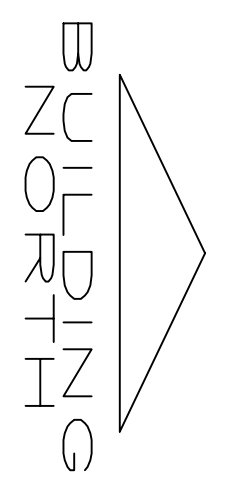


1
REVISION REFLECTS CHANGES TO FLOOR PLAN LAYOUT.

PROPOSED SECOND FLOOR PLUMBING PLAN-SANITARY
SCALE: 1/4" = 1'-0"

PROPOSED FIRST FLOOR PLUMBING PLAN-SANITARY
SCALE: 1/4" = 1'-0"

PROPOSED THIRD FLOOR PLUMBING PLAN-SANITARY
SCALE: 1/4" = 1'-0"

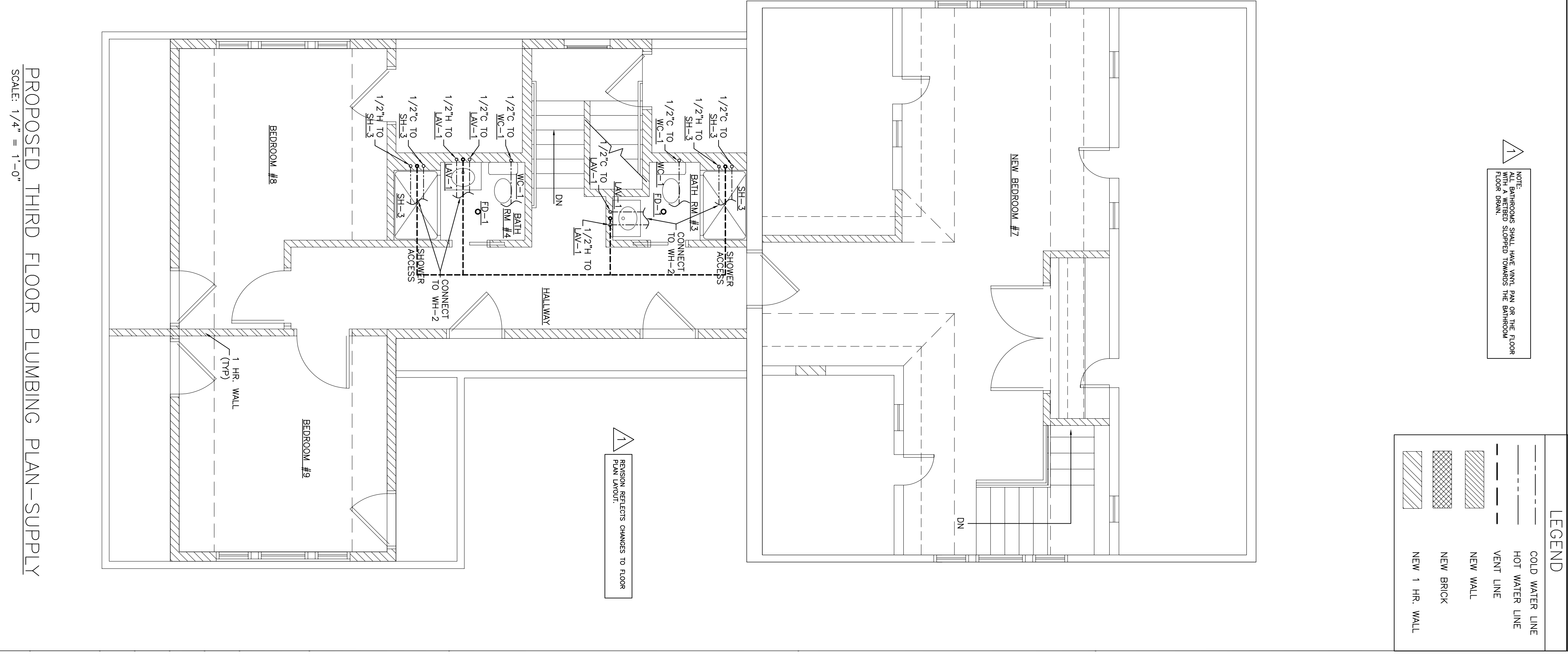
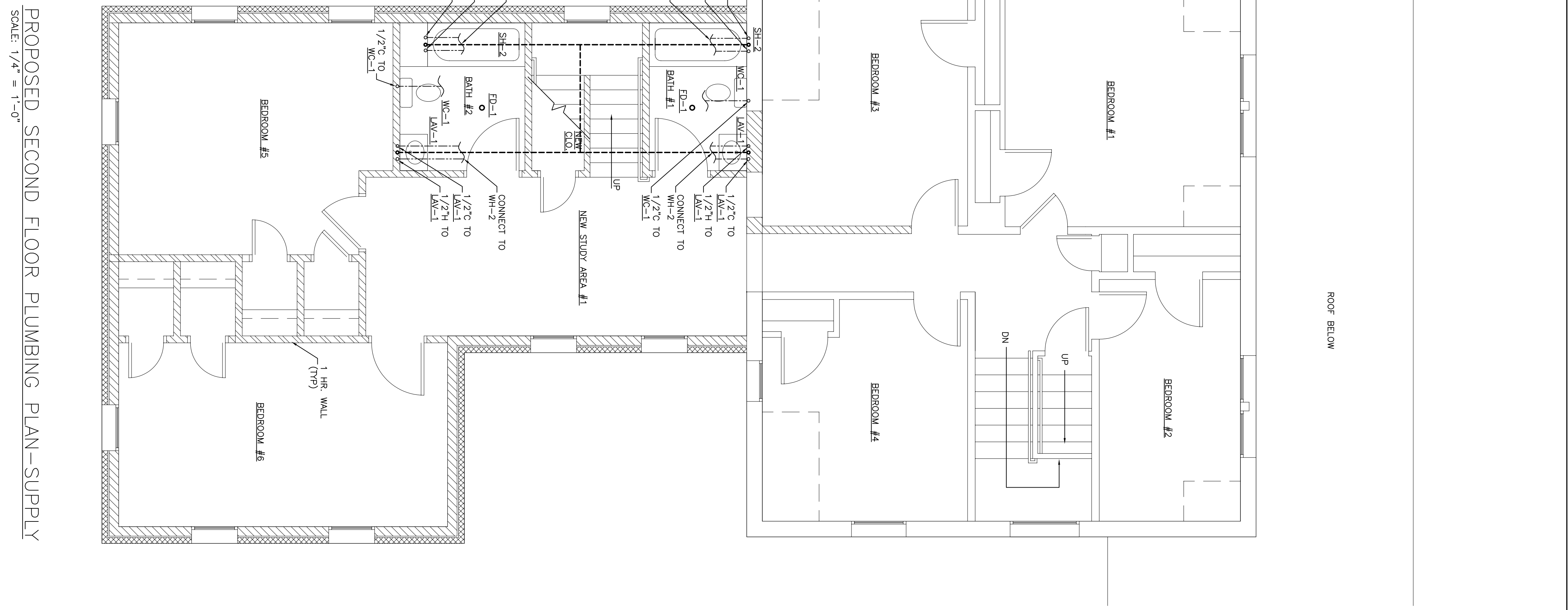
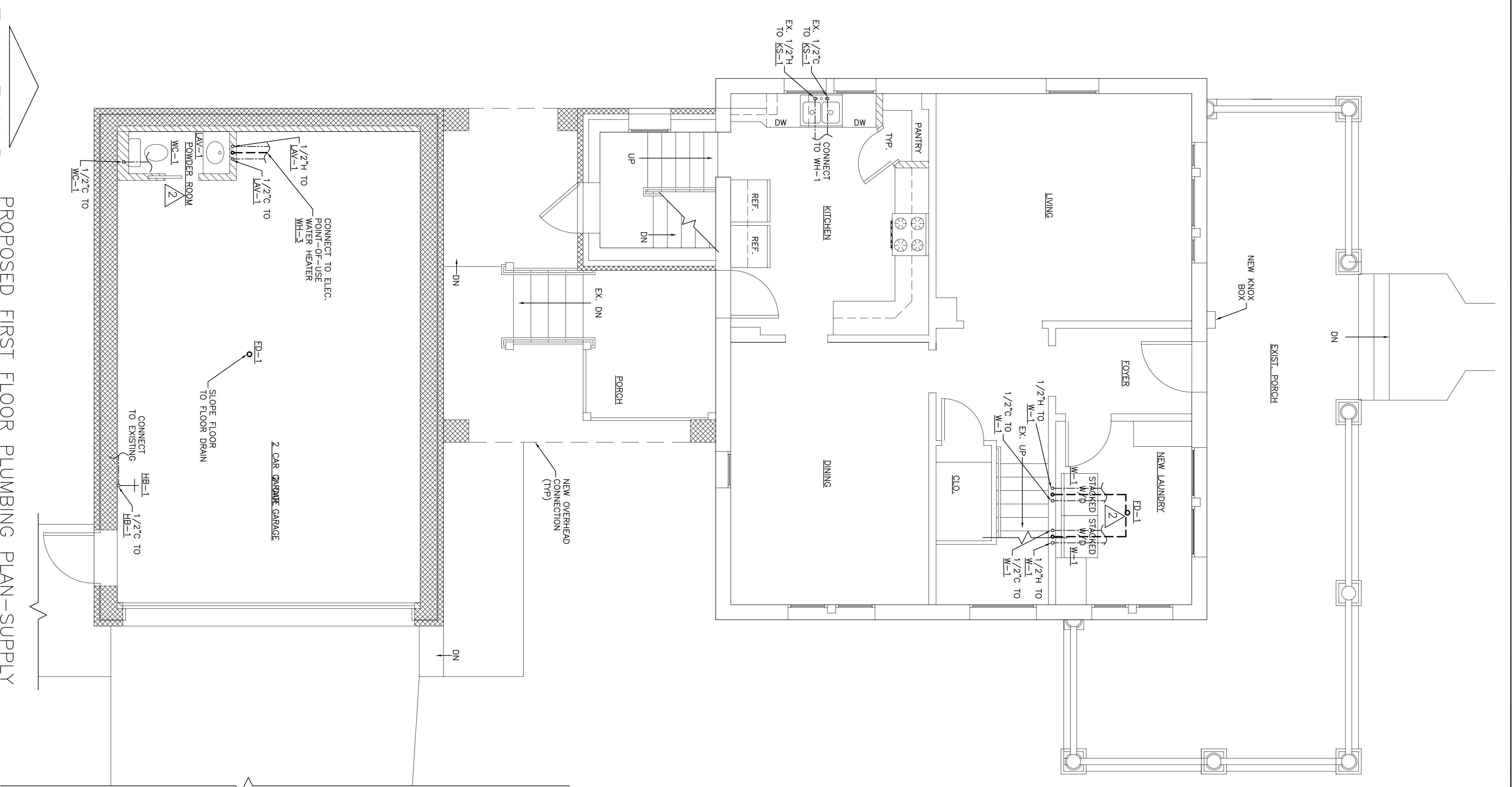


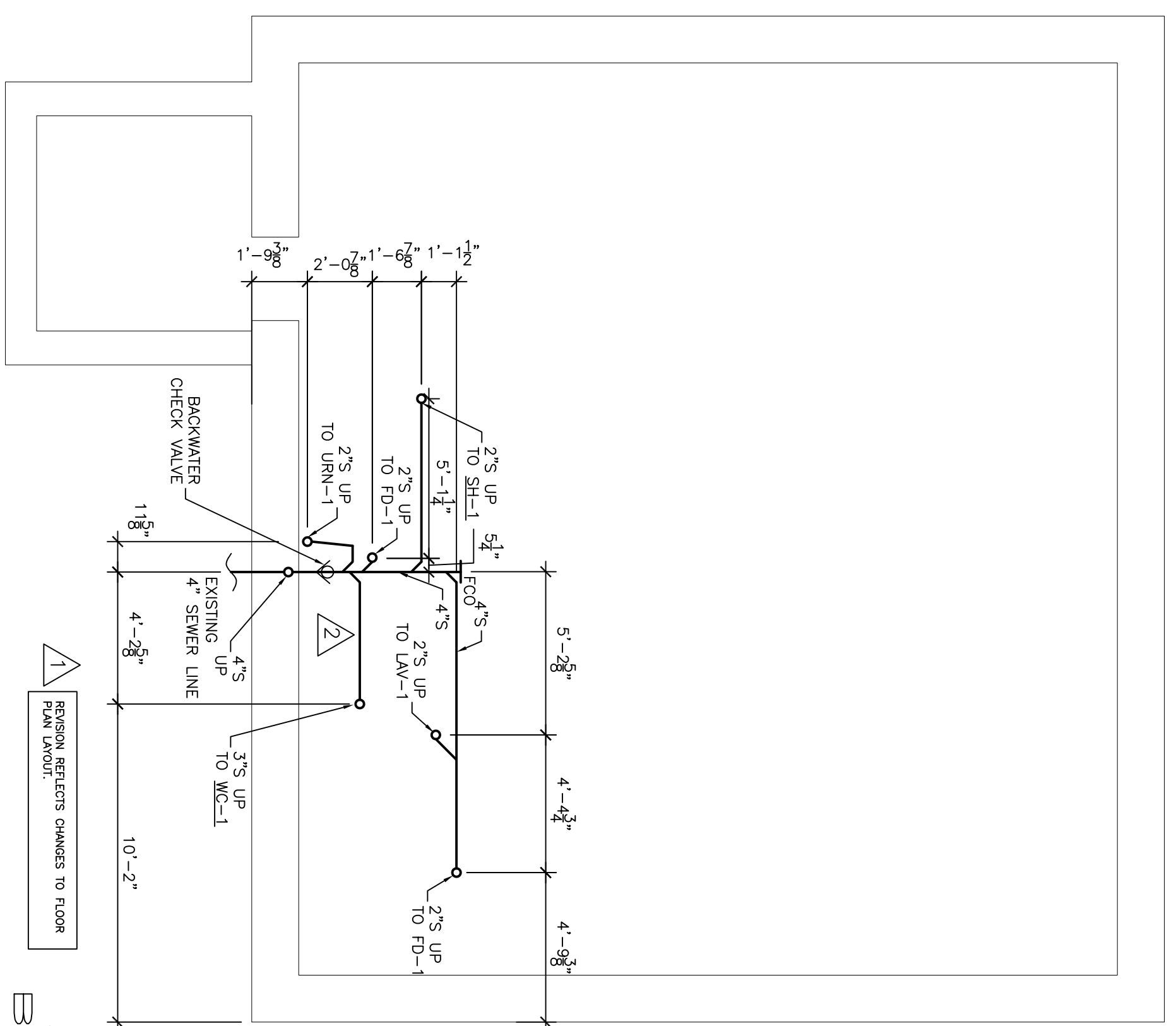
LEGEND

| | |
|--|------------|
| | SEWER LINE |
|--|------------|

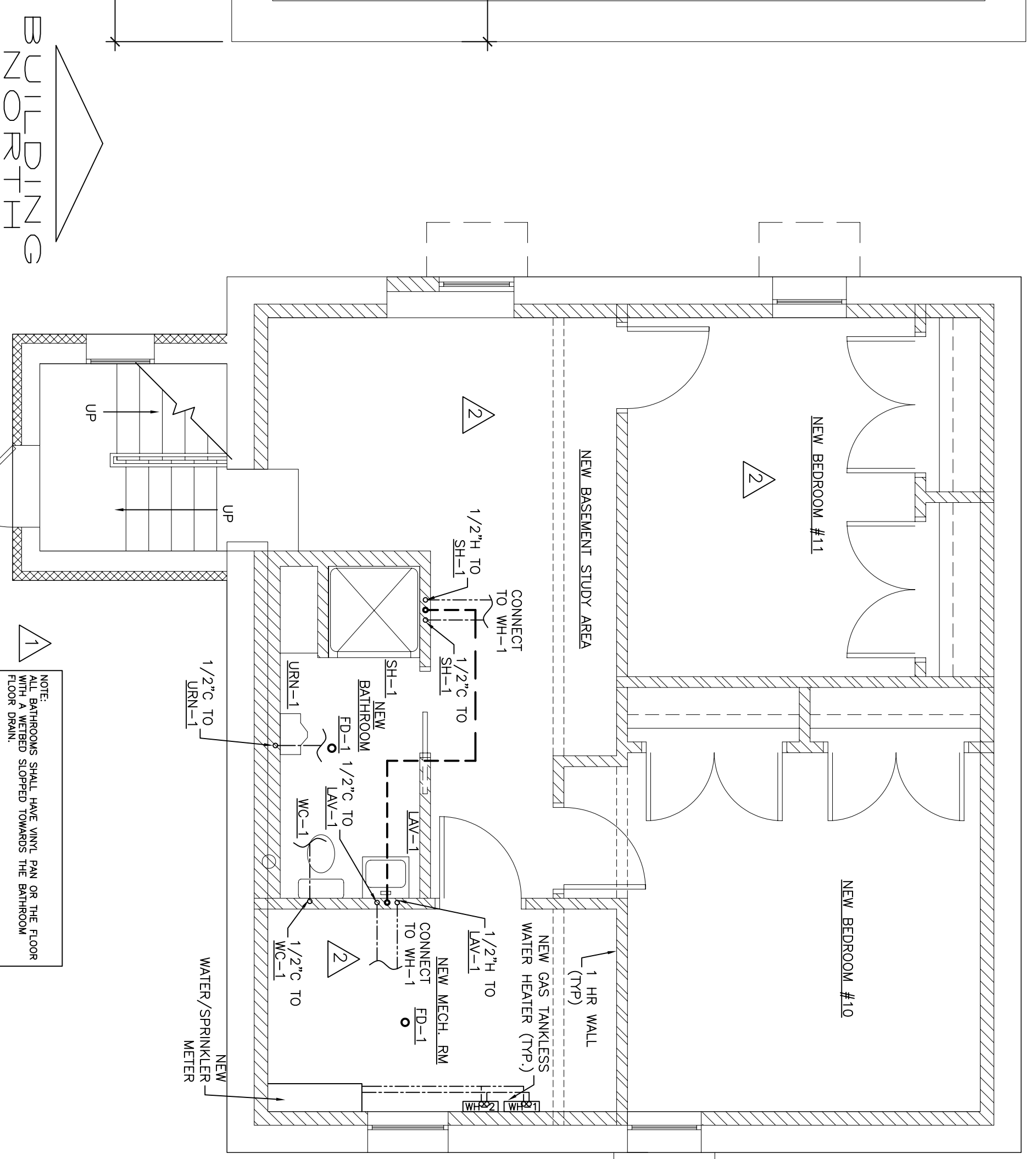
NOTE: PIPING SHALL RUN UP OR DOWN AS SHOWN WITH A WATER STOPPED TOWARDS THE BATHROOM FLOOR DRAIN.

| LEGEND | |
|--------|-----------------|
| | COLD WATER LINE |
| | HOT WATER LINE |
| | VENT LINE |
| | NEW WALL |
| | NEW BRICK |
| | NEW 1 HR. WALL |





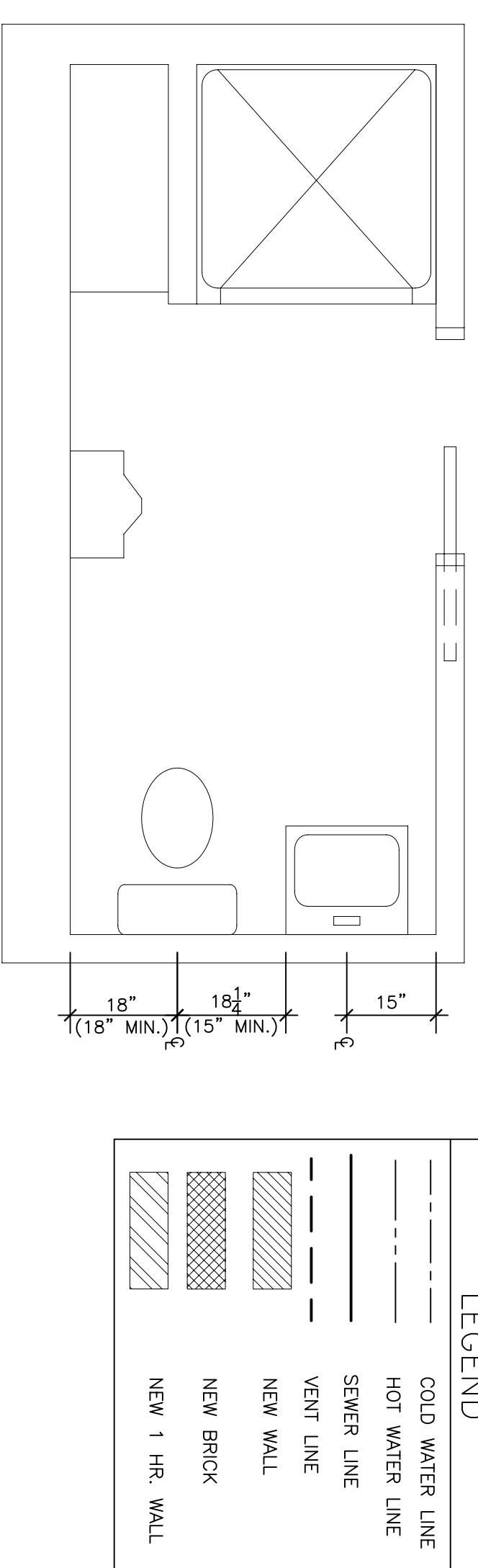
PROPOSED BASEMENT PLUMBING PLAN-SANITARY
SCALE: 1/4" = 1'-0"



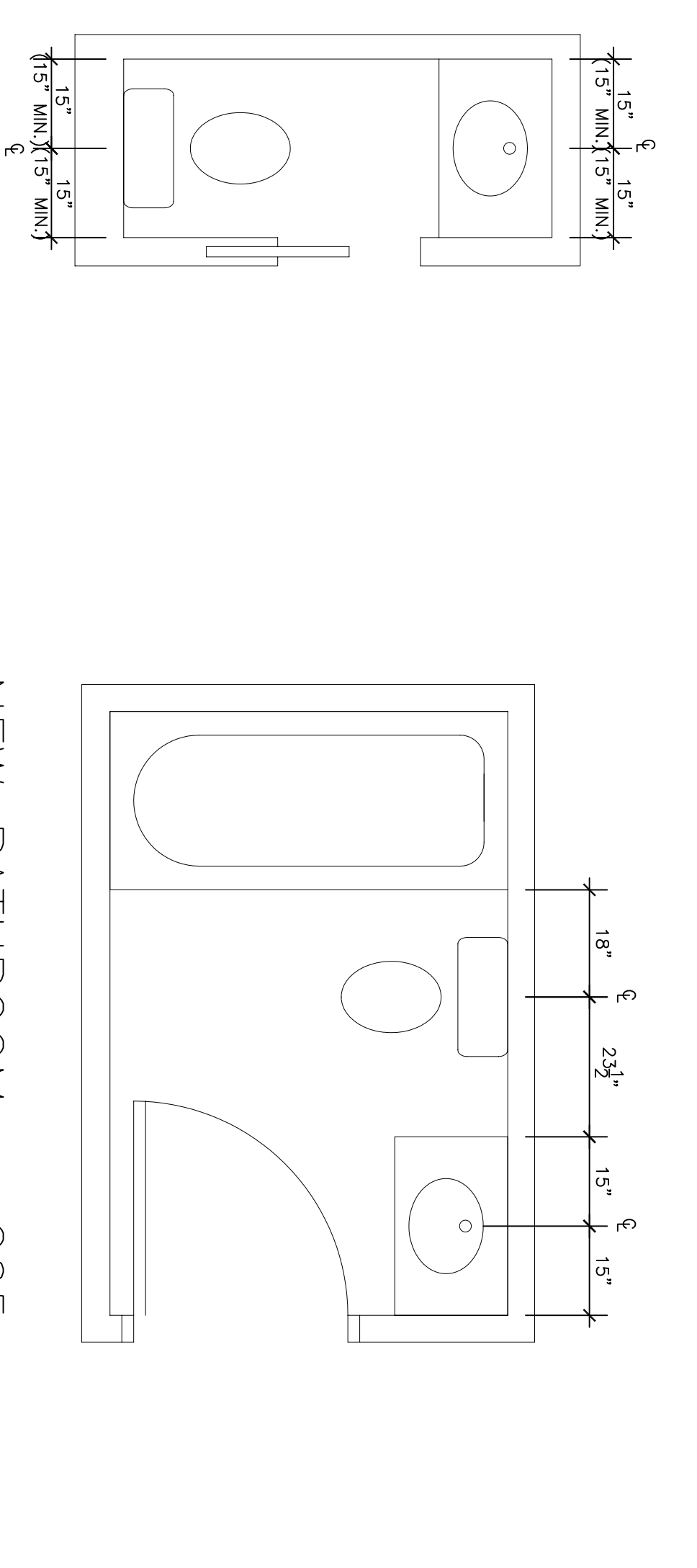
PROPOSED BASEMENT PLUMBING PLAN-SUPPLY
SCALE: 1/4" = 1'-0"

| FIXTURE # | DESCRIPTION | FIXTURE MFG/CR OR EQUAL | TRIM MFG/CR OR EQUAL | HW | CW | W | V | REMARKS |
|-----------|----------------------|--|--|------|------|----|------|---|
| WH-1-2 | WATER HEATER | RINNAI | | 3/4" | 3/4" | - | - | GAS TANKLESS WATER HEATER |
| WH-3 | WATER HEATER | | | 3/4" | 3/4" | - | - | ELECTRIC POINT-OF-USE WATER HEATER |
| WC-1 | WATER CLOSET | AMERICAN STANDARD MODEL # 2386.010 WHITE | SEAT W/ LID WHITE | - | 1/2" | 3" | - | |
| URN-1 | URINAL | AMERICAN STANDARD MODEL # 6400.014 WHITE | AMERICAN STANDARD MODEL # 6045.051 | - | 3/4" | 2" | - | TO-THE-FLOOR TYPE |
| LAV-1 | LAVATORY | AMERICAN STANDARD MODEL # 0413.444 WHITE | AMERICAN STANDARD MODEL # 81291.000 TWO HANDLE | 1/2" | 1/2" | 2" | 1/2" | COUNTERTOP LAVATORY |
| SH-1 | ADA ADAPTABLE SHOWER | FLORESTONE 3PC-40-40H | Faucet set by manufacturer. Handheld slide | 1/2" | 1/2" | 2" | 1/2" | ANTI-SCALD TYPE PER ASTM 1016 VALVES SHALL BE PRESSURE BALANCED AT THIS TIME. PROVIDE BLOCKING. |
| SH-2 | BATH/SHOWER | AMERICAN STANDARD MODEL # 2696 CAST IRON TUB WHITE | AMERICAN STANDARD MODEL # 1675.502 COLONY SOFT. CHROME VALVE: R12755 | 1/2" | 1/2" | 2" | 1/2" | ANTI-SCALD TYPE PER ASTM 1016 VALVES SHALL BE PRESSURE BALANCED |
| SH-3 | SHOWER | MUSTE MODEL # 748-32 DURAWALL W/ 3248M BASE WHITE | AMERICAN STANDARD MODEL # 1675.501 COLONY SOFT. CHROME VALVE: R12755 | 1/2" | 1/2" | 2" | 1/2" | ANTI-SCALD TYPE PER ASTM 1016 VALVES SHALL BE PRESSURE BALANCE |
| W-1 | WASHER CONNECTION | | | 1/2" | 1/2" | 2" | 1/2" | W/ PAN |
| HB-1 | FROST FREE HOSE BIB | | | - | 1/2" | - | - | |
| FOO | FLOOR CLEAN OUT | ZURN CO-2401 | | - | 1/2" | - | - | |
| FD-1 | FLOOR DRAIN | ZURN FD-2201 | | - | - | 2" | - | TRAP PRIMER @ MECH. ROOM W/ HAND SPRAY ONLY |
| EP-1 | SEWAGE PUMP | ENVIRONMENT ONE | | - | - | - | - | NO SUBSTITUTIONS |

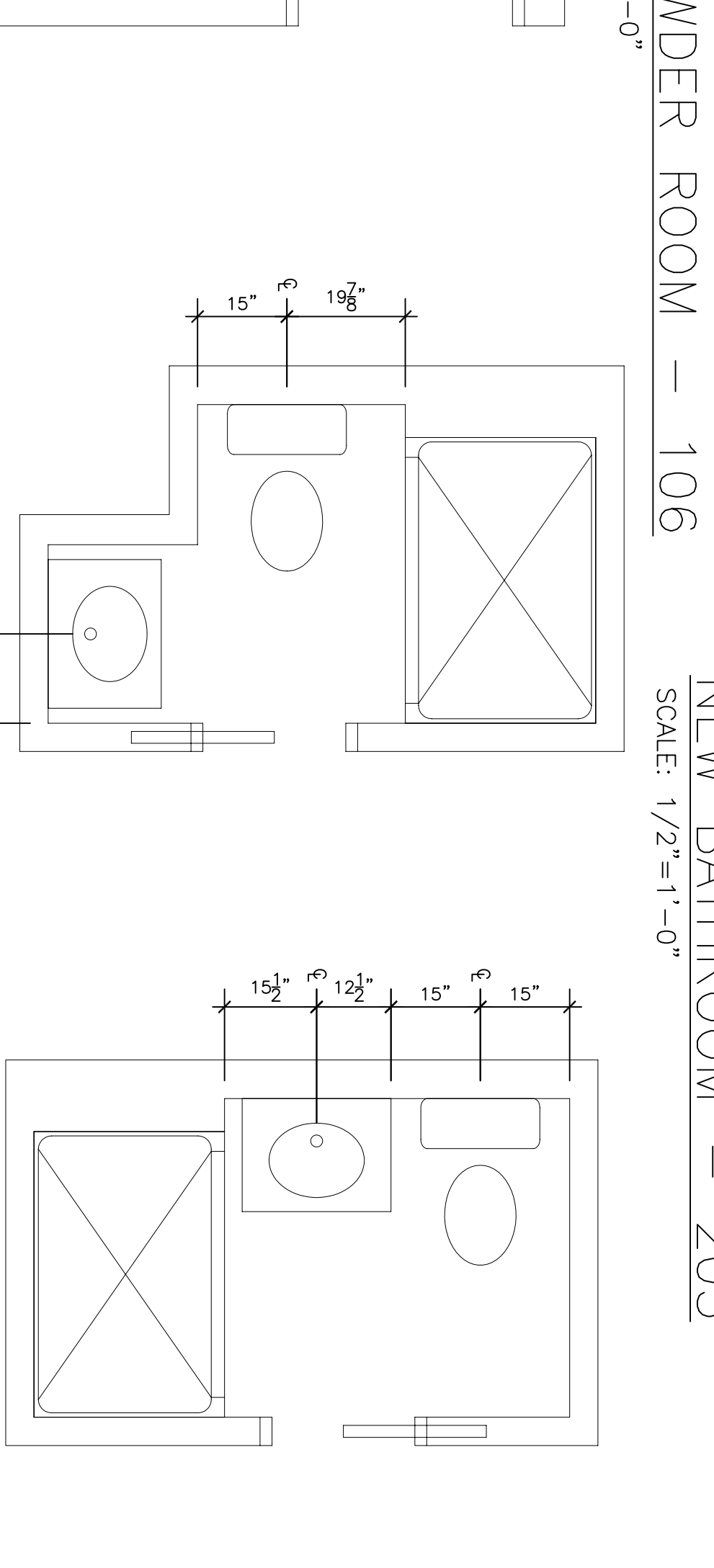
| HANGER/SUPPORT SCHEDULE - PLUMBING | | |
|------------------------------------|----------------------------|--------------------------|
| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING | MAXIMUM VERTICAL SPACING |
| COPPER 1 1/4" & SMALLER | 6' | 10' |
| COPPER 1 1/2" & LARGER | 10' | 10' |
| STEEL | 12' | 15' |
| PVC | 4' | 4' |



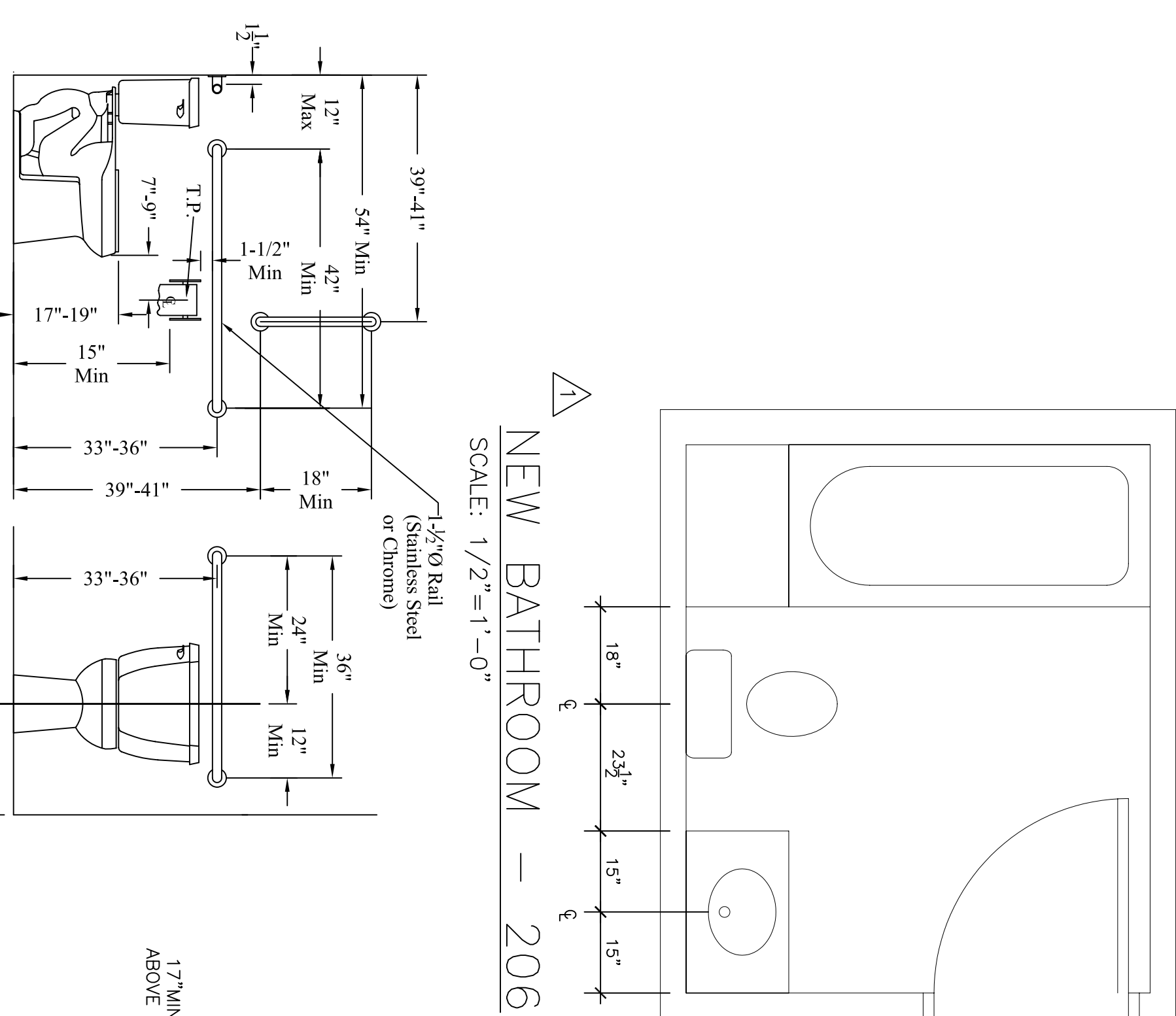
NEW BASEMENT BATHROOM - 005
SCALE: 1/2" = 1'-0"



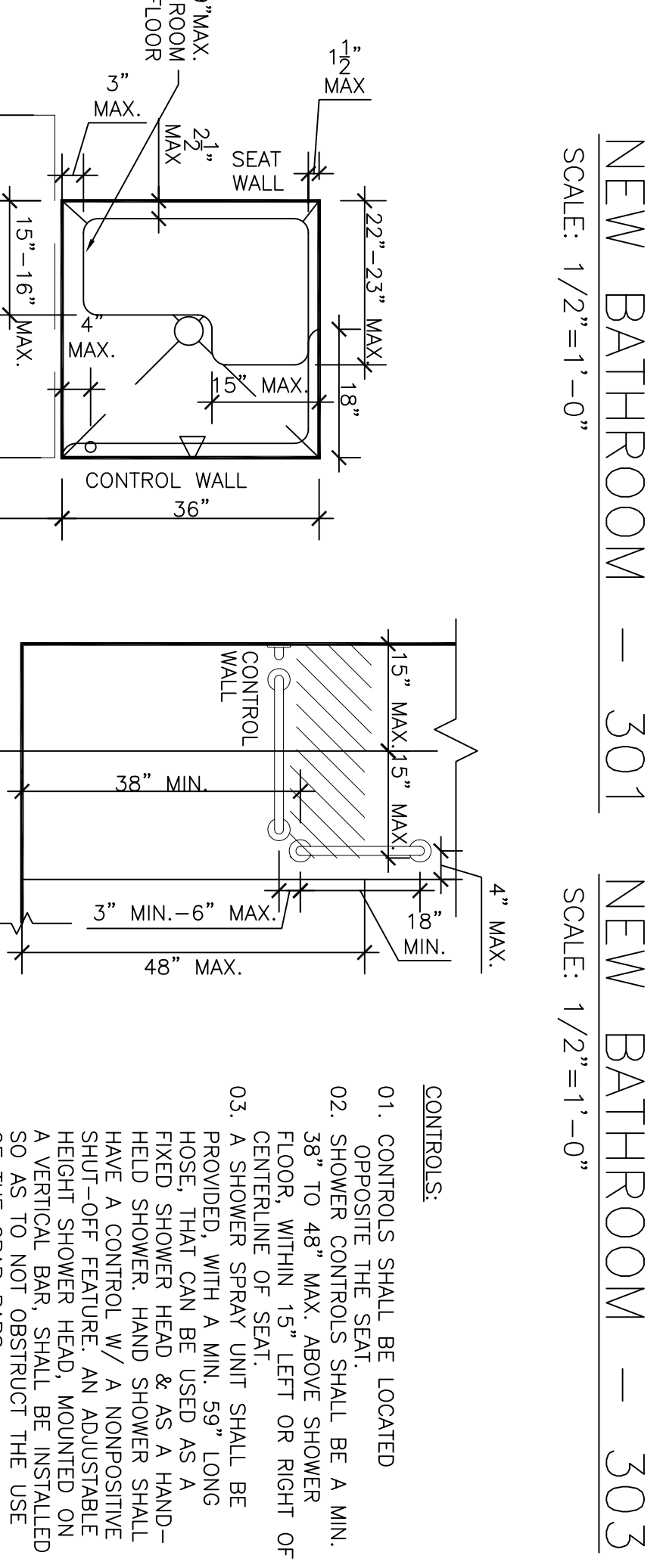
NEW POWDER ROOM - 106
SCALE: 1/2" = 1'-0"



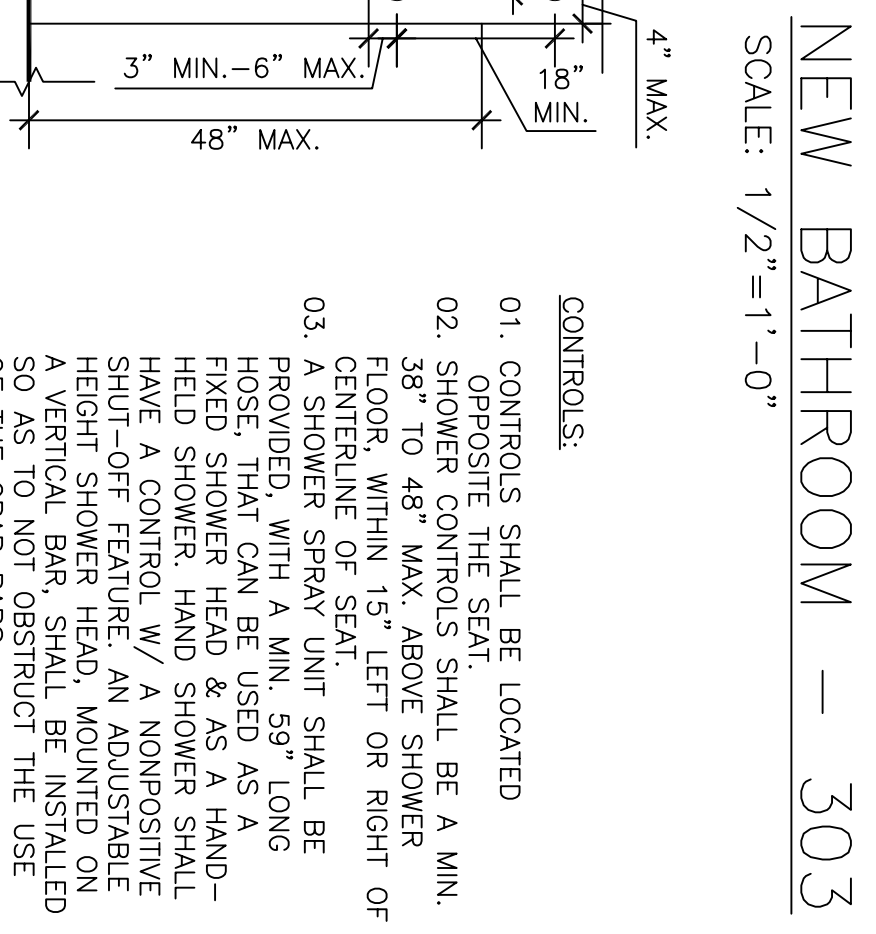
NEW BATHROOM - 205
SCALE: 1/2" = 1'-0"



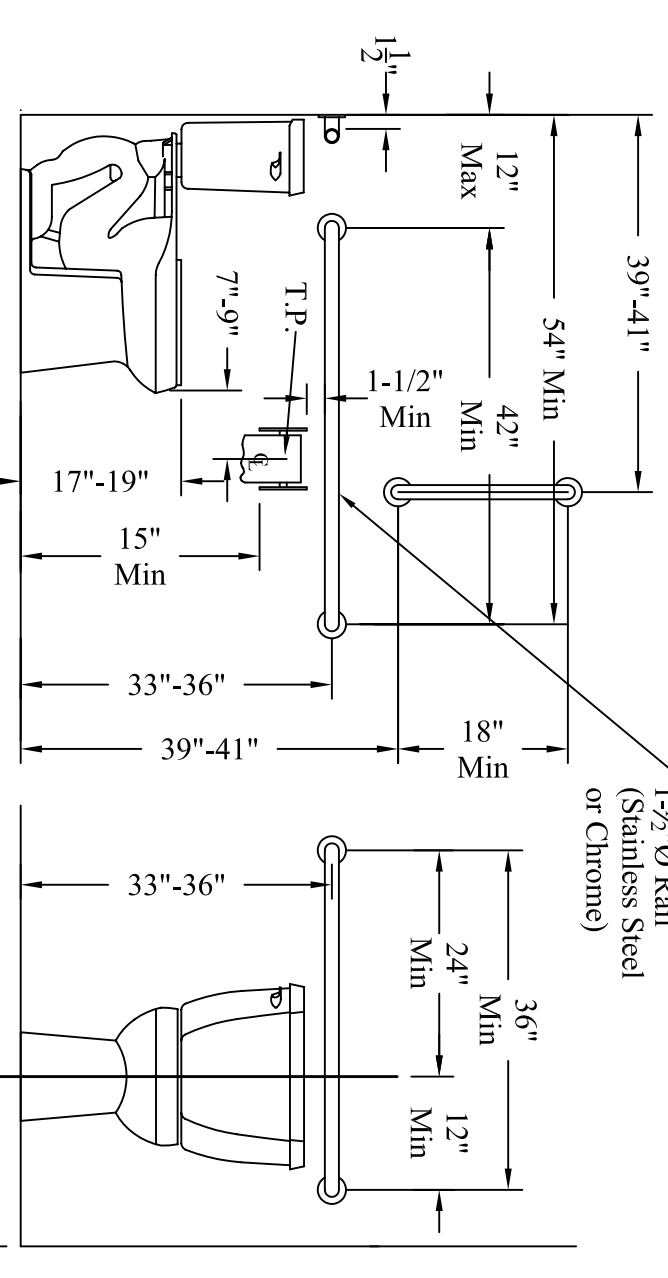
NEW BATHROOM - 206
SCALE: 1/2" = 1'-0"



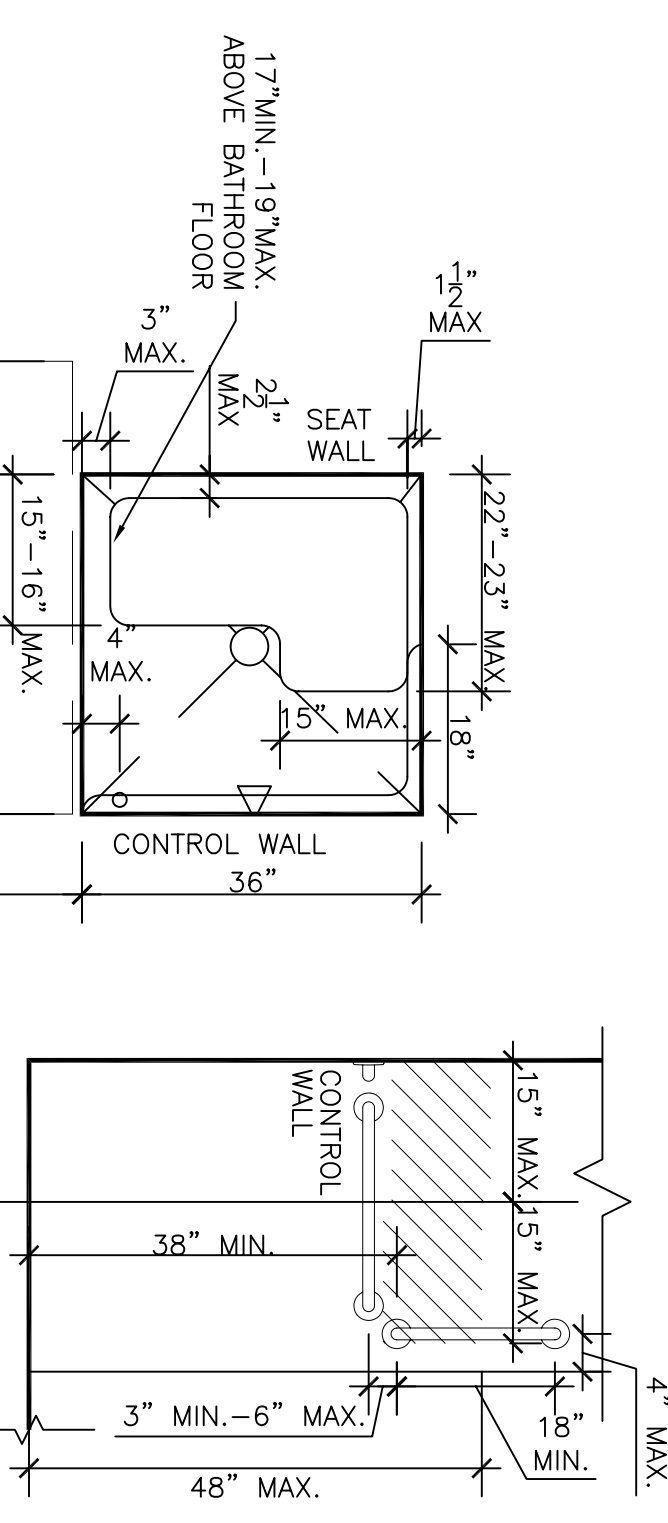
NEW BATHROOM - 301
SCALE: 1/2" = 1'-0"



NEW BATHROOM - 303
SCALE: 1/2" = 1'-0"



ADA COMPLIANT DETAILS
SCALE: N.T.S.



ADA COMPLIANT SHOWER DETAIL
SCALE: N.T.S.

- CONTROLS:
01. CONTROLS SHALL BE LOCATED OPPOSITE THE SEAT.
 02. SHOWER CONTROLS SHALL BE A MIN. 8\"/>
 - 03. A SHOWER SPRAY UNIT SHALL BE PROVIDED, WITH A MIN. 59\"/>
 - 04. THE SHOWER HEAD SHALL HAVE A CONTROL W/ A NONPOSITIVE SHUT-OFF FEATURE. AN ADJUSTABLE HEATED SHOWER SEAT, MOUNTED ON A MIN. 4\"/>
 - 05. SHOWER SHALL DELIVER WATER THAT IS 120\"/>
- THRESHOLD:
01. SHOWER COMPARTMENT THRESHOLD SHALL BE 1/2\"/>

(NOTE: INFORMATION PROVIDED FOR BLOCKING LOCATIONS ONLY. GRAB BARS ARE NOT REQUIRED TO BE INSTALLED AT THIS TIME.)

(NOTE: INFORMATION PROVIDED FOR BLOCKING LOCATIONS FOR GRAB BARS & SEAT ONLY. GRAB BARS & SEAT ARE NOT REQUIRED TO BE INSTALLED AT THIS TIME.)

DIVISION 22 - PLUMBING

- A) THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF PLUMBING SYSTEMS AND EQUIPMENT.
- B) FINISH AND INSTALL PLUMBING SYSTEMS COMPLETE AND OPERATIONAL. THE SCOPE OF PLUMBING WORK SHALL INCLUDE ALL NECESSARY MATERIALS, LABOR, AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND OPERATIONS NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ALL PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- C) ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
- D) THE PLUMBING CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY THE CONNECTION REQUIREMENTS AND THE CONFIGURATIONS OF PLUMBING EQUIPMENT BEFORE INSTALLATION.
- E) EQUIPMENT AND MATERIAL SHOWN ON DRAWINGS ARE BASED ON MANUFACTURER'S PUBLIS

- ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
- F) IF EQUIPMENT, FIXTURES AND MATERIAL OTHER THAN THAT SPECIFIED OR SPECIFIED IS APPROVED AND PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE REVISED UTILITIES AND SERVICE CONNECTIONS AND VERIFY THE SPACE ALLOTTED FOR ADEQUACY AND CLEARANCE REQUIREMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REVISED POWER, WATER, WASTE DRAINS FUEL LINES AND VENT REQUIREMENTS.
- G) COORDINATE ALL LOCATIONS AND SIZE OF STRUCTURAL FLOOR AND WALL PENETRATIONS WITH THE GENERAL CONTRACTOR AND PROVIDE CODE REQUIRED SEALS AT ALL FIRE-RATED WALL, CEILING, ROOF AND FLOOR PENETRATIONS.
- H) ACCESS DOORS AND/OR PANELS SHALL BE PROVIDED AT ALL MAINTENANCE AND SERVICE LOCATIONS FOR CONCEALED CONTROL DEVICES, VALVES AND PLUMBING EQUIPMENT/DEVICES. UNLESS A SIZE IS SPECIFICALLY NOTED, PANELS SHALL BE SIZED TO SERVICE EQUIPMENT/DEVICE. DOORS AND PANELS SHALL HAVE THE SAME FIRE RATING AS THE WALL OR CEILING IN WHICH THEY ARE INSTALLED. ACCESS DOORS AND/OR PANELS ARE NOT REQUIRED WHERE ADJUSTMENT, MAINTENANCE OR REPAIR IS POSSIBLE THROUGH LAID-ON SPREADER CEILING.
- I) AT THE COMPLETION OF THE WORK AND PRIOR TO THE FINAL ACCEPTANCE, ALL PARTS OF THE WORK SHALL BE THOROUGHLY CLEANED.
- J) ELEVATIONS LISTED FOR ALL PLUMBING SYSTEM PIPING IN THE CONTRACT DOCUMENTS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION AGAINST EXISTING CONDITIONS, UTILITIES AND NEW CONSTRUCTION. ALL SLOPED PLUMBING SYSTEMS SHALL HAVE RIGHT OF WAY OVER ALL OTHER BUILDING SYSTEM COMPONENTS.
- K) ALL EXISTING BUILDING AND SITE FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ALL DAMAGE OCCURRING TO EXISTING CONSTRUCTION CAUSED BY THE CONTRACTOR'S OPERATIONS AT HIS/HER EXPENSE TO THE COMPLETE SATISFACTION OF THE OWNER.
- L) ALL PENETRATIONS THROUGH THE WALLS AND CEILINGS SHOULD BE CALKED REGARDLESS OF WHETHER OR NOT THEY ARE FIRE RATED. THIS IS FOR ACUSTICAL SEPARATION.
- M) THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING ASSOCIATED WITH THE PLUMBING SCOPE OF WORK.
- N) NOT ALL SYMBOLS AND ABBREVIATIONS ON THIS LEGEND APPLY TO THIS PROJECT.

02. PIPING

- A) SOIL, WASTE AND VENT PIPING SHALL BE PVC SCHEDULE 40 PIPE WITH SOLVENT WELDED
- B) DOMESTIC HOT AND COLD WATER PIPING:
 - 1) ABOVE GROUND DOMESTIC HOT AND COLD WATER:
 - a) COPPER PIPING SHALL BE TYPE L HARD COPPER WITH LEAD-FREE SOLDER FITTINGS. PROVIDE 3/8" CLOSED CELL ELASTOMERIC PIPE INSULATION ARMSTRONG ARANFLEX II ON ALL DOMESTIC HOT AND COLD WATER PIPING. THAT IS LOCATED IN EXTERIOR BUILDING WALLS OR AREAS, SUBJECT TO FREEZING TEMPERATURES.
 - b) PEX PIPING VANGUARD PEX, ZIRN PEX OR EQUIVALENT. PEX TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. COLD WATER LINES TO RIN FROM PEX MANIFOLD DIRECTLY TO EACH FIXTURE. HOT WATER LINES TO RIN FROM PEX MANIFOLD DIRECTLY TO EACH FIXTURE. EACH COLD AND HOT WATER LINE TO FEED ONE FIXTURE ONLY UNLESS OTHERWISE NOTED ON PLANS.
 - 2) UNDERGROUND DOMESTIC HOT AND COLD WATER:
 - a) COPPER PIPING SHALL BE TYPE K HARD COPPER.
 - b) PEX PIPING SHALL BE VANGUARD PEX, ZIRN PEX OR EQUIVALENT. PEX TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. MINIMUM PITCH OF HORIZONTAL DRAINAGE BRANCHES AND SEWER PIPES SHALL BE 1/8" PER LINEAR FOOT FOR 3" TO 6" AND 1/16" PER LINEAR FOOT FOR 2" OR LESS.
- C) ROUGH-IN PIPING SHALL BE TESTED AND APPROVED BEFORE CLOSING IN WITH OTHER WORK.
- D) WELDER SHALL BE LICENSED AND TRAINED TO PERFORM ALL WORK REQUIRED FOR PROPER CONNECTIONS IN STRICT ACCORDANCE WITH REQUIREMENTS OF LOCAL SEWER AND WATER AUTHORITIES.
- E) MAINTAIN MINIMUM 10' HORIZONTAL SEPARATION BETWEEN WATER SERVICE PIPING AND BUILDING SEWER, WHERE WATER SERVICE PIPE AND BUILDING SEWER ARE LOCATED IN THE SAME TRENCH. WATER LINE SHALL BE INSTALLED A MINIMUM OF 18" ABOVE THE TOP OF THE HIGHEST POINT OF THE BUILDING SEWER AND INSTALLED ON A SOLID SHEL AT ONE SIDE OF THE TRENCH.
- F) WATER SERVICE LINE SHALL BE A MINIMUM OF 4' BELOW GRADE. BUILDING SEWER SHALL BE A MINIMUM OF 4' BELOW GRADE.
- G) VENT LINES SHALL TERMINATE 12" ABOVE ROOF.
- H) DISINFECTION OF POTABLE WATER SYSTEM SHALL BE AS FOLLOWS:
 - 01) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
 - 02) THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE. THE SYSTEM SHALL BE PAUSED AND ALLOWED TO STAND FOR 24 HOURS. ON THE SYSTEM CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
 - 03) FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
 - 04) THE PROCEDURE SHALL BE REPEATED IF A BACTERIOLOGICAL EXAMINATION SHOWS THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

- I) FULL OPEN VALVES SHALL BE INSTALLED ON WATER SUPPLY PIPING.
- J) INSTALL SHUT-OFF VALVES AT EACH FIXTURE. INSTALL BRANCH SHUT-OFF VALVES WHERE INDICATED ON PLANS. LOCATE AND ORIENT VALVE OPERATORS FOR EASE OF ACCESS AND FULL LIMITS OF OPERATIONS.
- K) INSULATION AND VAPOR BARRIER SHALL BE PROVIDED ON ALL PIPING AND/OR EQUIPMENT SUBJECT TO HEAT LOSS, CONDENSATION OR CONSTITUTING A POTENTIAL BURN HAZARD.
- L) BUILDING CONSTRUCTION SHALL BE CRUSHED OR COMPRESSED THROUGH INTERFERENCE WITH SYSTEMS INSTALLED BY OTHER TRADES OR MAXIMIZE CEILING HEIGHT.
- M) INSTALL PLUMBING AND PIPING HIGH POINTS AS TIGHT AS POSSIBLE TO THE BUILDING STRUCTURE TO ALLOW PROPER PITCH AND PROVIDE AIR VENTS AT PIPING HIGH POINTS AND DRAINS AT LOW POINTS IN MANS.
- N) ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID FREEZING.
- O) FINISHED AREAS SHALL BE CHROME PLATED WITH A CHROME-PLATED ESCUTCHEON AT EACH FINISHED ENTRY/EXIT.
- P) ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED. EXPOSED PIPING IN AND CONSTRUCTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO FACILITATE ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT.
- Q) ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TO THE UNDERSIDE OF STRUCTURE.
- R) ACCESS SHALL BE PROVIDED TO ALL FULL OPEN AND SHUT-OFF PIPING, FIXTURE, EQUIPMENT AND APPLANCES. PROVIDE EACH PLUMBING FIXTURE WITH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES, REDUCERS AND ESCUTCHEONS.
- S) LOCATIONS OF FULL OPEN VALVES:
 - 01. ON THE BUILDING WATER SERVICE PIPE FROM THE PUBLIC WATER SUPPLY NEAR THE CURB.
 - 02. ON THE WATER DISTRIBUTION SUPPLY PIPE AT THE ENTRANCE INTO THE STRUCTURE.
 - 03. ON THE DISCHARGE SIDE OF THE METER.
 - 04. ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.

03. CLEANOUTS - PROVIDE CLEANOUTS AT THE END OF ALL SOIL AND WASTE LINES AND AT LOCATIONS AS REQUIRED BY CODE.

04. BACKFLOW - WATER SUPPLY CONNECTION REQUIRED TO BE PROTECTED WITH ASSI 1012 DEVICE.

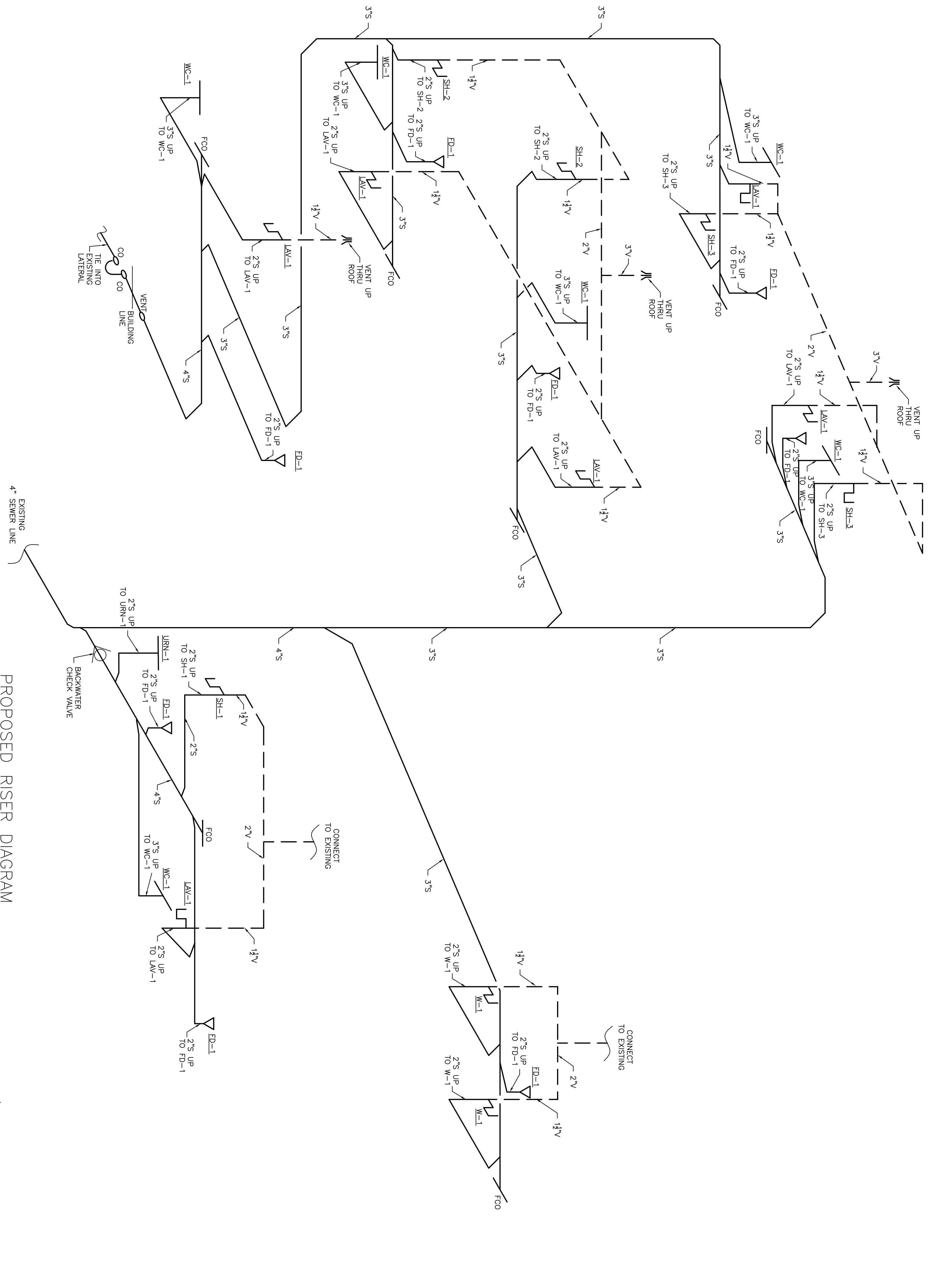
05. BACKWATER CHECK VALVE SHALL BE INSTALLED ON FIXTURES/DEVICES AS REQUIRED BY CODE AND AS SHOWN ON PLANS.

06. PLUMBING FIXTURES

- A) PROVIDE PLUMBING FIXTURES AND TRIM AS INDICATED ON DRAWINGS, SPECIFICATIONS DOCUMENTS AND PLUMBING FIXTURE SCHEDULE.

07. WATER HEATERS

- A) PROVIDE WATER HEATERS AS SHOW ON PLANS.




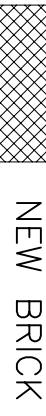
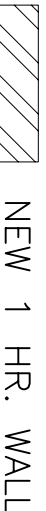
PROPOSED RISER DIAGRAM
SCALE: N.T.S.

LEGEND

- COLD WATER LINE
- HOT WATER LINE
- SEWER LINE
- VENT LINE

1 REGION REFLECTS CHANGES TO FLOOR PLAN LAYOUT

2 REGION REFLECTS CHANGES SCHEDULE

| LEGEND | |
|---|----------------|
|  | NEW WALL |
|  | NEW BRICK |
|  | NEW 1 HR. WALL |

DIVISION 21 – FIRE SUPPRESSION

01. NOTE: THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE SPRINKLER SYSTEM AND EQUIPMENT. COMPLETE INSTALLATION AND DESIGN SHALL BE SUBMITTED TO THE CENTRE REGION CODE PRIOR TO INSTALLATION FOR THEIR APPROVAL.

02. SCOPE OF WORK

- A) FURNISH AND INSTALL A COMPLETE AND OPERATIONAL WET PIPE SPRINKLER SYSTEM AS INDICATED HEREIN AND DETAILED ON THE DRAWINGS.
- B) THE SCOPE OF THE PROTECTION WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL MATERIALS, EQUIPMENT AND SERVICES AND IN PERFORMING ALL OPERATIONS NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF WET PIPE SPRINKLER SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- C) THE SPRINKLER CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- D) ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OR NFPA 13-R, AND ALL STATE AND LOCAL CODES AND REGULATIONS.

02. HYDRAULIC DESIGN INFORMATION

- A) OBTAIN THE MOST RECENT HYDRANT TEST FROM THE HYDRANT CLOSEST TO THE PROPOSED BUILDING.
- B) VERIFY HYDRANT TEST RESULTS WITH THE WATER AUTHORITY.
- C) HYDRAULICALLY DESIGN SYSTEM IN ACCORDANCE WITH NFPA 13. PRIOR TO STARTING CONSTRUCTION, SUBMIT HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS TO THE ARCHITECT/ENGINEER AND CENTRE REGION CODE OFFICE.

03. PIPING – SPRINKLER PIPING INSIDE OF BUILDING – BLACK STEEL, SCHEDULE 40, GROOVED FITTING AND MECHANICAL COUPLINGS, OR, WHERE PERMITTED BY NFPA 13-R, CPVC, SDR 135, 175 SIG. WORKING PRESSURE, EQUAL TO CENTRAL SPRINKLER CO. BLAZE MASTER

04. GATE VALVES – IRON BODY, BRONZE TRIM, RISING STEM, PRE-GROOVED FOR MOUNTING TAMPER SWITCH, OS&Y.

05. CHECK VALVES – IRON BODY, BRONZE TRIM, SWING CHECK WITH RUBBER DISK, RENEWABLE DISC AND SEAT.

06. DRAIN VALVES – BRASS BALL VALVE WITH CAP AND CHAIN, 3/4" HOSE THREAD.

07. SPRINKLERS

- A) SUSPENDED CEILING AREAS – STANDARD PENDANT TYPE WITH CHROME PLATED FINISH AND MATCHING ESCUTCHEON.
- B) EXPOSED AREAS – STANDARD UPRIGHT TYPE WITH BRASS FINISH
- C) AREAS REQUIRING SIDEWALL DISCHARGE – STANDARD SIDEWALL TYPE WITH CHROME PLATED FINISH AND MATCHING ESCUTCHEON
- D) AREAS BETWEEN CEILING AND FLOOR – STANDARD UPRIGHT TYPE WITH BRASS FINISH.

08. SPRINKLER SYSTEM SPECIALTIES

- A) WET PIPE SPRINKLER VALVE – CHECK TYPE VALVE WITH DEFERRABLE HYDRANT VALVE OPERATED TAMPER AND TAMPER PRESSEUR TRIM.
- B) WATER FLOW ALARM – ELECTRICALLY OPERATED TYPE ALARM GONG, RED ENAMELED.
- C) WATER FLOW SWITCH – VANE TYPE SWITCH WITH TWO CONTACTS.
- D) AUTOMATIC FIRE SUPPRESSION SYSTEMS SHALL BE MONITORED BY A CENTRAL – STATION SYSTEM.

09. FIRE DEPARTMENT CONNECTION

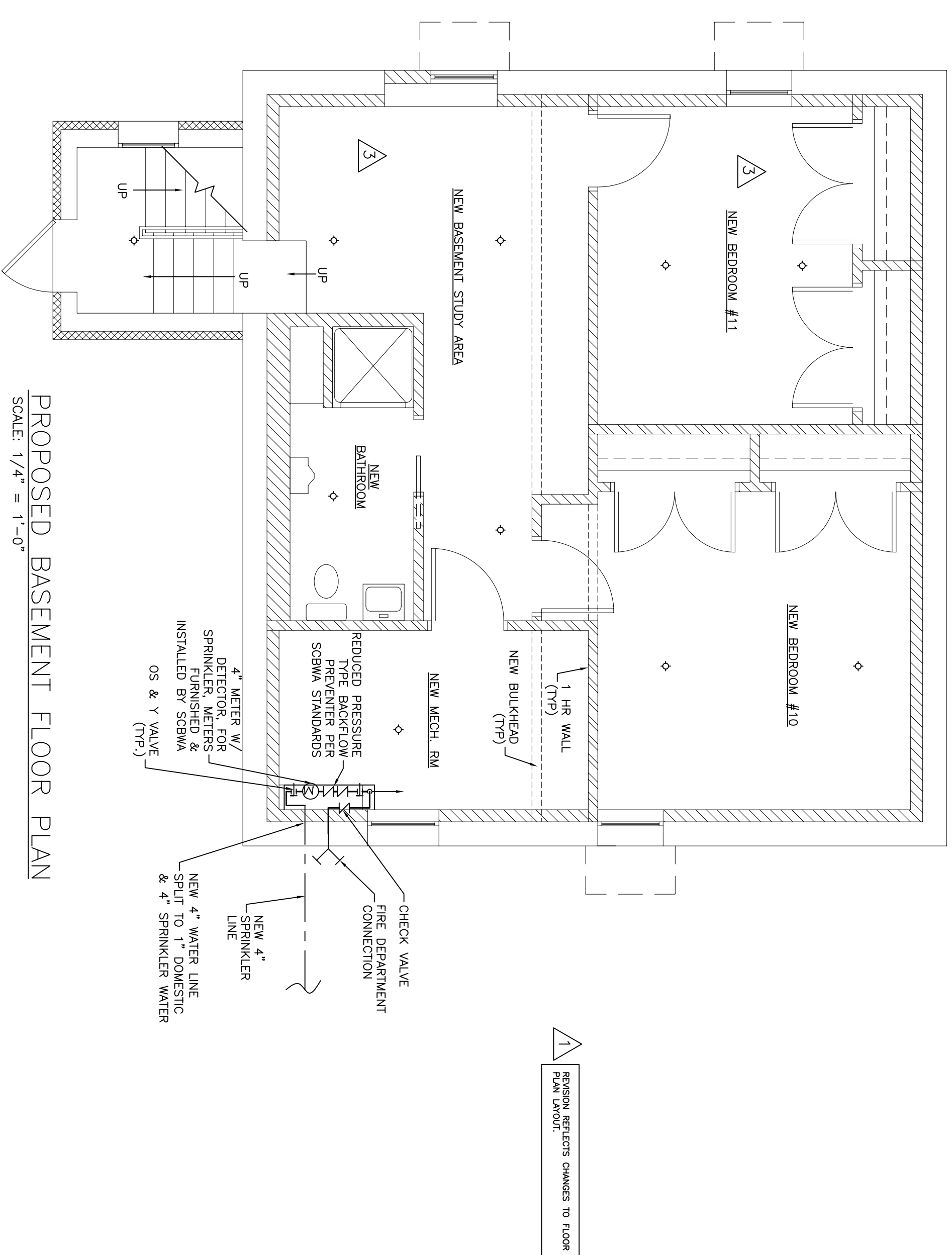
- A) PROVIDE FLUSH MOUNTED WALL TYPE WITH BRASS FINISH & KNOX CAPS.
- B) CONNECTION SHALL HAVE TWO OUTLETS WITH NST THREADS, THREAD SIZE TO SUIT LOCAL FIRE DEPARTMENT HARDWARE, WITH THREADED DUSTY CAP AND CHAIN OF MATCHING MATERIAL AND FINISH.
- C) DRAIN – 3/4" AUTOMATIC DRIP TO OUTSIDE.
- D) LABEL – "SPRINKLER – FIRE DEPARTMENT CONNECTION".

10. GENERAL

- A) INSTALL ALL WORK IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NFPA 13-R, LATEST EDITION.
- B) PROVIDE SLEEVES WHERE PIPES PENETRATE FLOORS AND WALLS.
- C) SEAL PIPE AND SLEEVE PENETRATIONS TO MAINTAIN FIRE RESISTANCE EQUIVALENT TO FIRE SEPARATION REQUIRED.
- D) PROVIDE GATE VALVES FOR SHUTOFF OR ISOLATING SERVICE, WHERE APPROVED. USE BUTTERFLY VALVES INSTEAD OF GATE VALVES.
- E) PROVIDE SYSTEM VALVES AT MAIN SHUTOFF VALVES, LOW POINTS OF PIPING AND APPARATUS.
- F) CONDUCT SYSTEM TO SHUTTER SOURCE WITH DOUBLE CHECK VALVES.
- G) FLUSH ENTIRE PIPING SYSTEM OF FOREIGN MATTER.
- H) HYDROSTATICALLY TEST ENTIRE SYSTEM.

11. KNOX BOX

- A) A KNOX BOX SHALL BE INSTALLED WITHIN 6' OF MAIN ENTRANCE DOOR, OR A DOOR LOCATED ON THE ADDRESS SIDE OF THE BUILDING IF THE MAIN ENTRANCE IS NOT LOCATED ON THE ADDRESS SIDE.
- B) A KNOX BRAND STICKER(S) SHALL BE PLACED ON ALL GRADE LEVEL KEYPED DOORS FOR WHICH KEYS ARE PROVIDED ON ALL ELEVATIONS OF THE BUILDING.
- C) FOR BUILDINGS WITH SPRINKLER ROOM THAT IS ACCESSIBLE FROM THE BUILDING, THE SPRINKLER ROOM SHALL BE KEYPED. KEYS SHALL BE LOCATED AT THE MAIN ENTRANCE. THE DOOR SHALL BE IDENTIFIED & KNOX STICKERS WILL BE PLACED ON ALL KEYPED TENANT DOORS FOR WHICH KEYS ARE PROVIDED.
- D) FOR BUILDINGS THAT HAVE AN INTERIOR SPRINKLER ROOM THAT IS ACCESSIBLE BY A TENANT SPACE, BUT SERVES OTHER TENANT AREAS, THE KNOX BOX SHALL BE LOCATED AT THE ADDRESS SIDE OF THE TENANT SPACE.
- E) KEYS REQUIRED IN KNOX BOX ARE THOSE NECESSARY TO REACH SPRINKLER VALVE, ELECTRICAL ROOM, ALARM PANEL, ALARM PANEL CONTROL, ADDRESS, ELECTRICAL ROOM, GCGA CARD THAT WILL CONTAIN THE KNOX BOX SHALING DATA, WHERE APPLICABLE.
- F) INVENTORY OF ALL KEYS STORED IN BOX.
- G) SPRINKLER VALVE LOCATION.
- H) FDC LOCATION.
- I) FACP LOCATION.
- J) ELECTRICAL ROOM LOCATION.
- K) ELEVATOR ROOM LOCATION.
- L) DOOR CODE.
- M) CRITICAL TENANT/BUILDING DATA.
- N) DATE LAST UPDATED.



PROPOSED BASEMENT FLOOR PLAN
SCALE 1/4" = 1'-0"

BUILDING