



Wind Buffalo Renovation

7566 Transit Road, Amherst, NY

S.A. PROJECT # 15108.03
DATE: 04-03-2020

ARCHITECT:

SILVESTRI ARCHITECTS, P.C.

1321 MILLERSPORT HWY., SUITE 101 AMHERST, NY 14221

INTERIOR DESIGNER:

DIALOGUE 38

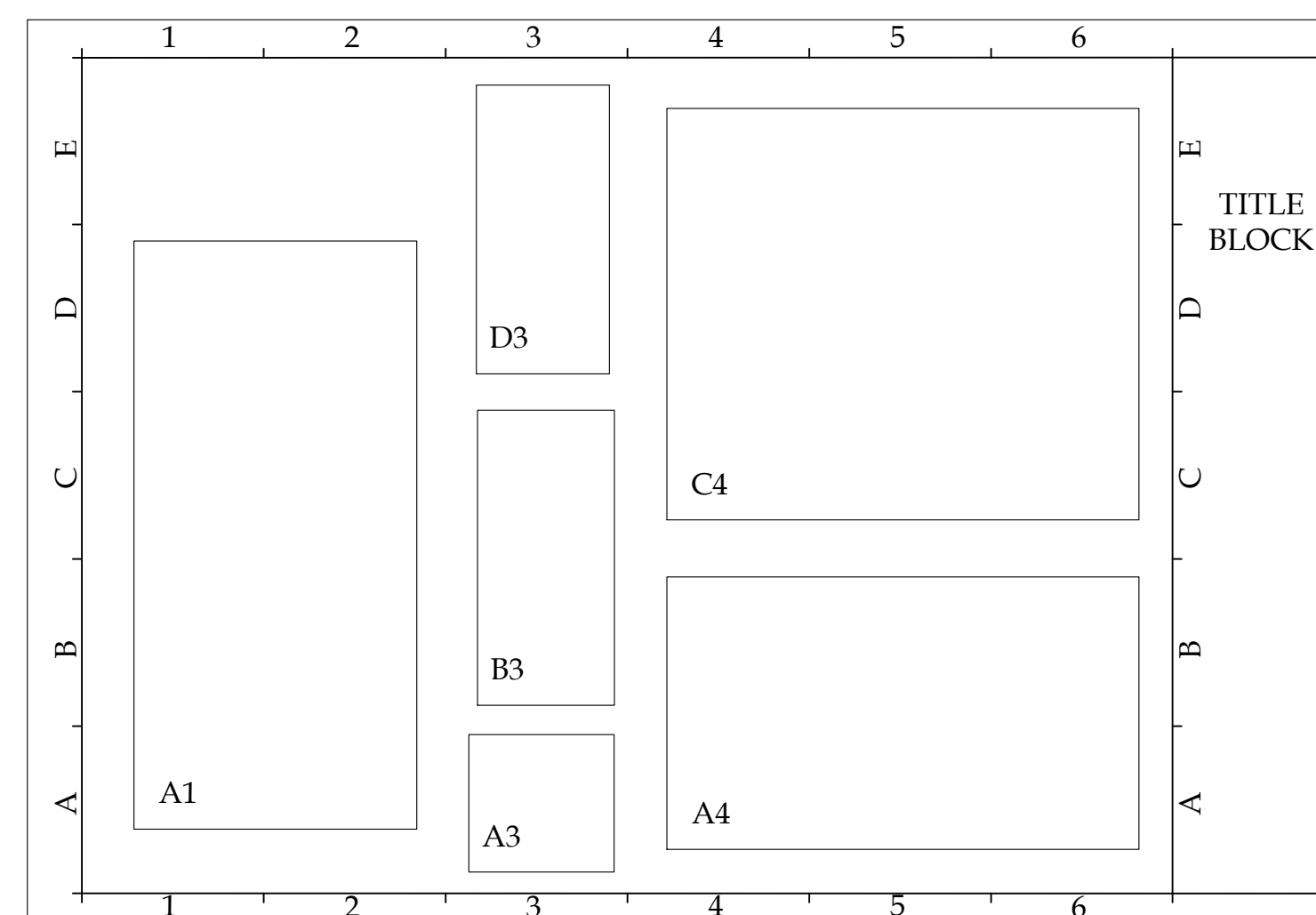
865 DUNDAS STREET WEST, TORONTO, ONTARIO M6J 1V6

MEP ENGINEER:

KROMAC DESIGN

10225 MAIN ST., #10A, CLARENCE, NY 14031

DRAWING AREA LOGIC



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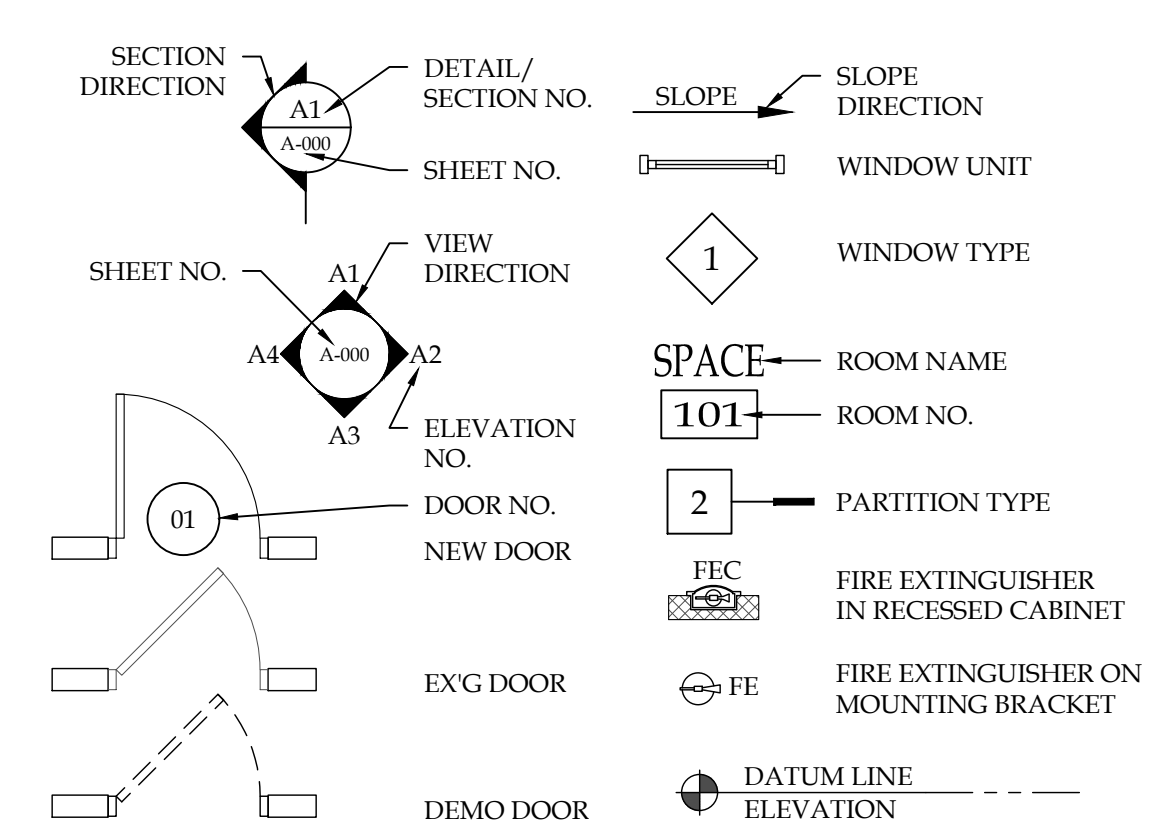
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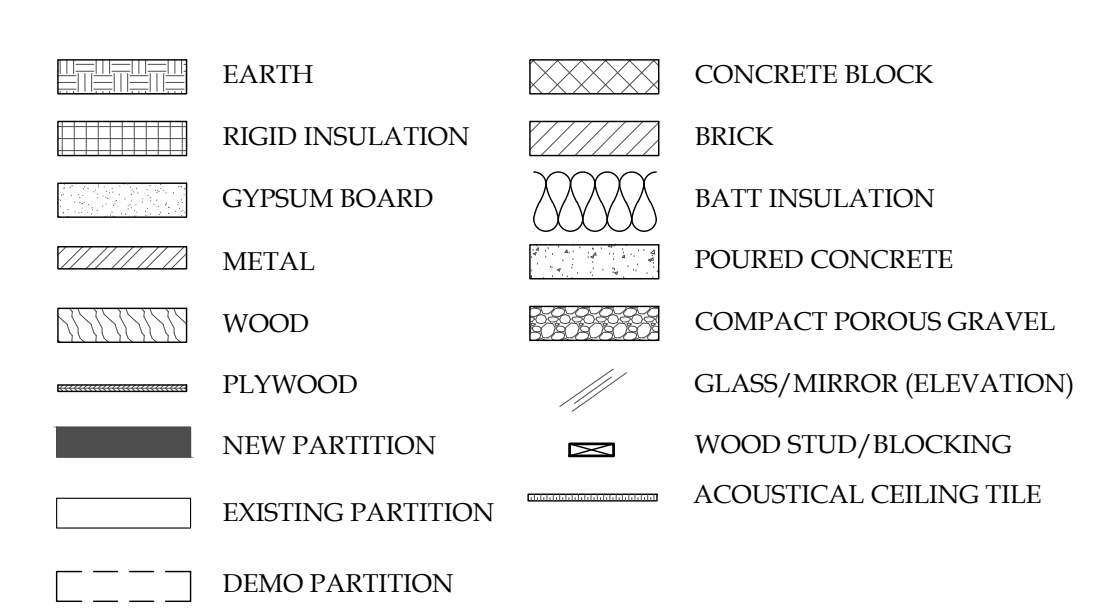
ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
ACT	ACOUSTICAL CEILING TILE	MAS	MASONRY
AC	AIR CONDITION (ING)	MO	MASONRY OPENING
ALT	ALTERNATE	MATL	MATERIAL
ALUM	ALUMINUM	MAX	MAXIMUM
APPX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MEMB	MEMBRANE
ALTO	AUTOMATIC	MET	METAL
BM	BEAM	MTP	METAL TOILET PARTITION
BRG	BEARING	MIN	MINIMUM
BM	BENCH MARK	MISC	MISCELLANEOUS
BLK	BLOCK	MULL	MULLION
BLKG	BLOCKING	NIC	NOT IN CONTRACT
BD	BOARD	NIS	NOT TO SCALE
BOT	BOTTOMS	NOM	NOMINAL
BRK	BRICK	NO	NUMBER
BEJ	BRICK EXPANSION JOINT	OC	ON CENTER
BC	BRICK COURSE	OPNG	OPENING
BLDG	BUILDING	OPP	OPPOSITE
BUR	BUILT-UP ROOFING	OPPH	OPPOSITE HAND
CLG	CEILING	OH	OVERHEAD
CAB	CABINET	PMBC	PREENGINEERED METAL BUILDING CONTRACTOR
CPT	CARPET	PNT	PAINT (ED)
CW	CASEWORK	PNL	PANEL
CB	CATCH BASIN	PTD	PAPER TOWEL DISPENSER
CEM	CEMENT	PTR	PAPER TOWEL RECEPTACLE
CT	CERAMIC TILE	PVMT	PAVEMENT
CHBD	CHALK BOARD	PGBD	PEG BOARD
CLR	CLEAR	PLAS	PLASTER
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONC	CONCRETE	PL	PLATE
CMU	CONCRETE MASONRY UNIT	FOL	POLISHED
CONT	CONTINUOUS	PWD	PLYWOOD
CONTR	CONTRACTOR	PT	POINT
CJ	CONTROL JOINT	PSI	POUNDS PER SQ. INCH
CG	CORNER GUARD	PSF	POUNDS PER SQ. FOOT
CRS	COURSE	PRFAB	PREFABRICATED
DET	DETAIL	PREF	PREFINISHED
DIA	DIAMETER	PROJ	PROJECTION
DIM	DIMENSION	PL	PROPERTY LINE
DISP	DISPENSER	QT	QUARRY TILE
DN	DOWN	RAD	RADIUS
DS	DOWNSPOUT	RWL	RAIN WATER LEADER
DWG	DRAWING	RECPT	RECEPTACLE, ELECTRIC
DF	DRINKING FOUNTAIN	REC	RECESS
DIFF	DIFFUSER	REFR	REFRIGERATOR
EA	EACH	REG	REGISTER
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	REINF	REINFORCE (D) (ING)
ELEC	ELECTRICAL	REQ'D	REQUIRED
EL	ELEVATOR	RES	RECESS (ED)
ELEV	ELEVATION	RCP	REFLECTED CEILING PLAN
EQ	EQUAL	RET	RETURN
EF	EXHAUST FAN	RA	RETURN AIR
EXIST EXG	EXISTING	RVS	REVERSE
EJ	EXPANSION JOINT	REV	REVISION
FB	FACE BRICK	RH	RIGHT HAND
FIN	FINISH (ED)	ROW	RIGHT OF WAY
FA	FIRE ALARM	R	RISER
FEC	FIRE EXTINGUISHER CABINET	RD	ROOF DRAIN
FHC	FIRE HOSE CABINET	RFG	ROOFING
FP	FIRE PROOFING	RM	ROOM
FL	FLOOR	RF	ROUND
RND	FLOOR DRAIN	SDL	SADDLE
FD	FOOT	STG	SEATING
FT	FACE WALL COVERING	SHTH	SHEATHING
FWC	FOOTING	SHT	SHEET
FTG	FOUNDATION	SHR	SHOWER
FDIN	FURRING	SIM	SIMILAR
FUR	GALLON	SPKR	SPEAKER
GAL	GAGE	SPEC	SPECIFICATIONS
GA	GENERAL CONTRACTOR	SQ	SQUARE
GC	GLASS	SST	STAINLESS STEEL
GL	GRAB BAR	SP	STAND PIPE
GB	GYPSUM WALL BOARD	STD	STANDARD
GWB	GYPSUM	SD	STORM DRAIN
GYP	HARDWARE	SGT	STRUCTURAL GLAZED TILE
HDW	HARDWOOD	STRUCT	STRUCTURAL
WD	HEATING, VENTILATING, & AIR CONDITIONING HEIGHT	SUSP	SUSPENDED
HVAC	HOLLOW CORE	SW	SWITCH
HT	HOLLOW METAL	SY	SHEET VINYL
HC	HORIZONTAL	TB	TACKBOARD
HM	HORIZONTAL	TEL	TELEPHONE
HORIZ	HORIZONTAL	TEMP	TEMPERATURE
HB	HOSE BIB	TEX	TEXTURE
HW	HOT WATER	THK	THICK (NESS)
INSUL	INSULATE (D) (ION)	THR	THRESHOLD
INS GL	INSULATED GLASS	TP	TOILET PAPER HOLDER
INV	INVERT	T/O	TOP OF
JAN	JANITOR	TB	TOWEL BAR
INT	JOINT	TYP	TYPICAL
KIT	KITCHEN	UCL	UNDER CABINET LIGHT
KO	KNOCK OUT	UC	UNDERCLUT
LAM	LAMINATED	UR	URNAL
LAV	LAVATORY	VTR	VENT THRU ROOF
LH	LEFT HAND	VENT	VENTILATOR
LGT	LENGTH	VERT	VERTICAL
LT	LIGHT	VEST	VESTIBULE
LF	LINEAR FEET	VCT	VINYL COMPOSITE TILE
LTL	LINTEL	VIF	VERIFY IN FIELD
LL	LIVE LOAD	VWC	VINYL WALL COVERING
LLH	LONG LEG HORIZONTAL	WSCOT	WAINSCOT
LLV	LONG LEG VERTICAL	WS	WEATHER STRIP
LMP	LIGHT GAUGE METAL	WT	WEIGHT
FRAMING	Louver	WWF	WELDED WIRE FABRIC
LVR	LOW POINT	WCDF	WHEELCHAIR DRINKING FOUNTAIN
LP	LUXURY VINYL TILE	W/	WITH
LVT	MACHINE	W/O	WITHOUT
MACH	MANHOLE	WD	WOOD
MH			

DRAFTING SYMBOLS



MATERIAL SYMBOLS

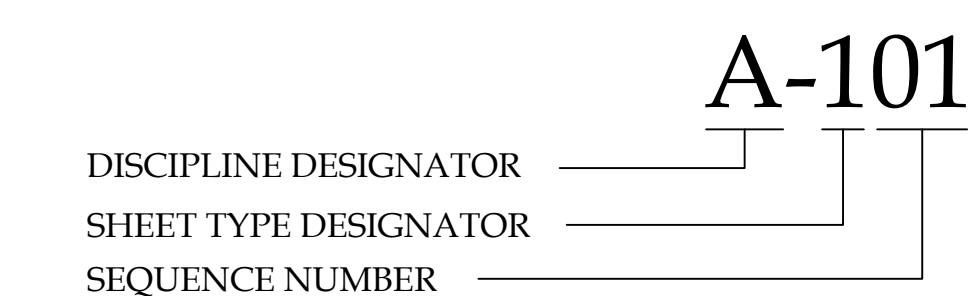


BUILDING DATA

OCCUPANCY CLASSIFICATION: A-2
CONSTRUCTION TYPE: IIB
GROSS PROJECT AREA: 6,118 SF
NET PROJECT AREA: 5,845 SF
SPRINKLERED
OCCUPANT LOAD: 251 PEOPLE

ISSUE

SHEET IDENTIFICATION LOGIC



DISCIPLINE DESIGNATOR	SHEET TYPE DESIGNATOR
G	GENERAL
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
0	GENERAL
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES & DIAGRAMS

Wind Buffalo Renovation

7566 Transit Road, Amherst, NY



S.A. PROJECT # 15108.03
DATE: 04-03-2020
SA PROJECT TEAM: PRINCIPAL: P.Silvestri PROJ. ARCHITECT: G.Tomsic JOB CAPTAIN: J.Somers DRAFTER: INTERIORS:

- NOTES:
1. REPLACE ANY DEAD LANDSCAPING IN KIND TO MATCH PLAN.
 2. INSTALL NEW ASPHALT TOP COAT OVER ALL EXISTING ASPHALT PAVING. PATCH AND REPAIR EXISTING TO FORM SUITABLE BASE. PAINT NEW STRIPING, DIRECTIONAL ARROWS, ETC. TO MATCH EXISTING.

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Wind Buffalo Renovation

7566 Transit Rd.
Amherst, NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P. Silvestri
 PROJ. ARCH. G. Tomasic DRAFTER _____
 JOB CAPT. J. Somers INTERIORS _____

SEAL:

TITLE:

SITE PLAN

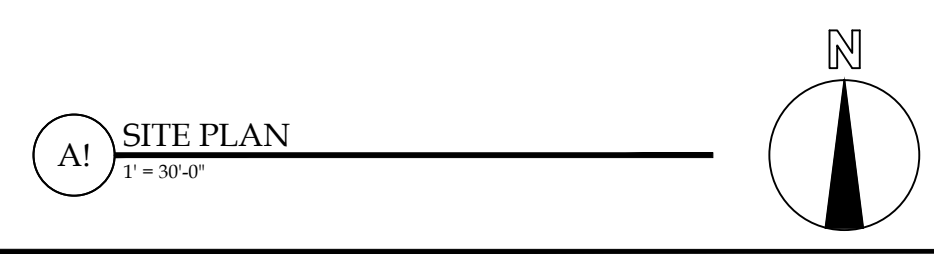
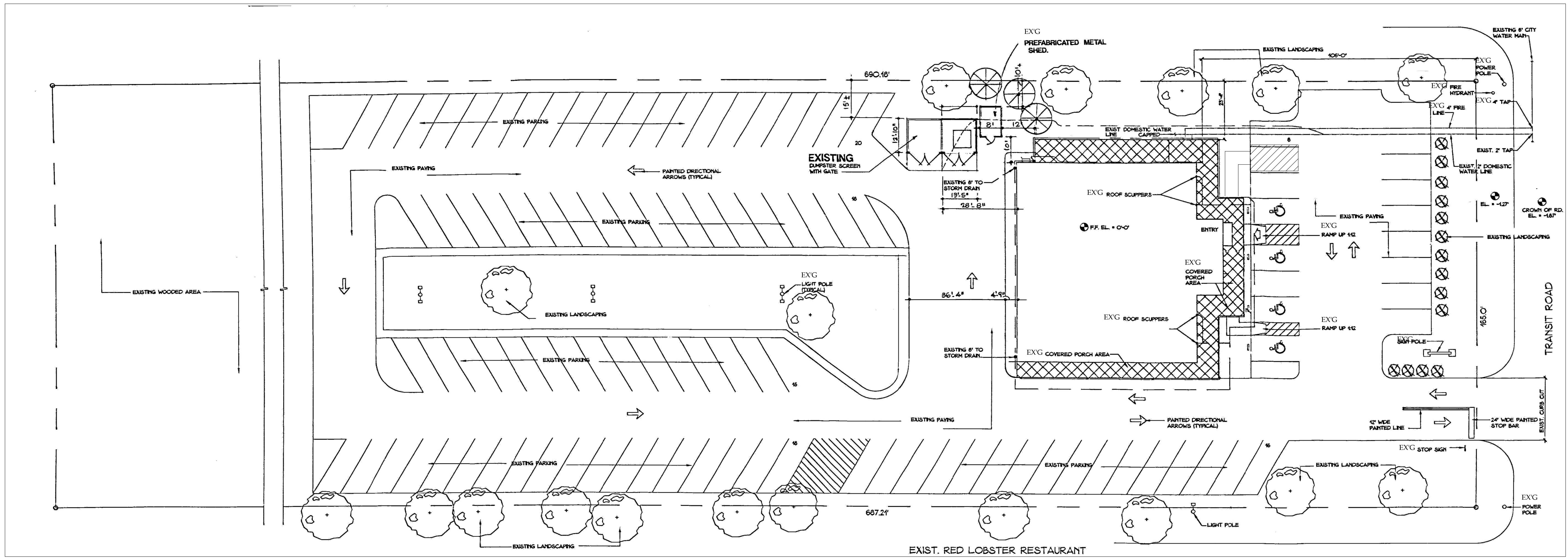


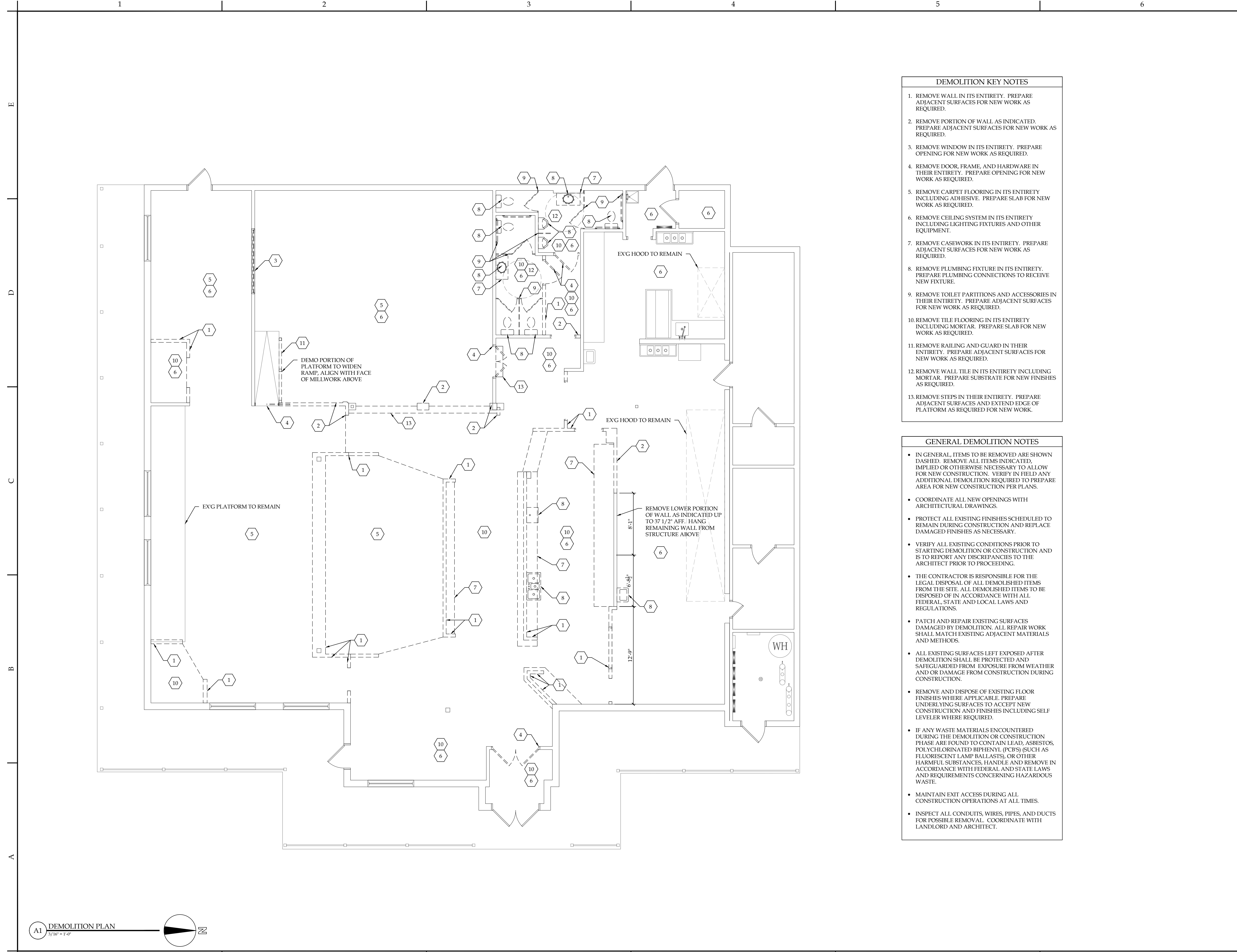
SILVESTRI
ARCHITECTS · PC

1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: C-101





- DEMOLITION KEY NOTES**
1. REMOVE WALL IN ITS ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW WORK AS REQUIRED.
 2. REMOVE PORTION OF WALL AS INDICATED. PREPARE ADJACENT SURFACES FOR NEW WORK AS REQUIRED.
 3. REMOVE WINDOW IN ITS ENTIRETY. PREPARE OPENING FOR NEW WORK AS REQUIRED.
 4. REMOVE DOOR, FRAME, AND HARDWARE IN THEIR ENTIRETY. PREPARE OPENING FOR NEW WORK AS REQUIRED.
 5. REMOVE CARPET FLOORING IN ITS ENTIRETY INCLUDING ADHESIVE. PREPARE SLAB FOR NEW WORK AS REQUIRED.
 6. REMOVE CEILING SYSTEM IN ITS ENTIRETY INCLUDING LIGHTING FIXTURES AND OTHER EQUIPMENT.
 7. REMOVE CASEWORK IN ITS ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW WORK AS REQUIRED.
 8. REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. PREPARE PLUMBING CONNECTIONS TO RECEIVE NEW FIXTURE.
 9. REMOVE TOILET PARTITIONS AND ACCESSORIES IN THEIR ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW WORK AS REQUIRED.
 10. REMOVE TILE FLOORING IN ITS ENTIRETY INCLUDING MORTAR. PREPARE SLAB FOR NEW WORK AS REQUIRED.
 11. REMOVE RAILING AND GUARD IN THEIR ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW WORK AS REQUIRED.
 12. REMOVE WALL TILE IN ITS ENTIRETY INCLUDING MORTAR. PREPARE SUBSTRATE FOR NEW FINISHES AS REQUIRED.
 13. REMOVE STEPS IN THEIR ENTIRETY. PREPARE ADJACENT SURFACES AND EXTEND EDGE OF PLATFORM AS REQUIRED FOR NEW WORK.

- GENERAL DEMOLITION NOTES**
- IN GENERAL, ITEMS TO BE REMOVED ARE SHOWN DASHED. REMOVE ALL ITEMS INDICATED, IMPLIED OR OTHERWISE NECESSARY TO ALLOW FOR NEW CONSTRUCTION. VERIFY IN FIELD ANY ADDITIONAL DEMOLITION REQUIRED TO PREPARE AREA FOR NEW CONSTRUCTION PER PLANS.
 - COORDINATE ALL NEW OPENINGS WITH ARCHITECTURAL DRAWINGS.
 - PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN DURING CONSTRUCTION AND REPLACE DAMAGED FINISHES AS NECESSARY.
 - VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING DEMOLITION OR CONSTRUCTION AND IS TO REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLISHED ITEMS FROM THE SITE. ALL DEMOLISHED ITEMS TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
 - PATCH AND REPAIR EXISTING SURFACES DAMAGED BY DEMOLITION. ALL REPAIR WORK SHALL MATCH EXISTING ADJACENT MATERIALS AND METHODS.
 - ALL EXISTING SURFACES LEFT EXPOSED AFTER DEMOLITION SHALL BE PROTECTED AND SAFEGUARDED FROM EXPOSURE FROM WEATHER AND OR DAMAGE FROM CONSTRUCTION DURING CONSTRUCTION.
 - REMOVE AND DISPOSE OF EXISTING FLOOR FINISHES WHERE APPLICABLE. PREPARE UNDERLYING SURFACES TO ACCEPT NEW CONSTRUCTION AND FINISHES INCLUDING SELF LEVELER WHERE REQUIRED.
 - IF ANY WASTE MATERIALS ENCOUNTERED DURING THE DEMOLITION OR CONSTRUCTION PHASE ARE FOUND TO CONTAIN LEAD, ASBESTOS, POLYCHLORINATED BIPHENYL (PCBS) (SUCH AS FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES, HANDLE AND REMOVE IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.
 - MAINTAIN EXIT ACCESS DURING ALL CONSTRUCTION OPERATIONS AT ALL TIMES.
 - INSPECT ALL CONDUITS, WIRES, PIPES, AND DUCTS FOR POSSIBLE REMOVAL. COORDINATE WITH LANDLORD AND ARCHITECT.

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
 PROJ. ARCH. G. Tomsic DRAFTER _____
 JOB CAPT. J. Somers INTERIORS _____

SEAL:

TITLE:

DEMOLITION PLAN

SILVESTRI ARCHITECTS · PC
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 AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: **15108.03** DATE: **04-03-20**

DRAWING #: **AD-101**

ICC ANSI A117-1-2009
THIS SHEET CONTAINS EXCERPTS FROM ICC A117-1-2009.
REFER TO FULL DOCUMENT FOR MORE INFORMATION.

302 FLOOR SURFACES
302.1 General. Floor surfaces shall be stable, firm, and slip resistant, and shall comply with Section 303.
302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level pile, or level cut/monofilament texture. The pile shall be 1/2 inch maximum in height. Exposed ends of carpet shall be fastened to the floor and shall run along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303.
302.3 Carpet on Floor Surfaces.
302.3.1 General. Carpet on floor surfaces shall be of a size that does not permit the passage of a 3/8 inch diameter sphere, except as allowed in Sections 407.4.3, 408.4.3, 409.4.3, 410.4, and 405.10. Elongated openings shall be oriented so that the long dimension is perpendicular to the predominant direction of travel.

303 CHANGES IN LEVEL
303.1 General. Changes in level in floor surfaces shall comply with Section 303.
303.2 Vertical. Changes in level of 1/4 inch maximum in height shall be permitted to be vertical.
303.3 Beveled. Changes in level greater than 1/4 inch in height and not more than 1/2 inch maximum in height shall be beveled with a slope not steeper than 1:2.
303.4 Ramps. Changes in level greater than 1/2 inch in height shall be ramped and shall comply with Section 405 or 406.

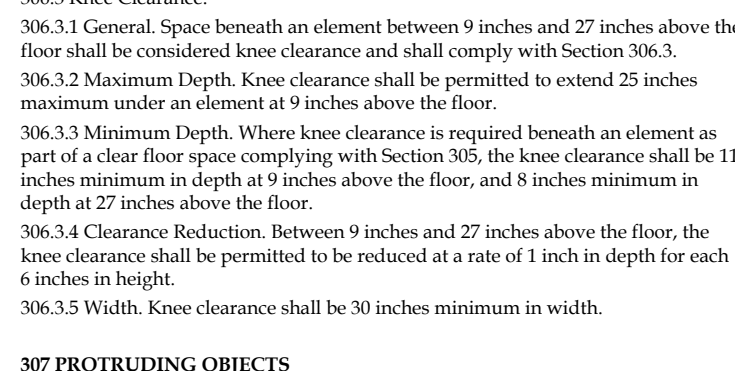
304 TURNING SPACE
304.1 General. A turning space shall comply with Section 304.
304.2 Floor Surface. Floor surfaces of a turning space shall comply with Section 302. Changes in level are not permitted within the turning space.
304.3 Size. Turning spaces shall comply with Section 304.3.1 or 304.3.2.
304.3.1 Circular Space. The turning space shall be a circular space with a 60-inch minimum diameter. The turning space shall be permitted to include knee and toe clearance complying with Section 306.
304.3.2 Shaped Space. The turning space shall be a shaped space within a 60-inch minimum square, with arms and base 36 inches minimum in width. Each arm of the T shall be 24 inches minimum in width, and the base shall be 36 inches minimum clear of obstructions 24 inches minimum. The turning space shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm.
304.4 Door Swing. Unless otherwise specified, doors shall be permitted to swing into turning spaces.

305 CLEAR FLOOR SPACE
305.1 General. A clear floor space shall comply with Section 305.
305.2 Floor Surfaces. Floor surfaces of a clear floor space shall comply with Section 302. Changes in level are not permitted within the clear floor space.
305.3 Slope. Slopes not steeper than 1:48 shall be permitted.
305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor space shall be permitted to include knee and toe clearance complying with Section 306.
305.5 Positioning. Unless otherwise specified, the clear floor space shall be positioned for either forward or parallel approach to an element.
305.6 Approach. One full, unobstructed side of the clear floor space shall adjoin or overlap an accessible route or adjoin another clear floor space.
305.7 Allowance. If a clear floor space is in an otherwise confined area on all or part of three sides, additional maneuvering clearances complying with Sections 403.7.1 and 305.7.2 shall be provided, as applicable.
305.7.1 Parallel Approach. Unless otherwise specified, a parallel approach shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm.
305.7.2 Forward Approach. Where the clear floor space is positioned for a forward approach, the allowable knee clearance at 9 inches above the floor shall not be considered the toe clearance.
305.8 Width. Toe clearance shall be 30 inches minimum in width.

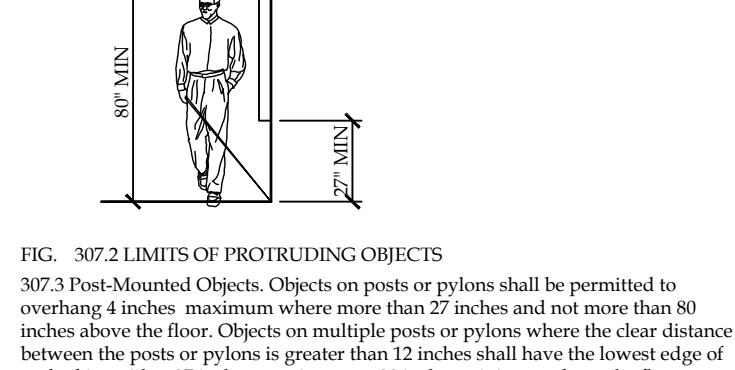
306 KNEE AND TOE CLEARANCE
306.1 General. Where space beneath an element is included as part of clear floor space at an element, at a clearance, at a turning space, the space shall comply with Section 306. Additional space shall not be provided beneath an element, but shall not be considered as part of the clear floor space or turning space.
306.2 Toe Clearance.
306.2.1 General. Space beneath an element between the floor and 9 inches above the floor shall be considered toe clearance and shall comply with Section 306.2.
306.2.2 Maximum Depth. Toe clearance shall be permitted to extend 25 inches maximum under an element.
306.2.3 Minimum Depth. Where toe clearance is required as an element as part of a clear floor space complying with Section 305, the toe clearance shall extend 17 inches minimum beneath the element.
306.2.4 Additional Clearance. Space extending greater than 6 inches beyond the available knee clearance at 9 inches above the floor shall not be considered the toe clearance.
306.2.5 Width. Toe clearance shall be 30 inches minimum in width.
306.3 Knee Clearance.
306.3.1 General. Space beneath an element between 9 inches and 27 inches above the floor shall be considered knee clearance and shall comply with Section 306.3.
306.3.2 Maximum Depth. Knee clearance shall be permitted to extend 25 inches maximum under an element at 9 inches above the floor.
306.3.3 Minimum Depth. Where knee clearance is required beneath an element as part of a clear floor space complying with Section 305, the knee clearance shall be 11 inches minimum in depth at 9 inches above the floor, and 8 inches minimum in depth at 27 inches above the floor.
306.3.4 Clearance Reduction. Between the 9 inches and 27 inches above the floor, the knee clearance shall be permitted to be reduced at a rate of 1 inch in depth for each 6 inches in height.
306.3.5 Width. Knee clearance shall be 30 inches minimum in width.

307 PROTRUDING OBJECTS
307.1 General. Protruding objects on circulation paths shall comply with Section 307.
307.2 Protrusion Limits. Objects with leading edges below 27 inches and not more than 80 inches above the floor shall protrude 4 inches maximum horizontally into the circulation path.
EXCEPTION: Handrails shall be permitted to protrude 4 1/4 inches maximum.

307.2 LIMITS OF PROTRUDING OBJECTS
307.2.1 Post-Mounted Obstructions. Objects on posts or pylons shall be permitted to protrude 4 inches maximum above the floor and not more than 80 inches above the floor. Objects on multiple posts or pylons where the clear distance between the posts or pylons is greater than 12 inches shall have the lowest edge of each object either 27 inches maximum or 80 inches minimum above the floor.
EXCEPTION: Sloping portions of handrails between the top and bottom riser of stairs and above the ramp runs shall not be required to comply with Section 307.2.
307.2.2 Vertical Clearance. Vertical clearance shall be 60 inches minimum. Rails or other barriers shall be provided where the vertical clearance is less than 80 inches. The leading edge of such rails or barriers shall be located 27 inches minimum above the floor.
EXCEPTION: Door closers and door stops shall be permitted to be 78 inches minimum above the floor.
307.2.3 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

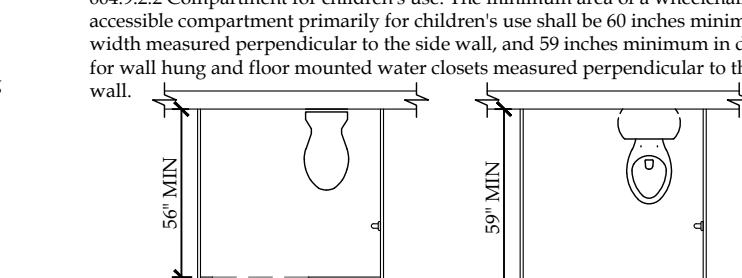
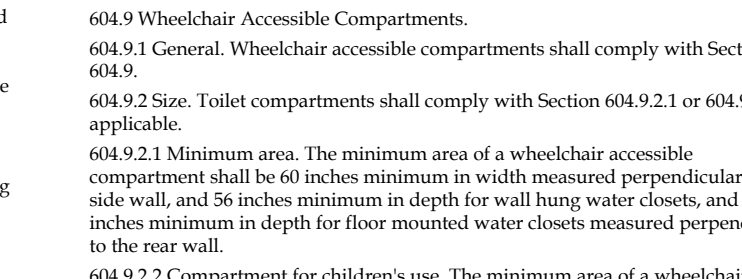
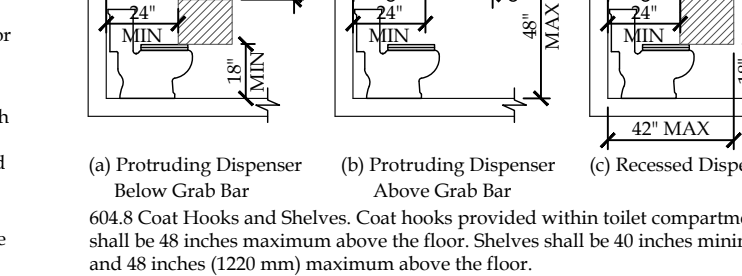
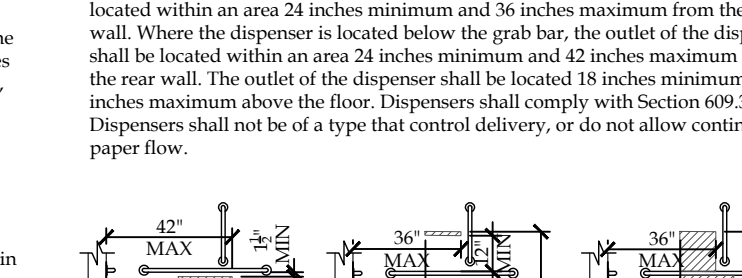
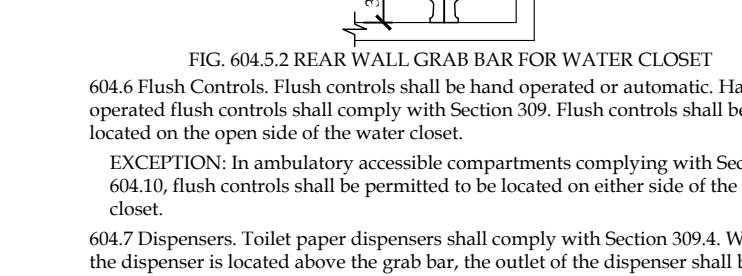
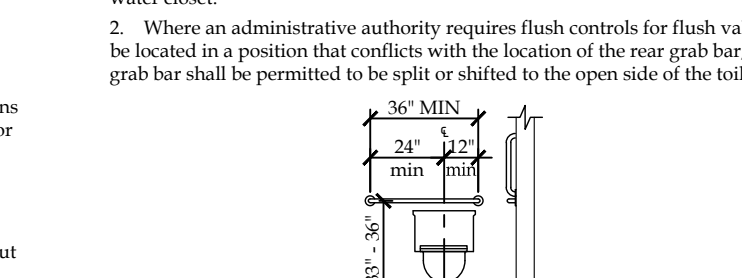
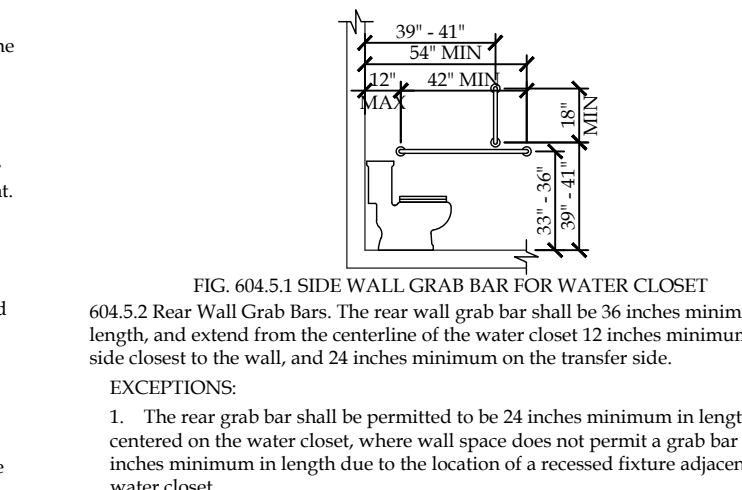
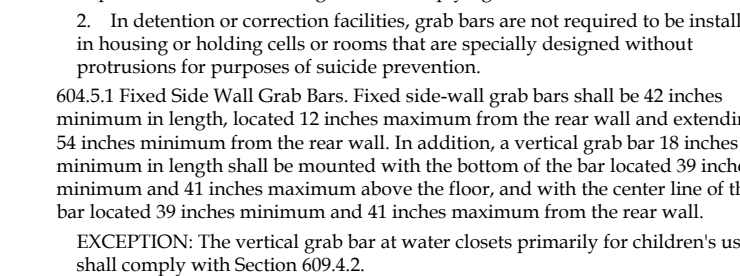
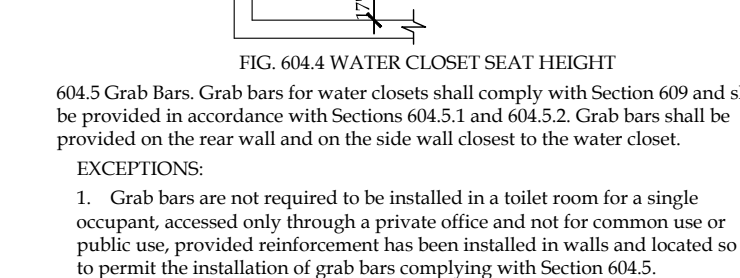
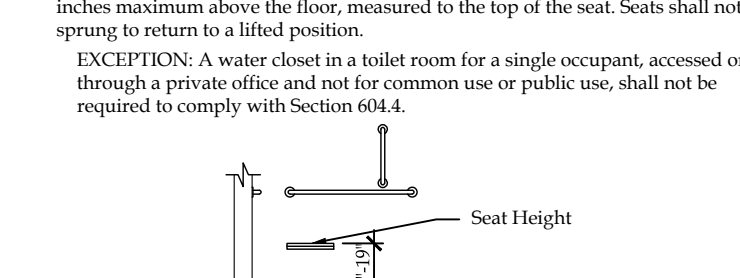
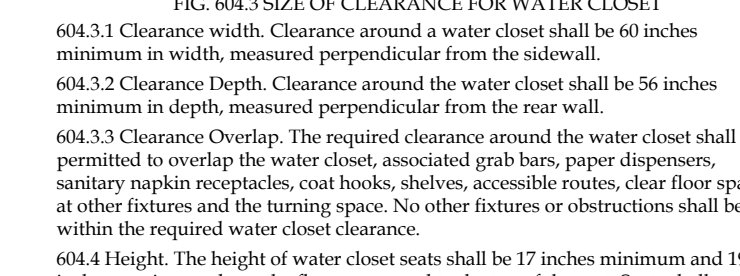
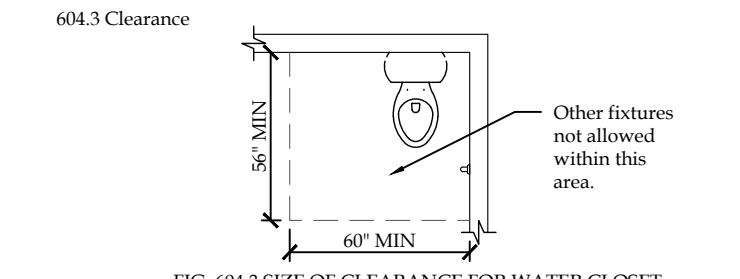
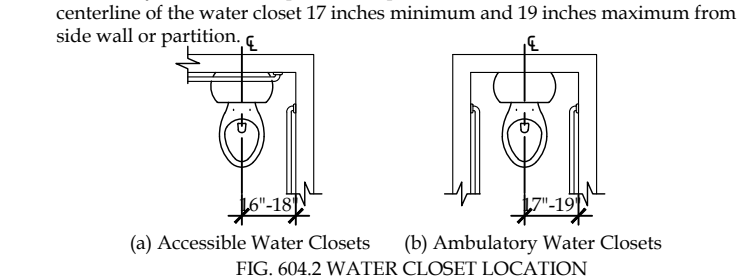
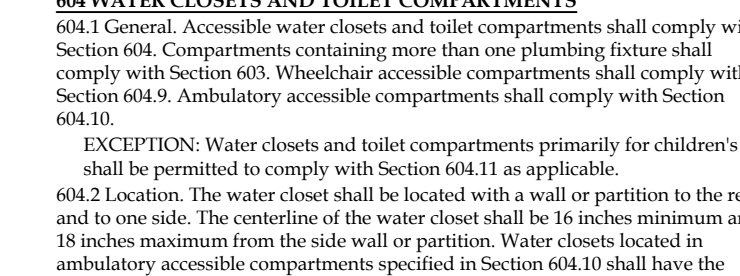
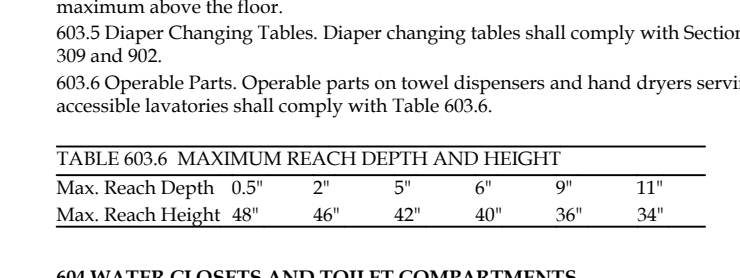
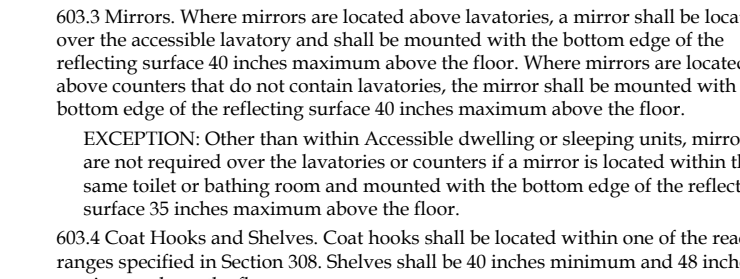
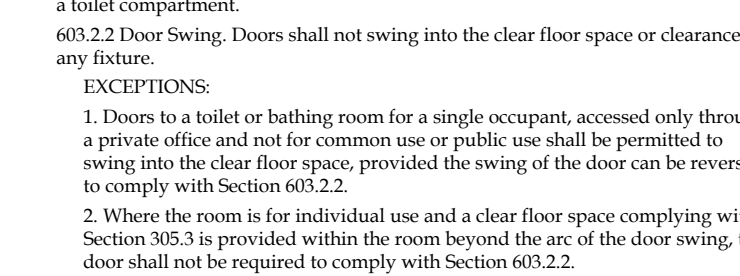
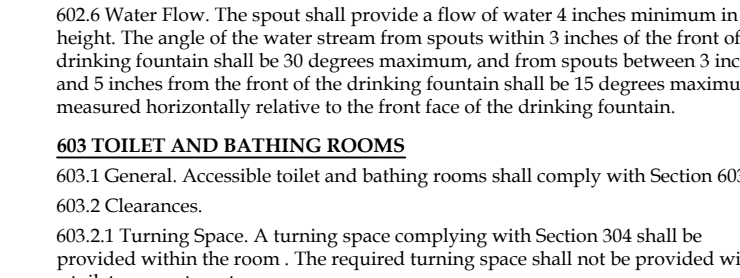
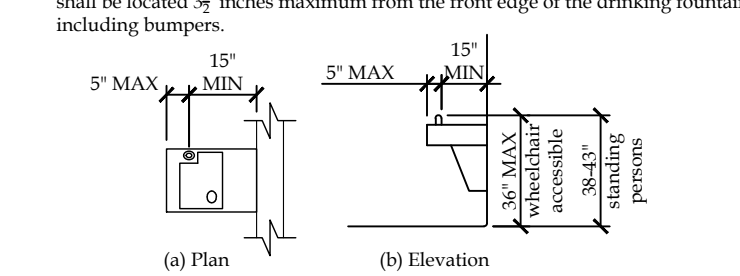
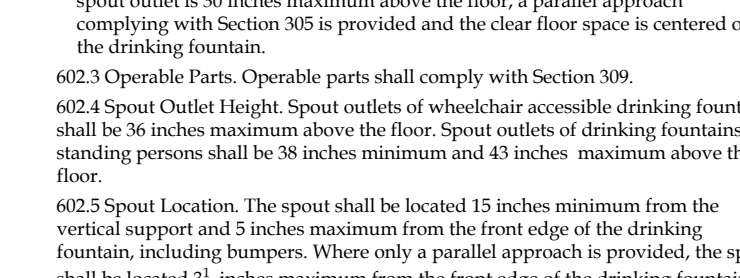
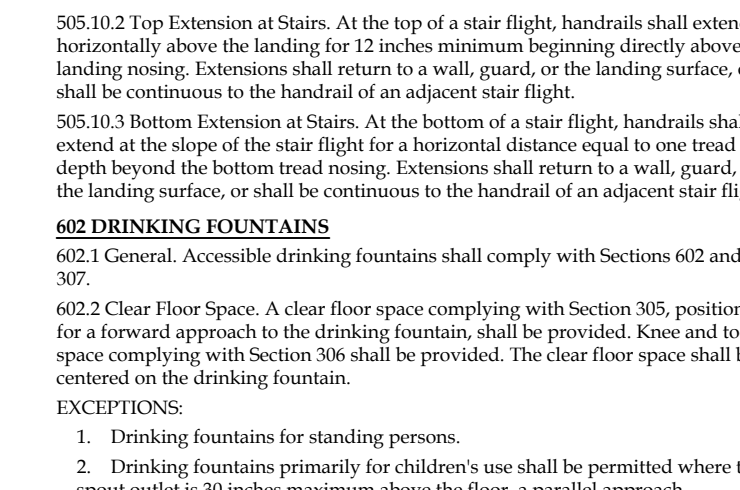
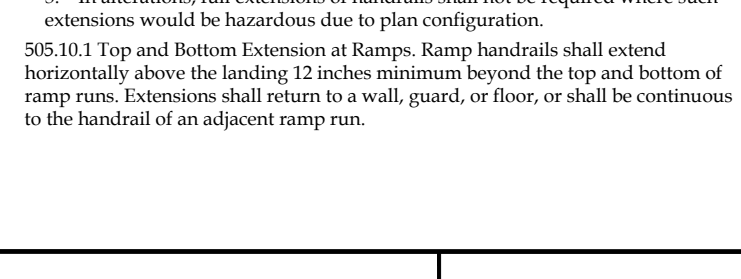
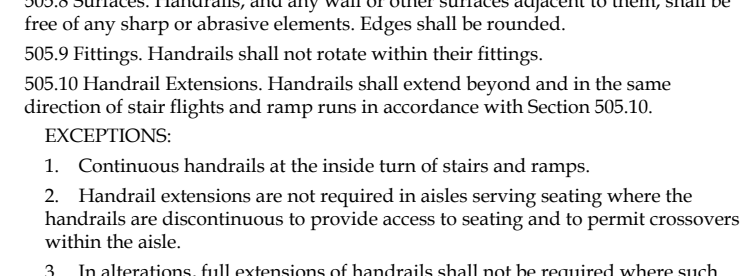
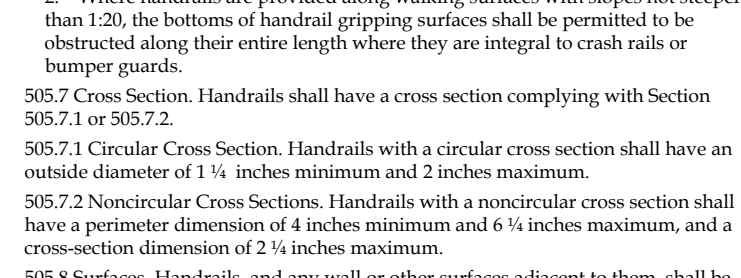
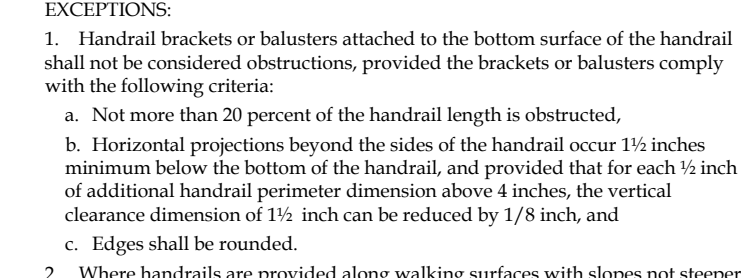
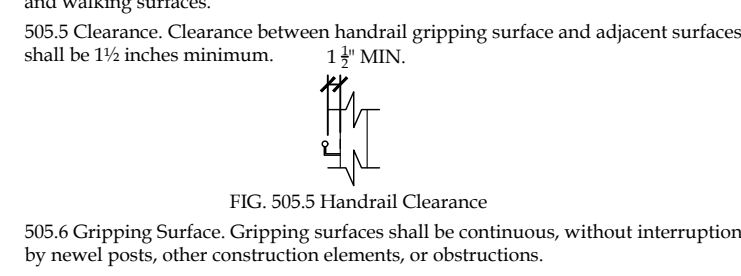
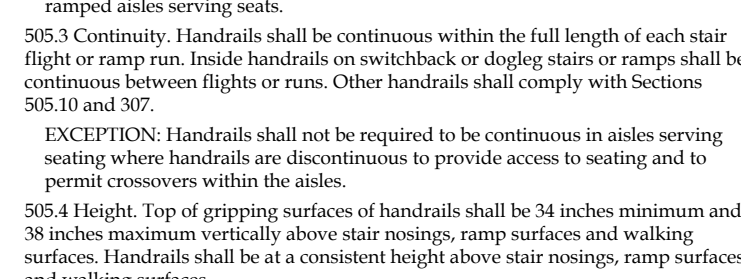
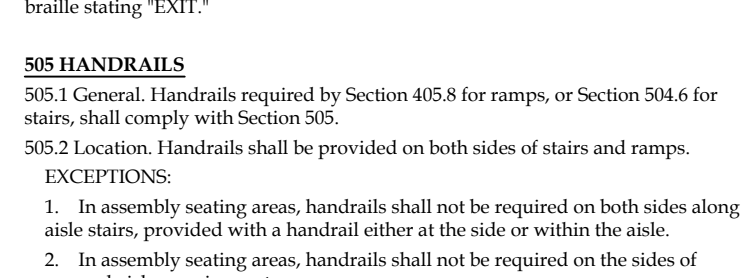
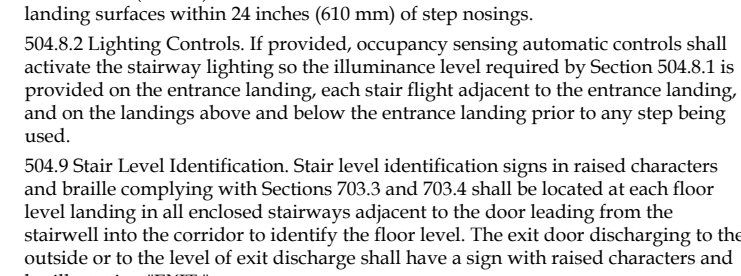
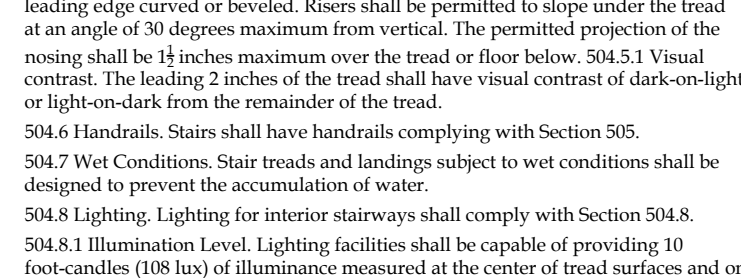
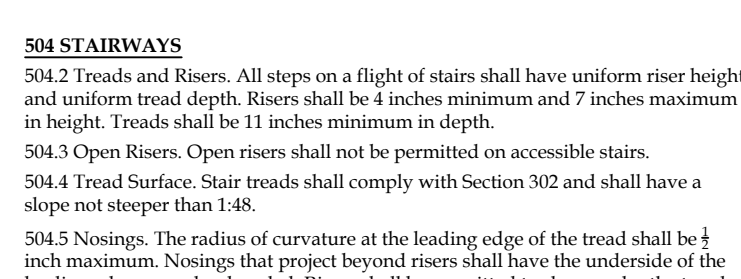
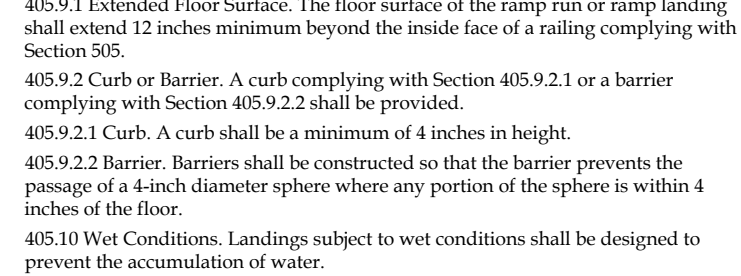
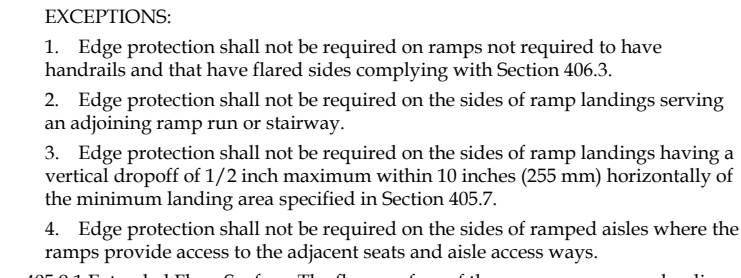
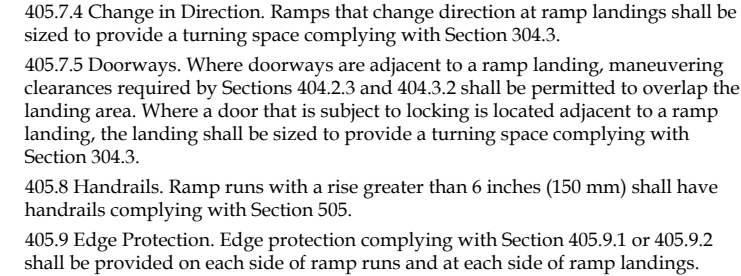
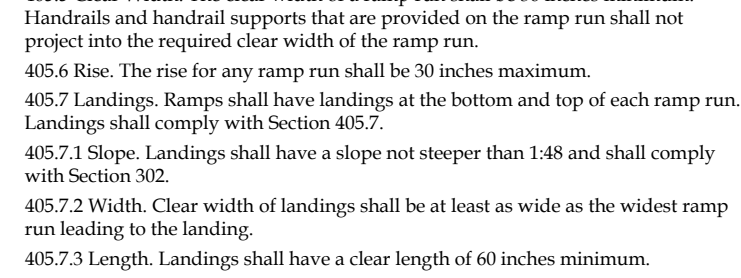
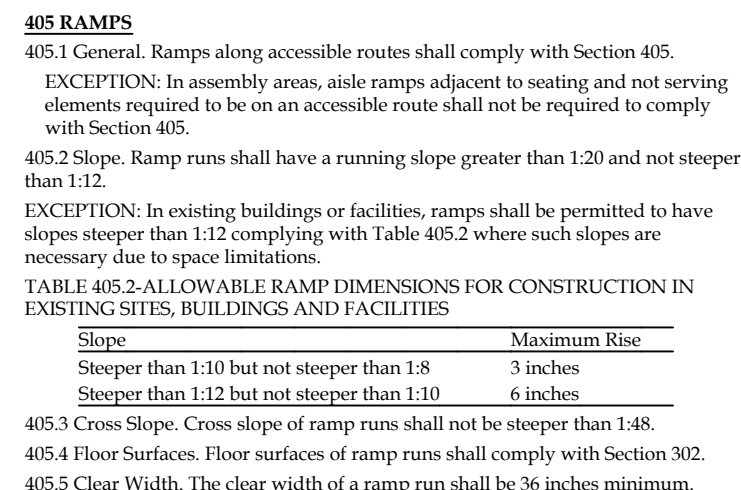
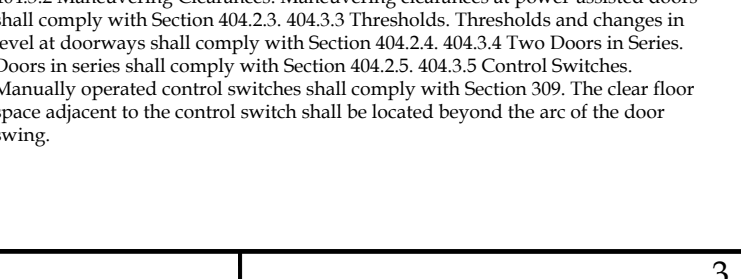
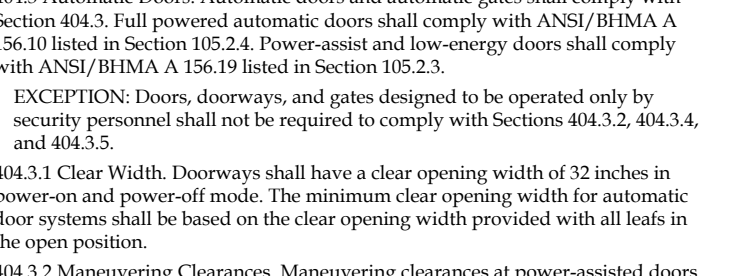
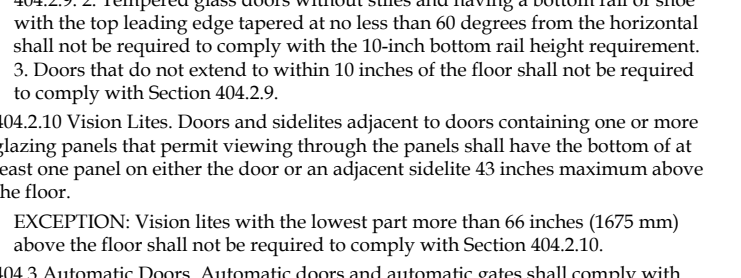
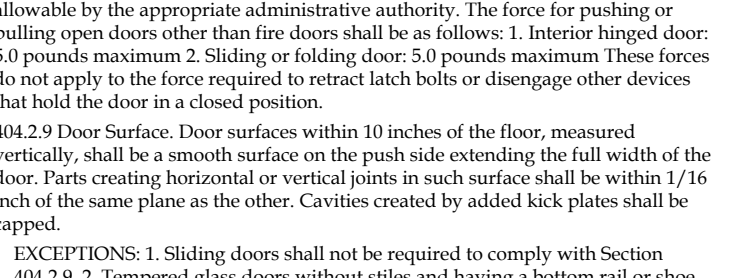
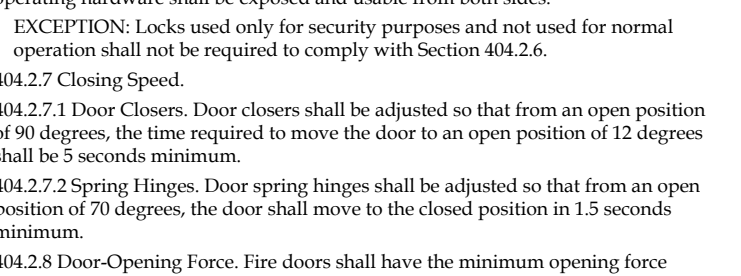
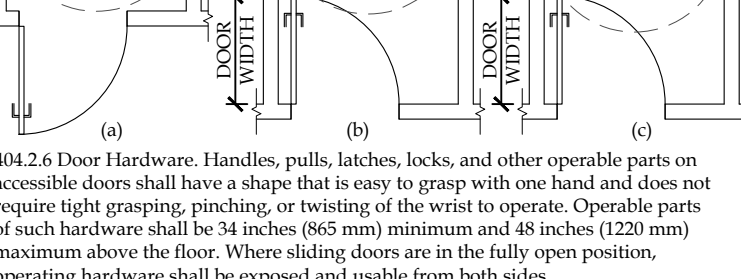
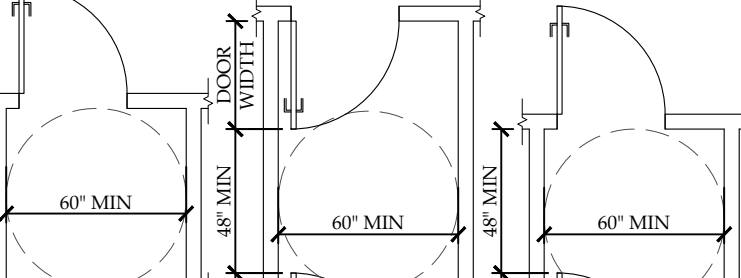
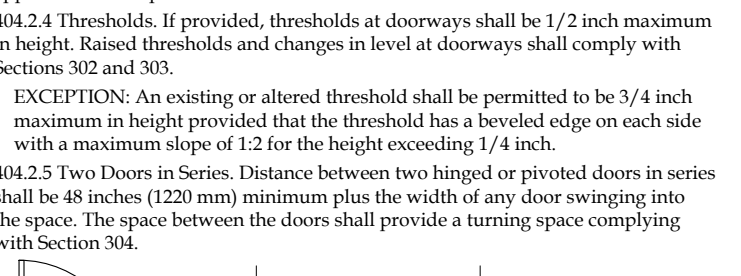
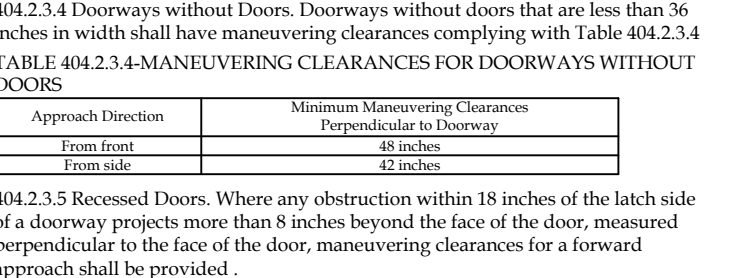
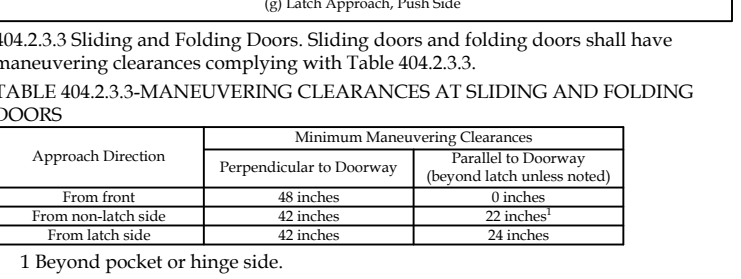
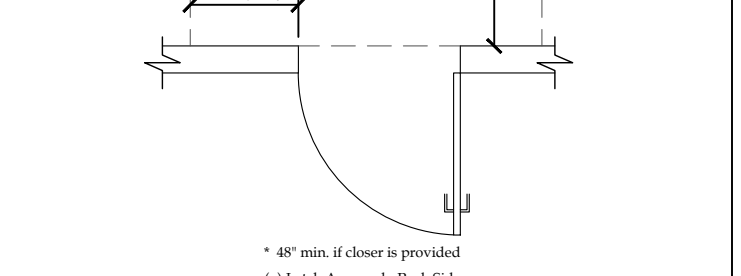
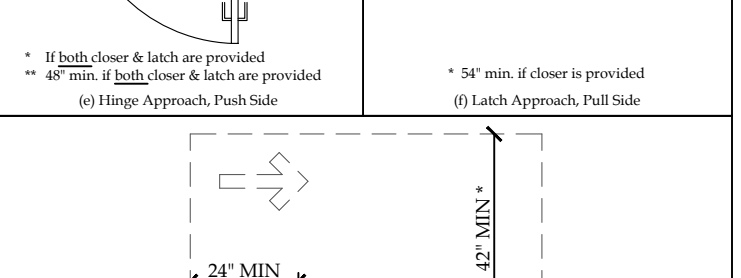
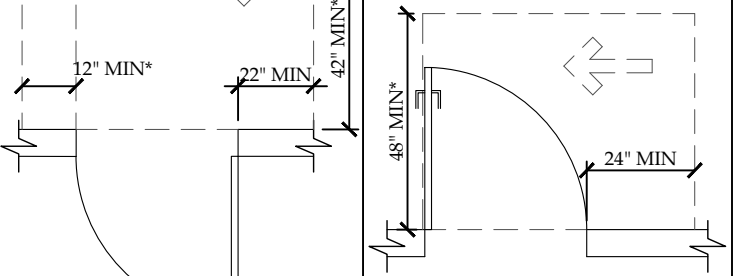
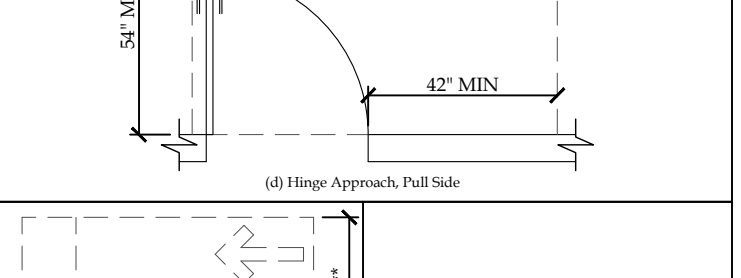
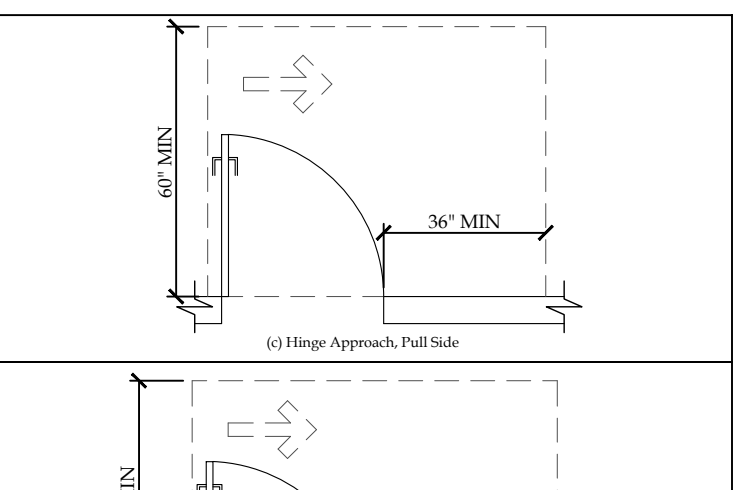
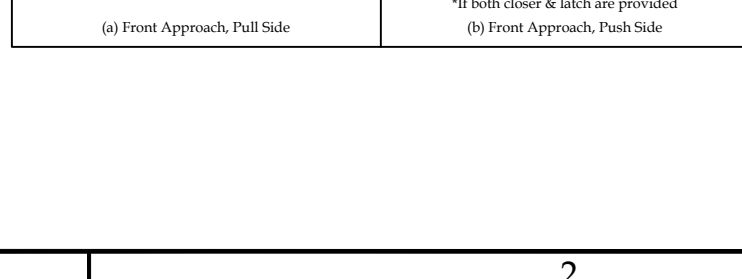
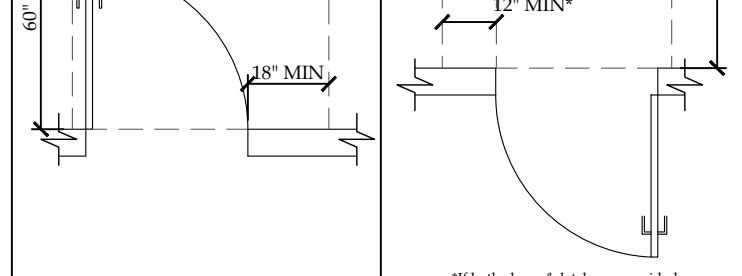
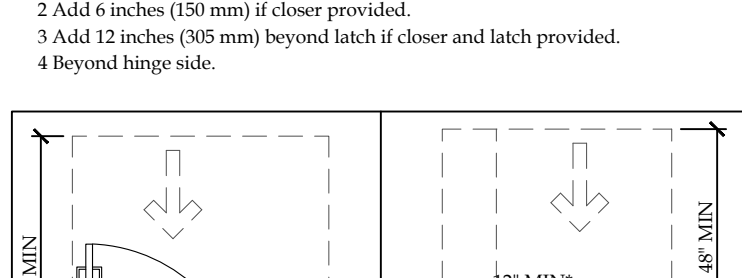
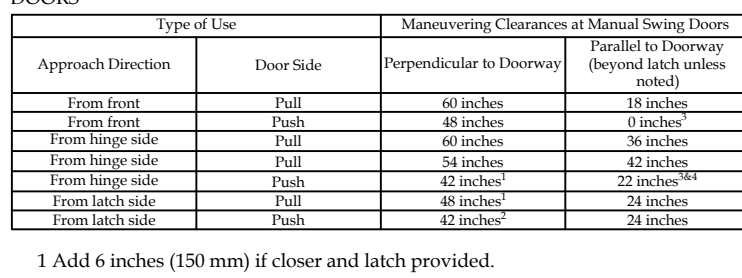
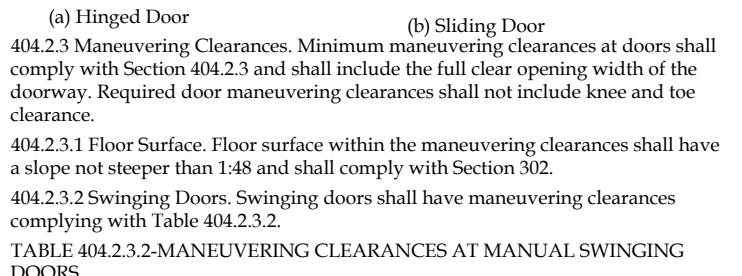
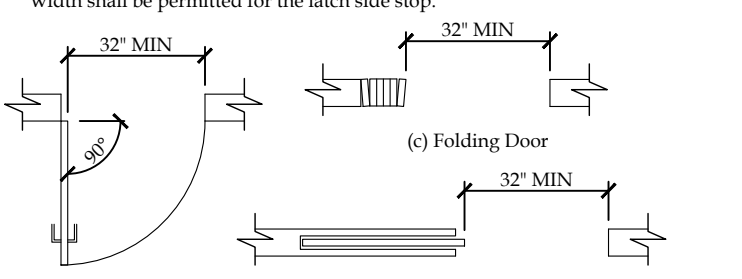
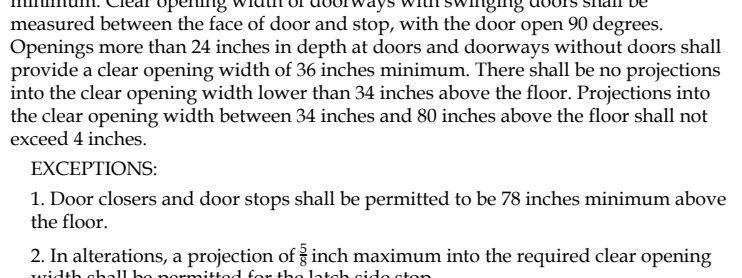
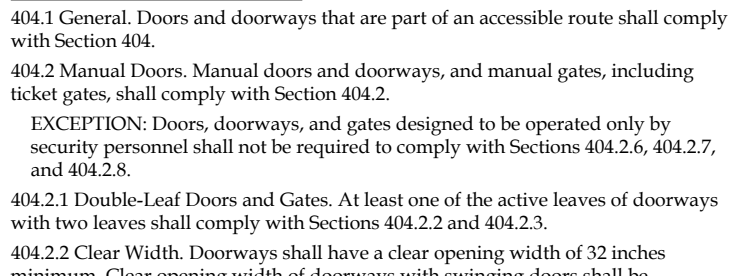
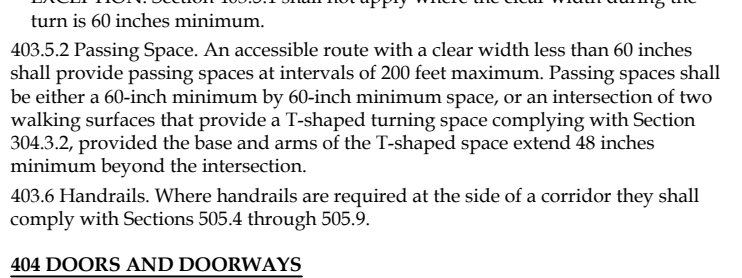
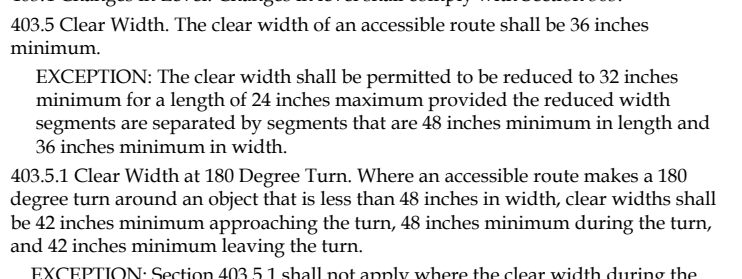
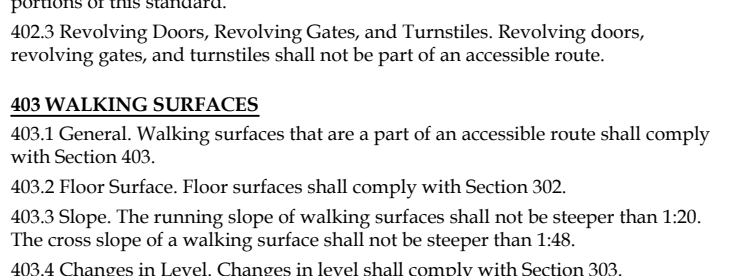
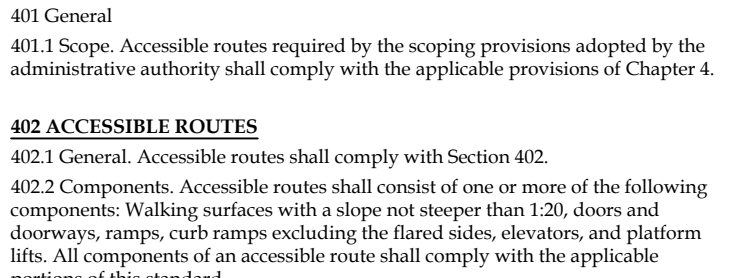
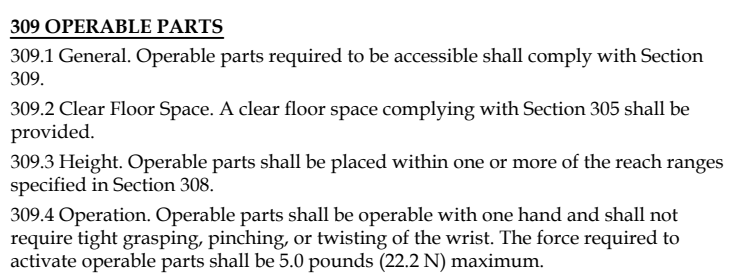
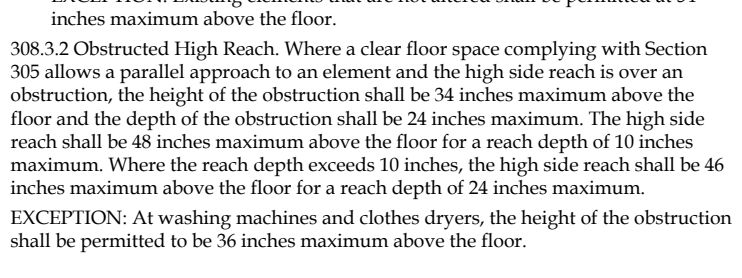
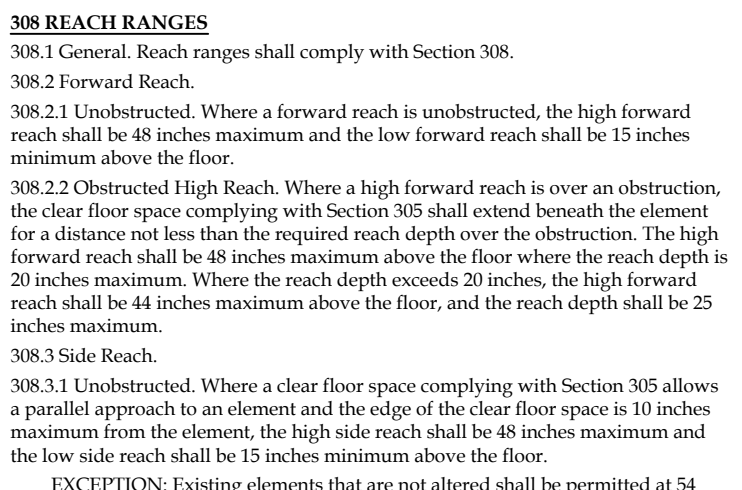
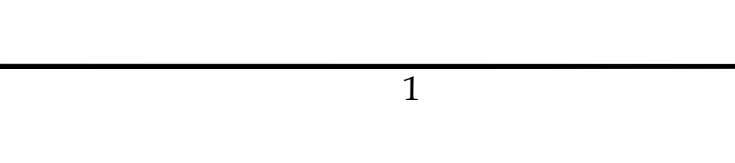


308 REACH RANGES
308.1 General. Reach ranges shall comply with Section 308.
308.2 Forward Reach. Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the floor.
308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space complying with Section 305 shall extend beyond the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum above the floor where the reach depth is 20 inches maximum. Where the reach depth exceeds 20 inches, the high forward reach shall be 1/2 inches maximum above the floor, and the reach depth shall be 25 inches maximum.
308.3 Side Reach.
308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10 inches minimum from the element, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the floor.
EXCEPTION: Existing elements that are not altered shall be permitted at 54 inches maximum above the floor.
308.3.2 Obstructed High Reach. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum above the floor and the depth of the obstruction shall be 24 inches maximum. The high side reach shall be 48 inches maximum above the floor for a reach depth of 10 inches maximum. Where the reach depth exceeds 10 inches, the high side reach shall be 46 inches maximum above the floor for a reach depth of 24 inches maximum.
EXCEPTION: At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches maximum above the floor.



309 OPERABLE PARTS
309.1 General. Operable parts required to be accessible shall comply with Section 309.
309.2 Clear Floor Space. A clear floor space complying with Section 305 shall be provided.
309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 308.
309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds (22.2 N) maximum.
401 General
401.1 Scope. Accessible routes required by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 4, Section 309.

402 ACCESSIBLE ROUTES
402.1 General. Accessible routes shall comply with Section 402.
402.2 Components. Accessible routes shall consist of one or more of the following components: Walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, curbs excluding the flared sides, elevators, and platform lifts complying with one of an accessible route shall comply with the applicable provisions of this standard.
402.3 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.
403 WALKING SURFACES
403.1 General. Walking surfaces that are a part of an accessible route shall comply with Section 403.
403.2 Floor Surface. Floor surfaces shall comply with Section 302.
403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of a walking surface shall not be steeper than 1:48.
403.4 Changes in Level. Changes in level shall comply with Section 303.
403.5 Clear Width. The clear width of an accessible route shall be 36 inches minimum.
EXCEPTION: The clear width shall be permitted to be reduced to 32 inches minimum for a length of 24 inches maximum. The reduced width segments are separated by segments that are 48 inches minimum in length and 36 inches minimum in width.
403.5.1 Clear Width at 180 Degree Turns. Where an accessible route makes a 180 degree turn around an object that is less than 48 inches in width, clear widths shall be 42 inches minimum approaching the turn, 48 inches minimum during the turn, and 42 inches minimum leaving the turn.
EXCEPTION: Section 403.5.1 shall not apply where the clear width during the turn is 60 inches minimum.
403.5.2 Passing Space. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a 60-inch minimum by 60-inch minimum space, or an intersection of two walking surfaces that provide a T-shaped turning space complying with Section 304.3.2, provided the base and arms of the T-shaped space extend 48 inches minimum beyond the intersection.
403.6 Handrails. Where handrails are required at the side of a corridor they shall comply with Sections 505.4 through 505.9.



608 Shower Compartments

608.1 General. Accessible shower compartments shall comply with Section 608.1.608.2 Size, clearance and seat. Shower compartments shall have sizes, clearances and seats complying with Section 608.2.608.2.1 Transfer-type Shower Compartments. Transfer-type shower compartments shall comply with Section 608.2.1.608.2.1.1 Size. Transfer-type shower compartments shall have a clear inside dimension of 36 inches in width and 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided.608.2.1.2 Clearance. A clearance of 48 inches minimum in length measured perpendicular from the control wall, and 36 inches minimum in depth shall be provided adjacent to the open face of the compartment.608.2.1.3 Seat. A folding or non-folding seat complying with Section 610 shall be provided on the wall opposite the control wall. EXCEPTION: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.608.2.2 Standard Roll-in-type Shower Compartments. Standard roll-in-type shower compartments shall comply with Section 608.2.2.608.2.2.1 Size. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches minimum in width and 30 inches minimum in depth, measured at the center point of opposing sides. An entry 60 inches minimum in width shall be provided.608.2.2.2 Clearance. A clearance of 60 inches minimum in length adjacent to the 60-inch width of the open face of the shower compartment, and 30 inches minimum in depth, shall be provided. EXCEPTION: A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the seat.608.2.2.3 Seat. A folding seat complying with Section 610 shall be provided on an end wall. EXCEPTIONS: 1. A seat is not required to be installed in a shower for a single occupant accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat. 2. A fixed seat shall be permitted where the seat does not overlap the minimum clear inside dimension required by Section 608.2.2.1.608.2.3 Alternate Roll-in-type Shower Compartments. Alternate roll-in-type shower compartments shall comply with Section 608.2.3.608.2.3.1 Size. Alternate roll-in shower compartments shall have a clear inside dimension of 60 inches minimum in width, and 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided at one end of the 60-inch width of the compartment. A seat wall, 24 inches minimum and 36 inches maximum in length, shall be provided on the entry side of the compartment.608.2.3.2 Seat. A folding seat complying with Section 610 shall be provided on the seat wall opposite the back wall. EXCEPTION: A seat is not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.608.3 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor. EXCEPTION: Grab bars are not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3.608.3.1 Transfer-Type Showers. Grab bars for transfer type showers shall comply with Section 608.3.1.608.3.1.1 Horizontal Grab Bars. Horizontal grab bars shall be provided across the control wall and on the back wall to a point 18 inches from the control wall.608.3.1.2 Vertical Grab Bar. A vertical grab bar 18 inches minimum in length shall be provided on the control end wall 3 inches minimum and 6 inches maximum above the horizontal grab bar, and 4 inches maximum inboard from the front edge of the shower.608.3.2 Standard Roll-in-Type Showers. In standard roll-in-type showers, a grab bar shall be provided on the back wall beginning at the edge of the seat. The grab bars shall not be provided above the seat. The back wall grab bar shall extend the length of the wall but shall not be required to exceed 48 inches in length. Where a side wall is provided opposite the seat within 72 inches of the seat wall, a grab bar shall be provided on the side wall opposite the seat. The side wall grab bar shall extend the length of the wall but shall not be required to exceed 48 inches in length. Grab bars shall be 6 inches maximum from the adjacent wall.608.3.3 Alternate Roll-in-Type Showers. In alternate roll-in-type showers, grab bars shall be provided on the back wall and the end wall adjacent to the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches maximum from the adjacent wall.608.4 Controls and Hand Showers. Controls and hand showers shall comply with Sections 608.4 and 509.4.608.4.1 Transfer-Type Showers. In transfer-type showers, the controls and hand shower shall be located: 1. On the control wall opposite the seat. 2. At a height of 38 inches minimum and 48 inches maximum above the shower floor, and 3. 15 inches maximum, from the centerline of the control wall toward the shower opening.608.4.2 Standard Roll-in Showers. In standard roll-in showers, the controls and hand shower shall be located on the back wall above the grab bar, 48 inches (1220 mm) maximum above the shower floor and 16 inches minimum and 27 inches maximum from the end wall behind the seat.608.4.3 Alternate Roll-in Showers. In alternate roll-in showers, the controls and hand shower shall be located 38 inches minimum and 48 inches maximum above the shower floor. In alternate roll-in showers with controls and hand showers located on the end wall adjacent to the seat, the controls and hand shower shall be 27 inches maximum from the seat wall. In alternate roll-in showers with the controls and hand shower located on the back wall opposite the seat, the controls and hand shower shall be located within 15 inches, left or right, of the centerline of the seat.608.5 Hand Showers. A hand shower with a hose 59 inches minimum in length, that can be used both as a fixed shower head and as a hand shower shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as not to obstruct the use of grab bars. EXCEPTION: In other than Accessible units and Type A units, a fixed shower head located 48 inches maximum above the shower floor shall be permitted in lieu of a hand shower.608.6 Thresholds. Thresholds in roll-in-type shower compartments shall be 1/2 inch maximum in height in accordance with Section 303. In transfer-type shower compartments, thresholds 1/4 inch maximum in height shall be beveled, rounded, or vertical. EXCEPTION: In existing facilities, in transfer-type shower compartments where provision of a threshold 1/2 inch in height would disturb the structural reinforcement of the floor slab, a threshold 2 inches maximum in height shall be permitted.608.7 Shower Enclosures. Shower compartment enclosures for shower compartments shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.608.8 Water Temperature. Showers shall deliver water that is 120°F (49°C) maximum.

609 Grab Bars 609.1 General. Grab bars in accessible toilet or bathing facilities shall comply with Section 609. 609.2 Cross Section. Grab bars shall have a cross section complying with Section 609.2.1 or 609.2.2. 609.2.1 Circular Cross Section. Grab bars with a circular cross section shall have an outside diameter of 1 1/2 inch minimum and 2 inches maximum. 609.2.2 Noncircular Cross Section. Grab bars with a noncircular cross section shall have a cross-section dimension of 2 inches maximum, and a perimeter dimension of 4 inches minimum and 4.8 inches maximum.

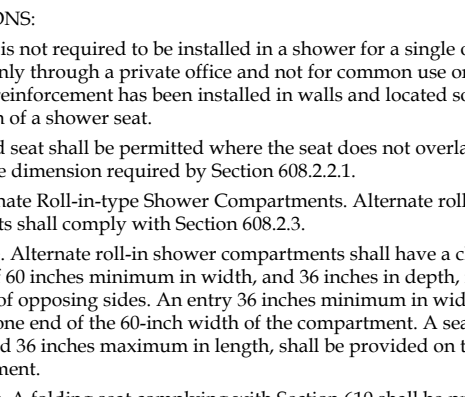


FIG. 609.2 SIZE OF GRAB BARS

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches. The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1 1/2 inches minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches minimum. EXCEPTIONS: 1. The space between the grab bars and shower controls, shower fittings, and other grab bars above the grab bar shall be permitted to be 1 1/2 inches minimum. 2. Recessed dispensers projecting from the wall 1/4 inch maximum measured from the face of the dispenser and complying with Section 604.7 shall be permitted within the 12-inch space above and the 1 1/2 inches space below and at the ends of the grab bar.

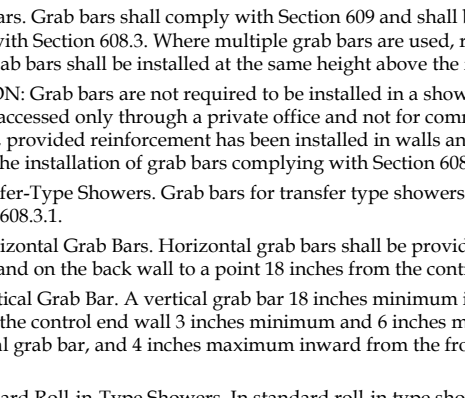


FIG. 609.3 SPACING OF GRAB BARS

609.4 Position of Grab Bars. 609.4.1 General. Grab bars shall be installed in a horizontal position, 33 inches minimum and 36 inches maximum above the floor measured to the top of the gripping surface or shall be installed as required by Items 1 through 3. 1. The lower grab bar on the back wall of a bathtub shall comply with Section 607.1.1.1 or 607.2.1.

1. Vertical grab bars shall comply with Sections 604.5.1, 607.4.1.2.2, 607.4.2.2, and 608.1.2. 2. Grab bars at water closets primarily for children's use shall comply with Section 609.4.2. 609.4.2 Position of Children's Grab Bars. At water closets primarily for children's use complying with Section 604.1.1, grab bars shall be installed in a horizontal position 18 inches minimum and 27 inches maximum above the floor measured to the top of the gripping surface. A vertical grab bar shall be mounted with the bottom of the bar located between 21 inches minimum and 30 inches maximum above the floor and with the centerline of the bar located between 34 inches minimum and 36 inches maximum from the rear wall. 609.5 Surface Hazards. Grab bars, and any wall or other surfaces adjacent to grab bars, shall be free of sharp or abrasive elements. Edges shall be rounded. 609.6 Fittings. Grab bars shall not rotate within their fittings. 609.7 Installation and Configuration. Grab bars shall be installed in any manner that provides a gripping surface at the locations specified in this standard and does not obstruct the clear floor space. Horizontal and vertical grab bars shall be permitted to be separate bars, a single piece bar, or combination thereof. 609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the grab bar, fastener mounting device, or supporting structure.

610 Seats 610.1 General. Seats in accessible bathtubs and shower compartments shall comply with Section 610. 610.2 Bathtub Seats. The height of bathtub seats shall be 17 inches minimum and 19 inches maximum above the bathroom floor, measured to the top of the seat. Removable in-tub seats shall be 15 inches minimum and 16 inches maximum in depth. Removable in-tub seats shall be capable of secure placement. Permanent seats shall be 15 inches minimum in depth and shall extend from the back wall 18 inches or beyond the outer edge of the bathtub. Permanent seats shall be positioned at the head end of the bathtub. 610.3 Shower Compartment Seats. The height of shower compartment seats shall be 17 inches minimum and 19 inches maximum above the bathroom floor, measured to the top of the seat. In transfer-type and alternate roll-in-type showers, the seat shall extend along the seat wall to a point within 3 inches of the compartment entry. In standard roll-in-type showers, the seat shall extend from the control wall to a point within 3 inches of the compartment entry. Seats shall comply with Section 610.3.1 or 610.3.2. 610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches maximum and the front edge 15 inches minimum and 16 inches maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches maximum from the back wall of a transfer-type shower and 1 1/2 inches maximum from the control wall of a roll-in-type shower. 610.3.2 Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches maximum and the front edge 15 inches minimum and 16 inches maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches maximum from the wall and the front edge shall be 14 inches minimum and 15 inches maximum from the wall. The end of the "L" shall be 22 inches minimum and 23 inches maximum from the main seat wall. 610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the seat, fastener mounting device, or supporting structure.

701 General 701.1 Scope. Communications elements and features required to be accessible by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 7. 702 Alarms 702.1 General. Accessible audible and visible alarms and notification appliances shall be installed in accordance with NFPA 72 listed in Section 405.2.2, be powered by a commercial light and power source, be permanently connected to the wiring of the premises electric system, and be permanently installed.

703 Signs 703.1 General. Accessible signs shall comply with Section 703. Tactics signs shall contain both raised characters and braille. Where signs with both visual and raised characters are required, either one sign with both visual and raised characters, or two separate signs, one with visual, and one with raised characters, shall be provided. 703.1.1 Designations. Interior and exterior signs identifying permanent rooms and spaces shall comply with Sections 703.1, 703.2, and 703.3. EXCEPTION: Exterior signs that are not located at the door to the space they serve shall not be required to comply with Section 703.3. 703.1.2 Directional and Informational Signs. Signs that provide direction to or information about interior spaces and facilities of the site shall comply with Section 703.2. 703.1.3 Pictograms. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with Section 703.5 and shall have text descriptors located directly below the pictogram field and complying with Sections 703.2 and 703.3. EXCEPTION: Pictograms that provide information about a room or space, such as "No Smoking," occupant logos, and the International Symbol of Accessibility, are not required to have text descriptors. 703.2 Visual Characters 703.2.1 General. Visual characters shall comply with the following: 1. Visual characters that also serve as raised characters shall comply with Section 703.3, or 2. Visual characters on VMS signage shall comply with Section 703.7, or 3. Visual characters not covered in items 1 and 2 shall comply with Section 703.2. EXCEPTION: The visual and raised requirements of item 1 shall be permitted to be provided by two separate signs that provide corresponding information provided one sign complies with Section 703.2 and the second sign complies with Section 703.3. 703.2.2 Case. Characters shall be uppercase, lowercase, or a combination of both. 703.2.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.2.4 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The uppercase letter "I" of the font shall have a minimum height complying with Table 703.2.4. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. EXCEPTION: In assembly seating where the maximum viewing distance is 100 feet or greater, the height of the uppercase "I" of fonts shall be permitted to be 1 inch for every 30 feet of viewing distance, provided the character height is 8 inches minimum. Viewing distance shall be measured as the horizontal distance between the character and where someone is expected to view the sign.

Table 703.2.4 VISUAL CHARACTER HEIGHT. Columns: Height above Floor to Baseline of Character, Horizontal Viewing Distance, Minimum Character Height. Rows: 40 inches to less than or equal to 70 inches, Greater than 70 inches to less than or equal to 120 inches, Greater than 120 inches.

703.2.5 Character Width. The uppercase letter "O" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "O" of the font shall be 35 percent minimum and 110 percent maximum of the height of the uppercase "I" of the font. 703.2.6 Stroke Width. The uppercase letter "I" shall be used to determine the allowable stroke width of all characters of a font. The stroke width shall be 10 percent minimum and 30 percent maximum of the height of the uppercase "I" of the font. 703.2.7 Character Spacing. Spacing shall be measured between the two closest points of adjacent characters within a message, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 50 percent maximum of the character height. 703.2.8 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be permitted to be 120 percent minimum and 170 percent maximum of the character height. 703.2.9 Height Above Floor. Visual characters shall be 40 inches minimum above the floor of the viewing position, measured to the baseline of the character. Heights shall comply with Table 703.3.4, based on the size of the characters on the sign. EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with Section 703.2.9. 703.3 Raised Characters 703.3.1 General. Raised characters shall comply with Section 703.3, and shall be duplicated in braille complying with Section 703.4. 703.3.2 Depth. Raised characters shall be raised 1/32 inch minimum above their background. 703.3.3 Case. Characters shall be uppercase. 703.3.4 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.3.5 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The height of the uppercase letter "I" of the font, measured vertically from the baseline of the character, shall be 5/8 inch minimum, and 2 inches maximum. EXCEPTION: Where separate raised and visual characters with the same information are provided, the height of the raised uppercase letter "I" shall be permitted to be 1/2 inch minimum. 703.3.6 Character Width. The uppercase letter "O" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "O" of the font shall be 35 percent minimum and 110 percent maximum of the height of the uppercase "I" of the font. 703.3.7 Stroke Width. Raised character stroke width shall comply with Section 703.3.7. The uppercase letter "I" of the font shall be used to determine the allowable stroke width of all characters of a font. 703.3.7.1 Maximum. The stroke width shall be 15 percent maximum of the height of the uppercase letter "I" measured at the top surface of the character, and 30 percent maximum of the height of the uppercase letter "I" measured at the base of the character. 703.3.7.2 Minimum. When characters are both visual and raised, the stroke width shall be 10 percent minimum of the height of the uppercase letter "I". 703.3.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Spacing between individual raised characters shall be 1/8 inch minimum measured at the top surface of the characters, 1/16 inch minimum measured at the base of the characters, and four times the raised character stroke width maximum. Characters shall be separated from raised borders and decorative elements 3/8 inch minimum.

703.3.9 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 130 percent minimum and 170 percent maximum of the raised character height. 703.3.10 Height above Floor. Raised characters shall be 48 inches minimum above the floor, measured to the baseline of the lowest raised character and 60 inches maximum above the floor, measured to the baseline of the highest raised character. EXCEPTION: Raised characters for elevator car controls shall not be required to comply with Section 703.3.10. 703.3.11 Location. Where a sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side. Where a sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters and braille shall be located at a clear floor area 18 inches minimum by 18 inches minimum, centered on the raised characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. EXCEPTION: Signs containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices. 703.3.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4. 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

Table 703.4.3 BRAILLE MEASUREMENT. Columns: Measurement Range, Minimum in inches, Maximum in inches. Rows: Dot base diameter, Distance between two dots in the same cell, Distance between corresponding dots in adjacent cells, Dot height, Distance between corresponding dots from one cell directly below.

703.4.4 Position. Braille shall be below the corresponding text. If text is multilined, braille shall be placed below entire text. Braille shall be separated 3/8 inch minimum from any other raised characters and 1/8 inch minimum from raised borders and decorative elements. Braille provided on elevator car controls shall be separated 3/16 inch minimum either directly below or adjacent to the corresponding raised characters or symbols. 703.4.5 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5 Pictograms 703.5.1 General. Pictograms shall comply with Section 700.5. 703.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

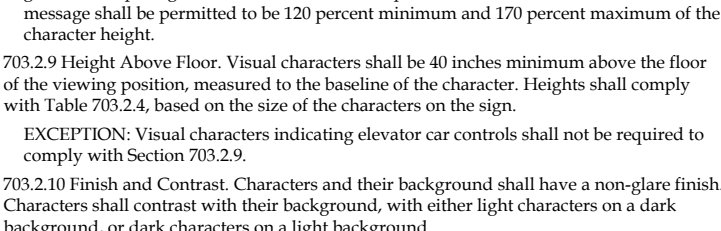


FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

FIG. 703.5 PICTOGRAM FIELD

703.9 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 130 percent minimum and 170 percent maximum of the raised character height. 703.10 Height above Floor. Raised characters shall be 48 inches minimum above the floor, measured to the baseline of the lowest raised character and 60 inches maximum above the floor, measured to the baseline of the highest raised character. EXCEPTION: Raised characters for elevator car controls shall not be required to comply with Section 703.3.10.

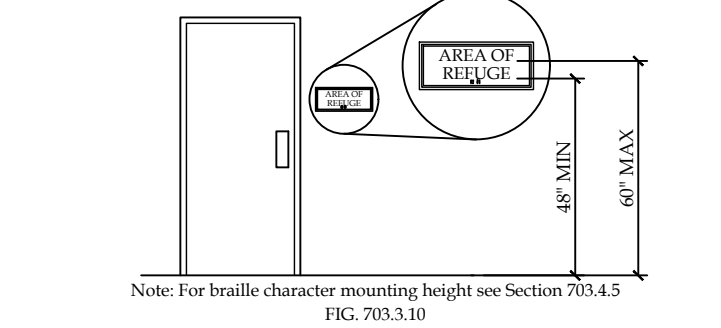


FIG. 703.3.10 HEIGHT OF RAISED CHARACTERS ABOVE FLOOR

703.3.11 Location. Where a sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side. Where a sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters and braille shall be located at a clear floor area 18 inches minimum by 18 inches minimum, centered on the raised characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. EXCEPTION: Signs containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices. 703.3.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4. 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

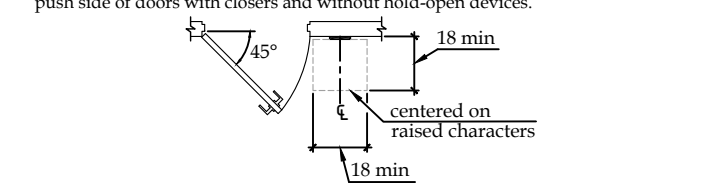


FIG. 703.3.11 LOCATION OF SIGNS AT DOORS

703.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4. 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

Table 703.4.3 BRAILLE MEASUREMENT. Columns: Measurement Range, Minimum in inches, Maximum in inches. Rows: Dot base diameter, Distance between two dots in the same cell, Distance between corresponding dots in adjacent cells, Dot height, Distance between corresponding dots from one cell directly below.

703.4.4 Position. Braille shall be below the corresponding text. If text is multilined, braille shall be placed below entire text. Braille shall be separated 3/8 inch minimum from any other raised characters and 1/8 inch minimum from raised borders and decorative elements. Braille provided on elevator car controls shall be separated 3/16 inch minimum either directly below or adjacent to the corresponding raised characters or symbols. 703.4.5 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5 Pictograms 703.5.1 General. Pictograms shall comply with Section 700.5. 703.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

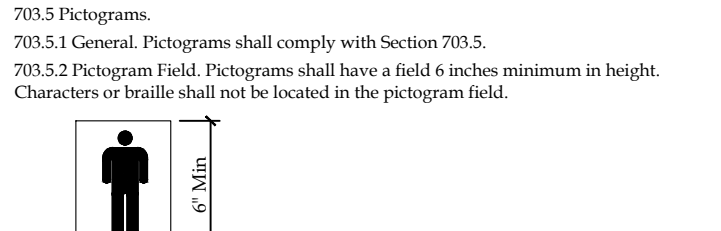


FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.5.3 Finish and Contrast. Pictograms and their fields shall have a non-glare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.5.4 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells. EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.5 Pictograms 703.5.5.1 General. Pictograms shall comply with Section 700.5. 703.5.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height. Characters or braille shall be located in the pictogram field. FIG. 703.5 PICTOGRAM FIELD

703.9 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 130 percent minimum and 170 percent maximum of the raised character height. 703.10 Height above Floor. Raised characters shall be 48 inches minimum above the floor, measured to the baseline of the lowest raised character and 60 inches maximum above the floor, measured to the baseline of the highest raised character. EXCEPTION: Raised characters for elevator car controls shall not be required to comply with Section 703.3.10. 703.3.11 Location. Where a sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side. Where a sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters and braille shall be located at a clear floor area 18 inches minimum by 18 inches minimum, centered on the raised characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. EXCEPTION: Signs containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices. 703.3.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4. 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

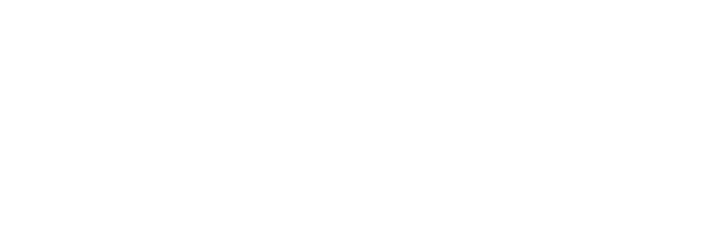


FIG. 703.3.11 LOCATION OF SIGNS AT DOORS

703.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters on a light background. EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4. 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

GENERAL NOTES

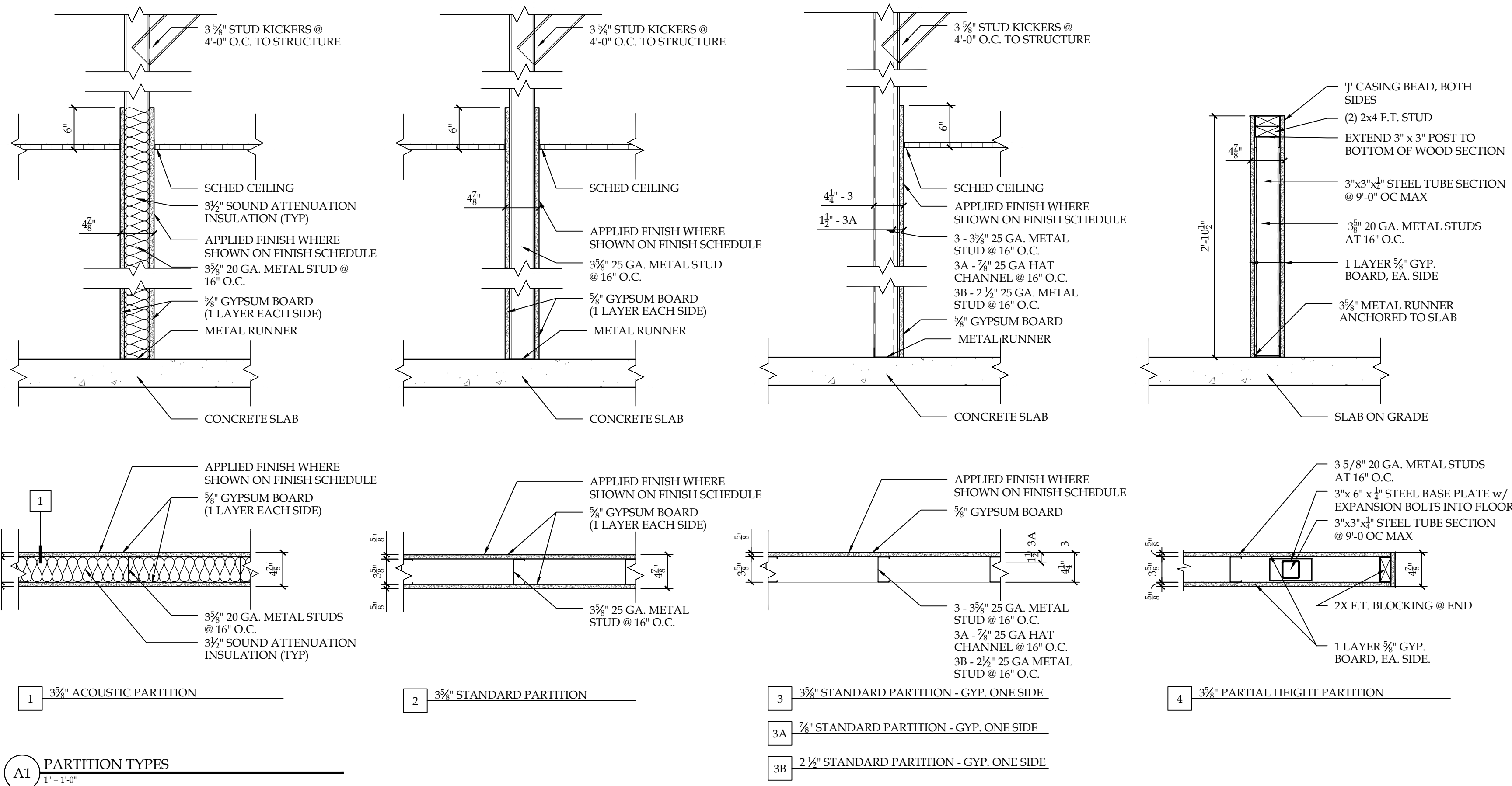
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE IBC 2015 BUILDING CODES, OSHA STANDARDS AND FIRE SAFETY CODE / RELEVANT SECTIONS OF THE N.F.P.A. & ANY LOCAL CODES BEING MORE RESTRICTIVE THAN THE MINIMUMS LISTED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES AND CRAFTSMANSHIP ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES OCCUR BETWEEN DRAWINGS AND EXISTING CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE PROJECT SITE IN ORDER TO DETERMINE THE EXTENT OF THE REQUIRED WORK. THIS INSPECTION SHALL BE COMPLETED PRIOR TO THE SUBMISSION OF ANY PROPOSAL TO COMPLETE THIS PROJECT. INSPECTION TIMES SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL INFORMATION ON THE DRAWINGS.
- ALL DIMENSIONS SHOWN FOR EXISTING STRUCTURES ARE BASED ON RECORD DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR IS ADVISED THAT SAID DRAWINGS MAY NOT ACCURATELY REFLECT AS BUILT CONDITIONS. ACCURATE FIELD MEASUREMENTS SHOULD BE MADE PRIOR TO ORDERING ANY PREFABRICATED MATERIALS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND SHALL BE REFLECTED ON THE CONTRACTORS SHOP DRAWINGS.
- THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR THIS PROJECT WILL BE COMPLETED TO THE SCOPE OF THE PROJECT IN COMPLIANCE WITH THE OWNER AND DESIGN TEAM. ANY CHANGES TO THESE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS WILL ONLY BE DONE BY A CHANGE ORDER.
- CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS AS TO THE AMOUNT AND / OR SCOPE OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS, AND CONDITIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK.
- CONTRACTORS SHALL RECORD ALL DEVIATIONS FROM THE DESIGN DOCUMENTS IN THE DRAWINGS, AND PROVIDE A COPY TO THE ARCHITECT UPON THE COMPLETION OF WORK.
- PROVIDE APPROVED SEPARATION BY MEANS OF COATINGS, GASKETS, OR OTHER EFFECTIVE MEANS TO PREVENT GALVANIC CORROSION BETWEEN ALL DISSIMILAR METALS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS OF THIS PROJECT TO ADJACENT PROPERTY, UTILITIES, PAVEMENT, LANDSCAPING, STRUCTURES OR IMPROVEMENTS OF ANY KIND. THE GENERAL CONTRACTOR SHALL REPAIR ALL SUCH DAMAGE DUE TO THE CONDITION THEY WERE IN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES OR BETTER.
- WHERE IT IS NECESSARY TO INSURE STABILITY, CONTRACTOR IS TO PROVIDE ADDITIONAL ANCHORING AND/OR BLOCKING IN STUD PARTITIONS OR BRACE PARTITIONS ABOVE CEILINGS.
- ALL OWNER SUPPLIED ITEMS WILL BE COORDINATED WITHIN THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULES PRIOR TO CONSTRUCTION COMMENCEMENT.
- THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, AND SITE AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.
- ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE AND THE LIFE SAFETY CODE (NFPA-101). HOWEVER, WHERE THE DRAWINGS AND / OR SPECIFICATIONS ARE MORE STRINGENT THEY SHALL GOVERN. THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ANY CODE DISCREPANCY PRIOR TO COMMENCEMENT OF WORK.
- ALL DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR MASONRY, CENTERLINE OF COLUMNS AND BEAMS, AND FINISH TO FINISH, UNLESS OTHERWISE NOTED.
- THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING WITH SAID WORK.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SOME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL VERIFY AND ESTABLISH THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WITHIN THE WORK AREA, AND SHALL COORDINATE WITH THE OWNER AND THE UTILITY COMPANIES PRIOR TO THE START OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING REQUIRED TO ADEQUATELY PROTECT PERSONAL AND ADJACENT PROPERTY AND TO INSURE SAFETY OF THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL CEILING HEIGHTS AS SHOWN ON DETAILS OR PLANS OR NOTES ARE FROM TOP OF CONCRETE DECK TO FINISH CEILING. USE OF THE TERM ABOVE FINISH FLOOR (A.F.F.) MEANS MEASURED FROM THE TOP OF CONCRETE DECK. CONTRACTOR SHALL ALLOW FOR AND COORDINATE WORK WITH FLOOR FINISH MATERIAL AND INSTALLATION METHOD.
- PROVIDE INDEPENDENT SUSPENSION FOR ALL LIGHT FIXTURES. SUSPENSION FOR CEILING AND LIGHT FIXTURES SHALL BE INDEPENDENT OF SUSPENSION FOR DUCT WORK.
- ALL EQUIPMENT AND MATERIALS INSTALLED IN THIS JOB SHALL BE NEW AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED.
- ALL RUBBISH AND DEBRIS RESULTING FROM DEMOLITION AND/OR NEW WORK IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER. MAINTAIN BUILDING AREAS CLEAN AND FREE OF ACCUMULATED DIRT AND DEBRIS. COORDINATE CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS AS PER SECTION 01 81 13 SUSTAINABLE DESIGN REQUIREMENT OF THE SPECIFICATIONS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE WORK WITH EQUIPMENT INSTALLATIONS AND OWNER'S REQUIREMENTS.
- INTERIOR AND/OR EXTERIOR THRESHOLDS SHALL BE A MAXIMUM 1/4" ABOVE THE ADJACENT FLOOR.
- ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL EFFORT OR KNOWLEDGE.
- LOCATE ALL CONVENIENCE OUTLETS A MINIMUM OF 18" FROM THE FINISHED FLOOR.
- NEITHER THE OWNER NOR THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE POSSIBILITY THAT UTILITIES OTHER THAN THOSE SHOWN EXIST.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF HIS WORK AND SCHEDULE WITH WORK BEING PERFORMED BY OTHERS AND THE USER/OWNER OF THE BUILDING.
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL AND PLUMBING HOOK-UPS AND/OR CONNECTIONS FOR ALL OWNER FURNISHED EQUIPMENT.
- ALL HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE SHALL BE ADA COMPLIANT HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL AND ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED, CAULKED, OR WEATHERSTRIPPED AND MADE WATER TIGHT UNLESS NOTED OTHERWISE.
- ALL MANUALLY OPERATED SWITCHES AND CONTROLS ARE TO BE MOUNTED BETWEEN 36" AND 48" A.F.F., UNLESS NOTED.
- CONTRACTOR SHALL INSTALL CONTROL JOINTS ON ALL INTERIOR GYP. BOARD PARTITIONS AT 30'-0" MAX. IN EITHER DIRECTION AND AT ALL DOOR JOINTS (TWO PER OPENING).
- COMPLY WITH CHAPTER 24 IBC FOR GLASS AND GLAZING, SPECIFICALLY SECTIONS 2403 GENERAL REQUIREMENTS, 2404 LOADS, AND 2406 SAFETY GLAZING.

SOUND INSULATION NOTES

- ASSEMBLIES SHOULD BE AIRTIGHT. HAIRLINE CRACKS AND HOLES ARE NOT ALLOWED.
- RECESSED WALL FIXTURES SUCH AS CABINETS, OUTLETS, AND OTHER ITEMS WHICH PENETRATE THE GYPSUM BOARD SURFACE SHOULD NOT BE LOCATED BACK TO BACK IN THE SAME STUD CAVITY.
- ANY OPENINGS CUT FOR ANY FIXTURES SHALL BE CAREFULLY CUT TO SIZE, PROPERLY FASTENED, INSULATED PER WALL ASSEMBLY AND PROPERLY CAULKED.
- INSTALL BOX SEAL (BY STC ARCHITECTURAL PRODUCTS) AT ALL ELECTRICAL OUTLETS NOT LOCATED ON AN EXTERIOR WALL.
- THE ENTIRE PERIMETER OF A SOUND INSULATING ASSEMBLY MUST BE MADE AIRTIGHT TO PREVENT SOUND FROM "FLANKING".
- AN ACOUSTICAL SEALANT SHOULD BE USED TO SEAL BETWEEN THE SOUND INSULATING ASSEMBLY AND ALL DISSIMILAR ASSEMBLIES AND BETWEEN PERIMETER RELIEF IS REQUIRED. TAPING AND CAULKING OF GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- ASTM RECOMMENDED PRACTICES E-497 SHOULD BE FOLLOWED FOR GOOD SOUND CONTROL. ALSO CONSULT THE MANUFACTURER OF THE GYPSUM BOARD FOR ANY SPECIAL RECOMMENDATIONS RELATING TO THEIR SYSTEM.

GENERAL WALL NOTES

- SEE SPECIFICATIONS FOR APPLICATIONS OF GYPSUM PRODUCTS, UNLESS NOTED ON DRAWINGS. REFER TO SPECIFICATIONS FOR SPECIAL APPLICATIONS, THICKNESS, AND TYPES (I.E. MOLD & MOISTURE RESISTANCE, TILE BACKER BOARDS, ETC.)
- REFER TO THE LATEST EDITION OF UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS ON UL RATED ASSEMBLIES AS NOTED IN THE WALL SCHEDULE.
- USE ONLY PARTITIONS IDENTIFIED ON THE PLANS.
- STC = SOUND TRANSMISSION CLASS - REFER TO THE WALL SCHEDULE IN PLAN FOR WALLS THAT ARE SOUND RATED.
- PROVIDE A MINIMUM RATING OF STC 45.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- WALL INFILL LOCATIONS TO FLUSH OUT WITH EXISTING. VERIFY EXISTING WALL THICKNESS IN FIELD.



A1 PARTITION TYPES
1" = 1'-0"

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JOB CAPT. J. Somers INTERIORS _____

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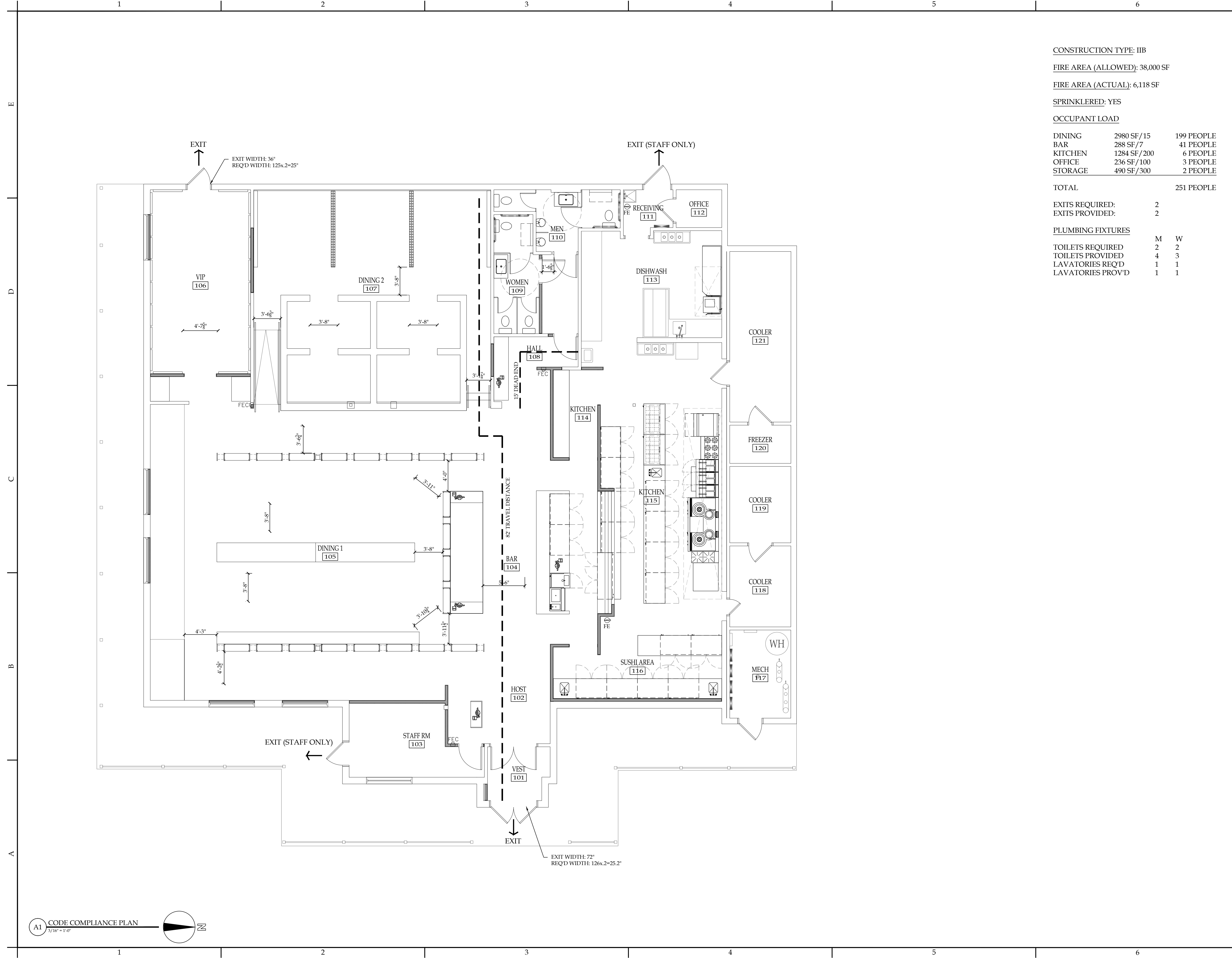
TITLE:
**PARTITION TYPES,
DETAILS &
GENERAL NOTES**

SILVESTRI ARCHITECTS · PC

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SA JOB #: **15108.03** DATE: **04-03-20**

DRAWING #: **A-003**



CONSTRUCTION TYPE: IIB

FIRE AREA (ALLOWED): 38,000 SF

FIRE AREA (ACTUAL): 6,118 SF

SPRINKLERED: YES

OCCUPANT LOAD

DINING	2980 SF/15	199 PEOPLE
BAR	288 SF/7	41 PEOPLE
KITCHEN	1284 SF/200	6 PEOPLE
OFFICE	236 SF/100	3 PEOPLE
STORAGE	490 SF/300	2 PEOPLE
TOTAL		251 PEOPLE

EXITS REQUIRED: 2
EXITS PROVIDED: 2

PLUMBING FIXTURES

	M	W
TOILETS REQUIRED	2	2
TOILETS PROVIDED	4	3
LAVATORIES REQ'D	1	1
LAVATORIES PROV'D	1	1

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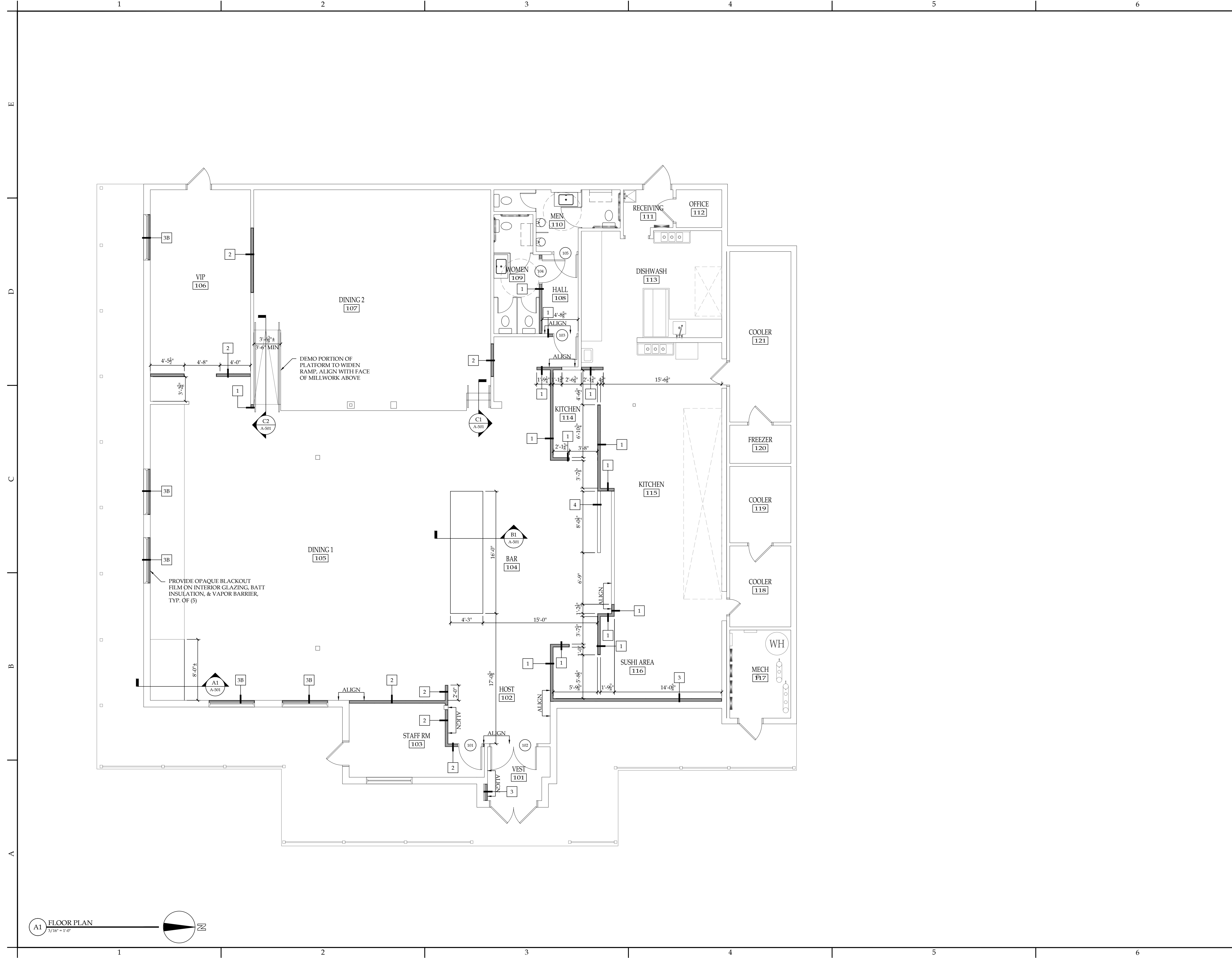
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CODE COMPLIANCE PLAN

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TITLE:

FLOOR PLAN



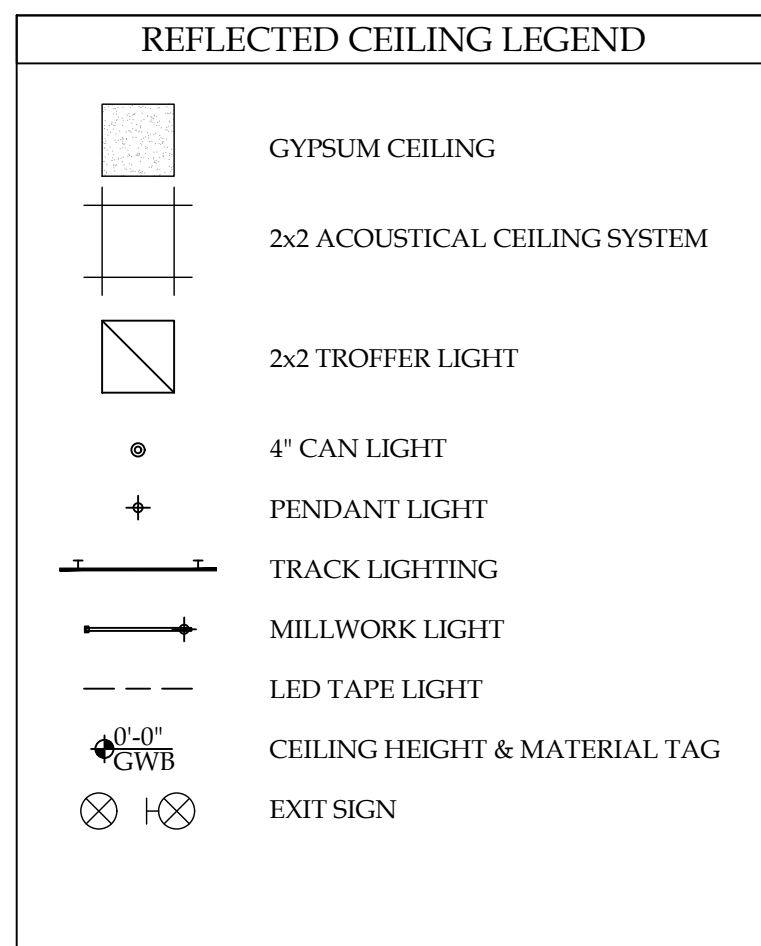
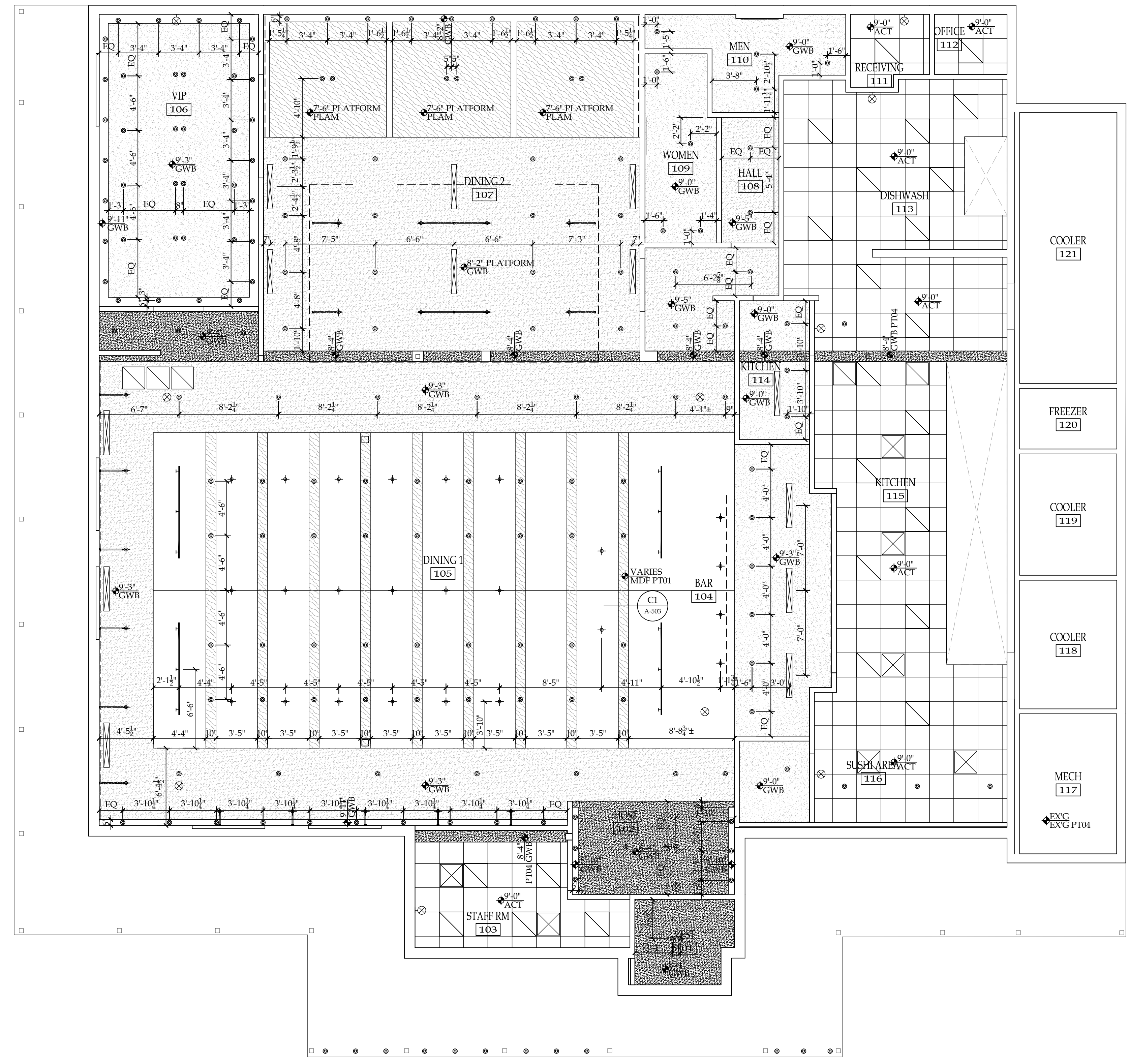
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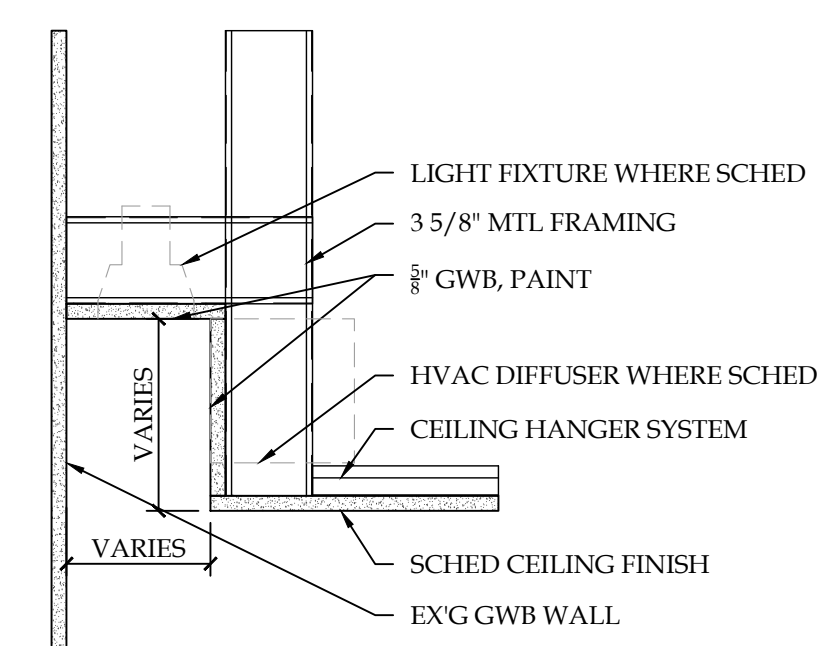
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A1 FLOOR PLAN
 3/16" = 1'-0"



REFLECTED CEILING NOTES

PAINT ALL GYPSUM CEILINGS PT01 EXCEPT WHERE NOTED OTHERWISE.



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REFLECTED CEILING PLAN

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A1 REFLECTED CEILING PLAN
3/16" = 1'-0"

A6 TYPICAL COVE DETAIL
1/12" = 1'-0"

1

2

3

4

5

6

E

D

C

B

A

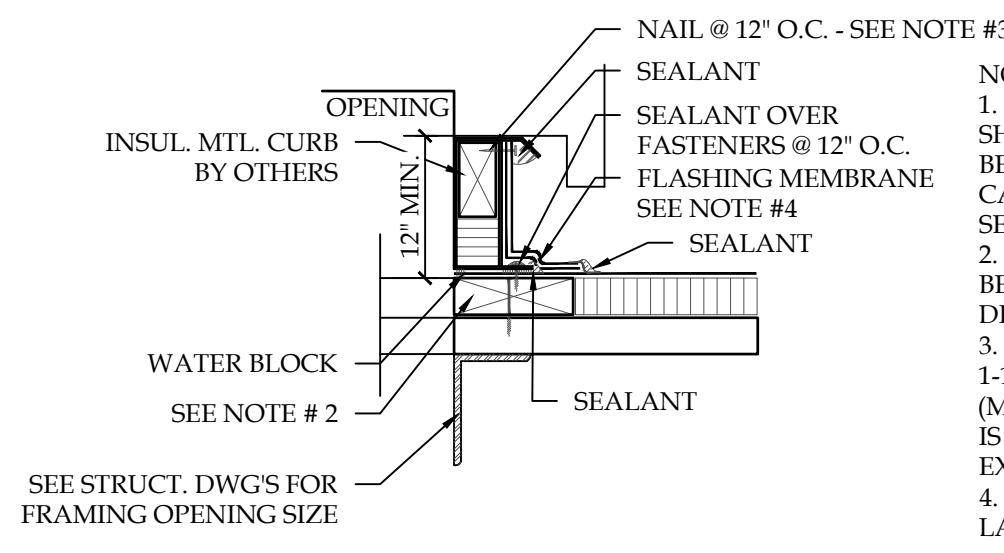
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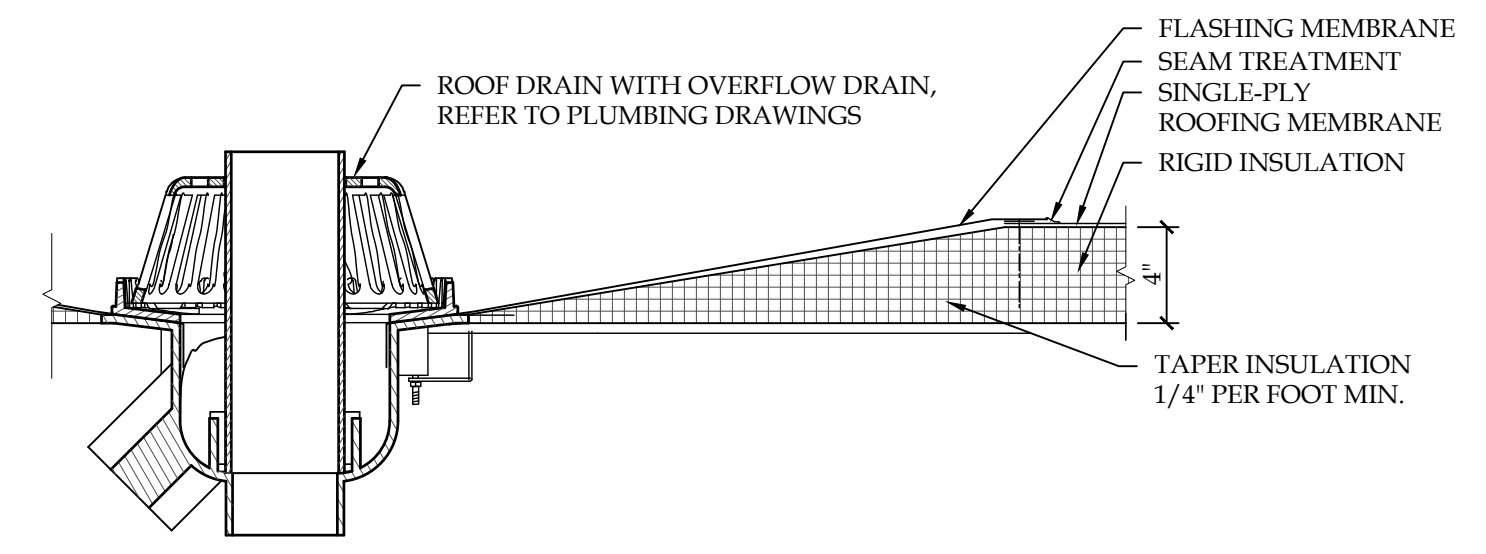
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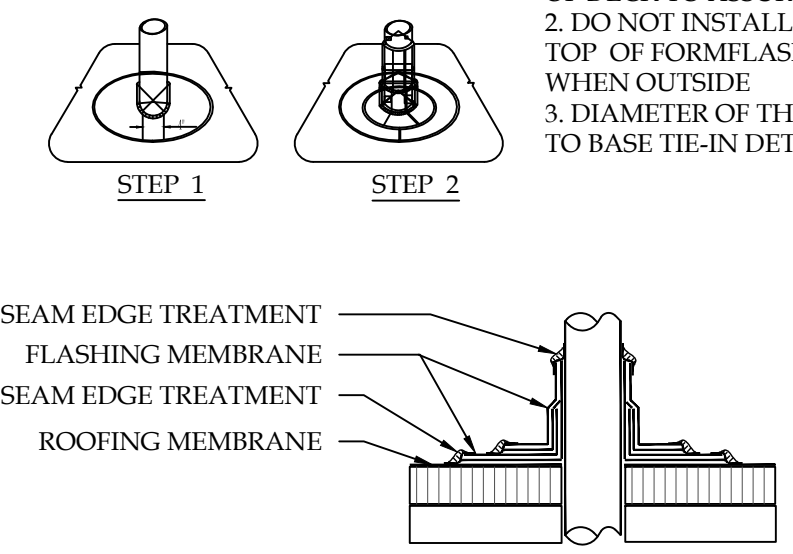


E1 TYPICAL CURB DETAIL
SCALE: 1-1/2"=1'-0"

NOTES:
 1. IF ANCHORS MUST PENETRATE SHEET METAL, EPDM WASHERS MUST BE USED AND SUBSEQUENTLY CAULKED WITH GENERAL PURPOSE SEALANT.
 2. WOOD NAILER MUST EXTEND BEYOND METAL FLANGE IN ALL DIRECTIONS.
 3. HOT DIPPED GALVANIZED NAILS 1-1/4" LONG WITH 3/8" DIA. HEAD (MIN.). NAILING OFF THE MEMBRANE IS NOT REQUIRED IF MEMBRANE EXTENDS OVER THE TOP OF THE CURB, 4.3" (MIN.) FORMFLASH OR 6" EPDM LAP SPLICE.

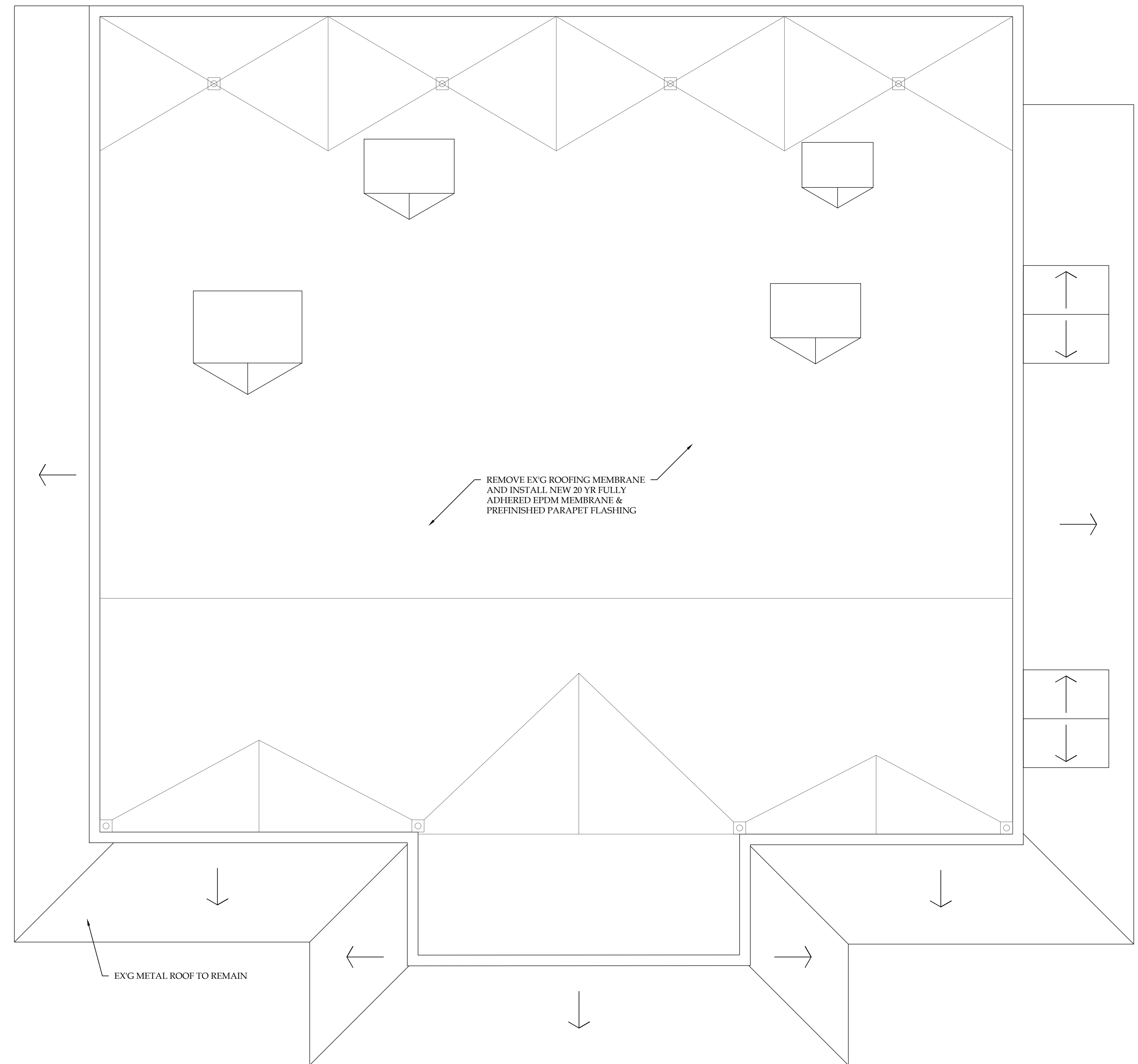


E2 TYP. ROOF DRAIN DETAIL
SCALE: 1-1/2"=1'-0"



E4 TYP. VENT DETAIL
SCALE: 1-1/2"=1'-0"

NOTES:
 1. PIPE MUST BE ANCHORED TO BOTTOM SIDE OF DECK TO ASSURE STABILITY.
 2. DO NOT INSTALL CLAMPING RING AROUND TOP OF FORMFLASH. WOOD NAILER REQUIRED WHEN OUTSIDE.
 3. DIAMETER OF THE PIPE EXCEEDS 18" - REFER TO BASE TIE-IN DETAILS.



A1 ROOF PLAN
3/16"=1'-0"

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 PROJ. ARCH. G.Tomsic DRAFTER _____
 JOB CAPT. J.Somers INTERIORS _____

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TITLE:
ROOF PLAN

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EXTERIOR ELEVATIONS



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SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: **A-201**

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Wind Buffalo Renovation
 7566 Transit Rd.
 Amherst, NY

ISSUE:
 SA PROJECT TEAM: PRINCIPAL P.Silvestri
 PROJ. ARCH. G.Tomsic DRAFTER _____
 JOB CAPT. J.Somers INTERIORS _____

SEAL:

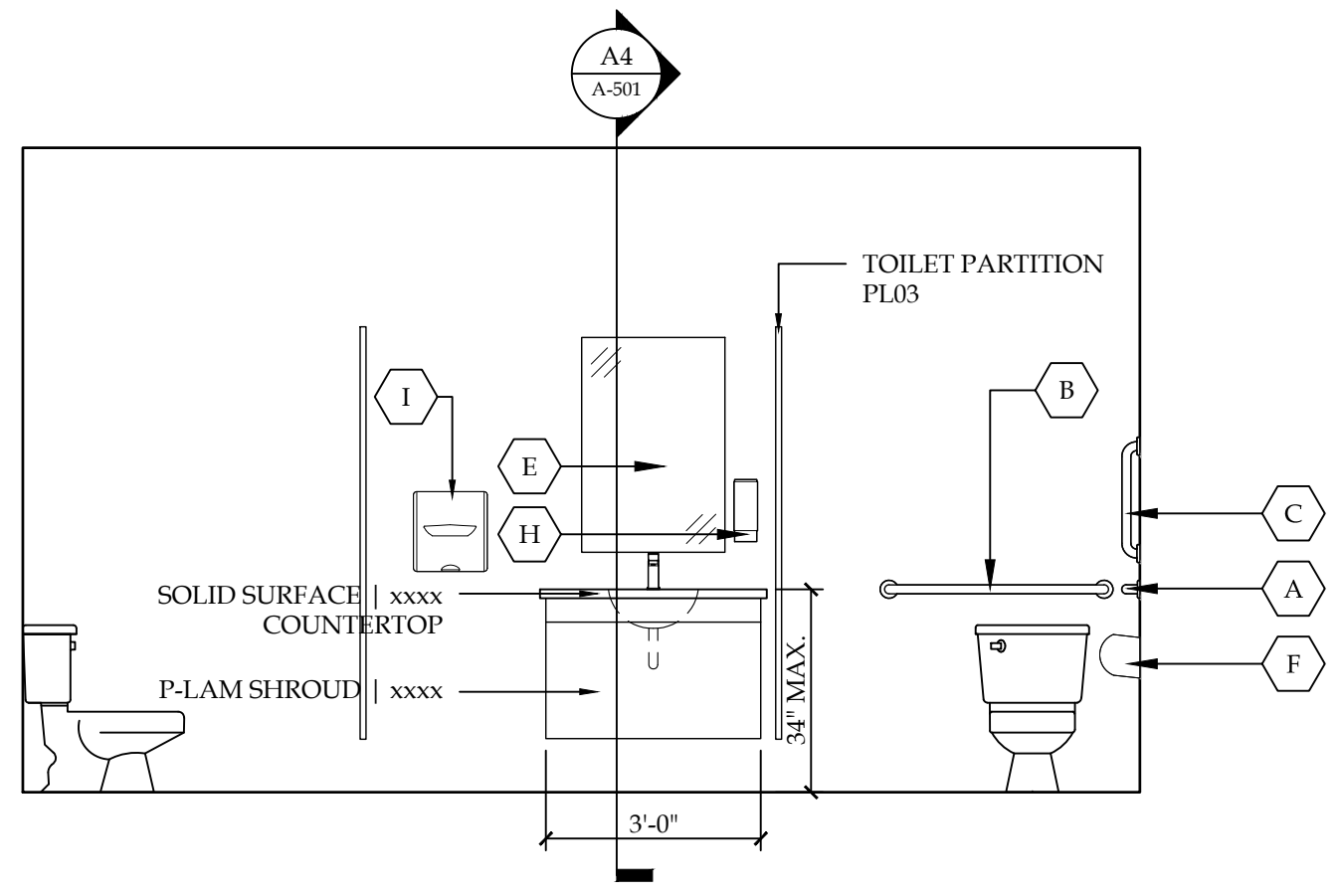
TITLE:
ENLARGED PLANS & ELEVATIONS



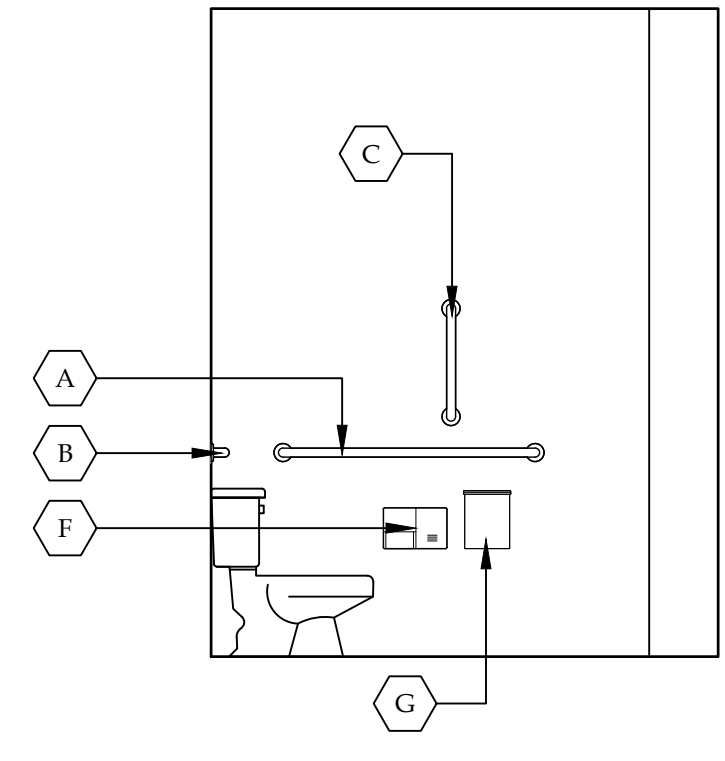
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 AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 15108.03 DATE: 04-03-20

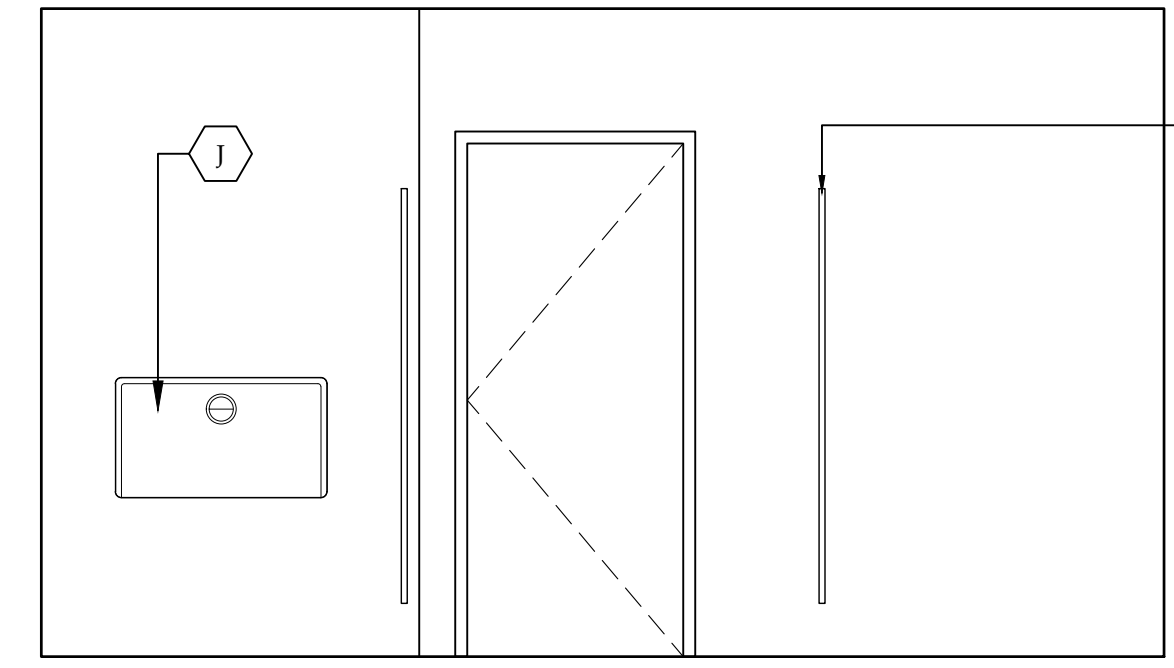
DRAWING #: **A-401**



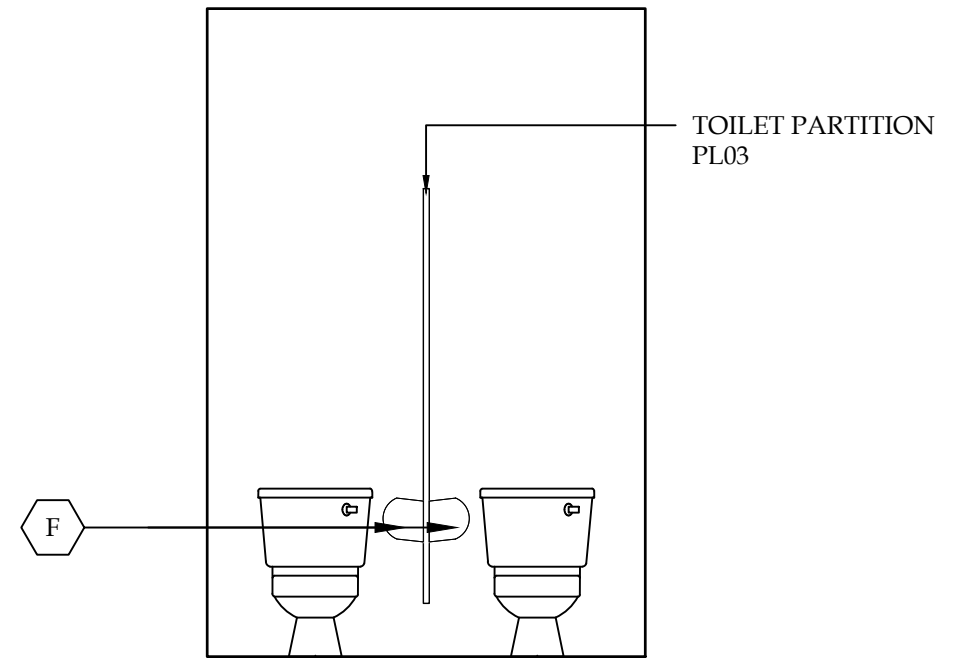
D1 TOILET ROOM ELEVATION
 3/8" = 1'-0"



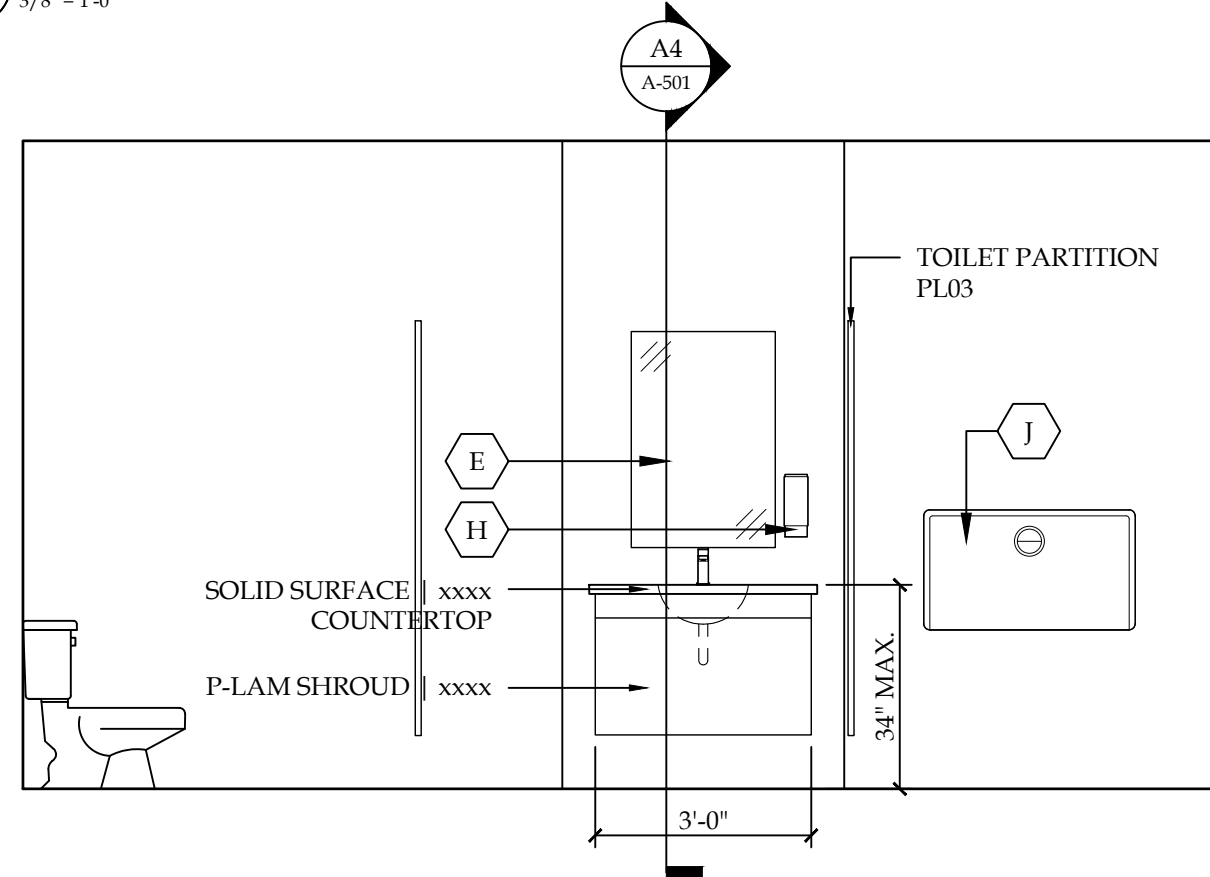
D3 TOILET ROOM ELEVATION
 3/8" = 1'-0"



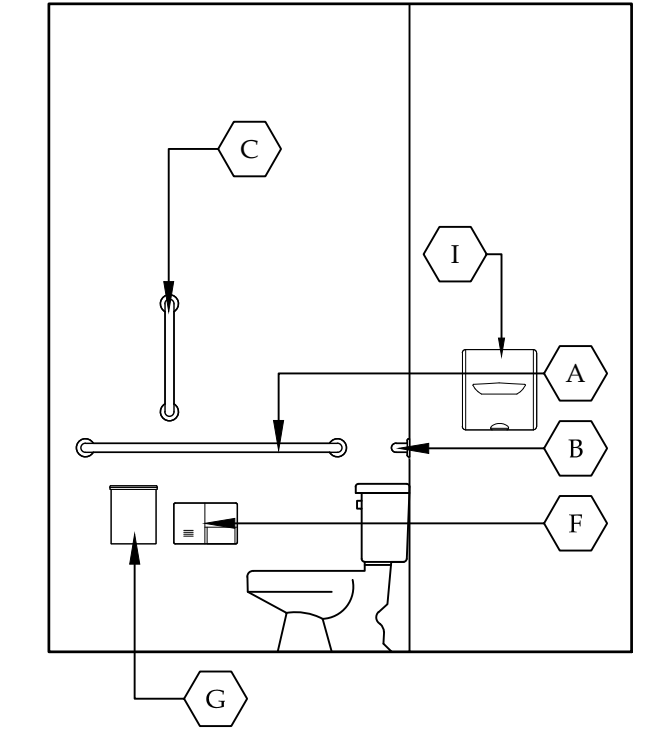
D4 TOILET ROOM ELEVATION
 3/8" = 1'-0"



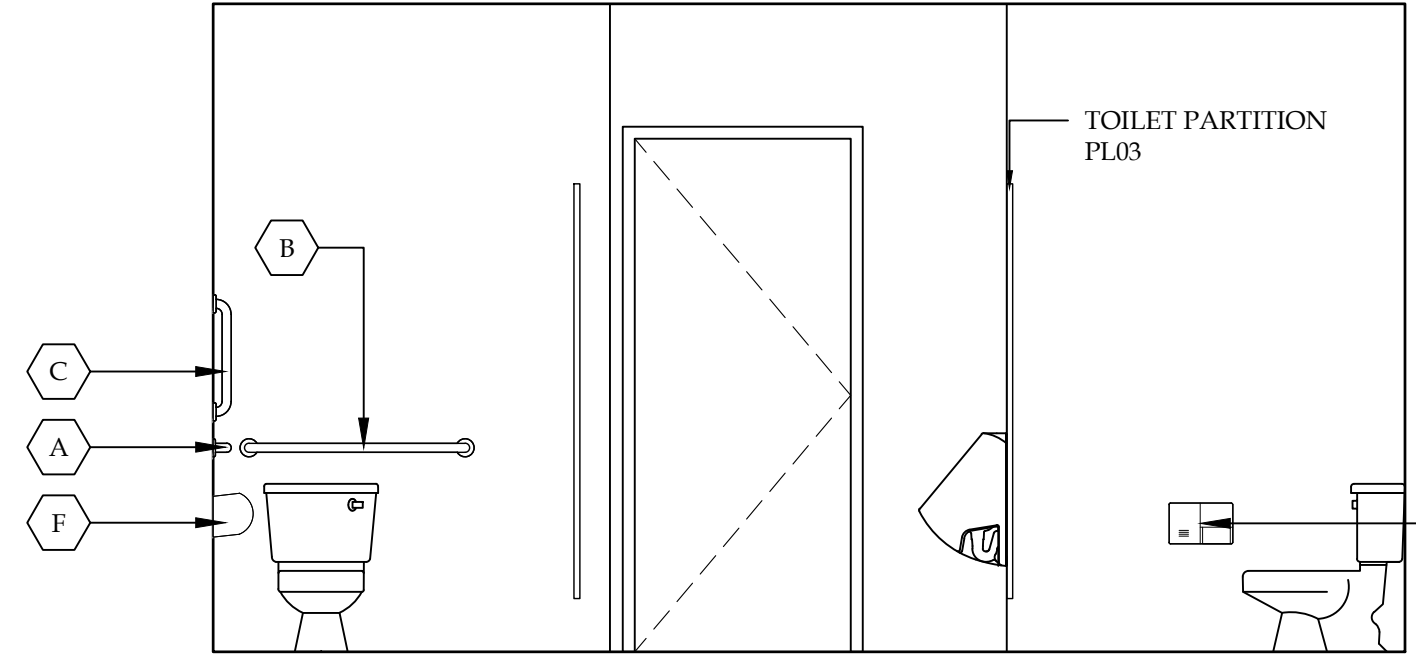
D5 TOILET ROOM ELEVATION
 3/8" = 1'-0"



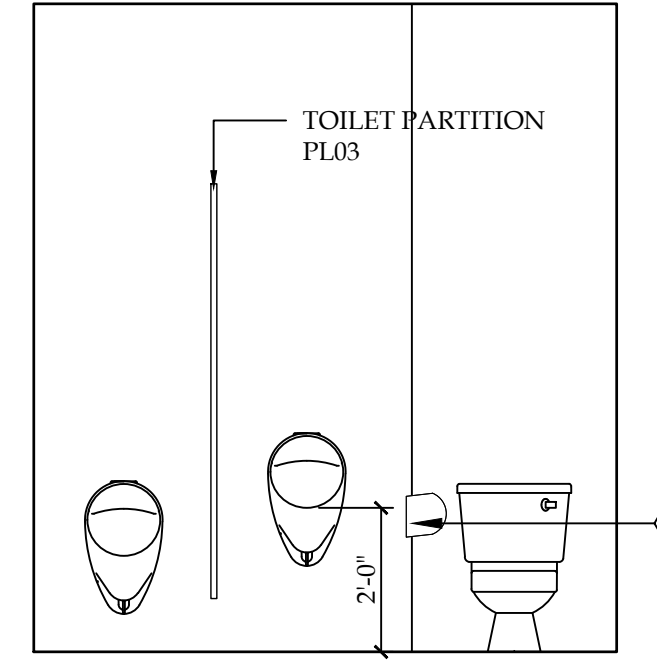
C1 TOILET ROOM ELEVATION
 3/8" = 1'-0"



C3 TOILET ROOM ELEVATION
 3/8" = 1'-0"

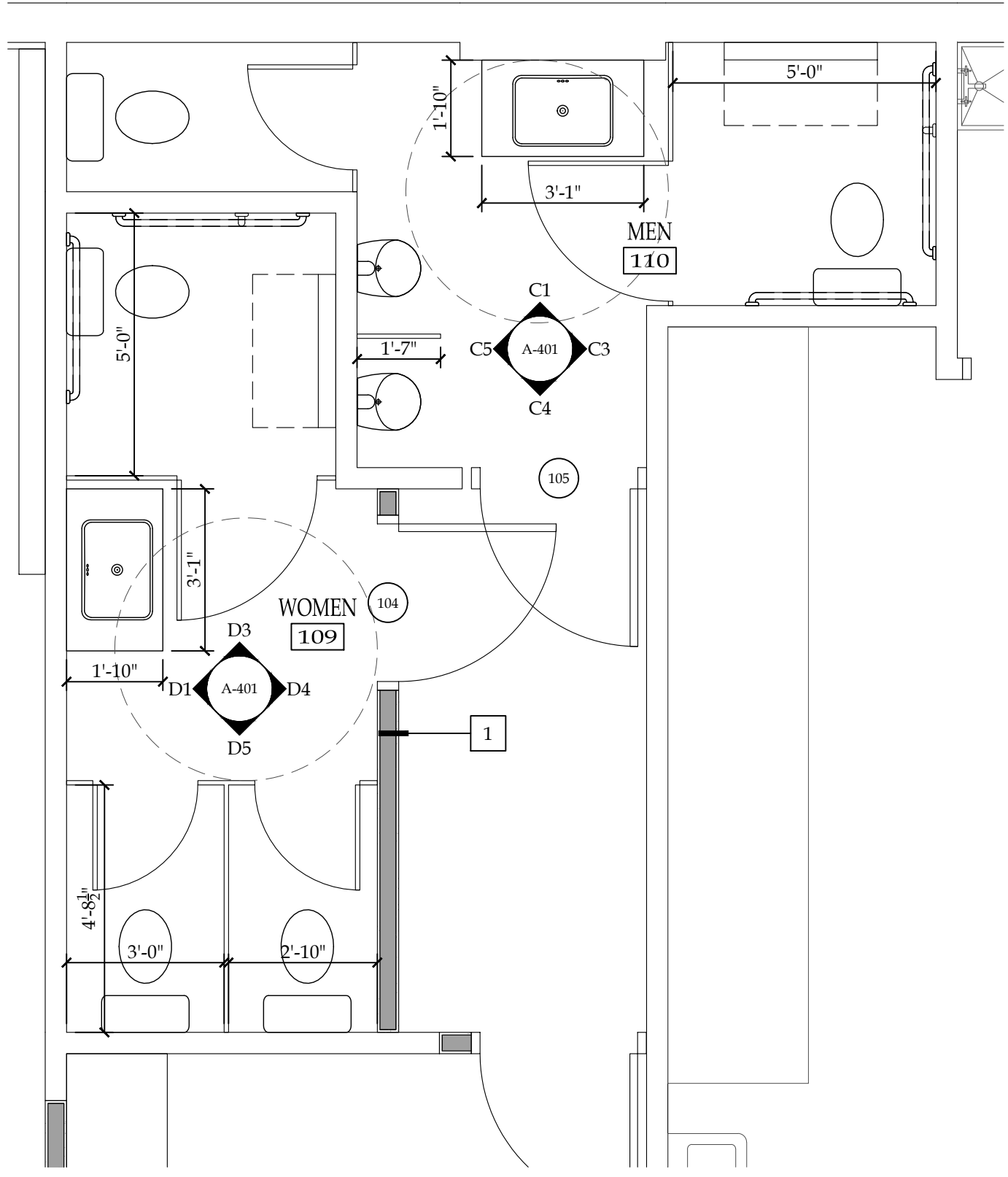


C4 TOILET ROOM ELEVATION
 3/8" = 1'-0"

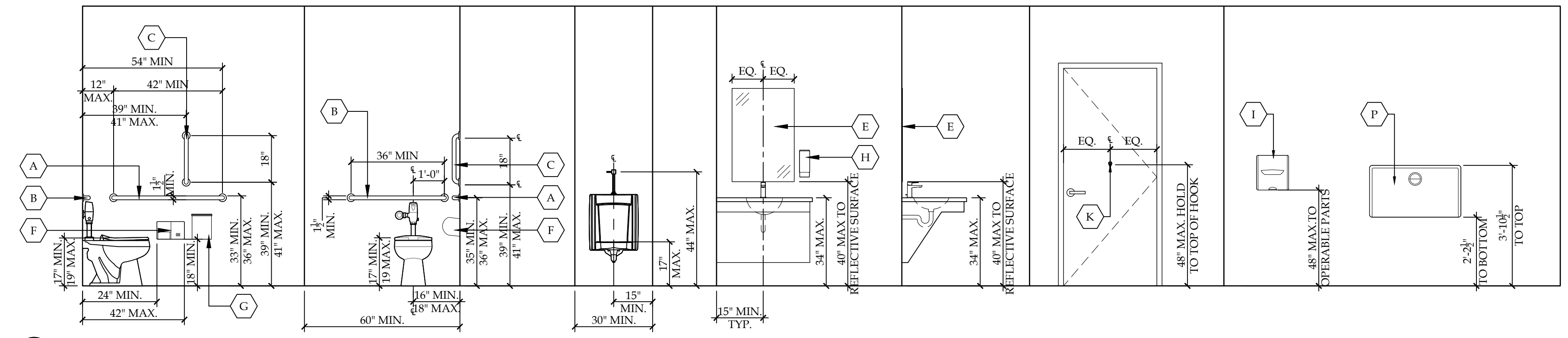


C5 TOILET ROOM ELEVATION
 3/8" = 1'-0"

ACCESSORIES SCHEDULE					
MARK	ITEM	MODEL #	SUPPLIER	BACKUP SUPPORT	LOCATION/NOTES
A	42" MIN HORIZONTAL GRAB BAR	1067	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS.	SEE DRAWING FOR LOCATIONS
B	36" MIN HORIZONTAL GRAB BAR	914	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS.	SEE DRAWING FOR LOCATIONS
C	18" MIN VERTICAL GRAB BAR	457	AMERICAN SPECIALTIES, INC.	PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS.	SEE DRAWING FOR LOCATIONS
D	TRASH RECEPTACLE	TBD	TBD		1 PER TOILET ROOM
E	FRAMELESS POLISHED PLATE GLASS MIRROR - 1/4" THICK	8287	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS.	DIMENSIONS: 24" WIDE X 36" HIGH SEE DRAWING FOR LOCATIONS
F	TOILET TISSUE DISPENSER	04-32549BLK	TAYMOR	PER MANUFACTURERS REQUIREMENTS.	SEE DRAWING FOR LOCATIONS
G	SURFACE MOUNTED SANITARY WASTE RECEPTACLE	20852	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS.	SEE DRAWING FOR LOCATIONS
H	SURFACE MOUNTED AUTOMATIC HAND SOAP DISPENSER	TBD	TBD	PER MANUFACTURERS REQUIREMENTS.	SEE DRAWING FOR LOCATIONS. OPERABLE POINT LOCATED NO HIGHER THAN 48" AFF.
I	PAPER TOWEL DISPENSER	TBD	TBD	PER MANUFACTURERS REQUIREMENTS.	SEE DRAWING FOR LOCATIONS. STAINLESS STEEL COVER
J	HORIZONTAL STAINLESS STEEL WALL MOUNTED BABY CHANGING STATION	200-EH-02	FOUNDATIONS	PER MANUFACTURERS REQUIREMENTS.	SEE DRAWING FOR LOCATIONS
K	SURFACE MOUNTED COAT HOOK AND BUMPER	0714	AMERICAN SPECIALTIES, INC.	PER MANUFACTURERS REQUIREMENTS.	BACK OF RESTROOM DOORS



A1 ENLARGED TOILET ROOMS PLAN
 3/8" = 1'-0"



A2 TYPICAL MOUNTING HEIGHTS
 3/8" = 1'-0"

NOTE:
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 - REFER TO FINISH DRAWINGS AND SPECIFICATIONS FOR FINISHES

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 JOB CAPT. J.Somers INTERIORS _____

SEAL:

TITLE:

DETAILS

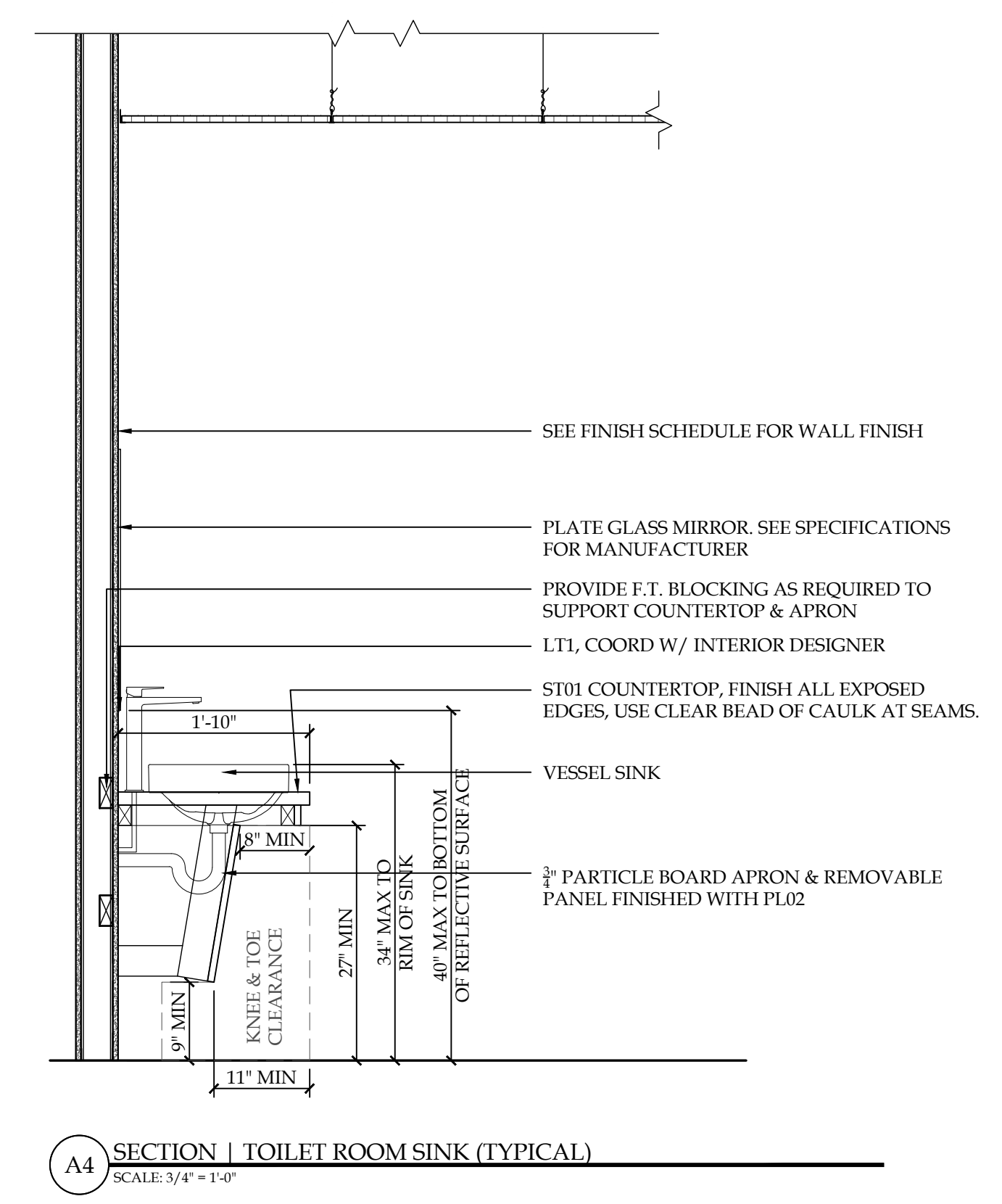
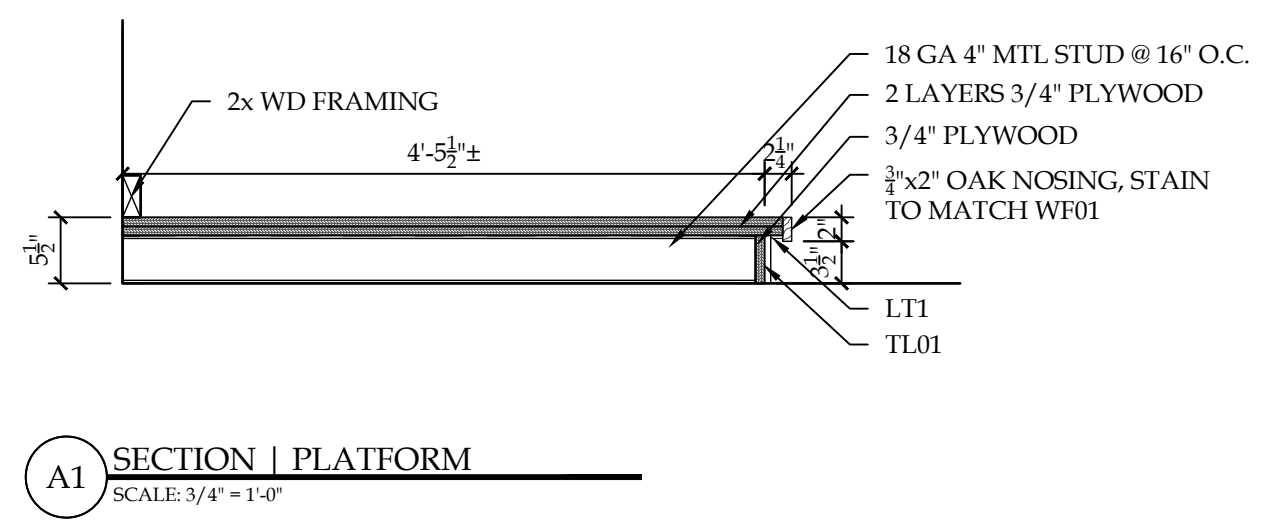
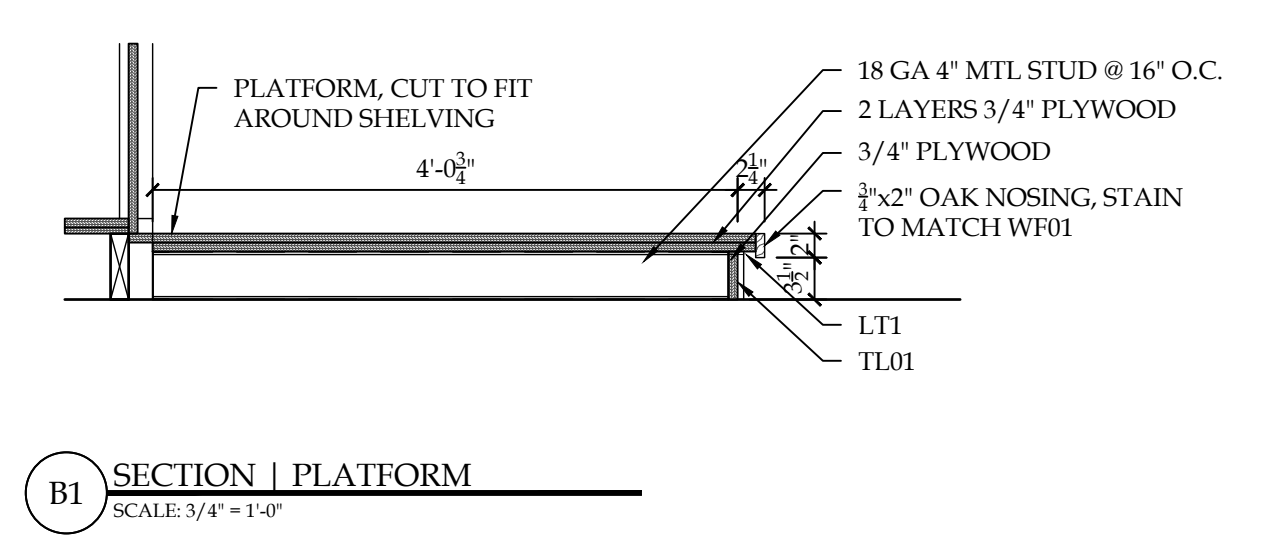
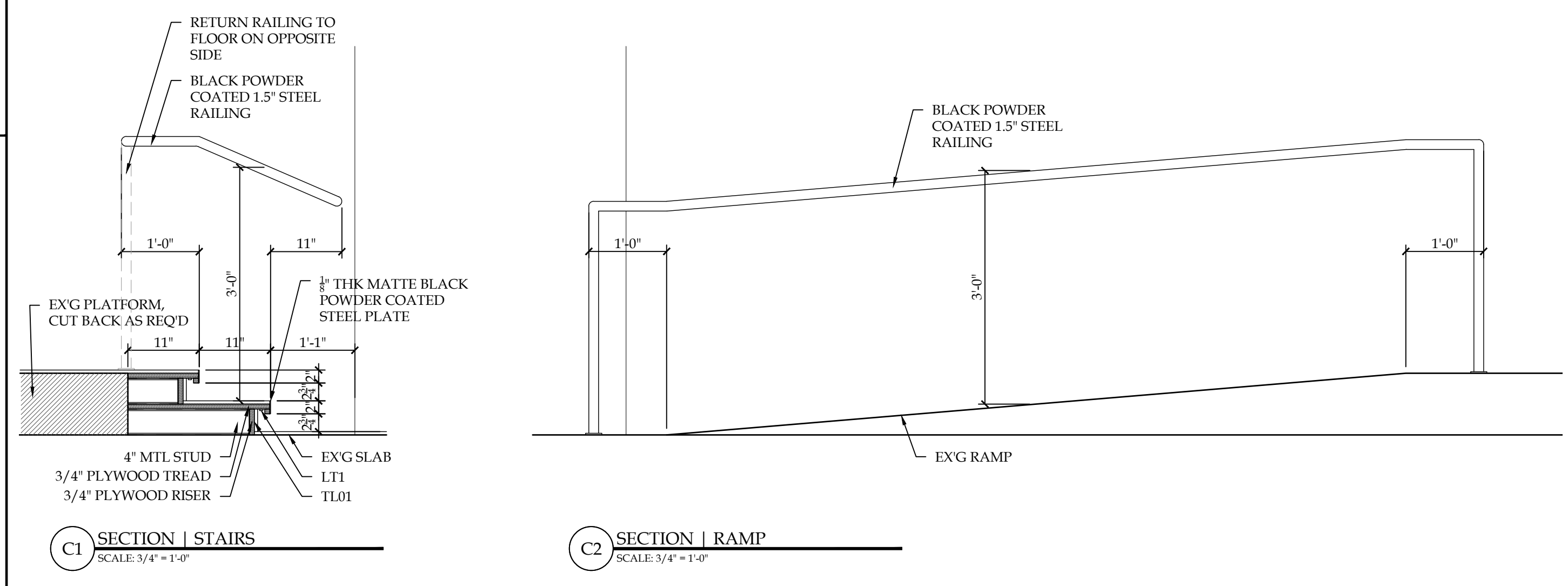


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TITLE:

M01 & M02 DETAILS

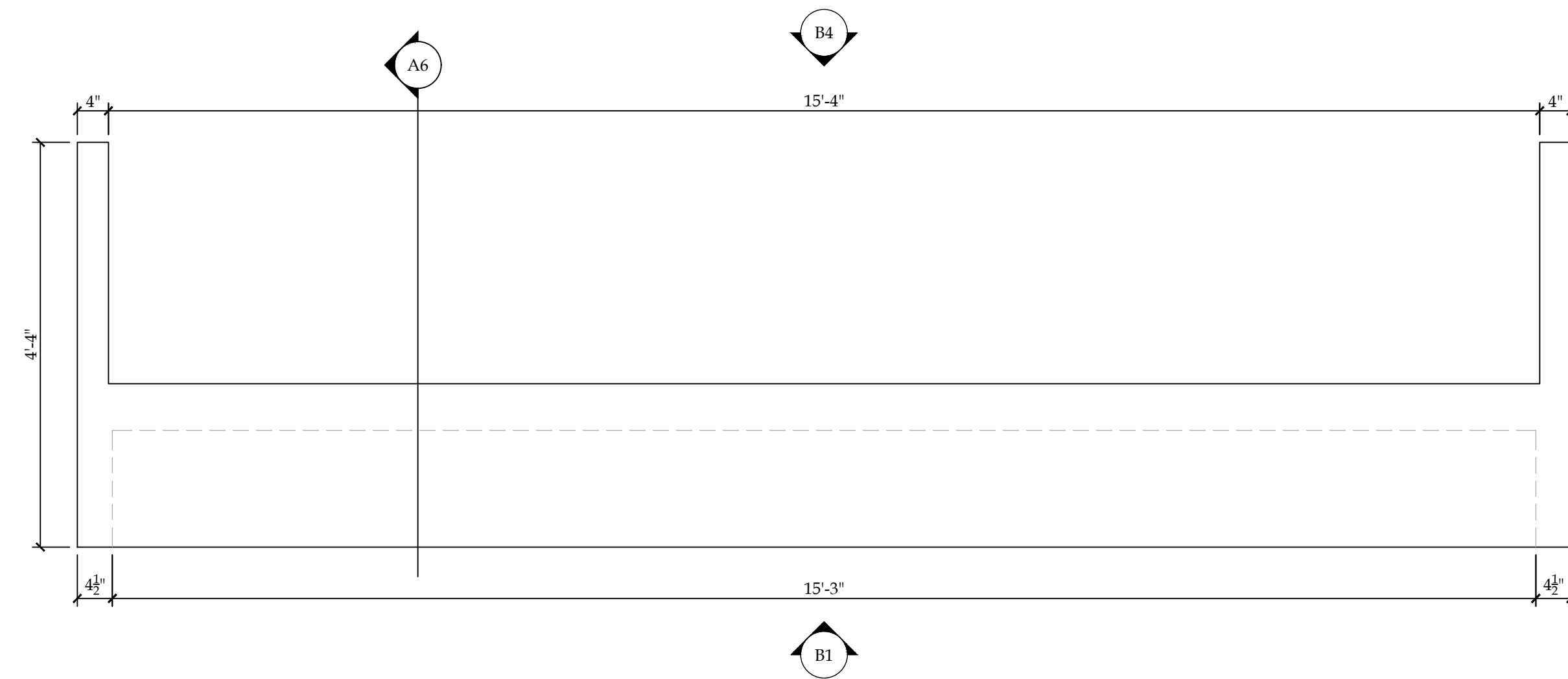


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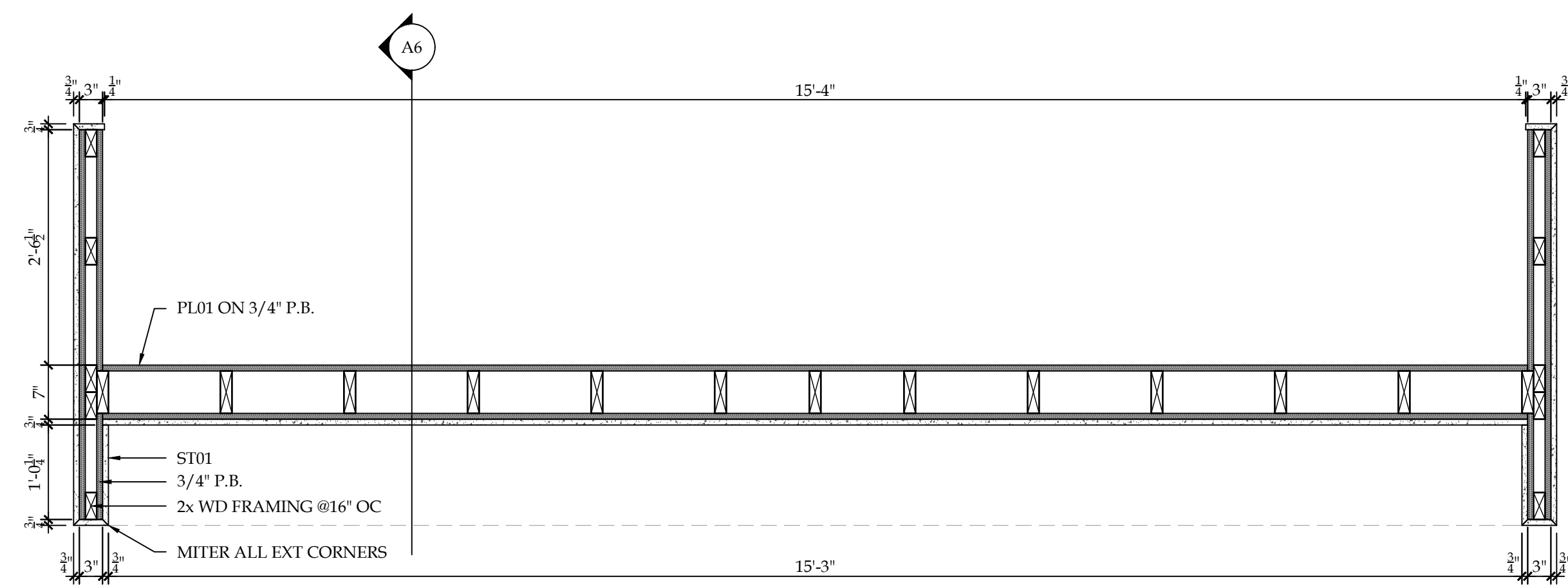
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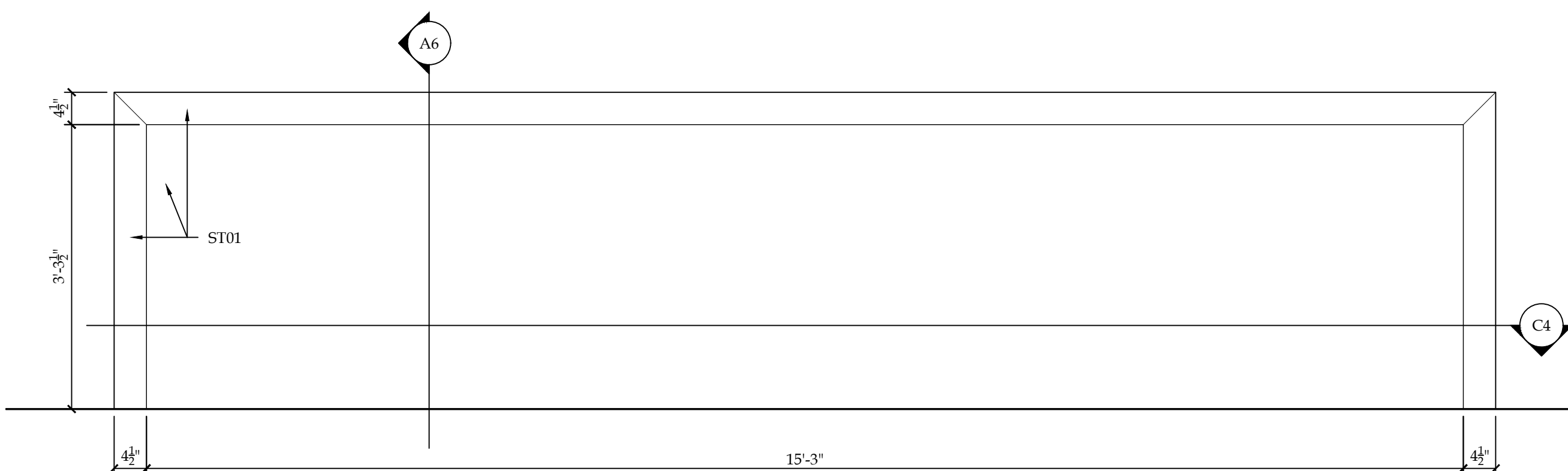
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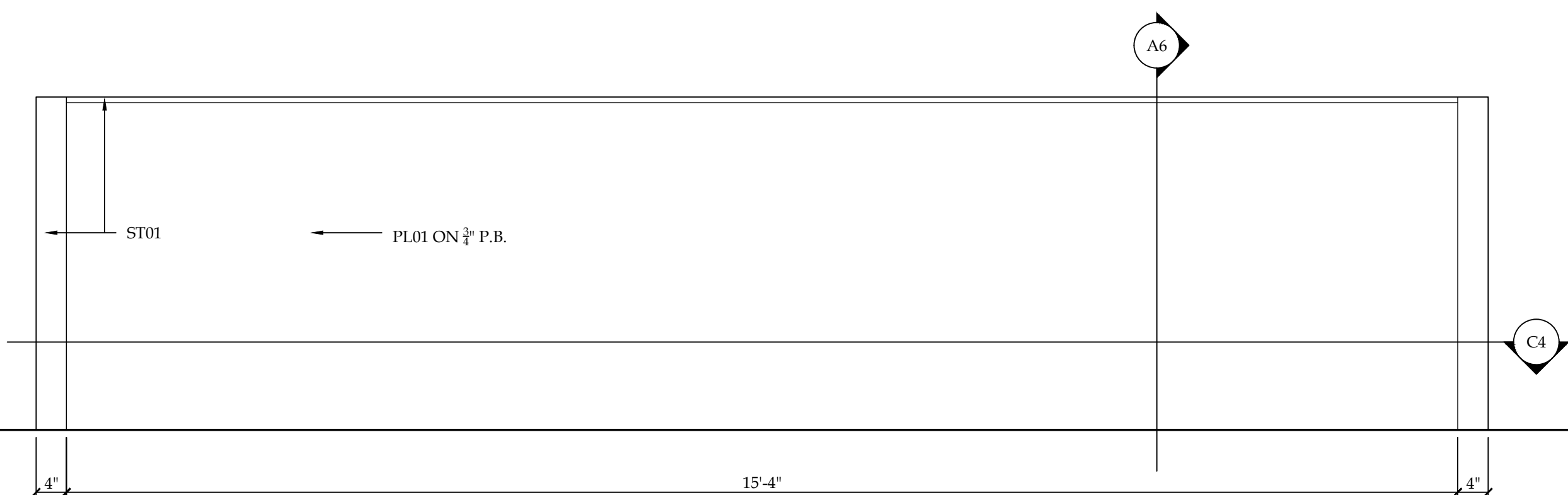
C1 M02 PLAN
SCALE: 3/4" = 1'-0"



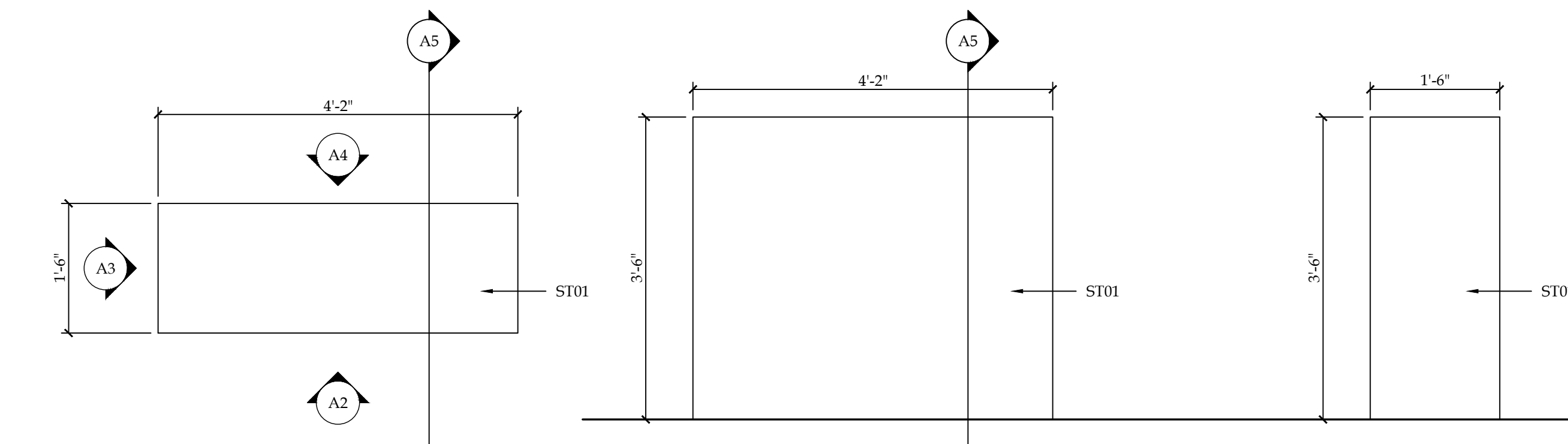
C4 M02 PLAN SECTION
SCALE: 3/4" = 1'-0"



B1 M02 FRONT ELEVATION
SCALE: 3/4" = 1'-0"



B4 M02 REAR ELEVATION
SCALE: 3/4" = 1'-0"

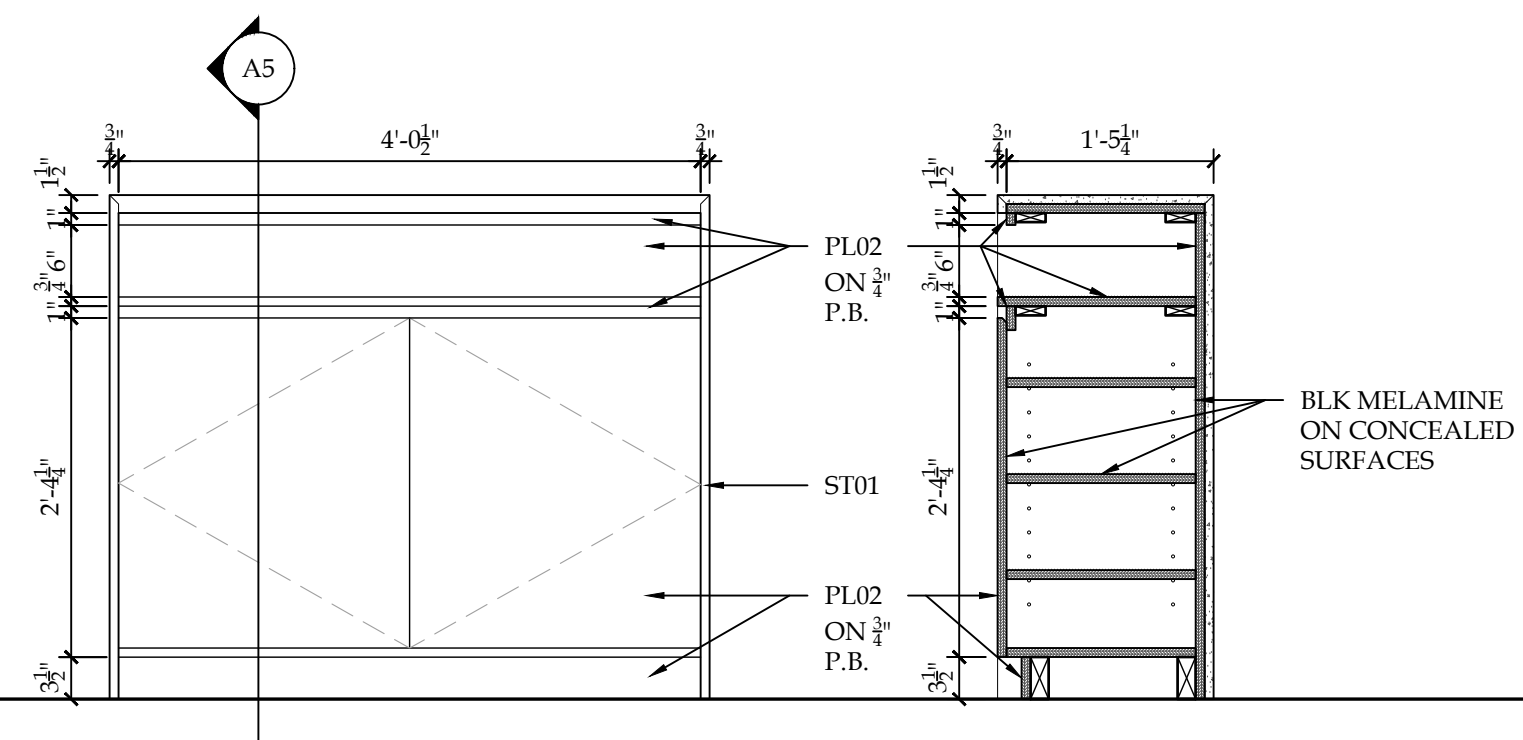


A1 M01 PLAN
SCALE: 3/4" = 1'-0"

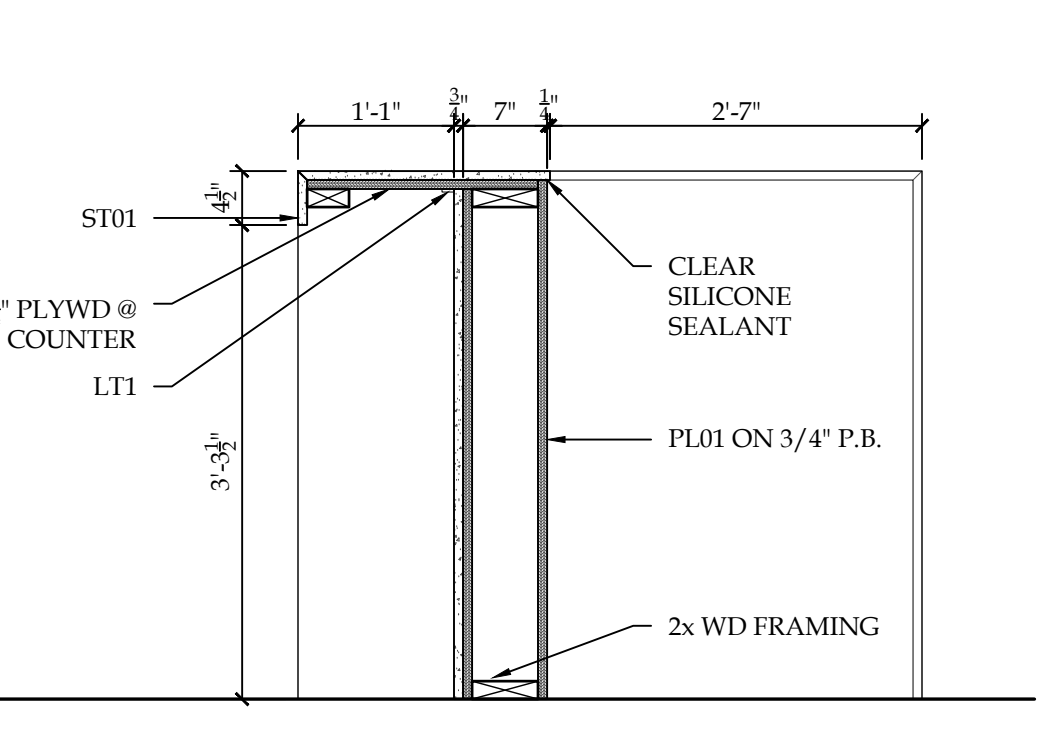
A2 M01 REAR ELEVATION
SCALE: 3/4" = 1'-0"

A3 M01 SIDE ELEVATION
SCALE: 3/4" = 1'-0"

A4 M01 FRONT ELEVATION
SCALE: 3/4" = 1'-0"



A5 M01 SECTION
SCALE: 3/4" = 1'-0"



A6 M02 SECTION
SCALE: 3/4" = 1'-0"

1 2 3 4 5 6

E
D
C
B
A

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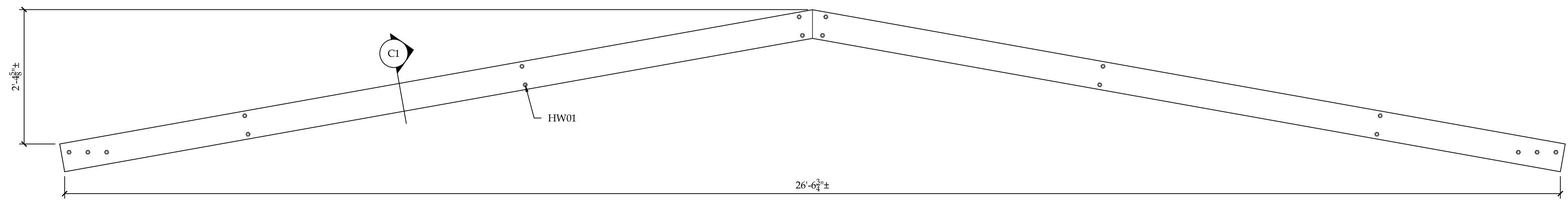
M03, M04, & M05 DETAILS



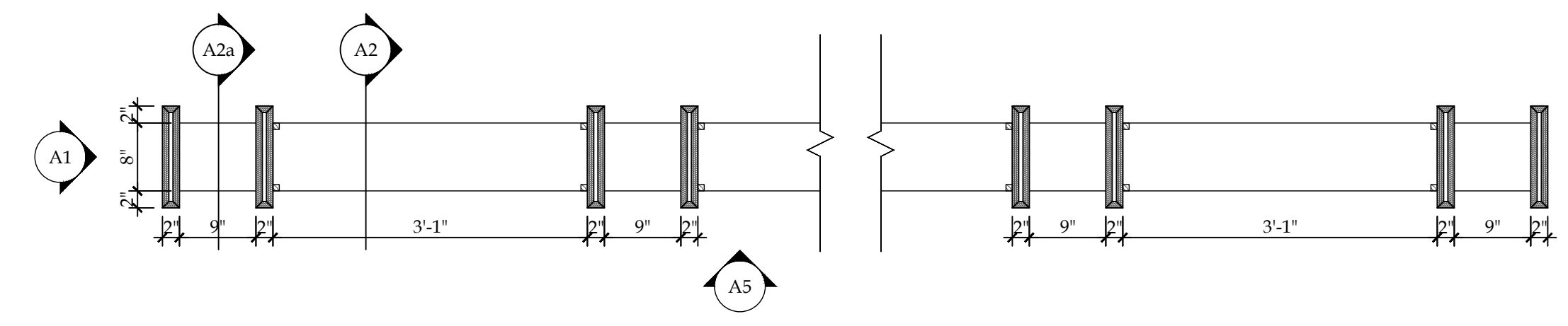
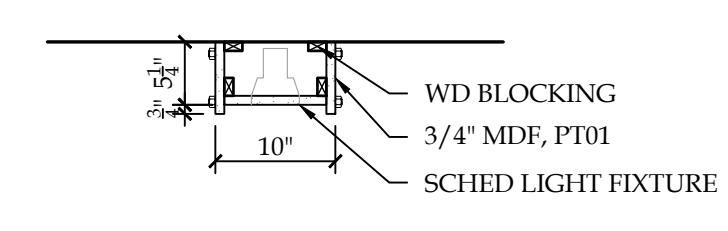
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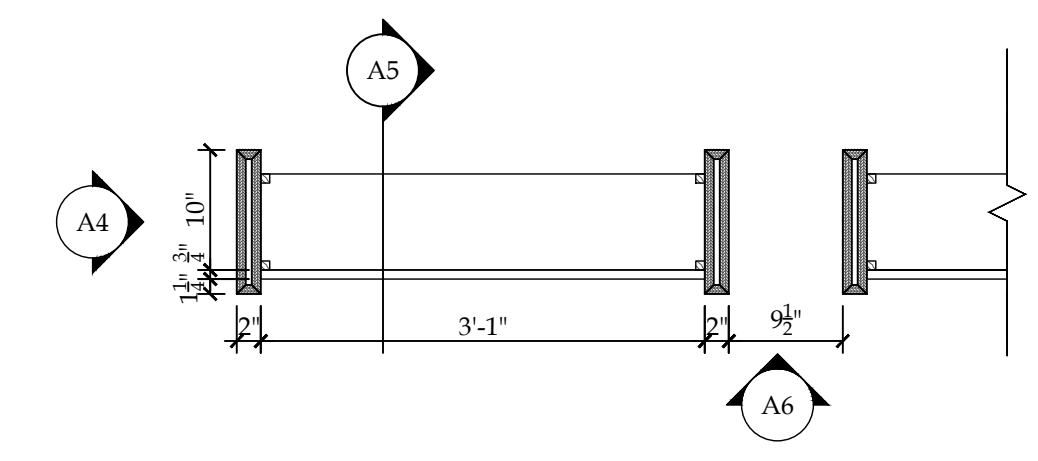
DRAWING #: A-503



D1 M05 ELEVATION
SCALE: 3/4" = 1'-0"

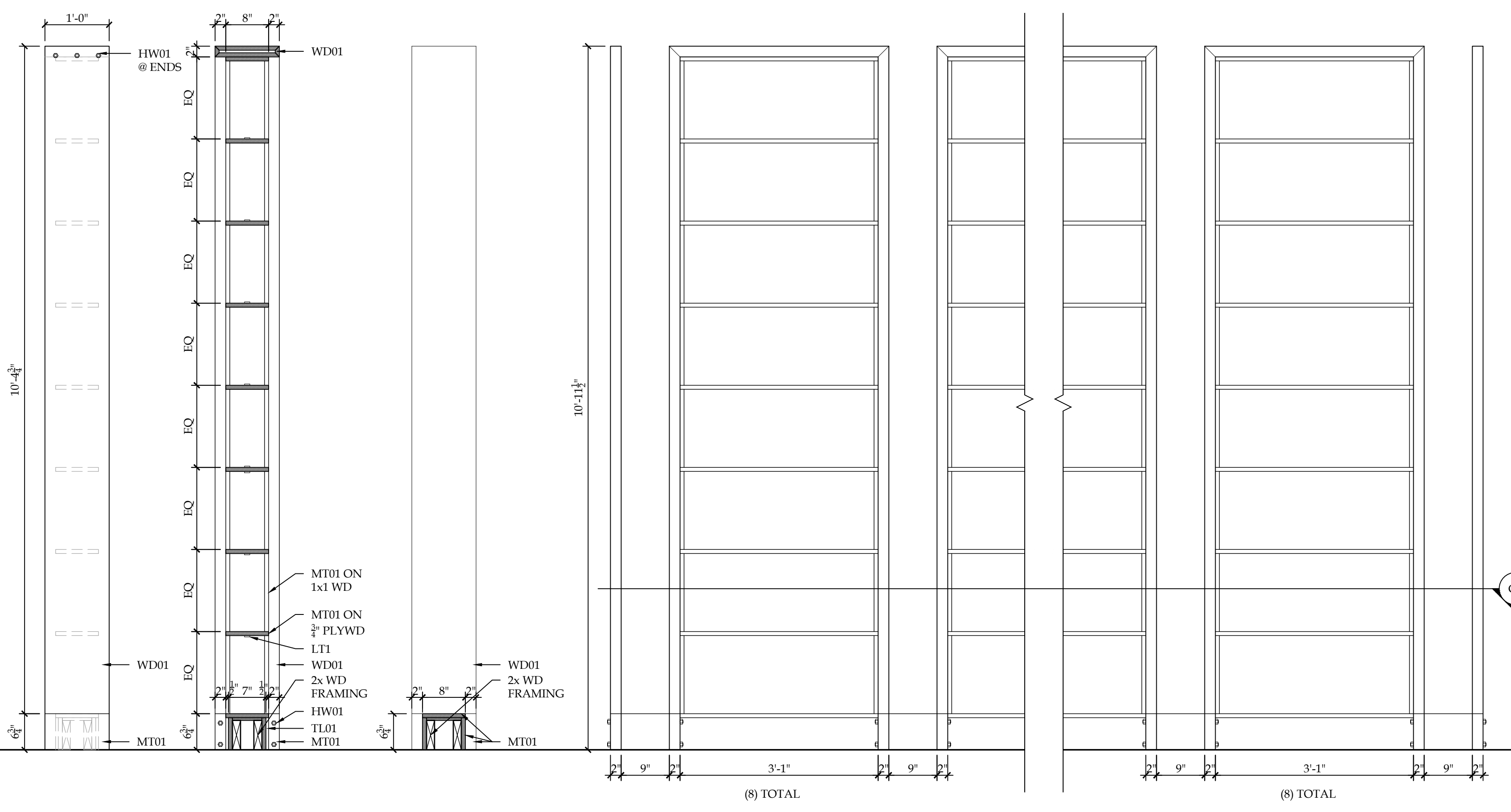


C2 M03 PLAN SECTION
SCALE: 3/4" = 1'-0"

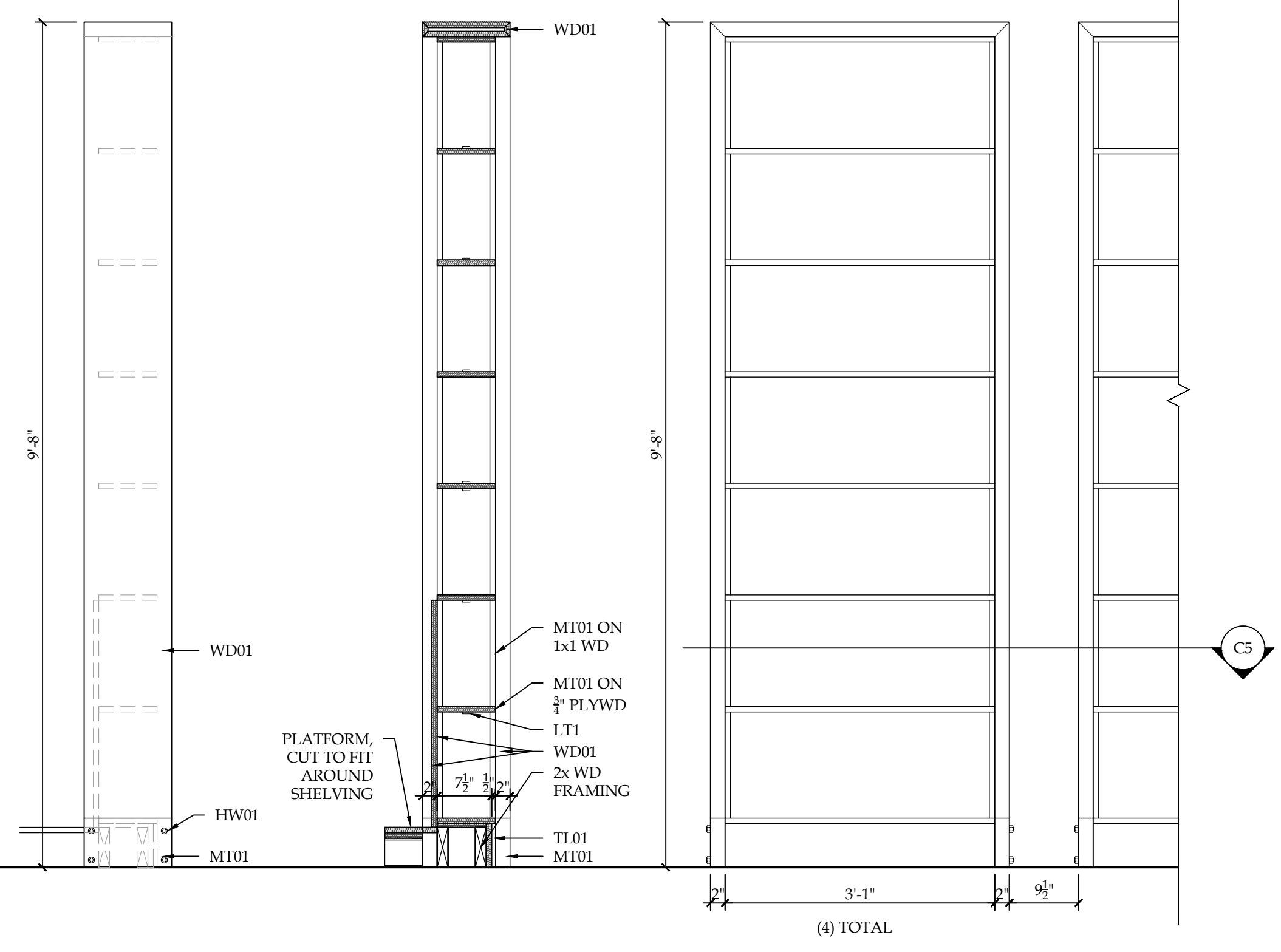


C5 M04 PLAN SECTION
SCALE: 3/4" = 1'-0"

C1 M05 SECTION
SCALE: 3/4" = 1'-0"

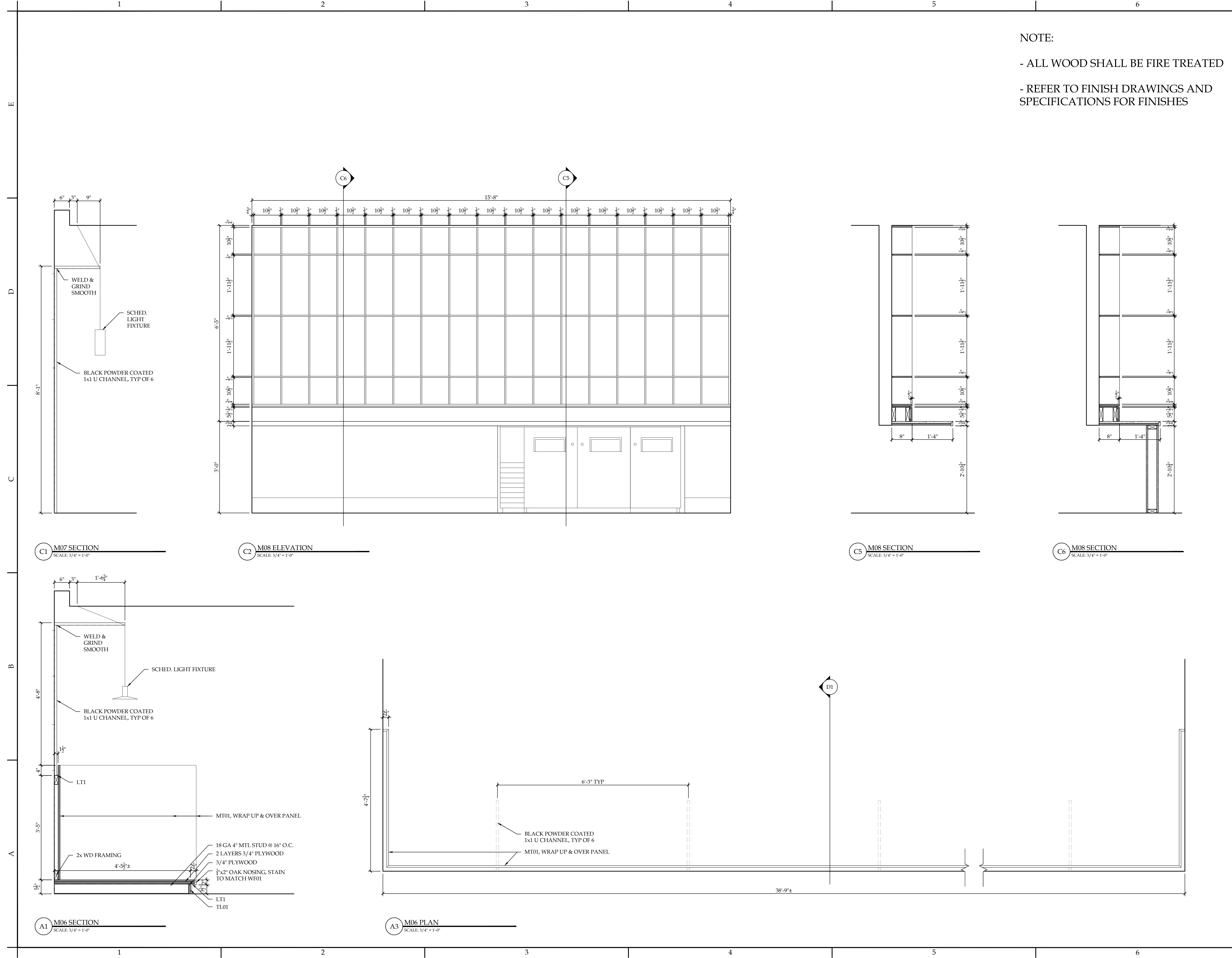


A1 M03 SIDE ELEVATION SCALE: 3/4" = 1'-0"
A2 M03 SECTION SCALE: 3/4" = 1'-0"
A2a M03 SECTION SCALE: 3/4" = 1'-0"
A3 M03 FRONT ELEVATION SCALE: 3/4" = 1'-0"



A4 M04 SIDE ELEVATION SCALE: 3/4" = 1'-0"
A5 M04 SECTION SCALE: 3/4" = 1'-0"
A6 M04 FRONT ELEVATION SCALE: 3/4" = 1'-0"

1 2 3 4 5 6



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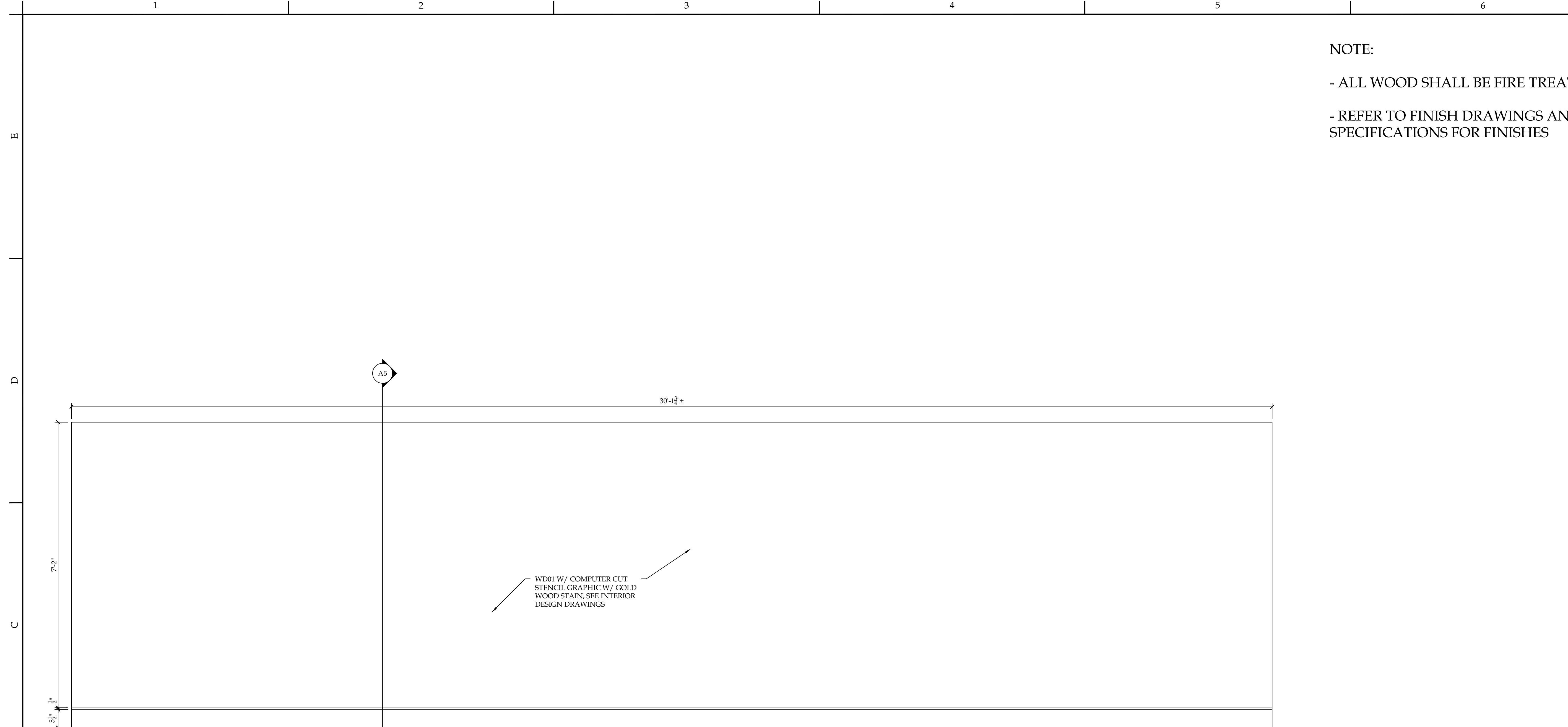
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TITLE:
M06, M07, & M08 DETAILS



SA JOB #: 15108.03
 DATE: 04-03-20

DRAWING #: **A-504**



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 JOB CAPT. J. Somers INTERIORS _____

SEAL:

TITLE:
M10 & M11 DETAILS



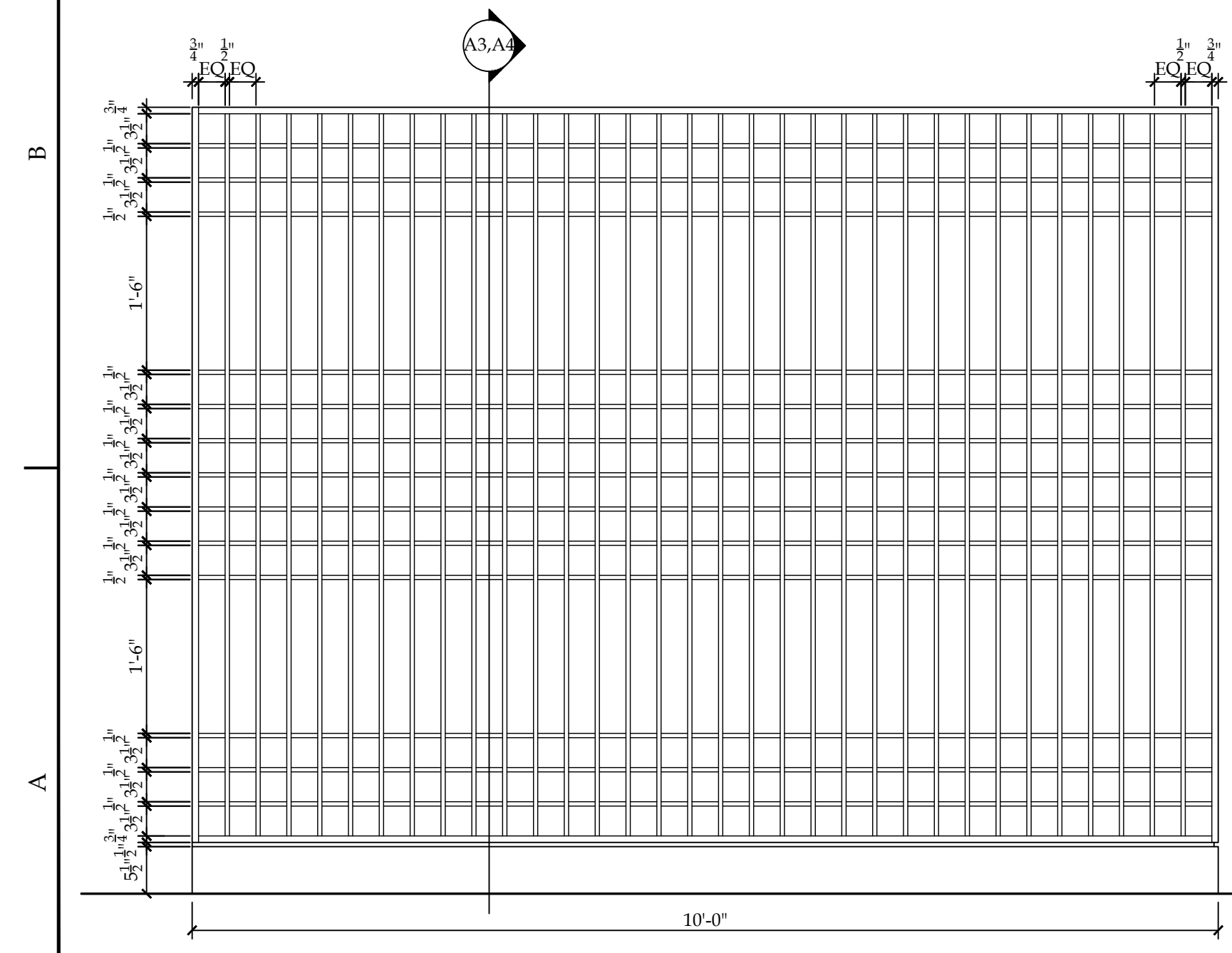
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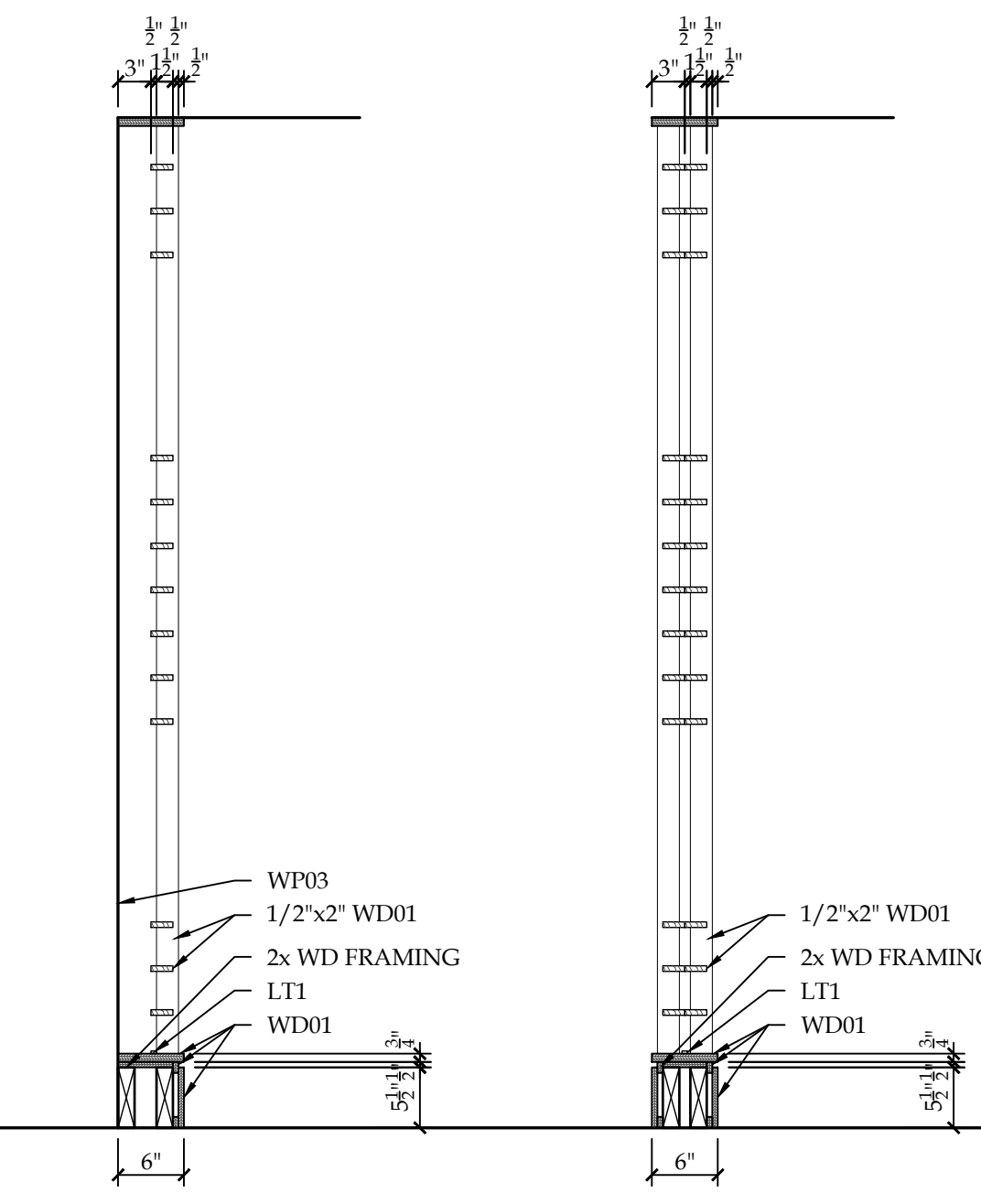
SA JOB #: **15108.03** DATE: **04-03-20**

DRAWING #: **A-506**

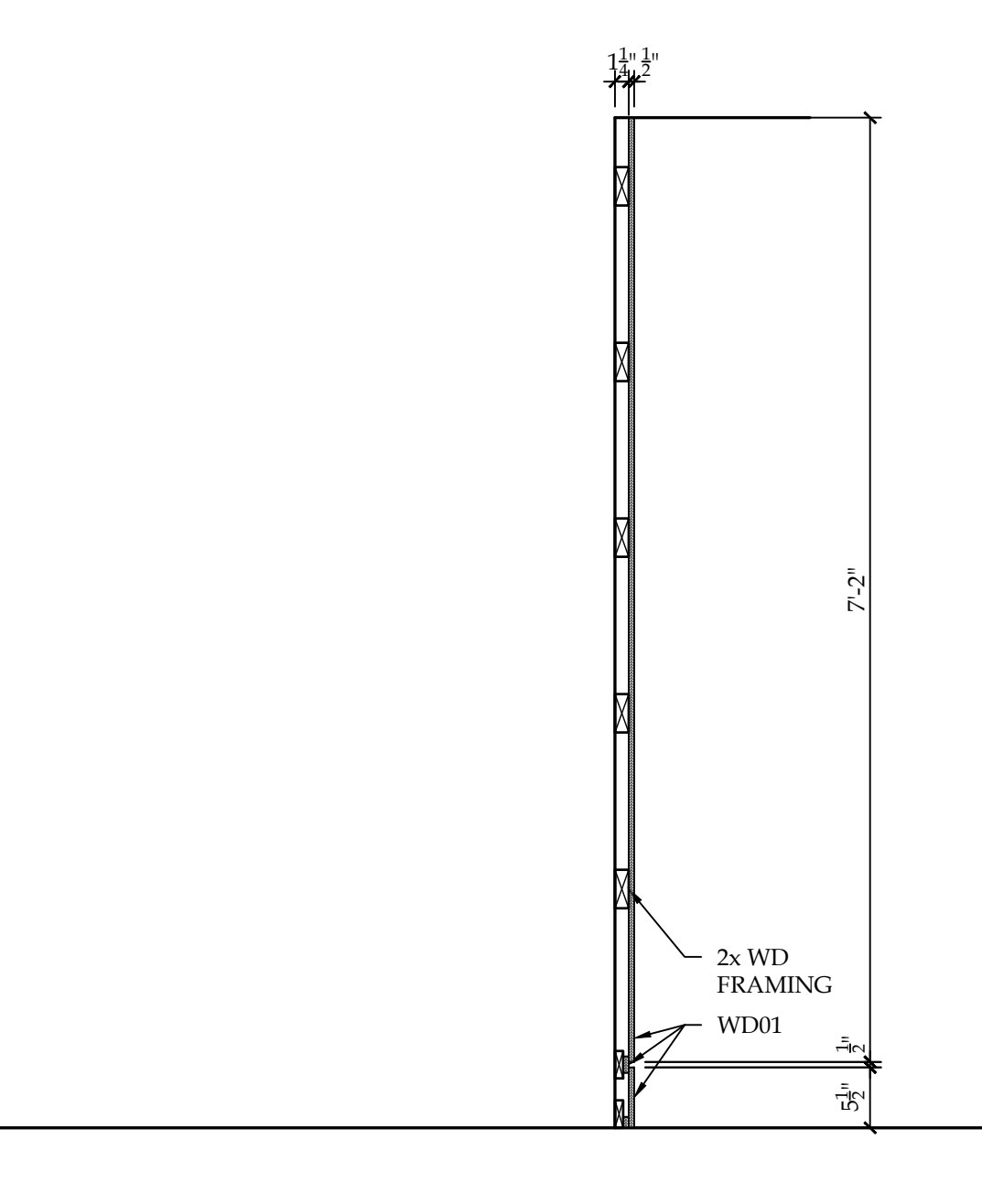
C1 M11 ELEVATION
 SCALE: 3/4" = 1'-0"



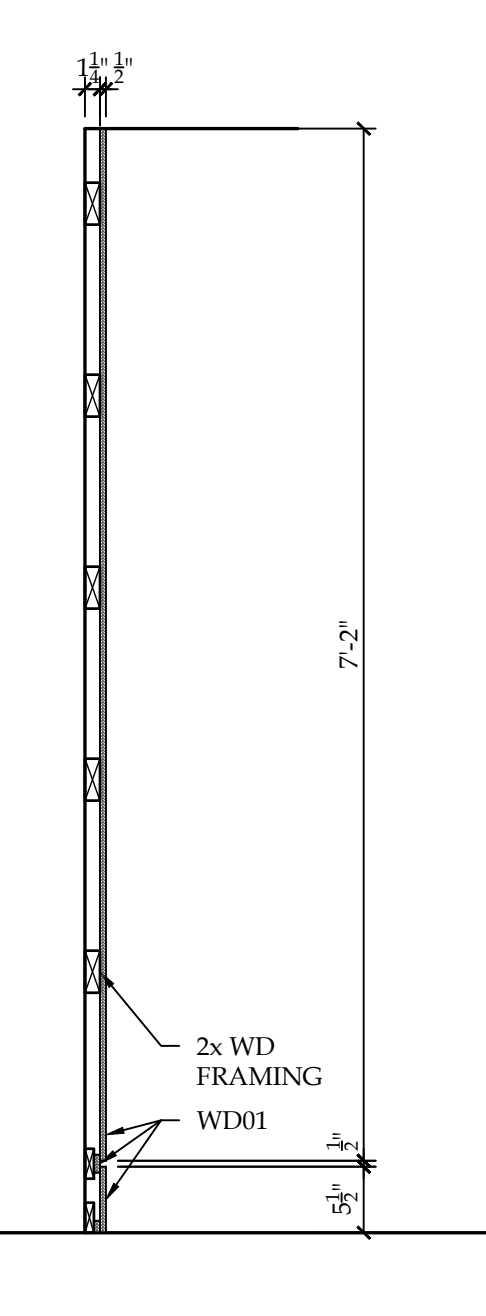
A1 M10 ELEVATION
 SCALE: 3/4" = 1'-0"



A3 M10 END SECTION
 SCALE: 3/4" = 1'-0"



A4 M10 SECTION
 SCALE: 3/4" = 1'-0"



A5 M11 SECTION
 SCALE: 3/4" = 1'-0"

E
D
C
B
A

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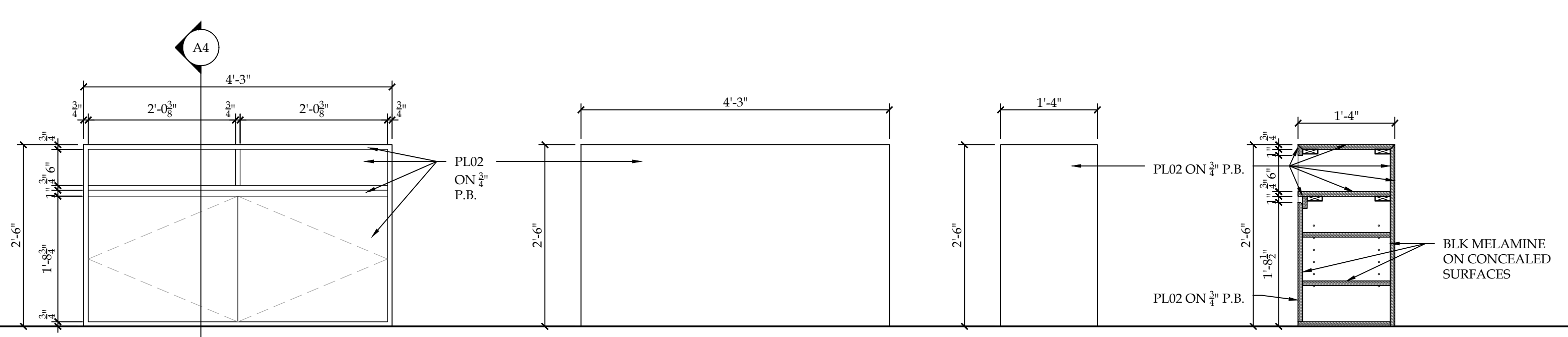
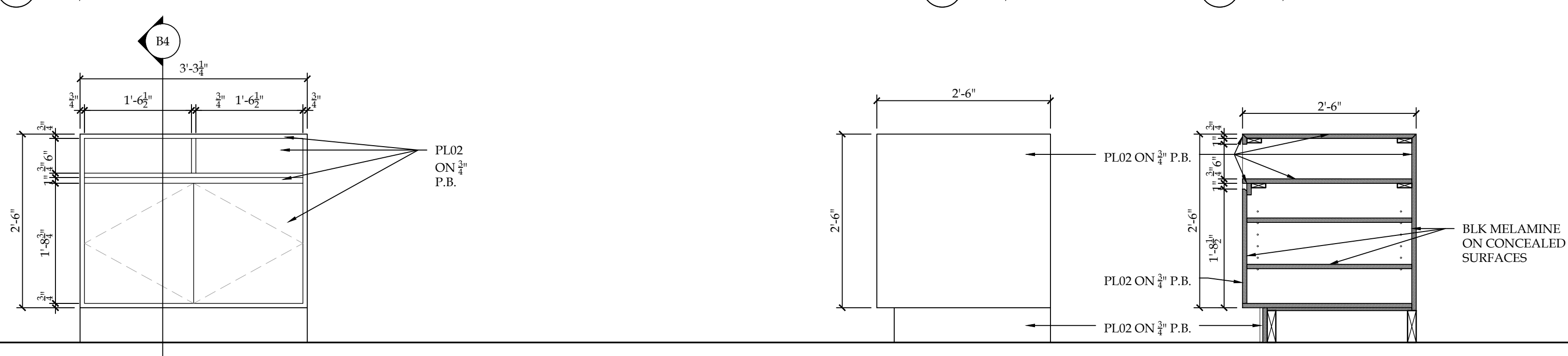
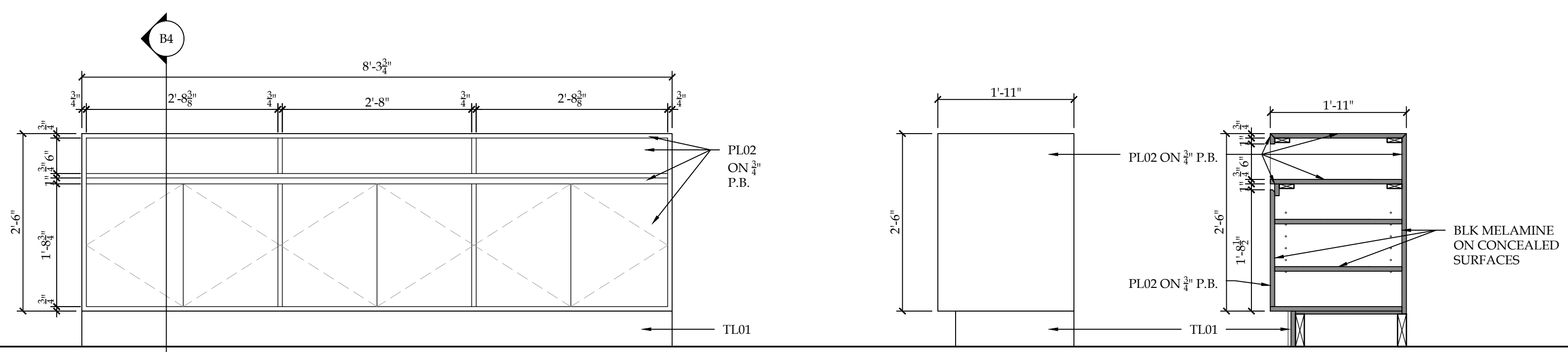
SEAL:

TITLE:
M13, M14, & M15 DETAILS



SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: **A-507**



ROOM	DOOR NUM.	DOOR							FRAME				FIRE RATING	HARDWARE SET NO.	REMARKS
		TYPE	DOOR OPNG SIZE		THK	MATL	FINISH	GLASS	MATL	TYPE	DETAILS				
			WIDTH	HEIGHT							HEAD	JAMB			
STAFF ROOM	101	F	3'-0"	7'-0"	1 1/2"	SCWD	PNT	-	HM	A	H1	J1	-	1	
VESTIBULE	102	HG	(2) 3'-0"	7'-0"	1 1/2"	HM	PC	T	HM	B	H2	J2	-	2	
HALL	103	F	3'-0"	7'-0"	1 1/2"	SCWD	STN	-	HM	B	H2	J2	-	3	
WOMEN	104	F	3'-0"	7'-0"	1 1/2"	SCWD	STN	-	HM	B	H2	J2	-	3	
MEN	105	F	3'-0"	7'-0"	1 1/2"	SCWD	STN	-	HM	B	H2	J2	-	3	

KEY	HARDWARE SETS	GLAZING KEY
AL = ALUMINUM	SET 1	F = 1/4" FLOAT
HM = HOLLOW METAL	3 CONCEALED HINGES	T = 1/4" TEMPERED
SCWD = SOLID CORE WOOD	1 110 PUSH PULL	IF = 1" INSULATED FLOAT
WD = WOOD	1 OVERHEAD STOP/CLOSER	IT = 1" INSULATED TEMPERED
PC = POWDER COATED	1 B560P DEADBOLT	*OTHER DESIGNATIONS INDICATE
PNT = PAINT	3 SILENCERS	FIRE RATED GLAZING
STN = STAIN		
	SET 2	
	4 PIVOT HINGES	
	2 11047 PUSH PULL	
	2 OVERHEAD STOP/CLOSER	
	1 B560P DEADBOLT	
	2 SILENCERS	
	SET 3	
	3 HINGES	
	1 110 PUSH PULL	
	1 OVERHEAD STOP/CLOSER	
	3 SILENCERS	

- NOTE:**
- SAND, FILL, PRIME, AND PAINT ALL EXISTING HOLLOW METAL DOORS AND FRAMES TO COORDINATE WITH ADJACENT FINISHES.
 - ENSURE ALL EXISTING DOORS TO REMAIN ARE IN WORKING ORDER AND REPAIR AS REQUIRED.

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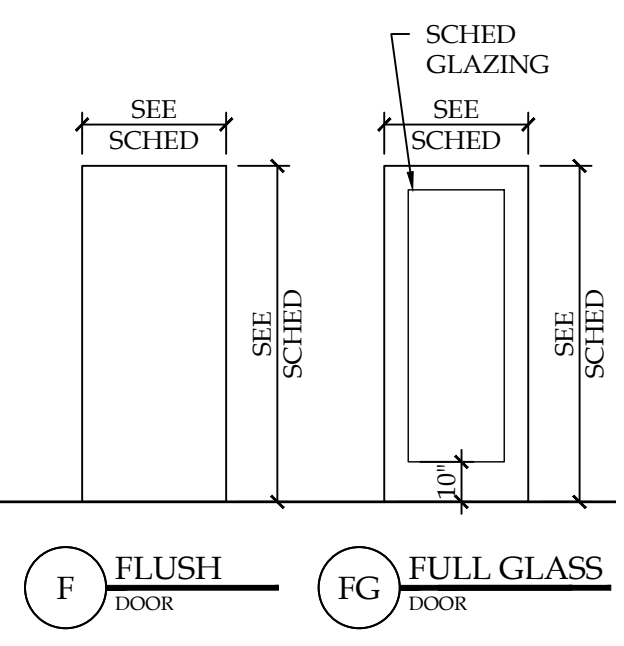
TITLE:

DOOR TYPES & DETAILS

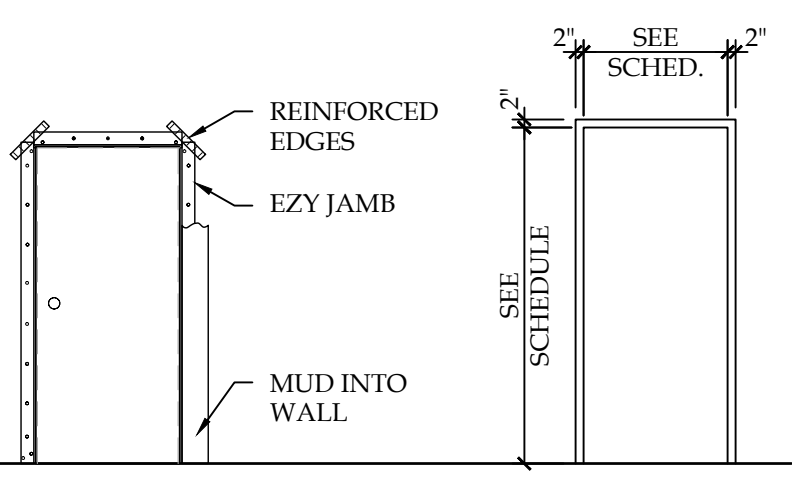


SA JOB #: 15108.03 DATE: 04-03-20

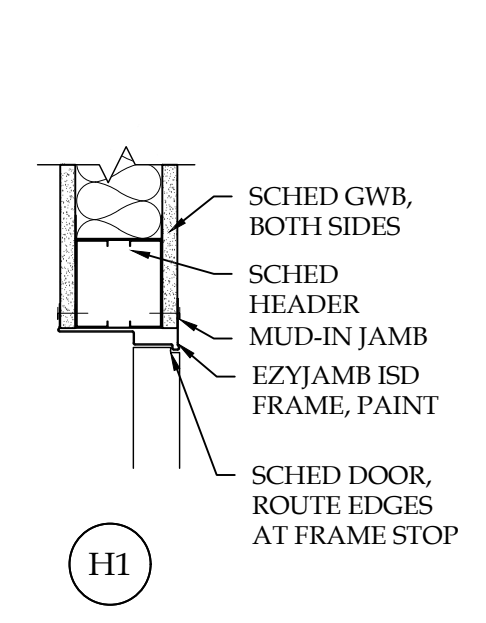
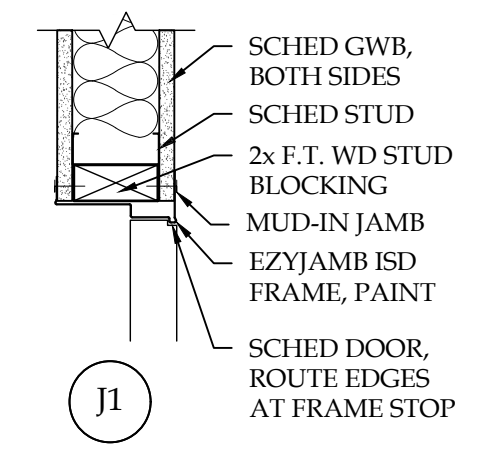
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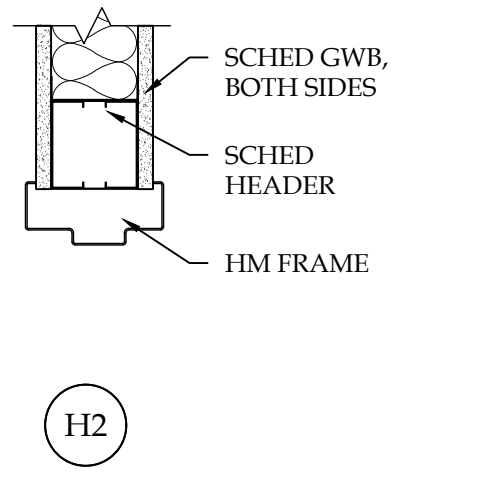
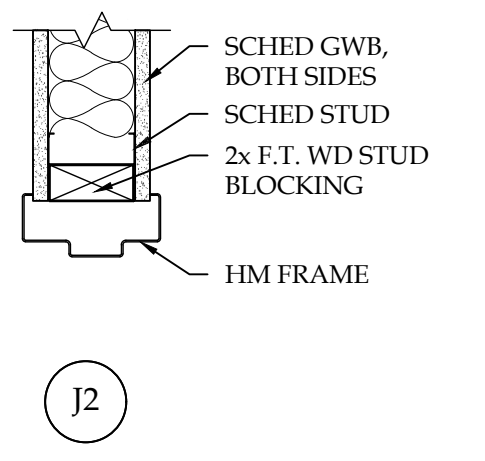
B1 DOOR TYPES
SCALE: 1/4" = 1'-0"



A1 FRAME TYPES
SCALE: 1/4" = 1'-0"



A3 HEAD & JAMB DETAILS
SCALE: 1/2" = 1'-0"



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ROOM FINISH SCHEDULE					
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	REMARKS
101	VESTIBULE	TL03		TL03	
102	HOST	TL01		WD01/TL03	
103	STAFF ROOM	TL04	TL01	PT04	
104	BAR	TL01		WP01/TL03	
105	DINING 1	TL01/WF01	TL01	TL02/TL03	
106	VIP	TL01	TL01	WD01/WP02	
107	DINING 2	TL01/WF01		TL01/WP03	
108	HALL	TL01		TL03	
109	WOMEN	TL01		TL03	
110	MEN	TL01		TL03	
111	RECEIVING	TL04	TL04	FRP	
112	OFFICE	TL04	TL04	FRP	
113	DISHWASHING	TL04	TL04	FRP	
114	KITCHEN	TL01		TL03	
115	KITCHEN	TL04	TL04	FRP/SS01	
116	SUSHI	TL04/TL01	TL04@FRP	FRP/TL03	
117	MECHANICAL	EXG	EXG	PT04	
118	COOLER	EXG		EXG	
119	COOLER	EXG		EXG	
120	FREEZER	EXG		EXG	
121	COOLER	EXG		EXG	

FOR FINISH SPECIFICATIONS, SEE FINISH APPENDIX IN PROJECT MANUAL

DRYWALL FINISH LEVELS	
LEVEL 0:	NO TAPING, FINISHING, OR ACCESSORIES REQUIRED
LEVEL 1:	ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE SET IN JOINT COMPOUND. SURFACE SHALL BE FREE OF EXCESS JOINT COMPOUND. TOOL MARKS AND RIDGES ARE ACCEPTABLE.
LEVEL 2:	ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH A COAT OF JOINT COMPOUND. SURFACE SHALL BE FREE OF EXCESS JOINT COMPOUND. TOOL MARKS AND RIDGES ARE ACCEPTABLE. JOINT COMPOUND APPLIED OVER THE BODY OF THE TAPE AT THE TIME OF TAPE EMBEDMENT SHALL BE CONSIDERED A SEPARATE COAT OF JOINT COMPOUND AND SHALL SATISFY THE CONDITION OF THIS LEVEL.
LEVEL 3:	ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. ONE ADDITIONAL COAT OF JOINT COMPOUND SHALL BE APPLIED OVER ALL JOINTS AND INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH TWO SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. SEE PAINTING/WALLCOVERING SPECIFICATION IN THIS REGARD.
LEVEL 4:	ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. TWO SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND SHALL BE APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL FINISHES. SEE PAINTING/WALLCOVERING SPECIFICATION IN THIS REGARD.
LEVEL 5:	ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. TWO SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND SHALL BE APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. A THIN SKIM COAT OF JOINT COMPOUND TROWEL APPLIED, OR A MATERIAL MANUFACTURED ESPECIALLY FOR THIS PURPOSE AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, APPLIED TO THE ENTIRE SURFACE. THE SURFACE SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINISH PAINT. SEE PAINTING SPECIFICATION IN THIS REGARD.

REMARKS	
1.	REFER TO REFLECTED CEILING PLAN FOR EXACT DETAILS (MATERIALS, HEIGHTS, SIZES, ETC.) AND CEILING LAYOUT.
2.	WHERE SCHEDULED, WALL TILE WILL ACT AS WALL BASE.
3.	REFER TO FINISH FLOOR PLANS FOR ACCENT WALL LOCATIONS.

GENERAL NOTES

G1. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE FOLLOWING FINISHES UNLESS DIRECTED BY THE OWNER OR THE ARCHITECT.

G2. MANY FINISH MATERIALS REQUIRE A SUBSTANTIAL LEAD TIME. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER ALL MATERIALS AT THE APPROPRIATE TIME. ANY FEES INCURRED AS A RESULT OF FINISHES NOT BEING ORDERED ON TIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

G3. ANY AND ALL FINISH SELECTIONS/COLORS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. ACCOUNTING FOR PROPER LEAD TIME. ANY FINISH THAT IS INSTALLED WITHOUT ARCHITECT'S APPROVAL MAY BE REQUIRED TO BE REMOVED AND REPLACED BY THE GENERAL CONTRACTOR.

G4. ANY DISCREPANCIES BETWEEN ARCHITECTURAL ELEVATION(S), PLAN(S), SCHEDULE(S) AND NOTES MUST BE BROUGHT TO ARCHITECTS ATTENTION. ARCHITECTS MUST BE CONTACTED AND GIVE APPROVAL TO MOVE FORWARD WITH SPECIFIC DIRECTION PRIOR TO ANTICIPATED ACTION.

G5. IF COLOR OR FINISH IS NOT SPECIFIED CONTACT THE ARCHITECT FOR CLARIFICATION.

G6. ALL PAINTING, INCLUDING MEP ITEMS THAT REQUIRE PAINTING, IS UNDER THE PAINTER'S SCOPE OF WORK.

G7. ALL INTERIOR PRODUCTS TO MEET/EXCEED FLAME SPREAD RATING PER CODE.

G8. PROVIDE MOISTURE RESISTANT GREEN BOARD AROUND 3 WALL SURROUND OF ALL DRINKING FOUNTAINS.

G9. ALL BRACKETS SUPPORTING SHELVING/ ADJUSTABLE SHELVING & COUNTERTOPS TO BE EXTRA HEAVY DUTY. SEE DRAWINGS FOR DETAILS.

WINDOWS:

G1. WINDOW SILLS SHALL RECEIVE DRYWALL RETURNS - REFER TO WINDOW DETAILS.

G2. ALL GLAZING FACING EXTERIOR TO RECEIVE ROLLER SHADES. COLOR TO BE SELECTED BY ARCHITECT UNLESS OTHERWISE SPECIFIED.

CEILINGS:

G1. ALL GYPSUM BOARD CEILINGS AND GYPSUM BOARD SOFFITS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINISH AND ARE TO BE PAINTED IN A FLAT FINISH. COLOR TO BE SHERWIN WILLIAMS - CEILING WHITE, UNLESS OTHERWISE NOTED.

G2. ALL EXPOSED MECHANICAL DUCT COVERS SHALL BE PAINTED TO MATCH THE SURROUNDING WALL/CEILING COLOR. PRIME AS NECESSARY.

G3. ALL EXPOSED PLUMBING FIXTURES/ MECHANICAL DUCT/SUPPLY/RETURN SYSTEMS TO BE PAINTED AND/OR PURCHASED IN A COLOR TO MATCH THE SURROUNDING WALL/CEILING COLOR.

G4. ANY CEILING HVAC SUPPLY/DIFFUSERS TO BE PAINTED TO MATCH SURROUNDING CEILING FINISH. ANY QUESTION OR CONCERN TO BE BROUGHT TO ARCHITECTS ATTENTION FOR FINAL DECISION PRIOR TO ORDER/INSTALL BY CONTRACTOR OR OTHER.

WALLS:

G1. ALL GWB WALLS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINISH AND INCLUDE (1) COAT WALL PRIMER FOLLOWED BY (2) COATS WALL PAINT ON ALL INTERIOR WALL SURFACE UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SEE SPEC FOR DETAILS.

G2. ALL SURFACE MOUNTED CONDUITS SHALL BE PAINTED TO MATCH WALL PAINT.

G3. REFERENCE FINISH FLOOR PLAN FOR ACCENT COLOR LOCATIONS.

G4. PROVIDE SCHLUTER STRIP AS SCHEDULED AT EXPOSED UNFINISHED TILE EDGES. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.L.F. BASED ON MATERIAL THICKNESS.

G5. WHERE DARK PAINT COLORS ARE APPLIED, USE DEEP GRAY BASE PRIMER TO PREVENT BURNISHING.

G6. PROVIDE SPACERS AS NEEDED BEHIND MIRRORING IN RESTROOM TO ACCOUNT FOR TILE THICKNESS.

G7. ALL ELECTRICAL PANEL COVERS AND/OR MECHANICAL EQUIPMENT AND/OR DUCTING TO BE PAINTED TO MATCH ADJOINING WALL.

G9. REFER TO A-604 FOR SPECIFIC WALL FINISHES AND ACCENT WALL LOCATIONS.

FLOORS:

G1. CONDUCT MOISTURE TESTS ON ALL CONCRETE SLABS WHERE FINISH MATERIALS ARE SCHEDULED. RECORD PASSING MOISTURE LEVELS PRIOR TO START OF INSTALLATION. REFERENCE MANUFACTURERS INSTALLATION SPECIFICATIONS FOR EACH FLOOR FINISH TYPE TO VERIFY REQUIREMENTS.

G2. PROVIDE CORIAN OR EQUAL SOLID SURFACE THRESHOLD AT ALL TOILET ROOM TRANSITIONS UNLESS OTHERWISE SPECIFIED. ARCHITECT TO CHOOSE FROM MANUFACTURER FULL RANGE OF COLORS.

G3. INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED ON THE FINISH PLAN.

G4. ALL FLOOR FINISHES TO EXTEND BELOW ALL MILLWORK.

G5. CONTRACTOR TO PROVIDE TRANSITION STRIP AS SCHEDULED AT ALL FLOORING MATERIAL CHANGES NEEDING THRESHOLDS. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.L.F. BASED ON MATERIAL THICKNESS.

MILLWORK:

G1. PROVIDE CLEAR BEAD OF SILICONE OR CLEAR CAULK TO SEAL BETWEEN MILLWORK PIECES (IE: COUNTERTOP AND BACKSLASH) AND MILLWORK AND WALL (TYPICAL).

G2. MILLWORK FINISHES ON SHOP DRAWINGS MUST BE APPROVED BY ARCHITECT PRIOR TO PRODUCTION.

G3. USE RICHELIEU CONTEMPORARY METAL PULL-305 IN STAINLESS STEEL FINISH FOR ALL MILLWORK. REFER TO A2-500'S FOR EXACT SIZES.

G4. CABINET DOORS ARE TO BE FINISHED WITH PLASTIC LAMINATE ON BOTH SIDES.

G5. ALL BUILT CABINETS TO RECEIVE PVC EDGE BANDING. SEE FINISH SCHEDULE FOR EXACT DETAILS.

BASE:

G1. PROVIDE A COVED STYLE RUBBER BASE WHERE RESILIENT FLOORING AND CARPET IS SPECIFIED UNLESS OTHERWISE NOTED IN THE WRITTEN FINISH SCHEDULE.

G2. WHERE 4" TILE BASE IS LOCATED, USE L-CHANNEL CAP TO FINISH THE TOP OF TILE AS DETAILED IN THE FINISH SCHEDULE.

G3. PROVIDE A FLASH COVED STYLE BASE WHERE ALL SHEET FLOORING IS SPECIFIED UNLESS OTHERWISE NOTED IN THE DRAWINGS.

TRIM:

G1. ALL WOOD BASE & ELEMENTS THROUGHOUT THE SPACE TO BE MAPLE AND STAINED TO MATCH SAMPLE PROVIDED BY ARCHITECT (ST-1)

OUTLETS:

G1. ALL PLATE COLORS AND RECEPTACLES TO BE WHITE.

SIGNAGE:

G1. SIGNAGE LOCATIONS WILL NEED TO BE PROVIDED AND INSTALLED BY CONTRACTOR. TO BE SELECTED AND APPROVED BY THE ARCHITECT AND CLIENT PRIOR TO PURCHASE.

JANITORIAL:

G1. FRP-1 TO BE INSTALLED UP TO 48" A.F.F. WITH SPECIFIED PAINT ABOVE.

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Amherst, NY

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SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. G.Tomsic DRAFTER _____
JOB CAPT. J.Somers INTERIORS _____

SEAL:

TITLE:

FINISH SCHEDULE



SILVESTRI
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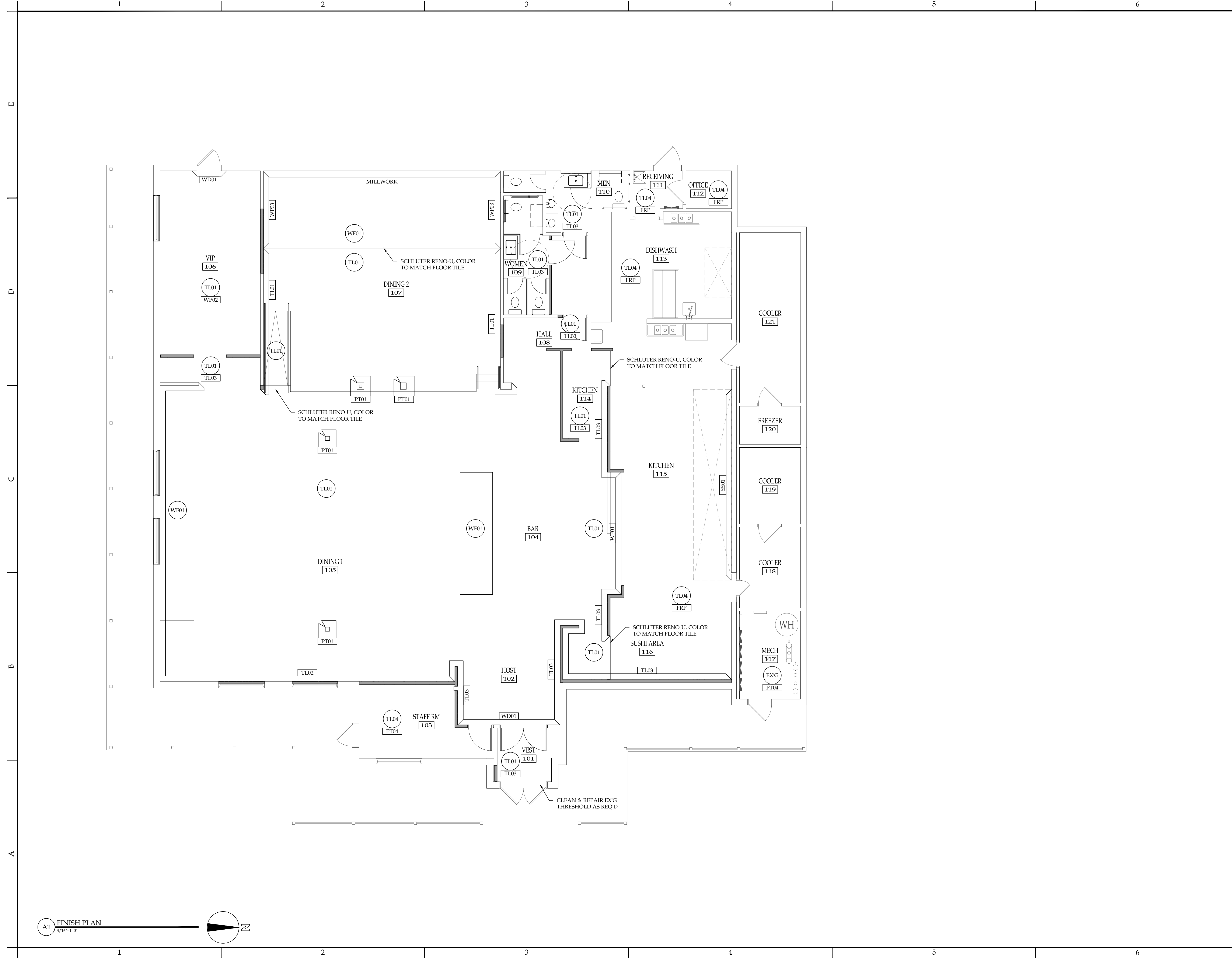
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DRAWING #:

A-602



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TITLE:

FINISH PLAN

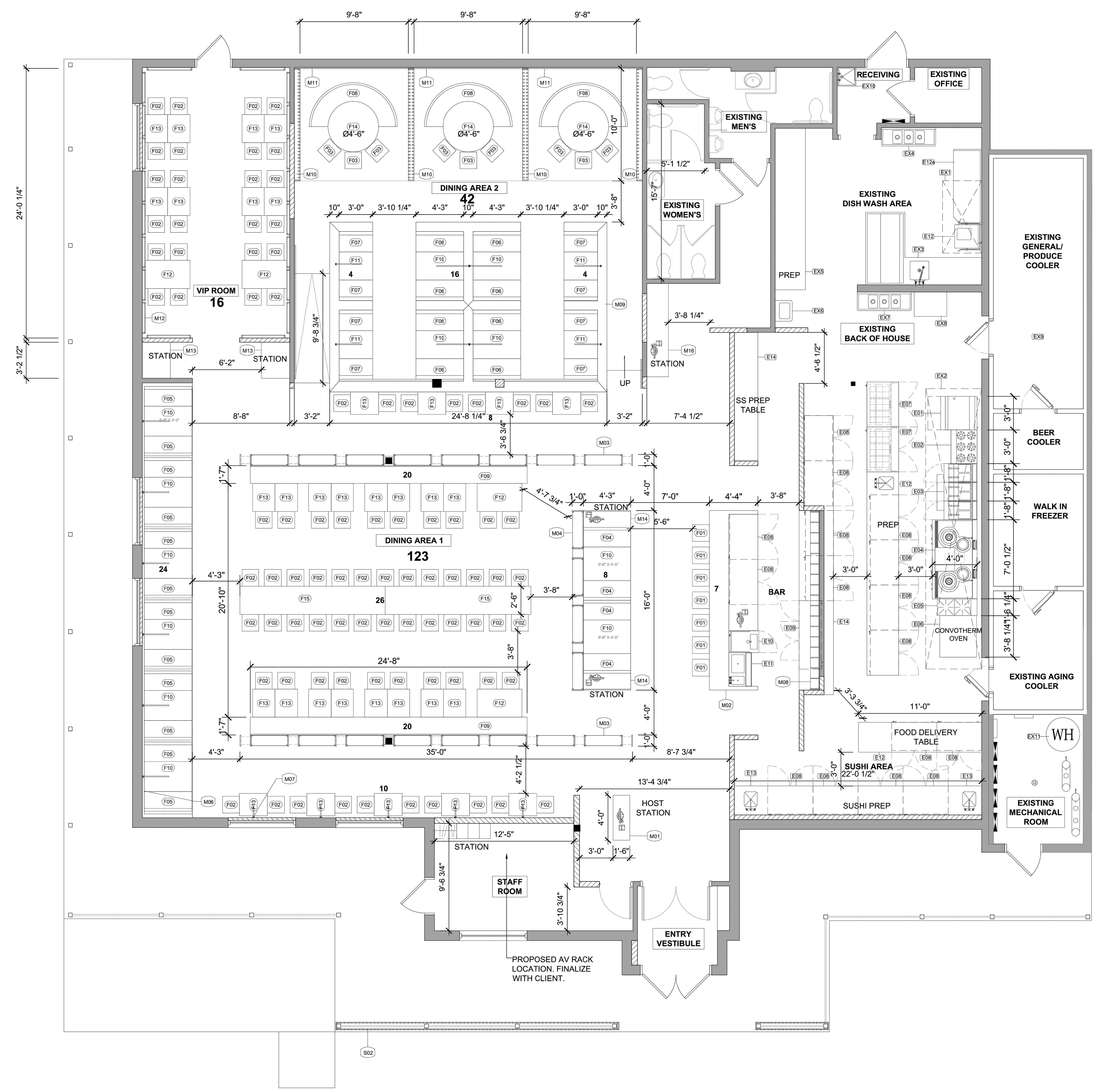


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DRAWING #: A-603



EXISTING EQUIPMENT LIST		NEW EQUIPMENT LIST	
CODE	DESCRIPTION	CODE	DESCRIPTION
E01	HOOD AT KITCHEN AREA	E01	FLAT TOP GRILL
E02	HOOD AT DISH WASH AREA	E02	6 BURNER
E03	STAINLESS STEEL WORK TABLE W/ 1 SINK	E03	FRYER
E04	3 COMPARTMENT SINK	E04	WOKS
E05	STAINLESS STEEL WORK TABLE	E05	STOCK POT/DOUBLE RANGE
E06	HAND SINK	E06	OVEN
E07	3 COMPARTMENT SINK	E07	SALAD PREP COOLER
E08	ICE MACHINE	E08	UNDER COUNTER COOLER
E09	WALK IN COOLER & FREEZER	E09	BAR BACK COOLER
E10	MOP SINK	E10	DIRECT DRAW BEER DISPENSER
E11	HOT WATER TANK	E11	CUSTOM STAINLESS STEEL COCKTAIL UNIT
		E12	DISHWASHER
		E12a	CUSTOM STAINLESS STEEL DRANBOARD FOR DISHWASHER
		E13	CUSTOM STAINLESS STEEL PREP TABLE W/ HAND SINK C/W FAUCET
		E14	CUSTOM STAINLESS STEEL PREP TABLE

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SEAL:

TITLE:
EQUIPMENT, FURNITURE, & MILLWORK PLAN

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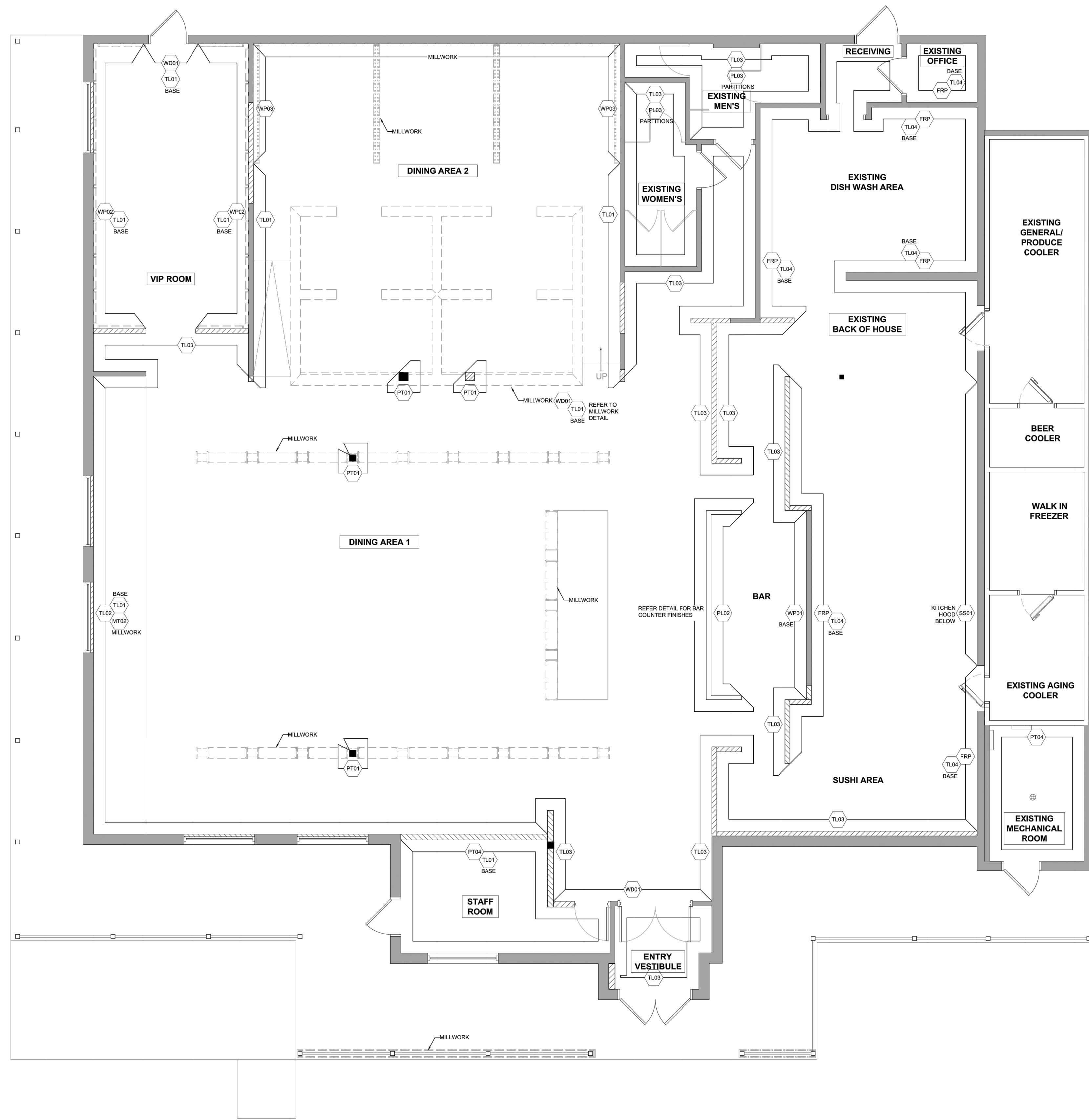
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TITLE:
WALL FINISH PLAN

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A1 WALL FINISH PLAN
 3/16" = 1'-0"



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TITLE:
FLOOR FINISH PLAN

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1 RENDERED VIEW
03.03 SCALE: NTS



2 RENDERED VIEW
03.03 SCALE: NTS



3 RENDERED VIEW
03.03 SCALE: NTS



4 RENDERED VIEW
03.03 SCALE: NTS

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RENDERING EXTERIOR

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DRAWING #: **ID3.0.0**



1 RENDERED VIEW
ID3.1.0 SCALE: NTS



2 RENDERED VIEW
ID3.1.0 SCALE: NTS



3 RENDERED VIEW
ID3.1.0 SCALE: NTS



4 RENDERED VIEW
ID3.1.0 SCALE: NTS

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DRAWING #: ID3.1.0

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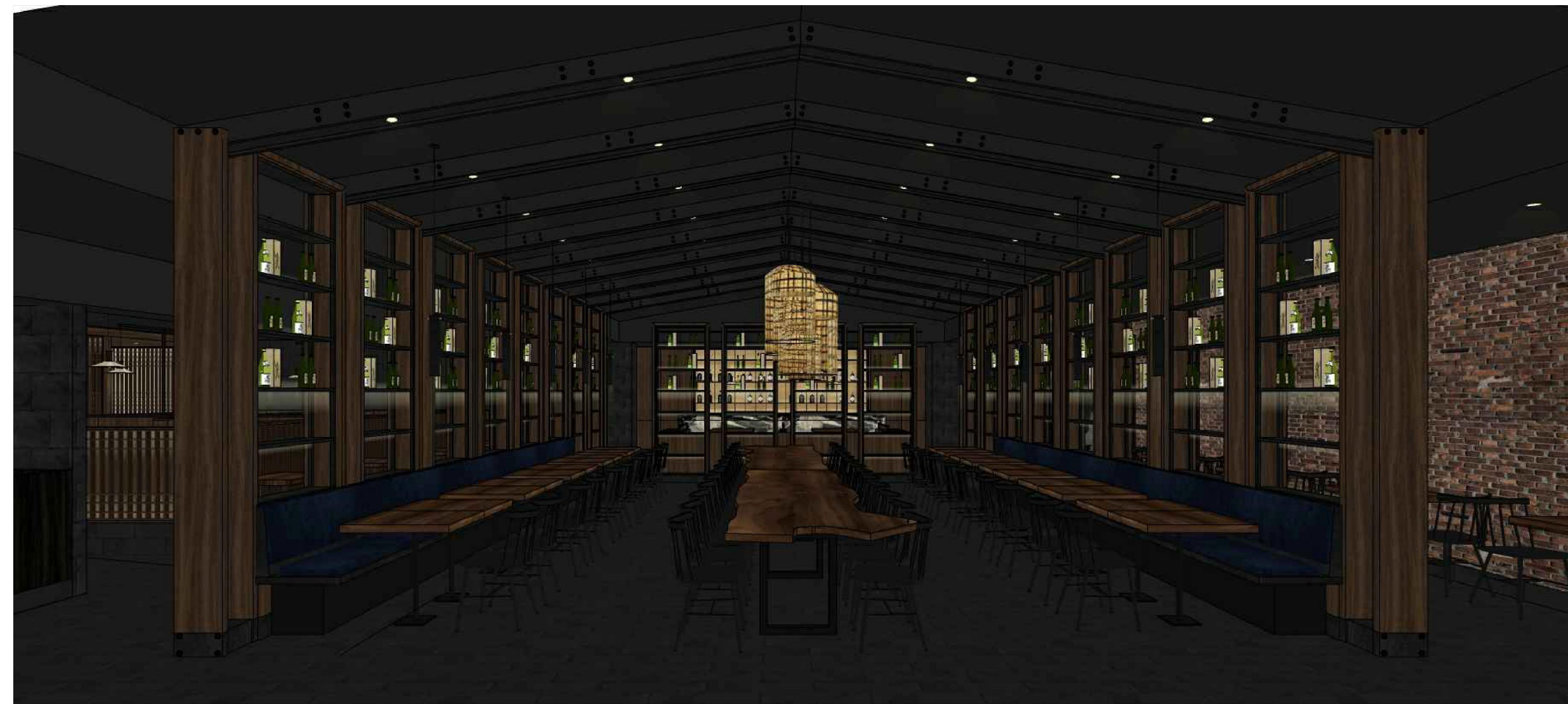
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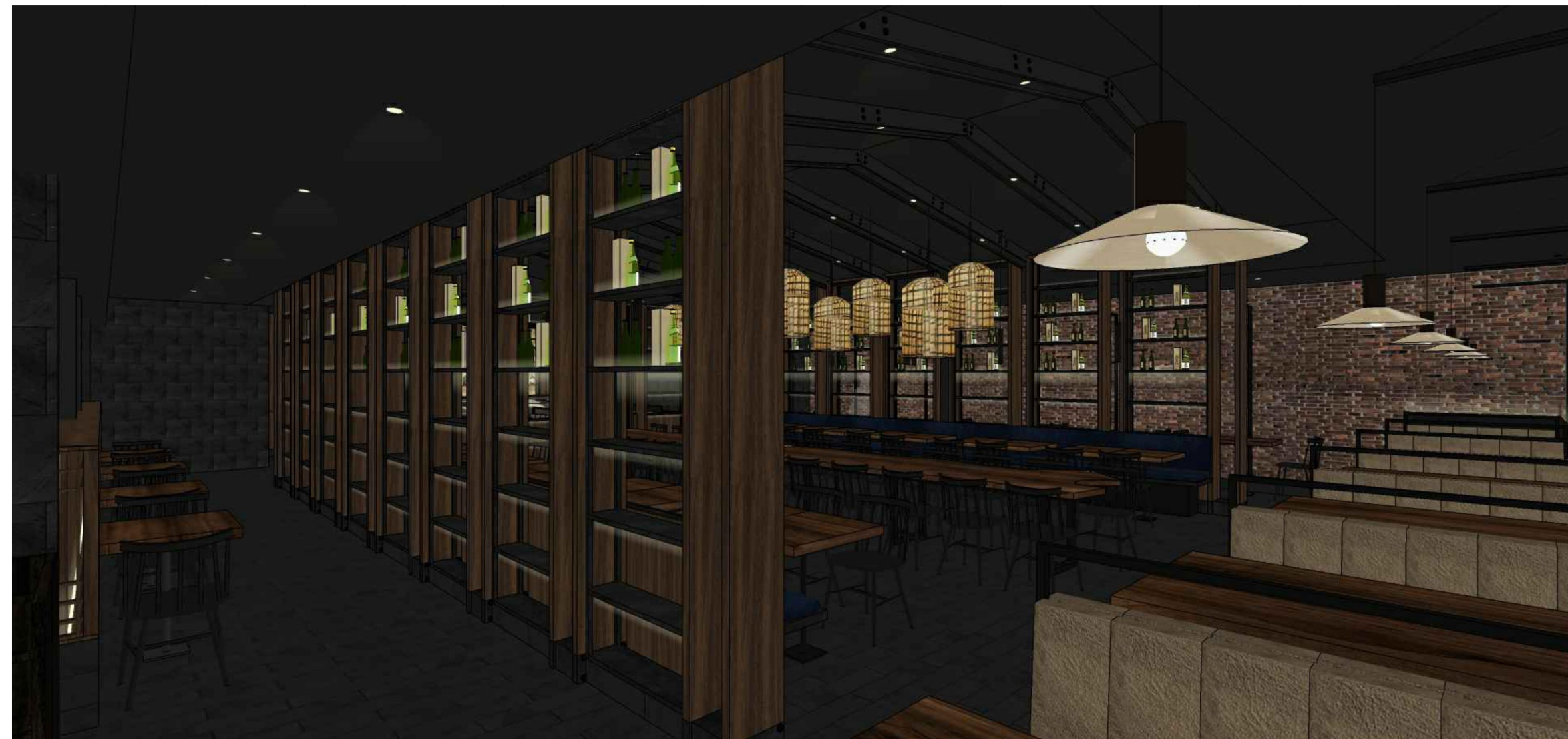
1 RENDERED VIEW
03.11 / SCALE: NTS



2 RENDERED VIEW
03.11 / SCALE: NTS



3 RENDERED VIEW
03.11 / SCALE: NTS



4 RENDERED VIEW
03.11 / SCALE: NTS



5 RENDERED VIEW
03.11 / SCALE: NTS



6 RENDERED VIEW
03.11 / SCALE: NTS

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Renovation**

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ISSUE:

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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:

**RENDERING
INTERIOR**

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DRAWING #: **ID3.1.1**



1 RENDERED VIEW
03.12 / SCALE: NTS



2 RENDERED VIEW
03.12 / SCALE: NTS



3 RENDERED VIEW
03.12 / SCALE: NTS



4 RENDERED VIEW
03.12 / SCALE: NTS

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 7566 Transit Rd.
 Amherst, NY

ISSUE:

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 PROJ. ARCH. _____ DRAFTER _____
 JOB CAPT. _____ INTERIORS _____

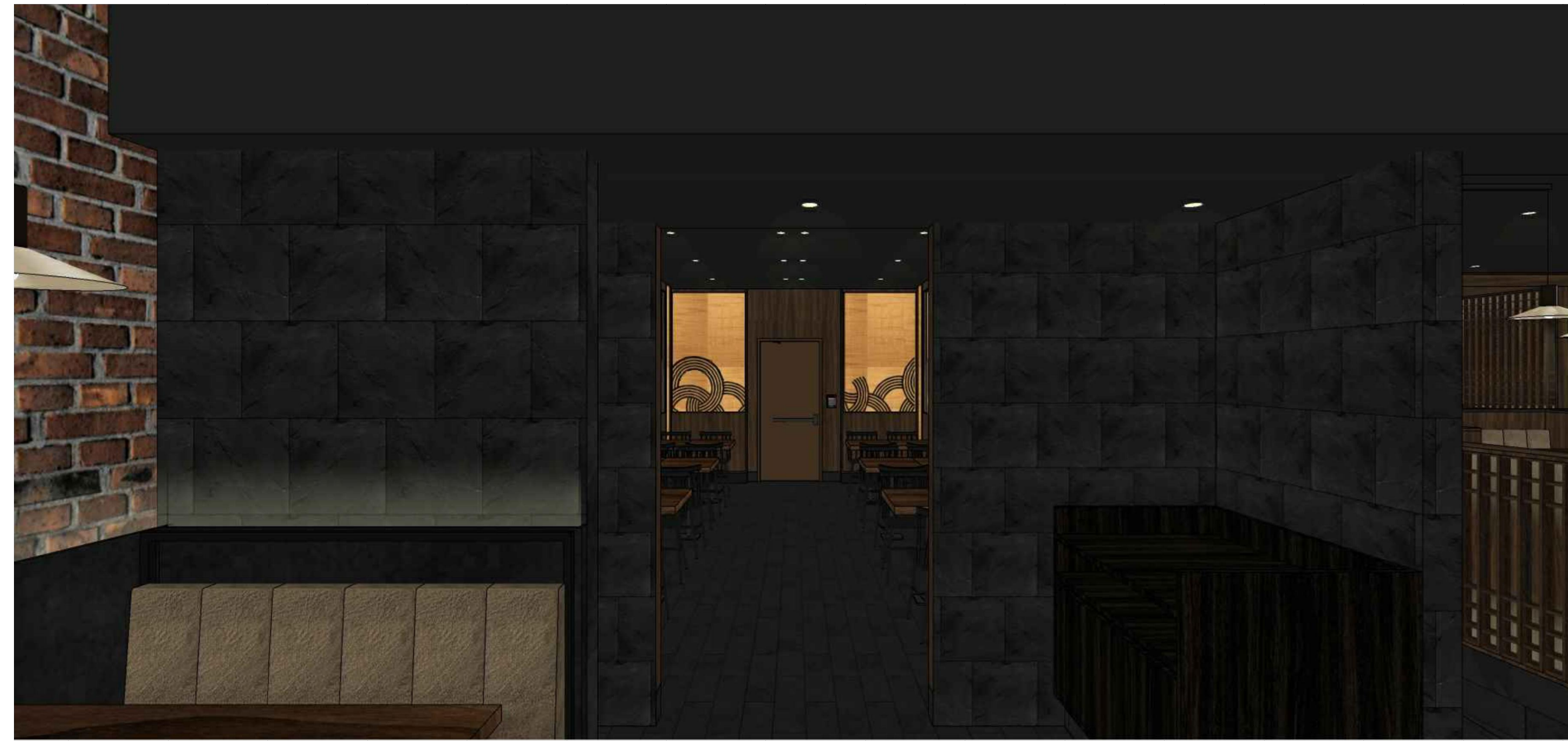
SEAL:

TITLE:
RENDERING INTERIOR

SW
SILVESTRI ARCHITECTS · PC
 1321 MILLERSPORT HWY PH. 716.691.0900
 AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: **ID3.1.2**

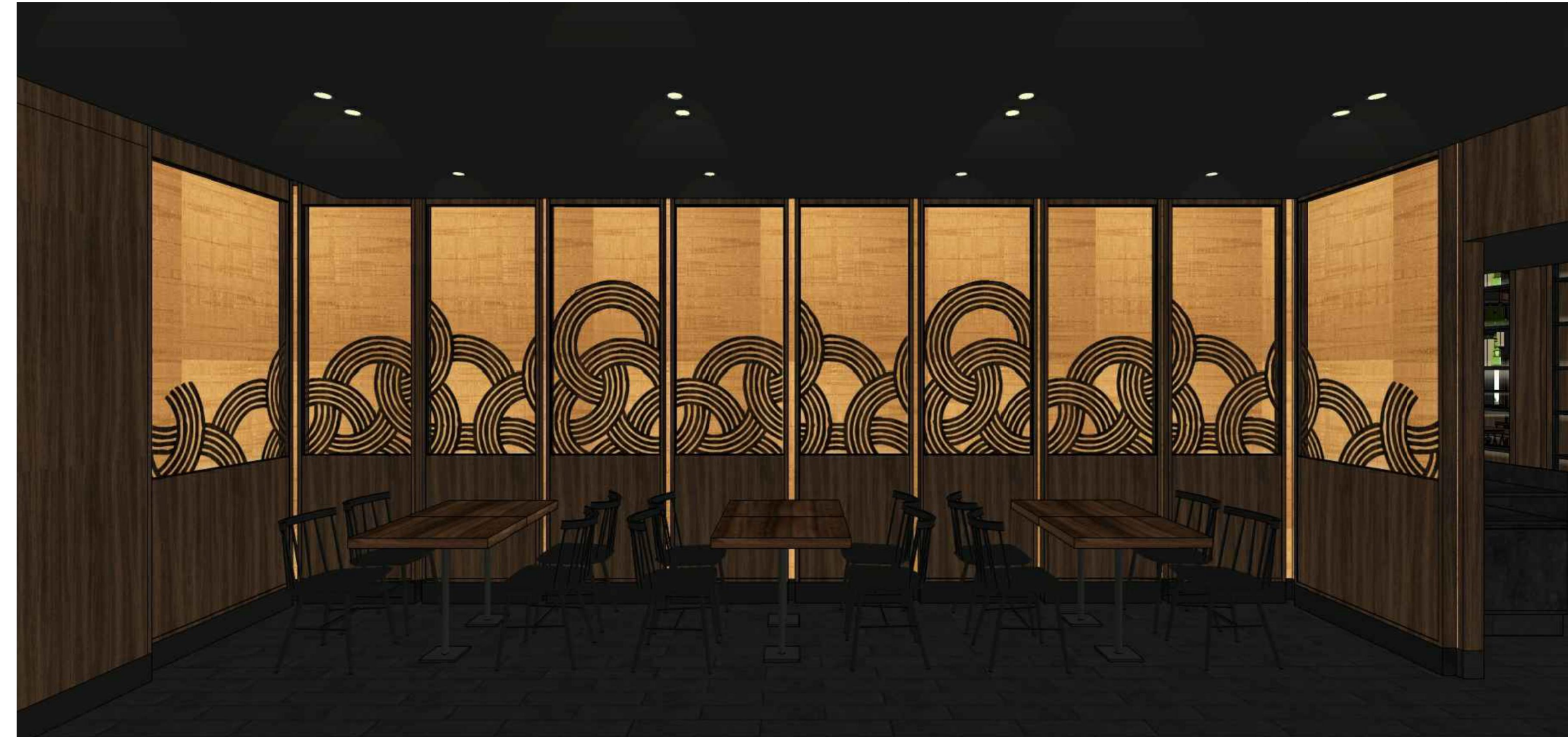


1 RENDERED VIEW
ID3.1.3 SCALE: NTS

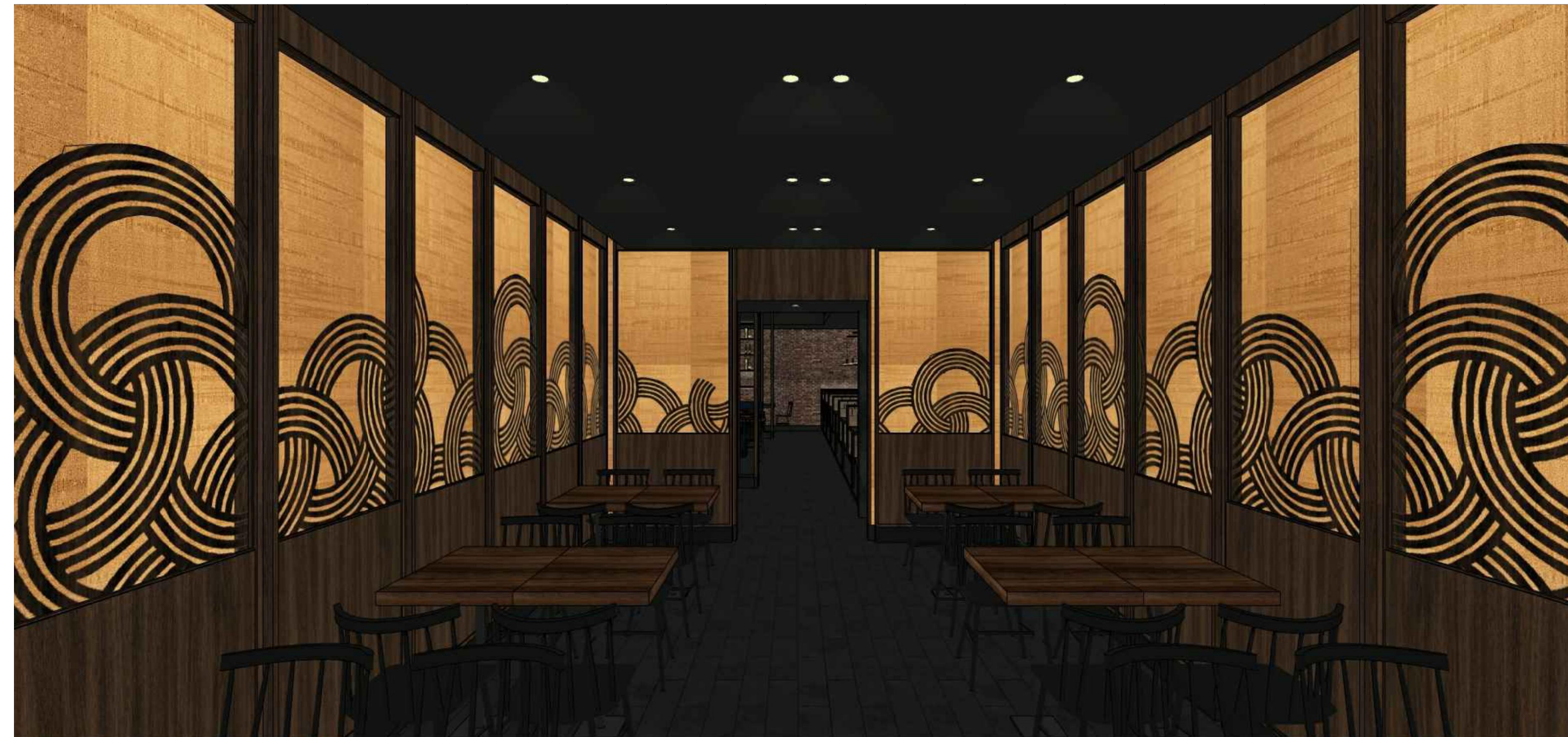
2 RENDERED VIEW
ID3.1.3 SCALE: NTS



3 RENDERED VIEW
ID3.1.3 SCALE: NTS



4 RENDERED VIEW
ID3.1.3 SCALE: NTS



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SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: **ID3.1.3**

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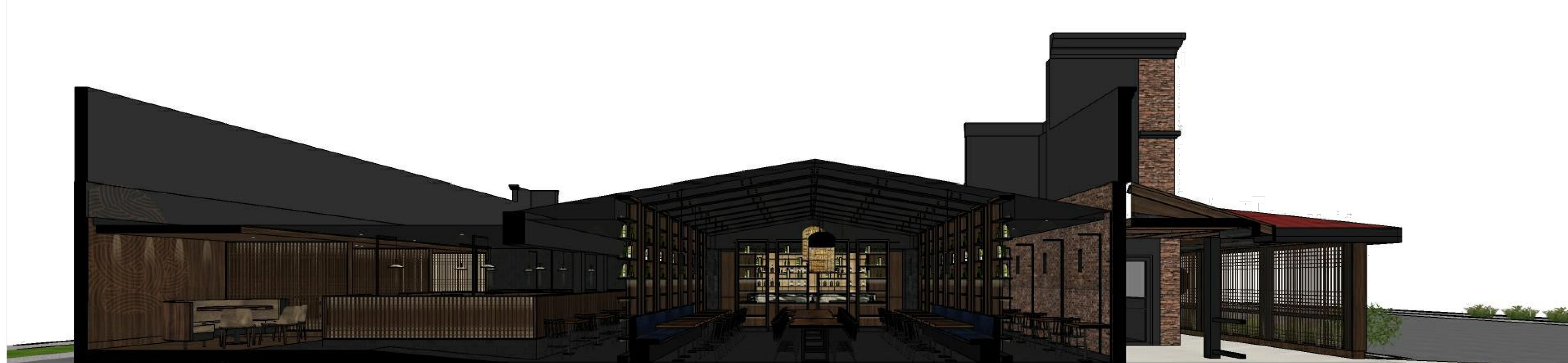
C

B

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1 RENDERED VIEW
 03.14 SCALE: NTS



2 RENDERED VIEW
 03.14 SCALE: NTS



3 RENDERED VIEW
 03.14 SCALE: NTS

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SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: ID3.1.4

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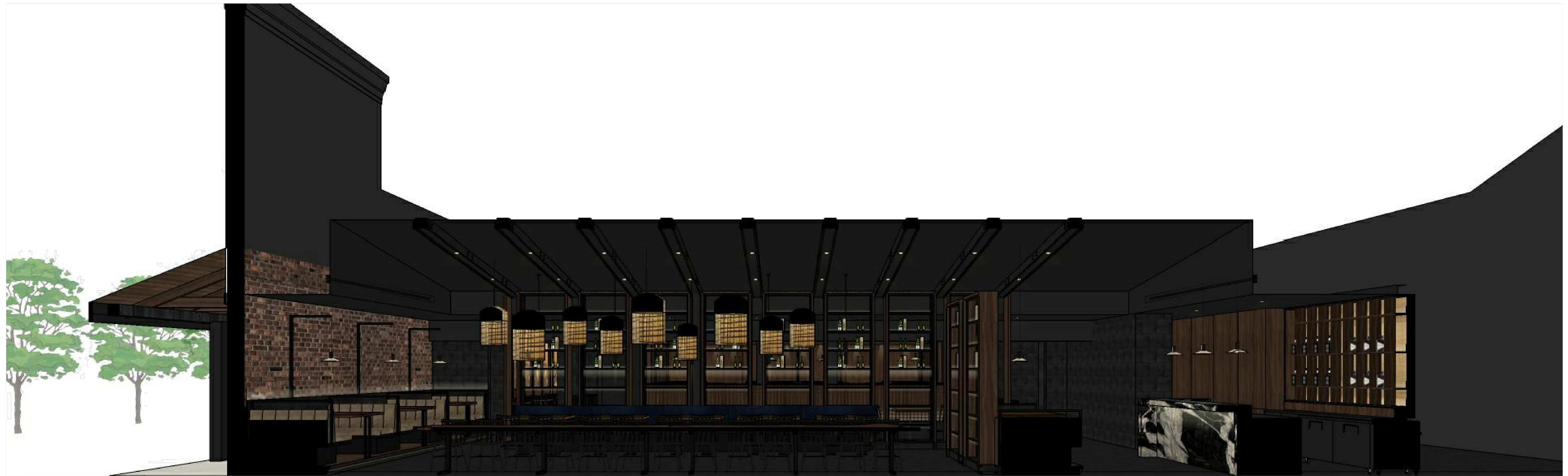
E

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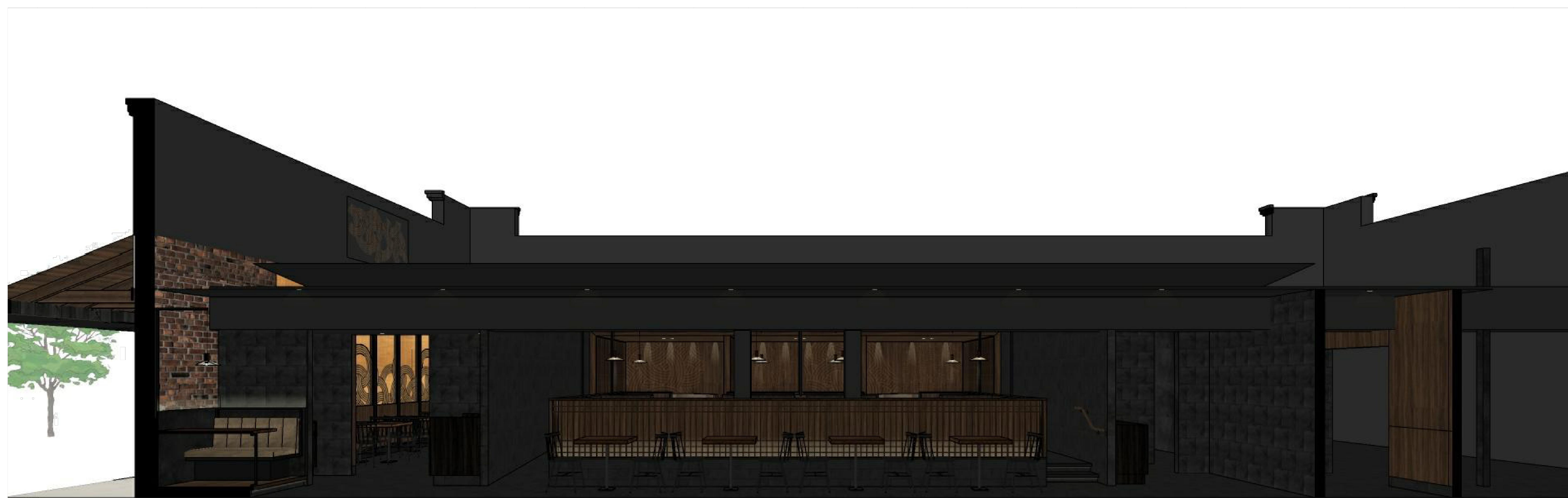
C

B

A



1 RENDERED VIEW
03.15 SCALE: NTS



2 RENDERED VIEW
03.14 SCALE: NTS

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SA JOB #: **15108.03** DATE: **04-03-20**

DRAWING #: **ID3.1.5**

1 2 3 4 5 6

E
D
C
B
A

RIDGE
@ ± 13'-3 1/2" AFF.
TOP OF SHELVINGS
@ ± 10'-11 1/2" AFF.
US OF DRYWALL CEILING
@ ± 9'-5" AFF.

FINISHED FLOOR
@ 0'-0" AFF.

1 INTERIOR SECTION
ID4.0 SCALE: 1/8" = 1'-0"



RIDGE
@ ± 13'-3 1/2" AFF.
TOP OF SHELVINGS
@ ± 10'-11 1/2" AFF.
US OF DRYWALL CEILING
@ ± 9'-5" AFF.

FINISHED FLOOR
@ 0'-0" AFF.

2 INTERIOR SECTION
ID4.0 SCALE: 1/8" = 1'-0"



1 2 3 4 5 6

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TITLE:

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SECTION**

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SA JOB #: 15108.03
DATE: 04-03-20

DRAWING #: **ID4.0.0**

RIDGE
@ ± 13'-3 1/2" AFF.
TOP OF SHELVINGS
@ ± 10'-11 1/2" AFF.
US OF DRYWALL CEILING
@ ± 9'-5" AFF.

FINISHED FLOOR
@ 0'-0" AFF.

U/S OF DRYWALL CEILING
@ ± 9'-5" AFF.
U/S OF BULKHEAD
@ ± 7'-9 1/2" AFF.

FINISHED FLOOR
@ 0'-0" AFF.

U/S OF DRYWALL CEILING
@ ± 13'-3 1/2" AFF.

U/S OF DRYWALL CEILING
@ ± 9'-5" AFF.
U/S OF BULKHEAD
@ 8'-6 1/2" AFF.

FINISHED FLOOR
@ 0'-0" AFF.



1 INTERIOR SECTION
ID4.1.0 SCALE: 1/8" = 1'-0"



2 INTERIOR SECTION
ID4.1.0 SCALE: 1/8" = 1'-0"



3 INTERIOR SECTION
ID4.1.0 SCALE: 1/8" = 1'-0"

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JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:

INTERIOR SECTION



SA JOB #: 15108.03
DATE: 04-03-20

DRAWING #: **ID4.1.0**

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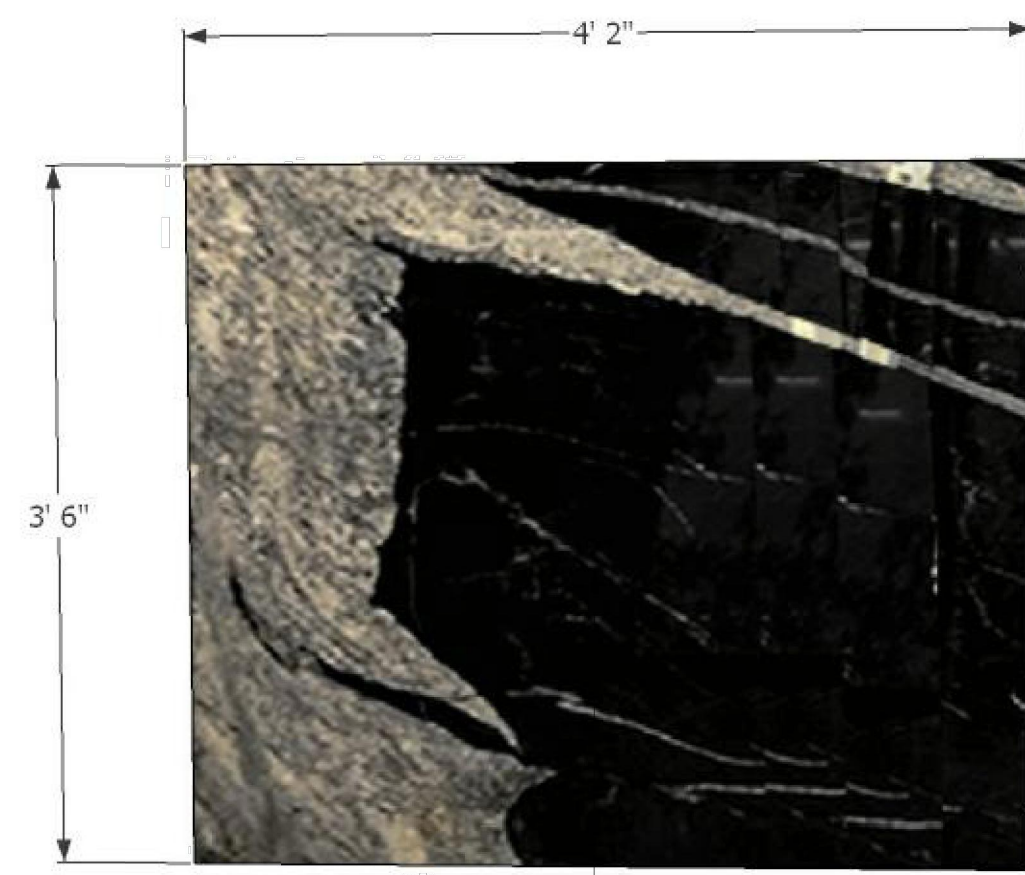
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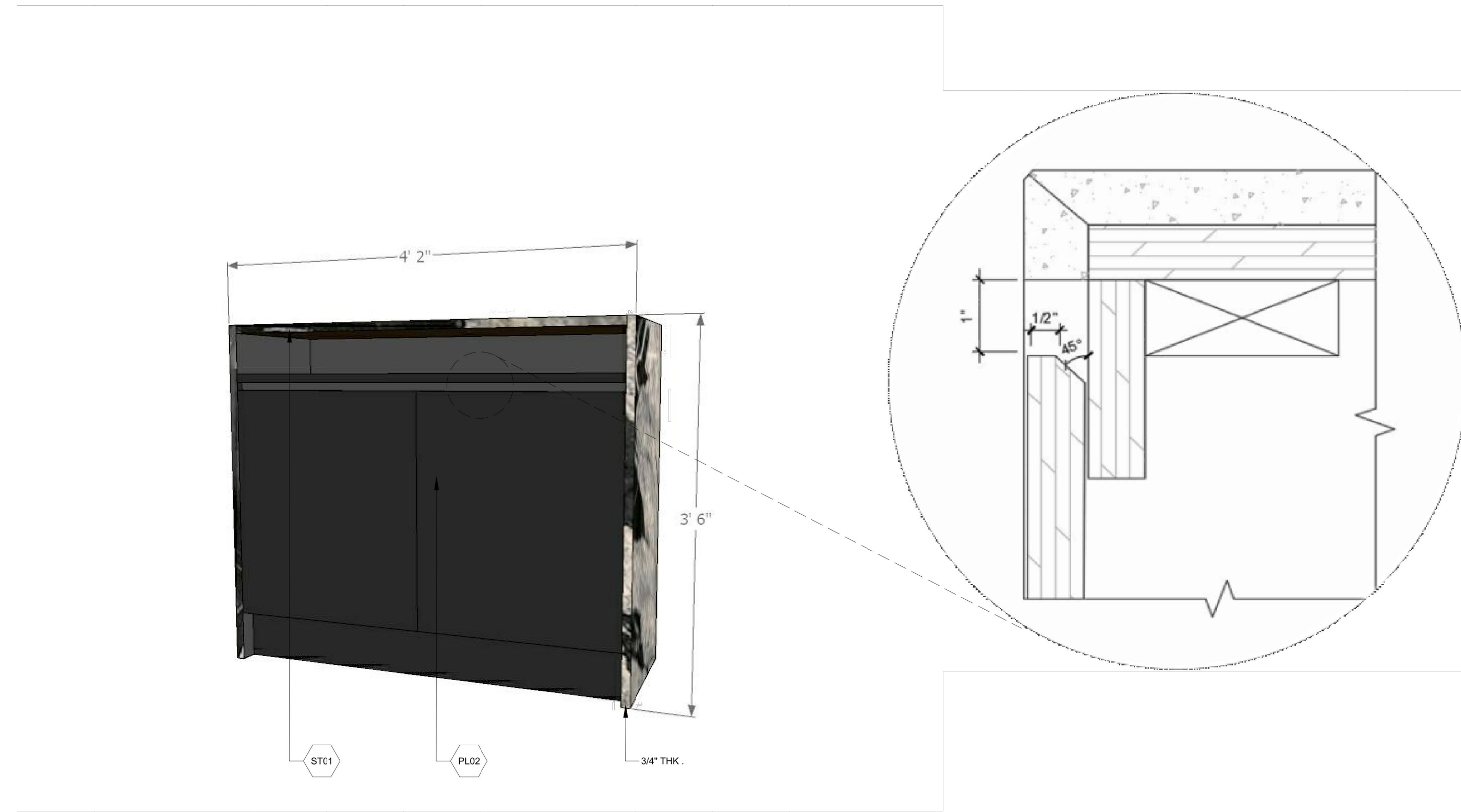
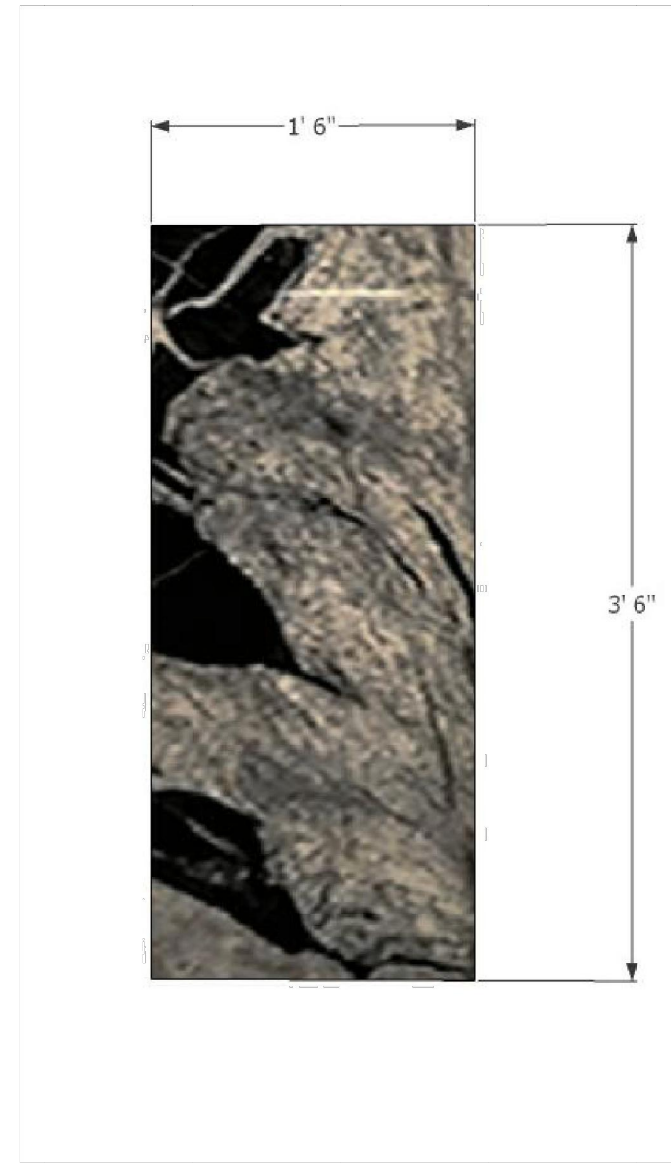
6

AT CORNERS TO BE 45°
SLAB TO HAVE CONTINUOUS MATCHING PATTERN



ST01

1 M01
DK 1.0 SCALE: NTS



ST01

PL02

3/4\"/>

REFER TO EQUIPMENT LOCATION AND VERIFY CABINET SIZE
WITH 3 ADJUSTABLE SHELVES.

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SEAL:

TITLE:

M01, M02



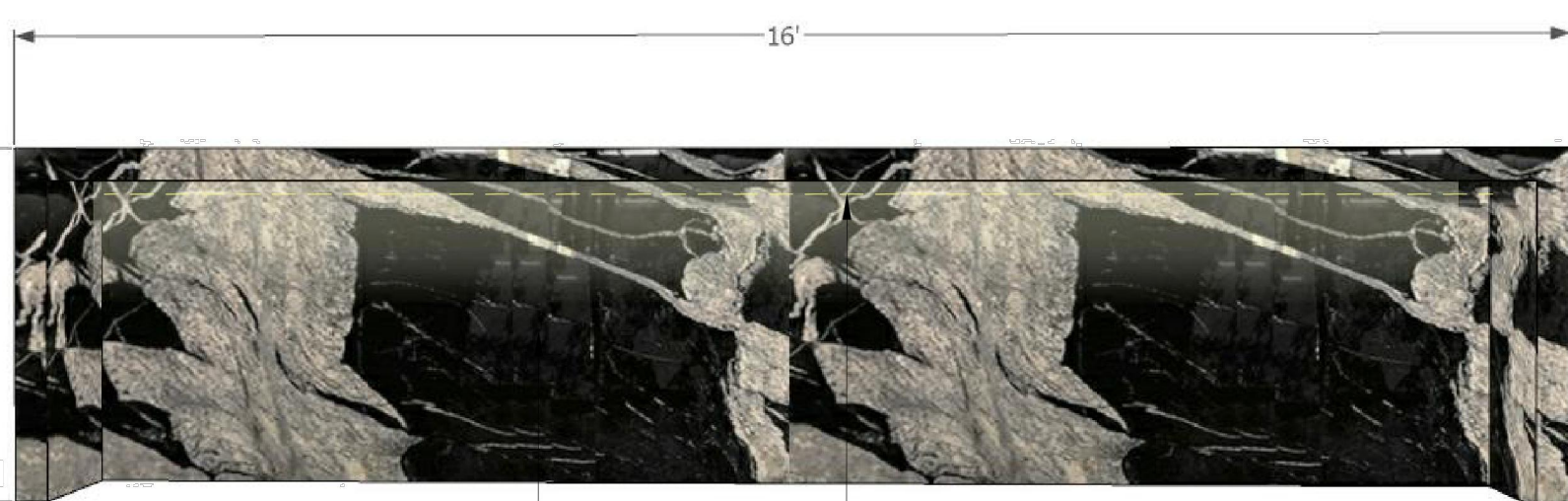
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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 15108.03
 DATE: 04-03-20

DRAWING #: ID6.1.0

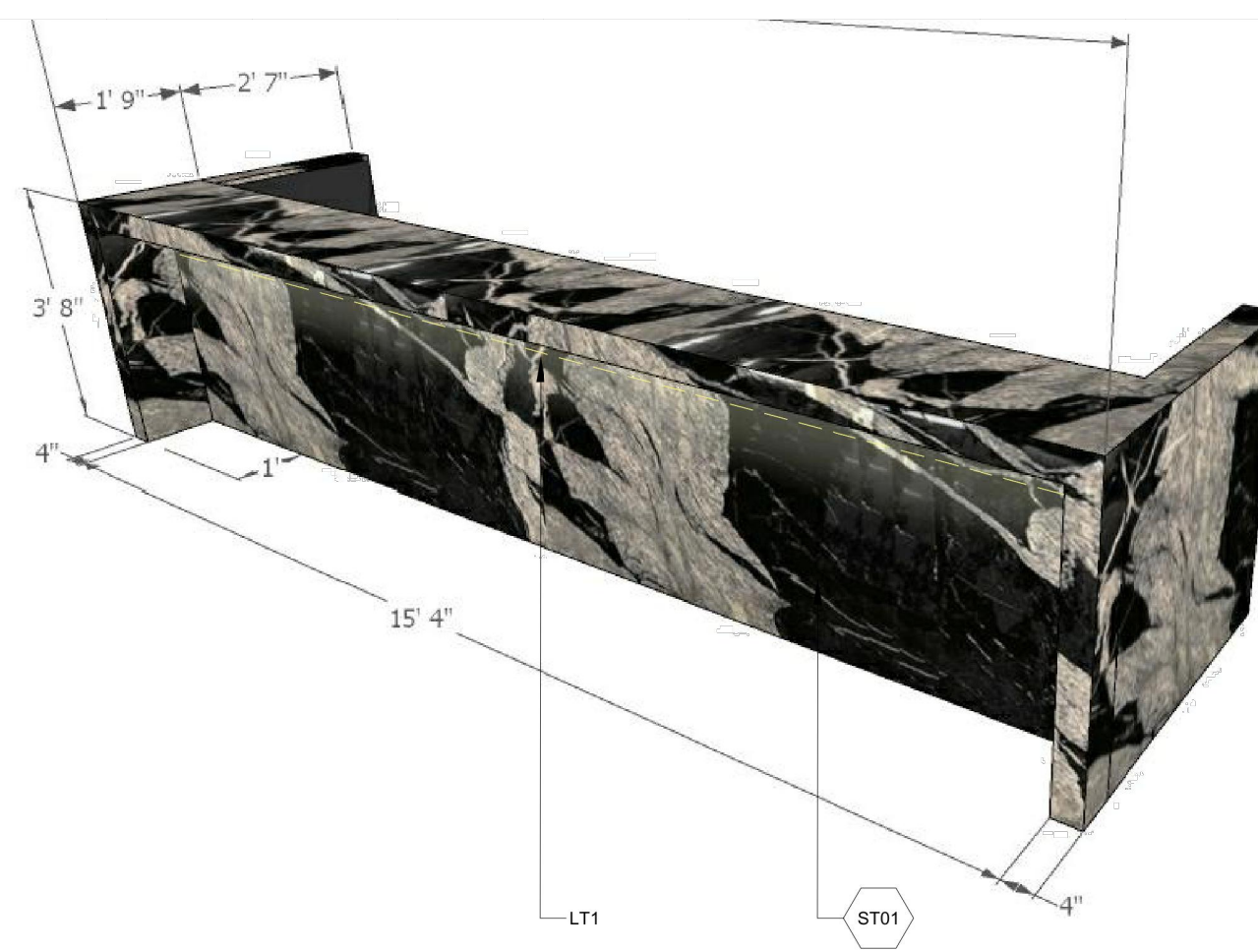
AT CORNERS TO BE 45°
SLAB TO HAVE CONTINUOUS MATCHING PATTERN



ST01

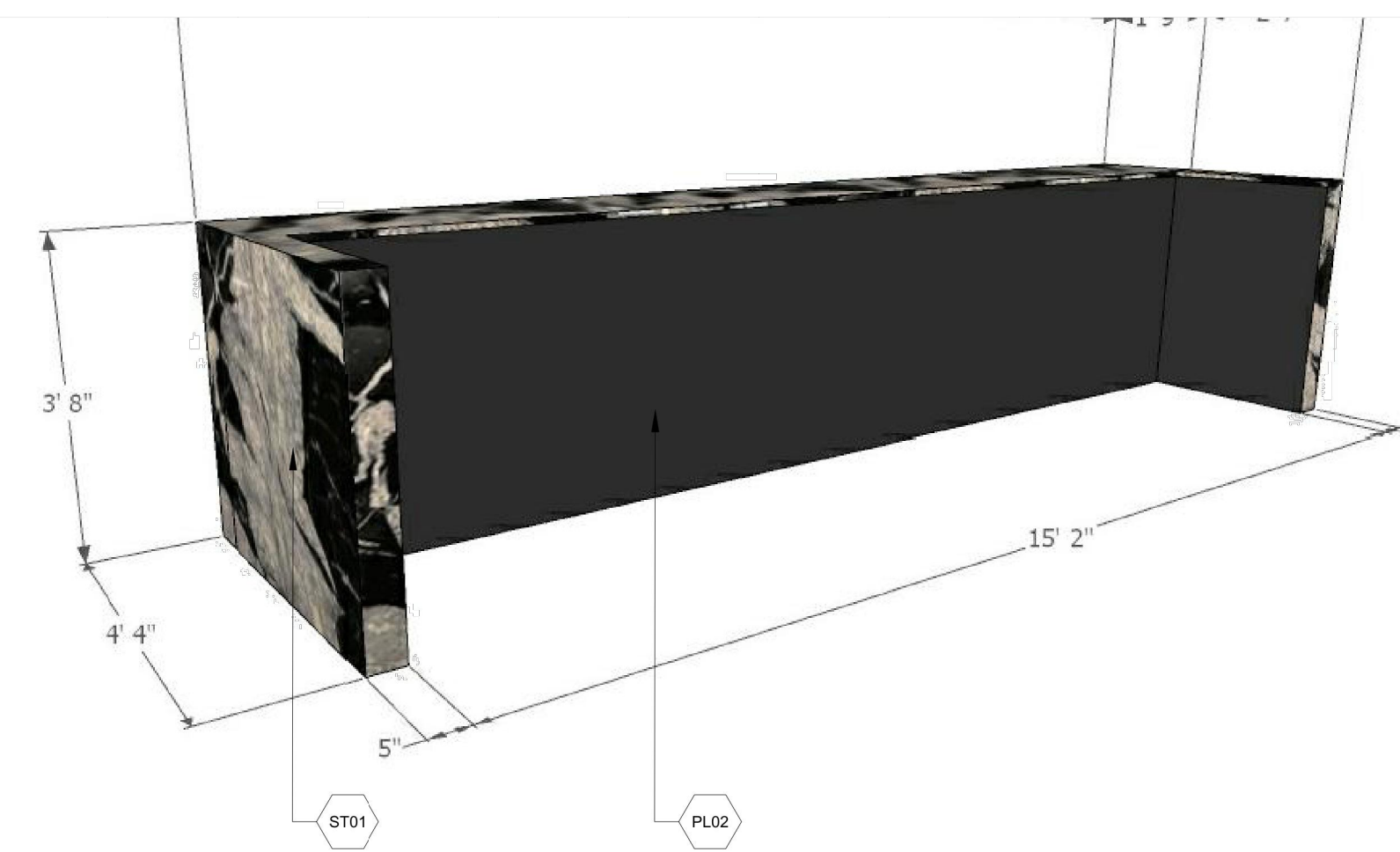
LT1

2 M01
DK 1.0 SCALE: NTS



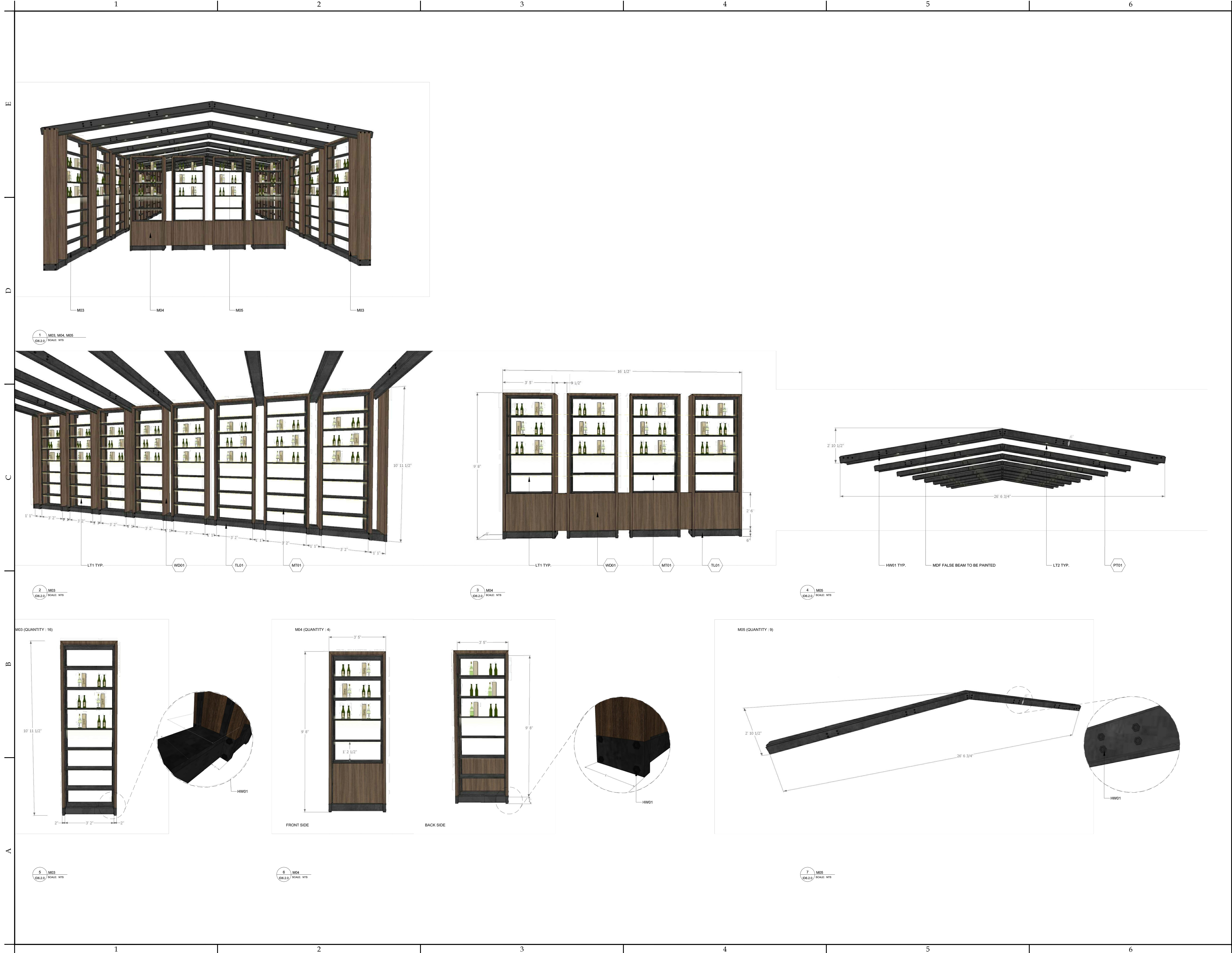
LT1

ST01



ST01

PL02



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SEAL:

TITLE:
 M03, M04, M05

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SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: ID6.2.0

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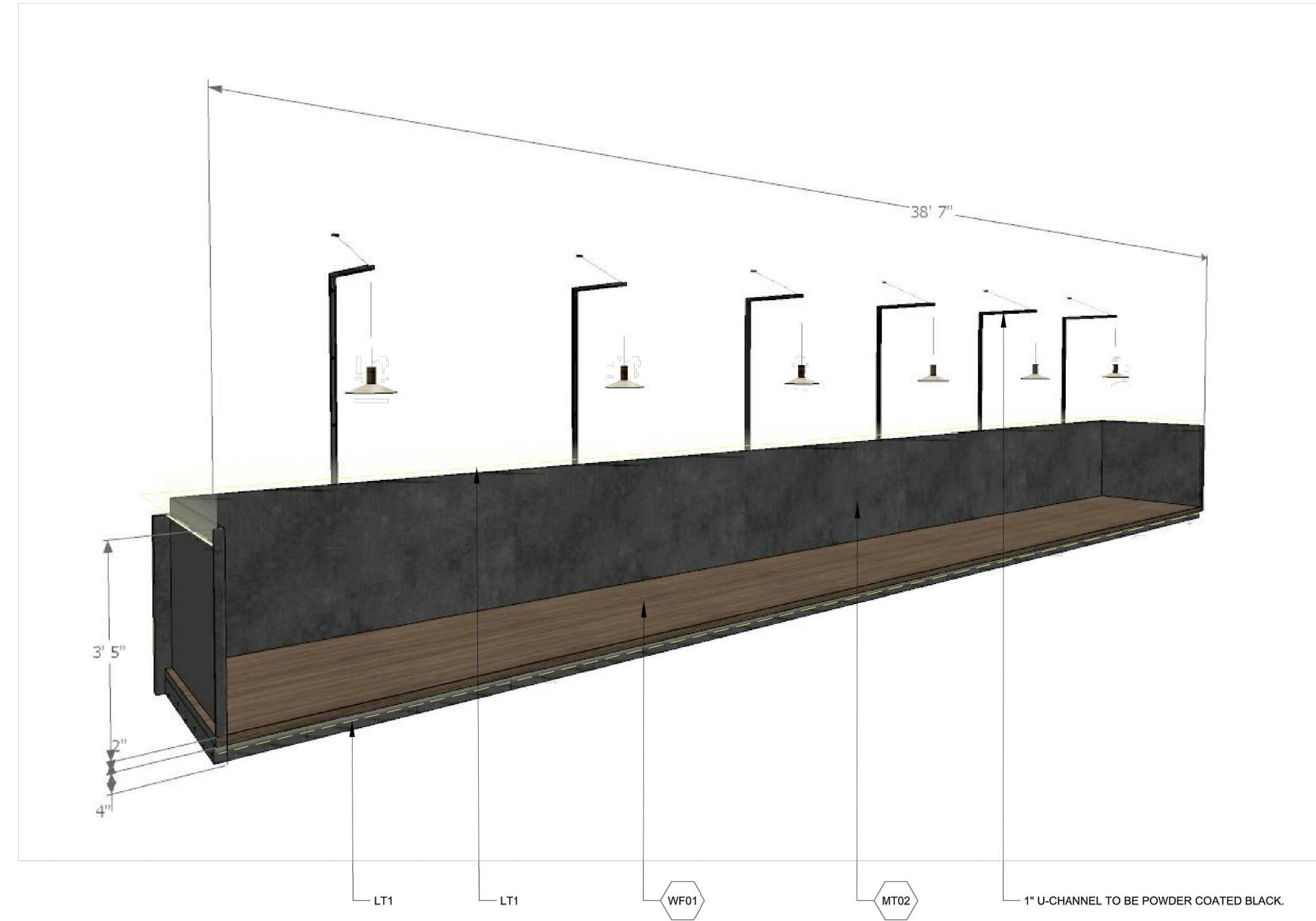
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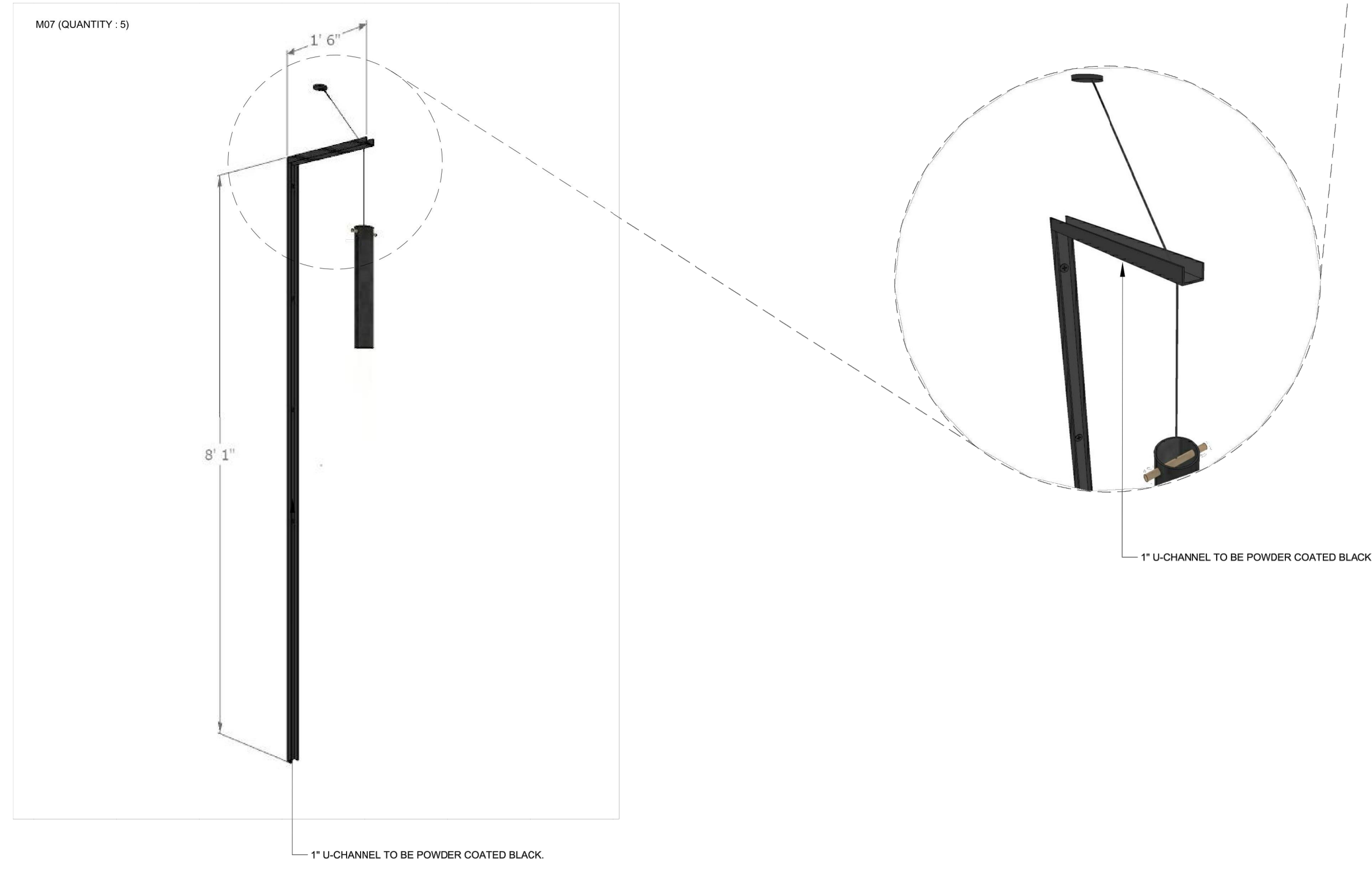
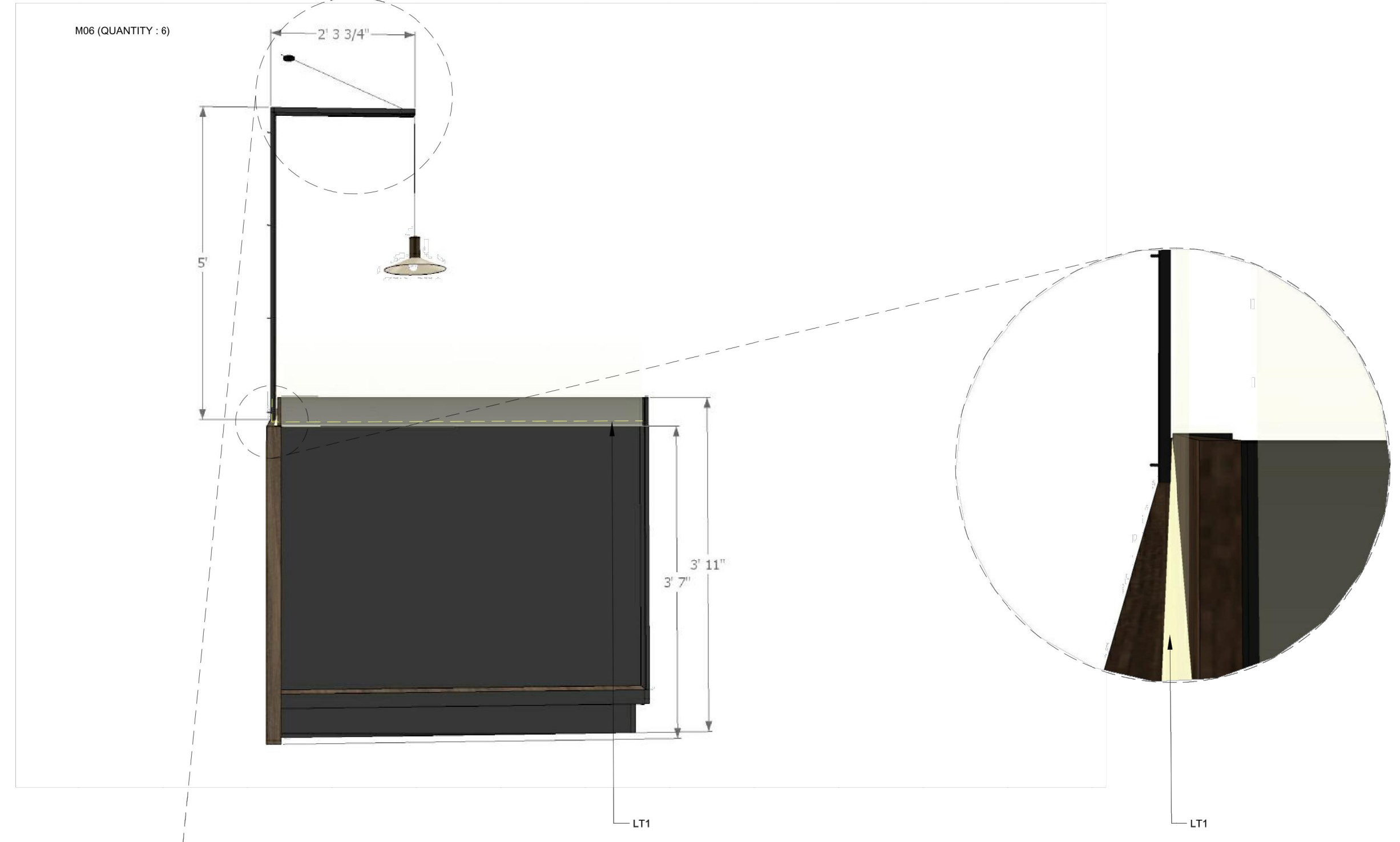
C

B

A



1 M06
DL3.0 - 04/03/20



2 M07
DL3.0 - 04/03/20

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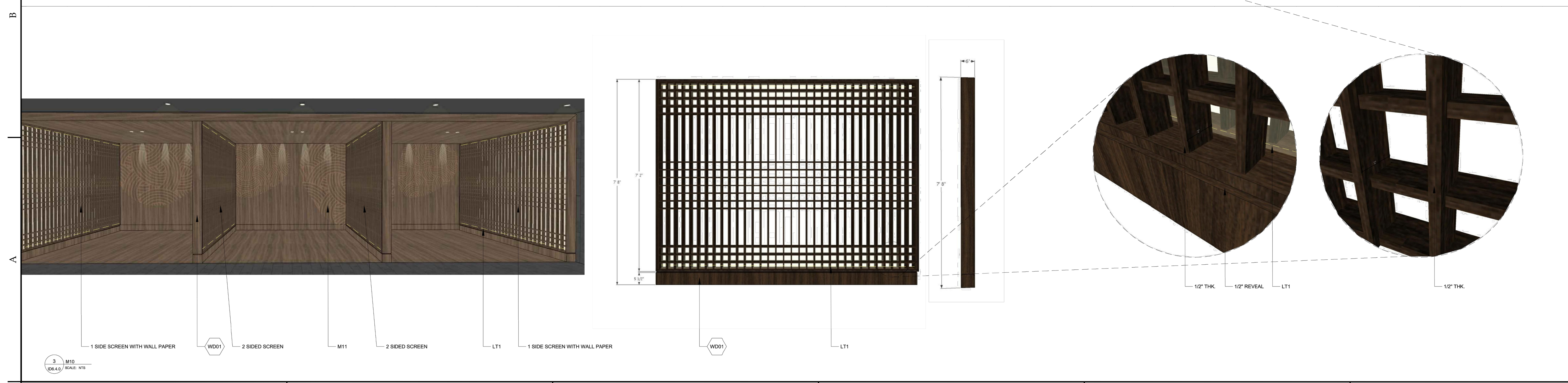
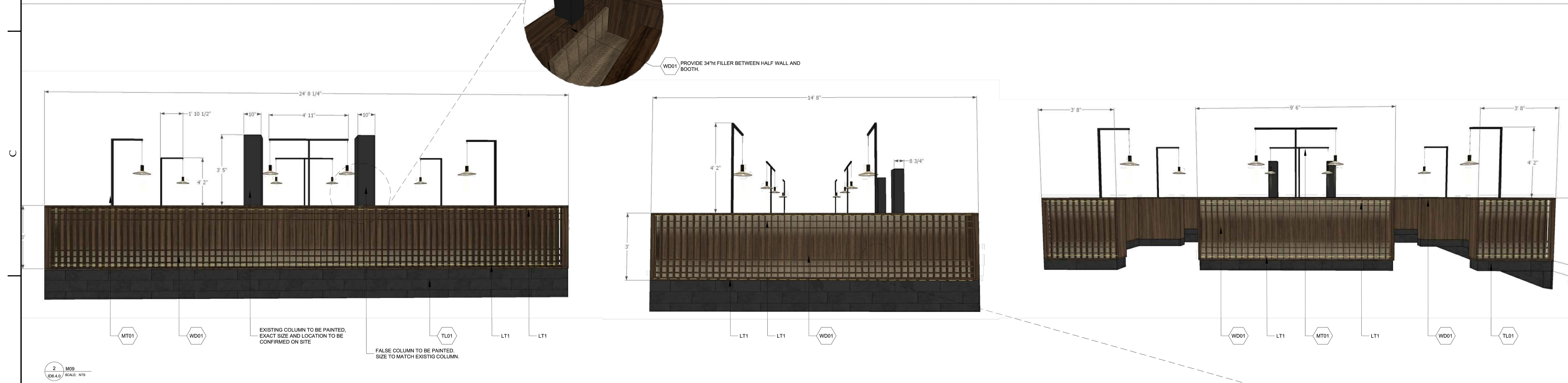
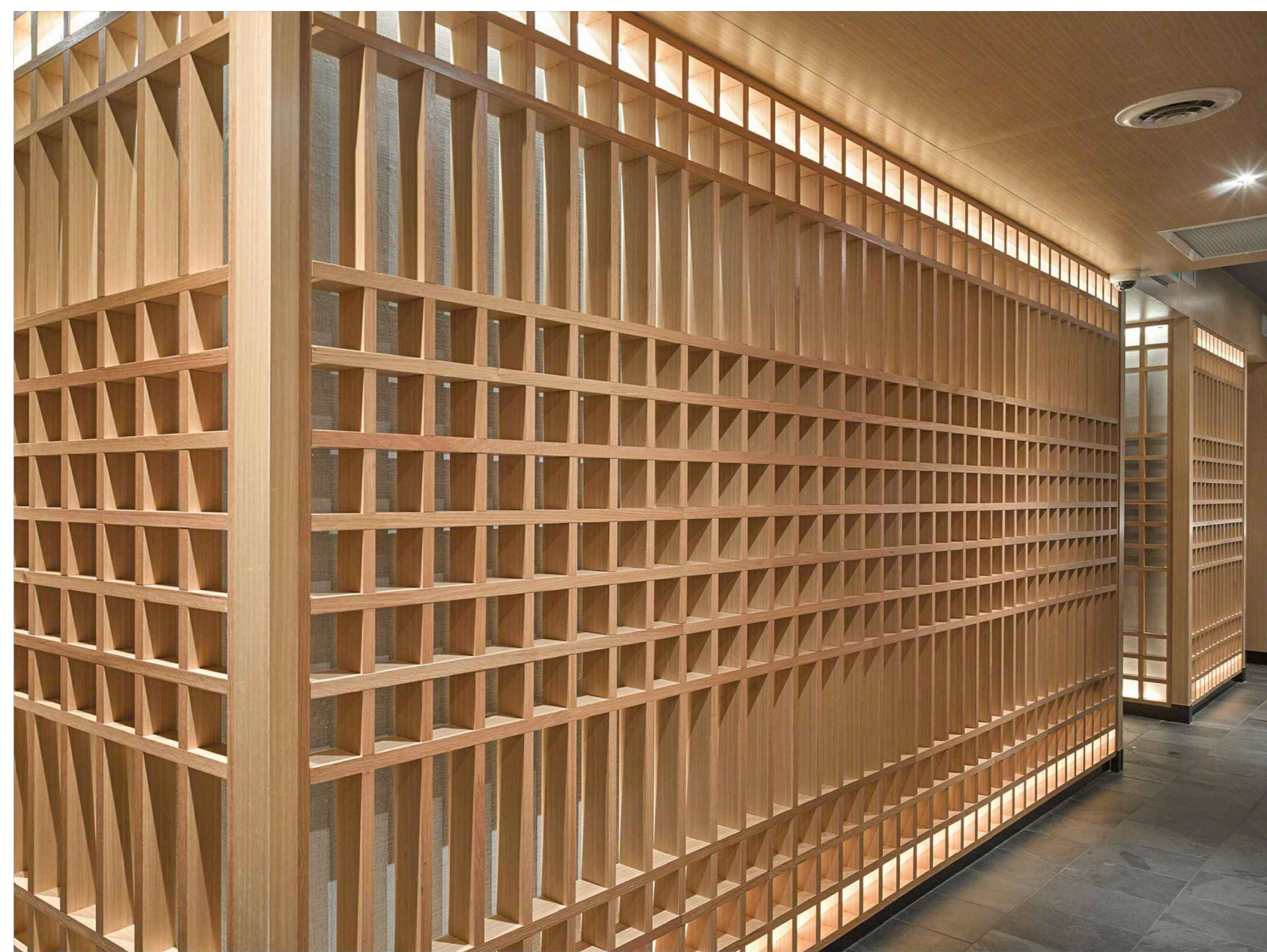
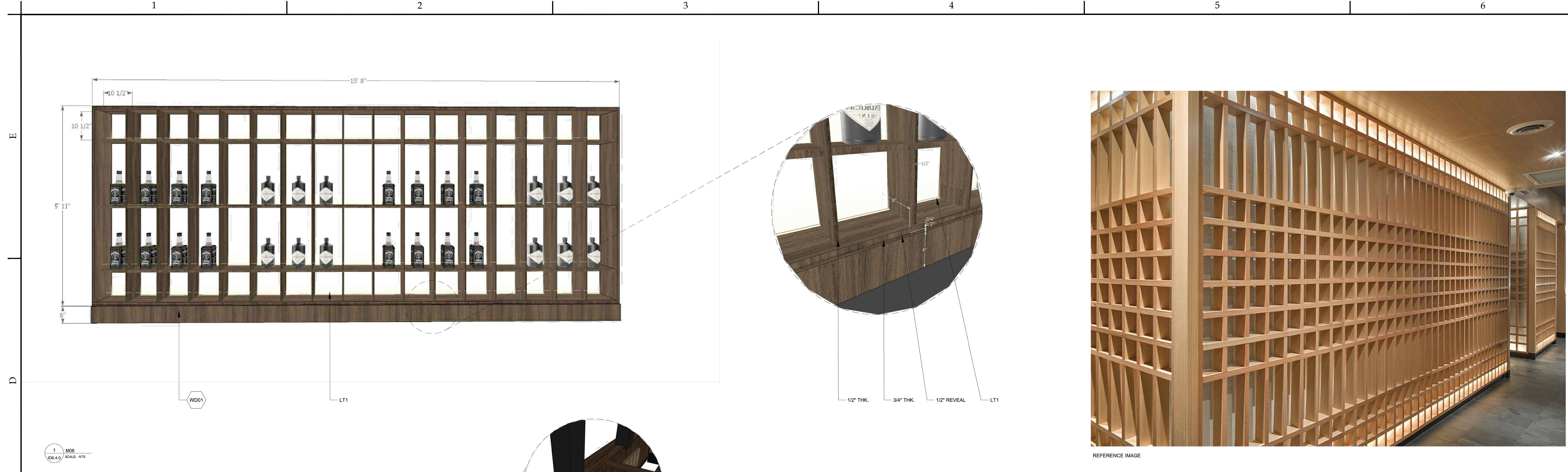
TITLE:

M06, M07

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 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
 M08, M09, M10



SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: ID6.4.0

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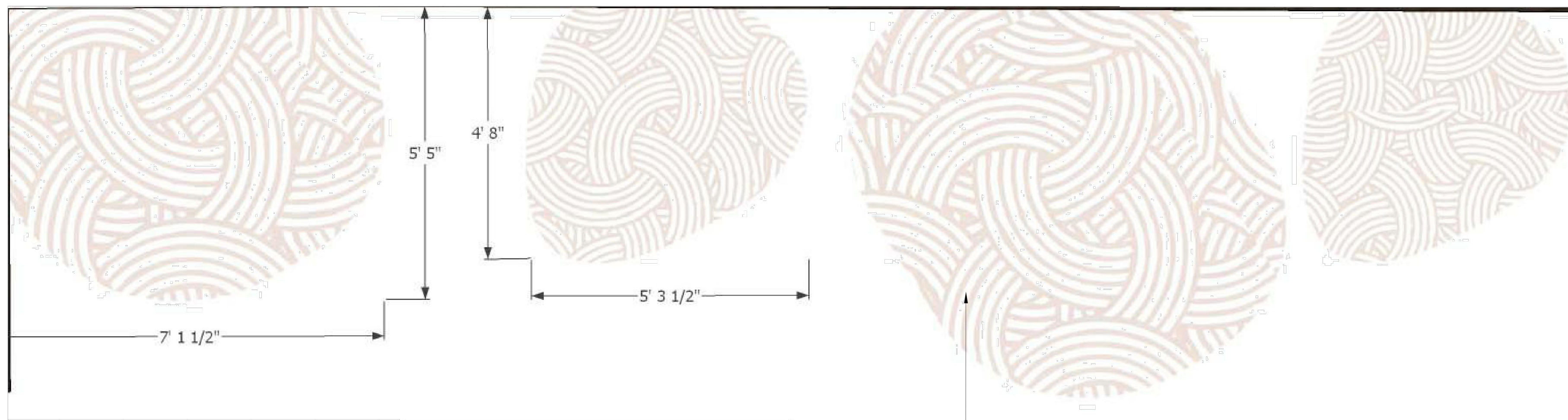
C

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GRAPHICS TO BE COMPUTER CUT STENSIL W/ 'GOLD' WOOD STAIN.



GRAPHICS TO BE COMPUTER CUT STENSIL W/ 'GOLD' WOOD STAIN.

1 M11
ID6.5.0 / SCALE: NTS

2 M11
ID6.5.0 / SCALE: NTS

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SEAL:

TITLE:

M11



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SEAL:

TITLE:

M12

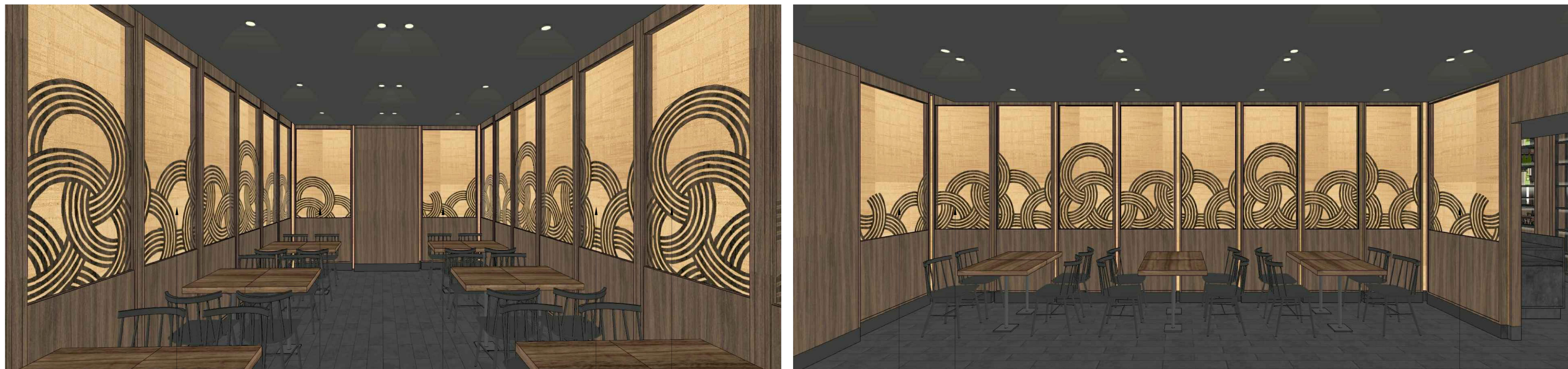


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DRAWING #: ID6.6.0



M12a M12b M12c M12d M12e M12f
 PATTERN TO BE COMPUTER CUT 3/4" THK. BROOKLINE VENEER MDF.
 AT EDGES TO BE PAINTED DARK BROWN.

1 M12
 DR.6.0 SCALE: 1/8"

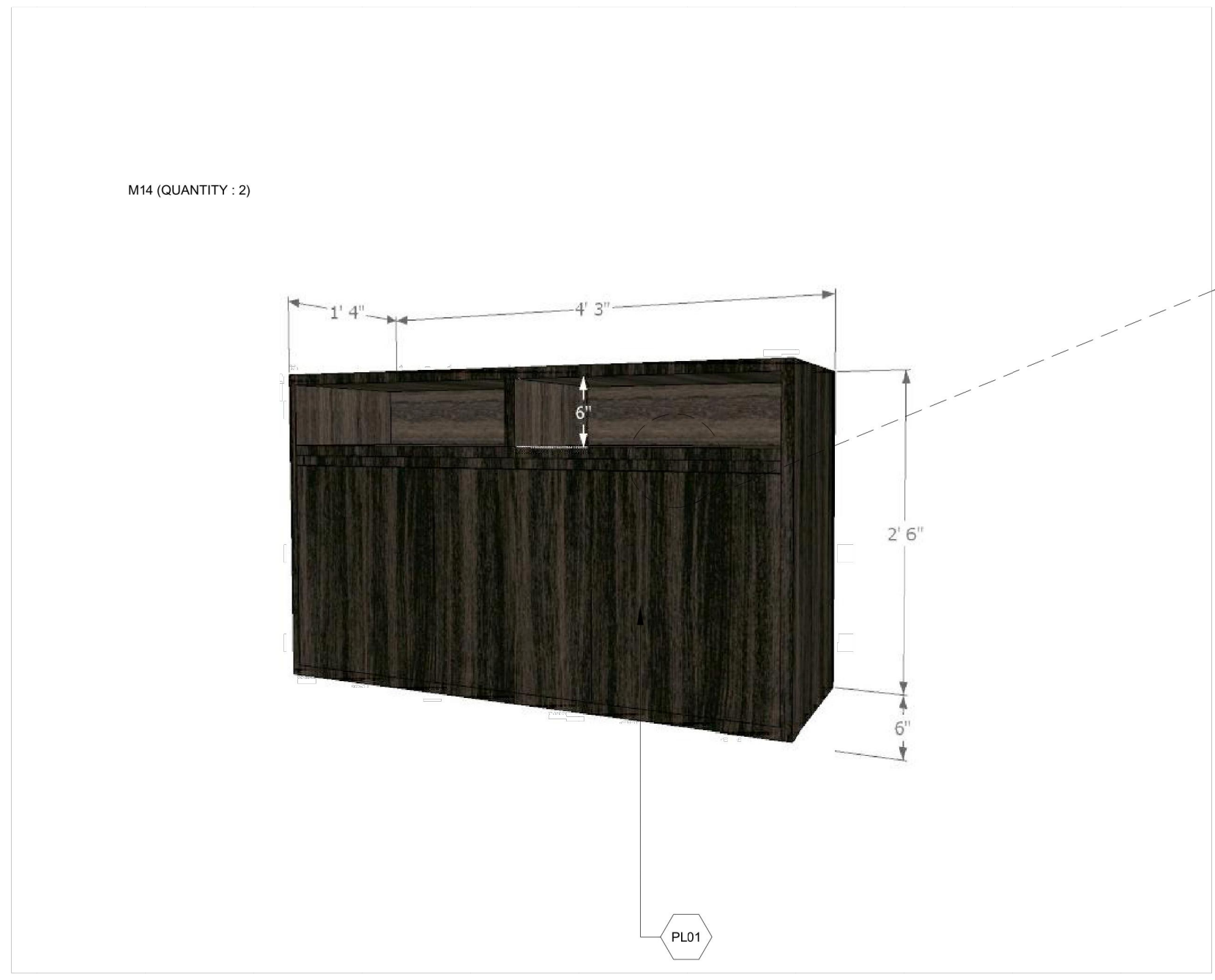
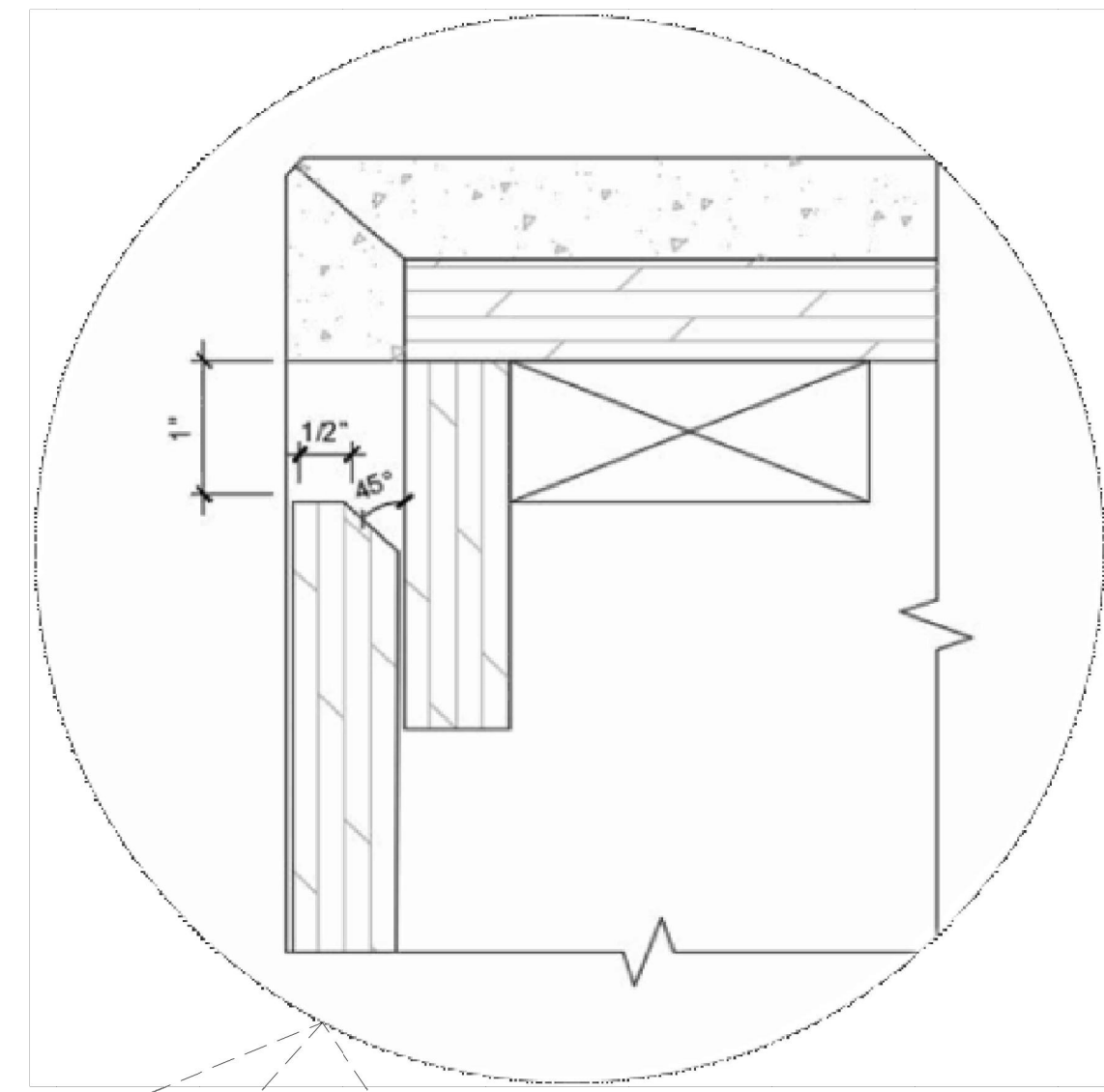


2 M12b
 DR.6.0 SCALE: 1/8"

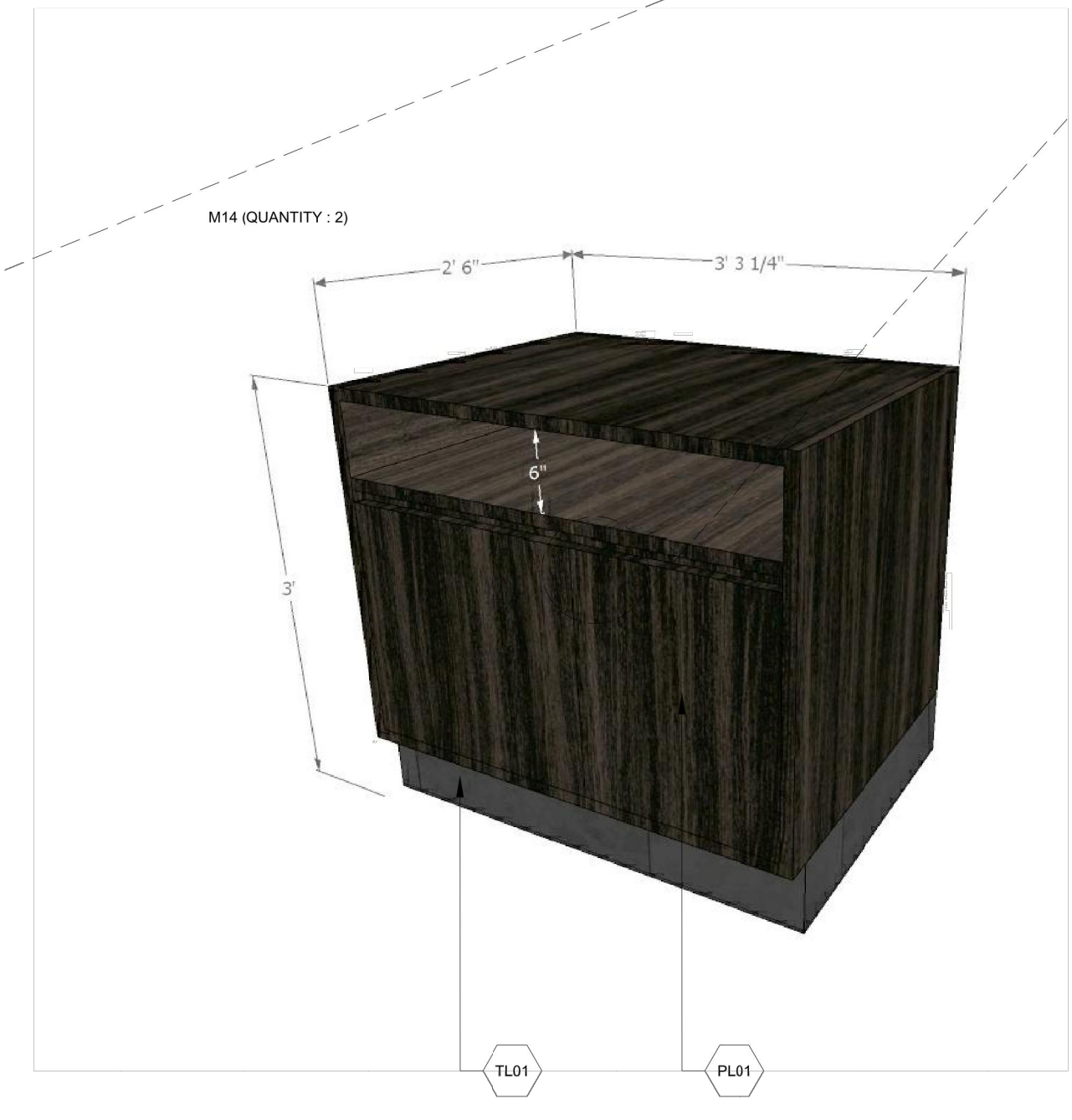


3 M12c
 DR.6.0 SCALE: 1/8"

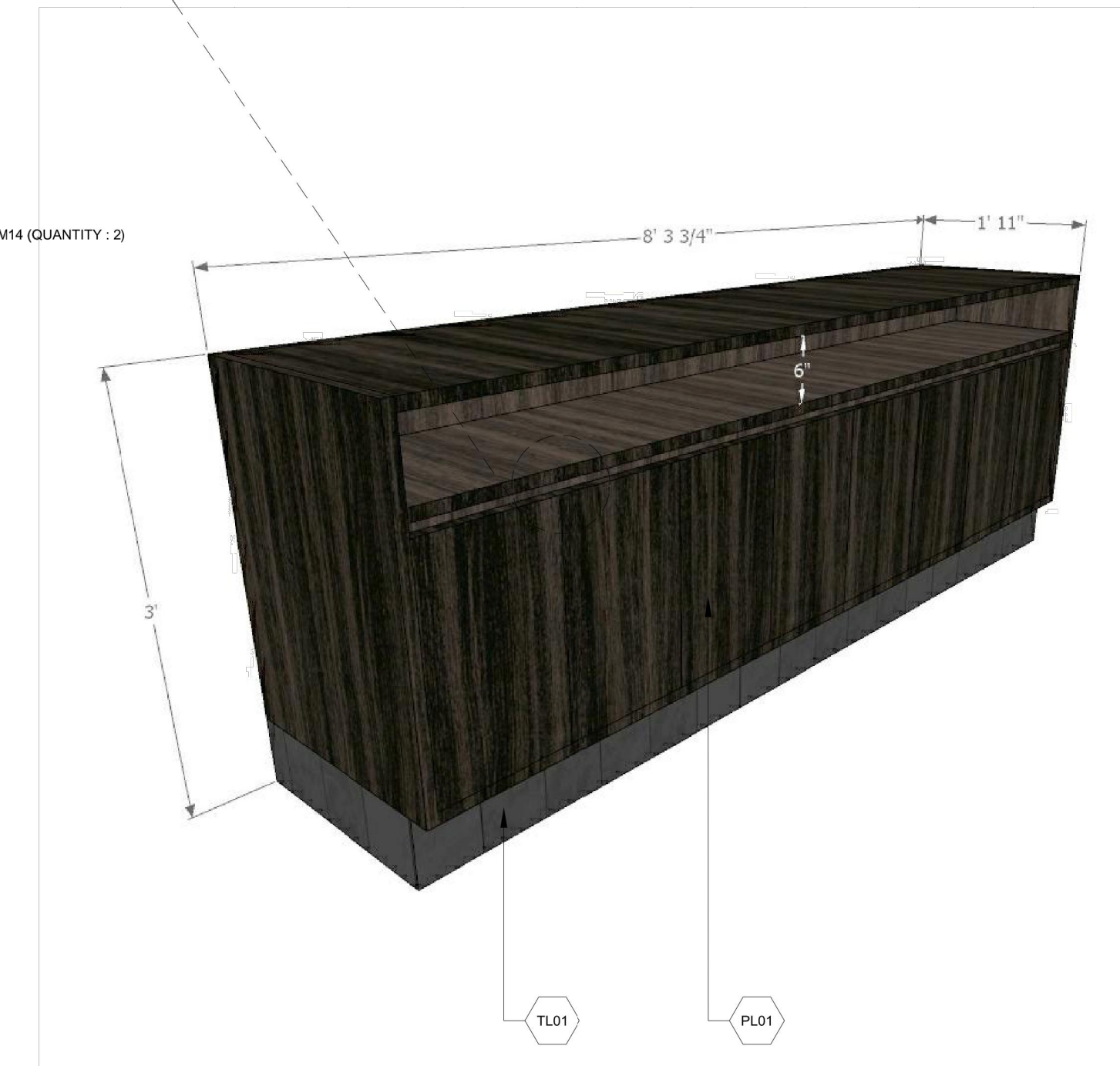
REFER TO EQUIPMENT LOCATION AND VERIFY CABINET SIZE WITH 3 ADJUSTABLE SHELVES.



1 M13 (DB.7.0) SCALE: NTS



2 M14 (DB.7.0) SCALE: NTS



3 M15 (DB.7.0) SCALE: NTS

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 PROJ. ARCH. _____ DRAFTER _____
 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
 M13, M14, M15



SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: ID6.7.0



S01

S01



± 3' 8 1/2"

± 11' 8 1/2"

± 2' 11 1/4"

WIND



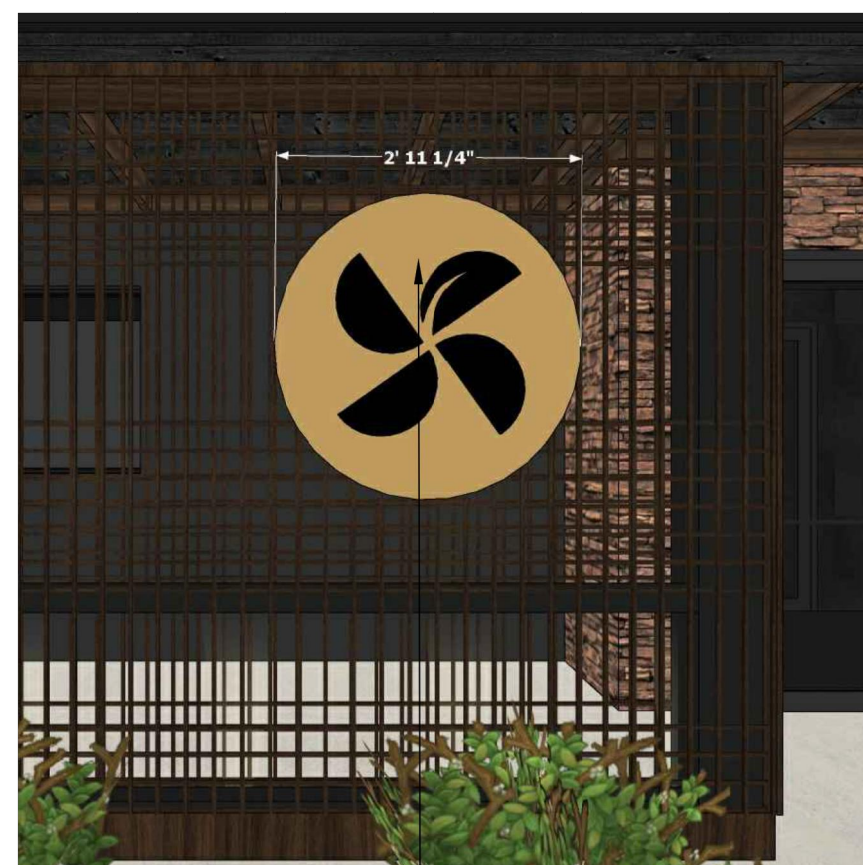
japanese and thai



REFERENCE

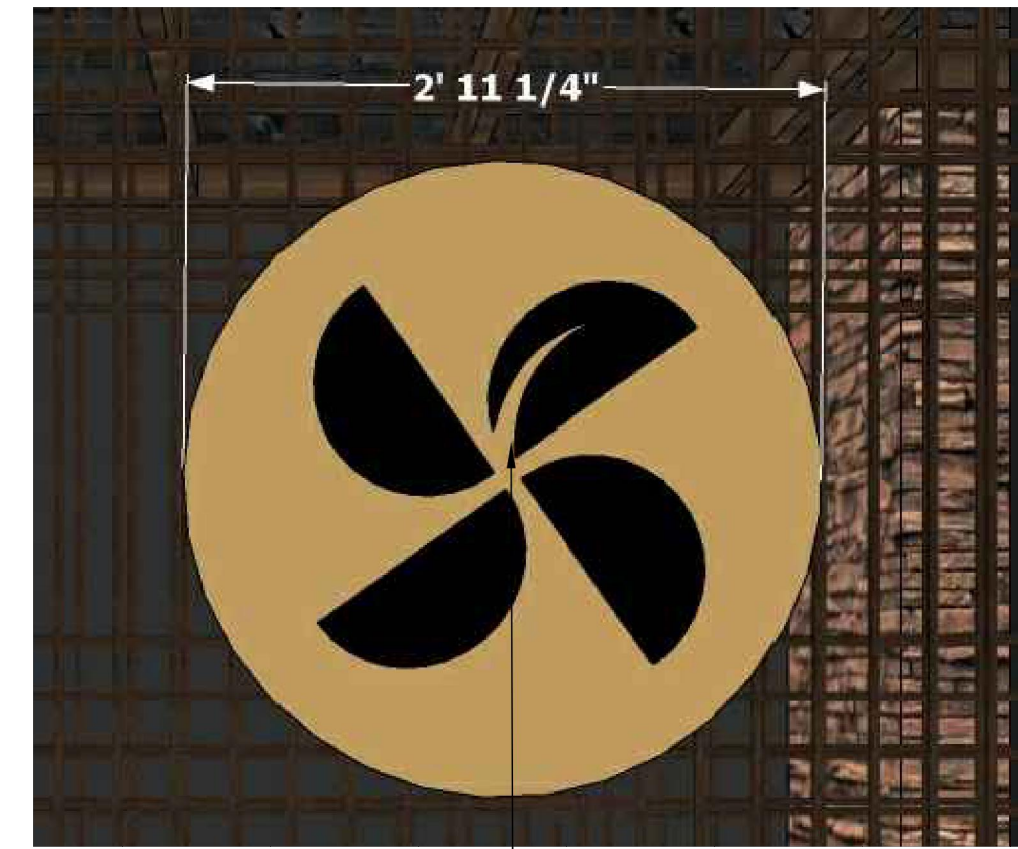
*"WIND + LOGO" TO BE 1/2" THK ALUMINUM CHANNEL LETTERS. FACE TO BE TRANSLUCENT ACRYLIC AND INTERNALLY LIT W/ WHITE LED. RETURNS TO BE PAINTED.

1 S01
02/20/20 SCALE: NTS



2' 11 1/4"

S02



2' 11 1/4"

*"LOGO" TO BE 3/8" THK TRIM-LESS ALUMINUM CHANNEL LETTER FACE TO BE TRANSLUCENT ACRYLIC AND INTERNALLY LIT W/ WHITE LED. *"LOGO PATTERN" TO BE 3/8" THK PUSH THRU OPAQUE ACRYLIC.

2 S02
02/20/20 SCALE: NTS



S03



2 SIDED PYLON SIGN TO BE EXISTING AND MAKE GOOD. FACE PANEL TO BE POWDER COATED ALUMINUM.

*"WIND + LOGO" TO BE 1/2" PUSH THRU ACRYLIC LETTER AND INTERNALLY LIT W/ NEW LED.

*"JAPANESE AND THAI" TO BE CUT OUT FROM PANEL AND INTERNALLY LIT W/ NEW LED.

3 S03
02/20/20 SCALE: NTS

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TITLE:
SIGNAGE S01, S02, S03



SA JOB #: 15108.03 DATE: 04-03-20

DRAWING #: **ID7.1.0**

ROOFTOP AIR CONDITIONING UNIT SCHEDULE - DX

UNIT NO.	LOCATION	CFM STD AIR	MIN OA CFM	TONS	SP (IN WG)	FILTER	NG HEATING		INDOOR MOTOR			EFFICIENCY EER/SEER	COOLING COIL				ELECTRICAL				DESIGN EQUIPMENT TRANE	WEIGHT	ACCESSORIES
							INPUT MBH	OUTPUT MBH	RPM	HP	STARTER		EAT		CAP (MBH)		VOLTS	PHASE	MCA	MOP			
													DB F	WB F	TOTAL	SENS							
RTU-1	ROOF	3000	600	7.5	0.75	(4) 2"THROWAWAY	150	120	802	1.0	YES	11.2/-	80	67	94.0	70.5	208	3	41.2	50	YSC090E3	1150 LBS	1,2,3,4,5,6,7,8,9
RTU-2	ROOF	2000	500	5	0.75	(2) 2"THROWAWAY	80	65	1086	1.0	YES	-/14.0	80	67	62.3	48.1	208	3	28.8	40	YSC060G3	900 LBS	1,2,3,4,5,6,7,8,9
RTU-3	ROOF	4800	1000	12.5	0.75	(6) 2"THROWAWAY	250	203	759	3.0	YES	11.0/-	80	67	150.1	116.0	208	3	64.0	80	YSD150F3	1750 LBS	1,2,3,4,5,6,7,8,9
RTU-4	ROOF	3850	1000	10	0.75	(4) 2"THROWAWAY	200	160	1486	3.75	YES	11.3/-	80	67	119.0	92.8	460	3	23.5	30	YSC120F4	1200 LBS	1,2,3,4,5,6,7,8,9

ACCESSORIES

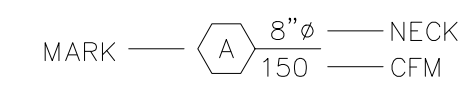
- 14" ROOF CURB
- PROVIDE DISCONNECT SWITCH AND CONVENIENCE OUTLET
- BELT DRIVEN EVAP MOTOR
- DRY BULB CONTROLLED ECONOMIZER
- BAROMETRIC RELIEF
- HINGED ACCESS PANELS
- 7-DAY PROGRAMMABLE THERMOSTAT
- 5 YEAR COMPRESSOR WARRANTY
- RETURN AIR SMOKE DETECTOR

NOTES

- COORDINATE EXACT LOCATION IN FIELD

AIR DEVICE SCHEDULE

MARK	TYPE	STYLE	FACE	BASIS OF DESIGN
A	SUPPLY	SURFACE LAY-IN	24"x24"	TITUS TMS
B	SUPPLY	LINEAR, 4-1" SLOT	48"x6"	TITUS MP-39
C	RETURN	SURFACE LAY-IN	24"x24"	TITUS 300RL



- FINISH TO MATCH ARCHITECTURAL.
- OPTIONAL VOLUME DAMPER ON ALL DIFFUSERS MOUNTED IN GYPSUM CEILINGS OR SOFFITS.
- PROVIDE ALL REQUIRED MOUNTING FRAMES AND HARDWARE.
- PROVIDE INSULATED PLENUM FOR LINEAR DIFFUSER.

MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER	AFF	ABOVE FINISHED FLOOR
	RETURN AIR GRILLE	RTU	ROOF TOP UNIT
	EXHAUST FAN	VD	VOLUME DAMPER
	EXHAUST AIR DUCTWORK	CFM	CUBIC FEET PER MINUTE
	RETURN AIR DUCTWORK	DATS	DISCHARGE AIR TEMP SENSOR
	SUPPLY AIR DUCTWORK	FD	FIRE DAMPER
	BALANCE/VOLUME DAMPER	O.A.	OUTSIDE AIR
	PROGRAMMABLE THERMOSTAT	EAG	EXHAUST AIR GRILLE
	DETAIL NUMBER	SAR	SUPPLY AIR REGISTER
	DRAWING SHEET NUMBER	RAG	RETURN AIR GRILLE
		NK	NECK
		UD	UNDERCUT DOOR (BY ARCHITECT)
		GC	GENERAL CONTRACTOR
		OBVD	OPPOSED BLADE VOLUME DAMPER
		OED	OPEN END DUCT
		HVAC	HEATING VENTILATING AND AIR CONDITIONING
		MC	MECHANICAL CONTRACTOR

GENERAL HVAC NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.
- CONTRACTOR SHALL MAINTAIN A MIN. OF 10 FEET CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUSTS, PLUMBING VENTS, ETC.
- CONTRACTOR SHALL MAINTAIN RECOMMENDED CLEARANCES FOR MAINTENANCE, OPERATION, ETC. ON ALL MECHANICAL EQUIPMENT.
- INSULATED FLEXIBLE SUPPLY AIR DUCT MAY BE USED UP TO 5'-0" FROM SUPPLY DIFFUSERS.
- CONTRACTOR SHALL COORDINATE ALL HVAC WORK WITH OTHER TRADES, ELECTRICAL, PLUMBING, STRUCTURAL, ETC.
- ALL WORK SHALL BE IN FULL COMPLIANCE WITH ALL STATE AND LOCAL CODES AND REGULATIONS.
- HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE EXACT LOCATION OF HVAC UNITS WITH ARCHITECTURAL DRAWINGS AND STRUCTURAL STEEL.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.
- CONTRACTOR SHALL VERIFY ALL EXISTING DUCTWORK (LOCATION AND SIZES).
- PROVIDE FIRE DAMPERS AS REQUIRED ON DUCTS PENETRATING FIRE RATED WALL RATED 2-HR OR MORE. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- KITCHEN EQUIPMENT INCLUDING HOOD, EXHAUST FANS, MAKE-UP AIR UNITS, ETC ARE TO BE PROVIDED BY OTHERS.

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SCHEDULES AND NOTES



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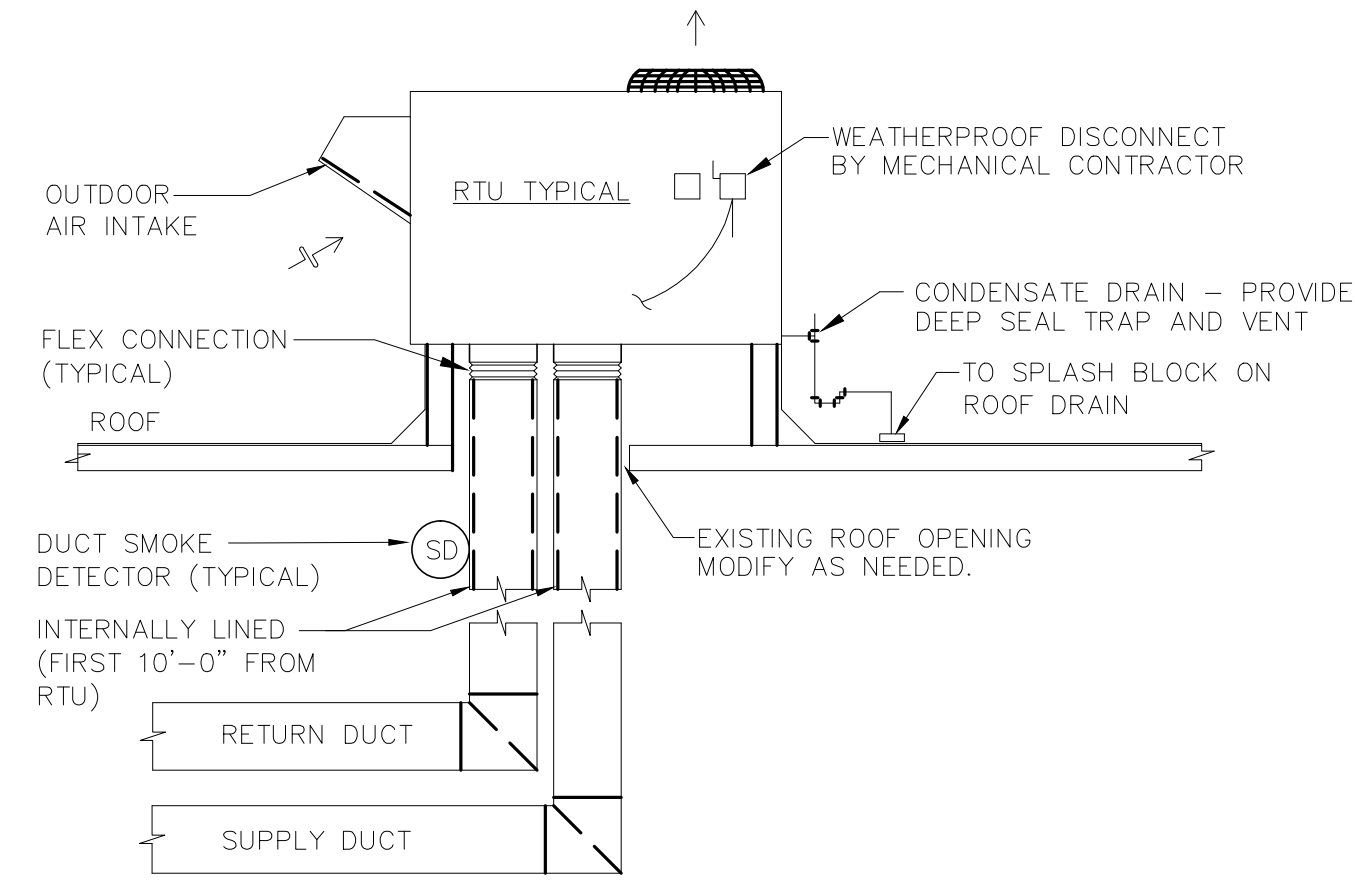
SA JOB #: 15108.03

DATE:

DRAWING #: M-100

HVAC SPECIFICATIONS

NOTE: MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE OWNER'S REPRESENTATIVE. ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF GOVERNING CODES.



1 ROOFTOP UNIT DETAIL
M-102 SCALE: NONE

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES.
2. SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE PERFORMED AS INDICATED ON DRAWINGS UNLESS FIELD CONDITIONS REQUIRED MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.
4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
5. CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS TO THE OWNER AND THE LANDLORD. AS-BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED, THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES FOR HEATING, COOLING, ELECTRICAL, ETC.
6. DEFICIENCIES AND NON-CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT THE OWNER TO CORRECT SAME AT A COST TO THE CONTRACTOR
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.
8. THE SCOPE OF WORK OF THIS CONTRACT INCLUDES, BUT SHALL NOT BE LIMITED TO:
 - A. PROVIDE AND INSTALL ALL EQUIPMENT, APPLIANCES, CONTROL DEVICES, ACCESSORIES, MATERIAL AND LABOR.
 - B. PROVIDE AND INSTALL ALL DUCTWORK, INSULATION, AIR DEVICES DUCT ACCESSORIES, MATERIAL AND LABOR
 - C. PROVIDE AND INSTALL ALL PIPING, FITTINGS, VALVES, INSULATION, ACCESSORIES, MATERIAL AND LABOR
 - D. PROVIDE AND INSTALL TOILET EXHAUST SYSTEM INDICATED.
 - E. CLEAN, TEST AND PUT INTO SERVICE ALL SYSTEMS SPECIFIED.
 - F. PROVIDE A BALANCE REPORT PREPARED BY AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR.
9. WARRANTY ALL WORK AND MATERIALS HEREIN SPECIFIED FOR A PERIOD OF NOT LESS THAN ONE YEAR.
 - 9.1. ALL MATERIALS SHALL BE NEW AND OF RECOGNIZED COMMERCIAL QUALITY. USED MATERIALS WILL NOT BE PERMITTED.
 - 9.2. DUCTWORK

SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA - "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".

DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE OR SAG.
 - 9.3. FLEXIBLE DUCTWORK

FLEXIBLE DUCTS SHALL BE FLAT METAL SPIRAL WITH FLAME RESISTANCE PER NBFU AND NFPA STANDARDS. DUCTS SHALL HAVE INTEGRAL INSULATION 1" THICK, 3/4 LB. DENSITY GLASS FIBER ENCLOSED IN A VINYL VAPOR BARRIER. MINIMUM R VALUE = 5. SECURE INSULATED JACKET TO DUCT TAKEOFFS AND DIFFUSER COLLARS. MAXIMUM LENGTH OF FLEXIBLE DUCT IS 5'-0".

ALL FLEX DUCT SHALL BE FULLY STRETCHED OUT TO REDUCE AIR RESISTANCE.

CONNECTIONS TO FITTINGS OR AIR DEVICES SHALL BE MADE WITH TWO (2) STAINLESS STEEL BANDS. THE INNER LINER SHALL BE CLAMPED TIGHT WITH THE FIRST BAND, THEN THE INSULATION AND VAPOR-PROOF JACKET PULLED TO BE TIGHT AGAINST THE DUCT FITTING OR AIR DEVICE AND SECURED WITH THE SECOND BAND. INSTALLATION SHALL BE AS RECOMMENDED BY THE DUCT MANUFACTURER AND SMACNA

SUPPORT THE FLEXIBLE DUCT WITH ADEQUATE HANGERS TO RELIEVE STRAIN ON ANY FITTING. UNNECESSARY BENDS, SAGS, TWISTS, WILL NOT BE ALLOWED.
 - 9.4. DUCT INSULATION

INSULATION SUPPLY AND RETURN AIR DUCTWORK WITH MINIMUM R=6 FOR NON-CONDITIONED SPACE AND MIN R=12 FOR OUTSIDE DUCTS IN ACCORDANCE WITH THE STATE ENERGY CONSERVATION CODE. PROVIDE VAPOR BARRIER.

LINED DUCT SHALL BE LINED WITH 1" THICK COATED FIBERGLASS BOARD EQUAL TO JOHNS MANVILLE "PERMACOTE" INSULATION. SHALL BE PER SMACNA STANDARDS AND MANUFACTURER'S INSTRUCTIONS. LINED DUCTWORK SHALL BE USED WHERE INDICATED ON DRAWING

ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS.

DUCT INSULATION SHALL BE EQUAL TO PRODUCTS MANUFACTURED BY CERTAINTED AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 9.5. AIR DEVICES

CEILING DIFFUSERS SHALL HAVE A FRAME STYLE COMPATIBLE WITH THE TYPE OF CEILING USED. THE DIFFUSER FACE SIZE OR FACE PLATE SIZE SHALL BE OF THE SAME NORMAL SIZE AS THE CEILING MODULE. DIFFUSERS SHALL HAVE HIGH ANTI-SMUDGE CHARACTERISTICS. REFER TO AIR DEVICE SCHEDULE.
 - 9.6. PIPING AND FITTINGS

CONDENSATE DRAIN PIPING SHALL BE TYPE L COPPER WITH SOLDERED JOINTS AND THROUGH COPPER FITTINGS.

10. EQUIPMENT

HVAC EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN. EQUIVALENT EQUIPMENT AND/OR COMPONENTS THEREOF MAY BE SUBSTITUTED FOR SPECIFIED EQUIPMENT ONLY AS APPROVED BY THE OWNER AND/OR THE PROJECT ENGINEER.

11. EXECUTION

11.1. GENERAL

ACCESSIBILITY - ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, OR RECALIBRATED, ETC., BY SERVICE PEOPLE WITH NORMAL SERVICE TOOLS AND EQUIPMENT.

WORK BY OTHER TRADES - FOR THE WORK REQUIRED BY OTHER TRADES FOR CHANGES MADE BY THIS CONTRACTOR IN TYPE OR SIZE OF EQUIPMENT PURCHASED, ANY CUTTING, PATCHING, FURRING, PAINTING, ELECTRICAL OR PLUMBING WORK SHALL BE DONE BY THE AFFECTED TRADE AT THIS CONTRACTOR'S EXPENSE.

EARLY START-UP - THIS CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT IS CONNECTED WITH ELECTRICAL POWER AS EARLY AS POSSIBLE SO THAT BALANCING AND TESTING CAN BEGIN AT THE EARLIEST DATE AVAILABLE.

CLEANING AND PAINTING - THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC., FROM THE WORK AREA. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/ REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE SPACE IN A THOROUGHLY CLEAN AND ORDERLY MANNER. ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED OR DISCOLORED SHALL BE TOUCHED UP OR REPAINTED TO MATCH THE ORIGINAL COLOR. IF ANY PART HAS BEEN BENT, BROKEN OR OTHERWISE DAMAGED, IT SHALL BE REPLACED PRIOR TO PROJECT CLOSEOUT. ALL METAL ITEMS INSIDE THE BUILDING SUBJECT TO RUSTING, AND ALL FERROUS METAL EXPOSED TO THE WEATHER SHALL BE GIVEN ONE COAT OF RUST PREVENTIVE PRIMER AS SOON AS INSTALLED.

11.2. EQUIPMENT INSTALLATION

ALL EQUIPMENT AND RELATED PIPING, DUCTWORK, CONTROL WIRING AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN THE BUILDING ENVELOPE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE SUCH AS FILTER REPLACEMENT SHALL BE INSTALLED AND ARRANGED TO BE ACCESSIBLE. PROVIDE ACCESS PANEL(S) AS REQUIRED AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR AS REQUIRED BY GOVERNING CODES, WHICHEVER IS GREATER.

11.3. DUCTWORK

LOW PRESSURE DUCTWORK AND FITTING SHALL BE MADE TIGHT FOR MINIMUM AIR LEAKAGE. DUCT TAPE SHALL NOT BE USED TO SEAL JOINTS, TO MAKE TRANSITIONS OR FOR ANY OTHER REASON ON THE OUTSIDE OF THE WRAPPED INSULATION

INSTALL DUCTWORK AS HIGH AS POSSIBLE.

PROVIDE TURNING VANES AT ALL CHANGES IN DIRECTION.

PROVIDE VANED TEES AT BRANCH CONNECTIONS SERVING MORE THAN ONE DIFFUSER

PROVIDE VOLUME CONTROL DAMPERS AND BALANCING DEVICES AS REQUIRED TO DISTRIBUTE THE AIR AND AS INDICATED ON THE DRAWINGS.

NOTE: DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE CLEAR, OR "FREE AREA" DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR INTERNAL DUCT LINER (WHERE SPECIFIED) WHEN ORDERING PRE-FABRICATED DUCTWORK OR WHEN FABRICATING DUCTS IN THE FIELD.

11.4. AIR DEVICES

INSTALL ALL GRILLES AND DIFFUSERS TO BE FLUSH WITH THE PENETRATED SURFACE AND LEVEL OR STRAIGHT WITH SURROUNDING FEATURES. ALL CEILING MOUNTED AIR DEVICES SHALL BE LOCATED IN THE CEILING TILE INDICATED ON THE DRAWINGS, AT THE PROPER HEIGHT TO HOLD IT SNUG AGAINST THE CEILING.

12. INSTALL ROOF MOUNTED EQUIPMENT SUPPORT RAILS OR ROOF CURB AS REQUIRED FOR THE JOB CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.

ALL ROOF PENETRATIONS FOR POWER AND CONTROL WIRING CONDUITS AND GAS, CONDENSATE, OR REFRIGERANT PIPING SHALL BE MADE WITH WATERPROOF PIPE SLEEVES OR CURB(S).

13. THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEM(S) TO THE DESIGN AIR QUANTITIES. CONTRACTOR SHALL PROVIDE THE OWNER AND THE LANDLORD A COPY OF THE CERTIFIED AIR BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT, DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.

14. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

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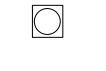
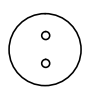
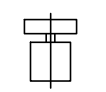
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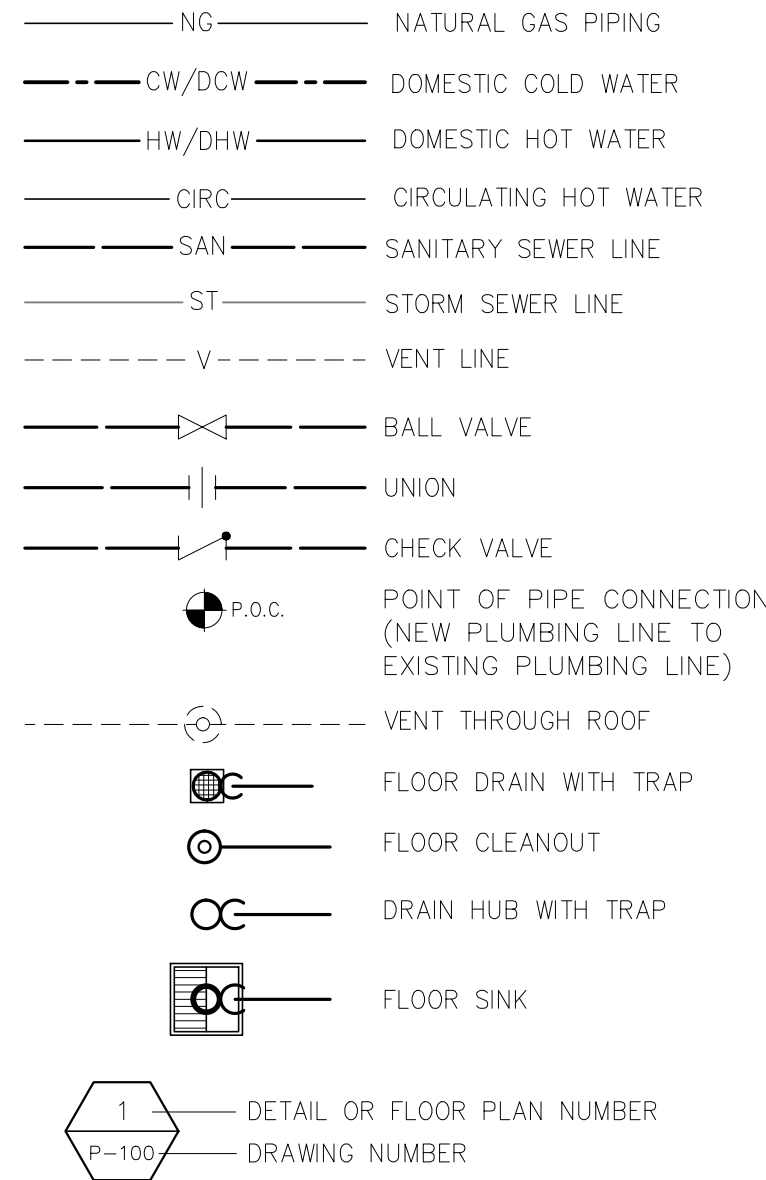
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M-102

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE AND TYPE	SYMBOL	DRAINAGE		DOMESTIC WATER			REMARKS
			SAN	VENT	DCW	DHW	DTW	
W01	WATER CLOSET (ADA) -COLOR PER OWNER -		3"	2"	1/2"	-	-	MANUFACTURE: TOTO MODEL: MS626124CFE (G) - FLOOR MOUNT ONE PIECE TOILET, 1.28 GPF - SKIRT DESIGN
W02	URINAL (ADA) -COLOR PER OWNER -		2"	2"	1/2"	-	-	MANUFACTURE: TOTO MODEL: UT105U (V) (G) - WALL MOUNT, FLUSH VALVE .125 GPF - 3/4" TOP SPUD INLET AND CEILING TECT
W03	LAVATORY (ADA) -COLOR PER OWNER -		3"	2"	-	-	-	MANUFACTURE: KOHLER MODEL: K-5373 (VOX RECTANGLE) - VESSEL WITHOUT FAUCET DECK - DROP-IN
W04	LAVATORY FAUCET (ADA) -		-	-	1/2"	1/2"	-	MANUFACTURE: THE BATH OUTLET MODEL: L 10 L XL US NL, 1.2 GPM - REMER CLASS LINE MATTE BLACK VESSEL - SINK FAUCET
FS1	FLOOR SINK FOOD PREP AREA -		3" OR 4"	2"	-	-	-	MANUFACTURE: MIFAB MODEL: FS1520 - SIZE 8"x8"x6" DEEP, 3/4" GRATE
FD1 & FD2	FLOOR DRAIN -		4"	2"	-	-	-	MANUFACTURE: MIFAB MODEL: F1100-C-S, SQUARE DRAIN - CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, SATIN FINISHED NICKEL BRONZE STRAINER
WH1	WATER HEATER -60 GAL. -NATURAL GAS -SET TEMP AT 140°F -REFER TO 10/P-104		-	-	1-1/2"	1-1/2"	-	MANUFACTURE: BRADFORD WHITE MODEL: EF-60T-125E-3N (OR APPROVED EQUAL), 60 GAL. 125 CFH, 162 GAL AT 90°F RISE, EFF: 96%. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS. COORDINATE VENTING WITH MECHANICAL CONTRACTOR'S VENT KIT.
CIRC-1	RECIRCULATING PUMP -		-	-	-	-	1/2"	MANUFACTURE: BELL & GOSSETT MODEL: SERIES PL-36 - 1/2" FLANGE, 1/6 HP, 120V - AQUA-STAT AND TIMER KIT

LEGEND



ABBREVIATIONS

CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
CIRC	CIRCULATING HOT WATER
CO	CLEANOUT
NG	NATURAL GAS
SAN	SANITARY SEWER
V	VENT
VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
POC	POINT OF CONNECTION
SOV	SHUTOFF VALVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CFH	CUBIC FEET PER HOUR
PDI	PLUMBING DRAINAGE INSTITUTE

VENT PIPING SIZING TABLE

TO COMBINE VENTS FOR MINIMAL VENT THRU ROOF PENETRATIONS, USE THE FOLLOWING

FIXTURE	VENT FIXTURE UNITS
WATER CLOS	3
LAVATORIES	1
BATHUB/SHOWER	2
KITCHEN SINK	2
CLOTHES WASHER	2
MOP SINK	3
FLOOR DRAIN	3
WATER COOLER	1

PIPE	MAX. FIXTURE UNITS	REMARKS
4"	256	
3"	84	
2-1/2"	48	
2"	24	
1-1/2"	8	DO NOT USE FOR WATER CLO.

ADA ACCESS NOTES

NOTES:

- ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE PLUMBING INSTALLATION AS SPECIFIED IN SPECIFICATIONS AND ON DRAWINGS.
- COORDINATE TYPE OF FLOOR PRIOR TO ORDERING FLOOR DRAINS/FLOOR SINKS.
- PROVIDE ACCESS PANEL ON ALL NON ACCESSIBLE CEILINGS, BELOW PLUMBING VALVES.
- PROVIDE ALL WALL CARRIERS AND ACCESSORIES FOR INSTALLATION OF LAVATORIES, URINALS AND WATER CLOSETS.
- VERIFY ALL PLUMBING CONNECTIONS WITH EQUIPMENT PURCHASE.

- A. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING. PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
- B. HOT WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

PLUMBING SPECIFICATIONS

GENERAL

A. GENERAL

- CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED IN THESE SPECIFICATIONS.
- SPECIFICATIONS ARE APPLICABLE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS FOR PLUMBING SYSTEMS.
- CHECK OTHER PLANS AND SPECIFICATIONS AND FULLY COORDINATE WITH OTHER SYSTEMS AND TRADES.
- NO PIPING, CONTROLS, ETC., SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
- SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
- EACH CONTRACTOR SHALL PROVIDE FOR HIS/HER OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH ON A DAILY BASIS.
- FULLY COORDINATE ALL WORK WITH OTHER CONTRACTORS, SUBCONTRACTORS, THE OWNER AND COOPERATE COMPLETELY.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKMEN.

B. CODE, STANDARDS AND REGULATIONS

- CONFORM TO ALL APPLICABLE CODES, GOVERNMENT REGULATIONS.
- OBTAIN PERMITS AND PAY ALL FEES. ARRANGE FOR ALL REQUIRED INSPECTION AND APPROVALS.

C. DRAWINGS

- THE SYSTEMS ARE SHOWN ON PLUMBING DRAWINGS. DRAWING ARE DIAGRAMMATIC IN NATURE. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
- THE INTENT IS FOR COMPLETE AND WORKABLE SYSTEMS. THE DRAWINGS AND THESE NOTES ARE TO BE USED TOGETHER AS A BASIS OF SHOWING AND/OR DESCRIBING THE SYSTEM REQUIRED FOR THIS FACILITY.

D. BASE EQUIPMENT/MATERIALS AND SUBSTITUTIONS

- BASE EQUIPMENT, MANUFACTURER, MODEL AND CAPACITY OF EQUIPMENT ARE LISTED IN SCHEDULE ON DRAWING. ANY OTHER MANUFACTURER OR MODEL IS CONSIDERED A SUBSTITUTION.
- ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FREE OF DEFECTS AND U.L. LABELED, OTHERWISE NOT ACCEPTED.
- SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
- IF SUBSTITUTIONS ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS, SUBCONTRACTORS OR TRADES AFFECTED BY SUBSTITUTION AND FULLY COORDINATE. ANY COSTS RESULTING FROM SUBSTITUTION, WHETHER BY CONTRACTOR OR OTHERS SHALL BE RESPONSIBILITY OF AND PAID FOR BY SUBSTITUTING CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFORM TO THESE REQUIREMENTS PRIOR TO STARTING WORK.

E. CHECK, TEST, START, ADJUST AND INSTRUCTIONS

- AFTER INSTALLATION AND SERVICING, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- PIPING SHALL BE FULLY TESTED AND MADE FREE OF LEAKS.
- INSTRUCT OWNER/TENANT IN OPERATION OF SYSTEMS AND SUBMIT OPERATING AND MAINTENANCE MANUAL ON ALL EQUIPMENT AND SYSTEMS.

F. PROJECT WARRANTY

- FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- REPAIR OR REPLACE WITHOUT CHARGE, TO THE OWNER ALL ITEMS.

PLUMBING SYSTEM

A. SCOPE

- FURNISH ALL PLUMBING FIXTURES, EQUIPMENT AND MATERIAL INDICATED AND SHOWN ON DRAWINGS AND INSTALL COMPLETE AND PLACE IN PROPER OPERATION.
- PLUMBING SYSTEMS CONSIST OF, BUT NOT LIMITED TO THE FOLLOWING:
 - PLUMBING FIXTURES WITH ALL REQUIRE TRIM AND EQUIPMENT.
 - PLUMBING SPECIAL (SHUT-OFF VALVES, ETC.).
 - DOMESTIC HOT/COLD WATER, WASTE AND VENT PIPING SPECIFIED.
 - INSULATION OF PIPING ITEMS (DOMESTIC HOT/COLD RECIRCULATING WATER PIPING).
 - PLUMBING SPECIALTIES (NATURAL GAS PIPING).

B. CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS

- INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURER'S INSTRUCTIONS TO MAKE FINAL CONNECTIONS.

C. SANITARY SEWERS

- INSTALL SANITARY SEWERS, STACKS, VENTS, FLOOR DRAINS AND CLEANOUTS FOR PROJECT AND AS INDICATED ON THE DRAWINGS.
- SEWERS TO BE PITCHED A MINIMUM OF 1/4" PER FOOT FOR 3" SIZES AND UNDER AND 1/8" PER FOOT 4" SIZES OR TO PITCH INDICATED ON DRAWINGS.
- CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH SAME PIPING SYSTEM MATERIAL IN WHICH IT IS INSTALLED.
- ALL FIXTURES AND SANITARY DRAINS SHALL BE VENTED AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH STATE CODES.

D. FIXTURES AND EQUIPMENT

- FURNISH ALL FIXTURES AND EQUIPMENT INDICATED AND SCHEDULED, COMPLETE WITH ALL ACCESSORIES, CONTROLS AND INSTALLATION ITEMS REQUIRED.
 - INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PLACE IN SATISFACTORY OPERATION.
- E. PIPING - WITHIN BUILDING TO 5 FT. OUTSIDE OF BUILDING**
- ABOVE GROUND SANITARY SEWER DRAINAGE - CAST IRON WITH "NO-HUB" COUPLINGS OR RUBBER GASKETED JOINTS.
 - UNDERSLAB SANITARY SEWER DRAINAGE - CAST IRON WITH "NO-HUB" COUPLINGS OR RUBBER GASKETED JOINTS.
 - DOMESTIC WATER - COPPER, TYPE L ABOVE GROUND - TYPE K UNDERGROUND. PROVIDE SHUT-OFF VALVE FOR EACH FIXTURE. WROUGHT COPPER FITTINGS WITH LEAD FREE SOLDER.
 - EXPOSED PIPING IN TOILET AND KITCHEN ROOMS SHALL BE CHROME PLATED WITH ESCUTCHEONS.
 - LAVATORY TRAPS, WASTE AND WATER PIPING SHALL BE ARRANGED TO MEET ADA CLEARANCE REQUIREMENTS WHERE NOTED.
 - GAS PIPING - SCHEDULE 40 BLACK STEEL WITH MALLEABLE SCREWED FITTING IN SIZE UP TO 3" OVER TO BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS.
 - FIRESTOP ALL PIPING PENETRATIONS THROUGH FLOORS, WALLS AND PARTITIONS.
 - CONDENSATE DRAIN LINE - COPPER, TYPE L ABOVE GROUND.
 - PEX-A (UPONOR-PEX-A TUBING) PIPING AND FITTINGS (UPONOR F1960) APPROVED IF: APPROVED BY OWNER AND LOCAL INSPECTOR (LOCAL JURISDICTION)

F. PIPING INSULATION

A. INSULATE THE FOLLOWING:

- DOMESTIC COLD WATER PIPING.
 - DOMESTIC HOT WATER PIPING.
 - LAVATORY TRAP AND HOT WATER SUPPLY (ON HANDICAPPED INSTALLATION).
 - ROOF DRAINAGE (ROOF DRAIN & HORIZONTAL RUNS ABOVE FLOOR ON NEW AND EXISTING STORM WATER LINES AND SUMP)
- B. INSULATION PRODUCTS AND INSTALLATION SHALL COMPLY WITH STATE OF NEW YORK ENERGY CONSERVATION CONSTRUCTION CODE.**
- C. HOT WATER PIPING INSULATION SHALL BE PREFORMED, SNAP-ON FIBERGLASS INSULATION WITH PAINTABLE WHITE KRAFT OR ALUMINUM FOIL JACKET CELLULAR POLYOLEFIN FOAM BY IMCOA.**
- D. DOMESTIC COLD WATER INSULATION SHALL BE SIMILAR TO DOMESTIC HOT WATER WITH VAPOR BARRIER.**

E. INSULATION THICKNESS SCHEDULE

SERVICE	FLUID TEMPERATURE DEGREE F	INSULATION THICKNESS FOR PIPE SIZES *	1" AND LESS **	1-1/4" TO 2"
DOMESTIC COLD WATER	40 - 60	1/2"	1"	
DOMESTIC HOT WATER	105 - 140	1"	1"	
ROOF DRAINAGE (EXISTING)				1"

* BASIS R4/IN.

- F. LAVATORY INSULATION SHALL BE TRAP WRAP OR EQUAL.**
- WATER PIPING**
- G.**
- PROVIDE DOMESTIC WATER PIPING AS NOTED ON DRAWING.
 - INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR INSULATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY INBCO, CRANE OR OTHER APPROVED MANUFACTURER. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
 - HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH SUFFICIENT SADDLE TO PROTECT INSULATION.
 - FIRESTOP ALL PIPING PENETRATIONS THROUGH FLOORS, WALLS AND PARTITIONS.
 - INSTALL SHOCK ABSORBERS AT EACH FIXTURE OR WHERE REQUIRED TO PREVENT WATER HAMMER PER PDI.

H. STERILIZATION OF WATER PIPING

- THE WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE STERILIZED WITH CHLORINE IN SOLUTION IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION PUBLICATION AND LOCAL ORDINANCES.
 - ALL WORK AND CERTIFICATION OF PERFORMANCE SHALL BE DONE BY APPROVED APPLICATIONS OR QUALIFIED PERSONNEL WITH CHEMICAL AND LABORATORY EXPERIENCE. SUBMIT A CERTIFICATE OF STERILIZATION.
- PIPING TEST**
- I. A.** ALL PIPING SYSTEMS INCLUDING VALVES AND ACCESSORIES SHALL BE TESTED AS FOLLOWS: TEST PRESSURES SHALL BE MAINTAINED WITH NO LEAKS FOR DURATIONS SPECIFIED.
- SOIL, WASTE AND VENT - FILL WITH WATER TO 10 FT. ABOVE HIGHEST FIXTURE WHERE POSSIBLE. TIGHT FOR 6 HOURS.
 - HOT AND COLD WATER - 150 PSIG HYDROSTATIC, TIGHT FOR 4 HOURS.
- SUPPORTS AND HANGERS**
- J.** HANGERS AND SUPPORTS ARE TO BE PROVIDED TO PROPERLY SUPPORT, SECURE AND ALIGN PIPING AND TO MEET CONDITIONS, SPACING TO COMPLY WITH AND LOCAL CODE REQUIREMENTS. (PLUMBING LINES)
- GAS PIPING**
- K.**
- COORDINATE ALL NEW GAS ROUTING LOCATED ON ROOF IN FIELD.
 - PAINT GAS PIPING TWO COATS EXTERIOR ENAMEL AND SUPPORTS.

GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.
- DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.
- ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.
- EXISTING STORM WATER SYSTEM TO REMAIN.

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Wind Buffalo Renovation

7566 Transit Rd.
Amherst, NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:

SCHEDULES AND SPECIFICATIONS

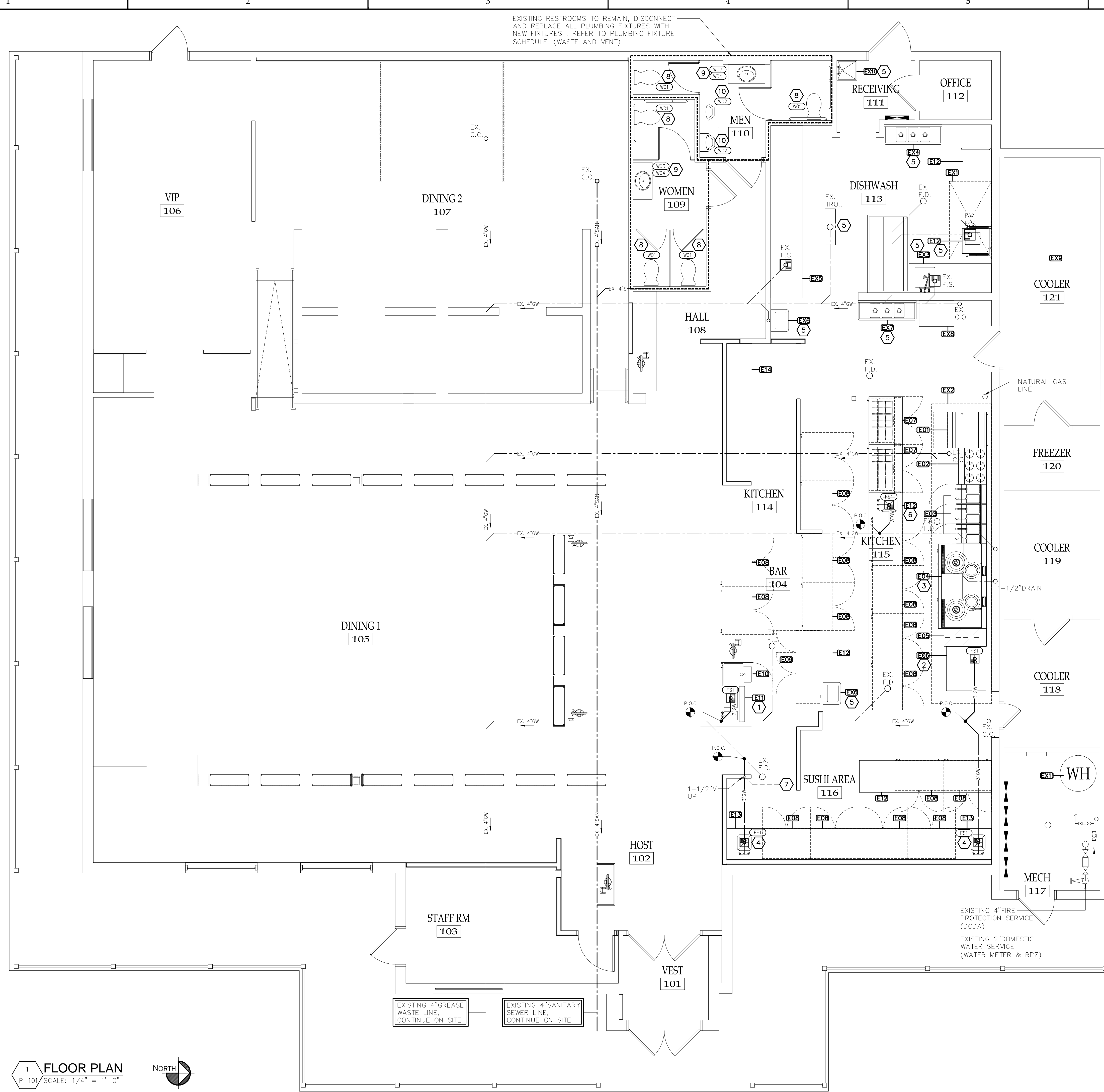


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SA JOB #: 15108.03
DATE:

DRAWING #: P-100



EXISTING EQUIPMENT LIST	
CODE	DESCRIPTION
EX01	HOOD AT KITCHEN AREA
EX02	HOOD AT DISH WASH AREA
EX03	STAINLESS STEEL WORK TABLE W/ 1 SINK
EX04	3 COMPARTMENT SINK
EX05	STAINLESS STEEL WORK TABLE
EX06	HAND SINK
EX07	3 COMPARTMENT SINK
EX08	ICE MACHINE
EX09	WALK IN COOLER & FREEZER
EX10	MOP SINK
EX11	HOT WATER TANK

NEW EQUIPMENT LIST	
CODE	DESCRIPTION
E01	FLAT TOP GRILL
E02	6 BURNER
E03	FRYER
E04	WOKS
E05	STOCK POT(DOUBLE RANGE)
E06	OVEN
E07	SALAD PREP COOLER
E08	UNDER COUNTER COOLER
E09	BAR BACK COOLER
E10	DIRECT DRAW BEER DISPENSER
E11	CUSTOM STAINLESS STEEL COCKTAIL UNIT
E12	DISHWASHER
E13	CUSTOM STAINLESS STEEL PREP TABLE W/ HAND SINK C/W FAUCET
E14	CUSTOM STAINLESS STEEL PREP TABLE

- # NOTES:**
- (2) 1-1/2" DRAINS FROM EQUIPMENT E11 TO FS1 WITH 3" AIR GAP.
 - 2" DRAIN FROM EQUIPMENT E06 TO FS1 WITH 4" AIR GAP.
 - 1-1/2" DRAIN FROM EQUIPMENT E04 TO FS1 WITH 3" AIR GAP.
 - 1-1/2" DRAIN FROM EQUIPMENT E13 TO FS1 WITH 3" AIR GAP.
 - EXISTING FIXTURE AND ALL ASSOCIATED PLUMBING SERVICES TO REMAIN. (WASTE/DRAIN AND VENT)
 - 2" DRAIN FROM EQUIPMENT E12 TO FS1 WITH 4" AIR GAP.
 - NEW 1-1/2" VENT. EXTEND AND CONNECT TO NEAREST EXISTING VENT (EXISTING 2" VENT LINE MINIMUM). VERIFY CONNECTION POINT IN FIELD.
 - 3" WASTE LINE TO REPLACED WATER CLOSET.
 - 1-1/2" DRAIN WITH TRAP LINE TO REPLACED LAVATORY.
 - 2" WASTE LINE TO REPLACED URINAL.

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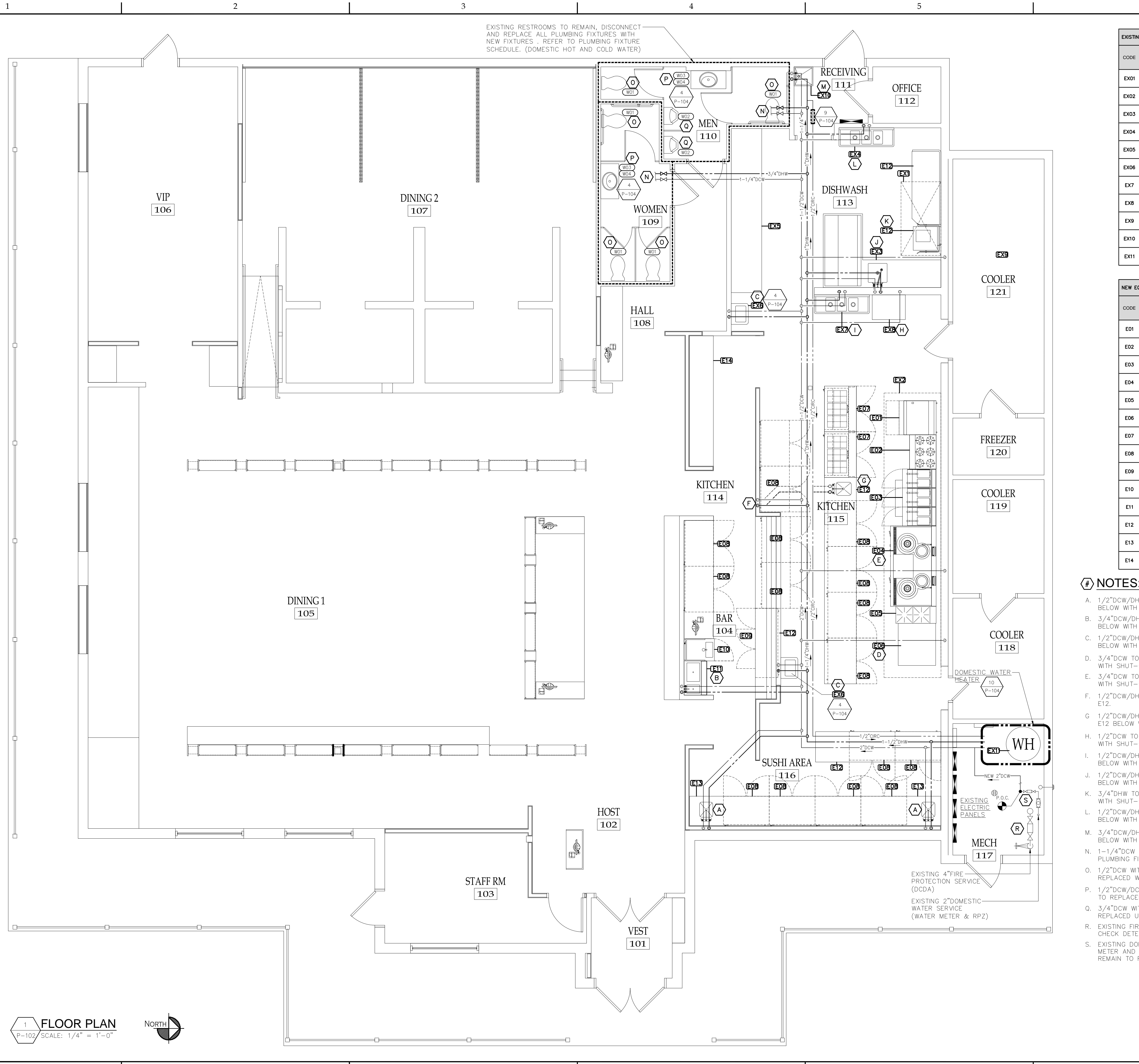
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FLOOR PLAN WASTE AND VENT

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 DRAWING #: P-101



EXISTING RESTROOMS TO REMAIN, DISCONNECT AND REPLACE ALL PLUMBING FIXTURES WITH NEW FIXTURES - REFER TO PLUMBING FIXTURE SCHEDULE. (DOMESTIC HOT AND COLD WATER)

EXISTING EQUIPMENT LIST	
CODE	DESCRIPTION
EX01	HOOD AT KITCHEN AREA
EX02	HOOD AT DISH WASH AREA
EX03	STAINLESS STEEL WORK TABLE W/ 1 SINK
EX04	3 COMPARTMENT SINK
EX05	STAINLESS STEEL WORK TABLE
EX06	HAND SINK
EX7	3 COMPARTMENT SINK
EX8	ICE MACHINE
EX9	WALK IN COOLER & FREEZER
EX10	MOP SINK
EX11	HOT WATER TANK

NEW EQUIPMENT LIST	
CODE	DESCRIPTION
E01	FLAT TOP GRILL
E02	6 BURNER
E03	FRYER
E04	WOKS
E05	STOCK POT(DOUBLE RANGE)
E06	OVEN
E07	SALAD PREP COOLER
E08	UNDER COUNTER COOLER
E09	BAR BACK COOLER
E10	DIRECT DRAW BEER DISPENSER
E11	CUSTOM STAINLESS STEEL COCKTAIL UNIT
E12	DISHWASHER
E13	CUSTOM STAINLESS STEEL PREP TABLE W/ HAND SINK, C/W FAUCET
E14	CUSTOM STAINLESS STEEL PREP TABLE

- # NOTES:**
- A. 1/2"DCW/DHW TO EQUIPMENT E13 BELOW WITH SHUT-OFF VALVES.
 - B. 3/4"DCW/DHW TO EQUIPMENT E11 BELOW WITH SHUT-OFF VALVES.
 - C. 1/2"DCW/DHW TO EQUIPMENT EX6 BELOW WITH SHUT-OFF VALVES.
 - D. 3/4"DCW TO EQUIPMENT E06 BELOW WITH SHUT-OFF VALVE.
 - E. 3/4"DCW TO EQUIPMENT E05 BELOW WITH SHUT-OFF VALVE.
 - F. 1/2"DCW/DHW TO BELOW TO EQUIPMENT E12.
 - G. 1/2"DCW/DHW FROM BELOW TO EQUIPMENT E12 BELOW WITH SHUT-OFF VALVES.
 - H. 1/2"DCW TO EQUIPMENT EX8 BELOW WITH SHUT-OFF VALVE.
 - I. 1/2"DCW/DHW TO EQUIPMENT EX7 BELOW WITH SHUT-OFF VALVES.
 - J. 1/2"DCW/DHW TO EQUIPMENT EX3 BELOW WITH SHUT-OFF VALVES.
 - K. 3/4"DHW TO EQUIPMENT EX12 BELOW WITH SHUT-OFF VALVES.
 - L. 1/2"DCW/DHW TO EQUIPMENT EX4 BELOW WITH SHUT-OFF VALVES.
 - M. 3/4"DCW/DHW TO EQUIPMENT EX10 BELOW WITH SHUT-OFF VALVES.
 - N. 1-1/4"DCW AND 3/4"DHW TO EXISTING PLUMBING FIXTURES IN RESTROOM.
 - O. 1/2"DCW WITH SHUT-OFF VALVE TO REPLACED WATER CLOSET.
 - P. 1/2"DCW/DCW WITH SHUT-OFF VALVES TO REPLACED LAVATORY.
 - Q. 3/4"DCW WITH FLUSH VALVE TO REPLACED URINAL.
 - R. EXISTING FIRE PROTECTION DOUBLE CHECK DETECTOR VALVE TO REMAIN.
 - S. EXISTING DOMESTIC WATER WATER METER AND BACKFLOW PREVENTER TO REMAIN TO REMAIN.

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Wind Buffalo Renovation

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 JOB CAPT. _____ INTERIORS _____

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FLOOR PLAN DOMESTIC WATER

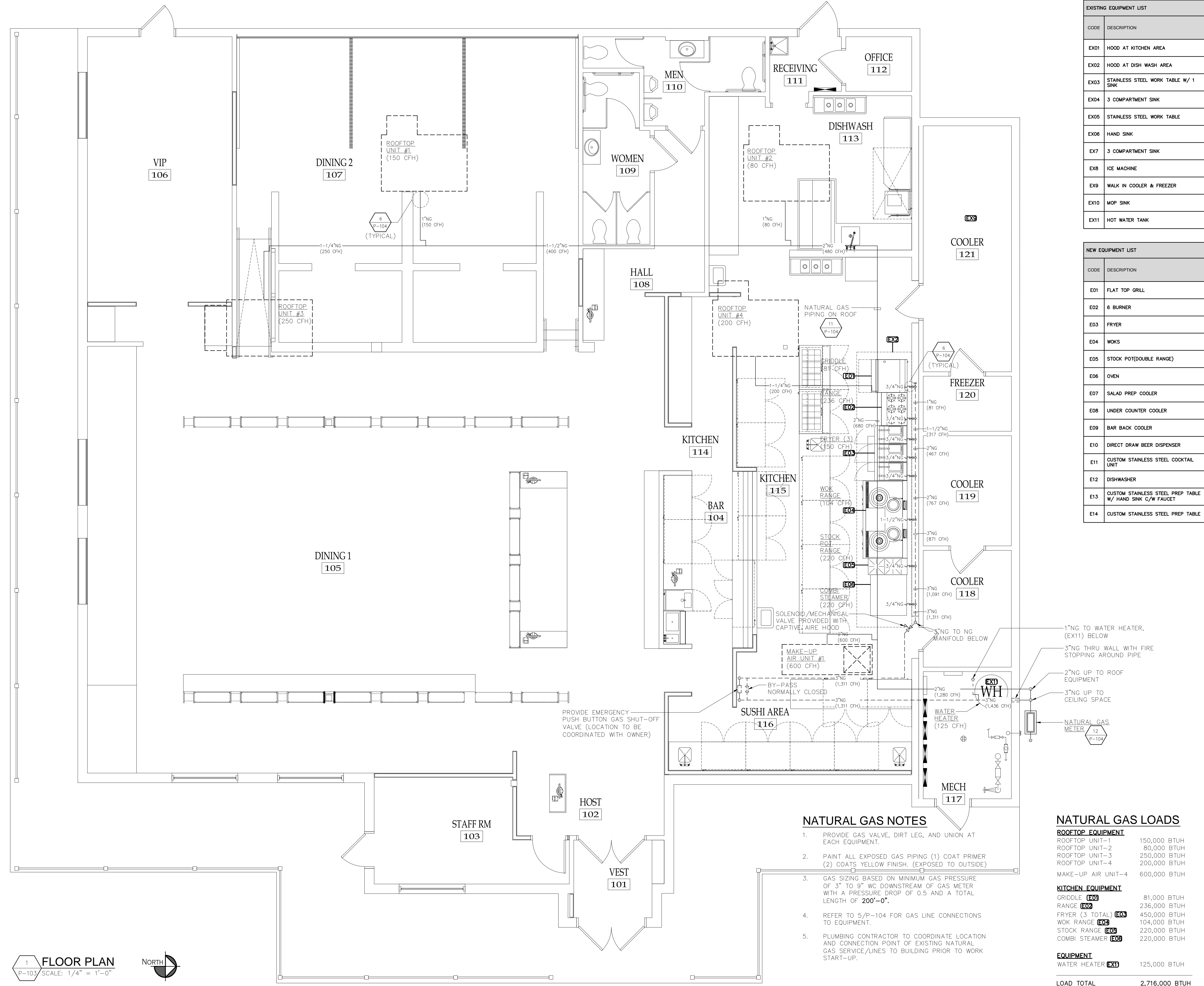


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DRAWING #: P-102



EXISTING EQUIPMENT LIST	
CODE	DESCRIPTION
EX01	HOOD AT KITCHEN AREA
EX02	HOOD AT DISH WASH AREA
EX03	STAINLESS STEEL WORK TABLE W/ 1 SINK
EX04	3 COMPARTMENT SINK
EX05	STAINLESS STEEL WORK TABLE
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EX7	3 COMPARTMENT SINK
EX8	ICE MACHINE
EX9	WALK IN COOLER & FREEZER
EX10	MOP SINK
EX11	HOT WATER TANK

NEW EQUIPMENT LIST	
CODE	DESCRIPTION
E01	FLAT TOP GRILL
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E12	DISHWASHER
E13	CUSTOM STAINLESS STEEL PREP TABLE W/ HAND SINK C/W FAUCET
E14	CUSTOM STAINLESS STEEL PREP TABLE

- NATURAL GAS NOTES**
- PROVIDE GAS VALVE, DIRT LEG, AND UNION AT EACH EQUIPMENT.
 - PAINT ALL EXPOSED GAS PIPING (1) COAT PRIMER (2) COATS YELLOW FINISH. (EXPOSED TO OUTSIDE)
 - GAS SIZING BASED ON MINIMUM GAS PRESSURE OF 3" TO 9" WC DOWNSTREAM OF GAS METER WITH A PRESSURE DROP OF 0.5 AND A TOTAL LENGTH OF 200'-0".
 - REFER TO S/P-104 FOR GAS LINE CONNECTIONS TO EQUIPMENT.
 - PLUMBING CONTRACTOR TO COORDINATE LOCATION AND CONNECTION POINT OF EXISTING NATURAL GAS SERVICE/LINES TO BUILDING PRIOR TO WORK START-UP.

NATURAL GAS LOADS

ROOFTOP EQUIPMENT	
ROOFTOP UNIT-1	150,000 BTUH
ROOFTOP UNIT-2	80,000 BTUH
ROOFTOP UNIT-3	250,000 BTUH
ROOFTOP UNIT-4	200,000 BTUH
MAKE-UP AIR UNIT-4	600,000 BTUH
KITCHEN EQUIPMENT	
GRIDDLE (E01)	81,000 BTUH
RANGE (E02)	236,000 BTUH
FRYER (3 TOTAL) (E03)	450,000 BTUH
WOK RANGE (E04)	104,000 BTUH
STOCK RANGE (E05)	220,000 BTUH
COMBI STEAMER (E06)	220,000 BTUH
EQUIPMENT	
WATER HEATER (EX1)	125,000 BTUH
LOAD TOTAL	2,716,000 BTUH (2,716 CFH)

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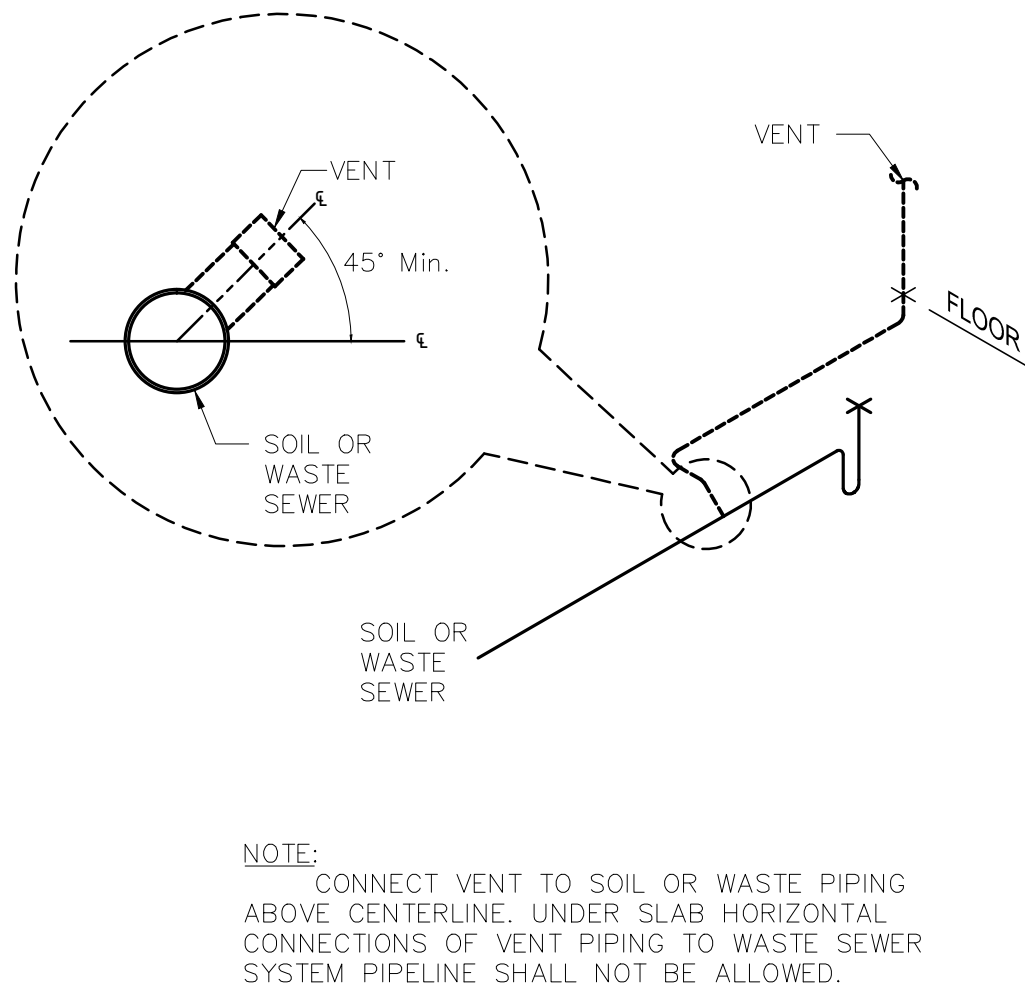
FLOOR PLAN NATURAL GAS



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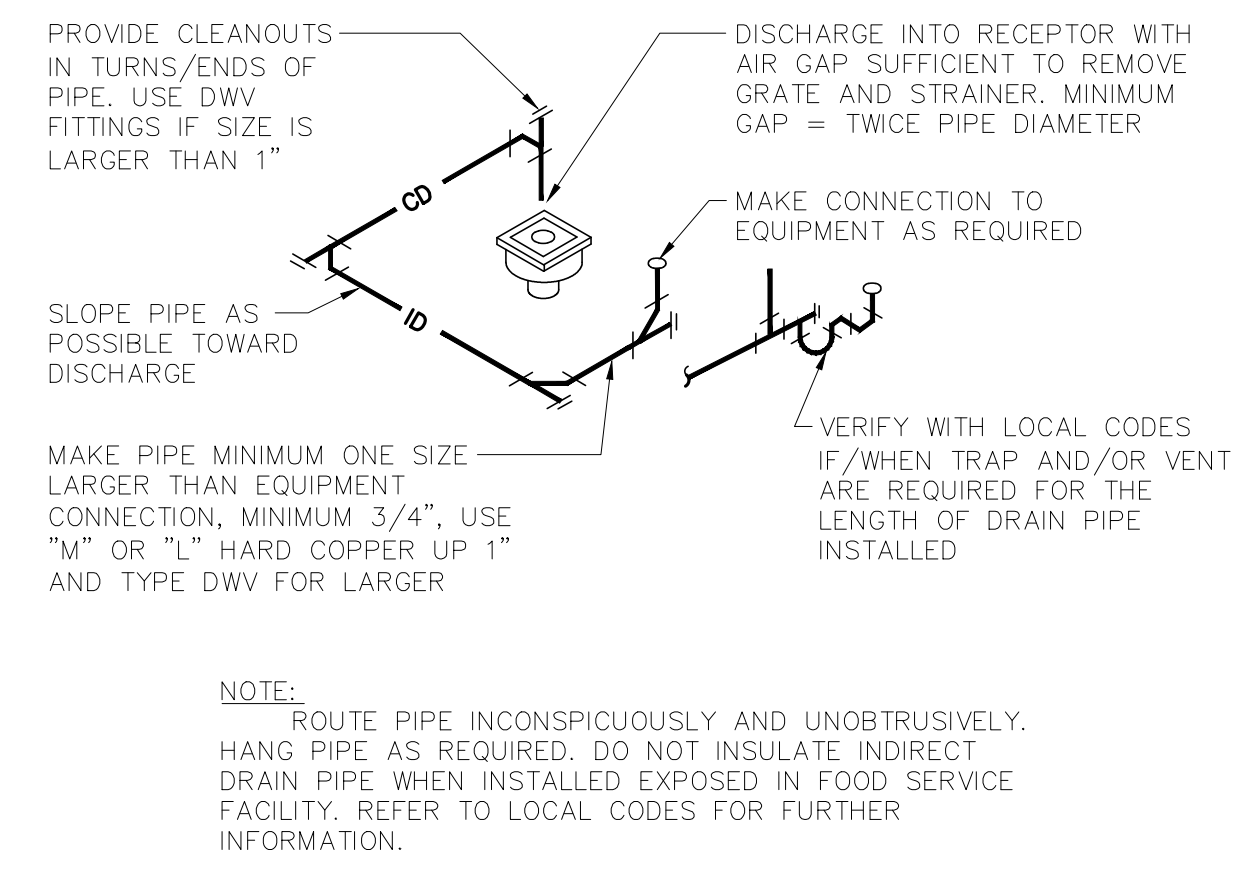
SA JOB #: 15108.03 DATE:

DRAWING #: P-103



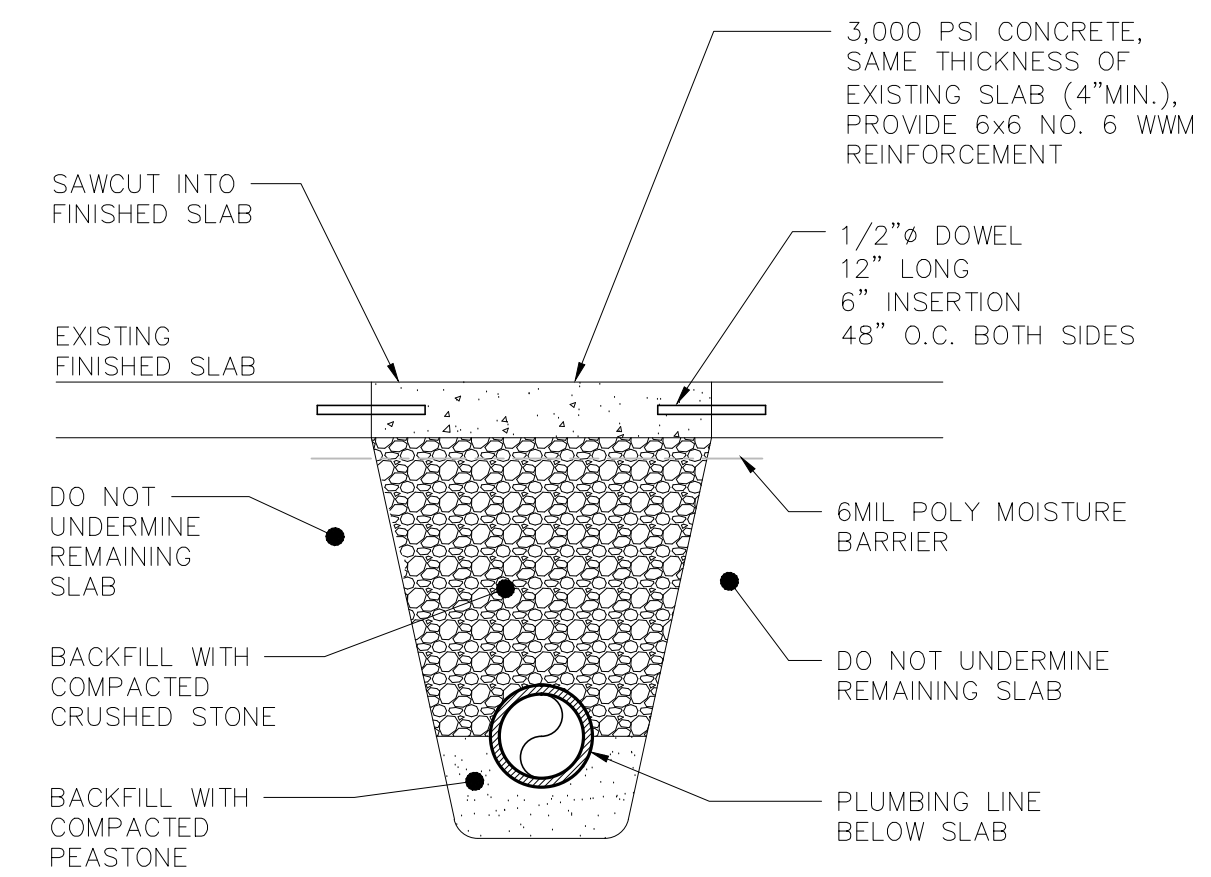
NOTE:
CONNECT VENT TO SOIL OR WASTE PIPING ABOVE CENTERLINE UNDER SLAB HORIZONTAL CONNECTIONS OF VENT PIPING TO WASTE SEWER SYSTEM PIPELINE SHALL NOT BE ALLOWED.

1 VENT PIPE INSTALLATION
P-104 SCALE: NONE

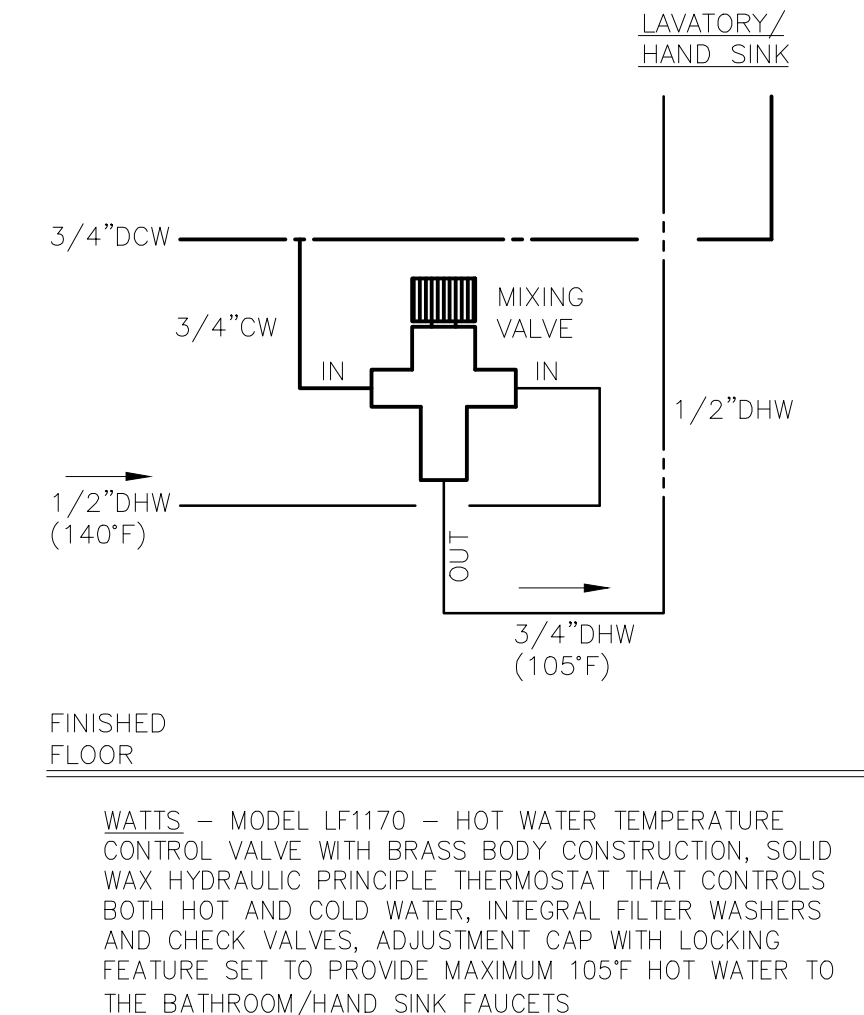


NOTE:
ROUTE PIPE INCONSPICUOUSLY AND UNOBTUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

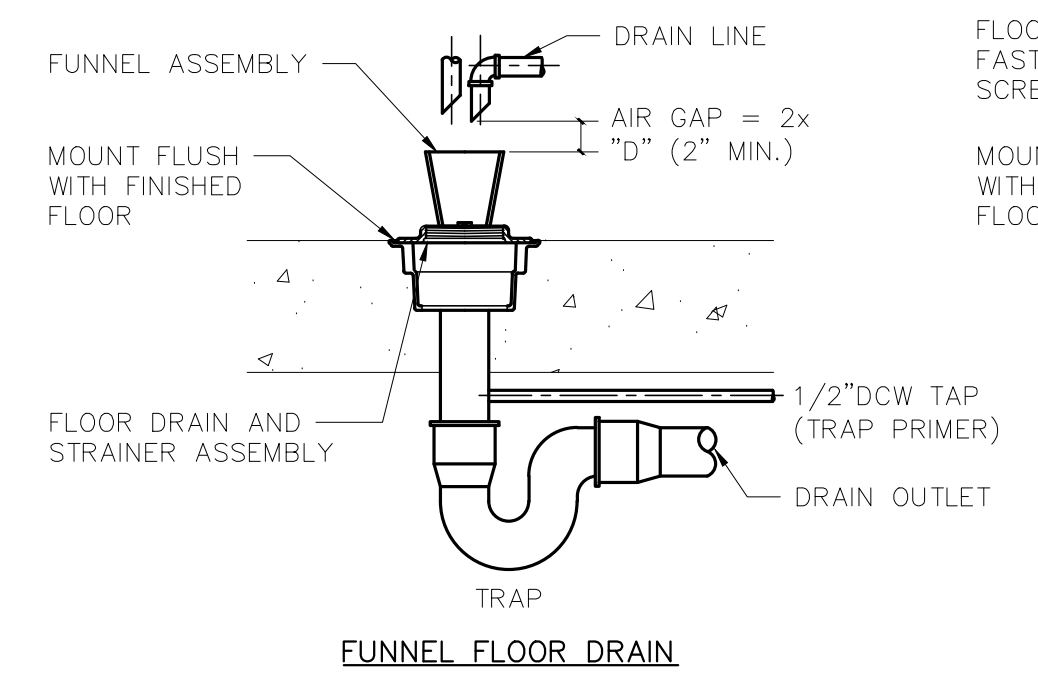
2 CONDENSATE DRAIN DETAIL
P-104 SCALE: NONE (MECHANICAL/PLUMBING EQUIPMENT)



3 SAWCUT DETAIL
P-104 SCALE: NONE

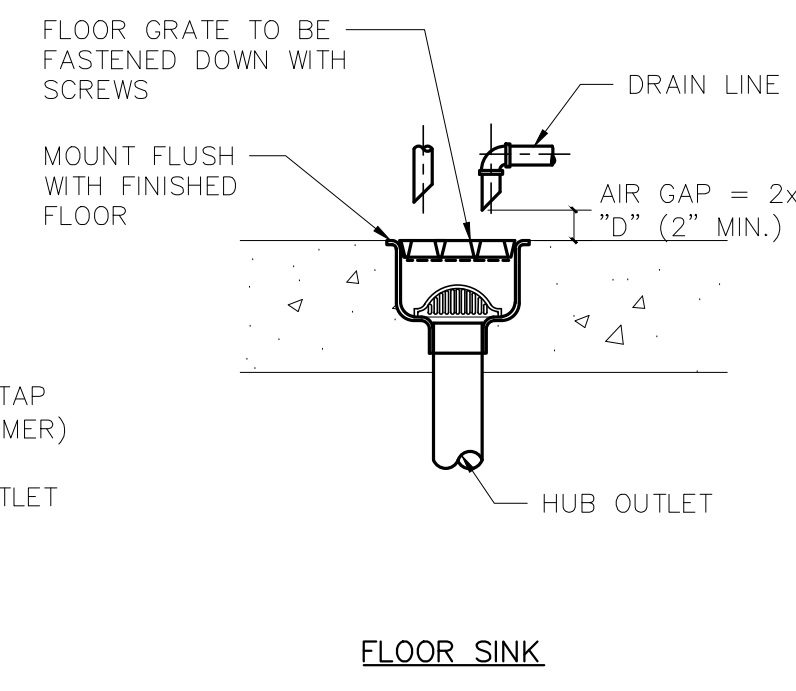


4 LAVATORY/HAND SINK WATER DETAIL
P-104 SCALE: NONE

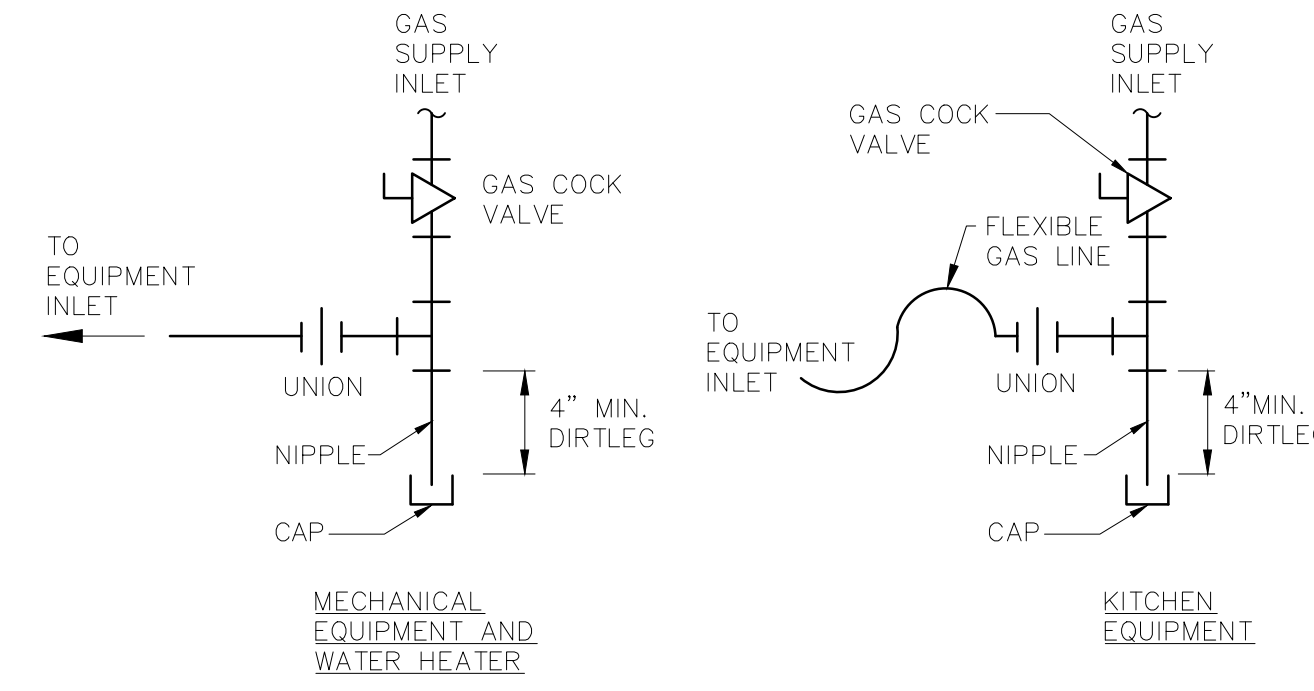


NOTE:
A. PROVIDE OPENING IN DRAIN COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

5 FLOOR DRAIN/FLOOR SINK
P-104 SCALE: NONE

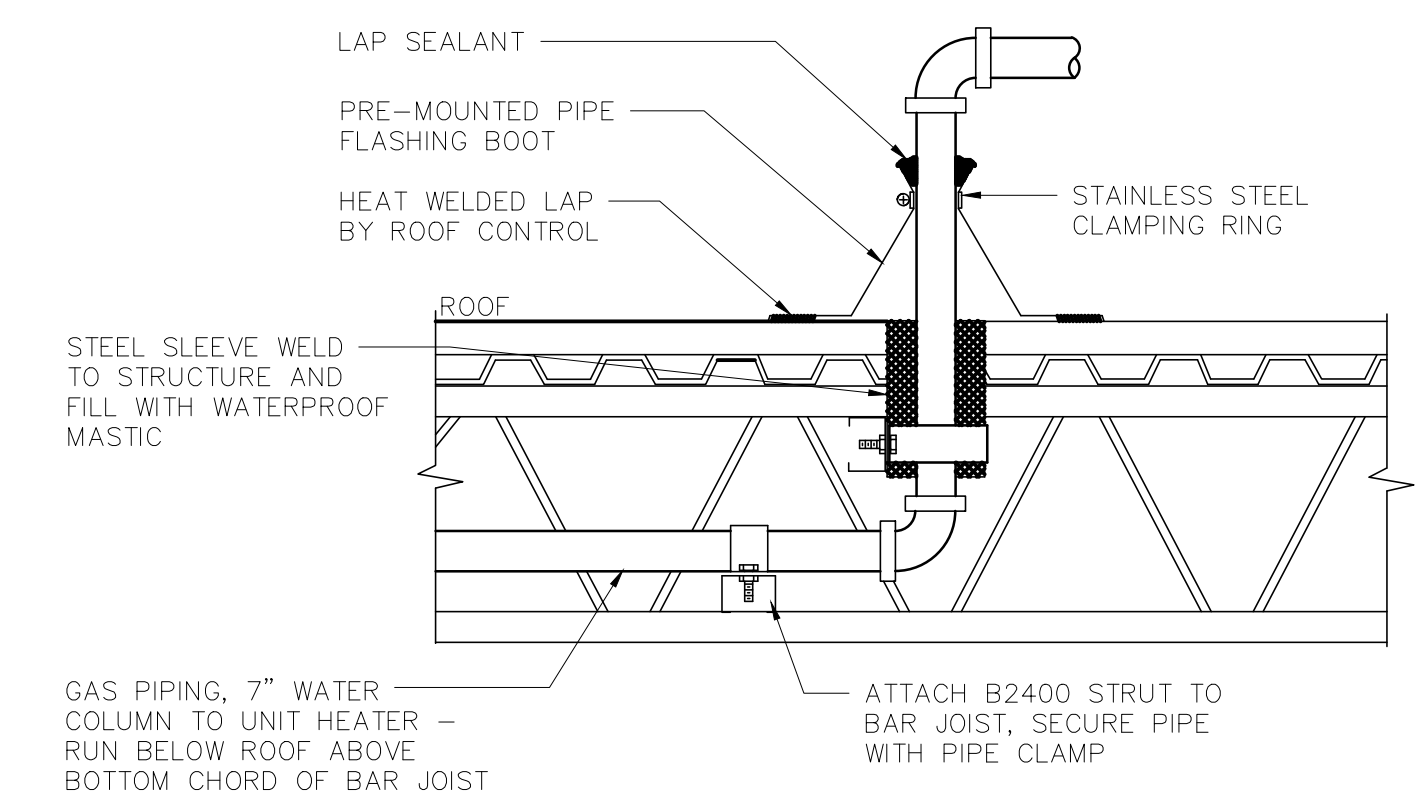


NOTE:
A. PROVIDE OPENING IN DRAIN GRATE (PREVENT SPLASHING).

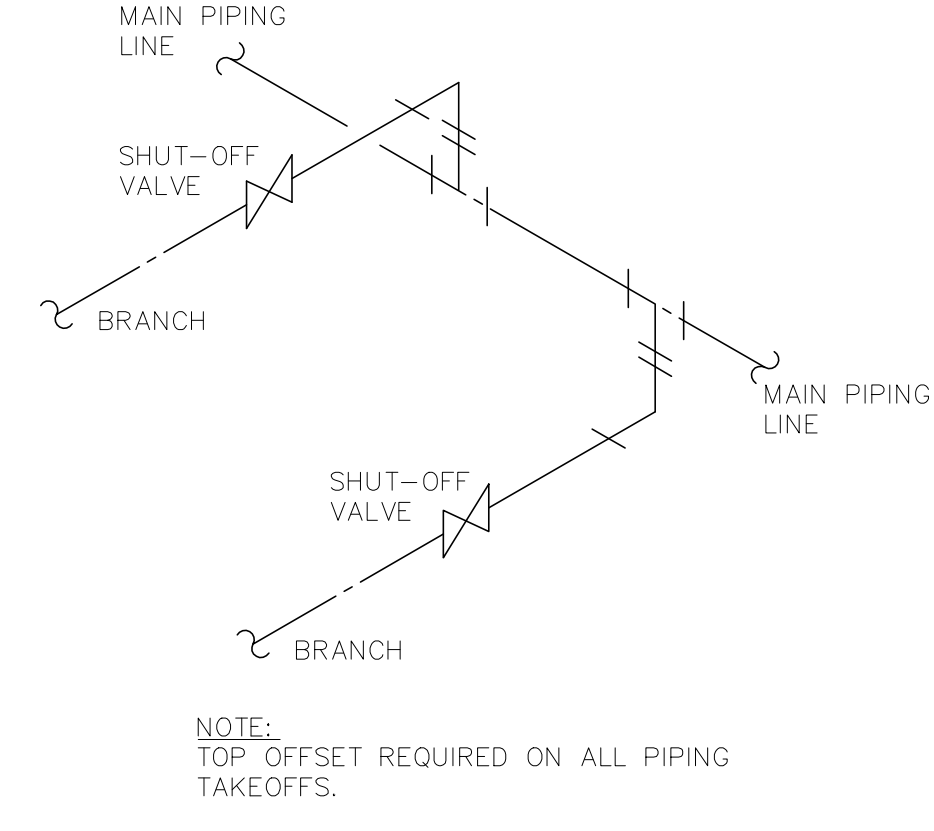


NOTE:
INSTALL FLEXIBLE GAS LINE CONNECTION TO DRYER AND RANGE EQUIPMENT PER NFPA 54.

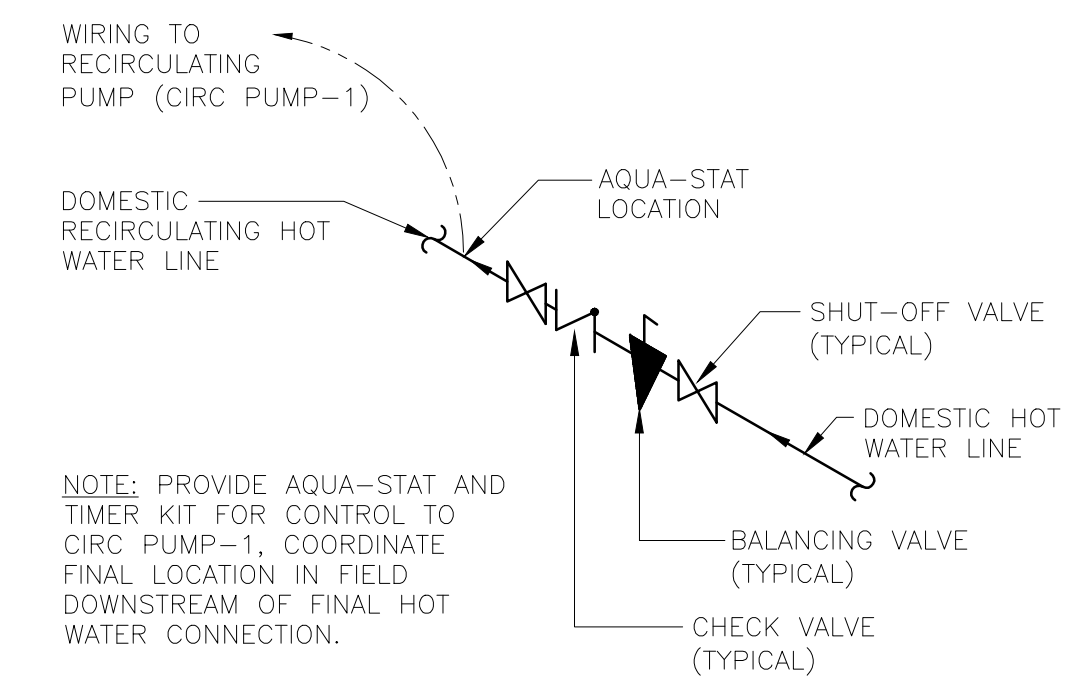
6 GAS LINE CONNECTIONS
P-104 SCALE: NONE



7 GAS PIPE THROUGH ROOF DETAIL
P-104 SCALE: NONE

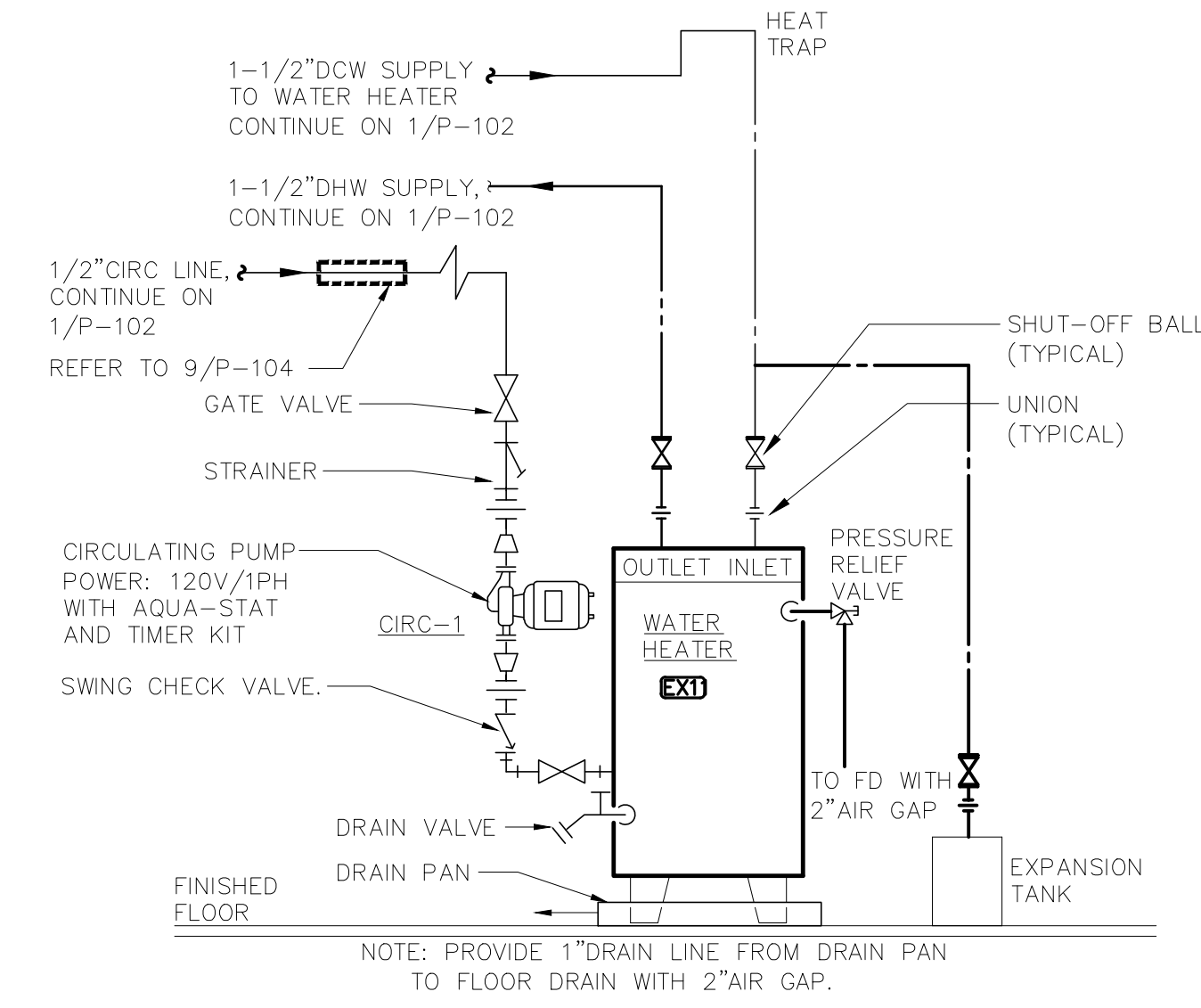


8 PIPE TAKE-OFF
P-104 SCALE: NONE

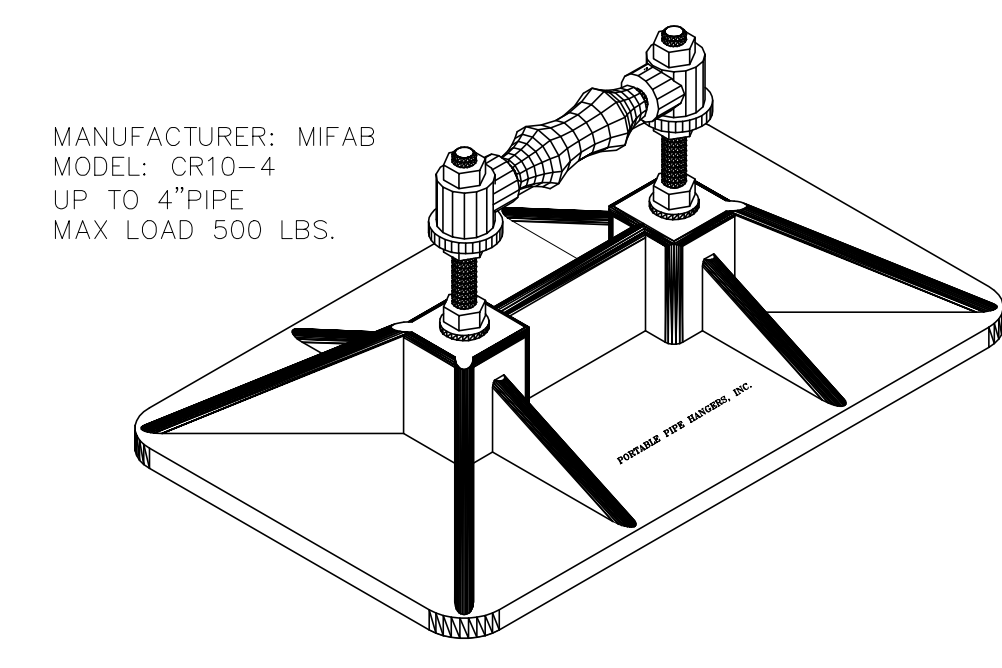


NOTE: PROVIDE AQUA-STAT AND TIMER KIT FOR CONTROL TO CIRC PUMP-1. COORDINATE FINAL LOCATION IN FIELD DOWNSTREAM OF FINAL HOT WATER CONNECTION.

9 CIRCULATING PIPING DETAIL
P-104 SCALE: NONE

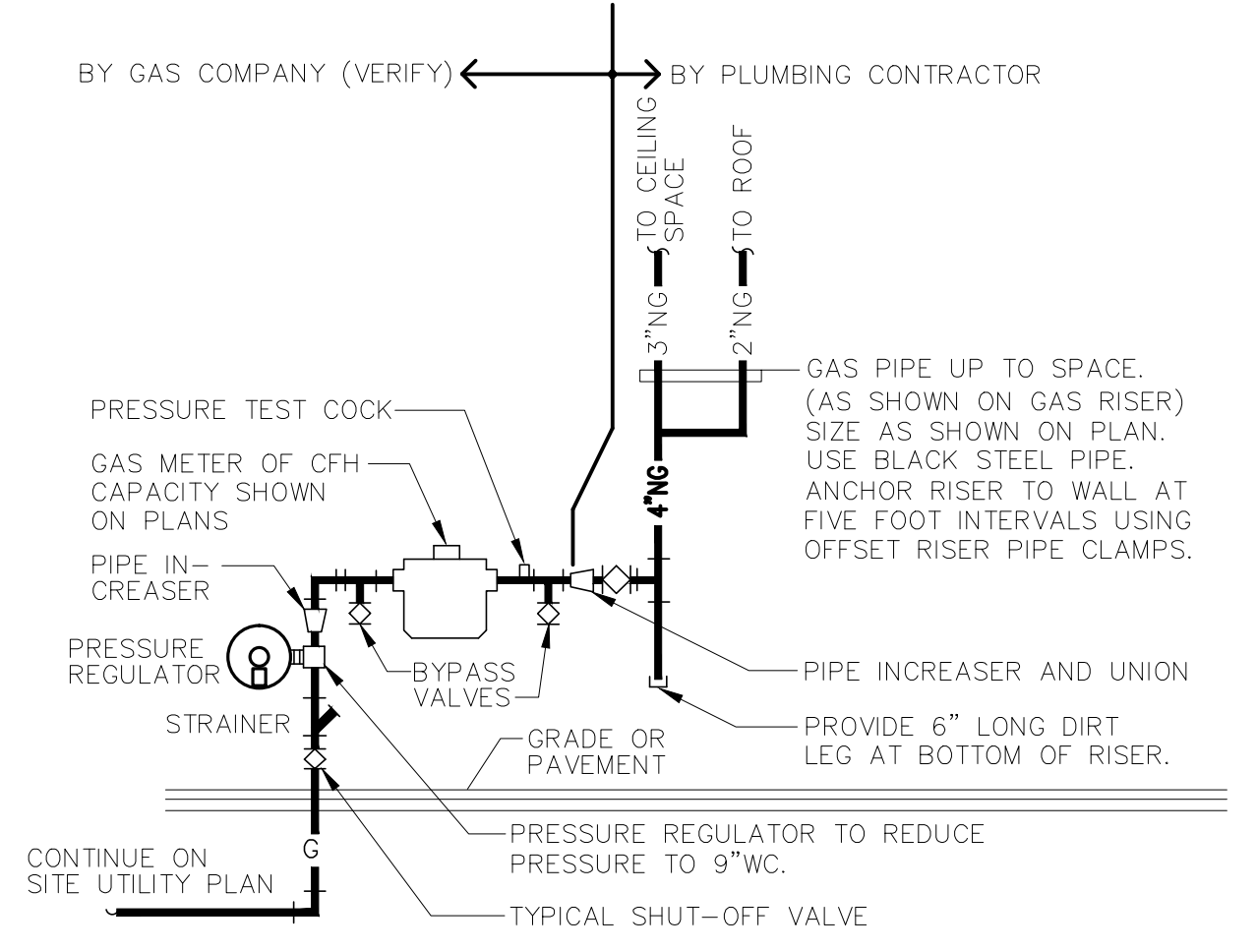


10 WATER HEATER DETAIL
P-104 SCALE: NONE



NOTES:
1. SUPPORTS MANUFACTURER - MIFAB C-PORT.
2. SUPPORTS AND PADS TO BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
3. DISTANCE BETWEEN SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.

11 GAS LINE SUPPORT DETAIL
P-104 SCALE: NONE



VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR COMPLETE INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS. GAS COMPANY SHALL EXCAVATE, BACKFILL AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.

12 NATURAL GAS METER DETAIL
P-104 SCALE: NONE

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Wind Buffalo Renovation
7566 Transit Rd.
Amherst, NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

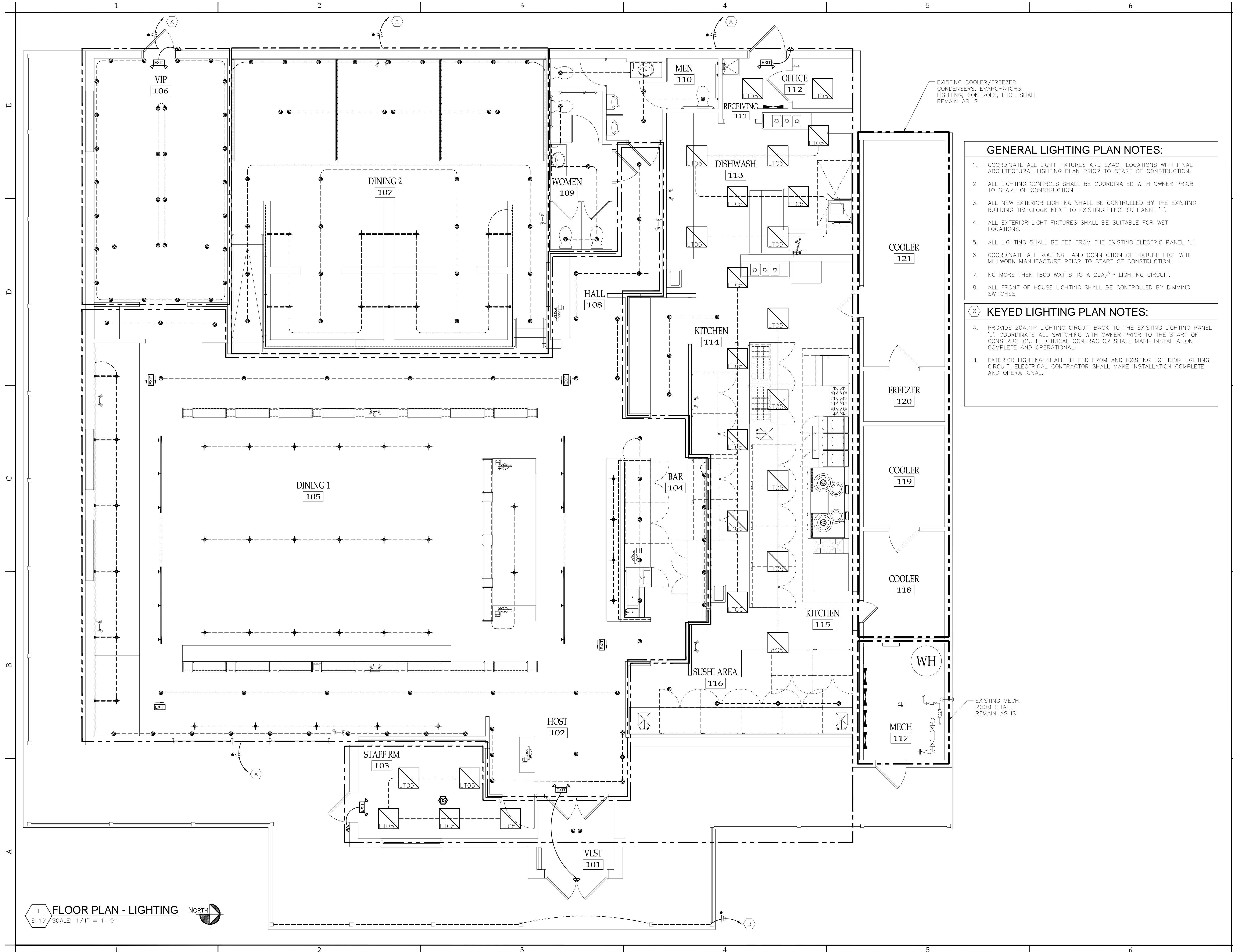
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TITLE:
FLOOR PLAN - LIGHTING

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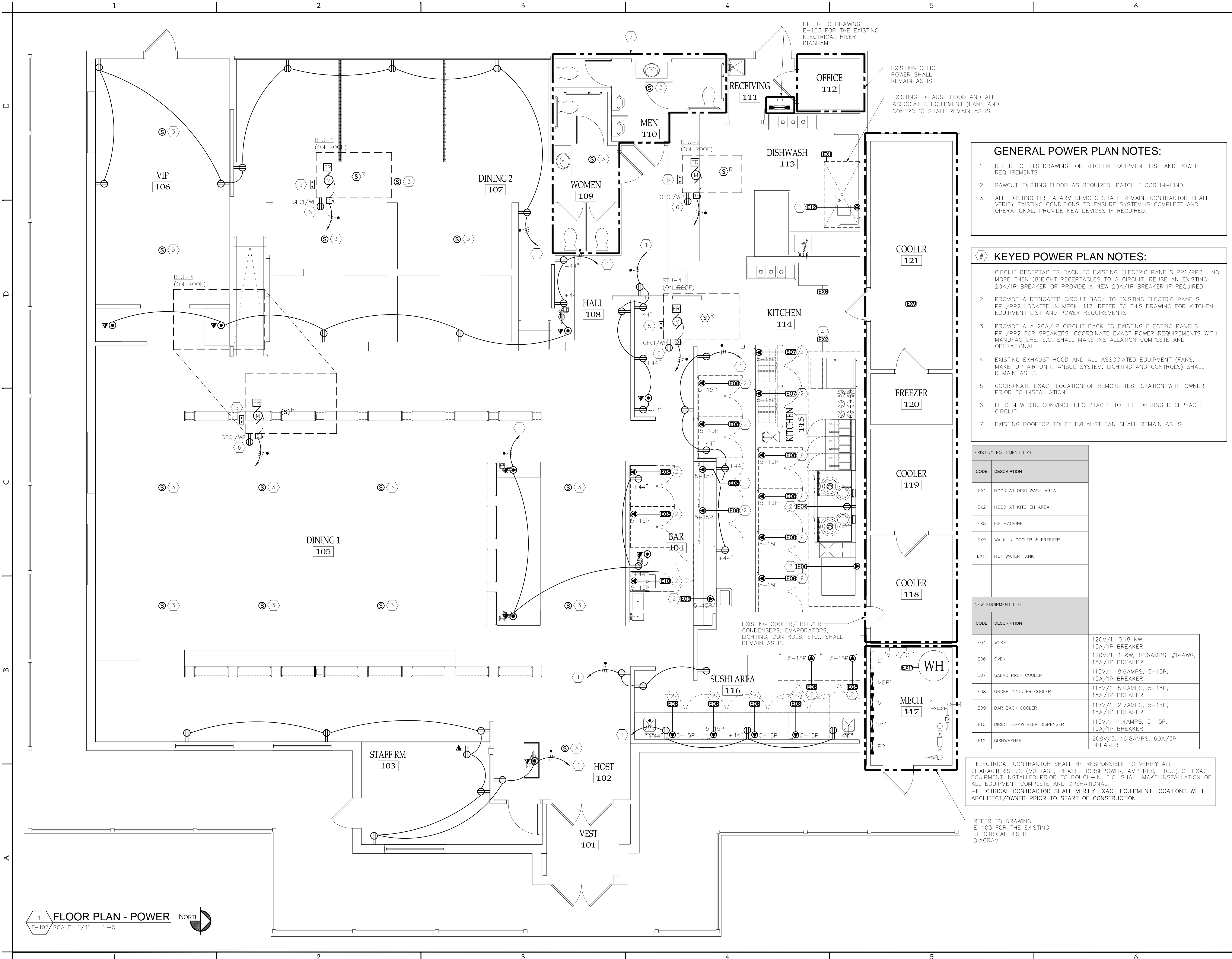
DRAWING #: **E-101**

- GENERAL LIGHTING PLAN NOTES:**
- COORDINATE ALL LIGHT FIXTURES AND EXACT LOCATIONS WITH FINAL ARCHITECTURAL LIGHTING PLAN PRIOR TO START OF CONSTRUCTION.
 - ALL LIGHTING CONTROLS SHALL BE COORDINATED WITH OWNER PRIOR TO START OF CONSTRUCTION.
 - ALL NEW EXTERIOR LIGHTING SHALL BE CONTROLLED BY THE EXISTING BUILDING TIMECLOCK NEXT TO EXISTING ELECTRIC PANEL 'L'.
 - ALL EXTERIOR LIGHT FIXTURES SHALL BE SUITABLE FOR WET LOCATIONS.
 - ALL LIGHTING SHALL BE FED FROM THE EXISTING ELECTRIC PANEL 'L'.
 - COORDINATE ALL ROUTING AND CONNECTION OF FIXTURE LTO1 WITH MILLWORK MANUFACTURE PRIOR TO START OF CONSTRUCTION.
 - NO MORE THEN 1800 WATTS TO A 20A/1P LIGHTING CIRCUIT.
 - ALL FRONT OF HOUSE LIGHTING SHALL BE CONTROLLED BY DIMMING SWITCHES.
- KEYED LIGHTING PLAN NOTES:**
- PROVIDE 20A/1P LIGHTING CIRCUIT BACK TO THE EXISTING LIGHTING PANEL 'L'. COORDINATE ALL SWITCHING WITH OWNER PRIOR TO THE START OF CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL MAKE INSTALLATION COMPLETE AND OPERATIONAL.
 - EXTERIOR LIGHTING SHALL BE FED FROM AN EXISTING EXTERIOR LIGHTING CIRCUIT. ELECTRICAL CONTRACTOR SHALL MAKE INSTALLATION COMPLETE AND OPERATIONAL.

EXISTING COOLER/FREEZER CONDENSERS, EVAPORATORS, LIGHTING, CONTROLS, ETC.. SHALL REMAIN AS IS.

EXISTING MECH. ROOM SHALL REMAIN AS IS

1 FLOOR PLAN - LIGHTING NORTH
 E-101 SCALE: 1/4" = 1'-0"



1 FLOOR PLAN - POWER NORTH
 E-102 SCALE: 1/4" = 1'-0"

GENERAL POWER PLAN NOTES:

- REFER TO THIS DRAWING FOR KITCHEN EQUIPMENT LIST AND POWER REQUIREMENTS.
- SAWCUT EXISTING FLOOR AS REQUIRED. PATCH FLOOR IN-KIND.
- ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO ENSURE SYSTEM IS COMPLETE AND OPERATIONAL. PROVIDE NEW DEVICES IF REQUIRED.

KEYED POWER PLAN NOTES:

- CIRCUIT RECEPTACLES BACK TO EXISTING ELECTRIC PANELS PP1/PP2. NO MORE THEN (8)EIGHT RECEPTACLES TO A CIRCUIT. REUSE AN EXISTING 20A/1P BREAKER OR PROVIDE A NEW 20A/1P BREAKER IF REQUIRED.
- PROVIDE A DEDICATED CIRCUIT BACK TO EXISTING ELECTRIC PANELS PP1/PP2 LOCATED IN MECH. 117. REFER TO THIS DRAWING FOR KITCHEN EQUIPMENT LIST AND POWER REQUIREMENTS
- PROVIDE A 20A/1P CIRCUIT BACK TO EXISTING ELECTRIC PANELS PP1/PP2 FOR SPEAKERS. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURE. E.C. SHALL MAKE INSTALLATION COMPLETE AND OPERATIONAL.
- EXISTING EXHAUST HOOD AND ALL ASSOCIATED EQUIPMENT (FANS, MAKE-UP AIR UNIT, ANSUL SYSTEM, LIGHTING AND CONTROLS) SHALL REMAIN AS IS.
- COORDINATE EXACT LOCATION OF REMOTE TEST STATION WITH OWNER PRIOR TO INSTALLATION.
- FEED NEW RTU CONVENCE RECEPTACLE TO THE EXISTING RECEPTACLE CIRCUIT.
- EXISTING ROOFTOP TOILET EXHAUST FAN SHALL REMAIN AS IS.

EXISTING EQUIPMENT LIST

CODE	DESCRIPTION
EX1	HOOD AT DISH WASH AREA
EX2	HOOD AT KITCHEN AREA
EX8	ICE MACHINE
EX9	WALK IN COOLER & FREEZER
EX11	HOT WATER TANK

NEW EQUIPMENT LIST

CODE	DESCRIPTION	WATTAGE	BREAKER
E04	WOKS	120V/1, 0.18 KW,	15A/1P BREAKER
E06	OVEN	120V/1, 1 KW, 10.6AMPS, #14AWG,	15A/1P BREAKER
E07	SALAD PREP COOLER	115V/1, 8.6AMPS, 5-15P,	15A/1P BREAKER
E08	UNDER COUNTER COOLER	115V/1, 5.0AMPS, 5-15P,	15A/1P BREAKER
E09	BAR BACK COOLER	115V/1, 2.7AMPS, 5-15P,	15A/1P BREAKER
E10	DIRECT DRAW BEER DISPENSER	115V/1, 1.4AMPS, 5-15P,	15A/1P BREAKER
E12	DISHWASHER	208V/3, 46.8AMPS, 60A/3P	BREAKER

-ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERES, ETC...) OF EXACT EQUIPMENT INSTALLED PRIOR TO ROUGH-IN. E.C. SHALL MAKE INSTALLATION OF ALL EQUIPMENT COMPLETE AND OPERATIONAL.
 -ELECTRICAL CONTRACTOR SHALL VERIFY EXACT EQUIPMENT LOCATIONS WITH ARCHITECT/OWNER PRIOR TO START OF CONSTRUCTION.

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 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
FLOOR PLAN - POWER

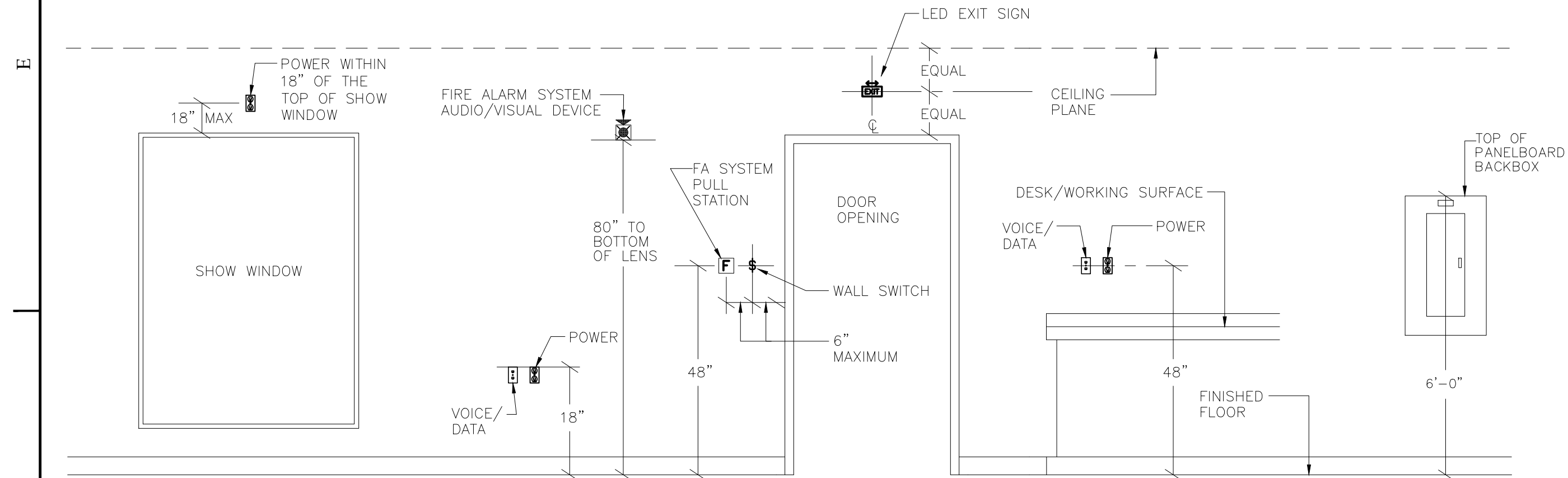


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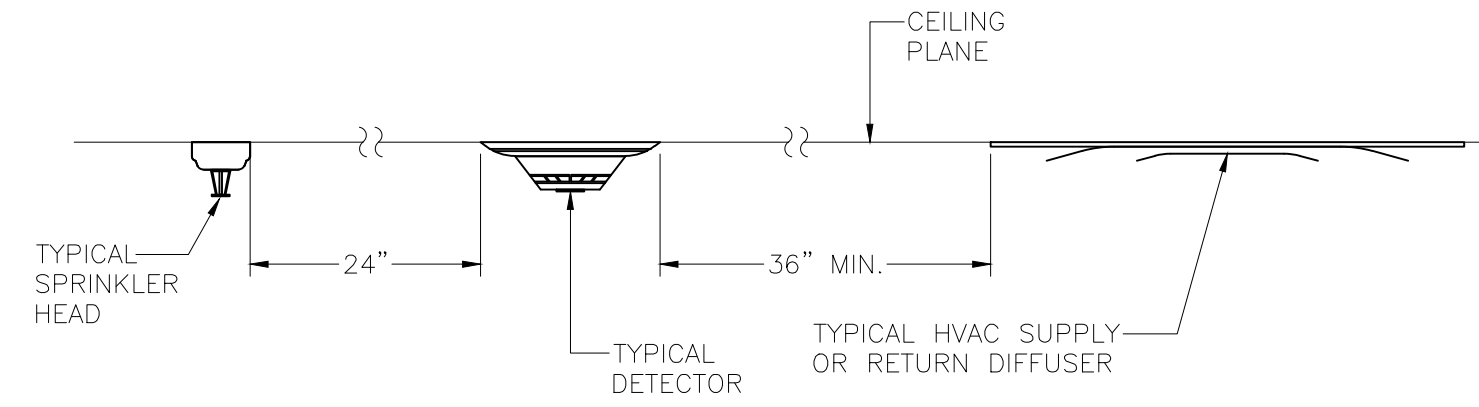
TYPICAL MOUNTING HEIGHTS FOR ELECTRIC WORK

NO SCALE



SMOKE DETECTOR INSTALLATION CLEARANCES

NO SCALE



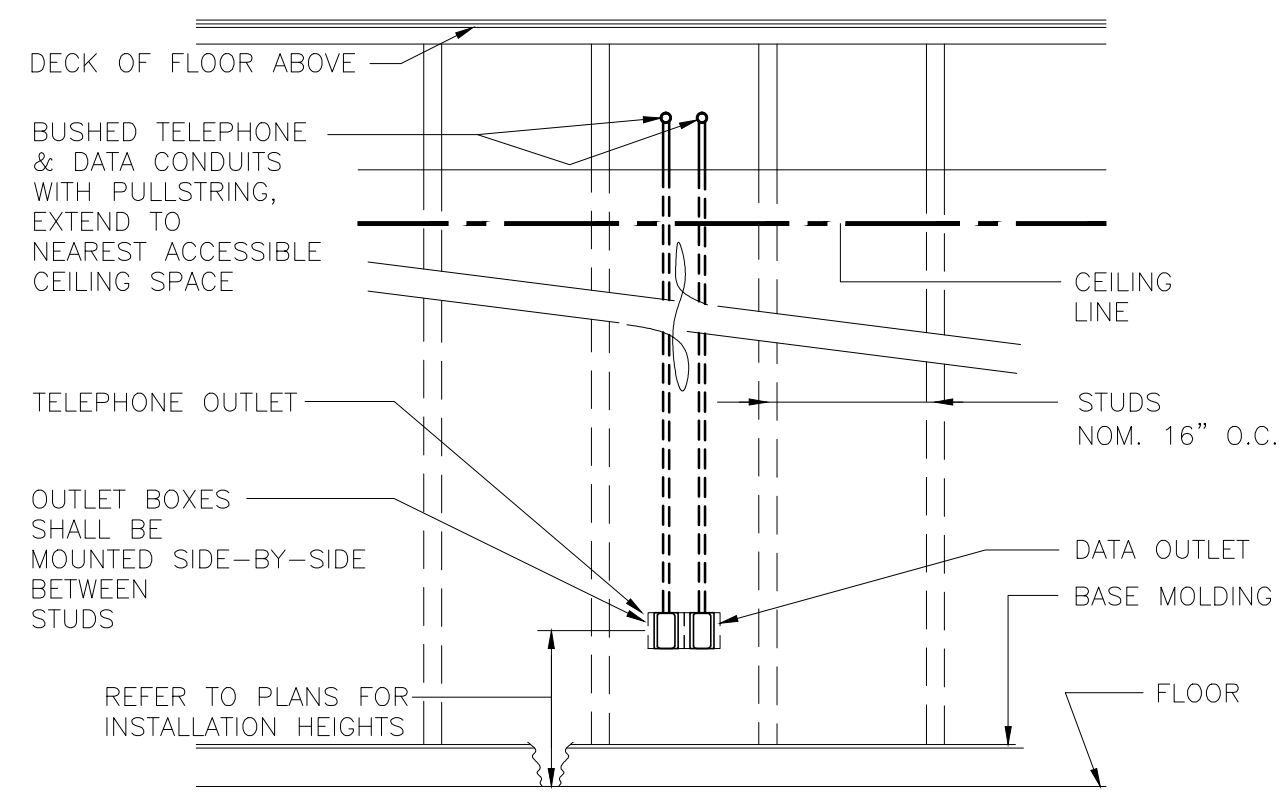
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WORK REQUIRED BY E.C. FOR VOICE/DATA SYSTEMS

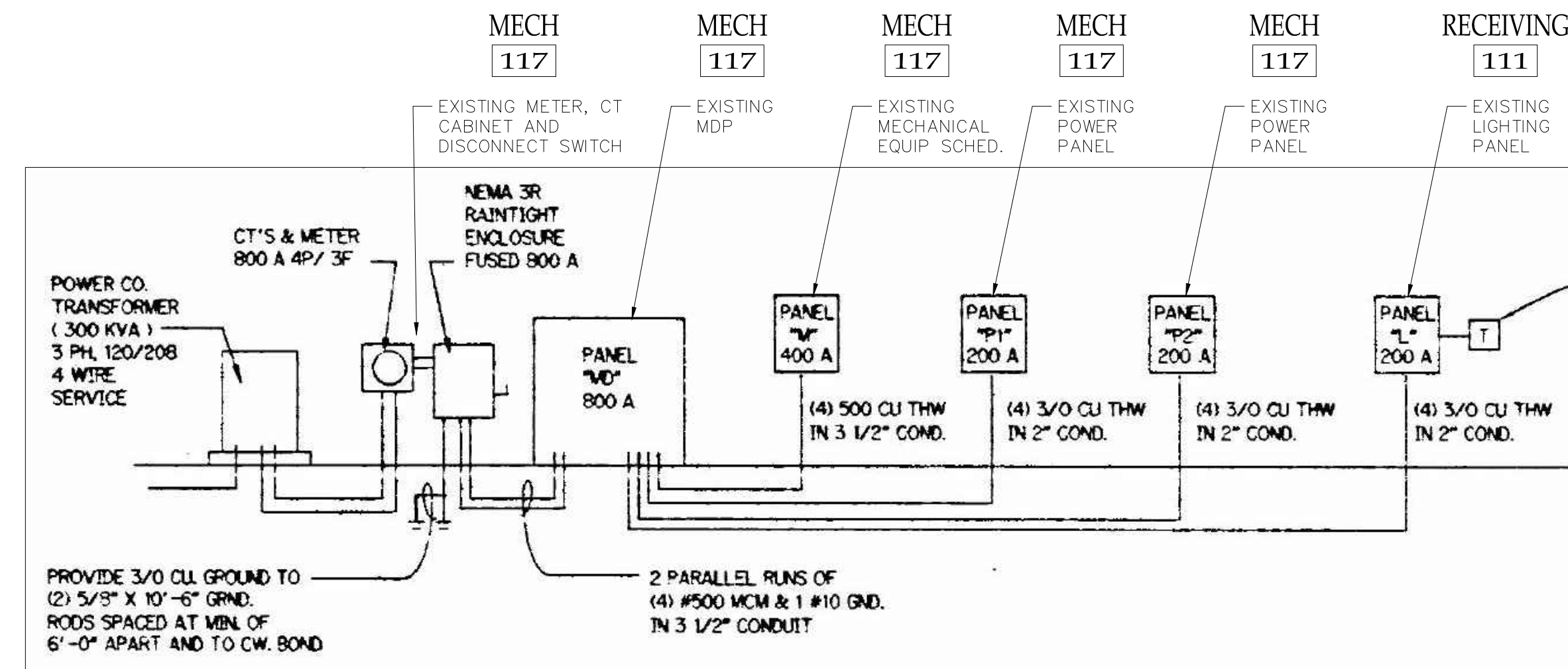
NO SCALE



NOTES:
PROVIDE METAL BOX SUPPORT OR OTHER SUITABLE DEVICE, BEHIND OUTLET BOXES & BETWEEN STUDS, FOR LATERAL & FRONT-TO-BACK SUPPORT.
OUTLET BOXES SHALL BE 4" SQ., WITH SINGLE OR MULTIPLE GANG, RAISED DEVICE COVERS. REFER TO PLANS FOR NUMBERS OF GANGS REQUIRED

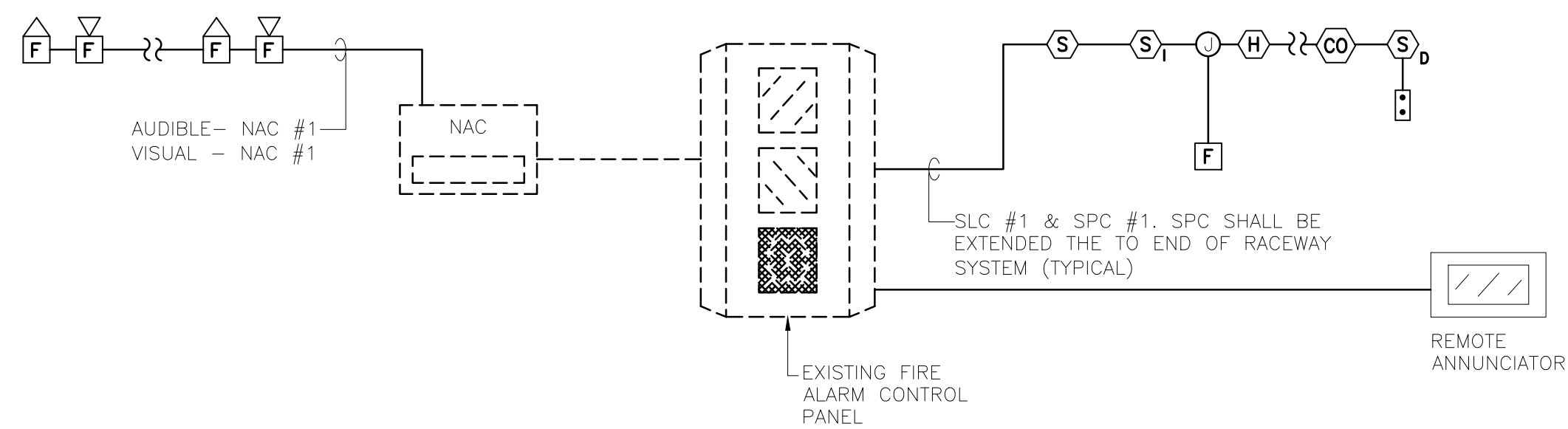
EXISTING ELECTRIC RISER DIAGRAM

NO SCALE



FIRE ALARM RISER DETAIL

NO SCALE



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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

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TITLE:
ELECTRICAL DETAILS

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SA JOB #: 15108.03 DATE:

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ELECTRICAL SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

A. THE INSTRUCTIONS TO BIDDERS, FORM OF BID, FORM OF CONTRACT, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND THE CONTRACT DRAWINGS ARE A PART OF THE SPECIFICATIONS FOR THIS DIVISION OF WORK AND THIS CONTRACTOR SHALL REFER TO THEM FOR INSTRUCTIONS PERTAINING TO HIS WORK.
B. "THE CONTRACTOR", "THIS CONTRACTOR", "EC", AND "DIVISION 16", AS USED IN THESE DRAWINGS AND SPECIFICATIONS, MEANS THE ELECTRICAL CONTRACTOR. "FURNISH AND INSTALL", "SUPPLY", AND "INSTALL", AS USED IN THESE SPECIFICATIONS, MEANS A COMPLETE AND WORKABLE INSTALLATION BY THE E.C.
C. WHERE SPECIFICATIONS AND/OR DRAWINGS CONFLICT WITH ANY CODE REQUIREMENT, CODE REQUIREMENTS SHALL BE FOLLOWED.
D. CODES AND STANDARDS:
1. STATE BUILDING CODE
2. NFPA STANDARDS
3. ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES
4. STATE CONSERVATION CONSTRUCTION CODE
5. LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC 2014)
E. THE ELECTRICAL SYSTEMS COVERED BY THIS CONTRACT INCLUDE, BUT ARE NOT LIMITED TO:
1. BRANCH CIRCUIT WIRING AND RACEWAYS
2. WIRING DEVICES
3. DISCONNECTS
4. MOTOR STARTERS AND MOTOR STARTING EQUIPMENT
5. GROUNDING AND BONDING
6. LIGHTING FIXTURES AND LAMPS
7. ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING PANELBOARDS, OVERCURRENT DEVICES, AND FEEDERS
8. EXISTING CONSTRUCTION AND COORDINATION OF DEMOLITION WORK
9. CONNECTIONS TO HVAC, PLUMBING, FIRE PROTECTION, AND ALL OTHER ELECTRICALLY SUPPLIED EQUIPMENT, CONTROLS, CONTROL PANELS, MOTOR STARTERS, MOTOR STARTING EQUIPMENT AND DISCONNECTS NOT FURNISHED UNDER HVAC, PLUMBING, FIRE PROTECTION, OR OTHER CONTRACTS
F. PAY FOR ALL PERMITS, INSPECTION FEES, LICENSES AND FOR TESTS WHICH MAY BE REQUIRED IN DETERMINING THE COMPLETENESS OF THE ELECTRICAL WORK.
G. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL).
H. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL CONFORM TO APPLICABLE STANDARD OF THE NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA).
I. ALL ELECTRICAL INSTALLATION AND PRODUCTS USED ON THIS PROJECT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC).
J. THE PLANS SHOW THE APPROXIMATE LOCATION OF ALL PARTS OF THE WORK. THE ARCHITECT WILL GIVE EXACT LOCATIONS, WHERE STRUCTURAL CONDITIONS ENCOUNTERED NECESSITATE MINOR CHANGES, THESE SHALL BE MADE WITHOUT CHARGE, BUT MUST MEET WITH THE APPROVAL OF THE ARCHITECT. WHERE MAJOR CHANGES ARE REQUIRED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
K. NOTIFY THE ARCHITECT, AND OBTAIN APPROVAL, BEFORE ANY COMPONENTS OF THE ELECTRICAL SYSTEM ARE CONCEALED BY CLOSING OFF AREAS, POURING CONCRETE, ETC.
L. DETERMINE AND BE RESPONSIBLE FOR PROPER SIZE AND LOCATION OF OPENINGS AND CHASES, AND GIVE GENERAL CONTRACTOR NOTICE OF REQUIREMENTS. INSTALL ALL SLEEVES NECESSARY FOR THE WORK, WHEREVER ANY RACEWAY PASSES THROUGH A WALL, THE OPENING SHALL BE SEALED TIGHT AGAINST THE RACEWAY BY THIS CONTRACTOR; RACEWAYS THROUGH FOUNDATION WALLS AND ROOFS SHALL BE SEALED WATER TIGHT BY THIS CONTRACTOR.
M. THIS CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND PATCHING WHICH IS NOT CALLED TO BE DONE UNDER ANOTHER DIVISION. ALL CUTTING AND REPAIRING SHALL BE PERFORMED BY SKILLED WORKERS.
N. PAINT ALL EXPOSED RACEWAYS IN FINISHED ROOMS WITH TWO COATS OF PAINT TO MATCH SURROUNDINGS. INSTALL PANELBOARD TRIMS, CABINETS, ENCLOSURES, ETC., IN SUFFICIENT TIME SO THAT THE PAINTING CONTRACTOR MAY PAINT THESE SURFACES WITH THE WALLS. THIS CONTRACTOR SHALL PAY FOR ALL LIGHTING PAINTING IF THE ABOVE PROCEDURE IS NOT FOLLOWED.
O. THE CONTRACTOR SHALL FURNISH AND INSTALL THE POWER AND LIGHTING REQUIRED FOR THE CONSTRUCTION THE SCOPE SHALL INCLUDE, BUT NOT LIMITED TO:
1. TEMPORARY POWER DISTRIBUTION
2. LAMP SOCKETS AND LAMPS
3. OUTLETS AND CONSTRUCTION EQUIPMENT CONNECTION INCLUDING WELDERS
4. REMOVAL OF TEMPORARY DISTRIBUTION AFTER COMPLETION OF CONSTRUCTION
P. THE ELECTRICAL CONTRACTOR SHALL INSTALL RACEWAYS IN SUCH A MANNER THAT THE EXPANSION JOINTS OF THE BUILDING WILL FUNCTION PROPERLY AND NOT STRESS ANY ELECTRICAL RACEWAYS. EXPANSION JOINTS SHALL BE INSTALLED IN ALL RACEWAYS AT THE EXPANSION JOINTS OF THE BUILDING.
Q. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS; ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION BEFORE PROCEEDING WITH THE WORK.
R. PROVIDE PRODUCT DATA, CATALOG CUT SHEETS WITH MFG. SPECIFICATIONS FOR REVIEW BY ARCH./ENGR. FOR THE FOLLOWING ITEMS:
1. PANELBOARDS
2. SAFETY DISCONNECT SWITCHES
3. OUTLET BOXES
4. FITTINGS
5. LIGHTING FIXTURES
6. LAMPS
7. CONDUCTORS
8. DEVICES
9. TIME SWITCHES
10. TRANSFORMERS
11. FIRE ALARM SYSTEM
S. PROVIDE (3) SUBMITTAL COPIES FOR EACH ITEM LISTED ABOVE.
T. MAINTAIN THROUGHOUT PROJECT A SET OF PLANS WHICH ACCURATELY PORTRAY THE ACTUAL INSTALLATION, INCLUDING LOCATION OF ALL WIRING, EQUIPMENT, CIRCUIT NUMBERS, ETC. TURN OVER TO OWNER AT COMPLETION OF JOB.
U. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT SHALL HAVE TERMINALS RATED FOR 75° C OPERATION.

RACEWAYS AND FITTINGS

A. WHERE CALLED FOR ON THE DRAWINGS, FLOOR OUTLET BOXES AND POKE-THROUGH DEVICE SHALL BE AS MANUFACTURED BY HUBBELL, WALKER, OR LEW.
B. WIRING AND RACEWAYS SHALL BE CONCEALED IN ALL ROOMS AND SPACES UNLESS OTHERWISE NOTED.
C. ALL FEEDERS AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN EMT, WHERE ALLOWED, BRANCH CIRCUITS MAY BE TYPE MC CABLE BETWEEN HOMERUN JUNCTION BOX AND EQUIPMENT/DEVICE CONNECTION IN DRYWALL PARTITIONS ONLY, HOMERUN JUNCTION BOX TO BE A MAXIMUM OF 20 FT. FROM EQUIPMENT/DEVICE.

D. FOR USE IN UNFINISHED AREAS: WIRE IN SURFACE MOUNTED RGS CONDUIT.
E. FOR OUTDOOR USE: WIRE IN THREADED, RIGID STEEL CONDUIT.
F. FOR UNDERGROUND USE: WIRE IN SCHEDULE 80 RIGID PVC NONMETALLIC CONDUIT.
G. FOR FINAL CONNECTION IN DAMP OR WET LOCATIONS: LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH LISTED FITTINGS.
H. NOT USED
I. IN ALL INSTANCES, INCLUDE A SEPARATE GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT, SIZE PER NEC.
J. FURNISH ALL FITTINGS REQUIRED, BUT NOT LIMITED TO: BUSHINGS TO PREVENT WIRE ABRASION; SINGLE-AND MULTIPLE-GANG BOXES TO ACCOMMODATE DEVICE INSTALLATION; ADAPTERS FROM CONDUIT TO RACEWAY; TRANSITIONS TO BOTH LARGER AND SMALLER SURFACE METAL RACEWAYS; 90 DEGREE ELBOWS, TEES, FIXTURE BOXES, AND FLEXIBLE SECTIONS.
K. SURFACE METAL RACEWAY AND FITTINGS SHALL MEET ALL REQUIREMENTS OF NEC ARTICLE 352A AND SHALL BE UL LISTED.
L. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION, INSTALLATION, AND LOCATION OF ALL NECESSARY AND REQUIRED INSERTS, SUPPORTS, AND ANCHOR BOLTS, AND FOR A SATISFACTORY RACEWAY SYSTEM UPON COMPLETION OF THE PROJECT.
M. WHERE ANY COMPONENT OF THE RACEWAY SYSTEM IS DAMAGED PRIOR TO FINAL ACCEPTANCE BY THE OWNER, THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE SAME OR PROVIDE A NEW RACEWAY SYSTEM, AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
N. CONDUITS SHALL BE RUN TO AVOID ADVERSE CONDITIONS SUCH AS HEAT AND MOISTURE AND TO AVOID ALL MATERIAL AND EQUIPMENT OF OTHER TRADES. CONDUITS SHALL MAINTAIN A MINIMUM CLEARANCE OF SIX INCHES FROM ALL HOT WATER PIPES, FLUES, OR AND HIGH TEMPERATURE PIPING OR DUCTWORK. SHOULD IT BE FOUND NECESSARY TO INSTALL CONDUIT CLOSER THAN THIS TO HOT WATER PIPES AN INSULATING COVERING SHALL BE USED TO PROTECT THE CONDUIT FROM HIGH TEMPERATURE.
O. RACEWAYS SHALL NOT BE SMALLER THAN THE SIZE REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR THE CONDUCTORS ENCLOSED AND SHALL BE LARGER WHERE SO SPECIFIED OR INDICATED ON THE PLANS.
P. ALL EXPOSED RUNS OF CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR CEILINGS. SUPPORTS SHALL BE FROM THE MASONRY OR STEEL STRUCTURE RATHER THAN FROM OTHER MECHANICAL WORK SUCH AS DUCTS, PIPING, ETC., IN ACCORDANCE WITH GOOD INDUSTRY PRACTICE IN A MANNER ACCEPTABLE TO THE ARCHITECT.
Q. SUPPORTS AND ATTACHMENTS PROVIDED SHALL BE SPECIFICALLY DESIGNED FOR THE APPLICATIONS. PERFORATED HANGERS OR WIRE TIE SUPPORTS ARE NOT ACCEPTABLE. ALL HANGERS AND SUPPORTS SHALL HAVE CORROSION RESISTANT FINISH.
R. ALL CONDUITS AND RACEWAYS PASSING THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE SLEEVED WITH A PIECE OF SCHEDULE 40 GALVANIZED STEEL PIPE WITH PLAIN ENDS. ALL SLEEVES SHALL BE SEALED WATER TIGHT USING A MATERIAL SIMILAR IN APPEARANCE TO THE SURROUNDING AREA OR APPROVED MATERIAL.
S. CONDUITS EXTENDING THROUGH ROOFS SHALL BE EQUIPPED WITH PITCH POCKETS.
T. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A NYLON PULLWIRE.
U. ALL CONDUIT PASSING THROUGH A FIRE ZONE SHALL HAVE A FIRE RATED INSTALLATION.
V. CONDUIT SHALL BE INSTALLED SO THAT A CONTINUOUS GROUNDING SYSTEM WILL BE MAINTAINED FROM THE FURTHEMOST OUTLET TO THE ESTABLISHED WATER PIPE GROUND.
W. CONDULETS, UNILETS, OR SIMILAR APPROVED TYPE FITTINGS SHALL BE USED ON EXPOSED WORK WHERE CONDUIT CHANGES DIRECTION AND WHERE BENDS WILL NOT MAKE A NEAT JOB.
X. EXPOSED CONDUIT SHALL BE SECURELY FASTENED TO THE BUILDING AT EIGHT-FOOT MINIMUM INTERVALS, USING APPROVED HANGERS, STRAPS, CLAMPS, OR SCREWS. WOOD PLUGS SHALL NOT BE USED FOR FASTENING PURPOSES. CONDUIT RUN ABOVE HUNG CEILING OR IN CRAWL SPACES SHALL BE SUPPORTED IN THE SAME MANNER AS FOR EXPOSED RUNS. WIRE TIES ARE NOT ACCEPTABLE SUPPORTS.
Y. CARE SHALL BE EXERCISED TO MAKE CERTAIN THAT THE CONDUIT SYSTEM NOW PLANNED WILL PERMIT REMOVAL OF CONDUCTORS FOR FUTURE CHANGES AS MAY BE REQUIRED. ALTHOUGH UP TO FOUR 90 DEGREE BENDS ARE PERMITTED BY THE NATIONAL ELECTRICAL CODE, THE PRACTICE OF USING MORE THAN THREE 90 DEGREE BENDS PER RUN SHALL BE AVOIDED. PULL BOXES SHALL BE USED IF AT ALL FEASIBLE.
Z. PULLBOXES SHALL BE INSTALLED AT 100 FOOT INTERVALS IN LONG STRAIGHT RUNS. CLOSE NIPPLES WILL NOT BE PERMITTED.
AA. CONDUIT SMALLER THAN 1/2" SHALL NOT BE USED.
THE REQUIRED STRENGTH OF THE SUPPORTING EQUIPMENT AND THE SIZE AND TYPE OF ANCHORS SHALL BE BASED ON THE COMBINED WEIGHT OF CONDUIT, HANGERS, AND CONDUCTORS. THE USE OF PERFORATED IRON STRAPS FOR SUPPORTING CONDUITS WILL NOT BE PERMITTED.
BB. SINGLE RUNS:
1. WHERE CONDUITS ARE RUN INDIVIDUALLY, THEY SHALL BE SUPPORTED BY APPROVED PIPE STRAPS, SECURED BY MEANS OF TOGGLE BOLTS
2. IN HOLLOW MASONRY; EXPANSION SHIELDS AND MACHINE SCREWS OR STANDARD PRESET INSERTS IN CONCRETE OR SOLID MASONRY; MACHINE SCREWS OR BOLTS IN METAL SURFACES; AND WOOD SCREWS IN WOOD CONSTRUCTION. THE USE OF PERFORATED IRON STRAPS WILL NOT BE PERMITTED.
3. CONDUITS INSTALLED EXPOSED ON THE SURFACE IN DAMP LOCATIONS OR IN REFRIGERATED AREAS SHALL BE PROVIDED WITH CLAMP BACKS UNDER EACH CONDUIT CLAMP TO PREVENT ACCUMULATION OF MOISTURE AROUND THE CONDUITS.
WHERE INDIVIDUAL CONDUITS ARE SUSPENDED FROM THE CEILING THEY SHALL BE SUPPORTED BY HANGERS EQUIVALENT TO STEEL CITY NO. C-149.
CC. MULTIPLE RUNS:
1. WHERE A NUMBER OF CONDUITS ARE TO BE RUN EXPOSED AND PARALLEL, ONE WITH ANOTHER, THEY SHALL BE GROUPED AND SUPPORTED BY TRAPEZE HANGERS.
2. HANGER RODS SHALL BE FASTENED TO STRUCTURAL STEEL MEMBERS WITH SUITABLE BEAM CLAMPS, OR TO CONCRETE INSERTS SET FLUSH WITH SURFACE.
DD. THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES, PULLBOXES, AND CABLE SUPPORT BOXES AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, OR AS OTHERWISE REQUIRED. BOXES SHALL BE SECURED IN POSITION INDEPENDENTLY OF CONDUITS ENTERING THEM BY MEANS OF BOLTS, ROD HANGERS, BRACKETS, OR OTHER APPROVED METHODS. OUTLET BOXES SHALL BE SECURELY FASTENED TO CEILINGS, WALLS OR COLUMNS.
EE. BOXES INSTALLED IN FINISHED CEILINGS, WALLS OR COLUMNS SHALL BE SET SO THAT THE FRONT EDGE OF THE BOX SHALL BE FLUSH WITH FINISHED CEILINGS, WALLS OR COLUMNS.
FF. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFIED HEREIN, RECEPTACLE OUTLET CENTERLINES SHALL BE INSTALLED 18" ABOVE THE FLOOR.
GG. PROVIDE FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OR FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

WIRE AND CABLE

A. ACCEPTABLE MANUFACTURERS SHALL BE ANACONDA, GENERAL ELECTRIC, CERRO, OR BRAND RED.
B. ALL CONDUCTORS SHALL BY COPPER, WITH 600 VOLT INSULATION, UNLESS OTHERWISE NOTED; STRANDING AND INSULATION TYPES AS FOLLOWS:
C. BRANCH CIRCUIT FEEDERS
1. #10 AWG AND SMALLER (SOLID) - TYPE THHN/THWN INSULATION.
2. #8 AWG AND LARGER (STRANDED) - TYPE THHN/THWN INSULATION.
D. ALL WIRE AND CABLE SHALL BE NEW, WITHIN ONE YEAR OF MANUFACTURE WHEN DELIVERED TO THE SITE AND BEAR THE UL LABEL, INSULATION TYPE, VOLTAGE, AND MANUFACTURER'S NAME AT REGULAR INTERVALS ON THE INSULATION.
E. ALL WIRING SHALL BE DONE SO THAT THE SYSTEM WILL BE CONTINUOUSLY POLARIZED THROUGHOUT, FOLLOWING THE COLOR CODING INDICATED IN THE NEC.
F. ALL CONNECTIONS USING COPPER SHALL BE MADE WITH CONNECTORS THAT ARE DESIGNED AND APPROVED FOR COPPER.
G. JOINTS, TAPS AND SPLICES OF WIRES OF SIZE #10 AWG AND SMALLER SHALL BE MADE BY MEANS OF "SCOTCHLOK" SPRING CONNECTORS.
H. JOINTS, TAPS AND SPLICES OF WIRES OF SIZE #8 AWG AND LARGER SHALL BE MADE WITH THOMAS AND BETTS ALUMINUM/COPPER COLOR-KEYED COMPRESSION CONNECTORS, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
I. WIRE SIZES SHALL BE AS SHOWN ON THE DRAWINGS OR SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
J. ALL FEEDER CABLES SHALL BE CONTINUOUS FROM ORIGIN TO EQUIPMENT TERMINATION WITHOUT RUNNING SPLICES IN INTERMEDIATE PULL OR SPLICE BOXES AS FAR AS PRACTICABLE. NO SPLICES ARE ALLOWED IN "C" CONDULETS.
K. CONDUCTORS SHALL NOT BE SMALLER THAN CODE SIZE FOR THE LOADS BEING HANDLED AND SHALL BE LARGER IF SO INDICATED IN THE PLANS OR SPECIFICATIONS. NO CONDUCTOR SHALL BE LESS THAN #12 AWG EXCEPT FOR CONTROL CIRCUITS, WHICH MAY BE #14 WIRE WHEN INDICATED.
L. PROVIDE SEPARATE GREEN GROUND (EQUIPMENT GROUND) CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.
M. WIRING IN DUCTS, PLENUMS, AND OTHER AIR HANDLING SPACES SHALL BE PROVIDED PER NEC ART. 300.22 AND ALL OTHER APPLICABLE CODE SECTIONS. WHERE PROVIDED PLENUM CABLE SHALL BE LISTED AS BEING SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR AND SHALL ALSO BE LISTED AS HAVING ADEQUATE FIRE-RESISTANT AND LOW SMOKE-PRODUCING CHARACTERISTICS. WIRING SHALL INCLUDE BUT NOT LIMITED TO POWER, LIGHTING, TELEPHONE, DATA, FIRE ALARM, SECURITY, ETC.
CABINETS, SHEETS, AND FITTINGS
A. USE SHEET STEEL JUNCTION, OUTLET AND PULL BOXES SIZED PER NEC IN ALL DRY LOCATIONS.
B. USE CAST BOXES FOR EXTERIOR USE, WHERE IN CONCRETE FLOORS, AND IN ALL DAMP OR WET LOCATIONS.
C. NOT USED.
D. USE STEEL OR MALLEABLE IRON FITTINGS SPECIFICALLY DESIGNED FOR EACH RACEWAY TYPE, AS DICTATED BY GOOD PRACTICE.
E. IN ALL CASES, ALL CABINETS, JUNCTION AND OUTLET BOXES SHALL BE ACCESSIBLE.
ELECTRICAL CONNECTIONS FOR EQUIPMENT
A. FIXED EQUIPMENT REQUIRING ATTACHMENT PLUGS SHALL BE PROVIDED WITH APPROPRIATE RECEPTACLE TO MATCH PLUG.
B. FIXED EQUIPMENT REQUIRING DIRECT WIRED CONNECTIONS SHALL BE PROVIDED WITH LOCAL JUNCTION BOX, AND FLEXIBLE NONMETALLIC CONDUIT, OR LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT CONNECTIONS TO EQUIPMENT.
C. PROVIDE SEPARATE FUSIBLE DISCONNECT FOR EQUIPMENT NOT FURNISHED WITH INTEGRAL OR FACTORY FURNISHED DISCONNECTING MEANS.
D. PROVIDE MOTOR STARTER FOR EQUIPMENT NOT FURNISHED WITH FACTORY STARTER.
WIRING DEVICES
A. FOR FINISHED AREAS, USE SPECIFICATION GRADE DEVICES, COLOR AS SELECTED BY ARCHITECT, WITH SMOOTH THERMOPLASTIC WALL PLATE, COLOR TO MATCH DEVICE.
B. FOR UNFINISHED DRY INTERIOR SPACES, USE SPECIFICATION GRADE DEVICE IN STEEL UTILITY BOXES WITH MATCHING STEEL DEVICE COVERS.
C. FOR INTERIOR AND EXTERIOR WET LOCATIONS, USE SPECIFICATION GRADE DEVICES INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE", AS MANUFACTURED BY TAYMAC CORP., WITH PUSH-BUTTON RELEASE.
D. RECEPTACLES:
20A, 125V DUPLEX RECEPTACLE: HUBBELL #CR5362
20A, 125V DUPLEX GF RECEPTACLE: HUBBELL #GF5362
20A, 125V DUPLEX IG RECEPTACLE: HUBBELL #R5362IG
E. SWITCHES:
20A, 120/277V A.C. TOGGLE SWITCH: HUBBELL #CS1221
20A, 120/277V A.C. THREE-WAY SWITCH: HUBBELL #CS1223
20A, 120/277V A.C. FOUR-WAY SWITCH: HUBBELL #CS1224
F. MOUNTING: MOUNT DEVICES IN SINGLE OR GANGED ARRANGEMENT, AS CALLED FOR ON THE DRAWINGS. PROVIDE APPROPRIATE STEEL BACKBOX AS REQUIRED; USE SINGLE OR MULTIPLE DEVICE COVERS, AS REQUIRED; MULTIPLE DEVICES TO BE EQUALLY SPACED, AND ALIGNED STRAIGHT SO AS TO ALLOW DEVICE PLATE TO FIT SNUGLY AND PROPERLY.
G. WHERE MOUNTING ON MILLWORK OR OTHER EQUIPMENT, VERIFY PROPER ROUGH-IN DIMENSIONS WITH ARCHITECT.
H. DEVICES IN MECHANICAL EQUIPMENT ROOMS MAY BE WIRED USING SURFACE MOUNTED CONDUIT. DEVICES TO BE INSTALLED AT HEIGHTS TO COMPLY WITH APPLICABLE HANDICAPPED REQUIREMENTS: RECEPTACLES +18" UNLESS OTHERWISE NOTED; WALL SWITCHES +48"; FIRE ALARM PULLSTATIONS +48"; FIRE ALARM AUDIO VISUAL DEVICES +6"-8" TO CENTERLINE OF STROBE UNLESS OTHERWISE NOTED. DIMENSIONS ABOVE FROM FINISHED FLOOR TO CENTERLINE. REFER TO TYPICAL MOUNTING HEIGHT DETAIL ON DRAWINGS FOR FURTHER REQUIREMENTS.
I. MANUFACTURERS: HUBBELL, PASS & SEYMOUR, LEVITON.
SAFETY DISCONNECT DEVICES
A. DISCONNECTION DEVICES RATING SHALL BE AS SHOWN ON THE DRAWINGS, HEAVY-DUTY, "QUICK-MAKE, QUICK-BREAK", SAFETY SWITCHES WITH INTERLOCKING COVER, CONSTRUCTED OF CODE GAGE STEEL (UL 98), ENCLOSURES SHALL BE TREATED WITH RUST INHIBITING PHOSPHATE AND FINISHED IN GRAY BAKED ENAMEL.

B. DISCONNECTS SHALL BE FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY NEC. NUMBER OF POLES, WITH OR WITHOUT SOLID NEUTRAL, SHALL BE AS INDICATED ON THE DRAWINGS, OR AS REQUIRED.
C. ENCLOSURES FOR INDOOR USE SHALL BE NEMA 1; ENCLOSURES FOR EXTERIOR USE SHALL BE NEMA 3R. ENCLOSURES FOR HAZ. LOCATIONS SHALL BE CLASS II DIV. 1 LISTED.
D. DISCONNECTS SHALL REQUIRE THE USE OF A SCREWDRIVER FOR ACCESS TO INTERIOR WITHOUT OPENING CONTACTS.
E. DISCONNECTS SHALL HAVE PROVISIONS FOR PADLOCKING THE SWITCH IN THE "OFF", OR "OPEN" POSITION.
F. ACCEPTABLE MANUFACTURERS ARE SQUARE D, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.
G. FURNISH A SAFETY DISCONNECT DEVICE ON ALL EQUIPMENT CONNECTIONS WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE.
H. DISCONNECTS SHALL BE MOUNTED TO PERMANENT STRUCTURAL ELEMENTS WITH APPROVED FASTENING MEANS. DISCONNECTS SHALL NOT BE FASTENED BY WELDING THE ENCLOSURE TO ITS DESIGNATED STRUCTURAL SUPPORT. BEAM CLAMPS, UNISTRUT AND BOLTED WASHERS COMPRISE ACCEPTABLE FASTENING MEANS.
I. GROUND SERVICE, EQUIPMENT, CIRCUITS PER NEC ART. 250. USE COPPER CONDUCTORS.
J. NAMEPLATES SHALL BE PLASTIC LAMINATE WITH WHITE BACKGROUND AND 1/4" BLACK ENGRAVED LETTERS WITH THE TITLE OF THE EQUIPMENT THAT IS FED. NAMEPLATES SHALL BE ATTACHED USING RIVETS OR NUTS, WASHERS, AND BOLTS.
GROUNDING
A. GROUND SERVICE, EQUIPMENT, CIRCUITS PER NEC ART. 250. USE COPPER CONDUCTORS.
PANELBOARDS
A. SHALL BE UL LISTED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT", WHERE APPLICABLE.
B. PHASE, NEUTRAL AND GROUND BUSES SHALL BE COPPER, AND PHASE BUSES SHALL EXTEND THE ENTIRE HEIGHT OF PANELBOARD, FOR FUTURE INSTALLATION OF ADDITIONAL CIRCUIT BREAKERS, WITHOUT THE NEED FOR CONNECTORS, BUT CIRCUIT BREAKERS CONNECTIONS TO THE BUS SHALL BE BOLT-ON, DOUBLE ROW ARRANGEMENT, DISTRIBUTED PHASE BUS TYPE.
C. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL MAGNETIC, BOLT-ON TYPE, DEAD FRONT DESIGN, WITH QUICK-MAKE, QUICK-BREAK, COMMON TRIP TYPE SINGLE TOGGLE OPERATING MECHANISMS, 1, 2, OR 3 POLE, AND HAGR LISTED WHEN USED FOR HVAC EQUIPMENT, SIZED PER PANELBOARD SCHEDULE.
D. BACKBOXES SHALL BE FABRICATED FROM GALVANIZED, CODE GAGE, SHEET STEEL, MEETING OR EXCEEDING NECESSARY REQUIREMENT FOR WIRE BENDING SPACE, WITHOUT KNOCKOUTS.
E. COVERS SHALL BE DEAD FRONT DESIGN, WITH HINGED DOOR, CONCEALED FASTENERS, FABRICATED FROM CODE GAGE STEEL WITH POINTED ENAMEL FINISH, FLUSH LOCK AND CATCH.
F. PANELBOARD DIRECTORY CARD, WITH CLEAR PLASTIC COVER, SHALL BE PROVIDED ON BACK OR DOOR. CONTRACTOR SHALL COMPLETE DIRECTORY CARD, WITH CIRCUIT BREAKER NUMBERS CROSS REFERENCED TO THEIR RESPECTIVE LOAD(S), BY LOAD TYPE AND ROOM OR SPACE NAME AND NUMBER.
G. PROVIDE PERMANENT LAMACOD OR EQUAL TYPE LABEL INSIDE PANELBOARD DOOR, IDENTIFYING PANELBOARD NAME.
H. DESIGN EQUIPMENT SHALL BE SQUARE D CO. - TYPE NODD FOR 208Y/120V PANELBOARDS; TYPE NF FOR 480Y/277V PANELBOARDS; TYPE I-LINE FOR DISTRIBUTION PANELBOARDS. ALTERNATE MANUFACTURERS ARE: CUTLER-HAMMER/WESTINGHOUSE, OR SIEMENS/ITE.
FUSES
A. PROVIDE INSTANTANEOUS OR TIME DELAY TYPE FUSES FOR EACH FUSIBLE DEVICE, INCLUDING DISCONNECTS, FUSIBLE MOTOR STARTERS, SERVICE SWITCHES. PROVIDE TIME CURRENT CURVES FOR EACH TYPE AND SIZE FUSE USED. PROVIDE ONE SPARE SET OF FUSES FOR EACH SIZE INSTALLED.
B. CARTRIDGE FUSE APPLICATION:
1. MAIN SERVICE: CLASS L FAST ACTING.
2. MAIN FEEDERS: CLASS J TIME DELAY.
3. MOTOR BRANCH CIRCUITS: CLASS RK1 TIME DELAY.
4. OTHER BRANCH CIRCUITS: CLASS RK5 NON-TIME DELAY.
C. MANUFACTURERS: BUSSMAN, EAGLE ELECTRIC, GENERAL ELECTRIC, GOULD.
MOTOR STARTERS
A. FRACTIONAL HORSEPOWER MOTOR CIRCUIT SWITCH FOR MANUALLY CONTROLLED MOTORS LESS THAN 1 H.P. USE MOTOR CIRCUIT SWITCH WITH PILOT LIGHT, WITH THERMAL UNITS, FOR MOTORS NOT EQUIPPED WITH SAME, BASIS FOR DESIGN: SQUARE D TYPE K.
B. MANUAL MOTOR STARTER: FOR MANUALLY CONTROLLED MOTORS 1 H.P. THROUGH 3 H.P., USE INTEGRAL HORSEPOWER MANUAL STARTER, PUSH-BUTTON TYPE, WITH THERMAL UNITS, ONE AUXILIARY N.O./N.C. CONTACT, PILOT LIGHT, BASIS FOR DESIGN: SQUARE D TYPE M.
C. COMBINATION MOTOR STARTER: FOR ALL OTHER MOTORS, OR WHEN INDICATED ON THE DRAWINGS, USE COMBINATION MOTOR STARTER, FUSIBLE DISCONNECT TYPE, WITH OVERLOADS, CONTROL POWER TRANSFORMER AND FUSES, HAND-OFF-AUTO SELECTOR SWITCH, OFF AND RUNNING PILOT LIGHTS, (2) N.O./N.C. AUX. CONTACTS; NEMA 1 ENCLOSURE FOR INDOOR USE, NEMA 4 ENCLOSURE FOR EXTERIOR USE. NON-REVERSING OR REVERSING AS INDICATED ON THE DRAWINGS. SIZE AS REQUIRED FOR MOTOR HORSEPOWER SERVED; LARGER SIZE REQUIRED WHERE A SPECIFIC SIZE IS INDICATED ON THE DRAWINGS. FUSIBLE TYPE SHALL BE FURNISHED, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. BASIS FOR DESIGN: SQUARE D CLASS 8538(FUSIBLE, NON-REVERSING); CLASS 8738(FUSIBLE, REVERSING); CLASS 8539(CIRCUIT BREAKER, NON-REVERSING); CLASS 8739(CIRCUIT BREAKER, REVERSING).
D. MANUFACTURERS: SQUARE-D, GENERAL ELECTRIC, CHALLENGER, SIEMENS.
INTERIOR LIGHTING
A. PROVIDE AND INSTALL ITEMS AS SPECIFIED HEREIN AND LISTED ON THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS.
B. CATALOG NAMES AND NUMBERS USED IN THE LIGHTING FIXTURE SCHEDULE ARE TO ESTABLISH A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION.
C. IF ALTERNATED, OR OPTIONAL, METHODS ARE PROPOSED AS SUBSTITUTION FOR ANY ONE OF THE LIGHTING FIXTURES, THEY MUST BE EQUAL IN DESIGN AND QUALITY, AS DETERMINED BY THE ARCHITECT/ENGINEER. THE DATA SUBMITTED MUST INCLUDE A DESCRIPTION OF THE LIGHTING FIXTURE, LENS, BALLAST, SHEET METAL GAGE, PHOTOMETRIC DATA, ETC.
D. UPON REQUEST OF THE ENGINEER, A SAMPLE OF THE PROPOSED SUBSTITUTION SHALL BE PROVIDED.
E. FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS. PROVIDE 10% ADDITIONAL LAMPS FOR EACH TYPE OF LAMP REQUIRED ON PROJECT AND TURN OVER TO OWNER.
F. ALL LIGHTING FIXTURES SHALL CARRY THE UNDERWRITER'S LABEL OF APPROVAL.
G. FIXTURES SHALL BE FREE OF IMPERFECTIONS, HANDLING, OR INSTALLATION DAMAGE.
H. OBTAIN EXACT LOCATION OF ALL CEILING OUTLETS FROM THE ARCHITECT.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIT OF ALL LIGHTING FIXTURES INTO THE ACTUAL CEILING INSTALLED.
ALL WIRING WITHIN EACH LIGHTING FIXTURE SHALL BE CONTAINED IN METALLIC WIRING CHANNEL AND NOT IN THE LAMP CHAMBER.
FLUORESCENT LIGHTING FIXTURES SHALL BE "T" RATED, PREMIUM GRADE, AND SO LABELED AS PER NEC.
CONFIRM COMPATIBILITY AND INTERFACE OF OTHER MATERIALS WITH LUMINAIRE AND CEILING SYSTEM. REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT AND ORDER CORRECTING UTILITY CLARIFIED.
COORDINATE WITH DIVISION 15 TO AVOID CONFLICTS BETWEEN LUMINARIES, SUPPORTS, FITTINGS, AND MECHANICAL EQUIPMENT.
N. ALL INCANDESCENT, FLUORESCENT, METAL HALIDE, AND HIGH PRESSURE SODIUM LAMPS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, GE-SYLVANIA, WESTINGHOUSE, OR PHILLIPS.
O. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE HIGH POWER FACTOR BALLASTS HAVING A SOUND LEVEL OF "A", BALLASTS CONSIDERED BY THE OWNER OR ENGINEER TO HAVE OBJECTIONABLE NOISE OR HUM SHALL BE REPLACED DURING THE PERIOD OF GUARANTEE AT THE DIVISION 16 CONTRACTOR'S EXPENSE.
P. FLUORESCENT BALLASTS TO BE PROGRAMMED START, SOLID STATE ELECTRONIC, LOW LOSS ENERGY SAVINGS TYPE, WITH THE FOLLOWING RATINGS FOR COMPACT TWIN TUBE FLUORESCENT LAMPS 18 TO 55 WATTS, AND LINEAR FLUORESCENT LAMPS 16 TO 60 WATTS:
a. TOTAL HARMONIC DISTORTION (THD) LESS THAN 10% ACCORDING TO NEMA, C82.11
b. LAMP CURRENT CREST FACTOR AT OR BELOW 1.7
c. TRANSIENT VOLTAGE PROTECTION: ANSI/IEEE C62.41, CATEGORY A.
d. OPERATE IN AMBIENT TEMPERATURES UP TO 105 DEGREES F.
e. MINIMUM 95 PERCENT POWER FACTOR.
f. MINIMUM 85 PERCENT BALLAST FACTOR.
Q. IT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, WITH THE CONSTRUCTION CONTRACTOR, THE TYPES OF CEILINGS IN ALL ROOMS HAVING TROFFERS, AS TO THE TYPE OF TROFFER CONSTRUCTION REQUIRED TO MATCH THE CEILING CONSTRUCTION.
R. MOUNT HIGH INTENSITY DISCHARGE BALLASTS ON RUBBER GROMMETS TO REDUCE NOISE TRANSMISSION.
S. ALL METAL PARTS SHALL BE GROUNDED AS A COMMON UNIT.
T. SUPPORT FLUORESCENT LUMINARIES DIRECTLY FROM BUILDING STRUCTURE BY ROD HANGERS AND INSERTS, OR METAL ANGLE HEADERS SUPPORTED FROM FRAMING STRUCTURE OF CEILING SUSPENSION SYSTEM.
U. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW, TO GAIN ACCESS TO OUTLET OR PRE-WIRED LIGHTING FIXTURE BOX.
LED FIXTURES
--QUALITY
A. LIGHTING FIXTURES SHALL BE OF SPECIFICATION GRADE AND LISTED OR LABELED BY UNDERWRITERS LABORATORIES (UL) OR AN APPROVED EQUAL.
B. LED FIXTURES SHALL COMPLY WITH THE FOLLOWING:
1. UL STANDARD 8750 "LIGHT EMITTING DIODE EQUIPMENT FOR USE IN LIGHTING PRODUCTS", IES STANDARD LM-79 "ELECTRICAL AND PHOTOMETRICS MEASUREMENTS OF SOLID STATE LIGHTING PRODUCTS", IES STANDARD LM-80 "MEASURE LUMENS MAINTENANCE OF LED LIGHT SOURCE", AND IES STANDARD "TM-21 "PROJECTING LONG TERM LUMEN MAINTENANCE OF LED LIGHT SOURCE".
2. ANSI C78.377 "SPECIFICATIONS OR THE CHROMATICITY OF SOLID STATE LIGHTING PRODUCTS" WITH LED BINNED WITHIN A MAXIMUM THREE-STEP MACADAM ELLIPSE TO ENSURE COLOR CONSISTENCY AMONGST LUMINARIES OF THE SAME TYPE.
--WARRANTY
A. LED FIXTURES, LAMPS DRIVERS AND COMPONENTS PROVIDE A COMPLETE WARRANTY FOR PARTS AND LABOR FOR A MINIMUM OF FIVE YEARS.
--PRODUCTS
A. LED FIXTURES SHALL BE MODULAR AND ALLOW FOR SEPARATE REPLACEMENT OF LED LAMPS AND DRIVERS. USER SERVICEABLE LED LAMPS AND DRIVERS SHALL BE REPLACEABLE FROM THE ROOM SIDE.
B. DIMMABLE LED FIXTURES SHALL HAVE A 0-10 VOLT, 3-WIRE DIMMING DRIVER OR A TWO STEP (50%-100%) LINE VOLTAGE, TWO SWITCH CONTROLLER DIMMING DRIVER.
--LAMPS
A. LED LAMPS SHALL HAVE A COLOR TEMPERATURE 3500° K, A CRI OF 80 MINIMUM, AND A LUMEN MAINTENANCE 170 RATING OF 50,000 HOURS MINIMUM.
--DRIVERS
A. LED DRIVERS SHALL BE ELECTRONIC--TYPE, LABELED AS COMPLIANT WITH RADIO FREQUENCY INTERFACE (RFI) REQUIREMENTS OF FCC TITLE 47 PART 15, AND COMPLY WITH NEMA SSL 1 "ELECTRONIC DRIVERS FOR LED DEVICES, ARRAYS OF SYSTEMS". LED DRIVERS SHALL HAVE A SOUND RATING OF "A" HAVE MINIMUM EFFICIENCY OF 85%, AND BE RATED FOR A THD OF LESS THEN 20% AT ALL INPUT VOLTAGES.
B. DIMMABLE LED DRIVERS SHALL BE 0-10V TYPE, DIMMABLE DRIVERS SHALL BE CAPABLE OF DIMMING WITHOUT LED STROBING OR FLICKERING ACROSS THEIR DIMMING RANGE.
C. DRIVERS SHALL BE RATED FOR THE AMBIENT TEMPERATURES IN WHICH THEY ARE LOCATED. OUTDOOR FIXTURES SHALL BE EQUIPPED WITH DRIVERS RATED FOR RELIABLE STARTING TO -20 DEGREES F. INDOOR FIXTURES LOCATED IN AREAS WITH DIRECT SUNLIGHT OR ABOVE NORMAL AMBIENT TEMPERATURE SHALL HAVE DRIVERS RATED AT 65 DEGREES C MINIMUM.ABOVE NORMAL AMBIENT TEMPERATURE.

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SEAL:
--WARRANTY
--PRODUCTS

TITLE:
ELECTRICAL SPECIFICATIONS

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SA JOB #: 15108.03
DATE:
DRAWING #: E-104

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GENERAL NOTES:

1. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE INSPECTOR'S TEST CONNECTION IN ALL LOCATIONS REQUIRED BY CODE AND SHALL INSTALL THEM IN A WAY THAT THEY DO NOT INTERFERE WITH THE OPERATION OF THE BUILDING.
2. THE FIRE PROTECTION CONTRACTOR SHALL HAVE APPROVED FIRE PROTECTION DRAWINGS BEFORE STARTING PIPE FABRICATION AND INSTALLATION.
3. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A HYDRAULICALLY DESIGNED WET TYPE SPRINKLER SYSTEM THROUGHOUT ALL AREAS OF THE BUILDING IN ACCORDANCE WITH NFPA-13 (LATEST EDITION) AND THE LOCAL CODES.
4. THE AREA SHOWN SHALL BE SPRINKLED. THE CONTRACTOR SHALL PROVIDE SPRINKLER BRANCH PIPING TO HEADS, CENTER HEADS IN CEILING TILE.
5. TENANT SPACE SHALL BE FULLY SPRINKLED, SPRINKLER MAIN TO BE PROVIDED AND INSTALLED CONTRACTOR. AND TO BE NO LOWER THAN 12'-6" A.F.F. CONTRACTOR. TO NOTIFY OWNER/ARCHITECT IF HEIGHT OF SPRINKLER LINES CONFLICT WITH EXISTING CEILING HEIGHTS. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF SPRINKLER LINES AND DROP HEADS ACCORDINGLY. ALL SPRINKLER HEADS TO BE CENTERED IN CEILING TILE. REFER TO SITE PLAN FOR LOCATION OF SPRINKLER/WATER ROOM. CONTRACTOR TO COORDINATE WITH LANDLORD BEFORE CONSTRUCTION. (DROPS AND HEADS)
6. PROVIDE AND INSTALL PROTECTIVE CAGES AT DRY SPRINKLER HEADS IN COOLERS AND FREEZER (EQUAL TO FIREHOUSE INTERNATIONAL MODEL No. BRO-SPCAGE).
7. PROVIDE HIGH TEMPERATURE SPRINKLER HEAD WHEN SPRINKLER IS LESS THAN 5'-0" FROM OVEN/COOKING APPLIANCES.
8. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH EXISTING BUILDING OWNER/TENANTS FOR THE SCHEDULE OF FIRE PROTECTION SYSTEM SHUTDOWN. SHUTDOWN SHALL NOT SACRIFICE SAFETY OF ADJOINING TENANTS. MINIMIZE DISRUPTION TO ADJOINING TENANT SPACES.
9. COORDINATE NEW SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE LIGHTS, DIFFUSERS AND MISC. EQUIPMENT LOCATED IN CEILING.

SPECIFICATIONS:

- A. SPRINKLER HEADS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE NFPA 13 AND STATE BUILDING CODE.
- B. CONTRACTOR SHALL VERIFY WATER PRESSURES AND FLOWS AVAILABLE, SIZE PIPING ACCORDINGLY.
- C. COORDINATE WORK WITH ALL OTHER TRADES INVOLVED.
- D. ALL MATERIALS AND EQUIPMENT USED SHALL BE UL LISTED AND FM APPROVED.
- E. CONTRACTOR SHALL SUBMIT SPRINKLER PLANS AND HYDRALIC CALCULATIONS TO LOCAL AUTHORITIES FOR APPROVAL.
- F. SPRINKLER HEADS SHALL BE UL LISTED AND FM APPROVED.
- G. NEW PIPING: ASTM A53 BLACK STEEL SCHEDULE 40 PIPE 1&2 IN. AND SCHEDULE 10, 2-1/2 IN. AND LARGER. FITTINGS SCREWED CAST IRON 1-2 IN. AND GROOVED 2-1/2 IN. AND LARGER.
- H. TEST SPRINKLER SYSTEM PER NFPA AND LOCAL AUTHORITIES AND CERTIFY SUCCESSFUL COMPLETION.

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**Wind Buffalo
Renovation**

7566 Transit Rd.
Amherst, NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P. Silvestri _____
 PROJ. ARCH. _____ DRAFTER _____
 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:

**NOTES AND
SPECIFICATIONS**

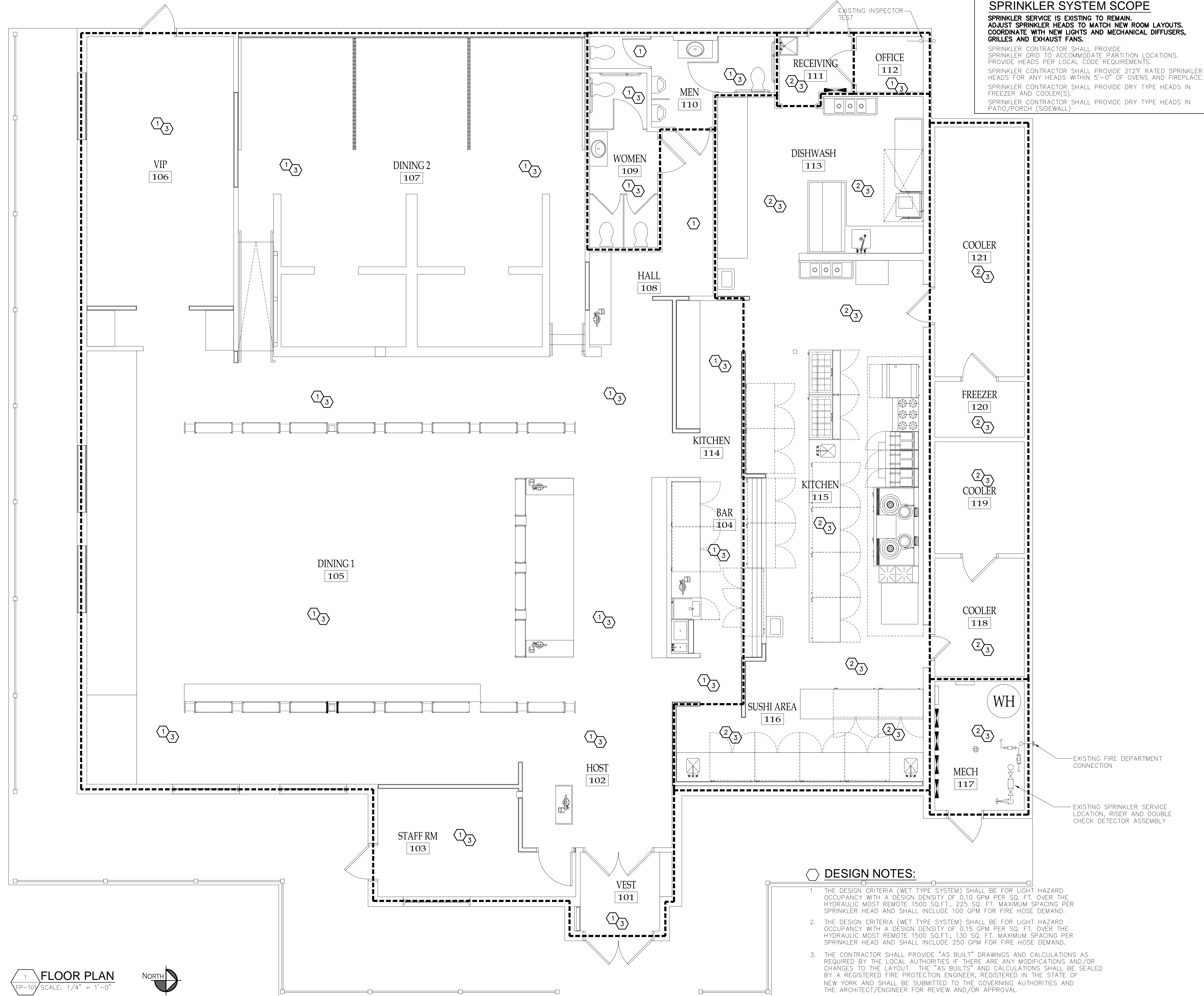


**SILVESTRI
ARCHITECTS • PC**

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SPRINKLER SYSTEM SCOPE
 SPRINKLER SERVICE IS EXISTING TO REMAIN. ADJUST SPRINKLER HEADS TO MATCH NEW ROOM LAYOUTS. COORDINATE WITH NEW LIGHTS AND MECHANICAL DIFFUSERS, GRILLES AND EXHAUST FANS.
 SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER GRID TO ACCOMMODATE PARTITION LOCATIONS. PROVIDE HEADS PER LOCAL CODE REQUIREMENTS.
 SPRINKLER CONTRACTOR SHALL PROVIDE 212°F RATED SPRINKLER HEADS FOR ANY HEADS WITHIN 5'-0" OF OVENS AND FIREPLACE.
 SPRINKLER CONTRACTOR SHALL PROVIDE DRY TYPE HEADS IN FREEZER AND COOLER(S).
 SPRINKLER CONTRACTOR SHALL PROVIDE DRY TYPE HEADS IN PATIO/PORCH (SIDEWALL).

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**FLOOR PLAN
 FIRE PROTECTION**

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- DESIGN NOTES:**
1. THE DESIGN CRITERIA (WET TYPE SYSTEM) SHALL BE FOR LIGHT HAZARD OCCUPANCY WITH A DESIGN DENSITY OF 0.10 GPM PER SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ.FT., 225 SQ. FT. MAXIMUM SPACING PER SPRINKLER HEAD AND SHALL INCLUDE 100 GPM FOR FIRE HOSE DEMAND.
 2. THE DESIGN CRITERIA (WET TYPE SYSTEM) SHALL BE FOR LIGHT HAZARD OCCUPANCY WITH A DESIGN DENSITY OF 0.15 GPM PER SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ.FT., 130 SQ. FT. MAXIMUM SPACING PER SPRINKLER HEAD AND SHALL INCLUDE 250 GPM FOR FIRE HOSE DEMAND.
 3. THE CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS AND CALCULATIONS AS REQUIRED BY THE LOCAL AUTHORITIES IF THERE ARE ANY MODIFICATIONS AND/OR CHANGES TO THE LAYOUT. THE "AS BUILTS" AND CALCULATIONS SHALL BE SEALED BY A REGISTERED FIRE PROTECTION ENGINEER, REGISTERED IN THE STATE OF NEW YORK AND SHALL BE SUBMITTED TO THE GOVERNING AUTHORITIES AND THE ARCHITECT/ENGINEER FOR REVIEW AND/OR APPROVAL.

FLOOR PLAN
 FP-101 SCALE: 1/4" = 1'-0"
 NORTH