SECTION 16050 – PROVISIONAL

EQUIPMENT GENERAL REQUIREMENTS

Provisional Specification Summary:

1.1 – Update text as shown.
1.2 – Update text as shown.
1.2.02 – Update text as shown.
1.3 – Update text as shown.
1.4.03 – Delete text as shown.
1.4.05 – Delete text as shown.
1.4.06 – Delete text as shown.
1.5.01 – Update text as shown.
2.1 - Delete text as shown.
2.2.05 – Delete text as shown.
2.2.06 – Delete text as shown.
2.2.07 – Delete text as shown.
2.3.04 – Delete text as shown.
2.3.07 – Delete text as shown.
2.3.08 – Delete text as shown.
2.4.03 – Delete text as shown.
2.4.04 – Delete text as shown.
2.4.05 – Delete text as shown.
2.4.06 – Add text as shown.
2.6 – Delete text as shown.
2.7 – Delete text as shown.
2.7.03 – Delete text as shown.
2.8 – Delete text as shown.
2.9 – Delete text as shown.
2.10 – Delete text as shown.
2.11 – Delete text as shown.
2.13 – Delete text as shown.
2.15 – Delete text as shown.
2.17 – Delete text as shown.
2.18 – Delete text as shown.
2.19 – Delete text as shown.
2.20 – Delete text as shown.
2.21 – Delete text as shown.
2.22 – Delete text as shown.
2.23 – Delete text as shown.
2.24 – Delete text as shown.
3.2 – Delete text as shown.
3.3.01 – Update text as shown.
3.4.01 – Update text as shown.

Provisional Specifications – which are issued separately from the Master Specifications on a per contract basis – shall supersede and govern over all other specifications or contract documents. All other wording in the Master Specifications that is not specifically stated to be modified in the Provisional Specifications shall remain in effect as is. The Provisional Specification Summary is included to clarify and/or highlight changes.

3.5.03 – Delete text as shown.
3.5.05 – Delete text as shown.

(Update text as shown.)

1.1 SCOPE. Update the entire section as follows:

This section covers the furnishing and installation of all equipment and materials needed for the electrical requirements of this contract. It also covers conduit, wiring, and terminations for electrical equipment installed under other sections. This section includes:

Cable
Conduit
Wiring devices, boxes and fittings
Junction boxes, pull boxes and wiring gutters
Control stations
Power centers
Relay enclosures

This section covers the installation of electrical equipment furnished under other sections, except electrical items designated to be installed under those sections.

When indicated, this section covers installation of equipment furnished by Owner.

Delete the entire sentence "Additional requirements for pumps are addressed in Master Specification Section 11100, Pump Applications General Requirements."

1.2 GENERAL. Add following to the end of the section:

All tags, labels, signs, etc should be installed by the contractor before work is complete and the equipment turned over.

Contractor must provide "as-built" drawings upon completion of project before final walkthrough.

All work done must be made to work with our Ovations systems and all connections must be made to that system and tested through our IT people and Engineering before turnover.

The responsibility of pulling all permits for work is that of the contractor and we do not authorize them to do work without them.

Remove all wiring, panels, cabinets, and etc of equipment that is not in service any more or has been left from old contracts if not needed. Consult with instrumentation, electrical and engineering for this.

1.2.02. Coordination. Add the following sentence at the end: "Contractor to coordinate construction with PC-780.

1.3 CODES AND PERMITS. Updated the entire section as follows:

All work shall be performed and materials shall be furnished in accordance with the NEC – National Electrical Code, the NESC – National Electrical Safety Code, and the following standards where applicable:

ANSI	American National Standards Institute.
ASTM	American Society for Testing and Materials.
IEEE	Institute of Electrical and Electronics Engineers.
ISA	Instrument Society of America
MDPH	Michigan Department of Public Health
MIOSHA	Michigan Occupational Safety and Health Administration
NECA	National Electrical Contractor's Association
NEMA	National Electrical Manufacturers Association.
NFPA	National Fire Protection Association.
UL	Underwriters' Laboratories.

Equipment covered by this section shall be listed by UL, or by a nationally recognized third party testing laboratory. All costs associated with obtaining the listing shall be the responsibility of Contractor. If no third-party testing laboratory provides the required listing, an independent test shall be performed at Contractor's expense. Before the test is conducted, Contractor shall submit a copy of the listing procedure to be used.

1.4.03 Motor Starters. Delete the entire section.

1.4.05 Circuit Breakers. Delete the entire section.

1.4.06 Disconnect Switches. Delete the entire section.

1.5.01 Submittal Identification. Delete the following sentence "Lamp fixture descriptive sheets shall show the fixture schedule letter, number, or symbol for which the sheet applies."

Delete the entire paragraph beginning with "Transient voltage surge suppressor submittals shall include manufacturer's catalog and specification data, including device dimensions, weight, material composition, and connection diagrams. Documentation shall be provided showing the file number of compliance with UL 1449 listing requirements and results of independent, third party NRTL certification of listed surge ratings. The test results submitted shall include UL file number, date or report, product covered, electrical ratings, voltages, phases, modes of protection, nomenclatures, and UL 1449 ratings with and without disconnect device."

2.1 POWER AND TELEPHONE SERVICE ENTRANCES. Delete the entire section.

2.2.05 Medium Voltage Power Cable. Delete the entire section.

2.2.06 Tray Cable. Delete the entire section.

2.2.07 Metal Clad Lighting Cable. Delete the entire section.

2.3.04 Utility (PVC) Duct. Delete the entire section.

2.3.07 Electrical Metallic Tubing (EMT). Delete the entire section.

2.3.08 Rigid Aluminum Conduit (RAC). Delete the entire section.

2.4.03 Wall Switches. Delete the entire section.

2.4.04 Receptacles. Delete paragraphs four and five beginning with "Welding receptacles shall be 30 amperes……" and ending with "……. Woven grip and plug cap, shall be furnished for the cable size directed by Owner."

2.4.05 Special Outlets. Delete the entire section.

2.4.06 Welding Receptacles. Insert new paragraph "2.4.06 Welding Receptacles. 60A welding receptacles shall be 480 V, 3-phase by Crouse-Hinds (Model APJ6485), Appleton or approved equal.

2.6 LIGHTING FIXTURES. Delete the entire section.

2.7 LIGHTING PANELS. Delete the following sentence "Unless otherwise specified, each lighting panel shall be a dead-front, 120/240 volt, single phase or 120/208 volt, three phase panelboard with circuit breakers, in accordance with the drawings, Master Specifications Section 16500, Lighting, and the following:"

2.7.03 Buses. Delete the entire section.

2.8 POWER PANELS. Delete the entire section.

2.9 TRANSIENT VOLTAGE SURGE SUPPRESSION. Delete the entire section.

2.10 SEPARATELY ENCLOSED MOTOR STARTERS. Delete the entire section.

2.11 SEPARATELY ENCLOSED MANUAL STARTERS. Delete the entire section.

2.13 SEPARATELY ENCLOSED CIRCUIT BREAKERS. Delete the entire section.

2.15 LIGHTING AND AUXILIARY POWER TRANSFORMERS. Delete the entire section.

2.17 POWER FACTOR CORRECTION CAPACITORS. Delete the entire section.

2.18 LIGHTING CONTRACTORS. Delete the entire section.

2.19 PHOTOELECTRIC CONTROLS. Delete the entire section.

2.20 RELAY ENCLOSURES. Delete the entire section.

2.21 ALARM HORN AND BEACON. Delete the entire section.

2.22 HEAT-TRACED PIPING. Delete the entire section.

2.23 DOOR ENTRY SWITCHES. Delete the entire section.

2.24 DRAIN FITTINGS. Delete the entire section.

3.2 POWER AND TELEPHONE SERVICE ENTRANCES INSTALLATION. Delete the entire section.

3.3.01 General. Delete the following sentence “All equipment rated for 4.16 KV and above shall be terminated with stress cones.”

Add the following sentence at the end of the second paragraph “Leave a pulling string inside every junction box panel. “

Update the following sentence “Splices may be made only ….. accessible locations” with ”Splices may be made only at readily accessible locations but never inside the conduit bodies.”

3.4.01 General. Update the following in the entire section: Change “schedule 40” to “schedule 80 (All PVC conduits).”

3.5.03 Wall Switches. Delete the entire section.

3.5.05 Special Outlets. Delete the entire section.

End of Provisional Section