Life Is On | Schneider Electric

**Proposal Name:** Lums Pond WWTF Modifications

**Quote Name:** Budget for Keystone

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**Proposal Number:** P-180831-449906

**Quote Number:** Q-471590

**Quote Date:**

**Through Addenda Number:** 0

**Sales Representative:** Bruce Bubeck

## Conditions of Sale

*This Quotation is subject to Coordinated Project Terms. See* https://www.schneider-electric.us/en/download/document/0100PL0043

## Clarifications and Exceptions

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**Proposal Name: Lums Pond WWTF Modifications**
**Quote Name: Budget for Keystone**

**Quote Number: Q-471590**

**Quote Date:**

| Seq # | Qty | Product Description |
|---|---|---|
| 1 | 1 | **Designation :**<br>**Product Details:**<br>1-Model 6 LVMCC-Model 6 MCC - Standard Package<br>----------<br>System Voltage: 480V 3PH 3W 60Hz<br>Max Available Fault Current (RMS) - 65kA<br>Control Power - 120Vac<br>15" Deep Construction<br>1/4" x 1" Horizontal Ground Bus, Tin Plated Copper<br>Class 1 Type B Wiring<br>65kA Bus Withstand Rating<br>General Purpose Type 1 Gasketed Enclosure<br>600A Tin Plated Copper Horizontal Bus<br>Standard Exterior Paint ANSI 49<br>Equipment Mounting Height 72"<br>Manual Vertical Bus Shutters<br>Rodent Barriers<br>RapidSource (CTO)<br>2 - Section(s) with 300A Tin Plated Copper Vertical Bus<br><br>DIMENSIONS AND WEIGHT<br>----------<br>Dimensions: 40.00"W X 15"D X 94.5"H<br>Approximate Weight: 1200.00 lbs / 544.32 kgs<br><br>INCOMING<br>----------<br>Incoming Connection: Cable<br>SPD Surge Counter<br>SPD 120kA Surge Rating for Wye Secondary Transformer - with disconnect<br><br>MAIN<br>----------<br>65kA Interrupting Rating<br>Main Breaker Top Entry 125A<br><br>FULL VOLTAGE NON-REVERSING STARTERS<br>----------<br>2 - 1/3 HP NEMA Size 1 FVNR Starter w/Circuit Breaker<br>2 - 2 HP NEMA Size 1 FVNR Starter w/Circuit Breaker<br><br>COMMON FULL VOLTAGE NON-REVERSING FEATURES<br>----------<br>Electronic Motor Circuit Protector<br>Start/Stop Push Button<br>#16 AWG MTW Control Wire<br>65kA Interrupting Rating<br>Melting Alloy Overload Relay<br>Control Power Transformer 100VA<br>22mm XB5 Pilot Devices<br>Hand-Off-Auto Selector Switch<br>Motor On LED Pilot Light Red<br><br>FEEDERS<br>----------<br>1 - Compac 6 Circuit Breaker Branch Feeder 25A<br>65kA Interrupting Rating<br>1 - Compac 6 Circuit Breaker Branch Feeder 70A<br>65kA Interrupting Rating<br>2 - Compac 6 Circuit Breaker Branch Feeder 30A<br>65kA Interrupting Rating<br>2 - Compac 6 Circuit Breaker Branch Feeder 15A<br>65kA Interrupting Rating |

MISCELLANEOUS DEVICES
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1 - Surge Protection Device
3 - 12" Prepared Space
1 - 6" Prepared Space

| REV | DESCRIPTION | BY | DATE | | | | | | | | | | | | |
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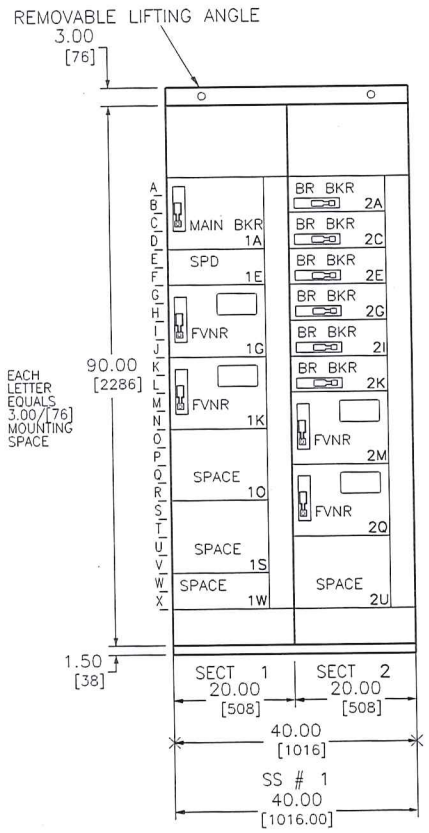


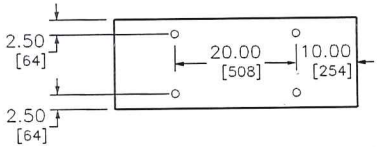


ANCHOR DETAIL

DUAL DIMENSIONS: INCHES MILLIMETERS

| | | | |
|---|---|---|---|
| JOB NAME: | Lums Pond WWTF Modifications | EQUIPMENT DESIGNATION: | |
| JOB LOCATION: | | EQUIPMENT TYPE: | MODEL 6 MOTOR CONTROL CENTER |
| DRAWN BY: | (Q2C) | DRAWING TYPE: | ELEVATION |
| ENGR: | | SQUARE D by Schneider Electric | |
| DATE: | August 31 2018 | | |
| DRAWING STATUS: | QUOTE | DWG# FQ-471590-11820671-01 | PG 1 OF 3 REV - |

| REV | DESCRIPTION | BY | DATE | - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- |
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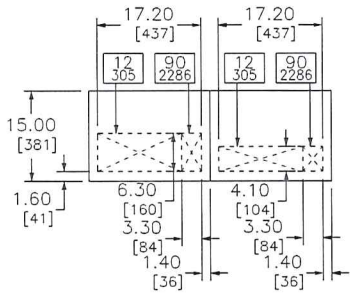
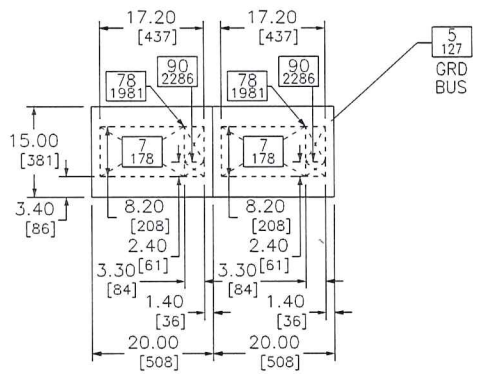



TOP VIEW




FLOOR VIEW

CROSSED AREA REPRESENTS CONDUIT ENTRY AREA. NUMBERS IN BOXES INDICATE VERTICAL CLEARANCE TO NEAREST OBSTRUCTION.

DUAL DIMENSIONS: INCHES / MILLIMETERS

| | | | |
|---|---|---|---|
| JOB NAME: | Lums Pond WWTF Modifications | EQUIPMENT DESIGNATION: | |
| JOB LOCATION: | | EQUIPMENT TYPE: | MODEL 6 MOTOR CONTROL CENTER |
| DRAWN BY: | (02C) | DRAWING TYPE: | ELEVATION |
| ENGR: | | SQUARE D by Schneider Electric | |
| DATE: | August 31 2018 | | |
| DRAWING STATUS: | QUOTE | DWG# FQ-471590-11820671-01 | PG 2 OF 3 REV - |

| REV | DESCRIPTION | BY | DATE | | | | | | | | | | |
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## GENERAL NOTES

Class 1 Type B Wiring

## PRODUCT DESCRIPTION AND RATINGS

### POWER SYSTEM DATA:

480V 3PH 3W 60Hz
SHORT CIRCUIT RATING: 65kA
POWER ENTERS: Main Breaker Top Section 1
CONTROL POWER: 120Vac

### BUS SYSTEM DATA:

MAIN HORIZONTAL BUS: 600 Amp Copper/Tin Plated / 1.5"
BUS BRACING: 65kA
VERTICAL BUS: 300 Amp Tin Plated Copper
HORIZONTAL GROUND BUS: .25" X 1.0" (6.35mm X 25.4mm) Tin Plated Copper
Units Securely Grounded To Structure

### ENCLOSURE DATA:

ENCLOSURE TYPE: 15" DEEP Type 1A
EXTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey
INTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey
REMOVABLE 3" [76mm] LIFTING ANGLE

### STRUCTURE MODIFICATIONS:

Ground Bus Lug
Rodent Barriers 1,2
Manual Bus Shutters 1,2
Main Section Partition 1

### EQUIPMENT WEIGHT:

SHIPPING SPLIT # 1: 1200.00 Lbs. (544.32 Kg.)
TOTAL LINEUP WEIGHT (APPROX): 1200.00 Lbs. (544.32 Kg.)

### PRODUCT ACCESSORIES:

See Unit Features

| | | | |
|---|---|---|---|
| JOB NAME: | Lums Pond WWTF Modifications | EQUIPMENT DESIGNATION: | |
| JOB LOCATION: | | EQUIPMENT TYPE: | MODEL 6 MOTOR CONTROL CENTER |
| DRAWN BY: | (Q2C) | DRAWING TYPE: | ELEVATION |
| ENGR: | | SQUARE D by Schneider Electric | |
| DATE: | August 31 2018 | | |
| DRAWING STATUS: | QUOTE | DWG# FQ-471590-11820671-01 | PG 3 OF 3 REV - |

| REV | DESCRIPTION | BY | DATE | - | ---- | -- | --/--/-- | - | ---- | -- | --/--/-- |
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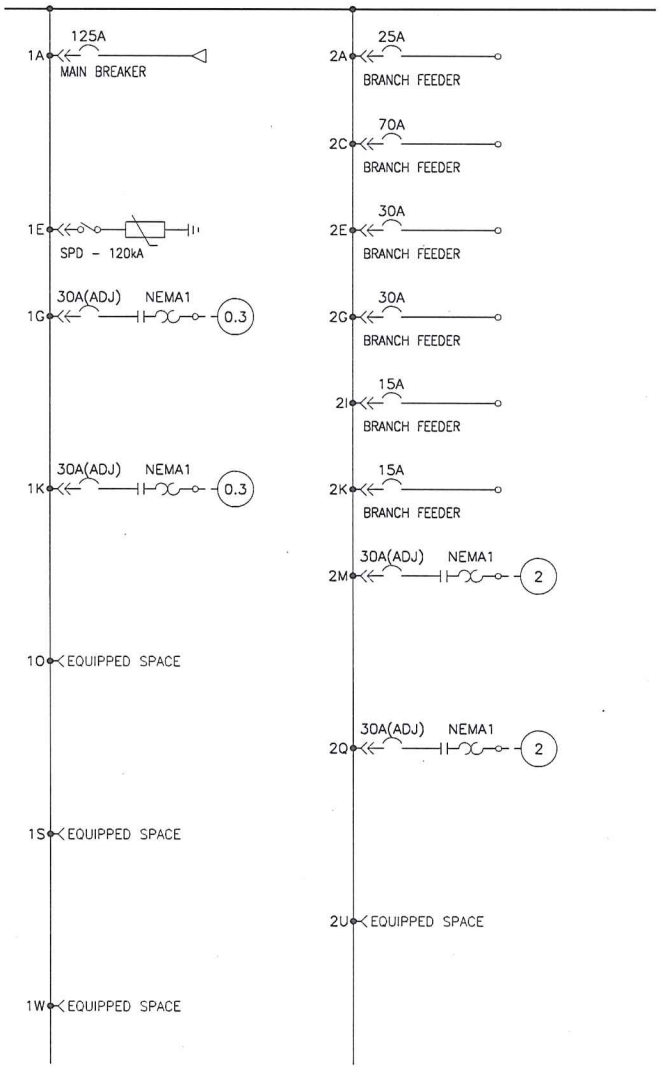


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|---|---|---|---|
| JOB NAME: | Lums Pond WWTF Modifications | EQUIPMENT DESIGNATION: | |
| JOB LOCATION: | | EQUIPMENT TYPE: | MODEL 6 MOTOR CONTROL CENTER |
| DRAWN BY: | (Q2C) | DRAWING TYPE: | ONE LINE DIAGRAM |
| ENGR: | | SQUARE D by Schneider Electric | |
| DATE: | August 31 2018 | | |
| DRAWING STATUS: | QUOTE | DWG# 00-471590-11820671-01 | PG 1 OF 1 REV - |

| REV | DESCRIPTION | BY | DATE | | | | | | | | | | |
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| – | ---- | -- | --/--/-- | – | ---- | -- | --/--/-- | – | ---- | -- | --/--/-- | | |

| UNIT LOC | UNIT DESIGNATIONS | UNIT TYPE | SIZE | HP | FRAME AMPS | TRIP AMPS | CONTROL SOURCE | VA | FUSE SIZE PRI | FUSE SIZE SEC | INTERLOCKS NO | INTERLOCKS NC | PILOT DEVICES: LED 22 mm ** ON LIGHT | OFF LIGHT | ADDL P/L | SS / PB | OTHER UNIT FEATURES | ELEMENTARY # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | MAIN | MAIN BKR | | | HJ 150 | 125 | | | | | | | | | | | 14-2/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-01 |
| 1E | SURGE PROTECTION DEVICE | SPD | 120kA | | SW 30 | | | | | | | | | | | | SOLIDLY GROUNDED, SURGE COUNTER | EQ-471590-11820671-02 |
| 1G | 1/3HP FVNR | FVNR | NEMA 1 | 0.3 | HJ 150 | ADJ 30 | CONTROL TRANSFORMER | 100 | .50 | 1.00 | | | RED | | | START/STOP PB HOA SS | #16 AWG MTW CONTROL WIRE, MELTING ALLOY O/L, MOTOR CIRCUIT PROTECTOR | EQ-471590-11820671-03 |
| 1K | 1/3HP FVNR | FVNR | NEMA 1 | 0.3 | HJ 150 | ADJ 30 | CONTROL TRANSFORMER | 100 | .50 | 1.00 | | | RED | | | START/STOP PB HOA SS | #16 AWG MTW CONTROL WIRE, MELTING ALLOY O/L, MOTOR CIRCUIT PROTECTOR | EQ-471590-11820671-03 |
| 1O | 12" SPACE | SPACE | | | | | | | | | | | | | | | | |
| 1S | 12" SPACE | SPACE | | | | | | | | | | | | | | | | |
| 1W | 6" SPACE | SPACE | | | | | | | | | | | | | | | | |
| 2A | 25 AMP CB | 6" BRANCH BKR | | | HJ 150 | 25 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-04 |
| 2C | 70 AMP CB | 6" BRANCH BKR | | | HJ 150 | 70 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-05 |
| 2E | 30 AMP CB | 6" BRANCH BKR | | | HJ 150 | 30 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-06 |
| 2G | 30 AMP CB | 6" BRANCH BKR | | | HJ 150 | 30 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-06 |
| 2I | 15 AMP CB | 6" BRANCH BKR | | | HJ 150 | 15 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-07 |
| 2K | 15 AMP CB | 6" BRANCH BKR | | | HJ 150 | 15 | | | | | | | | | | | 14-3/0AWG 1 LUG/PH, 80% RATED, AL MECH LUG AL/CU CABLE | EQ-471590-11820671-07 |
| 2M | 2HP FVNR | FVNR | NEMA 1 | 2 | HJ 150 | ADJ 30 | CONTROL TRANSFORMER | 100 | .50 | 1.00 | | | RED | | | START/STOP PB HOA SS | #16 AWG MTW CONTROL WIRE, MELTING ALLOY O/L, MOTOR CIRCUIT PROTECTOR | EQ-471590-11820671-03 |
| 2Q | 2HP FVNR | FVNR | NEMA 1 | 2 | HJ 150 | ADJ 30 | CONTROL TRANSFORMER | 100 | .50 | 1.00 | | | RED | | | START/STOP PB HOA SS | #16 AWG MTW CONTROL WIRE, MELTING ALLOY O/L, MOTOR CIRCUIT PROTECTOR | EQ-471590-11820671-03 |
| 2U | 12" SPACE | SPACE | | | | | | | | | | | | | | | | |
| UNIT LOC | UNIT DESIGNATIONS | UNIT TYPE | SIZE | HP | FRAME AMPS | TRIP AMPS | CONTROL SOURCE | VA | PRI | SEC | NO | NC | ON LIGHT | OFF LIGHT | ADDL P/L | SS / PB | OTHER UNIT FEATURES | ELEMENTARY # |
| | | | | | | | | | FUSE SIZE | | INTERLOCKS | | PILOT DEVICES: LED 22 mm ** | | | | | |

Change to 20A

Start/stop PB not required.

| | |
|---|---|
| JOB NAME: | Lums Pond WWTF Modifications |
| JOB LOCATION: | |
| DRAWN BY: | (02C) |
| ENGR: | |
| DATE: | August 31 2018 |
| DRAWING STATUS: | QUOTE |
| EQUIPMENT DESIGNATION: | |
| EQUIPMENT TYPE: | MODEL 6 MOTOR CONTROL CENTER |
| DRAWING TYPE: | UNIT INFORMATION |
| | SQUARE D by Schneider Electric |
| DWG# | IQ-471590-11820671-01 |
| PG 1 OF 1 | REV – |