

1. THE ENTIRE INSTALLATION SHALL CONFORM TO THE PRINCIPALS AND PRACTICES OF THE NEW YORK STATE 2015 PLUMBING CODE.  
ALL HEATING EQUIPMENT, ACCESSORIES AND APPURTENANCES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH  
NEW YORK STATE PLUMBING CODE 2015
2. WORKMANSHIP - PROVIDE NEAT MECHANICAL APPEARANCE. CONCEAL ALL PIPING IN FINISHED AREAS.
3. MATERIALS - PROVIDE THE BEST-ACCEPTED INDUSTRY STANDARD EQUIPMENT AND MATERIALS.
4. GUARANTEE - CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS, AND PERFORMANCE FOR A PERIOD  
OF ONE YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION AND ACCEPTANCE OF THIS WORK. THE  
CONTRACTOR SHALL PROMPTLY CORRECT, WITHOUT COST TO THE OWNER, SUCH DEFECTS UPON NOTICE FROM THE  
OWNER TO DO SO.
5. CODES, PERMITS, INSPECTIONS - COMPLY WITH PLUMBING CODE REQUIREMENTS OF THE MUNICIPALITY IN WHICH  
LOCATED, THE BUILDING CODE OF NEW YORK STATE AND PLUMBING CODE OF NEW YORK STATE. MATERIALS PER CODE  
HERE WITHIN MENTIONED, FURNISH PERMIT AND CERTIFICATE OF FINAL INSPECTION FROM MUNICIPALITY.  
CONTRACTOR SHALL PAY ALL FEES AND INSPECTIONS AND SAME SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
6. ROOF PENETRATIONS - ALL ROOF PENETRATIONS AS REQUIRED FOR PLUMBING VENTS, SHALL BE MADE BY  
THE PLUMBING SUBCONTRACTOR. PLUMBING CONTRACTOR SHALL DO ALL CUTTING, FITTING, AND PATCHING  
NECESSARY AS A PART OF HIS CONTRACT TO PROVIDE FOR HIS PIPING EQUIPMENT.  
THE PLUMBING CONTRACTOR SHALL LAYOUT ALL PLUMBING FACILITIES IN ADVANCE OF POURING SLABS AND  
OR LAYING OUT WALLS OR CHASES.
7. TESTING - LABOR, MATERIAL, INSTRUMENTS AND POWER REQUIRED FOR TESTING SHALL BE FURNISHED BY THIS  
CONTRACTOR.
8. ALL DEFECTIVE WORK SHALL BE PROMPTLY REPAIRED OR REPLACED AND THE TESTS SHALL BE REPEATED  
UNTIL THE PARTICULAR SYSTEM AND COMPONENT PARTS THEREOF RECEIVE THE APPROVAL OF THE ARCHITECT.
9. SUBCONTRACTORS SHALL COORDINATE WORK WITH ALL OTHER TRADES.
10. THE CONTRACTOR SHALL PROVIDE SHUT OFF VALVES AT ALL FIXTURES AND APPLIANCES.
11. THE CONTRACTOR SHALL INSULATE HOT AND COLD WATER SUPPLIES, PROVIDE NON- FREEZE OUTDOOR HOSE  
BIBBS, (1 LOCATION REQUIRED).
12. INSULATE WATER SERVICE AND PROTECTED FROM FREEZING WHERE EXPOSED IN UNHEATED SPACES, I.E. BASEMENT.

T. PROVIDE SOLID METAL PIPE FOR DRYER VENT TO EXTERIOR. DO NOT INSTALL SCREEN ON DRYER VENT. PROVIDE ENERGY EFFICIENT DRYER VENT (WITH FLOATING SHUTTLE).



K--2" Cleanout  
L--Sanitary Tee  
M--2" waste Line  
N--2" Waste Line  
O--2" Cleanout  
P--3" vent Thru Roof  
Q--Sanitary Cross  
R--Trap Arm  
S--3" Waste Line  
T--2" Shower Trap  
U--Tub Trap  
V--PVC--90 deg Short  
Wep  
W--3"x2" Side Inlet "T"  
X--2" Way Cleanout



3. APPLICABLE CODES - THE ENTIRE INSTALLATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE PARTIES HAVING JURISDICTION:
  - A. NATIONAL ELECTRICAL CODE AND LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION.
  - B. STATE CODES, LOCAL ELECTRICAL CODES AND OTHER REGULATIONS OF MUNICIPALITY.
2. PERMITS - CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY LOCAL UTILITY COMPANY ORDINANCES. CONTRACTOR SHALL COOPERATE WITH UTILITY COMPANIES ON ELECTRIC INSTALLATIONS.
3. CERTIFICATE OF INSPECTION - UPON COMPLETION, THE ELECTRICAL CONTRACTOR SHALL FURNISH A CERTIFICATE OF FINAL INSPECTION TO THE OWNER FROM THE ELECTRICAL UNDERWRITERS OF N.Y. LLC COVERING ALL ELECTRICAL INSTALLATIONS IN THESE PLANS AND IN THIS CONTRACT. THE COST OF SAID INSPECTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
4. ELECTRIC UTILITY COMPANY STANDARDS - ENTIRE INSTALLATION SHALL CONFORM TO ALL RULES AND REGULATIONS FOR SERVICE AS ISSUED BY THE UTILITY COMPANY.
5. LAWS, ORDINANCES AND FEES - THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAXES, FEES AND OTHER DOCUMENTS AND OBTAIN ALL NECESSARY CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) WHICH ARE NECESSARY TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS WHETHER OR NOT SHOWN ON THE DRAWINGS AND / OR SPECIFIED. WITH SUBMISSION OF BID, THE ELECTRICAL CONTRACTORS SHALL GIVE WRITTEN NOTICE TO THE ARCHITECT OF ANY MATERIALS OR EQUIPMENT BELIEVED INADEQUATE OR UNSUITABLE IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION AND ANY NECESSARY ITEMS OF WORK OMITTED. IN THE ABSENCE OF SUCH WRITTEN NOTICE, IT IS MUTUALLY AGREED THAT THIS CONTRACTOR HAS INCLUDED THE COST OF ALL REQUIRED ITEMS IN HIS PROPOSAL AND THAT HE WILL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE NEW BRANCH CIRCUITS. NEW LIGHTING, NEW APPLIANCE HOOK-UPS REQUIRED FOR THIS PROJECT.
6. O.S.H.A. - ALL WORK ON THIS PROJECT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH FEDERAL STATUTES SUCH AS THE OCCUPATIONAL HEALTH ACT.
7. MATERIALS - ALL MATERIALS SHALL BE NEW AND COMPLY WITH THE BEST ACCEPTED INDUSTRY STANDARDS AND SHALL BEAR THE UNDERWRITERS' LABORATORIES(UL) SEAL OF APPROVAL. ALL MATERIAL SHALL BE OF SUCH QUALITY AND DIMENSIONS SPECIFIED AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN STANDARDS ASSOCIATION. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION I.E.E.E. AND UNDERWRITERS' LABORATORIES.
8. APPEARANCE OF WORK - ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT APPEARANCE AND LEAVE THE INSTALLATION IN PROPER WORKING ORDER
9. GUARANTEE - THE CONTRACTOR SHALL REPLACE ANY WORK OR MATERIALS WHICH DEVELOPS DEFECTS FROM ORDINARY WEAR AND TEAR WITHIN ONE YEAR OF THE DATE OF THE FINAL CERTIFICATE OF APPROVAL. REPLACEMENT SHALL BE MADE WITHOUT COST TO OWNER.
10. LAYOUT, CUTTING PATCHING - THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL CONDUITS, BOX LOCATIONS, ETC. IN ADVANCE OF POURING CONCRETE OR INSTALLATION OF WALLS. ANY CUTTING OR PATCHING REQUIRED BECAUSE OF THE CONTRACTORS NEGLIGENCE TO PROPERLY LAY OUT THE WORK SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE APPROVED BY THE ARCHITECT TO ASSURE A WORKMANLIKE JOB. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND SHALL CONTACT THE ARCHITECT IF CONFLICTS ARISE.
11. THE ELECTRICAL CONTRACTOR SHALL ALSO FURNISH SAMPLES OF WIRE, CABLE, PLUG RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES AND OTHER SMALL PARTS AS REQUESTED BY THE ARCHITECT.
12. GENERAL PURPOSE BRANCH CIRCUITS:

DESCRIPTION - INSTALL GENERAL PURPOSE BRANCH CIRCUITS AS SHOWN ON THE SKETCH DIAGRAMS.
13. WIRING METHOD - ALL GENERAL PURPOSE BRANCH CIRCUITS SHALL BE INSTALLED AS SHOWN ON DRAWINGS, NO WIRE SIZE SMALLER THAN #12 AWG COPPER SHALL BE USED. DO NOT RUN EXPOSED WIRING IN FINISHED SPACES.
14. LOCATION OF OUTLETS:

WALL SWITCHES: 4'-0"

CONVENIENCE OUTLETS 3'-8" AT COUNTERS

CONVENIENCE OUTLETS 1'-6"
15. PROVIDE SEPARATE CIRCUITS EACH FOR DISHWASHER, GARBAGE DISPOSAL, REFRIGERATOR WASHER, DRYER, F.A.U. AND MICROWAVE OVEN.
16. SWITCH OUTLETS SHALL BE HALF HOT.
17. BATHROOM AND KITCHEN FANS: INSTALL LOCAL EXHAUST SYSTEMS IN ALL BATHROOMS AND IN THE KITCHEN TO MEET THE REQUIREMENTS OF SECTION 5 OF ASHRAE STANDARD 62.2-2007. DESIGN AND INSTALL FAN DUCTS TO MEET THE REQUIREMENTS OF SECTION 7 OF ASHRAE STANDARD 62.2-2007. EXHAUST TO OUTDOORS AND ALSO USE ENERGY STAR LABELED BATHROOM EXHAUST FANS.
18. FOR EVERY BATHROOM EXHAUST FAN, INSTALL AN OCCUPANCY SENSOR OR AN AUTOMATIC HUMIDISTAT CONTROLLER OR AN AUTOMATIC TIMER TO OPERATE FAN FOR A TIMED INTERVAL AFTER OCCUPANT LEAVES THE ROOM OR A CONTINUOUSLY OPERATING EXHAUST FAN.
19. ALL FIXTURES, OUTLETS, RECEPTACLES, ETC., PENETRATING FIRE ASSEMBLIES SHALL BE RATED AND INSTALLED TO MEET THE REQUIREMENTS OF THE BUILDING CODE. OUTLET BOXES ON OPPOSITE SIDES OF FIRE ASSEMBLY WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24".
20. ALL EQUIPMENT INSTALLED OUTDOORS AND EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
21. PROVIDE GROUND FAULT CIRCUIT INTERRUPTERS, G.F.I.C., AT ALL BATHS, GARAGES, LAUNDRY AREAS, OUT DOOR AND WET AREA OUTLETS. ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT - PHASE, 15 AND 20 AMP RECEPTACLE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S).
22. EACH CONDUCTOR OF EACH SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH O.S.H.A.
23. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C., ART. # 250. PROPER GROUND REQUIRES #4 COPPER WIRE, 20'-0" LONG, EMBEDDED INTO CONCRETE AND PROVIDE BOND TO GAS OR WATER LINE.
24. ALL APPLIANCES AND LIGHTING FIXTURES SHALL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER THIS WORK.
25. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TR) TYPE AS PER NEC.
26. ENERGY CODE: 404.1 MINIMUM OF 75% OF INSTALLED LIGHTING FIXTURES WILL BE HIGH EFFICIENCY LED OR EQUAL.
27. ELECTRICAL PANEL SHALL BE GROUNDED TO THE FOUNDATION FOOTING WITH #4 BARE COPPER WIRE ENCASED IN CONCRETE 2" MIN. AND CLAMPED TO #4 CONTINUOUS HORIZONTAL REBAR.

