M001

ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE A HARD SUSPENDED CEILING.
 THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZED ARE NET INSIDE DIMENSIONS.

MECHANICAL GENERAL NOTES

ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. COORDINATE LOCATION OF PANELS WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
 TOTAL STATIC PRESSURE NOTES IN THE SCHEDULES INCLUDED DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS

FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING.

5. ALL DUCT AND PIPE ROUTING AND CONSTRUCTION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE AND MAY NOT BE SHOWN IN EXACT LOCATIONS OR WITH ALL ANCILLARY ITEMS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE ROUTING OF ALL DUCTWORK AND PIPING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY POSSIBLE WHILE ADHERING AS CLOSELY TO THE DRAWINGS AS POSSIBLE.

6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
 7. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL

SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE, AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.

DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN

LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND

INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.

9. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO

10. ALL EQUIPMENT WHICH IS INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS OR BY OWNER IS INCLUDED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. DESIGN OF MECHANICAL SYSTEMS IN THESE AREAS IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING INSTALLATION REQUIREMENTS OF THIS EQUIPMENT WITH THE APPLICABLE SUPPLIER OR THE OWNER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

11. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALL ATION.

12. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE CONVENIENTLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.

13. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD CLASS A.

14. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
 15. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR

16. LOCATE THERMOSTATS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.

17. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.

18. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.

19. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.

20. PROVIDE AND INSTALL SMOOTH TURN RADIUS ELBOWS IN ALL RECTANGULAR 90° ELBOWS AND TEES, UNLESS NOTED OTHERWISE.

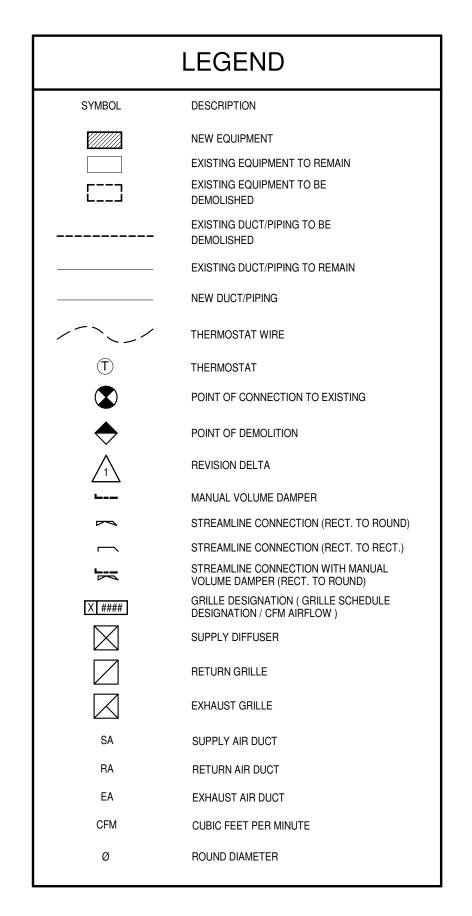
21. EXHAUST DUCTS SHALL TERMINATE IN ACCORDANCE WITH ASHRAE 170-2013 AND BE EQUIPPED WITH A BACKDRAFT DAMPER.
 22. CONTRACTOR SHALL PROVIDE ALL AUTOMATIC TEMPERATURE CONTROLS INCLUDING WIRING, THERMOSTATS AND ALL

MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS.

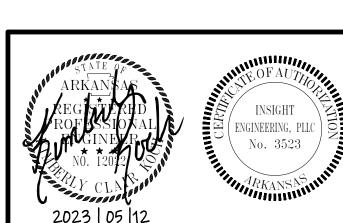
23. PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, DUCTWORK, OR OTHER EQUIPMENT SHALL BE PROPERLY

SEALED AFTER INSTALLATION OF ITEMS AND EQUIPMENT.

24. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH



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FIRST FLOOR PLAN AREA A -HVAC DUCTWORK DEMOLITION

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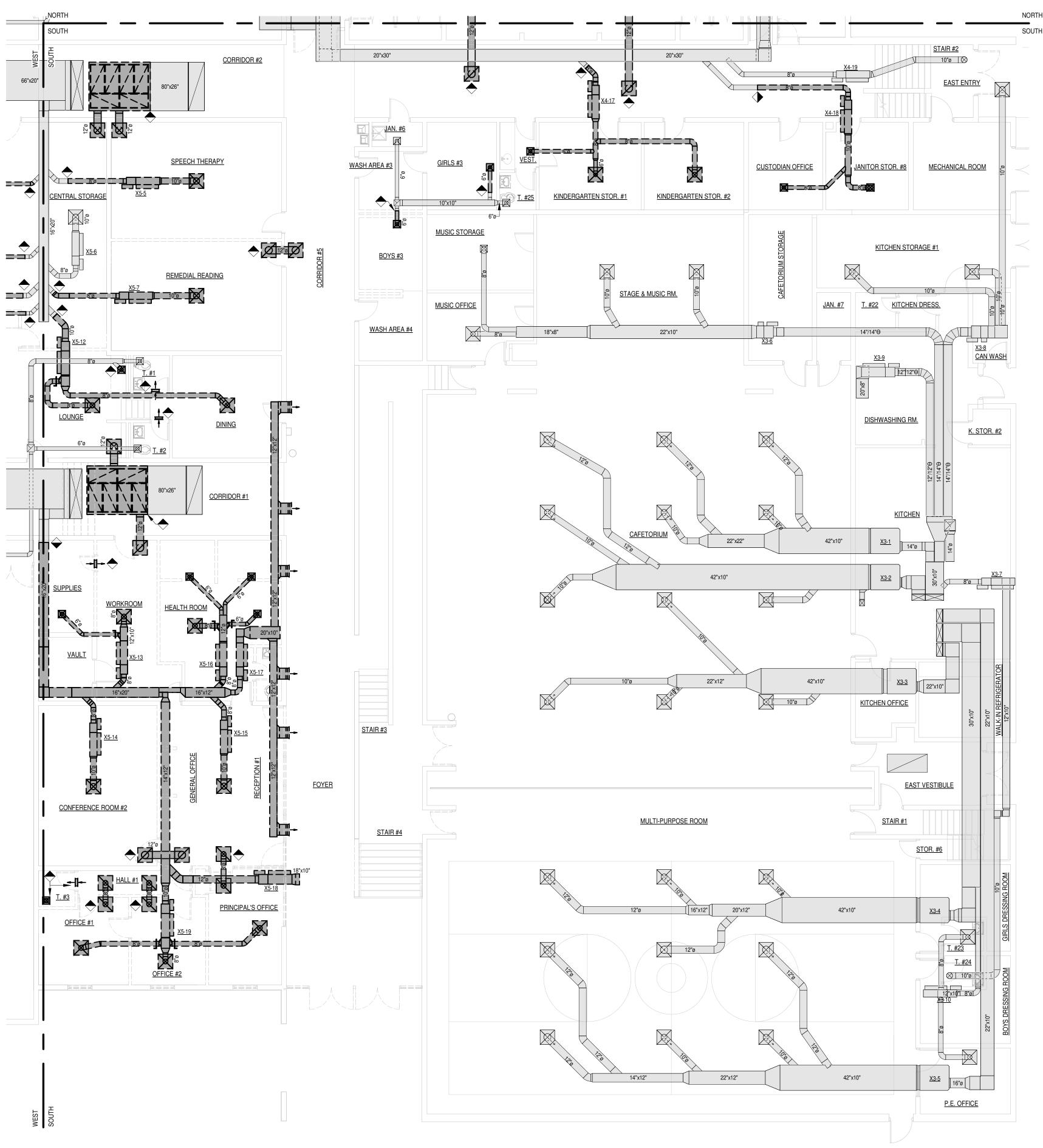
M101

ISSUE



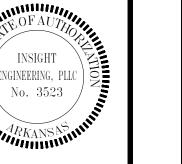
As-Builts CSUSA

5/22/24

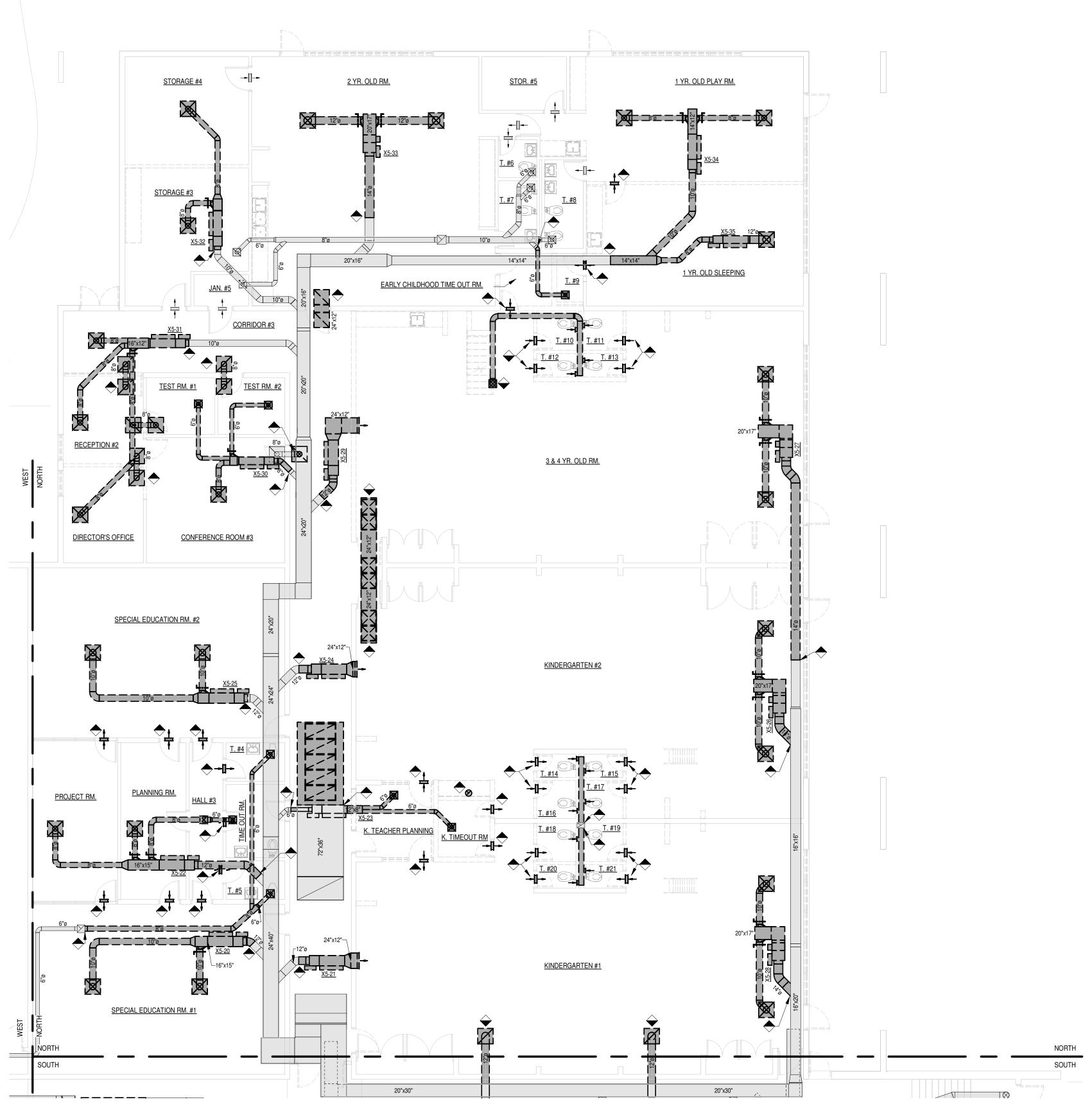


FIRST FLOOR PLAN AREA B - HVAC DUCTWORK DEMOLITION

ISSUE



As-Builts CSUSA



FIRST FLOOR PLAN AREA C - HVAC DUCTWORK DEMOLITION

GENERAL NOTES

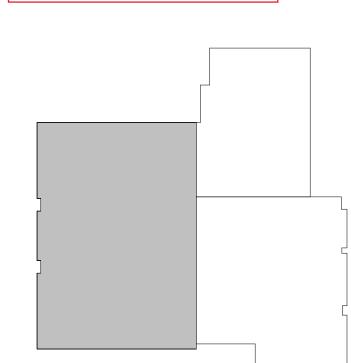
ALL CONDUIT SERVING THERMOSTATS LOCATED ON CMU BLOCK WALL SHALL BE ROUTED WITHIN BLOCK WALL. EXPOSED SURFACE MOUNTED CONDUIT AND DEVICES ON CMU BLOCK WALL IS NOT PERMITTED. COORDINATE WITH ARCHITECTURAL PLAN FOR ALL EXISTING TO REMAIN CMU BLOCK WALLS.

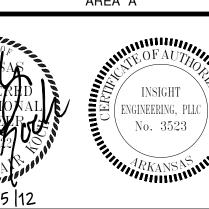
KEYED NOTES

(1) CAP, SEAL AND INSULATE EXISTING DUCTWORK.

2 12" X 12" EXHAUST DUCT UP TO EF-1. 3 RETURN AIR TRANSFER OPENING.

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M104

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GENERAL NOTES

ALL CONDUIT SERVING THERMOSTATS LOCATED ON CMU BLOCK WALL SHALL BE ROUTED WITHIN BLOCK WALL. EXPOSED SURFACE MOUNTED CONDUIT AND DEVICES ON CMU BLOCK WALL IS NOT PERMITTED. COORDINATE WITH ARCHITECTURAL PLAN FOR ALL EXISTING TO REMAIN CMU BLOCK WALLS.

KEYED NOTES

5 SIDEWALL GRILLE TO RETURN AIR ABOVE CEILING IN ADJACENT SPACE.

(1) CAP, SEAL AND INSULATE EXISTING DUCTWORK.

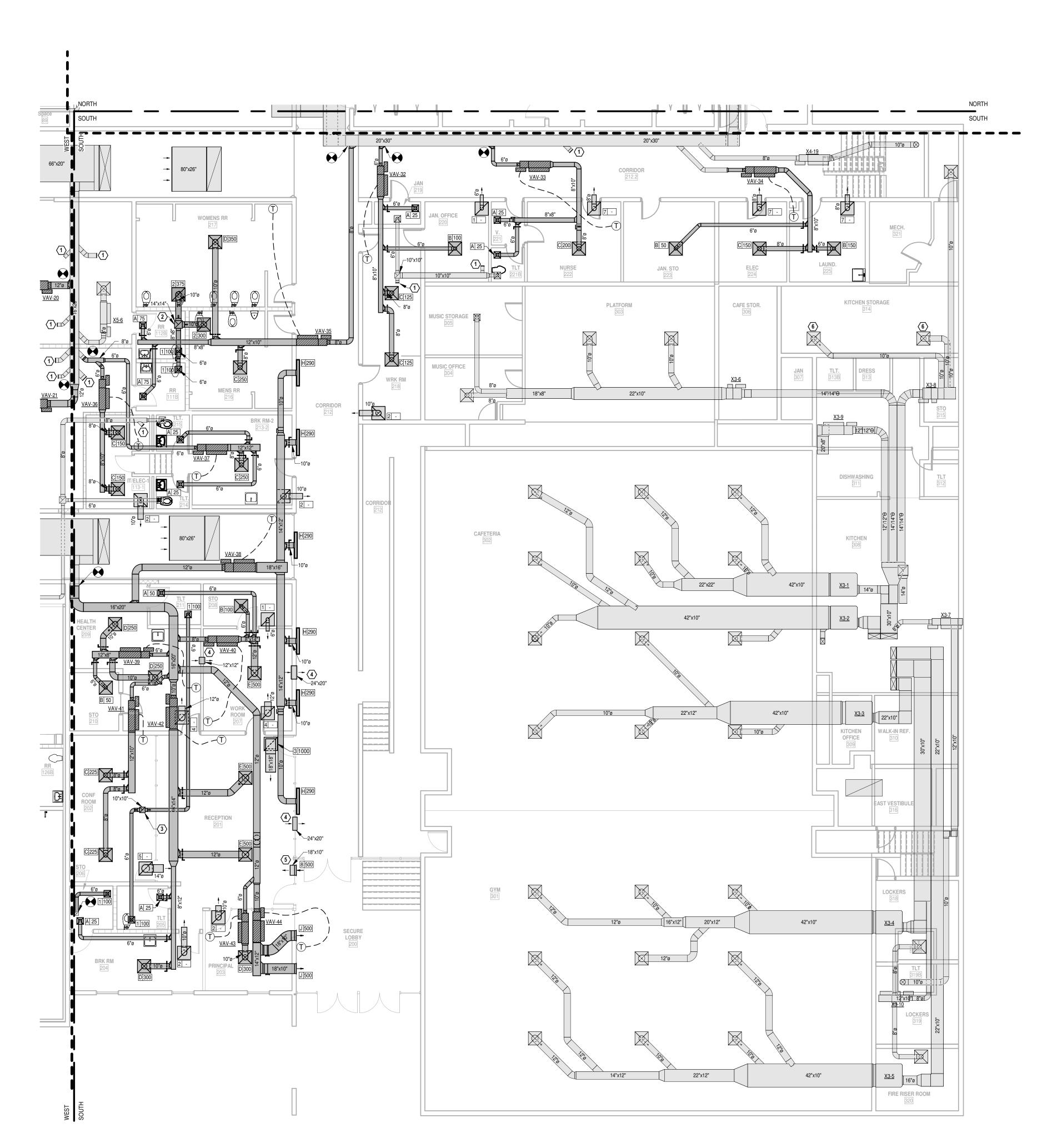
6 REMOVE AND REINSTALL GRILLE INTO CEILING GRID.

 $\langle \mathbf{2} \rangle$ 14" X 14" EXHAUST DUCT UP TO <u>EF-2</u>. 3 10" X 10" EXHAUST DUCT UP TO <u>EF-3</u>. 4 RETURN AIR TRANSFER OPENING.



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FIRST FLOOR PLAN AREA B - HVAC DUCTWORK

ISSUE

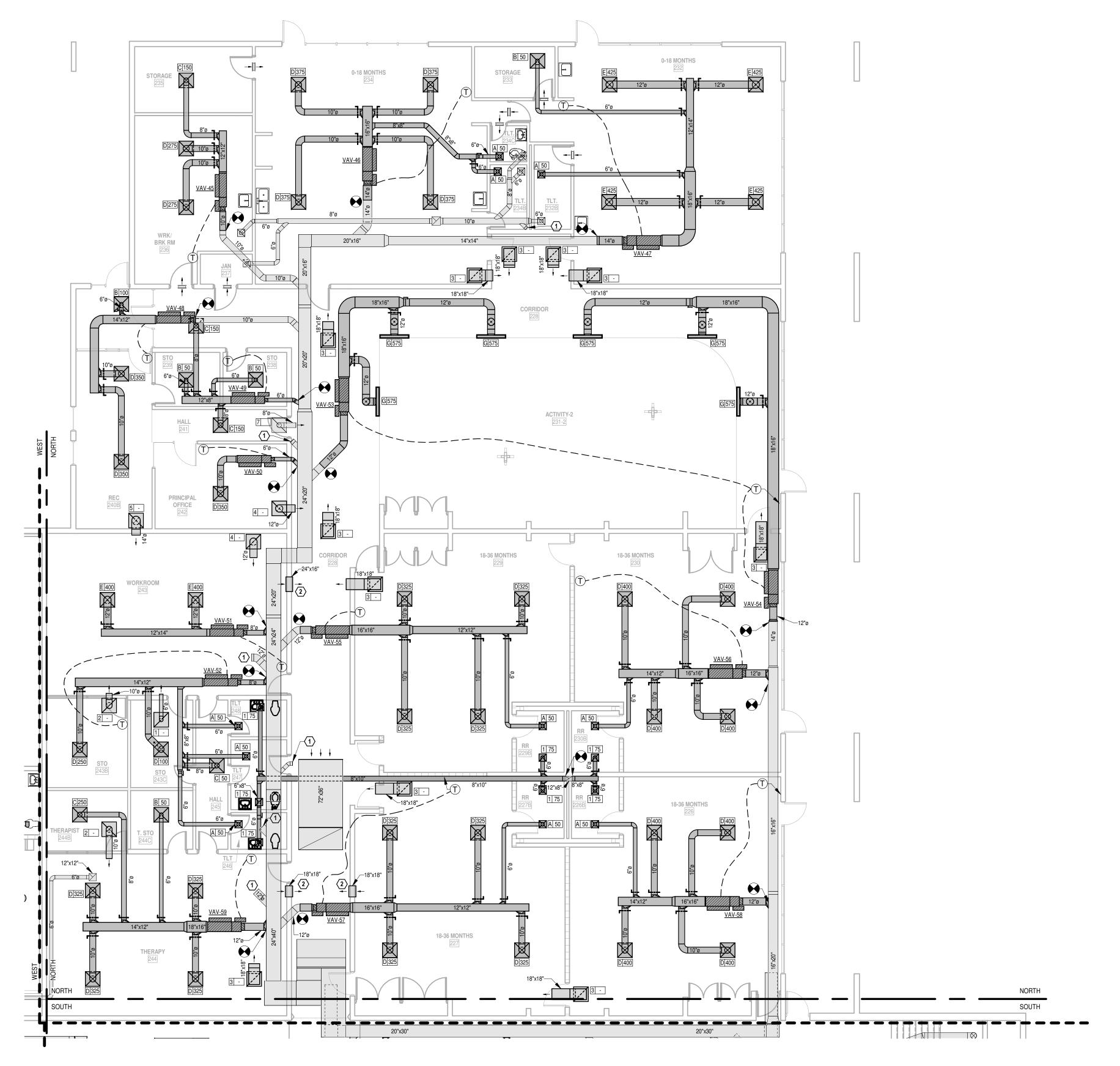
AUTHORIES
SHT
NG, PLLC
523

ALL CONDUIT SERVING THERMOSTATS LOCATED ON CMU BLOCK WALL SHALL BE ROUTED WITHIN BLOCK WALL. EXPOSED SURFACE MOUNTED CONDUIT AND DEVICES ON CMU BLOCK WALL IS NOT PERMITTED. COORDINATE WITH ARCHITECTURAL PLAN FOR ALL EXISTING TO REMAIN CMU BLOCK WALLS.

KEYED NOTES

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CAP, SEAL AND INSULATE EXISTING DUCTWORK.
 RETURN AIR TRANSFER OPENING.



FIRST FLOOR PLAN AREA C - HVAC DUCTWORK



ROCKEFELLER EARLY CHILDHOOD 700 EAST 17TH STREET LITTLE ROCK, AR 72206

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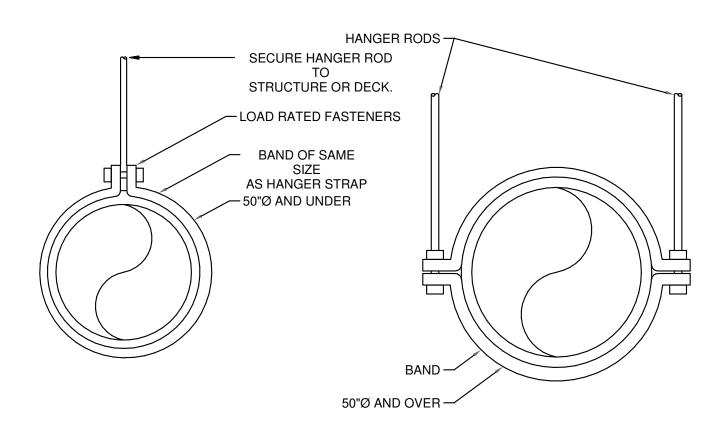
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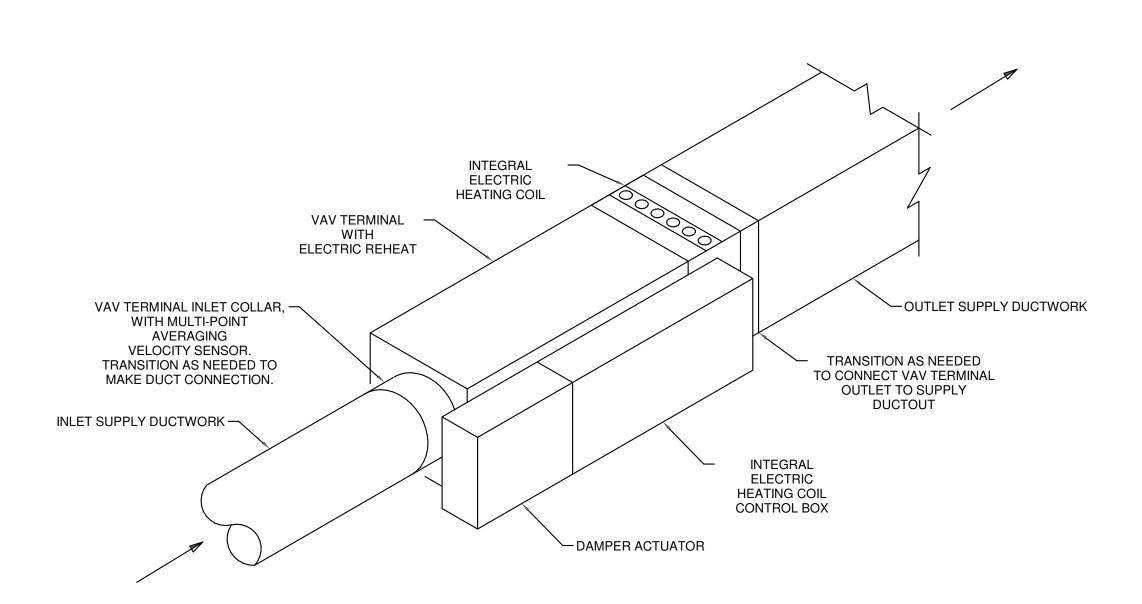
MECHANICAL

2023 | 05 | 12

M201

HANGER STRAPS OR RODS SCHEDULE MAX. DUCT Ø INCHES MAX. LOAD | MAX. SPACING QUANTITY / SIZE LBS. INCHES 26 IN ONE 1 X 22 GAUGE STRAP 260 144 ONE 1 X 18 GAUGE STRAP 420 144 50 IN ONE 1 X 16 GAUGE STRAP 700 144 60 IN TWO 3/8"Ø RODS 1320 144 84 IN TWO 1/2"Ø RODS 2500 144





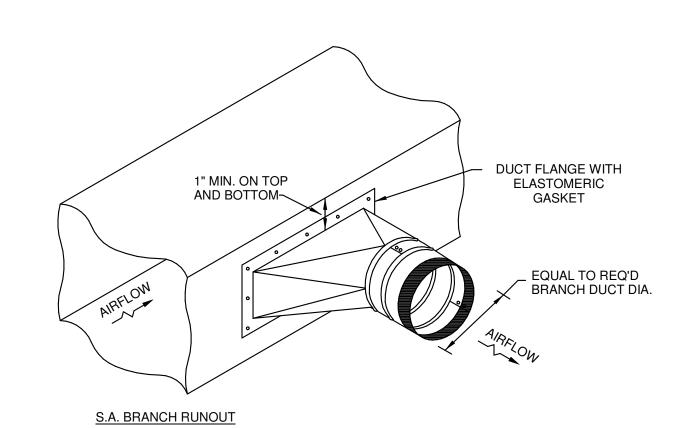
VARIABLE VOLUME BOX (WITH ELECTRIC HEAT) DETAIL
NOT TO SCALE:

INSTALL YOUNG REGULATOR 270-275 BOWDEN CABLE CONTROL CONCEALED REGULATOR ASSEMBLY.

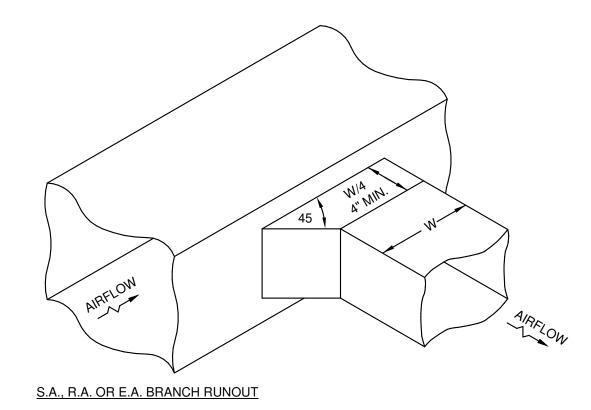
- 2. THE CABLE CONTROL SYSTEM SHALL BE MOUNTED CONCEALED, ABOVE LAY-IN CEILING ADJACENT TO GYP CEILING TO WHICH LINEAR SLOTS ARE MOUNTED. MOUNT WITHIN AN ACCESSIBLE LOCATION SECURING CONTROLLER KIT WITH ANGLED BRACKET TO STRUCTURE ABOVE. COORDINATE EXACT LOCATION WITH ARCHITECT AND OTHER DISCIPLINES PRIOR TO INSTALLATION. CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE.
- 3. ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
- 4. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
- 5. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.
- 6. VERIFY SHAFT SIZE ON DAMPER. PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

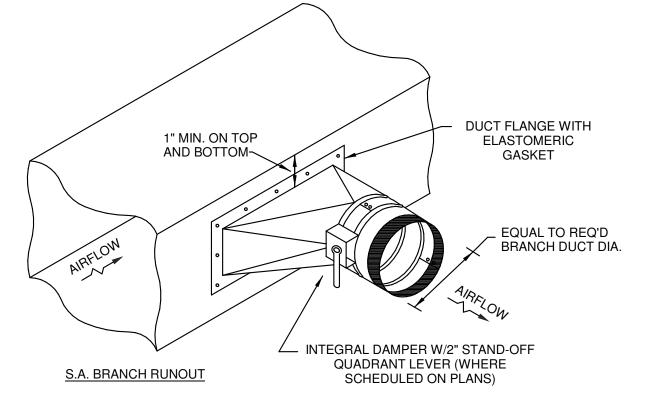
BRANCH TAKE-OFF TO LINEAR SLOT W/ BOWDEN 270-275 CABLE CONTROL SYSTEM DETAIL NOT TO SCALE:

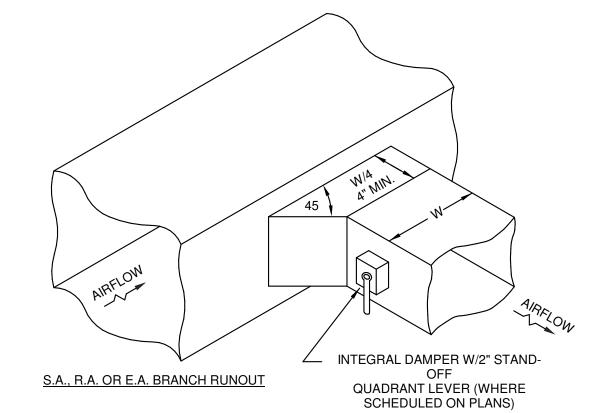
TYPICAL 1-1/2"x16 GAUGE DUCT STRAP HANGER SPACED 8' O.C., AT MIDSPAN OF FLEX DUCT, AND AT ALL



ROUND DUCT HANGER DETAIL







FLEXIBLE CASING —

AND WIRE (50'-0"

MAXIMUM)

RACK & PINION

OPERATOR

— MAIN DUCT RUN

— CONICAL SPIN-IN FITTING

/— ROUND RIGID DUCT

LOCKING GEAR

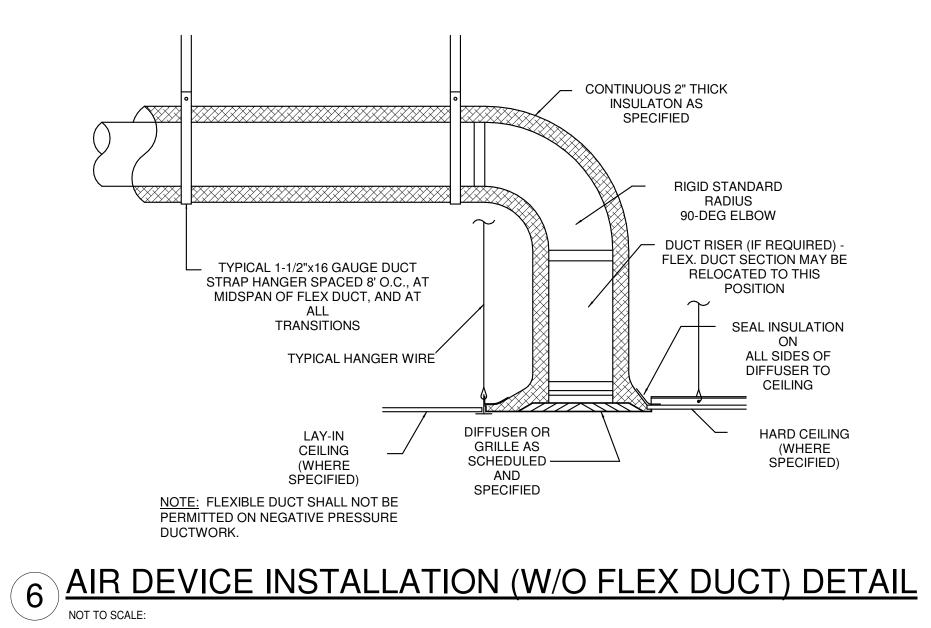
CONTROLLER KIT

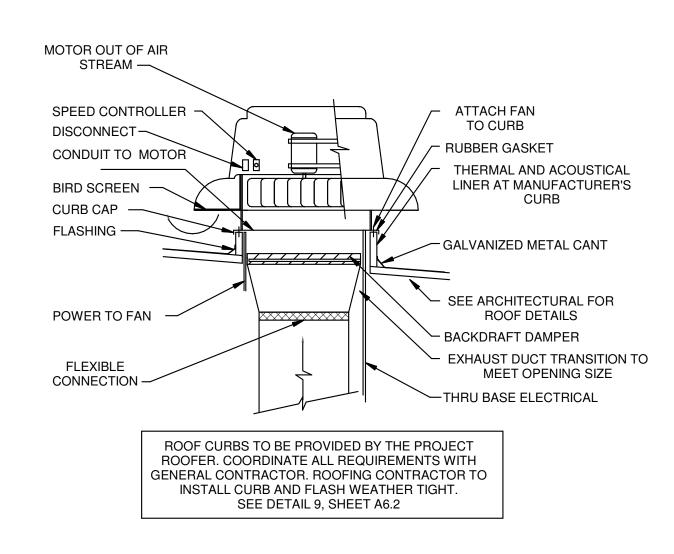
SOCKET WRENCH

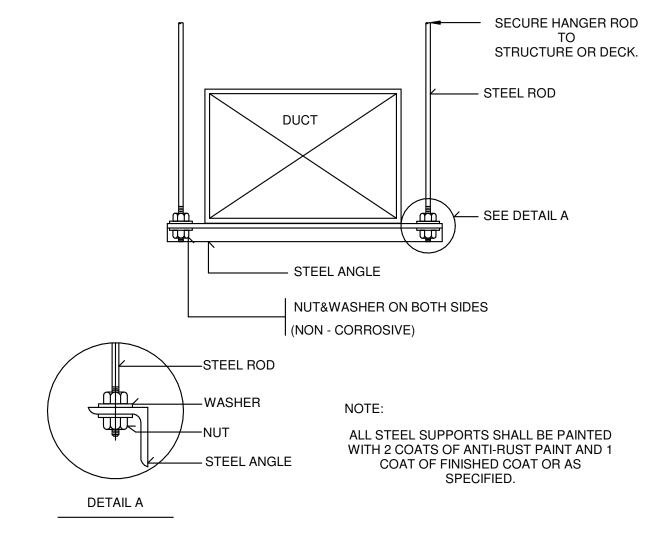
— BALANCING DAMPER

BRANCH DUCT TAKE-OFF DETAIL WITHOUT MANUAL BALANCING DAMPER

BRANCH DUCT TAKE-OFF DETAIL WITH MANUAL BALANCING DAMPER



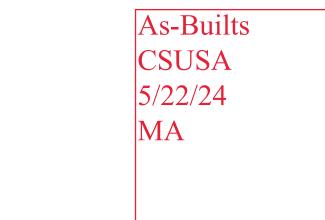






7 DIRECT DRIVE EXHAUST FAN DETAIL





-RIGID STANDARD RADIUS

-RIGID DUCT RISER

-SEAL INSULATION ON ALL SIDES OF DIFFUSER

-HARD CEILING

(WHERE

SPECIFIED)

TO CEILING

-RIGID DUCT

AS SCHEDULED AND

9 RETURN AIR BOOT DETAIL (NO FLEX DUCT)

TYPICAL HANGER WIRE-

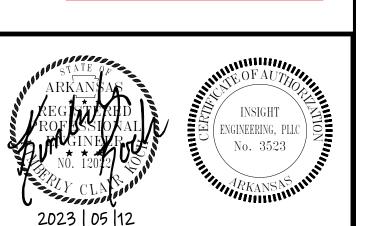
LAY-IN CEILING

NOTE: FLEXIBLE DUCT SHALL NOT BE

PERMITTED ON NEGATIVE PRESSURE

DUCTWORK OR RETURN AIR TRANSFER

(WHERE SPECIFIED)—





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		TYPE	AIR FLOW RATE	TOTAL STATIC	ROTATION	DRIVE	SONES	MOTOR	ELEC1	RICAL	REMARKS		
			(CFM)	PRESSURE (IN. WATER)	(RPM)			HP	VOLTS	PHASE			
EF-1	GREENHECK: G-095-D	DOWNBLAST	600	0.5	1,550	DIRECT	9.3	1/8	115	1	PROVIDE MANUFACTURER'S ROOF CURB AND ELECTRICAL DISCONNE		
EF-2	GREENHECK: G-120-B	DOWNBLAST	875	0.5	1,140	DIRECT	7.9	1/6	115	1	PROVIDE MANUFACTURER'S ROOF CURB AND ELECTRICAL DISCONNE		
EF-3	GREENHECK: G-080-D	DOWNBLAST	200	0.5	1,150	DIRECT	7.7	1/20	115	1	PROVIDE MANUFACTURER'S ROOF CURB AND ELECTRICAL DISCONNE		
AIR D	EVICES												

AIR D	EVICES						_	_	
DESIGNATION	REFERENCE PRODUCT	CONFIGURATION	MAXIMUM AIRFLOW (CFM)	TOTAL PRESSURE (IN. WATER)	NECK SIZE (IN.)	PANEL SIZE (IN.)	MAX. N.C.	FINISH	REMARKS
А	TITUS: OMNI AA	LAY-IN PLAQUE	100	0.109	6	12 x 12	30	WHITE	PROVIDE WITH INSULATION BLANKET.
В	TITUS: OMNI AA	LAY-IN PLAQUE	100	0.025	6	24 x 24	30	WHITE	PROVIDE WITH INSULATION BLANKET.
С	TITUS: OMNI AA	LAY-IN PLAQUE	300	0.091	8	24 x 24	30	WHITE	PROVIDE WITH INSULATION BLANKET.
D	TITUS: OMNI AA	LAY-IN PLAQUE	400	0.107	10	24 x 24	30	WHITE	PROVIDE WITH INSULATION BLANKET.
Е	TITUS: OMNI AA	LAY-IN PLAQUE	600	0.151	12	24 x 24	30	WHITE	PROVIDE WITH INSULATION BLANKET.
F	TITUS: OMNI AA	LAY-IN PLAQUE	900	0.256	14	24 x 24	30	WHITE	PROVIDE WITH INSULATION BLANKET.
G	TITUS: FL-20	LINEAR SLOT	575	0.164	12	24 x 4	34	WHITE	PROVIDE CONTINUOUS PLENUM, TYPE 22 BORDER, HIGH THROW AIR PATTERN, 2" SLOT WIDTH.
Н	TITUS: FL-20	LINEAR SLOT	290	0.112	10	24 x 4	30	WHITE	PROVIDE CONTINUOUS PLENUM, TYPE 22 BORDER, HIGH THROW AIR PATTERN, 2" SLOT WIDTH.
J	TITUS: 301	LINEAR SIDEWALL	500	0.016	18 x 10	20 x 12	30	WHITE	
К	TITUS: 301	LINEAR SIDEWALL	500	0.04	12 x 10	14 x 12	30	WHITE	
1	TITUS: 50F	LAY-IN EGGCRATE	150	0.04	6 x 6 or 6"	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. PROVIDE FILTER. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS.
2	TITUS: 50F	LAY-IN EGGCRATE	375	0.04	10 x 10 or 10"	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. PROVIDE FILTER. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS.
3	TITUS: 50F	LAY-IN EGGCRATE	1800	0.062	18 x 18 or 18"	24 x 24	34	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. PROVIDE FILTER. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS.
4	TITUS: 50F	LAY-IN EGGCRATE	500	0.022	12 x 12 or 12"	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS
5	TITUS: 50F	LAY-IN EGGCRATE	750	0.022	14 x 14 or 14"	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS
6	TITUS: 50F	LAY-IN EGGCRATE	2200	0.022	22 x 22	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS
7	TITUS: 50F	LAY-IN EGGCRATE	225	0.095	8 x 8 or 8"	24 x 24	30	WHITE	1/2" x 1/2" x 1/2" ALUMINUM CORE. USE SRG ADAPTER WHERE ROUND NECK SIZE IS INDICATED ON PLANS
8	TITUS: 350RL	LINEAR SIDEWALL	1000	0.022	18 x 10	20 x 12	30	WHITE	

VAV-1 TF VAV-2 TF VAV-3 TF VAV-4 TF VAV-4 TF VAV-5 TF VAV-6 TF VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-21 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-28 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-41 TF VAV-42 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	134 - P3 CLASS 135 - P3 CLASS 136 - P3 CLASS 137 - P3 CLASS 138 - P3 CLASS 139 - P3 CLASS 139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE CENTRAL - 2 134 - P3 MAKER SPACE CENTRAL - 2 135 - P3 MAKER SPACE CENTRAL - 2 107 - WESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 1 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE CENTRAL - 2	PRIMARY INLET 12" 12" 12" 12" 12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10"	DESIGN COOLING (CFM) 1700.0 1800.0 1700.0 1700.0 1800.0 1700.0 1400.0 1600.0 1400.0 575.0 1200.0 1200.0 1150.0 1150.0 1150.0 1150.0 11600.0 1400.0	MINIMUM COOLING (CFM) 510.0 540.0 510.0 540.0 510.0 420.0 480.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	VALVE HEATING (CFM) 850 900 850 900 850 700 800 700 350 288 600 600 325 575 575 575 800	COIL HEATING CAPACITY (MBH) 34 38 34 38 34 27 31 31 27 14 12 24 24 24 24 24 24 24 24	VOLTS / PHASE 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3	10 11 10 11 10 11 10 11 10 8 9 9 8 4 4 7 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-2 TF VAV-3 TF VAV-4 TF VAV-5 TF VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-37 TF VAV-38	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF110 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	135 - P3 CLASS 136 - P3 CLASS 137 - P3 CLASS 138 - P3 CLASS 139 - P3 CLASS 139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE CENTRAL - 2 134 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 131 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 12" 12" 12" 12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10" 10" 10" 11" 12" 12" 12" 12"	1800.0 1700.0 1700.0 1800.0 1700.0 1400.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 150.0 1150.0 1150.0 1150.0 1600.0	540.0 510.0 510.0 540.0 510.0 420.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 480.0	900 850 850 900 850 700 800 700 350 288 600 600 325 575 575 575	38 34 34 38 34 27 31 31 27 14 12 24 24 24 24 24 22 22 22 22 22	480 / 3 480 / 3	11 10 10 11 10 8 9 9 8 4 4 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-3 TF VAV-4 TF VAV-5 TF VAV-6 TF VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-20 TF VAV-20 TF VAV-21 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-30 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-44 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF110 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	136 - P3 CLASS 137 - P3 CLASS 138 - P3 CLASS 139 - P3 CLASS 139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE CENTRAL - 2 134 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 131 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 12" 12" 12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10" 10" 10" 10" 11" 12" 12" 12"	1700.0 1700.0 1800.0 1700.0 1400.0 1600.0 1600.0 1400.0 575.0 1200.0 150.0 1150.0 1150.0 1150.0 1600.0	510.0 510.0 540.0 510.0 420.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	850 850 900 850 700 800 700 350 288 600 600 325 575 575 575	34 34 38 34 27 31 31 27 14 12 24 24 24 24 22 22 22 22	480 / 3 480 / 3	10 10 11 10 8 9 9 8 4 4 7 7 7 4 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-4 TF VAV-5 TF VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-30	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF110 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	137 - P3 CLASS 138 - P3 CLASS 139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE CENTRAL - 2 134 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 12" 12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10" 10" 10" 11" 11" 12" 12" 12"	1700.0 1800.0 1700.0 1400.0 1600.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 1150.0 1150.0 1150.0 11600.0	510.0 540.0 510.0 420.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	850 900 850 700 800 700 350 288 600 600 325 575 575 575	34 38 34 27 31 31 27 14 12 24 24 24 24 22 22 22 22	480 / 3 480 / 3	10 11 10 8 9 9 8 4 4 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-5 TF VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-29 TF VAV-29 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-44 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF110 TRANE: VCEF12	138 - P3 CLASS 139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1	12" 12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10" 10" 10" 112" 12" 12"	1800.0 1700.0 1400.0 1600.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 1150.0 1150.0 1150.0 11600.0	540.0 510.0 420.0 480.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	900 850 700 800 800 700 350 288 600 600 325 575 575 575	38 34 27 31 31 27 14 12 24 24 24 24 22 22 22 22	480 / 3 480 / 3	11 10 8 9 9 8 4 4 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-6 TF VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	139 - P3 CLASS 133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1	12" 10" 12" 10" 8" 8" 10" 10" 10" 10" 10" 10" 10" 10" 12" 12" 12"	1700.0 1400.0 1600.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 1150.0 1150.0 1150.0 11600.0	510.0 420.0 480.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	850 700 800 800 700 350 288 600 600 325 575 575 575	34 27 31 31 27 14 12 24 24 24 24 22 22 22 22	480 / 3 480 / 3	10 8 9 9 8 4 4 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-7 TF VAV-8 TF VAV-9 TF VAV-10 TF VAV-11 TF VAV-12 TF VAV-12 TF VAV-13 TF VAV-14 TF VAV-15 TF VAV-16 TF VAV-16 TF VAV-17 TF VAV-19 TF VAV-20 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-30 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-44 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	133 - P3 MAKER SPACE WEST 133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1	10" 12" 12" 10" 8" 10" 10" 10" 10" 10" 10" 10" 10" 12" 12" 12"	1400.0 1600.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 150.0 1150.0 1150.0 1150.0 1600.0	420.0 480.0 480.0 420.0 210.0 173.0 360.0 195.0 345.0 345.0 345.0 480.0	700 800 800 700 350 288 600 600 325 575 575	27 31 31 27 14 12 24 24 24 24 22 22 22 22	480 / 3 480 / 3	8 9 9 8 4 4 7 7 7 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-8 VAV-9 TE VAV-10 TE VAV-10 TE VAV-11 TE VAV-12 TE VAV-12 TE VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-41 TE VAV-41 TE VAV-41 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE VAV-45	TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	133 - P3 MAKER SPACE CENTRAL - 1 133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1	12" 12" 10" 8" 10" 10" 10" 10" 10" 10" 10" 12" 12" 12"	1600.0 1600.0 1400.0 700.0 575.0 1200.0 1200.0 150.0 1150.0 1150.0 1600.0	480.0 480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	800 800 700 350 288 600 600 325 575 575 575	31 27 14 12 24 24 24 14 22 22 22 22 22	480 / 3 480 / 3	9 9 8 4 4 7 7 7 4 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-9 VAV-10 TE VAV-10 TE VAV-11 TE VAV-12 TE VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-41 TE VAV-41 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE VAV-45	TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	133 - P3 MAKER SPACE CENTRAL - 2 133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 10" 8" 10" 10" 10" 10" 10" 10" 10" 12" 12" 12"	1600.0 1400.0 700.0 575.0 1200.0 1200.0 650.0 1150.0 1150.0 1150.0 1600.0	480.0 420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	800 700 350 288 600 600 325 575 575 575	31 27 14 12 24 24 14 22 22 22 22	480 / 3 480 / 3	9 8 4 4 7 7 4 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-10 VAV-11 TE VAV-12 TE VAV-12 TE VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-30 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-41 TE VAV-41 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	133 - P3 MAKER SPACE EAST 101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 8" 10" 10" 10" 10" 10" 10" 10" 12" 12" 12"	1400.0 700.0 575.0 1200.0 1200.0 650.0 1150.0 1150.0 1150.0 1600.0	420.0 210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	700 350 288 600 600 325 575 575 575	27 14 12 24 24 14 22 22 22 22 22	480 / 3 480 / 3	8 4 4 7 7 4 7	2.0 2.0 2.0 2.0 2.0 2.0 2.0
VAV-12 TE VAV-12 TE VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-41 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF12	101 - VESTIBULE 104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	8" 10" 10" 10" 10" 10" 10" 12" 12	700.0 575.0 1200.0 1200.0 650.0 1150.0 1150.0 1150.0 1600.0	210.0 173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	350 288 600 600 325 575 575 575	14 12 24 24 14 22 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3	4 4 7 7 4 7	2.0 2.0 2.0 2.0 2.0 2.0
VAV-12 TE VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF12	104 - FAM RR, 105 - FAM RR, 106 - WOMEN, 107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	8" 10" 10" 8" 10" 10" 10" 10" 12" 12" 12"	575.0 1200.0 1200.0 650.0 1150.0 1150.0 1150.0 1600.0	173.0 360.0 360.0 195.0 345.0 345.0 345.0 480.0	288 600 600 325 575 575 575	12 24 24 14 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3 480 / 3 480 / 3	4 7 7 4 7	2.0 2.0 2.0 2.0 2.0
VAV-13 TE VAV-14 TE VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF08 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	107 - MEN, 108 - JANITOR 109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 10" 8" 10" 10" 10" 10" 12" 12" 12"	1200.0 1200.0 650.0 1150.0 1150.0 1150.0 1600.0	360.0 360.0 195.0 345.0 345.0 345.0 480.0	600 600 325 575 575 575	24 24 14 22 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3 480 / 3	7 7 4 7	2.0 2.0 2.0 2.0 2.0
VAV-14 VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE VAV-45	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	109 - COMMUNITY - 1 109 - COMMUNITY - 2 100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 8" 10" 10" 10" 10" 12" 12" 12"	1200.0 650.0 1150.0 1150.0 1150.0 1150.0 1600.0	360.0 195.0 345.0 345.0 345.0 345.0 480.0	575 575 575 575	24 14 22 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3	7 4 7	2.0 2.0 2.0
VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-26 TE VAV-27 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	8" 10" 10" 10" 10" 12" 12" 12"	1200.0 650.0 1150.0 1150.0 1150.0 1150.0 1600.0	195.0 345.0 345.0 345.0 345.0 480.0	325 575 575 575 575	14 22 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3	7	2.0 2.0 2.0
VAV-15 TE VAV-16 TE VAV-16 TE VAV-17 TE VAV-18 TE VAV-19 TE VAV-20 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-26 TE VAV-27 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-39 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	100 - VESTIBULE 110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	8" 10" 10" 10" 10" 12" 12" 12"	650.0 1150.0 1150.0 1150.0 1150.0 1600.0	195.0 345.0 345.0 345.0 345.0 480.0	325 575 575 575 575	14 22 22 22 22 22	480 / 3 480 / 3 480 / 3 480 / 3	7	2.0
VAV-16 VAV-17 VAV-18 VAV-19 VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	110 - EXPLORATION SPACE - 1 110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 10" 10" 10" 12" 12" 12"	1150.0 1150.0 1150.0 1150.0 1600.0	345.0 345.0 345.0 345.0 480.0	575 575 575 575	22 22 22 22	480 / 3 480 / 3 480 / 3	7	2.0
VAV-17 TF VAV-18 TF VAV-19 TF VAV-20 TF VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-39 TF VAV-39 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-43 TF	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12	110 - EXPLORATION SPACE - 2 110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 10" 10" 12" 12" 10"	1150.0 1150.0 1150.0 1600.0	345.0 345.0 345.0 480.0	575 575 575	22 22 22	480 / 3 480 / 3	7	2.0
VAV-18 VAV-19 TE VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-31 TE VAV-32 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-37 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	110 - EXPLORATION SPACE - 3 110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 10" 12" 12" 10"	1150.0 1150.0 1600.0 1600.0	345.0 345.0 480.0	575 575	22 22	480 / 3		
VAV-20 TE VAV-21 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	110 - EXPLORATION SPACE - 4 112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 12" 12" 10" 12"	1150.0 1600.0 1600.0	345.0 480.0	575	22			
VAV-20 TE VAV-21 TE VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF12	112 - P3 CLASS 111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 12" 10" 12"	1600.0 1600.0	480.0				7	
VAV-21 TF VAV-22 TF VAV-23 TF VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-28 TF VAV-29 TF VAV-30 TF VAV-31 TF VAV-31 TF VAV-32 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10	111 - P4 CLASS 133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12" 10" 12"	1600.0		800	-24			2.
VAV-22 TE VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-34 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF10 TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10	133 - P3 MAKER SPACE WEST 116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	10" 12"		400.0		31	480 / 3	9	2.
VAV-23 TE VAV-24 TE VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-31 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-39 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-43 TE VAV-44 TE VAV-45 TE	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10	116 - P3 MAKER SPACE CENTRAL - 1 116 - P3 MAKER SPACE CENTRAL - 2	12"	1400.0	480.0	800	31	480 / 3	9	2.
VAV-24 TF VAV-25 TF VAV-26 TF VAV-27 TF VAV-27 TF VAV-28 TF VAV-30 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12 TRANE: VCEF10	116 - P3 MAKER SPACE CENTRAL - 2			420.0	700	27	480 / 3	8	2.
VAV-25 TE VAV-26 TE VAV-27 TE VAV-28 TE VAV-29 TE VAV-30 TE VAV-31 TE VAV-32 TE VAV-32 TE VAV-33 TE VAV-34 TE VAV-35 TE VAV-36 TE VAV-36 TE VAV-37 TE VAV-37 TE VAV-38 TE VAV-40 TE VAV-40 TE VAV-41 TE VAV-42 TE VAV-42 TE VAV-43 TE	TRANE: VCEF10		12"	1600.0	480.0	800	31	480 / 3	9	2.
VAV-26 TF VAV-27 TF VAV-28 TF VAV-29 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-38 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF		133 - P3 MAKER SPACE WEST		1600.0	480.0	800	31	480 / 3	9	2.
VAV-27 TF VAV-28 TF VAV-29 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-43 TF	TRANE: VCEF12		10"	1400.0	420.0	700	27	480 / 3	8	2.
VAV-28 VAV-29 TF VAV-30 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-39 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-43 TF VAV-45 TF		121 - P4 CLASS	12"	1700.0	510.0	850	34	480 / 3	10	2.
VAV-29 VAV-30 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-36 TF VAV-36 TF VAV-37 TF VAV-37 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-43 TF VAV-43 TF VAV-45 TF	TRANE: VCEF12	122 - P4 CLASS	12"	1800.0	540.0	900	38	480 / 3	11	2.
VAV-30 TF VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-42 TF VAV-43 TF VAV-44 TF	TRANE: VCEF12	123 - P4 CLASS	12"	1700.0	510.0	850	34	480 / 3	10	2.
VAV-31 TF VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12	124 - P4 CLASS	12"	1800.0	540.0	900	38	480 / 3	11	2.
VAV-32 TF VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12	125 - P4 CLASS	12"	1700.0	510.0	850	34	480 / 3	10	2.
VAV-33 TF VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-40 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12	126 - P4 CLASS	12"	1700.0	510.0	850	34	480 / 3	10	2.
VAV-34 TF VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF06	218 - WRK RM, 219 - JAN, 220 JAN. OFFICE	6"	375.0	113.0	118	9	480 / 3	3	2.
VAV-35 TF VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF05	221 - V, 221B - TLT, 222 - NURSE	5"	250.0	75.0	125	5	480 / 3	2	2.
VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF05	223 - JAN. STO., 224 - ELEC., 225 - LAUNDARY	5"	350.0	105.0	175	7	480 / 3	2	2.
VAV-36 TF VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF08	111B - RR, 112B - RR, 214 - TLT, 215 - TLT, 216	8"	750.0	225.0	375	15	480 / 3	5	2.
VAV-37 TF VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF05	- MENS RR, 217-WOMENS RR 113-1 - IT/ELEC - 1	5"	300.0	90.0	175	7	480 / 3	2	2.
VAV-38 TF VAV-39 TF VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF05	213-2 BREAKROOM - 2	5"	300.0	90.0	175	7	480 / 3	2	2.
VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF12	191 - CORRIDOR	12"	1740.0	522.0	870	34	480 / 3	10	2.
VAV-40 TF VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF06		6"		150.0	250	10		3	2.
VAV-41 TF VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF		209 - HEALTH CENTER 207 - WORKROOM, 208 - STORAGE.		500.0				480 / 3		-
VAV-42 TF VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF06	210-STORAGE, 211- TLT	8"	700.0	210.0	350	14	480 / 3	4	2.
VAV-43 TF VAV-44 TF VAV-45 TF	TRANE: VCEF06	202 - CONFERENCE ROOM	6"	500.0	150.0	250	10	480 / 3	3	2.
VAV-44 TF VAV-45 TF	TRANE: VCEF10	201 - RECEPTION, 204 - BREAKROOM, 205 - TLT, 206 - STORAGE	10"	1350.0	405.0	675	27	480 / 3	8	2.
VAV-45 TF	TRANE: VCEF05	203 - PRINCIPAL	5"	300.0	90.0	175	7	480 / 3	2	2.
	TRANE: VCEF10	200 - SECURE LOBBY	10"	1000.0	300.0	500	20	480 / 3	6	2.
VAV-46 TF	TRANE: VCEF06	235 - STORAGE, 236 - WORK/BREAK ROOM	8"	700.0	210.0	350	14	480 / 3	4	2.
	TRANE: VCEF12	234C-TLT, 234B-TLT, 234-0.18	12"	1600.0	480.0	800	31	480 / 3	9	2.
VAV-47 TF	TRANE: VCEF12	232 - 0.18, 232B - TLT, 233- STORAGE	12"	1800.0	540.0	900	38	480 / 3	11	2
VAV-48 TF	TRANE: VCEF08	240 - REC	8"	800.0	240.0	400	31	480 / 3	5	2.
VAV-49 TF	TRANE: VCEF05	231 - ACTIVITY ENTRY CORRIDOR,	5"	350.0	105.0	175	7	480 / 3	2	2.
		239 - STORAGE, 238 - STORAGE, 241 - HALL								
	TRANE: VCEF05	242 - PRINCIPAL OFFICE	5"	350.0	105.0	175	7	480 / 3	2	2.
VAV-51 TF	TRANE: VCEF08	243 - OVERFLOW	8"	800.0	240.0	400	31	480 / 3	5	2.
VAV-52 TF		243B - STORAGE, 243C - STORAGE, 246-TLT, 247- TLT, 248-TLT	8"	550.0	165.0	275	12	480 / 3	4	2.
VAV-53 TF	TRANE: VCEF08	231-ACTIVITY - 1	12"	1725.0	518.0	863	34	480 / 3	10	2.
VAV-54 TF	TRANE: VCEF08	231-ACTIVITY - 2	12"	1725.0	518.0	863	34	480 / 3	10	2.
VAV-55 TF		229- 2 YEAR OLDS	10"	1350.0	405.0	675	27	480 / 3	8	2
VAV-56 TF	TRANE: VCEF12	230- 2 YEAR OLDS	12"	1650.0	495.0	825	31	480 / 3	9	2
	TRANE: VCEF12		10"	1400.0	420.0	700	27	480 / 3	8	2.
	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10 TRANE: VCEF12	227- 2 YEAR OLDS	12"	1650.0		825	31	480 / 3	9	2
VAV-58 IF	TRANE: VCEF12 TRANE: VCEF12 TRANE: VCEF10	227- 2 YEAR OLDS 226- 2 YEAR OLDS	12	1650.0	495.0 480.0	825	31	480 / 3	9	2.

PROVIDE FACTORY-MOUNTED AND PRE-PROGRAMMED, PRESSURE-INDEPENDENT, BACNET DDC CONTROLLER WITH AIRFLOW MEASUREMENT.

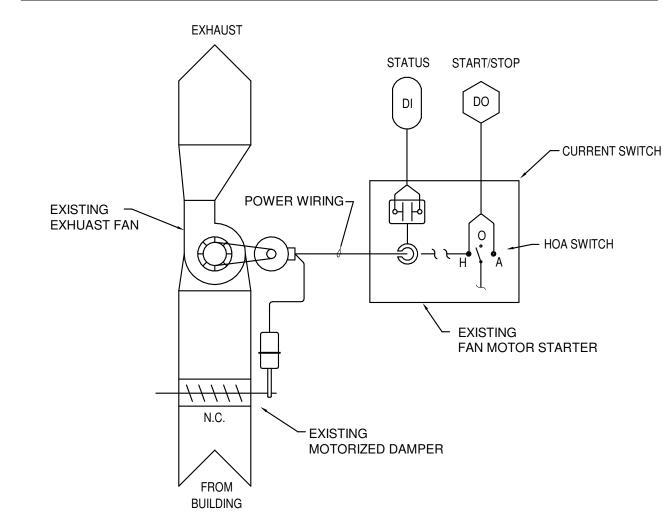
PROVIDE WITH ZONE TEMPERATURE SENSOR. PROVIDE WITH FACTORY-WIRED DISCHARGE AIR TEMPERATURE SENSOR.

PROVIDE UNIT-MOUNTED CONTROL POWER TRANSFORMER AND DISCONNECT.
UNITS TO BE TRANE MODEL, SIZE AND CONFGURATION AS INDICATED IN SCHEDULE AND ON DRAWINGS.

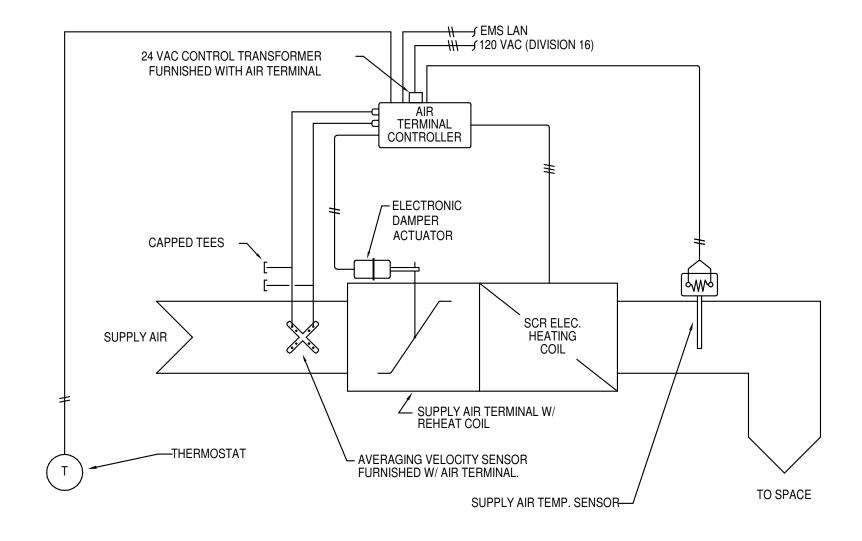
SEQUENCE OF OPERATIONS

GENERAL EXHAUST FAN SEQUENCE OF OPERATION:

EXHAUST FAN SHALL BE STARTED AND STOPPED BY HOA SWITCH AT FAN MOTOR STARTER. WHEN SWITCH IS IN THE AUTO POSITION FAN SHALL BE STARTED AND STOPPED BY BUILDING DDC PANEL THROUGH DIGITAL OUTPUT BASED UPON WEEKLY SCHEDULE OR OPERATOR COMMAND.



1 GENERAL EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE:



BUILDING AUTOMATION SYSTEM INTERFACE: THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED, AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING ITS LOCAL

OCCUPIED:

NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE

UNOCCUPIED: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A HARDWIRED OR COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE FULLY CLOSED.

MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (ADJ.). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL OPERATE IN OCCUPIED MODE.

COOLING MODE: WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY. WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS SHALL BE CONTROLLED BASED ON THE UNIT CONFIGURATION

HEATING MODE:

WHEN THE UNIT IS IN HEATING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE HEATING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. THE VAV CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

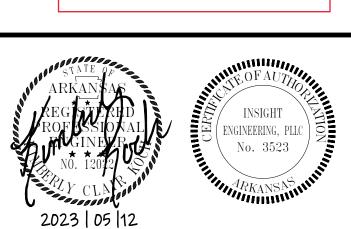
AND THE REQUESTED COOLING CAPACITY.

IF THE SPACE TEMPERATURE IS AT THE HEATING SETPOINT, THE ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT WHILE THE VAV OPERATES AT ITS MINIMUM HEATING AIRFLOW SETPOINT. IF THE DISCHARGE AIR TEMPERATURE REACHES THE DESIGN HEATING DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.), THE VAV SHALL MODULATE AIRFLOW BETWEEN THE MINIMUM HEATING AIRFLOW SETPOINT AND THE MAXIMUM HEATING AIRFLOW SETPOINT AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT, WHILE THE ELECTRIC HEATER MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE AT THE DESIGN HEATING DISCHARGE AIR TEMPERATURE SETPOINT. IF THE AIRFLOW REACHES THE MAXIMUM HEATING AIRFLOW SETPOINT, THE VAV SHALL MODULATE THE ELECTRIC HEATER AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT, WHILE THE VAV OPERATES AT ITS MAXIMUM HEATING AIRFLOW SETPOINT

SPACE SENSOR FAILURE: IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE.

AIR TERMINAL ELECTRIC REHEAT CONTROL DIAGRAM NOT TO SCALE:

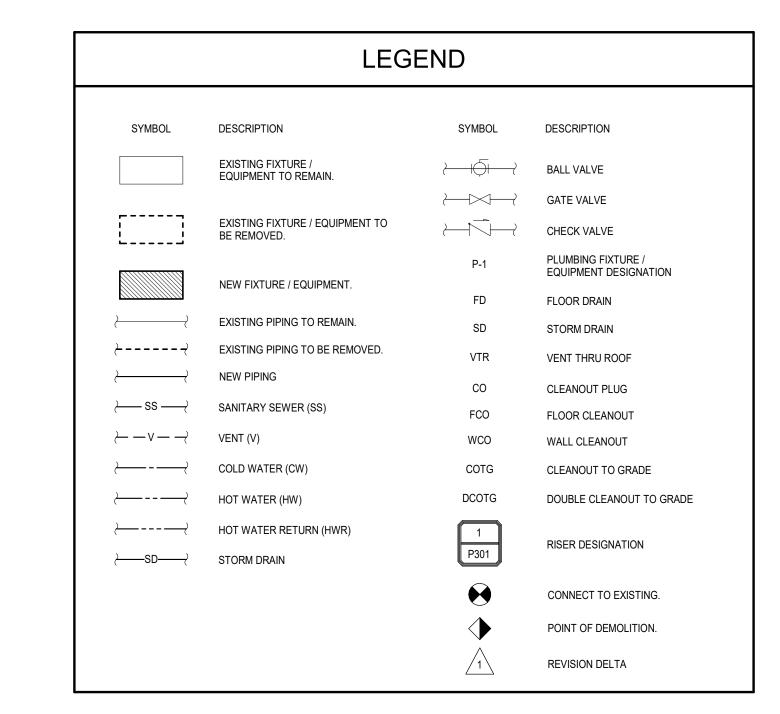
As-Builts



PLUME	SING FIXTUR	RE SCHEDULE							
DESIGNATION	FIVELIBETVDE	BASIS	OF DESIGN	PIPE	CONI	NECTION	I SIZE	TRAP	DESCRIPTION
DESIGNATION	FIXTURE TYPE	MANUFACTURER AND MODEL	ACCESSORIES	COLD	нот	WASTE	VENT	IKAP	DESCRIPTION
<u>WC-1</u>	WATER CLOSET	· ·	AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER SEAT, ZURN Z8802-XL-Q-PC QUARTER TURN STOP	1"	-	4"	2"	INTEGRAL	FLOOR MOUNTED ADA WATER CLOSET, VITREOUS CHINA, INTEGRAL STOPS AND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD FLUSH VALVE: 1.6 GPF, RUBBER DIAPHRAGM WITH DUAL FILTERED FIXED BYPASS; CHLORAMINE RESISTANT HANDLE PACKING, MAIN SEAT, STOP SEAT, AND VACUUM BREAKER; MANUAL FLUSH VALVE; OPEN FRONT SEAT
<u>WC-2</u>	WATER CLOSET	AMERICAN STANDARD #2234.001, AMERICAN STANDARD 6047.121.002 FLUSH VALVE	AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER SEAT, ZURN Z8802-XL-Q-PC QUARTER TURN STOP	1"	-	4"	2"	INTEGRAL	FLOOR MOUNTED WATER CLOSET, VITREOUS CHINA, INTEGRAL STOPS AND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD FLUSH VALVE: 1.6 GPF, RUBBER DIAPHRAGM WITH DUAL FILTERED FIXED BYPASS; CHLORAMINE RESISTANT HANDLE PACKING, MAIN SEAT, STOP SEAT, AND VACUUM BREAKER; MANUAL FLUSH VALVE; OPEN FRONT SEAT
WC-3	WATER CLOSET	AMERICAN STANDARD #2282.001, AMERICAN STANDARD 6047.121.002 FLUSH VALVE	CHURCH 1580C OPEN OPEN FRONT LESS COVER SEAT, ZURN Z8802-XL-Q-PC QUARTER TURN STOP	1"	-	4"	2"	INTEGRAL	FLOOR MOUNTED ADA WATER CLOSET, VITREOUS CHINA, INTEGRAL STOPS AND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD FLUSH VALVE: 1.6 GPF, RUBBER DIAPHRAGM WITH DUAL FILTERED FIXED BYPASS; CHLORAMINE RESISTANT HANDLE PACKING, MAIN SEAT, STOP SEAT, AND VACUUM BREAKER; MANUAL FLUSH VALVE; OPEN FRONT SEAT
LAV-1	LAVATORY ADA	AMERICAN STANDARD "DECORUM" #9024.001EC, KOHLER K-46029-4 FAUCET	ZURN Z78700-PC TRAP, ZURN Z8743-PC SOLID STRAINER, ZURN Z8804-XL-LR-PC STOPS, WADE CARRIER #530 SERIES ,	1/2"	1/2"	2"	2"	1-1/4"	LAVATORY - ADA COMPLIANT, 20"x18-1/4"x34"H, WALL HUNG, WHITE VITREOUS CHINA, BACK OVERFLOW, FAUCET - 0.5 GPM, SINGLE HANDLE, HIGH TEMPERATURE LIMIT SETTING, DUAL WATER SUPPLY, FLEXIBLE STAINLESS STEEL BRAIDED SUPPLY HOSES INCLUDED, LEAD FREE, POLISHED CHROME FINISH
LAV-2	LAVATORY ADA	AMERICAN STANDARD "OVALYN" #0495.221, KOHLER K-46029-4 FAUCET	ZURN Z78700-PC TRAP, ZURN Z8743-PC SOLID STRAINER, ZURN Z8804-XL-LR-PC STOPS, WADE CARRIER #530 SERIES ,	1/2"	1/2"	2"	2"	ı	LAVATORY - ADA COMPLIANT, 15-1/16"x12-1/16"x5-1/2"H, UNDERMOUNT, WHITE VITREOUS CHINA, FRONT OVERFLOW, FAUCET -0.5 GPM, SINGLE HANDLE, HIGH TEMPERATURE LIMIT SETTING, DUAL WATER SUPPLY, FLEXIBLE STAINLESS STEEL BRAIDED SUPPLY HOSES INCLUDED, LEAD FREE, POLISHED CHROME FINISH
UR-1	URINAL	AMERICAN STANDARD #6042.001EC "DECORIUM", AMERICAN STANDARD 6045.013.002 FLUSH VALVE	WADE CARRIER #402 SERIES	3/4"	-	2"	2"	I	URINAL, 14" X 13-5/16" X 21-1/2" HIGH, WALL MOUNTED, VITREOUS CHINA, 3/4" TOP SPUD, WASHOUT ACTION, INTEGRAL TRAP, MANUAL FLUSH VALVE - 0.125 GPF, SELF CLEANING BRASS PISTON-TYPE, INTEGRAL WIPER SPRING, CHLORAMINE RESISTANT EPDM SEAL, AND VACUUM BREAKER
<u>S-1</u>	SINGLE COMPARTMENT SINK	,	DEARBORN BRASS P9704 TRAP, BRASSCRAFT G2CR19 SUPPLY STOP, BRASSCRAFT 649 5/8" ESCUTCHEON	1/2"	1/2"	2"	2"	1-1/2"	SINK - 36-1/2"x18-1/2"x9"D, UNDERMOUNT SINGLE BOWL, 18 GAUGE, TYPE 304 STAINLESS STEEL, POLISHED SATIN FINISH, BOTTM GRID, BASKET STRAINER. FAUCET (2) - 1.0 GPM, CHROME PLATED LEAD FREE, 5-1/4" RIGID GOOSENECK SPOUT, DECK MTD, 1/4 TURN VANDAL RESISTANT LEVER HANDLES, DUAL HOT/COLD SUPPLY, SINGLE HOLE INSTALLATION
<u>S-2</u>	SINGLE COMPARTMENT SINK	ELKAY LUSTERTON LRAD312255, KOHLER TRITON BOWE K-400T70-4AKA FAUCET	ZURN P-TRAP, ZURN Z8804-XL-LR-PC STOPS, ZURN BASKET STRAINER.	1/2"	1/2"	2"	2"	1-1/2"	SINK - ADA COMPLIANT, 1 COMPARTMENT (31"x22"x5-1/2"D), COUNTER-TOP, SELF RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER DRAIN OUTLET, TWO FAUCET HOLES ON 4" CENTERS, FAUCET - 1.0 GPM, CHROME PLATED LEAD FREE, 5-3/16 GOOSENECK SPOUT, DECK MTD, 1/4 TURN VANDAL RESISTANT LEVER HANDLES, DUAL HOT/COLD SUPPLY, 4" CENTERS
<u>S-3</u>	SINGLE COMPARTMENT SINK	ELKAY LUSTERTON LRAD1918, KOHLER TRITON BOWE K- 400T70-4AKA FAUCET	MCGUIRE 151 BASKET STRAINER, DEARBORN BRASS P9704 TRAP, BRASSCRAFT G2CR19 SUPPLY STOP, BRASSCRAFT 649 5/8" ESCUTCHEON	1/2"	1/2"	3"	3"	ı	SINK -19"x18"x6-1/2"D, DROP IN SINGLE BOWL, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIMMING, TWO HOLE, FAUCET - 1.0 GPM, CHROME PLATED LEAD FREE, 5-3/16 GOOSENECK SPOUT, DECK MTD, 1/4 TURN VANDAL RESISTANT LEVER HANDLES, DUAL HOT/COLD SUPPLY, 4" CENTERS
<u>s-4</u>	DOUBLE COMPARTMENT SINK	ELKAY ELUHAD311855, KOHLER FAUCET KOHLER TRITON BOWE K-400T70-4AKA FAUCET	MCGUIRE 151 BASKET STRAINER, DEARBORN BRASS P9704 TRAP, BRASSCRAFT G2CR19 SUPPLY STOP, BRASSCRAFT 649 5/8" ESCUTCHEON	1/2"	1/2"	3"	3"	1-1/2"	SINK - 30.75"x18.5"x5.375"D, UNDERMOUNT DOUBLE BOWL, 18 GAUGE, TYPE 304 STAINLESS STEEL, FAUCET -1.0 GPM, CHROME PLATED LEAD FREE, 5-3/16 GOOSENECK SPOUT, DECK MTD, 1/4 TURN VANDAL RESISTANT LEVER HANDLES, DUAL HOT/COLD SUPPLY, 4" CENTERS
<u>SS-1</u>	LAUNDRY SINK	MUSTEE #19CF	-	1/2"	1/2"	2"	2"	1-1/2"	LAUNDRY SINK - FREE STANDING LAUNDRY TUB SINK, ONE PIECE MOLDED THERMOPLASTIC, INTEGRALLY MOLDED DRAIN ASSEMBLY, STOPPER, HEAVY GAUGE FINISHED STEEL LEGS, WHITE FINISH, FAUCET - 6" SWING SPOUT, TWO 20" FLEXIBLE SUPPLY LINES
<u>WB-1</u>	WASHING MACHINE BOX	GUY GRAY #MWB-16		1/2"	1/2"	2"	2"	2"	WASHER BOX - 10-7/8"x8-3/8"x2-1/2", FIRE RATED WHITE POWDER COATED 20 GAUGE STEEL WALL BOX, BOTTOM SUPPLY VALVES, LEAD FREE BRASS, QUARTER TURN, SWEAT INLET CONNECTIONS, INTEGRAL HAMMER ARESSTORS, 2" BOTTOM WASTE OUTLET
<u>SB-1</u>	ICEMAKER BOX	GUY GRAY BIM875	-	1/2"	-	-	-	-	11.62" X 9-1/2"X 3-1/2" 18 GAUGE STEEL ICEMAKER BOX WITH VALVE
<u>HB-1</u>	HOSE BIBB	ZURN Z-1350 NARROW WALL HYDRANT	-	1/2"	-	-	-	-	ENCASED WALL HYDRANT, BRONZE BODY AND INTERNAL PARTS, SCREWDRIVER OPERATED STOP VALVE, KEY OPERATED CONTROL VALVE

PLUME	SING SPECIA	LITIES SCHEDULE					
DESIGNATION	FIXTURE	DESCRIPTION	SIZE	PIPE CONNECTION SIZE			
				COLD WATER	HOT WATER	TRAP	
TMV-1	MIXING VALVE	LEONARD VALVE - TM-2020B-LF-DT; 'MIXING VALVE - 65 GPM @ 10 PSI DROP, THEMOSTATIC MIXING VALVE, HI-LO STYLE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.	SAME AS PIPE SIZE	-	-	-	
<u>FCO</u>	FLOOR CLEANOUT	ZURN ZN-1400-BP-VP "LEVEL-TROL", CAST IRON, GASKETED HUB OUTLET, THREADED ADJUSTABLE HOUSING, BRONZE PLUG, NICKEL BRONZE SCORIATED TOP, VANDAL-PROOF SCREWS.	AS NOTED	-	-	-	
<u>wco</u>	WALL CLEANOUT	ZURN Z-1441-BP-VP, CAST IRON NO-HUB CLEANOUT FERRULE, BRONZE PLUG, STAINLESS STEEL ROUND ACCESS COVER PLATE, VANDAL-PROOF SCREW.	AS NOTED	-	-	-	
<u>FD-1</u>	FLOOR DRAIN	ZURN ZN-415S-P, 6"x6" SQUARE POLISHED NICKEL BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION.	AS NOTED	-	-	-	
<u>FS-1</u>	FLOOR SINK	ZURN ZN-1901-2-32 WITH CAST IRON BODY AND NICKEL BRONZE FRAME AND 1/2" GRATE	AS NOTED	-			
<u>ET-1</u>	EXPANSION TANK	AMTROL THERM-X-TROL MODEL NO. ST-30VC-DD, 16.5 GALLON IN-LINE DIAPHRAGM EXPANSION TANK. MAXIMUM WORKING PRESSURE 150 PSIG	AS NOTED	3/4"	-	-	
	WATER HAMMER ARRESTORS	WADE 4480 WATER HAMMER ARRESTOR, SIZED IN ACCORDANCE WITH PDI-WH201 AND ASSE-1010. BELLOWS AND CASING SHALL BE CONSTRUCTED OF STAINLESS STEEL, MAXIMUM WORKING PRESSURE OF 250 PSIG.	AS NOTED	-	-	-	

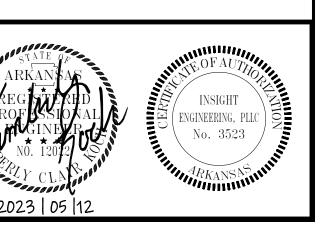
PLUMBING EQUIPMENT SCHEDULE									
DESIGNATION	EQUIPMENT	BASIS OF DESIGN	PIPING CONNECTIONS	ELECTRIC (VOLT / PH / HZ)	POWER	REMARKS			
WH-1, WH-2, WH-3, WH-4, WH-5, WH-6, WH-7 & WH-8	NATURAL GAS TANKLESS CONDENSING WATER HEATER	NAVIEN NPE-240S	3/4" CW, 3/4" HW, 1/2" HWR, DRAIN, 3/4" GAS	HARDWIRED 120V / 1 / 60	200 W, 2 A	NATURAL GAS WATER HEATER - 199 MBH INPUT, 4.3 GPM @ 80°F RISE, 17.3"x13.2"x27.4"H, TANKLESS, FORCED COMBUSTION, 96 UEF, 19,900-199,900 BTUH, FORCED DRAFT DIRECT VENT, PVC, CPVC, PP VENTING, STAINLESS STEEL PRIMARY AND SECONDARY HEAT EXCHANGERS, <0.01 MIN ACTIVATION FLOW, INTERNAL CIRCULATION PUMP WITH 0.5 GALLON BUFFER TANK, 15-150 PSI, WARRANTIES - 8 YEAR HEAT EXCHANGERS, 5 YEAR PARTS, PROVIDE ACCESSORIES INCLUDING PLUMB EASY VALVE SET, CONDENSATE NEUTRALIZER, READY LINK COMMUNICATION CABLE(S) AS REQUIRED, COMMON VENT AND AIR INTAKE, PROVIDE WITH NEUTRALIZER, OUTLET TEMPERATURE SET TO 140°F, ROUTE CONDENSATE TO FS-1			
CP-1 & CP-2	CIRCULATION PUMP	TACO 009	3/4" HWR	HARDWIRED 120V / 1 / 60	1/8 HP, 1.4 A	HOT WATER CIRCULATOR PUMP - 4 GPM @ 27' HD, 7"x4-1/8"x6-3/8", CAST IRON CASING, ALUMINUM STATOR HOUSING, STAINLESS STEEL CARTRIDGE, NON-METALLIC IMPELLER, CERAMIC SHAFT, CARBON BEARINGS, EPDM O-RINGS/GASKETS, SELF LUBRICATING, DIRECT DRIVE, REPLACEABLE CARTRIDGE DESIGN, NO MECHANICAL SEAL			



PLUMBING GENERAL NOTES

- ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE A HARD SUSPENDED CEILING.
- 2. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, CLEANOUTS, CONTROLS, ETC. COORDINATE LOCATION OF PANELS WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
- 3. ALL PIPE ROUTING AND CONSTRUCTION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE AND MAY NOT BE SHOWN IN EXACT LOCATIONS OR WITH ALL ANCILLARY ITEMS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY POSSIBLE WHILE ADHERING AS CLOSELY TO THE DRAWINGS AS POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- 4. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE, AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.
- 5. DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.
- 6. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION MORE STRINGENT THAT CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
- 8. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- 9. ALL DOMESTIC WATER PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS AND BE PROPERLY IDENTIFIED.
- 10. STERILIZE THE ENTIRE WATER DISTRIBUTION SYSTEM PER THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING
- 11. DOMESTIC WATER SYSTEM, WASTE, SOIL AND VENT SYSTEM SHALL ALL BE TESTED PER LOCAL AUTHORITY HAVING JURISDICTION. TEST AND OBTAIN APPROVAL ON ALL UNDERGROUND PIPING FROM ADMINISTRATIVE AUTHORITY HAVING JURISDICTION PRIOR TO COVERING WORK.
- 12. PLUMBING CONTRACTOR SHALL PROVIDE INITIAL START UP OF ALL SYSTEMS INCLUDED IN THE PLUMBING WORK.
- 13. ALL EXPOSED PIPING BELOW LAVATORY'S DESIGNATED AS HANDICAPPED SHALL BE TOTALLY INSULATED.
- 14. ALL NON-DRAINAGE PIPING SHALL BE RUN LEVEL AND GENERALLY FREE OF TRAPS AND UNNECESSARY BENDS, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCES FOR OTHER MECHANICAL WORK. PROVIDE VALVED DRAINAGE OUTLETS IN AREAS OF PIPING WHICH WOULD BE UNDRAINABLE DURING MAINTENANCE OR
- 15. ALL EQUIPMENT, PIPING, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- 16. PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF ITEMS AND EQUIPMENT.
- 17. PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT TO ALLOW DISASSEMBLY FOR MAINTENANCE. ARRANGE PIPING TO ALLOW PULL SPACE FOR EQUIPMENT REMOVAL.
- 18. PROVIDE ESCUTCHEONS FOR EXPOSED PIPING PENETRATIONS INTO FINISHED ROOMS.
- 19. PIPING, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

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> UMBING GENERAL NOTE: GEND AND SCHEDULES

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DEMOLITION GENERAL NOTES

THE DEMOLITION AND RELOCATION OF ANY EXISTING STORM DRAIN RISER FROM ABOVE CEILING TO BELOW FLOOR SHALL BE COORDINATED, TO PREVENT STORM WATER FROM ENTERING BUILDING.

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DEMOLITION KEYED NOTES

(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.

DEMOLISH EXISTING FIXTURE AND REWORK EXISTING ROUGH-IN FOR NEW FIXTURE.

CAP EXISTING SANITARY PIPING BELOW FLOOR, ABOVE CEILING OR IN WALL AS REQUIRED.

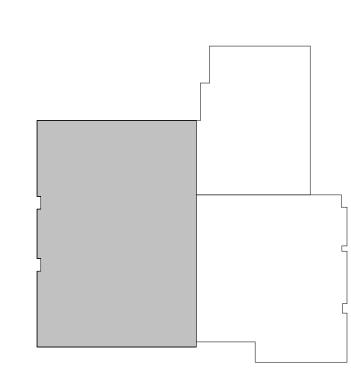
4 DEMOLISH EXISTING STORM DRAIN RISER IN WALL.

(5) CAP EXISTING STORM DRAIN BELOW FLOOR.

(6) EXISTING 4" SD UP TO ROOF DRAIN.

7 EXISTING FIXTURE TO REMAIN.

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(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.

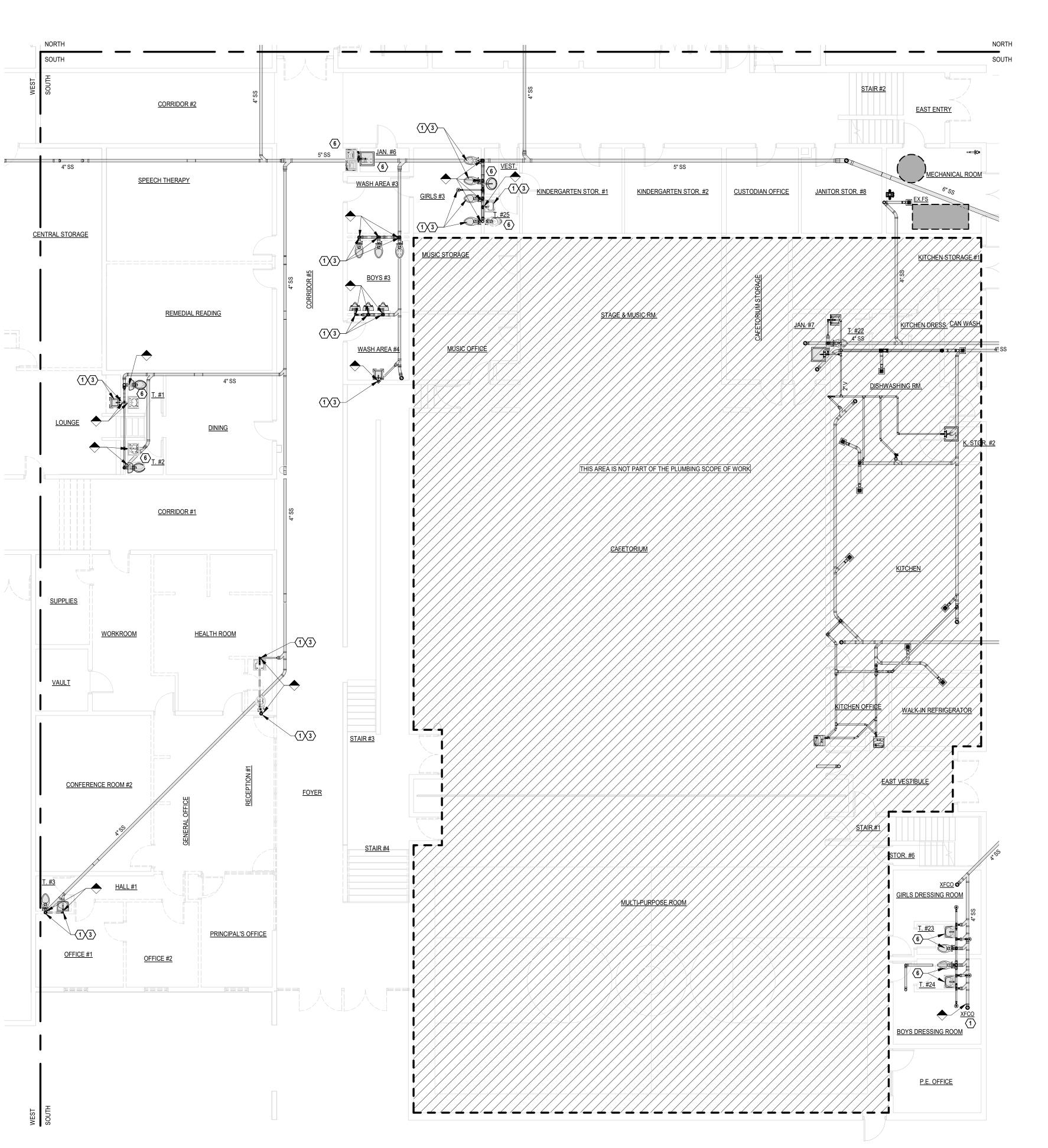
4 DEMOLISH EXISTING STORM DRAIN RISER IN WALL.

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 $\langle \overline{5} \rangle$ CAP EXISTING STORM DRAIN BELOW FLOOR.

6 EXISTING FIXTURE TO REMAIN.

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FIRST FLOOR PLAN AREA B - SANITARY SEWER AND VENT DEMOLITION

1/8" = 1'-0"

DEMOLITION KEYED NOTES

DEMOLISH EXISTING FIXTURE AND REWORK EXISTING ROUGH-IN FOR NEW FIXTURE.

CAP EXISTING SANITARY PIPING BELOW FLOOR, ABOVE CEILING OR IN WALL AS REQUIRED.

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(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.

4 DEMOLISH EXISTING STORM DRAIN RISER IN WALL.

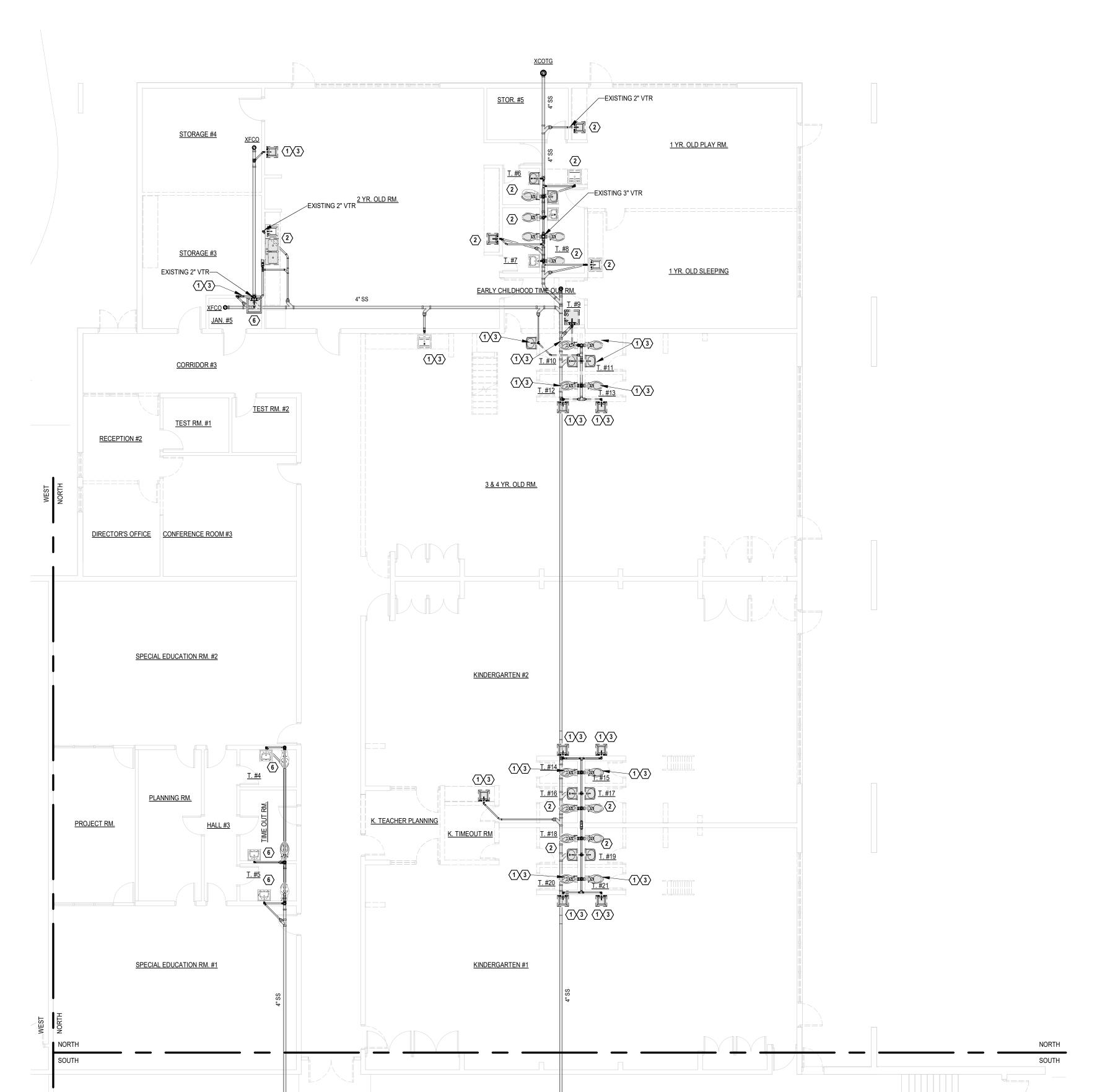
 $\overline{\langle 5 \rangle}$ CAP EXISTING STORM DRAIN BELOW FLOOR.

(6) EXISTING FIXTURE TO REMAIN.

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FIRST FLOOR PLAN AREA C - SANITARY SEWER AND VENT DEMOLITION

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLISH ALL UNUSED OR ABANDONDONED PIPING BACK TO MAIN. CAP AND VALVE AS REQUIRED.

DEMOLITION KEYED NOTES

DEMOLISH EXISTING FIXTURE AND REWORK EXISTING ROUGH-IN FOR NEW FIXTURE.

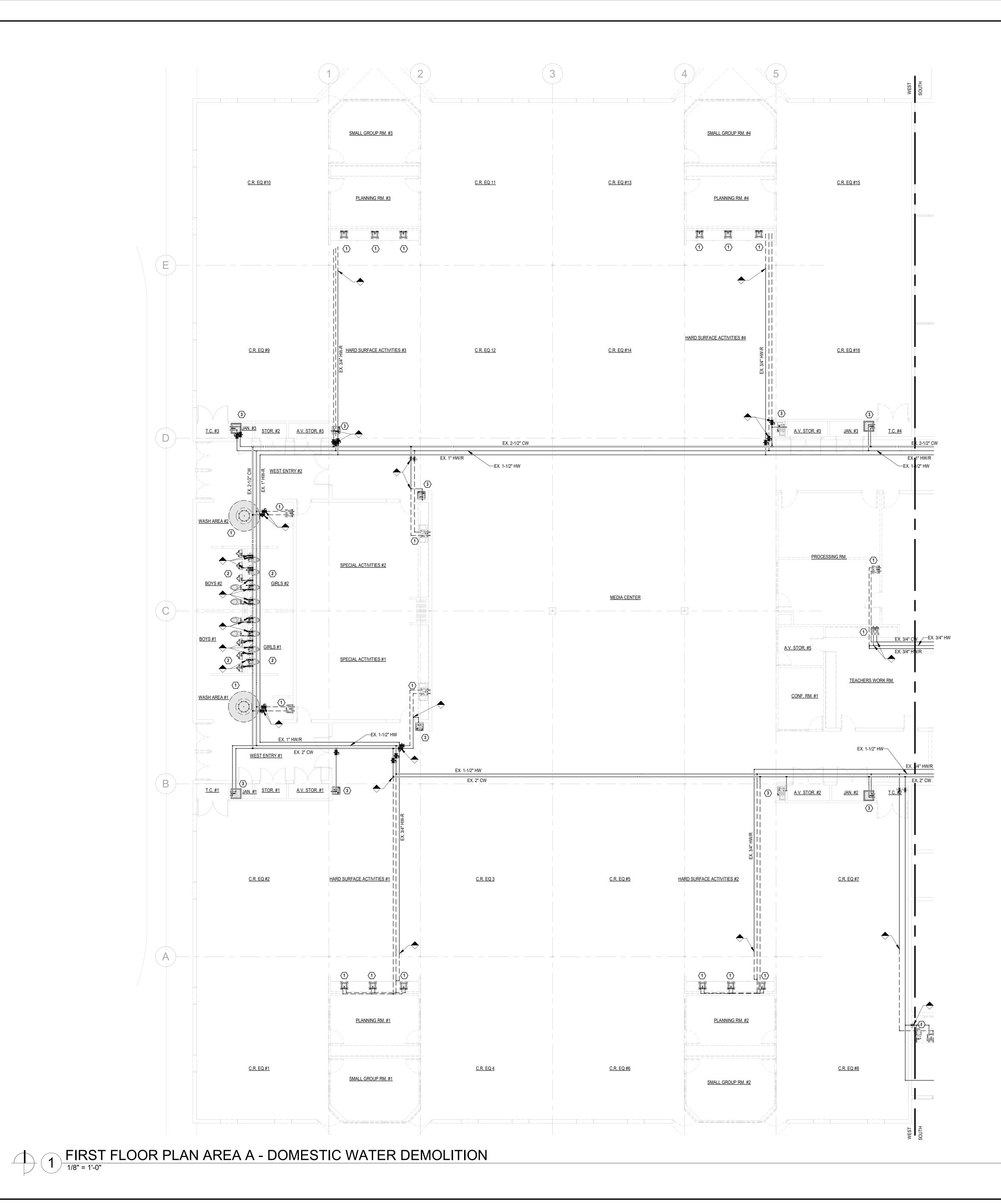
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(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.

3 EXISTING FIXTURE TO REMAIN

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DEMOLITION GENERAL NOTES

1. DEMOLISH ALL UNUSED OR ABANDONDONED PIPING BACK TO MAIN. CAP AND VALVE AS REQUIRED.

DEMOLITION KEYED NOTES

DEMOLISH EXISTING FIXTURE AND REWORK EXISTING ROUGH-IN FOR NEW FIXTURE.

(4) DEMOLISH EXISTING HOT WATER STORAGE TANK AND ASSOCIATED PIPING.

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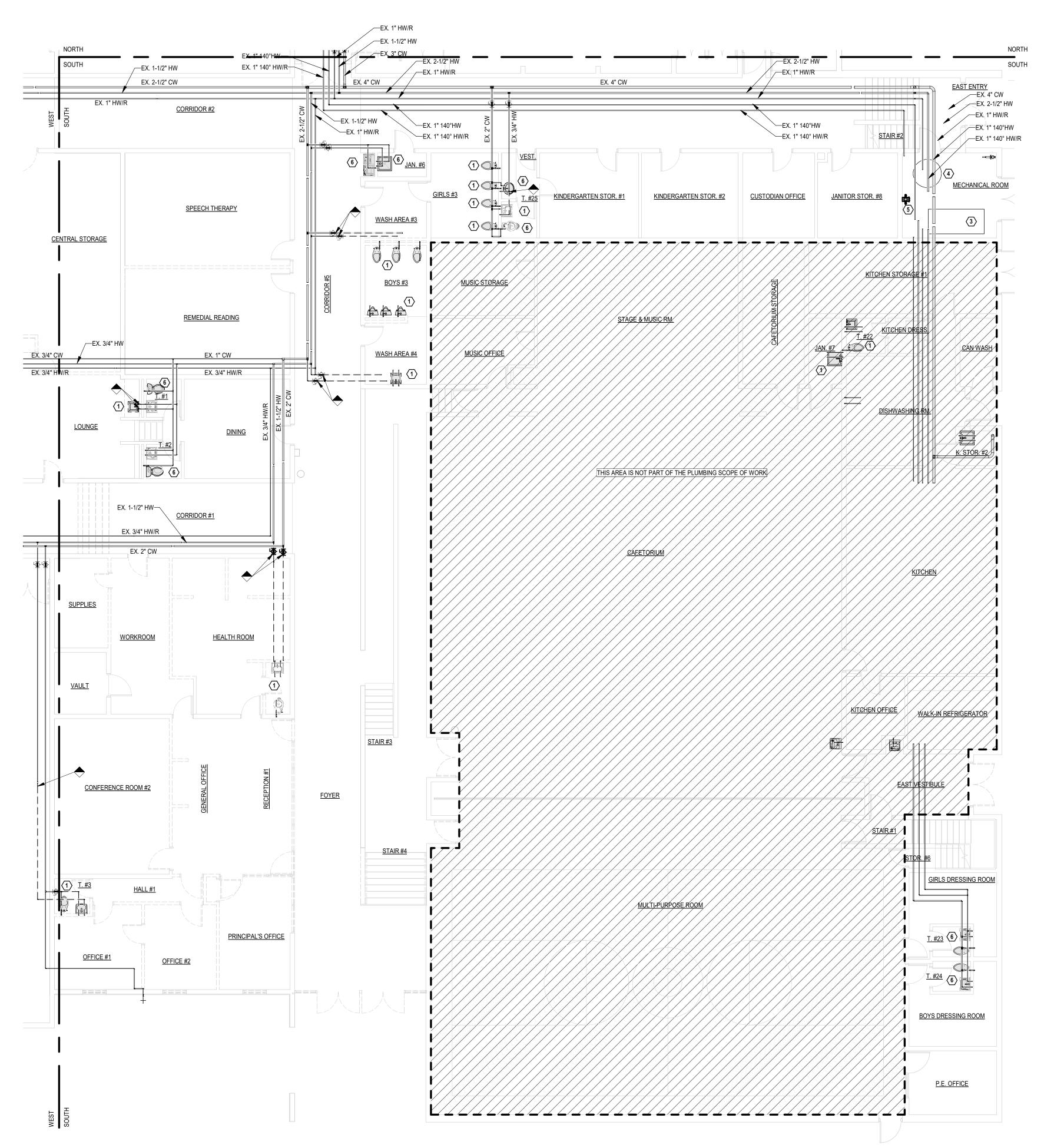
CSUSA

 $\overline{\langle 3 \rangle}$ DEMOLISH EXISTING WATER HEATER AND ASSOCIATED PIPING.

5 DEMOLISH EXISTING MIXING VALVE AND ASSOCIATED PIPING.

6 EXISTING FIXTURE TO REMAIN.

(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.



FIRST FLOOR PLAN AREA B - DOMESTIC WATER DEMOLITION

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLISH ALL UNUSED OR ABANDONDONED PIPING BACK TO MAIN. CAP AND VALVE AS REQUIRED.

DEMOLITION KEYED NOTES

DEMOLISH EXISTING FIXTURE AND REWORK EXISTING ROUGH-IN FOR NEW FIXTURE.

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(1) DEMOLISH EXISTING FIXTURE AND ASSOCIATED PIPING.

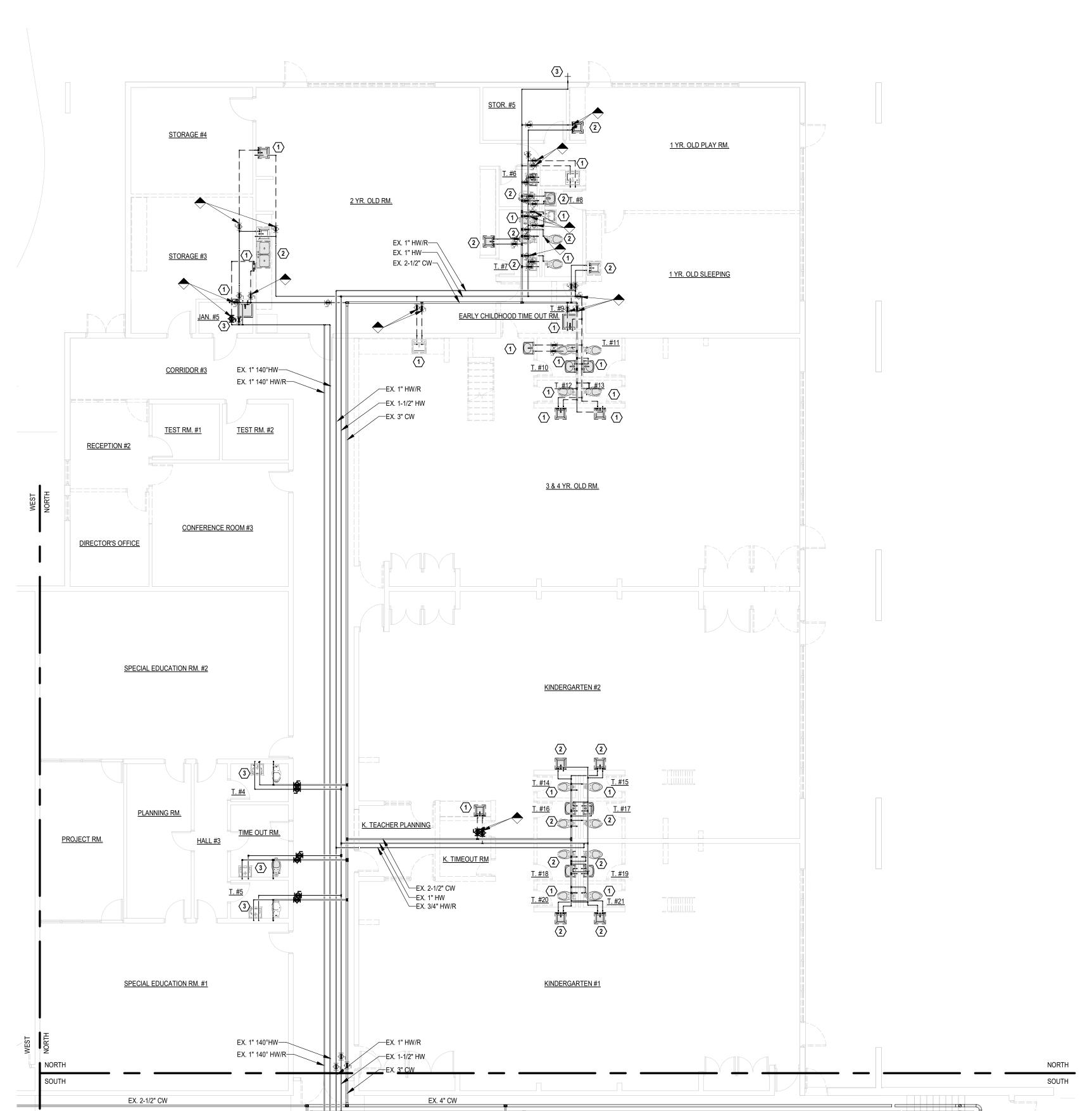
(3) EXISTING FIXTURE TO REMAIN.

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FIRST FLOOR PLAN AREA C - DOMESTIC WATER DEMOLITION

1/8" = 1'-0"



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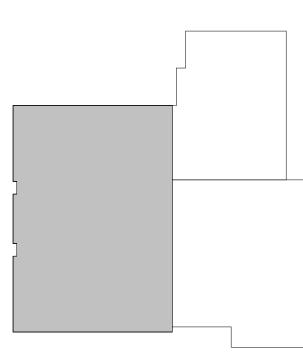
KEYED NOTES

(1) REWORK EXISTING ROUGH IN AND INSTALL NEW FIXTURE.

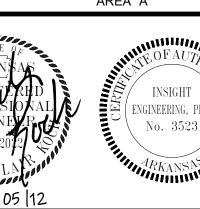
- CAP EXISTING PIPING BELOW FLOOR, ABOVE CEILING OR IN WALL, AS REQUIRED.
- 3 4" SS DOWN TO BELOW FLOOR.
- $\overline{4}$ 3" SS DOWN TO BELOW FLOOR.
- 5 2" SS DOWN TO BELOW FLOOR.
- 6 SANITARY PIPING ABOVE FLOOR.
- (7) EXISTING VTR PENETRATION.
- 8 4" SD DOWN TO BELOW FLOOR.
- 9 EXISTING 4" SD UP TO ROOF DRAIN.

(10) EXISTING FIXTURE TO REMAIN.

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KEYED NOTES

(1) REWORK EXISTING ROUGH IN AND INSTALL NEW FIXTURE.

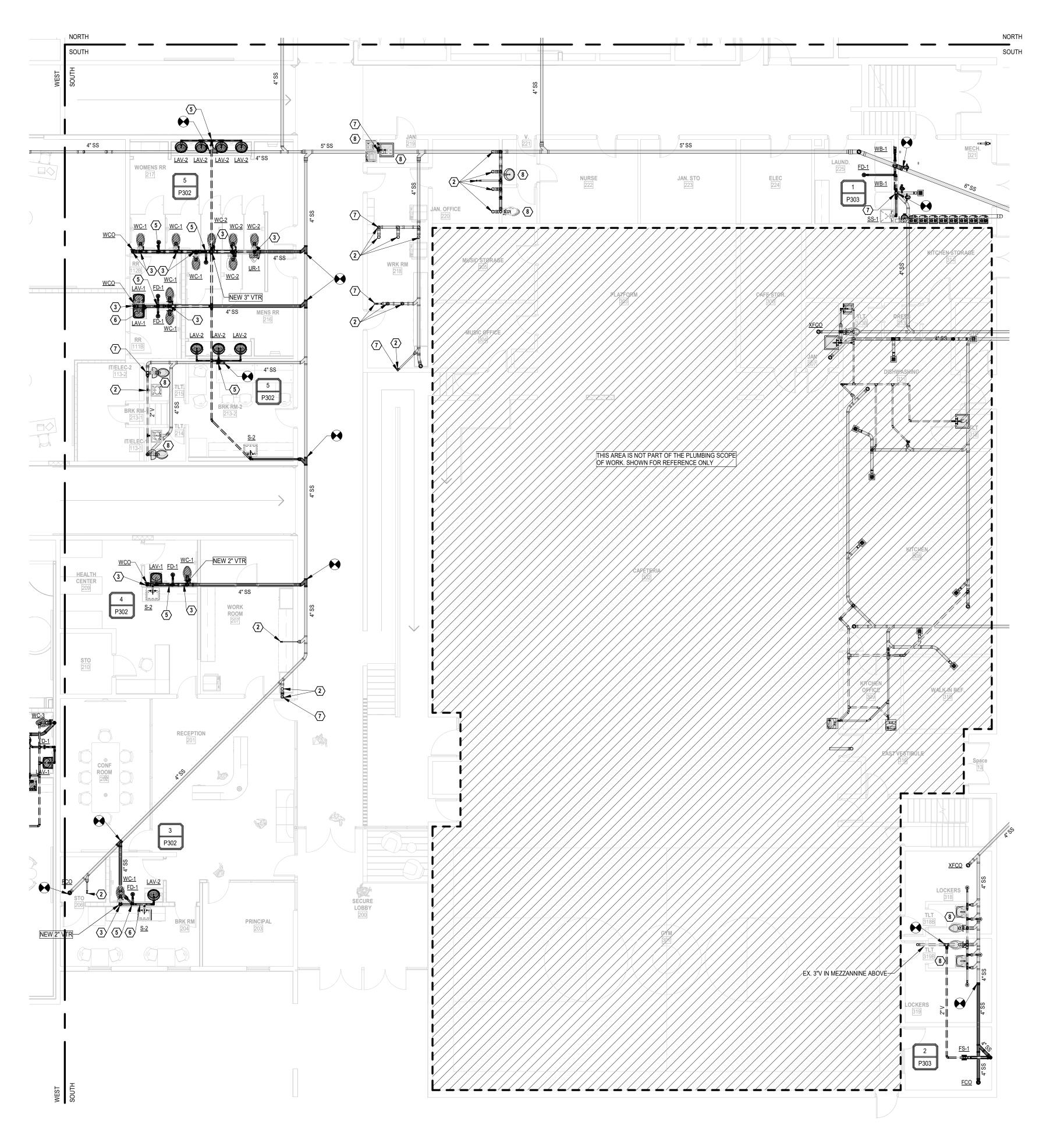
4" SS DOWN TO BELOW FLOOR.
 3" SS DOWN TO BELOW FLOOR.
 2" SS DOWN TO BELOW FLOOR.
 SANITARY PIPING ABOVE FLOOR.

(8) EXISTING FIXTURE TO REMAIN.

(7) EXISTING VTR.

(2) CAP EXISTING PIPING BELOW FLOOR, ABOVE CEILING OR IN WALL, AS REQUIRED.

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FIRST FLOOR PLAN AREA B - SANITARY SEWER AND VENT

KEYED NOTES

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(1) REWORK EXISTING ROUGH IN AND INSTALL NEW FIXTURE.

4" SS DOWN TO BELOW FLOOR.
 3" SS DOWN TO BELOW FLOOR.
 2" SS DOWN TO BELOW FLOOR.
 SANITARY PIPING ABOVE FLOOR.

8 EXISTING FIXTURE TO REMAIN.

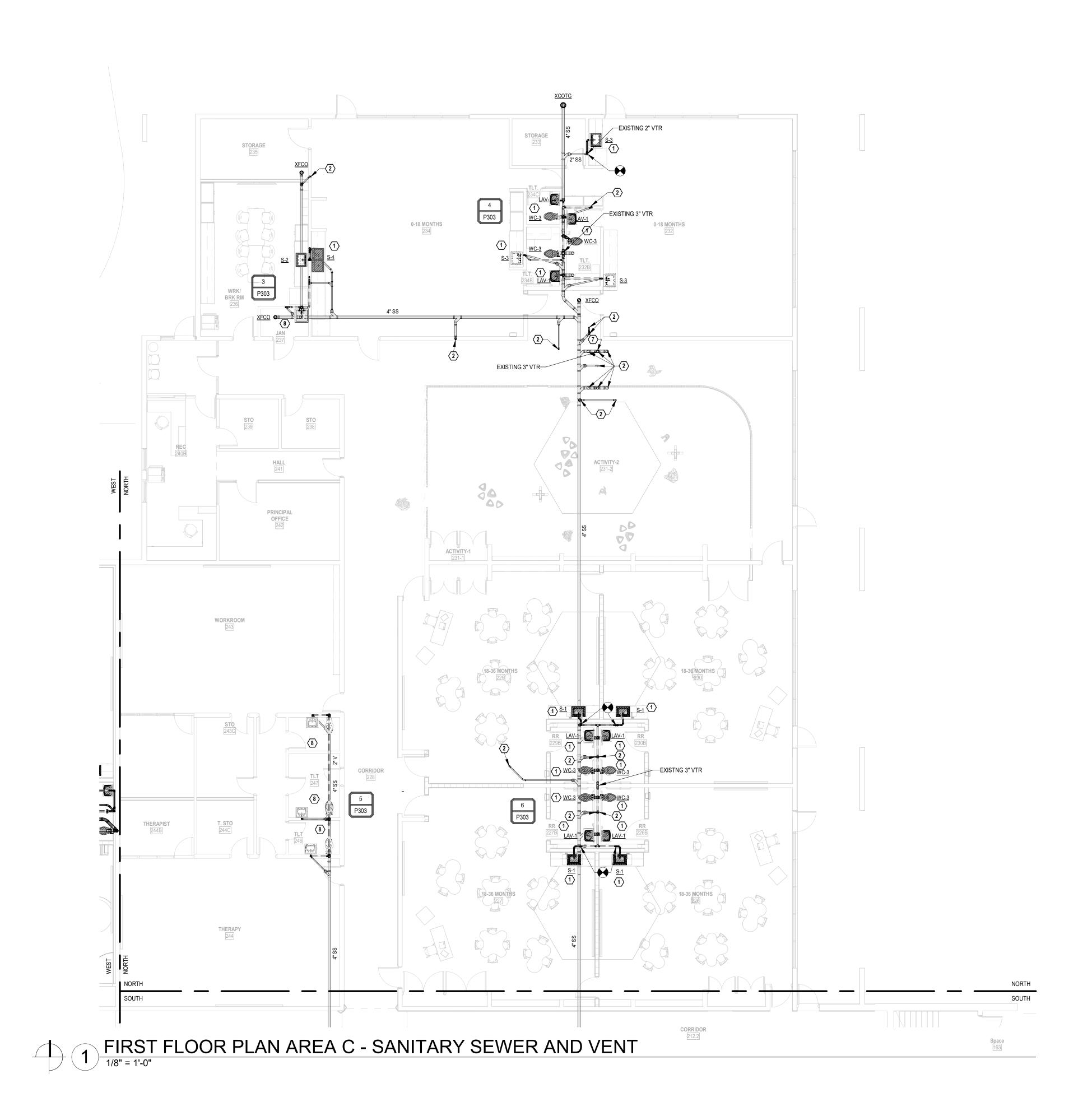
(7) EXISTING VTR.

(2) CAP EXISTING PIPING BELOW FLOOR, ABOVE CEILING OR IN WALL, AS REQUIRED.

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KEYED NOTES

THERMOSTATIC BALANCING VALVE EQUAL TO CIRCUITSOLVER MODEL: CS-PIPE SIZE-120.

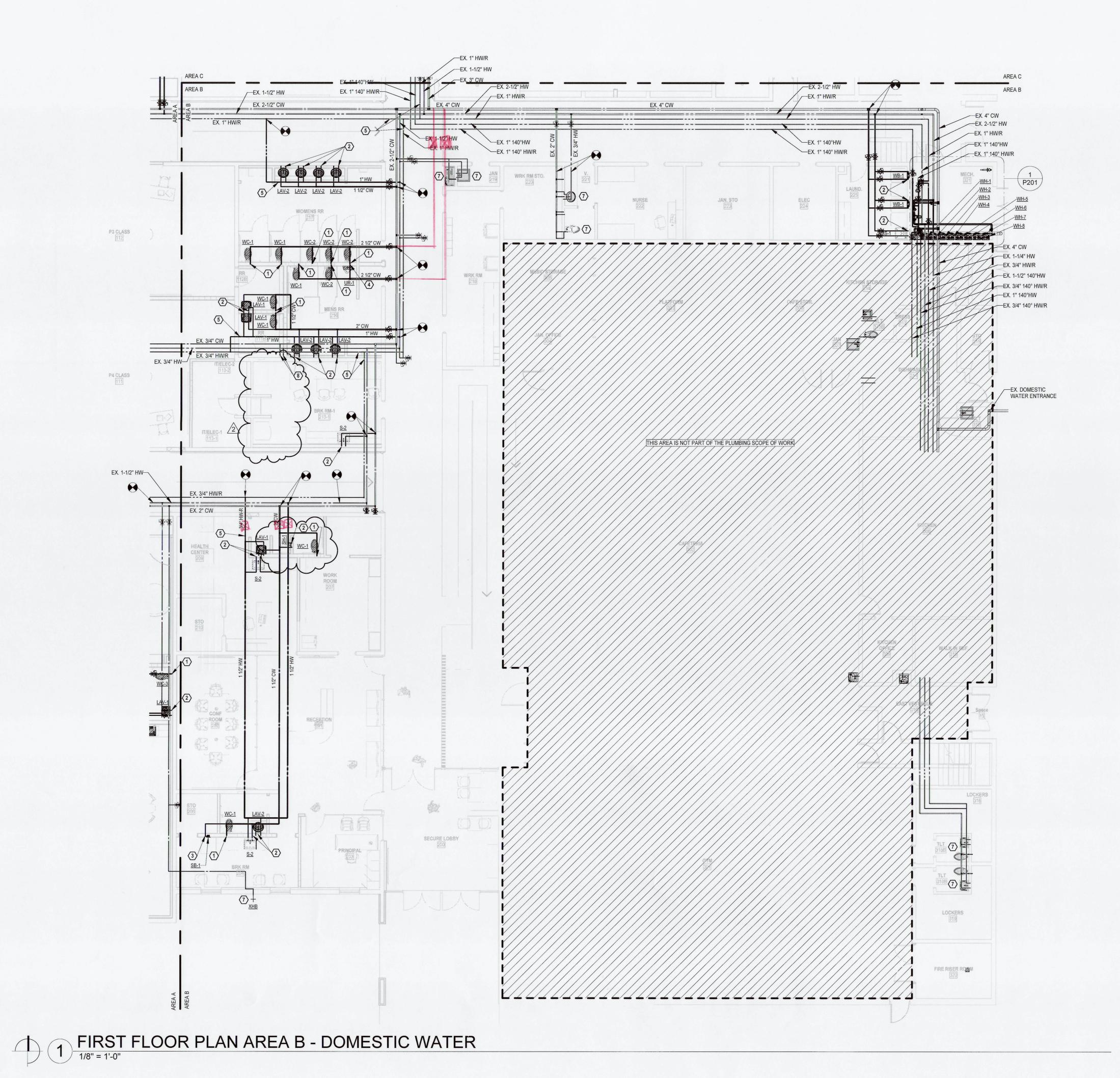
(6) REWORK EXISTING PLUMBING ROUGH-IN AND CONNECT NEW FIXTURE.

1" CW DOWN TO FIXTURE.

3 1/2" CW DOWN TO FIXTURE.

4 3/4" CW DOWN TO FIXTURE.

2 1/2" HW & CW DOWN TO FIXTURE.



GENERAL NOTES

KEYED NOTES

THERMOSTATIC BALANCING VALVE EQUAL TO CIRCUITSOLVER MODEL: CS-3/4-120.

(5) REWORK EXISTING PLUMBING ROUGH-IN AND CONNECT NEW FIXTURE.

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SAMPLE TEXT...
SAMPLE TEXT...

1" CW DOWN TO FIXTURE.

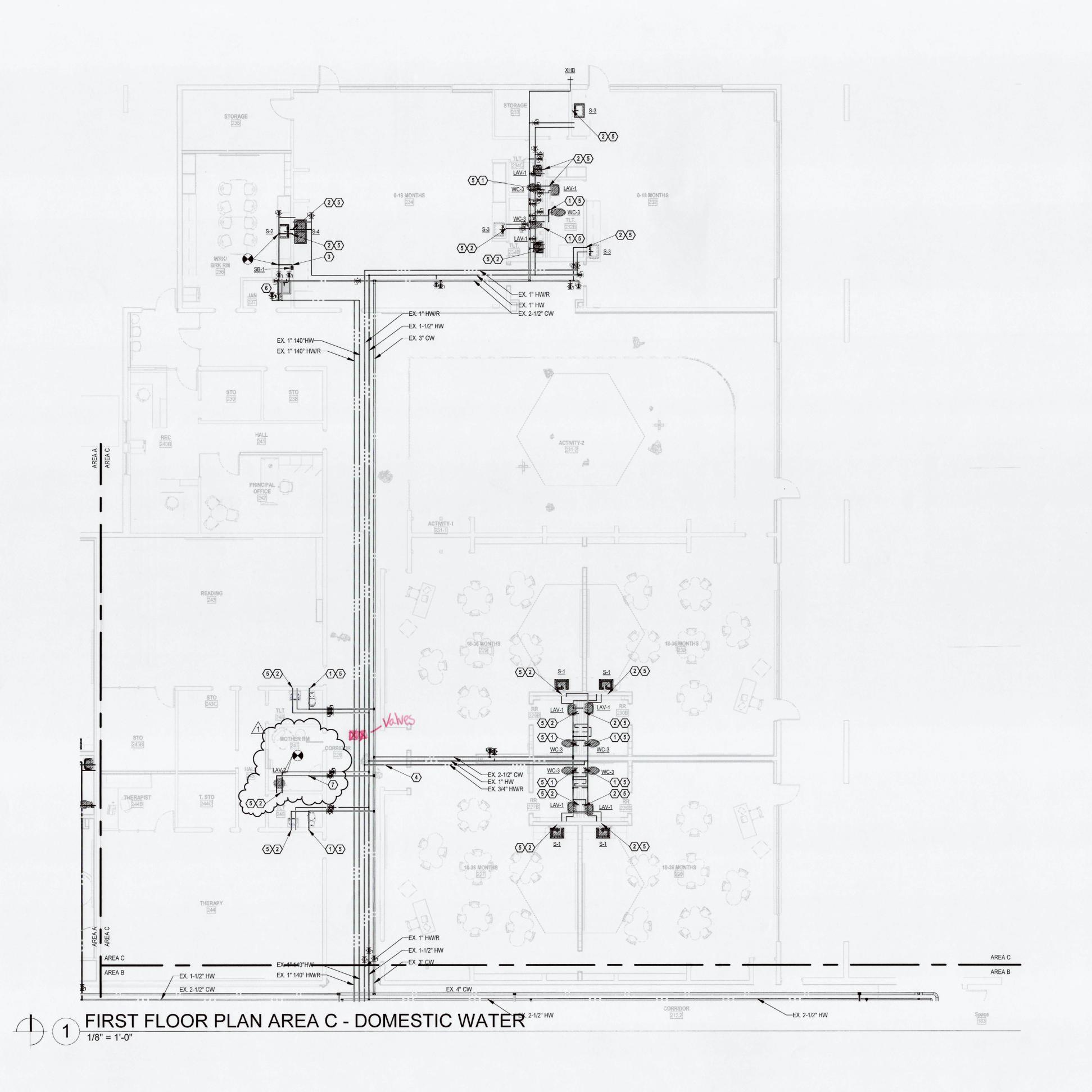
2 1/2" HW & CW DOWN TO FIXTURE.

3 1/2" CW DOWN TO FIXTURE.

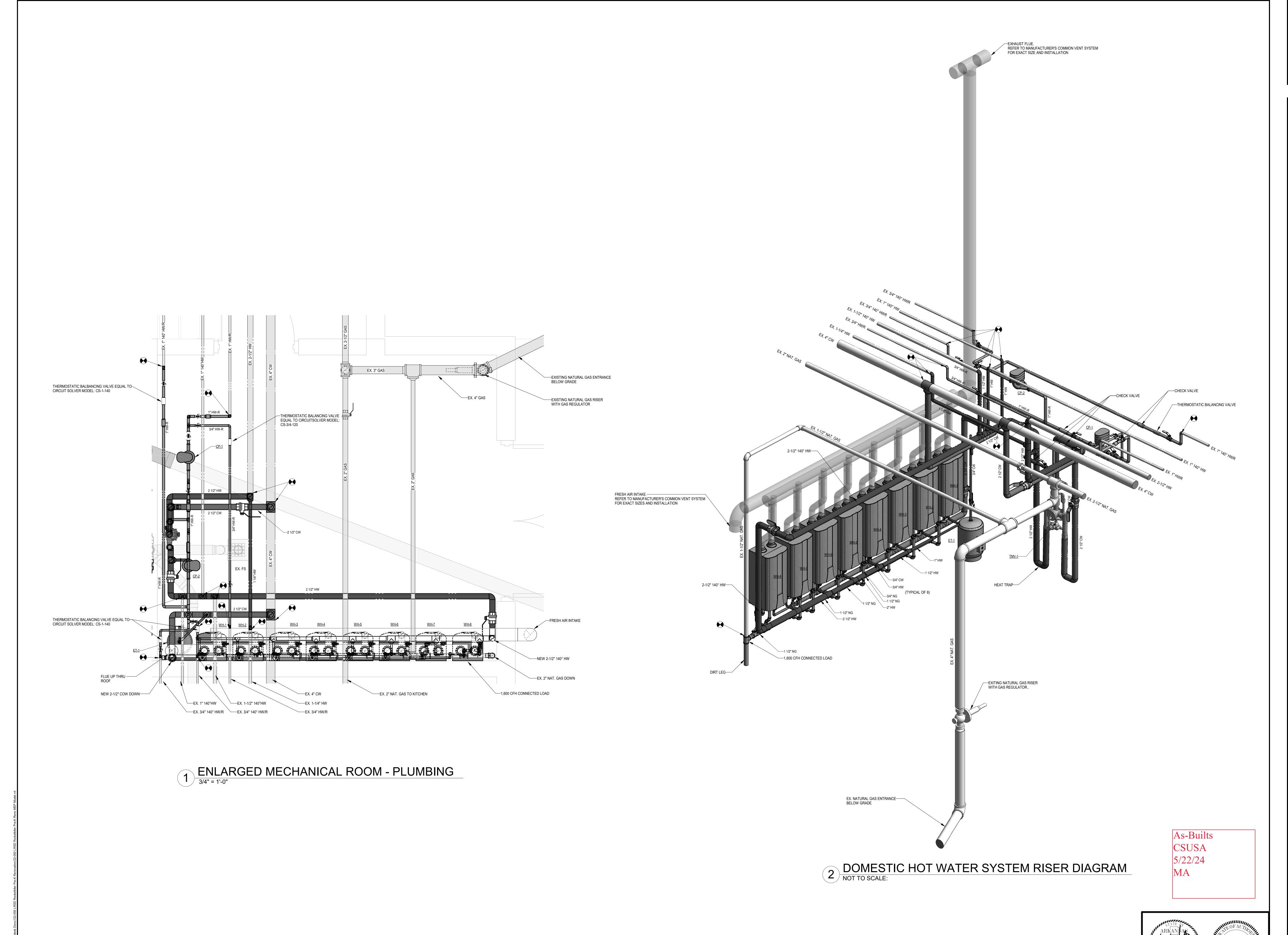
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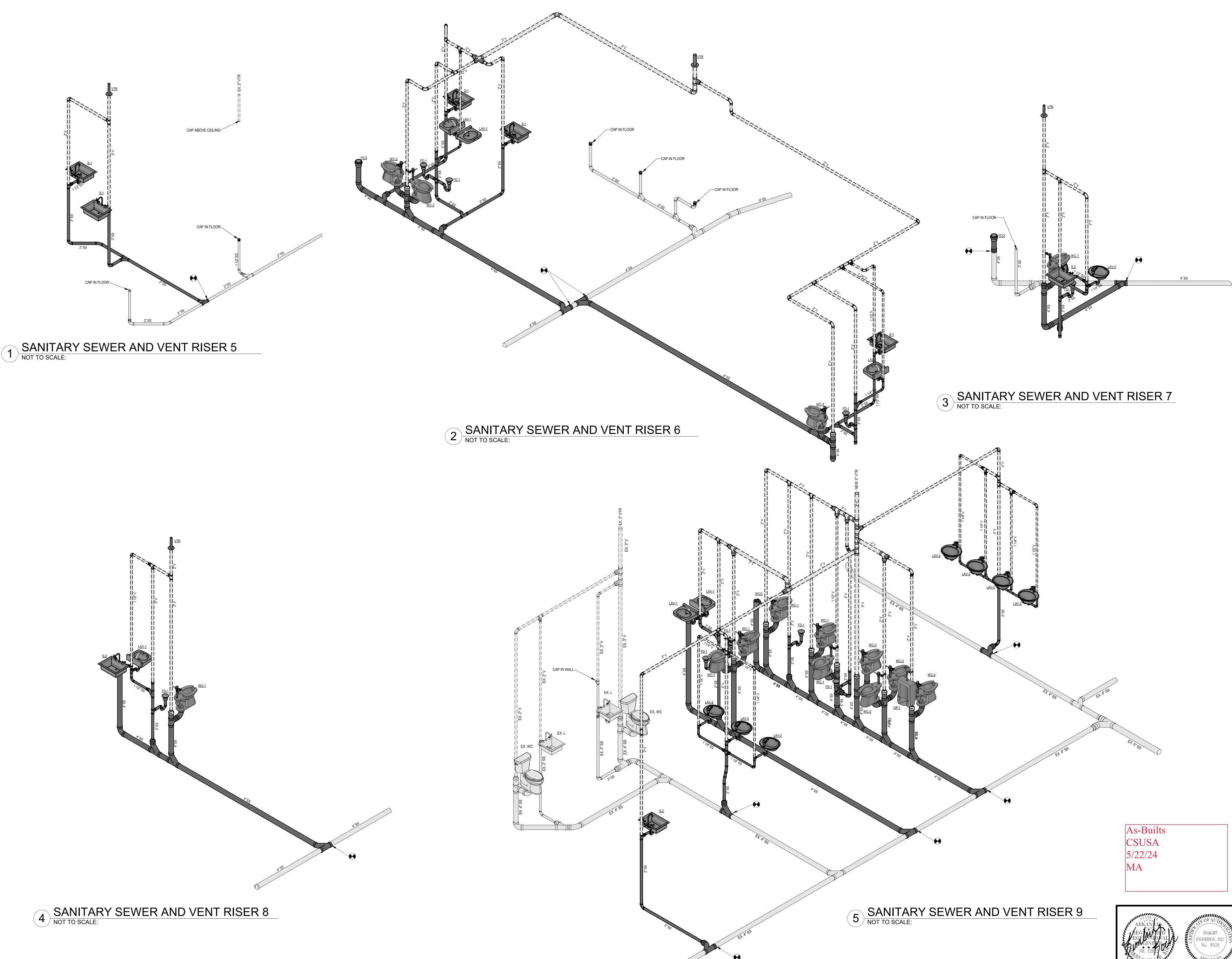


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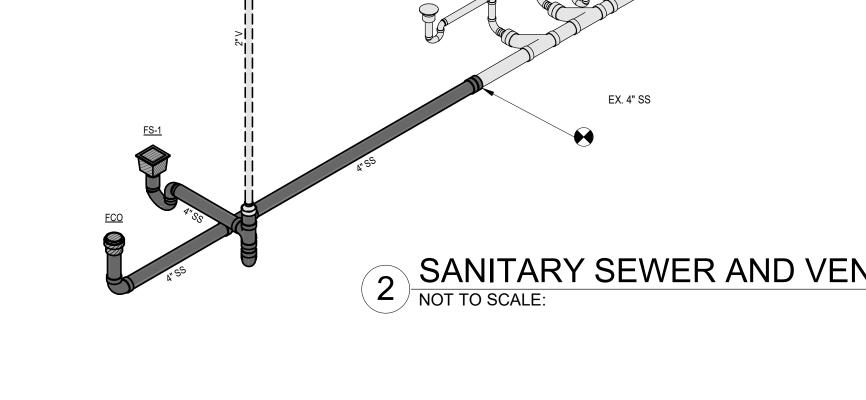
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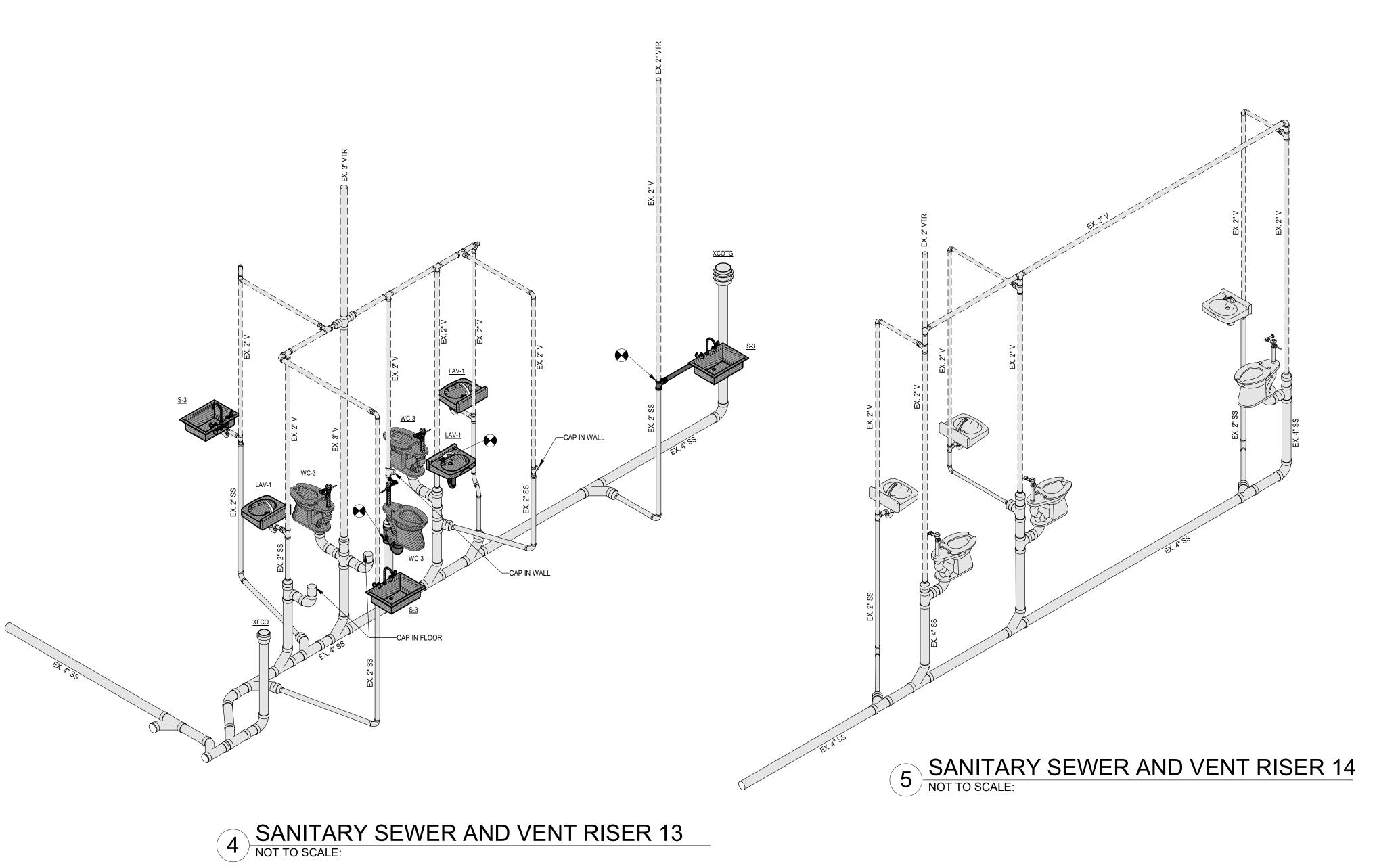
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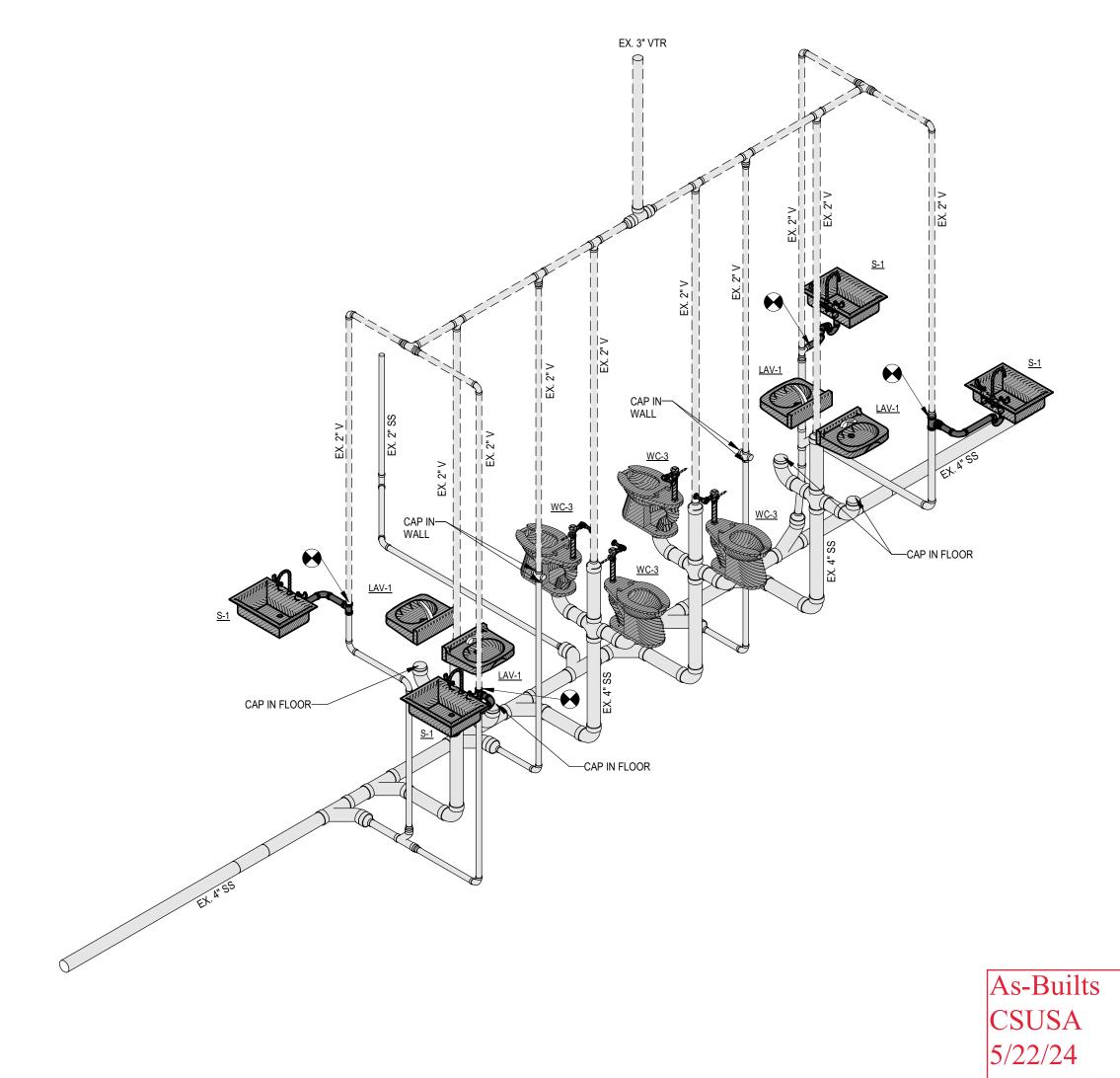
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2 SANITARY SEWER AND VENT RISER 11 NOT TO SCALE:





1 SANITARY SEWER AND VENT RISER 10 NOT TO SCALE:

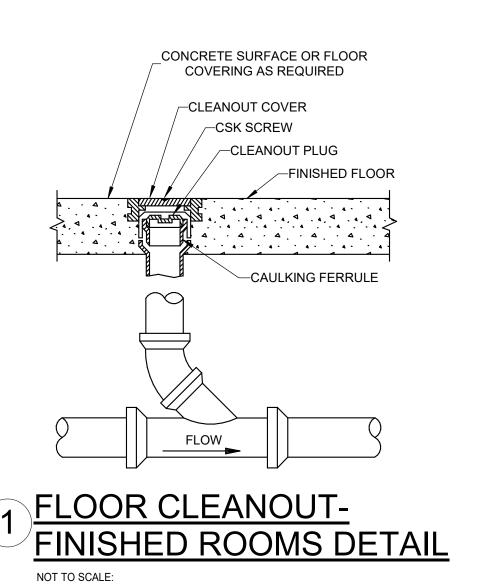


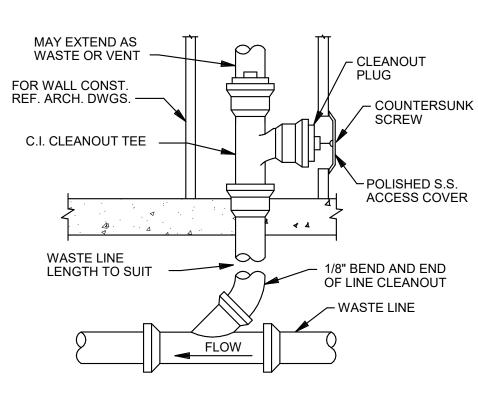
3 SANITARY SEWER AND VENT RISER 12 NOT TO SCALE:

6 SANITARY SEWER AND VENT RISER 15 NOT TO SCALE:

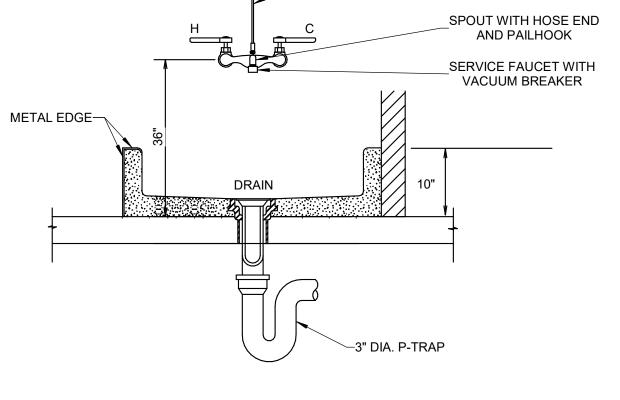
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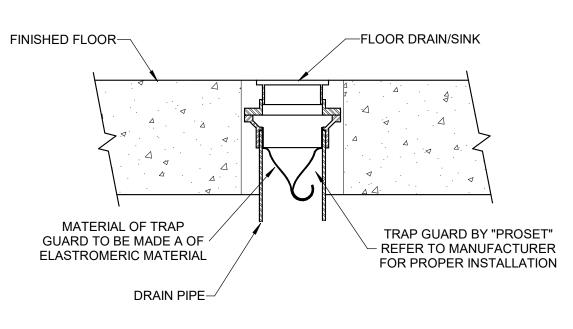
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NOT TO SCALE:

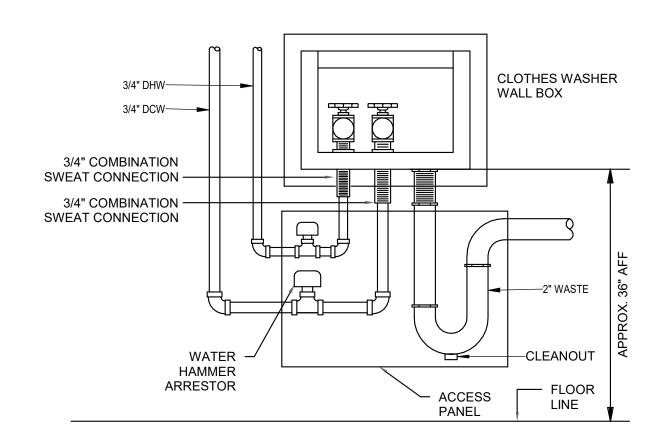


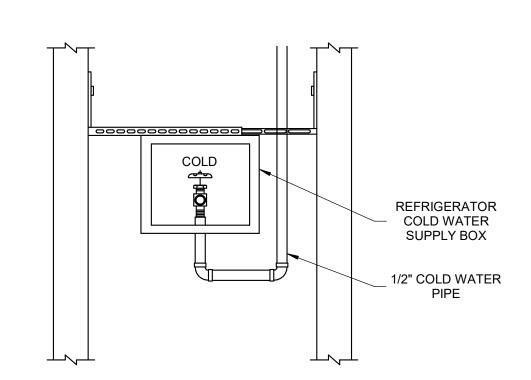


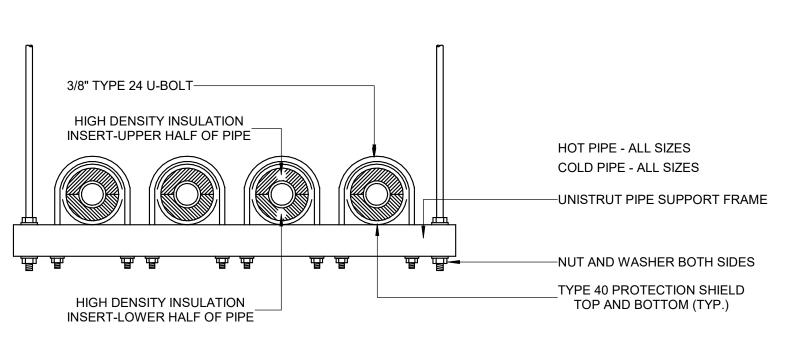
2 WALL CLEANOUT-FINISHED

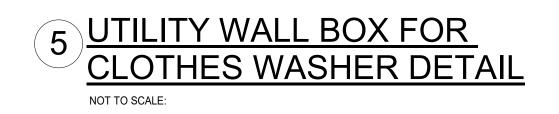
3 SERVICE SINK DETAIL

4 TRAP-GUARD DETAIL



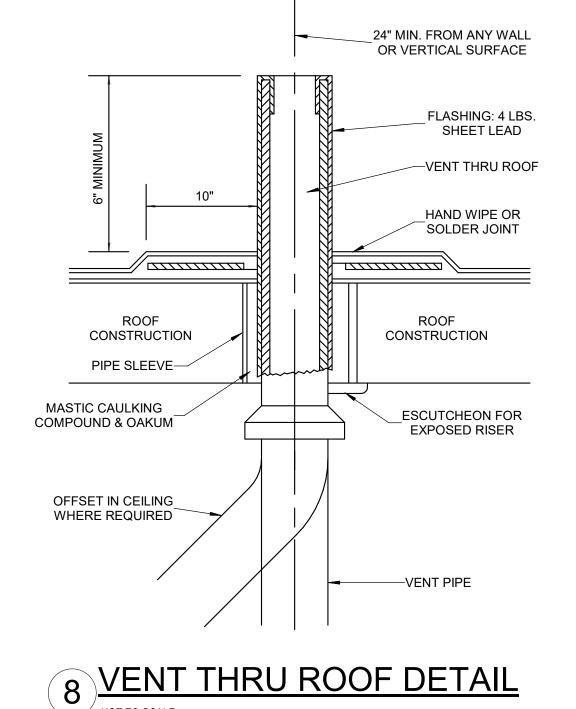


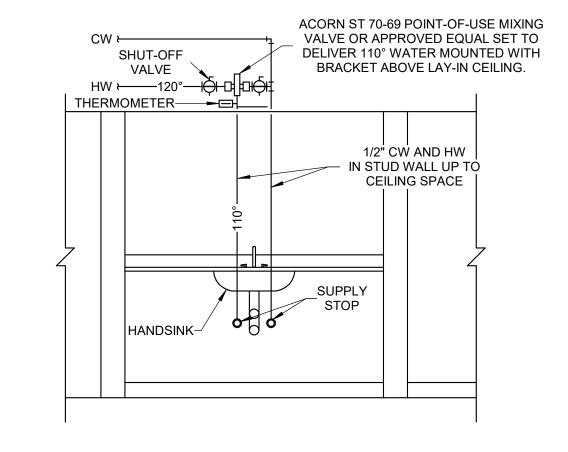


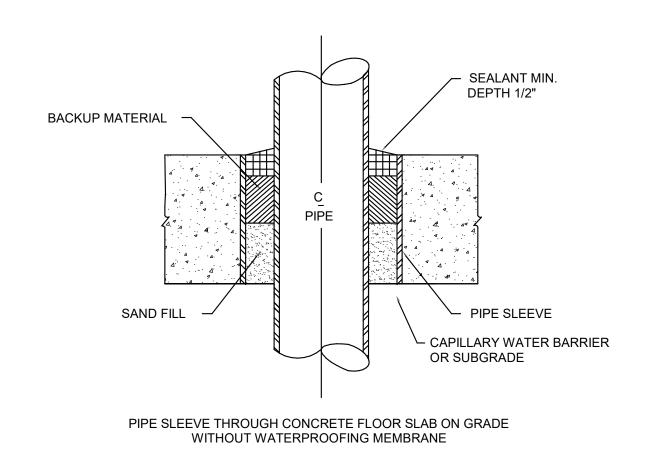


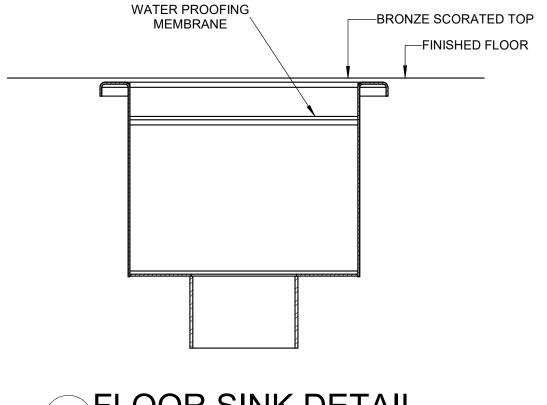
6 ICE MAKER COLD WATER
SUPPLY BOX W/O DRAIN DETAIL

7 HORIZONTAL PIPE SUPPORT DETAIL









9 POINT OF USE MIXING VALVE DETAIL

10 PIPE SLEEVE DETAIL



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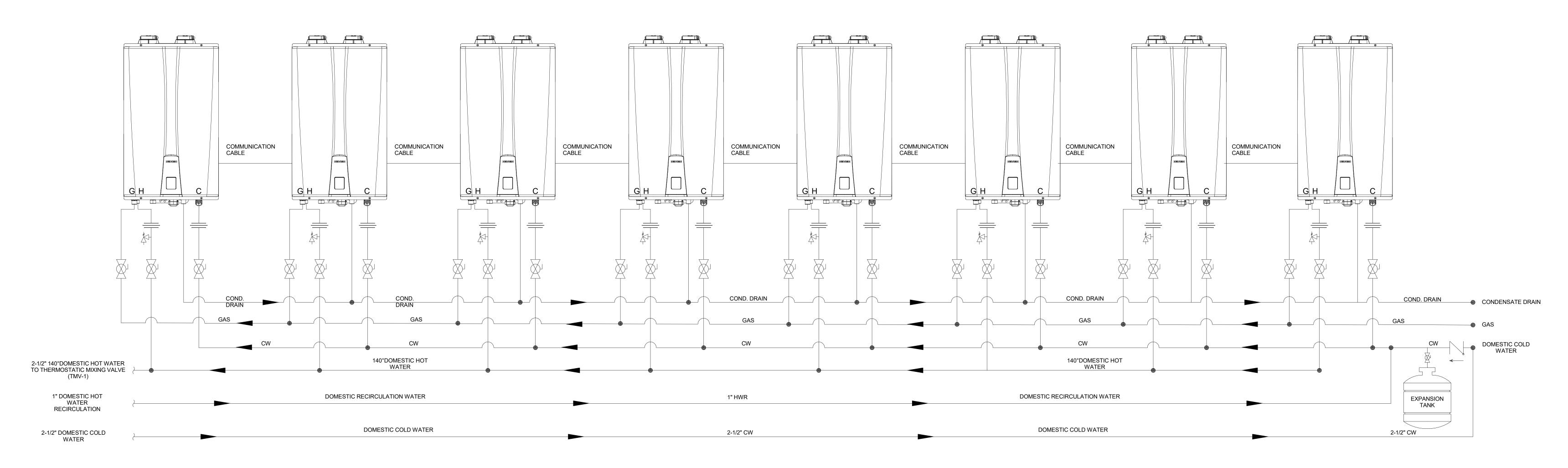
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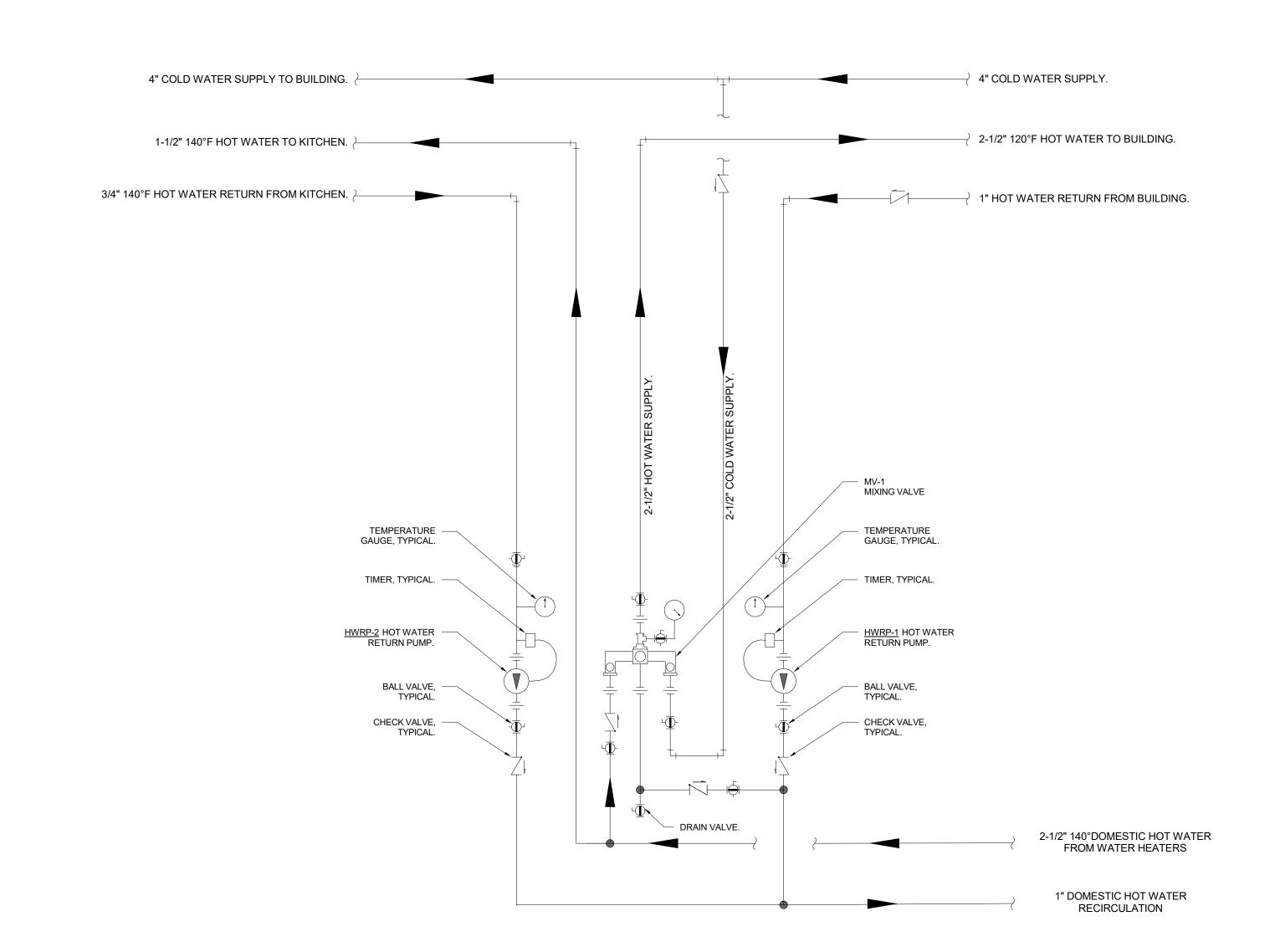
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TANKLESS DOMESTIC WATER HEATER PIPING DETAIL NOT TO SCALE:



2 DOMESTIC WATER BUILDING MIXING VALVE PIPING DETAIL
NOT TO SCALE: