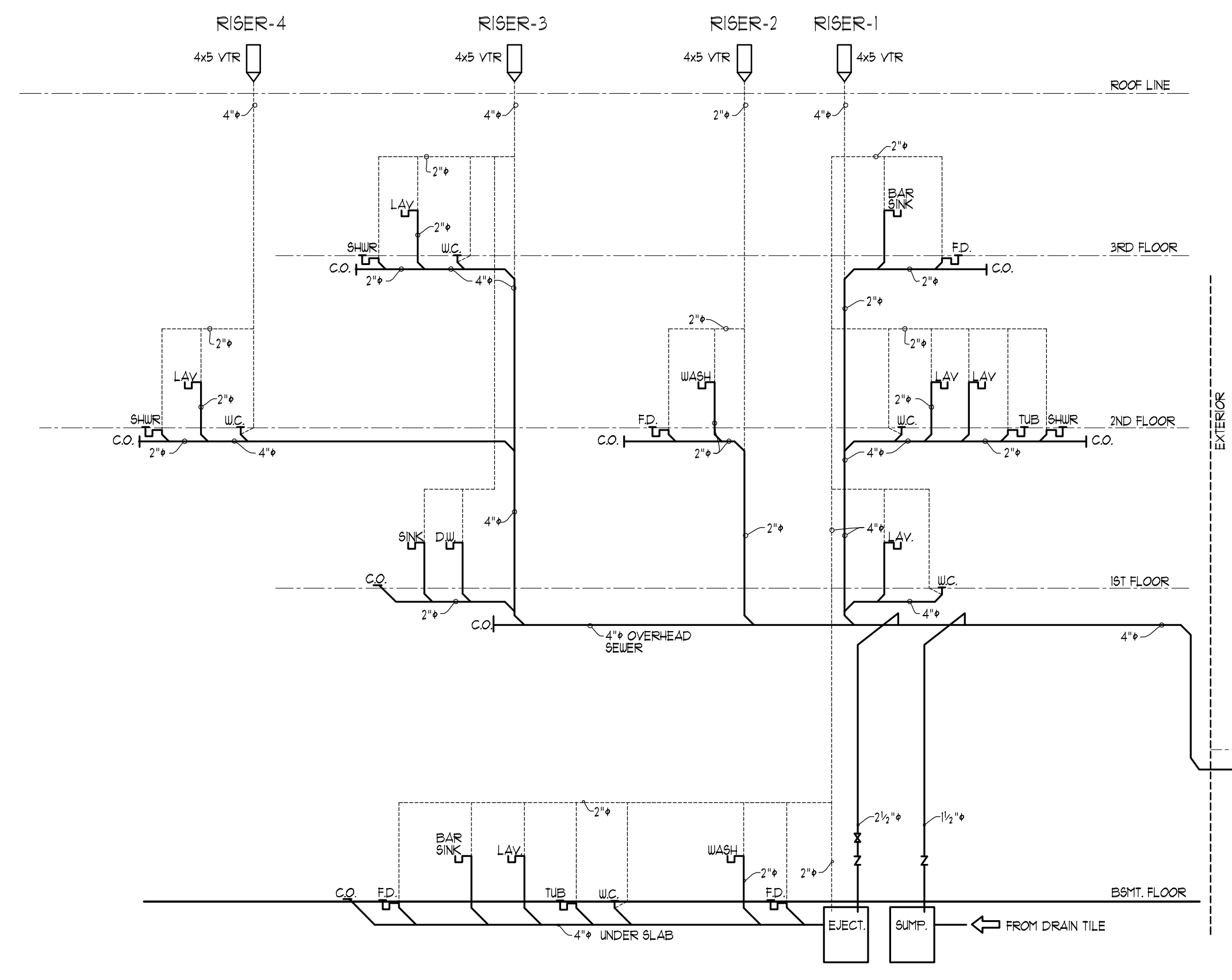
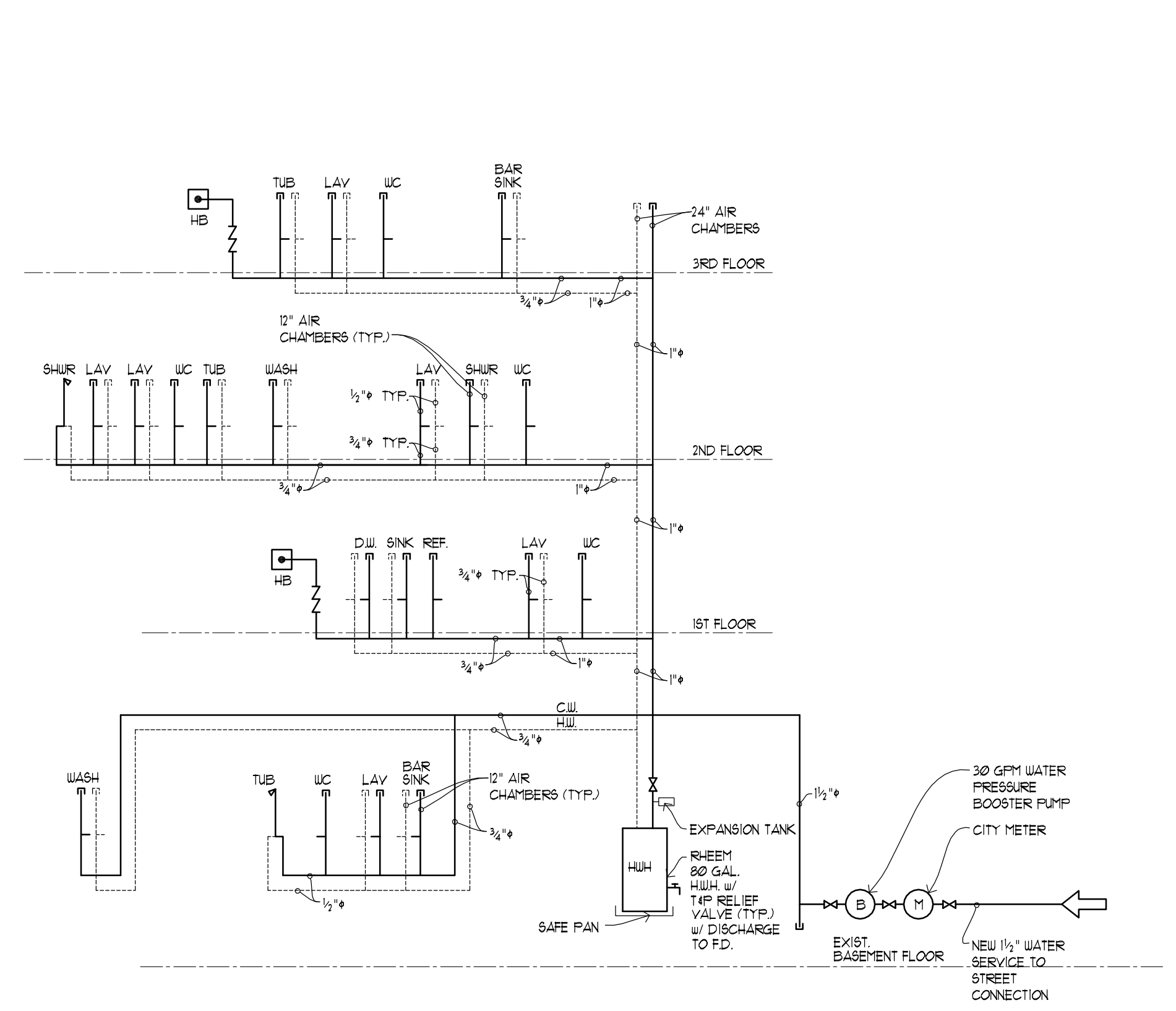


PLUMBING NOTES

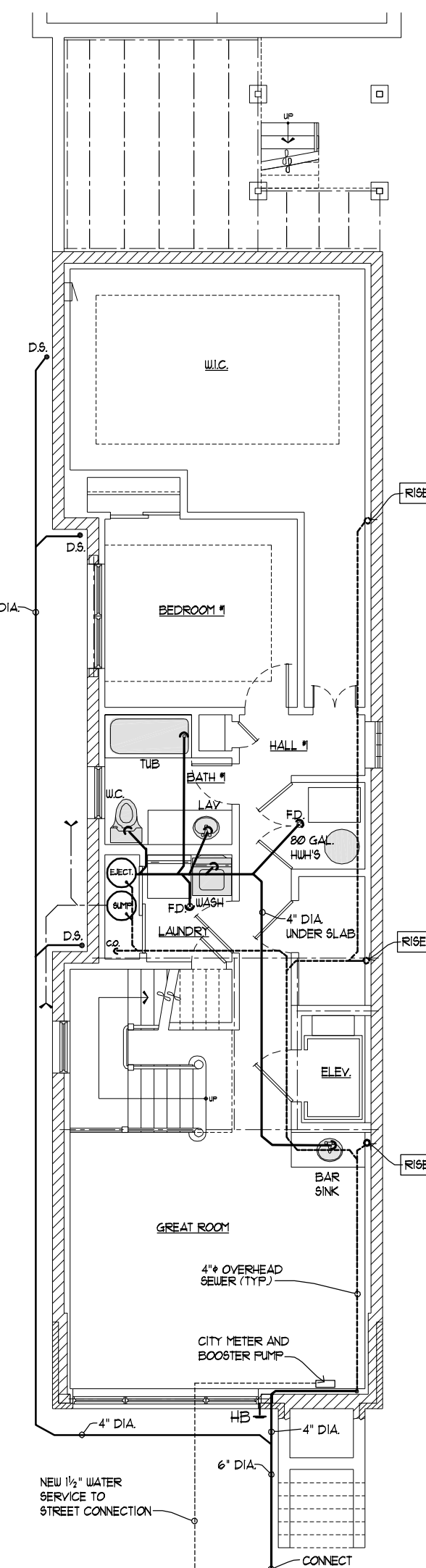
- THE PLUMBING CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR FOR A COMPLETE AND SAFE OPERATING PLUMBING SYSTEM, INCLUDING BUT NOT LIMITED TO HOT AND COLD WATER, WASTE, MECHANICAL, ETC. THE CONTRACTOR SHALL CONNECT THE RESULTS TO THE MAIN SERVICE.
- PLUMBING CONTRACTOR SHALL BE LICENSED IN THE STATE THAT THE WORK IS BEING PERFORMED AND SUBMIT UPON REQUEST ANY REQUIRED BONDS, COPIES OF THE STATE AND/OR LOCAL LICENSE AS MAY BE REQUIRED.
- THE PLUMBING CONTRACTOR SHALL PAY FOR AND OBTAIN ANY PERMITS PERTAINING TO THE PLUMBING AND/OR SEWER WORK UNLESS OTHERWISE ARRANGED, PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AS SHOWN ON THE PRINTS SPECIFICATIONS OR AT THE SITE CONDITIONS, ELEVATIONS, ETC. PRIOR TO SUBMITTING HIS BID AND/OR STARTING WORK.
- CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE OF ALL WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR. CONTRACTOR SHALL ALSO ASSEMBLE A COMPLETE PACKAGE OF OWNER'S MANUALS, INSTALLATION INSTRUCTIONS, ETC. INCLUDING COPIES OF ALL WARRANTIES AND SUBMIT THIS TO THE OWNER UPON COMPLETION AND ACCEPTANCE BY THE OWNER IN A PROPERLY DIVIDED THREE (3) RING BINDER.
- CONTRACTOR SHALL TEST ALL SYSTEMS AND MAKE ANY REQUIRED ADJUSTMENTS TO ASSURE A SAFE OPERATING SYSTEM.
- ALL MATERIALS SHALL BE FREE FROM DEFECTS AND CONFORMING TO THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND APPLICABLE CODES.
- STAMP EACH LENGTH OF PIPE, FITTING, TRAP, FIXTURE, AND DEVICE INDISTINGUISHABLY WITH ITS WEIGHT OR QUALITY AND THE MANUFACTURER'S NAME OR MARK.
- CAST IRON SOIL PIPE AND FITTINGS - ASTM A74-29 FOR ALL SOIL AND WASTE LINE FOR VENT AND SOIL STACKS ABOVE 2-10 IN. SIZE USE CAST IRON SOIL PIPE. ALL CAST IRON PIPE AND FITTINGS SHALL BE HEAVY CONSTRUCTION WITH BLACK ZEPHYRUS FINISH COAT. ALL CAST IRON PIPE BY ONE MANUFACTURER ONLY.
- COPPER TUBING - ASTM B88-61 TYPE "K" FOR WATER SUPPLY NOT SET IN OR UNDER CONCRETE AND TYPE "K" FOR PIPE SET IN OR UNDER CONCRETE. FITTINGS OF BRASS OR COPPER SHALL BE 20% ANTI-LEAD FOR UNDERGROUND AND ENCLOSED PIPING WITH FLARED FITTINGS AND JOINTS AT ACCESSIBLE LOCATIONS.
- FOR ALL VENT PIPING THROUGH 2-1/2 IN. SIZE USE GALVANIZED IRON PIPE CONFORMING TO ASTM A-150-61 WITH BANDAID MALLEABLE IRON FITTINGS.
- USE STANDARD WEIGHT BLACK STEEL PIPE AND FITTINGS ASTM D40-41 FOR GAS LINES. USE MALLEABLE FITTINGS.
- USE FITTINGS OF THE SAME MATERIAL AND FINISH AS THE PIPE IN WHICH THEY ARE INSTALLED.
- INSTALL DIELECTRIC UNIONS WHERE DISSIMILAR PIPING MATERIALS CONNECT.
- INSTALL AIR CHAMBERS IN WATER PIPES TO PREVENT WATER HAMMER. ADJUST FURN VALVES FOR MINIMUM NOISE.
- PROVIDE AND LOCATE SHUTOFF VALVES FOR EACH FIXTURE OF THE PLUMBING SYSTEM WITH FULL SECTION VALVES TO GIVE COMPLETE REGULATION AND CONTROL OF THE WATER IN THE PIPES. THE VALVES BY CRANE NIBCO-SCOTT CO. JENKINS OR WILKINSON OF PROTECTIVE THREADED OR SHUTOFF CONNECTIONS OR BAY NOT LESS THAN 25 PSI. LOCATE ALL VALVES TO BE EASILY ACCESSIBLE IN CABINETS UNDER FIXTURES OR BEHIND NEARBY RINGED, LOCKING TYPE ACCESS PANELS WHERE NECESSARY.
- FIT ALL WORK INTO THE AVAILABLE SPACE. MEET THE REQUIREMENTS AND COORDINATE WITH OTHER TRADES AS NOT TO CREATE ADVERSE CONDITIONS AND FOLLOW THE STRUCTURAL ELEVATIONS OF THE BUILDING AS CLOSE AS POSSIBLE. SOIL PIPE CONCEALED THROUGHOUT THE FINISHED PORTIONS OF THE BUILDINGS. COMPLETELY TEST THROUGH WORK BEFORE ANY FINISH WORK IS INSTALLED. CENTER FIRE OUTLETS ON THE DRILLING, TAPPING OR OTHER CONNECTIONS.
- INSTALL PIPE HANGERS 4 IN. O.D. OR AS REQUIRED AND COMPATIBLE WITH THE MATERIALS BEING USED.
- INSTALL HORIZONTAL SOIL AND WATER LINES INSIDE THE BUILDING WITH A UNIFORM PITCH OF 1/4 IN. TO THE FOOT UNLESS NOTED OTHERWISE. JOINTS OR WELDS NO LESS THAN 18 IN. FROM THE FOOT FOR 1/2 IN. PIPE. AT CAST IRON JOINTS SET THE SPOUT POINT AGAINST THE BOTTOM OF THE HUB. WELDED JOINTS, JOINT ONE THIRD RISE OF PURE OXGEN. FILL THE OTHER TWO THIRDS OF THE JOINT WITH PURE SOFT LEAD IN ONE POURING AND PROPERLY CALK.
- LAY WATER LINES TO DRAIN FREE FROM SAGS OF TRAPS AND PROVIDE DRAIN COCKS AT LOW POINTS.
- INSTALL HORIZONTAL VENT LINES WITH MAXIMUM POSSIBLE PITCH BACK TO OUTSIDE. FIT ALL VENTS TOGETHER WHERE POSSIBLE BEFORE EXTENDING THROUGH ROOF.
- LOCATE UNIONS AND VALVES TO BE COMPLETELY ACCESSIBLE AFTER THE SYSTEM IS COMPLETE.
- FURNISH AND INSTALL CLEANOUTS AS INDICATED AND PER CODE AND/OR OWNER REQUIREMENTS. AT ALL CHANGES IN DIRECTION OF SOIL AND WASTE PIPES. MAKE ALL CLEANOUTS ACCESSIBLE. SET FLOOR CLEANOUTS FLUSH WITH THE FINISHED FLOOR SURFACE.
- INSULATE ALL COLD WATER PIPING ABOVE AND CEILING EXCEPT EXPOSED BRASS OR COPPER PLATED PIPING IN THE TOILET RESTROOMS WITH AN APPROVED NON-COMBUSTIBLE 1/2" RATED INSULATION WITH VAPOR BARRIER. APPLY INSULATION AFTER PIPING HAS BEEN INSTALLED, TESTED, AND OR APPROVED AND PIPES ARE DRY AND CLEAN.
- IF APPLICABLE PROVIDE AND INSTALL A WATER METER AS SHOWN ON THE DRAWINGS.
- INSTALL A BACK WATER CHECK VALVE IF REQUIRED BY LOCAL CODE, SHOWN ON THE DRAWINGS.
- INSTALL AN APPROVED GREASE TRAP IF SO DIRECTED ON THE PRINTS IN THE SPECIFICATION OR AS REQUIRED BY LOCAL CODE.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OF THE EXISTING AND/OR NEW FLOOR AS REQUIRED FOR INSTALLATION OF THE PLUMBING SYSTEM. WHEN CUTTING ANY TRENCH THE CONTRACTOR SHALL MAINTAIN A TRUE AND LEVEL FLOOR FINISH EQUAL TO THE EXISTING.
- UNIONS 1 1/2 IN. AND SMALLER: GALVANIZED MALLEABLE IRON CORRODED WITH BRASS TO IRON RATIO 50% BRASS AND 50% IRON. BRONZE BODY, SOLID BRASS DISC, RISING STEEL SCREW, NIBCO-SCOTT BONNET, SOLDERED TYPE VALVES ARE NIBCO-SCOTT 5-114.
- GLOBE VALVES 1/2 IN. AND SMALLER: NIBCO-SCOTT CO. T-211-1/2. BRONZE BODY, SOLID BRASS INTERNAL SEAT, BRASS DISC, RISING STEEL SCREW, NIBCO-SCOTT BONNET, SOLDERED TYPE VALVES USE NIBCO-SCOTT 5-211-1/2.
- CHECK VALVES: NIBCO-SCOTT 5-143-1/2 AND T-43-1/2.
- NIPPLES: SCHEDULE 80.
- HOSE BIBBS: TURN 2-195-3. NON FREEZE EXPOSED WALL HYDRANT 3/4 IN. WITH VACUUM BREAKER. ADVANCE INSTRUCTIONAL VALVE OPERATING ROD AND FREE-FLOATING COMPRESSION-CLOSURE VALVE.
- AIR CHAMBERS: 1-114 IN. X 24 IN. PIPE EXTENSION AS INDICATED.
- FLOOR DRAINS INDICATED IN TOILET ROOMS. USE THE TURN TYPE A 6 IN. DIAMETER POUD STRAINER.
- CLEANOUTS:
 - IN THE FINISHED FLOORS: TURN 2-1374-1 WITH NICKEL-BRONZE NON-SLIP, SCORATED TOP SET FLUSH WITH FLOOR.
 - IN UNFINISHED WALLS OR ACCESSIBLE CEILING SPACES: TURN 2-137-0 OR 2-137-1 WITH LINES OR TURN RED BRASS PLUGS IN IPS LINES.
- PLUMBING MATERIALS, DEVICES, FIXTURES, EQUIPMENTS, APPENDICES, AND/OR ACCESSORIES SHALL BE LISTED AND/OR CATALOGED BY AN ACCESSIBLE LISTING AGENCY.
- ALIGNMENT OF FIXTURES, FITTINGS, VALVES, ETC. SHALL BE INSTALLED IN THE CORRECT RELATIONSHIP ASSOCIATED WITH THE DIRECTION OF FLOW.
- EXTERIOR OPENINGS AROUND PIPING AND/OR EQUIPMENT SHALL BE PROPERLY SEALED AS TO RESIST THE ENTRANCE OF VERMIN OR MOISTURE.
- PIPING AND ELECTRICAL WIRING SHALL NOT PASS THROUGH THE SAME HOLES IN WALLS, FLOORS, ROOFS, STRUCTURAL MEMBERS, OR CEILING. IF SUCH IS NECESSARY, THE HOLES SHALL BE PROPERLY SEALED BY CUTTING OR NOTCHING AND CEMENTING WITH AN APPROVED MORTAR OR CONCRETE. THE SEALING SHALL BE IN AN ACCESSIBLE MANNER AS TO GUARANTEE THE STRUCTURAL INTEGRITY OF THE MEMBER.
- TRAPS AND CLEANOUTS:
 - TRAPS SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THEIR VENTS BUT NOT WITHIN PIPE DIAPHRAGMS.
 - TRAPS SHALL HAVE REMOVABLE U-BENDS. CONTINUOUS WASTE AND TAIL PIECES WHICH ARE PERMANENTLY ATTACHED TO THE U-BEND SHALL BE REMOVABLE WITHOUT REMOVING THE STRAINER.
 - CONCEALED TRAPS WITHOUT MECHANICAL JOINTS SHALL BE ACCESSIBLE FOR REPAIR AND INSPECTION. ACCESS PANELS FOR THE PURPOSE OF INSPECTION OR REPAIR SHOULD BE USED AS REQUIRED.
 - PIPING BETWEEN THE P-TRAP AND THE FIXTURE TEE SHALL MAINTAIN A MINIMUM OF 1/4 IN. PER FOOT SLOPE. A MAXIMUM CHANGE OF DIRECTION SHALL NOT EXCEED 180 DEGREES.
 - CLEANOUTS SHALL BE INSTALLED WHERE CLEANING TOOLS WILL NOT BE REQUIRED TO PASS THROUGH THEM. THE MAXIMUM DEGREE OF FITTINGS TO REACH ANY PART OF THE PLUMBING SYSTEM.
 - CLEANOUTS SHALL BE POSITIONED SO THERE IS AT LEAST 2 IN. OF UNOBSTRUCTED CLEARANCE IN FRONT OF THE OPENING.
 - CONTINUOUS WASTE SHALL NOT EXCEED 30 IN. IN HORIZONTAL AND 24 IN. IN VERTICAL MEASUREMENTS FROM STRAINERS TO THE "V" BEND.
 - FIXTURE TAILPIECES, CONTINUOUS WASTE OR OVERFLOWS WILL NOT BE SUPPORTED UNLESS THEY ARE PERMANENTLY ATTACHED TO AN OVERFLOWS HAVING AT LEAST 1/4" DIAMETER DRIVING WHICH MAY BE 1/2 IN.
 - OVER FLOWS SHALL BE SECURED USING CORROSION RESISTANT SCREWS OR BOLTS.
- HANGERS AND SUPPORTS:
 - PIPING SHALL BE INSTALLED WITHOUT LADLE STRESS OR STRAIN AND WITH PROVISIONS FOR EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT.
 - DRAIN AND WASTE PIPING SHALL BE SUPPORTED AT 4 FT. MAXIMUM INTERVALS AND AS REQUIRED. SEE DETAILS BELOW FOR TYPICAL HANGERS.
- VENTING:
 - VENTS SHALL RISE VERTICALLY OR WITHIN 45 DEGREES OF VERTICAL FROM THE WASTE TEE OR FROM AND ABOVE THE CENTER LINE OF THE HORIZONTAL DRAINAGE PIPING.
 - VENTS SHALL EXTEND THROUGH FLASHINGS NOT LESS THAN 2 IN. ABOVE THE ROOF AND SHALL BE PROTECTED WITH AN APPROVED COVER. VENTS SHALL NOT TERMINATE LESS THAN 3 FT. FROM ANY MOTOR DRIVEN AIR INTAKE DISCHARGING INTO ANY HABITABLE ROOM.



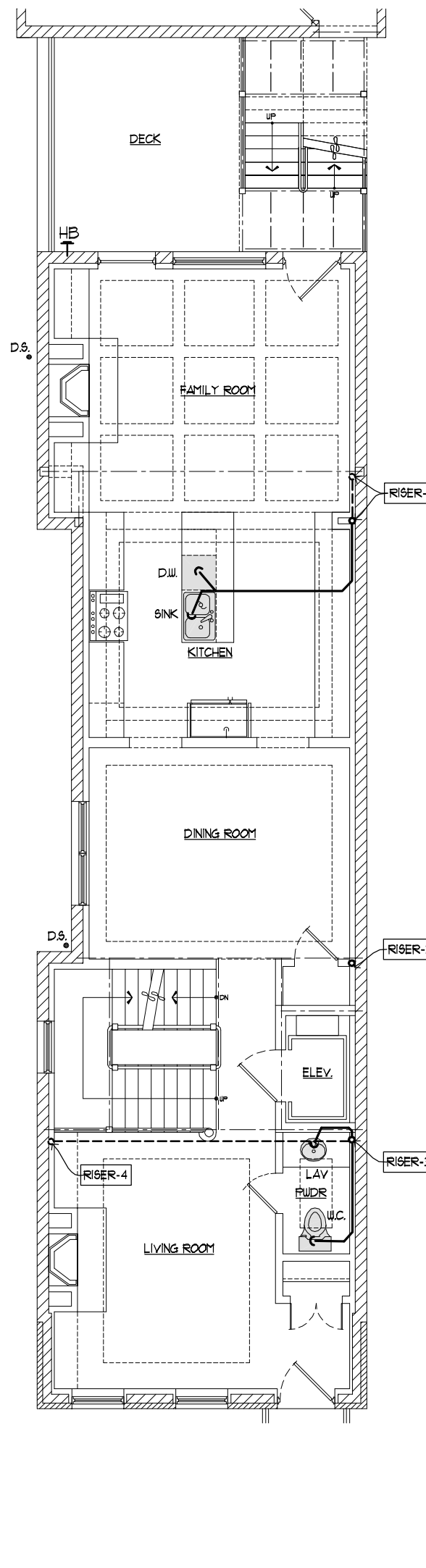
SANITARY WASTE DIAGRAM
N.T.S.



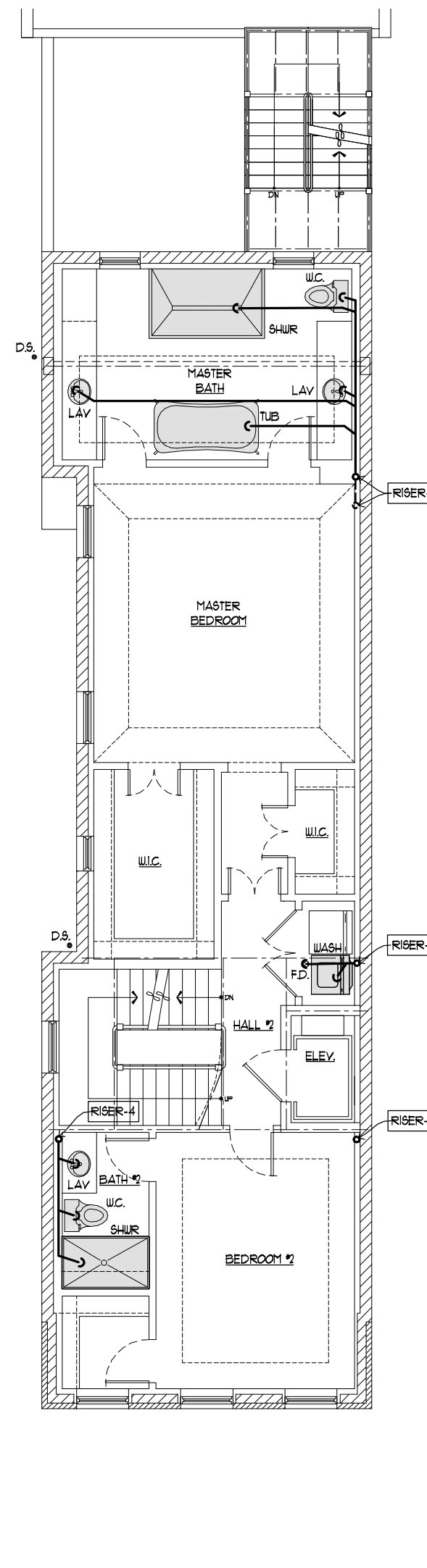
SUPPLY RISER DIAGRAM
N.T.S.



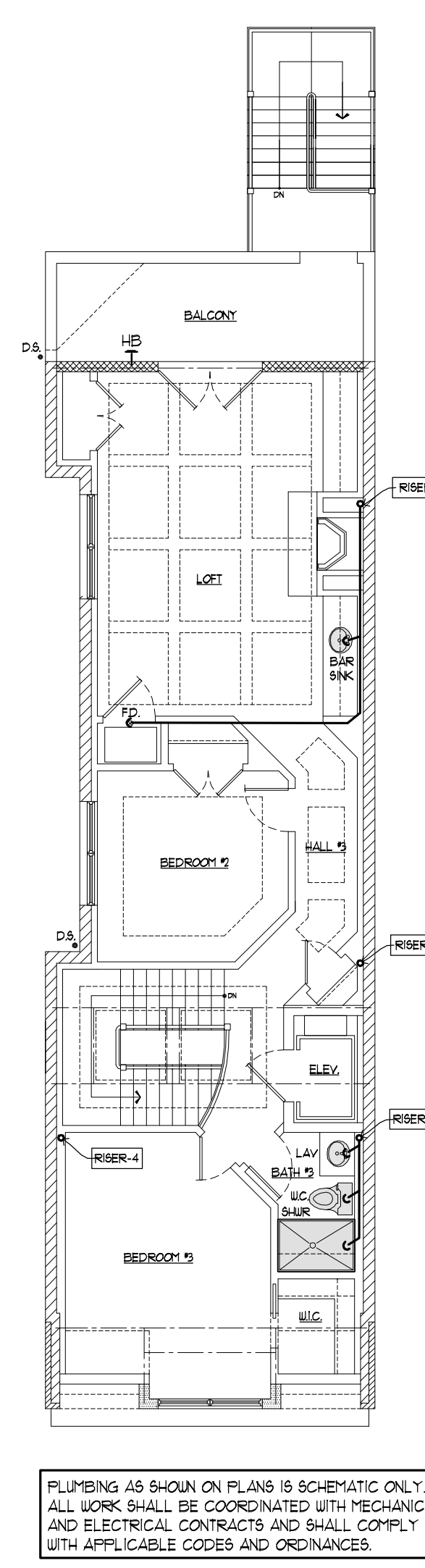
PLUMBING BASEMENT PLAN
SCALE: 1/8"=1'-0"



PLUMBING 1ST FLOOR PLAN
SCALE: 1/8"=1'-0"



PLUMBING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



PLUMBING 3RD FLOOR PLAN
SCALE: 1/8"=1'-0"

TOTAL PLUMBING FIXTURES 22
FIXTURES FOR USE:
1 SINK
1 D.U.
5 W.C.
8 LAV.
2 TUB
3 SHWR.
2 WASH / DRY
22 FIXTURES @ 80 GAL. H.H.

PLUMBING FIXTURE LIST:
TOILET - KOHLER WELLSWORTH 1.6 G/F
TUB - 5'-0" WHITE PERFORATA
BY STERLING
LAV - CULTURED MARBLE
VANITY TOP BY G.M.
BY ELKAY
SINK - STAINLESS STEEL
LAV. - SPACELYN
BY AMERICAN STANDARD

PLUMBING NOTES:
1. ALL COPPER ABOVE GROUND TO BE "L" TYPE
2. ALL COPPER BELOW GROUND TO BE "K" TYPE
3. ALL COPPER FITTINGS TO BE FORGED TYPE WITH NO LEAD SOLDER AND FLUX
4. 2" AIR CHAMBERS ON ALL MAIN WATER RISERS
5. 1" AIR CHAMBERS ON ALL FIXTURES
6. PROVIDE WATER HOSE DEVICE FOR SHOWERS
7. SHUTOFF STOPS ON ALL FIXTURES

ALL WORK TO BE DONE ACCORDING TO CITY OF CHICAGO CODE

PLUMBING AS SHOWN ON PLANS IS SCHEMATIC ONLY. ALL WORK SHALL BE COORDINATED WITH MECHANICAL AND ELECTRICAL CONTRACTS AND SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.

NOTE:
* PROVIDED SAFE PAN UNDER ALL WATER HEATERS (TYP.)

PROVIDE SUD ZONE FOR DRAINAGE STACKS THAT RECEIVE WASTE FROM SINKS, DISHWASHERS, LAUNDRY TRAYS, LAUNDRY WASHING MACHINES, AND SIMILAR FIXTURES. SUCH ZONES SHALL HAVE THE DRAINAGE AND VENT PIPING SO ARRANGED THAT SUDS PRESSURES WILL NOT AFFECT FIXTURES IN THE LOWER PORTION OF THE DRAINAGE SYSTEM. NO FIXTURE DRAIN BRANCH OR BRANCH VENT SHALL CONNECT TO ANY STACK IN A PRESSURE ZONE. SUCH ZONES SHALL BE CONSIDERED TO EXIST AT ANY OFFSET OF 60 DEG. TO 90 DEG. OR AT THE BASE OF ANY DRAINAGE. (19-25-11.3.2)

PERMIT SET 3-7-17

PROPOSED 3 STORY, SINGLE FAMILY HOME
CHICAGO, ILLINOIS
625 E. OAKWOOD BLVD.

S.K.T. ARCHITECTURE
1645 W. OGDEN AVE. SUITE # 523
CHICAGO, ILLINOIS 06612
912-953-5142 702-94-1614
central@skt.com skt.com

STATE OF ILLINOIS
LICENSED ARCHITECT
CHARLES F. SCHWARTZ
001-013713

PROJECT #:
PRINT DATE: 3-7-17

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