This is the process we followed for the Watered Garden PBL 2013 By Tacobi Bruce

We take pride in helping the community of Watered Gardens; I can personally say what a wonder it has been helping them. I have learned a lot about what Watered Gardens stands for, it’s for the community and helping out others, it’s a place where people or families with hard times can come to too get some relief. So I take pride in the fact I helped out in the making to the upgrades into the Watered Gardens Community. We the students of HVAC have helped by using the knowledge we learned from our teacher Mr. Tyrrell, The knowledge we used is as follows; The skills on how to put together Sheet metal and hanging it, We also placed in the scaffolding along with the sheet metal, we placed the equipment into their appropriate places, we came up with an outstanding design, you worked together with welding class, but we also brazed the lines leading to the condenser/ compressor and leaving it, we also placed the bath vents into the appropriate locations, as mentioned we put in the Freon lines ahead of time to make sure our work was ready for brazing and that we had enough to lead to and from the indoor unit to the outdoor unit, more things we worked with was insulation; we insulated the suction lines as required by OSHA, and EPA, We fed the thermostat wires to the board to a location where it was best suited, We also put in the condenser wiring to the disconnect so that the units would be ready for power to be fed to them, and lastly we also did some painting to make things look nice and clean,

First off we worked together by forming the schematics and plans at which we would do our job, We worked a lot with housing schematics making sure we would not intersect with anything supporting the house, or indoor wiring, we also thought of ways at which, while we were designing a pace, at which we could work with the other companies, such as the water and electricity companies, making sure we didn’t make there jobs harder.

Second, after the designs were met with regulations and everything was permitted and the O.K. from the owner of Watered Gardens we began making preparations to take on this job. After preparations we moved the indoor units into their selected positions along with the A-Coils.

Third step, we split the class into two and had half the class hard at work putting up scaffolding and the sheet metal with a couple of helpful volunteers, even though we learned a lot about sheet metal and ways of bending, and putting it together we still had it ordered as we felt it was more adequate. The other half of the students worked on digging up holes and placing/cementing support beams, reason for this is that we decided to lift the outdoor units off the ground and give them some extra cover, since we wouldn’t want them to get damaged. After the sheet metal was done we said good-bye to our helpful companions and we continued our work.

The Fourth step we marked places where we could feed the Freon lines w/ the condenser thermostat wire, from the outdoor units to the indoor units, then on the inside we followed the lines bending where they needed be making accurate measurements and double checking our work, while on the outside we cut the holes into the walls so we could feed the lines.

The fifth step we came in and had welding weld a metal frame we had made, measured to specification needs, we also had Auto Collision paint it a solid color, with this new platform made we placed the condenser’s on there new built frames.

The Sixth step we started brazing the Freon lines, not all Freon lines were ready for brazing, and some are still not done, after the low pressure suction lines cooled off we then insulated them to reduce Freon loss, before I forget to mention we also made sure to measure and put in the filters for the high liquid lines, in this step we also did the honor for painting the steal beams supporting the newly placed frame and units. Another step we took in this phase we also connected the condenser wiring to the disconnect.

            There is still plenty to do, even now we are not nearly done, but I can say it sure is a wonder, working together with my classmates and having fun. I learned the many ways and different sets of skills used in doing this job and am looking forward to the future where I can use these skills in the job field I have selected.

Sincerely,

Tacobi L. Bruce

Watered Gardens Bruce Tacobi