

ADD FOR VALVES AND FITTINGS (10%) UNIFORM PLUN UNIFORM PLUMBING

9.6'

## 3 NATURAL GAS RISER DIAGRAM SCALE: NOT TO SCALE

## ADHERE TO APPLICABLE LOCAL CODES AND REGULATIONS, TO THE CITY CODES. GUARANTEE LABOR AND MATERIALS FOR ONE YEAR. DRAWINGS ARE DIAGRAMMATIC; CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, ADVISE OF MAJOR DISCREPANCIES. A DOMESTIC COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES. A SANITARY SOIL WASTE AND VENT SYSTEM TO SERVE ALL FIXTURES. SCOPE Qo SPECIFIC ATION RODDING SEWERS CLEANING, TESTING AND ADJUSTING ALL SANITARY SOIL AND STORM S BE RODDED OUT AND FLUSHED C FINISH FLOOR BEING INSTALLED. , SUBSTANTIAL COMPLETION. ALL FL INCLUDED IN THIS WORK THIS CONTRACTOR SHALL FURNIS REQUIRED IN THE PERFORMANCE ADJUSTMENTS TO OPERATION OF I SEWER LINES, BOTH IN THE BUILDING AND OUT SHALL OUT AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO DELL WORK MUST BE COMPLETED PRIOR TO FLOOR DRAIN AND CLEANOUT LOCATIONS MUST BE 3H ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION OF ALL TESTS. CLEANING AND MAKING NECESSARY ALL FIXTURES AND EQUIPMENT.

**PLUMBING** 

CONTRACTOR SHALL OBTAIN REQUIRED

PERMITS

AND

NG INSULATION

VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, EQUIVALENT APPROVED BY THE ENGINEER.

STOCKHAM, WATTS OR

ALL HOT WATER AND HOT WATER RETURN PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1" WALL THICKNESS IMCOLOCK PIPE INSULATION, HAVING A CONDUCTIVITY NOT EXCEEDING 0.28 BTU PER inch/h X ft² X °F.

ALL COLD WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1" WALL THICKNESS IMCOLOCK PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLON SEAT AND SEAL AND THRUST WASHERS. VALVES 2" AND SMALLER SHALL BE NIBCO T-585-70-66 OR APPROVED EQUIVALENT.

SNOI

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN

IMCOLOCK PIPE INSULATION MAY BE SLIPPED ONTO THE PIPE PRIOR TO CONNECTION OR APPLIED AFTER THE PIPE IS INSTALLED, AT THE CONTRACTOR'S OPTION. ALL BUTT JOINTS AND MITER JOINTS SHALL BE CLOSED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE. IMCOLOCK PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER. FITTING COVER INSULATION SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF IMCOLOCK PIPE INSULATED THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEEVED FITTING COVERS ABRICATED FROM MITER CUT PIECES OF IMCOLOCK PIPE INSULATION ACCORDING TO THE WANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF IMCOLOCK PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT

STORAGE 105

SHOULD ROCK BE ENCOUNTERED, EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL.

CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE.

EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH.

LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

INSTALL THERMAL INSULATION ON INSPECTION IS COMPLETED. INSTA CLEAN, DRY SURFACES AFTER ALL TESTING AND LATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

NG SLEEVES

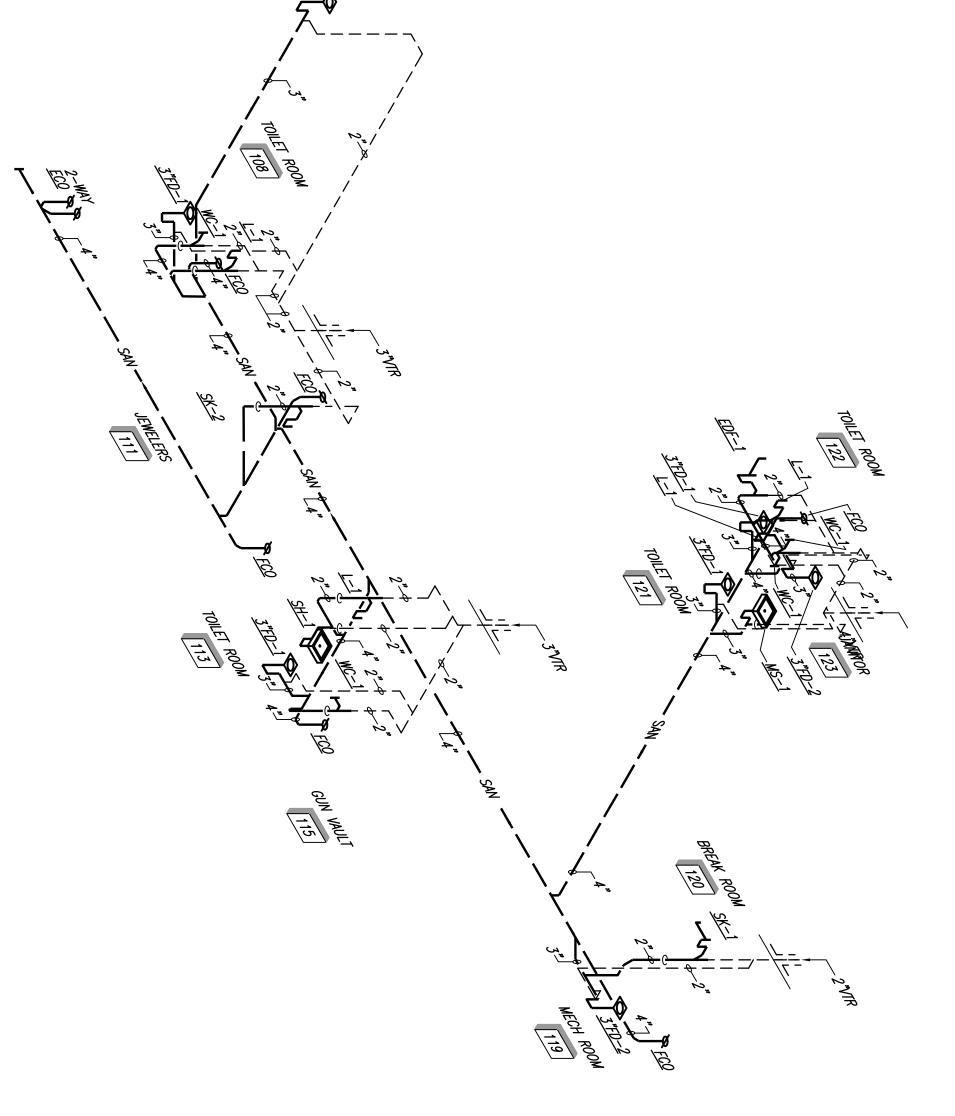
ALL COPPER PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE CORROSIVE MATERIAL. MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.025 TO 0.0059 INCH. PROVIDE PLUMBING SPECIFIED. SOHL OL

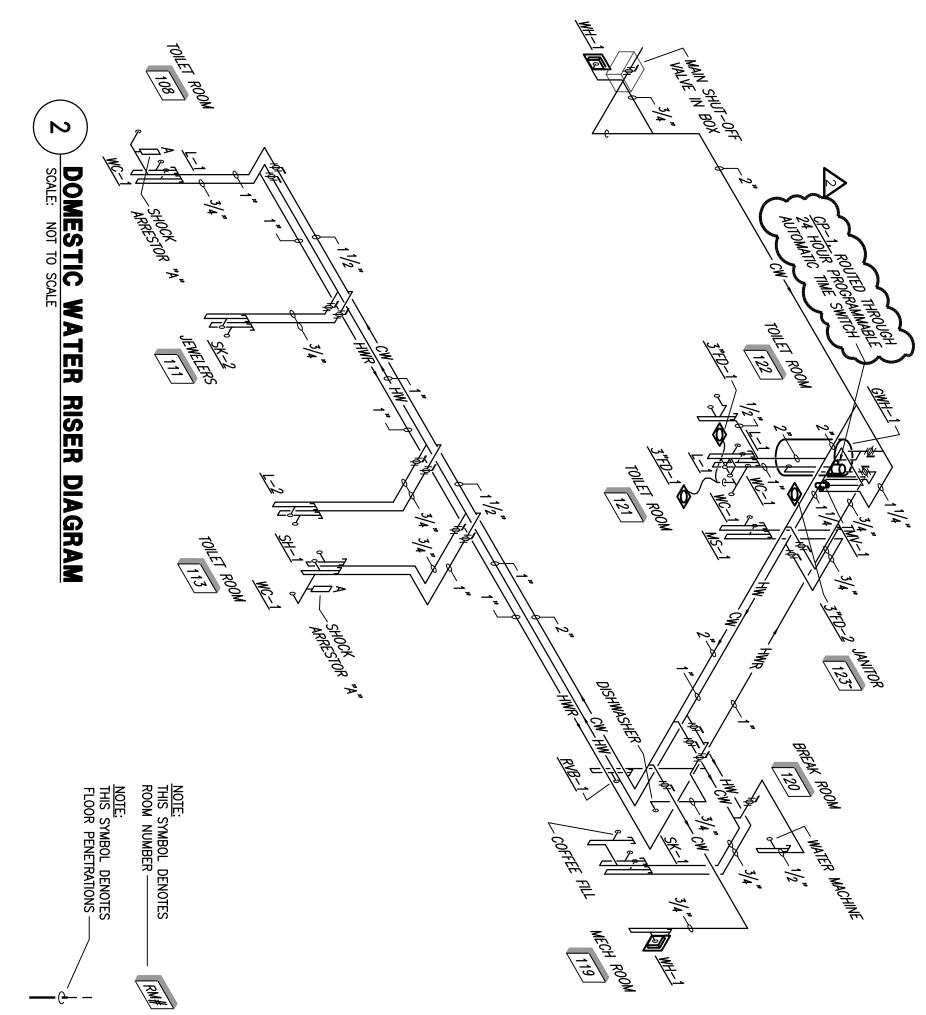
MBING PIPING HANGERS

PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRIABLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS.

SUPPORT PIPING TO MAINTAIN LINE AND GRADE, WITH PROVISION FOR EXPANSION AND CONTRACTION. USE APPROVED CLEVIS—TYPE OR TRAPEZE—TYPE HANGERS CONNECTED TO STRUCTURAL MEMBERS OF THE BUILDING. SINGLE PIPE RUNS TO BE SUPPORTED BY APPROVED CLEVIS TYPE HANGERS. MULTIPLE PIPE RUNS TO BE SUPPORTED BY APPROVED TRAPEZE TYPE HANGERS. DO NOT SUPPORT PIPING FROM OTHER PIPING OR STRUCTURAL JOIST BRIDGING. REVIEW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. WHERE INSULATION OCCURS, DESIGN HANGERS TO PROTECT INSULATION FROM DAMAGE. MAXIMUM SPACING SHALL BE 10 FOOT.







SANITARY AND VENT

RISER DIAGRAM

PLUMBING RISER DIAGRAM

DRAWN BY

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1102100

CHECKED BY

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