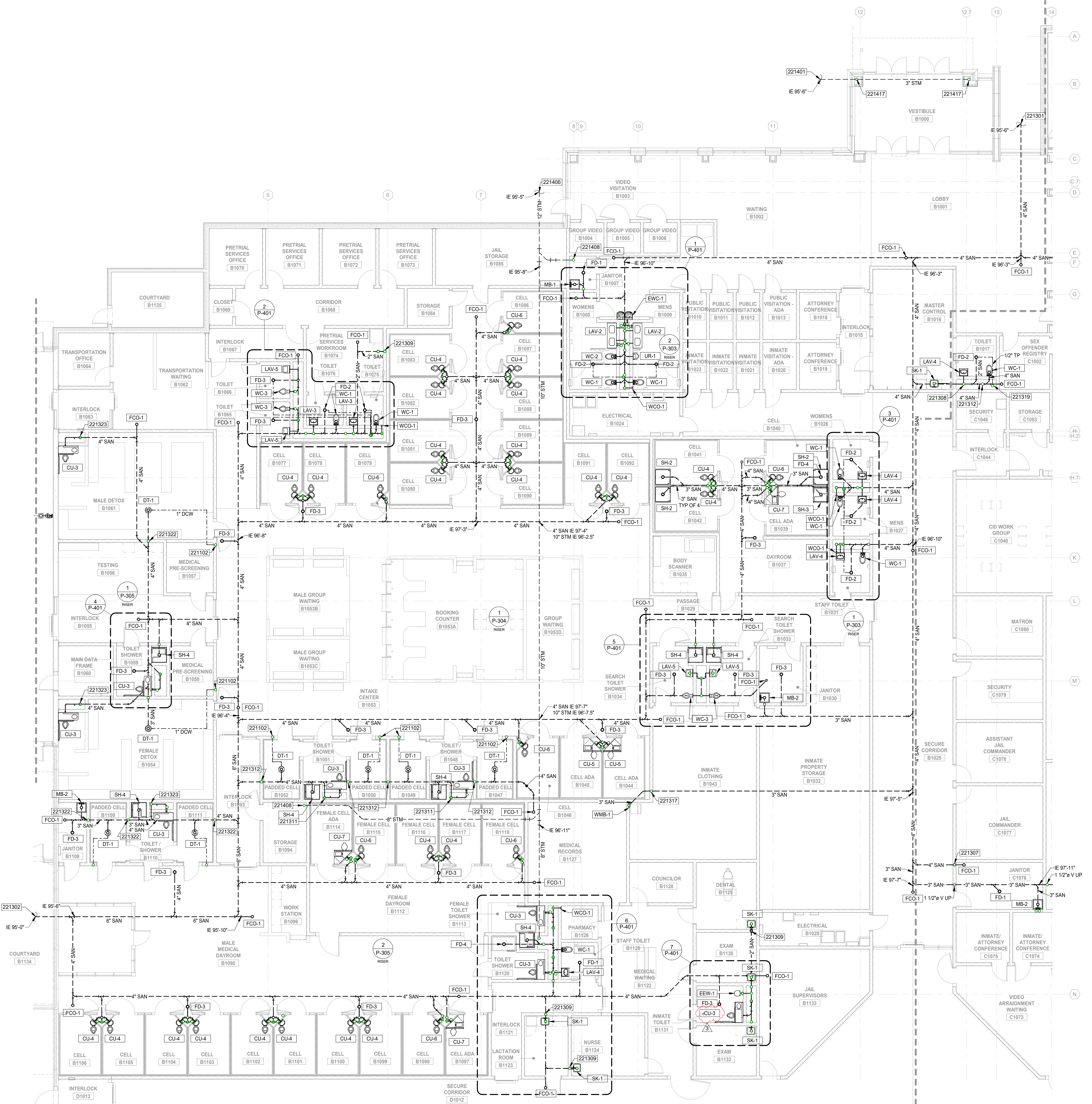
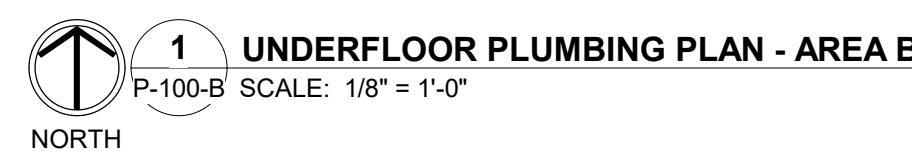




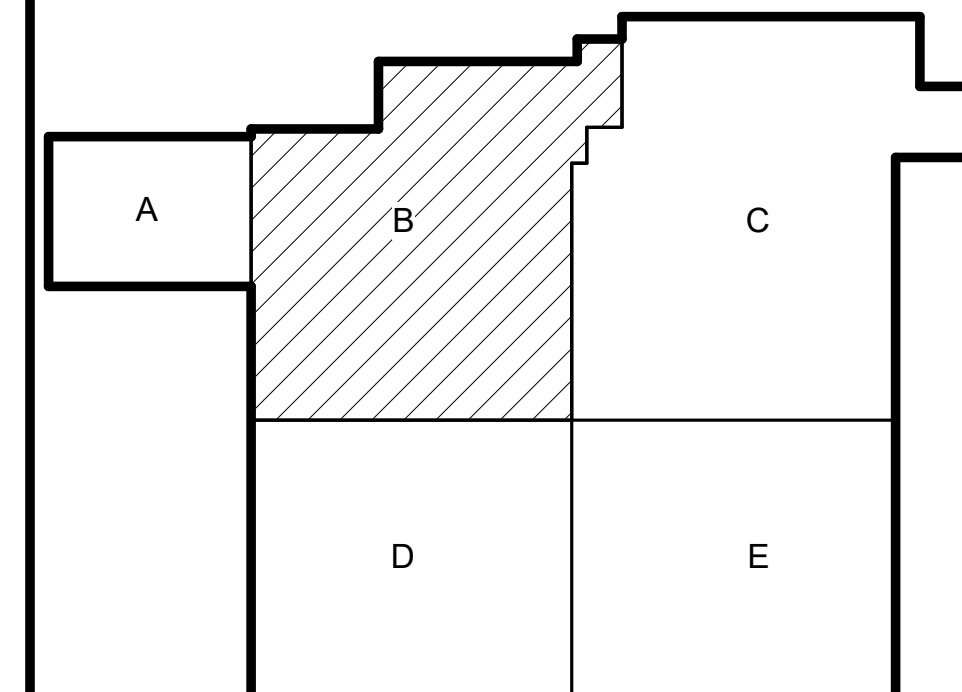
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

- 221102 1" DOW FROM REMOTE FLUSH VALVE WITH BOX ABOVE.
- 221301 4" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
- 221302 6" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
- 221307 4" SAN DN FROM B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.
- 221308 1-1/2" SAN DN AND 1-1/4" V UP.
- 221309 1-1/2" SAN DN AND 1-1/2" V UP.
- 221311 4" SAN DN AND 2" V UP.
- 221312 2" V UP.
- 221317 1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
- 221319 1/2" TP DN FROM ABOVE.
- 221322 3" V UP.
- 221323 4" SAN DN AND 3" V UP.
- 221401 3" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
- 221406 12" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
- 221408 8" STM FROM ABOVE.
- 221417 3" STM FROM RD-2.

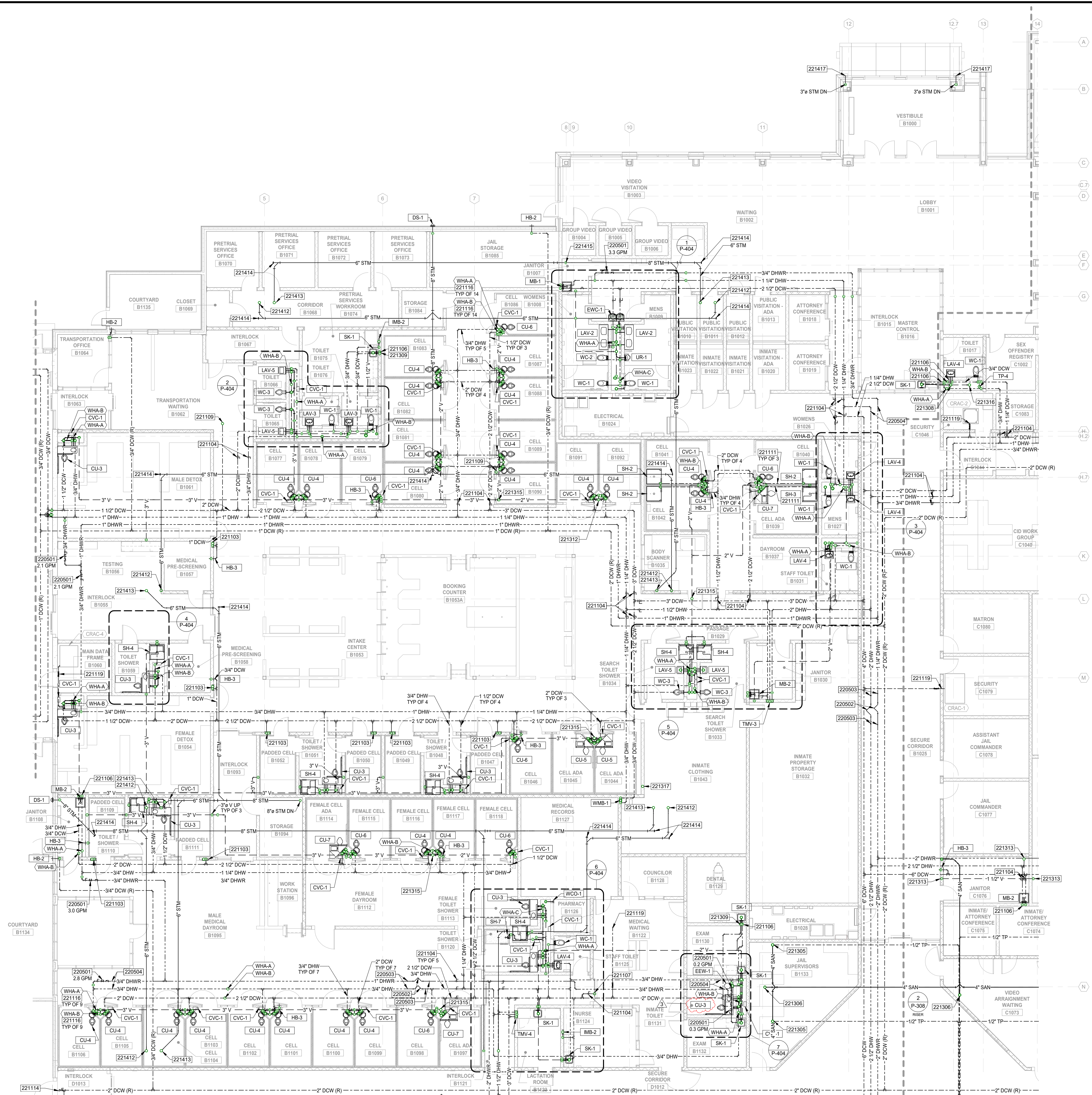
KEY PLAN



NO.	REVISION	DATE
3	Addendum #103	09/26/19
2		
1		

DRAWN: JB	CHKD: JRA
DESIGNED: KB	APPROVD: JRA
DATE: September 5, 2019	PROJECT NUMBER
1663-1190-90	

VIGO COUNTY SECURITY CENTER	
TERRE HAUTE, INDIANA	
UNDERFLOOR PLUMBING PLAN - AREA B	
DRAWING NUMBER	P-100-B
PLUMBING	



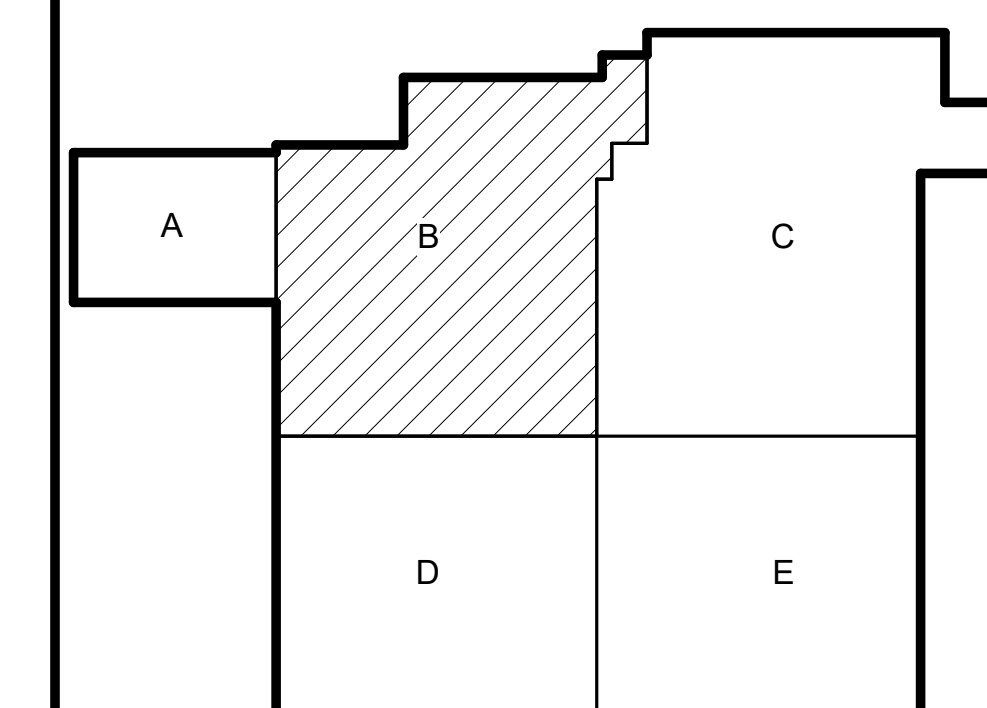
GENERAL NOTES

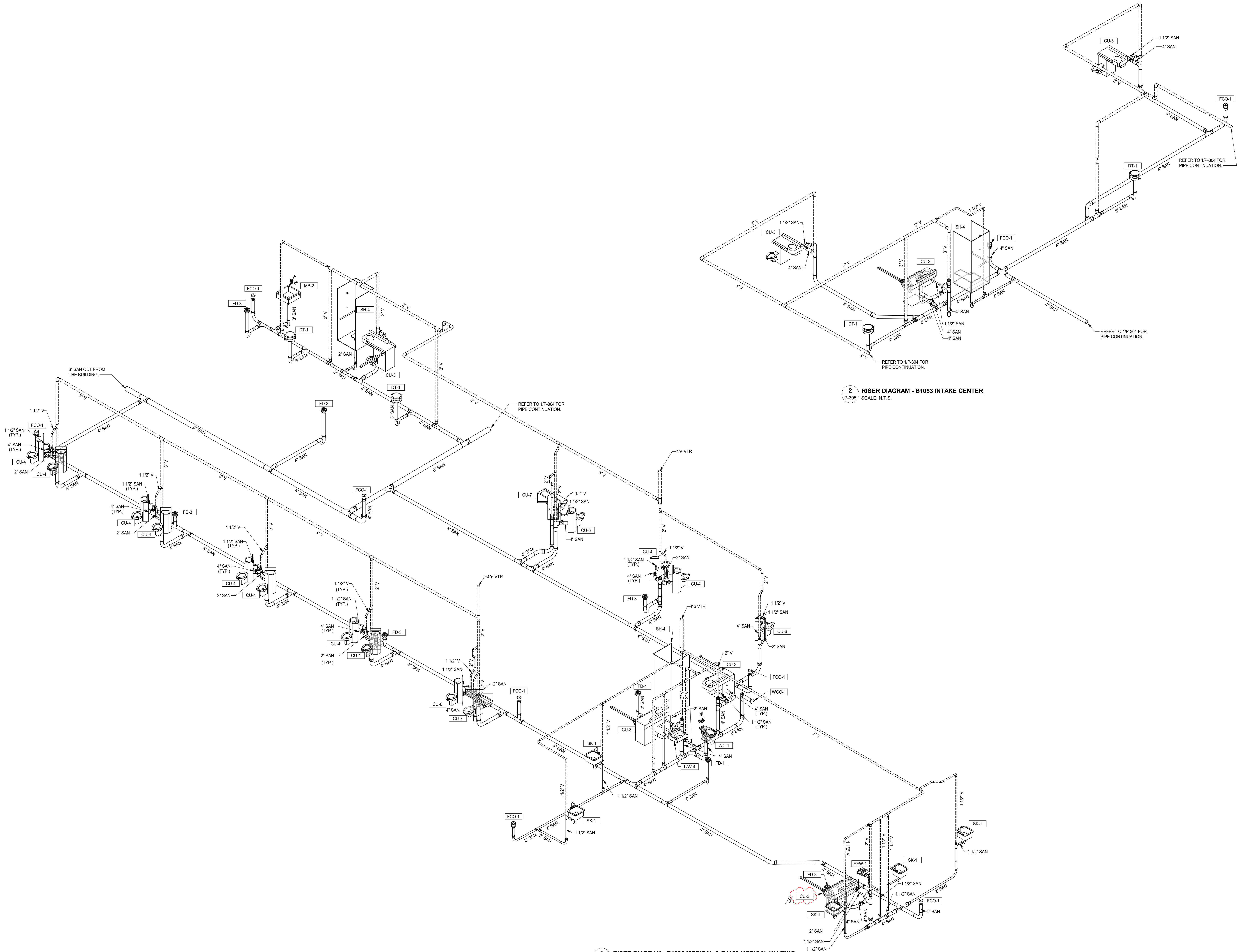
1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
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4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

- | | |
|--------|--|
| 220501 | DHWIR BALANCING VALVE. PROVIDE SHUT-OFF, STRAINER AND CHECK VALVES DOWNSTREAM OF BALANCING VALVE. BALANCE TO GPM INDICATED ON PLANS. |
| 220502 | PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION. |
| 220503 | PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION. |
| 220504 | PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION. |
| 221103 | PROVIDE 1" DCW FOR REMOTE FLUSH VALVE. 1" DCW TO BE ROUTED FROM REMOTE FLUSH VALVE TO DT-1. REFER TO P-100 FOR 1" DCW ROUTING AND DT-1 LOCATION. |
| 221104 | PROVIDE SHUT-OFF VALVE. |
| 221106 | 3/4" DCW AND DHW DOWN. |
| 221107 | 3/4" DCW UP TO B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR. REFER TO P-102-8C FOR PIPE CONTINUATION. |
| 221108 | 3/4" DCW UP TO ROOF FOR RH-1. |
| 221111 | PIPE WITH FLEX PIPE TO CONNECT FROM 3/4" DHW PIPE IN CHASE TO SH FIXTURE. |
| 221114 | PIPE CAPPED FOR FUTURE EXPANSION. PROVIDE SHUT-OFF VALVE. |
| 221116 | PROVIDE WATER HAMMER ARRESTOR ON DCW AND DHW TYPICAL OF EACH CHASE. |
| 221119 | 1/2"DCW TO HUMIDIFIER ON CRAC UNIT. PROVIDE 1/2" BACKFLOW PREVENTER. REFER TO MECHANICAL PLANS FOR EXACT LOCATION. |
| 221305 | 4" SAN DN FROM FS-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR. |
| 221306 | 4" SAN DN FROM FCO-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR. |
| 221308 | 1-1/2" SAN DN AND 1-1/4" V UP. |
| 221309 | 1-1/2" SAN DN AND 1-1/2" V UP. |
| 221312 | 2" V UP. |
| 221313 | 1-1/2" V UP. |
| 221315 | 3" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION. |
| 221316 | 2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION. |
| 221317 | 1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION. |
| 221409 | 10" STM DN FROM ABOVE. |
| 221412 | 6" STM DN FROM ORD-1. |
| 221413 | 6" STM DN FROM RD-1. |
| 221414 | PROVIDE CO. |
| 221415 | 8" STM DN. |
| 221417 | 3" STM DN FROM RD-2. |

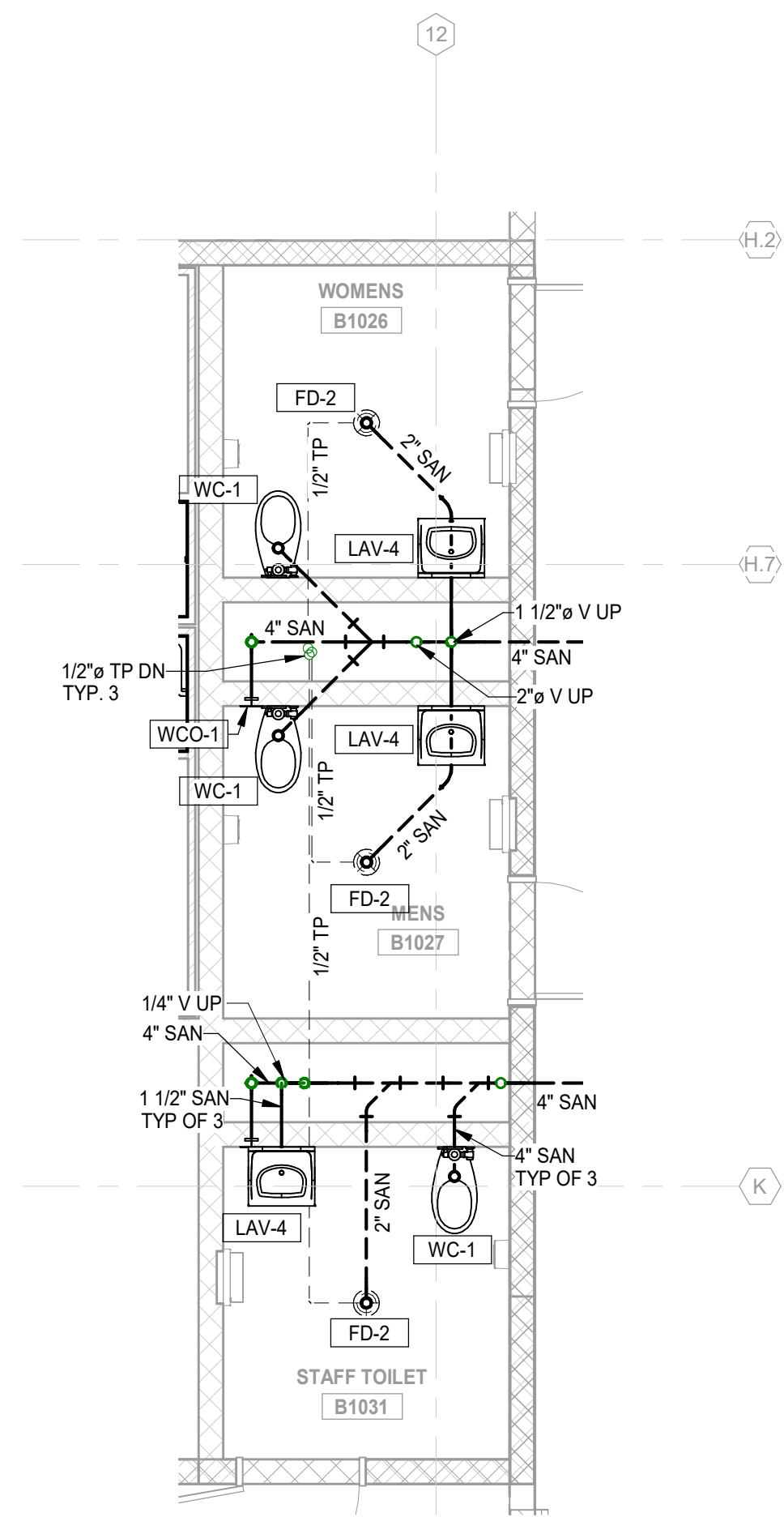
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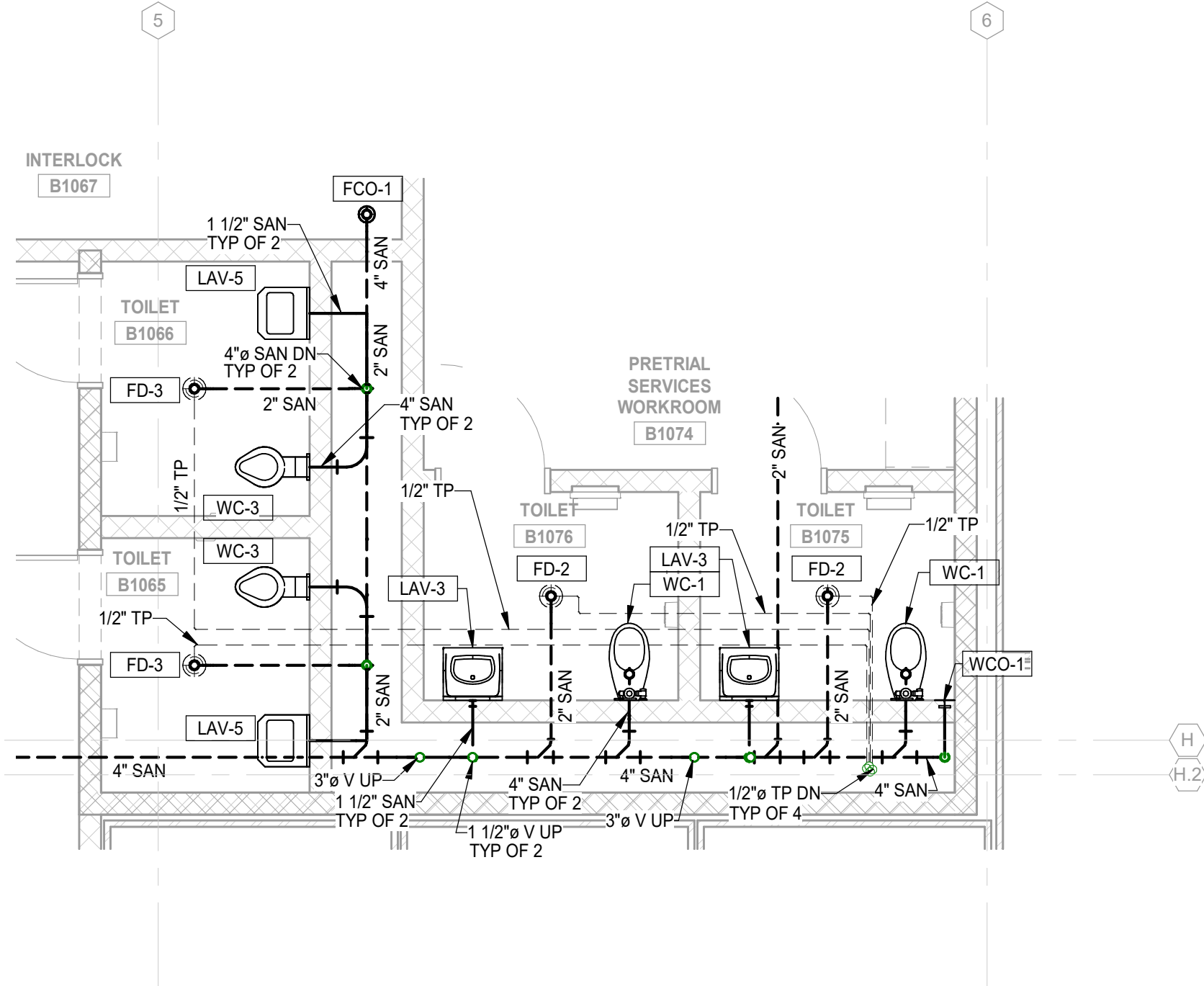


1 RISER DIAGRAM - B1095 MEDICAL & B1122 MEDICAL WAITING
P-305 SCALE: N.T.S.

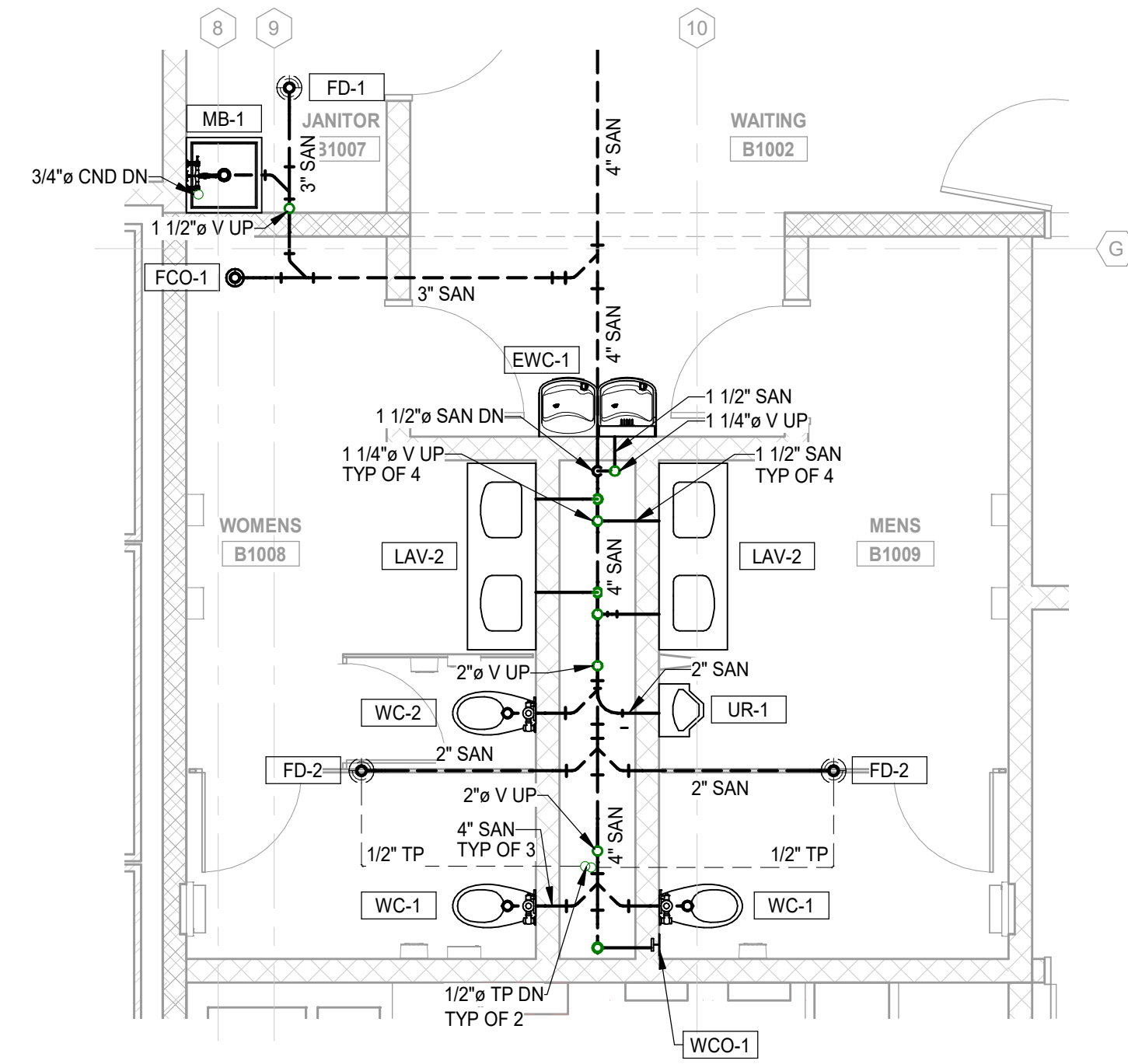
2 RISER DIAGRAM - B1053 INTAKE CENTER
P-305 SCALE: N.T.S.



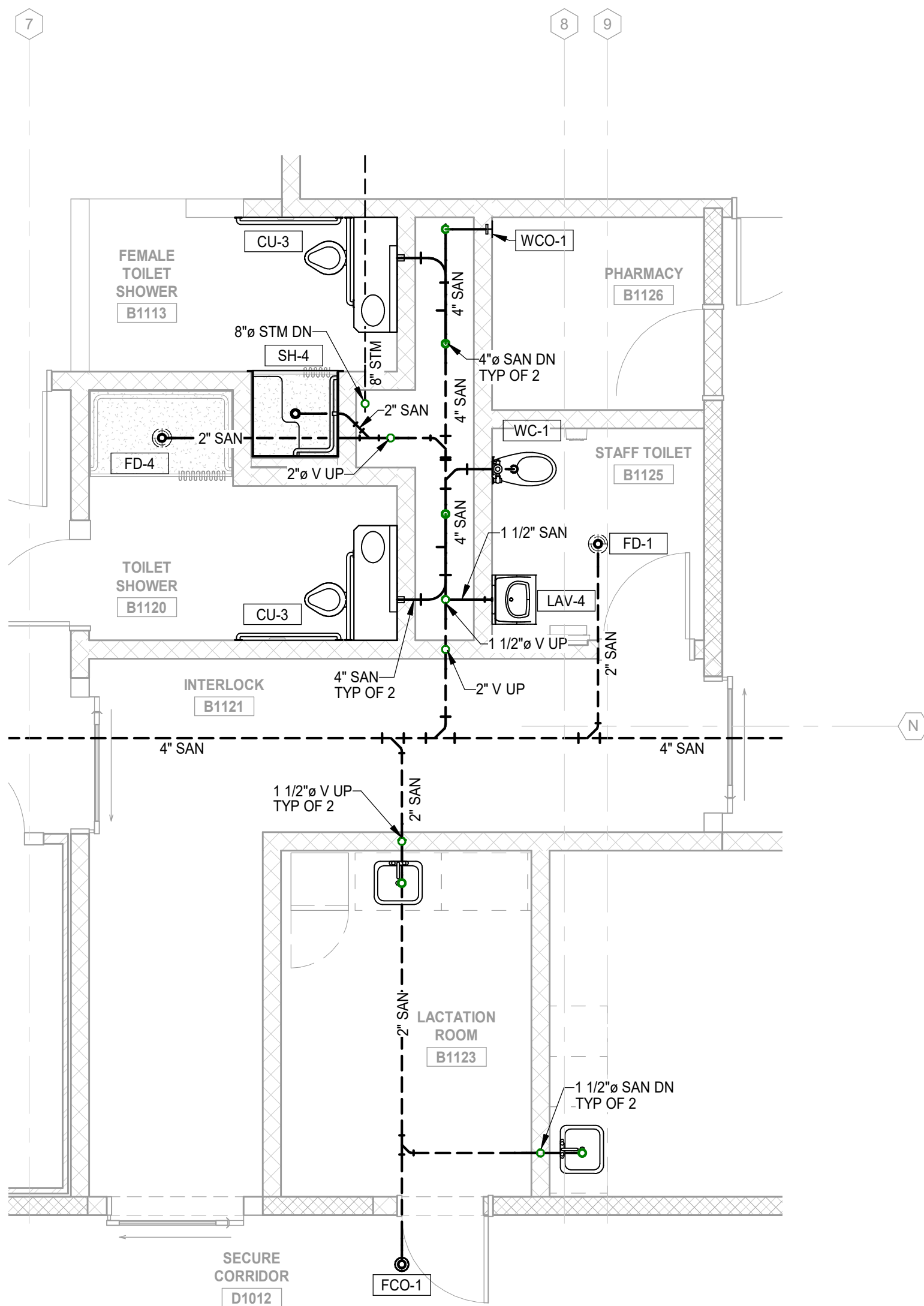
3 UNDERFLOOR PLAN - WOMENS B1026, MENS B1027, & STAFF TOILET B1031
P-401 SCALE: 1/4" = 1'-0"
NORTH



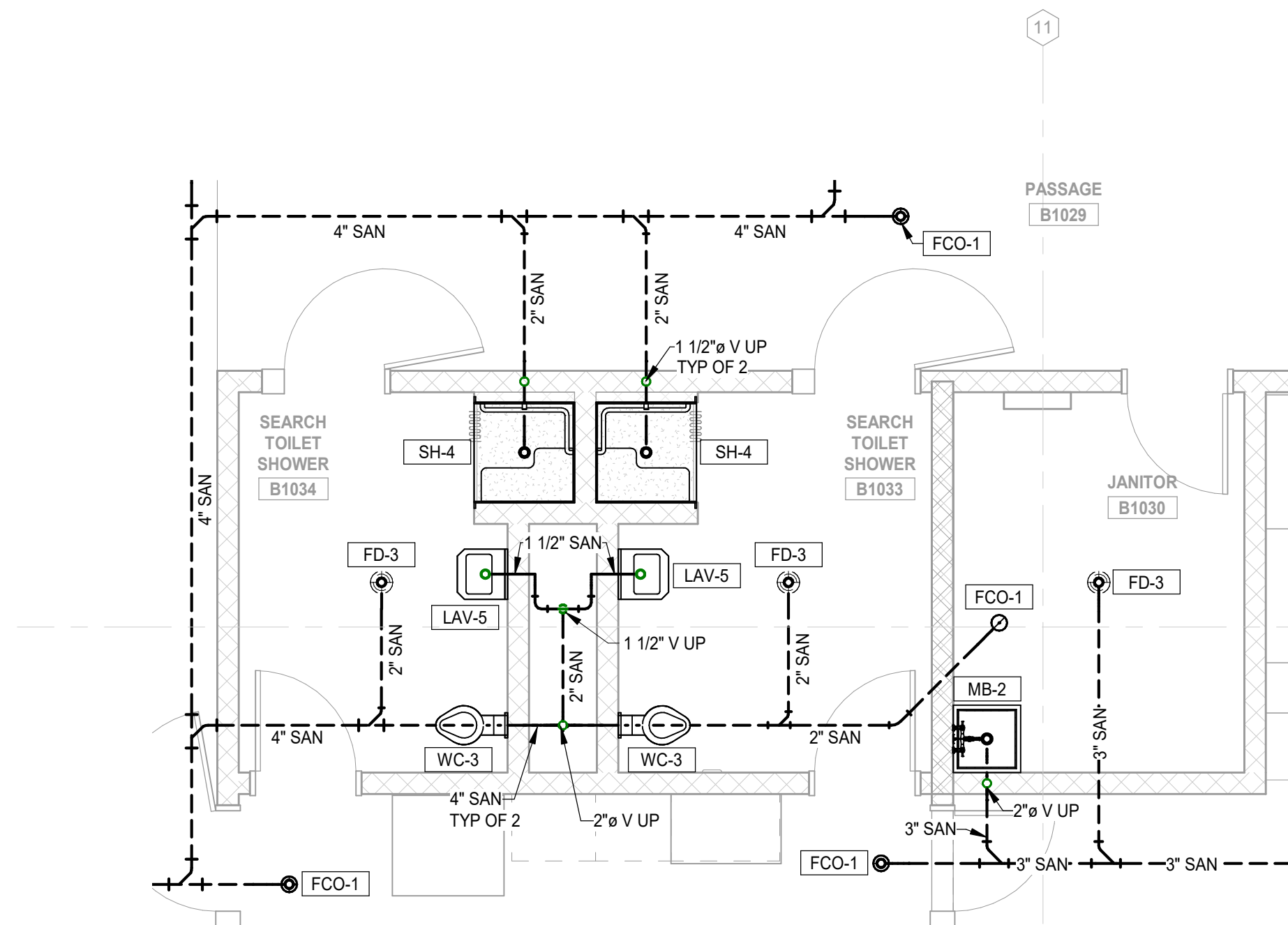
2 UNDERFLOOR PLAN - TOILET B1065, B1066, B1075, & B1076
P-401 SCALE: 1/4" = 1'-0"
NORTH



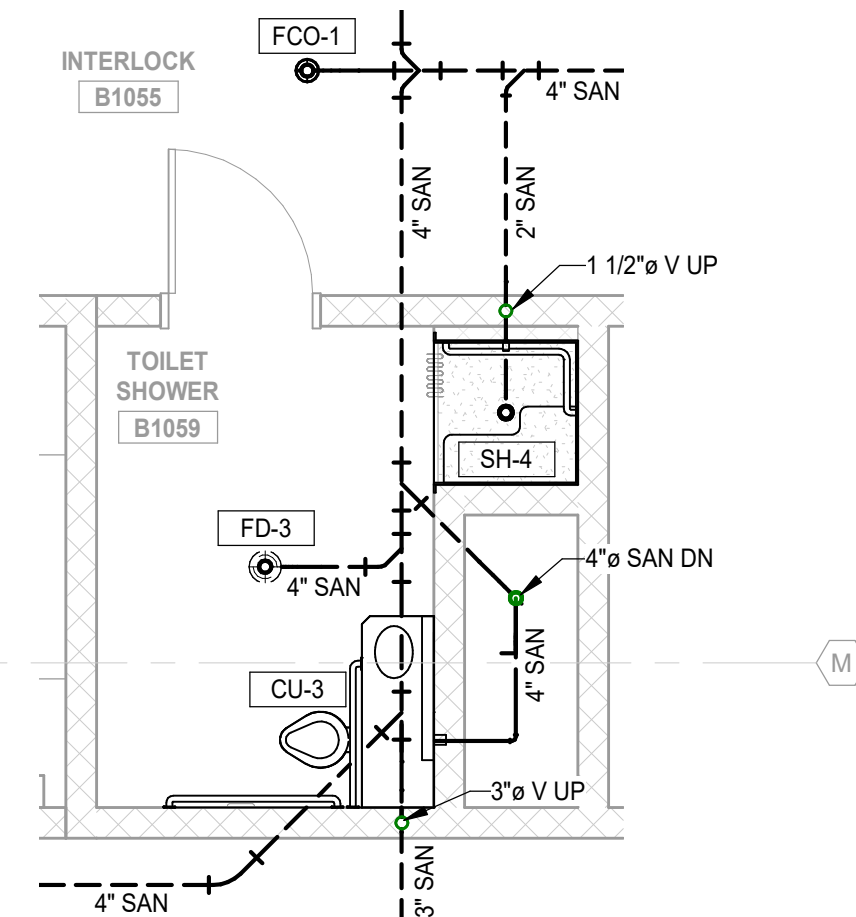
1 UNDERFLOOR PLAN - JANITOR B1007, WOMENS B1008, & MENS B1009
P-401 SCALE: 1/4" = 1'-0"
NORTH



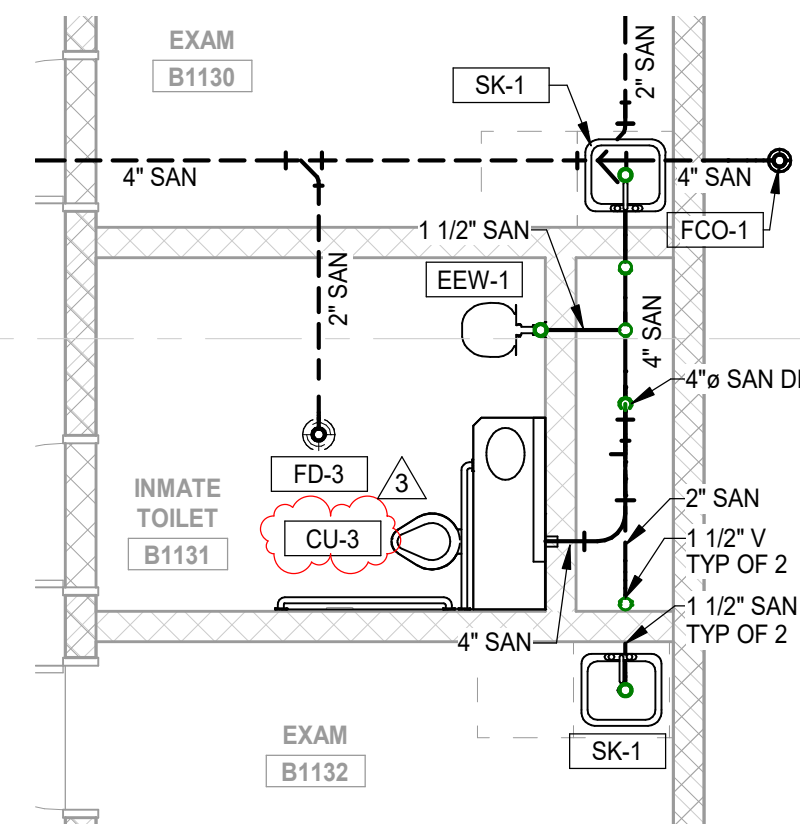
6 UNDERFLOOR PLAN - FEMALE TOILET SHOWER B1113, TOILET SHOWER B1120, & STAFF TOILET B1125
P-401 SCALE: 1/4" = 1'-0"
NORTH



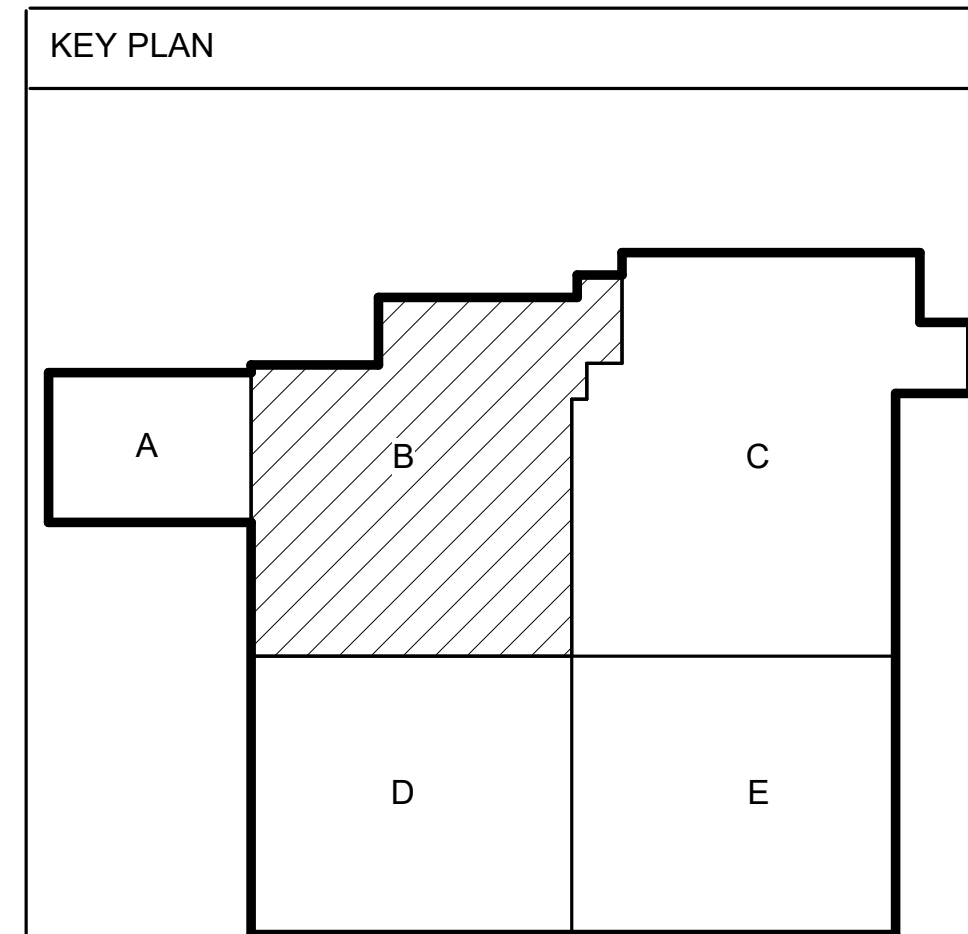
5 UNDERFLOOR PLAN - SEARCH TOILET SHOWER B1033, & B1034
P-401 SCALE: 1/4" = 1'-0"
NORTH

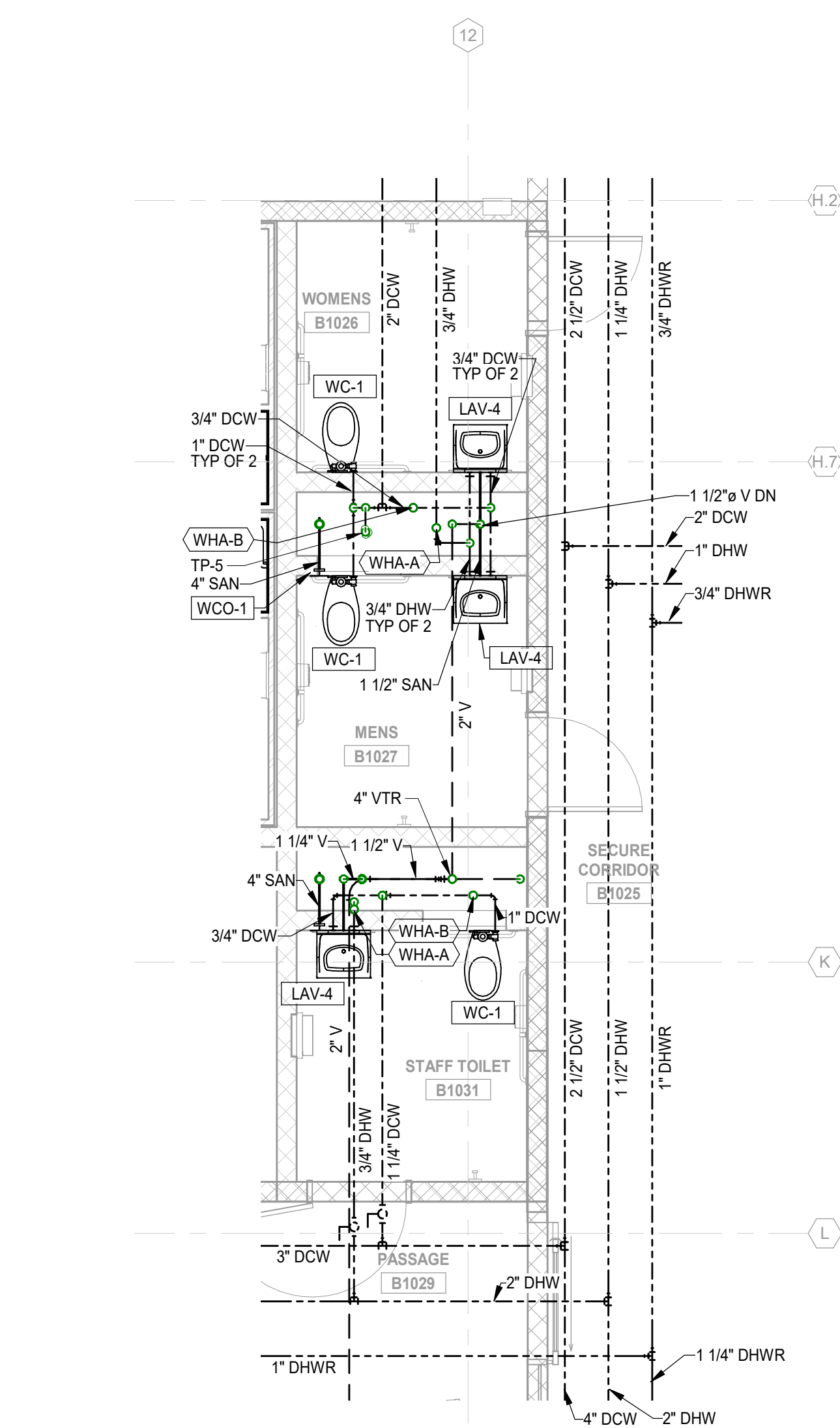


4 UNDERFLOOR PLAN - TOILET SHOWER B1059
P-401 SCALE: 1/4" = 1'-0"
NORTH



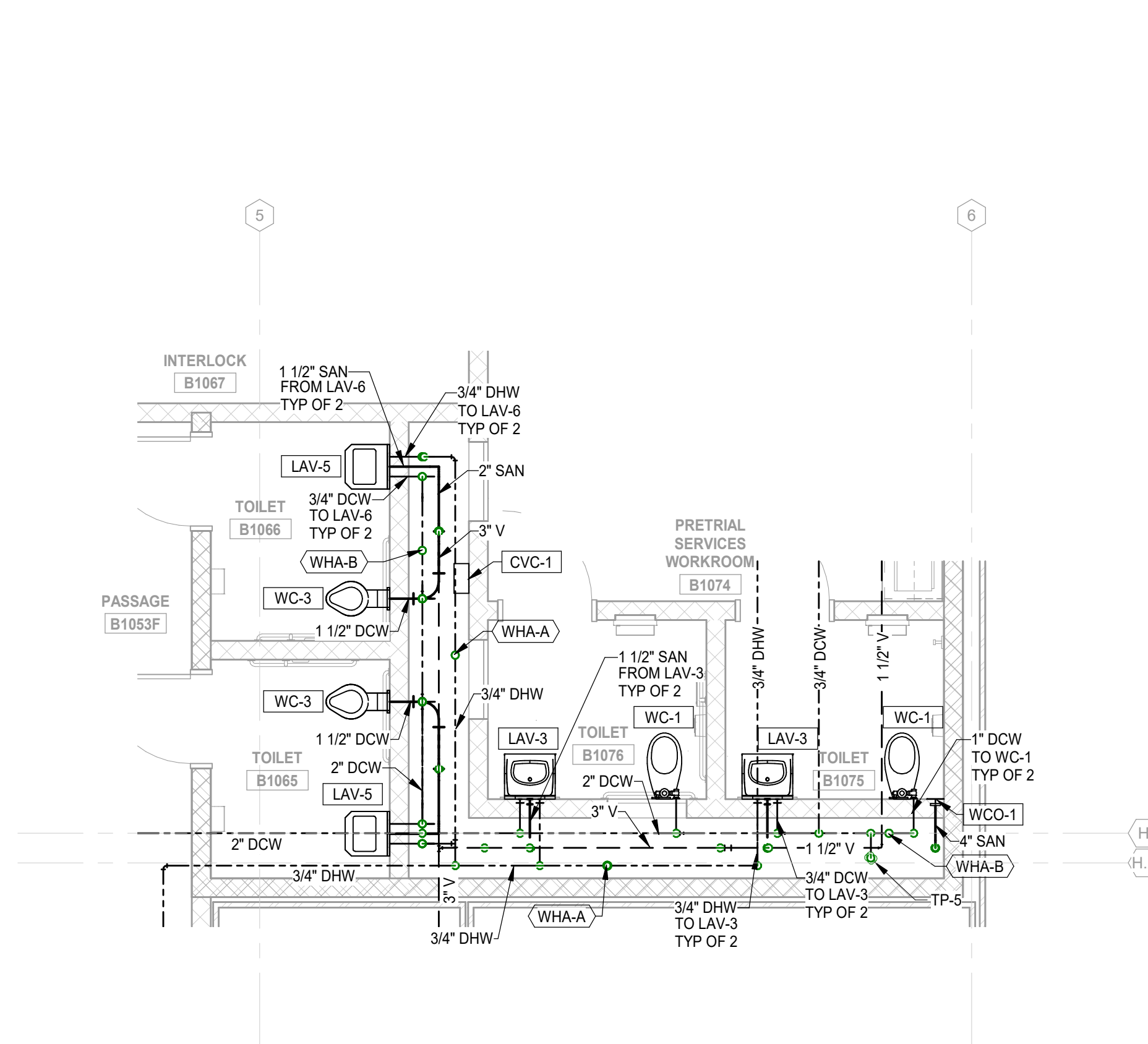
7 UNDERFLOOR PLAN - EXAM B1130, B1132, & INMATE TOILET B1131
P-401 SCALE: 1/4" = 1'-0"
NORTH



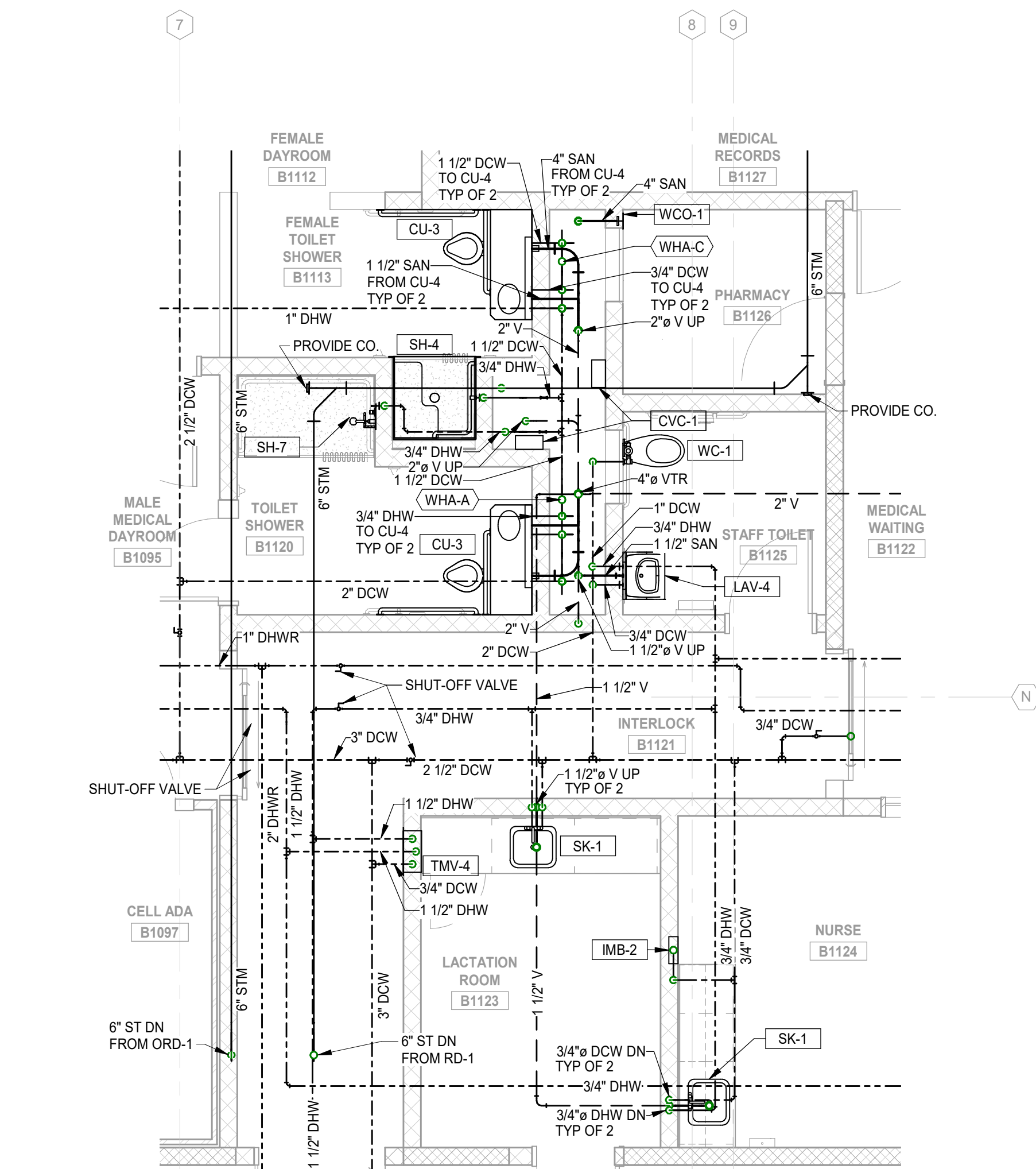
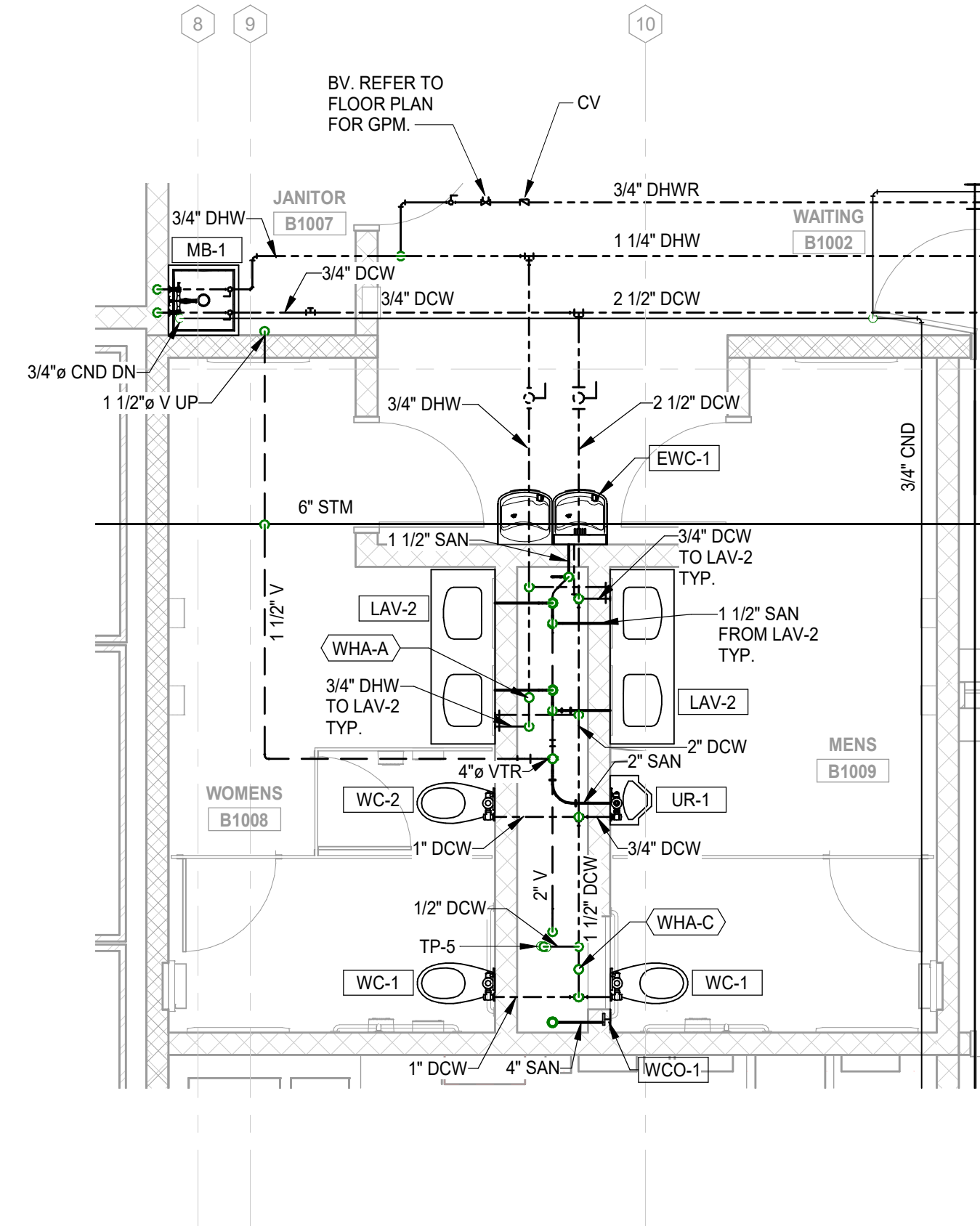


3 FIRST FLOOR PLAN - WOMENS B1026, MENS B1027, & STAFF TOILET B1031
P-404 SCALE: 1/4" = 1'-0"

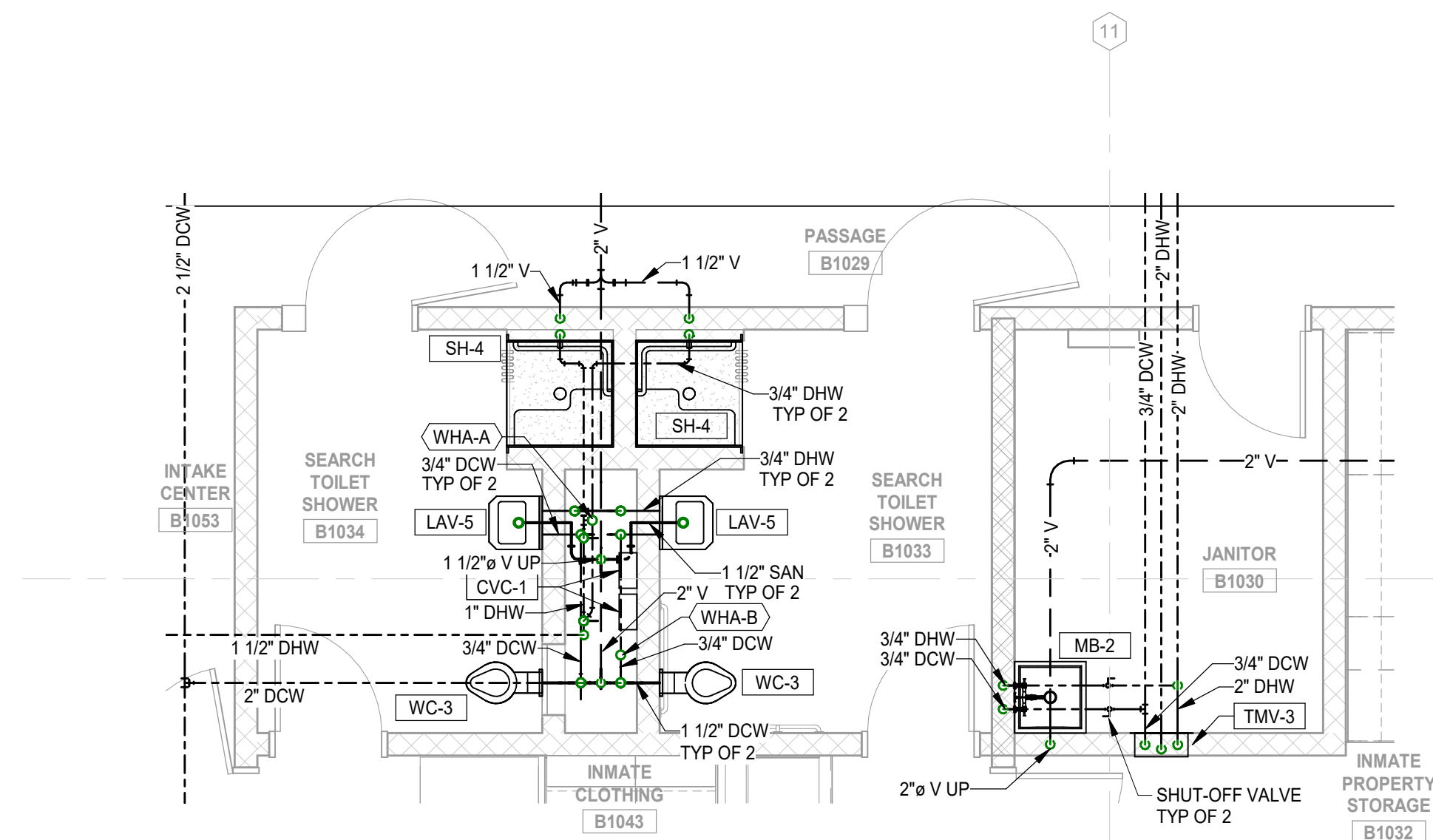
2 FIRST FLOOR PLAN - TOILET B1065, B1066, B1075, & B1076
P-404 SCALE: 1/4" = 1'-0"



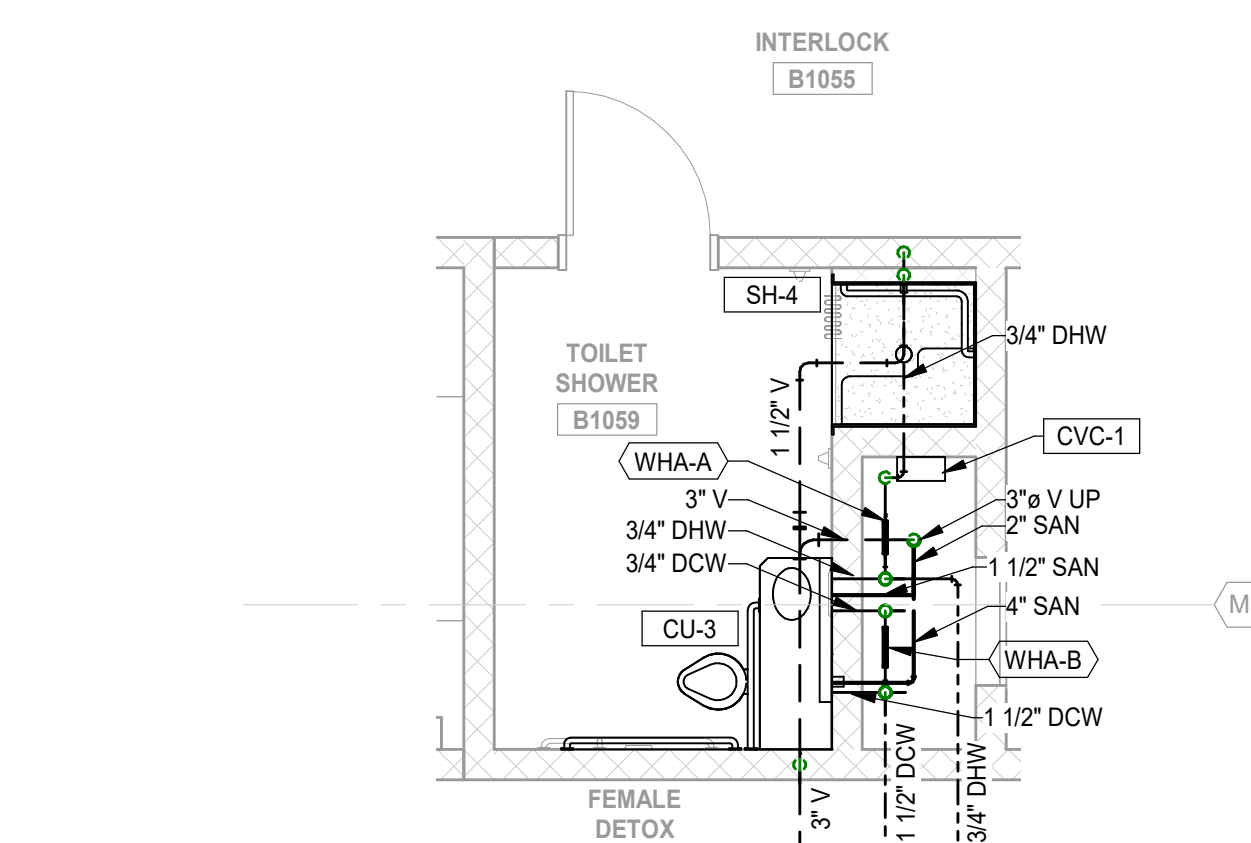
1 FIRST FLOOR PLAN - JANITOR B1007, WOMENS B1008, & MENS B1009
P-404 SCALE: 1/4" = 1'-0"



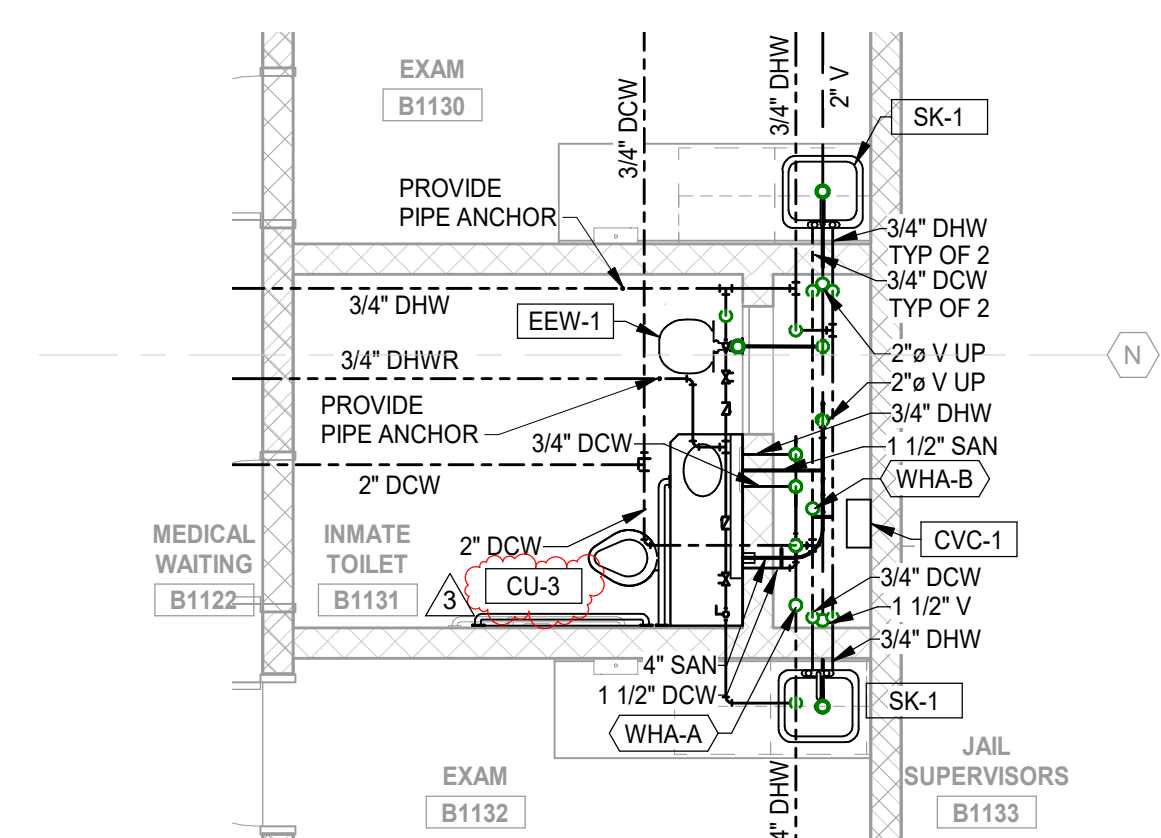
6 FIRST FLOOR PLAN - FEMALE TOILET SHOWER B1113, TOILET SHOWER B1120, & STAFF TOILET B1125
P-404 SCALE: 1/4" = 1'-0"



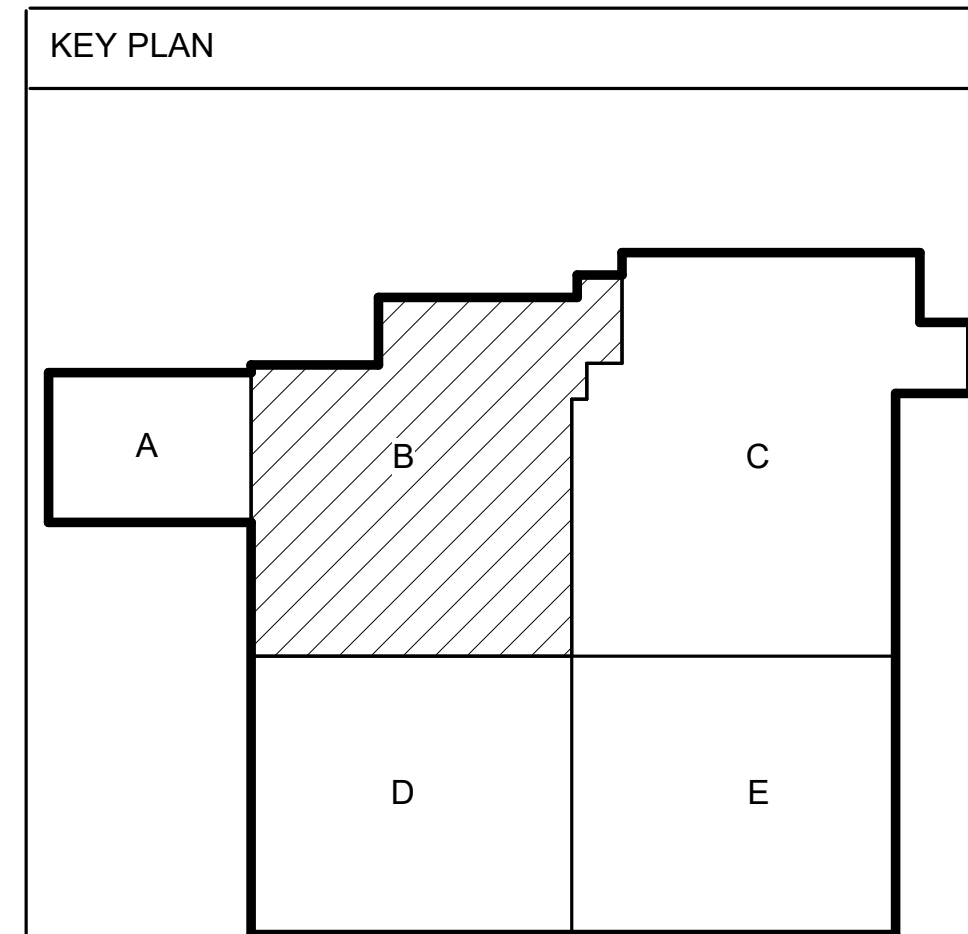
5 FIRST FLOOR PLAN - SERACH TOILET SHOWER B1033, & B1034
P-404 SCALE: 1/4" = 1'-0"



4 FIRST FLOOR PLAN - TOILET SHOWER B1059
P-404 SCALE: 1/4" = 1'-0"



7 EXAM B1130, B1132, & INMATE TOILET B1131
P-404 SCALE: 1/4" = 1'-0"



DLZ ARCHITECTURE • ENGINEERING • PLANNING SURVEYING • CONSTRUCTION SERVICES DLZ INDIANA, LLC	
VIGO COUNTY SECURITY CENTER TERRE HAUTE, INDIANA ENLARGED PLUMBING PLAN - AREA B	
DRAWING NUMBER P-404	PROJECT NUMBER 1663-1190-90
DATE 09/26/19	
REVISION 3 Addendum #103	
DRAWN BY: JAP CHECKED BY: JAP DESIGNED BY: JAP APPROVED BY: JAP DATE: September 5, 2019	

PLUMBING EQUIPMENT SCHEDULE														
TAG		DESCRIPTION	BASIS OF DESIGN	HP	RPM	VOLTAGE	PHASE CYCLE	SYSTEM HEAD	FLOW	REMARKS				
DWBP	1	DOMESTIC WATER BOOSTER PUMP: THREE (3) NSF CERTIFIED, END SUCTION PUMPS. PUMP CONSTRUCTION IS FORMED 304 STAINLESS STEEL WITH MECHANICAL SEAL CLOSE COUPLED TO A 3600 RPM, ODP, 3 PH, 60 CYCLE, 1.15 SERVICE FACTOR, CLASS F INSULATION, HIGH EFFICIENCY MOTOR. INCLUDE SUCTION AND DISCHARGE SIDE ISOLATING BUTTERFLY VALVES, CHECK VALVES, AND FLANGED SUCTION AND DISCHARGE HEADERS. INCLUDE CONTROL PANEL WITH NON-FUSED DISCONNECT, PLC OPERATION, SEQUENCING, DATA AND FAULT LOGS, ALARM HORN, TOUCHSCREEN, VARIABLE FREQUENCY DRIVES, PROVIDE 50 PSI PRESSURE INCREASE. (3)	BELL & GOSSETT TECHNOFORCE E-MT MODEL 66SV10GK4F60	15	3600	460	3	-	525 GPM	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ SET TO 70 PSI.				
HWRP	1	HOT WATER RECIRCULATION PUMP: HIGH EFFICIENCY ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECMPM). LEAD FREE BRONZE BODY DESIGNED FOR POTABLE WATER PLUMBING SYSTEMS. ALL OTHER WETTED PARTS STAINLESS STEEL.	BELL & GOSSETT ECOCIRC MODEL XL 65-130	1	2800	460	3	32 FT	35 GPM					
IWH	1	ELECTRIC INSTANTANEOUS WATER HEATER: WALL MOUNTED, INSTANTANEOUS WATER HEATER. FULL MODULATING PREDICTIVE CONTROL ALGORITHM AND DIVERSE SAFETY FEATURE FOR PRECISE TEMPERATURE CONTROL. FIELD PROGRAMMABLE, UPDATABLE FIRMWARE AND ADJUSTABLE TURN-ON. HIGH VISIBLE LCD DISPLAY AND CONTROL WITH BUILT IN DIAGNOSTICS. INCLUDE ELECTRICAL DISCONNECT AND GFCI RATING, 70 DEGREE TEMPERATURE RISE AT 2.5 GPM.	EEMAX MODEL AP036480-EDS-GFCI	36 kW		480	3	-	2.5 GPM	PROVIDE WITH SK-4				
RO	1	REVERSE OSMOSIS SYSTEM: PACKAGED SYSTEM SERVING KITCHEN EQUIPMENT. DELIVERS 6000 GALLONS PER DAY OF RO WATER. SYSTEM INCLUDED RO UNIT, PRE AND POST FILTERS, SYSTEM PUMP, 500 GALLON STORAGE TANK, SEDIMENT PRE-FILTER, REMINERALIZED RO WATER TANK, AND DELIVERY PUMP. PROGRAMMABLE WATER QUALITY (TDS) AND RECOVERY RATE DIGITALLY MEASURED AND ALARMED IF OUT OF SPECIFICATION. COLLECTS AND STORES DATA ON USAGE, FILTER LIFE, AND RECOVERY RATE. INCLUDE AUTOMATIC BYPASS OPTION.	EASYWATER SMARTGUARD RO MODEL S60000			208	1	-	-	CARBON PRE-FILTER REQ'S 110V OUTLET. SEE DETAIL 4/P-502. PROVIDE STARTER.				
SP	1	SUMP PUMP: CAST IRON SWITCH CASE, BASE, MOTOR AND PUMP HOUSING WITH POWDER COATED EPOXY FINISH. STAINLESS STEEL SCREWS, GUARD, HANDLE, ARM AND SEAL ASSEMBLY, OIL FILLED AND HERMETICALLY SEALED TO PREVENT OVERHEATING. CERAMIC SHAFT SEAL. 2" DIA. DISCHARGE AND VENT. 30" DIA X 36" DEPTH BASIN WITH 4" DIA INLET 10" TO BE FIBERGLASS.	ZOELLER MODEL N264 DUPLEX WITH BASIN PART NUMBER 33-2276	4/10	1725	115	1	10 FT	60 GPM	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ PROVIDE WITH GALVANIZED RAILS. DISCHARGE PIPING WITH SHUTOFF AND CHECK VALVES. DUPLEX ALTERNATING CONTROL PANEL, AND THREE FLOAT SWITCHES.				
SP	2	SUMP PUMP: SERVING FOUNDATION PERIMETER DRAIN, CAST IRON PUMP BODY, 60 Hz MOTOR, AUTOMATIC FLOAT OPERATED MECHANICAL SWITCH, 36" DIA X 60" DEPTH SUMP BASIN WITH 4" DIA. INLET TO BE GLASS FILLED POLYPROPYLENE BASE WITH BUILT-IN STRAINER, BASIN COVER, BOLT FASTENING CAPABILITY, 2" VENT, 2" DISCHARGE OUTLET.	ZOELLER MODEL N262 DUPLEX WITH QLS SERIES	1/2	1725	115	1	10 FT	21 GPM	PROVIDE WITH GALVANIZED RAILS. DISCHARGE PIPING WITH SHUTOFF AND CHECK VALVES. DUPLEX ALTERNATING CONTROL PANEL, AND THREE FLOAT SWITCHES.				
WH	1	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.				
WH	2	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.				
WH	3	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.				
WH	FTR	FUTURE WATER HEATER	FUTURE WATER HEATER	-		-	-	-	-	FUTURE WATER HEATER				
WS	1	TRIPLEX WATER SOFTENER: US FDA APPROVED DFT WITH AN EPOXY PHENOLIC COATED TANK, TRIPLEX UNIT, PROGRESSIVE FLOW. ONE (1) BRINE TANK, AUTOMATIC CONTROLS, EACH MINERAL TANK RATED FOR 183 PSIG CONTINUOUS FLOW AT 15-PSIG DROP, 252 GPM PEAK FLOW AT 25-PSIG DROP, 3" MANIFOLD PIPE-THREE (3) 30"x20" TANKS AND ONE (1) 48"x20" BRINE TANK, 400 KGR MINIMUM AT 120 LBS SALT, AND 600 KGR MAXIMUM AT 300 LBS SALT CAPACITY.	CULLIGAN CSM 600-3 WITH BRINE RECLAIM KIT MODEL MVP	-		120	1	-	350 GPM					

WATER HAMMER ARRESTOR SCHEDULE			
TYPE	FIXTURE UNIT RATING	I.P.S.	MODEL (J.R. SMITH)
WHA-A	1-11	3/4"	5005
WHA-B	12-32	1"	5010
WHA-C	33-60	1"	5020

NATURAL GAS PRESSURE REDUCING VALVE SCHEDULE (ALTERNATE BID)						
TYPE	MARK	CFH	INLET PRESSURE (PSI)	OUTLET PRESSURE (IN WC)	MANUFACTURER/MODEL	NOTES
PRV	1	5,400	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	2	7,500	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	3	330	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	4	3,050	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	5	1,260	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	6	50	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	7	330	2	13	SENSUS / MODEL 243-B-2	REFER TO DETAIL 6/P-501.

NATURAL GAS PRESSURE REDUCING VALVE SCHEDULE (BASE BID)						
TYPE	MARK	CFH	INLET PRESSURE (PSI)	OUTLET PRESSURE (IN WC)	MANUFACTURER/MODEL	NOTES
PRV	1	5,400	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	2	7,500	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	3	330	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	4	3,050	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	5	1,260	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	6	50	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	7	600	2	13	SENSUS / MODEL 243-B-2	REFER TO DETAIL 6/P-501.

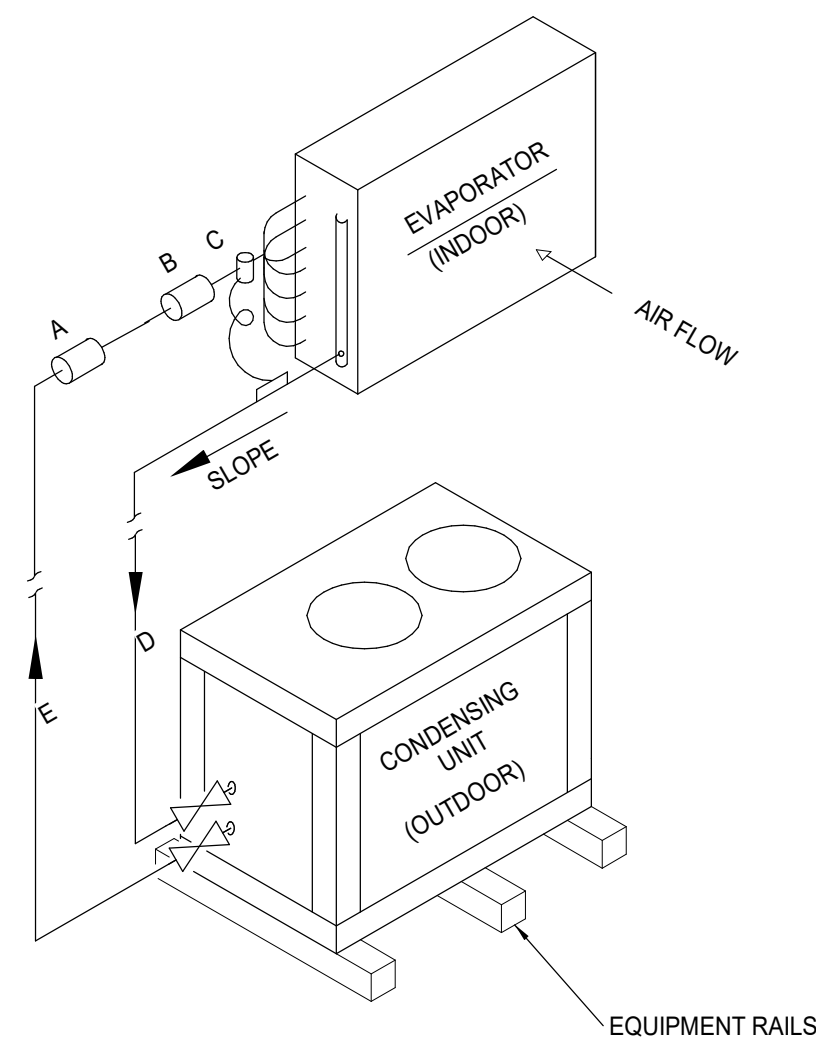
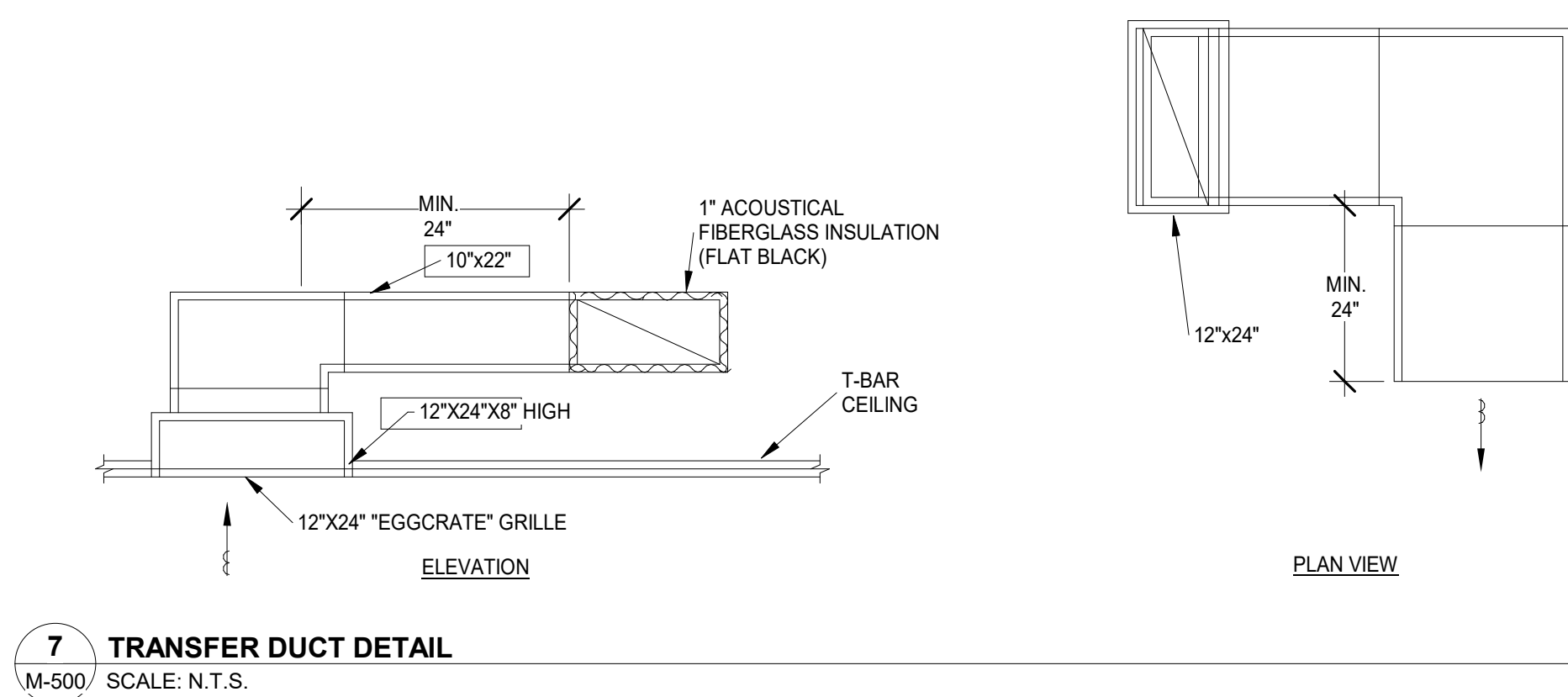
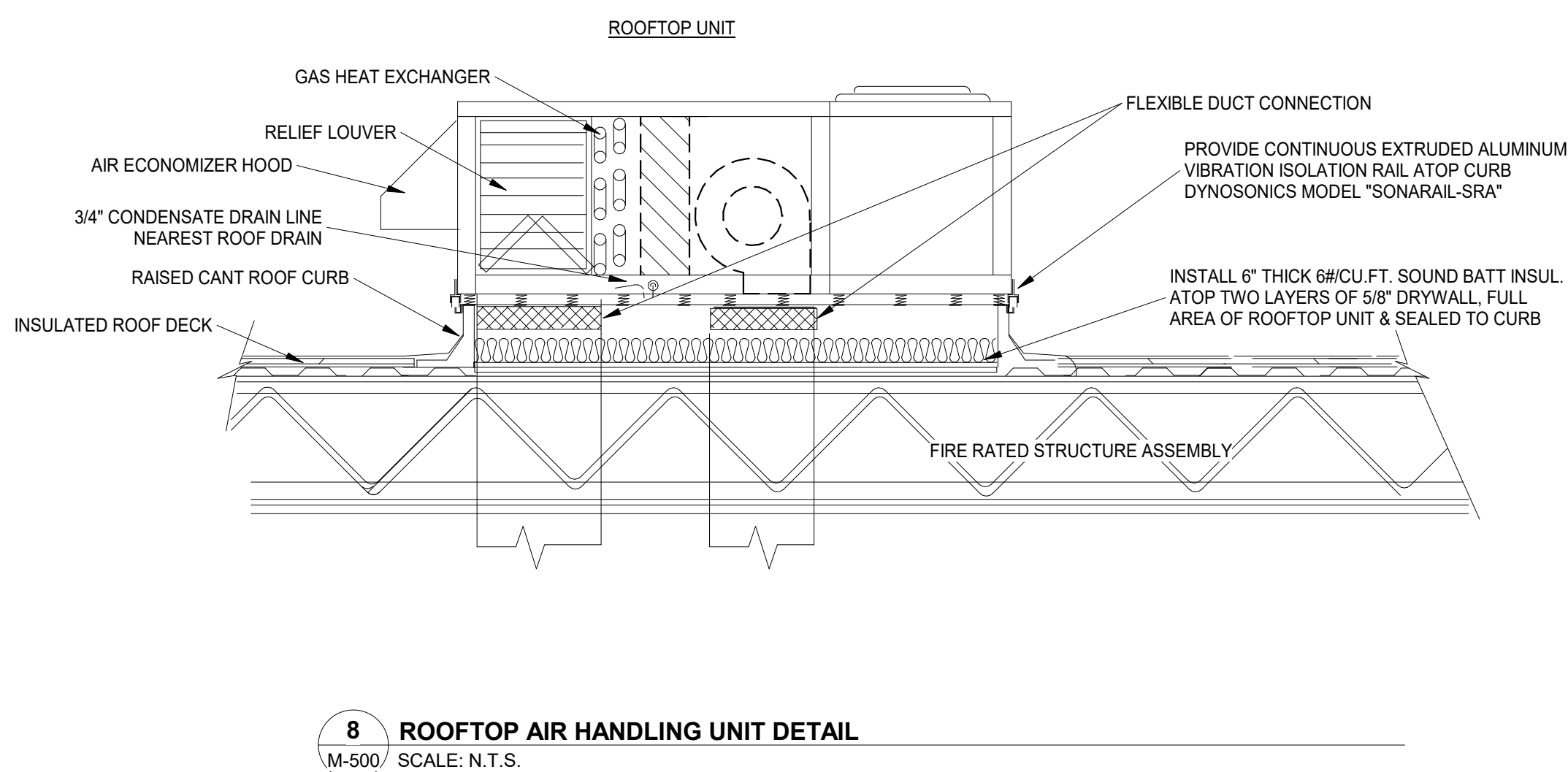
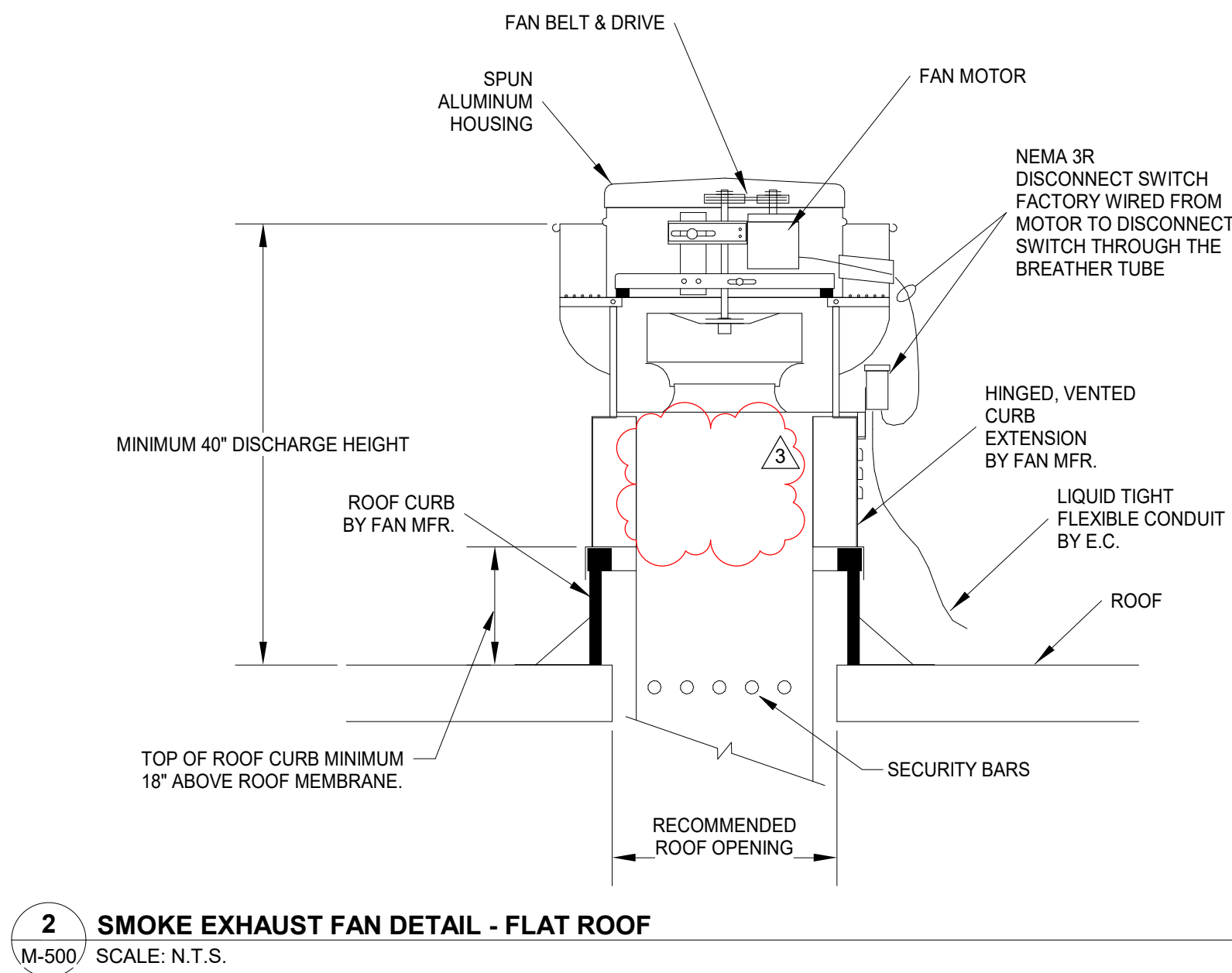
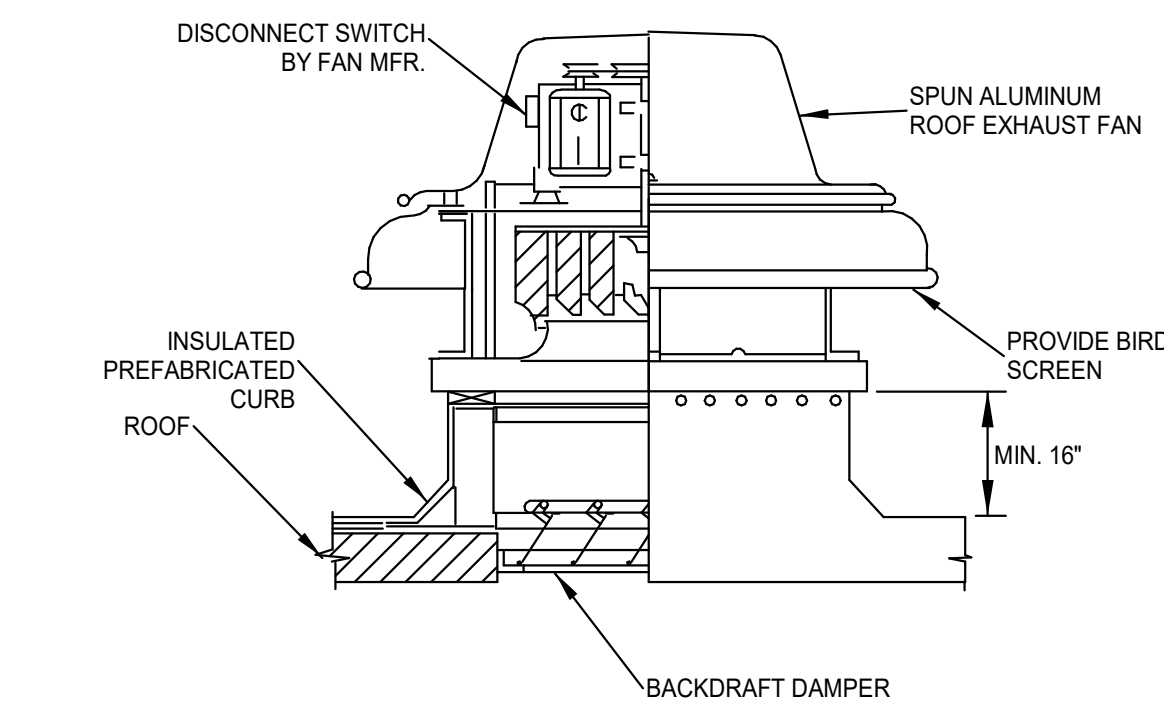
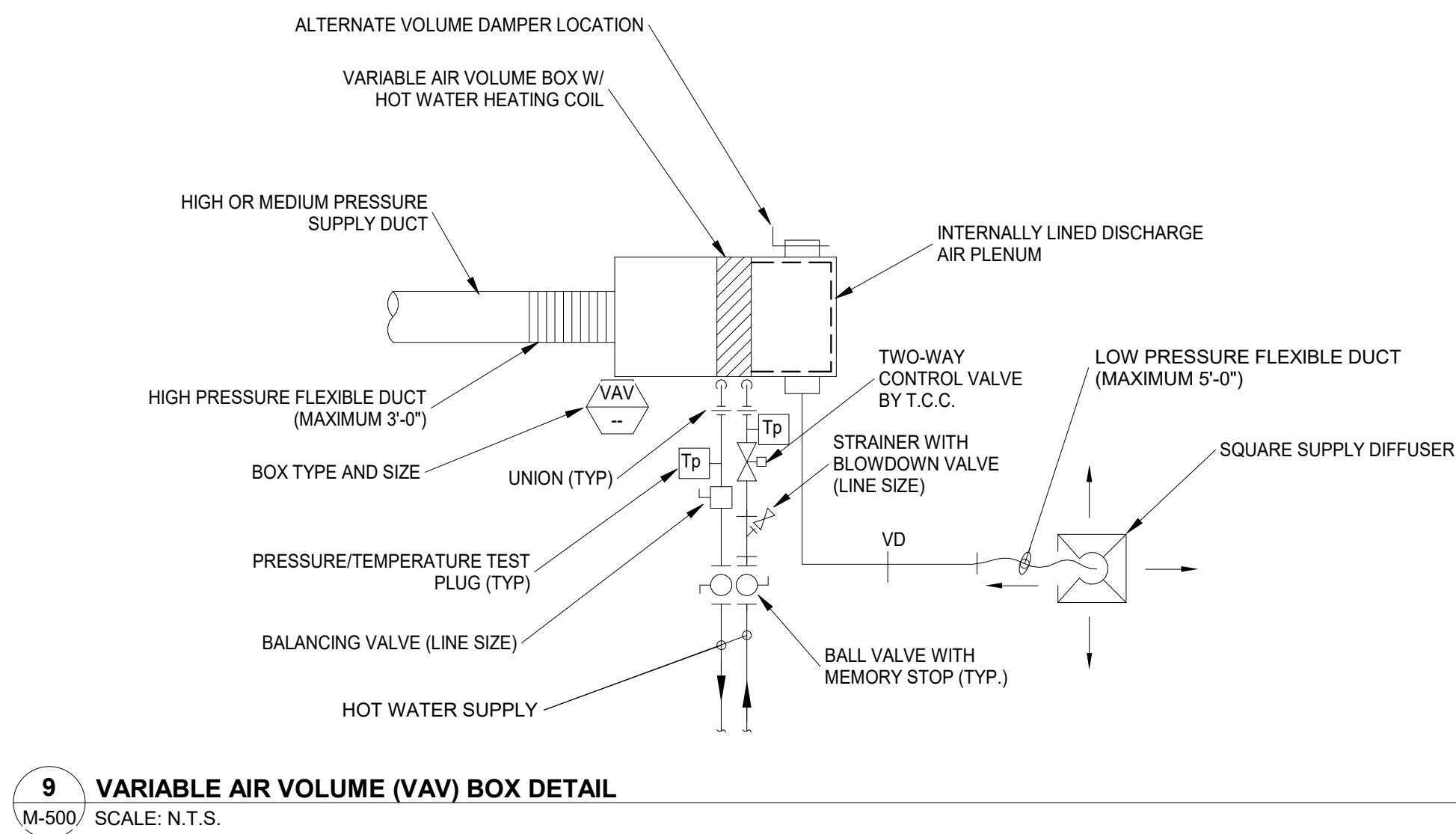
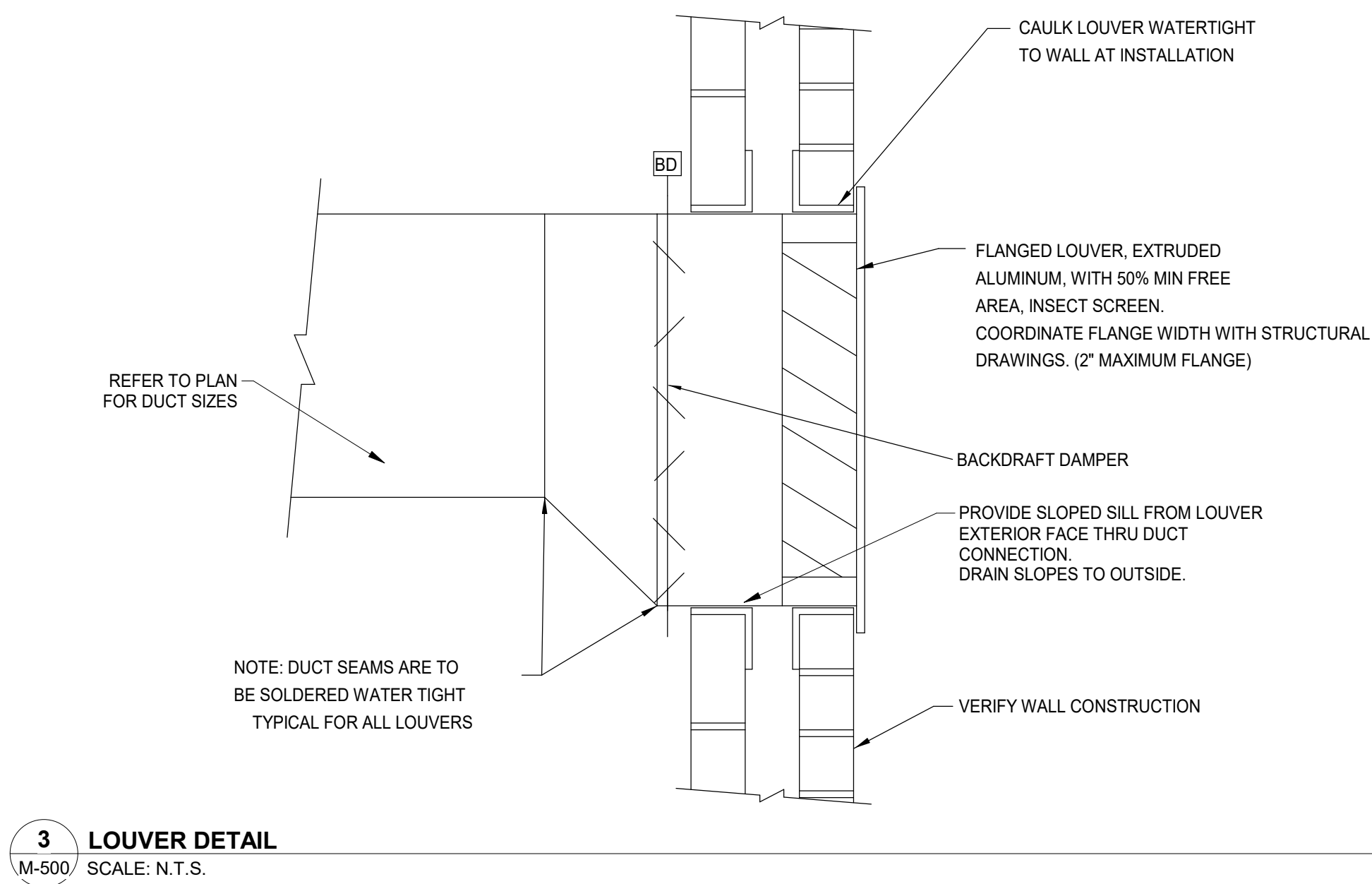
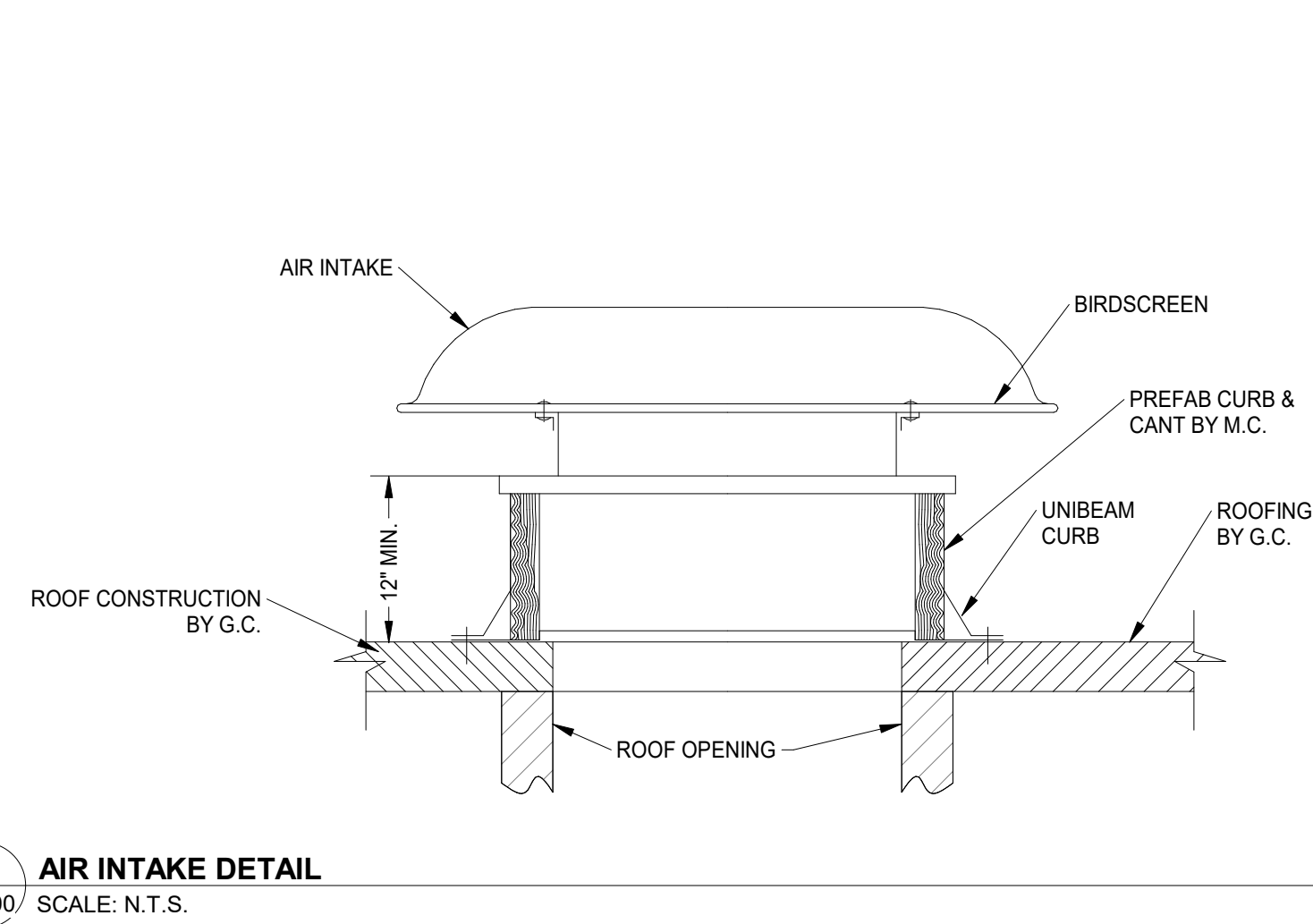
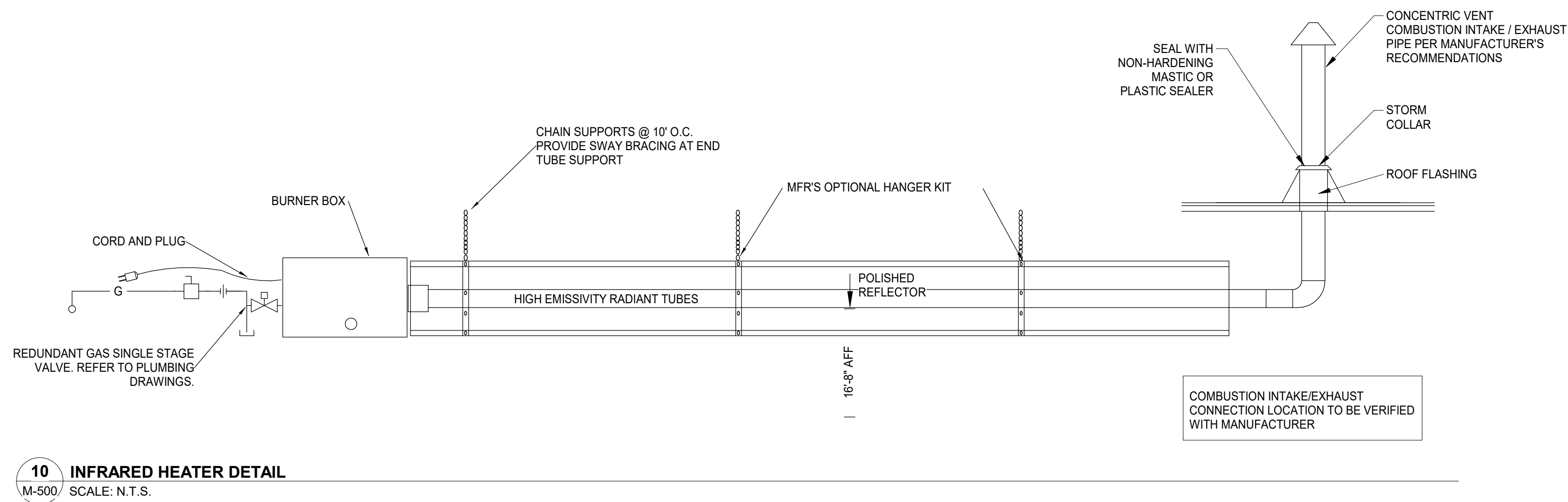
THERMOSTATIC MIXING VALVE SCHEDULE							
TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER	FLOW RATE	PRESSURE DROP	ELECTRICAL REQ	REMARKS
TMV-1	DIGITAL THERMOSTATIC MIXING VALVE MANIFOLD	ASSE 1017 MASTER DIGITAL MIXING VALVE MANIFOLD FOR POTABLE WATER. ONE (1) MIXING VALVE. MIXING VALVE HAVE INTEGRAL RTD SENSOR PER VALVE AND ADDITIONAL SENSORS FOR INLET HOT WATER, INLET COLD WATER, AND RETURN WATER TEMPERATURE PER VALVE. INTEGRAL PRESSURE SENSORS FOR INLET HOT WATER AND INLET COLD WATER PER VALVE. MANIFOLD ASSEMBLY WITH 3" INLETS, 3" OUTLET, AND 3" RETURN PIPING INLET AND OUTLETS. 0.25 GPM MINIMUM FLOW CAPACITY. AUTOMATIC HOT/COLD SHUTOFF UPON HOT/COLD WATER INLET SUPPLY FAILURE. USER PROGRAMMABLE FOR ON-SITE CONFIGURATION, HIGH-TEMP SANITIZATION MODE, AND HIGH/LOW TEMPERATURE ALARM. PROVIDE INTERFACE WITH BUILDING MANAGEMENT SYSTEM. DISPLAY OUTLET TEMPERATURE WITH OPTIONS TO DISPLAY 4 ADDITIONAL TEMPERATURE INPUTS, 1 FLOW CHANNEL INPUT, AND 1 CONFIGURABLE FLOW OR PRESSURE. UL LISTED 120V PLUG IN POWER SUPPLY WITH 6' CORD (1 PER VALVE). FACTORY ASSEMBLED AND TESTED.	LEONARD MODEL NV-300-LF	180	10 PSI	120 V	SET TO 115°F
TMV-2	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON OUTLET. INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT. TEMPERATURE CONTROL DOWN TO 0.5 GPM. COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LEONARD MODEL XL-690-LF-DT	30	20 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR
TMV-3	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE WITH RECESSED CABINET ASSEMBLY. DIAL THERMOMETER ON OUTLET. INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS, TEMPERATURE CONTROL DOWN TO 0.5 GPM. COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LEONARD MODEL XL-186-690-LF	40	20 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR ■ PROVIDE TOP INLET ■ PROVIDE WITH RECESSED CABINET.
TMV-4	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE WITH RECESSED CABINET ASSEMBLY. DIAL THERMOMETER ON OUTLET. INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS, TEMPERATURE CONTROL DOWN TO 0.5 GPM. COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LEONARD MODEL 369-LF-STSTL	30	15 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR ■ PROVIDE TOP INLET ■ PROVIDE WITH RECESSED CABINET.



NO.	REVISION	DATE
3	Addendum #103	09/26/19

DRAWN: KB	CHECKED: JRA	DESIGNED: KB	APPROVED: JRA
DATE: September 5, 2019	PROJECT NUMBER	1663-1190-90	

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- NOTES:**
- ALL PIPING AND PIPING COMPONENTS BY M.C.
 - PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" IN 10 FEET IN THE DIRECTION OF REFRIGERANT FLOW.
 - INSULATE ALL SUCTION LINES.
 - UNIT MANUFACTURER SHALL PROVIDE REFRIGERANT PIPING SCHEMATIC INCLUDING ALL LINES AND VALVE SIZES AND EXACT LINE ROUTING.
- LEGEND:**
- A. FILTER-DRIER
 - B. SIGHTGLASS/MOISTURE INDICATOR
 - C. THERMAL EXP. VALVE
 - D. SUCTION LINE, PITCHED TOWARD COMPRESSOR
 - E. LIQUID LINE

