



**PLUMBING SPECIFICATION**

**1. GENERAL**

- A. ADHERE TO THE APPLICABLE CONDITIONS INDICATED IN THE ARCHITECTURAL SPECIFICATIONS.
- B. EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES AND FIELD VERIFY THE LOCATION OF ALL OTHER EQUIPMENT THAT AFFECTS THIS WORK.
- C. VISIT AND CAREFULLY EXAMINE THE EXISTING SPACE SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- D. BASE ALL LABOR PRICING ON REGULAR TIME (NON-PREMIUM TIME). HOWEVER, ALL CONNECTION SCHEDULING MUST BE APPROVED BY THE CLIENT PRIOR TO INTERRUPTION OF ANY BUILDING'S SERVICES. SUBMIT ADDITIONAL COST FOR EVALUATION TO MAKE EACH NEW CONNECTION ON PREMIUM TIME.
- E. REMOVE EXISTING PLUMBING FIXTURES WHERE INDICATED ON PLUMBING AND/OR ARCHITECTURAL DRAWING. PLUG AND CAP ASSOCIATED PIPING BEHIND FINISHED SURFACES. LEAVE ALL PLUGGED ENDS OF DRAINS AND VENTS LESS THAN 2 FEET LONG TO AVOID DEAD ENDS.
- F. REPAIR OR REPLACE ALL DAMAGED PIPING AND FIXTURES DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT WITH MATERIALS MATCHING THE EXISTING.
- G. ALL INSTALLED PLUMBING SYSTEMS SHALL BE COMPLETE WITH ALL PIPES, FITTINGS, TRAPS, SUPPLIES, VALVES, HANGERS AND SUPPORTS, INSULATION, ETC. AND ALL OTHER ITEMS NECESSARY FOR COMPLETE, SATISFACTORY OPERATING AND APPROVED TYPE SYSTEM.
- H. ALL PIPE FITTINGS, VALVES, FIXTURES, HANGERS, SUPPORTS, INSULATION, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE.
- I. INSTALL ALL PLUMBING WORK IN STRICT ACCORDANCE WITH THE NEW YORK CITY CODE AND CONFORM TO THE REQUIREMENTS OF THE BUILDING STANDARDS, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- J. OBTAIN ALL THE NECESSARY PERMITS AND APPROVALS TO PROVIDE A COMPLETE JOB. TRANSMIT CERTIFICATION AND PERMITS TO THE OWNER AT THE COMPLETION OF THE WORK.
- K. SUPPORT ALL PIPING FROM THE STRUCTURE. DO NOT HANG PIPE FROM ANY OTHER PIPING, DUCTS OR EQUIPMENT.

**2. TESTING**

- A. TEST ALL PLUMBING PIPING IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CITY OF NEW YORK.
- B. PERFORM TESTS ON ALL NEW WORK PRIOR TO CONCEALING SAME AND/OR THE INSTALLATION OF INSULATION.

**3. CLEANING**

- A. TEST ALL PLUMBING PIPING IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CITY OF NEW YORK.
- B. PERFORM TESTS ON ALL NEW WORK PRIOR TO CONCEALING SAME AND/OR THE INSTALLATION OF INSULATION.

**4. SHOP DRAWINGS**

- A. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, SUBMIT A LIST OF PROPOSED MANUFACTURERS FOR APPROVAL. SUBMIT FIVE (5) COPIES OF THE LIST.
- B. SUBMIT SIX (6) PRINTS OF PIPING SHOP DRAWINGS.
- C. PRIOR TO INSTALLING OR SUBMITTING FOR APPROVAL ANY PORTION OF THE WORK, COORDINATE WORK WITH ALL OTHER TRADES. AFFIX INDICATION OF THIS COORDINATION TO EACH SHOP DRAWING SUBMITTED FOR APPROVAL.

**5. RECORD DRAWINGS**

- A. SUPPLY REPRODUCIBLE RECORD DRAWINGS INDICATING AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.

**6. PIPE AND FITTINGS**

- A. CONFORM TO THE LATEST ASTM AND/OR FS STANDARDS AND LOCAL CODES.
- B. GAS PIPING AND FITTINGS
  - 1) GAS PIPING: BLACK STEEL PIPE, SCHEDULE 40, SEAMLESS IN ACCORDANCE WITH ASTM A-120 WITH THREADED PLAIN MALLEABLE IRON STEAM PATTERN FITTINGS.

**7. VALVES**

- A. GAS CONTROL VALVES, ROCKWELL-NOROSTROM TYPE PV-1, THREADED SEMI-STEEL LUBRICATED PLUG COCK.

**8. VALVE TAGS AND CHART**

- A. EACH VALVE, EXCEPT VALVES AT FIXTURES, SHALL HAVE A 2 INCH DIAMETER BRASS TAG WITH 1 INCH HIGH NUMERICAL STAMPED THEREON, SECURED TO THE VALVE BY MEANS OF BRASS'S HOOK OR BRASS CHAIN. EACH SYSTEM TO HAVE

A LETTER DESIGNATION IDENTIFYING SOURCE AS WELL.

- B. THE CONTRACTOR SHALL FURNISH AN APPROVED, NEATLY DRAWN VALVE CHART, PROPERLY FRAMED, SHOWING THE USE AND LOCATION OF EACH VALVE THAT IS TAGGED.

**9. EXPANSION JOINTS AND ANCHORS**

- A. PROPER PROVISIONS SHALL BE MADE FOR EXPANSION AND CONTRACTION OF ALL PIPES AND THE PIPING SHALL BE ARRANGED WITH ALL NECESSARY PIPE EXPANSION LOOPS AND SWING JOINTS.
- B. MAINS AND BRANCHES MUST BE SO INSTALLED WITH SWING CONNECTIONS SO AS TO PERMIT FREE EXPANSION OF PIPING.

**10. CUTTING AND PATCHING**

- A. DO NOT DISTURB ANY EXISTING STRUCTURE, PIPING, APPARATUS, OR OTHER WORK. WHERE CUTTING, DRILLING, OR REMOVALS ARE REQUIRED IN EXISTING WALL, FLOOR OR ROOF CONSTRUCTION. PERFORM THE WORK IN A MANNER THAT WILL SAFEGUARD AND NOT ENDANGER THE STRUCTURE. PRIOR TO ANY CUTTING, DRILLING OR REMOVALS, INVESTIGATE BOTH SIDES OF THE SURFACE INVOLVED AND DETERMINE THE EXACT LOCATION OF ADJACENT STRUCTURAL MEMBERS BY VISUAL EXAMINATION. ALL CUTTING AND PATCHING MUST BE COORDINATED BY THE GENERAL CONTRACTOR. REFER TO GENERAL CONSTRUCTION SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- B. EMPLOY MAXIMUM USE OF CORE DRILLING FOR PENETRATIONS THROUGH THE EXISTING STRUCTURE. DO NOT JACK HAMMER OR USE ANY OTHER CHIPPING METHODS EXCEPT WHERE AND WHEN SPECIFICALLY APPROVED BY THE ARCHITECT.

**11. SLEEVES**

- A. PROVIDE SLEEVE FOR ALL PIPING PENETRATIONS THROUGH WALLS AND POURED FLOORS.
- B. SLEEVES TO HAVE AN INTERNAL DIAMETER 1" LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE, INCLUDING COVERING, UNLESS OTHERWISE NOTED HEREIN.
- C. CARRY INSULATION THROUGH PIPE SLEEVES.
- D. INSTALL CAULKING BETWEEN PIPES AND PIPE SLEEVES AS FOLLOWS:
  - 1) FLOORS: OAKUM HEMP OR LEAD OR AS SPECIFIED FOR FIRE RATED SHAFT WALLS BELOW.
  - 2) WATERPROOF WALLS: PERMANENT PLASTIC WATERPROOF CAULKING COMPOUND, OR FIBERGLASS TO WITHIN 1/2" OF SURFACE AND FINISH WITH CAULKING COMPOUND.
  - 3) FIRE RATED SHAFT WALLS: MINERAL WOOL SEALED WITH JOHNS-MANVILLE "DUXSEAL", INSTALL ESCUTCHEON WITH SET SCREW ON BOTH SIDES OF THE WALL.

**12. HANGERS, ANCHORS INSERTS**

- A. PROVIDE SUBSTANTIAL SUPPORT AND FASTENING FOR ALL EQUIPMENT AND APPARATUS. STRAP IRON OR PERFORATED STRAPS ARE NOT ACCEPTABLE. ATTACH TO BUILDING STRUCTURE WITH BEAM CLAMPS, SHOT OR POURED INSERTS OF PHILLIPS OR OTHER 3/4" EXPANSION BOLTS AND SHIELDS.
- B. FURNISH ALL NECESSARY HANGERS, SUPPORTS, INSERTS, CLAMPS, ETC. AS REQUIRED. ALL HANGERS AND SUPPORTS SHALL BE OF HEAVY CONSTRUCTION AND SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED. ALL INSERTS AND HANGERS SHALL BE INSTALLED TO CLEAR WORK OF OTHER TRADES.
- C. ALL HORIZONTAL CAST IRON PIPING SHALL BE SUPPORTED ON FIVE (5) FOOT CENTERS AND AT ALL JOINTS. ALL HORIZONTAL SCREWED PIPING SHALL BE SUPPORTED BY HANGERS SPACED NOT OVER TEN (10) FEET APART. ALL BRANCHES SHALL HAVE SEPARATE HANGERS. HANGERS SHALL BE CLEVIS TYPE, CONSTRUCTED OF HEAVY BAR STEEL STOCK, WITH PROPER SIZE SUSPENSION ROD AND LOCKNUTS, WHERE PIPING IS SUPPORTED FROM THE FLOOR, PROVIDE ADJUSTABLE PIPE SADDLE SUPPORT WITH U-BOLT.
- D. WHERE PIPES ARE TO BE INSULATED, THE HANGERS SHALL BE OF AMPLE SIZE TO PROVIDE FOR THE COVERING SPECIFIED AND BE PROVIDED WITH GALVANIZED STEEL INSULATION SHIELDS.
- E. ALL HANGERS, ROOS, BEAM CLAMPS, ETC. SHALL BE SHOP ZINC COATED.
- F. ALL HORIZONTAL COPPER TUBING SHALL BE SUPPORTED BY HANGERS NOT OVER SIX (6) FEET APART FOR PIPING 1-1/4 INCH AND SMALLER AND NOT OVER TEN (10) FEET APART FOR PIPING 1-1/2 INCH AND LARGER. ALL BRANCHES SHALL HAVE SEPARATE HANGERS. HANGERS SHALL BE CLEVIS TYPE WITH COPPER BOTTOM SUPPORT. IF CHANNEL OR ANGLE IRON TRAPEZE HANGERS ARE USED, THE SPACE ON HANGERS FOR THE COPPER TUBING SHALL BE WRAPPED WITH LEAD SHIELDS TO ISOLATE TUBING.
- G. IN AREAS OF STEEL CONSTRUCTION, PIPE HANGERS SHALL BE SUPPORTED BY BEAM CLAMPS. COORDINATE WITH ENGINEER FOR MAXIMUM LOADING. BEAM CLAMPS SHALL BE STEEL WITH BOLT, NUT AND SOCKET THREADED FOR ROD CONNECTION AND SHALL BE F & S MANUFACTURING COMPANY FIG. #45, CENTRAL IRON, GRINNELL COMPANY, OR APPROVED EQUAL.

**13. CONNECTIONS TO EXISTING WORK**

- A. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO

EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATIONS OF EXISTING FACILITIES. SUBMIT TO THE OWNER FOR APPROVAL DATE SCHEDULE OF NECESSARY TEMPORARY SHUT-DOWN OF EXISTING SERVICES. ALL SHUT-DOWNS MUST BE MADE AT SUCH TIME AS WILL NOT INTERFERE WITH REGULAR OPERATION OF EXISTING FACILITIES AND ONLY AFTER WRITTEN APPROVAL OF THE BUILDING'S MANAGEMENT.

- B. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER; RESTORE EXISTING WORK DISTURBED TO ORIGINAL CONDITION.
- C. CHECK AND REPAIR OR REPLACE IF REQUIRED, EXISTING VALVES REQUIRED TO BE CLOSED FOR CONNECTION OF NEW WORK.
- D. PROVIDE CAPPED AND PLUGGED OUTLETS ON ALL NEW CONNECTIONS TO EXISTING WORK. ARRANGE FOR EASY EXTENSION TO FUTURE TENANTS.

**14. CONNECTION TO MISCELLANEOUS EQUIPMENT**

- A. PROVIDE ALL NECESSARY PIPE, FITTINGS, VALVES, ETC. EXCEPT AS OTHERWISE SPECIFIED AND MAKE ALL FINAL PLUMBING PIPING CONNECTIONS, INCLUDING WASTE, VENT, HOT AND COLD WATER, ETC., TO ALL EQUIPMENT REQUIRING SAME, FURNISHED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
- B. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE, FOR INSTALLATION BY THE PLUMBING CONTRACTOR, ALL FAUCETS, OVERFLOW AND DRAIN ASSEMBLIES, VACUUM BREAKERS EXCEPT AS HEREIN SPECIFIED, COFFEE STATION WATER FILTERS, BOOSTER HEATER.

**15. DEMOLITION, REMOVALS AND ALTERATIONS**

- A. PROVIDE ALL MATERIALS, LABOR AND SUPERVISION REQUIRED TO REMOVE, RELOCATE AND ALTER THE EXISTING PLUMBING SYSTEMS AS INDICATED ON THE PLUMBING PLANS.
- B. PERFORM THE WORK AS SCHEDULED BY THE CONSTRUCTION MANAGER. PLAN INSTALLATION OF NEW AND INTERIM WORK TO INSURE MINIMUM INTERFERENCE WITH THE REGULAR OPERATING OF THE FACILITY. SUBMIT SHUTDOWN SCHEDULE TO OWNER FOR APPROVAL PRIOR TO PERFORMING THE WORK.
- C. THIS WORK INCLUDES DISCONNECTION AND REMOVAL OF PLUMBING FIXTURES FROM WALLS OR FLOORS, DISCONNECTING PIPING AT STACKS OR RISERS AND CAPPING TO AVOID DEAD ENDS, RECONNECTING ALL SYSTEMS AS REQUIRED TO ASSURE CONTINUITY IN CIRCULATING AND SUPPLY LINES AND RAISING ALL PLUMBING LINES WHERE REQUIRED TO CLEAR NEW HUNG CEILING HEIGHTS.
- D. ALL BULK DEMOLITION CONCEALED IN CONSTRUCTION AND OTHERWISE BETWEEN REMOVAL POINTS DESCRIBED ABOVE WILL BE PROVIDED UNDER OTHER WORK.
- E. TURN OVER REMOVED FIXTURES, PIPING AND EQUIPMENT TO THE OWNER TO DISPOSE OF, OR AS OTHERWISE DIRECTED.
- F. PROVIDE INTERIM WORK, IF REQUIRED, FOR CONTINUED UNINTERRUPTED SERVICE WHERE EXTENDED SHUTDOWN IS REQUIRED.

**16. ACCESS DOORS**

- A. PREPARE A LIST OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF CONCEALED EQUIPMENT, VALVES, CONTROLS, AND OTHER SIMILAR DEVICES. THE GENERAL CONTRACTOR WILL FURNISH AND INSTALL SAME. ACCESS DOORS TO BE OF AMPLE SIZE AND MINIMUM OF 12" X 12".
- B. IN ADVANCE OF CEILING INSTALLATIONS, SUITABLY FIELD TAG AND IDENTIFY ALL CONCEALED EQUIPMENT, VALVES, DAMPERS, ETC., WHICH REQUIRE ACCESS DOOR PROMIONS.

**17. GUARANTEE**

- A. THIS CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNERS, ALL MATERIALS, APPARATUS AND WORKMANSHIP WHETHER FURNISHED BY HIMSELF OR BY HIS SUBCONTRACTORS, SUBCONTRACTORS AND HE SHALL REPLACE OR REPAIR IN A MANNER APPROVED BY THE ARCHITECTS, WITHOUT COST TO THE OWNER, ANY PARTS OR PARTS OF THE WORK WHICH MAY PROVE DEFECTIVE OR UNSATISFACTORY WITHIN THE PERIOD OF THE GUARANTEE.
- B. WHERE SPECIAL GUARANTEES COVERING INSTALLATION, OPERATION OR PERFORMANCE OF ANY SYSTEMS OR APPLIANCES FURNISHED UNDER THIS CONTRACT ARE REQUIRED, THE FULL RESPONSIBILITY FOR THE FULFILLMENT OF SUCH GUARANTEES MUST BE ASSUMED BY THE CONTRACTOR WHO SHALL OBTAIN WRITTEN GUARANTEES, IN TRIPLICATE, WHICH SHALL BE FILED WITH THE ARCHITECT BEFORE FINAL ACCEPTANCE.
- C. CONTRACTOR WILL BE RESPONSIBLE FOR ALL LEAKS IN ALL PIPES FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION OF WORK UNDER THIS CONTRACT. CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER, ALL SUCH LEAK WHICH OCCUR AFTER COMPLETION OF THIS CONTRACT UPON 24 HOURS NOTICE THEREOF BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR. LEAKS WHICH OCCUR PRIOR TO THE COMPLETION OF THIS CONTRACT SHALL BE REPAIRED AT ONCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY SUCH LEAKS AND THE REPAIR THEREOF AND WILL REIMBURSE THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR FOR ALL EXPENSE INCURRED THEREBY.
- D. DISINFECTION: THE POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE. A METHOD OF DISINFECTION IN ACCORDANCE WITH THE NEW YORK CITY PLUMBING CODE SECTION PC 610. THE POTABLE WATER PURITY TEST RESULT FROM A NEW YORK CITY CERTIFIED TESTER SHALL BE SUBMITTED FOR ENGINEER'S REVIEW AND APPROVAL.

DISCLAIMER NOTE

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2. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO START OF WORK.  
3. IT IS A VIOLATION OF NYS EDUCATION DEPT. LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER THIS PLAN IN ANY WAY.  
4. THIS LAYOUT COMPLES WITH THE 2010 E.C.C.C. NYS LOCAL LAW 49/2010 & LOCAL LAW 1/2011

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PROJECT ADDRESS:

HEAT ME  
53 WOOSTER STREET  
NEW YORK, NEW YORK

SHEET TITLE:  
PLUMBING SPECIFICATIONS

DATE:	03-23-20
PROJECT #:	4264-004
SCALE:	NONE

NYC DOB BSCAN.

DRAWING NUMBER:

P-601.01

SHEET: 4 OF 4

DOB NOW APPLICATION  
#M0035073-11

NYC DOB STAMPS & SIGNATURES



TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and Floodway Data have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only to landward of 500 National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was New York State Plane FIPS/ZONE 1814. The horizontal datum was NAD 83, GRS80 ellipsoid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Service  
NOAA, NWS12  
National Geodetic Survey  
SSM-C-1, 90222  
1315 East-West Highway  
Silver Spring, Maryland 20910-3182  
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Department of Information Technology and Telecommunications, City of New York. The information was derived from digital orthophotos produced at a scale of 1:1,200 with 2-foot pixel resolution from photography dated 2004.

Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contain authoritative hydraulic data) may reflect stream channel positions that differ from what is shown on this map. Also, the used to floodplains relationships for un-leaded streams may differ from what is shown on previous maps.

Corporation limits shown on this map are based on the best data available at the time of publication. Boundary changes due to annexations or dis-annexations may have occurred after this map was published; map users should contact appropriate community officials to verify current corporation limit locations.

Please refer to the separately printed Map Index for an overview map showing the layout of map panels for this jurisdiction.

Contact the FEMA Map Service Center at 1-800-358-9418 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of the map. The FEMA Map Service Center may also be reached by Fax at 1-800-338-9620 and its website at <http://www.fema.gov>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.



**PROJECT LOCATION**  
53 WOOSTER  
MANHATTAN, NEW YORK, 10013  
THIS PROJECT IS LOCATED  
WITHIN A FLOOD ZONE  
OR A COASTAL HAZARD  
AREA ZONE "X"

**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual flood (100-year flood) also known as the base flood, is the flood that has a 1% chance of being equal or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AV, AR, and X. The base flood elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A**  
No Base Flood Elevations determined.

**ZONE AE**  
Base Flood Elevations determined.

**ZONE AH**  
Flood depths of 1 to 3 feet (usually areas of existing) Base Flood Elevations determined.

**ZONE AO**  
Flood depths of 1 to 3 feet (usually areas of existing) average degree exposure. For areas of minimal loss flooding, variation also determined.

**ZONE AR**  
Special Flood Hazard Area temporarily protected from the 1% annual chance flood by a flood control system that was substantially destroyed. Zone AR indicates that the former flood control system is being removed to provide protection from the 1% annual chance or greater flood.

**ZONE AP**  
Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE AV**  
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE AX**  
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X**  
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from the 1% annual chance flood.

**OTHER AREAS**

**ZONE D**  
Areas determined to be outside the 0.2% annual chance floodplain.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary  
0.2% annual chance floodplain boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary

Boundary defining Special Flood Hazard Area Zones and boundaries defining Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.  
Base Flood Elevation line and value; elevation in feet  
East Flood Elevation line and value; elevation in feet

Reference to the National Geodetic Vertical Datum of 1929

Bench mark  
Tiepoint line  
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83); NAD 83  
100-meter Universal Transverse Mercator (UTM) values; zone

600000 FT  
0X5010 X  
#M1.5  
Silver Mile

MAP REPOSITORY  
State or County Map Repository on Map Index  
INITIAL OF MAP DATE  
June 28, 2007  
FLOOD HAZARD RISK/HAZARD MAP REVISIONS  
June 11, 2019  
FLOOD INSURANCE RATE MAP EFFECTIVE  
November 16, 2010  
FLOOD INSURANCE RATE MAP REVISIONS  
November 16, 2010; Revised Flood Hazard Areas, to reflect updated topographic information, and to update map scale.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-426-6420.

MAP SCALE 1" = 500'  
100 METERS

**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF  
NEW YORK,  
NEW YORK  
BRONX, RICHMOND, NEW YORK,  
QUEENS, AND KINGS COUNTIES

PANEL 182 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMPARISON NUMBER DATE SAFETY  
NEW YORK CITY OF 36047 2002 F

MAP NUMBER  
3804970182F

MAP REVISED  
SEPTEMBER 5, 2007  
Federal Emergency Management Agency

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- THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO START OF WORK.
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- THIS LAYOUT COMPLIES WITH THE 2010 E.C.C.C. NYS LOCAL LAW 48/2010 & LOCAL LAW 1/2011

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CONSULTING ENGINEERS  
GUTH-DECONZO CONSULTING ENGINEERS  
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NEW YORK, NY 10001  
212-967-4306

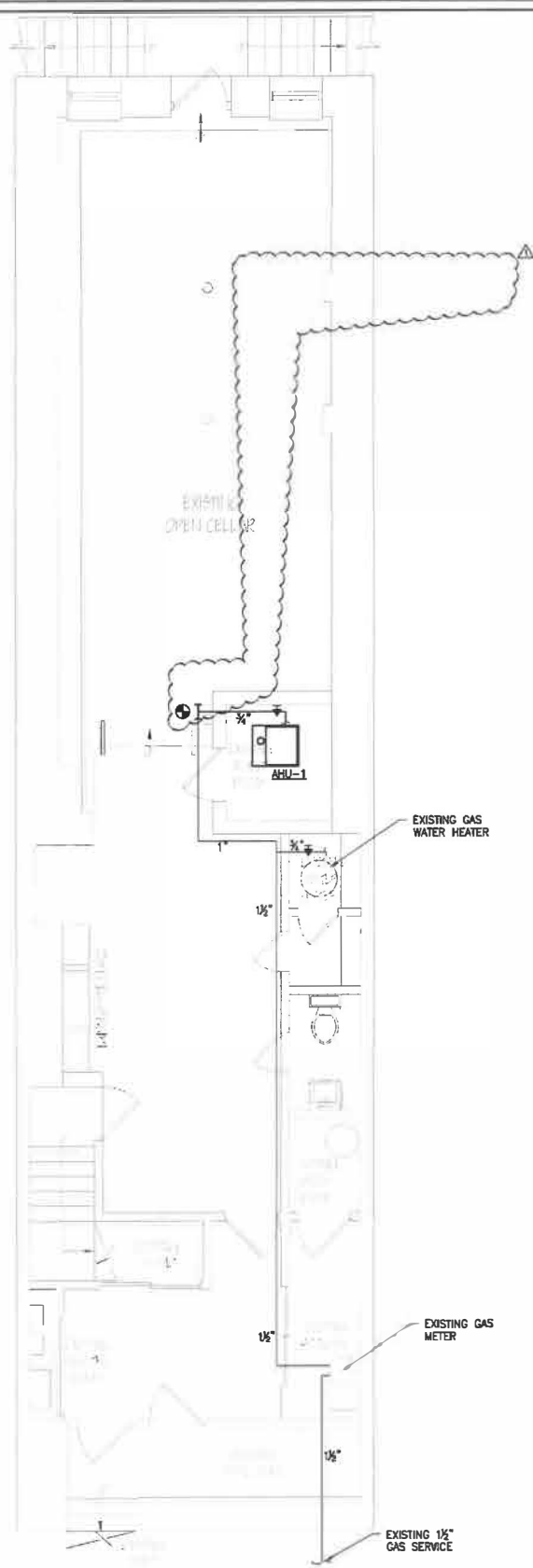
PROJECT ADDRESS  
HEAT ME  
53 WOOSTER STREET  
NEW YORK, NEW YORK

SHEET TITLE  
PLUMBING FLOOD MAPS

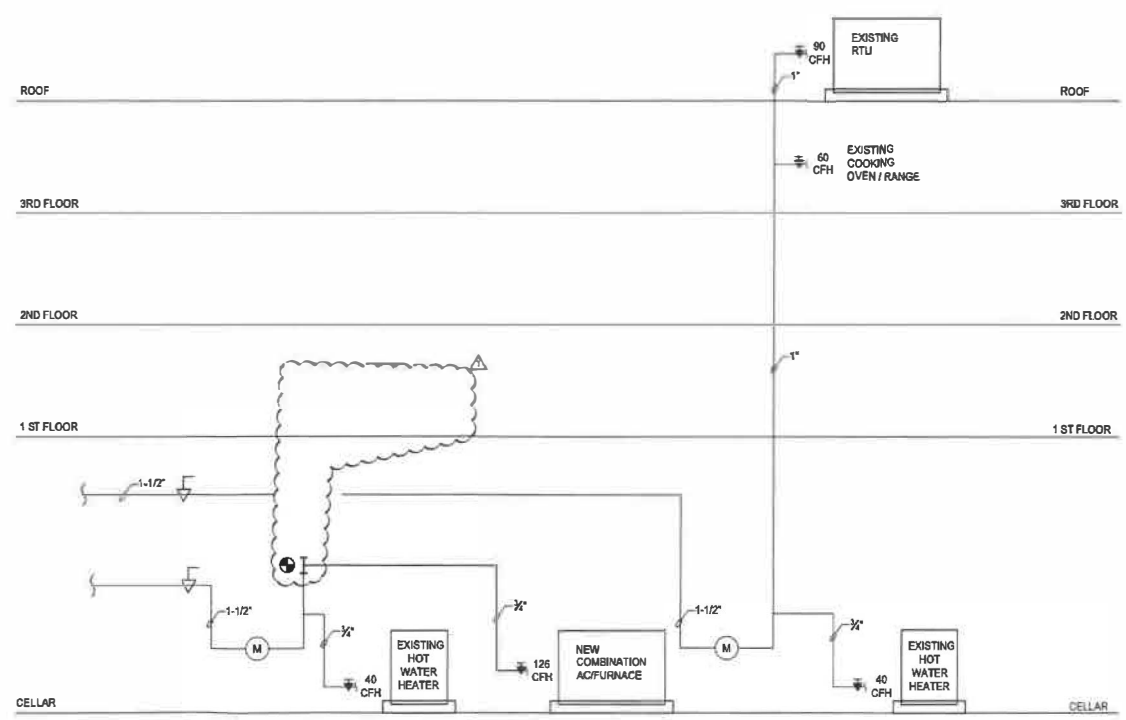
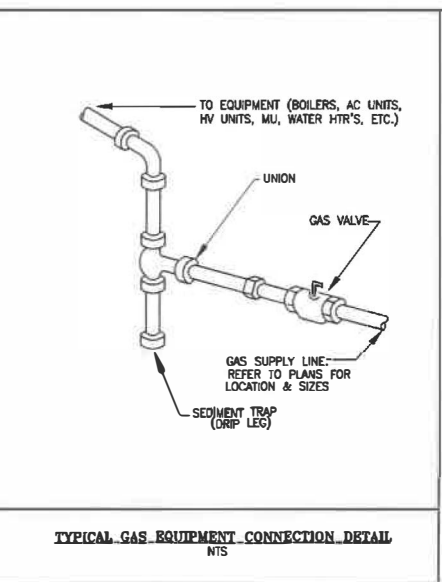
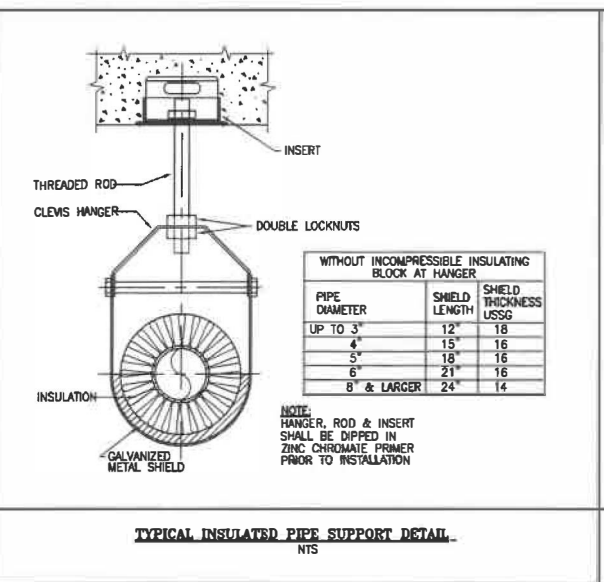
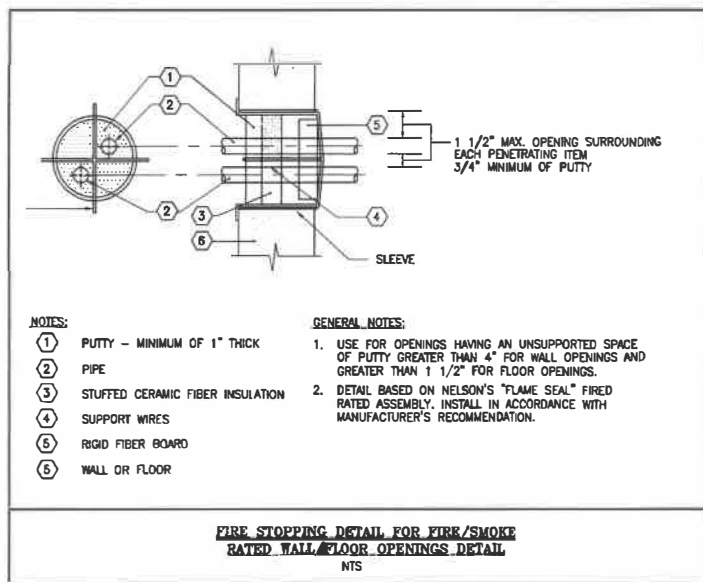
SEAL: DATE: 03-23-20  
PROJECT # 4264-G04  
QUALITY: FAA  
SCALE: NONE

NYC DOB BSCAN: \_\_\_\_\_

DRAWING NUMBER:  
**P-002.01**  
SHEET: 2 OF 4



CELLAR MECHANICAL PLAN  
SCALE: 1/4" = 1'-0"  
8 FEET



DOB NOW APPLICATION #M0035073-11

NYC DOB STAMPS & SIGNATURES

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4. THIS LAYOUT COMPLIES WITH THE 2010 E.C.C.C. NYS LOCAL LAW 482/2010 & LOCAL LAW 1/2011

REVISIONS:

11/25/2020 ISSUED FOR PAA

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PROJECT ADDRESS

HEAT ME  
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NEW YORK, NEW YORK

SHEET TITLE

PLUMBING PLAN, DETAILS & RISER

SEAL: DATE: 03-23-20  
PROJECT #: 4264-G04  
SCALE: 1/4" = 1'-0"

NYC DOB SCAN

DRAWING NUMBER: P-101.01

SHEET 3 OF 4

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

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