

DATE 11.09.22 PROJECT NO. 2150

PROJECT OCS - SPECIAL NEEDS AND ANNEX BUILDING REMODELS

FROM STUDIO 333 ARCHITECTS

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HADFIELD CONSTRUCTION	SHANE@HADFIELDCO.COM	801.540.4157
WASATCH WEST CONTRACTING	BRIAN@WASATCHWESTC.COM	801.455.1652
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R+O CONSTRUCTION	JADENO@RANDOCO.COM	385.405.4649

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 10.26.22, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 2 pages and the attached Drawing Sheets:

Special Education Building Remodel: MD100, MD101, MD102, M101, M102, M501, M502, M601, M602, PD100, PD101, PD102, P100, P101, P102, P103, P401, P501, P502, P601, EG1.1 and EX1.2.

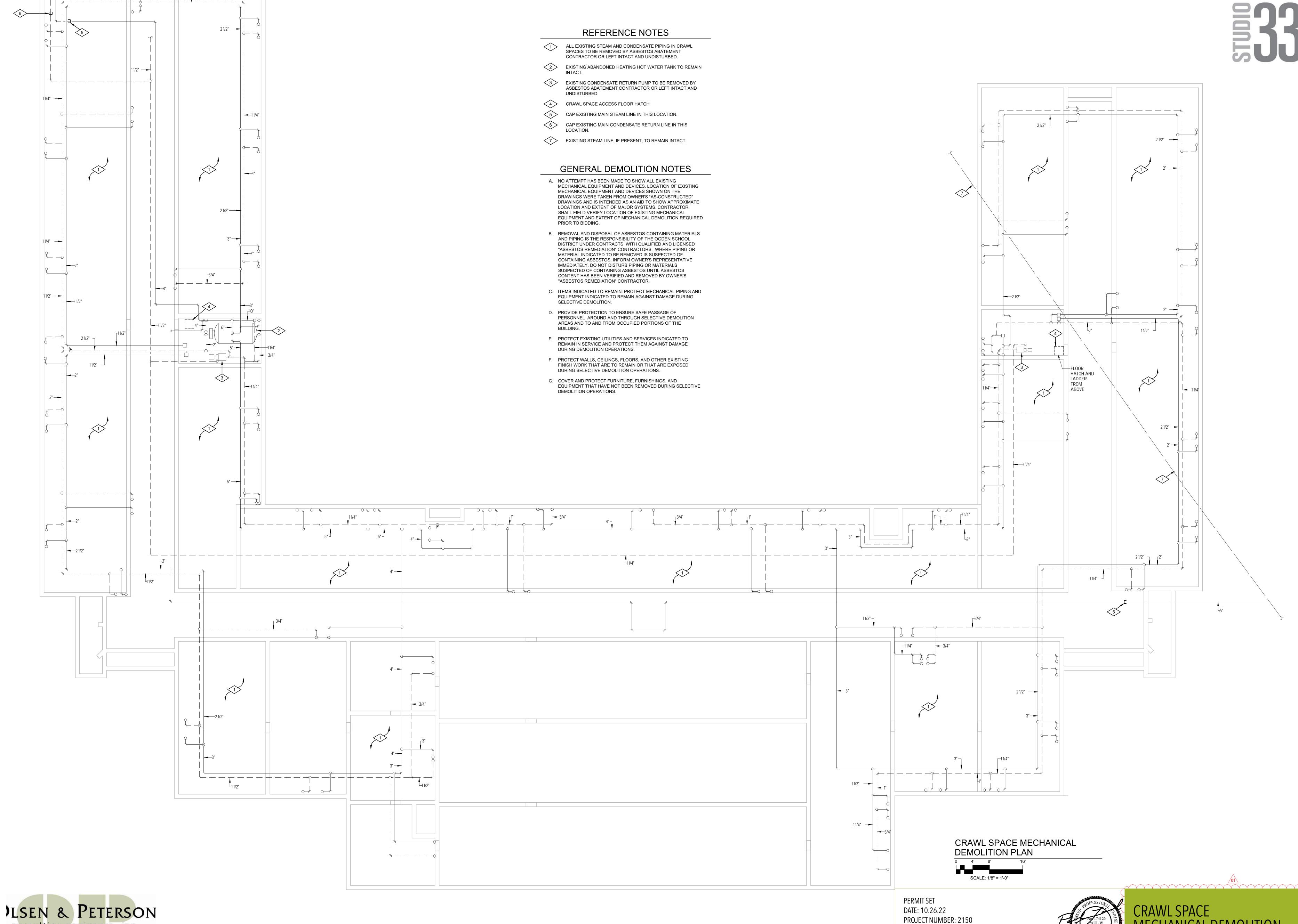
Annex Building Remodel: D1.2, A1.2, MD100, MD101, M100, M101, M501, M502, M503, M601, PD100, PD101, P001, P100, P101, P501, P502, P601, EG1.1 and EX1.1.

A. Changes to drawings:

- 1. Special Education Building Remodel Sheets MD100, M502, M602 and PD100:
 - a. Add sheets MD100, M502, M602 and PD100 to the construction documents.
- 2. Special Education Building Remodel Sheets MD101, MD102, M101, M102, M501, M601, PD101, PD102, P100, P101, P102, P103, P401, P501, P502 and P601:
 - a. Update the drawing title on sheets MD101, MD102, M101, M102, M501, M601, PD101, PD102, P100, P101, P102, P103, P401, P501, P502 and P601
- 3. Special Education Building Remodel Sheet EG1.1:
 - a. Drawing Index updated to match changed sheet EX1.2 name 'Luminaire and Mechanical Schedules'
- 4. Special Education Building Remodel Sheet EX1.2:
 - a. Sheet name updated to 'Luminaire and Mechanical Schedules'. Added Luminaire Schedule to sheet.
- 5. Annex Building Remodel Sheets D1.2 and A1.2:
 - a. Demolish wood access door systems between private restrooms at Restroom 111, infill openings with framing to match existing, install new lathe and plaster wall finish to match existing and paint walls.

STUDIO 333 ARCHITECTS

- 6. Annex Building Remodel Sheets MD100, MD101, M100, M101, M501, M502, M503, M601, PD100, PD101, P001, P100, P101, P501, P502 and P601:
 - a. Update the drawing title on sheets MD100, MD101, M100, M101, M501, M502, M503, M601, PD100, PD101, P001, P100, P101, P501, P502 and P601.
- 7. Annex Building Remodel Sheet EG1.1:
 - a. Drawing Index updated to match changed sheet EX1.1 name 'Electrical Schedules'
- 8. Annex Building Remodel Sheet EX1.1:
 - a. Sheet name updated to 'Electrical Schedules'. Added Luminaire Schedule to sheet.

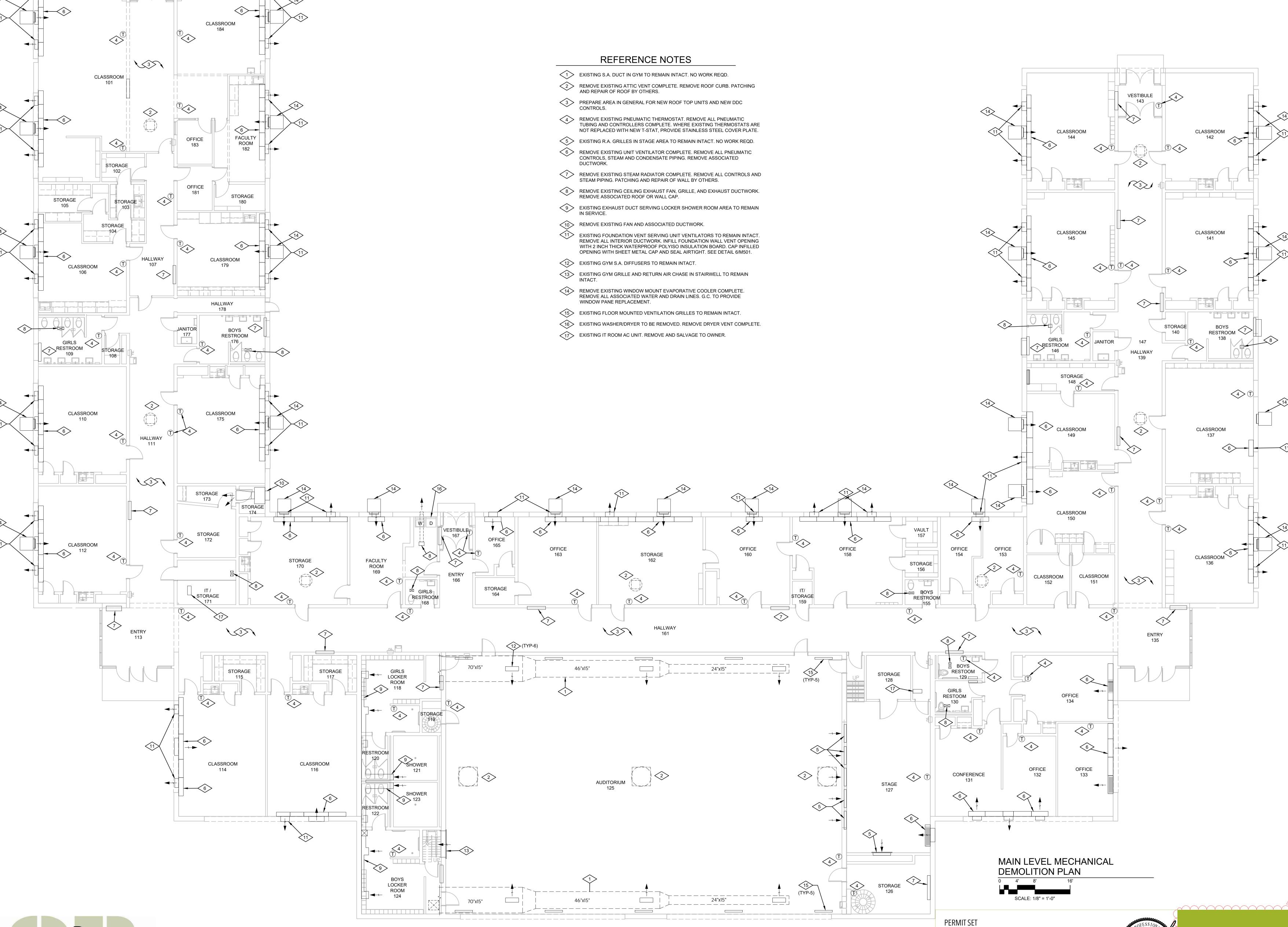


consulting engineers, inc.

14 East 2700 South, Salt Lake City, UT 84115 Phone: (801) 486-4646 Fax: (801) 467-2531



SCALE:

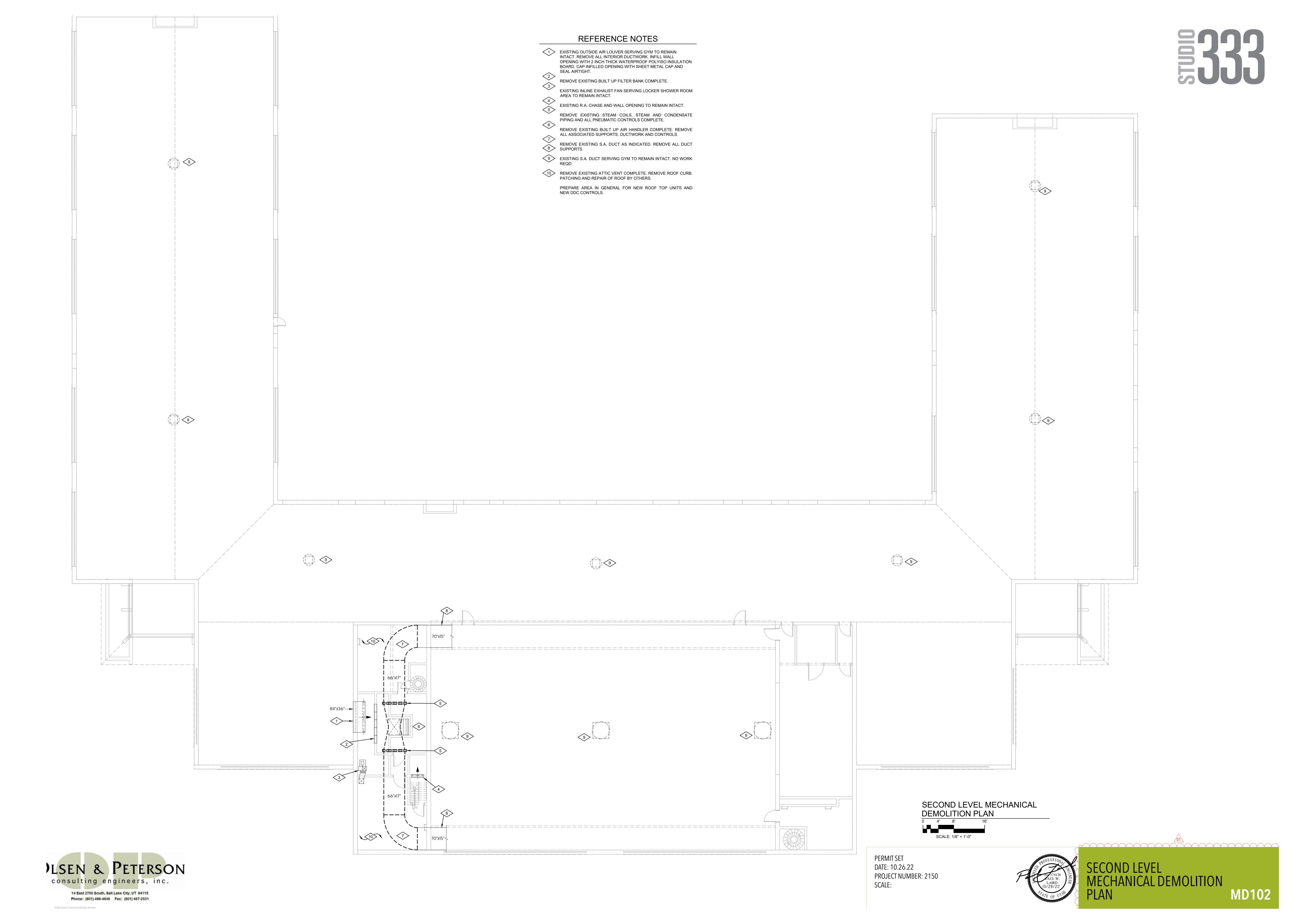


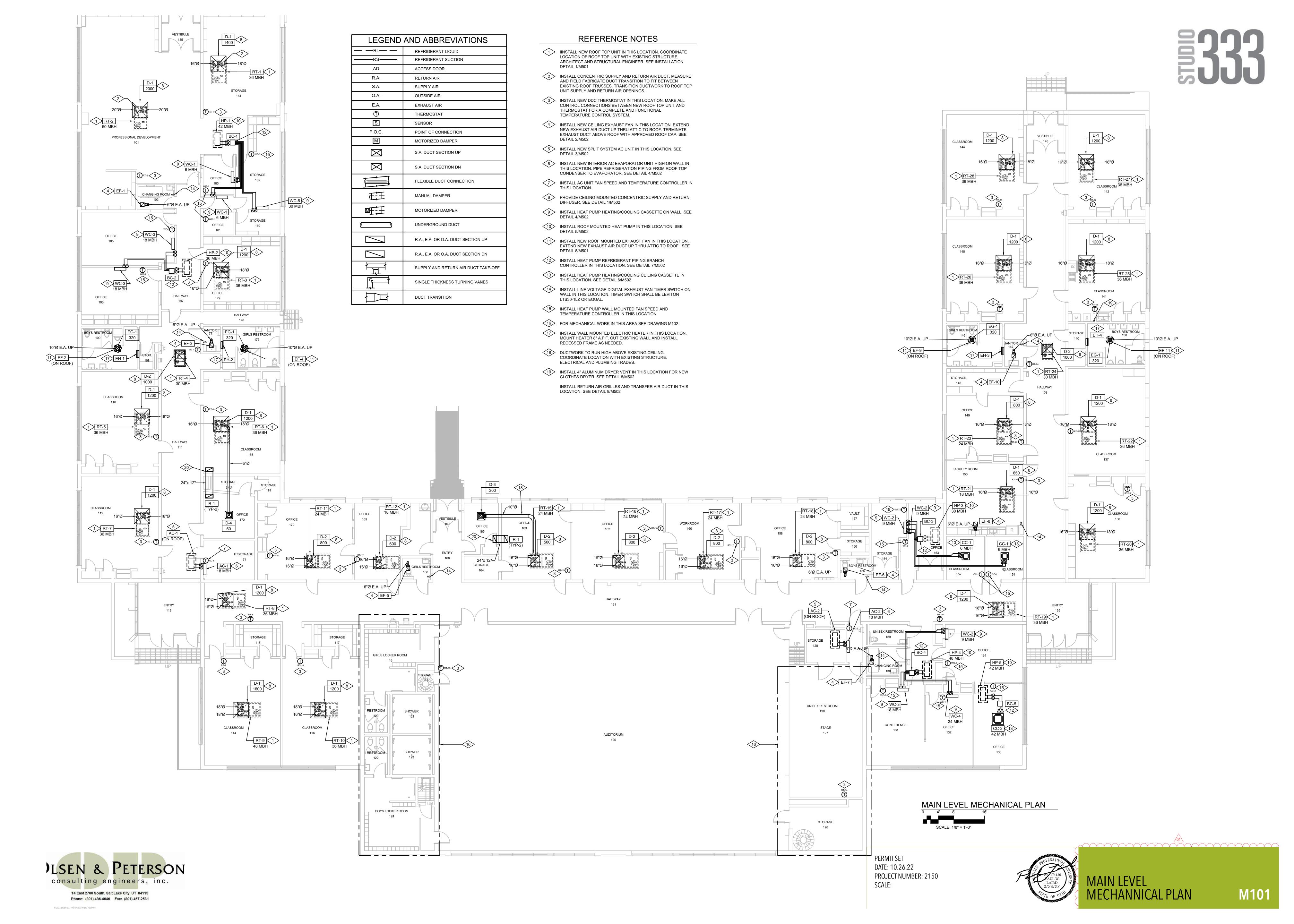


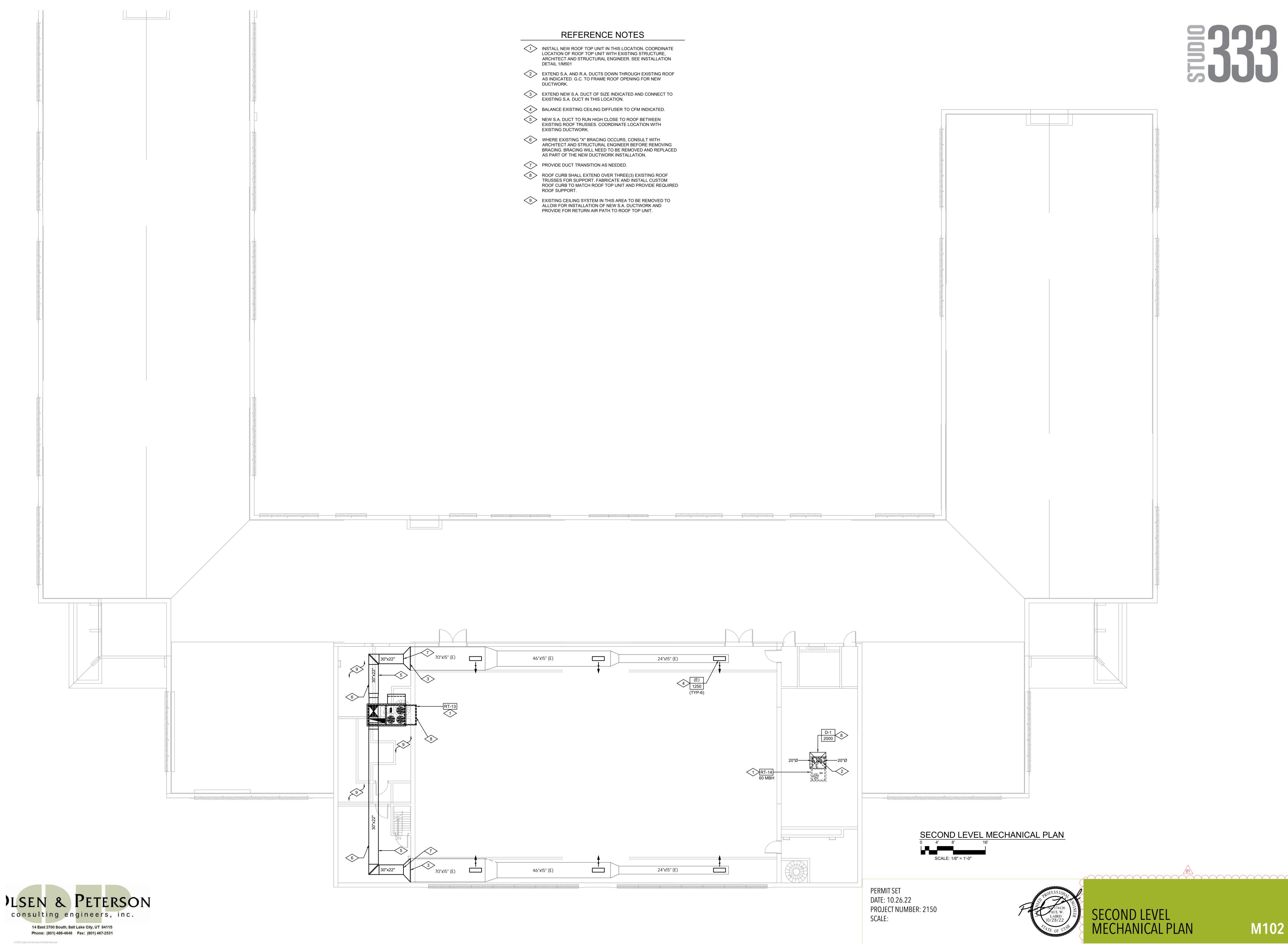


DATE: 10.26.22

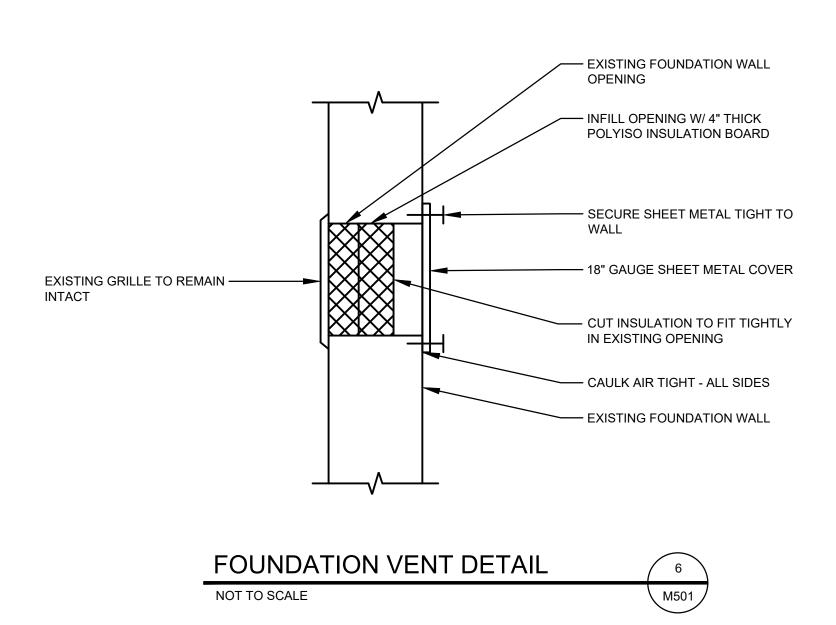
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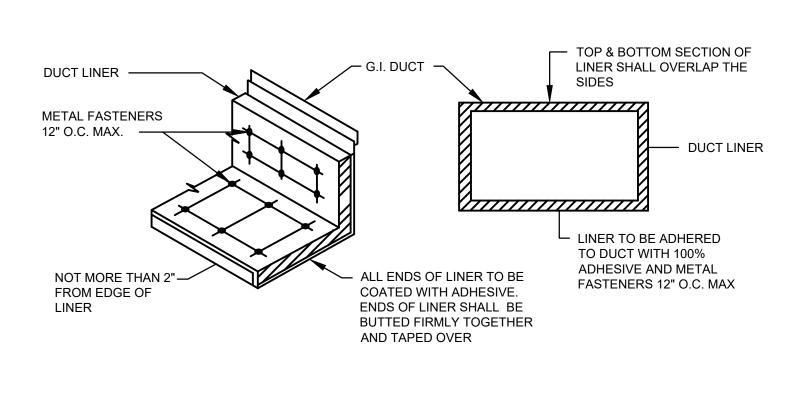






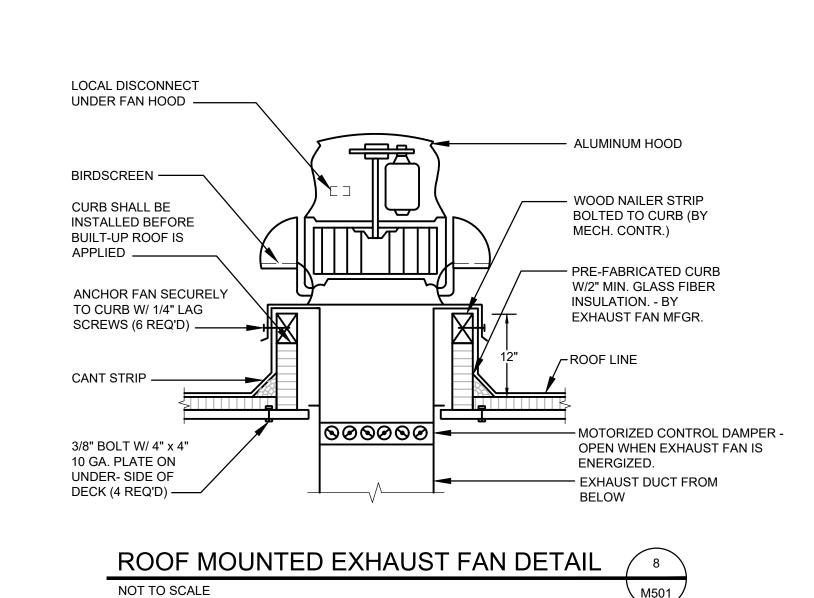


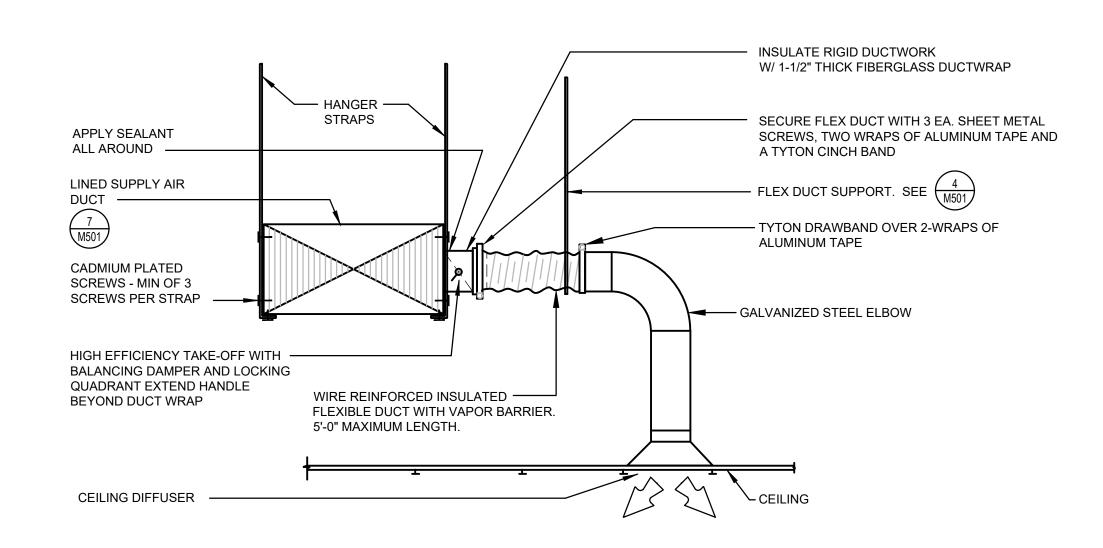




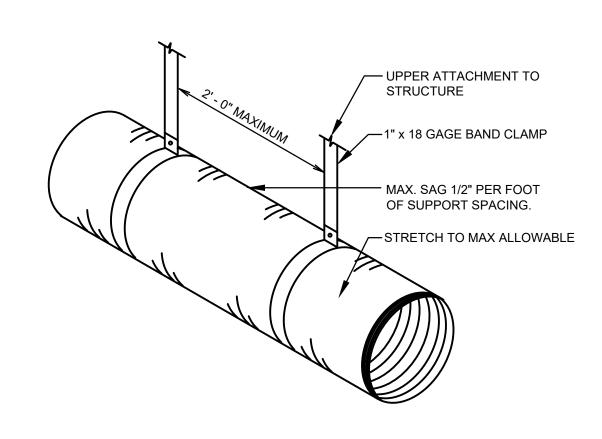
DUCT LINER DETAIL

NOT TO SCALE

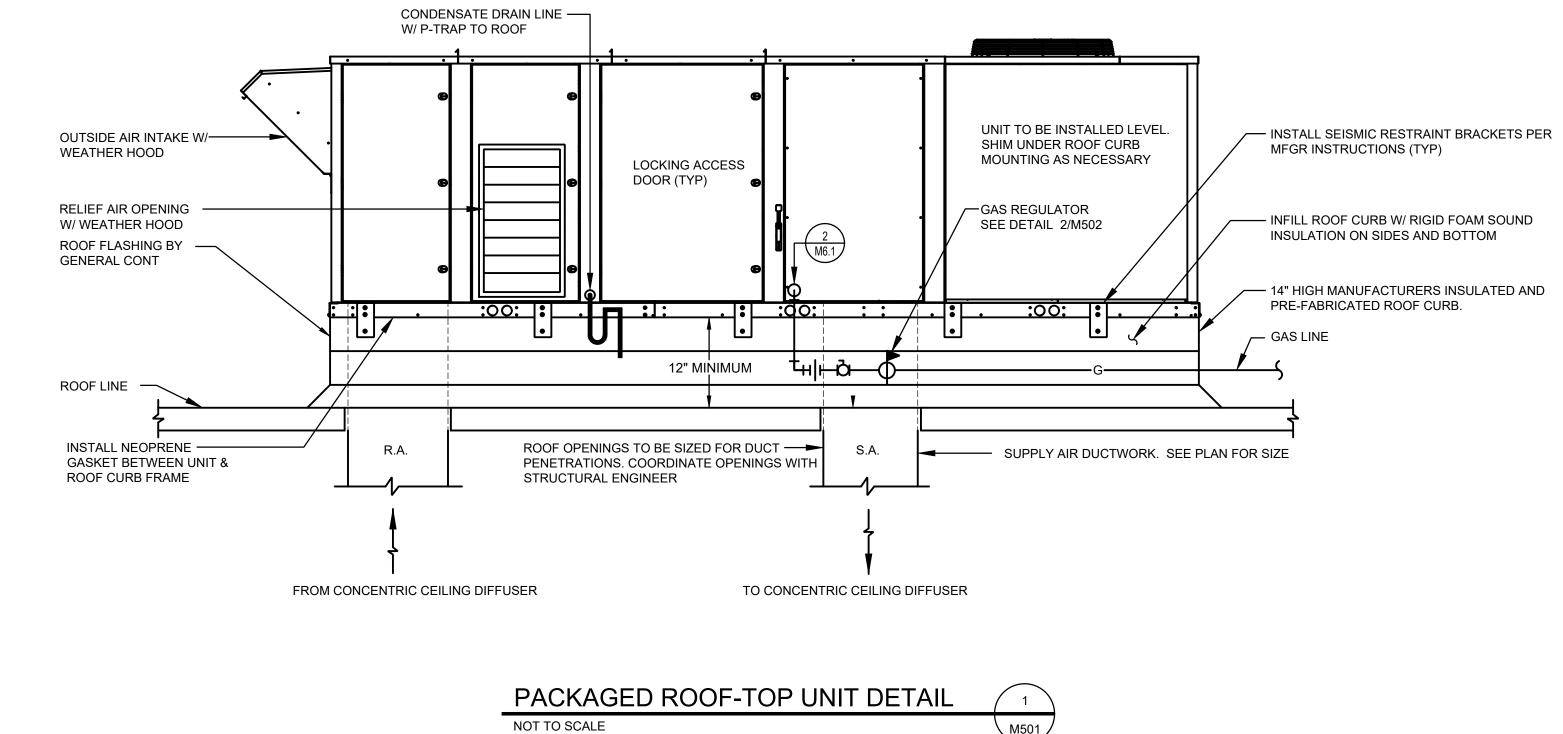


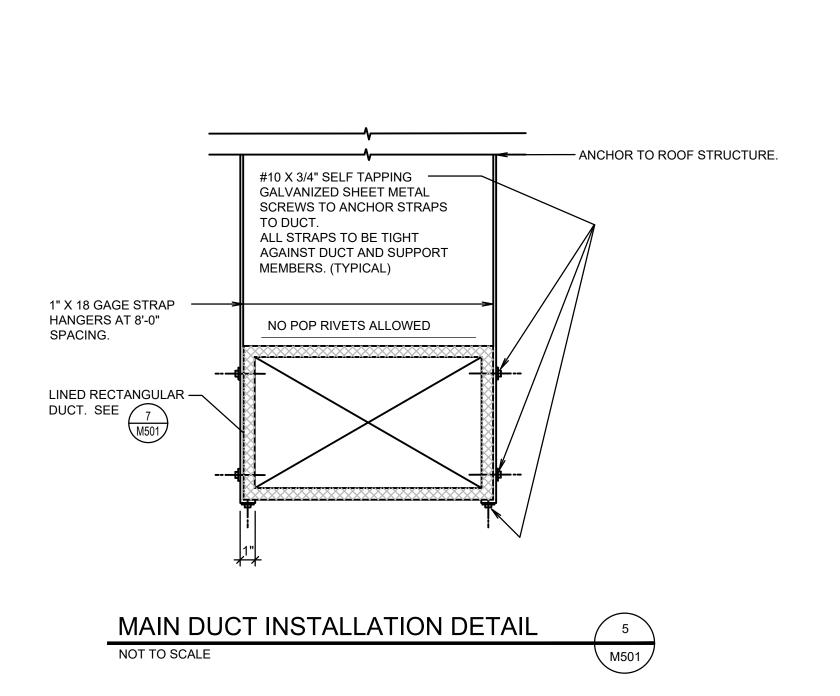


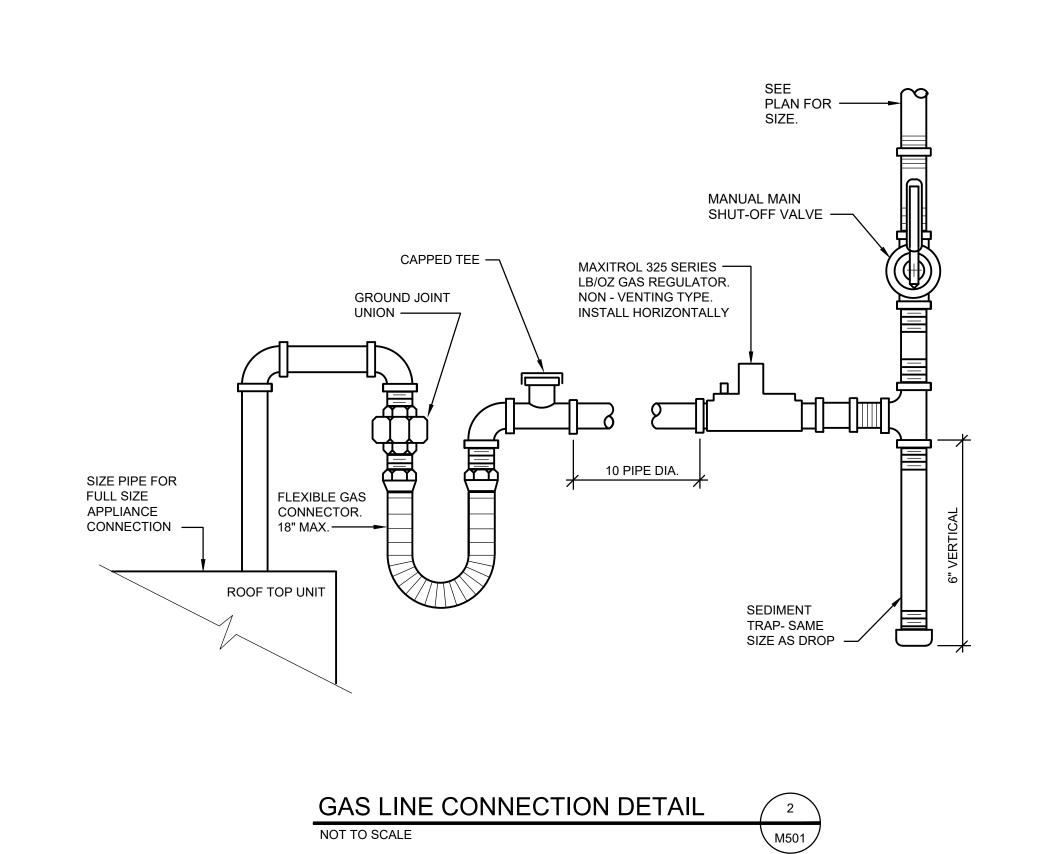






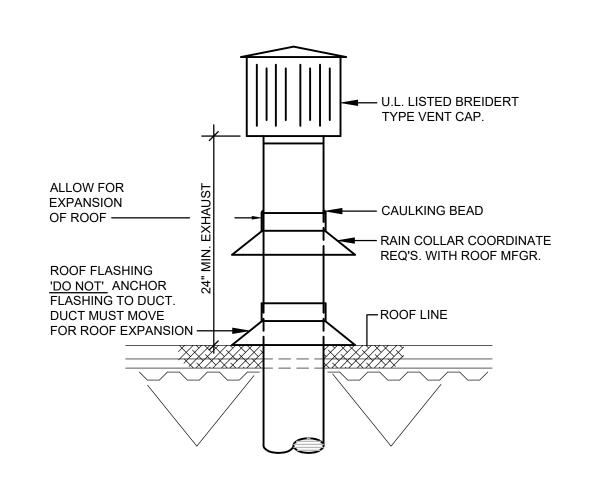




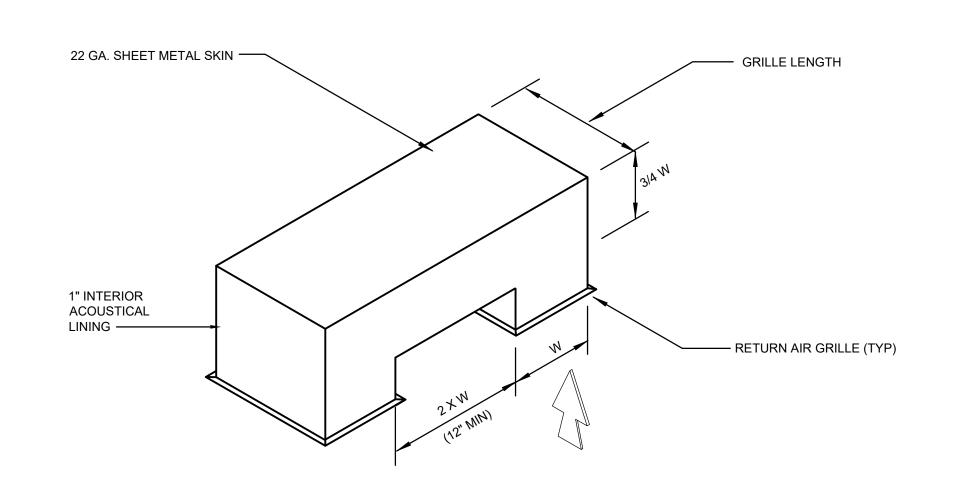




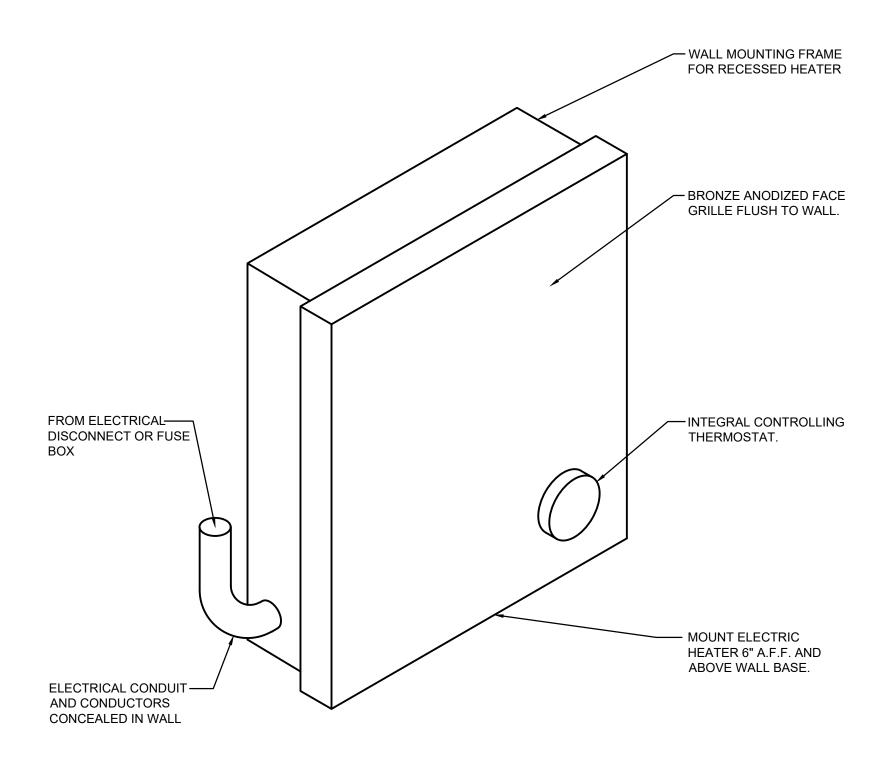




TYPICAL DUCT PENETRATION AT ROOF DETAIL NOT TO SCALE 8 M502



TRANSFER AIR DUCT DETAIL 9 M502

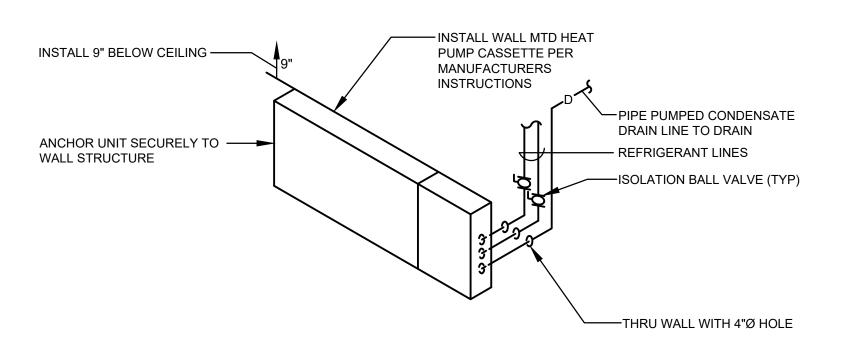


ELECTRIC WALL HEATER DETAIL

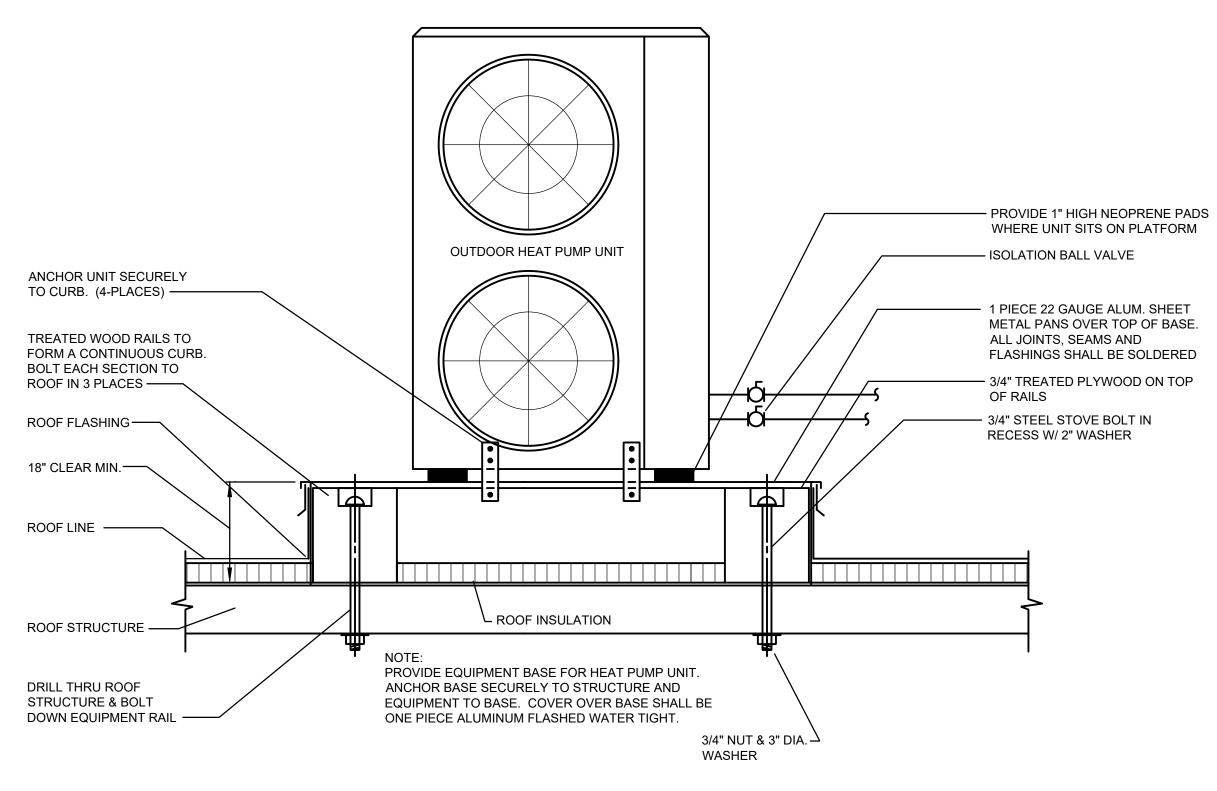
NOT TO SCALE

10

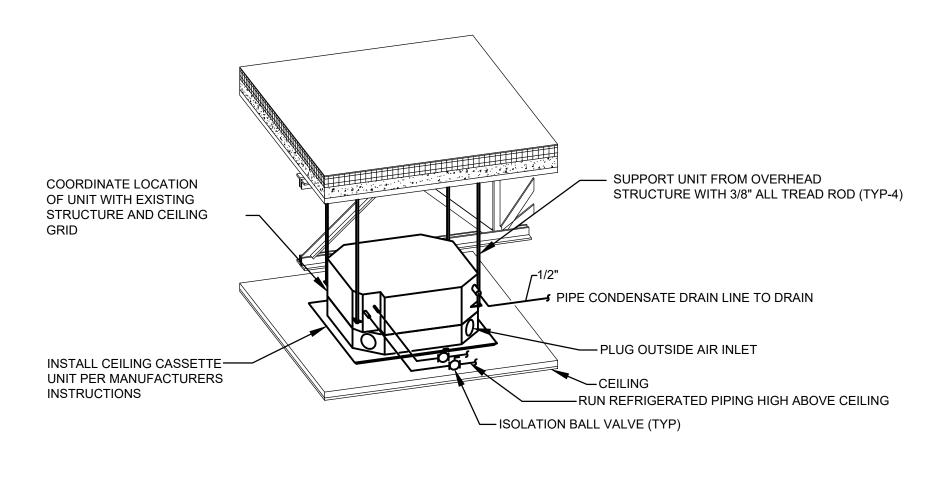
M502



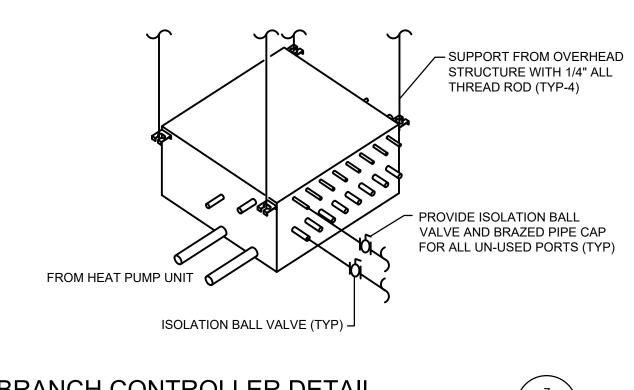
WALL CASSETTE INSTALLATION DETAIL SCALE: NONE 4 M502



AIR COOLED HEAT PUMP UNIT DETAIL NOT TO SCALE 5 M502

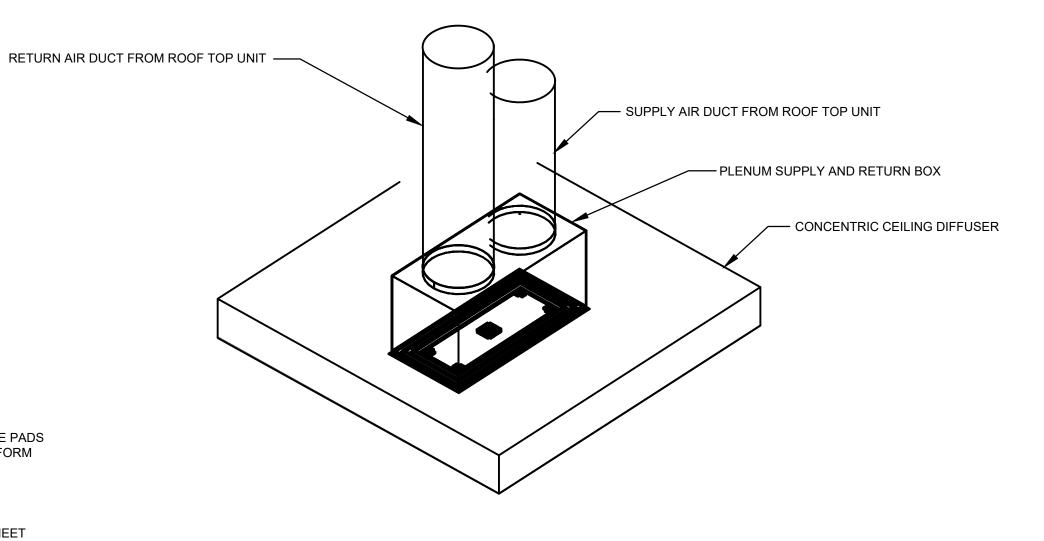


CEILING CASSETTE INSTALLATION DETAIL ROT TO SCALE 6 M502

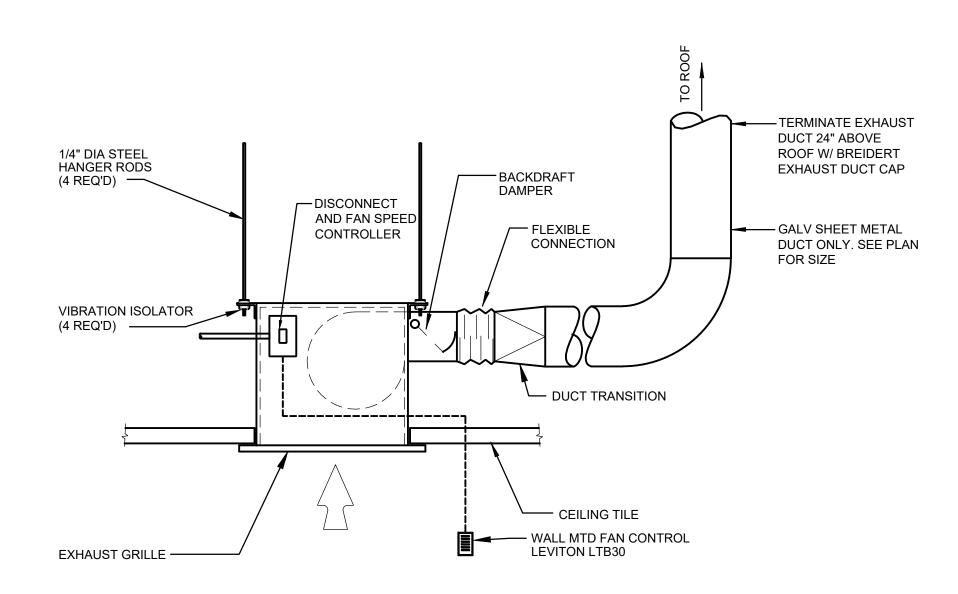




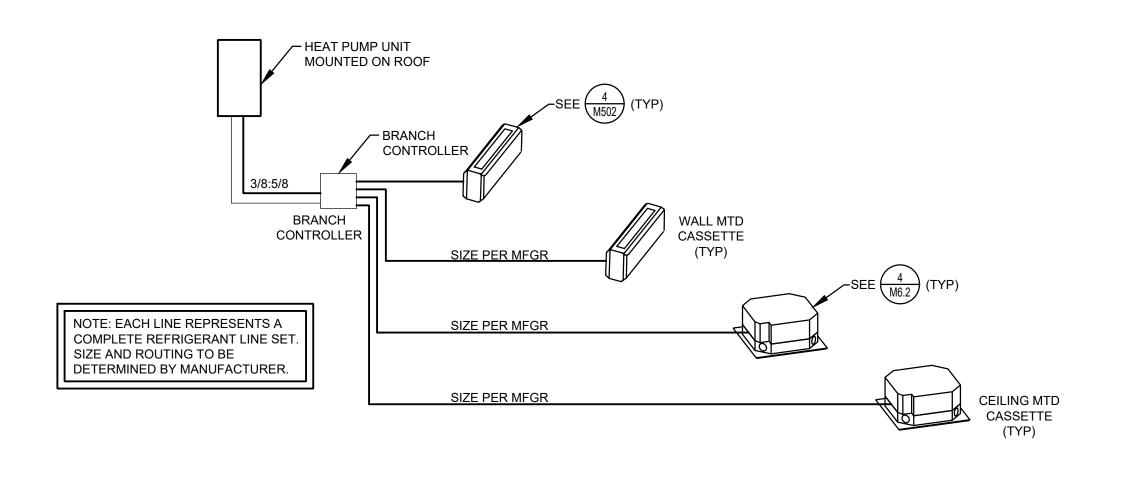




CONCENTRIC SUPPLY / RETURN DIFFUSER DETAIL 1 NOT TO SCALE M502



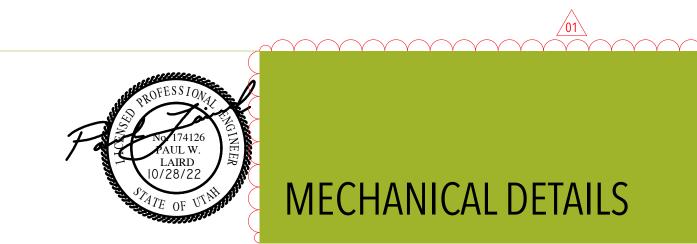
CEILING EXHAUST FAN DETAIL 2
NOT TO SCALE M502



TYPICAL HEAT PUMP PIPING SCHEMATIC 7
SCALE: NONE



PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE:



GENERAL MECHANICAL NOTES:

- A. CODE COMPLIANCE. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC), NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ENERGY CONSERVATION CODE (NECC) INCLUDING ALL STATE AND LOCAL AMENDMENTS AND LIFE SAFETY CODES ENFORCED OR CURRENTLY IMPLEMENTED BY THE BUILDING AUTHORITY HAVING JURISDICTION IN WHICH THE PROJECT RESIDES.
- B. COORDINATION PROCEDURES. CONTRACTOR SHALL COORDINATE ALL MECHANICAL (M) AND PLUMBING (P) WORK WITH THE ARCHITECTURAL, STRUCTURAL, CIVIL AND ELECTRICAL TRADES OF THIS PROJECT. REFER TO DRAWINGS, SPECIFICATIONS, SUBMITTALS AND SHOP DRAWINGS OF THE VARIOUS TRADES FOR PROJECT SPECIFIC REQUIREMENTS FOR COORDINATION PURPOSES.
- C. DRAWINGS. (M) AND (P) DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED. DUCT AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE. NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING (M) AND (P) EQUIPMENT AND DEVICES. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND TRANSITIONS AS NEEDED TO FACILITATE INSTALLATION OF THE MECHANICAL AND PLUMBING SYSTEMS IN HARMONY WITH THE OTHER RESPECTIVE TRADES OF THE PROJECT.
- D. EQUIPMENT SELECTIONS. ALL PROJECT EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE SELECTED TO MEET AND OPERATE AT THE CAPACITIES INDICATED IN THE CONTRACT DOCUMENTS AT THE JOB SITE CONDITIONS. JOB SITE CONDITIONS INCLUDE ELEVATION ABOVE SEA LEVEL, AMBIENT SUMMER AND WINTER DRY BULB/WET BULB TEMPERATURES, WIND DIRECTION AND PROPERTY SITE AND PROPERTY LINES.
- E. WORKMANSHIP. INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONSTRUCTION INDUSTRY STANDARDS. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER.
- F. DUCT CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL CONSTRUCT ALL DUCTWORK, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, IN ACCORDANCE WITH THE LATEST VERSION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- G. SEISMIC CONDITIONS. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE IBC, IMC, ASHRAE AND SMACNA STANDARDS. WHERE REQUIRED, THIS CONTRACTOR SHALL EMPLOY THE PROFESSIONAL SERVICES OF A RECOGNIZED SEISMIC BRACING COMPANY TO PROVIDE SHOP DRAWINGS, DETAILS, CONFIGURATIONS, ANCHORS, SUPPORTS, ATTACHMENTS AND MATERIALS FOR BRACING THE MECHANICAL EQUIPMENT, DUCTWORK AND PIPING.
- H. WARRANTY. THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE NEW AND OF GOOD QUALITY, UNLESS OTHERWISE REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS NOT INHERENT IN THE QUALITY REQUIRED OR PERMITTED; AND THAT THE WORK WILL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. WARRANTY PERIOD FOR THIS WORK SHALL EXTEND FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION.
- I. CHANGES. IF CONCEALED OR UNKNOWN PHYSICAL CONDITIONS ARE ENCOUNTERED AT THE SITE THAT DIFFER MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS OR FROM THOSE CONDITIONS ORDINARILY FOUND TO EXIST, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER OR ARCHITECT OF THOSE CONDITIONS. SHOULD THE CONTRACTOR PROCEED WITH THE WORK WITHOUT INSTRUCTION, NOTIFICATION OF CHANGE OR AN APPROVED CHANGE ORDER; HE DOES SO AT HIS OWN FINANCIAL RISK.
- J. UTILITY INTERRUPTIONS. EXISTING (M), (P) AND (FP) WORK SHALL REMAIN IN SERVICE EXCEPT AS REQUIRED FOR SCHEDULED INTERRUPTIONS. INTERRUPTIONS OF SERVICE OR UTILITIES SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT AT LEAST TWO
- K. TIME IS OF THE ESSENCE. THE CONTRACTOR SHALL COMMENCE WORK UNDER THIS CONTRACT UPON RECEIPT OF THE OWNER'S WRITTEN NOTICE TO THE CONTRACTOR TO PROCEED. THE CONTRACTOR SHALL COMPLETE THE WORK AND HAVE IT READY FOR SUBSTANTIAL COMPLETION INSPECTION BY THE DATE NOTED IN THE CONTRACT.

PROJECT DES	GN DATA:	
LOCATION:	OGDEN, UTAH	
LATITUDE:	41.05°	
LONGITUDE:	111.36°	
ELEVATION:	4200 FT	
SUMMER DESI	GN DRY BULB:	97°F
SUMMER DESI	GN WET BULB:	65°F
WINTER DESIG	SN DRY BULB:	1°F
DEFAULT SUM	MER INDOOR DRY BULB:	75°F
DEFAULT WINT	ER INDOOR DRY BULB:	72°F

BUILDING PLUMBING SERVICES PIPING MATERIALS LISTING

CONDENSATE PIPING SYSTEMS

ABOVE-GRADE - COPPER PIPE AND TUBING MEETING REQUIREMENTS OF ASTM B 88, TYPE L WITH WROUGHT COPPER SWEAT FITTINGS WITH 95/5 OR 96/4 TIN-ANTIMONY SOLDER.

REFRIGERANT PIPING SYSTEMS: HARD COPPER TURING MEETING

HARD COPPER TUBING MEETING REQUIREMENTS OF ASTM B 280, HARD DRAWN STRAIGHT LENGTHS WITH WROUGHT COPPER BRAZED FITTINGS WITH AWS CLASSIFICATION BCUP-4 COPPER PHOSPHORUS OR AWS CLASSIFICATION BCUP-5 COPPER PHOSPHORUS RODS AND WHITE BRAZING OR HIGH QUALITY SILVER SOLDER FLUX

(3) FUR	NISH WITH PLENLIM	SUPPLY BOX	DIFFUSE	R SCHEDULE	
SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL
D-1 CFM	COMBINATION SUPPLY/RETURN	48" x 48"	CEILING	4-WAY	PRICE CSRD (1)(2)(3) 53" x 53" FACE
D-2 CFM	COMBINATION SUPPLY/RETURN	36" x 36"	CEILING	4-WAY	PRICE CSRD (1)(2)(3) 41" x 41" FACE
D-3 CFM	LAY-IN	10"Ø	CEILING	4-WAY	PRICE SPD (1)(2) 24 x 24 FACE
D-4 CFM	LAY-IN	6"Ø	CEILING	4-WAY	PRICE SPD (1)(2) 12 x 12 FACE

NOTES:

(1) PROVIDE REQUIRED CEILING FRAMES FOR MOUNTING IN LAY-IN OR GYP-BOARD CEILING.

(2) TO HAVE BRIGHT WHITE POWDER COAT FINISH.

	RET	URN AND EXHA	UST GRILLE	SCHEDULE
SYMBOL	NECK SIZE	LOCATION	TYPE	MAKE & MODEL
R-1	24" x 12"	CEILING	RETURN AIR	PRICE 535 (1)

EXHAUST AIR

CEILING

NOTES:
(1) TO HAVE BRIGHT WHITE POWDER COAT FINISH.

12" x 12"

										R	OOFTOP	UNIT S	CHEDU	LE						
				FAN				COOLING CAP	ACITY			HEATING CA	PACITY		Ī					
SYMBOL	SERVES	CFM	EXTERNAL STATIC PRESS.	H.P. BHP	DRIVE	OAT	EDB EWB	TOTAL MBH	SENSIBLE MBH	SEER / EER	TYPE	GAS CONN.	MBH IN	MBH OUT	ELEC	MCA	MFS	WEIGHT LBS.	SIZE	MANUFACTURER & MODEL (1)(2)(3)(4)
RT-1	STORAGE 184	1400	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-2	PROF. DEVEL. 101	2000	0.5	2.0	BELT	95	80 62	66.0	53.4	11.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	28.0	45	900	74" x 47" x 42"	CARRIER 48FCEA07B2A5 (5)
RT-3	OFFICE 179	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-4	HALLWAY 111	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40 -	32	208 V/1/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-5	CLASSROOM 110	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-6	CLASSROOM 175	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-7	CLASSROOM 112	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-8	ENTRY 113	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-9	CLASSROOM 114	1600	0.5	1.5 0.85	BELT	95	80 62	42.7	35.9	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	26.0	30	800	74" x 47" x 34"	CARRIER 48FCEA05B2A5
RT-10	CLASSROOM 116	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-11	OFFICE 170	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-12	OFFICE 169	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-13	AUDITORIUM 125	7500	0.6	5.0 4.6	BELT	95	80 62	180.0	152.0	10.8	INDIRECT GAS	3/4"	310 248	248 198	208 V/3/60	88.6	100.0	1800	116" x 67" x 58"	CARRIER 48FCEM16B2A5 (5)(6)
RT-14	STAGE 127	2000	0.5	2.0	BELT	95	80 62	66.0	53.4	11.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	28.0	45	900	74" x 47" x 42"	CARRIER 48FCEA07B2A5 (5)
RT-15	OFFICE 163	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-16	OFFICE 162	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-17	WORKROOM 160	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-18	OFFICE 158	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40 -	32	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-19	ENTRY 135	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-20	CLASSROOM 136	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-21	FACULTY 150	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40 -	32 -	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-22	CLASSROOM 137	1200	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-23	OFFICE 149	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40 -	32 -	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-24	HALLWAY 139	1000	0.5	0.5 0.28	BELT	95	80 62	24.0	23.3	14.0	INDIRECT GAS	1/2"	40 -	32 -	208 V/3/60	21.1	30	400	49" x 33" x 46"	CARRIER 48VL-F3
RT-25	CLASSROOM 141	1400	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-26	CLASSROOM 145	1400	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-27	CLASSROOM 142	1400	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5
RT-28	CLASSROOM 144	1400	0.5	1.0 0.43	BELT	95	80 62	30.7	28.0	14.0	INDIRECT GAS	1/2"	110 82	88 66	208 V/3/60	20.0	30	720	74" x 47" x 34"	CARRIER 48FCEA04A2A5

NOTES:

- (1) FURNISH ROOF TOP UNIT COMPLETE WITH FULL DRY BULB ECONOMIZER, BACNET CARD AND OPEN PROTOCOL CONTROLS FOR UTAH-YAMAS CONTROLS, MOTORIZED R.A. & O.A. DAMPERS, GRAVITY RELIEF, WEATHERHOODS FOR O.A AND RELIEF AIR, HAIL GUARDS, POWERED CONVENIENCE OUTLET, SINGLE POINT POWER CONNECTION W/ NON-FUSED DISCONNECT, STAINLESS STEEL DRAIN PAN, HIGH ALTITUDE KIT, LB/OZ GAS REGULATOR, MERV 8 AIR FILTERS, 2 STAGE MEDIUM GAS HEAT & LOCKING HINGED SERVICE ACCESS DOORS.
- (2) INSTALL NEW ROOF-TOP UNIT LEVEL AND PLUMB PER MANUFACTURERS INSTRUCTIONS. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE AND OPERATIONAL CLEARANCES AROUND UNIT.
- (3) PROVIDE 14 INCH HIGH FACTORY FABRICATED AND INSULATED ROOF CURB. VERIFY LOCATION OF ROOF CURB AND ROOF OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLING. ROOF OPENINGS FOR SUPPLY AND RETURN AIR DUCTWORK TO BE STRUCTURALLY FRAMED TO MATCH DUCTWORK SIZES INDICATED.
- (4) AIRFLOW, HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE. CONTRACTOR TO SELECT EQUIPMENT FOR PROJECT SITE ALTITUDE OF 4200 FT ASL. 97 DEG F DB AND 62 DEG F WB.
- (5) TWO STAGE COOLING.
- (6) PROVIDE IONIZATION TYPE, DUCT MOUNTED SMOKE DETECTOR INTEGRATED WITH BUILDING FIRE ALARM CONTROLS. SMOKE DETECTOR TO BE MOUNTED IN R.A. DUCT.

PRICE 535

				E)	XHAU	ST FAN SO	CHEDULI	E			
SYMBOL	SERVES	TYPE	C.F.M	S.P.	R.P.M.	MOTOR HP ELECTRICAL	DRIVE	SONES	CONTROL	MAKE & MODEL	NOTES
	CHANGI9NG					0.405 H.D			WALL		
EF-1	ROOM 102	CEILING	100	0.25	1075	0.125 H.P. 120/1/60	DIRECT	2.0	SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-2	BOYS RESTROOM 109	ROOF MTD DOWNBLAST	320	0.25	1045	0.25 H.P. 120/1/60	BELT	4.2	ATC	COOK ACE-B-100C2B	(1)(2)(3)(4)(5)
EF-3	JANITOR ROOM 177	CEILING	70	0.25	900	0.125 H.P. 120/1/60	DIRECT	2.0	WALL SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-4	GIRLS RESTROOM 176	ROOF MTD DOWNBLAST	320	0.25	1045	0.25 H.P. 120/1/60	BELT	4.2	ATC	COOK ACE-B-100C2B	(1)(2)(3)(4)(5)
EF-5	GIRLS RESTROOM 168	CEILING	100	0.25	1075	0.125 H.P. 120/1/60	DIRECT	2.0	WALL SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-6	BOYS RESTROOM 155	CEILING	100	0.25	1075	0.125 H.P. 120/1/60	DIRECT	2.0	WALL SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-7	UNISEX RESTROOM 130	CEILING	150	0.25	1100	0.125 H.P. 120/1/60	DIRECT	3.1	WALL SWITCH	COOK GC-166	(1)(3)(5)(6)
EF-8	FACULTY ROOM 150	CEILING	125	0.25	1100	0.125 H.P. 120/1/60	DIRECT	2.0	WALL SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-9	GIRLS RESTROOM 146	ROOF MTD DOWNBLAST	320	0.25	1045	0.25 H.P. 120/1/60	BELT	4.2	ATC	COOK ACE-B-100C2B	(1)(2)(3)(4)(5)
EF-10	JANITORS ROOM 147	CEILING	70	0.25	900	0.125 H.P. 120/1/60	DIRECT	2.0	WALL SWITCH	COOK GC-148	(1)(3)(5)(6)
EF-11	BOYS RESTROOM 138	ROOF MTD DOWNBLAST	320	0.25	1045	0.25 H.P. 120/1/60	BELT	4.2	ATC	COOK ACE-B-100C2B	(1)(2)(3)(4)(5)

- (1) FIELD VERIFY ELECTRICAL VOLTAGE AND POWER PHASE PRIOR TO ORDERING FAN. FIELD VERIFY LOCATION OF EXHAUST FAN WITH G.C. AND STRUCTURAL ENGINEER.
- (2) MOUNT EXHAUST FAN SECURELY ON 24 INCH HIGH SOUND INSULATED ROOF CURB. CURB TO BE BOLTED OR WELDED TO METAL ROOF DECK.
 (3) FURNISH EXHAUST FAN WITH LOCALIZED, FACTORY WIRED DISCONNECT SWITCH AND BACK DRAFT DAMPER.
- (4) PROVIDE REQUIRED DUCT TRANSITION FROM EXHAUST DUCT TO EXHAUST FAN. PROVIDE FRAMED ROOF OPENING FOR EXHAUST DUCT AND FAN SUPPORT.
- (5) REFER TO SPECIFICATIONS FOR EXHAUST FAN CONTROL SEQUENCE.(6) BALANCE EXHAUST FAN TO CFM INDICATED. PROVIDE VARIABLE FAN SPEED CONTROL OR ADJUSTABLE DAMPERS WHERE NEEDED TO MATCH CFM LISTED.

		RECE	SSED	WALL I	ELECTI	RIC HE	ATER	SCHEDU	LE
SYMBOL	WATTS	TYPE	VOLTS	PHASE	AMPS	MOCP	WEIGHT	SIZE	(1)(2)(3) MAKE & MODEL
EH-1	1800	RECESSED	120	1	15.0	20	25 LBS	20"x16"x4"	QMARK MODEL AWH3180F
EH-2	1800	RECESSED	120	1	15.0	20	25 LBS	20"x16"x4"	QMARK MODEL AWH3180F
EH-3	1800	RECESSED	120	1	15.0	20	25 LBS	20"x16"x4"	QMARK MODEL AWH3180F
EH-4	1800	RECESSED	120	1	15.0	20	25 LBS	20"x16"x4"	QMARK MODEL AWH3180F

NOTES:

(1) FURNISH W/ INTEGRAL THERMOSTAT, 16 GAUGE HEAVY DUTY, DECORATIVE BRONZE GRILLE, SATIN ALUMINUM FRAME, AND RECESSED MOUNTING BOX.
 (2) PROVIDE THERMAL CUTOUT AND CONCEALED POWER ON/OFF SWITCH
 (3) SET THERMOSTAT TO ENERGIZE HEATING ELEMENTS WHEN TEMPERATURE DROPS BELOW 67 DEG F. (ADJUSTABLE)

PERMIT SET

PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE:





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							IND	OOR CE	EILING A	ND WAL	L CASSETTE S	CHEDUL	E				
ID	LOCATION	TYPE	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	AIR FLOW RATE (CFM)	EXT STATIC PRESS (IN)	CONDENSATE DRAIN	REFRIGERANT SUCTION	REFRIGERANT LIQUID	WEIGHT (LBS)	NOMINAL UNIT SIZE W" x L" x H"	REFRIGERANT TYPE	SOUND PRESSURE LEVELS (H/M/L)(dB(A))	ELECTRICAL	MCA (A)	MOCP (A)	MAKE & MODEL
CC-1	CEILING	4-WAY CASSETTE	7500	8500	265	0.125	1"	1/2"	1/4"	40	24" x 24" x 10"	R410A	29/27/26	208-230/60/1	0.2	15	LG - ARNU073TRD4
CC-2	CEILING	4-WAY CASSETTE	42000	43800	1091	0.125	1"	5/8"	3/8"	72	36" x 36" x 14"	R410A	54/51/48	208-230/60/1	1.67	15	LG - ARNU423TAA4
WC-1	WALL	2-WAY CASSETTE	7500	8500	254	0.125	5/8"	1/2"	1/4"	25	32" x7.5" x 12.5"	R410A	32/30/28	208-230/60/1	0.25	15	LG - ARNU073SJA4
WC-2	WALL	2-WAY CASSETTE	9600	10900	275	0.125	5/8"	1/2"	1/4"	25	32" x7.5" x 12.5"	R410A	34/32/28	208-230/60/1	0.25	15	LG - ARNU093SJA4
WC-3	WALL	2-WAY CASSETTE	15400	17100	371	0.125	5/8"	1/2"	1/4"	25	32" x7.5" x 12.5"	R410A	42/39/31	208-230/60/1	0.25	15	LG - ARNU153SJA4
WC-4	WALL	2-WAY CASSETTE	24200	25600	537	0.125	5/8"	5/8"	3/8"	35	38" x8" x 14"	R410A	46/41/34	208-230/60/1	0.52	15	LG - ARNU243SKA4
WC-5	WALL	2-WAY CASSETTE	30000	32000	812	0.125	5/8"	5/8"	3/8"	48	46.5" x10.5" x 14.5"	R410A	49/44/42	208-230/60/1	0.51	15	LG - ARNU303SVA4



(1) PROVIDE INDOOR UNITS WITH Y BRANCHES AND BRAZED REFRIGERANT CONNECTORS WITH BALL ISOLATION VALVES.

INDOOR UNITS TO BE MOUNTED HIGH ON WALL OR CENTERED BETWEEN CEILING TILES. PROVIDE FACTORY FABRICATED MOUNTING BRACKETS AND ISOLATORS. COORDINATE LOCATION OF INDOOR UNITS WITH ELECTRICIAN AND ARCHITECT.

PROVIDE INTEGRAL CONDENSATE LIFT PUMP (5 GPH @ 20" HEAD) WITH CONDENSATE DRAIN CONNECTION FOR EACH INDOOR UNIT. WHERE CONDENSATE PUMPS ARE NOT INTEGRALLY PROVIDED FURNISH CONDENSATE PUMP MOUNTED TO UNIT. PIPE CONDENSATE DRAIN LINE FULL SIZE TO NEAREST INDIRECT FLOOR SINK, SERVICE SINK OR SINK TAIL PIECE.

			IND	OOR	BRAN	NCH	COI	NTR	OLL	ER :	SCH	IED	ULE	
	COOLING	LIFATING	MAX	VOLTAGE	DATED	Р	IPING CON	NNECTION	S		MAX DIM	ENSIONS		
SYMBOL	COOLING BTUH	HEATING BTUH	INDOOR PORTS	VOLTAGE & PHASE	RATED AMPS	INT. LIQUID	INT. VAPOR	EXT. LIQUID	EXT. VAPOR	WIDTH	DEPTH	HEIGHT	WEIGHT	MANUFACTURER & MODEL
BC-1	42000	45000	4	208/230/1	0.15	1/4"	3/8"	3/8"	3/4"	12"	14"	7"	16 LB	LG 4 BRANCH PMBD SERIES
BC-2	36000	39000	4	208/230/1	0.14	1/4"	3/8"	3/8"	3/4"	12"	14"	7"	15 LB	LG 4 BRANCH PMBD SERIES
BC-3	30000	34000	4	208/230/1	0.12	1/4"	3/8"	3/8"	3/4"	12"	14"	7"	15 LB	LG 4 BRANCH PMBD SERIES
BC-4	48000	51000	4	208/230/1	0.16	1/4"	3/8"	3/8"	3/4"	12"	14"	7"	18 LB	LG 4 BRANCH PMBD SERIES
BC-5	42000	45000	4	208/230/1	0.15	1/4"	3/8"	3/8"	3/4"	12"	14"	7"	16 LB	LG 4 BRANCH PMBD SERIES

(1) INSTALL BRANCH CONTROLLERS WITH BRAZED REFRIGERANT CONNECTORS AND BALL ISOLATION VALVES.

						Ol	JTDOOR HE	AT PUMP U	NIT S	CHEDU	LE							
			MAX	NOMINAL COOLING	NOMINAL HEATING	DESIGN COOLING	DESIGN HEATING	REFRIG PIPE SIZE				SOUND	VOLTAGE / PHASE	ELECTF	RICAL	UNIT PH	/SICAL	NOTES / OPTIONS
SYSTEM ID	MANUFACTURER	LG MODEL NUMBER	NUMBER INT UNITS	CAPACITY (BTU/h)	CAPACITY (BTU/h)	OUTDOOR TEMP DB	OUTDOOR TEMP DB (°F)	LIQUID / SUCTION (INCH)	REFRIG	COND FANS	CFM	PRESSURE (dBA)	VOLTAGE / PHASE	208-230 VOLT	Γ - 1 PHASE			
			INT UNITS			(°F)	(F)	(INCH)				(UDA)		MCA	MFS	SIZE	WEIGHT	
HP-1	LG HVAC	ARUN042- SERIES V	6	42,000	48,000	95	-3	3/8 / 5/8	R410A	2	3885	51	208-230 / 1 PH	30.0	50	55" x 38" x 13"	265	(1)(2)(3)(4)(5)
HP-2	LG HVAC	ARUN036 - SERIES V	6	36,000	42,000	95	-3	3/8 / 5/8	R410A	2	4238	53	208-230 / 1 PH	23.5	40	55" x 38" x 13"	265	(1)(2)(3)(4)(5)
HP-3	LG HVAC	ARUN030- SERIES V	4	30,000	33,000	95	-3	1/4 / 3/8	R410A	1	1955	54	208-230 / 1 PH	20.1	30	35" x 26" x 16"	200	(1)(2)(3)(4)(5)
HP-4	LG HVAC	ARUN048- SERIES V	8	48,000	54,000	95	-3	3/8 / 5/8	R410A	2	3885	51	208-230 / 1 PH	30.0	50	55" x 38" x 13"	265	(1)(2)(3)(4)(5)
HP-5	LG HVAC	ARUN042- SERIES V	6	42,000	48,000	95	-3	3/8 / 5/8	R410A	2	3885	51	208-230 / 1 PH	30.0	50	55" x 38" x 13"	265	(1)(2)(3)(4)(5)

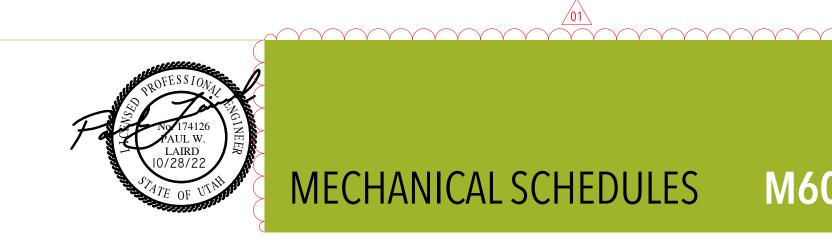
- (1) PROVIDE OUTDOOR UNITS WITH 18 IN. BASE RAILS WITH VIBRATION ISOLATION ANCHORED SECURELY AND SEISMICALLY TO THE ROOF DECK.
- (2) PROVIDE LOCALIZED NON-FUSED DISCONNECT FOR EACH OUTDOOR HEAT PUMP UNIT. (3) HEAT PUMP UNIT SHALL BE CAPABLE OF PROVIDING 100% RATED HEAT CAPACITY DOWN TO 5 DEG F
- (4) FURNISH WITH OPTIONAL LOW AMBIENT WIND BAFFLE KITS.

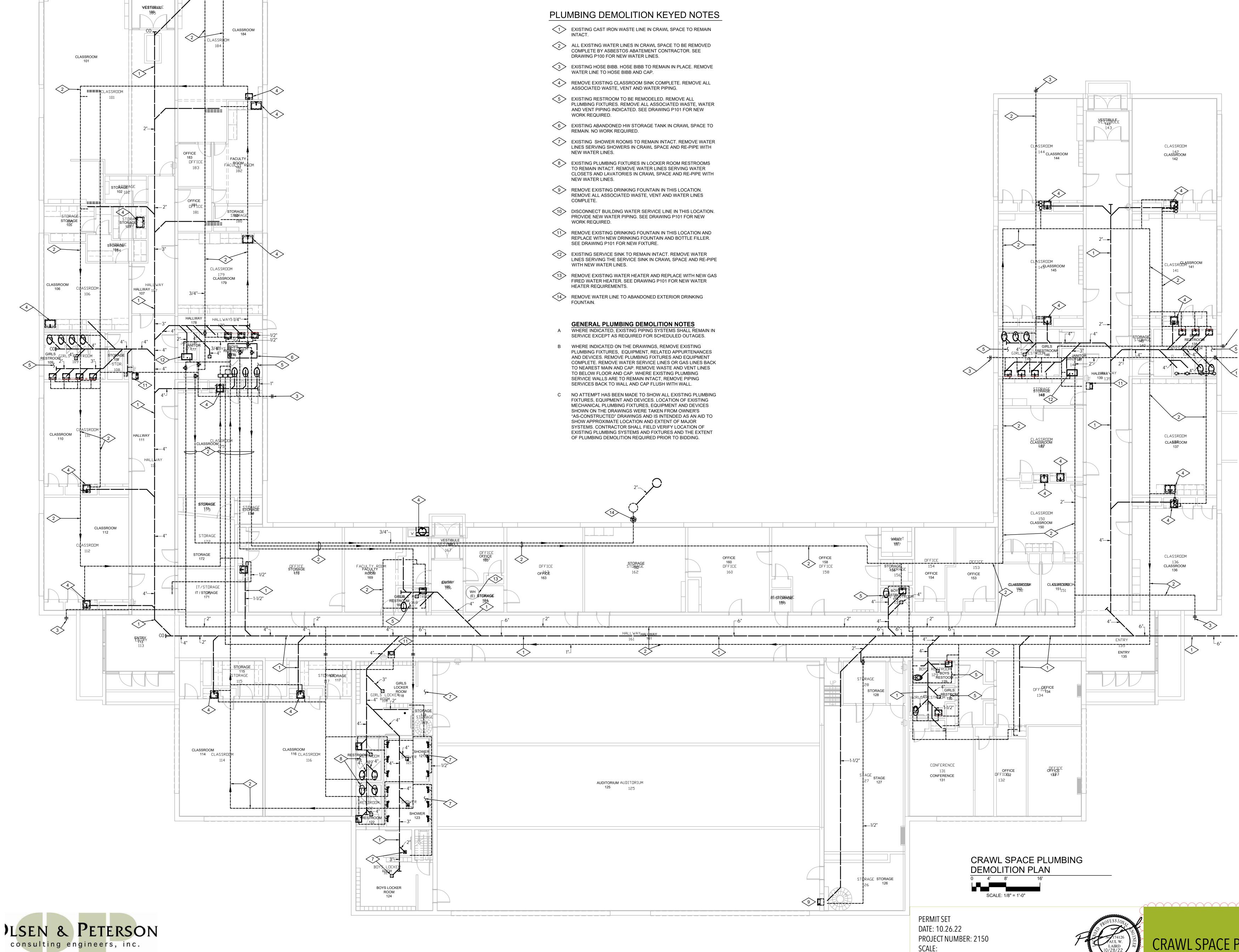
(5) SIZING AND ROUTING OF REFRIGERATION PIPING TO BE DETERMINED BY HEAT PUMP MANUFACTURER. PROVIDE SHOP DRAWINGS AND SCHEMATIC LADDER DIAGRAMS INDICATING LENGTHS AND SIZES OF ALL REFRIGERATION PIPING FROM OUTDOOR HEAT PUMPS TO BRANCH CONTROLLERS, TO INDOOR CASSETTE UNITS. .

		A	AC CONDENS	ING UNI	IT AN	D WA	LL M	OUN ⁻	TED F	FAN (COIL	SCHE	DULE	
ID	LOCATION	CFM	NOMINAL COOLING	DESIGN COOLING	ELEC	TRICAL R	EQUIREM	ENTS	REFRI	GERANT F	REQUIREM	IENTS	WEIGHT (LBS)	MAKE & MODEL
U	LOCATION	RANGE	CAPACITY (BTU/H)	OUTDOOR TEMP	POWER	MCA	MOP	RATED AMPS	TYPE	LIQUID	VAPOR (HIGH)	VAPOR (LOW)	WEIGHT (LBS)	(1)(2)(3)(4)(5)
AC-1	IT/STORAGE 171	290-380	8,000 -18,000		208/1/60	1.00	15	0.33	R-410A	1/4"	1/2"	1	29	MITSUBISHI PKA-A18HA4
AC-2	IT ROOM 186	290-380	6,000 -12,000		208/1/60	1.00	15	0.33	R-410A	1/4"	1/2"	1	29	MITSUBISHI PKA-A12HA4
AC-1	ROOF MOUNTED	1200	8,000 -18,000	95	208/1/60	13.00	20	12	R-410A	1/4"	1/2"	1	95	MITSUBISHI PUY-A18NHA4
AC-2	ROOF MOUNTED	1200	6,000 -12,000	95	208/1/60	13.00	20	12	R-410A	1/4"	1/2"	-	90	MITSUBISHI PUY-A12NHA4

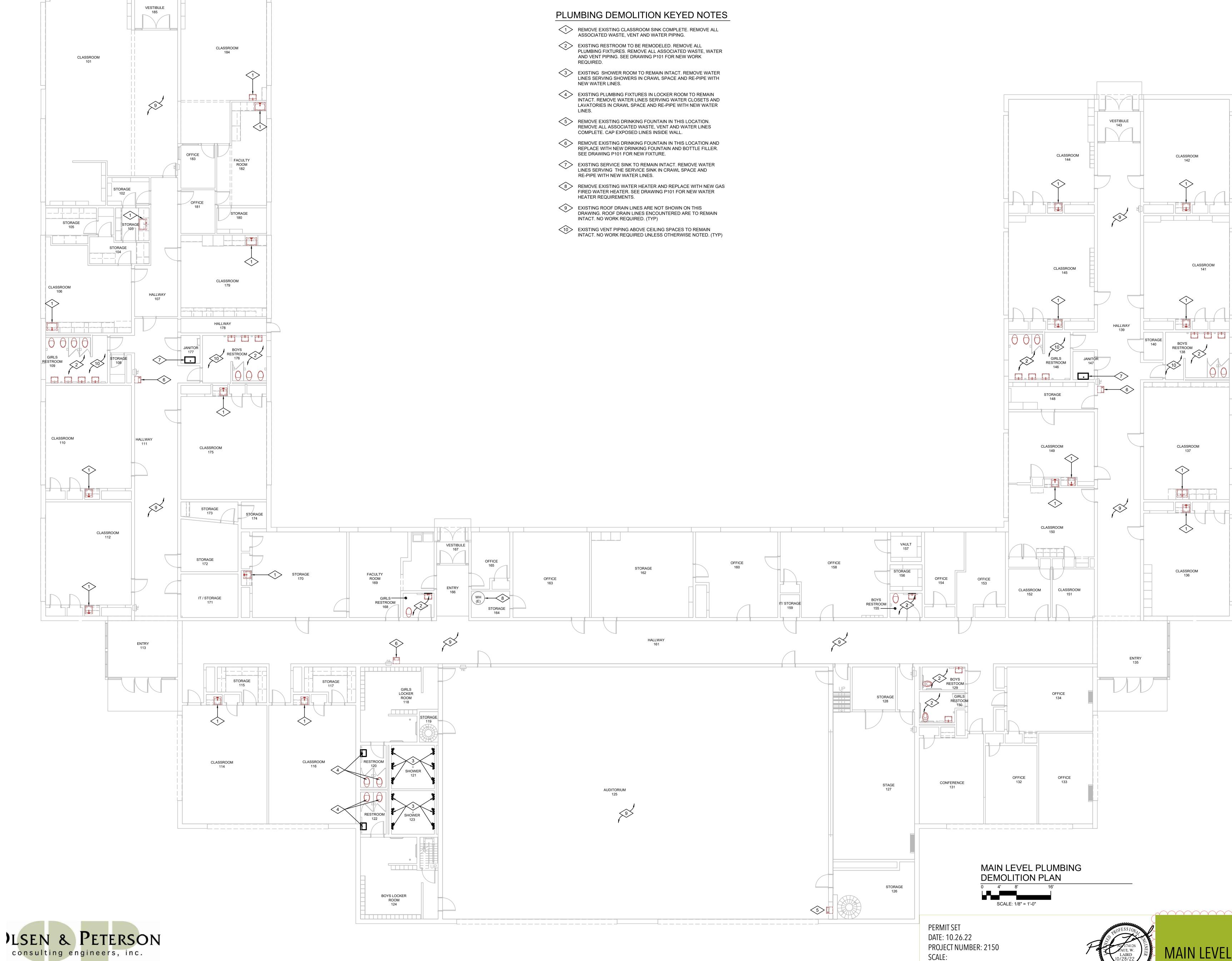
- (1) PROVIDE OUTDOOR UNIT WITH 18 IN. HIGH BASE RAILS WITH VIBRATION ISOLATION.
- (2) PROVIDE SINGLE POINT POWER CONNECTION TO OUTDOOR UNIT WITH FIELD MOUNTED ELECTRICAL DISCONNECT. INDOOR UNITS TO RECEIVE POWER FROM OUTDOOR UNIT.
- (3) INDOOR UNITS TO BE MOUNTED HIGH ON WALL IN IT ROOMS. COORDINATE LOCATION OF INDOOR UNITS WITH ELECTRICIAN AND OWNER'S IT SPECIALIST. (4) PROVIDE INTEGRAL CONDENSATE LIFT PUMP (5 GPH @ 20" HEAD) WITH 5/8" CONDENSATE DRAIN CONNECTION FOR EACH INDOOR UNIT.
- (5) PIPE CONDENSATE DRAIN LINE FULL SIZE TO FLOOR SINK, SERVICE SINK OR PLUMBING VENT.



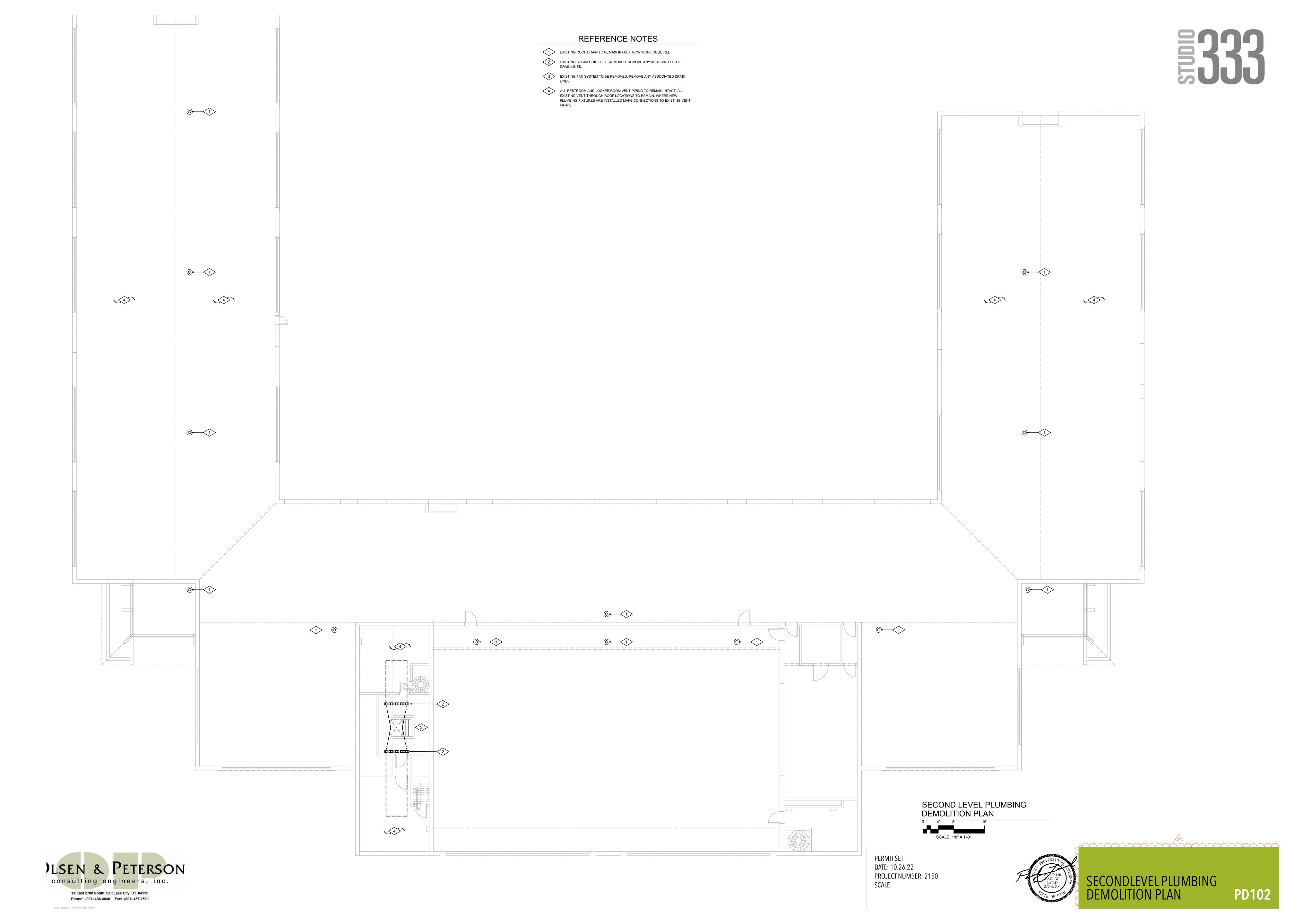


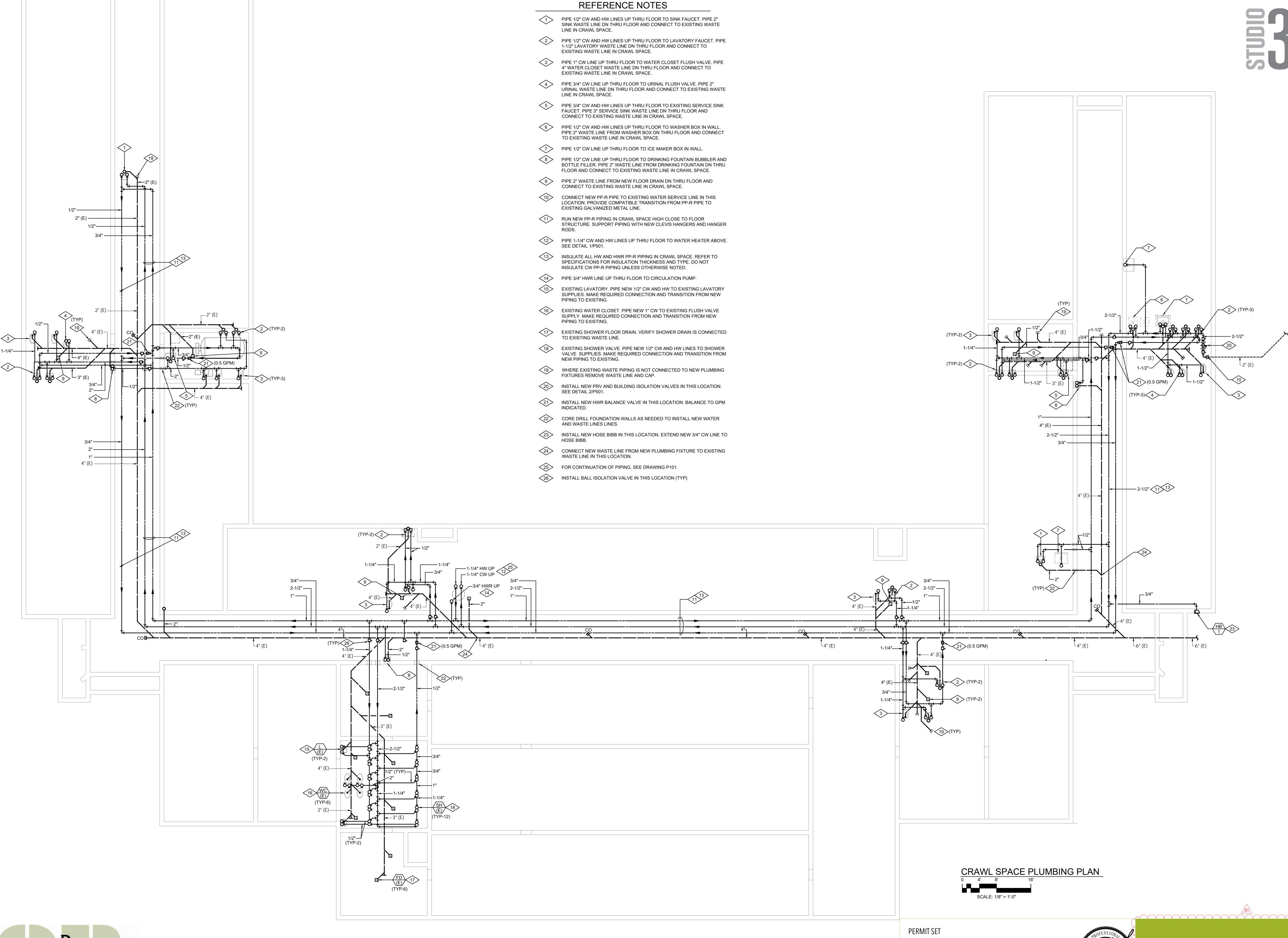


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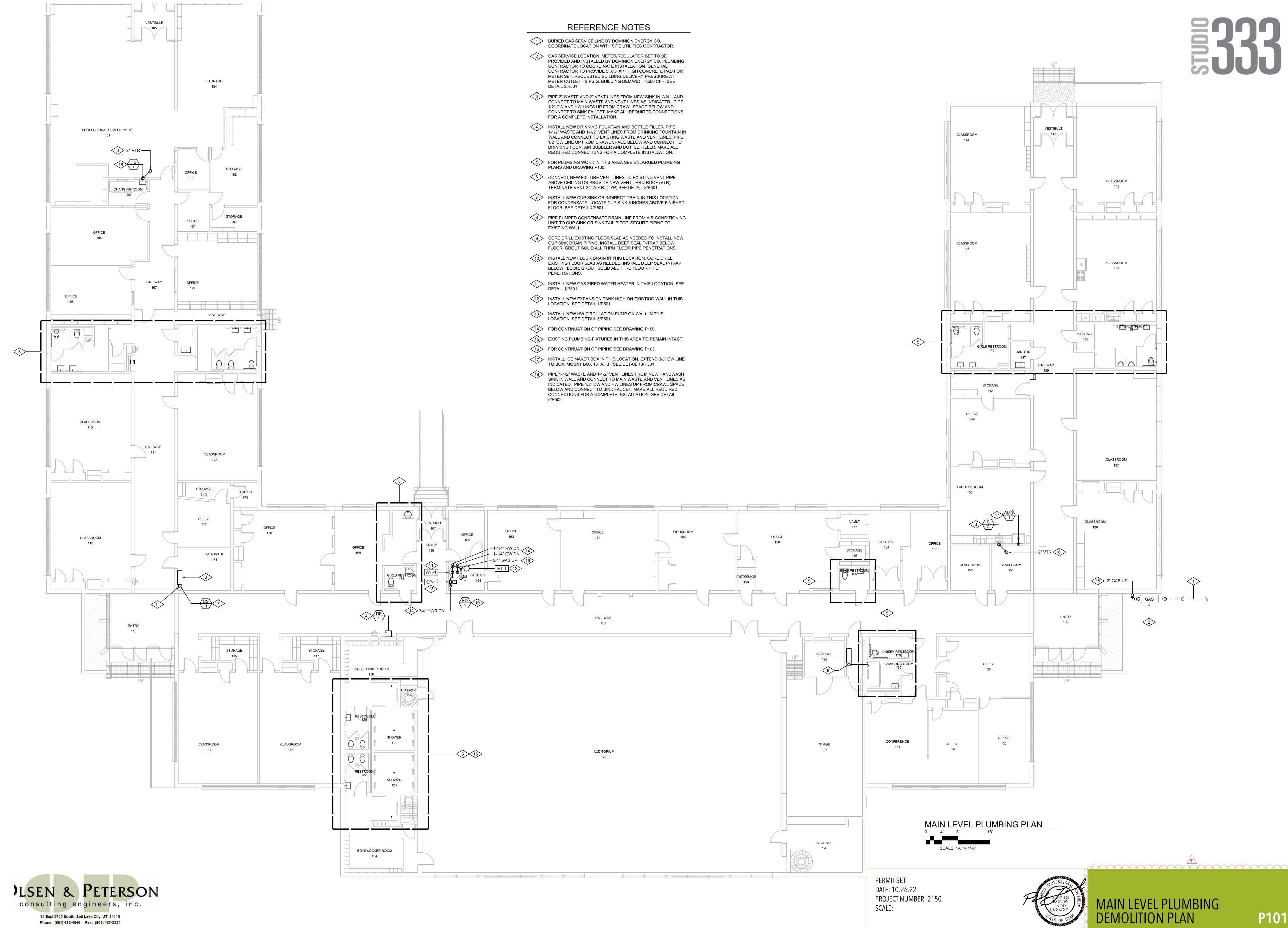


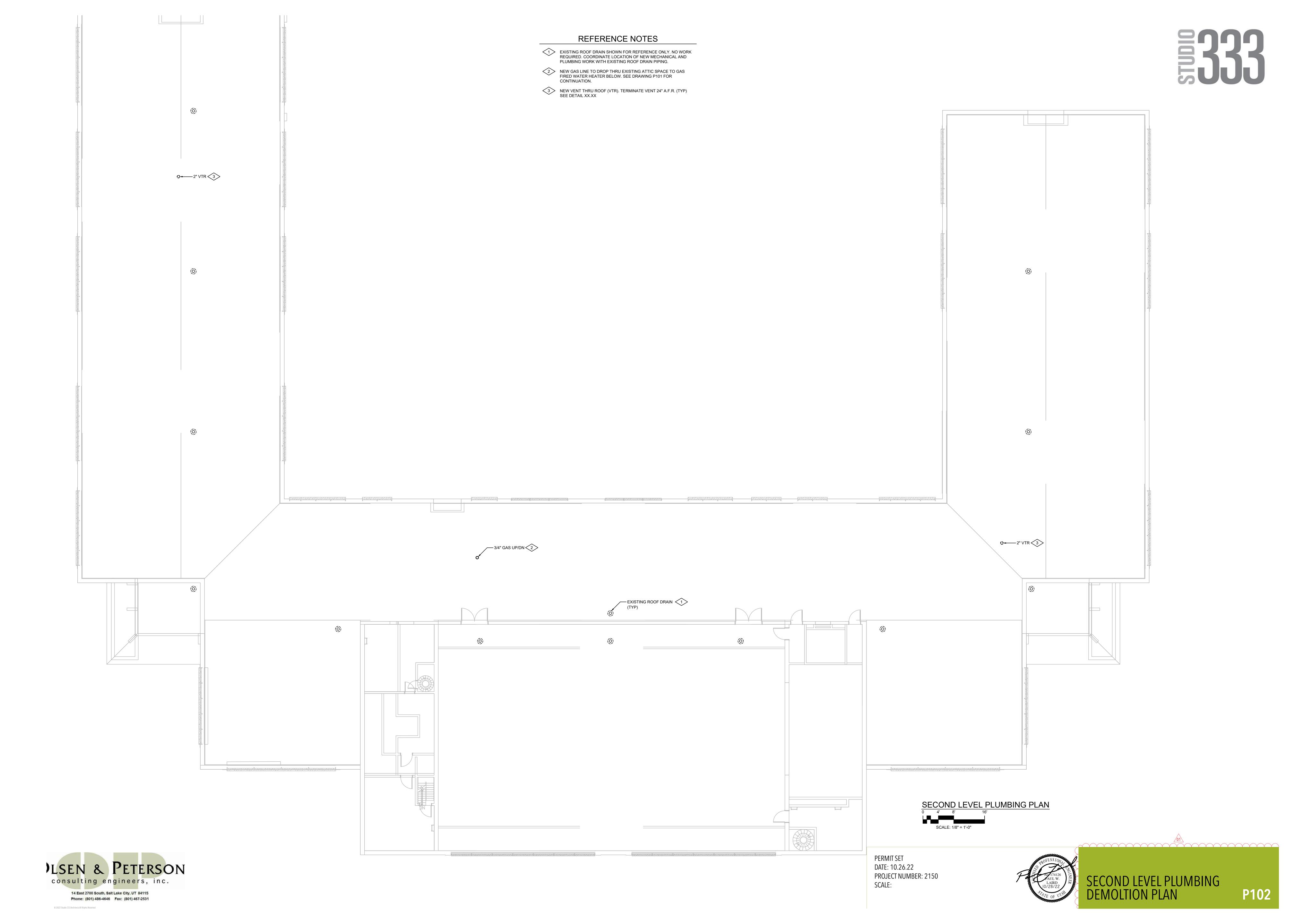


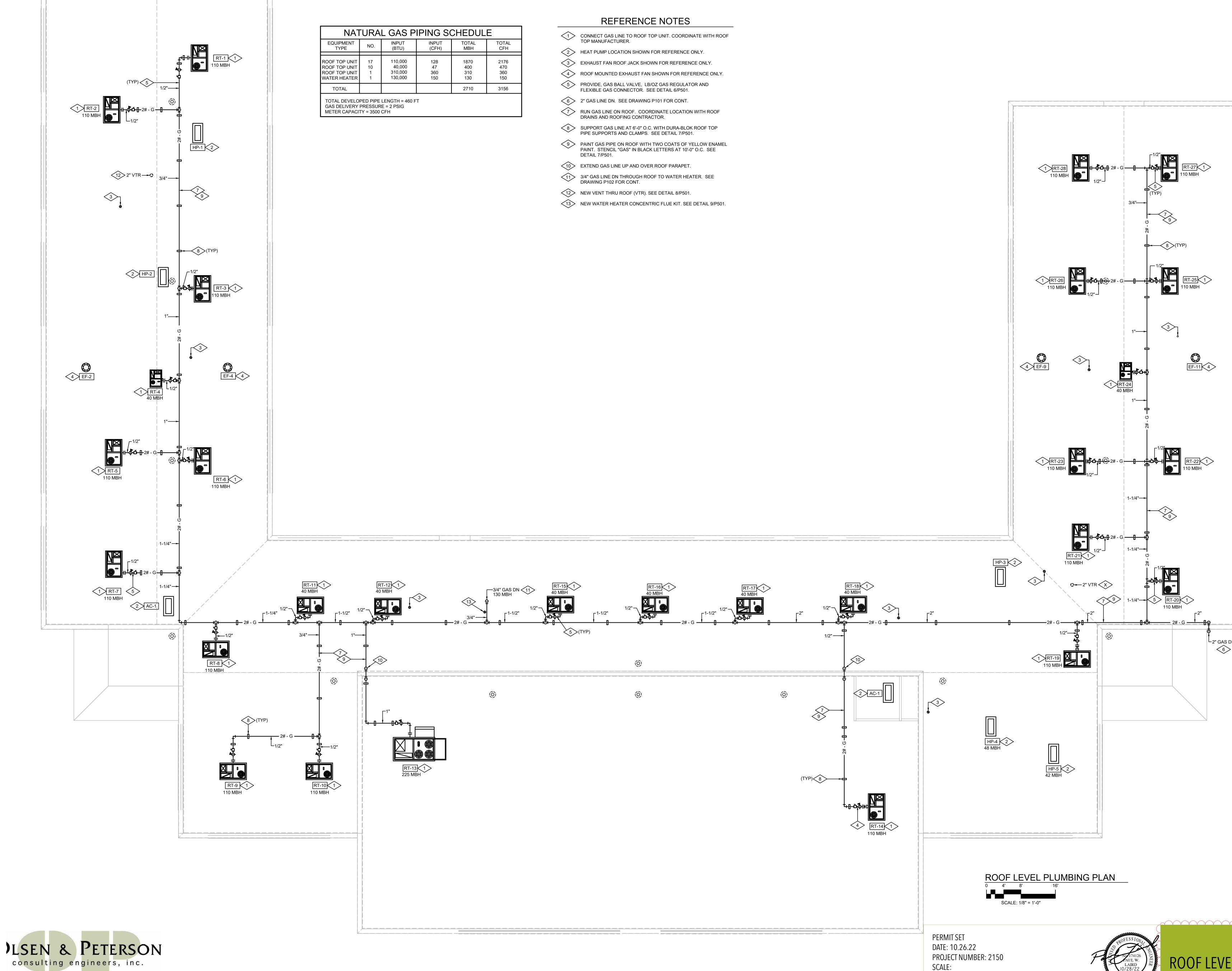




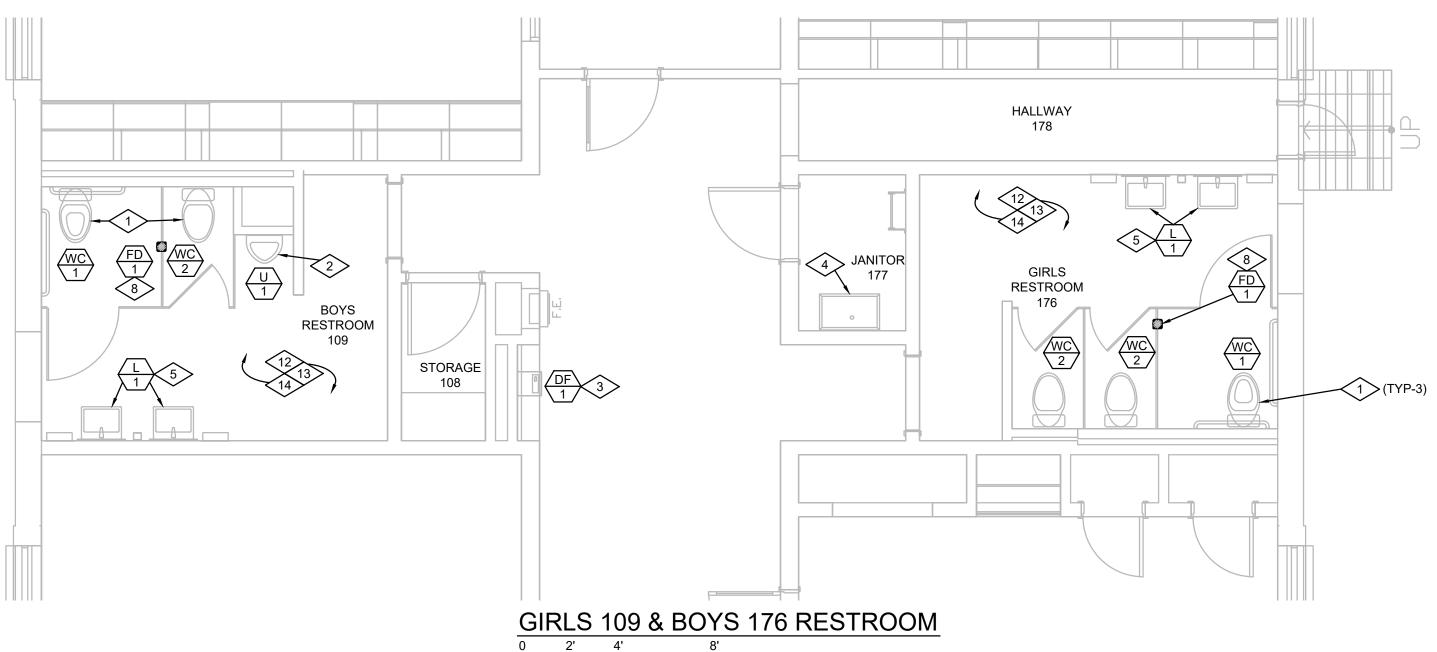
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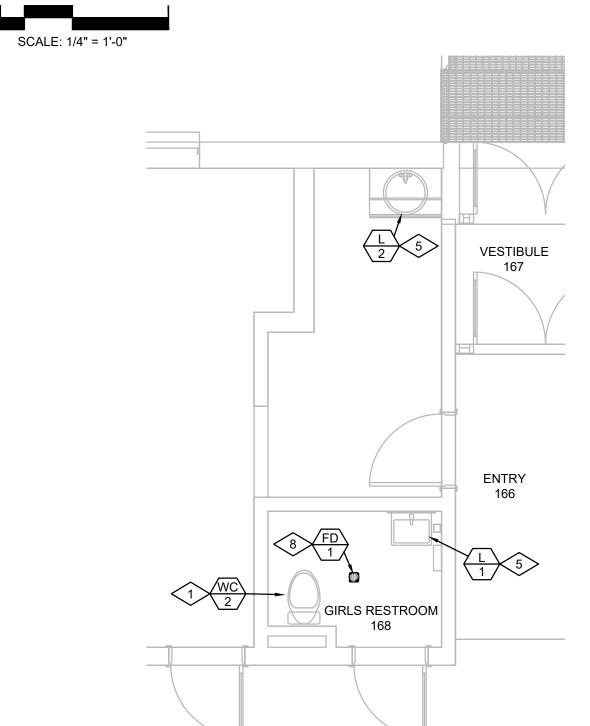


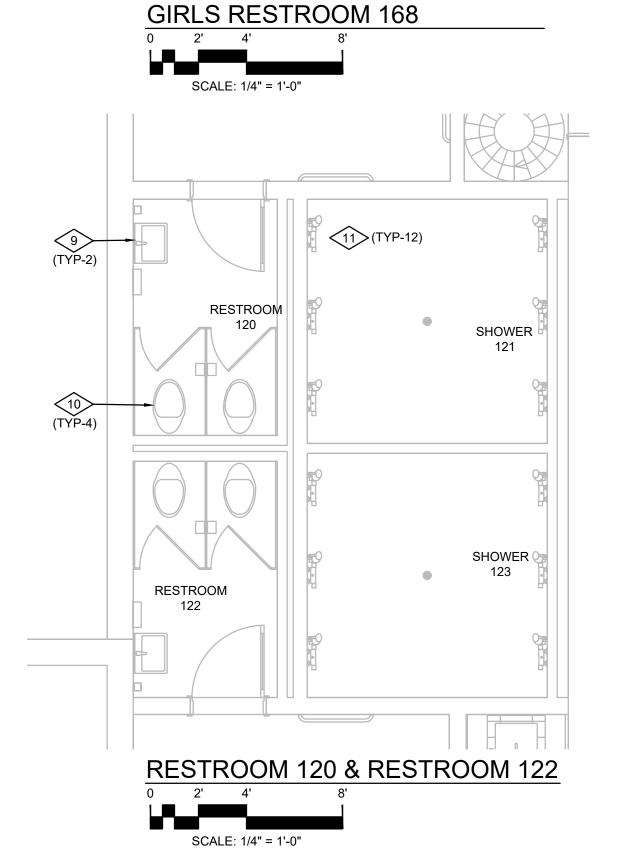


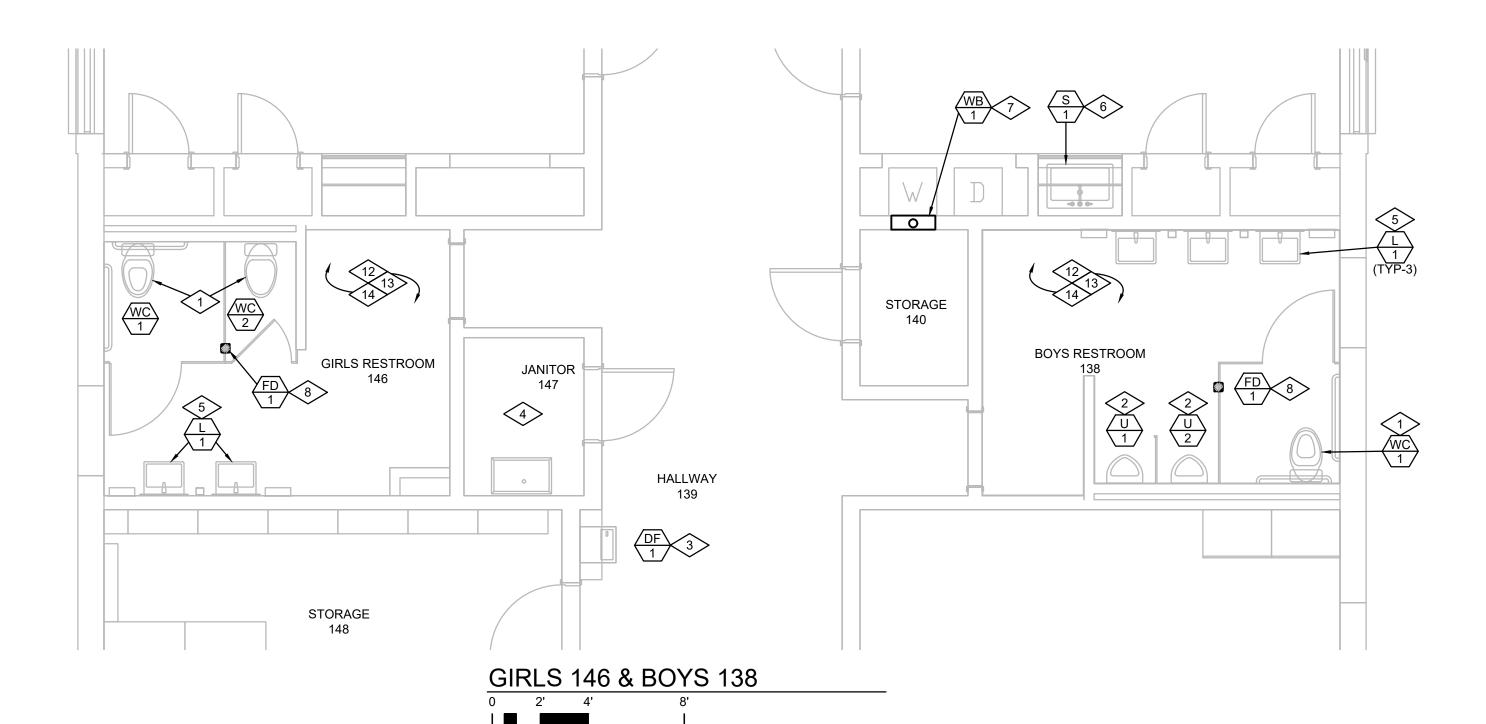


14 East 2700 South, Salt Lake City, UT 84115 Phone: (801) 486-4646 Fax: (801) 467-2531 ROOF LEVEL PLUMBING
PLAND
10/28/22
PLAND
P









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

REFERENCE NOTES

- PIPE 4" WASTE AND 2" VENT LINES FROM FLOOR MOUNTED WATER CLOSET AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 1" CW LINE UP FROM CRAWL SPACE IN WALL AND CONNECT TO FLUSH VALVE.
- PIPE 3" WASTE AND 2" VENT LINES FROM WALL MOUNTED URINAL AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 3/4" CW LINE UP FROM CRAWL SPACE IN WALL AND CONNECT TO FLUSH VALVE.
- PIPE 2" WASTE AND 2" VENT LINES FROM WALL MOUNTED DRINKING FOUNTAIN AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 1/2" CW LINE UP FROM CRAWL SPACE IN WALL AND CONNECT TO BUBBLER AND BOTTLE FILLER.
- EXISTING SERVICE SINK. CONNECT NEW 3/4" CW AND HW LINES IN CRAWL SPACE TO EXISTING SERVICE SINK SUPPLIES.
- PIPE 1-1/2" WASTE AND 1-1/2" VENT LINES FROM WALL MOUNTED LAVATORY AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 1/2" CW AND HW LINES UP FROM CRAWL SPACE IN WALL AND CONNECT TO LAVATORY FAUCET.
- PIPE 2" WASTE AND 2" VENT LINES FROM COUNTER MOUNTED SINK AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 1/2" CW AND HW LINES UP FROM CRAWL SPACE IN WALL AND CONNECT TO SINK FALICET.
- 7 INSTALL WASHER BOX 34" A.F.F. PIPE 2" WASTE AND 2" VENT LINES FROM WASHER BOX AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE AND EXISTING VENT LINE IN ATTIC SPACE. PIPE 1/2" CW AND HW LINES UP FROM CRAWL SPACE IN WALL AND CONNECT TO WASHER BOX OUTLETS.
- 8 INSTALL NEW FLOOR DRAIN. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION. PIPE 2" WASTE LINE FROM FLOOR DRAIN AND CONNECT TO EXISTING WASTE LINE IN CRAWL SPACE.
- 9 EXISTING LAVATORY. CONNECT NEW 1/2" CW AND HW LINES IN CRAWL SPACE TO EXISTING LAVATORY SUPPLIES.
- EXISTING WATER CLOSET. CONNECT NEW 1" CW LINE IN CRAWL SPACE TO EXISTING WATER CLOSET SUPPLY.

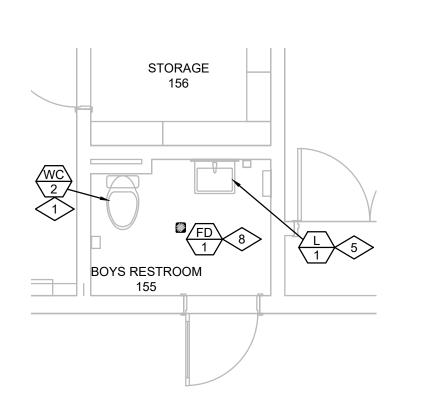
 EXISTING SHOWER VALVE. CONNECT NEW 1/2" CW AND HW LINES
- COORDINATE LOCATION OF ALL NEW WATER SUPPLY AND WASTE LINES IN CRAWL SPACE WITH EXISTING STRUCTURAL FOOTINGS AND FOUNDATIONS. CORE DRILL INTERIOR FOUNDATION WALLS

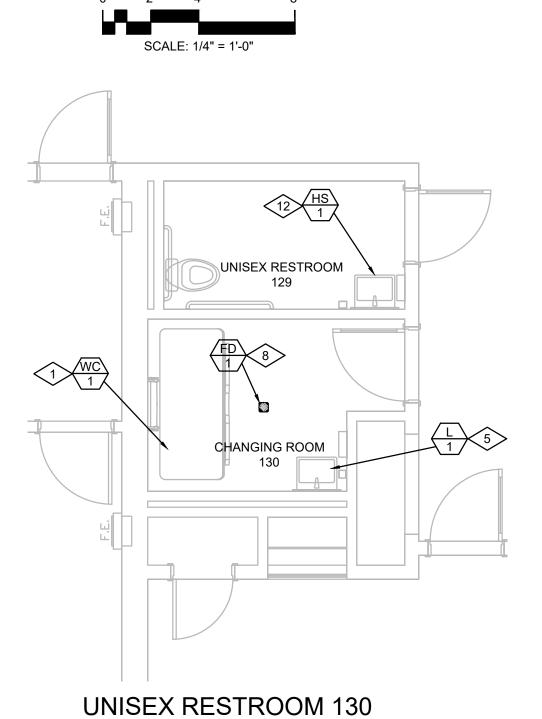
IN CRAWL SPACE TO EXISTING SHOWER VALVE SUPPLIES.

WATER LINES 2-1/2" THRU 1-1/4" IN CRAWL SPACE SHALL BE AQUATHERM GREEN PIPE. WATER LINES 1" AND UNDER IN CRAWL SPACE SHALL BE PEX TUBING. (RED - HW / BLUE-CW). SEE DETAIL

AS NEEDED TO FACILITATE INSTALLATION OF PIPING IN CRAWL

ALL WATER PIPING ABOVE FLOOR SHALL BE TYPE "L" COPPER. PROVIDE REQUIRED PP-R OR PEX TUBING TRANSITIONS FROM COPPER TO PLASTIC IN CRAWL SPACE.



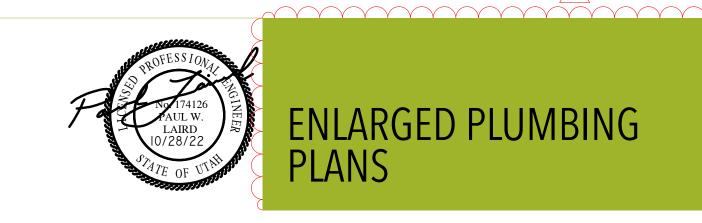


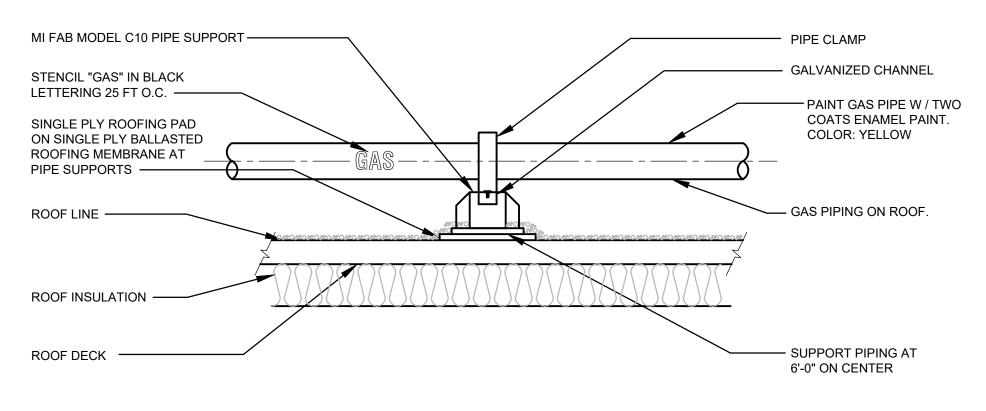
SCALE: 1/4" = 1'-0"

BOYS RESTROOM 155

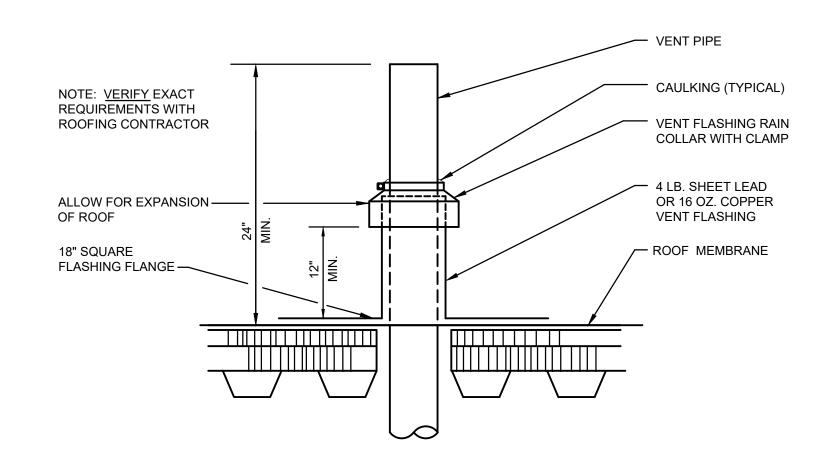


PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE:

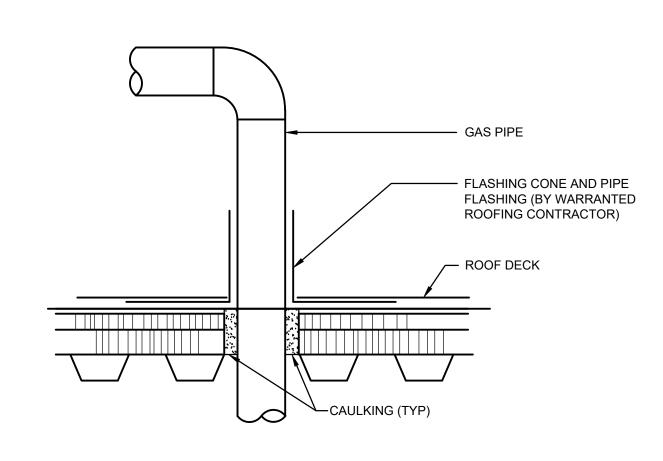




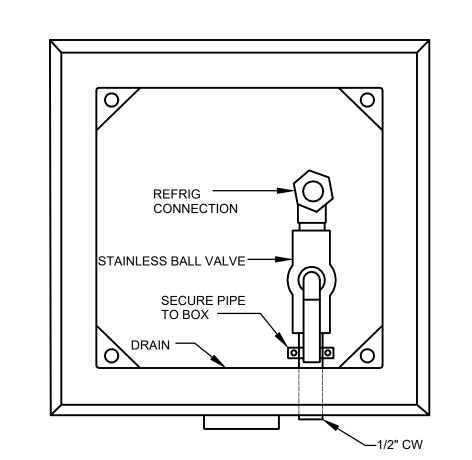




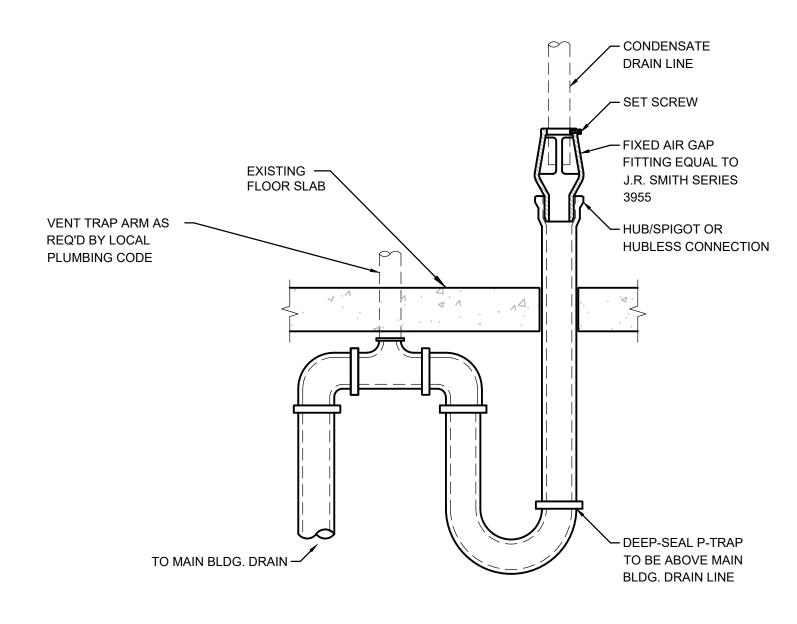




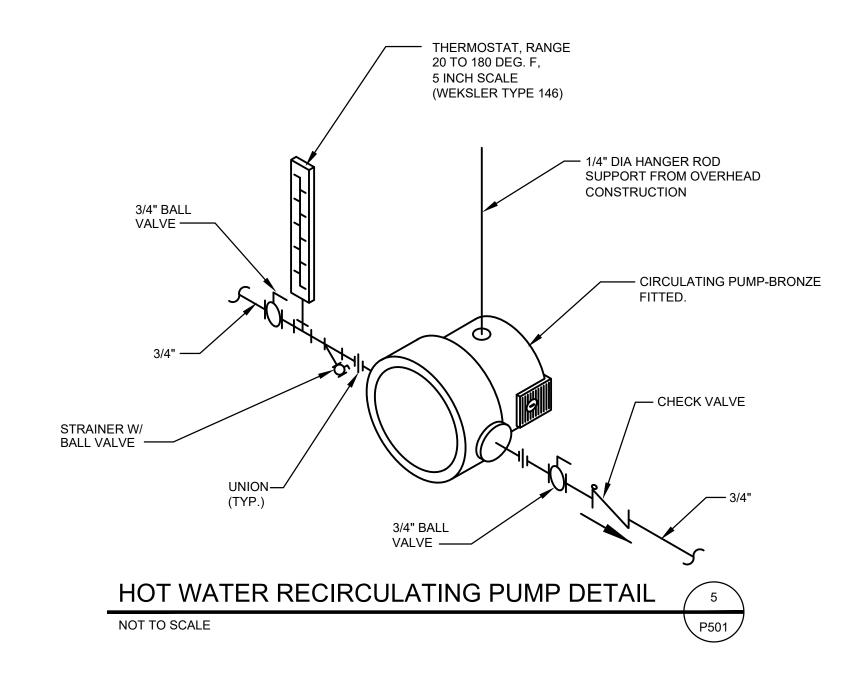


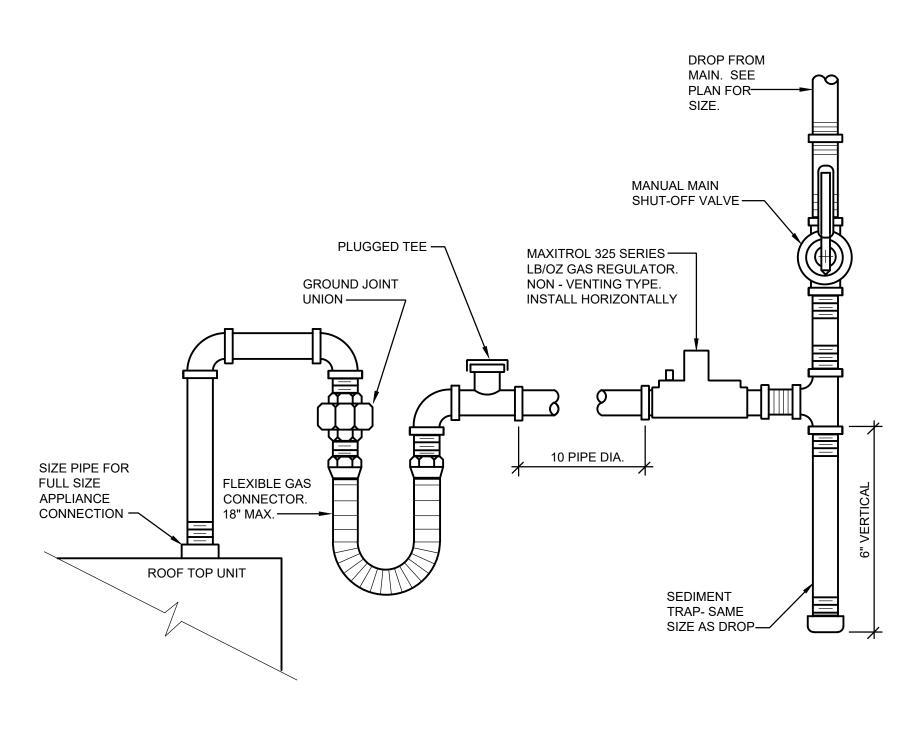






CUP SINK DRAIN DETAIL 4 NOT TO SCALE P501





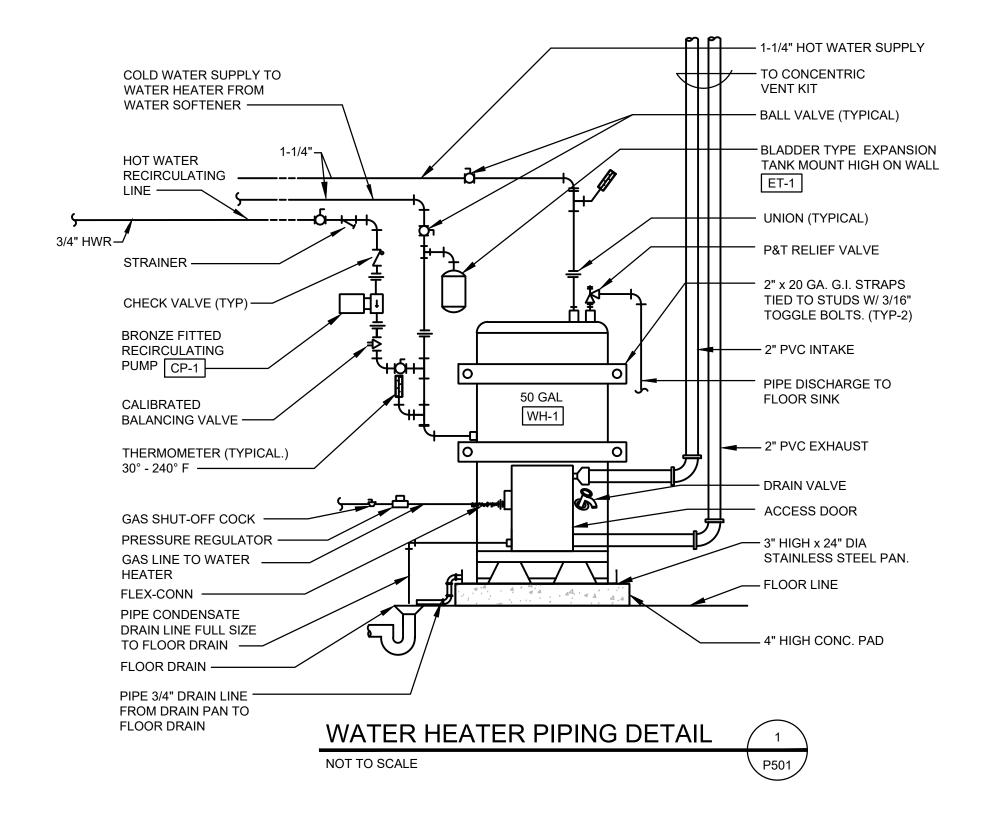
GAS LINE CONNECTION DETAIL

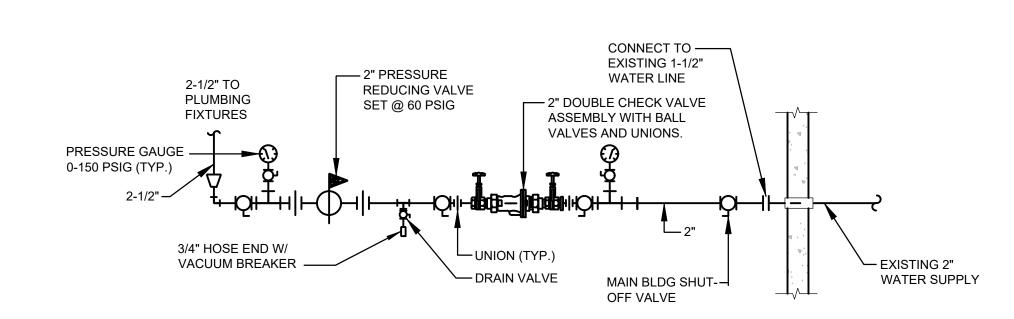
NOT TO SCALE

6
P501

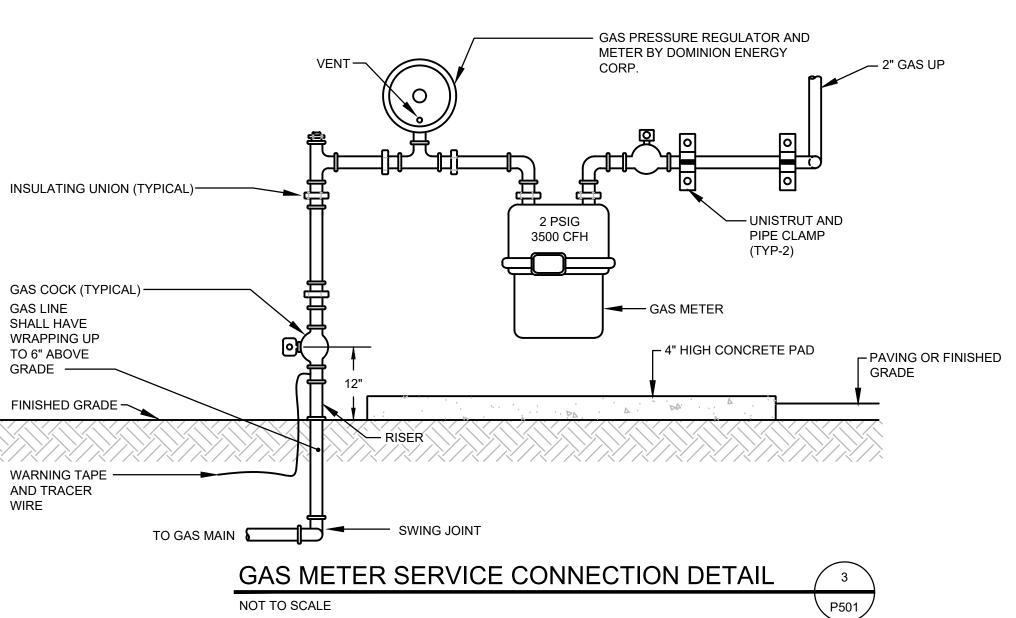










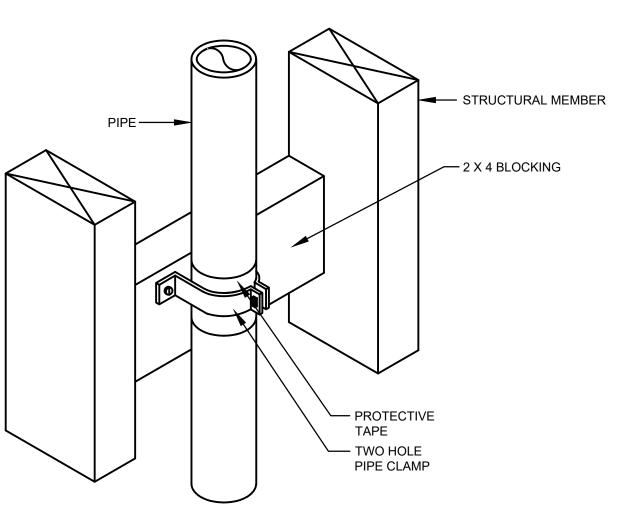


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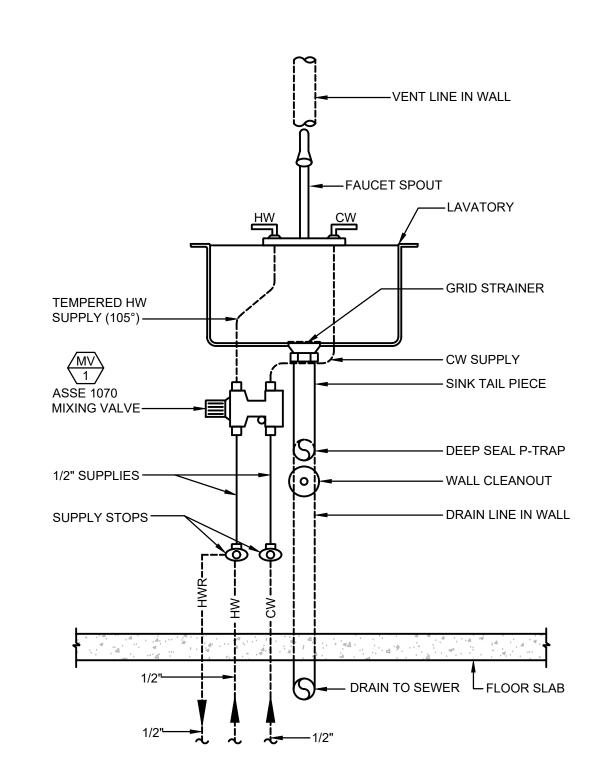




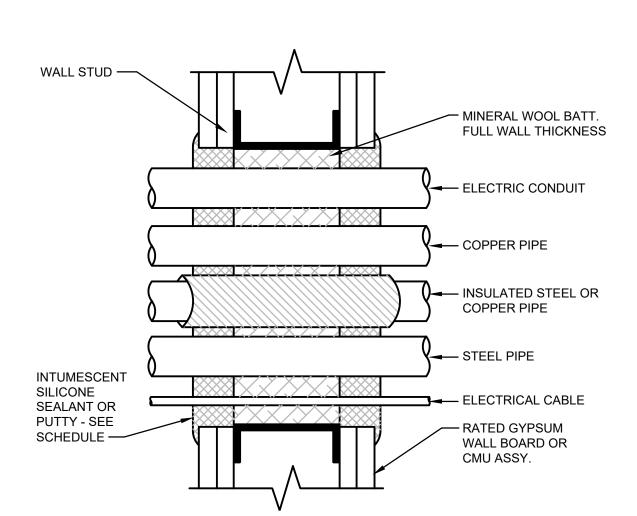






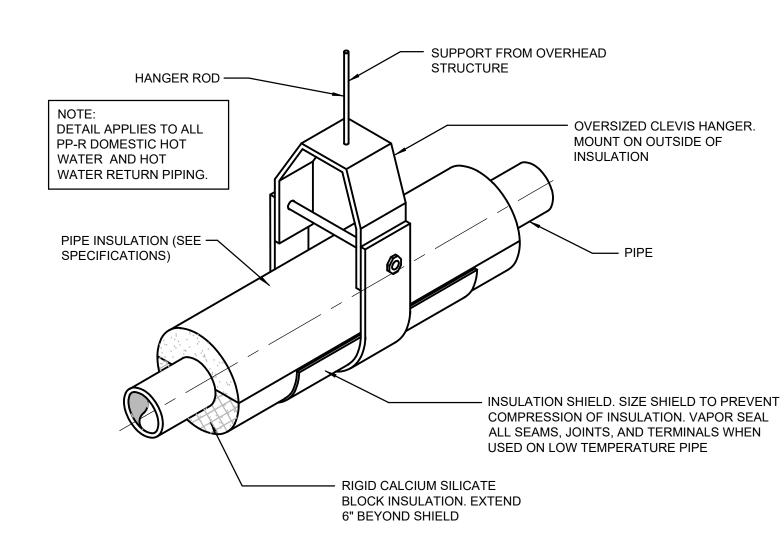






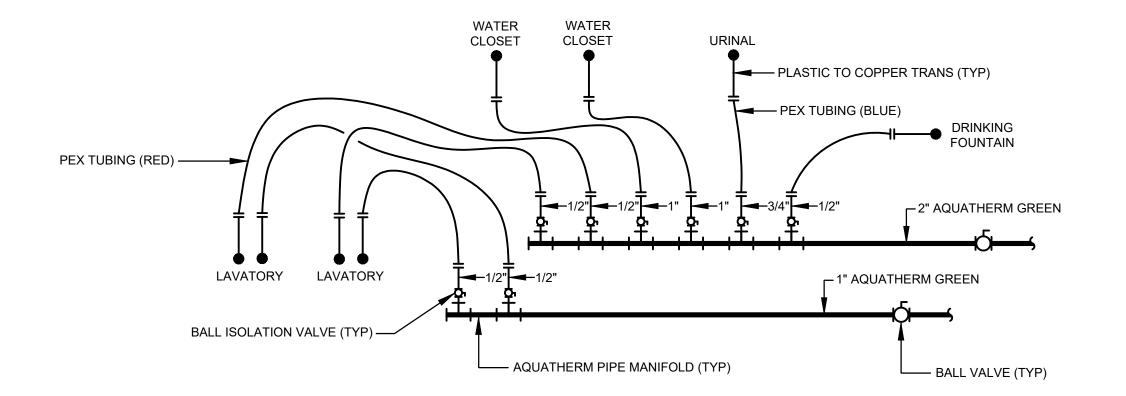
WALL RATING	DEPTH OF SEALANT	SEALANT CROWN
1 HR	1"	1/4"
2 HR	1-1/4"	3/8"
3 HR	1-1/2"	1/2"

PIPE & CONDUIT FIRE STOP DETAIL 1
NOT TO SCALE P502

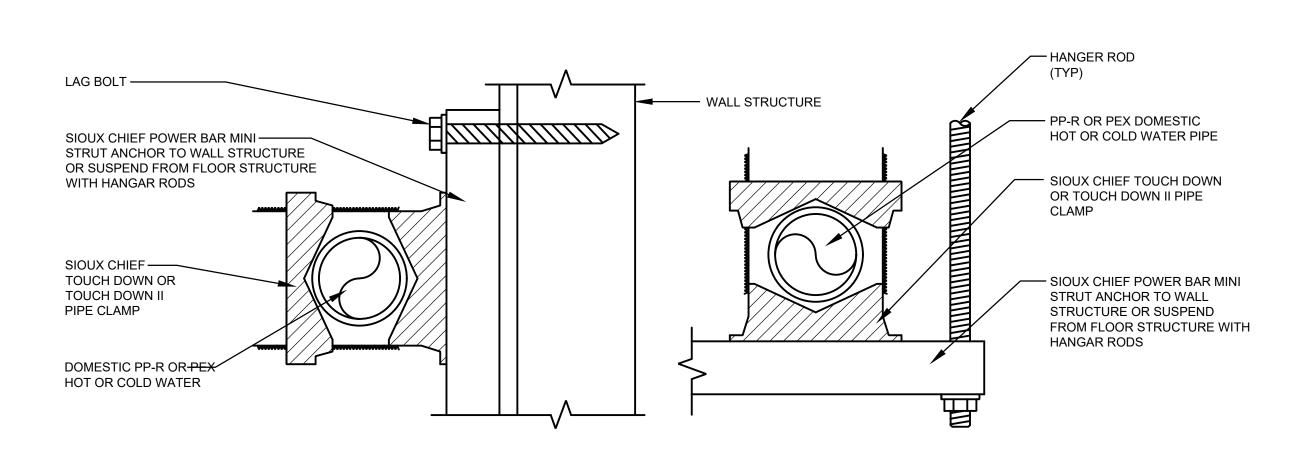


PIPE SUPPORT DETAIL 2

NOT TO SCALE P502

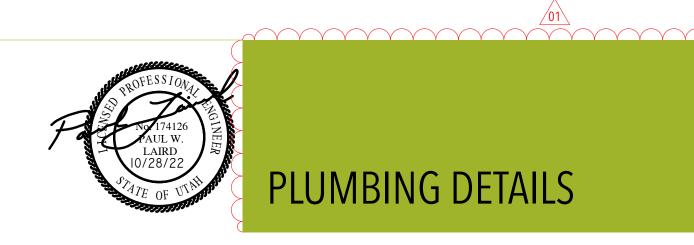


TYPICAL WATER PIPING SCHEMATIC 6
NOT TO SCALE P502





PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE:





	PLUMBING EQUIPMENT SCHEDULE
SYMBOL	EQUIPMENT DESCRIPTION
WH-1	WATER HEATER: GAS FIRED, HIGH EFFICIENCY 96%, CONDENSING DESIGN, STAINLESS STEEL CONSTRUCTION, 2" DIA DIRECT VENT COMBUSTION AIR AND FLUE W/ CONCENTRIC FLUE ROOF KIT. 50 GALLON STORAGE CAPACITY, 130 MBH INPUT, 165 GPH RECOVERY @ 90 DEG F RISE, P&T VALVE, INSULATED CASING 1" INLET AND OUTLET, 3/4" GAS INLET. FURNISH SEISMIC WALL STRAPS AND BALL DRAIN VALVE. MANUFACTURER: STATE MODEL: GHX-50-130-N ELECTRICAL: 120 VOLT, 1 PHASE LCD DISPLAY SIZE: 22" DIA X 62.75" HIGH OPER WEIGHT: 550 LBS
ET-1	EXPANSION TANK: NON-ASME TYPE, 4.4 GALLON TOTAL VOLUME, 0.73 ACCEPTANCE FACTOR, 3/4" NPT CONNECTION, MAXIMUM WORKING PRESSURE = 150 PSIG, NSF 61 LISTED, MAX ALLOWABLE WORKING TEMP = 200 DEG F MANUFACTURER: AMTROL MODEL: ST-12 ELECTRICAL: NONE SIZE: 11" DIA X 15" HIGH OPER WEIGHT: 45 LBS
CP-1	CIRCULATION PUMP: DOMESTIC WATER, BRONZE CONSTRUCTION, STAINLESS STEEL SHAFT, INTEGRAL CHECK VALVE, 5 GPM @ 10 FT HEAD, 1/2" CONNECTIONS, FURNISH COMPLETE WITH AQUASTAT PUMP CONTROLLER SET AT 120 DEG. F. MANUFACTURER: TACO MODEL: 006-IFC ELECTRICAL: 1/25 HP 120 VOLT, 1PHASE SIZE: 2" x 6" x 7" WEIGHT: 7 LBS

	Pl	IPING INSUL	ATION S	SCHEDU	LE					
	INSULATION COND	UCTIVITY	≥ NOMINAL PIPE OR TUBE SIZE, IN.							
FLUID OPERATING TEMPERATURE RANGE	CONDUCTIVITY,	MEAN RATING	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8			
(°F) AND USAGE	BTU IN/ FT ² °F	TEMPERATURE, °F	INSULATION THICKNESS, IN.							
> 350	0.32 TO 0.34	250	4.5	5.0	5.0	5.0	5.0			
251 TO 350	0.29 TO 0.32	200	3.0	4.0	4.5	4.5	4.5			
201 TO 250	0.27 TO 0.30	150	2.5	2.5	2.5	3.0	3.0			
141 TO 200	0.25 TO 0.29	125	1.5	1.5	2.0	2.0	2.0			
105 TO 140	0.22 TO 0.28	100	1.0	1.0	1.5	1.5	1.5			
400 TO 60	0.21 TO 0.27	75	0.5	0.5	1	1.5	1.5			
< 40	0.20 TO 0.29	50	0.5	1.0	1.5	2.0	2.0			

TABLE APPLIES TO ALL DOMESTIC HOT AND COLD WATER SYSTEMS, STORM DRAIN AND REFRIGERANT PIPING SYSTEMS.

	BRA	NCH V	VATER	LINES	SCHED	ULE	
FIVELDE	FIXTURE	TOTAL C	UANTITY OF	FIXTURES S	ERVED BY A	GIVEN PIPE	SIZE
FIXTURE	UNITS	1/2"	3/4"	1"	1 1/4"	1-1/2"	2"
WATER CLOSET	10			1	2	3	8
LAVATORY	2	1	3	5	7	15	50
BREAK ROOM SINK	2	1	3	5	7	15	50
SERVICE SINK	4		1	2	3	7	25
DRINKING FOUNTAIN	1	2	6	10	15	30	
HOSE BIBB	3		1	3	5	10	33
TOTAL FIXTURE UNITS SERVED BY PIPE SIZE		2	6	10	15	30	100

(1) MINIMUM PIPE SIZE TO ANY FIXTURE TO BE 1/2". WHERE PIPE SIZE IS SHOWN ON

DRAWINGS, IT SHALL BE FOLLOWED. (2) WATER SUPPLY FIXTURE UNITS: 18.65

BUILDING SERVICES PIPING MATERIALS LISTING AND IDENTIFICATION

<u>Potable Water Piping Systems:</u>
Above Floor - Copper pipe and tubing meeting requirements of ASTM B 88, Type L with wrought copper sweat fittings with 95/5 or 96/4 Tin-Antimony solder. Identification: Cold Water (CW): Blue Lettering on White Background. Hot Water (HW): Red Lettering on White Background.

Below Floor - Aquatherm Green Pipe 3" and under, PP-R resin pipe and fusion fittings meeting requirements of ASTM F 2389. Extruded type pipe with thermal welded fusion fittings Certified by NSF International as complying with NSF 14, NSF 61, and ASTM F 2389 or CSA B137.11. Use Aquatherm Pipe for all Domestic Water Mains

Below Floor - Sioux Chief PowerPEX, 1" thru 1/2" sizes branch piping only. Cross-linked polyethylene (PEX) tubing meeting requirements of SDR 9, ASTM F876 and ASTM F877 CSA International B137.5, with mechanical flare or crimp fittings. Use red for hot water and blue for cold water. Provide Copper to PEX tubing transitions.

Sanitary Waste and Vent Piping Systems:

Above Floor - ABS Schedule 40 solid-wall ASTM D 2661, plastic pipe and socket type fittings, made to ASTM D 3311, drain, waste, and vent patterns. Joined using pipe cement meeting requirements of ASTM 2235.

Above Floor - PVC Schedule 40 solid-wall ASTM D 2665, plastic pipe and socket type fittings, made to ASTM D 3311, drain, waste, and vent patterns. Joined using cement primer meeting requirements of ASTM F 656 and pipe cement meeting requirements of ASTM D 2564.

Below Floor - ABS Schedule 40 solid-wall ASTM D 2661, plastic pipe and socket type fittings, made to ASTM D 3311, drain, waste, and vent patterns. Joined using pipe cement meeting requirements of ASTM 2235.

Below Floor - PVC Schedule 40 solid-wall ASTM D 2665, plastic pipe and socket type fittings, made to ASTM D 3311, drain, waste, and vent patterns. Joined using cement primer meeting requirements of ASTM F 656 and pipe cement meeting requirements of ASTM D 2564.

Below Floor - Service weight, no-hub type cast iron soil pipe and fittings meeting requirements of ASTM A 74 with neoprene gaskets with type 304 and 24 ga type 304 stainless steel clamps. Minimum of 4 clamps.

Hard copper tubing meeting requirements of ASTM B 280, hard drawn straight lengths with wrought copper brazed fittings with AWS Classification BCuP-4 Copper Phosphorus or AWS Classification

copper trace wire and warning tape.

BCuP-5 Copper Phosphorus rods and white brazing or high quality silver solder flux. Identification: Black Lettering on Yellow Background

Above Floor - Schedule 40 black carbon steel pipe meeting requirements of ASTM A 53 with standard weight butt welded steel forged welding type fittings. Identification: Black Lettering on Yellow Painted Background. Painting: All exposed gas piping on roof shall be painted with two coats of yellow enamel grade paint and

Below Grade - Polyethylene pipe and fittings meeting requirements of ASTM D 2513 with No. 14 coated

	PLU	JMBI	NG F	IXTU	RE S	SCHEDULE
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES (1)
WC 1	WATER CLOSET	4"	2"	1"		FLOOR MOUNTED - (ADA) FLUSH VALVE
$\frac{\text{WC}}{2}$	WATER CLOSET	4"	2"	1"		FLOOR MOUNTED FLUSH VALVE
$\left\langle \begin{array}{c} L \\ 1 \end{array} \right\rangle$	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED - (ADA)
$\left(\begin{array}{c} L \\ 2 \end{array}\right)$	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER TOP MOUNTED
$\left\langle \begin{array}{c} U \\ 1 \end{array} \right\rangle$	URINAL	3"	2"	3/4"	1	WALL MOUNTED - (ADA) FLUSH VALVE
$\left(\begin{array}{c} U\\2\end{array}\right)$	URINAL	3"	2"	3/4"	1	WALL MOUNTED FLUSH VALVE
FD 1	FLOOR DRAIN	2"	1-1/2"	-	-	WITH DEEP SEAL P-TRAP AND ASSE PROSET TRAP GUARD
DF 1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	-	SINGLE LEVEL - ELECTRIC W/ BOTTLE FILLER - (ADA) 120V /1/60 POWER
HS 1	HAND WASH SINK	1-1/4"	1-1/4"	1/2"	1/2"	SINGLE COMPARTMENT (ADA) WALL MOUNTED
$\left\langle \begin{array}{c} S \\ 1 \end{array} \right $	WASH TUB SINK	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL DEEP TUB COUNTER MOUNT
$\left(\begin{array}{c} S \\ 2 \end{array}\right)$	BREAK ROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL UNDER COUNTER MOUNTED
HB 1	HOSE BIBB			3/4"	1	NON FREEZE TYPE
$\frac{MV}{1}$	MIXING VALVE			3/8"	3/8"	UNDER SINK MIXING VALVE ASSE 1070 WATTS LEMM-UT-MI
(IMB)	ICE MAKER BOX			3/8"		RECESSED WALL MOUNT
WB 1	WASHER BOX	2"	2"	1/2"	1/2"	RECESSED TYPE - OATEY 38477

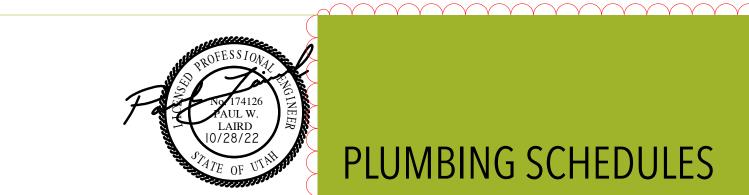


- A. CODE COMPLIANCE: ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC) AND NATIONAL ELECTRICAL CODE (NEC) INCLUDING ALL STATE AND LOCAL AMENDMENTS AND LIFE SAFETY CODES ENFORCED OR CURRENTLY IMPLEMENTED BY THE BUILDING AUTHORITY HAVING JURISDICTION IN WHICH THE PROJECT RESIDES.
- B. COORDINATION PROCEDURES: CONTRACTOR SHALL COORDINATE ALL PLUMBING (P) WORK WITH THE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL (M), AND ELECTRICAL TRADES OF THIS PROJECT. REFER TO DRAWINGS, SPECIFICATIONS, SUBMITTALS AND SHOP DRAWINGS OF THE VARIOUS TRADES FOR PROJECT SPECIFIC REQUIREMENTS FOR COORDINATION PURPOSES.
- DRAWINGS: DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED. PIPE ROUTING, PLUMBING EQUIPMENT AND FIXTURE LOCATIONS INDICATED ON THE DRAWINGS IS APPROXIMATE. NO ATTEMPT HAS BEEN MADE TO SHOW ALL PLUMBING OFFSETS, EQUIPMENT AND DEVICES. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL PLUMBING EQUIPMENT AND FIXTURES REQUIRED PRIOR TO BIDDING. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND TRANSITIONS AS NEEDED TO FACILITATE INSTALLATION OF THE PLUMBING SYSTEMS IN HARMONY WITH THE OTHER RESPECTIVE TRADES OF THE PROJECT.
- D. EQUIPMENT SELECTIONS: ALL PROJECT EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE SELECTED TO MEET AND OPERATE AT THE CAPACITIES INDICATED IN THE CONTRACT DOCUMENTS AT THE JOB SITE CONDITIONS. JOB SITE CONDITIONS INCLUDE ELEVATION ABOVE SEA LEVEL, AMBIENT SUMMER AND WINTER DRY BULB/WET BULB TEMPERATURES, WIND DIRECTION AND PROPERTY LINES.
- SUBMITTALS: PRODUCT DATA FOR ALL PLUMBING EQUIPMENT AND MATERIALS TO BE PROVIDED BY THE PLUMBING CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AS PART OF THE SUBMITTAL PROCESS IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO ORDERING, PURCHASING OR INSTALLATION.
- WORKMANSHIP: ALL PLUMBING WORK TO BE INSTALLED IN A PROFESSIONAL AND WORKMANLIKE MANNER. INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONSTRUCTION INDUSTRY STANDARDS.
- G. INVERTS: ALL INVERT PIPE ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED OFF OF A FINISHED FLOOR ELEVATION OF 100'-0". THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL AND SITE CIVIL CONTRACTOR FOR PIPE CONNECTION LOCATIONS. PLUMBING CONTRACTOR SHALL CONNECT TO THE SITE UTILITY PIPING; MATCHING PIPING SIZE AND MATERIAL OR PROVIDING COMPATIBLE TRANSITIONS.
- H. SEISMIC CONDITIONS: ALL PLUMBING PIPING AND EQUIPMENT INSTALLED SHALL BE SEISMICALLY BRACED OR RESTRAINED IN COMPLIANCE WITH REQUIREMENTS IN THE IBC. PROVIDE VIBRATION ISOLATION AND SEISMIC-RESTRAINT DEVICES, RESTRAINTS AND SUPPORTS AS REQUIRED. PROVIDE AND SUBMIT SEISMIC RESTRAINT CALCULATIONS, DETAILS, DESIGN CRITERIA AND ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- WARRANTY: THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL PLUMBING MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE NEW AND OF GOOD QUALITY, UNLESS OTHERWISE REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS NOT INHERENT IN THE QUALITY REQUIRED OR PERMITTED; AND THAT THE WORK WILL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. WARRANTY PERIOD FOR THIS WORK SHALL EXTEND FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION.
- J. CHANGES: IF CONCEALED OR UNKNOWN PHYSICAL CONDITIONS ARE ENCOUNTERED AT THE SITE THAT DIFFER MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS OR FROM THOSE CONDITIONS ORDINARILY FOUND TO EXIST, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER OR ARCHITECT OF THOSE CONDITIONS. THE CONTRACTOR SHALL BE INSTRUCTED AND DIRECTED ON HOW TO PROCEED WITH ANY REQUIRED CHANGES. THE CONTRACT SUM AND CONTRACT TIME SHALL BE SUBJECT TO EQUITABLE ADJUSTMENT FOR CHANGES TO THE CONTRACT DOCUMENTS FOR SUCH CHANGES . SHOULD THE CONTRACTOR PROCEED WITH THE WORK WITHOUT INSTRUCTION, NOTIFICATION OF CHANGE OR AN APPROVED CHANGE ORDER; HE DOES SO AT HIS OWN FINANCIAL RISK.
- K. EXISTING CONDITIONS: PRIOR TO BIDDING OR BEGINNING THE WORK THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND COMPARE THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. ACCEPTANCE OF THE CONTRACT IS ACKNOWLEDGMENT BY THE CONTRACTOR THAT HE HAS VISITED THE SITE AND IS AWARE AND ACCEPTING OF THE EXISTING CONDITIONS.
- L. CLEANUP: DURING THE CONSTRUCTION AND UPON COMPLETION OF THE WORK, THE PLUMBING CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS NOT ECONOMICALLY RECOVERABLE SHALL BE REMOVED, TRANSPORTED AND LEGALLY DISPOSED OF OFF-SITE.
- M. UTILITY INTERRUPTIONS: EXISTING PLUMBING UTILITIES SHALL REMAIN IN SERVICE EXCEPT AS REQUIRED FOR SCHEDULED INTERRUPTIONS. INTERRUPTIONS OF SERVICE OR UTILITIES SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT AT LEAST TWO WEEKS IN ADVANCE.
- N. TIME IS OF THE ESSENCE: THE CONTRACTOR SHALL COMMENCE WORK UNDER THIS CONTRACT UPON RECEIPT OF THE OWNER'S WRITTEN NOTICE TO TO PROCEED. THE CONTRACTOR SHALL COMPLETE THE WORK AND HAVE IT READY FOR SUBSTANTIAL COMPLETION INSPECTION BY THE DATE NOTED IN THE CONTRACT.

PLUMBING PIPING LEGEND

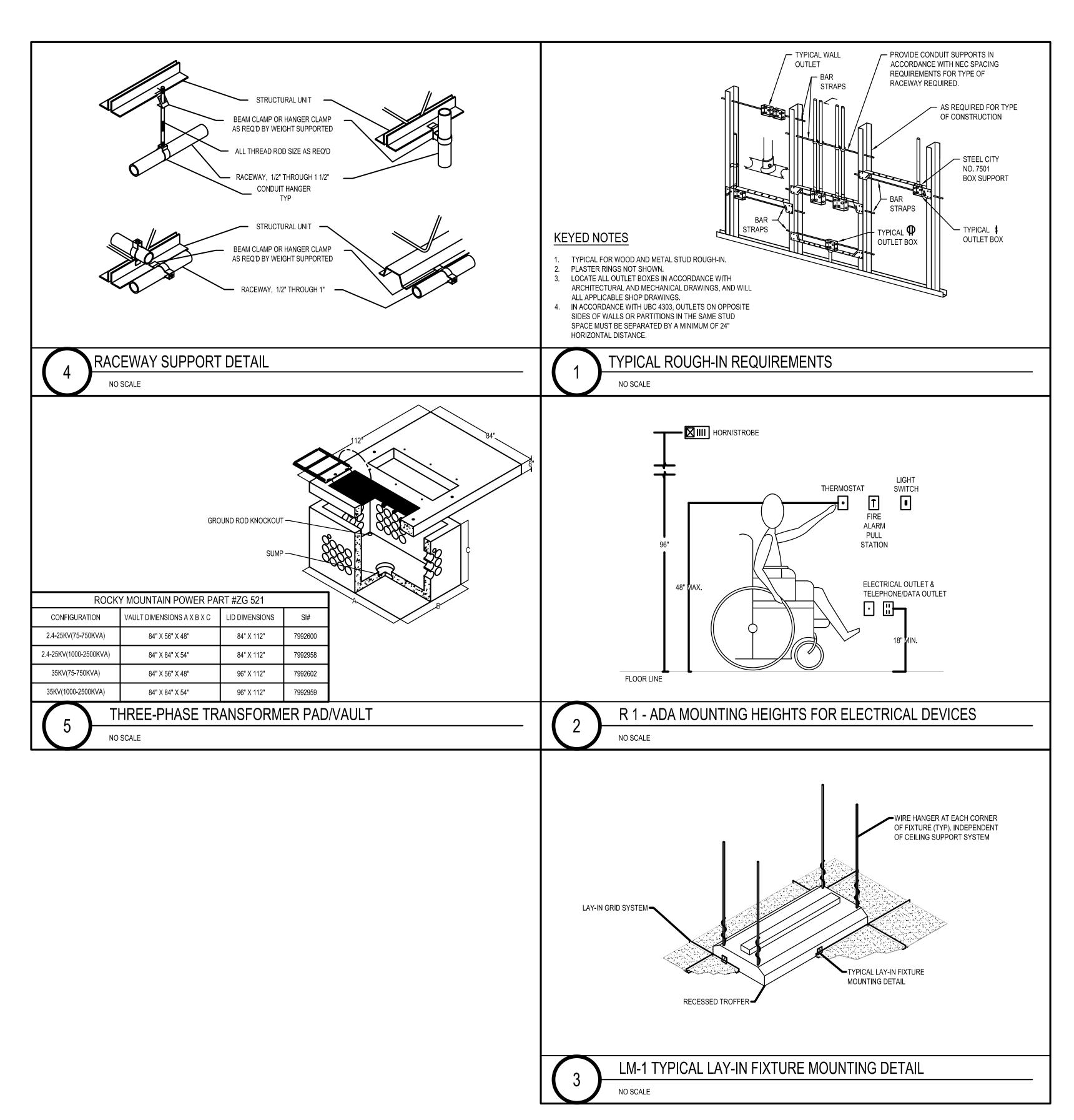
DESCRIPTION	SYMBOL
WASTE	
VENT	
COLD WATER	
HOT WATER	
NATURAL GAS	
	_





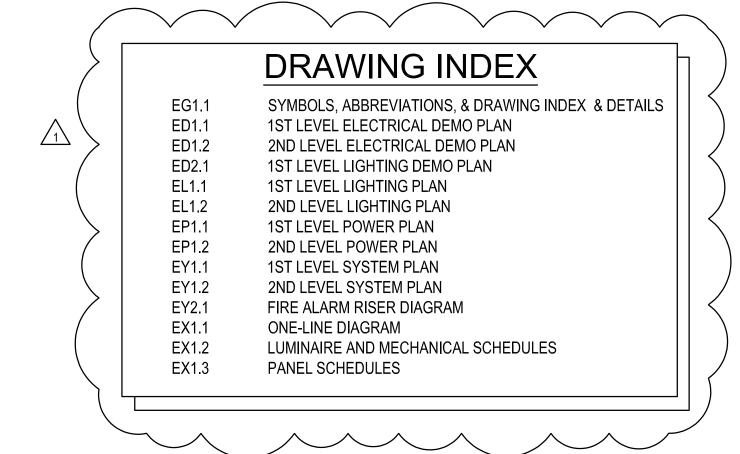
SCALE:

⁽¹⁾ CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN OR INSTALLATION.



ABBREVIATIONS NEW RELOCATED DEMOLISH/DELETE ABOVE FINISHED FLOOR AMP INTERRUPTING CURRENT (SYMMETRICAL) BELOW GRADE CONDUIT CONTRACTOR FURNISHED CONTRACTOR INSTALLED CFCI CIRCUIT CLG CEILING CONDUIT ONLY ABOVE COUNTER DEVICE **EMERGENCY** DOMESTIC HOT WATER RECIRC. ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM FACP FIRE ALARM CONTROL PANEL FULL LOAD AMPS GROUND FAULT INTERRUPTER GROUND FAULT PROTECTOR GROUND GALVANIZED RIGID CONDUIT ISOLATED GROUND LIGHTING LTG MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MAIN LUGS ONLY NOTIFICATION APPLIANCE CIRCUIT NOT IN CONTRACT NIGHT LIGHT NTS NOT TO SCALE OFCI OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED SWITCHED SPD SURGE PROTECTIVE DEVICE SHUNT TRIP TYP TYPICAL UNLESS NOTED OTHERWISE VANDAL RESISTANT WG WIRE GUARD WEATHER PROOF XFMR TRANSFORMER

	ELECTRICAL LEGEND											
	NOTE: ALL ITEMS MAY NOT APPEAR O	ON DRAWINGS										
• •	LINEAR SUSPENDED PENDANT FIXTURE	#	QUADRAPLEX RECEPTACLE, PEDESTAL MOUNTED									
/ ////	LINEAR SUSPENDED PENDANT FIXTURE (EMERGENCY POWER)	<u></u>	JUNCTION BOX									
	RECESSED DOWN LIGHT		JUNCTION BOX, FLUSH IN FLOOR									
	RECESSED DOWN LIGHT (EMERGENCY POWER)	\boxtimes	MAGNETIC STARTER									
	RECESSED LIGHT FIXTURE	\boxtimes \vdash	MANUAL STARTER									
	RECESSED LIGHT FIXTURE (EMERGENCY POWER)	0	MOTOR CONNECTION									
\bigcirc	RECESSED WALL MOUNTED LIGHT FIXTURE	\$ T	THERMAL SWITCH									
$ \mathbf{\hat{P}} $	RECESSED WALL MOUNTED LIGHT FIXTURE (EMERGENCY POWER)	M EH	COMBINATION STARTER/FUSED DISCONNECT SWITCH									
\odot	CEILING SURFACE / PENDANT SUSPENDED FIXTURE		COMBINATION STARTER/NON-FUSED DISCONNECT SWITCH									
$\nabla \nabla \nabla$	LIGHT TRACK WITH LIGHT FIXTURE	F	FUSED DISCONNECT SWITCH									
<u> </u>	STRIP LIGHT FIXTURE		NONFUSE DISCONNECT SWITCH									
	SURFACE LIGHT FIXTURE	_	RECESSED ELECTRICAL PANELBOARD									
	SURFACE LIGHT FIXTURE (EMERGENCY POWER)		RECESSED EQUIPMENT CABINET AS NOTED									
О	WALL MOUNTED LIGHT FIXTURE	_	SURFACE ELECTRICAL PANEL									
O	WALL MOUNTED LIGHT FIXTURE		SURFACE EQUIPMENT CABINET									
	WALL MOUNTED LIGHT FIXTURE (EMERGENCY POWER)	$\overline{f y}^{\#}$	DATA OUTLET-ABOVE COUNTER: # INDICATES QTY.; NO DESIGNATION =(2) DATA OUTLET									
\$ 3K	3-WAY KEY SWITCH	$oxdots^{\#}$	DATA OUTLET-FLUSH IN FLOOR:# INDICATES QTY.; NO DESIGNATION =(2) DATA OUTLET									
\$ 3	3-WAY SWITCH	$\nabla^{\#}$	DATA OUTLET: # INDICATES QTY.; NO DESIGNATION =(2) DATA OUTLET									
\$ 4	4-WAY SWITCH	CM	FIRE ALARM CONTROL MODULE									
\$ x	EXPLOSION PROOF	Z	FIRE ALARM FSD CONTROL RELAY									
\$ K	KEY SWITCH	MM	FIRE ALARM MONITOR MODULE									
\$ _{LM}	LOW VOLTAGE MASTER	FSD	FIRE SMOKE DAMPER									
\$ LV	LOW VOLTAGE SWITCH	<u>\$</u>	DUCT SMOKE DETECTOR									
\$ M	MOMENTARY CONTACT SWITCH	F	FIRE ALARM MANUAL PULL STATION									
\$₽	PILOT LIGHT	◆\$>	FIRE ALARM PRESSURE SWITCH									
\$ PB	PUSHBUTTON SWITCH	€\$>	FLOW SWITCH									
\$ RC	REMOTE CONTROL	\oplus	HEAT DETECTOR									
\$	SINGLE POLE SWITCH	$\triangleleft $	O.S. & Y. VALVE TAMPER SWITCH									
\$ _{VR}	SWITCH WITH VANDAL RESISTANT COVER PLATE	(3)	PHOTO ELECTRIC SMOKE DETECTOR									
Ю	DIMMER SWITCH, WALL MOUNT	F≺	FIRE ALARM HORN									
OS	OCCUPANCY SENSOR, CEILING MOUNT	FV	FIRE ALARM VISUAL SIGNAL									
Hos	OCCUPANCY SENSOR, WALL MOUNT	FV≺	FIRE ALARM VISUAL SIGNAL WITH HORN									
	PHOTO CELL	ANN	FIRE ALARM ANNUNCIATOR									
PP	POWER PACK	FACP	FIRE ALARM CONTROL PANEL									
SP	SLAVE POWER PACK	FAVE	FIRE ALARM VOICE EVACUATION PANEL									
HTS 	DIGITAL TIME SWITCH	NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER									
₩	COMBO FLOORBOX WITH DUPLEX RECEPTACLE AND DATA	RFCC	REMOTE FIRE COMMAND CENTER									
	COMBO FLOORBOX WITH QUADRAPLEX RECEPTACLE AND DATA	\bigcirc	DRAWING NOTE DESIGNATOR									
\ominus	DUPLEX RECEPTACLE	#	LIGHT FIXTURE DESIGNATION									
•	DUPLEX RECEPTACLE (EMERGENCY POWER)		MECHANICAL EQUIPMENT DESIGNATION									
+	DUPLEX RECEPTACLE GFI		CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR									
-	DUPLEX RECEPTACLE ISOLATED GROUND		CONDUIT CONCEALED IN WALLS, CEILING OR FLOOR									
Ø	DUPLEX RECEPTACLE, FLUSH CEILING		EQUIPMENT GROUND CONDUCTOR									
Ø	DUPLEX RECEPTACLE, FLUSH CEILING ISOLATED GROUND		EXISTING CONDUIT									
Ф	DUPLEX RECEPTACLE, FLUSH IN FLOOR	~~~	FLEXIBLE CONDUIT									
0	DUPLEX RECEPTACLE, PEDESTAL MOUNTED	•	STUB DOWN									
(a)	POKE-THRU DEVICE	3	STUB OUT									
#	QUADRAPLEX RECEPTACLE	0	STUB UP									
+	QUADRAPLEX RECEPTACLE GFI	ξ	BREAKER									
•	QUADRAPLEX RECEPTACLE ISOLATED GROUND		TRANSFORMER (ONE-LINES)									





PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE: 1' = 1'-0"

					<u> </u>		<u> </u>	<u> </u>		IANICAL EQUII				1	CTABLES		Januarie = -	AFFLICA		
ID#	DESCRIPTION	VOLT	PH	HP RATING AMPS	WATTS RATING	S AMPS	MCA	FLA	AMPS	MANUAL STARTER	DISCONN	FUSE SIZE	FURN, BY	TYPE	STARTER SIZE FURN. BY WII	Ee	WIRING REQUIRE GROUND	CONDUIT	BREAKER	NOTES
RT-1	ROOFTOP UNIT	208	3	RATING AMPS	RATING	AWFS	20.0			MANUAL STARTER	30	25	w/ Unit	TIPE	SIZE FORN. BY WIF	10	1 # 10	3/4"	30	
RT-2	ROOFTOP UNIT	208	3				28.0				60	35	w/ Unit		3 #	8	1 # 10	3/4"	40	
RT-3	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-4	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-5	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-6	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-7	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-8	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	10	1 # 10	3/4"	30	
RT-9 RT-10	ROOFTOP UNIT	208	3				26.0				60 30	35 25	w/ Unit w/ Unit		3 #	8	1 # 10	3/4"	35	
RT-11	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	10	1#10	3/4"	30	
RT-12	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	10	1#10	3/4"	30	
RT-13	ROOFTOP UNIT	208	3				88.6				200	125	w/ Unit		3 #	1	1#6	1-1/2"	125	
RT-14	ROOFTOP UNIT	208	3				28.0				60	35	w/ Unit		3 #	8	1 # 10	3/4"	35	
RT-15	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	8	1 # 10	3/4"	30	1.
RT-16	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	6	1#8	3/4"	30	1.
RT-17	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	6	1#8	3/4"	30	1.
RT-18	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	6	1#8	3/4"	30	1.
RT-19	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	6	1#8	3/4"	30	1.
RT-21	ROOFTOP UNIT	208	3				20.0				30	25 30	w/ Unit		3 #	6	1#8	3/4"	30	1.
RT-21	ROOFTOP UNIT	208	3				21.1				30	25	w/ Unit w/ Unit		3 #	4	1#8	1"	30	1.
RT-23	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	4	1#8	1"	30	1.
RT-24	ROOFTOP UNIT	208	3				21.1				30	30	w/ Unit		3 #	4	1#8	1"	30	1.
RT-25	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	4	1#8	1"	30	1.
RT-26	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	4	1#8	1"	30	1.
RT-27	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	4	1#8	1"	30	1.
RT-28	ROOFTOP UNIT	208	3				20.0				30	25	w/ Unit		3 #	4	1#8	1"	30	1.
EF-1	EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-2	EXHAUST FAN	120	1	1/4 5.8						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-3	EXHAUST FAN EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-5	EXHAUST FAN	120 120	1	1/4 5.8						YES YES			DIV 26 DIV 26		2 #	12	1 # 12	3/4"	20	+
EF-6	EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-7	EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-8	EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-9	EXHAUST FAN	120	1	1/4 5.8						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-10	EXHAUST FAN	120	1	1/6 4.4						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EF-11	EXHAUST FAN	120	1	1/4 5.8						YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EH-1	RECESSED WALL ELECT HEATER	120	1			15.0				YES			DIV 26		2 #	12	1 # 12	3/4"	20	
EH-2	RECESSED WALL ELECT HEATER	120	1			15.0				YES			DIV 26		2 #	12	1 # 12	3/4"	20	+
EH-3	RECESSED WALL ELECT HEATER RECESSED WALL ELECT HEATER	120	1			15.0 15.0				YES YES			DIV 26		2 #	3	1#8	1"	20	1.
CC-1	INDOOR CASSETTE CEILING	208	1			15.0	0.2			YES			DIV 26		2 #	12	1#12	3/4"	20	1.
CC-2	INDOOR CASSETTE CEILING	208	1				1.7			YES			DIV 26		2 #	12	1#12	3/4"	20	
WC-1	INDOOR CASSETTE WALL	208	1				0.3			YES			DIV 26		2 #	12	1 # 12	3/4"	20	1
WC-2	INDOOR CASSETTE WALL	208	1				0.3			YES			DIV 26		2 #	12	1 # 12	3/4"	20	
WC-3	INDOOR CASSETTE WALL	208	1				0.3			YES			DIV 26		2 #	12	1 # 12	3/4"	20	
WC-4	INDOOR CASSETTE WALL	208	1				0.5			YES			DIV 26		2 #	12	1 # 12	3/4"	20	
WC-5	INDOOR CASSETTE WALL	208	1				0.5			YES			DIV 26		2 #	12	1 # 12	3/4"	20	
BC-1	INDOOR BRANCH CONTROLLER	208	1			0.2				YES			DIV 26		2 #	12	1 # 12	3/4"	20	
BC-2	INDOOR BRANCH CONTROLLER	208	1			0.1				YES			DIV 26		2 #	12	1#12	3/4"	20	+
BC-3	INDOOR BRANCH CONTROLLER INDOOR BRANCH CONTROLLER	208	1			0.1				YES YES			DIV 26 DIV 26		2 #	12 12	1 # 12 1 # 12	3/4"	20	+
BC-4 BC-5	INDOOR BRANCH CONTROLLER INDOOR BRANCH CONTROLLER	208	1			0.2				YES			DIV 26		2 #	12	1 # 12	3/4"	20	+
HP-1	OUTDOOR HEAT PUMP	208	1			J.E.	30.0			1.20	60	40	w/ Unit		2 #	8	1#10	3/4"	40	+
HP-2	OUTDOOR HEAT PUMP	208	1				23.5				30	30	w/ Unit		2 #	10	1#10	3/4"	30	†
HP-3	OUTDOOR HEAT PUMP	208	1				20.1				30	30	w/ Unit		2 #	10	1 # 10	3/4"	30	1_
HP-4	OUTDOOR HEAT PUMP	208	1				30.0				60	40	w/ Unit		2 #	6	1#8	3/4"	40	1.
HP-5	OUTDOOR HEAT PUMP	208	1				30.0				60	40	w/ Unit		2 #	6	1#8	3/4"	40	1.
AC-1	AC UNIT OUTDOOR	208	1				13.0				30	20	w/ Unit		2 #	12	1 # 12	3/4"	20	
AC-1	AC UNIT INDOOR	208	1				1.0				30	3	w/ Unit		2 #	12	1 # 12	3/4"	20	
AC-2	AC UNIT OUTDOOR	208	1				13.0				30	20	w/ Unit		2 #	12	1 # 12	3/4"	20	+
AC-2	AC UNIT INDOOR	208	1 1				1.0			VEC	30	3	w/ Unit		2 #	12	1#12	3/4"	20	+
WH-1	WATER HEATER CIRCULATION PUMP	120	1	1/6 4.4						YES YES			DIV 26		2 #	12	1 # 12 1 # 12	3/4"	20	+
J1 -1	SHOOD THOSE OWN	120	 	4.4						1			DIV ZU		3 #	12	1 # 12	3/4"	20	+
NOTES	I	I	<u> </u>	<u> </u>	<u> </u>		l	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u>I</u>	1		<u> </u>	1	1	<u> </u>	
NOTES																				

TYPE	1	DESCRIPTION	LUMINAIRE SCHEDULE LAMP(S)/BALLAST(S)	INPUT (VA)	VOLTAGE	MANUFACTURER	CATALOG #
ITPE	DESCRIPTION:	2' X 4' RECESSED FLAT PANEL	LED	INFOT (VA)	VOLTAGE	COOPER	24FP4740C
	SIZE:	23-3/4" X 47-3/4" X 2"	4556 LUMENS	-		LITHONIA	CPX 2X4 AL08 SWW7 M2
	HOUSING:	ALUMINUM BEZEL, STEEL BACK PLATE	4000 KELVIN	-		ILP	PAN24-36WLED-U-40
A1	FINISH:	WHITE POWDER COAT BEZEL	80 CRI	41.5	UNV		TANKET COVICED O TO
,	LENS:	WHITE FROST ACRYLIC	00011		3117		
	ACCESSORIES:			- 			
	MOUNTING:	RECESSED		1			
	DESCRIPTION:	2' X 4' RECESSED FLAT PANEL	LED			COOPER	24FP4740C-EL14W
SIZE:	SIZE:	23-3/4" X 47-3/4" X 2"	4556 LUMENS	1		LITHONIA	CPX 2X4 AL08 SWW7 IE10WCP
	HOUSING:	ALUMINUM BEZEL, STEEL BACK PLATE	4000 KELVIN	 		ILP	PAN24-36WLED-U-40-EM12
A1E	FINISH:	WHITE POWDER COAT BEZEL	80 CRI	41.5	UNV		
	LENS:	WHITE FROST ACRYLIC		7			
	ACCESSORIES:	14 WATT EM PACK		-			
	MOUNTING:	RECESSED		7			
	DESCRIPTION:	RECESSED CAN LIGHT	LED			COOPER	HC6 20 HM6 0525 840 61 MD W
	SIZE:	26.4" X 8.6" X 6.7"	2000 LUMENS	7		LITHONIA	LDN6 40/20 LO6WR MVOLT GZ10
	HOUSING:	GALVANIZED STEEL PLASTER FRAME	4000 KELVIN	7		RAYON	RBC6-LL20-CT40-UNV-H-W-FN-C
C1	FINISH:	WHITE FLANGE	80 CRI	20.9	UNV		
	DISTRIBUTION:	MEDIUM 60 DEGREE BEAM ANGLE					
	ACCESSORIES:			7			
	MOUNTING:	RECESSED		7			
	DESCRIPTION:	RECESSED CAN LIGHT	LED			COOPER	HC6 20 REM14 HM6 0525 840 61 MD W
	SIZE:	26.4" X 8.6" X 6.7"	2000 LUMENS			LITHONIA	LDN6 40/20 LO6WR MVOLT GZ10 EL
	HOUSING:	GALVANIZED STEEL PLASTER FRAME	4000 KELVIN]		RAYON	RBC6-LL20-CT40-UNV-H-W-FN-C/EL17
C1E	FINISH:	WHITE FLANGE	80 CRI	20.9	UNV		
	DISTRIBUTION:	MEDIUM 60 DEGREE BEAM ANGLE]			
	ACCESSORIES:	14 WATT EM PACK		_]			
	MOUNTING:	RECESSED					
ES:							
1	ALL LIGHT FIXTURES	S SHALL HAVE A MINIMUM 5 YEAR WARRANTY.					
2	ALL LED LIGHT FIXT	URES SHALL HAVE REPLACEABLE AND UPGRADABLE LED MODULES, LM79 AN	ND LM80 LISTED, WITH 50,000 HR MIN. L70 RATING.				



PERMIT SET

DATE: 10.26.22

PROJECT NUMBER: 2150

SCALE: 1' = 1'-0"





GENERAL DEMOLITION NOTES:

- A. The Contractor shall field verify all dimensions and existing conditions including existing utilities prior to bidding as the locations shown in the construction documents are approximate. All variances not shown in the construction documents shall be brought to the attention of the Architect prior to bid.
- B. Prior to beginning demolition work the Contractor shall coordinate with the Owner on items that shall be demolished, remain or
- C. All bearing walls and columns to remain, unless indicated otherwise. Contractor shall field verify these conditions prior to
- D. Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods
- required to complete the work within the limitations of governing regulations and as indicated. Provide miscellaneous demolition required for new construction, whether specifically defined, or not.
- F. Protect existing construction indicated to remain during the process of demolition. All existing interior finishes, materials, structure, systems, landscaping, site features, etc. not identified to be demolished that are damaged during construction shall be restored to their original condition or replaced to match at the Contractor's expense.
- G. Except for items indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain, remove demolished materials from project site and legally recycle or dispose of them in an EPA approved landfill.
- H. Reference engineering sheets for additional demolition requirements.
- Provide temporary bracing and shoring as required for removal of existing walls.
- Reference demolition reflected ceiling plans for ceiling demolition requirements not shown on this sheet. K. Where a wall is removed, cut back plaster/gypsum board to adjoining wall and ceiling surfaces and patch as required for smooth
- All existing finished surfaces damaged due to work under this contract shall be patched & finished to match existing adjacent
- M. All noted materials are new, unless indicated otherwise.
- N. Contractor shall install flexboard over all floor material to remain to protect surfaces from construction debris and demolition
- work. 45 mil. minimum thickness. Tape all joints. Clean carpet if necessary at completion of construction. Patch and level existing concrete floor slabs as required for new finishes with floor leveling compound as approved by the
- P. Owner shall remove all existing wall mounted artwork, display boards, clocks, speakers, etc. from walls prior to construction start.

KEYED NOTES:

- 02.04 Remove existing millwork including countertops (where occurs). Protect existing adjacent plaster wall surfaces from damage.
- 02.05 Remove existing plumbing fixture, complete re: plumbing
- 02.06 Remove existing steam radiator system, complete, including piping, controls, etc. re: mechanical/plumbing. Protect existing adjacent plaster wall surfaces to remain from damage.
- 02.07 Remove existing wood door and door hardware from existing wood door frame. Protect exisiting wood door frame to
- 02.09 Remove existing window mounted evaporative cooler system, complete re: mechanical/plumbing. Protect existing
- 02.16 Remove existing abandoned steam and condensate piping, complete re: mechanical/plumbing. Protect existing adjacent plaster wall surfaces to remain from damage.
- 02.17 Remove existing foundation vent re: mechanical 02.18 Carefully cut existing wood floor for new register - re: mechanical. Coordinate location of register opening to avoid
- cutting or damage to existing floor joists. 02.19 Remove existing drinking fountain, complete - re: plumbing
- 02.20 Remove existing wood door wood door frame. Protect exisiting adjacent wall surfaces to remain.
- 02.21 Existing IT/data rack to remain protect from damage 02.22 Remove existing hollow metal door, hollow metal door frame and sidelites/transoms (where occurs). Protect exisiting
- adjacent wall surfaces to remain. 02.23 Remove existing flooring system in this room, complete. Protect exisiting wall base to remain.
- O2.24 Carefully remove existing cast window sill. Protect exisiting wall finishes to remain.
- O2.25 Carefully remove existing tectum wall panel system, complete, from all walls in this room. Protect exisiting wall finishes
- O2.26 Remove existing tile flooring system in this room, complete, including wall base O2.27 Remove existing obscure glazing from existing window sashes at this window. Protect existing window system to
- 02.28 Remove existing wall-mounted shelving system, complete. Protect existing adjacent plaster wall surfaces from damage. _02.29\ Remoye existing wall sconce light fixtures, complete - re: electrical
- 02.32 Remove existing wood access door complete, including frame, casings, etc.

 05.02 Remove existing chain link fencing/guardrail system, complete. Install new 42" high vinyl coated chain link guardrail system. Install vertical posts at same location of previous guardrail system and grout in place.

DEMOLITION LEGEND:

Building element to be demolished.

Existing building element to remain (protect from damage).

STUDIO 333 ARCHITECTS

333 24TH STREET OGDEN, UT 84401 801.394.3033



OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD, OGDEN, UT

PERMIT SET 01 11.09.22 ADDENDUM 01 DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE: 1/4" = 1'-0"





GENERAL PARTITION NOTES:

FRAMED WALL PARTITIONS

- 1. Partition type indications are independent of applied finishes. See the finish sheets and interior elevations for wall finishes including tile coursing and layout and/or the designations on the plans for additional information regarding applied finishes. Where partition type designation on floor plans is interrupted by door opening, glazed partitions, etc., construction above
- interruption (and where applicable below) is to be the same as that designated for the partition in which the interruption 3. The minimum requirements for construction of each partition type as expressed by the indicated reference are incorporated
- by reference and are applicable to the work of this project. However, additional and/or more restrictive requirements may be indicated by the specifications and drawings. Such requirements also apply and shall govern such requirements including but are not limited to:
- Use 5/8" thick gypsum board throughout, unless noted otherwise.
- Use 16" o.c. max. stud spacing, unless noted otherwise in these documents. The spacing stated by the referenced approval or test report is the max. spacing if allowed in these documents.
- Use studs of gauge indicated on the drawings or in the specifications. The gauge stated by the referenced approval or test report is the minimum gauge tested. 20 ga (30 mils) is the minimum allowed in these documents. Use studs of depth indicated by this set of documents. The depth stated by the referenced approval or test report is the minimum depth allowed in these documents. See structural documents for additional information pertaining to the
- construction of concrete, masonry and stud walls. Provide fire rated construction assemblies where indicated on sheets G2's and floor plan drawings. All dimensions are center of stud or face of concrete, masonry, or rough opening unless noted otherwise. Face of finished wall
- At all interior walls, the studs, insulation, and gypsum board are to extend to the roof deck above, unless noted otherwise. Wall types not noted are assumed to match adjacent rooms. See sheets for finishes. Notify architect of any discrepancies.
- All metal stud partitions are considered acoustic partitions and are to receive a type 1 sound attenuation blanket. Thickness shall match stud depth unless noted otherwise.
- Provide control joints in metal framed walls at approximately 30 feet on center. Locate at corner above doors or inside corner of pilasters or other inconspicuous locations where possible. Consult with architect prior to commencing framing.
- At wall openings for penetration of pipes, ducts, devices, etc. gypsum board is to be cut to match the shape and dimension of the penetrating object and the gap between the object and the wall is to be sealed with acoustical or fire sealant on all sides with a ¾" joint at all sides maximum. The opening for ducts or large penetrations shall be framed with a header. Add an angled corner brace if the gap exceeds 3" from framing to the opening.
- Contractor to provide blocking/backing for all wall mounted equipment. See floor plans and interior elevations for cabinets, grab bars, etc. Install blocking as detailed or as required to mount such devices. All wood blocking is to be fire retardant treated. Install as per details.
- Where there is limited water exposure: install one layer of 5/8" type X water resistant gypsum board per ASTM C1396 (where gypsum board occurs) of basic partition at the following locations: Within 2 feet horizontally and 4 feet vertically of janitors sinks.
- At other locations, i.e. toilet rooms and kitchens, and as indicated on the architectural finish plans and elevations. Install one layer of 5/8" glass mat tile backer board in lieu of gypsum board (where gypsum board occurs) of basic partition where there is no fire rating and over gypsum board face layer at fire rated partitions at the following locations.
- At wet locations such as shower stalls and tub surrounds to a height of not less than 72" above the drain inlet. Where ceramic tile finishes are indicated per the finish plans and/or interior elevations. At other locations as indicated by the architectural finish plans and elevations.
- Provide fireblocking in concealed spaces of stud walls and partitions as follows: 1) vertically at the ceiling and floor levels and 2) horizontally at intervals not exceeding 10 feet.

KEYED NOTES:

- 02.21 Existing IT/data rack to remain protect from damage
- O6.05 Patch, repair and fill existing wood sheathing as required at location of removed steam radiator system 06.07 Millwork - re: millwork drawings
- 07.04 Infill existing foundation wall vent opening with 2" polyisocyanurate insulation baord. Cap opening with galvanized
- sheet metal cap and seal airtight paint sheet metal to match existing brick veneer re: mechanical. 08.03 Install existing glass pane (Furnished by Owner) in existing window sash at location of removed window mounted
- evaporative cooler system. Install new glazing stops and gaskets.

 O8.04 Install new wood stile and rail door leaf in existing wood door frame. Coordinate hinge locations and new door
- hardware with existing frame. Paint door leaf, door frame and transom panel.
- 08.05 Aluminum storefront entrance door system in existing masonry opening re: door schedule and details 09.02 Skim coat all existing plaster wall surfaces in this room to provide smooth uniform wall surface - paint.
- 09.03 Patch and repair all existing wall surfaces in this room as required. Patch and repair all wall surfaces at locations of architectural, mechanical, plumbing and electrical demolition work as required - re: engineering sheets for mechanical and electrical demolition requirements. Paint as per finish schedule.
- 09.05 Install new solid surface window sill @ existing window. Patch and repair existing plaster sill and jambs as required. Re:
- 09:08 Prepare and paint existing wood storage closet system, including walls, doors, sehleving, etc.

 09:09 Infill existing access door opening removed during demolition with wood stud framing to match existing. Install lathe and plaster finish system to match existing texture/finish. Add wood running trim/chair rail across opening to match exisiting and paint. Patch, repair and paint existing wall corner to corner.

 11.01 Refrigerator (N.I.C.)
- 11.02 Microwave (N.I.C.)
- 22.01 Sink and faucet re: plumbing
- 26.02 Electric water cooler re: electrical and plumbing

STUDIO 333 ARCHITECTS 333 24TH STREET OGDEN, UT 84401 801.394.3033



OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD, OGDEN, UT

NO. DATE DESCRIPTION 01 11.09.22 ADDENDUM 01

PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150 SCALE: 1/4" = 1'-0"





REMOVE EXISTING STEAM AND CONDENSATE BRANCH PIPING TO

REMOVE EXISTING CONDENSATE MAIN COMPLETE. REMOVE ALL

REMOVE FLEXIBLE S.A. DUCT FROM JOIST SPACE COMPLETE.

REMOVE EXISTING WATER COOLED AC UNIT COMPLETE. REMOVE AND SALVAGE REFRIGERANT. REMOVE ALL ASSOCIATED

7 REMOVE ALL ASSOCIATED WATER AND DRAINS LINES TO AC UNIT.

8 REMOVE EXISTING S.A. DUCT MAIN. REMOVE ALL DUCT

9 REMOVE EXISTING S.A. REGISTER. SEE DWG M100 FOR NEW

REMOVE EXISTING R.A. BOOT. SEE DWG M100 FOR NEW WORK

EXISTING ABANDONED STEAM MAIN AND CONDENSATE MAIN. NO WORK REQUIRED.

EXISTING STEAM AND CONDENSATE LINES. CUT AND CAP STEAM AND CONDENSATE MAINS NEAR WALL PENETRATION. REMOVE

DISCONNECTED PIPING THAT IS NOT REUSED AS PART OF THE

ALL STEAM AND CONDENSATE PIPING DOWNSTREAM.

REMOVE ALL ABANDONED, NON-FUNCTIONAL AND

REMOVE EXISTING STEAM CONTROL VALVES COMPLETE. REMOVE ALL ACTUATORS AND CONTROL WIRING.

VALVES, CONDENSATE TRAPS AND PIPE SUPPORTS.

REMOVE EXISTING STEAM MAIN COMPLETE. REMOVE ALL ASSOCIATED PIPE SUPPORTS.

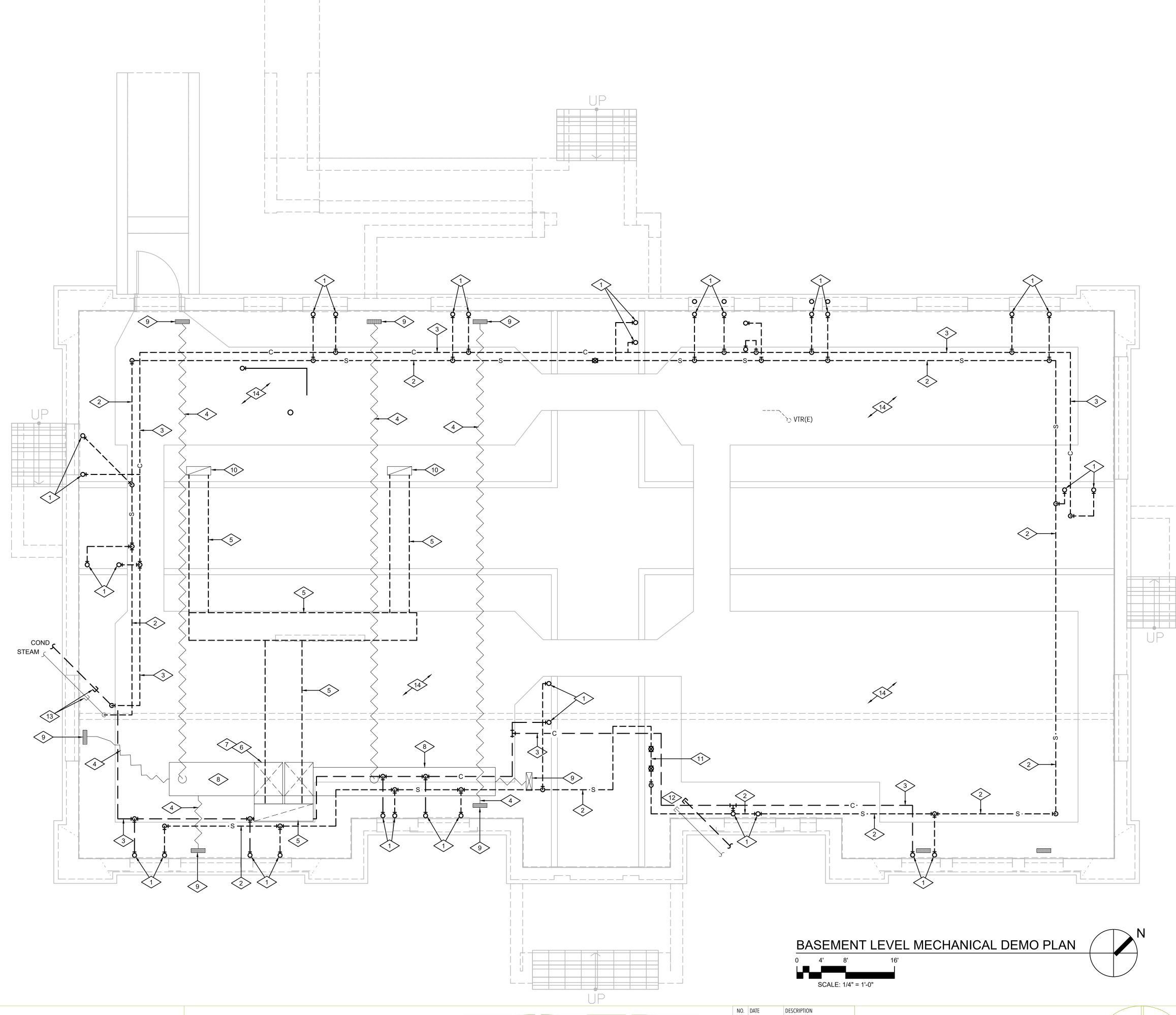
ASSOCIATED PIPE SUPPORTS.

5 REMOVE R.A. DUCT COMPLETE.

WORK REQUIRED.

DUCTWORK AND SUPPORTS.

STEAM RADIATOR COMPLETE. REMOVE ALL ASSOCIATED STEAM



STUDIO 333 ARCHITECTS 333 24TH STREET

OGDEN, UT 84401 801.394.3033



OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD , OGDEN, UT



NO. DATE DESCRIPTION

O1 11.09.22 ADDENDUM 01

PERMIT SET

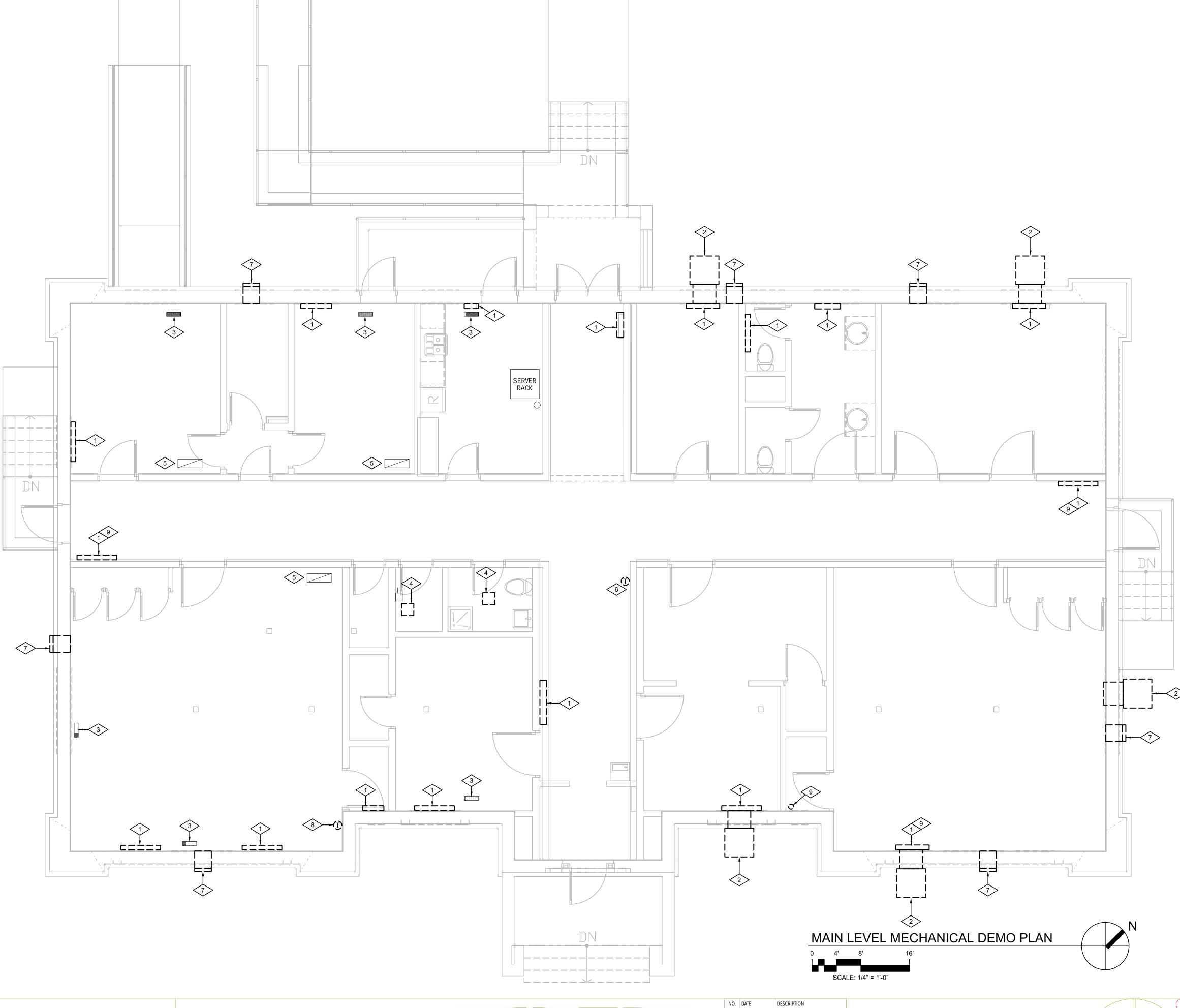
DATE: 10.26.22

PROJECT NUMBER: 2150





- REMOVE EXISTING STEAM RADIATOR COMPLETE. REMOVE ALL CONTROLS AND STEAM PIPING. PATCHING AND REPAIR OF WALL OR FLOOR BY OTHERS.
- 2 REMOVE EXISTING EVAPORATIVE COOLER COMPLETE.
- EXISTING FLOOR REGISTER TO BE REMOVED AND REPLACED. SEE DRAWING M101 FOR NEW WORK.
- REMOVE EXISTING CEILING VENT COMPLETE. REMOVE ALL ASSOCIATED DUCTWORK.
- EXISTING FLOOR RETURN AIR GRILLE TO BE REMOVED AND REPLACED. SEE DRAWING M101 FOR NEW WORK.
- REMOVE EXISTING STEAM RADIATOR THERMOSTAT. REMOVE ALL ASSOCIATED WIRING AND CONTROLS.
- 7> EXISTING FOUNDATION VENT. INFILL FOUNDATION WALL VENT OPENING WITH 2 INCH THICK WATERPROOF POLYISO INSULATION BOARD. CAP INFILLED OPENING ON INTERIOR SIDE WITH GALVANIZED SHEET METAL CAP AND SEAL AIRTIGHT. SEE DETAIL
- REMOVE EXISTING THERMOSTAT SERVING AIR CONDITIONING UNIT IN BASEMENT. REMOVE ALL ASSOCIATED CONTROLS AND
- 9 REMOVE EXISTING ABANDONED STEAM AND CONDENSATE PIPING COMPLETE. PATCHING AND REPAIR OF WALL OR FLOOR BY OTHERS (TYP).



STUDIO 333 ARCHITECTS 333 24TH STREET

OGDEN, UT 84401 801.394.3033



OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD, OGDEN, UT



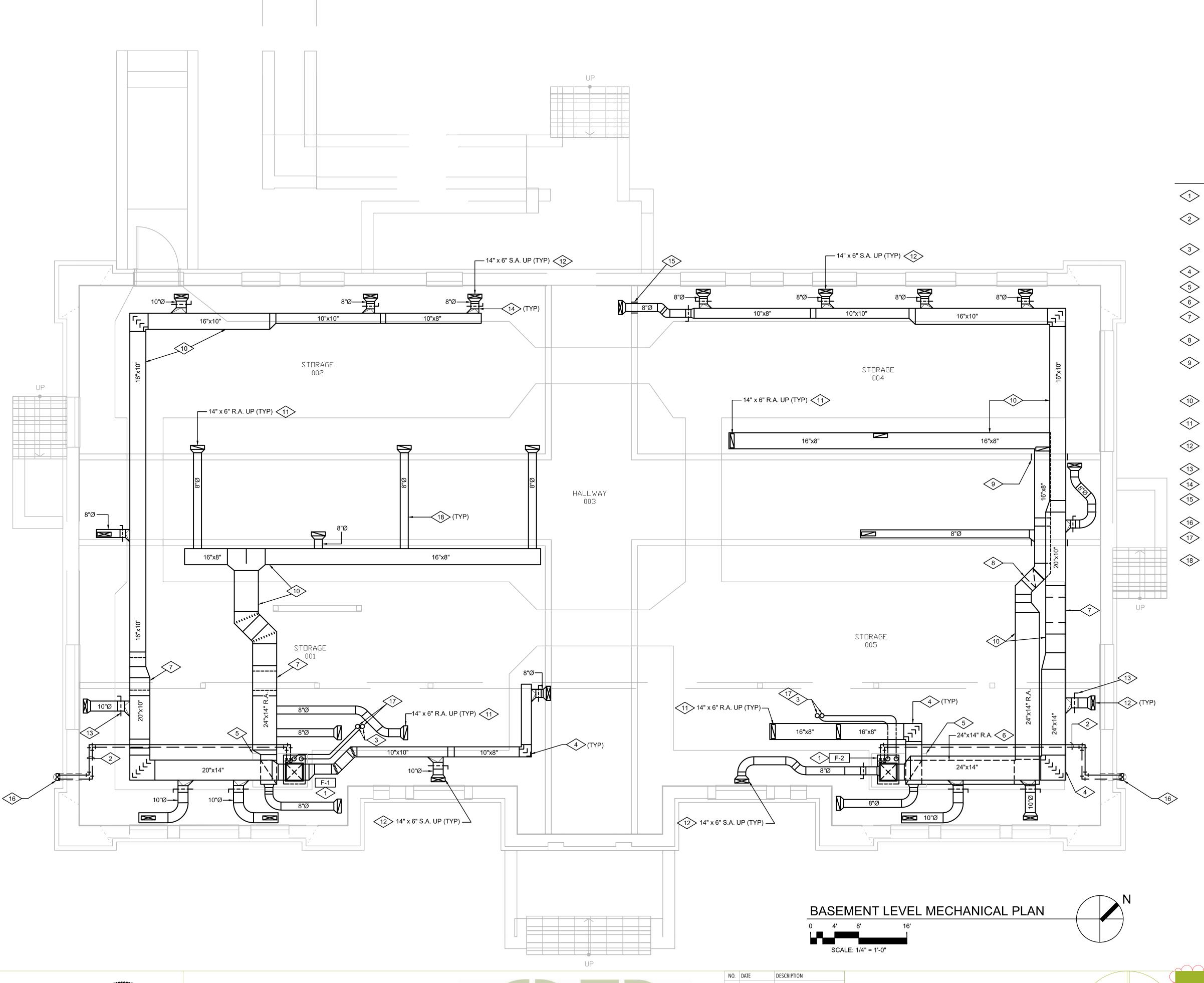
01 11.09.22 ADDENDUM 01

PERMIT SET



MD101





- INSTALL NEW FURNACE AND COOLING COIL IN THIS LOCATION. MOUNT FURNACE ON 8" HIGH PLENUM. SEE DETAIL 1/M502.
- RUN NEW REFRIGERANT SUCTION AND LIQUID LINES CLOSE TO STRUCTURE. COORDINATE ROUTING WITH DUCTWORK AND LIGHTING. SEE PIPING SUPPORT DETAILS 2/M501 AND 8/M501.
- EXTEND 3" SCH 40 PVC C.A. & FLUE PIPES FROM FURNACE TO ROOF. PROVIDE CONCENTRIC FLUE TERMINATION KIT AT ROOF. SEE DETAIL 6/M501.
- PROVIDE TURNING VANES AT EACH DUCT ELBOW (TYP)
- PROVIDE 12" HIGH LINED R.A. BASE FOR FURNACE. SEE DETAIL 8/M502.
- 6 RUN R.A. DUCT UNDER S.A. DUCT.
- WHERE REQUIRED, OFFSET DUCTWORK BELOW EXISTING BEAMS AND OTHER OBSTRUCTIONS (TYP).
- DROP DUCT DOWN AND RUN UNDER S.A. AIR DUCT THROUGH WALL OPENING. COORDINATE LOCATION OF DUCT WITH EXISTING WALL OPENING.
- 9 SUPPLY AND RETURN AIR DUCTS TO RUN THROUGH EXISTING WALL OPENINGS. COORDINATE LOCATION OF DUCTWORK PRIOR TO FABRICATION. MAKE ADJUSTMENTS TO DUCTWORK SIZE AS NEEDED TO ACCOMODATE EXISTING WALL OPENINGS.
- RUN DUCTWORK HIGH CLOSE TO STRUCTURE. COORDINATE LOCATION WITH ELECTRICAL AND PLUMBING TRADES.
- PROVIDE RETURN AIR DUCT BOOT TO FLOOR GRILLE ABOVE. SAWCUT EXISTING FLOOR AS NEEDED (TYP).
- PROVIDE SUPPLY AIR DUCT BOOT TO FLOOR REGISTER ABOVE (TYP). SAW CUT EXISTING FLOOR AS NEEDED (TYP). SEE DETAIL 1/M503.
- VOLUME DAMPER (TYP).
- 14 HIGH EFFICIENCY 45 DEG TAKE-OFF (TYP)
- CORE DRILL OR SAWCUT EXISTING WALL AS NEEDED TO FACILITATE DUCT
- FOR CONTINUATION OF REFRIGERATION PIPING SEE DRAWING M101.
- CORE DRILL EXISTING FLOOR STRUCTURE AS NEEDED FOR COMBUSTION AIR AND FLUE PIPING. FOR CONTINUATION OF FLUE PIPING SEE DRAWING M101.
- RUN DUCT HIGH BETWEEN FLOOR JOISTS.

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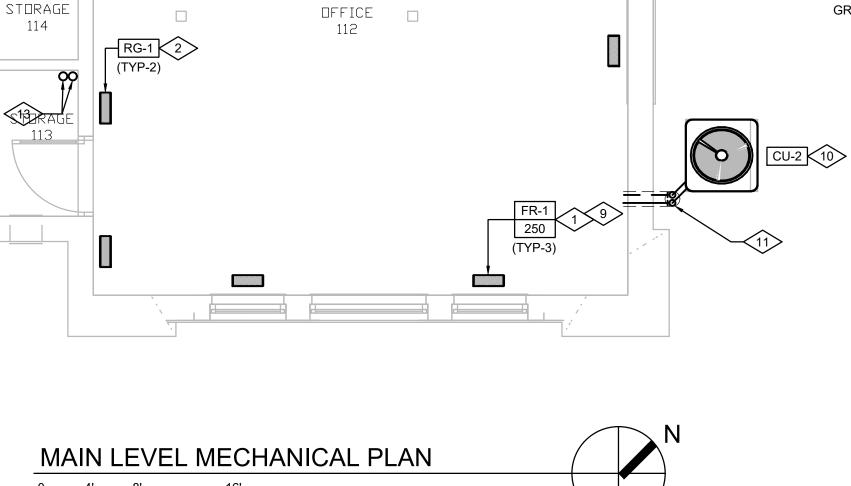
01 | 11.09.22 | ADDENDUM 01







- INSTALL NEW S.A. FLOOR REGISTER WHERE INDICATED. COORDINATE LOCATION OF REGISTER WITH FLOOR JOISTS AND FURNITURE LOCATIONS. SAWCUT EXISTING FLOOR AS NEEDED. SEE DETAIL 1/M503 (TYP).
- 2 INSTALL NEW R.A. FLOOR GRILLE WHERE INDICATED. COORDINATE LOCATION OF GRILLE WITH FLOOR JOISTS AND FURNITURE LOCATIONS. SAWCUT EXISTING FLOOR AS NEEDED (TYP).
- MASTER THERMOSTAT WITH OVERRIDE. INSTALL PROGRAMMABLE DIGITAL THERMOSTAT WITH AUTOMATIC CHANGE OVER BETWEEN HEATING AND COOLING. MOUNT THERMOSTAT 48 INCHES A.F.F. MAKE ALL REQUIRED CONNECTIONS TO AVERAGING THERMOSTATS FOR A COMPLETE AND FUNCTIONAL CONTROL SYSTEM.
- 4 AVERAGING THERMOSTAT. MOUNT THERMOSTAT 48 INCHES A.F.F. MAKE ALL REQUIRED CONNECTIONS TO MASTER THERMOSTAT TO PROVIDE FOR TEMPERATURE AVERAGING IN SPACES SERVED.
- 5 INSTALL CEILING EXHAUST FAN IN THIS LOCATION. SUPPORT FROM OVERHEAD STRUCTURE. PROVIDE INTEGRAL BACKDRAFT DAMPER. SEE DETAIL 4/M502.
- 6 EXTEND E.A. DUCT OF SIZE INDICATED THROUGH WALL OPENING INTO EXISTING DUCT CHASE.
- THROUGH EXISTING DUCT OF SIZE INDICATED UP THROUGH EXISTING DUCT CHASE TO ROOF TOP PENTHOUSE.
- 8 INSTALL ROOF TOP PENTHOUSE ON 12" HIGH ROOF CURB. SEE DETAIL 2/M502.
- 9 BALANCE NEW FLOOR REGISTERS TO CFM INDICATED (TYP)
- INSTALL CONDENSING UNIT IN THIS LOCATION. MOUNT CONDENSING UNIT ON 4 INCH HIGH CONCRETE PAD. SEE DETAIL 1/M501.
- RUN REFRIGERATION LIQUID AND SUCTION LINES FROM CONDNESING UNIT THROUGH FOUNDATION WALL TO FURNACE COOLING COIL. PROVIDE CORE DRILL THROUGH WALL AS NEEDED. GROUT PIPE/WALL PENETRATION
- ALL TEMPERATURE CONTROL WIRING INSIDE WALLS SHALL BE INSTALLED IN EXISTING WALLS. WHERE NEEDED PROVIDE WIRE MOLD TO CONCEAL CONTROL WIRING.
- EXTEND 3" SCH 40 PVC C.A. & FLUE PIPES FROM FURNACE TO ROOF. PROVIDE CONCENTRIC FLUE TERMINATION KIT AT ROOF. SEE DETAIL 6/M501.
- REMOVE EXISTING FLOOR REGISTER AND REPLACE WITH NEW REGISTER. SAWCUT FLOOR AS NEEDED TO MATCH NEW REGISTER (TYP).
- REMOVE EXISTING FLOOR GRILLE AND REPLACE WITH NEW GRILLE. SAWCUT FLOOR AS NEEDED TO MATCH NEW GRILLE (TYP).



STORAGE

OFFICE

4

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STORAGE

12 (TYP)

DEFICE

101

OFFICE

105

15 RG-1

STORAGE

121

STORAGE 122

123

2 RG-1 (TYP-2)

FR-1 250 14 9 (TYP-2)

JANITOR

120

BREAK ROOM

106

EF-3 5

FR-1 250

2 RG-1

☐ 6"x6" E.A. 6

OFFICE

12

STORAGE

102

103

15 RG-1



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DN

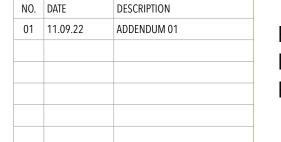
HALLWAY 107

_10"x10" E.A. UP <7>

FR-1 1 9 200 1

ENTRY

PH-1 8 (ON ROOF)



FR-1 150

RESTROOM

—10"x10"¹₽.ਐ. UP <7

6 6"x6" E.A.—

OFFICE 8 PH-1 (ON ROOF)

6 6"x6" E.A.-

2 RG-1 -

OFFICE

115

4

2 RG-1

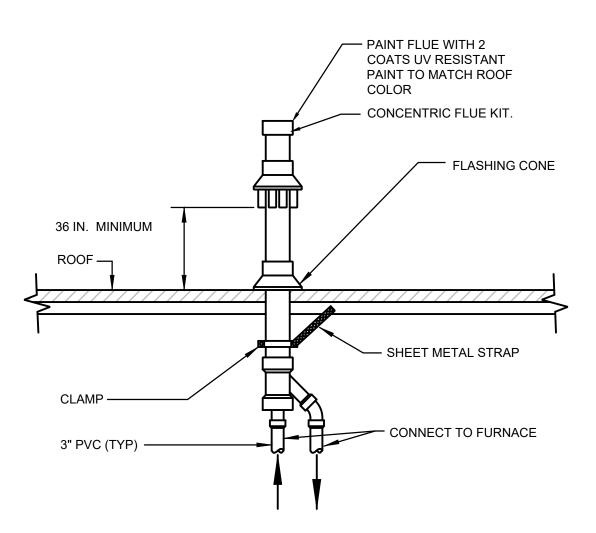
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1 FR-1 200

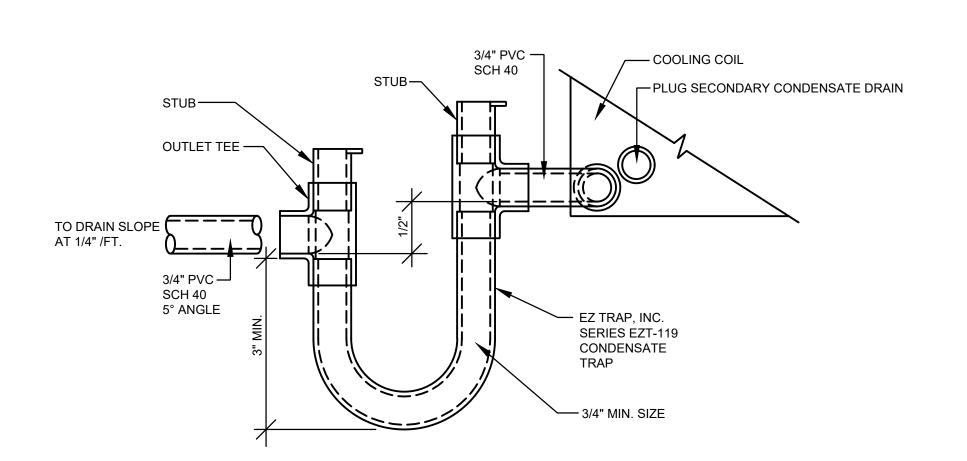
PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150

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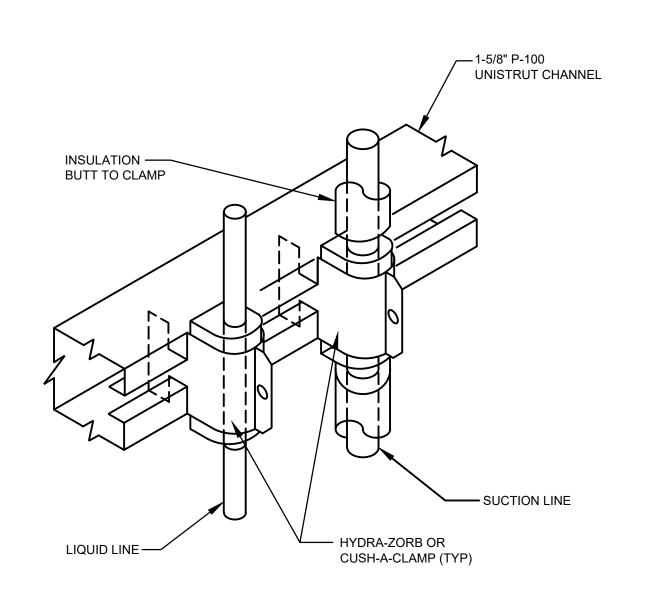




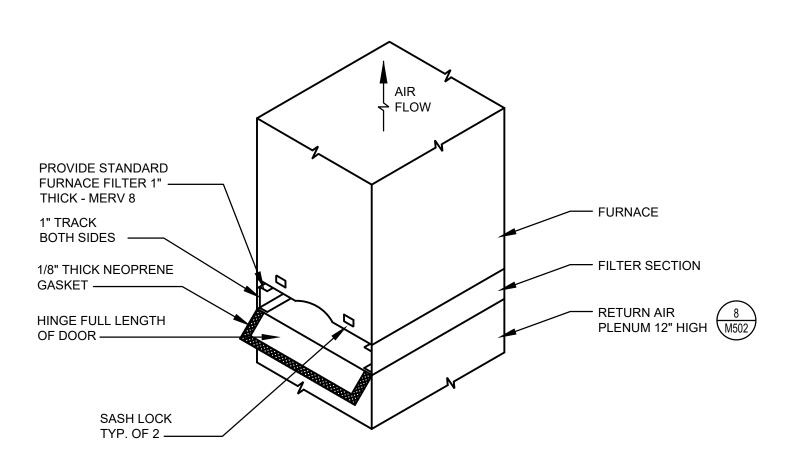




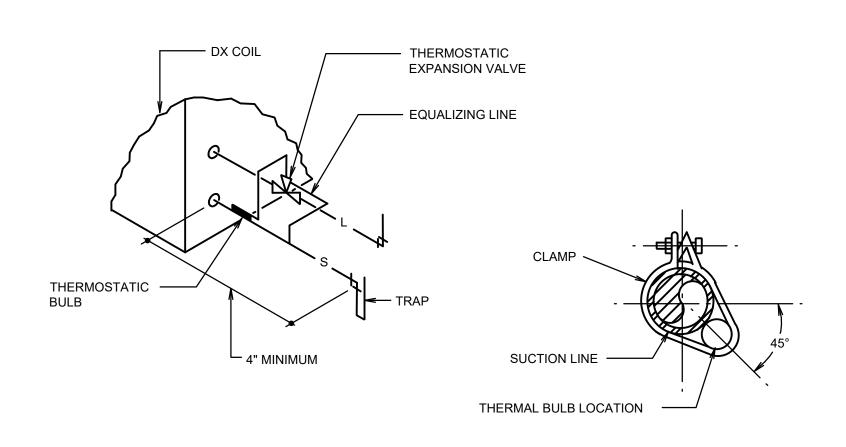




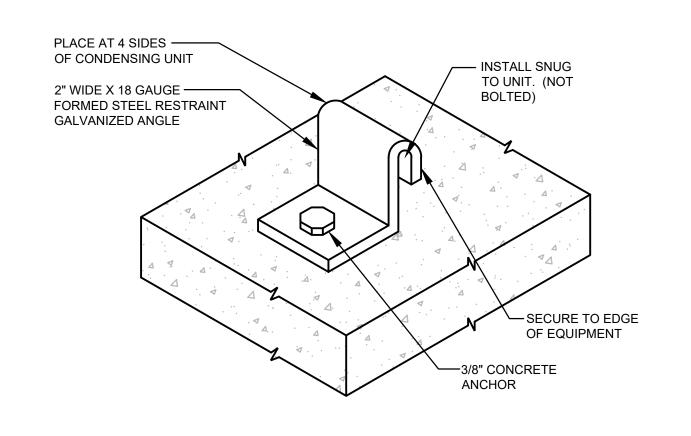
REFRIGERANT PIPE SUPPORT





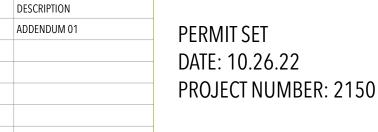




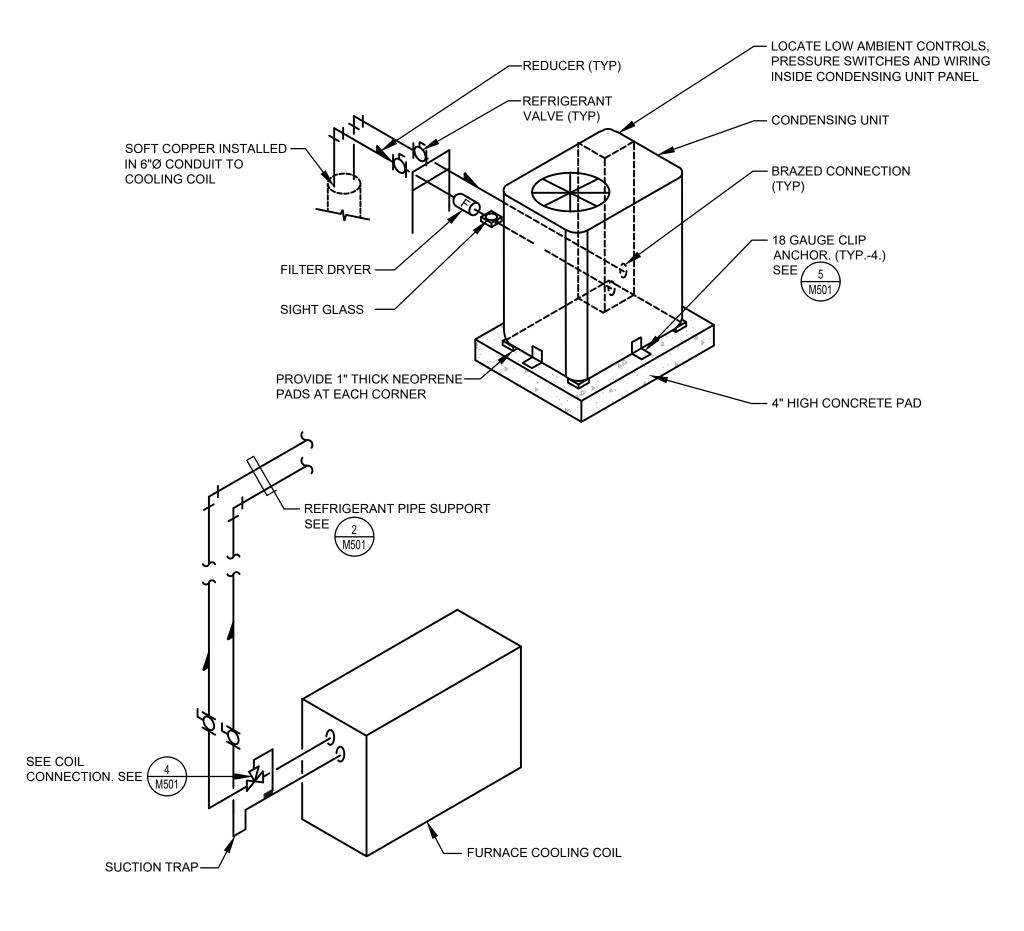




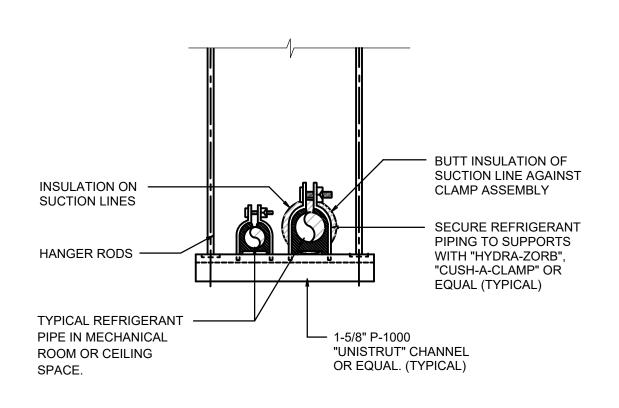


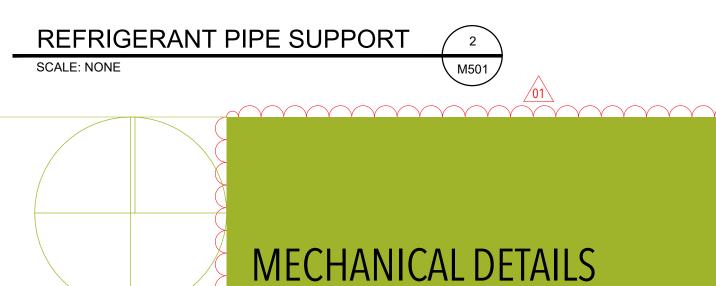










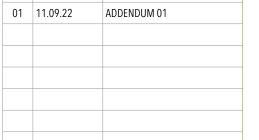




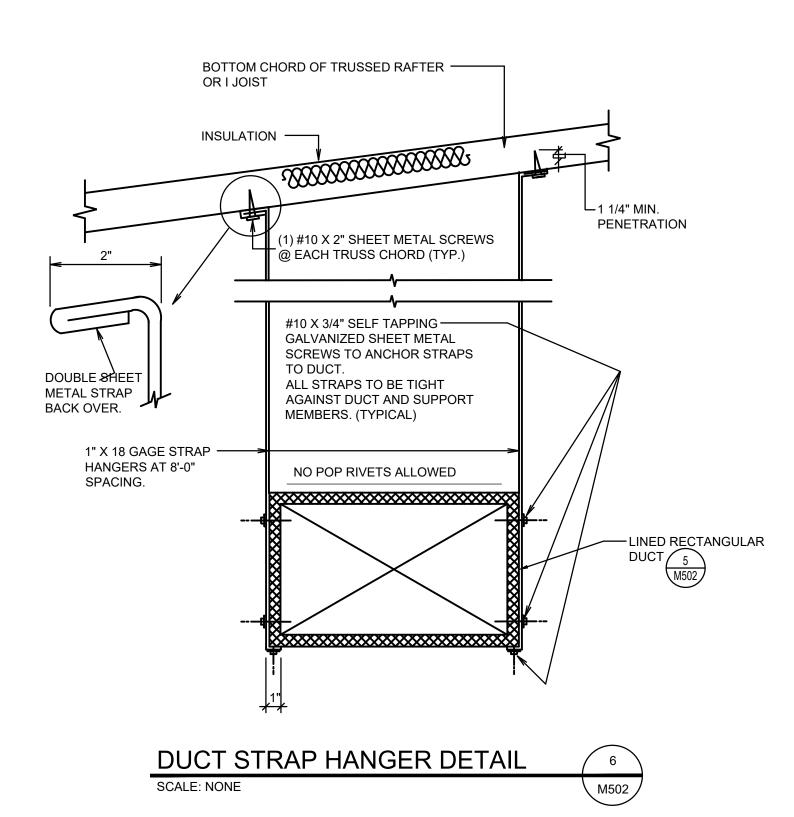
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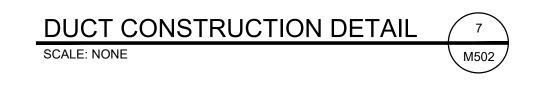
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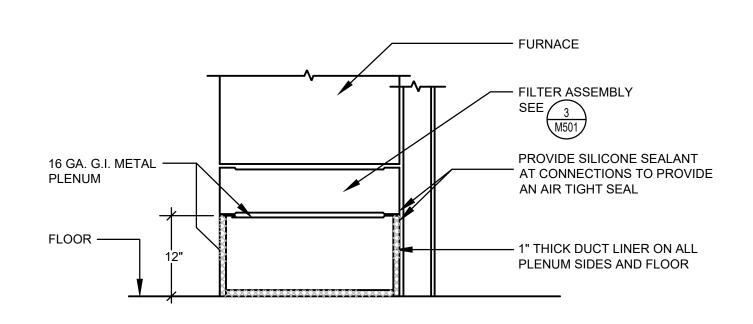


				TRANSVER	SE REINFOR	RCING (1)						
			AT JOINTS									
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	MIN. H. IN.	DRIVE SLIP PLAIN S SLIP RECOM- MENDED GAGE	HEMMED S SLIP RECOM- MENDED GAGE	ALTER'NT BAR SLIP RECOM- MENDED GAGE	REIN- FORCED BAR SLIP RECOM- MENDED GAGE					
LID TUDU 40	00	NONE DECLUBED				<u> </u>						
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24					
13 - 18	24	NONE REQUIRED	1	24	24	24	24					
19 - 30	24	1"X1"X1/8" @ 60 IN	1	-	24	24	24					
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22					

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

(2) LONGITUDINAL JOINTS TO BE PITTSBURG OR SNAP LOCK TYPE.

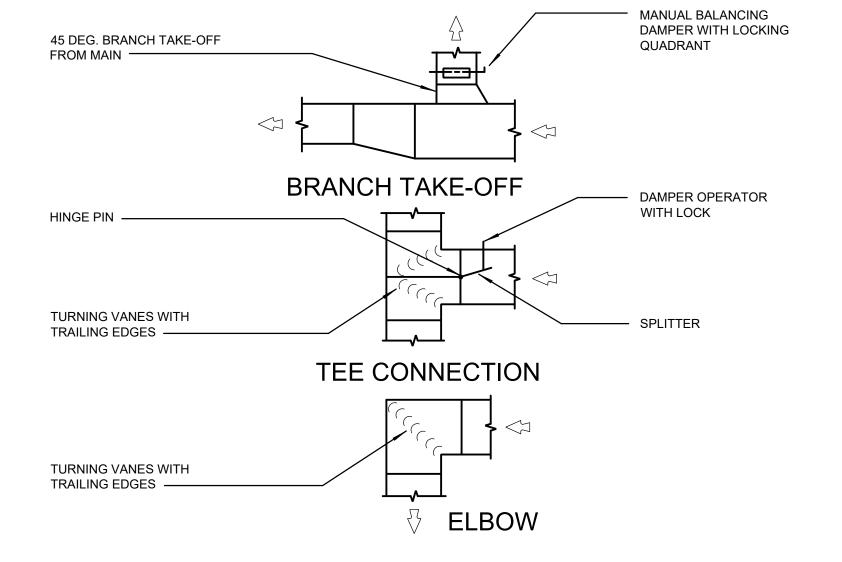




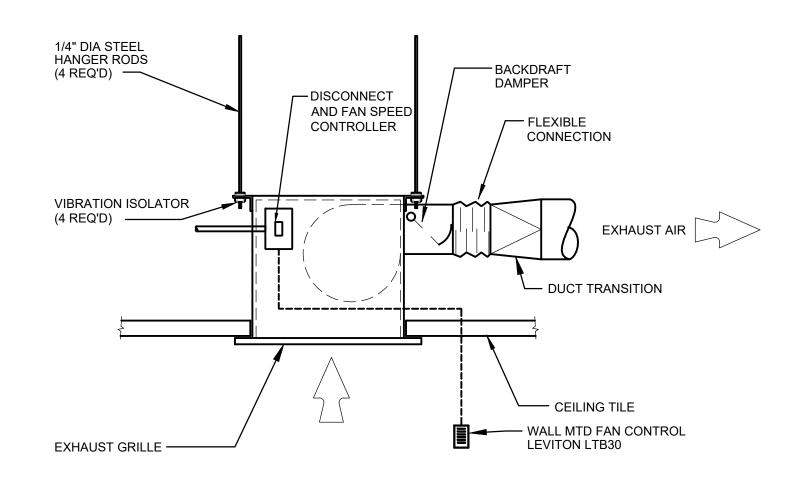




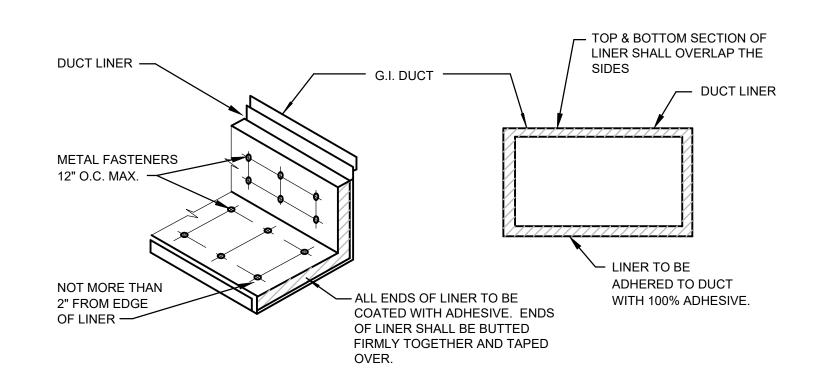
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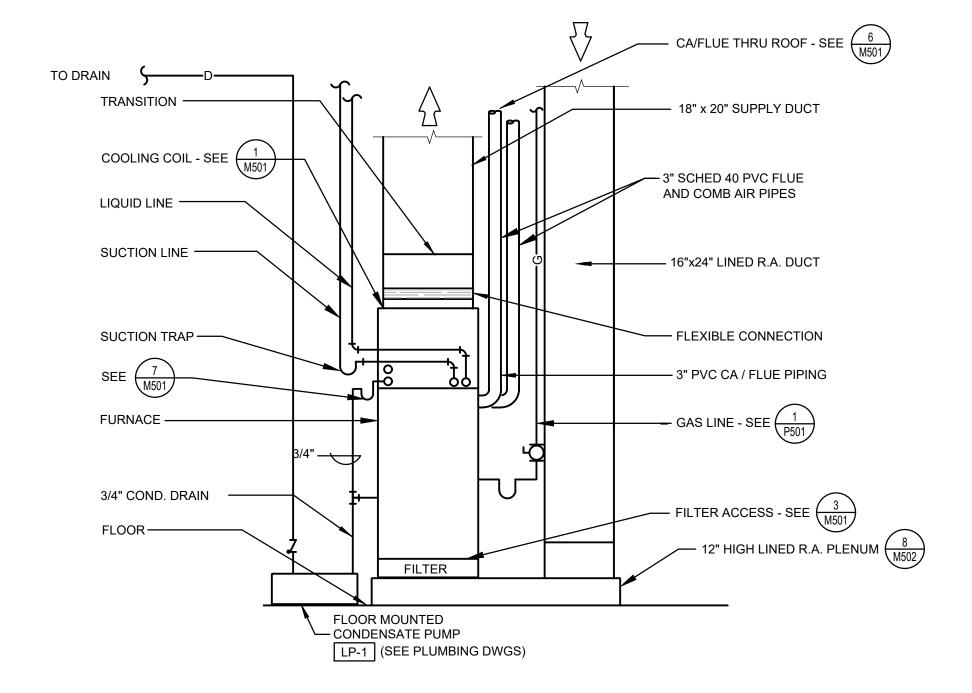




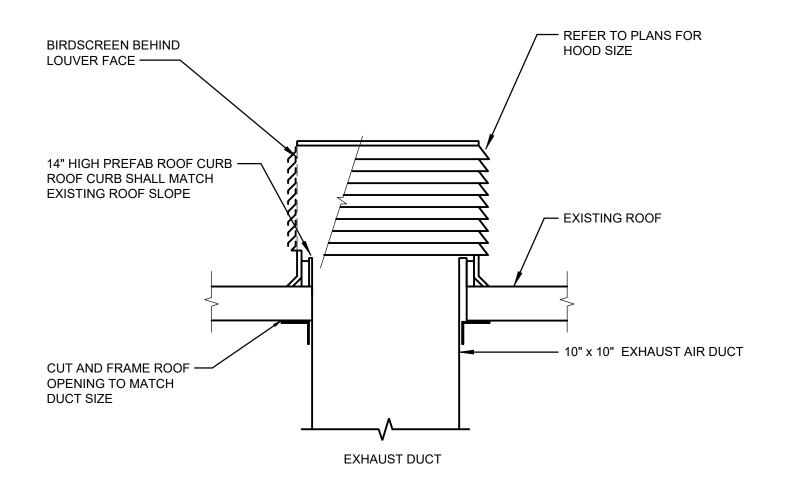


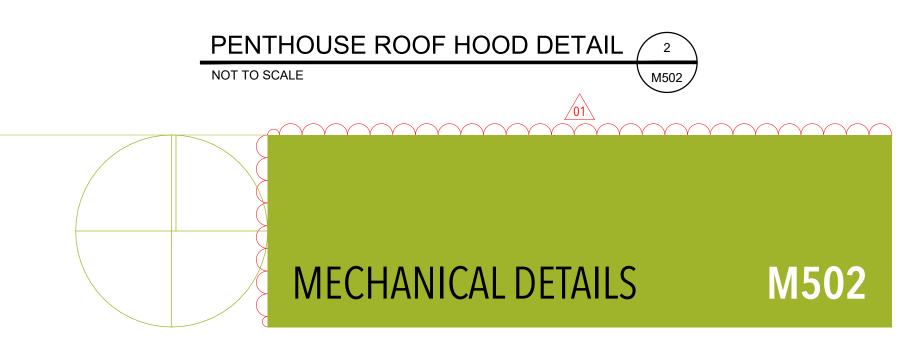
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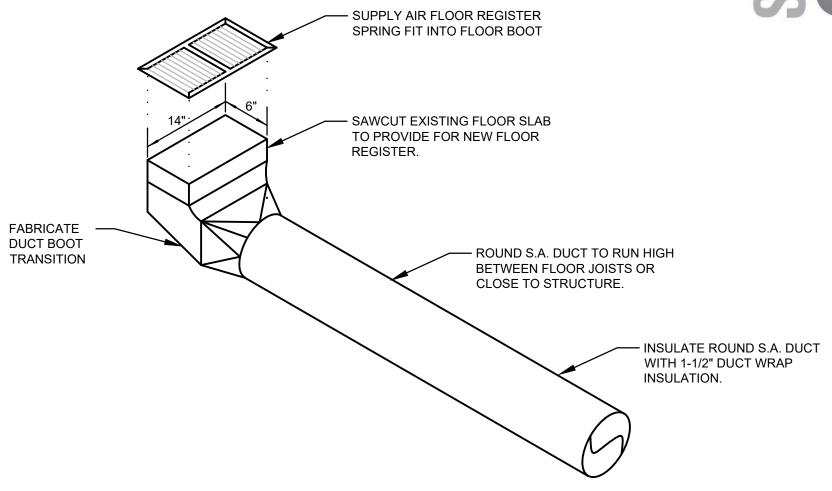
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333 24TH STREET

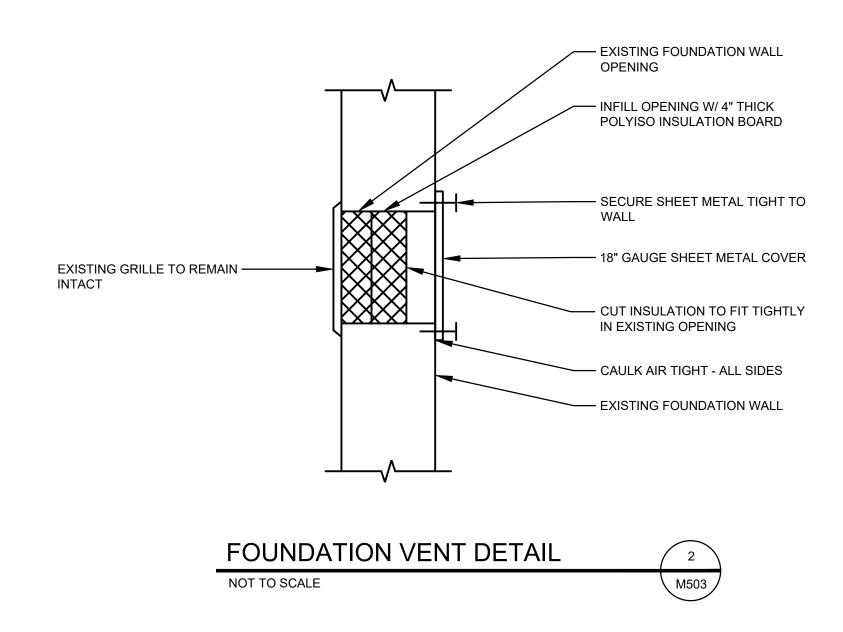
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STUDIO 333 ARCHITECTS













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NO.	DATE	DESCRIPTION	
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LEGEND	AND ABBREVIATIONS
— —RL— —	REFRIGERANT LIQUID
——RS——	REFRIGERANT SUCTION
AD	ACCESS DOOR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
O.A.	OUTSIDE AIR
E.A.	EXHAUST AIR
①	THERMOSTAT
S	SWITCH
P.O.C.	POINT OF CONNECTION
M	MOTORIZED DAMPER
\boxtimes	S.A. DUCT SECTION UP
×	S.A. DUCT SECTION DN
	FLEXIBLE DUCT CONNECTION
亞	MANUAL DAMPER
M	MOTORIZED DAMPER
£3	UNDERGROUND DUCT
	R.A., E.A. OR O.A. DUCT SECTION UP
, ,	R.A., E.A. OR O.A. DUCT SECTION DN
	SUPPLY AND RETURN AIR DUCT TAKE-OFF
	SINGLE THICKNESS TURNING VANES
	DUCT TRANDITION

PROJECT DESIGN DATA: LOCATION: OGDEN, UTAH

LATITUDE: 41.22° LONGITUDE: 111.97° ELEVATION: 4200 FT

SUMMER DESIGN DRY BULB: SUMMER DESIGN WET BULB: 65°F WINTER DESIGN DRY BULB: DEFAULT SUMMER INDOOR DRY BULB: DEFAULT WINTER INDOOR DRY BULB: 75°F 72°F

	FURNACE AND COOLING COIL SCHEDULE											
		(2) TWO STAGE			EXT.	OUTSIDE AIR	CLG. COIL CAP.		MOTOR			MANUEACTURER & MOREL (4)(0)(0)(4)(7)
SYMBOL	ARRANG.	HTG. CAP. (N INPUT OL	(MBH) UTPUT	CFM	S.P.	(CFM)	втин	COND.	H.P.	ELECT.	SPEED	MANUFACTURER & MODEL (1)(2)(3)(4)(
F-1	UPFLOW	120 11 78	13 74	2000	0.7"	0	60,000	95°F	1.0	120/1/60	HIGH	FURNACE: CARRIER 59SC5B SERIES CASED COIL: CARRIER CNPVP6024
F-2	UPFLOW	120 11 78	13 74	2000	0.7"	0	60,000	95°F	1.0	120/1/60	HIGH	FURNACE: CARRIER 595C5B SERIES CASED COIL: CARRIER CNPVP6024



- (1) FURNACES TO BE COMPLETE WITH MATCHING CASED DX COOLING COILS, TWO SPEED BLOWER AND CONCENTRIC FLUE KITS.
- (2) TWO-STAGE HIGH/LOW FIRE HEATING FURNACE. (3) PROVIDE EXTERNAL FILTER SECTION. SEE DETAIL 3/M501.
- (4) PROVIDE 12" HIGH LINED RETURN AIR PLENUM BASE FOR SIDE AND BOTTOM INLET RETURN. SEE DETAIL 8/M502.
 (5) HEATING CAPACITY: GAS INPUT RATINGS FOR SEA LEVEL. REDUCE RATING 2% FOR EVERY 1000 FT OF ALTITUDE.

	CONDENSING UNIT SCHEDULE													
		COOLING CAPACITY				ELECTRICAL							(1)(2)(3)	
SYMBOL	SERVES	MIN SEER	CAPACITY	E.A.T.	REF	COMP	NO.	FAN	NO.	VOLTS	PH	HZ	MCA	MANUFACTURER & MODEL
CU-1	F-1	21.0	60,000	105° F	R-410A	26.4	1	1.2	1	208/230	1	60	35	CARRIER 24 ACC 660
CU-2	F-2	21.0	60,000	105° F	R-410A	26.4	1	1.2	1	208/230	1	60	35	CARRIER 24 ACC 660

- (1) MOUNT CONDENSING UNIT ON 4" HIGH CONCRETE PAD WITH 1" THICK NEOPRENE VIBRATION ISOLATORS.
- (2) 15 SEER MINIMAL ACCEPTABLE. 2 STAGE SCROLL COMPRESSOR.
- (3) PROVIDE SEISMIC HOLD DOWN CLIPS- 4 PER CONDENSING UNIT.

	EXHAUST FAN SCHEDULE								
SYMBOL	SERVES	TYPE	C.F.M	S.P.	R.P.M.	MOTOR	DRIVE	MAKE & MODEL	NOTES
EF-1	RESTROOM	CEILING TYPE	100	.25	640	0.125 H.P. 120/1/60	DIRECT	BROAN L100	(1)
EF-2	RESTROOM	CEILING TYPE	100	.25	640	0.125 H.P. 120/1/60	DIRECT	BROAN L100	(1)
EF-3	CUST/RESTROOM	CEILING TYPE	125	.25	660	0.125 H.P. 120/1/60	DIRECT	BROAN L100	(1)

(1) FAN TO BE COMPLETE WITH SPRING VIBRATION ISOLATION KIT, BACK-DRAFT DAMPER, INTEGRAL WIRED FAN SPEED CONTROLLER AND WIRED TO WALL MOUNTED DIVISION 26 0000 TIMER. LEVITON LTB-30.

REFRIGERANT PIPING SCHEDULE						
SYMBOL	LIQUID LINE	SUCTION LINE				
F-1	3/8"	7/8"				
F-2	3/8"	7/8"				

REGISTER AND GRILLE SCHEDULE							
SYMBOL	TYPE	NECK SIZE (1)	LOCATION	AIR PATTERN	MAKE & MODEL		
FR-1 CFM	SUPPLY AIR	14" X 6"	FLOOR	2-WAY	HART & COOLEY 411 HEAVY GAUGE STEEL, 3-BLADE DAMPER (1)		
RG-1	RETURN AIR	14" x 6"	FLOOR	1-WAY	PRICE LBMH-75 FLANGED FRAME (1)		

(1) ALL REGISTERS AND GRILLES TO BE POWDER COATED BRIGHT WHITE FINISH.

PENTHOUSE SCHEDULE							
SYMBOL	TYPE	THROAT SIZE	HEIGHT	CFM	(1)(2)(3) MAKE & MODEL		
PH-1	EXHAUST AIR	12" x 12"	12"	125	GREENHECK WRH-12 x12-3		

- (1) FURNISH COMPLETE WITH 14" HIGH ROOF CURB.
- (2) UNIT TO BE COMPETE WITH BIRDSCREEN
- (3) PENTHOUSE SHALL BE ALUMINUM CONSTRUCTION WITH STANDARD FINISH.

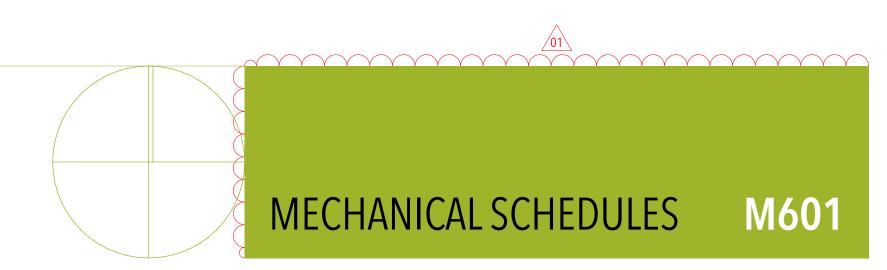
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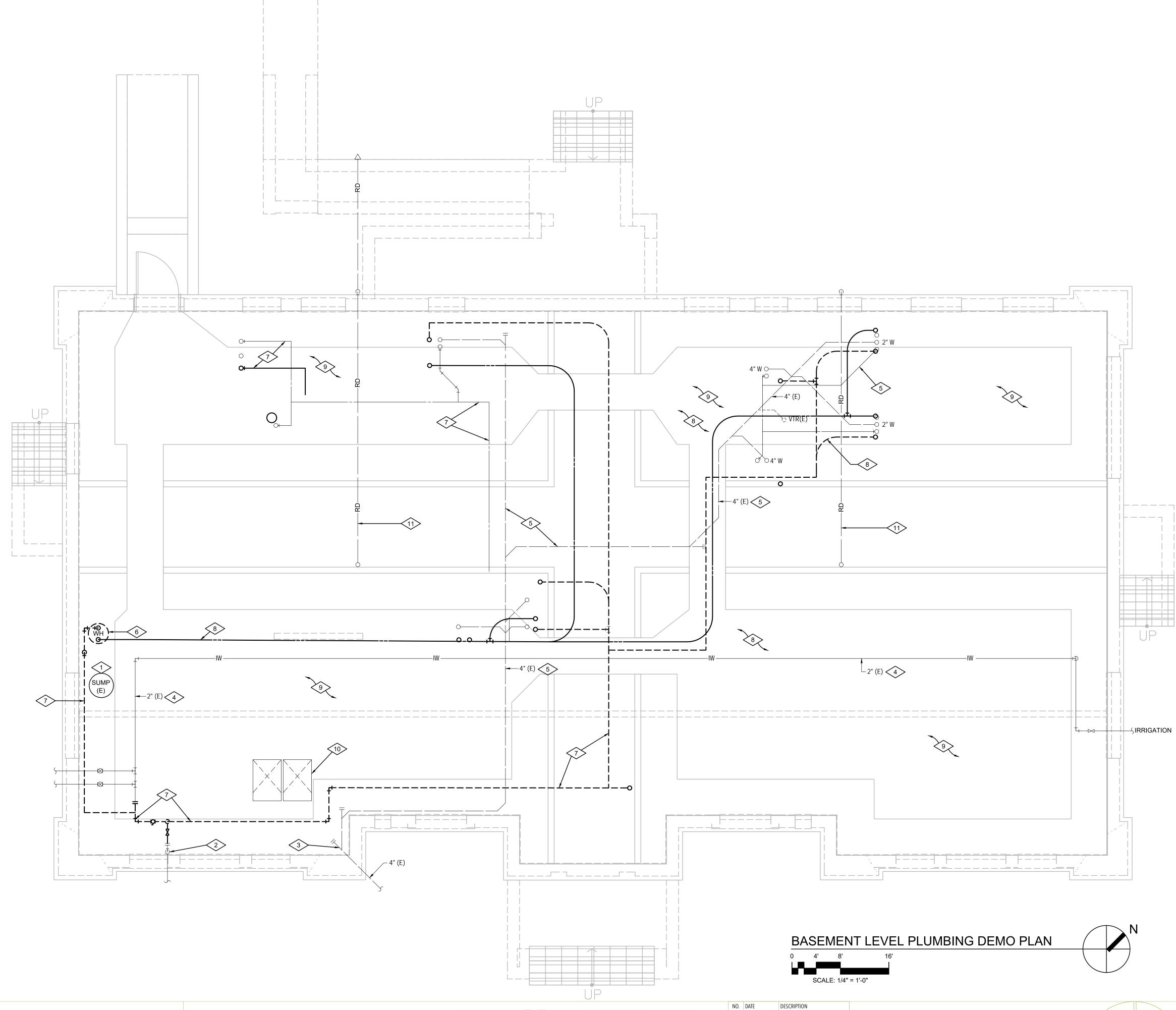
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- EXISTING DRY SUMP TO REMAIN INTACT.
- EXISTING 2" WATER SERVICE. VERIFY LOCATION PRIOR TO START OF NEW WORK. WATER SERVICE ENTRY TO BE PROVIDED WITH NEW ISOLATION VALVES. SEE DRAWING P100 FOR NEW WORK.
- 3 EXISTING 4" WASTE LINE SERVING BUILDING TO REMAIN INTACT.
- EXISTING 2" IRRIGATION WATER LINE TO REMAIN. REMOVE AND RELOCATE WATER LINE AS NEEDED TO FACILITATE INSTALLATION OF NEW DUCTWORK. SEE DRAWING M100 FOR COORDINATION.
- 5 EXISTING ABS DRAIN PIPING SERVING EXISTING PLUMBING FIXTURES TO REMAIN INTACT. REMOVE PLUMBING TAPE AND WIRE SUPPORTS AND PROVIDE NEW PIPE HANGER SUPPORTS.
- 6 REMOVE EXISTING WATER HEATER COMPLETE. REMOVE ALL ASSOCIATED WATER PIPING AND SUPPORTS. SEE DRAWING P100 FOR NEW WATER HEATER LOCATION.
- REMOVE ALL EXISTING GALVANIZED WATER PIPING COMPLETE. LOCATE EXISTING PLUMBING FIXTURES AND REMOVE ALL GALVANIZED WATER SUPPLY OR DRAIN PIPING SERVING FIXTURES. SEE DRAWING P100 FOR NEW PIPING REQUIRED.
- WHERE EXISTING PEX TUBING HAS BEEN INSTALLED TO EXISTING PLUMBING FIXTURES. DISCONNECT AND REMOVE TUBING TO FACILITATE INSTALLATION OF NEW DUCTWORK. INSTALL NEW COLOR CODED PEX TUBING UPON COMPLETION OF MECHANICAL WORK. SEE DRAWING P100.
- 9 REMOVE ALL ABANDONED WATER, DRAIN, WASTE AND VENT PIPING THAT IS NOT RE-USED AS PART OF THE NEW WORK. PREPARE AREA IN GENERAL FOR NEW PLUMBING WORK.
- REMOVE ALL WATER SUPPLY AND DRAIN PIPING SERVING AC UNIT COMPLETE.
- EXISTING ROOF DRAIN LINES TO REMAIN INTACT.

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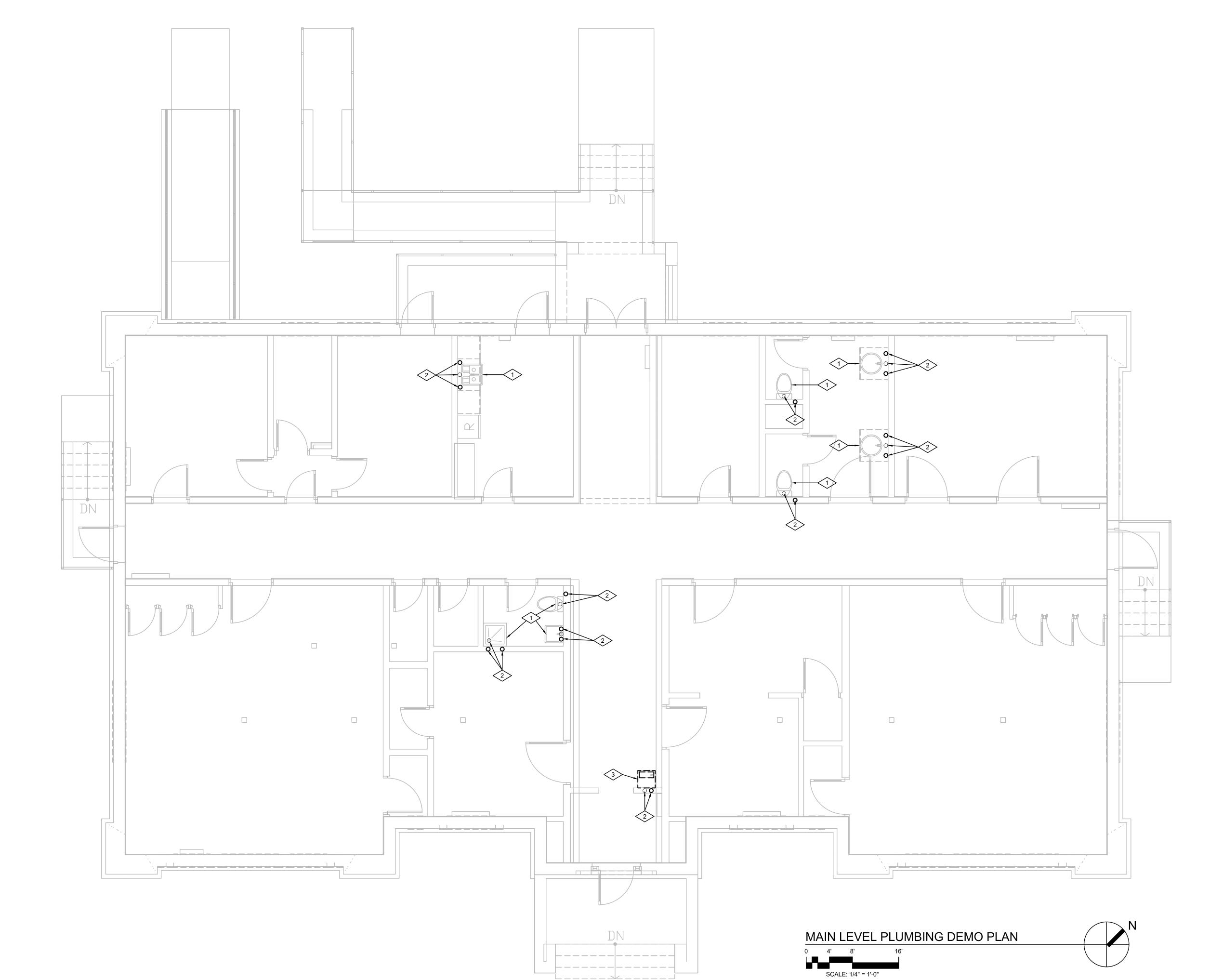


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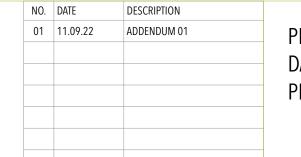
- 1 EXISTING PLUMBING FIXTURE TO REMAIN INTACT.
- REMOVE ANY ACCESSIBLE GALVANIZED WATER SUPPLY, WASTE OR VENT PIPING SERVING FIXTURE AND REPLACE WITH NEW COPPER OR ABS DWV PIPING.
- EXISTING DRINKING FOUNTAIN TO BE REMOVED AND REPLACED WITH NEW. SEE DRAWING P101 FOR NEW WORK.

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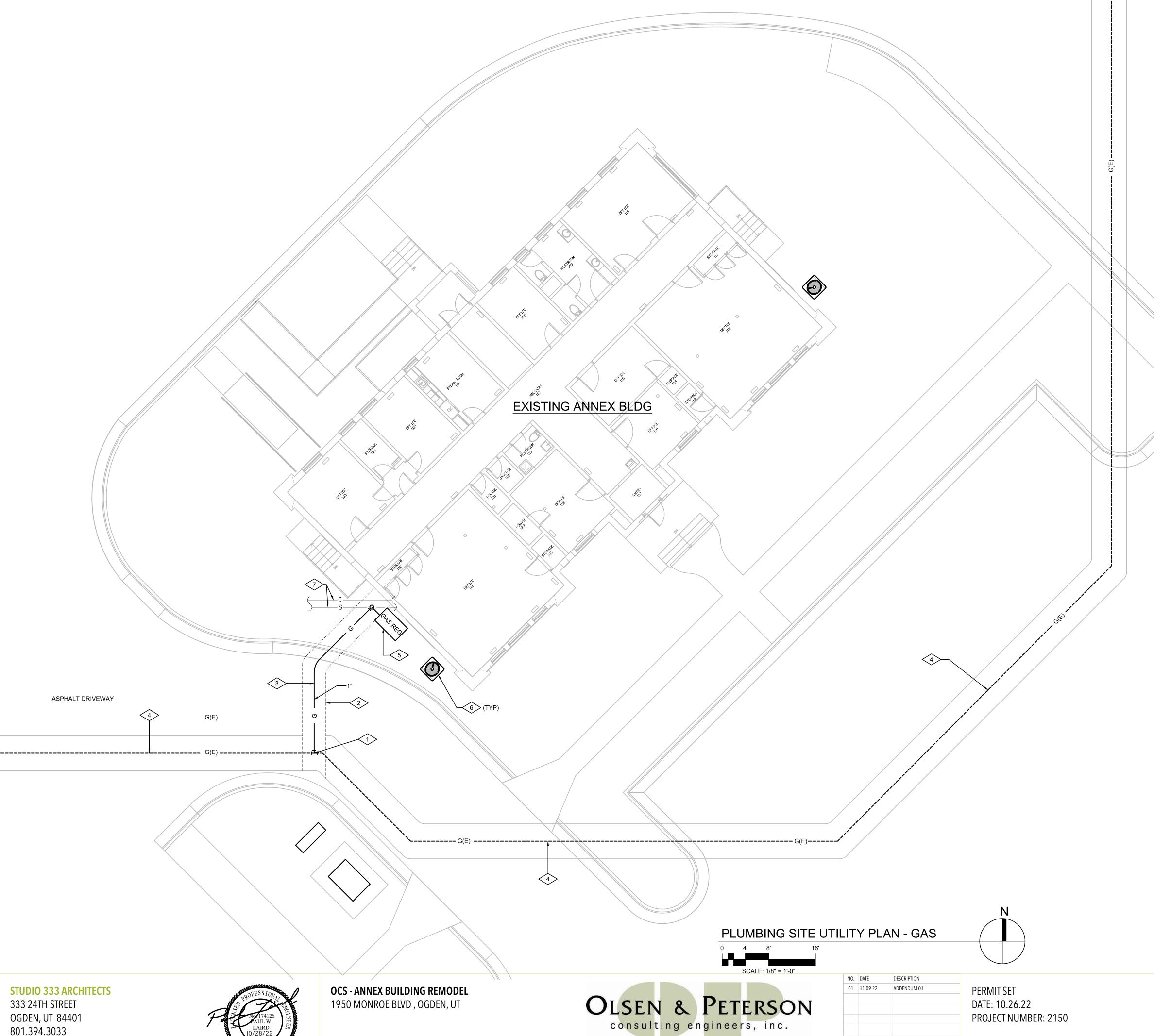




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- CONNECT TO EXISTING GAS LINE IN THIS LOCATION.
 PROVIDE COMPATIBLE FITTING TO MATCH EXISTING GAS
 LINE PIPE SIZE AND MATERIAL.
- SAWCUT ASPHALT PAVING AND EXCAVATE AS NEEDED TO INSTALL NEW GAS LINE. REPAIR AND PATCH PAVEMENT UPON COMPLETION OF WORK.
- 3 INSTALL NEW SDR 11 POLYPROPYLENE GAS LINE COMPLETE WITH TRACER WIRE AND WARNING TAPE. EXTEND GAS LINE TO NEW GAS REGULATOR AT THE ANNEX BUILDING.
- EXISTING BURIED GAS LINE. CONTRACT WITH BLUE STAKES FOR GAS LINE AND UTILITY LOCATION SERVICES PRIOR TO START OF CONSTRUCTION.
- NEW GAS REGULATOR. SEE DRAWING P100 FOR CONTINUATION.
- NEW MECHANICAL EQUIPMENT. COORDINATE LOCATION OF GAS LINE WITH MECHANICAL EQUIPMENT LOCATIONS.
- EXISTING BURIED STEAM AND CONDENSATE PIPING BELOW GRADE. COORDINATE LOCATION OF NEW GAS LINE WITH EXISTING BURIED PIPING.

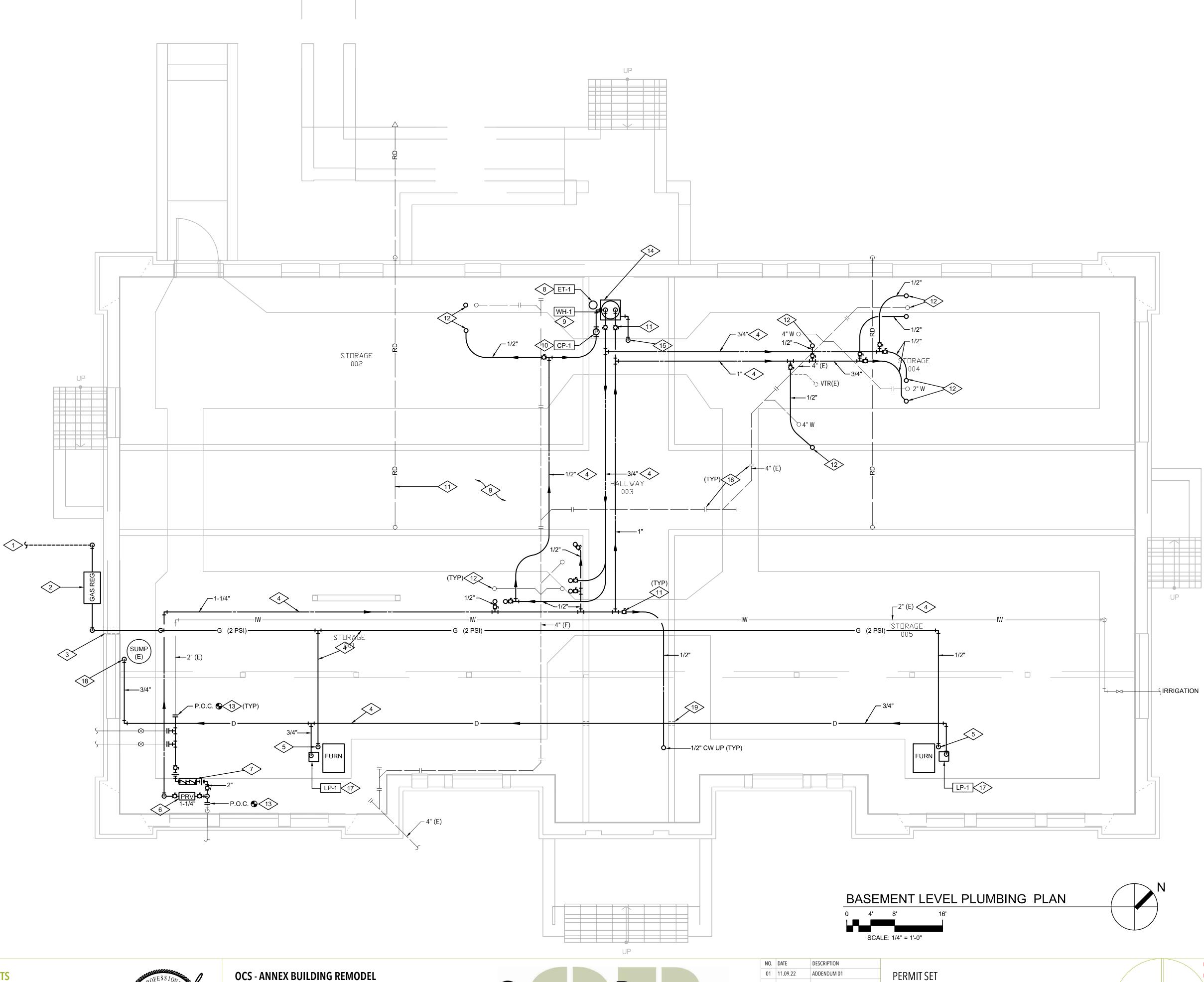
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- NEW GAS SERVICE LINE BY PLUMBING CONTRACTOR. SEE DRAWING P001 FOR CONTINUATION.
- 2 BUILDING GAS SERVICE LOCATION. EXTEND NEW GAS LINE TO BUILDING AND PROVIDE NEW GAS REGULATOR FOR 2 PSIG SERVICE. COORDINATE REGULATOR AND NEW GAS LINE LOCATION WITH EXISTING BURIED STEAM AND CONDENSATE PIPING. SEE DETAIL 2/P501
- FOUNDATION PIPE THRU WALL PENETRATION. CORE DRILL WALL PIPE PENETRATION. GROUT OPENING AROUND PIPE SOLID.
- PIPING TO RUN HIGH CLOSE TO STRUCTURE. COORDINATE LOCATION WITH MECHANICAL, STRUCTURAL, AND ELECTRICAL
- PIPE 1/2" GAS LINE TO NEW FURNACE LOCATION. SEE DETAIL 1/P501
- 6 PRV STATION. SEE DETAIL 4/P501
- 7 DOUBLE CHECK VALVE ASSEMBLY. SEE DETAIL 4/P501
- 8 MOUNT DOMESTIC WATER EXPANSION TANK ON WALL IN THIS LOCATION. SEE DETAIL 6/P501
- 9 INSTALL ELECTRIC WATER HEATER IN THIS LOCATION. MOUNT WATER HEATER IN GALVANIZED DRIP PAN. SEE DETAIL 6/P501.
- 10 INSTALL DOMESTIC HOT WATER CIRCULATION PUMP IN THIS LOCATION. SEE DETAIL 6/P502
- 11) INSTALL ISOLATION BALL VALVES IN ACCESSIBLE LOCATION FOR SERVICE.
- PIPE 1/2" CW OR HW LINE UP TO PLUMBING FIXTURE ABOVE. TRANSITION FROM PEX TUBING TO COPPER PIPE PRIOR TO FLOOR PENETRATION. NO PEX TUBING ALLOWED ABOVE FLOOR.
- POINT OF CONNECTION (P.O.C.) CONNECT TO EXISTING PIPING IN THIS LOCATION. MATCH PIPING SIZE AND MATERIAL OR PROVIDE COMPATIBLE TRANSITION.
- PIPE WATER HEATER P&T VALVE DISCHARGE FULL SIZE TO DRAIN
- 215 PIPE 3/4" DRAIN PAN LINE TO FLOOR.
- PROVIDE NEW PIPE HANGER SUPPORTS FOR EXISTING DWV PIPING. SEE DETAIL 1/P502
- INSTALL CONDENSATE LIFT PUMP IN THIS LOCATION. SEE DETAIL 2/P502
- PIPE 3/4" CONDENSATE DRAIN LINE TO SUMP.
- CORE DRILL HOLE IN WALL TO FACILITATE INSTALLATION OF PIPING THRU WALL (TYP)

STUDIO 333 ARCHITECTS 333 24TH STREET

OGDEN, UT 84401 801.394.3033

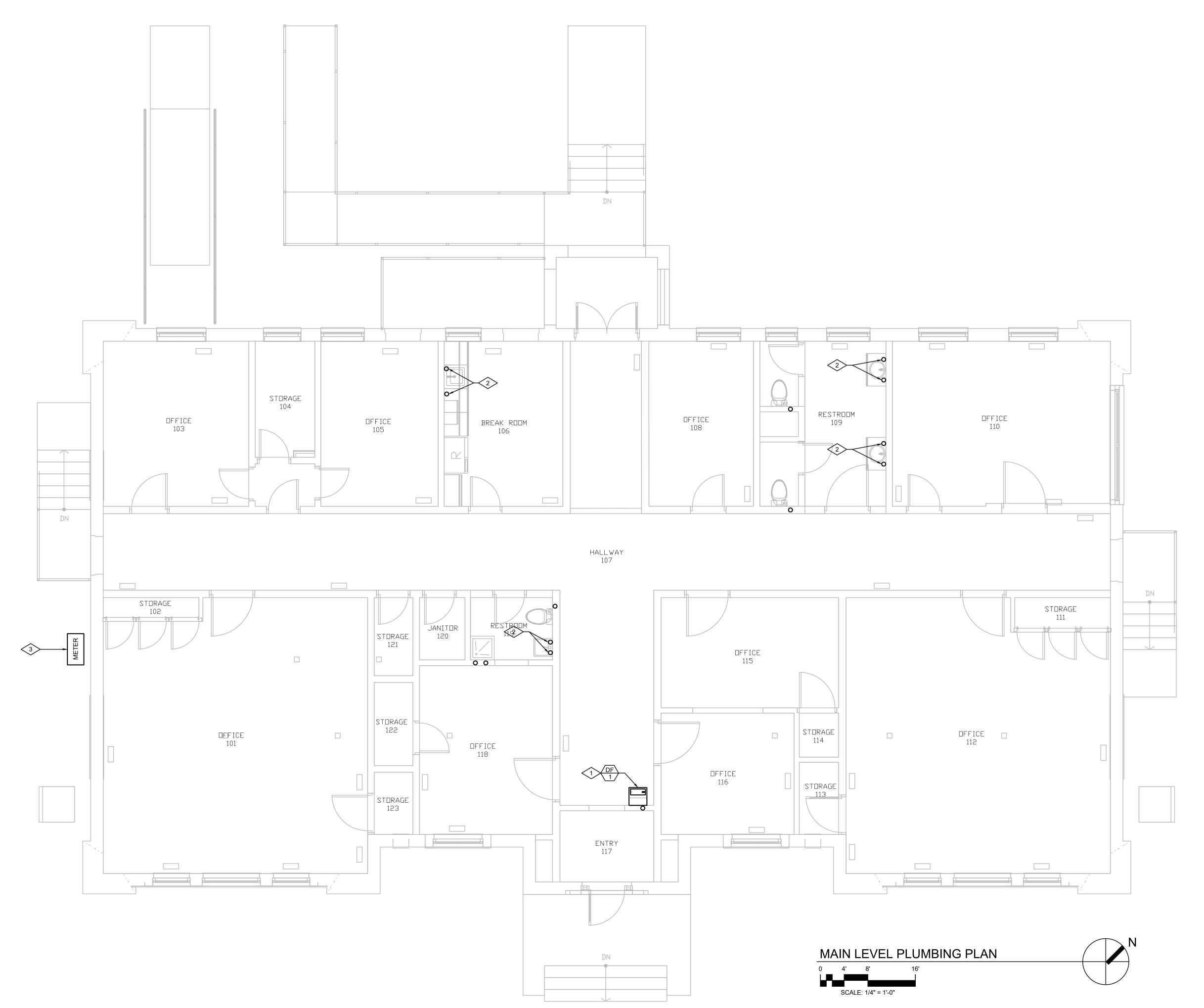


1950 MONROE BLVD, OGDEN, UT



Phone: (801) 486-4646 Fax: (801) 467-2531







- 1 INSTALL NEW DRINKING FOUNTAIN WITH BOTTLE FILLER IN THIS LOCATION. MOUNT DRINKING FOUNTAIN SECURELY TO WALL. REMAKE ALL WATER AND DRAIN CONNECTIONS.
- WHERE HW AND CW WATER LINES ARE EXPOSED, PROVIDE COPPER WATER TUBING WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION AND 20 MIL THICK WHITE PVC JACKET.
- NEW GAS REGULATOR . SEE DRAWING P100.

STUDIO 333 ARCHITECTS333 24TH STREET
OGDEN, UT 84401
801.394.3033

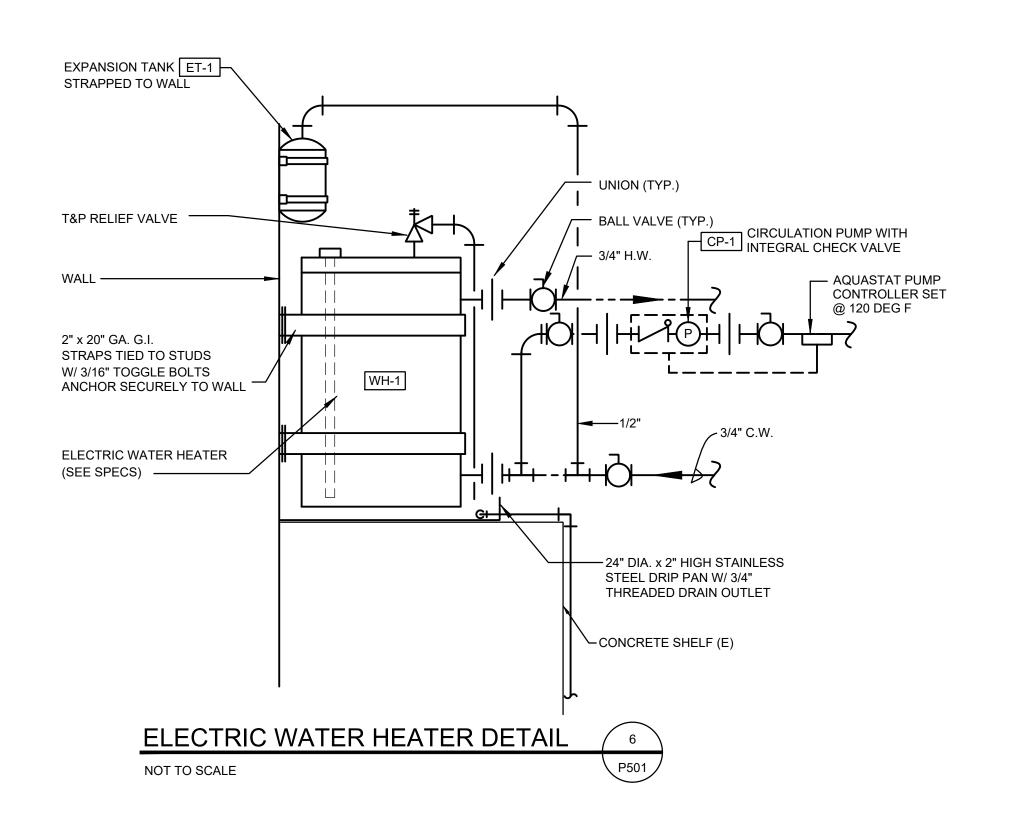


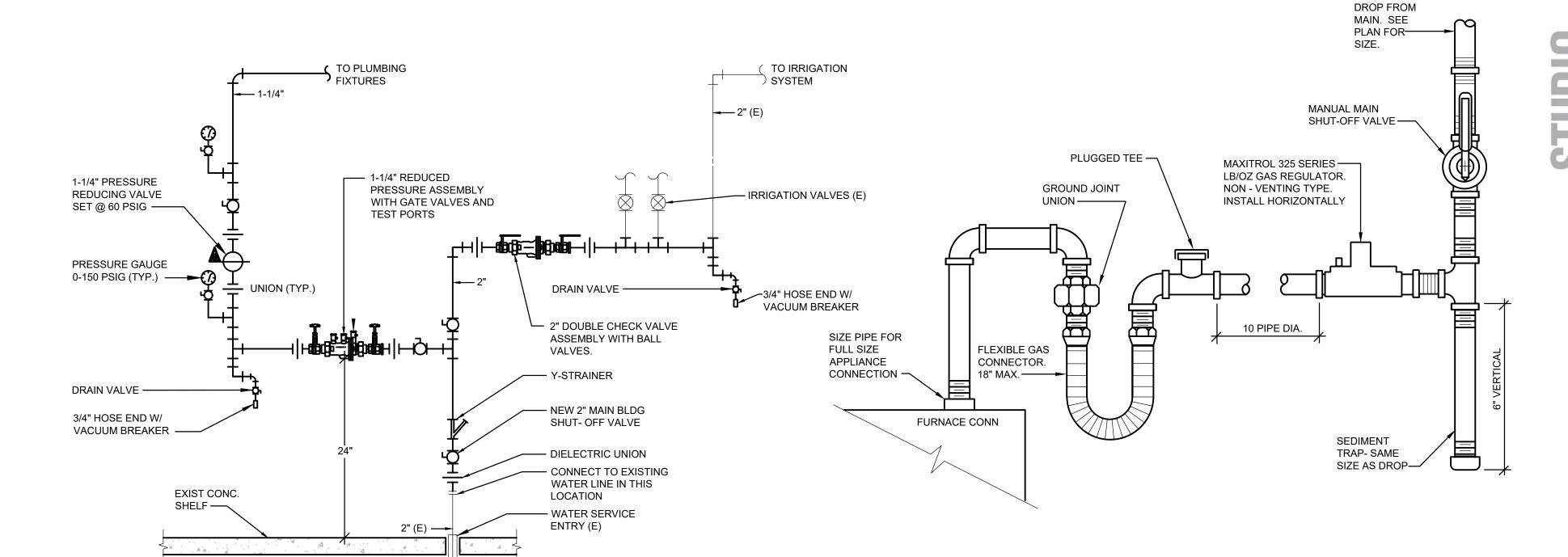
OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD , OGDEN, UT









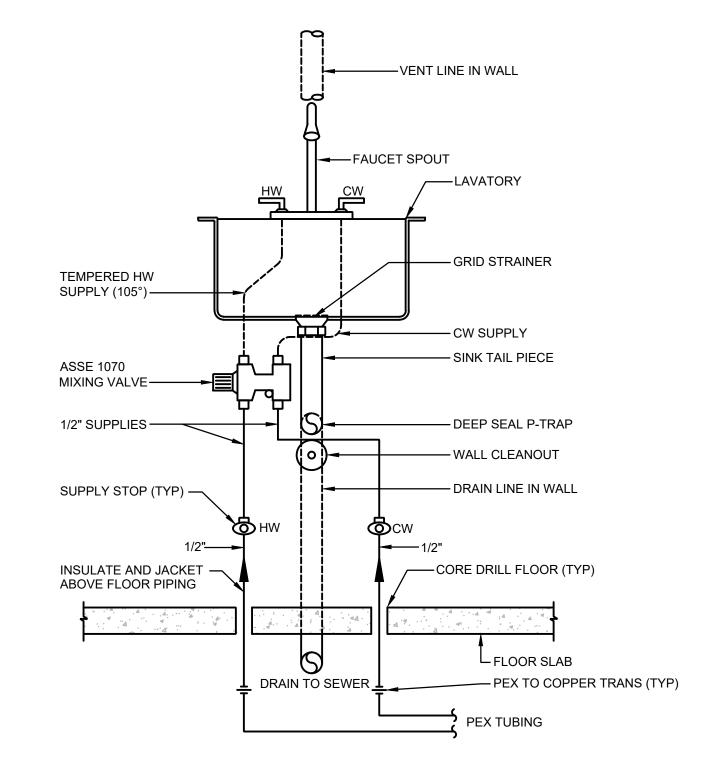


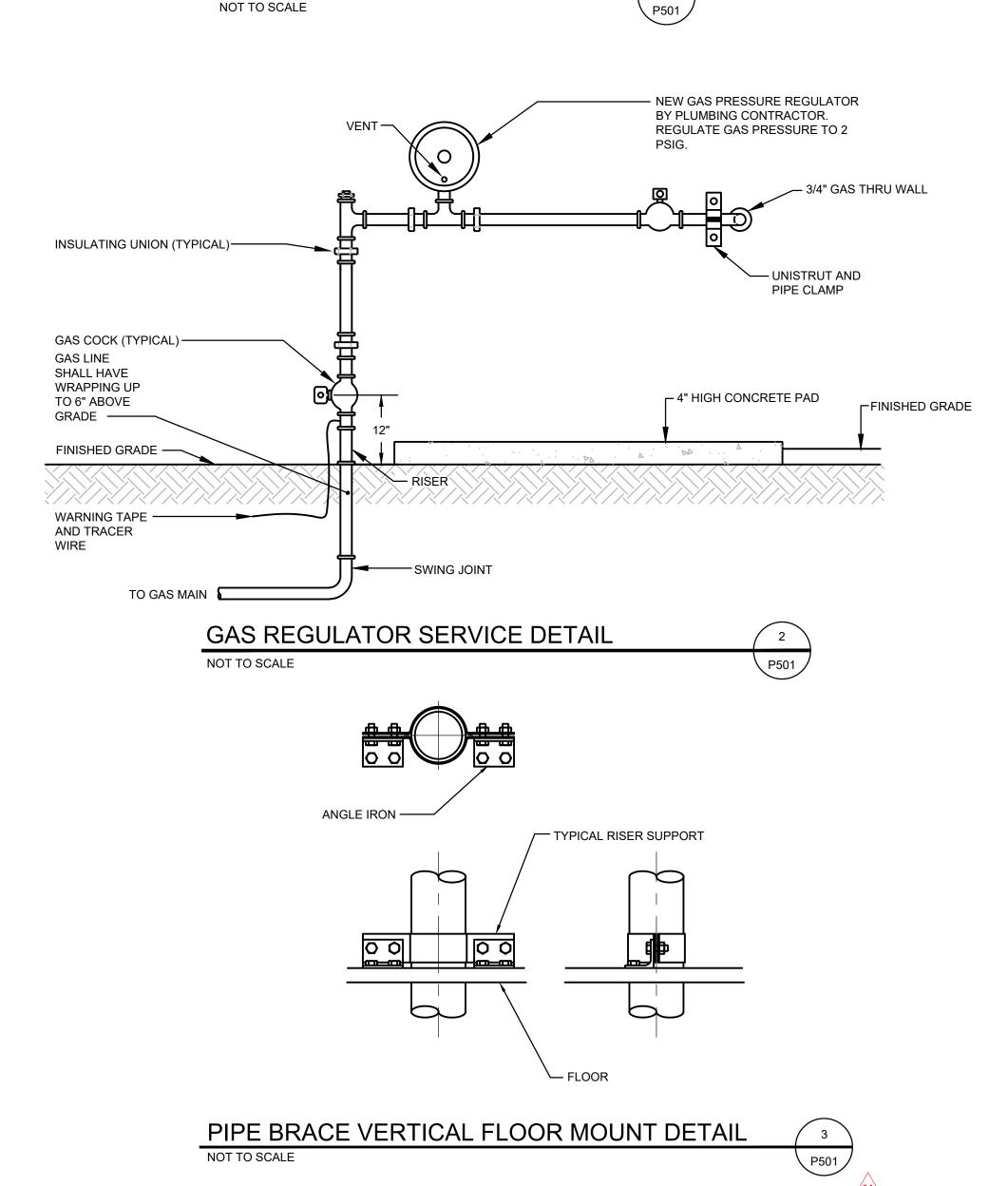
WATER PRESSURE REDUCING STATION DETAIL NOT TO SCALE

- WATER SUPPLY

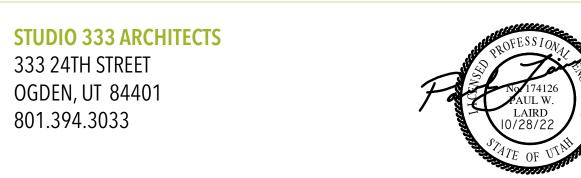
FROM MAIN

P501





GAS LINE CONNECTION DETAIL



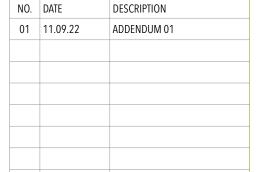




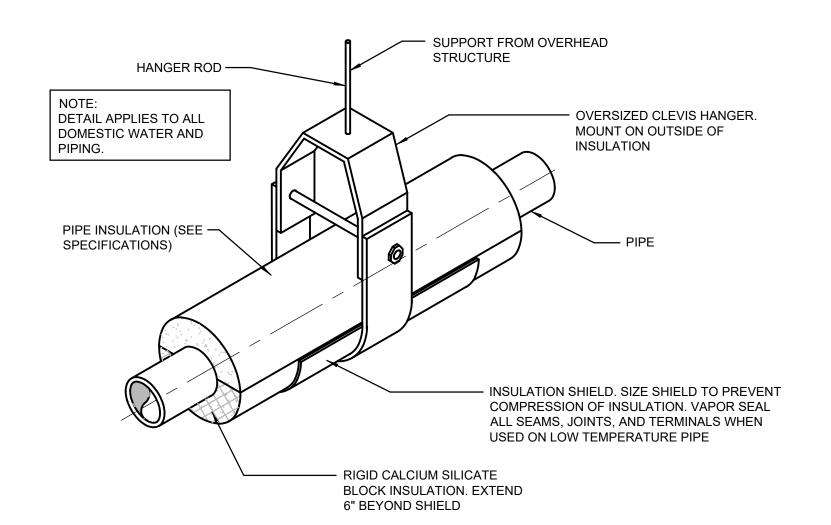


PIPING INSTALLATION DETAIL

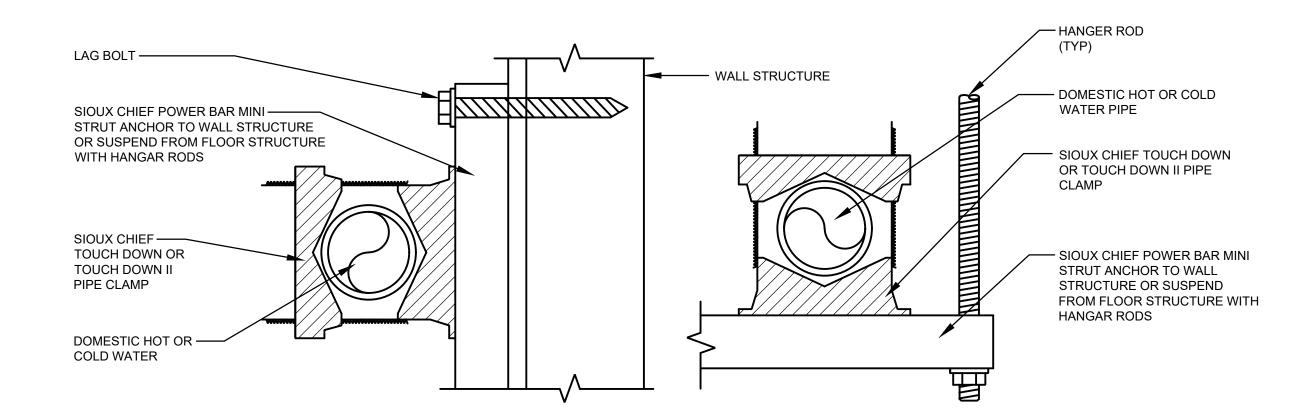
NOT TO SCALE



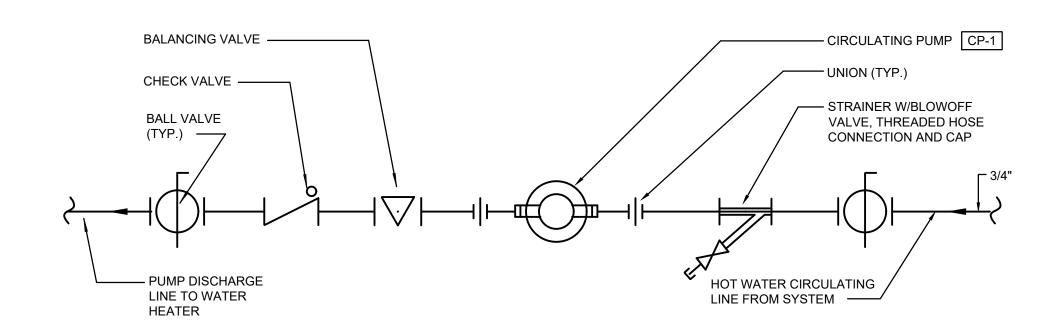






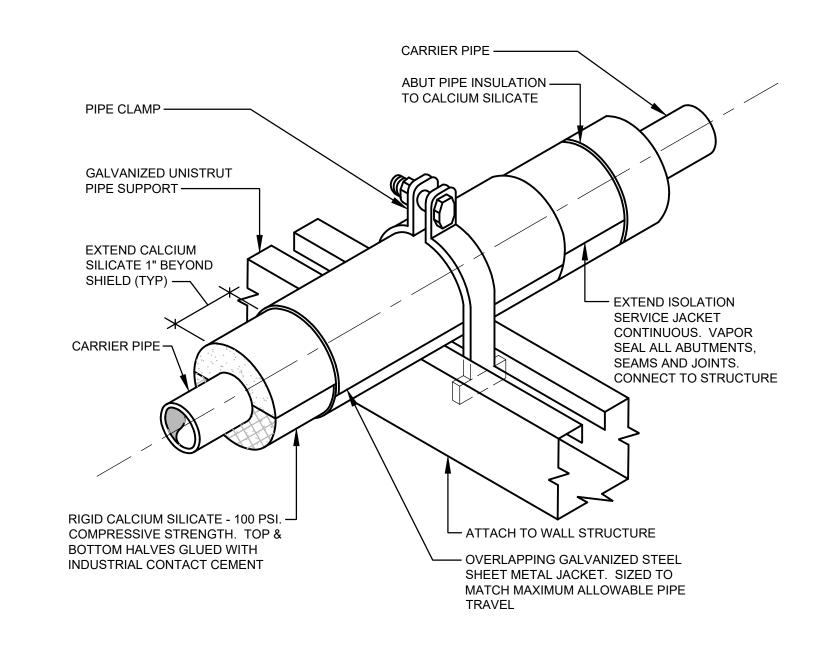




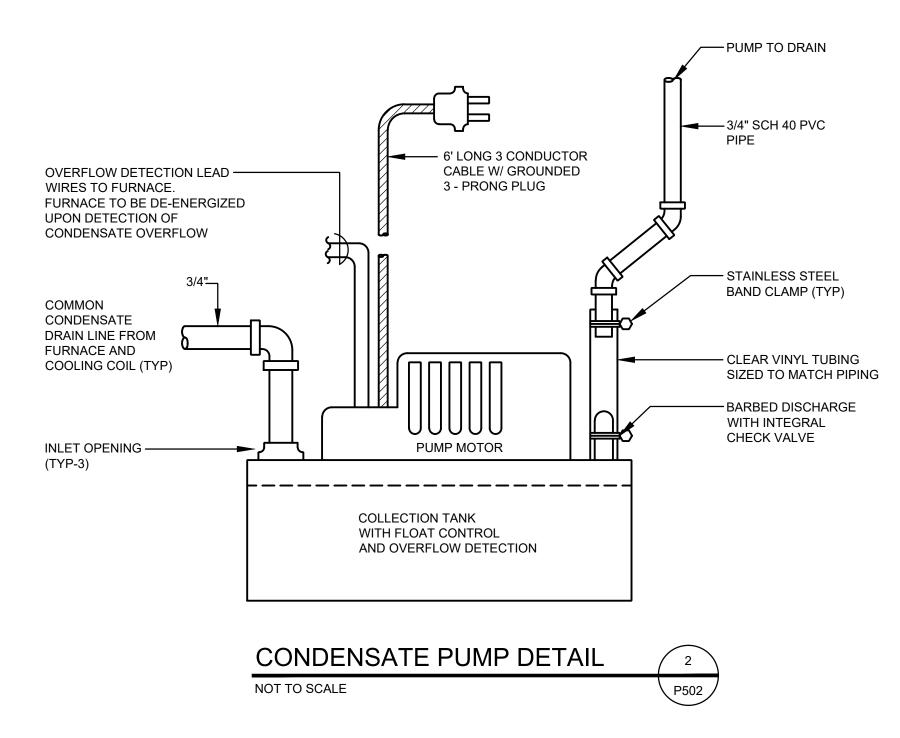












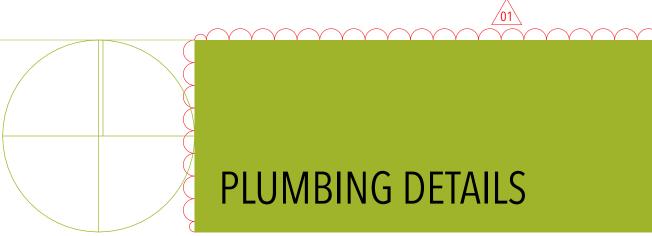




OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD, OGDEN, UT







	PLUMBING EQUIPMENT SCHEDULE
SYMBOL	EQUIPMENT DESCRIPTION
WH-1	WATER HEATER: ELECTRIC STORAGE TANK TYPE, 19 GALLON STORAGE CAPACITY, 3 KW INPUT, 14 GALLON/HR RECOVERY RATE,@ 90 DEG F TEMP RISE., FURNISH COMPETE WITH TEMPERATURE AND PRESSURE RELIEF VALVE AND THREADED HOSE DRAIN CONNECTION. PROVIDE PLATFORM FOR WALL MOUNTING WITH INSULATED BASE AND SEISMIC WALL STRAP MANUFACTURER: BRADFORD WHITE MODEL: RE120U6 ELECTRICAL: 208 VOLT, 1 PHASE, 3 KW ELEMENT SIZE: 18" DIA X 24.75" HIGH OPER WEIGHT: 225 LBS
ET-1	EXPANSION TANK: NON-ASME TYPE, 2.0 GALLON TOTAL VOLUME, 0.45 ACCEPTANCE FACTOR, 1/2" NPT CONNECTION, MAXIMUM WORKING PRESSURE = 150 PSIG, NSF 61 LISTED, MAX ALLOWABLE WORKING TEMP = 200 DEG F MANUFACTURER: AMTROL MODEL: ST-5 ELECTRICAL: NONE SIZE: 8" DIA X 12.75" HIGH OPER WEIGHT: 25 LBS
CP-1	CIRCULATION PUMP: DOMESTIC WATER, BRONZE CONSTRUCTION, STAINLESS STEEL SHAFT, INTEGRAL CHECK VALVE, 2 GPM @ 5 FT HEAD, 1/2" CONNECTIONS, FURNISH COMPLETE WITH AQUASTAT PUMP CONTROLLER SET AT 120 DEG. F. MANUFACTURER: TACO MODEL: 006-IFC ELECTRICAL: 1/25 HP 120 VOLT, 1PHASE SIZE: 2" x 6" x 7" WEIGHT: 10 LBS
LP-1	LIFT PUMP: CONDENSATE LIFT PUMP, 1/2 GALLON STORAGE TANK WITH THREE INLET OPENINGS AND CAP PLUGS, 20 GPH @ 15 FT HEAD, 20 FT MAX HEAD, FLOAT ACTIVATED SWITCH WITH HIGH LEVEL WATER DETECTION AND OVERFLOW DETECTION SWITCH, 3/8" BARBED DISCHARGE ADAPTER WITH INTEGRAL CHECK VALVE. EQUIPPED WITH 6 FT LONG CONDUCTOR AND 3-PRONG GROUNDED PLUG. MANUFACTURER: LITTLE GIANT MODEL: VCMA-20ULST ELECTRICAL: 1/30 HP 120 VOLT, 1PHASE SIZE: 5" x 11" x 7"HIGH WEIGHT: 7 LBS

BUILDING SERVICES PIPING MATERIALS LISTING AND IDENTIFICATION

Potable Water Piping Systems:

Above-Grade - Copper pipe and tubing meeting requirements of ASTM B 88, Type L with wrought copper sweat fittings with 95/5 or 96/4 Tin-Antimony solder.

Identification: Cold Water (CW): Blue Lettering on White Background. Hot Water (HW): Red Lettering on White Background.

Above-Grade - Cross-Linked Polyethylene (PEX) tubing meeting requirements of ASTM F876 and ASTM F877 CSA International B137.5, with mechanical flare or crimp fittings>

Sanitary Waste and Vent Piping Systems:

Above Grade - ABS Schedule 40 solid-wall ASTM D 2661, plastic pipe and socket type fittings, made to ASTM D 3311, drain, waste, and vent patterns. Joined using pipe cement meeting requirements of ASTM 2235.

Identification: Green Lettering on White Background.

Refrigerant Piping Systems:

Hard copper tubing meeting requirements of ASTM B 280, hard drawn straight lengths with wrought copper brazed fittings with AWS Classification BCuP-4 Copper Phosphorus or AWS Classification BCuP-5 Copper Phosphorus rods and white brazing or high quality silver solder flux. Identification: Black Lettering on Yellow Background

Natural Gas Piping Systems:

Above Grade - Schedule 40 black carbon steel pipe meeting requirements of ASTM A 53 with standard weight butt welded steel forged welding type fittings.

Identification: Black Lettering on Yellow Background.

Painting: All exposed gas piping on roof shall be painted with two coats of yellow enamel grade paint and stenciled "GAS".

Below Grade - Polyethylene pipe and fittings meeting requirements of ASTM D 2513 with No. 14 coated copper trace wire and warning tape.

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES (1)
DF 1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	-	SINGLE LEVEL - ELECTRIC W/ BOTTLE FILLER - (ADA) 120V /1/60 POWER

NOTE

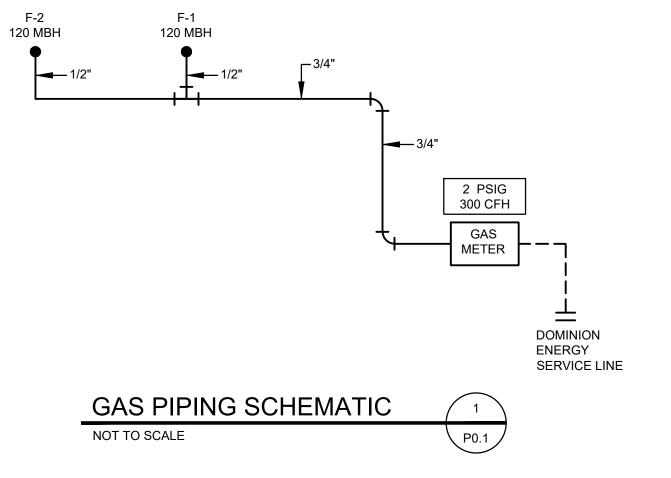
(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN OR INSTALLATION.

PIPING INSULATION SCHEDULE									
	INSULATION COND	UCTIVITY	≥ NOMINAL PIPE OR TUBE SIZE, IN.						
FLUID OPERATING TEMPERATURE RANGE	CONDUCTIVITY,	MEAN RATING	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8		
(°F) AND USAGE	BTU IN/ FT 2 °F	TEMPERATURE, °F	INSULATION THICKNESS, IN.						
> 350	0.32 TO 0.34	250	4.5	5.0	5.0	5.0	5.0		
251 TO 350	0.29 TO 0.32	200	3.0	4.0	4.5	4.5	4.5		
201 TO 250	0.27 TO 0.30	150	2.5	2.5	2.5	3.0	3.0		
141 TO 200	0.25 TO 0.29	125	1.5	1.5	2.0	2.0	2.0		
105 TO 140	0.22 TO 0.28	100	1.0	1.0	1.5	1.5	1.5		
400 TO 60	0.21 TO 0.27	75	0.5	0.5	1	1.5	1.5		
< 40	0.20 TO 0.29	50	0.5	1.0	1.5	2.0	2.0		

TABLE APPLIES TO ALL DOMESTIC HOT AND COLD WATER SYSTEMS, STORM DRAIN
AND REFRIGERANT PIPING SYSTEMS.

NATURAL GAS PIPING SCHEDULE							
EQUIPMENT	INPUT (BTU)	INPUT (CFH)	GAS CONN (IN.)				
F-1 F-2	120,000 120,000	140 140	1/2" 1/2"				
TOTAL	240,000	280					

TOTAL DEVELOPED PIPE LENGTH = 90 FT GAS DELIVERY PRESSURE = 2 PSIG METER CAPACITY = 300 CFH



GENERAL PLUMBING NOTES:

A. CODE COMPLIANCE: ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC) AND NATIONAL ELECTRICAL CODE (NEC) INCLUDING ALL STATE AND LOCAL AMENDMENTS AND LIFE SAFETY CODES ENFORCED OR CURRENTLY IMPLEMENTED BY THE BUILDING AUTHORITY HAVING JURISDICTION IN WHICH THE PROJECT RESIDES.

- B. COORDINATION PROCEDURES: CONTRACTOR SHALL COORDINATE ALL PLUMBING (PL) WORK WITH THE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL (M), FIRE PROTECTION (FP) AND ELECTRICAL TRADES OF THIS PROJECT. REFER TO DRAWINGS, SPECIFICATIONS, SUBMITTALS AND SHOP DRAWINGS OF THE VARIOUS TRADES FOR PROJECT SPECIFIC REQUIREMENTS FOR COORDINATION PURPOSES.
- C. DRAWINGS: DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED. PIPE ROUTING, PLUMBING EQUIPMENT AND FIXTURE LOCATIONS INDICATED ON THE DRAWINGS IS APPROXIMATE. NO ATTEMPT HAS BEEN MADE TO SHOW ALL PLUMBING OFFSETS, EQUIPMENT AND DEVICES. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL PLUMBING EQUIPMENT AND FIXTURES REQUIRED PRIOR TO BIDDING. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND TRANSITIONS AS NEEDED TO FACILITATE INSTALLATION OF THE PLUMBING SYSTEMS IN HARMONY WITH THE OTHER RESPECTIVE TRADES OF THE PROJECT.
- D. EQUIPMENT SELECTIONS: ALL PROJECT EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE SELECTED TO MEET AND OPERATE AT THE CAPACITIES INDICATED IN THE CONTRACT DOCUMENTS AT THE JOB SITE CONDITIONS. JOB SITE CONDITIONS INCLUDE ELEVATION ABOVE SEA LEVEL, AMBIENT SUMMER AND WINTER DRY BULB/WET BULB TEMPERATURES, WIND DIRECTION AND PROPERTY LINES.
- E. SUBMITTALS: PRODUCT DATA FOR ALL PLUMBING EQUIPMENT AND MATERIALS TO BE PROVIDED BY THE PLUMBING CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AS PART OF THE SUBMITTAL PROCESS IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO ORDERING, PURCHASING OR INSTALLATION.
- F. WORKMANSHIP: ALL PLUMBING WORK TO BE INSTALLED IN A PROFESSIONAL AND WORKMANLIKE MANNER. INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONSTRUCTION INDUSTRY STANDARDS.
- G. INVERTS: ALL INVERT PIPE ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED OFF OF A FINISHED FLOOR ELEVATION OF 100'-0". THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL AND SITE CIVIL CONTRACTOR FOR PIPE CONNECTION LOCATIONS. PLUMBING CONTRACTOR SHALL CONNECT TO THE SITE UTILITY PIPING; MATCHING PIPING SIZE AND MATERIAL OR PROVIDING COMPATIBLE TRANSITIONS.
- H. SEISMIC CONDITIONS: ALL PLUMBING PIPING AND EQUIPMENT INSTALLED SHALL BE SEISMICALLY BRACED OR RESTRAINED IN COMPLIANCE WITH REQUIREMENTS IN THE IBC. PROVIDE VIBRATION ISOLATION AND SEISMIC-RESTRAINT DEVICES, RESTRAINTS AND SUPPORTS AS REQUIRED. PROVIDE AND SUBMIT SEISMIC RESTRAINT CALCULATIONS, DETAILS, DESIGN CRITERIA AND ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- I. WARRANTY: THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL PLUMBING MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE NEW AND OF GOOD QUALITY, UNLESS OTHERWISE REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS NOT INHERENT IN THE QUALITY REQUIRED OR PERMITTED; AND THAT THE WORK WILL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. WARRANTY PERIOD FOR THIS WORK SHALL EXTEND FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION.
- J. CHANGES: IF CONCEALED OR UNKNOWN PHYSICAL CONDITIONS ARE ENCOUNTERED AT THE SITE THAT DIFFER MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS OR FROM THOSE CONDITIONS ORDINARILY FOUND TO EXIST, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER OR ARCHITECT OF THOSE CONDITIONS. THE CONTRACTOR SHALL BE INSTRUCTED AND DIRECTED ON HOW TO PROCEED WITH ANY REQUIRED CHANGES. THE CONTRACT SUM AND CONTRACT TIME SHALL BE SUBJECT TO EQUITABLE ADJUSTMENT FOR CHANGES TO THE CONTRACT DOCUMENTS FOR SUCH CHANGES. SHOULD THE CONTRACTOR PROCEED WITH THE WORK WITHOUT INSTRUCTION, NOTIFICATION OF CHANGE OR AN APPROVED CHANGE ORDER; HE DOES SO AT HIS OWN FINANCIAL RISK.
- K. EXISTING CONDITIONS: PRIOR TO BIDDING OR BEGINNING THE WORK THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND COMPARE THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. ACCEPTANCE OF THE CONTRACT IS ACKNOWLEDGMENT BY THE CONTRACTOR THAT HE HAS VISITED THE SITE AND IS AWARE AND ACCEPTING OF THE EXISTING CONDITIONS.
- L. CLEANUP: DURING THE CONSTRUCTION AND UPON COMPLETION OF THE WORK, THE PLUMBING CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS NOT ECONOMICALLY RECOVERABLE SHALL BE REMOVED, TRANSPORTED AND LEGALLY DISPOSED OF OFF-SITE.
- M. UTILITY INTERRUPTIONS: EXISTING PLUMBING UTILITIES SHALL REMAIN IN SERVICE EXCEPT AS REQUIRED FOR SCHEDULED INTERRUPTIONS. INTERRUPTIONS OF SERVICE OR UTILITIES SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT AT LEAST TWO WEEKS IN ADVANCE.
- N. TIME IS OF THE ESSENCE: THE CONTRACTOR SHALL COMMENCE WORK UNDER THIS CONTRACT UPON RECEIPT OF THE OWNER'S WRITTEN NOTICE TO TO PROCEED. THE CONTRACTOR SHALL COMPLETE THE WORK AND HAVE IT READY FOR SUBSTANTIAL COMPLETION INSPECTION BY THE DATE NOTED IN THE CONTRACT.

PLUMBING PIPING LEGEND

DESCRIPTION	SYMBOL
WASTE	
VENT	
COLD WATER	
HOT WATER	
NATURAL GAS	
DRAIN	D

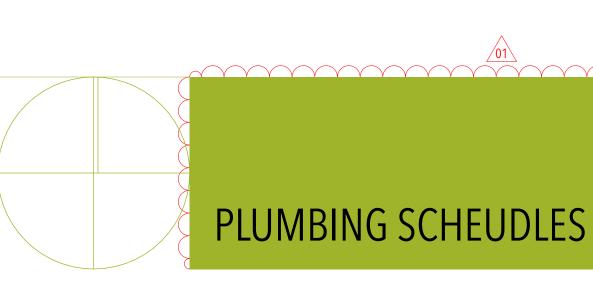
NO 174126
PAUL W.
LAIRD
10/28/22

OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD , OGDEN, UT





PERMIT SET
DATE: 10.26.22
PROJECT NUMBER: 2150



P601

333 24TH STREET

OGDEN, UT 84401

801.394.3033

STUDIO 333 ARCHITECTS

ABBREVIATIONS

(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
(X)	DEMOLISH/DELETE
AFF	ABOVE FINISHED FLOOR
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)
AL	ALUMINUM
BG	BELOW GRADE
С	CONDUIT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CLG	CEILING
со	CONDUIT ONLY
CTR	ABOVE COUNTER DEVICE
CU	COPPER
EM	EMERGENCY
EMC	DOMESTIC HOT WATER RECIRC.
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
IG	ISOLATED GROUND
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
NAC	NOTIFICATION APPLIANCE CIRCUIT
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PNL	PANEL
S	SWITCHED
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
	VANDAL RESISTANT
VR WC	
WG	WIRE GUARD WEATHER PROOF
WP	
XFMR	TRANSFORMER

ELECTRICAL LEGEND

			NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS		
§3	SNOW SENSOR		SINGLE RECEPTACLE	DC	DOOR CONTACT
(S)	HEAT TRACE	Θ	SPECIAL OUTLET TO MATCH EQUIPMENT PLUG	ES	ELECTRIC STRIKE
	LINEAR SUSPENDED PENDANT FIXTURE	Ø	SPECIAL OUTLET TO MATCH EQUIPMENT PLUG, FLUSH IN FLOOR	EH	ELECTRICAL HINGE
	LINEAR SUSPENDED PENDANT FIXTURE (EMERGENCY POWER)		EMERGENCY POWER OFF BUTTON, 46" AFF		ELECTRICAL LATCH
	RECESSED DOWN LIGHT	GA	GENERATOR ANNUNCIATOR	K	KEYCARD
	RECESSED DOWN LIGHT (EMERGENCY POWER)	<u> </u>	JUNCTION BOX		MAGNETIC DOOR HOLDER (WALL OR FLOOR MOUNT)
	RECESSED LIGHT FIXTURE		JUNCTION BOX, FLUSH IN FLOOR	ML	MAGNETIC LOCK
	RECESSED LIGHT FIXTURE (EMERGENCY POWER)		MAGNETIC STARTER	<u></u>	ROUND T.V./SECURITY CAMERA
Q Q	RECESSED WALL MOUNTED LIGHT FIXTURE	\bowtie	MANUAL STARTER	RX)	SECURITY REQUEST TO EXIT
	RECESSED WALL MOUNTED LIGHT FIXTURE (EMERGENCY POWER)	0	METER BASE		T.V./SECURITY CAMERA
\bigcirc	CEILING SURFACE / PENDANT SUSPENDED FIXTURE	\circ	MOTOR CONNECTION	СМ	FIRE ALARM CONTROL MODULE
	EMERGENCY BATTERY LIGHT FIXTURE	<u></u>	MULTI OUTLET ASSEMBLY	Z	FIRE ALARM FSD CONTROL RELAY
$\nabla\nabla\nabla$	LIGHT TRACK WITH LIGHT FIXTURE	PS	POWER SUPPLY	MM	FIRE ALARM MONITOR MODULE
<u> </u>	STRIP LIGHT FIXTURE		PULL BOX	FSD	FIRE SMOKE DAMPER
	SURFACE LIGHT FIXTURE	R	RELAY	<u>\$</u>	DUCT SMOKE DETECTOR
	SURFACE LIGHT FIXTURE (EMERGENCY POWER)	<u>\$</u>	SPLICE BOX	F	FIRE ALARM MANUAL PULL STATION
O	WALL MOUNTED LIGHT FIXTURE	\$ T	THERMAL SWITCH	€\$>	FIRE ALARM PRESSURE SWITCH
О	WALL MOUNTED LIGHT FIXTURE	\bigcirc	THERMOSTAT	₹\$>	FLOW SWITCH
	WALL MOUNTED LIGHT FIXTURE (EMERGENCY POWER)	T	TRANSFORMER (FLOOR PLAN)		HEAT DETECTOR
A H	WALL MOUNTED LIGHT FIXTURE (EMERGENCY POWER)	MF P	COMBINATION STARTER/FUSED DISCONNECT SWITCH	<\$>	O.S. & Y. VALVE TAMPER SWITCH
②	EXIT LIGHT CEILING	\square	COMBINATION STARTER/NON-FUSED DISCONNECT SWITCH	(3)	PHOTO ELECTRIC SMOKE DETECTOR
€H	WALL MOUNTED EXIT LIGHT	F	FUSED DISCONNECT SWITCH	0	RATE OF RISE/THERMAL DETECTOR
	DUAL POLE MOUNTED LIGHT FIXTURE	G	GENERATOR	Ē	FIRE ALARM BELL
₩	GROUND MOUNTED LIGHT FIXTURE		NONFUSE DISCONNECT SWITCH	=F=	FIRE ALARM CHIME
	POLE MOUNTED LIGHT FIXTURE	#	LIGHTING ARRESTOR	=FV =	FIRE ALARM CHIME/VISUAL
	POLE TOP MOUNTED LIGHT FIXTURE	_	RECESSED ELECTRICAL PANELBOARD	Ē⊲	FIRE ALARM HORN
\$3K	3-WAY KEY SWITCH		RECESSED EQUIPMENT CABINET AS NOTED	FV	FIRE ALARM VISUAL SIGNAL
\$3	3-WAY SWITCH		SURFACE ELECTRICAL PANEL		FIRE ALARM VISUAL SIGNAL WITH HORN
\$4	4-WAY SWITCH		SURFACE EQUIPMENT CABINET		FIRE ALARM VISUAL SIGNAL WITH SPEAKER
\$x	EXPLOSION PROOF KEY SWITCH	Д Ц	19" TELECOM EQUIPMENT RACK WITH VERTICAL WIRE MGMT.	ANN FACP	FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL
\$ _K \$ _{LM}	LOW VOLTAGE MASTER	₹ 3D,1P	COMMUNICATIONS OUTLET - ABOVE COUNTER: D=DATA, P=TELEPHONE, F=FIBER, # INDICATES QTY. NO DESIGNATION=(2)	FAVE	FIRE ALARM VOICE EVACUATION PANEL
\$LM \$LV	LOW VOLTAGE SWITCH	V 32,	DATA OUTLET, (1) TELEPHONE OUTLET COMMUNICATIONS OUTLET - FLUSH IN FLOOR: D=DATA,	NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER
\$M	MOMENTARY CONTACT SWITCH	▼ 3D,1P	P=TELEPHONE, F=FIBER, # INDICATES QTY. NO DESIGNATION=(2) DATA OUTLET, (1) TELEPHONE OUTLET	RFCC	REMOTE FIRE COMMAND CENTER
	PILOT LIGHT		COMMUNICATIONS OUTLET: D=DATA, P=TELEPHONE, F=FIBER, #	\bigcirc	DRAWING NOTE DESIGNATOR
\$ _{PB}	PUSHBUTTON SWITCH	▼ 3D,1P	INDICATES QTY. NO DESIGNATION=(2) DATA OUTLET, (1) TELEPHONE OUTLET	#	LIGHT FIXTURE DESIGNATION
\$ _{RC}	REMOTE CONTROL	$\overline{f y}^{\#}$	DATA OUTLET-ABOVE COUNTER: # INDICATES QTY.; NO DESIGNATION =(2) DATA OUTLET		> MECHANICAL EQUIPMENT DESIGNATION
\$	SINGLE POLE SWITCH	#	DATA OUTLET-FLUSH IN FLOOR:# INDICATES QTY.; NO		CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR
\$ _{VR}	SWITCH WITH VANDAL RESISTANT COVER PLATE	oxdots	DESIGNATION =(2) DATA OUTLET		CONDUIT CONCEALED IN WALLS, CEILING OR FLOOR
C	CONTACTOR	$\nabla^{\#}$	DATA OUTLET: # INDICATES QTY.; NO DESIGNATION =(2) DATA OUTLET		EQUIPMENT GROUND CONDUCTOR
Ю	DIMMER SWITCH, WALL MOUNT	_#	TELEPHONE OUTLET - ABOVE COUNTER: # INDICATES QTY.; NO		EXISTING CONDUIT
ECU	EMERGENCY CONTROL RELAY UNIT	▼ "	DESIGNATION =(1) TELEPHONE OUTLET TELEPHONE OUTLET - FLUSH IN FLOOR: # INDICATES QTY.; NO	~~~	FLEXIBLE CONDUIT
OS	OCCUPANCY SENSOR, CEILING MOUNT	T	DESIGNATION =(1) TELEPHONE OUTLET	•	STUB DOWN
HOS	OCCUPANCY SENSOR, WALL MOUNT	*	TELEPHONE OUTLET: # INDICATES QTY.; NO DESIGNATION =(1) TELEPHONE OUTLET		STUB OUT
	PHOTO CELL			0	STUB UP
PP	POWER PACK		19" TELECOM EQUIPMENT RACK	•	200A LOADBREAK MOLDED PRODUCT TERMINATION (15KV)
SP LED	SLAVE POWER PACK		CABLE TRAY FOR DATA TELEPHONE AND SOUND/PAGING ONLY (NO CONTROL WIRING)		
HTS Name	DIGITAL TIME SWITCH		,	o −S − ,⊘	600A DEADBREAK MOLDED PRODUCT TERMINATION (15KV)
	COMBO FLOORBOX WITH DUPLEX RECEPTACLE AND DATA COMBO FLOORBOX WITH QUADRAPLEX RECEPTACLE AND DATA	©	CLOCK, WALL MOUNTED		BREAKER BREAKER ENCLOSED
	DUPLEX RECEPTACLE	O O	INTERCOM STATION, SECURITY		G&W UNIVERSAL CE SPLICE (15KV)
	DUPLEX RECEPTACLE (EMERGENCY POWER)		RESCUE ANNUNCIATOR STATION	o- -	G&W UNIVERSAL CE TERMINATION (15KV)
	DUPLEX RECEPTACLE GFI		RESCUE CALL STATION	⊕	MANHOLE
	DUPLEX RECEPTACLE ISOLATED GROUND	∐ (MS)	SECURITY MOTION SENSOR, CEILING MOUNTED	↓ ↓	MEDIUM VOLTAGE SPLICE (15KV HEATSHRINK OR LOADSHRINK)
	DUPLEX RECEPTACLE, FLUSH CEILING	O O	SECURITY MOTION SENSOR, WALL MOUNTED		TRANSFORMER (ONE-LINES)
<i>∞</i> Ø	DUPLEX RECEPTACLE, FLUSH CEILING ISOLATED GROUND	(WIRELESS TRANSMITTER	AMP	AMP (ONE-LINE)
Ф	DUPLEX RECEPTACLE, FLUSH IN FLOOR	•	PUSH BUTTON	(S)	CEILING SPEAKER, RECESSED
0	DUPLEX RECEPTACLE, PEDESTAL MOUNTED	••	START-STOP BUTTON		EQUIPMENT CABINET
•	POKE-THRU DEVICE	•••	UP-DOWN-STOP BUTTON		MICROPHONE RECEPTACLE, FLUSH FLOOR
₩	QUADRAPLEX RECEPTACLE		BELL	₩ H	MICROPHONE RECEPTACLE, WALL
+	QUADRAPLEX RECEPTACLE GFI		BUZZER	SP	SPLITTER
	QUADRAPLEX RECEPTACLE ISOLATED GROUND	===	CHIME	Ö	T.V. OUTLET
₩	QUADRAPLEX RECEPTACLE, PEDESTAL MOUNTED		PROGRAM HORN	©	VOLUME CONTROL
ll 👄	PANCE RECEPTACIE	CD.	CARD READER	ര	WALL SPEAKER



DRAWING INDEX

SYMBOLS, ABBREVIATIONS, & DRAWING INDEX BASEMENT LEVEL ELECTRICAL DEMO PLAN 1ST LEVEL ELECTRICAL DEMO PLAN 1ST LEVEL LIGHTING PLAN EL1.1

BASEMENT LEVEL POWER PLAN 1ST LEVEL POWER PLAN EP1.2 BASEMENT LEVEL SYSTEM PLAN EY1.1 1ST LEVEL SYSTEM PLAN EY1.2 EY2.1

EX1.1

FIRE ALARM RISER DIAGRAM ELECTRICAL SCHEDULES

STUDIO 333 ARCHITECTS

333 24TH STREET OGDEN, UT 84401 801.394.3033





RANGE RECEPTACLE



CR CARD READER



PERMIT SET DATE: 10.26.22 PROJECT NUMBER: 2150

SH WALL SPEAKER





						PANEL	: I (EX)							
120	240	3	W	1	PH		100	Amps			Main Breaker			KAIC
DESCRIPTION	TYPE	LOAD	BKR	Р	CKT	A	В	CKT	BKR	Р	TYPE	LOAD	DESCRIPTION	
EXISTING LOAD			20	1	1	0		2	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	3		0	4	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	5	0		6	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	7		0	8	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	9	0		10	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	11		0	12	30	2			EXISTING LOAD	
EXISTING LOAD			20	1	13	0		14	-	-			-	
EXISTING LOAD			20	1	15		0	16	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	17	0		18	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	19		0	20	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	21	0		22	20	1			EXISTING LOAD	
EXISTING LOAD			20	1	23		0	24	50	2			EXISTING LOAD	
EXISTING LOAD			20	1	25	0		26	-	-			-	
EXHAUST FANS	M	1584	20	1	27		1584	28						
					29	0		30						
					31		0	32						
					33	0		34						
					35		0	36						
					37	0		38						
MAIN BREAKER					100		0	40						
-					-	0		42						
	-					0	1584							
CONNECTED LOAD		1.6	KVA				6.6	Amps						
NEC DEMAND LOAD		1.6	KVA				6.6	Amps						

									MECH	HANICAL EQUI	PMENT S	CHEDULE											
DESCRIPTION				НР	WA	TTS					DISCONN	ECT	STARTER WIRING REQUIRE				WIRING REQUIREMENTS						
NAME	VOLT	PH	RATING	AMPS	RATING	AMPS	MCA	FLA	AMPS	MANUAL STARTER	SIZE	FUSE SIZE	FURN. BY	TYPE	SIZE	FURN. BY		WIRE	:S	GROUND	CONDUIT	BREAKER	NOTES
FURNACE	120	1	1	16.0						YES			DIV 26				2	#	10	1 # 10	3/4"	25	
FURNACE	120	1	1	16.0						YES			DIV 26				2	#	10	1 # 10	3/4"	25	
CONDENSING UNIT	208	1					35.0				60	45	Div 26				2	#	8	1 # 10	3/4"	50	
CONDENSING UNIT	208	1					35.0				60	45	Div 26				2	#	8	1 # 10	3/4"	50	
EXHAUST FAN	120	1	1/6	4.4						YES			DIV 26				2	#	12	1 # 12	3/4"	20	
EXHAUST FAN	120	1	1/6	4.4						YES			DIV 26				2	#	12	1 # 12	3/4"	20	
EXHAUST FAN	120	1	1/6	4.4						YES			DIV 26				2	#	12	1 # 12	3/4"	20	
WATER HEATER	208	1			3000.0	14.4					30	20	Div 26				2	#	12	1 # 12	3/4"	20	
CIRCULATION PUMP	120	1				1.0				YES			DIV 26				2	#	12	1 # 12	3/4"	20	
LIFT PUMP	120	1				1.0				YES			DIV 26				2	#	12	1 # 12	3/4"	20	

			LUMINAIRE SCHEDULE				
TYPE		DESCRIPTION	LAMP(S)/BALLAST(S)	INPUT (VA)	VOLTAGE	MANUFACTURER	CATALOG#
	DESCRIPTION:	1'X4' RECESSED FLAT PANEL	LED			COOPER	14FP2640C
	SIZE:	47-3/4" X 11-3/4" X 2"	3017 LUMENS			LITHONIA	CPX 1X4 ALO7 SWW7 M4
	HOUSING:	ALUMINUM BEZEL WITH STEEL BACK PLATE	4000 KELVIN			ILP	PAN14-30WLED-U-40
A2	FINISH:	WHITE BEZEL	80 CRI	25.5	UNV		
	LENS:	WHITE FROST LENS					
	ACCESSORIES:						
	MOUNTING:	RECESSED					
	DESCRIPTION:	1'X4' RECESSED FLAT PANEL	LED			COOPER	14FP2640C-EL14W
	SIZE:	47-3/4" X 11-3/4" X 2"	3017 LUMENS			LITHONIA	CPX 1X4 ALO7 SWW7 IE10WCP
	HOUSING:	ALUMINUM BEZEL WITH STEEL BACK PLATE	4000 KELVIN			ILP	PAN14-30WLED-U-40-EM12
A2E	FINISH:	WHITE BEZEL	80 CRI	25.5	UNV		
	DISTRIBUTION:	WHITE FROST LENS					
	OPTIONS:	14 WATT EM BATTERY PACK					
	MOUNTING:	RECESSED					
	DESCRIPTION:	RECESSED CAN LIGHT	LED			COOPER	HC6 20 REM14 HM6 0525 840 61 MD W
	SIZE:	26.4" X 8.6" X 6.7"	2000 LUMENS			LITHONIA	LDN6 40/20 LO6WR MVOLT GZ10
	HOUSING:	GALVANIZED STEEL PLASTER FRAME	4000 KELVIN			RAYON	RBC6-LL20-CT40-UNV-H-W-FN-C
C2	FINISH:	WHITE FLANGE	80 CRI	20.9	UNV		
	DISTRIBUTION:	MEDIUM 60 DEGREE BEAM ANGLE					
	ACCESSORIES:						
	MOUNTING:	RECESSED					
TES:							
1	ALL LIGHT FIXTURE	S SHALL HAVE A MINIMUM 5 YEAR WARRANTY.					
2	ALL LED LIGHT FIXT	JRES SHALL HAVE REPLACEABLE AND UPGRADABLE LED MODULES, LM79 AN	ND LM80 LISTED, WITH 50,000 HR MIN. L70 RATING.				
3	LIGHT FIXTURE DES	CRIPTION TAKES PRECEDENCE OVER CATALOG NUMBER. LIGHT FIXTURES S	HALL MEET DESCRIPTION REQUIREMENTS.				

					PANEL: M (EX)													
120 /	W	3	PH		225	Amps			Main l	ugs		K						
DESCRIPTION	TYPE	LOAD	BKR	Р	CKT	A	В	С	CKT	BKR	Р	TYPE	LOAD	DESCRIPTION				
PANEL I (EX)			100	2	1	528			2	20	1	М	528	CP-1				
-			-	-	3		0		4	20	1			LIGHTING CONTROL (EX)				
FURNACE F-1	М	1920	20	1	5			1920	6	20	1			COPY MACHINE (EX)				
FURNACE F-2	М	1920	20	1	7	1920			8	20	1			FILE SERVER (EX)				
RECEPTACLES (EX)			20	1	9		0		10	20	1			SPARE				
LIGHTING (EX)			20	2	11			0	12	20	1			SPARE				
•			-	-	13	0			14	20	2			LIGHITNG (EX)				
LIGHTING (EX)			20	2	15		0		16	-	-			-				
-			-	-	17			0	18	30	2			LIGHTING (EX)				
UNMARKED			30	2	19	0			20	-	-			-				
-			-	-	21		0		22	20	2			UNMARKED				
WH-1	М	1500	20	2	23			1500	24	-	-			-				
-	М	1500	-	-	25	1500			26									
CU-1	М	3640	50	2	27		3640		28									
-	М	3640	-	-	29			3640	30									
CU-2	М	3640	50	2	31	3640			32									
•	М	3640	-	-	33		3640		34									
					35			0	36									
					37	0			38									
					39		0		40									
					41			0	42									
						7588	7280	7060										
CONNECTED LOAD		21.9	KVA			60.9	Amps											
NEC DEMAND LOAD		21.9	KVA			60.9	Amps											

STUDIO 333 ARCHITECTS

333 24TH STREET OGDEN, UT 84401 801.394.3033

OCS - ANNEX BUILDING REMODEL 1950 MONROE BLVD , OGDEN, UT



