

1. CONTRACTOR TO VISIT JOB SITE OR PREMISES AND BE FAMILIAR WITH JOB CONDITIONS PRIOR

TO SUBMITTING BID. 2. CONTRACTOR TO PAY FOR ALL TAXES AND FEES AND GIVE LOCAL AUTHORITIES ALL NOTICES RELATING TO HIS WORK.

3. ALL WORK SHALL BE DONE IN FIRST CLASS-MANNER. 4. ALL MATERIALS USED FOR JOB SHALL BE NEW AND BEST OF THEIR KIND.

5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE AND LOCAL CODES. 6. CONTRACTOR IS TO GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR AFTER COMPLETION AGAINST

ALL DEFECTS OF MATERIALS, EQUIPMENT AND WORKMANSHIP. 7. CONTRACTOR TO TEST SYSTEM PRIOR TO OPERATION. 8. ALL CUTTING AND PATCHING CAUSED BY THIS WORK SHALL BE DONE BY THIS CONTRACTOR.

9. ALL UNDERGROUND SEWER LINES SHALL BE

10. ALL SEWER PIPING ABOVE FLOOR SHALL BE PVC AND FITTINGS.

11. ALL DOMESTIC HOT AND COLD WATER LINES SHALL BE COPPER PIPING TYPE "L" 12. INSULATE COLD AND HOT WATER LINES WITH 1" THICK FACTORY PRE-MOLDED FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET. 13. ALL VALVES SHALL BE SIMILAR TO CRANE OR AMERICAN.

14. ALL CLEANOUTS TO BE INSULATED AT EACH CHANGE IN DIRECTION OF SEWER LINES. 15. ALL PLUMBING & PLUMBING FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE ILLINOIS STATE

PLUMBING CODE. 16. POLY VINYL CHLORIDE (PVC) PLASTIC PIPE AND FITTINGS SHALL CONFORM TO ASTM DESIGNATION D2665-88, INCLUDING THE APPENDIX, BEING MANDATORY, AND SHALL BE LIMITED TO SIZE 1-1/2", 2", 3" PIPE. THE SOLVENT CEMENT SHALL CONFORM TO ASTM DESIGNATION D2564-88 AND THE PLASTIC PRIMER SHALL CONFORM TO ASTM DESIGNATION F656-88 AND BE OF A CONTRASTING COLOR.

17. ALL PIPES TO BE COPPER; PROVIDE AIR CHAMBERS MIN. 24"; PROVIDE ACCESSIBLE SHUTOFF VALVES AT ALL FIXTURES; ALL PLUMBING WORK TO COMPLY W/MUNDELEIN PLUMBING CODE AND STATE OF ILLINOIS PLUMBING CODE 18. NO DRUM TRAPS.

19. PROVIDE: -24" AIR CHAMBER AT ALL RISER MAINS.

-12" AIR CHAMBER AT ALL PLUMBING FIXTURES. -SHUT OFF VALVES AT ALL PLUMBING FIXTURES AND RISERS. -NON-FREEZE SILL COCKS - VACUUM BREAKER TYPE 2. 19. NEW SANITARY SERVICE WILL BE USED.

20. NEW WATER SERVICE WILL BE USED 21. ALL TUB'S & SHOWERS NEED 2" P-TRAPS. 22. TUB. & SHOWER TEMPERATURE NOT TO EXCEED $1\,1\,5^\circ$

22. ALL HAND HELDSHOWERS NEED VACUUM BREAKERS. 23.PROVIDE BACK FLOW PREVENTION DEVICE ON ALL HAND HELD SPRAY @ TUBS.

24. INSTALL PRESSURE RELIEF VALVES ON THE HIGH PRESSURE SIDE OF THE SYSTEM, UPSTREAM OF ANY INTERVENING VALVES 25. MAX. LENGTH 1-1/2" VENT PIPING IS 10. 26. MAX. LENGTH 1/2" WATER PIPING IS 10'. 27. INSTALL METAL DRAIN PAN UNDER ALL HOT WATER HEATERS.

28. PROVIDE THERMO EXPANSION TANK FOR 119 GAL W.H. 29. FURNISH AND INSTALL GAS PIPING WITH SHUTOFF COCKS AT EACH AND EVERY APPLIANCE REQUIRING GAS, INCLUDING FURNACE, DOMESTIC WATER HEATERS, ETC. PIPING SHALL BE SCHEDULE 40 BLACK STEEL, "GRADE A" FITTINGS SHALL BE STANDARD WEIGHT,

BLACK MALLEABLE IRON OR CAST IRON SCREENED AND

| PLUMBING DIAGRAM LEGEND | |
|-------------------------|------------------------|
| SYMBOL | DESCRIPTION |
| M | WATER METER |
| | VENT LINE |
| | WASTE LINE |
| | COLD WATER SUPPLY LINE |
| | HOT WATER SUPPLY LINE |

ALL PLUMBING FIXTURES MUST HAVE SHUT-OFF VALVES INCLUDING SHOWER

ALL SHOWER COMPARTMENTS AND SHOWER-BATH COMBINATIONS SHALL BE PROVIDED WITH AN AUTOMATIC SAFETY WATER MIXING DEVICE TO PREVENT SUDDEN UNANTICIPATED CHANGES IN WATER TEMPERATURE OR EXCESSIVE WATER TEMPERATURES. THE AUTOMATIC SAFETY WATER MIXING DEVICE SHALL BE ADJUSTED TO A MAXIMUM SETTING OF 115° F AT THE TIME OF

ASSE 1016-1996 APPROVED SHOWER VALVE IS REQUIRED.

SHOWER LOOKOUT REQUIRES A 90 DROP-EAR ELL SCREWED TO WOOD

DOMESTIC WATER SHOULD BE FED OFF FIRE SYSTEM

UNUSED SECTION OF WATER SERVICE OR WATER DISTRIBUTION PIPING ("DEAD ENDS"), WHERE THE WATER IN THE PIPING MAY BECOME STAGNANT, ARE PROHIBITED. A DEVELOPED LENGTH OF MORE THAN 2 FEET SHALL BE CONSIDERED A DEAD END

THE WATER DISTRIBUTION SYSTEM SHALL BE PROPTECTED AGAINST BACKFLOW. EACH WATER OUTLET SHALL BE PROTECTED FROM BACKFLOW BY HAVING THE OUTLET END FROM WICH THE WATER FLOWS SPACED A DISTANCE ABOVE THE FLOOD-LEVEL RIM OT THE RECEPTACLE INTO WHICH THE WATER FLOWS SUFFICIENT TO PROVIDE A MINIMUM FIXED AIR GAP. WHERE IT IS NOT POSSIBLE TO PROVIDE A MINIMUM FIXED AIR GAP, THE WATER OUTLET SHALL BE EQUIPPED WITH AN ACCESSIBLE BACKFLOW PREVENTION DEVICE OR ASSEMBLY IN ACCORDANCE WITH ILLINOIS PLUMBING CODE SUBSECTION (F) OF SECTION 890.1140

TYPE-M COPPER PIPE IS PROHIBITED AND NOT APPROVED MATERIAL FOR WATER DISTRIBUTION PIPE

FLANGES CONNECTING WATER CLOSETS TO THE FLOOR MUST BE SECURED USING NONFERROUS OR DALVANIZED SCREWS. ALL FIXTURES MUST BE ANCHORED TO THE FLOOR OR WALL, WITH THE USE OF NON-COMPRESSIVE SHIMS IF NECESSARY, THEN GROUTED COMPLETE TO AFFORD A SANITARY

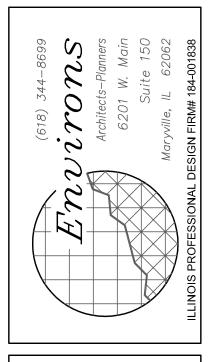
WHEN WATER MAIN PRESSURE EXCEEDS 80 P.S.I., A PRESSURE REDUCING VALVE AND A STRAINER WITH A BY-PASS RELIEF VALVE SHALL BE INSTALLED IN THE WATER SERVICE PIPE NEAR THE ENTRANCE TO THE BUILDING TO REDUCE THE WATER PRESSURE TO 80 P.S.I. OR LOWER, EXCEPT WHERE THE WATER SERVICE PIPE SUPPLIES WATER DIRECTLY TO A WATER PRESSURE BOOSTER SYSTEM, AN ELEVATED WATER TANK, OR TO PUMPSPROVIDED IN CONNECTION WITH HYDROPNEUMATIC OR ELEVATED WATER SUPPLY TANK SYSTEM. SILL COCKS AND OUTSIDE HYDRANTS MAY BE LEFT ON FULL WATER,

THE MINIMUM CONSTANT WATER SERVICE PRESSURE ON THE DISCHARGE SIDE OF THE WATER METER SHALL BE AT LEAST 20 P.S.I., AND THE MINIMUM, CONSTANT WATER PRESSURE AT EACH FIXTURE SHALL BE AT LEAST 8 P.S.I. OR THE MINIMUM RECOMMENDED BY THE FIXTURE MANUFACTURER

WHEN A BOOSTER PUMP EXCEPT THOSE USED FOR FIRE PROTECTION IS USED ON AN AUXILIARY PRESSURE SYSTEM, THERE SHALL BE INSTALLED A LOW-PRESSURE CUT-OFF SWITCH ON THE BOOSTER PUMP TO PREVENT THE CREATION OF PRESSURES LESS THAN 5 P.S.I. ON THE SUCTION SIDE OF PUMP. A SHUT-OFF VALVE SHALL BE INSTALLED ON THE SUCTION SIDE OF THE WATER SYSTEM AND WITHING 5 FEET FROM THE PUMP SUCTION INLET, AND A PRESSURE GAUGE SHALL BE INSTALLED BETWEEN THE SHUT-OFF VALVE AND PUMP

WHEN THE WATER PRESSURE EXCEEDS 80 P.S.I. AT ANY PLUMBING FIXTURE, A PRESSURE REDUCING VALVE, PRESSURE GAUGE AND A STRAINER WITH A BY-PASS RELIEF VALVE SHALL BE INSTALLED IN A WATER SUPPLY PIPE SERVING THE FIXTURE TO REDUCE THE WATER PRESSURE AT THE FIXTURE TO

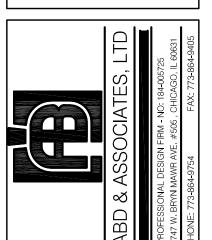




JOB NO. 1 3 0 2 2

DECEMBER 11, 2013 REVISED: /1\ FEBRUARY 20, 2014

/2\ AUGUST 18, 2014



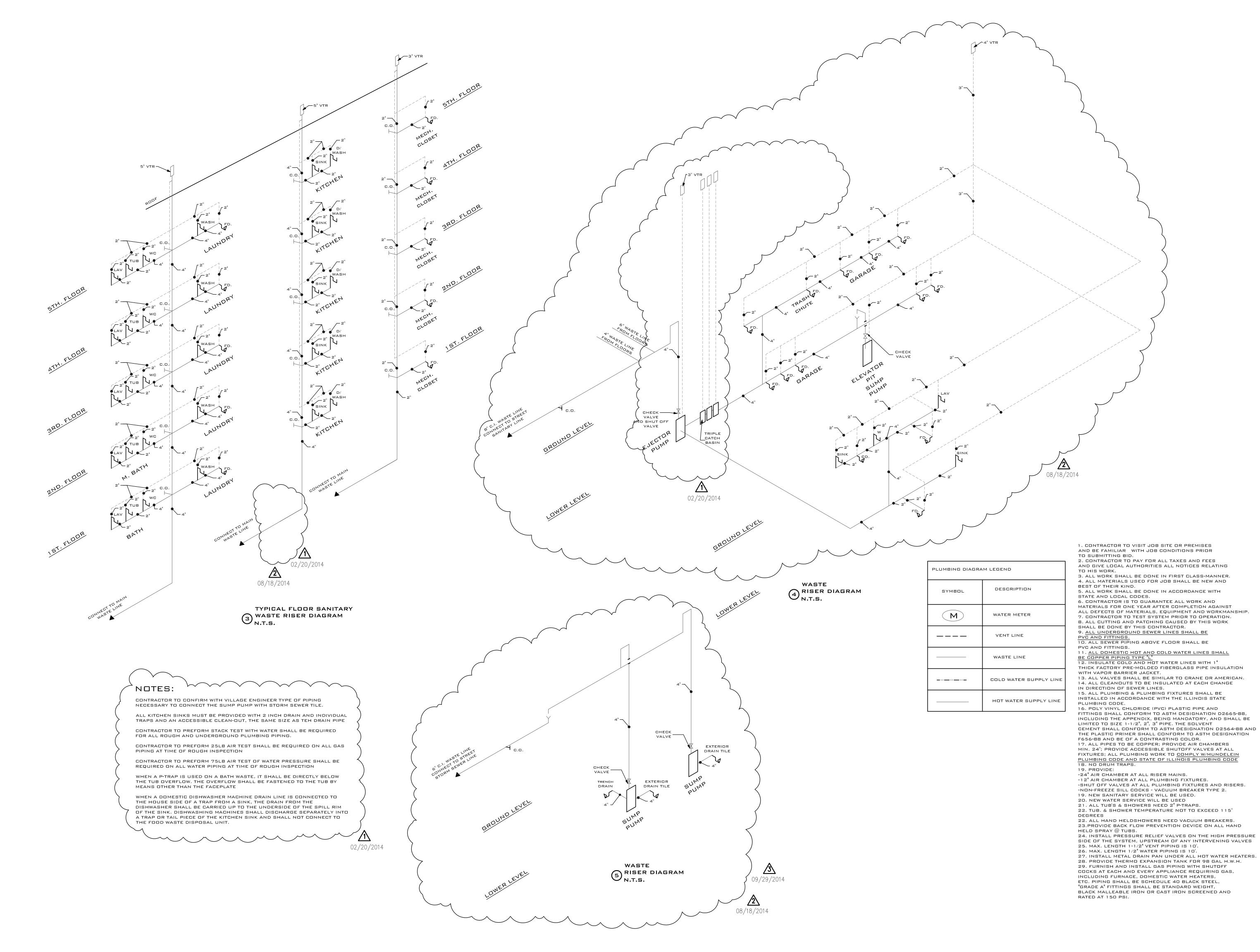


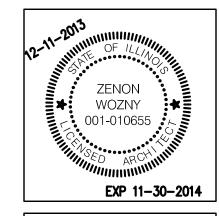
SHRINAY CORPORATION WWW.SHRINAY.COM TEL - 847-754-1064

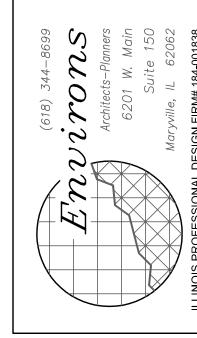
> RTMENT \forall

压 AR SQU

R



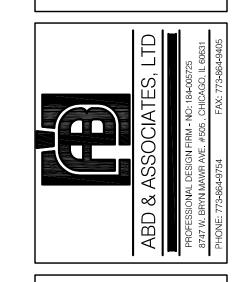




JOB NO. 1 3 0 2 2

DECEMBER 11, 2013

FEBRUARY 20, 2014
AUGUST 18, 2014





WWW.SHRINAY.COM

TEL - 847-754-1064

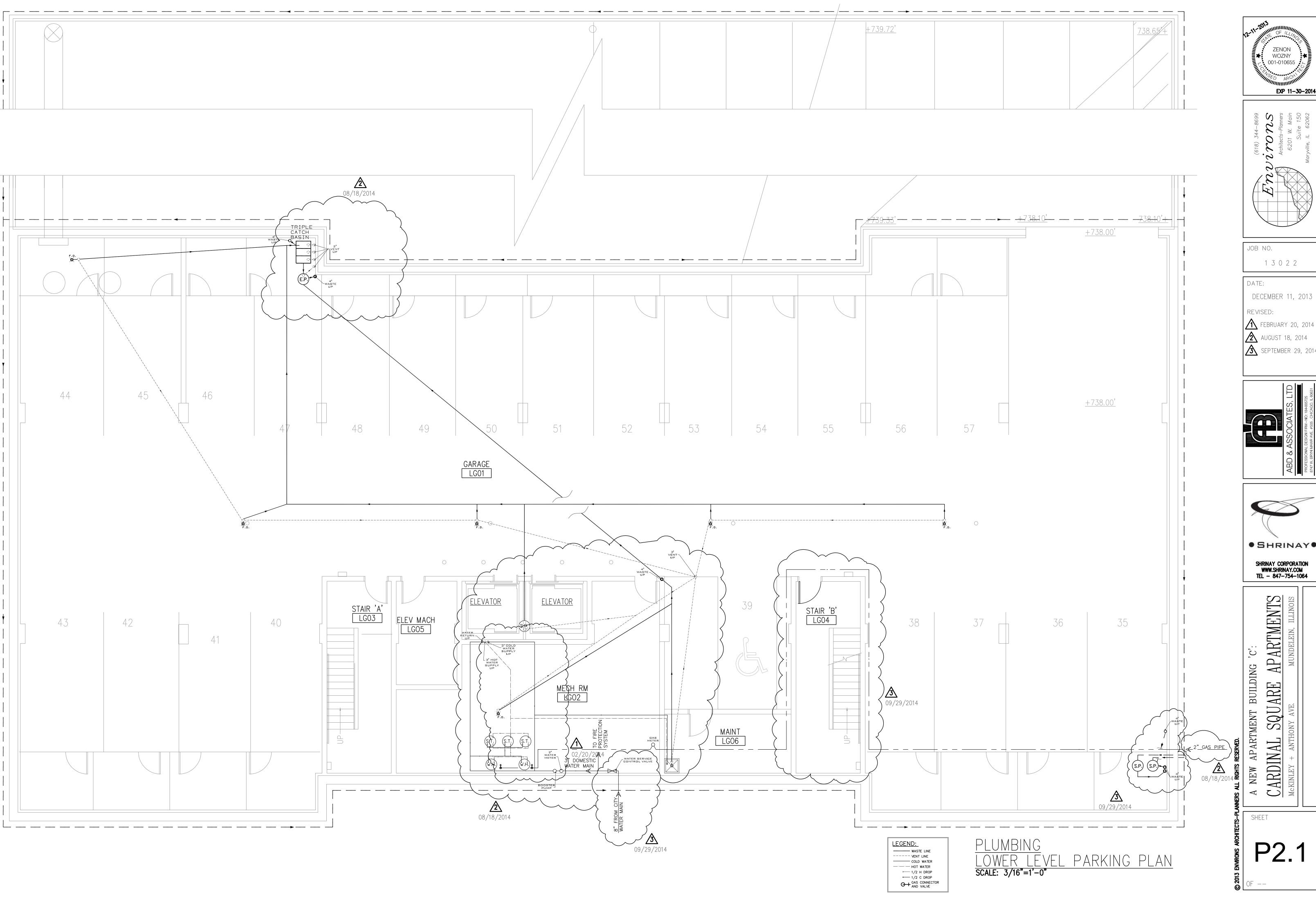
ARTM Д \forall

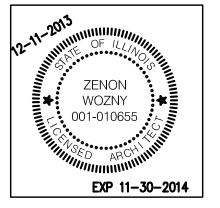
BUILDING ARE

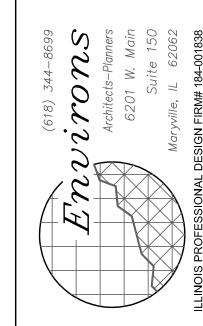
SOU APARTMENT RD

 \triangleleft

SHEET

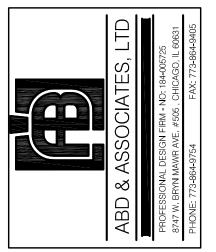




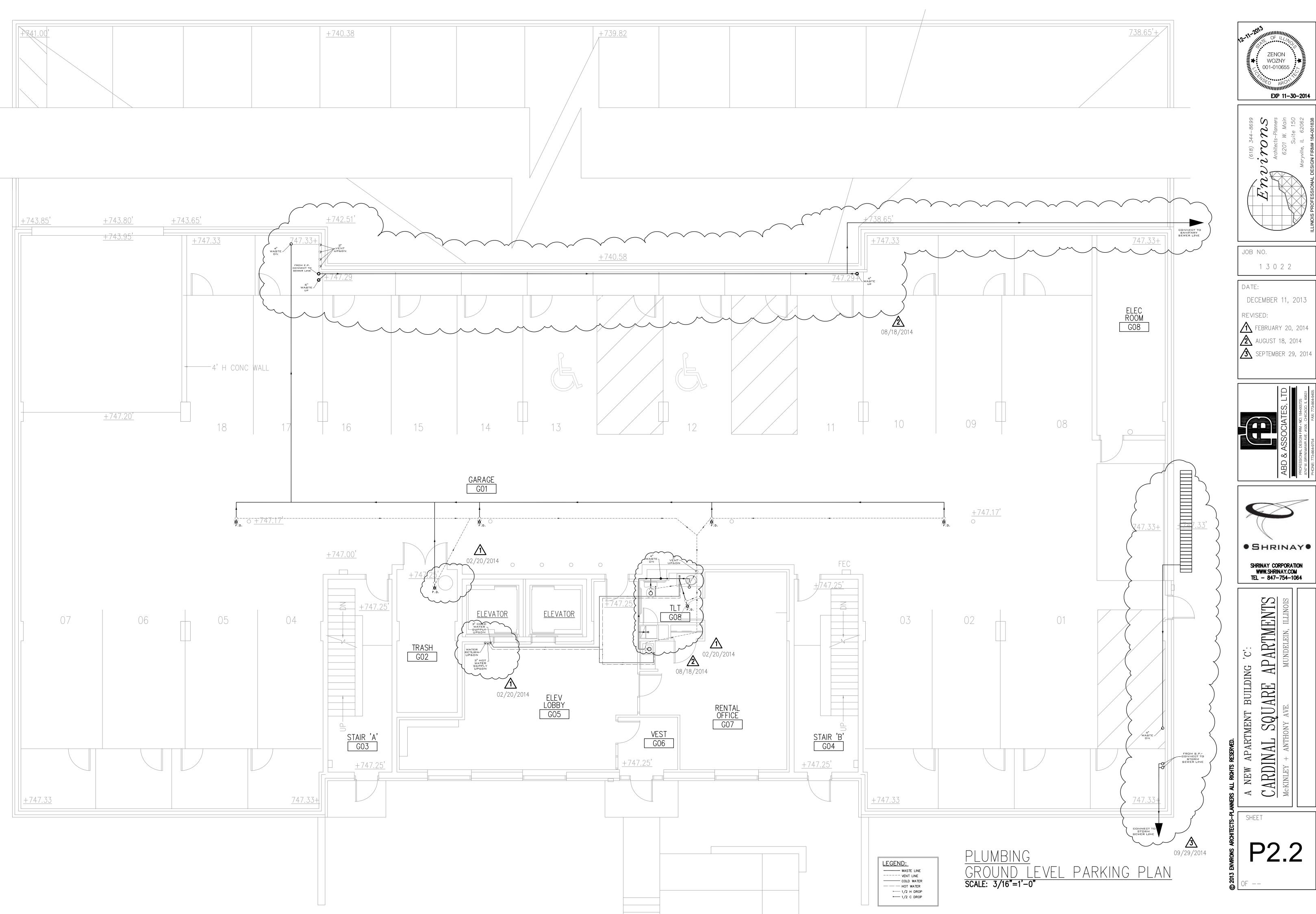


DECEMBER 11, 2013

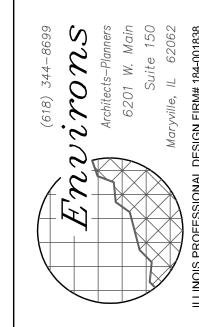
3 SEPTEMBER 29, 2014



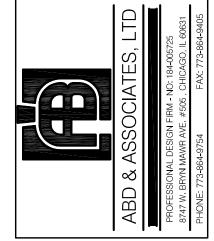




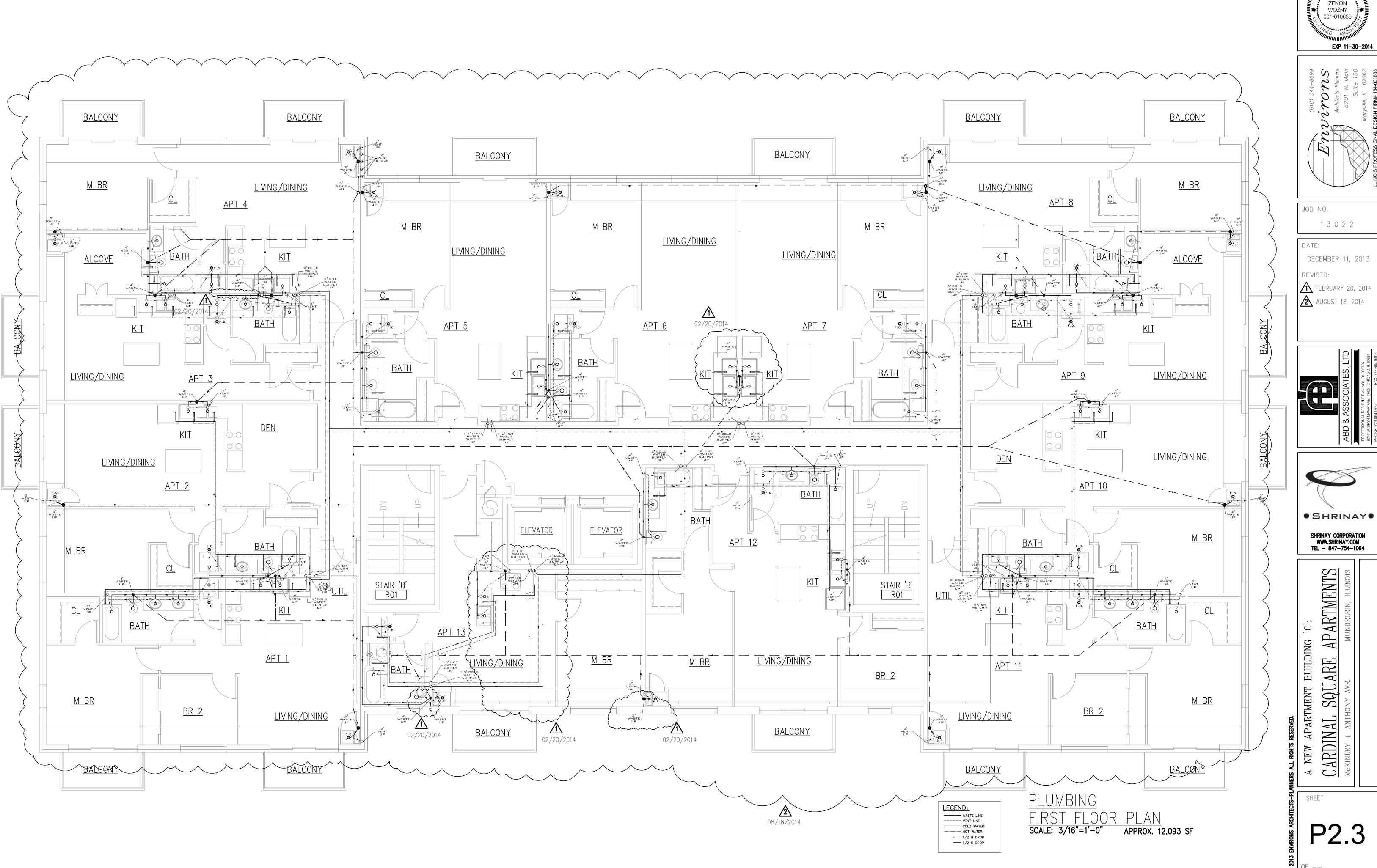


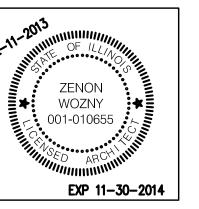


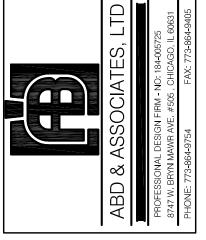
DECEMBER 11, 2013



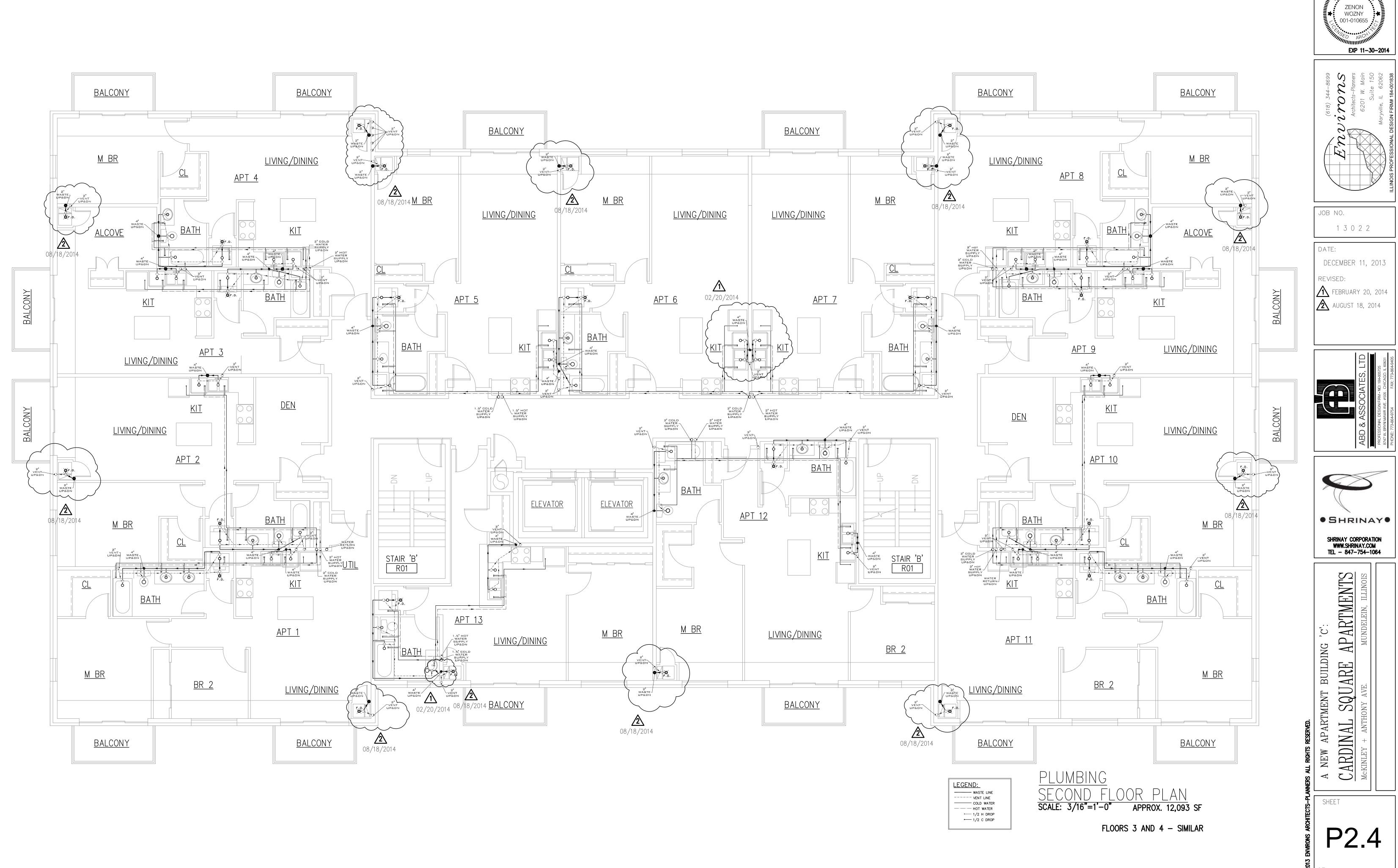


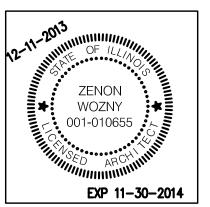












DECEMBER 11, 2013



