

RESPONSIBILITY SCHEDULE

NOTE: THIS SCHEDULE IS PROVIDED FOR QUICK REFERENCE ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. CONFLICTS BETWEEN THIS SCHEDULE AND THE REST OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION (IN WRITING) PRIOR TO BEGINNING WORK.

	FURNISHED			INSTALLED			
	TENANT	GENERAL CONTRACTOR	OWNER'S CONTRACTOR	LANDLORD	TENANT	GENERAL CONTRACTOR	OWNER'S CONTRACTOR

DIVISION 01: GENERAL DATA

A. PERMITS, FEES & INSURANCE		X						
1. PERMIT FEES		X						
2. INSURANCE		X						
3. BUILDER'S RISK INSURANCE		X						
B. TEMPORARY UTILITIES		X						
C. PROFESSIONAL CLEANING		X						
D. CERTIFICATE OF OCCUPANCY		X						
E. DUMPSTERS & TRASH BINS		X						AS NEC. (COORDINATED W/SITE MANAGEMENT), FOR TENANT'S NON-EXCLUSIVE USE

DIVISION 02: SITEWORK

A. DEMOLITION / BARRIERS				X				X	AS NEC. / BY LOCAL OR ORDINANCES & ALL REQUIREMENTS
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DIVISION 03: CONCRETE

A. CONCRETE CUTTING & CORING		X				X			GC TO PAD AND PATCHING AT TRENCH LOCATIONS
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DIVISION 04: MASONRY

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DIVISION 05: METALS

A. FRAMING		X				X			
E. UNISTRUT AS NEC.		X				X			
F. SUSPENDED SHELVING & SUPPORTS		X				X			
I. STEEL CHECKER PLATE		X				X			

DIVISION 06: WOODS AND PLASTICS

NOTE: PROVIDE SEPARATE LINE AMOUNT TO COORDINATE ALL MILLWORK INSTALLATION IF OWNER SUPPLIES IT ALL. ALL MILLWORK PROVIDED BY OWNER INSTALLED BY GC

A. FINISH CARPENTRY		X				X			
1. RUNNING TRIM ON MILLWORK		X				X			PROVIDE ADDITIONAL LENGTH FOR FIELD USE
2. UNDER COUNTER REFRIGERATOR		X				X			EMPLOYEE FRIDGE PROVIDED BY OWNER, GC TO INSTALL
B. WOOD TREATMENT		X				X			
1. FIRE RETARDANT & TREATED LUMBER (IN WALL BLOCKING)		X				X			
C. ARCHITECTURAL WOODWORK (JOINERY)		X				X			
1. RETAIL DISPLAY AND SHELVING		X				X			DISPLAY SHELVES. PROVIDED BY OWNER, GC TO INSTALL
D. CABINETS & COUNTERTOPS		X				X			PREFABRICATED STANDARD CABINETS. PROVIDED BY OWNER, GC TO INSTALL
1. BACKBAR MILLWORK		X				X			PROVIDED BY OWNER, GC TO INSTALL
2. LAUNDRY		X				X			COUNTER FOR LAUNDRY INSTALLED BY GC
3. FIXED BENCHES		X				X			
4. RECEPTION DESK		X				X			

DIVISION 07: THERMAL AND MOISTURE PROTECTION

A. INSULATION									GC TO VERIFY IN-WALL AND PRECAST INSULATION. PROVIDE SEPARATE LINE IF REQ.
B. SEALANTS AND CAULKING									
C. FIRE STOPPING		X				X			GC TO FIRE CAULK & PAINT ALL NEW AND EXISTING PENETRATIONS

DIVISION 08: DOORS AND WINDOWS

A. NEW DOORS & FRAMES		X				X			DRAPERY PROVIDED BY OWNER, GC TO INSTALL
B. CEILING ACCESS PANELS		X				X			PER TRADE UNDER G.C. GYP.BD. CEILINGS TO HAVE GFRG PANELS
C. HARDWARE AND SPECIALTIES		X				X			
1. DOOR HARDWARE		X				X			SEE DOOR SCHEDULE ON A8-30
2. SERVICE DOOR DEVICES		X				X			SEE DOOR SCHEDULE ON A8-30
3. MASTER KEY SYSTEMS		X				X			
D. WINDOW AND GLAZING		X				X			

DIVISION 09: FINISHES

A. GYPSUM WALLBOARD & ACCESSORIES		X				X			
1. INTERIOR PARTITION - FRAMING & GYP.BD.		X				X			
2. LOW DIVIDER WALL - FRAMING & GYP.BD.		X				X			
3. RATED PARTITION - FRAMING & GYP.BD.		X				X			
4. EXTERIOR PARTITION									
B. SUSPENDED GYP. BD. CEILING & FRAMING		X				X			
D. WINDOW AND GLAZING		X				X			

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DIVISION 09: FINISHES CONT.

C. SUSPENDED T BAR LAY-IN CEILING		X				X		
D. PAINTING		X				X		
E. FLOORING		X				X		
1. THRESHOLDS		X				X		
2. STRUCTURAL COLUMN ENCLOSURES		X				X		

DIVISION 10: SPECIALTIES

A. IDENTIFYING DEVICES									
1. EXTERIOR, BUILDING MOUNTED SIGNAGE			X			X	X		GC TO PROVIDE POWER AS NECESSARY AND COORDINATE INSTALLATION
2. SERVICE DOOR IDENTIFICATION		X				X			
3. ACCESSIBILITY SIGNAGE									
4. INTERIOR MOUNTED SIGNAGE		X				X			GC TO PROVIDE POWER AS NECESSARY AND COORDINATE INSTALLATION
5. GRAPHIC VINYL									GC TO COORDINATE W/OWNER & ARCHITECT
6. INTERIOR ARTWORK / MURALS / ARTIFACTS									GC TO COORDINATE W/OWNER
B. FIRE EXTINGUISHERS		X				X			HAVE EXTINGUISHERS ON SITE AND LOCATE WITH FIRE MARSHALL
C. TOILET ROOM ACCESSORIES		X				X			PROVIDED BY OWNER, GC TO INSTALL
D. MIRRORS		X				X			PROVIDED BY OWNER, GC TO INSTALL
E. DIGITAL DISPLAY		X				X			
F. SELFIE MIRROR		X				X			ONLY BACK ROOM, GC TO INSTALL

DIVISION 11: EQUIPMENT

C. PLATINUM LED PBM WALL - MOUNT PANEL									PROVIDED BY OWNER'S VENDOR, GC TO COORDINATE REQUIREMENTS
D. PLATINUM LED PBM MOBILE PANEL									PROVIDED BY OWNER'S VENDOR, GC TO COORDINATE REQUIREMENTS
E. WASHER / DRYER - TBD						X			GC TO PROVIDE INSTALL
F. EQUIPMENT BACKING		X				X			

DIVISION 12: FURNISHINGS

E. DRAPERY		X				X			GC TO INSTALL
G. OFFICE CHAIR		X				X			OFFICE AND STORAGE SHELVING BY OWNER, GC TO INSTALL
H. FILE CABINETS		X				X			OFFICE AND STORAGE SHELVING BY OWNER, GC TO INSTALL
I. OFFICE SAFE		X				X			OFFICE AND STORAGE SHELVING BY OWNER, GC TO INSTALL
J. EMPLOYEE LOCKERS		X				X			
K. METAL SHELVING UNIT		X				X			
L. METAL CABINETS		X				X			
M. EMPLOYEE STORAGE		X				X			
N. ROLLING LAUNDRY BINS		X				X			
O. ROLLING LAUNDRY CART		X				X			
P. EMPLOYEE TABLE		X				X			

DIVISION 13: SPECIAL CONSTRUCTION

NO WORK UNDER THIS DIVISION									
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DIVISION 14: CONVEYING SYSTEMS

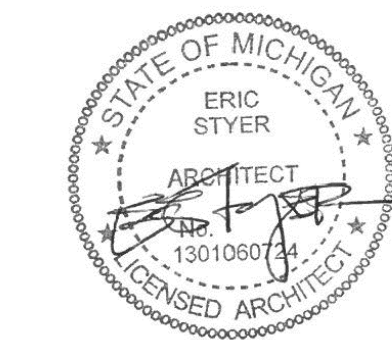
NO WORK UNDER THIS DIVISION									
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DIVISION 15: MECHANICAL AND PLUMBING

A. HVAC HEATING & COOLING EQUIPMENT				X		X			PROVIDED BY LANDLORD
B. HVAC DUCTWORK		X				X			
C. FIRE SPRINKLERS		X				X			LANDLORD TO PROVIDE MAIN DISTRIBUTION LINE. DIST. FROM MAIN BY TENANT
D. FIRE & LIFE SAFETY SYSTEMS		X				X			
E. PLUMBING									
1. PLUMBING FIXTURES & FITTINGS		X				X			SEE A5-31 FOR SPEC
2. WATER HEATER		X				X			
3. WATER SOFTENING EQUIPMENT									
4. WATER TO (E) P.O.C.									
5. GAS TO (E) P.O.C.			X				X		
6. TOILETS & FLUSH VALVES		X				X			
F. SMOKE DETECTORS		X				X			
G. WATER / SEWER P.O.C.			X				X		
H. EXHAUST / SUPPLY FANS AND VENTS		X				X			
I. SUPPLY & RETURN AIR REGISTERS									
5. GAS TO (E) P.O.C.		X				X			TENANT ENTITLED TO USE EXISTING GAS LINE AND METER

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 890 W. EISENHOWER PKWY
 ANN ARBOR, MI 48103



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CASE Engineering Inc.
 Mechanical Engineering
 10000 Washtenaw Ave. • Ann Arbor, MI 48106

PERMIT / BID

Project Number: 22-067
 Drawn By: _____
 No. _____
 Date: 05/12/2022
 Approved By: XX
 Date: 06/09/2022

95% REVIEW
 ISSUED FOR PERMIT & BID

SHEET TITLE & NUMBER

RESPONSIBILITY SCHEDULE

T1-02

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RESPONSIBILITY SCHEDULE CONT.

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DIVISION 16: ELECTRICAL

A. LIGHTING SYSTEMS (LIGHTING FIXTURES)								PROVIDED BY OWNER, GC TO INSTALL
1. FIXTURES: AS LISTED ON THE FIXTURE LEGEND A2-11	X					X		
2. EXIT & EMERGENCY LIGHTING	X		X		X		X	SUPPLIED AND INSTALLED BY LANDLORD
3. DECORATIVE FIXTURES	X				X			
4. DIMMING SYSTEM, CONTROLS ON GC	X				X			
5. LAMPS / BULBS FOR ALL FIXTURES	X				X			
B. POWER SYSTEMS								AS DESIGNED BY LANDLORD
1. ELECTRIC (E) TO PRIMARY P.O.C.	X	X			X			
2. MAIN SERVICE WIRING		X			X			
3. TEN. DISTRIBUTION PANEL / TRANSFORMER		X			X			
4. OUTLETS, SWITCHES, CONDUITS		X			X			
5. FINAL FIXTURE CONNECTIONS		X			X			
C. TELEPHONE								GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
1. TELEPHONE OUTLETS		X			X			
2. TELEPHONE CONDUITS & PULL WIRE CONSULT WL		X	X		X		X	GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
3. TELEPHONE SYSTEMS		X			X	X		GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
D. SECURITY SYSTEM								GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
1. CONDUITS AND PULL STRINGS		X			X			
2. EQUIPMENT, HOOK-UP & WIRING			X		X	X		GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
E. A/V SYSTEMS								GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
1. CONDUITS AND PULL STRINGS		X			X			
2. STEREO & SPEAKERS			X		X	X		GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
3. CABLING			X		X	X		GC TO COORDINATE LOCATIONS W/ OWNER'S VENDOR PRIOR TO INSTALLATION, TYP.
G. FIRE SYSTEM								GC TO PROVIDE CONDUIT, ELECTRICAL OWNER TO INSTALL
1. INTERFACE W/ L.L. SYSTEM		X			X			

REMARKS / NOTES:
1. ALL ITEMS THAT ARE FURNISHED BY OWNER'S CONTRACTOR, G.C. TO COORDINATE.
2. ALL EXTERIOR & EXPOSED INTERIOR GAS PIPING TO BE PAINTED BY G.C.
3. REFER TO A9-10 FOR ADDITIONAL FINISH INFORMATION AND SPECIFICATIONS.

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**Exhibit C
Landlord Work Letter**

Landlord shall provide the following, at Landlord's expense, prior to Tenant taking possession of Premises:

- (1) **Selective Demo** – Demolish, remove and legally discard all prior tenant's improvements, including, but not limited to hazardous substances, partitions, ceilings, floor coverings (including adhesive and grout), electrical conduit, plumbing, mechanical ductwork and other fixtures and equipment. Tenant reserves the right to identify property items to remain prior to demolition.
- (2) **Facade Improvements** – Landlord is to provide an allowance for Façade accents/improvements per Tenant's specification.
- (3) **Floor** – Provide level reinforced, concrete slab in grade-street level, stable, dry condition. Concrete floor must be smooth and properly cured to a level below 5lbs of hydrostatic pressure. Relief joints must be sealed and ready to accept Tenant's finishes. All flooring must meet applicable dead and live load codes. The floor structure must have less than 1/8" per foot deflection in order to accept Tenant's floor finishes. Landlord to provide scanning of concrete floor slab to ensure existing conditions underneath slab before excavation
- (4) **Walls** – All existing perimeter walls must comply with 20 gauge studs, 16" O.C. with R-II blanket insulation to deck. The finish level of the perimeter surfaces within the Tenant Premises shall be a minimum of level 4 with a 5/8" Type "X" gypsum wall board. Seal top joint tight with foam sealant unless otherwise required for fire protection. Any demising walls and insulation to remain shall meet current energy requirements and all local codes.
- (5) **HVAC** – Landlord shall provide a fully functioning HVAC system, including thermostats and remote sensors, designed to a minimum of 1 ton per 250 square foot, including any/all fresh air requirements to meet code. Landlord shall also provide a general exhaust for toilets, BOH dryers and balancing the space. All equipment and systems shall be mutually agreed including all specific equipment and ducting locations. Landlord shall deliver the HVAC system fully tested and balanced with all required operating permits and in good working order.
- (6) **Water** – minimum 1.5" diameter domestic water line stubbed to premises with separate meter, an approved, tested and certified backflow device with a maximum water pressure drop of 15 PSI static pressure at 50gpm, and shut off valve per Tenant's specified location and plans. Landlord to provide temporary domestic water if not available at time of possession. Permanent water is required prior to Tenant commencing construction. Landlord shall provide a meter and/or sub-meter if required by lease and/or the utility company.
- (7) **Sewer** – Minimum 4" sanitary waste line stubbed to Premises as per Tenant's specified location. The invert elevation at the furthest point of connection shall be 24" below finished floor and maintain a minimum slope of 1/4" per lineal foot and shall be per local code. Septic tanks are not acceptable.
- (8) **Fire Protection** – Fire sprinkler protection system including flow and tamper device as required by applicable building codes per Tenant's specified locations. Sprinkler coverage (drops and heads) distributed throughout Premises per Tenant's plans and code. Landlord to provide finalized shell permit for entire system. Provide smoke detectors, fire alarms and building connections as

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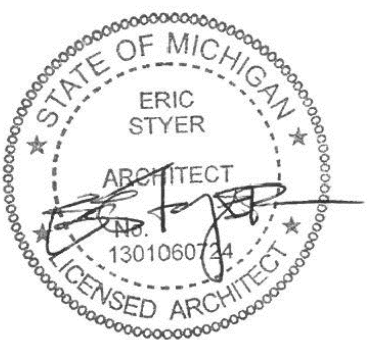
required by applicable codes, manufacturer's specifications and building requirements. If required by applicable code, engineer and furnish 4" fire main within Tenant's Premises accessible via a main line connection.

- (9) **Fire Alarm** - Fire alarm monitoring system including all sensors, strobes, horns and pull stations per Tenant's plans and sensors as required for the Premises, connected to building monitoring system and Tenant's equipment as required by building system requirements, code and all government agencies. Provide all coordination, testing and inspections for a fully functional fire alarm system able to obtain Tenant's permanent Certificate of Occupancy and to meet Tenant's opening schedule. If there is no fire alarm monitoring system, then Landlord will provide a test and reset station for the duct smoke detector.
- (10) **Electrical Service** – Landlord shall provide a 277/480v 3PH 4W 200a service including main panel, disconnect and any transformer in mutual agreed location(s) for the Premises. Landlord shall provide any direct and/or sub-metering that would/might be required. Landlord to provide wire and conduit from service point into Premises connected to one 'Square-D' or equal NEMA PB1, Type 1, 200 Amp rated panel recessed mounted panels with no less than 54 circuits in one location designated by Tenant. Landlord to provide temporary power to the Premises sufficient to serve Tenant's construction until completion of Tenant's build out.
- (11) **Telephone** – Furnish and install 2" conduit for telephone service with pull strings, stubbed to space as per tenant's specified location from property's joint telephone demarcation/space.
- (12) **Internet Cabling** – Furnish and provide internet fiber to Premises.
- (13) **Warranties** - Warranties for all improvements including but not limited to mechanical, electrical and plumbing systems for a period of at least one year (or longer if required by lease). All warranties shall be assigned and provided to tenant.
- (14) **Handicap Accessibility** - All municipal state and federal ADA requirements to be installed by Landlord. All means of ingress/egress shall be at street entry grade level. Handicap accessible lift or ramp must be approved by Tenant and installed per Federal handicap code with applicable landings, railings and clearances

MUNICIPAL APPROVAL STAMP

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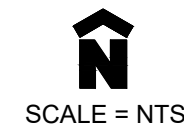
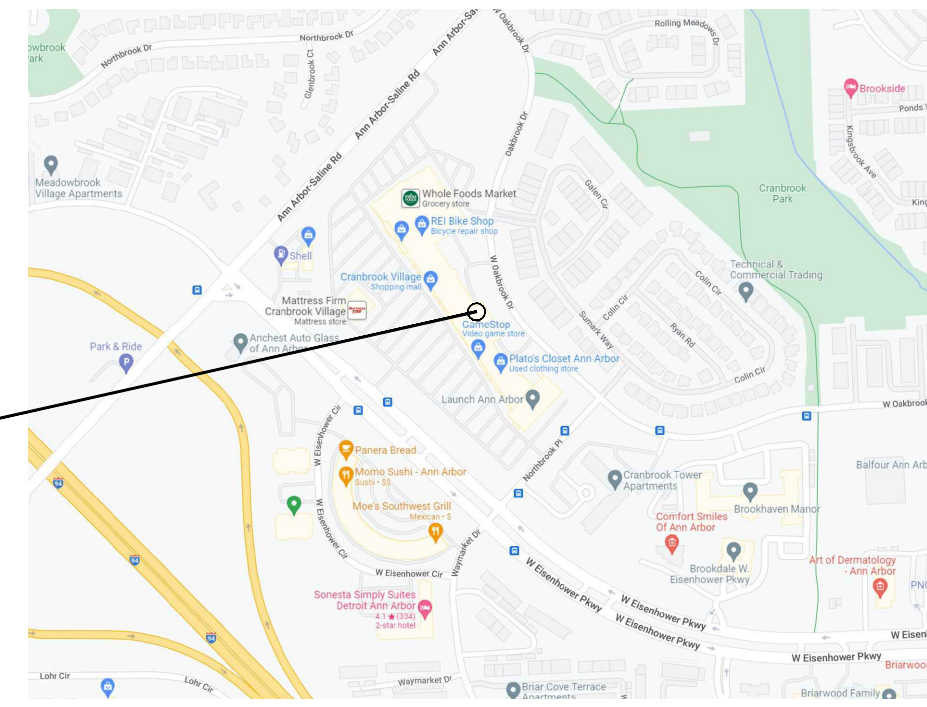
PERMIT / BID	
Project Number: 22-067	Approved By: XX
Drawn By:	Date: 05/12/2022
No. Issue	Date: 06/09/2022
95% REVIEW ISSUED FOR PERMIT & BID	

RESPONSIBILITY SCHEDULE

T1-03

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PROXIMITY MAP



EGRESS CALCULATIONS

OCCUPANCY LOAD CALCULATIONS: (TABLE 1004.1.2)			
DESCRIPTION	AREA	AREA PER OCCUPANT	TOTAL OCCUPANTS
TOTAL SQFT OF TENANT SPACE	2414 SF (GROSS)	100 SF (GROSS)	25

EXIT ACCESS TRAVEL DISTANCE:			
MAX. ALLOWED	MAX. DISTANCE PROVIDED		
250'	85' 2"		

COMMON PATH OF TRAVEL DISTANCE: (TABLE 1016.2)			
MAX. ALLOWED	MAX. DISTANCE PROVIDED		
75'	11' 10"		

EGRESS DOOR WIDTH: (TABLE 1006.3.1)			
MINIMUM REQUIRED	PROVIDED		
32"	EXIT 1 - 36"		
32"	EXIT 2 - 36"		

EGRESS AISLE WIDTH:			
MINIMUM REQUIRED	PROVIDED		
32"	36"		

MINIMUM NUMBER OF EXITS:			
REQUIRED	PROVIDED		
1	2		

PROJECT DESCRIPTION

INTERIOR BUILD-OUT OF AN EXISTING SPACE FOR A NEW FACIAL SHOP. WORK INCLUDES CARPENRY, MECHANICAL, PLUMBING AND ELECTRICAL DISCIPLINES.

MICHIGAN BLDG CODES

BUILDING	2015 MICHIGAN BUILDING CODE
MECHANICAL	2015 MICHIGAN MECHANICAL CODE
ELECTRICAL	NATIONAL ELECTRICAL CODE 2017 OF MICHIGAN
PLUMBING	2018 MICHIGAN PLUMBING CODE
FIRE PREVENTION	2015 INTERNATIONAL FIRE CODE - NFPA 72
ENERGY	2015 MICHIGAN ENERGY CODE
ACCESSIBILITY	2015 INTERNATIONAL ACCESSIBILITY CODE
ZONING	THE ZONING ORDINANCE OF MICHIGAN TOWNSHIP
FUEL GAS	2015 INTERNATIONAL FUEL GAS CODE

* AS AMENDED WITH ALL MICHIGAN STATE AMENDMENTS

PLUMBING REQUIREMENTS (UPC 2018)

OCCUPANT LOAD 25 TOTAL OCCUPANTS			
MIN. NO. OF PLUMBING FIXTURES	REQUIREMENT CALCULATION		PROVIDED UNISEX
WATER CLOSETS:	MALE: 1 PER 25	FEMALE: 1 PER 40	2 SINGLE USE
URINALS:	N/A	N/A	N/A
LAVATORIES:	1 PER 40		2
DRINKING FOUNTAINS:	1 PER 100		1
SERVICE SINK:	1		1

IPC 2018 & 2018 MICHIGAN PLUMBING CODE, SECTION 403.2 EXCEPTION: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 25 OR FEWER

ADA COMPLIANCE NOTES

PROJECT MUST FULLY COMPLY & MEET ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICAN DISABILITIES ACT AND THE 2010 ADA STANDARDS

EGRESS / ACCESS DIAGRAM

EXIT ACCESS TRAVEL DISTANCE

MAX. DISTANCE = X'-X"
 A TO 1 = 85'-2"
 B TO 2 = 70'-10"

REFER TO A1-21 FLOOR PLAN FOR EGRESS AISLE WIDTHS & REFER TO A2-11 REFLECTED CEILING PLAN FOR EMERGENCY LIGHTS & EXIT SIGN LOCATIONS.

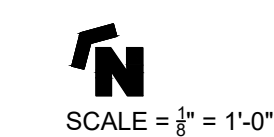
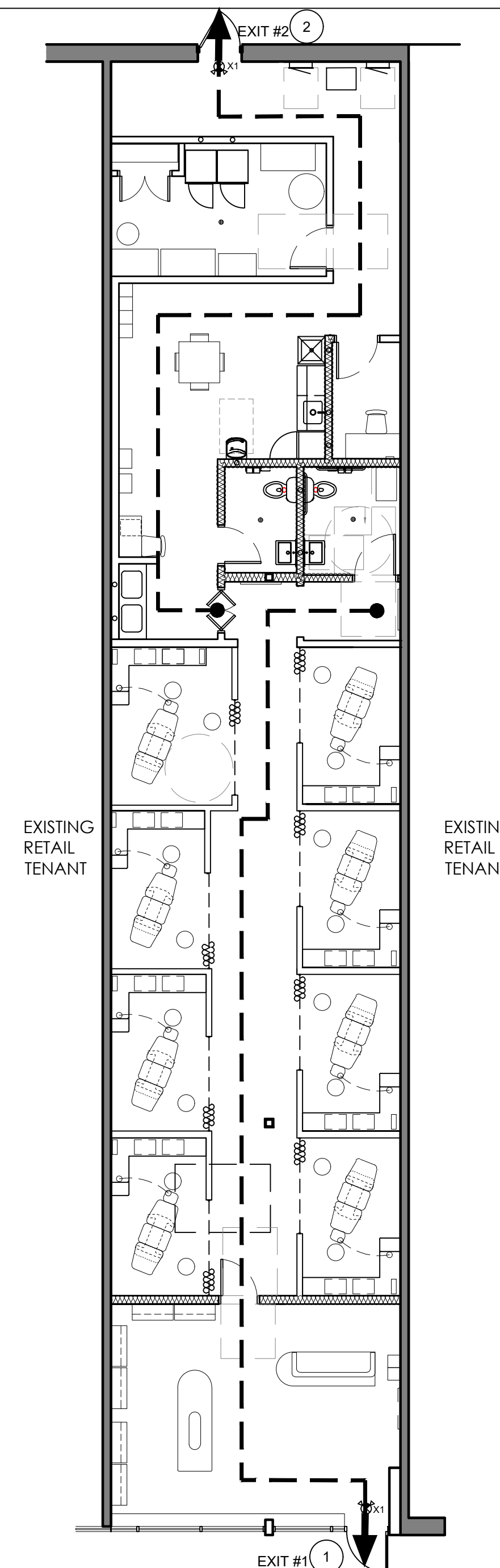
LEGEND

ABC ☉ ABC CLASS FIRE EXTINGUISHER

NOTE: COORDINATE ALL FIRE EXTINGUISHER LOCATIONS WITH LOCAL FIRE DEPARTMENT.

IBC 2018 CODE MATRIX

SCOPE OF WORK:	BUSINESS - INTERIOR BUILDOUT	
ZONING CLASSIFICATION:	C1B- COMMUNITY CONVENIENCE CENTER	
CONSTRUCTION TYPE:	TYPE II-B (FIRE SPRINKLERED THROUGHOUT) (TABLE 503)	
OCCUPANCY CLASSIFICATION:	B, BUSINESS (SECTION 309.1)	
ALLOWABLE HEIGHT:	EXISTING BUILDING, NO CHANGE	
ACTUAL HEIGHT:	ONE STORY W/O BASEMENT (EXISTING, NO CHANGE)	
ALLOWABLE AREA:	EXISTING BUILDING, NO CHANGE	
ACTUAL AREA:	EXISTING BUILDING, NO CHANGE	
TENANT SPACE GROSS AREA:	2,414 SF	
SEPARATION - USES:	B TO B (ADJACENT), 2 HR REQUIRED B TO B (ADJACENT), 2 HR REQUIRED	
BUILDING ELEMENT	FIRE RESISTANCE RATING REQUIREMENT (TABLE 601)	
	REQUIRED	PROVIDED
STRUCTURAL FRAME:	0 HR	EXISTING
BEARING WALLS, EXTERIOR:	0 HR	EXISTING
BEARING WALLS, INTERIOR:	0 HR	EXISTING
NON-BEARING WALLS, EXT.:	0 HR	EXISTING
NON-BEARING WALLS, INT.:	0 HR	0 HR
FLOOR CONSTRUCTION:	0 HR	EXISTING
ROOF CONSTRUCTION:	0 HR	EXISTING
INTERIOR FINISHES:	ALL INTERIOR FINISHES/MATERIALS SHALL COMPLY WITH CHAPTER 8 OF THE 2018 MICHIGAN STATE MIN. STANDARD BUILDING CODE	



GROUND FLOOR PLAN

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CASE Engineering Inc.
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 CONSULTANTS

PERMIT / BID	
Project Number: 22-067	Approved By: XX
Drawn By:	Date: 05/12/2022
No. Issue	06/09/2022
95% REVIEW ISSUED FOR PERMIT & BID	

SHEET TITLE & NUMBER

PROJECT INFO & CODE ANALYSIS

G1-01

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GENERAL REQUIREMENTS

LANDLORD'S INSTRUCTIONS

PURPOSE:

THE FOLLOWING IS A LIST OF SOME OF THE LANDLORD'S INSTRUCTIONS TO GENERAL CONTRACTORS AND HIS/HER SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN LANDLORD'S COMPLETE REQUIREMENTS AND MAKE SURE THAT THE LANDLORD'S POLICIES ARE MET.

ROOF PENETRATIONS:

INSTRUCT ALL SUB-CONTRACTORS THAT ANYTHING THAT NEEDS TO BE ATTACHED ABOVE THE CEILING SHOULD BE ATTACHED TO THE ROOF STRUCTURE, NOT THE DECKING. ALL ROOF PENETRATIONS SHALL BE DONE BY LANDLORDS ROOFING CONTRACTOR TO MAINTAIN WARRANTY.

STRUCTURAL ELEMENTS:

DO NOT MAKE ANY CUTS TO ANY OF THE BUILDING ELEMENTS WITHOUT VERIFYING WHETHER OR NOT IT IS A STRUCTURAL ELEMENT. THIS INCLUDES ROOF BEAMS, ROOF DECK, MASONRY WALLS AND THE CONCRETE SLAB.

IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE INFORMATION, PLEASE CONTACT THE LANDLORD.

A/C STARTUP:

CONTACT THE LANDLORD FOR ANY REQUIREMENTS ON THE START-UP OF LANDLORD PROVIDED HVAC UNITS.

FIRE SYSTEM MONITORING: (IF REQUIRED)

VERIFY IF THE LANDLORD IS MONITORING THE FLOW AND TAMPER SWITCHES FOR THE SHELL BUILDING. IF THE SYSTEM IS OPERATIONAL, YOU MUST CONTACT THE LANDLORD PRIOR TO TAKING DOWN THE SYSTEM.

ANY FINES CHARGED BY THE FIRE DEPARTMENT FOR FALSE ALARMS WILL BE CHARGED BACK TO THE TENANT'S GENERAL CONTRACTOR.

ARCHITECT'S INSTRUCTIONS

SUBMITTALS:

IF ALTERNATE EQUIPMENT IS PROPOSED DUE TO LEAD TIME, THE ARCHITECT OR ENGINEER MAY REQUEST PAYMENT FROM S.C. FOR REVIEW OF THE SUBMITTAL. GENERAL CONTRACTOR MUST VERIFY LONG LEAD ITEMS AT START OF PROJECT TO AVOID DELAYS & ALTERNATES.

AS BUILTS:

THE GENERAL CONTRACTOR SHALL RED LINE ALL FIELD CHANGES ON A SET OF PRINTS TO REMAIN ON SITE THROUGHOUT THE CONSTRUCTION OF THE PROJECT. IT IS THE GC'S RESPONSIBILITY TO RECORD ALL FIELD CHANGES AND SUBMIT THE 'AS BUILTS' TO THE FG RCM AT TURNOVER.

G.C. COMPLIANCE

OWNER'S GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. TENANT'S GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES, INSURANCE, ETC., AS SET FORTH BY THE LANDLORD. GO TO VERIFY THE EXACT LOCATION OF ALL EXISTING LANDLORD FEATURES I.E. METAL BRACE FRAME, STOREFRONT OPENINGS, CORRIDOR ACCESS DOOR, DEMISING WALLS, UTILITY P.O.C., ETC.

FIRE SPRINKLERS (IF REQUIRED)

- IF AN AUTOMATIC FIRE SPRINKLER SYSTEM EXISTS WITHIN THE SPACE, THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE LANDLORD'S, OR ANOTHER LICENSED FIRE SPRINKLER CONTRACTOR TO DESIGN AND INSTALL THE NEW SYSTEM TO CONFORM WITH THE NEW ROOM AND CEILING HEIGHTS AS SHOWN IN THESE DRAWINGS. THE SPRINKLER CONTRACTOR SHALL DESIGN AND PREPARE SHOP DRAWINGS FOR THE PROPOSED SYSTEM MODIFICATIONS & SUBMIT THESE DRAWINGS TO THE BLDG./FIRE DEPT. & THE ARCHITECT TO GAIN APPROVALS PRIOR TO COMMENCING ANY WORK. PUBLIC AREA HEADS TO BE CONCEALED TYPE W/ BLACK COVERS AT DARK CEILINGS, WHITE AT LIGHT CEILINGS & CHROME IN TOILETS. HEADS IN NON-PUBLIC AREAS ARE TO BE SEMI-RECESSED. INSTALLATION IS TO INCLUDE ALL SITE WORK.
- COMPLETE PLANS AND SPECIFICATIONS FOR FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES; HALON SYSTEMS AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISHING SYSTEMS; BASEMENT PIPE INLETS; AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- FIRE EXTINGUISHING SYSTEM SHALL BE IN ACCORDANCE WITH 2015 INTERNATIONAL FIRE CODE SECTION 903.

FIRE ALARM (IF REQUIRED)

- EXISTING FIRE PANEL TO REMAIN IF PRESENT. FIRE CONTRACTOR TO TIE INTO BUILDING SYSTEM OR PROVIDE NEW SYSTEM AS REQ'D BY CITY APPROVAL. F.C. TO PROVIDE DRAWINGS AND SPECIFICATIONS FOR CITY APPROVAL.
- THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE LANDLORD'S, OR ANOTHER LICENSED FIRE ALARM CONTRACTOR TO DESIGN AND INSTALL NEW SYSTEM W/ ALL REQUIRED DEVICES.

SIGNAGE

OWNER'S SIGNAGE CONTRACTOR SHALL PREPARE SIGNAGE SHOP DRAWINGS AND SUBMIT TO BUILDING DEPT. & LANDLORD FOR APPROVAL. ALL SIGNAGE IS UNDER SEPARATE PERMIT.

SPRINKLER NOTES

- EXISTING SPRINKLER SYSTEM TO REMAIN.
- SPRINKLER CONTRACTOR TO ADJUST AND/OR ADD HEADS AS REQ'D FOR NEW LAYOUT.
- S.C. TO PROVIDE DRAWINGS AND CALCS FOR CITY APPROVAL.

MUNICIPAL APPROVAL STAMP

HEYDAY
 HEYDAY - ANN ARBOR- CRANBROOK VILLAGE
 890 W. EISENHOWER PKWY
 ANN ARBOR, MI 48103

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SEAL

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ARCHITECT

Project Number: 22-067	Approved By: XX	Date: 05/12/2022
Drawn By:	Issue	06/09/2022
No.	95% REVIEW	
	ISSUED FOR PERMIT & BID	

PERMIT / BID

SHEET TITLE & NUMBER

GENERAL INFORMATION

G1-02

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GENERAL NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDER GROUND WORK.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION...

- 33. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- 34. SHOULD THE DRAWINGS DISAGREE WITH THEMSELVES OR WITH THE SPECIFICATIONS OR SHOULD THE SPECIFICATIONS DISAGREE WITH THEMSELVES...

FIRE DEPARTMENT NOTES

- 1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.
- 2. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 40-B FOR KITCHEN. LOCATE EXTINGUISHERS PER LOCAL FIRE DEPARTMENT INSPECTOR.

GENERAL NOTES

- 16. DRAPES & OTHER DECORATIVE MATERIALS SHALL BE FLAME RETARDANT. CERTIFICATION THEREOF SHALL BE PROVIDED. EXITS, EXIT SIGNS, FIRE ALARM STATIONS, HOSE CABINETS & EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED BY DECORATIVE MATERIALS.
- 17. FINISHES SHALL NOT EXCEED CLASS A, B OR C AS INDICATED IN THE BUILDING CODE.

SPRINKLER SYSTEMS & WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLER HEADS EXCEEDS 19. IBC SECTION 903.4.

- 46. IN ADDITION TO THE EXTERIOR BELL OR HORN, AN APPROVED AUDIBLE VISUAL FIRE SPRINKLER FLOW ALARM SHALL BE PROVIDED IN THE INTERIOR OF ALL BUILDINGS IN A NORMALLY OCCUPIED LOCATION. THE AV DEVICE SHALL BE A MINIMUM OF 75 CD LUMENS & 15 DB ABOVE THE AMBIENT SOUND LEVEL.
- 47. A FIRE HYDRANT SHALL BE LOCATED WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION (FDC). THE ROUTE IS TO BE MEASURED AS THE FIRE HOSE WOULD BE LAID OUT & IS NOT MEASURED IN A CIRCLE AROUND THE FIRE HYDRANT, & DOES NOT GO THROUGH WATER RETENTION BASINS, OVER WALLS OR SIMILAR OBSTRUCTIONS.

GENERAL FIRE ALARM SYSTEM NOTES

- 1. PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SUBMITTED FOR REVIEW SHALL BE SEALED BY A QUALIFIED TEXAS REGISTRANT IN FIRE ALARM SYSTEM DESIGN.
- 2. ALARM INITIATING DEVICES, ALARM SIGNALING DEVICES, AND OTHER FIRE ALARM SYSTEM COMPONENTS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IFC SECTION 907.

FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION OF A BUILDING

- 1. DURING CONSTRUCTION, YOU MUST PROVIDE AND MAINTAIN AN ALL WEATHER ROAD DESIGNED TO SUPPORT THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING UP TO 85,000 POUNDS. SITES SHALL HAVE TWO POINTS OF ACCESS OR AS INDICATED AT PLAN REVIEW OR BY THE FIRE INSPECTOR.
- 2. A SIGN SHALL BE POSTED AT THE MAIN STREET ENTRANCE INDICATING EMERGENCY VEHICLE ENTRANCE, THE PROJECT NAME, THE PROJECT ADDRESS, AND AN EMERGENCY CONTACT NUMBER OF A COMPANY REPRESENTATIVE.

SHALL BE IN ACCORDANCE WITH CFC CHAPTER 14.

ACCESSIBILITY NOTES

- 1. ACCESS TO THESE FACILITIES SHALL BE PROVIDED AT PRIMARY ENTRANCES, AS REQUIRED BY ADA.
- 2. WALKS & SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" & SHALL BE A MIN. OF 48" IN WIDTH.
- 3. SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

CLIENT



SEAL



Table with 4 columns: Project Number, Drawn By, Date, Issued. Values include 22-087, DDXU, 05/12/2022, 95% REVIEW.

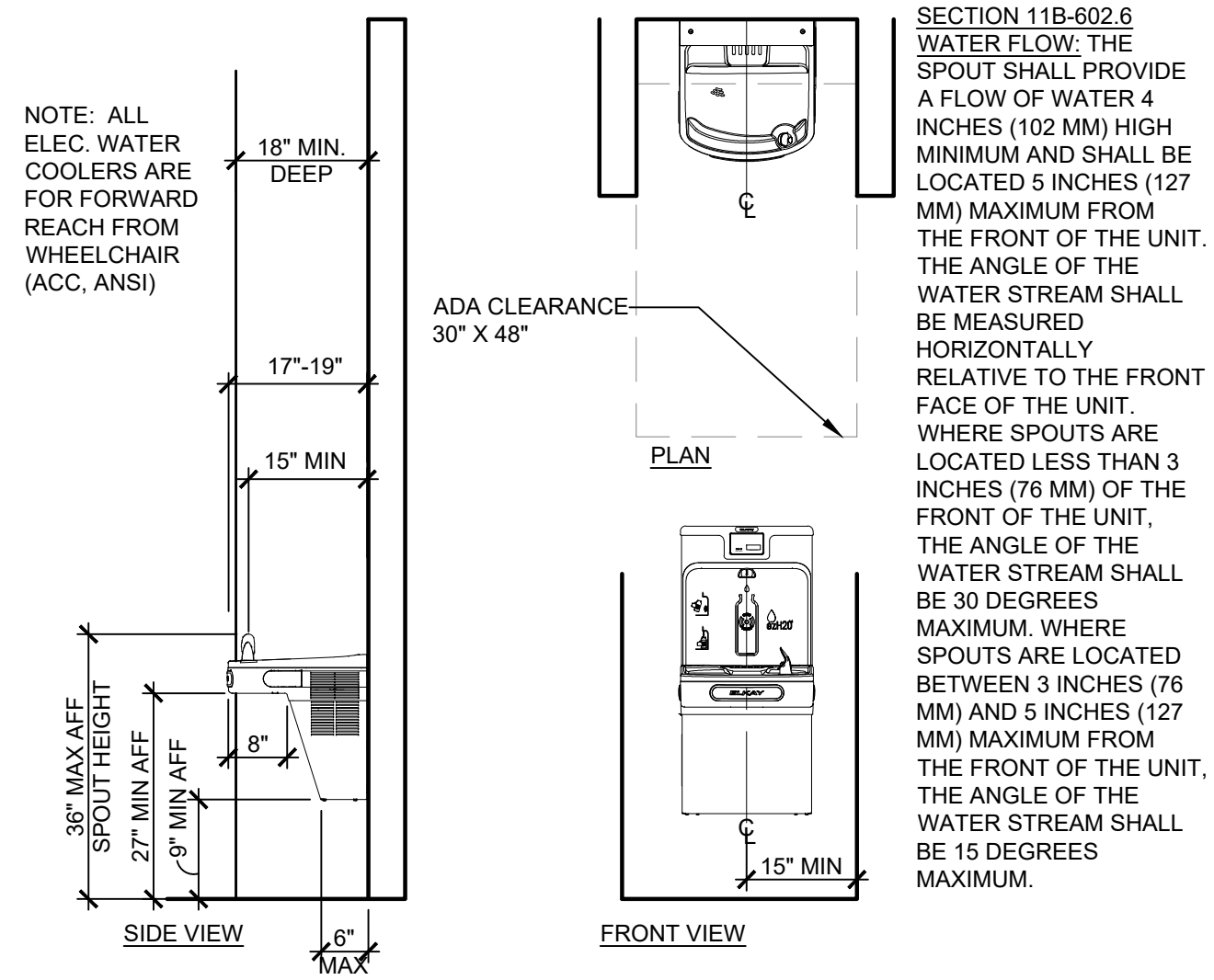
SHEET TITLE & NUMBER

GENERAL NOTES

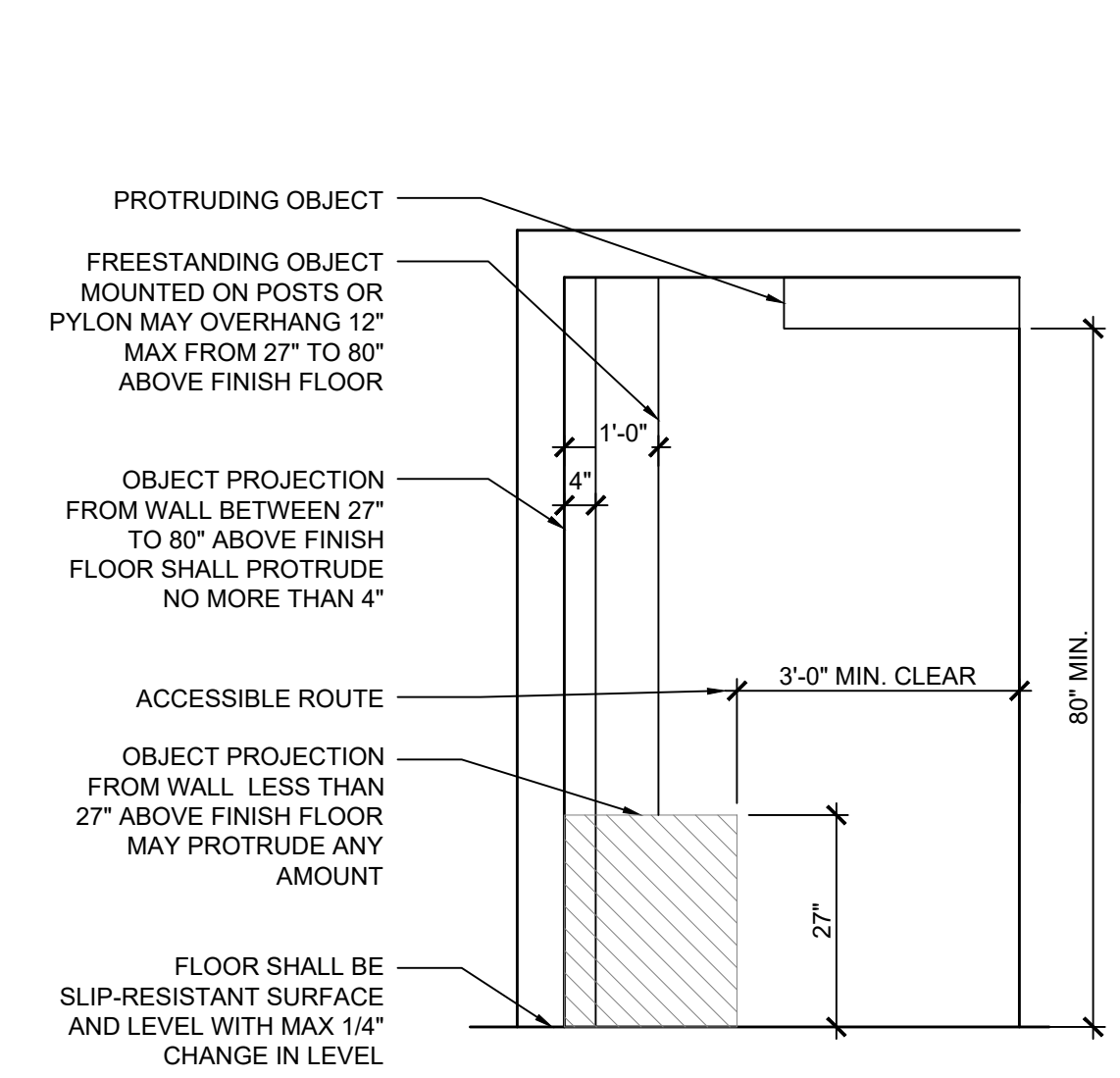
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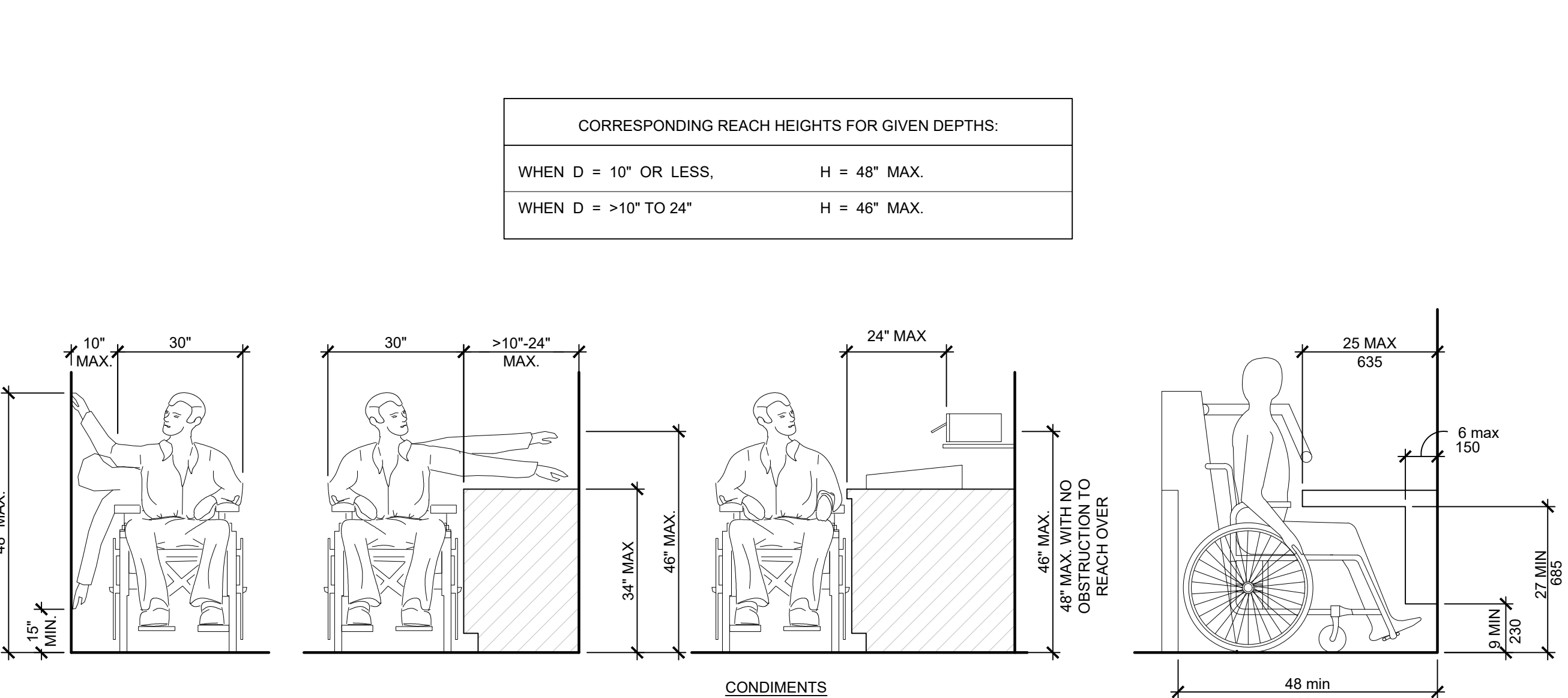
8 ADA DRINKING FOUNTAIN



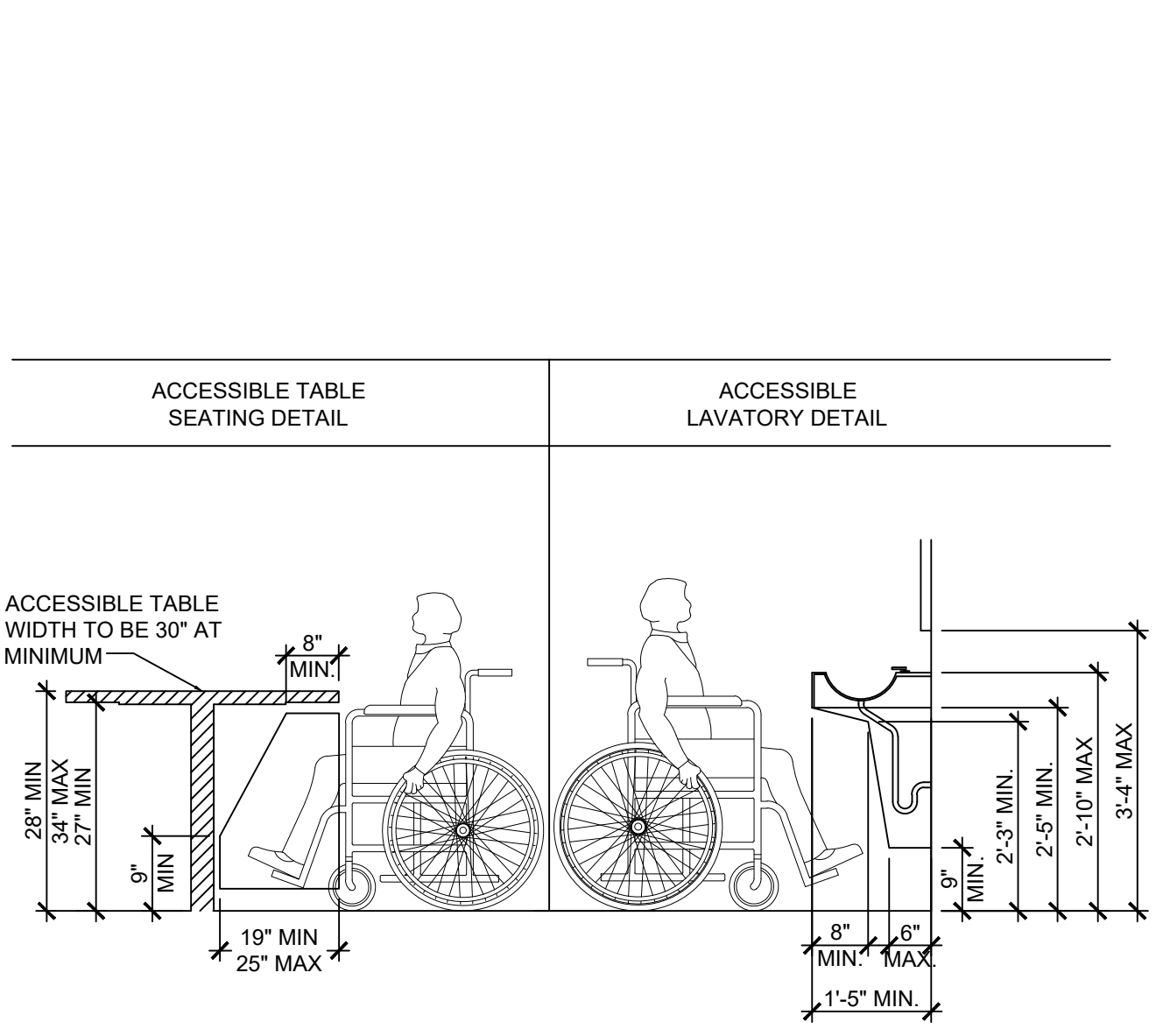
5 INTERIOR ACCESS ROUTE



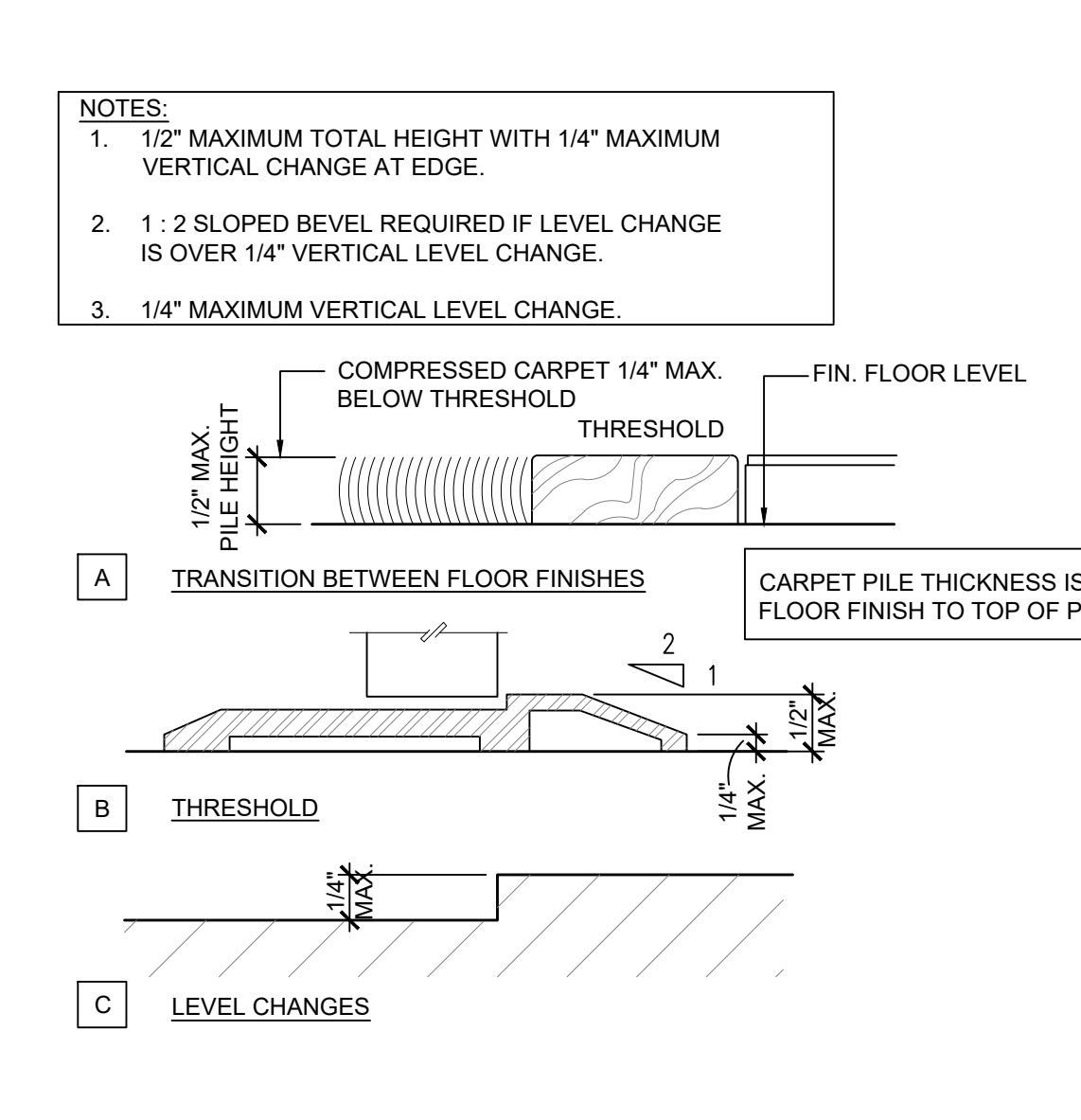
2 ADA REACH RANGES



7 ADA BENCH DETAIL



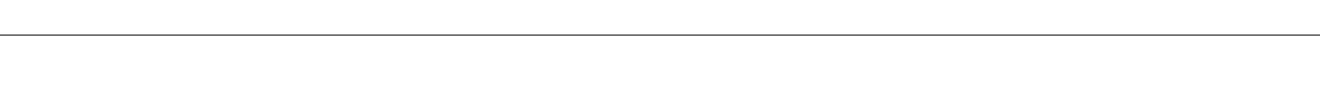
4 PROTRUDING OBJECTS



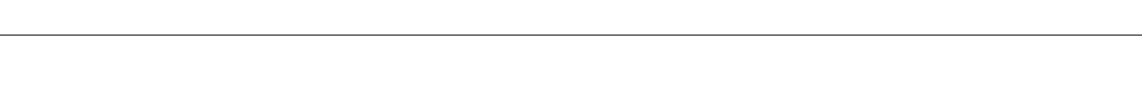
1 ADA DOOR CLEARANCES

1/4" = 1'-0"

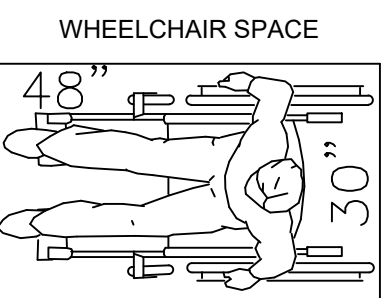
6 ACCESSIBLE ILLUSTRATIONS



3 CHANGES IN LEVEL



IBC AT LEAST 60 PERCENT, BUT NOT LESS THAN ONE OF THE ENTRANCES TO EACH BUILDING AND STRUCTURE TO EACH SEPARATE TENANT SPACE WITHIN THE BUILDING OR STRUCTURE SHALL COMPLY WITH THE ACCESSIBLE ROUTE PROVISIONS OF THIS CHAPTER.



SECTION 305.3 ICC/ANSI A117.1-2003

MUNICIPAL APPROVAL STAMP

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CLIENT

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PERMIT / BID

Project Number: 22-067
Drawn By: Approved By: XX
Date: 05/12/2022

No. Issue
95% REVIEW
ISSUED FOR PERMIT & BID
06/09/2022

SHEET TITLE & NUMBER

ACCESSIBILITY REQUIREMENTS

G1-10

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SPECIFICATIONS

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DIVISION 01 - GENERAL REQUIREMENTS

- 1. THE WORK INCLUDES NEW TENANT IMPROVEMENTS IN AN EXISTING STAND ALONE SPACE, PER SQUARE FOOT CALCULATIONS AS NOTED ON THE TITLE SHEET. CONTRACT WILL INCLUDE CONSTRUCTING WALLS, CEILINGS & FLOOR PER CLIENT APPROVED FINISHES, DETAILS & SPECIFICATIONS. SECURE & PAY FOR GOVERNMENT FEES, LICENSES, & PERMITS.
2. CONTRACTORS SHALL VISIT THE PREMISES WHILE BIDDING & SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS & THE REQUIREMENTS OF THE PROJECT PRIOR TO DEVELOPING THEIR BID. MATERIAL QUANTITIES SHALL BE BASED ON ACTUAL FIELD CONDITIONS & MEASUREMENTS. DO NOT RELY ON SCALING PLANS FOR ACCURATE DIMENSIONING.
3. PRIOR TO BEGINNING THE WORK, VERIFY ALL EXISTING DIMENSIONS & SQUARE FOOTAGES. NOTIFY THE OWNER OF COMPLIANCE OR DISCREPANCIES, COMPARING THOSE DISCREPANCIES TO THE NUMBERS ON THE TITLE SHEET.
4. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST & DAMAGE DURING THE CONSTRUCTION PROCESS & SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY. ANY DAMAGE DONE TO ADJACENT AREAS MUST BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
5. ALL RUBBISH & TRASH SHALL BE REMOVED FROM THE PREMISES & PROPERLY DISPOSED OF EACH DAY. NO RUBBISH SHALL BE LEFT IN THE PREMISES AFTER WORK IS COMPLETED EACH DAY.
6. ALL DRAWINGS HEREIN CREATE AN ENTIRE PACKAGE. ALL TRADES SHALL BE RESPONSIBLE FOR REVIEWING THEIR RESPECTIVE REQUIREMENTS & COORDINATING THEIR HIDDEN OR EXPOSED WORK WITH OTHER RELATED TRADES. COORDINATE ALL WORK OF THE VARIOUS TRADES & SUBCONTRACTORS TO ASSURE EFFICIENT & ORDERLY INSTALLATION.
7. PROVIDE ACCOMMODATION FOR ITEMS INSTALLED AT A LATER DATE. VERIFY THAT CHARACTERISTICS OF ELEMENTS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE; COORDINATE WORK OF VARIOUS SECTIONS WHICH HAVE INTERDEPENDANT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO, & PLACING IN SERVICE, SUCH EQUIPMENT. COORDINATE SPACE REQUIREMENTS & INSTALLATION OF MECHANICAL & ELECTRICAL WORK & FIRE SPRINKLER SYSTEM WHICH ARE INDICATED, DETAILED, OR IMPLIED DIAGRAM-MATICALLY ON DRAWINGS.
8. UNLESS SPECIFICALLY NOTED, PROVIDE & PAY FOR LABOR, MATERIALS & EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT & MACHINERY & OTHER FACILITIES & SERVICES NECESSARY FOR PROPER EXECUTION & COMPLETION OF WORK, INCLUDING PERMITS. TEMPORARY UTILITIES SHALL BE ARRANGED & PAID FOR BY GENERAL CONTRACTOR.
9. GENERAL CONTRACTOR SHALL PURCHASE & MAINTAIN INSURANCE COVERAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD & THE TENANT. VERIFY & COORDINATE WITH THE TENANT'S PROJECT MANAGER ANY ADDITIONAL REQUIREMENTS.
10. FURNISH ALL REQUIRED TEMPORARY FACILITIES & ALL TEMPORARY UTILITIES IMMEDIATELY AFTER RECEIPT OF NOTICE TO PROCEED FOR USE IN CONVENIENCE OF ALL THOSE ENGAGED IN THE PROJECT WORK.
11. ALL CONTRACTORS MUST STAY BEHIND THE BARRIERS & MAINTAIN ACCESS TO SUCH AREAS CLEAN & FREE OF CONSTRUCTION MATERIALS & DEBRIS. FAILURE TO MAINTAIN CLEAN STOREFRONT WILL RESULT IN BUILDING MANAGEMENT HAVING SUCH MATERIALS & DEBRIS REMOVED & ALL CHARGES FOR MAINTENANCE BILLED TO GENERAL CONTRACTOR.
12. COORDINATE ALL CONSTRUCTION & SCHEDULING WITH THE BUILDING MANAGER REVIEWING ALL SCHEDULED ACTIVITIES AT OUTSET OF CONSTRUCTION.
13. THE OWNER OR THE OWNER'S SUBCONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING THE FINAL STAGE OF CONSTRUCTION. COORDINATE & COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT & FACILITATE THE OWNER'S OPERATION.
14. ALL DIMENSIONS & FINISHES SHALL BE VERIFIED & COORDINATED WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION, FABRICATION, OR PURCHASING. IN CASE OF CONFLICT BETWEEN THE PROJECT REQUIREMENTS AND/OR EXISTING CONDITIONS, THE ARCHITECT OR OWNER SHALL BE CONTACTED FOR DIRECTION.
15. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO INSURE THE HIGHEST QUALITY FINISHED PRODUCT - EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.
16. COORDINATE BLOCKING REQUIREMENTS WITH ADJACENT OR RELATED TRADES, ACCESSORIES, EQUIPMENT & FIXTURES. INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACT.
17. REPAIR PROPERTY DAMAGE BY THE INSTALLERS TO A LIKE NEW CONDITION OR REPLACE DAMAGED SURFACES & MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS & SUBCONTRACTORS.
18. WHERE REQUESTED BY THE OWNER TO CERTIFY CONFORMANCE TO TRADE STANDARDS OR THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL ENLIST A TESTING LABORATORY AT THE OWNER'S COST. IF THE REQUESTED TEST SHOWS NON-COMFORMANCE TO GENERALLY ACCEPTED TRADE STANDARDS OR THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AT NO ADDITIONAL COSTS TO THE OWNER & REIMBURSE ALL THE COSTS OF THE TESTING TO THE OWNER, UNLESS THE CONTRACTOR HAS USED PRODUCTS INCORRECTLY LABELED BY THE MANUFACTURER OR HAS MADE PREVIOUSLY APPROVED CHANGES.
19. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLS & UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT & OWNER'S PROPERTY FROM THEFT & VANDALISM & THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY OWNER.
20. MAINTAIN AN ACTIVE FIRE EXTINGUISHER AT THE PROJECT.
21. DO NOT USE MATERIAL OR EQUIPMENT FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY DESIGNED OR SPECIFIED. ALL MATERIALS & EQUIPMENT THAT ARE SIMILAR SHALL BE THE SAME TYPE, MODEL, & STYLE FOR THE SAME USE THROUGHOUT THE PROJECT OR THEY SHALL BE REJECTED.
22. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS.
23. ALL PRODUCTS & EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION & STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNFIT MATERIALS, AT NO COST TO THE OWNER.
24. NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE & READY

- FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION & MAINTENANCE INSTRUCTIONS & GUARANTEES FOR ALL EQUIPMENT & MATERIALS INSTALLED. PROVIDE WRITTEN GUARANTEES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
25. PROVIDE FINAL CLEAN-UP & DAMAGE REPAIR AT THE PROJECT CONCLUSION. LEAVE THE PREMISES NEAT, CLEAN & CLEAR OF TOOLS, EQUIPMENT & SURPLUS MATERIALS, UNLESS REQUESTED BY THE OWNER. CLEAN-UP SHALL INCLUDE & NOT BE LIMITED TO:
a. POWER VACUUMING THE ENTIRE SPACE.
b. HAND DUSTING & CLEANING OF ALL SHELVING, CABINETRY, CASEWORK, GLASS & MIRRORS BOTH INSTALLED UNDER THIS CONTRACT OR EXISTING WALLS, CEILINGS, FIXTURES, ETC.
c. REPAIR OR REPLACEMENT OF PROPERTY DAMAGED DURING FINAL COMPLETION OF THE PROJECT.
d. G.C. TO HIRE & PAY FOR PROFESSIONAL CLEANING ON (2) OCCASIONS: ONCE BEFORE TURNOVER TO TENANT (MERCHANDISING) & AGAIN BEFORE OPENING.

DIVISION 02 - DEMOLITION / BUILDING ALTERATIONS

- 1. THE WORK MAY INCLUDE DEMOLITION OF EXISTING CONSTRUCTION, REMOVAL OF VARIOUS ITEMS OF EQUIPMENT & CONSTRUCTION & THE CUTTING OR ALTERATION OF EXISTING CONSTRUCTION AS SHOWN, NOTED OR IMPLIED ON THE DRAWINGS. CONTRACTOR SHALL DETERMINE & INVENTORY ALL NECESSARY DEMOLITION & ALTERATION OF ITEMS TO PROVIDE FOR A COMPLETE INSTALLATION OF NEW WORK. ALL COSTS OF REMOVAL, REPAIR OR REPLACEMENT SHALL BE INCLUDED IN THE BID. ADDITIONAL COSTS FOR DEMOLITION OF ITEMS HIDDEN OR INACCESSIBLE DURING THE BIDDING PHASE, SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING THE WORK.
2. AT ALTERED CONSTRUCTION, REPAIR CUT EDGES, REPLACE CONSTRUCTION & FIT NEW TO EXISTING CONSTRUCTION TO MATCH EXISTING WORK. MAKE JOINTS OF NEW & EXISTING PATCHES VERY SMOOTH, EVEN & PRACTICALLY INVISIBLE. COORDINATE ALL REPLACEMENT & REPAIR REQUIREMENTS WITH LANDLORD'S CONSTRUCTION CRITERIA & TENANT'S COORDINATOR.
3. SAW-CUT CONCRETE WITH DIAMOND SAW. JACKHAMMERING WILL NOT BE PERMITTED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE LANDLORD. CUT IN ACCURATELY LOCATED, STRAIGHT LINES & BREAK OUT SECTIONS. FLOOR MAY BE CORE DRILLED WHERE APPROPRIATE FOR INSTALLATION OF PIPES & SIMILAR ITEMS. COORDINATE ALL CORE LOCATIONS & SLAB MODIFICATIONS WITH LANDLORD'S STRUCTURAL ENGINEER. WHERE EXISTING PIPING & OTHER SIMILAR ITEMS ARE UNDER EXISTING SLABS, EXERCISE CARE TO PROTECT FROM DAMAGE. EXERCISE CARE WHEN CUTTING ADJACENT TO EXISTING WALLS TO AVOID DAMAGE TO WALLS. IF DAMAGED, REPAIR AS REQUIRED TO ORIGINAL CONDITION.
4. DOORS & FRAMES: IF DOORS & FRAMES ARE TO BE REUSED ON THE WORK, CAREFULLY REMOVE DOOR FROM FRAMES & REMOVE FRAMES FROM OPENING, TAKING CARE TO AVOID DAMAGE. REMOVE HARDWARE, CLEAN, REFURBISH & STORE FOR REINSTALLATION WHERE INDICATED. FOR DOORS & FRAMES TO BE SALVAGED, CAREFULLY REMOVE FROM OPENING & DELIVER FOR STORAGE WHERE INDICATED.
5. PREVENT MOVEMENT OR SETTLEMENT OF STRUCTURE. PROVIDE & PLACE BRACING & SHORING & BE RESPONSIBLE FOR SAFETY & SUPPORT OF STRUCTURE, AS DETERMINED BY G.C. ENLISTED STRUCTURAL ENGINEER. ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT DAMAGE OR INJURY.
6. ARRANGE & PAY FOR DISCONNECTING, REMOVING & CAPPING UTILITY SERVICES WITHIN AREAS AFFECTED BY DEMOLITION. PLACE MARKERS TO INDICATE LOCATION OF DISCONNECTED SERVICES. LOCATE SPRINKLER SHUT-OFF VALVE & SMOKE ALARM PRIOR TO COMMENCING WORK; COORDINATE REQUIRED MODIFICATION WITH LANDLORD.
7. CAREFULLY REMOVE MATERIALS & EQUIPMENT WHICH ARE INTENDED TO BE REUSED, STORE IN A SECURE LOCATION. REMOVE DEBRIS, REFUSE & MATERIALS BEING DEMOLISHED IMMEDIATELY FROM THE SITE.
8. ERECT & MAINTAIN WEATHERPROOF & DUSTPROOF CLOSURES & PARTITIONS TO PREVENT WEATHER DAMAGE OR SPREAD OF DUST, FUMES & SMOKE TO OTHER PARTS OF THE BUILDING, IN ACCORDANCE WITH MALL GUIDELINES & STIPULATIONS.
9. PERFORM DEMOLITION IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION.
10. REPAIR ALL DEMOLITION IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER.
11. REMOVE FROM SITE CONTAMINATED, VERMIN INFESTED OR DANGEROUS MATERIALS ENCOUNTERED; DISPOSE OF BY SAFE MEANS TO PROTECT HEALTH OF WORKERS & PUBLIC.

DIVISION 03 - CONCRETE REPAIR & REPLACEMENT

- 1. WORK INCLUDES: PATCHING OF SLAB AFTER DEMOLITION & REMOVAL OF FINISHES; FILLING & LEVELING JOINTS & CRACKS; FILLING ABANDONED ELECTRICAL BOXES & ANY HOLES GREATER THAN 1/2".
2. USE RAECO-LITH "R-35" AS UNDERLAYMENT FOR PATCHING OR APPROVED EQUAL. MIX SHALL BE TWO PARTS - MORTAR MIX & LATEX BINDER. MIX & INSTALL PER MANUFACTURER'S LATEST WRITTEN & RECOMMENDED DIRECTIONS.

DIVISION 04 - MASONRY

CONCRETE MASONRY UNITS

- 1. CONCRETE MASONRY UNITS ARE TO BE SQUARE-EDGED UNITS FOR OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED.
2. WHERE REQUIRED, USE DECORATIVE CONCRETE MASONRY UNITS TO MATCH EXISTING SHELL FINISH:
a. EXPOSED FACES TO BE GROUND FINISH, SPLIT-FACE FINISH OR SPLIT-RIBBED FINISH TO MATCH EXISTING

FACE BRICK

- 1. FACE BRICK (ASTM C 216) IS TO BE OF STANDARD SIZE TO MATCH EXISTING SHELL SPACE.
2. CONTRACTOR IS TO USE SOLID BRICK WITH FINISHED SURFACES AT ENDS &

- CAPS.
3. SPECIAL SHAPES ARE TO BE USED IN APPLICATIONS WHERE SAW CUTTING WOULD LEAVE EXPOSED END UNFINISHED EXPOSED TO VIEW.

MORTAR

- 1. ASTM 270, ASTM C 1142 & UBC STANDARD 21-15 ARE ACCEPTABLE.
2. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR MIXTURE.
3. FOR MASONRY BELOW GRADE, IN CONTACT WITH EARTH, REINFORCED MASONRY TYPE S OR RS SHALL BE USED (MATCH EXISTING). FOR EXTERIOR ABOVE GRADE, LOAD BEARING, NON-LOAD BEARING & PARAPET WALLS TYPE N OR RN SHALL BE USED (MATCH EXISTING).

JOINT & CELL REINFORCEMENT, TIES & ANCHORS

- 1. PROVIDE JOINT REINFORCEMENT FORMED FROM GALVANIZED CARBON-STEEL WIRE (ASTM A 153, CLASS B-2 FOR BOTH INTERIOR & EXTERIOR WALLS)
2. FOR SINGLE-WYTHE MASONRY, PROVIDE LADDER OR TRUSS DESIGN REINFORCEMENT.
3. INSTALL #4 BARS MIN. AT ENDS OF WALLS & 48" O.C. MIN. IN SOLID GROUTED CELLS OVERLAP BARS 18" MIN. & TIE, AS REQUIRED.

EXECUTION

- 1. CUT MASONRY UNITS WITH MOTOR-DRIVEN SWAS. INSTALL CUT UNITS WITH CUT SURFACE CONCEALED.
2. MASONRY UNITS TO BE MIXED FROM SEVERAL PALLETS AS THEY ARE PLACED TO CREATE UNIFORM BLEND OF COLOR & TEXTURE.
3. COURSING, BONDING, COLOR & TEXTURE OF NEW MASONRY IS TO MATCH EXISTING.
4. EXPOSED JOINTS ARE TO BE TOOLED SLIGHTLY WHEN THUMBPRINT HARD.
5. ALL CAVITIES ARE TO BE KEPT CLEAN OF MORTOR DROPPINGS & OTHER MATERIALS DURING CONSTRUCTION. CAVITY JOINTS ARE TO BE TOOLED FLUSH.
6. AFTER MORTOR HAS COMPLETELY SET & CURED, ALL LARGE MORTOR PARTICLES ARE TO BE REMOVED & UNITS MASONRY IS TO BE SCRUBED THOROUGHLY.

CLEANING

- 1. MASONRY BLOCK, FACE BRICK & VENNER TO BE CLEANED AS WORK PROGRESSES. MORTOR FINIS, SMUDGES & SMEARS ARE TO BE REMOVED PRIOR TO TOOLING JOINTS.
2. AFTER MORTOR HAS COMPLETELY SET & CURED, ALL LARGE MORTOR PARTICLES ARE TO BE REMOVED & UNITS MASONRY IS TO BE SCRUBED THOROUGHLY.
3. SHEET STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM A606.

DIVISION 05 - METAL FABRICATIONS

- 1. PROVIDE ALL MISCELLANEOUS METAL ITEMS INCLUDING MATERIALS, FABRICATIONS, FASTENINGS & ACCESSORIES REQUIRED FOR FINISHED INSTALLATION AS INDICATED & SPECIFIED.
2. STEEL SHALL BE ASTM A366 AMERICAN OPEN HEARTH SHEET STEEL, FREE FROM SCALE & PITTING & OTHER DEFECTS AFFECTING APPEARANCE.
3. TUBING SHALL CONFORM TO REQUIREMENTS OF ASTM A500 OR A501 AS APPROVED.
4. WHERE METAL ITEMS ARE TO BE ERECTED & IN CONTACT WITH DISSIMILAR MATERIALS, PROVIDE CONTACT SURFACES WITH COATING OF AN IMPROVED ZINC CHROMATE PRIMER IN A MANNER TO OBTAIN NOT LESS THAN 1.0 MIL DRY FILM THICKNESS.
5. CARBON STEEL BARS SHALL CONFORM TO REQUIREMENTS OF ASTM A321.
6. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221. REVEALS TO BE CLEAR ANODIZED FINISH (UNLESS OTHERWISE NOTED).
7. FASTENERS SHALL BE AS REQUIRED FOR ASSEMBLY & INSTALLATION OF FABRICATED ITEMS.
8. BOLTS SHALL BE LOW CARBON STEEL EXTERNALLY & INTERNALLY THREADED FASTENERS CONFORMING WITH REQUIREMENTS OF ASTM A307; INCLUDE NECESSARY NUTS & PLAIN HARDENED WASHERS. FOR MEMBERS FOR SUPPORT OF STRUCTURAL MEMBERS OR CONNECTION THERETO, USE FASTENERS CONFORMING WITH ASTM A325. FOR STAINLESS STEEL & NON- FERROUS ITEMS, USE TYPE 302 & 304 STAINLESS STEEL FASTENERS.
9. MISCELLANEOUS MATERIALS: PROVIDE ALL INCIDENTAL ACCESSORY MATERIALS, TOOLS, METHODS & EQUIPMENT REQUIRED FOR FABRICATION & INSTALLATION OF MISCELLANEOUS METAL ITEMS AS INDICATED ON DRAWINGS.
10. VERIFY DIMENSIONS PRIOR TO FABRICATION OR CASTING. FORM METAL ITEMS TO ACCURATE SIZES & CONFIGURATIONS AS INDICATED ON DRAWINGS & OTHERWISE REQUIRED FOR PROPER INSTALLATION; FABRICATE WITH ALL LINES STRAIGHT & ANGLES SHARP, CLEAN & TRUE; DRILL, COUNTERSINK, TAP & OTHERWISE PREPARE ITEMS FOR CONNECTION WITH WORK OF OTHER TRADES. MAKE PERMANENT CONNECTIONS BY WELDING & GRIND ALL EXPOSED WELDS SMOOTH TO MATCH ADJACENT SURFACES; ROUGH JOINT SURFACES NOT PERMITTED. AVOID USING BOLTS & SCREWS UNLESS SPECIFICALLY INDICATED OR APPROVED; WHEN USED, DRAW UP TIGHT & TIE THREADS TO PREVENT LOOSENING.
11. ALL FERROUS METAL ITEMS SHALL BE SHOP FINISHED. TOUCH-UP OR REPAIR DAMAGED AREAS PRIOR TO INSTALLATION WITH SAME MATERIAL.
12. PROVIDE CONTACT SURFACES WITH CONCRETE MASONRY OR OTHER DISSIMILAR MATERIALS WITH A MINIMUM ONE POINT ZERO (1.0) MIL DRY THICKNESS OF AN APPROVED ZINC CHROMATE PRIMER.
13. PROVIDE ALL STEEL BLOCKING & BRACING IN METAL STUD FRAMED PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT & FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS & ELSEWHERE, AS REQUIRED.
14. FABRICATE ALL MISCELLANEOUS FRAMING & BRACING ITEMS TO DETAIL OF STRUCTURAL SHAPES, PLATES & BARS; WELD JOINTS WHERE PRACTICAL; PROVIDE BOLTS & OTHER CONNECTION DEVICES REQUIRED. INCLUDE

- ANCHORAGES, CLIP ANGLES, SLEEVES, ANCHOR PLATE & SIMILAR DEVICES, WHETHER IMPLIED OR INDICATED. SET ACCURATELY IN POSITION AS REQUIRED & ANCHOR SECURELY TO BUILDING CONSTRUCTION WITH FASTENERS APPROPRIATE TO THE INSTALLATION

DIVISION 06 - WOOD & PLASTICS

- 1. PROVIDE ROUGH LUMBER & PLYWOOD IN STANDARD DIMENSIONS. MOISTURE CONTENT NOT MORE THAN 19%.
2. PROVIDE ALL NECESSARY ROUGH HARDWARE IN SIZES & QUANTITIES REQUIRED BY LOCAL CODE OR APPROVED BY ARCHITECT.
3. USE FINISH OR CASING NAILS FOR EXPOSED WORK; USE TYPE "S" TRIM HEAD SCREWS FOR ATTACHMENT OF WOOD TRIM TO METAL STUDS, RUNNERS OR FURRING.
4. RELIEVE BACKS OF WOOD TRIM; KERF BACKS OF MEMBERS MORE THAN 5" WIDE & 1" NOMINAL THICKNESS; EASE ALL EXTERNAL CORNERS.
5. INSTALL LAMINATES ONLY WHEN RECEIVING SURFACES ARE IN A SATISFACTORY CONDITION FOR INSTALLATION.
6. PROTECT FROM DAMAGE BY OTHER TRADES WORKING ADJACENT TO THE INSTALLATION. REPLACE DAMAGED SURFACES.
7. REMOVE EXCESS ADHESIVE & CLEAN SURFACES USING MANUFACTURER'S RECOMMENDED SOLVENT & CLEANING PROCEDURES.
8. FILL IN ALL SEAMS WITH MANUFACTURER'S APPROPRIATE COLOR SEAM COMPOUND.
9. INSTALL WOODS & PLASTICS IN CONFORMANCE WITH DETAILS WITH THE FOLLOWING CONSIDERATIONS & REQUIREMENTS:
a. INSTALL ALL MATERIAL WITH TIGHT JOINTS.
b. MITER CASINGS & MOLDINGS.
c. ALL RUNNING TRIM ONE (1) PIECE UP TO 10'-0". MATCH GRAIN & COLOR PIECE TO PIECE.
d. USE FINISH NAILS EXCEPT WHERE SCREWS ARE SPECIFICALLY CALLED FOR OR WHERE SCREWS DO NOT SHOW.
e. SET FASTENERS FOR PUTTYING.
f. WHERE SCREW ATTACHMENT REQUIRED, SPACE SCREWS AT EQUAL INTERVALS; SINK & PUTTY IN FINISH WOOD SURFACES.
g. ALL MEMBERS & LINES LEVEL & PLUMB.
h. SELECT & CUT MATERIAL TO EXCLUDE DAMAGED, MARKED OR DEFECTIVE AREAS.
i. FINISH EXPOSED SURFACES SMOOTH, FREE FROM TOOL & MACHINE MARKS.
j. EASE ALL EXPOSED WOOD EDGES 1/8" MINIMUM RADIUS.
k. INSTALL FIRE RATED DOORS IN ACCORDANCE WITH REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RECOMMENDATIONS.

DIVISION 07 - SEALANTS & CAULKING

- 1. PROVIDE NON-SAG SEALANT COMPLYING WITH REQUIREMENTS OF FEDERAL SPECIFICATIONS TTS-1543 OR FS TT-S-230 TYPE "II", CLASS "A". PROVIDE ACOUSTICAL SEALANT WHICH SHALL BE NON-HARDENING, NON-DRYING SYNTHETIC RUBBER SEALING COMPOUND WITH MINIMUM 90% SOLIDS. USE AT ALL INTERIOR JOINTS AT INTERSECTIONS BETWEEN PLANES, AROUND DOOR & WINDOW FRAMES PRIMER SHALL BE MADE OR RECOMMENDED BY SEALANT MANUFACTURER FOR THE SPECIFIC CONDITIONS & SUBSTRATES.
2. PROVIDE BACKING MATERIAL BY DOW "ETHAFOAM" OR APPROVED EQUAL. APPLY SEALANT OVER BACKING TO UNIFORM THICKNESS IN CONTINUOUS BEADS FILLING ALL JOINTS & VOIDS, SOLID. SUPERFICIAL POINTING WITH THE SKIM BEAD WILL NOT BE ACCEPTED. JOINTS OVER 1/4" IN WIDTH MUST BE REDUCED / ADJUSTED PRIOR TO SEALING. ALL GAPS WIDE ENOUGH TO ACCEPT A SLIP OF PAPER MUST BE SEALED.
3. ALL SURFACES SHALL BE ADEQUATELY CLEANED & PREPARED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS PRIOR TO INSTALLATION.
4. ALL PENETRATIONS IN MILLWORK ARE TO BE SEALED BY G.C. EXPOSED WOOD SURFACES IN CABINETS / COUNTERS ARE TO BE SEALED BY MILLWORK CONTRACTOR.

DIVISION 08 - WOOD & HOLLOW METAL DOORS & FRAMES

- 1. PROVIDE FULLY WELDED DOOR FRAMES AT ALL G.C. PROVIDED DOORS, FREE FROM SCALE & PITTING & OTHER SURFACE DEFECTS, UNLESS OTHERWISE NOTED.
2. PROVIDE HOLLOW METAL EXIT DOOR CONSTRUCTED WITH THE FOLLOWING MATERIALS:
- MINIMUM 18 GA. FOR FACE SHEETS OF INTERIOR DOORS.
- 16 GA. FOR EDGE CHANNELS.
- MINIMUM 22 GA. FOR FACE STIFFENERS.
- MINIMUM 16 GA. FOR INTERIOR FRAMES.
3. PROVIDE DOORS OF SIZES & TYPES INDICATED ON DRAWINGS, FULLY WELDED SEAMLESS CONSTRUCTION WITH NO VISIBLE SEAMS OR JOINTS ON FACES OR VERTICAL EDGES; THICKNESSES AS SCHEDULED ON DRAWINGS. DOOR TOPS TO BE ENCLOSED W/ NO OPEN CHANNEL.
4. FACE STIFFENERS, EDGES & HARDWARE REINFORCEMENT SHALL BE THE HIGHEST QUALITY WORKMANSHIP & MATERIALS. PROVIDE IN ACCORDANCE WITH BEST TRADE PRACTICE & MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR THE USE INTENDED.
5. HARDWARE REINFORCEMENT & ANCHORS (ERECTION, FLOOR & JAMB) SHALL BE AS REQUIRED FOR A SECURE INSTALLATION & SHALL BE IN ACCORDANCE WITH TRADE REQUIREMENTS FOR THE SPECIFIED HARDWARE & INTENDED USE.
6. AFTER FABRICATION, DRESS, FILL & SAND EXPOSED SURFACES, BODY-PUTTY HOLES & IMPERFECTIONS. APPLY UNIFORM COAT OF MANUFACTURER'S STANDARD PRIME COAT TO ALL EXPOSED SURFACES. LEAVE READY TO RECEIVE FINISH PAINTING.
7. INSTALL FRAMES IN ACCURATE LOCATIONS AS INDICATED ON DRAWINGS. INSTALL RIGID, PLUMB, LEVEL & TRUE. ALIGN WITH ADJACENT CONSTRUCTION. SECURE FLOOR ANCHORS TO FLOOR CONSTRUCTION WITH APPROVED TYPE MECHANICAL FASTENINGS; ANCHOR TO ADJOINING WALLS WITH SPECIFIED ANCHORS. BRACE FRAMES TO RETAIN POSITION & CONTINUOUSLY CHECK ALIGNMENT DURING CONSTRUCTION OF ADJACENT WALLS. ADJUST FRAME LOCATIONS AS NECESSARY USING SHIMS BEFORE FASTENING. LEAVE READY TO RECEIVE SEALANT AS REQUIRED. INSTALL DOOR SILENCERS AT ALL INTERIOR FRAMES.
8. INSTALL WOOD DOORS, FRAMES, & TRIM. SIZES & THICKNESS AS SCHEDULED ON THE DRAWINGS.

- PREPARE DOORS FOR FINISH HARDWARE. OBTAIN TEMPLATES FROM HARDWARE MANUFACTURER & CONFIRM TYPE, LOCATION & SPECIAL REQUIREMENTS OF HARDWARE FOR EACH DOOR PRIOR TO CUTTING.
10. HANG DOORS AS SCHEDULED ON DRAWINGS, IN ACCURATE LOCATIONS WITH 1/8" CLEARANCE AT TOPS & 3/8" CLEARANCE AT BOTTOM, UNLESS SPECIFICALLY NOTED FOR "UNDERCUTS" OR OTHER DEVIATIONS IN FIT. MAKE NO JOIST FIT IN CUTS UNLESS APPROVED. HANG PAIRS OF DOORS AS SPECIFIED WITH 3/32" CLEARANCE AT MEETING EDGES. DEMONSTRATE THAT DOORS OPEN FREELY WITHOUT BINDING, & WHEN CLOSED, WILL LATCH PROPERLY.
11. ACCESS DOORS TO BE PROVIDED BY GENERAL CONTRACTOR AS REQUIRED. PROVIDE ACCESS DOORS BY MILCOR OR EQUAL. USE STYLE DW AT WALLS & CEILINGS, (OR AS REQUIRED FOR RATING). SIZE AS INDICATED. FRAME SHALL BE GALVANIZED STEEL DRYWALL BEAD FOR FRAME CONCEALMENT. PANEL SHALL BE 14GA. STEEL WITH SPRINT TYPE CONCEALED HINGES OPENING TO 175 DEGREES. LOCKS SHALL BE FLUSH. SCREWDRIVER OPERATED WITH METAL CAN. PRIME COAT SHALL BE FACTORY APPLIED.
12. PROVIDE WEATHERSTRIPPING AT ALL EXTERIOR DOORS, AS REQUIRED TO PROVIDE NO VISIBLE LIGHT LEAKS, WEATHERSTRIPPING IS TO BE FASTENED TYPE. ADHERED RUBBER TYPE STRIPS ARE NOT ACCEPTABLE. PROVIDE VERTICAL BRUSH TYPE STRIP BETWEEN LEADING EDGES AT DOUBLE DOORS.
13. THRESHOLDS ARE TO BE SEALED TO FLOOR AT ALL LOCATIONS.

HARDWARE

- 1. ALL FINISH HARDWARE FOR COMPLETE WORK SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH DRAWINGS & SPECIFICATIONS. QUANTITIES LISTED, IN ANY INSTANCE, ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY & ARE NOT GUARANTEED. ITEMS NOT SPECIFICALLY MENTIONED BUT NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED MATCHING THE QUALITY & FINISH OF THE ITEMS SPECIFIED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION & FITTING OF HARDWARE IN LOCATIONS SPECIFIED. THE CONTRACTOR MUST SUPPLY A ROOM UNDER LOCK & KEY TO STORE ALL FINISH HARDWARE UNTIL INSTALLATION IS MADE. THE HARDWARE SUPPLIER MUST MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION & LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED & WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
3. PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH REQUIREMENTS OF NFPA 80. THIS REQUIREMENT TAKES PRECEDENCE OVER OTHER REQUIREMENTS FOR SUCH HARDWARE.
4. HARDWARE FINISH SHALL BE DARK BRONZE US -10B IN PUBLIC AREAS & SATIN CHROME IN NON-PUBLIC AREAS, U.N.O.
5. HARDWARE SUPPLIER WILL PROVIDE APPROVED SCHEDULED & PAPER TEMPLATES TO VARIOUS OTHER SUPPLIERS FOR DOOR & FRAME PREPARATION FOR HARDWARE.
6. FURNISH & FINISH HARDWARE, CYLINDERS & KEYS: "BEST" SEVEN PIN ROD.
7. EACH ITEM OF HARDWARE SHALL BE PACKAGED SEPARATELY WITH ALL NECESSARY SCREWS, BOLTS, TAMPINGS, KEYS & INSTALLATION TEMPLATES. DELIVER PACKAGES, CLEARLY IDENTIFIED, WITH HEADING NUMBER AS APPROVED ON HARDWARE SCHEDULE.
8. INSTALL EACH HARDWARE ITEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS & RECOMMENDATIONS.
9. MAKE FINAL ADJUSTMENT & CHECK OF HARDWARE DURING THE WEEK IMMEDIATELY PRIOR TO ACCEPTANCE. CLEAN & RELUBRICATE OPERATING ITEMS AS NECESSARY, TO RESTORE PROPER FUNCTIONING & FINISH OF HARDWARE & DOORS. MAKE FINAL ADJUSTMENT OF LOCKSETS & THE CLOSURES TO COMPENSATE FOR OPERATION OF HEATING & VENTILATION SYSTEMS UNDER THE SUPERVISION OF MANUFACTURER'S REPRESENTATIVE.
10. LUBRICATE ALL MOVING PARTS WITH GRAPHITE-TYPE LUBRICANT, UNLESS OTHERWISE RECOM- MENDED BY MANUFACTURER. REPLACE ALL HARDWARE WHICH CANNOT BE LUBRICATED & ADJUSTED TO OPERATE FREELY & SMOOTHLY.
11. THE CONTRACTOR IS REQUIRED TO RE-KEY TENANT DOORS AT THE COMPLETION OF PROJECT.

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SHEET TITLE & NUMBER

SPECIFICATIONS

G2-01

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SPECIFICATIONS

DIVISION 09 - FINISHES

METAL SUPPORT SYSTEM (WALL STUDS)

- PROVIDE CHANNEL-SHAPED ROLL FORMED SHEET STEEL MEMBERS CONFORMING WITH ASTM C640, HOT DIPPED FINISH WHERE EXPOSED TO MOISTURE NOT LESS THAN 20 GAUGE. PROVIDE 16 GAUGE AT DOOR JAMBS.
- PROVIDE COLD, ROLLED STEEL CHANNELS NOT LESS THAN 16 GAUGE.
- PROVIDE ROLL HAT-SHAPED CHANNELS MINIMUM 25 GAUGE, 7/8" DEEP WITH 1/2" HEMMED EDGES. HOT DIPPED FINISH WHERE NOTED.
- PROVIDE TIE WIRES OF GALVANIZED ANNEALED WIRES NOT LESS THAN 16 GAUGE.
- PROVIDE GALVANIZED HANGERS OF STEEL WIRE IN ACCORDANCE WITH ASTM C754.
- PROVIDE JACK STUDS BETWEEN BOTTOM TRACK & WINDOW AND/OR RELIEF SILLS BETWEEN LINTELS & HEADERS IN TOP TRACKS.
- PROVIDE BLOCKING & FRAMING FOR ALL WALL MOUNTED FINISH HARDWARE & EQUIPMENT, INCLUDING DOOR STOPS.
- PROVIDE CEILING SEISMIC BRACING IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE CODES & AS INDICATED ON DRAWINGS.
- PROVIDE DOUBLE BEAD TO BUTYL SEALANT AT FLOOR TRACKS. APPLY DOUBLE BEAD TO CEILING TRACK & TO STUDS ABUTTING OTHER CONSTRUCTION.
- PROVIDE CHANNEL SHAPED BLOCKING SUPPORT OR GALVANIZED STRIP SUPPORT OF WALL-HUNG CABINETS, EQUIPMENT, FIXTURES & ACCESSORIES OF NOT LESS THAN 22 GA. MATERIAL. PROVIDE SUPPORT IN WALL OR PARTITION FRAMING SYSTEM WHEREVER WALL HUNG CABINETS & EQUIPMENT ARE INDICATED ON DRAWINGS, & WHERE REQUIRED FOR MOUNTING OF MISCELLANEOUS ITEMS REQUIRING BACKING.
- SET FLOOR TRACKS IN ACCURATE LOCATIONS & SECURELY ANCHOR IN ACCORDANCE WITH ASTM STANDARDS. ERECT STUDS ON 16" OR 24" (AS INDICATED) CENTERS & SECURE TO TRACK. INSTALL HEAD TRACK IN ACCORDANCE WITH DETAILS. INSTALL BLOCKING, BRACING & ANCHOR STRIPS; LEAVE READY TO RECEIVE FINISH MATERIALS.
- ERECT ALL COMPONENTS FOR CEILING & SOFFIT FRAMING IN ACCURATE LOCATIONS AS INDICATED, TRUE TO LINE, LEVEL & PLUMB & IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS AS REFERENCED ABOVE, USING A LASER LEVEL. ADJUST SUPPORTS, SPANS OR OTHERWISE FOR INSTALLATION WITHIN SPECIFIED TOLERANCES.
- PROVIDE KICK BRACING IN ACCORDANCE WITH INDUSTRY STANDARDS FOR WALL STUDS, CEILING MEMBERS, DRAFT OR SMOKE STOPS & CURTAIN WALLS.

GYPSUM WALL BOARD

- PROVIDE GYPSUM WALL PANELS MANUFACTURED IN ACCORDANCE WITH REQUIREMENTS OF ASTM 336.
- PROVIDE TYPE "X" FIRE RETARDANT GYPSUM WALL BOARD PANELS 5/8" THICK, TESTED & QUALIFIED FOR 1-HR. RATING, TAPERED & ROUNDED AT EDGES AS INDICATED ON DRAWINGS.
- PROVIDE METAL EDGE & CORNER BEADS AT ENDS, EDGES & CORNERS.
- WATER RESISTANT GYPSUM WALL BOARD SHALL BE 5/8" THICK, QUALIFIED FOR 1-HR. RATING, TAPERED & ROUNDED EDGES & SHALL BE INSTALLED IN ALL WET AREAS AS INDICATED ON DRAWINGS.
- PROVIDE FASTENERS IN ACCORDANCE W/ ASTM C646; UNLESS OTHERWISE NOTED OR INDICATED. PROVIDE TYPE 'S' BUGLE HEAD SCREWS FOR ATTACHMENT OF WALL BOARD TO METAL FRAMING & TYPE 'S' PAN HEAD SCREWS FOR ATTACHMENT OF FRAMING TO DOOR FRAMES.
- PROVIDE ALL INCIDENTAL & ACCESSORY MATERIALS, TOOLS, EQUIPMENT & METHODS REQ'D FOR SATISFACTORY COMPLETION OF GYPSUM WALL BOARD CONSTRUCTION INCLUDING ACCESS DOORS & PNLS.
- APPLY CONTINUOUS BEAD SEALANT AT ALL JOINTS OF WALL BOARD ABUTTING ADJACENT CONSTRUCTION, INCLUDING AROUND FRAMED OPENINGS & OTHER PROTRUSIONS THROUGH WALL BOARD WHERE SEALANT IS EXPOSED. PROVIDE POLY-SULFIDE SEALANT; WHERE UNEXPOSED. PROVIDE ACOUSTIC SEALANT.
- APPLY PRE-FILL COMPOUND TO JOINTS IN ACCORDANCE WITH INDUSTRY STANDARDS. APPLY EMBEDDING COMPOUND REINFORCING TAPE CENTERED OVER JOINT, APPLY SKIM COAT. AFTER TAPING & EMBEDDING COMPOUND IS DRY, APPLY SECOND COAT FILLING & TAPER FLUSH WITH SURFACE; FIRE TAPE PENETRATIONS AT DEMISING WALLS, CORRIDOR ENVELOPE & OTHER RATED ASSEMBLIES.
- PROVIDE FINAL FINISH THAT IS SMOOTH, WITHOUT DIVOTS, BUMPS, BOWS OR ANY OTHER SURFACE BLEMISH, READY TO RECEIVE PAINT.
- CUSTOM SKIP TROWELED FINISH WHERE SPECIFIED ON PLANS. COORDINATE FINISH WITH ARCHITECT.

CEMENTITIOUS TILE BACKER BOARD

- BACKER BOARD SHALL BE 5/8" "DUROCK", BY USG OR FGO APPROVED EQUIVALENT. INSTALL SHALL BE PER MANUF.'S WRITTEN SPEC.
- BACKER BOARD SHALL BE USED AT BASE OF WALLS THROUGHOUT REST ROOM AREAS.
- INSTALL WITH "DUROCK" FASTENERS & JOINT REINFORCEMENT TAPE.

PAINTING

- PROVIDE PAINT FINISHES FOR BUILDING & OTHER SURFACES AS SCHEDULED ON DRAWINGS OR AS SPECIFIED HEREINAFTER INCLUDING SEALING OF CONCRETE FLOOR AT CORRIDOR & STOCKROOM. NO PAINT FINISH IS REQUIRED ON ITEMS HAVING COMPLETE FACTORY FINISH, EXCEPT AS MAY BE SPECIFIED HEREINAFTER; PUTTY AND/OR SEALANT AT ALUMINUM WINDOWS; NON-FERROUS METAL UNLESS SPECIFICALLY MENTIONED IN THE PAINTING SCHEDULE; STAINLESS STEEL; INTERIOR OR EXTERIOR OF EXISTING BUILDING, EXCEPT WHERE ALTERATIONS OCCUR OR WHERE SCHEDULED. PAINT GRILLES & DIFFUSERS. NO PAINTING IS REQUIRED FOR INSULATING PIPING, EXCEPT WHERE EXPOSED IN FINISH, NON-MECHANICAL ROOM SPACES.
- PROTECT WORK OF OTHER TRADES FROM DAMAGE & DEFACEMENT CAUSED BY

THIS WORK. REPAIR ANY DAMAGE CAUSED BY THE WORK OF THIS SECTION. REMOVE ELECTRICAL OUTLET & SWITCH PLATES, MECHANICAL DIFFUSERS, GRILLES, ESCUTCHEONS, REGISTERS, SURFACE HARDWARE, FITTINGS & FASTENINGS PRIOR TO COMMENCING THE WORK. STORE, CLEAN, & REPLACE UPON COMPLETION.

- PAINT CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR IF ANY SURFACE TO BE PAINTED OR STAINED IS FOUND TO BE UNSUITABLE TO PRODUCE PROPER FINISH. APPLY NO FINISH MATERIAL UNTIL THE UNSUITABLE SURFACES HAVE BEEN MADE SATISFACTORY.
- FINISH WORK SHALL BE UNIFORM, OF APPROVED COLOR, SMOOTH & FREE FROM RUNS. MAKE ENDS OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP & CLEAN. WHERE HIGH GLOSS ENAMEL IS USED, LIGHTLY SAND UNDERCOAT TO OBTAIN A SMOOTH FINISH COAT.
- PROVIDE ALL NEWLY PAINTED SURFACES WITH (1) COAT TINTED PRIMER & (2) COATS FINAL COLOR COAT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.
- DELIVER ALL PAINT TO JOBSITE IN UNOPENED CONTAINERS BEARING THE MANUFACTURER'S LABEL, & SHOWING PAINT TYPE, SHEEN & COLOR.
- PAINT TYPES USED SHALL BE THOSE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE MATERIAL TO WHICH THEY WILL BE APPLIED. PAINTING CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PROPER APPLICATION OF THE PAINT.
- ALL SURFACES TO BE PAINTED SHALL BE THOROUGHLY CLEANED, & PREPARED FOR PAINTING PRIOR TO APPLICATION OF PAINT. PROVIDE VENTILATORS AS REQUIRED TO PREVENT BUILD-UP OF FUMES.
- SANDPAPER ALL NEW WOOD TO SMOOTH & EVEN SURFACE & DUST OFF. AFTER PRIMING COAT HAS BEEN APPLIED, THOROUGHLY FILL ALL NAIL HOLES & OTHER SURFACE IMPERFECTIONS WITH PUTTY TINTED WITH PRIMER OR STAIN TO MATCH WOOD COLOR. SAND ALL WOOD WORK BETWEEN COATS TO A SMOOTH SURFACE.
- PRIME ALL SURFACES, WHICH RECEIVE PAINT PRIOR TO APPLICATION OF FINAL FINISH, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- BACK PRIME ALL EXTERIOR & INTERIOR WOOD & TRIM PRIOR TO INSTALLATION. THOROUGHLY CLEAN SURFACES & APPLY NO FINISH UNLESS SURFACES ARE DRY & READY FOR APPLICATION. SANDPAPER SURFACES OF TRIM SMOOTH & WIPE CLEAN. AFTER STAIN COAT HAS BEEN APPLIED, FILL CRACKS & HOLES WITH PLASTIC WOOD OR PUTTY. IF STAIN HAS BEEN USED, TINT CRACK FILLER TO MATCH PRIME BACKS OF TRIM. PRIME BARE WOOD SCHEDULED TO RECEIVE PAINT FINISH; FINISH NAIL HOLES, CRACKS & OTHER IMPERFECTIONS WITH PUTTY & SAND SMOOTH.
- AT COMPLETION, TOUCH-UP & RESTORE FINISH WHERE DAMAGED & LEAVE ALL SURFACES IN GOOD & CLEAN CONDITION. PROVIDE FOR MULTIPLE SITE VISITS AS REQUIRED FOR TOUCH-UP & REFINISHING.
- OTHER PAINT MANUFACTURER'S MAY NOT BE SUBSTITUTED.
- FINISH INTERIOR SURFACES, AS SCHEDULED ON DRAWINGS, EXCEPT AS MODIFIED & SUPPLEMENTED HEREINAFTER & UPON WRITTEN OWNER APPROVAL. IN GENERAL, USE EGGSHELL SHEEN FOR WALL BOARD SURFACES; SEMI-GLOSS FOR HOLLOW METAL & WOOD TRIM; & FLAT FOR DUCTWORK.

RESILIENT BASE

- INSTALL COVE BASE IN AREAS AS CALLED FOR IN PLANS AND/OR ELEVATIONS.
- PROVIDE PREMOLDDED INSIDE & OUTSIDE CORNERS FOR ALL CONDITIONS AT WHICH CORNERS ARE TO BE USED. JOB MITERING SHALL BE PERMITTED ONLY UPON OWNER'S APPROVAL.
- USE ADHESIVES ONLY AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL TO WHICH IT IS APPLIED.
- CAREFULLY INSPECT ALL SURFACES TO RECEIVE BASE PRIOR TO INSTALLATION. REPAIR DAMAGED SURFACES PRIOR TO INSTALLATION.
- UPON COMPLETION, IMMEDIATELY REMOVE ALL SURPLUS ADHESIVE FROM ADJACENT SURFACE. IN ACCORDANCE WITH THE TIMING RECOMMENDED BY THE MANUFACTURER, USING MATERIALS RECOMMENDED FOR THAT PURPOSE BY THE MANUFACTURER.

GLASS & GLAZING

- PROVIDE TEMPERED GLASS, GRADE "B", STYLE #1, TYPE "1", QUALITY 03, THICKNESS PER PLANS.
- ALL GLASS EDGES SHALL BE GROUND SMOOTH & POLISHED.
- GENERAL GLASS SHALL BE Q3 IN ACCORDANCE WITH FEDERAL SPECIFICATIONS DD-G-451 & FGMA GLAZING MANUAL.
- STOREFRONT GLASS SHALL BE AS REQUIRED FOR THE SIZES & CONDITIONS DETAILED. FRAME SECTION SHALL BE CONCEALED WHERE INDICATED.
- PROVIDE RESILIENT NEOPRENE BLOCKS 70 TO 90 SHORE A DUROMETER HARDNESS & RESILIENT ACCESSORIES DESIGNED FOR POSITIONING GLASS IN RABBETS.
- PROVIDE CLIPS OF NON-CORROSIVE METAL WITH ROUNDED EDGES DESIGNED FOR CONTACT BLOCKS, NOT GLASS.
- PROVIDE STANDARD PREFORMED GLAZING TAPE, STANLOCKE 400, TRIMCO 440, OR APPROVED.
- PROVIDE NON-SHRINKING ELASTOMERIC TAPE WHERE REQUIRED.
- USE SILICONE SEALANT DOW #795 OR GE SILPRUF, COLOR AS SPECIFIED, OR APPROVED EQUAL.
- ALL EDGES, DRILLED HOLES & NOTCHES SHALL BE FACTORY CUT AND/OR FACTORY FORMED. TOUCH-UP "RAW" EDGES TO MATCH FRAME.
- INSTALL IN ACCORDANCE WITH FGMA RECOMMENDATIONS UNLESS NOTED OTHERWISE.
- VERIFY THAT FRAMES TO RECEIVE GLAZING ARE SQUARE & TRUE, THAT PERIMETER CLEARANCES ARE SUFFICIENT TO PREVENT "POINT LOADING", & THAT SURFACES ARE CLEAN, DRY & READY TO RECEIVE GLAZING MATERIALS. REMOVE ALL PROTECTIVE COATINGS FROM FRAMING SURFACES.
- CENTER GLASS IN RABBETS & POSITION SO AS TO MAINTAIN CLEARANCES ON ALL SIDES, INDOORS & OUT, IN ACCORDANCE WITH FGMA RECOMMENDATIONS. SHIM AS REQUIRED TO POSITION AGAINST FIXED STOPS & FRAME BARS.

- SET ALL EXTRUSIONS IN CORRECT LOCATIONS AS SHOWN IN THE DETAILS. THEY SHALL BE LEVEL, FLUSH, SQUARE, PLUMB & IN ALIGNMENT WITH OTHER WORK.
- UPON COMPLETION, REMOVE ALL EXCESS SEALANT & MATERIALS FROM SURFACES; WASH & CLEAN ALL GLASS FRAMING MEMBERS.

CEILING METAL SUSPENDED SYSTEM

QUALITY ASSURANCE

- USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED & EXPERIENCED IN THE NECESSARY CRAFTS & WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS & THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.

METAL CHANNELS, RUNNERS & ACCESSORIES

- FURRING CHANNELS: SHALL BE MINIMUM 25 GAUGE X 7/8" DEEP X 2-5/8" HAT SHAPED GALVANIZED STEEL CHANNELS.
- MAIN RUNNER CHANNELS: SHALL BE 1-1/2" COLD ROLLED, 16 GAUGE STEEL CHANNELS, COATED WITH A RUST INHIBITIVE PAINT.
- HANGER WIRES: SHALL BE OF SIZE/GAUGE INDICATED, DOUBLE ANNEALED & GALVANIZED, CONFORMING TO TYPE 1, FS QQ-W-461.
- SCREWS: (FOR GYPSUM WALLBOARD APPLICATION) - SHALL BE TYPE S, 1-1/4", 1-5/8" 1-7/8" OR LENGTH AS REQUIRED FOR PENETRATION OF GYPSUM BOARD & CONNECTION TO SUPPORT CHANNELS, & AS RECOMMENDED BY MANUFACTURER.

SURFACE CONDITIONS

- EXAMINE THE AREAS & CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECTION CONDITIONS DETRIMENTAL TO TIMELY & PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

INSTALLATION

- PROVIDE 1-1/2" MAIN RUNNER CHANNELS SPACED ON 4 FOOT CENTERS & METAL FURRING CHANNELS SPACED ON NOT OVER 16" CENTERS. NEITHER MAIN RUNNERS NOR CROSS FURRING SHALL BE LET INTO NOR COME IN CONTACT WITH ABUTTING MASSONRY WALLS OR PARTITIONS. LOCATE A MAIN RUNNER WITHIN 6" OF THE WALL TO SUPPORT THE ENDS OF THE FURRING CHANNELS, & LOCATE HANGERS TO SUPPORT THE ENDS OF THE MAIN RUNNERS.
- ALLOW 1" CLEARANCE BETWEEN END OF FURRING CHANNELS & ABUTTING WALLS. WHERE MAIN RUNNERS OR FURRING CHANNELS ARE SPLICED, OVERLAP THE ENDS NOT LESS THAN 8" & SECURELY TIE NEAR EACH END OF THE SPLICE WITH TWO (2) LOOPS OF 16 GAUGE GALVANIZED WIRE.
- SUSPEND MAIN RUNNERS FROM STRUCTURE ABOVE WITH ONE (1) NO. 8 GAUGE HANGER WIRE AT 48" O.C. ALONG CARRYING CHANNEL & WITHIN 6" OF EACH END. ALL WIRE HANGERS SHALL BE OF SUCH LENGTH SO THAT THE LOWER ENDS MAY BE SADDLETTED OR WRAPPED AROUND THE MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISTING OF THE RUNNERS
- SECURELY CLIP METAL FURRING CHANNELS AT RIGHT ANGLES TO MAIN RUNNERS, USING FURRING CHANNEL CLIPS OR SADDLETTIE WITH 2 STRANDS OF 16 GAUGE TIRE WIRE. INSTALL FURRING CHANNEL CLIPS ON ALTERNATE SIDES OF THE MAIN CHANNEL RUNNER.
- AT LIGHTS OR OTHER OPENINGS THAT INTERRUPT THE MAIN RUNNER OR FURRING CHANNELS, REINFORCE GRILLAGE WITH 3/4" COLD-ROLLED CHANNELS, WIRE TIED ATOP & PARALLEL TO THE MAIN RUNNER CHANNELS. PROVIDE NECESSARY REINFORCING TO MAINTAIN INTEGRITY OF CEILING & TO SUPPORT FIXTURES.
- APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO THE FURRING CHANNELS, WITH ALL ABUTTING ENDS & EDGES OCCURRING OVER THE WEB SURFACE OF THE FURRING CHANNEL. USE WALLBOARD OF MAXIMUM POSSIBLE LENGTH TO MINIMIZE END JOINTS. NEATLY FIT & STAGGER END JOINTS. INSTALL WALLBOARD WITH 1-5/8" SCREWS SPACED 8" ON CENTER IN THE FIELD OF THE BOARD, AT ALL BEARINGS, & LONG ABUTTING EDGES.

KEEP AREA CLOSED UNTIL TILE IS FIRMLY SET. PROTECT FLOORING FROM DAMAGE. REPLACE DAMAGED TILE AT NO ADDITIONAL COST TO OWNER.

- INSTALL TILE TO ALUMINUM GLAZING CHANNEL & METAL BASE WITH DOW CORNING 795 SILICONE BUILDING SEALANT, BEADS AT 6" ON CENTER MAXIMUM.
- GROUT FLUSH WITH TILE EDGES. BUFF TILES WITH CHEESE CLOTH AFTER FINAL SPONGING.
- DAMP CURE PER MORTAR & GROUT MANUFACTURER'S RECOMMENDATIONS.
- SEAL ALL GROUT JOINTS PER MANUFACTURER'S WRITTEN INSTRUCTIONS WITH SEALER AS RECOMMENDED.
- REFER TO "FLOOR PREP / SETTING MATERIALS" SPECIFICATIONS FOR SPECIFIC SUB-FLOOR LEVELING MATERIALS, PRIMERS, WATERPROOFING MEMBRANE & SETTING MATERIALS. REFER TO TILE GROUT SPECIFICATIONS FOR SPECIFIC GROUT MANUFACTURER.

WATER PROOFING

- WATERPROOF MEMBRANE SHALL BE INSTALLED AT WALLS AND THROUGHOUT AREAS NOTED ON THE FINISH PLAN. WATER PROOF MEMBRANE SHALL BE INSTALLED AT WALLS AND FLOORS THROUGHOUT RESTROOM AREAS.
- WATERPROOF MEMBRANE SHALL BE "MAPELASTIC T" TROWEL APPLIED, POLYMER MODIFIED, FLEXIBLE CEMENTITIOUS FIBER WATERPROOF MEMBRANE BY "MAPEI". EXTEND MEMBRANE 12" UP WALL, & 48" OUT ACROSS FLOOR, AS DETAILED IN PLANS. INSTALL OVER CEMENT BACKER BOARD & CONCRETE FLOOR.

DIVISION 10 - SPECIALTIES

- TENANT'S G.C. SHALL PROVIDE ADEQUATE BACKING FOR SECURE INSTALLATION OF ACCESSORIES.
- ALL ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH ALL GOVERNING NATIONAL, STATE & LOCAL CODES PERTAINING TO HANDICAP ACCESSIBILITY.

ACCESSORIES

- REFER TO SHEET A.1.1 FOR RESTROOM ACCESSORY SPECIFICATIONS, & PLUMBING DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

INSTALLATION

- DELIVER INSERTS & ROUGH-IN FRAMES TO JOBSITE AT APPROPRIATE TIME FOR INSTALLATION.
- FASTENINGS: FURNISH TOILET ACCESSORIES TO COMPLETE WITH ALL REQUIRED MOUNTING DEVICES, FASTENINGS & ACCESSORIES AS REQUIRED FOR A FINISHED INSTALLATION, PROPERLY PACKAGED & TAGGED FOR READY IDENTIFICATION. FASTEN ALL ITEMS WITH SCREWS OR BOLTS EXTENDING AT LEAST 1" INTO SOLID BACKING IF NO OTHER FASTENING IS SPECIFIED.
- INSTALLATION OF TOILET ACCESSORIES SHALL BE IN ACCORDANCE WITH THE DRAWINGS, REVIEWED SHOP DRAWINGS & THE MANUFACTURER'S INSTALLATIONS & RECOMMENDATIONS.
- TENANT'S G.C. SHALL SUPPLY & INSTALL ADEQUATE BACKING FOR SECURE INSTALLATION OF ALL ACCESSORIES.

MOUNTING

- LOCATIONS & HEIGHTS SHALL BE AS SHOWN ON DRAWINGS & IN CONFORMANCE WITH "HANDICAP" ORDINANCES.

SIGNS

- SIGNS ARE SUPPLIED & INSTALLED BY OWNER'S SIGN CONTRACTOR. G.C. SHALL PROVIDE POWER SOURCE & REQUIRED DISCONNECTS, TIME CLOCKS ETC. COORDINATE WITH SIGN CONTRACTOR AS REQUIRED.

FIRE EXTINGUISHERS (PROVIDED BY G.C.)

- EXTINGUISHERS SHALL BE 10-POUND CAPACITY, U.L. LABELS, ENAMEL, STEEL CONTAINER WITH PRESSURE INDICATING GAUGE FOR CLASS A, B, OR C FIRES.
- INSTALL ON WALL MOUNTED HOOKS AS INDICATED OR DIRECTED BY THE MARSHALL, NEATLY FITTING TO FINISH SURFACES. PLACE FULLY CHARGED EXTINGUISHERS ON HOOKS PRIOR TO OCCUPANCY.
- SEE FIXTURE PLAN FOR ARCHITECTS SUGGESTED LOCATIONS.

AUDIO/VIDEO

- ALL AUDIO & VIDEO CABLES SHALL BE RUN IN CONDUIT (UNLESS OTHERWISE NOTED).
- LEAVE ADEQUATE AMOUNT OF SLACK IN AUDIO & VIDEO CABLES FOR PROPER POSITIONING OF EQUIPMENT AFTER INSTALLATION.
- EXCESS LENGTHS OF CABLE SHALL BE CONCEALED IN BRACKETS OR CEILING.

DIVISION 11 - EQUIPMENT

REFER TO FOOD SERVICE DRAWINGS FOR SPECIFICATIONS.

DIVISION 12 - FURNISHINGS

REFER TO FIXTURE PLAN FOR SPECIFICATIONS.

DIVISION 13 - NOT USED

DIVISION 14 - NOT USED

DIVISION 15 - MECHANICAL

REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.

DIVISION 16 - PLUMBING

REFER TO PLUMBING DRAWINGS FOR SPECIFICATIONS.

DIVISION 17 - ELECTRICAL

REFER TO ELECTRICAL DRAWINGS FOR SPECIFICATIONS.

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PERMIT / BID	Project Number: 22-087	Approved By: XX	Date: 05/12/2022
	Drawn By:		06/09/2022
	No. Issue	95% REVIEW	ISSUED FOR PERMIT & BID

SHEET TITLE & NUMBER

SPECIFICATIONS

G2-02

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PLOT DATE: 6/12/2022 1:24 PM PLOTTED BY: SARAH ANNA

DEMOLITION NOTES

- DEMOLISH EXISTING CONSTRUCTION AS INDICATED ON THE DRAWINGS AND REQUIRED BY JOB CONDITIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD PREVENT REMOVAL OF ANY ELEMENTS INDICATED.
- PROTECT EXISTING CONSTRUCTION AND EQUIPMENT DESIGNATED TO REMAIN.
- CONTRACTOR SHALL ENDEAVOR TO IDENTIFY ANY HAZARDOUS MATERIALS WITHIN THE SPACE, INCLUDING BUT NOT LIMITED TO ASBESTOS BEARING MATERIALS, AND WHERE REQUIRED BY LAW, PROVIDE REQUIRED TESTING. WHERE HAZARDOUS MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARRANGE FOR PROPER REMEDIATION.
- UNLESS INDICATED OTHERWISE BY OWNER OR THESE DRAWINGS, ALL REMOVED MATERIAL AND ALL DEBRIS BECOMES THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE DEMOLISHED ITEMS FROM THE SITE AND DISPOSE OF THEM IN A LEGAL MANNER.
- THE CONTRACTOR SHALL ADHERE TO ANSI A10.6 SAFETY REQUIREMENTS FOR DEMOLITION PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ALL TEMPORARY SHORING SYSTEMS USED DURING THE REMOVAL OF ALL STRUCTURAL ELEMENTS, EXCEPT, AS OTHERWISE AGREED BY THE BUILDING DEPT. AND THE ARCHITECT.
- IF THE SAFETY OF EXISTING CONSTRUCTION APPEARS TO BE ENDANGERED AT ANY TIME, CEASE OPERATIONS AND IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT. THE CONTRACTOR SHALL DEVISE A PLAN TO MAKE SAFE THE JOB SITE, TAKING PRECAUTIONS TO PROTECT LIFE SAFETY FIRST AND FOREMOST. WORK SHALL NOT RESUME UNTIL DANGEROUS CONDITIONS HAVE BEEN REMEDIATED TO THE ARCHITECT'S SATISFACTION.
- THE DRAWING DO NOT NECESSARILY INDICATE THE FULL EXTENT OF THE WORK REQUIRED TO BE PERFORMED. INSPECT THE EXISTING CONSTRUCTION CAREFULLY TO DETERMINE THE FULL EXTENT OF WORK TO BE PERFORMED AND THE PROBLEMS INVOLVED. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO ESTIMATE THE FULL EXTENT OF THE WORK OR FOR ANY CONTINGENCIES IN CONNECTION THEREWITH.
- ALL WORK SHALL BE PERFORMED BY SKILLED AND PROPERLY EQUIPPED PERSONNEL, AND LICENSED WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- DEMOLITION OR REMOVAL OF ITEMS WHEN A SCAFFOLD, LADDER, OR OTHER VERTICAL ACCESS IS REQUIRED SHALL BE LOWERED BY CONTROLLED METHODS, NOT BY THROWING OR DROPPING.
- PERFORM ANY CUTTING AND STRIPPING SO THAT THE WORK TO REMAIN IS UNDAMAGED AND IN SUCH MANNER THAT NEW WORK CAN BE PROPERLY CONNECTED WITH EXISTING WORK TO REMAIN.
- DEMOLISH EXISTING CONSTRUCTION ONLY TO THE EXTENT NECESSARY FOR THE PROPER INSTALLATION OF NEW CONSTRUCTION AND JUNCTION WITH EXISTING WORK. CUT BACK FINISHED SURFACES TO STRAIGHT, PLUMB AND LEVEL AS REQUIRED.
- SAWING SHALL BE PERFORMED BY EXPERIENCED CRAFTSMEN CUSTOMARILY ENGAGE IN AND PROPERLY EQUIPPED FOR THE PERFORMANCE OF THE TYPE OF WORK REQUIRED BY JOB CONDITIONS. PROVIDE WET VACUUM EQUIPMENT FOR CONTROL OF WASTE COOLING LIQUID AND DUST PROTECTION AS REQUIRED.
- WHEN REQUIRED FOR NEW WORK, INCIDENTAL DEMOLITION OF EXISTING ELEMENTS MAY BE REQUIRED FOR INSTALLATION OF PIPING, CONDUIT, TUBING, DUCTWORK, OR OTHER CONVEYANCE ELEMENTS AS REQUIRED BY MECHANICAL, PLUMBING AND ELECTRICAL SCOPE. THE DRAWINGS MAY NOT INDICATE ANY SUCH INCIDENTAL DEMOLITION, HOWEVER IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND PERFORM SUCH.
- DRILLING AND INSTALLING SLEEVES FOR PASSAGE OF PIPING, CONDUIT AND TUBING SHALL BE PERFORMED BY THE TRADE INSTALLING THE PIPING, CONDUIT, OR TUBING.
- REPAIR, RESTORE, REPLACE, OR MAKE GOOD ANY DAMAGE TO EXISTING CONSTRUCTION WHICH OCCURS AS A RESULT OF DEMOLITION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER. THESE REPAIRS SHALL INCLUDE ANY ROOF PATCHING REQUIRED DUE TO DEMOLITION AND SHALL BE COORDINATED WITH THE LANDLORD AND LANDLORD'S ROOFER.
- DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. NO ON-SITE SALE, BURNING, OR BURYING OF DEMOLISHED MATERIALS WILL BE PERMITTED.

DEBRIS SHALL NOT BE STORED OR STAGED NEAR ANY BACKFILL MATERIAL TO PREVENT CONTAMINATION OF BACKFILL WITH UNSUITABLE FILL.

- LEAVE ALL SPACES BROOM CLEAN WITH ALL LEDGES AND CORNERS PROPERLY CLEANED AT THE END OF EACH WORK DAY.
- PROVIDE PROTECTION TO PREVENT GLASS BREAKAGE AS MAY BE REQUIRED. REPLACE IN KIND ANY GLASS BROKEN BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST.
- PROVIDE HOIST AND CHUTES AS REQUIRED TO CONVEY REMOVED MATERIAL. THROWING, DROPPING, OR PERMITTING THE FREE FALL OF MATERIAL AND DEBRIS FROM HEIGHTS WHICH WOULD CAUSE DAMAGE TO WORK, CAUSE EXCESSIVE NOISE OR NUISANCE, CREATE UNSAFE CONDITIONS, OR CAUSE EXCESSIVE DUST IS EXPRESSLY PROHIBITED.
- WHERE REQUIRED, ERECT SIGNS, BARRICADES, AND SUCH OTHER FORMS OF WARNING TO PREVENT PERSONNEL FROM BEING PUT AT RISK OF INJURY.
- DOORS AND HARDWARE: REMOVE CAREFULLY TO AVOID DAMAGE. INsofar AS POSSIBLE, LEAVE HARDWARE ATTACHED TO THE DOOR. WHERE THIS IS NOT PRACTICAL, PLACE ITEMS OF HARDWARE IN A CLOTH BAG ATTACHED TO THE DOOR. PARTITION: REMOVE PARTITION FINISH, STUDS, PLATES, AND SILLS. WHERE ONLY A PARTIAL RUN IS

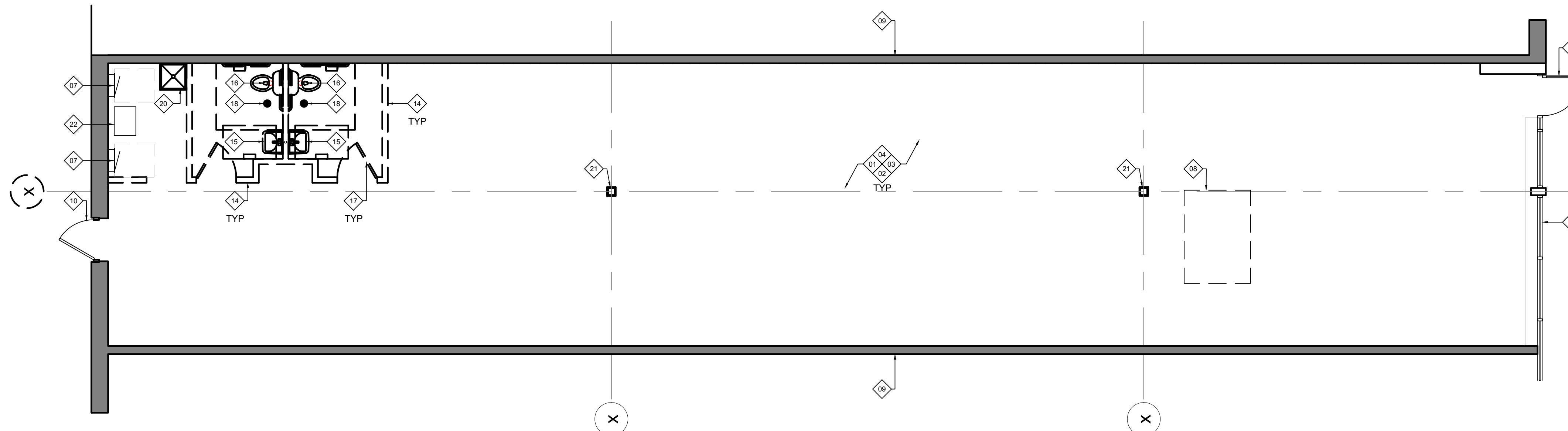
- REMOVED, CUT BACK FINISH MATERIAL TO THE CENTERLINE OF THE NEXT ADJACENT SUPPORT MEMBER TO REMAIN. LEAVE REMAINING MATERIAL WITH A CLEAN TERMINAL LINE WITH NO LOOSE MATERIAL ADHERING.
- MECHANICAL, ELECTRICAL, PLUMBING: CAREFULLY REVIEW PLANS AND DETERMINE LINES TO BE REMOVED AND THOSE TO BE KEPT ACTIVE OR TO BE REACTIVATED. PROTECT LINES TO REMAIN. PROVIDE FOR MINIMUM SERVICES. INTERRUPTION OF LINES TO REMAIN.
- REMOVE FIXTURES AND EQUIPMENT AS INDICATED. WHEN INDICATED FOR REUSE: CLEAN, STORE AS DIRECTED, PROTECT, AND CLEARLY LABEL FOR REUSE.
- REMOVE EXISTING FLOOR FINISHES AND PREPARE SUB-SURFACE TO RECEIVE NEW FLOOR AS INDICATED. WORK SHALL BE DEEMED ACCEPTABLE PROVIDED THAT THE SUBSTRATE WILL ACCEPT THE NEW FINISH WITH NO NOTICEABLE ALTERATION HAVING BEEN MADE. PROVIDE LEVELING AGENT OR GAP FILL IF REQUIRED.
- WHERE CONCRETE TOPPING OR OTHER LEVELING AGENTS ARE REQUIRED FOR A PROPER INSTALLATION OF A FINISH, THE SUBSTRATE SHALL BE CLEANED AND PREPARED AS ALLOW PROPER ADHESION OF THE LEVELING AGENTS.
- CONTRACTOR SHALL PROTECT LOW VOLTAGE WIRING TO REMAIN AND CLEARLY LABEL WIRING CONNECTIONS AT EACH END TO ALLOW FOR REUSE IN NEW LAYOUT SUCH THAT OTHERS MAY QUICKLY IDENTIFY WIRING RUNS FOR RECONNECTION.
- NOTIFY ARCHITECT IMMEDIATELY IF ANY COLUMNS, OTHER STRUCTURAL ELEMENTS, OR UTILITY RISERS ARE DISCOVERED THAT WILL INTERFERE WITH THE CONSTRUCTION PLAN AND ARE NOT ALREADY IDENTIFIED ON PLANS.

KEYNOTES

- REMOVE ANY EXISTING FLOOR FINISH (SEE DEMO NOTE 26), CEILING, SOFFITS, MECH, ELEC & PLBG EQUIPMENT INCLUDING BUT NOT LIMITED TO CONDUIT/WIRING, DUCTWORK, PIPING, FIXTURES, ETC. UNO.
- VERIFY EXISTING SPACE DIMENSIONS AFTER DEMOLITION & VERIFY LOCATION OF ALL UTILITIES TO/THRU THE SPACE IN FIELD. NOTIFY ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES WITH PLAN. SEE SHEET A1-31 FOR DIMENSIONS.
- NOTIFY ARCHITECT IMMEDIATELY IF ANY COLUMNS OR STRUCTURAL MEMBERS ARE FOUND IN FIELD THAT WILL INTERFERE WITH THE CONSTRUCTION PLAN & ARE NOT ALREADY NOTED ON PLANS.
- REMOVE ALL INTERIOR PARTITIONS & ASSOCIATED CONSTRUCTION AS INDICATED
- VERIFY SLAB IS LEVEL AND READY TO ACCEPT FINISH FLOOR. FIX/REPAIR CONCRETE SLAB AS REQUIRED.
- REMOVE EXISTING FLOOR DRAINS, FLOOR SINKS, CLEANOUTS ETC. CAP OFF BELOW FLOOR. FILL OPENING IN CONCRETE SLAB & ENSURE SMOOTH FINISH
- EXISTING STOREFRONT DOORS TO REMAIN. PROTECT DURING CONSTRUCTION
- EXISTING EXTERIOR TO REMAIN. PREP TO ACCEPT NEW PAINT FINISH. SEE EXTERIOR ELEVATIONS FOR THE EXTENT OF WORK FOR ADDITIONAL INFORMATION.
- EXISTING ELECTRICAL PANEL TO REMAIN. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- EXISTING RTU ABOVE. GC TO CONFIRM PROPER WORKING CONDITION AT THE BEGINNING OF THE PROJECT. NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES. SEE MECH. DWGS FOR ADDITIONAL INFORMATION.
- EXISTING DEMISING WALL TO REMAIN, MAINTAIN EXISTING FIRE RATING
- EXISTING DOOR TO REMAIN. PROTECT DURING CONSTRUCTION.
- NOT USED
- NOT USED
- NOT USED
- REMOVE EXISTING WALLS TO EXTENT SHOWN.
- REMOVE EXISTING SINK AND CABINETRY.
- REMOVE EXISTING TOILET.
- REMOVE EXISTING TOILET DOOR.
- EXISTING FD TO REMAIN BE REMOVED.
- NOT USED
- REMOVE EXISTING MOP SINK.
- EXISTING STRUCTURAL COLUMNS TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING ELECTRICAL TRANSFORMER TO REMAIN. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

LEGEND

- EXISTING TO REMAIN
- NON-BEARING PARTITIONS, FIXTURES, SOFFITS, EQUIPMENT & DOORS TO BE REMOVED.
- EXISTING AREA N.I.C.
- EXISTING FIRE RATED PARTITION WALL



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Project Number: 22-067	Approved By: XX	Date: 05/12/2022
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SHEET TITLE & NUMBER

DEMO/EXISTING PLAN

D1-11

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01 EXISTING CONDITION / DEMO PLAN
 1/4"=1'-0"

KEYNOTES

- 01 NOT USED
- 02 WALL CLEANOUT, SEE PLBG DWGS FOR MORE INFO. FINISH TO MATCH ADJACENT SURFACE.
- 03 PENETRATION FOR NEW FLOOR MOUNTED TOILET, SEE PLBG DWGS. FOR MORE INFO
- 04 NEW WALL HUNG LAV. . SEE PLBG. DWGS.
- 05 PENETRATION FOR NEW MOP BASIN, SEE PLBG DRAWINGS FOR MORE INFO.
- 06 NEW DF W/BOTTLE FILLER, SEE PLBG. DWGS FOR MORE INFO.
- 07 NEW FLOOR DRAIN GC TO SLOPE FLOOR TO DRAIN AS REQUIRED. SEE PLBG DWGS FOR MORE INFO.
- 08 FLOOR MOUNTED ELECTRICAL BOX 4', DATA FOR MILLWORK DESK, CO-ORD. - LOCATION W/MILLWORK SHOP DWGS.
- 09 FLOOR MOUNTED ELECTRICAL BOXES. SEE ELEC DWGS FOR MORE INFO.

DIMENSION NOTES

1. DIMENSIONS ARE TO INTERIOR FACE OF EXISTING DEMISING WALLS AND CENTERLINES OF EXISTING COLUMNS, SEE PLAN.
2. ALL INTERIOR DIMENSIONS ORIGINATE FROM ESTABLISHED DATUM LINES. ESTABLISH DATUM LINES PRIOR TO LOCATING WALLS, DRAINS, FIXTURES, ETC.

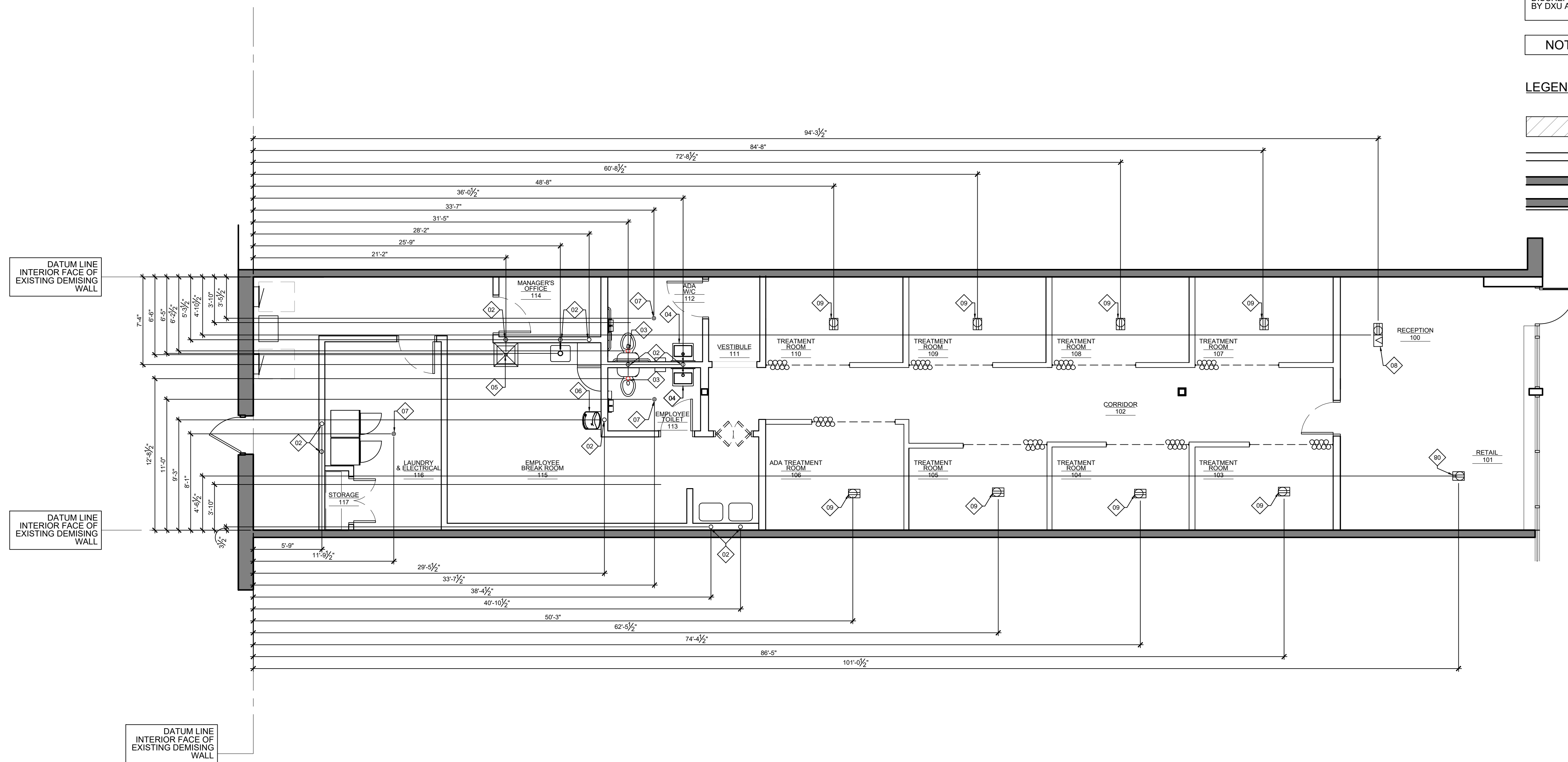
CONCEPTUAL ONLY

PLUMBING CENTERLINES SHOWN ARE DIAGRAMMATIC - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. GC TO COORDINATE TRENCHING IN FIELD. SCAN AND SUBMIT ANY DIMENSIONAL DISCREPANCIES OR ADJUSTMENTS TO BE REVIEWED BY DXU ARCHITECTS PRIOR TO WORK.

NOTE - GPR SURVEY REQUIRED

LEGEND

- EXISTING AREA N.I.C.
- NEW PARTITION
- EXISTING WALL
- EXISTING WALL WITH NEW FURRING



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SHEET TITLE & NUMBER

PENETRATION PLAN

A1-11

01 PENETRATION PLAN

1/4" = 1'-0"

GENERAL NOTES

- THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH MECHANICAL, ELECTRICAL, PLUMBING, & OTHER CONSULTANT'S DRAWINGS & SPECIFICATIONS & WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT & ARIA GROUP ARCHITECTS, INC. BEFORE PROCEEDING WITH ANY WORK.
- ALL DIMENSIONS ARE NOMINAL AND ARE FROM FACE OF SUBSTRATE U.N.O.
- ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF ANY DISCREPANCIES (TYPICAL).
- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES AND ORDINANCES.
- G.C. TO INSTALL MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOMS, AND LAUNDRY AREAS.
- G.C. TO FURNISH & INSTALL IN-WALL FIRE TREATED BLOCKING FOR ALL MILLWORK, SHELVING AND FURNITURE.
- FIRE EXTINGUISHER, SUPPLIED BY G.C. QUANTITY & LOCATIONS TO BE COORDINATED WITH THE FIRE DEPARTMENT.
- COORDINATE OUTLETS (PHONE, DATA, ETC) AT MILLWORK WITH MILLWORKER AND ELECTRICAL DRAWINGS. PROVIDE SHOP DRAWINGS FOR REVIEW.
- MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS TO CONFORM TO ALL GOVERNING CODES AND ADA REQUIREMENTS.

- REVIEW ALL WORK HOURS, PROJECT PHASING REQUIREMENTS AND/OR SEQUENCING WITH OWNER.
- ALL WOOD THAT IS USED ON THE PROJECT SHALL CONFORM W/ SECTIONS 805 & 806 OF THE APPLICABLE INTERNATIONAL BUILDING CODE W/ RELATION TO FIRE TREATED WOOD CONSTRUCTION. PER THIS SECTION IT INCLUDES: INTERIOR FINISHES, TRIM AND MILLWORK SUCH AS DOORS, DOOR FRAMES, WINDOW SASHES AND WINDOW FRAMES.
- THE GENERAL CONTRACTOR SHALL PROVIDE BLOCKS, OPENINGS, CORES, ETC. NOT SPECIFICALLY SHOWN ON THE DRAWINGS AS NECESSARY FOR PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, AND TYPICAL DETAILS. ALL CORES AND PENETRATIONS SHOULD BE INSPECTED PER LANDLORD REQUIREMENTS. GROUND PENETRATING RADAR IS ACCEPTABLE.
- REFER TO THE PROJECT SPECIFICATIONS ON THE G-SHEETS FOR FURTHER INFORMATION.

LEGEND

- NEW PARTITION
- EXISTING WALL
- N.I.C.

FURNITURE SCHEDULE

TAG	DESCRIPTION	QTY.	DIMENSIONS	NOTES	RESPONSIBILITY
F-1	TREATMENT ROOM CLIENT CHAIR	8	OVERALL: 33"W X 34"D X 30"H SEAT HEIGHT: 17"SH	CLIENT CHAIRS IN TREATMENT ROOMS	BY TENANT

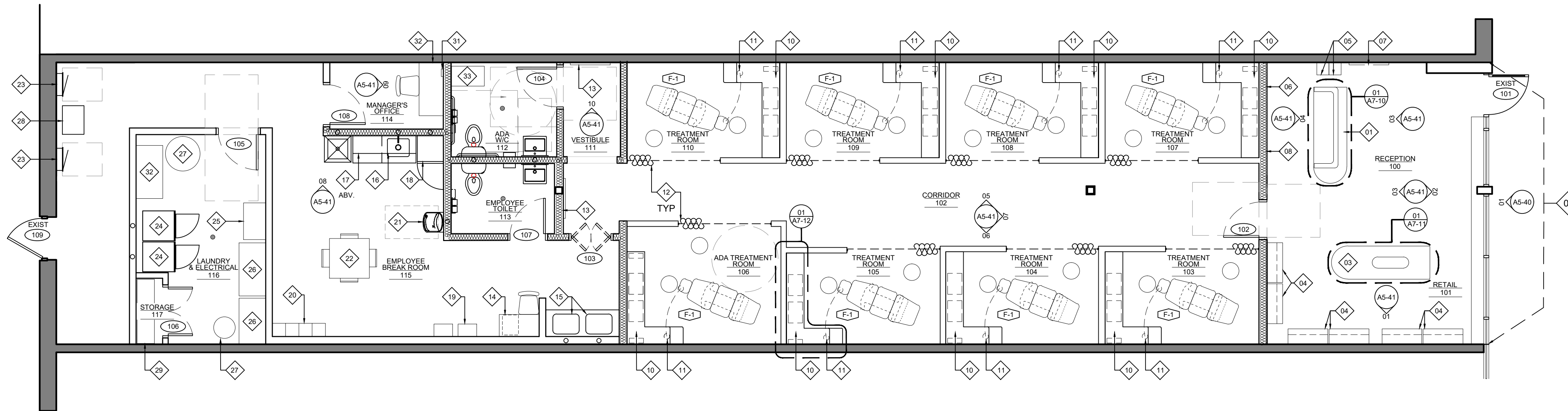
GENERAL NOTES

- ANY ITEMS THAT NEED CLARIFICATION SHALL BE SUBMITTED IN WRITING TO THE DESIGNER.
- MINOR OMISSIONS OR DISCREPANCIES WILL NOT BE THE RESPONSIBILITY OF THE DESIGNER.
- VERIFY NEW WALL CONSTRUCTION WITH BUILDING MANAGEMENT.
- VERIFY PERIODS OF CONSTRUCTION WITH BUILDING MANAGEMENT.
- ALL MILLWORK TO BE DETAILED BY MILLWORK CONTRACTOR. PLEASE REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS.
- VERIFY ALL EQUIPMENT NEEDS WITH TENANT.
- PREPARE EXISTING FLOORS/WALLS AS REQUIRED FOR NEW FINISHES, TYP.
- WINDOW COVERINGS THROUGHOUT ARE N.I.C.
- SEE A7-10 FOR TYPICAL DETAIL AT TREATMENT ROOM OUTLETS.
- PROVIDE OPENINGS IN PARTITIONS AS REQUIRED FOR RECESSED TOILET ROOM ACCESSORIES. SEE ELEVATIONS AND PLUMBING ACCESSORY SCHEDULE.
- NEW PARTITIONS SHALL NOT PENETRATE EXISTING PARTITIONS. TYPICAL.
- CAULK AN SEAL ALL PENETRATIONS AT EXISTING PARTITIONS. TYPICAL.
- PAINT ALL EXPOSED PIPES. PAINT COLOR SHOULD MATCH THAT OF ADJACENT WALL.
- VERIFY WALL DIMENSION REQUIRED AT ALL STUDIO WALLS AND CONFIRM STUDIO HOLD DIMENSIONS BEFORE START OF CONSTRUCTION.
- GC TO INSTALL FURRING ON ALL WALL SURFACES BELOW AND ABOVE WINDOW SILLS AS REQUIRED GC TO PROVIDE ALL BACKING/BRACING REQUIRED BY CODE AND STRUCTURAL NECESSITY.
- PROVIDE WATERPROOFING MEMBRANE WITH COVED RETURN UP WALLS AT LAUNDRY ROOM FLOORS. MEMBRANE TO EXTEND FULL HEIGHT IN WALLS AROUND MOP SINK, AND 12" MIN. IN LAUNDRY ROOM.

ALL MILLWORK TO BE PROVIDED BY OWNER & INSTALLED BY GC. GC TO COORDINATE BLOCKING

KEYNOTES

- 01 RECEPTION DESK. SEE DETAILS ON A7-10 SHEET FOR MORE INFO.
- 02 NOT USED.
- 03 ISLAND RETAIL DISPLAY. SEE DETAILS ON A7-11 SHEET FOR MORE INFO.
- 04 RETAIL SHELVES. SEE DETAILS ON A7-13 SHEET FOR MORE INFO.
- 05 TERRACYCLE RECYCLING BINS.
- 06 DIGITAL DISPLAY PROVIDE F.T. BLOCKING FOR MOUNTING, PROVIDE POWER & DATA IN WALL. SEE ELEC DWGS.
- 07 ONLINE PICK UP. ON 3/4" BRAND PAINTED PLYWOOD SHAPE. PROVIDE F.T. BLOCKING FOR MOUNTING. AS REQ'D
- 08 HEYDAY BRAND INTERIOR SIGNAGE. PROVIDE F.T. BLOCKING FOR MOUNTING. AS REQ'D
- 09 HEYDAY BRAND EXTERIOR SIGNAGE. SIGN TO BE BACKLIT PROVIDE POWER. SEE EXT. ELEVATIONS
- 10 BACKBAR MOUNTING TYP. IN TREATMENT ROOMS. SEE DETAILS ON A7-13 SHEET FOR MORE INFO.
- 11 MAG LAMP MAX. 45" EXTENSION
- 12 DRAPERY FOR TREATMENT ROOMS
- 13 MIRROR PROVIDED BY G.C. PROVIDE F.T. BLOCKING FOR MOUNTING.
- 14 36" COUNTER
- 15 ST. SINK. SEE PLBG DWGS PLANS FOR MORE INFO.
- 16 BREAKROOM MILLWORK
- 17 WHITE LAMINATE BASE CABINETS WITH WHITE LAMINATE COUNTERTOP AND WHITE LAMINATE WALL CABINETS ABOVE
- 18 EMPLOYEE FRIDGE
- 19 EMPLOYEE STORAGE
- 20 EMPLOYEE LOCKERS. GC TO PROVIDE IN-WALL BLOCKING AS REQ'D
- 21 DRINKING FOUNTAIN
- 22 EMPLOYEE TABLE
- 23 ELECTRIC PANELS. MAINTAIN 36" CLEAR SPACE IN FRONT OF PANEL. SEE ELECTRICAL DWGS PLANS FOR MORE INFO.
- 24 STACKED WASHER & DRYER
- 25 ROLLING LAUNDRY CART
- 26 METAL CABINETS
- 27 ROLLING LAUNDRY BINS
- 28 ELECTRICAL TRANSFORMER. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
- 29 CLOSET SHELVING.
- 30 NOT USED
- 31 THERMOSTAT IN OFFICE. TEMP SENSORS IN REST OF UNIT. SEE MECH. PLANS FOR MORE INFO.
- 32 48" MILLWORK COUNTER AND SHELVES ABOVE
- 33 TOILET ROOM CABINET



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PERMIT / BID

Project Number: 22-087	Approved By: XX	Date: 05/12/2022
Drawn By:		06/09/2022
No. Issue	95% REVIEW	ISSUED FOR PERMIT & BID


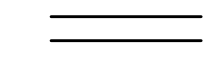


SHEET TITLE & NUMBER

FLOOR PLAN

A1-21

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LEGEND

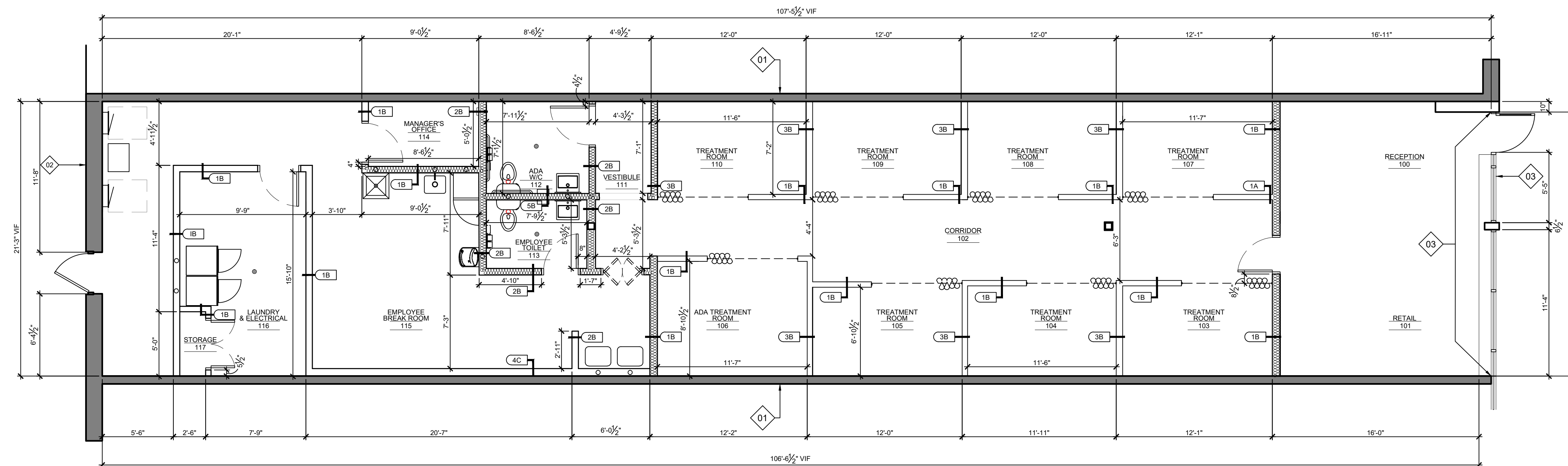
-  NIC
-  NEW PARTITION
-  EXISTING WALL
-  EXISTING WALL WITH NEW FURRING

KEYNOTES

- 01 EXISTING DEMISING WALL TO REMAIN. GC TO PROVIDE NEW LAYER OF SUBSTRATE. SEE PARTITION TYPE FOR TYPE OF SUBSTRATE TO BE USED.
- 02 EXISTING EXTERIOR WALL TO REMAIN.
- 03 EXISTING STOREFRONT TO REMAIN. CLEAN & PAINT TO MATCH. PROVIDE NEW WEATHER STOPPING TO MATCH EXISTING STOREFRONT

CONCRETE NOTES

- CONCRETE
- CONCRETE WORK SHALL CONFORM TO THE CURRENTLY ADOPTED ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE; ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS; ACI 302.1R, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
 - ULTIMATE COMPRESSIVE STRENGTH OF PORTLAND CEMENT CONCRETE, STANDARD WEIGHT AT TWENTY-EIGHT DAYS SHALL BE 4000 PSI FOR ALL CONCRETE WORK. DESIGN AND SUBMITTAL FOR CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 5 AND ACI 301, SECTION 4 AND SHALL BE SUBMITTED IN ADVANCE TO STRUCTURAL ENGINEER FOR APPROVAL.
 - CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN CONCRETE MIX.
- CONCRETE REINFORCEMENT
- REINFORCING BARS SHALL CONFORM TO ASTM SPECIFICATIONS A615; ALL BARS, GRADE 60
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATIONS A185 AND A82 PLAIN BARS.
 - DETAILING AND ACCESSORIES SHALL CONFORM TO THE ACI DETAILING MANUAL AND TO THE CRSI MANUAL OF STANDARD PRACTICE, CURRENT EDITIONS, UNLESS NOTED OTHERWISE HERE, ON DRAWINGS, OR IN SPECIFICATIONS.
 - ALL LAPS, WHEN NOT DIMENSIONED ON DRAWINGS, SHALL BE 48 BAR DIAMETERS AND NOT LESS THAN 24".
 - REINFORCING BARS ARE TO BE PLACED ON CHAIRS OR OTHER ACCESSORIES TO INSURE PROPER PLACEMENT. REINFORCING SHALL NOT BE PULLED OR MUDDIED IN PLACE.

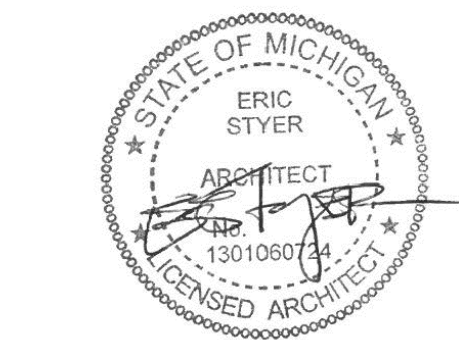


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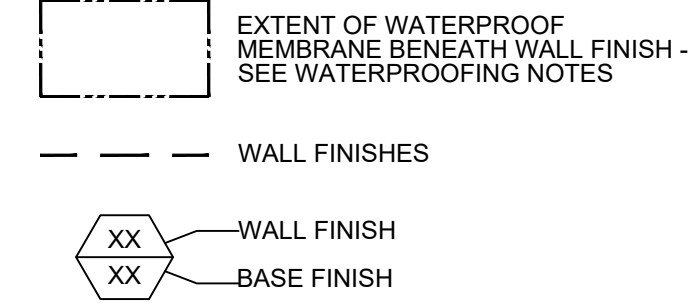
SHEET TITLE & NUMBER

DIMENSIONED PLAN

A1-31

01 DIMENSION PLAN
1/4" = 1'-0"

LEGEND



WATERPROOFING NOTE

PROVIDE LATICRETE HYDRO BAN WATERPROOFING MEMBRANE SYSTEM BENEATH ALL TILE IN RESTROOMS AND UTILITY ROOM.

WATERPROOF MEMBRANE TO WRAP WALL 6" AFF AND TERMINATE UNDER BASE IN AREAS WITH NO TILE FLOORING.

WATER CLOSETS:
WATERPROOF MEMBRANE TO RETURN UP WALL AND TERMINATE AT 47" AFF

UTILITY ROOM WALLS:
EXTEND 6" ABOVE FLOOR TYPICAL AND EXTEND 12" ABOVE FLOOR AT MOP SINK

GENERAL NOTES

1. ALL CUT TILES TO BE PUMICED SMOOTH.
2. ALL FLOOR PENETRATIONS TO BE WATERPROOFED
3. PROVIDE MOVEMENT JOINTS @ 32" CENTERS AND AROUND ALL WALLS, DRAINS (RIGID OBSTACLES)
4. SUBMIT SAMPLE AND VERIFY ALL FINISHES WITH OWNER BEFORE ORDERING.
5. PATCH AND REPAIR EXISTING FLOOR AS NECESSARY.

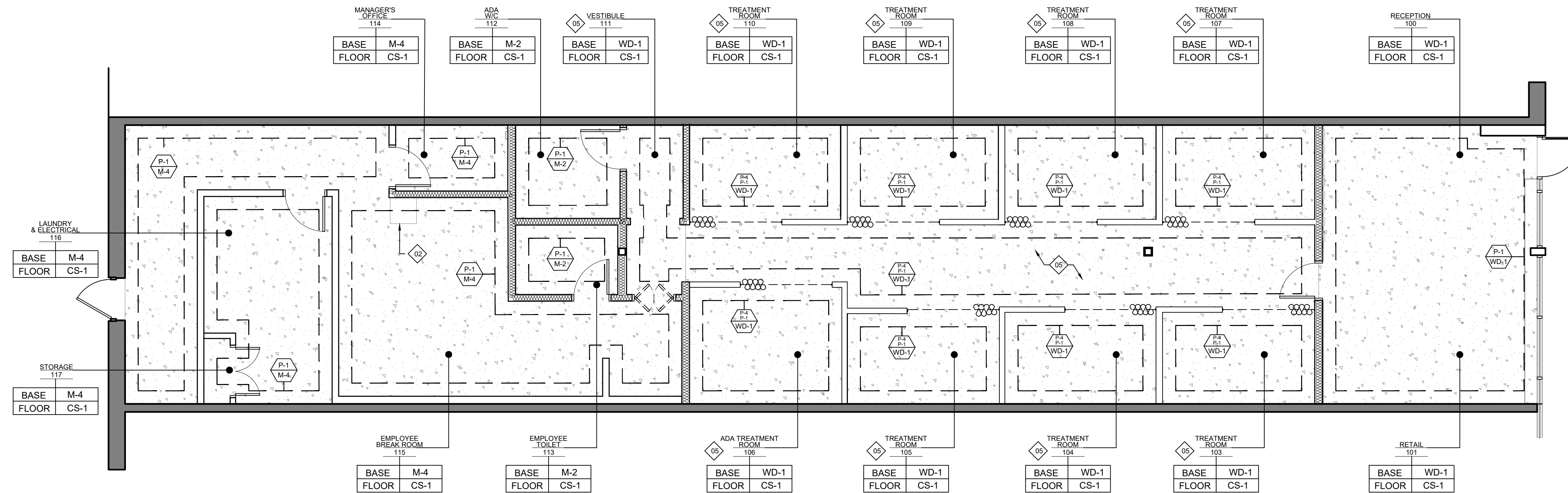
KEYNOTES

- 01 NOT USED
- 02 NO FLOORING UNDER MOP SINK
- 03 NOT USED.
- 04 NOT USED
- 05 GC TO PROVIDE DUR-A-FLEX AS ALTERNATIVE FOR ARDEX IN AREAS WHERE ARDEX APPLIED

FINISH NOTES

1. REFER TO FINISH PLAN, REFLECTED CEILING PLAN, ELEVATIONS AND DETAILS FOR ACCENT FINISH LOCATIONS, APPLICATION AND TERMINATION.
2. REFER TO REFLECTED CEILING PLAN FOR LAYOUT OF SUSPENDED ACOUSTICAL CEILING TILE.
3. REFER TO DOOR SCHEDULE FOR DOOR TYPES, FRAME TYPES AND FINISH REQUIREMENTS.
4. ALL FLOORING FINISH TRANSITIONS TO BE MADE AT CENTERLINE OF DOORS AND CASED OPENING FRAMES, UNLESS OTHERWISE SHOWN.
5. PAINT ALL UNDER-COUNTER SUPPORTS TO MATCH ADJACENT WALL FINISH.
6. PAINT ALL EXPOSED CONDUIT AT UNDER-CABINET TASK LIGHTING TO MATCH CABINET FINISH.
7. PAINT FINISHES ON GYPSUM WALL BOARD CEILINGS TO BE FLAT FINISH ON LEVEL 5 SMOOTH GYP. BOARD FINISH.
8. PAINT SPECIFICATIONS: BY BENJAMIN MOORE.
9. SCHLUTER JOLLY EDGE, DILEX/BRASS ALUMINUM, ON OUTSIDE CORNERS OF TILE WHERE APPLICABLE.
10. PRIOR TO STARTING CONSTRUCTION, GENERAL CONTRACTOR TO COORDINATE ALL WALL PAINT COLOR SELECTIONS WITH OWNER.
GYPSUM BOARD PARTITIONS: EGGSHELL INTERIOR LATEX ENAMEL
DOORS: SATIN INTERIOR LATEX ENAMEL
GYPSUM BOARD CEILINGS: FLAT INTERIOR WALL PAINT
PROVIDE MANUFACTURER'S RECOMMENDED PRIMERS AND UNDERCOATS.
11. IN THE AREAS WHERE FLOOR DRAINS OCCUR, THE FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION.

SEE SHEET A9-10 FOR FINISH SCHEDULE



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FINISH PLAN

A1-41

LEGEND

- NEW PARTITION
- EXISTING WALL
- EXISTING WALL WITH NEW FURRING
- GYPSUM BOARD CEILING
- ACOUSTIC CEILING TILE
- N.I.C.

MECHANICAL CONTRACTOR & G.C. TO COORDINATE & PROVIDE ACCESS TO ALL MECH. UNITS FOR SERVICING. MECH. CONTRACTOR & G.C. TO REVIEW ACCESS SCOPE AND REPORT ANY CONFLICTS OR ACCESS CONCERNS TO ARCHITECT & ENGINEER IMMEDIATELY.

SEE SHEET A9-10 FOR LIGHTING SCHEDULE

LIGHTING NOTES

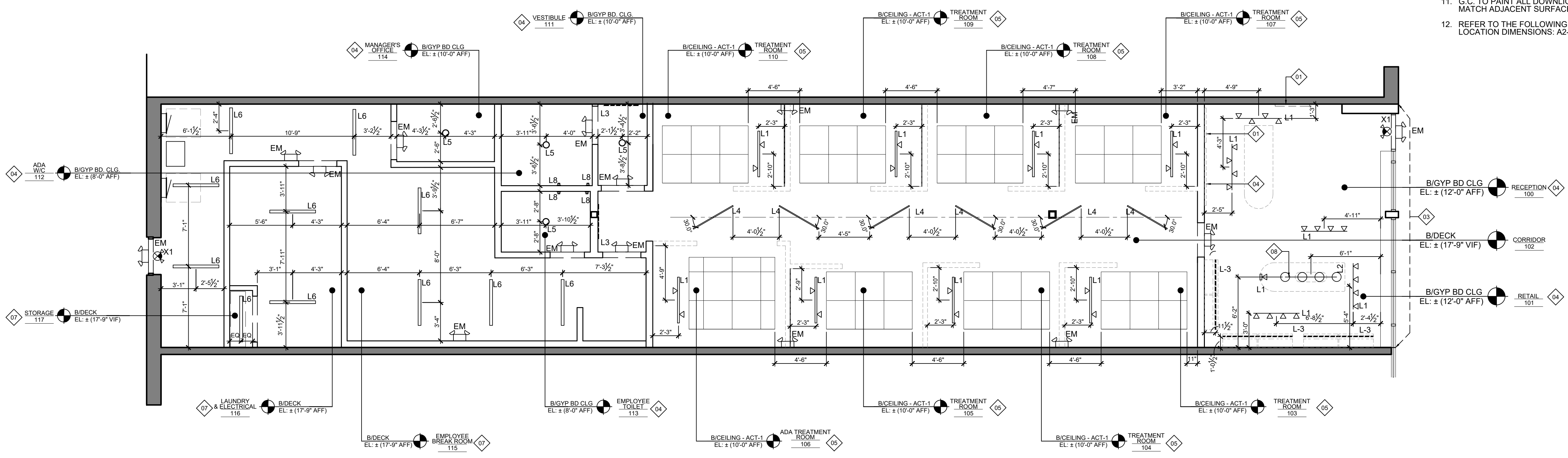
- CONTRACTOR SHALL VERIFY FIXTURE MOUNTING & COORDINATION w/ FINAL SPECIFIED CEILING SYSTEM.
- ALL FIXTURES SHALL BE U.L. LISTED.
- ELECTRICAL ENGINEER TO COORDINATE VOLTAGES.
- ALL TRACK AND LOW VOLTAGE STRIP LIGHTS TO BE FURNISHED WITH ALL NECESSARY FEEDS, SPLICES, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DIMENSIONS AND/OR DETAILS.
- NO SUBSTITUTION OF SPECIFIED FIXTURE, LAMP OR CONTROLS MANUFACTURER WILL BE ACCEPTABLE WITHOUT SPECIFIC PRIOR APPROVAL OF THE ARCHITECT. IF CONTRACTOR MAKES A SUBSTITUTION WITHOUT SAID PRIOR APPROVAL HE SHALL REPLACE THE SUBSTITUTED ITEM WITH THE SPECIFIED ITEM AND SHALL BEAR THE ALL ASSOCIATED COSTS (INCLUDING BUT NOT LIMITED TO THE ARCHITECT'S LABOR COSTS INVOLVED IN RE-AMING FIXTURES, TRAVELING TO THE SITE, ETC.) WITHOUT ANY ADDITIONAL CHARGE TO THE OWNER.
- ANY NON-FLUORESCENT OR NON-LED LAMP USED DURING THE COURSE OF THE CONSTRUCTION SHALL BE REPLACED AND RELAMPED PRIOR TO PROJECT TURNOVER TO OWNER. COST OF LAMP REPLACEMENT SHALL BE INCURRED BY CONTRACTOR.
- ALL EXTERIOR LIGHTS TO BE TIED INTO DIMMING SYSTEM. ALL TO BE ON PHOTOCELL & TIME CLOCK & WILL BE SYNCHRONIZED WITH THE EXTERIOR SIGNAGE.
- REMOTE TRANSFORMERS AND BALLAST TO BE LOCATED IN WELL VENTILATED LOCATION AS NECESSARY. REMOTE TRANSFORMERS SHALL BE UL LISTED w/ RE-SETTABLE SECONDARY SIDE CIRCUIT BREAKER PROTECTION PER NEC. TRANSFORMER SIZE AND SECONDARY BREAKER CAPACITY TO BE DETERMINED BY ELECTRICAL CONTRACTOR FOR EACH CONDITION. AT REMOTE TRANSFORMERS, MINIMUM SECONDARY WIRE SIZE SHALL BE #10 STRANDED THHN UNLESS NOTED OTHERWISE. MAXIMUM SECONDARY RUN SHALL BE LESS THAN 20LF FOR 150VA LOAD. FOR GREATER LOAD OR LONGER RUN, PROVIDE VOLTAGE DROP CALCULATION INDICATES A SMALLER WIRE SIZE TO BE ACCEPTABLE.
- ALL EM-FIXTURES IN GYP. BOARD CEILINGS TO MATCH SURROUNDING CEILING COLOR.
- ALL LIGHTING TO BE DIMMABLE, REFER TO E-SHEETS.

KEYNOTES

- 01 DIGITAL DISPLAY, G.C. TO PROVIDE POWER.
- 02 HEYDAY BRAND INTERIOR SIGNAGE, G.C. TO PROVIDE POWER.
- 03 HEYDAY BRAND EXTERIOR BACKLIT SIGNAGE, G.C. TO PROVIDE POWER.
- 04 5/8" GYP. BOARD, TAPED & PAINTED. REFER TO DETAILS FOR F.T. BACKING AND BLOCKING LOCATIONS
- 05 30"x30" ECOFON
- 06 NOT USED
- 07 OPEN TO STRUCTURE ABOVE
- 08 CENTER FIXTURE OVER ROOM/CASEWORK BELOW

RCP GENERAL NOTES

- CENTER ALL FIXTURES IN CEILING TILES AT FRONT OF HOUSE & FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT (TO MATCH DRAWINGS).
- G.C. TO DEVELOP COORDINATION DRAWINGS FOR EXISTING CEILING AND PIPING HEIGHTS IN CONJUNCTION WITH HEIGHTS OF NEW CEILING, SUSPENDED UNITS, DUCTWORK, LIGHTING, ETC. & NOTIFY ARCHITECT OF CONFLICTS.
- ALL ACCESS PANELS IN GYP. BD. CEILING TO BE COORDINATED w/ ARCHITECT. PROPOSED LOCATIONS TO BE LOCATED ON DRAWINGS & EMAILED TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. ALLOW (1) WEEK FOR RESPONSE. ACCESS PANELS IN PUBLIC GYP BD TO BE GRFG TYPE.
- E.C. TO VERIFY ALL LOCATIONS OF WALL MOUNTED J-BOXES FOR SCONCES AND CLOCK OUTLETS w/ OWNER PRIOR TO INSTALLATION.
- SEE FIRE PROTECTION SHEETS FOR SPRINKLER FIRE PROTECTION SYSTEM REQUIREMENTS.
 - GYP. BD. CEILINGS AT PUBLIC AREAS AND COOKLINES - RECESSED HEADS WITH FLUSH COVER PLATES TO MATCH CEILING COLOR WHERE LOCATED - SHOP FINISHED.
- CEILING HEIGHTS GIVEN ARE FROM HEIGHT OF FINISH FLOOR BELOW. COORDINATE WITH INTERIOR ELEVATIONS.
- G.C. TO INSTALL ALL OWNER SUPPLIED CUSTOM LIGHT FIXTURES & PROVIDE LAMPS UNO.
- G.C. TO COORDINATE OWNER SUPPLIED AUDIO/VISUAL INSTALLATION AND WIRING.
- G.C. TO PAINT ALL GYP. BD. CEILINGS AND SOFFITS.
- G.C. TO PAINT ALL DIFFUSERS TO MATCH ADJACENT SURFACE.
- G.C. TO PAINT ALL DOWNLIGHT TRIM RINGS TO MATCH ADJACENT SURFACE.
- REFER TO THE FOLLOWING SHEETS FOR LIGHTING LOCATION DIMENSIONS: A2-11



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No. Issue		06/09/2022
95% REVIEW ISSUED FOR PERMIT & BID		

SHEET TITLE & NUMBER

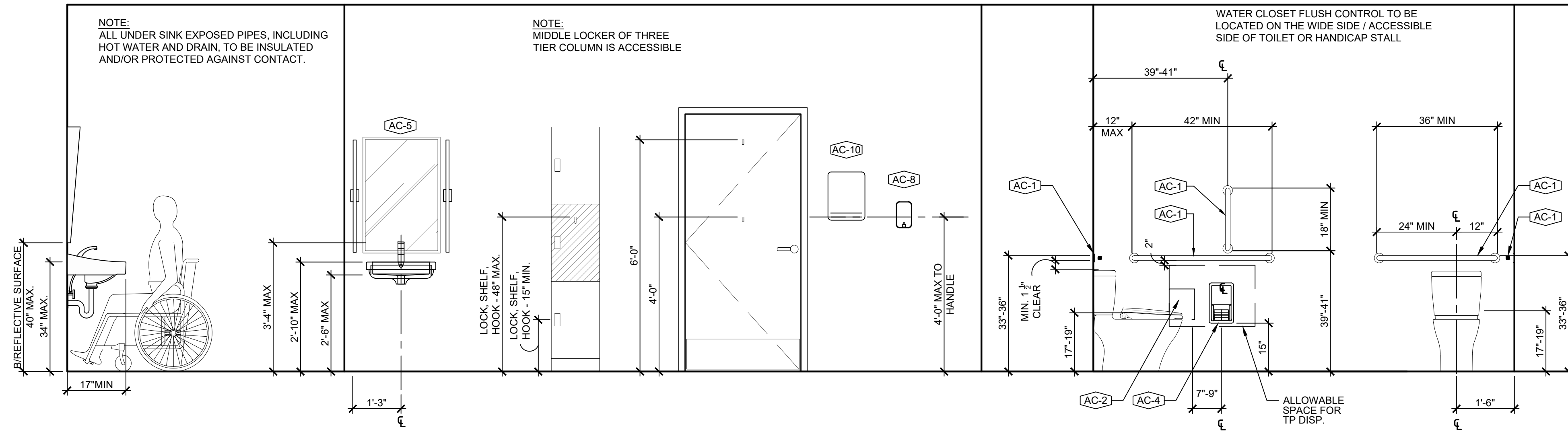
REFLECTED CEILING PLAN

A2-11

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01 REFLECTED CLG PLAN

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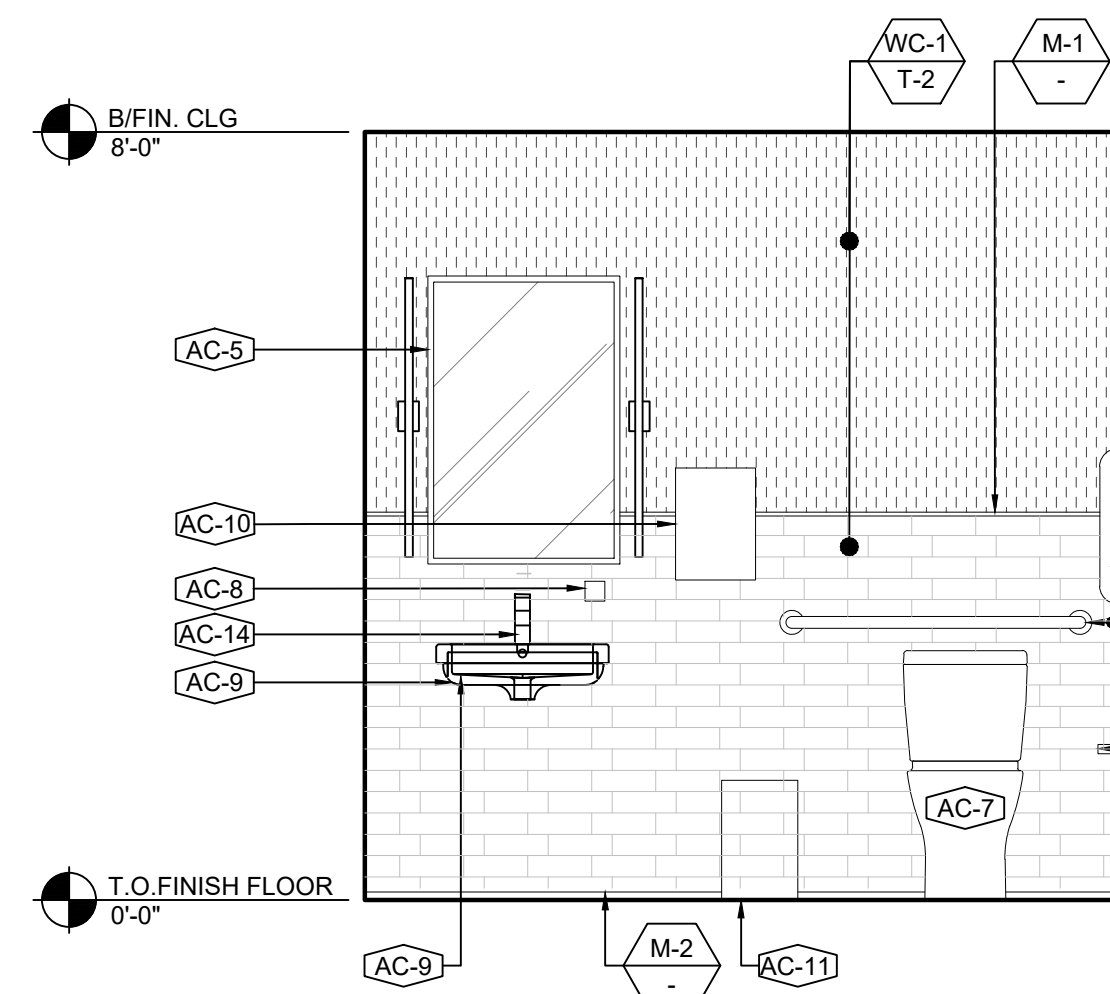
GENERAL NOTES
G.C. TO PROVIDE FRT IN-WALL BLOCKING AT ALL GRAB BARS, FIXTURES, ACCESSORIES, ETC. AS NECESSARY.

SYMBOL LEGEND
FIXTURES AND ACCESSORIES SEE FIXTURE AND ACCESSORY SCHEDULE ON SHEET A3-11
P-# FINISH TAG SEE FINISH SCHEDULE ON SHEET A9-10

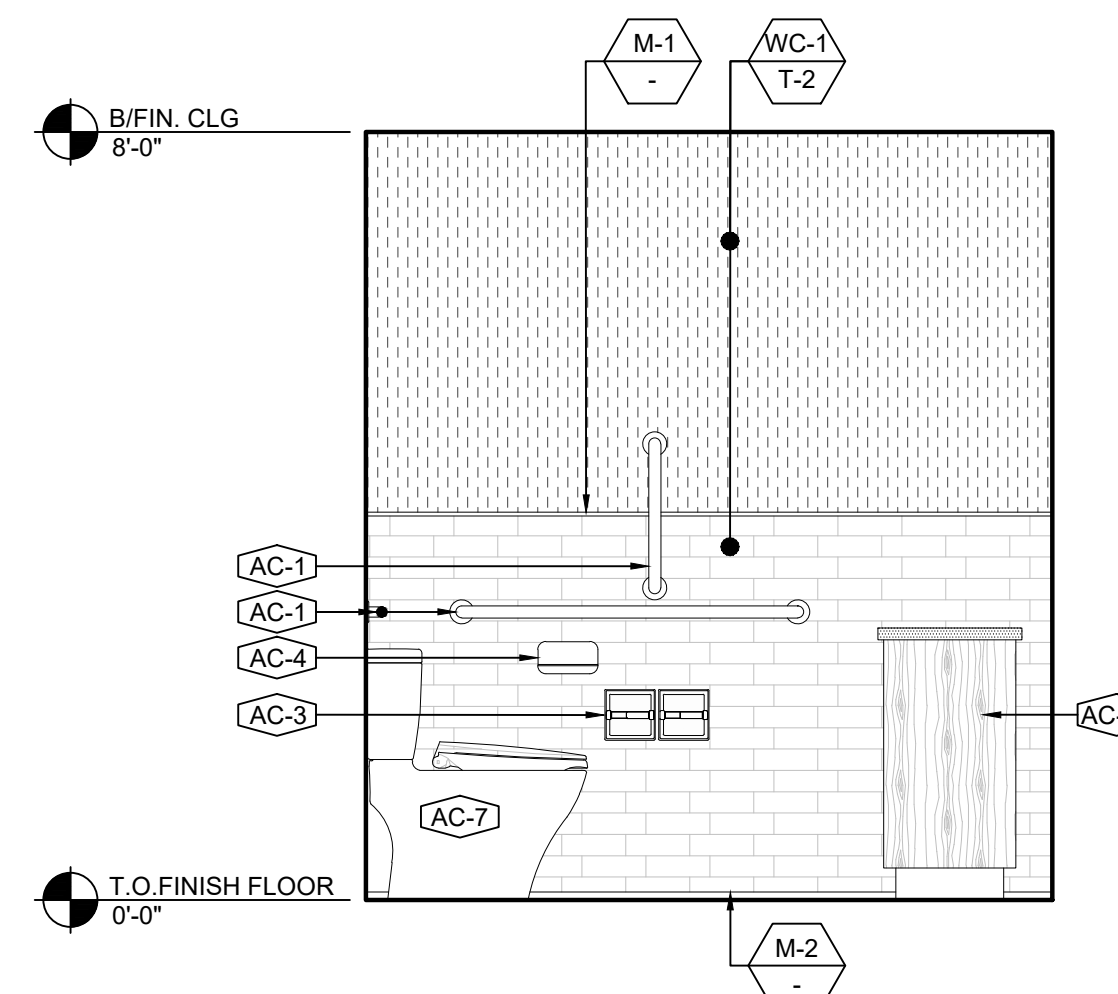
SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE.

SEE 2/A3-11 FOR FIXTURES MOUNTING HEIGHTS

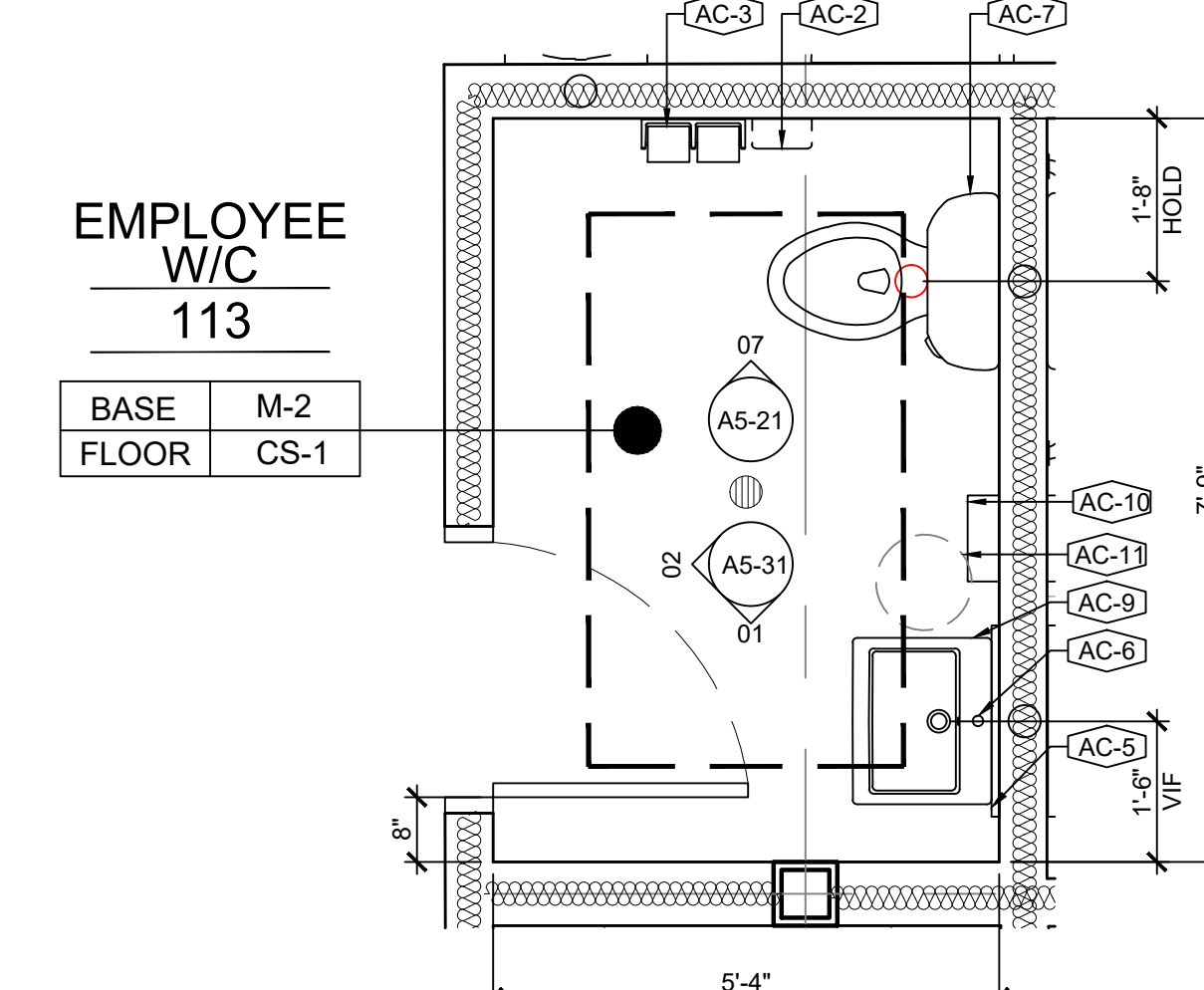
GENERAL NOTES
G.C. TO VERIFY EXISTING PLUMBING FIXTURES AND ACCESSORIES TO BE CODE COMPLIANT, UPGRADE PER SCHEDULE AS REQUIRED.



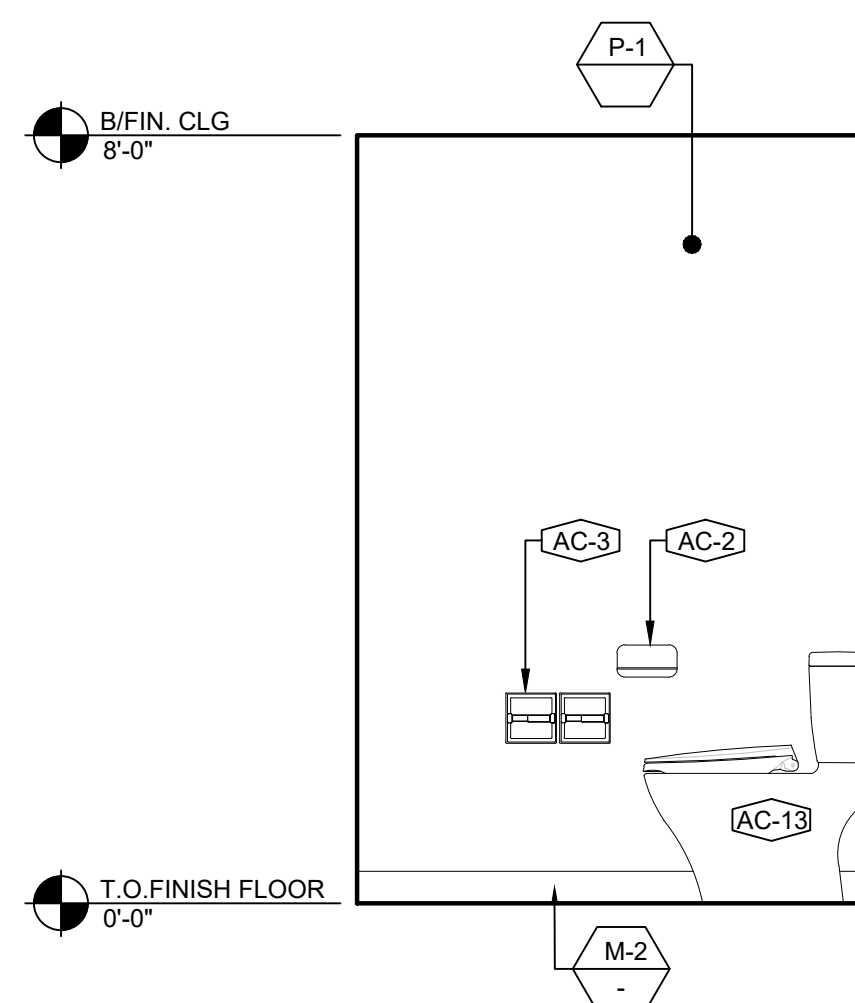
06 ADA TOILET ELEVATION
1/2" = 1'-0"



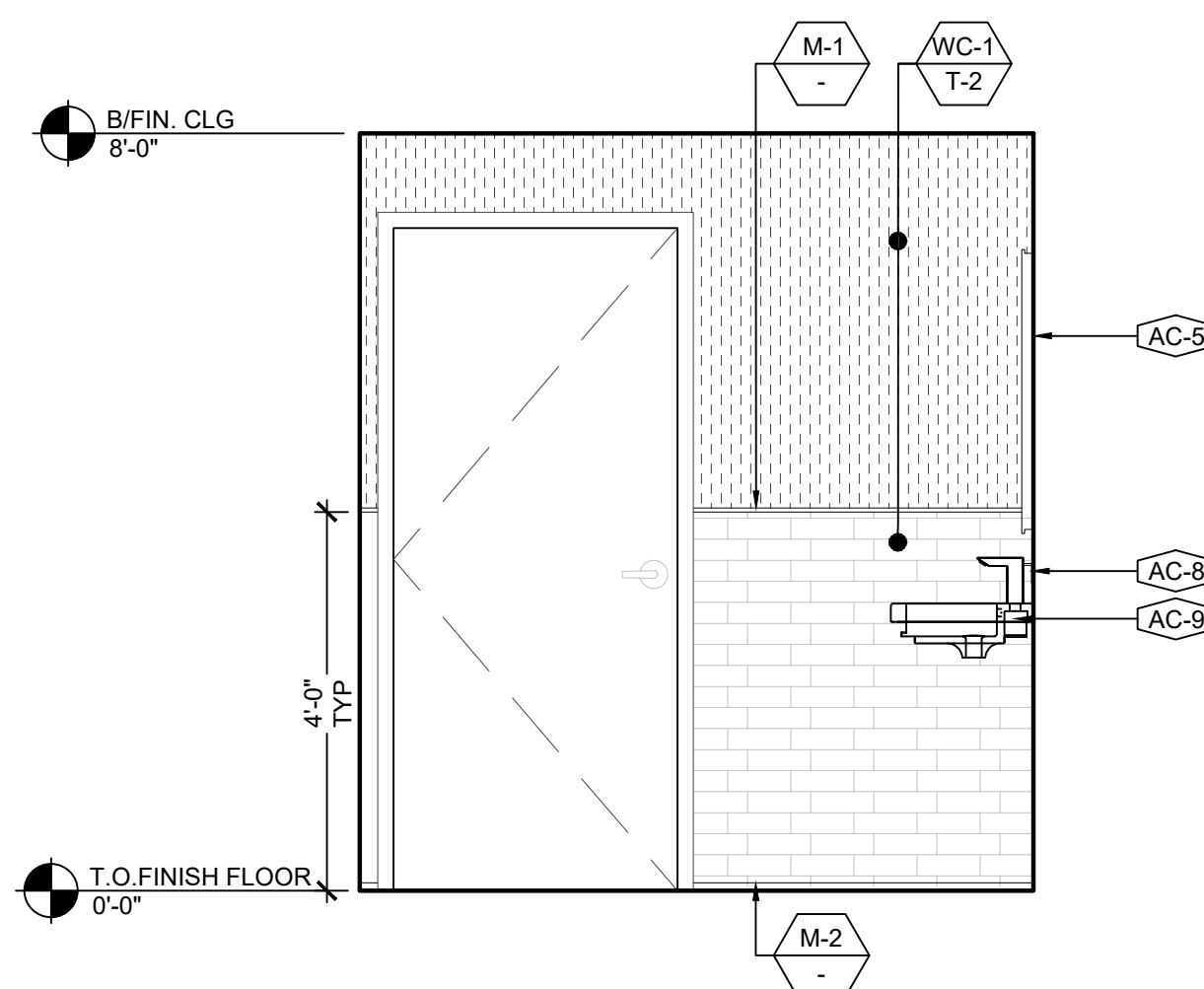
04 ADA TOILET ELEVATION
1/2" = 1'-0"



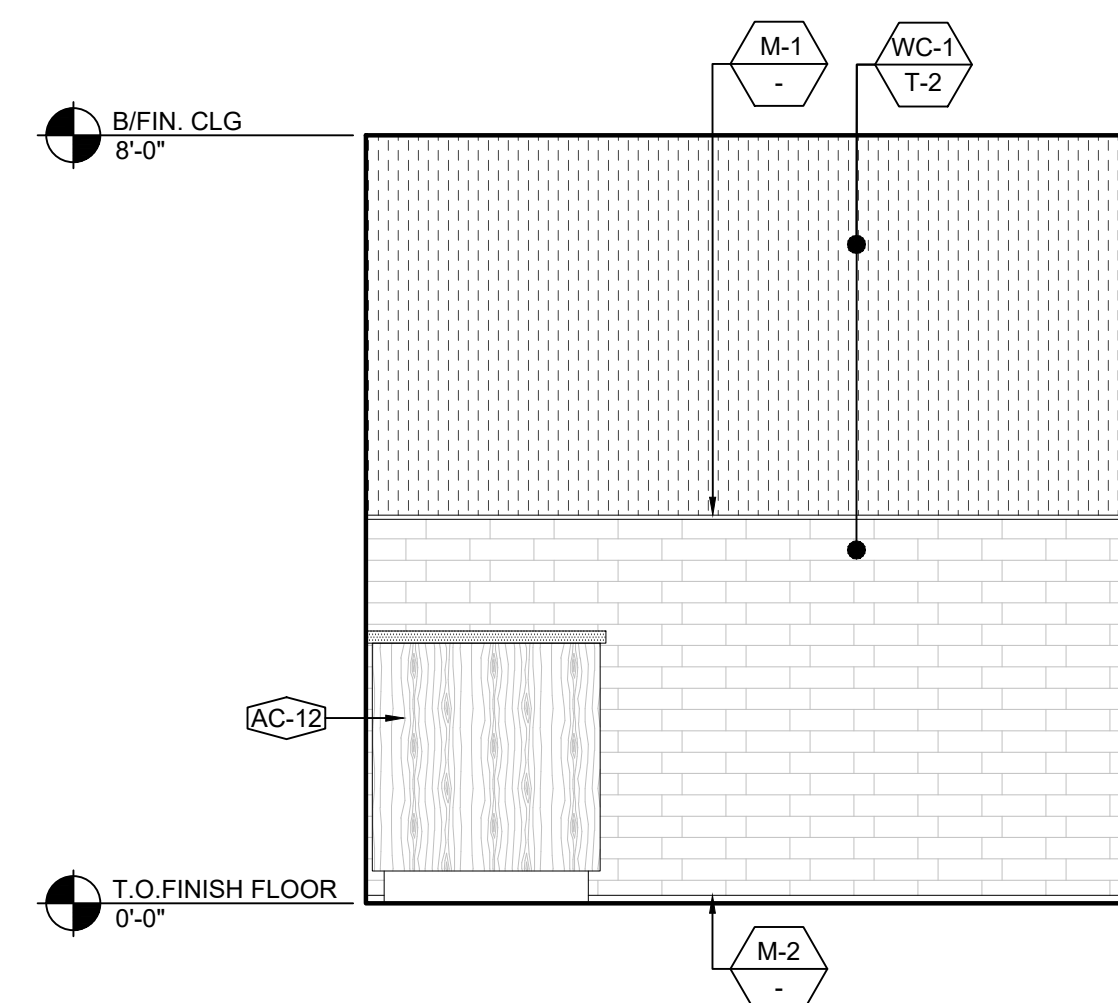
02 EMPLOYEE TOILET
1/2" = 1'-0"



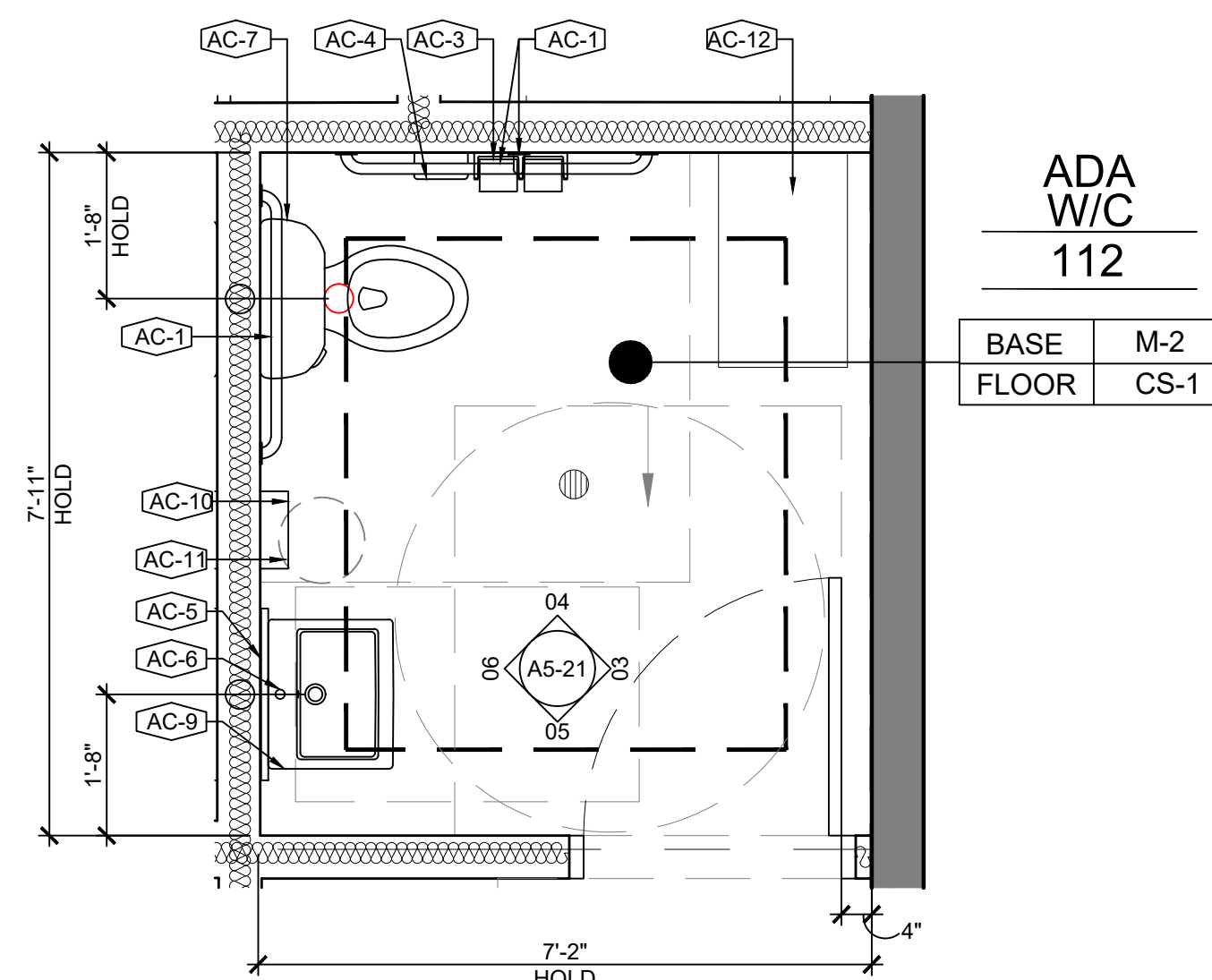
07 EMPLOYEE TOILET ELEVATION
1/2" = 1'-0"



05 ADA TOILET ELEVATION
1/2" = 1'-0"



03 ADA TOILET ELEVATION
1/2" = 1'-0"



01 ADA TOILET
1/2" = 1'-0"

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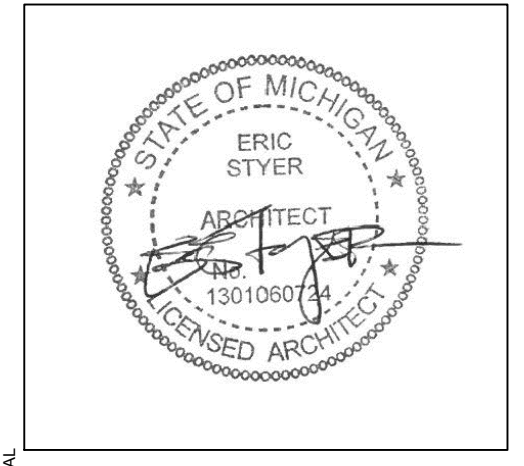
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No.:	ISSUED FOR PERMIT & BID	06/09/2022

SHEET TITLE & NUMBER
RESTROOM PLAN ELEVATIONS & DETAILS

A5-21

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HEYDAY
 HEYDAY - ANN ARBOR- CRANBROOK VILLAGE
 890 W. EISENHOWER PKWY
 ANN ARBOR, MI 48103



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 ARCHITECTS
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 CONSULTANTS

CASE Engineering Inc.
 ENGINEERS
 10000 W. GRAND AVENUE
 GRAND RAPIDS, MI 49508

PERMIT / BID

Project Number: 22-067	Approved By: XX	Date: 05/12/2022
Drawn By:	Issue	06/09/2022
No.:	95% REVIEW	ISSUED FOR PERMIT & BID

SHEET TITLE & NUMBER

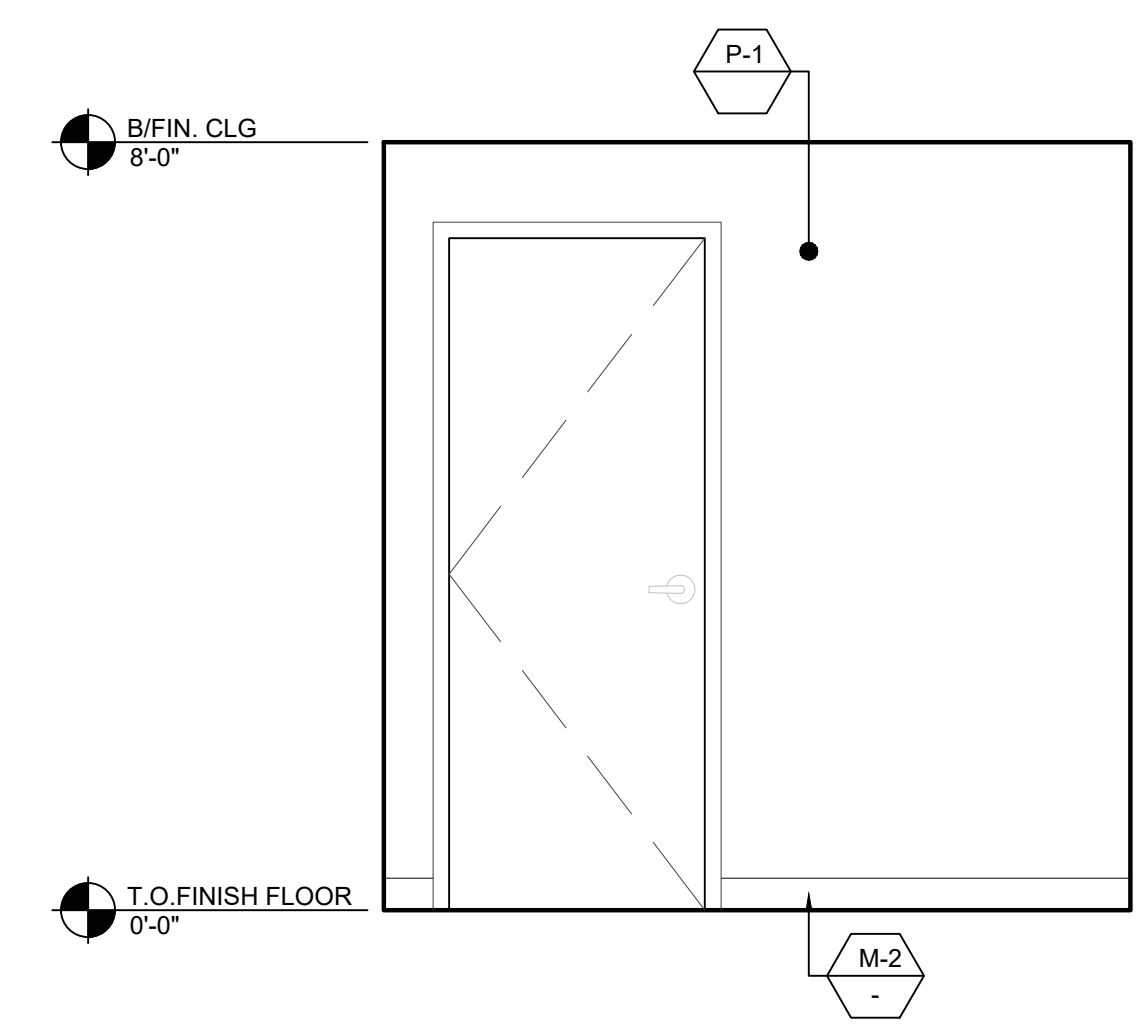
RESTROOM PLAN ELEVATIONS & DETAILS

A5-31

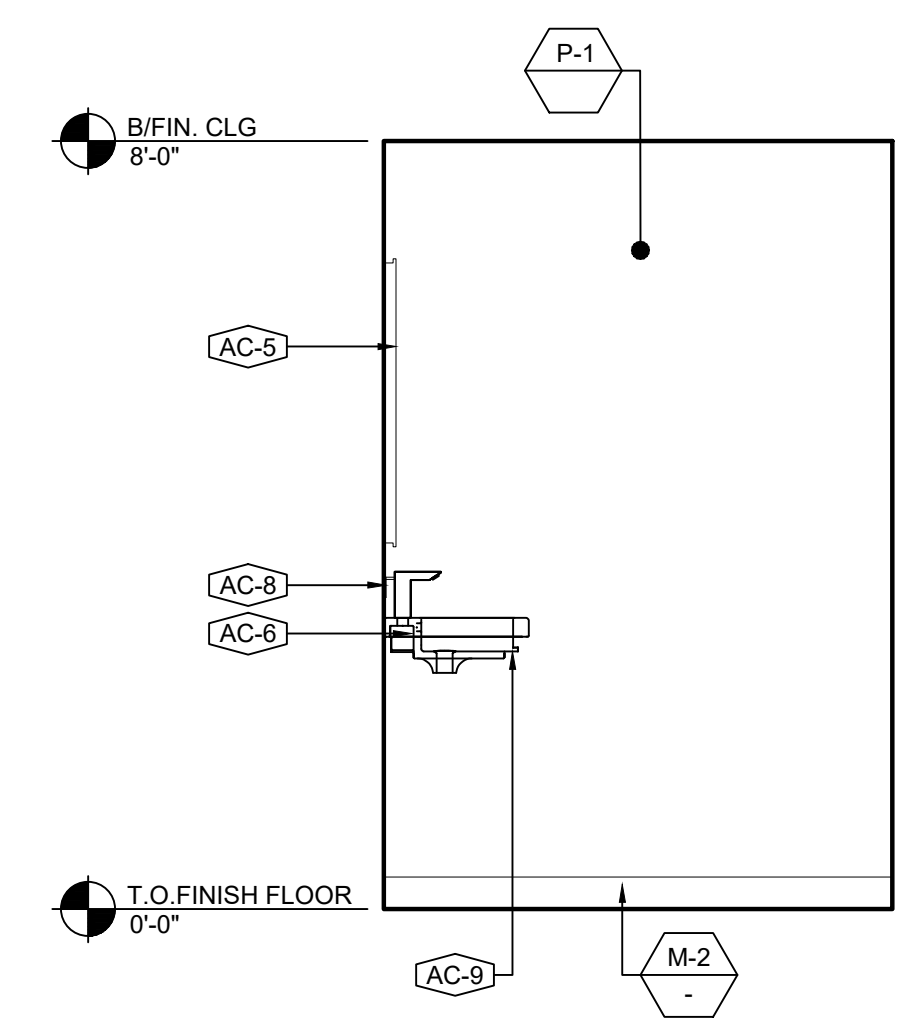
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TOILET ACCESSORIES SCHEDULE						
KEY	DESCRIPTION	MANUF	MODEL	FINISH	MOUNTING	REMARKS
AC-1	GRAB BARS. 42" GRAB BAR @ SIDE 36" GRAB BAR @ BACK 18" VERTICAL GRAB BAR @ SIDE	GRAB BAR SPECIALISTS	1-1/4" BRUSHED BRASS STRAIGHT GRAB BAR	BRUSHED BRASS	SURFACE MOUNT	G.C. TO PROVIDE IN-WALL BACKING
AC-2	SANITARY NAPKIN DISPOSAL	BOBRICK	CONTURA SERIES-B-270	STAINLESS STEEL	MIN. 1" CLEAR OF HANDRAIL	EMPLOYEE TOILET
AC-3	TOILET TISSUE DISPENSER	BOBRICK	#b-6637	STAINLESS STEEL	RECESSED	EMPLOYEE TOILET
AC-4	TOILET TISSUE HOLDER	DELTA	#77750-CZ VERO TISSUE HOLDER	CHAMPAGNE BRONZE	SURFACE MOUNT	ADA TOILET, GC TO PROVIDE BLOCKING
AC-5	24"X36" MIRROR	BOBRICK	-	STAINLESS STEEL	WALL MOUNT	G.C. TO PROVIDE IN-WALL BACKING EMPLOYEE TOILET
AC-6	FAUCET	MAC FAUCETS	#FA444-22	SATIN BRASS	SURFACE MOUNT	-
AC-7	TOILET - ADA	TOTO	CT705-ELN WITH TMTILN32 CP FLUSH VALVE	WHITE	FLOOR	PROVIDE CHURCH #9500ssc OPEN FRONT COUNTOURED HEAVY DUTY SET
AC-8	SOAP PUMP HOLDER	MATT ALFORD STUDIO	BRASS PUMP BOTTLE HOLDER		WALL MOUNT	-
AC-9	LAVATORY	DURAVIT	031555 VERO VANITY BASIN	WHITE	DROP IN BASIN	-
AC-10	PAPER TOWEL DISPENSER	KATOM	ALPINE INDUSTRIES 480-AN WALL MOUNT	STAINLESS STEEL, NICKEL	WALL MOUNT	G.C. TO PROVIDE IN-WALL BACKING
AC-11	TRASH CAN	PARADIGM TRENDS	MADISON WASTE BASKET	ANTIQUE BRASS	-	
AC-12	CABINET				-	
AC-13	TOILET	TOTO	CT705-ELN WITH TMTILN32 CP FLUSH VALVE	WHITE	FLOOR	PROVIDE CHURCH #9500ssc OPEN FRONT COUNTOURED HEAVY DUTY SET
AC-14	FAUCET	DELTA	559LF-CZMPU	CHAMPAGNE BRONZE	SURFACE MOUNT	

NOTES:
 1. G.C. TO ENSURE THAT FLUSH VALVES ARE COORDINATED WITH GRAB BAR LOCATIONS.
 2. ALL FAUCETS SHALL CONFORM TO ASME/ANSI A1 12.18.1. PER CODE.



02 EMPLOYEE TOILET ELEVATION
 1/2" = 1'-0"



01 EMPLOYEE TOILET ELEVATION
 1/2" = 1'-0"

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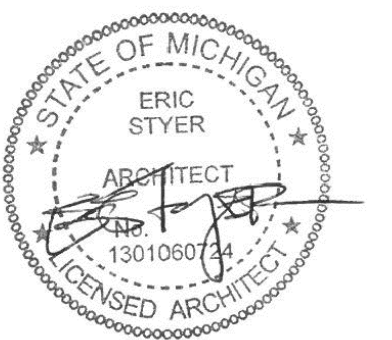
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HEYDAY

PROJECT: **HEYDAY - ANN ARBOR- CRANBROOK VILLAGE**

890 W. EISENHOWER PKWY
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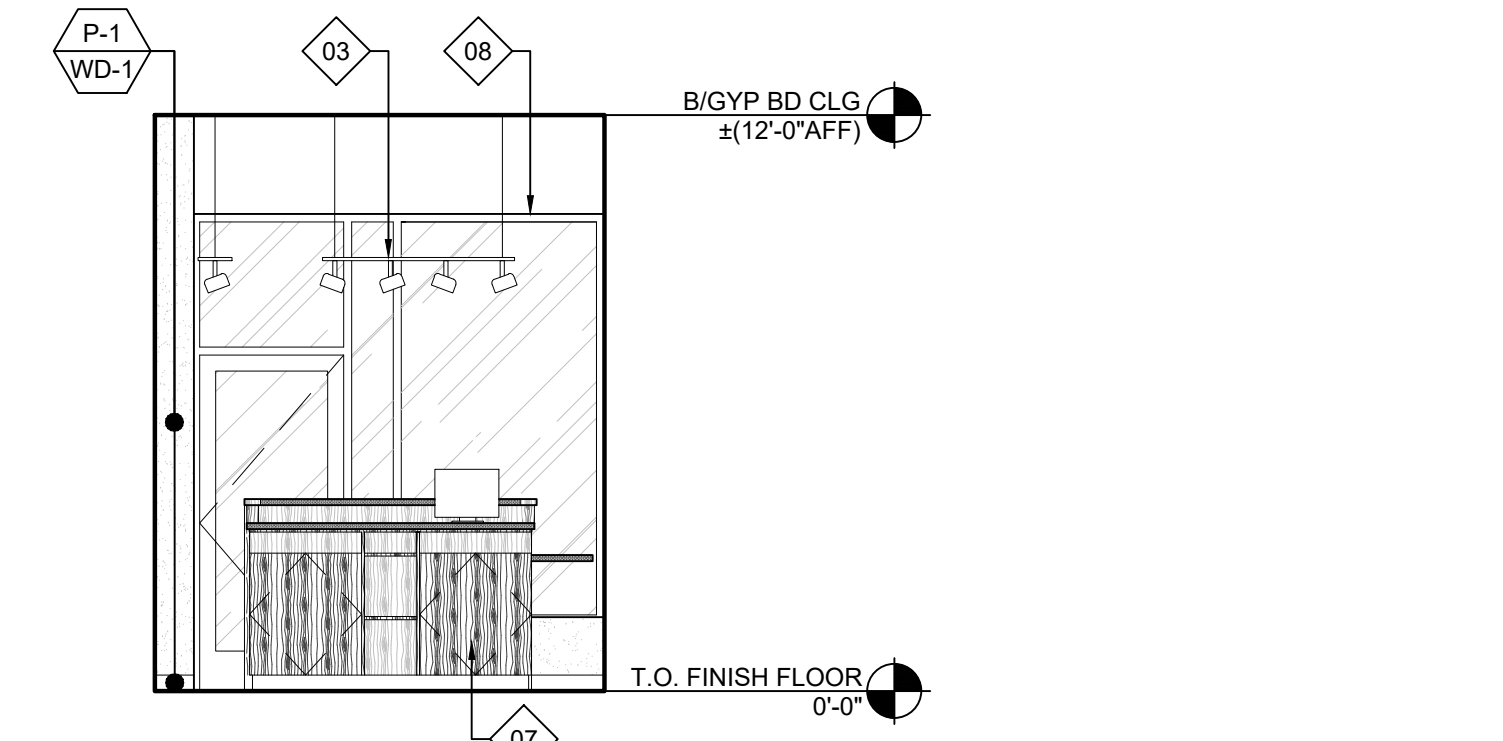
Project Number: 22-087	Approved By: XX	Date: 05/12/2022
Drawn By:		06/09/2022
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INTERIOR ELEVATIONS

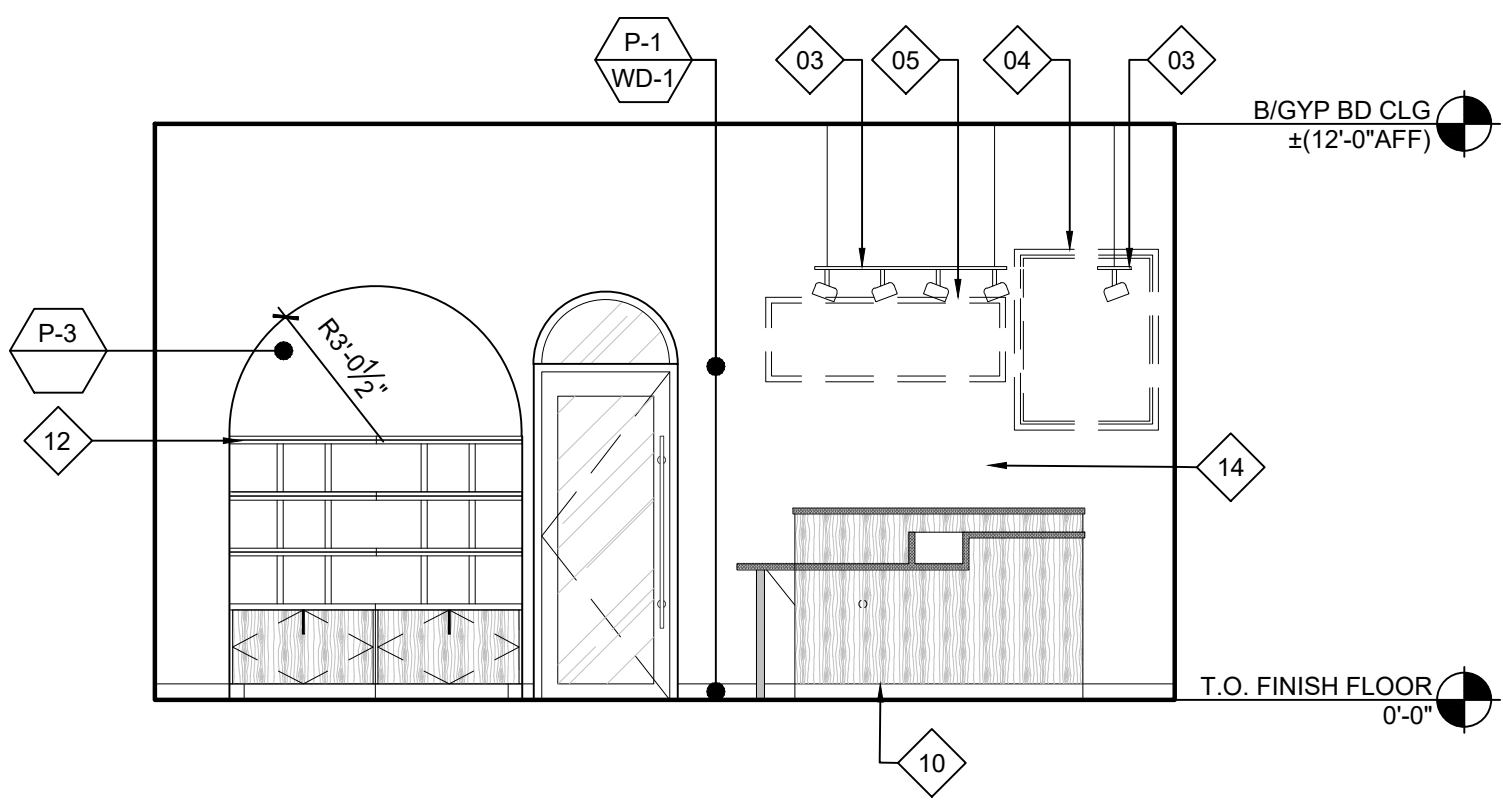
A5-41

KEYNOTES

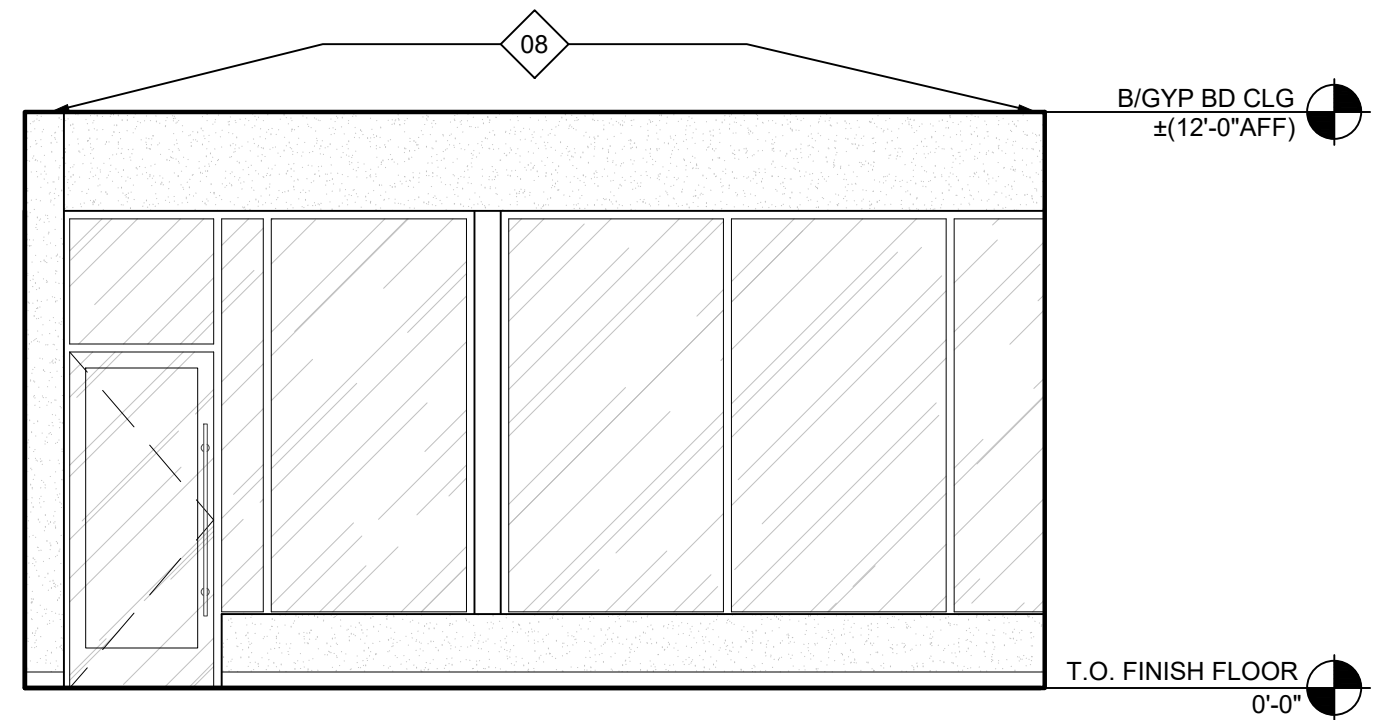
- 01 TREATMENT ROOM BACK BAR FINISHES SEE DETAIL 1/A7-12 FOR MORE INFORMATION
- 02 BENCH SEE DETAIL 07/A7-13 FOR MORE INFORMATION
- 03 LIGHT FIXTURES SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
- 04 DIGITAL DISPLAY SHOWN DASHED FOR CLARITY. PROVIDE F.T. BLOCKING FOR WALL MOUNT. PROVIDE POWER.
- 05 INTERIOR SIGNAGE, PROVIDE POWER & F.T. BLOCKING
- 06 MIRROR
- 07 RECEPTION DESK. SEE A7-11 FOR MORE INFORMATION.
- 08 EXISTING STOREFRONT TO REMAIN.
- 09 RETAIL SHELF SEE A7-13 FOR MORE INFORMATION
- 10 RETAIL DESK SEE A7-13 FOR MORE INFORMATION
- 11 18"X24" ARTWORK, PROVIDED BY OWNER & INSTALLED BY GC
- 12 PAINT FINISH TRANSITION LINE
- 13 MOP SINK
- 14 ONLINE PICK UP
- 15 EMPLOYEE FRIDGE
- 16 BREAKROOM MILLWORK AND COUNTER



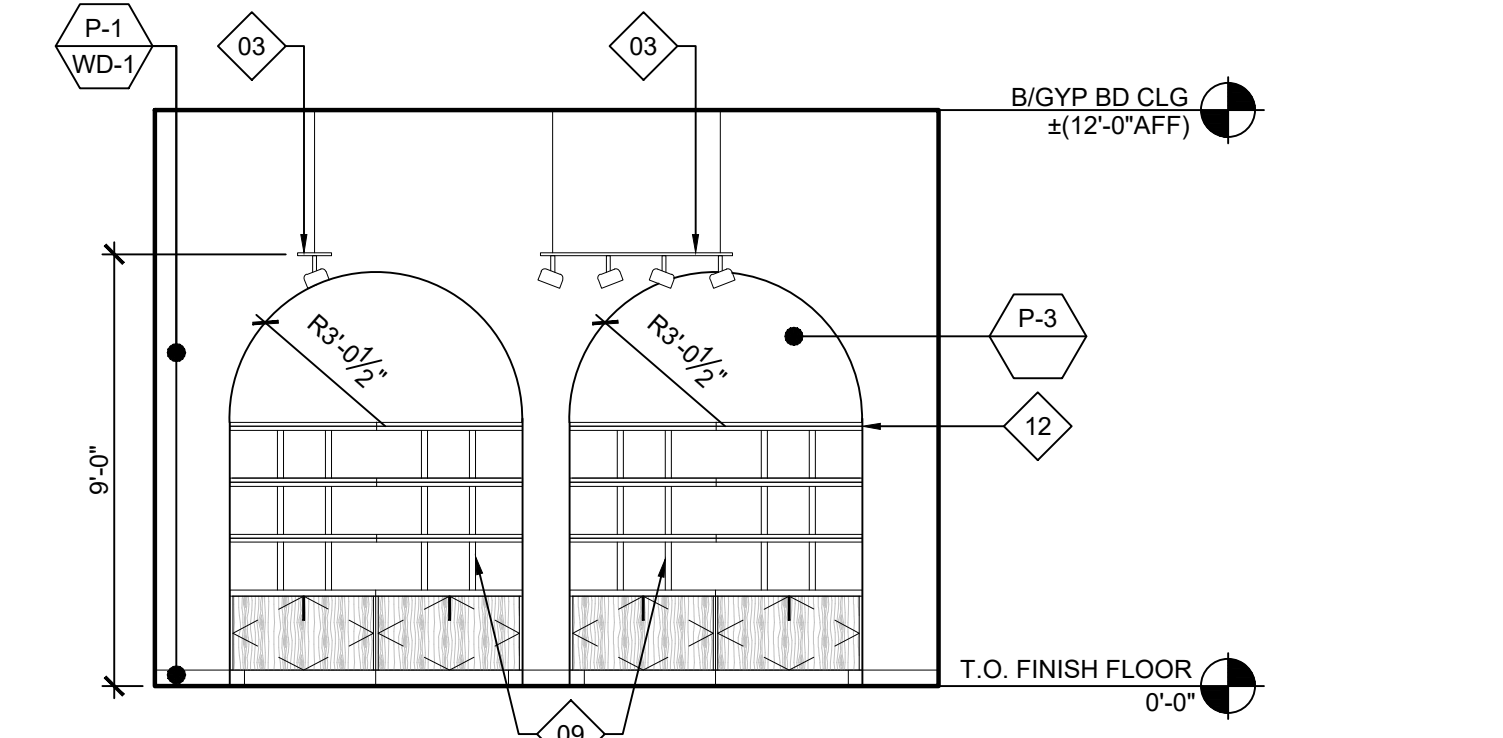
04 RECEPTION WEST ELEVATION
1/4" = 1'-0"



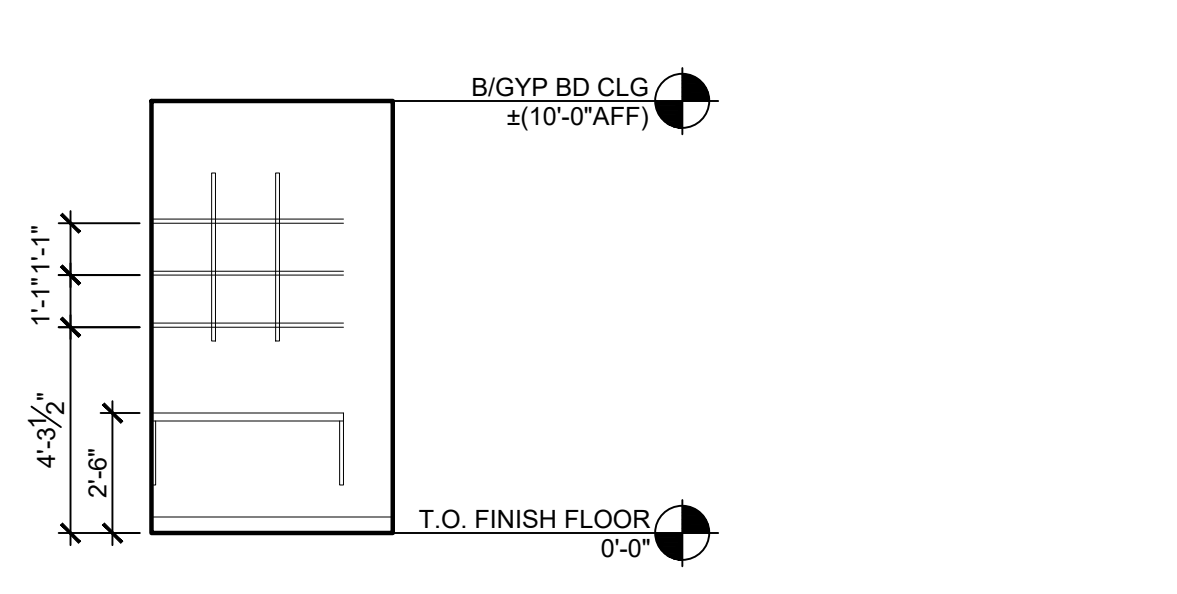
03 RECEPTION EAST ELEVATION
1/4" = 1'-0"



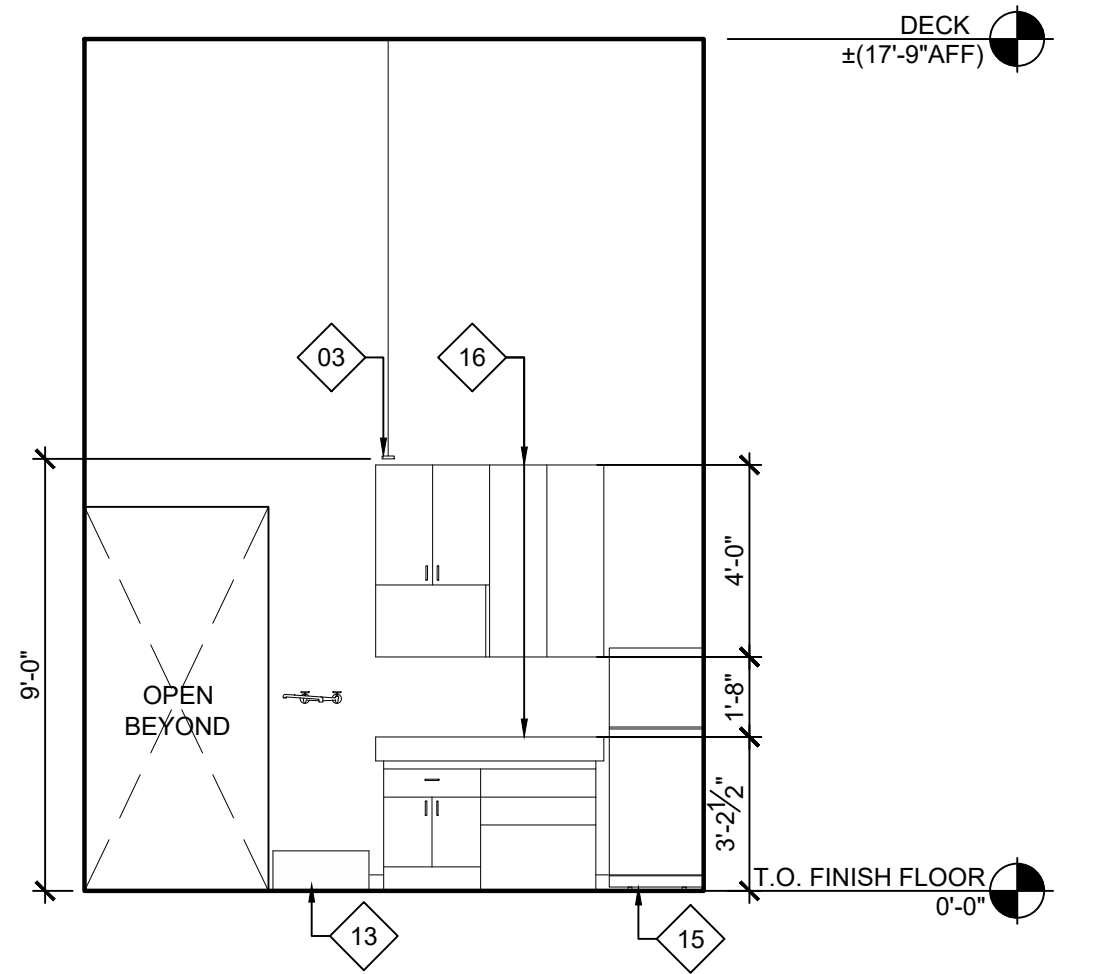
02 STOREFRONT ELEVATION
1/4" = 1'-0"



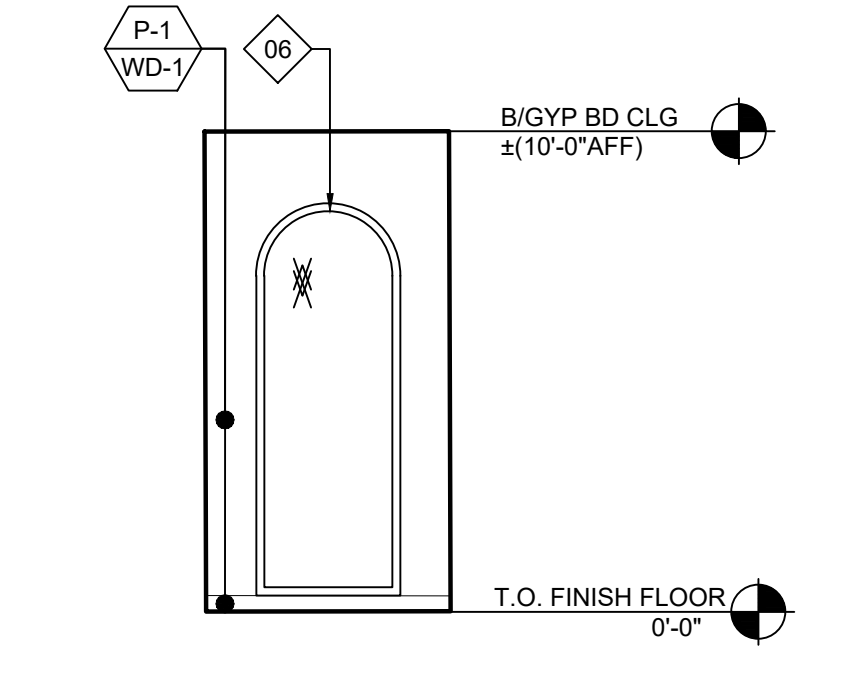
01 RETAIL WEST ELEVATION
1/4" = 1'-0"



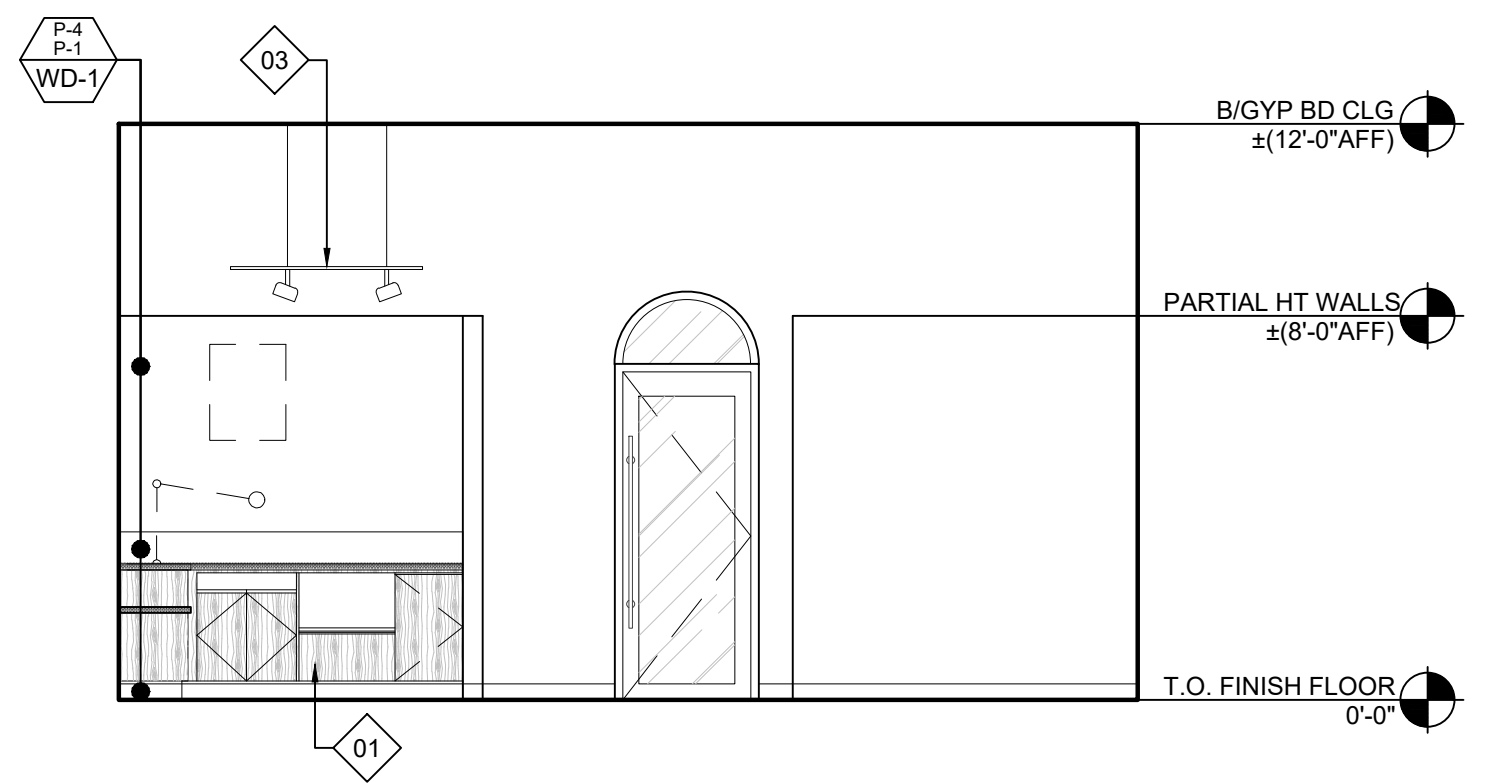
09 MANAGER'S OFFICE ELEVATION
1/4" = 1'-0"



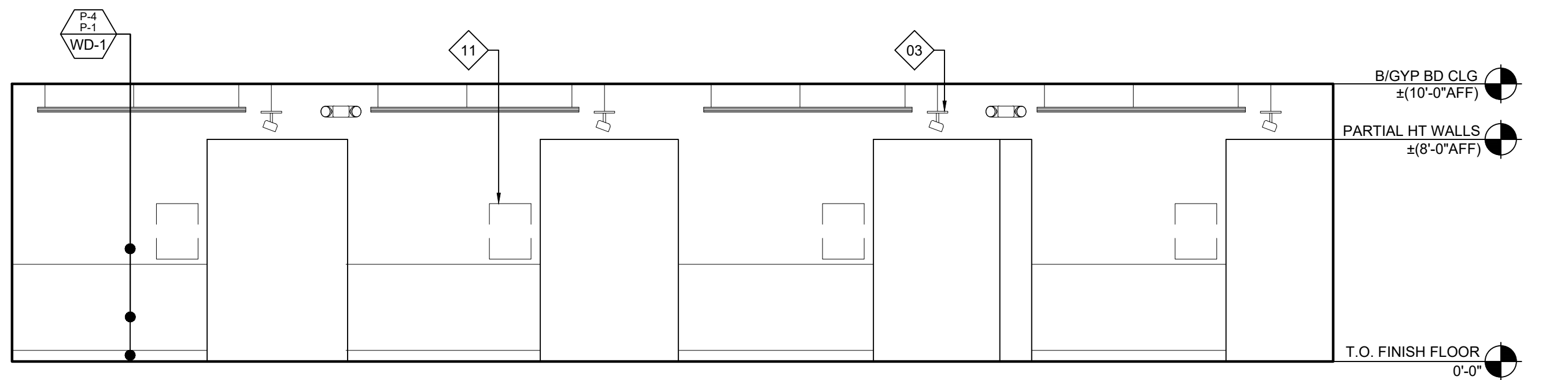
08 BREAKROOM ELEVATION
1/4" = 1'-0"



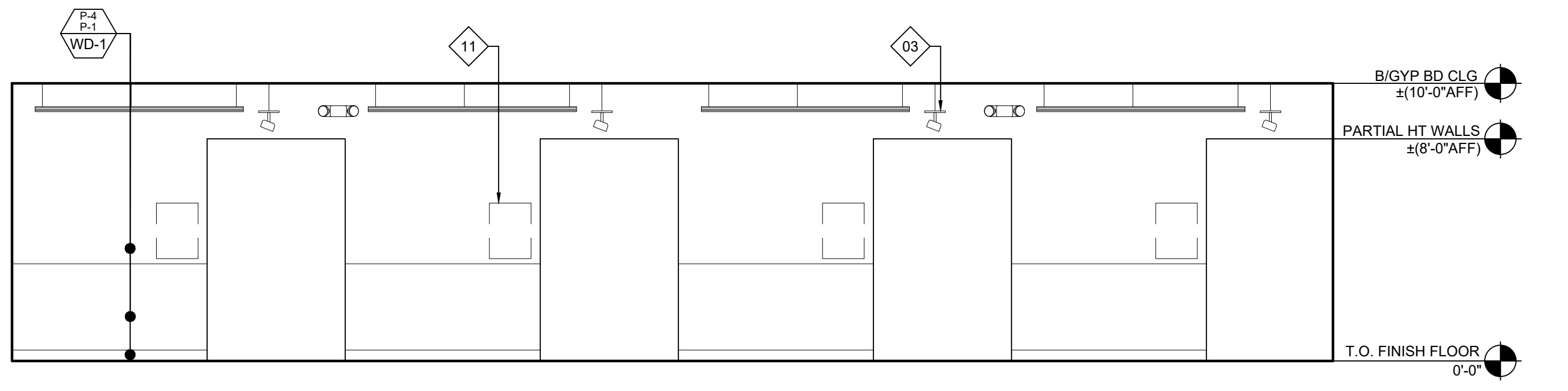
10 MIRROR HALL ELEVATION
1/4" = 1'-0"



07 CORRIDOR ELEVATION
1/4" = 1'-0"

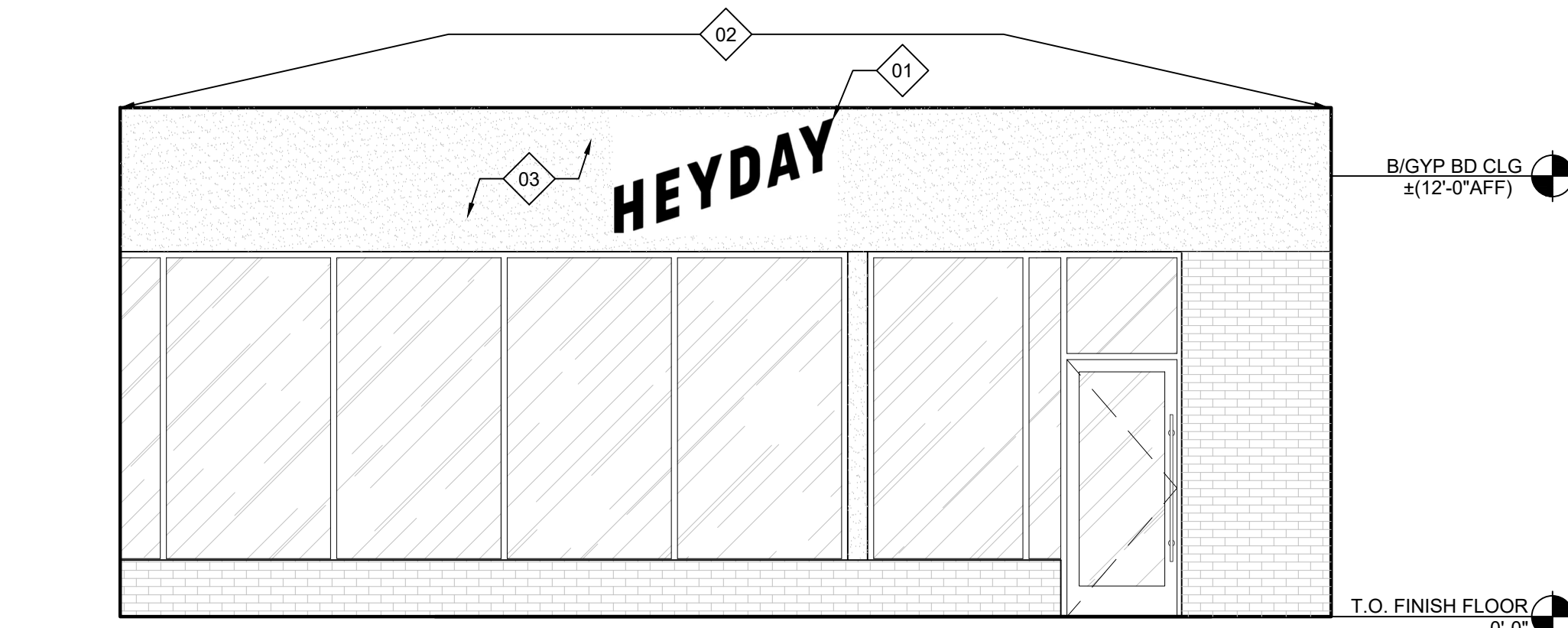


06 TREATMENT ROOM ELEVATION
1/4" = 1'-0"



05 TREATMENT ROOM ELEVATION
1/4" = 1'-0"

PLOT DATE: 07/20/23 1:41 PM PLOTTED BY: SARALANMAN



01 STOREFRONT ELEVATION

1/4" = 1'-0"

KEYNOTES

- 01 HEYDAY BLACK HALO LIT SIGNAGE MOUNTED ON STOREFRONT PANEL
- 02 EXISTING STOREFRONT TO REMAIN.
- 03 MURAL PAINTING ON A CUSTOM PANEL MOUNTED ONTO EXISTING FACADE

NOTE

VERIFY ALL PAINT COLORS, FINISHES AND RESPECTIVE LOCATIONS WITH OWNER

MUNICIPAL APPROVAL STAMP

CLIENT

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CONSULTANTS

PERMIT / BID

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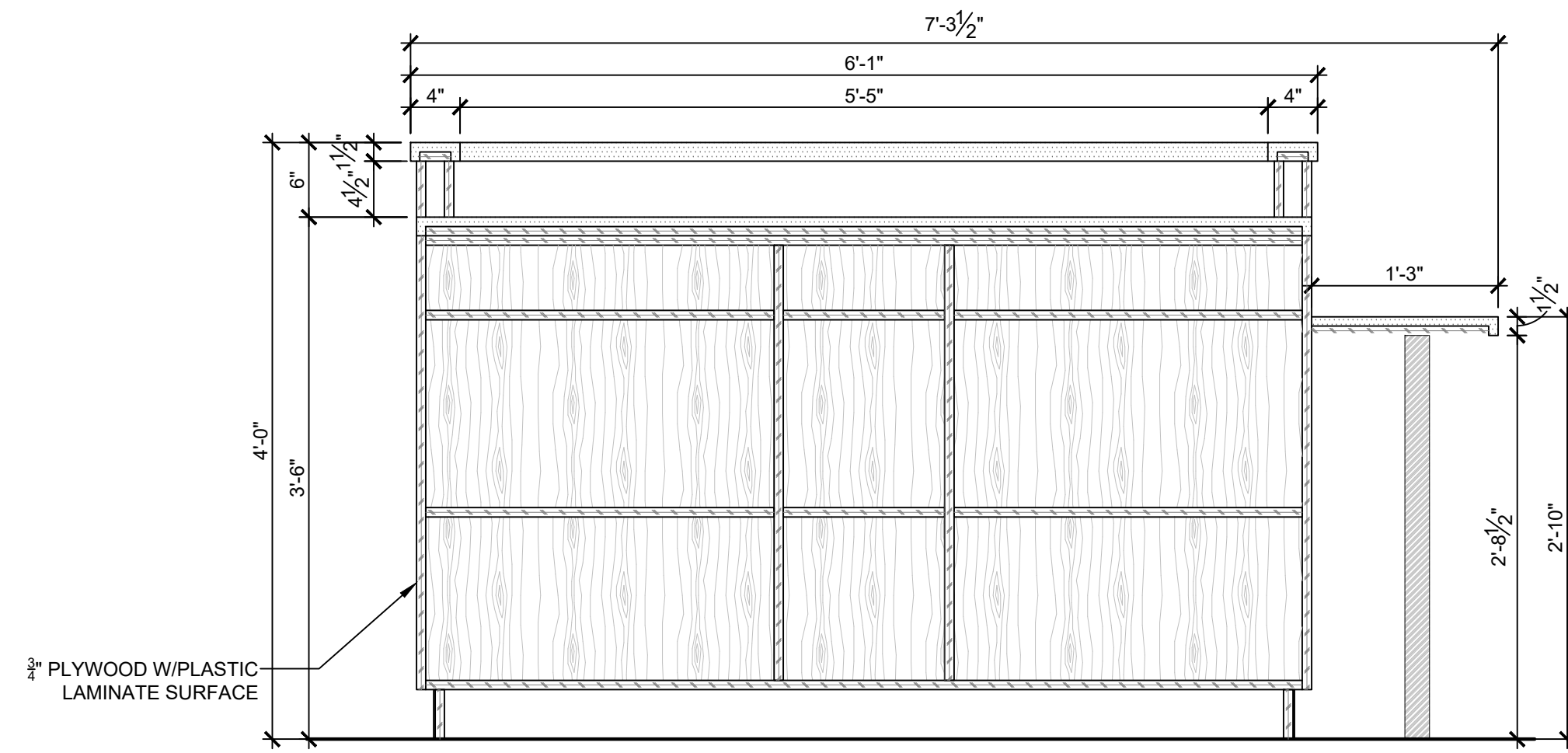
SHEET TITLE & NUMBER

EXTERIOR ELEVATION

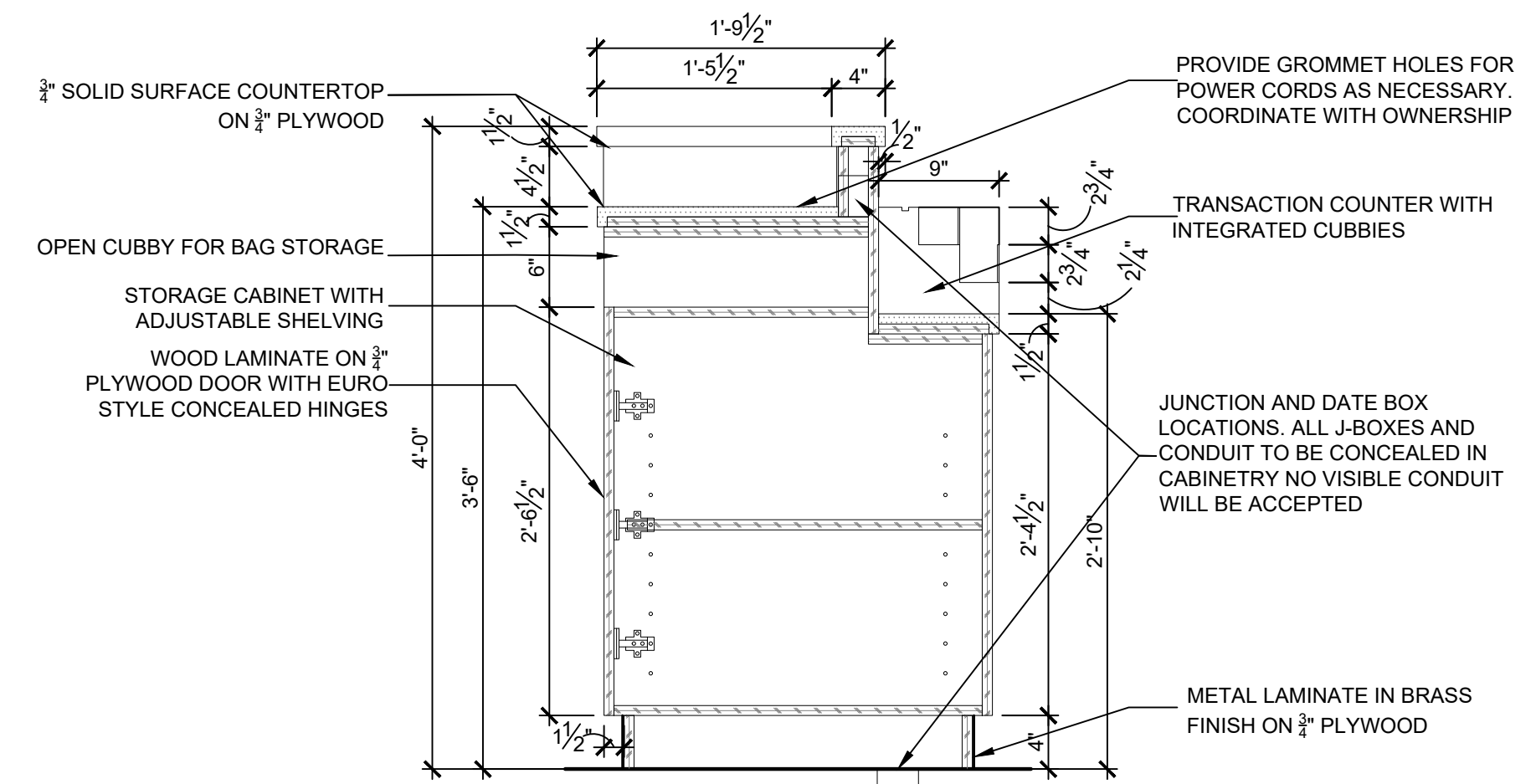
A6-41

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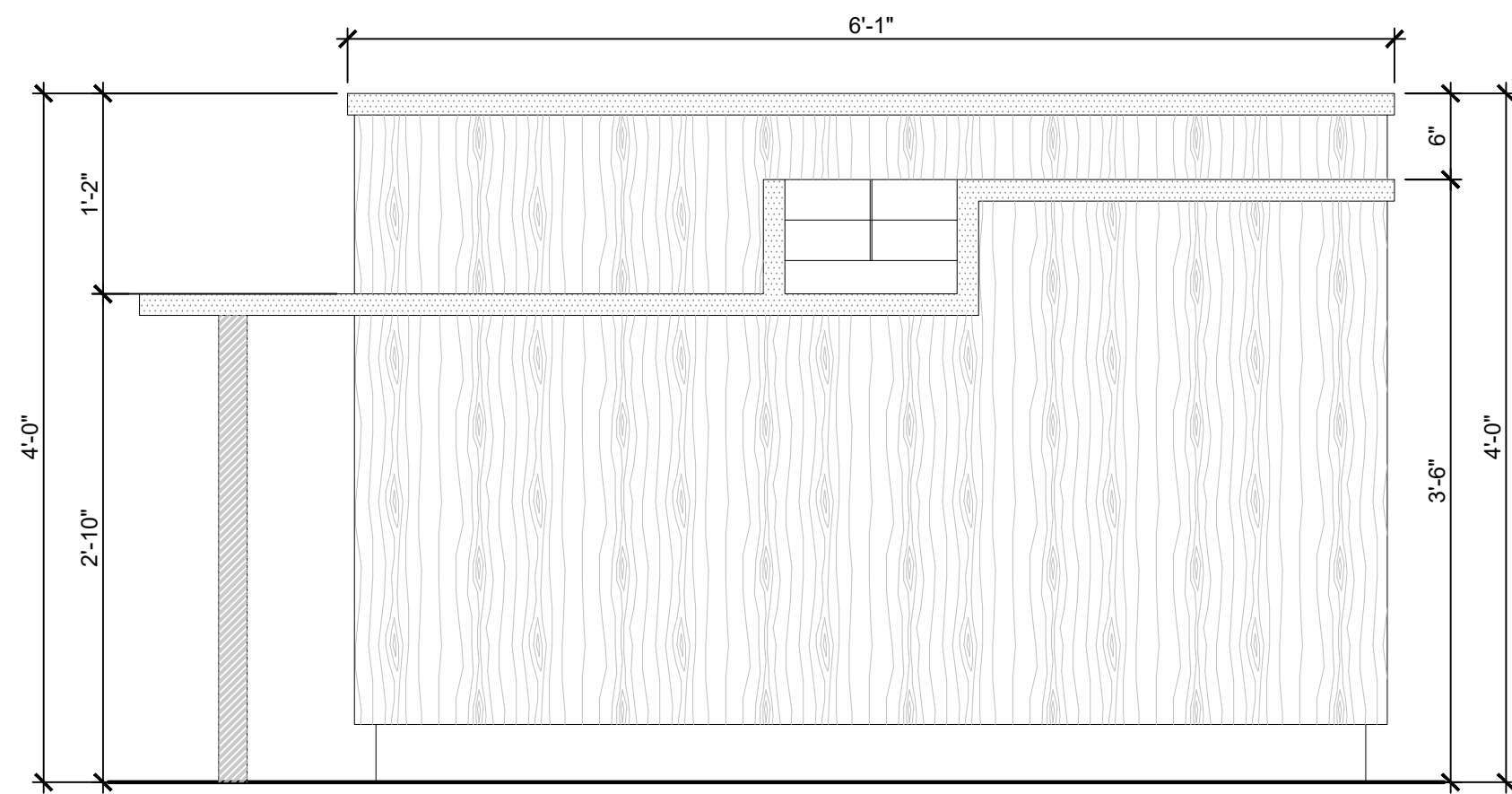
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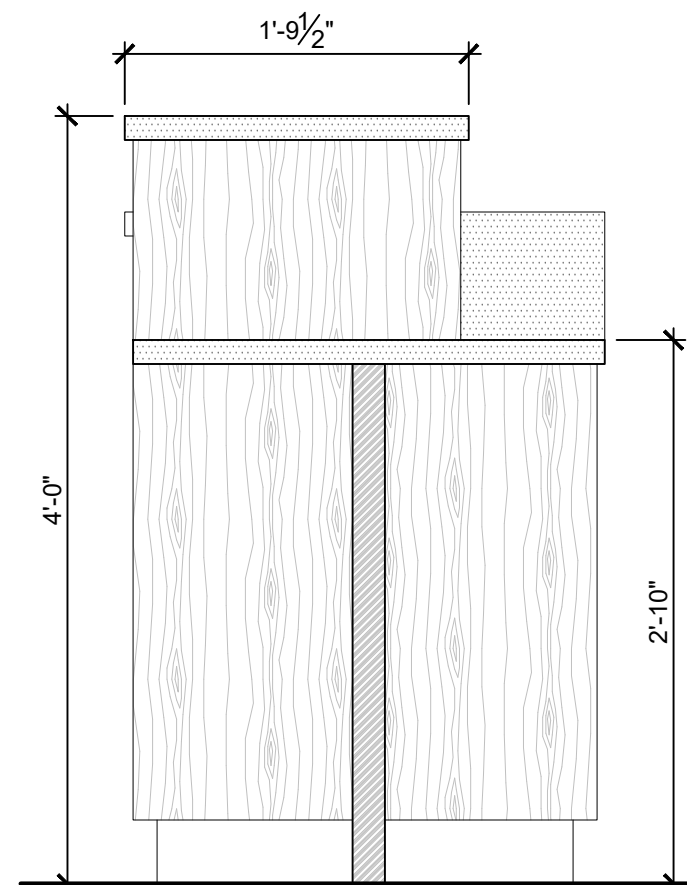
06 RECEPTION DESK SECTION
1" = 1'-0"



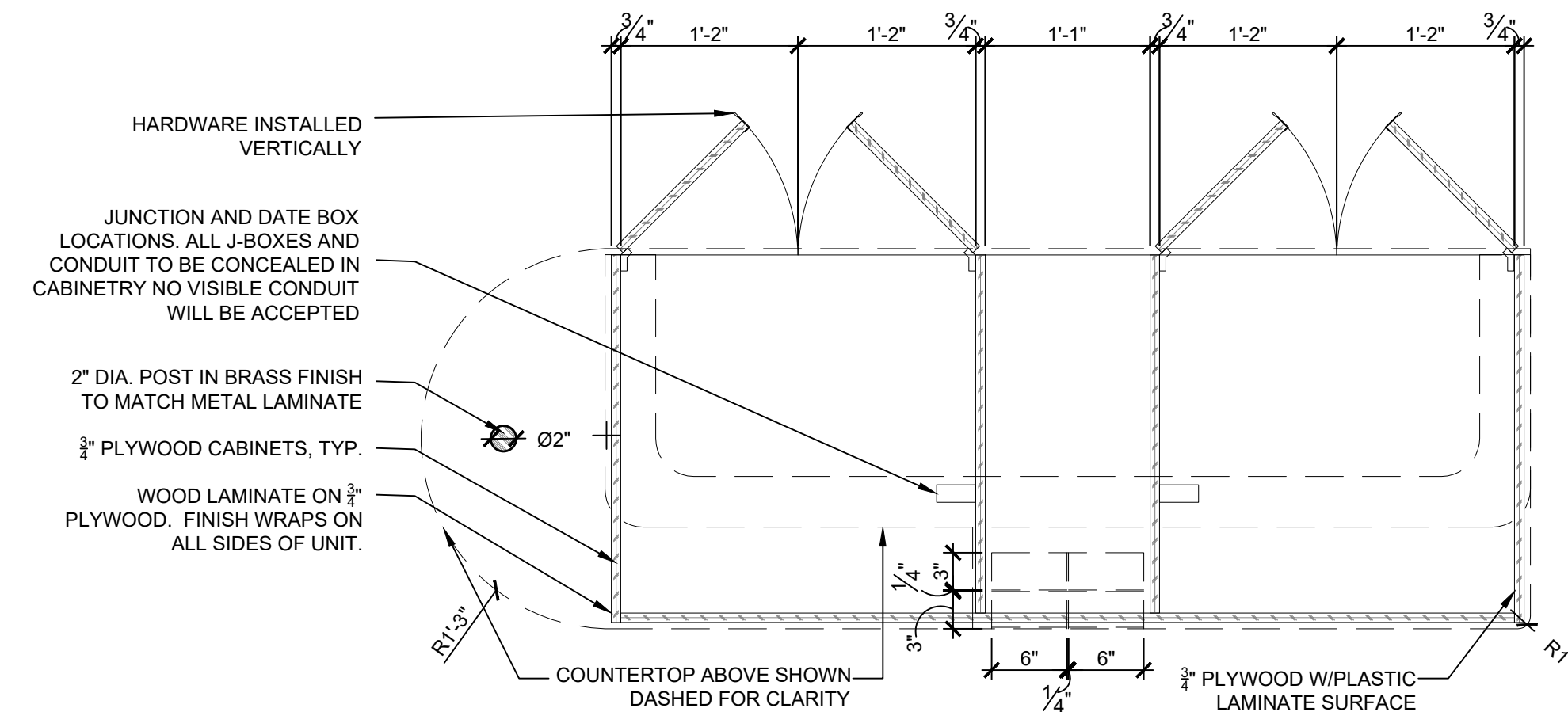
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1" = 1'-0"



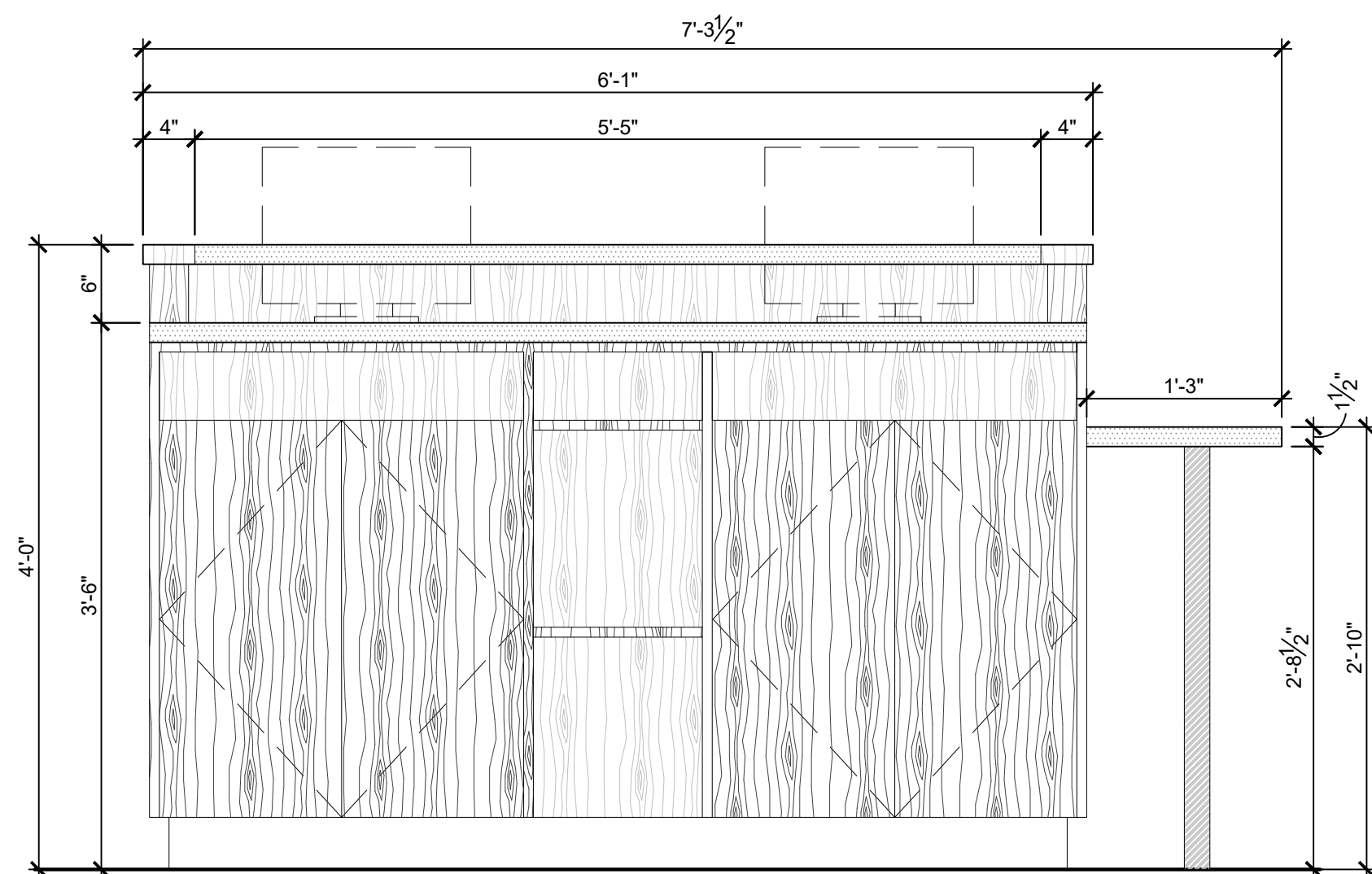
08 RECEPTION DESK ELEVATION
1" = 1'-0"



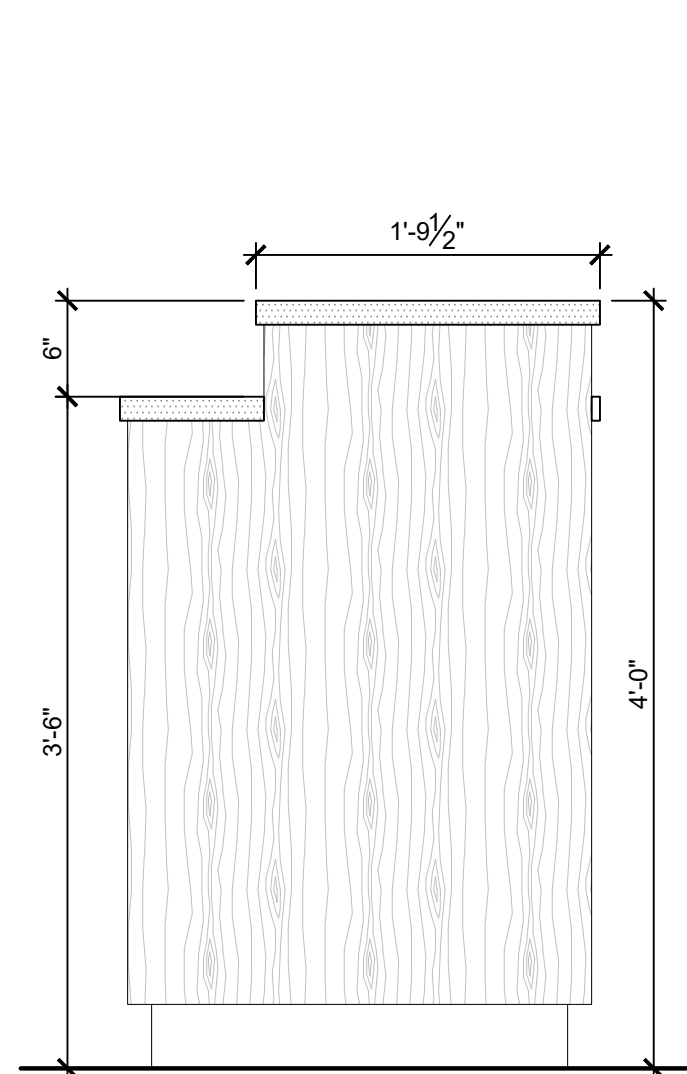
05 RECEPTION DESK ELEVATION
1" = 1'-0"



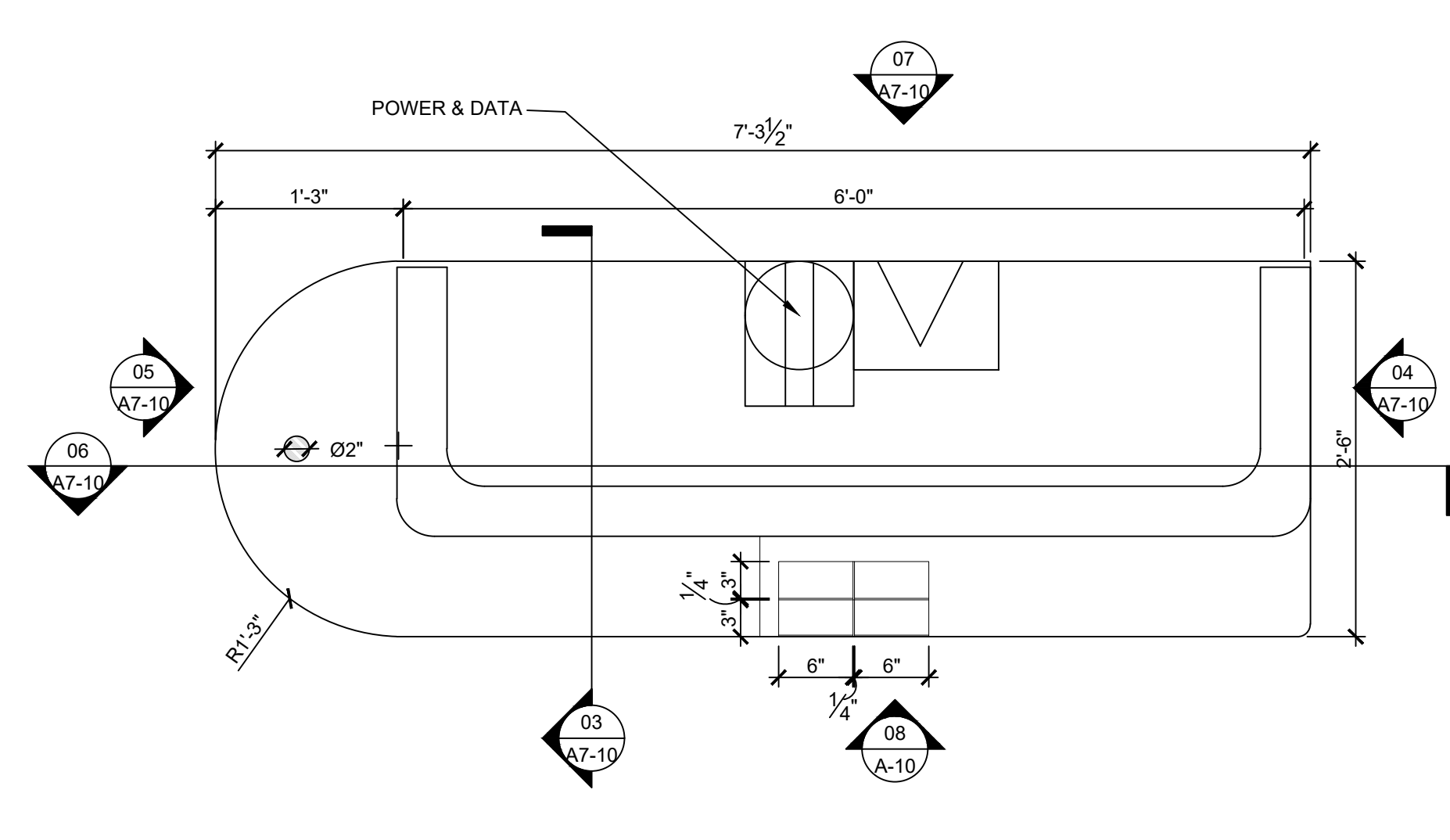
02 UNDER COUNTER RECEPTION DESK SECTION
1" = 1'-0"



07 RECEPTION DESK ELEVATION
1" = 1'-0"



04 RECEPTION DESK ELEVATION
1" = 1'-0"



01 ENLARGE RECEPTION DESK COUNTER TOP PLAN
1" = 1'-0"

HEYDAY
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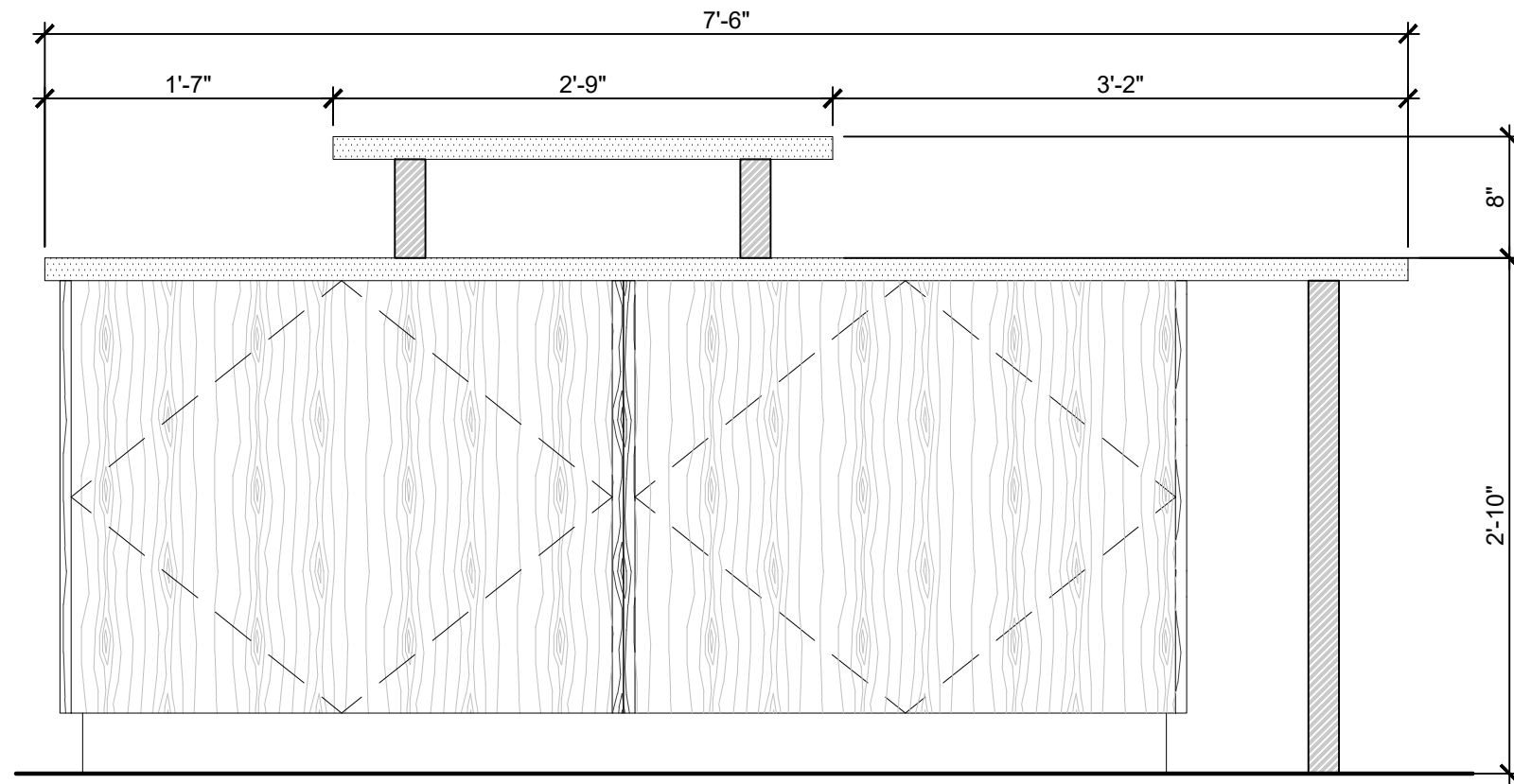
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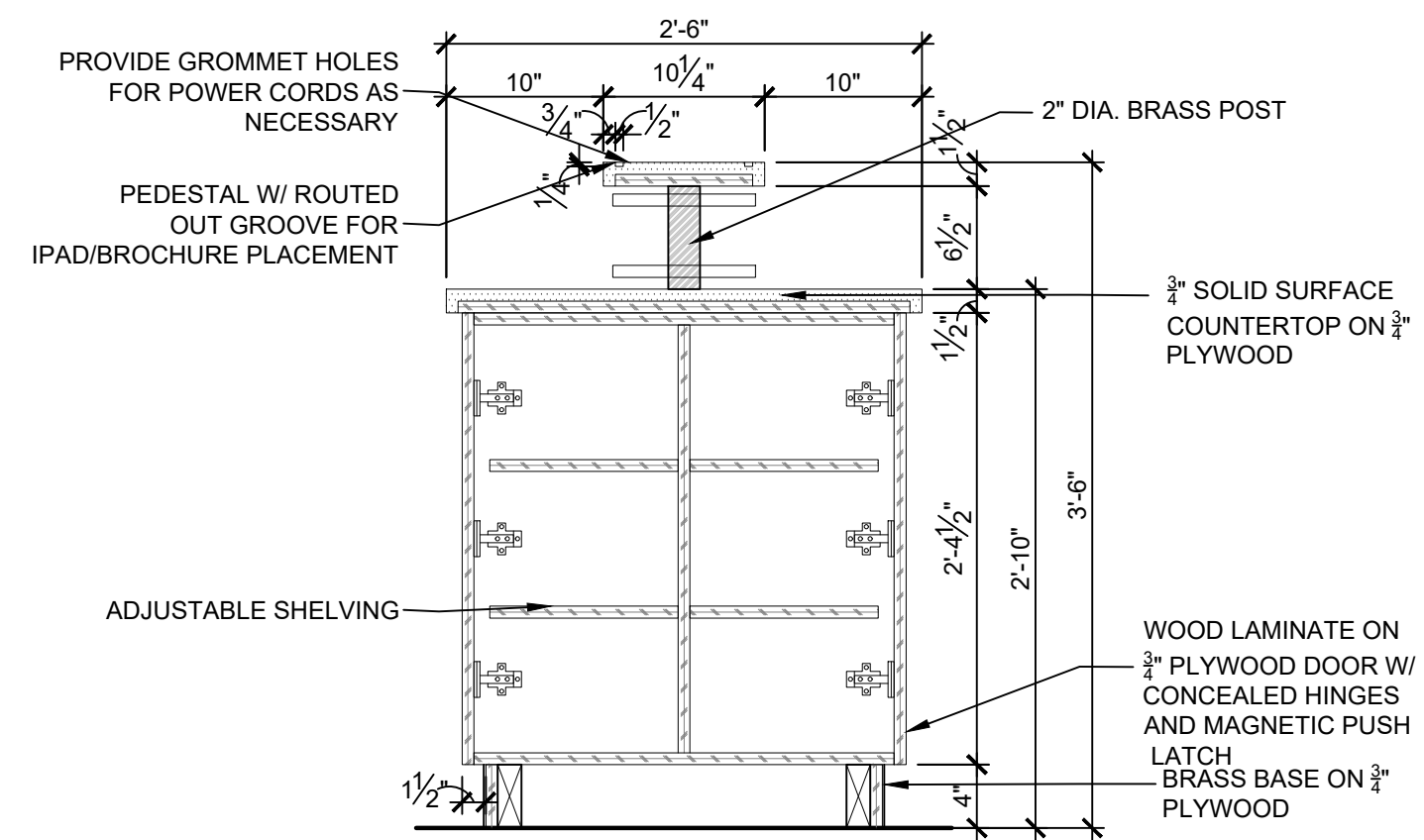
DETAILS

A7-10

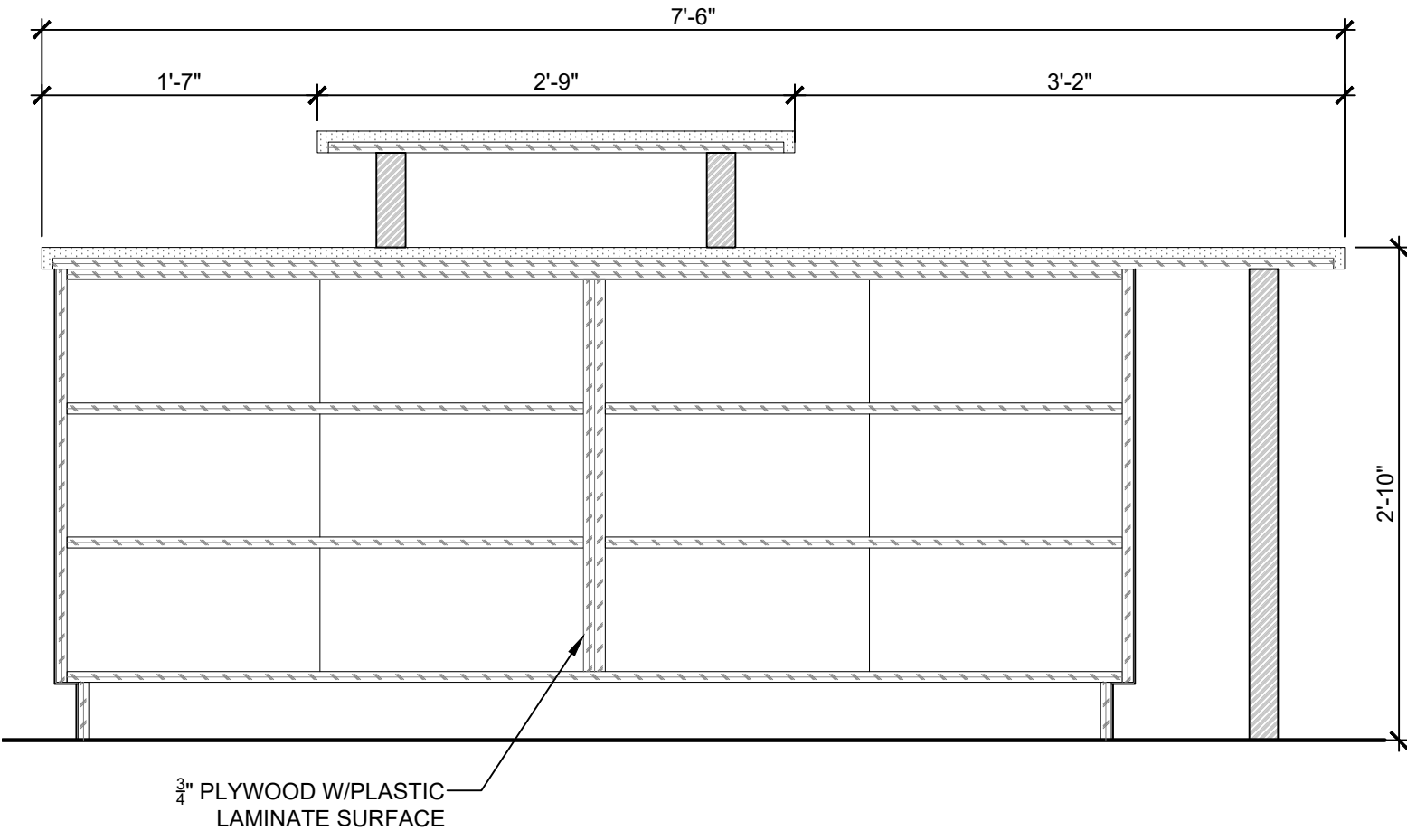
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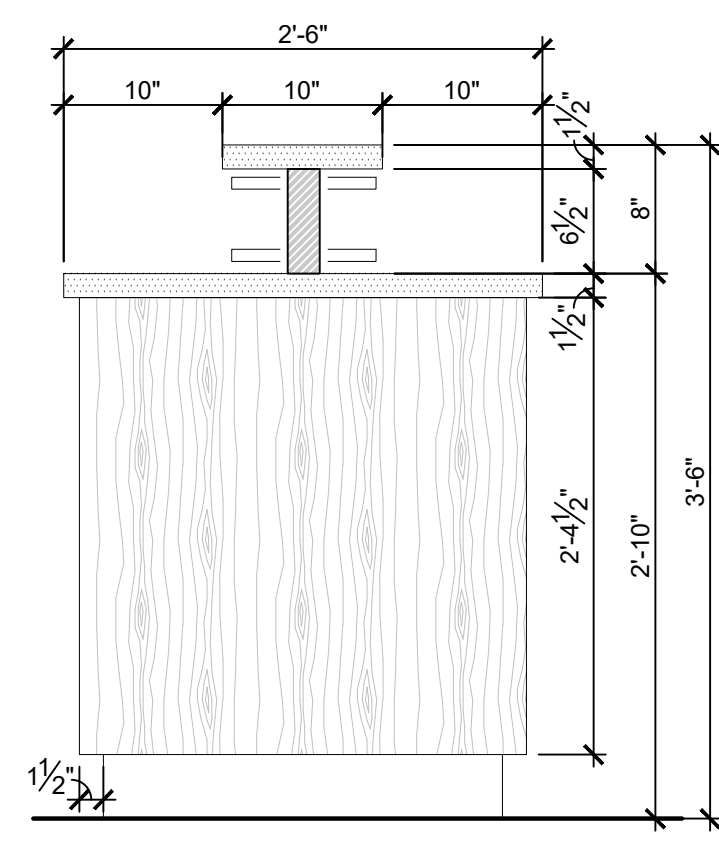
06 ISLAND RETAIL DISPLAY ELEVATION
1" = 1'-0"



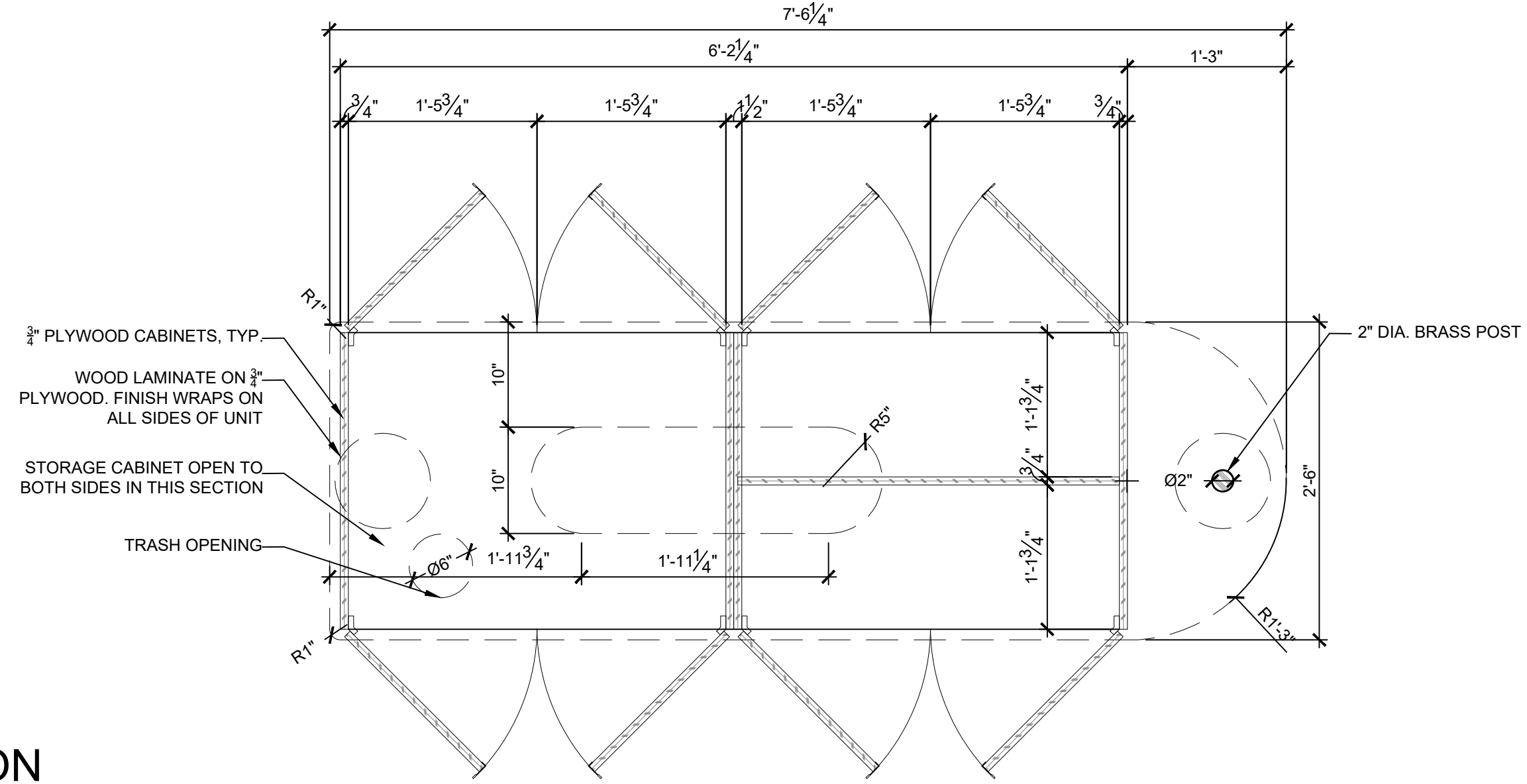
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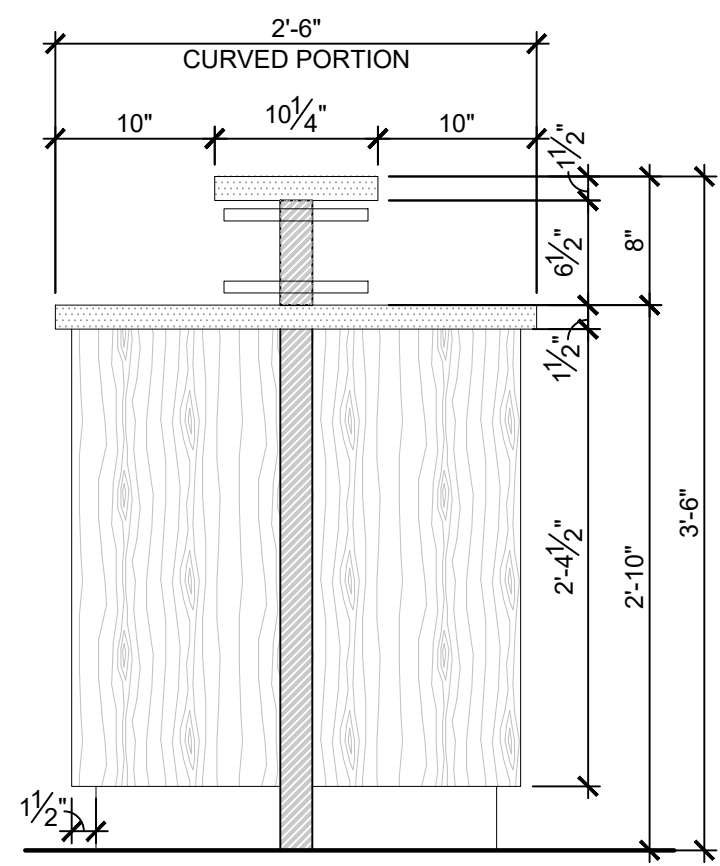
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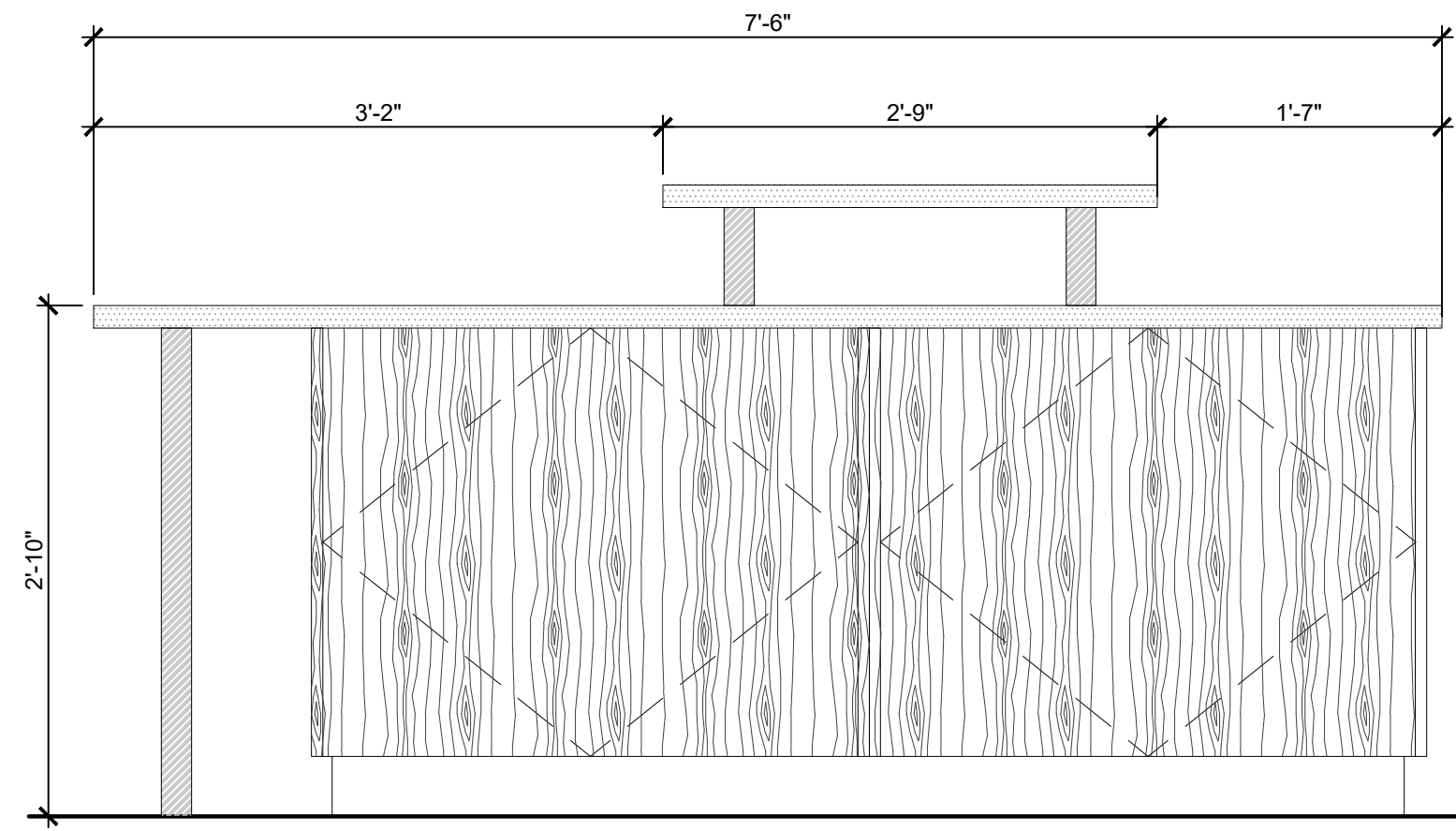
05 ISLAND RETAIL DISPLAY ELEVATION
1" = 1'-0"



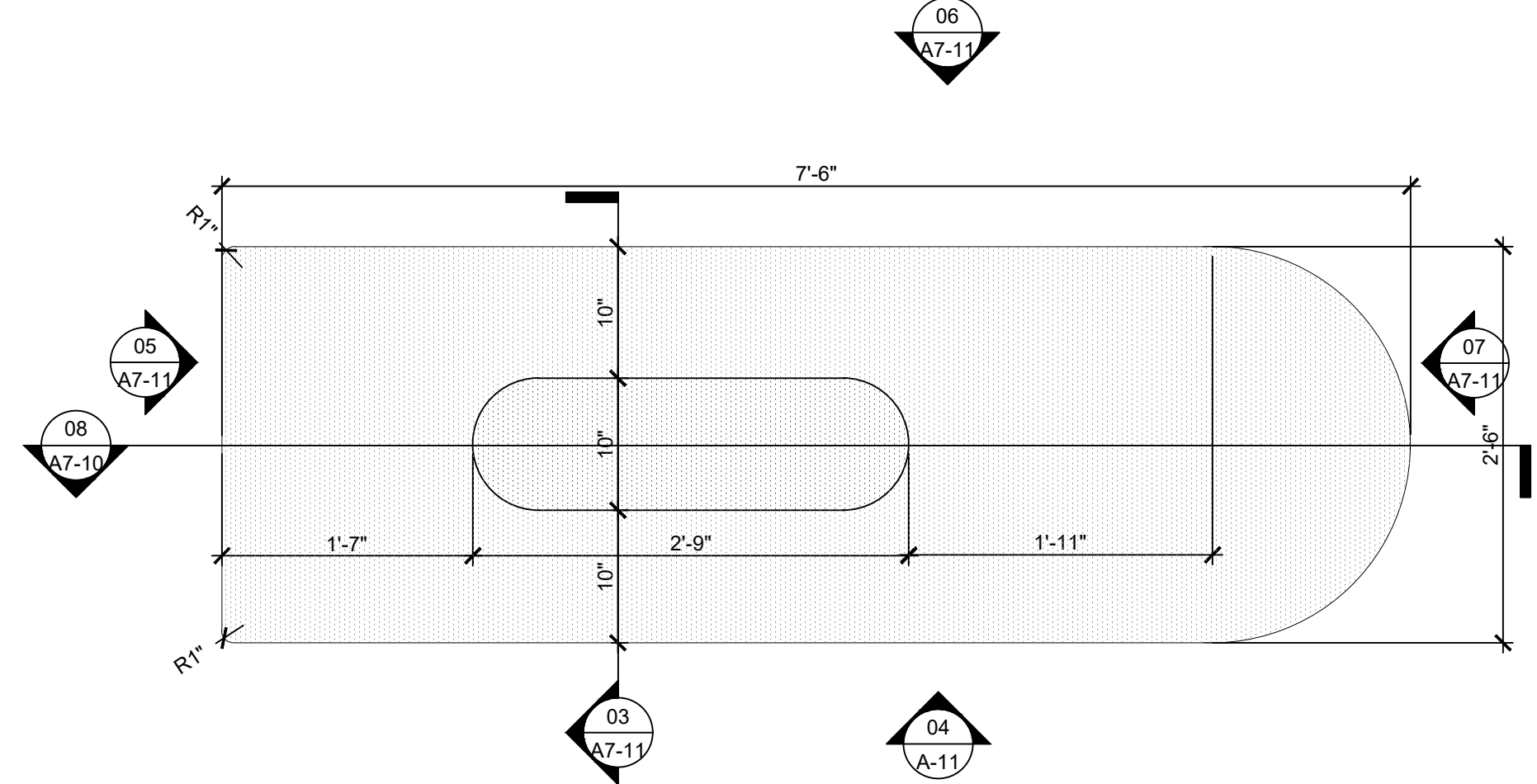
02 UNDER COUNTER ISLAND RETAIL DISPLAY COUNTER PLAN
1" = 1'-0"



07 ISLAND RETAIL DISPLAY SECTION
1" = 1'-0"



04 ISLAND RETAIL DISPLAY SECTION
1" = 1'-0"



01 ENLARGE ISLAND RETAIL DISPLAY COUNTER PLAN
1" = 1'-0"

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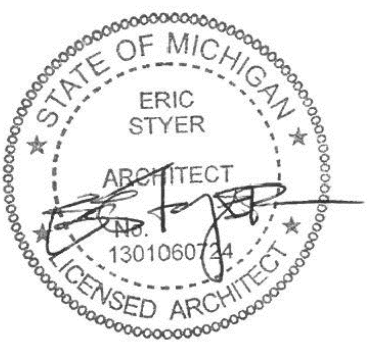


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Project Number: 22-087	Approved By: XX	Date: 05/12/2022
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PERMIT / BID
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A7-11
 DETAILS

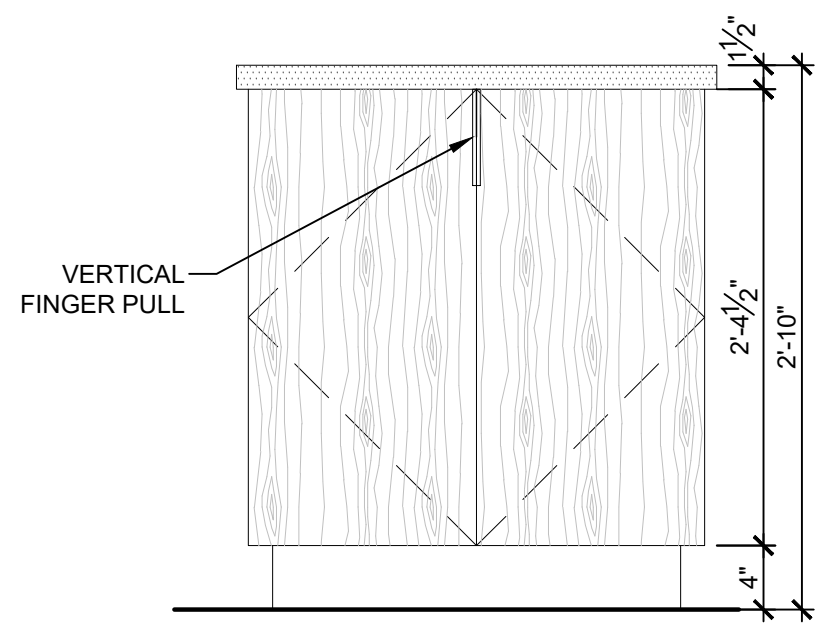
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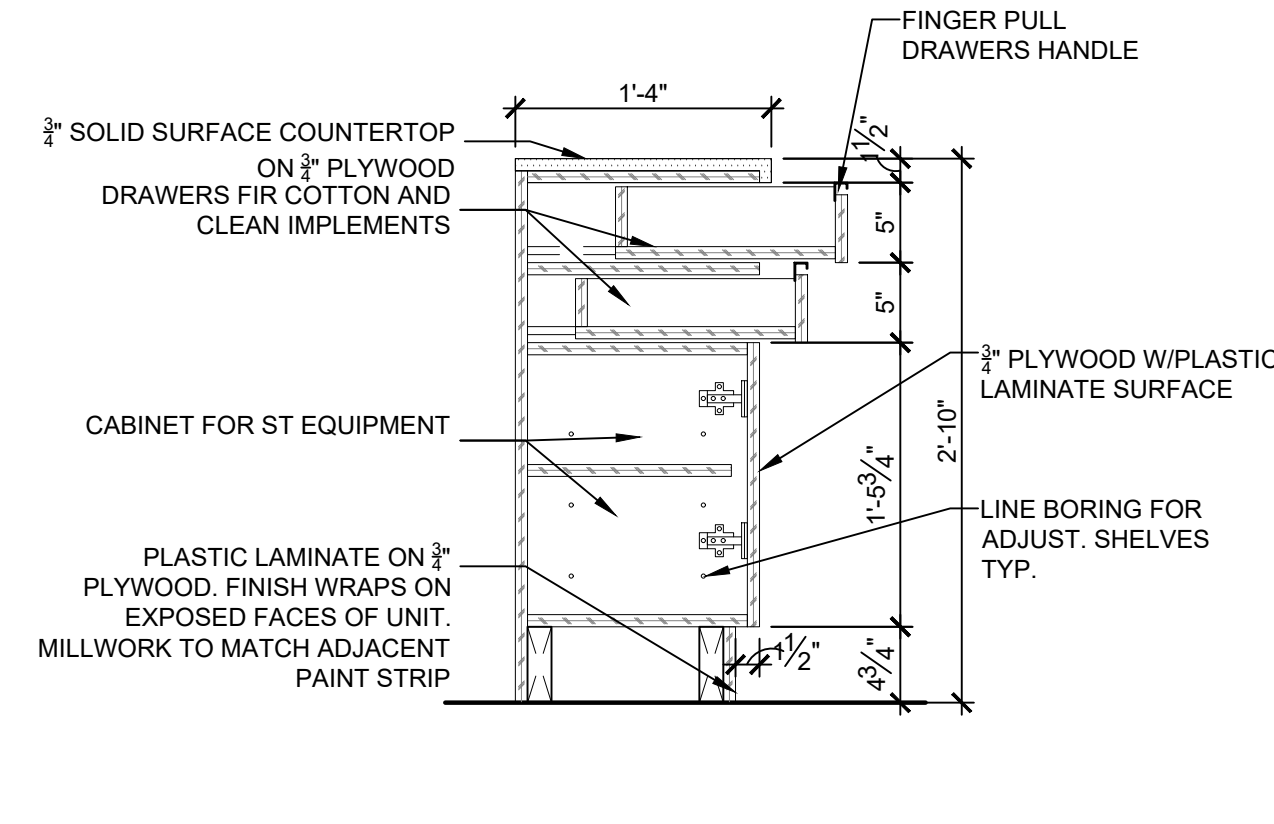
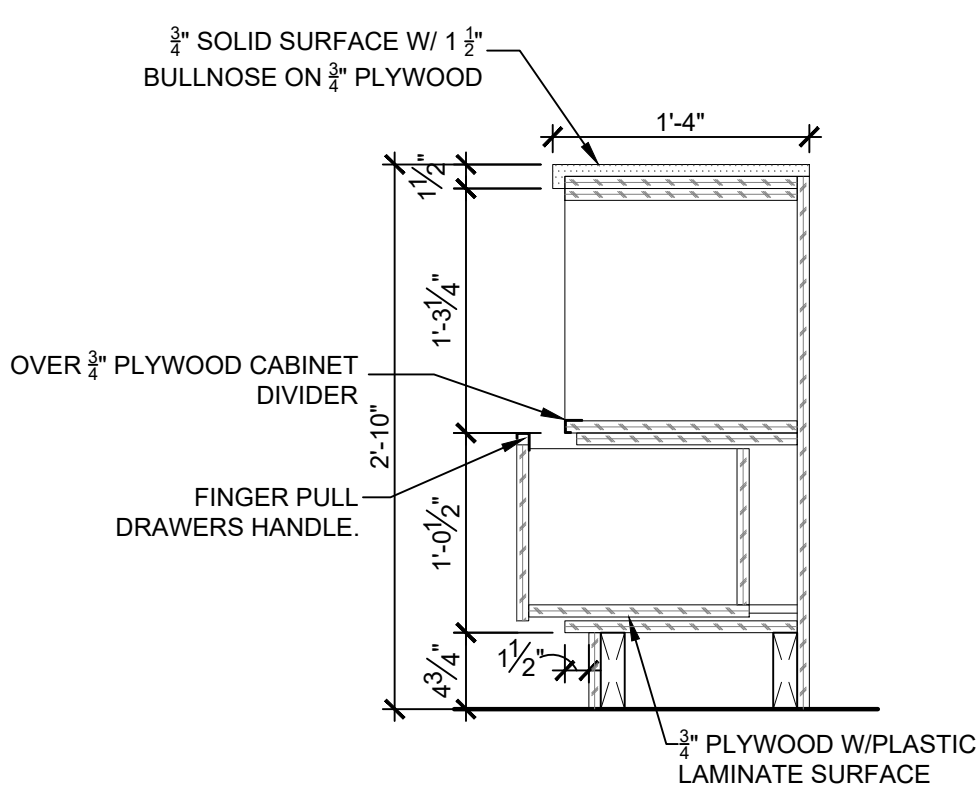
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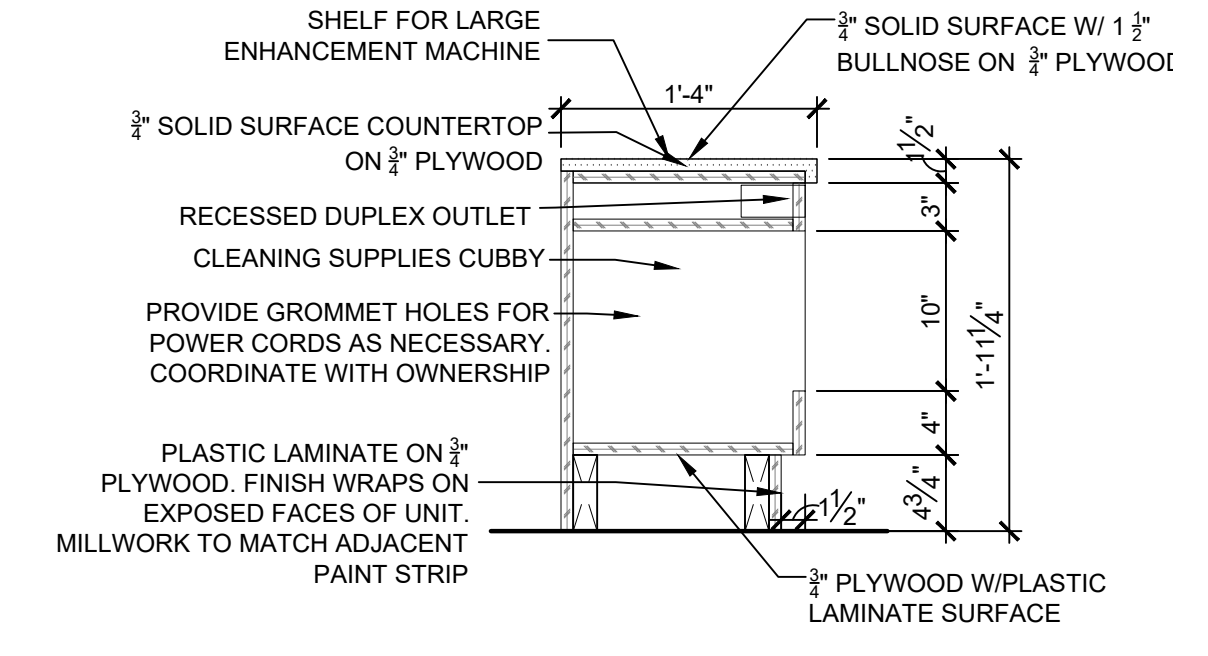
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A7-12
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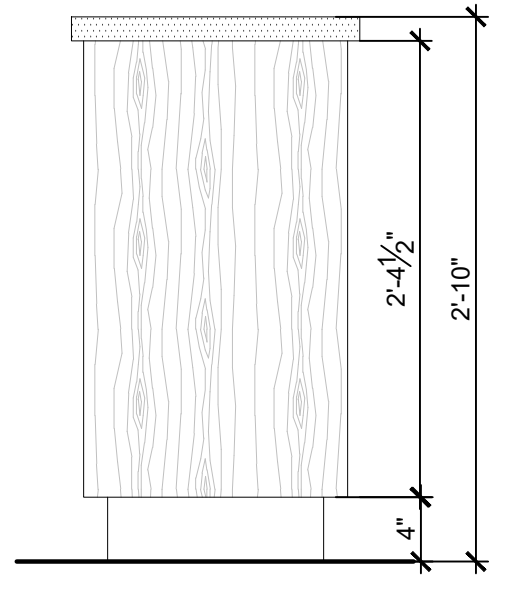
11 TOILET CABINET ELEVATION
1" = 1'-0"



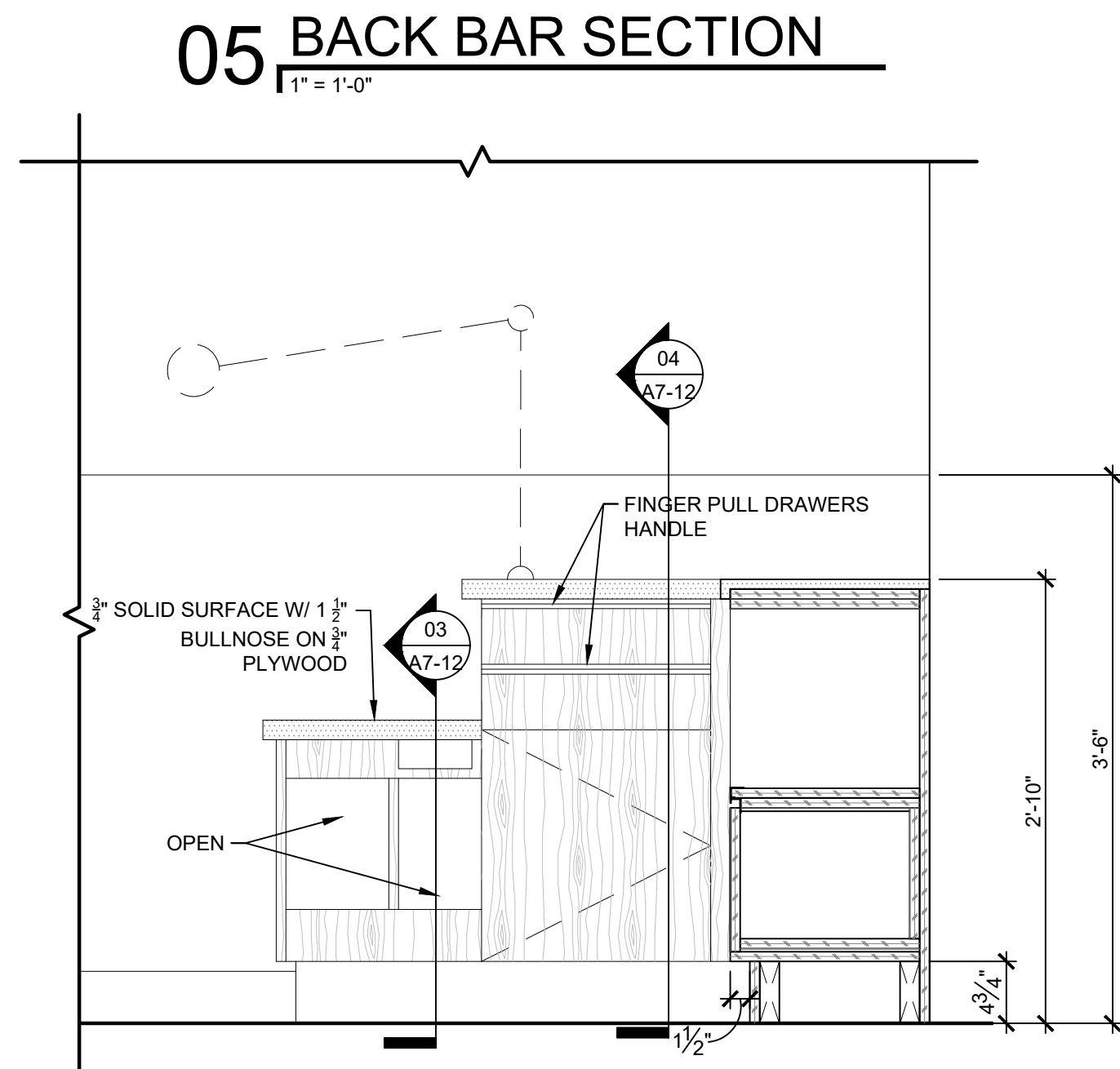
04 BACK BAR SECTION
1" = 1'-0"



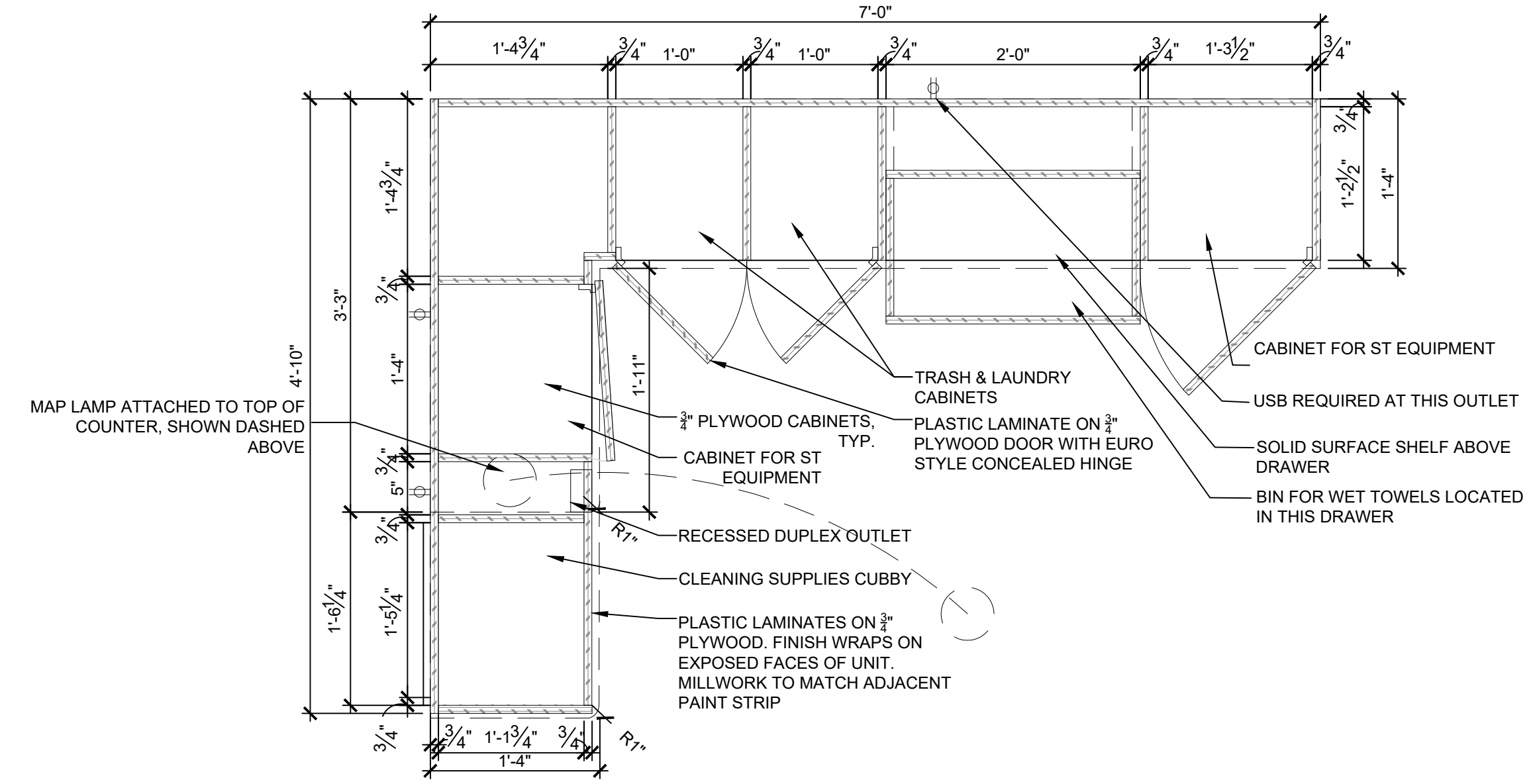
03 BACK BAR SECTION
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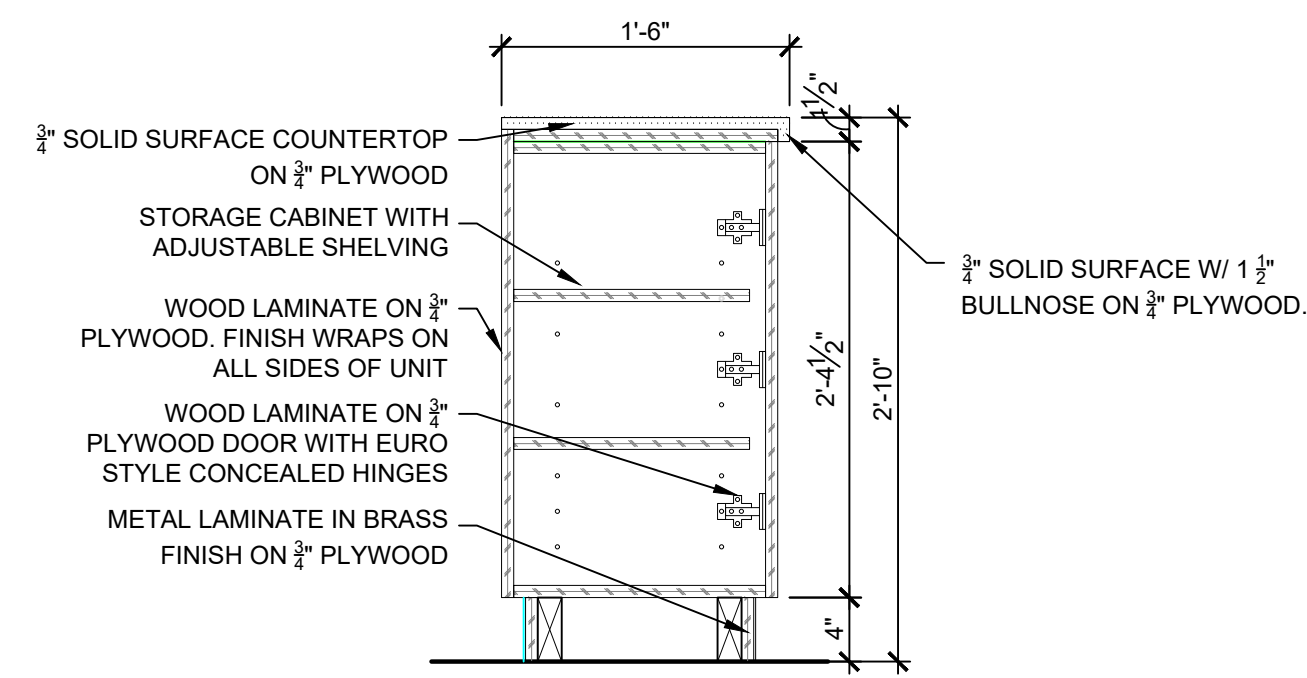
10 TOILET CABINET ELEVATION
1" = 1'-0"



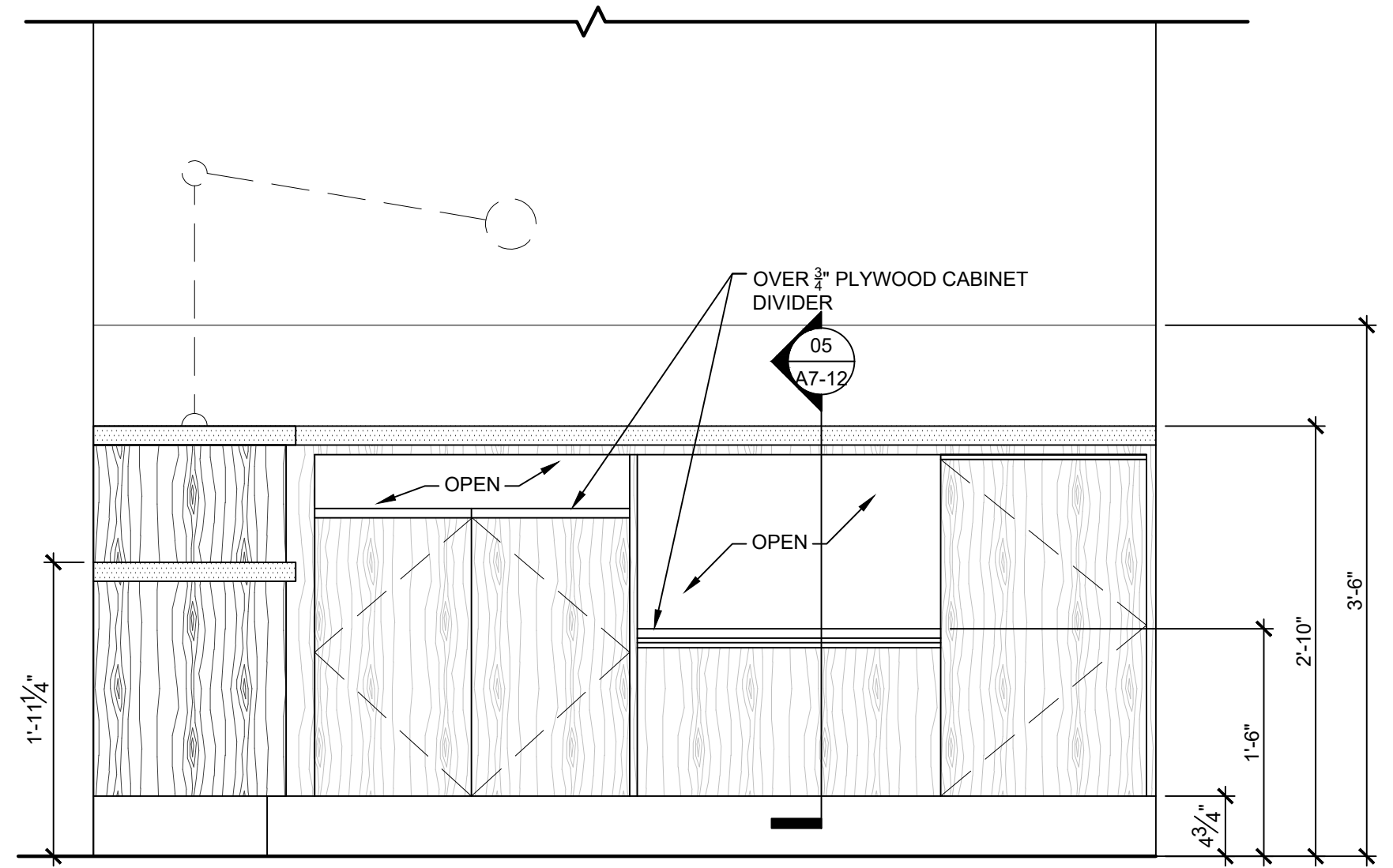
07 BACK BAR ELEVATION
1" = 1'-0"



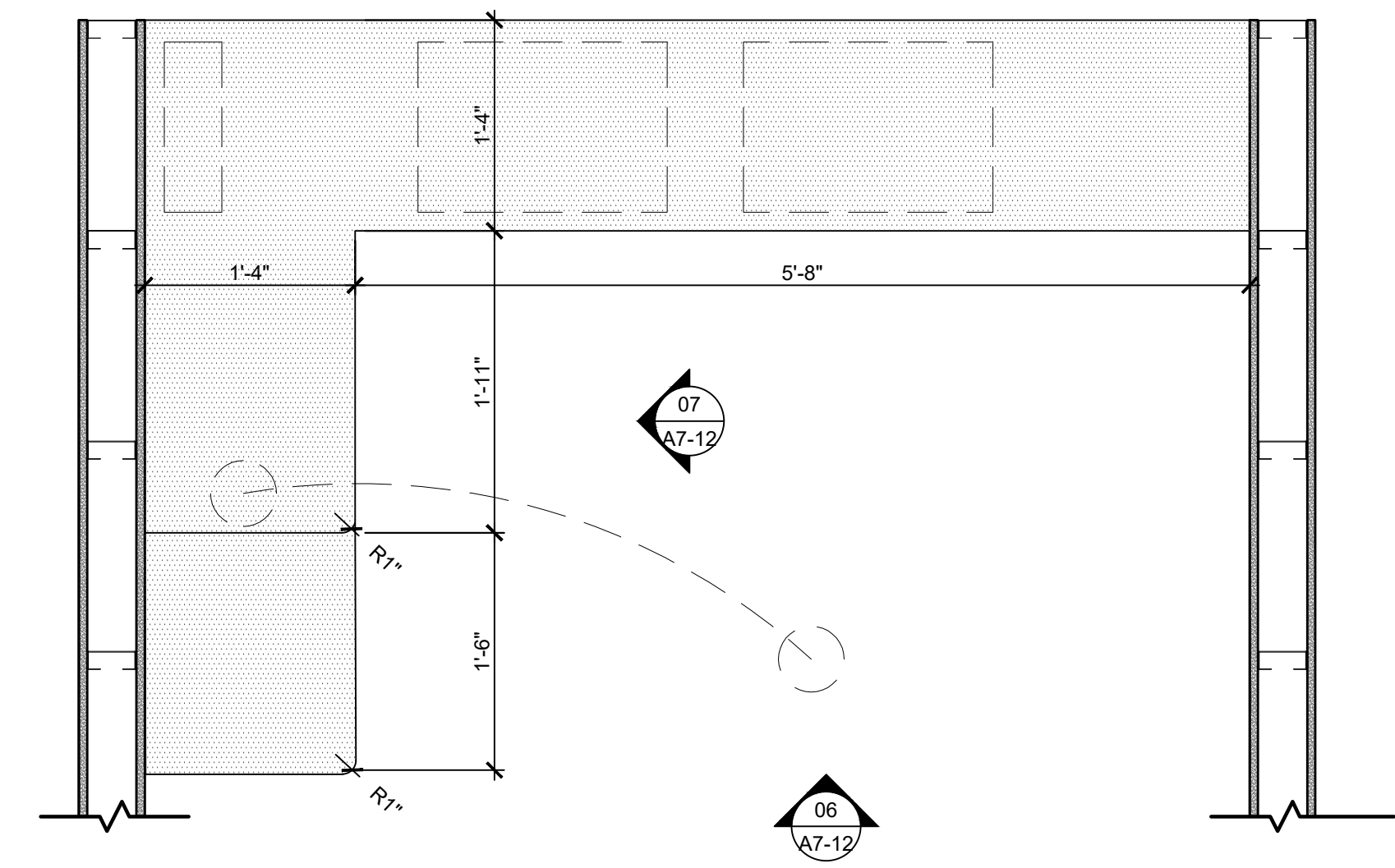
02 UNDERCOUNTER BACK BAR SECTION
1" = 1'-0"



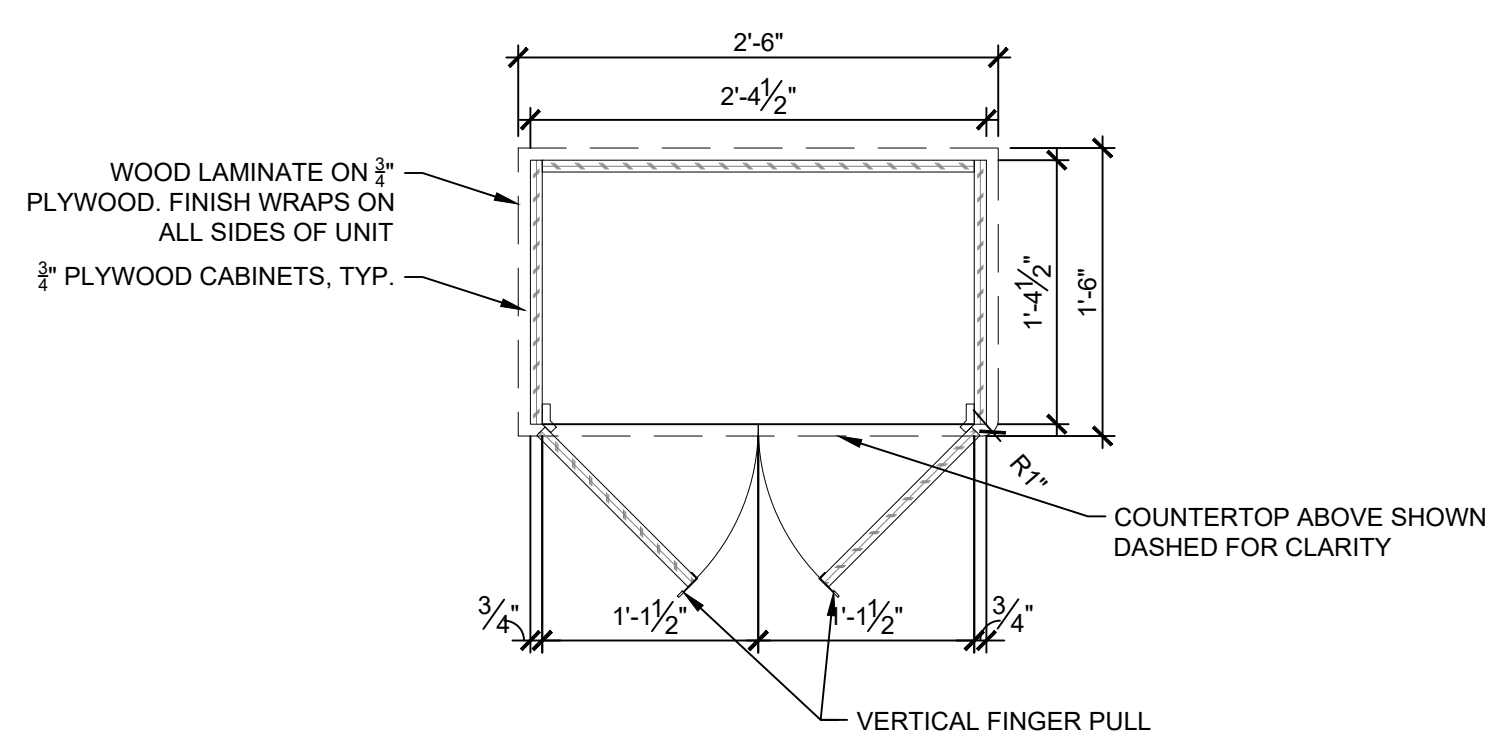
09 TOILET CABINET SECTION
1" = 1'-0"



06 BACK BAR ELEVATION
1" = 1'-0"



01 ENLARGE BACK BAR COUNTER PLAN
1" = 1'-0"

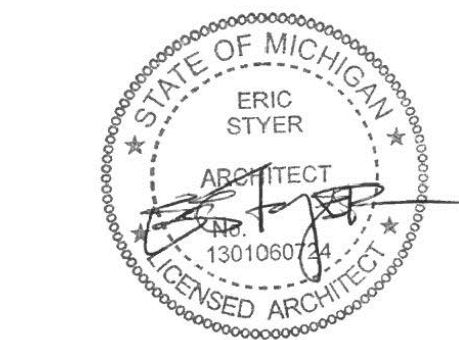


08 TOILET CABINET UNDERCOUNTER SECTION
1" = 1'-0"

HEYDAY

PROJECT: **HEYDAY - ANN ARBOR- CRANBROOK VILLAGE**

CLIENT: **890 W. EISENHOWER PKWY ANN ARBOR, MI 48103**



ARCHITECT: **DXU ARCHITECTS**
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CONSULTANTS: **CASE Engineering Inc.**
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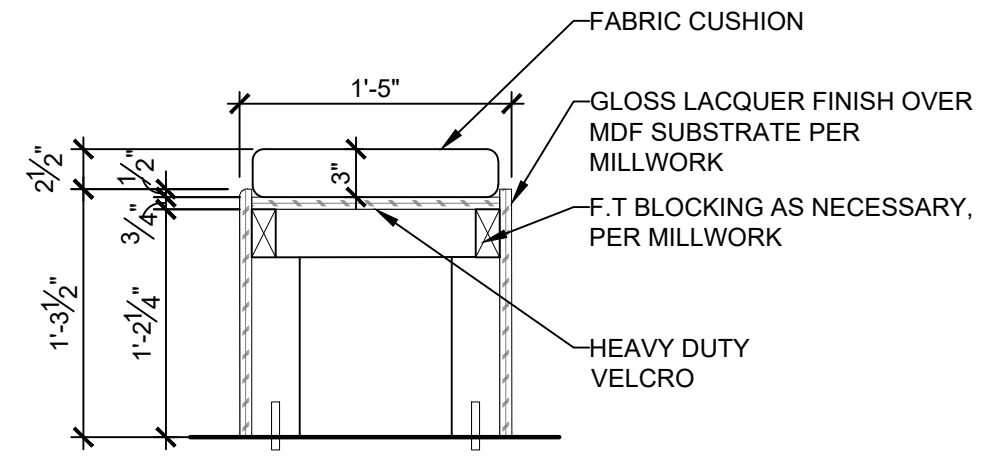
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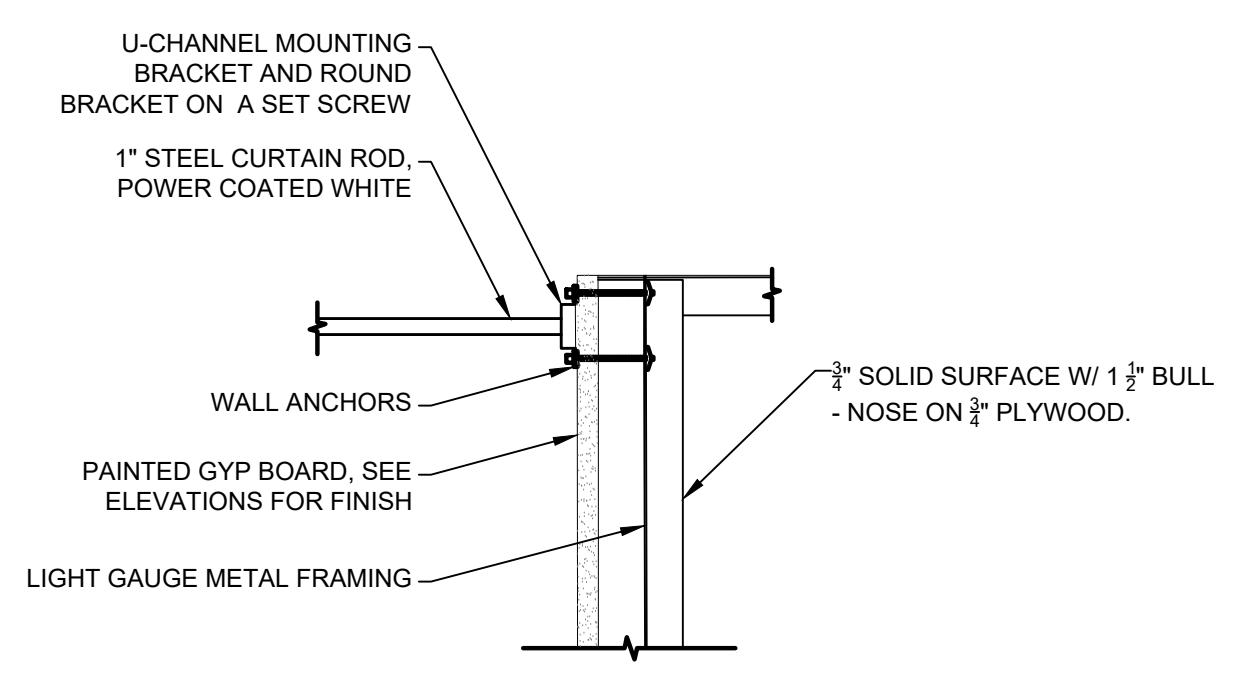
DETAILS

A7-13

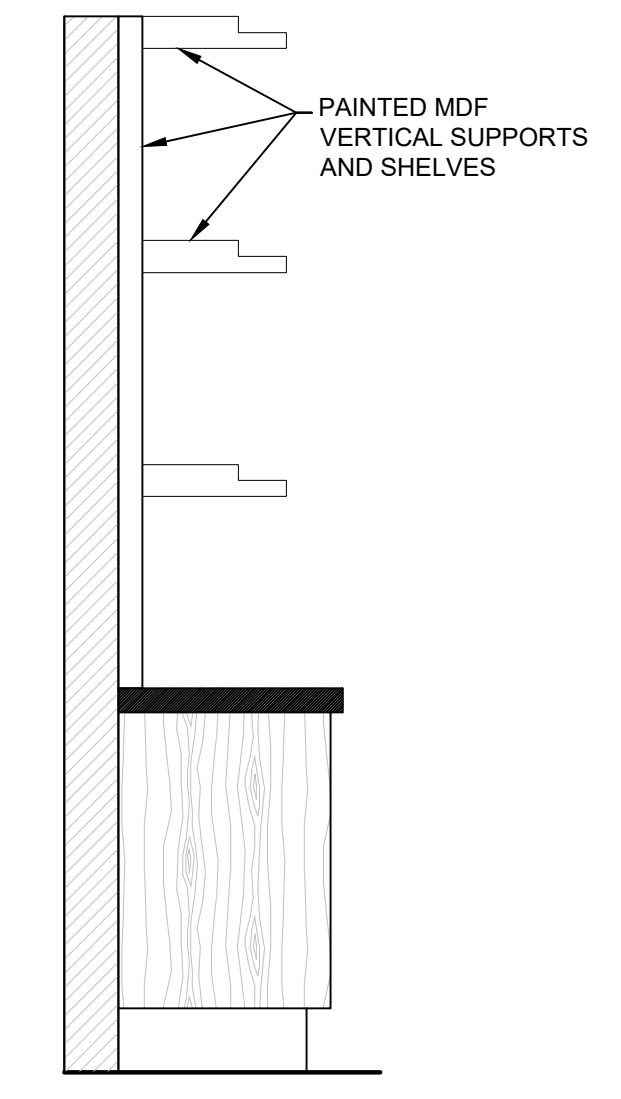
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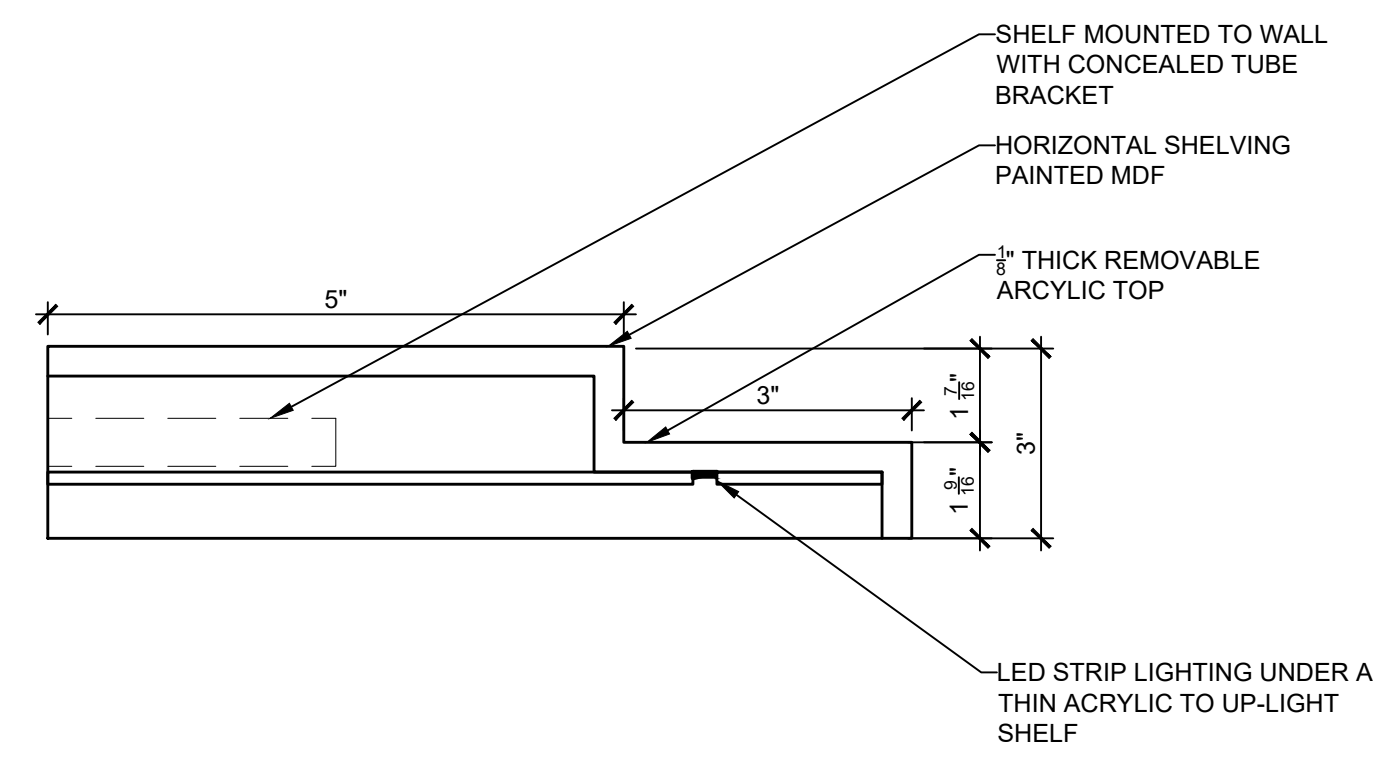
07 BENCH DETAIL
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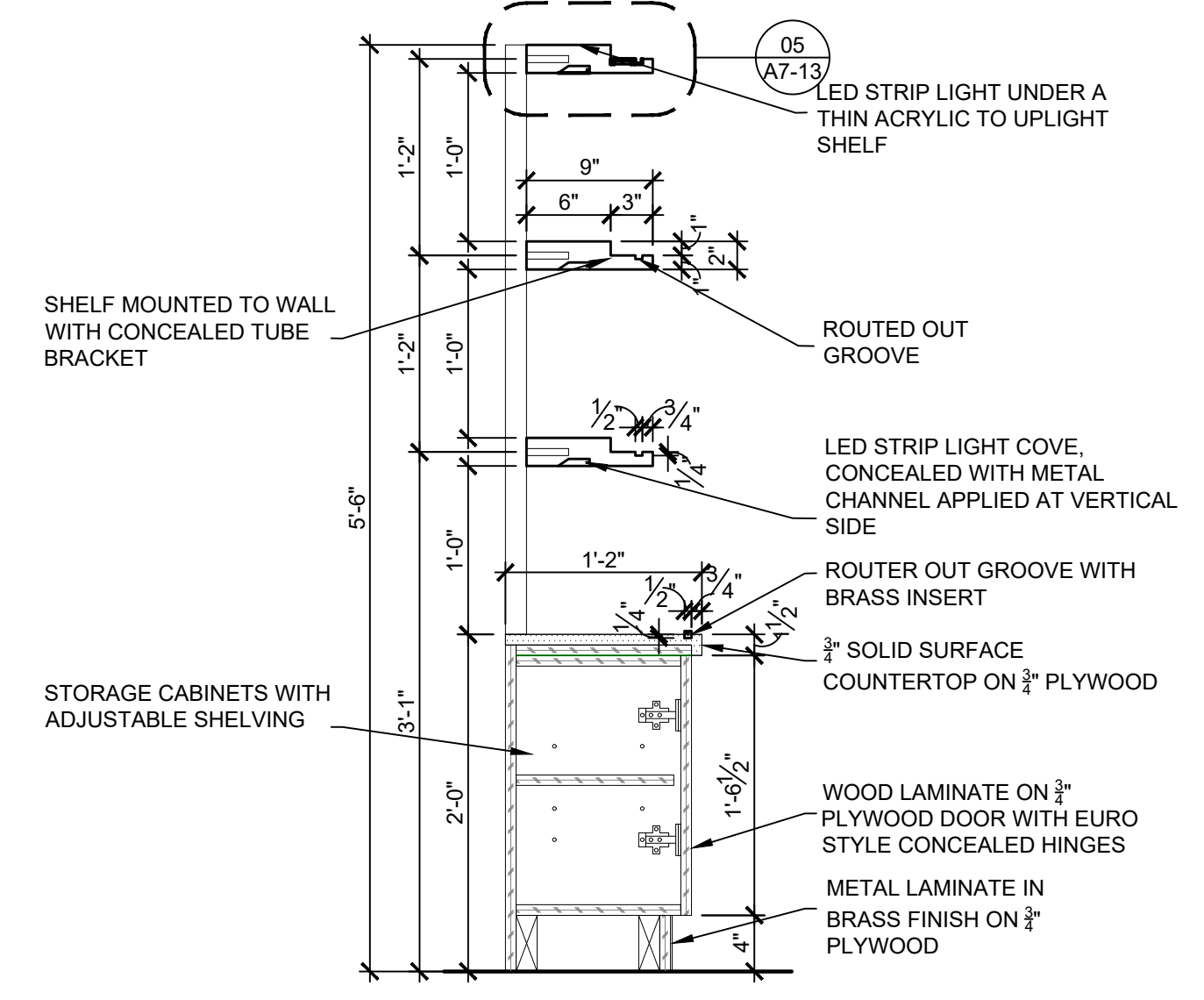
06 DRAPERY DETAIL
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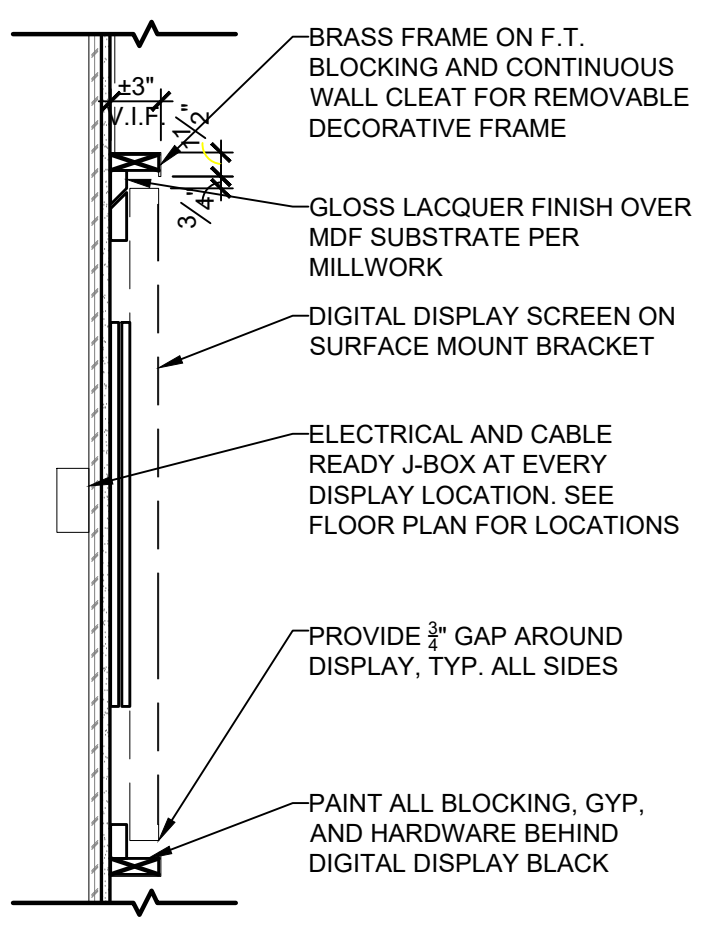
03 RETAIL SHELF ELEVATION
 1" = 1'-0"



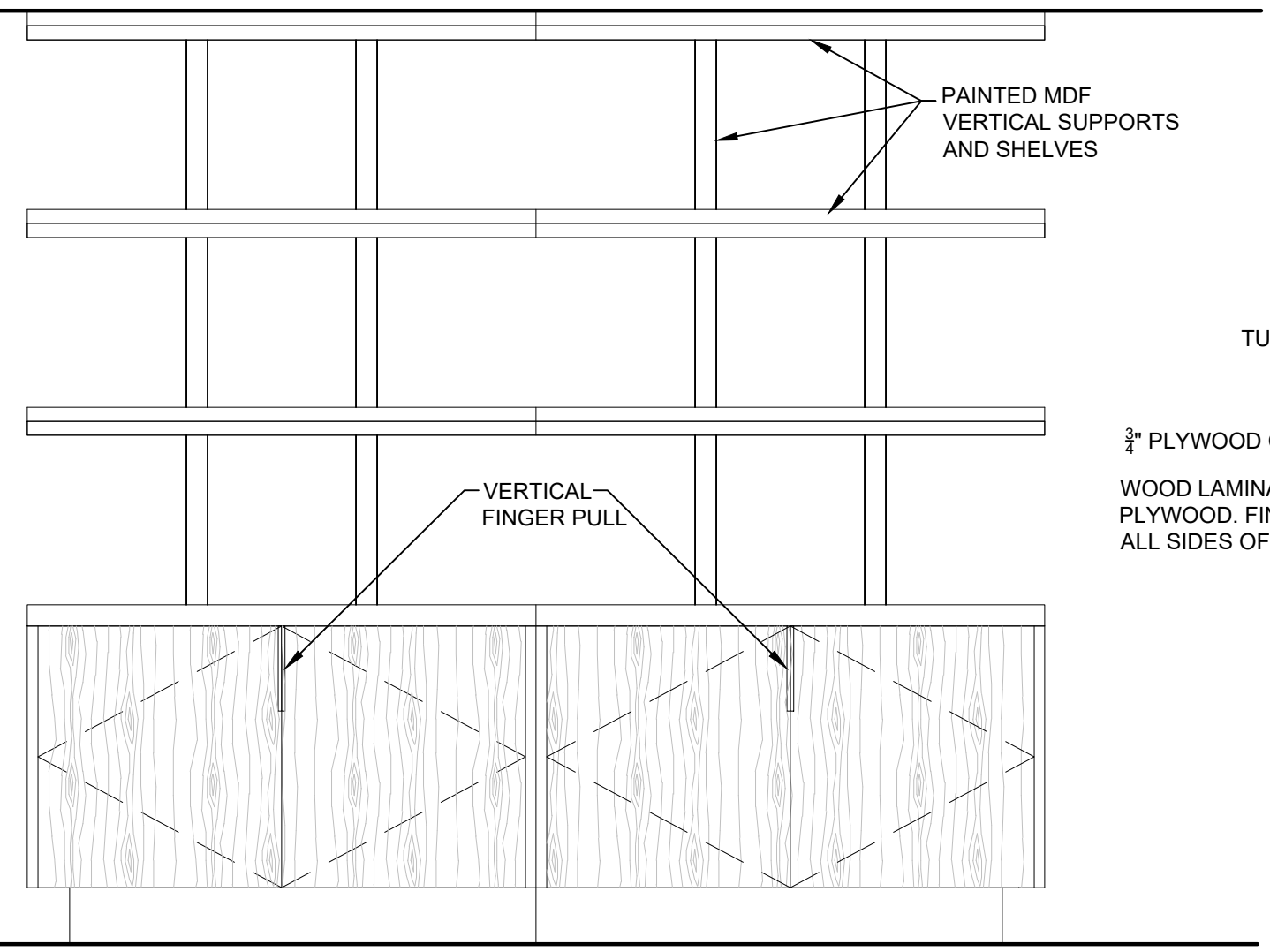
05 ENLARGED RETAIL SHELF DETAIL
 1" = 1'-0"



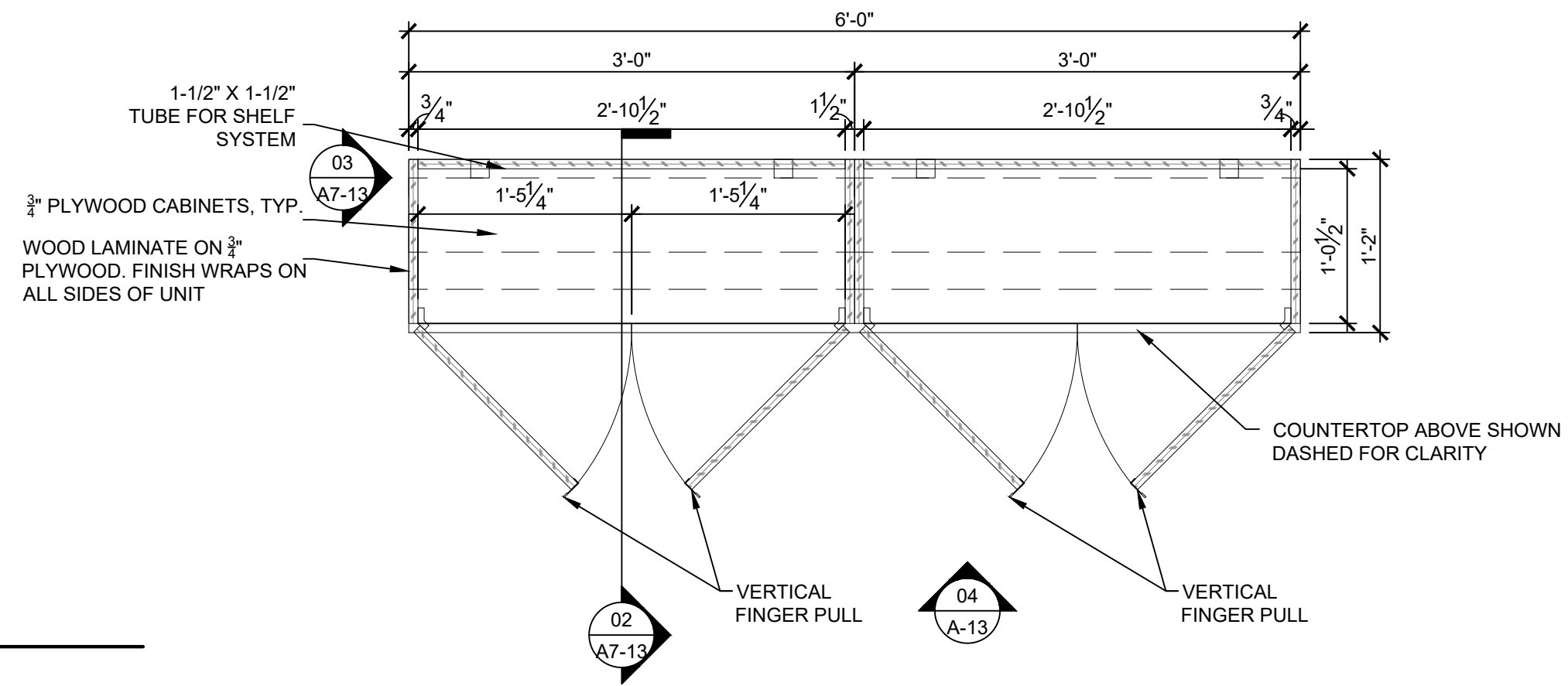
02 RETAIL SHELF SECTION
 1" = 1'-0"



08 DIGITAL DISPLAY DETAIL
 1" = 1'-0"



04 RETAIL SELF ELEVATION
 1" = 1'-0"



01 RETAIL SHELF UNDERCOUNTER SECTION
 1" = 1'-0"

CLIENT

PROJECT

SEAL

ARCHITECT

SHEET TITLE & NUMBER

HEYDAY
 HEYDAY - ANN ARBOR- CRANBROOK VILLAGE
 890 W. EISENHOWER PKWY
 ANN ARBOR, MI 48103



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Project Number: 22-087	Approved By: XX	Date: 05/12/2022
Drawn By:	Issue	No. 06/09/2022
No. 95% REVIEW	ISSUED FOR PERMIT & BID	

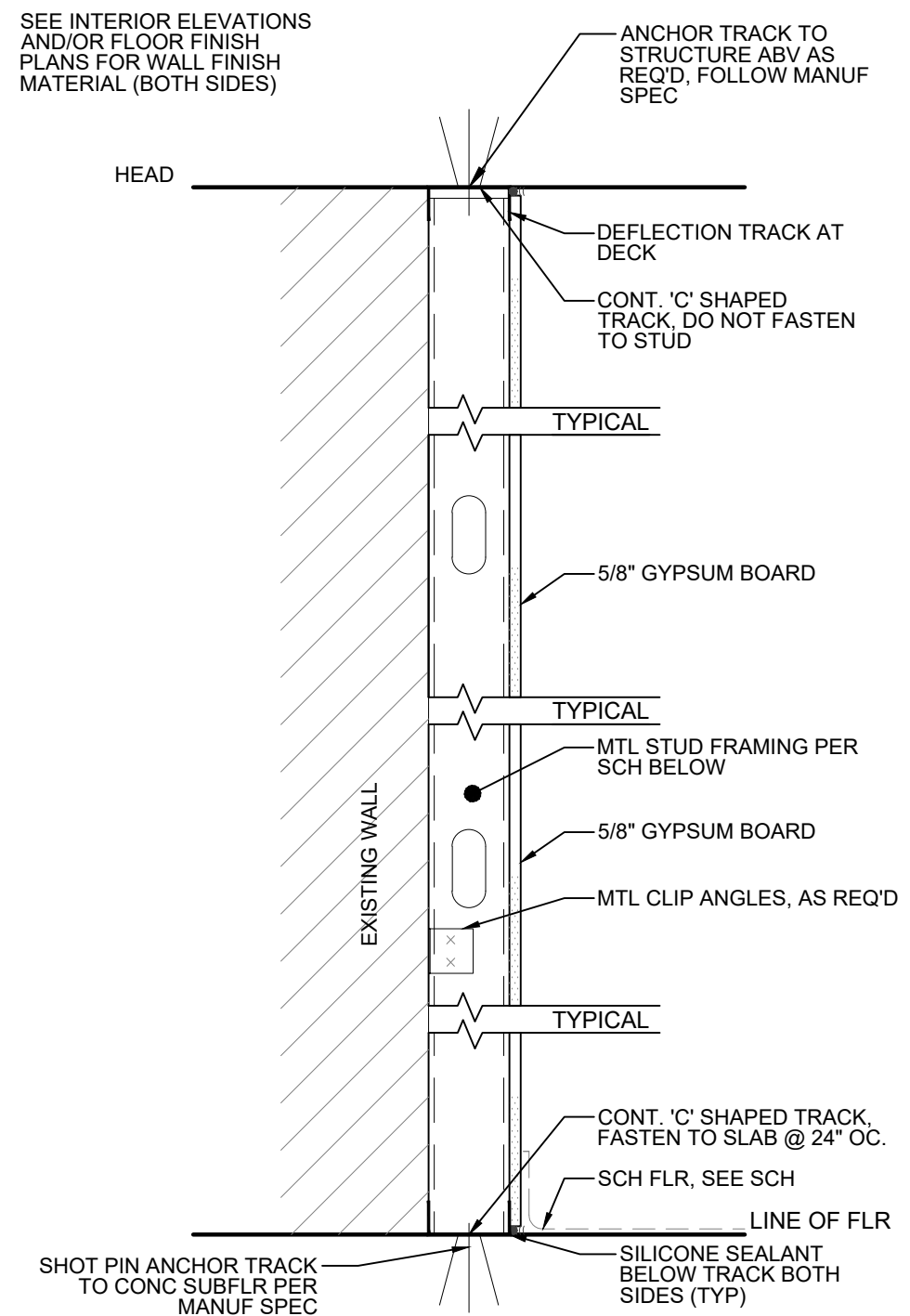
PARTITION SCHEDULE

A8-10

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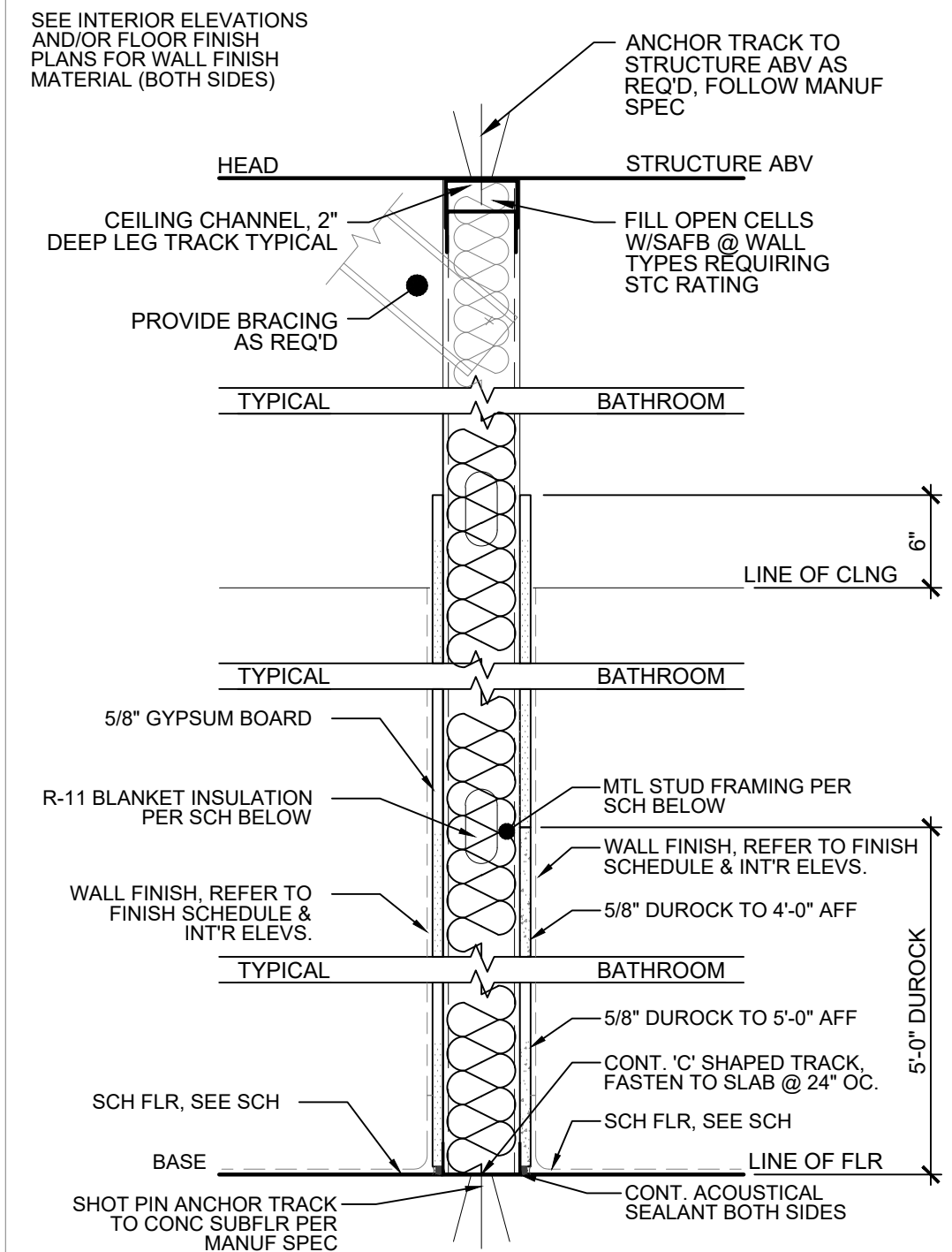
GENERAL PARTITION NOTES

- PARTITIONS ARE INDICATED ON FLOOR PLANS BY GRAPHIC DESIGNATION AND/OR TYPE SYMBOL - REFER TO PARTITION LEGEND.
- LINE OF STRUCTURE INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY - VERIFY EXISTING CONDITIONS IN FIELD.
- DO NOT FASTEN PARTITION STUDS AND GYPSUM BOARD TO METAL CEILING RUNNER, TO ALLOW FOR STRUCTURAL DEFLECTION.
- PROVIDE BRACING WHERE PARTITION HEIGHT EXCEEDS MANUFACTURER'S ALLOWABLE HEIGHT. DO NOT BRACE TO DUCTWORK OR OTHER SUCH COMPONENTS VERIFY ALLOWABLE HEIGHT PSF REQUIREMENTS WITH LOCAL CODE AUTHORITIES.
- THE FIRE RATINGS AND STC RATINGS NOTED FOR THE GYPSUM BOARD PARTITION ASSEMBLIES SHOWN ARE COPIED AND TRANSCRIBED HERE FOR CONVENIENCE ONLY FROM THE UNDERWRITERS LABORATORY DIRECTORY AND THE UNITED STATES GYPSUM CATALOG.
- WALL ASSEMBLIES AND PARTITIONS THAT RECEIVE FIRE RESISTIVE RATINGS SHALL BE CONSTRUCTED PER TESTED ASSEMBLIES, MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF ALL APPLICABLE CODES AND LOCAL GOVERNING AUTHORITIES.
- PENETRATIONS OR PRODUCTS FOR USE IN SPECIFIC FIRE RATED PARTITION ASSEMBLIES SHALL BE BASED ON SUCCESSFUL PERFORMANCE IN FIRE TESTS. THESE PENETRATIONS MAY INCLUDE BUT ARE NOT LIMITED TO ITEMS SUCH AS PIPING, CONDUIT, OR HVAC DUCTWORK.
- EACH PARTITION SHOWN ON THE DRAWINGS TO BE A FIRE AND/OR SMOKE RESISTANT PARTITION SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL, 8'-0" O.C.
- FIRE AND/OR SMOKE RESISTANT RATINGS ARE TO CONTINUE ABOVE ALL OPENINGS IN RATED PARTITIONS.
- ELECTRICAL RECEPTACLES SHALL NOT BE LOCATED IN FIRE RATED PARTITIONS IN EXCESS OF TWO HOURS.
- THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQ. IN. THE AGGREGATE SURFACE AREA OF BOXES SHALL NOT EXCEED 100 SQ. IN. PER 100 SQ. FT. OF WALL AREA. A HORIZONTAL DISTANCE OF 24 IN. SHALL SEPARATE BOXES LOCATED ON OPPOSITE SIDES OF PARTITIONS.
- BOXES LOCATED IN CORRIDOR AND UNIT DEMISING PARTITIONS SHALL BE TREATED WITH ACOUSTICAL SEALANT AROUND PERIMETER AND BEHIND EACH BOX (FULL CLOSURE BED). IN ADDITION, OUTLET AND JUNCTION BOXES SHALL BE SEPARATED BY INSTALLING A METAL STUD BETWEEN THEM IN THE PARTITION.
- COMPLETELY SEAL WITH CONTINUOUS ACOUSTICAL SEALANT ALL PARTITION HEADS, BASES, AND ENDS, PLUS SEAL ALL PENETRATIONS, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK.
- SOUND ATTENUATION BLANKETS ARE TO BE INSTALLED IN ALL PARTITIONS SEPARATING PUBLIC FROM PRIVATE AREAS AND WHERE NOISE CAN BE TRANSMITTED (RESTROOMS) EXTEND BLANKETS FULL HEIGHT OF PARTITION UP TO BOTTOM OF STRUCTURE, INSTALLED IN TIGHT, COMPRESSION FIT TO STUDS, STRUCTURE AND ADJACENT SURFACES.
- FINAL LOCATION AND PLACEMENT OF MEPPF ITEMS (BOTH HORIZONTAL AND VERTICAL) SHALL BE COORDINATED SUCH THAT THEY DO NOT TOUCH STUD PARTITION ASSEMBLIES AND CREATE AN ACOUSTICAL PROBLEM SUCH AS VIBRATION, IMPACT NOISE, ETC.
- PROVIDE FIRE RETARDANT WOOD BLOCKING IN METAL STUD PARTITIONS AS REQUIRED FOR SUPPORT AND/OR INSTALLATION OF DOOR FRAMES, MOLDINGS, MILLWORK, WALL PANELS, HANDRAILS, GRAB BARS, AND/OR PARTITIONS WHICH CONTAIN PLUMBING FIXTURES (SUCH AS WET WALLS AND WALLS ADJACENT TO AND BEHIND PLUMBING FIXTURES) U.N.O.
- CEMENTITIOUS BACKER BOARD SHALL BE USED AT PARTITIONS WHICH CONTAIN BATHROOM OR SHOWER PLUMBING FIXTURES U.N.O.
- USE GALVANIZED METAL CORNER BEADS AND EDGE TRIMS (OR SCREEDS AS REQUIRED) IN ALL EXPOSED WORK, POSITIVELY ATTACHED WITH FASTENERS.
- TAPE AND APPLY JOINT COMPOUND TO ALL INTERIOR CORNERS AND MOVEMENT CONTROL JOINTS IN GYPSUM BOARD PARTITIONS U.N.O.
- PROVIDE VERTICAL CONTROL JOINTS FOR ANY UNINTERRUPTED PARTITION LENGTH AT 30'-0" O.C. IN THE HORIZONTAL DIRECTION WHERE INDICATED OR AS REQUIRED. VERIFY LOCATIONS WITH ARCHITECT BEFORE INSTALLATION.
- ALL PLUMBING, MECHANICAL AND ELECTRICAL WORK WITHIN PUBLIC SPACES IS TO BE CONCEALED BY PAINTED SUSPENDED GYPSUM BOARD SOFFITS AND CEILINGS, COORDINATE LOCATIONS WITH MEPPF DRAWINGS.
- SEE FINISH PLAN FOR WATERPROOFING REQUIREMENTS
- PROVIDE EXPANSION JOINTS AND/OR CONTROL JOINTS PER MANUFACTURERS RECOMMENDATIONS, COORDINATE WITH ARCHITECT PRIOR TO INSTALL



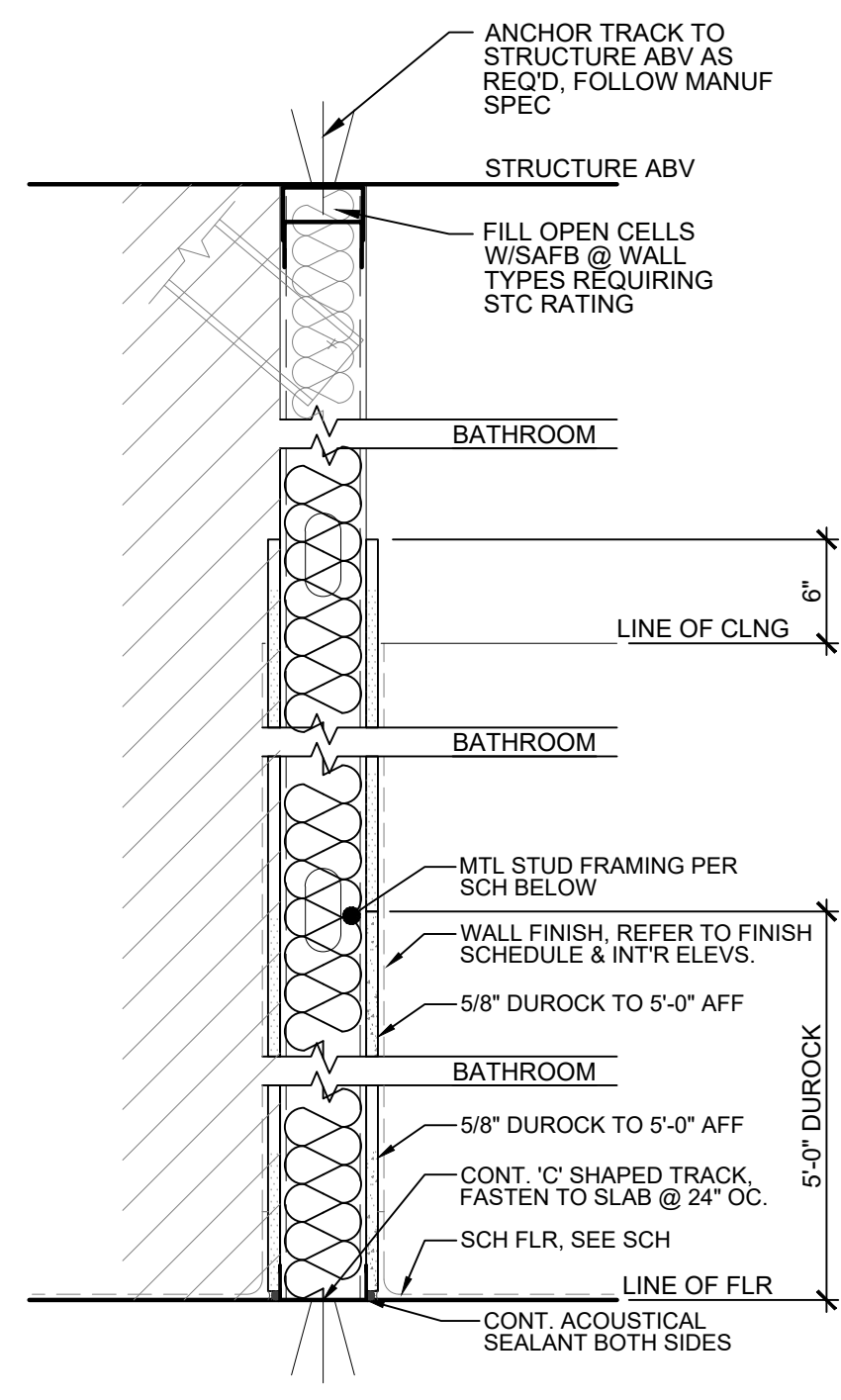
PARTITION 4: TYPICAL FURRING

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	STC RATING
A	1-5/8"	16" OC	N/A	N/A	20	2-1/8"	N/A
B	2-1/2"	16" OC	N/A	N/A	20	3"	N/A
C	3-5/8"	16" OC	N/A	N/A	20	4-1/8"	N/A
D	6"	16" OC	N/A	N/A	20	6-1/2"	N/A



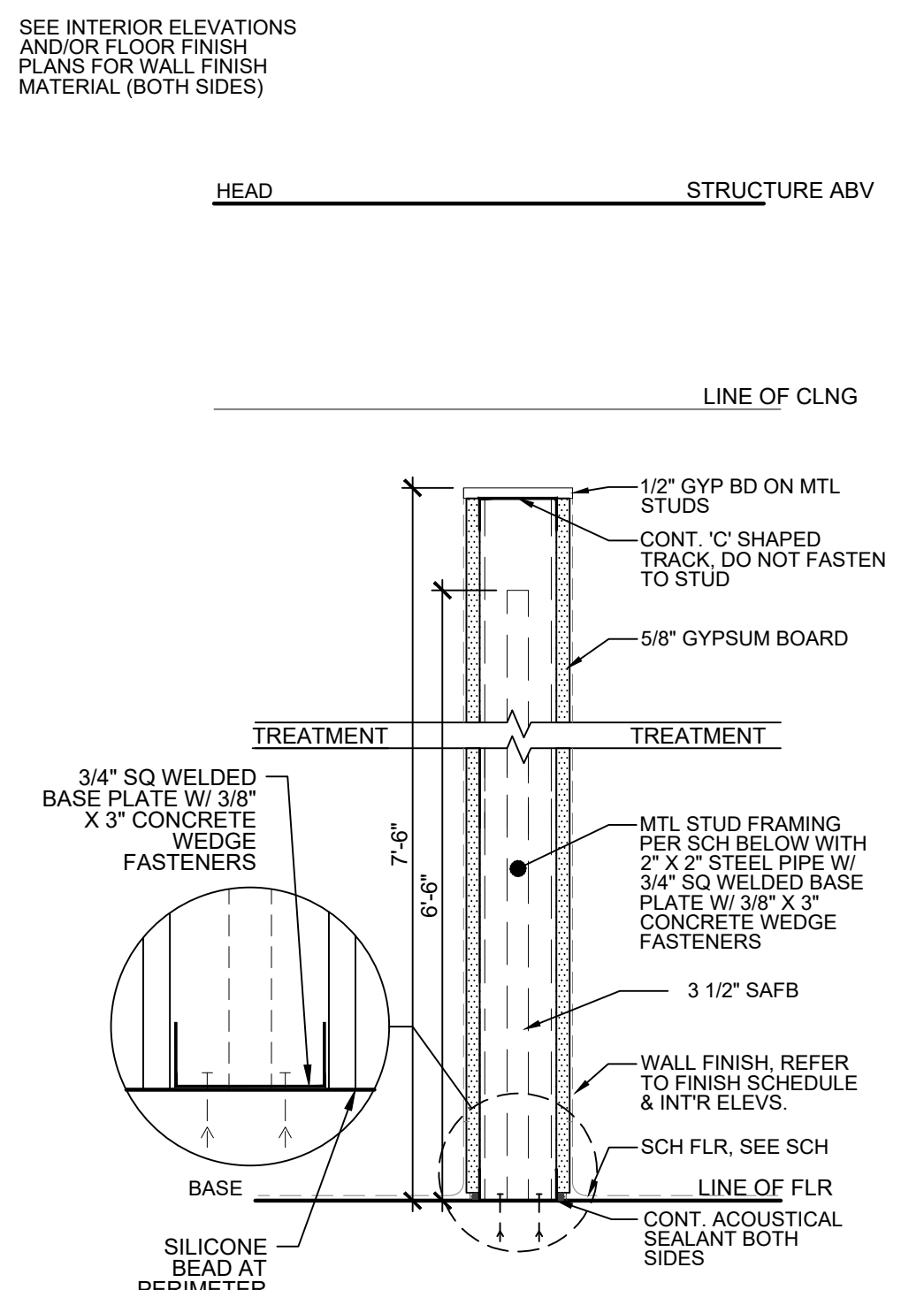
PARTITION: 2 (TYPICAL / BATHROOM)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	STC RATING
A	3-5/8"	16" OC	N/A	3"	20	5" NOM	49
B	6"	16" OC	N/A	6"	20	7"	49
C	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-



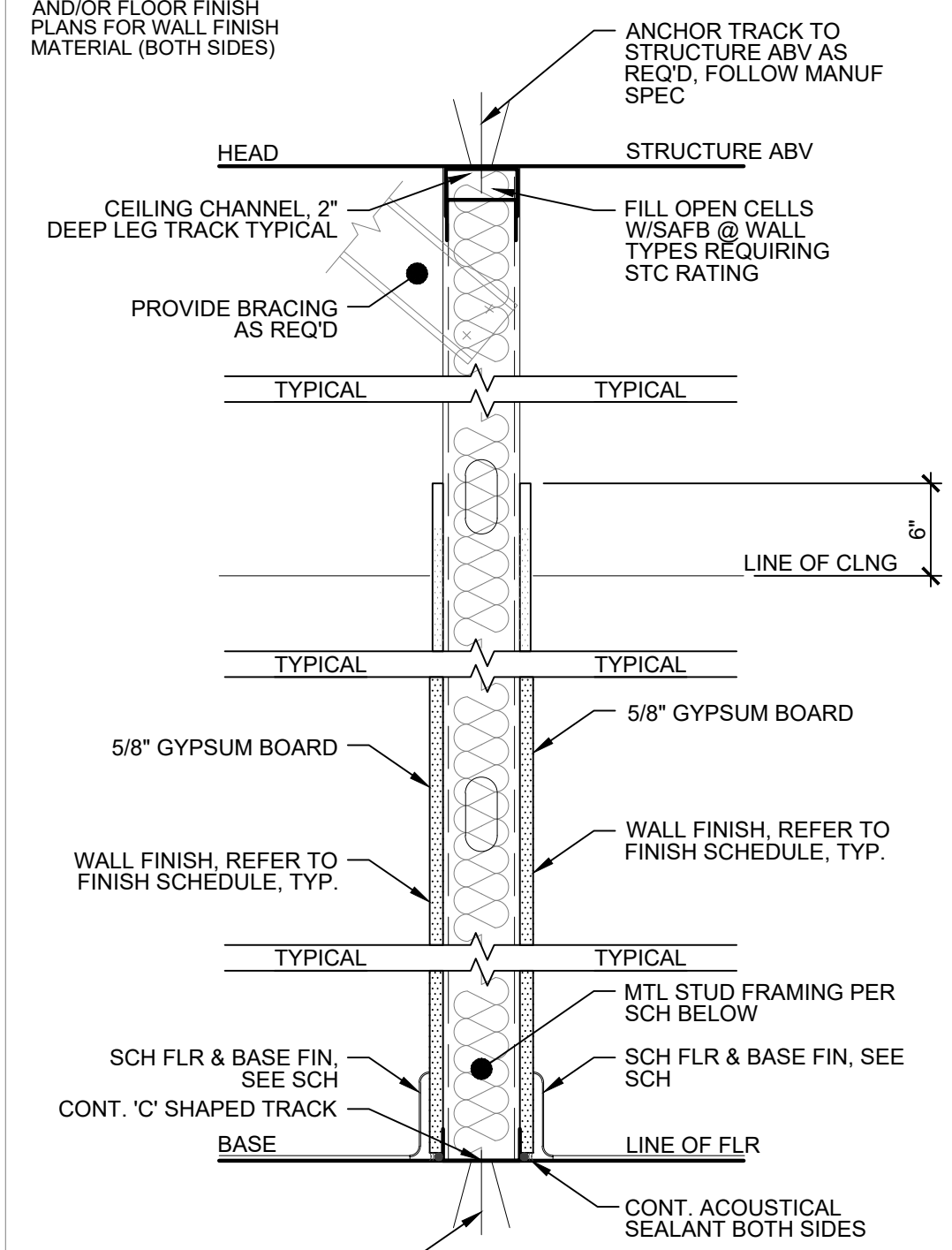
PARTITION: 2 (TYP BATHROOM FURRING)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	STC RATING
A	3-5/8"	16" OC	N/A	3"	20	5" NOM	49
B	6"	16" OC	N/A	6"	20	7"	49
C	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-



PARTITION: 3 (TREATMENT / TREATMENT)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	STC RATING
A	3-5/8"	16" OC	N/A	N/A	20	5" NOM	N/A
B	6"	16" OC	N/A	N/A	20	7"	N/A
C	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-



PARTITION: 1 (TYPICAL / TYPICAL)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	STC RATING
A	3-5/8"	16" OC	N/A	3"	20	5" NOM	49
B	6"	16" OC	N/A	6"	20	7"	49
C	3-5/8"	16"	N/A	NONE	20	5"	N/A
D	-	-	-	-	-	-	-

DOOR SCHEDULE

DOOR NUMBER	SIZE	TYPE	CONSTRUCTION	FACING / FINISH	FRAME	THRESHOLD	TEMPERED GLASS BY G.C.	HEAD DETAIL	JAMB DETAIL	U.L. LABEL	HOURS	HARDWARE	DOOR BY OWNER	REMARKS
(E) 101	3'-0" X 7'-0" X 1 3/4"	2	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	1	EXIST.	EXISTING ENTRY DOOR, GC TO RE-KEY. PROVIDE PANIC HARDWARE IF NOT EXISTING
102	3'-0" X 7'-0" X 1 3/4"	3	WD/GL	-	M-1	-	-	3/A8-30	3/A8-30	-	-	2	-	
103	3'-0" X 7'-0" X 1 3/4"	4	WD	-	HM/P-5	-	-	1/A8-30	1/A8-30	-	-	3	-	
104	3'-0" X 7'-0" X 1 3/4" 16 GA.	2	AL	M-4 PUB M-10 PRV PL-4 PRV	HM/P-5	-	-	4/A8-30	4/A8-30	-	-	7	-	BOH ELIASON DOORS
105	3'-0" X 7'-0" X 1 3/4"	2	WD	-	HM/P-5	-	-	1/A8-30	1/A8-30	-	-	6	-	
106	3'-8" X 7'-0" X 1 3/4"	4	WD	-	HM/P-5	-	-	1/A8-30	1/A8-30	-	-	4	-	
107	3'-0" X 7'-0" X 1 3/4"	2	WD	EXIST.	HM/P-5	EXIST.	EXIST.	1/A8-30	1/A8-30	EXIST.	EXIST.	5	-	
108	3'-0" X 7'-0" X 1 3/4"	2	HM	HM	AL	EXIST.	EXIST.	-	-	EXIST.	EXIST.	8	-	
(E) 109	3'-0" X 7'-0" X 1 3/4"	2	HM	EXIST.	HM	EXIST.	EXIST.	1/A8-30	1/A8-30	EXIST.	EXIST.	5	EXIST.	

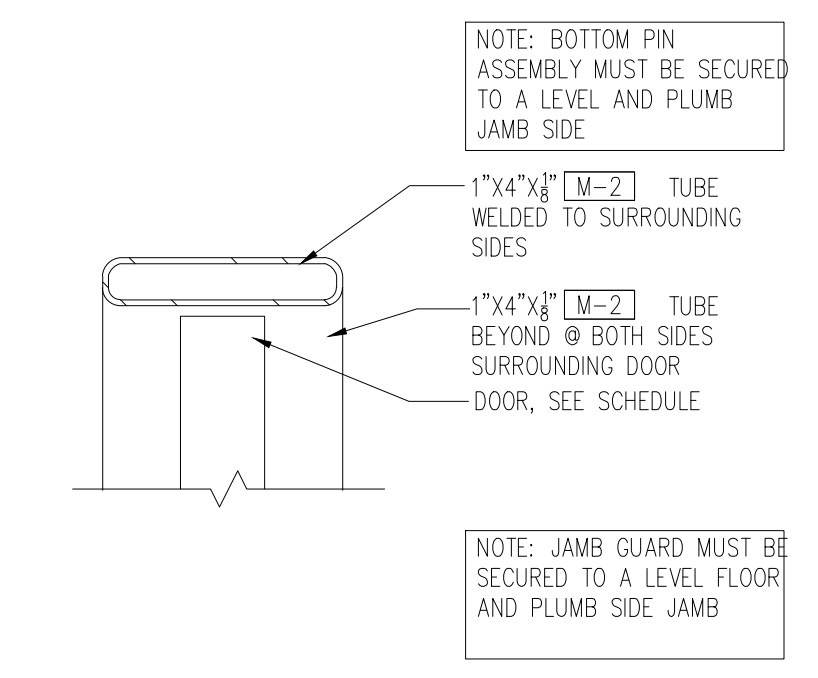
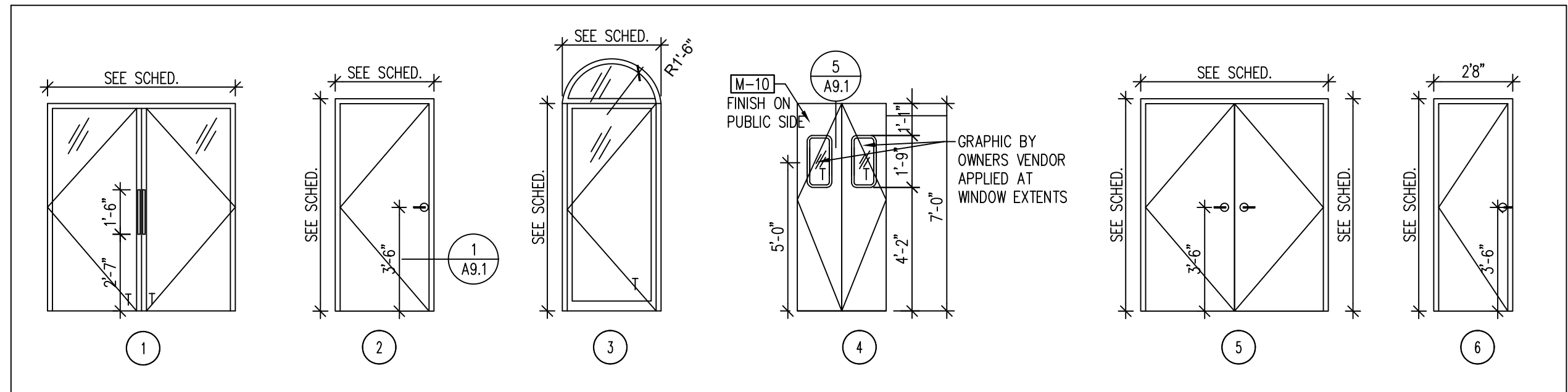
- NOTES:
- TEMPERED GLASS REQUIRED IF GLAZING IS LESS THAN 18" A.F.F. OR ADJACENT TO DOORS. G.C. TO REPLACE ALL UNTEMPERED GLASS WITH TEMPERED GLASS AS REQUIRED.
 - KICK PLATES TO BE INSTALLED ON ACTION SIDE.
 - PROVIDE ADA SIGNS PER CODE @ PUBLIC TOILET ROOM. SEE T1.4
 - T = TEMPERED, PT = PAINT, HM = HOLLOW METAL, ST = STAIN SC = SOLID CORE WOOD, WD = HOLLOW WOOD, AL = ALUMINUM, GL = GLASS, LDW = LESS DOOR WIDTH, SS = STAINLESS STEEL, EXST = EXISTING, STL = STEEL
 - EXISTING DOOR TO BE RE-KEYED

HARDWARE SCHEDULE

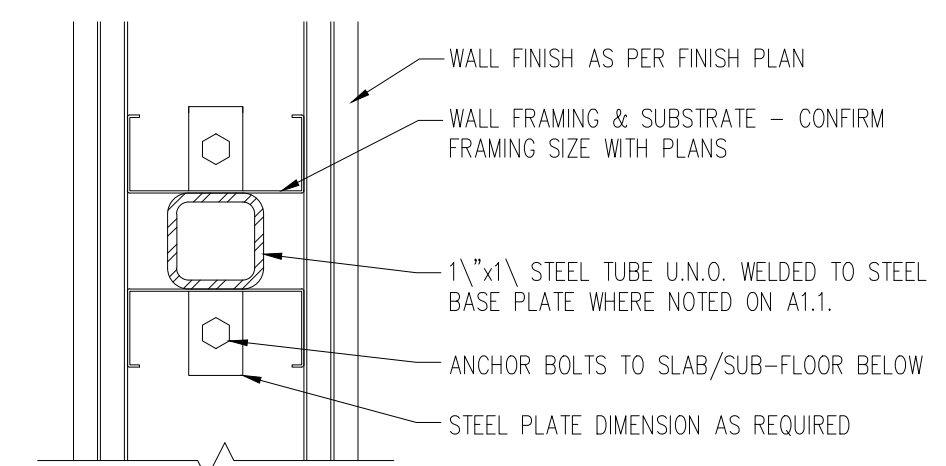
SET	LOCATION	QTY.	DESCRIPTION	MODEL #	FINISH	MANUFACTURER
1	EXTERIOR FRONT ENTRY	-	CARNEGIE DOOR HANDLE	KT3001-1500-38-07	MATTE BLACK PAINTED	KEY TIGER
		-	CONCEALED OH CLOSERS	LCN 2030	622	LCN 2030
		-	PERMANENT CORE	CY-1	622	CY-1
		-	HINGES	BH-1	622	BH-1
		-	THUMB TURN	CY-3	622	CY-3
		-	MS HOOKBOLT LOCK & FACE PLATE	1850 FP-1	622	1850 FP-1
2	RETAIL AREA/ TREATMENT AREA	1	ROCKWOOD 18" PULL	RM5240	BSP	-
		1	CONCEALED CLOSER	2010 SERIES	606	-
		6	HINGES	5BBI 4.5 X 4.5	622	-
		3	SILENCER	SR64	622	-
3	ADA TOILET	3	HINGES	5BBI 4.5 X 4.5	626	SCHLAGE
		1	PRIVACY SET/LEVER DESIGN	ND40S TLR	606	-
		1	KICK DOWN FLOOR STOP	H.B. IVES 452	-	-
4	TOILET	3	HINGES	5BBI 4.5 X 4.5	626	BALDWIN 5137 ESTATE LEVER
		1	PRIVACY SET/LEVER DESIGN	H.B. IVES 452	606	-
		1	KICK DOWN FLOOR STOP	-	-	-
5	OFFICE	3	HINGES	5BBI 4.5 X 4.5	626	BALDWIN 5137 ESTATE LEVER - 5137-606-PRV
		1	PRIVACY SET/LEVER DESIGN	-	606	-
		1	KICK DOWN FLOOR STOP	H.B. IVES 452	-	-
6	UTILITIES STORAGE/CLOSET	3	HINGES	5BBI 4.5 X 4.5	622	BALDWIN 5137 ESTATE LEVER
		1	PASSAGE	2137-606-PASS	606	-
		1	KICK DOWN FLOOR STOP	H.B. IVES 452	BLK	-
7	ELIASON SWING BOH DOOR (PER LEAF)	2	ELIASON HARDWARE	-	STAINLESS STEEL	BY DOOR MANUFACTURER
		1	FLOOR BUMPERS	-	FAUX FINISHED	-
		1	13" x 10" WINDOW	-	BLACKENED STEEL BY G.C.	-
8	EXTERIOR BACK ENTRY/EXIT	3	HINGES	5BBI 4.5 X 4.5 NRP	626	-
		1	PANIC HARDWARE	DETEX V40 X W	626	-
		1	SURFACE CLOSER	4040XP HOLD OPEN	626	-
		1	KICK PLATE	8400 8" X 34" LDW B4E	626	-
		1	DOOR SWEEP	97V	626	-

- HARDWARE SCHEDULE NOTES:
- SUPPLY HARDWARE IN ACCORDANCE WITH BBHMA GRADE 1 QUALITY STANDARDS.
 - HARDWARE FINISH TO BE BRUSHED STAINLESS.
 - WOOD DOORS TO BE PAINTED.
 - DOOR FRAMES TO BE PAINTED.
 - ALL DOORS AND HARDWARE TO COMPLY WITH ANSI A117.1-404. ADJUST CLOSERS AS REQUIRED.
 - PANIC HARDWARE IN ACCORDANCE WITH ALL APPLICABLE CODES TO MATCH EXISTING STOREFRONT.
 - CAULK BOTH SIDES OF ALL DOOR FRAMES.
 - POCKET DOOR FRAMES SIZE SUCH THAT THE CLEAR OPENING WITH THE DOOR PULL IS 32" MIN. AND CLEARANCE BETWEEN PULL AND THE FRAME IS 1.5" MIN.
 - ALL INTERIOR DOOR FRAMES TO BE PAINTED HOLLOW METAL UNLESS NOTED OTHERWISE.
 - FOR LOCKING POCKET DOORS USE ADA COMPLIANT C-92L-HLDP BY KNC OR EQUAL.
 - FOR LOCKING SURFACE SLIDING DOORS USE ADA COMPLIANT C-94BL-HLDP BY KNC OR EQUAL.
 - ALL DOORS ON THE ACCESSIBLE ROUTE OR CIRCULATION PATH TO BE TESTED FOR A MAX OPENING FORCE OF 5 LBS.

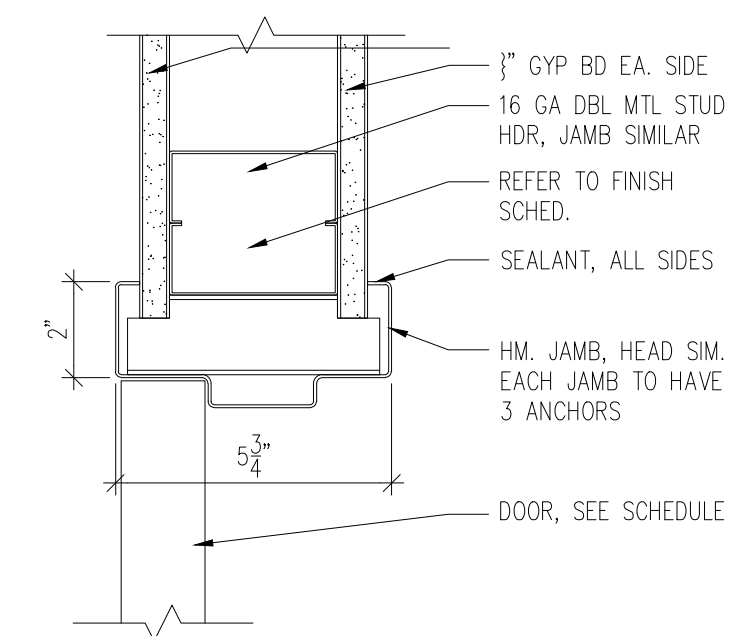
DOOR ELEVATIONS



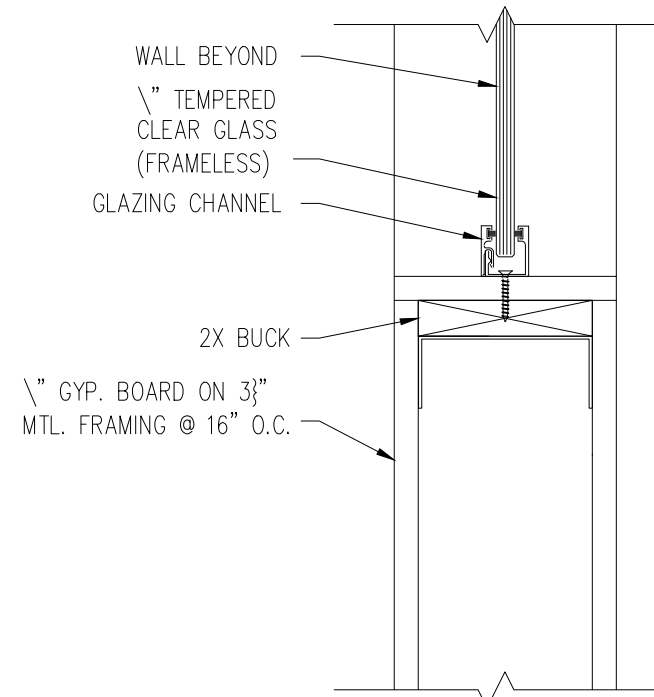
04 HEAD / JAMB METAL
3"=1'-0"



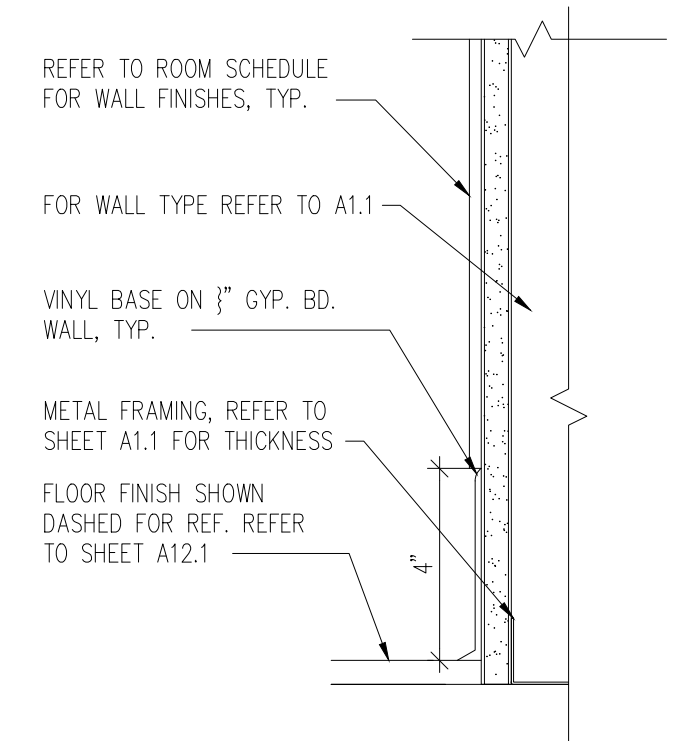
07 SUPPORT DETAIL
3"=1'-0"



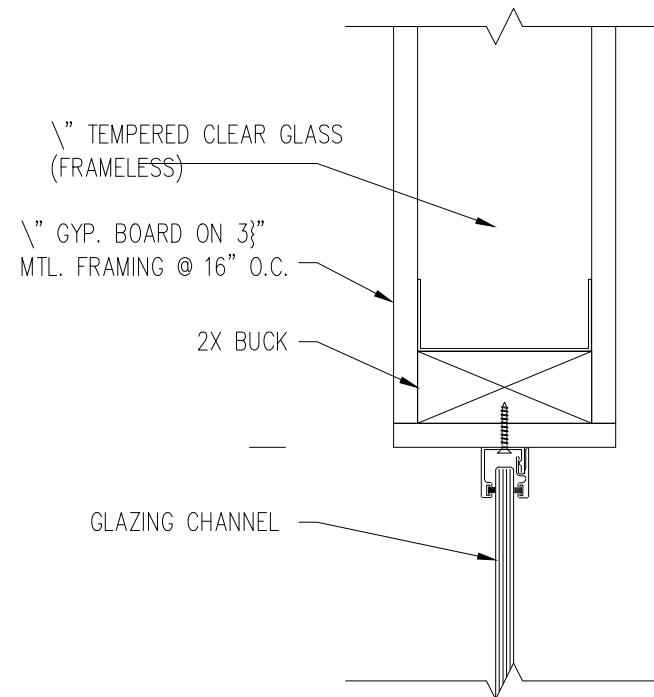
03 HEAD / JAMB SIMILAR MTL
3"=1'-0"



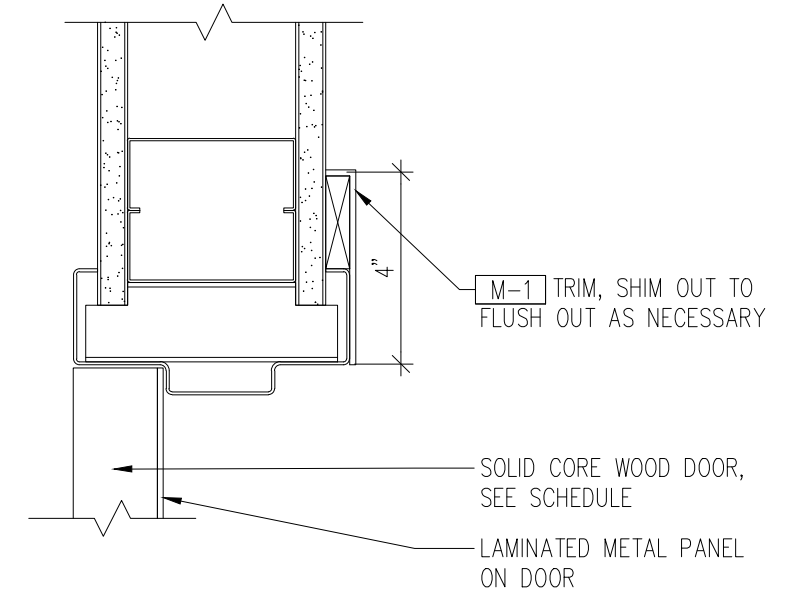
06 WINDOW SILL DETAIL
3"=1'-0"



02 TYPICAL BASE DETAIL
3"=1'-0"



05 WOOD HEAD DETAIL
3"=1'-0"



01 HEAD / JAMB SIMILAR WOOD
3"=1'-0"

MUNICIPAL APPROVAL STAMP

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PERMIT / BID

Project Number: 22-087	Approved By: XX	Date: 05/12/2022
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No.:	95% REVIEW	ISSUED FOR PERMIT & BID

SHEET TITLE & NUMBER

DOOR SCHEDULE & DETAILS

A8-30

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FINISH SCHEDULE						
CONCRETE						
KEY	MATERIAL	MANUFACTURER	COLOR NUMBER	NUMBER / SIZE	FINISH	NOTES AND LOCATION
CS-1	CONCRETE TOPPING	ARDEX OR EQUAL		-	MOTTILING AND VARIATION TO ACHIEVE MOVEMENT THROUGHOUT. SEALANT REQUIRED.	FLOORING THROUGHOUT
WOOD						
WD-1	WOOD BASE	G.C.	TO MATCH PL-1	4"		WOOD BASE THROUGHOUT
WD-2	PAINTED MDF	MILLWORKER	PAINTED WHITE	-	COMMERCIAL GRADE WATERBOURNE MATTE SEALER. SEAL ALL SIDES, TYP.	SHELVING & VERTICAL SUPPORTS @ RETAIL SHELVES. PROVIDE SAMPLE FOR ARCHITECT'S APPROVAL.
TILE						
T-1	CERAMIC WALL TILE	EMSER TILE	HUES / EBONY	3" x 10"	GROUT: MAPEI BONE " " JOINTS	ADA TOILET ROOM WAINSCOT
T-2	WALL TILE	NEMO TILE	METRO / TENDER TAN	2" x 8"	GLOSSY GROUT: MAPEI BONE " " JOINTS	EMPLOYEE TOILET ROOM WAINSCOT
PAINT						
P-1	PAINT	BENJAMIN MOORE	CHANTILLY LACE OC-65	-	EGGSHELL	WALLS & CEILINGS
P-2	PAINT	BENJAMIN MOORE	BALBOA MIST OC-27	-	SEMI-GLOSS	INTERIOR DOORS
P-3	PAINT	BENJAMIN MOORE	BASKING RIDGE BEIGE 1158	-	MATTE	RETAIL ARCHES
P-4	PAINT	BENJAMIN MOORE	ROMAN SHADE 1228	-	EGGSHELL	TREATMENT ROOM WAINSCOT
P-5	PAINT	BENJAMIN MOORE	GALAPAGOS GREEN 475	-	EGGSHELL	TREATMENT ROOM WAINSCOT
P-6	PAINT	BENJAMIN MOORE	BLUE NOTE 2129-30	-	EGGSHELL	
P-7	PAINT	BENJAMIN MOORE	SOOT 2129-20	-	EXTERIOR SEMI-GLOSS	STOREFRONT
P-8	MASONRY PAINT	ROMABIO	TO MATCH P-1	-	MASONRY FLAT	
METALS						
M-1	SCHLUTER	SCHLUTER SYSTEMS	SCHIENE / BRASS	-		MATERIAL TRANSITIONS
M-2	SCHLUTER	SCHLUTER SYSTEMS	DILEX / BRASS	-		
M-3	METAL FINISH	STYLMARK	BUFFED SATIN BRASS	-	FINISH CODE: 121	BRASS FINISH THROUGHOUT
M-4	RUNNING TRIM, ORNAMENTAL METAL		BLACKENED STEEL	-	APPLY 2 COATS CLEAR POLYURETHANE FINISH	BOH WALL BASE, ELIASON DOORS
MISC.						
AC-1	ACRYLIC	3M OR EQUAL	CLEAR			CUBBY DIVIDER @ RECEPTION DESK
ACT-1	ACOUSTICAL CEILING TILE	CERTAINTED OR SIMILAR	ECOPHON FOCUS DG - SEMI REVEALED GRID w/ FOCUS WING FRAME WHITE	30" x 30"		TREATMENT AREA
ACY-1	EPOXY RESIN	DUR-A-FLEX	CUSTOM BLEND TERAZZO LOOK	-		TREATMENT AREA FLOORING OPTION
B-1	BRICK VENEER	BRICKS, INC.	ANTHRO RECLAIMED BRICK FLATS NOMINAL	-	PAINTED w/ P-8	
CB-1	BAG HOOK		3" BRUSHED BRASS BIN PULL	3"		ONLINE PICKUP
CB-2	ROOM NUMBERS		AURELE HOUSE NUMBER BRUSHED BRASS	4" H		TREATMENT ROOM
CM-1	WALK-OFF MAT	MATS INC. OR EQUAL	LOOSE LAY NATURAL COLOR			
EX-1	EXTERIOR STOREFRONT SYSTEM	KAWNEER OR SIMILAR	MATTE BLACK ANODIZED	-		STOREFRONT
F-1	FABRIC	KRAVET	SMART - 35121-111 w/ BRUSHED BRASS GROMMETS	-		TREATMENT ROOM DRAPERY FABRIC NFPA 701 TREATMENT REQUIRED
F-2	FABRIC	KRAVET	CHESSFORD / THYME	-		ENTRY WAITING BENCH FABRIC
FS-1	STUCCO	GC OR EXISTING	TO MATCH P-1	-		
HDW-1	CABINET HARDWARE	McMASTER-CARR	CHEMICAL RESISTANT SLIPPERY PTFE 90 DEGREE ANGLES COLOR: WHITE	-		TREATMENT ROOM BACK BAR CABINET FINGER PULL
HDW-2	CABINET HARDWARE	McMASTER-CARR	SLIPPERY UHMW POLYETHYLENE U-CHANNELS COLOR: WHITE	-		TREATMENT ROOM BACK BAR CABINET DOOR TRIM
HDW-3	CABINET HARDWARE	RICHELIEU	BP9898128166 SATIN GOLD	5-13/16"		MILLWORK CABINET FINGER PULLS INSTALLED VERTICALLY
PL-1	PLASTIC LAMINATE	FORMICA	8843 NATURAL ASH	-		CABINETRY THROUGHOUT
PL-2	PLASTIC LAMINATE	ABET LAMINATI	1826 CAPPUCINO	-	SEI FINISH	TREATMENT ROOM BACKBAR LAMINATE CABINETRY / BASE OPTION
PL-3	PLASTIC LAMINATE	ARBORITE	S583 FERN	-	STANDARD FINISH	TREATMENT ROOM BACKBAR LAMINATE CABINETRY / BASE OPTION
PL-4	PLASTIC LAMINATE	ABET LAMINATI	879 SEI	-	MATTE FINISH	ELIASON DOOR
PL-5	PLASTIC LAMINATE	FORMICA	949 WHITE	-		BACK OF HOUSE COUNTERTOPS
RF-1		ARMSTRONG	COALESCE NONA ST776 RAVENNA	18" x 18"		BOH FLOORING
SS-1	SOLID SURFACE	CORIAN	RAIN CLOUD	-		TOILET ROOM VANITY TOP
SS-2	SOLID SURFACE	CORIAN	DESIGNER WHITE	-		COUNTERTOP THROUGHOUT
WC-1	WALLCOVERING	MDC INTERIOR SOLUTIONS	CUSTOM HEYDAY BRAND GRAPHIC WALLCOVERING	-		WALLS ABOVE WAINSCOT

FIXTURE LEGEND			
SYMBOL	DESCRIPTION	LAMP/ LENS	COMMENT
	L-1	15 WATTS 3000K	
	L-2	VOLTAGE: 2700K LAMP: 6W WATT, 2700K MOUNTING: 6'-0" AFF	LOCATION: SEE RCP AND ELEC. DWGS.
	L-3	VOLTAGE: 24V 3000K 4.4 WATTS / LINEAR FOOT	LOCATION: SEE RCP AND ELEC. DWGS.
	L-4	VOLTAGE: 24V 3000K MOUNTING: MOUNTED 8'-0" AFF OPTICS: STANDARD DIFFUSER	LOCATION: SEE RCP AND ELEC. DWGS.
	L-5	VOLTAGE: 120-277V LAMP: LED STATIC WHITE 1600 LUMENS: 3500K, 80 CRI MOUNTING: NEW CONSTRUCTION W/ CEILING FITTING PLATE	LOCATION: SEE RCP. IP65 WITH LENS RATED.
	L-6		LOCATION: SEE RCP. BACK OF HOUSE/EMPLOYEE BREAK ROOM
	L-7	15 WATTS 3000K	LOCATION: MONOPOINT ABOVE RETAIL ISLAND DISPLAY
	X1	VOLTAGE: 120/277 4.8V BATTERY BATTERY: 90 MIN EM BATTERY BACKUP	LOCATION: SEE RCP AND ELEC. DWGS.
	EM	VOLTAGE: 120-277VAC, 60 HZ WATTAGE: 1.5 W LED LAMP HEADS MOUNTING: WALL MOUNT	LOCATION: SEE RCP AND ELEC. DWGS.
	== ==		
	T1		
	L8	WATTAGE: 15 WATT, 3000K MOUNTING: 5'-0" AFF FROM CENTER	

- NOTES:
- REUSE EXISTING EM/EX FIXTURES AS NECESSARY.
 - REFER TO A1-21 FOR SIGNAGE LOCATIONS.
 - NO SUBSTITUTIONS ON FIXTURE TYPE OR MFR. U.N.O.
 - ALL FIXTURES TO BE DIMMABLE.
 - CONTACT REP/NAME AS NOTED PER FIXTURE AS CONTACT NAME IS FAMILIAR W/ CUSTOM APPLICATIONS ON JOB.
 - LUMINAIRE MUST BE CHECKED IN AND ACCOUNTED FOR BY CONTRACTOR. ANY MISSING PARTS OR DAMAGES MUST BE REPORTED LIGHTING DISTRIBUTOR WITHIN 48 HOURS.
 - ALL VENDORS TO ENSURE UL CERTIFICATION FOR ALL FIXTURES.

MUNICIPAL APPROVAL STAMP

CLIENT

PROJECT

HEYDAY

HEYDAY - ANN ARBOR- CRANBROOK VILLAGE

890 W. EISENHOWER PKWY
ANN ARBOR, MI 48103



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PERMIT / BID

Project Number: 22-067	Approved By: XX	Date: 05/12/2022
Drawn By:	Issue	06/09/2022
No. 95% REVIEW	ISSUED FOR PERMIT & BID	

SHEET TITLE & NUMBER

FINISH & LIGHTING SCHEDULE

A9-10

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PLOT DATE: 6/17/2022 1:50 PM PLOTTED BY: SARAH ANWAN

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1. GENERAL
A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, AND ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL BE PART OF THESE SPECIFICATIONS.
B. THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.
C. THE TERM "CONTRACTOR" AS USED HEREIN MEANS ANY CONTRACTOR OR SUBCONTRACTOR CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION.
D. MECHANICAL WORK SHALL BE PROVIDED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE LOCAL ORDINANCES, STATE LAWS AND FEDERAL LAWS.

2. PRIOR TO BIDDING:
A. THOROUGHLY REVIEW THE BID INSTRUCTIONS INCLUDING ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEP CONSTRUCTION DOCUMENTS. OBTAIN AND THOROUGHLY EXAMINE THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, DETAILS, AND REQUIREMENTS FOR THE SCHEDULED AND SPECIFIED EQUIPMENT AND MATERIALS.
B. IF THE CONTRACTOR BELIEVES THE DRAWINGS AND SPECIFICATIONS CONFLICT WITH CODE REQUIREMENTS, IMMEDIATELY NOTIFY THE ARCHITECT (ENGINEER) IN WRITING.
C. NO ALLOWANCES WILL BE MADE DUE TO CONTRACTOR'S UNFAMILIARITY WITH THE CONSTRUCTION DOCUMENTS OR FOR THE FAILURE OF THE CONTRACTOR TO OBTAIN CLARIFICATIONS PRIOR TO BID.
D. VISIT THE JOB SITE AND THOROUGHLY INVESTIGATE CONDITIONS. THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
E. REFER TO APPLICABLE CODES CITED IN CONSTRUCTION DOCUMENTS, EXAMINE GOVERNING STATE AND LOCAL CODES, AND LOCAL REGULATIONS AND ORDINANCES, AND PROVIDE ALL EQUIPMENT AND INSTALLATION IN STRICT ACCORDANCE WITH SAME.

3. BIDDING
A. SUBMISSION OF A BID ACKNOWLEDGES THAT THE CONTRACTOR HAS REVIEWED THE BID INSTRUCTIONS, HAS VISITED THE SITE, EXAMINED ALL CONSTRUCTION DOCUMENTS, AND AGREES TO ALL TERMS AND CONDITIONS WITHIN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR'S BID SHALL INCLUDE ALL MECHANICAL WORK IN THE CONSTRUCTION DOCUMENTS, INCLUDING MECHANICAL WORK RELATED TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS.
4. PERMITS
A. SECURE AND PAY FOR ALL PERMITS, LICENSES, AND INSPECTIONS REQUIRED BY THE AHJ FOR THIS WORK.
5. SUBSTITUTIONS
A. MANUFACTURER'S EQUIPMENT AND MATERIALS SCHEDULED, NOTED, AND SPECIFIED IN THE CONSTRUCTION DOCUMENTS ARE THE DESIGN STANDARD. SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT OR ENGINEER. IN BIDDING, DO NOT ASSUME ACCEPTANCE OF SUBSTITUTIONS. CONTRACTOR MUST STATE IN SUBSTITUTION REQUEST: "PROPOSED SUBSTITUTIONS ARE EQUAL OR OF HIGHER QUALITY, EFFICIENCY AND DEPENDABILITY COMPARED TO THE SPECIFIED EQUIPMENT AND MATERIAL. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO DESIGN CHANGES, INCLUDING MECHANICAL WORK RELATED TO EQUIPMENT SUBSTITUTIONS WHICH ARE NOT APPROVED OR NOT EQUAL TO DESIGN STANDARD SHALL BE REMOVED AND THE SCHEDULED, NOTED, AND SPECIFIED EQUIPMENT AND MATERIALS SHALL BE INSTALLED AT CONTRACTOR'S EXPENSE. SUBMITTING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO SUBSTITUTIONS.

MECHANICAL ABBREVIATIONS
AAV AUTOMATIC AIR VENT
ACH AIR CHANGES PER HOUR
AFF ABOVE FINISHED FLOOR
AHJ AUTHORITIES HAVING JURISDICTION
AHU AIR HANDLING UNIT
AIP ABANDONED/IN PLACE
AS AIR SEPARATOR
ATC AUTOMATIC TEMPERATURE CONTROL VALVE
ATR ALL THREAD ROD
ATU AIR TERMINAL UNIT
BFP BACK FLOW PREVENTER
BFL BUTTERFLY VALVE
BLR BLOWER
BMS BUILDING MANAGEMENT SYSTEM
BMD BOTTOM OF DUCT
BOB BOTTOM OF GRILLE
BOP BOTTOM OF PIPE
BP BYPASS
BTU BTU/HOUR
BTUH COMPRESSED AIR
CD CONDENSATE DRAIN
CFH CUBIC FEET PER HOUR
CFM CUBIC FEET PER MINUTE
CH CHILLER
CI CAST IRON
CO2 CARBON MONOXIDE
CO CARBON DIOXIDE
CPVC CHLORINATED POLYVINYL CHLORIDE
CRAC COMPUTER ROOM AIR CONDITIONING UNIT
CRUCU COMPUTER ROOM CONDENSING UNIT
CU CONDENSING UNIT
CUH CABINET UNIT HEATER
D DRAIN
DDC DIRECT DIGITAL CONTROL
DEMO DEMOLISH
DLSS DUCTLESS SPLIT SYSTEM
DN DOWN
DOAS DEDICATED OUTDOOR AIR SYSTEM
DX DIRECT EXPANSION
E EXISTING
EA EXHAUST AIR
EAB ELECTRIC BASEBOARD HEATER
EC ELECTRICAL CONTRACTOR
EF EXHAUST FAN
EHS ENERGY MANAGEMENT SYSTEM
EQ EQUAL
EQT EQUIPMENT
ERV ENERGY RECOVERY VENTILATOR
ET EXPANSION TANK
EUH ELECTRIC UNIT HEATER
EV EXHAUST VENTILATOR
EWC ELECTRIC WATER COOLER
EWH ELECTRIC WATER HEATER
FCU FAN COIL UNIT
FDU FIRE DAMPER
FLA FULL LOAD AMPS
FRS FIRE RETARDANT TREATED (WOOD)
FRT FLOAT SWITCH
FSU FIRE/SMOKE DAMPER
FSD FULL LOAD AMPS
FTH FEET OF HEAD (PRESSURE DROP)
FTU FAN TERMINAL UNIT
FV FIELD VERIFY
GVD GRAVITY BACK DRAFT DAMPER
GC GENERAL CONTRACTOR
GUH GAS UNIT HEATER
GWH GAS WATER HEATER
H HUMIDITY SENSOR
HEV HOSE END VALVE
HP HORSEPOWER
HPT HEAT PUMP
HPRR HEAT PUMP ROOF TOP UNIT
HX HEAT EXCHANGER
HZ HERTZ
IAR INTAKE AIR HOOD
IBDD INTAKE BACK DRAFT DAMPER
ID INSIDE DIAMETER
IOM INSTALLATION AND OPERATION MANUAL
IRH INFRARED RADIANT HEATER
IV INTAKE VENTILATOR
IW INDIRECT WASTE
KEC KITCHEN EXHAUST CONTRACTOR
KEF KITCHEN EXHAUST FAN
KIOWAIT KITCHEN EXHAUST FAN
LLD LOW LEAK TYPE DAMPER
LPC LOW PRESSURE CONDENSATE
LPS LOW PRESSURE STEAM
LPM MANUAL AIR VENT
MFG MANUFACTURER
MAF MAXIMUM AIRFLOW
MB 1000 BTU/HR
MCB MECHANICAL CONTRACTOR
MCA MINIMUM CIRCUIT AMPERES
MD MOTORIZED DAMPER
MH MOUNTING HEIGHT
MIN MINIMUM
MOOP MAXIMUM OVER CURRENT PROTECTION
MTO MOUNTED
MUA MAKE UP AIR
MUV MAKE UP WATER
N/A NEUTRAL AIR UNIT
NC NORMALLY CLOSED
NIC NOT IN CONTRACT
NO NORMALLY OPEN
NOT TO SCALE
OA OUTSIDE AIR
OD OUTSIDE DIAMETER
OED OVERFLOW
OPF OUTSIDE AIR FLOW (ROOF)
P PUMP
PC PLUMBING CONTRACTOR
PSC POUNDS PER CUBIC FOOT
PE POLYETHYLENE
POC POINT OF CONNECTION
PRV PRESSURE REDUCING VALVE
PSP PUMP SUCTION GUIDE
PSI POUNDS PER SQUARE INCH
PTAC PACKAGED TERMINAL AIR CONDITIONING
PVC POLYVINYL CHLORIDE
RA RETURN AIR
RAH RELIEF AIR HOOD
RAC REFRIGERATION CONTRACTOR
RHG REFRIGERANT HOT GAS
RL REFRIGERANT LIQUID
RS REFRIGERANT SUCTION
RTD RESISTANCE TEMPERATURE DETECTOR
RTU ROOF TOP UNIT
S SENSOR
SA SUPPLY AIR
SD SMOKE DETECTOR
SMS SHEET METAL SCREW
SS STAINLESS STEEL
T THERMOSTAT
TA TRANSFORMER
TDV TRIPLE DUTY VALVE
TRH TUBULAR RADIANT HEATER
TYP TYPICAL
UH UNIT HEATER
UNLESS NOTED OTHERWISE
V VOLTS
VAV VARIABLE AIR VOLUME
VD VOLUME DAMPER
VFD VARIABLE FREQUENCY DRIVE
VRF VARIABLE REFRIGERANT FLOW
VRV VARIABLE REFRIGERANT VOLUME
VSD VARIABLE SPEED DRIVE
W WATT
WH WITH
WS WET SWITCH
WSP WATER SOURCE HEAT PUMP
X EXISTING
ZD ZONE DAMPER

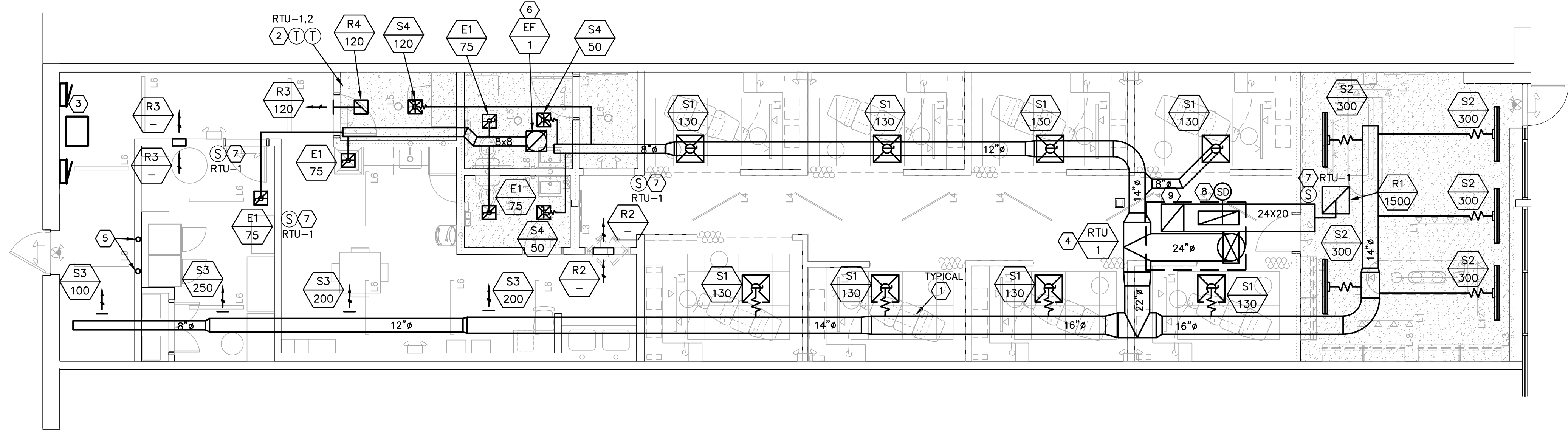
MUNICIPAL APPROVAL STAMP
HEYDAY ARCHITECTS
HEYDAY - ANN ARBOR - CRANBROOK VILLAGE
890 W. EISENHOWER PKWY ANN ARBOR, MI 48103
STATE OF MICHIGAN
DARRELL R. CASE ENGINEER No. 42745
6/3/22
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CASA ENGINEERING INC.
PERMIT / BID
Project Number: 22-067
Approved By: XX
Date: 05/11/2022
No. Issue: 06/03/2022
95% REVIEW
ISSUED FOR PERMIT & BID
MECHANICAL SPECIFICATIONS
M0-01

MECHANICAL KEYED NOTES

- 1 FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. ALL SIZES SHOWN ARE CLEAR INTERNAL DIMENSIONS. SEE DUCT CONSTRUCTION SCHEDULE FOR INSULATION REQUIREMENTS.
- 2 FURNISH AND INSTALL SEVEN-DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL AIR HANDING UNIT. MOUNT AT 48" AFF. VERIFY PROPER OPERATION IN FIELD. COORDINATE TYPE AND FINAL LOCATION WITH OWNER.
- 3 MAINTAIN CODE REQUIRED CLEAR SPACE ABOVE ELECTRICAL PANELS.
- 4 LANDLORD TO FURNISH AND INSTALL ROOFTOP UNIT. VERIFY EXACT LOCATION IN FIELD. CONTRACTOR SHALL PROVIDE NEW DUCTWORK TRANSITIONS FROM LANDLORD PROVIDED DUCT OPENINGS IN SPACE TO NEW DUCTWORK SHOWN. LANDLORD WORK TO INCLUDE NEW GAS METER AND ASSOCIATED GAS PIPING CONNECTIONS TO LANDLORD PROVIDED ROOFTOP UNIT.
- 5 ROUTE RIGID DRYER EXHAUST DUCTWORK FROM DRYER UP THROUGH ROOF TO ROOF CAP. EXHAUST MUST TERMINATE A MINIMUM OF 10'-0" FROM ALL BUILDING INTAKES. VERIFY SIZING AND MAX LENGTH WITH MANUFACTURER.
- 6 FURNISH AND INSTALL NEW ROOF MOUNTED EXHAUST FAN. FAN TO BE MOUNTED A MINIMUM OF 10'-0" FROM ALL BUILDING INTAKES. VERIFY EXACT LOCATION IN FIELD.
- 7 FURNISH AND INSTALL THERMOSTAT COMPATIBLE REMOTE TEMPERATURE SENSOR. WIRE SENSOR BACK TO THERMOSTAT IN OFFICE. COORDINATE TYPE AND FINAL LOCATION WITH OWNER.
- 8 FURNISH AND INSTALL NEW RETURN DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL DE-ENERGIZE UNIT UPON DETECTION OF SMOKE. COORDINATE WIRING REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- 9 ELBOW DUCT UP TOWARDS STRUCTURE AND TERMINATE OPEN ENDED WITH WIRE MESH ON END.

MECHANICAL GENERAL NOTES

- 1. DUCTWORK SHALL BE RUN ABOVE CEILING AS HIGH AS POSSIBLE IN GENERAL LOCATIONS SHOWN, BUT SHALL CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDINGS. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
- 2. LOCATE EQUIPMENT AND FIXTURES APPROXIMATELY AS SHOWN CONFORMING TO ALL ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL SUPPORTS, HANGERS AND OPENINGS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR CLEARANCES, AND EXACT LOCATIONS OF EQUIPMENT. ALL EQUIPMENT AND FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN FULL ACCORDANCE WITH ALL APPLICABLE CODES.
- 3. CEILING MOUNTED AIR DEVICES SHALL BE APPROXIMATELY AS SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. ALL CEILING DIFFUSERS TO BE 4-WAY UNLESS NOTED OTHERWISE BY AIRFLOW ARROWS, ON FLOOR PLAN. EXTEND FLEX DUCTWORK FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS AND CLAMPS TO BE USED AT BOTH ENDS.
- 4. DUCTWORK WITH TURNING VANES INSTALLED IN ALL ELBOWS OF SUPPLY AIR DUCTS, AIR EXTRACTORS AT ALL RECTANGULAR TAKE-OFFS, AND TWIST-IN TAP WITH MANUAL VOLUME DAMPER AT ALL ROUND BRANCH TAKE-OFFS TO AIR DEVICES.
- 5. DUCT SMOKE DETECTORS REQUIRED IN UNIT RETURN AIR DUCT SHALL BE IONIZATION TYPE AND SHALL BE APPROVED AND LISTED BY UL OR FM FOR DUCT INSTALLATION. ACTIVATION OF A DUCT DETECTOR SHALL CAUSE SHUTDOWN OF UNIT. CONTROL AND INTERLOCK WIRING SHALL RUN IN CONDUIT WHICH SHALL BE SIZED TO SUIT THE NUMBER, TYPE AND SIZE OF CONDUCTORS AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CONTROL AND INTERLOCK WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING PER NEC. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC. PROVIDE ALL APPROPRIATE ACCESS PANELS.
- 6. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT WITH SUB-BASE AS NOTED ON PLAN. TRANSFORMERS AND 24 VOLT CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING. THERMOSTATS SHALL BE MOUNTED 48" A.F.F. AND SET POINT SHALL BE AS FOLLOWS: COOLING 75°F; HEATING 70°F. VERIFY FINAL LOCATION AND SETPOINTS WITH OWNER.
- 7. BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.
- 8. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.
- 9. WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THRU SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN-IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
- 10. ALL EXHAUST OUTLETS WILL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE.
- 11. ALL ROOF WORK SHALL BE PERFORMED BY LANDLORD'S DESIGNATED ROOFER AT TENANT'S EXPENSE.
- 12. ALL SUPPLY AND RETURN DUCTWORK VISIBLE TO THE PUBLIC SHALL BE INTERNALLY LINED AND PAINTED BLACK.
- 13. SEE MECHANICAL CONTRACTOR SCOPE OF WORK DETAIL REGARDING CRYO EQUIPMENT.



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

HEYDAY
 HEYDAY - ANN ARBOR- CRANBROOK VILLAGE
 890 W. EISENHOWER PKWY
 ANN ARBOR, MI 48103



6/3/22

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 STATE OF MICHIGAN

Project Number: 22-087	Approved By: XX	Date: 05/11/2022
Drawn By:	Issue	06/03/2022
95% REVIEW	ISSUED FOR PERMIT & BID	

SHEET TITLE & NUMBER
MECHANICAL PLAN

M1-01

DUCT CONSTRUCTION SCHEDULE				
DUCT SYSTEM	MATERIAL	PRESSURE CLASS W.C.	SEAL CLASS	INSULATION
LOW PRESSURE SUPPLY	STEEL	2"	A	* TYPICAL; CONCEALED DUCTWORK: R-6 DUCT WRAP EXPOSED DUCTWORK: R-6 DUCT LINER
RETURN/TRANSFER DUCTS	STEEL	2"	A	1" DUCT LINER. 10'-0" FROM THE UNIT ONLY FOR RETURN
GENERAL EXHAUST	STEEL	2"	A	(NOT REQUIRED)
EXTERIOR DUCTWORK	STEEL/ALUM	4"	A	SEE DETAIL THIS SHEET

* CONTRACTOR CAN USE 1" DUCT LINER INSTEAD OF DUCT WRAP IN CONDITION SPACES.
 * CONTRACTOR CAN USE 1-1/2" Ø R5 DUCT LINER INSTEAD OF DUCT WRAP IN NON-CONDITION SPACES.

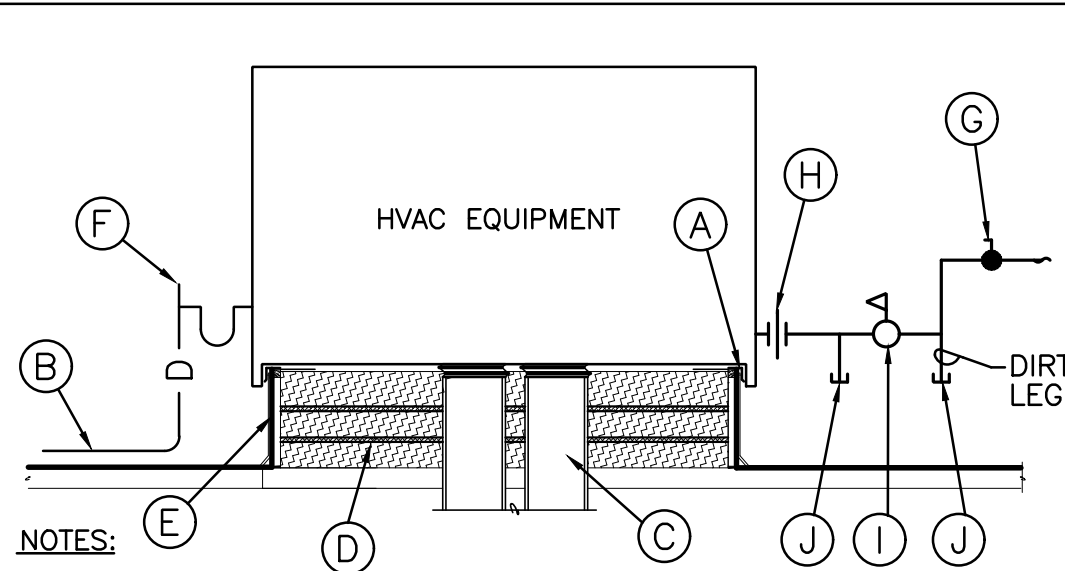
ALL DUCTWORK DIMENSIONS INDICATED ON THE PLANS ARE CLEAR, INSIDE DIMENSIONS. CONTRACTOR SHALL INCREASE SHEETMETAL SIZE AS REQUIRED TO ACCOMMODATE DUCT LINER.

GENERAL DUCTWORK NOTES

A. All rectangular ducts shall be "Pittsburgh Lock" longitudinal joints. Snaplock is not acceptable.
 B. All round ducts and flat oval ducts shall have spiral seams or continuously welded longitudinal seams.
 C. All transverse joints in rectangular ductwork 48" and larger shall be Ductmate, SMACNA T-25, or approved equivalent. All flanged ductwork, regardless of pressure class, shall use gaskets, corner closures, and be TEK screwed or riveted on 10" centers with a minimum of two (2) per side.
 D. Transverse joints in rectangular ductwork smaller than 48" shall be made in accordance with SMACNA suitable with the pressure class.
 E. All transverse joints in round and oval ductwork 24" and larger shall be Ductmate, or approved equivalent. Transverse joints in round and overall ductwork smaller than 24" shall be beaded sleeve joints.

ROOFTOP UNIT SCHEDULE (BY LL)																			
MARK	MFR	MODEL NO.	TONS	CFM	O.A. CFM	ESP	HP	COOLING			HEATING			ELECTRICAL			REMARKS		
								TOT.	SENS.	DB/WB	EAT	DB/WB	ELEC KW	GAS MBH	IN/OUT	EAT/LAT		MCA	MOCF
RTU-1	BRYANT	580JE12D	10	3510	350	0.8	2.5	124.1	96.2	80/67	55/55	N/A	180/148	60/90	24	30	460/3	1000	1,2,3

1. LANDLORD TO FURNISH AND INSTALL ROOFTOP UNIT. UNIT SHALL INCLUDE ECONOMIZER, NON-FUSED DISCONNECT, UNPOWERED CONVENIENCE OUTLET, 2 SPEED SUPPLY FAN WITH VFD, ROOF CURB OR ROOF CURB ADAPTER.
 2. CONTRACTOR SHALL REBALANCE LANDLORD PROVIDED UNIT TO SCHEDULED AIRFLOWS.
 3. VERIFY EXACT LOCATION AND PROPER OPERATION IN FIELD.



- NOTES:**
- (A) OMIT COUNTER FLASHING FOR EQUIPMENT WITH BUILT-IN COUNTER FLASHING.
 - (B) MINIMUM 3/4" OR FULL DIAMETER HOSE, SCREW TO CONDENSATE DRAIN, TERMINATE TO NEAREST ROOF DRAIN.
 - (C) SUPPLY & RETURN DUCTS WITH INSULATED LINING AND FLEXIBLE CONNECTIONS.
 - (D) 2 LAYERS EXTERIOR DRYWALL AND INSULATION FOR SOUND ATTENUATION.
 - (E) FACTORY CURB BY HVAC.
 - (F) OPEN TO ATMOSPHERE.
 - (G) GAS COCK
 - (H) UNION
 - (I) GAS PRESSURE REGULATOR
 - (J) FULL DIAMETER DIRT LEGS, MIN. 6" LONG

RTU CURB AND PIPING DETAIL
NO SCALE

FAN SCHEDULE												
MARK	MANUF	MODEL	SERVES	CFM	E.S.P. (" WC)	MOTOR RPM	TYPE	DRIVE	HP	VOLT/PH	WEIGHT	NOTES
EF-1	COOK	100C17DEC	RESTROOMS	300	0.6	1725	ROOF	ECM DIRECT	1/4	120/1	50	1,2,3

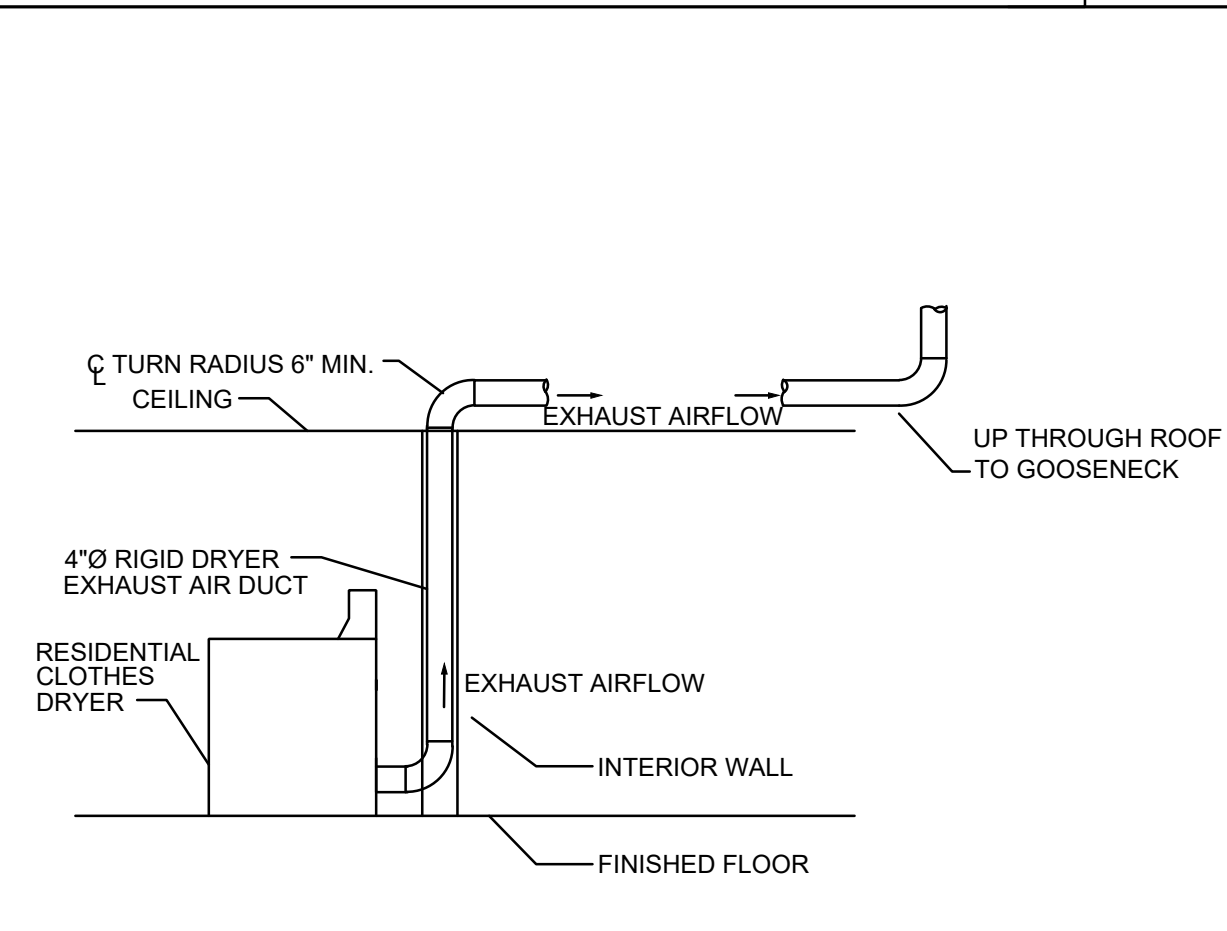
NOTES:

- VERIFY ELECTRICAL VOLTAGE WITH EC.
- PROVIDE ROOFTOP UNIT WITH ROOF CURB AND BACKDRAFT DAMPER.
- FAN TO BE CONNECTED TO TIMECLOCK AND RUN DURING ALL OCCUPIED HOURS.

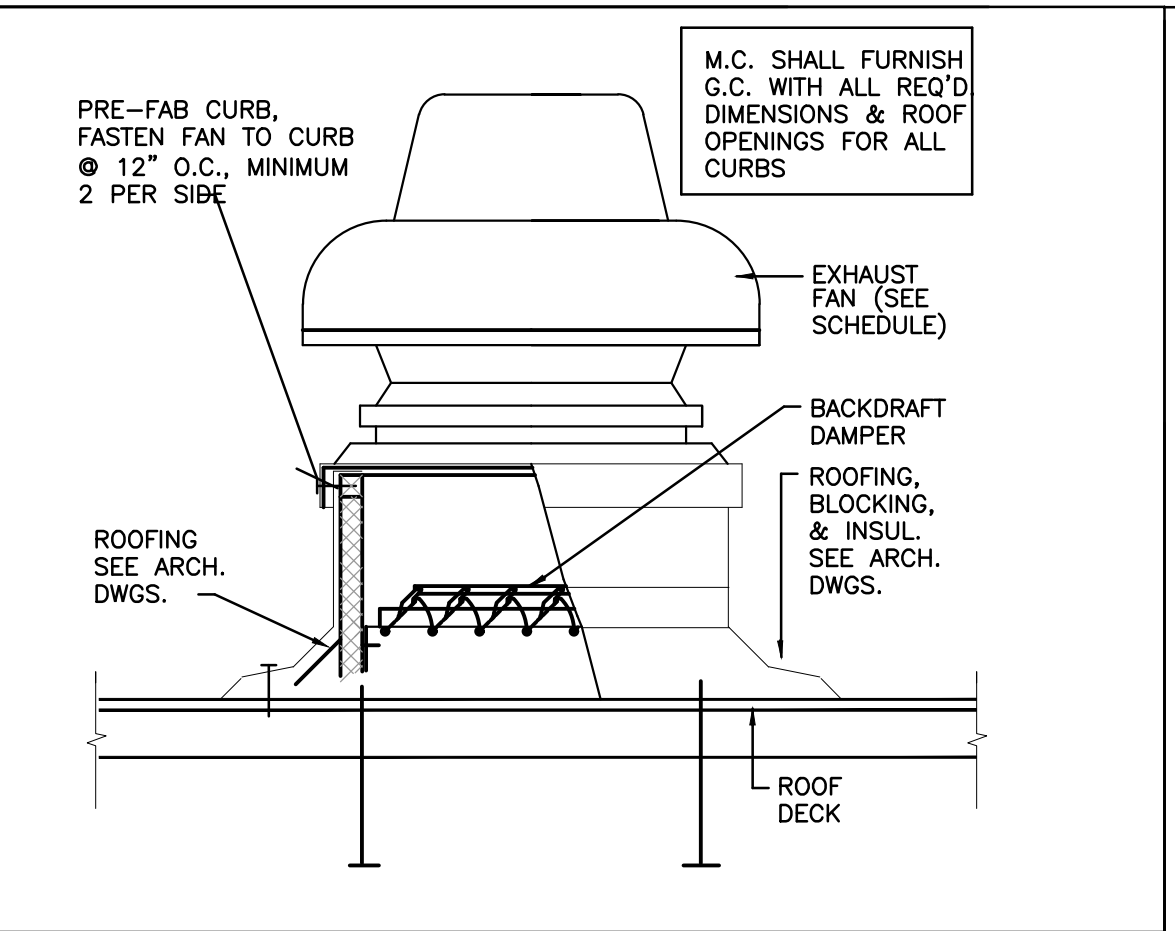
DIFFUSER NECK SIZE SCHEDULE	
NECK SIZE	CFM
6"	0 - 140
8"	150 - 250
10"	260 - 440
12"	450 - 600
14"	610 - 1000
16"	1010 - 1400
18"	1410 - 1900

AIR DEVICE SCHEDULE							
PLAN MARK	MANUFACTURER	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	NOTES
S1	TITUS	OMNI	AL	SCHED.	LAY-IN	24"x24"	1,2,4,5,7
S2	TITUS	ML-39	AL	SCHED.	FLANGED	48"x3"	1,2,5,7,8
S3	TITUS	300RL	ST	10"x6"	FLANGED	12"x8"	1,2,3,5,6
S4	TITUS	OMNI	AL	SCHED.	FLANGED	12"x12"	1,2,4,5,7
R1	TITUS	350RL	ST	SCHED.	FLANGED	24"x24"	1,2,5,6,7
R2	TITUS	350RL	ST	18"x14"	FLANGED	20"x16"	1,2,5,6,7
R3	TITUS	350RL	ST	12"x6"	FLANGED	14"x8"	1,2,3,5,6
R4	TITUS	350RL	ST	SCHED.	FLANGED	12"x12"	1,2,5,6,7
E1	TITUS	350RL	ST	SCHED.	FLANGED	12"x12"	1,2,5,6,7

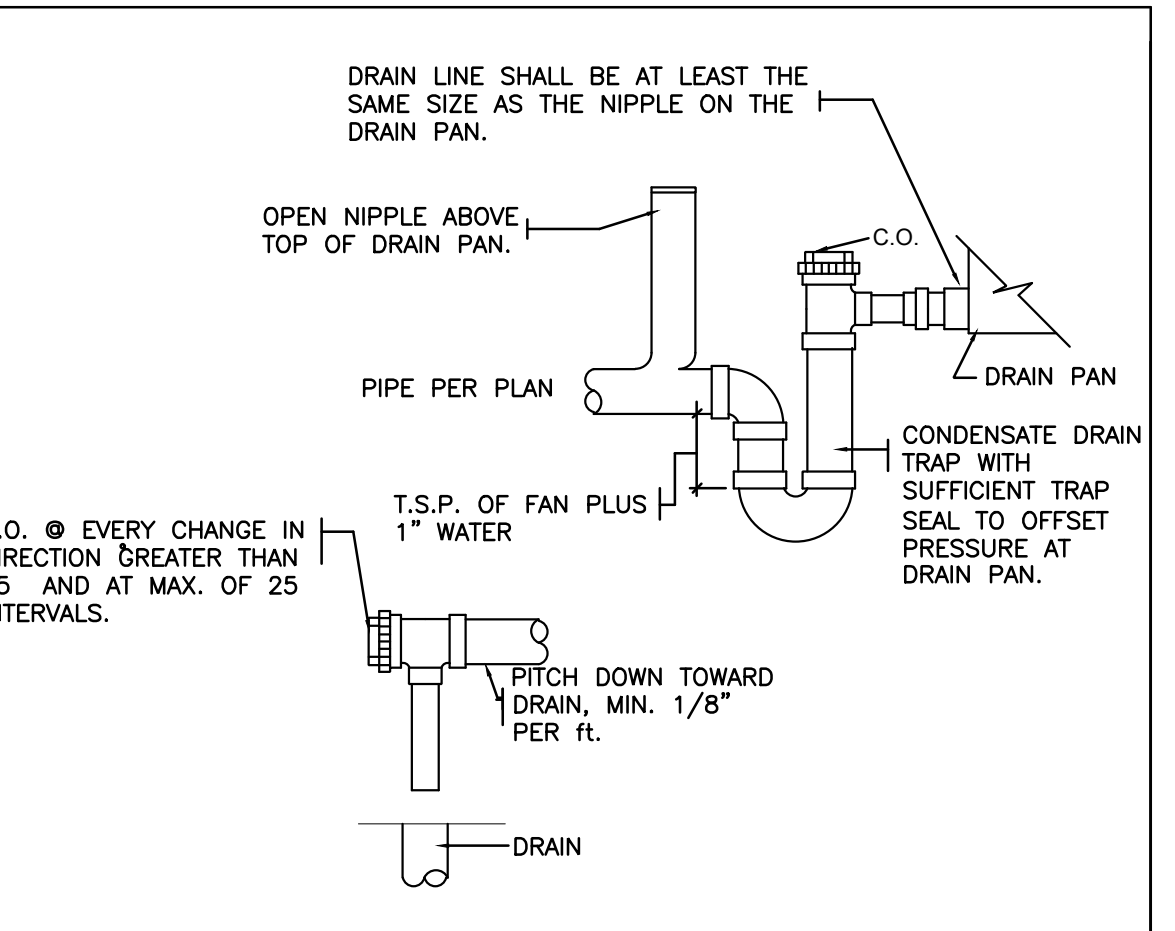
1. AIR DEVICE RUN-OUT SHALL BE SAME SIZE AS DIFFUSER NECK. FLEX DUCT, MAXIMUM LENGTH 5'-0".
 2. ALL AIR DEVICES TO BE WHITE UNLESS OTHERWISE NOTED. ALL AIR DEVICES TO BE PAINTED TO MATCH THE CEILING/WALL/DUCT, VERIFY COLOR WITH ARCHITECT.
 3. WALL/DUCT MOUNTED GRILLE.
 4. PROVIDE INSULATED BACKPAN.
 5. MAX NC LEVELS OF 30 OR LESS.
 6. ALL SURFACE MOUNTED DIFFUSERS TO INCLUDE OPPOSED BLADE DAMPER.
 7. CONTRACTOR TO VERIFY FRAME TYPES REQUIRED PRIOR TO ORDERING.
 8. 1" SLOT, 2 SLOT, PROVIDE WITH INSULATED PLENUM AND FACE OPERATE REMOTE DAMPER.



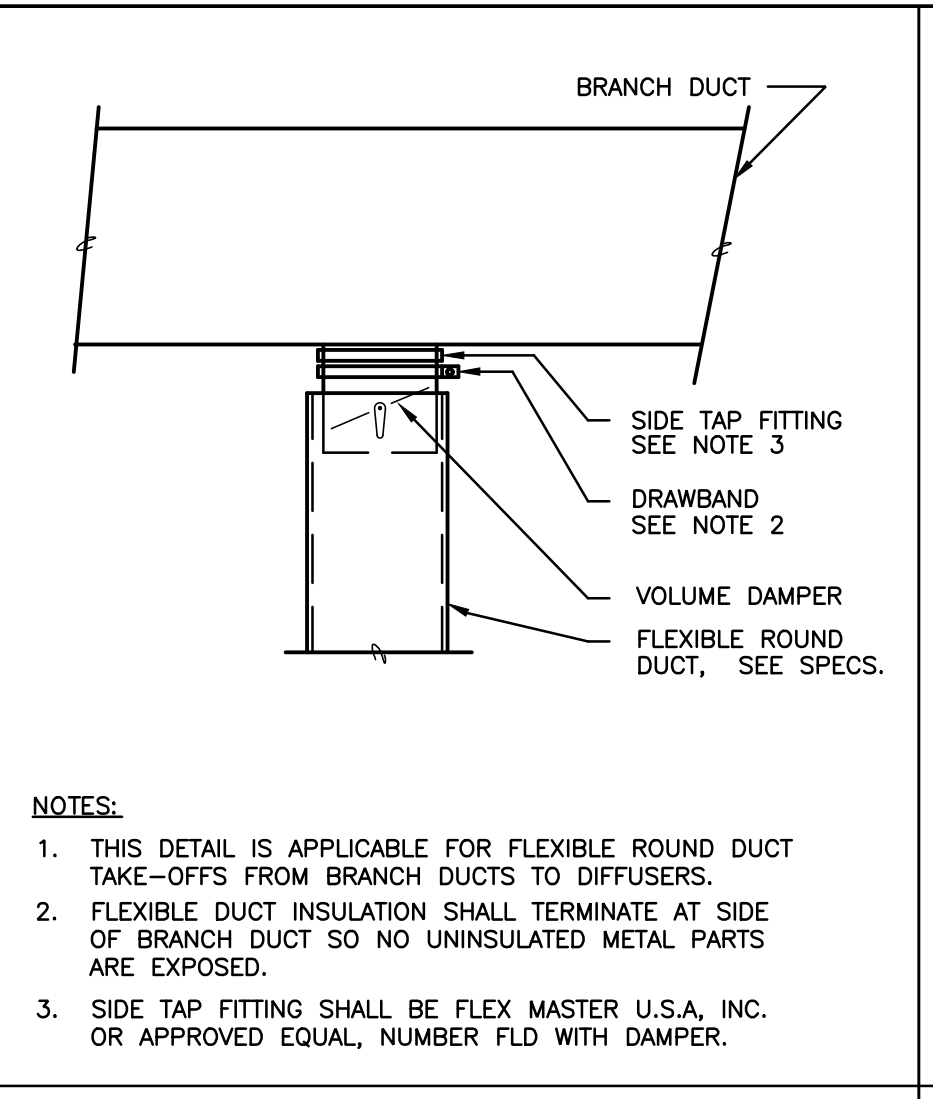
DRYER EXHAUST DETAIL
NO SCALE



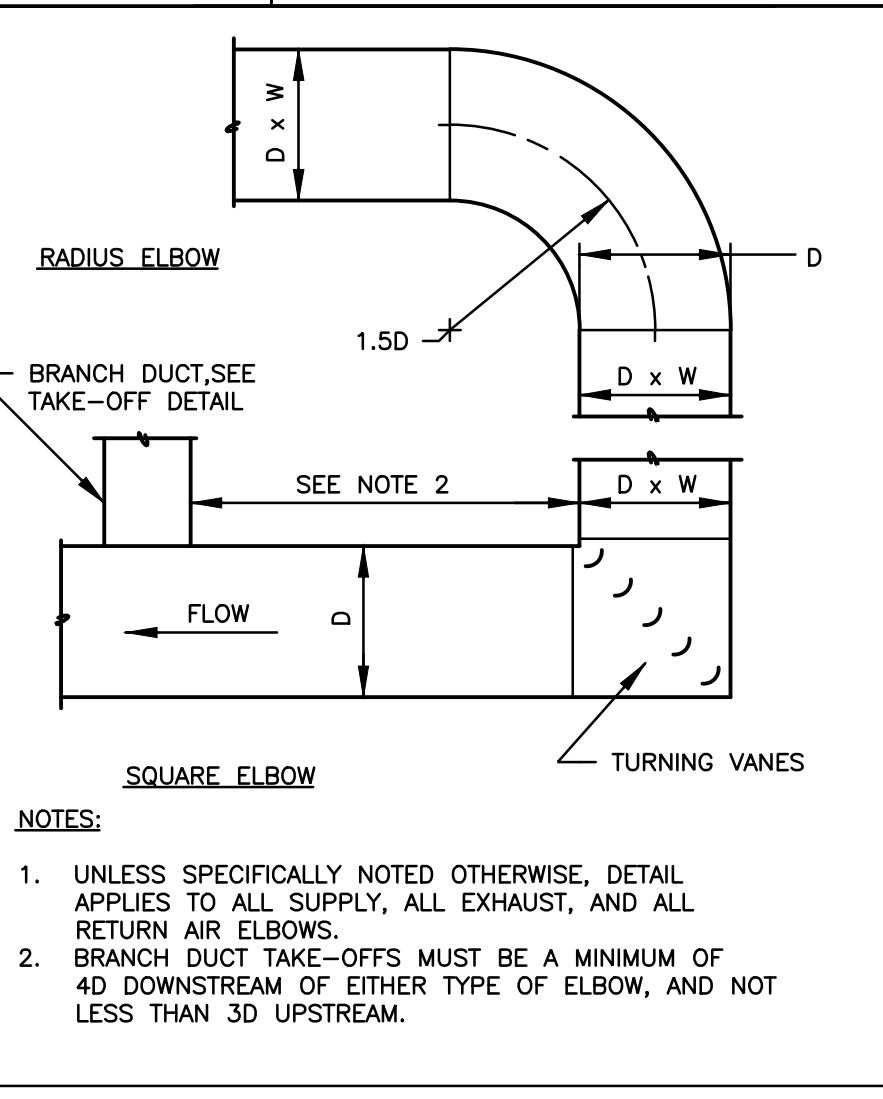
ROOF MOUNTED FAN
NO SCALE



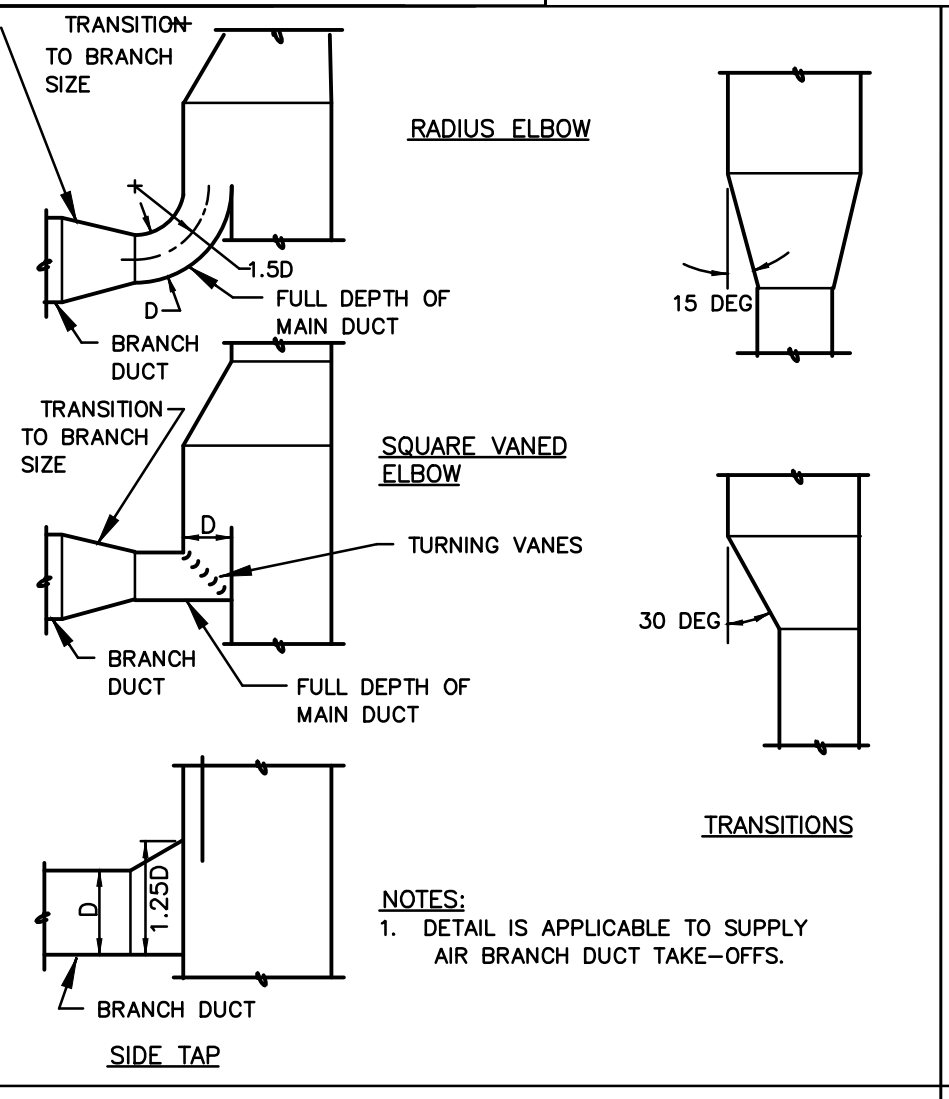
CONDENSATE DRAIN TRAP DETAIL
NO SCALE



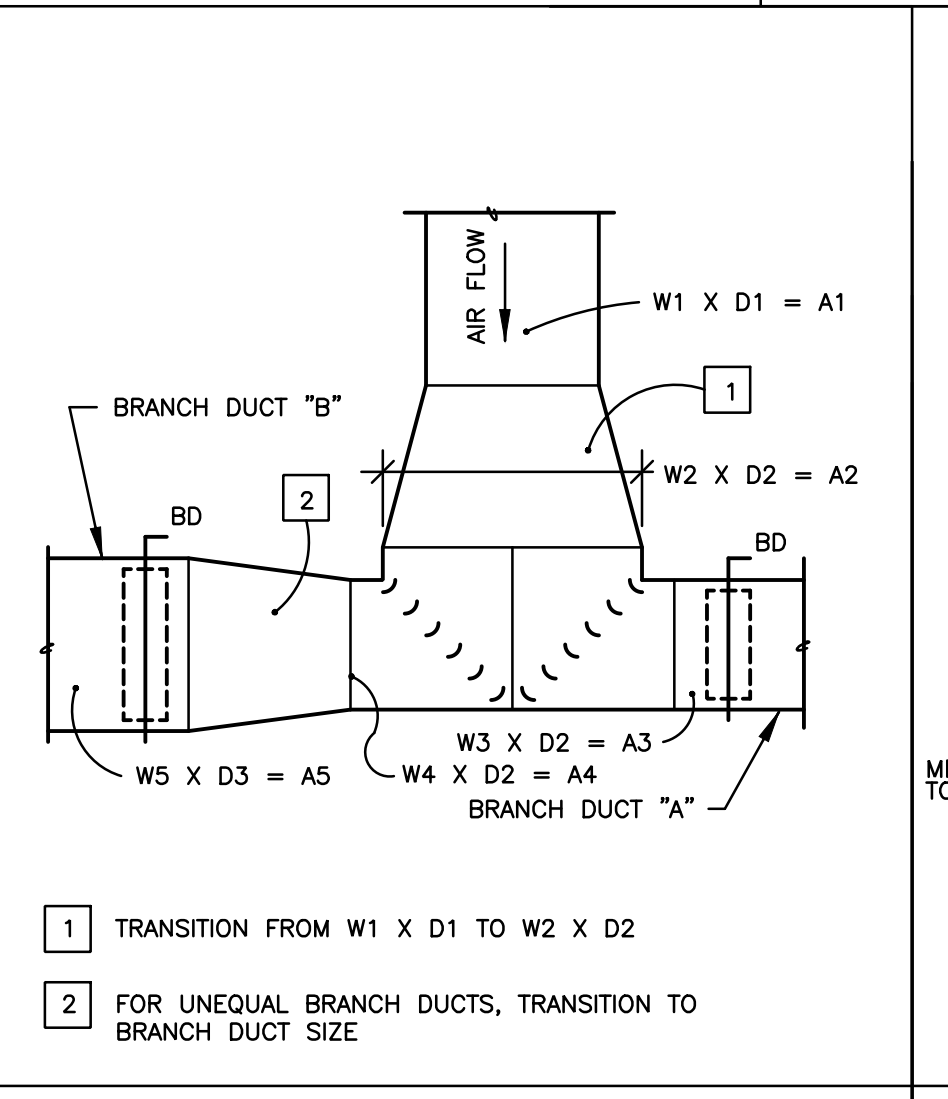
FLEXIBLE DUCT CONNECTION TO BRANCH
NO SCALE



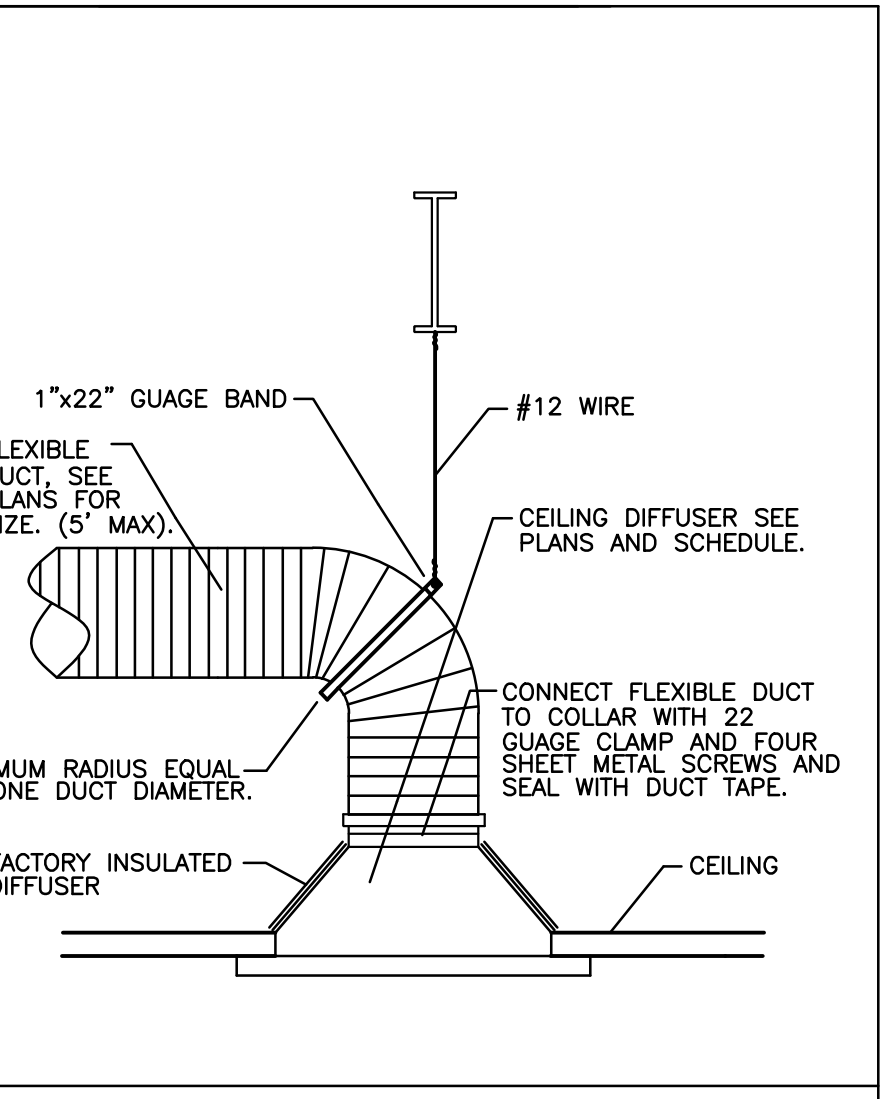
DUCT ELBOW
NO SCALE



BRANCH DUCT TAKEOFFS AND TRANSITIONS
NO SCALE



DUCT TEE FITTING
NO SCALE



DIFFUSER INSTALLATION DETAIL
NOT TO SCALE

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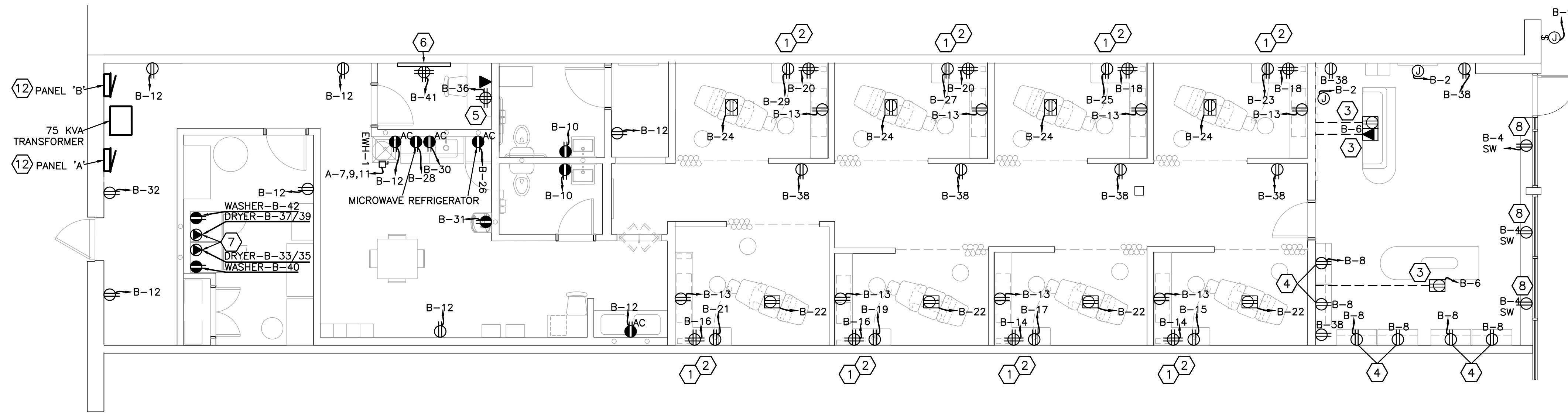
PERMIT / BID

Project Number: 22-087
 Drawn By: [Blank]
 Approved By: [Blank]
 Date: 05/11/2022
 Issue: 95% REVIEW
 Issued For: PERMIT & BID

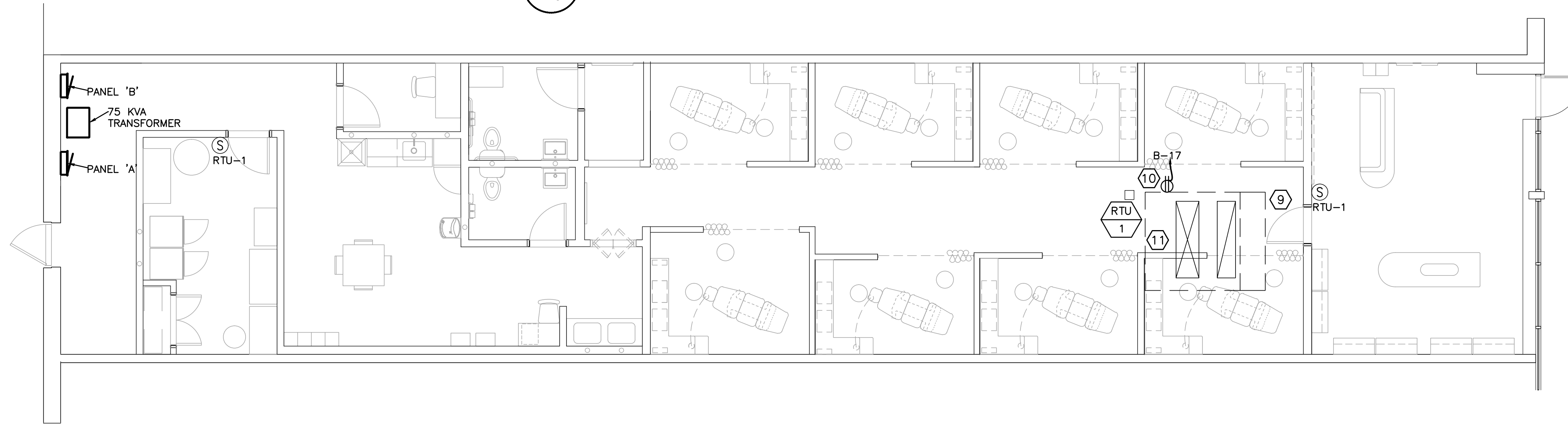
MECHANICAL DETAILS AND SCHEDULES

M2-01

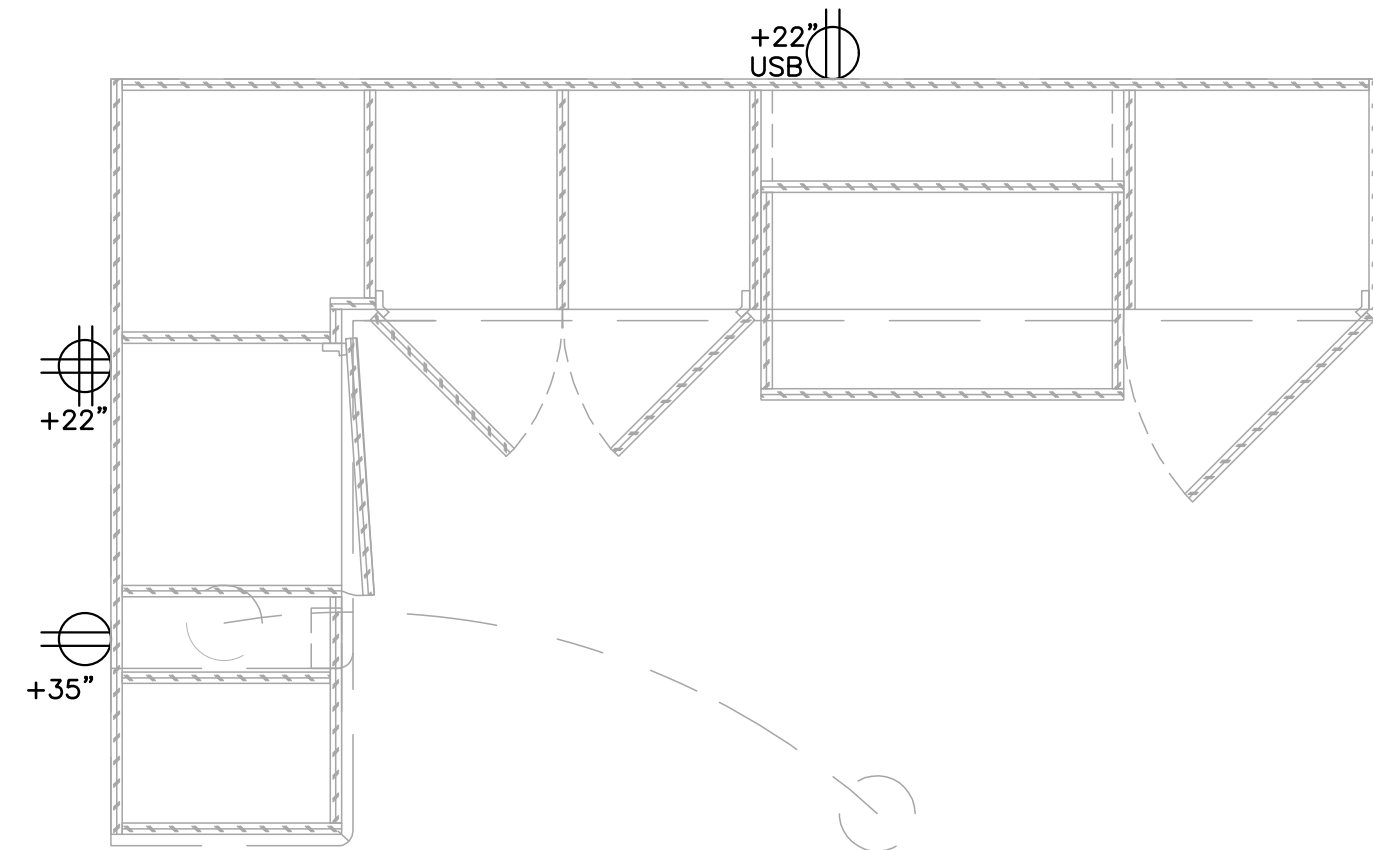
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1 ELECTRICAL POWER PLAN
E1-01 SCALE: 3/16" = 1'-0"



3 ELECTRICAL ROOF TOP PLAN
E1-01 SCALE: 3/16" = 1'-0"



2 MILLWORK ELECTRICAL DIAGRAM
E1-01 SCALE: NOT TO SCALE

- ### KEYED ELECTRICAL NOTES
- GC TO PROVIDE "APC" SURGE ARREST DEDICATED RECEPTACLE IN TREATMENT ROOMS. G.C. TO VERIFY EXACT WATTAGE OF HIGH FREQUENCY WANDS, AND SIZE SURGE ARRESTER ACCORDINGLY.
 - EC TO REFER TO ARCHITECTURAL MILLWORK PLAN FOR RECEPTACLE LOCATIONS. REFER TO MILLWORK ELECTRICAL PLAN ON THIS SHEET FOR RECEPTACLE MOUNTING HEIGHTS.
 - GC TO PROVIDE AN ELECTRICAL TRENCH IN EXISTING FLOOR FROM WALL INTO DUPLEX RECEPTACLE AND DATA MOUNT INSIDE OF BOTTOM CABINET. EC SHALL PATCH AND REPAIR AS NECESSARY. PRIOR TO CUTTING/TRENCHING THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA. COORDINATE ALL EXISTING UNDERGROUND UTILITY LOCATION WORK AND ALL CUTTING/TRENCHING WORK WITH THE GENERAL CONTRACTOR AND THE LANDLORD.
 - GC TO COORDINATE WITH MILLWORK ON ALL POWER LOCATIONS. HEYDAY TO CONFIRM FIXTURE OUTLETS TO BE LOCATED AT BOTTOM OF MILLWORK CAPPING.
 - STAFF DESK TO RECEIVE DATA (3 CAT6) AND DUPLEX / QUAD.
 - EC TO PROVIDE 3/4"x4"x4" FIRE RATED TELECOM BACKBOARD WITH PREDRILLED, 12"x4" BICSI, TELECOM GROUND BUS. PROVIDE 1#6AWG GROUND BACK TO MAIN BUILDING SERVICE GROUND. MOUNT BACKBOARD TIGHT TO UNDERSIDE OF CEILING. EXTEND LANDLORD PROVIDED EMPTY CONDUIT TO THIS LOCATION
 - EC TO PROVIDE A NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYERS PROVIDE 3#10, 1#10G.
 - EC TO PROVIDE DUPLEX RECEPTACLE ABOVE STORE FRONT FENESTRATION PER NEC 210.62.
 - EXISTING RTU TO REMAIN, EXISTING CONDUIT AND CONDUCTORS, AND MEANS OF DISCONNECT TO REMAIN. EC TO FIELD VERIFY RTU, CONDUCTORS/CONDUIT, AND DISCONNECT SWITCH ARE NEC COMPLIANT.
 - EXISTING RTU CONVENIENCE RECEPTACLE TO REMAIN, EC TO FIELD VERIFY EXISTING RECEPTACLE IS WEATHER PROOF TO COMPILE WITH NEC.
 - EC TO FIELD VERIFY EXISTING SMOKE DETECTOR TO REMAIN, EC TO FIELD VERIFY TO EXISTING SMOKE DETECTOR IS IN WORKING CONDITION AS SPECIFIED BY MANUFACTURER, EC TO PROVIDE SMOKE DETECTOR AND WORK AS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM.
 - EXISTING PANELS 'A' & 'B' TO NEW LOCATIONS SHOWN. EC TO PROVIDE WORK AS NECESSARY TO ENSURE FULLY FUNCTIONAL SYSTEM.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
WP	WEATHERPROOF
NL	NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT NOTED)
GFI	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE
ST	SHUNT TRIP CIRCUIT
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
TTB	TELEPHONE TERMINAL BOARD
PROVIDE	FURNISH AND INSTALL COMPLETE
⊙	JUNCTION BOX, MOUNTING HEIGHT
⊕	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)
⊕⊕	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
⊕⊕⊕	20A, 1P, 125V, GFCI TYPE DUPLEX RECEPTACLE
⊕⊕⊕⊕	SPECIAL USE RECEPTACLE, COORDINATE WITH EQUIPMENT SUPPLIER
⊕⊕⊕⊕⊕	CEILING MOUNTED EXHAUST FAN WITH MANUAL DISCONNECT
⊕⊕⊕⊕⊕⊕	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 3 POLE
\$	LIGHT SWITCH
\$3	LIGHT SWITCH (3 WAY)
\$4	LIGHT SWITCH (4 WAY)
\$OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'-6" AFF TO CENTERLINE (WATT STOPPER #DW100-WH OR EQUAL)
⊕⊕⊕	CEILING MOUNTED DAYLIGHT SENSOR SWITCH
⊕⊕⊕⊕	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH (WATT STOPPER #DT-355 OR EQUAL)
⊕	DIMMER SWITCH: LUTRON NOVA SERIES DIMMERS COMPATIBLE WITH LOW VOLTAGE LIGHTING FIXTURES AND RATED FOR LOAD NOTED IN PANEL SCHEDULE. REFER TO LOADS AT PANELBOARD SCHEDULE. MOUNTING HEIGHT AS INDICATED PER PLAN.
▷	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.
⊕⊕⊕⊕⊕	CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL INCLUDE EQUIPMENT GROUND SIZED PER NEC. HASH MARK AHEAD OF NEUTRAL INDICATES UNSWITCHED LEG. CURLED HASH MARK INDICATES DEDICATED GROUND WIRE REQUIRED.
+12"	12" ABOVE FINISHED FLOOR TO CENTERLINE
▭	PANELBOARD
⊕	LIGHTING FIXTURE SWITCHING DESIGNATION - LETTER 'F' INDICATES THE FIXTURE TYPE (SEE FIXTURE SCHEDULE) THE NUMBER '5' INDICATES THE CIRCUIT IN THE PANEL NOTED AND THE LOWER CASE LETTER 'd' INDICATES THE SWITCH LEG TO CONNECT THE FIXTURE TO.
F 5g	

RECEPTACLE NOTES

- ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER OR A DEAD FRONT GFI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION SHALL USED TO FEED THE CIRCUIT NOTED.
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

GENERAL NOTES

- EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRED BRANCH CIRCUITS PER NEC 210.4(B).
- ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.
- EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.

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 ENGINEER
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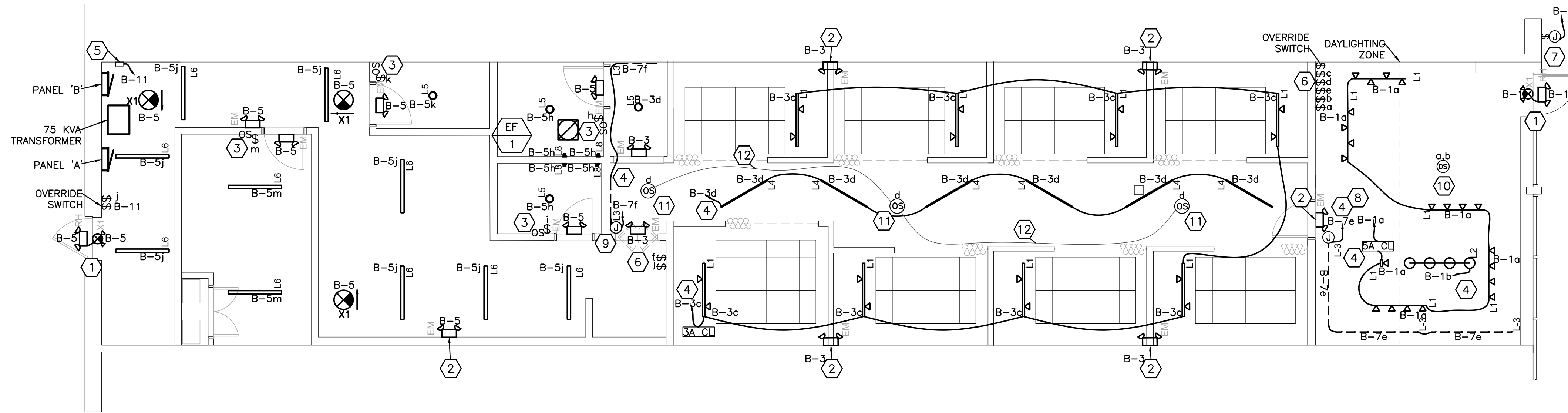
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PERMIT / BID

Project Number: 22-087	Approved By: XX	Date: 05/11/2022
Drawn By:	Issue	95% REVIEW
	ISSUED FOR PERMIT & BID	06/03/2022

SHEET TITLE & NUMBER
ELECTRICAL POWER PLAN
E1-01

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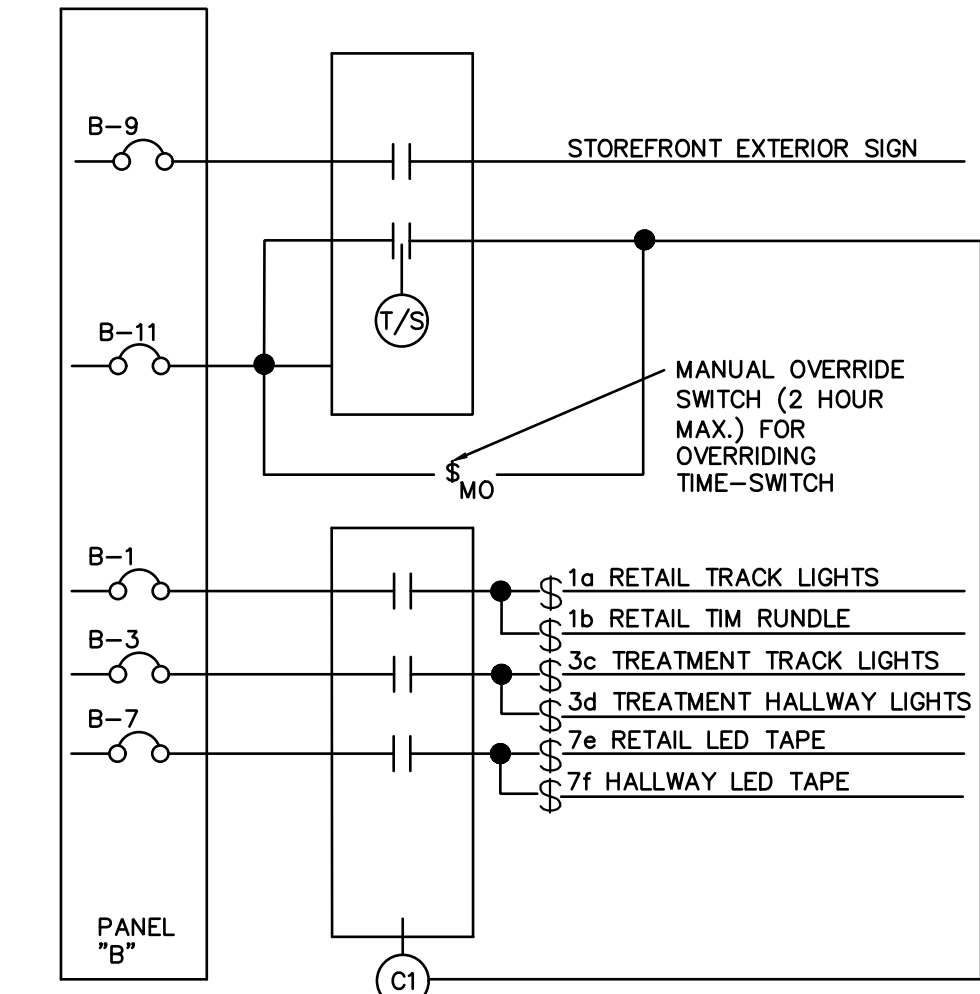
GENERAL NOTES

1. PLACEMENT OF LIGHT FIXTURES SHALL BE SET AS DIMENSIONED & AS SCHEDULED.
2. LIGHT FIXTURES SHALL BE SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS.
3. MINIMUM WIRE SIZE SHALL BE NO. 12 COPPER.
4. ALL EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AHEAD OF THE SWITCHING. EMERGENCY LIGHTING SHALL BE ON THE SAME CIRCUITRY AS THE GENERAL LIGHTING IN THE AREA THEY SERVE. EMERGENCY LIGHTING WIRING SHALL BE IDENTIFIED (MARKED) PER NEC 700.9. PROVIDE GENERAL LIGHTING CIRCUITS, WHICH HAVE EMERGENCY LIGHTING CONNECTIONS, WITH LOCK-OUT ON BREAKER.

KEYED NOTES

- 1 CONNECT EXIT SIGN WITH REMOTE EGRESS DUAL HEAD FIXTURE AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING THIS AREA.
- 2 CONNECT NIGHT/EXIT/EMERGENCY LIGHT AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING THIS AREA.
- 3 EC TO PROVIDE OCCUPANCY SENSOR SWITCH, SEE ELECTRIC SYMBOLS.
- 4 ROUTE CIRCUIT THRU SWITCH/DIMMER AT SALES COUNTER AND BACK THRU TIME SWITCH CONTROLLED CONTACTOR. EC TO PROVIDE UNSWITCHED HOT LEG TO ALL EMERGENCY AND EXIT LIGHTS ON CIRCUIT AS NOTED.
- 5 EC TO PROVIDE INTERMATIC ET2125C TIME SWITCH AND CONTACTORS AS REQUIRED TO CONTROL LIGHTS AND SIGNAGE.
- 6 VERIFY FINAL LOCATION OF SWITCHBANK WITH OWNER PRIOR TO ROUGH-IN.
- 7 EC TO PROVIDE 120 VOLT, 1Ø POWER FOR SIGN. PROVIDE NON-FUSED DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING. PROVIDE DEDICATED #10 COPPER GROUND WIRE FROM EQUIPMENT GROUND BUS IN PANEL FOR CIRCUIT SERVING SIGN. DO NOT USE CONDUIT AS A GROUND. FIELD VERIFY EXACT LOCATION OF ROUGH-IN WITH OWNER REPRESENTATIVE. RUN THE CIRCUIT THROUGH THE TIME SWITCH.
- 8 EC TO PROVIDE NOVA FLEX 120VAC-24VDC POWER SUPPLY #NF-PS-96W-24V-0/10V FOR CONNECTION TO LED STRIP LIGHTING IN ACCESSIBLE LOCATION.
- 9 EC TO PROVIDE NOVA FLEX 120VAC-24VDC POWER SUPPLY #NF-PS-MAXX-30W-24V-0/10V. FOR CONNECTION TO LED STRIP LIGHTING IN ACCESSIBLE LOCATION.
- 10 EC TO PROVIDE CEILING MOUNTED DAYLIGHT HARVESTING SENSOR COMPATIBLE WITH LIGHT FIXTURES BEING CONTROLLED AS NOTED ON PLAN.
- 11 EC TO PROVIDE LOW VOLTAGE CEILING MOUNTED OCCUPANCY AT LOCATIONS SHOWN ON PLAN. OCCUPANCY SENSOR SHALL BE COMPATIBLE WITH LIGHT FIXTURES BEING CONTROLLED.
- 12 EC TO PROVIDE CAT6 CABLE AS REQUIRED PER MANUFACTURER'S REQUIREMENTS.

1 ELECTRICAL LIGHTING PLAN
E2-01 SCALE: 3/16" = 1'-0"



2 TIMECLOCK DIAGRAM
E2-01 SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		VOLTAGE	MOUNTING	WATTS	FIXTURE DESCRIPTION
			QTY	TYPES				
L1	LUMENTURE	T50-30H-1100-22-W-J	-	LED	120	SUSPENSION	15	VARIABLE SIZED TRACKS WITH (2-4) TRACK HEADS (WHITE) PER
L2	TIM RUNDLE	COR-LS4LEF435LTGC(950) UNVDBSILVERACSD	1	LED	100/130	SUSPENSION	24	HANGING MOUNTED 6'-0" AFF
L3	NOVAFLEX	NF-DS-0-160-24V-3000K	-	LED	24	SUSPENSION	4.4W/FT	90+ CRI LED STRIP LIGHTING, 4.4 W/FT
L4	KUZCO	VEGA MINOR LED LIGHTING SUSPENSION	5	LED	120	SUSPENSION	40	MINOR LED LINEAR SUSPENSION, MOUNTED 8'-0" AFF
L5	ALPHABET	ALP-NU4RDSW20LM35K80D60N LUNVDIM10(ELV)NCMCMC	8	LED	120/277	RECESSED	22	MOUNTED FLUSH TO CEILING
L6	LUMINAIRES	TCPGPS2UZDA8xxK	6	LED	120/277	CEILING MOUNTED	32	2'X4' LED STRIP LIGHT AT ROOMS w/ NO CEILING FIXTURE
L8	KUZCO	VEGA WALL LIGHT: FINISH GOLD	3	LED	120/277	WALL MOUNTED	15	-
X1	LITHONIA LIGHTING	LHQM-LED-R-HO-BAA	3	LED	120/277	WALL MOUNTED	4	EMERGENCY EXIT SIGNS MOUNTED OVER ENTRANCES
EM	EXITRONIX	LED-95-WH-G2	11	LED	120/277	WALL MOUNTED	2	EMERGENCY LIGHTS
RH	LITHONIA	ELMRW LP220L DWHXD T	2	LED	120/277	WALL MOUNTED	2	OUTSIDE EMERGENCY LIGHT WITH MINIMUM 90 MINUTE BATTERY BACKUP AND HEATER FOR OPERATING TEMP RANGE OF 0F AND 122F

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Project Number: 22-087	Approved By: XX	Date: 05/11/2022
Drawn By:	Issue	06/03/2022
95% REVIEW ISSUED FOR PERMIT & BID		

ELECTRICAL LIGHTING PLAN
E2-01

Table with columns: LOCATION: SURFACE, 277/480, 3-PHASE, 4W, PANEL A, CAPACITY: 200A, INT CAP: 10KA. Includes circuit details for ROOFTOP UNIT - 1 and ELECTRIC WATER HEATER.

PHASE BALANCE table with columns: PHASE, LOAD, %, RECEPTACLE, CONNECTED, DEMAND, DEMAND FORMULA, TOTAL LOAD.

NOTES: A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER. B. PROVIDE LOCK ON DEVICE FOR UNIT EQUIPMENT.

Table with columns: LOCATION: SURFACE, 120/208, 3-PHASE, 4W, PANEL B, CAPACITY: 200A, INT CAP: 10KA. Includes circuit details for various rooms like FOH, TREATMENT ROOMS, and RESTROOM REC.

PHASE BALANCE table with columns: PHASE, LOAD, %, RECEPTACLE, CONNECTED, DEMAND, DEMAND FORMULA, TOTAL LOAD.

NOTES: A. CIRCUIT BREAKER GFCI - INDICATES 5mA TRIP GFCI TYPE CIRCUIT BREAKER. B. PROVIDE LOCK ON DEVICE FOR UNIT EQUIPMENT.

EQUIPMENT SCHEDULE table with columns: PLAN MARK, EQUIPMENT SERVED, LOAD, VOLT/PHASE, FED BY, DISC BY, MCA, MOCPP, FEEDER, REMARKS.

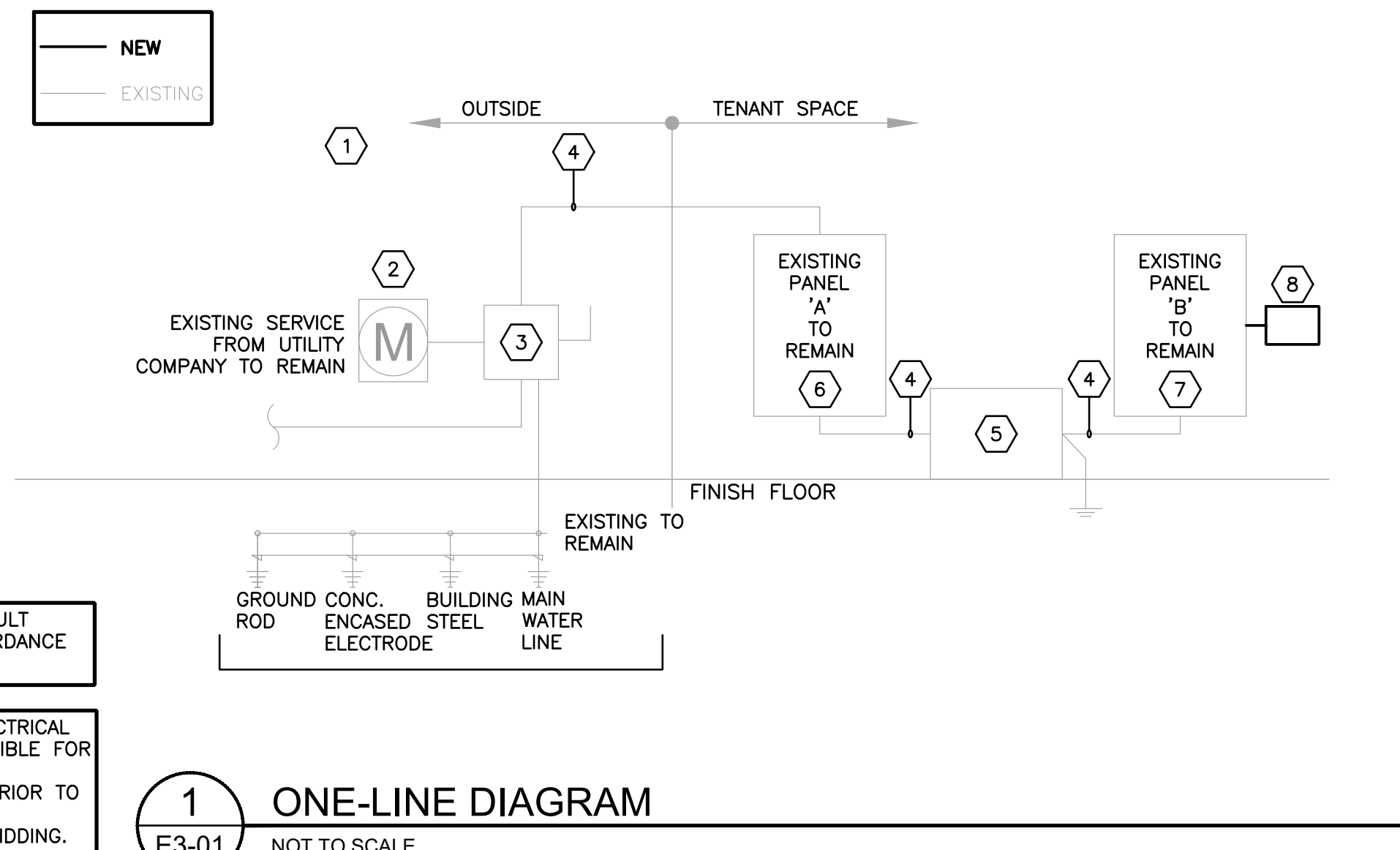
NOTES: 1. RECIRCUIT EXISTING MECHANICAL EQUIPMENT AS SHOWN ON PLANS AND PANEL SCHEDULE.

2 PANEL SCHEDULE E3-01 NOT TO SCALE

FAULT CURRENT CALCULATIONS WERE PERFORMED BY CASE ENGINEERING BASED ON AN ASSUMED TRANSFORMER KVA RATING AND ASSUMED TRANSFORMER IMPEDANCE VALUE FOR THE UTILITY COMPANY TRANSFORMER TO ESTABLISH BASIS OF DESIGN AIC RATINGS AS IDENTIFIED ON THE DRAWINGS.

NEW PANELS SHALL BE LABELED TO IDENTIFY THE AVAILABLE FAULT CURRENT AND THE ARC FLASH HAZARD AT THE PANEL IN ACCORDANCE WITH NEC REQUIREMENTS.

ALL INFORMATION REGARDING CURRENT CONDITIONS OF THE ELECTRICAL SERVICE ARE VIA SECOND PARTY FIELD SURVEY. EC IS RESPONSIBLE FOR FIELD VERIFICATION OF SITE CONDITIONS AND REPORTING ANY DIFFERENCES OR DISCREPANCIES TO OWNERS REPRESENTATIVE PRIOR TO BID.



1 ONE-LINE DIAGRAM E3-01 NOT TO SCALE

- ONE-LINE DIAGRAM KEYED NOTES: 1 EC TO FIELD VERIFY CONFIGURATION AND CHARACTERISTICS OF EXISTING EQUIPMENT. 2 EXISTING 200A 3P, 4W, ELECTRICAL METER TO REMAIN.

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Professional Engineer Seal for Darrell R. Case, No. 42745, State of Michigan.

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PERMIT / BID table with columns: Project Number, Drawn By, Date, Issue, Approved By, Issued For Permit & Bid.

ELECTRICAL PANEL SCHEDULE E3-01

SUMMARY
A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFICATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SPECIFICATIONS AND AS SUCH SHALL BE APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACTOR.

LANDLORDS REQUIREMENTS
A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT.

EXISTING CONDITIONS
A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.

BIDS AND SUBSTITUTIONS
A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEPP CONSTRUCTION DOCUMENTS.

QUALITY ASSURANCE
A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL AND FULLY OPERATIONAL ELECTRICAL SYSTEM.

PERMITS, ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.

CODES AND STANDARDS
A. COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.

INTERNATIONAL BUILDING CODE
a. INTERNATIONAL ENERGY CONSERVATION CODE
b. INTERNATIONAL MECHANICAL CODE
c. INTERNATIONAL ELECTRICAL CODE
d. INTERNATIONAL FIRE CODE
e. INTERNATIONAL FIRE CODE
f. LIFE SAFETY CODE, NFPA 101
g. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES

UNDERWRITERS LABORATORIES, INC. (UL) REFERENCED STANDARDS:
1. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED WITH THE APPLICABLE INDUSTRY STANDARDS.

ELECTRICAL CONTRACT DOCUMENTS
A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK.

RECORD DOCUMENTS
A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

COORDINATION WITH LANDLORD AND UTILITY COMPANIES
A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE.

COORDINATION WITH OTHER TRADES
A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WITH THE WORK OF OTHER TRADES.

REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS.

AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS,

2. DIMENSIONS OR OTHERWISE THAT MAY EXIST.
3. AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER.
B. SHOP DRAWINGS:
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, OF ALL EQUIPMENT SHALL BE CERTIFIED. SEE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL COORDINATION DRAWINGS
A. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.
B. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.

SHORT CIRCUIT STUDY
A. PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.

GROUNDING
A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE NEC REQUIREMENTS.

CONDUIT AND FITTINGS
A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

RECORD DOCUMENTS
A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

COORDINATION WITH LANDLORD AND UTILITY COMPANIES
A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE.

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A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WITH THE WORK OF OTHER TRADES.

REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS.

AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS,

EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.
G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.
TEMPORARY POWER
A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY POWER AND LIGHTING TO ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR CONTRACT.

SEQUENCING AND SCHEDULING
A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS AND THE PROJECT PHASING PLAN.
A. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.

SHORT CIRCUIT STUDY
A. PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.

GROUNDING
A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE NEC REQUIREMENTS.

CONDUIT AND FITTINGS
A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

RECORD DOCUMENTS
A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

COORDINATION WITH LANDLORD AND UTILITY COMPANIES
A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE AND AUTHORIZED REPRESENTATIVES OF EACH SERVING UTILITY THAT WILL PROVIDE SERVICE TO THIS SITE.

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CONDUCTORS #12 AND #10 AWG SHALL BE SOLID; #8 AWG AND LARGER SHALL BE STRANDED.
C. THE USE OF ALUMINUM CONDUCTORS IS NOT ACCEPTABLE.
D. EXPOSED, INTERIOR FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.
E. FEEDERS INSTALLED CONCEALED IN CEILING, WALLS, PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN CONDUIT.

SEQUENCING AND SCHEDULING
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PROVIDE SPECIAL PURPOSE RECEPTACLES HAVING NEMA CONFIGURATIONS THAT MATE AND MATCH THE NEMA PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT TO BE CONNECTED.
E. COVER PLATES FOR EXTERIOR RECEPTACLES SHALL BE RATED FOR "WEATHERPROOF" WHILE IN USE".
F. DEVICE COVER SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.
G. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES AND RECEPTACLES: LEGRAND, LEVITON.

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PROVIDE A 120 VOLT POWER SOURCE TO ALL DUCT MOUNTED SMOKE DETECTORS INSTALLED WITHIN NEW AND EXISTING ROOF TOP UNITS.
B. PROVIDE A DUCT MOUNTED SMOKE DETECTORS WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. FINAL ELECTRICAL CONNECTION AND ALL INTERLOCK WIRING BY THE ELECTRICAL CONTRACTOR.
C. PROVIDE ALL INTERLOCK WIRING IN CONDUIT BETWEEN ALL DUCT DETECTORS SUCH THAT UPON DETECTING SMOKE IN ANY ONE DETECTOR, ALL ROOF TOP UNITS SHALL BE SHUT DOWN.
D. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCATION AHI. EC TO PROVIDE ALL REQUIRED INTERLOCK WIRING BETWEEN DUCT DETECTOR AND REMOTE SWITCH.
E. REFER TO DETAILS ON MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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HEYDAY HEYDAY - ANN ARBOR- CRANBROOK VILLAGE 890 W. EISENHOWER PKWY ANN ARBOR, MI 48103

STATE OF MICHIGAN PROFESSIONAL ENGINEER DARRILL R. CASE ENGINEER No. 42745

6/3/22

D&XU ARCHITECTS 412 E. Washtenaw Street, Ann Arbor, MI 48106 P: 734.763.1331 • F: 734.763.1331 • www.d&xu.com CONSULTANT

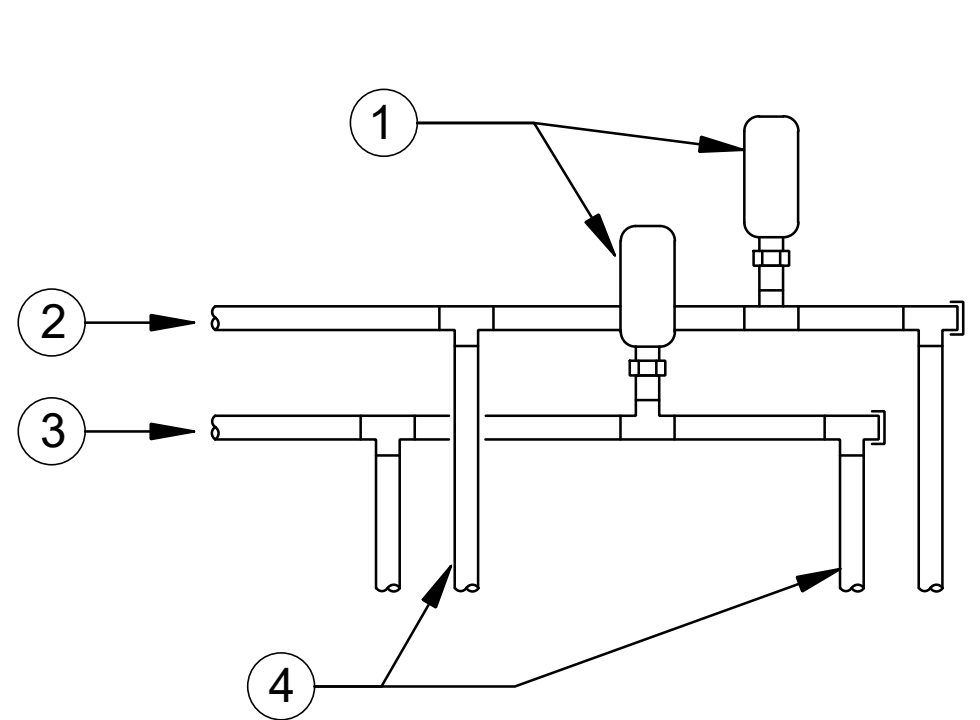
PERMIT / BID Project Number: 22-087 Approved By: XX Drawn By: No. Issue Date 05/11/2022 06/03/2022 95% REVIEW ISSUED FOR PERMIT & BID

SHEET TITLE & NUMBER

ELECTRICAL SPECIFICATIONS E4-01

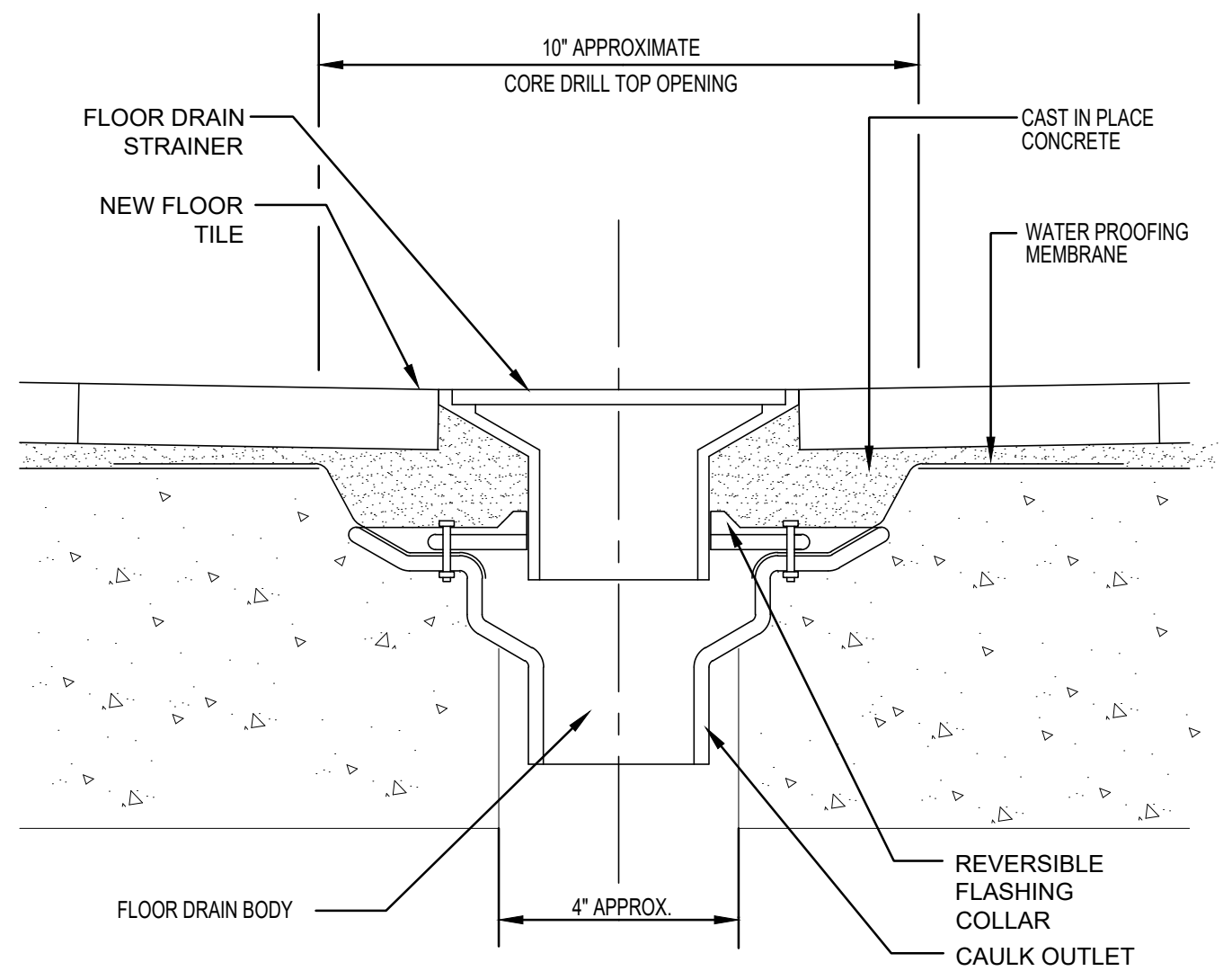
PLUMBING LEGEND

	BALANCING VALVE	AFF	ABOVE FINISHED FLOOR
	CAP	AD-1	AREA DRAIN - TYPE ONE
	CHECK VALVE	BFP	BACK FLOW PREVENTER
	FLOOR CLEAN OUT	BT-1	BATH TUB
	COLD WATER	CI	CAST IRON
	DRAIN LINE	CO	CLEAN OUT
	DRAIN VALVE	CS-1	CLINICAL SINK
	DROP DOWN	DCW	COLD WATER (DOMESTIC)
	FLOOR DRAIN	CU	COPPER
	FLOOR DRAIN WITH FUNNEL	D	DRAIN
	OPEN HUB DRAIN	DF-1	DRINKING FOUNTAIN
	GATE VALVE	DT	DRAIN TILE
	HOSE BIBB	DW-1	DISHWASHER
	HOT WATER CIRCULATION	EWC-1	ELECTRIC WATER COOLER
	HOT WATER	EX	EXISTING TO BE REMAIN
	PLUMBING DIAGRAM - NUMBER ONE	ETR	EXISTING TO BE RELOCATED
	POINT OF CONNECTION	ER	EXISTING TO BE REMOVED
	RISE UP	FD	FLOOR DRAIN
	SANITARY SEWER (ABOVE GROUND)	FCO	FLOOR CLEAN OUT
	STORM SEWER (ABOVE GROUND)	DWH	DOMESTIC WATER HEATER
	STRAINER	GT	GREASE TRAP
	THERMOMETER	HB	HOSE BIBB
	UNION	OHD	OPEN HUB DRAIN
	VENT	HWR	HOT WATER RETURN
	WATER DIAGRAM - NUMBER ONE	DHW	HOT WATER
	SOLENOID VALVE	KS	KITCHEN SINK
	BACK FLOW PREVENTOR	LAV	LAVATORY
		M	METER
		MB	MOP BASIN
		RPB	REDUCED PRESSURE BACK FLOW PREVENTER
		RC	ROOF CONDUCTOR
		SAN	SANITARY
		TYP	TYPICAL
		VTR	VENT THRU ROOF
		WHA	WATER HAMMER ARRESTOR

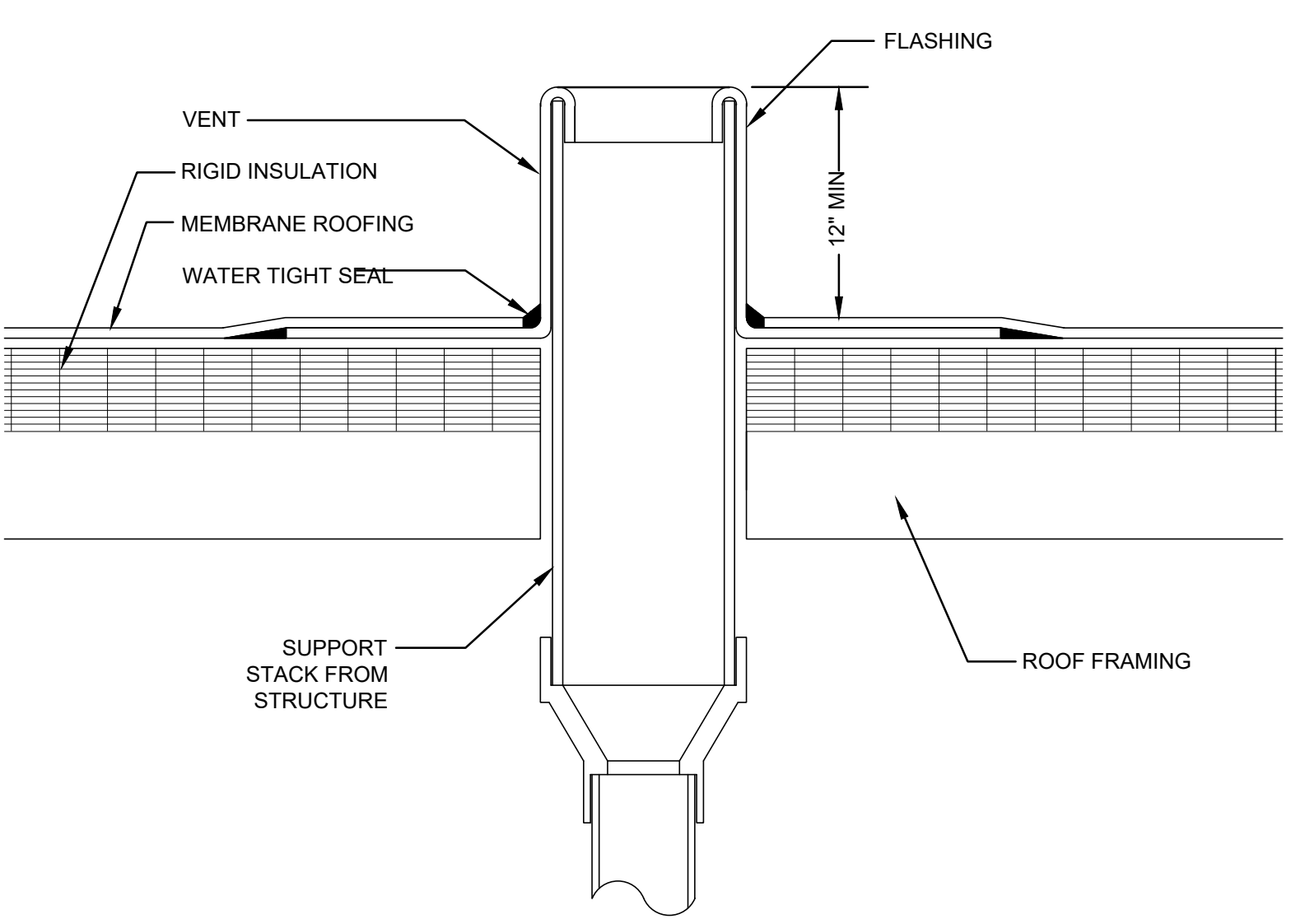


- KEY NOTES:**
1. WATER HAMMER ARRESTOR (WHA) INSTALL AHEAD OF LAST FIXTURE SERVED BY BRANCH. (TYP)
 2. CW PIPE
 3. HW PIPE
 4. CONNECT TO FIXTURE

WATER ARRESTOR SCHEDULE		
P.I.D. SYMBOL	FIXTURE UNIT RATING	SIZE (MM)
A	1-11	25
B	12-32	32
C	33-60	40
D	61-113	50

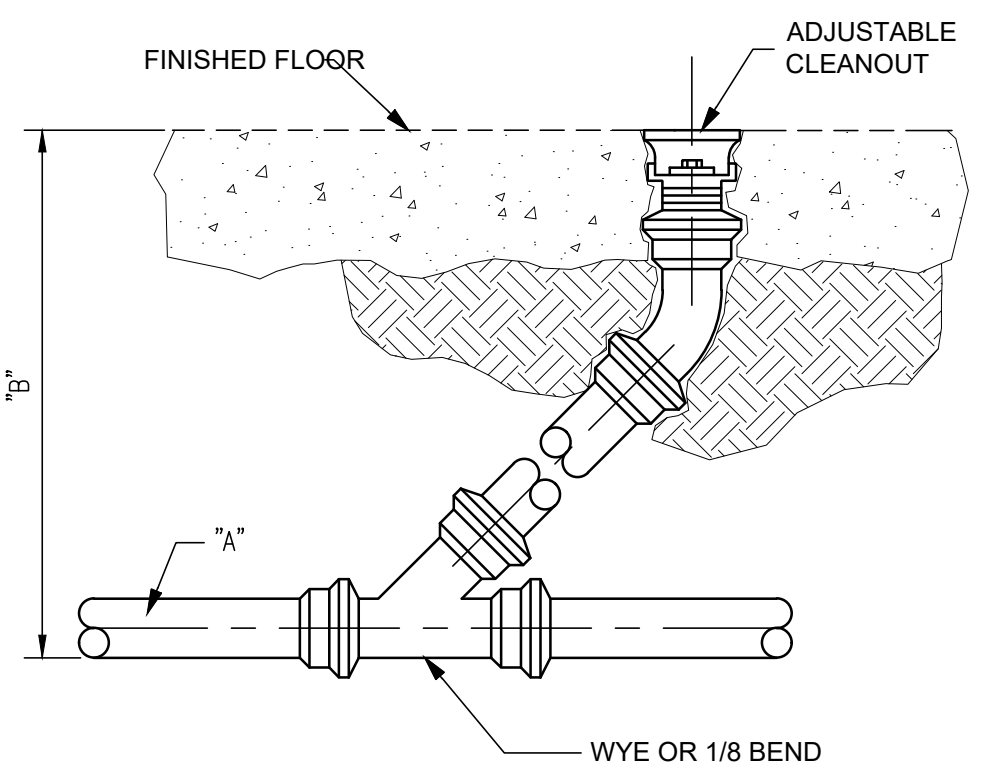


2 FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE

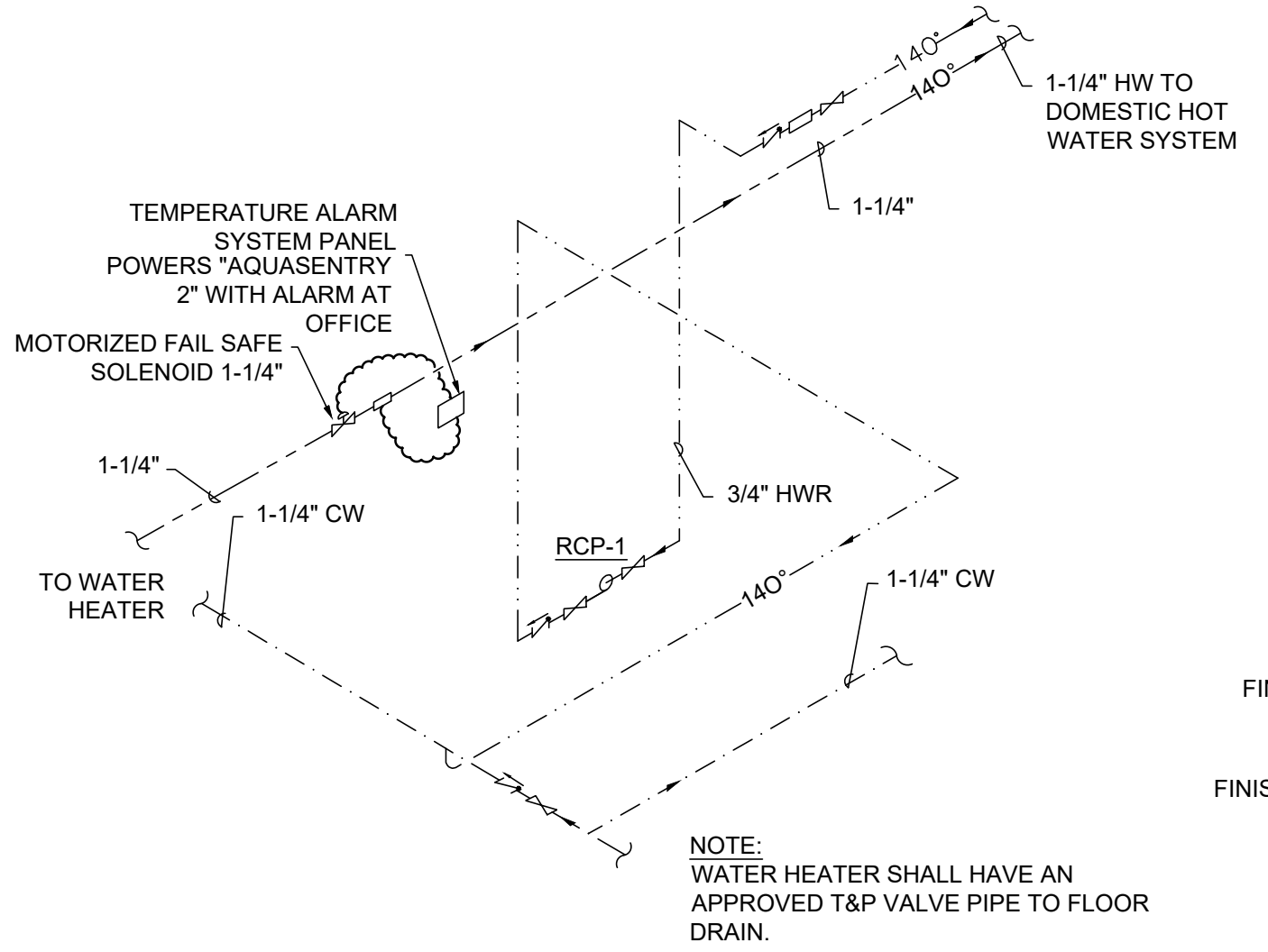


1 VENT THROUGH ROOF DETAIL
SCALE: NOT TO SCALE

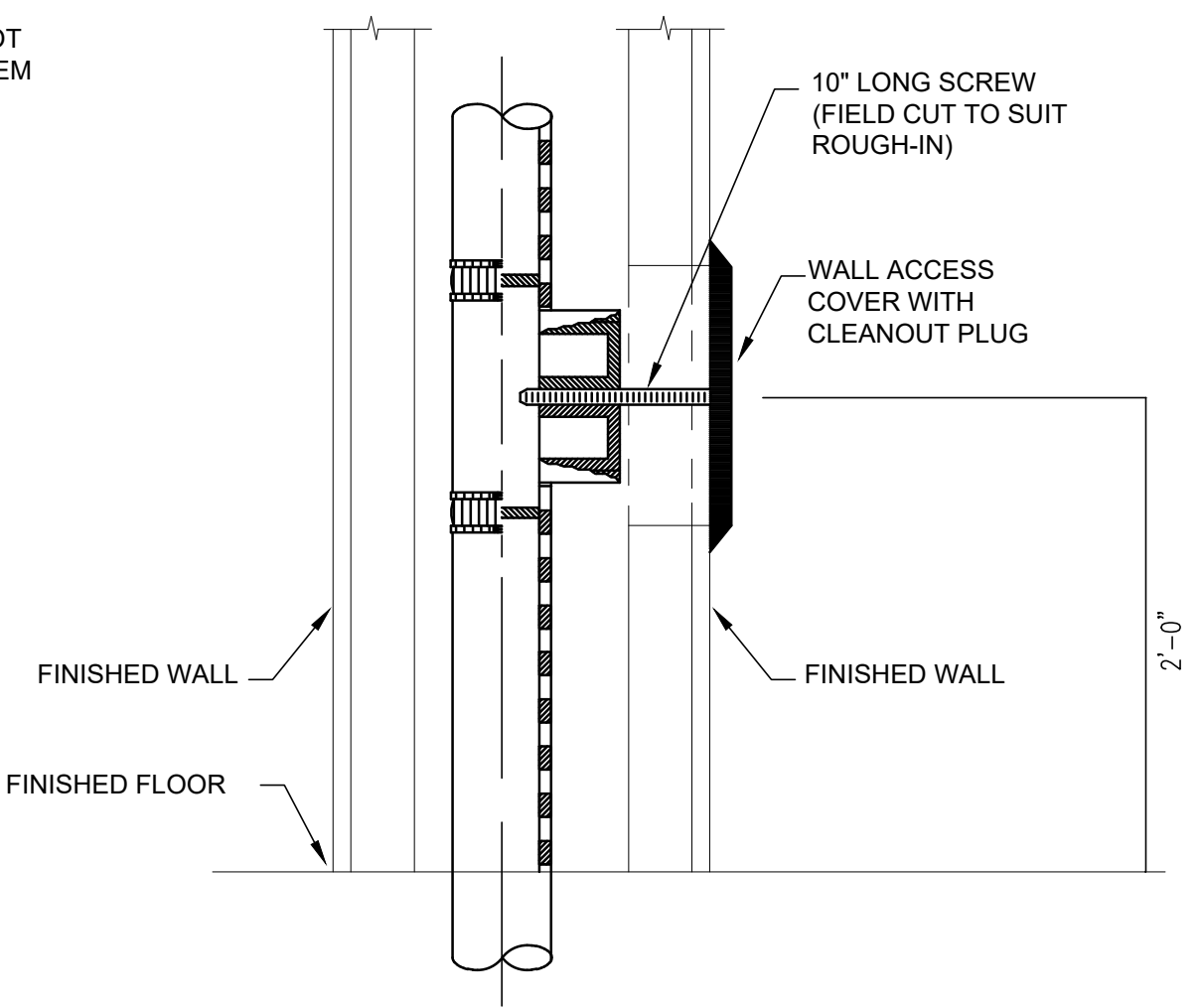
3 WATER HAMMER ARRESTOR DETAIL
SCALE: NOT TO SCALE



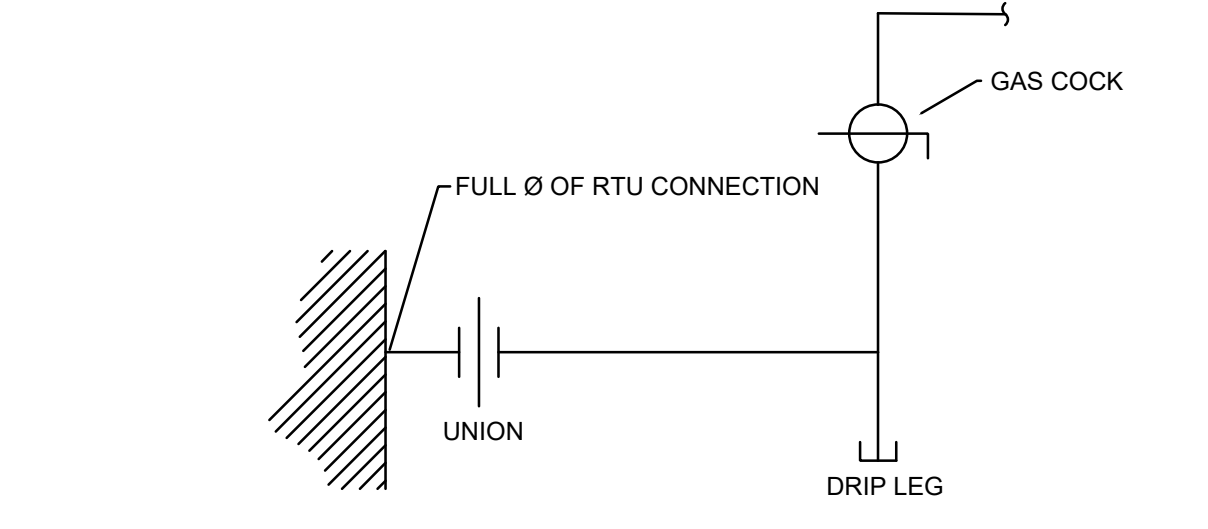
MIN. DIMENSIONS			
"A" = PIPE SIZE	4"	5"	6"
"B" = PIPE INVERT	1'-8 1/2"	1'-9 1/2"	1'-10 3/4"



5 TYPICAL WATER HEATER PIPING DETAIL
SCALE: NOT TO SCALE

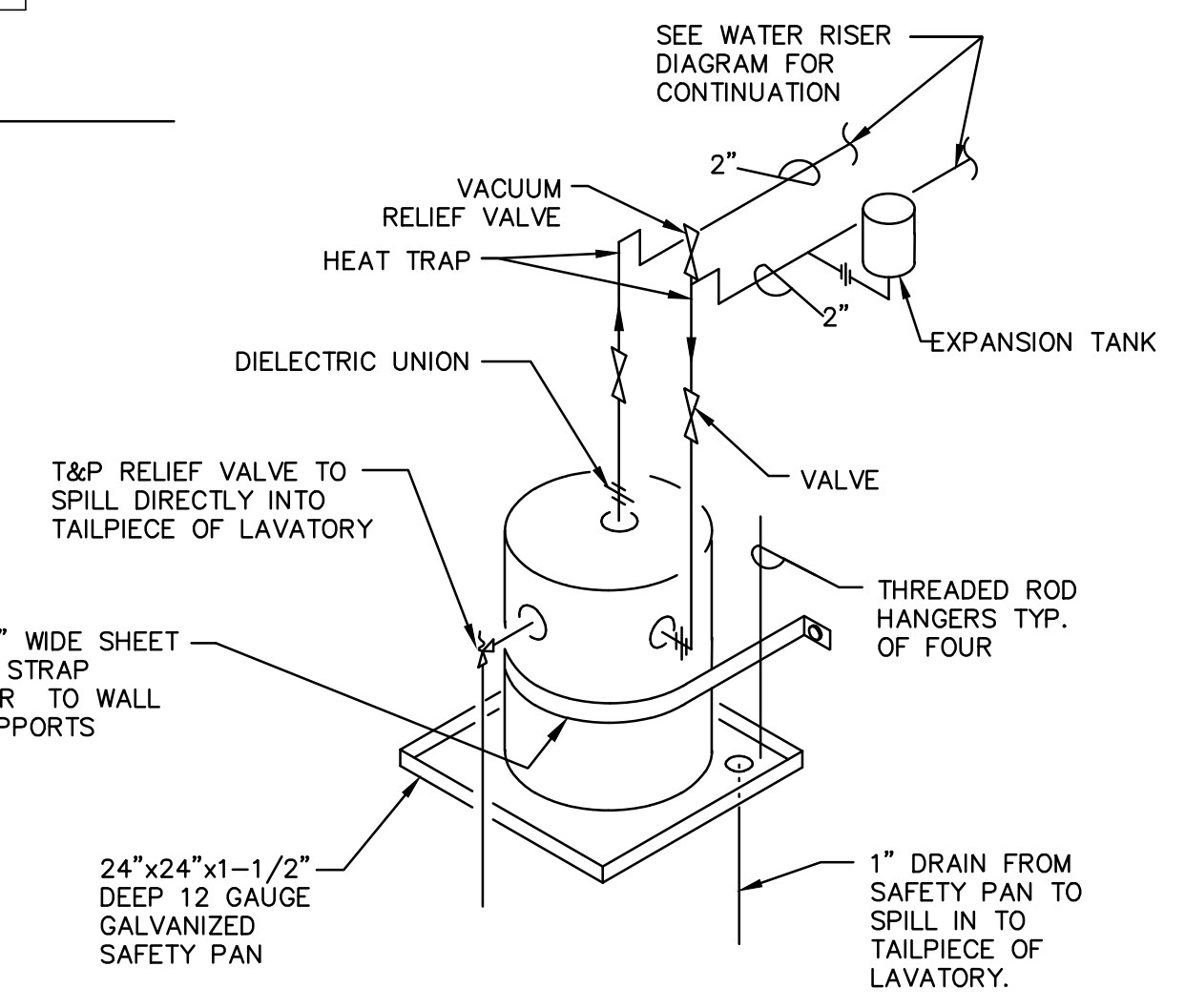


4 WALL CLEANOUT WITH ACCESS COVER DETAIL
SCALE: NOT TO SCALE

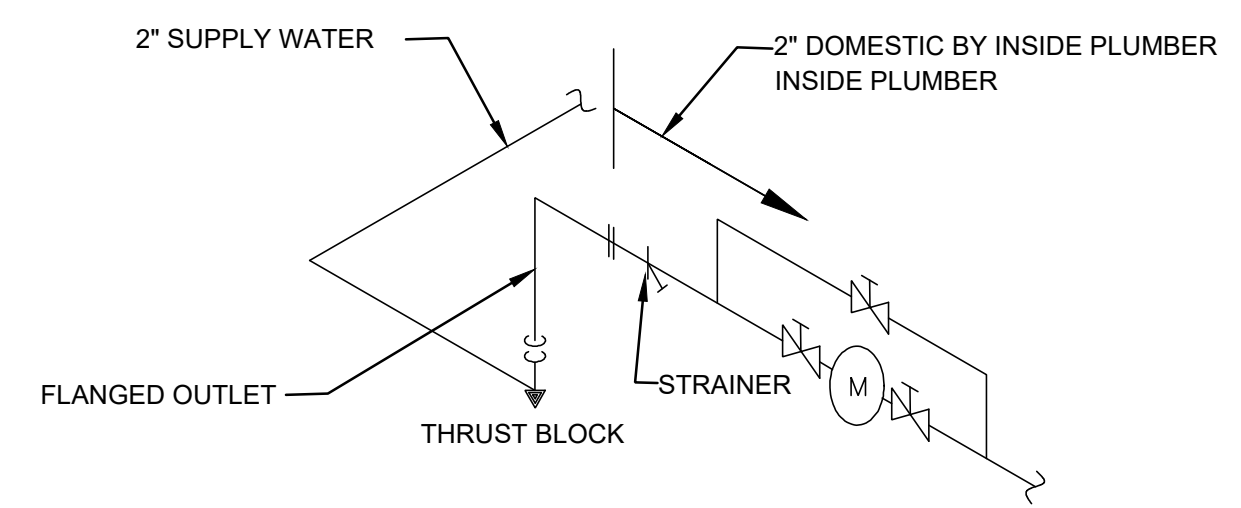


10 GAS EQUIPMENT CONNECTION DETAIL
SCALE: NOT TO SCALE

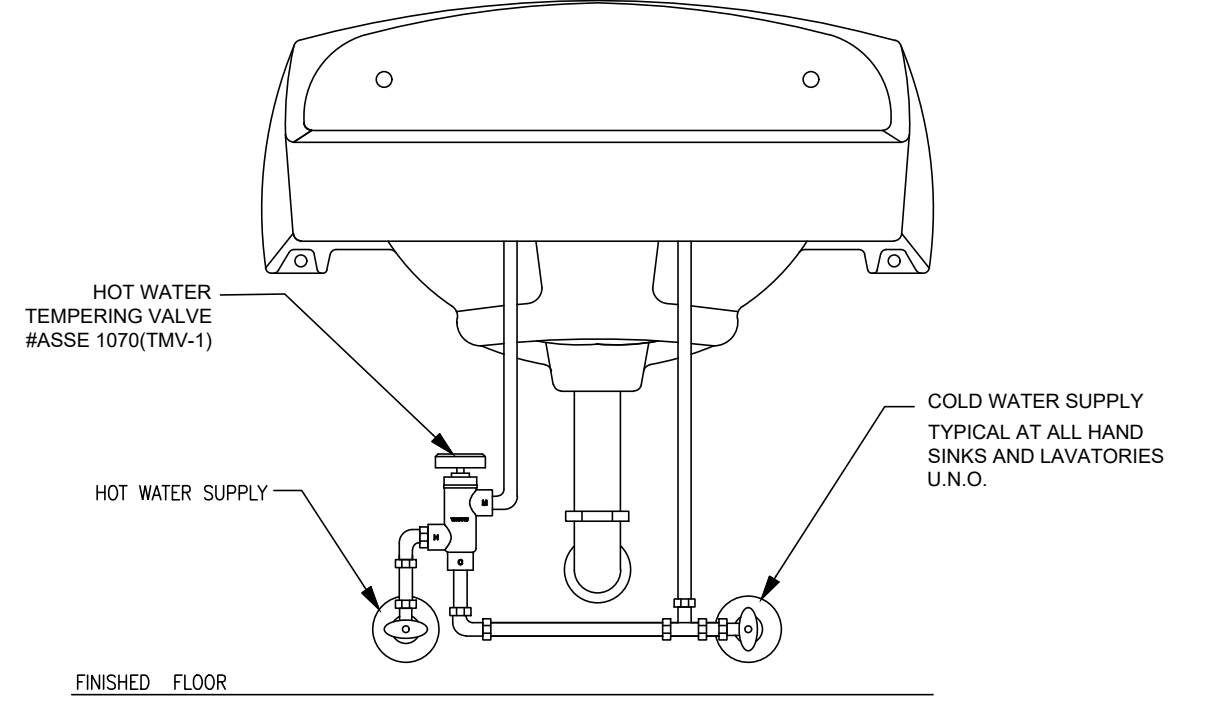
6 FLOOR CLEANOUT DETAIL
SCALE: NOT TO SCALE



9 SUSPENDED ELECTRIC WATER HEATER DETAIL
SCALE: NOT TO SCALE



8 DOMESTIC WATER METERING STATION DETAIL
SCALE: NOT TO SCALE



7 LOCAL MIXING VALVE DETAILS
SCALE: NOT TO SCALE

HEYDAY
PROJECT
HEYDAY - ANN ARBOR- CRANBROOK VILLAGE
890 W. EISENHOWER PKWY
ANN ARBOR, MI 48103



DXU ARCHITECTS
412 E. Washtenaw Street • Chicago • IL 60607
312.213.1313 • 0.20.11.C.T.C.P.H.
CASE Engineering Inc.
796 Motor Court
Ann Arbor, MI 48103
CERTIFICATE OF AUTHORITY AND REGISTRATION

Project Number: 22-087	Approved By: XX	Date: 05/11/2022
Drawn By:	Issue	06/03/2022
95% REVIEW		
ISSUED FOR PERMIT & BID		

PERMIT / BID
SHEET TITLE & NUMBER
PLUMBING DETAILS
P1.0

GENERAL

1. THE GENERAL REQUIREMENTS OF THE ARCHITECTURAL SPECIFICATIONS ARE PART OF THESE SPECIFICATIONS. WHERE AN INCONSISTENCY EXISTS BETWEEN THE WORDING OR INTENT, THIS SECTION SHALL TAKE PRECEDENCE. THE STANDARD FORM OF "GENERAL CONDITIONS" ISSUED BY THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201, LATEST EDITION, SHALL FORM PART OF THIS CONTRACT.

2. CONTRACT DOCUMENTS MAY INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION, AND CIVIL.

DEFINITIONS:

1. TERMINOLOGY: AS DEFINED IN MSS SP-90, "GUIDELINES ON TERMINOLOGY FOR PIPE HANGERS AND SUPPORTS."

2. WATER DISTRIBUTION PIPING: INTERIOR DOMESTIC WATER PIPING.

3. WATER SERVICE: EXTERIOR DOMESTIC WATER PIPING.

4. ACCESSIBLE FIXTURE: PLUMBING FIXTURE THAT CAN BE APPROACHED, ENTERED, AND USED BY PEOPLE WITH DISABILITIES.

PERFORMANCE REQUIREMENTS:

1. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND COMPONENTS.

2. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.

3. DESIGN SEISMIC-RESTRAINT (IF APPLICABLE) HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT, AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

4. COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING WORKING PRESSURE, UNLESS OTHERWISE INDICATED:

4.1. DOMESTIC WATER PIPING: 125 PSIG.
4.2. SANITARY DRAINAGE AND VENT PIPING: 10-FOOT HEAD OF WATER.
4.3. STORM DRAINAGE PIPING: 10-FOOT HEAD OF WATER.
4.4. FORCE-MAIN: 100 PSIG.

SUBMITTALS:

1. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ARCHITECT/ENGINEER A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT, INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:

1.1. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT.
1.2. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).
1.3. PRODUCT DATA.
1.4. FIELD-QUALITY CONTROL INSPECTION AND TEST REPORTS
1.5. FIELD TEST CERTIFICATES
1.6. OPERATION AND MAINTENANCE DATA.
1.7. EQUIPMENT MANUALS.
1.8. VALVE TAGS.
1.9. WELDING CERTIFICATES.

2. ANY DEFERRED CONTRACTOR SUBMITTALS OR CALCULATIONS REQUIRED BY THE LOCAL AHJ, IN ORDER TO OBTAIN OCCUPANCY SHALL BE PROVIDED THE PLUMBING CONTRACTOR. ALL SUBMITTALS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER, LICENSED IN THE PROJECT JURISDICTION, AS REQUIRED BY THE LOCAL AHJ. THE CONTRACTORS ENGINEER SHALL PREPARE PLANS, CUT SHEETS, CALCULATIONS, ETC. AS REQUIRED. ALL DEFERRED SUBMITTALS SHALL BE SIGNED AND STAMPED BY THE PREPARING ENGINEER. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ANY FEES REQUIRED FOR SUCH SUBMISSION IN HIS BID.

CODES AND STANDARDS:

1. APPLICABLE CODES:

1.1. LOCAL PLUMBING CODE.
1.2. LOCAL DEPARTMENT OF PUBLIC HEALTH.
1.3. LOCAL AMENDMENTS TO PLUMBING CODE.
1.4. LOCAL ORDINANCES.

2. SYSTEMS SHALL BE DESIGNED, MANUFACTURED, TESTED AND INSTALLED IN ACCORDANCE WITH FOLLOWING STANDARDS:

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE.
ARI AIR CONDITIONING AND REFRIGERATION INSTITUTE.
ASHRAE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS.
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
ASPE AMERICAN SOCIETY OF PLUMBING ENGINEERS.
ASSE AMERICAN SOCIETY OF SANITARY ENGINEERS.
ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS.
CISP CAST IRON SOIL AND PIPE INSTITUTE.
IAPMO INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS.
ICC INTERNATIONAL CODE COUNCIL.
FM FACTORY MUTUAL STANDARD.
NFPA NATIONAL FIRE PROTECTION ASSOCIATION.
OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
PDI PLUMBING AND DRAINAGE INSTITUTE.
UL UNDERWRITERS LABORATORIES.

QUALITY ASSURANCE:

1. WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

2. FIRE TEST RESPONSE CHARACTERISTICS: INSULATION AND RELATED MATERIALS SHALL HAVE FIRE TEST RESPONSE CHARACTERISTICS INDICATED, AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84, BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND ADHESIVE, MASTIC, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY.

2.1. INSULATION INSTALLED INDOORS: FLAME SPREAD INDEX OF 25 OR LESS, AND SMOKE DEVELOPED INDEX OF 50 OR LESS.
2.2. INSULATION INSTALLED OUTDOORS: FLAME SPREAD INDEX OF 75 OR LESS, AND SMOKE DEVELOPED INDEX OF 150 OR LESS.

3. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

4. ASME COMPLIANCE:

4.1. ASME B31.9 FOR BUILDING SERVICES PIPING VALVES.
4.2. ASME COMPLIANCE FOR FERROUS VALVES: ASME B16.10 AND ASME B16.34 FOR DIMENSION AND DESIGN CRITERIA.

5. NSF COMPLIANCE:

5.1. NSF 14, "PLASTIC PIPING SYSTEM COMPONENTS AND RELATED MATERIALS."
5.2. NSF 61, "DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS, SECTIONS 1 THROUGH 9."

6. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

7. REGULATORY REQUIREMENTS:

7.1. COMPLY WITH PUBLIC LAW 101-336, "AMERICAN WITH DISABILITIES ACT," AND "UNIFORM FEDERAL ACCESSIBILITY STANDARDS."
7.2. COMPLY WITH PUBLIC LAW 102-486, "ENERGY POLICY ACT."

CONTRACT DOCUMENTS:

1. CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND BECOME FAMILIAR WITH THE SITE AND LOCAL CONDITIONS RELATING TO WORK AS DESCRIBED HEREIN PRIOR TO SUBMITTING BID PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. IDENTIFY ALL DISCREPANCIES AND NOTIFY ARCHITECT/ENGINEER, IN WRITING.

2. THE DRAWINGS INDICATE THE GENERAL LAYOUT OF THE VARIOUS SYSTEMS AND EQUIPMENT. THE LAYOUT OF THE SYSTEMS EQUIPMENT, ACCESSORIES AND OTHER COMPONENTS ARE DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN OR DIMENSIONED.

3. CONTRACTOR SHALL BID ALL WORK AS SHOWN, AND MATERIAL AND EQUIPMENT SPECIFIED HEREIN. ANY SUBSTITUTION (NOT APPROVED) DURING THE BIDDING PROCESS TO SECURE AWARD OF THE CONTRACT WILL NOT BE ACKNOWLEDGED.

4. CONTRACTOR SHALL BE FINANCIALLY LIABLE FOR ANY REQUIRED REVISION, WITH FACTORY APPLIED PRODUCT CHANGE AND/OR VOLUNTARY "VALUE ENGINEERING" DURING THE BIDDING PROCEDURE AND THE SUBMITTAL PROCESS.

5. ANY CONFLICTING INFORMATION DEPICTED OR IMPLIED ON THE DRAWINGS IDENTIFIED DURING THE BIDDING PROCESS SHALL BE SUBMITTED FOR CLARIFICATION OF INTENT. FAILURE TO CLARIFY THE ARCHITECT/ENGINEER'S INTENT, MAY MAKE THE CONTRACTOR LIABLE FOR ANY ASSOCIATED COSTS RELATIVE TO CHANGES DURING THE CONSTRUCTION PROCESS.

SPECIFICATIONS AND DRAWINGS:

SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COOPERATIVE. WHAT IS CALLED FOR BY EITHER SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. ANY WORK OR MATERIALS NOT SPECIFICALLY MENTIONED THOUGH REQUIRED TO MAKE THE JOB COMPLETE, SHALL BE FURNISHED AT THE CONTRACTOR'S EXPENSE.

VISITING THE SITE:

PRIOR TO SUBMITTING BID PROPOSAL, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND EXISTING CONDITIONS FOR DOING WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. FAILURE TO COMPLY SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. CONTRACTOR SHALL IDENTIFY ALL DISCREPANCIES AND NOTIFY ARCHITECT/ENGINEER, IN WRITING.

PERMITS, FEES & INSPECTIONS:

1. CONTRACTOR SHALL PREPARE AND SUBMIT ALL DATA, DRAWINGS AND DETAILS REQUIRED, SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES, INSPECTIONS AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

2. CONTRACTOR SHALL PAY FOR ALL APPLICABLE FEES FOR TEST AND INSPECTIONS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.

3. WHERE REGULATIONS OF UTILITY COMPANIES APPLY, CONFORMANCE WITH THEIR REGULATIONS IS MANDATORY AND ANY COSTS INVOLVED SHALL BE INCLUDED IN THE CONTRACT.

LAWS AND ORDINANCES:

CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. IF CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING WHEN SUBMITTING BID AND ANY NECESSARY CHANGES SHALL BE ADJUSTED AS PROVIDED IN THE CONTRACT FOR SUCH CHANGES IN WORK. IF CONTRACTOR PERFORMS ANY WORK, CONTRARY TO SUCH LAWS, ORDINANCES, RULES AND REGULATIONS, CONTRACTOR SHALL BEAR ALL COSTS FOR CORRECTING THE WORK.

TRADE JURISDICTION:

WHEN IT BECOMES NECESSARY FOR THE COMPLETE FULFILLMENT OF THIS WORK FOR THIS CONTRACTOR TO FURNISH LABOR OR MATERIALS OTHER THAN THAT WHICH IS GENERALLY ACCEPTED BY THIS TRADE OR BRANCH OF WORK, THE CONTRACTOR SHALL SUBLET SAME TO A CONTRACTOR ENGAGED IN THE TRADE OR BRANCH OF WORK INVOLVED. THERE SHALL BE NO DELAY TO OR STOPPAGE OF WORK DUE TO THE INFRINGEMENT OR ALLEGED INFRINGEMENT TO TRADE AGREEMENTS AS TO THE JURISDICTION. REQUESTS FOR INFORMATION (RFIS):

1. ALL REQUESTS FOR INFORMATION (RFIS) SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.

2. IF THERE IS NO CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, SUBMIT RFIS TO THE ARCHITECT/ENGINEER.

3. THERE WILL BE NO RESPONSE TO RFIS THAT ARE NOT SUBMITTED IN WRITTEN FORM.

4. ANY FORMAL OR INFORMAL, OR PHONE CONVERSATION DOES NOT CONSTITUTE THE AUTHORIZATION TO PROCEED.

WORKMANSHIP:

ALL LABOR SHALL BE EXECUTED IN A NEAT, WORKMANLIKE MANNER AND SHALL BE PERFORMED BY PERSONS SKILLED IN THEIR RESPECTIVE THE ARCHITECT/ENGINEER SHALL DECIDE ALL MATTERS PERTAINING TO THE QUALITY OF WORKMANSHIP AND MATERIALS.

COORDINATION OF WORK:

CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TO AVOID INTERFERENCE BEFORE STARTING ANY INSTALLATION. ANY NEGLIGENCE BY THE CONTRACTOR TO COORDINATE WITH OTHER CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

CUTTING AND PATCHING:

CONTRACTOR SHALL INCLUDE ALL CUTTING AND PATCHING, AS REQUIRED. ALL CORES THROUGH SLABS AND FOUNDATION WALLS SHALL BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL ASSUME ALL LIABILITIES FOR CORES WHICH HAVE NOT BEEN APPROVED. PATCH ALL DISTURBED WALL, FLOORS, PARTITIONS, CEILINGS, ETC., RESTORE TO ORIGINAL CONDITION.

OPERATING INSTRUCTIONS:

CONTRACTOR SHALL PREPARE A TYPEWRITTEN LIST IN DUPLICATE, OF INSTRUCTIONS OF THE OPERATION OF ALL EQUIPMENT AND SHALL INSTRUCT IN ITS OPERATION. ALL VALVES AND EQUIPMENT SHALL BE MARKED WITH A METAL TAG AND A TYPEWRITTEN SCHEDULE SHALL BE GIVEN TO THE OWNER.

GUARANTEE:

CONTRACTOR SHALL GUARANTEE WORK TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION. ANY REPAIR TO OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO THE OWNER, UPON OWNER'S REQUEST.

P R O D U C T S

MATERIALS:

1. ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS PRODUCTS OF MANUFACTURERS SPECIFIED HEREIN AND OR AS APPROVED BY THE ARCHITECT/ENGINEER OF RECORD.

2. THE DESIGN INTENT, SPACE REQUIREMENTS, PERFORMANCE, ETC., ARE BASED ON PRODUCTS OF THE MANUFACTURER(S) INDICATED IN THESE SPECIFICATIONS, UNLESS NOTED OTHERWISE COMPARABLE PRODUCTS OF OTHER MANUFACTURER(S) MAY BE SUBSTITUTED FOR REVIEW TO THE ARCHITECT/ENGINEER OF RECORD. PRODUCTS INSTALLED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

3. MANUFACTURER(S) IDENTIFICATION OF MATERIAL: EACH LENGTH OF PIPE, PIPE FITTING, EQUIPMENT, DEVICE AND APPURTENANCE IN THE FIRE PROTECTION SYSTEM SHALL HAVE CAST, STAMPED OR INDELIBLY MARKED ON IT THE MARKER'S MARK OR NAME, WEIGHT, CLASS OF PRODUCT AND STANDARD THAT APPLIES.

PLUMBING FIXTURES:

1. PLUMBING FIXTURES AND TRIMMINGS HAVE BEEN SELECTED AS A BASE FOR THIS INSTALLATION, EXCEPT WHERE OTHERWISE SPECIFIED, BUT OTHER MAKES WHICH ARE EQUAL AND APPROVED MAY BE USED. CONTRACTOR SHALL SUBMIT FOR ARCHITECT/ENGINEER'S APPROVAL PORTFOLIO ILLUSTRATING AND DESCRIBING IN DETAIL THE FIXTURES, TRIMMINGS AND VALVES CONTRACTOR CONTEMPLATES USING, GIVING NAMES AND CATALOG NUMBERS OR IDENTIFYING DESCRIPTION.

1.1. PLUMBING FIXTURES SHALL BE OF THE BEST QUALITY, GRADE "A", AND SHALL HAVE MANUFACTURER'S GUARANTEE LABEL OR TRADEMARK INDICATING FIRST QUALITY.

2. INSTALL/PROVIDE FLUSH VALVES AND/OR FLUSH TANKS WITH HANDLE ON OPEN SIDE OF FIXTURE.

3. SET ALL FLOOR FIXTURES ON A WHITE TILE SETTERS GROUT TO FORM A SOLID WATER TIGHT BASE.

4. CAULK ALL FIXTURES WATER TIGHT TO WALL AND FLOOR USING CLEAR SILICONE CAULK NEAT AND SMOOTHLY SET IN PLACE AND EXCESS CLEANED FROM WALL OR FIXTURE.

5. ALL FIXTURES SHALL BE WATERSENSE LABELED.

6. THERMOSTATIC MIXING VALVES, SHALL BE INSTALLED ON ALL SINKS AND LAVATORIES WITHOUT EXCEPTION.

HANGERS AND SUPPORTS:

1. STEEL PIPE HANGERS AND SUPPORTS: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS. REFER TO EXECUTION SECTION "HANGER AND SUPPORT APPLICATIONS."

1.1. GALVANIZED, METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED.
1.2. NON-METALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
1.3. PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION FOR SUPPORT OF BEARING SURFACE OF PIPING.

2. TRAPEZED PIPE HANGERS: MSS SP-69, TYPE 69, SHOP OR FIELD FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL STEEL SHAPES WITH MSS-SP-58 HANGER RODS, NUTS, SADDLES, AND U-BOLTS.

3. METAL FRAMING SYSTEMS: MFMA-3, SHOP OR FIELD FABRICATED PIPE SUPPORT ASSEMBLY MADE OF STEEL CHANNELS AND

OTHER COMPONENTS.

4. THERMAL HANGER SHIELD INSERTS: 100-PSIG MINIMUM, COMPRESSIVE STRENGTH INSULATION INSERT ENCASED IN SHEET METAL SHIELD.

5. FASTENER SYSTEMS:

5.1. POWDER ACTUATED FASTENERS: THREADED STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
5.2. MECHANICAL EXPANSION ANCHORS: INSERT WEDGE TYPE, ZINC COATED OR STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.

6. EQUIPMENT SUPPORTS: WELDED, SHOP OR FIELD FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL STEEL SHAPES.

7. MISCELLANEOUS MATERIALS:

7.1. STRUCTURAL STEEL: ASTM A 46/A 36M, STEEL PLATES, AND BARS, BLACK AND GALVANIZED.
7.2. GROUT: ASTM C 1107, FACTORY-MIXED AND PACKAGED, DRY, HYDRAULIC-CEMENT, NON-SHRINK AND NON-METALLIC GROUT, SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
7.3. PROPERTIES: NON-STAINING, NON-CORROSIVE, AND NON-GASEOUS.
7.4. DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH.

8. PROVIDE SEISMIC BRACING OF PIPING BASED ON SEISMIC CATEGORY OF ZONE PROJECT IS BEING CONSTRUCTED.

INSULATION:

1. THERMAL INSULATION MATERIALS SHALL MEET THE PROPERTY REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS AS APPLICABLE TO THE SPECIFIC PRODUCT OR END USE:

1.1. ASTM C547, ASTM C585, AND ASTM C1136.
2. INSULATION MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF ASHRAE 90.1 (LATEST EDITION).
3. INSULATION MATERIALS SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH THE FOLLOWING TESTING STANDARDS:

3.1. ASTM E84, UL 723 AND NFPA 255.
4. INSULATION SHALL BE FIBERGLASS PIPE INSULATION, ONE-PIECE, HINGED SECTION, WITH FACTORY APPLIED WHITE POLYMER FACING, TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, AND MATCHING PRESSURE SENSITIVE TAPE. MANUFACTURER'S DATA REGARDING THICKNESS CONSTRAINTS IN RELATION TO OPERATING TEMPERATURE SHALL BE FOLLOWED. STAPLING IS NOT ALLOWED TO COMPLETE THE CLOSURE.

5. MOLDED CLOSED CELL POLYETHYLENE FOAM INSULATION IN NOT ALLOWED OR APPROVED.

6. COVER ALL OF THE FOLLOWING PIPE TYPES LISTED WITH PREMOLDED PIPE INSULATION OF THICKNESS INDICATED, 4 LB. DENSITY AND ASJ JACKET.

PIPE TYPE INSULATION THICKNESS (INCHES)

PIPE TYPE	INSULATION THICKNESS (INCHES)
DOMESTIC COLD WATER PIPE 1 INCH AND SMALLER	1/2
PIPE 1-1/4 INCH TO 2 INCH	3/4
PIPE 2-1/2 INCH AND LARGER	1
DOMESTIC HOT WATER PIPE 2 INCH AND SMALLER	1
PIPE 2-1/2 INCH LARGER	1-1/2
DOMESTIC HOT WATER (CIRCULATING) PIPE 2 INCH AND SMALLER	1
PIPE 2-1/2 INCH AND LARGER	1-1/2

FIRESTOPPING:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING, FIRE CAULKING AND INSTALLING ALL SYSTEMS WHERE PLUMBING PIPING AND EQUIPMENT PENETRATE FIRE RATED SYSTEMS. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, FLOORS AND STRUCTURES. MATERIAL SHALL STOP AND PREVENT FIRE AND SMOKE FROM PASSING/PENETRATING FIRE BARRIER.

EXECUTION

SCOPE OF WORK:

1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FACILITIES, TRANSPORTATION, FEES AND SERVICES NECESSARY FOR A COMPLETE PLUMBING SYSTEM(S) AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. WORKMANSHIP SHALL BE COMPLETE IN EVERY ASPECT, TESTED, APPROVED AND SATISFACTORY TO THE ARCHITECT/ENGINEER AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS HAVING JURISDICTION.

2. IT IS THE DECLARED AND ACKNOWLEDGED INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING SYSTEM(S), INCLUSIVE OF ALL REQUIRED PARTS AND ACCESSORIES COMPLETE AND READY FOR USE AS DESCRIBED, BUT NOT LIMITED TO THE FOLLOWING:

2.1. DOMESTIC WATER SERVICE AND DISTRIBUTION.
2.2. DOMESTIC HOT WATER.
2.3. SANITARY DRAINAGE SYSTEM.
2.4. PLUMBING FIXTURES.
2.5. PLUMBING EQUIPMENT.
2.6. PLUMBING SPECIALTIES.

3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK INCLUDED, WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED, INCLUDING THESE DETAILS, WITHOUT EXTRA COST TO THE OWNER.

SUBMITTALS AND SHOP DRAWINGS:

1. SHOP DRAWING LAYOUT SUBMITTAL(S) SHALL BE A MINIMUM OF 1/8 INCH PER FOOT SCALE, SHOWING ALL PIPING TO BE INSTALLED. DETAILED LAYOUT(S) OF TOILETS, KITCHENS AND EQUIPMENT ROOMS SHALL BE NOT LESS THAN 1/4 INCH PER FOOT SCALE. THE DRAWING SHALL ALSO SHOW THE WORK COORDINATING WITH OTHER TRADES. ALL DRAWINGS SHALL BE SUBMITTED PRIOR TO STARTING ANY WORK, AND IN ACCORDANCE WITH AN APPROVED SCHEDULE, PROVIDED BY THE GENERAL CONTRACTOR, TO AVOID ANY DELAY ON THE PROJECT.

2. EQUIPMENT, FIXTURES AND OTHER RELATED APPURTENANCES SHALL BE SUBMITTED IN BOUNDED BOOKLETS, ALL DATA MUST BE CLEARLY LEGIBLE. SUBMIT 50 (50) COPIES MINIMUM OF EACH.

3. CONTRACTOR SHALL SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES, SHOP DRAWINGS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.

4. CONTRACTOR SHALL PREPARE AND FURNISH TO THE OWNER, AN ELECTRONIC SUBMITTAL CONTAINING A COMPLETE LIST OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. EACH PIECE OF EQUIPMENT LISTED SHALL ALSO BE DESCRIBED BY MANUFACTURER(S) MODEL NUMBER, FIGURE NUMBER AND THE COMPONENTS THEREIN WHICH MAKE UP THE PART(S) LIST. ELECTRONIC VERSION OF SHOP DRAWINGS MAY ALSO BE SUBMITTED TO THE ARCHITECT IN PDF FORM VIA EMAIL.

5. SHOP DRAWINGS SHALL INCLUDE CONTRACTOR'S NAME, JOB ADDRESS, MANUFACTURER'S NAME, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT.

6. SUBMITTAL REVIEWS ARE A COURTESY REVIEW FOR GENERAL CONFORMANCE AND DO NOT IMPLY A GUARANTEE OF EXISTING CONDITIONS OR BUILDING MEASUREMENTS. A SUBMITTAL REVIEW IN NO WAY ALLEVIATES THE CONTRACTOR OF ENSURING COMPATIBILITY AND FUNCTIONALITY SYSTEMS, COMPONENTS, OR OTHER RESPONSIBILITIES UNDER THE CONTRACT.

7. SHOP DRAWINGS WILL REQUIRE A MINIMUM OF (5) BUSINESS DAYS FOR REVIEW. THE CONTRACTOR SHALL INCLUDE THE REQUIRED REVIEW TIME IN ALL PROJECT AND CONSTRUCTION SCHEDULES. THERE SHALL BE NO ADDITIONAL COMPENSATION OR CONSIDERATION FOR FAILURE TO INCLUDE THE PROPER REVIEW TIME.

8. NO EQUIPMENT SHALL BE PURCHASED OR INSTALLED WITHOUT AN APPROVED SHOP DRAWING SUBMITTED. FAILURE TO COMPLY WITH THIS PROVISION, THE CONTRACTOR DOES AT HIS OWN RISK.

9. ONE (1) COPY PRIOR TO FINAL INSPECTION, DELIVER TO THE ARCHITECT/ENGINEER TYPEWRITTEN COPIES OF EACH OF THE FOLLOWING:

9.1. CERTIFICATION FROM CONTRACTOR THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.
9.2. CERTIFICATION FROM RESPECTIVE MANUFACTURER(S) AUTHORIZED REPRESENTATIVE THAT EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.
9.3. CERTIFICATION FROM AUTHORITY HAVING JURISDICTION THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED, TESTED AND ACCEPTED FROM THE AUTHORITY HAVING JURISDICTION.

INSPECTIONS AND TESTS:

1. TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY AND OWNER'S REPRESENTATIVE. PROVIDE FIVE (5) DAYS NOTICE TO THE OWNER, ARCHITECT OF RECORD AND GOVERNING AUTHORITY. PROVIDE ALL NECESSARY EQUIPMENT, MATERIAL AND LABOR TO PERFORM TESTS.

2. ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION, BY USING WATER OR AIR TO PROVE WATERTIGHT.

3. WATER TEST: WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS AFTER PIPING HAS BEEN ROUGHED-IN. DRAINAGE SYSTEM SHALL NOT BE TESTED WITH LESS THAN TEN (10) FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM OR SECTION BEING TESTED FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. TESTING OF THE SYSTEM SHALL CONFIRM THAT THE SYSTEM IS TIGHT AT ALL POINTS.

4. AIR TEST: AIR TEST SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO A SUITABLE OPENING AFTER CLOSING ALL OTHER INLETS AND OUTLETS TO THE SYSTEM. FORCE AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF FIVE (5) PSI OR SUFFICIENT TO BALANCE A COLUMN OF MERCURY TEN (10) INCHES IN HEIGHT. PRESSURE SHALL BE HELD WITHOUT INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST FIFTEEN (15) MINUTES.

5. WATER SUPPLY SYSTEM: WATER SUPPLY SYSTEM SHALL BE TESTED AND PROVED WATERTIGHT UPON COMPLETION OF A SECTION OR THE ENTIRE SYSTEM. SYSTEM SHALL BE TESTED UNDER A WATER PRESSURE OF AT LEAST 1.5 TIMES THE SYSTEM PRESSURE, BUT AT LEAST 100 PSI AT A MINIMUM BY AIR OR WATER. TESTING PRESSURE SHALL BE MAINTAINED FOR A LEAST FIFTEEN (15) MINUTES AND WATER USED FOR TEST SHALL BE FROM POTABLE WATER.

DISINFECTATION OF POTABLE WATER SYSTEM:

1. DISINFECT AND FLUSH POTABLE WATER SYSTEM PER LOCAL PLUMBING, BUILDING, AND HEALTH DEPARTMENT REQUIREMENTS.

FLUSHING:

1. CHLORINATED WATER SUPPLY: IF WATER SUPPLY SERVING SYSTEM IS CHLORINATED FROM COMMUNITY WATER SYSTEM, SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.

2. NON-CHLORINATED WATER SUPPLY: WATER SUPPLY SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.

LABEL AND IDENTIFICATION:

1. IDENTIFICATION FOR ALL PIPING SYSTEM(S) SHALL COMPLY WITH ANSI A13.1 FOR SIZE OF LETTERING AND BACKGROUND COLOR FIELD.

2. PIPING SYSTEM(S): IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE PIPING SYSTEM(S) AND AN ARROW INDICATING THE DIRECTION OF FLOW. HAZARDOUS PIPING SYSTEM(S) SHALL ALSO CONTAIN INFORMATION ADDRESSING THE NATURE OF THE HAZARD. IDENTIFICATION SHALL BE REPEATED AT MAXIMUM INTERVALS OF TWENTY-FIVE (25) FEET AND AT EACH POINT WHERE PIPING PASSES THROUGH A WALL, COVER AND PLUG TOP ASSEMBLY. IDENTIFICATION SHALL BE DISCERNIBLE AND CONSISTENT THROUGHOUT THE BUILDING.

3. EQUIPMENT: IDENTIFICATION SHALL INCLUDE SYSTEM NUMBER, CAPACITY, FLOW RATE, STATIC PRESSURE, PUMP HEAD, HORSEPOWER, VOLTAGE, ETC.

4. VALVE TAGS: PROVIDE BRASS VALVE TAGS AND BRASS "S" HOOK FASTENERS WITH VALVE NUMBER AND TYPE OF SERVICE NOTED ON TAG. PROVIDE DUPLICATE CHARTS, THE CHART SHALL BE FOR ALL VALVES AND SHALL INDICATE VALVE IDENTIFICATION NUMBER, LOCATION AND PURPOSE.

RECORD DRAWING SUBMITTALS:

1. AT PROJECT CLOSE-OUT, CONTRACTOR SHALL SUBMIT RECORD DRAWINGS (CERTIFIED OR APPROVED) ALSO KNOWN AS "AS-BUILT" DRAWINGS. LAYOUT SUBMITTALS SHALL BE SUBMITTED FOR RECORDS PRIOR TO FINAL ACCEPTANCE IN ELECTRONIC FORM ON COMPACT DISC(S), USING AUTOCAD VERSION 2010 "DWG" FORMAT OR ADOBE ACROBAT "PDF" FORMAT VIEWABLE FROM ADOBE RECORD DATA EQUIPMENT, FIXTURE AND RELATED APPURTENANCES MAY BE SUBMITTED AS BOUND HARDCOPY OR ELECTRONIC ADOBE ACROBAT "PDF" FORMAT.

2. PROVIDE RECORD SUBMITTALS AS FOLLOWS:

2.1. OWNER: 1 COPY.
2.2. ARCHITECT OF RECORD: 1 COPY.
2.3. ENGINEER OF RECORD: 1 COPY.

3. CONTRACTOR IS NOT ALLOWED TO USE THE CONTRACT DOCUMENTS FOR "AS-BUILT" DRAWINGS. BACKGROUNDS SHALL BE IN THE LATEST RELEASE OF AUTOCAD.

PIPING MATERIALS:

DOMESTIC WATER DISTRIBUTION

1. DOMESTIC WATER DISTRIBUTION (3 INCH AND SMALLER): HARD COPPER TUBE, ASTM B88, TYPE L, WATER TUBE, DRAWN TEMPER.

1.1. PRESSURE FITTINGS: ASME B16.16 OR B16.22.
1.2. BRONZE FLANGES: ASME B16.24, CLASS 150.
1.3. UNIONS: MSS SP-123.
1.4. GROOVED-END FITTINGS: ASTM B75 COPPER TUBE OR ASTM B584 BRONZE CASTINGS.

SOIL, WASTE AND VENT PIPING

1. ABOVEGROUND PIPE, WASTE AND VENT PIPING: NO HUB AND HEAVY DUTY COUPLINGS WITH LEAD AND OAKUM JOINTS, PIPE AND FITTINGS.
2. ABOVEGROUND SOIL, WASTE AND VENT PIPING: CAST IRON PIPE AND FITTINGS.
2.1. SCHEDULE 40, LEAD AND OAKUM JOINTS

PLUMBING GENERAL NOTES

1. PLUMBING GENERAL NOTES ON THESE DRAWINGS ARE A PART OF THE PLUMBING SPECIFICATIONS TO THE SAME EXTENT AS IF WRITTEN HEREIN FULL.

2. ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AND STATE GOVERNING CODES, ORDINANCES AND HEALTH DEPARTMENT REGULATIONS.

3. THE INTENT OF THESE DRAWINGS IS TO FURNISH THE OWNER WITH A PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT.

4. FURNISH AND INSTALL A COMPLETE AND OPERABLE SOIL, WASTE AND VENT SYSTEM WITH FINAL CONNECTIONS TO ALL FIXTURES, APPLIANCES, DRAINS, EQUIPMENT, STRUCTURES, ETC., REQUIRING DRAINAGE, CONNECTIONS THERETO TO CONVEYANCE TO THE PUBLIC SEWER SYSTEM.

4.1. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED AT UNIFORM SLOPES NOT LESS THAN THE FOLLOWING:

4.1.1. PIPING LESS THAN FOUR (4) INCHES: 1/4 INCH PER LINEAL FOOT.
4.1.2. PIPING FOUR (4) INCHES AND LARGER: 1/8 INCH PER LINEAL FOOT.
4.1.3. UNLESS OTHERWISE INDICATED ON DRAWINGS, UNDERGROUND DRAINAGE
4.1.4. PIPING SHALL BE A MINIMUM OF FOUR (4) INCHES.
4.1.5. VENT PIPING SHALL BE MINIMALLY SLOPED BACK TO DRAINAGE PIPING.

5. FURNISH AND INSTALL A COMPLETE AND OPERABLE DOMESTIC WATER DISTRIBUTION SYSTEM WITH FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, APPLIANCES, EQUIPMENT, WALL HYDRANTS, ETC., REQUIRING DOMESTIC WATER CONNECTIONS THERETO FROM THE DOMESTIC WATER SERVICE.

8. FURNISH AND INSTALL ALL PLUMBING FIXTURES, EQUIPMENT, APPLIANCES, COMPLETE WITH ALL NECESSARY AND REQUIRED TRIMMINGS, ACCESSORIES, COMPONENTS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO P-TRAPS, BACKFLOW DEVICES, AIR CHAMBERS, STOPS AND SUPPLIES, HANGERS, SUPPORTS, ANCHORS, CARRIERS, TAILPIPPES, TEMPERING VALVES, ETC.

9. ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS OF THE BUILDING, OR AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. PLACE ALL HANGERS ON EIGHT (8) FOOT CENTERS.

9.1. PIPES ONE (1) INCH IN DIAMETER OR LESS: SOLID OR SPLIT RING TYPE
9.2. PIPES LARGER THAN ONE (1) INCH: STANDARD WEIGHT CLEVIS HANGERS
9.3. INSULATED PIPING: SEMI-CIRCULAR SHIELD.

10. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO ACCESS ANY VALVES OR ANY PLUMBING ITEMS REQUIRING ACCESS FOR

MAINTENANCE. CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL LOCATION AND SIZES OF ACCESS PANELS FOR APPROVAL BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION.

PLUMBING PRODUCTS AND MATERIALS

CLEANOUTS:

1. FCO (FINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY BRASS CLOSURE PLUG, STAINLESS STEEL COMBINED ROUND (SQUARE IN TILED AREAS) COVER AND PLUG TOP ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.

1.1. MANUFACTURER: MIFAB SERIES C1220-3-6-34B
1.2. MANUFACTURER: MIFAB SERIES C1220-S-6-34B (TILED AREAS).

2. FCO (UNFINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY BRASS CLOSURE PLUG, SCORIATED COMBINED DUCTILE IRON ROUND COVER AND PLUG TOP ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.

2.1. MANUFACTURER: MIFAB SERIES C1220-4-6-34B.

3. WCO (FINISHED AREAS): LACQUERED CAST IRON CLEANOUT WITH LARGE ACCESS AREA AND THREADED PLUG, STAINLESS STEEL 6 INCH ROUND (SQUARE IN TILED AREAS) COVER AND FRAME ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.

3.1. MANUFACTURER: MIFAB SERIES C1460-R6-3-6.
3.2. MANUFACTURER: MIFAB SERIES C1460-S7-3-6 (TILED AREAS).

VALVES:

1. BALL VALVE (1/2 INCH TO 2-1/2 INCH) FULL PORT OPENING, 2 PIECE BRASS BODY, BLOW OUT PROOF STEM, TFE SEATS, TFE WITH ADJUSTABLE STEM PACKING GLAND, FREE-FLOATING CHROME PLATED BRASS BALL, 100 PERCENT FACTORY TESTED.

1.1. MANUFACTURER: HAMMOND VALVE SERVICE 8300.

2. BALANCING VALVE: DEZINCIFICATION RESISTANT BRASS BODY, BONNET AND TRIM, NON-RISING STEM, SCREWED BONNET, PARABOLIC REGULATING DISK, DOUBLE REGULATING (MEMORY STOP) DEVICE, FLOW MEASUREMENT ACCURACY, SUPPLIED FITTED WITH TWO DUSEAL TEST POINTS, END CONNECTIONS THREADED TO ANSI B1.20 AND SOLDER END TO ANSI B16.18, DRAIN PLUG, PRE-FORMED INSULATION.

WATER PRESSURE

1. THE CONTRACTOR SHALL PROVIDE A FLOW TEST ON THE INCOMING WATER SERVICE PRIOR TO START OF CONSTRUCTION AND REPORT THE FINDINGS TO THE ENGINEER AND ARCHITECT OF RECORD PRIOR TO THE ORDERING OR RELEASING OF ANY EQUIPMENT OR THE INSTALLATION OR ORDERING OF ANY PLUMBING MATERIALS. THE NEED TO MODIFY ANY EXISTING INSTALLATIONS, OR RE-ORDER/RETURN OF ANY EQUIPMENT DUE TO THE FAILURE TO PERFORM THE REQUIRED PRESSURE TEST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE PRESSURE REDUCING VALVE IF PRESSURE EXCEEDS 80 PSI, PROVIDE ALTERNATE BID FOR BOOSTER PUMP IF PRESSURE IS LESS THAN 65 PSI.

MUNICIPAL APPROVAL STAMP

CLIENT

PROJECT

9890 W. EISENHOWER PKWY
ANN ARBOR, MI 48103

HEYDAY - ANN ARBOR- CRANBROOK VILLAGE

HEYDAY

6/3/22

ARCHITECT

DESIGN

SEAL

PERMIT / BID

Project Number: 22-087
Approved By: XX
Date: 05/11/2022
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95% REVIEW
ISSUED FOR PERMIT & BID

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DARRRELL R. CARRELL
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CERTIFICATE OF AUTHORITY NO. 000000109

SHEET TITLE & NUMBER

PLUMBING SPECIFICATIONS

P2.0

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PLUMBING FIXTURE SCHEDULE (FINAL FIXTURE SELECTION SHALL BE BY ARCHITECT)										
TAG NO.	QTY.	DESCRIPTION	CONNECTION				ACCESSORIES	MANUFACTURER & MODEL NO.	COMMENTS	
			WASTE	VENT	COLD	HOT				
										4"
WC-1	2	WATER CLOSET, ADA, ELONGATED FRONT, FLUSH TANK TYPE, (1.28 GPF)	4"	2"	1 1/2"	-	FIXTURE	REFER TO ARCHITECTURAL FIXTURE SCHEDULE, SHEET	FLOOR MOUNTED	
							VALVE	REFER TO ARCHITECTURAL FIXTURE SCHEDULE, SHEET	ECOPOWER SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON	
							SEAT	REFER TO ARCHITECTURAL FIXTURE SCHEDULE, SHEET	ANITMICROBIALY TREATED, OPEN FRONT, LESS COVER	
L-1	2	LAVATORY, ADA (0.5GPM)	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	DURAVIT SINK # D04546000271	WALL MOUNTED	
							FAUCET	MAC FAUCET #FA444-22		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	CAST GRID DRAIN WITH OFF SET P TRAP	
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER	
							STRAINER	CAST GRID DRAIN		
MB-1	1	MOP SINK	3"	2"	3/4"	3/4"	FIXTURE	FAIT # MSB2424		
							FAUCET TRIM	FAIT # 830-AA FAUCET, CHROME, 832-AA HOSE & BRACKET	WITH VACUUM BREAKER	
							ACCESSORY	FAIT # 889-CC MOP BRACKET		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
EWC-1	1	ELECTRIC WATERS COOLER (ADA)	2"	2"	1/2"	-	FIXTURE	ELKAY LZSTL8	6 FLA, 120V, 8 GPH	
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	WITH VACUUM BREAKER	
							TRAP	PROFLO 1 1/4" SS P-TRAP		
ST-1	2	SINK	2"	1 1/2"	1/2"	1/2"	FIXTURE	KOHLER # K-5798-1		
							FAUCET	MAC FAUCET #FA444-22		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
							CARRIER	JAY R. SMITH		
							STRAINER	CAST GRID DRAIN		
SK-1	1	COUNTER MOUNTED HAND SINK	2"	1 1/2"	1/2"	1/2"	FIXTURE	KOHLER # K-2822		
							FAUCET	MAC FAUCET #FA444-22		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL		
							CARRIER	JAY R. SMITH		
							STRAINER	CAST GRID DRAIN		

RECIRCULATING PUMP SCHEDULE														
MARK	DESCRIPTION	LOCATION	QTY.	FLOW (GPM)	HEAD (FEET)	FLANGE SIZE NPT(IN)	ELECTRICAL				WEIGHT (LBS)	MODEL	MANUFACTURER	
							HP	VOLTAGE	PHASE	RPM				
RCP-1	RECIRCULATING PUMP	UTILITY/STORAGE ROOM	1	2	8	3/4	1/12	120	1	1725	1.75	21	ALPHA 15-5	GRUNDFOS

REMARKS:

NOTE:
ALL PIPING SIZED IN ACCORDANCE WITH THE 2006 UNIFORM STATEWIDE BUILDING CODE AND THE 2006 INTERNATIONAL BUILDING CODE.

PLUMBING SPECIALTIES SCHEDULE										
TAG NO.	DESCRIPTION	CONNECTION *				ACCESSORIES	MANUFACTURER & MODEL NO.	COMMENTS		
		WASTE	VENT	COLD	HOT					
WHA-1	WATER HAMMER ARRESTOR						SILOUX CHIER #850 SERIES HY DRAARRESTOR	MEETS ASSE# 101 SIZE BASED ON EQUIPMENT SERVED. PROVIDE FOR ALL EQUIPMENT AND DEVICES WITH QUICK ACTION CLOSING MECHANISM.		
RPZ-1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER			1 1/2"			ZURN WILKINS #375XL UP TO 2M	ASSE #1013, UP TO 10"		
TMV-1	THERMOSTATIC MIXING VALVE (LOCAL)			3/8"	3/8"		WATTS #LFUSG-B	ASSE #1070		

* CONNECTION SHALL BE AS NOTED BELOW, OR AS SIZED ON THE DRAWINGS

REMARKS:
RPZ ONLY REQUIRED WHEN NOTED ON THE PLANS AS NEW.

ELECTRIC WATER HEATER SCHEDULE										
MARK	MFR	MODEL	STORAGE	RECOVERY	°F. RISE	ELECTRICAL DATA			UNIT LOCATION	REMARKS
						VOLTAGE	PHASE	KW		
EWH-1	AO SMITH	DEL-40	40	54 GPH	90	480	3	6	ABOVE MOP SERVICE BASIN	1,2,3

REMARKS:
1. SET OUTLET TEMPERATURE TO 120°F. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND GUIDELINES.
2. CONSULT MANUFACTURER PRIOR TO PURCHASE FOR EXACT MODEL AND ALL ACCESSORIES FOR A COMPLETE SYSTEM.
3. DUAL ELEMENTS, SIMULTANEOUS OPERATION

DOMESTIC EXPANSION TANK SCHEDULE										
MARK	TANK DIMENSIONS		TANK CAPACITY (GALLONS)	SYSTEM CONNECTION SIZE (INCHES)	CHARGING VALVE	EMPTY WEIGHT (LBS)	VESSEL CERT.	UNIT SERVES	REMARKS	
	DIAMETER (INCHES)	LENGTH (INCHES)								
T-1	8"	13"	2	3/4"		5	X	GW-1	THERM-X-TROL MODEL #ST-5	

REMARKS:
1. INSTALL PER MANUFACTURER INSTRUCTIONS.
2. PROVIDE WITH STANDARD SCHRADER TIRE VALVE CONNECTION.
3. ADJUST CHARGE PRESSURE IN FIELD.

DRAIN AND CLEAN OUT SCHEDULE										
TAG	FINISH		PRIMARY STRAINER		TYPE OF SECONDARY STRAINER	TYPE OF BACKWATER VALVE	LOCATION	MANUFACTURER AND MODEL	REMARKS	
	BODY	TOP	SIZE	TYPE						
FD-1	CAST IRON	NICKLE BRONZE	6"	ADJUSTABLE			TOILET ROOMS	JAY R. SMITH #2010-A JOSAM SERIES #30000-6A ZURN #415-6B	PROVIDE WITH FLASHING CLAMP & SURE SEALTRAP SEAL	
FD-2	CAST IRON	NICKLE BRONZE	6"	ADJUSTABLE	HUB EXTENSION		UTILITY/STORAGE ROOM	JAY R. SMITH # JOSAM SERIES #30000-2W ZURN #415	PROVIDE WITH FLASHING CLAMP & SURE SEALTRAP SEAL	
CO	CAST IRON	NICKLE BRONZE	4"	SCORAIATED			AS SHOWN ON DRAWING	JAY R. SMITH #4020 JOSAM SERIES #55000-1 ZURN #ZV-1400		

REMARKS:
1. 4" IN GENERAL, OR AS SHOWN ON THE DRAWINGS.

PLUMBING MATERIALS SCHEDULE										
PLUMBING SYSTEM	COPPER / COPPER ALLOY TUBING AND FITTINGS TYPE "L"		CAST (DUCTILE) IRON WATER PIPE AND FITTINGS	CAST IRON SOIL PIPE AND FITTINGS	POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS	REMARKS				
	(ASTM B 88)	(ASTM A 377)	(ASTM A 74) (CISPI 301)	(ASTM D 2665)						
WATER SUPPLY SYSTEM										
BUILDING DISTRIBUTION WATER SUPPLY		X				FOR UNDER GROUND PIPING PROVIDE TYPE K PIPING				
PLUMBING DRAINAGE SYSTEMS										
BUILDING SANITARY WASTE SEWER				X	X	CAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTING				
PLUMBING VENT SYSTEMS										
BUILDING SANITARY WASTE VENT				X	X	COPPER TYPE L WITH DRAINAGE FITTING ORCAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTING				

NOTES:
1. THE LISTED MATERIALS ABOVE ARE ACCEPTABLE MATERIALS FOR THIS INSTALLATION PROVIDED THE FOLLOWING: ALL MATERIALS SHALL CONFORM TO STANDARD LISTINGS AS DICTATED BY LOCAL CODES, MATERIALS LISTED ABOVE ARE ACCEPTABLE FOR THEIR INTENDNED USE BY ALL LOCAL CODES, THE CONTRACTOR HAS VERIFIED THEIR USE WITH THE LOCAL AUTHORITY.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL MATERIAL IN ACCORDANCE WITH THE LOCAL CODE REQUIREMENTS

MUNICIPAL APPROVAL STAMP

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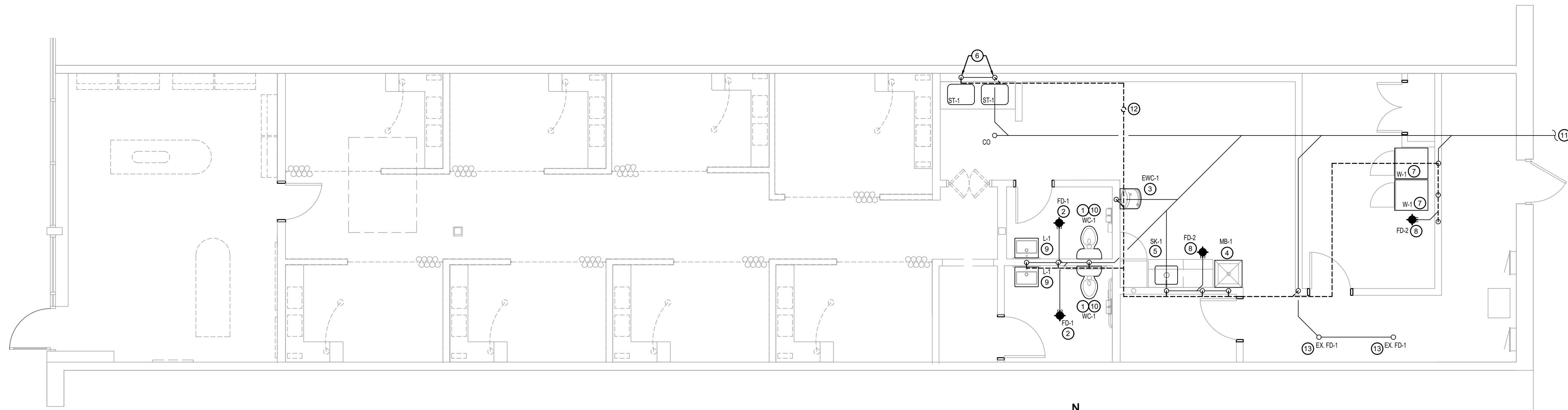
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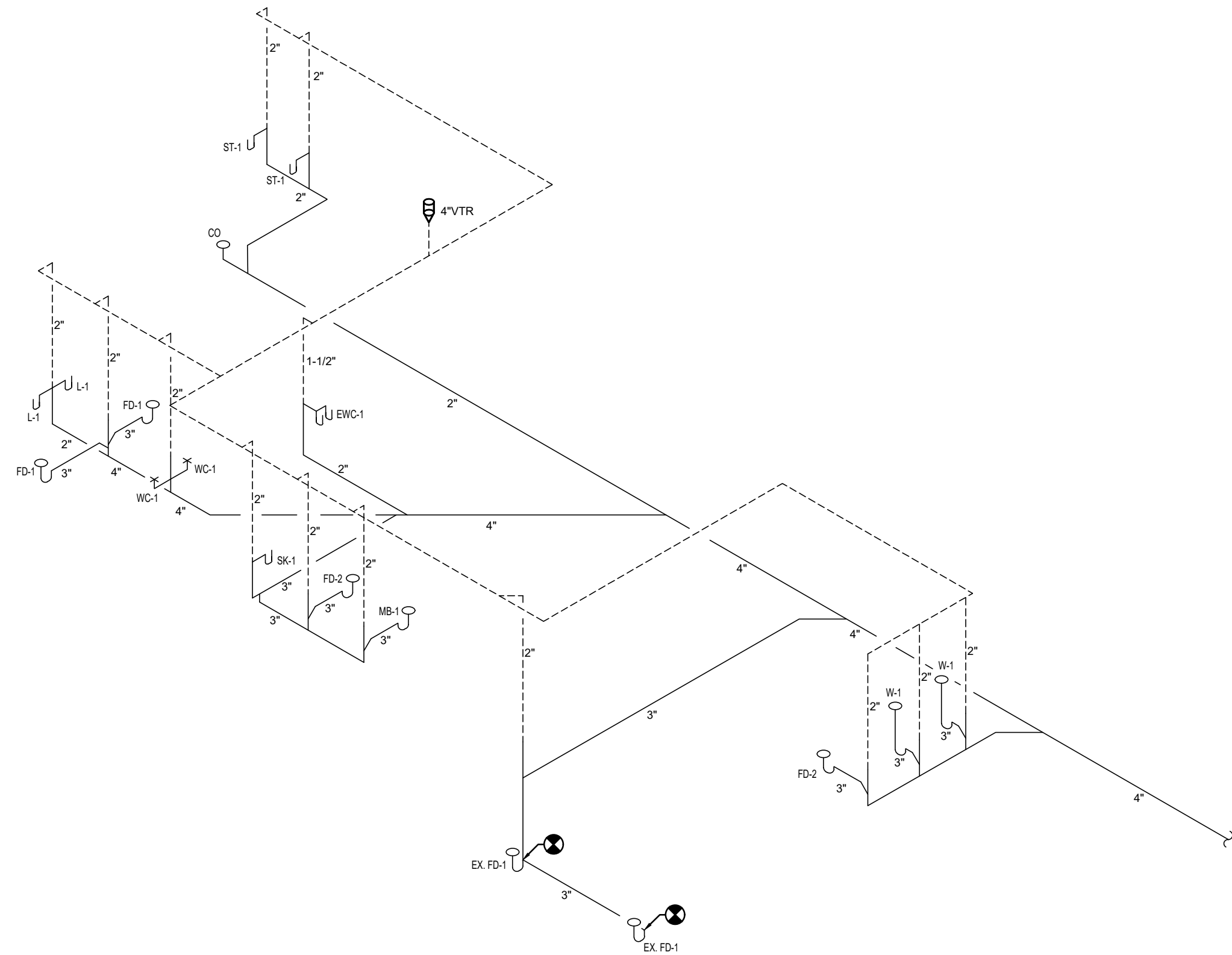
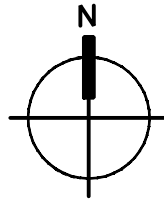
PLUMBING SCHEDULES

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1 PLUMBING FLOOR PLAN - SANITARY
 SCALE: 1/4" = 1'-0"



2 RISER DIAGRAM- WASTE AND VENT
 SCALE: NTS

- KEYED PLUMBING NOTES
- 1 4" SW UP TO WATER CLOSET.
 - 2 3" SW UP TO FLOOR DRAIN.
 - 3 2" SW AND 2" VENT UP IN WALL TO SERVE EWC.
 - 4 3" SW AND 2" V UP TO MOP BASIN.
 - 5 2" SW AND 2" V UP TO SINK.
 - 6 2" SW AND 2" V UP TO ST SINK (ST-1).
 - 7 2" SW WALL UP TO SERVE 2 WASHER BOX.
 - 8 2" V UP TO SERVE FLOOR DRAIN.
 - 9 2" SAN AND 2" UP TO LAV.
 - 10 2" V UP TO SERVE WATER CLOSET.
 - 11 EXTEND NEW PIPING AND CONNECT TO EXISTING SANITARY PIPING. FIELD VERIFY LOCATION.
 - 12 NEW 4" VTR.
 - 13 3" EXISTING SW UP TO FLOOR DRAIN.

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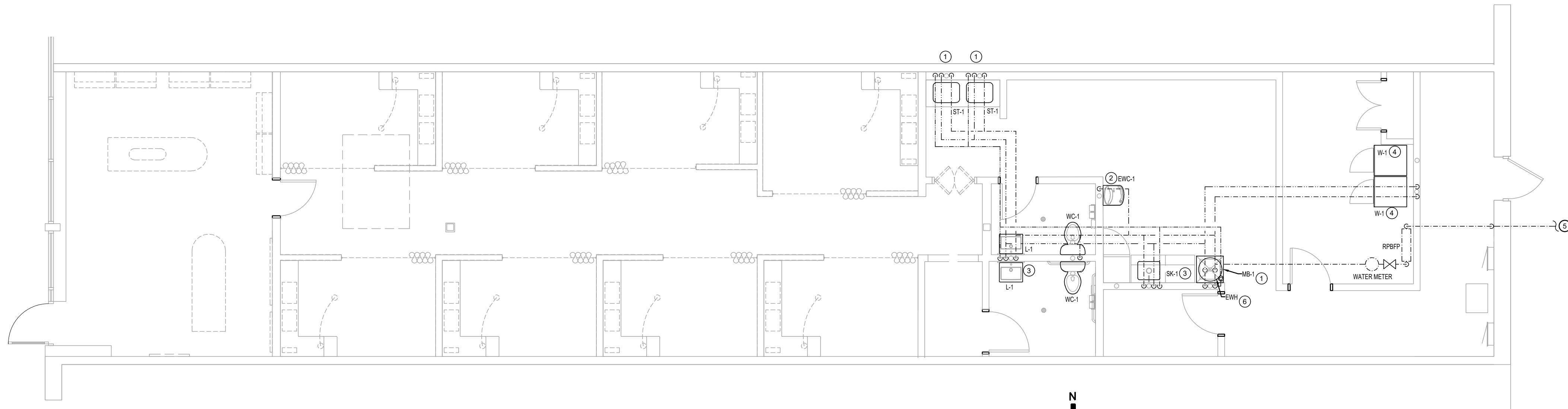
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PLUMBING SANITARY FLOOR PLAN AND RISERS

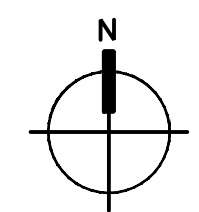
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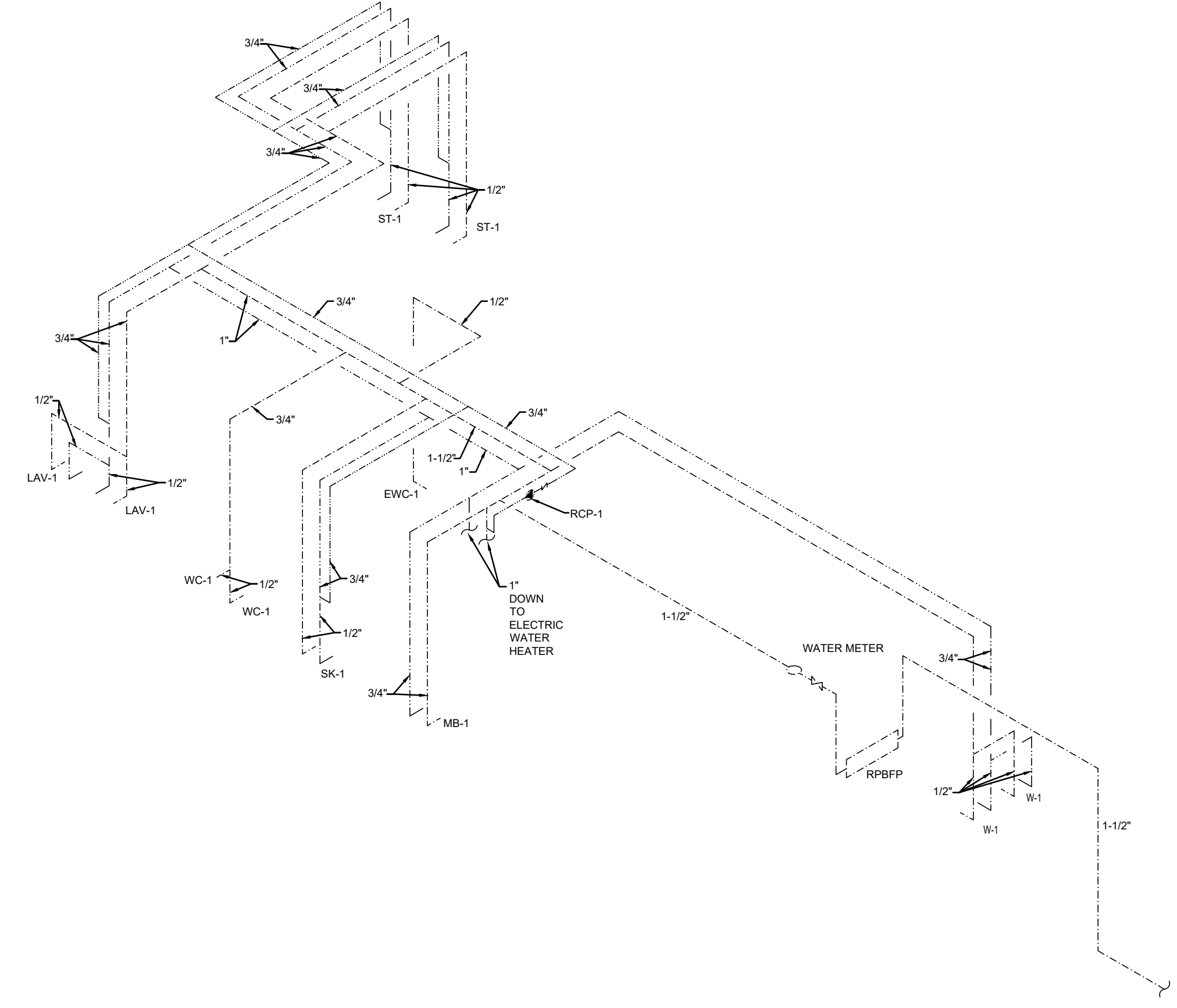
- KEYED PLUMBING NOTES**
- 1 3/4" CW, 3/4" HW - DN.
 - 2 1/2" CW - DN
 - 3 1/2" CW & 1/2" HW - DN
 - 4 1/2" CW & 1/2" HW - CONTRACTOR SUPPLIED WASHER BOX WITH HAMMER ARRESTORS
 - 5 1-1/2" LANDLORD PROVIDE WATER CONNECTION ROUTE WITH WATER METER AND BACKFLOW ASSEMBLY.
 - 6 SEE WATER HEATER DETAIL P-1.

1 PLUMBING FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"



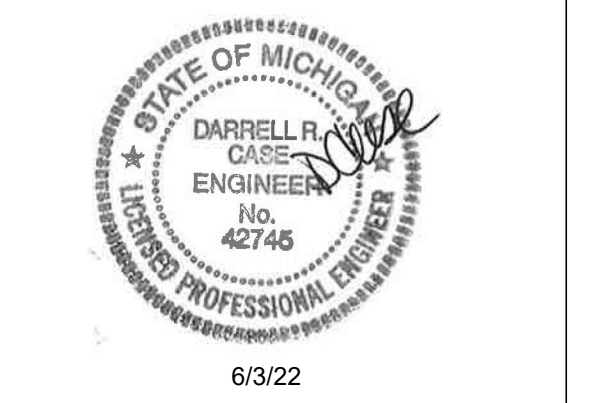
FIXTURE UNIT CALCULATIONS										
FIXTURE TYPE	QTY	CWSFU	HWSFU	TOTAL CWSFU	TOTAL HWSFU	COMBINED WSFU	TOTAL WSFU	DFU	TOTAL DFU	REMARKS
WATER CLOSET (FT)	2	5	0	10	0		10	4	8	
LAV	2	1.5	1.5	3	3	2	4	1	2	
ST. SINK	2	1.5	1.5	3	3	2	4	2	4	
SINK	1	1	1	1	1	1.4	1.4	2	2	
ELECTRIC WATER COOL	1	0.25		0.25		0.25	0.25	0.5	0.5	
MOP BASIN	1	2.25	2.25	2.25	2.25	3	3	2	2	
FLOOR DRAIN	3	0	0	0	0	0	0	2	6	
WASHING MACHINE	2	2.25	2.25	4.5	4.5	3	6	1	2	
TOTAL GPM		24		13.75		28.65		26.5		
PIPE SIZE		1-1/4"		4" SAN		21.5 GPM				

HOT WATER DEMAND CALCULATIONS				
(BASED ON ASHRAE/ASPE SERVICE WATER HEATING CHAPTER)				
MARK	QTY	FIXTURE/EQUIPMENT	INDIVIDUAL DEMAND GAL/HR/FIXTURE (140 DEGREE, F.)	TOTAL DEMAND GAL/HR/FIXTURE (140 DEGREE, F.)
GENERAL SERVICE LOAD:				
LAV	2	LAVATORY - PUBLIC	6	12
SINK	1	SINK	20	20
MOP	1	MOP SINK	20	20
WASHER	2	WASHING MACHINE	20	40
ST. SINK	2	ST. SINK	10	20
TOTAL GENERAL SERVICE DEMAND (140 DEGREE, F.)				112
GENERAL SERVICE LOAD (CLUB CLASSIFICATION):				
TOTAL DEMAND (140 DEGREE, F.):			0.30 FACTOR:	33.6
TOTAL STORAGE (140 DEGREE, F.):			0.9 FACTOR:	30.24



2 RISER DIAGRAM- DOMESTIC WATER
SCALE: NTS

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PLUMBING SUPPLY PLAN RISER AND CACLS

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