

PLUMBING SYMBOLS & ABBREVIATIONS	
AW	ACID WASTE
CLG.	CEILING
CW	COLD WATER
DN	DOWN
DR	DRAIN
FD	FLOOR DRAIN
FT	FOOT, FEET
FU	FIXTURE UNIT
HW	HOT WATER
HWR	HOT WATER RETURN
IW	INDIRECT WASTE
LAV	LAVATORY
MS	MOP SINK
NTS	NOT TO SCALE
PG	PRESSURE GAUGE
PLBG	PLUMBING
PS	PANTRY SINK
S	SOIL
SA	SHOCK ABSORBER
SAN	SANITARY
SF	SQUARE FOOT (FEET)
SH	SHOWER
SPECS.	SPECIFICATIONS
SQ.FT.	SQUARE FOOT (FEET)
SS	SERVICE SINK
STD	STANDARD
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT
W	WASTE
WC	WATER CLOSET
O2	OXYGEN
CM	COFFE MAKER
VA	VACUUM
----	EXISTING COLD WATER PIPING TO REMAIN
-----	EXISTING HOT WATER PIPING TO REMAIN
-----	EXISTING HOT WATER RETURN PIPING TO REMAIN
----	EXISTING VENT PIPING TO REMAIN
-----	EXISTING DRAINAGE PIPING TO REMAIN (W, L OR S)
----G----	EXISTING NATURAL GAS PIPING (G)
//////////	EXISTING PIPING TO BE REMOVED
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----	HOT WATER RETURN PIPING (HWR)
-----	DRAINAGE PIPING ABOVE GROUND
-----	DRAINAGE PIPING BELOW SLAB
---SAN---	SANITARY (SAN)
-----	VENT PIPING (V)
----O2----	OXYGEN GAS PIPING (O2)
----MA----	MEDICAL AIR GAS PIPING (MA)
----VA----	VACUUM PIPING (VA)
----G----	NATURAL GAS PIPING (G)
=====	HEAT TRACED PIPING
----->	DIRECTION OF FLOW
○-----	PIPE-UP UNLESS OTHERWISE NOTED
○-----	PIPE DROP UNLESS OTHERWISE NOTED
LOW ○ HIGH	DROP OR RISE
-----○-----	TOP CONNECTION
-----○-----	BOTTOM CONNECTION
-----○-----	VALVED CAPPED OUTLET
-----┘-----	NEW CONNECTION
⊙	SANITARY/WATER RISER DESIGNATION
⊙	POINT OF NEW CONNECTION
⊙	POINT OF DISCONNECTION
⊙	RECIRCULATION PUMP
⊙	AREA DRAIN, FLOOR DRAIN, ROOF DRAIN (AD, FD, RD)
-----	CLEANOUT (CO)
⊙	NEW CLEANOUT DECK PLATE (CODP)
⊕	EXISTING CLEANOUT DECK PLATE (CODP)
-----○	TRAP
-----○-----	GATE VALVE (GV)
-----○-----	BALL VALVE (BV)
-----○-----	CHECK VALVE
-----○-----	O.S.&Y. VALVE
-----○-----	EXISTING BALL VALVE
-----○-----	VACUUM BREAKER (VB)
-----○-----	WATER HAMMER ARRESTOR
-----○-----	CONCENTRIC REDUCER
-----○-----	TEMPERATURE & PRESSURE RELIEF VALVE (TP)
-----○-----	PRESSURE GAUGE (PG)
=====	PIPE SLEEVE
=====	HEAT TRACE INSTALLED ON PIPE TYPE
-----TP-----	TRAP PRIMER

PLUMBING NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS AND INTENT SHALL GOVERN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
4. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO OTHER TRADES, STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
5. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
6. DRAWINGS ARE NOT TO BE SCALED.
7. CONTRACTOR SHALL COMPLY WITH ALL NY STATE & LOCAL BUILDING DEPARTMENT REGULATORY AGENCIES BUILDING STANDARDS AND NEW YORK CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
8. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
9. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
10. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
11. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
12. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
13. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE.
14. BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
15. AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
16. VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL; PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
17. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
18. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
19. PLUMBING CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
20. ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
21. THE CONTRACTOR MUST MAKE ALLOWANCE FOR NECESSARY MODIFICATIONS TO EXISTING CONDITIONS TO PERFORM WORK.
22. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MAIN STACKS AND RISERS AND CONNECTIONS FROM EXISTING FIXTURES.
23. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
24. COORDINATE THE NEW WATER, VENT AND SANITARY DRAINAGE PIPING CONNECTION TO THE EXISTING. THE CONTRACTOR SHALL MAKE THE NECESSARY PIPING MODIFICATIONS REQUIRED TO ACCOMMODATE THE CONNECTIONS.

## REMOVAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
2. VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
3. NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH HIS APPROVAL.
4. ALL FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE ARCHITECT.
5. UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
6. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
7. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
8. NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
10. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES ALL DEBRIS RESULTING FROM PLUMBING WORK.

PLUMBING PIPE MATERIAL SCHEDULE		
PIPING SYSTEM	LOCATION	REQUIREMENT
SANITARY PIPING (WASTE AND VENT)	INTERIOR (ABOVE GROUND AND HOUSE DRAIN LINES)	SERVICE WEIGHT CAST IRON (SVC) NO-HUB WITH MECHANICAL STAINLESS STEEL COUPLINGS. GALVANIZED STEEL PIPE SCHEDULE 40, WITH THREADED DRAINAGE FITTINGS ALLOWED FOR 3" DIA AND SMALLER.
DOMESTIC WATER (HOT&COLD)	INTERIOR (ABOVE GROUND)	COPPER TUBING, TYPE L (BLUE COLOR BAR) WITH WROUGHT COPPER SOLDER JOINT FITTINGS SUITABLE FOR SOFT SOLDERING. BRASS, SEAMLESS DRAWN PIPE, REGULAR WEIGHT WITH CAST BRONZE FITTING. GROOVE COPPER PIPE WITH VICTAULIC FITTING IS ALLOWED FOR 2" AND LARGER DIAMETER PIPING. COPPER TUBING FOR SHORT BRANCH CONNECTION TO PLUMBING FIXTURE.
NATURL GAS	INTERIOR (ABOVE GROUND)	NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACL OR SCHEDULE 40 GALVANIZED STEEL. ASTM A53/A53M.

INDEX OF DRAWING	
P-001.00	PLUMBING NOTES, SYMBOLS & SCHEDULES
P-002.00	PLUMBING SPECIFICATIONS
P-101.00	PLUMBING DEMOLITION FLOOR PLAN
P-201.00	PLUMBING FLOOR PLAN

SPECIAL INSPECTIONS	
FIRE-RESISTANT PENETRATIONS AND JOINTS	BC1705.17

PLUMBING FIXTURE CONNECTION SCHEDULE							
CODE		DESCRIPTION	WASTE	VENT	CW	HW	REMARKS
LAV-1		LAVATORY	2"	2"	3/4"	3/4"	PER ARCHITECTURAL SPECIFICATIONS.
WC-1		WATER CLOSET FLUSH TANK	4"	2"	3/4"	-	PER ARCHITECTURAL SPECIFICATIONS.
SK-1		SINK	2"	2"	3/4"	3/4"	PER ARCHITECTURAL SPECIFICATIONS.

PUMP SCHEDULE										
NO.	EQUIPMENT	NO RECD	EACH PUMP GPM	FT TDH	MOTOR DATA					REMARKS
					HP	RPM	PHASE	CYCLE	VOLTS	
CR-1	HOT WATER CIRCULATOR (120°F HW)	1	5	17	1/12	—	1	60	115	BELL & GOSSETT ECOSTAT M09X1BL 20-35 LEAD FREE, TIE-IN TO AQUASTAT FOR 1 TEMPERATURE OPERATION, PUMP SHALL SHUT-DOWN WHEN TEMPERATURE IS WITHIN 3 DEGREES.

WATER HEATER SCHEDULE											
WATER HEATER	LOCATION	RECOVERY RATE(GPH) 40-140 F	KW INPUT	GALLONS STORAGE	EFFICIENCY %	MOTOR DATA			APPROX WEIGHT LBS	DIMENSIONS	REMARKS
						PHASE	CYCLE	VOLTS			
WH-1	EVS 122.6.D	16	4	52	98	3	60	208	145	24"D x 57"H	"AO SMITH" DEN-52
WATER HEATER SHALL BE PROVIDED WITH PRESSURE AND TEMPERATURE RELIEF VALVES AND ENERGY CUT OFF DEVICE AS REQUIRED BY CODE. WATER HEATER EQUIPMENT AND HOT WATER STORAGE TANKS MUST MEET THE REQUIREMENTS OF TABLE 504.2 HOT WATER HEATER PERFORMANCE OF THE NYSECC 504.2. HOT WATER PIPE INSULATION MUST BE PER NYSECC 504.5 & HOT WATER SYSTEM CONTROLS MUST BE PER NYSECC 504.6.											

MISCELLANEOUS EQUIPMENT SCHEDULE					
NO.	EQUIPMENT	LOCATION	CAPACITIES	MANUFACTURER MODEL NO.	REMARKS
TMV-1	THERMOSTATIC MIXING VALVE	LAVS & SINKS	.25 GPM MIN. 3 GPM MAX.	POWERS LFE-480	LEAD FREE
TMV-2	THERMOSTATIC MIXING VALVE	-	32 GPM MAXIMUM 11 GPM MINIMUM @ 5 PSIG DROP	SIMILAR TO LEONARD HIGH LOW THERMOSTATIC MIXING VALVES - XL-32-LF-BDT	LEAD FREE
ET-1	THERMAL EXPANSION TANK	-	2 GAL. VOLUME	SIMILAR TO AMTROL "THERM-X-TROL" MODEL NO. ST-5-C	SET BLADDER PRESSURE TO MATCH DOMESTIC WATER LINE PRESSURE

### GAS PIPING SYSTEM TESTING:

- A. UPON COMPLETION OF THE INSTALLATION OF A SECTION OF A GAS SYSTEM OR OF THE ENTIRE GAS SYSTEM, AND BEFORE APPLIANCES ARE CONNECTED THERETO, THE ENTIRE GAS SYSTEM SHALL BE VERIFIED AS TO MATERIALS, AND TEST AND PROVEN TIGHT BY THE CONTRACTOR, AS FOLLOWS:
- 1. GAS DISTRIBUTION PIPING TESTING:
    - 3.1. TESTING OF DISTRIBUTION PIPING FOR PRESSURES UP TO 1/2" PSIG PER INTERNATIONAL FUEL GAS CODE SECTION 406 SHALL BE TESTED AT 3 PSIG FOR A MINIMUM OF 30 MINUTES.
  - 2. GAS PIPING SUPPORTS:
    - 2.1. GAS PIPING SHALL BE SUPPORTED PER INTERNATIONAL FUEL GAS CODE SECTION 407.
  - 3. GAS CONTROL, VENT, AND RELIEF PIPING:
    - 3.1. METER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITY.
    - 3.2. PURGE ALL PIPING AFTER PRESSURE TEST.
    - 3.3. PURGE ALL EQUIPMENT AFTER PIPING HAS BEEN PURGED.
    - 3.4. GAS TESTS SHALL BE MADE IN THE PRESENCE OF THE REPRESENTATIVE OF THE AUTHORITY, THE DEPARTMENT OF BUILDINGS AND THE GAS COMPANY; AND THE PIPING SHALL BE PROVEN TIGHT TO THEIR ENTIRE SATISFACTION. NOTIFICATION SHALL BE SENT TO THE VARIOUS BUREAUS 72-HOURS IN ADVANCE OF THE TIME SET FOR THE OFFICIAL TEST.
    - 3.5. GAS CONSUMED BEFORE THE BUILDING HAS BEEN ACCEPTED BY THE AUTHORITY WILL NOT BE PAID FOR UNLESS SPECIAL PERMISSION TO USE GAS HAS BEEN GRANTED BY THE AUTHORITY.

PLUMBING PIPE INSULATION		
PIPING SYSTEM	LOCATION	REQUIREMENT
DOMESTIC WATER (COLD)	INTERIOR (ABOVE GROUND)	ALL SIZES - INSULATION THICKNESS 1"
DOMESTIC WATER (HOT & CIRCULATION)	INTERIOR (ABOVE GROUND)	1" DIAMETER AND SMALLER - INSULATION THICKNESS 1" 1-1/2" DIAMETER AND LARGER - INSULATION THICKNESS 1-1/2"

# Montefiore

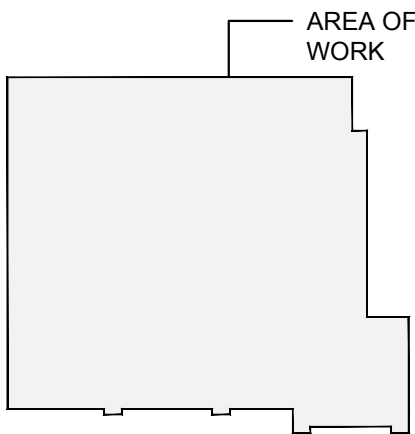
MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE  
NYACK, NY 10960

## OUTPATIENT DIAGNOSTIC & TREATMENT FACILITY ALTERATIONS - MAIN LEVEL

18 NORTH HIGHLAND AVENUE  
NYACK, NY 10960

KEY PLAN: NOT TO SCALE



## ARCHITECT



**Pomarico Design Studio Architecture, PLLC**  
**Michael A. Pomarico, Architect**  
 19 Front Street  
 Newburgh, NY 12550  
 33 Irving Place, 3rd Floor  
 New York, NY 10004

**New York License No.: 019680**  
 Telephone: 845.561.0448  
 Facsimile: 845.561.0446  
[info@HealthCareDesign.com](mailto:info@HealthCareDesign.com)  
[www.healthcaredesign.com](http://www.healthcaredesign.com)

## MEP ENGINEER



Loring Consulting Engineers, Inc.  
360 West 31<sup>st</sup> Street, 14<sup>th</sup> Floor  
New York, NY 10001-2727  
Phone 212.563.7400  
[www.loringengineers.com](http://www.loringengineers.com)  
New York City • Washington, DC • Princeton • Durham • Toronto

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## DRAWING TITLE:

# PLUMBING NOTES, SYMBOLS & SCHEDULES

PROJECT NUMBER	CON #
14404	CAD
DATE	SCALE
11/19/2024	N.T.S.
DRAWING NUMBER	

P-001.00



## 1. APPLICABLE STANDARDS, CODES AND PUBLICATIONS

- ## 2. WORK SCOPE

- #### 4. SUBMITTALS

- ## 5. CUTTING AND PATCHING

- ## 6. RECORD DRAWINGS

- ## 7. TESTS

- ## 8. PRODUCTS

- ## 9. JOINTS

- ## 10. PIPING

- ## 11. PROTECTION AND CLEANING

- ## 12. PIPE AND FITTING INSULATION

- ### 13. PLUMBING FIXTURES & TRIM

- 1) WATER CLOSET (WC)

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EQUIPMENT INFORMATION AND LOCATIONS.

- ## 14. VALVES

- ## 15. DISINFECTION OF POTABLE WATER SYSTEMS

- ## 16. EXECUTION

- ## 17. MATERIALS, DELIVERY, STORAGE AND HANDLING

- ## 18. INSPECTION

- KEY PLAN: NOT TO SCALE



## ISSUED DOCUMENTS:

SEAL

DRAWING TITLE:



# P-101.00

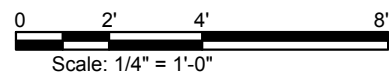








Diagram illustrating the 'AREA OF WORK' within a larger rectangular boundary.

SHELF RATED TO HOLD WEIGHT  
OF FULL WATER HEATER. —