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Pipe Organ

PIPE ORGAN

*Church of the Divine Child
Dearborn, Michigan.*

1. GENERAL REQUIREMENTS

a-The following general requirements which are bound herewith shall apply to all work under this division of these specifications the same as if herein repeated in their entirety.

General Conditions
Supplementary General Conditions
Instructions to Bidders-Special Conditions

2. SCOPE

a-The work to be done under these specifications includes all labor, material, services and equipment necessary for and incidental to the proper completion of the pipe organ work in this church building, leaving same in proper working order upon completion, excepting only such work hereinafter called for to be provided and installed by others.

b-The work under these specifications is not limited to but shall include the following.

All required building frames.
Wind reservoir.
Organ Chest
Expression Boxes
Console
Organ Bench
Blower
All metal and wood pipes.
All necessary shop and installation drawings.

3. WORK BY OTHERS AND NOT INCLUDED IN ORGAN CONTRACT

a-Organ chamber ready to receive organ installation.

b-3/4 inch conduit and 3 inch conduit from console location to organ chamber have been installed by owner.

c-220 volt three phase outlet box has been installed by Owner.

d-Electric current will be provided by Owner.

e-Electrical connection to organ blower will be provided by Owner.

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4. ORGAN - GENERAL

a-In general this pipe organ shall consist of twenty-one stops, 23 ranks of pipes, all necessary supplementary parts, console, bench, blower, blower motor and starter, etc., to make the installation complete.

b-Organ shall be constructed to fit the organ chamber as shown on attached drawings and shall be in one section. Console shall be detached from organ and located in choir loft as shown on drawings.

c-All exposed woodwork of console, organist's bench, and pedal board shall be clear white oak, to have a lacquer finish to match existing finish of building. Interior finish such as key frame shall be clear American Walnut with oil-lacquer finish. Music rack to be tempered plate glass, key boards to be without cover.

d-All exposed oak shall be finished in a durable lacquer finish standard with the manufacturer; but samples of such finishes shall be submitted to the Architect for approval.

e-The action shall be electro-pneumatic with an all electric console; the stops and couplers shall be drawn by tablets placed above the upper key-board. Console shall be equipped with lock-switch for the blower starter. Provide all connections.

f-The organ contractor shall supply a blower and motor of ample capacity with starter, suitable for his equipment and subject to approval of Architect. The starter switch to be furnished by the organ contractor. The wiring from outlet to blower motor will be furnished by Owner's electrician. Motor to be 220 volt three phase, A.C.

GREAT ORGAN (unenclosed)

1 Prinzipal	8	56
2 Bordum	8	56
3 Oktav	4	56
4 Rohrflöte	4	56
5 Blockflöte	2	56
6 Mixtur IV	1-1/3	224

SWELL ORGAN (enclosed)

7 Salizional	8	56
8 Salizional Céleste GG	8	49
9 Rohrflöte	8	56
10 Prinzipal	4	56
11 Spitzflöte	4	56
12 Oktav	2	56
13 Scharf IV	2/3	224
14 Trompete	8	56
Tremulant		

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PEDAL ORGAN

15 Prinzipal	16	32
16 Subbass	16	32
17 Oktav	8	32
18 Pommer	8	32
19 Choralbass	4	32
20 Mixtur III	2	96
21 Posaune L/2	16	32

COUPLERS

Great to Pedal

Swell to Pedal

Swell to Great 8' and 4'

Swell to Swell 16' and 4' J.L.

COMBINATION PISTONS
(hold-set type)

Great	1,2,3, (thumb)
Swell	1,2,3, (thumb)
Pedal	1,2,3, (thumb)
General	1,2,3, (toe)

General Cancel

REVERSIBLE TOE PISTONS

Great to Pedal

Swell to Pedal

Full Organ

BALANCED PEDALS

Crescendo on all stops and couplers

Swell expression

INDICATOR LIGHTS

Crescendo

Wind

Full Organ

ORGAN CONSTRUCTION

5. GENERAL

a-The various parts shall be assembled in such a manner as to assure a free egress of tone, and easy access for regulating and tuning.

b-The material used in the construction shall be first quality. All lumbers shall be carefully seasoned, dried and stress relieved in automatic dry kilns.

6. BUILDING FRAMES

a-The building frames for each chest shall be of selected material having ample strength and shall be reinforced with cross bars to assure utmost rigidity.

7. WIND RESERVOIRS

a-Wind reservoir shall be single fold type, stoutly framed and double leathered, and of size to supply fullest legitimate demand. Wind pressure shall be obtained by springs and (if necessary) by weights suspended on the interior of the reservoir. Concussion bellows shall be placed wherever necessary.

8. ORGAN CHEST

a-Organ chests shall have a valve for each pipe (except mixtures) and shall be of improved "Pitman" type action. All punches shall be made of high grade lambskin with valves easily accessible for adjustment and repairs.

9. EXPRESSION BOXES

a-Expression boxes shall be glued-up stock (not paneled) 1-1/8" finish; the shutters insulated against sound, held in the frame by pin bearings, felt bushed to prevent squeaking. One edge of each shutter to be felted to insure effective expression.

10. CONSOLE

a-Console shall be of first quality cabinet work. All parts of the mechanism shall be designed so as to be easily accessible for regulating. All moving parts shall be well brushed with felt. All manual keyboard shall be equipped with improved tracker touch. Both manual and pedal contacts will be of the roller contact type. Both vertical and horizontal contacts shall be of heavy gauge sterling silver with ample contact pressure to reduce resistance at the joint. A device shall be provided that will insure the vertical contact to be wiped clean before the horizontal contact on the roller meets it, thus assuring proper contact.

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All measurements and layout of the console shall be in accordance with the recommendations of the American Guild of Organists. Pedal board shall be concave and radiating and shall be in accordance with the measurements recommended by the American Guild of Organists. The pedal naturals shall be of solid first quality maple, and the sharps of black plastic.

b-The action shall be all electric.

c-Consult with Architect before placing console in Choir loft.

11. ORGAN BENCH

a-The organ bench shall be of sturdy construction with all exposed parts of clear white oak and of design standard with the manufacturer. Finish of bench shall match that of the console, to be as hereinbefore specified.

12. BLOWER

a-The blower to be of ample capacity for a 17 stop organ. 220 volts, 3 phases, 60 cycles. The blower to be mounted on 2" of cork and be well insulated against sound. To be set in its own box. Provide proper starter, Blower, etc., to be as recommended by organ contractor and to be submitted to Architect for approval.

13. METAL PIPES

a-Metal pipes shall be made of an alloy of tin and lead, called "spotted metal". The mouths and tuning pieces of all zinc pipes shall also be made of spotted metal. Pipes in zinc shall not extend further up the compass of any stop than tenor C. (i.e. approximately 4 feet in length) and shall be of such gauge and weight as to prevent imperfect tone. All pipes of normally open registers shall be full length and not capped in the bass. All zinc pipes shall be washed in a special preparation and given a coat of metal lacquer to protect them from oxidation.

14. WOODEN PIPES

a-Wooden pipes shall be made of first quality pipe lumber, glue-sized inside and lacquered to protect them against moisture. All pipe feet of less than 3/4" base shall have metal toes, and all pipes having feet larger than 3/4" base shall be fitted with special wind regulators.

15. VOICING

a-All pipes shall be voiced with great care by experienced organ craftsmen who shall give each stop its own individual character, and at the same time, assure that it contributes to a well balanced ensemble.

16. INSPECTION AND TESTS

a-The organ shall be completely assembled in the factory and every portion shall be carefully inspected and tested for possible defects by men who are specialists in this line of work.

b-Organ shall be carefully installed in the field, shall be left clean, in true tune and in first class operating order.

c-It shall carry with it a factory signed warranty against all defects of material, workmanship and installation guaranteeing the providing and replacement of such defective material, workmanship and/or installation. This guarantee to run for one year from date of completion and acceptance.