PRECISION CONTROL SYSTEMS, INC.

405 East Ridge Road Griffith, Indiana 46319 708.862.1177 Voice 219.838.6717 Fax

Mr. Ilandus Hampton, Mr. Brian Paczesny Joliet HSD 204 300 Caterpillar Drive, Joliet, IL November 4th, 2025



RE: SD204 Phase 1 2026 Controls Replacement

Dear Mr. Paczesny and Mr. Hampton,

Precision has completed the preparatory work in consolidating many of Joliet 204's older BAS systems on to a single front-end graphical user interface. Now that this platform is in place, we recommend a phased approach to upgrade the 25+ year old computerized HVAC systems to enable more comfortable teaching spaces, less unplanned downtime, and improved energy efficiency. The following firm pricing and scopes of work can be contracted through our current cooperative purchasing agreement. Joliet Township HSD 204 is currently a member of OMNIA and may continue to contract using competitively bid pricing through OMNIA Cooperative Purchasing Contract 159594. Bid Results: https://www.omniapartners.com/suppliers/the-hill-mechanical-group/public-sector

Benefits of Upgrading HVAC and Controls

- Many of the existing HVAC control systems are beyond 25 years old. The expected life of a computerized temperature control system is between 15 and 20 years. SD204 has begun to experience control systems failing which causes uncomfortable spaces for faculty and students. These outages have also occurred during the school year which creates a disruption in learning.
- Precision is currently working with an energy efficiency and commissioning specialist at West and Central high schools in 2025. We have identified significant energy savings by upgrading controls to optimize system scheduling and advanced HVAC control strategies. Com-Ed has committed a substantial rebate to SD204 to continue to make these energy efficiency improvements.
- Precision has installed a platform that is vendor/manufacturer agnostic. The systems installed may be serviced and maintained by in house staff. The district is not "locked-in" to a specific vendor.

General Scope of Work Incldued for All Items

- Provide engineered drawings inclusive of plan-view of equipment locations, one-line diagram of network architecture, controller wiring details, and sequences of equipment operations.
- Provide engineering, project management and oversight labor throughout entire project
- Retain existing mechanical equipment (AHUs, Fans, Pumps, Piping, Ductwork, Valves, etc)
- Retain existing electrical power distribution equipment (motor control centers, starters, variable frequency drives, etc)
- Work to be performed on 1st shift during the school year in areas unoccupied by students (mechanical/electrical rooms, roofs, storage areas). Any work disruptive to occupied areas will be performed on off days or scheduled second shifts. No Saturday work has been included. The majority of the disruptive construction work would take place during summer break.
- Provide as-built close out documentation at completion of project
- Provide 1-year parts and labor warranty

Joliet Central Boiler Plant Controls Replacement

- The following section is applicable to (2) hot water boilers, (2) circulating pumps, and (3) distribution pumps
 - o Furnish and install the following pertaining to the boiler plant controls
 - New controller and enclosure

- Current sensing relays
- Water temperature sensors

Joliet Central Smith Building (Jace 7) Controls Replacement

- The following section is applicable to (1) hot water boiler and (1) circulating pump
 - o Furnish and install the following pertaining to the boiler plant controls
 - New controller and enclosure
 - Current sensing relays
 - Water temperature sensors
- The following section is applicable to (5) Roof Top Units
 - o Furnish and install the following pertaining to the roof top unit controls
 - New controller and enclosure
 - Current sensing relay
 - Space temperature and CO2 sensor
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor
- The following section is applicable to (10) VAV's
 - o Furnish and install the following pertaining to the VAV controls
 - New controller and enclosure
 - Duct temperature sensor
 - Space temperature and CO2 sensor
 - Control valve

Joliet West Tridium BAS Server

- Integrate to HVAC equipment from 2022 "Joliet IAQ Improvements Project" to Precision BAS
 - o (9) air handling units and miscellaneous equipment
 - o Provide graphics, trends, alarms, schedules
 - Precision to identify any deficiencies and provide separate proposal for any additional work required

Joliet West Field House Controls Replacement

- The following section is applicable to (4) Roof Top Units
 - o Furnish and install the following pertaining to the roof top unit controls
 - New controller and enclosure
 - Current sensing relay
 - Space temperature and CO2 sensor
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor

Joliet West E-Building Controls Replacement

- The following section is applicable to (34) VAV's
 - o Furnish and install the following pertaining to the VAV controls
 - New controller and enclosure
 - Duct temperature sensor
 - Space temperature and CO2 sensor
 - Control valve

Joliet West A-Building Controls Replacement

- The following section is applicable to (3) Make-Up Air Units
 - o Furnish and install the following pertaining to the make-up air unit controls

- New controller and enclosure
- Current sensing relay
- Space temperature and CO2 sensor
- Duct temperature sensor
- Averaging sensor
- Low limit sensor

Joliet West C-Building and F-Building Controls Replacement

- The following section is applicable to (3) Roof Top Units
 - o Furnish and install the following pertaining to the roof top unit controls
 - New controller and enclosure
 - Current sensing relay
 - Space temperature and CO2 sensor
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor

Joliet West H-Building Controls Replacement

- The following section is applicable to (3) hot water boilers and (2) distribution pump
 - o Furnish and install the following pertaining to the boiler plant controls
 - New controller and enclosure
 - Current sensing relays
 - Water temperature sensors
- The following section is applicable to (1) Roof Top Unit
 - o Furnish and install the following pertaining to the roof top unit controls
 - New controller and enclosure
 - Current sensing relay
 - Space temperature and CO2 sensor
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor
- The following section is applicable to (14) VAV's
 - Furnish and install the following pertaining to the VAV controls
 - New controller and enclosure
 - Duct temperature sensor
 - Space temperature and CO2 sensor
 - Control valve

Joliet West Unit Ventilator Controls Replacement

- The following section is applicable to (12) unit ventilators
 - o Furnish and install the following pertaining to the unit ventilator controls
 - New controller
 - Current sensing relay
 - Space temperature and CO2 sensor
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor
 - Control valve

Joliet West B-Building Controls Replacement

- The following section is applicable to (5) cabinet unit heaters
 - o Furnish and install the following pertaining to the cabinet unit heater and unit heater controls

- Current sensing relay
- Plate temperature sensor
- Control valve

Joliet West G-Building Controls Replacement

- The following section is applicable to (2) Air Handling Units
 - Furnish and install the following pertaining to the air handling unit controls
 - New controller and enclosure
 - Current sensing relay
 - Duct temperature sensor
 - Averaging sensor
 - Low limit sensor
 - Duct CO2 sensor
 - Air differential pressure switch
 - Damper actuators
 - Static pressure transmitter
 - Control valves
- The following section is applicable to (6) VAV's
 - Furnish and install the following pertaining to the VAV controls
 - New controller and enclosure
 - Duct temperature sensor
 - Space temperature and CO2 sensor
 - Control valve

SD204 Phase 1 2026 Controls Replacement: \$1,065,600

Exclusions and Clarifications

- Provide electrical labor, programmer labor to install new control devices and program
- At the completion of installation, check out equipment functionality and provide a report of deficiencies at completion of the controls upgrade for any equipment that was retained
- Test and balance is not included
- No flow meters have been included
- No energy monitoring has been included
- No refrigerant or CO monitoring has been included
- No VFD's have been included
- Phase 1 assumed Summer 2026

Thank you for allowing us to continue to support SD204, we look forward to promptly starting this project. Sincerely,

Matt Ernst, P.E. Account Executive

Joliet Township High School District 204 Long Range Capital Planning (Controls/HVAC)



Joliet Central Boiler Plant Replace Controls on Boiler Plant \$52,00 Joliet Central Pathways/Childcare (JACE1) Replace Controls on (3) AHU's and (13) VAV's at Pathways \$104,00 Joliet Central Pathways/Warehouse Replace Controls on (5) RTUs and (10) VAV's at Childcare \$99,00 Joliet Central Smith Building (JACE7) Replace Controls on (2) RTU's, (10) VAV's, (1) Boiler Room \$109,00 Joliet Central Field House (JACE2) Replace Controls for(4) RTU's & (72) VAV's \$347,00 Joliet Central Main Building RTU's & VAV's (JACE3) Replace Controls on (4) RTU's & (41) VAV's \$222,00 Joliet Central Main Building RTU's & VAV's (JACE4) Replace Controls on (4) RTU's & (48) VAV's & (19) FPB's \$299,00 Joliet Central Main Building VAV's (JACE5) Replace Controls on (86) VAV's \$316,00 Joliet Central Student Center (JACE6) Integrate Trane Bacnet Equipment (4) RTU's, (6) FPB's, (15) VAV's \$122,00 Joliet West Tridium BAS Server Merge two existing Tridium servers into one \$38,00 Joliet West Building E Replace Controls on (34) VAV's in E-Building (PMI) \$198,60 Joliet West Building A Boiler Replace Controls for Main Boiler Plant with VFD's (PMI) \$137,00 Joliet West Building A Replace Controls for (3) MAU's for Shops (PMI) \$49,00	2026
Joliet Central Pathways/Warehouse Replace Controls on (5) RTUs and (10) VAV's at Childcare \$ 99,00 Joliet Central Smith Building (JACE7) Replace Controls on (2) RTU's, (10) VAV's, (1) Boiler Room \$ 109,00 Joliet Central Field House (JACE2) Replace Controls for (4) RTU's & (72) VAV's \$ 347,00 Joliet Central Main Building RTU's & VAV's (JACE3) Replace Controls on (4) RTU's & (41) VAV's \$ 222,00 Joliet Central Main Building RTU's & VAV's (JACE4) Replace Controls on (4) RTU's & (48) VAV's & (19) FPB's \$ 299,00 Joliet Central Main Building VAV's (JACE5) Replace Controls on (86) VAV's \$ 316,00 Joliet Central Student Center (JACE6) Integrate Trane Bacnet Equipment (4) RTU's, (6) FPB's, (15) VAV's \$ 122,00 Joliet West Tridium BAS Server Merge two existing Tridium servers into one \$ 38,00 Joliet West Field House Replace Controls on (4) RTU's for Fieldhouse \$ 91,00 Joliet West Building E Replace Controls on (34) VAV's in E-Building (PMI) \$ 198,60 Joliet West Building A Boiler Replace Controls for Main Boiler Plant with VFD's (PMI) \$ 137,00 Joliet West Building A Replace Controls for (3) MAU's for Shops (PMI) \$ 49,00 Joliet West Building A Replace Controls for (3) MAU's for Shops (PMI) \$ 49,00 Joliet West Building A Replace Controls for (3) MAU's for Shops (PMI)	
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Joliet West Building A Replace Controls for (3) MAU's for Shops (PMI) \$ 49,00	
Joliet West Building F&C Replace Controls on (3) RTU's for Kitchen/Café/Band (PMI) \$ 71,00	_
Joliet West Building H Replace Controls for Boiler Plant \$ 40,00	0 2026
Joliet West Building H Replace Controls for (1) RTU and (14) VAV's \$ 94,00	0 2026
Joliet West Unit Ventilators Replace Controls on (12) Pneumatic Unit Ventilators \$ 166,00	0 2026
Joliet West Building B Replace Controls on Principals Area \$ 64,00	0 2026
Joliet West Building G Replace Controls on AHU's and VAV's \$ 93,00	2026
Admin Superintendents Office Replace Controls and Add (6) new VAVs \$ 169,00	0 2027
Admin Offices, Other Replace Controls for Business Office, Boardroom, Auditorium \$ 129,60	
Admin Boiler Plant and Preschool Replace Controls for Boiler Plant and Preschool Area \$ 125,00	
2026 Recommendation \$ 1,065,60	$\overline{+}$
2027 Recommendation \$ 1,063,00	_
2027 Recommendation \$ 1,108,12 2028 Recommendation \$ 1,152,40	_
Total \$ 3,386,13	_