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E3.2	ROOF POWER PLAN	o			
E4.1	ELECTRICAL DETAILS	o			
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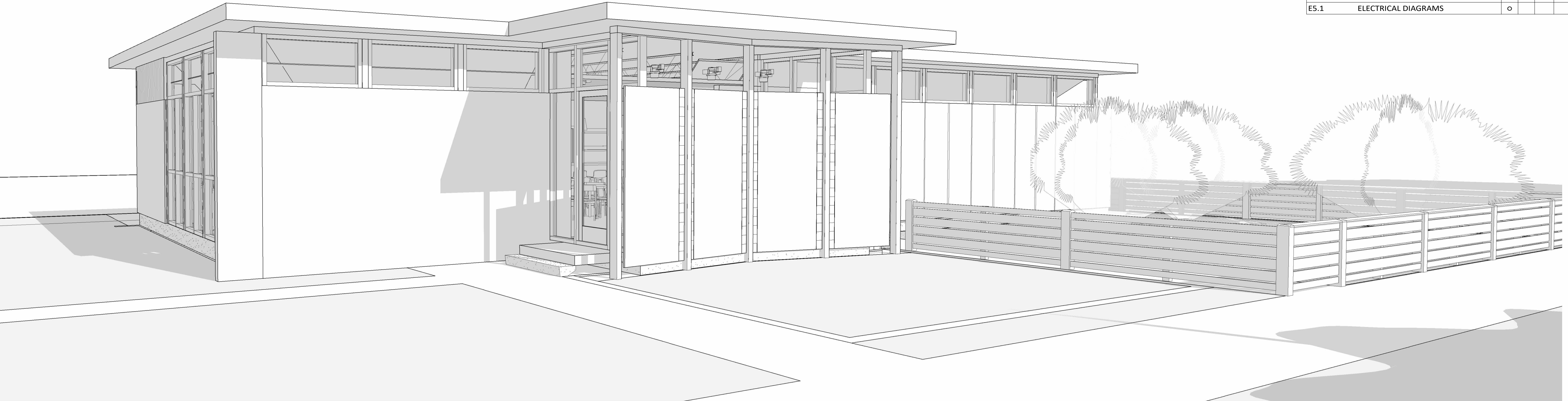
PROJECT TEAM

ARCHITECT
 ROSE ARCHITECTS
 311 MAUPAS AVE
 SAVANNAH, GA 31401
 KEVIN ROSE
 PHONE: 912-484-5967
 EMAIL: KEVIN@ROSEARCH.CO

GENERAL CONTRACTOR
 TBD

MECHANICAL, ELECTRICAL, PLUMBING
 METHOD ENGINEERING GROUP
 2 EAST BRYAN STREET, SUITE 1500C
 SAVANNAH, GA, 31405
 PHONE: 912 963 1611
 EMAIL: INFO@METHODREG.COM

STRUCTURAL
 SAPP STRUCTURAL
 226 KENSINGTON DRIVE
 SAVANNAH, GA 31405
 PHONE: 912 704 2170
 EMAIL: BSAPP@SAPPSTRUCTURAL.COM



CIRQUE DAIQUIRI BAR AND GRILL

DRAWINGS PREPARED FOR:

KECHIA MATADIN
 PHONE: 404.909.9134
 EMAIL: MATAD9@AOL.COM

PROJECT DESCRIPTION:

RENOVATION AND ADDITION OF AN EXISTING BUILDING AT 2302 BULL STREET. THE RENOVATION INCLUDES REMOVAL OF EXISTING INTERIOR WALLS WITH THE ADDITION OF A NEW BAR AND KITCHEN. THE EXTERIOR WILL INCLUDE A FENCED-IN REFUSE AREA AND RESTRIPIING OF THE EXISTING PARKING LOT.

CIRQUE DAIQUIRI BAR & GRILL

2302 BULL STREET SAVANNAH, GA 31401

COVER SHEET
 2323
 JK
 KR

CVR

BUILDING CODE SUMMARY

1 PROJECT INFORMATION
 Name of Project: **CIRQUE DAIQUIRI RESTAURANT AND BAR**
 Address: **2302 Bull Street Street, Savannah, GA 31401**
 Property PIN #: **20065 39001**
 Proposed Use: **Restaurant and Daiquiri Bar**
 Owner/Authorized Agent: **Kevin Rose**
 Phone: **912.308.4622** Email: **Kevin@RoseArch.co**

Owned by: City/County Private State
 Code Jurisdiction: City Savannah County State

2 PROJECT SUMMARY
 Building Description: **The space will serve as a restaurant and bar. Improvements and additions of an existing building at 2302 Bull Street in Savannah Georgia. Site work to include a new fenced in refuse area and restriping of an existing parking lot. Parking is not required for the proposed use.**

3 DESIGN CONSULTANTS

CONSULTANT	FIRM	CONTACT / LICENSE #	EMAIL / PHONE
Architectural	Rose Architects	Kevin Rose GA# 012436	kevin@research.co 912 308 4622
Civil	n/a	n/a	n/a
Electrical	Method Engineering	Chris Schaffer GA - PEQ 41545	cschaffer@MethodEG.com 912 963 1611
Fire Alarm	Method Engineering	Chris Schaffer GA - PEQ 41545	cschaffer@MethodEG.com 912 963 1611
Plumbing	Method Engineering	Andrew McKeever GA# 40556	amckeever@MethodEG.com 912 963 1611
Mechanical	Method Engineering	Andrew McKeever GA# 40556	amckeever@MethodEG.com 912 963 1611
Structural	Sapp Structural	Brian Sapp GA - SE000802	bsapp@sappstructural.com 912 963 1611
Landscaping	n/a	n/a	n/a
LEAD DESIGN	n/a	n/a	n/a

4 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)
 Lift: (First Time Interior Completion)(The first time interior completion of a never occupied shell space in a new building.)
 Alteration/Renovation: (Previously Occupied Space)

5 APPLICABLE CODES

Building Code:
 2018 International Building Code (IBC) 2020 National Electrical Code
 2018 Life Safety Code (LSC) - NFPA 101 2003 International Energy Conservation Code
 2018 International Mechanical Code 2012 International Fire Code
 2018 International Plumbing Code 2010 ADA Standards for Accessible Design

New Building:
 New Building Shell Building

6 BASIC BUILDING

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 138-07 NFPA 13D-07

Standpipes:
 No Yes Class: I II III Wet Dry

Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL (SQ. FT.)
LEVEL 01	2440 SF	188 SF	2628 SF

7 ALLOWABLE AREA/OCCUPANCY CLASSIFICATION * GROSS SF - 2628 SF

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

8 EXIT REQUIREMENTS
 NUMBER AND ARRANGEMENT OF EXITS (NFPA 101 7.4 & 7.5)

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE	ARRANGEMENT MEANS OF EGRESS	
	REQUIRED	SHOWN ON PLANS		REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE BETWEEN EXIT DOORS
ASSEMBLY (A-2)	2	4	200'	64'-9"	N/A

OCCUPANT LOAD AND EXIT WIDTH (NFPA 101 TABLE 7.3.1.2)

USE GROUP OR SPACE DESCRIPTION	AREA		CALCULATE OCCUPANT LOAD (A/B)	EGRESS WIDTH PER OCCUPANT		REQUIRED WIDTH (SECTION 1005.1) (W/B) x C		ACTUAL WIDTH SHOWN ON PLANS		Stair Level
	(a)	(b)		Stair	Level	Stair	Level	Stair	Level	
KITCHEN	548 SF	100 GROSS	6 PEOPLE	N/A	0.2"	N/A	1.2"	N/A	144"	
STORAGE	274 SF	300 GROSS	1 PERSON	N/A	0.2"	N/A	2"	N/A	144"	
BUSINESS	80 SF	150 GROSS	1 PERSON	N/A	0.2"	N/A	2"	N/A	144"	
SEATING (less concentrated)	455 SF	15 SF NET	31 PEOPLE	N/A	0.2"	N/A	6.2"	N/A	144"	
SEATING (concentrated)	137 SF	7 NET	20 PEOPLE	N/A	0.2"	N/A	4.0"	N/A	144"	
TOTAL REQ'D WIDTH						N/A	11.8"	7.4	N/A	144"
EXTERIOR DINING	646 SF	15 SF NET	59 PEOPLE							43 PEOPLE
										96 PEOPLE

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)

9 PLUMBING FIXTURE REQUIREMENTS NO CHANGE

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

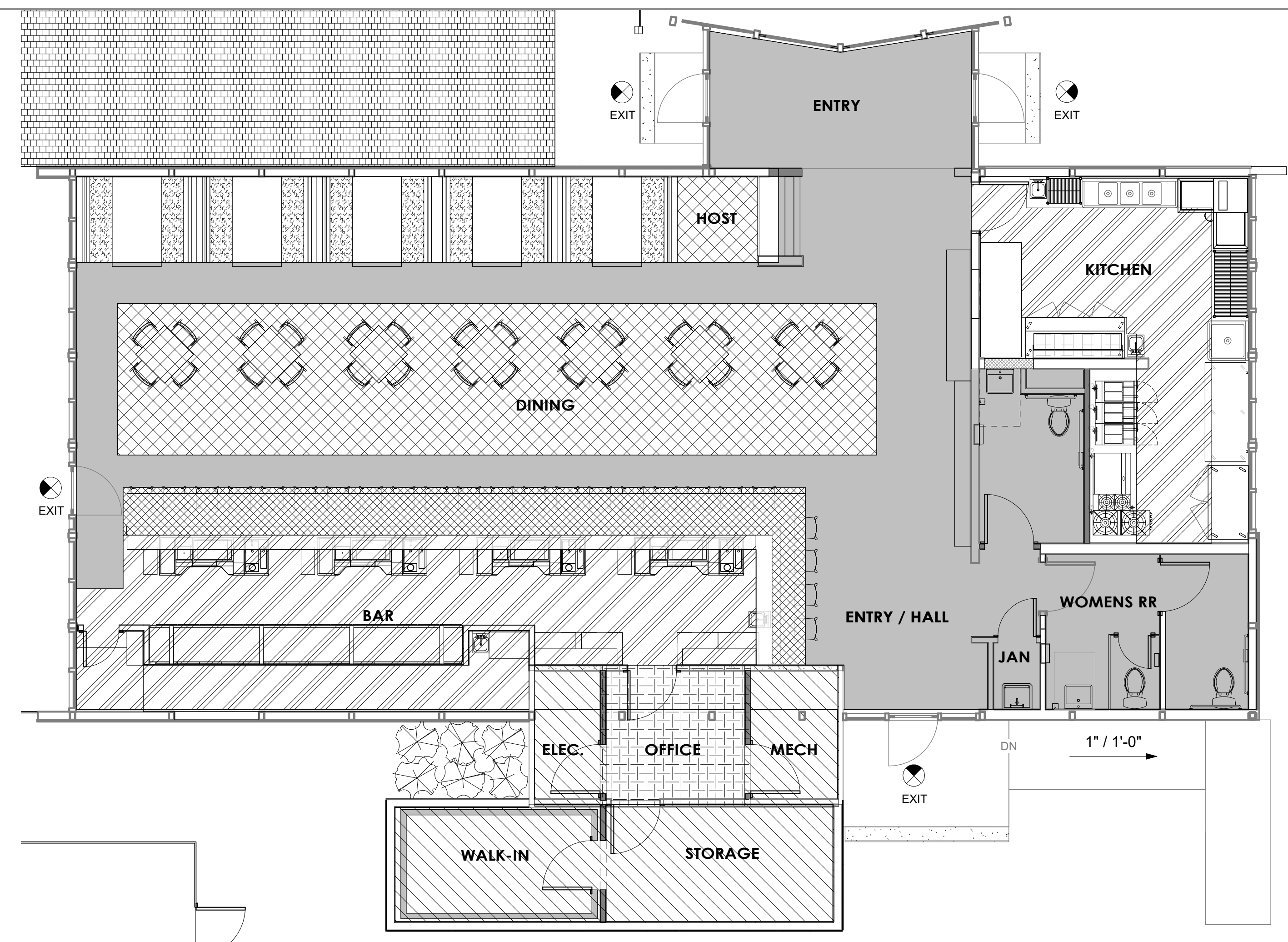
OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS / TUBS	DRINKING FOUNTAINS
	MALE	FEMALE		MALE	FEMALE		
ASSEMBLY A-2	1 PER 75	1 PER 75	0	1 PER 200		N/A	N/A

*1 SERVICE SINK SHALL BE PROVIDED

10 PARKING REQUIREMENTS

Lot or Parking Area	Total # of Parking Spaces		# of Accessible Spaces Provided		Total # Accessible Provided
	Required	Provided	Regular w/ 5' Access Aisle	Van Spaces With 132" Access Aisle 8' Access Aisle	
	1 PER 1000	3	1	N/A	1

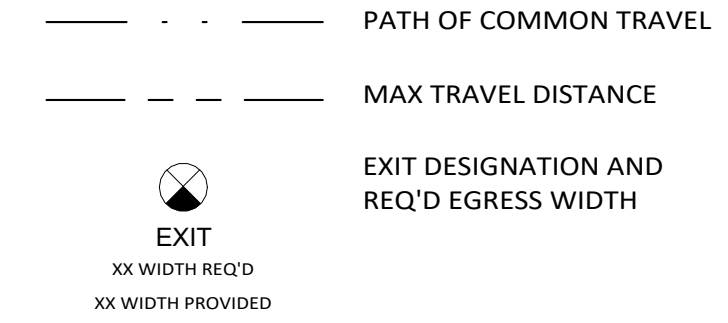
SEC. 8-3224. PARKING
 NONRESIDENTIAL USE 2,500 SQUARE FEET OR MORE. MINIMUM ONE SPACE PER 1,000 SQUARE FEET OF GROSS FLOOR AREA. MAXIMUM ONE SPACE PER 500 SQUARE FEET OF GROSS FLOOR AREA IF LOCATED ON-SITE.
 IV. APARTMENT USED BY COLLEGE OR DORMITORY USE. MINIMUM ONE SPACE



LIFE SAFETY NOTES

- SEE ELECTRICAL PLANS FOR EMERGENCY LIGHTING LOCATIONS.
- PROVIDE DOOR CLOSER AND EGRESS PANIC HARDWARE FOR ALL EGRESS DOORS AS SPECIFIED.
- CONTRACTOR SHALL COORDINATE ALL EXIT LIGHTS AND EMERGENCY LIGHTING WITH E100 SHEETS

LIFE SAFETY KEY



LIFE SAFETY LEGEND

STORAGE - 274.21 SF / 300 OLF	= .91	- 1 PERSON
KITCHEN / WORK AREA - 547.35 SF / 100 OLF	= 5.47	- 6 PEOPLE
LESS CONCENTRATED SEATING - 454.56 SF / 15 NET OLF	= 30.26	- 31 PEOPLE
CONCENTRATED - 136.78 SF / 7 NET OLF	= 19.54	- 20 PEOPLE
BUSINESS - 79.28 SF / 150 OLF	= 0.53	- 1 PERSON
CIRCULATION / BATHROOMS - 897.24 SF - NA		N/A
		59 PEOPLE
BANQUETTES = 750" OF SEATING / 18" PER PERSON = 41.66		42 PEOPLE
OCCUPANT LOAD (59+42=101)		101 PEOPLE

VICINITY MAP



PORTABLE FIRE EXTINGUISHER REQUIREMENTS

- ALL PORTABLE FIRE EXTINGUISHERS SHALL COMPLY WITH THE LOCAL FIRE DEPARTMENT AND THE NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
- FIRE EXTINGUISHER SIZE AND PLACEMENT SHALL COMPLY WITH TABLE 5.2.1. OF NFPA 10 UNDER ORDINARY HAZARD.
- 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.
- FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE
- ALL FIRE EXTINGUISHERS SHALL BE TESTED AND OPERATIONAL PRIOR TO PROJECT COMPLETION.

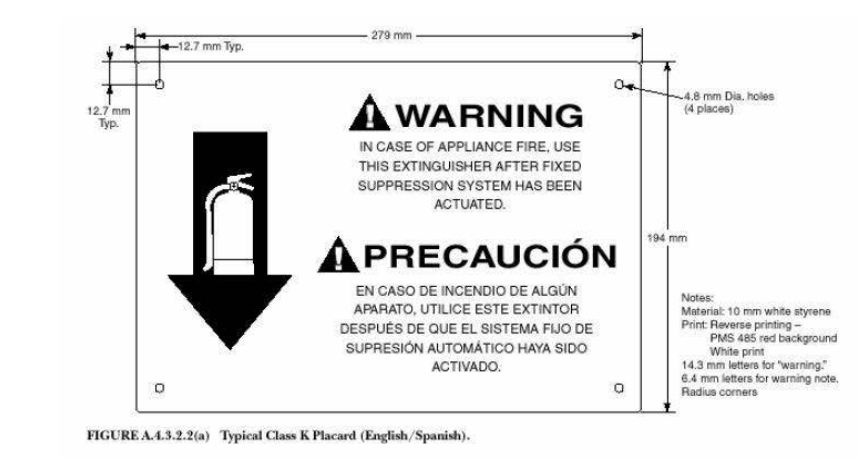


FIGURE A.4.3.2(a) Typical Class A (Single-Spindle)



CIRQUE DAIQUIRI BAR & GRILL
 2302 BULL STREET SAVANNAH, GA 31401

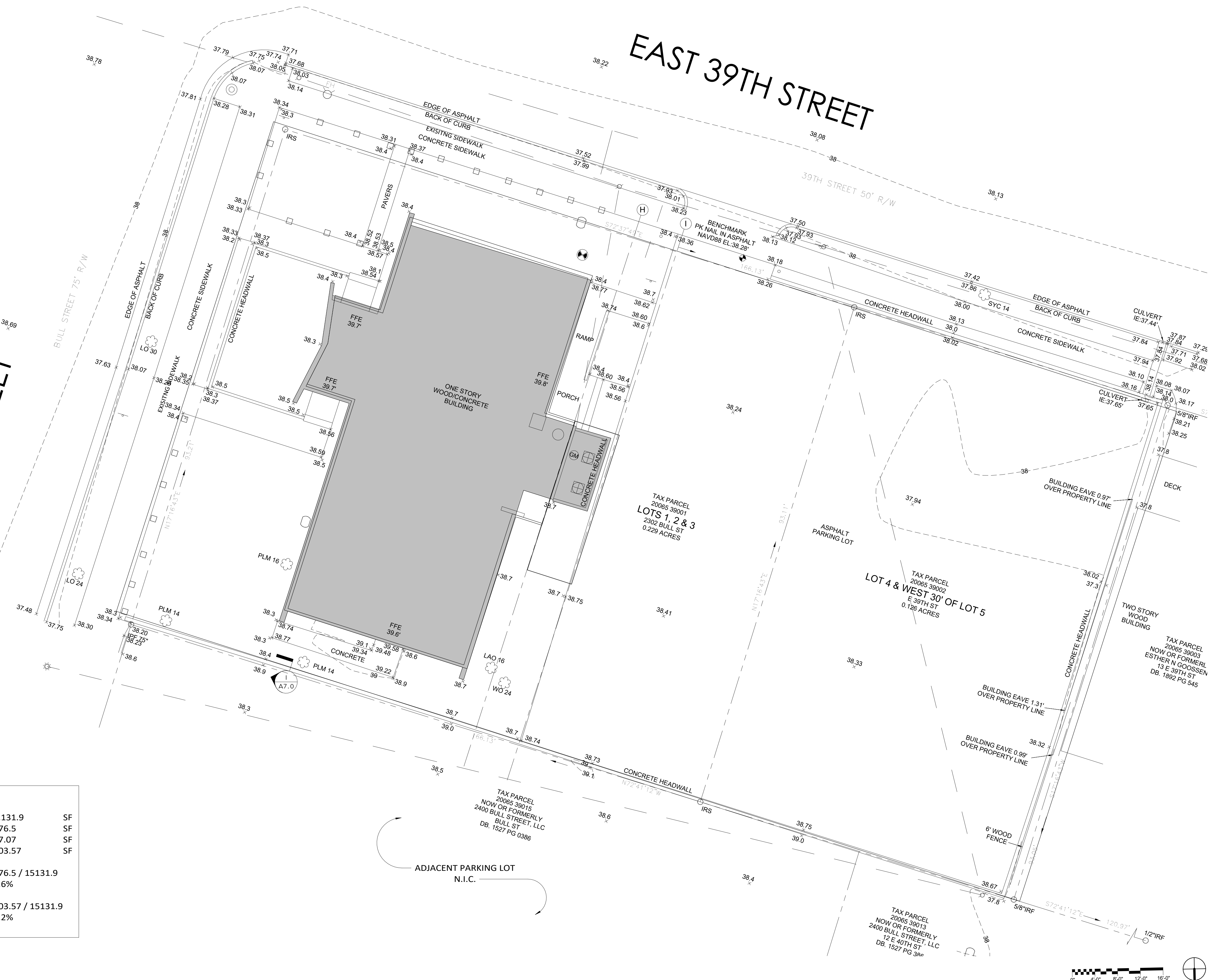
CODE DATA
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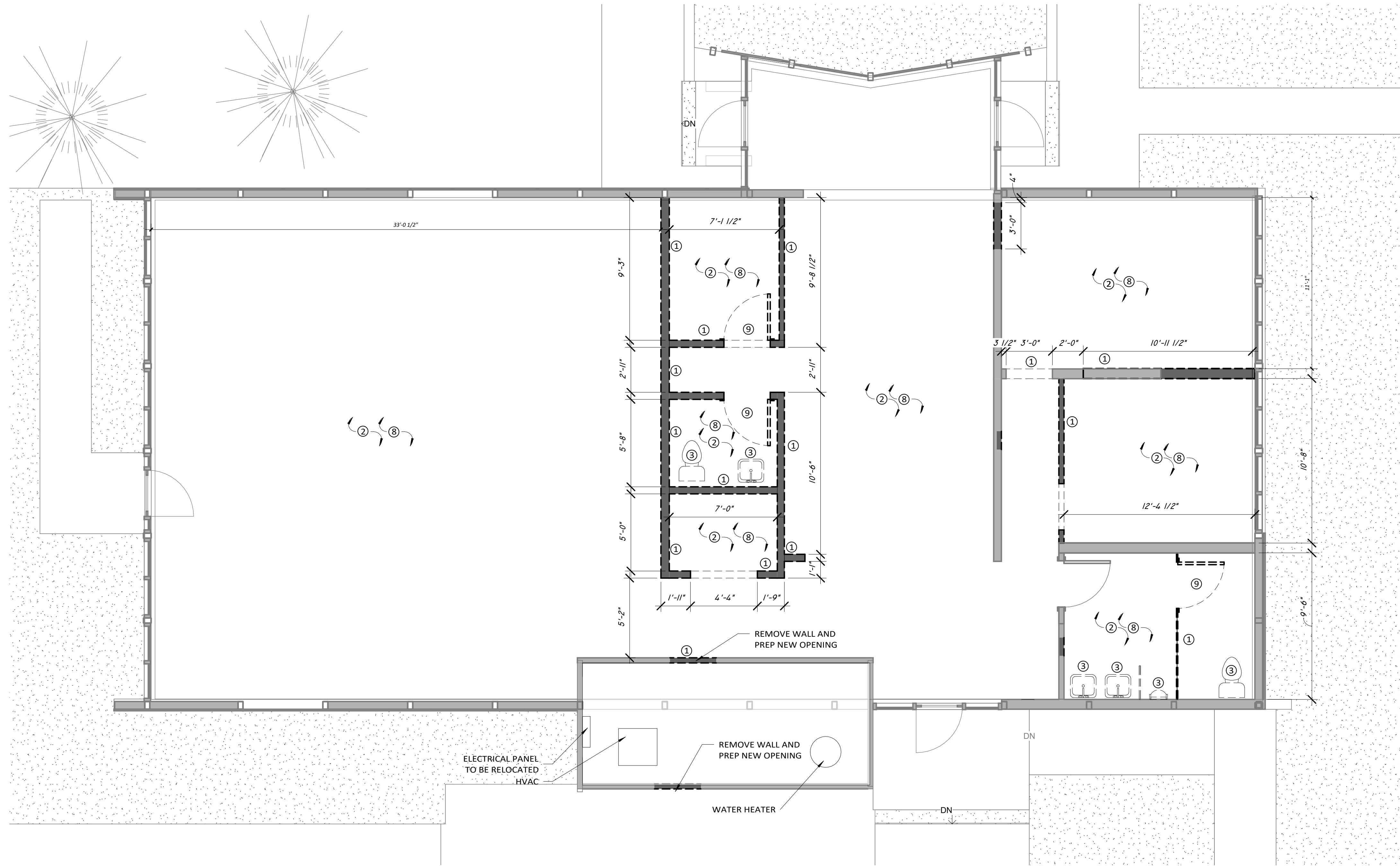
FOR CONSTRUCTION

BULL STREET

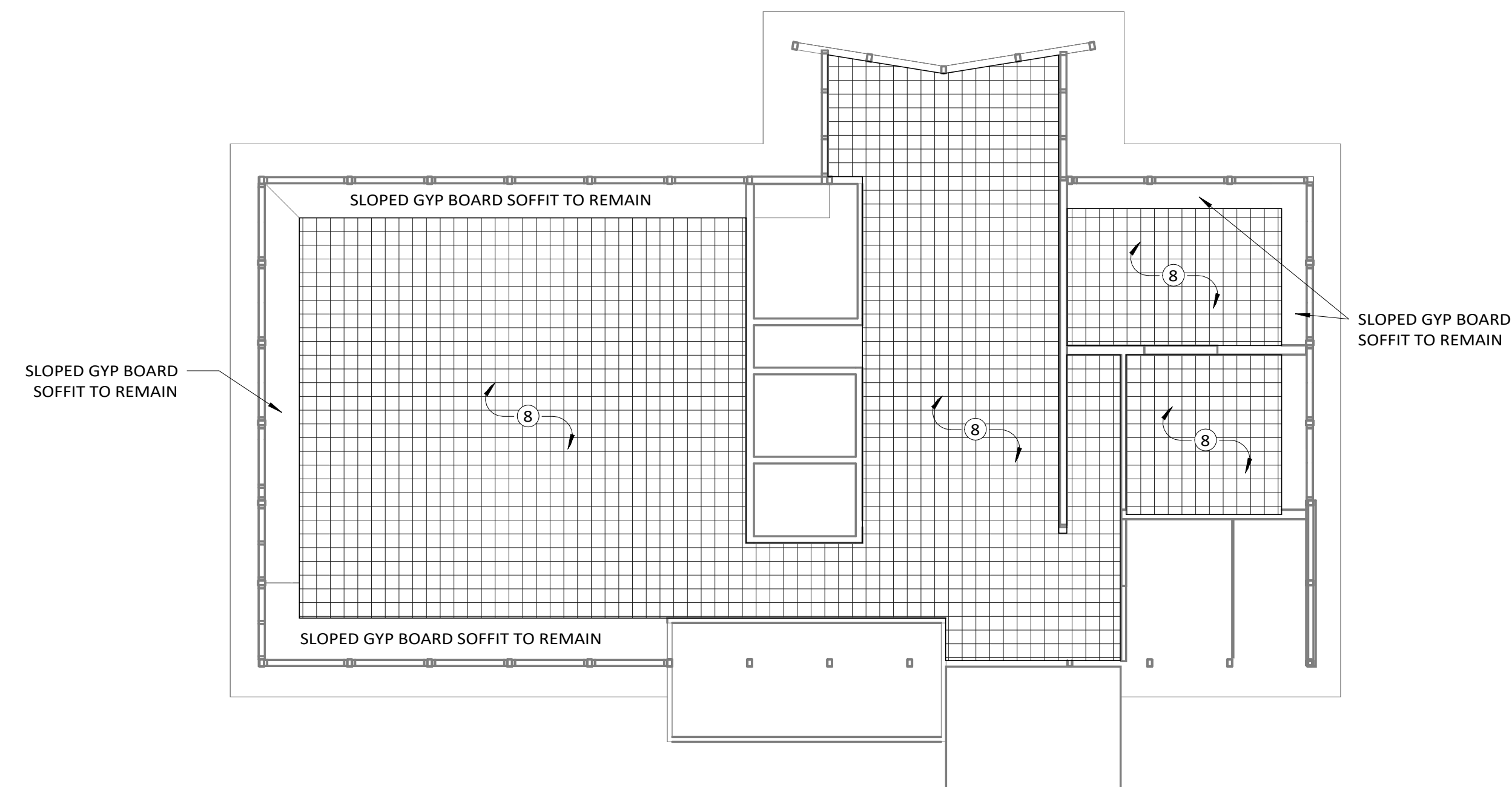
EAST 39TH STREET



PROPOSED LOT COVERAGE		
LOT SIZE:	15,131.9	SF
EXISTING BUILDING :	2676.5	SF
ADDITION:	227.07	SF
TOTAL BUILDING:	2903.57	SF
EXISTING LOT COVERAGE: 2676.5 / 15131.9 17.6%		
PROPOSED LOT COVERAGE 2903.57 / 15131.9 19.2%		



1 FLOOR PLAN - DEMO
D1.0 1/4" = 1'-0"



2 RCP - DEMO
D1.0 1/8" = 1'-0"

GENERAL DEMO NOTES

- 1 ALL EXISTING CONDITIONS SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 2 REMOVED MATERIALS, UNLESS NOTED OTHERWISE, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS. VERIFY WITH OWNER
- 3 THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR REMOVAL AND DEMOLITION OPERATIONS. REMOVAL AND DEMOLITION OPERATIONS SHALL BE PERFORMED IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AND FLYING PARTICLES.
- 4 THE EXACT EXTENT OF DEMOLITION TO BE DONE SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH THE EXIST CONDITIONS.
- 5 THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE SAFETY OF THE EXIST STRUCTURE.
- 6 NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO FALL NOR SHALL ANY DEBRIS BE DROPPED EXCEPT BY METHODS WHICH WILL INSURE LIFE SAFETY AND OTHER INSURANCE.
- 7 DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN NECESSARY. DO NOT DAMAGE, MAR, OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE REUSED.
- 8 THE CONTRACTOR SHALL PROVIDE SHORING IN ALL LOCATIONS WHERE EXIST CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION.
- 9 ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.
- 10 IN AREAS OF WORK, AT EXISTING WALLS TO REMAIN WHERE OUTLETS, ETC. ARE REMOVED, PATCH AND REPAIR WALL TO MATCH EXISTING WALL TEXTURE. PREPARE WALL TO RECEIVE NEW FINISHES.
- 11 ALL LOOSE ITEMS (ARTWORK, FRAMED PICTURES, ETC.) ON WALL WILL BE REMOVED BY OWNER. FIXED ITEMS ON WALLS WILL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE ALL EXISTING WALL SIGNAGE ADJACENT TO DOORS AND TURN OVER TO OWNER.
- 12 ALL EXISTING WALLS SHALL BE REPAINTED AS SCHEDULED. CONTRACTOR RESPONSIBLE FOR PREPARING WALLS AND MINOR PATCHING (IN ADDITION TO SPECIFIC PATCHING AS NOTED). ALL EXISTING DOOR FRAMES SHALL BE REPAINTED. PREPARE EXISTING FRAMES PRIOR TO PAINTING.

DEMO LEGEND

- PORTION OF WALL TO REMAIN
- PORTION OF WALL TO BE REMOVED
- PORTION OF FLOOR TO BE REMOVED
- PORTION OF CEILING TO BE REMOVED

PROJECT DEMO NOTES

- 1 NO CHANGE TO EXTERIOR FRONT FACADE

DEMO KEY NOTES

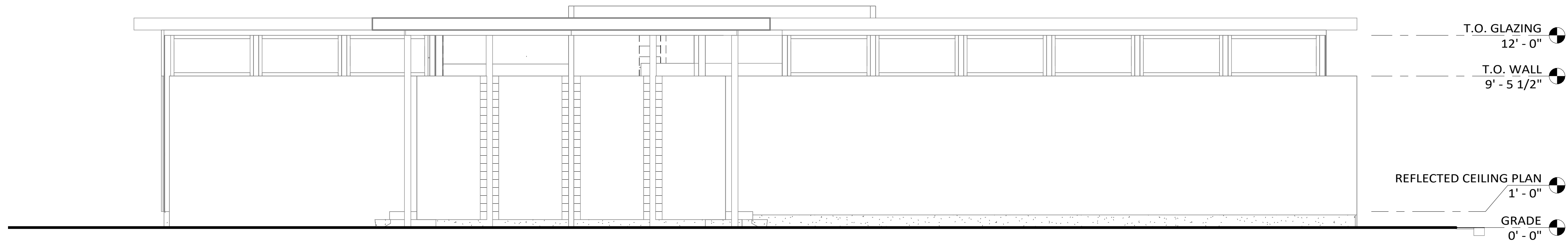
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- 3 REMOVE EXISTING PLUMBING FIXTURES AND PIPING
- 4 REMOVE EXISTING HVAC EQUIPMENT, DUCTWORK AND PIPING
- 5 REMOVE EXISTING MASONRY WALL TO ELEVATIONS SHOWN
- 6 REMOVE EXISTING ROOF SYSTEM STRUCTURE AND ROOFING FINISHES
- 7 REMOVE EXISTING FLOOR SYSTEM
- 8 REMOVE EXISTING CEILING FINISHES
- 9 REMOVE EXISTING DOOR AND FRAME
- 10 REMOVE EXISTING WINDOW IN ITS ENTIRETY
- 11 REMOVE EXISTING SLAB AND FOUNDATION



GENERAL DEMO NOTES

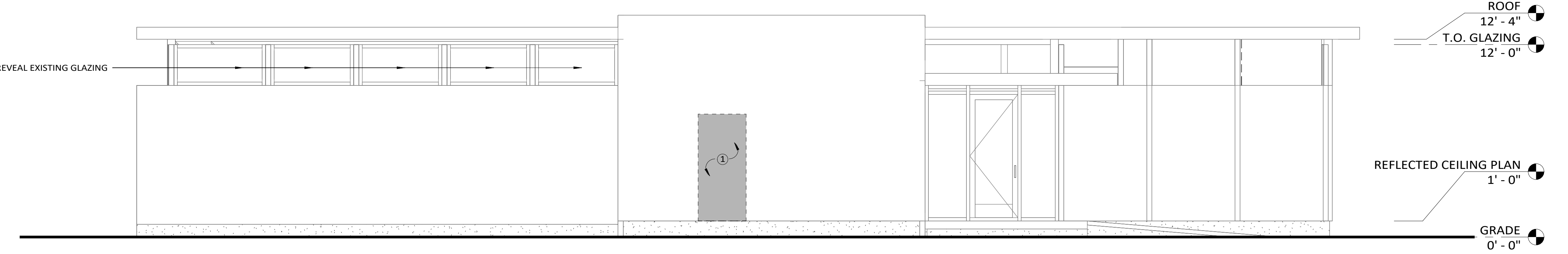
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1 DEMO ELEVATION - WEST
D2.0 1/4" = 1'-0"

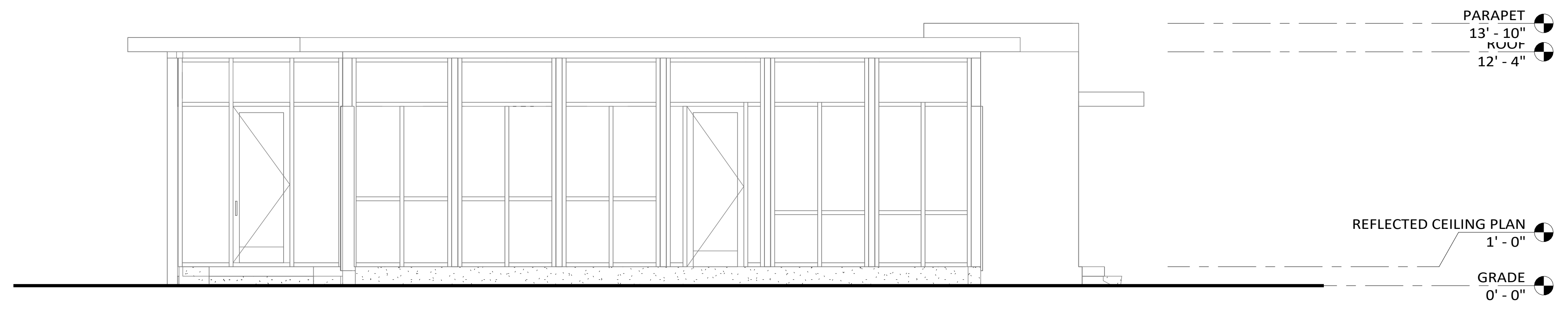


REMOVE METAL TO REVEAL EXISTING GLAZING

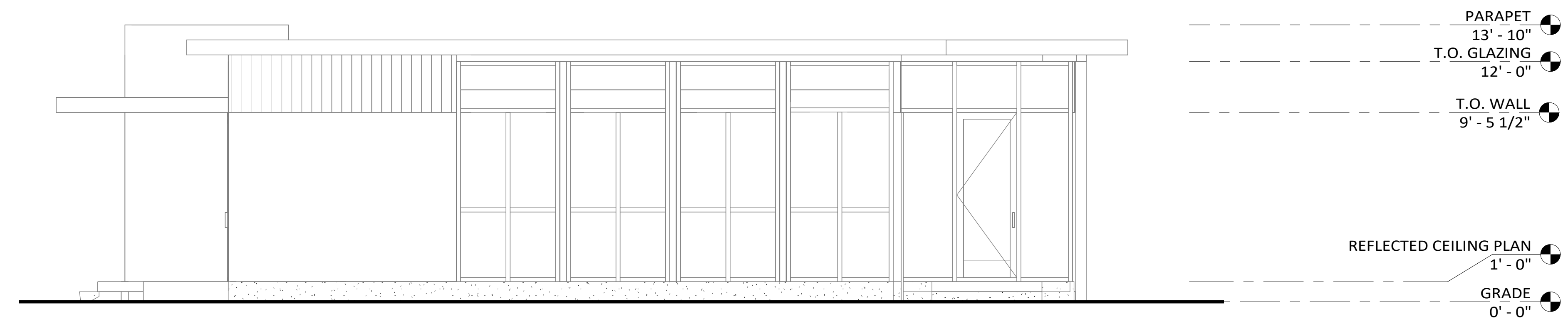
2 DEMO ELEVATION - EAST
D2.0 1/4" = 1'-0"



3 DEMO ELEVATION - SOUTH
D2.0 1/4" = 1'-0"



4 DEMO ELEVATION - NORTH
D2.0 1/4" = 1'-0"



DEMO LEGEND

- PORTION OF WALL TO REMAIN
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- PORTION OF FLOOR TO BE REMOVED
- PORTION OF CEILING TO BE REMOVED

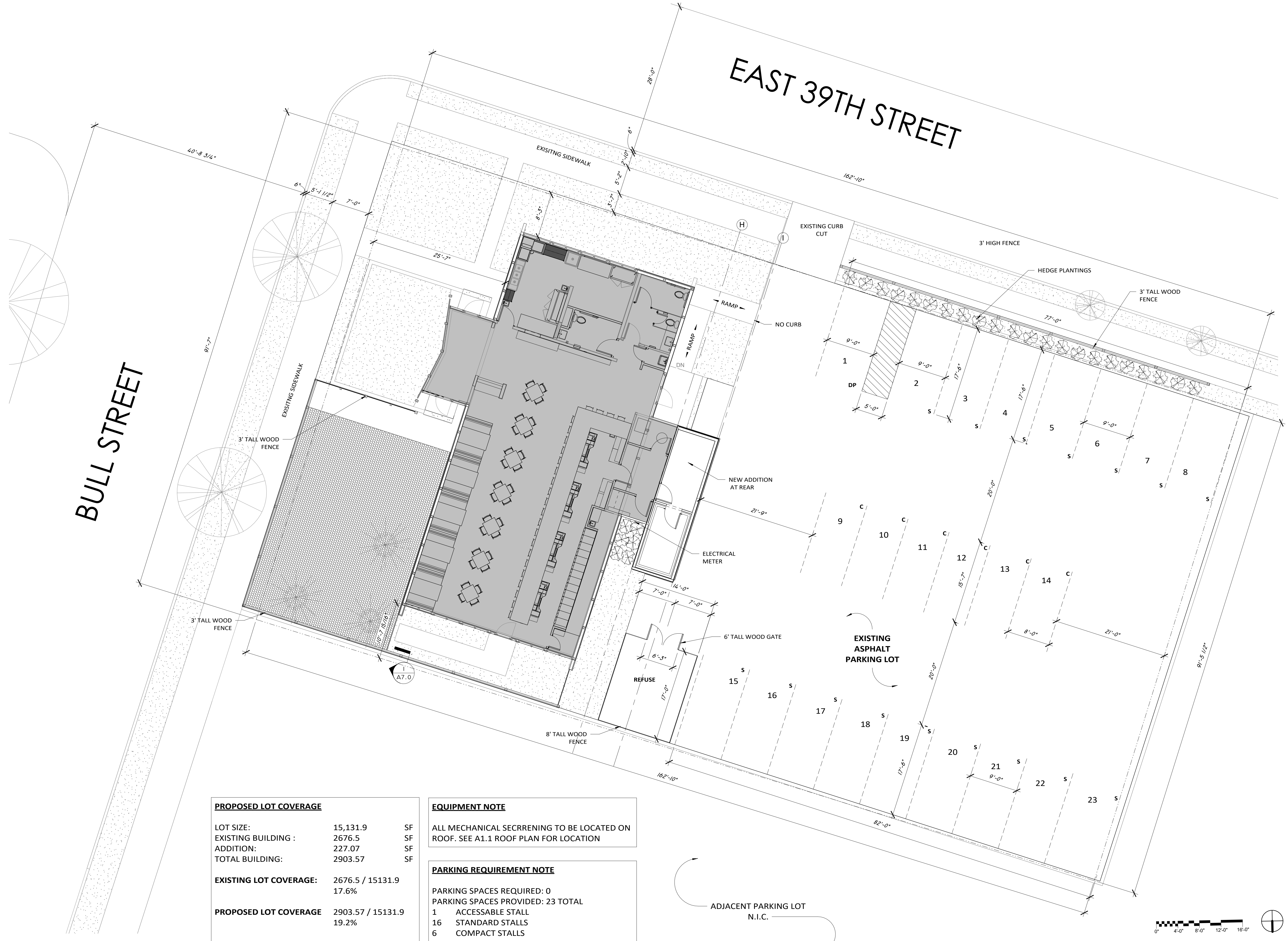
PROJECT DEMO NOTES

- 1 NO CHANGE TO EXTERIOR FRONT FACADE

DEMO KEY NOTES

- 1 REMOVE EXISTING PARTITION AND FINISHES
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FOR CONSTRUCTION



PROPOSED LOT COVERAGE		
LOT SIZE:	15,131.9	SF
EXISTING BUILDING :	2676.5	SF
ADDITION:	227.07	SF
TOTAL BUILDING:	2903.57	SF
EXISTING LOT COVERAGE: 2676.5 / 15131.9 17.6%		
PROPOSED LOT COVERAGE 2903.57 / 15131.9 19.2%		

EQUIPMENT NOTE
ALL MECHANICAL SECRRENING TO BE LOCATED ON ROOF. SEE A1.1 ROOF PLAN FOR LOCATION

PARKING REQUIREMENT NOTE
PARKING SPACES REQUIRED: 0
PARKING SPACES PROVIDED: 23 TOTAL
1 ACCESSABLE STALL
16 STANDARD STALLS
6 COMPACT STALLS

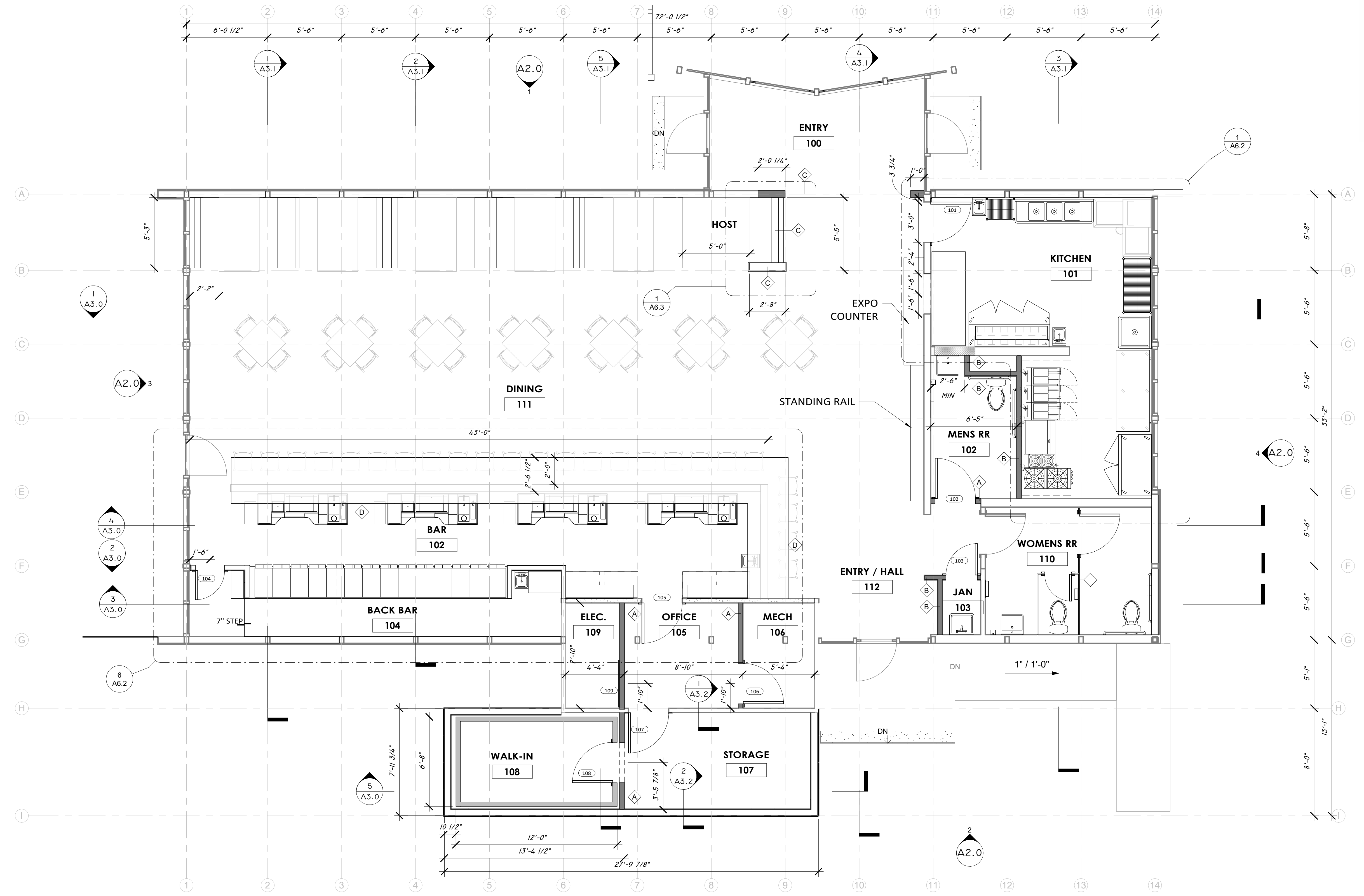
1 SITE PLAN
A0.0 1/8" = 1'-0"



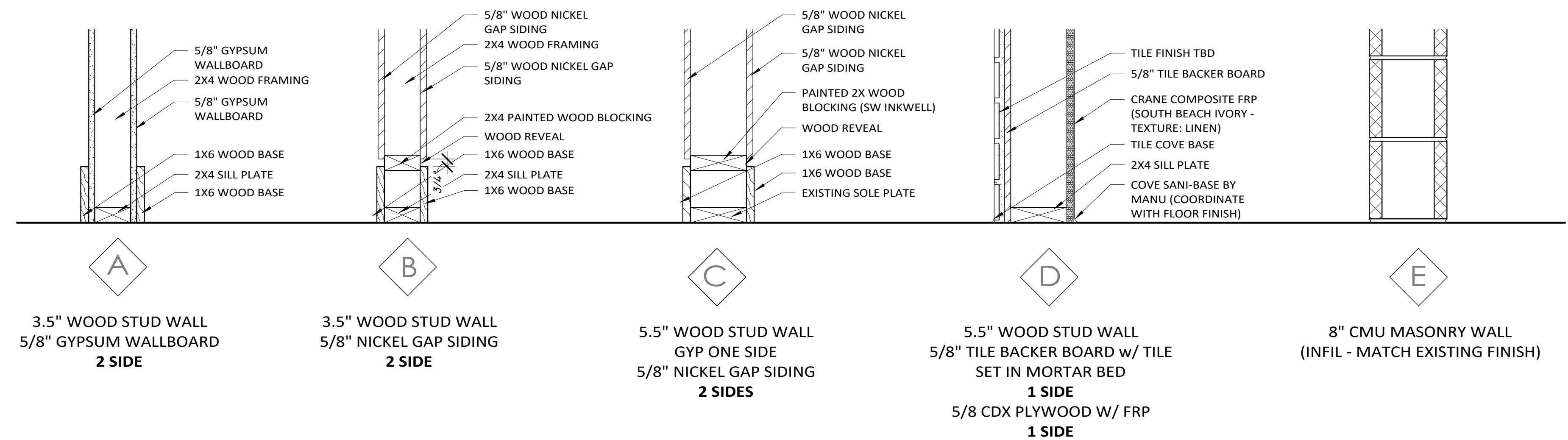
ADJACENT PARKING LOT
N.I.C.

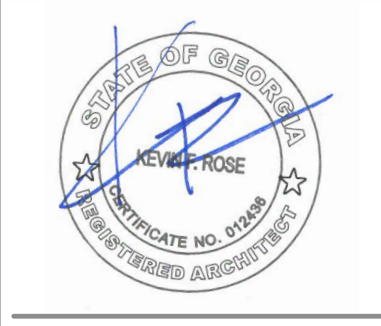


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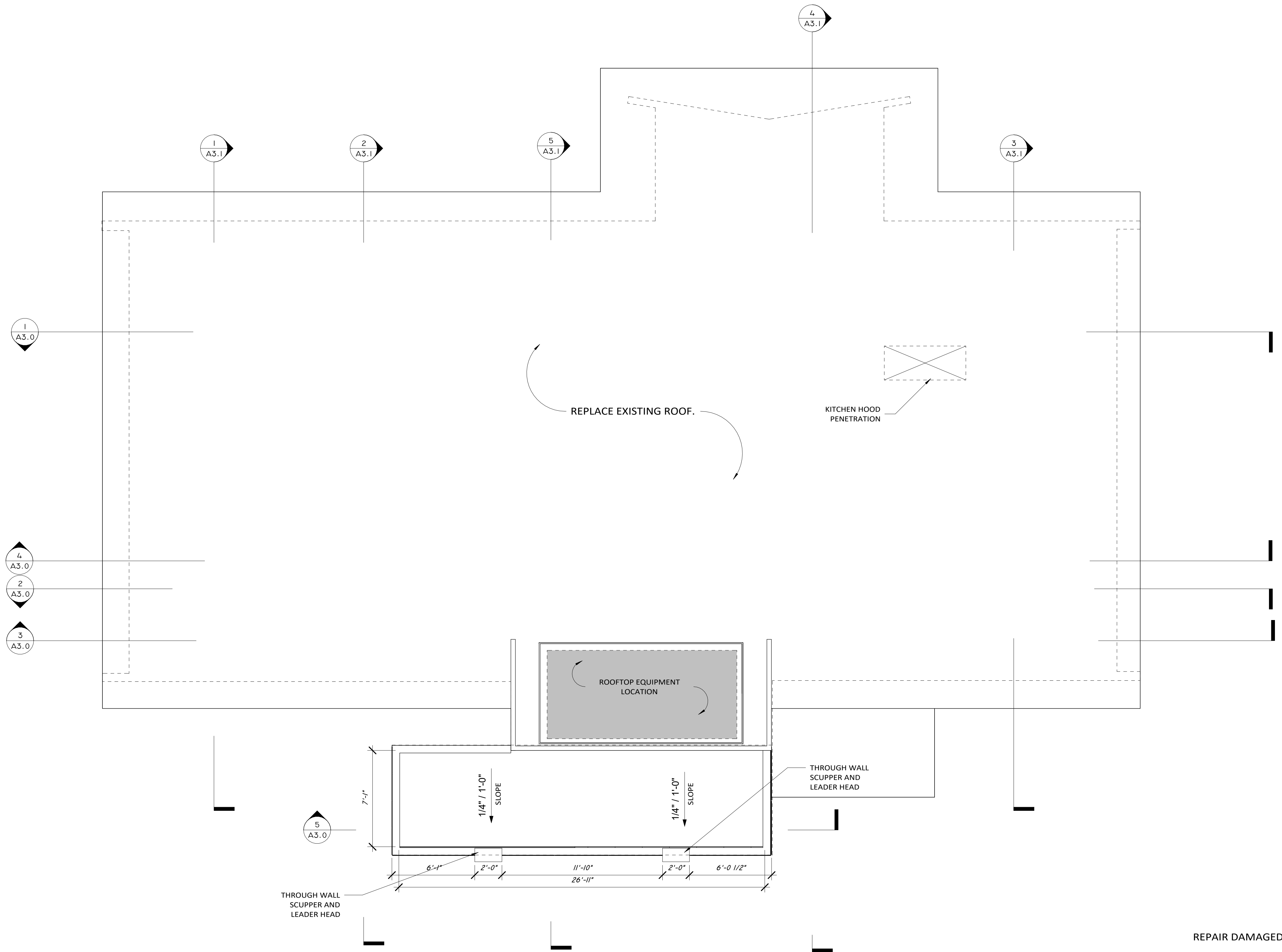


1 FLOOR PLAN
A1.0 1/4" = 1'-0"





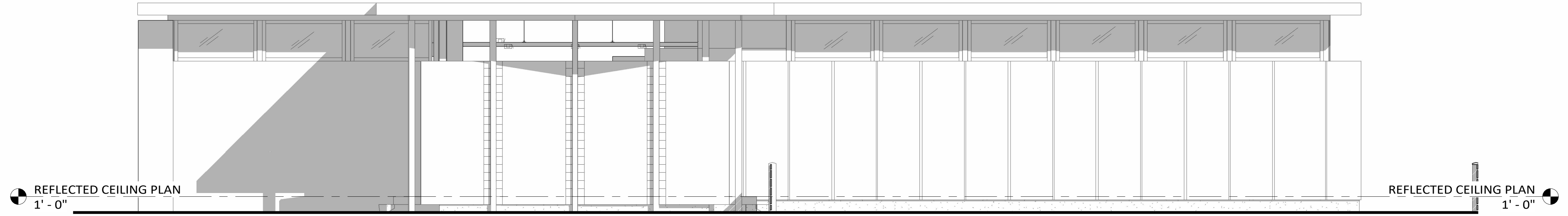
FOR CONSTRUCTION



NOTE TO CONTRACTOR:
ENSURE POSITIVE DRAINAGE AT ROOF.
REPAIR DAMAGED FACIA AND SOFFITS AS NEEDED. ASSUME 30%
REPAIR/ REPLACEMENT FOR COST ESTIMATE

1 ROOF
A1.1 1/4" = 1'-0"

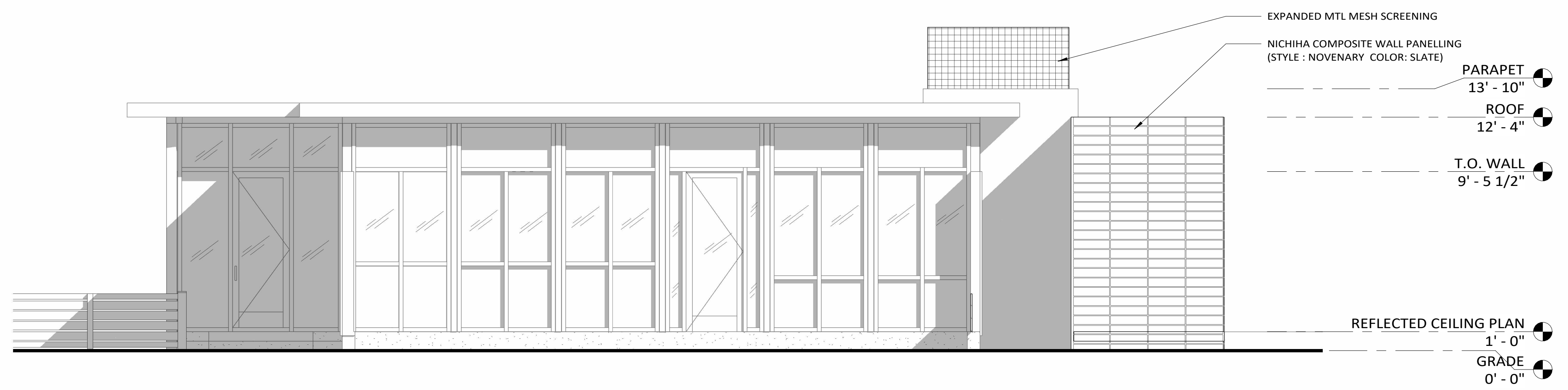
FOR CONSTRUCTION



1 EXTERIOR ELEVATION - WEST
A2.0 1/4" = 1'-0"



2 EXTERIOR ELEVATION - EAST
A2.0 1/4" = 1'-0"

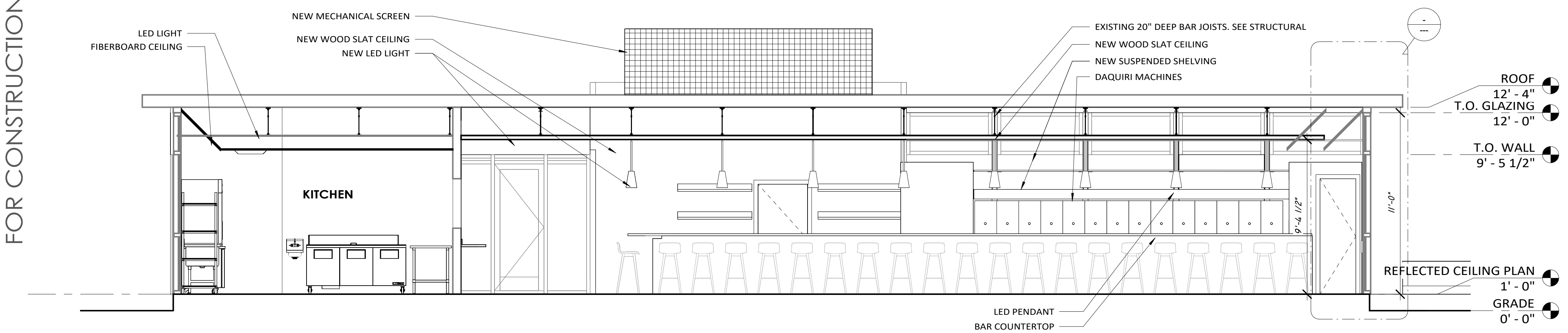


3 EXTERIOR ELEVATION - SOUTH
A2.0 1/4" = 1'-0"

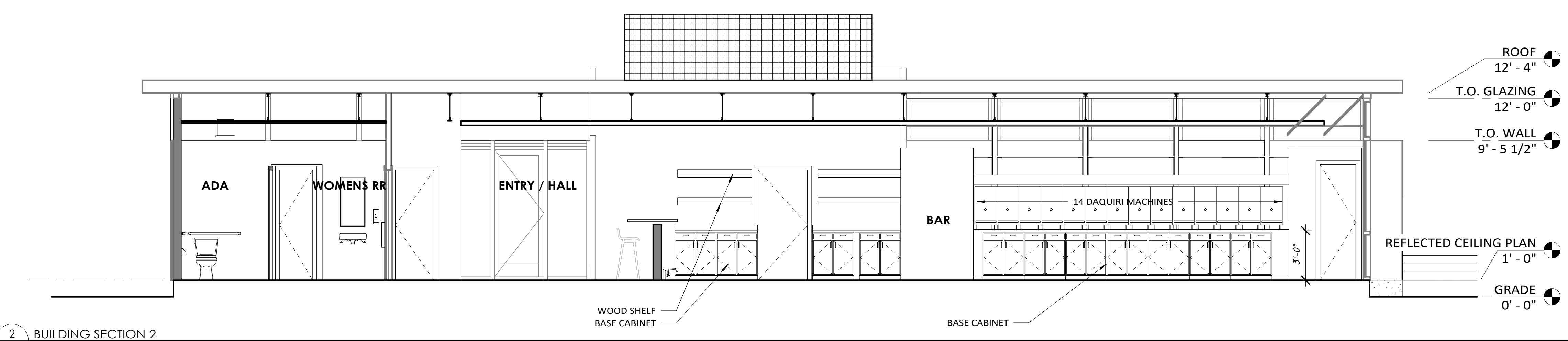


4 EXTERIOR ELEVATION - NORTH
A2.0 1/4" = 1'-0"

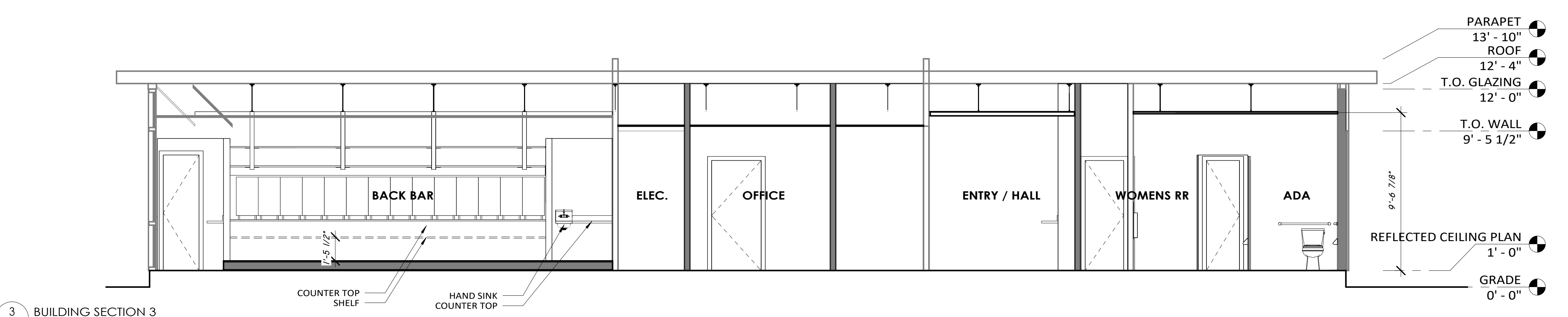
FOR CONSTRUCTION



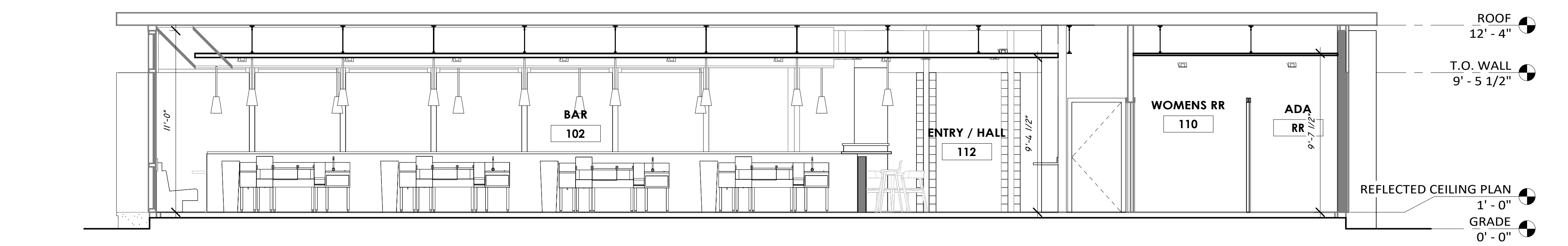
1 BUILDING SECTION 1
A3.0 1/4" = 1'-0"



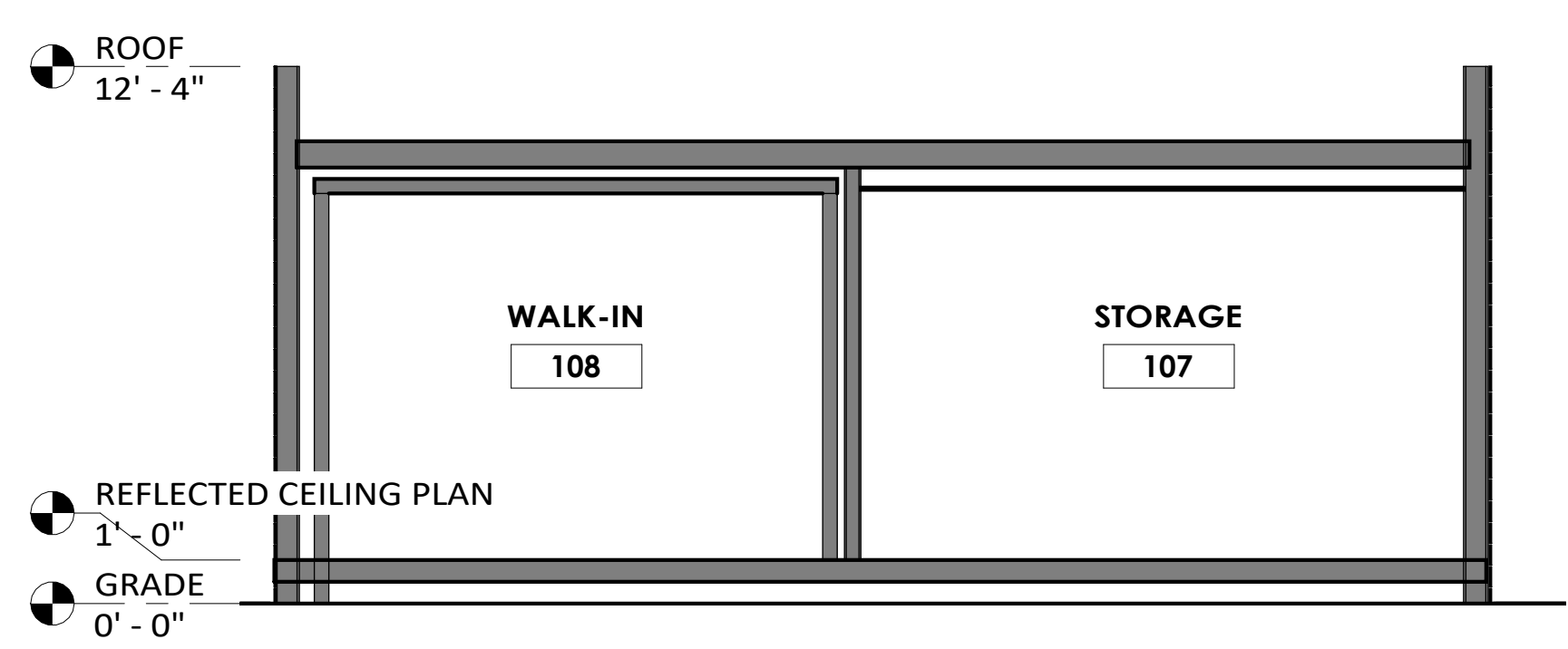
2 BUILDING SECTION 2
A3.0 1/4" = 1'-0"



3 BUILDING SECTION 3
A3.0 1/4" = 1'-0"



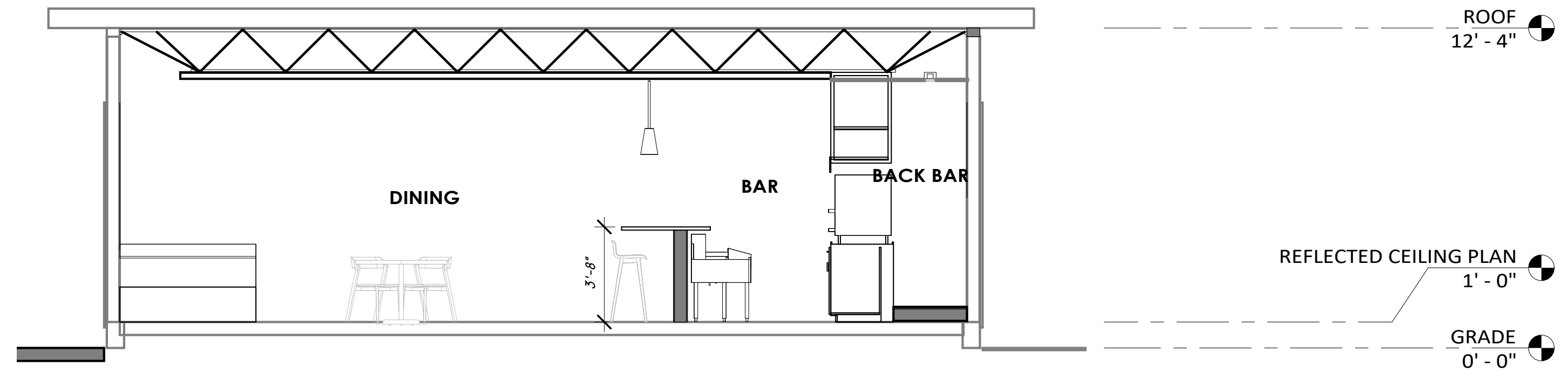
4 BUILDING SECTION 4
A3.0 1/4" = 1'-0"



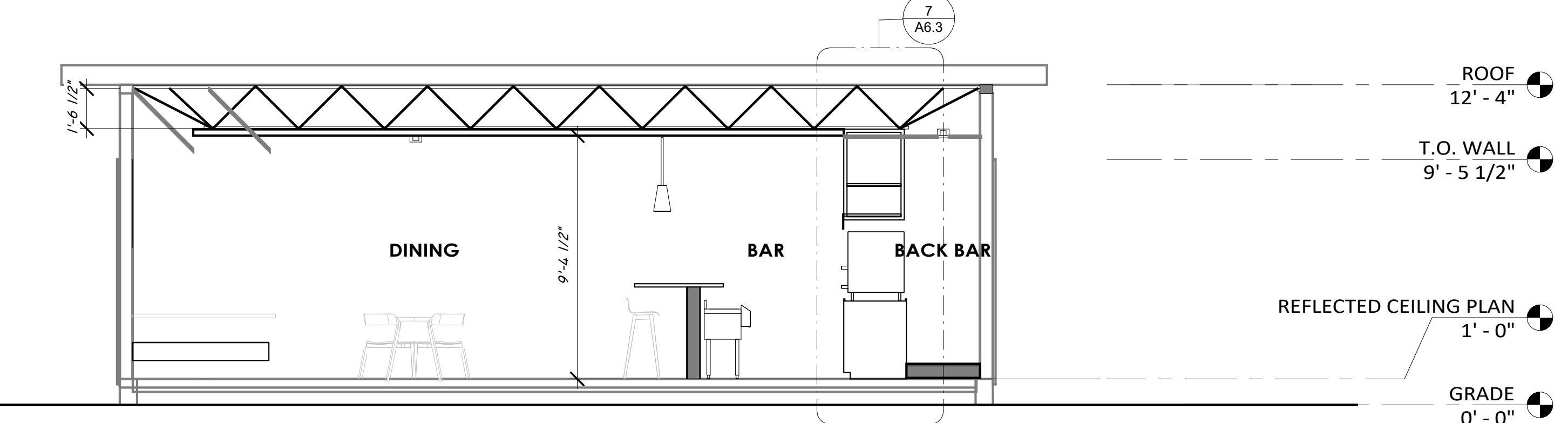
5 BUILDING SECTION 5
A3.0 1/4" = 1'-0"



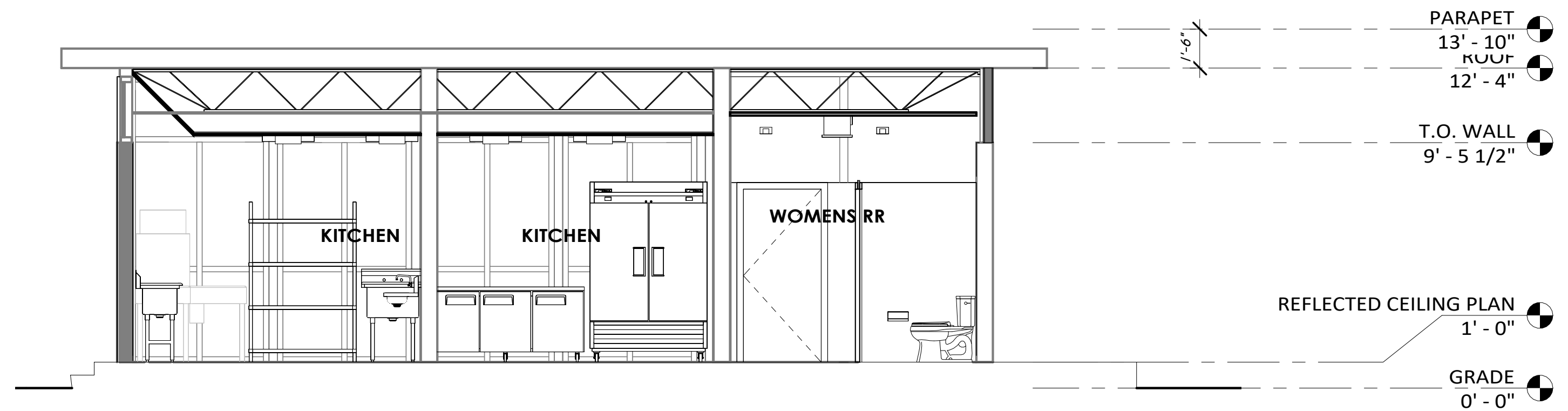
1 BUILDING SECTION 6
A3.1 1/4" = 1'-0"



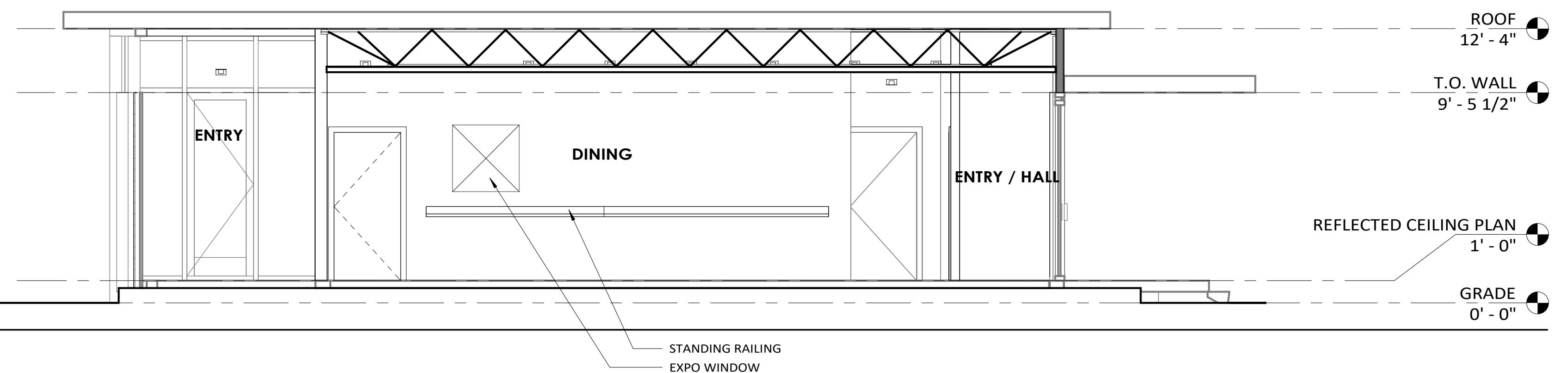
2 BUILDING SECTION 7
A3.1 1/4" = 1'-0"



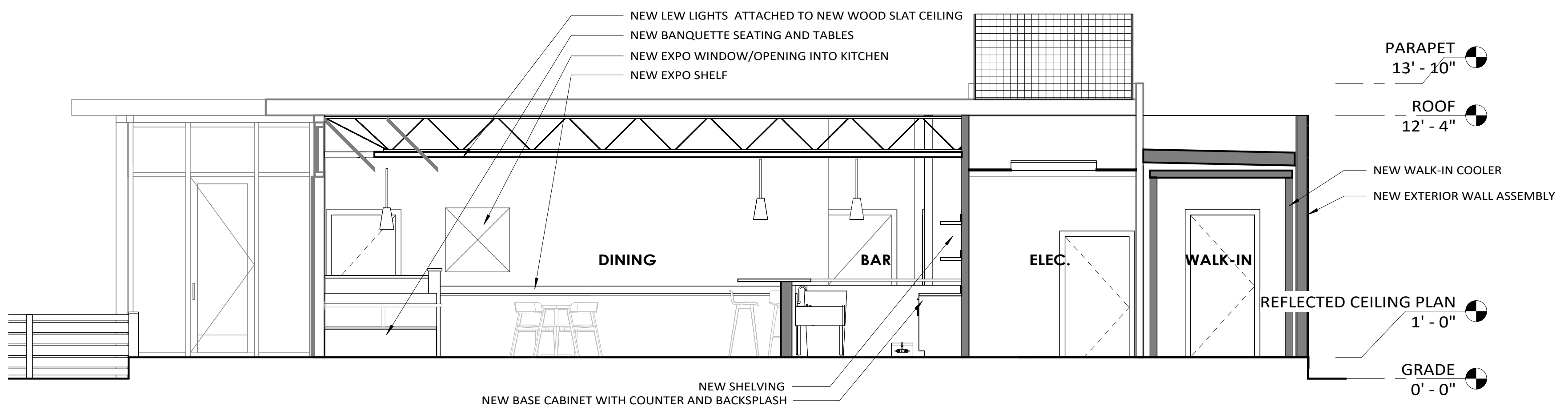
3 BUILDING SECTION 10
A3.1 1/4" = 1'-0"



4 BUILDING SECTION 9
A3.1 1/4" = 1'-0"

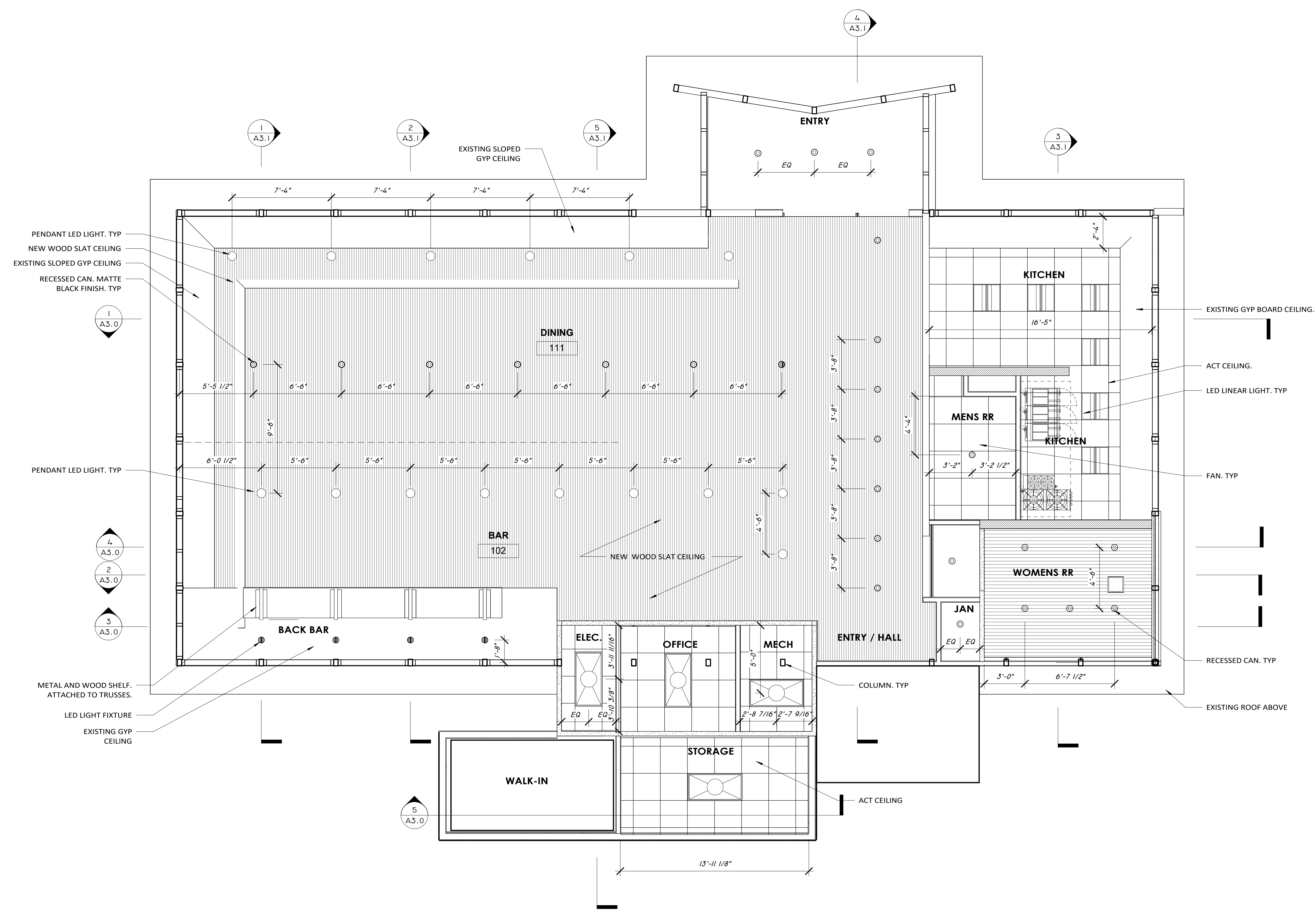


5 BUILDING SECTION 8
A3.1 1/4" = 1'-0"

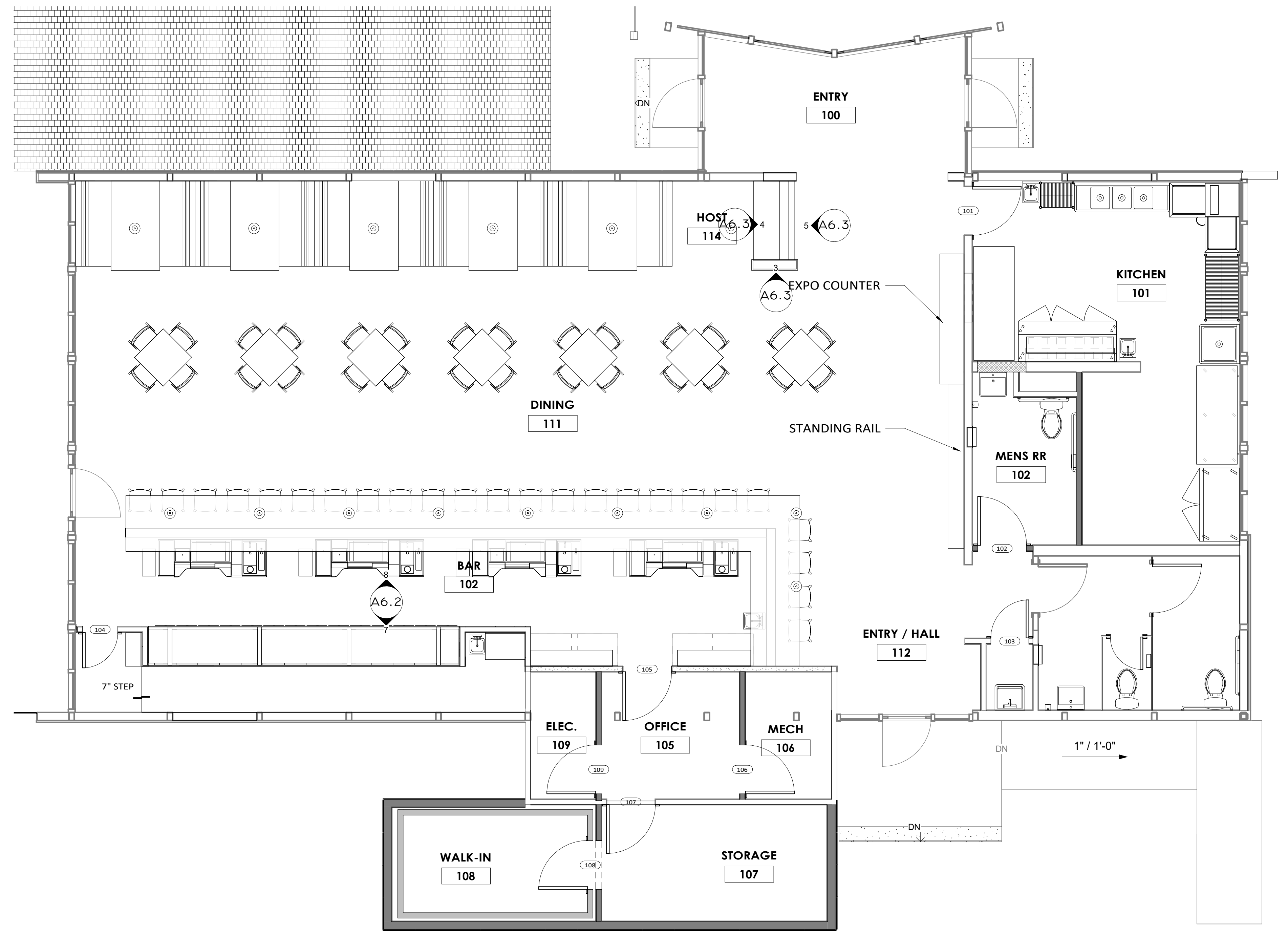




FOR CONSTRUCTION



1 REFLECTED CEILING PLAN
A5.0 1/4" = 1'-0"

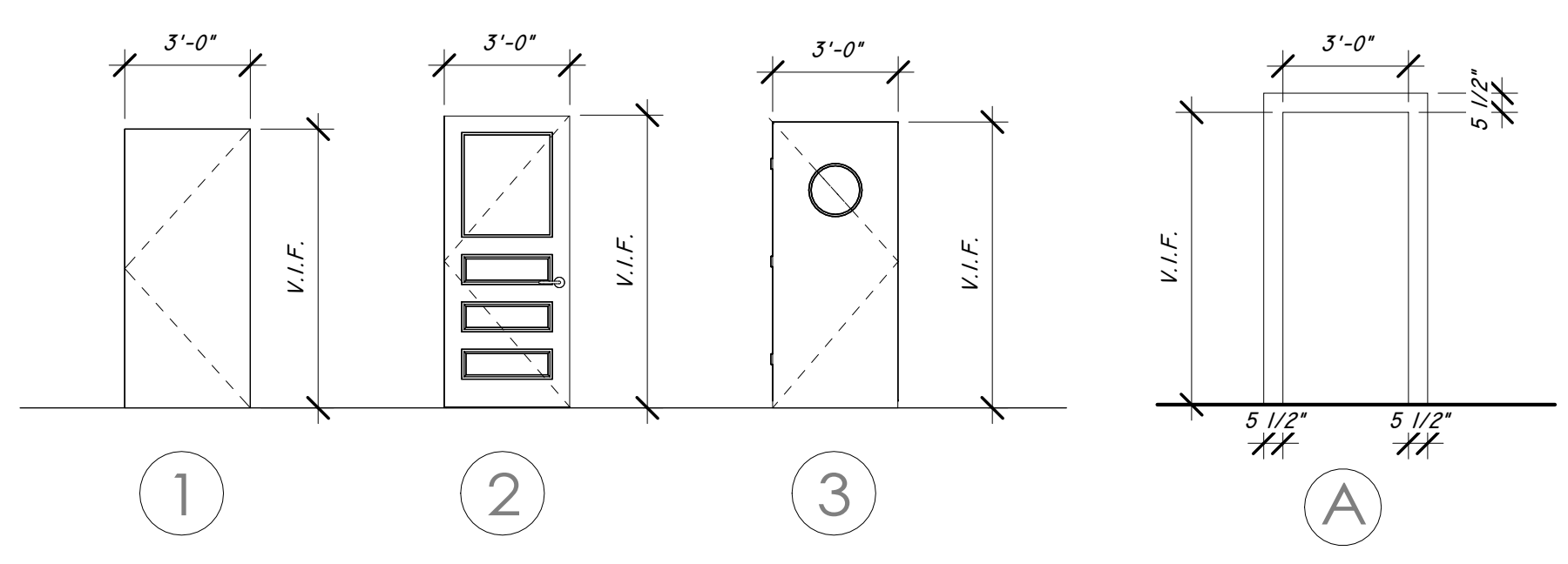


1 FINISH PLAN
A6.1 1/4" = 1'-0"

DOOR SCHEDULE

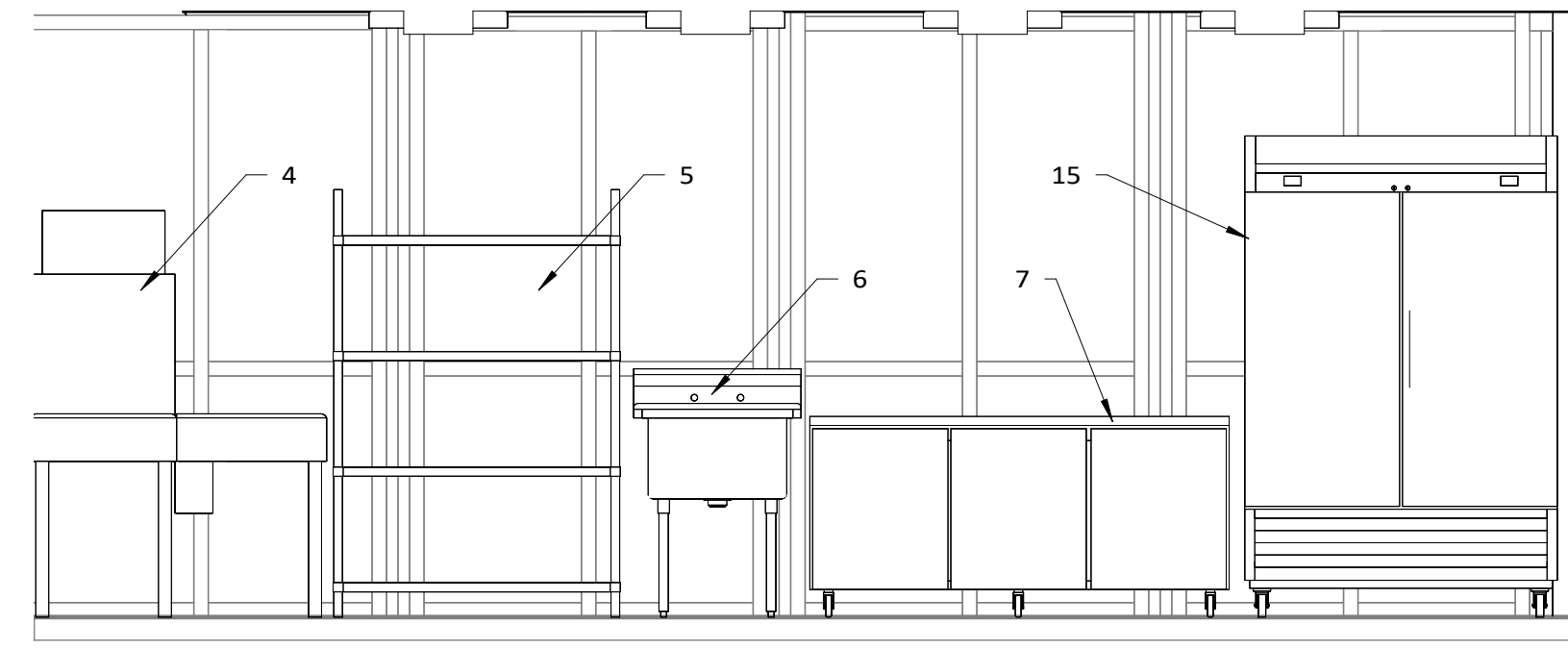
#	Door		Door Type	Frame		Material	Type	Comments
	Width	Height		Finish	Height			
101	3'-0"	6'-8"	3	PT	6'-8"	WD	A	
102	3'-0"	6'-8"	2	PT	6'-8"	WD	A	
103	2'-4"	6'-8"	1	PT	6'-8"	WD	A	
104	2'-2"	7'-0"	3	PT	7'-0"	WD	A	
105	3'-0"	6'-8"	1	PT	6'-8"	WD	A	
106	3'-0"	6'-8"	1	PT	6'-8"	WD	A	
107	3'-0"	6'-8"	3	PT	6'-8"	WD	A	
108	3'-0"	6'-8"	1	N/A	6'-8"	MT	A	WALK IN COOLER
109	3'-0"	6'-8"	1	PT	6'-8"	WD	A	

DOOR TYPES

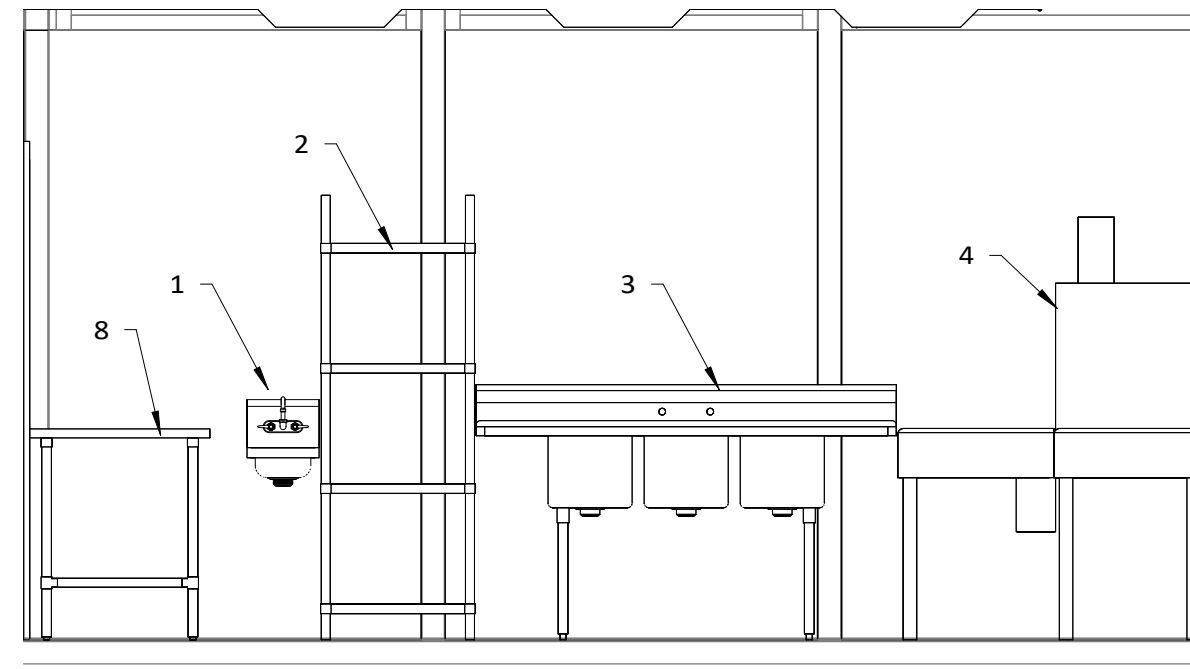


FINISH SCHEDULE

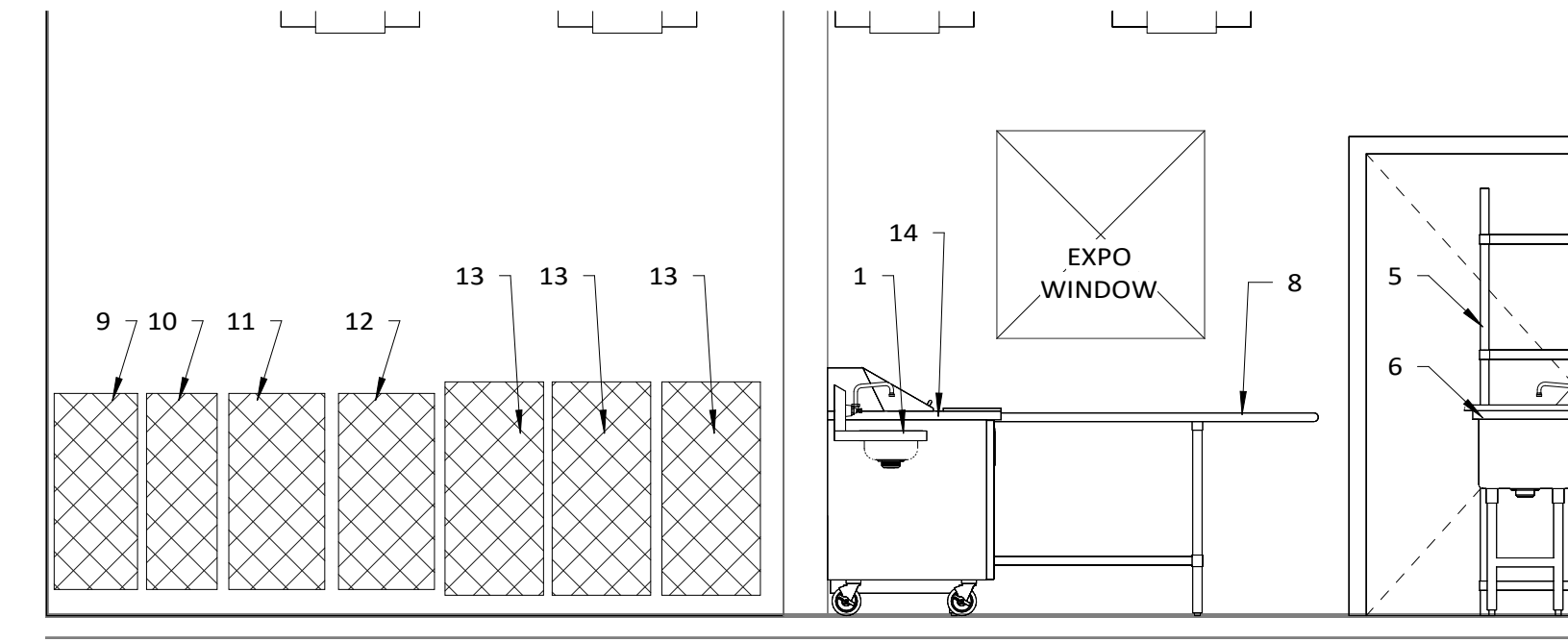
ROOM #	ROOM NAME	AREA	WALL FINISH	FLOOR FINISH	CEILING FINISH
100	ENTRY	131 ft ²	PAINT	TILE	
101	KITCHEN	295 ft ²	PAINT	TILE	ACT
102	MENS RR	62 ft ²	PAINT	TILE	ACT
102	BAR	296 ft ²	PAINT	TILE	WOOD SLAT
103	JAN	11 ft ²	PAINT	TILE	ACT
104	BACK BAR	105 ft ²	PAINT	TILE	WOOD SLAT
105	OFFICE	66 ft ²	PAINT	TILE	ACT
106	MECH	41 ft ²	PAINT	TILE	ACT
107	STORAGE	99 ft ²	PAINT	TILE	ACT
108	WALK-IN	68 ft ²	N/A	N/A	N/A
109	ELEC.	31 ft ²	PAINT	TILE	ACT
110	WOMENS RR	52 ft ²	PAINT	TILE	ACT
111	DINING	1153 ft ²	PAINT	TILE	WOOD SLAT
112	ENTRY / HALL	133 ft ²	PAINT	TILE	WOOD SLAT
114	HOST	26 ft ²	PAINT	TILE	WOOD SLAT
115	REFUSE	233 ft ²	N/A	N/A	N/A



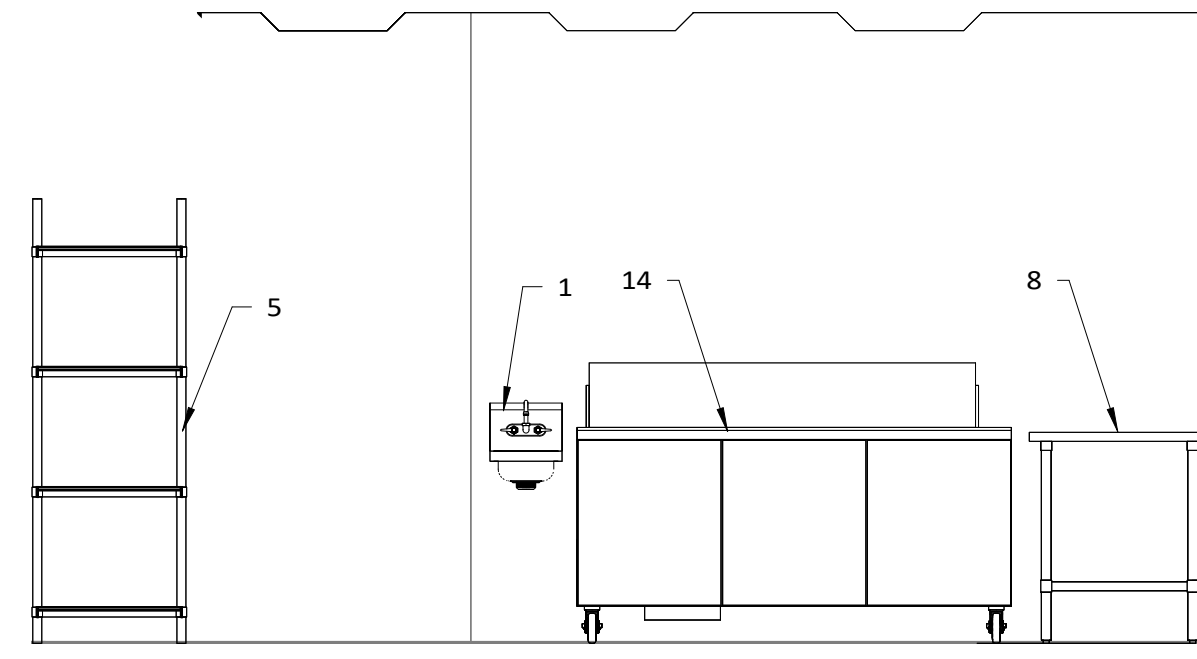
3 INT. ELEV. KITCHEN - 3
3/8" = 1'-0"



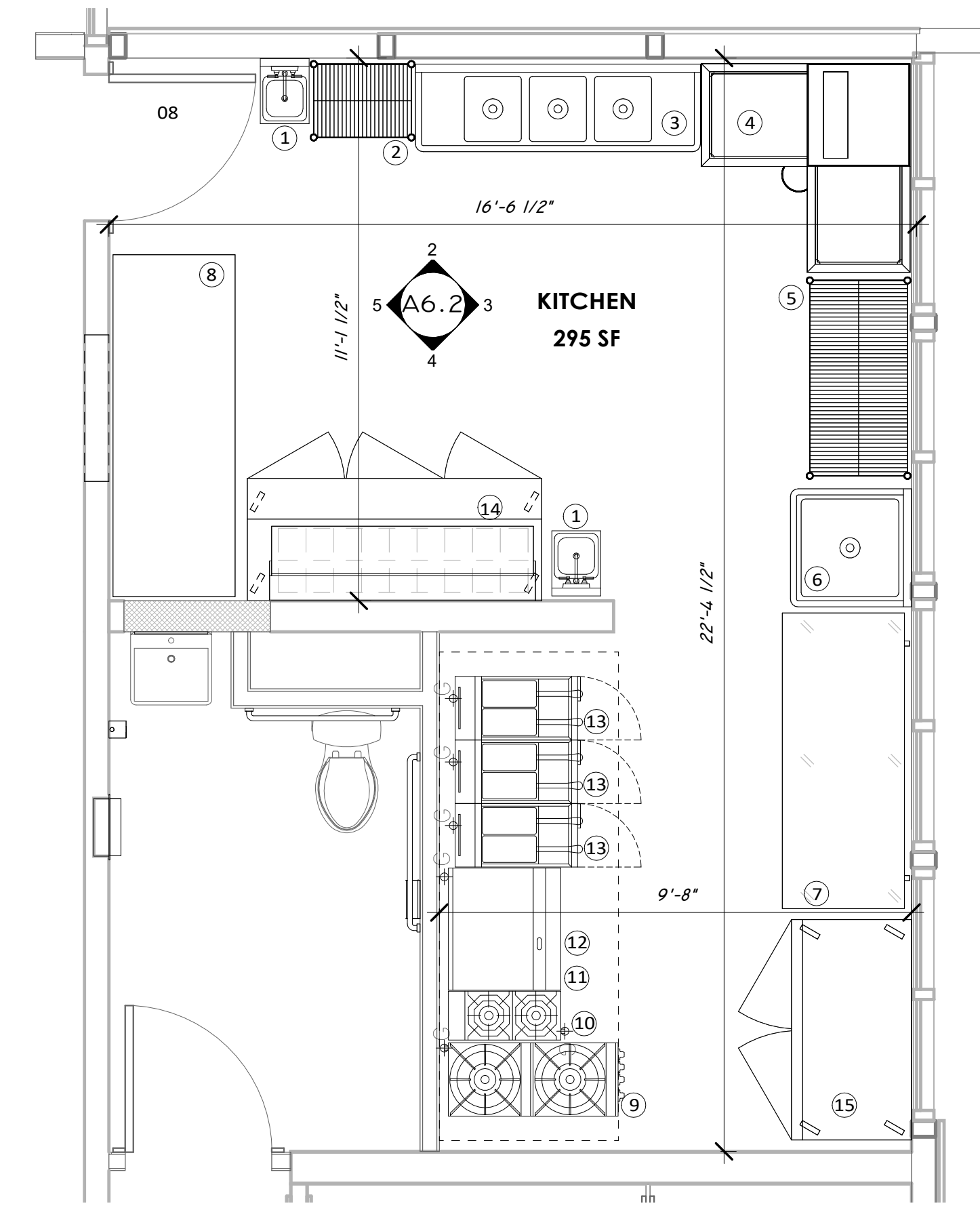
2 INT. ELEV. KITCHEN - 2
3/8" = 1'-0"



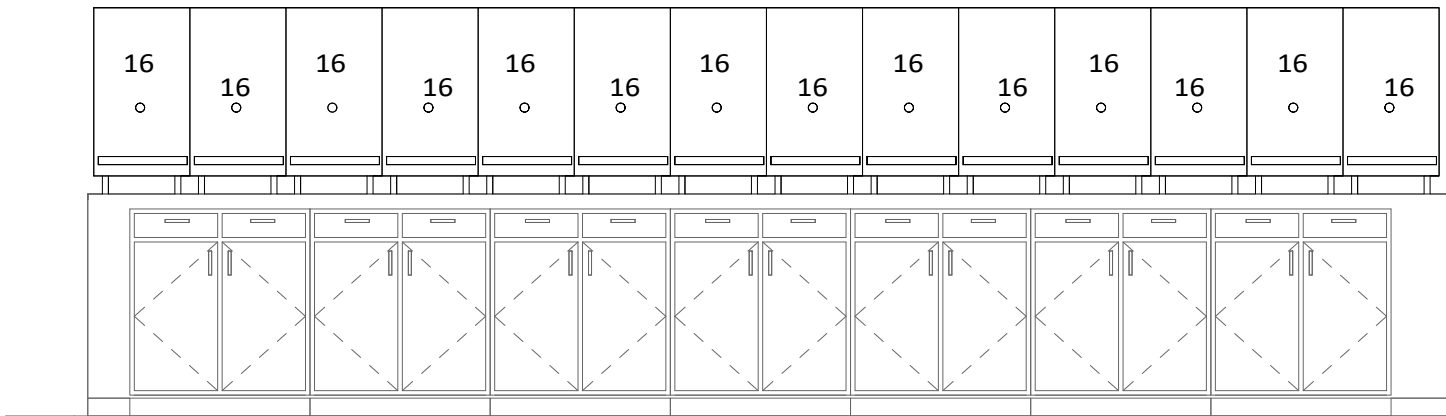
5 INT. ELEV. KITCHEN - 5
3/8" = 1'-0"



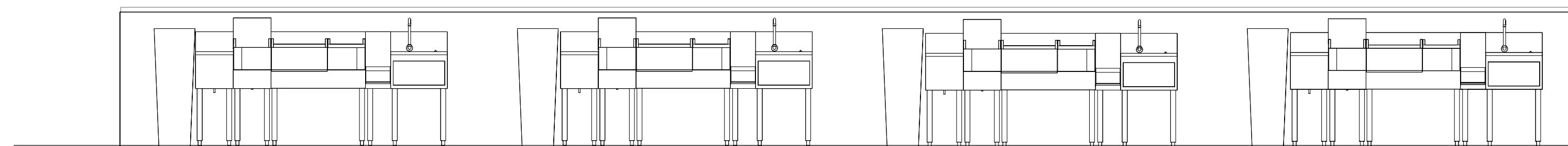
4 INT. ELEV. KITCHEN - 4
3/8" = 1'-0"



1 EQUIPMENT PLAN - KITCHEN
3/8" = 1'-0"



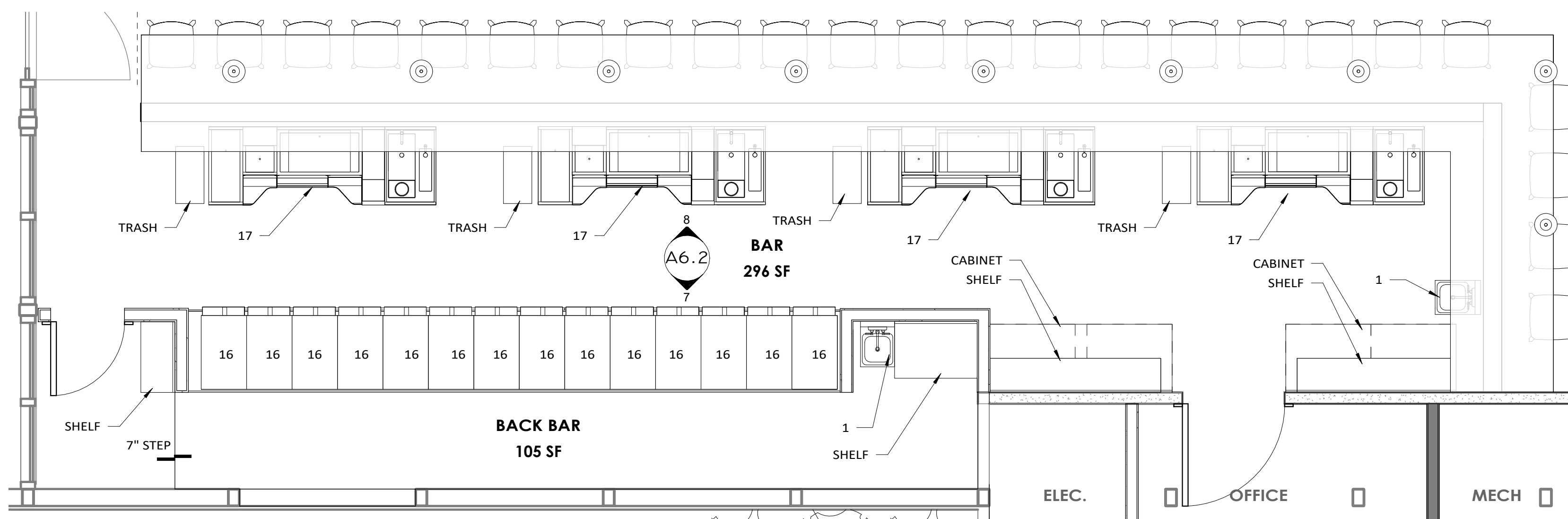
7 INT. ELEV. BAR - 1
3/8" = 1'-0"



8 INT. ELEV. BAR - 2
3/8" = 1'-0"

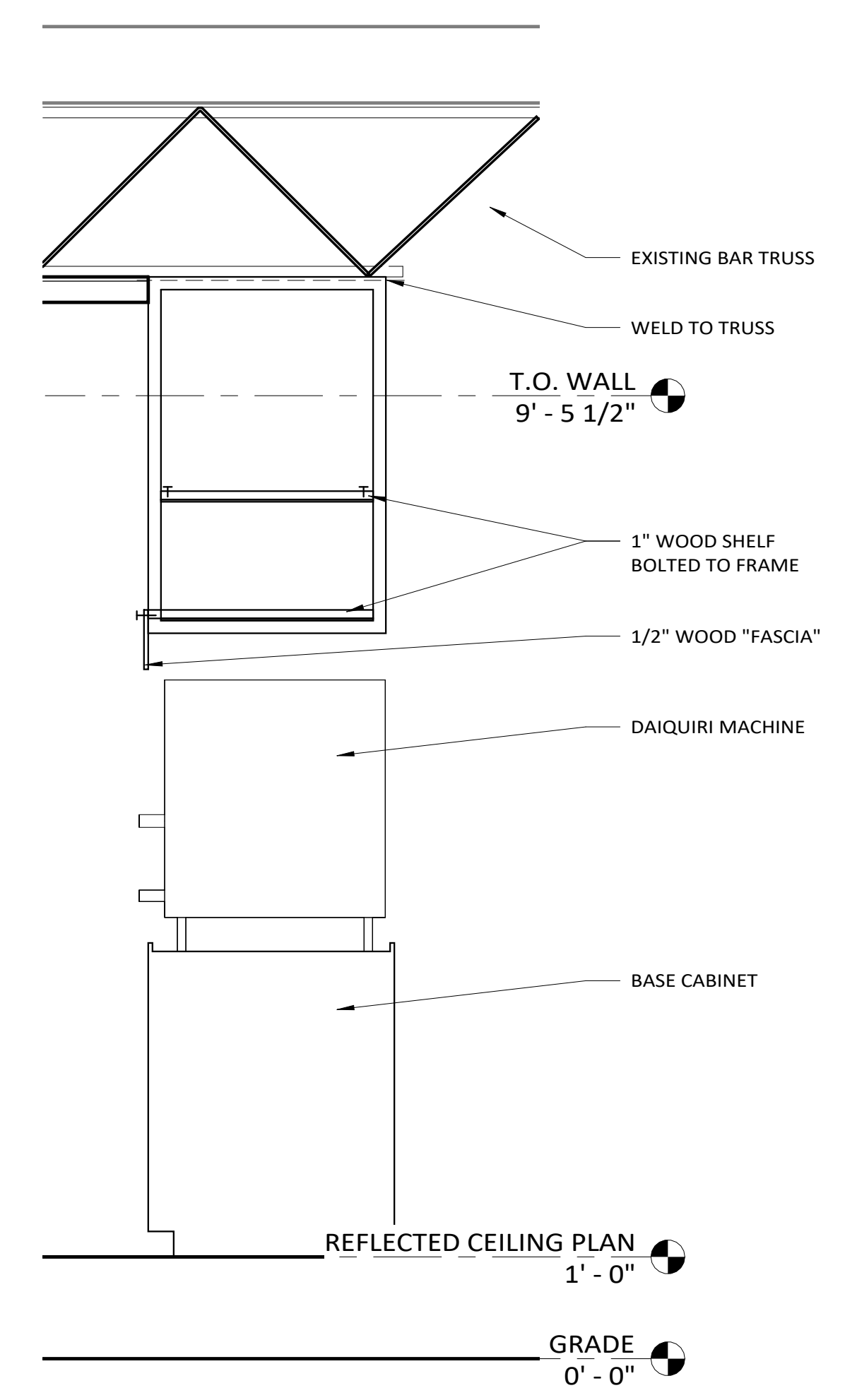
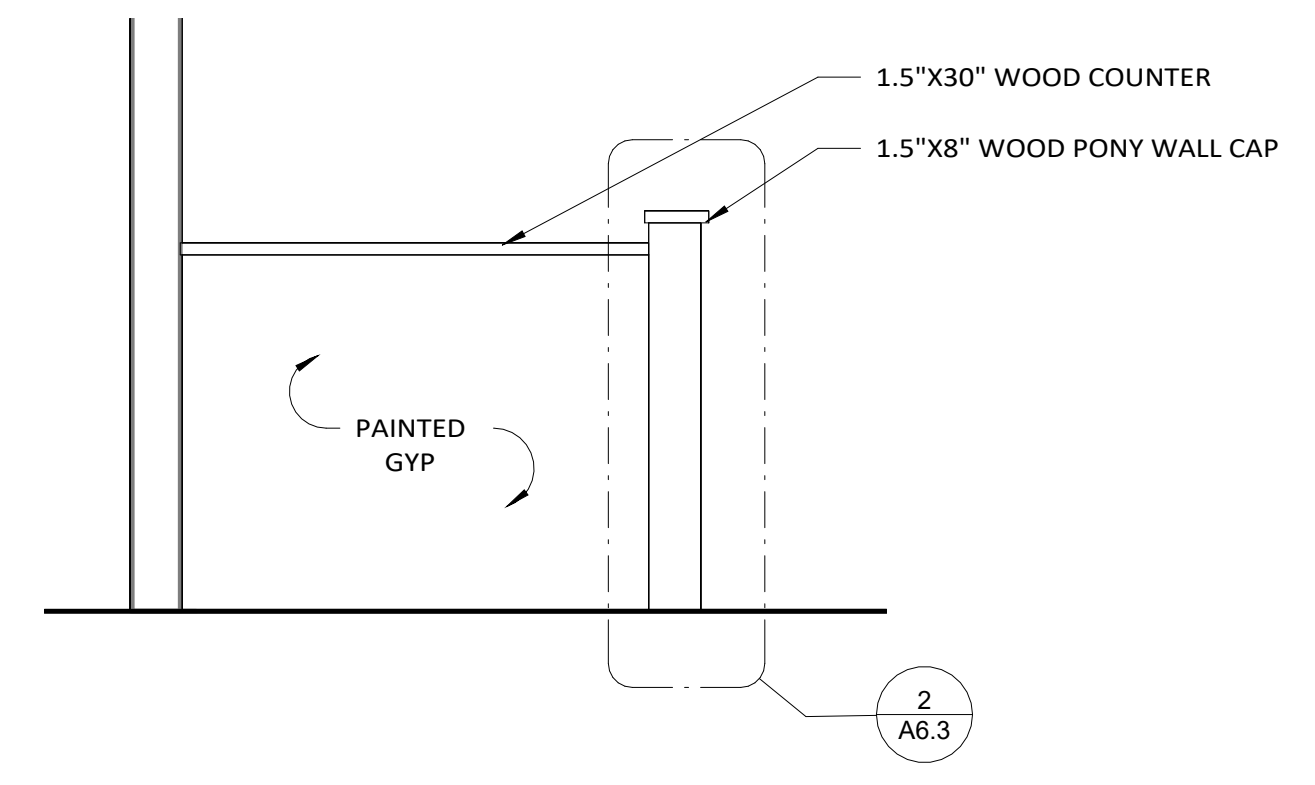
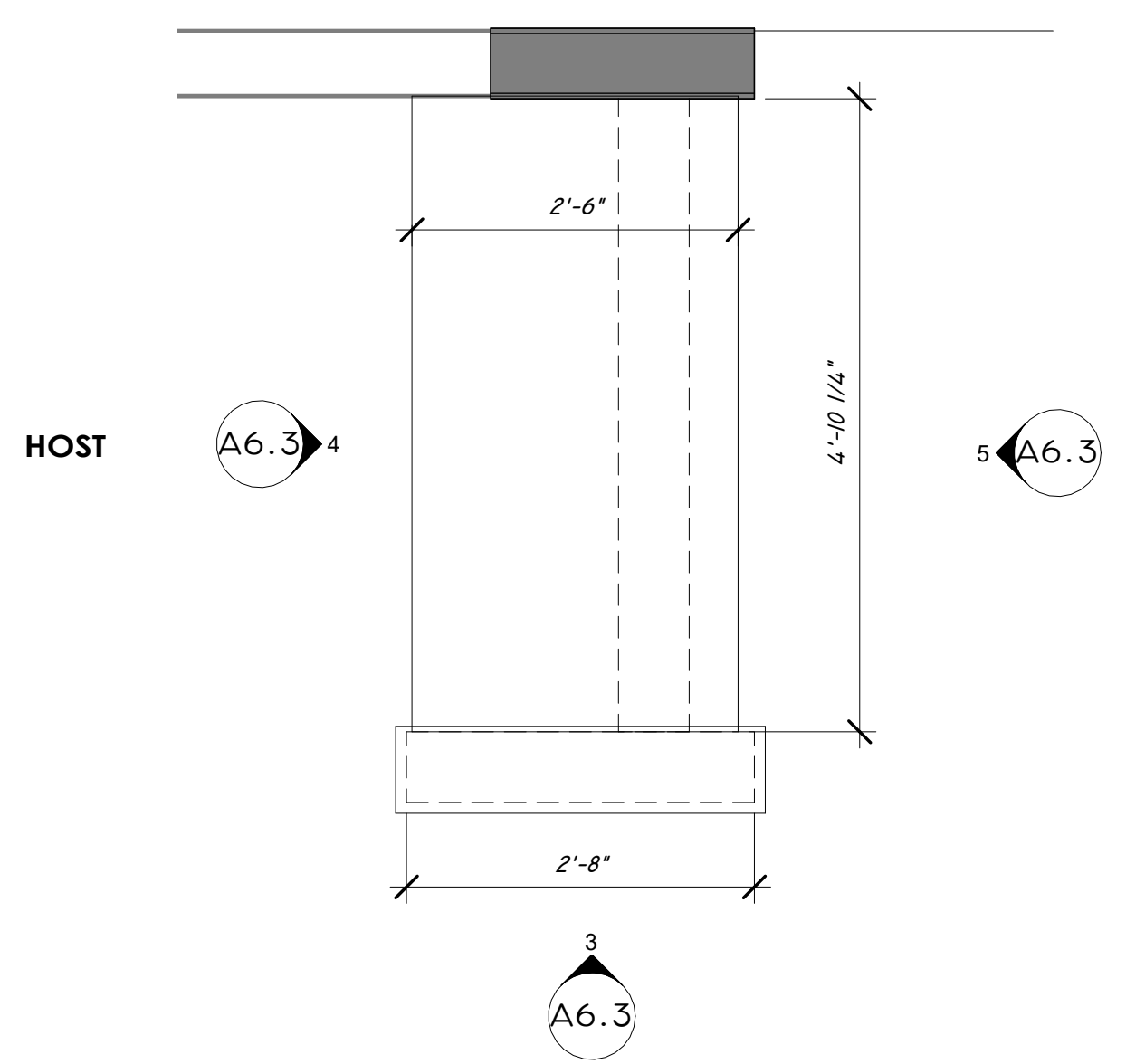
KITCHEN AND BAR EQUIPMENT

#	TYPE	MAKE	MODEL
1	HAND SINK	STEELTON	522HS1216
2	24 X 18 WIRE SHELVING	TBD	TBD
3	70" 3 COMPARTMENT SINK /W DRAINBOARD 2 SIDES	REGENCY	600B31014213
4	CORNER DISH MACHINE	TBD	TBD
5	48 X 24 WIRE SHELVING	TBD	TBD
6	24 X 24 PREP SINK	TBD	TBD
7	72" UNDERCOUNTER FREEZER OR REFRIGERATOR	Advantco	AU-60R-HC
8	30 X 84 WORK TABLE	GSW	WT-EE3084
9	RANGE, STOCK POT	Atosa USA, Inc.	ATSP-18-2
10	HOTPLATE, COUNTERTOP	Atosa USA, Inc.	ACHP-2
11	EQUIPMENT STAND	ATS MFG	48"W x 30"D x 24"H
12	GRIDDLE, COUNTERTOP	Atosa USA, Inc.	30"W x 28-3/5"D x 15-1/5"H
13	FRYER, GAS	Atosa USA, Inc.	15-3/5"W x 30-1/10"D x 44-2/5"H
14	72" MEGA TOP SANDWICH / SALAD REFRIGERATOR	Atosa USA, Inc.	TBD
15	54" UPRIGHT REFRIGERATOR	TRUE	T-19-HC
16	DAQUIRI MACHINE	FROSTY FACTORY	235R
17	COCKTAIL STATION	KROWNE	CRU-60R



6 EQUIPMENT PLAN - BAR
3/8" = 1'-0"

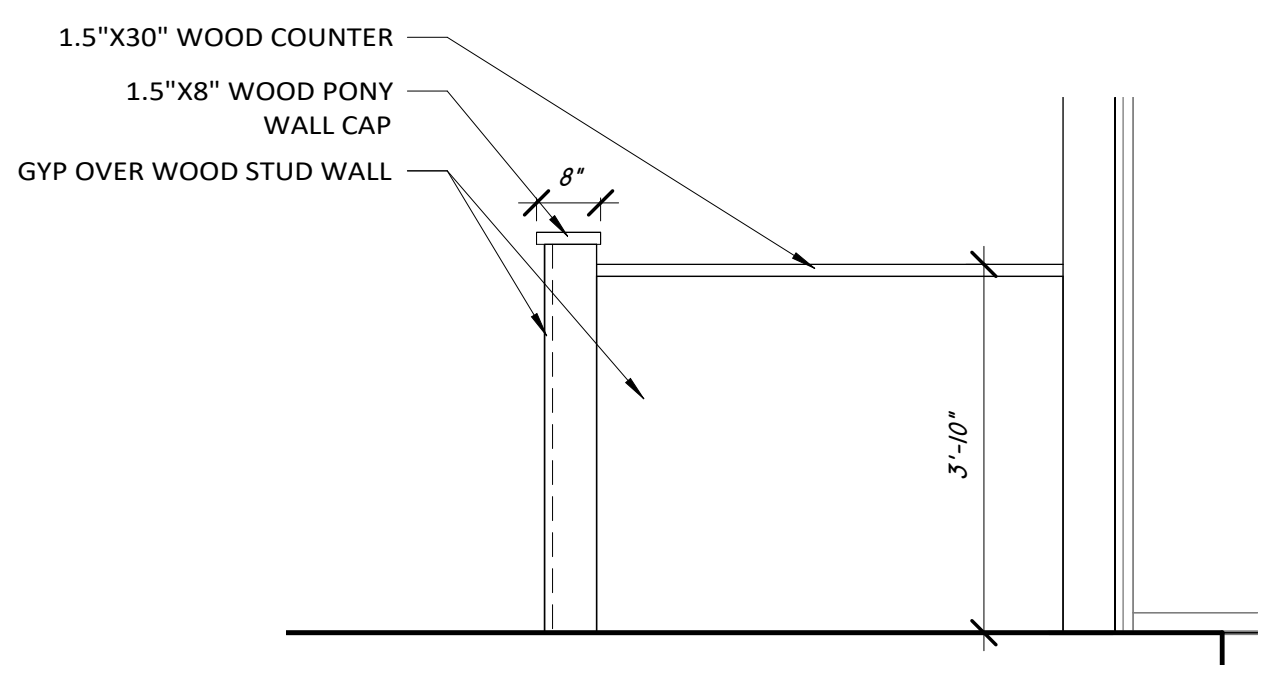
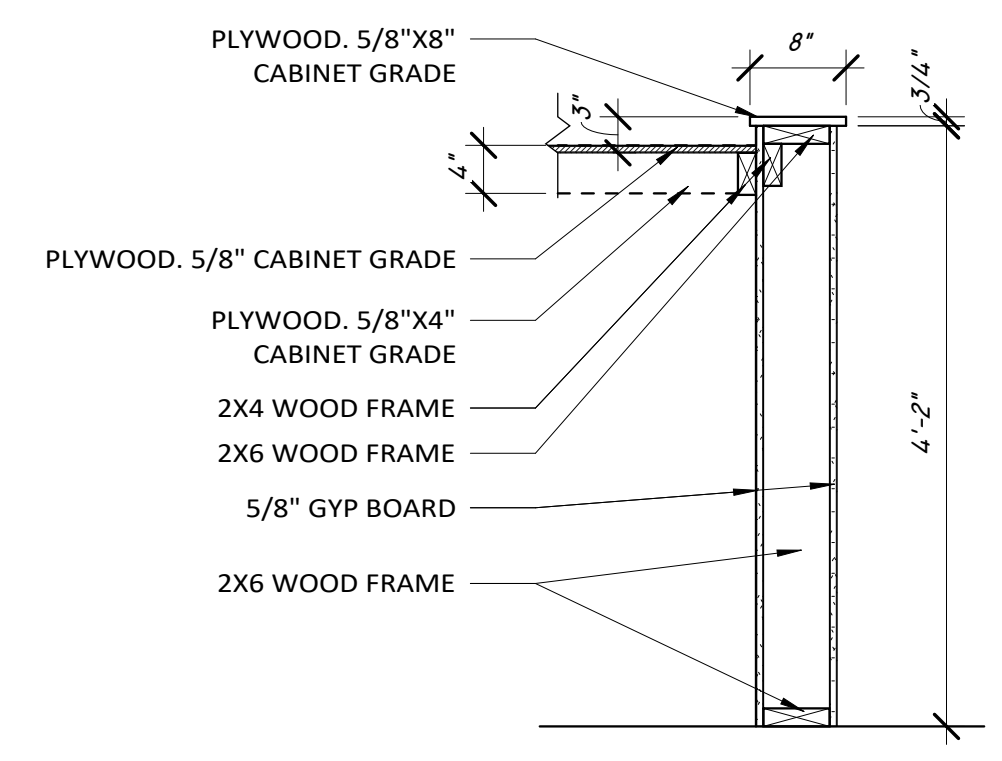
FOR CONSTRUCTION



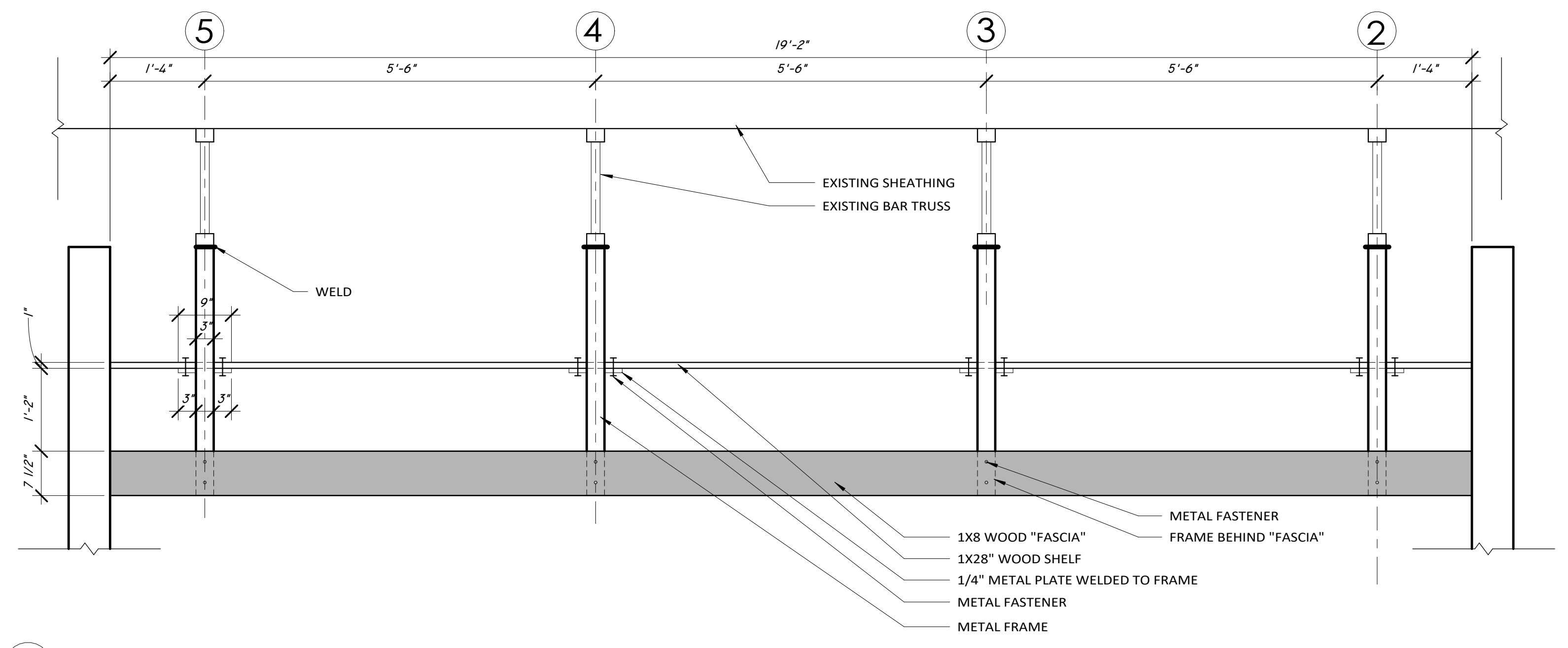
1 FLOOR PLAN - HOST STATION
A6.3 3/4" = 1'-0"

4 DETAIL - HOST STATION ELEVATION 2
A6.3 1/2" = 1'-0"

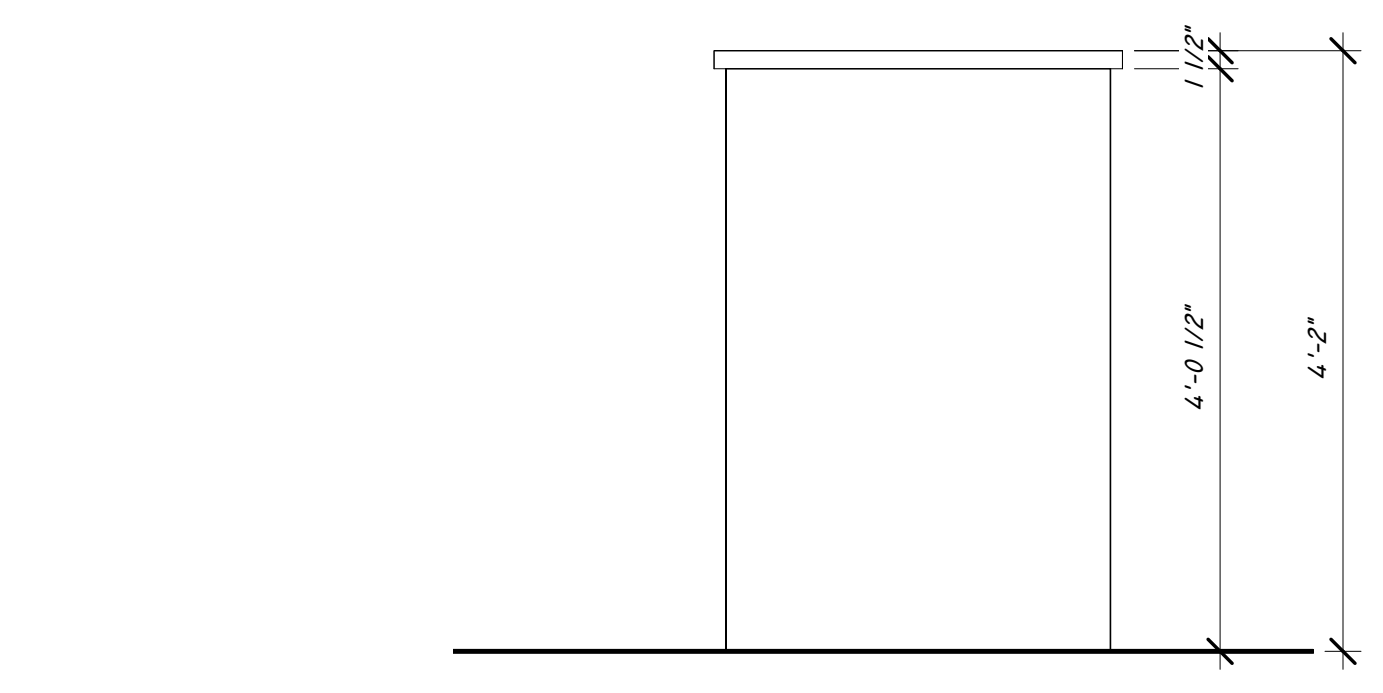
7 SECTION-SHELF ABOVE DAIQUIRI MACHINE
A6.3 3/4" = 1'-0"



5 DETAIL - HOST STATION ELEVATION 3
A6.3 1/2" = 1'-0"

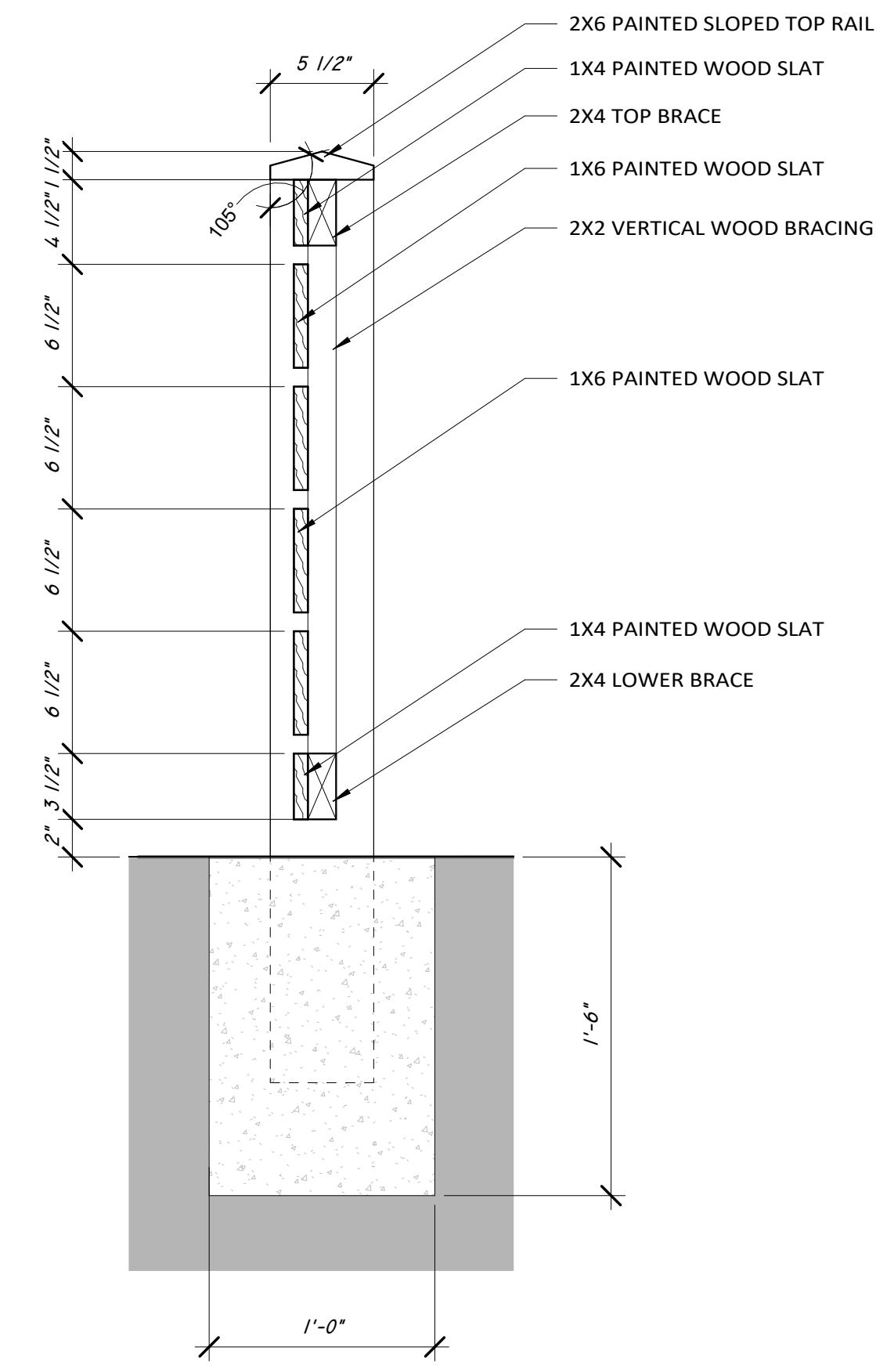


6 ELEVATION-BAR SHELF ABOVE DAIQUIRI
A6.3 3/4" = 1'-0"



3 DETAIL - HOST STATION ELEVATION
A6.3 3/4" = 1'-0"

FOR CONSTRUCTION



1 LOW FENCE SECTION
A7.0 1 1/2" = 1'-0"



REVISIONS

#	DATE	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF SAPP STRUCTURAL ENGINEERING AND INSPECTIONS, LLC AND SHALL NOT BE REPRODUCED OR COPIED IN PART OR WHOLE OR USED IN ANY OTHER PROJECT WITHOUT PRIOR WRITTEN CONSENT BY SAPP STRUCTURAL ENGINEERING AND INSPECTIONS, LLC. DRAWINGS SHALL BE RETURNED UPON REQUEST.

ROSE ARCHITECTS

CIRQUE DAIQUIRI BAR & GRILL

2302 BULL STREET
SAVANNAH, GA 31401

PROJECT NO.	22.269
DATE	01/17/24
DRAWN BY	RP
CHECKED BY	BKS

ADDITION STRUCTURAL PLANS

S1.2

PLAN NOTES:

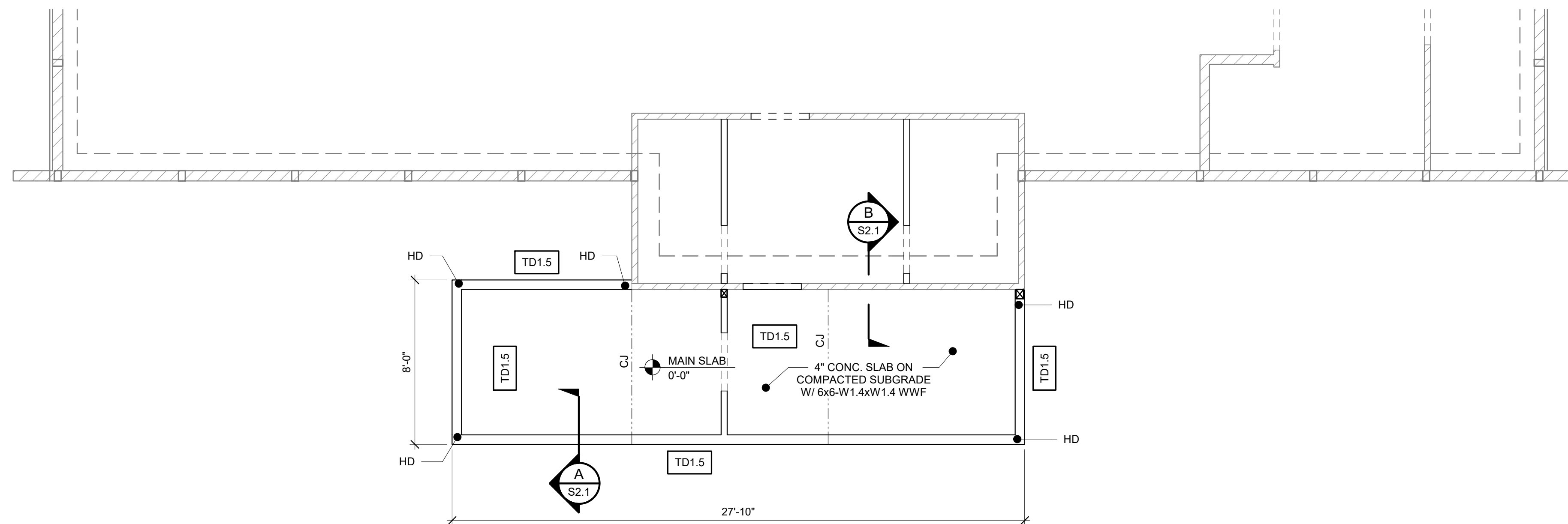
1. T/SLAB ELEV. (0'-0") IS FOR REFERENCE ONLY. COORDINATE ELEVATION DATUM WITH CIVIL AND ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS. DOOR AND WINDOW OPENING LOCATIONS NOT SHOWN.
3. ROOF TOP PLATE EL = 9'-0"

PLAN LEGEND

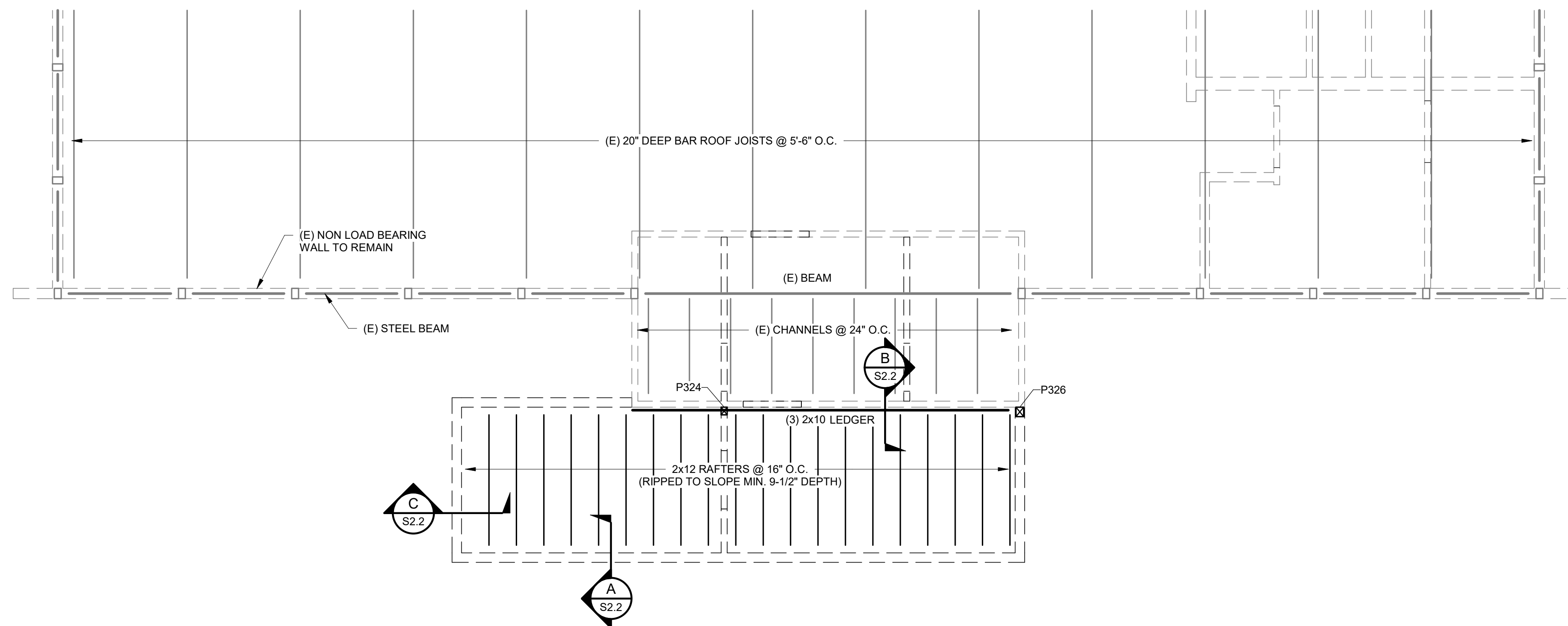
---	FOUNDATION EXTENTS
T#.#	INDICATES TURNDOWN EDGE OR THICKENED SLAB FOUNDATION - SEE SCHEDULE
---CJ---	SLAB CONTROL JOINT
=====	RE-ENTRANT CORNER BARS: (2) #4 x 48" LONG AS CLOSE AS PRACTICAL TO CORNERS
#FT-IN TARGET	ELEVATION INDICATOR RELATIVE TO REFERENCE ELEV.
=====	WALL ABOVE - SIZE AS INDICATED
=====	EXTERIOR STUDS: 2x6 @ 16" O.C.
=====	INTERIOR STUDS: 2x4 @ 16" O.C. U.N.O. BY ARCH.
-----	WALL BELOW - SIZE AS INDICATED
-----	RAFTER - SIZE AS NOTED
☐	WOOD POST SCHEDULE: P324 = (3) 2x4 P326 = (3) 2x6
HD	SHEAR WALL HOLDOWN - SIMPSON HDU2-SDS2.5 WITH 5/8" ANCHOR ROD CAST INTO SLAB FOUNDATION (EMBED = 6") HOLDOWNS SHALL BE ATTACHED TO (2) 2x6 MIN. END POST STUDS.
(E) BEAM/GIRDER SIZE AS MARKED	
☐	(E) HSS COLUMN - SIZE AS MARKED

SLAB FOUNDATION SCHEDULE

TAG	FOOTING SIZE	REINFORCEMENT
TD1.5	1'-6" x CONT. x THICK. FOR B/FTG. TO BE 12" BELOW GRADE & 28" MIN.	BOT: (2)#5 SIDE: (1)#5 CONT. TOP: (1)#5 CONT. BENT DOWEL: #5 @ 18" O.C.



1 FOUNDATION AND SLAB PLAN
1/4" = 1'-0"



2 ROOF FRAMING PLAN
1/4" = 1'-0"

NOTE:
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND FIELD CONDITIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS, FABRICATION OF COMPONENTS, OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER

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 NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

ABBREVIATIONS

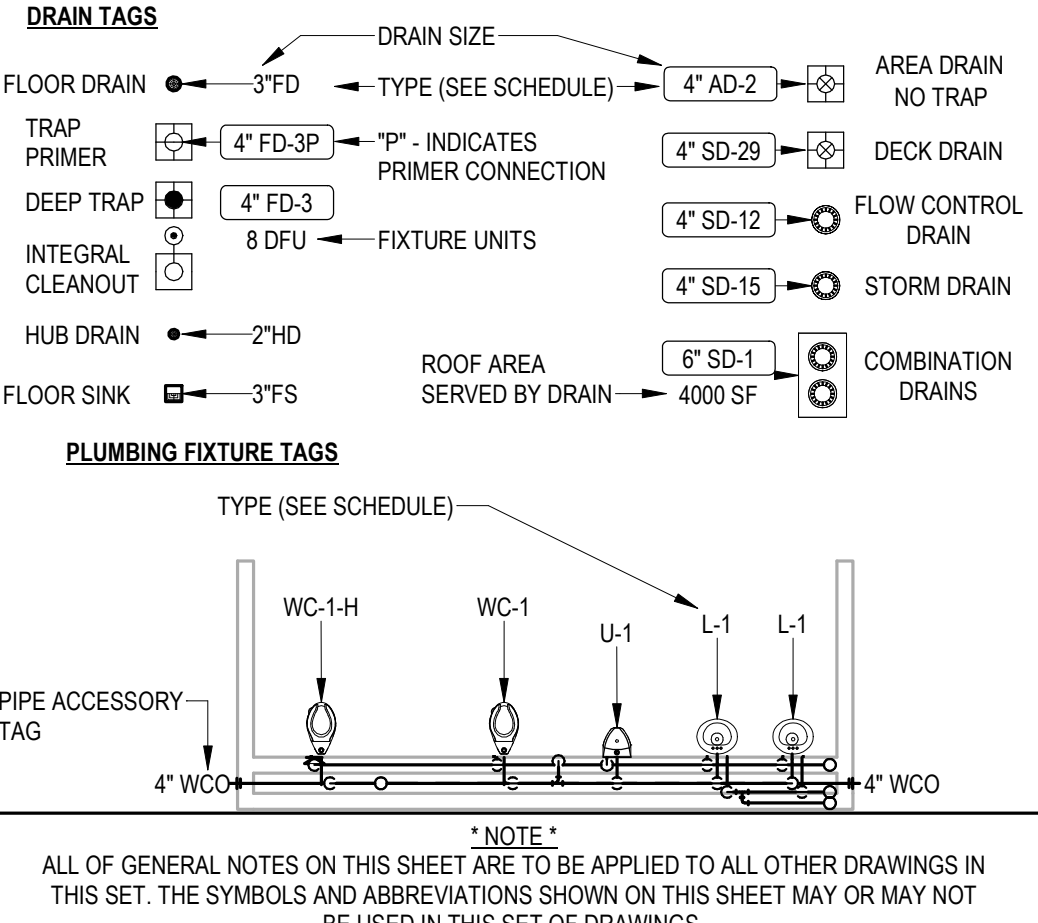
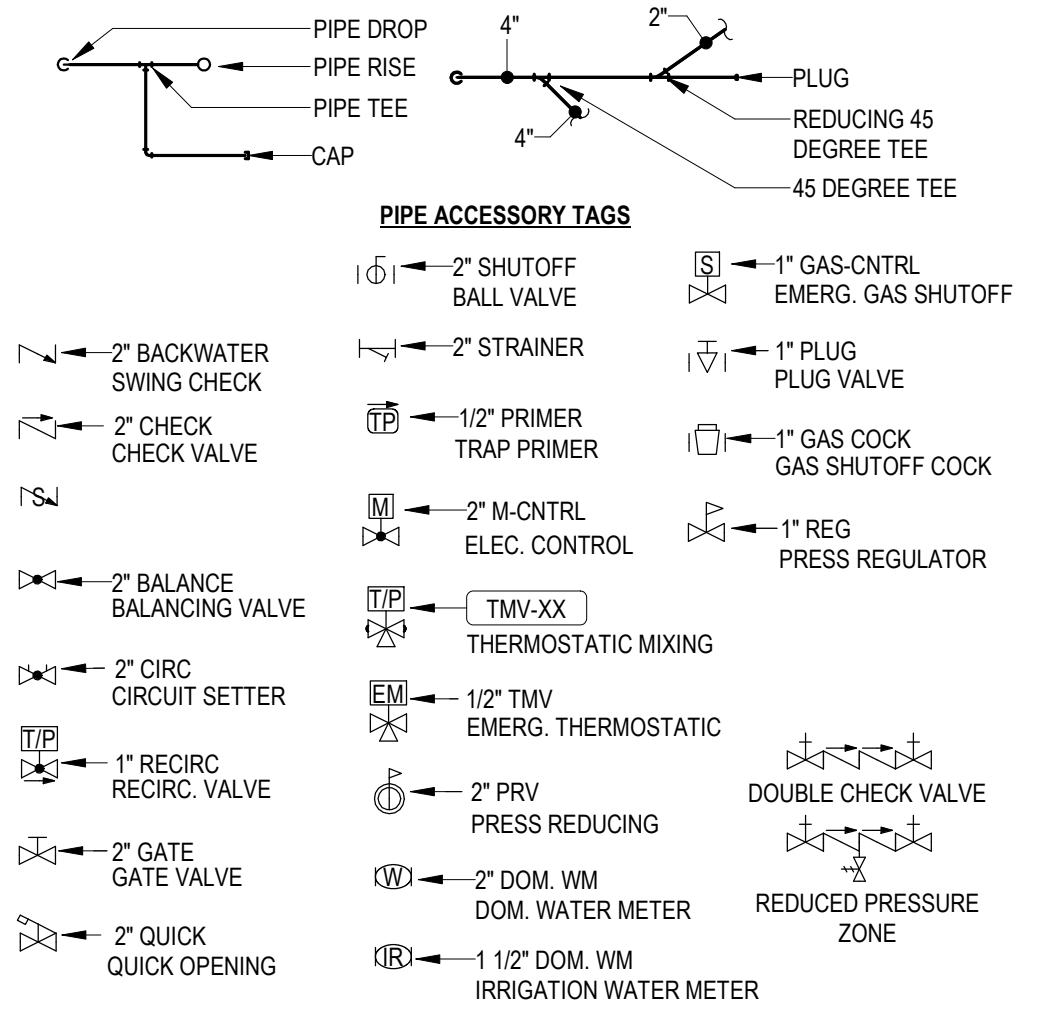
AAV	AIR ADMITTANCE VALVE	LWT	LEAVING WATER TEMPERATURE
ABV	ABOVE	MIA	MIXED AIR
AC	ABOVE CEILING	MAX	MAXIMUM
AD	AREA DRAIN	MBH	ONE THOUSAND BTU PER HOUR
ADD	ADDENDUM	MCF	ONE THOUSAND CUBIC FEET
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
B/F	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NO	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	P/V	POST INDICATOR VALVE
DW	DISTILLED WATER	PRESS	PRESSURE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
EQUIP	EQUIPMENT	PWR	POWER
EWC	ELECTRIC WATER COOLER	R	RED RISER
EWT	ENTERING WATER TEMPERATURE	R/A	RETURN AIR
EIA	EXHAUST AIR	RCP	RADIANT CEILING PANEL
EXIST	EXISTING	RD	ROOF DRAIN
F	DEGREES FAHRENHEIT	REC	RECESSED
FCO	FLOOR CLEAN OUT	RED	REDUCED HUMIDITY
FD	FLOOR DRAIN	RH	RELATIVE HUMIDITY
FDC	FIRE DEPARTMENT CONNECTION	R/LA	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	REV	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	S/A	SUPPLY AIR
FFM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SS	STATIC PRESSURE
GCO	GROUND CLEAN OUT	SS	SANITARY SEWER
GPM	GALLONS PER MINUTE	SV	SHUT OFF VALVE
GW	GREASE WASTE	T	THERMOSTAT
HB	WALL HYDRANT	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	UNO	UNLESS NOTED OTHERWISE
ID	INDIRECT	V	VACUUM
IN	INCH	V	VENT
INV	INVERT	V/V	VARIABLE AIR VOLUME
LB	POUND	VENT	VENTILATION
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
CHHP	CHILLED WATER PUMP	HRV	HEAT RECOVERY 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

	CHWR	CHILLED WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	CD	CONDENSATE DRAINAGE
	CWR	CONDENSER WATER RETURN
	CWS	CONDENSER WATER SUPPLY
	GWR	GEO THERMAL WATER RETURN
	GWS	GEO THERMAL WATER SUPPLY
	HWR	HEATING WATER RETURN
	HWS	HEATING WATER SUPPLY
	G	NATURAL GAS
	PG	PROPANE GAS
	REF-L	REFRIGERANT-LIQUID
	REF-S	REFRIGERANT-SUCTION
	REF-HG	REFRIGERANT-HOT GAS
	STM	STEAM
	CDR	CONDENSATE RETURN
	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
	SV	SANITARY VENT
	SS	SANITARY SEWER
	SHWR	SOLAR HOT WATER RETURN
	SHWS	SOLAR HOT WATER SUPPLY
	RD	STORM DRAINAGE
	OD	OVERFLOW STORM DRAINAGE



- ### PLUMBING GENERAL NOTES
- ALL PLUMBING FIXTURES SHALL BE WATER SENSE LABELED PRODUCTS.
 - PROVIDE AN ACCESS PANEL FOR SHUT-OFF VALVES AND HAMMER ARRESTORS INSTALLED ABOVE A HARD CEILING.
 - WHERE A SINK TAILPIECE IS PROVIDED FOR RECEIVING HVAC DRAINS, ASSOCIATED DRAIN TRAPS SHALL BE INSULATED.
 - COORDINATE INSTALLATION OF PIPING TO PREVENT CONFLICTS.
 - SCHEDULED HEATING CAPACITY FOR WATER HEATERS SHALL BE DELIVERED AT SUPPLIED VOLTAGE.
 - 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 ORDINANCES.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
 - LOCATE PIPING AND PLUMBING EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
 - 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.
 - PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
 - 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.
 - PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
 - FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
 - LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
 - INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
 - THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING FIXTURES.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
 - PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES.
 - ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
 - COORDINATE ALL WORK WITH OTHER TRADES.
 - 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.
 - 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.
 - SANITARY AND WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT MIN.; PIPING LARGER THAN 2" SHALL BE SLOPED AT 1/8" PER FOOT MIN.
 - TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
 - PROVIDE INLINE TRAP SEAL DEVICES ON ALL FLOOR DRAINS, UNO.
 - PROVIDE DRAIN VALVES AT LOW POINTS IN ALL WATER PIPING SYSTEMS.
 - ALL WATER, VENT, AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING, UNO.
 - ALL SOIL, WASTE AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR, UNO.
 - 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.
 - WALL HYDRANTS SHALL BE MOUNTED 18" AFF, UNO. WALL HYDRANTS SHALL BE IN A LOCKABLE RECESSED BOX.
 - PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
 - 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.
 - ALL VENT TERMINALS SHALL BE LOCATED A MIN. OF 10 FEET FROM ANY DOOR OPENING, OPERABLE WINDOW, OR FRESH AIR INTAKE.
 - WHERE MOUNTING HEIGHTS OF FIXTURES CONFLICT WITH FIXTURE HEIGHTS ON THE ARCHITECTURAL DRAWINGS, THE HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE.
 - HEAT TRACE SHALL BE APPLIED TO WATER PIPING INSTALLED IN UNCONDITIONED SPACES.
 - 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.
 - 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.
 - PIPE DRAIN AND HOT WATER SUPPLY TO UNDERCOUNTER DISHWASHERS FROM ADJACENT SINK.
 - PROVIDE THERMAL MIXING VALVE FOR ALL HAND WASH SINKS AND LAVATORIES.
 - 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.
 - DOMESTIC HOT WATER PIPE CONNECTIONS FOR PUBLIC LAVATORY FAUCETS SHALL BE NO MORE THAN 2 FEET FROM THE REGULATOR 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.
 - DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH LEAD-FREE JOINTS.
 - WALL CLEANOUTS SHALL BE LOCATED IN LOCKABLE WALL ACCESS BOX.
 - ALL PLUMBING EQUIPMENT AND VALVES LOCATED ABOVE CEILINGS SHALL BE IDENTIFIED WITH AN ENGRAVED MARKER PERMANENTLY ATTACHED TO THE CEILING GRID.
 - 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.
 - 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 TYPES, ETC. IN THE KITCHEN. THE PLUMBING CONTRACTOR SHALL PROVIDE THE SUPPLY VALVES, P-TRAPS, DRAINS, INDIRECT DRAINAGE, ETC. TO PROVIDE A COMPLETE WORKING KITCHEN SYSTEM. FINAL CONNECTIONS TO THE KITCHEN EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR.
 - KITCHEN WASTE PIPING WHERE 140°F OR WARMER LIQUIDS ARE DISCHARGED MUST BE CAST IRON.
 - REMOVE ALL UNUSED PIPING AND ACCESSORIES.
 - 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.
 - 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.
 - 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.
 - FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
 - ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
 - FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
 - PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.
 - WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

DOMESTIC FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	MANUFACTURER	MODEL	TYPE	WASTE ROUGH-IN PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	SPECIFICATION
HB/E	EXTERIOR WALL HYDRANT	WOODFORD	B65				MANUAL				NON-FREEZE TYPE WALL HYDRANT, IN LOCKABLE RECESSED BOX. PROVIDE SHUT OFF VALVE IN ACCESSIBLE LOCATION.
HB/I	HOSE BIBB	WOODFORD	B24				MANUAL	3/4"			ANTI-SIPHON INTERIOR HOSE BIBB, 3/4" FEMALE HOSE COUPLING THREAD, IN LOCKABLE RECESSED BOX. PROVIDE SHUT OFF VALVE IN ACCESSIBLE LOCATION.
HBR	ROOF HYDRANT	WOODFORD	RHY2-MS				MANUAL	3/4"			NON-FREEZE TYPE ROOF HYDRANT, PROVIDE SHUT OFF VALVE IN ACCESSIBLE LOCATION.
L-1	LAVATORY	AMERICAN STANDARD	LUCERNE	WHITE VITREOUS CHINA	ZURN	Z81000-XL	SINGLE HANDLE FAUCET, 4" CENTERS, CHROME PLATED	2"	1/2"	1/2"	WALL HUNG WITH BACKSPASH, VITREOUS CHINA, NOMINAL 20-1/2"x18-1/4", FAUCET HOLES ON 4" CENTERS, FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. FAUCET EQUALS BY 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	VACUUM BREAKER, INTEGRAL STOPS, CHROME PLATED	3"	1/2"	1/2"	MOLDED STONE, FLOOR MTD. 24"x24". FIXTURE EQUALS BY SWAN & ZURN. FAUCET EQUALS BY FIAT & SWAN. BUMPERGUARDS & HOSEBRACKET BY FIAT, SWAN OR ZURN. WALL GUARDS BY FIAT OR ZURN.
P-1	ICE MAKER SUPPLY BOX	SIoux CHIEF	696-RG1010MF	ABS PLASTIC					1/2"		RECESSED ICE MAKER SUPPLY BOX WITH HAMMER ARRESTOR. EQUALS BY OATEY & GUY GRAY.
WC-1	WATER CLOSET - FLOOR - TANK TYPE	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	TANK TYPE			3"	1/2"		ELONGATED BOWL WATER CLOSET, 15" RIM HT. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. SEAT BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.
WC-1-H	WATER CLOSET - FLOOR - TANK TYPE - ADA	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	TANK TYPE			3"	1/2"		ELONGATED BOWL WATER CLOSET, 18" RIM HT. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. SEAT BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.

*COORDINATE ALL FIXTURE, TRIMS & FINISHES WITH ARCHITECT.

DRAIN SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION		WASTE PIPE SIZE	SPECIFICATION
				DRAIN BODY	STRAINER		
3"FD	FLOOR DRAIN	WATTS	FD-100-A	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, NO HUB OUTLET.
3"FS	FLOOR SINK	WATTS	FS-710	EPOXY COATED CAST IRON		3"	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.

DOMESTIC CIRCULATING PUMP SCHEDULE

ID	TYPE	PUMP		MOTOR	REMARKS
		DESIGN FLOW	HEAD		
HWC-1	INLINE	2.0 GPM	10.0 FT	0.33 hp	CONNECTED TO WH-1, SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA

GAS-FIRED WATER HEATER SCHEDULE

ID	NAME	NO.	MANUFACTURER	MODEL NO.	GAS-FIRED HEAT EXCHANGER		
					GAS BURNER	WATERSIDE STORAGE	UNIT WEIGHT
					INPUT	VOL	
WH-1	MECH	108	AO SMITH	BTH-120	120000 Btu/h	60.0 gal	991 lb

GREASE INTERCEPTOR SCHEDULE

ID	MANUFACTURER	MODEL	SPECIFICATION
GI-1	ZURN	GT-2700-75	75 GPM, 150 LB GREASE CAPACITY, CORROSION-RESISTANT COATED FABRICATED STEEL, VENTED INLET FLOW CONTROL DEVICE

HAMMER ARRESTOR SCHEDULE

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

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 EVERY 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 WOG. 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 NIKALLOY 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-PROOFSTEM 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 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 LOCKED FLUE. WATER HEATERS SHALL UTILIZE A REMOTE TEMPERATURE THERMOSTAT CONTROLLER TO PROVIDE AN ADJUSTABLE SET POINT RANGE OF 98 °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.

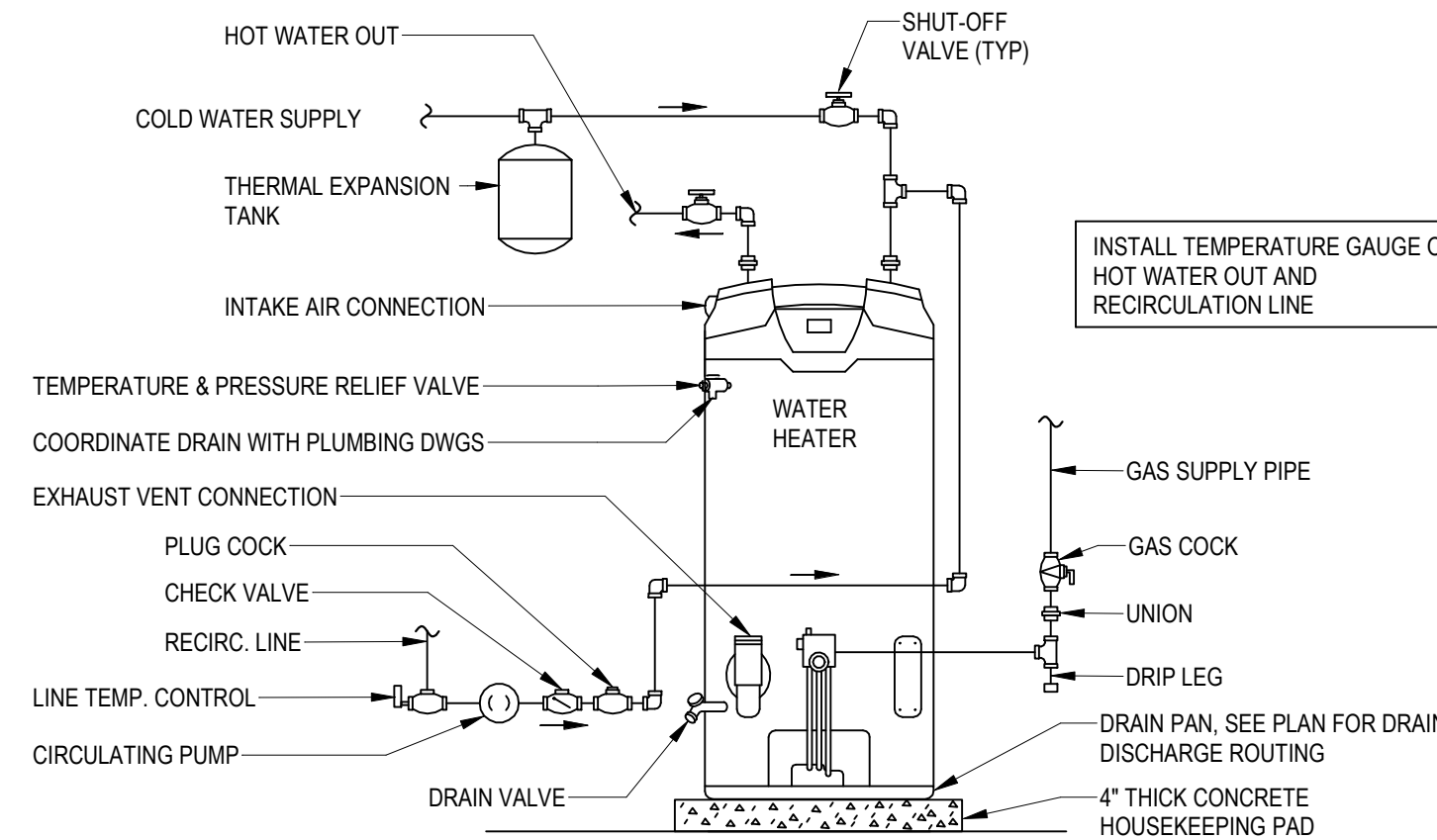
PIPE INSULATION: INSULATION SHALL BE PREFORMED, TWO-PIECE, HEAVY DENSITY FIBERGLASS WITH SELF SEALING ASJ JACKET CONFORMING TO FS HH-I-558 FORM D OR CELLULAR FOAM. TYPE III, CLASS 12. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION OF THE SAME MATERIAL THICKNESS AS INSULATION ON ADJACENT PIPE AND HAVING A MOLDED PVC JACKET. JACKETS SHALL BE CERTAINTED 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.

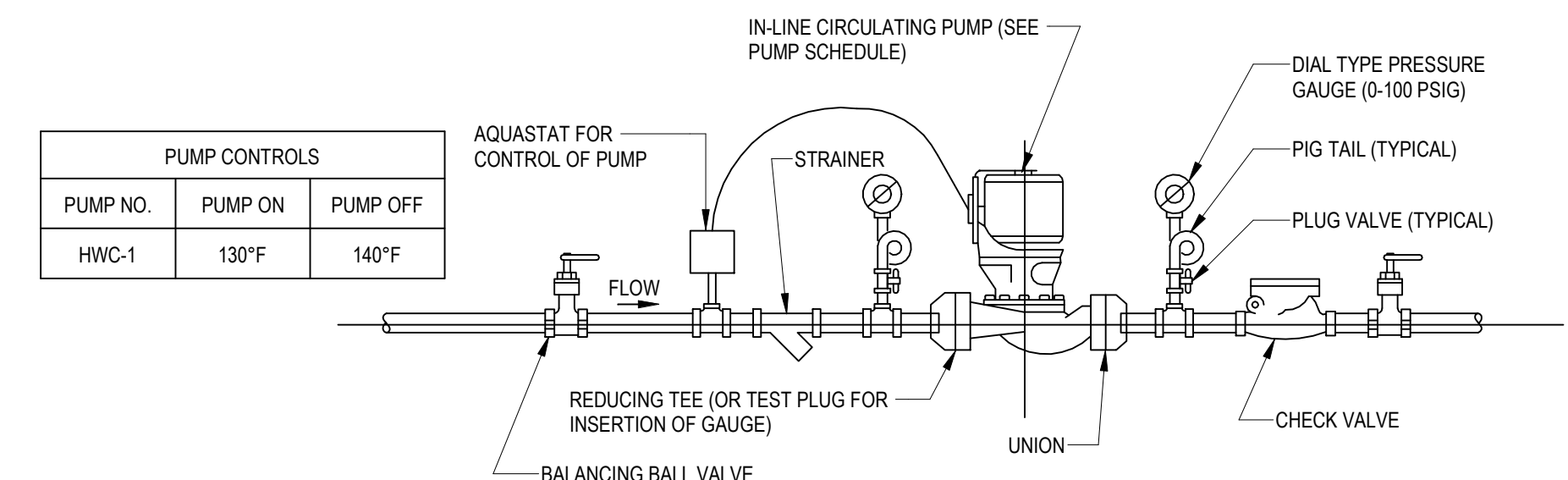
TESTING: THE HYDROSTATIC TEST SHALL BE MADE UPON COMPLETION OF THE ROUGHING-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER AND HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEM SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 100 PSIG AND PROVIDE TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT 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

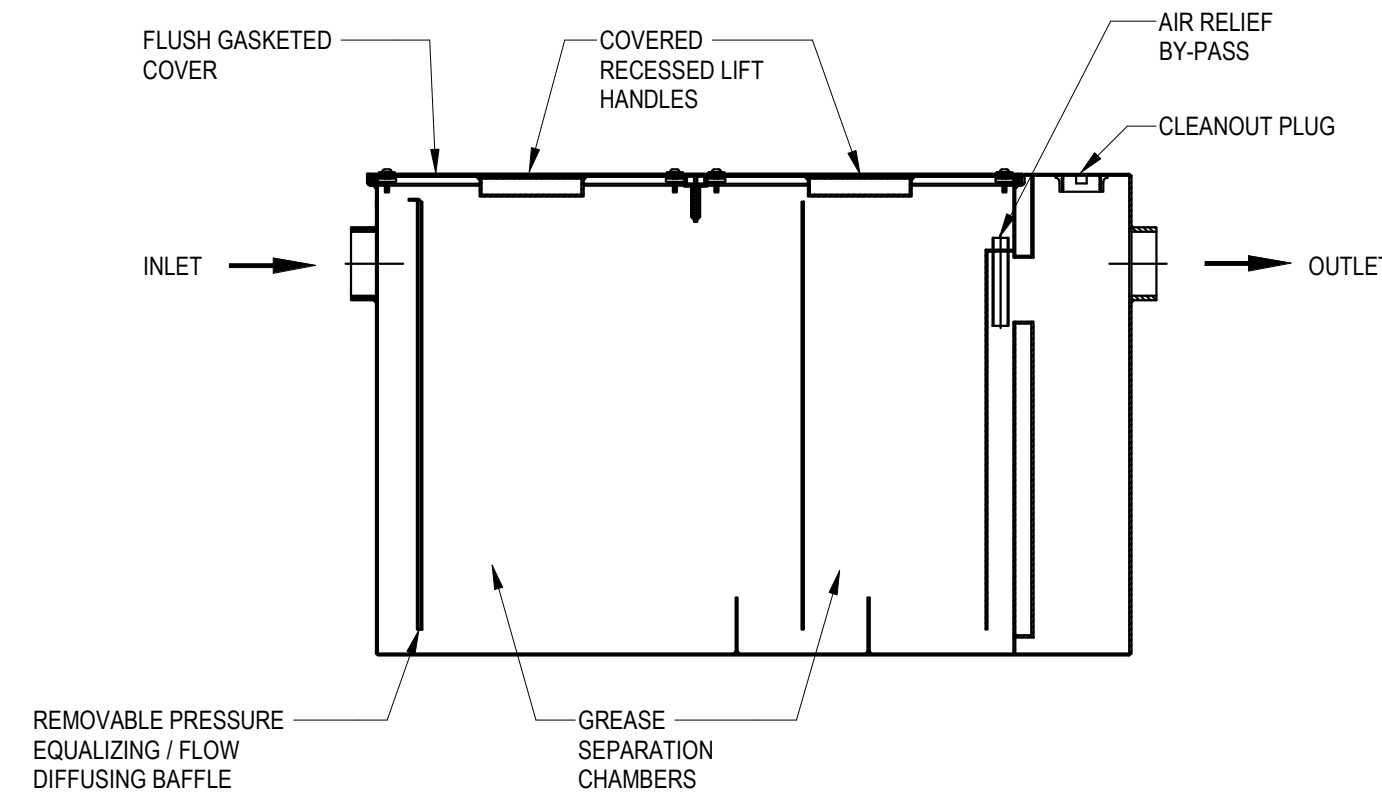
ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LOW PROFILE, PDI RATE AT 75 GPM AND 150 LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, 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.



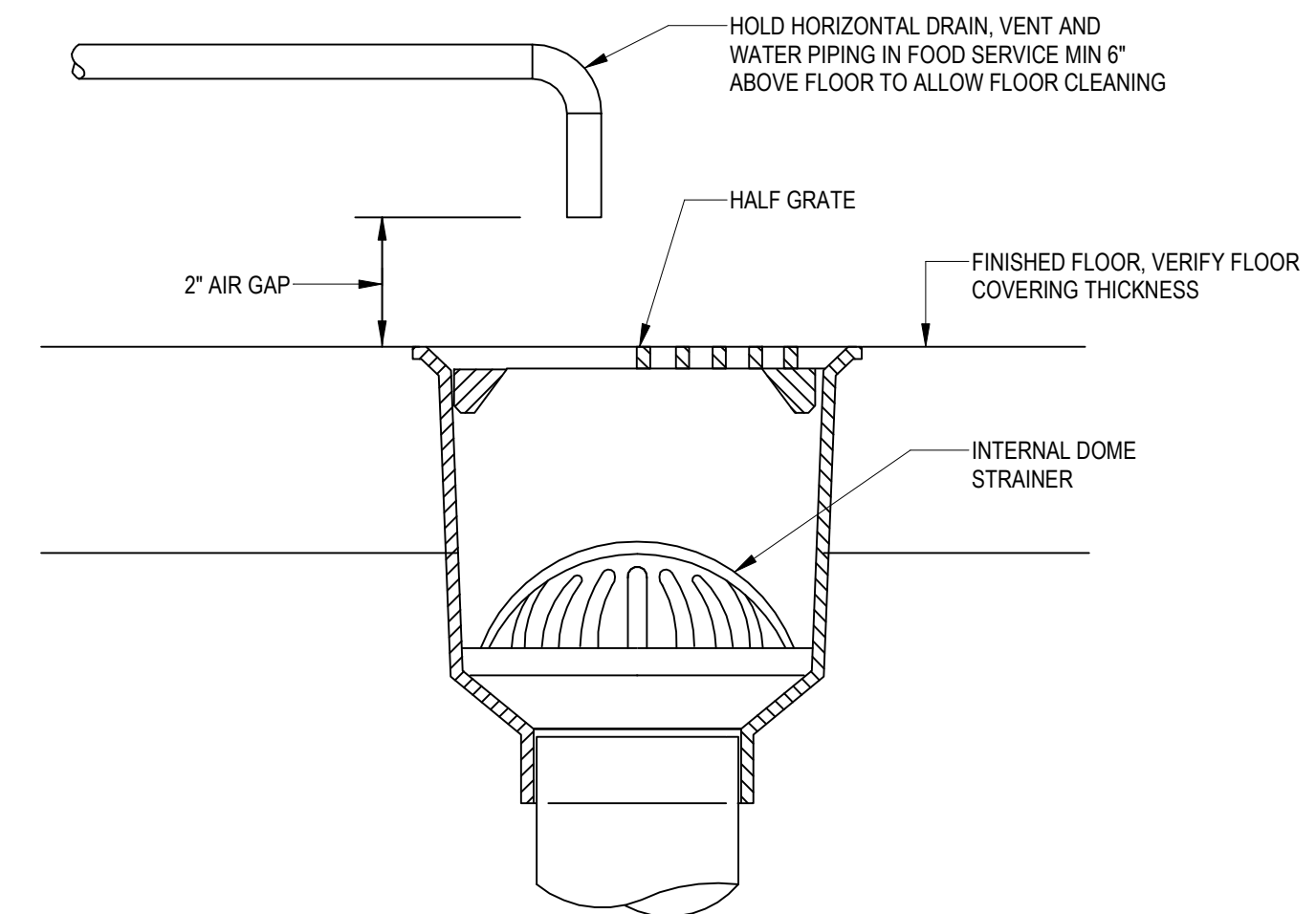
1 GAS WATER HEATER DETAIL (W/RECIRCULATED LOOP)
NOT TO SCALE



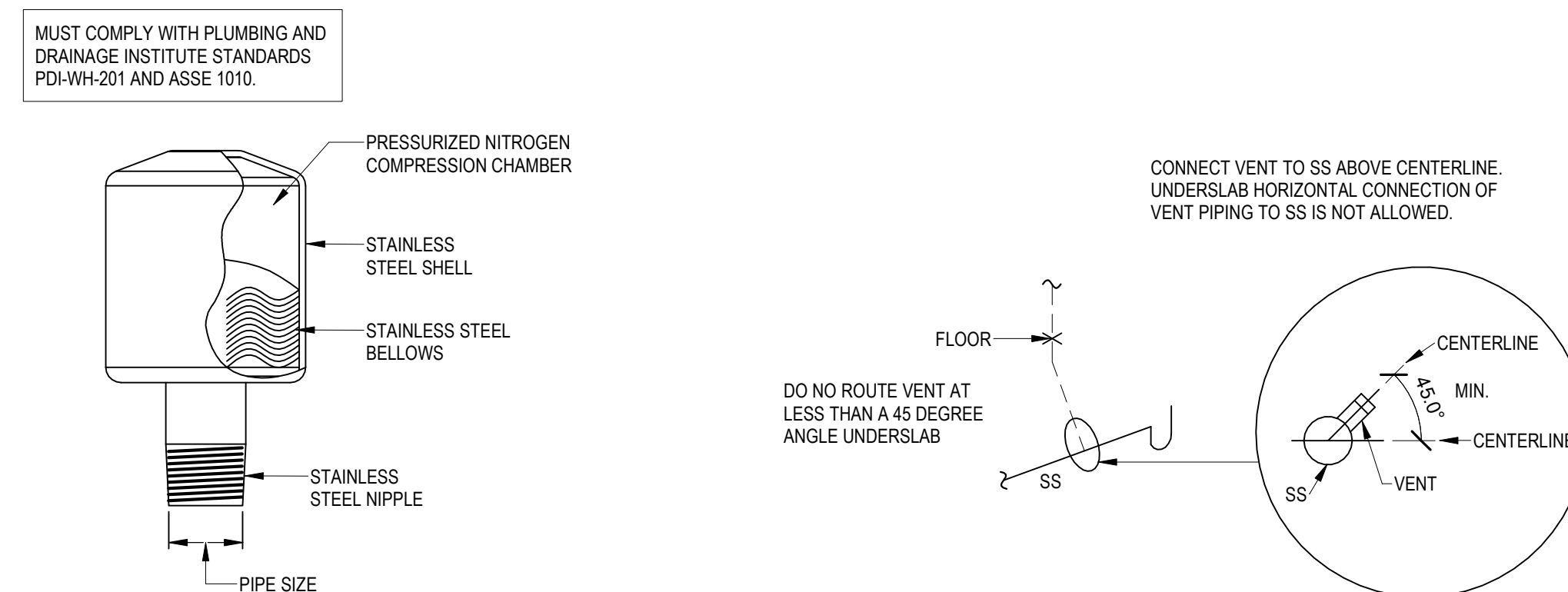
2 IN-LINE CIRCULATING PUMP DETAIL
NOT TO SCALE



3 GREASE INTERCEPTOR DETAIL
NOT TO SCALE



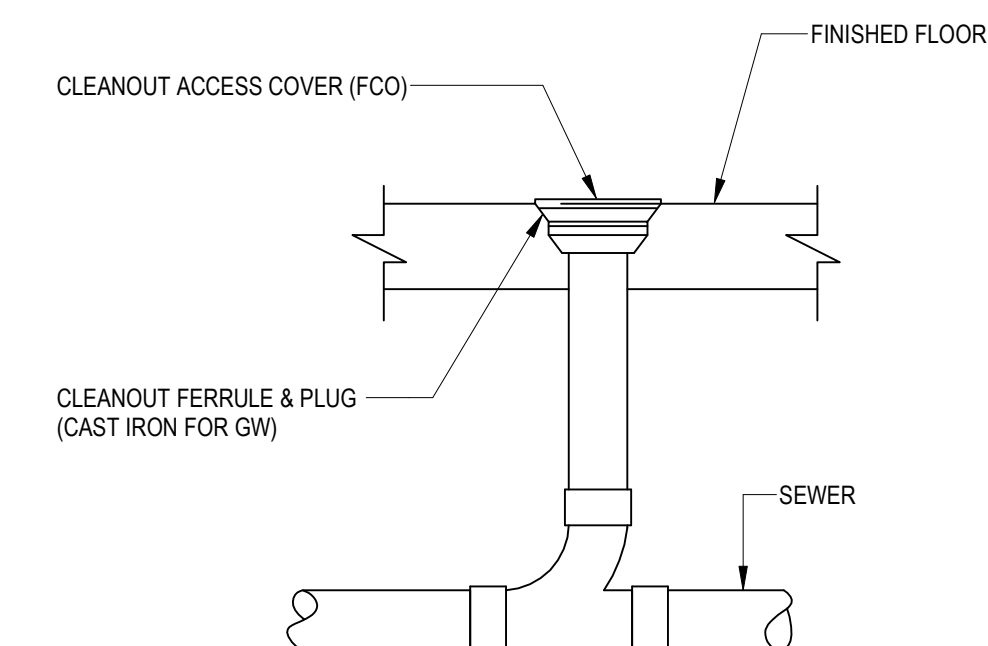
4 FLOOR SINK
NOT TO SCALE



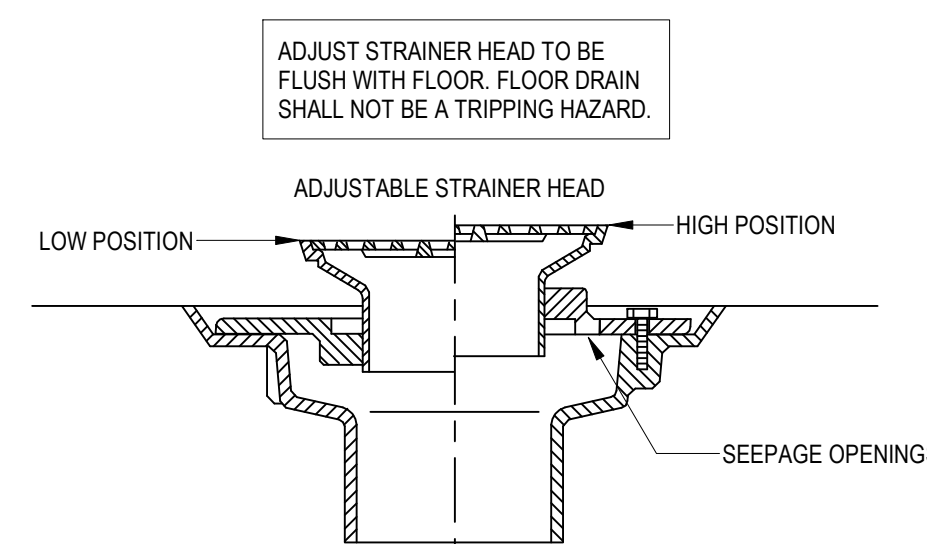
5 HAMMER ARRESTOR DETAIL
NOT TO SCALE



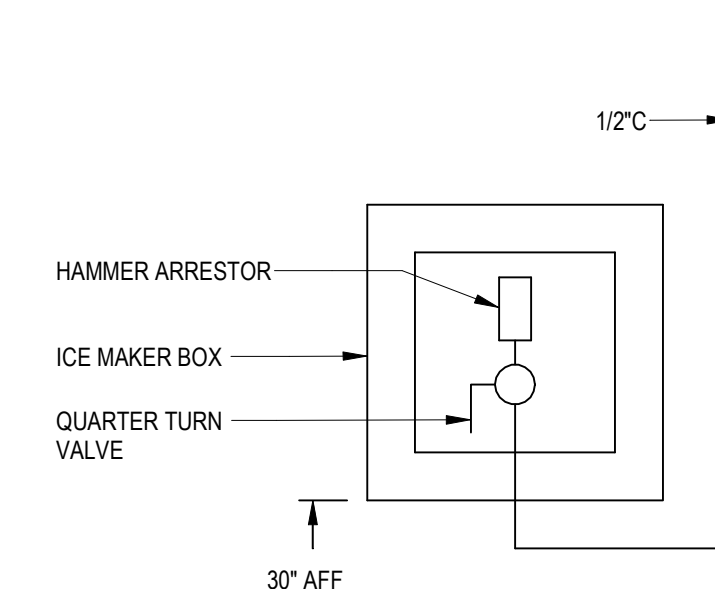
6 VENT INSTALLATION DETAIL
NOT TO SCALE



7 FLOOR CLEANOUT DETAIL
NOT TO SCALE



8 FLOOR DRAIN DETAIL
NOT TO SCALE



9 ICE MAKER BOX DETAIL
NOT TO SCALE



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PLUMBING SPECS & DETAILS
LMW

PO.1

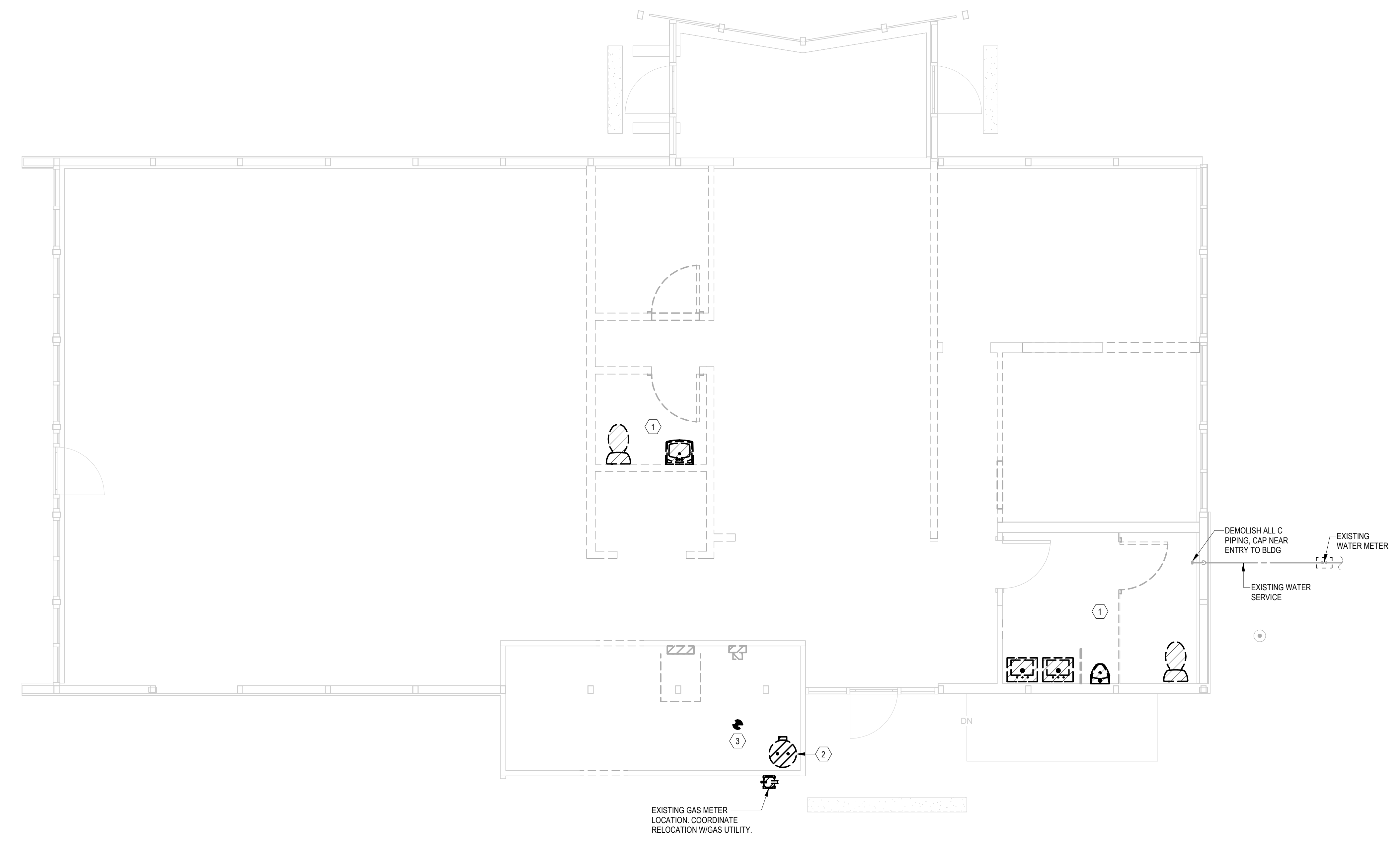


PLUMBING SHEET NOTES

- 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 ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- J 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.
- K 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.

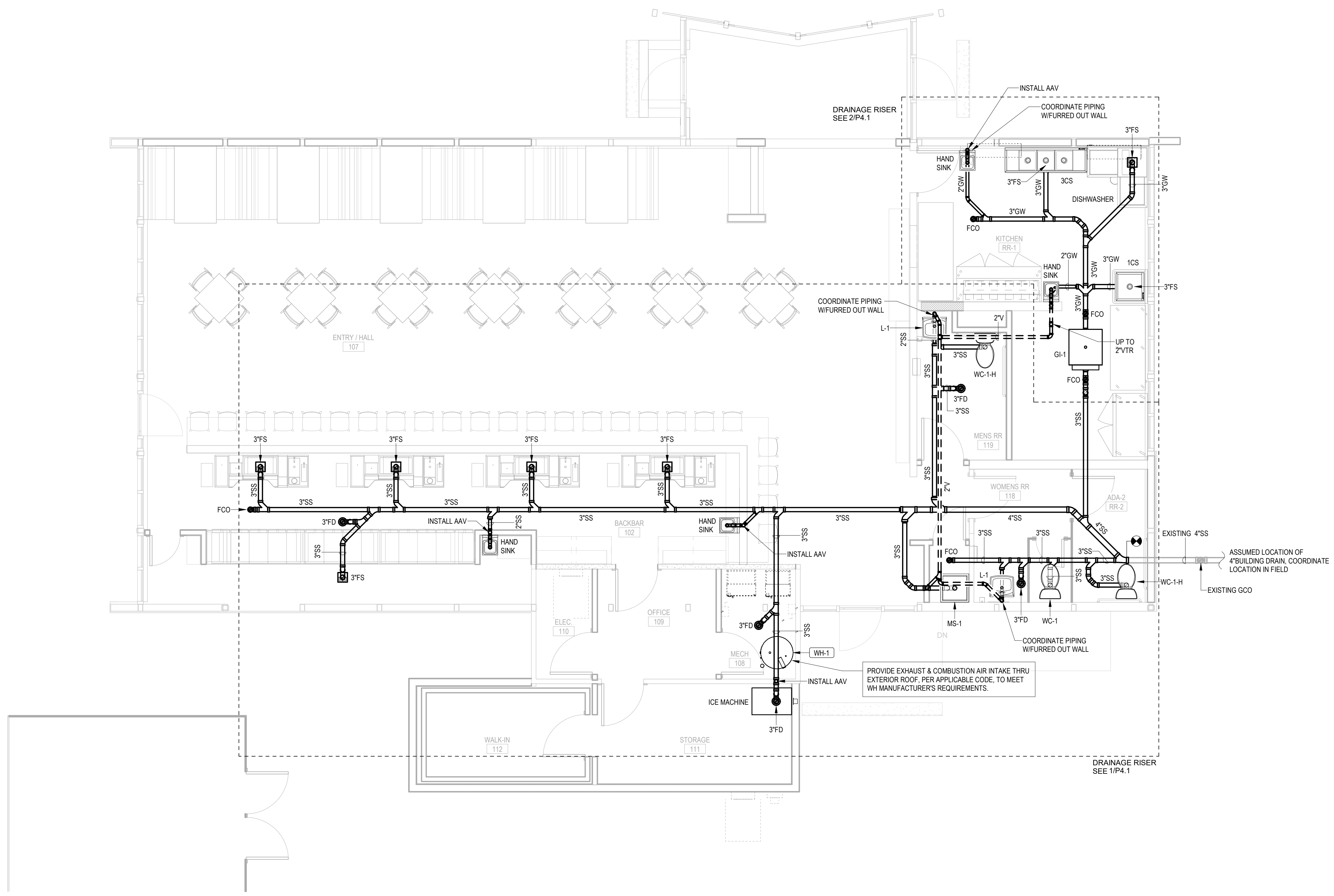
KEYNOTES

- 1 DEMOLISH ALL C PIPING IN RESTROOM. REMOVE WASTE, VENT & WATER PIPING BACK TO MAIN LINES.
- 2 DEMOLISH WATER HEATER. REMOVE C & GAS LINES BACK TO MAIN.
- 3 DEMOLISH FD. REMOVE SS PIPING BACK TO GAS BUILDING SS LINE. REPAIR FLOOR AS NECESSARY.



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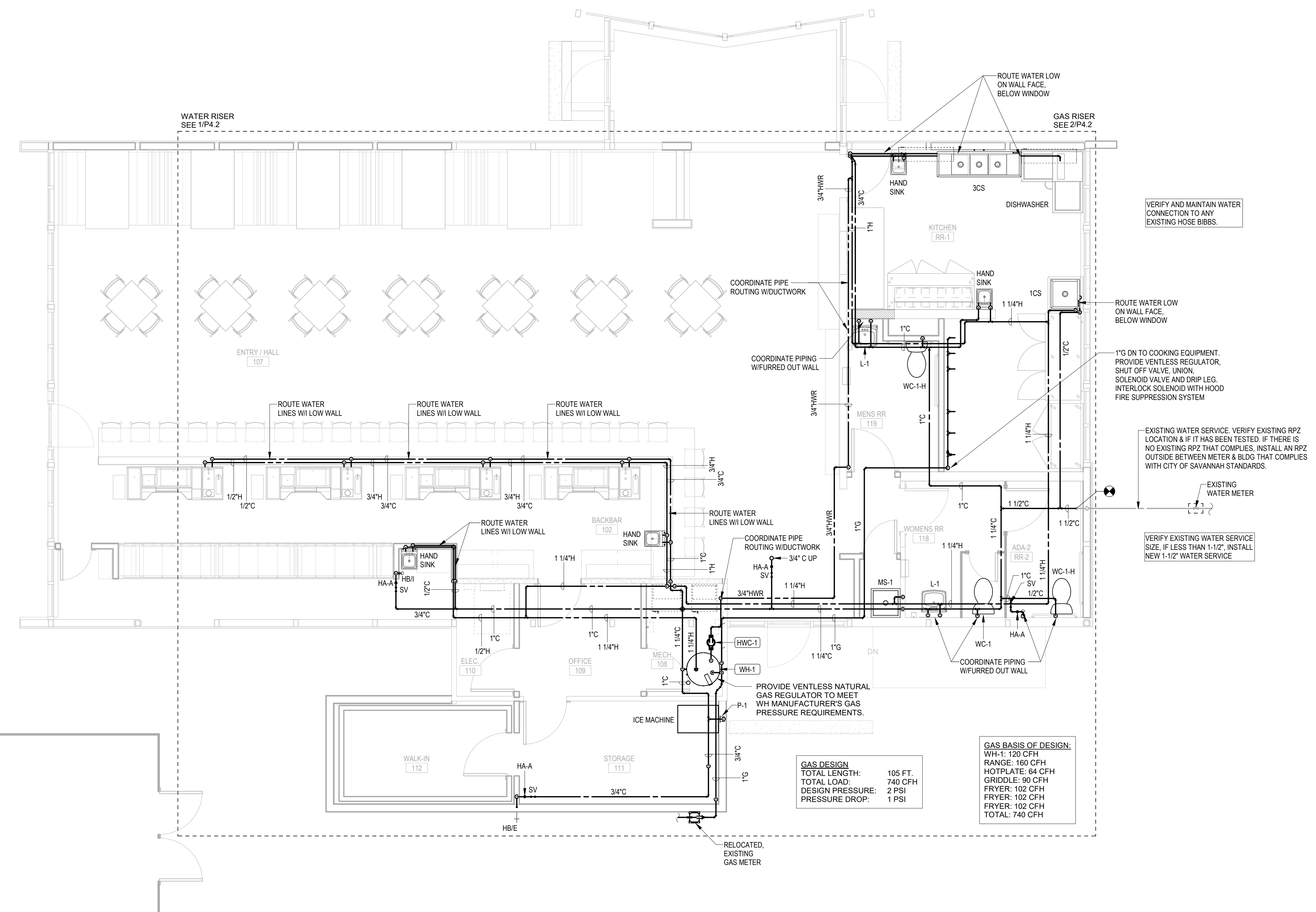
1 WASTE & VENT PLAN
P1.1 1/4" = 1'-0"

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WASTE & VENT PLAN
LMW

PLUMBING SHEET NOTES

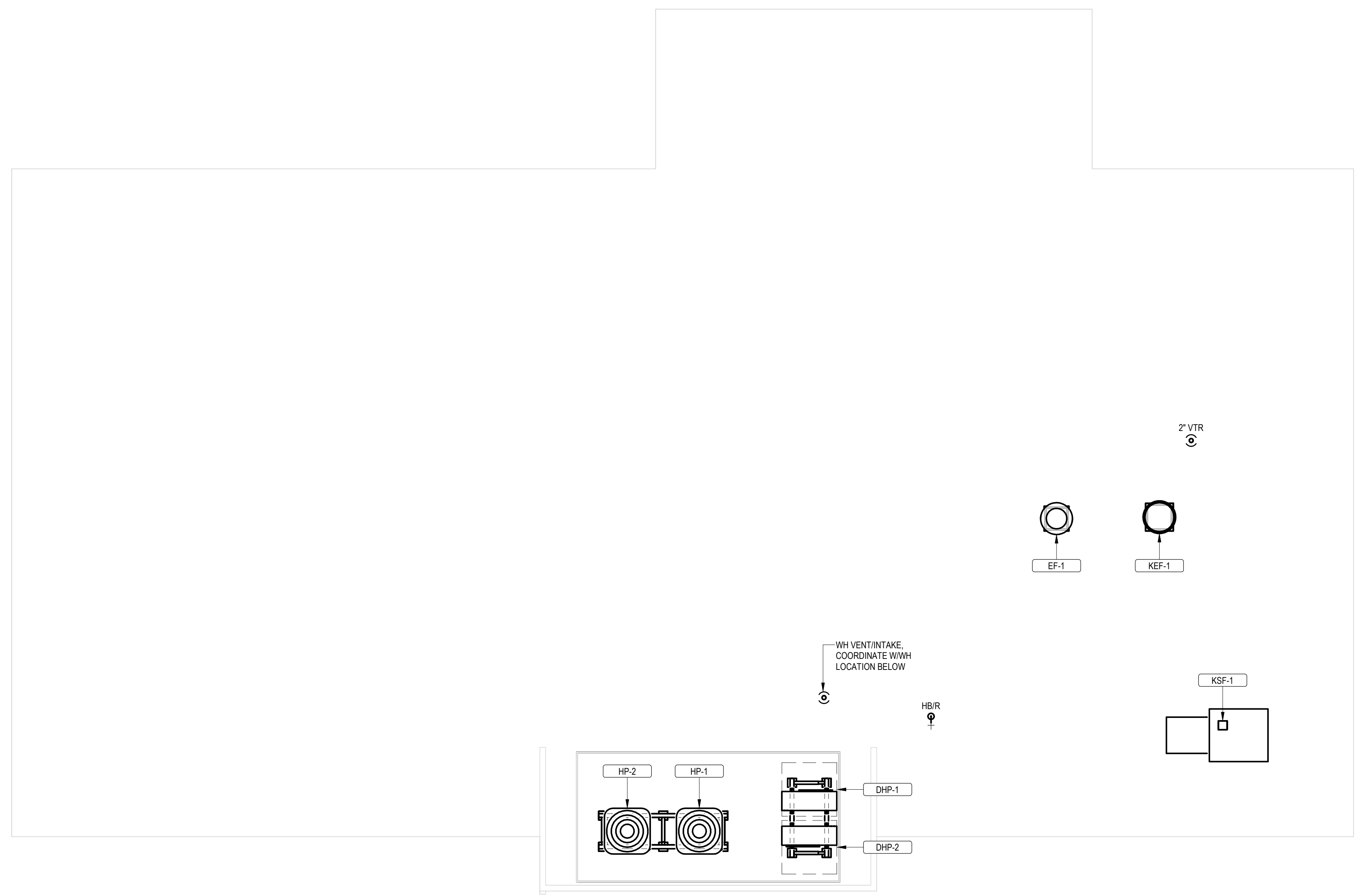
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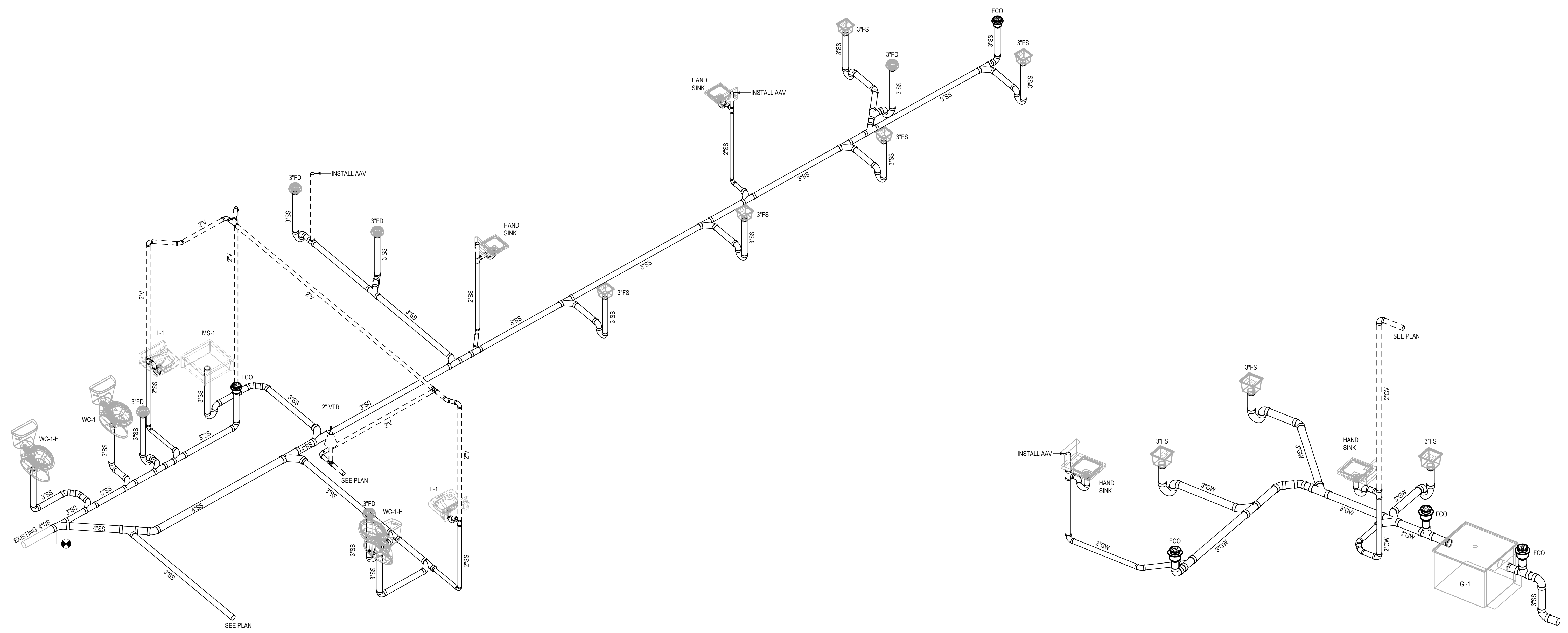


1 HOT & COLD WATER PLAN
 P2.1 1/4" = 1'-0"

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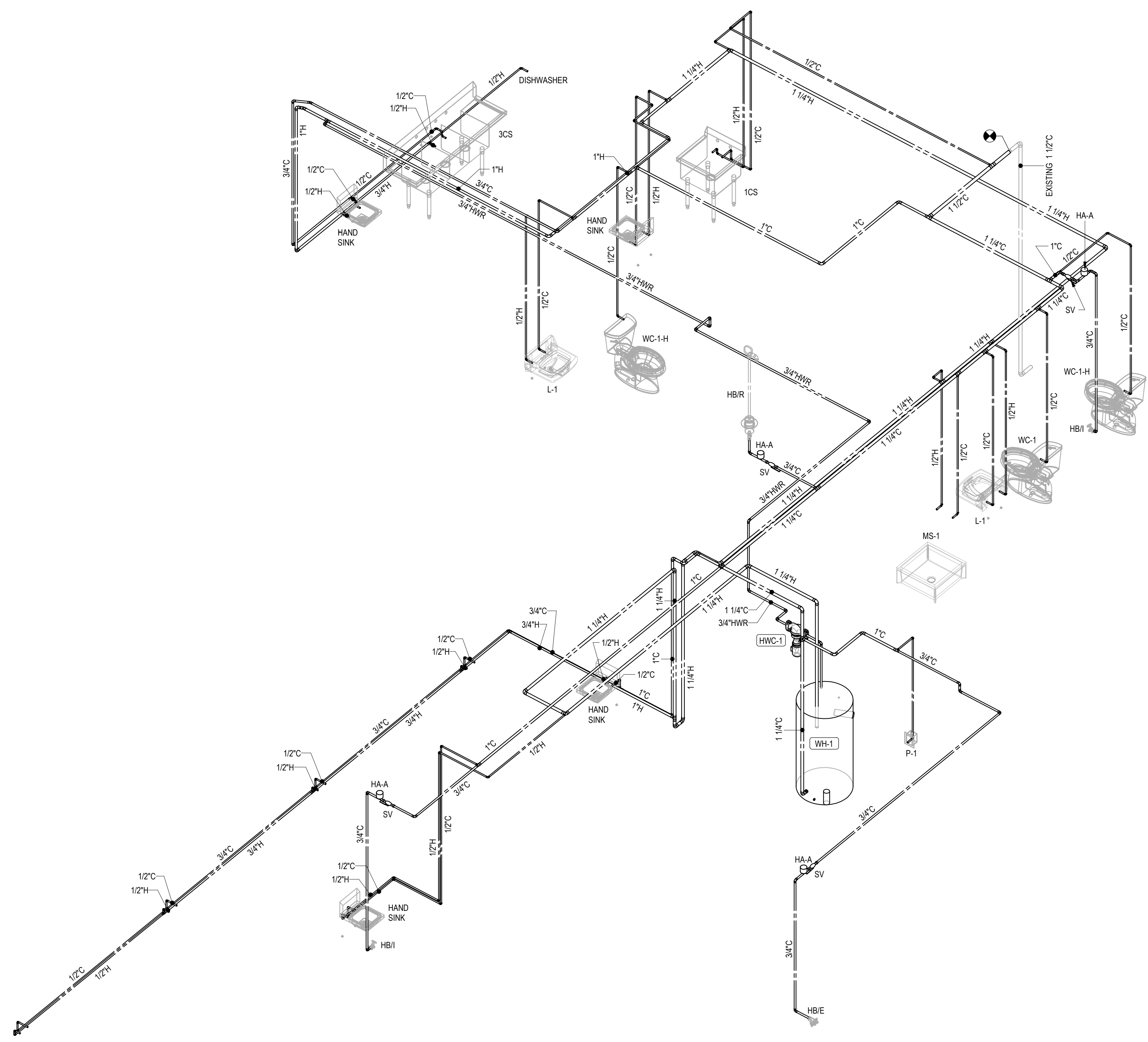
1
P4.1
DRAINAGE & VENT RISER DIAGRAM #1

2
P4.1
DRAINAGE & VENT RISER DIAGRAM #2

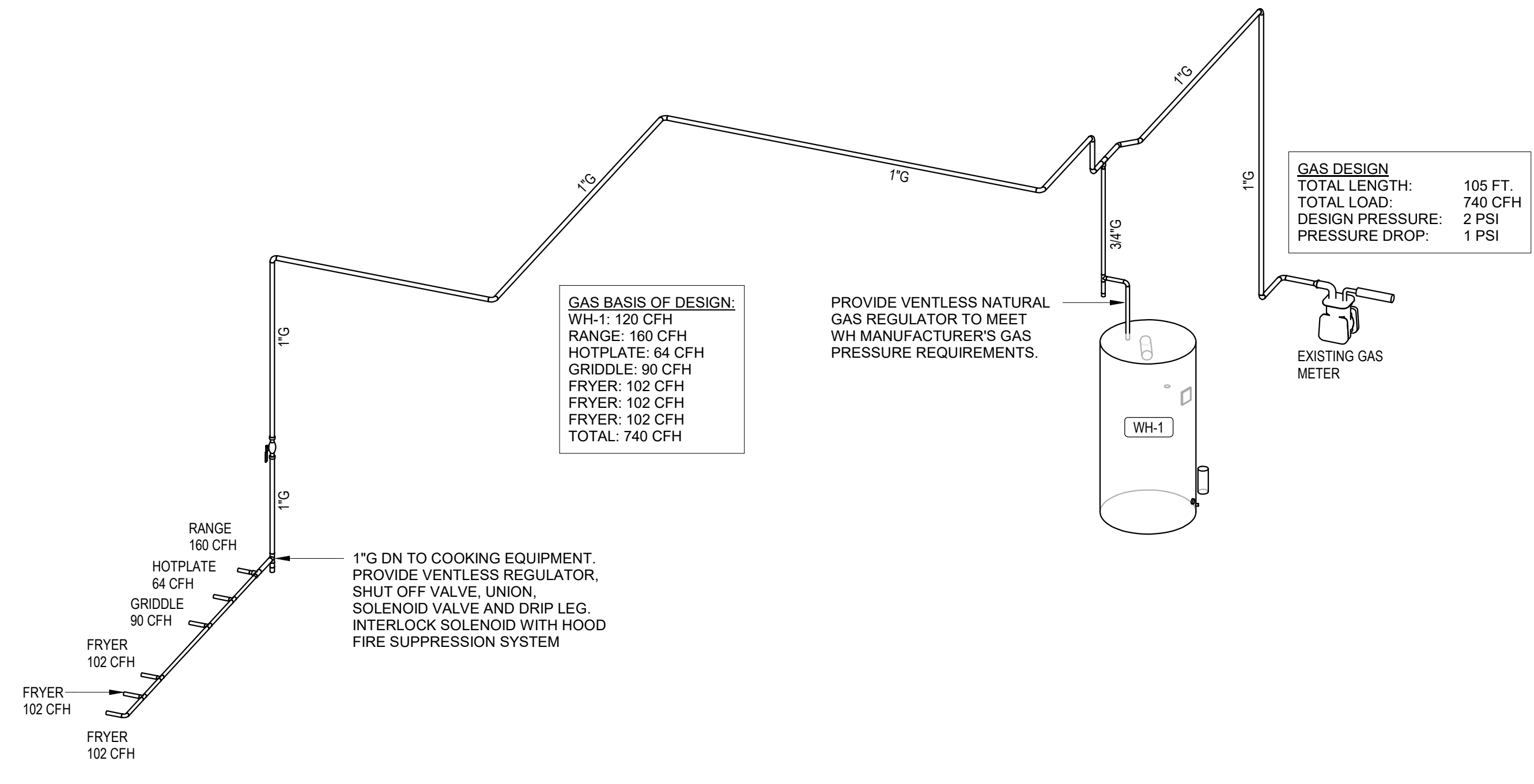
CIRQUE DAIQUIRI BAR & GRILL

2302 BULL STREET SAVANNAH, GA 31401

PLUMBING RISER
DIAGRAMS
LMW



1
P4.2
HOT & COLD WATER RISER DIAGRAM



2
P4.2
GAS RISER DIAGRAM

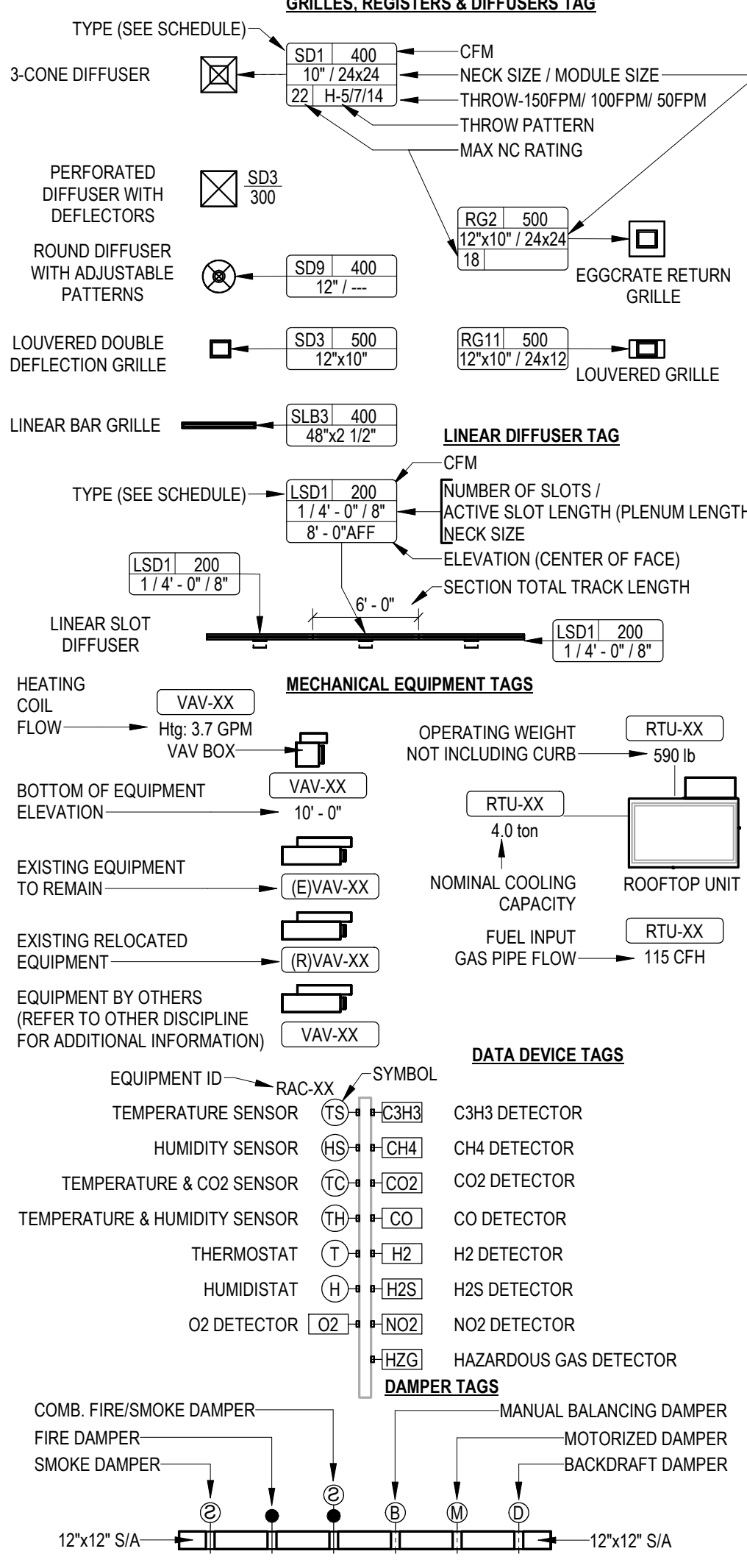
CIRQUE DAIQUIRI BAR & GRILL
 2302 BULL STREET SAVANNAH, GA 31401

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 NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
	PIPE SIZE TAG (DIAMETER)
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

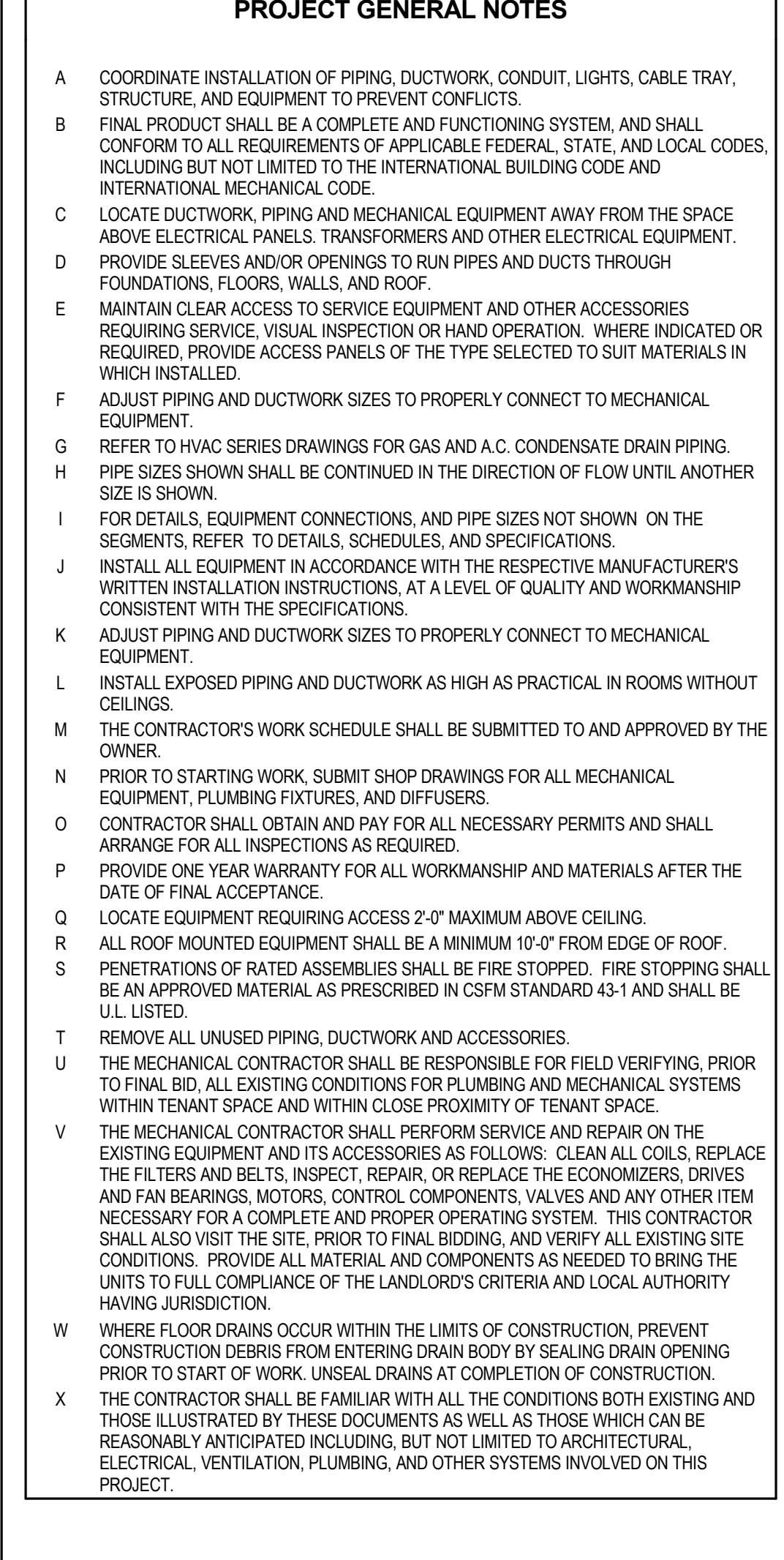
ABBREVIATIONS	
Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFFE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR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

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

HVAC SYMBOLS	
	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	DOUBLE WALL SPIRAL DUCT
	LINED DUCT
	EXTERIOR DUCT
	FABRIC DUCT
	SUPPLY AIR
	CONDITIONED OUTSIDE AIR
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	GREASE EXHAUST AIR
	COMBUSTION AIR



PIPING SYMBOLS	
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAINAGE
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	GEO THERMAL WATER RETURN
	GEO THERMAL WATER SUPPLY
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	NATURAL GAS
	PROPANE GAS
	REFRIGERANT-LIQUID
	REFRIGERANT-SUCTION
	REFRIGERANT-HOT GAS
	STEAM
	CONDENSATE RETURN



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 SCH40 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 A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED
G	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
H	INSTALL, SUPPORT, AND BRACE ALL HVAC EQUIPMENT, PIPING, DUCTWORK, AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2006 AND LOCAL SEISMIC AND WIND REQUIREMENTS
I	PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED
J	SUPPLY REGISTERS SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING DEVICES. COORDINATE FINAL LOCATIONS OF CEILING-MOUNTED DEVICES WITH ARCHITECT
K	PROVIDE DUCT FIRE DAMPERS AT ALL TRANSFER DUCT, OA DUCT, AND SUPPLY DUCT PENETRATIONS THRU A RATED CEILING ASSEMBLY
L	THE CONTRACTOR SHALL MATCH THE ELEVATION OF ALL WALL CAPS, DRYER-VENTS, AND RANGE HOOD VENTS

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 SERVICE 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. 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
S	REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES
T	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

HVAC SHEET INDEX	
M0.0	HVAC TITLE SHEET
M0.1	HVAC SCHEDULES & SPECIFICATIONS
M1.1	HVAC PLAN
M1.2	ROOF HVAC PLAN
M2.1	MECHANICAL SECTIONS
M3.1	HVAC DETAILS
M3.2	HVAC DETAILS

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, HAILOR, 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, METALAIR 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.

HEAT PUMPS:

SPLIT SYSTEM HEAT PUMPS SHALL BE BY CARRIER, TRANE OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, AND SINGLE POINT POWER SUPPLY. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

HP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS, BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL OUTDOOR HP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

FLOOR MOUNTED INDOOR UNITS SHALL BE MOUNTED ON WELDED EQUIPMENT STANDS WITH NEOPRENE PAD ISOLATION. SUSPEND A 3" DEEP WATERTIGHT EMERGENCY DRAIN PAN BENEATH EACH UNIT. DRAIN PANS SHALL BE SLIGHTLY SLOPED TO DRAIN WITH 1" EMERGENCY DRAIN LINES. PRIMARY DRAINS SHALL BE FULL SIZE WITH A HVAC DRAIN TRAPS. SECONDARY HVAC DRAIN OPENINGS SHALL BE PLUGGED. ALL AIR HANDLERS SHALL BE PROVIDED WITH RETURN FILTER RACK FOR 2" PLEATED FILTER WITH FILTER DRAWER OR HINGED FILTER DOOR.

DUCTLESS HEAT PUMPS SHALL BE BY MITSUBISHI, CARRIER, TRANE, LG, OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE INVERTER-DRIVEN COMPRESSOR, PROGRAMMABLE THERMOSTAT, SINGLE POINT POWER SUPPLY AND WASHABLE FILTERS FOR INDOOR UNITS. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEM.

DHP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS, BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL DHP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

KITCHEN VENTILATION SYSTEM:

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 STANDARD WALL CANOPY TYPE WITH FULL VERTICAL, 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.

MAKEUP AIR PLENUM: PROVIDE A MATCHING CEILING MOUNTED STAINLESS STEEL MAKEUP AIR PLENUM WITH FULL LENGTH, FULL PERIMETER PERFORATED FACE DISCHARGE PANELS, INTERNAL INSULATION AND SUPPLY AIR DUCT COLLARS FOR UP TO 90% MAKEUP AIR. SEE PLANS FOR DETAILS. THE OVERALL WIDTH OF THE PLENUM SHALL BE MINIMUM 18 INCHES ALL AROUND.

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 PROTECT CABINET WALL MOUNTED IN THE KITCHEN. PROVIDE A REMOTE MANUAL FULL 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 1/4" 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 WELDED AND LISTED AT 1/4" OR ZERO CLEARANCE, ACCORDING TO CLASSIFICATIONS. GREASE DUCT SHALL BE BY AMPO, 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 TYPE WITH DIRECT-DRIVEN FAN WITH BACKWARD-INCLINED BLADES, CONTAINING A BUILT-IN GREASE TROUGH AND HAVING A REMOVABLE COVER. NO BIRDSCREENS OR BACKDRAFT DAMPERS WILL BE PERMITTED PER NFPA 96. PROVIDE DISCONNECT SWITCH. FURNISH SUPPORT CURBS 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 148 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, VERTICAL 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.

SPLIT SYSTEM AIR SOURCE HEAT PUMP													
UNIT ID	OUTSIDE AIRFLOW (CFM)	FAN			EVAPORATOR COOLING COIL @ 95°F O.A.		ELECTRIC HEATER (KW)		VOLT	PH	SEER2	SEACOAST PROTECTION	BASIS OF DESIGN
		DESIGN AIRFLOW (CFM)	ESP (IN. WG)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR DB (°F)	WB (°F)						
AH-1 HP-1	210	1400	0.50	42	30	80	67	6.0	208	1	14.3	Yes	CARRIER F-J4D / 25SCA
AH-2 HP-2	300	2000	0.50	60	42	80	67	7.5	208	1	14.3	Yes	CARRIER F-J4D / 25SCA

- REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
- PROVIDE AIR TREATMENT DEVICES FOR EACH AH UNIT.
- PROVIDE DUCT SMOKE DETECTORS. INSTALL SMOKE DETECTORS ON SUPPLY DUCTWORK AT EACH AIR HANDLER.

DUCTLESS HEAT PUMP SCHEDULE											
UNIT ID	TYPE	FAN		EVAPORATOR COOLING COIL @ 95°F O.A.		HEATING CAPACITY (MBH)		VOLT	PH	SEACOAST PROTECTION	BASIS OF DESIGN
		DESIGN AIRFLOW (CFM)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR DB (°F)	WB (°F)					
DAH-1 DHP-1	WALL-MOUNTED	775	30	21	80	67	32	208	1	YES	MITSUBISHI PKA/PUZ
DAH-2 DHP-2	WALL-MOUNTED	775	30	21	80	67	32	208	1	YES	MITSUBISHI PKA/PUZ

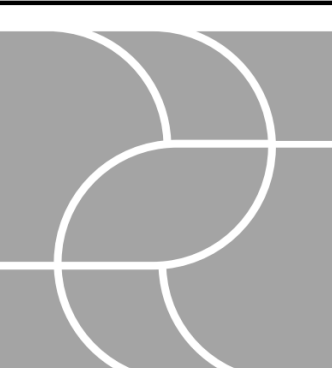
- REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
- PROVIDE AIR TREATMENT DEVICE(S) FOR EACH AH UNIT.

FAN SCHEDULE											
UNIT ID	UNIT TYPE	DESIGN AIRFLOW (CFM)	ESP (IN. WG)	DRIVE TYPE	RPM	MOTOR POWER (HP)	INLET SONES	VOLT	PH	BASIS OF DESIGN	NOTES
KEF-1	GREASE RATED UPBLAST	2330	1.50	DIRECT	1205	1.5	16	208	3	ECON-AIR	DCV
KSF-1	FILTERED SUPPLY FAN	2097	0.50	DIRECT	1927	1.5	26	208	3	ECON-AIR	DCV

- REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
- EF-1 SHALL INTERLOCK WITH ASSOCIATED TIMECLOCKS TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
- KEF-1/KSF-1 SHALL INTERLOCK WITH DCV AND KITCHEN HOOD OPERATION.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE								
ID	DESCRIPTION	FACE SIZE	NECK		INSTALLATION TYPE	MATERIAL	BASIS OF DESIGN	
			SIZE	WIDTH				HEIGHT
RG1	EGGCRATE RETURN GRILLE	6"		6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 50F	
RG2	LOUVERED FILTER GRILLE			22"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FLF	
SD1	PLAQUE FACE DIFFUSER	12x12	4"		SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA	
SD1	PLAQUE FACE DIFFUSER	12x12	5"		SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA	
SD1	PLAQUE FACE DIFFUSER	12x12	6"		SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA	
SD1	PLAQUE FACE DIFFUSER	20x20	8"		SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA	
SG1	LOUVERED DOUBLE DEFLECTION GRILLE			6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 300FS	

- PROVIDE OPPOSED BLADE DAMPERS FOR CEILING DIFFUSERS LOCATED ABOVE GYP. BOARD CEILINGS OR MOUNTED ON WALLS.



ROSE
ARCHITECTS

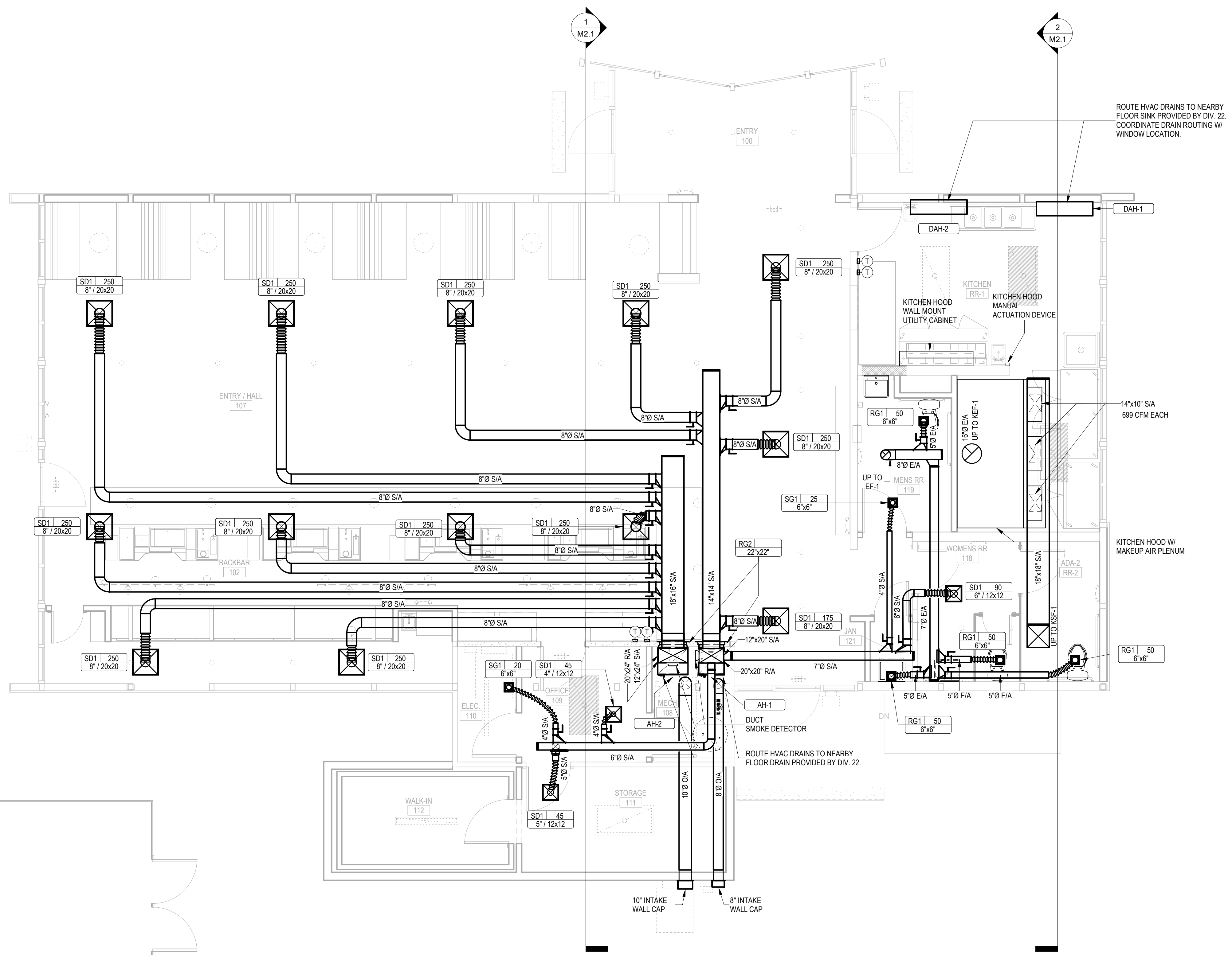


CIRQUE DAIQUIRI BAR & GRILL

2302 BULL STREET SAVANNAH, GA 31401

HVAC SCHEDULES &
SPECIFICATIONS
JRG

- 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.
 - H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
 - I 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.
 - J THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SOALED 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.
 - K 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.

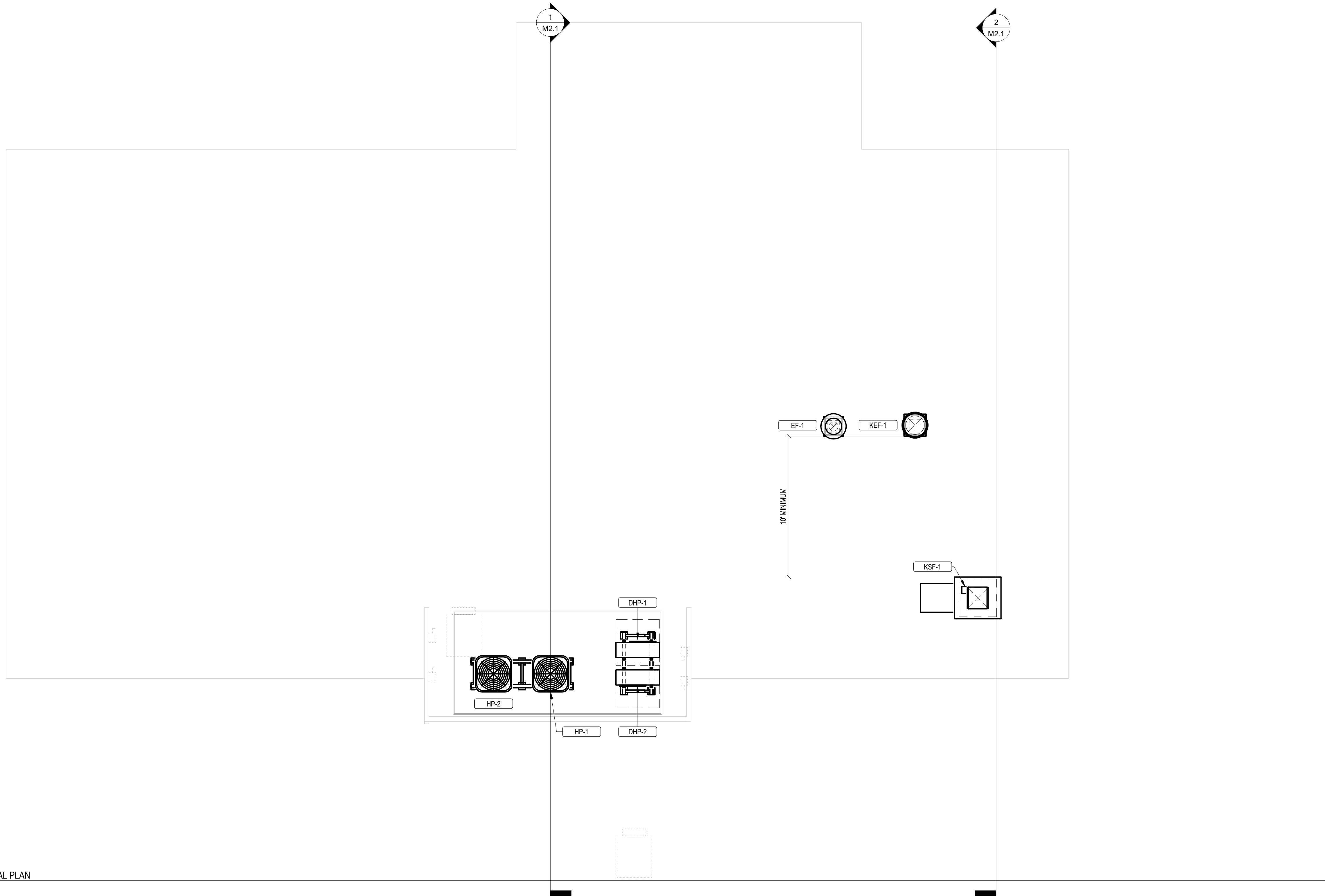


1 HVAC PLAN
M1.1 1/4" = 1'-0"

CIRQUE DAIQUIRI BAR & GRILL
2302 BULL STREET SAVANNAH, GA 31401

HVAC PLAN
JRG

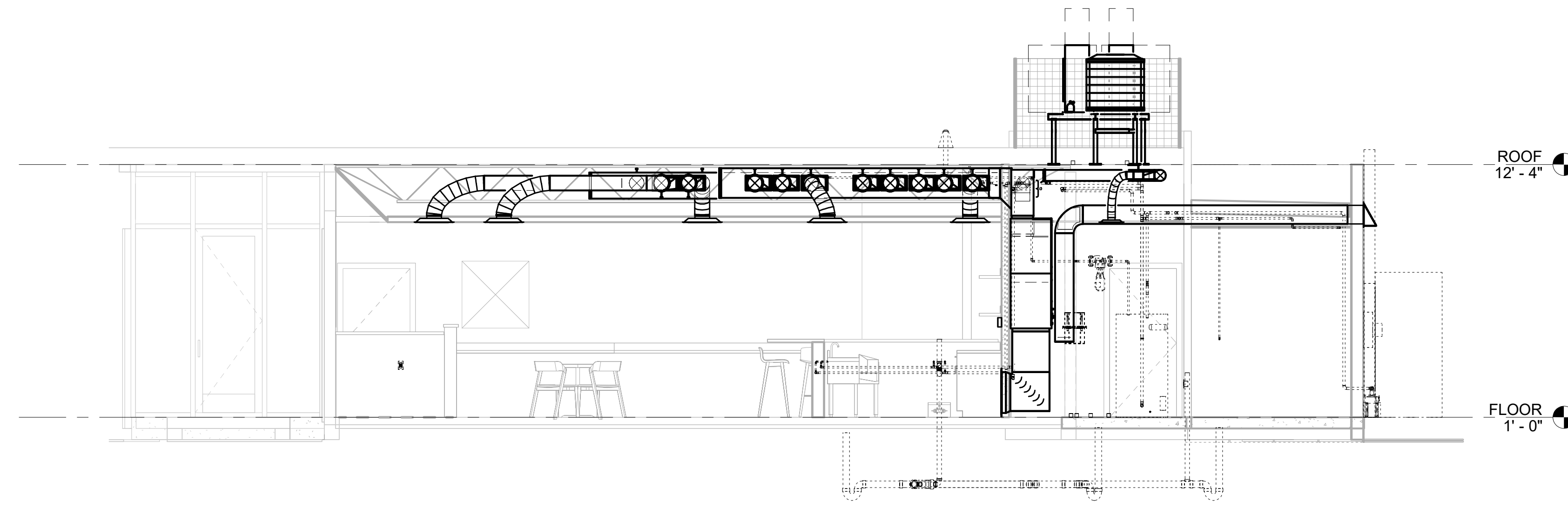
- HVAC SHEET NOTES**
- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
 - B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
 - C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, 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.
 - H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
 - I 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.
 - J 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.
 - K 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.



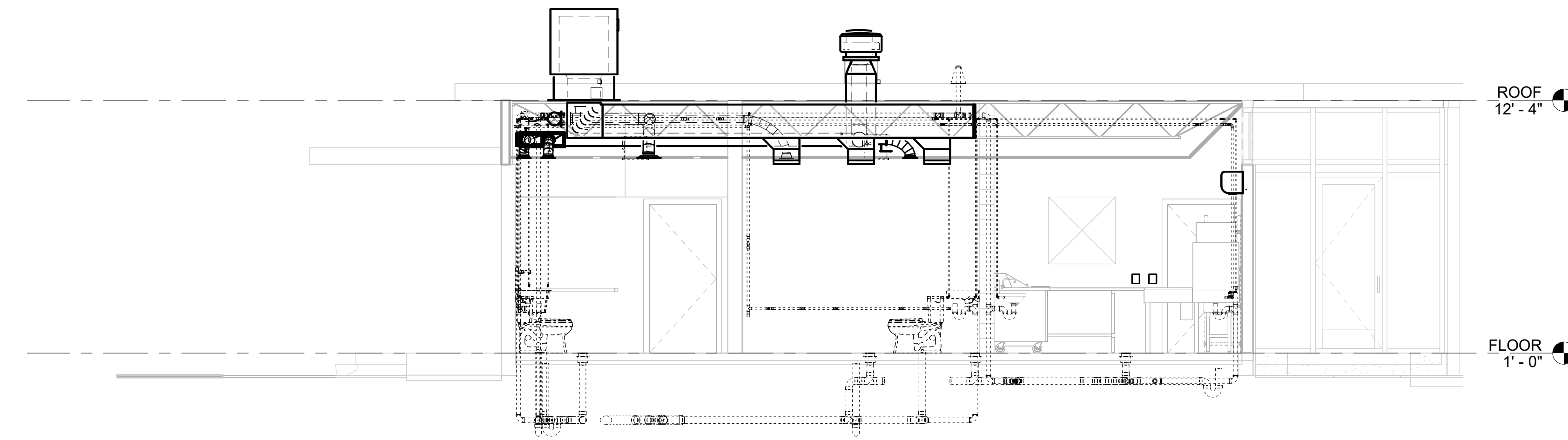
1 ROOF MECHANICAL PLAN
M1.2 1/4" = 1'-0"

CIRQUE DAIQUIRI BAR & GRILL
2302 BULL STREET SAVANNAH, GA 31401

ROOF HVAC PLAN
JRG



1 SECTION #1
M2.1 1/4" = 1'-0"

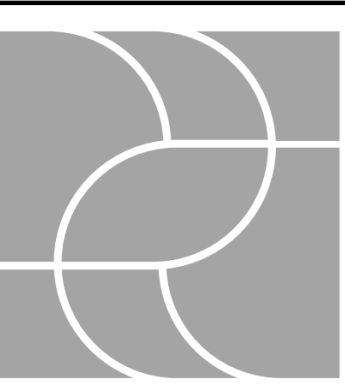


2 SECTION #2
M2.1 1/4" = 1'-0"

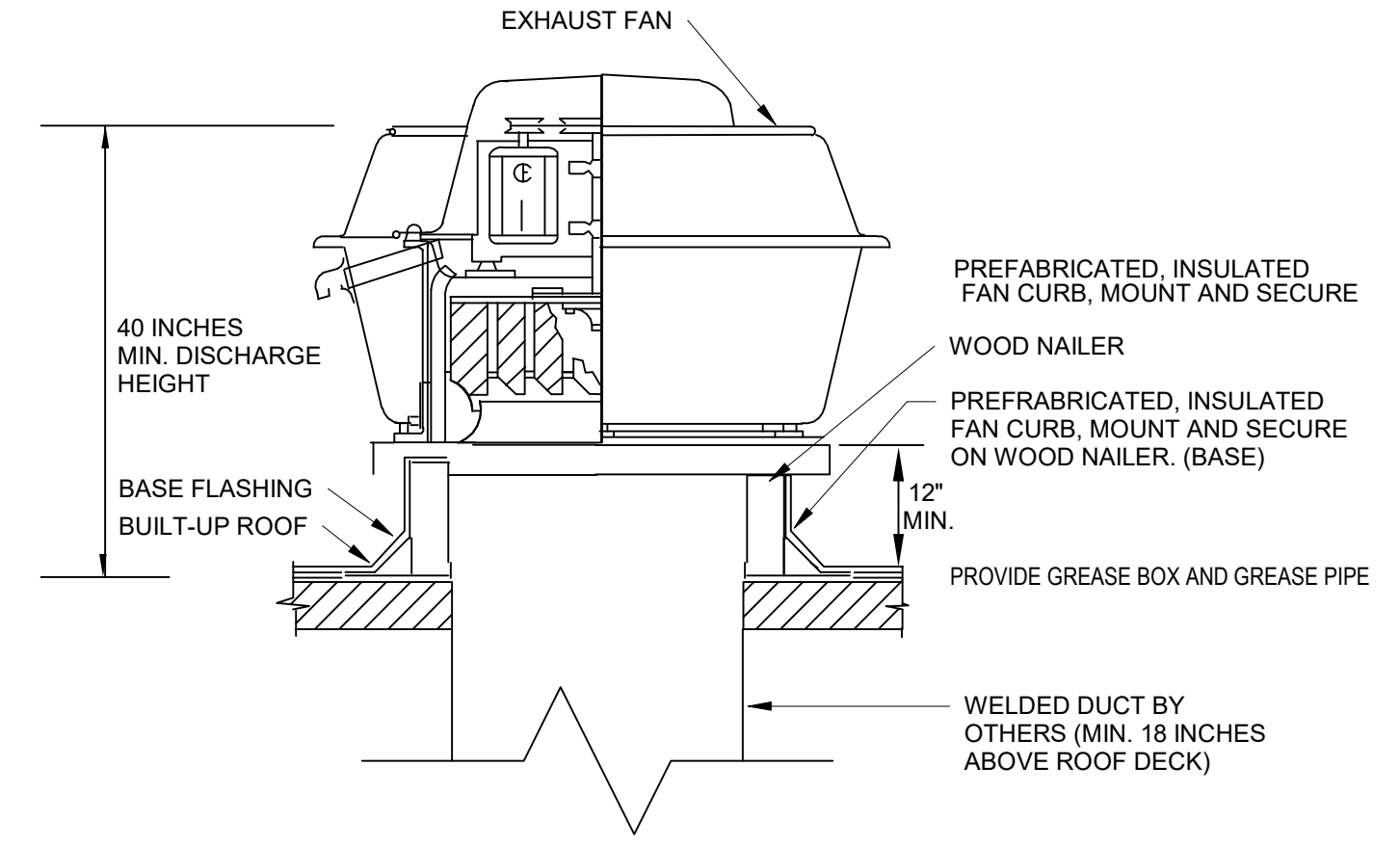
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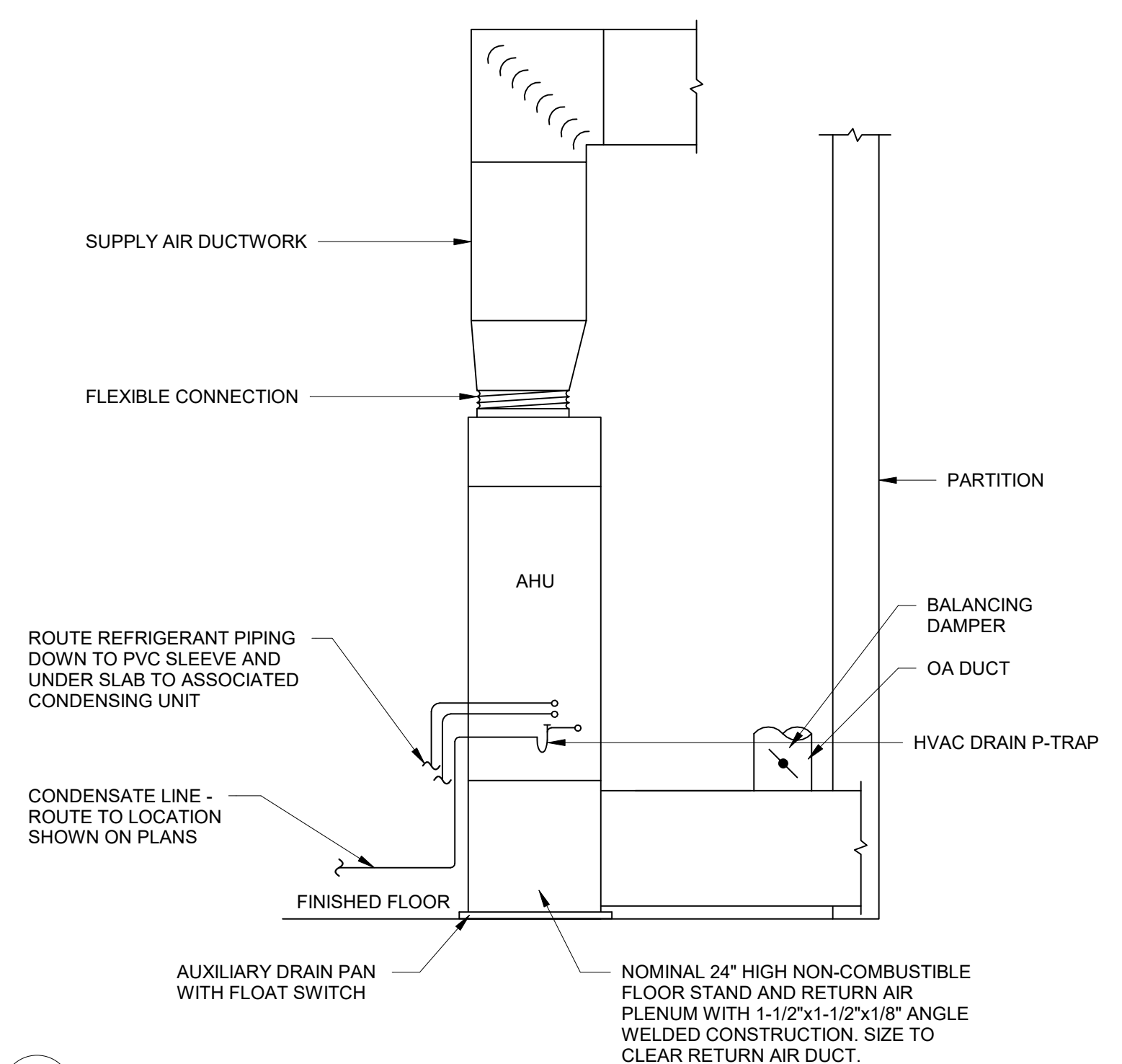
MECHANICAL
SECTIONS
JRG



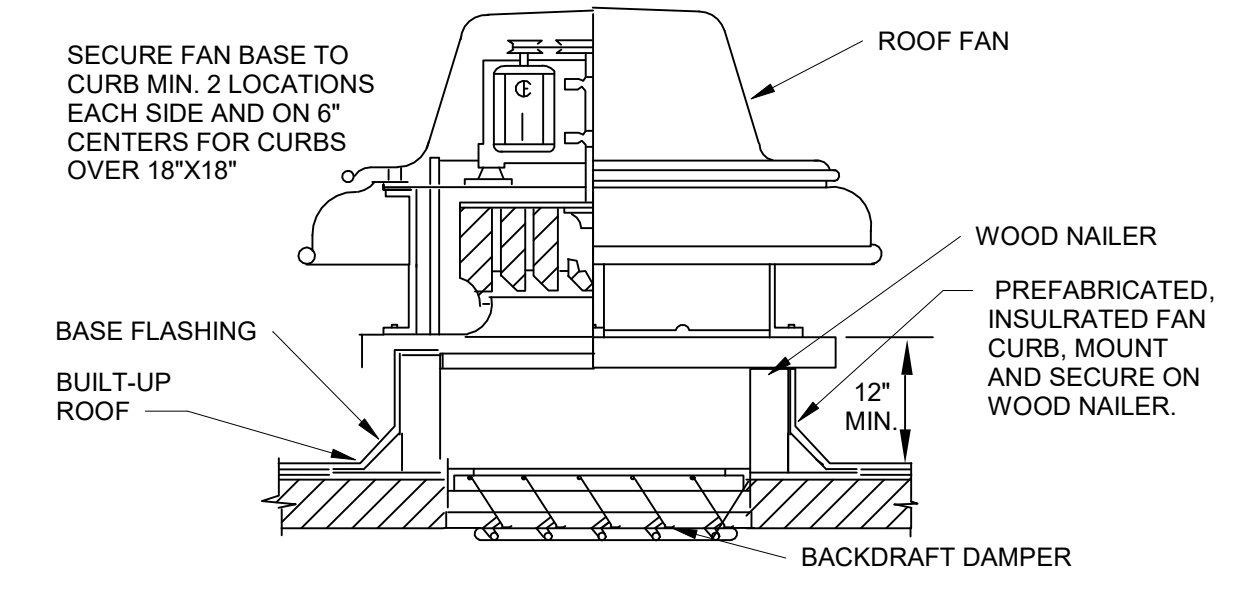
ROSE ARCHITECTS



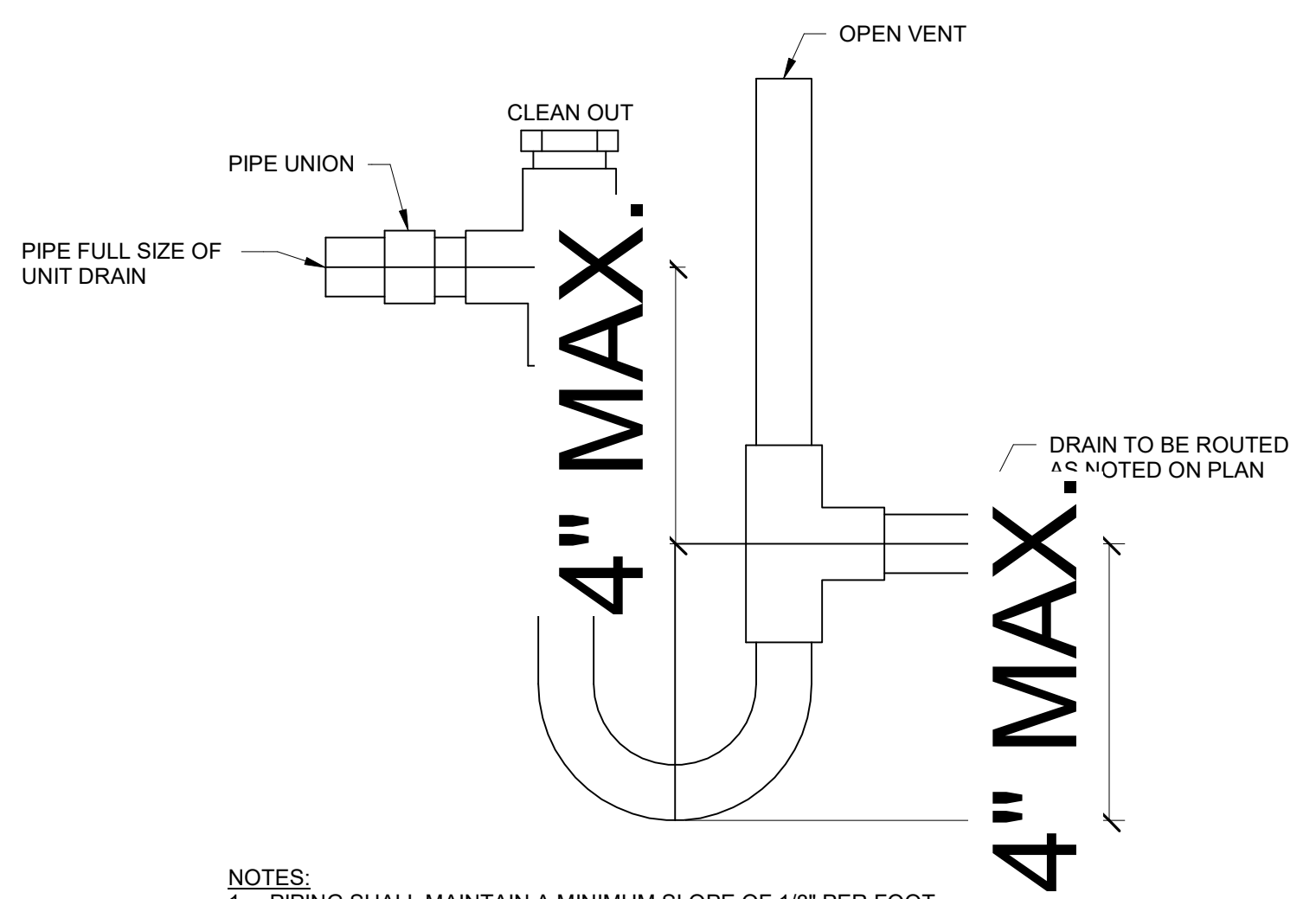
1 ROOF-MOUNTED EXHAUST FAN DETAIL - UPBLAST
M3.1 NOT TO SCALE



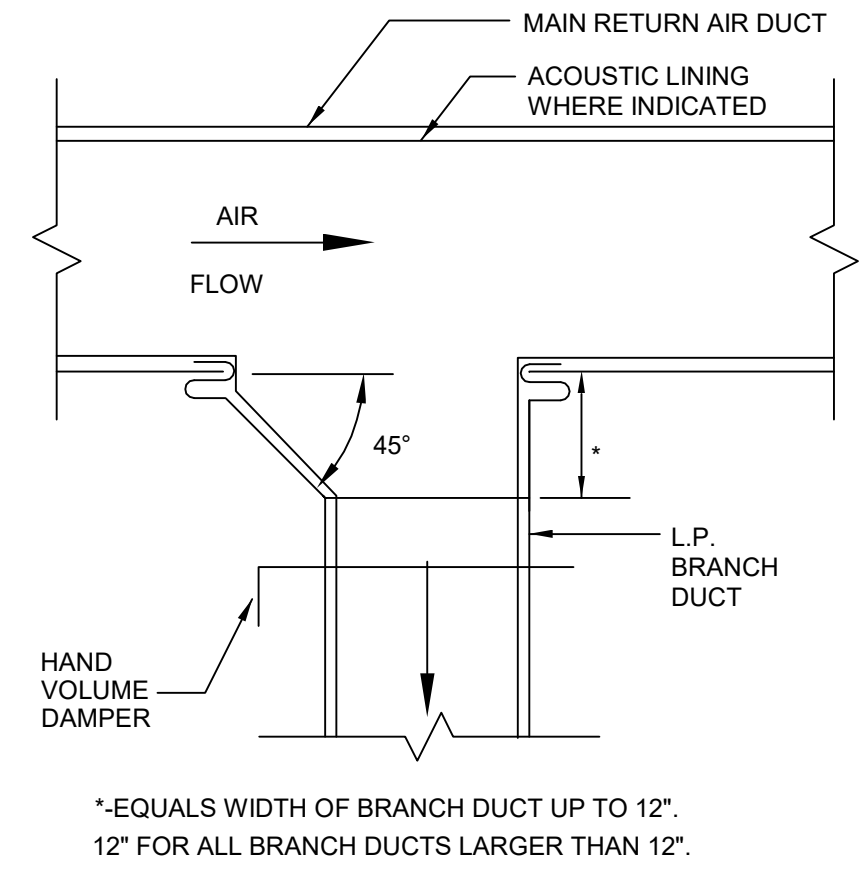
2 VERTICAL AHU DETAIL
M3.1 NOT TO SCALE



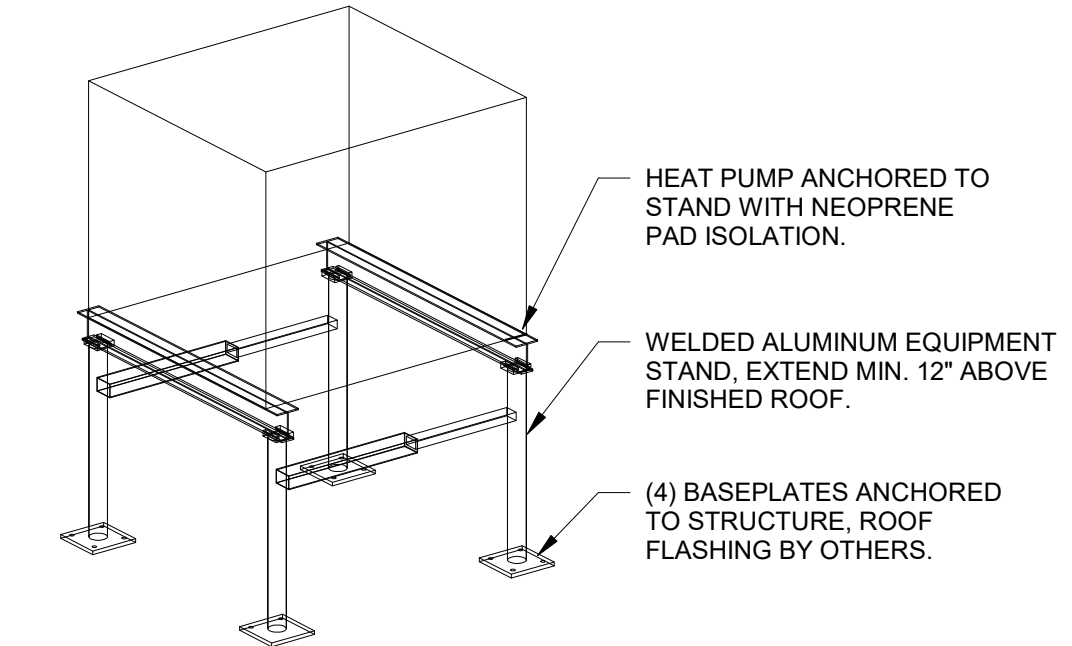
3 ROOF-MOUNTED EXHAUST FAN DETAIL - DOWNBLAST
M3.1 NOT TO SCALE



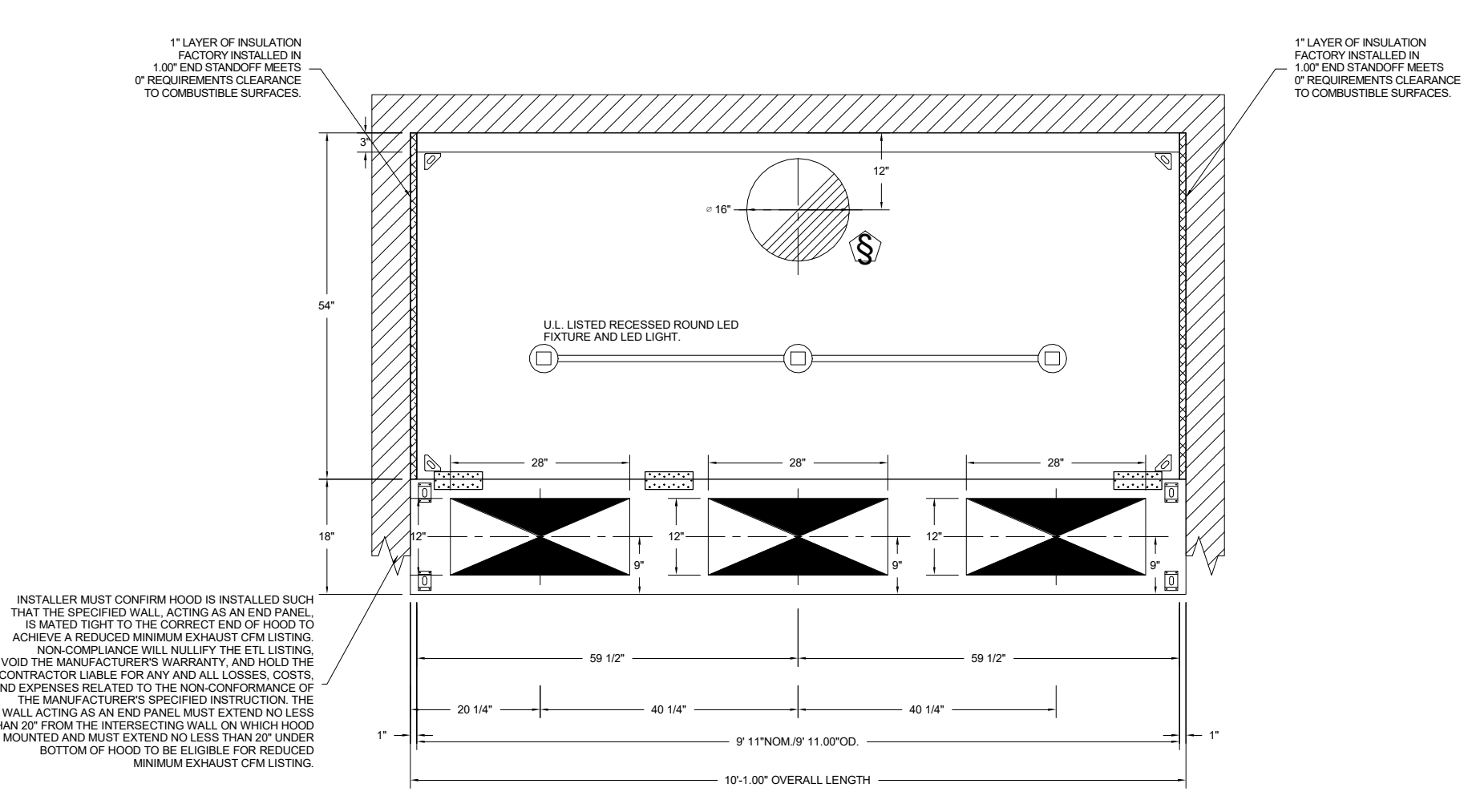
4 HVAC DRAIN DETAIL
M3.1 NOT TO SCALE



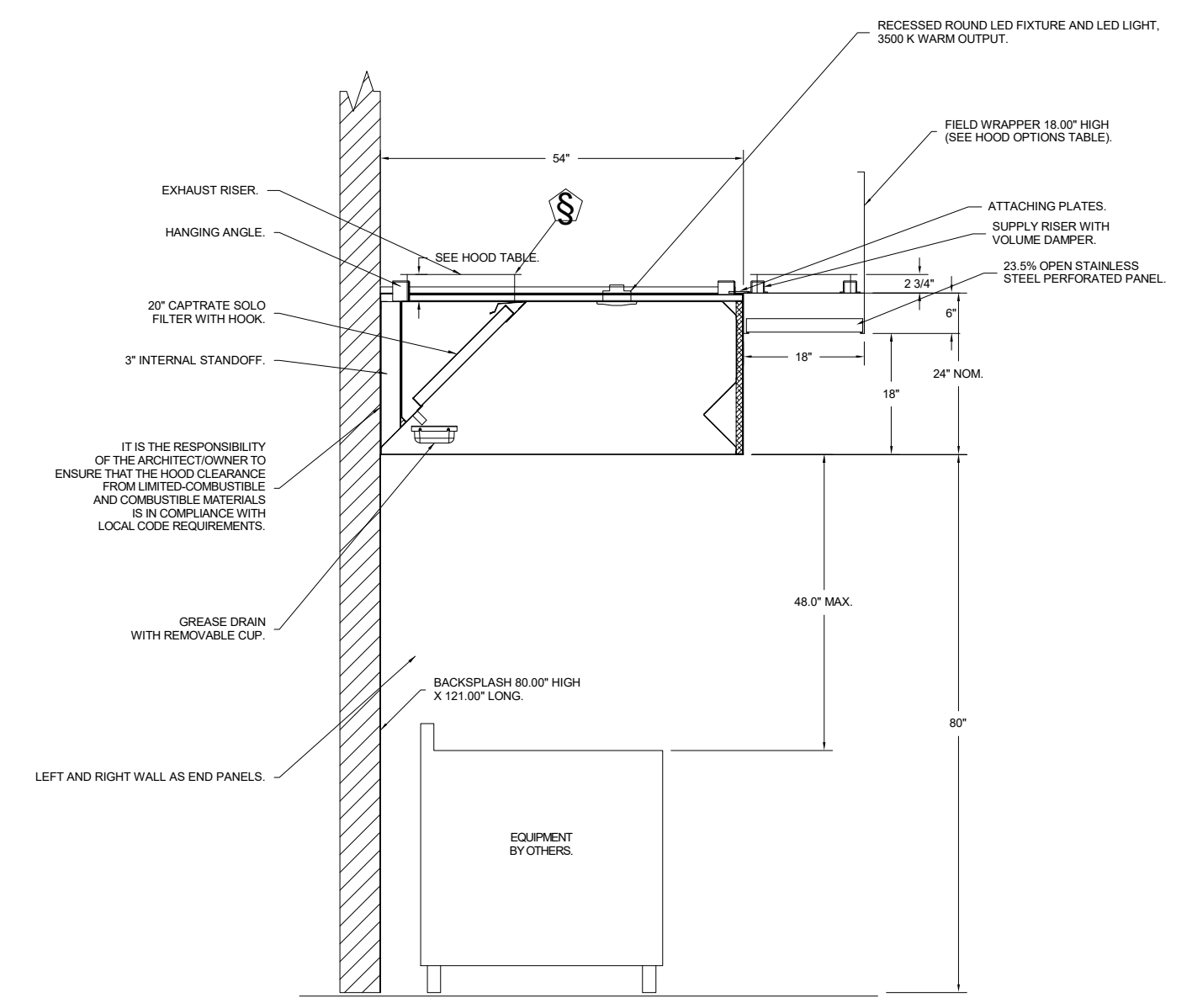
5 TAKEOFF DETAIL
M3.1 NOT TO SCALE



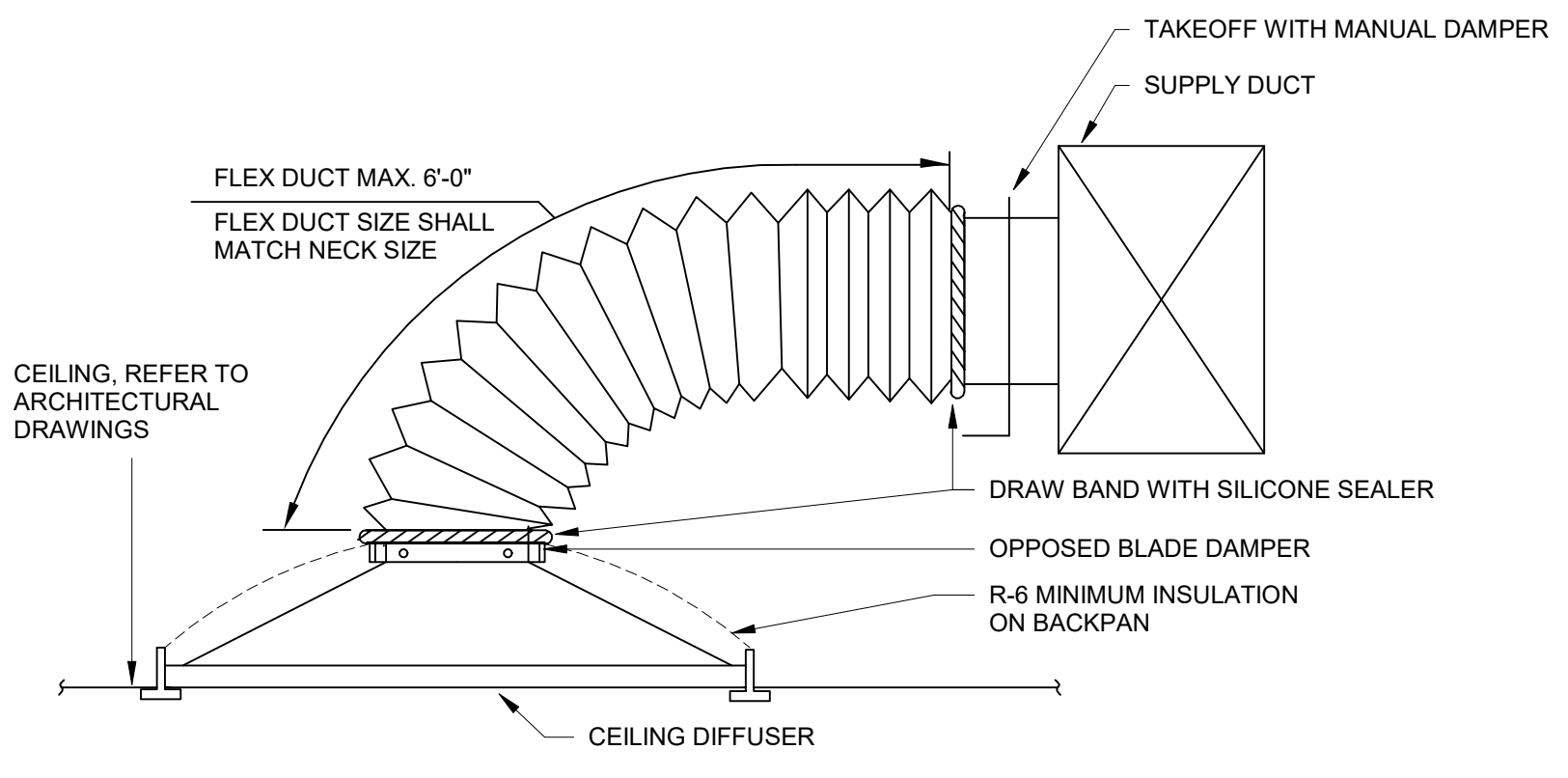
6 HEAT PUMP EQUIPMENT STAND DETAIL
M3.1 NOT TO SCALE



7 HOOD DETAIL PLAN VIEW
M3.1 NOT TO SCALE



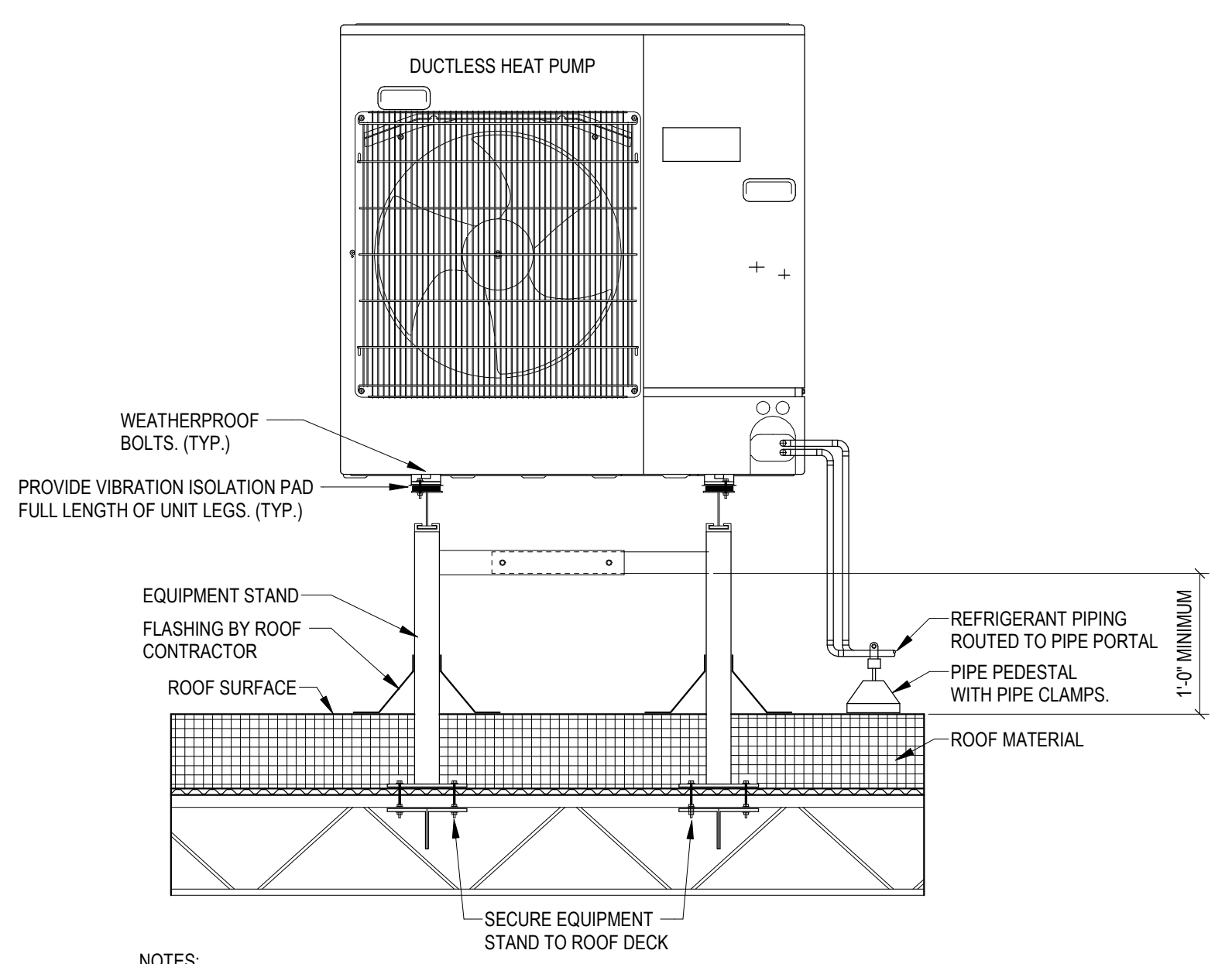
8 HOOD DETAIL SECTION VIEW
M3.1 NOT TO SCALE



9 TYPICAL DIFFUSER CONNECTION (SIDE)
M3.1 NOT TO SCALE

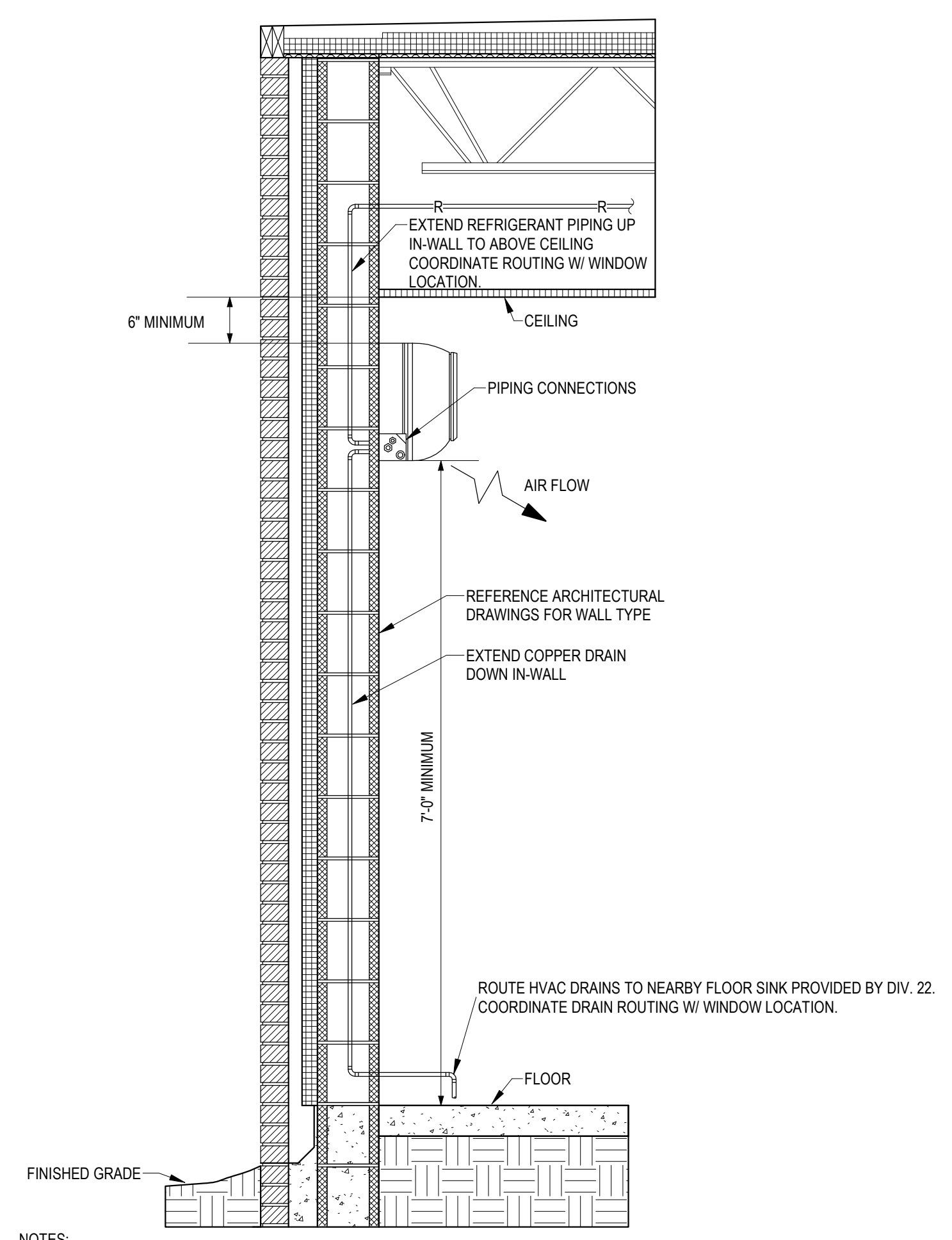
CIRQUE DAIQUIRI BAR & GRILL

2302 BULL STREET SAVANNAH, GA 31401



- NOTES:
1. EQUIPMENT STAND SHALL EXTEND A MINIMUM OF 12" ABOVE THE FINISHED ROOF SURFACE.
 2. EQUIPMENT STAND SHALL BE ALL ALUMINUM TYPE AND DESIGNED TO MEET THE SPECIFIED WIND LOAD REQUIREMENTS.
 3. MOUNT AND SECURE UNIT ON ALUMINUM EQUIPMENT STAND WITH WEATHERPROOF BOLTS.
 4. PROVIDE SERVICE SHUTOFF VALVES AT REFRIGERANT PIPE CONNECTIONS.
 5. EXPOSED REFRIGERANT PIPING SHALL HAVE WEATHERPROOF INSULATION AND METAL JACKETING.

1 DUCTLESS HEAT PUMP DETAIL
M3.2 NOT TO SCALE



- NOTES:
1. CONTRACTOR SHALL INSTALL AND COORDINATE IN-WALL PIPING IN CONJUNCTION WITH WALL CONSTRUCTION.
 2. WHERE ROOMS DO NOT HAVE A CEILING, AIR HANDLER SHALL BE INSTALLED AT THE MINIMUM HEIGHT.

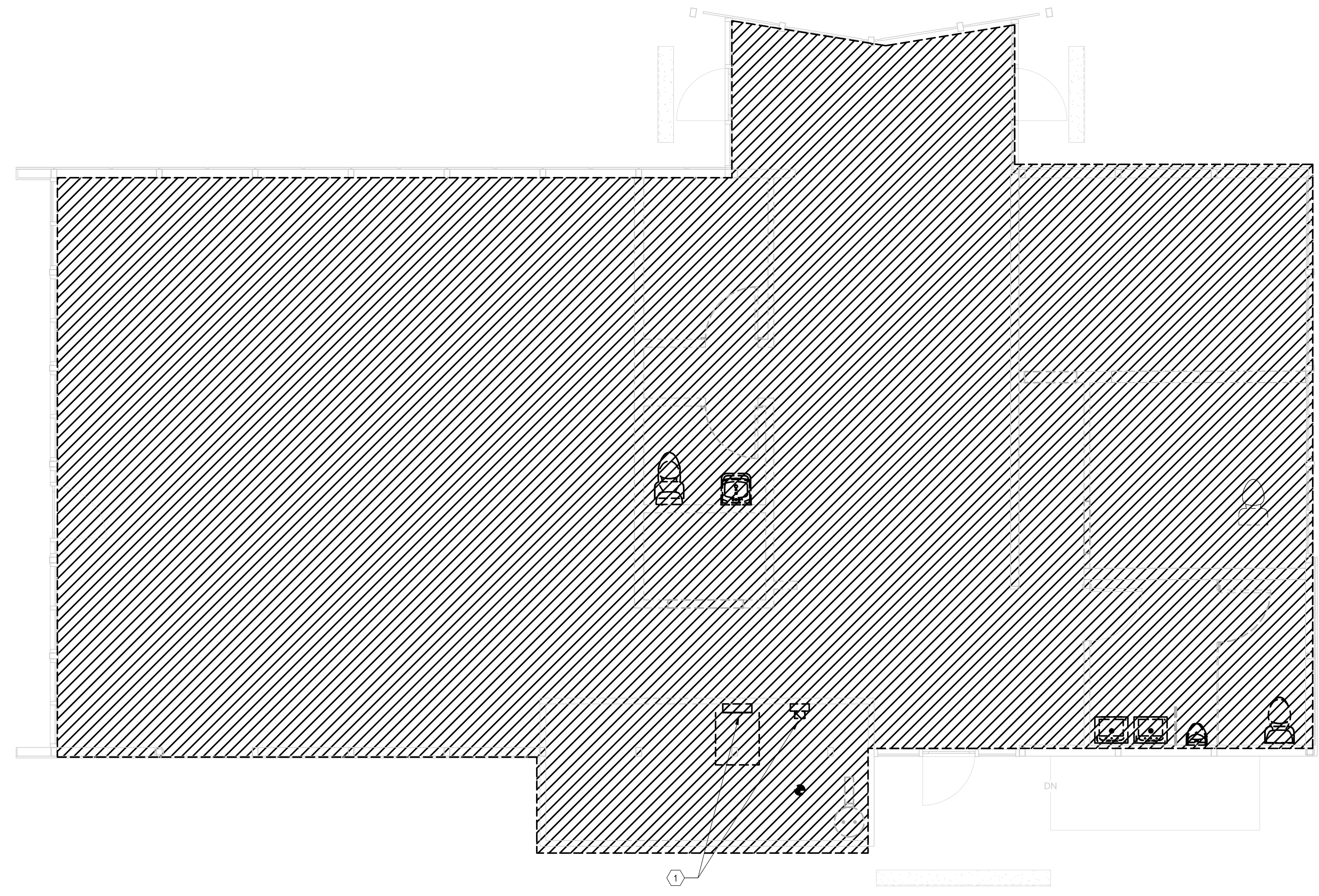
2 WALL MOUNTED DUCTLESS AIR HANDLER DETAIL
M3.2 NOT TO SCALE

DEMOLITION SHEET NOTES

- A SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- F DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
- H FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

KEYNOTES

- 1 DEMOLISH EXISTING METER AND PANEL SERVING BUILDING. EXISTING CONDUIT FROM UTILITY POLE TO BE REROUTED AND EXTENDED TO NEW METER LOCATION AS SHOWN ON NEW DRAWINGS.



1 LEVEL 1 ELECTRICAL DEMOLITION PLAN
E0.1 1/4" = 1'-0"

SITE PLAN SHEET NOTES

A ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.

B ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.

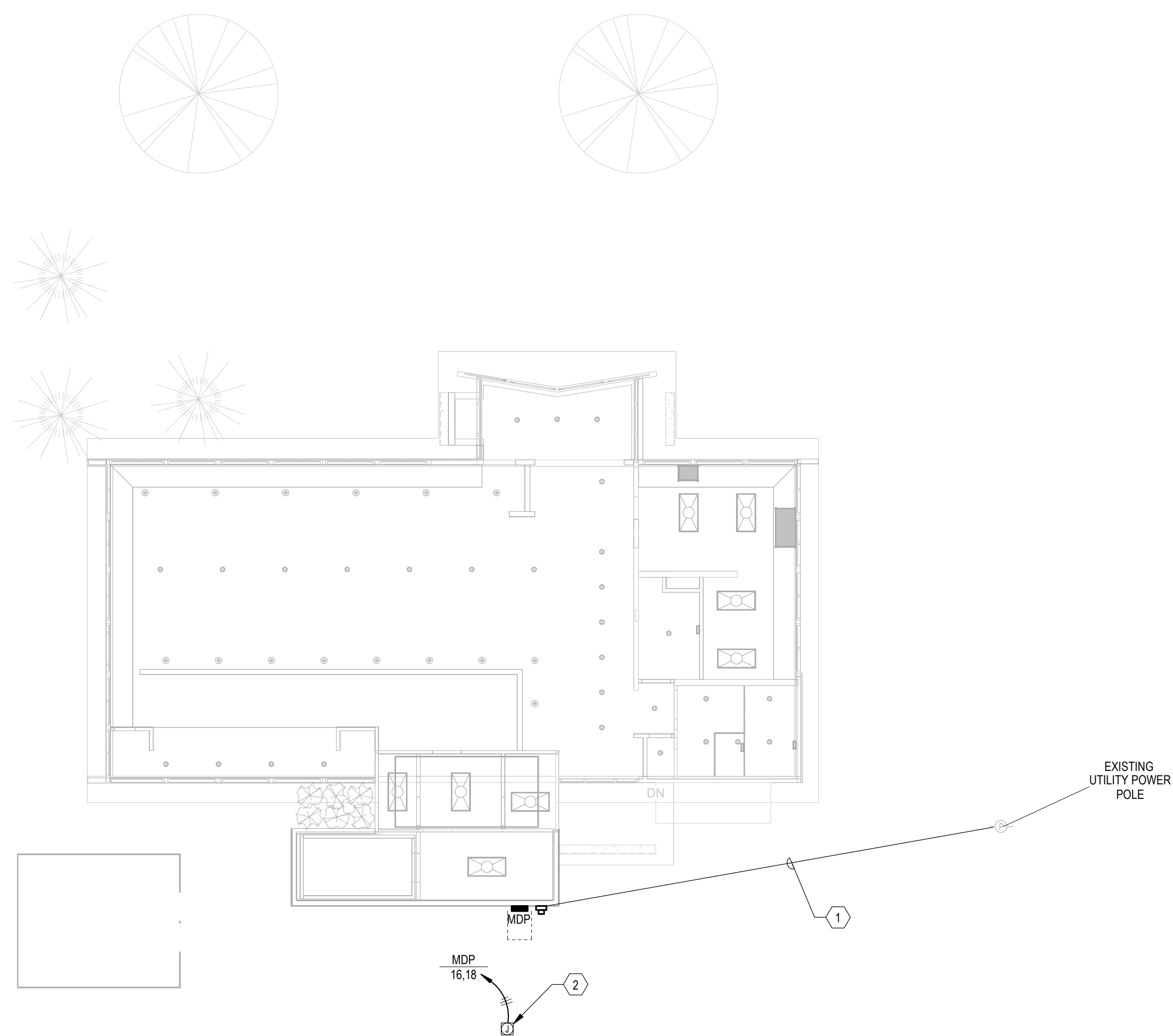
C ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

D PROVIDE TRANSFORMER BASE AT ALL POLE MOUNTED FIXTURES. TAP 2 LEGS OF THREE PHASE FEEDER (CIRCUITS DENOTED), PROVIDE BALLAST FUSES AT TAP, AND PROVIDE BRANCH CIRCUITS TO FIXTURES.

KEYNOTES

1 OVERHEAD CONNECTION TO NEW WEATHERHEAD.

2 PROVIDE 100A 240V 1 PHASE POWER PEDESTAL. PEDESTAL SHALL HAVE A NEMA 14-50R, NEMA TT-30R AND NEMA 5-20R WITH RESPECTIVE 50A/2P, 30A/1P AND 20A/1P BREAKERS. ROUTE TO 100A/2P BREAKER IN PANEL MDP WITH 3#1, #8G, 1-1/2". COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.



CIRQUE DAIQUIRI BAR & GRILL
 2302 BULL STREET SAVANNAH, GA 31401

ELECTRICAL SITE PLAN
 BDD

1 ELECTRICAL SITE PLAN
 E1.1 1" = 10'-0"

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	WIR	EMERGENCY COMPONENT	MFR	MODEL			EQUIVALENT MFR
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 LITHONIA	FP SERIES CPANL 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 LITHONIA	FP SERIES CPANL SERIES			AE
B	4" DOWNLIGHT	BLACK	SEMI-SPECULAR	RECESSED	LED	2000 lm	0 lm	3000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	20 W		--	LITHONIA	LDN4 SERIES	HALO COMMERCIAL GREEN CREATIVE		B
C	DECORATIVE PENDANT	SELECTED BY OWNER	--	SUSPENDED	LED	2000 lm	0 lm	3000 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	30 W		--	SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			C
D	DECORATIVE PENDANT	SELECTED BY OWNER	--	SUSPENDED	LED	2000 lm	0 lm	3000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	25 W		--	SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			D
E	4" STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/SURFACE	LED	4000 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		BATTERY (1000 LUMEN MIN)	LITHONIA	CSS SERIES	METALUX ILP	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF.	E
EW1	ELU INDOOR, TWO HEAD	WHITE	--	SURFACE WALL	LED	270 lm	0 lm	5000 K	80	--	--	120 V	4 W		BATTERY	LITHONIA	ELM2L SERIES	SURE-LITES EVENLITE	PROVIDE FIXTURE WITH SELECTABLE LUMENS AND SELECTABLE COLOR TEMPERATURE. SELECTABLE OPTIONS SHALL INCLUDE THE VALUES INDICATED ON THE SCHEDULE.	EW1
G	4" ENCLOSED AND GASKETED	WHITE	FROSTED POLYCARBONATE	CEILING SURFACE	LED Lamp	4500 lm	0 lm	4000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING	120 V	45 W		--	COLUMBIA METALUX LITHONIA	LXEM SERIES V14 SERIES FEM SERIES		IP 66 RATED	G
H	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	22 W		--	SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			H
OA	EXTERIOR WALL PACK (FORWARD THROW)	BRONZE		WALL 10' AFF	LED	2000 lm	0 lm	4000 K	70	70,000 HOURS	LED DRIVER, 0-10V DIMMABLE 0-10V	120 V	26 W		--	LUMARK HUBBELL LITHONIA	XTOR SERIES S30 SERIES WPX SERIES		IP66, WET LOCATION LISTED	OA
T1	TRACK HEAD, FLOOD	BLACK	--	TRACK	LED	2878 lm	0 lm	3500 K	90	50,000 HOURS	LED DRIVER, 2LV DIMMABLE, 2%	120 V	34 W		--	JUNO	T26SL SERIES	HALO		T1
TS1	LIGHTING TRACK, SINGLE-CIRCUIT, WHITE	BLACK	--	CEILING SURFACE	LED	0 lm	0 lm	0 K	0	--	--	120 V	216 W	27	--	JUNO	T SERIES	HALO		TS1
XCT1	EXIT SIGN, THERMOPLASTIC, 1-SIDED	WHITE WITH RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	1 W		BATTERY	LITHONIA DUAL-LITE SURE-LITES	LQM SERIES EVE SERIES APX SERIES			XCT1

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 8 POLE LIGHTING CONTACTOR PANEL WITH ASTRONOMICAL TIMELOCK. COORDINATE PROGRAMMING OF EACH CIRCUIT WITH OWNER PRIOR TO ROUGH-IN. SEE DETAIL FOR MORE INFORMATION.
- 2 PHOTOCELL FOR LIGHTING CONTACTOR PANEL.

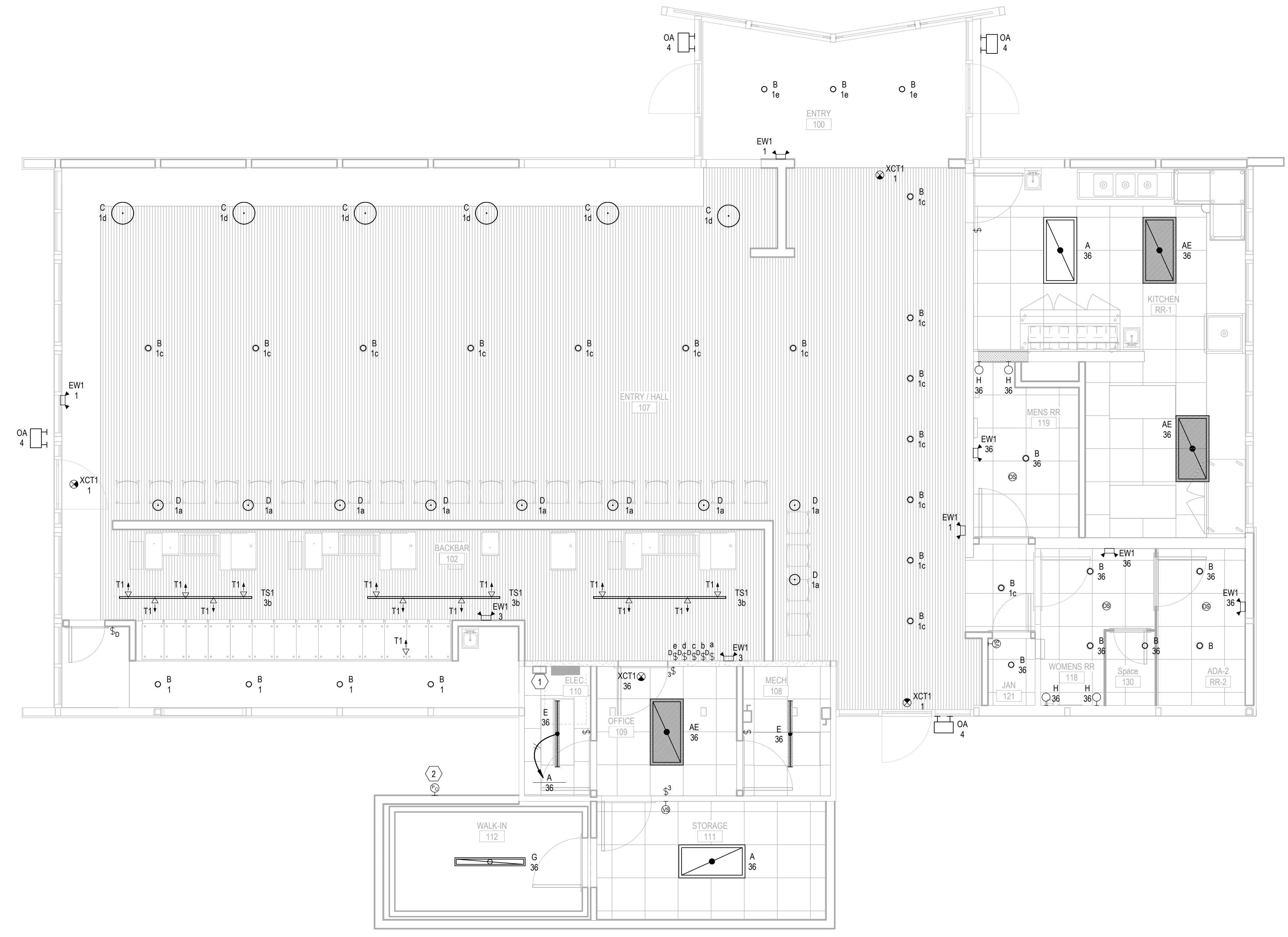


CIRQUE DAIQUIRI BAR & GRILL
2302 BULL STREET SAVANNAH, GA 31401

LIGHTING PLAN

BDD

E2.1



1 LIGHTING PLAN
1/4" = 1'-0"

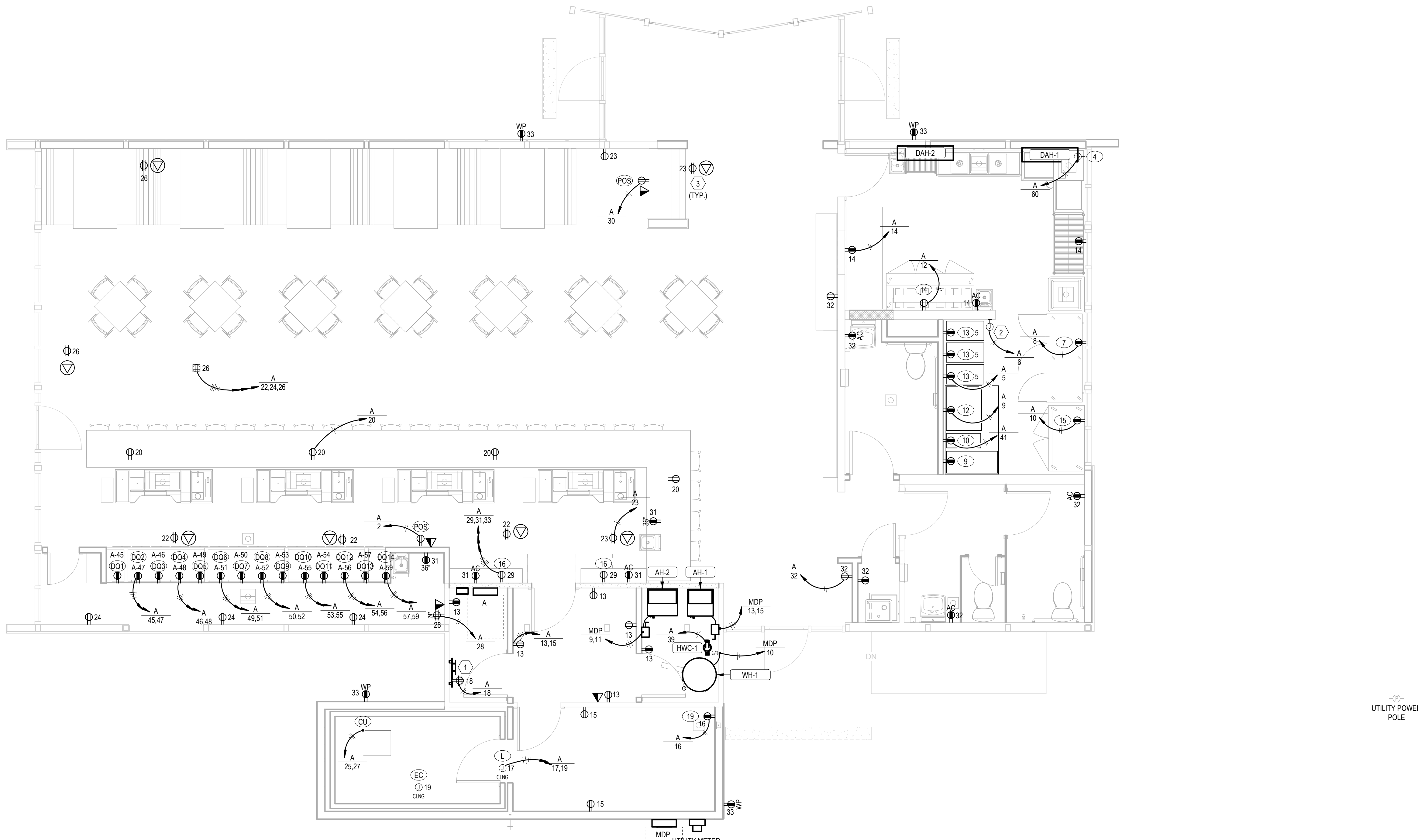
NO.	DESCRIPTION	LOAD					PHASE	CONDUIT & WIRE SIZE	DISCONNECT		CONNECTION		NOTES	NO.
		WATTS	FLA	MCA	MOCP	VOLT			COMPONENT	FURNISHED / INSTALLED	DIRECT	FURNISHED / INSTALLED		
2	EXHAUST HOOD	1200 VA	10 A	13 A	20 A	120 V	2#12,#12G,1/2"	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26		2	
4	DISH WASHER	1920 VA	16 A	20 A	25 A	120 V	2#12,#12G,1/2"	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26		4	
7	72" UNDERCOUNTER FRIDGE	384 VA	3 A	4 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	7	
9	RANGE, STOCK POT (GAS)	180 VA	2 A	2 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	9	
10	HOTPLATE, COUNTERTOP (GAS)	180 VA	2 A	2 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	10	
12	GRIDDLE, COUNTERTOP (GAS)	180 VA	2 A	2 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	12	
13	FRYER, GAS	180 VA	2 A	2 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	13	
14	72" MEGA TOP SANDWICH / SALAD FRIDGE	630 VA	8 A	9 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	14	
15	54" UPRIGHT FRIDGE	377 VA	3 A	4 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	15	
16	BACK BAR CABINET	336 VA	3 A	4 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	16	
18	REMOTE CONDENSER FOR DAIQUIRI MACHINES	5280 VA	22 A	28 A	35 A	240 V	2#10,#10G,3/4"	30/2/3R	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26	ONE CONDENSING UNIT PER THREE DAIQUIRI MACHINES	18	
19	ICE MACHINE	1500 VA	13 A	16 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		19	
CU	CONDENSING UNIT	1920 VA	8 A	10 A	20 A	240 V	2#12,#12G,1/2"	30/2/3R	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26		CU	
DQ1	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ1	
DQ2	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ2	
DQ3	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ3	
DQ4	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ4	
DQ5	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ5	
DQ6	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ6	
DQ7	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ7	
DQ8	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ8	
DQ9	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ9	
DQ10	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ10	
DQ11	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ11	
DQ12	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ12	
DQ13	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ13	
DQ14	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ14	
EC	EVAPORATOR COIL	720 VA	6 A	8 A	20 A	120 V	2#12,#12G,1/2"	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26		EC	
L	WALK-IN COOLER LIGHTS AND CONTROLS	1200 VA	10 A	13 A	20 A	120 V	2#12,#12G,1/2"	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV 26 / DIV 26		L	

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.

KEYNOTES

- 1 PROVIDE AC TYPE PLYWOOD w/FIRE RETARDANT PAINT FOR LOW VOLTAGE EQUIPMENT. ROUTE 2" CONDUIT FROM LOW VOLTAGE ENTRY POINT AT REAR OF SPACE TO THIS LOCATION. PROVIDE GROUND BAR AND QUAD RECEPTACLE NEAR BACKBOARD.
- 2 CONNECTION FOR EXHAUST HOOD. COORDINATE EXACT LOCATION OF UTILITY CABINET WITH EXHAUST HOOD INSTALLER PRIOR TO ROUGH-IN.
- 3 RECEPTACLE AND DATA FOR CEILING MOUNTED TV. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. TYPICAL OF 8.



CIRQUE DAIQUIRI BAR & GRILL
2302 BULL STREET SAVANNAH, GA 31401

POWER PLAN

BDD

E3.1

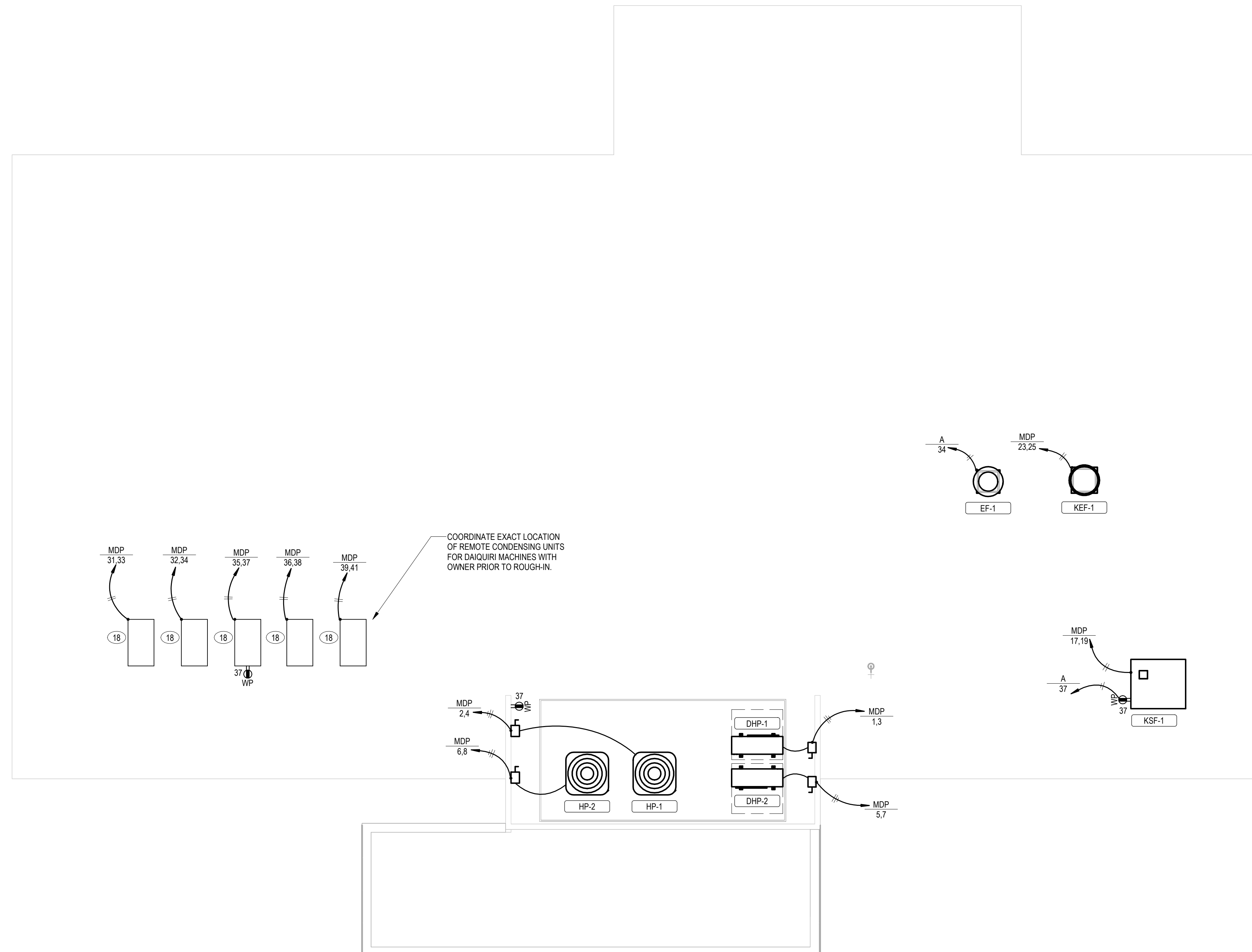
ELECTRICAL EQUIPMENT SCHEDULE																	
ID	EQUIPMENT INFORMATION					CIRCUIT INFORMATION				CONTROL			DISCONNECT			NOTES	ID
	WATTAGE	FLA	MCA	MOCP	VOLT	PH	PANEL NO.	WIRE & CONDUIT SIZE	DESCRIPTION	FURNISH	INSTALL	DESCRIPTION	FURNISH	INSTALL			
Air Handler																	
AH-1	8668 W	35.7 A	47.0 A	50 A	240 V	1	MDP	13,15	2#6,#10G,3/4" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 1	DIV. 26	DIV. 26		AH-1
AH-2	10920 W	45.5 A	56.9 A	60 A	240 V	1	MDP	9,11	2#4,#10G,1" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 1	DIV. 26	DIV. 26		AH-2
Ductless Heat Pump																	
DHP-1	3840 W	16.0 A	20.0 A	25 A	240 V	1	MDP	1,3	2#10,#10G,1/2" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26	INDOOR UNIT FED FROM OUTDOOR UNIT.	DHP-1
DHP-2	3840 W	16.0 A	20.0 A	25 A	240 V	1	MDP	5,7	2#10,#10G,1/2" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26	INDOOR UNIT FED FROM OUTDOOR UNIT.	DHP-2
Exhaust Fan																	
EF-1	156 W	1.3 A	1.6 A	20 A	120 V	1	A	34	2#12,#12G,1/2" C	DIV. 23 - TIMER SWITCH	DIV. 23	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		EF-1
Heat Pump																	
HP-1	4800 W	20.0 A	24.7 A	40 A	240 V	1	MDP	2,4	2#10,#10G,1/2" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		HP-1
HP-2	6432 W	26.8 A	33.2 A	50 A	240 V	1	MDP	6,8	2#8,#10G,3/4" C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		HP-2
Hot Water Circulating Pump																	
HWC-1	864 W	7.2 A	9.0 A	15 A	120 V	1	A	39	2#12,#12G,1/2" C	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		HWC-1
Kitchen Exhaust Fan																	
KEF-1	2400 W	10.0 A	12.5 A	20 A	240 V	1	MDP	23,25	2#12,#12G,1/2" C	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		KEF-1
Kitchen Supply Fan																	
KSF-1	2400 W	10.0 A	12.5 A	20 A	240 V	1	MDP	17,19	2#12,#10G,1/2" C	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		KSF-1
Water Heater																	
WH-1	600 W	5.0 A	6.3 A	20 A	120 V	1	MDP	10	2#12,#12G,1/2" C	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		WH-1

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.
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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 ON EQUIPMENT OR SUPPORT STRUCTURES. PROVIDE ADDITIONAL RECEPTACLES ON SAME RECEPTACLE CIRCUIT AS REQUIRED TO HAVE A RECEPTACLE WITHIN 25' OF ALL EQUIPMENT.



1 ROOF POWER PLAN
E3.2 1/4" = 1'-0"

CIRQUE DAIQUIRI BAR & GRILL

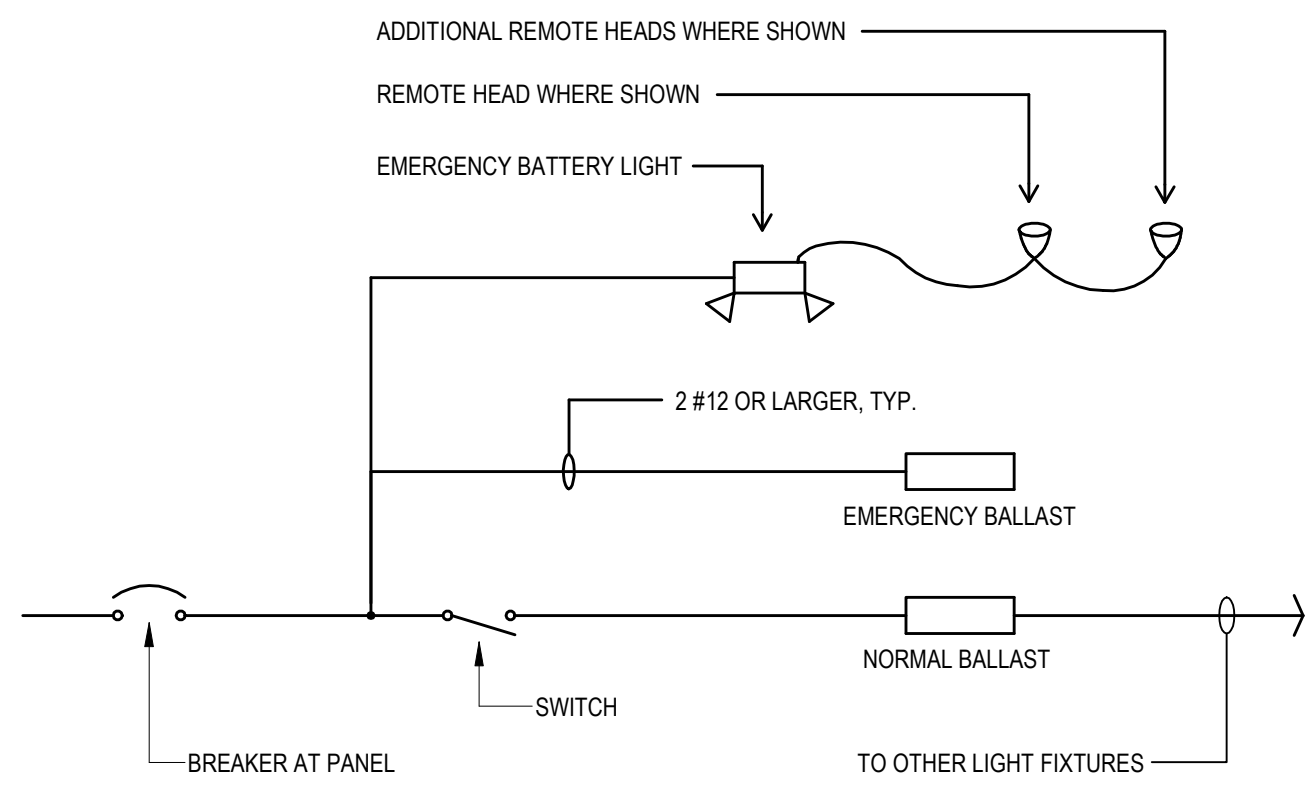
2302 BULL STREET SAVANNAH, GA 31401

ROOF POWER PLAN

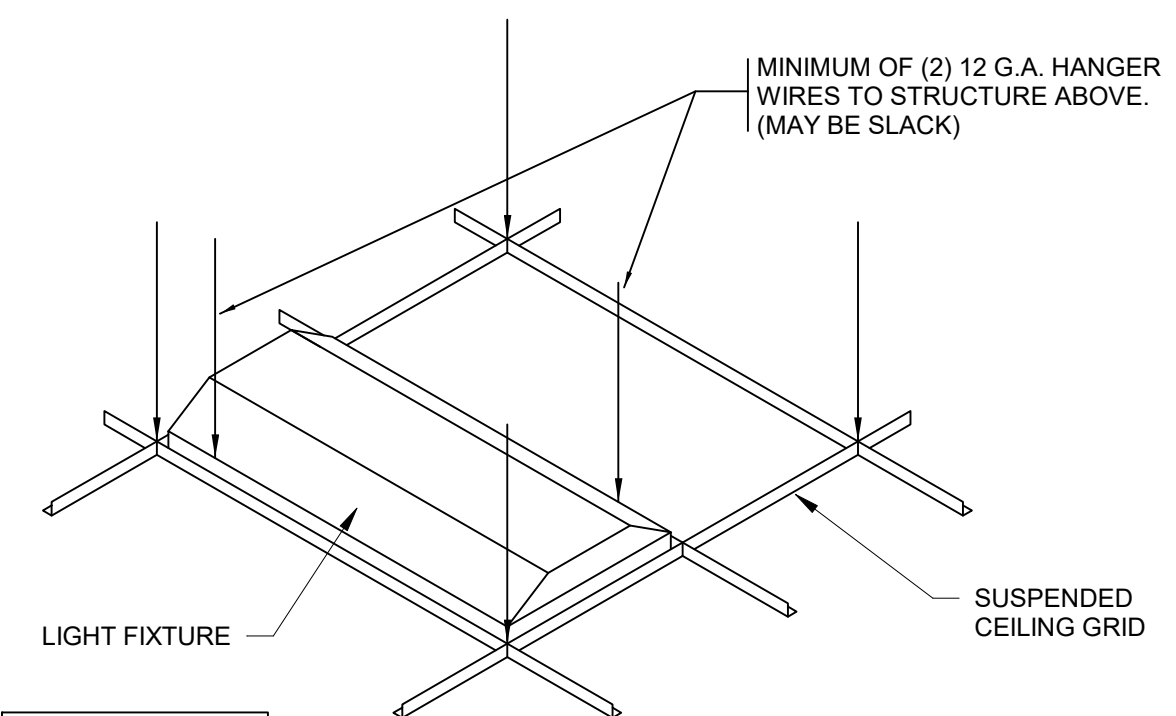
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E3.2

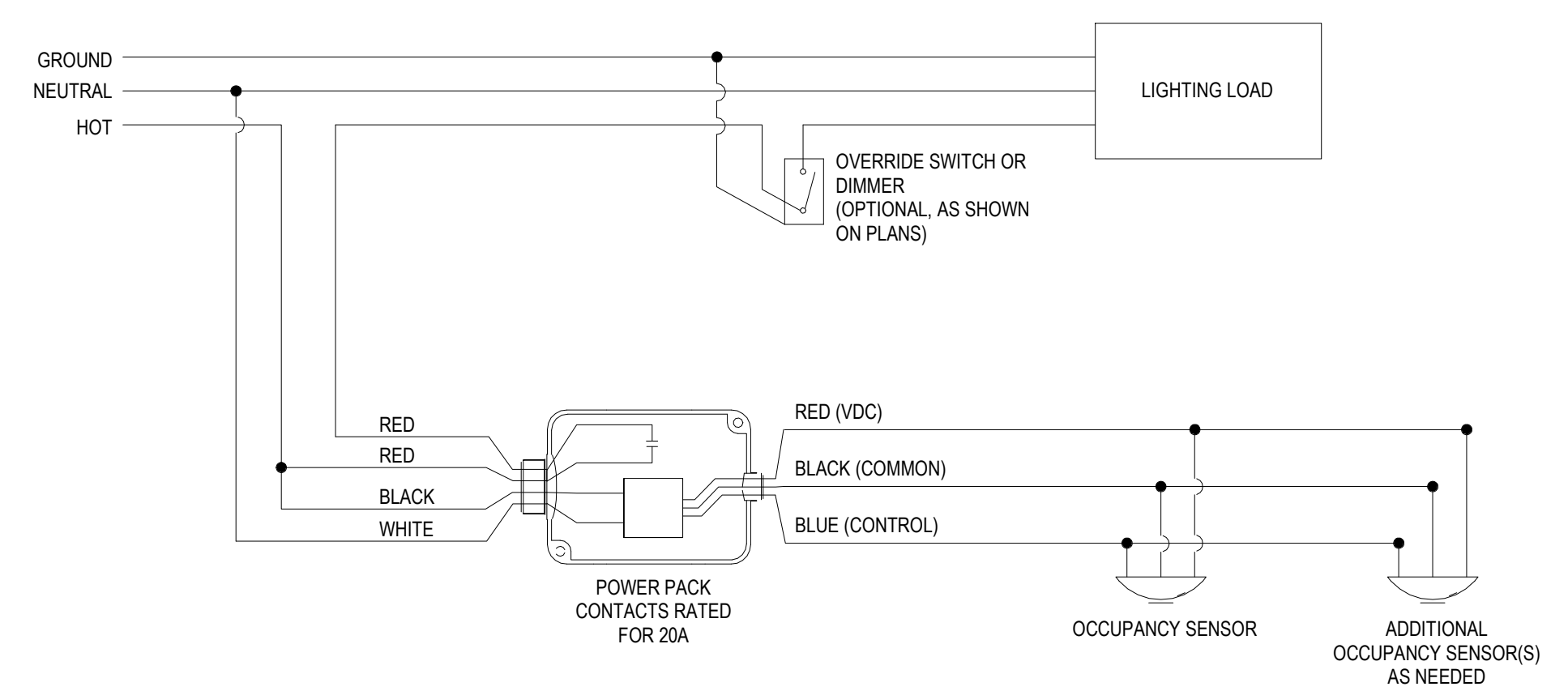


1 EMERGENCY LIGHTING WIRING DIAGRAM
E4.1 NOT TO SCALE



NOTE:
TYPICAL FOR 2'X4' LUMINARIES.

2 LIGHT SUPPORT DETAIL
E4.1 NOT TO SCALE



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

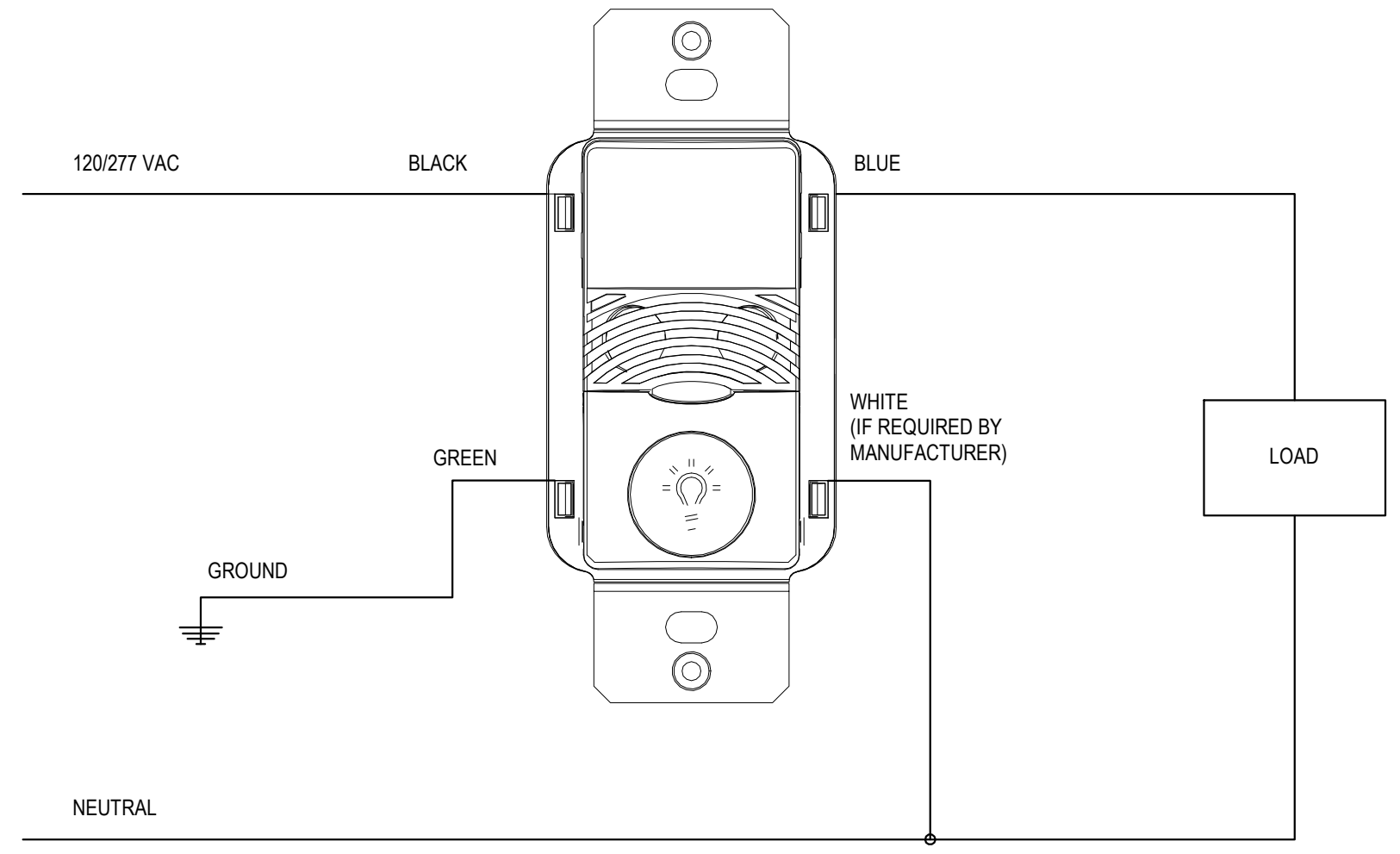
3 OCCUPANCY SENSOR DETAIL
E4.1 NOT TO SCALE

VACANCY (MANUAL ON/AUTO OFF) MODE

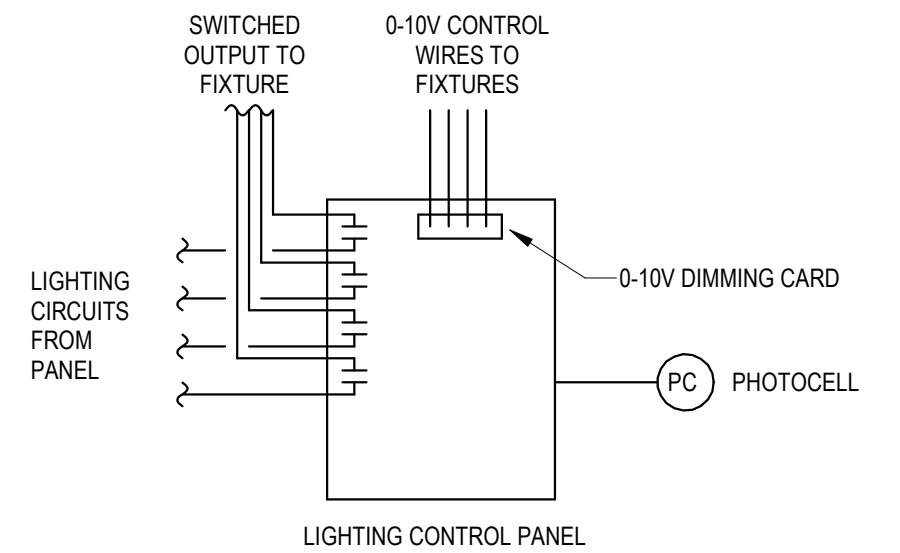
- SWITCH IS REQUIRED TO TURN LOAD ON.
- LOAD TURNS OFF WHEN SENSOR TIMES OUT OR WITH SWITCH.

OCCUPANCY (AUTO ON/AUTO OFF) MODE

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



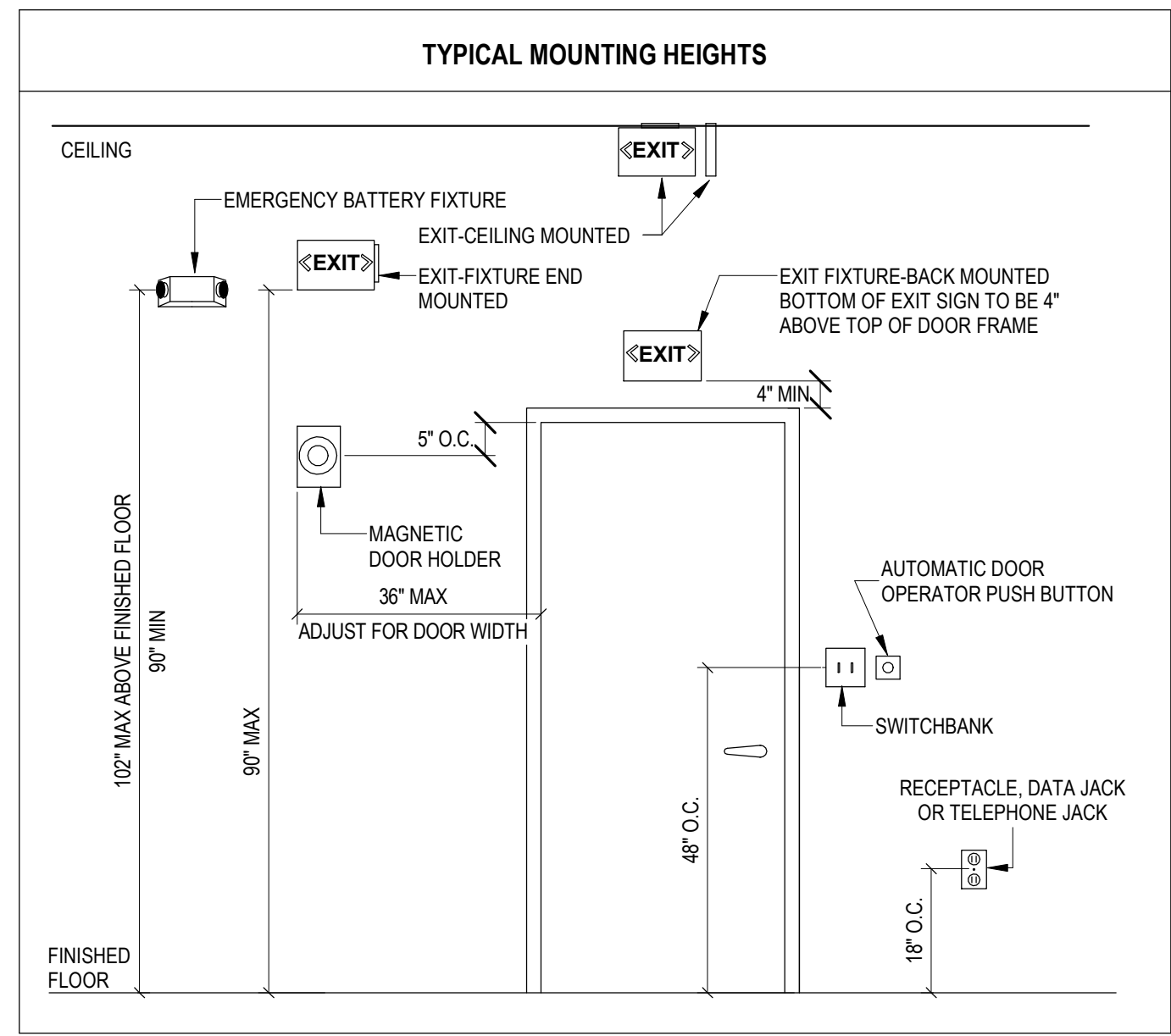
4 WALL MOUNTED OCCUPANCY/VACANCY SENSOR
E4.1 NOT TO SCALE



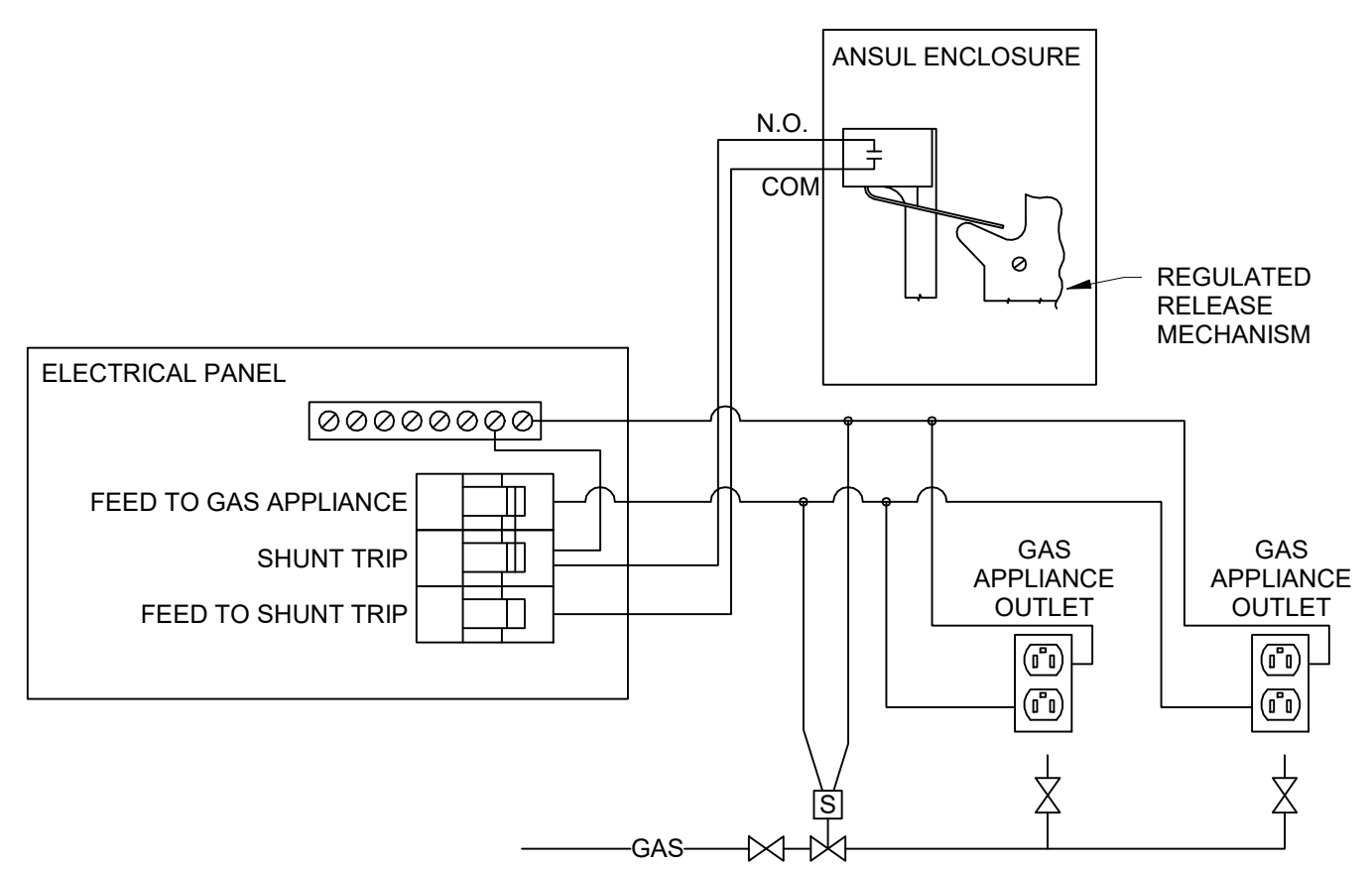
- NOTES**
- LIGHTING CONTROL PANEL SHALL HAVE ASTRONOMICAL TIMECLOCK.
 - EXTERIOR LIGHTING CIRCUITS SHALL TURN ON WITH PHOTOCELL WHEN NOT ENOUGH LIGHT IS PRESENT AND REDUCE BY 30% BETWEEN HOURS OF 12AM AND 6AM OR SHUT OFF COMPLETELY. AT 6AM EXTERIOR LIGHTS CAN INCREASE TO 100% UNTIL THEY TURN OFF WHEN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

5 LIGHTING CONTROL DETAIL
E4.1 NOT TO SCALE

LIGHTING CONTROL SCHEDULE				
ZONE	DESCRIPTION	CIRCUIT	CONTROL TYPE	NOTES
1	INTERIOR LIGHTING	A-1	TIME-ON / TIME-OFF	
2	INTERIOR LIGHTING	A-3	TIME-ON / TIME-OFF	
3	INTERIOR LIGHTING	A-2	TIME-ON / TIME-OFF	
4	EXTERIOR LIGHTING	A-4	PHOTO-ON / PHOTO-OFF W/ DIMMING	2
5	SPARE	--		
6	SPARE	--		
7	SPARE	--		
8	SPARE	--		



6 TYPICAL MOUNTING HEIGHTS
E4.1 NOT TO SCALE



7 SHUNT TRIP FOR GAS APPLIANCES UNDER KITCHEN HOOD
E4.1 NOT TO SCALE

Certificate of Appropriateness

Streetcar Historic District

23-000590-COA

Approved: 02/22/2023

Stamped: 06/18/2024, Caitlin Chamberlain