

## MATERIAL SPECIFICATION

1. New metal flue pipes will be provided as specified in the tonal specification. Scales and metal composition will be determined by the builder to secure the best tonality. Case pipes consisting of the 8' great Principal will be constructed of polished copper for pipes 1-7 (Center Tower) and other pipes in the case will be of polished zinc with 75% tin mouths and 75% tin for any pipe smaller than 2' C. Enclosed new pipes 4' C through 4' F# will be tubed with spotted metal feet, mouths, 1/4 body lengths with zinc for the top portion of the pipe. All remaining new enclosed metal flue pipes will be constructed of 50% tin and 50% lead.
2. New solid state relay system by Peterson Electro-Musical Products to control all windchests key, stop functions and coupling.
3. One new fused AC/DC rectifier for providing power to the instruments electro-pneumatic action.
4. Console will be rewired for operation with the solid state relay and new stop keys will be provided to reflect the new specification.
5. At least three new reservoirs will be provided for the various wind requirements of the instrument. The organ builder may elect to use more reservoirs if felt necessary for artistic reasons.
6. New electro-pneumatic pitman and unit windchests for all manual division pipes and the pedal 8' Principal unit. Windchests will be constructed of poplar for all ranks. Rack boards will be of voidless plywood. All windchests in Aeolian-Skinner style. Leather pouches and primary pneumatics will have chrome content greater than 3.0% and treated with silicone for additional protection. 120 ohm chest magnets will be used on all windchests. New walkways for service in the swell and new building frames for the swell will be provided. Organ case and supports for the case will be provided. Case will be constructed of oak.
7. New wind lines will be provided as required. All new cables between solid state relay and windchests will be provided.

CONSTRUCTION DETAILS TO BE ACCOMPLISHED  
BY FIRST CHRISTIAN CHURCH, CHANUTE, KANSAS

1. Renovation of the existing organ chamber to include the following:
  - a. Walls and ceiling will be surfaced with two sheets of dry wall finished and painted with two coats of white enamel paint.
  - b. Chamber floor will be cleaned and painted with two coats of gray floor paint.
  - c. Close the existing swell shade opening and finish interior walls to the above specification. Insulate between studs.
  - d. Provide new opening in the front of the chamber to the organ builders specification. Provide grillwork to cover the new chamber opening. The existing grill can be moved and used if desired. Organ builder will approve type of grill cloth. Samples can be provided.
  - e. Provide new wall within organ chamber to hold the swell shades. The entire chamber will not be under expression. Walls finished as described above and provided with insulation between studs to achieve better swell effect. Location of shade opening will be provided by the organ builder. Provide 2' x 3' access door into front of shade area for tuning unenclosed pedal Principal and pipes in the back of the organ case.
  - f. Provide at least 5' high door opening into chamber near existing chamber opening.
2. Electrical work required as follows:
  - a. 3" conduit for organ cable if the console is moved to another location.
  - b. Control wiring and switch provided for the blower and rectifier if the console is moved.
  - c. Organ Chamber to be provided with fluorescent lighting with switch by access door. Also provide two 110 VAC duplex outlets in chamber that are unswitched.
3. Misc.
  - a. Existing organ cases will be moved by the church if desired.

PARTS RETAINED NOT COVERED BY WARRANTY

1. Console including key actions and combination action.
2. Blower
3. Swell shades and swell shade engine.
4. Offset windchest for pipes 1-12 of the 16' Holz Gedeckt unit.
4. Chime action and chime tubes.