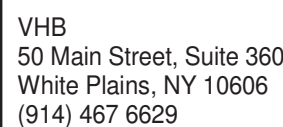


MEP & GEOTECH ENGINEER:



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CIVIL ENGINEER



Renaissance at Lincoln Park
116 Guion Place
Garage Precast
Contract 20-032

New Rochelle, NY

MARK	DATE	ISSUED FOR PERMIT
REVISIONS		
ISSUE:	CONSTRUCTION DOCUMENTS	
ISSUE DATE:	11/23/2020	
PROJECT NO:	2477	
DRAWN BY:	P.C.	
CHECKED BY:	E.E.	

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SHEET TITLE:
PLUMBING LEAD SHEET

P-001.00

PAGE #:

1 OF 8

SYMBOL

DESCRIPTION

STACK & RISER SYMBOLS

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

1. THE CONTRACTOR FOR THIS WORK SHALL CAREFULLY INSPECT AND ACQUAINT THEMSELVES WITH EXISTING CONDITIONS IN ORDER THAT HE FULLY UNDERSTANDS THE WORK REQUIRED. HE SHALL MEASURE AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALING ANY AND ALL LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND UTILITIES TO BE EXPOSED AND IDENTIFIED TO THE SUFFICIENCY OF THE PROJECT ENGINEER FOR RESOLUTION.
3. PIPING LAYOUTS ARE DIAGRAMMATIC AND INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE, AND CAPACITY. THE CONTRACTOR SHALL NOT NECESSARILY FOLLOW THE PLUMBING CONTRACTOR'S ARRANGING AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICTS, WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND WITH THE ELECTRICAL AND ARCHITECTURAL WORK.
4. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AND AROUND REMOVAL OF CEILING TILES IN ALL EXISTING AREAS AS REQUIRED UNDER THIS CONTRACT. TO EXpose ALL WALL AND CEILING AREAS TO BE REPAIRED AND RECONSTRUCTED. THE CONTRACTOR SHALL MATCH ALL EXISTING CEILINGS TO MATCH EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF DEBRIS GENERATED BY THIS WORK AND WORKERS AT THE END OF EACH WORKING DAY. FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS, AND SHALL SUPPLY DEBRIS CONTAINERS(S) DUMPSTERS) AS REQUIRED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICES. FOR SEALING, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL FLOOR AND WALL PENETRATIONS WITH FIRE RATED SEALANT BEFORE FINAL PAYMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ELEMENTS WHICH DO NOT PASS THE TESTING PROCEDURES SPECIFIED AND RETEST REPAIRED PORTIONS OF THE SYSTEM.
8. THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT (EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, SINKS, SHOWERS, TRAPS, ETC.)
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL INDIRECT WASTE PIPING.
10. THE CONTRACTOR SHALL RUN ALL PIPING TO AVOID REINFORCING AND/OR FOOTINGS AT ALL COLLISIONS.
11. DOMESTIC COLD WATER, HOT WATER & CIRCULATION HOT WATER PIPE WILL BE INSULATED.

1. INSTALL SILICONE CAULK (PREMCO OR EQUIVALENT) TO SEAL PERIMETER OF ALL ACCESS DOOR FRAMES AND DRYWALL CONSTRUCTION.
2. ALL ROOF PENETRATIONS SHALL BE SEALED WITH LOW VOC MASTIC TO SEAL PENETRATION THROUGH ROOF. APPLY MASTIC PRIOR TO INSTALLATION OF PIPING.
3. INSTALL MASTIC AS PER MANUFACTURER'S REQUIREMENTS AND SHALL ONLY USE LOW VOC MASTIC AS PER THE USE AS SPECIFIED.
4. PROVIDE EXPANDED CLOSED CELL FOAM RATED FOR 220 DEG F AT GYPSUM BOARD PENETRATIONS OF COPPER HEATING PIPES, SEAL GAP BETWEEN CLOSED CELLFOAM INSULATION AND GYPSUM BOARD WITH SILICONE CAULK.
5. FOR CENTRAL SHAFTS, CONTRACTOR SHALL ENSURE TIGHT DUCT CONSTRUCTION THROUGH CLOTH COVERING OF MANUAL SEALING AS PER PERFORMANCE BASED SPECIFICATIONS OF THE USE OF AUTOMATED SEALING.
6. CONTRACTOR SHALL SEAL ALL PENETRATIONS OF PIPES IN PARTITION WALLS BETWEEN ADJACENT APARTMENTS AND BUILDING ROOMS.

AS PER NEW YORK STATE PLUMBING CODE SECTION 605.3, TABLE 605.3, CROSS-LINKED POLYETHYLENE (PEX) TUBING IS AN ACCEPTABLE MATERIAL TO BE USED FOR WATER DISTRIBUTION PIPE. MATERIALS SHALL BE RATED FOR THE OPERATING TEMPERATURE AND PRESSURE AS PER NEW YORK STATE PLUMBING CODE SECTION 605.3. ALL PIPING SHALL BE INSULATED AS PER THE NEW YORK STATE ENERGY CODE.

[illegible]

1. CONTRACTOR SHALL COORDINATE SOIL TYPE AND ANGLE OF REPOSE PERMITTED WITH ALL THE BUILDING'S NEW BUILDING SEWERS AND HORIZONTAL BRANCHES.
2. CONTRACTOR SHALL MAINTAIN EXISTING ELEVATIONS AND ELEVATIONS OF EXISTING ELEVATIONS AND FOOTING ELEVATIONS AND COORDINATE DETAILS OF PIPING THOUGH OUTSIDE WALL WITH THE ARCHITECT, GENERAL CONTRACTOR AND STRUCTURAL ENGINEERS ETC.
3. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO STORM, SANITARY LATERALS AND ALLIED SITE CONNECTIONS.
4. CONTRACTOR SHALL PROVIDE CONSTRUCTION DRAWINGS ILLUSTRATING ALL THE ELECTRICAL CONDUIT ROUTINGS AND ELEVATIONS BEFORE PROCEEDING WITH ANY EXCAVATION FOR THE CONTRACTOR SHALL COORDINATE WITH ACTUAL FIELD CONDITIONS.
5. FINAL DIMENSIONS, INVERT ELEVATIONS, AND ROUTING OF ALL PIPING, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR SHALL SUBMIT ALL THE REQUIRED DRAWINGS FOR REVIEW AND APPROVAL BY THE APPROVED SHOP DRAWINGS, CONTRACT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, MECHANICAL, ELECTRICAL WORK, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

2. ALL WORK WILL CONFORM TO THE NEW YORK STATE PLUMBING CODE 2010 EDITION.
3. ALL PIPING PASSING THROUGH OR UNDER WALLS OR FOOTINGS SHALL BE PROTECTED FROM BREAKING AND CORROSION.
4. TRENCHING, EXCAVATION AND BACK-FILLING - CHAPTER 3, PG. 300.
5. ALL SLEEVES SHALL BE AS PER CHAPTER 3, PG. 305.
6. ROOF DRAIN PROOFING SHALL BE AS PER CHAPTER 3, PG. 304, AND APPENDIX F.
7. TOILET FACILITIES FOR WORKMAN SHALL BE AS PER CHAPTER 3, PG. 321.
8. MATERIALS FOR PLUMBING SHALL CONFORM TO TABLES 702.1, 702.2, 702.3 AND 702.4.
9. SHALL BE IDENTIFIED AS PER 702.2.
10. PIPING SYSTEMS MATERIALS SHALL BE AS PER PG. 702.
11. MINIMUM NUMBER OF PLUMBING FIXTURES WILL COMPLY WITH P403 TABLE 403.1.
12. FLOODING DEVICES FOR WATER CLOSETS SHALL BE AS PER PG 425.1 THROUGH PG 425.3.2.
13. SIZE OF WASTE OUTLETS FOR PLUMBING SHALL BE AS PER CHAPTER 4:
 - 11.a. WATER CLOSET - AS PER SECTION PG. 420
 - 11.b. LAVATORY - AS PER SECTION PG. 416
 - 11.c. BATHTUB - AS PER SECTION PG. 418
 - 11.d. SINK - AS PER SECTION PG. 417
 - 11.e. DISHWASHER - AS PER SECTION PG. 409
 - 11.f. AUTOMATIC CLOTHES WASHER - AS PER SECTION PG. 406
 - 11.g. LAUNDRY TRAY - AS PER SECTION PG. 415
 - 11.h. FLOOR DRAIN - AS PER SECTION PG. 412
14. TRAP AND CLEANOUTS WILL BE PROVIDED AS PER CHAPTER 10 PG 8 AND PG 708.
15. BUILDING HOUSE TRAP SHALL BE AS PER CHAPTER 10, PG. 1002.2.
16. DRAINAGE PIPE CLEANOUTS SHALL BE AS PER PG 708.
17. HANGERS AND PIPING SUPPORTS SHALL BE AS PER CHAPTER 3, PG. 308.
18. WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE AS PER CHAPTER 4.
19. WATER SUPPLY DISTRIBUTION SYSTEM SHALL BE AS PER CHAPTER 6, PG 604 WITH MINIMUM RATE OF FLOW AND PRESSURE AS PER TABLE 604.3, AND 604.4.
20. HOUSE AND BOOSTER PUMPS SHALL BE AS PER CHAPTER 6, PG. 604.
21. WATER SUPPLY WILL BE PROTECTED AGAINST BACKFLOW AND BACKSPHONAGE AS PER CHAPTER 6.
22. SANITARY DRAINAGE PIPING WILL CONFORM TO PG 701.
23. SIZING OF THE SANITARY DRAINAGE PIPING SHALL BE AS PER CHAPTER 7, PG. 710.
24. VENT PIPING SHALL CONFORM TO CHAPTER 8.
25. STORM DRAINAGE PIPING SHALL BE AS PER CHAPTER 11.
26. GAS PIPING SHALL BE AS PER CHAPTER 4 OF THE NYS GAS FUEL GAS CODE 2007.
27. PROVIDE STERILIZATION OF DOMESTIC WATER AS PER CHAPTER 6, PG. 610.

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING A CONTRACT OR AN ACCORDANCE.

DESIGNATION	ZURN I.D. SUTPH SERIES NO.	BODY												STRAINER												REMARKS					
		CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	ROOF SUMP RECEIVER	INSIDE CAULK	STAINLESS STEEL	DUCTILE IRON	CAST IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	S.S. MESH SCREEN	FUNNEL TOP	FLAT TOP			DOME	RAISED UP EXTENSION	SECURED GRATE	ANGLE GRATE
FD	2233	o						o			o					o					o			o							SPRINKLER ROOMS(MEDIUM DRAIN WITH SAFE SET BUCKET)
GD	2250	o			o										o																GARAGE(HEAVY DUTY DRAIN WITH SEDIMENT BUCKET)
FD	3250	o			o									o											o						SPRINKLER ROOM 24 5/8" LG X 12" W X 17" H

NOTE:
PROVIDE ALL FLOOR DRAINS WITH TRAP GUARD TO PROTECT FLOOR DRAIN TRAP SEAL.

GENERAL NOTES:

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. ALL PIPING SHALL BE 12" DIA. UNLESS OTHERWISE NOTED. R.W.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "1" COPPER PIPE U.N.O.
2. ALL PIPING SHALL BE FINISHED WITH POLISHED FINISH FLOOR. TYPE FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
3. ALL PIPING AND RISERS EXPOSED TO POSSIBLE IMPINGEMENT DAMAGE SHALL BE PROTECTED W/ PIPE COVERS. ALL RISERS SHALL BE PROTECTED W/ GUARDS.
4. PROVIDE CAST IRON PIPE SLEEVES "2" LARGER THAN PIPE SIZE. SEAL AT GRADE SLAB WITH 1/2" THICK POLYURETHANE "FIBERGLASS" SEAL. OPENING W/ APPROVED SEALANT. TYPICAL AT GRADE PIPES.
5. PROVIDE 13 G/ CY. CONCRETE THURST BOLT BASED AT BASE OF ALL RAIN WATER DOWNSPUTTERS AND COLD WATER RISERS AND POSITIVE BODIES BELOW GRADE, FOR SUPPORT.
6. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE WEIGHT OF THE PIPING AND RISERS AND BE PROTECTED FROM ALL UNLAWFUL LOADS. CONDITIONS: SEE DETAILS 3-4 4M-001.
7. COORDINATE ALL BLOCK-OUTS REQUIRED W/ GENERAL CONTRACTOR.
8. PROVIDE ALL BLOCK-OUTS REQUIRED W/ GENERAL CONTRACTOR. PROVIDE ALL BLOCK-OUTS BASED ON ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. PROVIDE ALL BLOCK-OUTS REQUIRED W/ GENERAL CONTRACTOR. PROVIDE ALL BLOCK-OUTS BASED ON ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
10. PROVIDE EXPANSION LOOPS AT ALL LOCATIONS PIPING CROSSES EXPANSION JOINTS. PROVIDE EXPANSION LOOPS AT ALL VALVES AND ACCESSORIES INDICATED ON THE DRAWINGS ARE DIAGNOSTIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, PIPE SIZING, DRAINAGE, AND ALL OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL DRAWINGS AND CALC'S REQUIRED BY THE FIRE MARSHAL AND ENGINEER.
11. ALL BLOCK-OUTS REQUIRED TO BE LOCKED OR MONITORED BY THE N.F.P.A. SHALL BE LOCKED.
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UNIT DESIG.	LOCATION	EQUIPMENT OR SYSYTEM SERVICED	GPM (EA)	TOTAL HEAD (FT.)	FLUID TEMP. (F°)	IMPELLER DIAM. (IN.)	MANUFACTURER AND MODEL NO.	MOTOR DATA			RPM	SEAL TYPE	PUMP TYPE	REMARKS
								BHP	HP (EA)	VOLT/HP				
ELEVATOR SUMP PUMP	CELLAR	ELEVATOR PIT	50	22	50		W/ 2 PUMP PEEERLESS MODEL C615J STANCOR MODEL SE-50	0.5	208/1	3450		VERTICAL SUBMERSIBLE	W/ STANCOR OIL-MINDER	
DUPLEX SEWAGE EJECTOR PUMP	CELLAR	GARAGE DRAINS	50	25	50		STANCOR MODEL SE-50	2	208/3	3450		VERTICAL SUBMERSIBLE	W/ 4" DISC HARGE AND CONTROLLERS	

NOTES:

1. PROVIDE RESETTABLE ALTERNATOR AND AUTO-CHANGEOVER IN EVENT OF LEAD PUMP FAILURE, WITH ALARM
2. PUMPS SHALL BE ON 4" MIN. CONCRETE PAD. COORDINATE WITH G.C..
3. PROVIDE VIBRATION ISOLATION ON PIPING 15ft. FROM EA. SIDE OF PUMPS.

N = NOT IN CONTRACT, FOR REFERENCE ONLY
F = FULL SCOPE - ALL SCOPE ON DRAWINGS APPLIES TO SINGLE CONTRACT ONLY
S = SPLIT SCOPE. SEE SUMMARY OF WORK SPECIFICATIONS FOR CLARIFICATION

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