ABBREVIATIONS: MOTORIZED DAMPER ALTERNATING CURRENT ADJUSTABLE MECHANICAL **AUTHORITY HAVING JURISDICTION** MFG MANUFACTURER MIN MINIMUM AIR HANDLING UNIT AIR SEPARATOR MIN MINUTE AMERICAN SOCIETY OF MECHANICAL ENGINEERS **MILLIMETER** BRAKE HORSEPOWER MEDIUM PRESSURE STEAM **BUILDING MANAGEMENT SYSTEM** MOISTURE (HUMIDITY) TRANSMITTER CALC CALCULATED MANUAL VENT CHILLED WATER COOLING COIL - AHU NORMALLY CLOSED CONDENSATE DRAIN NOISE CRITERIA LEVEL NATIONAL FIRE PROTECTION ASSOCIATION CUBIC FEET PER MINUTE CHILLED WATER RETURN NATURAL GAS NORMALLY OPEN CHILLED WATER SUPPLY C/L CENTERLINE NATIONAL PIPE THREAD CO CLEANOUT **OUTSIDE AIR** OAT OUTSIDE AIR TEMPERATURE COEFFICIENT ORD COMLINK COMMUNICATION LINK OVERFLOW ROOF DRAIN OSA COND CONDENSATION OUTSIDE AIR CONFIG CONFIGURED OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION CONTRACTING OFFICER'S REPRESENTATIVE PASCAL PUMPED CONDENSATE CONTROL CONDENSATE PUMP PREHEAT STEAM COIL - AHU CHLORINATED POLYVINYL CHLORIDE PDPRESSURE DROP CONDENSATE RETURN PDS PRESSURE DIFFERENTIAL SENSOR CR CV CONTROL VALVE PHASE FLOW COEFFICIENT PROPORTIONAL INTEGRAL PID DAMPER PROPORTIONAL INTEGRAL DERIVATIVE DISCHARGE AIR TEMPERATURE PRESS. PRESSURE DRY BULB HIGH PRESSURE SWITCH DIRECT CURRENT POUNDS PER SQUARE INCH - GAUGE DOMESTIC COLD WATER PSL LOW PRESSURE SWITCH DEG DEGREES QUANT. QUANTITY DHR DOMESTIC HOT WATER RETURN RADIUS RETURN DOMESTIC HOT WATER DHW DIFF. DIFFERENTIAL RETURN AIR REHEAT STEAM COIL - AHU DISTRUBUTION DOWNSPOUT ROOF DRAIN DSP DEHUMIDIFICATION SET POINT RESIDENT ENGINEER DWV DRAIN, WASTE AND VENT REQUIRED **EXISTING** (E) RELATIVE HUMIDITY REVOLUTIONS PER MINUTE EXHAUST AIR **ENERGY CONTROL CENTER** SUPPLY ELECTRICAL SUPPLY AIR ELEV ELEVATION SANITARY **ENTERING** SOFT COLD WATER **ENERGY RECOVERY COIL - AHU** SMOKE DAMPER FAN SECTION - AHU ES END SWITCH SF ELECTRIC WATER COOLER SQUARE FEET **EWC** SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION **FAHRENHEIT** FD FLOOR DRAIN STATIC PRESSURE FLOOR SINK SPECIFICATION FILT. SS STAINLESS STEEL SST FPM FEET PER MINUTE START/STOP FT FEET STEAM UNIT HEATER GAL GALLONS STEAM VALVE GALVANIZED STEAM VENT GENERAL CONTRACTOR THERMOSTAT GALLONS PER MINUTE TEMPERATURE TSP TOTAL STATIC PRESSURE **GLYCOL TANK** TEMPERATURE SENSOR/TRANSMITTER HEIGHT **HUMIDIFIER - AHU TYPICAL** HORSEPOWER **UNIT HEATER** VENT HIGH PRESSURE STEAM HR HOUR VOLTS HRCR HEAT RECOVERY RETURN VAV VARIABLE AIR VOLUME HEAT RECOVERY SUPPLY VARIABLE FREQUENCY DRIVE HEAT RECOVERY PUMP VARIABLE SPEED MOTOR CONTROLLER VTR **HUMIDIFICATION SET POINT** VENT THROUGH ROOF HEATING, VENTILATION, AND AIR CONDITIONING W WIDTH HEAT EXCHANGER WITH HX Hz HERTZ WET BULB INTERNATIONAL BUILDING CODE INCHES OF WATER INTERNAIONAL ENERGY CONSERVATION CODE ZAT ZONE AIR TEMPERATURE IFB INTEGRAL FACE AND BYPASS VALVE OR DAMPER CONTROLLER INTERNATIONAL MECHANICAL CODE I/O INPUT/OUTPUT INTERNATIONAL PLUMBING CODE ICVAMC IOWA CITY VETERANS AFFAIRS MEDICAL CENTER COMMANDING OFFICER LENGTH LABORATORY EQUIPMENT COMPRESSED AIR LBS POUNDS

PLU	JMBING SYMBOLS		
Š	3-WAY CONTROL VALVE	Þ	BALL VALVE
Š	2-WAY CONTROL VALVE	Φ	PLUG VALVE
<u>†</u>	CHECK VALVE	❖	B-VALVE
M	FLOW METER	×	GLOBE VALVE
Ą	AQUASTAT	×	GLOBE VALVE -MANUAL
\bowtie	GATE VALVE	A ×	GLOBE VALVE - ON/OFF
Ā	GATE VALVE - MANUAL	×	GLOBE VALVE - MODULATING
A	GATE VALVE - ON/OFF	DMI	BUTTERFLY VALVE
×	GATE VALVE - MODULATING	ÞЫ	BUTTERFLY VALVE - MANUAL
	THERMOSTATIC MIXING VALVE		BUTTERFLY VALVE - ON/OFF
B	BALANCING VALVE	S A	BUTTERFLY VALVE - MODULATING
	FLOW CONTROL VALVE		VERTICAL HEAT EXCHANGER
$\stackrel{\triangle}{\bowtie}$	PRESSURE REDUCING VALVE	甲	TEMPERATURE SENSOR
$\square_{\downarrow}\square$	REDUCED PRESSURE ZONE VALVE		DRINKING FOUNTAIN
₽	PRESSURE RELIEF VALVE	© or ⊅1	TRIPLE DUTY VALVE
	SOLENOID VALVE	V V	VACUUM BREAKER
Ø H	PRESSURE GAUGE	Ŧ	TEST PLUG
	THERMOMETER	KX	FLEXIBLE PIPE CONNECTION
	PUMP	Р	HAMMER ARRESTOR
\otimes	STEAM TRAP	F	PRESSURE REGULATOR
À	STRAINER	Ą	MANUAL AIR VENT
D	CONCENTRIC REDUCER	\$	POINT OF CONNECTION
ıļı	PIPE UNION	~	POINT OF DISCONNECTION
- +	PIPE ELBOW		TO BE DEMOLISHED
4	PIPE DOWN	2	PLUMBING PLAN NOTE
4	PIPE UP	- 1 - [‡] +-	TEE
	PIPE TEE DOWN		

PLUMBING SYMBOLS

	EXISTING ROOF PLUMBING DEMOLITION PLAN 1.01 FIRST FLOOR DRAIN, WASTE AND VENT PLAN 1.02 INTERSTITIAL SPACE WATER AND COMPRESSED AIR PLAN 1.02.1 INTERSTITIAL SPACE WATER AND COMPRESSED AIR PLAN-ALTERNATE BID#3 1.03 INTERSTITIAL SPACE DRAIN, WASTE AND VENT PLAN 1.04 LEVEL 3 SPS WATER AND COMPRESSED AIR PLAN 1.04.1 LEVEL 3 SPS WATER AND COMPRESSED AIR PLAN BID ALTERNATE #3 1.05 LEVEL 3 DRAIN, WASTE AND VENT PLAN 1.06 PLUMBING ROOF PLAN 2.01 WATER AND COMPRESSED AIR ISOMETRIC VIEWS 2.01.1 WATER AND COMPRESSED AIR ISOMETRIC VIEWS BID ALTERNATE #3 2.02 DRAIN, WASTE AND VENT ISOMETRIC VIEWS 3.01 PLUMBING SECTIONS				
P 0.00					
P 1.00	EXISTING ROOF PLUMBING DEMOLITION PLAN				
P 1.01	FIRST FLOOR DRAIN, WASTE AND VENT PLAN				
P 1.02	INTERSTITIAL SPACE WATER AND COMPRESSED AIR PLAN				
P 1.02.1					
P 1.03	INTERSTITIAL SPACE DRAIN, WASTE AND VENT PLAN				
P 1.04	LEVEL 3 SPS WATER AND COMPRESSED AIR PLAN				
P 1.04.1					
P 1.05	LEVEL 3 DRAIN, WASTE AND VENT PLAN				
P 1.06	PLUMBING ROOF PLAN				
P 2.01	WATER AND COMPRESSED AIR ISOMETRIC VIEWS				
P 2.01.1					
2.02	DRAIN, WASTE AND VENT ISOMETRIC VIEWS				
P 3.01	PLUMBING SECTIONS				
P 5.01	PLUMBING DETAILS				
² 5.02	PLUMBING DETAILS				
P 6.01	PLUMBING SCHEDULES				

GENERAL PLUMBING NOTES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC), NFPA 101 LIFE SAFETY CODE, AND ANY AUTHORITY HAVING JURISDICTION. THIS IS A FEDERAL PROJECT, AS SUCH ALL CODE REQUIREMENTS ARE REQUIRED.

ALL EQUIPMENT, MATERIALS, AND ARTICLES INCORPORATED IN THE WORK SHALL BE NEW AND OF COMPARABLE QUALITY AS SPECIFIED. ALL WORKMANSHIP SHALL BE FIRST-CLASS AND SHALL BE PERFORMED BY MECHANICS SKILLED AND REGULARLY EMPLOYED IN THEIR RESPECTIVE TRADES.

ALL WORK SHALL BE COORDINATED WITH ALL AFFECTED TRADES PRIOR TO STARTING WORK. REWORK REQUIRED DUE TO COORDINATION ISSUES SHALL BE DONE BY THE INSTALLATION CONTRACTOR WITHOUT INCREASED COST TO THE OWNER.

THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. ALTHOUGH EVERY ATTEMPT HAS BEEN MADE TO INDICATE THE EXACT ROUTING AND LOCATION OF PROPOSED SYSTEMS, NOT ALL OFFSETS, REQUIRED FITTINGS AND/OR CONDITIONS CAN BE SHOWN. THE CONTRACTOR SHALL COORDINATE WORK AND MAKE REQUIRED CHANGES TO THE ROUTING IN ORDER TO AVOID CONFLICTS WITHOUT ANY INCREASED COST TO THE OWNER.

SYSTEMS DESIGNATED TO BE PROVIDED AND INSTALLED WITHIN THESE CONTRACT DOCUMENTS ARE INTENDED TO BE COMPLETE AND OPERATIONAL. PROVIDE EVERYTHING ESSENTIAL FOR THE COMPLETION OF THE WORK TO MAKE THE SYSTEM READY FOR NORMAL AND PROPER OPERATION, INCLUDING ALL WORK OR MATERIALS NOT DIRECTLY SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS, BUT NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM.

PLUMBING CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER MAINTENANCE CLEARANCES ARE MAINTAINED. CLOSE COORDINATION WILL BE REQUIRED WITH THE MECHANICAL PIPING, HVAC, FIRE PROTECTION, AND ELECTRICAL CONTRACTOR.

ALL DOMESTIC WATER PIPING ABOVE GRADE IS INTENDED TO BE INSULATED, TYPE K OR L HARD DRAWN COPPER PIPE AS SPECIFIED. TYPE M COPPER PIPE IS NOT ALLOWED.

ALL WASTE AND VENT PIPING ABOVE GRADE IS INTENDED TO BE CAST IRON OR DUCTILE IRON AS SPECIFIED. PVC IS NOT ALLOWED ABOVE GRADE. ALL WASTE AND VENT PIPING BELOW GRADE IS INTENDED TO BE PVC AS SPECIFIED. CAST IRON OR OTHER METAL PIPING IS NOT ALLOWED UNDER GRADE.

FOR PIPE SIZES NOT SHOWN ON FLOOR PLANS SEE PIPING ISOMETRIC DRAWINGS.

CONSTRUCTION DOCUMENTS

2/23/2024 COMPLIANCY REVIEW INCLUDED

LOW PRESSURE STEAM SOUND POWER LEVEL

MECHANICAL CONTRACTOR

THOUSAND BRITISH THERMAL UNITS PER HOUR

MAXIMUM

LWA MAX

MBH

Revisions:

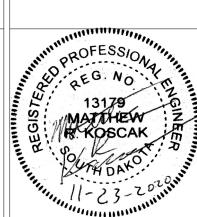
TERRASITE DESIGN 1635 DEADWOOD AVENUE TerraSite PAPID CITY, SOUTH DESIgn PH: (605) 791-1736 RAPID CITY, SOUTH DAKOTA 57702

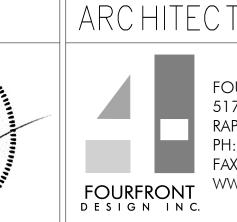
Albertson Engineering Inc

OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS

ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606 FARRIS ENGINEERING **FARRIS ENGINEERING** 12700 WEST DODGE ROAD

OMAHA, NEBRASKA 68154







Drawing Title **ABBREVIATIONS** Approved: Project Director 16.2330.A08

SYMBOLS, LEGENDS AND Service Omaha VA Medical Center 11 / 23 / 2020

Project Title 16.2330.A08 VA NWIHCS OMC CAMPUS -AE Construct Sterile Processing **Building Number** Location 4101 Woolworth Ave #4199 **Drawing Number** Omaha, Ne 68105 P 0.00 Checked

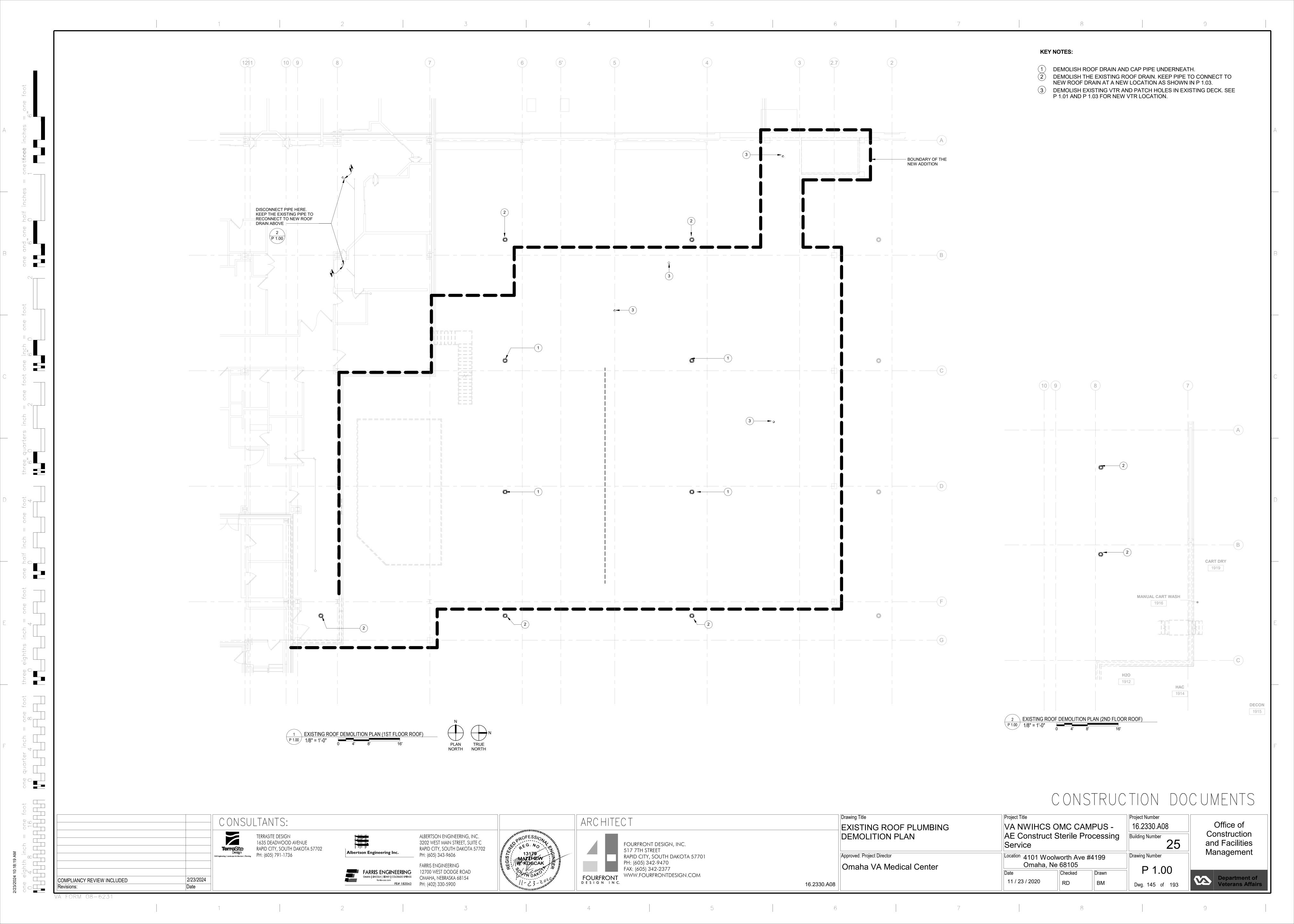
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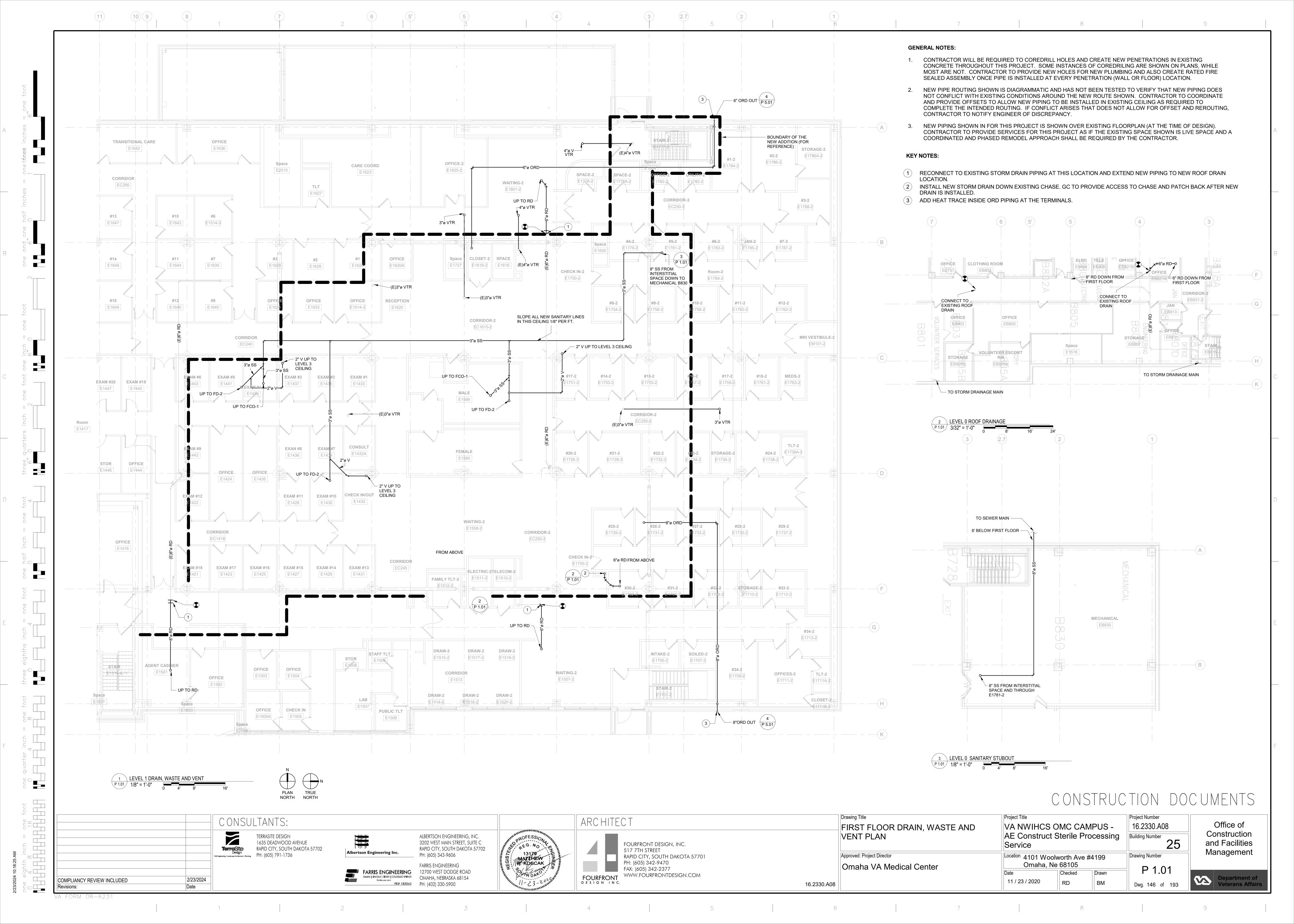
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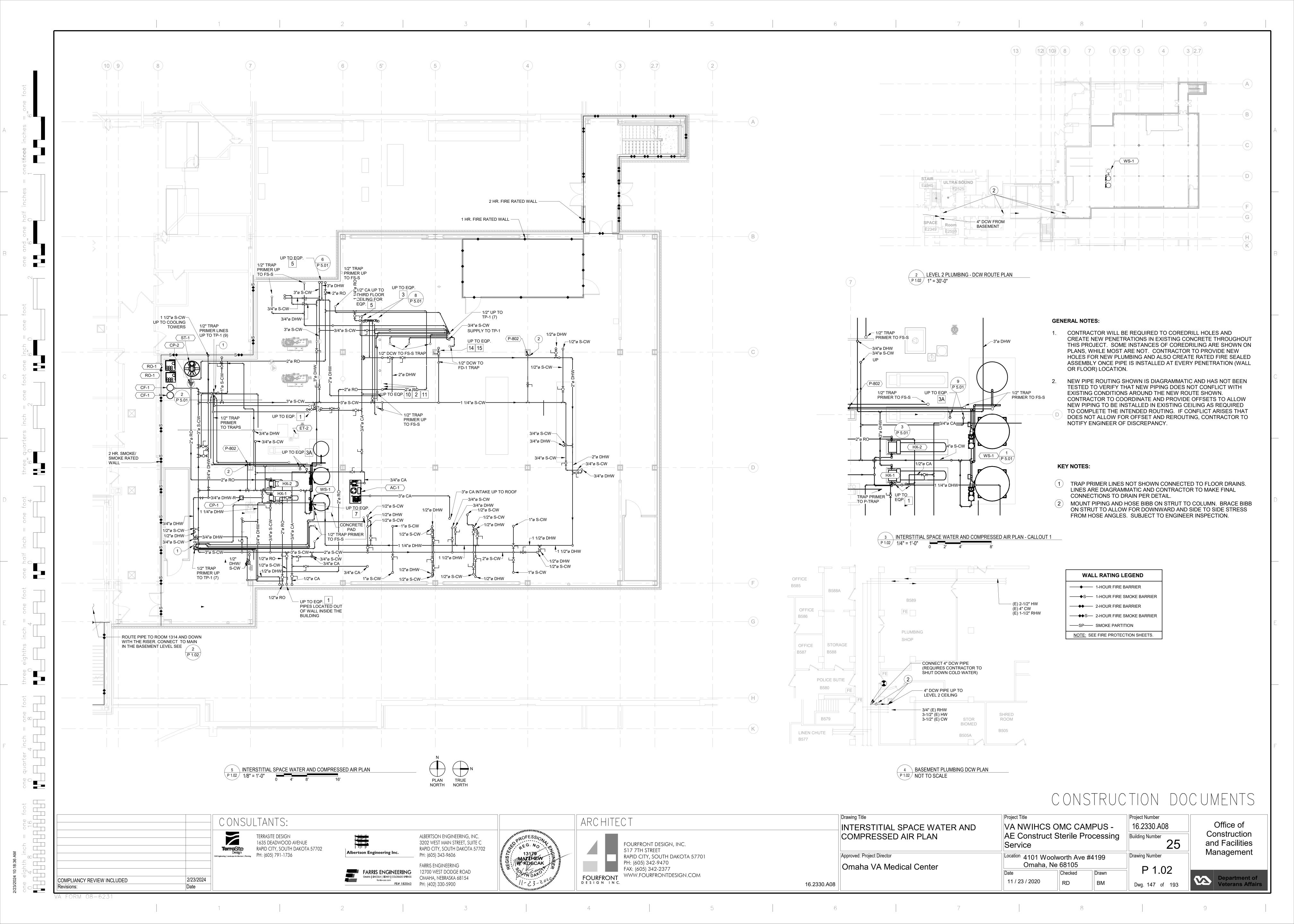
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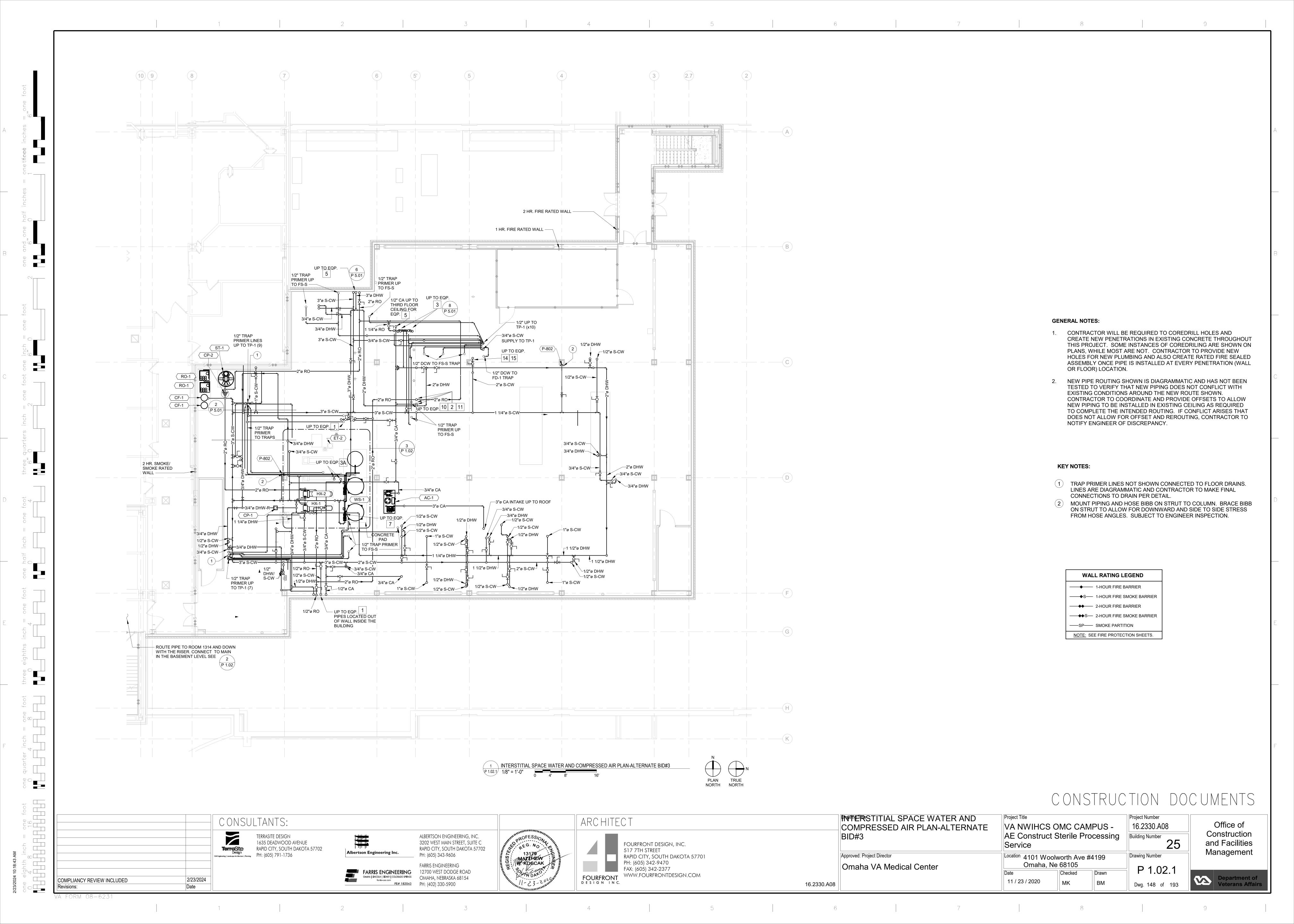
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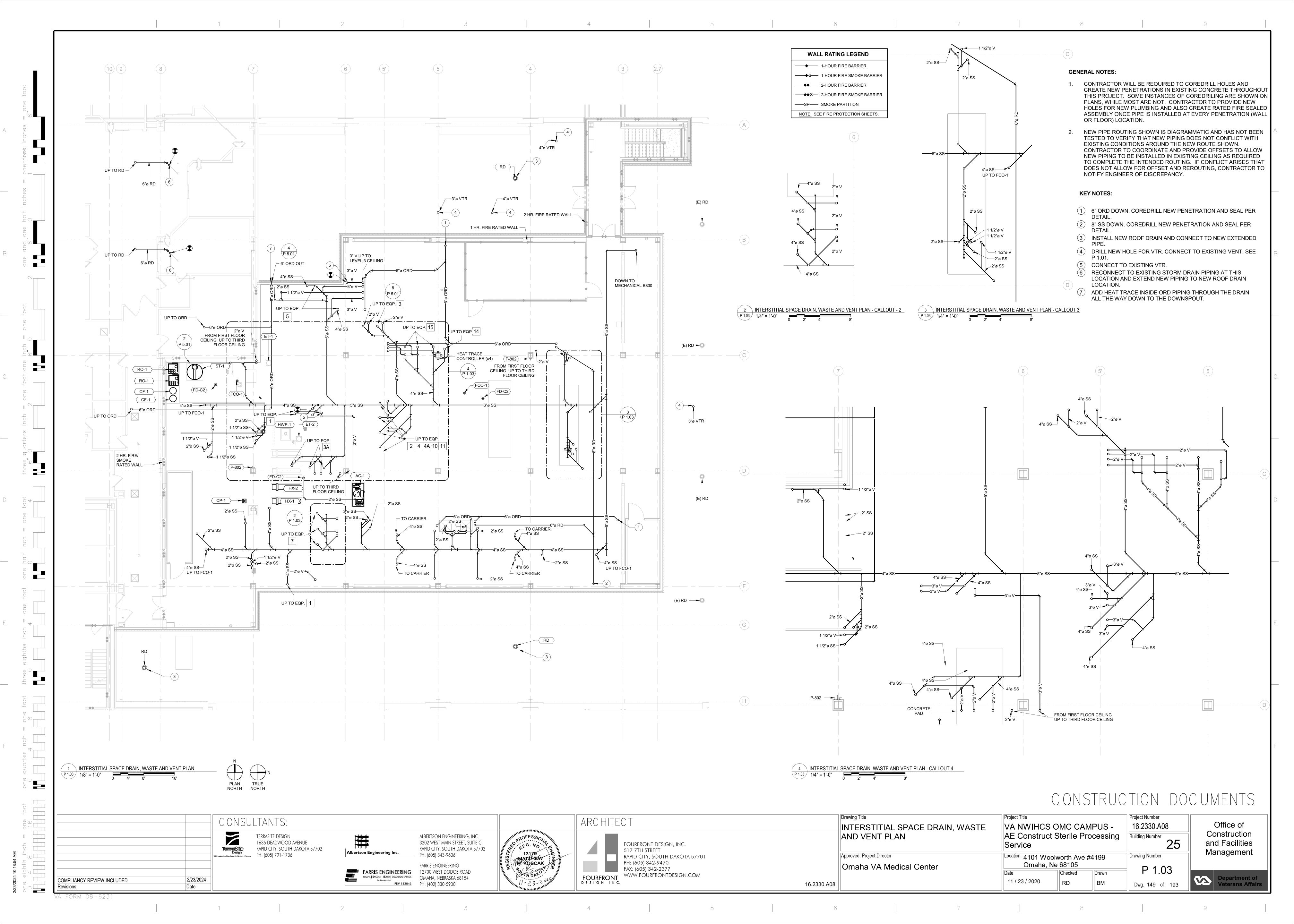
FE# 182043 PH: (402) 330-5900 Date

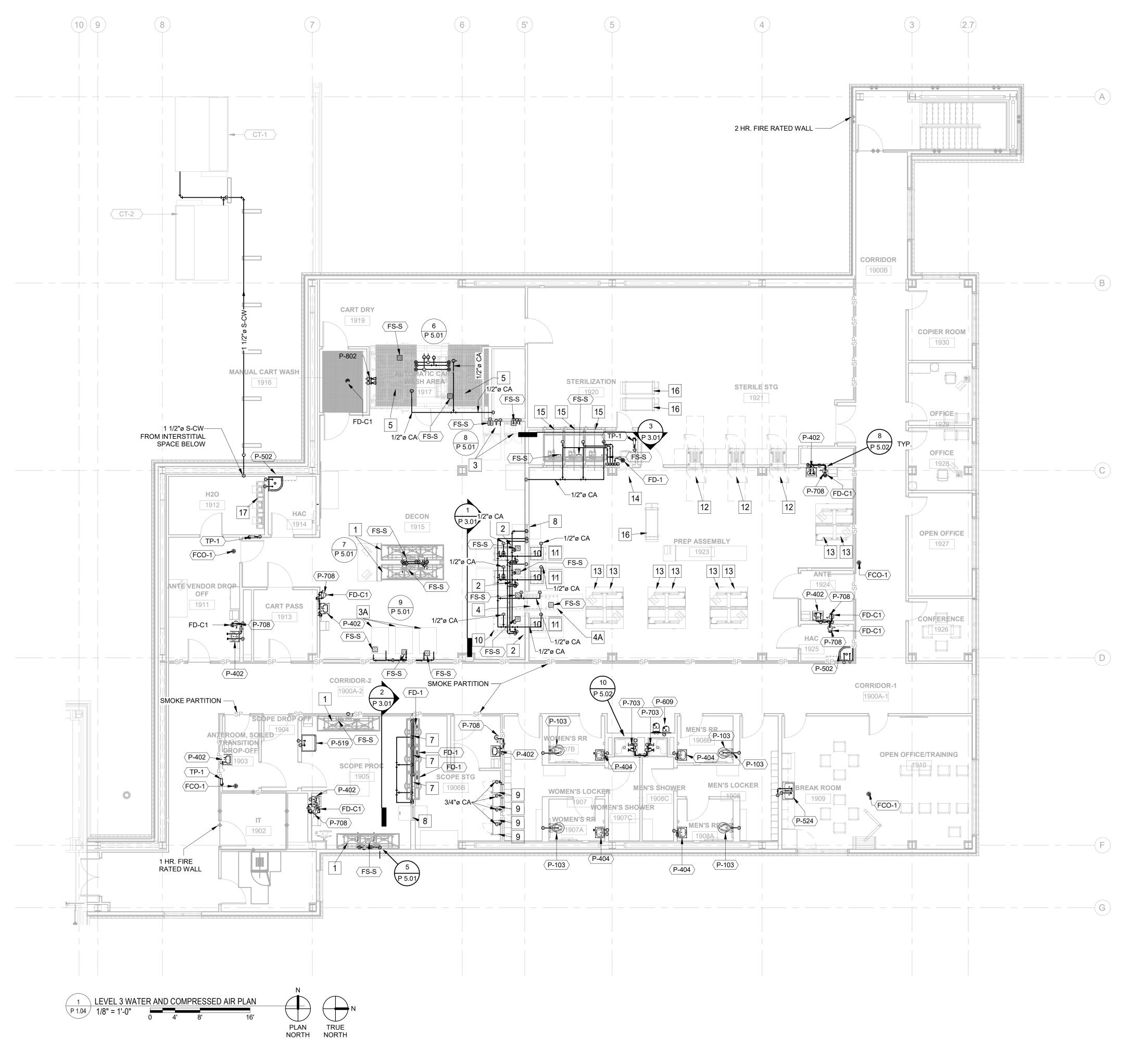












GENERAL NOTES:

- CONTRACTOR WILL BE REQUIRED TO COREDRILL HOLES AND CREATE NEW PENETRATIONS IN EXISTING CONCRETE THROUGHOUT THIS PROJECT. SOME INSTANCES OF COREDRILING ARE SHOWN ON PLANS, WHILE MOST ARE NOT. CONTRACTOR TO PROVIDE NEW HOLES FOR NEW PLUMBING AND ALSO CREATE RATED FIRE SEALED ASSEMBLY ONCE PIPE IS INSTALLED AT EVERY PENETRATION (WALL OR FLOOR) LOCATION.
- NEW PIPE ROUTING SHOWN IS DIAGRAMMATIC AND HAS NOT BEEN TESTED TO VERIFY THAT NEW PIPING DOES NOT CONFLICT WITH EXISTING CONDITIONS AROUND THE NEW ROUTE SHOWN. CONTRACTOR TO COORDINATE AND PROVIDE OFFSETS TO ALLOW NEW PIPING TO BE INSTALLED IN EXISTING CEILING AS REQUIRED TO COMPLETE THE INTENDED ROUTING. IF CONFLICT ARISES THAT DOES NOT ALLOW FOR OFFSET AND REROUTING, CONTRACTOR TO NOTIFY ENGINEER OF DISCREPANCY.

	SPS EQUIPMI	ENT UTIL	LITY	CONNE	ECTIC	N SCHE	DULE					
			MECH	IANICAL PIPE	CONNEC	TIONS (STEAM)		PLUM	IBING C	ONNECT	IONS	
MANUFAC		EQUIPMENT			SUPPLY	CONDENSATE		DCW		PURE	COMPRESSED	.]
TURER	MODEL/ DESCRIPTION	TAG	SIZE	PRESSURE	SIZE	RETURN	WASTE	SOFT	DHW	WATER	AIR	NOTES
STERIS	COUNTER, CLEANUP, WITH 3 SINKS	1	-	-	-	-	1-1/2"	1/2"	1/2"	1/2"	1/4"	-
STERIS	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	2	3" OD	30-80 PSIG MAX 90	1/2"	1/2"	4" FS	1/2"	1/2"	1/2"	1/8"	1
STERIS	INNOWAVE PCF SONIC IRRIGATOR	3	-	-	-	-	3/4"	3/4"	3/4"	3/4"	-	2
STERIS	INNOWAVE UNITY ULTRASONIC IRRIGATOR	3A	-	-	-	-	3/4"	3/4"	3/4"	-	-	2
STERIS	RACK RETURN, LOAD/UNLOAD	4	-	-	-	-	1-1/2"	-	-	-	1/4"	-
STERIS	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	5	6" OD	30-80 PSIG	1-1/2"	1"	4"	1"	1"	3/4"	1/2"	1
	CART, SCOPE, TRANSPORT	6	-	-	ı	-	-	-	-	-	-	-
CANTEL	WASHER, FIBER SCOPE, PASS-THROUGH	7	4"	-	ı	-	4" FD	1/2"	1/2"	-	1/4"	3
STERIS	40" AUTOMATED PASS-THROUGH WINDOW	8	-	-	ı	-	-	-	-	-	-	-
CANTEL	CABINET, STORAGE, HANGING SCOPES	9	-	-	ı	-	-	-	-	-	1/4	-
	RACK, STERILE WRAP	4A,10	-	-	-	-	1-1/2"	-	-	-	1/4"	5
	CART, WASHER TRANSFER	11	-	-	-	-	-	-	-	-	-	-
STERIS	LOW TEMPERATURE STERILIZER	12	-	-	-	-	-	-	-	-	-	-
	ADJUSTABLE DELUXEWORKSTATION	13	-	-	-	-	-	-	-	-	-	-
STERIS	AMSCO 400 SERIES SMALL STEAM STERILIZER	14	-	-	1/2"	-	1-1/2"	1"	-	-	-	4
STERIS	AMSCO 600 MEDIUM STEAM STERILIZER	15	-	-	1/2"	-	1-1/2"	3/4"	-	-	1/2"	4
STERIS	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	16	-	-	-	-	-	-	-	-	-	-
STERIS	DISPENSER, DETERGENT, AUTOMATIC	17	-	-	-	-	-	-	-	-	-	-

GENERAL NOTE: ALL MEDICAL EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT BY THE GENERAL CONTRACTOR. PLUMBING AND MECHANICAL CONTRACTORS TO PROVIDE ALL PROPER UTILITY CONNECTIONS AND ACCESSORIES PER THIS SCHEDULE AND EQUIPMENT MANUFACTURER WRITTEN INSTRUCTIONS.

PROVIDE WATER LINES WITH ISOLATION VALVES, UNIONS, WATER HAMMER ARRESTORS AND VACUUM BREAKERS.

EQUIPMENT HAS INTEGRAL AIR GAP AND OVERFLOW IN WATER SUPPLY. PROVIDE WITH THERMOSTATIC MIXING VALVE, ISOLATION VALVES, PRESSURE REGULATORS, PRESSURE GAUGES, TEMPURATURE GAUGES AND BYPASS TO FLOOR DRAIN. PROVIDE WITH ISOLATION VALVES, UNION, TEST PORT CONNECTION, AND VACUUM BREAKER FOR WATER SUPPLY.

PIPE DRAIN TO SAME FLOOR SINK FOR EQUIPMENT 2.

WALL RATING LEGEND
→ 1-HOUR FIRE BARRIER
——◆S— 1-HOUR FIRE SMOKE BARRIER
— ◆◆ 2-HOUR FIRE BARRIER
——◆◆S— 2-HOUR FIRE SMOKE BARRIER
NOTE: SEE FIRE PROTECTION SHEETS.
<u> </u>

TAG	JSN	NAME 0	YTÇ	ROOM NO. 1915	BASIS OF DESIG	N UTILITY REQUESTS
01	A1195	COUNTER, CLEANUP, WITH 3 SINKS.	4	1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A
02	S0940	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, CR, HW, CW, PW, D, A
03	-	INNOWAVE PCF SONIC IRRIGATOR	2	1915	STERIS	208V, 30A, 3-Ph, 60HZ, HW, CW, PW, D
3A		TRITEC 72	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D
04	F2410	RACK RETURN	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A
4A		SCS LOAD-UNLOAD	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A
		1917 - AUTOMATIC CARTWASH AREA (CWSH2)		1917		
05	S3185	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,
		1905 - SCOPE PROCESSING		1905		
06	F0540	CART, SCOPE, TRANSPORT	1	1905		
07	S2627	WASHER, FIBER SCOPE, PASS-THROUGH	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW
08	S1905	40" AUTOMATED PASS-THROUGH WINDOW	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A; 208V, 60Hz, 3-Ph, 15A
		1906 - SCOPE STAGING ROOM (CSST1)		1906		
09	M3160	CABINET, STORAGE, HANGING SCOPES	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A
		1923 - PREP ASSEMBLY		1923		
10	S0047	SCS LOAD-UNLOAD	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A
11	S0048	CART, WASHER TRANSFER	3	1923		
12	-	LOW TEMPERATURE STERILIZER	3	1923	AMSCO	200-208V, 50-60HZ
13	S9610	ADJUSTABLE DELUXE WORKSTATION	8	1915, 1923		
14	-	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D
		1920 -STERILIZATION		1920		
15	-	AMSCO 600 MEDIUM STEAM STERILIZER	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A
16	S0495	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	6	1920	STERIS	
		1912 - H2O		1912		
17	K2020	DISPENSER, DETERGENT, AUTOMATIC	1	1912	STERIS	
18	M4871	SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN	
19	-	TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro	



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	SPS EQUIPME	ENT UTII	LITY	CONNE	ECTIC	N SCHEE	DULE					
			MECH	IANICAL PIPE	CONNEC	TIONS (STEAM)		PLUM	IBING C	ONNECTI	ONS	
MANUFAC		EQUIPMENT			SUPPLY	CONDENSATE		DCW		PURE	COMPRESSED	,
TURER	MODEL/ DESCRIPTION	TAG	SIZE	PRESSURE	SIZE	RETURN	WASTE	SOFT	DHW	WATER	AIR	NOTES
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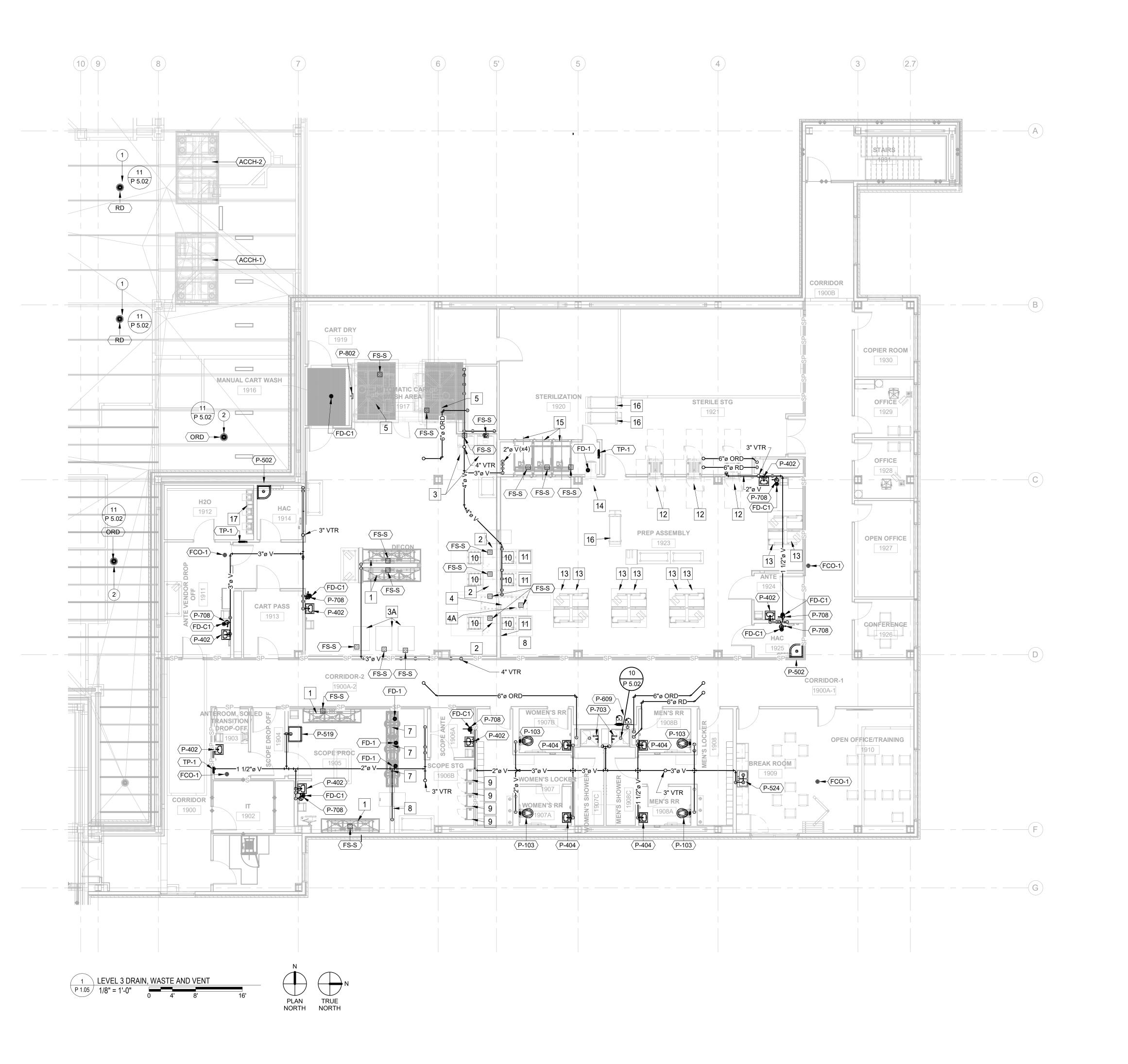
NOTES: 1. PROVIDE WATER LINES WITH ISOLATION VALVES, UNIONS, WATER HAMMER ARRESTORS AND VACUUM BREAKERS.

- 2. EQUIPMENT HAS INTEGRAL AIR GAP AND OVERFLOW IN WATER SUPPLY.
 3. PROVIDE WITH THERMOSTATIC MIXING VALVE, ISOLATION VALVES, PRESSURE REGULATORS, PRESSURE GAUGES, TEMPURATURE GAUGES AND BYPASS TO FLOOR DRAIN.
- PROVIDE WITH THERMOSTATIC MIXING VALVE, ISOLATION VALVES, PRESSURE REGULATORS, PRESSURE GAUGES, TEMPURATURE GAUGES AND BYPASS TO FLOOR DRAIN.
 PROVIDE WITH ISOLATION VALVES, UNION, TEST PORT CONNECTION, AND VACUUM BREAKER FOR WATER SUPPLY.
 PIPE DRAIN TO SAME FLOOR SINK FOR EQUIPMENT 2.

	WALL RATING LEGEND
-	→ 1-HOUR FIRE BARRIER
-	→S— 1-HOUR FIRE SMOKE BARRIER
-	◆◆ 2-HOUR FIRE BARRIER
-	→ S— 2-HOUR FIRE SMOKE BARRIER
_	——SP—— SMOKE PARTITION
	NOTE: SEE FIRE PROTECTION SHEETS.

1915 DECON 01 A1195 COUNTER, CLEANUP, WITH 3 SINKS. 02 S0940 WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM 03 - INNOWAVE PCF SONIC IRRIGATOR 3A TRITEC 72 04 F2410 RACK RETURN SCS LOAD-UNLOAD 1917 - AUTOMATIC CARTWASH AREA (CWSH2) 05 S3185 WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL 1905 - SCOPE PROCESSING 06 F0540 CART, SCOPE, TRANSPORT 07 S2627 WASHER, FIBER SCOPE, PASS-THROUGH 08 S1905 40" AUTOMATED PASS-THROUGH WINDOW 1906 - SCOPE STAGING ROOM (CSST1) 09 M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 1912 - H2O	QTY 4	ROOM NO. 1915	BASIS OF DESIG	
D2	4	1913	DAGIO OI DEGIO	N UTILITY REQUESTS
O3		1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A
TRITEC 72	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, CR, HW, CW, PW, D, A
P2410 RACK RETURN	2	1915	STERIS	208V, 30A, 3-Ph, 60HZ, HW, CW, PW, D
AA SCS LOAD-UNLOAD 1917 - AUTOMATIC CARTWASH AREA (CWSH2) 05	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D
1917 - AUTOMATIC CARTWASH AREA (CWSH2) 05	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A
D5	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A
1905 - SCOPE PROCESSING 06 F0540 CART, SCOPE, TRANSPORT 07 S2627 WASHER, FIBER SCOPE, PASS-THROUGH 08 S1905 40" AUTOMATED PASS-THROUGH WINDOW 1906 - SCOPE STAGING ROOM (CSST1) 09 M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O		1917		
06 F0540 CART, SCOPE, TRANSPORT 07 S2627 WASHER, FIBER SCOPE, PASS-THROUGH 08 S1905 40" AUTOMATED PASS-THROUGH WINDOW 1906 - SCOPE STAGING ROOM (CSST1) 09 M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 -STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x26.5"x63" CHAMBER 1912 - H2O	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,
S2627 WASHER, FIBER SCOPE, PASS-THROUGH S1905 40" AUTOMATED PASS-THROUGH WINDOW 1906 - SCOPE STAGING ROOM (CSST1) M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY S0047 SCS LOAD-UNLOAD S0048 CART, WASHER TRANSFER LOW TEMPERATURE STERILIZER S9610 ADJUSTABLE DELUXE WORKSTATION AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O		1905		
1906 - SCOPE STAGING ROOM (CSST1) 1906 - SCOPE STAGING ROOM (CSST1) 1909 M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY 100 S0047 SCS LOAD-UNLOAD 111 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 131 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 1912 - H20	1	1905		
1906 - SCOPE STAGING ROOM (CSST1) 1908 M3160 CABINET, STORAGE, HANGING SCOPES 1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 1912 - H20	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW
1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 1912 - H2O	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A; 208V, 60Hz, 3-Ph, 15A
1923 - PREP ASSEMBLY 10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O		1906		
10 S0047 SCS LOAD-UNLOAD 11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 -STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A
11 S0048 CART, WASHER TRANSFER 12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 -STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O		1923		
12 - LOW TEMPERATURE STERILIZER 13 S9610 ADJUSTABLE DELUXE WORKSTATION 14 - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 -STERILIZATION 15 - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A
S9610 ADJUSTABLE DELUXE WORKSTATION - AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 - STERILIZATION - AMSCO 600 MEDIUM STEAM STERILIZER S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	3	1923		
- AMSCO 400 SERIES SMALL STEAM STERILIZER 1920 -STERILIZATION - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	3	1923	AMSCO	200-208V, 50-60HZ
1920 -STERILIZATION - AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	8	1915, 1923		
- AMSCO 600 MEDIUM STEAM STERILIZER 16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D
16 S0495 LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER 1912 - H2O		1920		
1912 - H2O	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A
	6	1920	STERIS	
K2020 DISPENSER DETERGENT AUTOMATIC		1912		
List Side Enderty Serendently Not Office 110	1	1912	STERIS	
M4871 SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN	
- TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro	





GENERAL NOTES:

WALL RATING LEGEND

1-HOUR FIRE BARRIER

→S— 1-HOUR FIRE SMOKE BARRIER

→+ 2-HOUR FIRE BARRIER

→+S— 2-HOUR FIRE SMOKE BARRIER

—SP— SMOKE PARTITION

NOTE: SEE FIRE PROTECTION SHEETS.

1. CONTRACTOR WILL BE REQUIRED TO COREDRILL HOLES AND CREATE NEW PENETRATIONS IN EXISTING CONCRETE THROUGHOUT THIS PROJECT. SOME INSTANCES OF COREDRILING ARE SHOWN ON PLANS, WHILE MOST ARE NOT. CONTRACTOR TO PROVIDE NEW HOLES FOR NEW PLUMBING AND ALSO CREATE RATED FIRE SEALED ASSEMBLY ONCE PIPE IS INSTALLED AT EVERY PENETRATION (WALL OR FLOOR) LOCATION.

2. NEW PIPE ROUTING SHOWN IS DIAGRAMMATIC AND HAS NOT BEEN TESTED TO VERIFY THAT NEW PIPING DOES NOT CONFLICT WITH EXISTING CONDITIONS AROUND THE NEW ROUTE SHOWN. CONTRACTOR TO COORDINATE AND PROVIDE OFFSETS TO ALLOW NEW PIPING TO BE INSTALLED IN EXISTING CEILING AS REQUIRED TO COMPLETE THE INTENDED ROUTING. IF CONFLICT ARISES THAT DOES NOT ALLOW FOR OFFSET AND REROUTING, CONTRACTOR TO NOTIFY ENGINEER OF DISCREPANCY.

KEY NOTES:

1 INSTALL NEW ROOF DRAIN AND CONNECT TO NEW EXTENDED PIPE.
2 ADD HEAT TRACE INSIDE ORD PIPING THROUGH THE DRAIN ALL THE WAY DOWN TO THE DOWNSPOUT.

	SPS EQUIPMI	ENT UTIL	LITY	CONNE	ECTIO	N SCHE	DULE					
			MECH	IANICAL PIPE	CONNEC	TIONS (STEAM)		PLUM	IBING C	ONNECT	IONS	
MANUFAC		EQUIPMENT			SUPPLY	CONDENSATE		DCW		PURE	COMPRESSED	1
TURER	MODEL/ DESCRIPTION	TAG	SIZE	PRESSURE	SIZE	RETURN	WASTE	SOFT	DHW	WATER	AIR	NOTES
STERIS	COUNTER, CLEANUP, WITH 3 SINKS	1	-	-	-	-	1-1/2"	1/2"	1/2"	1/2"	1/4"	-
STERIS	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	2	3" OD	30-80 PSIG MAX 90	1/2"	1/2"	4" FS	1/2"	1/2"	1/2"	1/8"	1
STERIS	INNOWAVE PCF SONIC IRRIGATOR	3	-	-	-	-	3/4"	3/4"	3/4"	3/4"	-	2
STERIS	INNOWAVE UNITY ULTRASONIC IRRIGATOR	3A	-	-	-	-	3/4"	3/4"	3/4"	-	-	2
STERIS	RACK RETURN, LOAD/UNLOAD	4	-	-	-	-	1-1/2"		-	-	1/4"	-
STERIS	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	5	6" OD	30-80 PSIG	1-1/2"	1"	4"	1"	1"	3/4"	1/2"	1
	CART, SCOPE, TRANSPORT	6	-	-	-	-	-	-	-	-	-	-
CANTEL	WASHER, FIBER SCOPE, PASS-THROUGH	7	4"	-	-	-	4" FD	1/2"	1/2"	-	1/4"	3
STERIS	40" AUTOMATED PASS-THROUGH WINDOW	8	-	-	-	-	-	-	-	-	-	-
CANTEL	CABINET, STORAGE, HANGING SCOPES	9	-	-	-	-	-	-	-	-	1/4	-
	RACK, STERILE WRAP	4A,10	-	-	-	-	1-1/2"	-	-	-	1/4"	5
	CART, WASHER TRANSFER	11	-	-	-	-	-	-	-	-	-	-
STERIS	LOW TEMPERATURE STERILIZER	12	-	-	-	-	-	-	-	-	-	-
	ADJUSTABLE DELUXEWORKSTATION	13	-	-	-	-	-	-	-	-	-	-
STERIS	AMSCO 400 SERIES SMALL STEAM STERILIZER	14	-	-	1/2"	-	1-1/2"	1"	-	-	-	4
STERIS	AMSCO 600 MEDIUM STEAM STERILIZER	15	-	-	1/2"	-	1-1/2"	3/4"	-	-	1/2"	4
STERIS	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	16	-	-	-	-	-	1	-	-	-	-
STERIS	DISPENSER, DETERGENT, AUTOMATIC	17	-	-	-	-	-	-	-	-	-	

GENERAL NOTE: ALL MEDICAL EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT BY THE GENERAL CONTRACTOR. PLUMBING AND MECHANICAL CONTRACTORS TO PROVIDE ALL PROPER UTILITY CONNECTIONS AND ACCESSORIES PER THIS SCHEDULE AND EQUIPMENT MANUFACTURER WRITTEN INSTRUCTIONS.

NOTES:

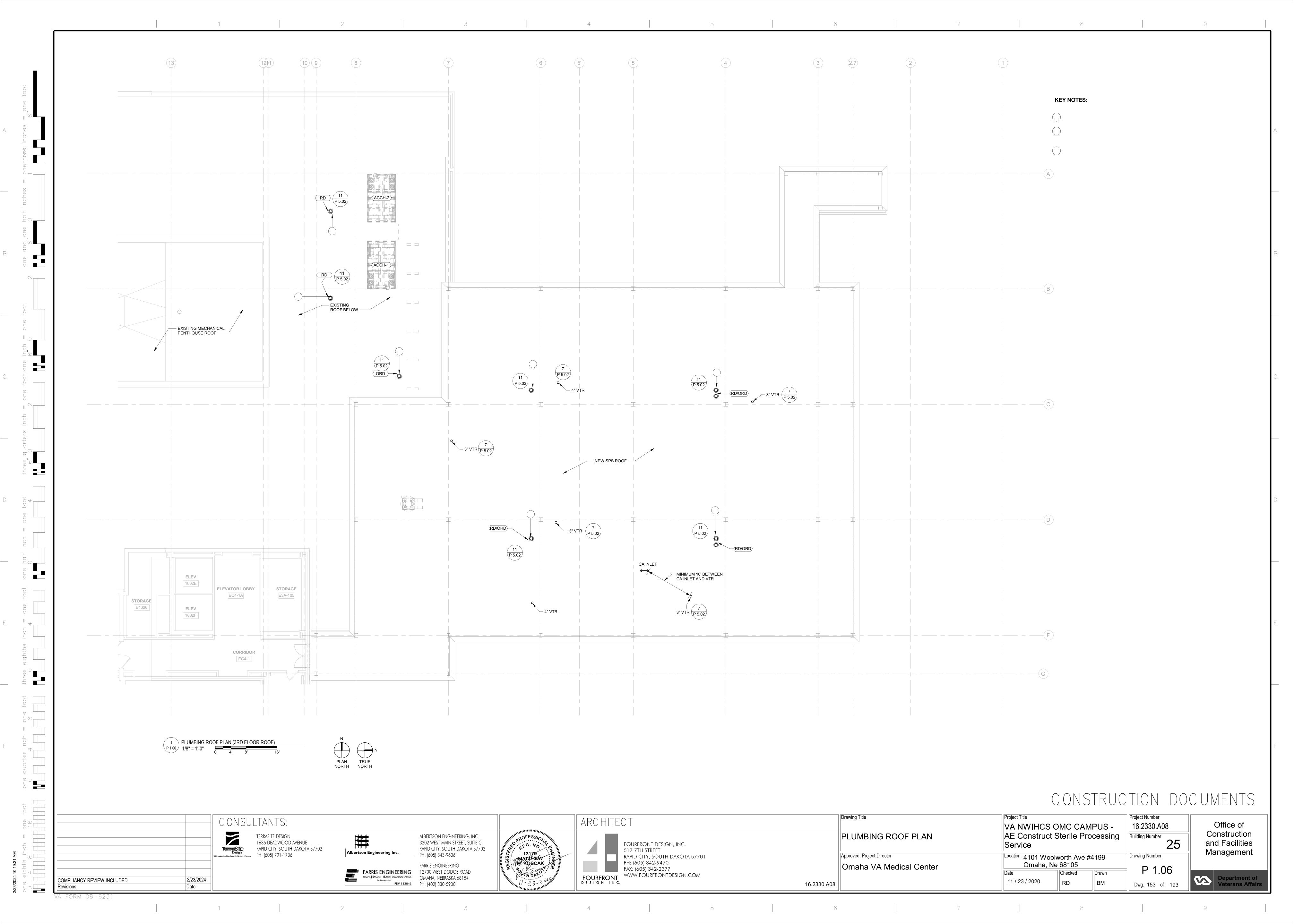
1. PROVIDE WATER LINES WITH ISOLATION VALVES, UNIONS, WATER HAMMER ARRESTORS AND VACUUM BREAKERS.

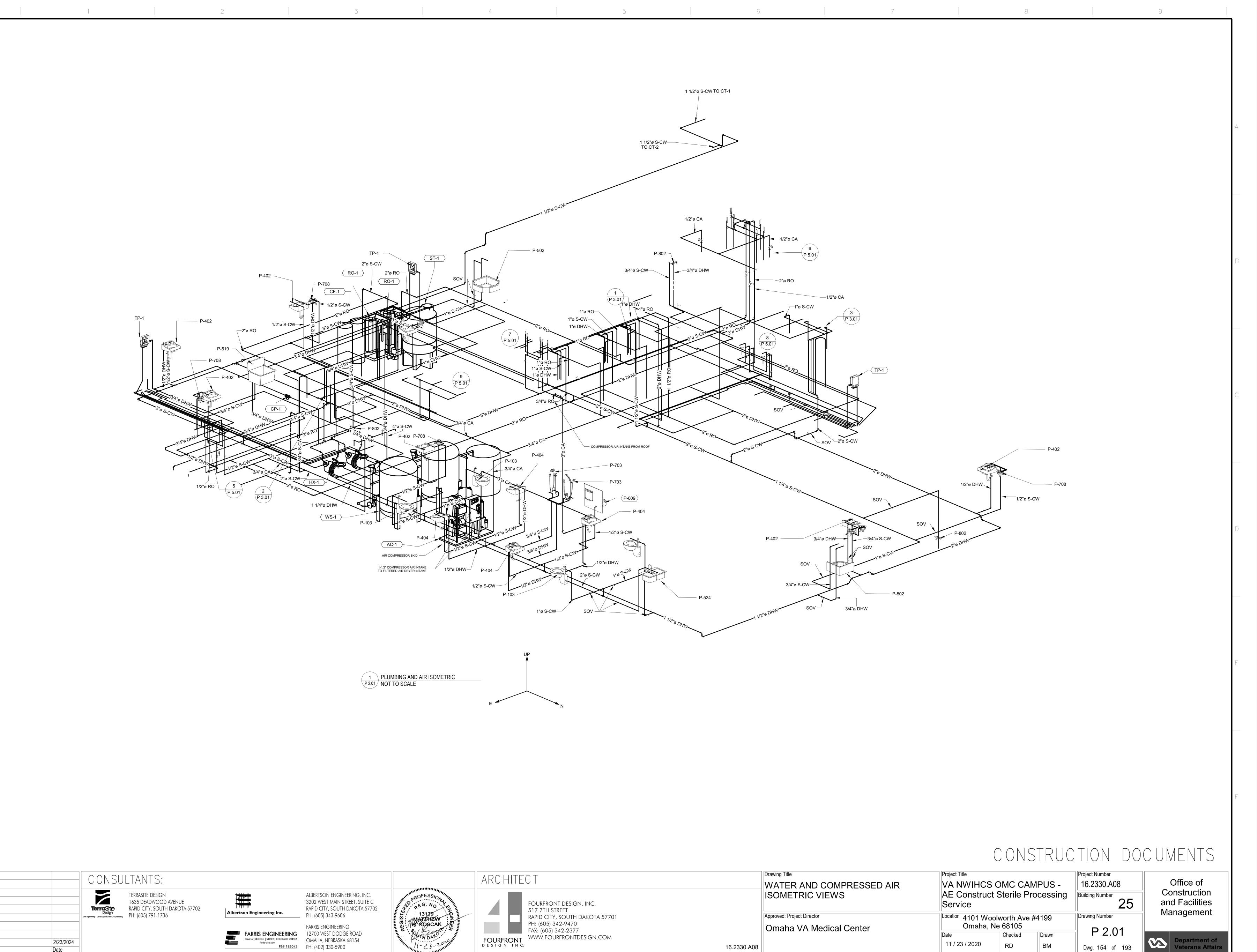
EQUIPMENT HAS INTEGRAL AIR GAP AND OVERFLOW IN WATER SUPPLY.
PROVIDE WITH THERMOSTATIC MIXING VALVE, ISOLATION VALVES, PRESSURE REGULATORS, PRESSURE GAUGES, TEMPURATURE GAUGES AND BYPASS TO FLOOR DRAIN.
PROVIDE WITH ISOLATION VALVES, UNION, TEST PORT CONNECTION, AND VACUUM BREAKER FOR WATER SUPPLY.

4. PROVIDE WITH ISOLATION VALVES, UNION, TEST POR 5. PIPE DRAIN TO SAME FLOOR SINK FOR EQUIPMENT 2.

TAG	JSN	NAME C	TY	ROOM NO.	BASIS OF DESIG	N UTILITY REQUESTS
IAU	3311	1915 DECON	(1.1	1915	DAGIO OI DEGIO	NOTICITY NEGOCOTO
01	A1195	COUNTER, CLEANUP, WITH 3 SINKS.	4	1915, 1905	STERIS	120V, 15A, LIFT SYSTEM - 120VAC, 3A, HW, CW, PW, D, A
02	S0940	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	3	1915	STERIS	480V, 30A, 3-PH, 60HZ, S, CR, HW, CW, PW, D, A
03	-	INNOWAVE PCF SONIC IRRIGATOR	2	1915	STERIS	208V, 30A, 3-Ph, 60HZ, HW, CW, PW, D
3A		TRITEC 72	3	1915	STERIS	208V, 20A, 1-PH, 60HZ, HW, CW, D
04	F2410	RACK RETURN	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, A
4A		SCS LOAD-UNLOAD	1	1915	STERIS	120V, 15A, 1-PH, 60HZ, D, A
		1917 - AUTOMATIC CARTWASH AREA (CWSH2)		1917		
05	S3185	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	2	1917	STERIS	480V, 50/60HZ, PW, HW, CW, S, A, D,
		1905 - SCOPE PROCESSING		1905		
06	F0540	CART, SCOPE, TRANSPORT	1	1905		
07	S2627	WASHER, FIBER SCOPE, PASS-THROUGH	3	1905	MEDIVATOR	120V, 60HZ, D, A, HW, CW
08	S1905	40" AUTOMATED PASS-THROUGH WINDOW	2	1915, 1905	STERIS	230V, 60Hz, 1-Ph, 15A; 208V, 60Hz, 3-Ph, 15A
		1906 - SCOPE STAGING ROOM (CSST1)		1906		
09	M3160	CABINET, STORAGE, HANGING SCOPES	4	1906	MEDIVATOR	100-240VAC, 50/60HZ, 15A, A
		1923 - PREP ASSEMBLY		1923		
10	S0047	SCS LOAD-UNLOAD	6	1923	STERIS	120V, 15A, 1-PH, 60HZ, D, A
11	S0048	CART, WASHER TRANSFER	3	1923		
12	-	LOW TEMPERATURE STERILIZER	3	1923	AMSCO	200-208V, 50-60HZ
13	S9610	ADJUSTABLE DELUXE WORKSTATION	8	1915, 1923		
14	-	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	1923	STERIS	480V, 60HZ, 3-PH, 4A, 120V, 60HZ, 1-PH, 15A, S, CW, D
		1920 -STERILIZATION		1920		
15	-	AMSCO 600 MEDIUM STEAM STERILIZER	3	1920	STERIS	480V, 60HZ, 3-PH, 20A, S, CW, D, A
16	S0495	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	6	1920	STERIS	
		1912 - H2O		1912		
17	K2020	DISPENSER, DETERGENT, AUTOMATIC	1	1912	STERIS	
18	M4871	SYSTEM, REVERSE OSMOSIS, WATER	1	1912	CULLIGAN	
19	-	TRACK MOUNTED - SUSPENDED SHELVING	2	1921	LEVpro	







FOURFRONT DESIGNING.

16.2330.A08

Checked

RD

11 / 23 / 2020

Dwg. 154 of 193

Department of

Veterans Affairs

one eighth inch = one foot

0 4 8 16

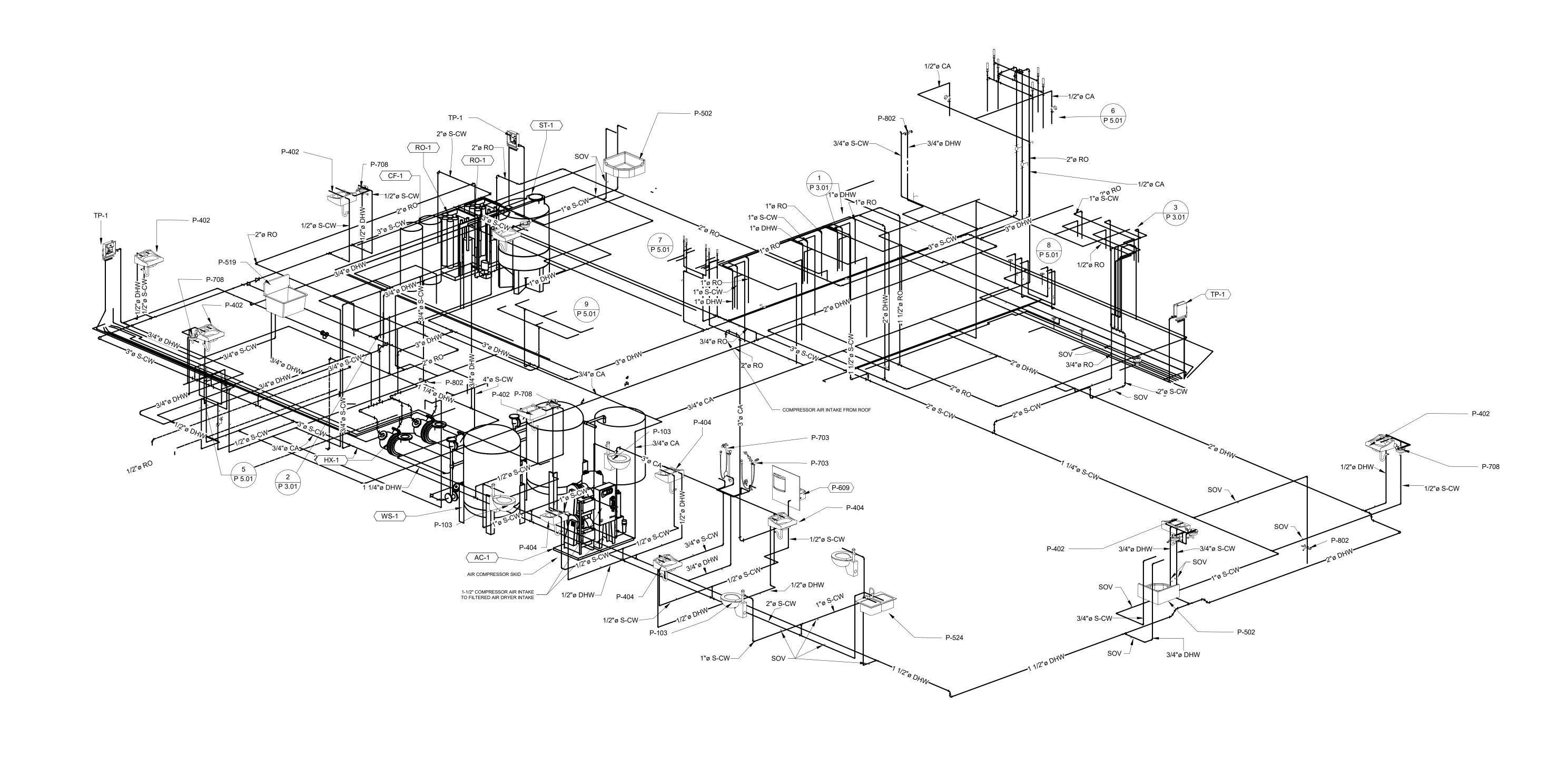
HELLER HELLER HELLER

COMPLIANCY REVIEW INCLUDED

Revisions:

2/23/2024

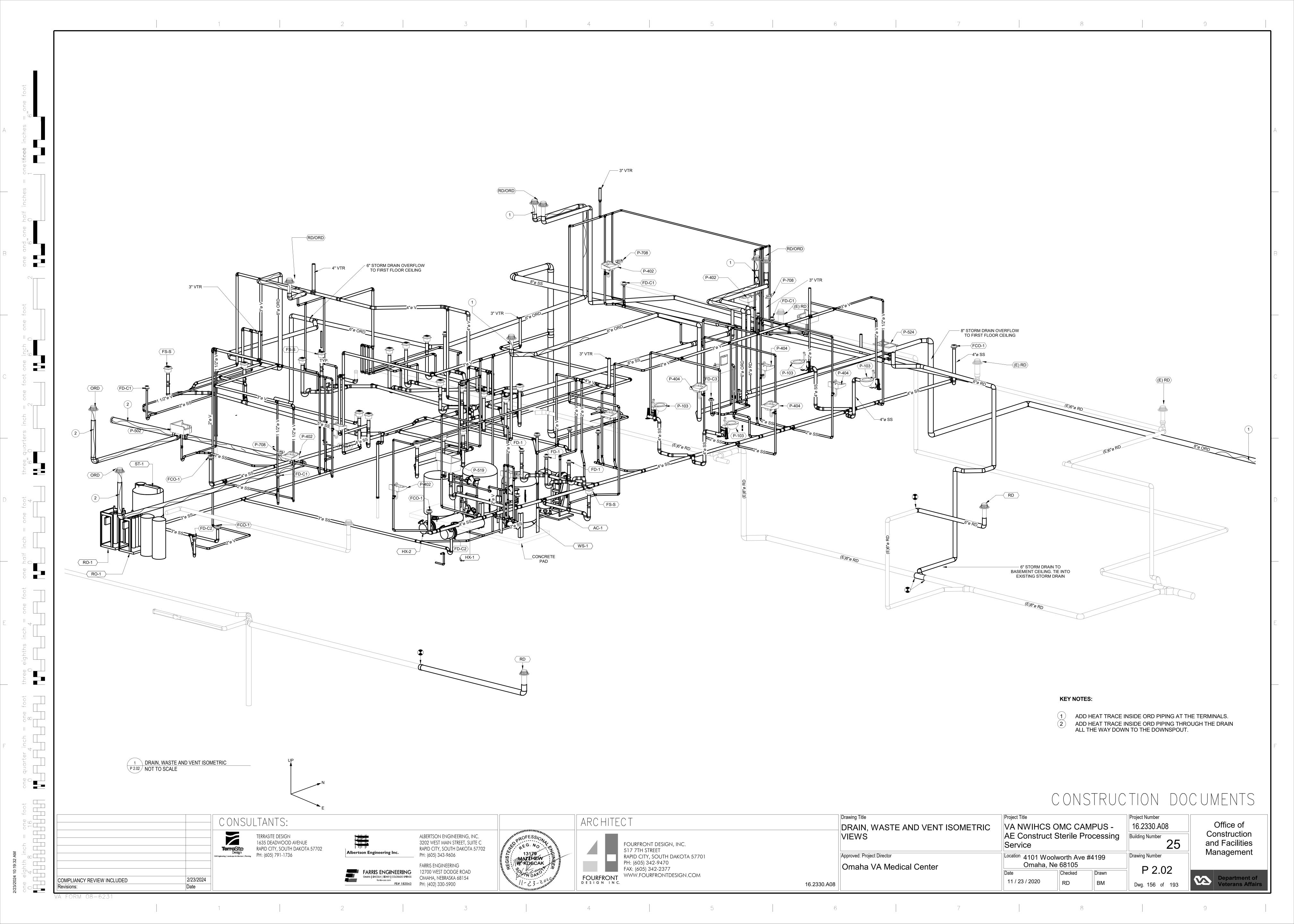
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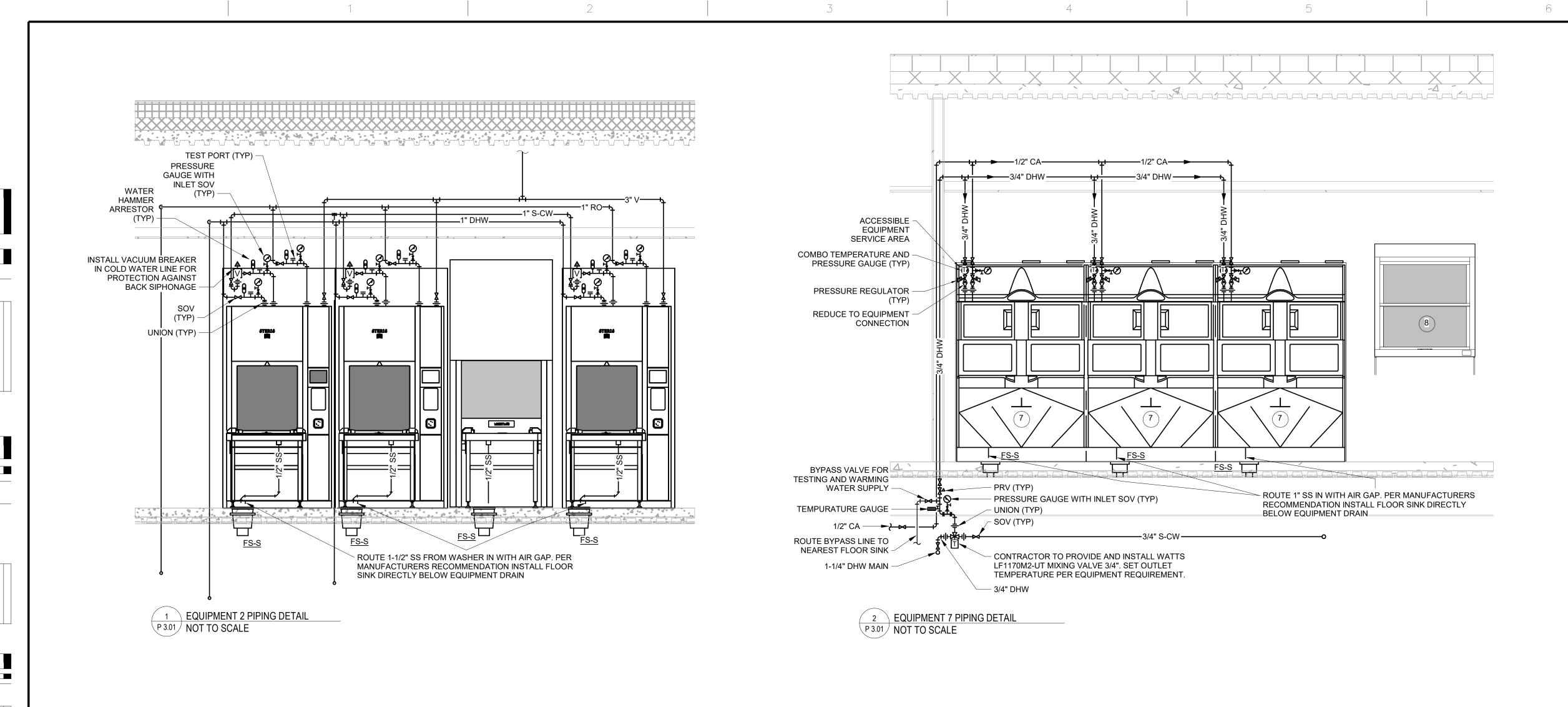


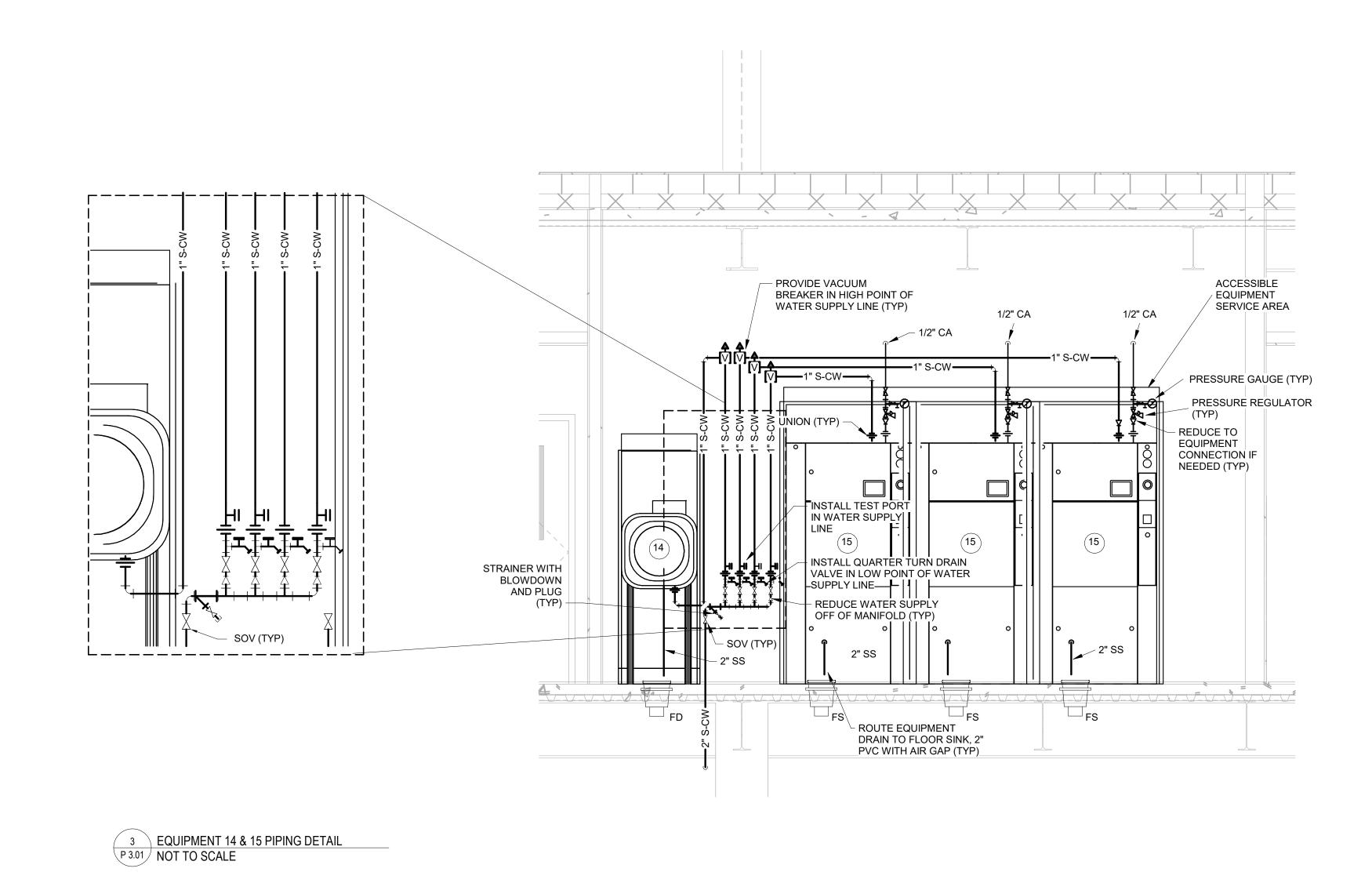
1 PLUMBING AND AIR ISOMETRIC ALTERNATE BID#3 NOT TO SCALE

CONSTRUCTION DOCUMENTS

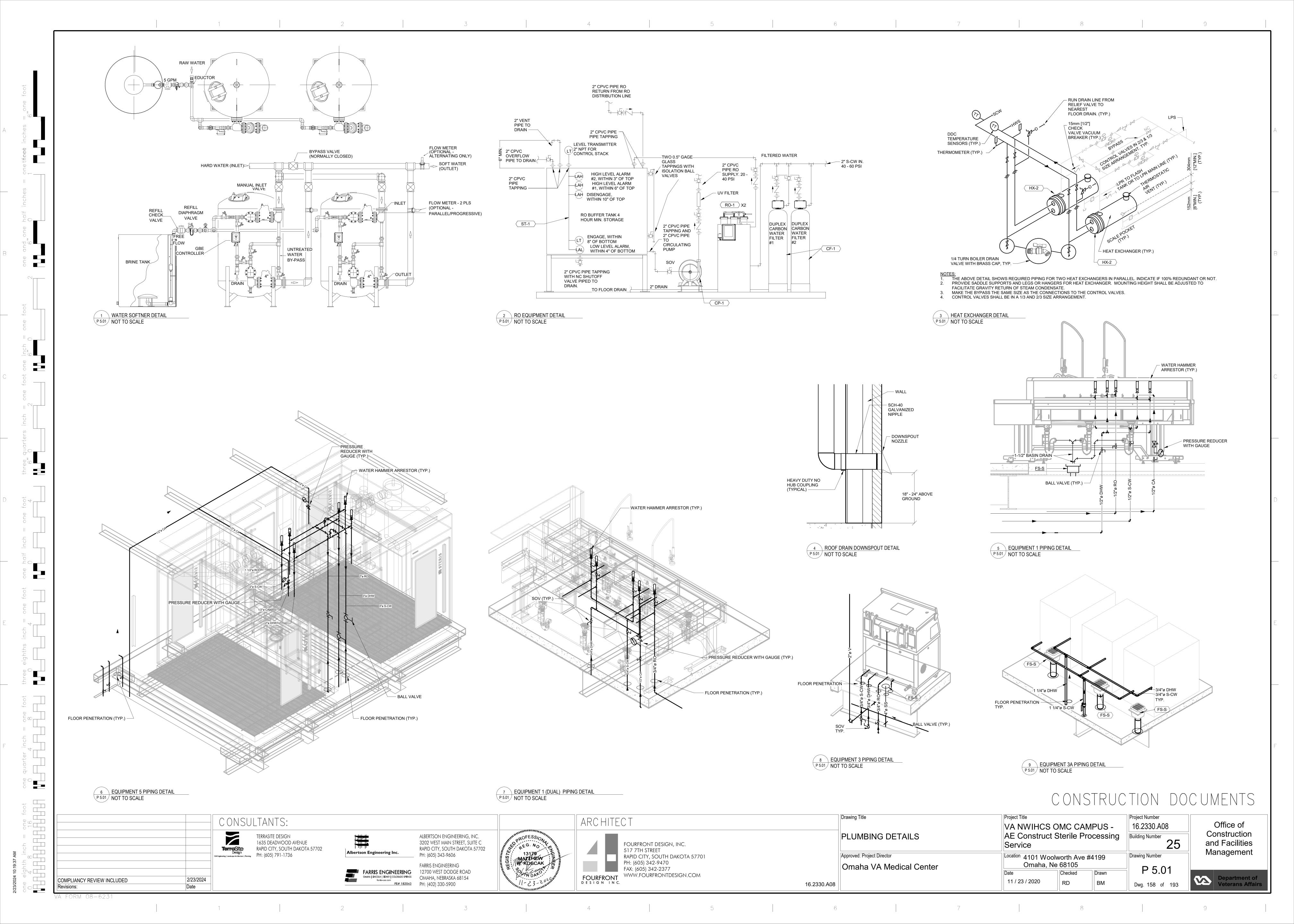


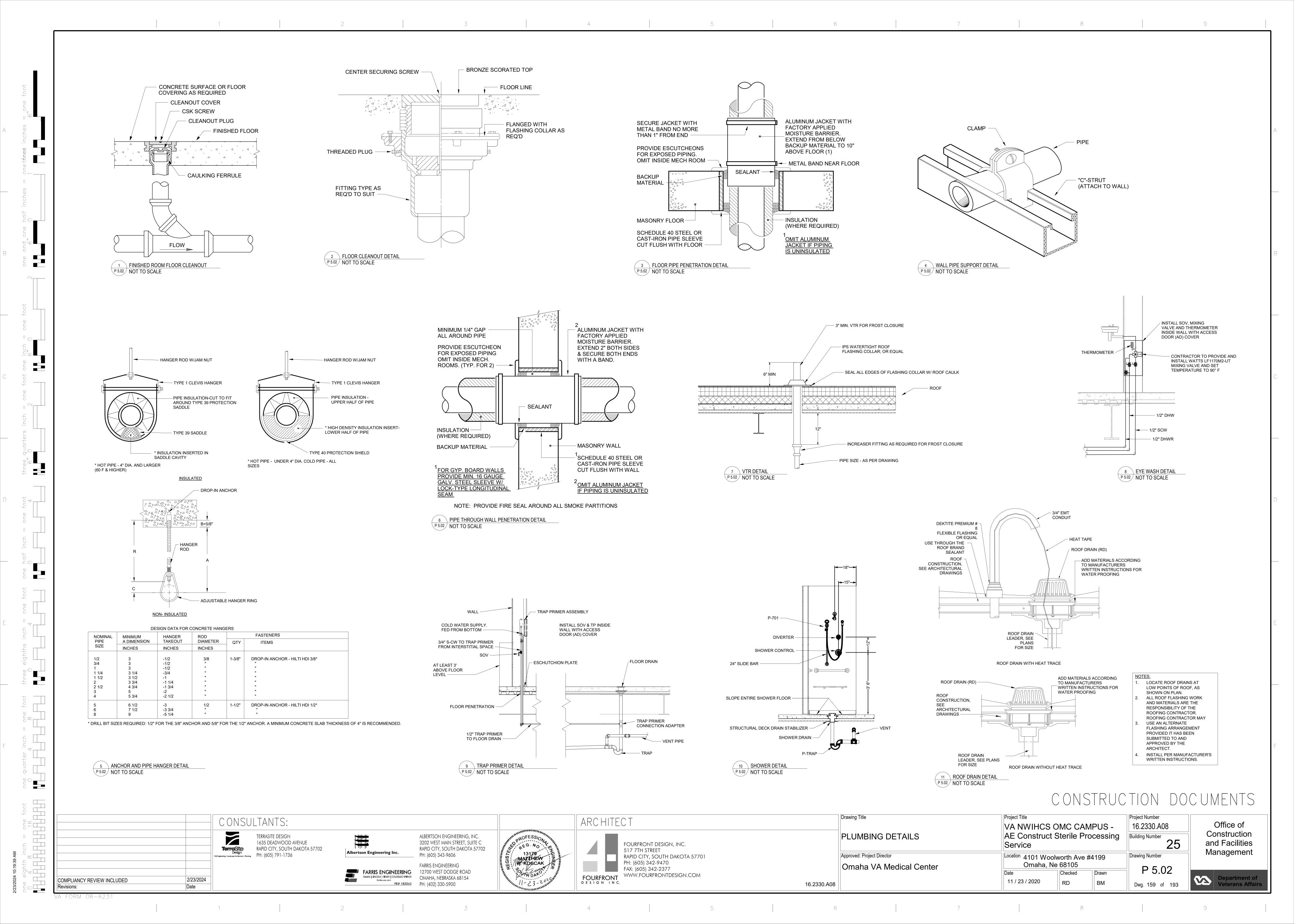












			MECH	IANICAL PIPE	CONNEC	TIONS (STEAM)		PLUM	IBING C	ONNECT	IONS	
MANUFAC		EQUIPMENT			SUPPLY	CONDENSATE		DCW		PURE	COMPRESSED	
TURER	MODEL/ DESCRIPTION	TAG	SIZE	PRESSURE	SIZE	RETURN	WASTE	SOFT	DHW	WATER		NOTES
STERIS	COUNTER, CLEANUP, WITH 3 SINKS	1	-	-	-	-	1-1/2"	1/2"	1/2"	1/2"	1/4"	_
STERIS	WASHER, DISSINFECTOR, STM, 1DO, RSCD1WLL, 26X24X24 SHAM	2	3" OD	30-80 PSIG MAX 90	1/2"	1/2"	4" FS	1/2"	1/2"	1/2"	1/8"	1
STERIS	INNOWAVE PCF SONIC IRRIGATOR	3	-	-	-	-	3/4"	3/4"	3/4"	3/4"	-	2
STERIS	INNOWAVE UNITY ULTRASONIC IRRIGATOR	3A	-	-	-	-	3/4"	3/4"	3/4"	-	-	2
STERIS	RACK RETURN, LOAD/UNLOAD	4	-	-	-	-	1-1/2"	-	-	-	1/4"	-
STERIS	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RCSD 2 WLL	5	6" OD	30-80 PSIG	1-1/2"	1"	4"	1"	1"	3/4"	1/2"	1
	CART, SCOPE, TRANSPORT	6	-	-	-	-	-	-	-	-	-	-
CANTEL	WASHER, FIBER SCOPE, PASS-THROUGH	7	4"	-	-	-	4" FD	1/2"	1/2"	-	1/4"	3
STERIS	40" AUTOMATED PASS-THROUGH WINDOW	8	-	-	-	-	-	-	-	-	-	-
CANTEL	CABINET, STORAGE, HANGING SCOPES	9	-	-	-	-	-	-	-	-	1/4	-
	RACK, STERILE WRAP	4A,10	-	-	-	-	1-1/2"	-	-	-	1/4"	5
	CART, WASHER TRANSFER	11	-	-	-	-	-	-	-	-	-	-
STERIS	LOW TEMPERATURE STERILIZER	12	-	-	-	-	-	-	-	-	-	-
	ADJUSTABLE DELUXEWORKSTATION	13	-	-	-	-	-	-	-	-	-	-
STERIS	AMSCO 400 SERIES SMALL STEAM STERILIZER	14	-	-	1/2"	-	1-1/2"	1"	-	-	-	4
STERIS	AMSCO 600 MEDIUM STEAM STERILIZER	15	-	-	1/2"	-	1-1/2"	3/4"	-	-	1/2"	4
STERIS	LOADING CAR & TRANSFER CARRIAGE, 26.5"x26.5"x63" CHAMBER	16	-	-	-	-	-	-	-	-	-	-
STERIS	DISPENSER, DETERGENT, AUTOMATIC	17	-	-	-	-	-	-	-	-	-	-

						Pl	_UMI	BING	CALCU	LAT	ION	IS									
TAG	PLUMBING FIX AND EQUIP.	DCW GPM	DHW GPM	PURE GPM	GPC COLD	GPC HOT	GPC PURE	CYCLES / HR	QUANTITY	COLD	НОТ	PURE	COLD	НОТ	PURE	COLD	НОТ	PURE	COLD	НОТ	PURE
103	WCFV	27	0	0	-	-	-	-	4	-	-	-	-	0	0	0	0	0	46	0	0
401	Lavatory	1.5	1.5	0	-	-	-	-	7	-	-	-	-	0	0	0	0	0	10.5	10.5	0
402	Lavatory	1.5	1.5	0	-	-	-	-	4	-	-	-	-	0	0	0	0	0	6	6	0
502	Jan Sink	2.5	2.5	0	-	-	-	-	2	-	-	-	-	0	0	0	0	0	5	5	0
519	Service Sink	2.5	2.5	0	-	-	-	-	1	-	-	-	-	0	0	0	0	0	2.5	2.5	0
524	Lavatory (Kitchen Sink)	1.5	1.5	0	-	-	-	-	1	-	-	-	-	0	0	0	0	0	1.5	1.5	0
808	Hose Bibb	2.5	2.5	0	-	-	-	-	3	-	-	-	-	0	0	0	0	0	7.5	7.5	0
709	Eye Wash	3	3	0	-	-	-	-	7	-	-	-	-	0	0	0	0	0	21	21	0
701	Shower	3	3	0	-	-	-	-	2	-	-	-	-	0	0	0	0	0	6	6	0
1	3 Basin Sink	3.2	3.2	2	-	-	-	-	4	-	-	-	-	0	0	0	0	0	12.8	12.8	8
2	AMSCO 7052 WAS/DISINF	14.1	14.1	5.5	58.2	3.3	12	2	3	116.4	6.6	24	349.2	19.8	72	1.94	0.11	0.4	5.82	0.33	1.2
3	Innowave PCF	8	8	8	21	11	10	2	2	42	22	20	84	44	40	55	0.367	0.333	1.4	0.733	0.667
3A	Innowave unity	8	8	0	35.9	6.3	0	1	3	35.9	6.3	0	107.7	18.9	0	0.598	0.105	0	1.795	0.315	0
4	SCS Conveyor	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
5	Autowash	38.5	35	28	46	50	25	4	2	184	200	100	368	400	200	3.067	3.333	1.667	6.133	6.667	3.333
7	Advantage pass thru	2.6	2.6	0	11.5	11.5	0	2	3	23	23	0	69	69	0	0.383	0.383	0	1.15	1.15	0
10	EMEASCS Conveyor	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
14	AMSCO 400 Sterilizer	15	0	0	175	0	0	1	1	175	0	0	175	0	0	2.917	0	0	2.917	0	0
15	AMSCO 600 Sterilizer	12	0	0.6	128	0	6.6	1	3	128	0	6.6	384	0	19.8	2.133	0	0.11	6.4	0	0.33
																		TOTAL GPM	144.415	81.995	13.53

	INSTRUMENT GRADE AIR COMPRESSOR SCHEDULE						
MARK	MANUFACTURER & MODEL NO.	TYPE	RECEIVER SIZE (GALLONS)	DISPLACEMENT (CFM)	OUTLET PRESSURE (PSI)	OUTLET DEW POINT	NOTES
AC-1	BEACON MEDAES LAS07D-080V-D	OIL-LESS SCROLL AIR COMPRESSOR	80	34 @ 145 psi	100	10 °F	1,2,3,4

- REFER TO MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL INFORMATION.
- AIR COMPRESSOR AND ALL DRYING COMPONENTS SHALL BE PART OF A COMPLETE PACKAGED SKID. PROVIDE SKID WITH FULL FACTORY INSTALLED CONTROL PANEL FOR INDEPENDENT CONTROL OF COMPRESSOR SYSTEM.
- SKID SHALL BE SINGLE POINT CONNECTION FOR ELECTRICAL, AIR, AND DRAIN.

EQUIP					TEMP	TEMP	PRESSURE	MODULATING CONTROL	MAX. STEAM	DIAMETER/	
TAG	MFGR	MODEL	FLUID	GPM	IN (°F)	OUT (°F)	DROP (TUBES)	V (LBS/HR)	PRESSURE (PSIG)	LENGTH	NOTE
HX-1	TACO	G14412-S	WATER	210	45	140	4.35	10471.8	15	14"/ 72"	1
HX-2	TACO	G14412-S	WATER	210	45	140	4.35	10471.8	15	14"/ 72"	1

								VOLT/	
TAG	MANUFACTURER & MODEL	TYPE	SYSTEM	FLUID	GPM	PUMP FT. HEAD	TEMP (° F)	Ph/ A	NOTES
CP-1	Taco IL006	INLINE	DHW	WATER	2	6	140	115/1/0.52	1
CP-2	GRUNDFOS MAGNA 3 40-80 F	INLINE	RO	WATER	50	12	90	115/1/2.57	1

	V	/ATER	SOFTNE	RSCH	IEDU	LE		
	MANUFACTURER	RESIN	CONNECTION	GPM FL	_	SALT	DRAIN	
MARK	& MODEL	VOLUME	SIZE	CONT.	PEAK	CAP.	FLOW	NOTES
WS-1	CULLIGAN HS-1504	50	4"	190 @ 6 PSI	320 @ 15 PSI	1500 KGR @ 750	70 GPM	1,2,3,4,5
1. 2. 3. 4. 5.	PROVIDE RESIN CO PROVIDE WITH CAF REFER TO WATER (SOFTENER SYSTEM PER TANK. WATER SOFTENER	RBON EXCHA CONDITIONIN 1 TO INCLUDI	NGE FILTER IG DETAIL FOR AL E 2 SOFTENER TA	NKS AND (ONE BRIN	E TANK. DA	ATA SHOW	'N IS

MARK	DESCRIPTION	TYPE	WASTE	VENT	HOT WATER	COLD WATER	NOTES
DN-1	DOWNSPOUT NOZZLE	ROUND	2"	-	-	-	1,2
FD-C1	FLOOR DRAIN	ROUND	2"	1-1/2"	-	-	1,2
FD-C2	FLOOR DRAIN	ROUND	3"	1-1/2"	-	-	1,2
FD-C3	SHOWER FLOOR DRAIN	ROUND	2"	1-1/2"	-	-	1,2
FS-S	FLOOR SINK	12"X12"	4"	2"	-	-	1,2
FCO-1	FLOOR CLEANOUT	ROUND	2"	-	-	-	1,2
RD-1	ROOF DRAIN	FLAT ROOF	SEE PLANS				
TP-1	TRAP PRIMER GANG (MORE THAN 4)	PPP MODEL PTS1320 - (# OF CIRCUITS)	-	-	-	1/2"	1,2,3
TPC-1	TRAP PRIMER CONNECTION		-	-	-	1/2"	1,2

SIZE LISTED ON SCHEDULES APPLY TO ALL FIXTURES ON PROJECT UNLESS OTHERWISE NOTED. SEE PLUMBING FIXTURE SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL WITH INLET SHUT-OFF VALVE

RO EQUIPMENT SCHEDULE						
MANUFACTURER & MODEL NO.	TANK VOLUME (GALLONS)	CONNECTION SIZE	FLOW RATE GPM	PRESSURE DROP PSI	TANK VOLUME	NOTES
CULLIGAN CTM-CF21	-	2"	24	4	-	
CULLIGAN G2-7HE	-	2"	9.2	15	-	3,5,8,9,10
CULLIGAN	500	2" INLET / 2" OUTLET	-	-	500	5,6,7,8,9,10
	MANUFACTURER & MODEL NO. CULLIGAN CTM-CF21 CULLIGAN G2-7HE	MANUFACTURER & TANK VOLUME MODEL NO. (GALLONS) CULLIGAN CTM-CF21 - CULLIGAN G2-7HE -	MANUFACTURER & TANK VOLUME CONNECTION SIZE CULLIGAN CTM-CF21 - 2" CULLIGAN G2-7HE - 2" CULLIGAN 500 2" INLET /	MANUFACTURER & TANK VOLUME CONNECTION FLOW RATE GPM CULLIGAN CTM-CF21 - 2" 24 CULLIGAN G2-7HE - 2" 9.2 CULLIGAN 500 2" INLET / -	MANUFACTURER & MODEL NO.TANK VOLUME (GALLONS)CONNECTION SIZEFLOW RATE GPMPRESSURE DROP PSICULLIGAN CTM-CF21-2"244CULLIGAN G2-7HE-2"9.215CULLIGAN5002" INLET /	MANUFACTURER & MODEL NO. TANK VOLUME (GALLONS) CONNECTION SIZE FLOW RATE GPM DROP PSI PRESSURE VOLUME CULLIGAN CTM-CF21 - 2" 24 4 - CULLIGAN G2-7HE - 2" 9.2 15 - CULLIGAN 500 2" INLET / - 500

- 1. PROVIDE INLINE DOWNSTREAM SENSOR TO MONITOR WATER HARDNESS, CONDUCTIVITY, CHLORIDES, AND PH. INLINE SENSOR TO BE TIED TO BMS AND ALARM IF READINGS ARE OUT OF RANGE. PROVIDE EACH RO SKID WITH INTEGRAL MULTISTAGE PUMPS FOR TRANSFER OF WATER TO TANK.
- PROVIDE FINISHING FILTERS DOWNSTREAM OF DI AND UV FILTER. REFER TO RO EQUIPMENT DETAIL FOR MORE INFORMATION.

PLUMBING FIXTURE CONNECTION SCHEDULE

TANK TO BE CONICAL BOTTOM AND INCLUDE VENT LINE WITH HEPA AIR FILTER. TANK CONNECTIONS TO INCLUDE 2" BOTTTOM DISCHARGE AND 2" RETURN ON TOP WITH DISPERSION.

MINIMUM CONNECTIONS

1-1/2"

1-1/2"

HOT WATER WATER

3/4" 1,2,3

3/4" 1,2,3

PROVIDE ALL APPURTANANCES AS NECESSERYA TO PROVIDE A COMPLETE WORKING SYSTEM. ALL RO/DI PIPING MATERIAL TO BE VIRGIN POLYPROPYLENE OR 316L STAINLESS STEEL. ALL INTERNAL EQUIPMENT SURFACES IN CONTACT WITH PROCESS WATER TO BE 316L STAINLESS STEEL. STORAGE TANK MATERIAL TO BE HIGH DENSITY POLYETHYLENE OR FIBERGLASS
 PROVIDE RO SKID WITH INTEGRAL MULTISTAGE PUMPS FOR RO WATER DISTRIBUTION BASED ON DEMAND.

TYPE WASTE

MOUNT

MOUNT

WALL MOUNT

MOUNT

P-103	WATER CLOSET	AMERICAN STANDARD AFWALL 2257101.020 PROVIDE WITH AMERICAN STANDARD 6047.121.002 MANUAL FLUSH VALVE, BEMIS 1655SSCT OPEN FRONT SEAT LESS COVER, AND ZN1201-ND-4 FOR BACK-TO-BACK ZN1201-H_4 FOR SINGLE WALL CARRIER	WALL MOUNT	3"
P-402	LAVATORY	KOHLER K-2084 WITH WALL SUPPORT SYSTEM PROVIDE WITH CHICAGO FAUCETS 895-317RGD2ABCP, 1/4 TURN STOPS, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	WALL HUNG	1-1/2
P-404	LAVATORY	KOHLER K-2084 WITH WALL SUPPORT SYSTEM PROVIDE WITH CHICAGO FAUCETS 116.779.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, 1/4 TURN STOPS, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	WALL HUNG	1-1/2
P-501	SERVICE SINK	ELKAY WNSF81302, T&S B-0674-BSTP, PROVIDE WITH 1/4 TURN STOPS, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	WALL MOUNT	1-1/2
P-502	MOP SINK	FIAT TSBCR1100 PROVIDE UNIT SHALL COME COMPLETE WITH HOSE, HOSE BRACKET AND MOP HANGER. PROVIDE WITH WALL MOUNTED MANUAL FAUCET WITH INTEGRAL VACUUM BREAKER, PAIL HOOK, AND WALL SUPPORT ROD CHICAGO FAUCET MODEL	FLOOR SET	2"

MANUFACTURER & MODEL OR EQUAL

SPEAKMAN SE-582 PROVIDE WITH LEONARD TA-350-LF MIXING VALVE AND 1/4 TURN

02	HOSE BIBB	WOODFORD MODEL 122
TES:		
;	SIZE LISTED ON SCHEDU	ILES APPLY TO ALL FIXTURES ON PROJECT UNLESS OTHERWISE NOTED.

MOEN 8343, PROVIDE CHICAGO FAUCETS 1921-VON

540-LD897SWXF317CP, 1/4 TURN STOPS

ELKAY EZWS-EDFP217K

SEE PLUMBING FIXTURE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONSTRUCTION DOCUMENTS

COMPLIANCY REVIEW INCLUDED 2/23/2024 Date Revisions:

eighth inch = one foot
4 8 16

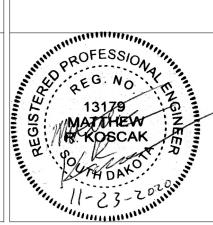
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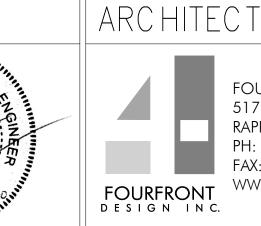


ALBERTSON ENGINEERING, INC. 3202 WEST MAIN STREET, SUITE C RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 343-9606 FARRIS ENGINEERING FARRIS ENGINEERING
OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS
forris-usa.com

FETT 1200 (10) | COLORADO SPRINGS
OMAHA, NEBRASKA 68154

FE# 182043 PH: (402) 330-5900







Drawing Title Approved: Project Director 16.2330.A08

FIXTURE

P-608 DRINKING WATER

DISPENSER

P-708 EMERGENCY EYE

INSTALL WITH INLET SHUT-OFF VALVE.

PROVIDE EL-386 TRANSFORMER FOR FLUSHOMETER

WASH

P-703 SHOWER

Project Title 16.2330.A08 VA NWIHCS OMC CAMPUS -AE Construct Sterile Processing PLUMBING SCHEDULES Building Number Service Location 4101 Woolworth Ave #4199 Drawing Number Omaha, Ne 68105 Omaha VA Medical Center P 6.01 Checked 11 / 23 / 2020 RD Dwg. 160 of 193

Office of Construction and Facilities Management

Department of

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