three inches = one foot 0 8
one and one-half inches = one foot 1 0 6
one inch = one foot 2 0 6
three-quarters inch = one foot 2 0 6
one-half inch = one foot 4 0
three-eighths inch = one foot 4 0
one-quarter inch = one foot 8 4 0
one-eighth inch = one foot 16 8 0 4

GENERAL NOTES:

1. ITEMS ON THESE PLUMBING DRAWINGS FALL UNDER DIVISION 22 AND 23 SPECIFICATIONS.
2. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
3. COORDINATE DOMESTIC WATER AND STEAM SYSTEM SHUTDOWNS WITH COR. SHUTDOWNS SHALL ONLY OCCUR AS SPECIFIED WITH PRIOR WRITTEN APPROVAL OF THE COR.
4. CONTRACTOR SHALL PROVIDE COMPLETE WORKING SYSTEMS WITH COMMISSIONING AND STARTUP SERVICES AS SPECIFIED.
5. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL AND APPROXIMATE LOCATION OF EQUIPMENT AND PIPING. FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT AND PIPING LOCATIONS.
6. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE OWNER SHALL BE ADVISED IMMEDIATELY AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
7. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THE CONTRACTOR FOR BEAMS, COLUMNS, JOISTS OR OTHER OBSTRUCTIONS OF THE BUILDING WHETHER OR NOT THE SAME IS INDICATED WHERE NECESSARY TO AVOID OBSTRUCTIONS.
8. ALL MISCELLANEOUS MATERIAL REQUIRED TO ENSURE PROPER INSTALLATION OF PIPING, EQUIPMENT, AND CONTROLS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
9. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS NOTED AS (E), EXIST, OR EXISTING.
10. ALL PIPING AND MATERIALS SHALL BE CLEANED PRIOR TO ENTERING THE BUILDING.
11. THE CONTRACTOR SHALL THOROUGHLY CLEAN HIS/HER WORK AREA DAILY. CONTRACTOR SHALL ALSO REMOVE ALL TRASH AND DEBRIS AFTER COMPLETION OF THE WORK.
12. EXCESSIVE CUTTING AND SIMILAR OPERATIONS LIKELY TO WEAKEN THE BUILDING STRUCTURE TO FACILITATE THE PIPING INSTALLATION WILL NOT BE PERMITTED. DO NOT PENETRATE STRUCTURAL MEMBERS.
13. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL, LABOR, EQUIPMENT AND SUPERVISION FOR COMPLETE INSTALLATION.
14. THE INTERIOR SURFACES OF PIPING SHALL BE SMOOTH AND ENTIRELY FREE FROM OBSTRUCTIONS TO FLOW. CLEAN AND FLUSH THE SYSTEMS BEFORE CONNECTING TO EQUIPMENT. VERIFY THAT ALL FOREIGN MATERIAL HAS BEEN REMOVED BEFORE PLACING IN SERVICE.
15. WHERE PIPING PASSES THROUGH FIRE OR SMOKE RATED WALLS OR CEILINGS, OPENINGS SHALL BE FIRE AND/OR SMOKE STOPPED PER THE APPROPRIATE UL DETAIL.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR COPPER/SILVER IONIZATION UNITS AND DOMESTIC WATER HEATERS PER DETAIL 'A' ON DRAWING PL-601 UNLESS OTHERWISE NOTED.
17. REMOVE AND RE-INSTALL LAY-IN CEILING TILES AS REQUIRED FOR DEMOLITION AND NEW WORK. RE-INSTALL CEILING TILES AT THE END OF EACH WORK DAY OR WHEN THE TASK IS COMPLETED. REPLACE ANY DAMAGED CEILING TILES TO MATCH EXISTING.
18. SEE DRAWING GI-001 FOR HAZARDOUS MATERIALS.

VALVE SYMBOLS:

- VALVE IN VERTICAL
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- BALL VALVE
- MODULATING CONTROL VALVE
- THREE-WAY MODULATING PNEUMATIC CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REGULATING VALVE
- PRESSURE RELIEF VALVE
- CALIBRATED BALANCING VALVE
- GATE VALVE WITH 3/4" HOSE ADAPTER
- BALL VALVE WITH 3/4" HOSE ADAPTER

GENERAL SYMBOLS:

- 1 / P601 — DETAIL NUMBER / DRAWING NUMBER WHERE DRAWN
- BUILDING NO. WHERE EQUIPMENT IS LOCATED
- EQUIPMENT ABBREVIATION (PUMP)
- 2-P-1 — PUMP NO. 1 IN BUILDING NO. 2
- TYPICAL UNIT NO.
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- DEMOLITION
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- REDUCER OR INCREASER
- TOP CONNECTION OR SET
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- FLANGE
- PIPE UP
- PIPE DOWN
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- STEAM TRAP ASSEMBLY
- STRAINER
- THERMOMETER
- PRESSURE GAGE
- HOSE BIB/ WALL HYDRANT
- DASH BOX INDICATES PIPES TO BE INSULATED

ABBREVIATIONS:

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS
BEL	BELOW
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BLDG	BUILDING
CLR	CLEAR
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL PANEL
CRU	CONDENSATE RETURN UNIT
CSI	COPPER SILVER IONIZATION
CV	CONTROL VALVE
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EW	EACH WAY
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FR	FROM
FT	FEET
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HX	HEAT EXCHANGER
LAN	LOCAL AREA NETWORK
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
ME	MECHANICAL EQUIPMENT
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
NC	NORMALLY CLOSED
OC	ON CENTER
P	PUMP
PC	PUMPED CONDENSATE
PI	PRESSURE INDICATING
PPP	PRESSURE POWERED PUMP
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
RECIRC	RECIRCULATING
RPM	REVOLUTIONS PER MINUTE
TCV	TEMPERATURE CONTROL VALVE
TI	TEMPERATURE INDICATING
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAC	VOLTS, ALTERNATING CURRENT
VERT	VERTICAL
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP

CONTROL SYMBOLS:

- ISL — CURRENT SENSOR LOW
- TT — TEMPERATURE TRANSMITTER
- AI — ANALOG INPUT SOFTWARE FUNCTION
- DI — DIGITAL INPUT SOFTWARE FUNCTION

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Atriax
Atriax, pllc
102 3rd Avenue, NE
PO Box 1629,
Hickory, NC 28603
Phone: 828.315.9962
Fax: 828.315.9964
www.atriaxgroup.com

Wiley|Wilson
Wiley|Wilson
127 Nationwide Drive
Lynchburg, VA 24502
Phone: 434.947.1901
www.wileywilson.com

COMMONWEALTH OF VIRGINIA
MICHAEL J. GEHL
Lic. No. 24298
4/28/2017
PROFESSIONAL ENGINEER

Approved: Energy Engineer	Approved: Safety Manager	Approved: Service Chief
CONSTRUCTION DOCUMENTS	Approved: Infection Control Officer	Approved: Chief of Staff
	Approved: GEMS Coordinator	Approved: Associate Director
		Approved: Chief of Facility Management Svc.
		Approved: Medical Center Director

Drawing Title: P-001 LEGEND, ABBREVIATIONS, AND GENERAL NOTES

Project Title: RENOVATE FOR WATER QUALITY

Building Number | Checked: MJG | Drawn: JFC

Location: VA MEDICAL CENTER, SALEM, VA 24153

Date: 04/ 28 / 2017

Project No.: 658-15-101

DRAWING SET: 2592

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