

Organ Project Progress Report – Spring 2010



A forest of pipes! Smoke damaged pipes salvaged from St. Mark's Church in Shakopee wait in line after repainting in the Richmond Body Shop.

A view of the console scaffold after assembly in the shop showing the 3 manual keyboards and various connecting linkages for the key action.



One of the Great Division roller frames standing on its side. Rollers transfer the pulling motion of the manual keys sideways within the organ case making a connection between the keys and the valves that direct air into the pipes.

A pneumatic pouch that controls the entry of air into a pedal pipe. This valve is about the size of a silver dollar. When air is released out of the small hole at the bottom center, the valve collapses downward to permit air to enter the pipe.



Pallets made of standing grain sugar pine. Pallets are rectangular valves with sheepskin gaskets glued on the underside. Each key at the keyboard is connected to a different pallet in the windchest. The pine used for these pallets was stored for twenty years to properly season.

Large wood pipes made of Poplar and Oak laying flat in storage.



Playing action parts and wood linkages (called trackers).

A 14 volt electrically controlled stop knob that allows the organist to engage the stop knobs automatically. Various stop combinations are stored in a computer based memory bank and turned on and off by small numbered buttons above and below the keyboards.



A few of over 2500 handmade pipes stored in trays awaiting placement in the organ. These metal pipes are made of lead and tin and can play for hundreds of years if properly cared for. (The older they get the better they sound!)

A color coded 3D look inside the organ case. The blue components are part of the air system of the organ. The keyboards area the left. Some large wood pipes can be seen on their windchests. Brown colors show the wooden framework of the lower organ case.

