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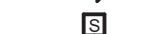






















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DEMOLITION NOTES
1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN (UNLESS INDICATED TO REMAIN).
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
10. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
12. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.

GENERAL NOTES
GENERAL
1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 22.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR PLUMBING WORK.
5. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
6. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
7. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AROUND OBSTRUCTIONS.
8. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. OBTAIN APPROVAL FOR ALL PANEL LOCATIONS FROM ARCHITECT.
9. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, CLEAN OUTS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURERS RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
10. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
11. IN COMPLIANCE WITH THE FEDERAL SAFE WATER DRINKING ACT (SWDA), THE CONTRACTOR SHALL NOT PROVIDE ANY COMPONENTS IN THE DOMESTIC WATER SYSTEM THAT CONTAIN MORE THAN 0.2% LEAD OR ANY WETTED PARTS. THE CONTRACTOR SHALL PROVIDE THE LEAD FREE EQUIVALENT OF ANY EQUIPMENT SPECIFIED AND PROVIDE A LETTER CERTIFYING THAT ALL PLUMBING PRODUCTS PROVIDED MEET THIS REGULATION.
12. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE PLUMBING AND FUEL GAS CODE. THE CONTRACTOR SHALL COORDINATE WITH THE INSPECTOR FOR ALL PLUMBING INSPECTIONS.
13. IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN PIPE SIZES SHOWN ON THE PLANS, DETAILS AND DIAGRAMS, THE LARGER PIPE SIZE SHALL BE FOLLOWED.
PIPING SYSTEM SPECIFIC NOTES:
1. PROVIDE ESCUTCHEONS AT EXPOSED PIPE PENETRATIONS OF CEILINGS AND WALLS
2. TOPS OF FLOOR DRAINS SHALL BE FLUSH WITH FINISHED FLOOR.
3. PROVIDE SHUT-OFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT.
4. SUPPORT PIPING FROM STRUCTURE. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
5. PROVIDE DRAIN WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP AND CHAIN AT DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
6. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF ALL STACKS.
7. ALL PLUMBING PIPING AND DRAINS SHALL BE PROTECTED FROM DEBRIS AND KEPT CLEAR OF BLOCKAGE DURING CONSTRUCTION.
8. PROVIDE DIELECTRIC FITTINGS WHEN JOINING PIPES OF DISSIMILAR METALS.
NATURAL GAS NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS FOR THE WORK.
2. PROVIDE DRIP POCKET AT THE BOTTOM OF ALL GAS RISERS.
3. ALL GAS PIPING TO COMPLY WITH STATE AND LOCAL CODES.
4. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE STATE REGULATORY BOARD.
5. PROVIDE GAS COCK VALVE AT EACH BRANCH RUNOUT FROM THE MAIN RISER SERVING GAS OUTLETS AND AT EACH INDIVIDUAL GAS FIXTURE.
6. GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE FUEL GAS CODE AND NATIONAL CODE PROVISIONS OF THE LOCAL PLUMBING INSPECTOR. IF INSPECTION AND TEST SHOWS DEFECTS, DEFECTIVE WORK AND MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REDONE.
FIRESTOPPING NOTES:
1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUITS AND OTHER PENETRATING ITEMS. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

VALVE AND SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	Y-PATTERN STRAINER
	SOLENOID VALVE
	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	GATE VALVE IN ROAD CURB BOX
	BACKWATER VALVE
	PUMP
	WATER METER
	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
	ROOF / OVERFLOW DRAIN
	TRAP PRIMER
	GAS METER
	WATER HAMMER ARRESTOR
	VENT THRU ROOF
	ADA ACCESSIBLE FIXTURE
	CONNECT TO EXISTING

PIPING LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
	SANITARY DRAIN/WASTE ABOVE FLOOR
	SANITARY DRAIN/WASTE BELOW FLOOR
	VENT
	STORM ABOVE FLOOR (PRIMARY)
	STORM BURIED (PRIMARY)
	STORM ABOVE FLOOR (SECONDARY)
	NATURAL GAS
	MEDICAL VACUUM
	MEDICAL AIR
	MEDICAL AIR (SIMULATED OXYGEN)
	FORCE MAIN ABOVE FLOOR
	FORCE MAIN BELOW FLOOR
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	PIPE TRAP
	DIRT LEG
	CLEANOUT
	UNION OR FLANGE
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC)
	REDUCER (CONCENTRIC)

GENERAL ABBREVIATIONS	
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AUTH	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AV	ACID VENT
LVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DIRECT WASTE
ELEC	ELECTRICAL
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWS	EMERGENCY EYEWASH/SHOWER
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FE	FINISHED FLOOR ELEVATION
FGCO	FINISHED GRADE CLEANOUT
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FS	FLOOR SINK
FT	FEET
FT WG	FEET HEAD
G	GAS
GALL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSM	GAS SOLENOID VALVE
GV	GREASE WASTE
GW	GAS VENT
HB	HOSE BIB
HW	HOT WATER
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ
HWR	HOT WATER RECIRCULATION
INT	INTERCEPTOR
INV ELEV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	OVERFLOW DRAIN
OW	OIL WASTE
PCSD	PUMPED CONDENSATE DRAIN
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SAN	SANITARY
SQFT / SF	SQUARE FEET
SS	SOIL STACK
ST	STORM
SST	SECONDARY STORM
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WS	WASTE STACK
W&V	WASTE AND VENT



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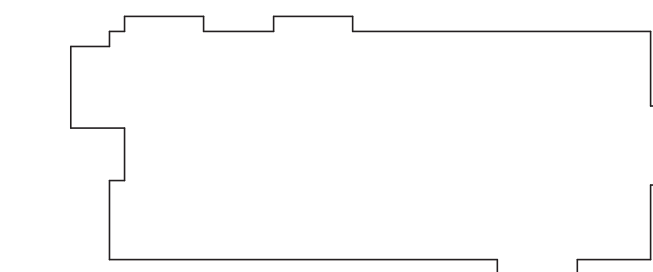
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Number	Date	Issued For

PLUMBING ABBREVIATIONS,
NOTES AND SYMBOLS

Date	04/07/2022	Drawing Number	P000
Scale	12" = 1'-0"		
Proj. Number	20287.10		

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PLUMBING UNDERGROUND KEY NOTES	
P1	PROVIDE 4" SAN TO CONNECT TO EXISTING SANITARY DISCHARGING INTO SEWAGE EJECTOR PUMP BASIN.
P2	EXISTING TRENCH DRAIN SYSTEM TO REMAIN.
P3	EXISTING SUMP TO REMAIN.
P4	EXISTING SEWAGE EJECTOR PUMP TO REMAIN.
P5	PROVIDE 6" ST TO CONNECT TO EXISTING 6" ST PIPING BELOW SLAB.
P6	PROVIDE 3" SAN, CONNECT TO EXISTING SANITARY PIPING BELOW SLAB.
P7	CONTRACTOR TO SCOPE EXISTING UNDERGROUND SANITARY PIPE TO VERIFY EXISTING PIPE SIZE AND INVERT ELEVATION. IF PIPE SIZE IS 4" OR LARGER, CONTRACTOR PERMITTED TO CONNECT 4" SAN FROM NEW BATHROOM GROUPS TO CLOSEST POSSIBLE LOCATION. IF PIPE SIZE IS LESS THAN 4", CONTRACTOR SHALL OWN TYING INTO LOCATION SHOWN.
NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.	

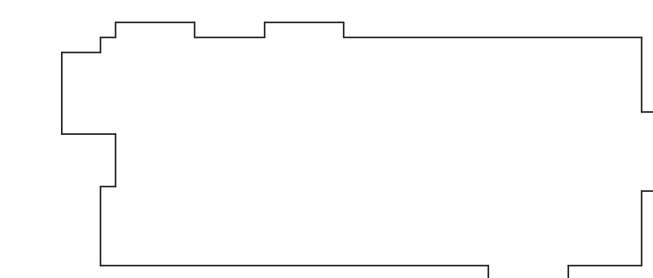


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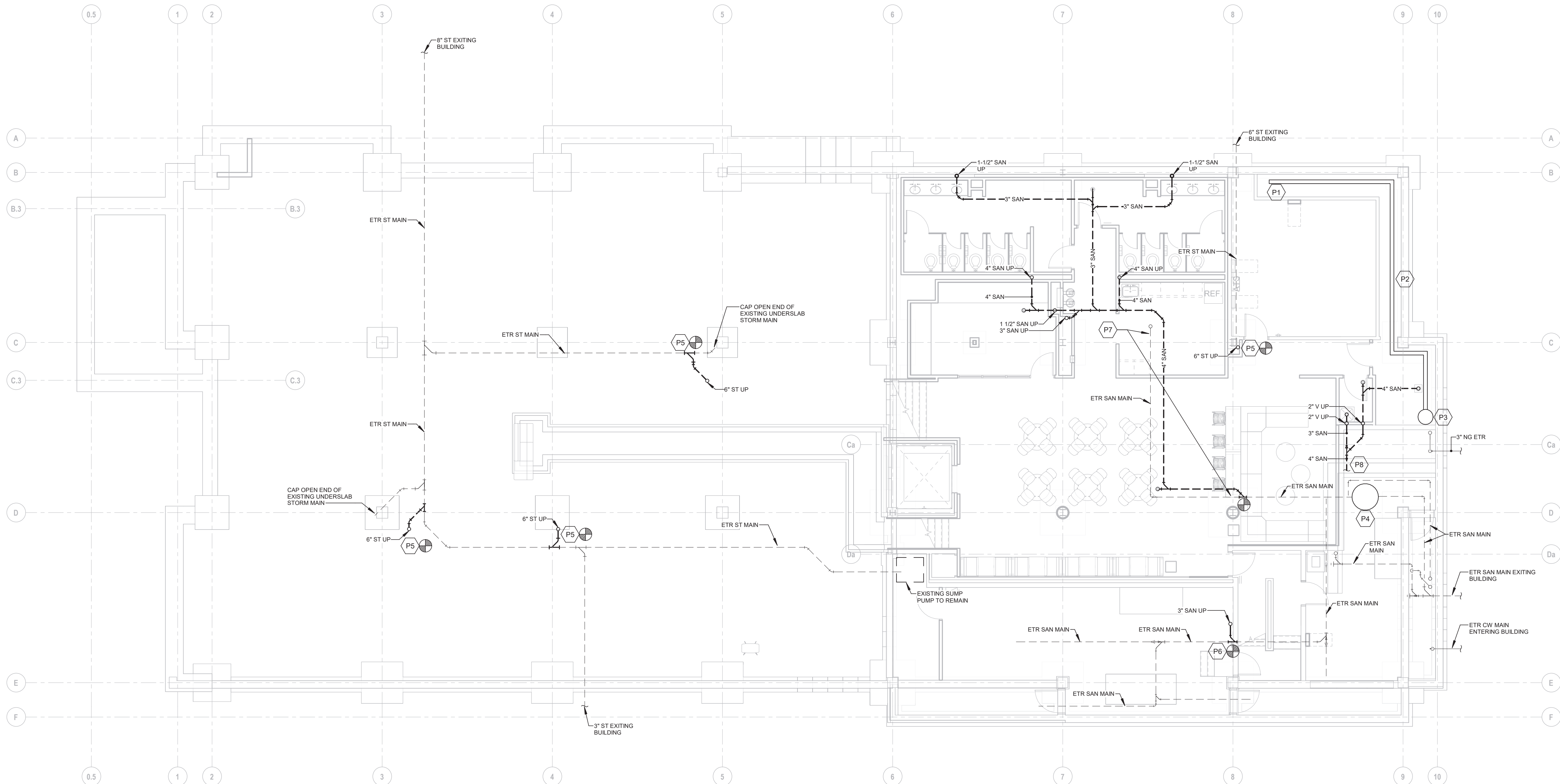
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KEYPLAN		
Number	Date	Issued For

**PLUMBING UNDERSLAB
PLAN**

Date 04/07/2022	Drawing Number P100
Scale 1/8" = 1'-0"	
Proj. Number 20287.10	



1 PLUMBING UNDERSLAB FLOOR PLAN
1/8" = 1'-0"

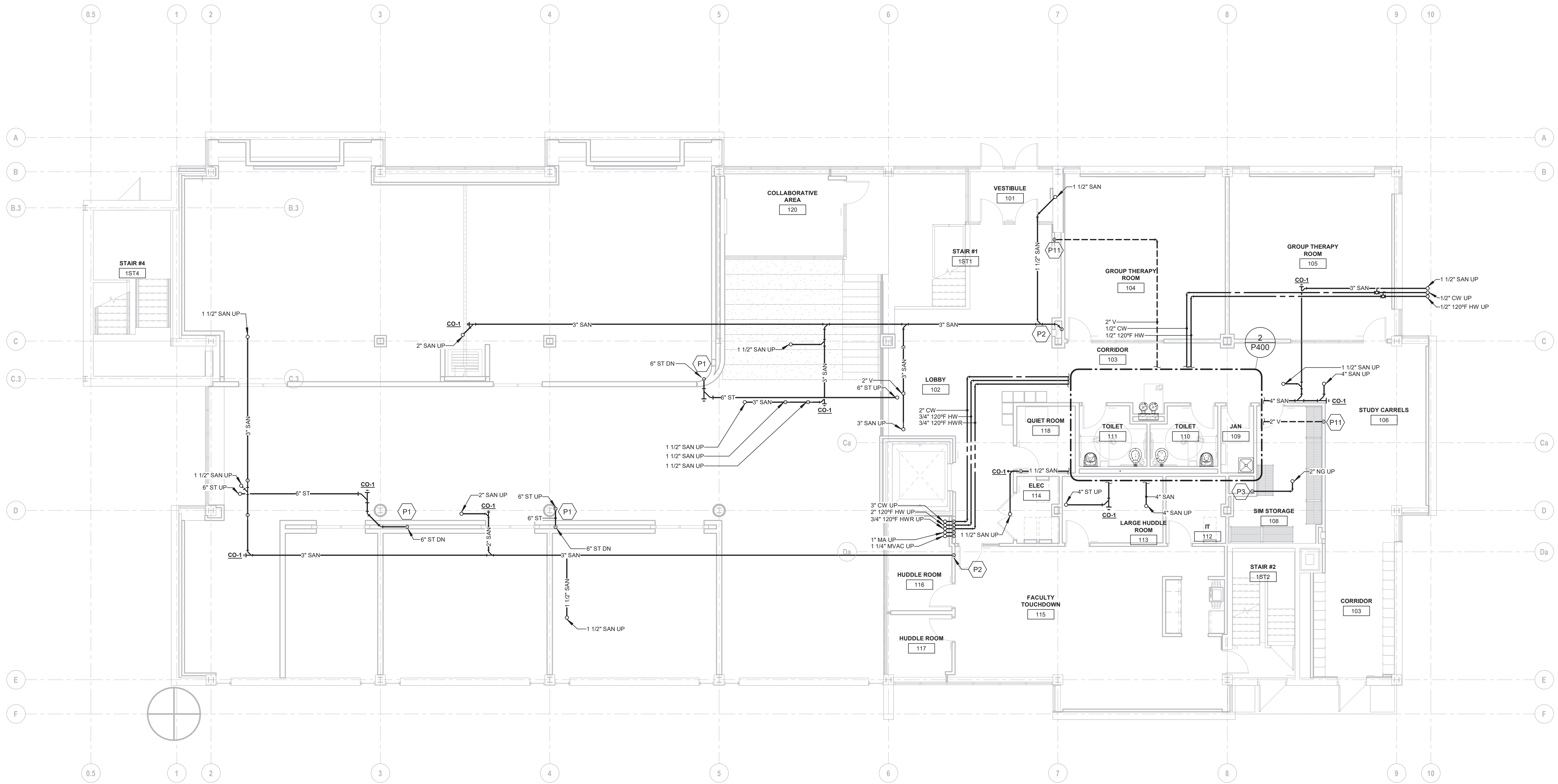
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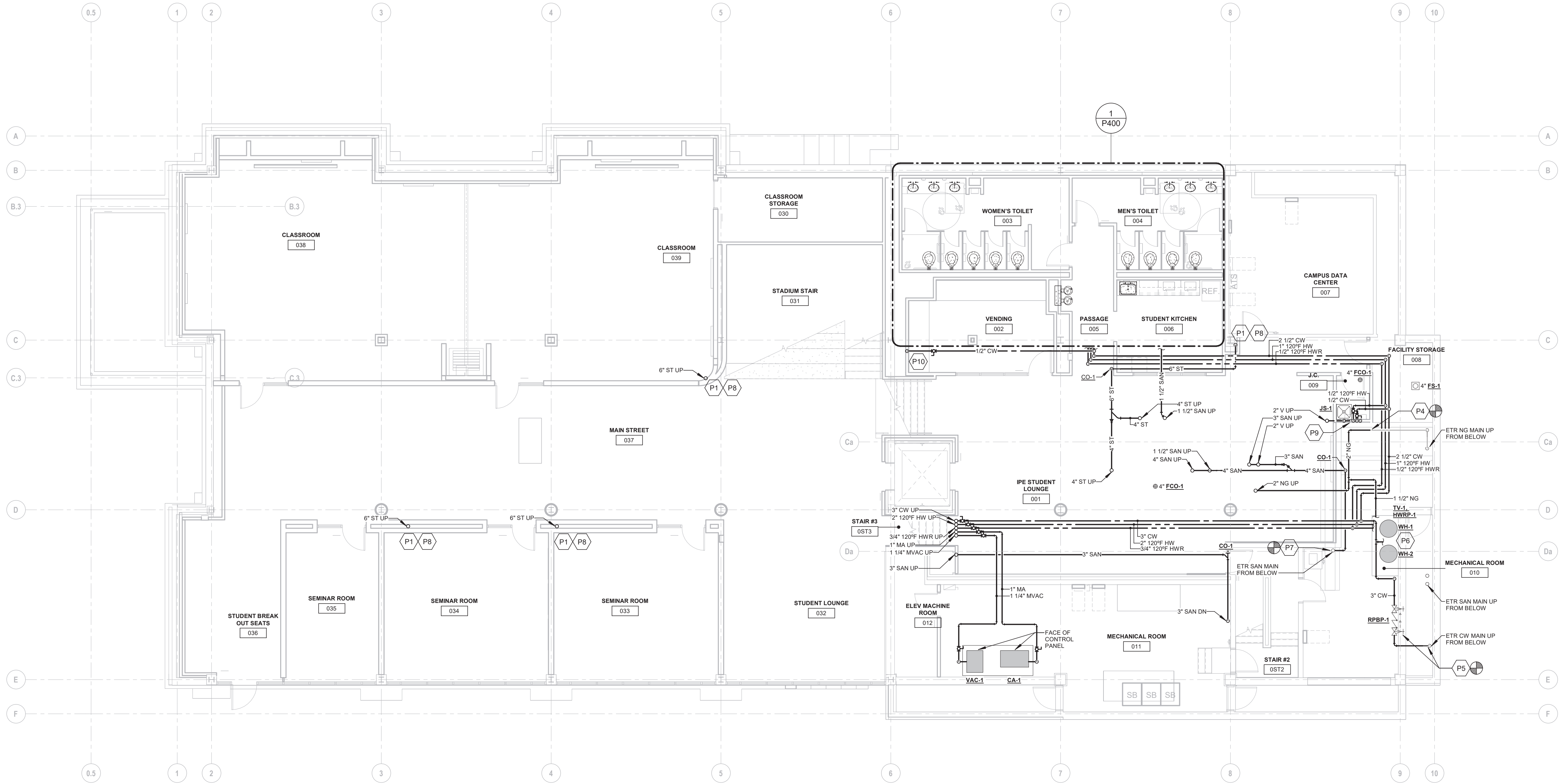
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2 PLUMBING FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 PLUMBING BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

PLUMBING KEY NOTES	
P1	PROVIDE 6" ST DN TO BELOW SLAB.
P2	PROVIDE 3" SAN DN TO FLOOR BELOW.
P3	PROVIDE 2" NG FROM FLOOR BELOW.
P4	EXISTING NATURAL GAS SERVICE TO REMAIN. CONTRACTOR TO MAINTAIN EXISTING NATURAL GAS SUPPLY TO EXISTING BOILERS. PROVIDE 2" NG. CONNECT TO EXISTING PIPING IN MECHANICAL ROOM AND SUPPLY TO DOMESTIC WATER HEATERS AND ROOF TOP EQUIPMENT.
P5	PROVIDE 3" CW TO CONNECT TO EXISTING CW SERVICE FROM STREET. REFER TO DETAIL # 1/P500 FOR DOMESTIC WATER SERVICE PIPING DIAGRAM.
P6	REFER TO DETAIL #2/P500 FOR PIPING TO WH-1/WH-2.
P7	PROVIDE 4" SAN, CONNECT TO EXISTING 4" SAN.
P8	PROVIDE INDIRECT WASTE RECEPTOR FOR CONDENSATE DISCHARGE INTO STORM PIPING. CONDENSATE PIPING BY DIVISION 23. REFER TO DETAIL #5/P500.
P9	PROVIDE 1/2" CW, 1/2" HW SUPPLY TO JS-1. PROVIDE (2) 2" V FROM BELOW SLAB. COMBINE VENTS IN WALL A MINIMUM OF 6" ABOVE THE FLOOD LEVEL RIM OF JS-1.
P10	PROVIDE 1/2" CW DN IN WALL TO SUPPLY COFFEE MAKER. PROVIDE SHUT-OFF VALVE AND WATTS MODEL RLPT DUAL CHECK BACKFLOW PREVENTER BEFORE CONNECTION TO EQUIPMENT. PROVIDE CHROME PLATED ESCUTCHEON ON WALL PENETRATION.
P11	PROVIDE 2" V FROM FLOOR BELOW.
NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.	



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Number	Date	Issued For

**PLUMBING BASEMENT/
LOWER LEVEL AND FIRST
FLOOR PLANS**

Date 04/07/2022 Scale 1/8" = 1'-0" Proj. Number 20287.10	Drawing Number P101
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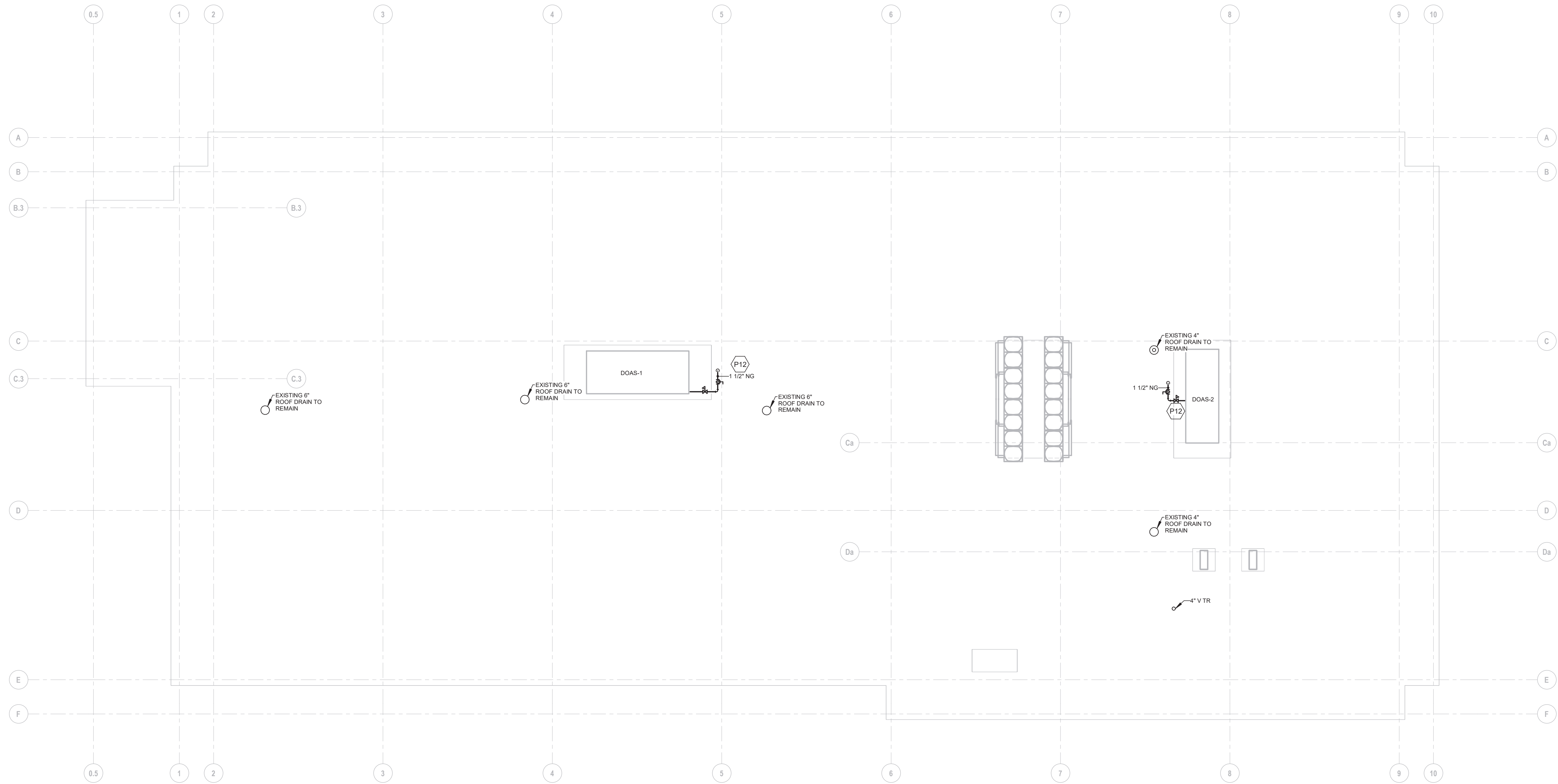
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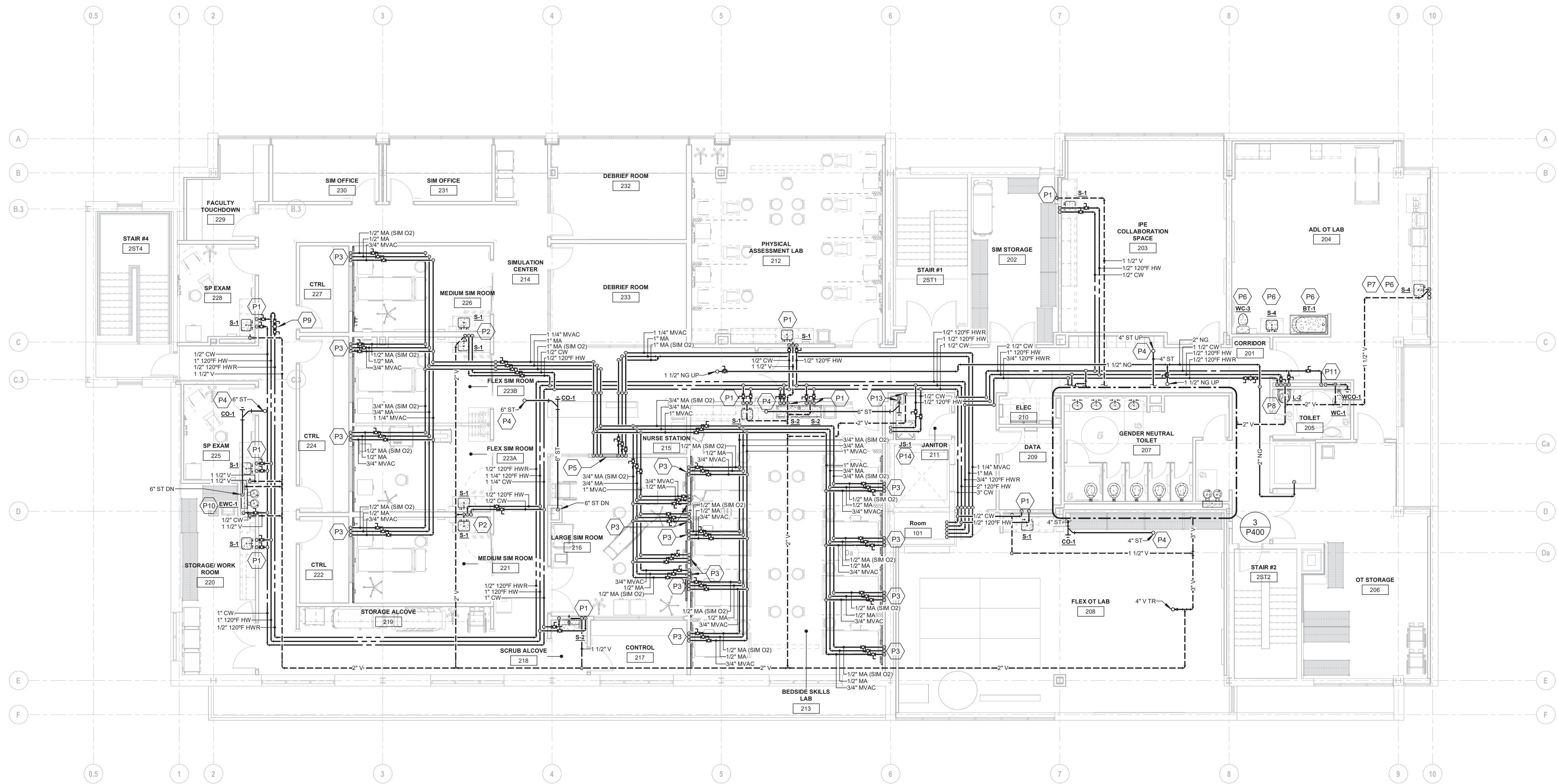
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2 PLUMBING ROOF LEVEL FLOOR PLAN
1/8" = 1'-0"



1 PLUMBING SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

PLUMBING KEY NOTES

- P1 PROVIDE 1/2" CW, 1/2" HW SUPPLY TO SINK. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
- P2 PROVIDE 1/2" CW, 1/2" HW SUPPLY TO BOTH SINKS. PROVIDE 1-1/2" SAN FUTURE CONNECTION TO EACH SINK. COMBINE IN WALL AND INCREASE TO 2" SAN AT INTERCONNECTION. PROVIDE 2" COMMON VENT UP AT INTERCONNECTION.
- P3 PROVIDE 3/4" MVAC, 1/2" MA, AND 1/2" MA (SIM O2) DN IN WALL TO MEDICAL GAS OUTLET. (MEDICAL GAS OUTLET PROVIDED BY OTHERS)
- P4 PROVIDE ST PIPING TO CONNECT TO EXISTING ROOF DRAIN. PIPE SIZE AS INDICATED ON PLAN.
- P5 PROVIDE 1" MA, 1" MA (SIM O2), & 1-1/4" MVAC DN IN WALL TO ALARM VALVE BOX. ALARM VALVE BOX SHALL BE BEACON MEDAES MODEL #AZV83-CCD.
- P6 PLUMBING FIXTURE FOR SIMULATED USE ONLY. WILL NOT BE CONNECTED TO WATER. WASTE OR VENT.
- P7 PROVIDE 1-1/2" SAN DN, 1-1/2" V UP. CAP SANITARY PIPING IN WALL FOR FUTURE CONNECTION. PROVIDE 1/2" CW, 1/2" HW FROM FLOOR BELOW, VALVE AND CAP BELOW SINK.
- P8 PROVIDE 1/2" CW, 1/2" HW, 1/2" HWR DN TO SUPPLY LAVATORY. REFER TO DETAIL #3/P500. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
- P9 PROVIDE HWR BALANCE VALVE SET TO 0.5 GPM.
- P10 PROVIDE 1/2" CW SUPPLY TO EWC-1. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
- P11 PROVIDE 1-1/2" CW SUPPLY TO WC-1. PROVIDE 4" SAN DN, 2" V UP.
- P12 PROVIDE NG CONNECTION TO MECHANICAL EQUIPMENT. PROVIDE DIRT LEG ABOVE SECOND FLOOR CEILING BEFORE ROOF PENETRATION TO PREVENT FREEZING.
- P13 PROVIDE 6" ST DN IN PIPE CHASE. PROVIDE 2" V FROM BELOW.
- P14 PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO JS-1.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.



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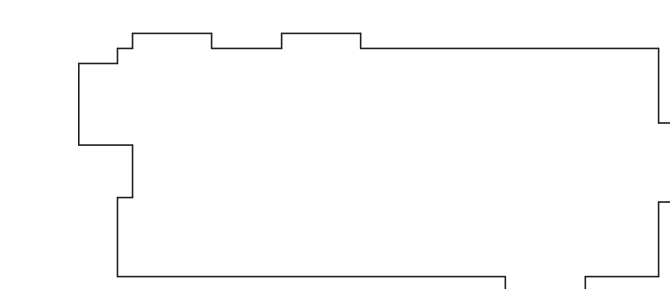
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KEYPLAN

Number	Date	Issued For

PLUMBING SECOND FLOOR
AND ROOF PLANS

Date
04/07/2022
Scale
1/8" = 1'-0"
Proj. Number
20287.10

Drawing Number

P102

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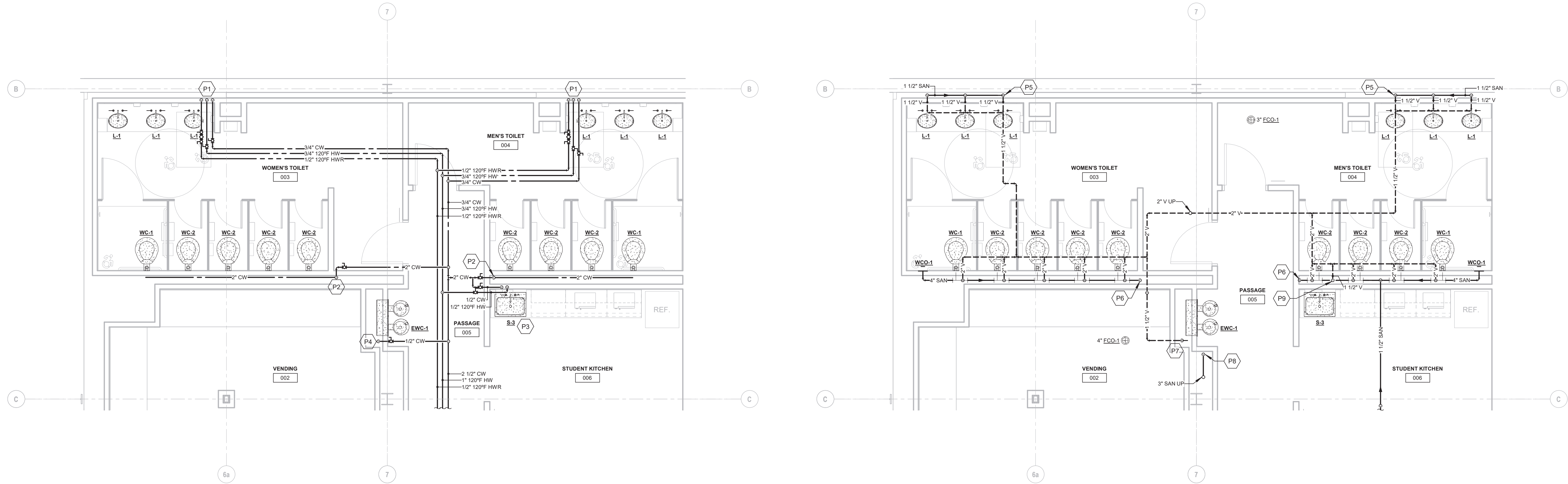
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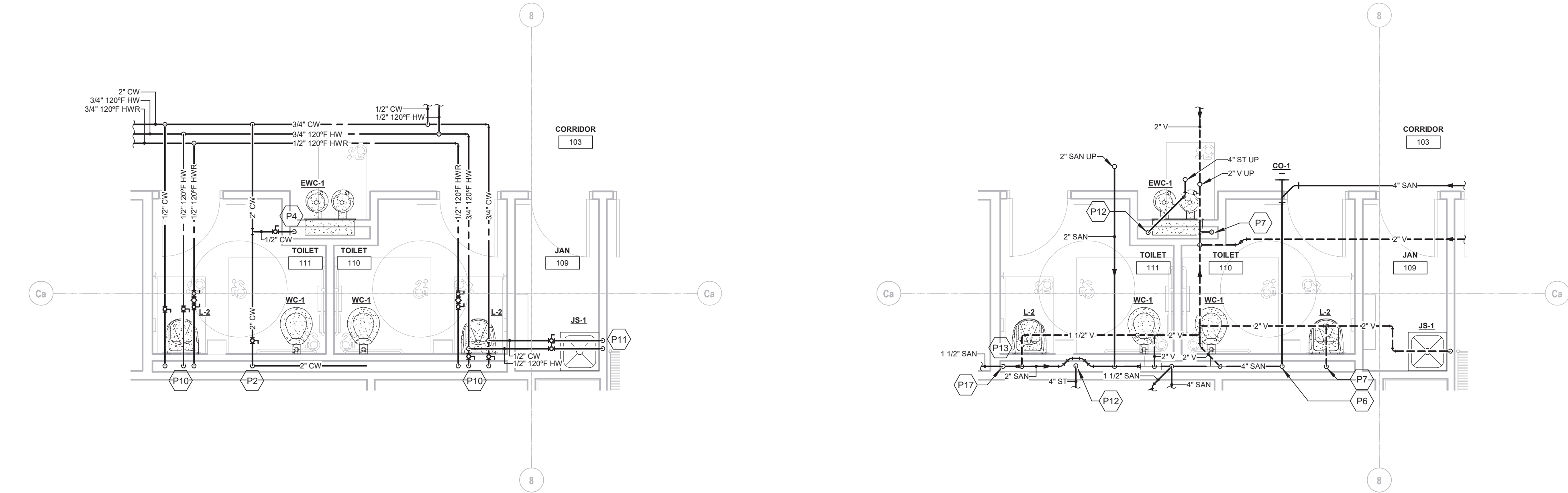
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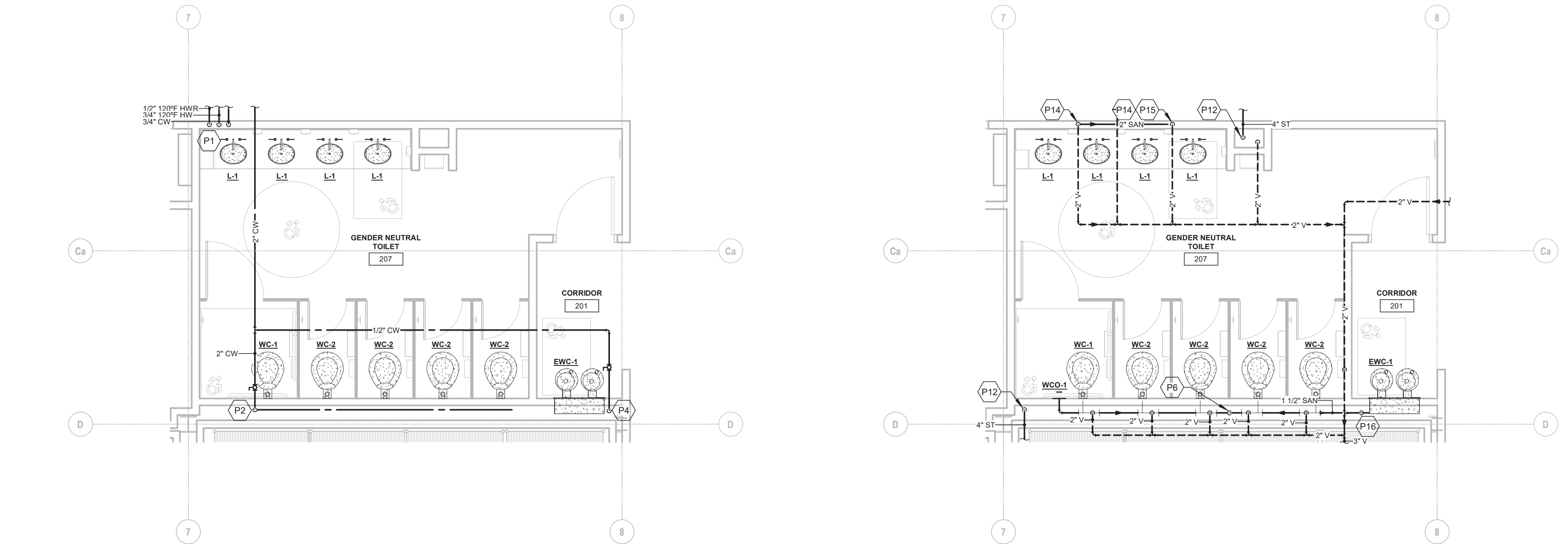
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1 PLUMBING ENLARGED PLANS - BASEMENT LEVEL TOILET ROOMS
1/4" = 1'-0"



2 PLUMBING ENLARGED PLANS - FIRST LEVEL TOILET ROOMS
1/4" = 1'-0"



3 PLUMBING ENLARGED PLANS - SECOND LEVEL GENDER NEUTRAL TOILET ROOM
1/4" = 1'-0"

PLUMBING KEY NOTES

- P1 PROVIDE 3/4" CW, 3/4" HW, AND 1/2" HWR DN TO SUPPLY TO LAVATORY. REFER TO DETAIL # 4/P500 FOR ADDITIONAL DOMESTIC WATER PIPING COMPONENTS.
- P2 PROVIDE 2" CW DN IN WET WALL, RUN 2" CW HEADER TO SUPPLY ALL WATER CLOSETS ALONG WALL. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZE TO INDIVIDUAL FIXTURES.
- P3 PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO SINK.
- P4 PROVIDE 1/2" CW SUPPLY TO EWC-1.
- P5 PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO EACH LAV. COMBINE WASTE IN WALL, 1-1/2" SAN DN TO BELOW SLAB.
- P6 PROVIDE 4" SAN DN.
- P7 PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
- P8 PROVIDE 3" SAN DN THROUGH FLOOR.
- P9 PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO S-3. COMBINE SANITARY INTO 4" SANITARY IN WET WALL.
- P10 PROVIDE 1/2" CW, 1/2" HW, 1/2" HWR SUPPLY TO LAVATORY. REFER TO DETAIL #3/P500 FOR ADDITIONAL DOMESTIC WATER PIPING COMPONENTS.
- P11 PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO JS-1.
- P12 PROVIDE 4" ST DN.
- P13 PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO LAV. CONNECT SANITARY INTO WATER CLOSET CARRIER.
- P14 PROVIDE 1-1/2" SAN CONNECTION TO EACH LAV. COMBINE IN WALL, INCREASE TO 2" SAN AND PROVIDE 2" COMMON VENT UP AT INTERSECTION.
- P15 2" SAN DN THROUGH FLOOR, SERVES ALL (4) LAVS.
- P16 PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO EWC-1. COMBINE SANITARY INTO WATER CLOSET CARRIER.
- P17 PROVIDE 1-1/2" SAN DN IN WET WALL, COMBINE WITH WASTE FROM LAV, INCREASE TO 2" SAN. CONNECT SANITARY INTO WATER CLOSET CARRIER.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.



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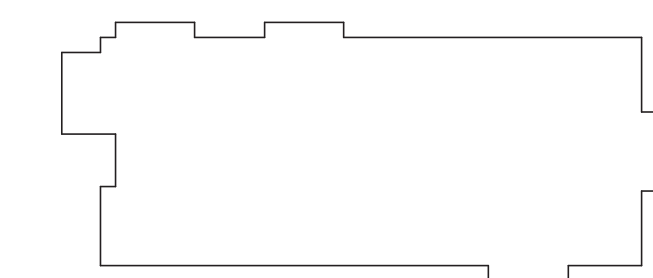
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Number	Date	Issued For

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PLANS

Date
04/07/2022
Scale
As indicated
Proj. Number
20287.10

Drawing Number

P400

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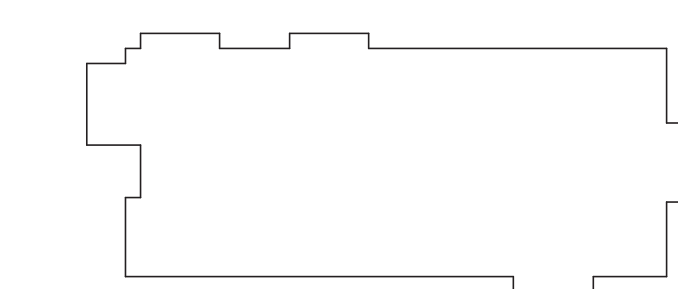
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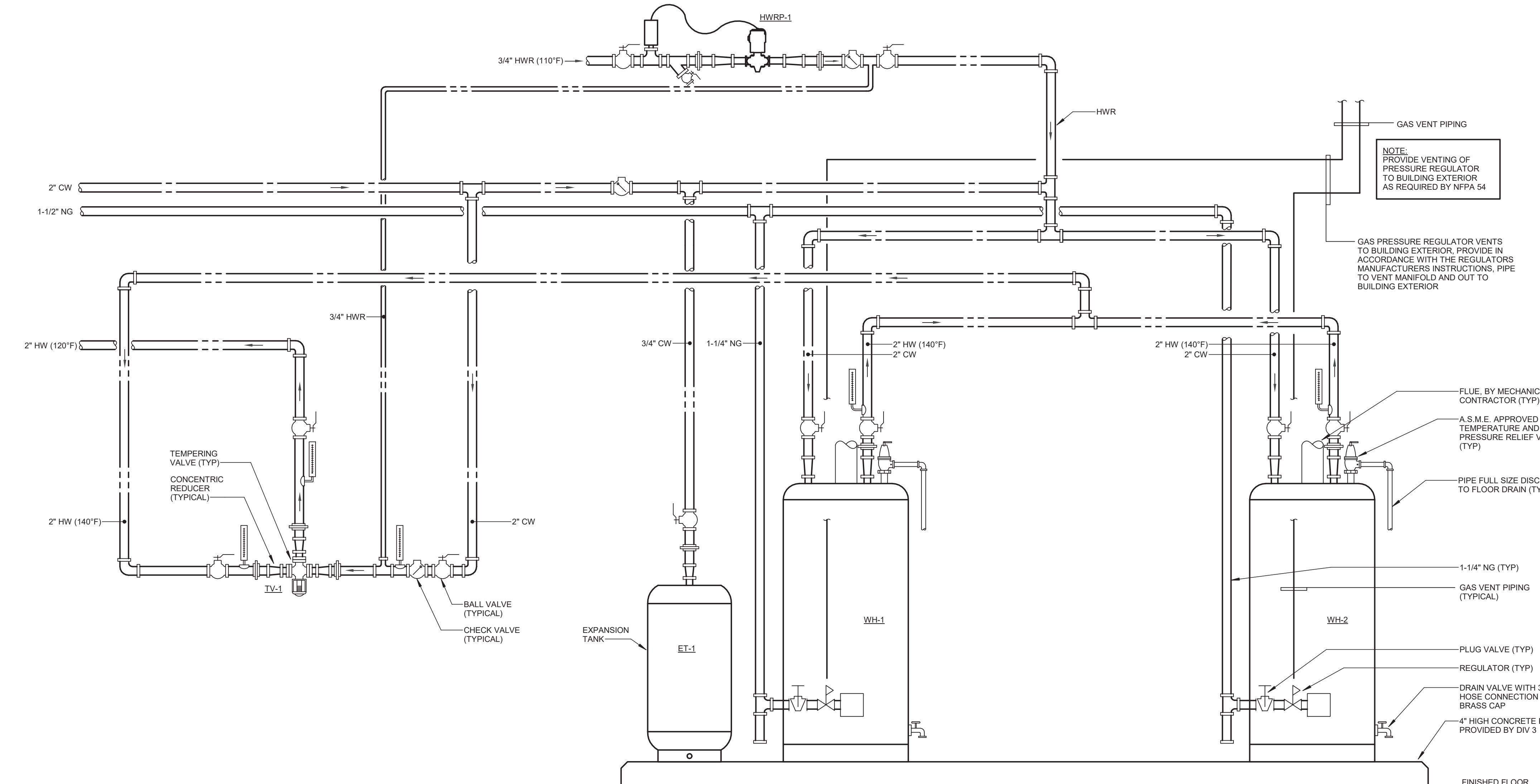
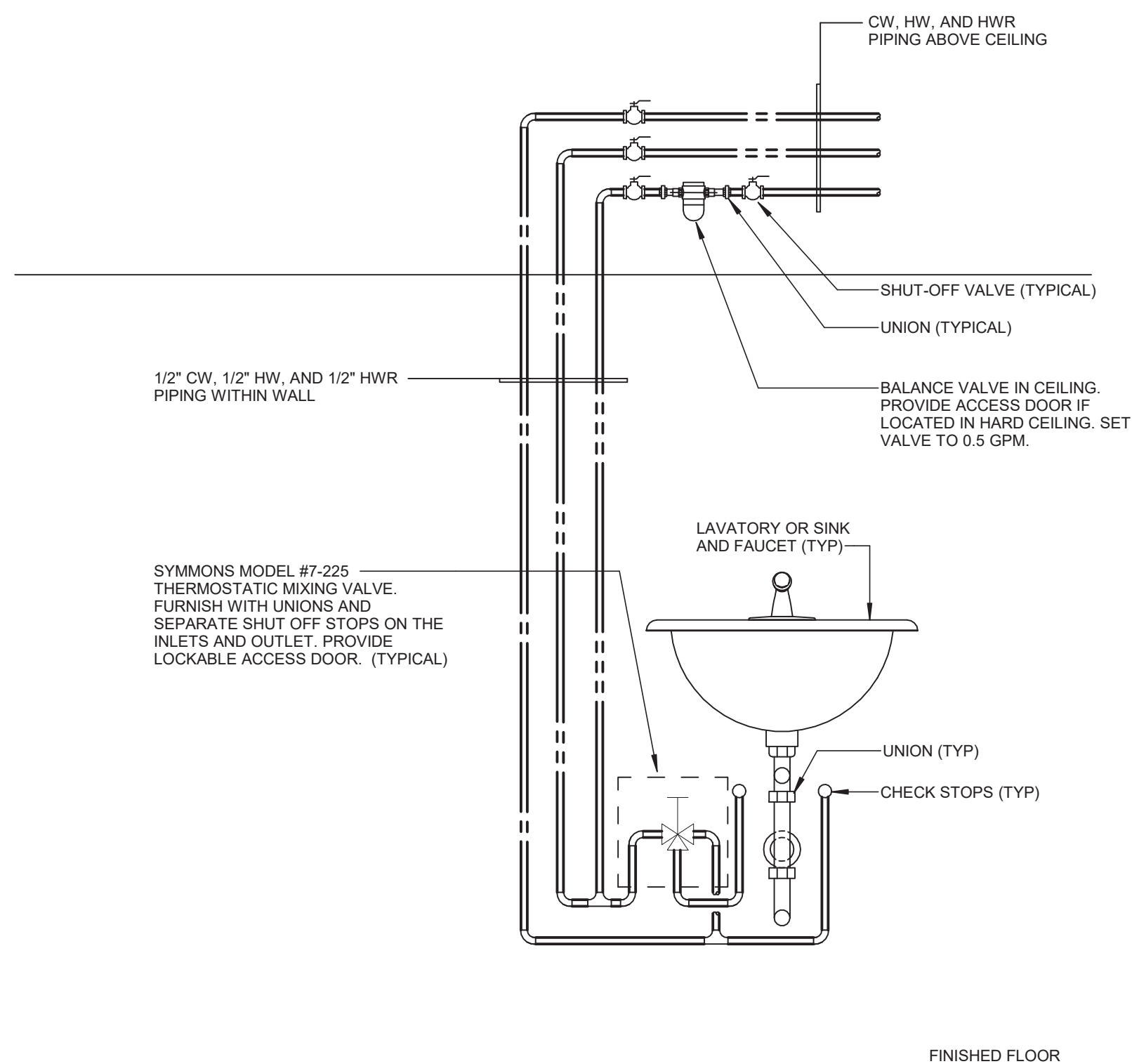
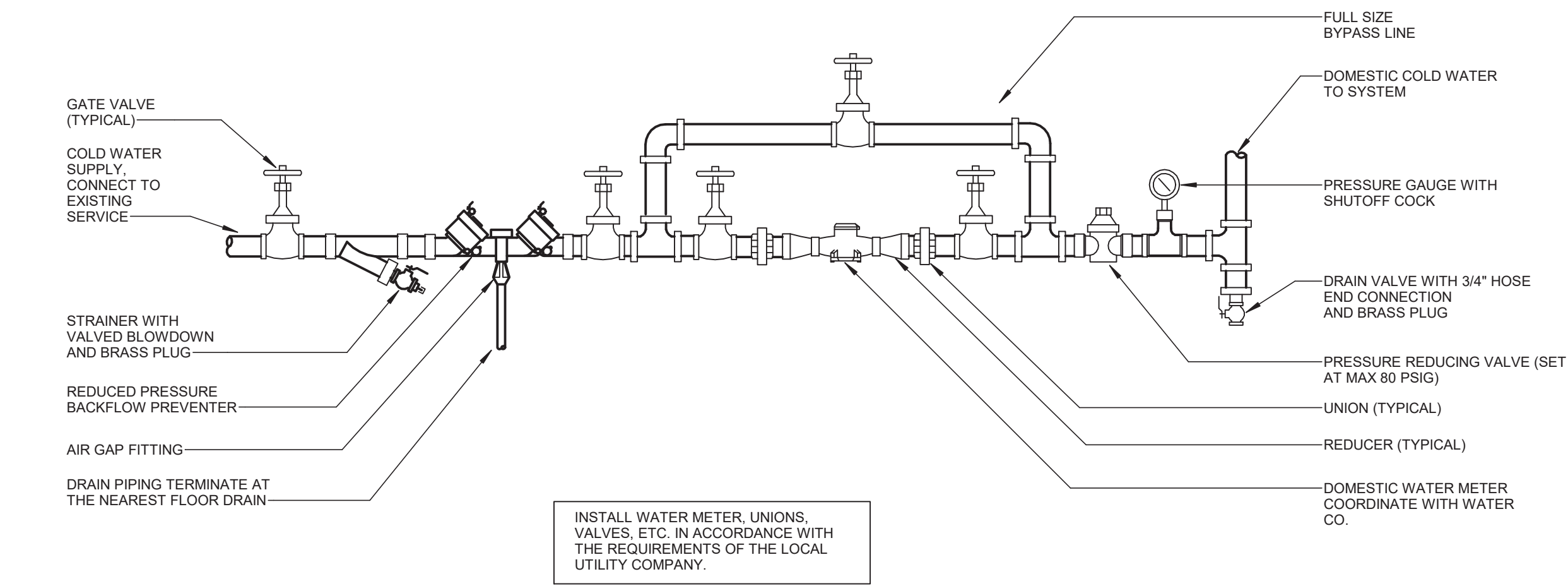
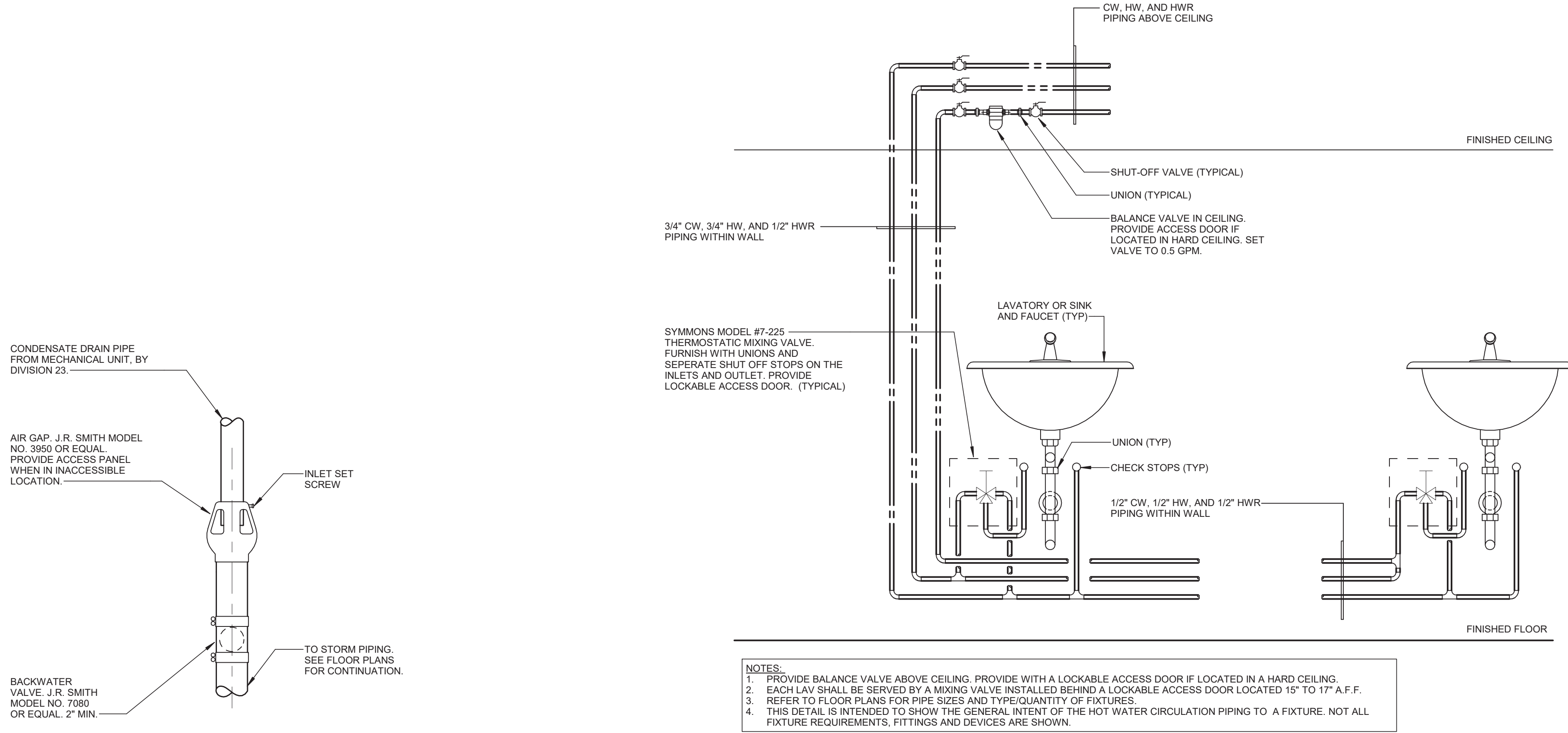


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Number	Date	Issued For

PLUMBING DETAILS

Date 04/07/2022	Drawing Number P500
Scale NTS	
Proj. Number 20287.10	



GENERAL NOTE:
1. CONTRACTOR MUST COORDINATE HOT WATER RECIRCULATION PIPING INSTALLATION PER THERMOSTATIC MIXING VALVE MANUFACTURERS INSTALLATION INSTRUCTION. HWR PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.
2. CONTRACTOR MUST COORDINATE EXPANSION TANK PIPING INSTALLATION PER EXPANSION TANK MANUFACTURERS INSTALLATION INSTRUCTION. EXPANSION TANK PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.

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A

PLUMBING SPECIALTIES SCHEDULE											
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
CO-1	JR SMITH MODEL # 4420C	CLEANOUT, CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREAD PLUG	VANDAL PROOF	-	#3	RPBP-1	WATTS 3/4" TO 2" MODEL # LF909-QT-S 2-1/2" TO 6" MODEL # LF909-OSY	REDUCED PRESSURE BACKFLOW PREVENTER, CAST IRON BODY WITH CORROSION RESISTANT INTERNAL PARTS AND SST SPRINGS. LEAD FREE	SHUTOFF VALVES: UP TO 2" - BRONZE BODY BALL VALVES OVER 2" - OS&Y GATE VALVE.	MAXIMUM OF 6" 0" ABOVE FINISHED FLOOR.	#2,3
ET-1	AMTROL MODEL # ST-12C-DD	EXPANSION TANK, STEEL TANK, 3.2 GALLONS ACCEPTANCE VOLUME, POLYPROPYLENE LINER ASME CONSTRUCTED PRECHARGED	-	-	#1	TV-1	WATTS "HYDROGUARD" MODEL # LFSH434	THERMOSTATIC MIXING VALVE, MASTER MIXING VALVE, 1 GPM MINIMUM FLOW, 5 PSIG DROP AT 42 GPM, SET POINT: 120°F	PROVIDE INLET/OUTLET PRESSURE/TEMP GAUGES, BYPASS REGULATION PUMP, CHECK VALVES, PROVIDE WITH HWRP-1	-	#1,3
ECQ-1	JR SMITH MODEL # 4023S-F-C-U-PB	FLOOR CLEANOUT, LIGHT DUTY, CAST IRON BODY, ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP, TAPER THREAD, BRONZE PLUG.	FLANGE WITH FLASHING CLAMP, VANDAL PROOF PLUG, PROVIDE CARPET FLOOR AREAS.	-	#3	WCO-1	JR SMITH MODEL # 4402C-U	WALL CLEANOUT, DUCO CAST IRON, SPIGOT FERRULE CAST BRONZE, THREAD PLUG, STAINLESS STEEL ROUND COVER AND SCREW.	VANDAL PROOF SCREWS.	-	#3,5
ES-1	JR SMITH MODEL # 3150-PDBS-U-13	FLOOR SINK, 8" DEEP RECEPTOR, NICKEL BRONZE RIM, ALUMINUM SEDIMENT BUCKET.	12 1/2" SQUARE NICKEL BRONZE TOP WITH VANDAL PROOF 3/4 GRATE, PROVIDE PROSET TRAP GUARD.	-	#3	WHA-1	PRECISION PLUMBING MODEL # SC-500 THROUGH # SC-2000	WATER HAMMER ARRESTOR, BARREL FABRICATED OF TYPE "X" HARD DRAWN COPPER, WITH EPDM "O" RING SEALS, NORMAL OPERATING PRESSURE 0-80 PSIG.	MACHINED COMPOSITE MATERIAL PISTON AND LOW LEAD BRASS THREADED ADAPTER	-	#4
REMARKS: 1. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS 2. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE, MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE. 3. REFER TO FLOOR PLANS FOR SIZES 4. INSTALL SIZES PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER 5. PROVIDE WALL CLEANOUT AT BASE OF ALL SANITARY AND STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER											

B

AIR COMPRESSOR SCHEDULE										
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SERVING	CAPACITY	MAX. PRESSURE (PSIG)	WEIGHT (LBS)	CAPACITY (GALLONS)	ELEC DATA HP-VOLTS-PH	REMARKS
CA-1	BEACON MEDIAES MODEL # LES05-115T-RD-071	OIL LESS	MECH ROOM	MA & MA (SIM 02)	14 SCFM @ 50 PSI	112.4	538 LBS	71	5/208V/3PH	#1,2
REMARKS: 1. ELECTRIC DRIVE 2. COMPLIANT TO OSHA AND UL STANDARDS										

VACUUM PUMP SCHEDULE									
SYMBOL	MANUFACTURER/ MODEL NUMBER	LOCATION	SERVING	NOMINAL PUMPING SPEED	CAPACITY	END PRESSURE (INCH OF HG.V)	WEIGHT (LBS)	ELEC DATA HP-VOLTS-PH	REMARKS
VAC-1	BEACON MEDIAES VLV02S-030V-BSCD-SPL	MECH ROOM	MVAC	28 ACFM	11 SCFM @ 19" Hg	29.3	438 LBS	2/208V/3PH	-

GAS FIRED WATER HEATER SCHEDULE									
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	FUEL TYPE	BTUH INPUT	STORAGE CAP. (GAL)	RECOVERY IN GPH AT 100°F RISE	ELEC. DATA VOLT-PH-AMP	REMARKS
WH-1	AO SMITH MODEL # 8TH-120(A)	S	MECH ROOM	GAS	120,000	60	138	120V-1-15	NOTE #1,2
WH-2	AO SMITH MODEL # 8TH-120(A)	S	MECH ROOM	GAS	120,000	60	138	120V-1-15	NOTE #1,2
NOTE: 1. WATER HEATER SHALL BE PROVIDED WITH A MINIMUM OF 14"W.C. GAS PRESSURE 2. WATER HEATER SHALL BE PROVIDED WITH ELECTRONIC IGNITION 3. STORAGE									

PUMP SCHEDULE									
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	CAPACITY	CAPACITY FT OF HEAD	FLUID TEMP (°F)	ELEC. DATA 115 V / 1/8 HP / 1 PHASE	REMARKS
HWRP-1	TACO MODEL # 009	IL	MECHANICAL ROOM	DOMESTIC HW RECIRC	3.5 GPM	23.2	120°F	115 V / 1/8 HP / 1 PHASE	1
NOTES: IL = IN-LINE PUMP REMARKS: 1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE									

C

D

E

PLUMBING FIXTURE SCHEDULE											
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS		
BT-1	AMERICAN STANDARD "STUDIO" MODEL # 2573202	BATH TUB, FLOOR MOUNT, FIBERGLASS, INTEGRAL APRON, 60" X 30" X 18"	PROVIDE MODEL #1553-470 DRAIN AND OVERFLOW, SHOWERHEAD, SHOWER TRIM.	-	S-2	ELKAY MODEL # EW5FAD13620SACC	SCUB SINK, ACCESSIBLE, WALL MOUNT, 16 GAUGE TYPE 304 STAINLESS STEEL, REAR CENTER DRAIN, 33" X 16-1/2" X 6-1/2" BOWL.	PROVIDE MODEL #LK6B722C SENSOR FAUCET WITH AC PLUG-IN, MODEL #LK723 MIXING VALVE, AND MODEL #LK16B DRAIN.	#2,3,4		
EWG-1	ELKAY MODEL # LZW5-LRP8M2BK	ELECTRIC WATER COOLER, ACCESSIBLE, DOUBLE BOWL, WITH BOTTLE FILLER, PUSH ACTIVATION, WALL MOUNT IN WALL, 8.0 GPM CHILLER CAPACITY, STAINLESS STEEL FINISH.	PROVIDE IN WALL CARRIER, REPLACEMENT WATER FILTERS, MODEL #LKAPR1 CANE APRON AND STAINLESS STEEL ACCESS PANEL.	#3,4	S-3	ELKAY "LUSTERTONE" MODEL # LRAD52255	SINK, ACCESSIBLE, DROP-IN, 18 GAUGE TYPE 304 STAINLESS STEEL, SINGLE CENTER FAUCET HOLE, REAR CENTER DRAIN, 21" X 15-3/4" X 5-1/8" BOWL.	PROVIDE T&S BRASS MODEL #B-0300-VR4-WS SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM, PROVIDE MODEL #LKAD35 DRAIN FITTING AND STRAINER.	#2,3,4		
JS-1	FIAT MODEL # MSB2424	JANITORS SINK, MOLDED STONE BASIN, 24"X24"X10", SET INTEGRAL DRAIN BODY.	SEE REMARK #8	#1,4,8	S-4	ELKAY "LUSTERTONE" MODEL # ELJH4D161650	SINK, ACCESSIBLE, UNDERMOUNT, STAINLESS STEEL, 18 GAUGE TYPE 304 STAINLESS STEEL, 16" X 16" W X 4-7/8" D BOWL.	PROVIDE T&S BRASS MODEL #B-0300-VR4-WS SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM, PROVIDE MODEL #LKAD35 DRAIN FITTING AND STRAINER.	#2,3,4		
L-1	KOHLER "CAXTON" MODEL # K-2209	LAVATORY, ACCESSIBLE, UNDERMOUNT, VITREOUS CHINA, OVAL BASIN, (3) 4" SPACED FAUCET HOLES.	PROVIDE SLOAN MODEL #ETF-600-S-BOX-BDT- CP-0.50PM-MLM-IR-FCF SENSOR ACTIVATED FAUCET, DECK MOUNT, POLISHED CHROME FINISH, 0.5 GPM VANDAL RESISTANT SPRAY DEVICE, THERMOSTATIC MIXING VALVE SET TO 110°F.	#1,2,3,4,11,13	WC-1	KOHLER "KINGSTON" MODEL # K-4325	WATER CLOSET, STANDARD, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" TOP SPUD, 1.28 MAX GPF.	FURNISH WITH SLOAN ROYAL MODEL #S2-R111-1.28 SENSOR FLUSH VALVE, BATTERY POWERED, TOP SPUD, 1.28 GPF, VACUUM BREAKER, MECHANICAL OVERRIDE, OLSONITE #955S SEAT, WALL SUPPORT JR SMITH SERIES 0200.	#1,3,4,5,12		
L-2	KOHLER "KINGSTON" MODEL # K-2028-4	LAVATORY, ACCESSIBLE, WALL MOUNT, VITREOUS CHINA, OVAL BASIN, OVERFLOW.	PROVIDE SLOAN MODEL #ETF-600-S-BOX-BDT- CP-0.50PM-MLM-IR-FCF SENSOR ACTIVATED FAUCET, DECK MOUNT, POLISHED CHROME FINISH, 0.5 GPM VANDAL RESISTANT SPRAY DEVICE, THERMOSTATIC MIXING VALVE SET TO 110°F, PROVIDE WALL SUPPORT FRAME.	#1,2,3,4,11,13	WC-2	KOHLER "KINGSTON" MODEL # K-4325	WATER CLOSET, STANDARD, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" TOP SPUD, 1.28 MAX GPF.	FURNISH WITH SLOAN ROYAL MODEL #S2-R111-1.28 SENSOR FLUSH VALVE, BATTERY POWERED, TOP SPUD, 1.28 GPF, VACUUM BREAKER, MECHANICAL OVERRIDE, OLSONITE #955S SEAT, WALL SUPPORT JR SMITH SERIES 0200.	#1,4,5,12		
S-1	ELKAY "LUSTERTONE" MODEL # ELJH4D161650	SINK, ACCESSIBLE, UNDERMOUNT, STAINLESS STEEL, 18 GAUGE TYPE 304 STAINLESS STEEL, 16" X 16" W X 4-7/8" D BOWL.	PROVIDE T&S BRASS MODEL #B-0300-VR4-WS SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM, PROVIDE MODEL #LKAD35 DRAIN FITTING AND STRAINER.	#2,3,4	WC-3	KOHLER "HIGHLINE" MODEL # K-3999	WATER CLOSET, STANDARD, FLOOR MOUNTED, ELONGATED BOWL, VITREOUS CHINA, TWO PIECE TANK, 1.28 MAX GPF.	TWO PIECE BOWL AND TANK, PROVIDE MODEL #K-5888 TOILET SEAT, PROVIDE PLEX- GLASS COVER OVER TOILET BOWL.	#1		
REMARKS: 1. COLOR SHALL BE WHITE. 2. PROVIDE TRUEBRO INC. MODEL #102, HAND LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE. 3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS. 4. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS. 5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS, LOCATED IN AN ACCESSIBLE LOCATION. 6. NUMBER NOT USED. 7. NUMBER NOT USED. 8. PROVIDE WITH CHICAGO MODEL #897-CCP SERVICE FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK VALVES, FIAT MODEL #1453BB STAINLESS STEEL STRAINER, MODEL #1236BB ALUMINUM BUMPER GUARD PLATE, MODEL #MSG-2424 WALL GUARD, MODEL #889-CC MOP HANGER, FOR CALKED LEAD CONNECTION NO LESS THAN 1" DEEP FROM DRAIN TO A 3" WASTE PIPE. 9. FIXTURE U-1 SHALL BE ACCESSIBLE WHERE DESIGNATED BY ARCHITECTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. 10. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS. 11. PROVIDE SYMMONS MODEL #7-225 SERIES THERMOSTATIC MIXING VALVE, OR APPROVED EQUAL, ON WATER SUPPLY TO FIXTURE. SET TEMPERATURE TO 110°F. 12. SENSOR SHALL BE ADJUSTABLE, PROVIDE WITH SOLENOID VALVE, CHROME PLATED WALL PLATE AND SLOAN MODEL #EL-154 TRANSFORMER (120 VAC/24 VAC). 13. FAUCET SHALL BE HARDWIRED, PROVIDE WITH BOX TRANSFORMER.											

PLUMBING FIXTURE CONNECTION SCHEDULE					
FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION	
DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	-	
DRINKING FOUNTAIN (2 BOWL)	1 1/2" (2)	1 1/2" (2)	1/2" (2)	-	
JANITORS MOP BASIN	3"	1 1/2"	1/2"	1/2"	
LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
SINK	1 1/2"	1 1/2"	1/2"	1/2"	
URINAL	2"	1 1/2"	3/4"	-	
WATER CLOSET (FLUSH VALVE)	4"	2"	1 1/2"	-	
NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS. 2. ALL PIPE TRAPS AT SINKS AND LAVATORIES SHALL BE CHROME PLATED BRASS.					

WATER HAMMER ARRESTOR SCHEDULE					
MANUFACTURER/ MODEL NUMBER	SIZE N.P.T.	OVER ALL LENGTH	PRELOADED PSI (AIR)	FIXTURE UNITS	REMARKS
PPP MODEL #SC-500	1/2"	5"	60	1-11	ALL
PPP MODEL #SC-750	3/4"	6"	60	12-32	ALL
PPP MODEL# SC-1000	1"	6 3/4"	60	33-60	ALL
PPP MODEL# SC-1250	1 1/4"	8 3/4"	60	61-113	ALL
PPP MODEL# SC-1500	1 1/2"	10 1/4"	60	114-154	ALL
PPP MODEL# SC-2000	2"	10 7/8"	60	155-330	ALL
NOTES: 1. LOCATE WATER HAMMER ARRESTORS AS CLOSE AS POSSIBLE TO SHOCK SOURCE. 2. INSTALL PER ALL MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS. 3. LOCATE IN AN ACCESSIBLE LOCATION, PROVIDE ACCESS AS REQUIRED. 4. FIXTURE UNITS SHALL BE BASED ON THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE. 5. WATER HAMMER ARRESTORS SHALL BE PROVIDED WHERE QUICK-CLOSING VALVES ARE UTILIZED. 6. PROVIDE WATER HAMMER ARRESTORS AT CLOTHES WASHING MACHINES 7. PROVIDE WATER HAMMER ARRESTORS PER GROUP OF WATER CLOSETS AND PER GROUP OF URINALS, WHERE GROUP DOES NOT EXIST PROVIDE WATER HAMMER ARRESTOR AT SINGLE WATER CLOSET.					



S / L / A / M Architects, Landscape Architects & Engineers, P.C.

80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
Phone: 860 657.8077

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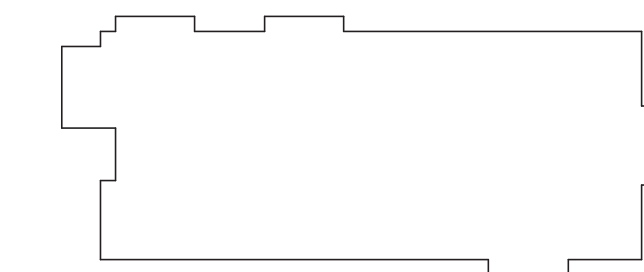
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