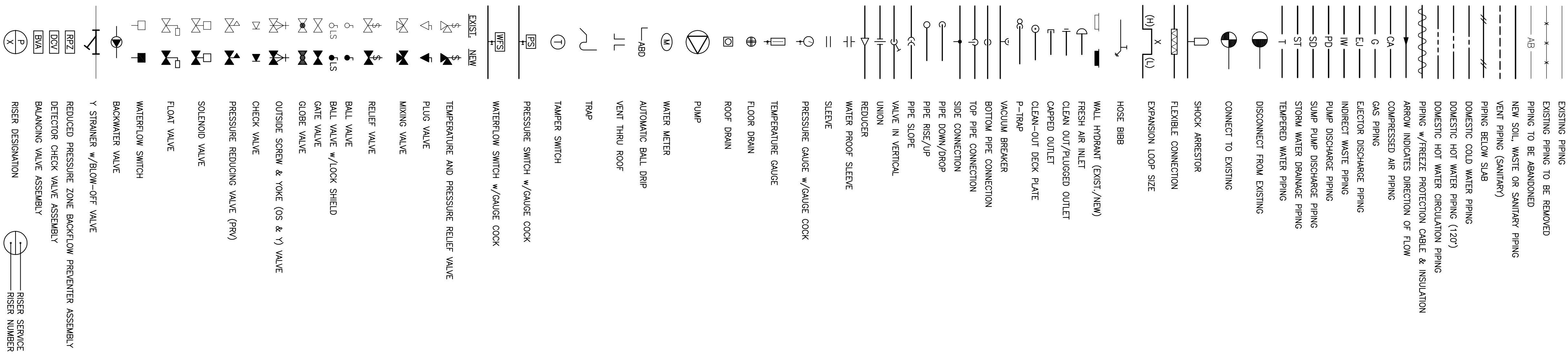


PLUMBING BASIC SYMBOLS
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

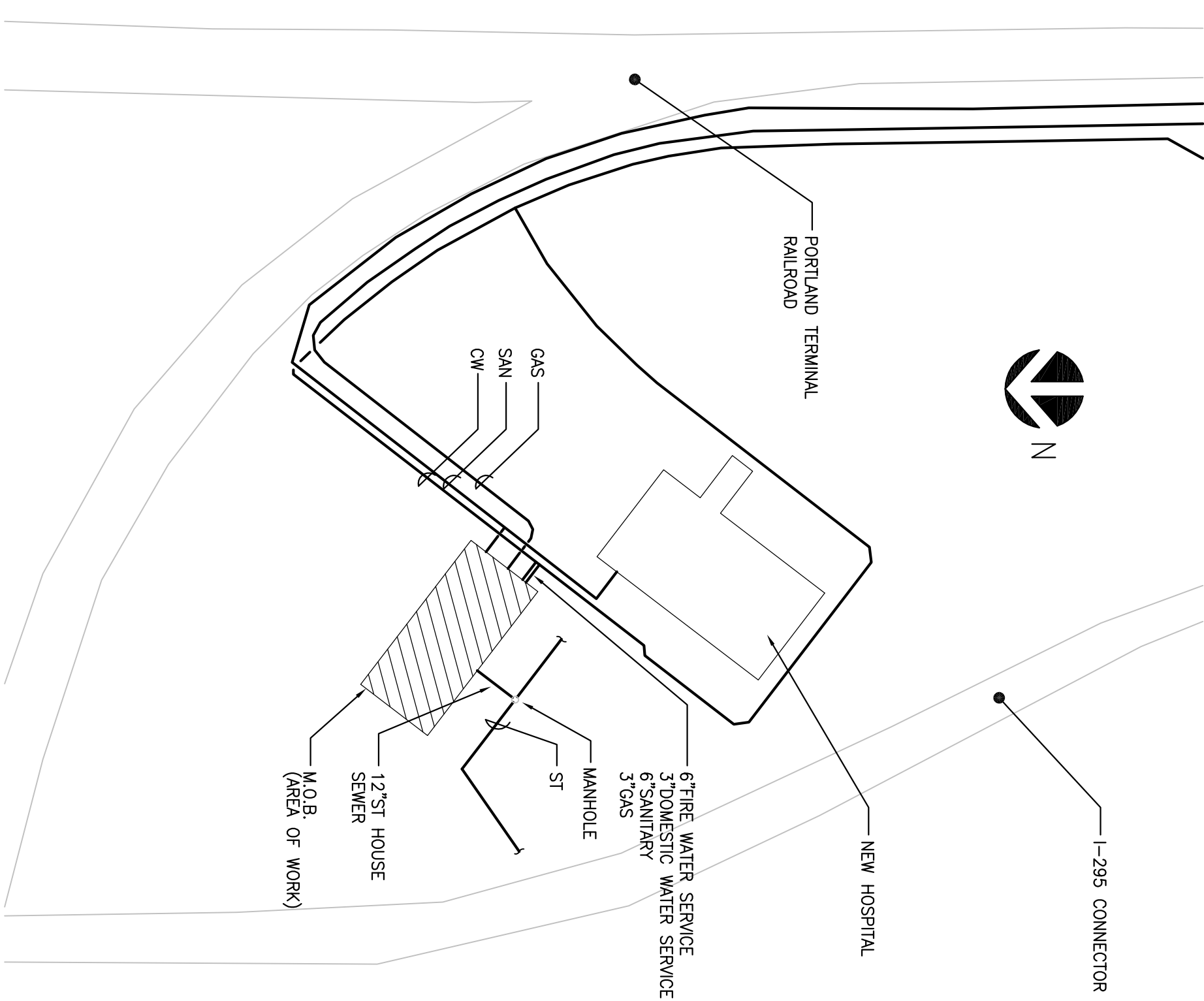


PLUMBING ABBREVIATIONS
(NOT ALL ABBREVS. ARE NECESSARILY USED ON THIS PROJECT)

AD	AGEO DRAIN
AF	ABOVE FINISHED FLOOR
BFG	BUILDING
BP	BOTTOM OF PIPE
CCP	CLEANOUT
CCP-P	CLEANOUT DECK PLATE
CM	COFFEE MAKER
CV	CHECK VALVE
CO	CAPPED AND WAJED OUTLET
CS	COLD WATER
CLG	CLEARING
CONN	CONNECT
CONT	CONTINUATION
DA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
ED	ELECTOR DISCHARGE
EL	ELEVATION
EMC	ELECTRIC WATER COOLER
FA	FRESH AIR INLET
FD	FLOOR DRAIN
FJ	FIXTURE UNIT
FL	FLOOR
FL, H	FLOOR HOVRANT
FT	FEET
GC	GENERAL CONTRACTOR
GAL	GALLONS
GM	GALLONS PER MINUTE
HGB	HOSE BIBB
HCG	HUNG CEILING
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IN	INDIRECT WASTE
IN	INCH
IS	JANITOR'S SINK
LV	LANTOFT
MK	MAXIMUM
MM	MEDICAL GAS ALARM PANEL
MIN	MINIMUM
MR	MOP RECEPTOR
(N)	NEW
NC	NORMALLY CLOSED
NE	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NIS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SPOKE & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RD	RELOCATED EXISTING
(RR)	RELOCATED EXISTING
SA	EXISTING TO BE REMOVED
SAN	SANITARY
SAW	SHOCK ABSORBER
SD	SUMP PUMP DISCHARGE
SH	SHOWER
SK	SINK
SO FT	SQUARE FOOT
ST	TYPICAL
UP	UNLESS OTHERWISE NOTED UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VACUUM BREAKER
VB	VENT THROUGH ROOF
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEAOUT
WH	WALL HYDRANT
ZCVB	ZONE CONTROL VALVE BOX

PLUMBING GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
2. DRAWINGS ARE DIAGRAMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. WORK OF THIS SECTION IS SPECIFIED IN SECTION 15400.
4. BEFORE ANY WORK COMMENCES, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD. WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF EXISTING UTILITY LINES AS NECESSARY TO PREVENT DAMAGE TO THESE LINES.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
6. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, HVAC, PROCESS ARCHITECTURE, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.
7. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
8. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES, ORDINANCES, REGULATIONS, OR STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE.
9. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH OH-RING (STAINLESS STEEL) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING THROUGH ROOFS SHALL BE INSTALLED WITH OH-RING (STAINLESS STEEL) PLATED ESCUTCHEONS AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING THROUGH ROOFS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE REQUIREMENTS (SEE DRAWINGS).
10. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO IDENTIFY EQUIPMENT. THE CONTRACTOR SHALL VERIFY THAT THE MATERIALS, STANDARDS OF QUALITY AND PERFORMANCE AND RECOMMENDATIONS.
11. PRODUCTION INSTALLATION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
12. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
13. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING LIDS OR CEILING STRUCTURE.
14. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND DRAWINGS AND SHALL FINISH EQUIPMENT WIRING FOR THE VOLTAGES SHOWN HEREIN.
15. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
16. ALL STEELS THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
17. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AND PROVISIONS AS NECESSARY TO COORDINATE WORK.
18. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCE WITH THE PROGRESS OF WORK.
19. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FINISHING REQUIREMENTS.
20. RAIN PIPING CONCRETE, UNLESS SPECIFIED OTHERWISE, AND WITH FLASHING REQUIREMENTS.
21. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
22. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND SIZES AS NECESSARY TO PREVENT STRESS ON PIPING.
23. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT SUPPLIES AND SUPPLY RISERS.
24. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
25. PROVIDE GAUGE FITTINGS AND THERMOMETER WELTS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
26. VERIFY EXACT SIZES, LOCATIONS, INSETS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
27. ALL GAS PIPING TO COMPLY WITH LOCAL AND STATE CODES.
28. 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 REGULATION BOARD.
29. GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE REGULATION BOARD. THE CONTRACTOR SHALL PROVIDE A GAS LEAK DETECTION AND TEST INSPECTOR. IF INSPECTION OF THE TEST SHOWS DEFECTS, SUCH DETECTION AND TEST SHALL BE RE-DO.
30. PLUMBING SUPERINTENDENT IS RESPONSIBLE FOR EXTENDING ALL PIPING AND EQUIPMENT TO THE POINT OF CONNECTION WITH THE EQUIPMENT GAS TRAIL.
31. WATER HEATERS SHALL BE INSTALLED WITH DRAIN PANS UNDER HEATERS. ROUTE PAN DRAINS TO NEAREST FLOOR DRAIN OR SAFE DRAIN.
32. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.



PARTIAL SITE PLAN

SCALE: NOT TO SCALE
NOTE:
1. REFER TO O&M ENGINEER'S PLUMBING TOP EXACT SITE PIPING LOCATIONS.
2. LIMIT OF WORK IS WITHIN 5FT OF BUILDING WALL.

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Sheet: PLUMBING COVER SHEET

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