



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

SEE MECHANICAL PLAN SPECIFICATIONS 15010
15030 PLUMBING

PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE PLUMBING SYSTEM.

VALVES:
VALVES TO BE CRANE OR NIBCO: GATE - #438 OR #1320, GLOBE - #7 OR #1310, CHECK - #34 OR #1303.
UNDERGROUND GATE VALVES TO BE INSTALLED IN CAST IRON BOXES, WITH CAST IRON COVER MARKED "WATER".

PIPE HANGERS: SECURELY SUSPEND PIPES FROM BUILDING STRUCTURE. INDIVIDUAL HANGERS - UNISTRUT HL-1000, MULTIPLE PIPES - UNISTRUT P-1000, WALL SUPPORTS - GRINNELL #168. SUPPORT AT 6' CENTERS ON 3/8" DIAMETER RODS AND AT EACH CHANGE OFF DIRECTION. ALL MATERIALS USED IN SUPPORTING PIPE TO BE GALVANIZED. PROVIDE CRANE CHROMIUM PLATED WALL, CEILING AND FLOOR PLATES WHERE PIPES PASS THROUGH WALLS OR CEILINGS. PROVIDE GALVANIZED STEEL PIPE SLEEVES FOR PIPES THROUGH WALLS, FLOORS, AND ROOFS.

INSULATION: INSULATE HOT WATER PIPING WITH MICROLOK, FIRE RETARDANT, WHITE JACKETED INSULATION. ALL INSULATION MUST COMPLY WITH IECC. SEAL ALL JOINTS WITH SELF SEALING TAPE. FITTINGS SHALL BE PRE MOLDED TYPE, SEALED AS REQUIRED. INSULATE ALL COLD WATER PIPING IN OUTSIDE WALL CHASES, OR CEILINGS SAME AS HOT WATER PIPE. EXTERIOR PIPING SHALL BE INSULATED WITH WATER PROOF-COVERED INSULATION. EXPOSED INSULATION OUTSIDE SHALL HAVE ALUMINUM COVERS. PROVIDE 18 GAUGE GALVANIZED SADDLES AT SUPPORT POINTS AS REQUIRED.

ELECTRICAL: ELECTRICAL CONTRACTOR WILL DO ALL THE ELECTRICAL WIRING FOR POWER SUPPLY AND CONTROL.

SANITARY SYSTEM: PIPING BELOW GROUND TO 5 FEET FROM BUILDING SHALL BE SCHEDULE 40 PVC. ALL PIPE FROM 5 FEET OF THE BUILDING SHALL BE STANDARD WEIGHT CAST IRON. VENT PIPES ABOVE GROUND AND IN THE BUILDING SHALL BE STANDARD WEIGHT CAST IRON. VENT PIPE 2" AND SMALLER SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED GALVANIZED CAST IRON FITTINGS. ALTERNATE DUCT PRICE: PROVIDE "ALTERNATE DUCT IN PRICE" FOR USING PVC WASTE AND VENT PIPING.

WATER SYSTEMS: WATER PIPING INSIDE THE BUILDING SHALL BE TYPE "L" COPPER. UNDERGROUND LINES SHALL BE CAST IRON WATER PIPE AND FITTINGS, WITH MECHANICAL JOINTS OR TYPE "M" COPPER. PROVIDE DIELECTRIC FITTINGS AT POINTS OF CONNECTION OF DISSIMILAR METALS.

PIPE INSTALLATION: INSTALL WATER PIPING LEVEL. PROVIDE DRAINS AT LOW POINTS OF SYSTEM. SEWERS SHALL BE SLOPED AT NOT LESS THAN 1/8" INCH PER FOOT. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS. PIPE SHALL RUN PARALLEL TO BUILDING LINES. FULL PROVISION SHALL BE MADE FOR EXPANSION AND CONTRACTION OF PIPING. PROVIDE AIR CHAMBERS AT EACH FIXTURE, FULL LINE SIZE 18" HIGH. VENT PIPES SHALL BE FLASHED AT THE ROOF WITH 4 POUND SHEET LEAD, EXTENDING NOT LESS THAN 10" IN ALL DIRECTIONS IN ALL DIRECTIONS. TURN LEAD DOWN IN TO VENT 1 INCH. PROVIDE A STOP VALVE AT EVERY FIXTURE OR EQUIPMENT. ALL CONNECTION TO EQUIPMENT SHALL BE MADE WITH UNIONS. PIPING SHALL NOT CONTACT AN ELECTRICAL CONDUIT AT ANY POINT. ACCESS DOORS OR PANELS SHALL BE FURNISHED BY THIS CONTRACTOR.

JOINTS:
CAST IRON - TYSEAL JOINTS.
COPPER PIPE - LEAD FREE SOLDER.
MECHANICAL JOINTS - ASA S 2111-53
SCREW JOINTS - AMERICAN STANDARD WITH TEFLON TAPE.
UNIONS - AT EACH ITEM OF EQUIPMENT. WHERE COPPER AND STEEL PIPES ARE CONNECTED, MAKE CONNECTIONS WITH INSULATED TYPE FITTINGS.

PLUMBING FIXTURES: ALL PLUMBING FIXTURES SHALL MEET THE REQUIREMENTS FOR WATER CONSERVATION AS REQUIRED BY ANSI AND LOCAL CODE. FIXTURES AND INSTALLATION MUST MEET ALL ADA REQUIREMENTS. REFERENCE DRAWING FOR PLUMBING FIXTURE SCHEDULES. ADA SAFETY DEVICES: WHEELCHAIR DRAIN ASSEMBLY - MCGUIRE 155-WC WITH MCGUIRE P-TRAP 8872; WHEELCHAIR LAVATORY SUPPLY MCGUIRE 2165; HANDI LAV-GUARD MODEL 101 P-TRAP INSULATION, HOT WATER ANGLE VALVE INSULATION AND FASTENERS; HANDI LAV-GUARD MODEL 102 P-TRAP INSULATION, HOT AND COLD WATER ANGLE VALVE INSULATION AND FASTENERS.

TRAP PRIMER "TP": TRAPS SHALL HAVE TRAP PRIMERS. PROVIDE TRAP PRIMER DISTRIBUTION UNIT FOR ONE THROUGH FOUR DRAINS. EXTEND 3/8" COPPER PIPE TO ALL FIXTURES AS REQUIRED BY CODE OR SHOWED ON THE DRAWINGS.

FIRE SPRINKLER NOTES:
LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR MODIFYING THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY WITH SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL CODE REQUIREMENTS.

- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL CONFORM TO SPECIFICATIONS PROVIDED BY THE ARCHITECT.
- CONTRACTOR SHALL VERIFY LOCATION AND CONDITION OF NEAREST ACTIVE SANITARY LINE PRIOR TO COMMENCEMENT OF WORK.
- INDIVIDUALLY VENT ALL PLUMBING FIXTURES AND TIE INTO 4" VRT UNLESS OTHERWISE NOTED IN THE DRAWING. CAP ALL UNUSED VENT PENETRATIONS THRU ROOF.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING FIXTURES TO BE REMOVED.
- CONTRACTOR SHALL REMOVE EXISTING DOMESTIC WATER LINES AND CAP SANITARY LINES AT EXISTING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF EQUIPMENT DAMAGED IN THE COMPLETION OF THIS PROJECT.
- ALL PLUMBING DROPS SHALL BE ROUTED HIDDEN WITHIN THE WALLS. CONTRACTOR SHALL PROVIDE STOPS IN THE CEILING SPACE.
- REFER TO P2.1 RISER DIAGRAM AND PLUMBING FIXTURE SCHEDULE FOR COMPLETE PIPE SIZES.

COLD WATER PIPING
HOT WATER PIPING
SAN SEWER
SAN VENT

COPPER TYPE "L" (TYPE "K" IN SLAB)
COPPER TYPE "L"
CAST IRON
CAST IRON

NOTE: PLUMBING FIXTURES MUST MEET WATER SAVING STANDARDS AS REQUIRED BY ANSI, CITY CODE AND SPECIFICATIONS.

MINIMUM PIPE SIZES:

WATER CLOSET	2" VENT, 4" WASTE, 1" COLD WATER
LAVATORY	2" VENT, 2" WASTE, 1/2" HOT & COLD WATER
FLOOR DRAIN	2" VENT, 3" WASTE, 3/8" COLD WATER
MOP SINK	2" VENT, 3" WASTE, 3/4" HOT & COLD WATER
WATER COOLER	2" VENT, 1-1/2" WASTE, 1/2" COLD WATER
URINAL	2" VENT, 2" WASTE, 3/4" COLD WATER

—CWS— COLD WATER SUPPLY
—HWS— HOT WATER SUPPLY (105 DEG)
—SAN— SANITARY SEWER
—VENT— SANITARY VENT

GPM GALLON PER MINUTE
KW KILOWATT
TYP TYPICAL
T.P. TRAP PRIMER
UG UNDERGROUND
● BALL VALVE

EYEWASH:
PROVIDE GUARDIAN THERMOSTATIC MIXING VALVE (FACTORY SET TO 85 DEG) MODEL C3600 FOR SINGLE EMERGENCY EYEWASH. UNIT SHALL INCLUDE A BUILT-IN COLD WATER BY-PASS, ROUGH BRONZE FINISH, SOLID BIMETAL THERMOSTAT, LOCKING TEMPERATURE REGULATOR WITH LIMIT STOP FACTORY SET FOR 90 DEGREES, INTEGRAL CHECK STOPS, AND DIAL THERMOMETER. UNIT SHALL HAVE A FLOW RANGE OF 0.5 GPM TO 5 GPM WITH A MAXIMUM PRESSURE LOSS OF 20 PSI AND COME WITH A FULL 1 YEAR WARRANTY.

P-1 - WATER CLOSET - SHALL BE A WALL HUNG SIPHON JET FLUSH WITH CHAIR CARRIER, EXPOSED SLOAN FLUSH VALVE WITH VACUUM BREAKER AND INTEGRAL SCREWDRIVER STOP, AND SOLID PLASTIC OPEN FRONT SEAT WITHOUT COVER.
FIXTURE NUMBER: 2257.103
FIXTURE NAME: AMERICAN STANDARD AFWALL - WALL HUNG 1.6 FLUSH VALVE BOWL SLOAN G2-8111
FLUSH VALVE: SLOAN G2-8111

P-2 - VANITY TOPS AND INTEGRAL BOWLS SHALL BE SIZED WITH A CONTINUOUS 4" BACK SPLASH. ALL VANITY TOPS TO BE SCRIBED TO WALL OPENING AND MOUNTED PER MANUFACTURER'S SPECIFICATIONS AT 2"-8" A.F.F. TO COUNTERTOP. THE FOLLOWING IS THE ONLY PRODUCT APPROVED FOR USE.

COUNTERTOP BY WISONART POSTFORMED STYLE: CAPRICE. BOWL ELIER (LOW CONSUMPTION) REFER TO ENLARGED PLA 051-0121 MURRAY OVAL, WHITE CENTER HOLE PLUNGER TYPE FAUCET: SLOAN EBF-650

P-3 - URINAL - SHALL BE WALL HUNG WASHOUT TYPE WITH EXPOSED FLUSH VALVE WITH VACUUM BREAKER AND INTEGRAL SCREWDRIVER STOP.
FIXTURE NUMBER: 6590.005
FIXTURE NAME: AMERICAN STANDARD WASHBROOK FLOWSEE URINAL
FLUSH VALVE: SLOAN EBF-650

P-4 - MOP SERVICE BASIN - SHALL BE A MUSTEE #62M, 24"x24", 8-1/2" BASIN WITH INTEGRAL STRAINER AND DRAIN, PROVIDE MUSTEE #63.600A WALL MOUNTED FAUCET WITH VACUUM BREAKER, WALL BRACE AND PAUL HOOK, #65.700 HOUSEHOLD BRACKET, #65.600 MOP HANGER.

P-5 - WATER COOLER - SHALL BE WALL HUNG ELECTRIC COLD WATER FOUNTAIN, OASIS MODEL P8A CSL. 115VOLT-60HZ, 1/2HP, 4.6 FULL LOAD AMPS.

P-6 - FLOOR DRAINS - SHALL BE CAST IRON BODY WITH 6" POLISHED BRASS STRAINER. WADE MODEL #1103-TY-AX-61 WITH TRAP PRIMER.

P-7 - CLEANOUTS - ALL CLEANOUTS SHALL BE POLISH BRASS FINISH. WADE MODEL #6000

P-8 - NOT USED

P-9 - COUNTERTOP SINGLE BOWL KITCHEN SINK - AMERICAN STANDARD MODEL #1558.252211.073 18 GAUGE, TYPE 304 STAINLESS STEEL SELF RIMMING FAUCET AMERICAN STANDARD HERITAGE/AMARILIS SINGLE HANDLE SINK FAUCET MODEL # 7100.271H

P-10 - WALL HYDRANT - JOSAM #71020 SERIES WITH VACUUM BREAKER, FREEZE PROOF, ALL BRONZE

EW-1 - ELECTRIC WATER HEATER - THE WATER HEATER SHALL BE STATE PATRIOT MODEL PCE 20 10MSA, RATED AT 4.5 KW, 208 VOLT, 1PHASE, 60HZ. WATER HEATER SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND MEET OR EXCEED THE THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF THE US DEPT OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1. 20 GALLON CAPACITY WITH A RECOVERY CAPACITY OF 23 GPH AT A TEMPERATURE RISE OF 80 DEG F. WITH 4500 WATTAGE.

2 PLUMBING SPECIFICATION
SCALE: NTS

3 PLUMBING GENERAL NOTES:
SCALE: NTS

4 PLUMBING SCHEDULES AND LEGENDS
SCALE: NTS