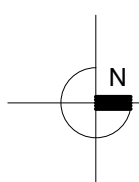
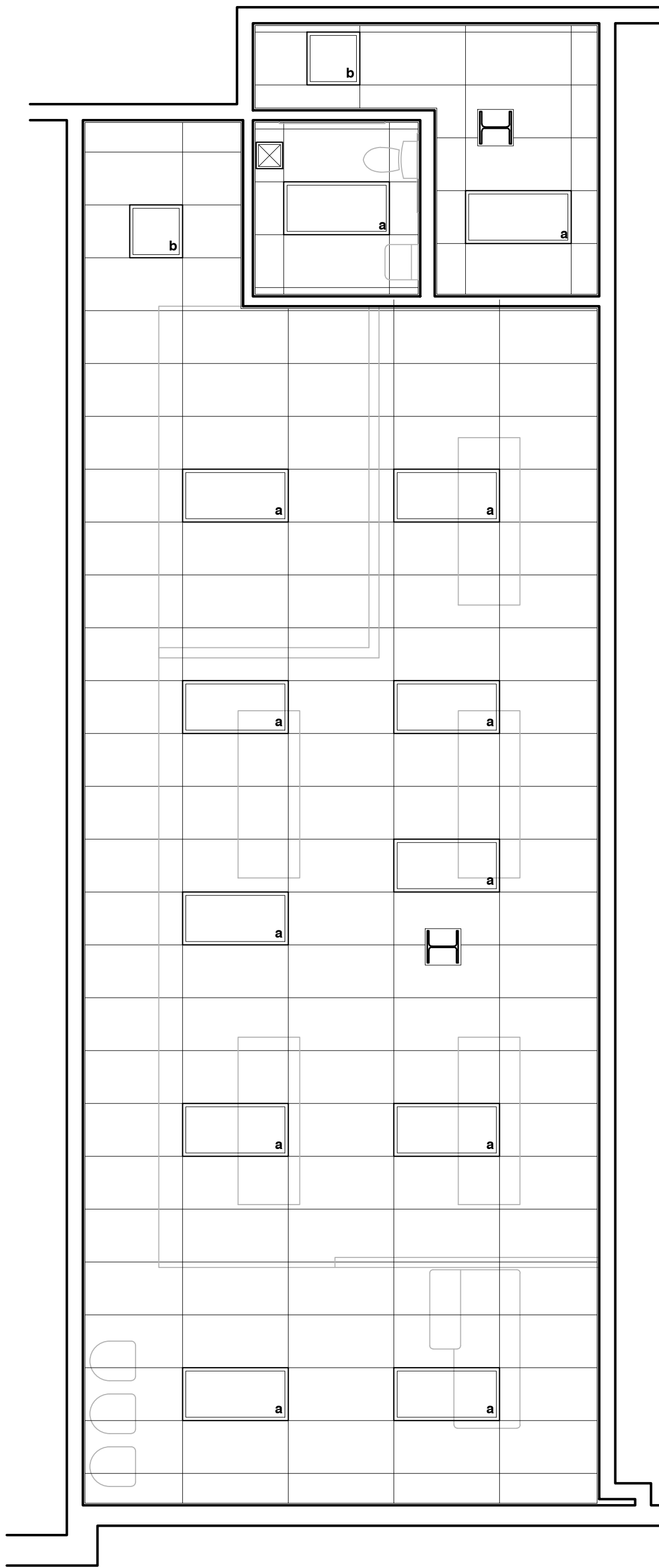


1 proposed  
Floor Plan

1/4" = 1'-0"



note all elements existing to remain unless indicated otherwise

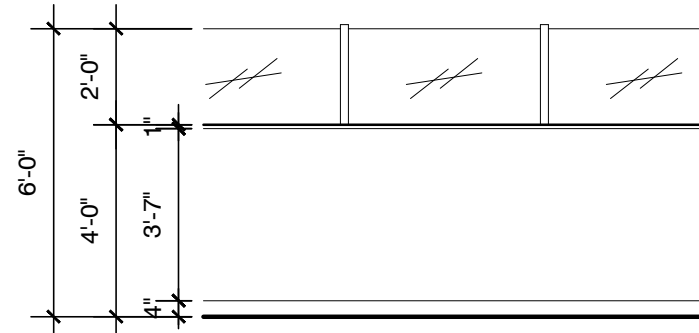


2 proposed  
Ceiling Plan

1/4" = 1'-0"



note all elements existing to remain unless indicated otherwise



3 proposed  
Half Wall with Glass Partition

1/4" = 1'-0"

- Symbols**
- existing construction to remain
  - new metal stud partitions
  - 42" high wall with glass partition above
  - new door and frame
  - existing door
  - door . hardware indicator
  - reference notes
  - wall . partition type
  - 2'-0" x 4'-0" Recessed Led Architectural Lensed Troffer. Steel Housing And Door Frame With White Powder Coat Finish, Round, Smooth Acrylic Lens, 0-10v 10% Dimming Led Driver.
  - 2'-0"x2'-0" Recessed Led Architectural Lensed Troffer. Steel Housing And Door Frame With White Powder Coat Finish, Round, Smooth Acrylic Lens, 0-10v 10% Dimming Led Driver.
  - suspended acoustical tile system . landlord provided
  - exhaust fan . refer MEP
  - HVAC supply grille . refer MEP
  - HVAC return grille . refer MEP

**Toilet Accessories . Standards**

Restrooms are to be equipped with and constructed to the following tolerances:  
(dimensions noted to top of units aff and centerline of units horizontally unless noted otherwise)  
[00.00] indicates ADADG Section reference unless noted otherwise

**Wheelchair Turning Space**

60 inch diameter turning space [304.3.1]

**Water Closet Clear Floor Space**

60 x 56 inch clear floor space [804.3.1]

**Lavatory Clear Floor Space**

30 x 48 inch clear floor space [806.2]

**Signage**

Provide ADA compliant placard at 60" aff to horizontal centerline of sign . mount on door

**Double Toilet Paper Holder**

Mount 32" from rear wall and 24" aff [604.7]

**Paper Towel Dispenser**

Stainless steel C-fold towel dispenser [302.2.1]

**Mirror**

Mount centered over lavatory and 40" aff to bottom [603.3]

**Grab Bars** . Bobrick or equal

Rear: 1 1/4" dia x 36" [604.5.2] Model B-6806.99x36

Mount with centerline at 34" aff 6" from side wall

Side: 1 1/4" dia x 42" [604.5.1] Model B-6806.99x42

Mount with centerline at 34" aff 12" from rear wall

Vertical: 1 1/4" dia x 18" . Model B-6806.99x18

Mount vertical at 40" from rear wall with bottom at 40" aff

**Sink Piping**  
All exposed under sink piping to be insulated

**Door Schedule**

**Door . Frame . Size**

**A1 Existing Exterior Door** 3-0 x 7-0  
Medium stile full lite aluminum storefront door

**B1 Existing Exterior Door** 3-0 x 7-0  
Hollow metal door and frame

**C1 Interior Door** 3-0 x 7-0  
Solid core flush panel paint grade door in hollow metal frame to match existing

**Hardware**

-Unless indicated otherwise, all door sets to be 'Schlage' or equal commercial [grade 2] ADA compliant lever type . nickel finish

- Verify existing hardware is in good working order . provide new panic hardware
- Privacy set . 1.5 pair bb butt hinges . wall stop . silencers

**Wall . Partition Schedule**

**1 Exterior Wall Assembly** existing  
Masonry exterior wall with exterior plaster finish . brick veneer as occurs

**2 Interior Demising Wall** existing  
Existing full height [to deck] wall assembly to remain . prepare existing gypsum board for scheduled finishes

**3 Interior Partition**  
3 5/8" 25 ga studs at 16" oc with 5/8" gypsum board each side to bottom of structure . brace to structure above . full mud.tape.finish . wr gypsum board at wet locations

**4 Interior Partition**  
6" 25 ga studs at 16" oc with 5/8" gypsum board each side to bottom of structure . brace to structure above . full mud.tape.finish . wr gypsum board at wet locations

**5 Interior Partition** partial wall  
3 5/8" 25 ga studs at 16" oc with 5/8" gyp bd each side . full mud.tape.finish . top of metal framing at 48" aff with 2x nailer atop with stikwood cap . provide Hilti 3478046 4-0 Knee Wall Support at unsupported ends . 36" glass partition installed on top of partial wall

**Reference Notes**

**01 General**

**1.01** All furnishings and equipment provided by Tenant and installed by GC except as specifically indicated

**1.02** Patient tables . coordinate location and spacing with Tenant

**10 Specialties**

**10.01** Commercial grade fire extinguisher on bracket . verify final location with Fire Inspector

**10.02** Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches high with a minimum stroke width of 0.5 inch.

**Project Description**

Project scope includes limited demolition to existing framed partitions, new framed partitions, drywall, limited electrical systems, doors and hardware, and related elements.

Existing building construction is comprised of concrete floor slabs . steel building frame . exterior brick and plaster systems. interior metal stud partitions . membrane roofing

**General Notes**

**1** All construction and installations shall meet the requirements of applicable Codes and Ordinances

**2** Contractor and subcontractors to field verify all dimensions and conditions prior to fabrications and installations

**3** All material shall be new and unused unless indicated otherwise; construction, installations, fit, and finishes shall exhibit first class workmanship

**4** Drawings indicate design intent only: operations, methods, and installations sole responsibility of General and Sub Contractors

**5** Unless noted or indicated otherwise dimensions are to face of finished wall and other vertical elements

**6** Subcontractors shall visit project site, acquaint themselves with and verify existing conditions prior to fabrication and/or installation of any work . notify Architect immediately of any discrepancies discovered

**7** Do not scale drawings . perform layouts from dimensions only . notify Architect immediately of any discrepancies discovered

**8** Unless indicated otherwise, new wall construction not specifically dimensioned aligns with existing construction

**9** Each trade responsible for protecting existing work in place from damage and responsible for repairing to original condition any affected materials and/or installations

**10** Subcontractors shall coordinate their work with that of other trades

**11** Subcontractors shall remove daily from premises trash, waste, and debris generated from their work

**12** All work shall conform with latest published safety standards as established by OSHA and ANSI

**13** Procedure with work constitutes acceptance of existing conditions . substrates

**14** Premises shall be left fully cleaned and ready for Owner acceptance at completion of work

**15** All materials and assemblies to be installed in strict accordance with manufacturer requirements and industry standards unless specifically indicated otherwise

**Project Code Data**

**Building Code**

2018 International Building Code

**Electrical Code**

2017 National Electrical Code

**Mechanical Code**

2018 International Mechanical Code

**Fire Protection**

2018 International Fire Code

**Plumbing Code**

2018 International Plumbing Code

**Accessibility**

Americans with Disabilities Act Accessibility Guidelines

2010 Accessible and Usable Buildings

**Use Group**

'B' Business . Section 304

**Gross Tenant Area**

1,139 gross square feet

[calculated to exterior face of perimeter walls and centerline of demising walls]

**Construction Type**

II-B Section 605.2 . Table 601

**Occupant Load** Table 1004.5

**Area Standards**

Accessory Areas 1 occ / 300 sf

Business Areas 1 occ / 150 sf

Institutional Outpatient Areas 1 occ / 100 sf

**Use Group**

'B' Business . Section 304

**Gross Tenant Area**

1,139 gross square feet

[calculated to exterior face of perimeter walls and centerline of demising walls]

**Construction Type**

II-B Section 605.2 . Table 601

**Occupant Load** Table 1004.5

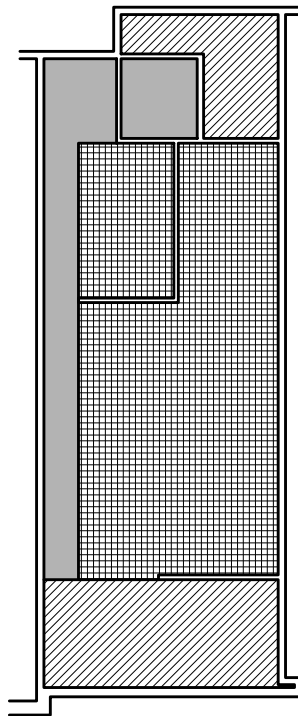
**Area Standards**

Accessory Areas 189 sf = 1 occ

Business Areas 263 sf = 1 occ

Institutional Outpatient Areas 594 sf = 5 occ

**Total** 7 occupants



**Occupant Diagram** No Scale  
Business Area  
Accessory Areas  
Exercise Area

**Egress Width**

0.20" per occupant Table 1005.3.2

Required 7 occ x 0.20" = 1.4" (1 exits)

Provided 72.00" (2 exits)

GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, TENANT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM AS BUILT DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE DEMOLITION WORK AND NEW WORK WITH EXISTING CONDITIONS AND OTHER TRADES PRIOR TO CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE PLUMBING SYSTEMS. VERIFY CHASE AND PENETRATION LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING MEET REQUIREMENTS.
4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

PLAN NOTES:

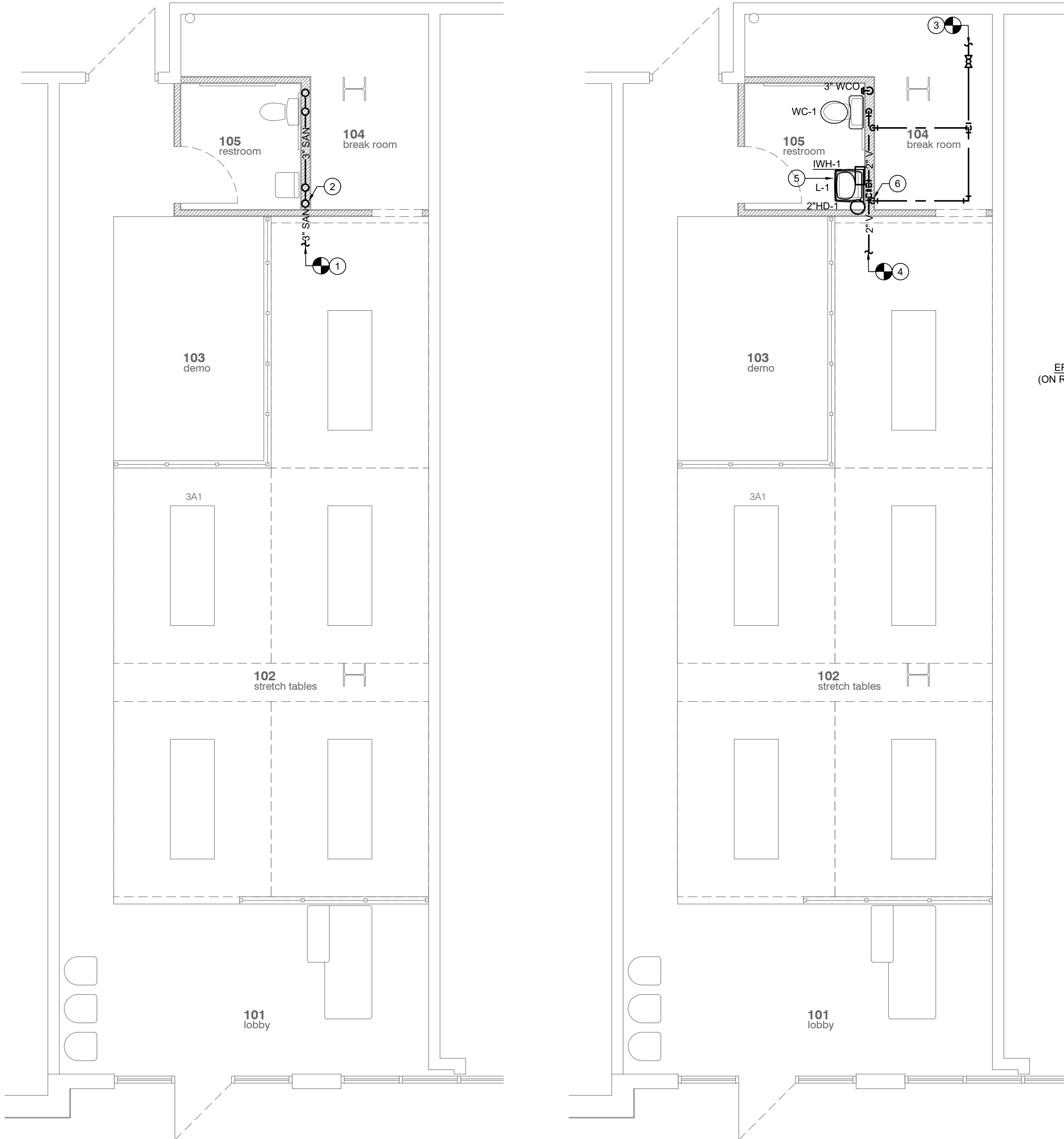
1. CONNECT NEW UNDERGROUND SAN TO EXISTING UNDERGROUND SAN MAIN. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
2. 2" SAN UP TO 2" HUB DRAIN ABOVE.
3. 1" CW, EXTEND TO EXISTING BUILDING SERVICE ENTRANCE AND CONNECT. FIELD VERIFY EXACT LOCATION.
4. 2" V, EXTEND TO NEAREST VENT RISER OF EQUAL OR GREATER SIZE AND CONNECT. FIELD VERIFY EXACT LOCATION.
5. INSTALL MIXING VALVE SCHEDULED IN PLUMBING FIXTURE SCHEDULE. INSTALL MIXING VALVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
6. 1/2" CW DOWN TO L-1 & IWH-1 BELOW.
7. 1" HVAC CONDENSATE, ROUTE TO HUB DRAIN PROVIDED BY PLUMBER AND TERMINATE.
8. PROVIDE AND INSTALL OVERFLOW CONDENSATE DRAIN PAN UNDER DX PORTIONS OF UNIT. PROVIDE AND INSTALL MOISTURE SENSING DEVICE IN DRAIN PAN TO SHUT DOWN AHU WHEN MOISTURE IS SENSED IN OVERFLOW DRAIN PAN.

PLUMBING FIXTURE CONN. SCHEDULE					
FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1	1/2"	1/2"	2"	1-1/2"
FLUSH TANK WATER CLOSET	WC-1	1-1/2"	--	4"	2"
2" HUB DRAIN	2"HD-1	--	--	2"	1-1/2"

DUCT INSULATION SCHEDULE	
INDOOR SUPPLY AIR DUCT	FIBERGLASS BLANKET: 1-1/2" THICK, 0.75-LB/CU. FT
INDOOR RETURN AIR DUCT	FIBERGLASS BLANKET: 1-1/2" THICK, 0.75-LB/CU. FT
INDOOR EXHAUST DUCT	NONE
OUTDOOR SUPPLY AIR DUCT	FIBERGLASS BLANKET: 3" THICK, 1.5-LB/CU. FT WITH PAINTABLE ALUMINUM JACKET
OUTDOOR EXHAUST AIR DUCT	FIBERGLASS BLANKET: 3" THICK, 1.5-LB/CU. FT WITH PAINTABLE ALUMINUM JACKET

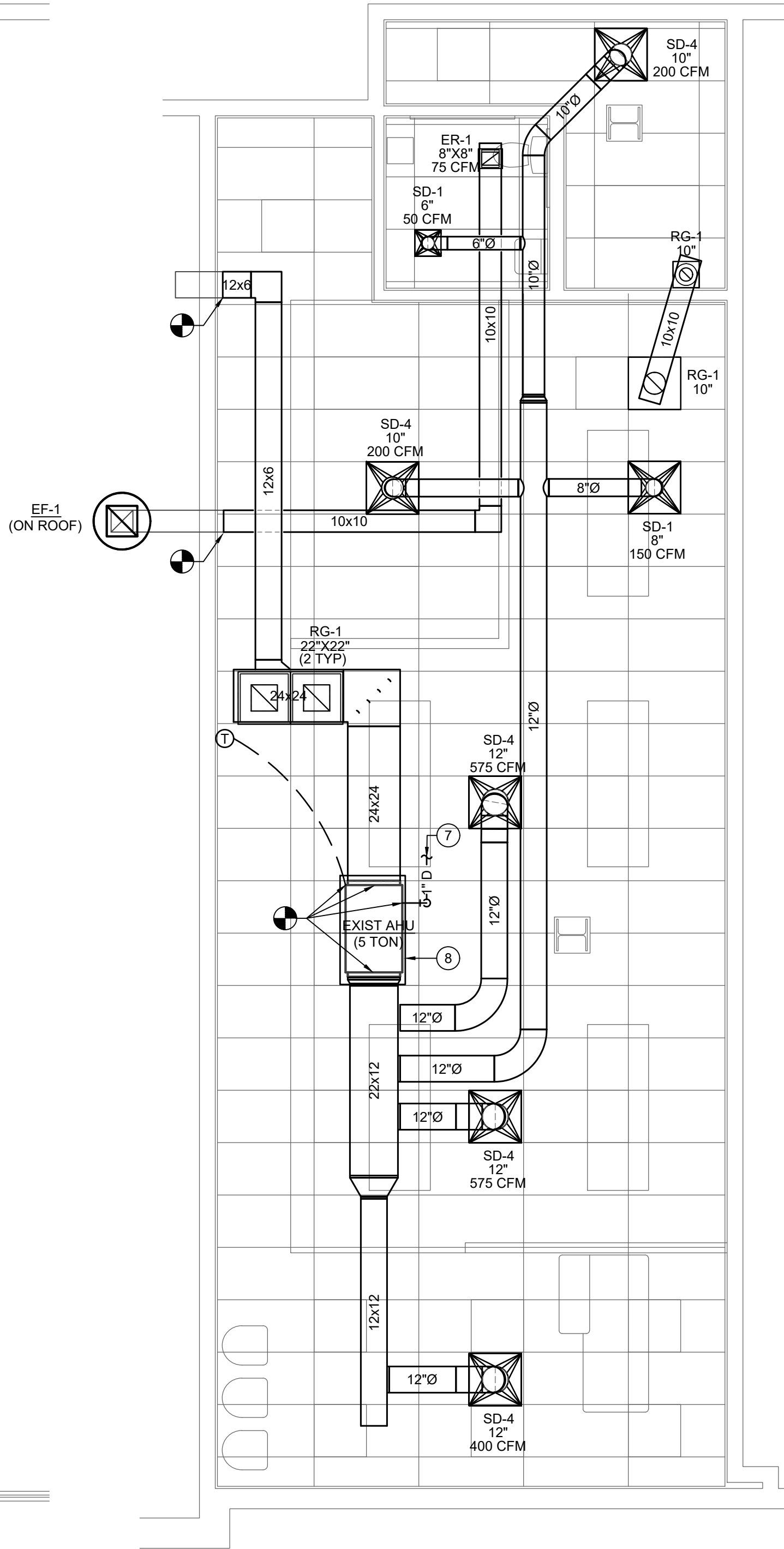
PIPE INSULATION SCHEDULE	
DOMESTIC COLD WATER	PREFORMED FIBERGLASS WITH ASI : 1" THICK, 3.5-LB/CU. FT
DOMESTIC HOT WATER	PREFORMED FIBERGLASS WITH ASI : 1" THICK, 3.5-LB/CU. FT
DOMESTIC RECIRCULATING HOT WATER	PREFORMED FIBERGLASS WITH ASI : 1" THICK, 3.5-LB/CU. FT
INTERIOR HVAC CONDENSATE	ARMAFLEX: 1/2" THICK
REFRIGERANT LINES	ARMAFLEX: 1/2" THICK

AIR TERMINAL DEVICES SCHEDULE								
PLAN MARK	QUANTITY	MANUFACTURER	MODEL	SERVICE	MOUNT TYPE	BORDER SIZE	NECK SIZE	VOLUME DAMPER
ER-1	1	TITUS	350FL	EXHAUST	SURFACE	--	8"X8"	YES
RG-1	1	TITUS	PAR	RETURN	LAY-IN	12"X12"	10"	NO
RG-1	2	TITUS	PAR	RETURN	LAY-IN	24"X24"	22"X22"	NO
RG-1	1	TITUS	PAR	RETURN	LAY-IN	24"X24"	10"	NO
SD-1	1	TITUS	OMNI	SUPPLY	LAY-IN	12"X12"	6"	YES
SD-1	1	NAILOR	RNS2	SUPPLY	LAY-IN	24"X24"	8"	YES
SD-4	2	TITUS	OMNI	SUPPLY	LAY-IN	24"X24"	10"	YES
SD-4	3	TITUS	OMNI	SUPPLY	LAY-IN	24"X24"	12"	YES

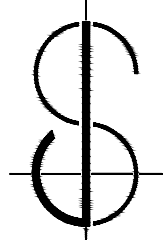


3 FLOOR PLAN - PLUMBING  
1/4"=1'-0"

2 UNDERSLAB PLAN - PLUMBING  
1/4"=1'-0"



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



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Project Number 21.192.02

Revisions

interior improvements for

**Stretchzone**

940 NW Pryor Rd . Suite B  
Lee's Summit . Missouri

s h e e t

**M1**

MECHANICAL  
PLANS

permit . bid  
20 July 2021

PLUMBING FIXTURE SCHEDULE						
PLAN MARK	MANUFACTURER AND MODEL	FIXTURE DESCRIPTION	ACCESSORIES MANUFACTURER AND MODEL	ACCESSORIES DESCRIPTION	SIZE	NOTES
2"HD-1	MIFAB MI-950-F	2" FUNNEL DRAIN WITH DEEP SEAL TRAP				
L-1	AMERICAN STANDARD LUCERNE 0356.041	VITREOUS CHINA, ADA COMPLIANT, D-SHAPED BOWL WALL HUNG LAVATORY.	1.) AMERICAN STANDARD COLONY 2175.205 2.) LAWLER TMM-1070	1.) SINGLE CONTROL CENTERSET FAUCET WITH METAL LEVER HANDLE. 2.) ASSE1070 COMPLIANT POINT OF USE THERMOSTATIC MIXING VALVE WITH BRONZE BODY, TAMPER RESISTANT COVER AND CHECK VALVES. SET OUTLET TEMPERATURE TO 95 DEG F.	-	PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN, CHROME PLATED BRASS P-TRAP, ANGLED STOP VALVES AND FLEXIBLE RISERS. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS WITH ADA COMPLIANT INSULATION. MOUNT MIXING VALVE BELOW SINK AND PROVIDE A SINGLE TEMPERED WATER CONNECTION TO FAUCET.
WC-1	AMERICAN STANDARD CADET 3 FLOWISE 2832.128	ADA COMPLIANT, FLOOR MOUNTED, FLUSH TANK, VITREOUS CHINA WATER CLOSET.	CHURCH 9500 C	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	-	

EXHAUST FAN SCHEDULE								
UNIT CALLOUT	UNIT INFORMATION							NOTES
	MFG	MODEL NO.	TYPE	EXT STATIC (IN WC)	FLOW (CFM)	HP	VOLT/ PHASE	
EF-1	COOK	ACE	DNBLAST	1.1	75	1/2	120/1	1

- NOTES:
- SUPPLY WITH FACTORY STARTER, ECM MOTOR WITH SPEED CONTROLLER, DISCONNECT, INSECT SCREEN AND ROOF CURB.

INSTANTANOUS ELECTRIC WATER HEATER SCHEDULE								
UNIT CALLOUT	UNIT INFORMATION							NOTES
	MFG	MODEL NO.	CAP. (GPM)	EWT (°F)	LWT (°F)	TOTAL INPUT (KW)	VOLT/ PH	
IWH-1	EEMAX	SPEX2412	0.28	50	109	2.4	120/1	--

## MECHANICAL SPECIFICATIONS

### 1. HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT

#### DEFINITIONS

Terminology: As defined in MSS SP-90, "Guidelines on Terminology for Pipe Hangers and Supports."

#### PERFORMANCE REQUIREMENTS

Design supports for multiple pipes capable of supporting combined weight of supported systems, system contents, and test water.

Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

#### PRODUCTS

##### STEEL PIPE HANGERS AND SUPPORTS

Description: MSS SP-58, Types 1 through 58, factory-fabricated components. Refer to Part 3 "Hanger and Support Applications" Article for where to use specific hanger and support types.

##### TRAPEZE PIPE HANGERS

Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural-steel shapes with MSS SP-58 hanger rods, nuts, saddles, and U-bolts.

##### METAL FRAMING SYSTEMS

Description: MFMA-3, shop- or field-fabricated pipe-support assembly made of steel channels and other components.

#### EXECUTION

##### HANGER AND SUPPORT APPLICATIONS

Specific hanger and support requirements are specified in Sections specifying piping systems and equipment. Comply with MSS SP-69 for pipe hanger selections and applications that are not specified in piping system Sections. Use hangers and supports with galvanized, metallic coatings for piping and equipment that will not have field-applied finish. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.

Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated stationary pipes, NPS 1/2 to NPS 30 (DN 15 to DN 750). Adjustable, Steel Band Hangers (MSS Type 7): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 9 (DN 15 to DN 200). Complete Pipe Rolls (MSS Type 44): For support of pipes, NPS 2 to NPS 42 (DN 50 to DN 1050), if longitudinal movement caused by expansion and contraction might occur but vertical adjustment is not necessary.

Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Steel Clevises (MSS Type 14): For 120 to 450 deg F (49 to 232 deg C) piping installations. Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types: Steel Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation. Thermal-Hanger Shield Inserts: For supporting insulated pipe. Comply with MSS SP-69 for trapeze pipe hanger selections and applications that are not specified in piping system Sections.

### 2. MECHANICAL INSULATION

#### PRODUCTS

##### INSULATION MATERIALS

Comply with requirements in Part 3 schedule articles for where insulating materials shall be applied.

Fiber-Glass: Inorganic, incombustible, foamed or cellulated glass with annealed, rigid, hermetically sealed cells, with factory applied All Service Jacket (ASJ) painted in color selected by architect.

##### INSULATING CEMENTS

Mineral-Fiber, Hydraulic-Setting Insulating and Finishing Cement: Comply with ASTM C 449/C 449M.

##### FACTORY-APPLIED JACKETS

Insulation system schedules indicate factory-applied jackets on various applications. When factory-applied jackets are indicated, comply with the following: ASJ: White, kraft-paper, fiberglass-reinforced scrim with aluminum-foil backing; complying with ASTM C 1136, Type I.

#### EXECUTION

##### PREPARATION

Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application. Coordinate insulation installation with the trade installing heat tracing. Comply with requirements for heat tracing that apply to insulation. Mix insulating cements with clean potable water; if insulating cements are to be in contact with stainless-steel surfaces, use demineralized water.

##### GENERAL INSTALLATION REQUIREMENTS

Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of equipment, ducts and fittings, and piping including fittings, valves, and specialties. Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of equipment, duct system, and pipe system as specified in insulation system schedules. Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state. Install insulation with longitudinal seams at top and bottom of horizontal runs. Install multiple layers of insulation with longitudinal and end seams staggered. Do not weld brackets, clips, or other attachment devices to piping, fittings, and specialties.

Keep insulation materials dry during application and finishing. Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer. Install insulation with least number of joints practical. Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic. Install insulation continuously through hangers and around anchor attachments. For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic. Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer. Cover inserts with jacket material matching adjacent pipe insulation. Install shields over jacket, arranged to protect jacket from tear or puncture by hanger, support, and shield. Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses. Apply mastic on seams and joints and at ends adjacent to duct and pipe flanges and fittings. Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness. Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.

Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches (100 mm) beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.

#### PENETRATIONS

Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.

Insulation Installation at Fire-Rated Wall and Partition Penetrations: Install insulation continuously through penetrations of fire-rated walls

and partitions. Terminate insulation at fire damper sleeves for fire-rated wall and partition penetrations. Otherwise insulate damper sleeves to match adjacent wall insulation and overlap duct insulation at least 2 inches (50 mm).

Pipe: Install insulation continuously through floor penetrations. Seal penetrations through fire-rated assemblies.

#### DUCT INSULATION SCHEDULE, GENERAL

##### Plenums and Ducts Requiring Insulation:

Indoor, concealed supply and outdoor air. Indoor, exposed outdoor air. Indoor, concealed return located in nonconditioned space. Indoor, concealed.

##### INDOOR DUCT AND PLENUM INSULATION SCHEDULE

Supply-Air, Return-Air and Make Up Air Duct Insulation: Fiberglass blanket, 1-1/2 inches (38 mm) thick and 1.5-lb/cu. ft. (24-kg/cu. M) nominal density.

##### INDOOR PIPING INSULATION SCHEDULE, GENERAL

Acceptable preformed pipe and tubular insulation materials and thicknesses are identified for each piping system and pipe size range. If more than one material is listed for a piping system, selection from materials listed is Contractor's option.

##### INDOOR PIPING INSULATION SCHEDULE

Domestic Cold Water, Hot Water and Hot Water Recirc. Fiberglass: 3/4 inches thick.

### 3. DOMESTIC WATER PIPING

#### PRODUCTS

##### PIPING MATERIALS

Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, fitting materials, and joining methods for specific services, service locations, and pipe sizes.

##### COPPER TUBE AND FITTINGS

Hard Copper Tube: ASTM B 88, Type L (ASTM B 88M, Type B) PIPING JOINING MATERIALS Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.

##### FLEXIBLE CONNECTORS

Stainless-Steel-Hose Flexible Connectors: Corrugated-stainless-steel tubing with stainless-steel wire-braid covering and ends welded to inner tubing.

#### EXECUTION

##### PIPING INSTALLATION

Install copper tubing under building slab according to CDA's "Copper Tube Handbook."

Install piping concealed from view and protected from physical contact by building occupants unless otherwise indicated and except in equipment rooms and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or install piping above accessible ceilings to allow sufficient space for ceiling panel removal, and coordinate with other services occupying that space. Install piping adjacent to equipment and specialties to allow service and maintenance. Install piping to permit valve servicing. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install shut off valves with unions in copper tubing at final connection to each piece of equipment, machine, and specialty.

#### JOINT CONSTRUCTION

Ream ends of pipes and tubes and remove burrs. Bevel plain ends o steel pipe. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly. Soldered Joints: Apply ASTM B 813, water-flushable flux to end of tube. Join copper tube and fittings according to ASTM B 828 or CDA's "Copper Tube Handbook."

#### VALVE INSTALLATION

Install shutoff (ball) valve close to water main on each branch and riser serving plumbing fixtures or equipment, on each water supply to equipment, and on each water supply to plumbing fixtures that do not have supply stops.

Install drain valves for equipment at base of each water riser, at low points in horizontal piping, and where required to drain water piping.

#### CONNECTIONS

Install piping adjacent to equipment and machines to allow service and maintenance. Connect domestic water piping to exterior water-service piping. Use transition fitting to join dissimilar piping materials.

#### ESCUICHEON INSTALLATION

Install escutcheons for penetrations of walls, ceilings, and floors.

#### PIPING SCHEDULE

Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.

Aboveground domestic water piping, shall be Hard copper tube, ASTM B 88, Type 1.

### 4. INTERIOR SANITARY WASTE AND VENT PIPING

#### PRODUCTS

##### PIPING MATERIALS

PVC Pipe: ASTM D 2665, solid-wall drain, waste, and vent.

#### EXECUTION

##### PIPING APPLICATIONS

Aboveground, interior, soil, waste, and vent piping shall be PVC Pipe with socket fittings and solvent welded joints. Underground, soil, waste, and vent shall be PVC Pipe with socket fittings and solvent welded joints.

##### PIPING INSTALLATION

Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited. Lay buried building drainage piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements. Maintain swab in piping and pull past each joint as completed. Install soil and waste drainage and vent piping at the code required minimum slopes. Install PVC soil and waste drainage and vent piping according to ASTM D 2665. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

#### JOINT CONSTRUCTION

PVC Nonpressure Piping Joints: Join piping according to ASTM D 2665.

### 5. FACILITY NATURAL-GAS PIPING

#### PRODUCTS

##### PIPES, TUBES, AND FITTINGS

Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B.

#### JOINING MATERIALS

Joint Compound and Tape: Suitable for natural gas. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

#### MANUAL GAS SHUTOFF VALVES

Bronze Plug Valves: MSS SP-78.

#### MOTORIZED GAS VALVES

Electrically Operated Valves: Comply with UL 429.

#### EXECUTION

##### OUTDOOR PIPING INSTALLATION

Comply with NFPA 54 for installation and purging of natural-gas piping.

##### INDOOR PIPING INSTALLATION

Comply with NFPA 54 for installation and purging of natural-gas piping. Arrange for pipe spaces, chases, slots, sleeves, and openings

in building structure during progress of construction, to allow for mechanical installations. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Locate valves for easy access. Install natural-gas piping at uniform grade of 2 percent down toward drip and sediment traps. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Verify final equipment locations for roughing-in. Drips and Sediment Traps: Install drips at points where condensate may collect, including service-meter outlets. Locate where accessible to permit cleaning and emptying. Do not install where condensate is subject to freezing. Extend relief vent connections for service regulators, line regulators, and verpressure protection devices to outdoors and terminate with weatherproof vent cap. Conceal pipe installations in walls, pipe spaces, utility spaces, above ceilings, below grade or floors, and in floor channels unless indicated to be exposed to view.

#### CONNECTIONS

Connect to utility's gas main according to utility's procedures and requirements. Install natural-gas piping electrically continuous, and bonded to gas appliance equipment grounding conductor of the circuit powering the appliance according to NFPA 70. Install piping adjacent to appliances to allow service and maintenance of appliances. Connect piping to appliances using manual gas shutoff valves and unions. Install valve within 72 inches (1800 mm) of each gas-fired appliance and equipment. Install union between valve and appliances or equipment. Sediment Traps: Install tee fitting with capped nipple in bottom to form drip, as close as practical to inlet of each appliance.

#### OUTDOOR & INDOOR PIPING SCHEDULE

Aboveground natural-gas piping shall be Steel pipe with wrought-steel fittings and welded joints.

### 6. ROOF TOP UNITS

#### SUBMITTALS

Product Data: Include rated capacities, furnished specialties, and accessories.

#### PACKAGED UNITS

Factory-assembled, prewired, self-contained unit consisting of cabinet, supply fan, controls, filters, DX cooling system and direct-fired gas furnace to be installed outside the building.

#### AIR FILTERS

Comply with NFPA 90A.

#### DIRECT-FIRED GAS FURNACE

Description: Factory assembled, piped, and wired; and complying with ANSI Z83.4, "Direct Gas-Fired Make-Up Air Heaters"; ANSI Z83.18, "Direct Gas-Fired Industrial Air Heaters"; and NFPA 54, "National Fuel Gas Code."

#### CONTROLS

Factory-wired, fuse-protected control transformer, connection for power supply and field-wired unit to remote control panel.

#### EXECUTION

##### INSTALLATION

Install gas-fired units according to NFPA 54, "National Fuel Gas Code." Install roof curb on roof structure, according to ARI Guidelines. Install controls and equipment shipped by manufacturer for field installation with direct-fired H&V units.

### 7. METAL DUCTS

#### RECTANGULAR DUCTS AND FITTINGS

General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated.

#### ROUND DUCTS AND FITTINGS

General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 3, "Round, Oval, and Flexible Duct," based on indicated static-pressure class unless otherwise indicated.

General Material Requirements: Comply with SMACNA's "HVAC Duct Construction Standards Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections. Galvanized Sheet Steel: Comply with ASTM A 653/A 653M.

#### EXECUTION

##### DUCT INSTALLATION

Install duct systems as indicated unless deviations to layout are approved on Shop Drawings and Coordination Drawings. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated. Install round ducts in maximum practical lengths. Install ducts with fewest possible joints. Install factory- or shop-fabricated fittings for changes in direction, size, and shape and for branch connections. Unless otherwise indicated, install ducts vertically and horizontally, and parallel and perpendicular to building lines. Install ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building. Install ducts with a clearance of 1 inch (25 mm), plus allowance for insulation thickness. Route ducts to avoid passing through transformer vaults and electrical equipment rooms and enclosures. Where ducts pass through non-fire-rated interior partitions and exterior walls and are exposed to view, cover the opening between the partition and duct or duct insulation with sheet metal flanges of same metal thickness as the duct. Overlap openings on four sides by at least 1-1/2 inches (38 mm). Where ducts pass through fire-rated interior partitions and exterior walls, install fire dampers.

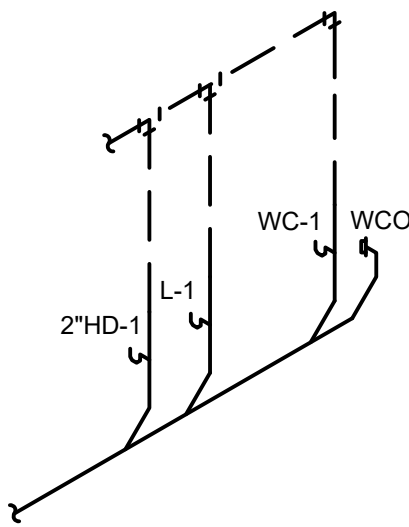
Az= Floor area  
Pz= Zone Population  
Rp= People Outdoor Air Rate  
Ra= Area Outdoor Air Rate

Existing AHU-1 Ventilation Calculation		5	Ton							
Room Name	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz	
Reception	Office Space	5	205	1	5	0.06	0.8	17	22	
Stretch Tables	Med Pric. Rm	20	250	6	15	0	0.8	87	109	
Stretch Tables	Corridor	0	250	0	0	0.06	0.8	17	22	
Demo	Med Pric. Rm	20	220	4	15	0	0.8	66	83	
Tlt	Toilet Room	0	60	0	0	0	0.8	0	0	
Break	Conference	50	100	5	5	0.06	0.8	31	39	
Tot										274 cfm

## 3 VENTILATION SCHEDULE

GENERAL		PLUMBING	
①	MECHANICAL NOTE REFERENCE	— SAN —	SOIL OR WASTE ABOVE GRADE OR FLOOR
②	DEMOLITION NOTE REFERENCE	— SAN —	SOIL OR WASTE BELOW GRADE OR FLOOR
△	REVISION NOTE REFERENCE	— - - V - - -	PLUMBING VENT
●	CONNECT TO EXISTING WORK	— - - - -	DOMESTIC COLD WATER
		— - - - -	DOMESTIC HOT WATER
		— G —	GAS (NATURAL)
		⊕ FCO	FLOOR CLEAN OUT
		→ WCO	WALL CLEAN OUT
		⊕ HB	HOSE BIBB
		⊕	FLOOR SINK, FLOOR DRAIN, AREA DRAIN
		⊕ #	PLUMBING VENT RISER CALL-OUT
		— ⊕ —	ELBOW DOWN
		— ⊕ —	ELBOW UP
		— ⊕ —	TEE UP
		— ⊕ —	TEE DOWN

## 1 MECHANICAL SYMBOLS



## 2 PLUMBING RISER DIAGRAM




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7-20-21  
Project Number 21.192.02

## Revisions

interior improvements for

# Stretchzone

940 NW Pryor Rd. Suite B  
Lee's Summit - Missouri

s h e e t

# M2

MECHANICAL  
SCHEDULES

permit. bld  
20 July 2021



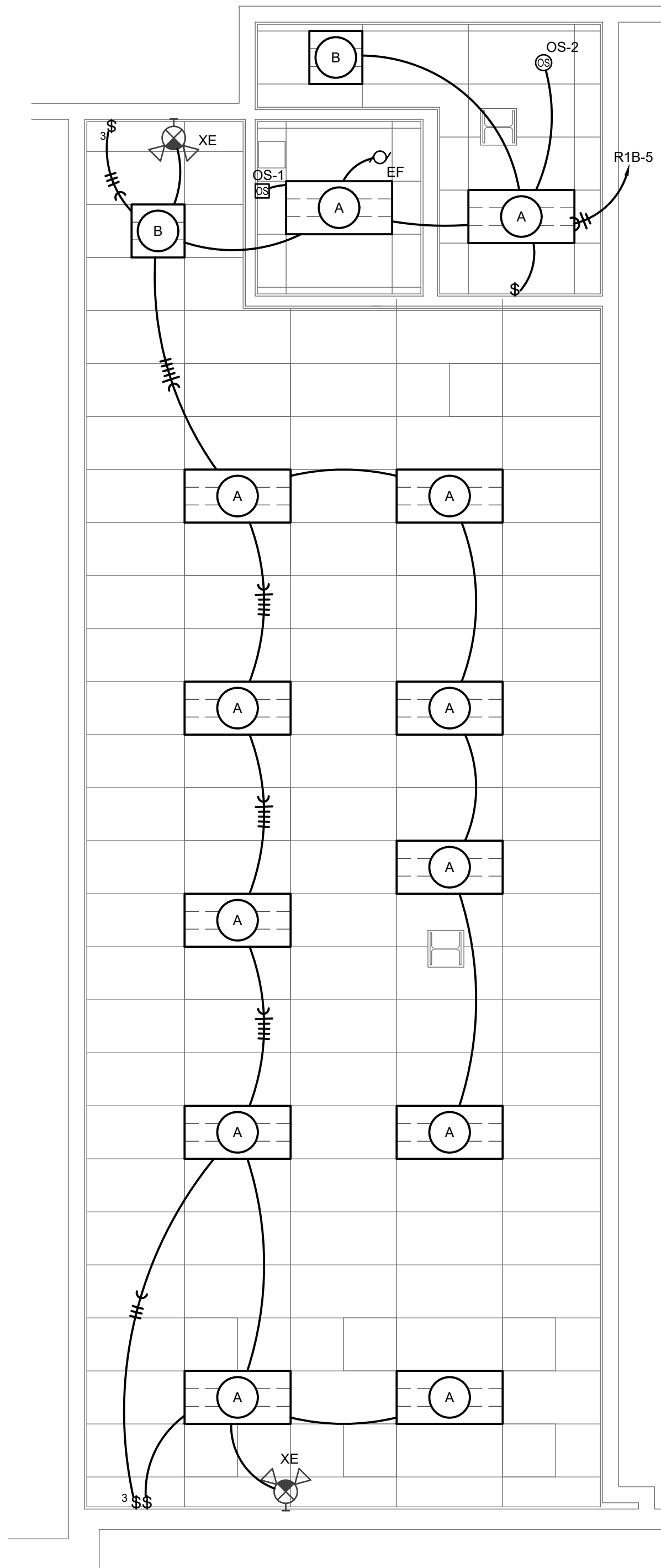
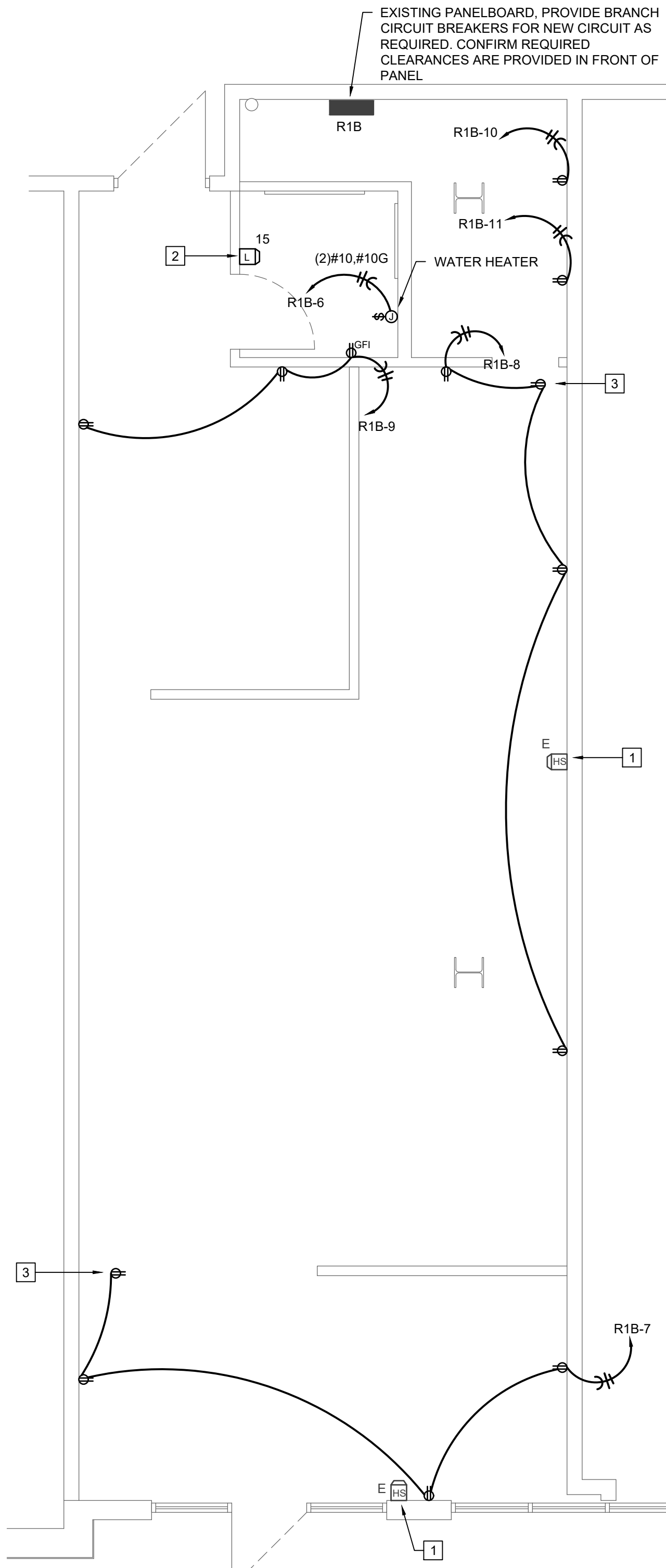
OCCUPANCY SENSOR SCHEDULE							
TAG	QTY (CONFIRM WITH PLANS)	MANUFACTURER	MODEL	MOUNTING	TYPE	TIME DELAY SETTING	NOTES
OS-1	1	LEVITON	MDS10-ID	WALL	PASSIVE INFRARED	15 MIN	
OS-2	1	LEVITON	OSC10-RMW	CEILING	DUAL TECHNOLOGY	15 MIN	FURNISH WITH POWER PACK(S) AND ISOLATED RELAY

LIGHT FIXTURE SCHEDULE									
TAG	QUANTITY (CONFIRM WITH PLANS)	DESCRIPTION	VOLTAGE	MOUNTING	LAMPING			MANU/SERIES	VA
					QTY	WATTAGE	TYPE/COLOR TEMP		
A	12	2'-0"x4'-0" RECESSED LED ARCHITECTURAL LENSED TROFFER. STEEL HOUSING AND DOOR FRAME WITH WHITE POWDER COAT FINISH, ROUND, SMOOTH ACRYLIC LENS, 0-10V 10% DIMMING LED DRIVER.	120	RECESSED GRID	--	38	LED/4000K/4800 LUMEN	LITHONIA#2BLT4-48L-ADSM	38
B	2	2'-0"x2'-0" RECESSED LED ARCHITECTURAL LENSED TROFFER. STEEL HOUSING AND DOOR FRAME WITH WHITE POWDER COAT FINISH, ROUND, SMOOTH ACRYLIC LENS, 0-10V 10% DIMMING LED DRIVER.	120	RECESSED GRID	--	27	LED/4000K/3300LM	LITHONIA#2BLT2-48L-ADSM	27
XE	2	EXISTING COMBINATION EXIT SIGN/EMERGENCY LIGHT TO REMAIN. RECIRCUIT WHERE SHOWN.	120	WALL	3	6	LED	EXISTING	5

Panel R1B Schedule													
VOLTAGE: 120/208 V			BUS RATING: 225 A			MOUNTING: SURFACE			FED FROM: ----				
PHASE WIRE: 3 PH /4 W			MAIN TYPE & SIZE: 225 A MLO			MIN AIC: 10000							
CIRC	CIRCUIT DESCRIPTION	OCPD		PHASE LOAD VA						OCPD		CIRCUIT DESCRIPTION	CIRC
		AMP	POLE	A		B		C		POLE	AMP		
1,3	AHU (EXISTING)	70	2	6000	2912	6000	2912			2	50	ACCU (EXISTING)	2,4
5	LIGHTING (NEW)	20	1	0	0	0	0	640	2400	1	25	WATER HEATER (NEW)	6
7	RECEPTS (NEW)	20	1	720	720	0	0	0	0	1	20	RECEPTS (NEW)	8
9	RECEPTS (NEW)	20	1	0	0	540	180	0	0	1	20	BREAK REC (NEW)	10
11	BREAK REC (NEW)	20	1	0	0	0	0	180	0	1	0	SPACE	12
13	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	14
15	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	16
17	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	18
19	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	20
21	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	22
23	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	24
25	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	26
27	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	28
29	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	30
31	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	32
33	SPARE	0	1	0	0	0	0	0	0	1	0	SPARE	34
35	SPARE	0	1	0	0	0	0	0	0	1	0	SPACE	36
37	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	38
39	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	40
41	SPACE	0	1	0	0	0	0	0	0	1	0	SPACE	42

LOAD CATEGORY	CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	NOTES: GFI - GROUND FAULT CIRCUIT BREAKER LCK - HANDLE PADLOCK ATTACHMENT ST - SHUNT TRIP
Motor - Non AC	0.0	1.00	0.0	
Motor - Non AC (Largest)	0.1	1.25	0.1	
Other	2.4	1.00	2.4	
Receptacles (0 - 10 KVA)	2.3	1.00	2.3	
Heat	12.0	0.00	0.0	PANEL IS EXISTING, PROVIDE NEW CIRCUIT BREAKERS FOR NEW CIRCUITS AS REQUIRED.
Lighting	0.5	1.25	0.7	
Motor - Air Conditioning	0.0	1.00	0.0	
Motor - Air Conditioning (Largest)	5.8	1.25	7.3	
TOTAL	23.2		12.8	
TOTAL DEMAND	35.6	AMPS		
TOTAL PANEL SPARE	164.4	AMPS		

GENERAL		COMMUNICATIONS		WIRING DEVICES	
	ELECTRICAL NOTE REFERENCE		TELEPHONE OUTLET	NOTE: REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS NOT LISTED.	
	REVISION NOTE REFERENCE		DATA OUTLET		SIMPLEX, DUPLEX, AND QUAD RECEPTACLE. MOUNT AT 18" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	CONNECT TO EXISTING WORK		TELEPHONE/DATA OUTLET		ABOVE COUNTER RECEPTACLE, MOUNT 5" ABOVE BACKSPLASH OR COUNTER TOP, WHICHEVER IS HIGHER.
	DETAIL REFERENCE - NO./SHEET NO.		TELEVISION OUTLET		ABOVE COUNTER RECEPTACLE, MOUNT 5" ABOVE BACKSPLASH OR COUNTER TOP, WHICHEVER IS HIGHER.
CONDUIT AND WIRE			PLYWOOD BOARD FOR EQUIPMENT MOUNTING		RECEPTACLE DESIGNATIONS: GFI - GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WP - WEATHER RESISTANT RECEPTACLE WITH "IN-USE" COVER. U - DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS, LEVITON T5832 OR EQUAL
	CONDUIT HOMERUN TO PANEL NOTED WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE CONDUCTORS, LONG MARKS INDICATE NEUTRAL CONDUCTORS.	POWER DEVICE AND CONTROLS		\$	WALL SWITCH, SINGLE POLE, MOUNT AT 46" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE
	GROUND WIRE, #12 AWG UNLESS NOTED OTHERWISE.		DISCONNECT SWITCH. 30/3/NF INDICATES AMPERAGE, NUMBER OF POLES, AND FUSING. NF = NON FUSED. MATCH CIRCUIT VOLTAGE. 240 VOLT, 3 POLE, 30 AMP NON FUSED IF BLANK.	\$ <sup>3</sup>	WALL SWITCH DESIGNATIONS: 3 - THREE POLE SWITCH 4 - FOUR-WAY WALL SWITCH D - 0-10V WALLBOX DIMMER
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE.		MOTOR	Ⓜ-MS-1	MOTION SENSOR, CEILING MOUNTED. DESIGNATION INDICATES TYPE - REFER TO OCCUPANCY SENSOR SCHEDULE
	CONDUIT BELOW GRADE OR FLOOR WITH WITH (2)#12 AND (1)#12 AWG GROUND UNLESS NOTED OTHERWISE.		PANELBOARD	Ⓜ-MS-1	MOTION SENSOR, WALL MOUNTED. DESIGNATION INDICATES TYPE - REFER TO OCCUPANCY SENSOR SCHEDULE. MOUNT AT 46" AFF TO CENTER OF DEVICE
LIGHTING			PHOTOCELL	Ⓜ-6-20R	NEMA RECEPTACLE, DESIGNATION INDICATES NEMA TYPE.
NOTE: FIXTURE DESIGNATIONS INDICATE TYPE, REFER TO LIGHT FIXTURE SCHEDULE			JUNCTION BOX		
	WALL/CEILING MOUNTED EMERGENCY LIGHTING UNIT	FIRE ALARM			
	LIGHT FIXTURE		MOUNT VISIBLE NOTIFICATION DEVICES WITH LENS AT 80-96" AFF AND A MINIMUM OF 6" BELOW CEILING. MOUNT HORNS AT 88" TO TOP OF DEVICE.		
	CEILING MOUNTED SURFACE/RECESSED LIGHT		WALL MOUNTED VISIBLE NOTIFICATION DEVICE. NUMBER INDICATES CANDELA RATING, 15 CD IF NOT NOTED.		
	CEILING/WALL MOUNTED EXIT LIGHT. SHADING INDICATES FACES, ARROWS AS INDICATED		WALL MOUNTED COMBINATION VISIBLE/AUDIBLE NOTIFICATION DEVICE. NUMBER INDICATES CANDELA RATING, 15 CD IF NOT NOTED.		

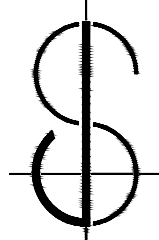


GENERAL NOTES:

1. AT LOCATIONS OF COMMUNICATIONS OUTLETS, UNLESS NOTED OTHERWISE, PROVIDE A 4"x4" BOX AT 18" AFF WITH (1) 3/4" CONDUIT WITH PULL STRING TO ABOVE THE CEILING.
2. CONNECT ALL FIRE ALARM DEVICES TO THE EXISTING BUILDING FIRE ALARM PANEL.
3. MAINTAIN THE ELECTRICAL CONNECTIONS TO THE EXISTING AHU AND CONDENSING UNIT.

PLAN NOTES:

- 1 EXISTING FIRE ALARM DEVICE.
- 2 NEW FIRE ALARM DEVICE, CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM.
- 3 MOUNT FLUSH IN CEILING, COORDINATE EXACT LOCATION WITH TENANT.

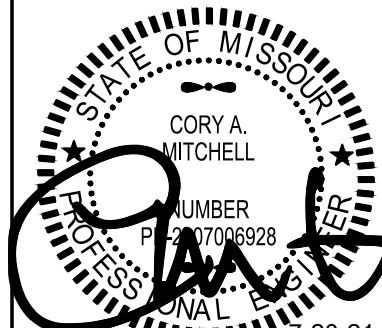


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Project Number 21.192.02

Revisions

interior improvements for  
**Stretchzone**  
940 NW Pryor Rd . Suite B  
Lee's Summit . Missouri

s h e e t

E1

ELECTRICAL  
PLANS

permit . bid  
20 July 2021



