BUILDING DEPARTMENT PLUMBING NOTES

ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF TITLE 28, NEW YORK CITY PLUMBING CODE AND NEW YORK CITY FUEL GAS CODE.

- 1. ALL PERMITS SHALL BE OBTAINED AS DIRECTED IN PC 105.
- ALL INSPECTIONS AND TESTING SHALL BE AS OUTLINED IN PC 107, PC 312 AND FGC 406.
- 3. MATERIALS, JOINTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH PC 303, PC PC 605, PC 702, PC 706, PC 804, PC 902, PC 1004, PC 1102 AND FGC 403.
- 4, RODENT PROOFING SHALL BE ACCORDING TO PC 304. 5. PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS SHALL BE AS DIRECTED IN PC 305.
- 6. TRENCHING, EXCAVATION AND BACKFILL SHALL BE AS OUTLINED IN PC 306.
- 7. PIPING SUPPORT SHALL BE AS DIRECTED IN PC 308.
- 8. INSTALLATION OF FIXTURES SHALL BE AS OUTLINED IN PC 405.
- 9. FLOOR AND TRENCH DRAINS SHALL BE IN ACCORDANCE WITH PC 412.
- 10. WATER HEATERS SHALL BE INSTALLED AS DIRECTED IN PC 501 THROUGH PC 505.
- 11. INSTALLATION OF WATER SUPPLY SYSTEM SHALL BE IN ACCORDANCE WITH PC 803 AND PC 606.
- 12. HOT WATER SUPPLY SYSTEM SHALL BE INSTALLED AS DIRECTED IN PC 607.
- 13. PROTECTION OF POTABLE WATER SUPPLY SHALL BE AS OUTLINED IN PC 608.
- 14. DISINFECTION OF POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH PC
- 15. SANITARY DRAINAGE PIPING INSTALLATION SHALL BE AS OUTLINED IN PC 704 AND PC 706.
- 16. CLEANOUTS SHALL BE INSTALLED ACCORDING TO PC 708.
- 17. EJECTORS SHALL BE INSTALLED AS OUTLINED IN PC 712.
- 18. INDIRECT WASTES SHALL BE INSTALLED IN ACCORDANCE WITH PC 802.
- 19, SPECIAL WASTES SHALL BE INSTALLED IN ACCORDANCE WITH PC 803.
- 20. SANITARY VENTS SHALL BE INSTALLED AS DIRECTED IN PC 901 THROUGH PC 916.
- 21. TRAPS SHALL BE INSTALLED AS OUTLINED IN PC 1001 AND PC 1002.
- 22. INTERCEPTORS AND SEPARATORS SHALL BE INSTALLED IN ACCORDANCE WITH PC 1003.
- 23. STORM DRAINAGE PIPING SHALL BE INSTALLED AS DIRECTED IN PC 1101, PC 1106 THROUGH PC 1112.
- 24. SUMPS AND PUMPING SYSTEMS SHALL BE INSTALLED AS OUTLINED IN PC 1113. 25. GAS PIPING INSTALLATION, MATERIAL AND SIZES SHALL ADHERE TO FGC 401, FGC 404, FGC 407 THROUGH FGC 411 AND FGC 415.
- 26. GAS METERS AND GAS SERVICE SHALL ADHERE TO EGC APPENDIX F
- 27. ALL PLUMBING FIXTURES SHALL COMPLY WITH LOCAL LAW 29/89 LOW FLOW FIXTURES.

28. APPROVAL OF KITCHEN AND LOCKER ROOM MUST BE OBTAINED FROM THE HEALTH DEPARTMENT.

29. SECURE PERMIT FROM DOT FOR STREET TRENCHING AND UTILITIES CONNECTION.

30. NEW UTILITIES CONNECTIONS, SANITARY, STORM AND WATER MUST BE APPROVED BY DEC

PLUMBING DEMOLITION & ALTERATION NOTES

- ALL PLUMBING FIXTURES TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. THEY SHALL NOT BE REMOVED FROM THE PREMISES OR DISPOSED OF WITHOUT
- 2. ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED SO THAT UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
- 3. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF THE PROJECT.
- EXISTING EXPOSED PIPING NOT TO BE REUSED AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWINGS TO BE ABANDONED SHALL BE COMPLETELY REMOVED.
- 5. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK
- 6. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
- 7. NO REMOVED EXISTING PIPING, EQUIPMENT, ETC. SHALL BE REUSED.
- 8. ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO WORK BEING DONE SHALL BE COMPLETELY REMOVED.
- THIS CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING FACILITY, NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT PRIOR POSTED NOTICE OF AT LEAST 22 HOURS & THE EXPRESS PERMISSION OF THE OWNER IN WRITING, SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, OWNER & RESIDENTS MADE AS BRIEF AS POSSIBLE ADD ONLY AT THE TIME STATED BY THE OWNER, THE BUILDING IS TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION
- UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
- . REROUTE OR REMOVE ALL EXISTING PIPING WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, MASONRY OR CARPENTRY WORK AS REQUIRED BY THE PROPOSED ALTERATION.

PLUMBING GENERAL NOTES

- 1. ALL WATERIALS AND APPARATUS SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODES AND ALL OTHER AUTHORITIES
- BEFORE SUBMITTING PROPOSAL, BIDDERS SHALL CAREFULLY EXAMINE EXISTING FIELD CONDITIONS AND CONTRACT DRWINGS OF ALL TRADING. SUBMISSION OF PROPOSAL WILL BE CONSTRUCTED AS EVIDENCE THAT REQUIRED EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT AND MATERIALS REQUIRED DUE TO EXISTING FIELD CONDITIONS, WHICH COULD HAVE BEEN FORESEEN, WILL NOT BE RECOONJED.
- PROCUREMENT OF ALL PERMITS AND CERTIFICATES FOR THE INSTALLATION OF THESE SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODING AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES AND ALL EXISTING CONDITIONS, AND PROVIDE AT NO EXTRA COST. ALL ADDITIONAL PINING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID EXISTING/NEW STRUCTURAL, ARCHITECTURAL MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
- . ALL EXISTING PIPING IS SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR TO VERIFY IN FIELD ALL SIZES, LOCATIONS AND ELEWATIONS OF ALL NEW POINTS OF CONNECTION TO EXISTING PIPING. COORDINATE HIS WORK WITH ALL OTHER TRADES.
- 5. CONNECTION TO EXISTING SERVICES SHALL BE PERFORMED DURING OFF-WORK HOURS OR ON WEEKENDS IN PREMIUM TIME. CONNECTION OF NEW WORK TO EXISTING WORK SHALL BE PERFORMED IN NEAT AND APPROVED MANNER, RESTORING EXISTING WORK DISTURBED TO ORIGINAL CONDITION.
- ALL NEW PIPING SHALL BE RUN CLOSE TO BEAMS, WALLS AND SLABS, SQUARE TO BUILDING CONSTRUCTION, CONCEALED ABOVE HUNG CEILINGS AND WITHIN FURRED SPACES.
- ALL EXISTING PIPING, INDICATED AND/OR NOTED TO BE REMOVED, SHALL BE REMOVED BACK TO EXISTING STACKS, RISERS OR MAINS AND CAPPED/PLUGGED AT TERMINAL POINT UNLESS OTHERWISE DIRECTED BY OWNER OR ENGINEER.
- THE CONTRACTOR SMALL NOT INTERRUPT ANY OF SERVICES OF THE EXISTING BUILDING WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE OWNER, AND SUCH INTERRUPTIONS SHALL BE AS BRIEF AS POSSIBLE, AND AT THE TIME AGREED TO WITH THE OWNER.
- UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR, DR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP EXCEPT AREAS DESIGNATED BY OWNER.
- EXISTING PIPING DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED AS REQUIRED WITH MATERIAL AND FINISH TO MATCH EXISTING
- ALL SHUT DOWNS AND TE-INS SHALL BE COORDINATED WITH THE BUILDING MANAGEMENT PRIOR TO COMMERCEMENT. BUILDING MANAGEMENT SHALL DICTATE SCHEDULE OF TIE-INS AND SHUT DOWNS AS REQUIRED.
- 3. ALL PLUMBING WORK INDICATED OUTSIDE OF TENANT SPACES SHALL
- BE APPROVED BY BUILDING MANAGEMEN

PLUMBING INSTALLATION CRITERIA

- EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE THE PREMISES AND THE EXTENT AND CHARACTER OF WORK CONDITION OF REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
- PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING I. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TOR ALL FLOMBING FIXTURES INCLUDING WASTE, VENTS, HOT AND COLD WATER, AND PROVIDE ALL PLUMBING WORK NECESSARY TO MAKE FIXTURES, AND EQUIPMENT ENTIRELY OPERABLE AND ACCEPTABLE TO LOCAL HEALTH AND BUILDING
- OFFICIALS 0.FICALS. 2. ALL VISIBLY EXPOSED PIPE TO EQUIPMENT SHALL BE CHROME PLATED BRASS. PROVIDE INDIVIDUAL SHUT-OFF VALVES FOR ALL PLUMBING FIXTURES AND EQUIPMENT. 3. PROVIDE TRAPS ON ALL WASTE PIPING FROM PLUMBING FIXTURES AND
- FOUIPMENT
- COORDINATE POSITION OF SLEEVING AND OPENINGS THROUGH FLOOR
- COORDINATE POSITION OF SLEEVING AND OPENINGS THROUGH FLOOR WITH THE GENERAL CONTINACTOR.
 PROVIDE VACUUM BREAKERS AND CHECK VALVES FOR THE PLUMBING FIXTURES WHERE AND WHEN REQUIRED BY CODE.
 ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN PLUMBING SYSTEMS.
- A. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF WANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STELL FRAMING AS REQUIRED AND APPROVED. B. NO PLUMBING PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.

ALL HORIZONTAL PIPING RUNS WILL BE AT THE HIGHINGT PRACTICAL ELEVATION AND NOT LESS THAN 6" ABOVE THE FLOOR SD AS TO PROVIDE CLEARANCE.

PLUMBING DRAWING LIST

P-001	PLUMBING SYMBOLS & NOTES	
P-002	PLUMBING FLOOD MAPS	
P-101	PLUMBING PLAN, DETAILS & RISER	
P-601	PLUMBING SPECIFICATIONS	

NATURAL GAS INSTALLATION NOTES

- ALL GAS INSTALLATION WORK IS TO BE PERFORMED BY A LICENSED PLUMBING
- THIS CONTRACTOR WILL DO ALL FILING, SET UP AND COORDINATE THE TESTING AND INSPECTION WITH THE NY CITY BUILDING DEPARTMENT.
- THE INSTALLED GAS SYSTEM SHALL BE IN COMPLETE COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE.
- LABEL GAS PIPING WITH GAS NAME EVERY 10 FEET. . GAS PRESSURE DROP IN PIPING FROM METER TO EQUIPMENT SHALL NOT EXCEED 0.3 W.C.
- GAS METER INSTALLATION SHALL COMPLY WITH ALL RULES AND REGULATIONS OF NATIONAL GRID.
- ALL GAS METER PIPING, ETC. SHALL COMPLY WITH LOCAL LAW 30/82 AND R.S. 16 -P115 OF THE NY CITY BUILDING CODE AND ALL ITS SECTIONS SHALL APPLY IF APPLICABLE.
- THE GAS METER ROOM SHALL NOT BE USED IN ANYWAY FOR STORAGE IN COMPLIANCE WITH RS. 16-P115-6 (C) OF THE NYC BUILDING CODE.

NEW YORK CITY ENERGY COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 NYCECC.

LANDMARKS COMPLIANCE

ALL PLUMBING INSTALLED AS PART OF THIS APPLICATION SHALL BE INTERIOR WORK ONLY AND SHALL NOT INCLUDE ANY EXTERIOR WORK OR WORK WITHIN EXTERIOR WALLS.

SITE INFORMATION 53 WOOSTER STREET LOCK: 475 LOT: 17 67 WEST BROADWAY ZONING DISTRICT: M1-5B &loc4 ZONING MAP: 120 LOT 17 HEIGHT 36' 3 STORIES AREA OF WORK CONSTRUCTION TRIS CLASS 3 NON-FIREPROOF OCCUPANCY: RESIDENTIAL PROPERTY IS NOT IN A SFHA WOOSTER STREET PLOT PLAN

PLUMBING SYMBOLS AND ABBREVIATIONS

		NS PROVIDED FOR CONVENIENCE O
SYMBOLS	ABBREVIATIONS	DEFINITIONS
;G ∫	G	GAS PIPING
⊊_G	G	Existing gas piping
4 4		EXISTING PIPING 10 REMAIN
5#####		EXISTING PIPING TO BE REMOVED
ş ∓ ş		GAS SHUT-OFF VALVE
	UP	PIPING UP
c	DN	PIPING DOWN
•		CONNECT TO EXISTING
	GPM	GALLONS PER HOUR
	TMV	TEMPERING MIXING VALVE
	MGCV	MASTER GAS CONTROL VALVE
	CFH	CUBIC FEET PER HOUR

INSPECTION NOTES

- THE FOLLOWING IS THE LIST OF THE INSPECTIONS REQUIRED FOR
- CONTRACTOR IS RESPONSIBLE TO HIRE A QUALITY PROFESSIONAL TO PERFORM THESE INSPECTIONS.
- THE REQUIRED INSPECTIONS ARE AS FOLLOWS:
- FIRE-RESISTANCE RATED PENETRATIONS AND JOINTS COOE/SEC

ILY. NOT EVERY	DISCLAMER NOTE 1. THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SKETCHES, PLANS, STUDIES, DRAWINGS, SCHEDULES, AND SKECARCATIONS, AND CONTRIGHTS THEREIN, ARE AND SMULL RELAVAN THE SOLE AND EXCLUSIVE PROPERTY OF RLIP CONSTRUCTION CONSULTANTS, INC. THE DOCUMENTS AND THEIR CONTENTS MAY NOT BE LISED, PHOTOCOFILE, OR REPORTS MAY NOT BE LISED, PHOTOCOFILES WITH CONSENT OF RLIP CONSTRUCTION CONSULTANTS, INC. 2. THE CONTRACTOR SHALL CIECK AND VERD'S ALL CONDITIONS AND DIMENSIONS AND REPORT ANY FOR ANY PERSON, UALESS ACTING UNDER THE ENGINEER, TO ALTER THIS PLANEN ANY WAY. 4. THIS IN AVOID COMPLIES WITH THE 2010 EC.C. NYS LOCAL LAW 402010 & LOCAL LAW 12011 REVISIONS:
ILY. NOT EVERY	DRAWINGS, SCHEDULES, AND SFCERCATIONS, AND COMPRIGHTS THEREIN, ARE AND SMULT, IREUAN THE 90LE AND EXCLUSIVE PROPERTY OF RLIP 90LE AND EXCLUSIVE PROPERTY OF RLIP 00CLWENTS AND THEIR CONTENTS MY NOT BE LEED, PHOTOCOFIEL, OR RIPPODUCED DIGTALLY. ELECTRONICALLY, OR IN ANY OTHER MANNER WITHOUT THE COMPEND THE CAMBEN CONSTRUCTION CONSULTANTS, INC. 2. THE CONTRACT DRS HULL CIECK AND VERITY ALL CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITED FRIGHT OF START OF WORK. 3. TI 63 AVOLATION OF IN'S BUDCATION DEPT, LAW FOR ANY PERSON, UNLESS ACTING UNDER THE EINCERTORY CLORENCE. 3. TI 63 AVOLATION OF IN'S BUDCATION DEPT, LAW FOR ANY PERSON, UNLESS ACTING UNDER THE EINCENTORY OF ALCENTED THE AND CLORENCE. NATURE, TO ALCENTE AND ANY MAY. 4. THIS LAYOUT COMPUES WITH THE 2018 EC.C.C. NYS LOCAL LAW 48/2018 & LOCAL LAW 1/2011
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	NYS LOCAL LAW 48/2010 & LOCAL LAW 1/2011
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	LANDLORD'S / OWNER'S INFORMATION:
	NEW YORK CITY EXPEDITOR:
	R.I.P. C.C. INC. 325 BROADWAY SUITE 304
	NEW YORK, NY 10007 TEL: 212-334-7400
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	NEW YORK, NY 10007
	212-334-4114 CONSULTING ENGINEERS
	GUTH-DECONZO CONSULTING ENGINEERS
	242 30TH STREET, SUITE 301 NEW YORK, NY 10001 212-967-4306
	PROJECT ADDRESS
	HEAT ME
	53 WOOSTER STREET
	NEW YORK, NEW YORK
	PLUMBING SYMBOLS & NOTES
	SEAL: DATE: 03-23-20
#M0035073-11	PROJECT#
	4264-G04
NYC DOB STAMPS & SIGNATURES	FAA
NYC DOB STAMPS & SIGNATURES	WAT SCALE
NYC DOB STAMPS & SIGNATURES	
NYC DOB STAMPS & SIGNATURES	
NYC DOB STAMPS & SIGNATURES	
NYC DOB STAMPS & SIGNATURES	NYC DOB BSCAN
NYC DOB STAMPS & SIGNATURES	DRAWING NUMBER
IATTERS SHOWN ICABLE CODES.	NYC DOB BSCAN

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 DIFICULTES. SUBMISSION OF A PROPOSAL WIL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LAGOR. EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF OFFICILITES ENCOUNTRERD, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- D. BASE ALL LABDR 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 PIRING BEINING FINISHED SURFACES. LEAVE ALL PLUGGED ENDS OF DRAINS AND VENTS LESS THAN 2 FEET LONG TO AVIOID 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, SUPPLES, VALVES, HANGERS AND SUPPORTS, INSULATION, ETC. AND ALL OTHER TIEMS NECESSARY FOR COMPLETE, SATISFACTORY OPERATING AND APROVED TYPE SYSTEM.
- H. ALL PIPE FITTINGS, VALVING, FIXTURES, HANGERS, SUPPORTS, INSULATION, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE.
- 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. AFIX INDICATION OF THIS COORDINATION TO EACH SHOP DRAWING SUBMITTEO 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
 - GAS PIPING: BLACK STEEL PIPE, SCHEDULE 40, SEAMLESS IN ACCORDANCE WITH ASTM A-120 WITH THREADED PLAIN MALLEABLE IRON STEAM PATTERN FITTINGS.

7. VALVES

- GAS CONTROL VALVES, ROCKWELL-NOROSTROM TYPE PV-1, THREADED SEMI-STEEL LUBRICATED PLUG COCK.
 8. VALVE TAGS AND CHART
- O, VALVE TAGS AND CHART
- A. EACH VALVE, EXCEPT VALVES AT FIXTURUS, SHALL HAVE A 2 INCH DUANETER BRASS TAG WITH 1 INCH HIGH NUMERAL 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 DISTURG ANY EXISTING STRUCTURE PIPING. APPARATUS. OR OTHER WORK. WHERE CUITING, DRILLING, OR REMOVALS ARE REQUIRED IN EXISTING WALL, FLOOR OR ROOF CONSTRUCTION. PERFORM THE WORK IN A MANNER THAT WILL SAFEGUARD AND NOT ENDANCER THE STRUCTURE. PRIOR TO ANY CUITING, ORILING OR REMOVALS, INVESTIGATE BOTH SIDES OF THE SURFACE INVOLVED AND DETERMINE THE EXACT LOCATION OF ADJACENT STRUCTURAL MEMBERS BY YSUAL EXAMINATION. ALL CUITING 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 PENEIRATIONS THROUGH THE EXISTING STRUCTURE. DO NOT JACK HAMMER OR USE ANY OTHER CHOPPING METHODS EXCEPT WHERE AND WHEN SPECIFICALLY APPROVED BY THE ARCHITECT.

11. SLEEVES

- A. PROVIDE SLEEVE FOR ALL PIPING PENETRATIONS THROUGH WALLS AND POURED FLODRS.
- B. SLEEVING 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:
 - FLOORS: OAKUM HEMP OR LEAD OR AS SPECIFIED FOR FIRE RATED SHAFT WALLS BELOW.
 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 STRUPS ARE NOT ACCEPTABLE. ATTACH TO BUILDING STRUCTURE WITH BEAM CLAMPS, SHOT OR POURD 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 ANO 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 HORIZONIAL SCHEWED PIPING SHALL BE SUPPORTED BY HANCERS SPACED NOT OVER TEN (10) FEET APART. ALL BRANCHES SHALL HAVE SEPARATE HANGERS, HANGERS SHALL BE CLEVE STYPE, CONSTRUCTED OF HEAVER BAR STEEL STOCK, WITH PROPER SIZE SUSPENSION ROD AND LOCKNUTS, WHERE PIPING IS SUPPORTED FROM THE FLOOR, PROVIDE ADJUSTABLE PIPE SADOLE SUPPORT WITH U-BOLT.
- D. WHERE PIPES ARE TO BE INSULATED, THE MANGERS SHALL BE OF AMPLE SIZE TO PROVIDE FOR THE COVERING SPECIFIED AND BE PROVIDED WITH GALVANIZED STEEL INSULATION SHIELDS.
- E. ALL HANGERS, RODS, BEAM CLAMPS, ETC. SHALL BE SHOP ZINC COATED.
- E. 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. 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 SHELDS 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 WATTEN 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 VALVING 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, VALVIDE, ETC. EXCEPT AS OTHERWISE SPECIFIED AND WAKE 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, OVERTOW AND ORANI ASSEMBLES, VACUUM BREAKERS EXCEPT AS HERRIN SPECIFIED, COFFEE STATION WATER FLITERS, 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 PULMBING FIXTURES FROM WALLS OR FLOORS, DISCONNECTING PING AT STACKS OR RISERS AND CAPPING TO AVOID DEAD ENDS, RECONNECTING ALL SYSTEMS AS REQUIRED TO ASSURE CONTINUTY IN CIRCULATING AND SUPPLY LINES AND RWISING ALL PLUMBING LINES WHERE REQUIRED TO CLEAR NEW HUNG CELING 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 UST OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF CONCOLLED EQUIPMENT, VALVES, CONTROLS, AND OTHER SMILLAR 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 EDUIPMENT, VALVES, DAMPERS, ETC., WHICH REQUIRE ACCESS DOOR PROVISIONS.

17. GUARANTEE

- A. THIS CONTRACTOR SHALL GUARNATTEE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNERS, ALL MATERNAS, APPARATUS AND WORKMANSHIP WHETHER FURNISHED BY HIMSELF OR BY HIS SUBJOATTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, SUBCONTRACTORS, MITHOUT COST TO THE GWNER, ANY PARTS OR FAMEWIS OF THE WORK WHICH MAY PROVE OEFECTIVE OR UNSATSFACTORY WITHIN THE PERIOD OF THE GUARANTEE.
- B. WHERE SPECIAL GUARANTEES COVERING INSTALLATION, OPERATION OR PERFORMANCE OF MAY SYSTEMS OR APPLANCES FURNISHED UNDER THIS CONTRACTOR ARE REDURED, THE FULL RESPONSIBILITY FOR THE FULLILLENT OF SUCH GUARANTEES MUST ASSUMED BY THE CONTRACTOR WIG SHALL OBTAIN WRITTEN GUARANTEES IN TRPLICATE, WHICH SHALL BE FILED WITH THE ARCHIECT BEFORE FINAL ACCEPTANCE.
- C. CONTRACTOR WILL BE RINFPONSIBLE FOR ALL LEAKS IN ALL PIPES FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION OF WORK UNDER THIS CONTRACT. CONTRACTOR SHALL REPART AT NO COST TO THE OWNER, ALL SUCH LEAK WHICH OCCUR ATTER COMPLETION OF THIS CONTRACTOR LEAKS WHICH OCCUR PRIOR TO THE CONSTRUCTION OF THIS CONTRACT SHALL BE REPARED AT ONCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY SUCH LEAKS AND THE REPARED AT ONCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY SUCH LEAKS AND THE REPARED AT ONCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY SUCH LEAKS AND THE REPARED AT ONCE.
- 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 ENDIRERY'S REVIEW AND APPROVAL.

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NOTES TO USERS

This map is for use in administering the Netional Flood Insurance Program. It does not necessarily identify all areas subject to flooring, periodatry from local drainage accurates of avail size. The community map repository should be consulted for possible updeted or additional flood hezard information.

To obtain more detailed information in mease where lass Flood Linvit (ones (IPE)) and/or flood-ways laive ben detailed, users are accounted to consult the Flood Proteins and Pancinety Data and/or Summary of Statust Elevations the Flood Proteins and Pancinety Data and/or Summary of Statust Elevations this FIRM, Users should be avance the BPEs atoxin on the FIRM impresent involved whole-proteined proteins affect on the and is strained for frond Insurence minip purposes only and should not be used is the acid preserved in the FIS

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Boundaries of the Readway's were computed at tross eactors and learn between cross sections. The Readways were based on hydrautic consider with regard to sequitements of the Hational Flood resure Program. Pro-vidits and other perfinent Readway data are provided in the Flood Insu

Centrain arreas not in Special Rood Hazard Arreas may be protected by floor control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood (restance: Study report for Information on those Structures for the Flood (max

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NGS Information Services NOAA, N/NGS12 National Geodetic SSMC-3, #9202 1315 East.West H Silver Spring, Mar (301) 713-3242

To obtain current elevation marks shown on this m of the National Geodel http://www.rccs.rcea.cov. X, and/or location information for bench contact the information Services Branch (301) 713-3342, or visit its website at (301) 713-3342.

Base map information shown on this FIRM was provided in digital tomas by t at a scale

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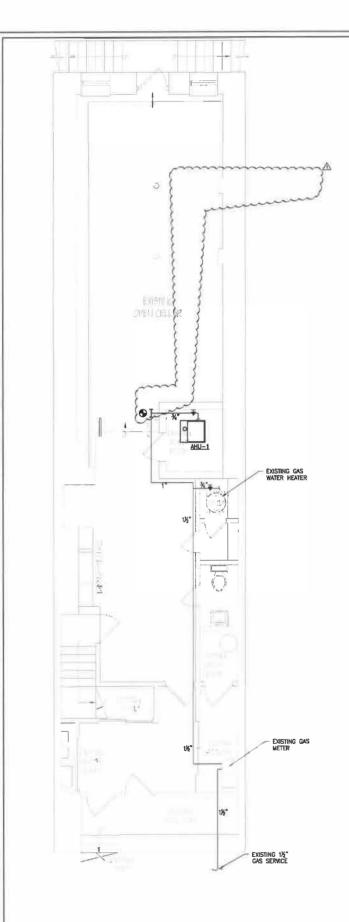
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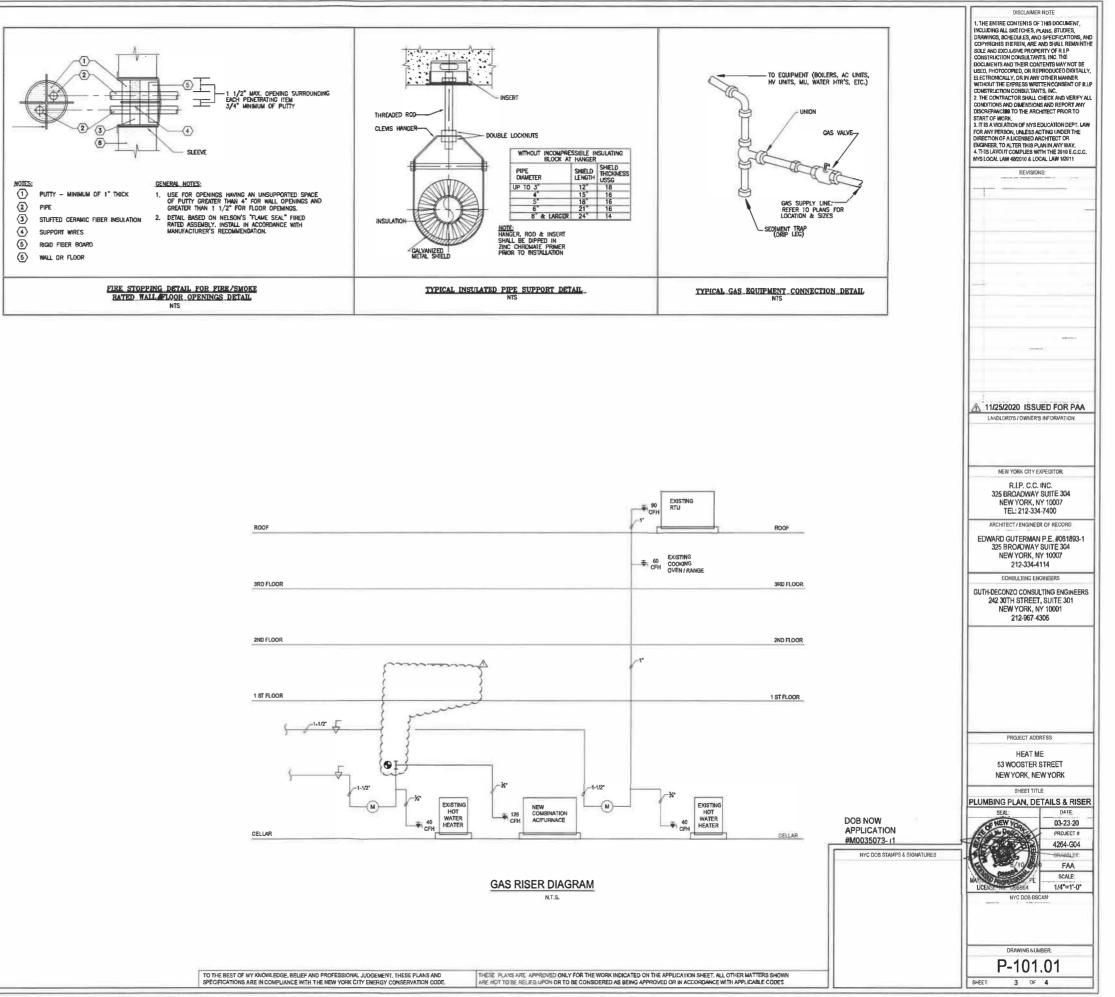
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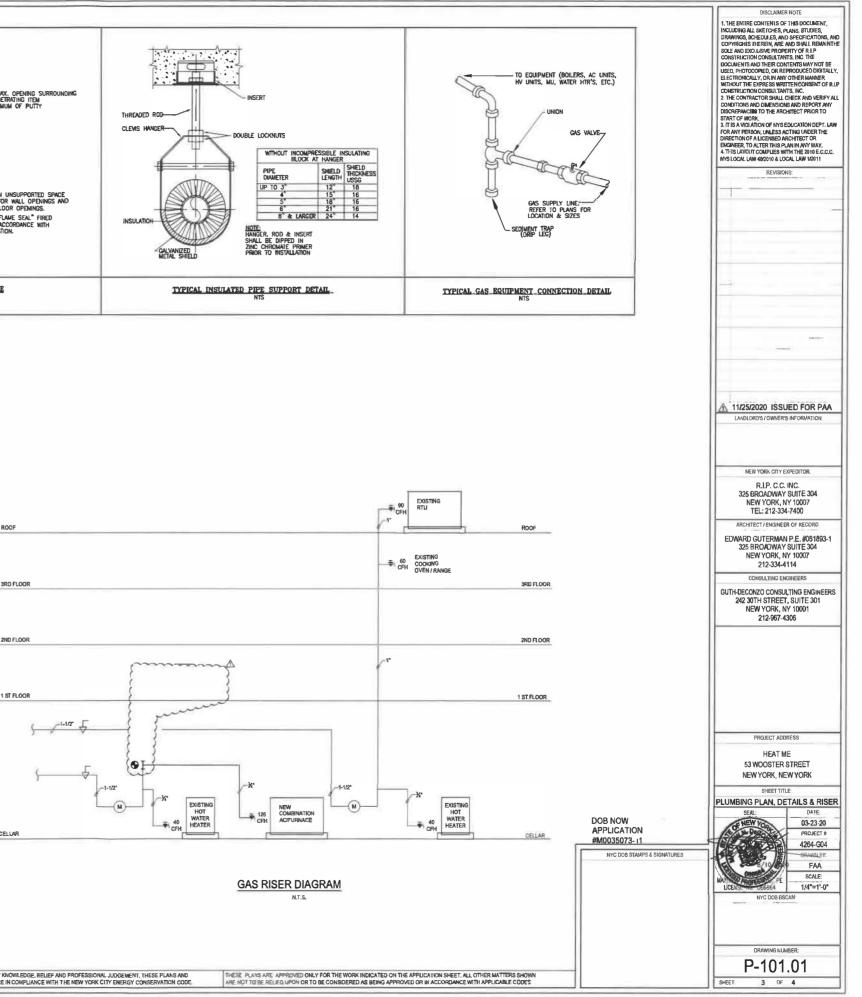


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