

City of St. Charles

**34.5 kV Padmounted
Switchgear Specification**

City of St. Charles
Two East Main Street
St. Charles, IL 60174-1984

February, 2014

City of St. Charles

**34.5kV Outdoor Padmounted
Switchgear Specification**

1.0 INSTRUCTIONS TO BIDDERS:

Request for Proposal:

Sealed proposals for 34.5kV, outdoor, padmounted, switchgear, as described in the accompanying technical specification, shall be received before 10:00 AM, Friday February 28th, 2014 at the City of St. Charles City Hall, Two East Main Street, St. Charles, IL 60174, Attention: Mike Shortall, Purchasing Department. At that time and place, the proposals will be publicly opened and read. Any proposal received subsequent to the time specified will be promptly returned to the Bidder unopened.

Interested Bidders shall "register" with Mike Shortall and provide name, phone number, and e-mail address.

Any questions shall be submitted to both Erika Drennan (Engineer) and Mike Shortall (Purchasing) via e-mail to the following e-mail addresses:

edrennan@stcharlesil.gov

mshortall@stcharlesil.gov

before Thursday, February 20th, 2014

Upon receipt of questions prior to February 20th, the bidder shall receive a reply e-mail acknowledging the receipt of the question. Response to the question shall be as soon as practical. Should the question result in a clarification that requires addenda, such addenda will be issued to all registered bidders as soon as practical.

Questions submitted after February 20th, 2014 shall not be acknowledged or answered. Bidder shall take all necessary steps to propose questions prior to February 20th.

City reserves the right to extend the due date. Should an extension be necessary, communication of such shall be e-mailed to all registered bidders.

Phone: _____

Fax: _____

email: _____

Exceptions and Clarifications to Specifications

Bidder proposes to furnish the 34kV switchgear in accordance with the Purchasers specifications, unless exceptions and clarifications are noted below on this proposal document, as follows, provide attachments if necessary:

2.0 PROJECT DESCRIPTION AND SCOPE

2.1 Location

New substation equipment is needed by the City of St. Charles, IL (hereinafter called the "City").

2.2 Owner

For the purposes of these specifications, the terms "Owner," "Buyer," "Purchaser," and "City" may be regarded as interchangeable and they refer to the City of St. Charles, the Project's owner.

2.3 Bidder

For the purposes of these specifications, the terms "Bidder," Manufacturer, Supplier and "Vendor" may be regarded as interchangeable and they refer to the Party of Agency responding to the Owner's request for bids under this project

2.4 Scope

The scope of the work includes, but is not limited to the following:

A. Providing three (3) comprehensive sets or one (1) electronic set, such as AutoCAD, of approval drawings to the City Engineers for approval prior to manufacture.

The City Engineers will have two (2) weeks to review and return approval drawing with all required corrections or revisions.

B. Manufacture of (1) new 34.5kV padmounted, outdoor switchgear, with all appurtenances as described in the accompanying technical specifications. Equipment shall comply with all current industry standards.

C. Performing all of the specified factory tests on the equipment, as described in the accompanying technical specifications, or as defined by current industry standards and practices.

D. Shipping all equipment included in the accompanying technical specifications to the City by the most reliable and economic method. All equipment provided shall be clearly identified with the equipment tag number, the purchase order number, and an item list.

E. Delivering the equipment to the site with all appurtenances onto a foundation poured by City or contactor working for City or at another prepared site within the City of St. Charles, Illinois municipal limits. This shall be included in the price of the gear.

The Vendor shall coordinate the date and time of delivery with the City.

The Vendor shall provide or contract for the necessary equipment and manpower to unload the gear at the site. Note – Vendor responsible for compliance with the Illinois Prevailing Wage Act.

F. Performing all of the specified acceptance tests on the gear after it is in-place and fully configured by crews under contract to the Vendor, if necessary. On-site Doble testing shall be performed by the City and compared to the factory test to determine acceptance.

G. Providing one (1) fully trained manufacturer's field service technician, if required, to supervise the unloading and site acceptance testing. If required, this shall be included in the cost of the gear.

Vendor is to provide the City with written credentials of the field service technician for the City's approval of the service technician. Note – Vendor responsible for compliance with the Illinois Prevailing Wage Act.

H. Providing two (3) comprehensive set of final "as-built" drawings and other documents, as required by the accompanying technical specifications, at the time of delivery of the gear on site. In addition, one complete set of drawings, including all control wiring, drawings and documents shall be provided in an agreed computer file format. CAD drawings shall be in AutoCAD files, or other agreed or Microstation format. Supplier shall also supply a maintenance manual for the gear with all recommended maintenance procedures and recommended schedule of each maintenance task. Where necessary, step-by- step maintenance procedures shall be provided.

2.5 Proposal Documentation

In addition to the information required elsewhere in the Request for Proposal, and Specifications, (hereinafter referred to as Contract Documents) the Bidder shall submit with its proposal complete and accurate data and information regarding the following:

A. Certified design test reports on the switchgear assembly shall be furnished by the Bidder as part of this proposal (Section 5.0).

B. Preliminary switchgear arrangement drawing showing the general arrangement of the switchgear and its footprint showing cable entrances.

C. Preliminary switchgear lifting requirements including, but not limited to, sling and spreader bar requirements, approximate lifting weight, and rigging connection details.

D. Manufacturer's estimate of the man-hours required to unload the switchgear at the Purchaser's site.

2.6 Schedule:

The Bidder shall complete the following schedule and submit same with its proposal.

<u>Event or Task</u>	<u>Weeks From Date Of Order</u>
Approval Drawings Submitted	_____
One-line Diagrams	_____
Bill of Material	_____
Control Panel Elevations	_____
Three Line Diagrams	_____
Control Schematics	_____
Switchgear Footprint	_____
Start of Switchgear Fabrication	_____
Start of Switchgear Assembly	_____
Production Testing	_____
Witness Testing (if required)	_____
Shipment	_____
Delivery	_____

2.7 Freight Terms

The switchgear shall be delivered to the designated location F.O.B. destination.

The switchgear shall be delivered to the designated location, and the Bidder shall provide supervision of the unloading, placement, and reassembly of the switchgear onto the pad or final location.

2.8 Terms of Payment

Purchaser will pay ninety percent (90%) of the proposal and invoiced amount(s) for items shipped, within thirty (30) days of delivery.

The remaining ten percent (10%) will be paid within thirty (30) days of the **final** shipment of the equipment and material purchased, with all required drawings and manuals, in accordance with this specification, if there are no deficiencies and defects. During this thirty (30) day period, the Purchaser will fully inspect and report all deficiencies and defects to the Manufacturer, if any. In the event that deficiencies and defects exist, the final ten percent (10%) payment will be due within ten (10) days of the deficiencies and defects being corrected by the Manufacturer.

2.9 Approved Manufacturers

The Purchaser's approved manufacturers are as follows:

1. S&C
2. G&W
3. Trayer

2.10 Proposal Validity

The Bidder's proposal shall remain valid for not less than ninety (90) days from the date the proposals are due. The Purchaser may request an extension of the proposal validity when required for evaluation purposes.

2.11 Evaluation of Proposals

The Purchaser shall evaluate the proposals and award the contract to the Bidder that, in its sole determination, has made the best proposal. In evaluating the proposals, the Purchaser may take into consideration the following factors, in addition to cost, in no particular order of importance:

1. Manufacturer of high voltage components
2. Resource requirements for the unloading, placement and assembly of the equipment
3. Exceptions to the specifications
4. Experience of the Manufacturer
5. Design Tests
6. Project schedule
7. Purchaser's previous experience with the Manufacturer
8. Operations, Physical Size, and Safety differences

The Purchaser will also take into consideration the production schedule and the impact of the equipment delivery on the Purchaser's overall project schedule and resource requirements for the total project. A Manufacturer's delivery schedule which results in the Purchaser's crews working overtime to meet the overall project schedule will have the cost of the overtime added to the Manufacturer's quoted price for purposes of the evaluation.

Pricing:

Sub 7 Switchgear per below specification. FOB Purchaser's site.

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	
1.	1	34.5kV padmount switchgear assembly for Sub 7 as specified in the Purchaser's specifications consisting of (2) Switched Bays (1) bus tie Bay, and (2) Switched Bays	\$_____
2.	Lot	Freight - FOB Purchaser's Site	Included

PART 3- GENERAL SPECIFICATIONS

A. General

These specifications cover the requirements for the design and manufacture of 34.5 KV AC, 3 phase, 60 Hz, Outdoor, Padmounted Switchgear. The switchgear ratings shall be as detailed in Section 4 of these specifications.

The Manufacturer shall furnish the equipment and material specified herein complete and operable. All standard accessories which are required to safely operate and maintain the equipment shall be provided as part of the material supplied. Accessories that enhance the operation and maintenance of the equipment shall be provided as specified.

All work shall be performed and completed in a thorough workmanlike manner and in accordance with the best modern practices in fabrication and manufacturing.

All materials used in the construction of the apparatus shall be selected as the best available for the intended purpose, considering strength, durability, insulation, and best engineering practice. Conservative safety factors shall be employed throughout the design.

The switches shall consist of manually operated load interrupting, SF6 insulated, 600A rotary puffer switches. The load break switches shall incorporate internal ground switching.

B. Scope

The Manufacturer shall furnish new, outdoor, padmounted, switchgear as detailed in these specifications. Drawings, material lists, arrangement drawings, and other data attached to these specifications shall be considered part of this specification. Where conflicts exist between the written specifications and the drawings or other data provided, the written specification shall govern.

Complete production tests and inspections as detailed in the below specifications shall be included.

The completed equipment shall be prepared and loaded for shipment as detailed in these specifications.

Field Service, if required, shall be provided by the Manufacturer.

Equipment drawings and documentation shall be provided in accordance with Section 4.H of these specifications.

C. Codes and Standards & Quality Assurance

The Applicable codes and standards listed below should be considered part of this specification. The latest revision in effect at the time of this inquiry shall apply for all standards referenced.

National Electrical Manufacturers Association (NEMA)

Institute of Electrical and Electronics Engineers (IEEE)

National Electric Code (NEC)

American National Standards Institute, Inc. (ANSI)

ANSI C37.07 Interrupting Factors - Reclosing Service

ANSI C37.010 Application Guide for Power Circuit Breaker Control Guide
Specifications

ANSI C37.1 Relays Associated with Electric Power Apparatus

ANSI C37.2 Automatic Station Control, Supervisory and Associated Telemetering
Equipment (Includes Device Function Description)

ANSI C57.13 Standard Requirements for Instrument Transformers

ANSI C62.11 Standard for Metal-Oxide Surge Arresters for AC Power Circuits

American Society of Mechanical Engineers (ASME)

American Welding Society

It is the Manufacturer's responsibility to be knowledgeable and employ designs and manufacturing practices that incorporate the latest revisions of these standards where and when applicable.

D. Quality Assurance Program

The Manufacturer shall have a formal Quality Assurance Program (Program). The Program, fully defined in a Quality Assurance Manual (Manual), shall consist of systematic procedures that provide confidence that the work is in accordance with the manufacture's standard design, codes and standards referenced above, and these specifications. Formal training of individuals performing the work shall be an element of the Program. Inspections and audits shall be conducted to insure that the Program is being followed.

An electronic copy of the manual shall be furnished with the manufacture's proposal and shall include descriptive information and details of the program, including program organization, documentation requirements, and quality control procedures.

The quality assurance personnel shall be experienced in identifying quality problems. They shall have the authority to enforce requirements and to recommend and initiate solutions.

The Program shall include testing procedures, acceptance criteria, repair methods and the quality control requirements of these specifications.

Manufacturer Qualifications: The chosen manufacturer shall have at least 20 years experience in manufacturing SF6 insulated electric equipment. The manufacturer of the switches shall be completely and solely responsible for the performance of the load break switch as rated.

The manufacturer shall furnish certification of ratings of the load break switch upon request.

The switch shall fully comply with requirements of the latest revisions of applicable industry standards, including: IEEE C37.72, IEEE C37.74, IEEE C37.60, ANSI/IEEE 386, IEC 60265-1

The switch manufacturer shall be ISO 9001:2000 and ISO 14001:2004 certified.

Load break switches shall be shipped preassembled at the factory. No field assembly shall be required.

PART 4- PRODUCTS

A. SWITCH CONFIGURATION

1. The Sub 7 switch shall be a five bay switch. Bay 1, 2, 4, and 5 shall be 3 position (closed, open, ground) 600A loadbreak switches for incoming and outgoing feeders. Bay 3 shall be a 600A center bus tie switch. Bay 1 and 2 shall be one bus. Bay 4 and 5 shall be a separate bus. Bay 3 shall be a bus tie switch between the two bays. See attached diagram.

Diagram at issue date of Bid is named "SWGRS7_R1"

B. SWITCH CONSTRUCTION

1. General

Switch contacts and cable entrance terminations shall be contained in a single welded mild steel tank with entrances internally connected by copper conductors. Construction shall be a deadfront design. Switches shall be shipped factory filled with SF6 gas conforming to ASTM D-2472. Switch tanks shall be painted ASA70 light gray using a corrosion-resistant epoxy paint.

2. Load Break Puffer Switch

Each switching way is to be equipped with an internally mounted, spring assisted, operating mechanism capable of providing quick-make, quick-break operation in either switching direction. The mechanism must be capable of delivering sufficient torque and shall be provided with latches for each position to assure load interrupting, fault closing and momentary ratings. All switch positions are to be clearly identified inside and outside the tank. The operating mechanism shall be actuated from outside the switch tank with an operating handle.

C. DESIGN RATINGS

SELECTION OF RATINGS	IEEE/IEC	
Maximum Design Voltage, kV		38
Impulse Level (BIL) Voltage, kV		150
Continuous Current, Amperes		630
Load break Current, Amperes		630
One Minute Withstand (dry), AC kV		70
Production Test Rating		50
15 Minute Withstand, DC kV		103
Momentary Current, kA, ASYM		40
Fault-Close Current, kA, ASYM		40
One Second Current, kA, SYM		25
Mechanical Endurance, Operations at 600A		1200

D. CABLE ENTRANCES

1. Load Break Puffer Switches

Cable entrances shall be tested to IEEE 386 and be 600 amp Apparatus bushings for all switch ways. Note: some bays will have voltage sensing bushings, see details.

E. ENCLOSURE

Enclosures shall be made of 12 gauge galvanized steel and manufactured to ANSI C37.72 and C57.12.28 standards. The enclosure shall be mounted independent of the switch allowing removal for ease of cable installation or future replacement if required.

Enclosures shall be tamper-resistant incorporating hinged access doors with pentahead locking bolts and provisions for padlocking. The enclosure shall be provided with lifting provisions and painted with a Munsell 7.0GY3.29/1.5 green finish.

The switchgear design shall provide for reasonable access to all parts for inspection, maintenance, and adjustments. The switchgear structure shall be sufficiently rigid to prevent warping of doors and to insure the proper operation of all doors and latches. Doors shall be made from suitable gauge galvanized steel with stiffeners where necessary.

The switchgear shall be constructed so that all buses, bus supports, and connections shall withstand the electromechanical forces which would be produced by currents equal to the momentary ratings of the equipment.

All doors shall be weather tight.

F. SF6 FACTORY PRODUCTION TESTS

The bulk SF6 gas supply and each individual switch shall be tested for moisture content.

Each individual switch shall undergo a mechanical operation check and a leak test. The switch shall be factory filled with SF6 and AC hi-pot tested one minute phase-to-phase, phase-to-ground and across the open contacts. Circuit resistance shall be checked on all ways. Switches will be shipped factory filled with SF6 gas. Tank shall be designed to withstand 15 psig internal pressure and an external pressure of 14 psig without affecting the performance of the switch.

G. DRAWINGS

In accordance with the project schedule submitted with the proposal, the following drawings shall be submitted by the Manufacturer for approval by the Purchaser.

- 1 One-line diagram(s).
- 2 Front Panel Elevation(s).
- 3 Switchgear footprint, including mounting (channel sill and anchor bolt locations) details, cable entrances, power bus entrances, weights, and door swing requirements.
- 4 Cross section of each different switchgear section showing equipment arrangements.
- 5 Bill of material, including quantity, item description, Manufacturer, and catalog or reference numbers.
- 6 Three line diagram(s).
- 7 Control schematic diagram for each different unit.
- 8 Plan view drawing of switchgear showing door swing clearances and all other required clearances.

Purchaser will review and return all approval drawings within 14 days of receipt to the Manufacturer.

Changes made to previously approved drawings shall be submitted to the Purchaser for record. All revisions shall be identified on the drawings.

Following the approval of the above drawings, the Manufacturer shall prepare wiring diagrams that indicate the relative physical location and the rear view of all terminals of all secondary control components and the appropriate wiring connections. Each control wire shall be labeled with its wiring designation from the wiring diagram. These drawings shall be submitted to the Purchaser for record following their completion.

Wiring diagrams shall allow for adequate space (30% of terminal block space) for the Purchaser to add their external connections.

Following the completion and testing of the switchgear assembly, the Manufacturer shall submit (3) - two complete set(s) of "as-built" drawings to the Purchaser. The "as-built" drawings shall include all of the approval drawings listed above, wiring diagrams, and section view and detailed dimensioned drawings.

Each drawing provided to the Purchaser shall include at a minimum, the name, jobsite location, purchase order or contract number, and such additional information as required by the Manufacturer.

Drawings shall be provided in one of the following sizes:

1. 34" X 22" (Size D)
2. 22" X 17" (Size C)
3. 17" X 11" (Size B)
4. 11" X 8 ½" (Size A)

One copy of all "as-built" drawings shall be provided to the Purchaser in AutoCAD or Microstation format on CD ROM. The drawing will be utilized to add references to City control wiring and to add City references to the manufacturer drawing.

H. INSTRUCTURAL MATERIAL

1. Within (2) weeks before the switchgear shipment, the Manufacturer shall provide (3) copies of the operating and instructional manuals for all major components contained in the switchgear assembly to the Purchaser. The manuals shall include a table of contents and detailed instructions on any recommended maintenance.

2. Unloading Instructions

Approximately two (2) weeks prior to shipment, the Manufacturer shall provide a complete set of unloading information for the switchgear to the Purchaser.

5.0 TESTING

A. Design Testing

The Manufacturer shall have completed, prior to the award of the contract, design tests as required by the applicable standards for each type of switchgear assembly to be furnished. These tests shall have been conducted at a recognized independent testing facility under the direct supervision of the facility's personnel.

B. Production Testing

The Manufacturer shall perform all production tests required by the applicable standards and these specifications. Additionally, the Manufacturer shall perform all tests required by its Quality Assurance Program to insure that this product will maintain its high quality standard of materials and reliability in operation.

Tests on each switchgear assembly shall include, but not be limited to, the following:

1. Mechanical Operation Tests
2. Instrument Transformer Case Grounding
3. Dielectric (AC Hi-Pot)
4. Control Wiring Insulation Test
5. Current, Potential, and Control Powers Transformers
6. Instrument Transformer Polarity Verification
7. Functional and Sequence Tests (Control Wiring Continuity)
8. Power factor/Doble testing as applicable
9. SF6 Testing Requirements:

Calibration certificates for all test equipment shall be available for inspection and copies shall be furnished to the Purchaser when requested.

C. Inspection & Witness Testing

The Purchaser reserves the right to inspect the equipment during manufacture and prior to shipment. The Manufacturer shall notify the Purchaser, in writing, not less than two (2) weeks prior to the intended production testing and shipment dates.

Equipment, apparatus, and material furnished shall be subject to factory tests and inspections by the Purchaser's authorized representative. Such tests and inspections may be made during any stage of the manufacturing process and any equipment, apparatus or material found unsatisfactory as to quality of workmanship will be rejected. Tests shall be in accordance with applicable standards and Quality Assurance Program as noted above.

Acceptance of tests, or the waiving of witness tests, shall not relieve the Manufacturer from the responsibility of furnishing equipment and material in accordance with these specifications.

The Purchaser shall bear all costs associated with their inspections. The Manufacturer shall make reasonable accommodation within the facility to allow the inspection to proceed smoothly without impeding the manufacturing and assembly process.

D. Production Tests

The Manufacturer shall provide one (1) copy of certified production test reports for the completed assembly in each instruction manual. Test results shall also be electronically provided on CD in PDF format. Double tests shall be provided in electronic format for import into the City DTA Web Database.

6.0 WARRANTY

All equipment and material furnished in accordance with this specification shall be warranted against material and manufacturing defects for a period of eighteen (18) months from date of shipment or twelve (12) months from the date the equipment is initially energized, whichever occurs first.

The switchgear Manufacturer shall be responsible for the warranty of all equipment regardless of who the Manufacturer of component material or equipment may be.

Damage which occurs as a result of misuse or improper operation shall not be covered under the warranty. Damage as a result of an act of God shall not be covered under the warranty.

Exterior paint finish shall carry a five year warranty for any rusting or bubbling not associated with vandalism or scratches made after installation.

7.0 STANDARD COMPONENTS & DETAILS

A. General

Note to Bidders – this specification was developed based on a previous specification for indoor metal clad gear. There is a possibility that a portion of that specification, that does not apply to this bid, has remained in the specifications. Please identify any inconsistencies or questionable requirements as soon as possible for clarification. Please advise if there are multiple references to the same requirement, especially if they conflict.

The following shall be included as standard on each gear:

- Welded steel tank painted light gray with stainless steel and brass fasteners.
- Lifting provisions.
- Gas pressure gauge and fill valve.
- Grounding provisions designed in accordance with ANSI C57.12.10 of latest issue in each bay shall be provided. 4/0 Brass Lugs. Grounding provisions for switch tank and all cable entrances.
- Stainless steel three line diagram and corrosion-resistant nameplates.
- Switch operating handle(s) with padlock provision and end stop.
- 12 gauge galvanized steel padmount enclosure painted Munsell green with stainless steel hinges and pentahead locking mechanisms with integral padlock. Padlock will need to be removed to obtain access to the pentahead bolt.
- 5 year warranty for rust or bubbles in paint finish
- Switchgear shall have a suitable SF6 pressure monitoring relay that will provide an alarm output contact. SF6 alarm shall be wired to a terminal block and onto the relay if applicable.
- All switchgears shall be delivered with a 12 port SEL Radio Ranger Wireless Interface SEL8300A with antenna. Mounted in one of the switched bays. The gear shall have adequate cable training room to feed the magnetic probe from the Radio Ranger fault indicators through to the Interface from other bays and enough room for all of the cables between the bays.
- SF6 Density Switch, Gas pressure gauge, and fill valve.

Cable Terminations/Surge Arresters:

The goal is to have all components required, minus inbound 35kV cables to the gears, to be provided by the Bidder as part of the gear, even though some pieces (T-Op elbows and arresters) will not be physically installed at the factory. It will be the responsibility of the vendor to insure compatibility of all components.

35kV T-Op terminations for 1000MCM 420mil cable shall be Cooper part #TP635U27TCS3 and provided with the gear for all applicable sections. Each shall have the test point option and the capability of attaching/piggy-backing elbow arresters Cooper part # 3238020C27M if required or for grounding and phasing of cables. Although not physically installed, the terminations shall be included and shipped with the gear:

- Sub 7
 - o Bay 1 – 1000MCM, Cu, 420mil cable
 - o Bay 2 – 1000MCM, Cu, 420mil cable
 - o Bay 4 – 1000MCM, Cu, 420mil cable
 - o Bay 5 – 1000MCM, Cu, 420mil cable

35kV elbow type arresters to fit on 35kV T-Op Deadbreak terminations shall be provided for all sections where arresters are indicated on the one-line diagram. Although not installed, they shall be included. Supplier shall list all manufacture part numbers for the terminations and arresters.

Supplier shall be responsible for insuring that all components fit/integrate with each other.

Power Cable Compartment:

- Enclosures shall be tamper-resistant incorporating hinged access doors with pentahead locking bolts and provisions for padlocking. The enclosure shall be provided with lifting provisions and painted with a Munsell 7.0GY3.29/1.5 green finish.
- Access to the power cables shall generally be on one side.
- Each incoming section cable compartment shall accommodate the termination of 1 set of conductors on 600A non-loadbreak, bolted, apparatus bushings.

- Each power cable compartment shall include a 1-5/8" unistrut, cable support system which is field adjustable in the vertical plane.

Wiring:

All instrument, control, indication, relaying, and instrument transformer secondary wiring shall be stranded tinned copper conductor, type SIS, cross-linked polyethylene insulation, rated 600 volt. The wire size and number of strands per conductor shall be in accordance with Table 1. The minimum wire size shall be #14 AWG, 41 strand, except for current transformer secondary wiring which shall be #12 AWG, 65 strand, or larger. Signal wiring (transducer outputs, etc.) shall be #16 twisted shielded pair. RTU indication point connections shall be #16 AWG, 26 strand, type SIS. Splicing and tapping of wiring shall not be permitted.

Table 1
Type SIS
Conductor Sizes &
Number of Strands

<u># AWG</u>	<u>Strands</u>
18	18
16	26
14	41
12	65
10	105

All wiring shall be fitted with solderless, non-insulated, ring-type compression terminal connectors. All wire terminals shall be attached using a positive ratchet locking crimping tool. More than two terminations per pole of terminal blocks and devices will not be permitted.

All devices shall be permanently labeled and in agreement with the wiring diagrams.

A conductor identification sleeve shall be provided on each end of each conductor. Each sleeve shall be marked with the opposite end destination identification as indicated on the wiring diagrams. Identification sleeves shall be not less than 1.5 inch long. Adhesive labels are not acceptable.

Terminal blocks shall have washer head binding screws and shall have bases and barriers molded integrally with brass inserts rated for not less than 600 volts. The terminal blocks shall accommodate up to #8 AWG ring tongue type terminals and shall include a marking strip for terminal identification. Terminal block covers shall be provided when specified.

Terminal blocks for current transformer secondaries shall be equipped with a shorting device to permit the removing and testing of secondary wiring without opening the current transformer secondary. All CT wires shall use ring tongue connections. Removal of the outgoing wiring shall not affect the short-circuiting device.

All terminal blocks shall be mounted such that they provide adequate space and are easily accessible for field wiring and servicing. A minimum of 30% spare terminals shall be provided for the Purchaser's use.

All unused contacts from breaker auxiliary switches and lockout relays shall be wired to terminal blocks.

Two pole, disconnecting protective devices shall be provided for each breaker to protect the trip, close, and motor circuits. Protective devices required for the circuits shall be pullout cartridge type fuses or thermal-magnetic circuit breakers with ambient temperature compensation and a two-pole knife blade switch.

All wiring shall be installed in suitable wiring gutters or troughs and protected against arcing in the switchgear and exposure to high voltage. Gutters and troughs shall not be more than 70% filled. All inter-unit wiring shall terminate at terminal blocks at both ends.

Wiring between hinged and stationary panels shall be supported and fastened in such a manner to prevent undue stress and to protect the wiring bundle from contact with sharp edges.

All wiring shall be firmly bundled and secured to ensure that it will remain in its intended location and not interfere with the operation of any device or the operation of the breakers, including their removal from the cubicle. Plastic wire troughs may be used in lieu of cable bundles with tie wraps. Wire bundles shall be secured to the structure. Adhesive type wire bundle hold down clamps are not acceptable. All hold downs shall be bolted or welded to the structure.

Test switches if required shall be: ABB FT-1 129A501G01 or ABB FT-1 670B197G18 or ABB FT-1 716B562G25 as appropriate.

Switch Position Indication:

An auxiliary 52A contact, indicating switch position (open, closed, ground), normally open when the switch is open, shall be provided for use by the Purchaser and wired to a terminal board for all switches. These contacts shall be wired out to a common terminal board in the switch control compartment.

Voltage Sensing in Bay 1 and Bay 5:

Voltage sensing bushings will be provided in Bay 1 and Bay 5 with contacts wired to the control cabinet to alert purchaser in case Voltage is lost to either bus.

Nameplates:

Nameplates shall be provided for all the equipment to be furnished. Engraved nameplates shall be located and positioned such that they will be easily accessible and visible, and the information thereon shall be clearly legible to the naked eye. Nameplates will be secured with stainless steel screws.

A Manufacturer's label shall be installed inside the front door of each bay and shall contain the following information:

1. Manufacturer's name, address
2. Serial Number
3. Three line diagram

In addition, each bay shall contain a label which contains the following information:

1. Loadbreak Switch Ampacity

Heaters:

Heaters to prevent condensation shall be provided which are long life resistance type with protective covers to prevent accidental contact by personnel. All heaters shall be rated 500 watts, 240 volt AC, and connected to 120 volt AC to increase their life expectancy.

Heaters shall not be thermostatically controlled.

A dedicated power source, with proper overcurrent protection, shall be provided to power the heaters.

Switchgear Specifics:

- Bay 1 – 600A minimum continuous, Load Break Switch
- Bay 2 – 600A minimum continuous, Load Break Switch
- Bay 3 – 600A minimum continuous, Load Break Switch – Bus Tie
- Bay 4 – 600A minimum continuous, Load Break Switch
- Bay 5 – 600A minimum continuous, Load Break Switch

Bay 1 and Bay 5 shall incorporate voltage sensing bushings, wired to terminal boards through test switches in the control compartment.

Switch position indicating (52A) contacts shall be wired to terminal boards in the control compartment.

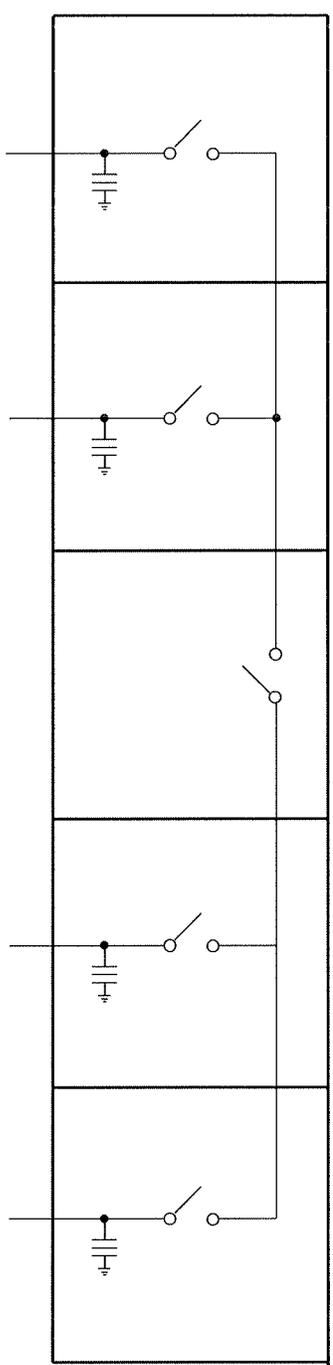
BAY 1

BAY 2

BAY 3

BAY 4

BAY 5



SWGR ONE-LINE

NOTE: ALL SWITCHES ARE 3 POSITION-CLOSED, OPEN, GROUND
 NOTE:  INDICATES ARRESTOR LOCATION



SECTION II
INFORMATION TO BIDDERS

1. **GENERAL CONDITIONS:**

- A. Bids shall be submitted in a sealed envelope, inserted in a larger sealed envelope. Both envelopes shall be clearly marked with the word "Bid", and the name of the project or subject of the bid. (Sec. 2.33.200A of the St. Charles Municipal Code). The outer envelope shall be addressed "Purchasing Manager, City of St. Charles, Two East Main Street, St. Charles, IL 60174." Include a return address on both envelopes. Bids received after the specified time and date will be returned unopened. Bids shall be on City of St. Charles bid form and shall be returned attached to the original specification sheets. Copies are not acceptable. **All bids submitted are binding for sixty (60) calendar days following the date of the bid opening.**
- B. All bid proposals must be signed with the firm name and by an authorized officer or employee of the company. One bid per bidder is allowed.
- C. The award of bids shall be made, after determination of the successful bidder by the City Council, by issuance of a City purchase order from the City of St. Charles purchasing manager to the successful bidder.
- D. The City of St. Charles reserves the right to waive minor specification deviations and reject any or all bids, and to accept the bid, which is in the opinion of the City Council, the lowest conforming bid from a responsible bidder as defined by state law and Sec. 2.33.230 of the St. Charles Municipal Code.
- E. All bids must be quoted on the basis of delivery to the City storeroom, 200 Devereaux Way in St. Charles, IL. The price shall be stated in units and bids made on each item separately. In case of conflict, the unit price shall govern. The City reserves the right to award the bid in aggregate or on individual items.
- F. All taxes, storage, handling and delivery costs incurred prior to receipt of the material by the City must be assumed by the successful bidder.
- G. All taxes, storage, handling and delivery costs incurred prior to receipt of the material by the City must be assumed by the successful bidder. The City of St. Charles is exempt from paying Illinois Use Tax, Illinois Retailers Occupation Tax, Federal Excise Tax, and Municipal Retailer's Occupation Tax.

The Illinois Department of Revenue tax exempt form can be obtained through the City of St. Charles Office of Purchasing.

The winning bidder will be required to complete the requested information included on this form. It is the purpose of this document to allow the winning bidder to purchase items for the bid project, tax free. It is the intent that the contractor will include the savings into the bid or quote.

Contractors will be responsible for utilizing this tax exempt form in a legal and responsible way. The contractor must sign a certification that the tax exempt form will be solely used for the purpose stated above. Abuse of the City's tax exempt status to avoid sales tax liability on other contractor purchases shall not be tolerated and may disqualify the contractor from being awarded future City contracts or business.

- H. Material is to be delivered on a flatbed trailer and ready to be unloaded from the side of the trailer without driving a forklift onto the trailer. Advance notice of 48 hours is required by calling 630-377-4421. Deliveries can be made to the City between the hours of 7:00 a.m. - noon and 12:30 p.m. - 3:30 p.m.
- I. Each bidder shall make an accurate statement in the proposal of the smallest number of calendar days in which delivery can be made after placement of the order.
- J. Any firm bidding this/these unit(s) must have a full service shop which includes parts and service mechanics capable of making any adjustments or repairs as may be required. The firm must also have service truck capabilities.
- K. Materials will be paid within 30 days of receipt/acceptance of same and receipt of invoice, or if a discount is allowed and is advantageous to the City, within five (5) days of receipt/acceptance of same and receipt of the invoice. Bids will be evaluated on both thirty (30) day and discount pricing.

REQUIRED _____ NOT REQUIRED _____

- L. Travel time (incl. on-site repairs and/or pick up and delivery) is included within the labor or service warranty.

REQUIRED _____ NOT REQUIRED _____

2. **MATERIALS:**

Only new, unused, first quality material and/or equipment shall be offered by the bidder.

3. **BID RESULTS:**

The bidder must supply a self-addressed, stamped envelope for obtaining bid results. **NO** bid results will be given by telephone.

4. **ADDENDUM**

Any interpretation of the specifications will be mailed to each bidder receiving a set of the bid documents. Bidders shall acknowledge receipt of such addendum by returning the addendum form.

5. **BID DEPOSIT**

A 10% bid deposit (certified check, cashier's check, or bank draft) or bid bond is required to accompany this bid. Failure to do so will eliminate the bid.

REQUIRED _____ NOT REQUIRED _____

6. **PERFORMANCE BOND**

A performance bond in the amount of 100% of the bid submitted is required within ten (10) calendar days of acceptance of the bidder's proposal by the City.

The performance bond of the successful bidder shall have a minimum "A" rating as defined in Best's Key Rating Guide, be conditioned on the faithful performance of the requirements of the contract, and shall have as surety a corporate surety authorized to act as such in Illinois. The performance bond shall cover payment for all labor and material, and insure completion of the project. The bidder will be responsible for all claims for injuries to persons or damages to property or premises arising out of or in connection with his or her operations prior to the acceptance of the finished work or supplies, and that he or she will promptly make payments to all persons supplying him or her or them with labor or materials in the prosecution of the work provided for in the contract; and shall guarantee to indemnify and save the City and its officers and employees harmless from all costs, damages, and expenses arising out of or by reason of the bidder's failure to comply and perform the work and complete the contract in accordance with the specifications.

The performance bond shall be in conformance with the requirements of the Illinois Act in relation to bonds of bidders entering into contracts for public construction. (Illinois Compiled Statutes Ch. 30, Sec. 550/1, et seq.)

REQUIRED _____ NOT REQUIRED _____

7. **GENERAL GUARANTY**

The bidder agrees to (a) hold the City, its agents, and employees harmless from liability of any nature or kind for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented, invention, article, or appliance furnished or used in the performance of the contract in which the bidder is not the patentee, assignee, licensee, or owner; (b) protect the City against latent defective material or workmanship and to repair or replace any damages or marring occurring in transit or delivery; (c) pay for all permits, licenses, and fees

and give all notices and comply with all laws, ordinances, and rules of the City and State of Illinois; (d) indemnify City against all claims for personal injury, death, and/or property damage arising out of the project.

8. **ASSIGNMENT**

Assignment of this contract or any part thereof, or any funds to be received thereunder by the bidder shall be subject to the approval of the City of St. Charles.

9. **DEFAULT**

The contract may be cancelled or annulled by the purchasing manager in whole or in part by written notice of default to the bidder upon nonperformance or violation of contract terms. An award may be made to the next lowest bidder, or articles specified may be purchased on the open market similar to those so terminated. In either event, the defaulting bidder (or his surety) shall be liable to the City for costs to the City in excess of the defaulted contract prices. The bidder shall continue the performance of this contract to the extent not terminated under the provisions of this clause. Failure of the bidder to deliver materials or services within the time stipulated on his or her bid, unless extended in writing by the purchasing manager, shall constitute contract default.

10. **INSURANCE**

Detailed insurance requirements are included under City of St. Charles Insurance Requirements for Bidders.

The bidder **shall** secure and maintain in effect at all times, at his or her expense, insurance of the following kinds and limits to cover all locations of the bidder's operations in connection with work on his or her company's projects, naming the City of St. Charles as an additional insured. The bidder shall furnish Certificates of Insurance to the City before starting construction or within 10 days after the execution of the contract, whichever date is reached first. All insurance policies shall include a non-cancellation clause provision preventing cancellation without 30 days written prior notice to the City. In case of insurance cancellation, bidder shall obtain a new insurance policy in compliance with this paragraph prior to the effective date of cancellation.

Certificates of insurance must be completed on the ACCORD 25-S form, with the cancellation clause revised and revisions initialed. An example is enclosed.

REQUIRED _____ NOT REQUIRED _____

For this specific project, the City of St. Charles is requiring a liability umbrella of \$ 5,000,000 (aggregate for this project).

REQUIRED _____ NOT REQUIRED _____

11. **CERTIFICATE OF COMPLIANCE**

All bidders are required to complete the Certificate of Compliance (attached) as per the Illinois Compiled Statutes Ch. 65, Sec. 11-42.1-1, which will be returned with the bid.

12. **HEALTH AND SAFETY ACT**

All work under this contract shall comply with the Occupational Safety and Health Act (OSHA) of 1975, and all other federal, state or local statutes, rules or regulations affecting the work done under the contract.

13. **PREVAILING WAGE RATE**

To the extent as required by law, contractors shall comply with the Illinois Prevailing Wage Act, 820 ILCS 130/01 (the "Act") and the current City of St. Charles Ordinance with rates to be paid, in effect at the time work is performed in the County where the work is performed. The successful bidder is responsible for posting and issuing current rates to its employees and subcontractors. Current rates are available through the Illinois Department of Labor's website at <http://labor.illinois.labor.gov/>.

The successful bidder and each subcontractor shall submit monthly, in person, by mail, or electronically, a certified payroll to the City of St. Charles. The certified payroll shall consist of records of all laborers, mechanics, and other workers employed by them on the project. The records shall include each worker's name, address, telephone number (when available), the last four digits of the worker's social security number, classification or classifications, the hourly wages paid in each period, the number of hours worked each day, and the starting and ending times of work each day. The certified payroll shall be accompanied by a statement signed by the bidder or subcontractor which avers that:

- A. Such records are true and accurate;
- B. The hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required; and
- C. The bidder or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class B misdemeanor.

The City of St. Charles is required to keep the certification records submitted for a period of not less than five years. Furthermore, these records, except an

employee's address, telephone number, and social security number, shall be made available in accordance with the Freedom of Information Act.

14. **EXECUTION OF CONTRACT, INSURANCE AND PERFORMANCE BOND**

The successful bidder, within ten (10) business days after acceptance of the bidder's offer by the City, shall execute all requested contract documents, supply satisfactory evidence of required insurance, and furnish a satisfactory performance bond when required by the bid documents. In the event that the bidder fails to furnish required documents, insurance, and performance bond within ten (10) business days after acceptance of the bidder's offer by the City, then the City's acceptance of the offer shall automatically terminate, and the bid deposit of the bidder shall be retained by the City as reimbursement for administrative costs.

15. **RELEASE OF BID DEPOSITS**

Within a reasonable time after the bid opening, bid deposits of all except the three lowest responsible bidders will be released. The remaining deposits will be released after the successful bidder has executed the contract documents and furnished evidence of the insurance and bonds required by the bid documents.

16. **EQUAL OPPORTUNITY EMPLOYER**

The City of St. Charles is an equal opportunity employer, and all bidders are required to be equal opportunity bidders as defined by all applicable state and federal laws and regulations.

17. **VETERANS PREFERENCE**

The City of St. Charles, per Illinois Compiled Statutes Ch. 330, par. 55/1-55/3, gives preference to veterans for public works contracts, should a tie bid arise between local OR non-local bidders.

18. **CERTIFICATE OF NON-DISQUALIFICATION**

All bidders are required to submit a completed Certificate of Non-Disqualification (attached), as required under Illinois Compiled Statutes, Ch. 720, Sec. 33 E-11.

19. **PROVISIONS OF ST. CHARLES MUNICIPAL CODE**

All bids and contracts shall be in accordance with Title 2, Ch. 2.33 of the City of St. Charles Illinois Municipal code, as from time to time amended, which shall take precedence over and control all aspects of this contract, and which are incorporated herein by reference.

20. **SURVIVAL**

The provisions hereof shall survive and shall not merge with the resulting purchase order or contract awarded to the successful bidder, but shall be additional terms thereof; and the submission of a bid shall be deemed as acceptance of these terms.

21. **CERTIFICATE OF COMPLIANCE WITH SAFETY STANDARDS**

All bidders are required to submit a completed Certificate of Compliance with Safety Standards (attached).

22. **CERTIFICATE OF COMPLIANCE WITH PUBLIC ACT 87-1257 OF THE ILLINOIS HUMAN RIGHTS ACT**

All bidders are required to submit a completed Certificate of Compliance with Public Act 87-1257 of the Illinois Human Rights Act (attached).

23. **WAIVERS OF MECHANICS LIEN**

A. With each application for payment, submit waivers of mechanics liens from the bidder, subcontractors, and suppliers for the construction period covered by the current application. Payment will not be released until the bidder has supplied the City with the waiver of liens.

1. Submit partial waivers on each item for the amount requested, prior to deduction for retainage, on each item.
2. When an application shows completion of an item, submit final or full waivers.
3. The City reserves the right to designate which entries involved in the work must submit waivers.
4. Waiver Delays: submit each application for payment with the bidder's waiver of mechanics lien for the period of construction covered by the application.

A. Initial application for payment: administrative actions and submittals, that must precede or coincide with submittal of the first application for payment, include the following:

1. List of subcontractors.
2. List of principal suppliers and fabricators.
3. Schedule of values.

REQUIRED _____

NOT REQUIRED _____

**CERTIFICATE OF COMPLIANCE OF
ILLINOIS COMPILED STATUTES, CH. 65, SEC. 11-42.1-1**

The undersigned, upon being first duly sworn, hereby certifies to the City of St. Charles, Kane and DuPage Counties, Illinois, that _____
_____ (bidder) is not currently delinquent in the payment of any tax administered by or owed to the Illinois Department of Revenue, or otherwise in default upon any such tax as defined under Ch. 65, Sec. 11-42.1-1, Illinois Compiled Statutes.

Name of Bidder

By: _____

State of _____),

ss.

County of _____)

Subscribed and sworn to
before me this _____ day
of _____, _____.

Notary Public

**CERTIFICATE OF COMPLIANCE WITH PUBLIC ACT 87-1257
OF THE ILLINOIS HUMAN RIGHTS ACT**

The undersigned, upon being first duly sworn, hereby certifies to the City of St. Charles, Kane and DuPage Counties, Illinois, that _____
_____ (bidder) complies with the Illinois Human Rights Act as amended by Section 2-105, Public Act 87-1257 in relation to employment and human rights.

Name of Bidder

By: _____

State of _____),

ss.

County of _____)

Subscribed and sworn to
before me this _____ day
of _____, _____.

Notary Public

CERTIFICATE OF COMPLIANCE WITH SALES TAX FORM

The undersigned, upon being first duly sworn, hereby certifies to the City of St. Charles, Kane and DuPage Counties, Illinois, that _____
_____(bidder) shall comply with General Conditions, Paragraph 1.G.
and the Illinois Department of Revenue tax exempt form.

Name of Bidder

By:_____

State of _____),

ss.

County of _____)

Subscribed and sworn to
before me this _____ day
of _____, _____.

Notary Public



Illinois Department of Revenue
 Office of Local Government Services
 Sales Tax Exemption Section, 3-520
 101 W. Jefferson Street
 Springfield, IL 62702
 217 782-8881

January 2, 2010

CITY OF ST CHARLES
 DIRECTOR OF FINANCE
 TWO EAST MAIN ST
 ST CHARLES IL 60174

Effective January 1, 2010, we have renewed your governmental exemption from payment of the Retailers' Occupation Tax, the Service Occupation Tax (both state and local), the Use Tax, and the Service Use Tax, as required by Illinois law.

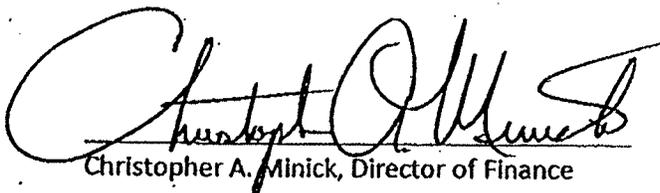
We have issued the following new tax exemption identification number:

E9996-0680-06
 to
 CITY OF ST CHARLES
 of
 ST CHARLES, IL

The terms and conditions governing use of your exemption number remain unchanged.

Office of Local Government Services
 Illinois Department of Revenue

Issued To: _____
 Company: _____
 Date Issued: _____
 Project: _____
 Dates Valid: _____


 Christopher A. Minick, Director of Finance



City of St. Charles Certificate of Insurance Requirements

All Contractors, Manufacturers/Distributors, and Suppliers shall be required to carry and evidence insurance coverage with a standard Acord Certificate of Insurance with minimum limits applicable. Sample attached.

1. Minimum Insurance Requirements and Limits

	<i>Coverage</i>		<i>Limits</i>
A.	Automobile Liability	\$1,000,000	Combined single limit
B.	Commercial General Liability	\$1,000,000	Per occurrence
		\$2,000,000	General aggregate

All Commercial General Liability policies must include Blanket Contractual coverage and Broad Form Vendors' Liability coverage.

C.	Workers' Compensation (Employers' Liability)	\$500,000	Per accident
		\$500,000	Disease limit
		\$500,000	Each Disease
D.	Umbrella Liability	\$5,000,000	Limit

2. Cancellation or Alteration

The policies of insurance required by this exhibit shall provide that they cannot be cancelled or altered in any way changing coverage except after 30 days' prior written notice by certified mail to owner.

3. Workers' Compensation and General Liability Waiver of Subrogation in favor of the City.

4. Insurance Certificates

- Must be submitted ten (10) days prior to any work being performed to allow review of certificates.
- Certificates not meeting requirements must be revised and resubmitted within fifteen (15) days or the subcontractor will not be allowed on the jobsite.

5. Additional Insured and Broad Form Vendors' Liability in favor of the City.

The City must be named as an Additional Insured with the following wording appearing on the Certificate of Insurance: "The City of St. Charles and any official, trustee, director, officer, or employee of the City (plus any holder or mortgage as designated by the City) as to any and all projects, as an Additional Insured for the Commercial General Liability as respects any and all projects for any work being performed and this coverage will be primary and noncontributory."

6. Minimum Insurance Carrier

All contractors, manufacturers/distributors, and suppliers' insurance carriers must comply with the minimum A.M Best rating of A-VI for all insurance carriers.



CERTIFICATE OF LIABILITY INSURANCE

STCHAR2

OP ID: MR

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Wine Sergi & Co, LLC 225 Smith Road St. Charles, IL 60174 Richard W. Ryan	630-513-6600	CONTACT NAME:	
	630-513-6399	PHONE (A/C, No, Ext):	FAX (A/C, No):
		E-MAIL ADDRESS:	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: AM Best Rating A-VI or better	
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

INSURED: Approved Contractor
123 Main Street
Any Town, IL 60174

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY						EACH OCCURRENCE \$ 1,000,000
X	COMMERCIAL GENERAL LIABILITY	X	X				DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000
	CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 5,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$ 2,000,000
	POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/>						\$
	AUTOMOBILE LIABILITY		X				COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
X	ANY AUTO						BODILY INJURY (Per person) \$
	ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
	HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$
	SCHEDULED AUTOS						\$
	NON-OWNED AUTOS						\$
X	UMBRELLA LIAB	X					EACH OCCURRENCE \$ 5,000,000
	EXCESS LIAB						AGGREGATE \$ 5,000,000
	CLAIMS-MADE						\$
	DED						\$
	RETENTION \$						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		X				X WC STATUTORY LIMITS OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N <input type="checkbox"/>	N/A				E.L. EACH ACCIDENT \$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 500,000
							E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

The City of St. Charles and any official, trustee, director, officer or employee of the City (plus any holder or mortgage as designated by the City) as to any and all projects are additional insured as respects general liability coverage on a primary and non-contributory basis. Waiver of subrogation applies to general liability and workers compensation.

CERTIFICATE HOLDER	CANCELLATION
STCHAR1	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
City of St. Charles 2 E. Main Street St. Charles, IL 60174	AUTHORIZED REPRESENTATIVE

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