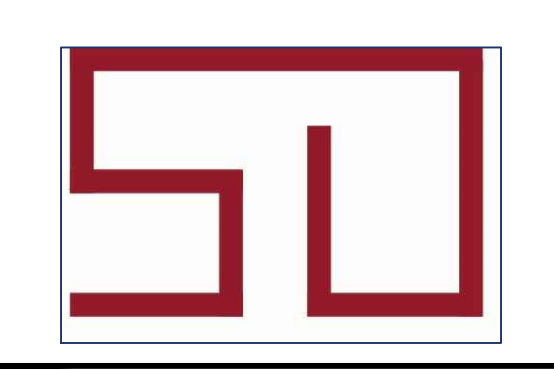


1 FLOOR PLAN
Scale: 1/4" = 1'-0"



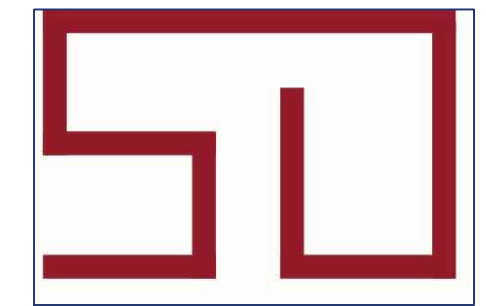
General Notes

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 AUSTIN, TX 78746
 512-423-0981
 INFO@SPACESDESIGNED.COM

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Project TEXAS OPTICAL	Sheet 1 - 1
Date 01/19/2024	
Scale 1/4" = 1'-0"	



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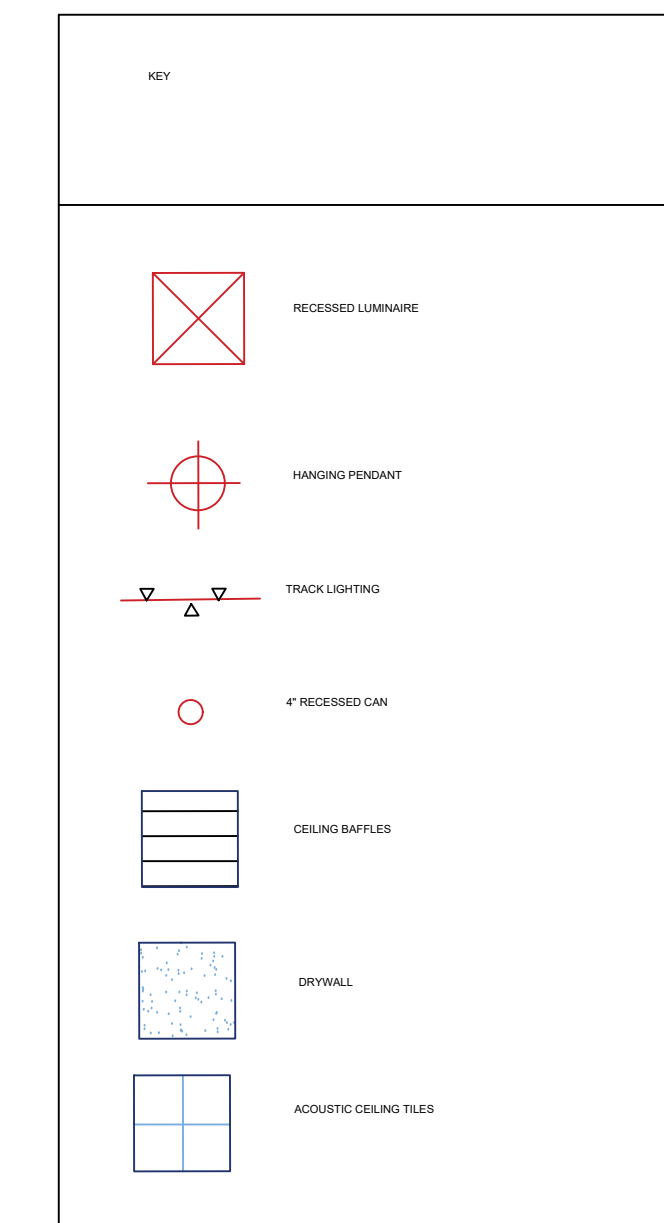
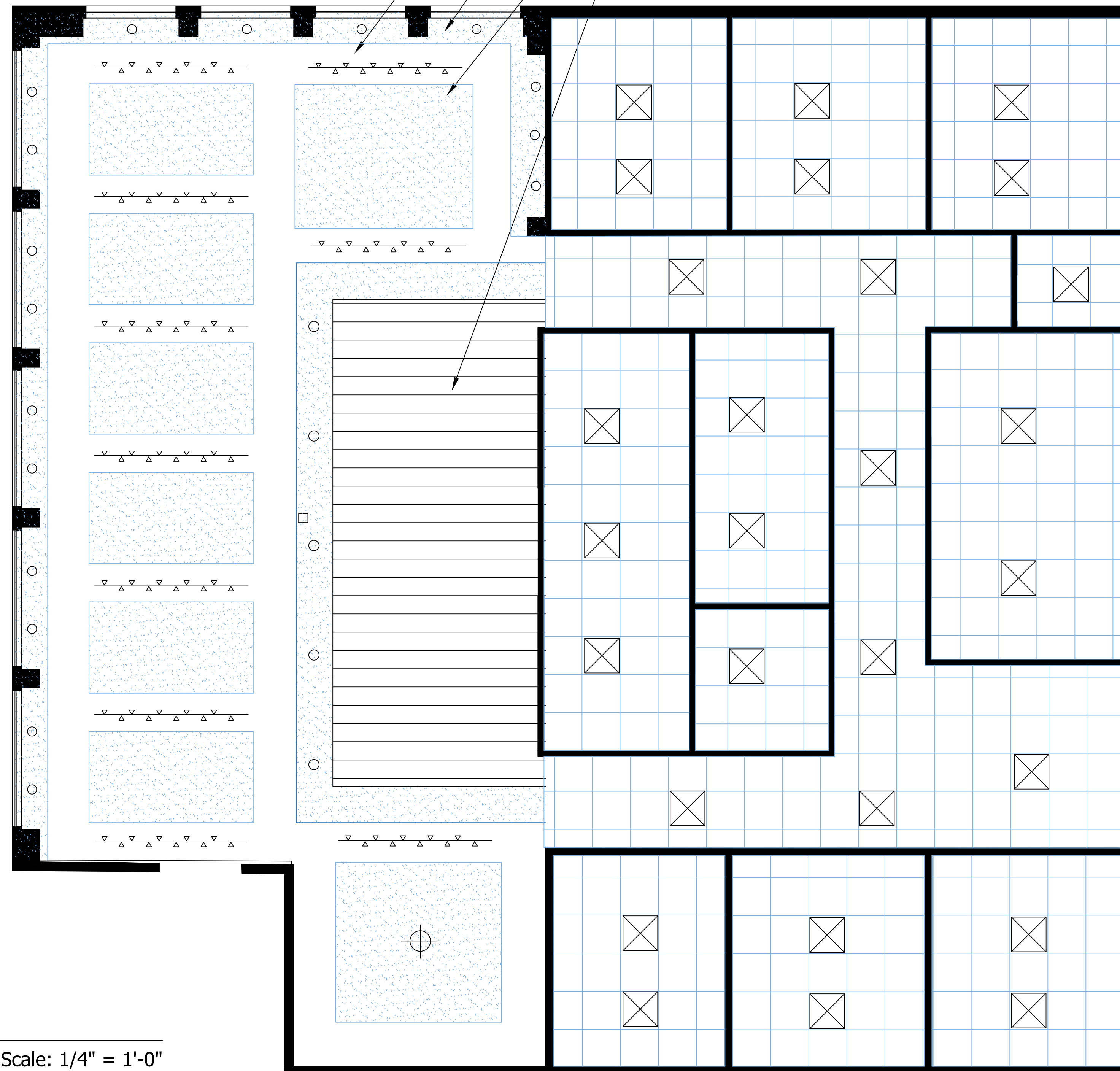
Project TEXAS OPTICAL	Sheet 1-2
Date 01/19/2024	
Scale 1/4" = 1'-0"	

TRACK LIGHTING - MOUNT BOTTOM OF LIGHTS AT 11'-9" AFF

DRYWALL SOFFITS - SEE ELEVATIONS FOR DETAILS

DRYWALL CLOUDS - MOUNTED AT 12' AFF

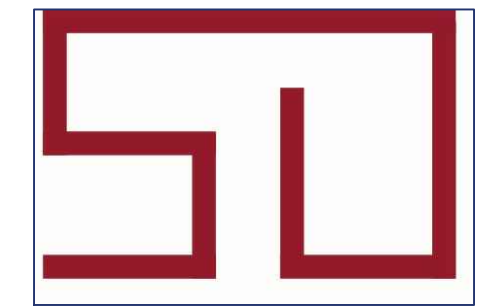
WOOD SLAT BAFFLES - MOUNTED AT 10' AFF



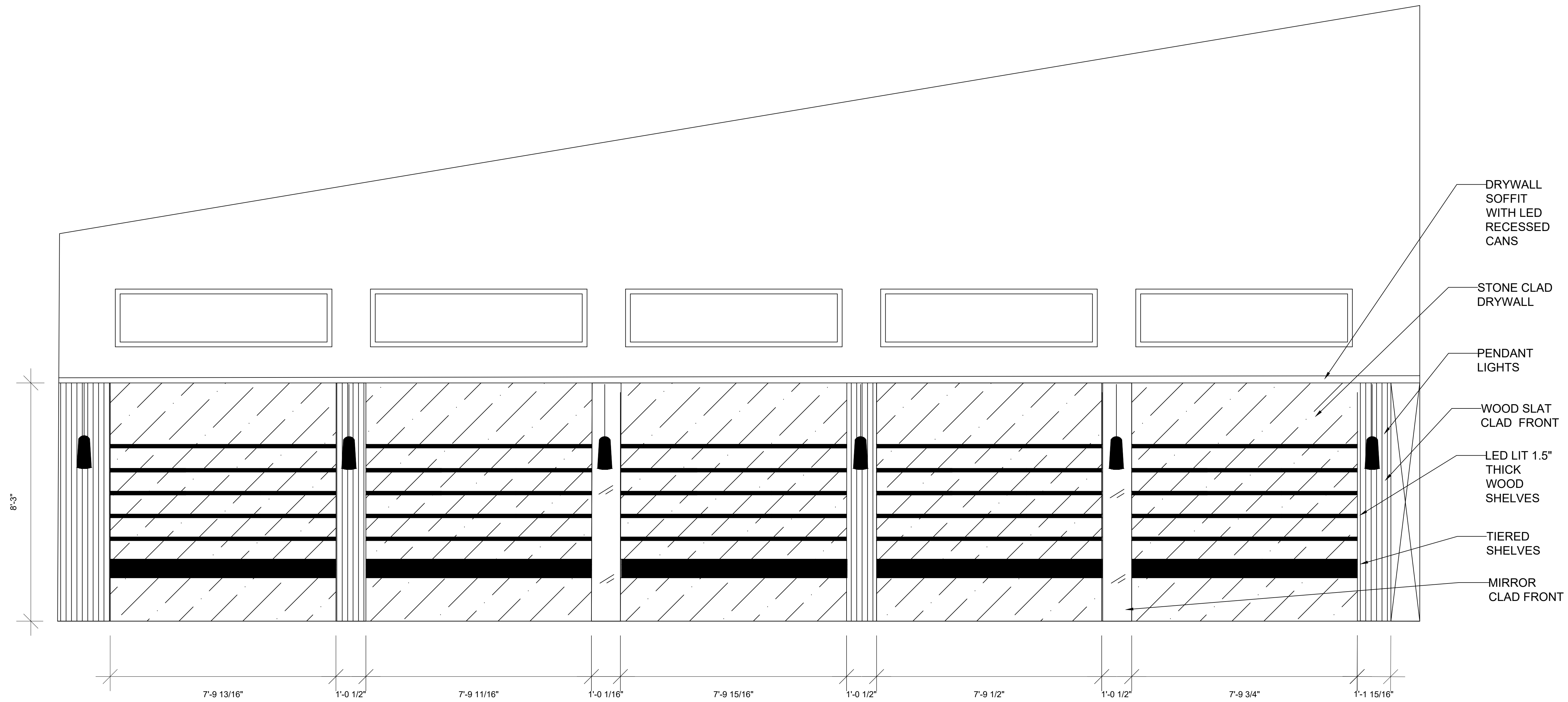
2

RCP

Scale: 1/4" = 1'-0"



General Notes



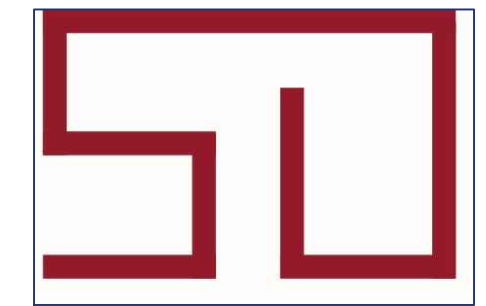
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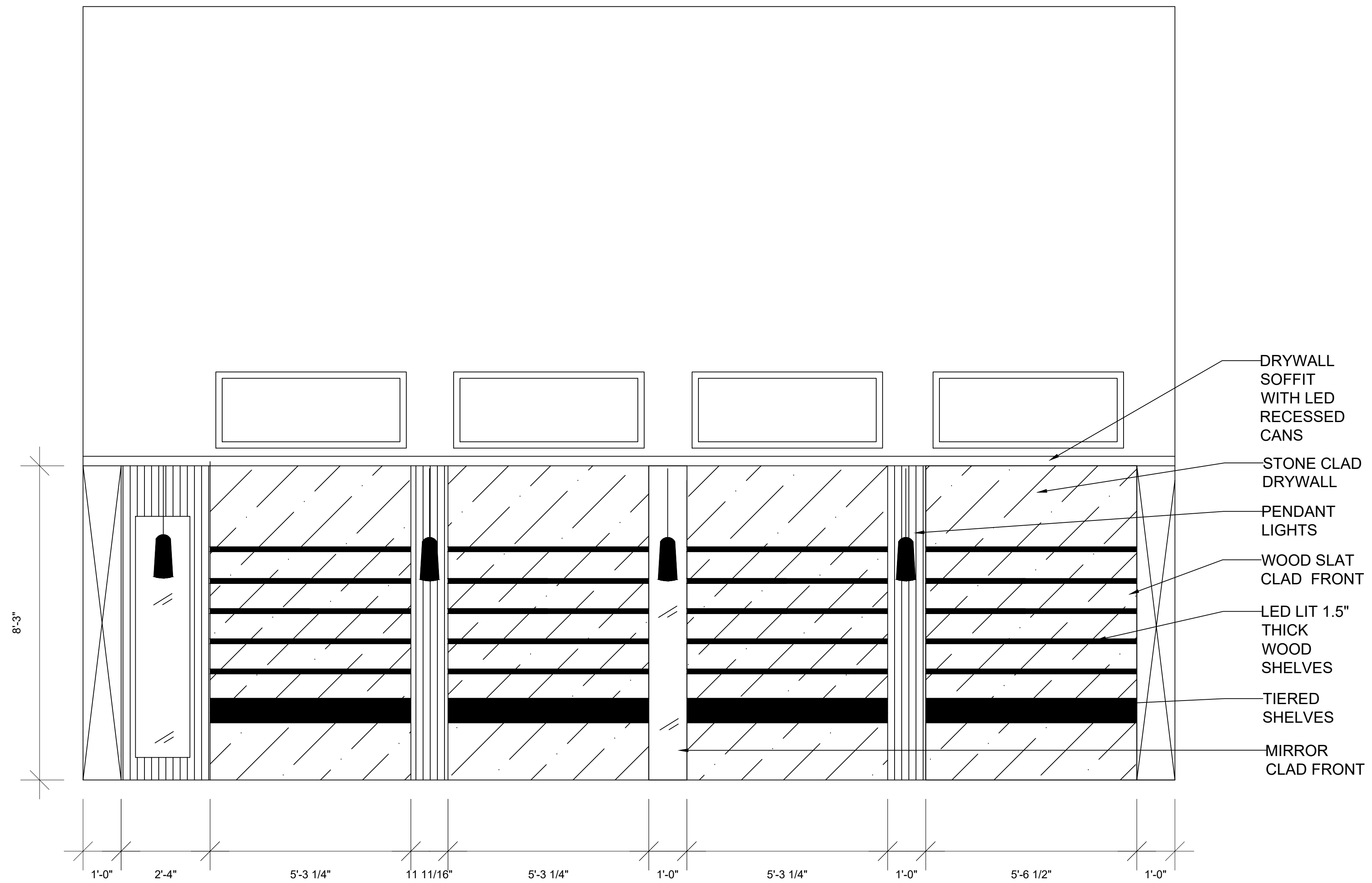
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3 DISPLAY CASE ELEVATION - EAST WALL
Scale: 1/2" = 1'-0"

Project	EXAS STATE OPTICAL	Sheet	1-3
Date	01/19/2024		
Scale	1/2" = 1'-0"		



General Notes



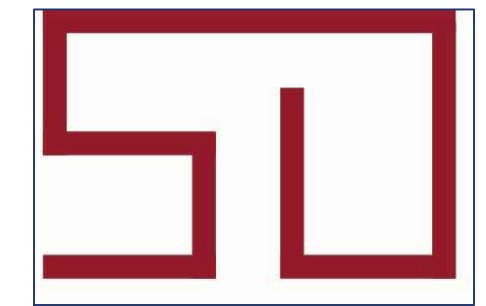
4 DISPLAY CASE ELEVATION - SOUTH WALL
Scale: 1/2" = 1'-0"

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Project	EXAS STATE OPTICAL	Sheet	- 4
Date	01/19/2024		
Scale	1/2" = 1'-0"		



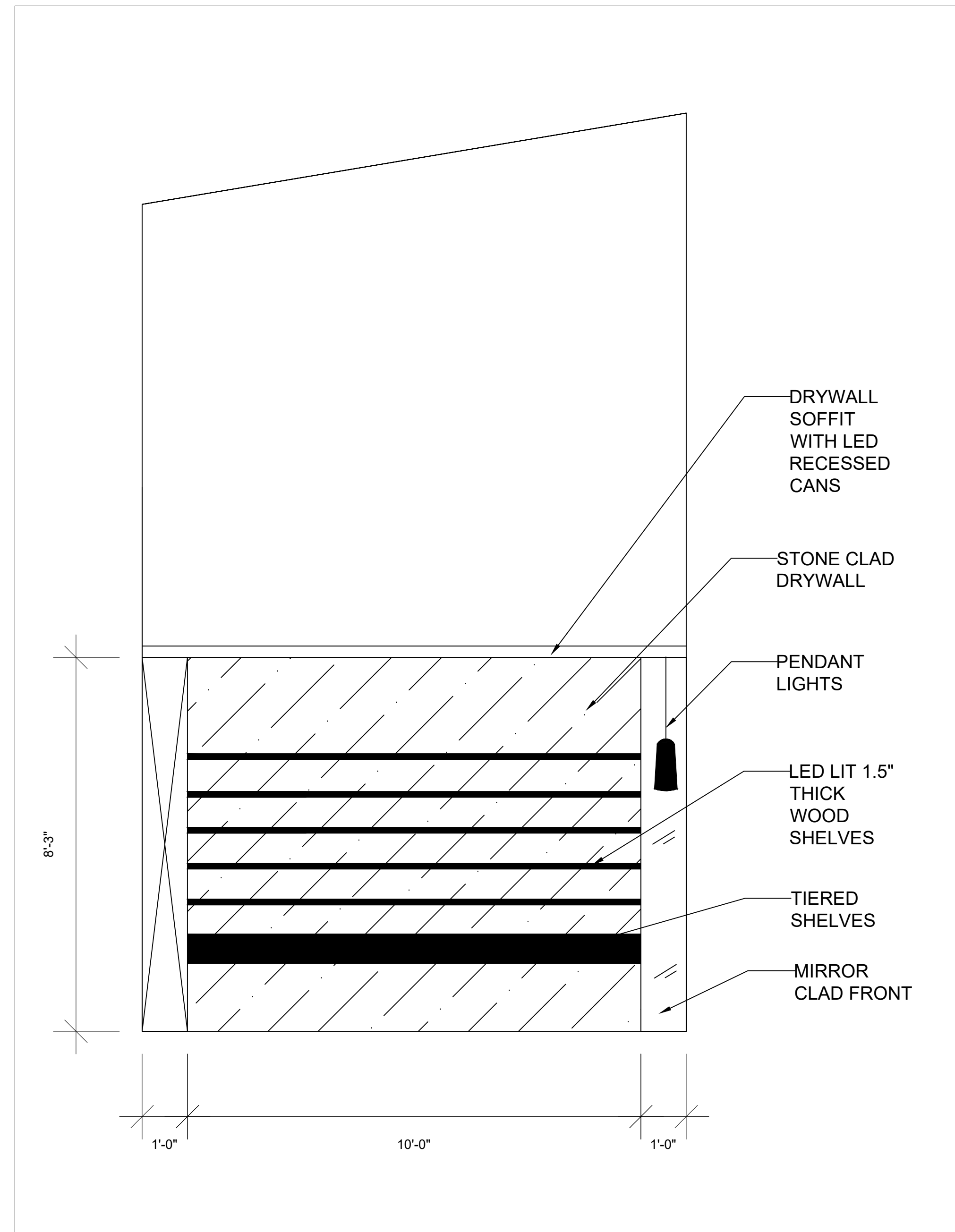
General Notes

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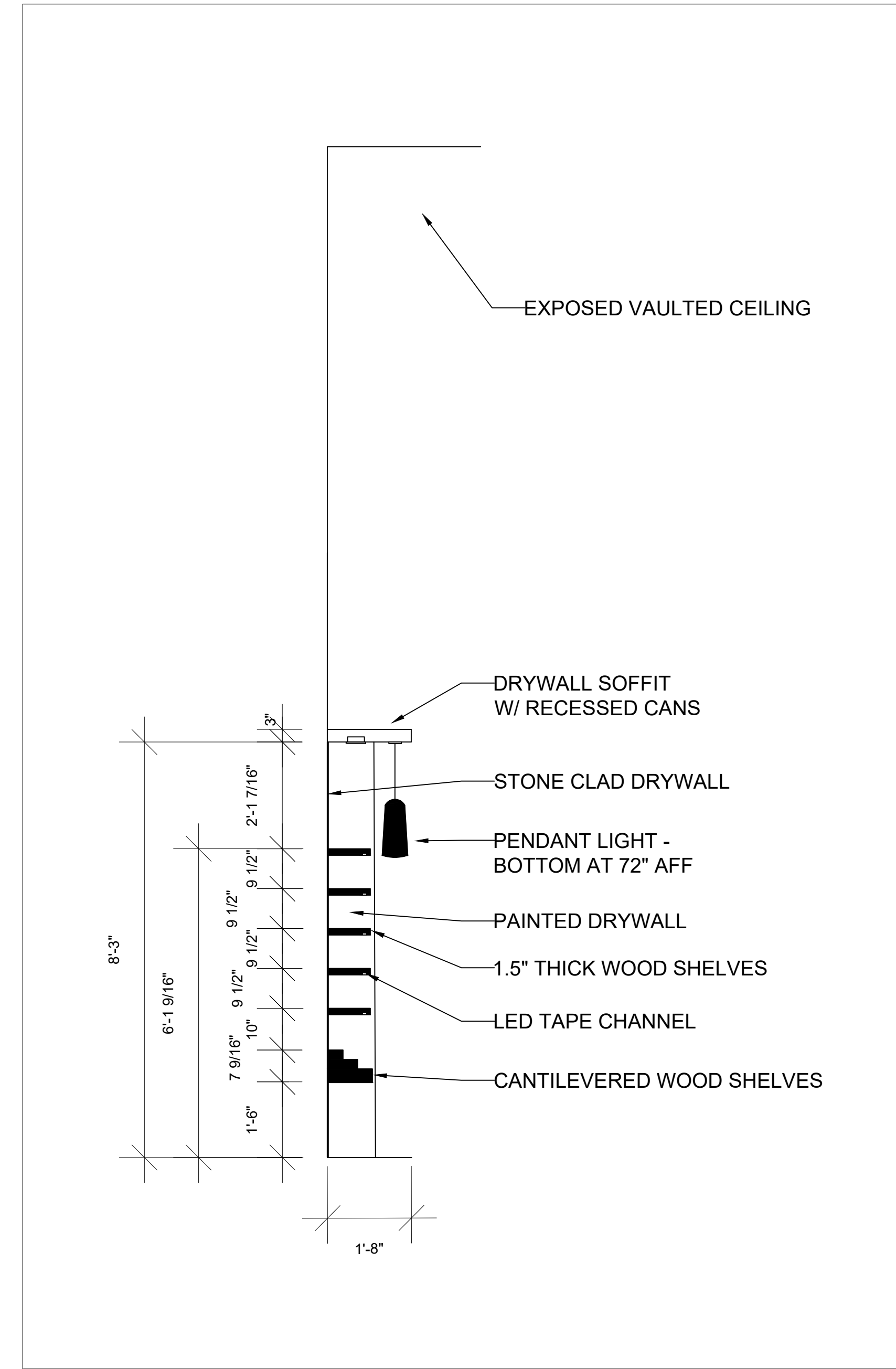
Firm Name and Address
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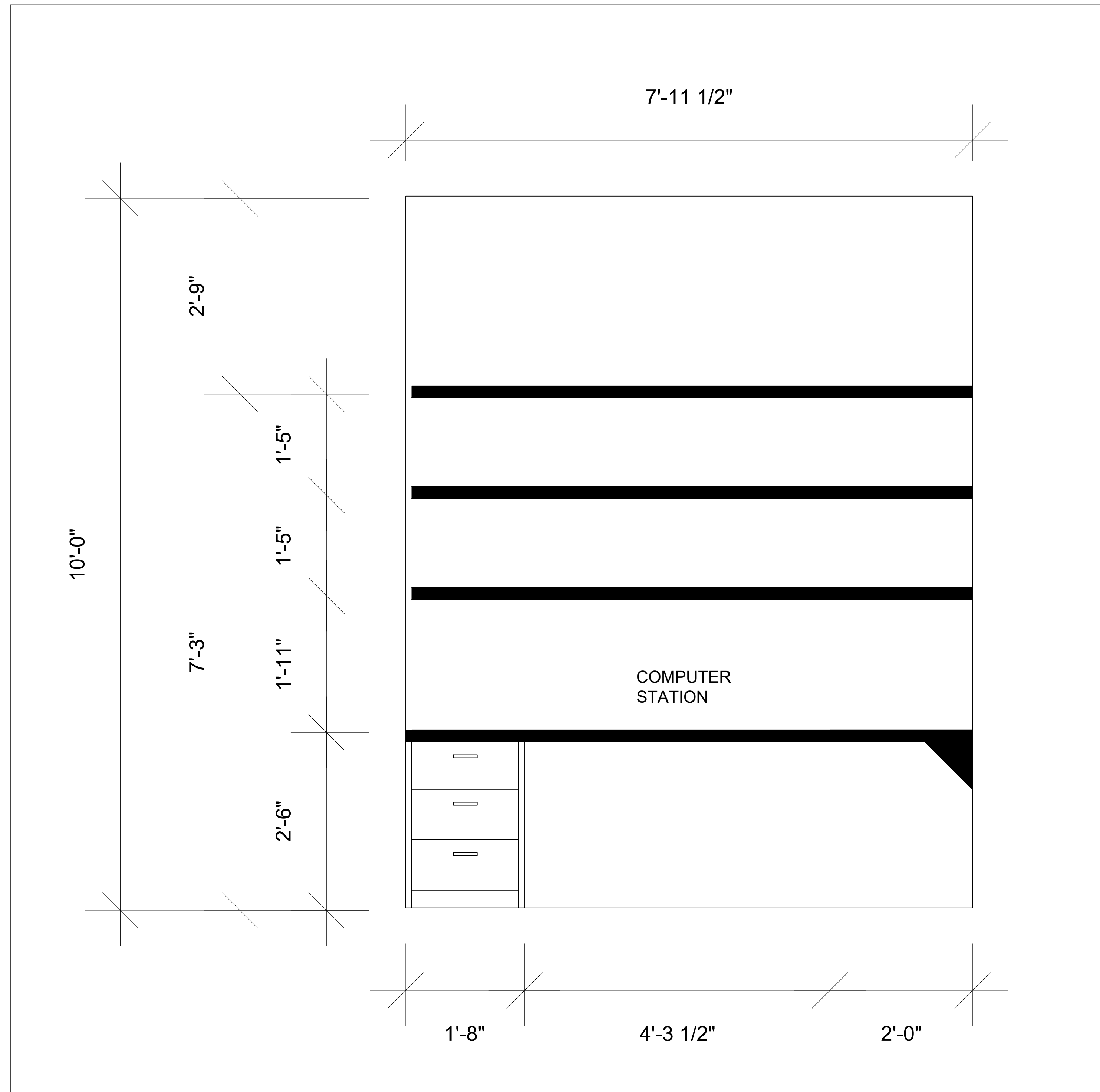
<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 1-5
<small>Date</small> 01/19/2024	
<small>Scale</small> 1/2" = 1'-0"	



5 DISPLAY CASE ELEVATION - WEST
 Scale: 1/2" = 1'-0"

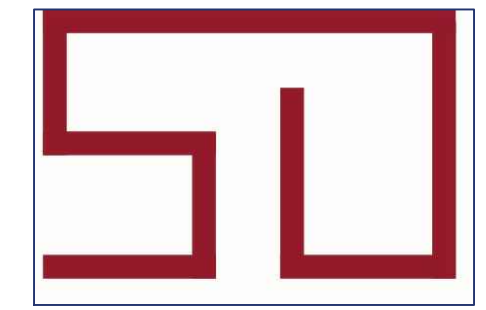


6 DISPLAY CASE SECTION
 Scale: 1/2" = 1'-0"



7 ADMIN ELEVATION - SOUTH

Scale: 1" = 1'-0"



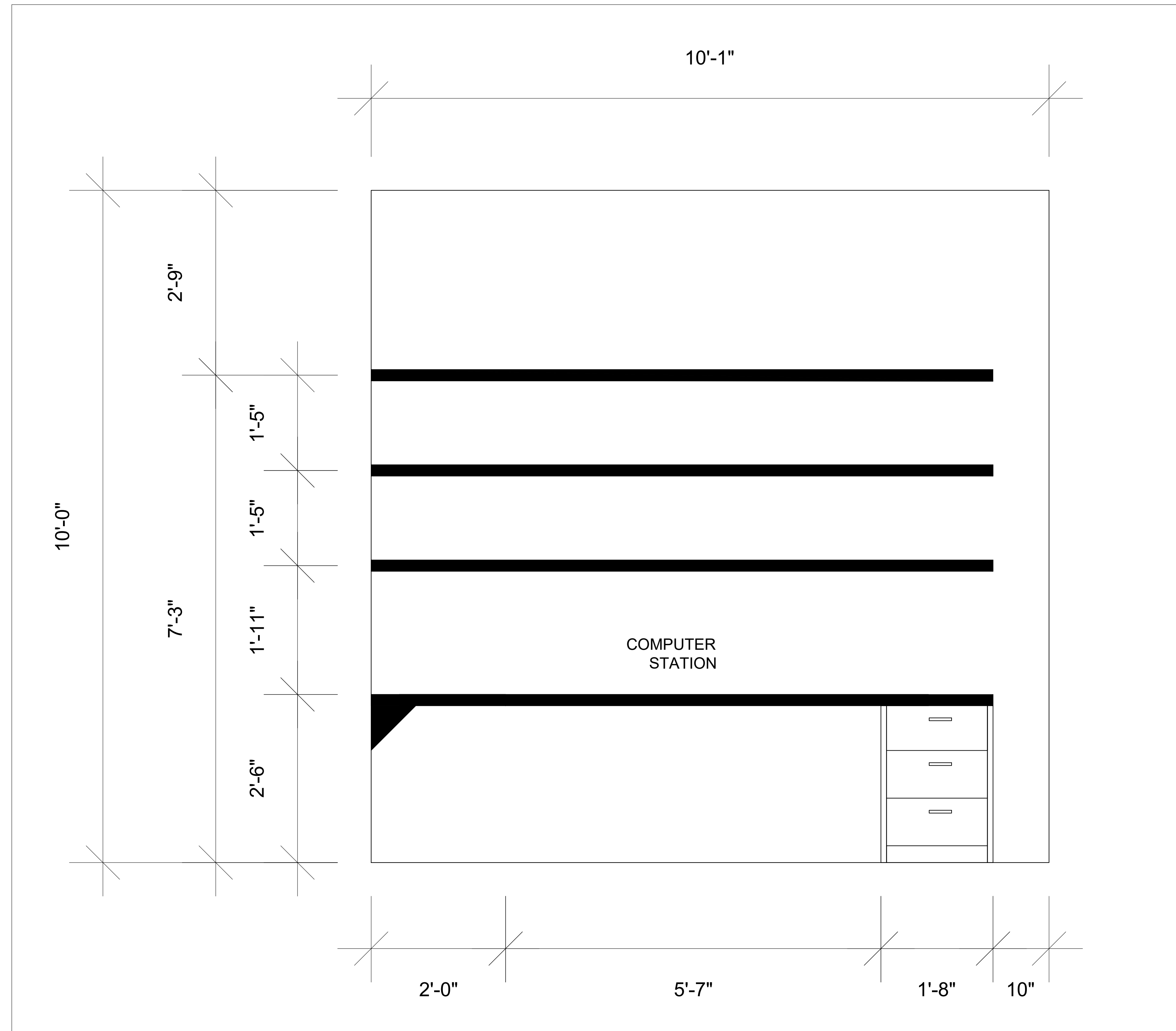
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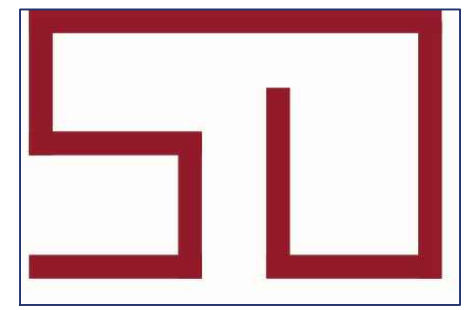
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<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 1 - 6
<small>Date</small> 01/19/2024	
<small>Scale</small> 1" = 1'-0"	



8 ADMIN ELEVATION - WEST

Scale: 1" = 1'-0"



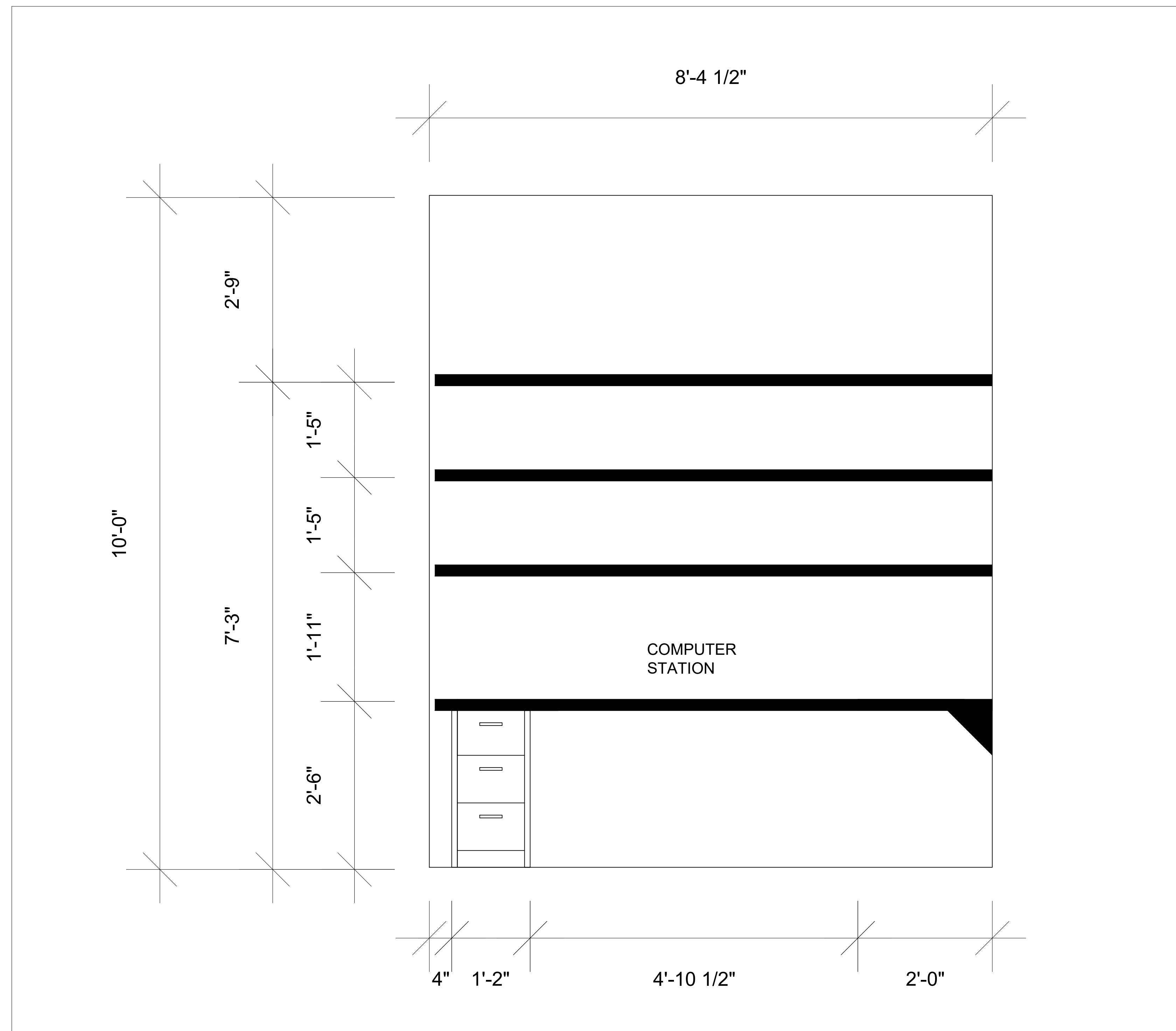
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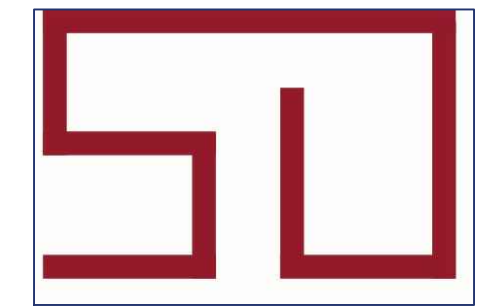
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Project EXAS STATE OPTICAL	Sheet 1-7
Date 01/19/2024	
Scale 1" = 1'-0"	



9 VISITING DOCTOR'S ELEVATION - NORTH
Scale: 1" = 1'-0"



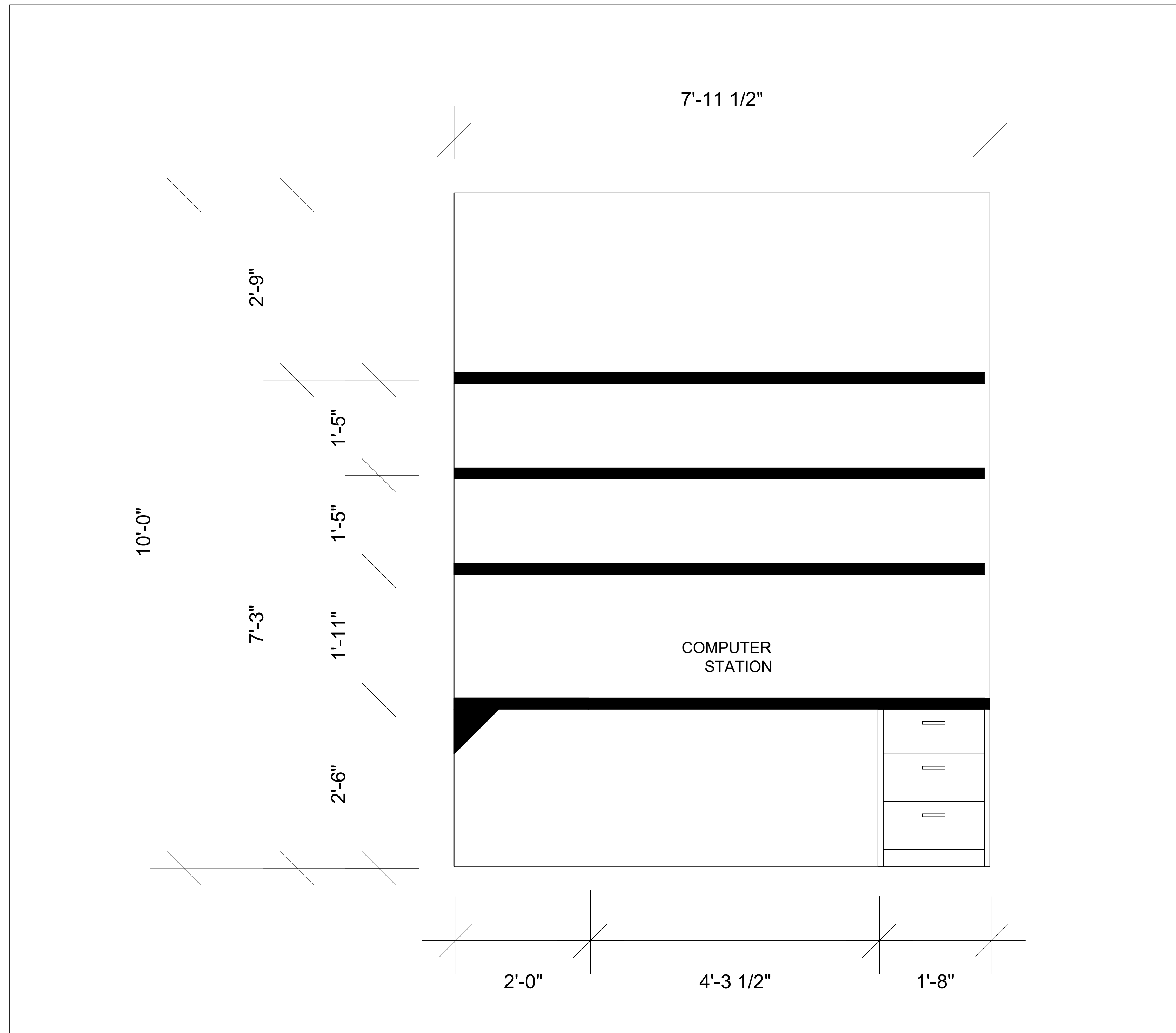
General Notes

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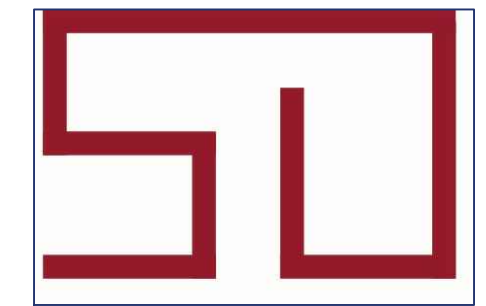
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<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 8
<small>Date</small> 01/19/2024	
<small>Scale</small> 1" = 1'-0"	



10 VISITING DOCTOR'S ELEVATION - WEST
 Scale: 1" = 1'-0"



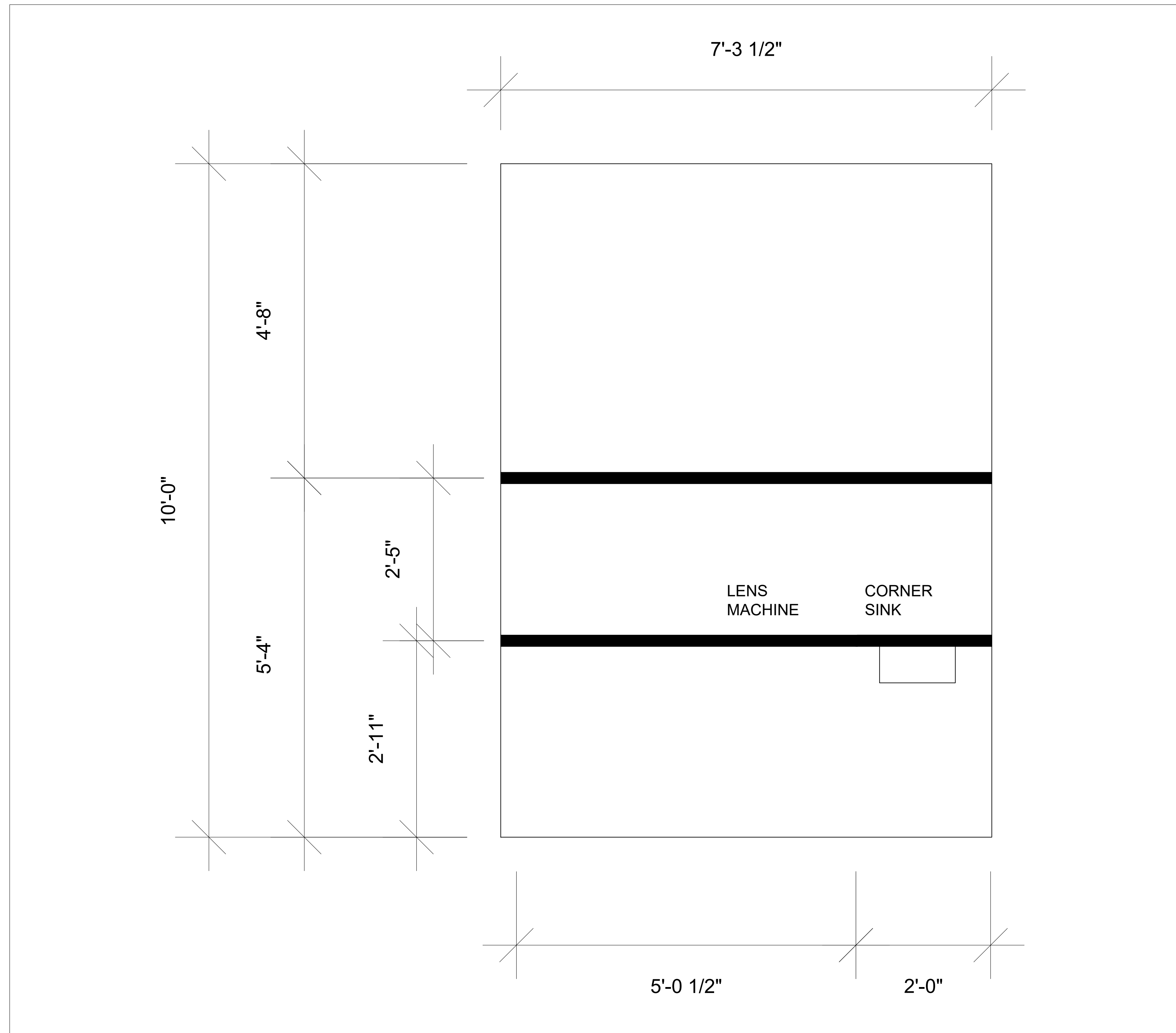
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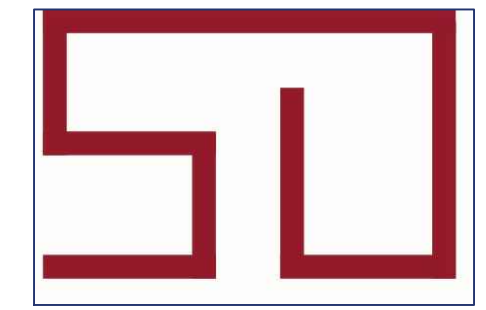
Project Name and Address
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<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 1 - 9
<small>Date</small> 01/19/2024	
<small>Scale</small> 1" = 1'-0"	



11 LAB ELEVATION - SOUTH

Scale: 1" = 1'-0"



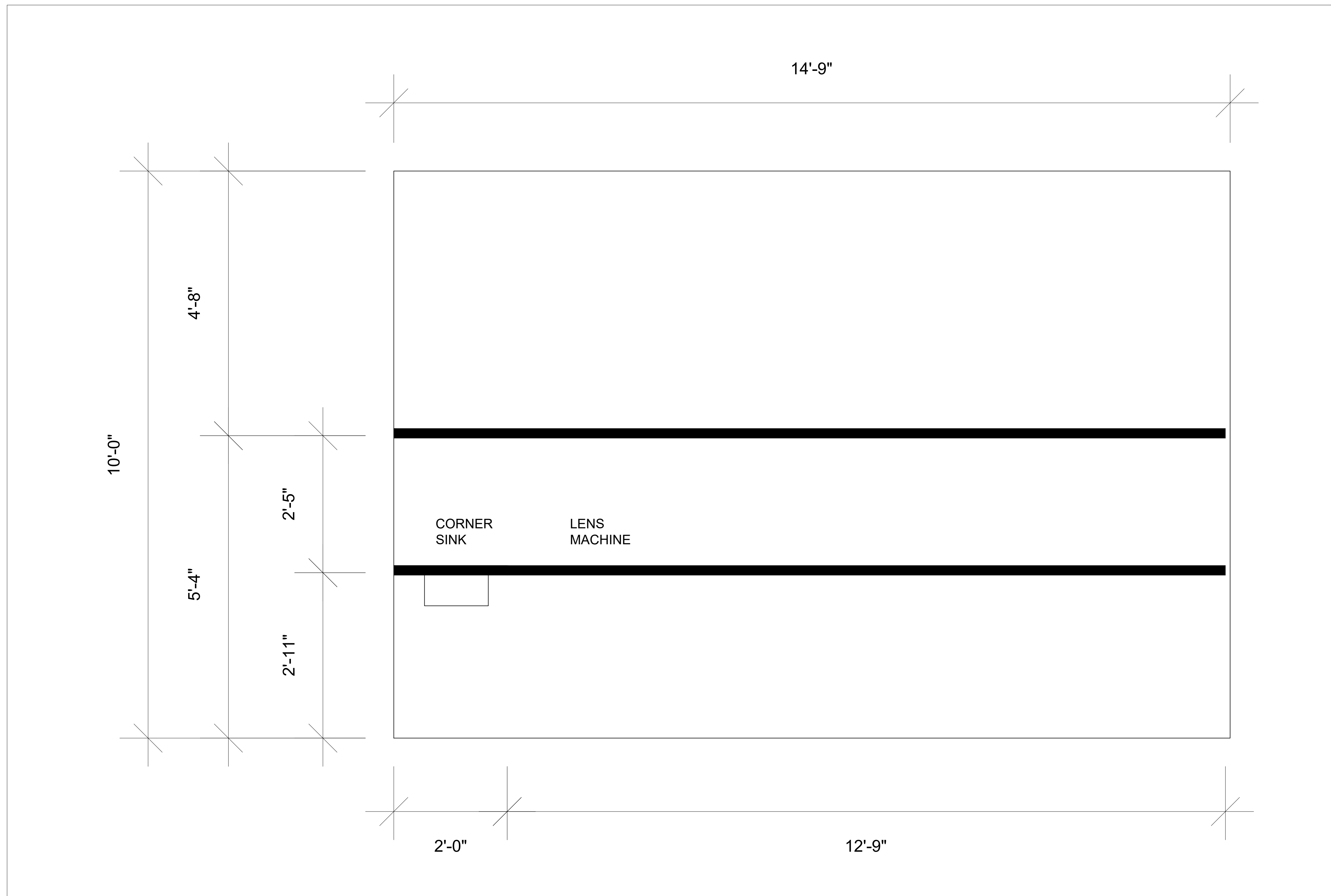
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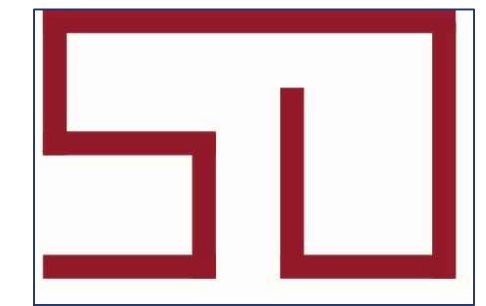
Project Name and Address
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<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 110
<small>Date</small> 01/19/2024	
<small>Scale</small> 1" = 1'-0"	



12 LAB ELEVATION - WEST

Scale: 1" = 1'-0"



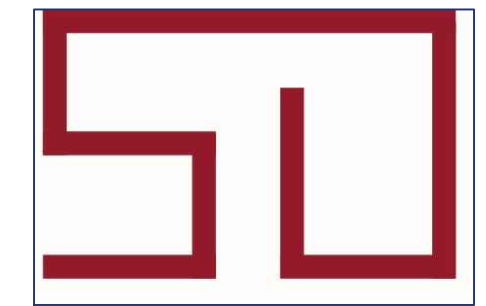
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Project EXAS STATE OPTICAL	Sheet 111
Date 01/19/2024	
Scale 1" = 1'-0"	



General Notes

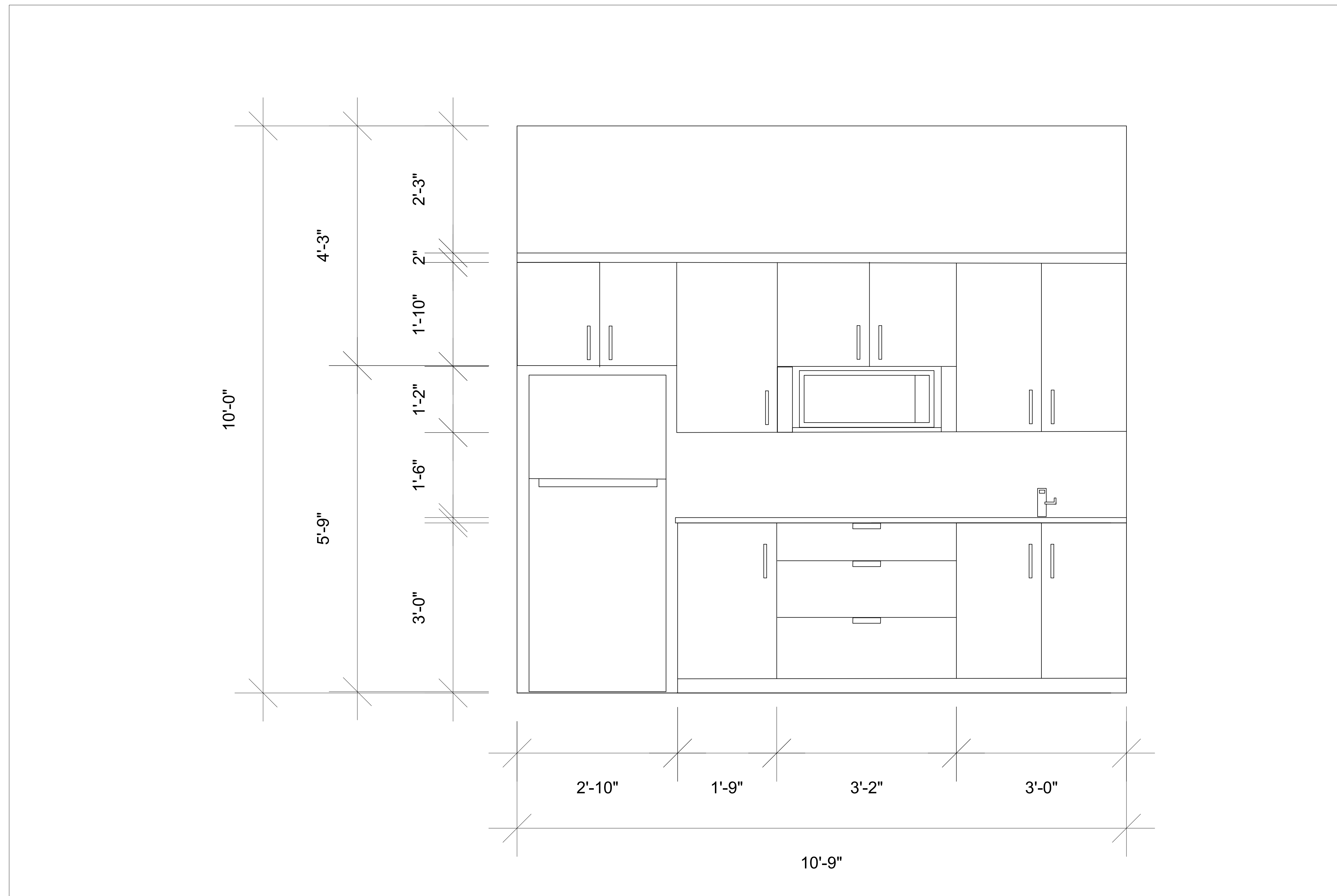
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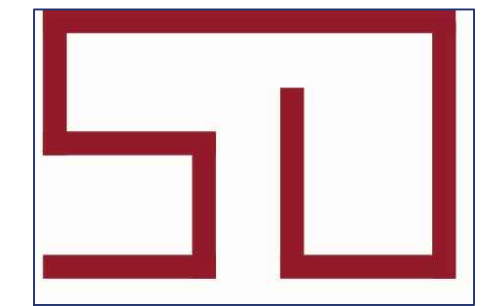
<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 112
<small>Date</small> 01/19/2024	
<small>Scale</small> 1" = 1'-0"	



13

BREAK RM ELEVATION - SOUTH

Scale: 1" = 1'-0"



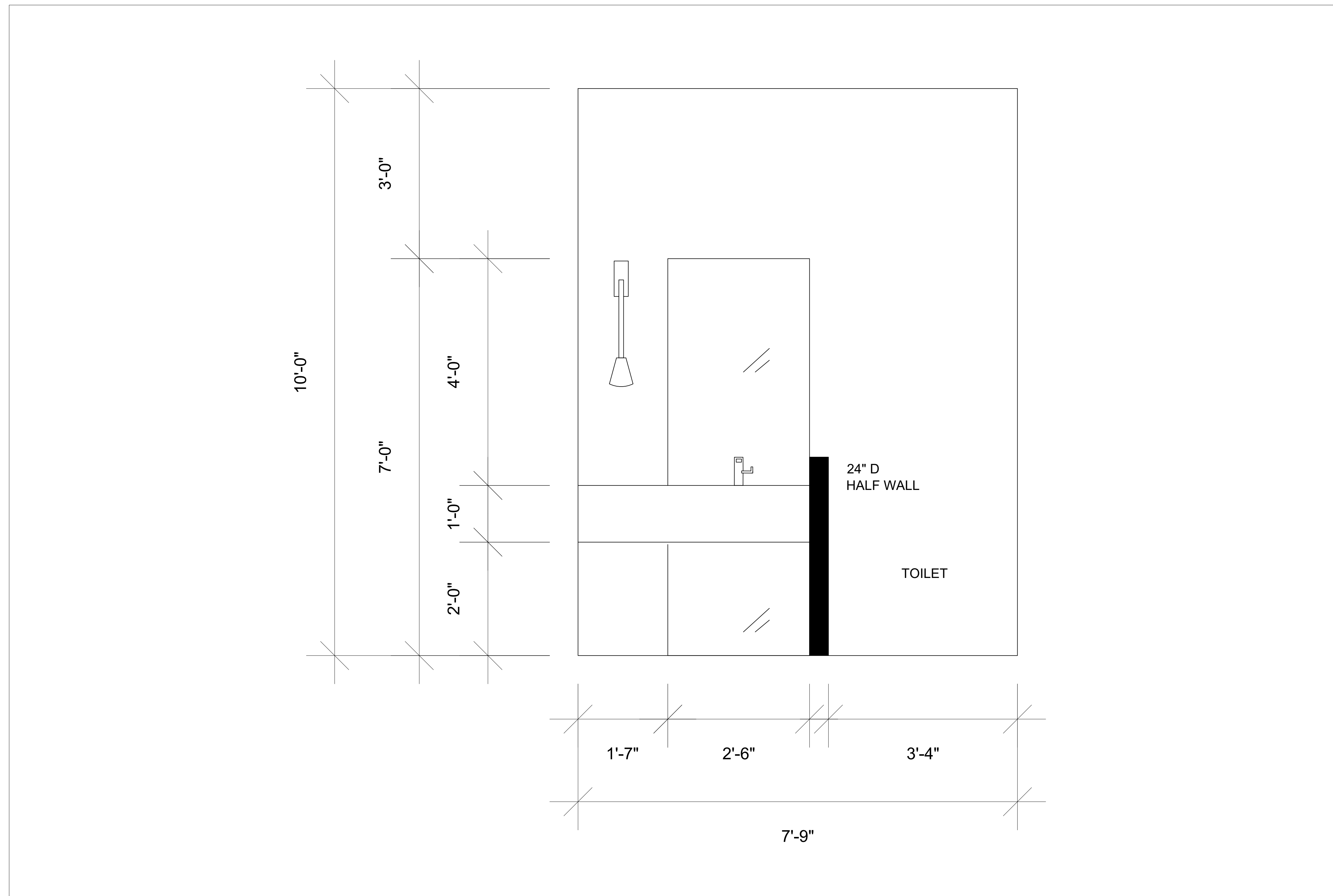
General Notes

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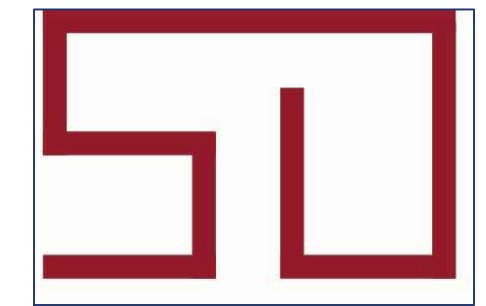
Project Name and Address
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Project EXAS STATE OPTICAL	Sheet 113
Date 01/19/2024	
Scale 1" = 1'-0"	



14 RESTROOM ELEVATION - EAST

Scale: 1" = 1'-0"



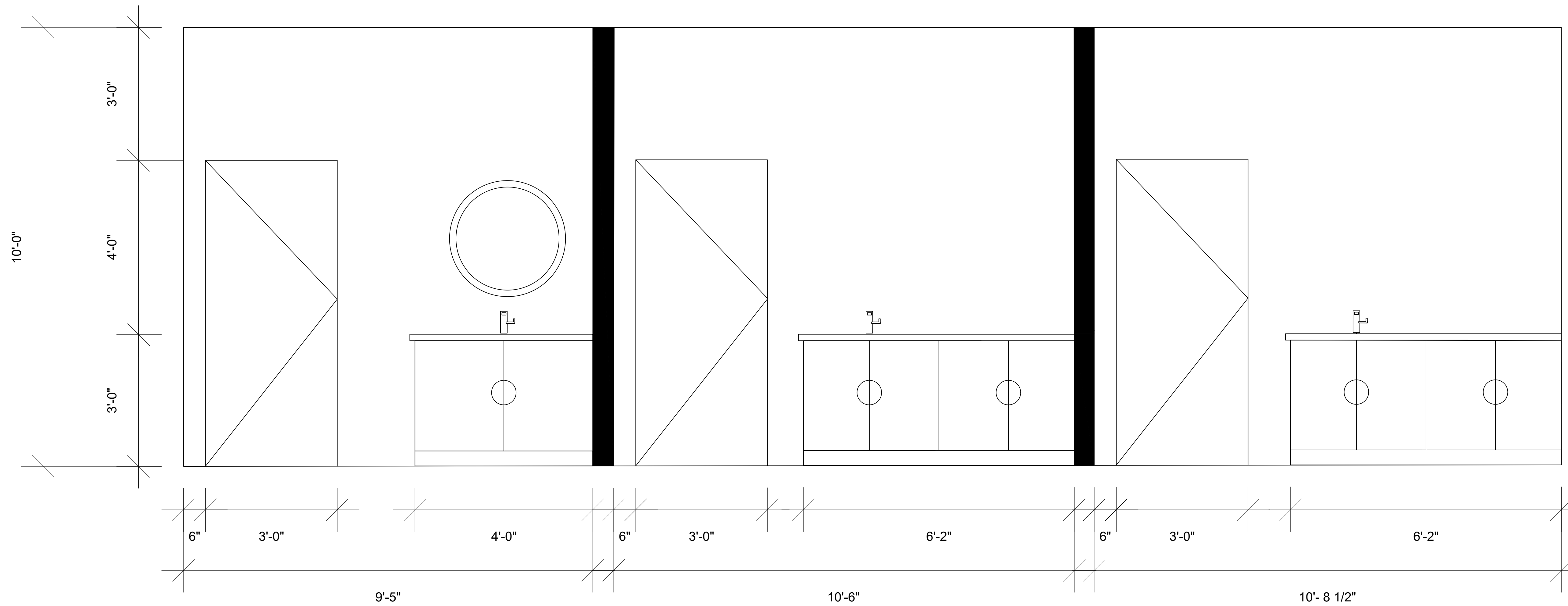
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<small>Project</small> EXAS STATE OPTICAL	<small>Sheet</small> 114
<small>Date</small> 01/19/2024	
<small>Scale</small> 3/4" = 1'-0"	



15

EXAM/ PREP RM SECTION - NORTH WALL

Scale: 3/4" = 1'-0"

GENERAL MECHANICAL NOTES

- COMPLETED INSTALLATION SHALL MEET REQUIREMENTS OF 2021 EDITION OF UNIFORM MECHANICAL CODE AND ALL LOCAL CODES.
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON DRAWINGS WITH ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS AND REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY.
- EQUIPMENT SHOWN ON THE FLOOR PLANS AND ELEVATIONS ILLUSTRATES THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR SERVICE PRIORITY.
- CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO FACILITATE NEW CONSTRUCTION AND INCLUDE ALL SUCH WORK IN HIS BID. NO ADDITIONAL FUNDS WILL BE AUTHORIZED FOR ANY EXTRA WORK OR MATERIAL NECESSARY DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OR FOR LACK OF COORDINATION BETWEEN TRADES.
- CONTRACTOR TO INSTALL ALL MECHANICAL EQUIPMENT WITH ADEQUATE CLEARANCE ON ALL SIDES FOR SERVICE AND MAINTENANCE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- ALL DUCT DIMENSIONS SHOWN ARE INSIDE FREE AREA DIMENSIONS.
- ALL DUCTWORK SHALL BE INSTALLED CONCEALED AS HIGH AS POSSIBLE UNLESS OTHERWISE SHOWN.
- PROVIDE DUCTWORK TRANSITIONS AT ALL EQUIPMENT AS REQUIRED.
- SUPPORT ALL DUCTWORK PER SPECIFICATIONS.
- MAXIMUM FLEX DUCT LENGTH 5'-0" UNLESS OTHERWISE NOTED.
- INSULATE EXTERIOR OF ALL SUPPLY AIR DIFFUSERS.
- AIR DEVICES ARE SHOWN IN APPROXIMATE LOCATION ONLY. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING PLAN AND ARCHITECTS REFLECTED CEILING PLAN.
- ALL DUCT SIZES TO AIR DEVICES SHALL BE SAME AS NECK SIZE OF DEVICE UNLESS NOTED OTHERWISE.
- ALL DUCT SIZES TO VAV BOXES DEVICES SHALL BE SAME AS INLET SIZE OF TERMINAL BOX UNLESS NOTED OTHERWISE. REFER TO TERMINAL BOX SCHEDULE FOR INLET SIZES.
- PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL EQUIPMENT CONNECTION POINTS.
- PROVIDE TURNING VANES FOR ALL MITERED (NON-RADIUS) ELBOWS. TURNING VANES SHALL BE DOUBLE WALL AIR FOIL TYPE. NOT ALL VANES SHOWN FOR DRAWING READABILITY.
- PROVIDE YOUNG REGULATORS FOR ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS.
- PROVIDE INSULATED CONDENSATE DRAIN LINES TO ALL AIR HANDLING UNITS AND FAN COILS. SLOPE AWAY FROM UNIT AT A MINIMUM OF 1/8" PER FOOT.
- PROVIDE ACCESS DOORS IN DUCTWORK AT FIRE DAMPERS AND FIRE/SMOKE DAMPERS. CLEARLY IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS.
- COORDINATE ROOF PENETRATIONS, FLOOR PENETRATIONS, AND CHASE DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DISCIPLINES.
- MAINTAIN ALL NEC REQUIRED AND NECESSARY MAINTENANCE CLEARANCES.
- SEAL ALL DUCTWORK PENETRATIONS THROUGH WALLS TO STRUCTURE LEAK TIGHT. PROVIDE DUCTWORK SLEEVES AT ALL WALL PENETRATIONS.
- PROVIDE MANUAL VOLUME DAMPERS IN DUCTWORK AT ALL BRANCH DUCTS TO AIR DEVICES INCLUDING EXHAUST AIR GRILLES.
- PROVIDE FIRE DAMPERS IN WALL TO MATCH WALL RATING FOR ALL DUCT PENETRATIONS THRU RATED WALLS UNLESS NOTED OTHERWISE. PROVIDE FIRE SEALANT AROUND ALL WALL PENETRATIONS AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED WALLS.
- PROVIDE CEILING RADIATION DAMPERS WITH ANY DIFFUSERS INSTALLED IN FIRE-RATED CEILINGS.
- ALL MECHANICAL EQUIPMENT LOCATED ABOVE A HARD CEILING SHALL BE PROVIDED WITH AN ACCESS PANEL. ACCESS PANEL SHALL, AT MINIMUM, BE THE FULL SIZE OF THE EQUIPMENT IN ADDITION TO PROVIDING ALL MANUFACTURER REQUIRED CLEARANCES. COORDINATE WITH ARCHITECT FOR EXACT SIZE AND TYPE OF ACCESS PANEL. WHERE CONDENSATE PRODUCING EQUIPMENT IS LOCATED ABOVE A HARD CEILING, PROVIDE AN ADDITIONAL METHOD OF CONDENSATE CONTROL IN ACCORDANCE WITH UMC 310.2.
- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA GUIDELINES.

MECHANICAL DUCTWORK SYMBOLS

DUCT SIZE (WIDTH / DEPTH)	
SHORT RADIUS ELBOW RADIUS = 1.0 x WIDTH	
LONG RADIUS ELBOW RADIUS = 1.5 x WIDTH	
RECTANGULAR ELBOW	
ROUND DUCT DOWN	
ROUND DUCT UP	
SUPPLY DUCT - RECTANGULAR UP	
SUPPLY DUCT - RECTANGULAR DOWN	
RETURN DUCT - RECTANGULAR UP	
RETURN DUCT - RECTANGULAR DOWN	
EXHAUST DUCT - RECTANGULAR UP	
EXHAUST DUCT - RECTANGULAR DOWN	
FLEXIBLE DUCT TO DIFFUSER CONNECTION	
CONCENTRIC REDUCER, DUCT TRANSITION (ROUND TO ROUND / SQUARE TO SQUARE)	
ECCENTRIC REDUCER, DUCT TRANSITION (ROUND TO ROUND / SQUARE TO SQUARE)	
DUCT TRANSITION (SQUARE TO ROUND)	
DUCT CAP	
SIDEWALL REGISTER TAP	
BRANCH DUCT TAP (w/ SMACNA 45° FITTING)	
SPIN-IN DUCT TAP	
CONICAL DUCT TAP	
CONNECT TO EXISTING	

MECHANICAL PIPING SYMBOLS

ISOLATION VALVE	
HOT WATER SUPPLY LINE	
HOT WATER RETURN LINE	
CHILLED WATER SUPPLY LINE	
CHILLED WATER RETURN LINE	
CONDENSER WATER SUPPLY LINE	
CONDENSER WATER RETURN LINE	
CONDENSATE DRAIN LINE WITH FLOW DIRECTION	
FLOW DIRECTION	
90° ELBOW UP	
90° ELBOW DOWN	
TEE DROPPING DOWN	
TEE RISING UP	

GRILLES & DIFFUSERS

SUPPLY DIFFUSER	
RETURN GRILLE	
EXHAUST GRILLE	
SLOT DIFFUSER	

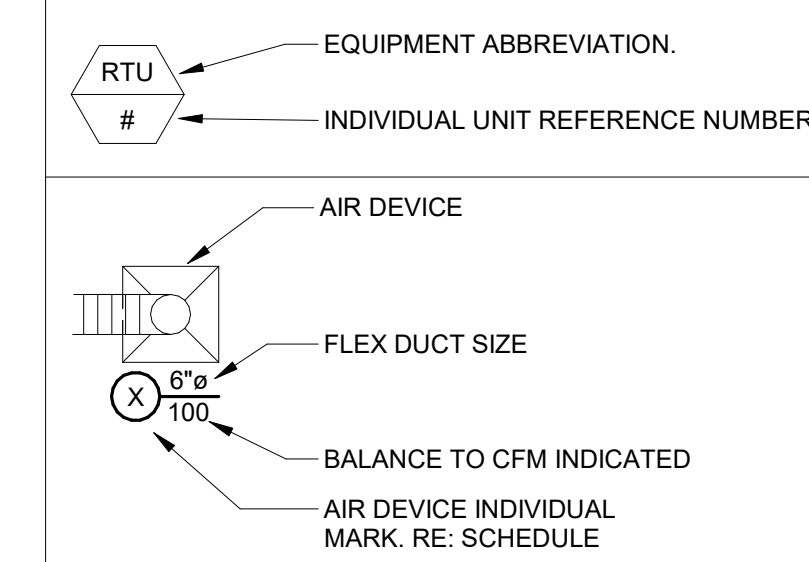
DAMPERS

MANUAL DAMPER	VD
FIRE SMOKE DAMPER	FSD
FIRE DAMPER	FD
SMOKE DAMPER	SD
OPPOSED BLADE DAMPER	OBD
BACK DRAFT DAMPER	BDD
MOTORIZED VOLUME DAMPER	M

CONTROLS

THERMOSTAT, 48" AFF	
HUMIDISTAT, 48" AFF	
OCCUPANCY SENSOR	
CARBON MONOXIDE SENSOR	
CARBON DIOXIDE SENSOR	
REMOTE TEMPERATURE SENSOR	
DUCT SMOKE DETECTOR	

EQUIPMENT LEGEND



90% CD PROGRESS

12/5/2023

FIRM NO: F-15085

512.669.5560

WGI
WGInc.com

4700 MUELLER BOULEVARD, SUITE 300, AUSTIN, TEXAS, 78723

REVISION

DATE

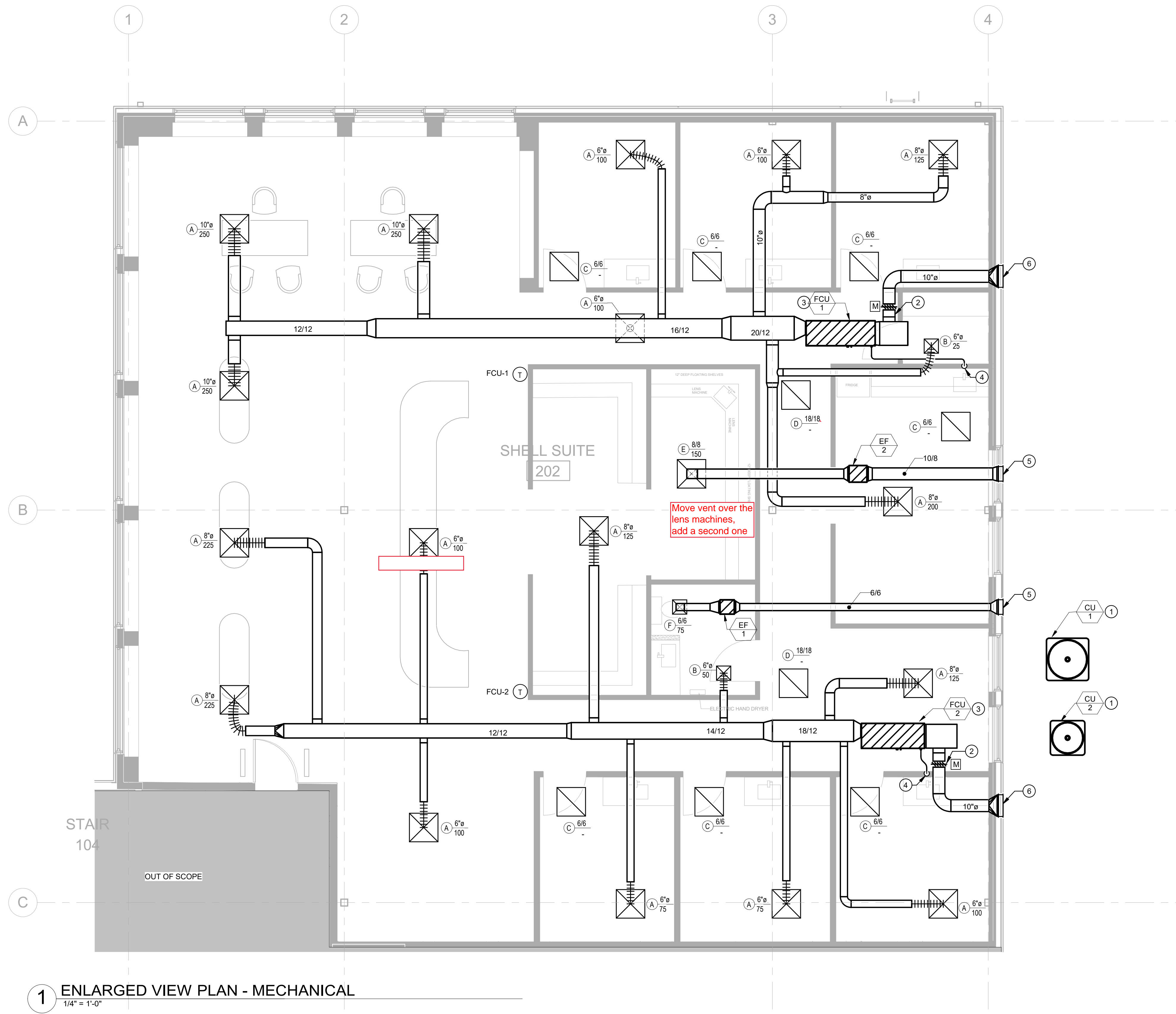
NO.

Preliminary
12/05/2023 5:52:12 PM
NOT FOR CONSTRUCTION

6707 RIVERSIDE DRIVE, AUSTIN, TX 7874

MECHANICAL SYMBOLS & LEGENDS

SHEET
M0.01



1 ENLARGED VIEW PLAN - MECHANICAL
1/4" = 1'-0"

KEYNOTES - M3.01

- 1. CONDENSING UNIT LOCATED ON GROUND. COORDINATE EXACT LOCATION WITH OWNER/LANDLORD. CONTRACTOR TO CONFIRM THAT INSTALLED REFRIGERANT PIPE LENGTH DOES NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM LENGTH.
- 2. 10" OUTSIDE AIR DUCT CONNECTED TO RETURN PLENUM. PROVIDE MOTORIZED DAMPER, INTERLOCK WITH OPERATION OF FAN COIL UNIT.
- 3. FAN COIL UNIT MOUNTED ABOVE CEILING, TIGHT TO STRUCTURE. COVER OPEN ENDED RETURN WITH GALVANIZED HARDWARE CLOTH.
- 4. 3/4" INSULATED CONDENSATE DRAIN DOWN IN WALL. TIE IN TO LAVATORY TAILPIECE.
- 5. 12"x12" (MIN. 0.2 SQ. FT. FREE AREA) AIR INTAKE LOUVER WITH INSECT SCREEN. PROVIDE RUSKIN ELF375DX OR EQUAL. PROVIDE SHEET METAL PLENUM, FULL SIZE OF LOUVER CONNECTION.
- 6. 18"x12" (MIN. 0.5 SQ. FT. FREE AREA) AIR INTAKE LOUVER WITH INSECT SCREEN. PROVIDE RUSKIN ELF375DX OR EQUAL. PROVIDE SHEET METAL PLENUM, FULL SIZE OF LOUVER CONNECTION.

512.668.5560	12/5/2023	90% CD PROGRESS	NO.	DATE	REVISION	BY
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FIRM NO. F-15085



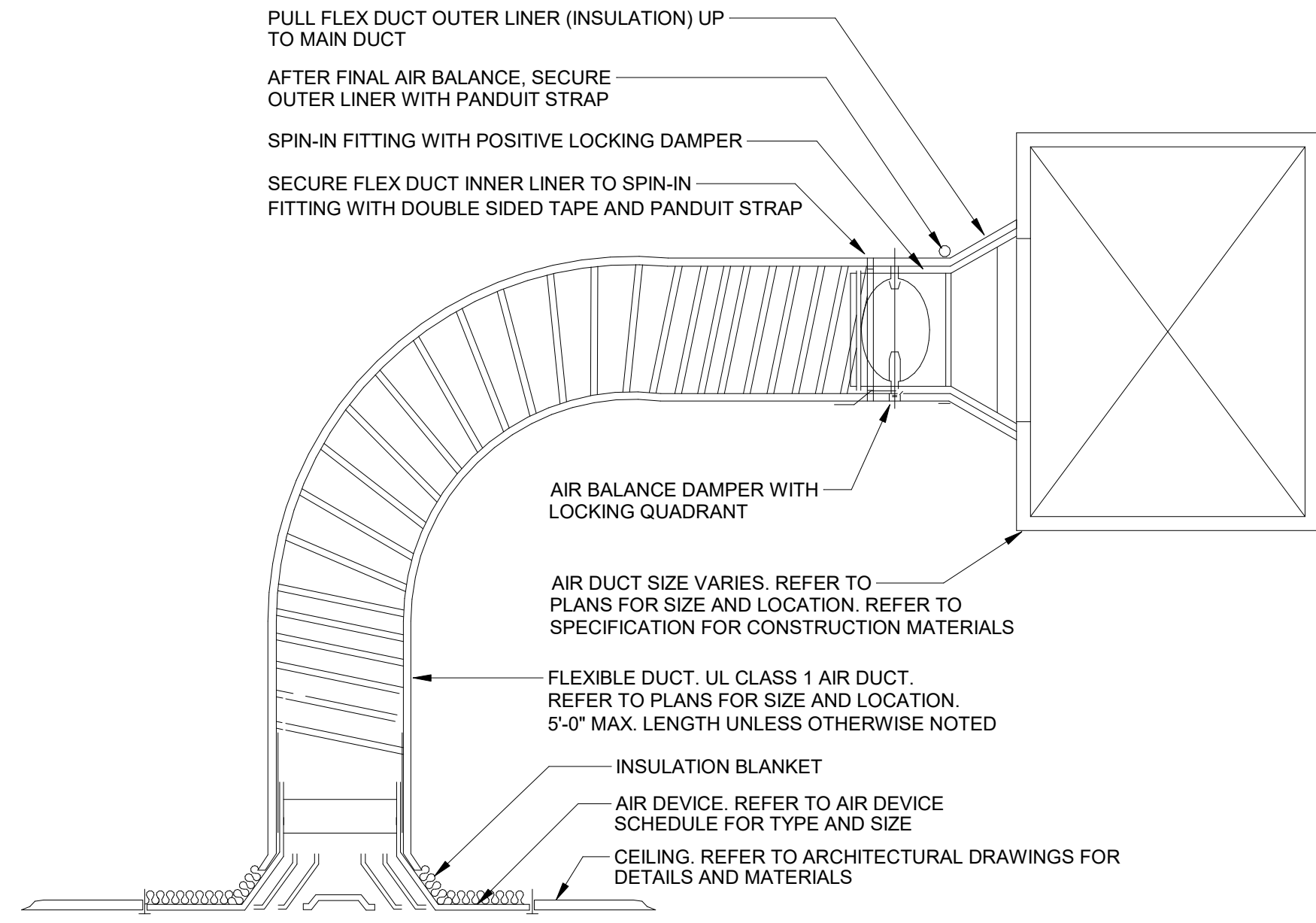
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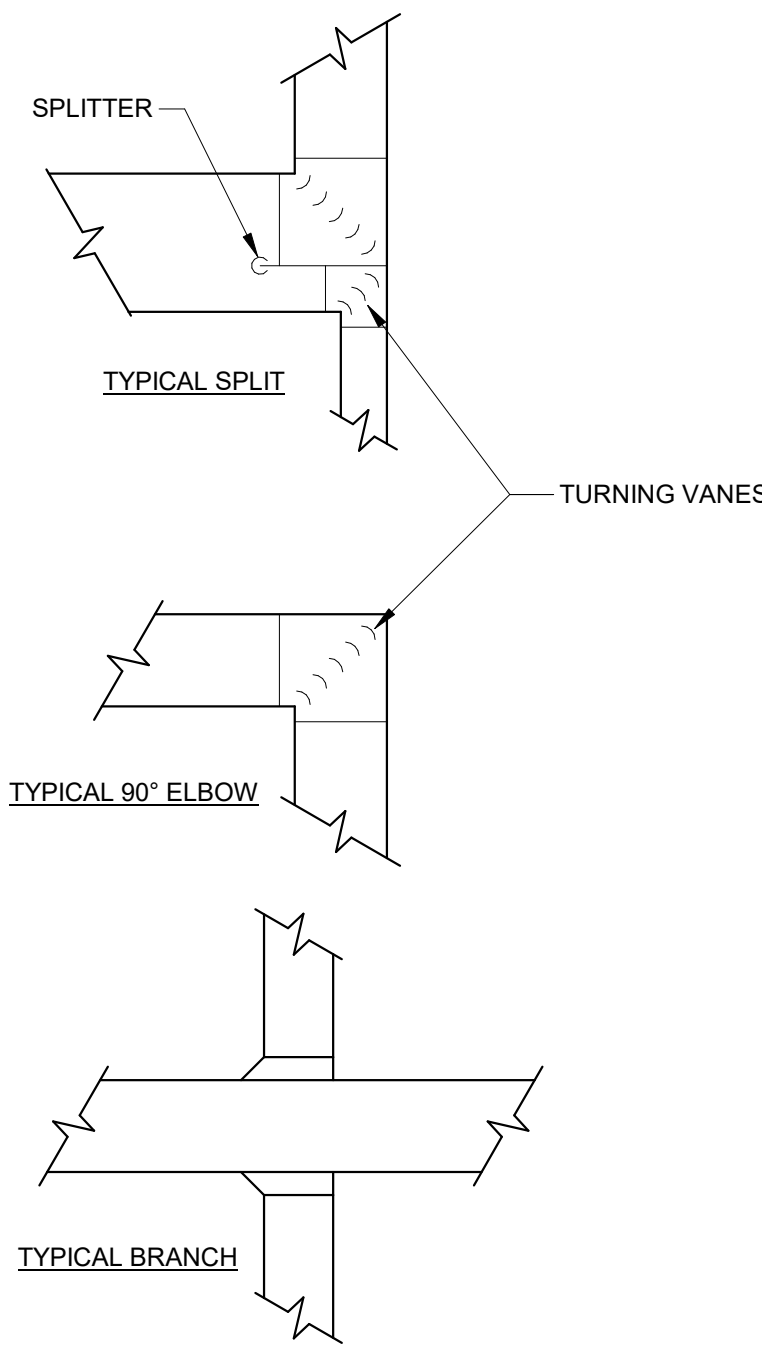
6707 RIVERSIDE DRIVE, AUSTIN, TX 7874

MECHANICAL - ENLARGED VIEW

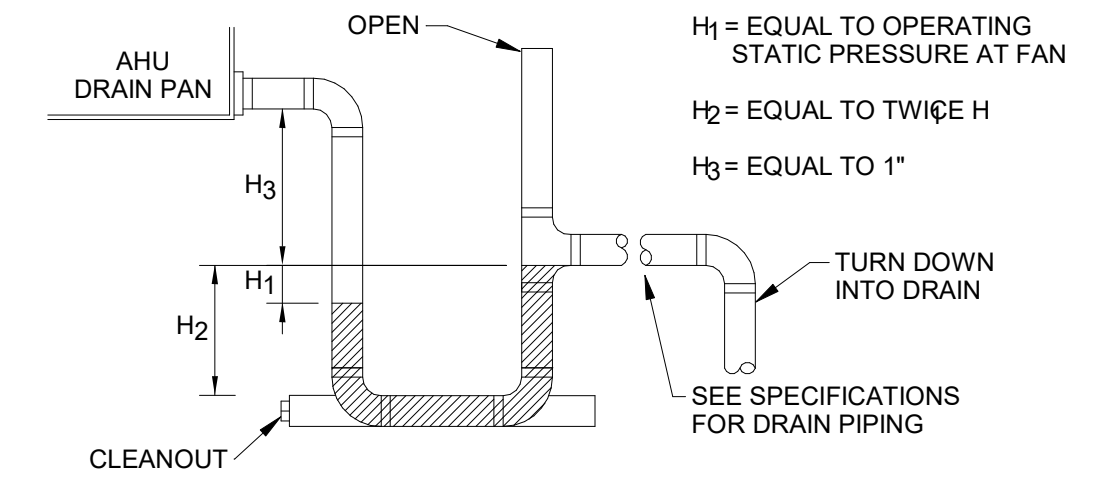
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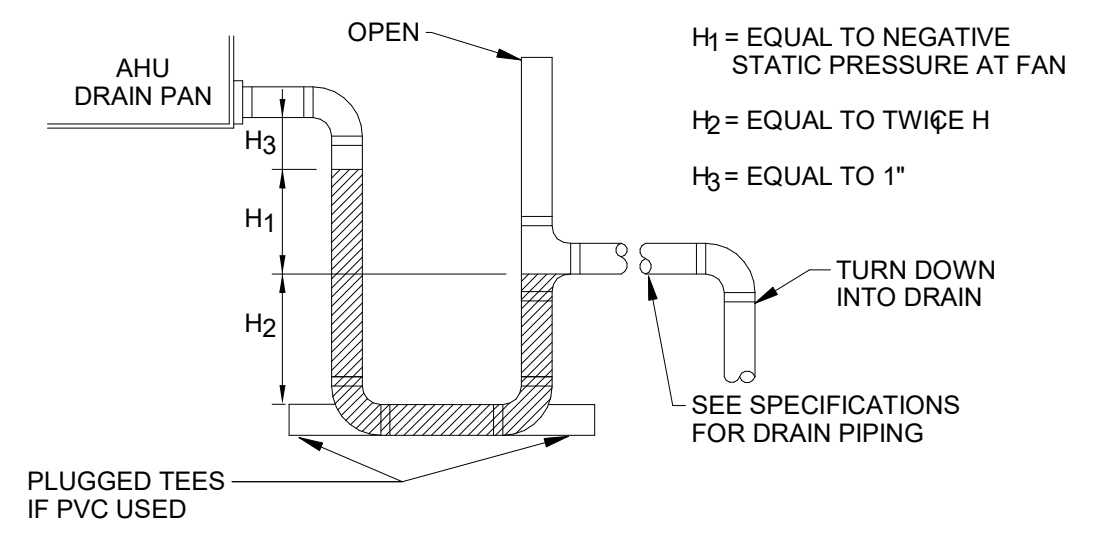
3 LAY-IN SUPPLY AIR DEVICE DUCT CONNECTION DETAIL
12" = 1'-0"



2 DUCTWORK DETAILS
12" = 1'-0"

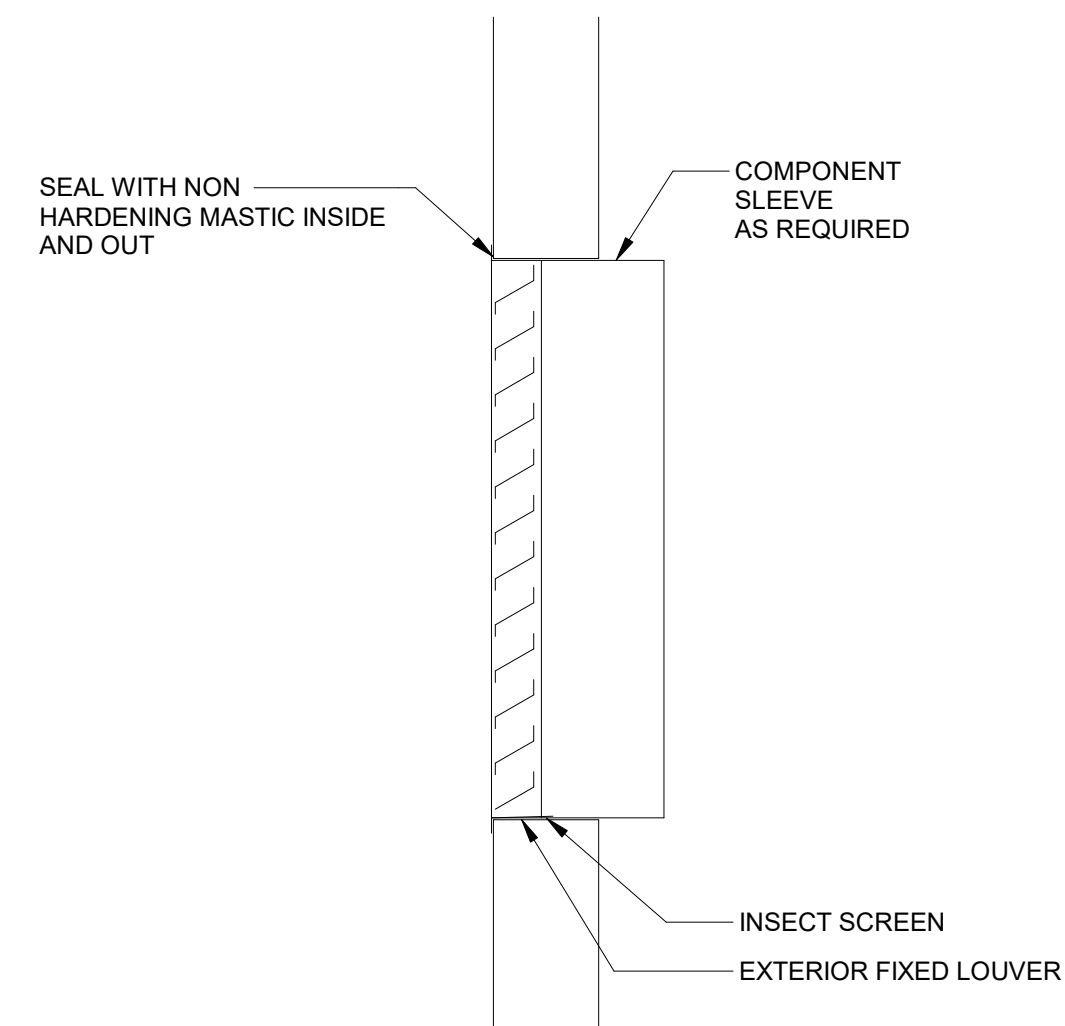


BLOW-THROUGH UNIT DRAIN DETAIL NO SCALE

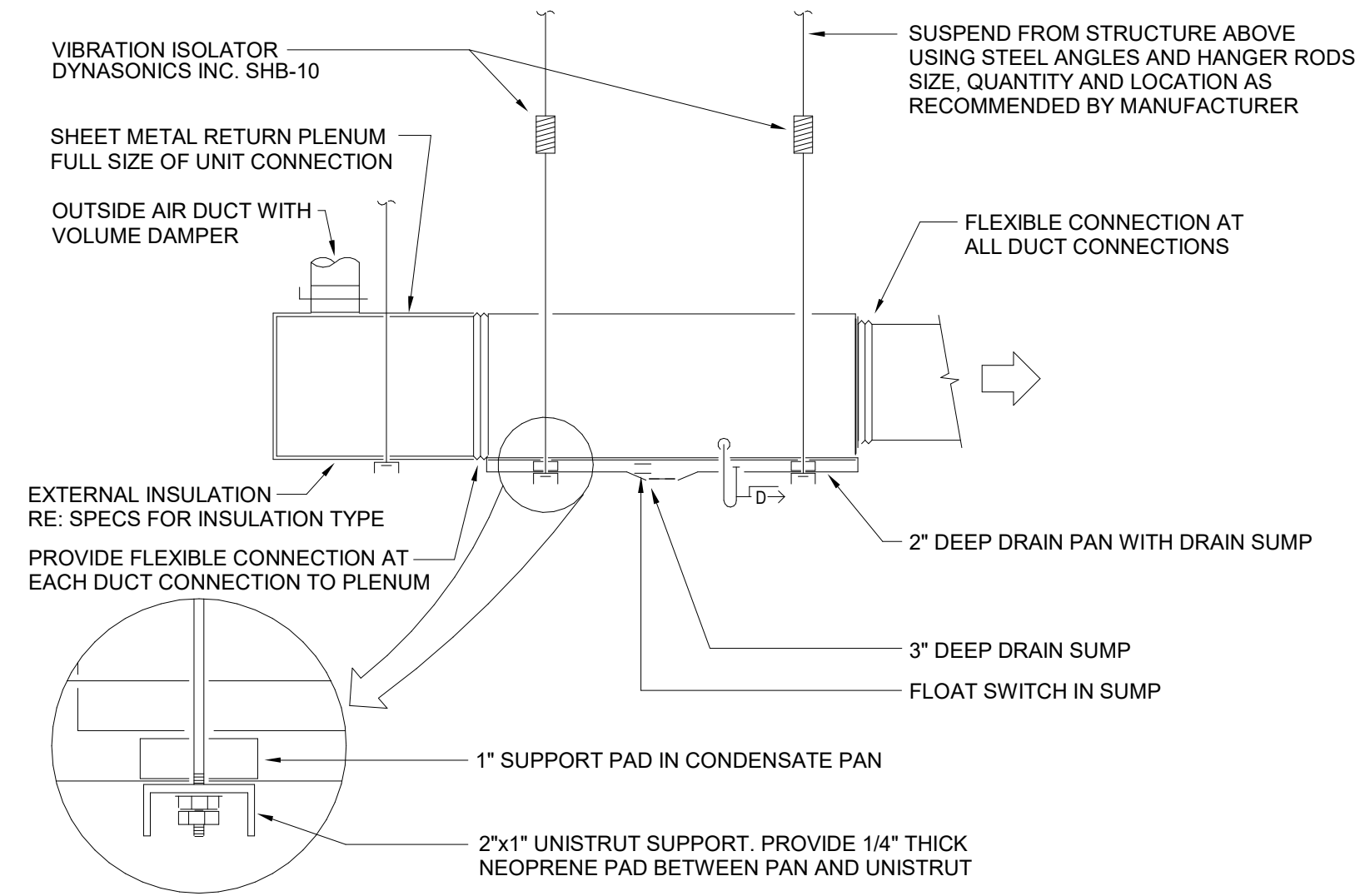


DRAW-THROUGH UNIT DRAIN DETAIL NO SCALE

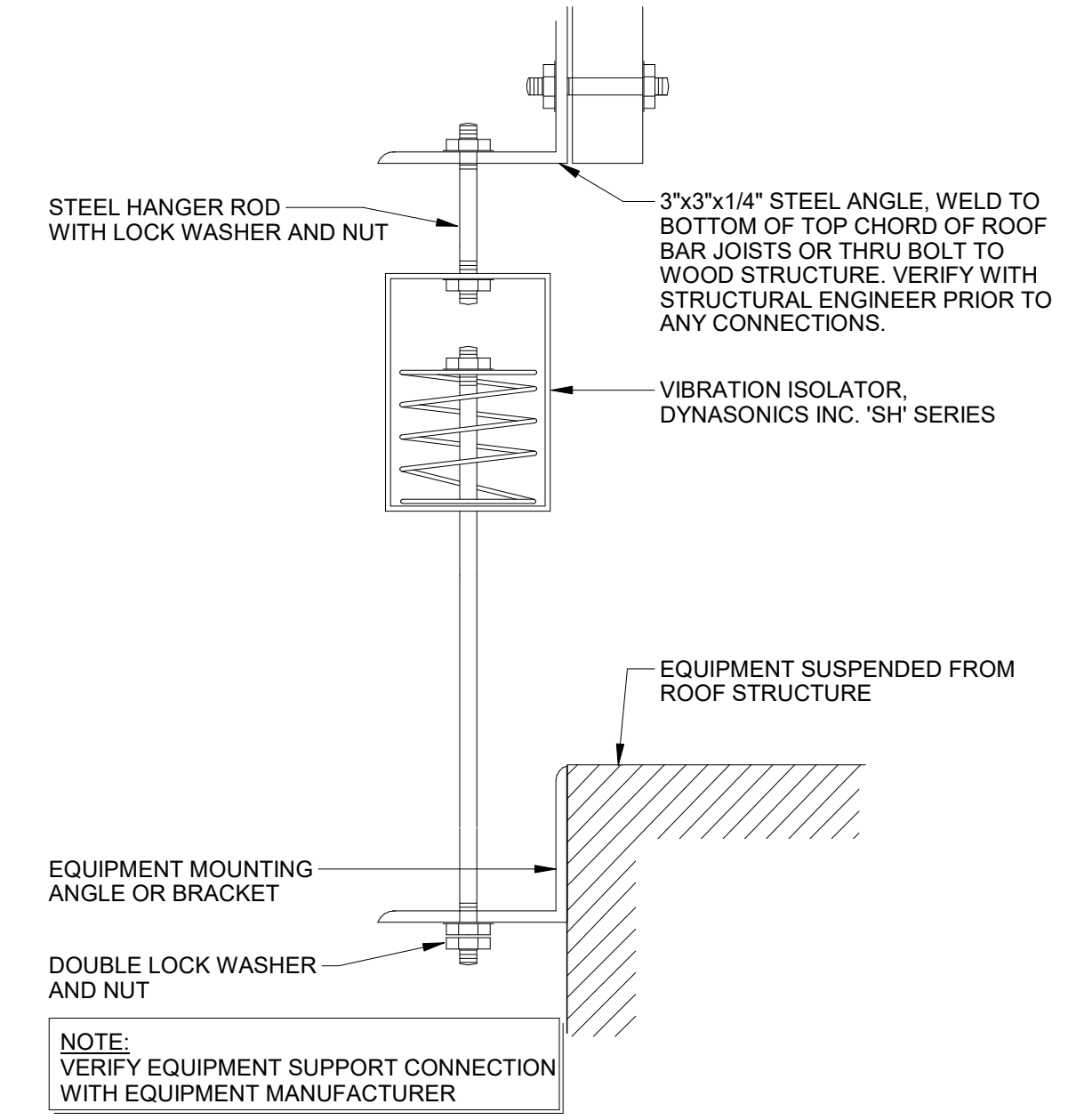
1 CONDENSATE DRAIN DETAIL
12" = 1'-0"



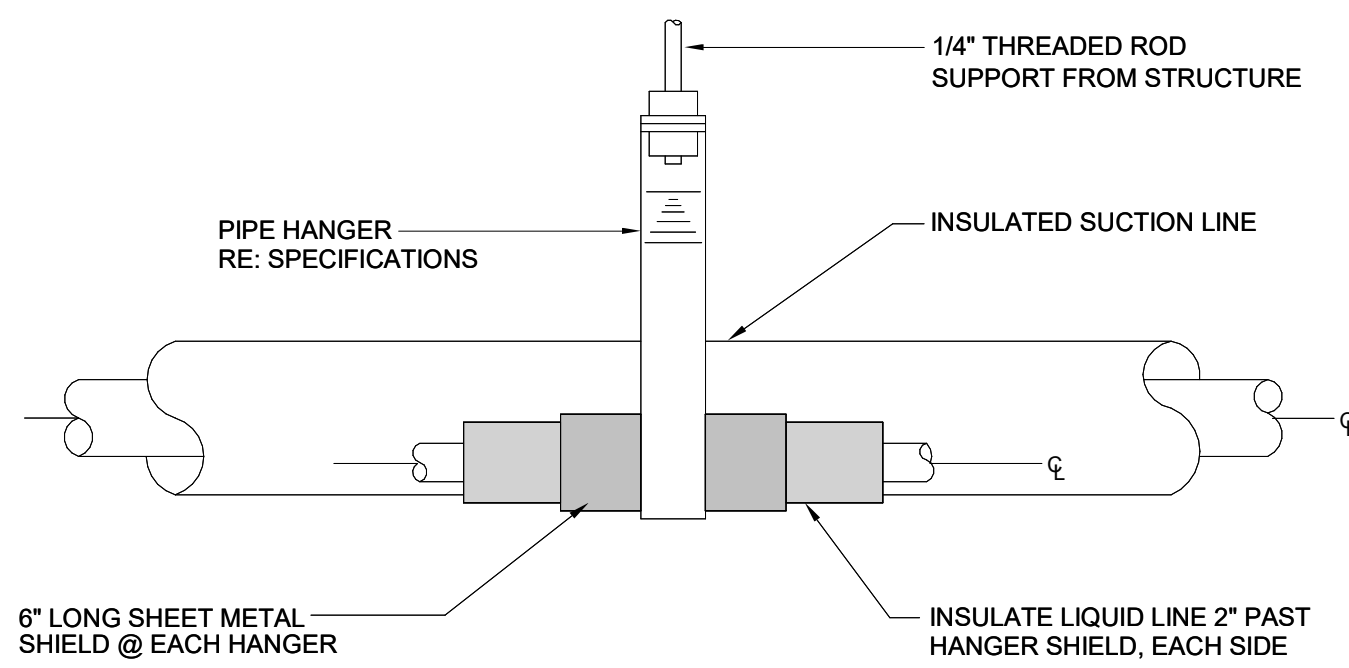
6 LOUVER DETAIL
12" = 1'-0"



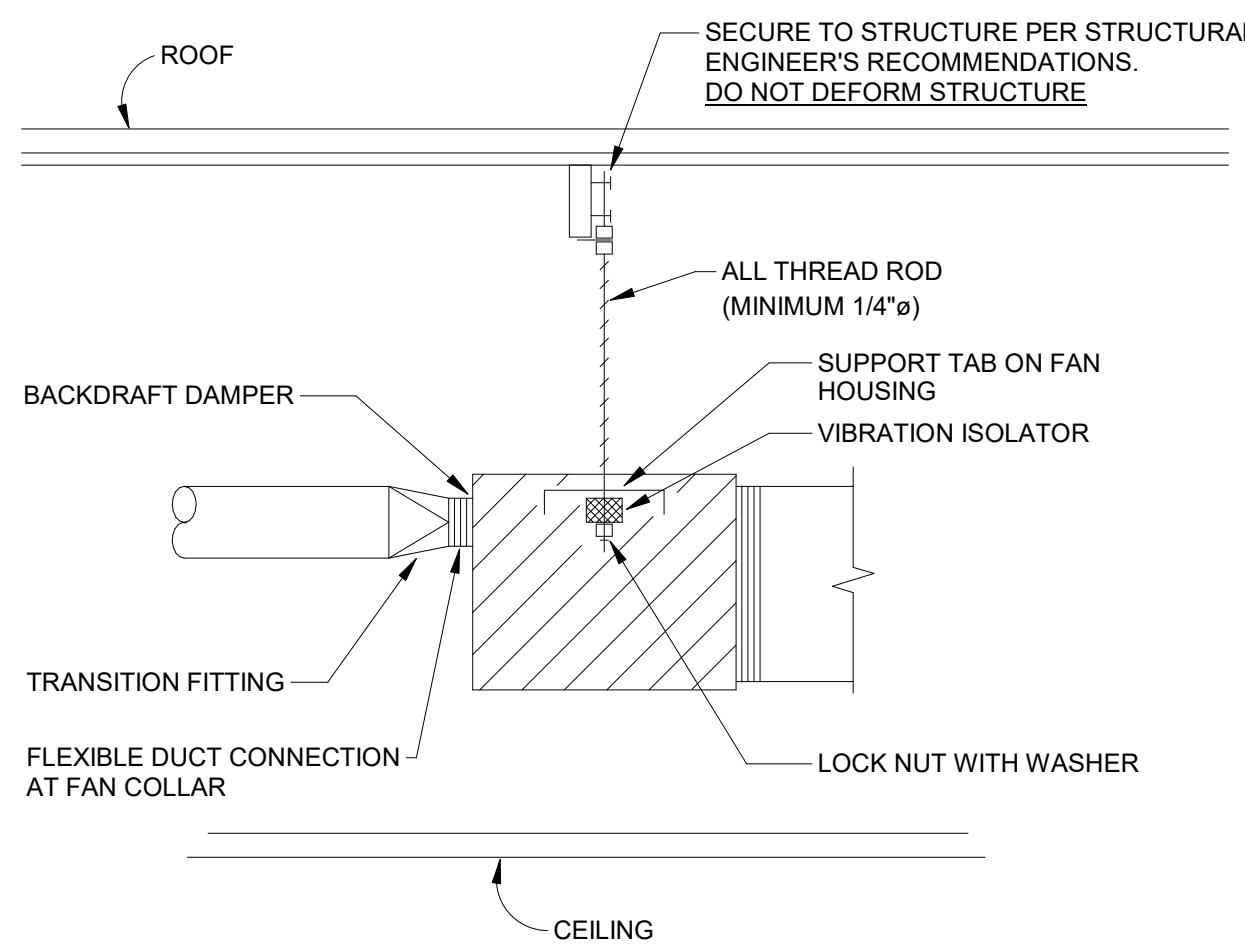
5 HORIZONTAL FAN COIL UNIT DETAIL
12" = 1'-0"



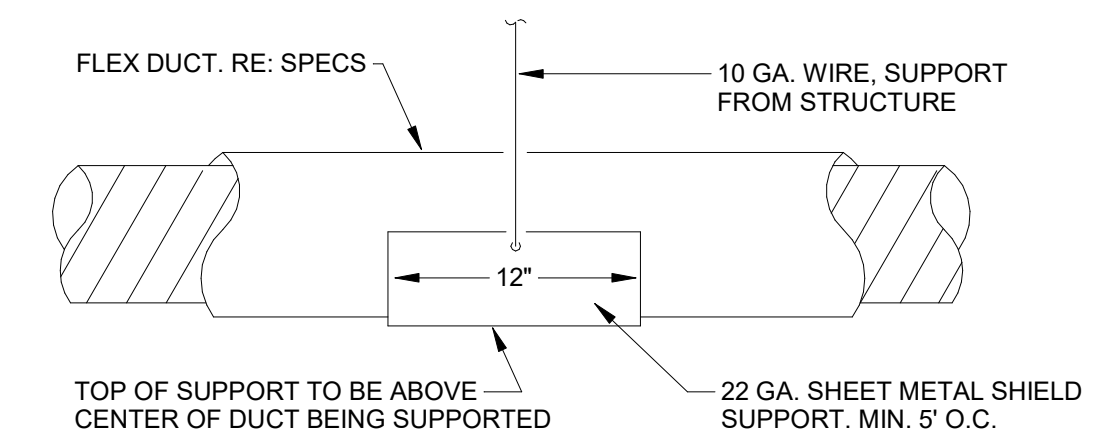
4 EQUIPMENT SUSPENSION DETAIL
12" = 1'-0"



9 REFRIGERANT PIPE SUPPORT DETAIL
12" = 1'-0"



8 IN-LINE FAN DETAIL
12" = 1'-0"



7 FLEX DUCT SUPPORT DETAIL
12" = 1'-0"

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MECHANICAL DETAILS

OA CALCULATION											
PER 2021 UMC WITH CITY OF AUSTIN AMENDMENTS TABLE 402.1											
ZONE	ROOM	OA/PERSON (CFM/PERSON)	NUMBER OF PEOPLE	PEOPLE OA (CFM)	OA/AREA (AREA/CFM)	AREA	AREA OA (CFM)	BREATHING ZONE OA (CFM)	ZONE EFFECTIVENESS	TOTAL OA REQUIRED (CFM)	TOTAL OA PROVIDED (CFM)
FCU-1	1 - RECEPTION/RETAIL 1	5	8	40	0.06	778 SF	47	87	0.8	109	
FCU-1	4 - LOBBY 2	5	0	0	0.06	183 SF	11	11	0.8	14	
FCU-1	6 - PREP ROOM1	5	1	5	0.06	119 SF	7	12	0.8	15	
FCU-1	7 - EXAM 1	5	1	5	0.06	131 SF	8	13	0.8	16	
FCU-1	8 - EXAM 2	5	1	5	0.06	131 SF	8	13	0.8	16	
FCU-1	9 - STORAGE	5	0	0	0.06	35 SF	2	2	0.8	3	
FCU-1	10 - BREAKROOM	5	2	10	0.06	212 SF	13	23	0.8	29	
FCU-1										202	205
FCU-2	2 - RECEPTION/RETAIL 2	5	7	35	0.06	696 SF	42	77	0.8	96	
FCU-2	3 - LOBBY 1	5	0	0	0.06	285 SF	17	17	0.8	21	
FCU-2	5 - LAB	10	1	10	0.18	116 SF	21	31	0.8	39	
FCU-2	11 - EXAM 4	5	1	5	0.06	135 SF	8	13	0.8	16	
FCU-2	12 - EXAM 3	5	1	5	0.06	130 SF	8	13	0.8	16	
FCU-2	13 - PREP 2	5	1	5	0.06	120 SF	7	12	0.8	15	
FCU-2	14 - ADMIN/VISITING DOC	5	2	10	0.06	203 SF	12	22	0.8	28	
FCU-2										231	235
TOTAL										440 CFM	

AIR DEVICE SCHEDULE							
DESIGNATION	FACE SIZE	TYPE	FRAME TYPE	VOLUME DAMPER	MANUFACTURER	MODEL	NOTES
A	24"x24"	SUPPLY	LAY-IN/SURFACE	No	TITUS	OMNI	PROVIDE VOLUME DAMPER AT DUCT TAP.
B	12"x12"	SUPPLY	LAY-IN/SURFACE	No	TITUS	OMNI	PROVIDE VOLUME DAMPER AT DUCT TAP.
C	24"x24"	RETURN	LAY-IN/SURFACE	No	TITUS	50F	
D	24"x24"	RETURN	LAY-IN/SURFACE	No	TITUS	50F	
E	24"x24"	EXHAUST	LAY-IN/SURFACE	Yes	TITUS	50F	
F	12"x12"	EXHAUST	LAY-IN/SURFACE	Yes	TITUS	50F	

GENERAL AIR DEVICE NOTES

- COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL FLEX SHALL BE SIZED TO MATCH AIR DEVICE NECK SIZE. REFER TO PLANS.
- VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASE.
- VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE.
- ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.
- LAY-IN DEVICES WHEN USED IN HARD CEILINGS SHALL BE INSTALLED USING MANUFACTURER'S COMPANION FRAME AND SHALL BE PROVIDED WITH REMOTE DAMPER OPERATOR.

FAN COIL UNIT SCHEDULE																			
DESIGNATION	AIRSIDE DATA				COOLING COIL DATA				ELECTRIC HEATING DATA				ELECTRICAL DATA						
	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	EXT. S.P. (IN W.G.)	FAN MOTOR HP	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (F)	LAT DB/WB (F)	HEATING TYPE	CAPACITY (KW)	EAT DB (F)	LAT DB (F)	V/PH/Hz	MCA	MOCP	MANUFACTURER	MODEL NO.	WEIGHT (LBS.)	NOTES
FCU 1	1400	205	0.5	1	40	32	79/67	57	ELECTRIC	10 KW	63	86	208/1/60	52	60	GOODMAN	AMST48DU1400A	155	ALL
FCU 2	1200	235	0.5	0.75	34.4	28	80/67	58	ELECTRIC	10 KW	61	87	208/1/60	52	60	GOODMAN	AMST36CU1400A	129	ALL

FAN COIL UNIT SCHEDULE KEYNOTES

- PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN PAN, 1" PLEATED MEDIA MERV 8 FILTERS, AND THERMAL EXPANSION VALVE.
- PROVIDE 7-DAY PROGRAMMABLE AUTOCHANGEOVER THERMOSTAT.
- PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
- PROVIDE SUPPLY SIDE DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN.

CONDENSING UNIT SCHEDULE																
DESIGNATION	SEER2/EER2 (ARI)	AMBIENT AIR TEMP. (F)	ELECTRICAL DATA													
			V/PH/Hz	NO. OF COMPRESSORS	RLA / COMPRESSOR	NO. OF CONDENSER FANS	FLA / CONDENSER FAN	MCA	MOCP	MANUFACTURER	MODEL NO.	NOMINAL TONNAGE	WEIGHT (LBS.)	NOTES		
CU 1	15/11.7	105	208/1/60	1	17.7	1	1.3	23.4	40	GOODMAN	GSXB404210	3.5	278	ALL		
CU 2	14.3/11.7	105	208/1/60	1	14.1	1	0.95	18.6	30	GOODMAN	GSXB403610A	3	162	ALL		

HEAT PUMP SCHEDULE KEYNOTES

- PROVIDE CONDENSER COIL HAIL GUARDS.
- PROVIDE LOW AMBIENT CONTROL.
- PROVIDE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FAN SCHEDULE												
DESIGNATION	CFM	EXT. S.P. (IN W.G.)	DRIVE	MOTOR HP	MAX. RPM	V/PH/Hz	TYPE	MANUFACTURER	MODEL NO.	MAX. SONES	WEIGHT (LBS.)	NOTES
EF 1	75	0.25	DIRECT	0.05	1725	120/1/60	INLINE	COOK	70SQND	3.9	37	1.2
EF 2	115	0.25	DIRECT	1/6	1725	120/1/60	INLINE	COOK	90SQND	4	53	1.3

FAN SCHEDULE KEYNOTES


- PROVIDE WITH DISCONNECT SWITCH, BACKDRAFT DAMPER, FAN MOUNTED SPEED CONTROL.
- INTERLOCK WITH LIGHTS.
- PROVIDE SEPARATE SWITCH.

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MECHANICAL SCHEDULES

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DIVISION 16 - ELECTRICAL SPECIFICATIONS	
THIS DIVISION INCLUDES THE FOLLOWING:	
POWER DISTRIBUTION. LIGHTING FIXTURES AND RECEPTACLES. POWER, INTERLOCK AND CONTROL WIRING FOR MECHANICAL SYSTEMS. WIRING FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER DIVISION. EXISTING ELECTRICAL SERVICE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. FIRE ALARM SYSTEM. DOOR MONITORING SYSTEM. LIGHTNING PROTECTION SYSTEM.	
COMPLETED INSTALLATION SHALL MEET REQUIREMENTS OF 2023 EDITION OF NATIONAL ELECTRICAL CODE, CITY OF AUSTIN ORDINANCE #20200507-027 AND AUSTIN ENERGY UTILITY DESIGN CRITERIA MANUAL.	
COMPLETE INSTALLATION SHALL MEET REQUIREMENTS OF THE WILLIAMS-STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, ITS SUBSEQUENT AMENDMENTS, AND INTERPRETATIONS OF THE ACT PROMULGATED BY OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE DEPARTMENT OF LABOR.	
EXISTING POWER DISTRIBUTION SYSTEM CONSISTS OF A 3 PHASE, 4 WIRE, 120/208 VOLT SERVICE ENTRANCE, AND BRANCH CIRCUIT PANELBOARDS.	
THE ENTIRE SYSTEM, INCLUDING DEVICES, APPARATUS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250, NATIONAL ELECTRICAL CODES, CURRENT EDITION.	
WIRE AND CABLE	
BRANCH CIRCUIT WIRING NO.10 AND SMALLER SHALL BE COPPER, SOLID, TYPE THHN/THWN. NO CONDUCTOR SHALL BE SMALLER THAN NO.12. MC CABLE MAY BE USED IN CONCEALED INDOOR LOCATIONS FOR BRANCH CIRCUIT WIRING RATED FOR 15A OR 20A. FEEDER AND POWER WIRING NO.8 AND LARGER SHALL BE COPPER, STRANDED TYPE THHN/THWN.	
CONTROL AND FIRE ALARM SYSTEM WIRING SHALL BE NO.14 TYPE THHN.	
COLOR CODE ALL CONDUCTORS IN ACCORDANCE WITH CITY OF AUSTIN ORDINANCE #20200507-027.	
CONDUIT	
LIGHTING, POWER AND CONTROL WIRING SHALL BE INSTALLED IN CONDUIT AND/OR UNDERFLOOR RACEWAYS, RIGID GALVANIZED CONDUIT SHALL BE USED WHERE CAST IN CONCRETE, WHERE EXPOSED TO POTENTIAL MECHANICAL DAMAGE, WHERE RUN OUTDOORS EXPOSED TO WEATHER, AND FOR PANEL FEEDERS. ELECTRICAL METALLIC TUBING SHALL BE USED WHERE CONCEALED IN WALLS, WHERE RUN EXPOSED IN EQUIPMENT ROOMS AND WHERE INSTALLED ABOVE SUSPENDED CEILING. CONDUIT INSTALLED UNDERGROUND SHALL BE SCHEDULE 40 PVC. PROVIDE 24" FLEXIBLE METAL CONDUIT AT CONNECTIONS TO ALL MECHANICAL EQUIPMENT. USE LIQUID-TIGHT WHERE EXPOSED TO WEATHER OR LIQUIDS. PROVIDE PULLSTRING IN ALL SPARE AND EMPTY CONDUITS.	
BOXES	
INTERIOR BOXES SHALL BE GALVANIZED STEEL, UL LISTED, SIZED PER NEC. EXTERIOR BOXES SHALL BE CAST METAL, UL LISTED, NEMA 3R. COLOR CODE BOXES IN ACCORDANCE WITH CITY OF AUSTIN ORDINANCE #20200507-027.	
WIRING DEVICES	
RECEPTACLES AND SWITCHES SHALL BE EQUIVALENT TO HUBBELL #5352 AND #1221 SERIES. DEVICE PLATES SHALL BE SMOOTH NYLON. DIMMERS SHALL BE EQUAL TO HUBBELL 'AS' SERIES WITH CAPACITY AS REQUIRED FOR THE LOAD SERVED. ISOLATED GROUND RECEPTACLES SHALL BE EQUAL TO HUBBELL #G5362 SERIES. GFI RECEPTACLES SHALL BE EQUAL TO HUBBELL #GF5352 SERIES. WEATHERPROOF COVERPLATES SHALL BE UL LISTED WEATHERPROOF WHEN IN USE. TAMPER RESISTANT RECEPTACLES SHALL BE EQUAL TO HUBBELL #HBL5663H SERIES.	
SAFETY SWITCHES	
SAFETY SWITCHES AND DISCONNECTS SHALL BE HEAVY DUTY, HORSEPOWER RATED, LOCKABLE IN THE 'OFF' POSITION. PROVIDE NEMA 3R ENCLOSURE FOR OUTDOOR LOCATIONS, NEMA 1 ENCLOSURE FOR INDOOR LOCATIONS. FUSES SHALL BE DUAL ELEMENT TIME DELAY TYPE.	
MOTOR CONTROLLERS	
NEMA RATED, FVNR COMBINATION MAGNETIC STARTERS WITH NON-FUSED DISCONNECT. PROVIDE WITH 120V CONTROL POWER TRANSFORMER, TWO (2) AUXILIARY CONTACTS A RED PILOT LIGHT AND HOA SWITCH.	
LIGHTING	
INTERIOR AND EXTERIOR LIGHTING SHALL BE AS SELECTED BY THE OWNER AND SHALL BE EQUAL TO LITHONIA. SUPPORT FIXTURES FROM STRUCTURE, INDEPENDENT OF CEILING SYSTEM, IN ACCORDANCE WITH CITY OF AUSTIN ORDINANCE #20200507-027.	
TELEPHONE SYSTEM	
SYSTEM SHALL CONSIST OF OUTLET BOXES, EMPTY CONDUITS AND RACEWAYS, RUN FROM POINT TO USE TO ACCESSIBLE CEILING SPACE, AS SHOWN ON DRAWINGS.	
FIRE ALARM SYSTEM	
THE BUILDING FIRE ALARM SYSTEM SHALL BE EXPANDED IN ACCORDANCE WITH NFPA 72. NFPA 101 AND THE INTERNATIONAL BUILDING CODE. SMOKE AND DUCT DETECTORS SHALL BE PHOTOELECTRIC TYPE. MANUAL PULL STATIONS SHALL BE DOUBLE ACTION TYPE. HEAT DETECTORS SHALL BE 15 DEG. F. OR 20 DEG. F. PER MINUTE RATE OF RISE, 177 DEG. F. OR 135 DEG. F. FIXED TEMPERATURE, COORDINATED TO ACTUATE BEFORE SPRINKLER HEADS. INSTALL FIRE ALARM SYSTEM WIRING IN CONDUIT. WHEN PLENUM RATED WIRING IS USED, CONDUIT MAY BE OMITTED IN ACCESSIBLE CEILING SPACE WHEN IN ACCORDANCE WITH EXISTING BUILDING STANDARDS.	
DOOR MONITORING	
DOOR MONITORING SYSTEM SHALL BE BY SILENT KNIGHT OR EQUAL.	

ELECTRICAL ABBREVIATIONS			
A	AMPERES	LTG	LIGHTING
ABV	ABOVE	MAX	MAXIMUM
A/C	AIR CONDITIONING	MC	MECHANICAL CONTRACTOR
ACT	ABOVE COUNTER TOP	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AF	AMP FUSED	MCM	THOUSAND CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	MCP	MAIN DISTRIBUTION PANEL
AL	ALUMINUM	MECH	MECHANICAL
ARCH	ARCHITECT	MH	MANHOLE
ASB	ABOVE SPLASH BLOCK	MIN	MINIMUM
ASC	ABOVE SUSPENDED CEILING	MISC	MISCELLANEOUS
ASD	ADJUSTABLE SPEED DRIVE	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	MTD	MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BFF	BELOW FINISH FLOOR	NEUT	NEUTRAL
BLDG	BUILDING	NF	NON FUSED
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
C/B	CIRCUIT BREAKER	N.O.	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	N.C.	NORMALLY CLOSED
CCT	CIRCUIT	NO.	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
COL	COLUMN	OC	OVER COUNTERTOP
COMB	COMBINATION	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OFCI	OWNER FURNISHED CONTRACTOR
CONST	CONSTRUCTION	OH	OVERHEAD
DFC	DOWN FROM CEILING	P	POLE
DIA	DIAMETER	PC	PLUMBING CONTRACTOR
DN	DOWN	PF	POWER FACTOR
DWG	DRAWING	PH	PHASE
EA	EACH	PL	PROPERTY LINE
EC	ELECTRICAL CONTRACTOR	PNL	PANEL
EF	EXHAUST FAN	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRIC / ELECTRICAL	RECP	RECEPTACLE
EMER	EMERGENCY	RE	REFERENCE/REFER TO
EMT	ELECTRICAL METALLIC TUBING	REQD	REQUIRED
EPO	EMERGENCY POWER OFF	RGS	RIGID GALVANIZED STEEL
EQUIP	EQUIPMENT	RM	ROOM
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EX	EXISTING	SPEC	SPECIFICATIONS
EXT	EXTERIOR	SVC	SERVICE
FA	FIRE ALARM	TEL	TELEPHONE
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FLR	FLOOR/FLOORING	TS	TRANSFER SWITCH
FXTR	FIXTURE	TYP	TYPICAL
G	GROUND	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GD	GENERAL DUTY	UL	UNDERWRITER'S LABORATORIES
GEN	GENERATOR	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPT	V	VOLTS
HD	HEAVY DUTY	VA	VOLT - AMPERES
HP	HORSEPOWER	VSD	VARIABLE SPEED DRIVE
HT	HEIGHT	W	WATTS
HVAC	HEATING/VENTILATING/AIR CONDITIONING	W/	WITH
HW	HOT WATER	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WEATHER PROOF
IG	ISOLATED GROUND	WR	WEATHER RESISTANT
IMT	INTERMEDIATE METAL	WT	WEIGHT
J	JUNCTION BOX	WTR	WATER
KVA	KILOVOLT-AMPERES	WW	WASTE WATER
KW	KILOWATTS	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MILS		

GENERAL ELECTRICAL NOTES			
1. COMPLETED INSTALLATION SHALL MEET REQUIREMENTS OF 2023 EDITION OF NATIONAL ELECTRICAL CODE, CITY OF AUSTIN ORDINANCE #20200507-027 AND AUSTIN ENERGY UTILITY DESIGN CRITERIA MANUAL OF 2020. INSTALLATION SHALL ALSO MEET REQUIREMENTS OF IECC 2021 AND CITY OF AUSTIN ORDINANCE #20210603-055			
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MINIMIZE CONFLICTS.			
3. ALL WIRE AND CABLE SIZES ARE FOR COPPER, UNLESS NOTED OTHERWISE AS ALUMINUM.			
4. NO CONDUCTOR SHALL BE LOADED BEYOND ITS ALLOWABLE AMPACITY.			
5. CONFIRM WITH LOCAL CODES, MECHANICAL CONTRACTOR AND EQUIPMENT VENDORS ON THE LOCATION AND MOUNTING METHOD FOR DISCONNECT SWITCHES, MANUAL MOTOR STARTERS, COMBINATION STARTER/DISCONNECTS, ETC. PRIOR TO ELECTRICAL ROUGH-IN AND INSTALLATION.			
6. ELECTRICAL CONTRACTOR SHALL DOUBLE CHECK ALL FEEDER CONDUCTOR AND CONDUIT SIZES WITH NEC AND LOCAL CODES PRIOR TO BID, ORDERING OR CUTTING CONDUCTORS.			
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO ARCHITECT/ENGINEER IMMEDIATELY. LIGHT FIXTURES ARE SHOWN IN APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.			
8. UNLESS NOTED OTHERWISE, BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER (THW OR EQUAL) SIZED AS FOLLOWS:			
BREAKER RATING	WIRE SIZE	BREAKER RATING	WIRE SIZE
15 AMP	#12 AWG	60 AMP	#4 AWG
20 AMP	#12 AWG	70 AMP	#4 AWG
30 AMP	#10 AWG	80 AMP	#3 AWG
40 AMP	#8 AWG	90 AMP	#2 AWG
50 AMP	#6 AWG	100 AMP	#1 AWG
ALL BRANCH CIRCUITS WITH AN OVERALL LENGTH IN EXCESS OF 75 FEET SHALL BE INCREASED IN WIRE SIZE TO ACCOMMODATE VOLTAGE DROP.			
9. CONTRACTOR SHALL CONNECT MOTORIZED DAMPERS FROM ASSOCIATED UNITS POWER SUPPLY FOR ALL PRV, SEF, SSF MISCELLANEOUS FANS, ETC. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.			
10. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.			
11. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR FUTURE SERVICE PER NEC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND POINTS OF ACCESS.			
12. LIGHT FIXTURES SHALL BE OPERATED BY SWITCH LOCATED IN SAME ROOM UNLESS NOTED OTHERWISE.			
13. CONDUITS SHALL NOT BE ROUTED EXPOSED IN FINISHED AREAS UNLESS NOTED.			
14. ALL SLEEVES THRU FLOOR SHALL BE SEALED WATERTIGHT AND SHALL TERMINATE MINIMUM 4" AFF.			
15. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS, DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO FACILITATE NEW CONSTRUCTION AND INCLUDE ALL SUCH WORK IN HIS BID. NO ADDITIONAL FUNDS WILL BE AUTHORIZED FOR ANY EXTRA WORK OR MATERIAL NECESSARY DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OR FOR LACK OF COORDINATION BETWEEN TRADES.			
16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.			
17. REFER TO ARCHITECTURAL BUILDING ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES.			
18. PVC CONDUIT SHALL ONLY BE USED UNDERGROUND WITH PLASTIC COATED OR WRAPPED RIGID STEEL CONDUIT ELBOWS. ALL INTERIOR CONDUIT SHALL BE EMT.			
19. SEE MECHANICAL FLOOR PLANS FOR THERMOSTAT LOCATIONS.			
20. PROVIDE NYLON COVERPLATES FOR ALL OUTLET BOXES.			
21. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS.			
22. DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT BE DRAWN EXACTLY TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND ALL OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.			
23. ALL CIRCUITS SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC 250.122, UNLESS NOTED OTHERWISE.			
24. ALL PENETRATIONS OF FIRE RATED PARTITIONS DUE TO THE INSTALLATION OF THE ELECTRICAL SYSTEMS SHALL BE SEALED TO MAINTAIN THE FIRE RATING OF THE WALL AND/OR FLOOR/CEILING.			
25. CONTRACTOR SHALL PROVIDE ACCURATE PANEL SCHEDULES. SCHEDULES SHALL INDICATE DEVICES AND/OR EQUIPMENT SERVED, LOCATION AND/OR ROOM NUMBERS.			
26. WHERE DEVICES ARE INDICATED TO BE MOUNTED OVER THE COUNTER TOP, MOUNT THE DEVICE 2" ABOVE THE BACKSPLASH TO THE BOTTOM. WHERE NO BACKSPLASH EXISTS, MOUNT DEVICE AT 2" ABOVE COUNTER TOP TO BOTTOM.			
27. WHERE TIGHTENING TORQUE IS INDICATED AS A NUMERIC VALUE OR IN INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER, A CALIBRATED TORQUE TOOL SHALL BE USED TO ACHIEVE THE INDICATED VALUE. UNLESS THE EQUIPMENT MANUFACTURER HAS PROVIDED INSTALLATION INSTRUCTIONS FOR AN ALTERNATIVE METHOD OF ACHIEVING THE REQUIRED TORQUE. CONTRACTOR SHALL PROVIDE A LETTER TO THE ELECTRICAL INSPECTOR STATING THAT ALL ELECTRICAL EQUIPMENT HAS BEEN TORQUED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.			

FIRE ALARM PERFORMANCE SPECIFICATION	
THE EXISTING FIRE ALARM SYSTEM SHALL BE EXPANDED AS REQUIRED TO SERVE ALL NEW DEVICES REQUIRED FOR THIS PROJECT. A COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM SHALL BE DESIGNED BY A TEXAS LICENSED FIRE ALARM SYSTEM DESIGN PROFESSIONAL. FIRE ALARM REQUIREMENTS SHALL BE PROVIDED BY BASE BUILDING FIRE ALARM CONTRACTOR. CONTRACTOR SHALL SUBMIT FIRE ALARM INSTALLATION DRAWINGS TO AUSTIN FIRE DEPARTMENT AND CITY OF AUSTIN FOR REVIEW AND TO ARCHITECT FOR ADA REVIEW. CONTRACTOR SHALL COORDINATE DEVICE LAYOUTS WITH ARCHITECT AND ALL TRADES PRIOR TO START OF CONSTRUCTION. ELECTRICAL DRAWINGS REFLECT ONLY SMOKE DETECTORS FOR CONTROL OF MECHANICAL UNITS AND SMOKE/FIRE DAMPER CONNECTIONS TO FIRE ALARM SYSTEMS AS INDICATED. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH OTHER TRADES AND SHALL PROVIDE AND INSTALL ALL FIRE ALARM DEVICES AND EQUIPMENT AS REQUIRED AT NO ADDITIONAL COST TO OWNER.	

ELECTRICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
E0.01A	ELECTRICAL NOTES
E0.01B	ELECTRICAL SYMBOLS
E2.01	OVERALL LEVEL 2 - ELECTRICAL
E3.01L	ENLARGED VIEW PLAN - LIGHTING
E3.01P	ENLARGED VIEW PLAN - POWER
E6.00	LIGHTING DIAGRAMS
E6.01	ELECTRICAL SCHEDULES/ DIAGRAMS
E8.00	LIGHTING COMCHECK

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ELECTRICAL NOTES

SHEET
E0.01A

LIGHTING CONTROLS SYMBOLS SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS		
NOTES: 1. ALL WALL MOUNTED LIGHTING CONTROLS ARE MOUNTED AT 48" AFF TO CENTER, UNO. 2. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE, LEVITON OR EQUAL BY SENSORSWITCH. 3. RESET TO FACTORY SETTING AT THE END OF CONSTRUCTION PHASE. 4. TOP OF SWITCH IN ON POSITION SHALL NOT EXCEED 48" AFF. IF SWITCH IS OVER COUNTERTOP, TOP OF SWITCH SHALL NOT EXCEED 46" AFF.		
SYMBOL	DESCRIPTION	REMARKS
S	20A SINGLE POLE SWITCH	NOTE 1, 3, 4
SXX	SENSOR SWITCH REFER TO SUBSCRIPTS	NOTE 1, 3, 4
OS	CEILING MOUNTED OCCUPANCY SENSOR	NOTE 2
PC	PHOTOCELL	
H-OS	CORNER MOUNTED OCCUPANCY SENSOR	NOTE 2
LIGHTING CONTROLS SUBSCRIPTS INDICATE THE FOLLOWING: a.b - SWITCH LEG BEING CONTROLLED 3 - THREE WAY SWITCH 4 - FOUR WAY SWITCH D - DIMMING SWITCH, RATED 2000 WATTS, UNO. WP - WEATHERPROOF EXP - EXPLOSION PROOF DS - SINGLE GANG DECORA STYLE SWITCH WITH THREE (3) MOMENTARY PUSH BUTTONS PER SWITCHES: ON/OFF, RAISE AND LOWER DIMMING, WITH SOFT CLICK INDICATOR AND GREEN LED INDICATOR LIGHT. COLOR AS SELECTED BY ARCHITECT. EXACT SWITCH LOCATION AS SHOWN ON PLAN. K - KEY OPERATED MC - MOMENTARY CONTACT P - PILOT LIGHT T - REMOTE EMERGENCY BATTERY TEST SWITCH F - FAN CONTROL SWITCH VS - MANUAL 'ON' SINGLE GANG DECORA STYLE SWITCH WITH THREE (3) MOMENTARY PUSH BUTTONS: ON/OFF, RAISE AND LOWER DIMMING, WITH VACANCY SENSOR, SOFT CLICK INDICATOR AND GREEN LED INDICATOR LIGHT. COLOR AS SELECTED BY ARCHITECT. EXACT SWITCH LOCATION AS SHOWN ON PLAN.		

WIRING DEVICE SYMBOL SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS. ALL MOUNTING HEIGHTS ARE TO THE CENTER OF BOX UNO. ALL WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO CENTER UNO.		
SYMBOL	DESCRIPTION	REMARKS
	20A, 120V DUPLEX RECEPTACLE	
	20A, 120V DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPT (GFI)	
	20A, 120V DUPLEX RECEPTACLE WITH ISOLATED INSULATED GROUND	
	20A, 120V DOUBLE DUPLEX RECEPTACLE	
	20A, 120V DOUBLE DUPLEX RECEPTACLE WITH ISOLATED INSULATED GROUND	
	20A, 120V SIMPLEX RECEPTACLE	
	20A, 120V SIMPLEX RECEPTACLE WITH GROUND FAULT INTERRUPT (GFI)	
	SPECIAL PURPOSE RECEPTACLE. SEE PLANS FOR DETAILS	
	RECESSED FLOOR BOX WITH 20A, 120V DOUBLE DUPLEX RECEPTACLE	
	RECESSED FLOOR BOX WITH 20A, 120V DUPLEX RECEPTACLE	
	20A, 120V DUPLEX RECEPTACLE - TOP HALF CONTROLLED BY WALL SWITCH	
	MULTI OUTLET PLUG STRIP ASSEMBLY AS INDICATED ON POWER PLANS.	
SUBSCRIPTS INDICATE THE FOLLOWING: WP - WEATHER RESISTANT RECEPTACLE IN A WEATHER PROOF IN-USE ENCLOSURE. SP - RECEPTACLE WITH SURGE SUPPRESSION. TR - TAMPER RESISTANT DUPLEX RECEPTACLE. C - CLOCK RECEPTACLE. MOUNT AT 90" AFF. 48" - DEVICE MOUNTED AT 48" AFF. OTHER MOUNTING HEIGHTS AS INDICATED. H - MOUNT DEVICE HORIZONTALLY. EWC - RECEPTACLE SERVING ELECTRIC WATER COOLER. MOUNTING HEIGHT AS REQUIRED. G - RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER (GFCI). OC - DEVICE MOUNTED OVER COUNTERTOP.		

LIGHTING SYMBOLS SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS		
NOTES: 1. IF WALL MOUNTED FIXTURE PROJECTS 4" OR MORE FROM FINISHED WALL THERE SHALL BE 80" VERTICAL CLEARANCE A.F.F. 2. PROVIDE A SEPARATE REFERENCE CONDUCTOR FOR THE FIXTURES BATTERY PACK. FED FROM THE SAME CIRCUIT AS THE FIXTURE. THIS REFERENCE CONDUCTOR SHALL NOT ROUTE THROUGH ANY LOCAL SWITCH OR LIGHTING CONTROL RELAY. ALL FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AS SHOWN ON PLANS, UNO. ALL FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE PROVIDED WITH INTEGRAL RED TEST BUTTON, UNO.		
SYMBOL	DESCRIPTION	REMARKS
	2' x 4' LIGHT FIXTURE	
	2' x 2' LIGHT FIXTURE	
	1' x 4' LIGHT FIXTURE	
	LINEAR STRIP LIGHTING FIXTURE	NOTE 1
	DOWNLIGHT	
	WALL WASH/ADJUSTABLE DOWNLIGHT - ARROW INDICATED DIRECTION OF BEAM	
	LINEAR LIGHT WALL MOUNTED FIXTURE	NOTE 1
	WALL SCONCE	NOTE 1
	TRACK HEAD	
	PENDANT	
	EXIT SIGN - SINGLE FACE	NOTE 1
	EXIT SIGN - DUAL FACE	NOTE 1
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK	NOTE 1
	SINGLE HEAD SITE AREA LUMINAIRE	
	DUAL HEAD SITE AREA LUMINAIRE	
	EXISTING SINGLE HEAD SITE AREA LUMINAIRE	
	EXISTING DUAL HEAD SITE AREA LUMINAIRE	
	BOLLARD	
	LANDSCAPE LUMINAIRE	
	WHERE SHOWN, INDICATES PANEL AND CIRCUIT SERVING ALL FIXTURES IN THE SAME ROOM.	
	TYPICAL FIXTURE EQUIPPED WITH EMERGENCY BATTERY BALLAST.	NOTE 2

LOW VOLTAGE SYMBOL SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS ALL WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO CENTER UNO.		
NOTES: 1. UNLESS OTHERWISE NOTED BY DRAWINGS OR SPECIFICATIONS, PROVIDE A 4 11/16" x 2 1/8" DEEP BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT WITH PULLSTRING STUBBED INTO NEAREST ACCESSIBLE CEILING. 2. UNLESS OTHERWISE NOTED BY DRAWINGS OR SPECIFICATIONS, PROVIDE A 2-GANG BOX WITH PARTITIONS, 2-GANG TILE RING, DUPLEX RECEPTACLE AND 3/4" EMPTY CONDUIT TO ABOVE CEILING. OWNER SHALL FURNISH AND INSTALL TV CONNECTOR, TC CABLE AND 2-GANG COVERPLATE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. 3. TOP OF CARD READER ACCESS CONTROLS SHALL NOT EXCEED 48" A.F.F.		
SYMBOL	DESCRIPTION	REMARKS
	TELEPHONE OUTLET, 18" AFF UNO/FLUSH IN FLOOR TELEPHONE OUTLET	NOTE 1
	DATA OUTLET, 18" AFF UNO/FLUSH IN FLOOR DATA OUTLET	NOTE 1
	COMBINATION TELEPHONE/DATA OUTLET, 18" AFF UNO/FLUSH IN FLOOR COMBINATION TELEPHONE/DATA OUTLET	NOTE 1
	WIRELESS ACCESS POINT, MOUNTED FLUSH IN CEILING UNO	
	TELEVISION OUTLET, 18" AFF UNO	NOTE 2
	CARD READER. JUNCTION BOX AND CONDUIT PER INSTALLER'S INSTRUCTIONS	NOTES 1 & 3
SUBSCRIPTS INDICATE THE FOLLOWING: OC - DEVICE MOUNTED OVER COUNTERTOP 48" - DEVICE MOUNTED AT 48" AFF. OTHER MOUNTING HEIGHTS AS INDICATED. H - MOUNT DEVICE HORIZONTALLY.		

POWER DISTRIBUTION SYMBOL SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS		
SYMBOL	DESCRIPTION	REMARKS
A-1,3,5	HOMERUN - TO CIRCUIT NO. 1,3,5 ON PANEL 'A'	
	FEEDER TAG. RE: ELECTRICAL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZE.	
	BRANCH CIRCUIT OR CONDUIT EXPOSED AND/OR SURFACE MOUNTED	
	BRANCH CIRCUIT OR CONDUIT UNDER FLOOR	
	JUNCTION BOX	
	MOTOR	
	MANUAL STARTER WITH THERMAL TRIP	
	DISCONNECT SWITCH	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	MOUNT AT 72" AFF TO CENTER
	SWITCHBOARD / DISTRIBUTION PANELBOARD, REFER TO SWITCHBOARD SCHEDULE OR RISER DIAGRAM	
	SURGE PROTECTIVE DEVICE. RE: SURGE PROTECTIVE DEVICE SCHEDULE FOR CONFIGURATION.	

FIRE ALARM SYMBOL SCHEDULE		
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS FURNISH AND INSTALL 3/4" EMPTY CONDUIT STUB-UPS FOR ALL WALL MOUNTED DEVICES.		
NOTES: 1. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF BOX. 2. TWO WAY COMMUNICATION CALL SYSTEM CALL BOX. EQUAL TO RATH CAT# 2100-95 8NSR. FLUSH MOUNT, STAINLESS STEEL FACEPLATE WITH HANDS FREE SPEAKERPHONE AND LED INDICATOR LIGHT TO INDICATE CALL STATUS. PROVIDE LIGHTED INSTRUCTIONAL WALL SIGN, RATH CAT#7049, AND TACTILE SIGN, RATH CAT# 7043. 3. TWO WAY COMMUNICATION CALL SYSTEM BASE STATION. EQUAL TO RATH MODEL 2500-16RF WITH PAINTED STEEL HOUSING. EMERGENCY HAND SET AND MINIMUM 4 HOUR BATTERY BACK-UP. PROVIDE AUTO-DIALER FOR OFF-SITE TWO WAY, PERSON TO PERSON VOICE COMMUNICATIONS. ENTIRE INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ADA COMPLIANT. PROVIDE RATH RF7700104 POWER SUPPLY FOR POWER TO CALL STATIONS. SUBMIT COMPLETE PRODUCT DATA AND WIRING DIAGRAMS. 4. FIRE ALARM PANEL WITH AUTO DIALER FOR OFF SITE MONITORING AND CONTROL. PROVIDE CONDUIT AND CABLING AS REQUIRED TO MONITOR TAMPER FLOW SWITCHES AND SUPERVISORY VALVES. COORDINATE EXACT QUANTITIES OF TAMPER FLOW SWITCHES AND SUPERVISORY VALVES WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION. PROVIDE 3/4" EMPTY CONDUIT TO TELEPHONE SERVICE AT COLUMN LINE. 5. COMBINATION CARBON MONOXIDE/120V SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE WITH BATTERY BACK-UP. INTERCONNECT ALL DETECTORS IN EACH UNIT.		
SYMBOL	DESCRIPTION	REMARKS
	FIRE ALARM CONTROL PANEL 48" AFF UNO	NOTES 1,4
	FIRE ALARM REMOTE ANNUNCIATOR PANEL 48" AFF UNO	NOTE 1
	FIRE ALARM SYSTEM SMOKE DETECTOR. MOUNT ON CEILING, UNO	
	120V SOUNDER BASE SMOKE DETECTOR WITH BATTERY BACK-UP	NOTE 5
	FIRE ALARM SYSTEM HEAT DETECTOR. MOUNT ON CEILING, UNO	
	LOW FREQUENCY AUDIBLE DEVICE	
	DUCT MOUNTED SMOKE DETECTOR	
	MAGNETIC DOOR HOLDER	
	FIREFIGHTER'S TELEPHONE JACK	
	FIRE ALARM SYSTEM "AREA OF RESCUE ASSISTANCE" TELEPHONE	
	TWO WAY COMMUNICATION CALL SYSTEM CALL BOX	NOTE 2
	TWO WAY COMMUNICATION CALL SYSTEM BASE STATION	NOTE 3

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

KEYNOTES - E3.01L

- OCCUPANCY SENSOR FOR LIGHTING CONTROLS. CONNECT OCCUPANCY SENSORS TOGETHER TO FORM ONE ZONE OF COVERAGE. LOCATE POWER PACK IN ACCESSIBLE SPACE. PROVIDE QUANTITY AND LOCATE SENSOR PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWING SHOWING THE MANUFACTURER'S RECOMMENDATIONS.
- DASHED LINES INDICATE PRIMARY DAY LIGHTING ZONES. THE LIGHTING FIXTURES WITHIN THE PRIMARY DAY LIGHTING ZONE ARE LESS THAN 150 WATTS COMBINED. THEREFORE, DAY LIGHTING CONTROLS ARE NOT REQUIRED PER THE INTERNATIONAL ENERGY CONSERVATION CODE, ARTICLE C405.2.4.
- DASHED LINES INDICATE SECONDARY DAY LIGHTING ZONES. THE LIGHTING FIXTURES WITHIN THE PRIMARY AND SECONDARY DAY LIGHTING ZONE ARE LESS THAN 300 WATTS COMBINED. THEREFORE, DAY LIGHTING CONTROLS ARE NOT REQUIRED IN THE SECONDARY DAY LIGHTING ZONE PER THE INTERNATIONAL ENERGY CONSERVATION CODE, ARTICLE C405.2.4.

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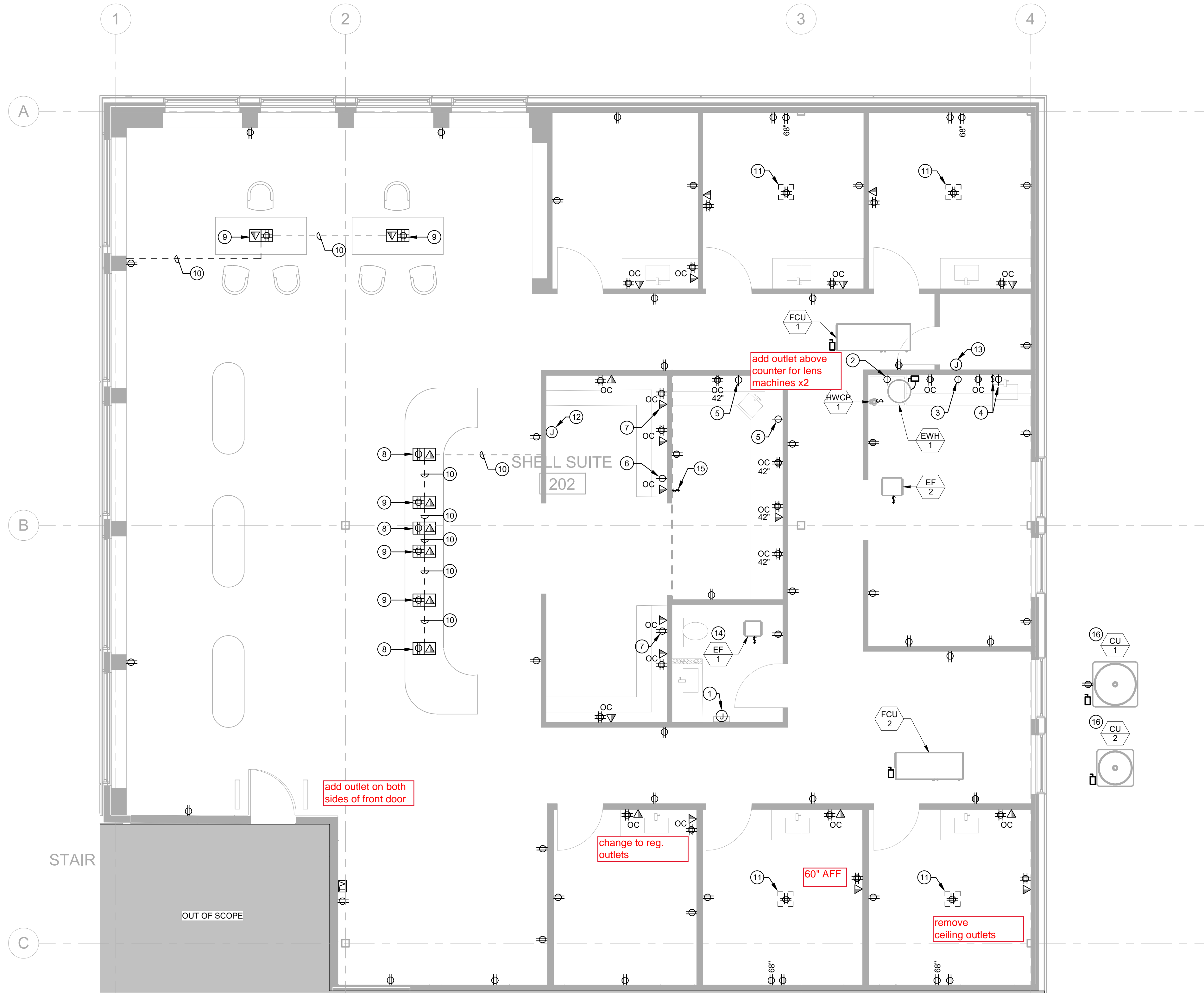
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ENLARGED VIEW PLAN - LIGHTING

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DEMO NOTE:
CONTRACTOR SHALL VERIFY DEMOLITION SCOPE AND ENSURE ALL MATERIALS TO BE MAINTAINED BY OWNER IN THIS TRADE ARE REMOVED FROM THIS SPACE AND DELIVERED TO THE OWNER PRIOR TO DEMOLITION.



1 ENLARGED VIEW PLAN - POWER
1/4" = 1'-0"

KEYNOTES - E3.01P

- 1 JUNCTION BOX FOR ELECTRIC HAND DRYER. COORDINATE EXACT MOUNTING LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE GFCI CIRCUIT BREAKER.
- 2 DEDICATED RECEPTACLE FOR REFRIGERATOR. MOUNT AT 36" AFF. PROVIDE GFCI CIRCUIT BREAKER.
- 3 SIMPLEX RECEPTACLE IN UPPER CABINET FOR MICROWAVE.
- 4 SIMPLEX RECEPTACLE BELOW SINK AND SWITCH ABOVE COUNTER TOP FOR DISPOSAL.
- 5 DEDICATED RECEPTACLE FOR LENS MACHINE. PROVIDE GFCI CIRCUIT BREAKER.
- 6 DEDICATED RECEPTACLE FOR PRINTER. MOUNT ADJACENT TO TEL/DATA OUTLET. OUTLETS SHALL BE MOUNTED AT SAME HEIGHT.
- 7 DEDICATED RECEPTACLE FOR LANDLINE PHONE.
- 8 PROVIDE HUBBELL 'SYSTEM ONE' 6" FIRE-RATED POKE-THROUGH #S1R8PTFIT. PROVIDE COVER #S1R6CVRBLK (BLACK); COORDINATE EXACT FINISH WITH ARCHITECT AND TENANT REPRESENTATIVE PRIOR TO ORDER. COORDINATE TELE/DATA REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF POKE-THROUGH WITH ARCHITECT AND TENANT REPRESENTATIVE PRIOR TO ROUGH-IN.
- 9 PROVIDE HUBBELL 'SYSTEM ONE' 6" FIRE-RATED POKE-THROUGH #S1R8PTFIT. PROVIDE COVER #S1R6CVRBLK (BLACK); COORDINATE EXACT FINISH WITH ARCHITECT AND TENANT REPRESENTATIVE PRIOR TO ORDER. COORDINATE TELE/DATA REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF POKE-THROUGH WITH ARCHITECT AND TENANT REPRESENTATIVE PRIOR TO ROUGH-IN.
- 10 PROPOSED ROUTING OF CONDUIT TO RISER POINT UP WALL ACCESSIBLE CEILING.
- 11 CEILING MOUNTED DEDICATED NEMA 5-20 QUADRUPEX RECEPTACLE FOR EQUIPMENT POWER. VERIFY EXACT LOCATION WITH ARCHITECT AND TENANT REPRESENTATIVE PRIOR TO ROUGH-IN.
- 12 JUNCTION BOX FOR INVENTORY CONTROL SYSTEM. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- 13 JUNCTION BOX FOR VACUUM CHARGING STATION. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- 14 INTERLOCK FAN WITH LIGHTS IN RESTROOM. PROVIDE RELAY AS REQUIRED SUCH THAT FAN SHALL RUN WHEN LIGHT IN ANY ROOM IS 'ON'. FAN SHALL BE PROVIDED WITH SEPARATE DISCONNECTING MEANS FROM LIGHTING CONTROL.
- 15 PROVIDE TOGGLE SWITCH CONTROL FOR EXHAUST FAN 'EF-2' ADJACENT TO ROOM LIGHTING SWITCH. ENGRAVE FACE PLATE TO READ 'FAN'. FAN SHALL BE PROVIDED WITH SEPARATE DISCONNECTING MEANS FROM LIGHTING CONTROL.
- 16 CONDENSING UNIT LOCATED ON GROUND. COORDINATE EXACT LOCATION WITH OWNER/LANDLORD. PROVIDE GFCI SERVICE RECEPTACLE WITHIN 25' OF ALL AIR-CONDITIONING EQUIPMENT IF NOT PRESENT. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

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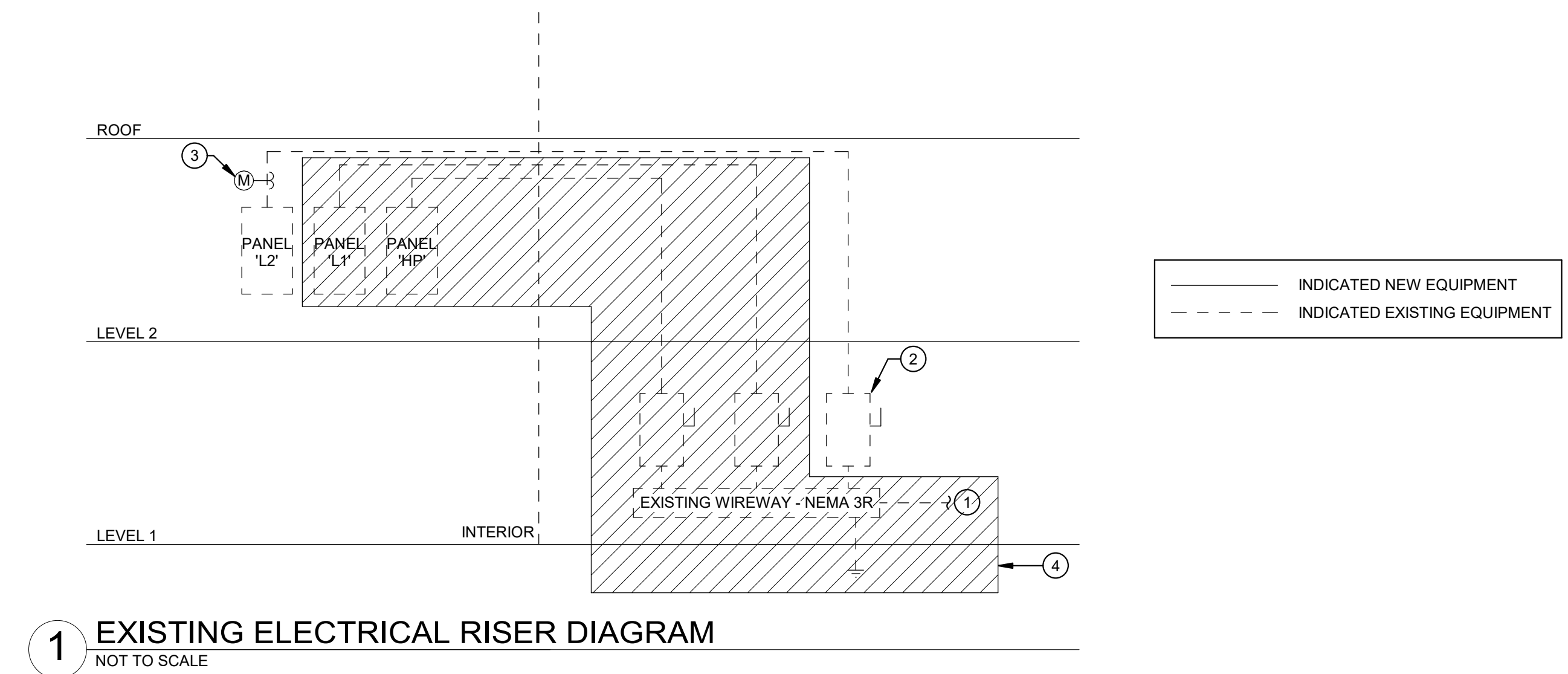
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ENLARGED VIEW PLAN - POWER

EXISTING PANEL: L2															
LOCATION: ELEC. 203				VOLTS: 120/208 Wye				A.I.C. RATING: EXISTING (14,000)				FULLY RATED			
FED FROM: UTILITY				PHASES: 3				MAINS TYPE: MLO							
MOUNTING: SURFACE				WIRE: 4				BUS RATING: 400 A							
ENCLOSURE: NEMA 1								MCB RATING: N/A							
NOTES: NEW WORK IS SHOWN BOLD AND EXISTING CONDITIONS ARE SHOWN ITALICIZED. CONTRACTOR SHALL INDICATE "SPARE" AT ALL CIRCUITS THAT ARE DEMOLISHED BACK TO THE PANEL AND PROVIDE A NEW, TYPE WRITTEN PANEL DIRECTORY.															
CKT	CIRCUIT DESCRIPTION	TRIP (AMPS)	POLES	A	B	C	A	B	C	POLES	TRIP (AMPS)	CIRCUIT DESCRIPTION	CKT		
1													2		
3													4		
5													6		
7													8		
9													10		
11													12		
13													14		
15													16		
17													18		
19													20		
21													22		
23													24		
25													26		
27													28		
29													30		
31													32		
33													34		
35													36		
37													38		
39													40		
41													42		
		PANEL TOTALS		A	B	C					KVA	AMPS			
TOTAL AMPS A-N:		0		0	0	0					0.00	0			
TOTAL AMPS B-N:		0								TOTAL CONNECTED:		0.00	0		
TOTAL AMPS C-N:		0								TOTAL DEMAND:		0.00	0		

* BREAKER SHALL BE GFCI PROTECTED

EQUIPMENT SCHEDULE								
SERVES	LOCATION	CIRCUIT NUMBER	ENCLOSURE TYPE	DISCONNECT RATING	VOLTAGE	POLES	FUSED	NOTES
CU-1	EXTERIOR		NEMA 3R	30A	208 V	3	No	
CU-2	EXTERIOR		NEMA 3R	30A	208 V	3	No	
EW-1	BREAKROOM		NEMA 1	30A	208 V	3	No	
FCU-1	CORRIDOR		NEMA 1	60A	208 V	3	No	
FCU-2	CORRIDOR		NEMA 1	60A	208 V	3	No	



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 ELECTRICAL SCHEDULES/ DIAGRAMS

SHEET
 E6.01

PIPE SCHEDULE table with columns: SYSTEM TYPE, PIPE SIZE, MATERIAL TYPE, FITTING TYPE, JOINT TYPE, INSULATION / JACKETING TYPE (CONCEALED, EXPOSED, JACKETING), NOTES.

- NOTES: 1. REFERENCE PIPE INSULATION / JACKETING SCHEDULE FOR INSULATION AND JACKETING TYPES. 2. PROVIDE PRODUCT LISTED OR ENGINEER PRE-APPROVED EQUAL, APPLIES TO ALL PRODUCTS LISTED IN SCHEDULE. 3. INSTALL ALL PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS. 4. ALL PIPING IS TO BE SUPPORTED PER ANSI B31.9, ASME B31.1, MSS SP-58 AND MSS SP-69. 5. DIELECTRIC UNIONS OR FLANGES ARE TO BE PROVIDED AND INSTALLED AT THE JOINT OF DISSIMILAR METALS. 6. CLEAN AND FLUSH ALL NEWLY INSTALLED PIPING AND STRAINER/FILTERS WITH SYSTEM APPROPRIATE MATERIAL PRIOR TO PUTTING SYSTEM INTO OPERATION. 7. FIRST TEN (10) FEET OF STORM, ROOF DRAIN AND OVERFLOW DRAIN RISER AND ALL HORIZONTAL RUNS AND DRAIN BODIES SHALL BE INSULATED WHEN LOCATED IN ABOVE SCHEDULE.

PIPE INSULATION / JACKET SCHEDULE

Table with columns: SYSTEM DESIGNATION, PRODUCTS, DESCRIPTION, K FACTOR, TEMPERATURE RANGE (MIN, MAX), NOTES. Rows include GF, CG, CF, ASJ, PVC, ALJ.

- NOTES: 1. K-FACTOR UNITS ARE BTU*IN/HR*SQFT*DEG. F. TESTED AT 75 DEG. F. 2. PROVIDE PRODUCT LISTED OR ENGINEER PRE-APPROVED EQUAL, APPLIES TO ALL PRODUCTS LISTED IN SCHEDULE. 3. INSTALL ALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS. 4. ALL INSULATING MATERIALS SHALL CONFORM TO ASTM E84, HAVING A MAXIMUM FLAME SPEED RATING OF 25 AND A MAXIMUM SMOKE DEVELOPMENT RATING OF 50. 5. FURNISH AND INSTALL PIPE LABELS ON ALL PIPING PER ASME AND ANSI A13.1.

FIRE PROTECTION SCHEDULE

Table with columns: SYSTEM NAME, ABBREVIATION, LINETYPE. Rows: FIRE PROTECTION WATER SUPPLY (F), AUTOMATIC FIRE SPRINKLER (SP).

GENERAL FIRE PROTECTION NOTES

- 1. INSTALL FIRE SPRINKLER SYSTEMS IN ACCORDANCE WITH NFPA 13 2019 EDITION, IFC 2021 EDITION, AND LOCAL AMENDMENTS. 2. THE BUILDING SHALL BE FULLY PROTECTED. 3. A CONTRACTOR PROPERLY LICENSED BY THE STATE FIRE MARSHAL MUST DO THE FIRE PROTECTION WORK. 4. THE LICENSED CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE AUSTIN FIRE DEPT. FOR REVIEW AND APPROVAL. AFTER THE BUILDING PERMIT IS APPROVED, THESE SHOP DRAWINGS MUST BE APPROVED BY THE AUSTIN FIRE DEPT. PRIOR TO THE CONTRACTOR BEGINNING THE WORK, UNLESS OTHERWISE APPROVED. 5. AREAS WITH DROP CEILINGS SHALL UTILIZE A CONCEALED PENDANT SPRINKLER HEAD. AREAS WITH NO CEILINGS SHALL UTILIZE AN UPRIGHT PENDANT.

GENERAL PLUMBING NOTES

- 1. COMPLETED INSTALLATION SHALL MEET REQUIREMENTS OF 2021 EDITION OF UNIFORM PLUMBING CODE AND ALL LOCAL CODES. 2. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON DRAWINGS WITH ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. 3. CONTRACTOR SHALL VISIT JOB SITE AND BECOME COMPLETELY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID. NO ADDITIONAL FUNDS WILL BE APPROVED DUE TO CONTRACTORS LACK OF FULL KNOWLEDGE OF EXISTING CONDITIONS. 4. COMPLETE INSTALLATION SHALL MEET REQUIREMENTS OF CURRENT EDITION OF UNIFORM BUILDING, MECHANICAL, PLUMBING CODES AND THEIR LOCAL AMENDMENTS OF STATE AND LOCAL MECHANICAL PLUMBING AND BUILDING CODES, AND OF SPECIAL CODES HAVING JURISDICTION. 5. CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS, FURNISHING CUT-OFF VALVES, P-TRAPS, PRESSURE RELIEF VALVES AND PIPING AS REQUIRED. 6. COORDINATE WATER, WASTE, STORM DRAIN, VENT AND SPRINKLER PIPING WITH OTHER TRADES TO AVOID SPACING OR ROUTING CONFLICTS. 7. PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED AT A MINIMUM OF 12'-0" FROM HVAC OUTSIDE AIR INTAKES OR OPERABLE WINDOWS. 8. FURNISH AND INSTALL DEEP SEAL TRAPS ON FLOOR DRAINS NOT SPECIFIED TO BE PROVIDED WITH AN AUTOMATIC TRAP PRIMER. 9. PENETRATIONS THROUGH PARTITIONS AND FLOORS SHALL BE SLEEVED AND PATCHED TO MAINTAIN PARTITION AND FLOOR RATINGS. 10. DRAWINGS ARE SCHEMATIC AND ARE NOT TO BE SCALED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH ALL OTHER TRADES.

PLUMBING SYMBOLS SCHEDULE

Table of plumbing symbols including: CONTINUATION, SINGLE LINE; DIRECTION OF FLOW; RISER DESIGNATION; BLIND FLANGE; ELBOW, TURN-DOWN; P-TRAP; TEE, OUTLET DOWN; UNION; FLANGE JOINT; CLEANOUT FITTING; FLOOR CLEANOUT; YARD CLEANOUT; DOUBLE CLEANOUT; BALL JOINT; REDUCER, CONCENTRIC; ICE MAKER OUTLET BOX; WASHER MACHINE UTILITY BOX; WALL HYDRANT / HOSE BIBB; CONNECT TO EXISTING.

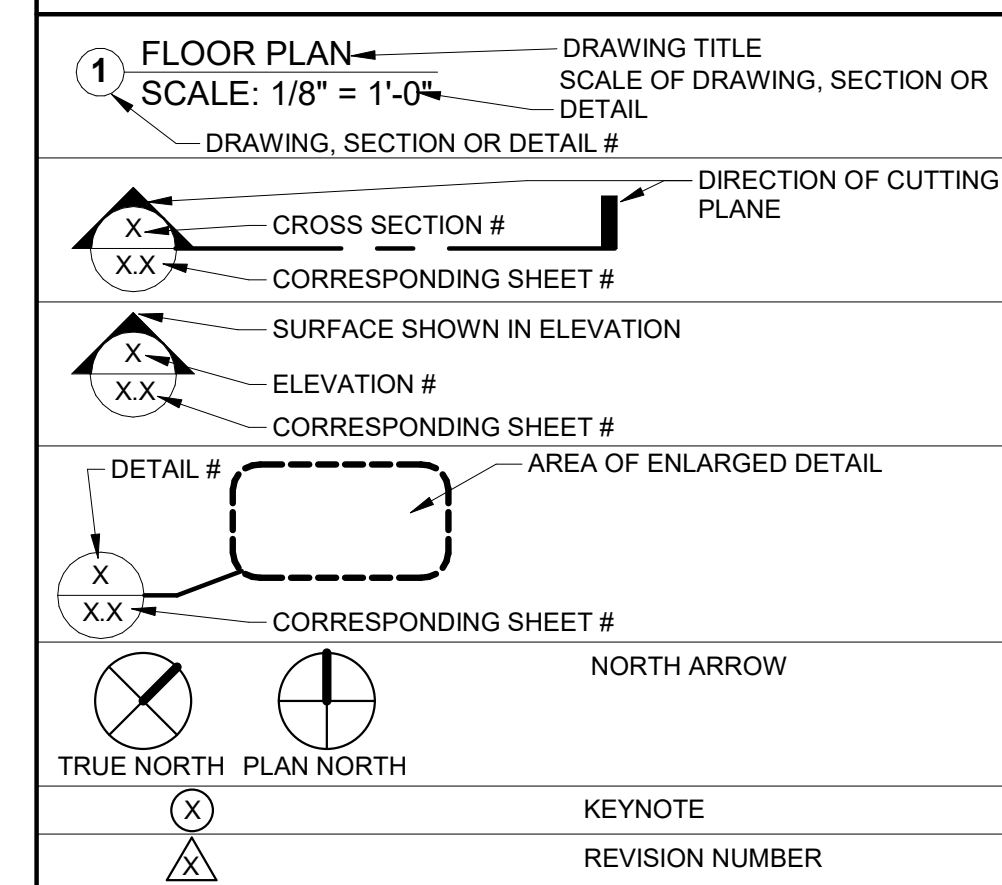
PIPING SPECIALTIES

Table of piping specialties including: AIR VENT; ALIGNMENT GUIDE; AQUASTAT GUIDE; PIPE ANCHOR; FLEX CONNECTION; FLOW SWITCH; FLOW METER, INSERTION; FLOW METER, VENTURI; METER, GAS; METER, WATER; PRESSURE GAUGE & COCK; PRESSURE REGULATOR; PRESSURE SWITCH; PUMP; STEAM TRAP; STRAINER, WYE; STRAINER W/ BLOW DOWN; TEST PLUG; THERMOMETER; THERMOMETER IN WELL; THERMOMETER WELL ONLY; TRAP PRIMER (PLAN VIEW); TRAP PRIMER (RSIER DIAGRAM); WATER HAMMER ARRESTER; VACUUM BREAKER.

PIPING SYSTEMS SCHEDULE

Table of piping systems including: WATER (DOMESTIC COLD WATER, DOMESTIC HOT WATER, NON-POTABLE WATER, DE-IONIZED WATER, STORM DRAIN, ROOF DRAIN, GREASE WASTE, ACID WASTE, INDIRECT DRAIN, CONDENSATE DRAIN, VENT, GREASE VENT, ACID VENT, CONDENSATE WASTE, COMPRESSED AIR, MEDICAL COMPRESSED AIR, OXYGEN, VACUUM, NITROGEN, NITROUS OXIDE, CARBON DIOXIDE, WASTE ANESTHETIC GAS DISPOSAL, NATURAL GAS - LOW PRESSURE, NATURAL GAS - MEDIUM PRESSURE, NATURAL GAS - HIGH PRESSURE, LIQUID PROPANE, LOW PRESSURE STEAM, MEDIUM PRESSURE STEAM, HIGH PRESSURE STEAM); DRAINS & VENTS; AIR / GASES & VACUUM; STEAM.

GENERAL SYMBOLS



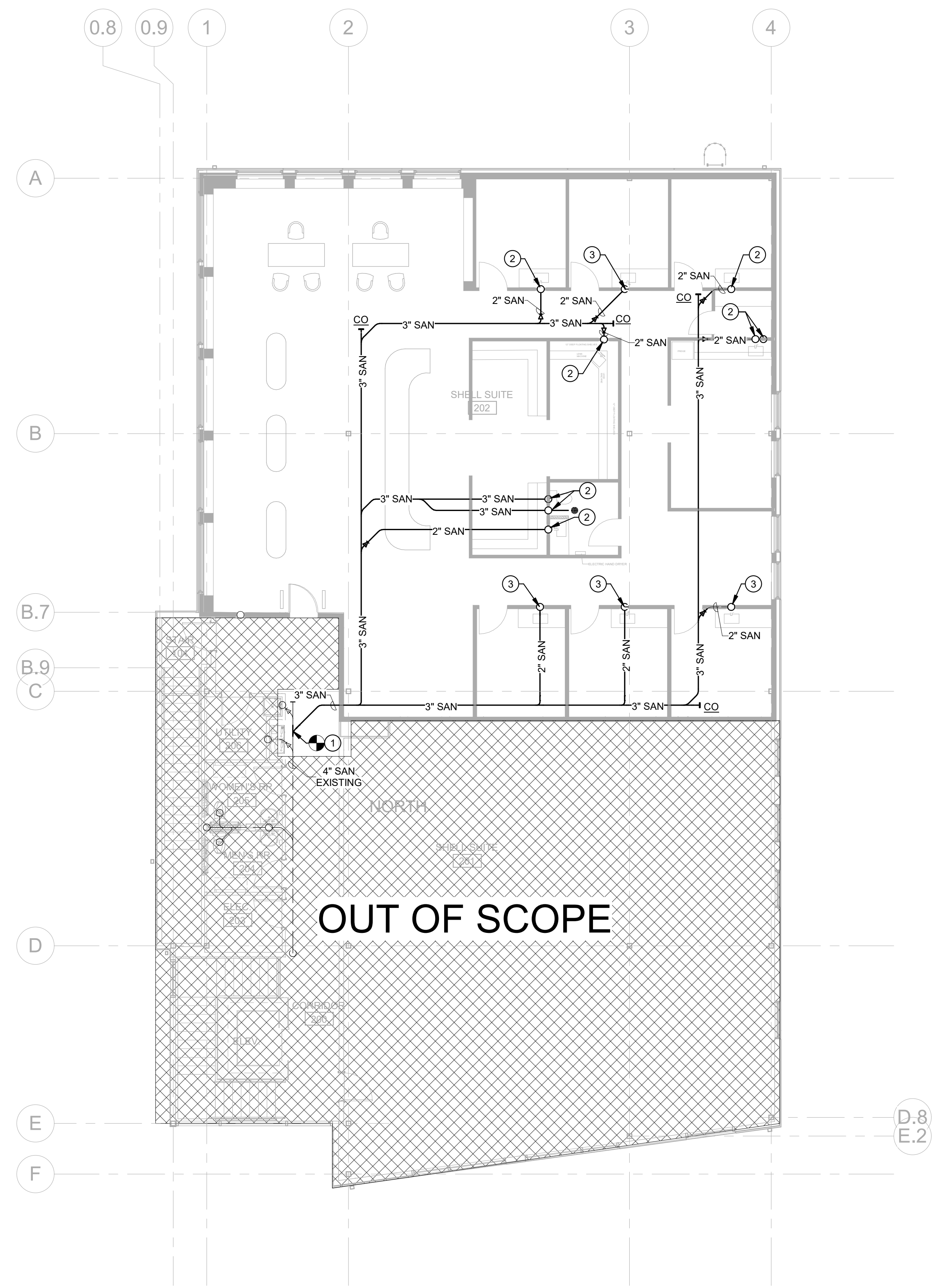
VALVES SCHEDULE

Table of valve symbols including: BALL, GATE, BUTTERFLY, BALANCING, GLOBE, THREE WAY VALVE, PLUG, CHECK VALVE, GAS COCK, NEEDLE VALVE, PRESSURE REDUCING (FLAG POINTS TOWARDS LOW PRESSURE), BACK FLOW PREVENTER DOUBLE CHECK ASSEMBLY, BACK FLOW PREVENTER REDUCED PRESSURE ZONE TYPE, PRESSURE RELIEF, PRESSURE-TEMPERATURE RELIEF, OUTSIDE STEM & YOKE (OS&Y), MOTOR ACTUATOR, SOLENOID ACTUATOR, PNEUMATIC ACTUATOR.

Project information including: 90% CD PROGRESS, 12/05/2023, FIRM NO. F-15085, DATE, NO., REVISION, and WGI logo with address: 4700 MUELLER BOULEVARD, SUITE 300, AUSTIN, TEXAS, 78723.

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6707 RIVERSIDE DRIVE, AUSTIN, TX 78714 PLUMBING GENERAL NOTES & SYMBOLS



1 OVERALL LEVEL 2 - UNDERFLOOR PLUMBING
1/8" = 1'-0"

NEW CONSTRUCTION LEGEND	
	EXISTING TO REMAIN
	EXISTING TO REMAIN DCW
	EXISTING TO REMAIN DHW
	EXISTING TO REMAIN VENT
	NEW CONSTRUCTION

- GENERAL PLUMBING NOTES**
- REFER TO PLUMBING RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON THIS PLAN AND ADDITIONAL INFORMATION.
 - INSTALL ISOLATION VALVES IN ACCESSIBLE LOCATION.
 - SANITARY SHOWN ON THIS SHEET IS UNDERSLAB. COORDINATE ALL CUTTING/PATCHING REQUIRED WITH GENERAL CONTRACTOR.

- KEYNOTES - P2.01**
- CONNECT SANITARY TO EXISTING SANITARY MAIN. COORDINATE EXACT LOCATION IN FIELD.
 - SANITARY DOWN FROM LEVEL ABOVE.
 - SANITARY DOWN FROM LEVEL ABOVE. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURAL BEAMS.

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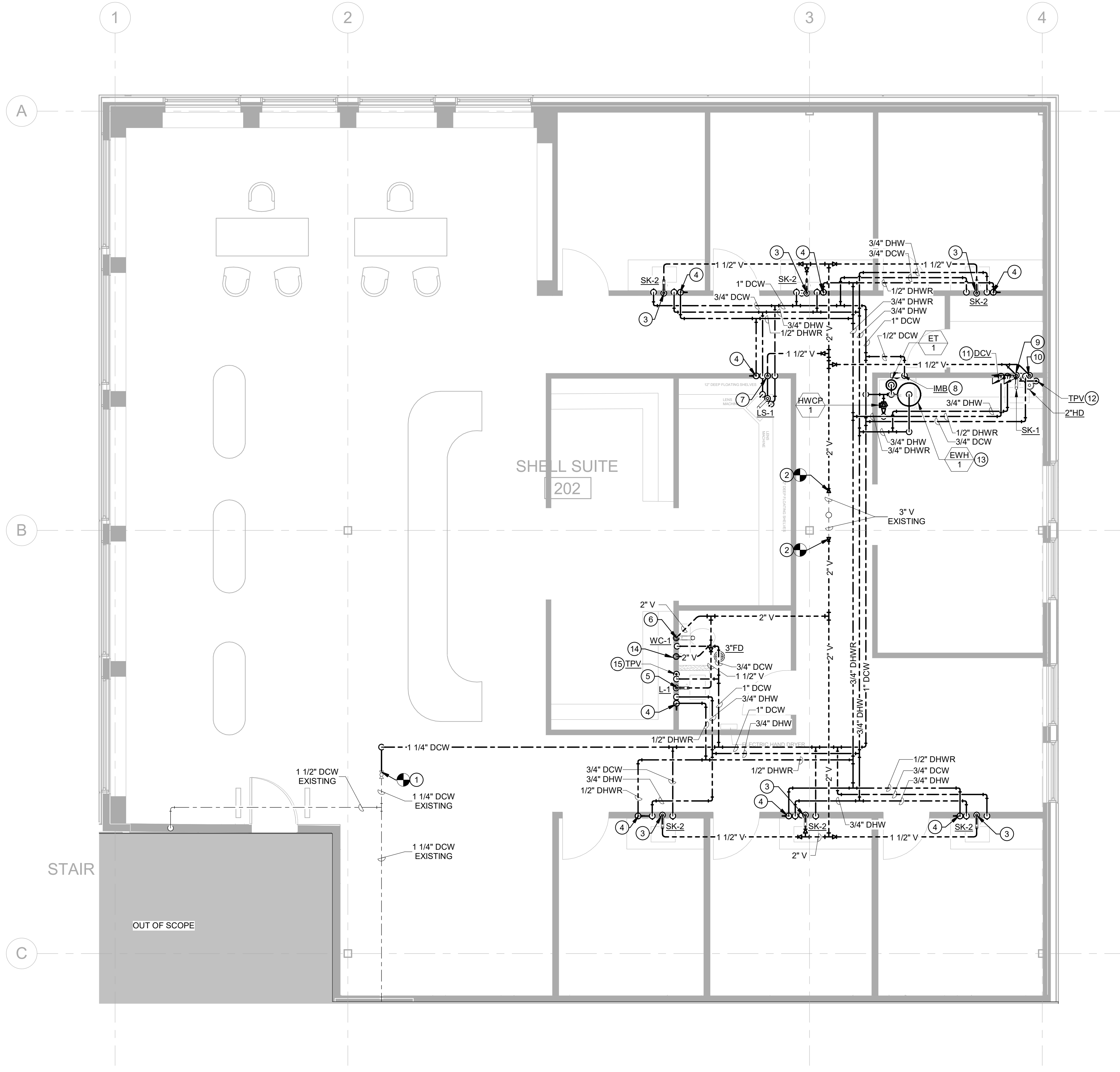
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OVERALL LEVEL 2 - PLUMBING

SHEET
P2.01



1 ENLARGED VIEW PLAN - PLUMBING
 1/4" = 1'-0"

NEW CONSTRUCTION LEGEND	
	EXISTING TO REMAIN
	EXISTING TO REMAIN DCW
	EXISTING TO REMAIN DHW
	EXISTING TO REMAIN VENT
	NEW CONSTRUCTION

- GENERAL PLUMBING NOTES**
- REFER TO PLUMBING RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON THIS PLAN AND ADDITIONAL INFORMATION.
 - INSTALL ISOLATION VALVES IN ACCESSIBLE LOCATION.
 - SANITARY SHOWN ON THIS SHEET IS UNDERSLAB. COORDINATE ALL CUTTING/PATCHING REQUIRED WITH GENERAL CONTRACTOR.

- KEYNOTES - P3.01**
- CONNECT DCW TO EXISTING SHUT-OFF VALVE. COORDINATE EXACT LOCATION IN FIELD.
 - CONNECT VENT TO EXISTING VENT MAIN PIPING. COORDINATE EXACT LOCATION IN FIELD.
 - 3/4" DCW AND 3/4" DHW DOWN TO SINK. 1-1/2" VENT UP AND 2" SANITARY DOWN FROM SINK. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO SINK.
 - PROVIDE SHUT-OFF, CHECK VALVE AND BALANCING VALVE ON DHWR AT CONNECTION TO VERTICAL WITHIN 2 FEET OF FIXTURE.
 - 3/4" DCW AND 3/4" DHW DOWN TO LAVATORY; 2" VENT UP AND 2" SANITARY DOWN FROM LAVATORY TO UNDERFLOOR. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO WATER CLOSET.
 - 3/4" DCW DOWN. 2" VENT AND 3" SANITARY FROM WATER CLOSET. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO WATER CLOSET.
 - 3/4" DCW AND 3/4" DHW DOWN TO LAB SINK. 1-1/2" VENT UP AND 2" SANITARY DOWN FROM LAB SINK. PROVIDE 1/2" DCW TO LAB SINK CONNECTION. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO LAB SINK.
 - 1/2" DCW DOWN TO IMB. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTIONS TO ICE MAKER BOX.
 - 3/4" DCW AND 3/4" DHW DOWN TO SINK. 1-1/2" VENT UP AND 2" SANITARY DOWN FROM SINK. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO SINK. PROVIDE 1/2" DCW FEED OFF SINK FEED TO TRAP PRIMER VALVE AND DCV UNDER SINK.
 - 1-1/2" UP FROM HUB DRAIN AND 2" SANITARY DOWN TO BELOW. PROVIDE ALL FITTINGS NECESSARY FOR CONNECTION TO HUB DRAIN.
 - PROVIDE 1/2" DCW FEED OFF SINK FEED TO COFFEE MAKER. ROUTE WITHIN CABINETS. PROVIDE WITH 1/2" DCV (WATTS #LF-007 OR EQUAL) PRIOR TO CONNECTION.
 - PROVIDE 1/2" DCW DOWN TO TPV MOUNTED UNDER SINK COUNTER. ROUTE 1/2" DCW (PEX TUBING) TO HUB DRAIN.
 - SECURELY SUSPEND WATER HEATER FROM STRUCTURE ABOVE. ROUTE 1/2" DCW (PEX TUBING) TO HUB DRAIN.
 - VENT UP TO ABOVE CEILING CAVITY. SANITARY DOWN TO LEVEL BELOW.
 - PROVIDE 1/2" DCW DOWN TO TPV MOUNTED UNDER LAVATORY COUNTER. ROUTE 1/2" DCW (PEX TUBING) TO FLOOR DRAIN.

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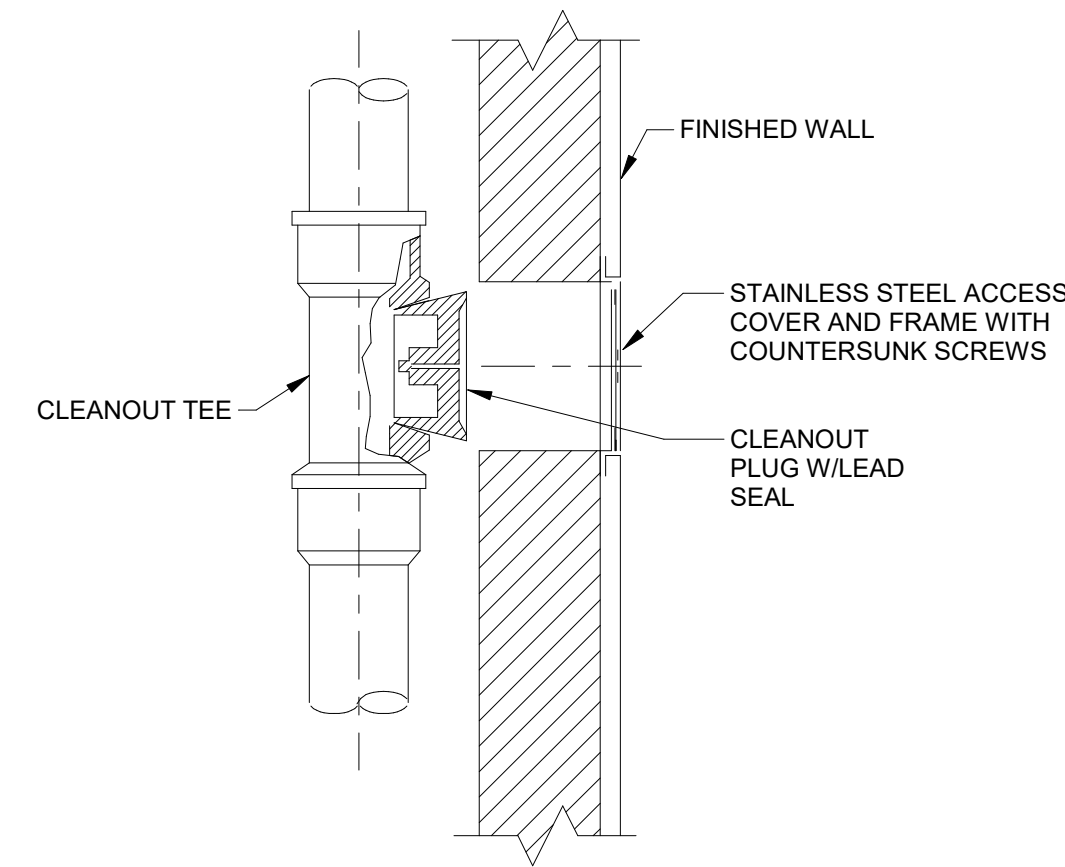
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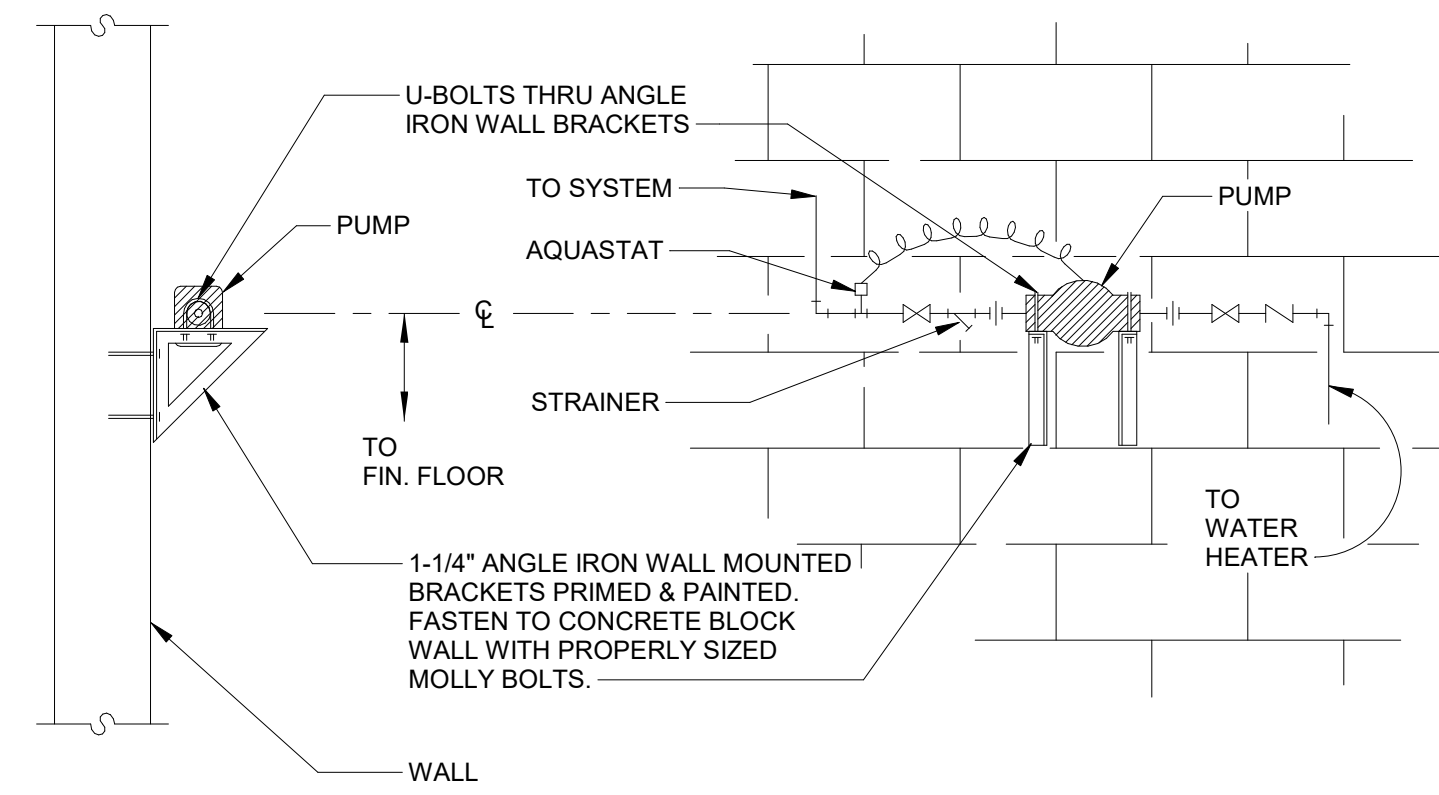
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ENLARGED VIEW PLAN - PLUMBING

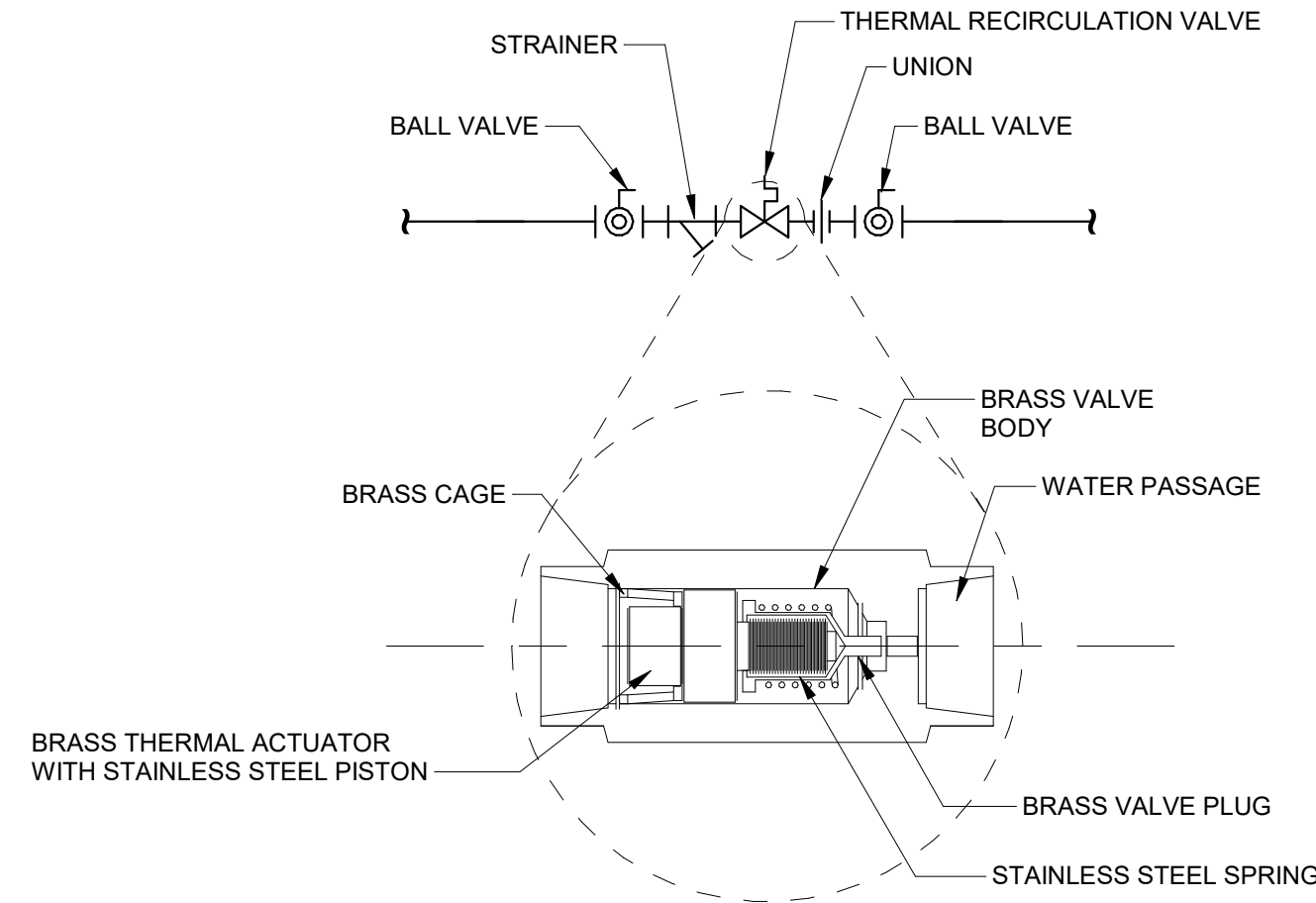


1 WALL CLEANOUT DETAIL
NOT TO SCALE

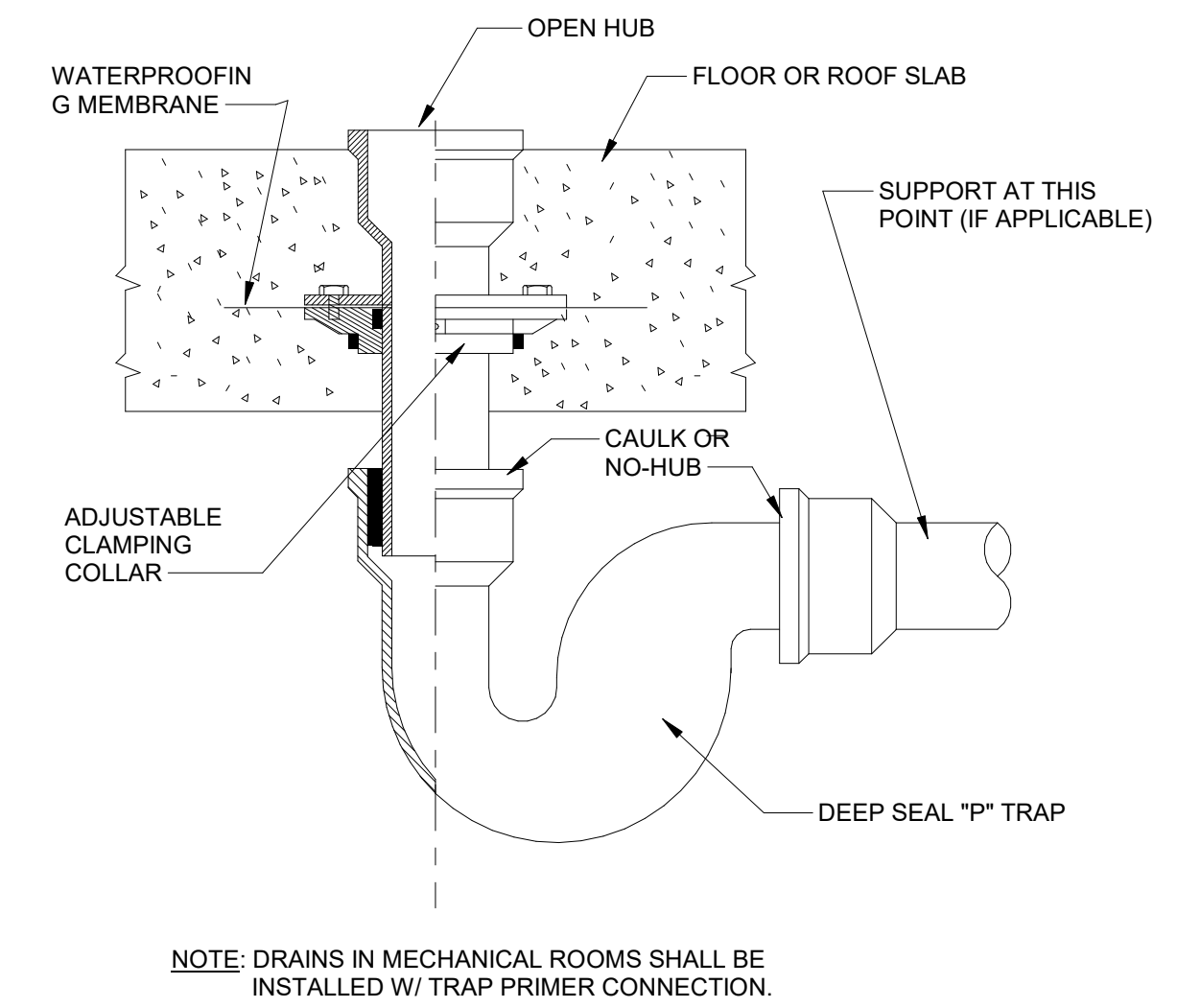


SECTION ELEVATION

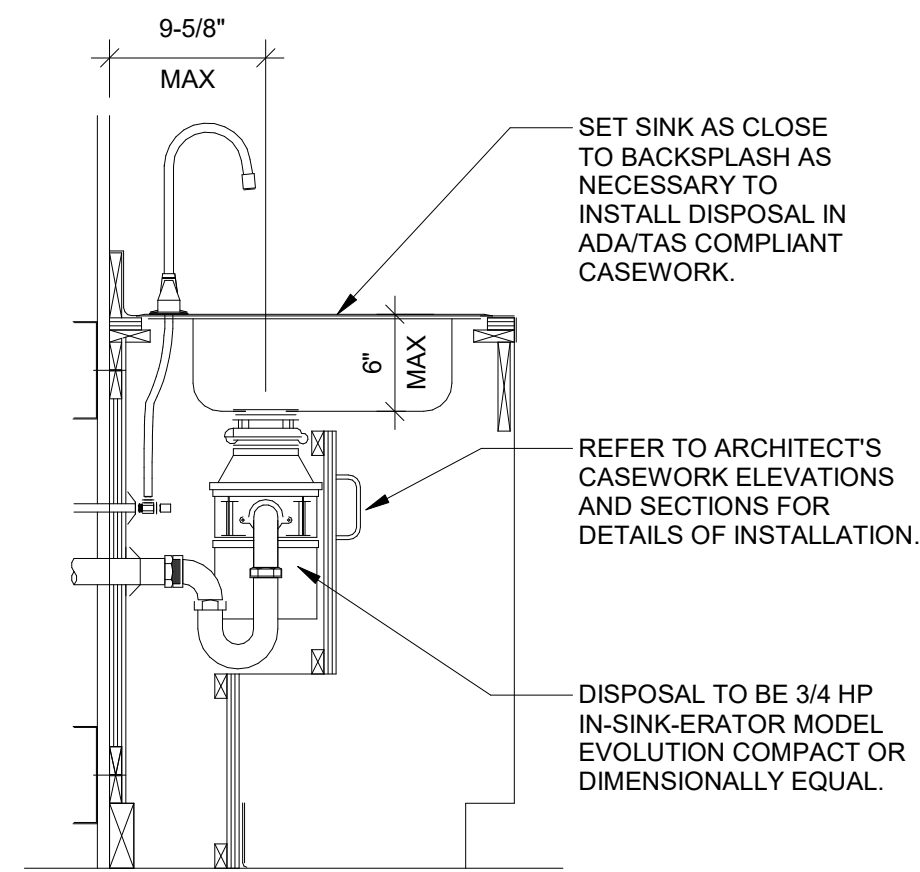
2 HW CIRC. PUMP MOUNTING DETAIL
NOT TO SCALE



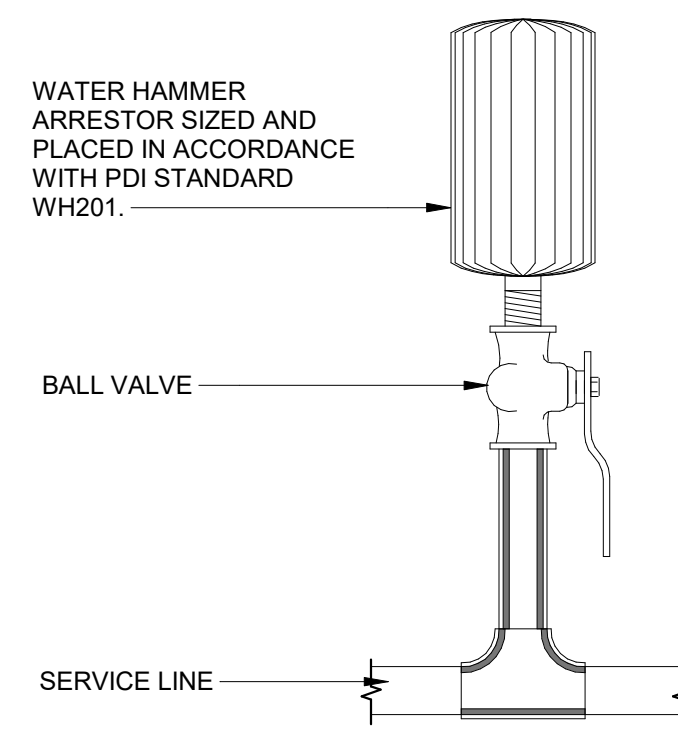
3 THERMAL RECIRCULATION VALVE ASSEMBLY
NOT TO SCALE



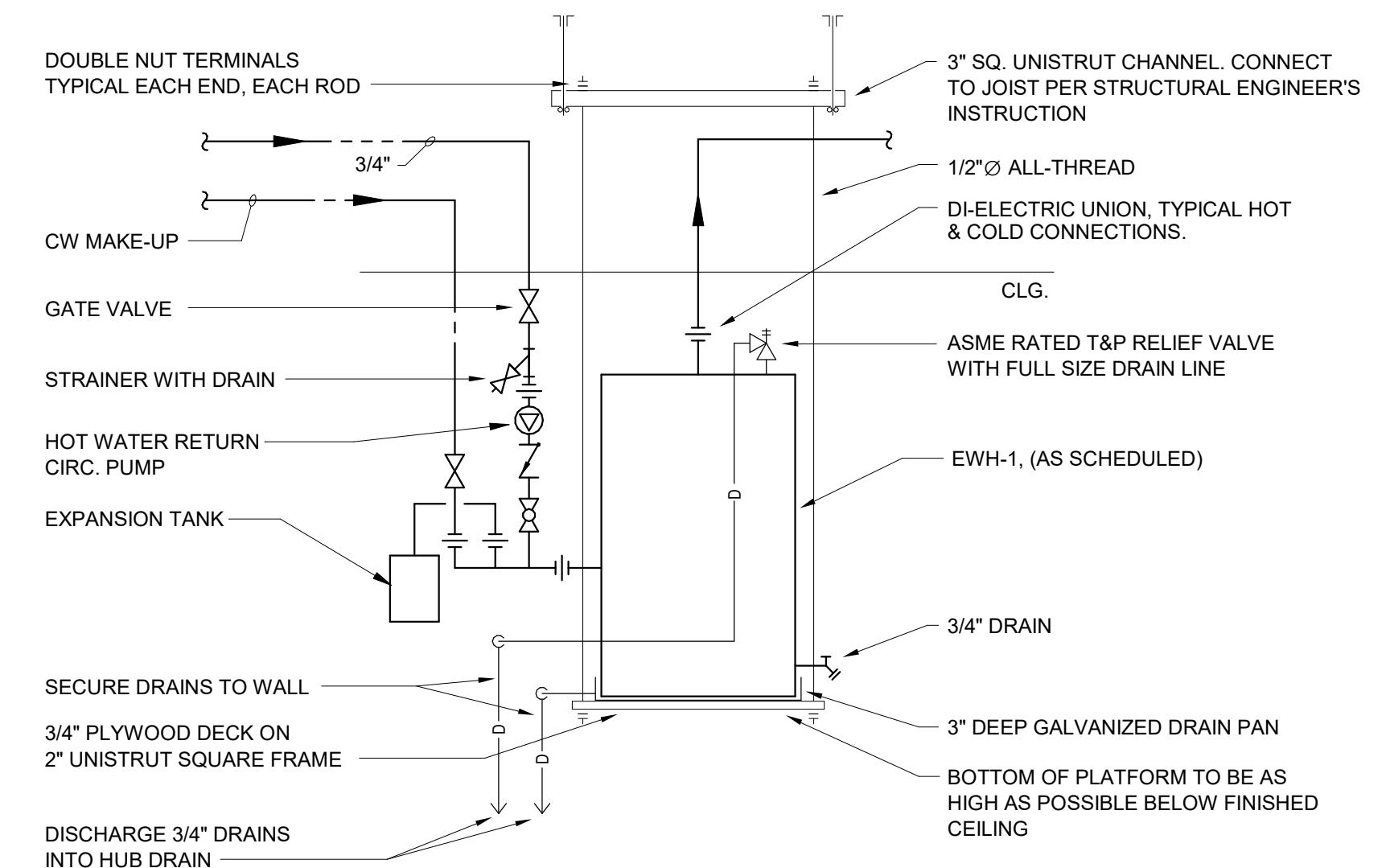
4 HUB DRAIN DETAIL
NOT TO SCALE



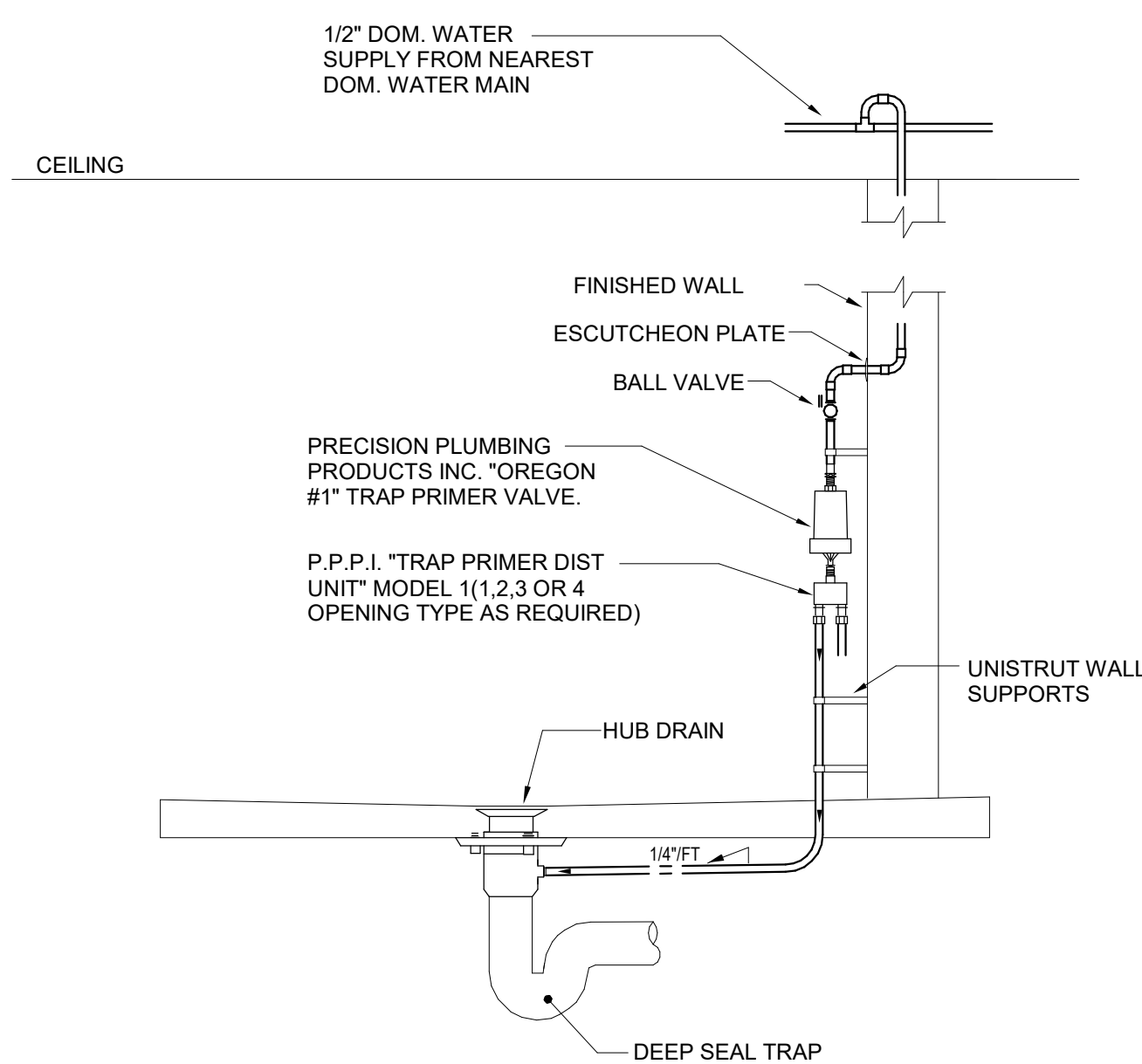
5 ADA/TAS COMPLIANT SINK & DISPOSAL DETAIL
NOT TO SCALE



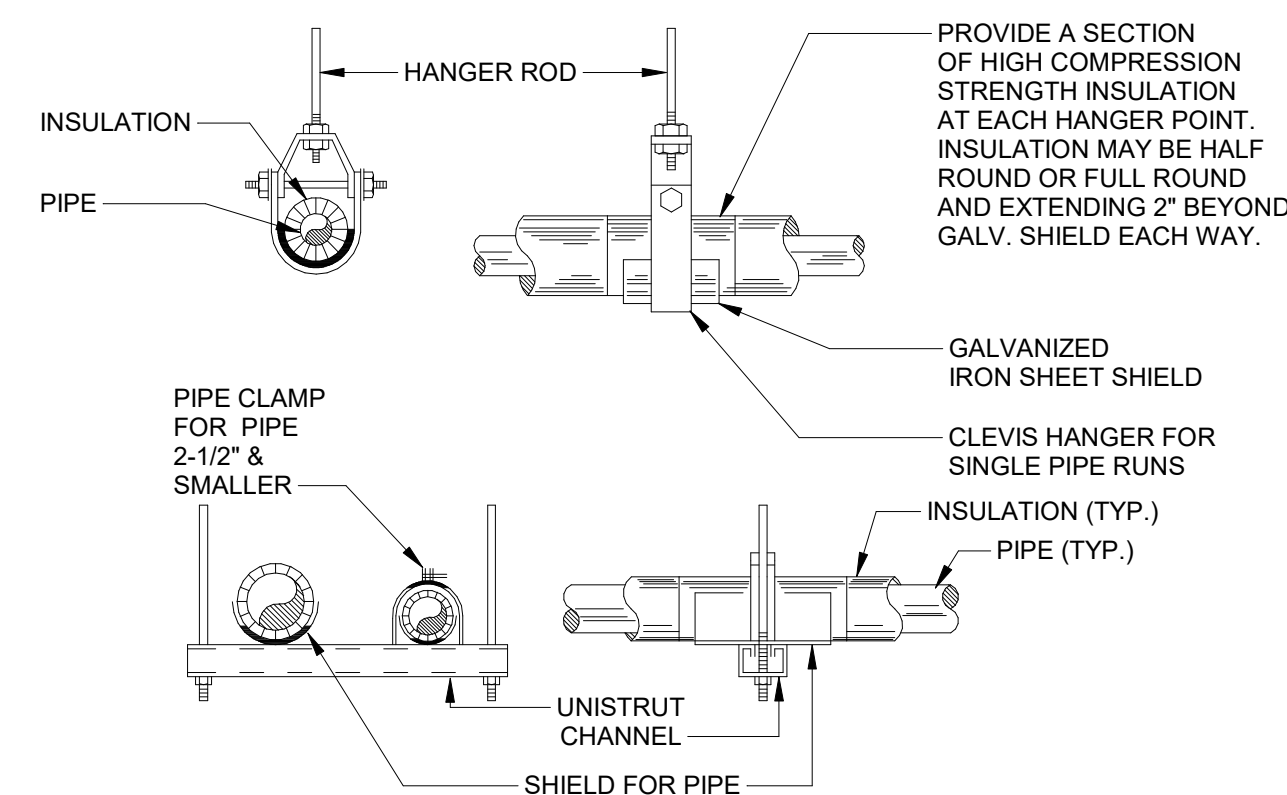
6 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



7 SUSPENDED WATER HEATER DETAIL WITH CIRC
NOT TO SCALE



8 TRAP PRIMER (EXPOSED) DETAIL
NOT TO SCALE



9 PIPING HANGERS AND SUPPORTS DETAIL
NOT TO SCALE

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PLUMBING DETAILS

PLUMBING FIXTURE SCHEDULE										
MARK	ITEM	MANUFACTURER	MODEL	GPM	WASTE (IN.)	VENT (IN.)	CW (IN.)	HW (IN.)	DESCRIPTION	
2*HD	OPEN HUB DRAIN	MIFAB	F1780	N/A	2	1-1/2	N/A	N/A	LACQUERED CAST IRON INDIRECT WASTE FUNNEL. PROVIDE WITH MIFAB DEEP SEAL TRAP MI-950 AND MIFAB'S M-500 SERIES TRAP SEAL PRIMER.	
3*FD	FLOOR DRAIN	MIFAB	F1100-C	N/A	3	2	N/A	N/A	LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, CAST IRON MEMBRANE CLAMP RING WITH PRIMARY AND SECONDARY WEEPHOLES FOR WATERPROOFING MEMBRANE, AND STANDARD SATIN FINISHED NICKEL BRONZE STRAINER WITH VANDAL RESISTANT STAINLESS STEEL ALL ON KEY SCREWS. PROVIDE WITH TRAP PRIMER CONNECTION.	
IMB	ICE MAKER BOX	IPS - WATERTITE	AB9700HA	N/A	N/A	N/A	1/2	N/A	ICE MAKER SUPPLY BOX WITH INTEGRAL HAMMER ARRESTOR AND QUARTER TURN VALVE. SNAP-ON FACEPLATE TO ACCOMMODATE UP TO 3/4-INCH DRYWALL.	
L-1	COUNTERTOP LAVATORY	MISENO	MN01812RUBWH	1.2	2	1-1/2	1/2	1/2	UNDERMOUNT SINK WITH REAR DRAIN LOCATION WITH INTEGRATED OVERFLOW, KILN FORGED AND FINISHED WITH AN ULTRA-TOUGH GLAZE RESULTING IN A NON-POROUS, DURABLE, CHIP RESISTANT SINK; FAUCET: MOEN '6221EWBG' SINGLE HANDLE HIGH ARC BATHROOM FAUCET, TOUCHLESS WAVE SENSOR AND HANDLE, LEVER STYLE HANDLE, INSTALLED ON RIGHT HAND SIDE ONLY, POWERED BY 6 AA BATTERIES (INCLUDED), METAL CONSTRUCTION, BRUSHED GOLD FINISH, FLOW IS LIMITED TO 1.2 GPM MAX. AT 80 PSI. CHROME PLATED ECUTCHEONS AT WALL PENETRATION. PROVIDE BELOW-DECK MIXING VALVE WITHIN CABINETY; WATTS SERIES #LFUSG-B (OR EQUAL), ASSE 1070 COMPLIANT.	
LS-1	LAB SINK	STERLING	B153-1	1.5	2	1-1/2	1/2	1/2	TOP-MOUNT 15"X15"X5-1/2" ONE FAUCET HOLE 20-GAUGE STAINLESS STEEL SINK WITH LUSTER FINISH. FAUCET: OLYMPIA 'ELITE' B-8180 TWO HANDLE BAR FAUCET, CHROME FINISH, ADA WRIST BLADE HANDLES, GOOSENECK SPOUT SWIVEL 360 DEGREE, WASHERLESS CARTRIDGE OPERATION WITH 1.5 GPM FLOW RATE. PROVIDE WITH OLYMPIA 'ACS-300-100' STAINLESS STEEL DUO BASKET STRAINER, CHROME PLATED ECUTCHEONS AT WALL PENETRATION. PROVIDE BELOW-DECK MIXING VALVE WITHIN CABINETY; WATTS SERIES #LFUSG-B (OR EQUAL), ASSE 1070 COMPLIANT.	
SK-1	UNDERMOUNT SINK	BLANCO	522414	1.8	2	1-1/2	1/2	1/2	23-7/16"X17-3/4" SINGLE BOWL UNDERMOUNT SINK MADE OF SILGRANIT, PREMIUM GRANITE COMPOSITE, REAR-POSITIONED DRAIN LOCATION, WHITE FINISH, PROVIDE WITH BLANCO '441091' 3-1/2" BASKET STRAINER AND SINK FLANGE; FAUCET: DELTA 'ESSA' 9113-BL-DST, MATTE BLACK FINISH, TWO-FUNCTION WAND, AERATED STREAM OR SPRAY WITH DUAL INTEGRAL CHECK VALVES IN SPRAYER, SPOUT ROTATES 360° WITH RED/BLUE INDICATOR MARKINGS, DIAMOND COATED CERAMIC CARTRIDGE, MAXIMUM 1.8 GPM., PROVIDE WITH INSINKERATOR 'BADGER 5XP' WITH POWER CORD, 3/4HP GARBAGE DISPOSER 120V/1PH. CHROME PLATED ECUTCHEONS AT WALL PENETRATION. PROVIDE BELOW-DECK MIXING VALVE WITHIN CABINETY; WATTS SERIES #LFUSG-B (OR EQUAL), ASSE 1070 COMPLIANT.	
SK-2	UNDERMOUNT SINK	AMERICAN STANDARD	0610.000.020	1.2	2	1-1/2	1/2	1/2	RECTANGULAR UNDER MOUNT SINK, MADE FROM VITREOUS CHINA, UNGLAZED RIM WITH FRONT OVERFLOW, FAUCET: DELTA 'TRINISC' 559LF-BLMPU SINGLE HANDLE FAUCET, MATTE BLACK FINISH, SOLID METAL BODY, DIAMOND COATED CERAMIC CARTRIDGE, MODELS HAVE METAL DRAIN WITH PUSH POP-UP TYPE FITTING WITH PLATED FLANGE AND STOPPER, NO LIFT ROD, MAX. FLOW RATE 1.2 GPM. CHROME PLATED ECUTCHEONS AT WALL PENETRATION. PROVIDE BELOW-DECK MIXING VALVE WITHIN CABINETY; WATTS SERIES #LFUSG-B (OR EQUAL), ASSE 1070 COMPLIANT.	
TPV	TRAP PRIMER PO-500	PRECISION PLUMBING PRODUCTS	PO-500	N/A	N/A	N/A	1/2	N/A	DIAPHRAGM OPERATED PRIMER, AUTOMATIC ACTIVATION WITH A PRESSURE DROP OF 10 PSIG AND HAS AN OPERATING RANGE OF 20 TO 80 PSIG.	
WC-1	FLOOR MOUNTED WATER CLOSET	DURAVIT	219501.00U3	1.28 GPF	3	2	1/2	N/A	ONE PIECE RIMLESS TOILET, WATERSENSE LISTED, SYPHONIC, 12" ROUGH-IN, VERTICAL OUTLET, 1.28 GPF., WITH SINGLE FLUSH MECHANISM WITH SIDE LEVER LEFT. PROVIDE WITH DURAVIT TOILET SEAT AND COVER '0025290000' REMOVABLE, ELONGATED, HINGES STAINLESS STEEL, WITH SLOW CLOSE.	

HOT WATER CIRCULATION PUMP SCHEDULE												
MARK	SERVICE	TYPE	MANUFACTURER	MODEL	PUMP FLOW (GPM)	PUMP HEAD (FTHD)	PUMP POWER (HP)	PUMP SPEED (RPM)	ELECTRICAL		REMARKS	
									VOLTAGE	PHASE		
HWCP 1	DOMESTIC HOT WATER	IN-LINE CENTRIFUGAL	TACO	006e3	2	5	44 W	1600	120	1	PROVIDE WITH HONEYWELL L6006C AQUASTAT AND FLANGE KIT	

ELECTRIC WATER HEATER SCHEDULE											
MARK	SERVICE	MANUFACTURER	MODEL	TYPE	TANK SIZE (GAL)	TEMPERATURE RISE ° F	RECOVERY RATE (GPH)	POWER INPUT (KW)	VOLTAGE	PHASE	
EWH 1	DOMESTIC HOT WATER	A.O. SMITH	DEL-20	ELECTRIC - TANK TYPE	20	80	20	3.0	208	1	


THERMAL EXPANSION TANK SCHEDULE					
MARK	MANUFACTURER	MODEL	TANK CONNECTION	TANK VOLUME (GAL.)	ACCEPTANCE FACTOR
ET 1	A.O. SMITH	PMI-2	3/4	2.1	0.53

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PLUMBING SCHEDULES