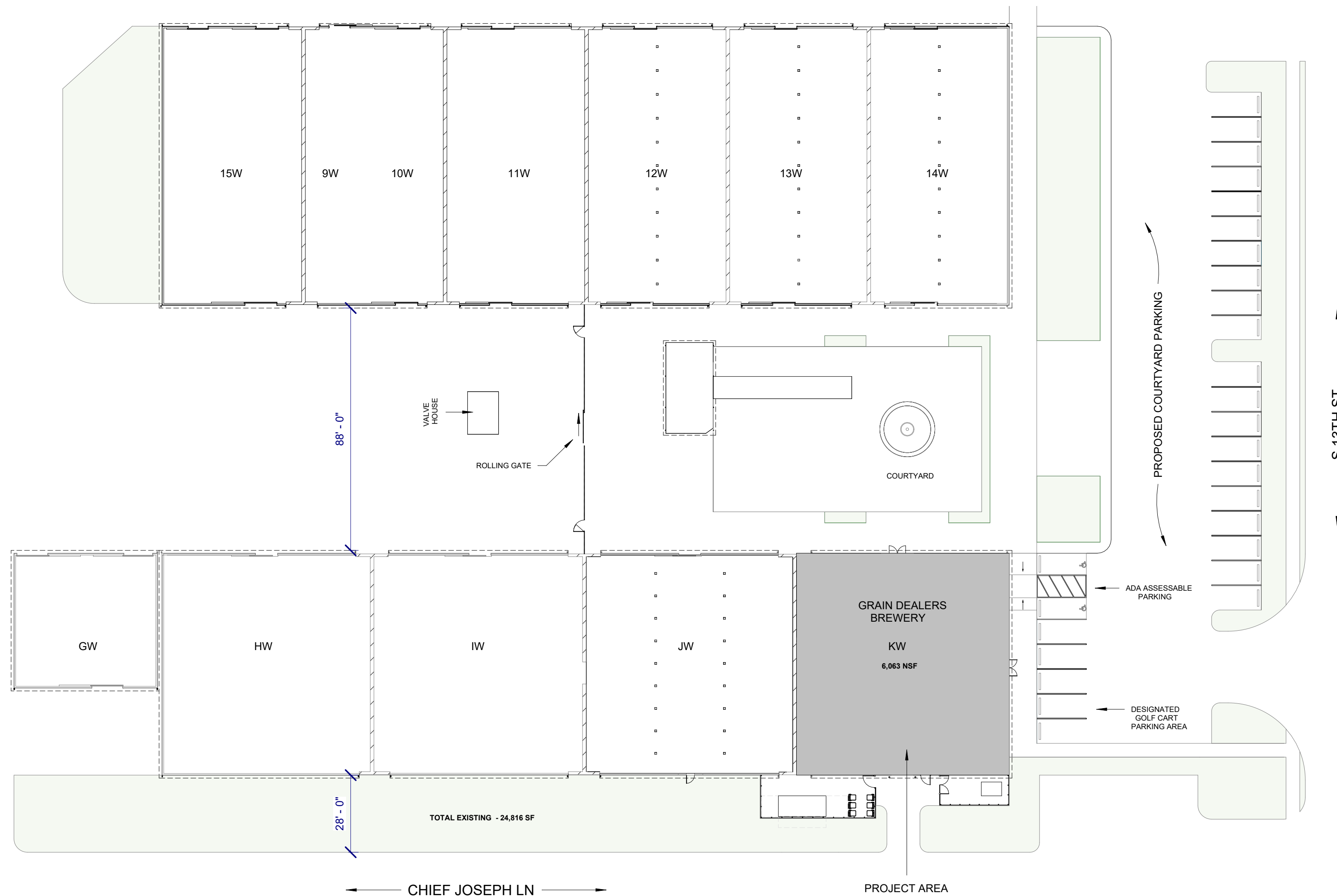
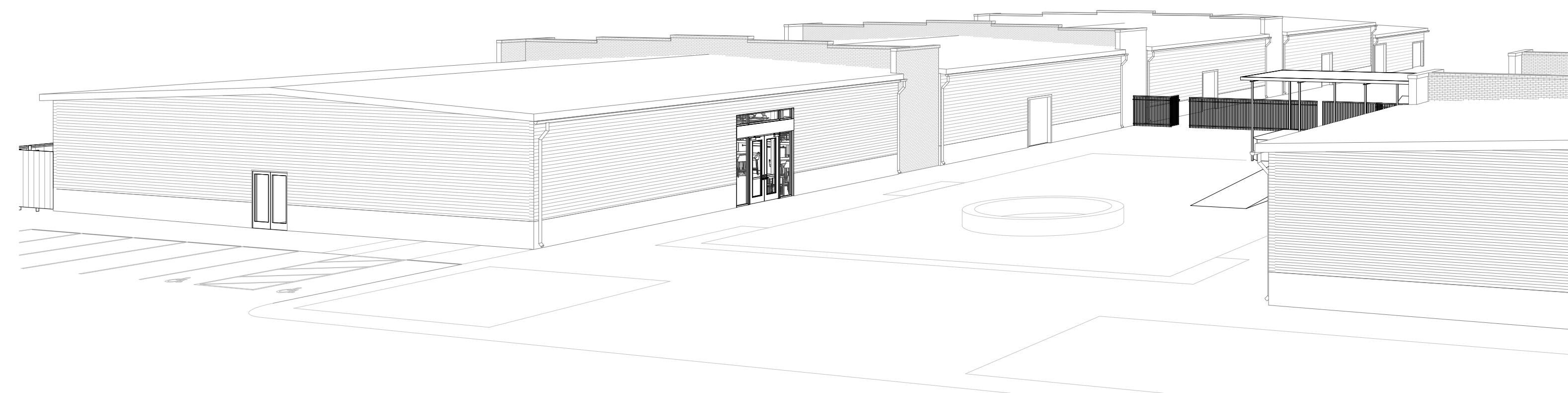


GRAIN DEALERS BREWERY

100 North 13th St, Bay K
Erwin, NC

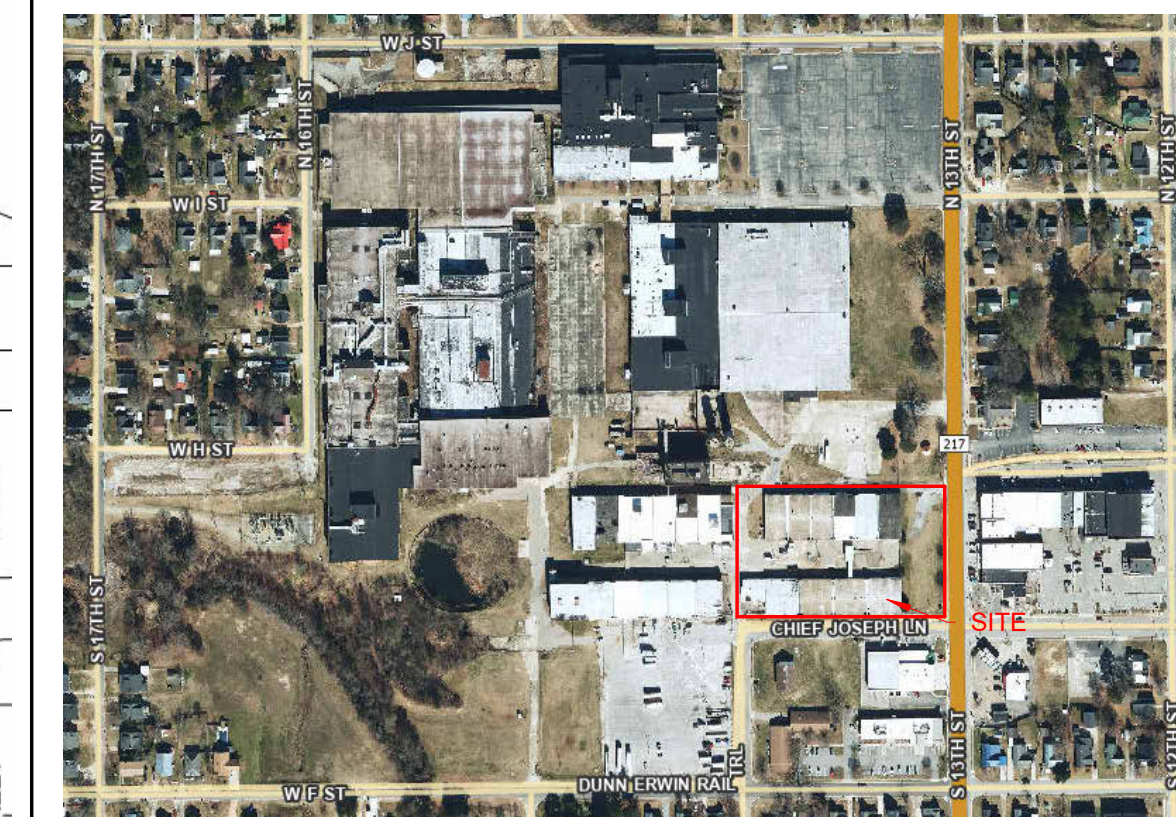
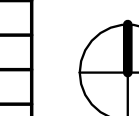


SITE PLAN 2
1" = 30'-0"

GENERAL	
G000	COVER SHEET
G001	CODE SUMMARY
G104	ABBREVIATIONS
G200	LIFE SAFETY
G300	WALL TYPES
CIVIL	
C000	
LANDSCAPE	
L000	
ARCHITECTURAL	
A101	SITE PLAN - ENLARGED
A111	FLOOR PLAN
A112	DEMO PLAN
A113	REFLECTED CEILING PLAN
A114	FURNITURE PLAN
A115	FINISH PLAN
A130	ROOF PLAN
A201	BREWERY ELEVATIONS
A202	INTERIOR ELEVATIONS
A401	ENLARGED BAR SECTION AND DETAILS
A402	ENLARGED BAR ELEVATIONS
A403	ENLARGED BATHROOM PLANS
A404	ELEVATED PLATFORM FRAMING PLAN
A405	ELEVATED PLATFORM SECTIONS & DETAILS
A406	MEZZANINE FRAMING PLAN & SECTIONS
A500	DETAILS
A600	DOOR & WINDOW SCHEDULE
A900	PERSPECTIVES
A901	INTERIOR PERSPECTIVES
A902	PERSPECTIVES
A903	PERSPECTIVES
STRUCTURAL	
S000	
PLUMBING	
P1	PLUMBING SPECIFICATIONS
P2	DWV PLAN
P3	WATER PLAN
P4	DWV/WATER RISERS
P5	NATURAL GAS PLAN
MECHANICAL	
M1	HVAC SPECS
M2	HVAC PLAN
M3	HVAC SPECS, DETAILS
ELECTRICAL	
E1	ELECTRICAL SPECS
E2	LIGHTING PLAN
E3	POWER PLAN
E4	PANEL SPECS
FIRE ALARM	
FA000	
FIRE PROTECTION	
FP000	



VICINITY MAP



NARRATIVE

PROJECT NARRATIVE

THE PROJECT IS AN INTERIOR ALTERATION OF BAY K OF THE HISTORIC ERWIN MILL IN ERWIN NC.

THE PROPOSED USE IS A NEW BREWERY AT THE BACK SIDE OF BAY K WITH A NEW SERVICE ENTRANCE.

ALSO INCLUDED IN THE SCOPE OF WORK ARE THE FOLLOWING:

- BAR SERVING BEER AND SOFT DRINKS
- MIXED SEATING
- STAFF OFFICE SPACE
- PRIVATE COMMUNITY MEETING ROOM
- POD CAST STUDIO
- TOILETS, STORAGE AND UTILITY SPACES.
- NEW HVAC, ELECTRICAL AND PLUMBING

MOST OF THE ORIGINAL HISTORIC CHARACTER WILL BE PRESERVED.

OWNER

200 North 13 LLC
200 North 13 Street,
Erwin, NC 28339-1700
Contact: Wesley Johnson
E-Mail: info@graindealersbrewery.com
Phone: (919) 756-0411

ARCHITECT

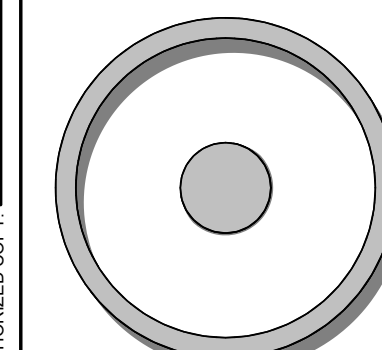
Olive Architecture
436 N. Harrington St. Suite 140
Raleigh, NC 27603
E-Mail: andy@Olive-Arch.com
Phone: (919) 838-9934
Fax: (919) 838-9995

PME ENGINEER

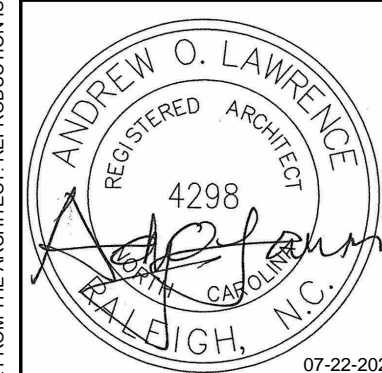
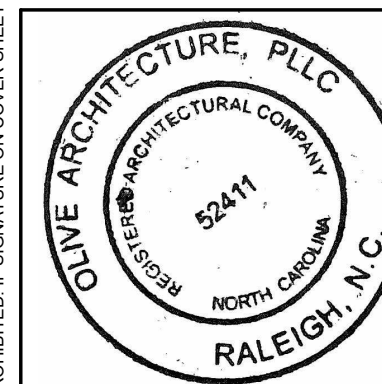
Burke Design Group
3305 Durham Dr Suite 109
Raleigh, NC 27603
Contact: Ben Burke
E-Mail: ben@bdg-nc.com
Phone: 919-771-1916
Fax:

F.P ENGINEER

J & D SPRINKLER CO, INC
315 W. Main Street
Clayton, NC 27520
Contact: Bob Weaver
E-Mail: bob@jdsprinkler.com
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PERMIT SET

GRAIN DEALERS BREWERY

100 North 13th St, Bay K
Erwin, NC

issue date:

ISSUE	NAME	DATE
1ST	BID SET	06/18/2024
1ST	PERMIT SET	07/22/2024

revisions:

Revision	Date	Description

drawn by:

AL

checked by:

AOL

project no:

23-117

COVER SHEET

G000

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2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: GRAIN DEALERS BREWERY
Address: 100 North 13th St, Bay K Erwin, NC
Owner/Authorized Agent: Andy Lawrence

CONTACT: Table with columns for Designer, Firm, Name, License #, Telephone #, E-Mail. Includes Olive Architecture and Burke Design Group.

2018 NC BUILDING CODE: New Building, Addition, Renovation
2018 NC EXISTING BUILDING CODE: Existing: Prescriptive, Repair, Chapter 14

CONSTRUCTED: (date) 1905 CURRENT OCCUPANCY(S) (Ch. 3): S-2
RENOVATED: (date) 2024 PROPOSED OCCUPANCY(S) (Ch. 3): A-2 / B

BASIC BUILDING DATA
Construction Type: I-A, II-A, III-A, IV, V-A
Sprinklers: No, Partial, Yes
Standpipes: No, Yes, Class I, II, III, Wet, Dry

Gross Building Area Table with columns for Floor, Existing (sqft), New (sqft), Sub-Total. Rows for 8th, 7th, 6th, 5th, 4th, 3rd, 2nd, 1st floor and Basement.

ALLOWABLE AREA
Primary Occupancy Classification(s): Select one
Assembly: A-1, A-2, A-3, A-4, A-5
Business, Educational, Factory, Hazardous, Institutional, Mercantile, Residential, Storage

Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions (Chapter 5 - List Code Sections):
Mixed Occupancy: No, Yes
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building.

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2 AREA, (C) AREA FOR FRONTAGE INCREASES, (D) ALLOWABLE AREA PER STORY OR UNLIMITED.

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (P/P)
d. W = Minimum width of public way = (W)
e. Percent of frontage increase I_p = 100[F/P - 0.25] x W/30 = (%)

ALLOWABLE HEIGHT Table with columns: Building Height in Feet (Table 504.3), ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Shows 75'-0" and 20'-3" heights.

FIRE PROTECTION REQUIREMENTS Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS. Lists elements like Structural Frame, Bearing Walls, Exterior Walls, etc.

PERCENTAGE OF WALL OPENING CALCULATIONS Table with columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.5), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%).

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: No, Yes
Exit Signs: No, Yes
Fire Alarm: No, Yes
Smoke Detection Systems: No, Yes, Partial
Panic Hardware: No, Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G200
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)

ACCESSIBLE DWELLING UNITS (SECTION 1107) Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED. Shows N/A.

ACCESSIBLE PARKING (SECTION 1106) Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, # OF ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' ACCESS AISLE, 132" ACCESS AISLE, 8' ACCESS AISLE), TOTAL # ACCESSIBLE PROVIDED. Shows N/A.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) Table with columns: USE, WATERCLOSETS (MALE, FEMALE, UNSEX), URINALS, LAVATORIES (MALE, FEMALE, UNSEX), SINKS, DRINKING FOUNTAINS (REGULAR, ACCESSIBLE). Shows requirements for various spaces.

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet.

Existing building envelope complies with code: No, Yes
Exempt Building: No, Yes
Climate Zone: 3A, 4A, 5A
Method of Compliance: Energy Code, ASHRAE 90.1, Prescriptive

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Exterior Walls (each assembly)
Walls below grade (each assembly)
Floors over unconditioned space (each assembly)
Floors slab on grade

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s), Seismic (I_e)
Live Loads: Roof, Mezzanine, Floor
Ground Snow Load:
Wind Load: Basic Wind Speed, Exposure Category

SEISMIC DESIGN CATEGORY:
Risk Category (Table 1604.5)
Spectral Response Acceleration S_s, S_1
Site Classification (ASCE 7) A, B, C, D, E, F
Data Source: Field Test, Presumptive, Historical Data

LATERAL DESIGN CONTROL: Earthquake, Wind
SOIL BEARING CAPACITIES: Field Test, Presumptive Bearing Capacity, Pile size, type, and capacity

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb, summer dry bulb
Interior design conditions
winter dry bulb, summer dry bulb, relative humidity
Building heating load, Building cooling load
Mechanical Spacing Conditioning System
Unitary: description of unit, heating efficiency, cooling efficiency, size category of unit
Boiler: Size category, If oversized, state reason
Chiller: Size category, If oversized, state reason
List equipment efficiencies

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

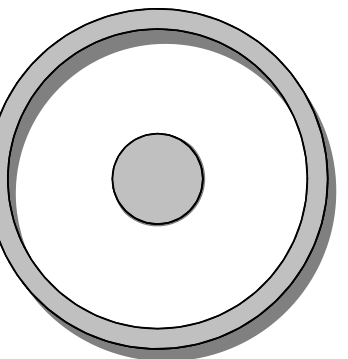
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code, ASHRAE 90.1, Prescriptive
Lighting schedule (each fixture type)
lamp type required in fixture, number of lamps in fixture, number of ballasts in fixture, total wattage per fixture, total interior wattage specified, total exterior wattage specified
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
C406.2 More Efficient HVAC Equipment Performance
C406.3 Reduced Lighting Power Density
C406.4 Enhanced Digital Lighting Controls
C406.5 On-Site Renewable Energy
C406.6 Dedicated Outdoor Air System
C406.7 Reduced Energy Use in Service Water Heating

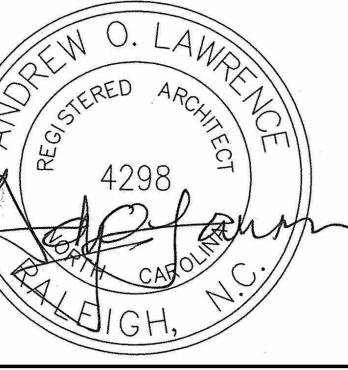
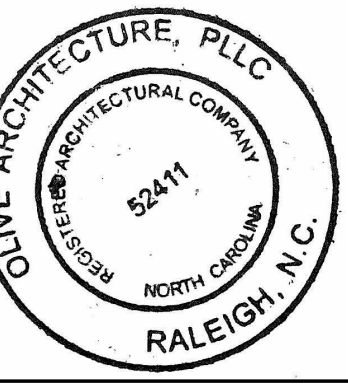
SEE STRUCTURAL DRAWING

SEE MECHANICAL DRAWING

SEE ELECTRICAL DRAWING



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GRAIN DEALERS BREWERY
100 North 13th St, Bay K Erwin, NC

issue date: Table with columns: ISSUE, NAME, DATE. Shows 06/18/2024 for BID SET and 07/22/2024 for PERMIT SET.

revisions: Table with columns: Revision, Date, Description.

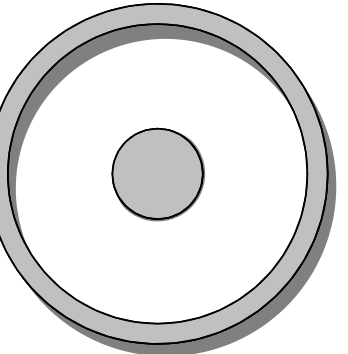
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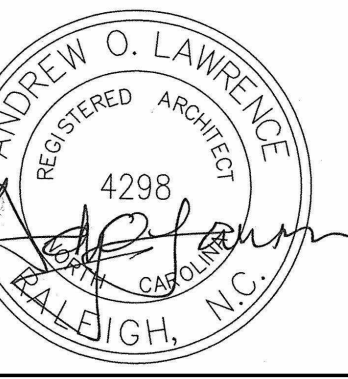
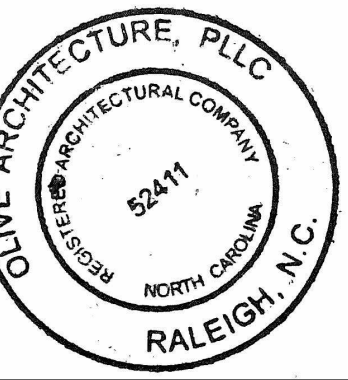
project no: 23-117

CODE SUMMARY

G001



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AOL
project no:
23-117

LIFE SAFETY

G200

DOOR RATING LEGEND

WALL RATING	DOOR RATING
1 HR	45 MIN
2 HR	90 MIN
3 HR	90 MIN
1 HR (SHAFTS & EXITS)	60 MIN
1 HR (OTHER)	45 MIN
1.5 HR	90 MIN
2 HR	90 MIN

WALL RATING LEGEND

---	30 MINUTE EXIT ACCESS CORRIDOR
----	1 HOUR FIRE PARTITION
-----	2 HOUR FIRE PARTITION
-----	1 HOUR FIRE BARRIER
-----	2 HOUR SHAFT ENCLOSURE/STRUCTURE PROTECTION
⊗	EXIT SIGN
F.E.C.	FIRE EXTINGUISHER CABINET
⚕	"STAR OF LIFE" DECAL AT ELEVATOR ENTRANCE FOR STRETCHER CAPABILITY
#	EXIT WIDTH (inches)
##	EXIT LOAD
###	EXIT CAPACITY
---	EXIT PATH

LIFE SAFETY NOTES

- ALL RATED WALLS ABOVE CEILING TILE TO BE LABELED BY STENCIL OR PLACARD INDICATING THEIR FIRE RATING.
- THIS RESTAURANT IS A TYPE IIB SPRINKLERED BUILDING.
- MAXIMUM TRAVEL LENGTH ALLOWED- 250 FEET (IBC); 200 FEET (NFPA)
- FIRE BARRIERS SHALL EXTEND FROM THE FLOOR TO THE UNDERSIDE OF THE FIRE-RESISTANCE-RATED ROOF/FLOOR/CEILING ASSEMBLY. DOORS MUST BE SELF-CLOSING.

OCCUPANT LOAD (LEVEL 100)

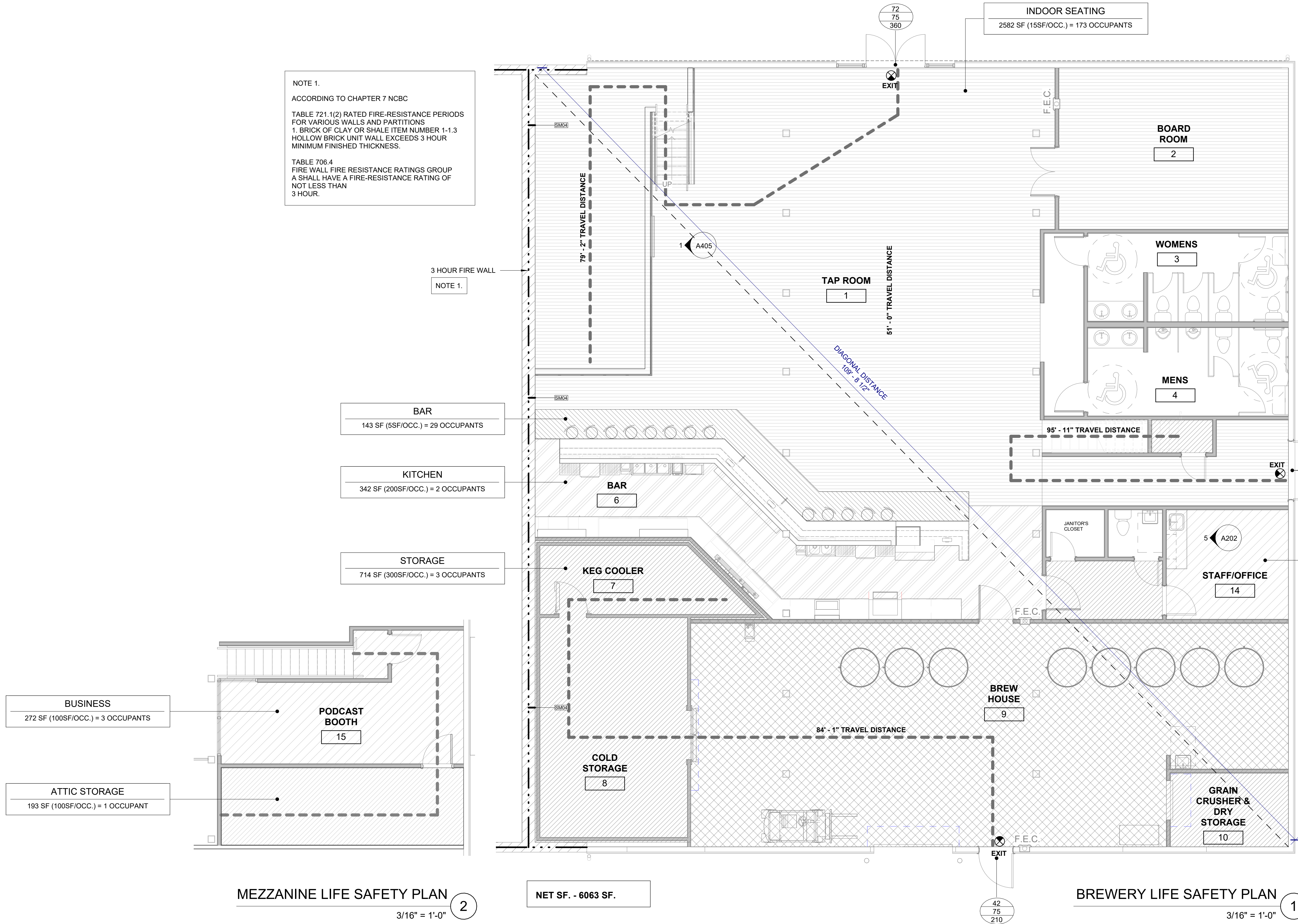
Occupancy Type	Area	Occupancy Factor	Occupant Count
TAP ROOM	2582 SF	15	173
KITCHEN	342 SF	200	2
BAR/STANDING	143 SF	5	29
INDUSTRIAL	1309 SF	100	13
STORAGE	714 SF	300	3
BUSINESS	138 SF	100	2

OCCUPANT LOAD (MEZZANINE LEVEL)

Occupancy Type	Area	Occupancy Factor	Occupant Count
BUSINESS	272 SF	100	3
STORAGE	193 SF	300	1
TOTAL			226

NOTE 1.
ACCORDING TO CHAPTER 7 NBC
TABLE 721.1(2) RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS FOR BRICK OF CLAY OR SHALE ITEM NUMBER 1-1.3 HOLLOW BRICK UNIT WALL EXCEEDS 3 HOUR MINIMUM FINISHED THICKNESS.

TABLE 706.4
FIRE WALL FIRE RESISTANCE RATINGS GROUP A SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 3 HOUR.

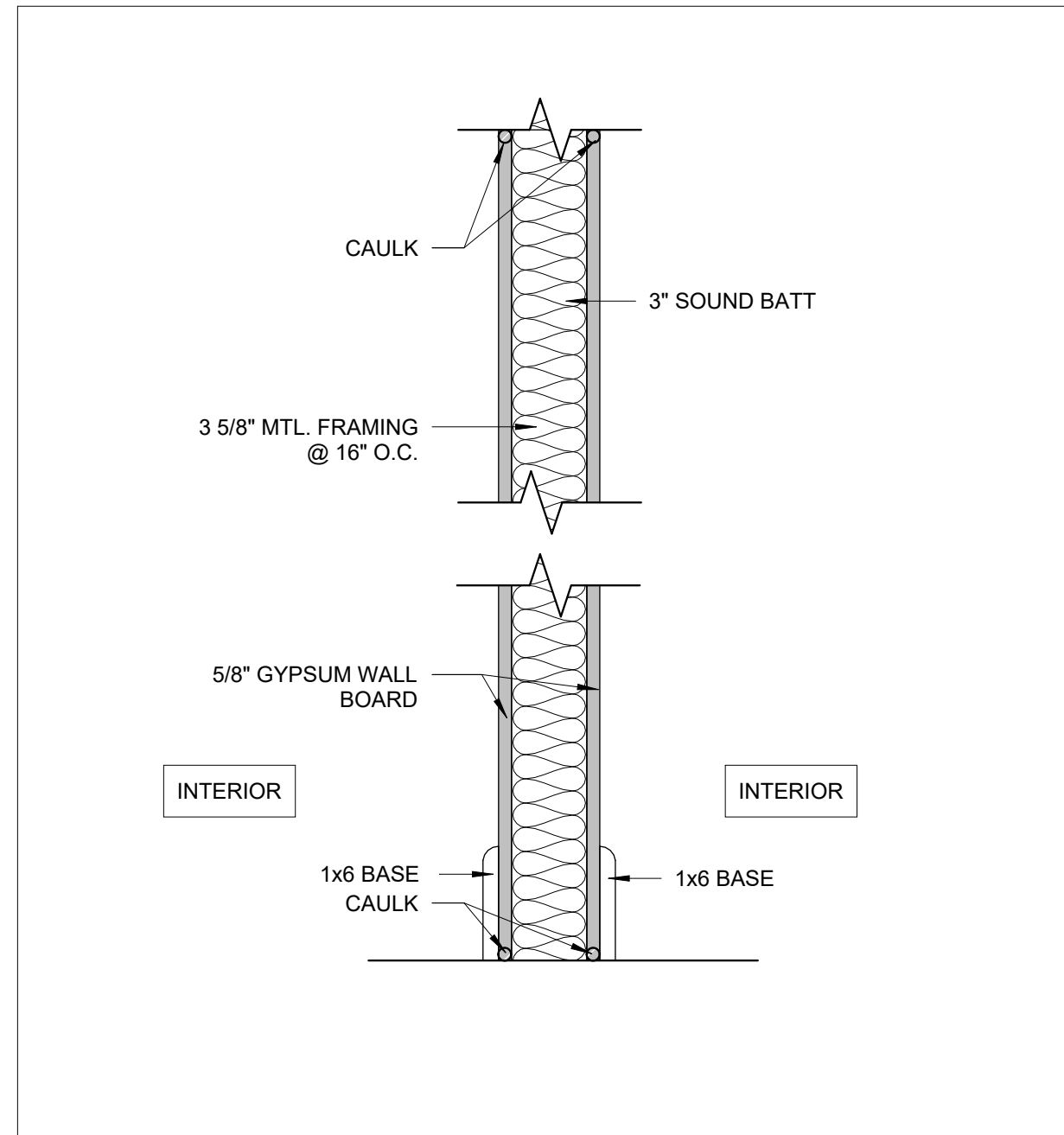
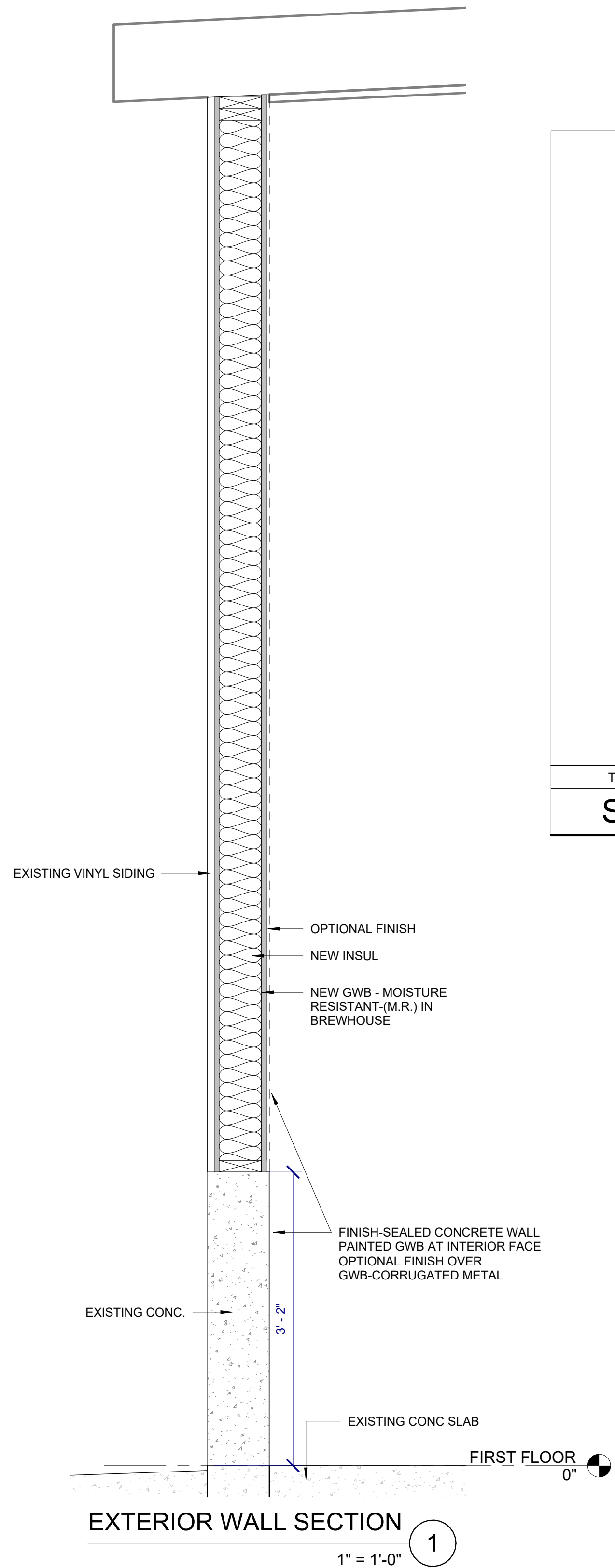


MEZZANINE LIFE SAFETY PLAN
3/16" = 1'-0" 2

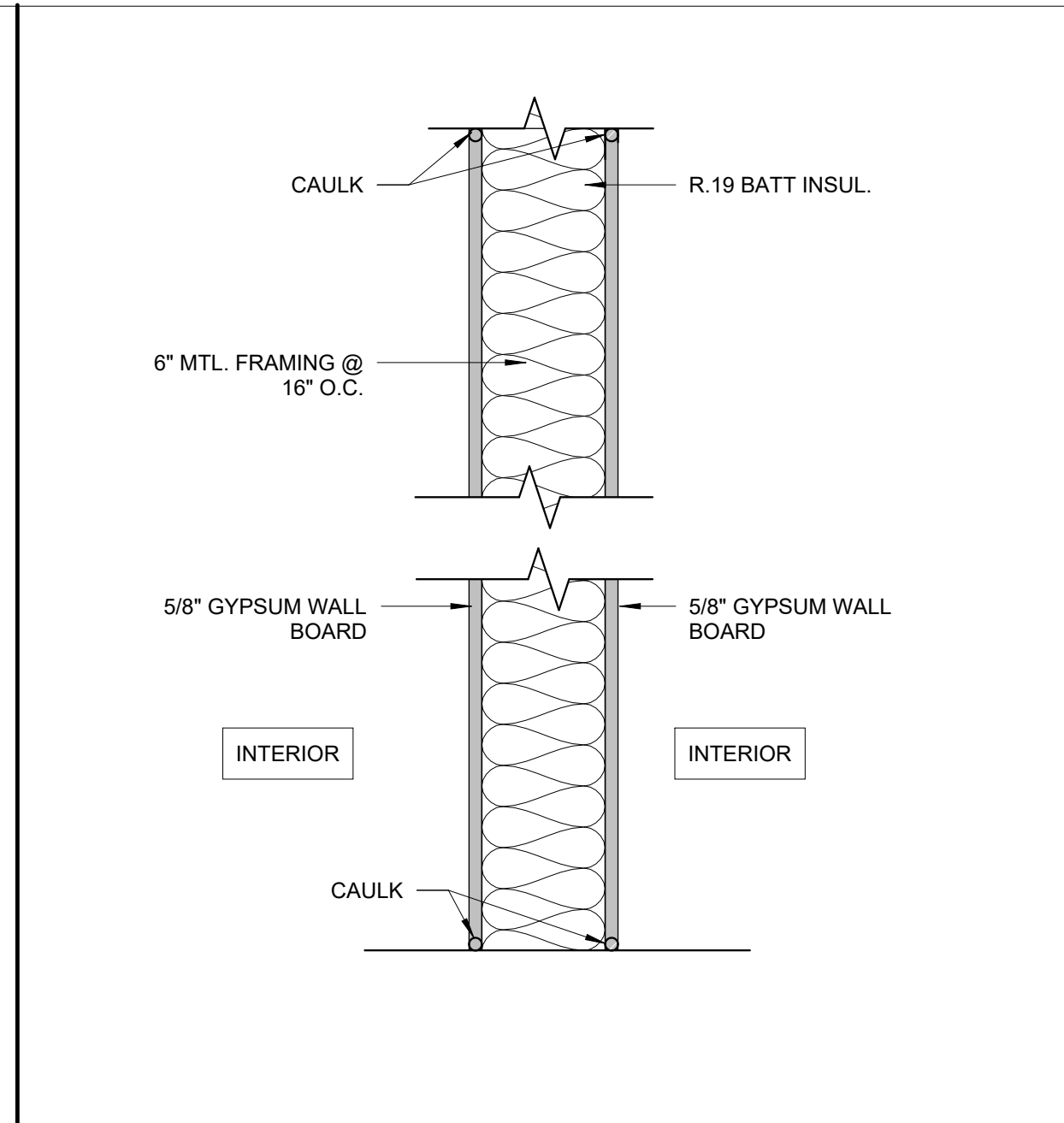
NET SF. - 6063 SF.

BREWERY LIFE SAFETY PLAN
3/16" = 1'-0" 1

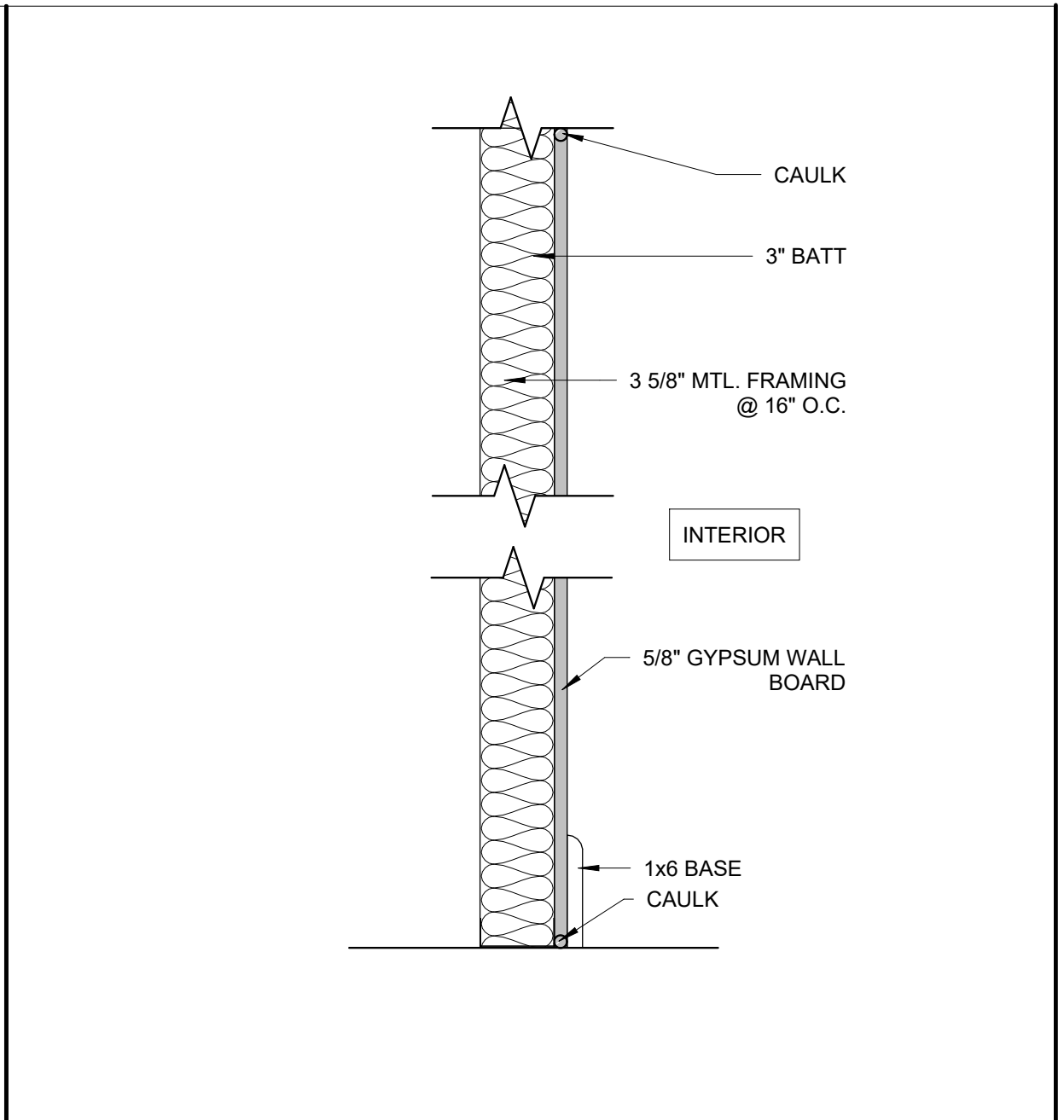
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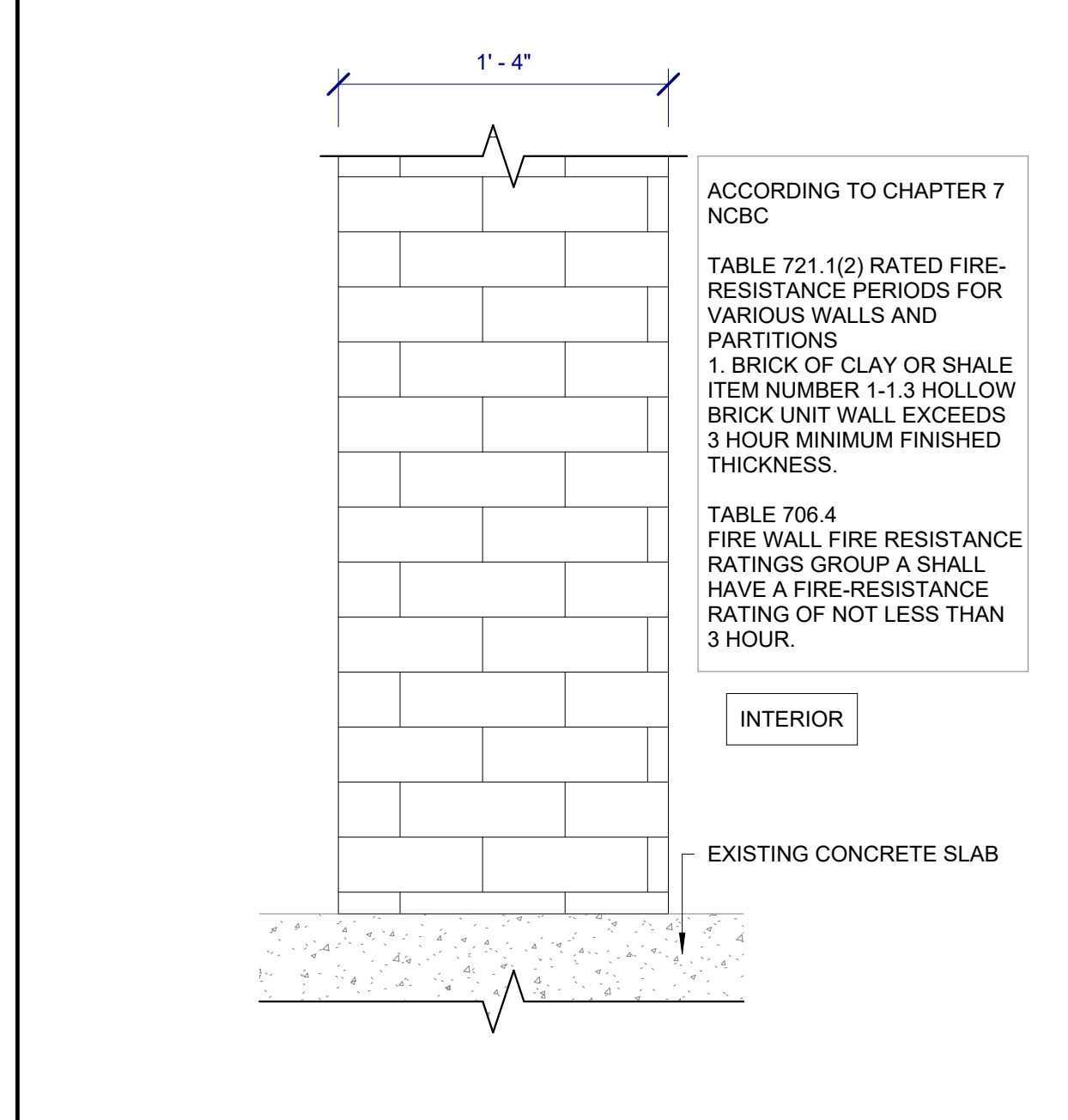
TYPE MARK	LOCATION	FIRE RATING	ASSEMBLY
SM01	INTERIOR WALL	---	---



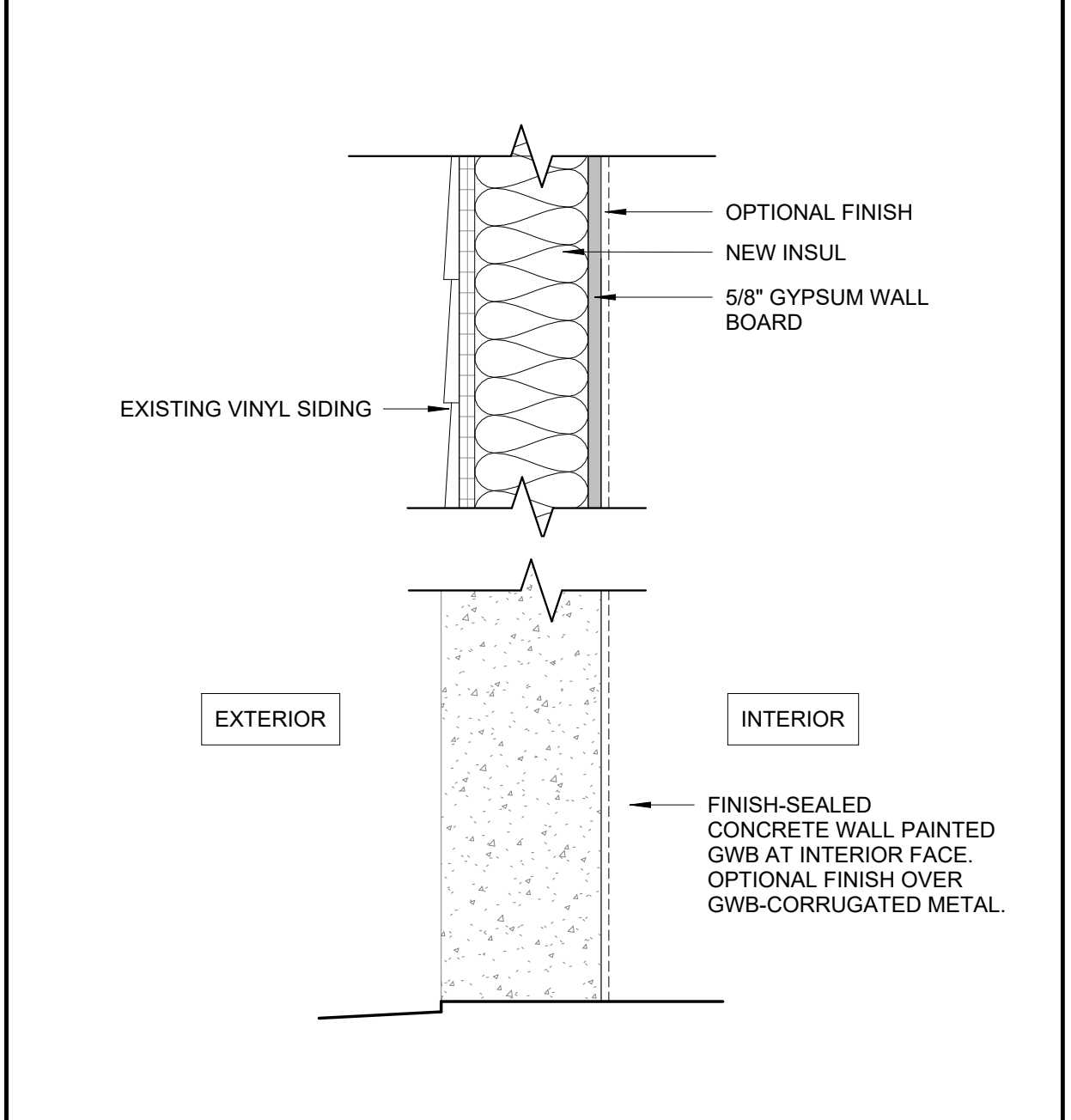
TYPE MARK	LOCATION	FIRE RATING	ASSEMBLY
SM02	INTERIOR WALL		



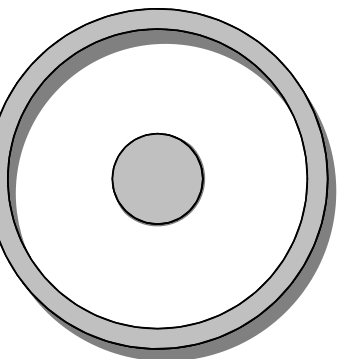
TYPE MARK	LOCATION	FIRE RATING	ASSEMBLY
SM03	INTERIOR WALL		



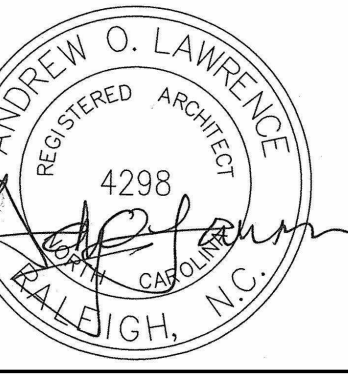
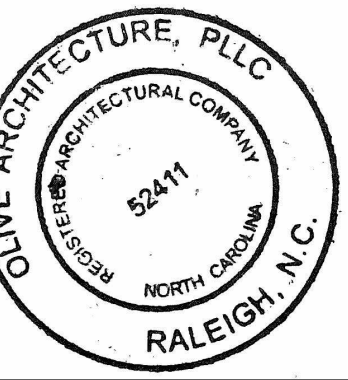
TYPE MARK	LOCATION	FIRE RATING	ASSEMBLY
SM04	FIRE WALL	3 HOUR	EXISTING MASONRY



TYPE MARK	LOCATION	FIRE RATING	ASSEMBLY
SM05	EXTERIOR WALL		



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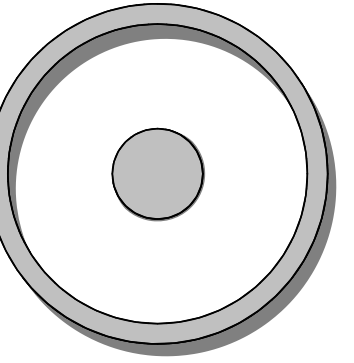
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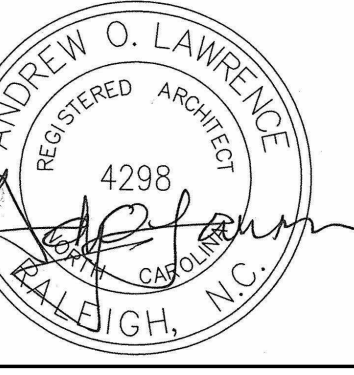
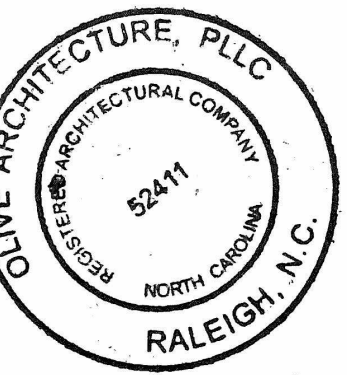
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project no:
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WALL TYPES
G300



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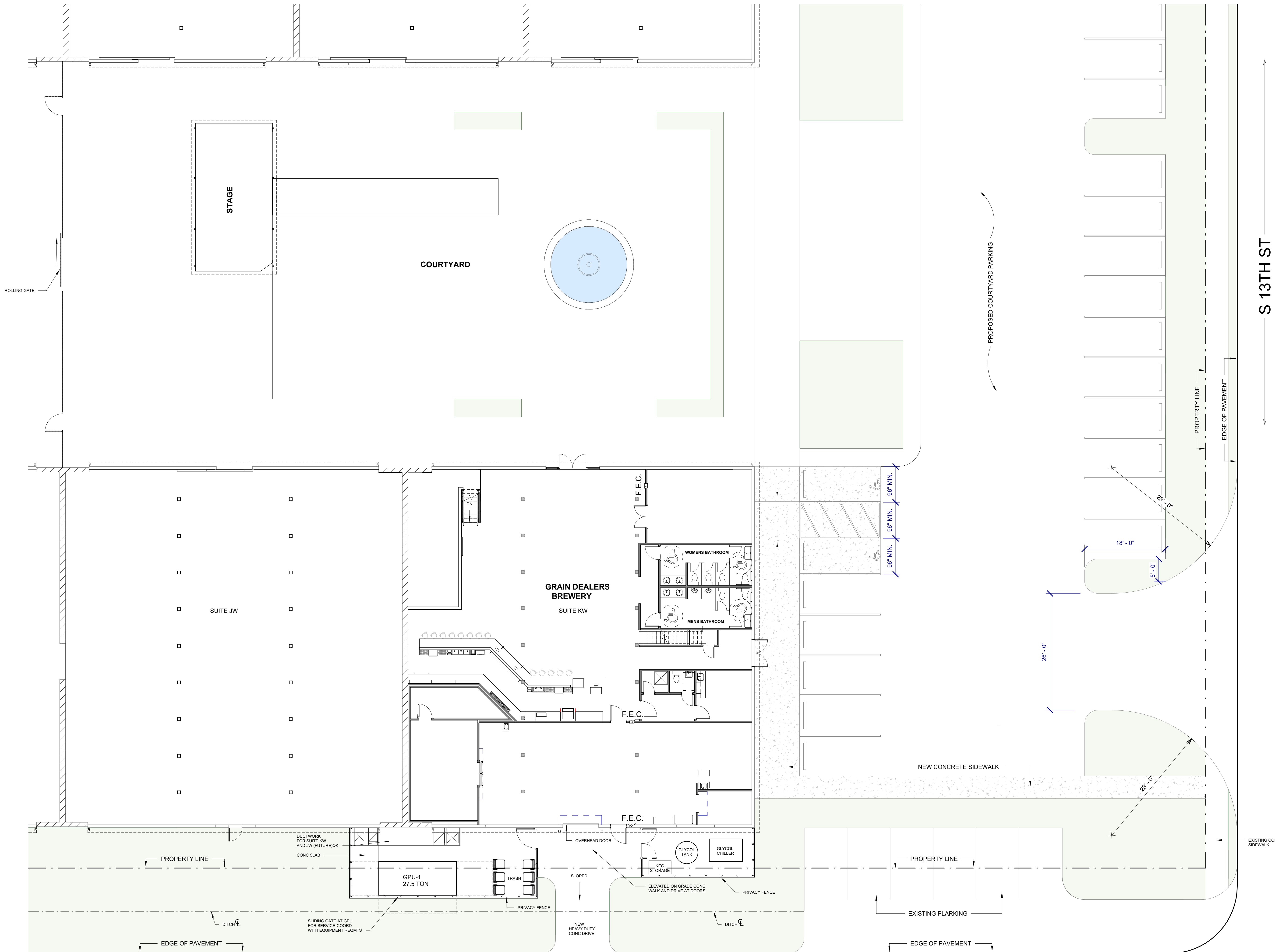
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project no:
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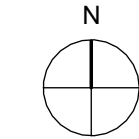
SITE PLAN - ENLARGED

A101

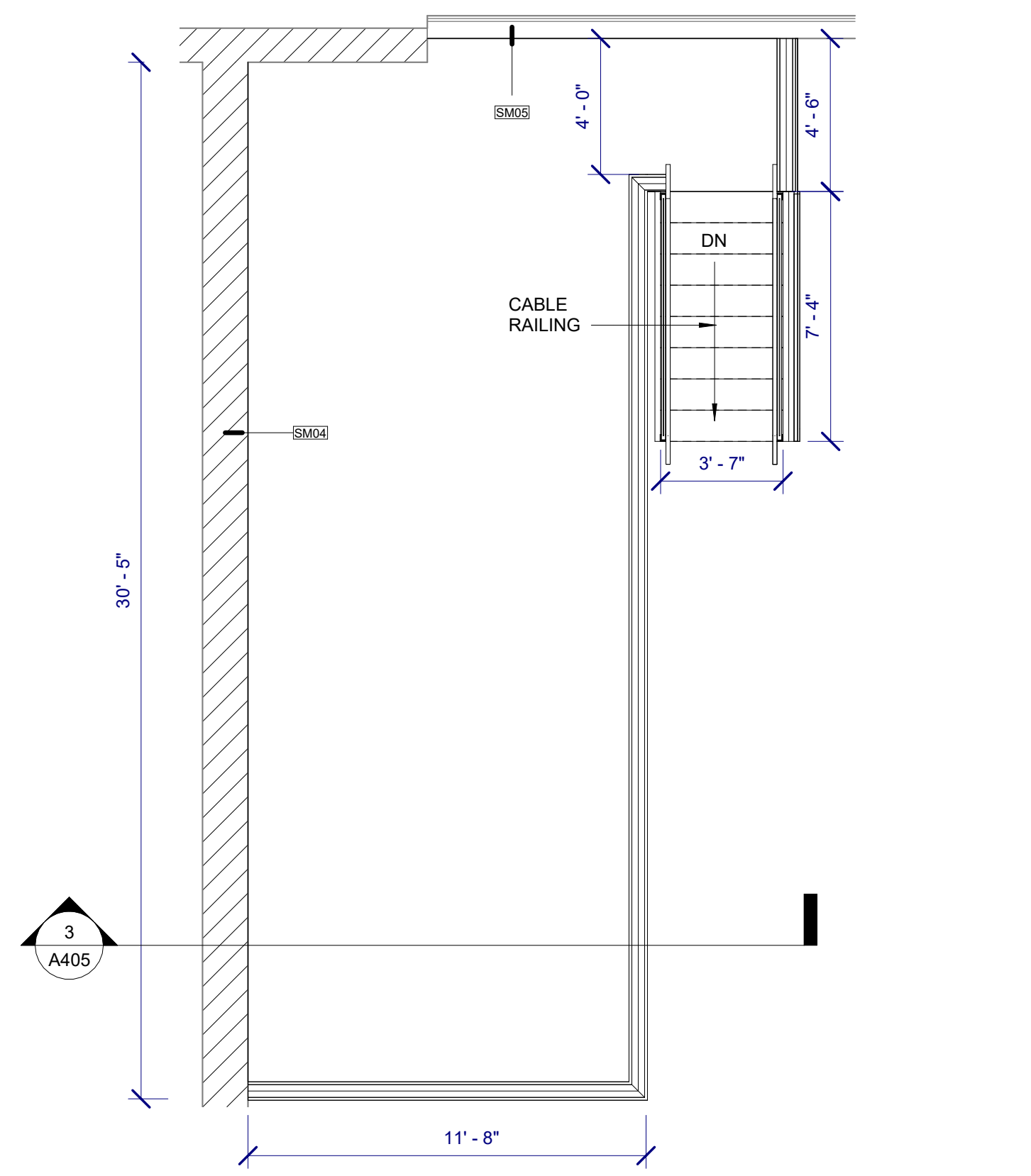
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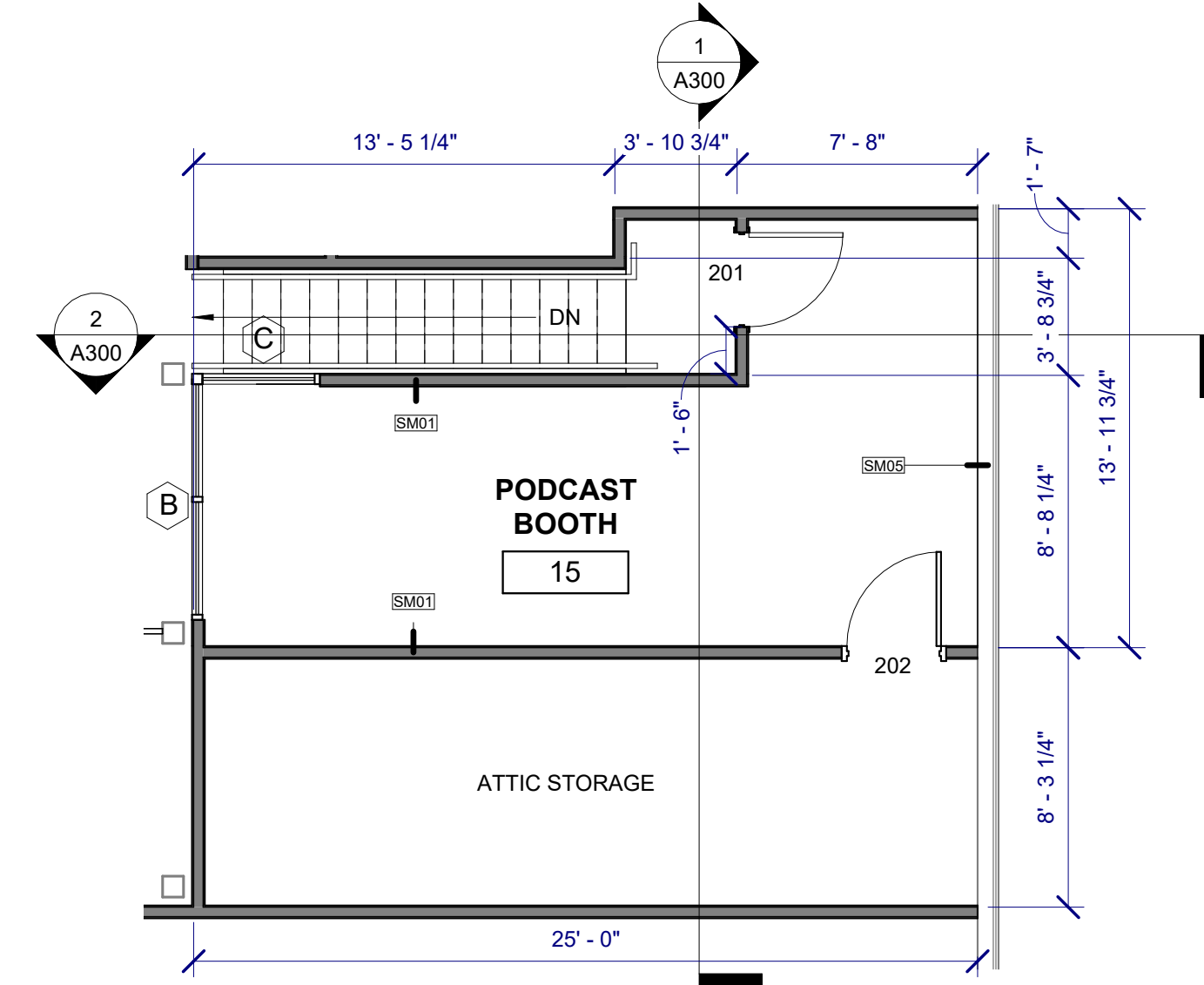
Site Plan 1
1" = 10'-0"



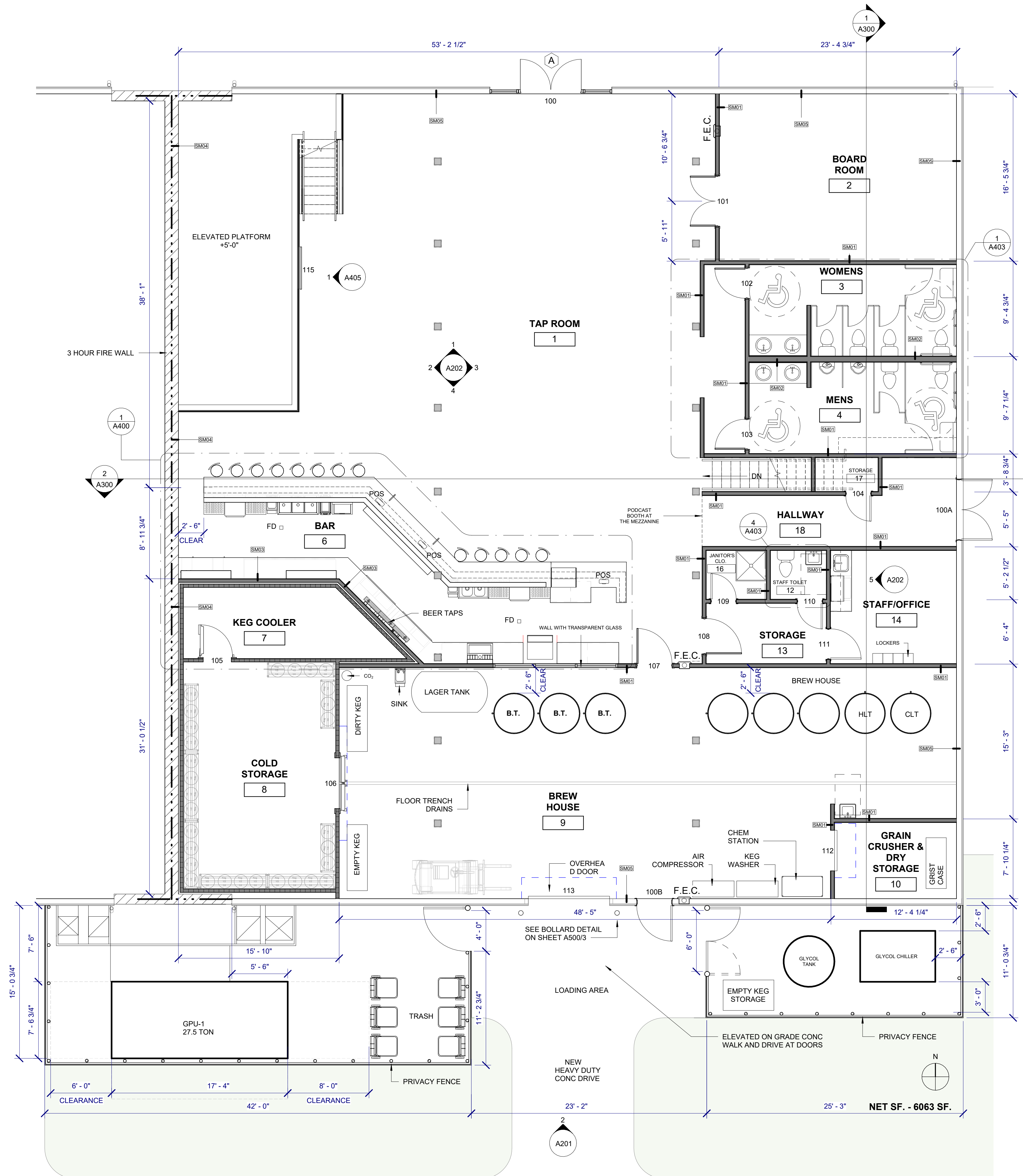
- SM01
 - SM02
 - SM03
 - SM04
EXISTING
3 HOUR FIRE WALL
 - SM05
- REFER TO SHEET G300 FOR NOTES
AND DIMENSIONS



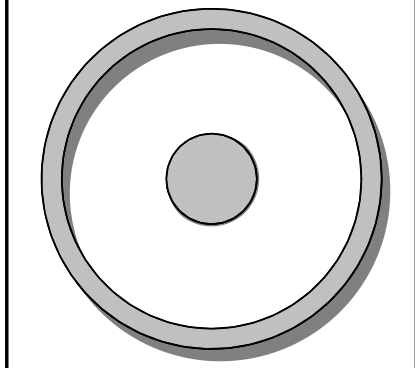
ELEVATED PLATFORM PLAN
1/4" = 1'-0"



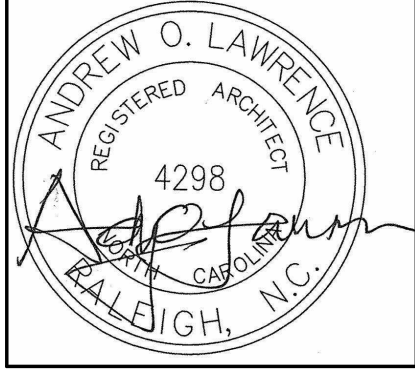
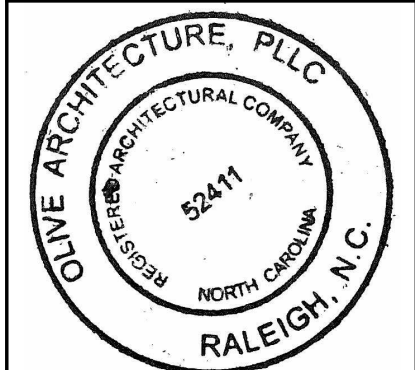
MEZZANINE FLOOR PLAN
3/16" = 1'-0"



BREWERY FLOOR PLAN
3/16" = 1'-0"



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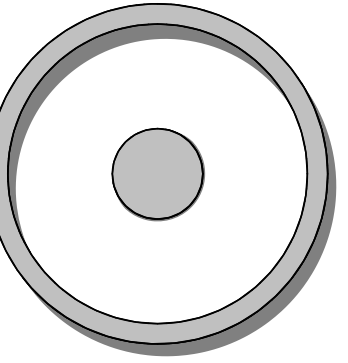
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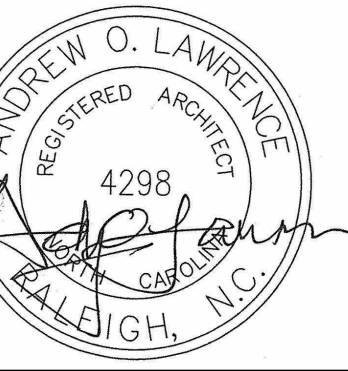
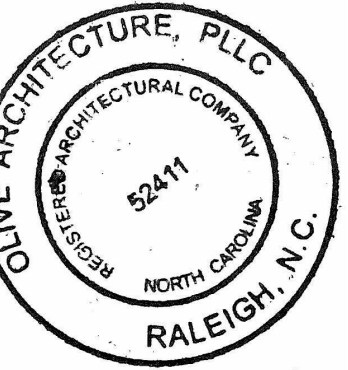
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project no:
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FLOOR PLAN
A111
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DEMO PLAN

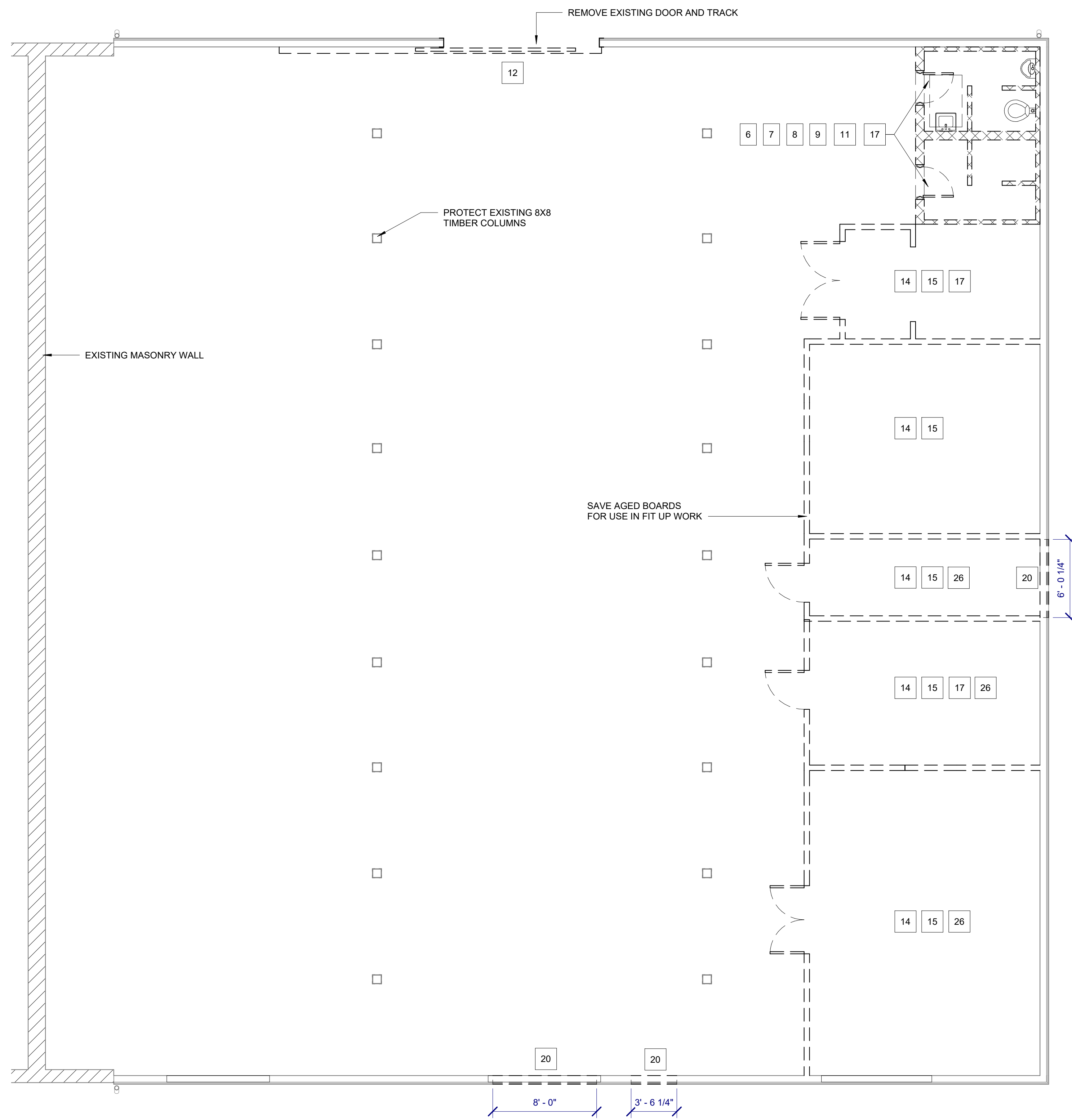
A112

- DEMOLITION NOTES**
- 1 • REFER TO LANDLORDS SCOPE OF WORK REQUIREMENTS
 - 2 • ALL EXISTING FLOORING TO BE REMOVED - EXISTING CONCRETE SLAB TO BE PREPARED FOR NEW FLOORING.
 - 3 • EXISTING SPRINKLER SYSTEM TO REMAIN AND BE MODIFIED TO ACCOMMODATE NEW CEILING LAYOUT - SUBMIT ENGINEER SIGNED AND SEALED FIRE SPRINKLER DRAWINGS FOR REVIEW AND APPROVAL AND FOR SEPARATE PERMIT.
 - 4 • DURING DEMOLITION OF INTERIOR SPACE CONTRACTOR TO CONFIRM ANY EXISTING PIPING, CONDUIT, SPRINKLER LINES, ETC THAT IS ABOVE CEILING AREA THAT WILL NEED TO BE RELOCATED OR REMOVED TO ACCOMMODATE NEW SPACE DESIGN REQUIREMENTS AND NOTIFY OWNERS SITE REPRESENTATIVE PRIOR TO PROCEEDING.
 - 5 • EXISTING FIRE ALARM SYSTEM REUSED AND MODIFIED REFER TO ELECTRICAL DRAWINGS REMOVE ALL EXISTING FIRE ALARM DEVICES AND ASSOCIATED CONDUIT, BOXES, WIRE, ETC. COMPLETE BACK TO SOURCE (UNLESS NOTED OTHERWISE).
 - 6 • CAP AND PLUG ALL UNUSED / ABANDONED WATER AND SANITARY LINES BELOW SLAB.
 - 7 • PLUMBING / GAS DEMO: TO COMPLY WITH CURRENT NORTH CAROLINA PLUMBING AND FUEL GAS CODES SECTION 7045 & DEFINITIONS
 1. ALL DELETED PIPING SHALL BE PROPERLY CAPPED / PLUGGED WITH LIKE MATERIAL TEST CAPS ARE NOT ACCEPTABLE
 2. SANITARY LINES SHALL BE TERMINATED SO AS TO NOT CREATE "DEAD ENDS".
 3. ALL DELETED / CAPPED PIPING SHALL BE INSPECTED BY THE PLUMBING / GAS INSPECTOR BEFORE CONCEALMENT.
 4. DEMOLISH AND REMOVE ALL POTABLE WATER ABOVE GROUND AND VENT PIPING SERVING THE TENANT SPACES TO CREATE A SHELL CONDITION, CAP MAIN POTABLE WATER PIPING AT THE TENANT SEPARATION WALL, OR NEAREST VALVE IN THIS LOCATION.

A. DEMOLISH AND REMOVE ALL EXISTING & UNUSED FLOOR DRAINS. CAP AND SEAL AIRTIGHT. COVER WITH FINISH MATCHING EXISTING FLOOR FINISH AS DIRECTED BY OWNER.
 - 8 • REMOVE EXISTING SINKS, AND WATER HEATERS.
 - 9 • REMOVE ALL UNUSED SANITARY / WATER STUB UPS.
 - 10 • EXISTING GAS LINE TO REMAIN SEE ENG DWGS.
 - 11 • REMOVE EXISTING RESTROOMS TO THEIR EXTENTS.
 - 12 • REMOVE EXISTING STOREFRONT DOOR OPENING, ROLL UP DOOR OPENING REFER TO DOOR SCHEDULE FOR NEW DOOR AND FRAME.
 - 13 • REMOVE ALL EXISTING MILLWORK.
 - 14 • REMOVE ALL EXISTING INTERIOR DRYWALL PARTITION WALLS INDICATED TO THEIR EXTENTS.
 - 15 • REMOVE INTERIOR DOORS AND FRAMES.
 - 16 • REMOVE EXISTING WALL LOUVERS OPENINGS TO BE FILLED IN TO MATCH ADJACENT WALL CONSTRUCTION.
 - 17 • REMOVE ALL EXISTING CEILING TILES AND GRID INCLUDING ALL DRYWALL CEILING SOFFIT AND DROP CEILINGS.
 - 18 • REMOVE ALL EXISTING PERIMETER WALL FINISHES.
 - 19 • REMOVE AND RELOCATE EXISTING LANDLORD LOCK BOX COORDINATE LOCATION WITH LANDLORD.
 - 20 • REMOVE SECTION OF WALL TO ACCOMMODATE DOOR OPENING.
 - 21 • DEMOLISH AND REMOVE ALL EXHAUST AND OUTSIDE DUCTWORK, STRAPS, HANGERS AND SUPPORTS THROUGHOUT THE SPACE. REMOVE EXISTING ASSOCIATED LOUVERS, PROVIDE INFILL TO MATCH AND PRIME AND PAINT TO MATCH EXISTING COLOR AT OWNERS DIRECTION, ALTERNATELY BLANK OFF LOUVERS WITH INSULATED GALVANIZED STEEL SHEET METAL FOR FUTURE USE AND SEAL AIR AND WATER TIGHT.
 - 22 • REMOVE DIFFUSERS AND DUCTWORK WHERE NOTED ON MECH DWGS.
 - 23 • REMOVE ALL EXISTING RECEPTACLES / POWER CONNECTIONS TO EQUIPMENT AND ASSOCIATED CONDUIT, BOXES, WIRE, ETC. COMPLETE BACK TO SOURCE (UNLESS NOTED OTHERWISE).
 - 24 • REMOVE ALL EXISTING TELECOM / DATA / SOUND SYSTEM DEVICES AND ASSOCIATED CONDUIT, BOXES, CABLING, ETC. COMPLETE BACK TO SOURCE (UNLESS NOTED OTHERWISE).
 - 25 • REMOVE EXISTING ELECTRICAL FLOOR OUTLETS PATCH AND REPAIR SLAB.
 - 26 • REMOVE ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONDUIT, BOXES, WIRE, ETC BACK TO SOURCE (UNLESS NOTED OTHERWISE).
 - 27 • ALL POWER SYSTEMS AND LIGHTING CIRCUITS ASSOCIATED WITH LOCATIONS OUTSIDE THE AREA OF DEMOLITION ARE TO REMAIN ACTIVE. REWORK EXISTING ELECTRICAL IN ORDER TO MAINTAIN CONTINUITY FOR THESE CIRCUITS / SYSTEMS AS REQUIRED.
 - 28 • REMOVE EXISTING STOREFRONT / GLASS.
 - 29 • BARRIERS: PROVIDE BARRIERS TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREAS, TO ALLOW OWNERS USE OF SITE AND PREMISES, AND TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM CONSTRUCTION OPERATIONS.

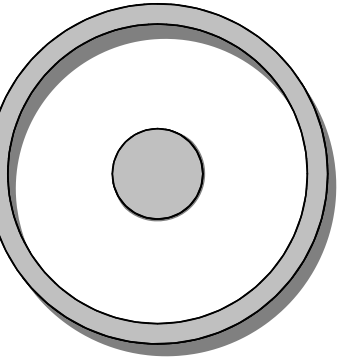
A. PROVIDE TEMPORARY FENCING FOR CONSTRUCTION OPERATIONS

 - PROTECT CONSTRUCTION OPERATIONS, MATERIALS AND EQUIPMENT.
 - PROVIDE VEHICULAR AND PEDESTRIAN GATES AS REQUIRED

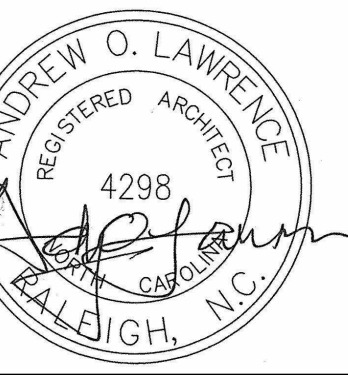
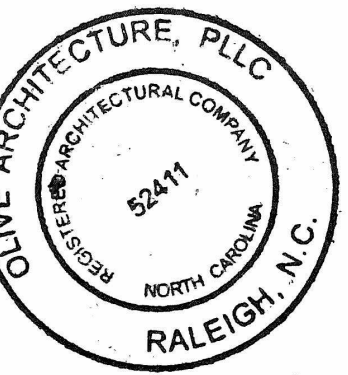


DEMO PLAN 1
3/16" = 1'-0"

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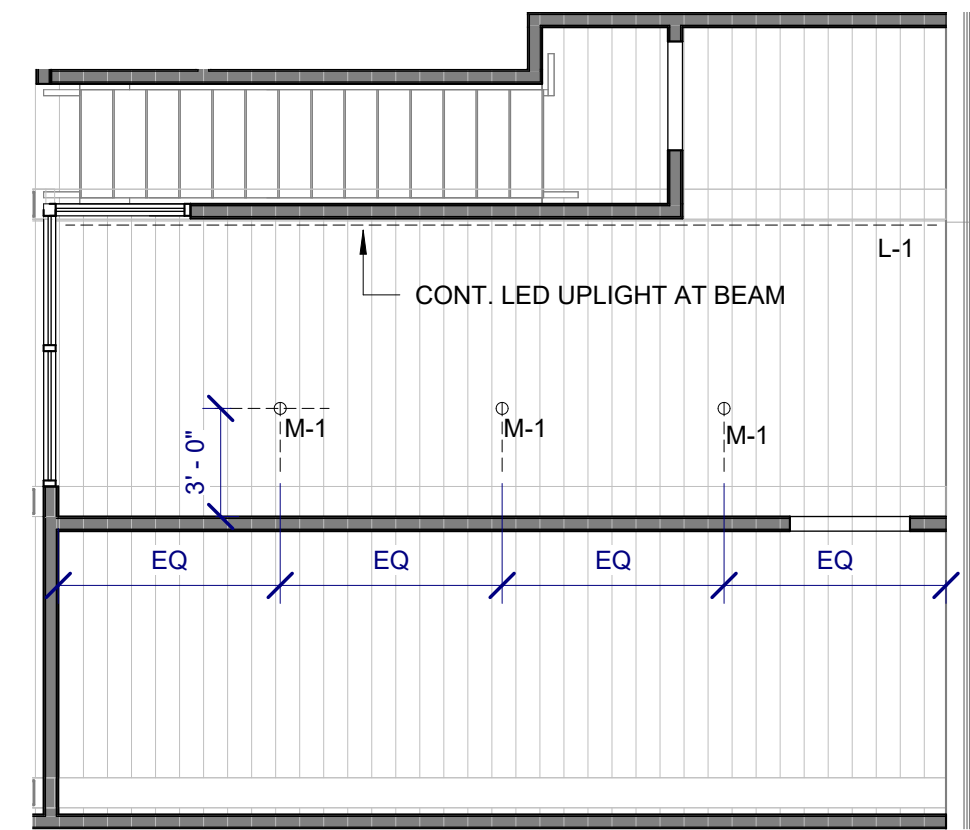
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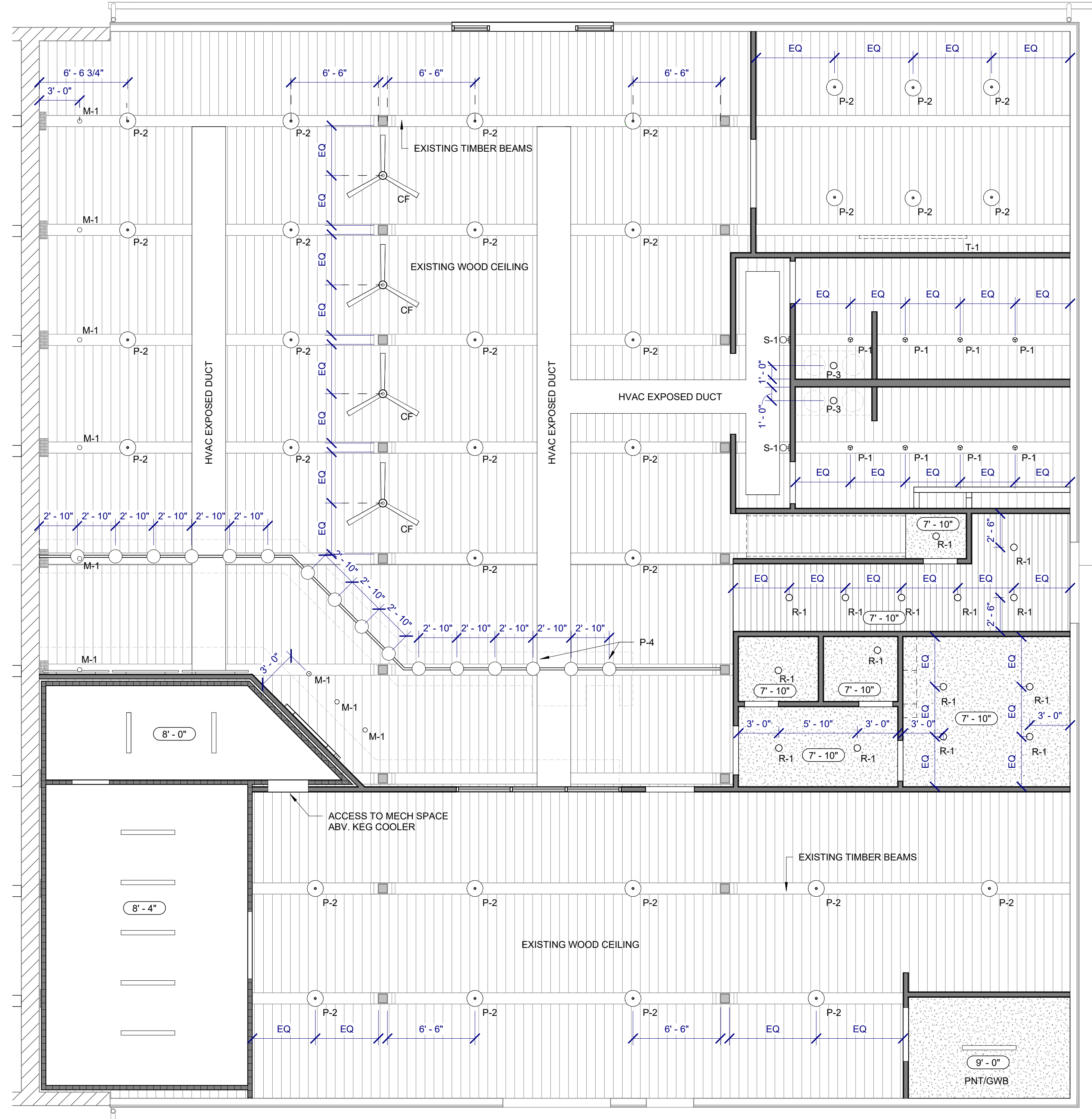
REFLECTED CEILING PLAN

A113

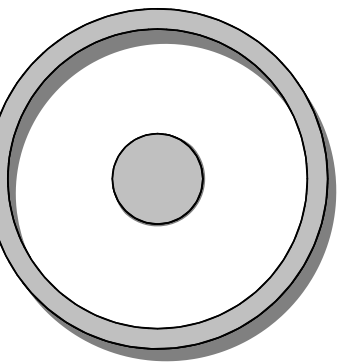
CEILING FIXTURE LEGEND		
SYMBOL	MARK	DESCRIPTION
○	R-1	6" RECESSED DL
○	M-1	MONOPOINT SPOT LIGHT
⊙	P-1	DROP FIXTURE
⊙	P-2	PENDANT LIGHT
⊙	P-3	PENDANT LIGHT
○	P-4	PENDANT LIGHT
⊙	S-1	INTERIOR WALL SCNCE
⊗	SM-1	SURFACE MTD 2x2 LED
○	W-1	WALL WASH LIGHTS
▭	X-1	COOLER FIXTURE
⋯	T-1	TRACK LIGHTING
⋯	L-1	CONT. LED UPLIGHT
CF	CF	CEILING FAN



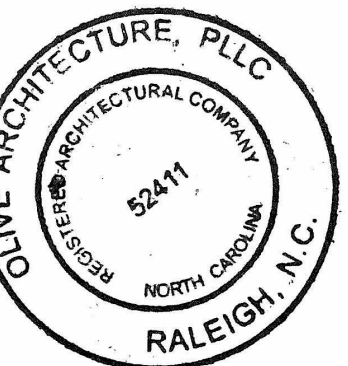
MEZZANINE RCP
3/16" = 1'-0" 3



RCP
3/16" = 1'-0" 1



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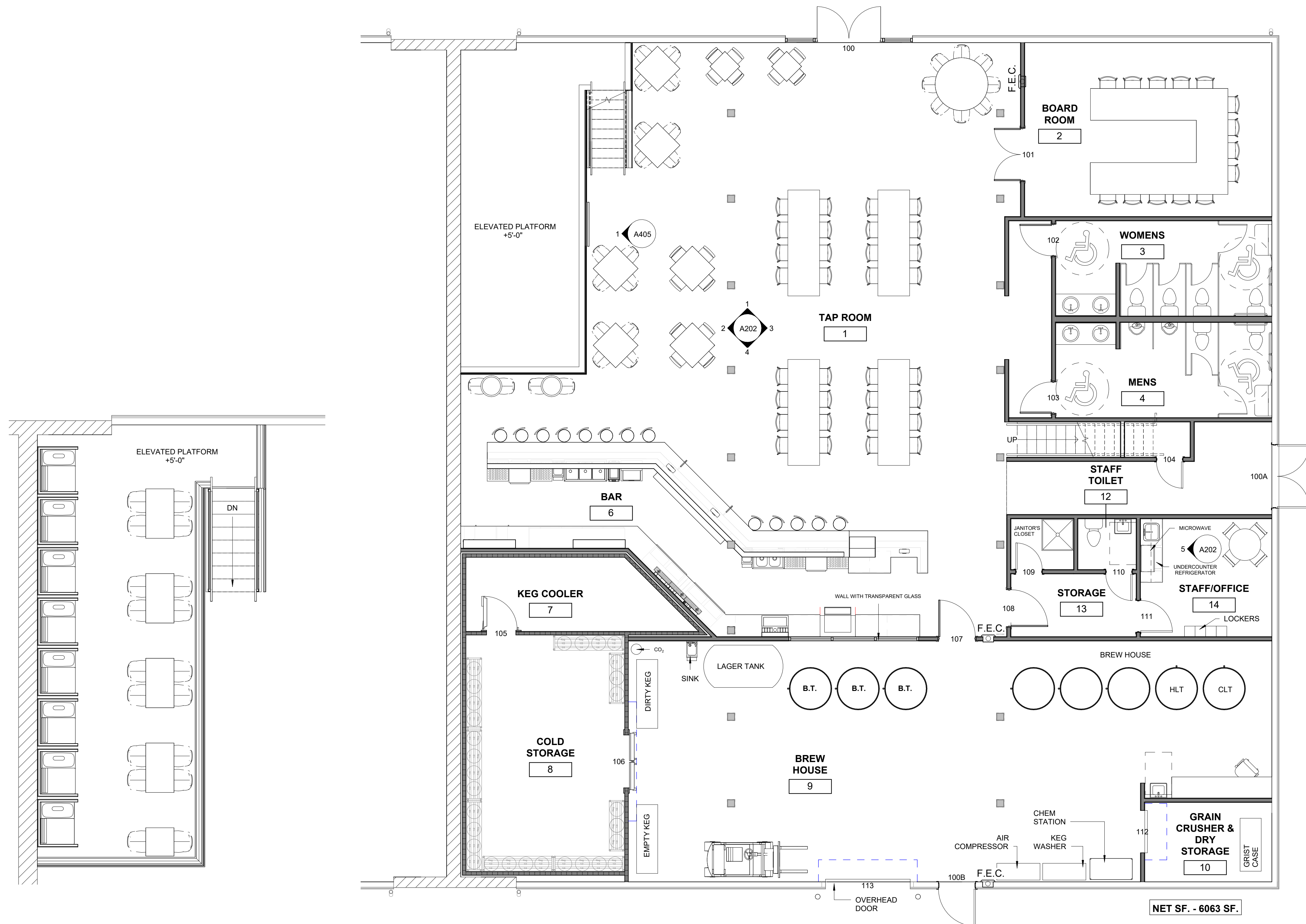
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FURNITURE PLAN

A114

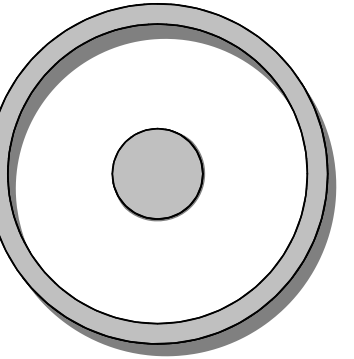
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FURNITURE PLAN
1/4" = 1'-0" 2

FURNITURE PLAN
3/16" = 1'-0" 1

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FINISH PLAN

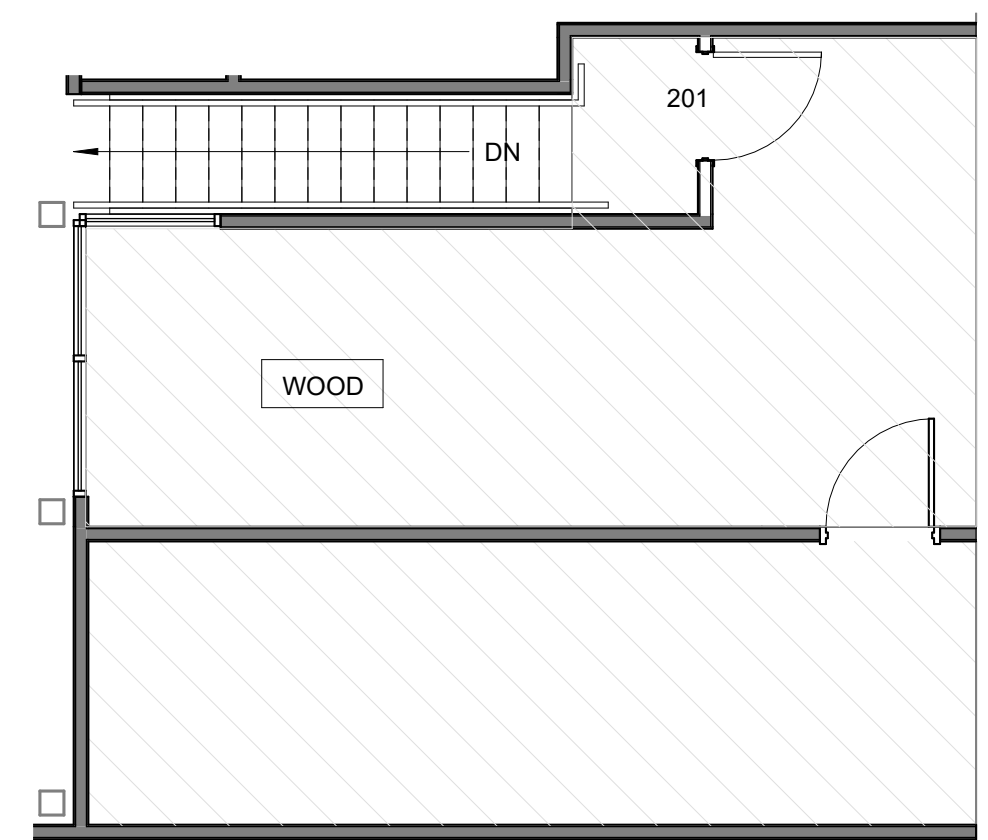
A115

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FLOOR FINISH:		BASE FINISH:	
CONC -	STEEL TROWEL SMOOTH FINISH W/ EPOXY SEALER	VINYL -	4" ROLL VINYL BASE, COLOR PER ID OFFICE SELECTION
VCT -	VINYL COMPOSITION TILE, SIZE AND COLOR PER ID OFFICE SELECTION	VINYL 1 -	LUXURY VINYL PLANK
CT -	CERAMIC TILE, SIZE AND COLOR PER ID OFFICE SELECTION	CT -	CERAMIC TILE COLOR & LENGTH TO MATCH FLOOR TILE, HEIGHT PER BRAND SPEC, COVE BASE IN "FIID SERVICE AREAS"
PT -	PORCELAIN TILE, SIZE AND COLOR PER ID OFFICE SELECTION	QT -	QUARRY TILE, 6x6 RED COMMERCIAL KITCHEN TILE, COVE BASE
QT -	QUARRY TILE, 6x6 RED COMMERCIAL KITCHEN TILE	CPT -	BOUND CARPET BASE, SIZE & COLOR PER ID OFFICE SELECTION
EPOXY -	TYPICAL GARAGE PAINTABLE SYSTEM	VCB -	VINYL COVE BASE
LVP -	LUXURY VINYL PLANK		

WALL FINISH:		CEILING FINISH:	
PNT -	PAINT, COLOR AND FINISH PER ID OFFICE SELECTION	PNT -	PAINT EXISTING STRUCTURE
VWC -	VINYL WALL COVERING, SIZE & WEIGHT PER ID OFFICE SELECTION	PNT/GWB -	PAINT OVER GYPBOARD, COLOR & FINISH PER ID
KNDWN -	100% ACRYLIC KNOCKDOWN, COLOR PER ID OFFICE SELECTION	ACT -	ACOUSTICAL CEILING TILE
FRP -	FIBERGLASS REINFORCED PANELS, WHITE WITH WHITE TRIM	VF-ACT -	2x4 VINYL FACED ACT ON 15/16" ALUMINUM
CT -	CERAMIC TILE, MATCH FLOOR TILE ON PLUMBING BACK WALL TO CEILING	GRID -	HEALTH DEPT. APPROVAL REQ'D
PT -	PORCELAIN TILE, MATCH FLOOR TILE ON PLUMBING BACK WALL TO CEILING		
PNT/GWB -	PAINT OVER GYPBOARD, COLOR & FINISH		

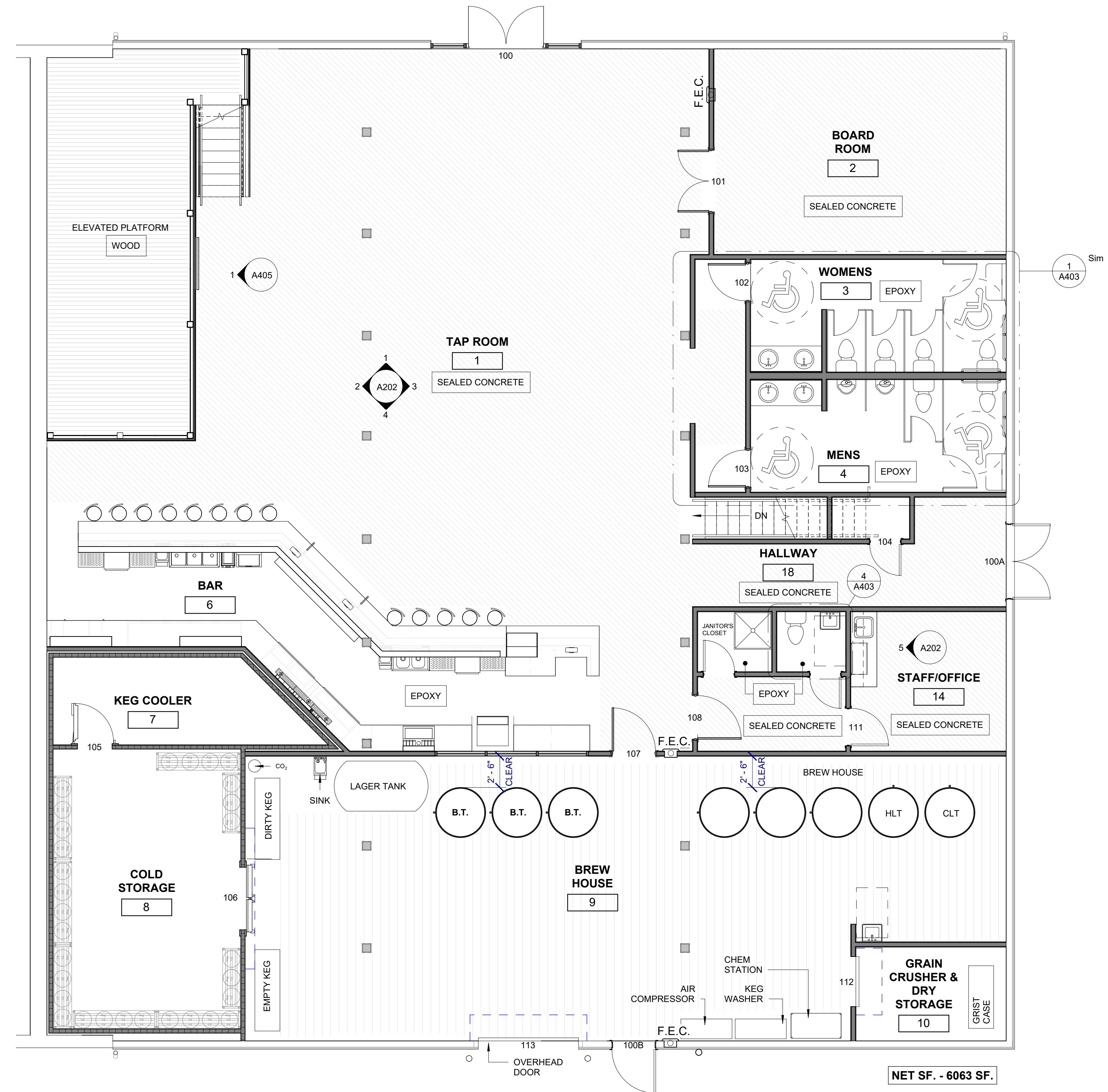
Finish Schedule						
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
FIRST FLOOR						
1	TAP ROOM	SEALED CONCRETE	WOOD BASE	BRICK & PNT/GWB	EXISTING CEILING	
2	BOARD ROOM	SEALED CONCRETE	WOOD BASE	PNT/GWB	EXISTING CEILING	
3	WOMENS	EPOXY	COVE METAL SCHLUTER	TILE	EXISTING CEILING	SCHLUTER TILE EDGING, 1/4TH INCH HIGH MAX.
4	MENS	EPOXY	COVE METAL SCHLUTER	TILE	EXISTING CEILING	SCHLUTER TILE EDGING, 1/4TH INCH HIGH MAX.
6	BAR	EPOXY	WOOD BASE	PNT/GWB	EXISTING CEILING	
7	KEG COOLER			MTL	MTL	
8	COLD STORAGE			MTL	MTL	
9	BREW HOUSE	SEALED CONCRETE	VINYL BASE	PNT/GWB	EXISTING CEILING	
10	GRAIN CRUSHER & DRY STORAGE	SEALED CONCRETE	WOOD BASE	PNT/GWB	PNT/GWB	
12	STAFF TOILET	EPOXY	COVE METAL SCHLUTER	TILE	PNT/GWB	SCHLUTER TILE EDGING, 1/4TH INCH HIGH MAX.
13	STORAGE	SEALED CONCRETE	WOOD BASE	PNT/GWB	PNT/GWB	
14	STAFF/OFFICE	SEALED CONCRETE	WOOD BASE	PNT/GWB	PNT/GWB	
16	JANITOR'S	EPOXY	COVE METAL SCHLUTER	PNT/GWB	PNT/GWB	
17	STORAGE	SEALED CONCRETE	WOOD BASE	PNT/GWB	PNT/GWB	
18	HALLWAY	SEALED CONCRETE	WOOD BASE	PNT/GWB	BOARD CEILING	
LEVEL 101						
15	PODCAST BOOTH	WOOD	WOOD BASE	PNT/GWB	EXISTING CEILING	



MEZZANINE FLOOR FINISH PLAN

3/16" = 1'-0"

3

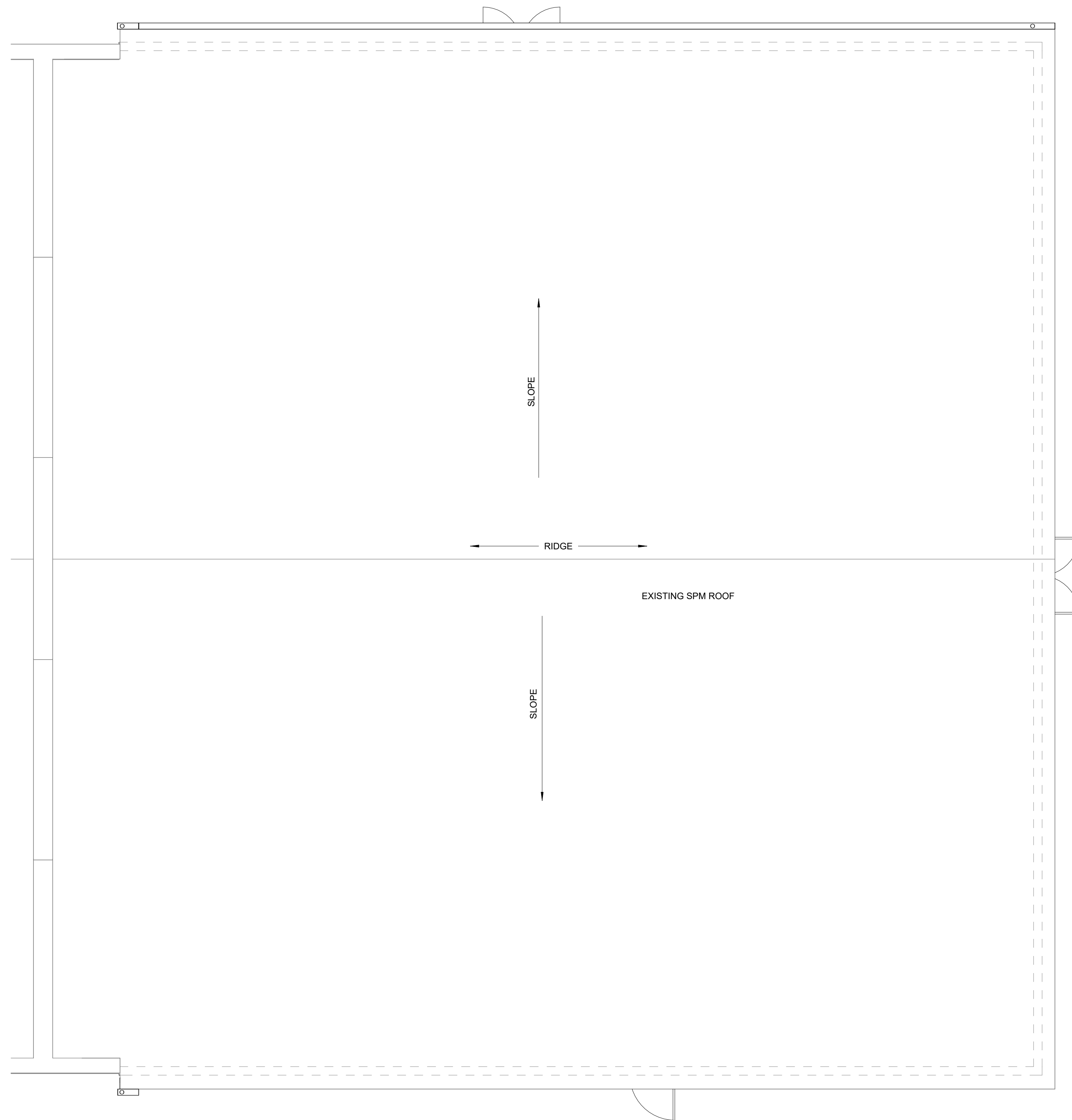


NET SF. - 6063 SF.

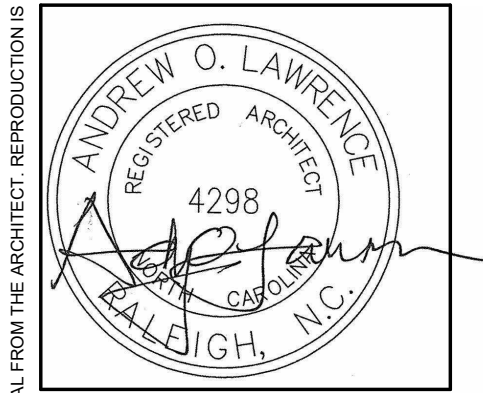
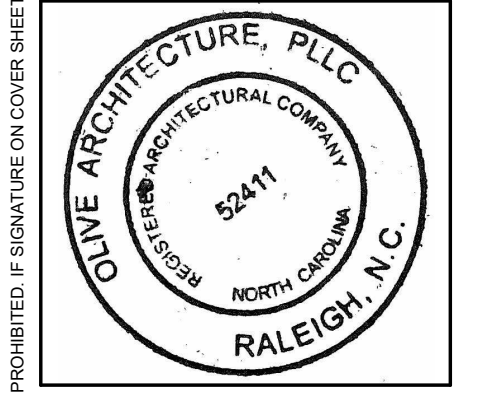
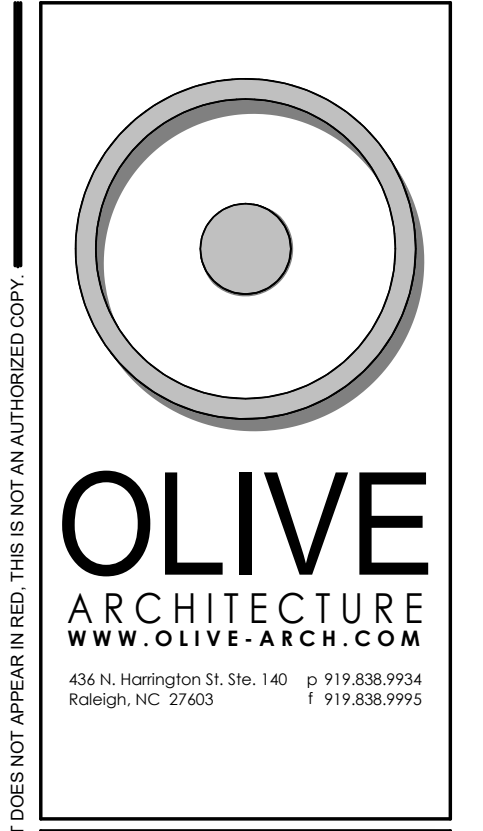
FINISH PLAN

3/16" = 1'-0"

1



ROOF PLAN 1
3/16" = 1'-0"



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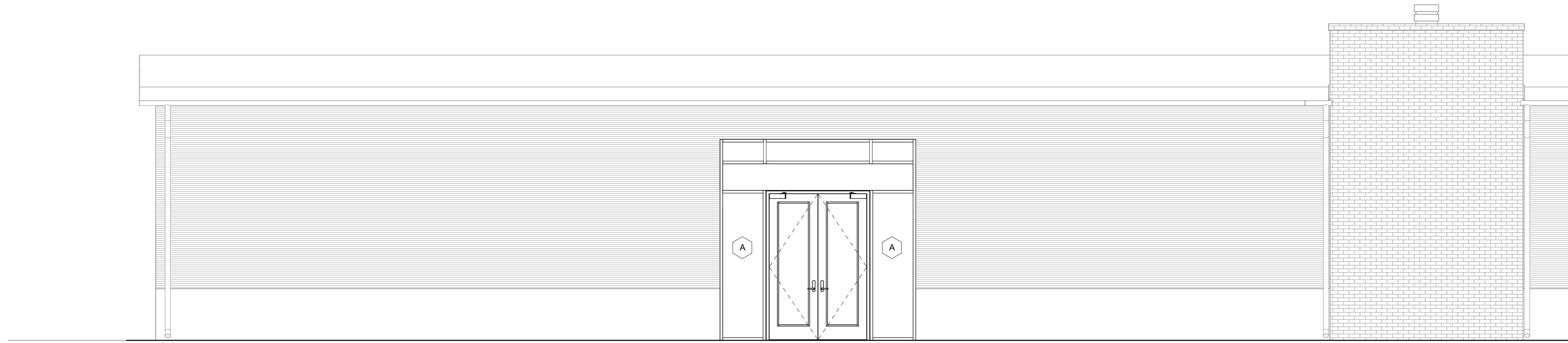
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ROOF PLAN
A130

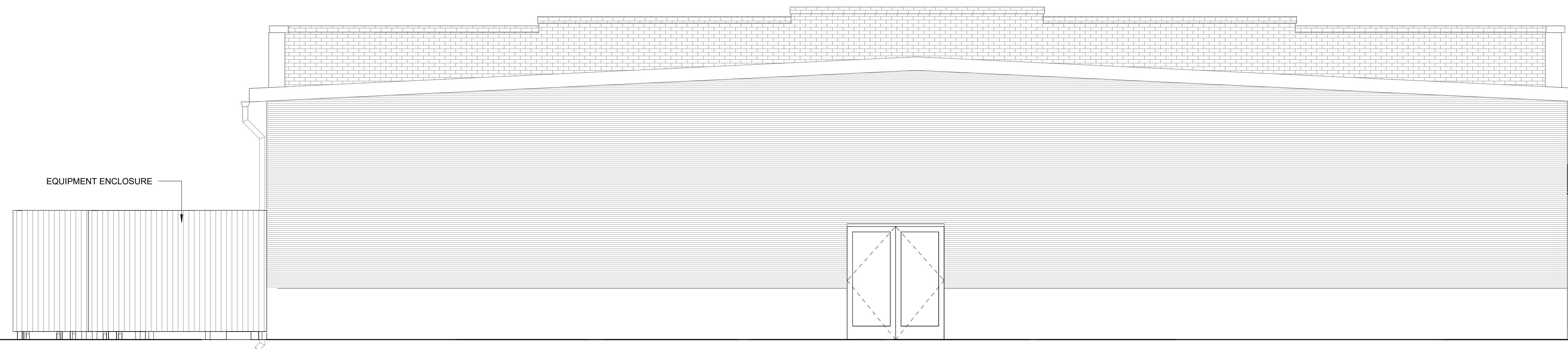
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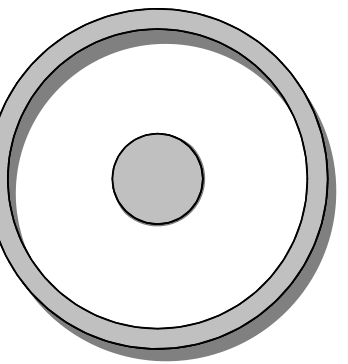
COURTYRD NORTH ELEVATION 1
1/4" = 1'-0"



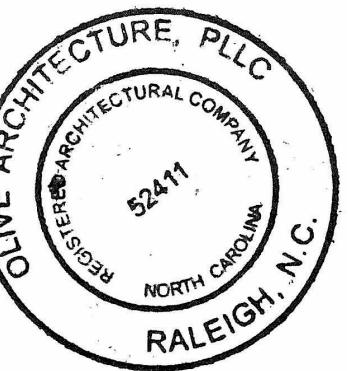
COURTYARD SOUTH ELEVATION 2
3/16" = 1'-0"



EAST ELEVATION 3
1/4" = 1'-0"



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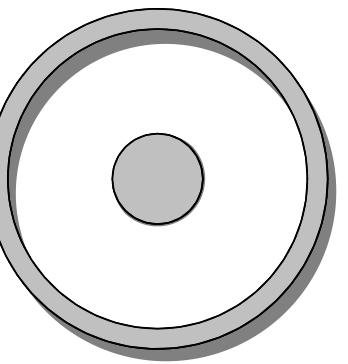
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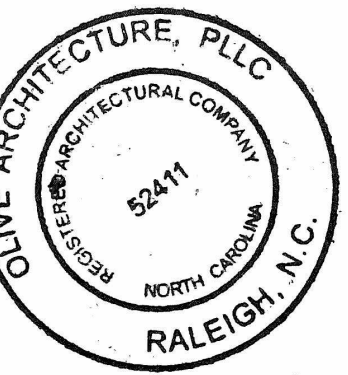
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BREWERY
ELEVATIONS

A201



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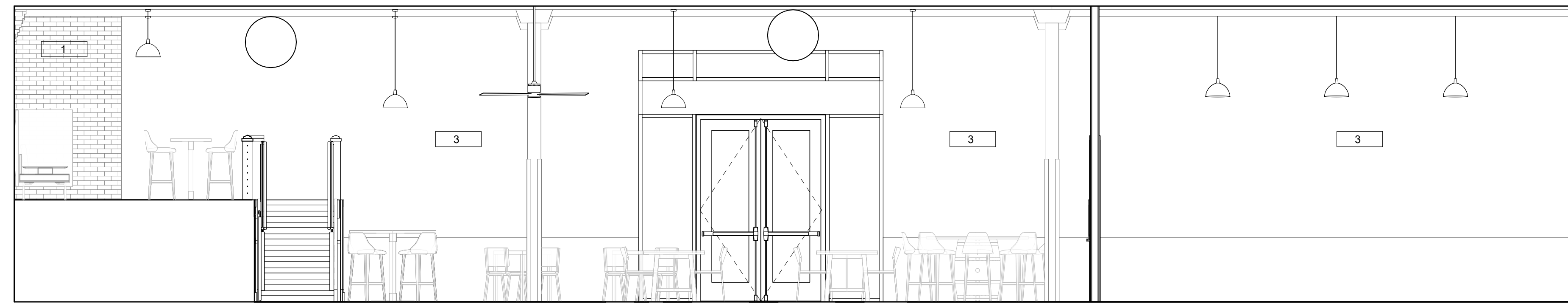
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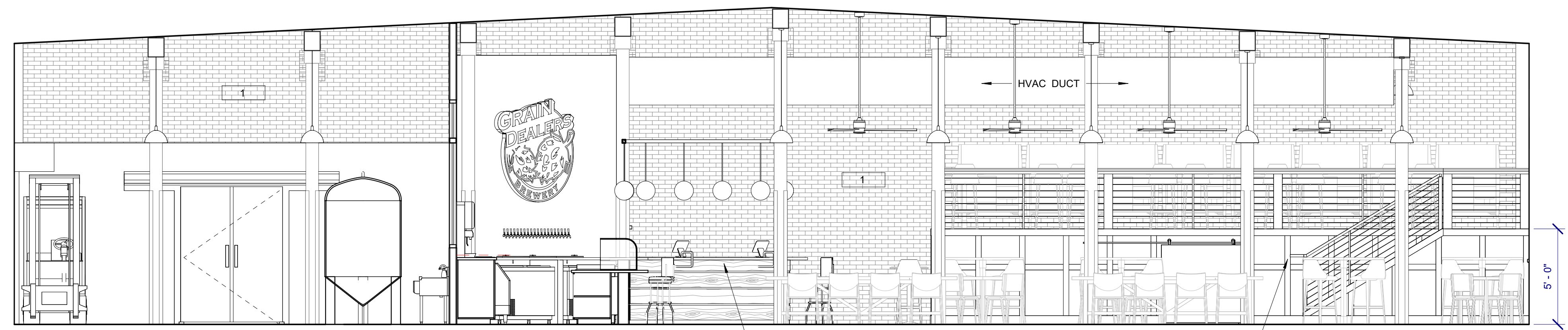
INTERIOR ELEVATIONS

A202

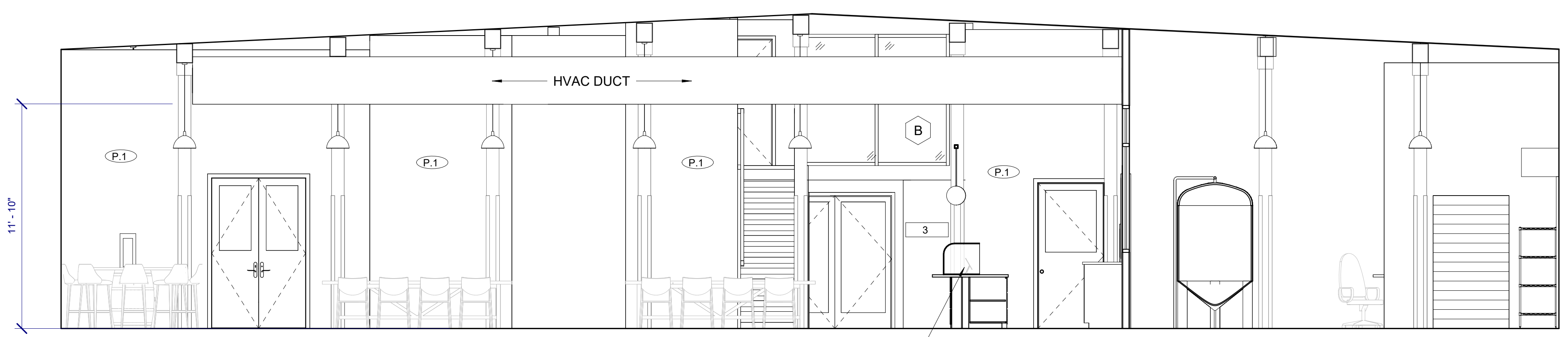
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ELEVATION A
1/4" = 1'-0" 1



ELEVATION B
1/4" = 1'-0" 2



ELEVATION C
1/4" = 1'-0" 3

KEY NOTES

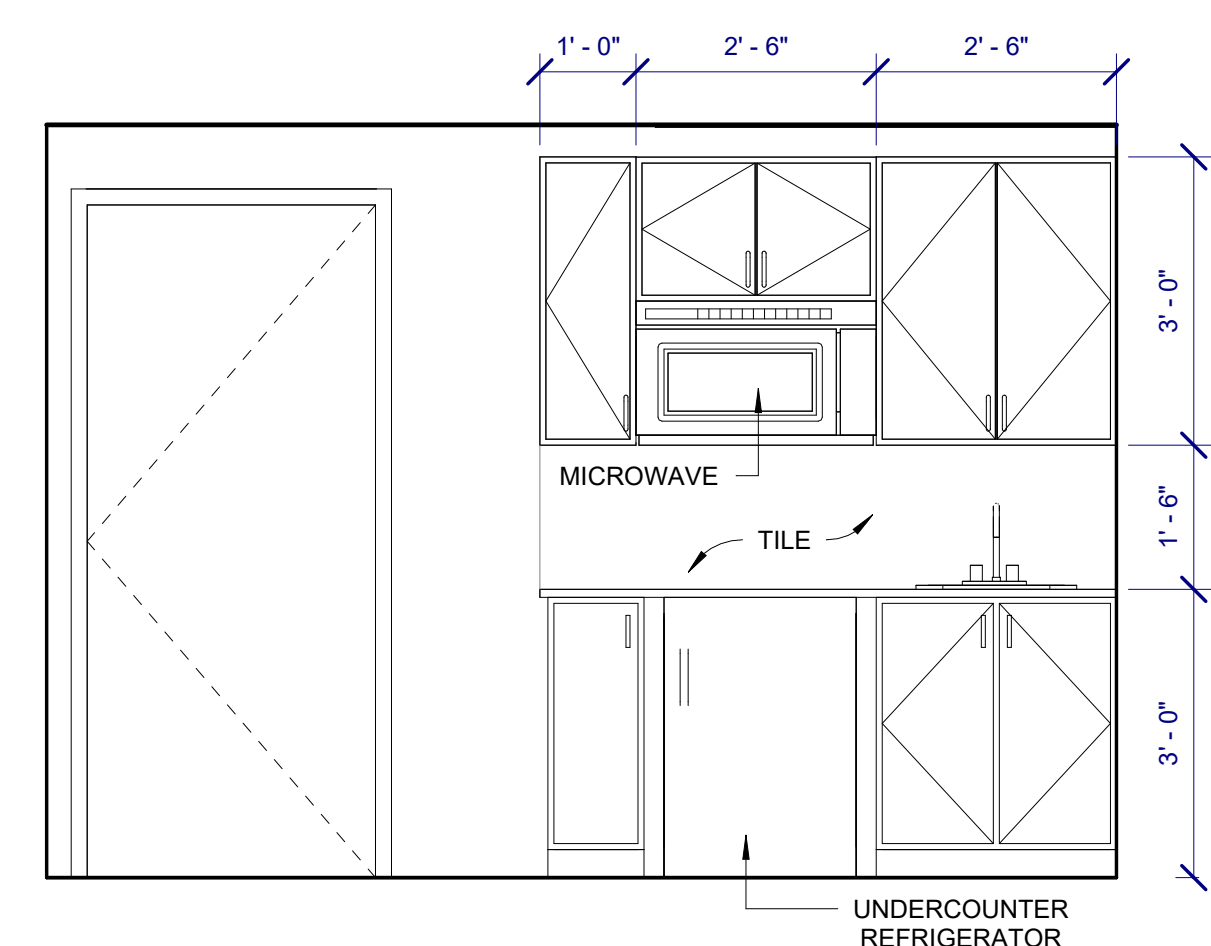
1	EXISTING BRICK WALL
2	NEW GWB
3	FINISH-SEALED CONCRETE WALL PAINTED GWB AT INTERIOR FACE. OPTIONAL FINISH OVER GWB-CORRUGATED METAL.

PAINT TYPE

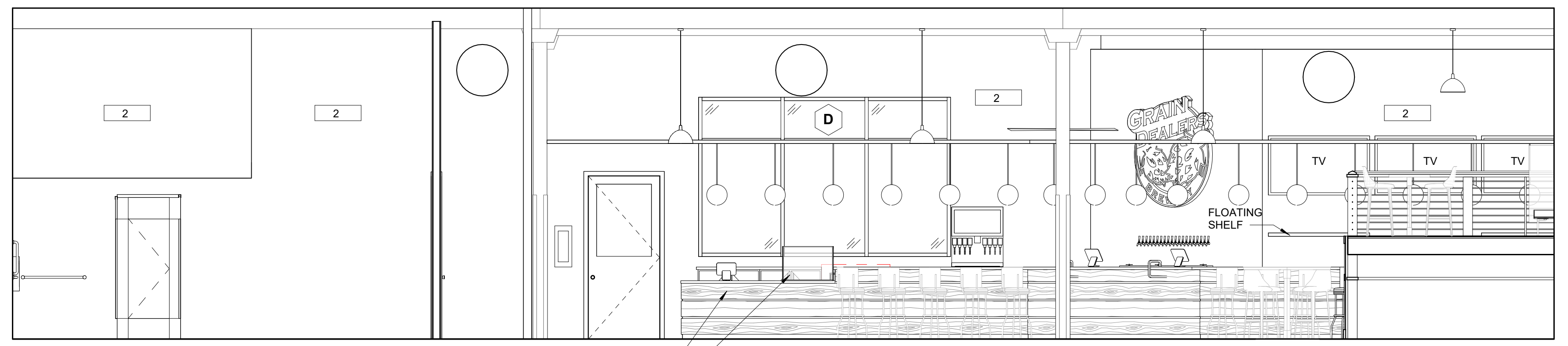
NUMBER	NAME
P.1	EGGSHELL PAINT
P.2	SEMI-GLOSS PAINT
P.3	FLAT/MATTE PAINT

PAINT COLOR

NUMBER	NAME
1	TBD.
2	TBD.
3	TBD.

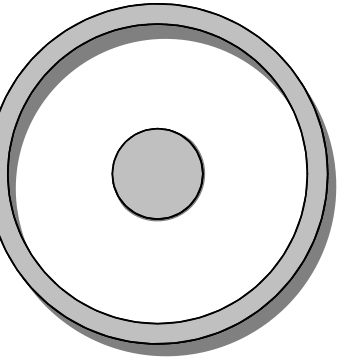


STAFF/OFFICE ELEVATION
1/2" = 1'-0" 5

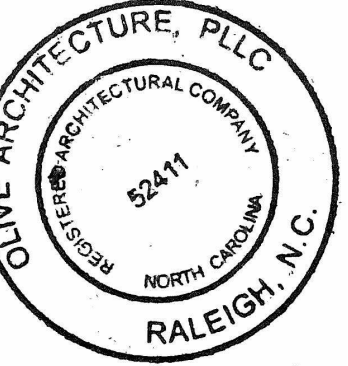


ELEVATION D
1/4" = 1'-0" 4

General Section Notes



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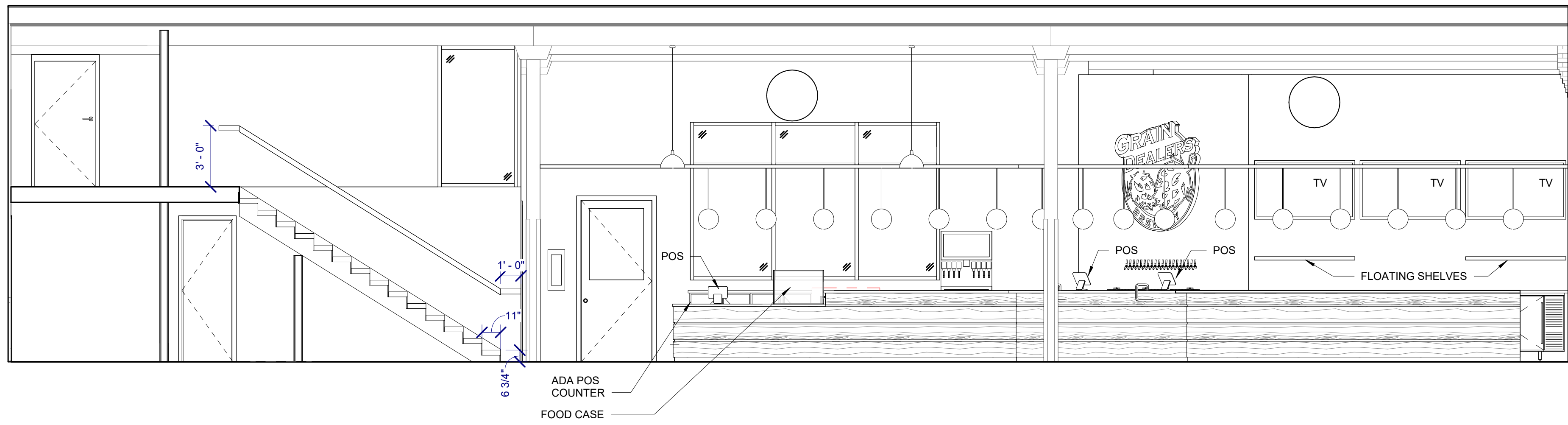
checked by:

project no:
23-117

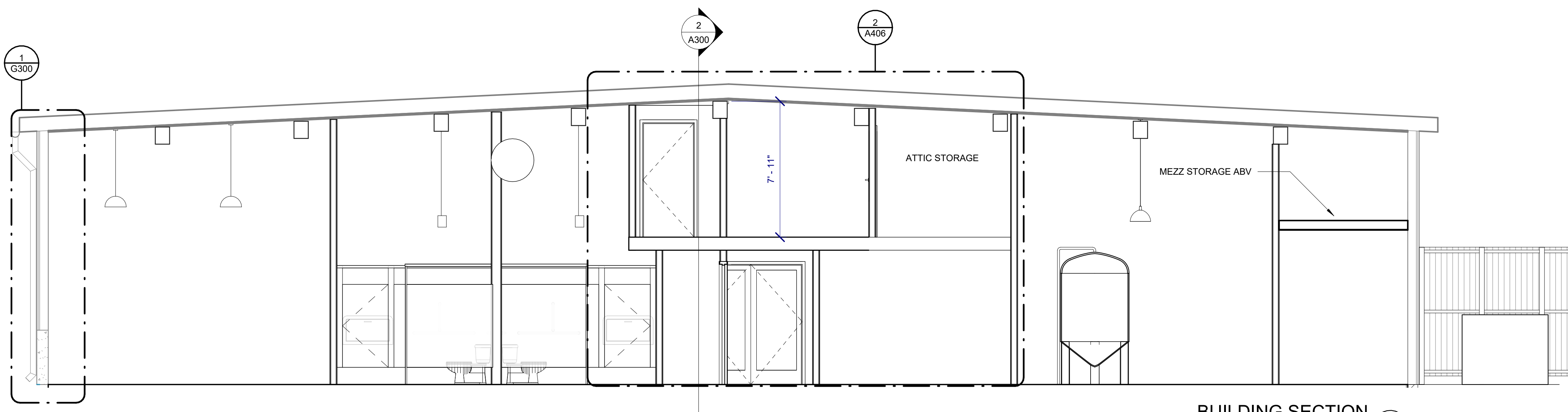
BUILDING SECTIONS

A300

7/22/2024 11:33:11 AM



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



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



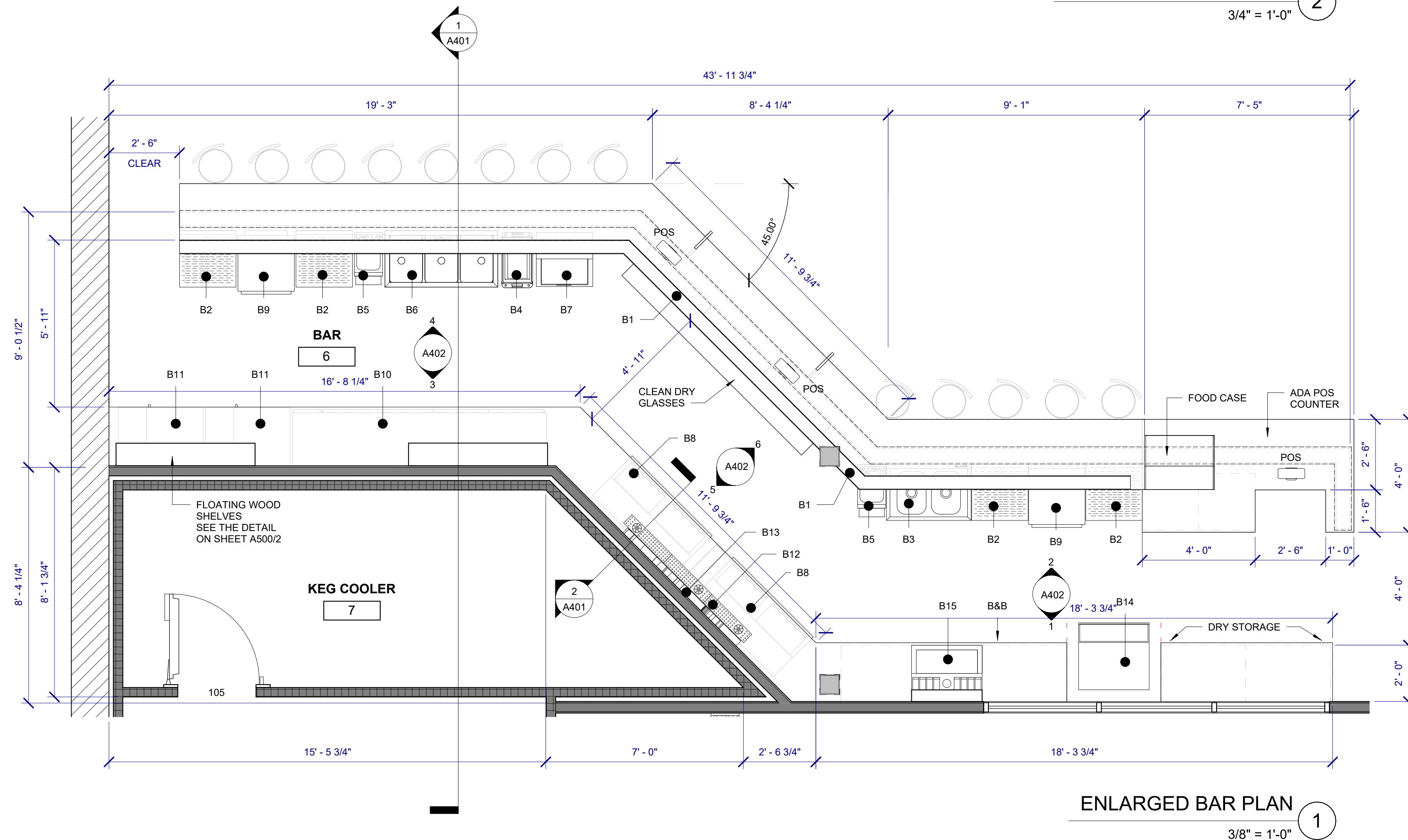
PERSPECTIVE VIEW 4



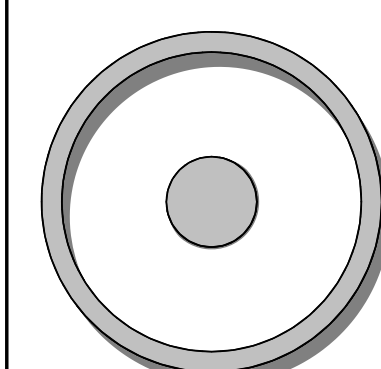
PERSPECTIVE VIEW 3

EQUIPMENT SCHEDULE					
ITEM NO	QTY	EQUIPMENT CATEGORY	ITEM NO	QTY	EQUIPMENT CATEGORY
B1	2	SPILL RAIL	B11	2	BACK BAR 1-DOOR REFRIGERATOR
B2	4	UNDERBAR GLASS RACK	B12		DRIP TRAY
B3	1	TWO COMPARTMENT SINK	B13	1	BEER TAPS
B4	2	TRASH CAN	B14	1	UNDERCOUNTER ICE MACHINE
B5	2	UNDERBAR HAND SINK	B15	1	BEVERAGE DISPENSER & DROP IN ICE CHEST
B6	1	THREE COMPARTMENT SINK			
B7	1	ICE BIN			
B8	2	GLASS FROSTER			
B9	2	HIGH TEMP UNDERCOUNTER WAREWASHER			
B10	1	BACK BAR			

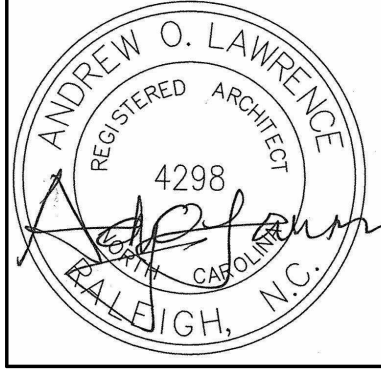
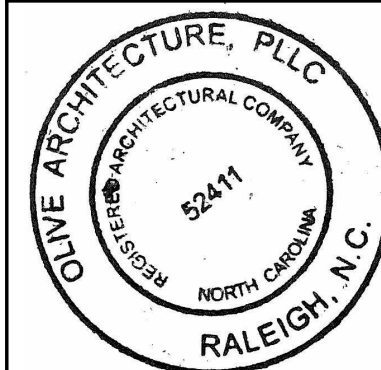
EQUIPMENT SCHEDULE 2
3/4" = 1'-0"



ENLARGED BAR PLAN 1
3/8" = 1'-0"



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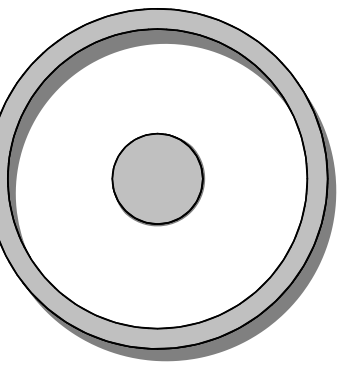
Revision	Date	Description

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checked by:
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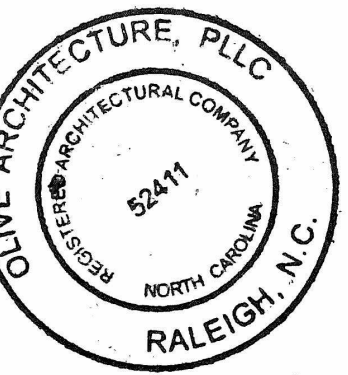
ENLARGED BAR PLAN

A400

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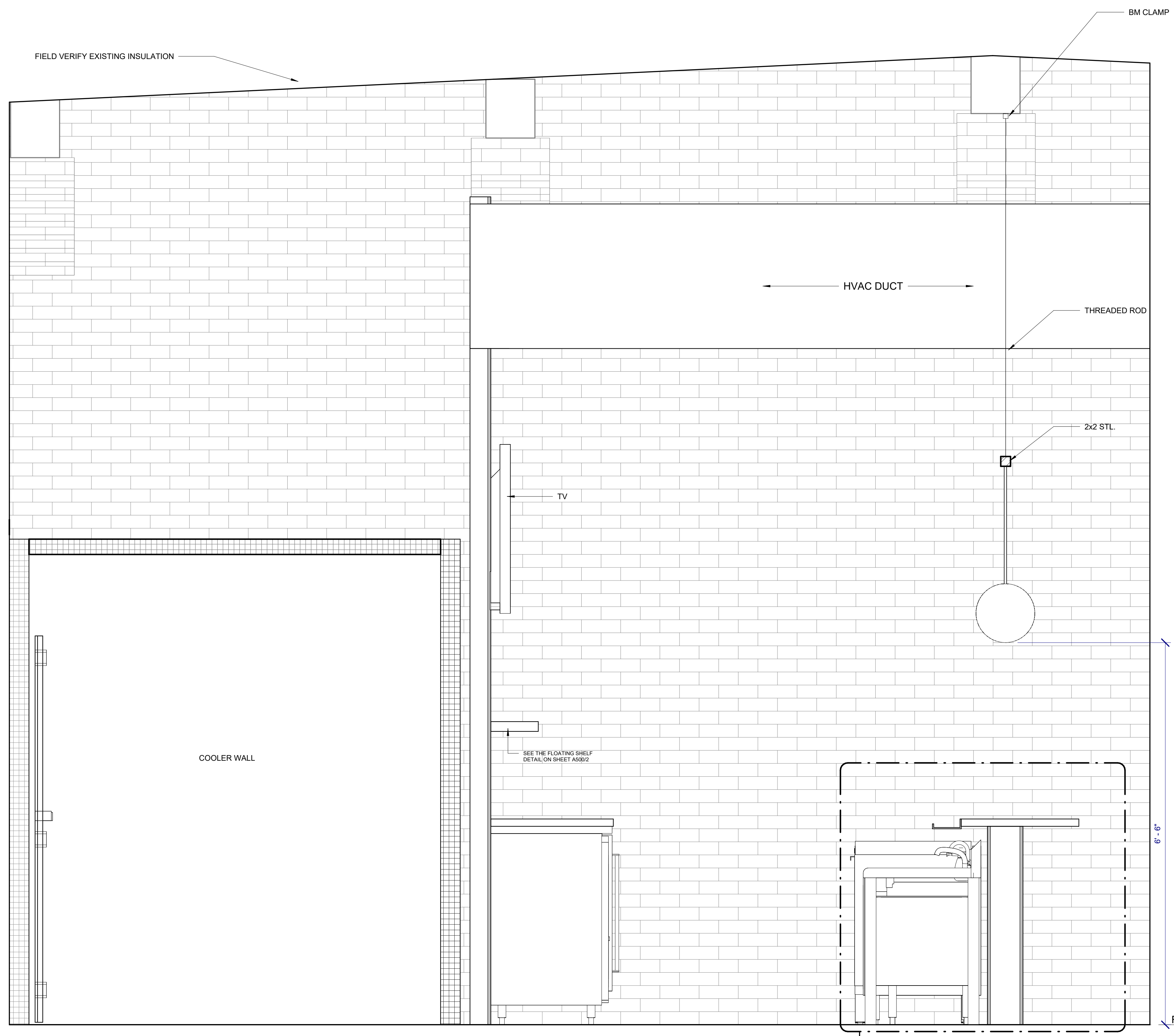
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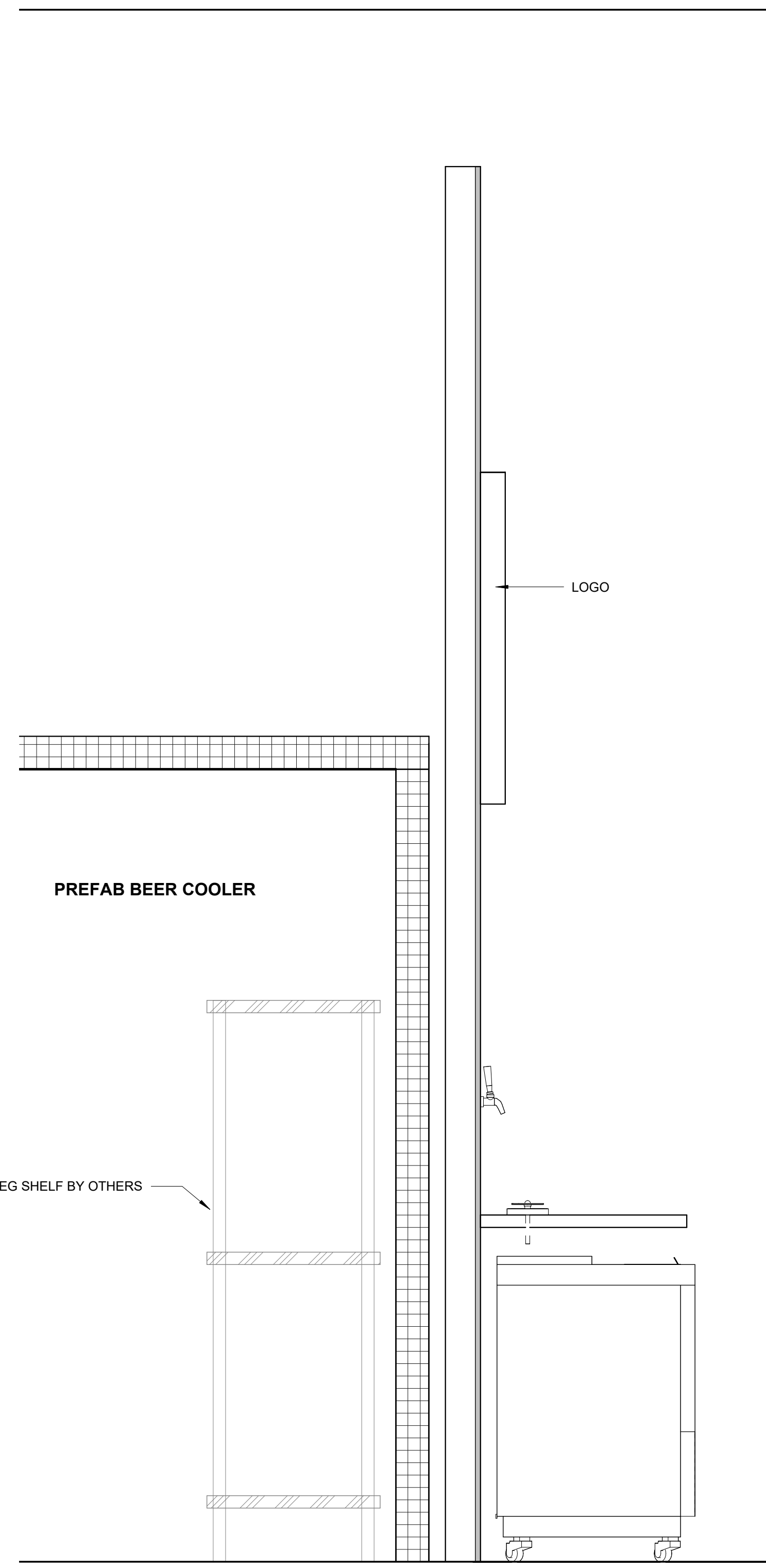
ENLARGED BAR SECTION AND DETAILS

A401

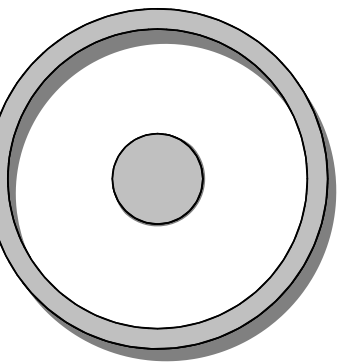
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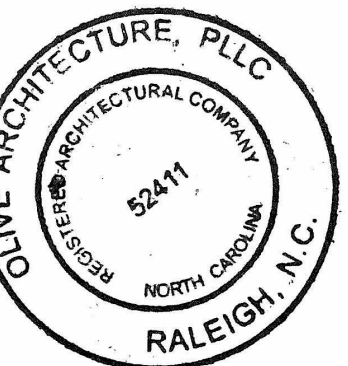
BAR SECTION
1" = 1'-0" 1



SECTION @ BEER COOLER
1" = 1'-0" 2



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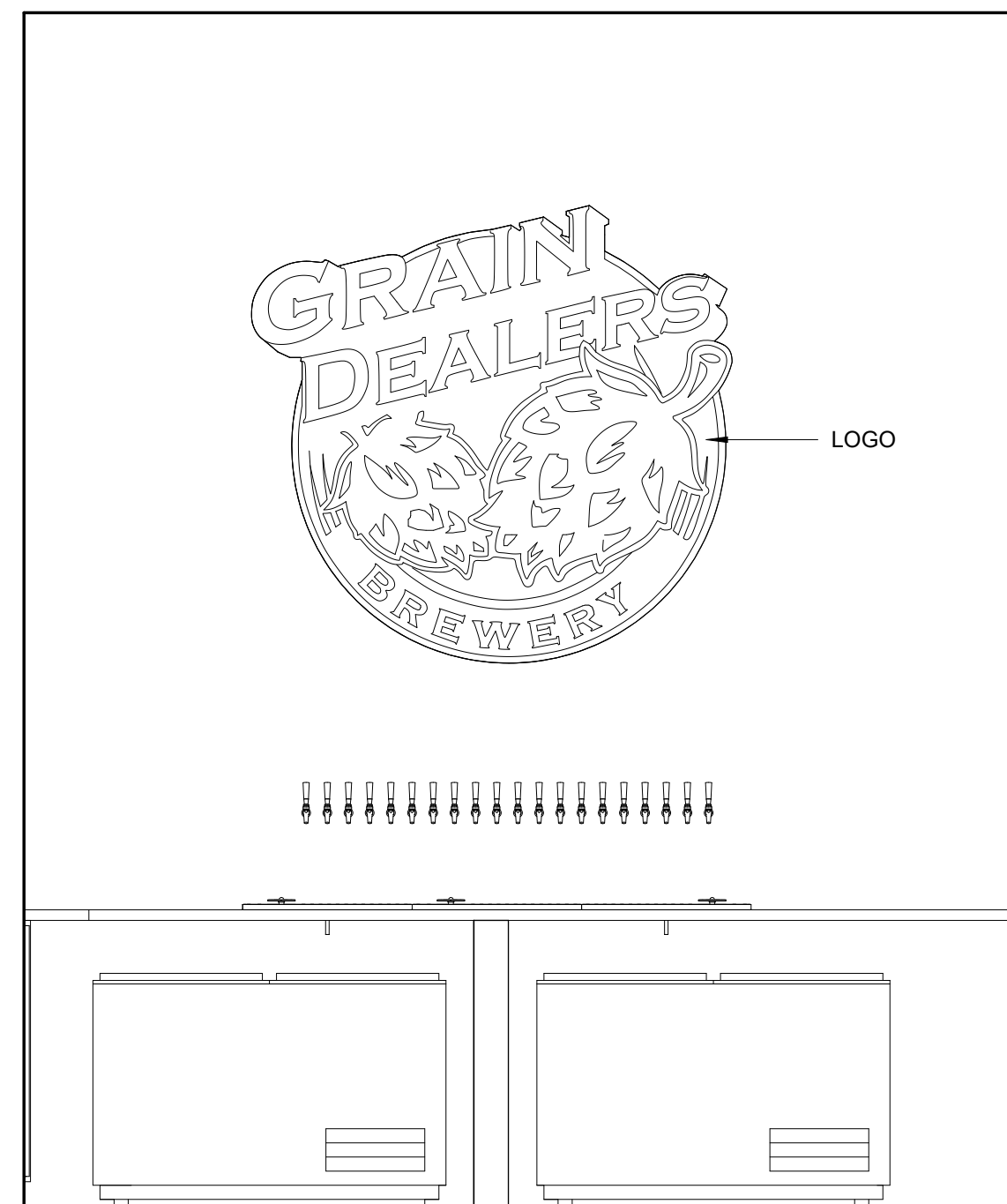
checked by:

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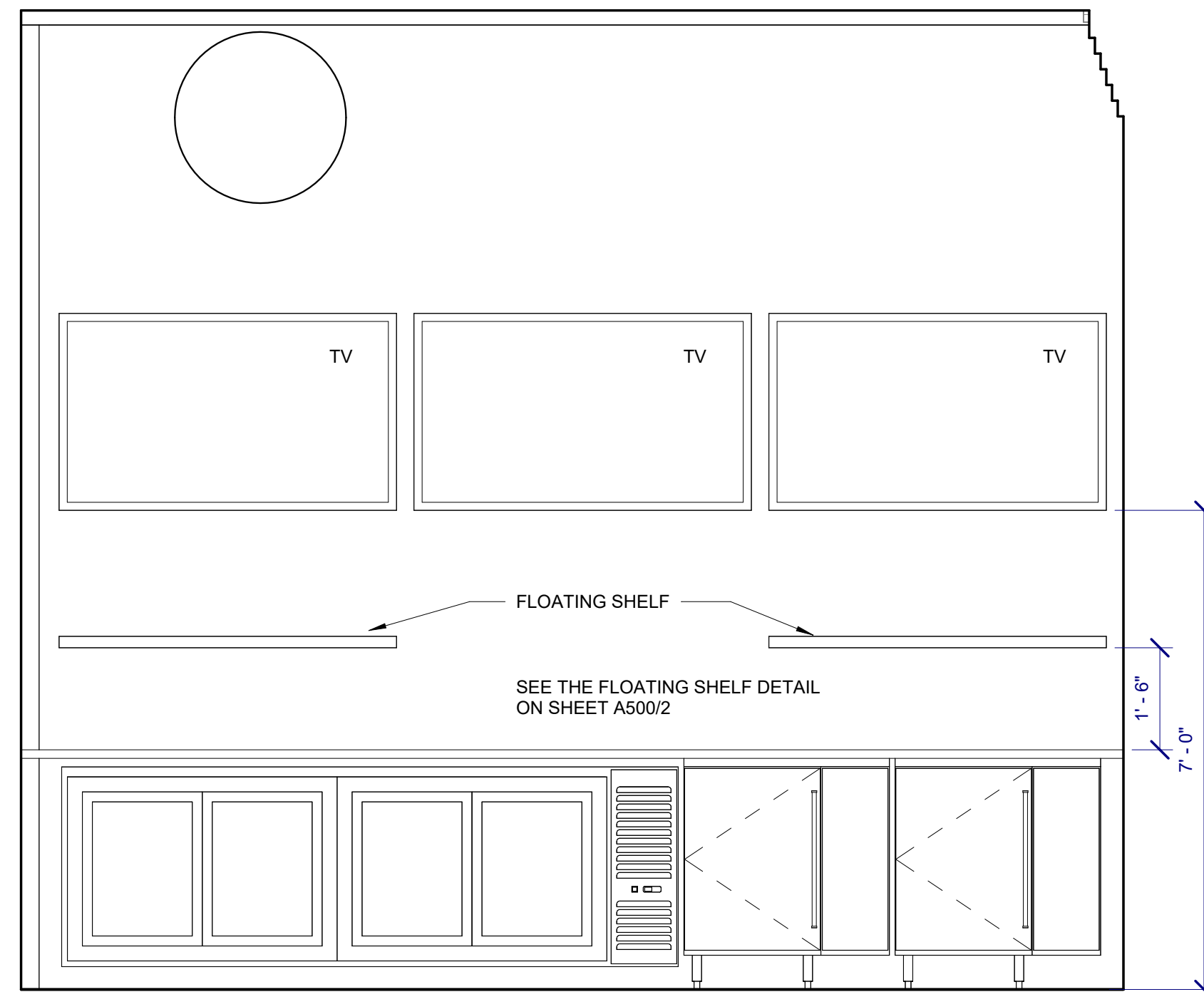
ENLARGED BAR
ELEVATIONS

A402

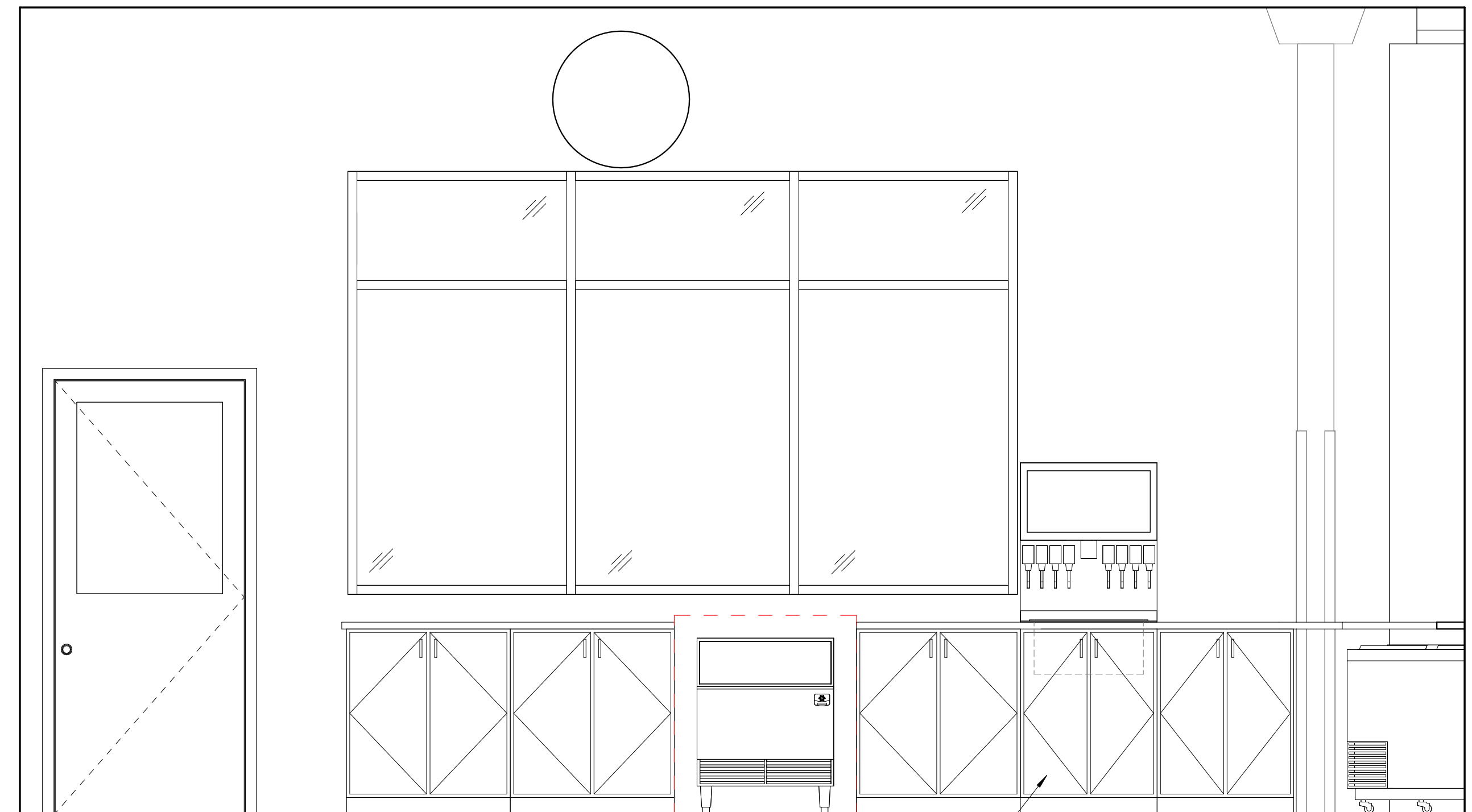
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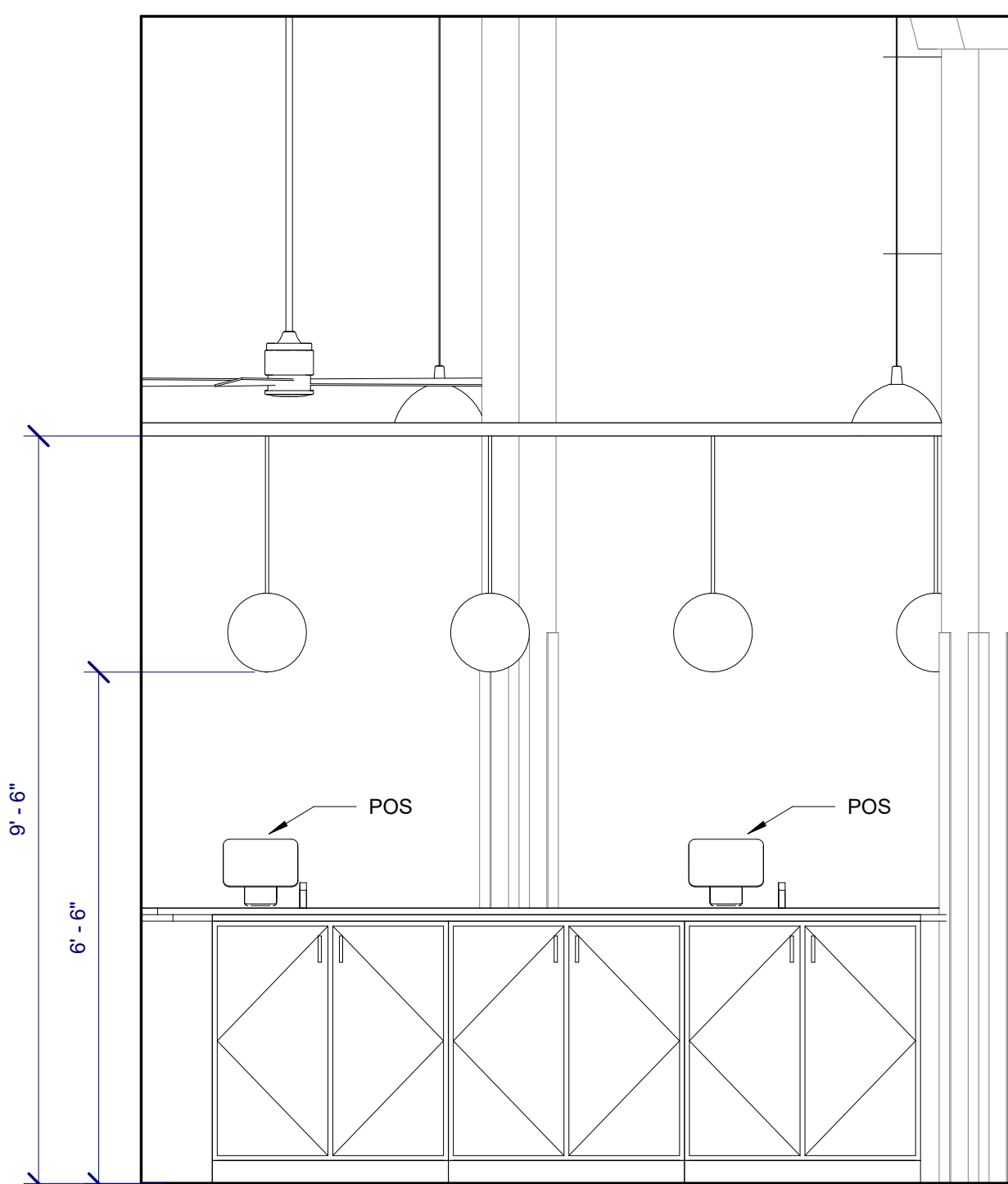
ELEVATION 5
1/2" = 1'-0" 5



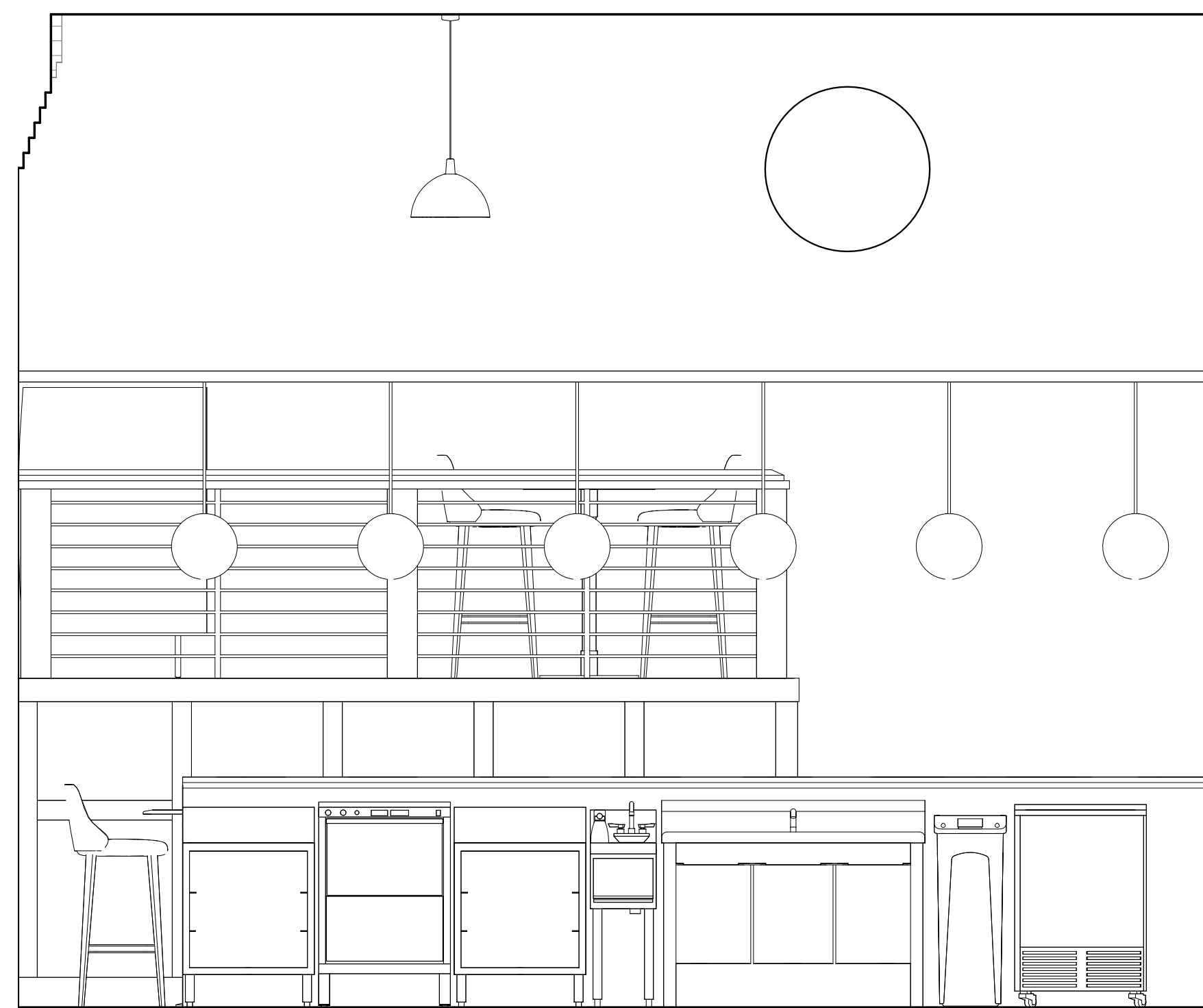
ELEVATION 3
1/2" = 1'-0" 3



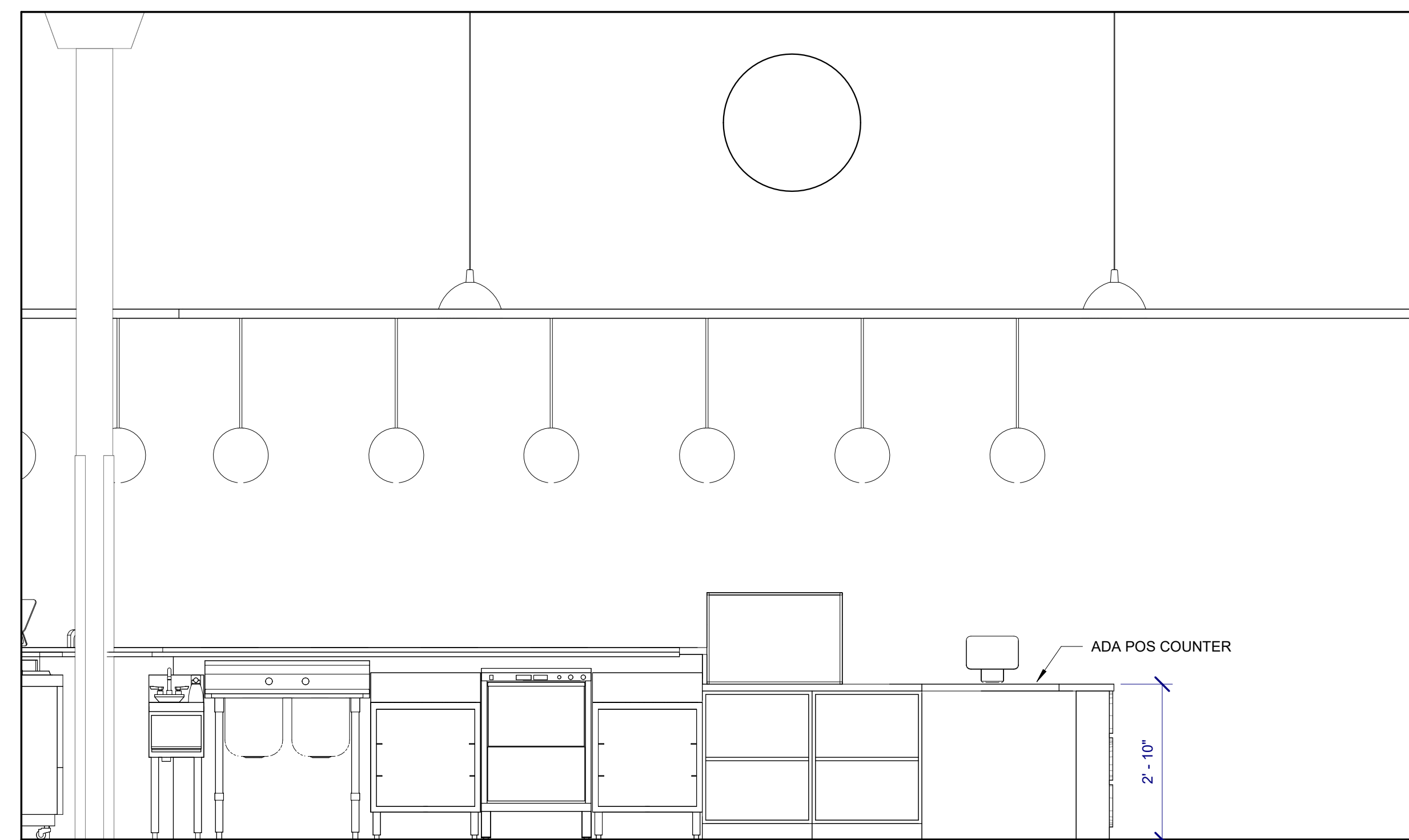
ELEVATION 1
1/2" = 1'-0" 1



ELEVATION 6
1/2" = 1'-0" 6

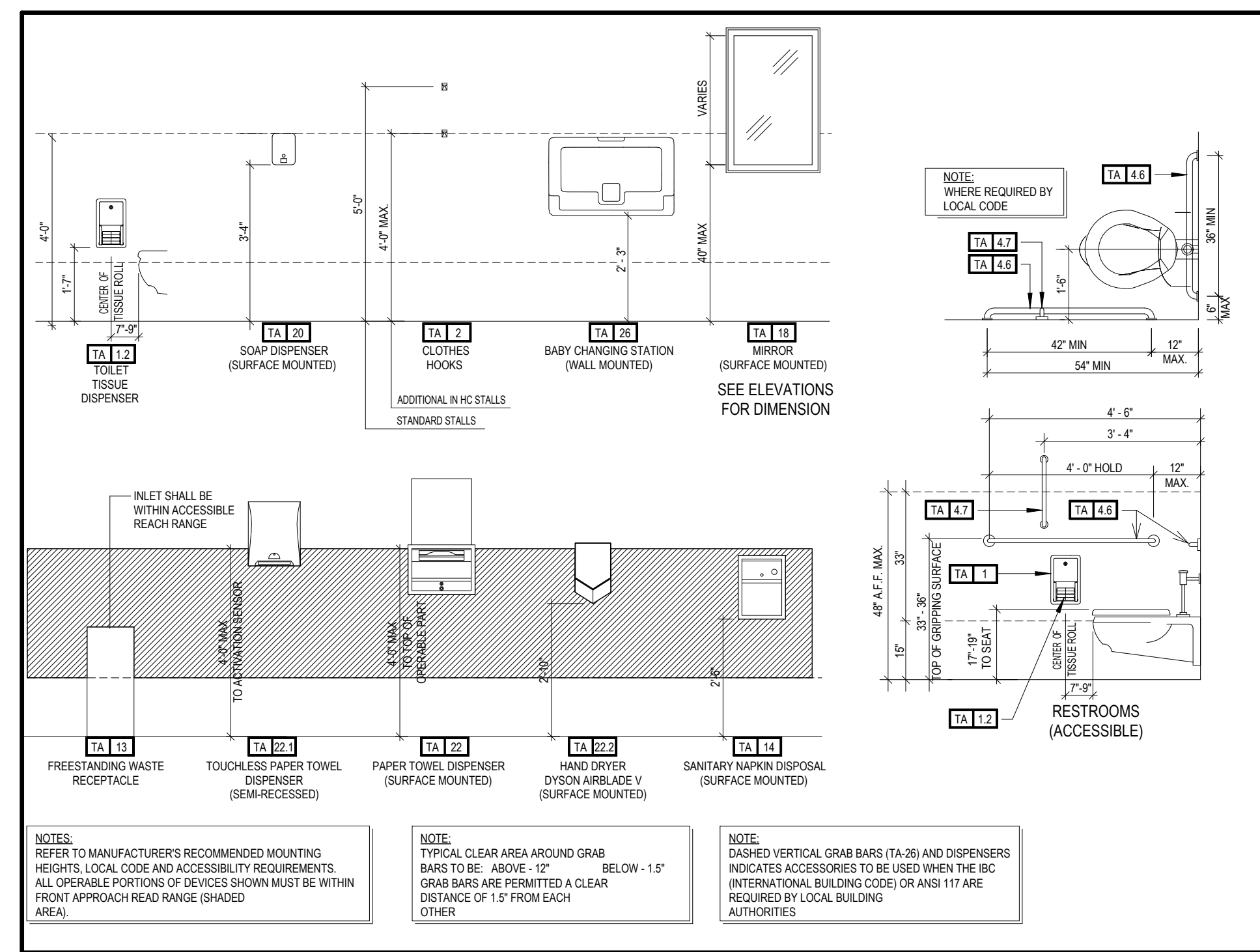


ELEVATION 4
1/2" = 1'-0" 4



ELEVATION 2
1/2" = 1'-0" 2

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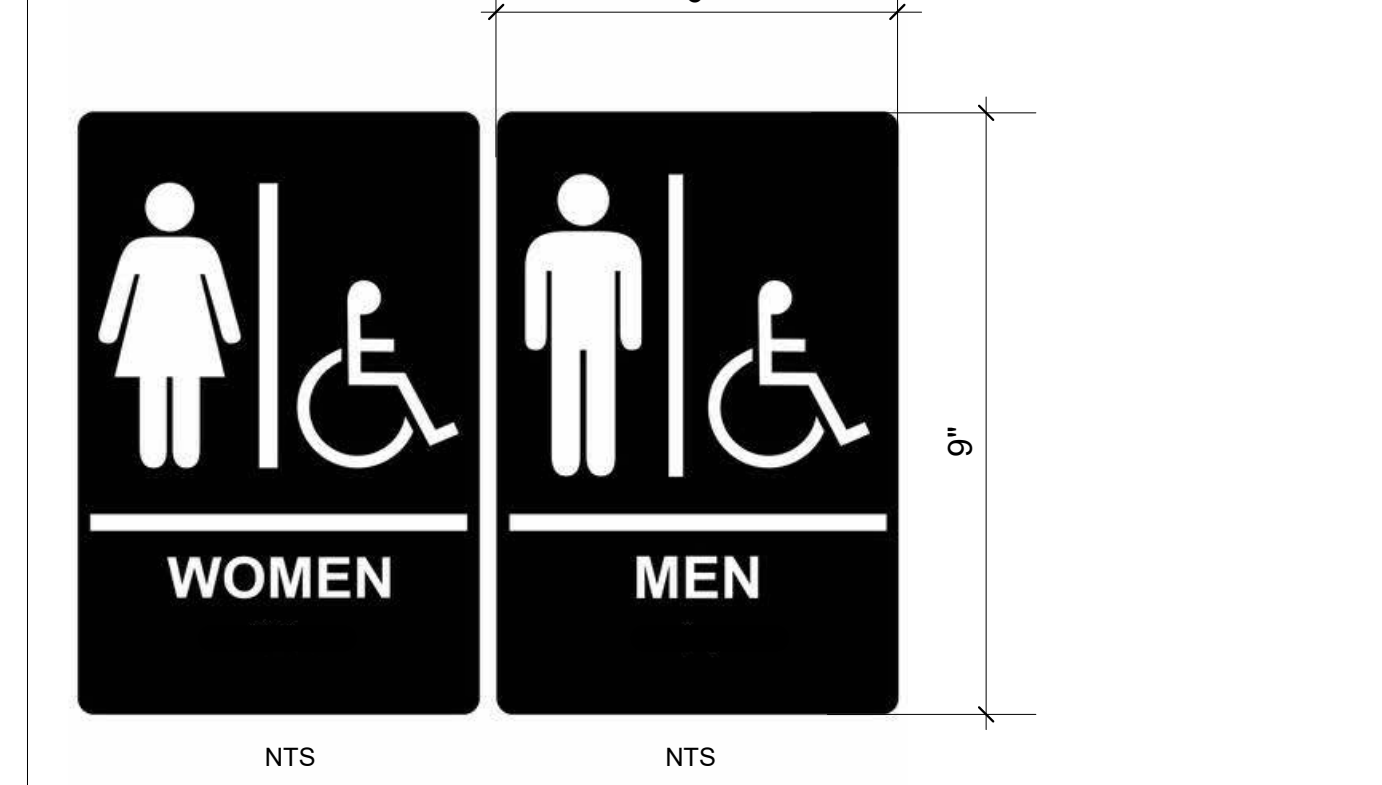
STANDARD ACCESSIBILITY DETAILS AND DIMENSION

- (TA) GENERAL NOTES
1. PROVIDE BLOCKING, OR DIRECT STUD SUPPORT, FOR ALL TOILET ACCESSORIES THIS LIST
 2. APPROVED METAL FINISHES: POLISHED OR BRUSHED CHROME, BRUSHED NICKEL OR STAINLESS STEEL AND FYI PERFORMANCE STANDARDS
 3. WALL MOUNTED EQUIPMENT, FIXTURE, ETC. BETWEEN 27" AND 80" A.F.F. SHALL NOT PROTRUDE FURTHER THAN 4" FROM WALL PER ACCESSIBILITY STANDARDS
 4. ALL CONTROLS MUST BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND PROVIDE A 30"X48" CLEAR FLOOR AREA IN COMPLIANCE WITH ACCESSIBLE STANDARDS. OPERABLE CONTROLS LOCATED OVER AN OBSTRUCTION DEEPER THAN 10" MUST BE MOUNTED NO HIGHER THAN 48" AFF. ACCESSIBLE CONTROLS MUST NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
 5. LIGHTS IN PUBLIC AREA MUST BE ON KEYED SWITCHES OR MOTION SENSORS. THE MOTION SENSOR MUST HAVE A DELAY OF THIRTY MINUTES FROM THE LAST DETECTION OF MOVEMENT IN THE DEFINED AREA PRIOR TO SHUT DOWN. ENTRY LIGHT IN PUBLIC RESTROOMS MUST REMAIN ON AT ALL TIMES IN MULTI-STALL RESTROOM.
 6. A GFCI/ELCB/RCCB OR EQUAL DUPLEX OUTLET MUST BE LOCATED ON A SIDEWALL OF THE WATER BASIN.

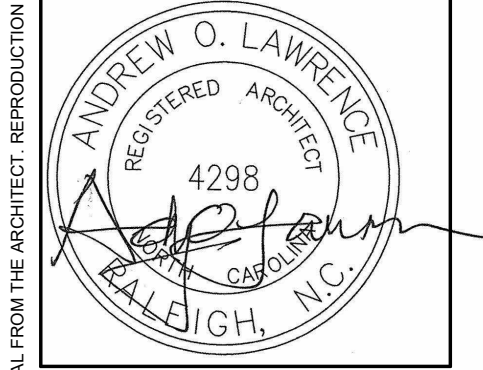
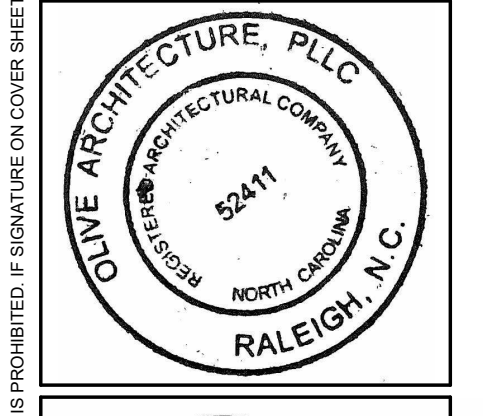
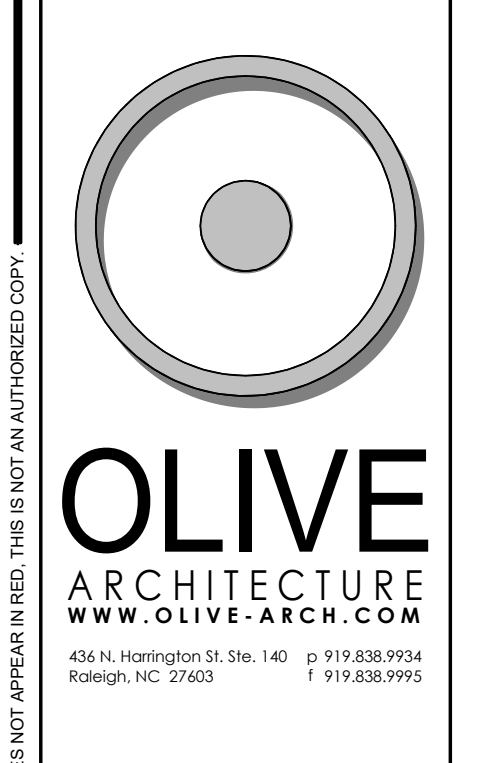
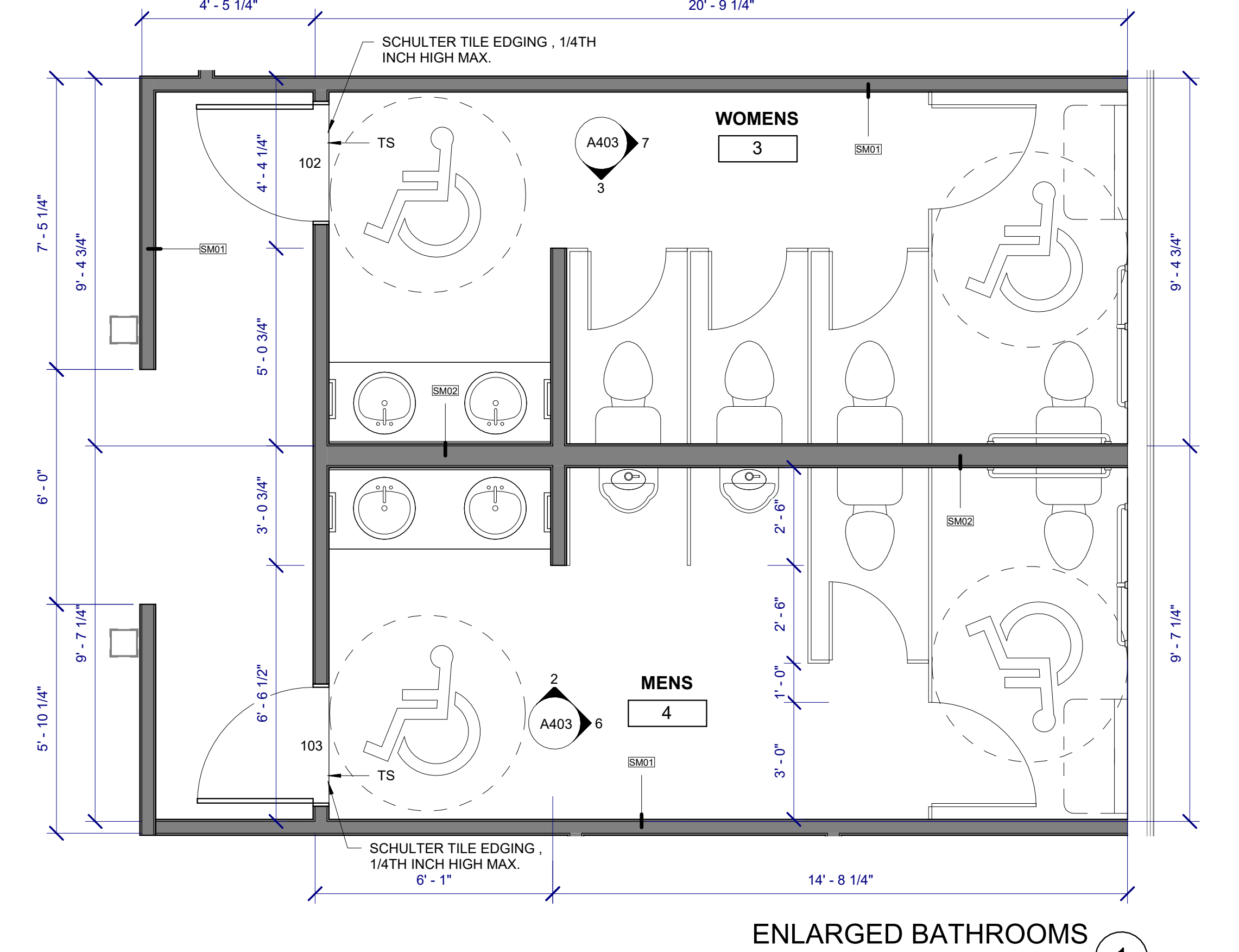
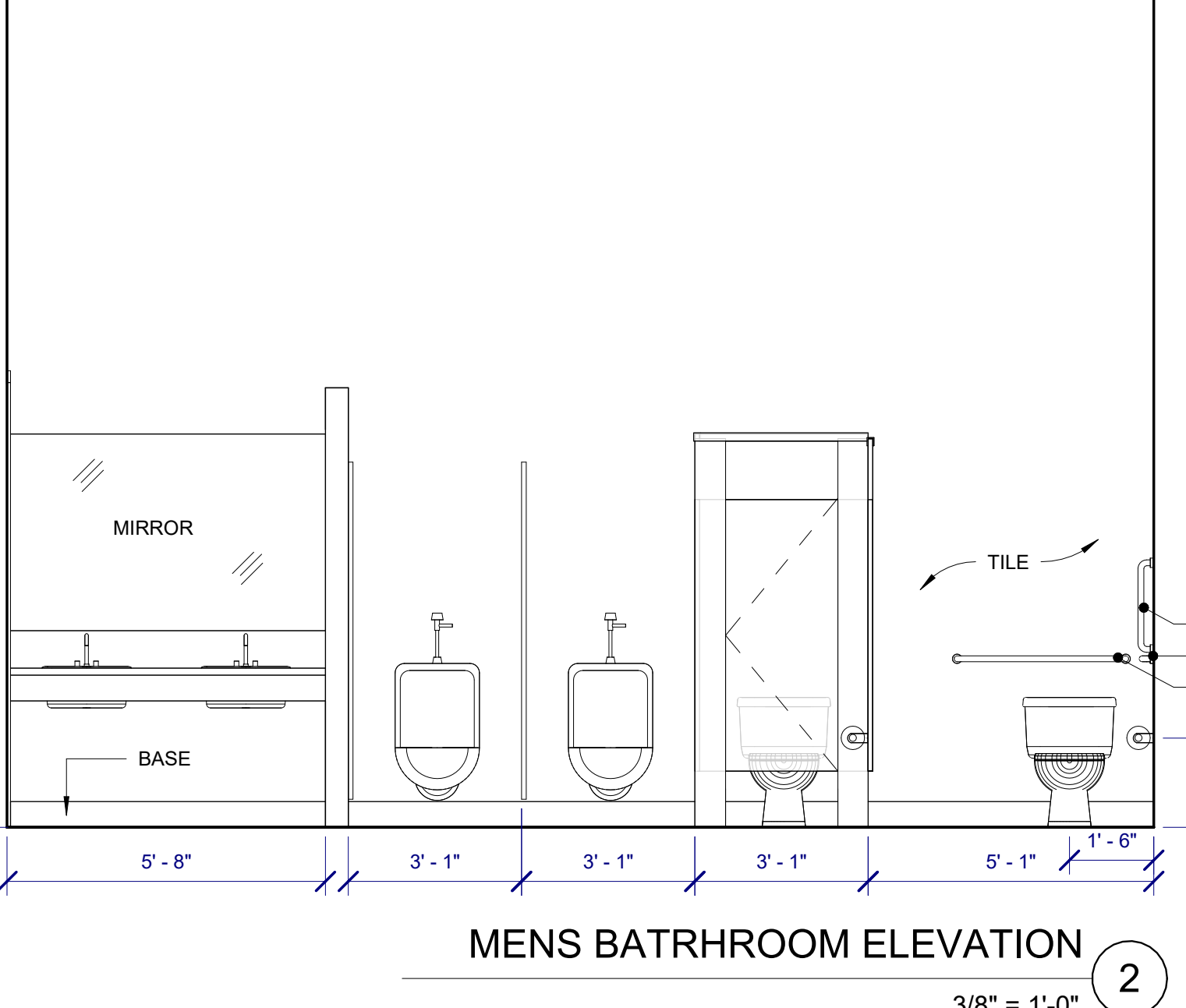
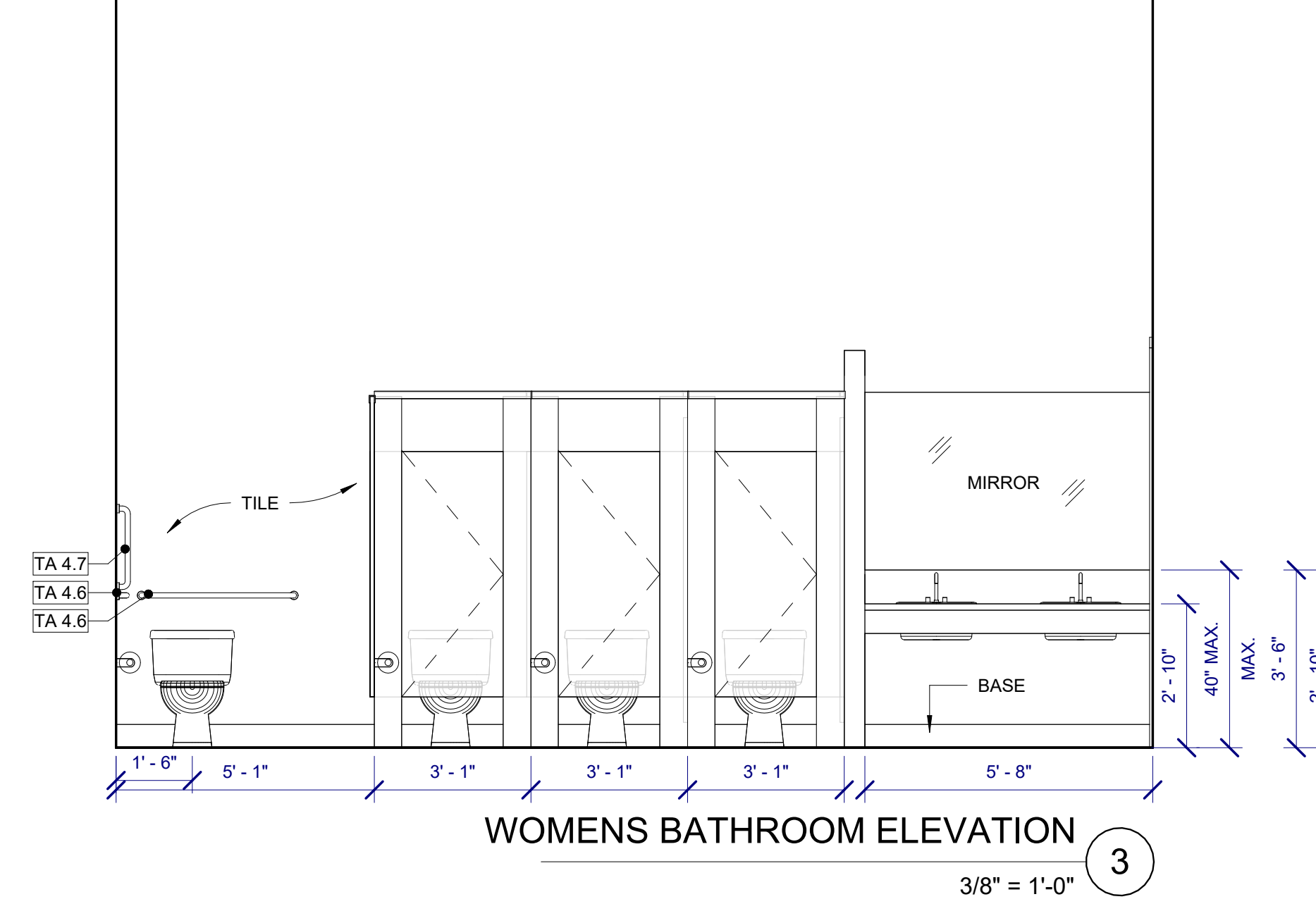
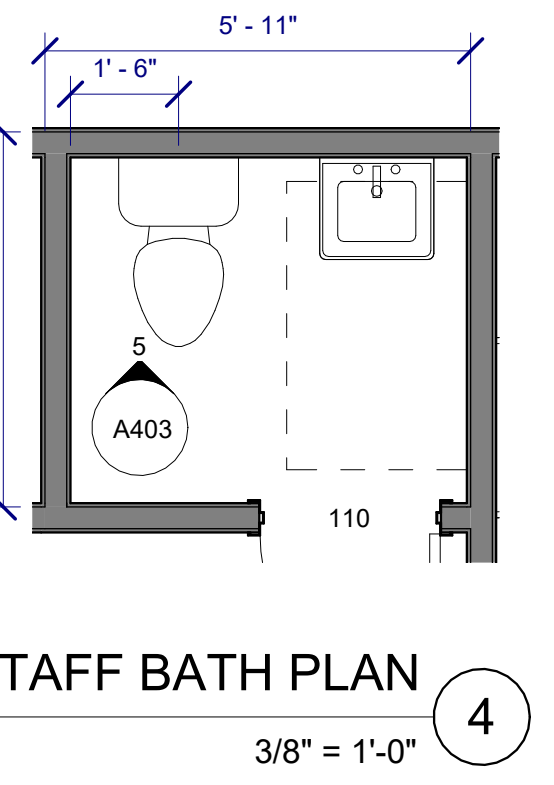
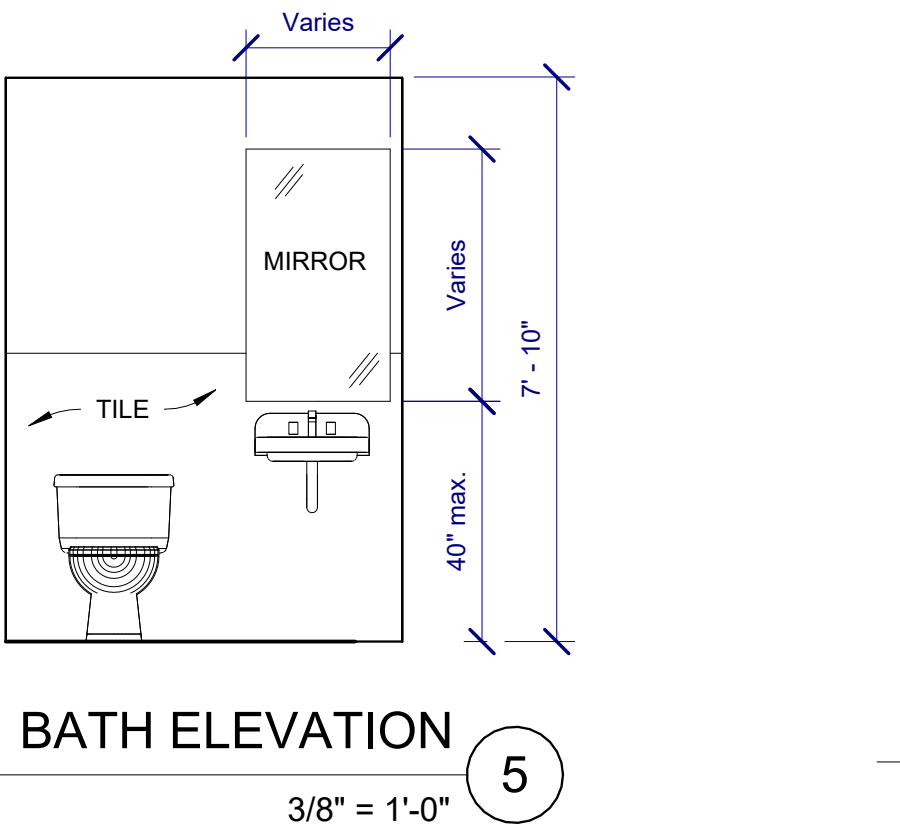
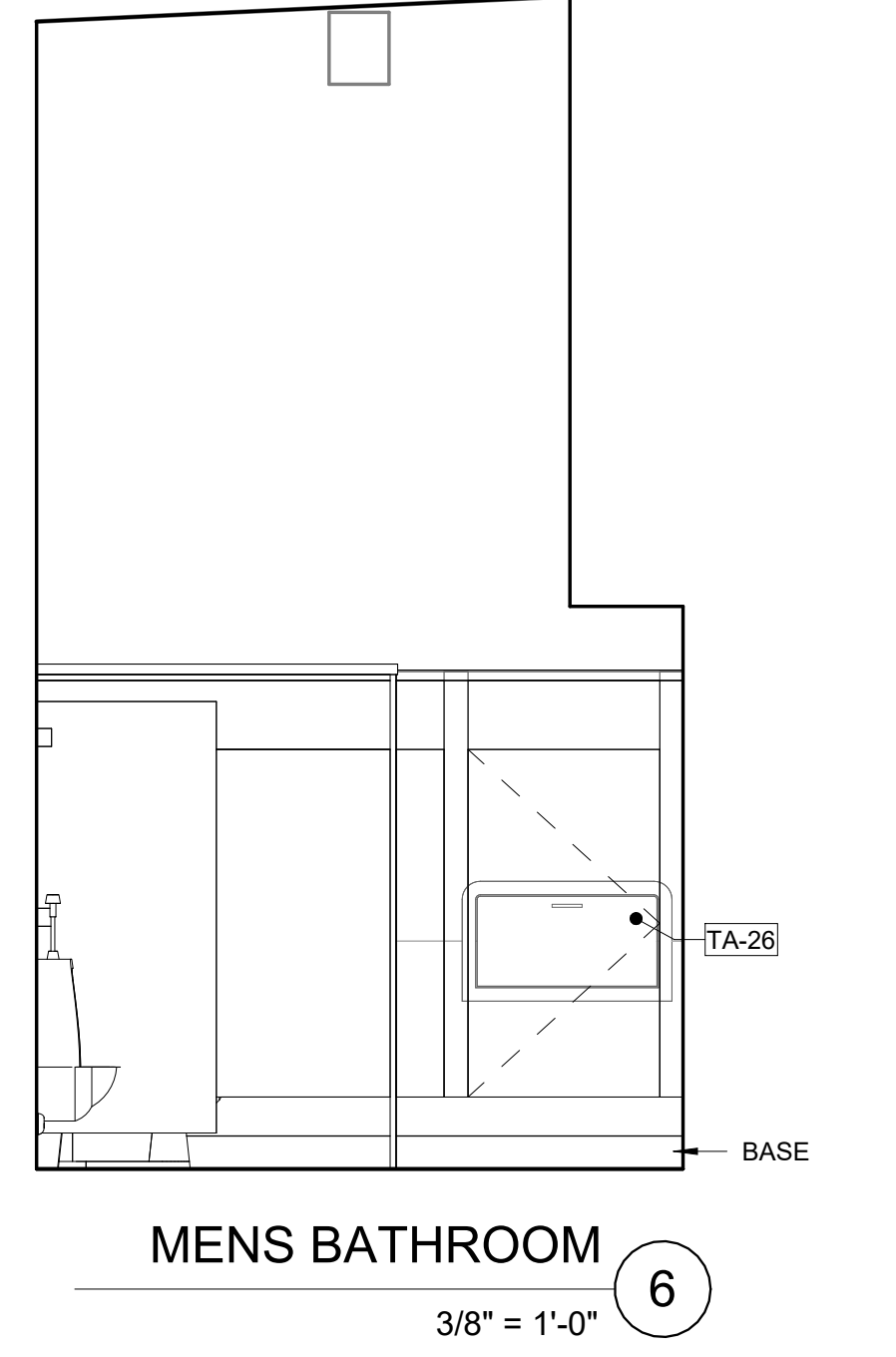
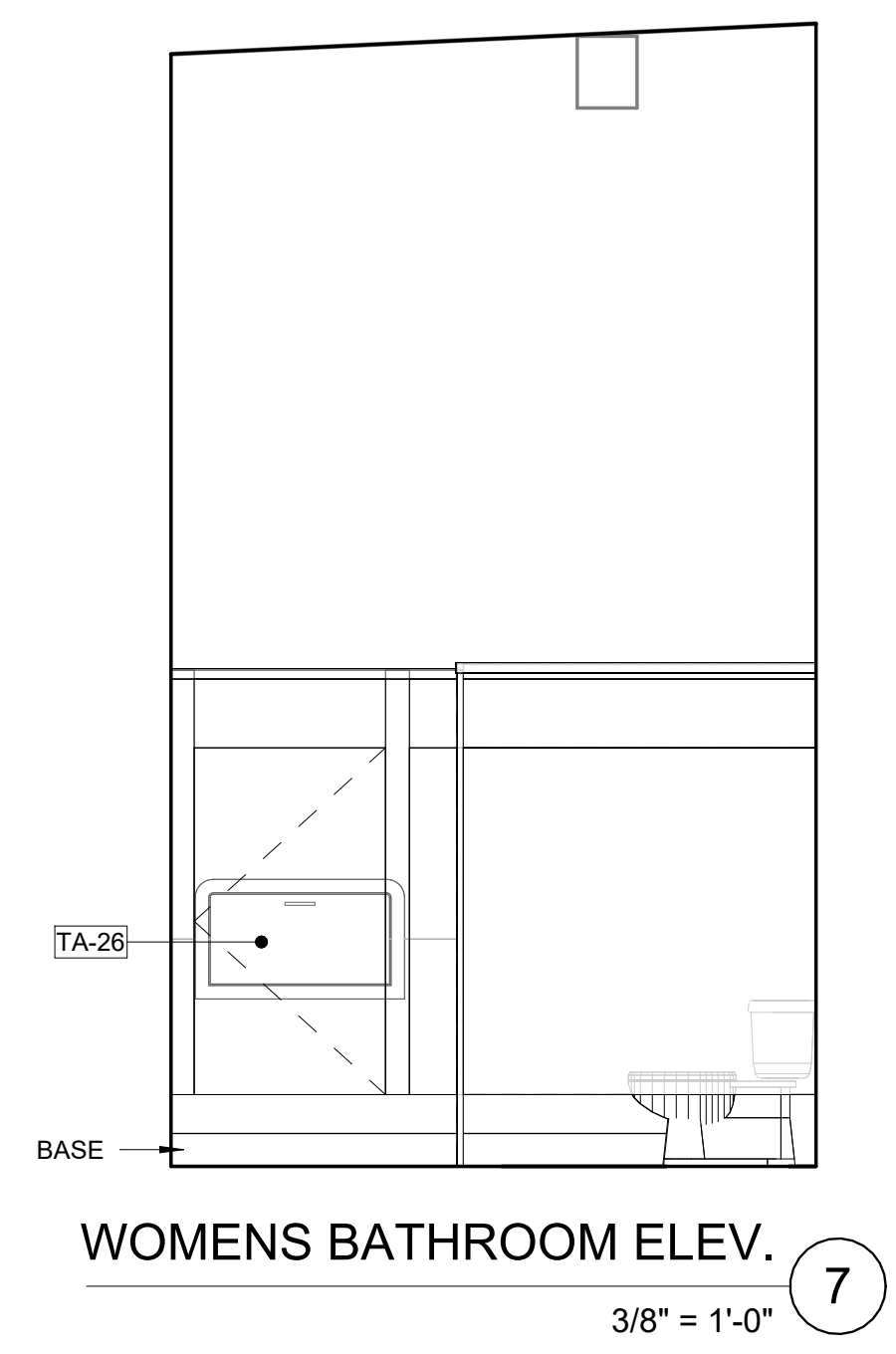
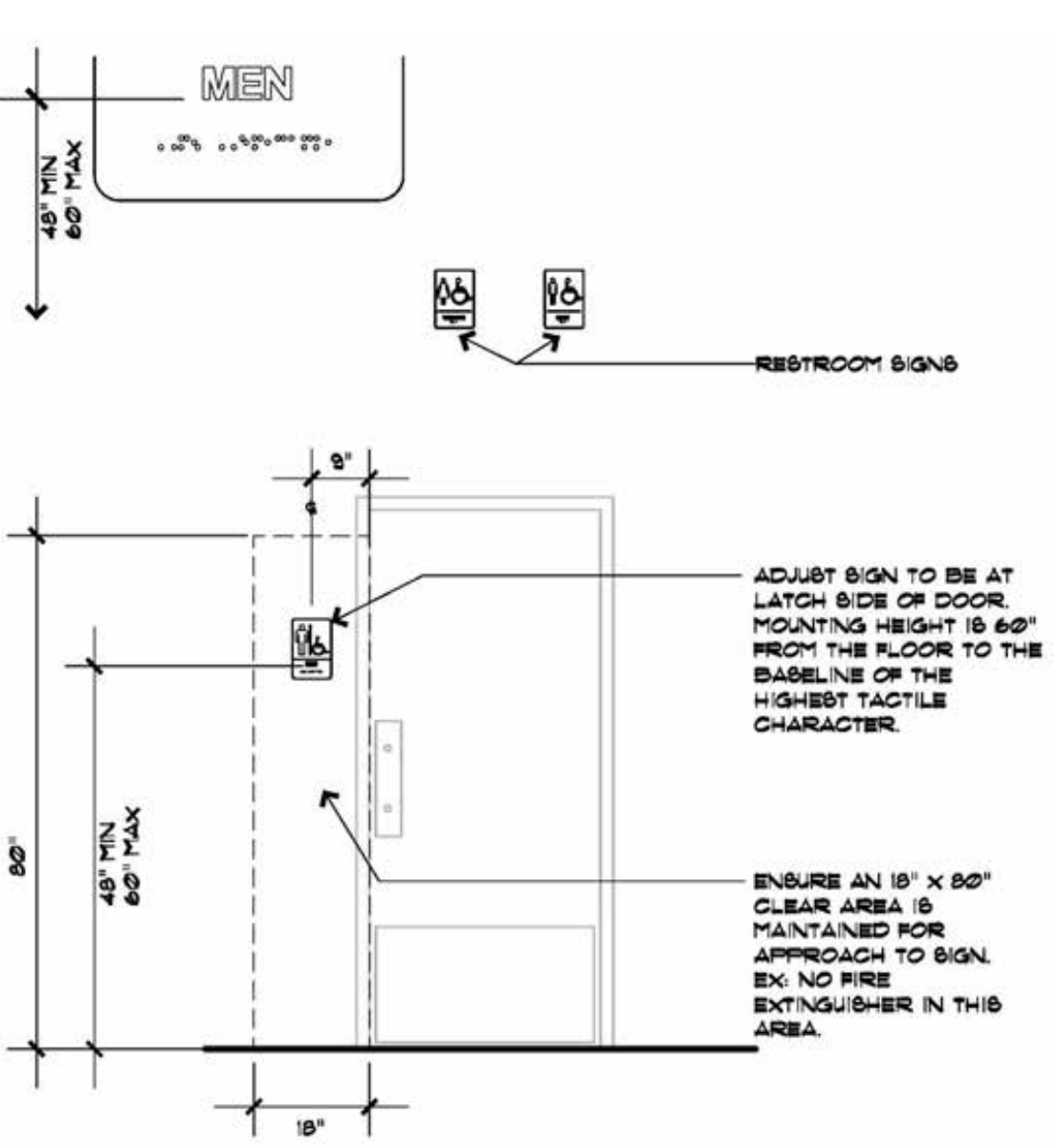
ADA BATHROOM SIGNAGE REQUIREMENTS:

ADA COMPLIANT SIGNS IN PUBLIC SPACES MUST INCLUDE A PICTOGRAM, TACTILE TEXT, BRAILLE, OR A COMBINATION OF THESE TO ENSURE THAT PEOPLE WITH DISABILITY CAN NAVIGATE THE AREA EASILY AND SAFELY.

PER THE ADA, STANDARD RESTROOM SIGNS MUST BE LOCATED BETWEEN 48 AND 60 INCHES ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED TO THE BASE OF THE LOWEST BRAILLE CELLS.



- GENERAL NOTES
1. LIGHT SWITCH AND G.F.I. OUTLETS CAN BE MOUNTED IN A COMMON 4x4 BOX WITH COVER PLATE. COORDINATE CLEARANCES AS REQUIRED.
 2. THE HEIGHT OF ALL SWITCHES, OUTLETS, ETC., TO MEET ACCESSIBILITY REQUIREMENTS AND/OR LOCAL CODES, WHICHEVER IS MORE STRINGENT. SWITCHES ON LAMPS MUST BE TOGGLE TYPE, AS REQUIRED.
 3. SLOPE OR DISH FLOORS TO DRAIN. SLOPE NOT TO EXCEED 1:48 IN ANY DIRECTION.
 4. ANY LIGHT FIXTURES OVER WET AREAS TO BE DAMP LOCATION RATED W/ SHATTERPROOF LENS.
 5. WALL MOUNTED EQUIPMENT, FIXTURES, ETC. BETWEEN 27" AND 80" A.F.F. SHALL NOT PROTRUDE FURTHER THAN 4" FROM THE WALL PER ACCESSIBILITY REQUIREMENTS.
 6. ALL CONTROLS FOR USE BY GUESTS, MUST BE MOUNTED BETWEEN 15" AFF AND 48" AFF. ACCESSIBLE CONTROLS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
 7. THE BOTTOM OF THE REFLECTIVE SURFACE OF MIRRORS IN ALL A.D.A. BATHROOMS MUST BE NO HIGHER THAN 40" A.F.F.



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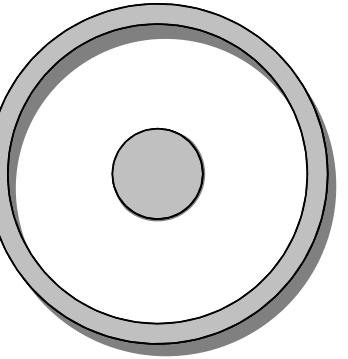
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ENLARGED BATHROOM PLANS

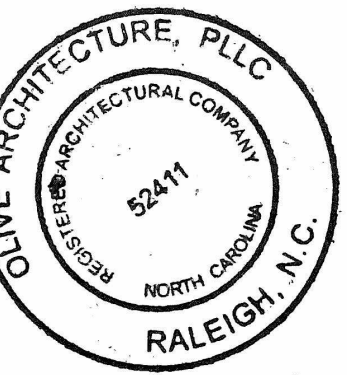
A403

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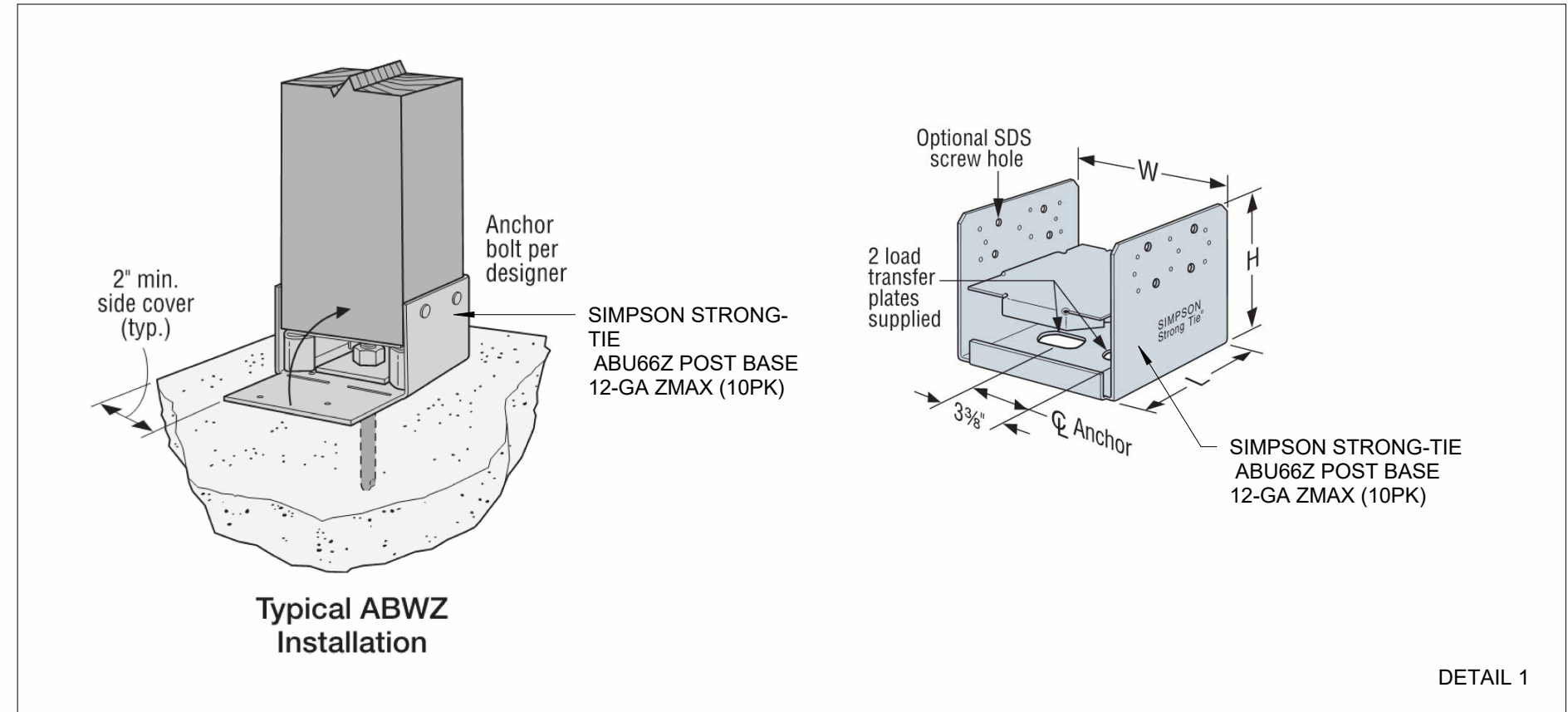
ELEVATED PLATFORM
FRAMING PLAN

A404

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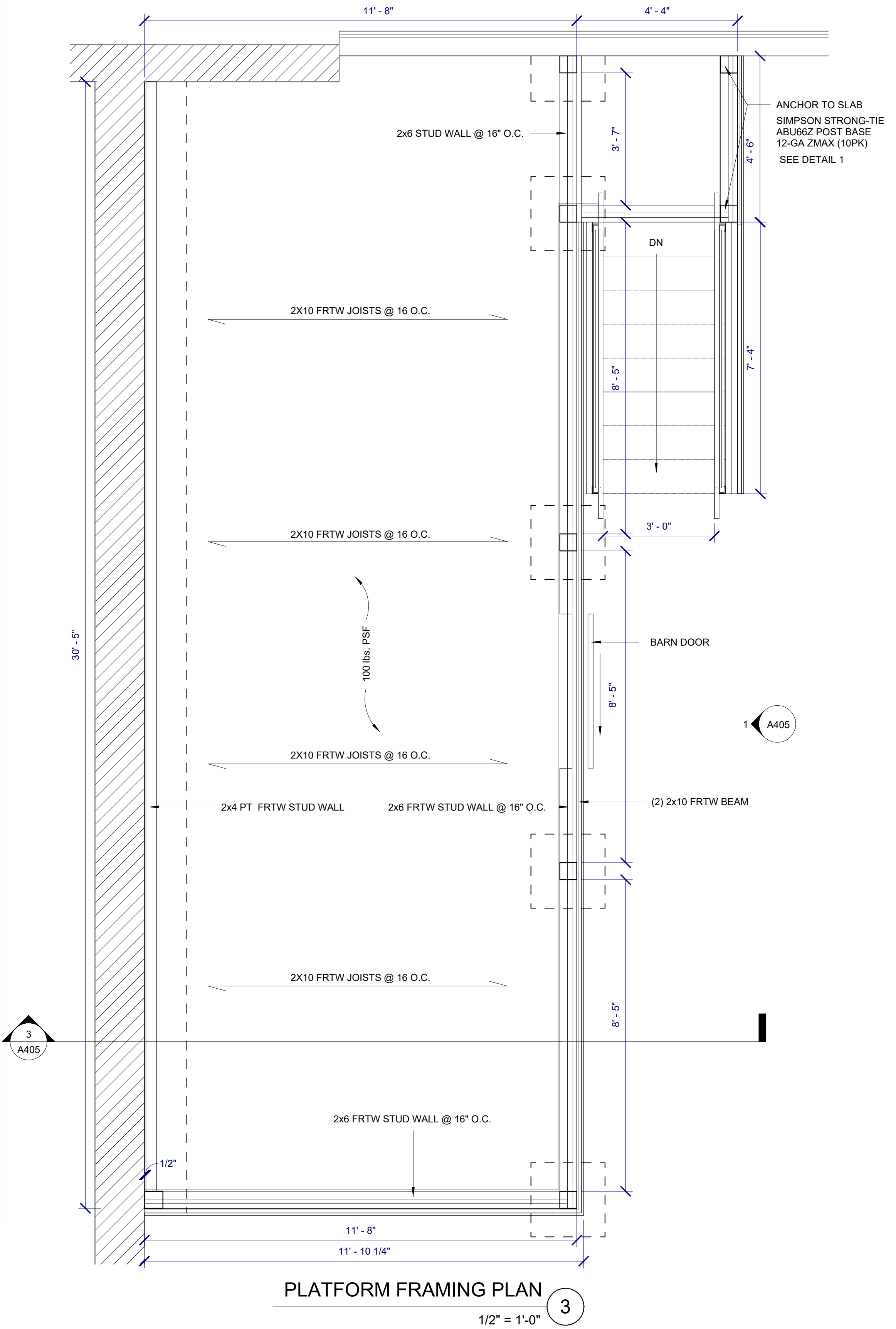
Note 1:
All framing materials shall be constructed from FRTW.

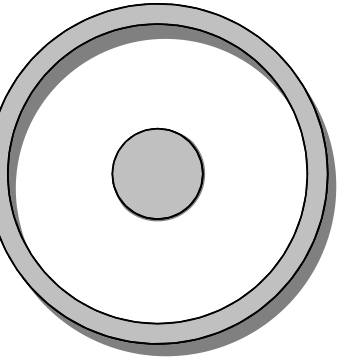
The 2018 International Building Code clarifies that fire-retardant-treated wood (FRTW) manufactured without using the pressure process must be impregnated with chemicals.



WOOD JOIST MAX SPAN - AMERICAN WOOD COUNCIL

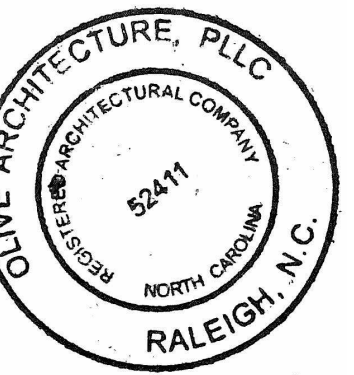
Max Span Results	
Maximum Horizontal Span	12 ft 9 in
Minimum Bearing Length, Each End	▽1'-1/16 in (1.03 in)
Max Span Parameters	
Adjusted Modulus of Elasticity (E')	1,900,000 psi
Adjusted bending design value (Fb')	2,242 psi
Adjusted shear design value parallel to grain (Fv')	175 psi
Adjusted compression design value perpendicular to grain (Fc⊥')	660 psi
Analysis Type	
	Max Span
Inputs	
Species:	Southern Pine
Size:	2x10
Grade:	Dense Select Structural
Member Type:	Floor Joists
Deflection Limit:	L/360
On-Center Spacing:	16 in
Live Load (psf):	100
Dead Load (psf):	20
Wet Service Conditions?	NO
Incised Lumber?	NO





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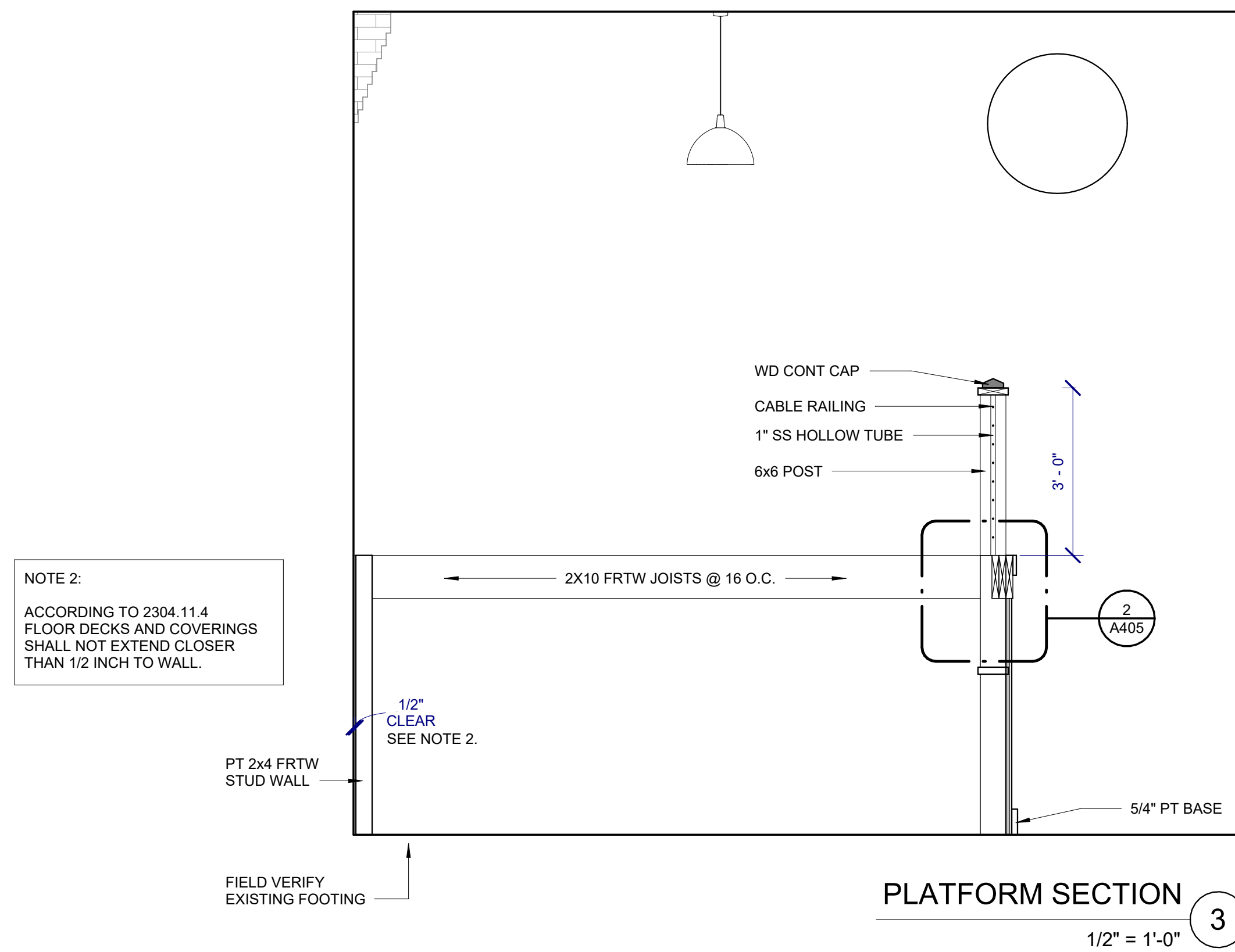
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ELEVATED PLATFORM
SECTIONS & DETAILS

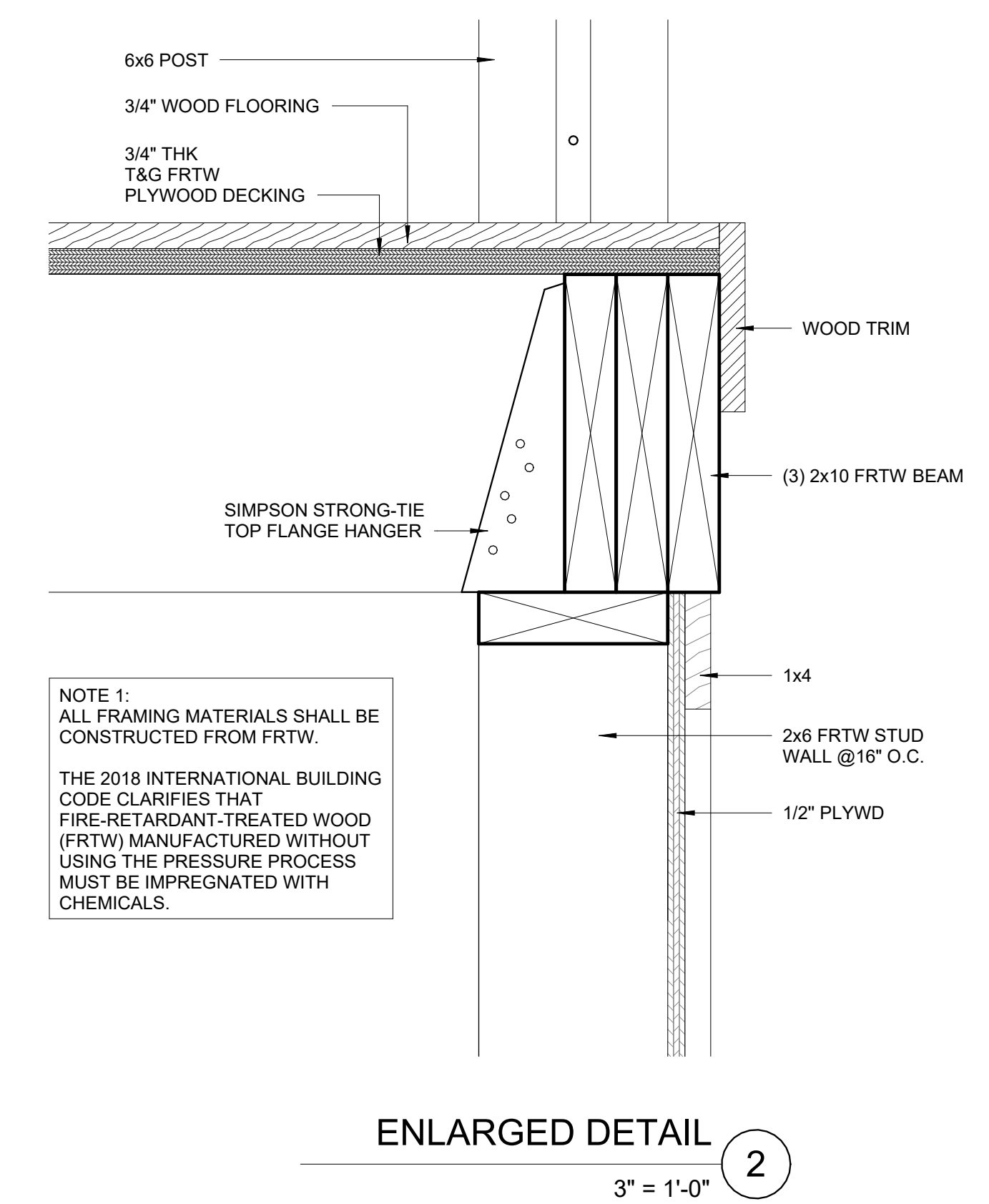
A405

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NOTE 2:
ACCORDING TO 2304.11.4
FLOOR DECKS AND COVERINGS
SHALL NOT EXTEND CLOSER
THAN 1/2 INCH TO WALL.

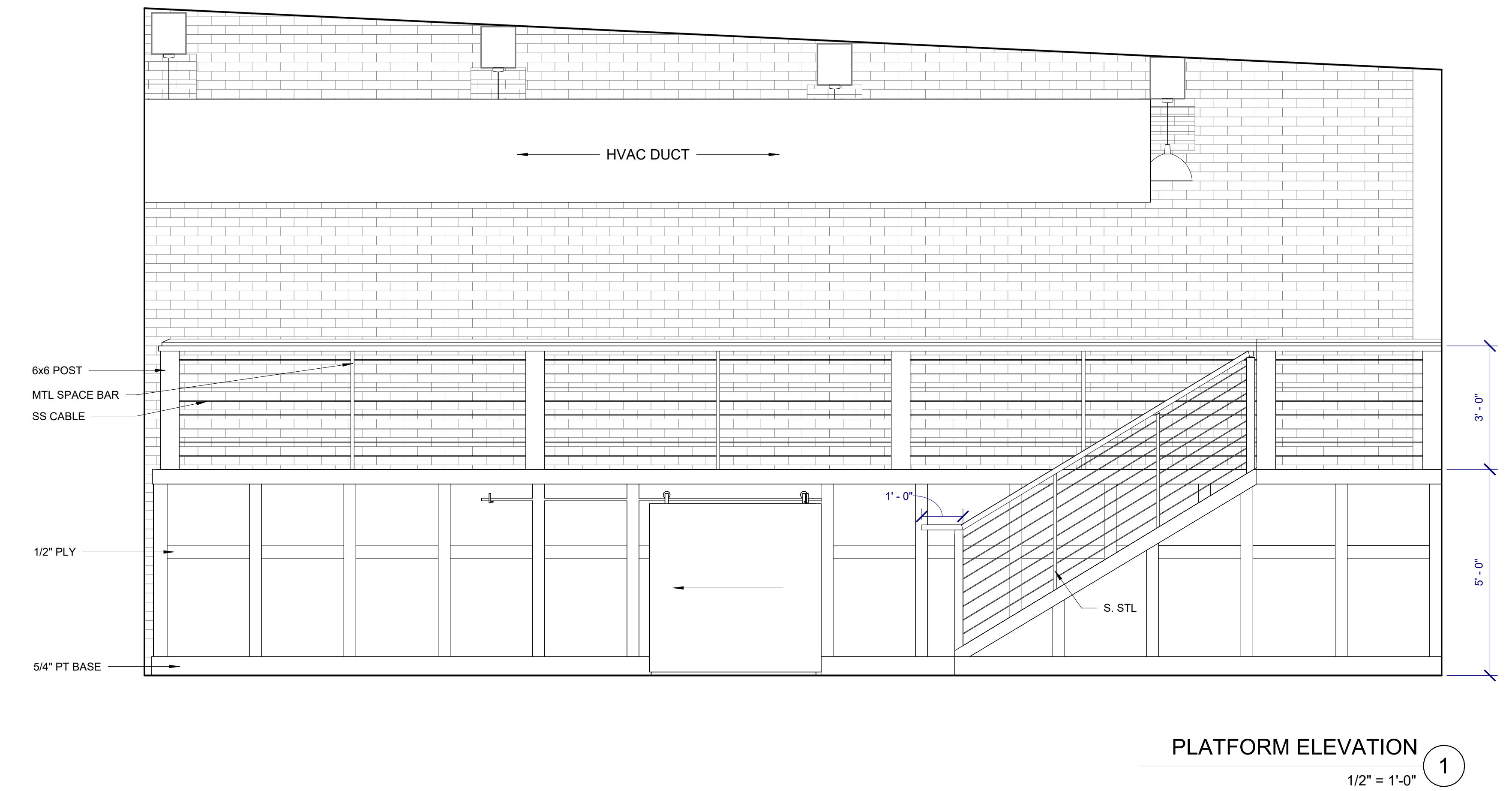
PLATFORM SECTION
1/2" = 1'-0" 3



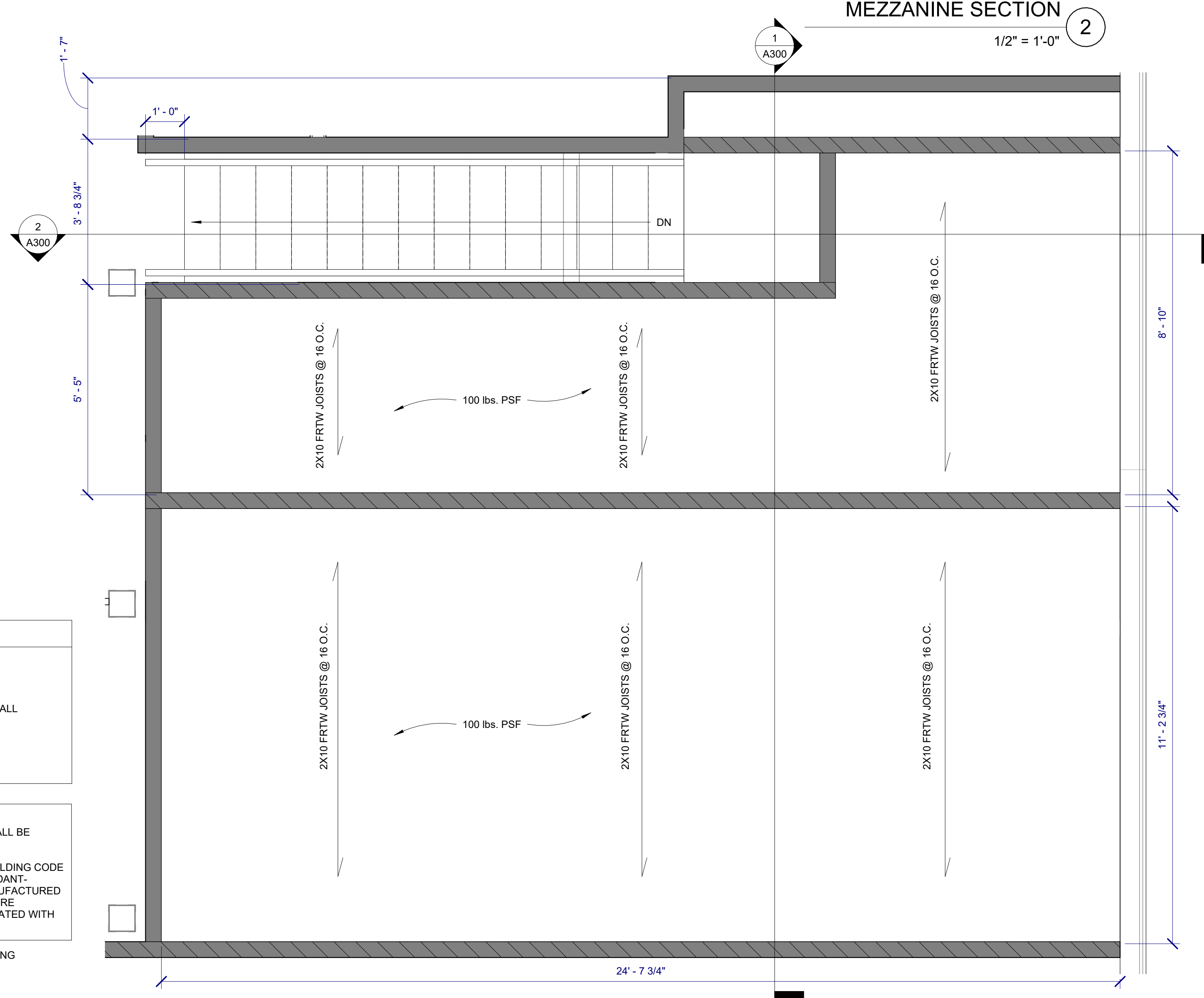
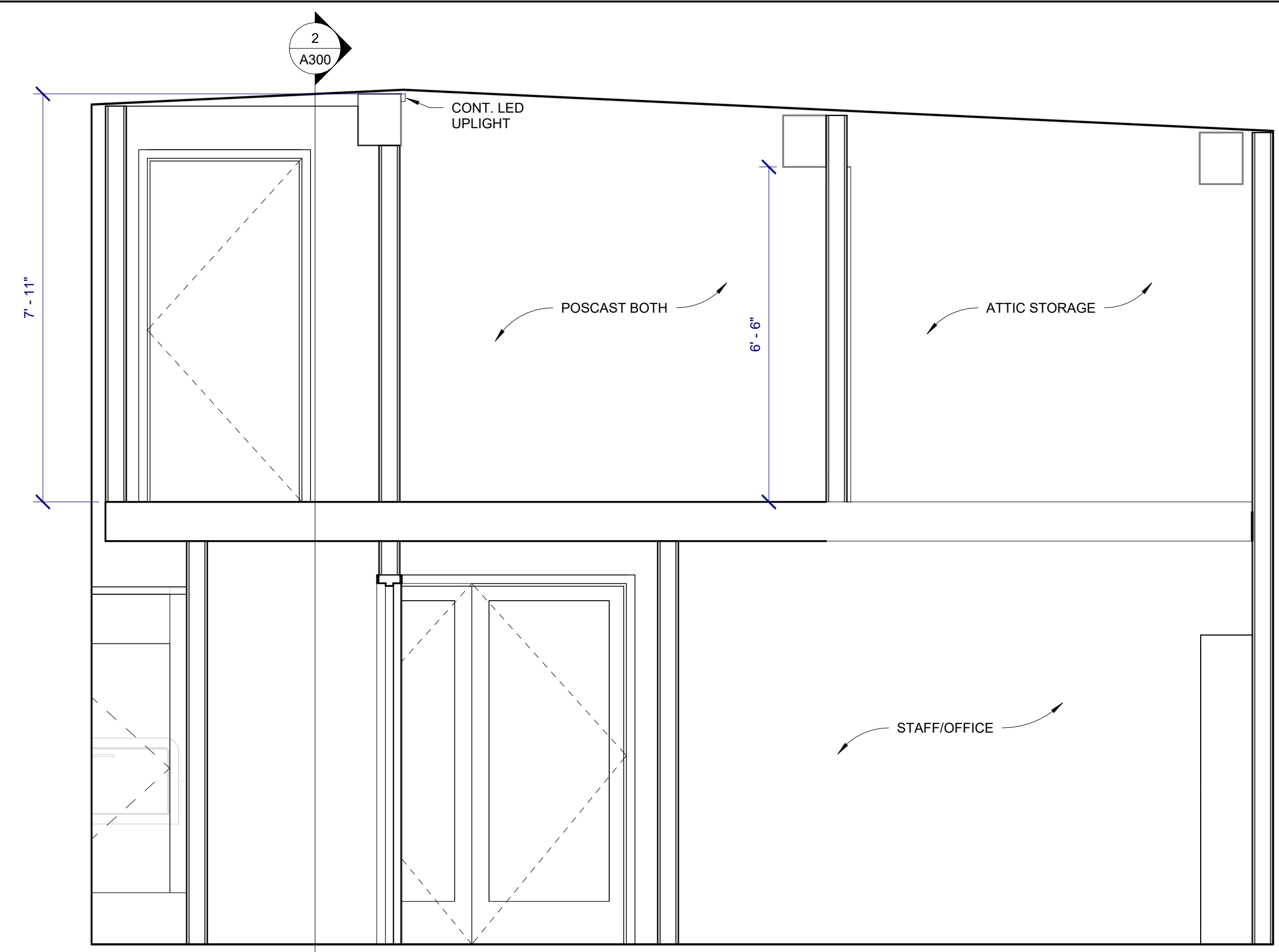
NOTE 1:
ALL FRAMING MATERIALS SHALL BE
CONSTRUCTED FROM FRTW.

THE 2018 INTERNATIONAL BUILDING
CODE CLARIFIES THAT
FIRE-RETARDANT-TREATED WOOD
(FRTW) MANUFACTURED WITHOUT
USING THE PRESSURE PROCESS
MUST BE IMPREGNATED WITH
CHEMICALS.

ENLARGED DETAIL
3" = 1'-0" 2



PLATFORM ELEVATION
1/2" = 1'-0" 1



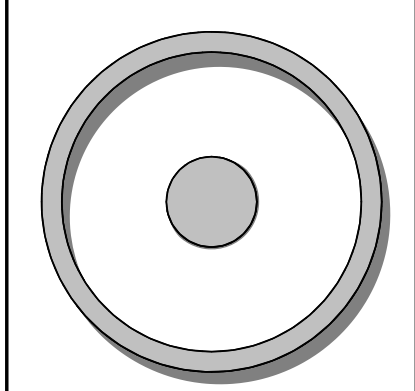
WALL HEIGHT KEY

	EXISTING WALL
	LOAD-BEARING WALL
	NEW WALL

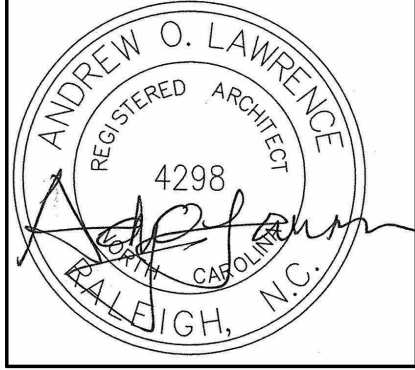
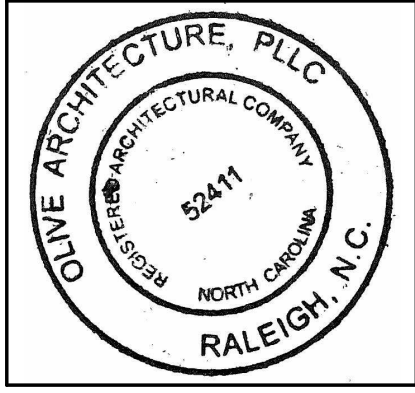
NOTE 1:
ALL FRAMING MATERIALS SHALL BE CONSTRUCTED FROM FRTW.

THE 2018 INTERNATIONAL BUILDING CODE CLARIFIES THAT FIRE-RETARDANT-TREATED WOOD (FRTW) MANUFACTURED WITHOUT USING THE PRESSURE PROCESS MUST BE IMPREGNATED WITH CHEMICALS.

OPTIONAL MTL. FLOOR FRAMING



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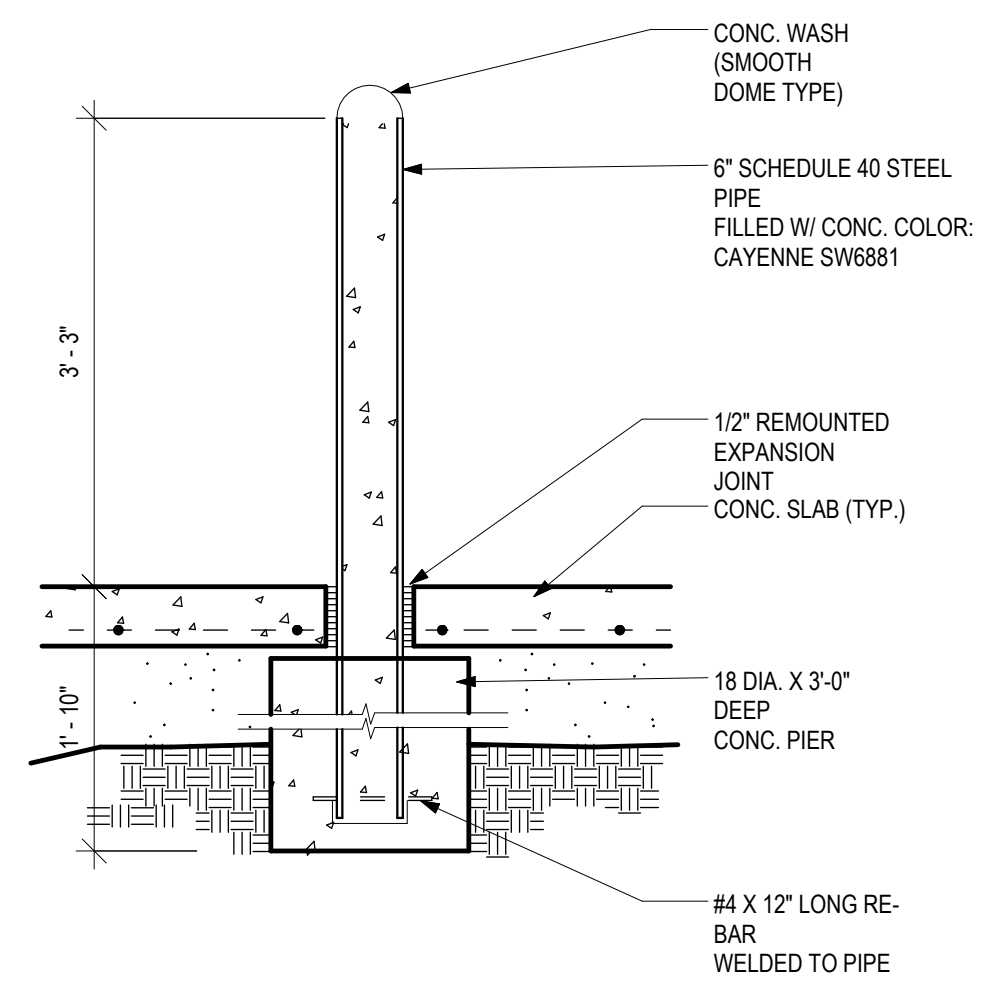
drawn by:

checked by:

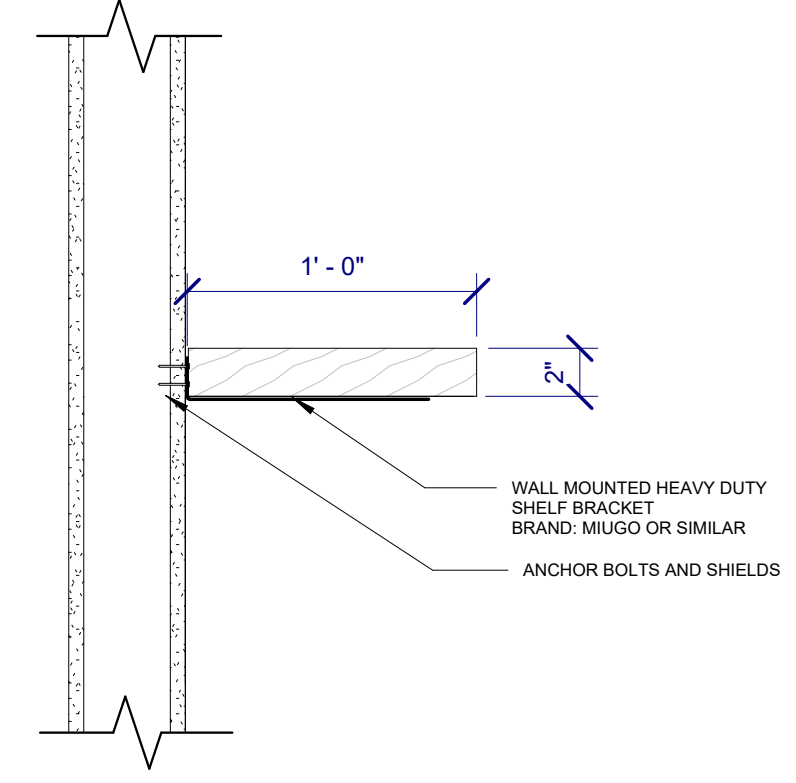
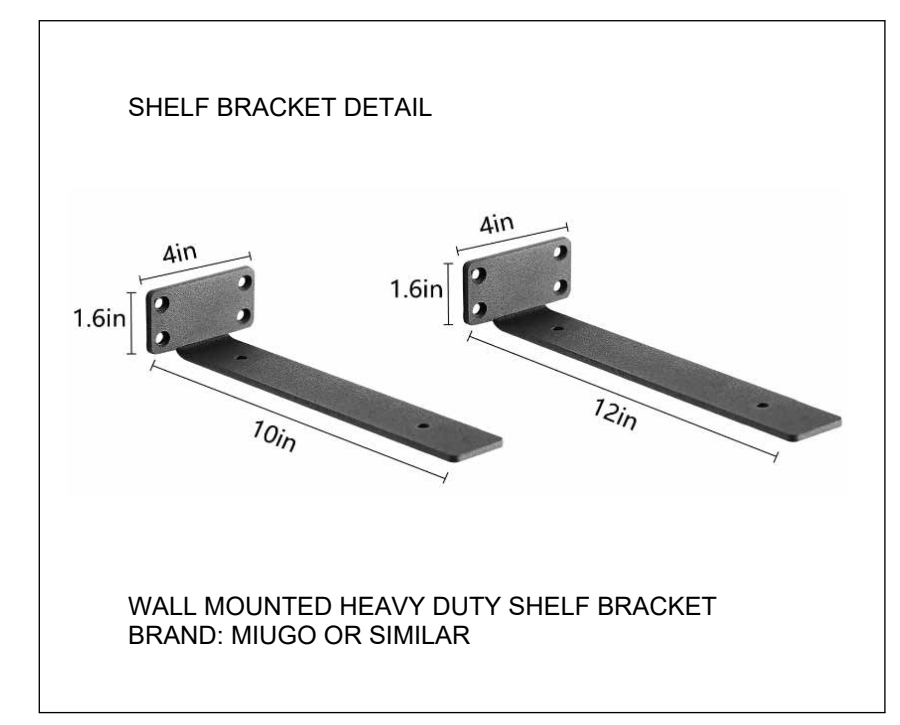
project no:
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MEZZANINE FRAMING PLAN & SECTIONS

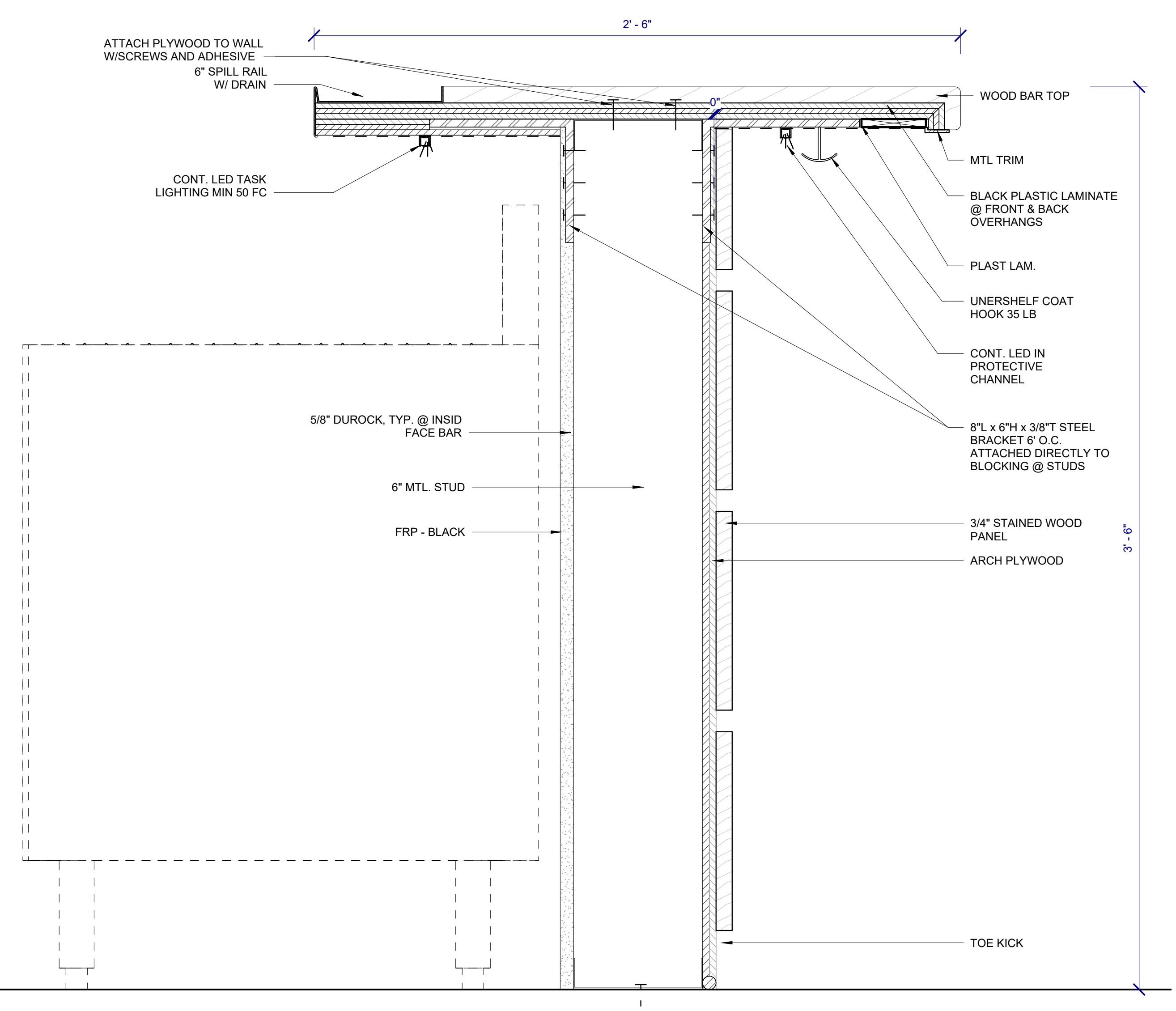
A406



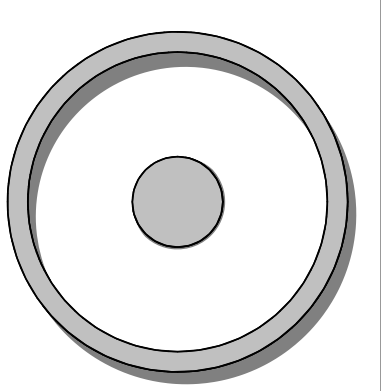
BOLLARD DETAIL
3/4" = 1'-0" 3



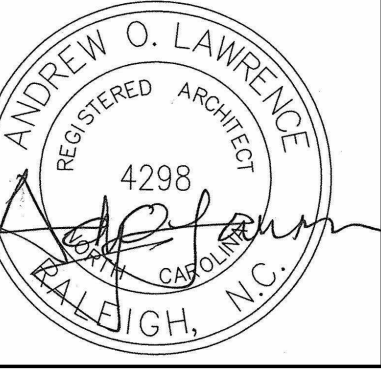
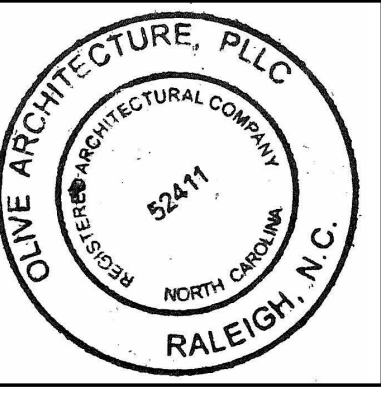
FLOATING SHELF DETAIL
1 1/2" = 1'-0" 2



BAR COUNTER DETAILS
3" = 1'-0" 1



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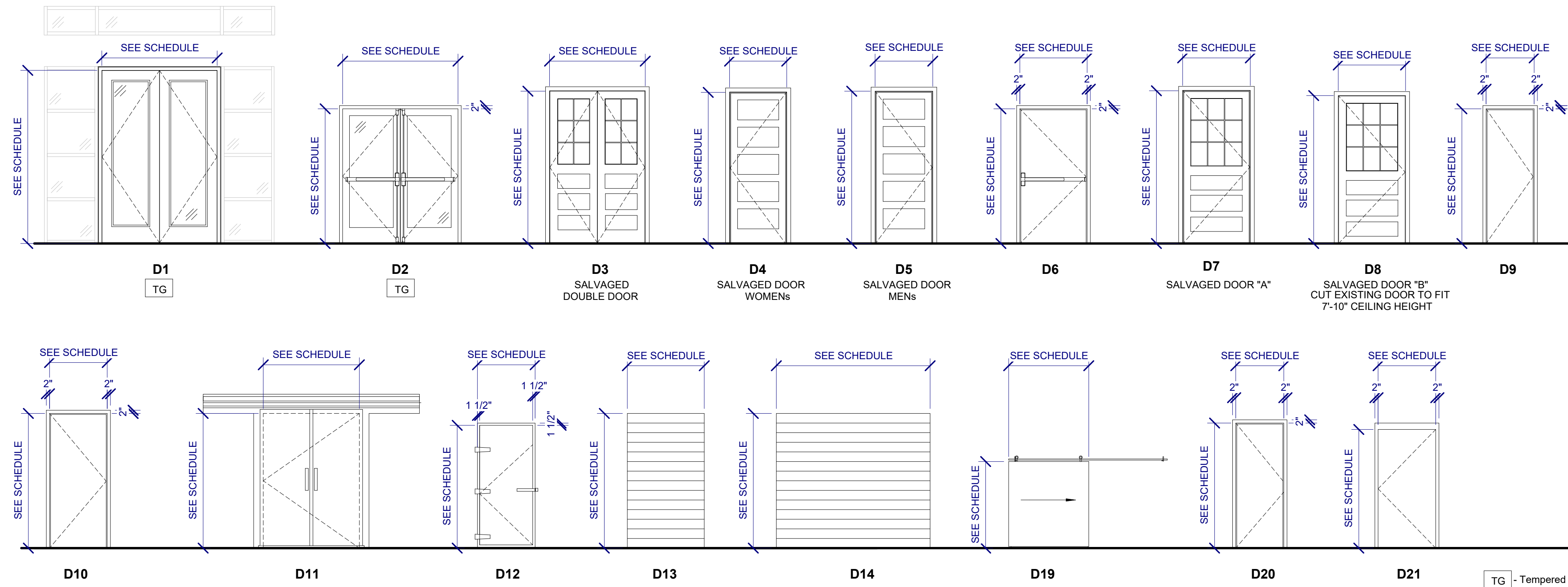
Revision	Date	Description

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checked by:
project no:
23-117

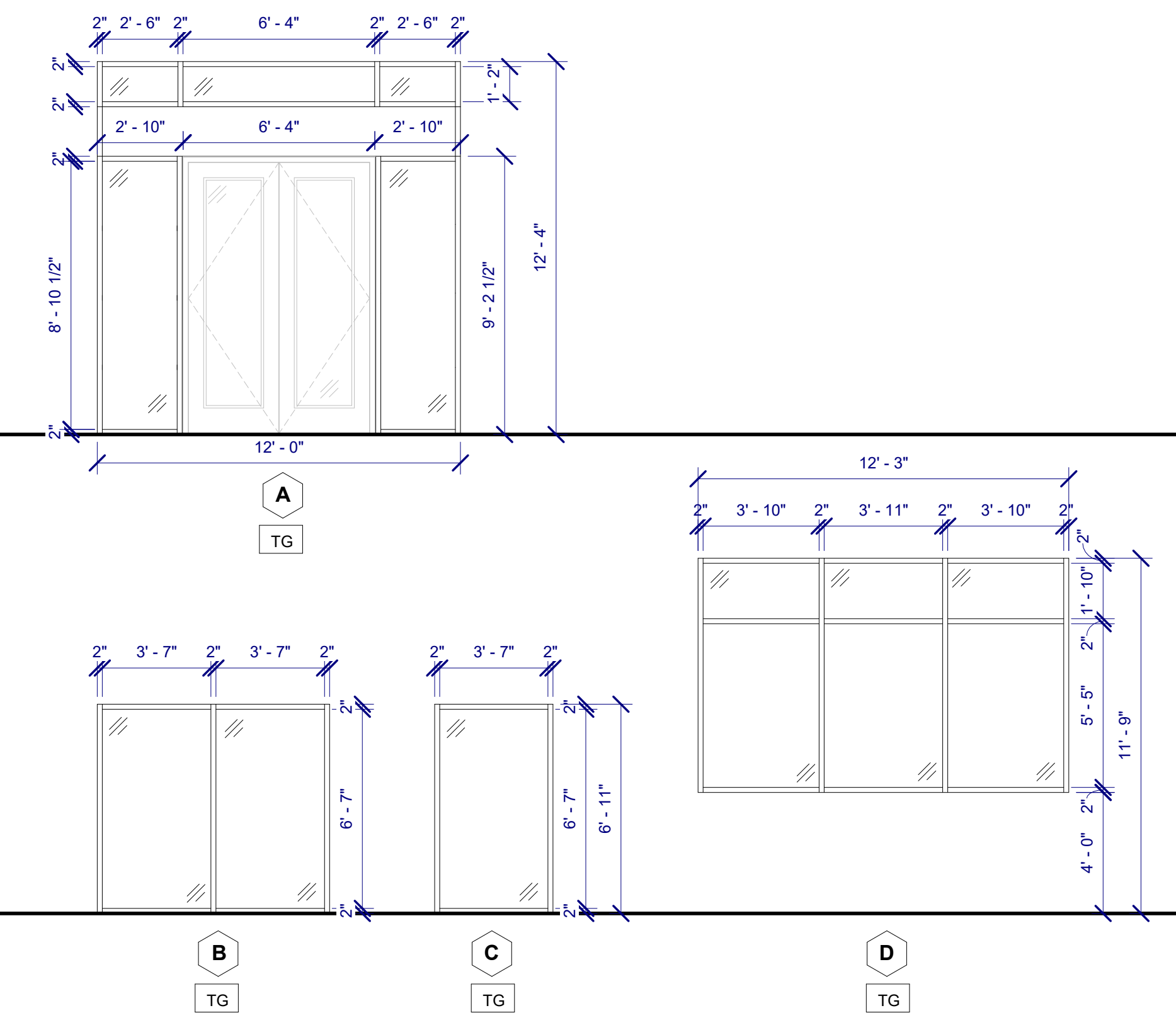
DETAILS
A500

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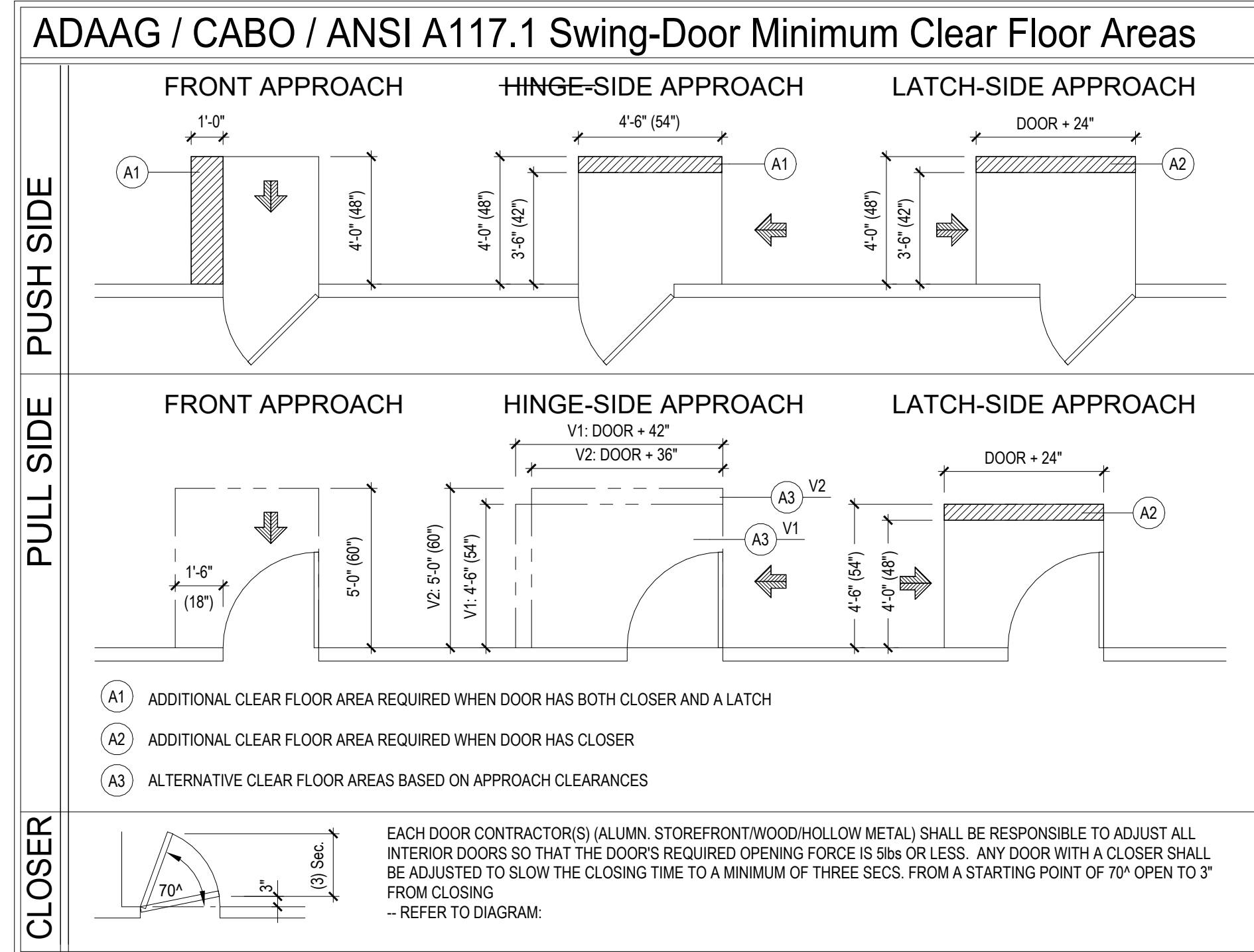
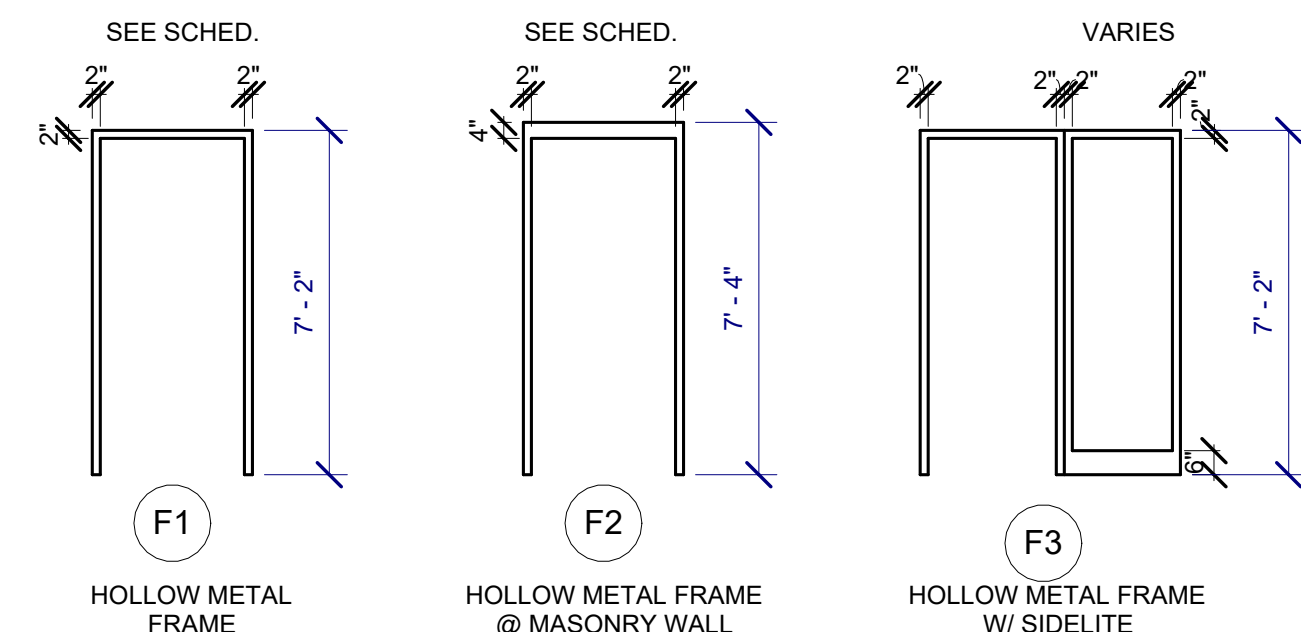
DOOR TYPES



WINDOW TYPES



FRAME TYPES & DETAILS



SCHEDULE

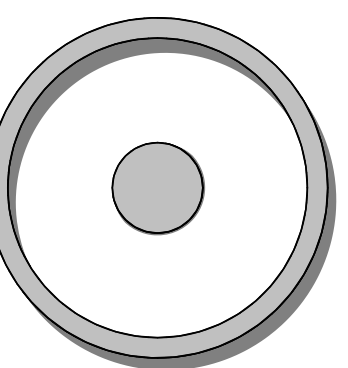
Door Schedule										
Mark	To Room	Type Mark	Width	Height	Thk.	Door Material	Frame Material	Fire Rating	Hardware Set	Comments
100	TAP ROOM	D1	6'-0"	9'-0"	4"	ALUM/GLASS	ALUM	60 Minutes	13	
100A	HALLWAY	D2	6'-0"	7'-0"	1 3/4"	ALUM/GLASS	ALUM		13	
100B	BREW HOUSE	D6	3'-6"	7'-0"	1 3/4"	HOLLOW MTL	HOLLOW MTL		13	
101	BOARD ROOM	D3	4'-11 1/4"	7'-11"	1 1/2"					SALVAGED DOOR
102	WOMENS	D4	2'-11 3/4"	7'-10 1/4"	1 1/2"					SALVAGED DOOR
103	MENS	D5	2'-11 1/2"	7'-10 3/4"	1 1/2"					SALVAGED DOOR
104	STORAGE	D9	2'-6"	7'-0"	1 3/4"	SCW	HOLLOW MTL			
105	KEG COOLER	D12	2'-9 1/4"	6'-6"	4"					
106	COLD STORAGE	D11	5'-0"	7'-0"	4"					
107	TAP ROOM	D7	3'-5 1/2"	7'-11"	1 1/2"					SALVAGED DOOR
108	TAP ROOM	D8	3'-5 3/4"	7'-8"	1 1/2"					SALVAGED DOOR
109	JANITOR'S	D9	2'-6"	7'-0"	1 3/4"	SCW	HOLLOW MTL			
110	STAFF TOILET	D9	2'-6"	7'-0"	1 3/4"	SCW	HOLLOW MTL			
111	STAFF/OFFICE	D10	3'-0"	7'-0"	1 3/4"	SCW				
112	GRAIN CRUSHER & DRY STORAGE	D13	4'-0"	7'-0"	3"					
113	BREW HOUSE	D14	8'-0"	8'-0"	3"					
115	TAP ROOM	D19	4'-0"	4'-2"	2"					
201	PODCAST BOOTH	D20	3'-0"	6'-8"	1 3/4"	SCW	HOLLOW MTL			
202	PODCAST BOOTH	D28	3'-0"	6'-2"	1 3/4"	SCW	HOLLOW MTL			

DOOR HARDWARE NOTES

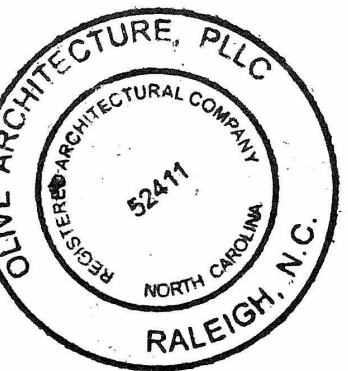
- HARDWARE VENDOR TO COORDINATE WITH OWNER ONE MASTER KEY FOR ALL EXTERIOR DOORS AND ONE MASTER KEY FOR ALL INTERIOR DOORS WITH OFFICE LOCKSET.
- LEVER W/ PASSAGE LOCKSET
 - LEVER W/ OFFICE (KEYED) LOCKSET.
 - LEVER W/ PRIVACY LOCKSET
 - CLOSER W/ 90 DEGREE LIMITER
 - SET OF DOOR SILENCERS
 - SET OF FULL MORTISE HINGES
 - ADA SIGNAGE, W/ BRAILLE & ADA SYMBOL
 - FLOOR STOP
 - EXISTING HARDWARE TO REMAIN
 - HD OVERLAP SLIDING DOOR HARDWARE
 - HD POCKET DOOR FRAME, TRACK & HARDWARE
 - RECESSED MORTISED PULLS
 - PANIC HARDWARE
 - PROVIDE SIGNAGE TO SAY "DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS"
 - HOLD OPEN CLOSER

NOTE 1:
EGRESS DOORS (G100) SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT

DOOR RATING LEGEND		
	WALL RATING	DOOR RATING
EXTERIOR	1 HR	45 MIN
	2 HR	90 MIN
	3 HR	90 MIN
INTERIOR	1 HR	60 MIN
	(SHAFTS & EXITS)	
	(OTHER)	45 MIN
	1.5 HR	90 MIN
	2 HR	90 MIN



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GRAIN DEALERS BREWERY
100 North 13th St, Bay K
Erwin, NC

ISSUE DATE:
ISSUE NAME DATE
1ST BID SET 06/18/2024
1ST PERMIT SET 07/22/2024

REVISIONS:

Revision	Date	Description

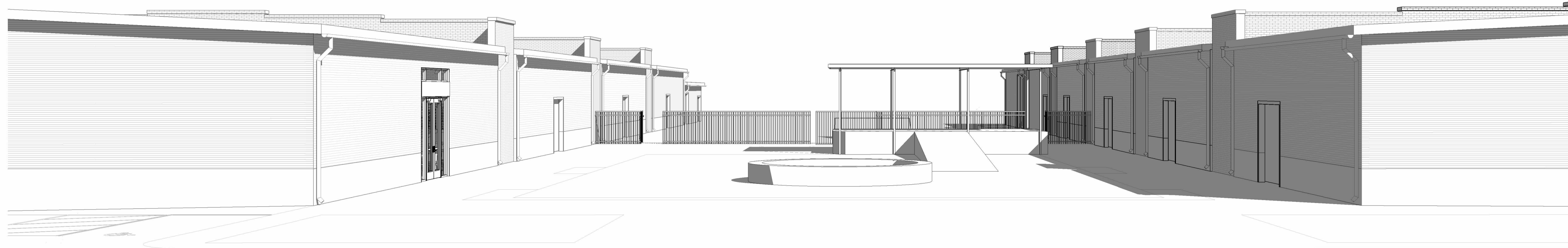
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23-117

DOOR & WINDOW SCHEDULE

A600



Perspective view 1



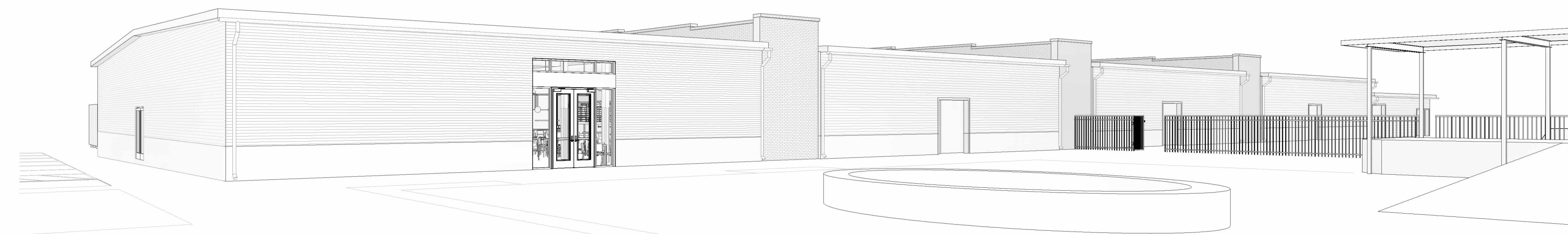
PERSPECTIVE VIEW 2



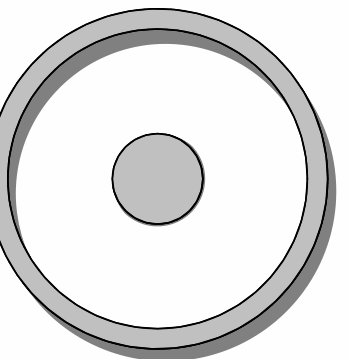
PERSPECTIVE VIEW 5



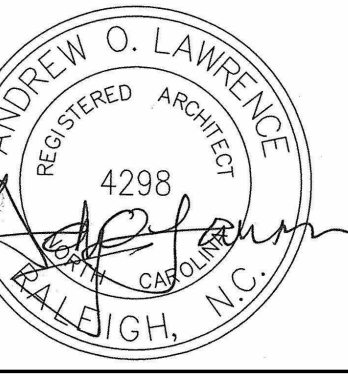
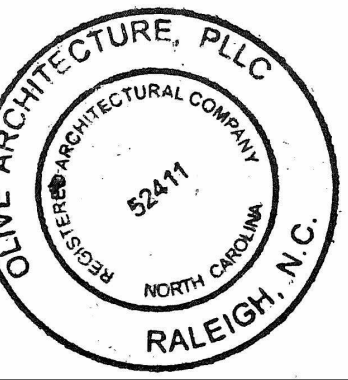
PERSPECTIVE VIEW 4



PERSPECTIVE VIEW 3



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23-117

PERSPECTIVES
A900



PERSPECTIVE VIEW 4



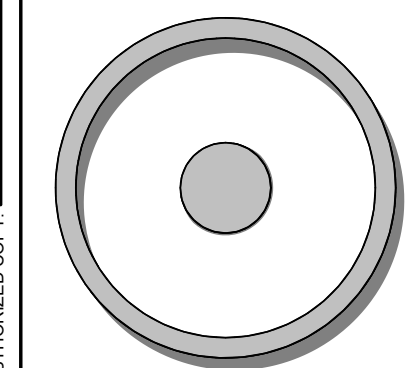
PERSPECTIVE VIEW 1



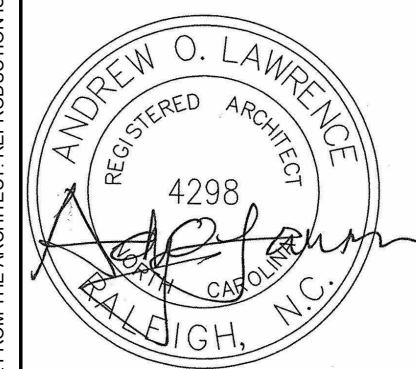
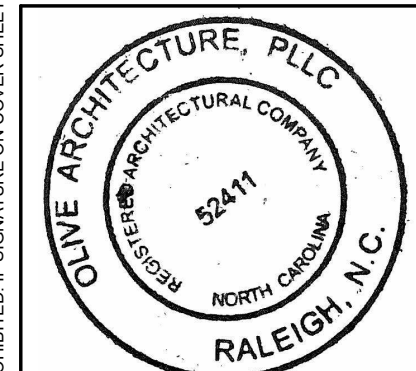
PLATFORM PERSPECTIVE 3



PERSPECTIVE VIEW 2



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project no:
23-117

INTERIOR
PERSPECTIVES

A901

DIVISION 15A — PLUMBING

- 1.1 DESCRIPTION OF THE WORK**
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:**
1. Plumbing fixtures, water heaters, and any other equipment necessary.
 2. Cold and hot water piping and insulation.
 3. DWV piping.
 4. Natural gas piping.
 5. Connection of all equipment; drain, vent, water, gas.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.**
1. The National Electrical Code.
 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
 3. American Society of Sanitary Engineering Standard 1010.
 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.**
- D. The Plumbing Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.**
- E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.**
- 1.2 INTENT**
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner. The PC shall determine and coordinate with existing conditions.**
- 1.3 COORDINATION**
- A. Coordinate work with other contractors. Notify Architect of potential conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.**
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.**
- C. Coordinate all exterior piping connections w/Architect, site contractor/plumber. Verify manhole elevations and provide backwater valves as required if floor level rises are below next upstream manhole cover elevation. Fixtures with floor level rises above upstream manhole shall not discharge thru w/valve. Notify engineer of backwater valve requirement, any issue prior to bid.**
- 1.4 SHOP DRAWINGS**
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.**
- PART 2 — PRODUCTS**
- 2.1 FIXTURES**
- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.**
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.**
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.**
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.**
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.**
- 2.2 PIPING**
- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage/discharge with a temperature greater than 140 deg. F for a minimum distance of 10'-0".**
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings.**
- C. Cold water piping below grade: Type "K" copper (ASTM-B8A) soft drawn.**
- D. Natural gas piping shall be black steel pipe with screwed or welded joints. Support all piping as required by code. Use commercial style hangers, pipe strapping will not be allowed. Provide dirtleg, union, shut-off valve and flexible connection to all equipment. Pressure test all piping prior to putting into use. Verify size requirements prior to installation. Coordinate requirements with local gas company prior to submitting bid. Provide all components necessary for a complete operation system. Label piping per code. Paint exterior and exposed gas lines per code and building owner.**
- E. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.**
- F. Solder: 95/5. Lead free.**
- G. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.**
- 2.3 CLEANOUTS**
- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.**
- 2.4 SHOCK ARRESTERS**
- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for quality construction. Provide for all quick closing valves.**
- PART 3 — EXECUTION**
- 3.1 CONNECTIONS**
- A. This contract includes complete connection of cold water, hot water, drain, vent, and natural gas piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.**
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.**
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.**
- 3.2 SERVICE ACCESS**
- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.**
- 3.3 ROUTING OF PIPING**
- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.**
- B. Space pipe hangers per NCSBC- Plumbing Sect. 308.5 and Fuel Gas Code Sect. 415.1.**
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.**
- 3.4 INSULATION**
- A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R=6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code.**
- B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.**
- 3.5 INSPECTIONS AND TESTS**
- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.**
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.**
- 3.6 STERILIZATION OF PIPING**
- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.**
- 3.7 SERVICE PRESSURE**
- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.**
- 3.8 DRAINDOWN**
- A. Contractor to provide for complete plumbing system drain down.**
- 3.9 CLEAN UP**
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.**
- 3.10 GUARANTEES**
- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.**
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.**

GENERAL NOTES — PLUMBING

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOORPLAN LAYOUTS. DO NOT USE ENGINEERING DRAWINGS FOR ROUGH-INS.
5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 — HOURS AT 150 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
11. PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 140 DEGREES (MAX.) F; PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F; VERIFY LTHW FROM ALL HAND/BAR SINK, RESTROOM LAVATORY FAUCETS. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) WHERE REQUIRED, AND PER CODE WHETHER OR NOT SHOWN ON PLANS.
12. PROVIDE CLEANOUTS AS REQUIRED BY CODE, NOT MORE THAN 100 FEET FOR 4" DRAIN.

SYMBOL LEGEND — PLUMBING

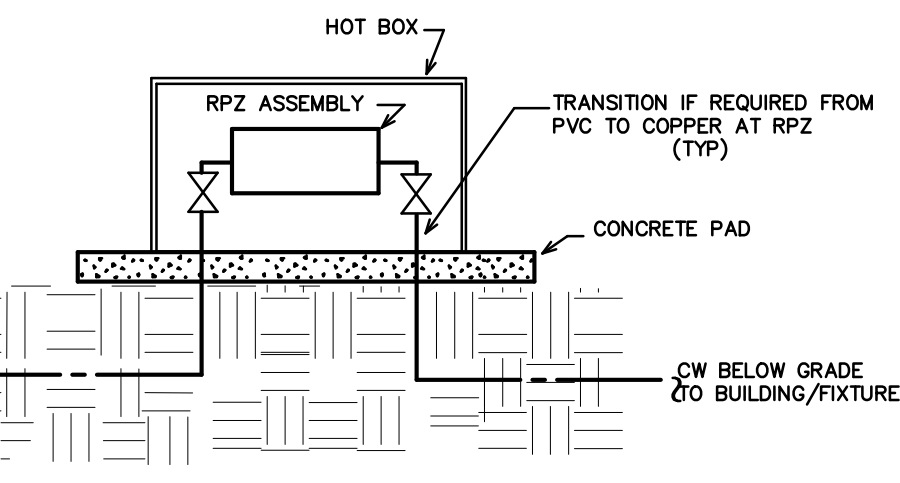
SYMBOL	DESCRIPTION (U.O.N.)
	SANITARY WASTE PIPING (W)
	VENT PIPING (V)
	NATURAL GAS PIPING (G)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F
	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
	HW RETURN PIPING (HWR)
	CHECK VALVE
	BALANCING VALVE
	CIRCULATION PUMP
	SHUT-OFF VALVE
	DIELECTRIC UNION
	CLEANOUT FINISH FLOOR
	WALL/HORIZONTAL CLEANOUT
	CLEANOUT FINISH GRADE—PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
	VENT THRU ROOF (VTR)
	ABOVE FINISHED FLOOR
	AIR ADMITTANCE VALVE
	UNLESS OTHERWISE NOTED

LOAD SUMMARY — PLUMBING

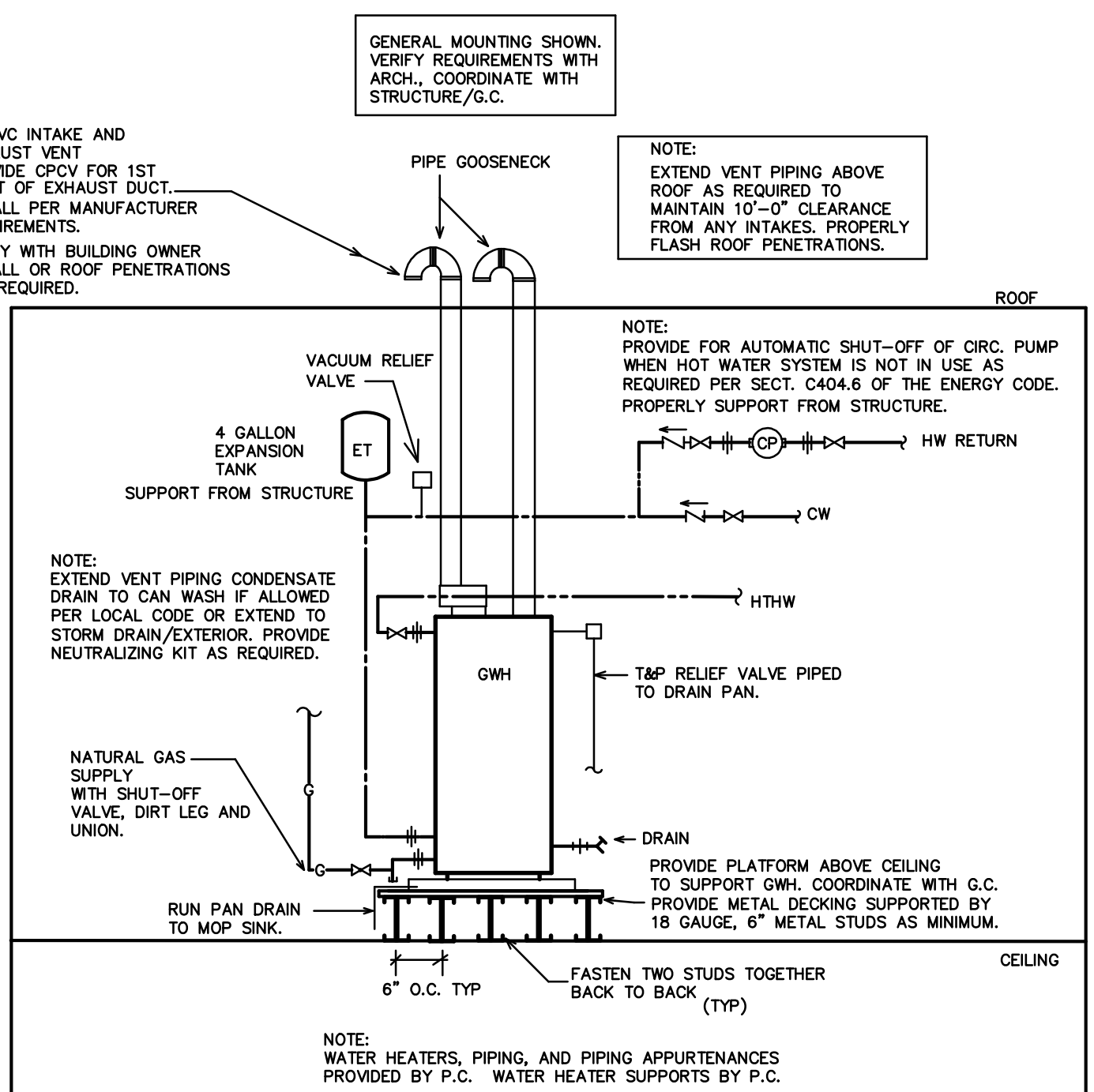
WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
72.0	81.0	38.3

WATER HEATER SIZING

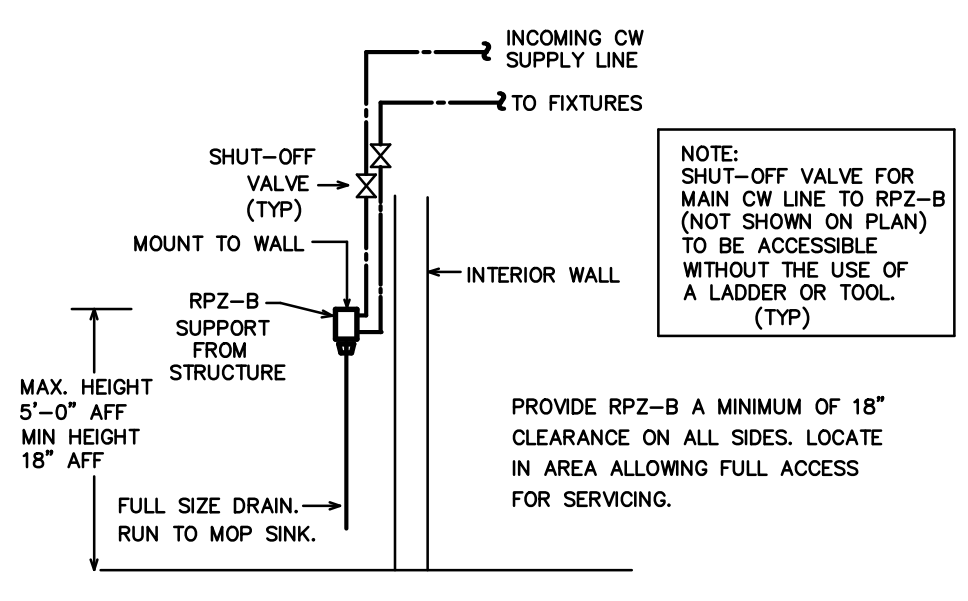
AMOUNT	ITEM	GPH
1	2 COMP BAR SINK	29.1
1	3 COMP BAR SINK	43.6
3	HAND/BAR SINK	15.0
5	LAVATORY	25.0
1	CAN WASH	5.0
TOTAL		117.7 GPH
		117.7 X 0.9 = 105.9 GPH



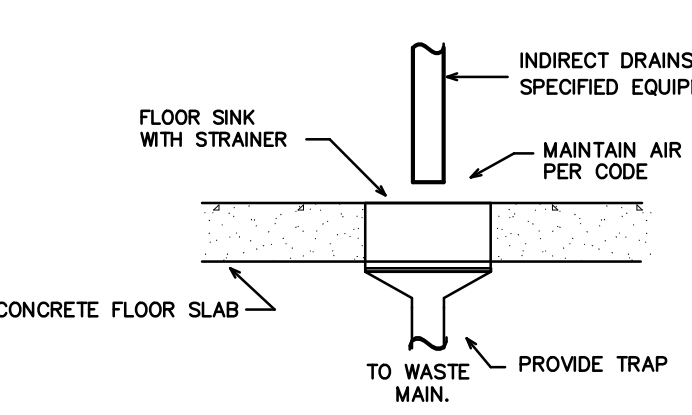
1 RPZ/HOT BOX DETAIL
SCALE: NOT TO SCALE



4 GWH DETAIL
SCALE: NOT TO SCALE



2 RPZ-B MOUNTING DETAIL
SCALE: NOT TO SCALE

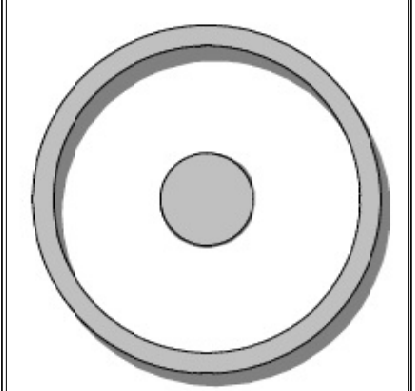


3 FLOOR SINK DETAIL
SCALE: NOT TO SCALE

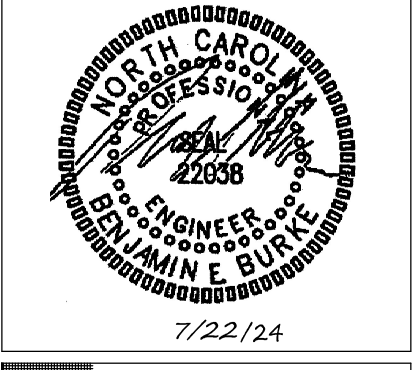
FIXTURE SCHEDULE — PLUMBING *

CP* CIRCULATING PUMP TACO MODEL 110, 115 VOLT, 1/12 HP. SECURELY SUPPORT FROM STRUCTURE. PROVIDE AQUASTAT, TIMER, CHECK VALVES AS REQUIRED.	MS* MOP SINK BASIN WITH FAUCET BASIN— FLORESTONE MODEL MSR-3636 MOLDED MOP RECEPTOR, 3" DRAIN SIZE. INTEGRAL DRAIN REQUIRES MINIMUM 6" DIAMETER X 1 1/2" DEEP RECESS IN SUBFLOOR. LEVEL AS NEEDED, USE WEDGE-LOCK SEAL PER MANUFACTURER'S SPECIFICATIONS. USE WATER TO CHECK FOR PROPER DRAINAGE UPON ATTACHING DRAIN PIPE AND PRIOR TO FINISHING WALLS. VERIFY SIZE PRIOR TO ORDERING. FAUCET— SPEAKMAN MODEL MR-371 FAUCET WITH VACUUM BREAKER. PROVIDE 5" HOSE W/HANGER BRACKET AND MOP HANGER.
ET* EXPANSION TANK AMTRON MODEL ST-12, 4.4 GALLON, STEEL CONSTRUCTION, NON-ASME RATED.	RPZ-B* 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER (TO SERVE BREWERY EQUIPMENT) WATTS MODEL #F00M2Q2, 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER, 'LEAD FREE' CONSTRUCTION. VERIFY INSTALLATION LOCATION/CLEARANCES.
FS-1* FLOOR SINK #1 WATTS PVC FLOOR SINK MODEL FS-500, 12" X 12", WITH 3" PIPE CONNECTION. VERIFY GATE REQUIREMENTS.	RPZ* 2" REDUCED PRESSURE BACKFLOW PREVENTER W/HOT BOX WATTS MODEL #F009M2Q2, 2" REDUCED PRESSURE BACKFLOW PREVENTER, 'LEAD FREE' CONSTRUCTION. PROVIDE WATTSBOX FIBERGLASS ENCLOSURE MODEL WB-2, WITH 90W HEAT CABLE. PROVIDE 3" POURED IN PLACE CONCRETE SLAB 2" LARGER ON EACH SIDE THAN HOT BOX. VERIFY WITH AHJ SPECIFICATIONS.
FS-2* FLOOR SINK #2, #3 WATTS CAST IRON FLOOR SINK W/CAST IRON GRATE, MODEL FS-733-22, 12" X 12", WITH 3" PIPE CONNECTION. VERIFY GATE REQUIREMENTS.	TD* TRENCH DRAIN J. R. SMITH MODEL #9930 POLYPROPYLENE SLOPED TRENCH DRAIN SYSTEM, 4" OUTLET, 1 METER SECTIONS, STAINLESS STEEL GRATE 9870-450-SS OR PROVIDE 9870-447-SSADA MODEL GRATE IF ADA COMPLIANCE IS REQUIRED (VERIFY). PROVIDE REQUIRED NUMBER OF CHANNEL SECTIONS BY LENGTH NEEDED FOR EACH TRENCH DRAIN. FIELD TRIM AT SHALLOW END OF CHANNEL AS NEEDED. PROVIDE STRAINER OR SEDIMENT BASKET AT ALL LOCATIONS. INSTALL PER MFR'S SPECS. PROVIDE MITER/CUSTOM SECTIONS IF REQUIRED. VERIFY EXACT MODEL/GRATE WITH OWNER/ARCH.
FS-4* FLOOR SINK #4-6 WATTS PVC FLOOR SINK MODEL FS-500, 12" X 12", WITH 2" PIPE CONNECTION. VERIFY GATE REQUIREMENTS.	UR* URINAL KOHLER MODEL K-5016-ET, 3/4" TOP SPUD, ADA COMPLIANT W/PROPER INSTALL, 0.5 GPF, 2" OUTLET DRAIN. PROVIDE SLOAN G2 #186-0.5 BATTERY SENSOR FLUSH VALVE, 0.5 GPF. PROVIDE/VERIFY VALVE WITH OVERRIDE BUTTON.
FS-6* FLOOR SINK #4-6 WATTS PVC FLOOR SINK MODEL FS-500, 12" X 12", WITH 2" PIPE CONNECTION. VERIFY GATE REQUIREMENTS.	WC* WATER CLOSET (FLUSH TANK) KOHLER HIGHLINE WATER CLOSET, K-3979, ADA COMPLIANT 1.6 GPF. PROVIDE WITH K-4731 ADA SEAT, K-7637 SUPPLY AND STOP, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR. KOHLER WELLWORTH #K-3978 MAY BE USED WHERE ADA COMPLIANCE MODEL NOT REQUIRED (VERIFY W/ARCH).
GW* NATURAL GAS WATER HEATER AO SMITH MODEL B7X-100, DIRECT VENT, 100,000 BTUH, 50 GALLON, 1" INLET AND OUTLET, 115 GPH RECOVERY AT 100 DEGREE RISE. PROVIDE PROPER EXHAUST AND INTAKE VENTS PER MANUFACTURERS RECOMMENDATION. VERIFY INSTALLATION CLEARANCES PRIOR TO ORDERING.	
S1* BREAK ROOM SINK ELKAY LR1517 SINGLE BASIN STAINLESS STEEL SINK (MODEL LRAD1517 IF ADA COMPLIANCE REQUIRED), 18 GA., SELF-RIMMING, FURNISHED WITH THREE FAUCET HOLES AND CENTER DRAIN. PROVIDE ELKAY FAUCET MODEL LK10AT02Z WITH TWO LEVER HANDLES, CHROME PLATED BRASS P-TRAP AND SHUT-OFF VALVES. COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETRY PRIOR TO ORDERING.	
S2* WALL MOUNT HAND SINK EAGLE GROUP MODEL HSA-10-FAW, SINGLE BASIN, WALL MOUNT STAINLESS STEEL SINK, FURNISHED WITH GOOSENECK FAUCET W/BLADE HANDLES AND P-TRAP. PROVIDE PROPER SHUT-OFF VALVES. COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR.	
L1* LAVATORY (COUNTERTOP) KOHLER PENNINGTON SELF RIMMING COUNTERTOP LAVATORY, K-2196, WHITE COLOR, ADA COMPLIANT, PROVIDE SLOAN OPTIMA #EF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.	
L2* LAVATORY (WALL MOUNTED) KOHLER CHESAPEAKE LAVATORY, K-1722, WHITE COLOR, ADA COMPLIANT. PROVIDE SLOAN OPTIMA #EF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.	

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE OWNER AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.



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issue date:
ISSUE NAME DATE
1ST PERMIT SET 7/22/2024

revisions:
Revision Date Description

drawn by:
MRH
checked by:
BEB
project no:
23-117

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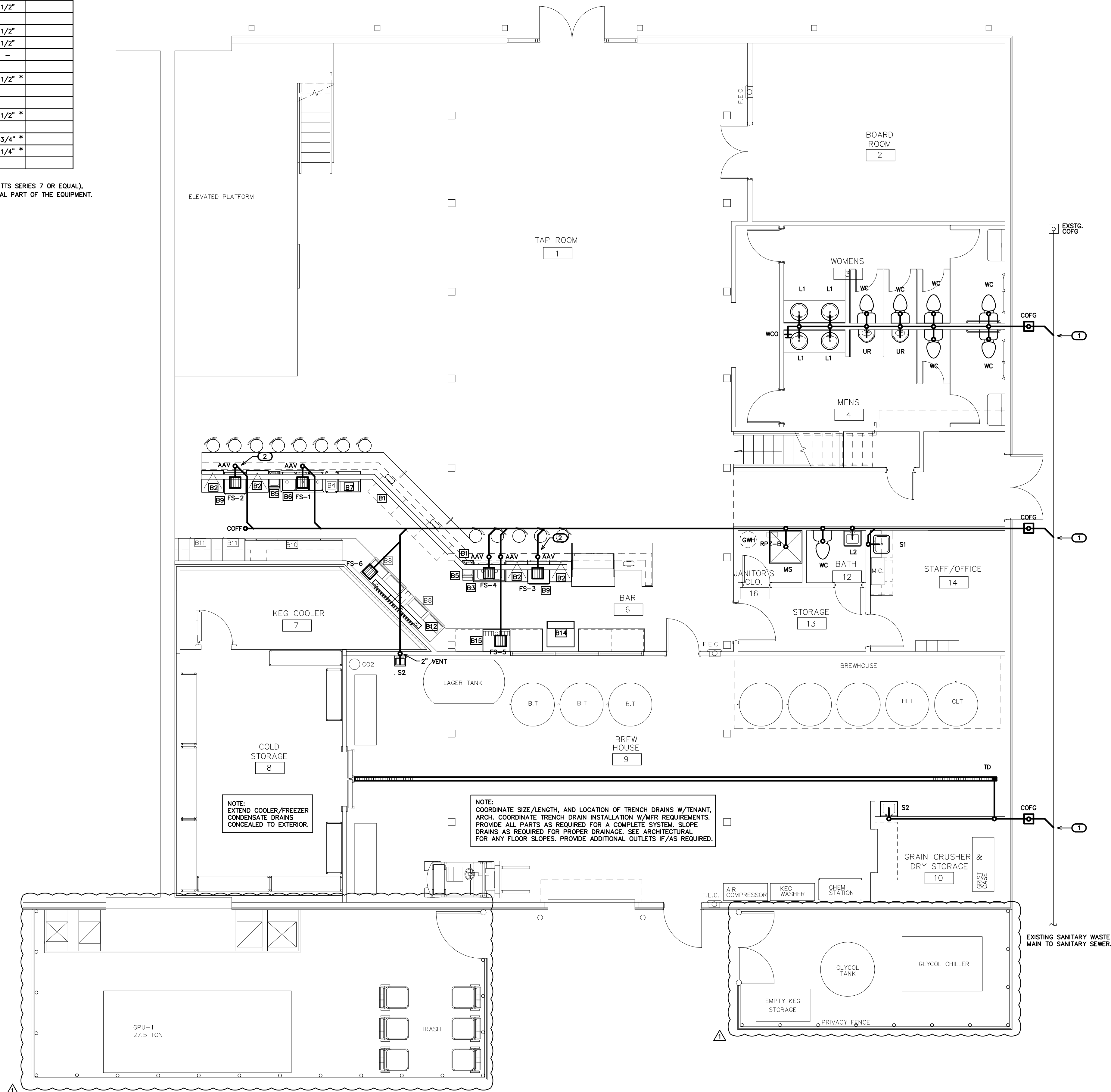
P1

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

EQUIPMENT SCHEDULE

ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
			WASTE	HW	CW	GAS (BTUH)
B1	2	SPILL RAIL	1/2"	-	-	
B2	4	GLASS RACK	1/2"	-	-	
B3	1	TWO COMPARTMENT SINK	1-1/2"	1/2"	1/2"	
B4	2	TRASH CAN				
B5	2	HAND SINK	1-1/2"	1/2"	1/2"	
B6	1	3 COMPARTMENT SINK	1-1/2"	1/2"	1/2"	
B7	1	ICE BIN	1"	-	-	
B8	2	GLASS FROSTER				
B9	2	WAREWASHER (HI-TEMP)	3/4"	-	1/2" *	
B10	1	BOTTLE REFRIGERATOR				
B11	2	BACK BAR REFRIGERATOR				
B12	LOT	DRIP TRAY	1/4"	-	1/2" *	
B13	1	BEER TAPS				
B14	1	ICE MACHINE W/BIN	1"	-	3/4" *	
B15	1	BEVERAGE DISPENSER	1"	-	1/4" *	
B16	-	NOT USED				

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.



NOTE: THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILING, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILING, ETC., PRIOR TO START OF WORK. THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM WHICH INCLUDES BUT IS NOT LIMITED TO, SETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING, VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

KEY NOTES FOR SHEET P200

- 1 CONNECT TO EXISTING 4" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
- 2 PROVIDE CAST IRON MODEL FS-2/3 AND CAST IRON OR ABS PIPING FOR MINIMUM 10'-0" IF WAREWASHER DISCHARGE TEMPERATURE IS TO BE ABOVE 140 DEG. (F). VERIFY WITH OWNER/EQUIPMENT.

NOTE: DWV PIPING SHALL NOT BE UNNECESSARILY EXPOSED. EXPOSED LINES SHALL BE INSTALLED SO THEY DO NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILING. EXPOSED HORIZONTAL LINES MAY NOT BE INSTALLED ON THE FLOOR. PROVIDE ANY STAND-OFFS AS REQUIRED PER HEALTH DEPARTMENT. RUN LINES TIGHT AND CONCEALED UNDER BAR/EQUIPMENT, OR IN HALF WALL AS REQUIRED. COORDINATE EXPOSED DWV LINES W/TENANT. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS. PROVIDE AIR INTAKE VENT/WALL GRILLE FOR AAVS WHERE REQUIRED.

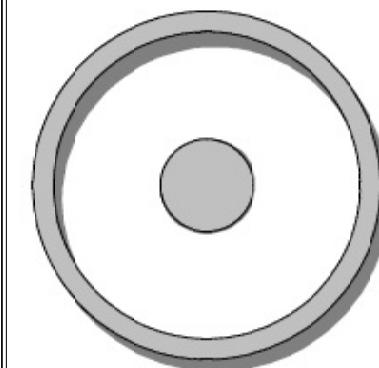
NOTE: COORDINATE EXACT LOCATIONS OF FLOOR SINKS WITH TENANT/EQUIPMENT SERVED PRIOR TO ROUGH-IN. MINIMUM CLEARANCES FOR ALL EXPOSED INDIRECT DRAIN LINES ARE 4" A.F.F., 1" FROM WALL, 1" FROM OTHERS. ALL INDIRECT WASTE PIPING FROM EQUIPMENT EXCEEDING 30" IN DEVELOPED LENGTH HORIZONTALLY, OR 54" IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. PROVIDE DRAIN PIPING FOR SO THAT EACH WELL OF A MULTI-COMPARTMENT SINK DISCHARGES INDEPENDENTLY TO A WASTE RECEPTOR PER NCSBC-PLUMBING SECT. 802.1.1.

INDIRECT CONNECTION SCHEDULE *

FLOOR SINK # (FS-#)	SIZE
(B1) SPILL RAIL	1/2"
(B5) HAND SINK	1-1/2"
(B6) 3 COMP. SINK **	1-1/2"
(B7) ICE BIN	1"
FLOOR SINK #2 (FS-2)	
(B2) GLASS RACK (QTY. OF 2)	1/2"
(B9) WAREWASHER	3/4"
FLOOR SINK #3 (FS-3)	
(B2) GLASS RACK (QTY. OF 2)	1/2"
(B9) WAREWASHER	3/4"
FLOOR SINK #4 (FS-4)	
(B1) SPILL RAIL	1/2"
(B3) 2 COMP. SINK **	1-1/2"
(B5) HAND SINK	1-1/2"
FLOOR SINK #5 (FS-5)	
(B14) ICE MACHINE	1"
(B15) BEVERAGE DISPENSER	1"
FLOOR SINK #6 (FS-6)	
(B12) DRIP TRAY	1/4"
(MS) MOP SINK	SIZE
GW	1"
RPZ	1"

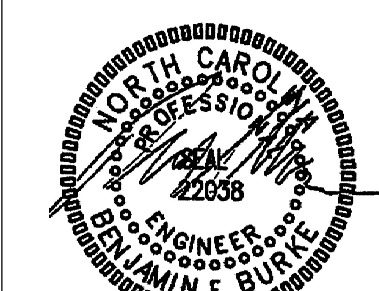
* VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.

** PROVIDE SEPARATE DRAIN FROM EACH WELL BASIN OF MULTI-COMP SINK.



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7/22/24

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issue date:

ISSUE	NAME	DATE
1ST	PERMIT SET	6/27/24

revisions:

Revision	Date	Description
1	7/22/24	AHJ COMMENTS

drawn by:
MRH
checked by:
BEB
project no:
23-117

DWV
PLAN

P2

1 DWV PLAN
SCALE: 3/16" = 1'-0"

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(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

EQUIPMENT SCHEDULE

ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
			WASTE	HW	CW	GAS (BTUH)
B1	2	SPILL RAIL	1/2"	-	-	-
B2	4	GLASS RACK	1/2"	-	-	-
B3	1	TWO COMPARTMENT SINK	1-1/2"	1/2"	1/2"	-
B4	2	TRASH CAN	-	-	-	-
B5	2	HAND SINK	1-1/2"	1/2"	1/2"	-
B6	1	3 COMPARTMENT SINK	1-1/2"	1/2"	1/2"	-
B7	1	ICE BIN	1"	-	-	-
B8	2	GLASS FROSTER	-	-	-	-
B9	2	WAREWASHER (HI-TEMP)	3/4"	-	1/2"	*
B10	1	BOTTLE REFRIGERATOR	-	-	-	-
B11	2	BACK BAR REFRIGERATOR	-	-	-	-
B12	LOT	DRIP TRAY	1/4"	-	1/2"	*
B13	1	BEER TAPS	-	-	-	-
B14	1	ICE MACHINE W/BIN	1"	-	3/4"	*
B15	1	BEVERAGE DISPENSER	1"	-	1/4"	*
B16	-	NOT USED	-	-	-	-

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

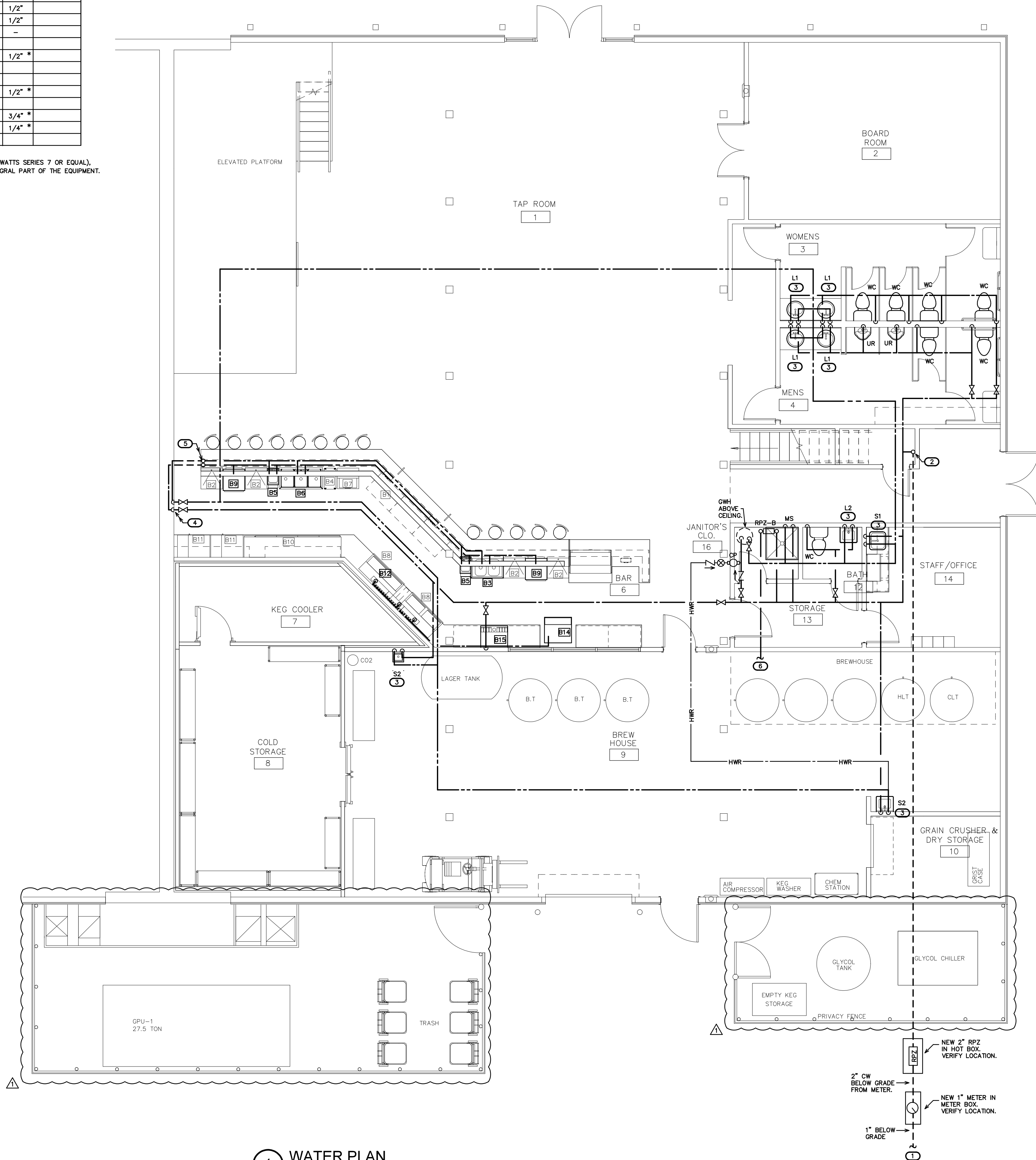
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REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.
IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK. THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

KEY NOTES FOR SHEET P300

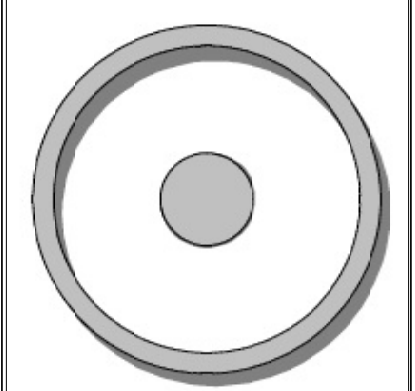
- 1 PROVIDE NEW TENANT INCOMING 1" CW SERVICE LINE, BELOW GRADE, TO TAP SUPPLY MAIN. VERIFY LOCATION/COORDINATE W/SITE AND AHJ SPECIFICATIONS.
- 2 RISE CW FROM BELOW GRADE TO MAIN SHUT-OFF VALVE A.F.F., RISE TO RUN CW MAIN ABOVE CEILING. VERIFY LOCATION. RISE IN WALL W/ACCESS DOOR IF REQUIRED.
- 3 PROVIDE TMV AT SINK/LAV FOR CW AND/OR 110 DEG. F (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
- 4 DROP WATER LINES TO RUN BELOW FLOOR TO BAR FIXTURES. VERIFY LOCATION.
- 5 RISE TO RUN CW/HW LINES CONCEALED IN BAR TO BAR FIXTURES. VERIFY LOCATION. PROVIDE TMV PER KEY NOTE #3 TO (B5) BAR HAND SINKS AS REQUIRED.
- 6 EXTEND CW TO BREWERY EQUIPMENT/SYSTEMS AS REQUIRED. COORDINATE WITH SUPPLIER/EQUIPMENT. VERIFY ALL OPERATING PARAMETERS. PROVIDE ALL COMPONENTS AS REQUIRED PER SYSTEM SPECIFICATIONS.

NOTE:
ALL WATER LINES, RISE/DROP LOCATIONS SHOWN FOR CLARITY. VERIFY ROUTING OF ALL LINES-AVOID WINDOWS, ETC. COORDINATE WITH ARCHITECT, OWNER, G.C., EXISTING STRUCTURE, ETC. (TYP FOR NEW LINES)

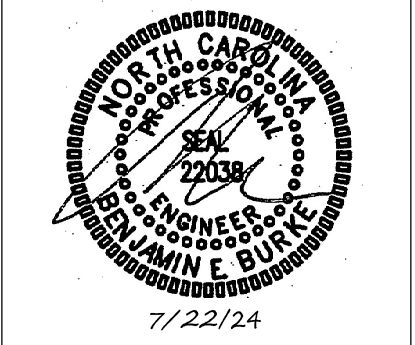
NOTE:
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1 WATER PLAN
SCALE: 3/16" = 1'-0"



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WATER PLAN

P3

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(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

EQUIPMENT SCHEDULE				UTILITY CONNECTIONS			
ITEM	QUAN	DESCRIPTION	WASTE	HW	CW	GAS (BTUH)	
B1	2	SPILL RAIL	1/2"	-	-	-	
B2	4	GLASS RACK	1/2"	-	-	-	
B3	1	TWO COMPARTMENT SINK	1-1/2"	1/2"	1/2"	-	
B4	2	TRASH CAN	-	-	-	-	
B5	2	HAND SINK	1-1/2"	1/2"	1/2"	-	
B6	1	3 COMPARTMENT SINK	1-1/2"	1/2"	1/2"	-	
B7	1	ICE BIN	1"	-	-	-	
B8	2	GLASS FROSTER	-	-	-	-	
B9	2	WAREWASHER (HI-TEMP)	3/4"	-	1/2"	*	
B10	1	BOTTLE REFRIGERATOR	-	-	-	-	
B11	2	BACK BAR REFRIGERATOR	-	-	-	-	
B12	LOT	DRIP TRAY	1/4"	-	1/2"	*	
B13	1	BEER TAPS	-	-	-	-	
B14	1	ICE MACHINE W/BIN	1"	-	3/4"	*	
B15	1	BEVERAGE DISPENSER	1"	-	1/4"	*	
B16	-	NOT USED	-	-	-	-	

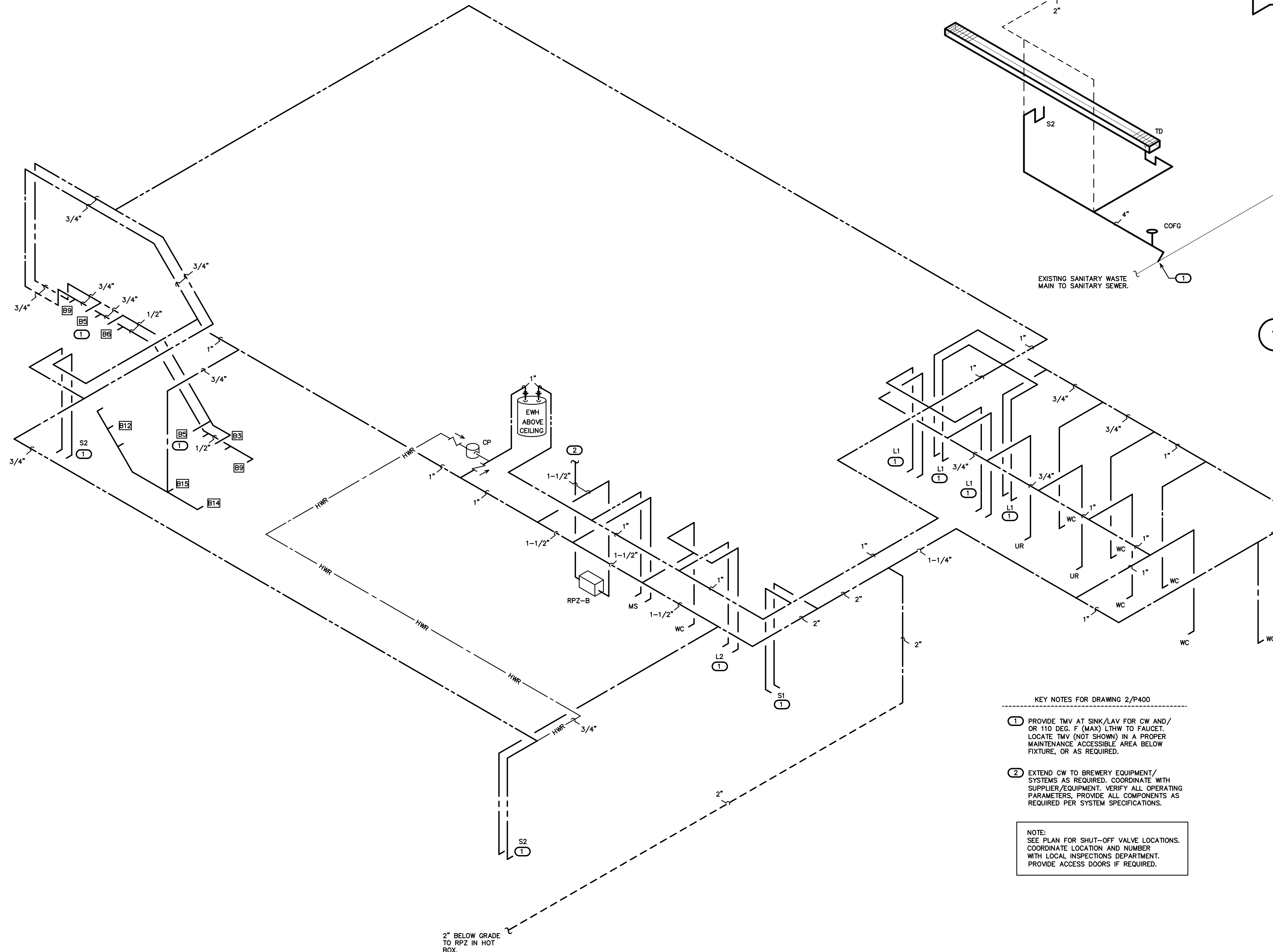
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DWV/WATER RISER NOTES:

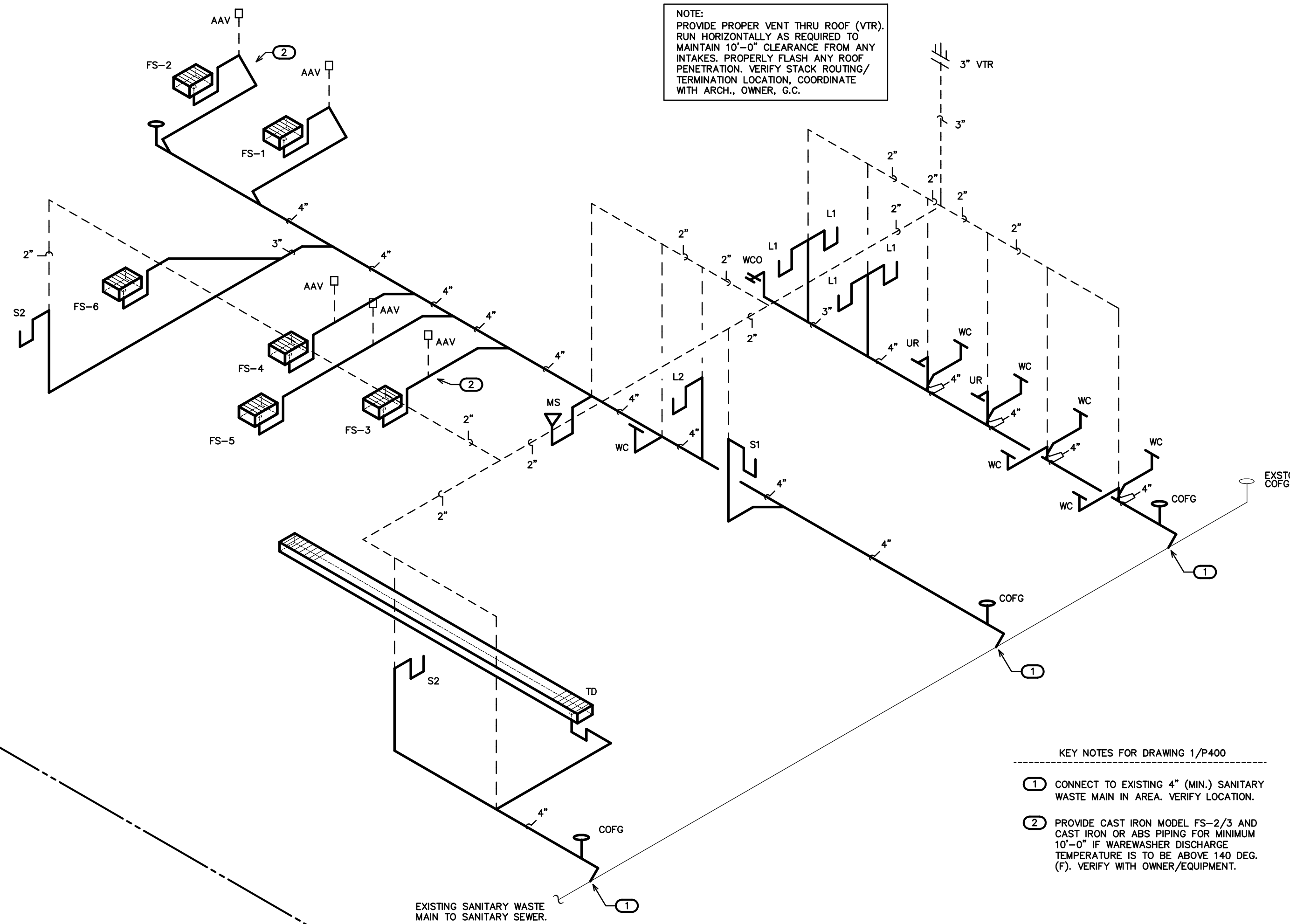
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE. SEE EQUIPMENT OR PIPE SIZING SCHEDULE. MINIMUM 2" DRAIN LINE SIZE UNDER SLAB. MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED. PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE				
FIXTURE TYPE	DRAIN	VENT	CW	HW
(FS-1 THRU 3) FLOOR SINK #1-3	3"	1-1/2"	-	-
(FS-4 THRU 6) FLOOR SINK #4-6	2"	1-1/4"	-	-
(L1) LAVATORY (COUNTER TOP)	1-1/2"	1-1/4"	1/2"	1/2"
(L2) LAVATORY (WALL MOUNT)	1-1/2"	1-1/4"	1/2"	1/2"
(MS) MOP SINK	3"	1-1/2"	1/2"	1/2"
(S1) BREAK ROOM SINK	1-1/2"	1-1/4"	1/2"	1/2"
(S2) HAND SINK	1-1/2"	1-1/4"	1/2"	1/2"
(TD) TRENCH DRAIN	4"	3"	-	-
(UR) URINAL	2"	1-1/4"	3/4"	-
(WC) FLUSH TANK WATER CLOSET	3"	1-1/2"	1/2"	-



2 WATER RISER
SCALE: NOT TO SCALE



NOTE:
PROVIDE PROPER VENT THRU ROOF (VTR). RUN HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" CLEARANCE FROM ANY INTAKES. PROPERLY FLASH ANY ROOF PENETRATION. VERIFY STACK ROUTING/TERMINATION LOCATION, COORDINATE WITH ARCH., OWNER, G.C.

KEY NOTES FOR DRAWING 1/P400

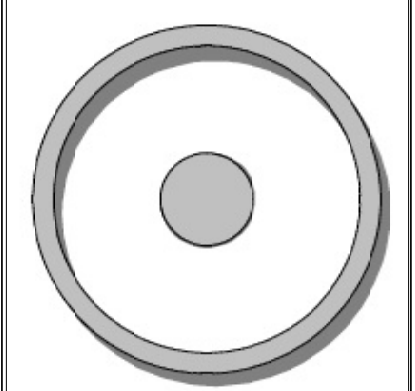
- CONNECT TO EXISTING 4" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
- PROVIDE CAST IRON MODEL FS-2/3 AND CAST IRON OR ABS PIPING FOR MINIMUM 10'-0" IF WAREWASHER DISCHARGE TEMPERATURE IS TO BE ABOVE 140 DEG. (F). VERIFY WITH OWNER/EQUIPMENT.

1 DWV RISER
SCALE: NOT TO SCALE

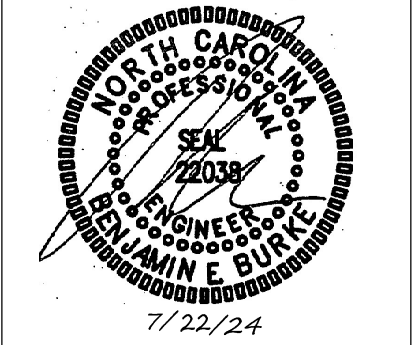
KEY NOTES FOR DRAWING 2/P400

- PROVIDE TMV AT SINK/LAV FOR CW AND/OR 110 DEG. F (MAX) LTRW TO FAUCET. LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
- EXTEND CW TO BREWERY EQUIPMENT/SYSTEMS AS REQUIRED. COORDINATE WITH SUPPLIER/EQUIPMENT. VERIFY ALL OPERATING PARAMETERS. PROVIDE ALL COMPONENTS AS REQUIRED PER SYSTEM SPECIFICATIONS.

NOTE:
SEE PLAN FOR SHUT-OFF VALVE LOCATIONS. COORDINATE LOCATION AND NUMBER WITH LOCAL INSPECTIONS DEPARTMENT. PROVIDE ACCESS DOORS IF REQUIRED.



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GRAIN DEALERS BREWERY
 100 N 13TH ST, BAY K
 ERWIN, NC

issue date:

ISSUE	NAME	DATE
1ST	PERMIT SET	6/27/24

revisions:

Revision	Date	Description

drawn by:
MRH
checked by:
BEB
project no:
23-117

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DWV/WATER
RISERS
P4

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

EQUIPMENT SCHEDULE

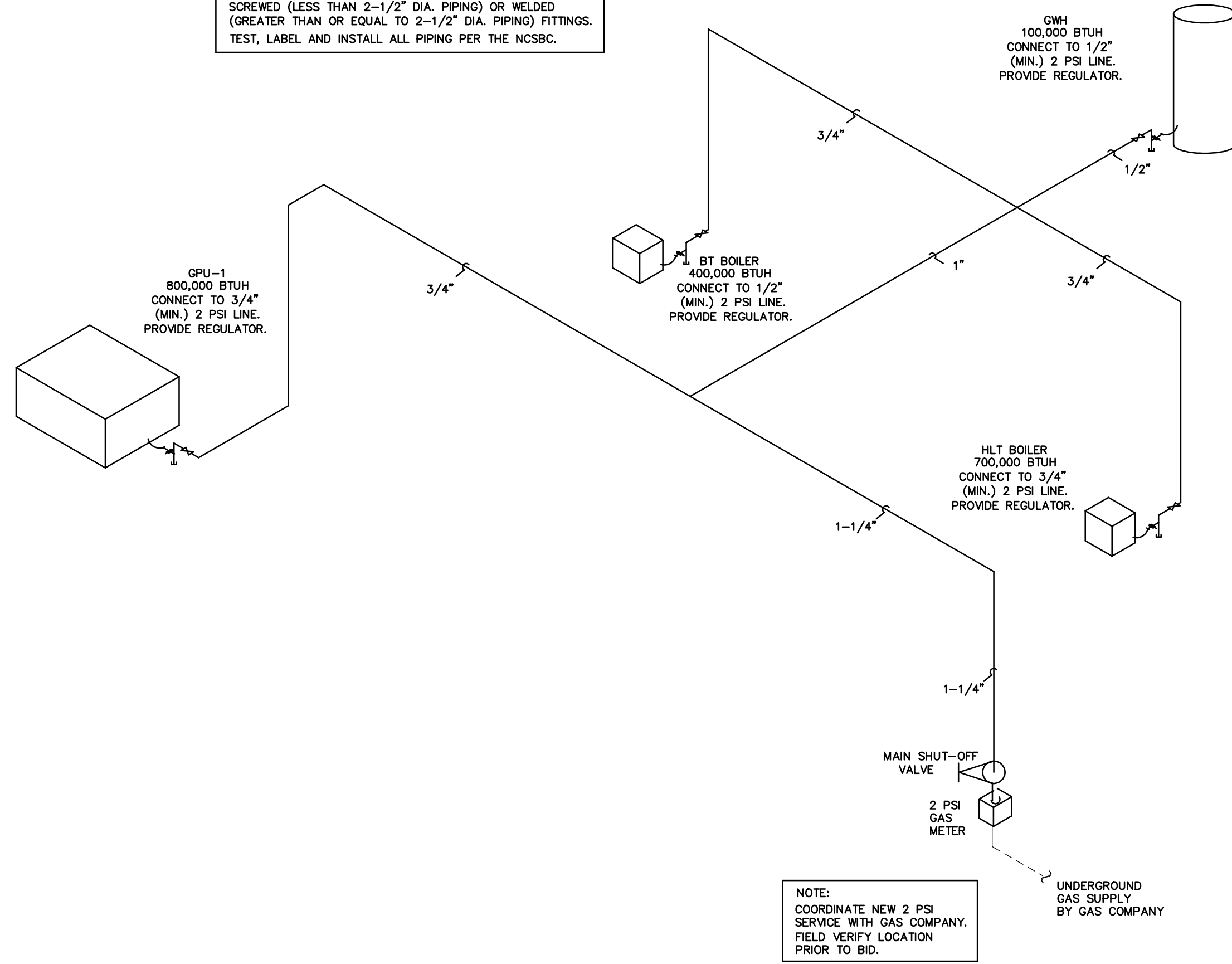
ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
			WASTE	HW	CW	GAS (BTUH)
B1	2	SPILL RAIL	1/2"	-	-	
B2	4	GLASS RACK	1/2"	-	-	
B3	1	TWO COMPARTMENT SINK	1-1/2"	1/2"	1/2"	
B4	2	TRASH CAN				
B5	2	HAND SINK	1-1/2"	1/2"	1/2"	
B6	3	COMPARTMENT SINK	1-1/2"	1/2"	1/2"	
B7	1	ICE BIN	1"	-	-	
B8	2	GLASS FROSTER				
B9	2	WAREWASHER (HI-TEMP)	3/4"	-	1/2"	*
B10	1	BOTTLE REFRIGERATOR				
B11	2	BACK BAR REFRIGERATOR				
B12	1	LOT DRIP TRAY	1/4"	-	1/2"	*
B13	1	BEER TAPS				
B14	1	ICE MACHINE W/BIN	1"	-	3/4"	*
B15	1	BEVERAGE DISPENSER	1"	-	1/4"	*
B16	-	NOT USED				

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

2018 NCSBC, FUEL GAS CODE- TABLE 402.4(5)

NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 2 PSI AND A PRESSURE DROP OF 1 PSI AT 125 FEET IN DEVELOPED LENGTH. PIPE SIZES SHOWN ARE NOMINAL INSIDE DIAMETER. TOTAL CONNECTED LOAD (OVERALL) = 2,000,000 BTUH

NOTE:
GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40 WITH SCREWED (LESS THAN 2-1/2" DIA. PIPING) OR WELDED (GREATER THAN OR EQUAL TO 2-1/2" DIA. PIPING) FITTINGS. TEST, LABEL AND INSTALL ALL PIPING PER THE NCSBC.



2 NAT. GAS RISER
SCALE: NOT TO SCALE

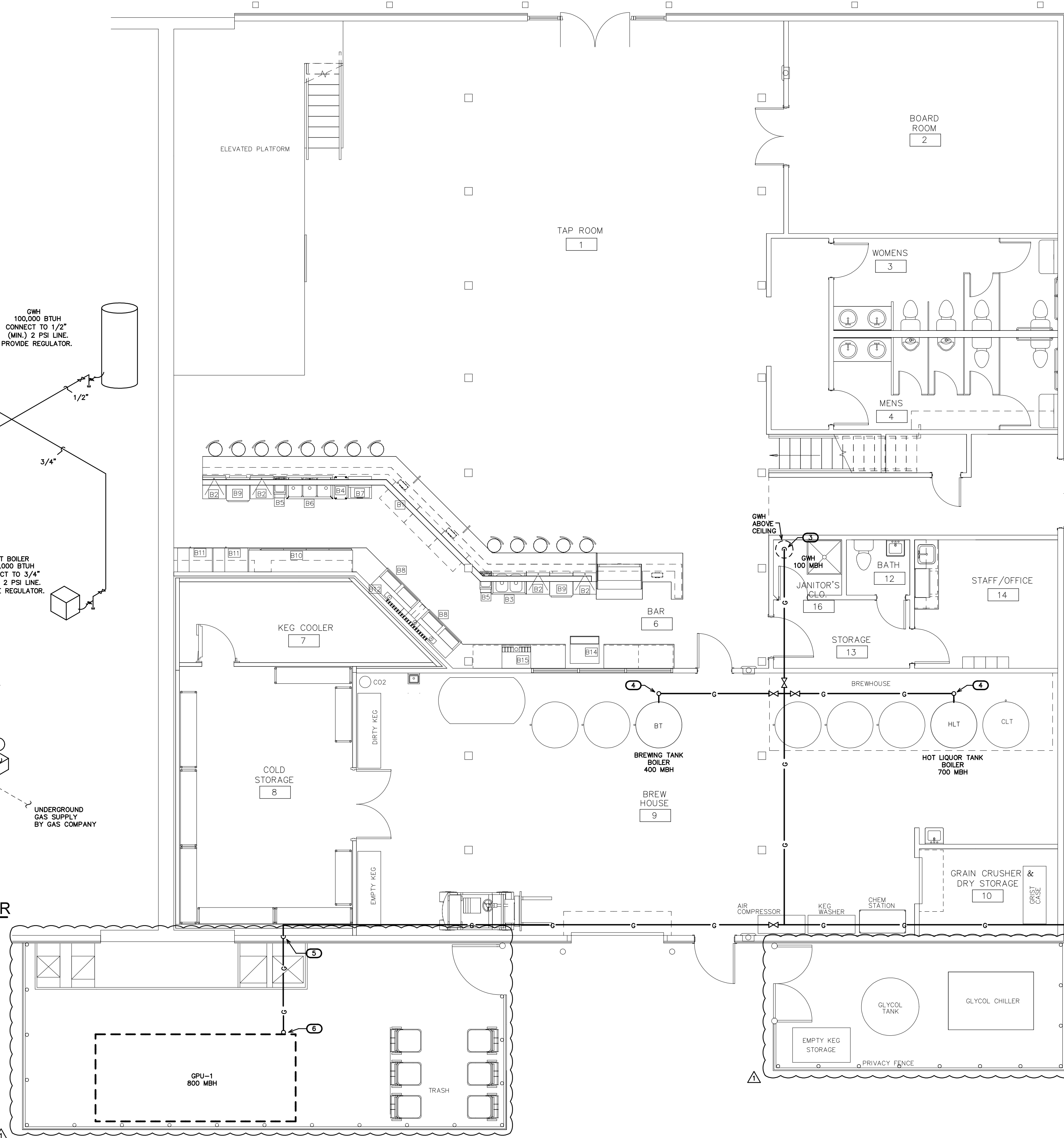
NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.
REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILING, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.
IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILING, ETC. PRIOR TO START OF WORK. THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

- KEY NOTES FOR SHEET P500
- 1 PROVIDE MEDIUM PRESSURE (2 PSI) NATURAL GAS METER/SERVICE FOR TENANT. VERIFY LOCATION, COORDINATE WITH GAS COMPANY.
 - 2 RISE TO RUN ABOVE CEILING/BELOW ROOF STRUCTURE. VERIFY LOCATION/ROUTING.
 - 3 CONNECT TO GWH. VERIFY LOCATION, COORDINATE W/EQUIPMENT. PROVIDE PROPER REGULATOR, VENT TO EXTERIOR IF REQUIRED.
 - 4 DROP TO CONNECT TO (BT) BREW TANK (HLT) HOT LIQUOR TANK BOILER. VERIFY LOCATION, COORDINATE W/EQUIPMENT. PROVIDE PROPER REGULATOR, VENT TO EXTERIOR IF REQUIRED.
 - 5 DROP TO RUN TO GAS PACKAGE UNIT (GPU) AT GRADE. VERIFY LOCATION/ROUTING.
 - 6 CONNECT TO NEW HVAC GAS PACKAGE UNIT (GPU). COORDINATE LOCATION WITH EQUIPMENT, MECH. PLANS. PROVIDE REGULATOR.

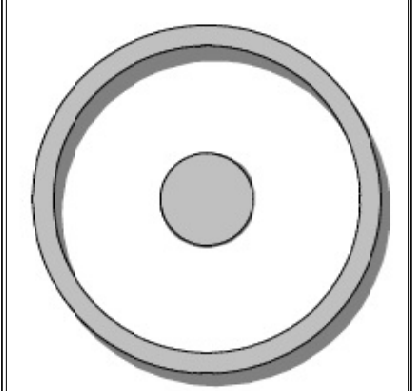
NOTE:
NATURAL GAS LINES MAY NOT BE UNNECESSARILY EXPOSED. EXPOSED LINES SHALL BE INSTALLED SO THEY DO NOT OBSTRUCT OR PREVENT REQUIRED CLEANING OF THE FLOORS, WALLS, OR CEILING. EXPOSED HORIZONTAL GAS LINES MAY NOT BE INSTALLED ON THE FLOOR. PROVIDE ANY PIPING STAND-OFFS AS REQUIRED PER CODE, MFR, AHJ. RUN LINES TIGHT AND CONCEALED UNDER ALL EQUIPMENT, OR TIGHT TO/WALLS AS REQUIRED. ALL LINE SHUT-OFF VALVES, REGULATORS, ETC. MUST BE ACCESSIBLE FOR PROPER MAINTENANCE. VENT REGULATORS TO EXTERIOR IF/AS REQUIRED. PAINT ANY INTERIOR OR EXTERIOR EXPOSED GAS LINES PER CODE AND BUILDING STANDARD. PROVIDE PROPER LABELING FOR ALL 2 PSI PIPING. PROVIDE PROPER STAND-OFFS/SUPPORTS FOR GAS LINES ON ROOF/EXTERIOR WALLS, BELOW ROOF, ETC. PROPERLY SEAL ROOF/EXT. WALL PENETRATIONS SO AS NOT TO VOID ANY EXISTING WARRANTIES. PROVIDE PROPER BRANCH LINE SHUT-OFF VALVES. ALL VALVES/REGULATORS MAY NOT BE SHOWN. PROVIDE PROPER CARBON MONOXIDE DETECTOR(S) IF/AS REQUIRED.

NOTE:
NATURAL GAS PRESSURE TO BE AT 2 PSI. PROVIDE PROPER LABELING ON ALL GAS PIPING.

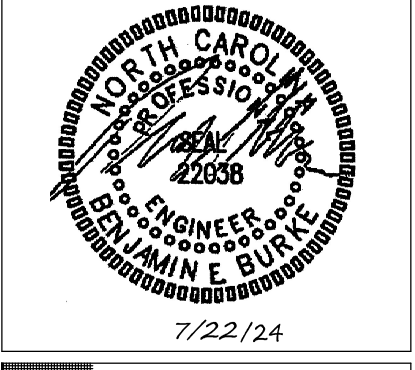
NOTE:
ALL GAS EQUIPMENT LOAD TOTALS. VERIFY GAS METER LOCATION PRIOR TO BID. VERIFY LINE SIZES, TOTAL DEVELOPED LINE LENGTHS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOR REQUIRED REVIEW AND/OR RE-SIZING OF GAS LINES.



1 NAT. GAS PLAN
SCALE: 3/16" = 1'-0"



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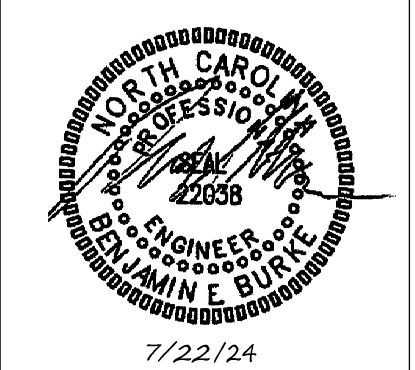
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NATURAL GAS PLAN
P5



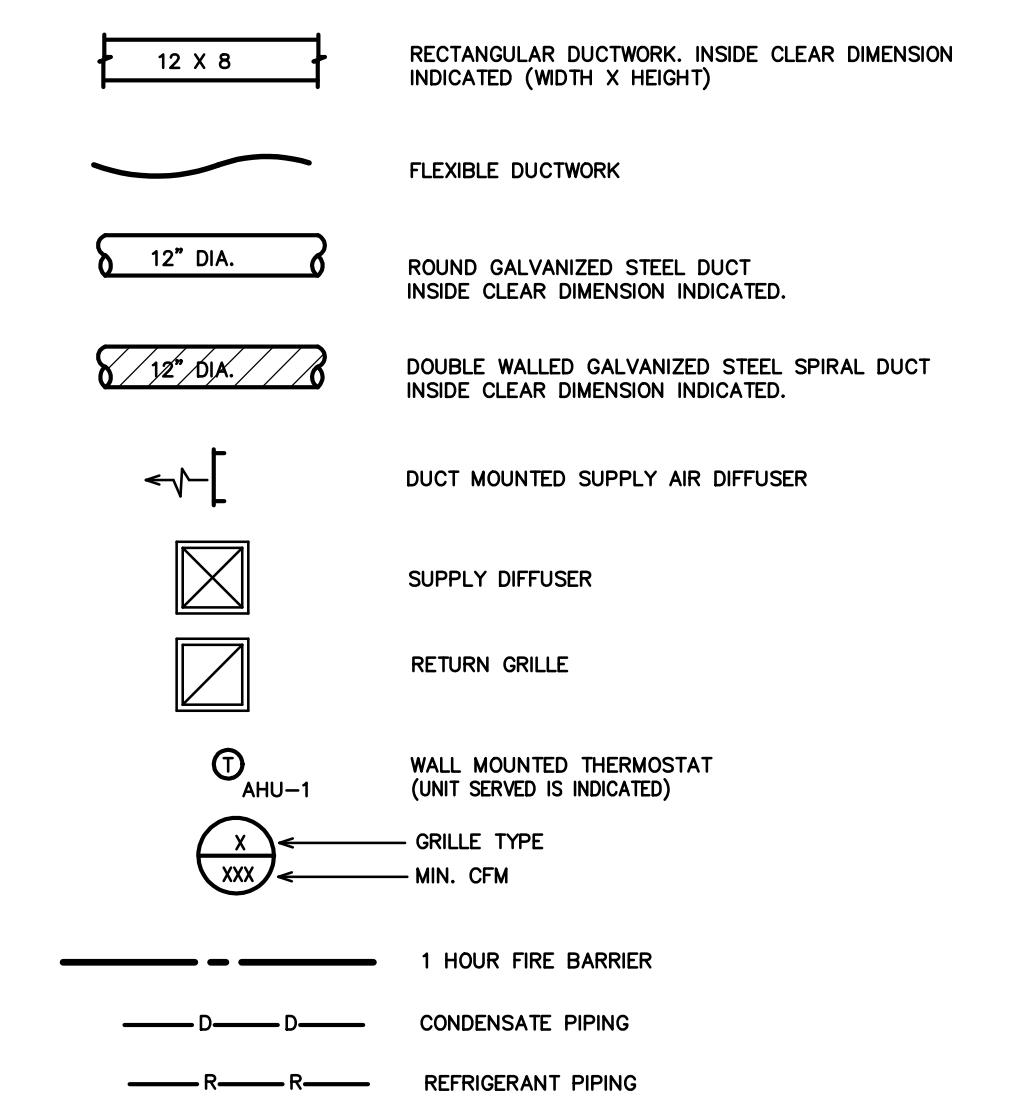
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GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

LEGEND - MECHANICAL



GAS PACK SCHEDULE	
GAS PACK UNIT #1	
GPU #1 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT	* TRANE MODEL #YCH330R4HV1B1BC, GAS HEAT ELECTRIC COOLING SINGLE PACKAGE --- OWNER PROVIDED ---

AIR DISTRIBUTION SCHEDULE							
MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	RTDBH	6" X 12"	8" X 14"	STEEL	SUPPLY	DUCT, SIDE WALL, OR CEILING MOUNTED
RB	CARNES	RSABH	48" X 36"	50" X 38"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED

* OR APPROVED EQUAL

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS
PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

EXHAUST FAN SCHEDULE	
EXHAUST FAN #1 & 2 (EF-1 & 2)	* CARNES MODEL# VCDD030C EXHAUST FAN, 303 CFM @ 1/4" SP, 905 RPM, 2.7 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 10" RIGID DUCT TO EXTERIOR, FLASHING AND ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #3 (EF-3)	* CARNES MODEL# VCDD010C EXHAUST FAN, 93 CFM @ 1/4" SP, 640 RPM, 1.1 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #4 (EF-4)	* CARNES MODEL# VCDD020C EXHAUST FAN, 196 CFM @ 1/4" SP, 740 RPM, 1.8 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 8" RIGID DUCT TO WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.

* OR APPROVED EQUAL

NOTE: RUN EXHAUST DUCTS HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" MINIMUM SEPARATION FROM ANY INTAKES.

OA SCHEDULE OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3 NCSCB MECHANICAL CODE.									
APPLICATION	SQUARE FOOTAGE (SF)	AREA OUTDOOR AIR FLOW RATE (CFM/SF)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	OCCUPANCY DENSITY RATE (# PEOPLE/1000SF)	OCCUPANCY (# PEOPLE)	AREA OUTDOOR AIR FLOW (CFM)	PEOPLE OUTDOOR AIR FLOW (CFM)	TOTAL AIR FLOW (CFM)	TOTAL (CFM)
OFFICE	243	0.06	5	5	2	15	10	25	25
CONFERENCE	383	0.06	5	50	14	23	70	93	93
BAR / COCKTAIL LOUNGE	1989	0.18	7.5	100	110	358	825	1183	1183
CORRIDOR	705	0.06	-	-	-	42	-	42	42
WAREHOUSE	1284	0.06	-	-	-	77	-	77	77
STORAGE	90	0.12	-	-	-	11	-	11	11
TOTAL REQUIRED									1431

OUTDOOR AIR PROVIDED FROM EACH HVAC UNIT **	
HVAC UNIT	OUTDOOR AIR (CFM)
RTU-1	2750
TOTAL PROVIDED	2750

APPLICATION CFM	
TOILETS	70 CFM/FLUSHING FIXTURE
9 FLUSHING FIXTURE X 70 CFM = 630 CFM	
EXHAUST PROVIDED BY THREE EXHAUST FANS, MAKE UP AIR BY TRANSFER AIR	

*ACTUAL OCCUPANCY PER BUILDING TENANT AS ALLOWED BY 2018 NCSCB: MECHANICAL CODE, SECTION 403.3.1.1, EXCEPTION.

** SET OUTDOOR AIR DAMPER CONTROLS TO PROVIDE OUTDOOR AIR AS INDICATED IN THIS SCHEDULE.

FLEXIBLE DUCTWORK SIZES MAXIMUM CFM'S		
SIZES	SUPPLY	RETURN
6"	100	100
8"	175	175
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

FLEXIBLE DUCTWORK NOTES	
1)	INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
2)	DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
3)	DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
4)	DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 75% OF ORIGINAL VOLUME.
5)	USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
6)	EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
7)	SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone	
winter dry bulb	16F
summer dry bulb	93F
Interior Design Conditions	
winter dry bulb	72F
summer dry bulb	75F
relative humidity	50%
Building Heating Load (Tenant space only)	122,500 BTU/hr
Building Cooling Load (Tenant space only)	157,600 BTU/hr
Mechanical Spacing Conditioning System	
Unitary - The tenant space is served the following systems: (1) Owner provided 27.5 Ton roof top package unit	
Boiler - Not applicable to this project.	
Chiller - Not applicable to this project.	
Equipment efficiencies	
Efficiencies and outputs are listed on equipment schedules - See drawings.	

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CLS

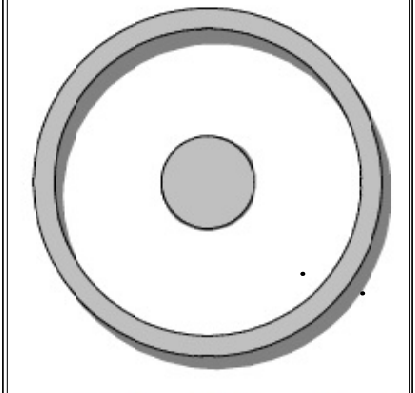
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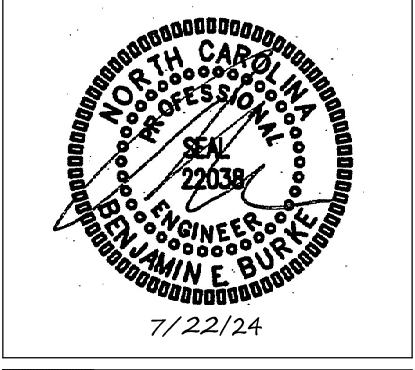
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HVAC
SPECS
M1

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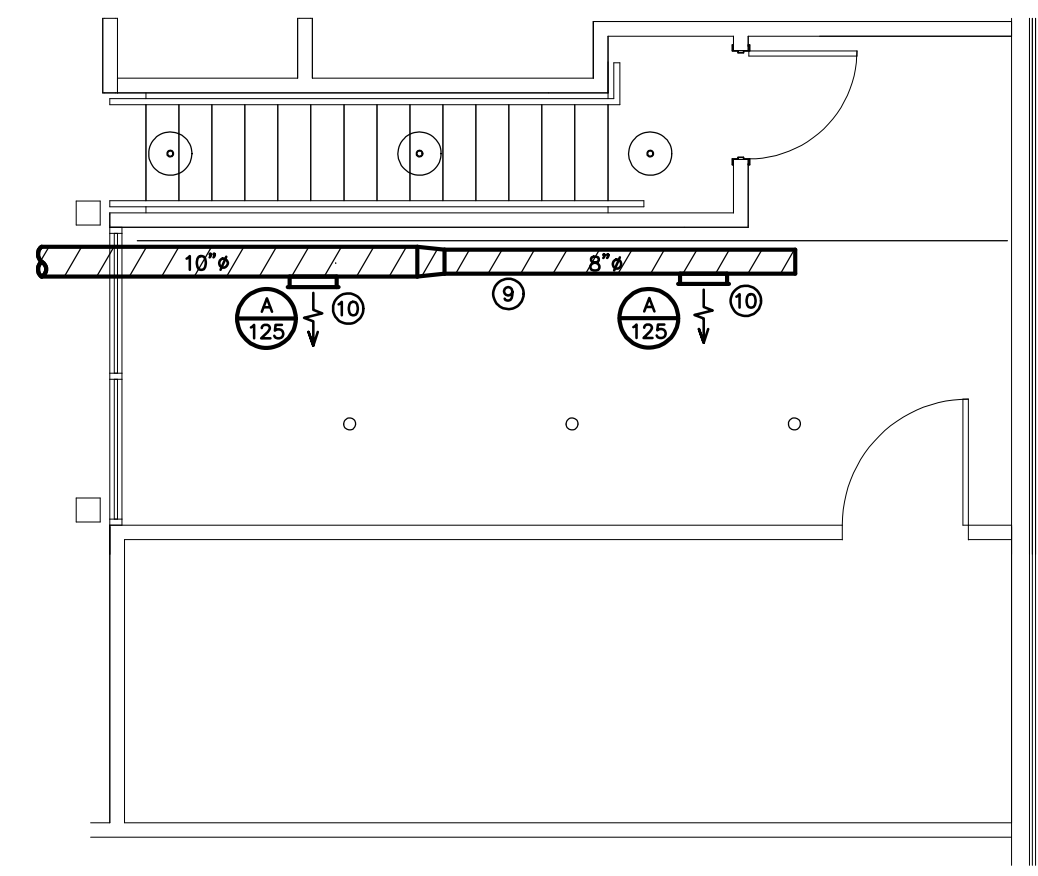
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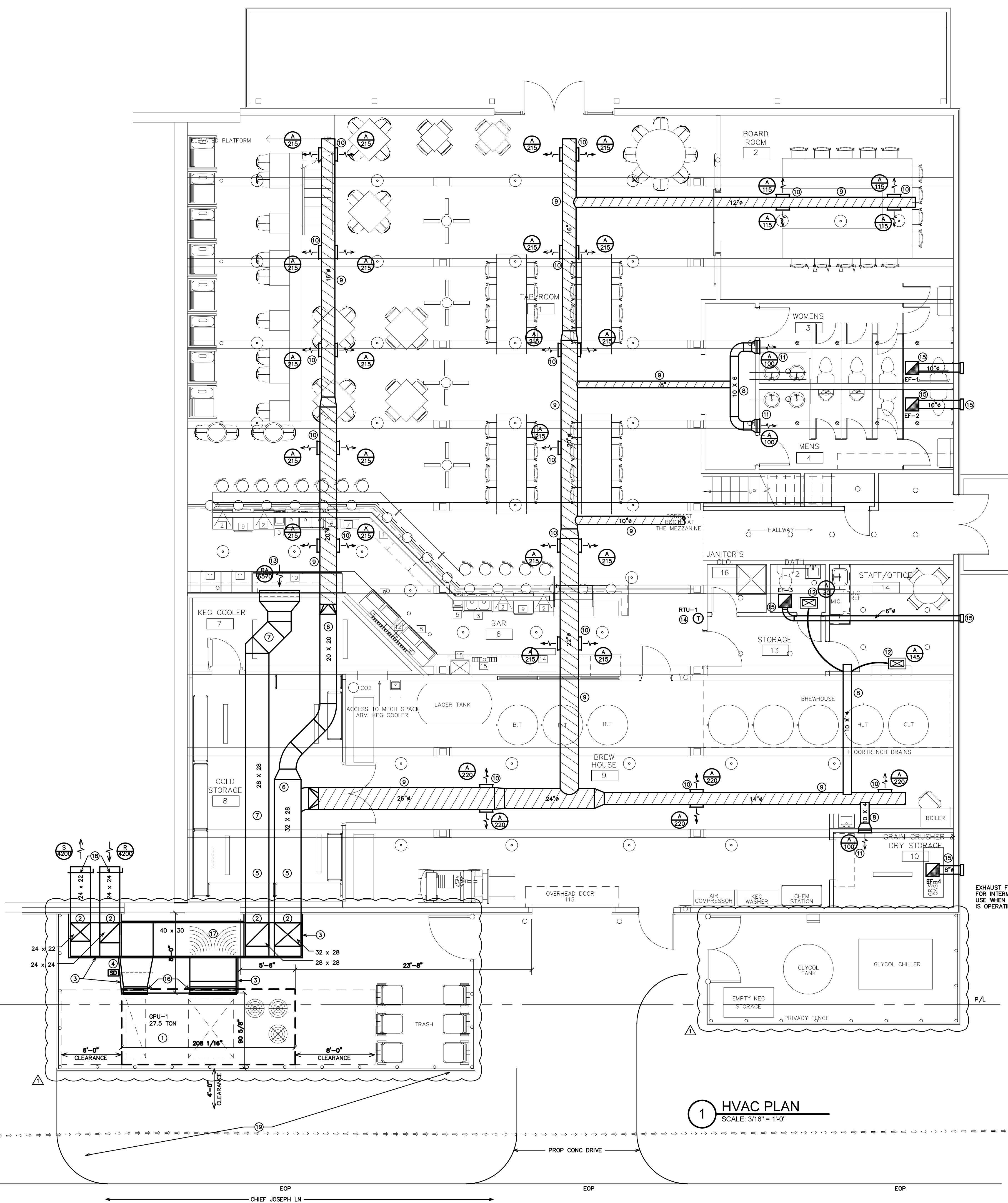
HVAC PLAN
M2

- KEY NOTES FOR M2:
- GAS PACKAGED UNIT PROVIDED BY THE OWNER INSTALLED BY MECHANICAL CONTRACTOR ON EXISTING CONCRETE EQUIPMENT SLAB. INSTALLER MUST MAINTAIN ALL MANUFACTURERS CLEARANCES AROUND THE UNIT (SHOWN).
 - DUCTWORK TO BRANCH DUCT IN SPACE.
 - GALVANIZED SHEET METAL ENCLOSURE BETWEEN UNIT AND BUILDING WALL. SEAL WATERTIGHT.
 - PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. PROVIDE ACCESS DOOR, IN DUCT & WEATHER ENCLOSURE. DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MC.
 - MAIN BRANCH DUCT.
 - RECTANGULAR RIGID SUPPLY DUCT MOUNTED TIGHT TO STRUCTURE ABOVE COOLERS.
 - RECTANGULAR RIGID RETURN AIR DUCT MOUNTED TIGHT TO STRUCTURE ABOVE COOLERS.
 - RECTANGULAR RIGID SUPPLY DUCT MOUNTED FROM STRUCTURE.
 - DOUBLE WALL SPIRAL SUPPLY AIR DUCT MOUNTED FROM STRUCTURE.
 - DUCT MOUNTED SUPPLY AIR DIFFUSER (TYP)
 - WALL MOUNTED SUPPLY AIR DIFFUSER.
 - CEILING MOUNTED SUPPLY AIR DIFFUSER.
 - WALL MOUNTED RETURN AIR FILTER GRILLE.
 - THERMOSTAT MOUNTED AT 48" AFF.
 - EXHAUST FAN, RUN ROUND RIGID EXHAUST DUCT SIZED AS SHOWN TO A WALL MOUNTED EXHAUST CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
 - PROVIDE VIBRATION DAMPERS IN DUCTWORK LEAVING THE UNIT.
 - PROVIDE TURNING VANES IN SUPPLY AIR DUCTWORK LEAVING THE UNIT AT DIRECTION CHANGES.
 - PROVIDE MANUAL CONTROL DAMPERS IN DUCTWORK ENTERING THE ADJACENT TENANT SPACE.
 - THE CONTRACTOR, OWNER AND LOCAL AUTHORITY HAVING JURISDICTION SHOULD FIELD VERIFY THE LOCATION OF EQUIPMENT ON THIS SIDE OF THE BUILDING PRIOR TO INSTALLATION.



2 HVAC PLAN MEZZ
SCALE: 3/16" = 1'-0"

NOTE:
COMBUSTIBLE DUST IS DEFINED AS FINELY DIVIDED SOLID MATERIAL WHICH IS 420 MICRONS OR LESS IN DIAMETER AND WHICH WHEN DISPERSED IN AIR IN THE PROPER PROPORTIONS, COULD BE IGNITED BY A FLAME, SPARK OR OTHER SOURCES OF IGNITION. THE SPECIFIED GRAIN CRUSHER PRODUCES PARTICLES LARGER THAN 420 MICRONS IN DIAMETER.



1 HVAC PLAN
SCALE: 3/16" = 1'-0"

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DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
1. Heating, ventilation, and air conditioning equipment.
2. Ductwork.
3. Grilles and diffusers.
4. Controls and control wiring.
5. Condensate piping.
B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply:
1. ASHRAE Guide
2. National Electric Code.
3. 2018 NC State Building Code: Mech. Code.
4. The Electrical Specifications for this project.
5. SMACNA HVAC Duct Construction Standards.
6. All local codes and ordinances.
7. ARI rating.
8. 2018 NC State Building Code: Energy Conservation Code.

1.2 INTENT

- A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.
C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for all major items of equipment. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:
1. All equipment and accessories.
2. Grilles and diffusers.
3. Unit sizes and requirements.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

2.2 PIPING

- A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.

2.3 DUCTWORK

- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, deflectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.
B. Seal all sheet metal joints with fiber impregnated mastic.
C. Support from building structure on strap hangers not over 8 feet apart.
D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.
F. Round runouts, where used, shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning INL-25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik-set) and is not to be mounted in side take-off.

2.4 DUCT INSULATION (LOW PRESSURE)

- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke developed rating of not more than 50, exposed exterior piping.
B. All duct insulation shall comply with Section 604, of the N. C. Building Code: Mechanical Code
C. All supply and return ductwork shall be completely insulated, either internally or externally.
D. Rectangular ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.
E. As an alternative to duct liner rectangular duct may be wrapped with Class I - 2", 3/4 lb. density (R-6.5) thick reinforced foil back fiberglass insulation, Owens-Corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.
F. Exhaust air duct does not require insulation, unless otherwise noted on the plans.
G. Insulation shall be held in place with adhesive and welding pins 16" on center.
H. Duct dimensions shown on the drawings are Net Inside Dimensions

2.5 THERMOSTATS

- A. Provide programmable electronic thermostats.
B. Submit proposed thermostats for approval.

2.6 ROOF PENETRATIONS

- A. Provide pre-manufactured roof flashings compatible with equipment served.
B. Coordinate roof work with roof system used. Provide proper flashing as required.
C. Provide 1 year warranty on all roof work performed.

2.7 DUCT SMOKE DETECTORS

- A. Duct detectors are not required since units air flows are 2000 cfm or less per NCSCB: Mechanical Code, Section 608.2.

PART 3 - EXECUTION

3.1 PIPING

- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to the Engineer.
B. The HVAC Contractor shall paint all exterior refrigerant piping with UV resistant paint as recommended by the closed cell insulation manufacturer.
C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.

3.2 ELECTRICAL WORK

- A. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
B. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.
C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as-built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.
D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3.3 CLEAN UP

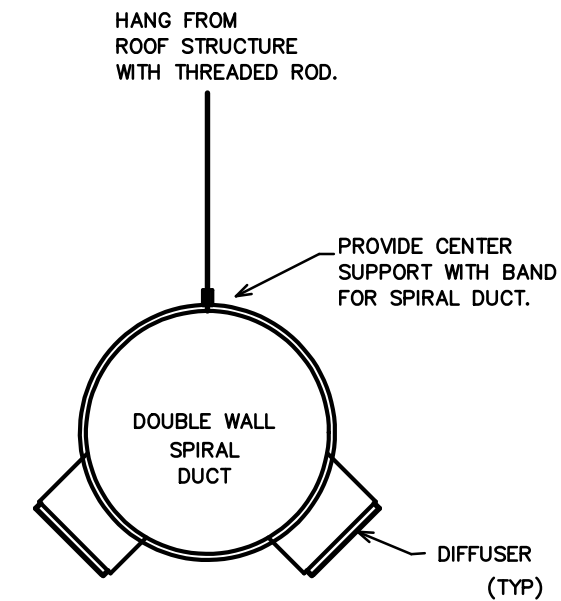
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

3.4 OPERATOR'S MANUAL AND DIAGRAM

- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.

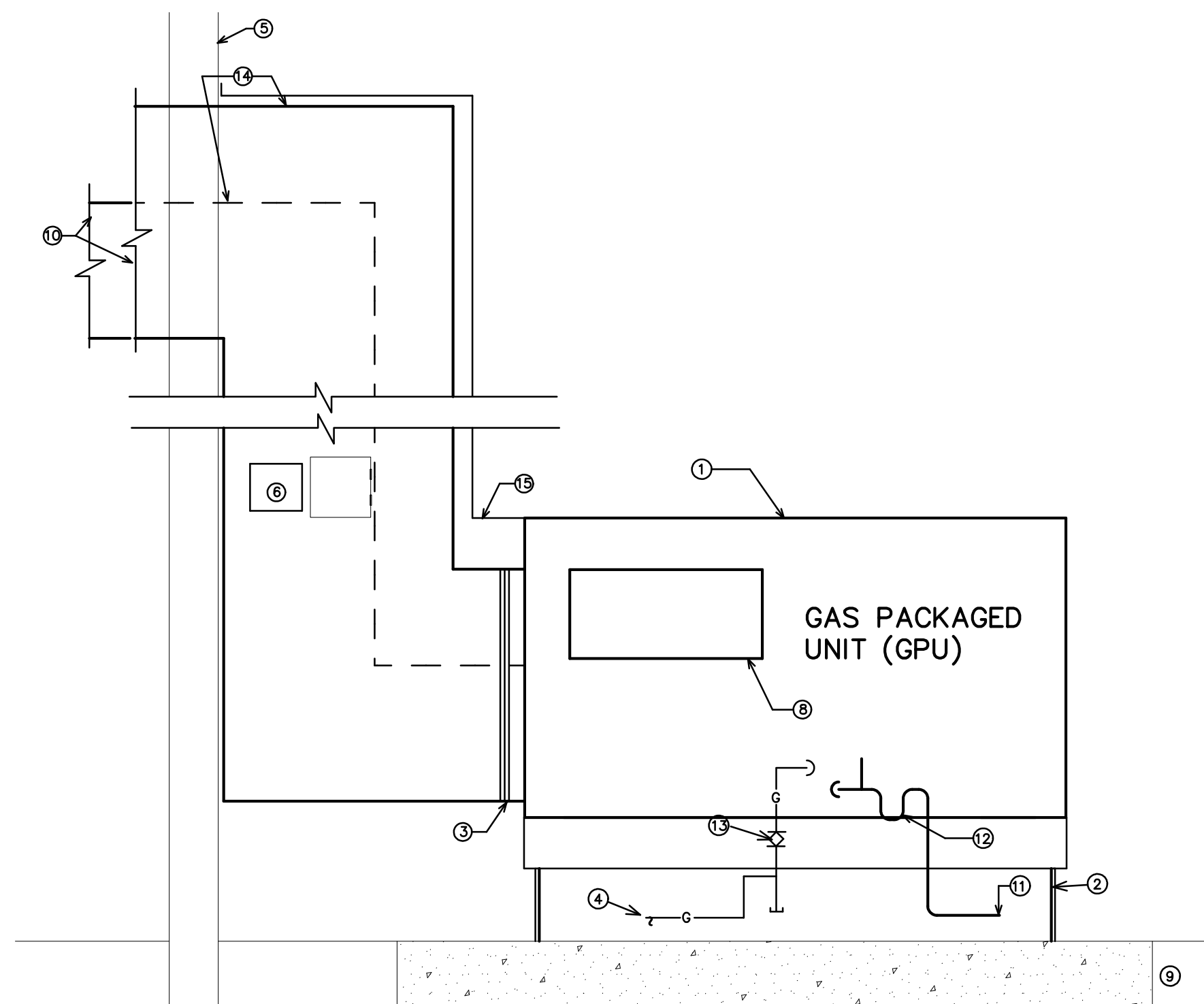
3.5 GUARANTEE

- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a non-prorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.
B. All air flows must be measured and balanced to within 10% of design airflow. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out. Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats if required for occupancy comfort.



NOTE: DUCT SHALL HAVE "PAINT-GRIP" GALVANIZED FINISH, FINAL PAINTING BY GENERAL CONTRACTOR.

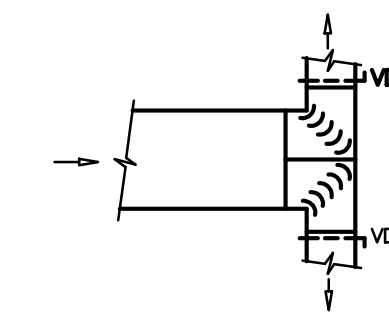
3 SPIRAL DUCT DETAIL
SCALE: NOT TO SCALE



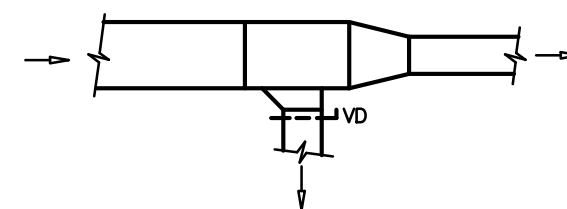
KEY NOTES FOR 1/M3

- 1 GAS PACKAGED UNIT PROVIDED BY THE OWNER INSTALLED BY MECHANICAL CONTRACTOR.
2 EQUIPMENT MOUNTING BASE.
3 FLEXIBLE CONNECTIONS
4 GAS LINE TO UNIT PROVIDED BY PLUMBING CONTRACTOR. FINAL CONNECTION AND START UP BY MECH. CONTRACTOR.
5 EXTERIOR WALL.
6 PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. PROVIDE ACCESS DOOR. IN DUCT. DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
7 6" DIRT LEG.
8 OUTSIDE AIR DAMPER AND HOOD. SET UNIT CONTROLS TO PROVIDE FOR SCHEDULED OUTDOOR AIR AS THE MINIMUM.
9 CONCRETE EQUIPMENT BASE PAD.
10 DUCTWORK TO BRANCH DUCT IN SPACE.
11 CONDENSATE DRAIN. RUN TO ROOF DRAIN.
12 PROVIDE CONDENSATE DRAIN TRAP. SIZE PER MANUFACTURERS RECOMMENDATIONS.
13 GAS SHUT-OFF VALVE, UNION AND FLEXIBLE HOSE.
14 TRANSITION FROM UNIT CONNECTION SIZED TO DUCT SIZES ON PLAN.
15 GALVANIZED SHEET METAL ENCLOSURE BETWEEN UNIT AND BUILDING WALL SEAL WATERTIGHT.

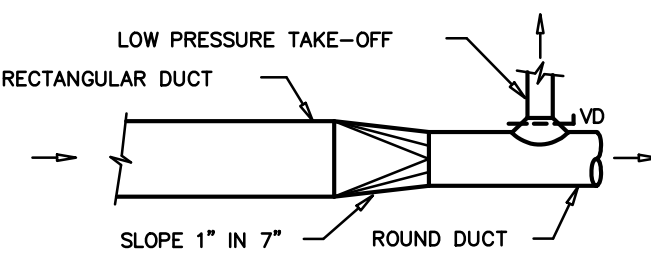
1 TYPICAL HORIZONTAL ROOF-TOP GAS PACKAGE UNIT DETAIL
NOT TO SCALE



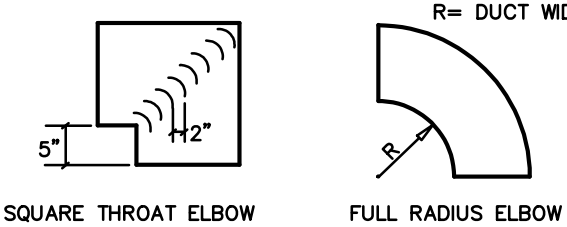
LOW PRESSURE TEE



LOW PRESSURE BRANCH TAKE-OFF

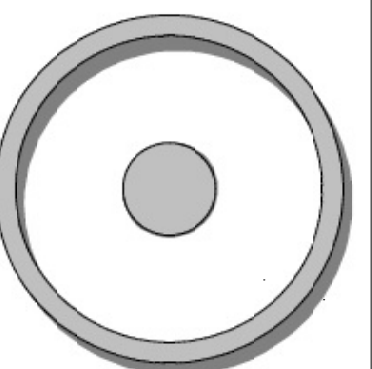


RECTANGULAR TO ROUND TRANSITION
SLOPE 1" IN 7"
R= DUCT WIDTH



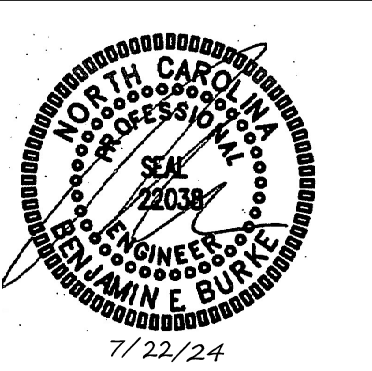
LOW PRESSURE DUCT ELBOWS

2 DUCT CONSTRUCTION DETAIL
SCALE: NOT TO SCALE



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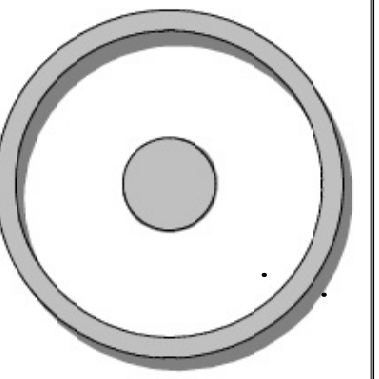
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Table with columns: Revision, Date, Description. Multiple rows for revisions.

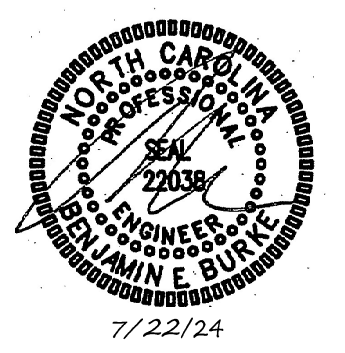
drawn by: CLS
checked by: BEB
project no: 23-117

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M3



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7/22/24

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issue date:

ISSUE	NAME	DATE
1ST	PERMIT SET	6/27/24

revisions:

Revision	Date	Description
1	7/22/24	AHJ COMMENTS

drawn by:
-
checked by:
BEB
project no:
23-117

LIGHTING PLAN

E2

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	BALLAST W	BALLAST TYPE	W/ FIXTURE	REMARKS
A	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	30	TAP ROOM BARN-STYLE PENDANT *
B	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	25	BAR PENDANT *
C	PRESCOLITE	LTR-GRD-H-ML30L-DM1	120	-	LED	-	-	30	6" LED RECESSED CAN FIXTURE *
D	COLUMBIA	LXEM4-35HL-RFA-EU	120	-	LED	-	-	47	4' ENCLOSED LED GASKETED STRIP *
F	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	100	CEILING FAN *
G	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	30	WALL WASH DOWNLIGHT *
L	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	5W/FT	LED UPLIGHT AT BEAM *
P1	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	30	BATHROOM PENDANT *
P2	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	25	VANITY PENDANT *
S	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	25	WALL SCONCE *
T	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	15W/FT	TRACK LIGHTING *
U	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	-	LED	-	-	5W/FT	UNDERBAR LED TAPE LIGHT *
W	UTOPIA	DWP2-40-G2LED-XXX-UNV	120	-	LED	-	-	45	EXTERIOR WALL PACK *
E	COMPASS	CU50	120	-	LED	-	-	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE- COLOR BY ARCH *
EF1	COMPASS	CER	120	-	LED	-	-	2	LED EXIT SIGN, COLOR BY ARCH *
EF2	COMPASS	CCR	120	-	LED	-	-	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT *
EF3	COMPASS	CU2	120	-	LED	-	-	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH *

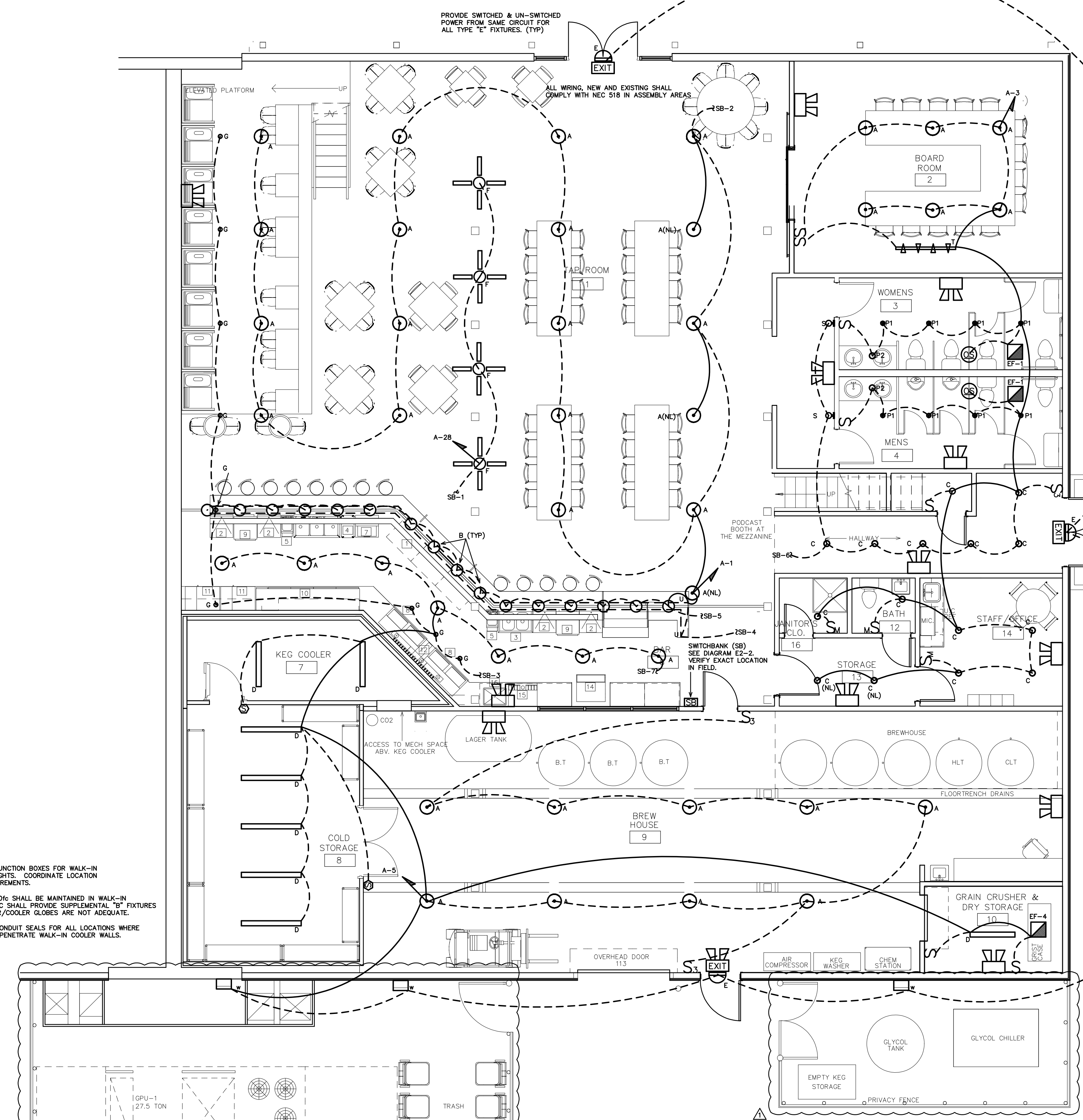
* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. MOTION SENSOCATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

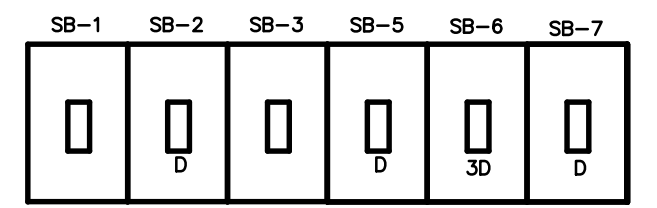
AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.



2 MEZZ. LIGHTING PLAN
SCALE: 3/16" = 1'-0"



- SB-1 TAP ROOM FANS
- SB-2 TAP ROOM CAN LIGHTS
- SB-3 MONOPOINT SPOTLIGHTS BAR
- SB-4 BAR LEDS
- SB-5 BAR PENDANTS
- SB-6 HALL/STAIRS
- SB-7 BAR CAN LIGHTS

LABEL ALL SWITCHES AS TO FUNCTION
NOTE: SWITCHES MAY BE STACKED
(D) DENOTES OPTIONAL DIMMING CAPABILITY

3 SWITCHBANK (SB)
SCALE: NOT TO SCALE

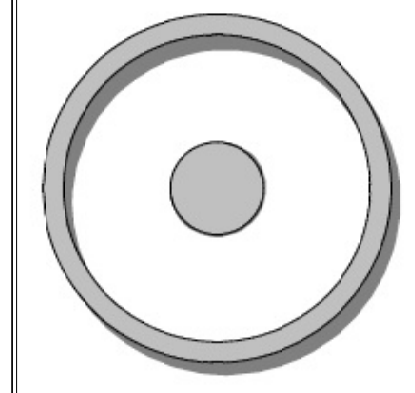
1 LIGHTING PLAN
SCALE: 3/16" = 1'-0"

PROVIDE JUNCTION BOXES FOR WALK-IN COOLER LIGHTS. COORDINATE LOCATION AND REQUIREMENTS.
MINIMUM 10% SHALL BE MAINTAINED IN WALK-IN COOLER. EC SHALL PROVIDE SUPPLEMENTAL "T" FIXTURES IF FREEZER/COOLER GLOBES ARE NOT ADEQUATE.
PROVIDE CONDUIT SEALS FOR ALL LOCATIONS WHERE CONDUITS PENETRATE WALK-IN COOLER WALLS.

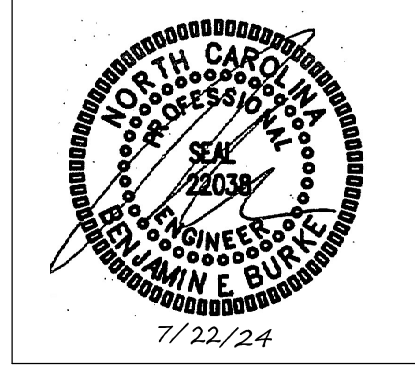
PROVIDE SWITCHED & UN-SWITCHED POWER FROM SAME CIRCUIT FOR ALL TYPE "E" FIXTURES. (TYP)

ALL WIRING, NEW AND EXISTING SHALL COMPLY WITH NEC 518 IN ASSEMBLY AREAS

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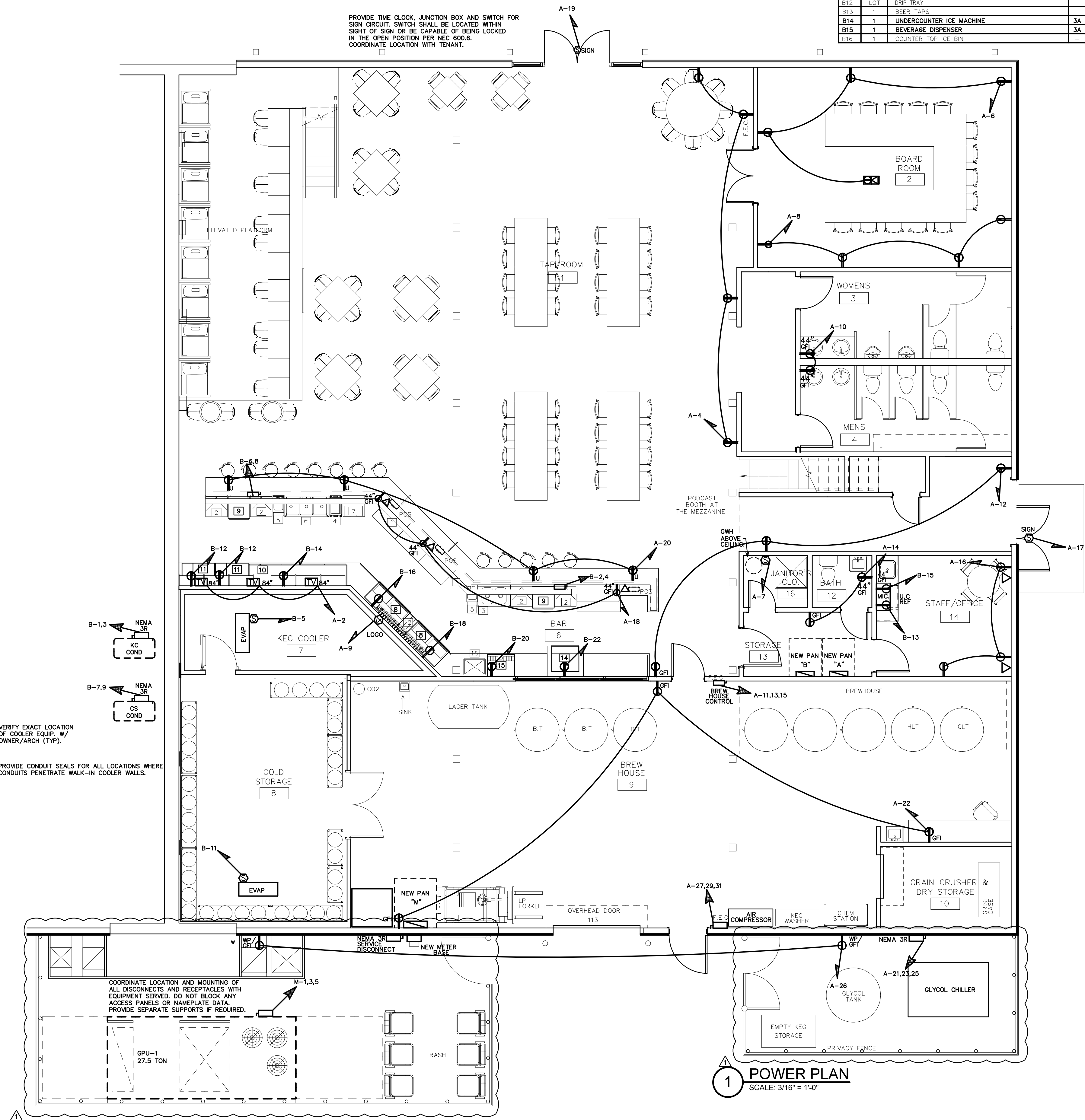


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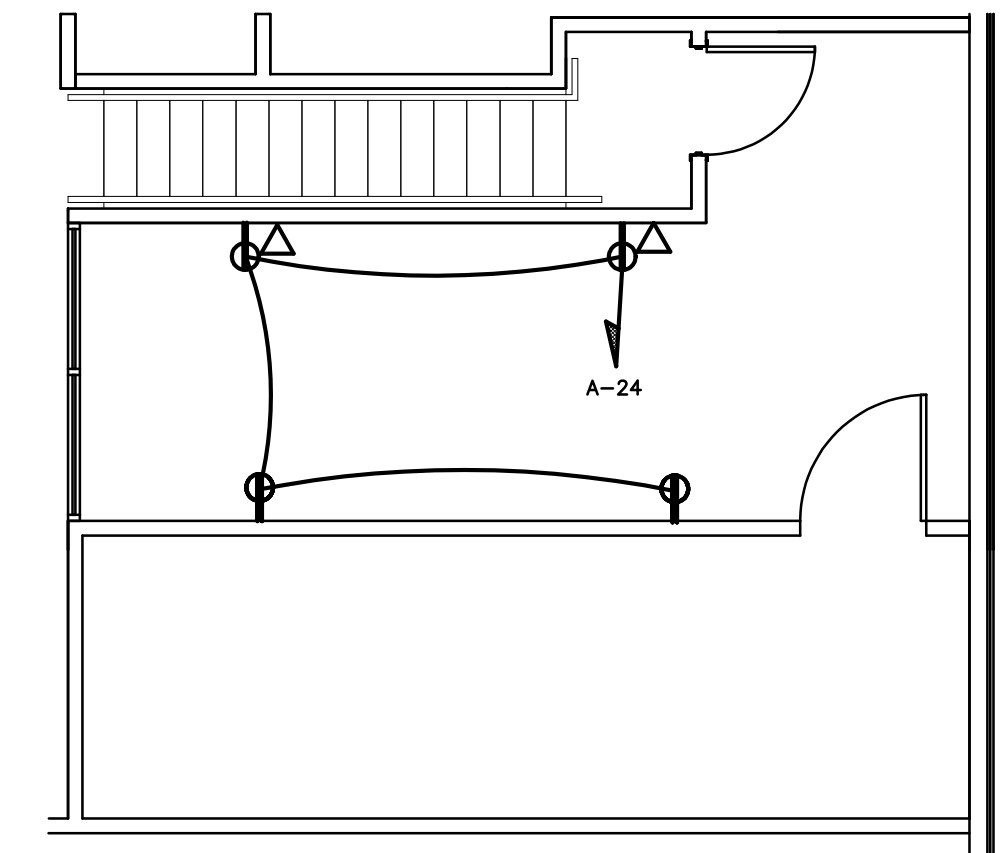
EQUIPMENT SCHEDULE		ELECTRICAL CHARACTERISTICS									
ITEM	QUAN.	DESCRIPTION	F.L.A.	MCA	MOCP	WATTS	HP	VOLTS	PH	CONNECTION	WIRE SIZES
B1	2	SPILL RAIL									
B2	4	UNDERBAR GLASS RACK									
B3	1	TWO COMPARTMENT SINK									
B4	2	TRASH CAN									
B5	2	UNDERBAR HAND SINK									
BB	1	THREE COMPARTMENT SINK									
B7	1	ICE BIN									
BB	2	GLASS FROSTER	5A	13A	20A	610	1/2	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT
B9	2	HIGH TEMP UNDERCOUNTER WAREWASHER	25A	26A	30A	5750	1	208	1	DISCONNECT	2-#10, 1-#10 GND IN 3/4" CONDUIT
B10	1	BACK BAR	3A	8A	20A	345	1/3	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT
B11	2	BACK BAR 1-DOOR REFRIGERATOR	2A	5A	20A	240	1/6	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT
B12	LOT	DRIP TRAY									
B13	1	BEER TAPS									
B14	1	UNDERCOUNTER ICE MACHINE	3A	8A	20A	321	1/3	120	1	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT
B15	1	BEVERAGE DISPENSER	3A	8A	20A	360	1/6	120	3	5-15	2-#12, 1-#12 GND IN 1/2" CONDUIT
B16	1	COUNTER TOP ICE BIN									

PROVIDE TIME CLOCK, JUNCTION BOX AND SWITCH FOR SIGN CIRCUIT. SWITCH SHALL BE LOCATED WITHIN SIGHT OF SIGN OR BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 600.6. COORDINATE LOCATION WITH TENANT.



B-1,3 NEMA 3R KC COND
B-7,9 NEMA 3R CS COND
VERIFY EXACT LOCATION OF COOLER EQUIP. W/ OWNER/ARCH (TYP).
PROVIDE CONDUIT SEALS FOR ALL LOCATIONS WHERE CONDUITS PENETRATE WALK-IN COOLER WALLS.

COORDINATE LOCATION AND MOUNTING OF ALL DISCONNECTS AND RECEPTACLES WITH EQUIPMENT SERVED. DO NOT BLOCK ANY ACCESS PANELS OR NAMEPLATE DATA. PROVIDE SEPARATE SUPPORTS IF REQUIRED.



2 MEZZ. POWER PLAN
SCALE: 3/16" = 1'-0"

1 POWER PLAN
SCALE: 3/16" = 1'-0"

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issue date:

ISSUE	NAME	DATE
1ST	PERMIT SET	6/27/24

revisions:

Revision	Date	Description
Δ AHJ COMMENTS	7/22/24	

drawn by:
-
checked by:
BEB
project no:
23-117

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POWER PLAN
E3

