	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		WH-1

KEYNOTES

1 CONNECTION FOR EXHAUST HOOD. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH EXHAUST HOOD INSTALLER.

2 CONNECTION FOR HEAT LAMPS. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH HEAT LAMP INSTALLER.

3 CONNECTION FOR LIGHTING IN PLANTERS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

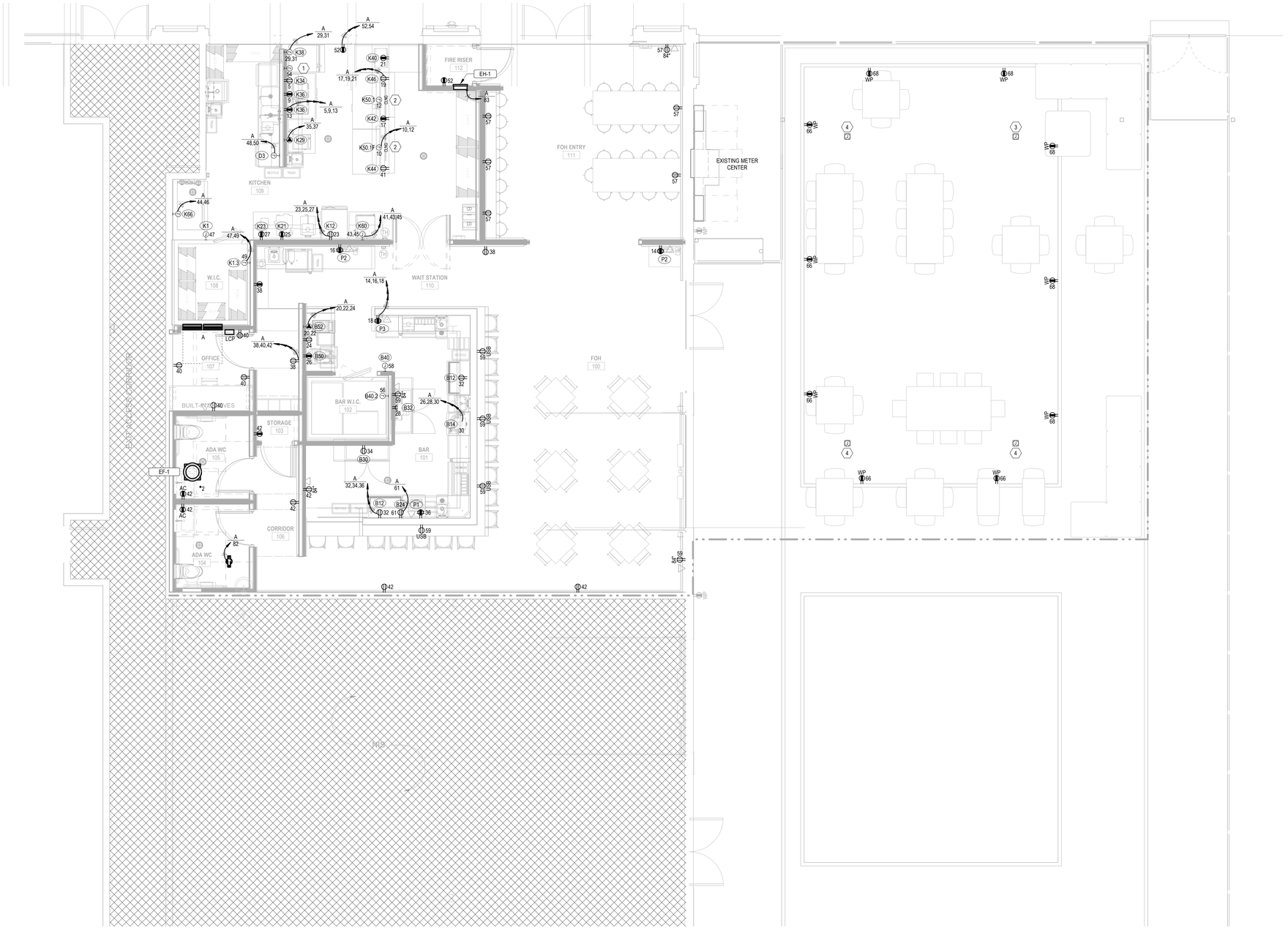
POWER SHEET NOTES

A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.



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Revisions

No	Date	Description

GEORGIA REGISTERED No. PEO015245 PROFESSIONAL ENGINEER CHRISTOPHER G. SHAFFER
2/13/25

POWER PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

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1 LEVEL 1 POWER PLAN
1/4" = 1'-0"

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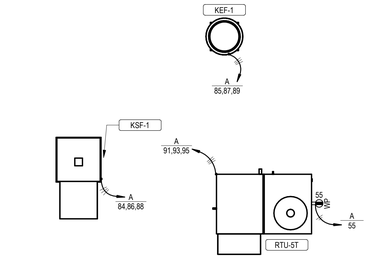

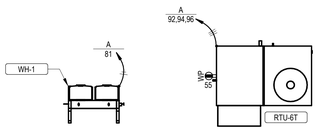

POWER SHEET NOTES

A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

ADDITIONAL ROOF POWER SHEET NOTES

A WHERE BRANCH CIRCUITS TO EQUIPMENT ARE INSTALLED HORIZONTALLY ABOVE THE ROOF, PROVIDE ROOF SUPPORTS SUCH THAT CONDUITS ARE INSTALLED APPROXIMATELY 6" ABOVE ROOF. BASIS OF DESIGN ROOF SUPPORT SHALL BE EATON DURA-BLOK. CONDUCTORS AMPACITIES, INCLUDING EQUIPMENT GROUNDING CONDUCTOR, SHALL BE INCREASED BY 10%, AND A MINIMUM ONE SIZE ABOVE WHAT IS INDICATED ON EQUIPMENT CONNECTIONS SCHEDULE. CONDUIT SHALL BE INCREASED AS NECESSARY FOR NEW SIZE CONDUCTORS PER NEC FILL CAPACITIES.

B COORDINATE WITH DIV. 23 FOR LOCATIONS OF EQUIPMENT AND MOUNTING OF RECEPTACLES TO EQUIPMENT OR SUPPORT STRUCTURES. PROVIDE ADDITIONAL RECEPTACLES ON SAME RECEPTACLE CIRCUIT AS REQUIRED TO HAVE A RECEPTACLE WITHIN 25' OF ALL EQUIPMENT.

KITCHEN EQUIPMENT SCHEDULE

		LOAD							DISCONNECT		CONNECTION				
NO.	DESCRIPTION	WATTS	FLA	MCA	MOCP	VOLT	PHASE	CONDUIT & WIRE SIZE	COMPONENT	FURNISHED / INSTALLED	TYPE	FURNISHED / INSTALLED	MTG HT	NOTES	NO.
B12	BOTTLE COOLER	184 VA	1.5 A	1.9 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	38 1/2"		B12
B14	GLASSWASHER	420 VA	3.5 A	4.4 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		B14
B30	BACK BAR CABINET	264 VA	2.2 A	2.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		B30
B32	BACK BAR CABINET	264 VA	2.2 A	2.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		B32
B40	WALK-IN BEV. COOLER CONTROLS	1200 VA	10.0 A	12.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	TOGGLE SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			B40
B40.1	WALK-IN COOLER EVAPORATOR	1186 VA	5.7 A	7.1 A	15 A	208 V	1	1/2"C, 1#12, #12N, #12G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			B40.1
B40.2	WALK-IN BEV. COOLER EVAPORATOR	240 VA	2.0 A	2.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	TOGGLE SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			B40.2
B50	FROZEN DRINK MACHINE	1440 VA	12.0 A	15.0 A	20 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	52"		B50
B52	ESPRESSO MACHINE	6240 VA	30.0 A	37.5 A	40 A	208 V	1	3/4"C, 2#8, #10G	NEMA L6-30R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	52"		B52
B52.1	ESPRESSO MACHINE	360 VA	3.0 A	3.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		B52.1
D3	DISHWASHER	6240 VA	30.0 A	37.5 A	40 A	208 V	1	3/4"C, 2#8, #10G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26	24"		D3
K1	WALK-IN COOLER CONTROLS	1200 VA	10.0 A	12.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	TOGGLE SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K1
K1.1	WALK-IN COOLER EVAPORATOR	1186 VA	5.7 A	7.1 A	15 A	208 V	1	1/2"C, 1#12, #12N, #12G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K1.1
K1.3	WALK-IN COOLER EVAPORATOR	240 VA	2.0 A	2.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	TOGGLE SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K1.3
K12	REACH-IN FREEZER	900 VA	7.5 A	9.4 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		K12
K21	FOOD SLICER	576 VA	4.8 A	6.0 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	48"		K21
K23	FOOD PROCESSOR	840 VA	7.0 A	8.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	48"		K23
K29	INDUCTION RANGE	2600 VA	12.5 A	15.6 A	20 A	208 V	1	1/2"C, 2#12, #12G	NEMA 6-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	48"		K29
K34	REFRIGERATED WORK TOP	264 VA	2.2 A	2.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		K34
K36	PANINI GRILL	1800 VA	15.0 A	18.8 A	20 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	48"		K36
K38	CONVECTION OVEN	5824 VA	28.0 A	35.0 A	40 A	208 V	1	3/4"C, 2#8, #10G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K38
K40	MICROWAVE OVEN	1608 VA	13.4 A	16.8 A	20 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	66"		K40
K42	CONVEYOR TOASTER	1788 VA	14.9 A	18.6 A	20 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	48"		K42
K44	PREP REFRIGERATOR	240 VA	2.0 A	2.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		K44
K46	PREP REFRIGERATOR	648 VA	5.4 A	6.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF	24"		K46
K50.1	HEAT LAMP	1130 VA	9.4 A	11.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K50.1
K50.1F	HEAT LAMP	1130 VA	9.4 A	11.8 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26			K50.1F
K60	COFFEE TEA BREWER	5200 VA	25.0 A	31.3 A	35 A	208 V	1	3/4"C, 2#8, #8N, #10G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	MANUF / MANUF	52"		K60
K66	ICE MAKER	2600 VA	12.5 A	15.6 A	20 A	208 V	1	1/2"C, 2#12, #12G	MOTOR RATED SWITCH	DIV. 26/DIV. 26	DIRECT	DIV. 26/DIV. 26	66"		K66
P1	POS	1200 VA	10.0 A	12.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF			P1
P2	POS	1200 VA	10.0 A	12.5 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF			P2
P3	Printer	800 VA	6.7 A	8.3 A	15 A	120 V	1	1/2"C, 1#12, #12N, #12G	NEMA 5-20R	DIV. 26/DIV. 26	CORD & PLUG	MANUF / MANUF			P3

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Revisions

No	Date	Description

GEORGIA REGISTERED No. PE024545 PROFESSIONAL ENGINEER CHRISTOPHER G. SHAFFER 2/13/25

ROOF POWER PLAN

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

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1/4" = 1'-0"

1 ROOF POWER PLAN

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1/4" = 1'-0"
LEVEL 1 SYSTEMS PLAN

SYSTEMS SHEET NOTES

A COORDINATE ALL ROUGH-IN REQUIREMENTS AND LOCATIONS OF LOW VOLTAGE DEVICES WITH LOW VOLTAGE INSTALLER.

H ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

KEYNOTES

1 CONNECTION FOR EXHAUST HOOD CONTROL CABINET TO FIRE ALARM SYSTEM.

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SYSTEMS PLAN

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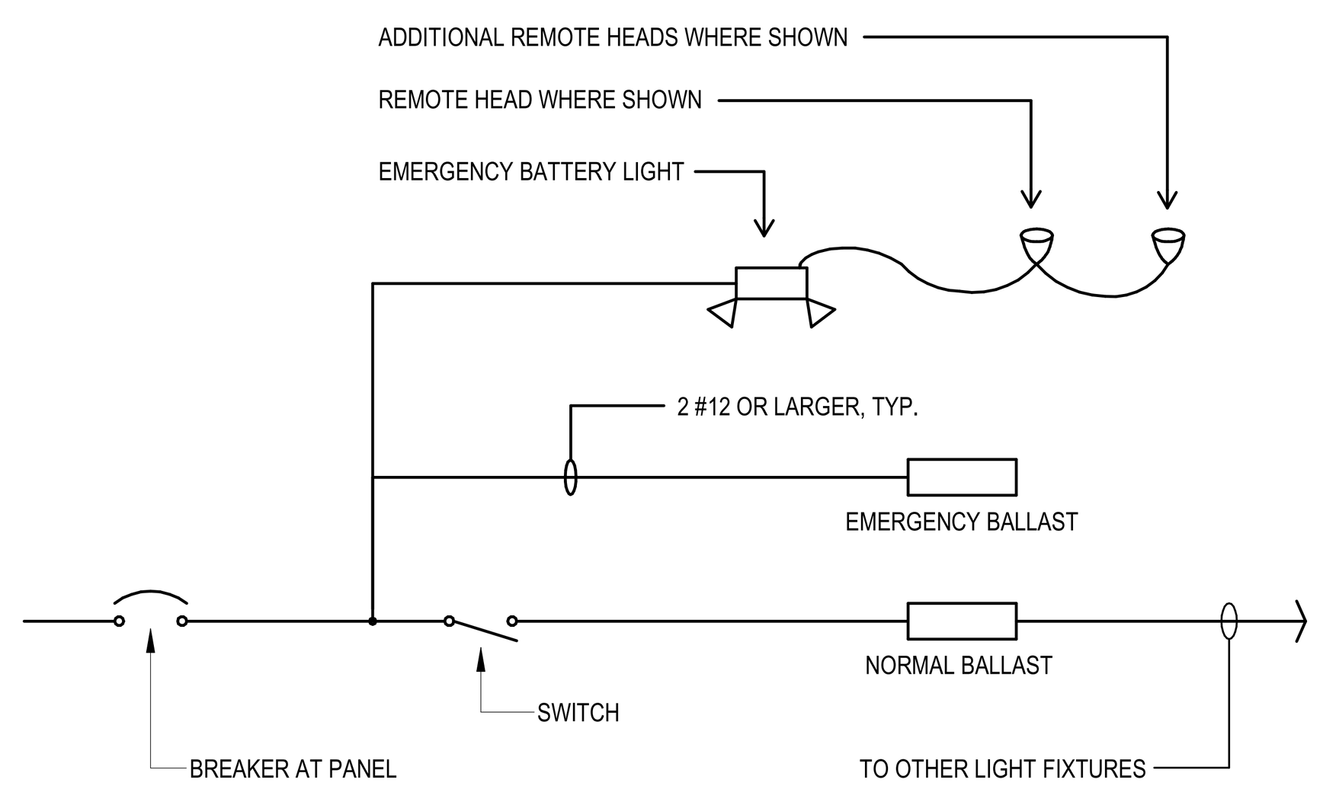
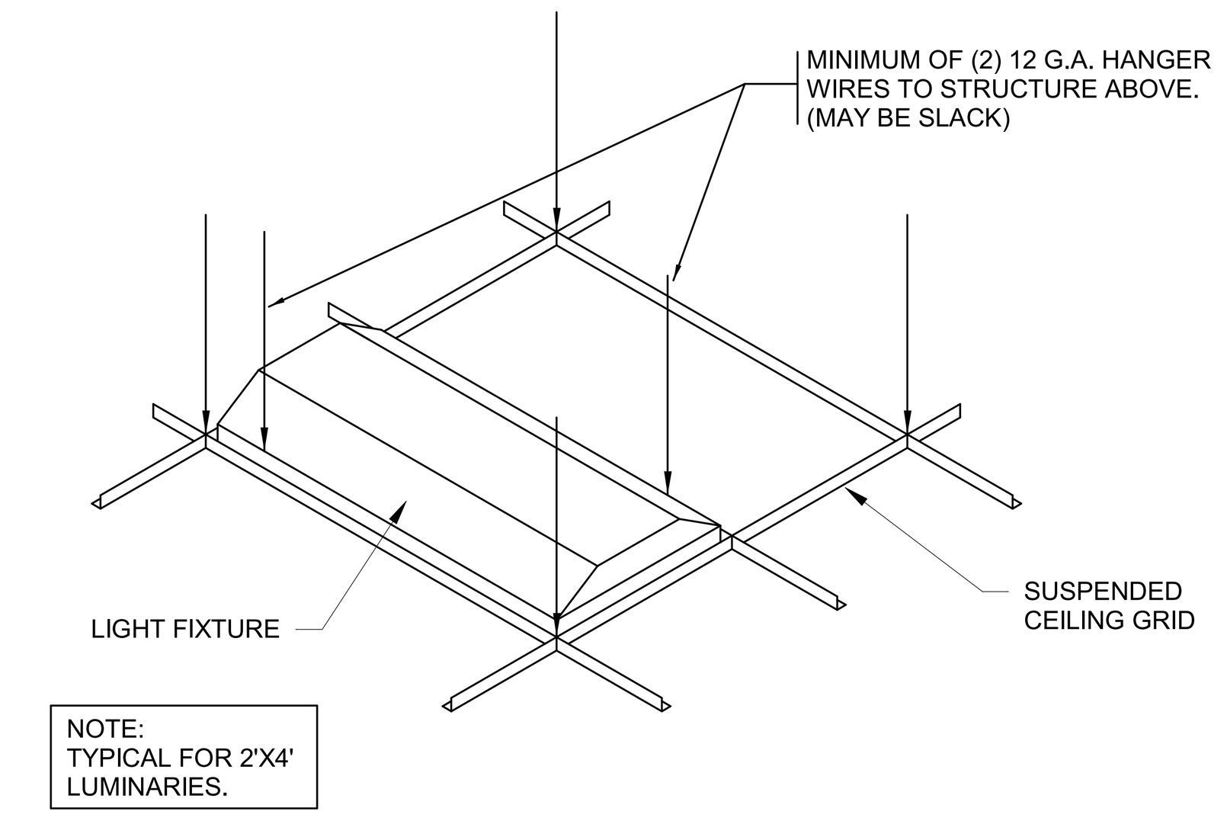


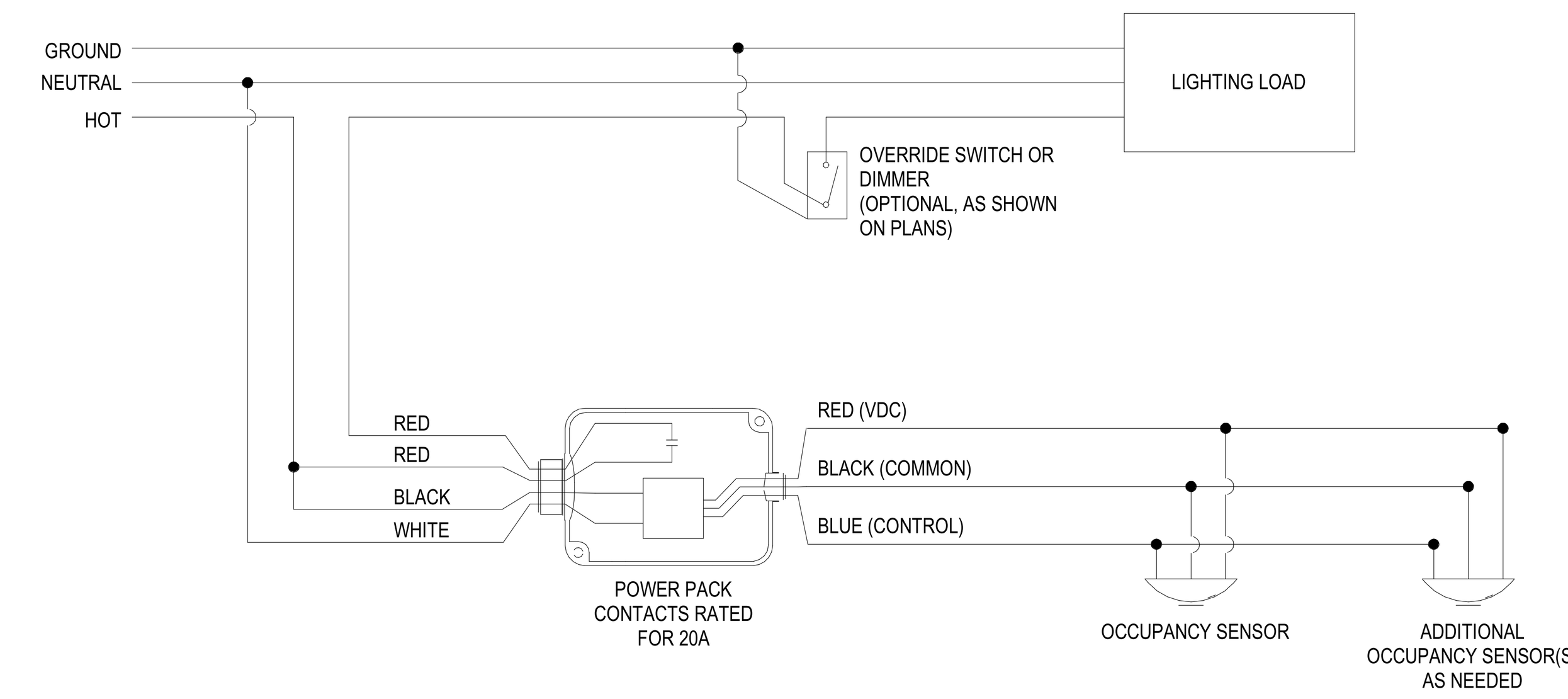
NOT TO SCALE

1 EMERGENCY LIGHTING WIRING DIAGRAM



NOT TO SCALE

2 LIGHT SUPPORT DETAIL



NOTES

1. LIGHTING WILL TURN ON AUTOMATICALLY WHEN ANY OCCUPANCY SENSOR IN THE ZONE DETECTS MOTION.
2. LOW VOLTAGE WIRE TO BE 18AWG.
3. THIS IS DIAGRAMMATIC ONLY. USE WIRING DIAGRAMS FROM OCCUPANCY SENSOR AND SWITCH MANUFACTURER.

NOT TO SCALE

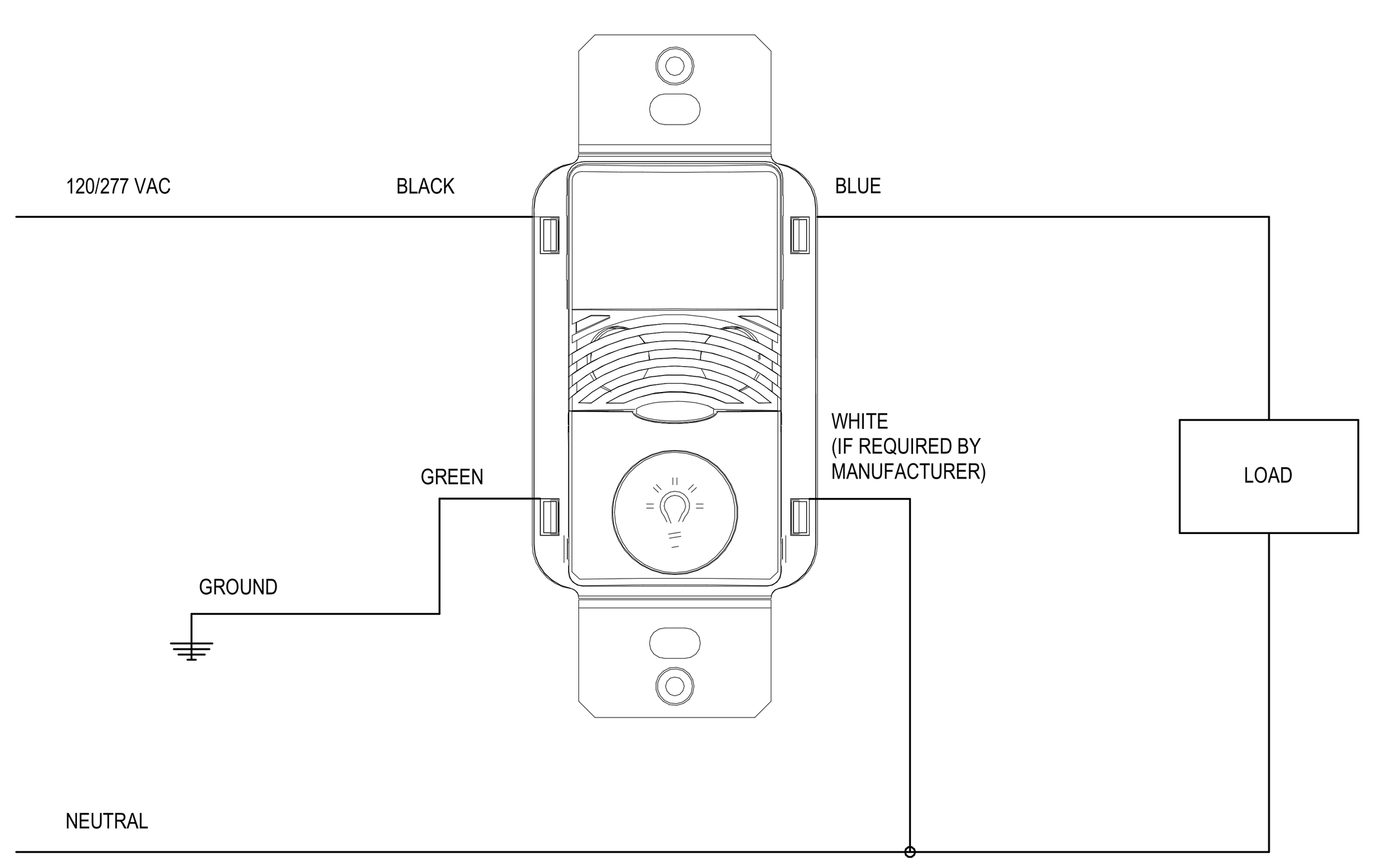
3 OCCUPANCY SENSOR DETAIL

VACANCY (MANUAL ON/AUTO OFF) MODE

1. SWITCH IS REQUIRED TO TURN LOAD ON.
2. LOAD TURNS OFF WHEN SENSOR TIMES OUT OR WITH SWITCH.

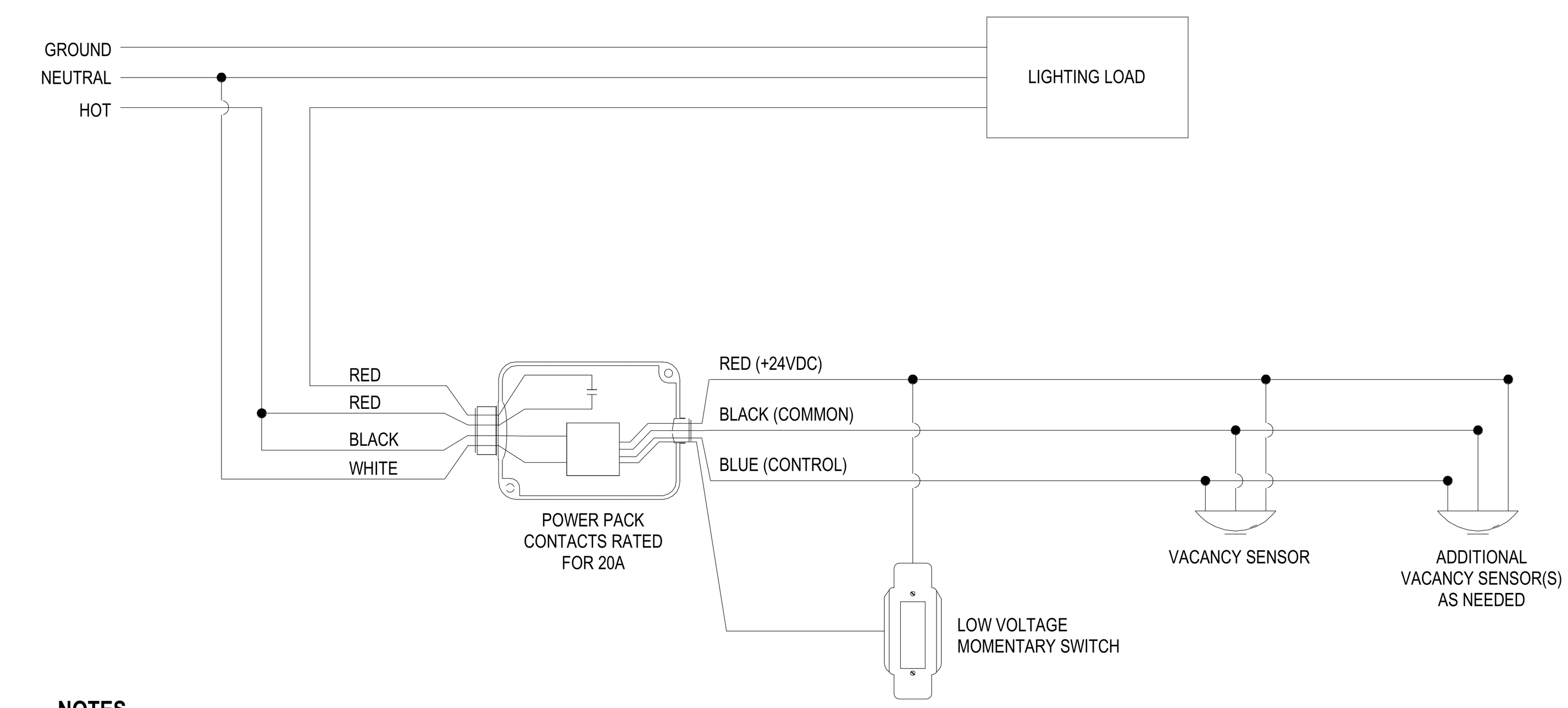
OCCUPANCY (AUTO ON/AUTO OFF) MODE

1. WHEN SENSOR ACTIVATES, LOAD TURNS ON.
2. SWITCH CAN BE USED TO TURN LOAD ON OR OFF.



NOT TO SCALE

4 WALL MOUNTED OCCUPANCY/VACANCY SENSOR

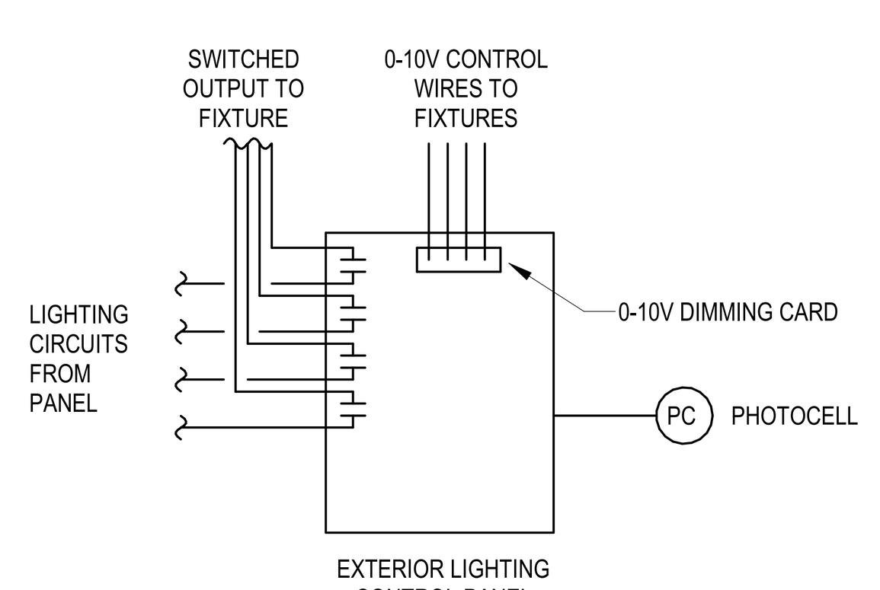


NOTES

1. DO NOT ATTEMPT TO POWER MORE THAN 4 DEVICES, BE IT SENSORS OR SLAVE PACKS, FROM A SINGLE POWER PACK.
2. LOW VOLTAGE SWITCH STATION IS REQUIRED TO TURN THE LIGHTING LOAD ON. THE LIGHTING LOAD WILL TURN OFF IF EITHER THE SWITCH STATION IS PRESSED OFF OR IF OCCUPANCY IS LOST.
3. LOW VOLTAGE WIRE TO BE 18AWG.
4. THIS IS DIAGRAMMATIC ONLY. USE WIRING DIAGRAMS FROM OCCUPANCY SENSOR AND SWITCH MANUFACTURER.

NOT TO SCALE

5 VACANCY SENSOR DETAIL



NOTES

1. LIGHTING CONTROL PANEL SHALL HAVE ASTRONOMICAL TIMECLOCK.
2. EXTERIOR LIGHTING CIRCUITS SHALL TURN ON WITH PHOTOCELL WHEN NOT ENOUGH LIGHT IS PRESENT AND REDUCE BY 30% BETWEEN HOURS OF 12AM AND 6AM. AT 6AM EXTERIOR LIGHTS CAN INCREASE TO 100% UNTIL THEY TURN OFF WHEN ENOUGH LIGHT IS PRESENT.
3. LIGHTING EXEMPT FROM REDUCING BY 30% IS LIGHTING INTEGRAL TO SIGNAGE AND LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS.
4. FACADE AND LANDSCAPE LIGHTING SHALL BE TURNED OFF BETWEEN THE HOURS OF 12AM AND 6AM.

LIGHTING CONTROL SCHEDULE

ZONE	DESCRIPTION	CIRCUIT	CONTROL TYPE	NOTES
1	LIGHTING - DINING	A-1	TIME-ON/TIME-OFF W/ DIMMING	
2	TRACK LIGHTING	A-3	TIME-ON/TIME-OFF W/ DIMMING	
3	TRACK LIGHTING	A-4	TIME-ON/TIME-OFF W/ DIMMING	
4	TRACK LIGHTING	A-6	TIME-ON/TIME-OFF W/ DIMMING	
5	TRACK LIGHTING	A-8	TIME-ON/TIME-OFF W/ DIMMING	
6	EXTERIOR SCONCE	A-63	PHOTO-ON/PHOTO-OFF	
7	SPARE	--	DIMMING CAPABLE	
8	SPARE	--	DIMMING CAPABLE	

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6 LIGHTING CONTROL DETAIL

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Revisions

No	Date	Description

ELECTRICAL DETAILS

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
Drawing No.	

E400

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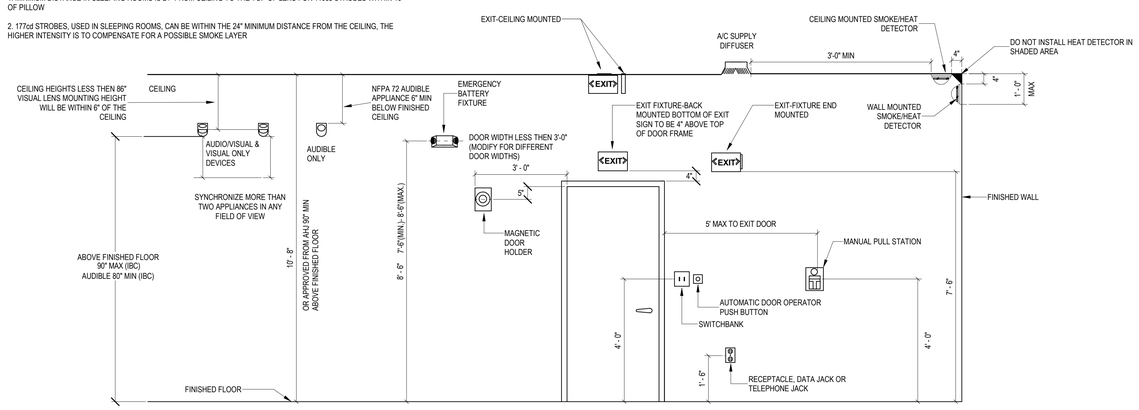
VISUAL MOUNTING APPLIANCE MOUNTING HEIGHT IN SLEEPING ROOMS:

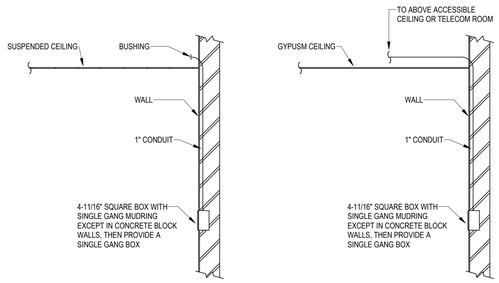
1. MINIMUM DISTANCE IN SLEEPING ROOMS IS 24" FROM CEILING TO THE TOP OF LENS FOR 110cd STROBES WITHIN 16' OF PILLOW

2. 177cd STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" MINIMUM DISTANCE FROM THE CEILING, THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER



1/2" = 1'-0"

8 TYPICAL MOUNTING HEIGHTS



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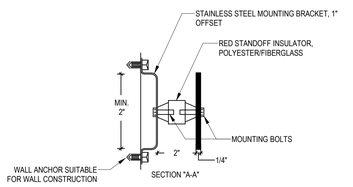
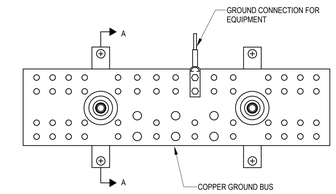
9 TELEPHONE/COMPUTER STUB UP DETAIL





FRONT ELEVATION

NOTES:

1. MINIMUM SIZES:
   4"WIDE X 20" LONG FOR TELECOMMUNICATIONS MAIN GROUND BAR
   2"WIDE X 12" LONG FOR TELECOMMUNICATIONS GROUND BAR
2. ALL GROUNDING AND BONDING SHALL BE IN ACCORDIANCE WITH NEC, TIA/EIA AND UL STANDARDS.
3. LENGTH OF GROUND BAR SHALL BE AS REQUIRED BY THE NUMBER OF CONNECTIONS PLUS AN ADDITIONAL 25% SPARE CAPACITY.

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10 TELECOMMUNICATION SYSTEM GROUND BAR

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Revisions

No	Date	Description

GEORGIA REGISTERED No. PEC 0045 PROFESSIONAL ENGINEER CHRISTOPHER G. SHAFFER 2/13/25

ELECTRICAL DETAILS

Status	FOR CONSTRUCTION
Date	02-13-2025
Project No.	2404.00
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SINGLE LINE SHEET NOTES

A OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.

B REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.

C ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

Branch Panel: A

Location: OFFICE 107
Supply From: EXISTING METER CENTER
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

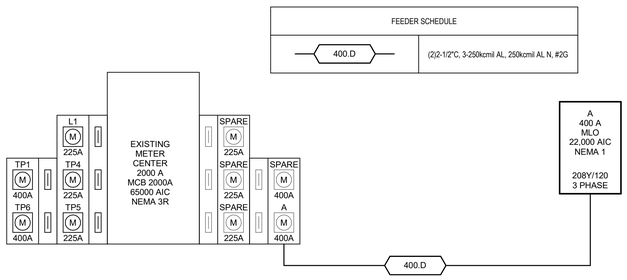
A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 400 A
Ground Bus: Yes

Notes:
GFCI - GROUND-FAULT CIRCUIT INTERRUPTER

CCT	Circuit Description	Bkr Type	Rating	Poles	A		B		C		Poles	Rating	Bkr Type	Circuit Description	CCT
1	LIGHTING - DINING		20 A	1	1369	556					1	20 A		LIGHTING & EF-1	2
3	TRACK LIGHTING		20 A	1			1000	1700			1	20 A		TRACK LIGHTING	4
5	K34 - REFRIGERATED WORKTOP	GF	20 A	1					264	1500	1	20 A		TRACK LIGHTING	6
7	SHUNT TRIP		--	1	--	1500					1	20 A		TRACK LIGHTING	8
9	K36 - PANINI GRILL		20 A	1			1800	1130			1	20 A		K50.1F - HEAT LAMP	10
11	SHUNT TRIP		--	1					--	1130	1	20 A		K50.1 - HEAT LAMP	12
13	K36 - PANINI GRILL		20 A	1	1800	1200					1	20 A		P2 - POS	14
15	SHUNT TRIP		--	1			--	1200			1	20 A		P2 - POS	16
17	K42 - CONVEYOR TOASTER		20 A	1					1788	800	1	20 A		P3 - PRINTER	18
19	K46 - PREP REFRIGERATOR	GF	20 A	1	648	3120					2	40 A		B52 - ESPRESSO MACHINE	20
21	K40 - MICROWAVE OVEN		20 A	1			1608	3120							22
23	K12 - REACH-IN FREEZER	GF	20 A	1					900	360	1	20 A		B52.1 - ESPRESSO MACHINE	24
25	K21 - FOOD SLICER		20 A	1	576	1440					1	20 A		B50 - FROZEN DRINK MACHINE	26
27	K23 - FOOD PROCESSOR		20 A	1			840	264			1	20 A	GF	B32 - BACK BAR CABINET	28
29	K38 - CONVECTION OVEN		40 A	2					2912	420	1	20 A	GF	B14 - GASSWASHER	30
31					2912	367					1	20 A	GF	B12 - BOTTLE COOLERS	32
33	SHUNT TRIP		--	1			--	264			1	20 A	GF	B30 - BACK BAR CABINET	34
35	K29 - INDUCTION RANGE		20 A	2					1300	1200	1	20 A		P1 - POS	36
37					1300	540					1	20 A		RCPT - WAIT STATION	38
39	SHUNT TRIP		--	1			--	720			1	20 A		RCPT - OFFICE	40
41	K44 - PREP REFRIGERATOR		20 A	1					240	1260	1	20 A		RCPT - RESTROOM/CORRIDOR	42
43	K60 - COFFEE TEA BREWER		40 A	2	2600	1300					2	20 A		K66 - ICE MAKER	44
45							2600	1300							46
47	K1 - WALK-IN COOLER CTRLS		20 A	1					1200	3120	2	40 A		D3 - DISHWASHER	48
49	K1.3 - W.I.C EVAPORATOR		20 A	1	240	3120									50
51	K1.1 - W.I.C CONDENSER		20 A	2			593	360			1	20 A		RCPT - KITCHEN	52
53									593	1200	1	20 A		KITCHEN HOOD	54
55	RCPT - ROOFTOP MAINT.		20 A	1	360	240					1	20 A		B40.2 - BEVERAGE W.I.C EVAP.	56
57	RCPT - FOH ENTRY		20 A	1			1080	1200			1	20 A		B40 - BEVERAGE W.I.C CTRLS	58
59	RCPT - BAR		20 A	1					1080	593	2	20 A		B40.1 - BEV. W.I.C CONDENSER	60
61	B24 - WORK CENTER		20 A	1	1800	593									62
63	EXTERIOR SCONCE		20 A	1			67	855			1	20 A		STRING LIGHTING	64
65	SPARE		20 A	1					0	900	1	20 A		RCPT - PATIO	66
67	SPARE		20 A	1	0	900					1	20 A		RCPT - PATIO	68
69	SPACE		--	1			--	0			1	20 A		SPARE	70
71	SPACE		--	1					--	0	1	20 A		SPARE	72
73	SPACE		--	1	--	0					1	20 A		SPARE	74
75	SPACE		--	1			--	--			1	--		SPACE	76
77	SPACE		--	1					--	--	1	--		SPACE	78
79	SPACE		--	1	--	--					1	--		SPACE	80
81	WH-1		20 A	1			960	864			1	15 A		HWC-1	82
83	EH-1		20 A	1					1500	372					84
85	KEF-1		15 A	3	312	372					3	15 A		KSF-1	86
87							312	372							88
89									312	--	1	--		SHUNT TRIP	90
91					3242	3168									92
93	RTU-5T		45 A	3			3242	3168			3	45 A		RTU-6T	94
95									3242	3168					96
					Total Load:	35576 VA		30619 VA		31354 VA					
					Total Amps:	297 A		255 A		262 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	20731 VA	100.00%	20731 VA		
MTR	3074 VA	109.08%	3353 VA	**Total Conn. Load:**	97550 VA
KTCH	52794 VA	77.76%	41050 VA	**Total Est. Demand:**	87623 VA
RCPT	11600 VA	93.10%	10800 VA	**Total Conn.:**	271 A
WATER HEATER	960 VA	125.00%	1200 VA	**Total Est. Demand:**	243 A
LIGHTS	8391 VA	125.00%	10488 VA		

Notes:
TWO-SECTION PANEL



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GEORGIA REGISTERED No. PE034545 PROFESSIONAL ENGINEER 2/13/25 CHRISTOPHER G. SHAFFER

ELECTRICAL SCHEDULES

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1 ONE LINE DIAGRAM

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