

## Board Agenda

### Special Meeting

**Wednesday, November 10, 2021**

Camrosa Board Room

5:00 P.M.

#### TO BE HELD REMOTELY

*In light of public health responses to COVID-19, the Camrosa office remains closed to the public. Board meetings are accessible to the public only via web-based teleconference, as described below.*

To participate via the web to see the board meeting presentation, click <https://us02web.zoom.us/j/9235309144> on your computer, tablet, or smartphone. You'll need to download and install the ZOOM app before logging on.

*If you'd like to make a comment, you'll have to log in via the app so we can identify you and invite you to participate.*

To listen in via phone, call **(669) 900-6833**; when prompted, enter the meeting ID: **923 530 9144**.

#### Call to Order

#### Public Comments

At this time, the public may address the Board on any item not appearing on the agenda which is subject to the jurisdiction of the Board. Persons wishing to address the Board should inform the Zoom host prior to the meeting or make themselves known when the meeting chair asks for comments. All comments are subject to a 5-minute time limit.

Matters appearing on the Consent Agenda are expected to be non-controversial and will be acted upon by the Board at one time, without discussion, unless a member of Board or the Staff requests an opportunity to address any given item. Items removed from the Consent Agenda will be discussed at the beginning of the Administrative Items. Approval by the Board of Consent Items means that the recommendation of the Staff is approved along with the terms and conditions described in the Board Memorandum.

#### Primary Agenda

**CLOSED SESSION:** The Board may enter a closed session to confidentially discuss litigation matters as authorized by Government code 54956.9.

##### **1. Closed Session Conference with Legal Counsel – Pending Litigation**

**Objective:** To confer with and receive advice from counsel regarding pending litigation.

**Action Required:** No action necessary; for information only.

## Primary Agenda (Cont.)

### 2. **\*\*Purchase GAC Motor Control Centers**

**Objective:** Procure a motor control center (MCC) for the granular activated carbon (GAC) treatment plant at the Conejo Wellfield.

**Action Required:** Authorize the General Manager to issue a purchase order to Royal Industrial Solutions in the amount of \$1,054,110.97 for the MCC for the Conejo Wellfield GAC treatment plant.

## Comments by General Manager; Comments by Directors; Adjournment

PLEASE NOTE: The Board of Directors may hold a closed session to discuss personnel matters or litigation, pursuant to the attorney/client privilege, as authorized by Government Codes. Any of the items that involve pending litigation may require discussion in closed session on the recommendation of the Board's Legal Counsel.

Note: \*\* indicates agenda items for which a staff report has been prepared or backup information has been provided to the Board. Copies of the full agenda are available for review at the District Office and on our website at [www.camrosa.com](http://www.camrosa.com).

**November 10, 2021**  
**Special Meeting**

Board of  
Directors  
Agenda Packet

## Board Memorandum

November 10, 2021

**To:** Board of Directors

**From:** General Manager

**Subject:** Closed Session Conference with Legal Counsel – Pending Litigation

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**Objective:** Confer with and receive advice from counsel regarding pending litigation.

**Action Required:** No action necessary; for information only.

**Discussion:** Pending litigation may be discussed in closed session pursuant to paragraph (1) of subdivision (d) of Government Code section 54956.9.

## Board Memorandum

November 10, 2021

**To:** Board of Directors

**From:** Ian Prichard, Assistant General Manager

**Subject:** Prepurchase GAC MCC

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**Objective:** Procure a motor control center (MCC) for the granular activated carbon (GAC) treatment plant at the Conejo Wellfield.

**Action Required:** Authorize the General Manager to issue a purchase order to Royal Industrial Solutions in the amount of \$1,054,110.97 for the MCC for the Conejo Wellfield GAC treatment plant.

**Discussion:** The MCC will house all the electrical, automation, and SCADA equipment for the Conejo Wellfield GAC treatment plant. The District has standardized MCCs across our infrastructure using Allen-Bradley equipment and Royal as sole-source distributor.

Prepurchasing allows the District to cut into what is expected to be significant lead time on this equipment, rather than waiting for the contractor to order it. District staff, our design engineers on the GAC plant from Provost & Pritchard, and their electrical subcontractor, Pezzoni Engineering, contributed all the necessary specifications for Royal to complete the proposal.

There are sufficient funds in the Conejo Wellfield Treatment (1,2,3,-TCP) capital project budget for this purchase.



## Switchgear Bill of Material

November 3, 2021  
 Project Name: **Camrosa - Conejo Treatment Plant**  
 Proposal Number: **21-ML104\_REV2**

Quoted By: Mason Luna  
 Royal Industrial Solutions  
 Ventura, CA

### 1. FREIGHT TERMS AND VALIDITY OF QUOTED PRICE:

- A. FOB Destination.
- B. Quote valid for 30 days. After 30 days, this quotation is subject to reevaluation and revision.
- C. Payment: NET 10 Days upon delivery of equipment via ACH
- D. Standard CED terms and conditions apply. Full terms and conditions available upon request.

### 2. NOT INCLUDED IN QUOTED PRICE:

- A. Miscellaneous Materials that are not specifically identified on this bill of material.
- B. Services and Labor that are not specifically identified on this bill of material.

### 3. CORONAVIRUS NOTE

*Royal Industrial Solutions shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof. Royal Industrial Solutions is not responsible for Acts of God.*

### Item Qty Description

1	1	MSB - per attached IEM BOM (ASCO ATS Start Up is Included)
2	1	Integrated Power Center - per attached IEM BOM
*PLC Components and Installation of those components are Included. See attached BOM.		
*VersaView and Stratix Switch have been included		
3	1	MCC-2 _ Per attached Rockwell BOM
4	1	MCC-3 _ Per attached Rockwell BOM
5	1	MCC-4 _ Per attached Rockwell BOM
*Estimated Startup and Freight pricing are included.		
*2 Year Warranty for VFD's is included.		

Total for items 1-5:	<b>\$960,131.63</b>
	(Tax = \$65,063.34)

			(UNIT)	(TAX)
6	1	Arc Flash / Short Circuit Study	\$4,720.00	
7	1	Arc Flash Label Installation	\$1,360.00	
8	1	Protective Device Coordination	\$10,640.00	
Includes: Data Collection & Remote Call Meetings				
9	1	Electrical Safety Training 1	\$5,240.00	
10	1	NFPA 70E Books (5 Students)	\$800.00	\$58.00
11	1	Electrical Safety Training 2	\$5,240.00	
12	1	NFPA 70E Books (5 Students)	\$800.00	\$58.00

Total for Items 6-12:	<b>\$28,800.00</b>
	(Tax = \$116)

Total Lot for above BOM plus tax:	<b>\$1,054,110.97</b>
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**Project Specific Clarifications:**

- (Studies)** \*Specification 260573-3.03 (Adjusting) - These services are not included in above pricing.  
\*Label installation will be done one day prior to arc flash training. If more than one day is required between the install and training, there will be additional travel and living expenses of \$625 perday  
\*Meetings will be via remote call.  
\*There are additional COVID-19 related protocols in place in regards to the training sessions.  
A safety waiver and list of safety protocols will be provided when the order is placed.
- (IEM)** \*PLC components and installation of those components into the PCM section of the ICP, has been added to this proposal per the direction of Camrosa.
- (Rockwell)** \*Drawings show the MCC's as Main Lug Only. Main breakers have been added to each MCC per the direction of Camrosa, since MSB will not be in line of sight.  
\*The VFD's have been changed from PowerFlex 753 to PowerFlex 755 per the direction of Camrosa.  
\*2-Year Warranty for VFD'S has been added per the direction of Camrosa.  
\*A DV/DT Filter has been added to MCC-4 per the direction of Camrosa.  
\*Pricing for Class II Wiring was factored in previously, and is accounted for in this proposal as well.  
\*Qty:4 Eaton UPS's are included in this proposal  
\*Pricing for the UPS's to be mounted in PLC section has been added per the direction of Camrosa.  
\*\*Installation of the UPS's is by others.



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## BOM

**Date: 10/22/2021**

**To: ROYAL**

**Project: CAMROSA WATER DISTRICT - CONEJO TREATMENT PLANT**

IEM is pleased to offer the following quotation for your consideration. Any order resulting from this quotation will be accepted by IEM only on the basis of IEM's General Terms and Conditions of Sale. Notice of exception to any conflicting requirements is hereby given. This quotation will expire thirty calendar days from the date of issue and can be withdrawn by notice within that period. Any order is subject to credit review and/or arrangements for payment in a manner acceptable to IEM prior to acceptance by IEM. Specifically excluded from this quotation is any IEM warrant of merchantability or fitness for a particular purpose for the IEM equipment described.

ITEM	QTY	DESCRIPTION
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1	1	MAIN / DISTRIBUTION SWBD – NEMA 3R OUTDOOR ANSI #49 3PH-4W 277/480V UL 891 2000 AMP CU BUS BRACED FOR 65KA, CONSISTING OF: 1 - EURSERC UTILITY CABLE PULL, CT & METERING COMPARTMENT SECTION: 1 - MAIN BREAKER SECTION: 1 - 2000A E.O. FIXED-MOUNT SIEMENS WL 65KAIC INSULATED CASE POWER BREAKER ETU776 LSIG (GRAPHICAL DISPLAY, GF ALARM & TRIP) PROGRAMMER WITH 4A/4B AUX SW'S AND THESE ACCESSORIES: EMO,ST,RCS,OC,PBC,MBM 1 - ARC FLASH MAINTENANCE SWITCH 1 - VOLTAGE/CURRENT TEST SWITCH (10-PT) 1 - POWER METER W/DISPLAY (ALLEN BRADLEY AB 5000) 1 - CPT W/CLF 3 - 2000:5 CT'S 3 - PT'S W/CLF 1 - 200KA/PH SPD W/DISCONNECT 1 - ATS SECTION: 1 - ASCO 7000 SERIES BYPASS TRANSFER SWITCH - AUTOMATIC DELAYED TRANSITION - G FRAME 480V/60HZ, 3 POLE, 3P/4W - G7ADTB32000N5X0,31BG,37B,44G,82E,150B 1 - WIREWAY SECTION: 1 - DISTRIBUTION SECTION: 2 - 1200A FRAME/3P 65KAIC MOLDED CASE BREAKER W/ LSI TRIP 2 - ARC FLASH MAINTENANCE SWITCHES
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1 - 600A FRAME/3P 65KAIC MOLDED CASE BREAKER W/ LSI TRIP  
1 - ARC FLASH MAINTENANCE SWITCH  
5 - 60A FRAME/3P 65KAIC MOLDED CASE BREAKER  
1 - (LOT) MTG HDWE  
1 – LOT MISCELLANEOUS COMPONENTS:  
1 - LOT OF CRIMP LUGS  
4 - STRIP HEATERS  
2 - THERMOSTATS  
2 - GCFI RECEPTACLE  
4 - LED LIGHTS  
DESIG:MSB

2      1      INTEGRAL POWER CENTER – NEMA 3R OUTDOOR  
1 - PMC SECTION 36"W X 30"D X 90"H  
1 - TRANSFORMER AND LIGHTING PANEL SECTION 38"W X 36"D X 90"H  
1 – 480V - 60A FRAME/3P 65KAIC MOLDED CASE BREAKER  
1 – 208/120V - 150A FRAME/3P 65KAIC MOLDED CASE BREAKER  
1 - (LOT) MTG HDWE  
1 - PIU PANEL - INDOOR 3PH-4W 120/208V 10KAIC MCB 42 CIRCUIT 150A CU "LP1"  
42 - 15-60/1  
1 - DRY TYPE XFMR - INDOOR 3PH 480V-120/208V  
150 DEG C RISE CU WOUND DOE 2016 RATED  
45 KVA (TX-L1)  
1 - MISCELLANEOUS COMPONENTS  
2 - STRIP HEATERS  
1 - THERMOSTAT  
DESIG:POWER CENTER

3      1      DAY ASCO ATS START-UP

This quotation is per this bill of material only, any change to bill of material will result in a change in price. This quotation represents IEM's best interpretation.

Drawings: **4 – 5 weeks after receipt of order**

Shipment: **28 – 30 weeks after release for manufacturing**



Notes:

1. Safety switches, enclosed circuit breakers, starters, lighting contactors, or other miscellaneous equipment are not included unless listed as a separate item within this bill of material.
2. No field installation, testing, training, power study, arc flash study, or seismic calculations are included.
3. No fuses are provided with this bill of material.
4. No panel schedule were provided for this quotation. Any changes to the bill of material above will change the total package price.
5. IEM takes exception to Square D I-Line interior and breakers. IEM has provide a Siemens for this proposal.
6. MCC's are not included with this proposal and are by others.
7. Sales tax is not included; IEM only collects tax in California, Massachusetts and North Carolina
8. Quote is valid for 30 days.
9. Freight prepaid and allowed (F.O.B. Point of Shipment).



## PLC Component BOM – PCM Section in Integrated Power Center

Item	Product	Qty
1	<b>1769-L33ERM</b> <i>CompactLogix 5370 L3 Controllers, Dual Ethernet w/DLR capability, 2MB memory, 16 I/O Expansion, 32 Ethernet IP Nodes, 8 Axis CIP motion with Kinematics function. Controllers are shipped with 1GB SD card and can support up to 2GB SD card.</i>	1
2	<b>1769-IF8</b> <i>8 Channel Analog Current/Voltage Input Module</i>	3
3	<b>1769-OF8C</b> <i>8 Channel Analog Current Output Module</i>	1
4	<b>1769-IA16</b> <i>16 Point 120 VAC Input Module</i>	5
5	<b>1769-PA4</b> <i>L3x &amp; L3y CompactLogix Power Supplies 120/240 VAC Input 4A @ 5VDC, 2A @ 24VDC</i>	1
6	<b>1769-ECR</b> <i>Right End Cap/Terminator</i>	1
7	<b>1492-H4</b> <i>1492-H Finger-Safe Terminal Blocks, H-Block,Single Circuit Fuse Block, Code 4,Neon Blown Fuse Indicator, #30 - #12 AWG, Black (Standard),No Bulk Pack (Single Block)</i>	80
8	<b>1492-N37</b> <i>1492 Terminal Block Accessories End Barrier , Grey (Standard)</i>	4
9	<b>1492-EAHJ35</b> <i>1492 Terminal Block Accessories End Anchor, End Anchor</i>	4
10	<b>1492-H5</b> <i>1492-H Finger-Safe Terminal Blocks, H-Block,Single Circuit Fuse Block, Code 5,LED Blown Fuse Indicator, #30 - #12 AWG, Black (Standard),No Bulk Pack (Single Block)</i>	32
11	<b>1492-N37</b> <i>1492 Terminal Block Accessories End Barrier , Grey (Standard)</i>	10
12	<b>1492-EAHJ35</b> <i>1492 Terminal Block Accessories End Anchor, End Anchor</i>	10
13	<b>199-DR1</b> <i>DIN Mounting Rail, Zinc Plated, Chromated Steel, 35mm x 7.5mm DIN Rail, 1 Meter (Pkg. Qty. 10)</i>	6
14	<b>1492-J4</b> <i>1492-J IEC Terminal Block, One-Circuit Feed-Through Block, 4 mm (# 22 AWG - # 10 AWG) or 2.5 mm (# 22 AWG - # 12 AWG), Standard Feedthrough, Gray (Standard),</i>	250
15	<b>1492-EBJ16</b> <i>1492 Terminal Block Accessories , Grey (Standard)</i>	6

16	<b>1606-XLE240E</b> <i>1606-XLE240E: Essential Power Supply, 24-28V DC, 240 W, 120/240V AC Input Voltage</i>	1
17	<b>1492-JG4</b> <i>1492-J IEC Terminal Block, One-Circuit Feed-Through Ground Block, 4 mm (# 22 AWG - # 10 AWG) or 2.5 mm (# 22 AWG - # 12 AWG), Standard Feedthrough, Green / Yellow Stripe (Standard),</i>	80
18	<b>1497-K-BASX-0-N</b> <i>1497 - CCT Standard Transformer, 1000VA, 240/480V 60Hz / 220/440V 50Hz Primary, 110V 50Hz / 120V 60Hz Secondary, 0 Pri - 0 Sec Fuse Blocks, No Cover/ No Sec. Fuse</i>	2
19	<b>DRUB15</b> <i>5-15R Din Rail mounted receptacle</i>	2

## Added Components for PCM Section – 11/3/2021

Item	Product	Qty
1	<b>6200P-22WS3C1</b> <i>Industrial Computer, 21.5-inch Widescreen Display, Projected Capacitive Multi-Touch Screen, 128GB SSD, Dual Port Ethernet , Windows 10 IoT Enterprise (64-bit), Single Display Output, No Pre-Installed Software, 24 VDC</i>	1
2	<b>1783-BMS20CGN</b> <i>Stratix 5700 Switch, Managed, 16 Fast Ethernet Copper Ports, 2 Gigabit Ethernet Combo Ports, 2 Fast Ethernet Fiber SFP Slots, Full Software, CIP Sync, NAT, DLR</i>	1
2.1	<b>1585J-M8TBJM-1M9</b> <i>Male RJ45 to Male RJ45 Patchcord, Unshielded Twisted Pair, Teal TPE Cable, 1.9 m</i>	1
3	<b>1783-SFP100LX</b> <i>Stratix Fiber SFP, 100 Mbit connectivity over single-mode fiber</i>	2
4	<b>1783-SFP1GLX</b> <i>Stratix Fiber SFP, 1000 Mbit connectivity over single-mode fiber</i>	2

# Rockwell Automation

## Centerline 2100 Motor Control Center

### MCC Details

Project Name: CWD - Conejo Wells  
Project Item: MCC-2 - N3R  
Project ID #: 5271772/4

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:02

The details of the proposed motor control center are as follows:

Category	Description
Total Section(s)	9
Total Shipping Block(s)	8
Section Depth	Front Mounted, 20" Deep
Section Height	90" High
Enclosure	3R - Outdoor Non-Walk-In
Designed For Use With	Power System Type: Wye, 3-phase, 4-wire with solidly grounded neutral
MCC Connection Type	Main Circuit Breaker
Incoming Cable Entry	Bottom, Section 1
Main Bus Rating	1200A
Main Bus Material	Copper / Tin Plated
Main Bus Bracing	65kA (rms symmetrical)
Horizontal Neutral Bus Rating	Half of Main Bus Rating
Horizontal Neutral Bus Location	Below Main Bus
Horizontal Neutral Bus Supplied	In Section(s): 1, 2
Horizontal Ground Bus	1/4" X 1", Bottom, Unplated Copper
Vertical Ground Bus	Unit Load Copper and Plug-in Copper
Stab Opening Protection	Automatic Shutters
Master Nameplate	No

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Basic Structure Information

Project Name: CWD - Conejo Wells  
Project Item: MCC-2 - N3R  
Project ID #: 5271772/4

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:02

### Motor Control Center Details

This MCC(s) was developed using an available fault current of 50,001 to 65,000 A.  
MCC configuration & pricing subject to change, if actual Available Fault Current differs.

### Motor Control Center Details

**Power System Type:** Wye, 3-phase, 4-wire with solidly grounded neutral  
**Voltage:** 480 Volts / 60 Hertz  
**Available Fault Current:** 50,001 to 65,000 A  
**Unit Nameplate Type:** Acrylic - Black letters on white  
**Wiring Type:** B-T Control and Power Terminal Blocks  
**Wiring Diagram Location:** Central location  
**Class II Diagram:** TBD  
**Class II Wire Count:** 1  
**Class II Wire Through:** Top Wireway  
**Arc Resistant MCC:** No  
**IntelliCENTER Network:** Ethernet  
**IMC Device Firmware:** Upgraded to latest available version (saves up to 1 hour of customer configuration time per section)

### Incoming Line Details

**MCC Connection Type:** Main Circuit Breaker  
**Incoming Line Cable Entry:** Bottom Mounted

### Bus Details

**Main Bus Rating:** 1200A  
**Main Bus Material:** Copper / Tin Plated  
**Main Bus Bracing:** 65kA (rms symmetrical)  
**Insulated Bus:** None Selected

**Horizontal Ground Bus Size:** 1/4" X 1"  
**Horizontal Ground Bus Plating:** Unplated Copper  
**Horizontal Ground Bus Location:** Bottom  
**Vertical Ground Bus Type:** Unit Load Copper and Plug-in Copper  
**Incoming Ground Lug Size:** #6 AWG - 250 kcmil (2 Supplied as Standard)  
**Incoming Ground Cable Size:** None Selected

**Horizontal Neutral Bus Rating:** Half of Main Bus Rating  
**Horizontal Neutral Bus Location:** Below Main Bus

### Enclosure Details

**Enclosure Type:** 3R - Outdoor Non-Walk-In  
**NEMA 3R/4 Lifting Angle:** No  
**Section Depth:** Front Mounted, 20" Deep  
**Enclosure Depth:** Front Mounted, 30.12" Deep  
**Section Height:** 90" High  
**Stab Opening Protection:** Automatic Shutters  
**Wireway Tie Bar:** Yes  
**Space Heater Voltage:** 120V  
**Space Heater Thermostat:** 1 Per Section

**Total Shipping Block(s):** 8  
**Total Section(s):** 9  
**Total Unit(s):** 17

### Ethernet Network Information

Full Ethernet Network Information can be found on the One Line Diagram associated with this project item. This drawing can be obtained by requesting Pre-order drawings through PowerControl Builder.

### Section Modifications (Qty/Mods)

#### **MCC Level Mods:**

Class II interwiring or Limited Class II between units in MCC (30 wires max; a 15% adder is applied if more than 30 wires) (List price is per wire 30 and under).

#### **Section 1 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 2 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 3 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 4 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 5 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 6 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 7 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 8 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 9 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

Section Number	Section Width (inches)	Options/Modifications
1	20"	600A Vertical Bus Horizontal Neutral Bus



2	20"	600A Vertical Bus Horizontal Neutral Bus
3	25"	N/A
4	25"	N/A
5	25"	N/A
6	25"	N/A
7	25"	N/A
8	20"	N/A
9	30"	N/A

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit List

Project Name: CWD - Conejo Wells  
 Project Item: MCC-2 - N3R  
 Project ID #: 5271772/4

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:02

ID	QTY	Catalog Number / Unit Description
1	1	2100-EPS8KB-30TGM-79U-751M-751S-768C / Ethernet Power Supply Unit with Circuit Breaker Thermal Magnetic (15A Trip)
2	1	2190-CKB-56M-79U-86W54CXB-751M-751S / Metering Unit - Bul 1426-M5 PM 5000 w/Ethernet
3	1	2100-SPKB-3-751M-751S / Surge Protective Device Unit - Wye w/solidly grd neut, 4-wire
4	2	2193F-AKB-79L-79U-751M-4031TGM / Feeder Circuit Breaker - 125A Frame Rating with 100A/20A Trip
5	1	2193F-AKB-79L-79U-751M-3434TGM / Feeder Circuit Breaker - 125A Frame Rating with 40A/40A Trip
6	5	2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A / PowerFlex 755 AC Drive w/CB - 125 HP with Circuit Breaker Thermal Magnetic (250A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
7	1	2197-WKBH-37TGM-79L-79U-751M-790A / Control & Lighting Transformer w/CB - 45.0 kVA with Circuit Breaker Thermal Magnetic (70A Trip)
8	1	2193LE-AKB327-40WT-31A27-111-751M / Lighting Panel Unit with Main Circuit Breaker - 100A - 27 Total Circuits
9	1	2100-GKC2X3B-31TGM-120-751M / Full Sect Blank Mtg Plate w/ or w/o Disc with Circuit Breaker Thermal Magnetic (20A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
10	1	2100-ESW20K-T10FDP-114-751M-751S / Stratix 5700 20-Port
11	1	2100-BK05 / Blank Unit Door - 0.5 Space Factor
12	1	2193MB-GKC-56TNMG-88HN-751M / Main Circuit Breaker - 1200A Frame Rating - Bottom Mounted with 1200A Trip w/ Maintenance Mode

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Description

Project Name: CWD - Conejo Wells  
Project Item: MCC-2 - N3R  
Project ID #: 5271772/4

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:02

#### General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz  
Power System Configuration: Wye, 3-phase, 4-wire with solidly grounded neutral  
Class I Wiring Type: B-T Control and Power Terminal Blocks  
NEMA Enclosure Type: 3R - Outdoor Non-Walk-In  
Available Fault Current: 50,001 to 65,000 A  
Unit Nameplate Type: Acrylic - Black letters on white  
Delivery Program: ENG

#### Unit Information

Description	Unit Features
<b>Unit Loc: 01A</b> <b>Del Prog: SCII</b> <b>Unit ID: 4</b> FCB - Feeder Circuit Breaker  <u><b>Rating</b></u> Dual 100A/20A  <u><b>Wiring Diagram</b></u> 10006415294  <u><b>Name Plate Information</b></u> SPARE  <u><b>Dual Unit</b></u> SPARE  <u><b>Overload Relay(s)</b></u> Motor Full Load Current (FLC) = Not Available	<b>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</b> Total Space Factor = 1 Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase  <u><b>Features Included</b></u> Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U) Mylar Device Markers (-751M)
<b>Unit Loc: 01C</b> <b>Del Prog: PEII</b> <b>Unit ID: 3</b> SPD - Surge Protective Device Unit  <u><b>Wiring Diagram</b></u> 10006415263  <u><b>Name Plate Information</b></u> SPD	<b>Catalog Number: 2100-SPKB-3-751M-751S</b> Total Space Factor = 0.5 Surge Protector Type: Wye w/solidly grd neut, 4-wire  <u><b>Features Included</b></u> Mylar Device Markers (-751M) Sleeve Type Markers (-751S)

<div>Unit Loc: 01DDel Prog: FT1</div> <div>Unit ID: 12</div> <div>MCB - Main Circuit Breaker</div> <div>Rating1200A</div>	<div>Catalog Number: 2193MB-GKC-56TNMG-88HN-751M</div> <div>Total Space Factor = 4.5</div> <div>Circuit Breaker: Electronic (LSIG) - Maint. Mode, 65kA at 480V (1200) with Frame Rating of 1200A (N6I Frame) w/ Maintenance Mode, Bottom Mounted, 1200A Trip, with Internal Ground Fault Protection</div> <div>Lugs Supplied: Std Mech/Lug Pads, 500 kcmil Size Wire, 4 Cables per Phase</div> <div>Features Included</div> <div>INC_NEUT_BUS Half-rated (-88HN)</div> <div>Engineered Spec(s)/Modification(s)</div> <div>(1) 140G Maintenance Mode - Switch Mode Selector Switch, Blue Indicator Light, &amp; Control components for K,M,N &amp; R Frame.</div> <div>(1) Engineered Modification and/or Custom Diagram</div>						
<div>Unit Loc: 02ADel Prog: PEII</div> <div>Unit ID: 10</div> <div>ENSW - Stratix 5700 20-Port</div> <div>Wiring Diagram10006415251</div> <div>Name Plate Information</div> <div>ETHERNET SWITCH</div> <div>Ethernet Information</div> <table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2100-ESW</td><td>192.168.1.3</td><td>255.255.255.0</td></tr></table> <div>No Cable Length</div> <div>Ethernet Switch Firmware Version : LATEST</div>	Device Type	IP Address	Subnet Mask	2100-ESW	192.168.1.3	255.255.255.0	<div>Catalog Number: 2100-ESW20K-T10FDP-114-751M-751S</div> <div>Total Space Factor = 1</div> <div>Full Stratix 5700 Firmware</div> <div>NAT (CIP Sync &amp; Gigabit Ports)</div> <div>Power Adapters (w/Unit Mtg)</div> <div>Features Included</div> <div>Locking Latch Provision (-114)</div> <div>Mylar Device Markers (-751M)</div> <div>Sleeve Type Markers (-751S)</div>
Device Type	IP Address	Subnet Mask					
2100-ESW	192.168.1.3	255.255.255.0					
<div>Unit Loc: 02CDel Prog: SCII</div> <div>Unit ID: 1</div> <div>ENPS - Ethernet Power Supply Unit</div> <div>Rating125A</div> <div>Wiring Diagram10006415245</div> <div>Name Plate Information</div> <div>ETHERNET</div> <div>POWER SUPPLY</div>	<div>Catalog Number: 2100-EPS8KB-30TGM-79U-751M-751S-768C</div> <div>Total Space Factor = 1.5</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (15A Trip)</div> <div>Disconnect Type = Circuit Breaker</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div>Features Included</div> <div>Unit Grd Stab Unplated Cu (-79U)</div> <div>Mylar Device Markers (-751M)</div> <div>Sleeve Type Markers (-751S)</div> <div>Redundant ENet Power Supply (-768C)</div>						

<div>Unit Loc: 02F      Del Prog: ENG</div> <div>Unit ID: 2</div> <div>METR - Metering Unit</div> <div><div>Wiring Diagram</div><div>10006415275</div></div> <div><div>Name Plate Information</div><div>POWER</div><div>METER</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2190</td><td>192.168.1.1</td><td>255.255.255.0</td></tr><tr><td>2190</td><td>192.168.1.2</td><td>255.255.255.0</td></tr></table><div>Cable Length : 2.49 m</div><div>Power Monitor Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2190	192.168.1.1	255.255.255.0	2190	192.168.1.2	255.255.255.0	<div>Catalog Number: 2190-CKB-56M-79U-86W54CXB-751M-751S</div> <div>Total Space Factor = 1.5</div> <div>Metering Type: Bul 1426-M5 PM 5000 w/Ethernet</div> <div>Ammeter Scale 1200</div> <div><div>Features Included</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Upgrade PM 5000 from M5 to M6,1426-M6E</div><div>(1) Engineered Modification and/or Custom Diagram</div></div>
Device Type	IP Address	Subnet Mask								
2190	192.168.1.1	255.255.255.0								
2190	192.168.1.2	255.255.255.0								
<div>Unit Loc: 02J      Del Prog: SCII</div> <div>Unit ID: 5</div> <div>FCB - Feeder Circuit Breaker</div> <div><div>Rating</div><div>Dual 40A/40A</div></div> <div><div>Wiring Diagram</div><div>10006415287</div></div> <div><div>Name Plate Information</div><div>SPARE</div></div> <div><div>Dual Unit</div><div>SPARE</div></div> <div><div>Overload Relay(s)</div><div>Motor Full Load Current (FLC) = Not Available</div></div>	<div>Catalog Number: 2193F-AKB-79L-79U-751M-3434TGM</div> <div>Total Space Factor = 1</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (40) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 40A/40A Trip</div> <div>Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</div> <div><div>Features Included</div><div>Unit Ground Load Connector Unplated Cu (-79L)</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div></div>									
<div>Unit Loc: 02L      Del Prog: SCII</div> <div>Unit ID: 4</div> <div>FCB - Feeder Circuit Breaker</div> <div><div>Rating</div><div>Dual 100A/20A</div></div> <div><div>Wiring Diagram</div><div>10006415294</div></div> <div><div>Name Plate Information</div><div>SPARE</div></div> <div><div>Dual Unit</div><div>SPARE</div></div> <div><div>Overload Relay(s)</div><div>Motor Full Load Current (FLC) = Not Available</div></div>	<div>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</div> <div>Total Space Factor = 1</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip</div> <div>Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</div> <div><div>Features Included</div><div>Unit Ground Load Connector Unplated Cu (-79L)</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div></div>									

<div>Unit Loc: 03A      Del Prog: ENG</div> <div>Unit ID: 6</div> <div>VFD - PowerFlex 755 AC Drive w/CB</div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>WELL NO. 4</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.4</td><td>255.255.255.0</td></tr></table><div>Cable Length : 2.9 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.4	255.255.255.0	<div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div> <div>Total Space Factor = 6</div> <div>Wiring: NEMA Type B wiring</div> <div>Output Current Rating: 156A</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div> <div>Human Interface Module: LCD full numeric keypad - Door Mounted</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.4	255.255.255.0					

<div><div>Unit Loc: 04A</div><div>Del Prog: ENG</div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>2A-BSTR-PMP</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.5</td><td>255.255.255.0</td></tr></table><div>Cable Length : 3.66 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.5	255.255.255.0	<div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div></div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.5	255.255.255.0					

<div><div>Unit Loc: 05A</div><div>Del Prog: ENG</div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>2B-BSTR-PMP</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.6</td><td>255.255.255.0</td></tr></table><div>Cable Length : 4.42 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.6	255.255.255.0	<div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div></div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.6	255.255.255.0					



<div><div><div>Unit Loc: 06A</div><div>Del Prog: ENG</div></div><div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div><div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div><div><div>Wiring Diagram</div><div>10006435909</div></div><div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>40-PMP-01</div></div><div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.7</td><td>255.255.255.0</td></tr></table><div>Cable Length : 5.18 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.7	255.255.255.0	<div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div><div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div><div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div></div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.7	255.255.255.0					

<div>Unit Loc: 07A      Del Prog: ENG</div> <div>Unit ID: 6</div> <div>VFD - PowerFlex 755 AC Drive w/CB</div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>40-PMP-02</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.8</td><td>255.255.255.0</td></tr></table><div>Cable Length : 5.95 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.8	255.255.255.0	<div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div> <div>Total Space Factor = 6</div> <div>Wiring: NEMA Type B wiring</div> <div>Output Current Rating: 156A</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div> <div>Human Interface Module: LCD full numeric keypad - Door Mounted</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.8	255.255.255.0					
<div>Unit Loc: 08A      Del Prog: SCII</div> <div>Unit ID: 11</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK05</div> <div>Total Space Factor = 0.5</div>						
<div>Unit Loc: 08B      Del Prog: ENG</div> <div>Unit ID: 8</div> <div>LPAN - Lighting Panel Unit</div> <div><div>Wiring Diagram</div><div>10005989973</div></div> <div><div>Name Plate Information</div><div>LP2</div></div>	<div>Catalog Number: 2193LE-AKB327-40WT-31A27-111-751M</div> <div>Total Space Factor = 2.5</div> <div>Panel Type &amp; Rating: Three Phase, 4-Wire, 120/208V, 100A, 27 total circuits</div> <div>Bolt-On Branch Breakers: None</div> <div><div>Features Included</div><div>(27) 20A 1-P CB (-31A27)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) 2193LE, Lighting Panel - Copper bus, unplated (Aluminum is standard), 100A (30 circuit maximum, 1or 3 phase)</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 2193LE, Lighting Panel - Wire panel to transformer, 100A</div></div>						

<p><b>Unit Loc: 08G</b>      <b>Del Prog: SCII</b>  <b>Unit ID: 7</b>  XFMR - Control &amp; Lighting Transformer w/CB</p> <p><u><b>Wiring Diagram</b></u>  10006415299</p> <p><u><b>Name Plate Information</b></u>  TX-LP2</p>	<p><b>Catalog Number: 2197-WKBH-37TGM-79L-79U-751M-790A</b>  Total Space Factor = 3  Secondary Wiring Fusing &amp; Rating: 3-Phase, 120/208V, 3 Fuse, 45.0 kVA  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (70A Trip)</p> <p><u><b>Features Included</b></u>  Unit Ground Load Connector Unplated Cu (-79L)  Unit Grd Stab Unplated Cu (-79U)  1 Aux and 1 Alarm-Internal-CB (-790A)</p>
<p><b>Unit Loc: 09A</b>      <b>Del Prog: ENG</b>  <b>Unit ID: 9</b>  PLAT - Full Sect Blank Mtg Plate w/ or w/o Disc</p> <p><u><b>Rating</b></u>  20A</p> <p><u><b>Wiring Diagram</b></u>  10006415257</p>	<p><b>Catalog Number: 2100-GKC2X3B-31TGM-120-751M</b>  Total Space Factor = 6</p> <p>Rating: 20A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (20A Trip)  Disconnect Type = Circuit Breaker  Required Section Width 30" Wide  Working Depth 14" Deep</p> <p><u><b>Features Included</b></u>  Omit horizontal power bus (-120)</p> <p><u><b>Engineered Spec(s)/Modification(s)</b></u>  (1) Customer Load Cables Exit(Bottom)  (1) Compact Logix 2MB Motion Controller,1769-L33ERM  (1) Engineered Modification and/or Custom Diagram  (4) 120V AC INPUT MODULE,1769-IA16  (2) 8 ANALOG INPUTS,1769-IF8  (1) POWER SUPPLY,1769-PA4  (2) Power Supply, 120W, 24VDC, 5A output, 120-240VAC input,1606-XLS120E  Note - 1606-XLE240E  (1) END CAP RIGHT,1769-ECR  (2) 1000VA Control Transformer-Fusing/Fuse Block Included ,1497-K-BASX-0-N  Note - 1.6KVA XFMR  (30) IEC Terminal Blocks,1492-JG4,6,10?  (200) I/O Wiring to terminal blocks within a PLC, SLC or ControlLogix unit (per wire)  (200) Finger-Safe High Density Terminal Blocks,1492-H1,2,4,5,6,7?  (2) Receptacle, Duplex, GFI, 120V, 15A maximum, mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12 , power source not included  (4) Panduit Wiring Duct and Covers (White, 6 ft length) (Width, Height determined by adding PCB# Note)  (2) 8 CURRENT ANALOG OUTPUTS,1769-OF8C  (2) 120/240V AC OUTPUT MODULE,1769-OA16  (1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</p>

# Rockwell Automation

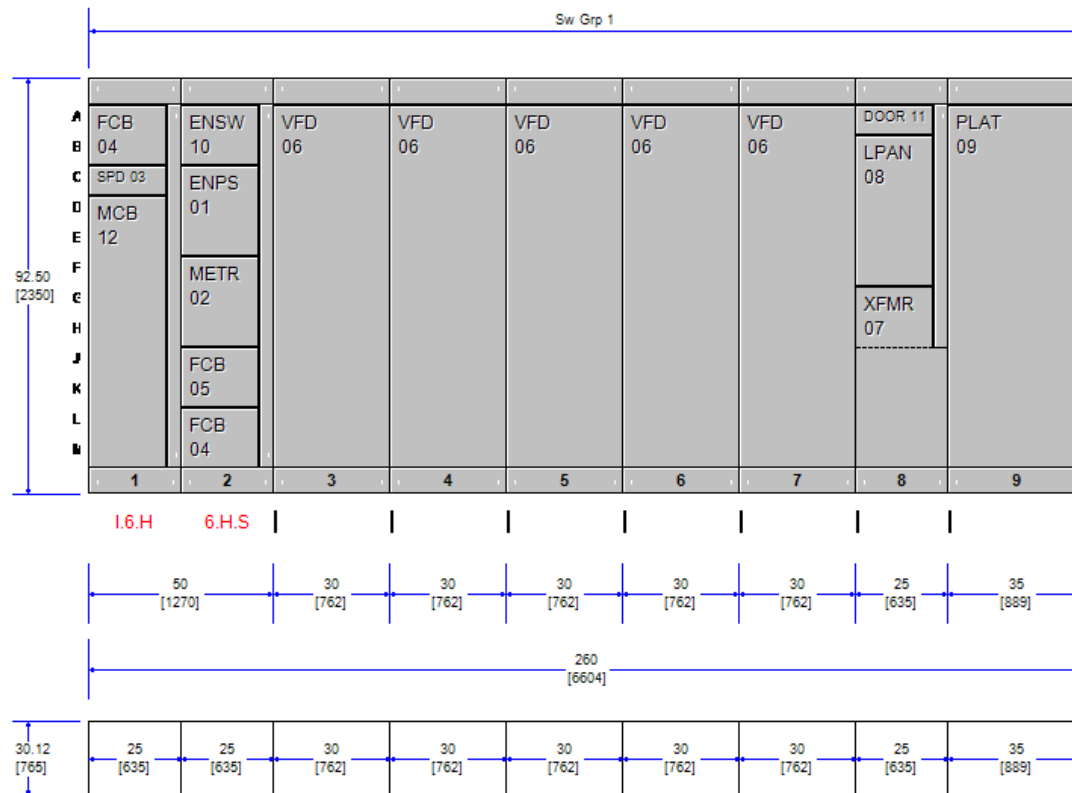
## Centerline 2100 Motor Control Center

### Front Elevation

Project Name: CWD - Conejo Wells  
 Project Item: MCC-2 - N3R  
 Project ID #: 5271772/4

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:02

Rockwell Automation/Allen-Bradley  
 PowerControl Builder Lineup



NOTE: Dimensions are subject to change after design review.

ENCLOSURE: NEMA Type 3R (Outdoor Non-Walk-In: the external width of each NEMA Type 3R cabinet is 5" wider and 10" deeper than its internal section)

Estimated Heat Loss: 13583 watts

BTU/hr Required: 46348

Air Conditioning Tons: 3.88

Estimated Weight: 6750 lb (3062 kg)

Heat loss values are for estimating purposes only.

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Nameplate Report

Project Name: CWD - Conejo Wells  
Project Item: MCC-2 - N3R  
Project ID #: 5271772/4

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:02

**Master Nameplate Type** - No Master Nameplate Supplied

**Unit Nameplate Type** - Acrylic - Black letters on white (3 lines)  
(Maximum characters per line is 17 / 15 / 17)

**IP Address** - IP Address Not Included on Nameplate

#### Section 1

Location: 01A FCB Left Space Factor: 1 Wiring Diagram Number: 10006415294
SPARE

Location: 01C SPD Space Factor: 0.5 Wiring Diagram Number: 10006415263
SPD

Location: 01A FCB Right Space Factor: 1 Wiring Diagram Number: 10006415294
SPARE

Location: 01D MCB Space Factor: 4.5 Wiring Diagram Number: N/A

#### Section 2

Location: 02A ENSW Space Factor: 1 Wiring Diagram Number: 10006415251
ETHERNET SWITCH

Location: 02C ENPS Space Factor: 1.5 Wiring Diagram Number: 10006415245
ETHERNET
POWER SUPPLY

<b>Location: 02F METR</b> <b>Space Factor: 1.5</b> <b>Wiring Diagram Number: 10006415275</b>
POWER
METER

<b>Location: 02L FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02J FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

<b>Location: 02L FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02J FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

### **Section 3**

<b>Location: 03A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
WELL NO. 4

### **Section 4**

<b>Location: 04A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
2A-BSTR-PMP

### **Section 5**

<b>Location: 05A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
2B-BSTR-PMP

#### **Section 6**

<b>Location: 06A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
40-PMP-01

#### **Section 7**

<b>Location: 07A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
40-PMP-02

#### **Section 8**

<b>Location: 08A DOOR</b> <b>Space Factor: 0.5</b> <b>Wiring Diagram Number: 10002277146</b>

<b>Location: 08G XFMR</b> <b>Space Factor: 3</b> <b>Wiring Diagram Number: 10006415299</b>
TX-LP2

<b>Location: 08B LPAN</b> <b>Space Factor: 2.5</b> <b>Wiring Diagram Number: 10005989973</b>
LP2

**Section 9**

Location: 09A PLAT Space Factor: 6 Wiring Diagram Number: 10006415257



## Unit Details - CWD - Conejo Wells

**Master Nameplate Type:** No Master Nameplate

**Unit Nameplate Type:** Acrylic - Black letters on white (3 lines)

Location	Type	HP	KW	Rating	Nameplate L1	Nameplate L2	Nameplate L3	Nameplate L4	Switch Location	IP/Subnet Address	Dual IP Address	Switch Port	Dual Switch Port
1A	FCB	0	0	100	SPARE								
1C	SPD	0	0	0	SPD								
1D	MCB	0	0	1200									
2C	ENPS	0	0	30	ETHERNET	POWER SUPPLY							
2F	METR	0	0	0	POWER	METER			02A-R	192.168.1.1	192.168.1.2	01	02
2J	FCB	0	0	40	SPARE								
2L	FCB	0	0	100	SPARE								
3A	VFD	125	0	250.0	WELL NO. 4				02A-R	192.168.1.4 255.255.255.0		03	
4A	VFD	125	0	250.0	BOOSTER PUMP	2A-BSTR-PMP			02A-R	192.168.1.5 255.255.255.0		04	
5A	VFD	125	0	250.0	BOOSTER PUMP	2B-BSTR-PMP			02A-R	192.168.1.6 255.255.255.0		05	
6A	VFD	125	0	250.0	BOOSTER PUMP	40-PMP-01			02A-R	192.168.1.7 255.255.255.0		06	
7A	VFD	125	0	250.0	BOOSTER PUMP	40-PMP-02			02A-R	192.168.1.8 255.255.255.0		07	
8A	DOOR	0	0	0									
8B	LPAN	0	0	0	LP2								
8G	XFMR	0	0	70	TX-LP2								
9A	PLAT	0	0	20									
2A	ENSW	0	0	0	ETHERNET SWITCH				2A-R	192.168.1.3 255.255.255.0			

### Ethernet Switch Port Capacity

Uplink	Switch group	Section	Consumed Switch Ports		Available Switch Ports
1	1	1	0	7	9
		2	2		
		3	1		
		4	1		
		5	1		
		6	1		
		7	1		
		8	0		
		9	0		

# Rockwell Automation

## Centerline 2100 Motor Control Center

### MCC Details

Project Name: CWD - Conejo Wells  
Project Item: MCC-3 - N3R  
Project ID #: 5271772/5

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

The details of the proposed motor control center are as follows:

Category	Description
Total Section(s)	9
Total Shipping Block(s)	8
Section Depth	Front Mounted, 20" Deep
Section Height	90" High
Enclosure	3R - Outdoor Non-Walk-In
Designed For Use With	Power System Type: Wye, 3-phase, 4-wire with solidly grounded neutral
MCC Connection Type	Main Circuit Breaker
Incoming Cable Entry	Bottom, Section 1
Main Bus Rating	1200A
Main Bus Material	Copper / Tin Plated
Main Bus Bracing	65kA (rms symmetrical)
Horizontal Neutral Bus Rating	Half of Main Bus Rating
Horizontal Neutral Bus Location	Below Main Bus
Horizontal Neutral Bus Supplied	In Section(s): 1, 2
Horizontal Ground Bus	1/4" X 1", Bottom, Unplated Copper
Vertical Ground Bus	Unit Load Copper and Plug-in Copper
Stab Opening Protection	Automatic Shutters
Master Nameplate	No

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Basic Structure Information

Project Name: CWD - Conejo Wells  
Project Item: MCC-3 - N3R  
Project ID #: 5271772/5

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

### Motor Control Center Details

This MCC(s) was developed using an available fault current of 50,001 to 65,000 A.  
MCC configuration & pricing subject to change, if actual Available Fault Current differs.

### Motor Control Center Details

**Power System Type:** Wye, 3-phase, 4-wire with solidly grounded neutral  
**Voltage:** 480 Volts / 60 Hertz  
**Available Fault Current:** 50,001 to 65,000 A  
**Unit Nameplate Type:** Acrylic - Black letters on white  
**Wiring Type:** B-T Control and Power Terminal Blocks  
**Wiring Diagram Location:** Central location  
**Class II Diagram:** TBD  
**Class II Wire Count:** 1  
**Class II Wire Through:** Top Wireway  
**Arc Resistant MCC:** No  
**IntelliCENTER Network:** Ethernet  
**IMC Device Firmware:** Upgraded to latest available version (saves up to 1 hour of customer configuration time per section)

### Incoming Line Details

**MCC Connection Type:** Main Circuit Breaker  
**Incoming Line Cable Entry:** Bottom Mounted

### Bus Details

**Main Bus Rating:** 1200A  
**Main Bus Material:** Copper / Tin Plated  
**Main Bus Bracing:** 65kA (rms symmetrical)  
**Insulated Bus:** None Selected

**Horizontal Ground Bus Size:** 1/4" X 1"  
**Horizontal Ground Bus Plating:** Unplated Copper  
**Horizontal Ground Bus Location:** Bottom  
**Vertical Ground Bus Type:** Unit Load Copper and Plug-in Copper  
**Incoming Ground Lug Size:** #6 AWG - 250 kcmil (2 Supplied as Standard)  
**Incoming Ground Cable Size:** None Selected

**Horizontal Neutral Bus Rating:** Half of Main Bus Rating  
**Horizontal Neutral Bus Location:** Below Main Bus

### Enclosure Details

**Enclosure Type:** 3R - Outdoor Non-Walk-In  
**NEMA 3R/4 Lifting Angle:** No  
**Section Depth:** Front Mounted, 20" Deep  
**Enclosure Depth:** Front Mounted, 30.12" Deep  
**Section Height:** 90" High  
**Stab Opening Protection:** Automatic Shutters  
**Wireway Tie Bar:** Yes  
**Space Heater Voltage:** 120V  
**Space Heater Thermostat:** 1 Per Section

**Total Shipping Block(s):** 8  
**Total Section(s):** 9  
**Total Unit(s):** 17

### Ethernet Network Information

Full Ethernet Network Information can be found on the One Line Diagram associated with this project item. This drawing can be obtained by requesting Pre-order drawings through PowerControl Builder.

### Section Modifications (Qty/Mods)

#### **MCC Level Mods:**

Class II interwiring or Limited Class II between units in MCC (30 wires max; a 15% adder is applied if more than 30 wires) (List price is per wire 30 and under).

#### **Section 1 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 2 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 3 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 4 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 5 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

## **Section 6 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 7 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 8 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

#### **Section 9 Modifications (Quantity/Mods)**

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

Section Number	Section Width (inches)	Options/Modifications
1	20"	600A Vertical Bus Horizontal Neutral Bus

2	20"	600A Vertical Bus Horizontal Neutral Bus
3	25"	N/A
4	25"	N/A
5	25"	N/A
6	25"	N/A
7	25"	N/A
8	20"	N/A
9	30"	N/A

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit List

Project Name: CWD - Conejo Wells  
 Project Item: MCC-3 - N3R  
 Project ID #: 5271772/5

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:03

ID	QTY	Catalog Number / Unit Description
1	1	2100-EPS8KB-30TGM-79U-751M-751S-768C / Ethernet Power Supply Unit with Circuit Breaker Thermal Magnetic (15A Trip)
2	1	2190-CKB-56M-79U-86W54CXB-751M-751S / Metering Unit - Bul 1426-M5 PM 5000 w/Ethernet
3	1	2100-SPKB-3-751M-751S / Surge Protective Device Unit - Wye w/solidly grd neut, 4-wire
4	2	2193F-AKB-79L-79U-751M-4031TGM / Feeder Circuit Breaker - 125A Frame Rating with 100A/20A Trip
5	1	2193F-AKB-79L-79U-751M-3434TGM / Feeder Circuit Breaker - 125A Frame Rating with 40A/40A Trip
6	5	2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A / PowerFlex 755 AC Drive w/CB - 125 HP with Circuit Breaker Thermal Magnetic (250A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
7	1	2197-WKBH-37TGM-79L-79U-751M-790A / Control & Lighting Transformer w/CB - 45.0 kVA with Circuit Breaker Thermal Magnetic (70A Trip)
8	1	2193LE-AKB327-40WT-31A27-111-751M / Lighting Panel Unit with Main Circuit Breaker - 100A - 27 Total Circuits
9	1	2100-GKC2X3B-31TGM-120-751M / Full Sect Blank Mtg Plate w/ or w/o Disc with Circuit Breaker Thermal Magnetic (20A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
10	1	2100-ESW20K-T10FDP-114-751M-751S / Stratix 5700 20-Port
11	1	2100-BK05 / Blank Unit Door - 0.5 Space Factor
12	1	2193MB-GKC-56TNMG-88HN-751M / Main Circuit Breaker - 1200A Frame Rating - Bottom Mounted with 1200A Trip w/ Maintenance Mode



# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Description

Project Name: CWD - Conejo Wells  
Project Item: MCC-3 - N3R  
Project ID #: 5271772/5

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

### General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz  
Power System Configuration: Wye, 3-phase, 4-wire with solidly grounded neutral  
Class I Wiring Type: B-T Control and Power Terminal Blocks  
NEMA Enclosure Type: 3R - Outdoor Non-Walk-In  
Available Fault Current: 50,001 to 65,000 A  
Unit Nameplate Type: Acrylic - Black letters on white  
Delivery Program: ENG

### Unit Information

Description	Unit Features
<p><b>Unit Loc: 01A</b>      <b>Del Prog: SCII</b> <b>Unit ID: 4</b> FCB - Feeder Circuit Breaker</p> <p><u><b>Rating</b></u> Dual 100A/20A</p> <p><u><b>Wiring Diagram</b></u> 10006415294</p> <p><u><b>Name Plate Information</b></u> PANEL CHEM FEED BUILDING</p> <p><u><b>Dual Unit</b></u> SPARE</p> <p><u><b>Overload Relay(s)</b></u> Motor Full Load Current (FLC) = Not Available</p>	<p><b>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</b> Total Space Factor = 1 Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</p> <p><u><b>Features Included</b></u> Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U) Mylar Device Markers (-751M)</p>
<p><b>Unit Loc: 01C</b>      <b>Del Prog: PEII</b> <b>Unit ID: 3</b> SPD - Surge Protective Device Unit</p> <p><u><b>Wiring Diagram</b></u> 10006415263</p> <p><u><b>Name Plate Information</b></u> SPD</p>	<p><b>Catalog Number: 2100-SPKB-3-751M-751S</b> Total Space Factor = 0.5 Surge Protector Type: Wye w/solidly grd neut, 4-wire</p> <p><u><b>Features Included</b></u> Mylar Device Markers (-751M) Sleeve Type Markers (-751S)</p>

<div>Unit Loc: 01D      Del Prog: FT1</div> <div>Unit ID: 12</div> <div>MCB - Main Circuit Breaker</div> <div><div>Rating</div><div>1200A</div></div>	<div>Catalog Number: 2193MB-GKC-56TNMG-88HN-751M</div> <div>Total Space Factor = 4.5</div> <div>Circuit Breaker: Electronic (LSIG) - Maint. Mode, 65kA at 480V (1200) with Frame Rating of 1200A (N6I Frame) w/ Maintenance Mode, Bottom Mounted, 1200A Trip, with Internal Ground Fault Protection</div> <div>Lugs Supplied: Std Mech/Lug Pads, 500 kcmil Size Wire, 4 Cables per Phase</div> <div><div>Features Included</div><div>INC_NEUT_BUS Half-rated (-88HN)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) 140G Maintenance Mode - Switch Mode Selector Switch, Blue Indicator Light, &amp; Control components for K,M,N &amp; R Frame.</div><div>(1) Engineered Modification and/or Custom Diagram</div></div>						
<div>Unit Loc: 02A      Del Prog: PEII</div> <div>Unit ID: 10</div> <div>ENSW - Stratix 5700 20-Port</div> <div><div>Wiring Diagram</div><div>10006415251</div></div> <div><div>Name Plate Information</div><div>ETHERNET SWITCH</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2100-ESW</td><td>192.168.1.3</td><td>255.255.255.0</td></tr></table><div>No Cable Length</div><div>Ethernet Switch Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2100-ESW	192.168.1.3	255.255.255.0	<div>Catalog Number: 2100-ESW20K-T10FDP-114-751M-751S</div> <div>Total Space Factor = 1</div> <div>Full Stratix 5700 Firmware</div> <div>NAT (CIP Sync &amp; Gigabit Ports)</div> <div>Power Adapters (w/Unit Mtg)</div> <div><div>Features Included</div><div>Locking Latch Provision (-114)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div></div>
Device Type	IP Address	Subnet Mask					
2100-ESW	192.168.1.3	255.255.255.0					
<div>Unit Loc: 02C      Del Prog: SCII</div> <div>Unit ID: 1</div> <div>ENPS - Ethernet Power Supply Unit</div> <div><div>Rating</div><div>125A</div></div> <div><div>Wiring Diagram</div><div>10006415245</div></div> <div><div>Name Plate Information</div><div>ETHERNET POWER SUPPLY</div></div>	<div>Catalog Number: 2100-EPS8KB-30TGM-79U-751M-751S-768C</div> <div>Total Space Factor = 1.5</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (15A Trip)</div> <div>Disconnect Type = Circuit Breaker</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>Redundant ENet Power Supply (-768C)</div></div>						

<div>Unit Loc: 02F      Del Prog: ENG</div> <div>Unit ID: 2</div> <div>METR - Metering Unit</div> <div><div>Wiring Diagram</div><div>10006415275</div></div> <div><div>Name Plate Information</div><div>POWER</div><div>METER</div></div> <div><div>Ethernet Information</div><div><div>Device Type</div><div>IP Address</div><div>Subnet Mask</div><div>2190</div><div>192.168.1.1</div><div>255.255.255.0</div><div>2190</div><div>192.168.1.2</div><div>255.255.255.0</div></div><div>Cable Length : 2.49 m</div><div>Power Monitor Firmware Version : LATEST</div></div>	<div>Catalog Number: 2190-CKB-56M-79U-86W54CXB-751M-751S</div> <div>Total Space Factor = 1.5</div> <div>Metering Type: Bul 1426-M5 PM 5000 w/Ethernet</div> <div>Ammeter Scale 1200</div> <div><div>Features Included</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Upgrade PM 5000 from M5 to M6,1426-M6E</div><div>(1) Engineered Modification and/or Custom Diagram</div></div>
<div>Unit Loc: 02J      Del Prog: SCII</div> <div>Unit ID: 5</div> <div>FCB - Feeder Circuit Breaker</div> <div><div>Rating</div><div>Dual 40A/40A</div></div> <div><div>Wiring Diagram</div><div>10006415287</div></div> <div><div>Name Plate Information</div><div>SPARE</div></div> <div><div>Dual Unit</div><div>SPARE</div></div> <div><div>Overload Relay(s)</div><div>Motor Full Load Current (FLC) = Not Available</div></div>	<div>Catalog Number: 2193F-AKB-79L-79U-751M-3434TGM</div> <div>Total Space Factor = 1</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (40) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 40A/40A Trip</div> <div>Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</div> <div><div>Features Included</div><div>Unit Ground Load Connector Unplated Cu (-79L)</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div></div>
<div>Unit Loc: 02L      Del Prog: SCII</div> <div>Unit ID: 4</div> <div>FCB - Feeder Circuit Breaker</div> <div><div>Rating</div><div>Dual 100A/20A</div></div> <div><div>Wiring Diagram</div><div>10006415294</div></div> <div><div>Name Plate Information</div><div>SPARE</div></div> <div><div>Dual Unit</div><div>SPARE</div></div> <div><div>Overload Relay(s)</div><div>Motor Full Load Current (FLC) = Not Available</div></div>	<div>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</div> <div>Total Space Factor = 1</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip</div> <div>Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</div> <div><div>Features Included</div><div>Unit Ground Load Connector Unplated Cu (-79L)</div><div>Unit Grd Stab Unplated Cu (-79U)</div><div>Mylar Device Markers (-751M)</div></div>

<div>Unit Loc: 03A      Del Prog: ENG</div> <div>Unit ID: 6</div> <div>VFD - PowerFlex 755 AC Drive w/CB</div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>WELL NO. 2</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.4</td><td>255.255.255.0</td></tr></table><div>Cable Length : 2.9 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.4	255.255.255.0	<div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div> <div>Total Space Factor = 6</div> <div>Wiring: NEMA Type B wiring</div> <div>Output Current Rating: 156A</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div> <div>Human Interface Module: LCD full numeric keypad - Door Mounted</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.4	255.255.255.0					

<div><div>Unit Loc: 04A</div><div>Del Prog: ENG</div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>P4-BSTR-PMP</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.5</td><td>255.255.255.0</td></tr></table><div>Cable Length : 3.66 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.5	255.255.255.0	<div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div></div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.5	255.255.255.0					

<div><div>Unit Loc: 05A</div><div>Del Prog: ENG</div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>P5-BSTR-PMP</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.6</td><td>255.255.255.0</td></tr></table><div>Cable Length : 4.42 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.6	255.255.255.0	<div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div></div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.6	255.255.255.0					

<div><div><div>Unit Loc: 06A</div><div>Del Prog: ENG</div></div><div><div>Unit ID: 6</div><div>VFD - PowerFlex 755 AC Drive w/CB</div></div><div><div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div><div><div>Wiring Diagram</div><div>10006435909</div></div><div><div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>P6-BSTR-PMP</div></div><div><div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.7</td><td>255.255.255.0</td></tr></table></div><div><div>Cable Length : 5.18 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div></div></div></div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.7	255.255.255.0	<div><div><div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div><div>Total Space Factor = 6</div><div>Wiring: NEMA Type B wiring</div><div>Output Current Rating: 156A</div><div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div><div>Human Interface Module: LCD full numeric keypad - Door Mounted</div><div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div><div>Control Wiring: #16 AWG MTW(TEW) Cu</div></div><div><div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div><div><div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div></div></div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.7	255.255.255.0					

<div>Unit Loc: 07A      Del Prog: ENG</div> <div>Unit ID: 6</div> <div>VFD - PowerFlex 755 AC Drive w/CB</div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>BOOSTER PUMP</div><div>P7-BSTR-PMP</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.8</td><td>255.255.255.0</td></tr></table><div>Cable Length : 5.95 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.8	255.255.255.0	<div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div> <div>Total Space Factor = 6</div> <div>Wiring: NEMA Type B wiring</div> <div>Output Current Rating: 156A</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div> <div>Human Interface Module: LCD full numeric keypad - Door Mounted</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.8	255.255.255.0					
<div>Unit Loc: 08A      Del Prog: SCII</div> <div>Unit ID: 11</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK05</div> <div>Total Space Factor = 0.5</div>						
<div>Unit Loc: 08B      Del Prog: ENG</div> <div>Unit ID: 8</div> <div>LPAN - Lighting Panel Unit</div> <div><div>Wiring Diagram</div><div>10005989973</div></div> <div><div>Name Plate Information</div><div>LP3</div></div>	<div>Catalog Number: 2193LE-AKB327-40WT-31A27-111-751M</div> <div>Total Space Factor = 2.5</div> <div>Panel Type &amp; Rating: Three Phase, 4-Wire, 120/208V, 100A, 27 total circuits</div> <div>Bolt-On Branch Breakers: None</div> <div><div>Features Included</div><div>(27) 20A 1-P CB (-31A27)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) 2193LE, Lighting Panel - Copper bus, unplated (Aluminum is standard), 100A (30 circuit maximum, 1or 3 phase)</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 2193LE, Lighting Panel - Wire panel to transformer, 100A</div></div>						



<p><b>Unit Loc: 08G</b>      <b>Del Prog: SCII</b>  <b>Unit ID: 7</b>  XFMR - Control &amp; Lighting Transformer w/CB</p> <p><u><b>Wiring Diagram</b></u>  10006415299</p> <p><u><b>Name Plate Information</b></u>  TX-LP3</p>	<p><b>Catalog Number: 2197-WKBH-37TGM-79L-79U-751M-790A</b>  Total Space Factor = 3  Secondary Wiring Fusing &amp; Rating: 3-Phase, 120/208V, 3 Fuse, 45.0 kVA  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (70A Trip)</p> <p><u><b>Features Included</b></u>  Unit Ground Load Connector Unplated Cu (-79L)  Unit Grd Stab Unplated Cu (-79U)  1 Aux and 1 Alarm-Internal-CB (-790A)</p>
<p><b>Unit Loc: 09A</b>      <b>Del Prog: ENG</b>  <b>Unit ID: 9</b>  PLAT - Full Sect Blank Mtg Plate w/ or w/o Disc</p> <p><u><b>Rating</b></u>  20A</p> <p><u><b>Wiring Diagram</b></u>  10006415257</p>	<p><b>Catalog Number: 2100-GKC2X3B-31TGM-120-751M</b>  Total Space Factor = 6</p> <p>Rating: 20A  Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (20A Trip)  Disconnect Type = Circuit Breaker  Required Section Width 30" Wide  Working Depth 14" Deep</p> <p><u><b>Features Included</b></u>  Omit horizontal power bus (-120)</p> <p><u><b>Engineered Spec(s)/Modification(s)</b></u>  (1) Customer Load Cables Exit(Bottom)  (1) Compact Logix 2MB Motion Controller,1769-L33ERM  (1) Engineered Modification and/or Custom Diagram  (4) 120V AC INPUT MODULE,1769-IA16  (2) 8 ANALOG INPUTS,1769-IF8  (1) POWER SUPPLY,1769-PA4  (2) Power Supply, 120W, 24VDC, 5A output, 120-240VAC input,1606-XLS120E  Note - 1606-XLE240E  (1) END CAP RIGHT,1769-ECR  (2) 1000VA Control Transformer-Fusing/Fuse Block Included ,1497-K-BASX-0-N  Note - 1.6KVA XFMR  (30) IEC Terminal Blocks,1492-JG4,6,10?  (200) I/O Wiring to terminal blocks within a PLC, SLC or ControlLogix unit (per wire)  (200) Finger-Safe High Density Terminal Blocks,1492-H1,2,4,5,6,7?  (2) Receptacle, Duplex, GFI, 120V, 15A maximum, mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12 , power source not included  (4) Panduit Wiring Duct and Covers (White, 6 ft length) (Width, Height determined by adding PCB# Note)  (2) 8 CURRENT ANALOG OUTPUTS,1769-OF8C  (2) 120/240V AC OUTPUT MODULE,1769-OA16  (1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</p>

# Rockwell Automation

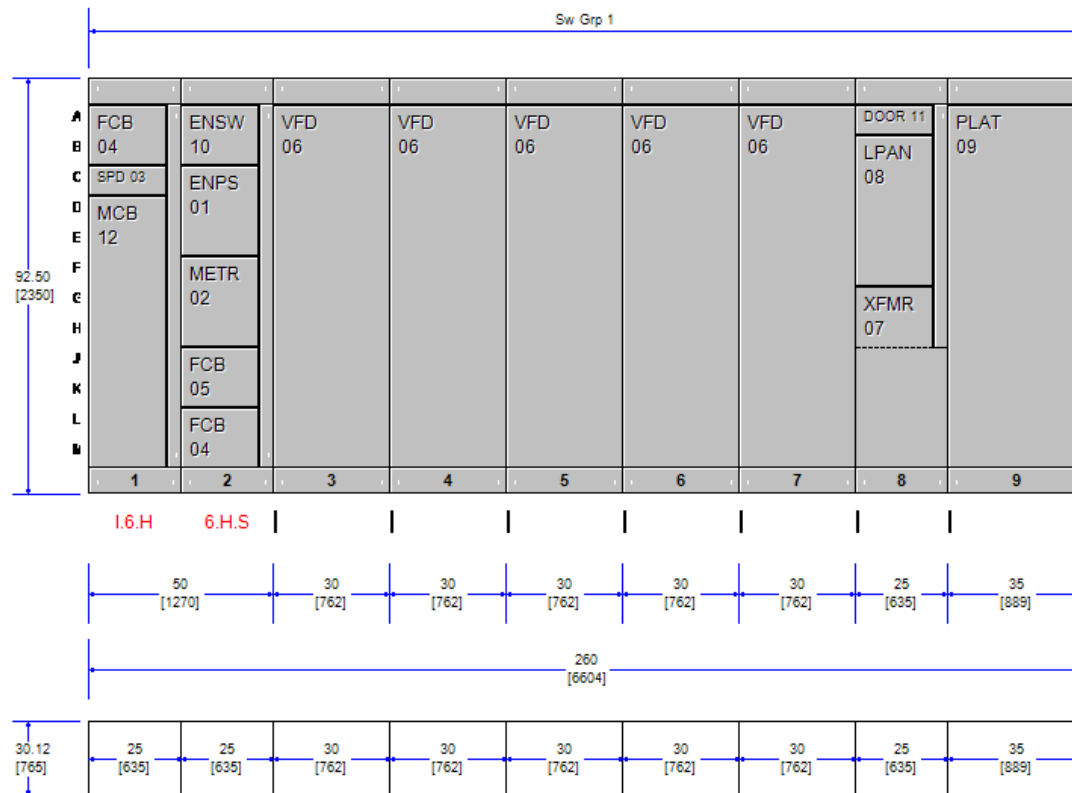
## Centerline 2100 Motor Control Center

### Front Elevation

Project Name: CWD - Conejo Wells  
 Project Item: MCC-3 - N3R  
 Project ID #: 5271772/5

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:03

Rockwell Automation/Allen-Bradley  
 PowerControl Builder Lineup



NOTE: Dimensions are subject to change after design review.

ENCLOSURE: NEMA Type 3R (Outdoor Non-Walk-In: the external width of each NEMA Type 3R cabinet is 5" wider and 10" deeper than its internal section)

Estimated Heat Loss: 13583 watts

BTU/hr Required: 46348

Air Conditioning Tons: 3.88

Estimated Weight: 6750 lb (3062 kg)

Heat loss values are for estimating purposes only.

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Nameplate Report

Project Name: CWD - Conejo Wells  
Project Item: MCC-3 - N3R  
Project ID #: 5271772/5

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

**Master Nameplate Type** - No Master Nameplate Supplied

**Unit Nameplate Type** - Acrylic - Black letters on white (3 lines)  
(Maximum characters per line is 17 / 15 / 17)

**IP Address** - IP Address Not Included on Nameplate

#### Section 1

Location: 01A FCB Left Space Factor: 1 Wiring Diagram Number: 10006415294
PANEL CHEM
FEED BUILDING

Location: 01C SPD Space Factor: 0.5 Wiring Diagram Number: 10006415263
SPD

Location: 01A FCB Right Space Factor: 1 Wiring Diagram Number: 10006415294
SPARE

Location: 01D MCB Space Factor: 4.5 Wiring Diagram Number: N/A

#### Section 2

Location: 02A ENSW Space Factor: 1 Wiring Diagram Number: 10006415251
ETHERNET SWITCH

Location: 02C ENPS Space Factor: 1.5 Wiring Diagram Number: 10006415245
ETHERNET
POWER SUPPLY

<b>Location: 02F METR</b> <b>Space Factor: 1.5</b> <b>Wiring Diagram Number: 10006415275</b>
POWER
METER

<b>Location: 02L FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02J FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

<b>Location: 02L FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02J FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

### **Section 3**

<b>Location: 03A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
WELL NO. 2

### **Section 4**

<b>Location: 04A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
P4-BSTR-PMP

### **Section 5**

<b>Location: 05A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
P5-BSTR-PMP

#### **Section 6**

<b>Location: 06A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
P6-BSTR-PMP

#### **Section 7**

<b>Location: 07A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
BOOSTER PUMP
P7-BSTR-PMP

#### **Section 8**

<b>Location: 08A DOOR</b> <b>Space Factor: 0.5</b> <b>Wiring Diagram Number: 10002277146</b>

<b>Location: 08G XFMR</b> <b>Space Factor: 3</b> <b>Wiring Diagram Number: 10006415299</b>
TX-LP3

<b>Location: 08B LPAN</b> <b>Space Factor: 2.5</b> <b>Wiring Diagram Number: 10005989973</b>
LP3

**Section 9**

Location: 09A PLAT Space Factor: 6 Wiring Diagram Number: 10006415257

## Unit Details - CWD - Conejo Wells

**Master Nameplate Type:** No Master Nameplate

**Unit Nameplate Type:** Acrylic - Black letters on white (3 lines)

Location	Type	HP	KW	Rating	Nameplate L1	Nameplate L2	Nameplate L3	Nameplate L4	Switch Location	IP/Subnet Address	Dual IP Address	Switch Port	Dual Switch Port
1A	FCB	0	0	100	PANEL CHEM	FEED BUILDING							
1C	SPD	0	0	0	SPD								
1D	MCB	0	0	1200									
2C	ENPS	0	0	30	ETHERNET	POWER SUPPLY							
2F	METR	0	0	0	POWER	METER			02A-R	192.168.1.1	192.168.1.2	01	02
2J	FCB	0	0	40	SPARE								
2L	FCB	0	0	100	SPARE								
3A	VFD	125	0	250.0	WELL NO. 2				02A-R	192.168.1.4 255.255.255.0		03	
4A	VFD	125	0	250.0	BOOSTER PUMP	P4-BSTR-PMP			02A-R	192.168.1.5 255.255.255.0		04	
5A	VFD	125	0	250.0	BOOSTER PUMP	P5-BSTR-PMP			02A-R	192.168.1.6 255.255.255.0		05	
6A	VFD	125	0	250.0	BOOSTER PUMP	P6-BSTR-PMP			02A-R	192.168.1.7 255.255.255.0		06	
7A	VFD	125	0	250.0	BOOSTER PUMP	P7-BSTR-PMP			02A-R	192.168.1.8 255.255.255.0		07	
8A	DOOR	0	0	0									
8B	LPAN	0	0	0	LP3								
8G	XFMR	0	0	70	TX-LP3								
9A	PLAT	0	0	20									
2A	ENSW	0	0	0	ETHERNET SWITCH				2A-R	192.168.1.3 255.255.255.0			

**Ethernet Switch Port Capacity**

Uplink	Switch group	Section	Consumed Switch Ports		Available Switch Ports
1	1	1	0	7	9
		2	2		
		3	1		
		4	1		
		5	1		
		6	1		
		7	1		
		8	0		
		9	0		



# Rockwell Automation

## Centerline 2100 Motor Control Center

### MCC Details

Project Name: CWD - Conejo Wells  
Project Item: MCC-4 - N3R  
Project ID #: 5271772/6

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

The details of the proposed motor control center are as follows:

Category	Description
Total Section(s)	7
Total Shipping Block(s)	6
Section Depth	Front Mounted, 20" Deep
Section Height	90" High
Enclosure	3R - Outdoor Non-Walk-In
Designed For Use With	Power System Type: Wye, 3-phase, 4-wire with solidly grounded neutral
MCC Connection Type	Main Circuit Breaker
Incoming Cable Entry	Bottom, Section 1
Main Bus Rating	600A
Main Bus Material	Copper / Tin Plated
Main Bus Bracing	65kA (rms symmetrical)
Horizontal Neutral Bus Rating	Half of Main Bus Rating
Horizontal Neutral Bus Location	Below Main Bus
Horizontal Neutral Bus Supplied	In Section(s): 1, 2
Horizontal Ground Bus	1/4" X 1", Bottom, Unplated Copper
Vertical Ground Bus	Unit Load Copper and Plug-in Copper
Stab Opening Protection	Automatic Shutters
Master Nameplate	No

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Basic Structure Information

Project Name: CWD - Conejo Wells  
Project Item: MCC-4 - N3R  
Project ID #: 5271772/6

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:03

### Motor Control Center Details

This MCC(s) was developed using an available fault current of 50,001 to 65,000 A.  
MCC configuration & pricing subject to change, if actual Available Fault Current differs.

### Motor Control Center Details

**Power System Type:** Wye, 3-phase, 4-wire with solidly grounded neutral  
**Voltage:** 480 Volts / 60 Hertz  
**Available Fault Current:** 50,001 to 65,000 A  
**Unit Nameplate Type:** Acrylic - Black letters on white  
**Wiring Type:** B-T Control and Power Terminal Blocks  
**Wiring Diagram Location:** Central location  
**Class II Diagram:** TBD  
**Class II Wire Count:** 1  
**Class II Wire Through:** Top Wireway  
**Arc Resistant MCC:** No  
**IntelliCENTER Network:** Ethernet  
**IMC Device Firmware:** Upgraded to latest available version (saves up to 1 hour of customer configuration time per section)

### Incoming Line Details

**MCC Connection Type:** Main Circuit Breaker  
**Incoming Line Cable Entry:** Bottom Mounted

### Bus Details

**Main Bus Rating:** 600A  
**Main Bus Material:** Copper / Tin Plated  
**Main Bus Bracing:** 65kA (rms symmetrical)  
**Insulated Bus:** None Selected

**Horizontal Ground Bus Size:** 1/4" X 1"  
**Horizontal Ground Bus Plating:** Unplated Copper  
**Horizontal Ground Bus Location:** Bottom  
**Vertical Ground Bus Type:** Unit Load Copper and Plug-in Copper  
**Incoming Ground Lug Size:** #6 AWG - 250 kcmil (2 Supplied as Standard)  
**Incoming Ground Cable Size:** None Selected

**Horizontal Neutral Bus Rating:** Half of Main Bus Rating  
**Horizontal Neutral Bus Location:** Below Main Bus

### Enclosure Details

**Enclosure Type:** 3R - Outdoor Non-Walk-In  
**NEMA 3R/4 Lifting Angle:** No  
**Section Depth:** Front Mounted, 20" Deep  
**Enclosure Depth:** Front Mounted, 30.12" Deep  
**Section Height:** 90" High  
**Stab Opening Protection:** Automatic Shutters  
**Wireway Tie Bar:** Yes  
**Space Heater Voltage:** 120V  
**Space Heater Thermostat:** 1 Per Section

**Total Shipping Block(s):** 6  
**Total Section(s):** 7  
**Total Unit(s):** 20

### Ethernet Network Information

Full Ethernet Network Information can be found on the One Line Diagram associated with this project item. This drawing can be obtained by requesting Pre-order drawings through PowerControl Builder.

### Section Modifications (Qty/Mods)

#### **MCC Level Mods:**

Class II interwiring or Limited Class II between units in MCC (30 wires max; a 15% adder is applied if more than 30 wires) (List price is per wire 30 and under).

Custom Shipping Block (Per Block)

**Note - SECTIONS 4 & 5.**

**Section 1 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

**Section 2 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

**Section 3 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

**Section 4 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

**Section 6 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

#### **Section 7 Modifications (Quantity/Mods)**

(1) NEMA 3R/4 fluorescent lighting fixture

(1) Light Switch, 120V, 15A maximum, Mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12, power source not included

(1) Door Switch, 120V, mounted on door flange, power source not included

(1) Vented 3R door with hood (Hurricane Vent) AND/OR filtered exhaust fan(s) as needed for SMC, VFD and lighting transformers wired to TB"S for customer use or internal power source.

Section Number	Section Width (inches)	Options/Modifications
1	20"	600A Vertical Bus Horizontal Neutral Bus
2	20"	600A Vertical Bus Horizontal Neutral Bus
3	25"	N/A
4	25"	N/A
5	20"	N/A
6	20"	N/A
7	30"	N/A

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit List

Project Name: CWD - Conejo Wells  
 Project Item: MCC-4 - N3R  
 Project ID #: 5271772/6

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:03

ID	QTY	Catalog Number / Unit Description
1	1	2100-EPS8KB-30TGM-79U-751M-751S-768C / Ethernet Power Supply Unit with Circuit Breaker Thermal Magnetic (15A Trip)
2	1	2190-CKB-56M-79U-86W54CXB-751M-751S / Metering Unit - Bul 1426-M5 PM 5000 w/Ethernet
3	1	2100-SPKB-3-751M-751S / Surge Protective Device Unit - Wye w/solidly grd neut, 4-wire
4	2	2193F-AKB-79L-79U-751M-4031TGM / Feeder Circuit Breaker - 125A Frame Rating with 100A/20A Trip
5	1	2193F-AKB-79L-79U-751M-3434TGM / Feeder Circuit Breaker - 125A Frame Rating with 40A/40A Trip
6	2	2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A / PowerFlex 755 AC Drive w/CB - 125 HP with Circuit Breaker Thermal Magnetic (250A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
7	1	2197-WKBH-37TGM-79L-79U-751M-790A / Control & Lighting Transformer w/CB - 45.0 kVA with Circuit Breaker Thermal Magnetic (70A Trip)
8	1	2193LE-AKB327-40WT-31A27-111-751M / Lighting Panel Unit with Main Circuit Breaker - 100A - 27 Total Circuits
9	1	2100-GKC2X3B-31TGM-120-751M / Full Sect Blank Mtg Plate w/ or w/o Disc with Circuit Breaker Thermal Magnetic (20A Trip)
-	1	<i>Customer Load Cables Exit(Bottom)</i>
10	1	2100-ESW10K-T10FDP-114-751M-751S / Stratix 5700 10-Port
11	4	2100-BK10 / Blank Unit Door - 1.0 Space Factor
12	2	2100-BK05 / Blank Unit Door - 0.5 Space Factor
13	1	2193MB-EKC-52TMM-88HN-751M / Main Circuit Breaker - 800A Frame Rating - Bottom Mounted with 600A Trip
14	1	2100-NK30-79L-79U / Empty Unit Insert - 3.0 Space Factor

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Description

Project Name: CWD - Conejo Wells  
 Project Item: MCC-4 - N3R  
 Project ID #: 5271772/6

Salesperson: Juan Campos  
 Created By: Juan Campos  
 Date/Time: 10/25/21 - 21:03

#### General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz  
 Power System Configuration: Wye, 3-phase, 4-wire with solidly grounded neutral  
 Class I Wiring Type: B-T Control and Power Terminal Blocks  
 NEMA Enclosure Type: 3R - Outdoor Non-Walk-In  
 Available Fault Current: 50,001 to 65,000 A  
 Unit Nameplate Type: Acrylic - Black letters on white  
 Delivery Program: ENG

#### Unit Information

Description	Unit Features									
<b>Unit Loc: 01A</b> <b>Del Prog: SCII</b> <b>Unit ID: 11</b> DOOR - Blank Unit Door	<b>Catalog Number: 2100-BK10</b> Total Space Factor = 1									
<b>Unit Loc: 01C</b> <b>Del Prog: ENG</b> <b>Unit ID: 2</b> METR - Metering Unit  <u><b>Wiring Diagram</b></u> 10006415275  <u><b>Name Plate Information</b></u> POWER METER  <u><b>Ethernet Information</b></u> <table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2190</td><td>192.168.1.1</td><td>255.255.255.0</td></tr><tr><td>2190</td><td>192.168.1.2</td><td>255.255.255.0</td></tr></table> Cable Length : 2.12 m  Power Monitor Firmware Version : LATEST	Device Type	IP Address	Subnet Mask	2190	192.168.1.1	255.255.255.0	2190	192.168.1.2	255.255.255.0	<b>Catalog Number: 2190-CKB-56M-79U-86W54CXB-751M-751S</b> Total Space Factor = 1.5 Metering Type: Bul 1426-M5 PM 5000 w/Ethernet Ammeter Scale 1200  <u><b>Features Included</b></u> Unit Grd Stab Unplated Cu (-79U) Mylar Device Markers (-751M) Sleeve Type Markers (-751S)  <u><b>Engineered Spec(s)/Modification(s)</b></u> (1) Upgrade PM 5000 from M5 to M6, 1426-M6E (1) Engineered Modification and/or Custom Diagram
Device Type	IP Address	Subnet Mask								
2190	192.168.1.1	255.255.255.0								
2190	192.168.1.2	255.255.255.0								
<b>Unit Loc: 01F</b> <b>Del Prog: PEII</b> <b>Unit ID: 3</b> SPD - Surge Protective Device Unit  <u><b>Wiring Diagram</b></u> 10006415263  <u><b>Name Plate Information</b></u> SPD	<b>Catalog Number: 2100-SPKB-3-751M-751S</b> Total Space Factor = 0.5 Surge Protector Type: Wye w/solidly grd neut, 4-wire  <u><b>Features Included</b></u> Mylar Device Markers (-751M) Sleeve Type Markers (-751S)									

<div>Unit Loc: 01GDel Prog: PEII</div> <div>Unit ID: 13</div> <div>MCB - Main Circuit Breaker</div> <div>Rating</div> <div>600A</div> <div>Wiring Diagram</div> <div>10006130039</div>	<div>Catalog Number: 2193MB-EKC-52TMM-88HN-751M</div> <div>Total Space Factor = 3</div> <div>Circuit Breaker: Electronic (LSI), 65kA at 480V (600) with Frame Rating of 800A (M6H Frame), Bottom Mounted, 600A Trip</div> <div>Lugs Supplied: Std Mech/Lug Pads, 350 kcmil Size Wire, 2 Cables per Phase</div> <div>Features Included</div> <div>INC_NEUT_BUS Half-rated (-88HN)</div>						
<div>Unit Loc: 02ADel Prog: PEII</div> <div>Unit ID: 10</div> <div>ENSW - Stratix 5700 10-Port</div> <div>Wiring Diagram</div> <div>10006415249</div> <div>Name Plate Information</div> <div>ETHERNET SWITCH</div> <div>Ethernet Information</div> <table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2100-ESW</td><td>192.168.1.3</td><td>255.255.255.0</td></tr></table> <div>No Cable Length</div> <div>Ethernet Switch Firmware Version : LATEST</div>	Device Type	IP Address	Subnet Mask	2100-ESW	192.168.1.3	255.255.255.0	<div>Catalog Number: 2100-ESW10K-T10FDP-114-751M-751S</div> <div>Total Space Factor = 1</div> <div>Full Stratix 5700 Firmware</div> <div>NAT (CIP Sync &amp; Gigabit Ports)</div> <div>Power Adapters (w/Unit Mtg)</div> <div>Features Included</div> <div>Locking Latch Provision (-114)</div> <div>Mylar Device Markers (-751M)</div> <div>Sleeve Type Markers (-751S)</div>
Device Type	IP Address	Subnet Mask					
2100-ESW	192.168.1.3	255.255.255.0					
<div>Unit Loc: 02CDel Prog: SCII</div> <div>Unit ID: 1</div> <div>ENPS - Ethernet Power Supply Unit</div> <div>Rating</div> <div>125A</div> <div>Wiring Diagram</div> <div>10006415245</div> <div>Name Plate Information</div> <div>ETHERNET</div> <div>POWER SUPPLY</div>	<div>Catalog Number: 2100-EPS8KB-30TGM-79U-751M-751S-768C</div> <div>Total Space Factor = 1.5</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (15A Trip)</div> <div>Disconnect Type = Circuit Breaker</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div>Features Included</div> <div>Unit Grd Stab Unplated Cu (-79U)</div> <div>Mylar Device Markers (-751M)</div> <div>Sleeve Type Markers (-751S)</div> <div>Redundant ENet Power Supply (-768C)</div>						
<div>Unit Loc: 02FDel Prog: SCII</div> <div>Unit ID: 12</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK05</div> <div>Total Space Factor = 0.5</div>						

<p><b>Unit Loc: 02G</b>      <b>Del Prog: SCII</b>  <b>Unit ID: 4</b>  FCB - Feeder Circuit Breaker</p> <p><u><b>Rating</b></u>  Dual 100A/20A</p> <p><u><b>Wiring Diagram</b></u>  10006415294</p> <p><u><b>Name Plate Information</b></u>  SPARE</p> <p><u><b>Dual Unit</b></u>  SPARE</p> <p><u><b>Overload Relay(s)</b></u>  Motor Full Load Current (FLC) = Not Available</p>	<p><b>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</b>  Total Space Factor = 1  Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip  Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</p> <p><u><b>Features Included</b></u>  Unit Ground Load Connector Unplated Cu (-79L)  Unit Grd Stab Unplated Cu (-79U)  Mylar Device Markers (-751M)</p>
<p><b>Unit Loc: 02J</b>      <b>Del Prog: SCII</b>  <b>Unit ID: 5</b>  FCB - Feeder Circuit Breaker</p> <p><u><b>Rating</b></u>  Dual 40A/40A</p> <p><u><b>Wiring Diagram</b></u>  10006415287</p> <p><u><b>Name Plate Information</b></u>  SPARE</p> <p><u><b>Dual Unit</b></u>  SPARE</p> <p><u><b>Overload Relay(s)</b></u>  Motor Full Load Current (FLC) = Not Available</p>	<p><b>Catalog Number: 2193F-AKB-79L-79U-751M-3434TGM</b>  Total Space Factor = 1  Circuit Breaker: Thermal Magnetic, 65kA at 480V (40) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 40A/40A Trip  Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</p> <p><u><b>Features Included</b></u>  Unit Ground Load Connector Unplated Cu (-79L)  Unit Grd Stab Unplated Cu (-79U)  Mylar Device Markers (-751M)</p>
<p><b>Unit Loc: 02L</b>      <b>Del Prog: SCII</b>  <b>Unit ID: 4</b>  FCB - Feeder Circuit Breaker</p> <p><u><b>Rating</b></u>  Dual 100A/20A</p> <p><u><b>Wiring Diagram</b></u>  10006415294</p> <p><u><b>Name Plate Information</b></u>  SPARE</p> <p><u><b>Dual Unit</b></u>  SPARE</p> <p><u><b>Overload Relay(s)</b></u>  Motor Full Load Current (FLC) = Not Available</p>	<p><b>Catalog Number: 2193F-AKB-79L-79U-751M-4031TGM</b>  Total Space Factor = 1  Circuit Breaker: Thermal Magnetic, 65kA at 480V (100) with Frame Rating of 125A (G6C Frame), Plug-In Unit, Dual 100A/20A Trip  Lugs Supplied: Std Mech/Lug Pads, 1/0 AWG Size Wire, 1 Cables per Phase</p> <p><u><b>Features Included</b></u>  Unit Ground Load Connector Unplated Cu (-79L)  Unit Grd Stab Unplated Cu (-79U)  Mylar Device Markers (-751M)</p>



**Unit Loc: 03A**      **Del Prog: ENG**  
**Unit ID: 6**  
VFD - PowerFlex 755 AC Drive w/CB

**Rating**

125 HP  
(Heavy Duty)

**Wiring Diagram**

10006435909

**Name Plate Information**

WELL NO. 3  
CONEJO

**Ethernet Information**

Device Type	IP Address	Subnet Mask
2163V	192.168.1.4	255.255.255.0

Cable Length : 2.9 m

PowerFlex 755 Firmware Version : LATEST

**Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A**

Total Space Factor = 6

Wiring: NEMA Type B wiring

Output Current Rating: 156A

Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)

Human Interface Module: LCD full numeric keypad - Door Mounted

Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz

Control Wiring: #16 AWG MTW(TEW) Cu

**Features Included**

Selector Switch: HAND-OFF-AUTO (-3F)

Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)

(2) Drive 120VAC w/ I/O (-14DA2R3)

Thermostat Door Mounted (-14FCT)

Dualport Ethernet (for VFD) (-14GER)

Drive Line Reactor (-14RLX)

Mylar Device Markers (-751M)

Sleeve Type Markers (-751S)

1 Aux and 1 Alarm-Internal-CB (-790A)

**Engineered Spec(s)/Modification(s)**

(1) Customer Load Cables Exit(Bottom)

(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?

(1) Engineered Modification and/or Custom Diagram

(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included

(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17

(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA

(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C

(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch

(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)

<div>Unit Loc: 04ADel Prog: ENG</div> <div>Unit ID: 6</div> <div>VFD - PowerFlex 755 AC Drive w/CB</div> <div><div>Rating</div><div>125 HP</div><div>(Heavy Duty)</div></div> <div><div>Wiring Diagram</div><div>10006435909</div></div> <div><div>Name Plate Information</div><div>WELL NO. 8</div><div>SANTA ROSA</div></div> <div><div>Ethernet Information</div><table><tr><td>Device Type</td><td>IP Address</td><td>Subnet Mask</td></tr><tr><td>2163V</td><td>192.168.1.5</td><td>255.255.255.0</td></tr></table><div>Cable Length : 3.66 m</div><div>PowerFlex 755 Firmware Version : LATEST</div></div>	Device Type	IP Address	Subnet Mask	2163V	192.168.1.5	255.255.255.0	<div>Catalog Number: 2163VB-186HKB-3F-5LRG-14DA2R3-14FCT-14GER-14HBA6-14RLX-51TJM-751M-751S-790A</div> <div>Total Space Factor = 6</div> <div>Wiring: NEMA Type B wiring</div> <div>Output Current Rating: 156A</div> <div>Circuit Breaker: Thermal Magnetic, 65kA at 480V (J6F Frame) (250A Trip)</div> <div>Human Interface Module: LCD full numeric keypad - Door Mounted</div> <div>Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz</div> <div>Control Wiring: #16 AWG MTW(TEW) Cu</div> <div><div>Features Included</div><div>Selector Switch: HAND-OFF-AUTO (-3F)</div><div>Pilot Light(s): RUN-AT SPEED Type: LED Push To Test, Color(s): Red, Green (-5LRG)</div><div>(2) Drive 120VAC w/ I/O (-14DA2R3)</div><div>Thermostat Door Mounted (-14FCT)</div><div>Dualport Ethernet (for VFD) (-14GER)</div><div>Drive Line Reactor (-14RLX)</div><div>Mylar Device Markers (-751M)</div><div>Sleeve Type Markers (-751S)</div><div>1 Aux and 1 Alarm-Internal-CB (-790A)</div></div> <div><div>Engineered Spec(s)/Modification(s)</div><div>(1) Customer Load Cables Exit(Bottom)</div><div>(1) Bulletin 700-HA Tube Base Relay, 3PDT, 3-pole, 3 Form C, Single AgNi Contact,700-HA33?</div><div>(1) Engineered Modification and/or Custom Diagram</div><div>(1) 200 watt extra capacity to Standard Control Transformer Fusing/Fuse Block Included</div><div>(1) Hobbs Elapsed Time Meter, 2.08"w x 1.02"h, 6 digit, 99999.9, non-reset (Option -85T),20001U-17</div><div>(1) Bulletin 800T/H, Contact block, addition to standard number of contacts,800T-XA</div><div>(1) Change 3% to 5% 160 amp reactor (125 HP),1321-3R160-C</div><div>(3) Convert (1) 800F Pilot Light or Selector Switch to (1) 800H Pilot Light or Selector Switch</div><div>(1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</div></div>
Device Type	IP Address	Subnet Mask					
2163V	192.168.1.5	255.255.255.0					
<div>Unit Loc: 05ADel Prog: SCII</div> <div>Unit ID: 11</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK10</div> <div>Total Space Factor = 1</div>						
<div>Unit Loc: 05CDel Prog: SCII</div> <div>Unit ID: 11</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK10</div> <div>Total Space Factor = 1</div>						
<div>Unit Loc: 05EDel Prog: SCII</div> <div>Unit ID: 11</div> <div>DOOR - Blank Unit Door</div>	<div>Catalog Number: 2100-BK10</div> <div>Total Space Factor = 1</div>						

<b>Unit Loc: 05G      Del Prog: ENG</b> <b>Unit ID: 14</b> INSR - Empty Unit Insert  <u><b>Name Plate Information</b></u> WELL 8 DV/DT FILTER	<b>Catalog Number: 2100-NK30-79L-79U</b> Total Space Factor = 3 Without disconnecting means. Disconnect Type = No Disconnect Means  <u><b>Features Included</b></u> Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U)  <u><b>Engineered Spec(s)/Modification(s)</b></u> (1) Power Interwiring - 225A, Max Wire Size: #3/0 AWG (Max 1 per phase) (1) Engineered Modification and/or Custom Diagram (1) Filter,dv/dt,200A,480-600V,60Hz,Open (Nema 1 & 1G Only),V1K200A00 (1) Venting on 3.0 to 6.0 space factor single NEMA type 1 unit door.
<b>Unit Loc: 06A      Del Prog: SCII</b> <b>Unit ID: 12</b> DOOR - Blank Unit Door	<b>Catalog Number: 2100-BK05</b> Total Space Factor = 0.5
<b>Unit Loc: 06B      Del Prog: ENG</b> <b>Unit ID: 8</b> LPAN - Lighting Panel Unit  <u><b>Wiring Diagram</b></u> 10005989973  <u><b>Name Plate Information</b></u> LP4	<b>Catalog Number: 2193LE-AKB327-40WT-31A27-111-751M</b> Total Space Factor = 2.5 Panel Type & Rating: Three Phase, 4-Wire, 120/208V, 100A, 27 total circuits Bolt-On Branch Breakers: None  <u><b>Features Included</b></u> (27) 20A 1-P CB (-31A27)  <u><b>Engineered Spec(s)/Modification(s)</b></u> (1) 2193LE, Lighting Panel - Copper bus, unplated (Aluminum is standard), 100A (30 circuit maximum, 1or 3 phase) (1) Engineered Modification and/or Custom Diagram (1) 2193LE, Lighting Panel - Wire panel to transformer, 100A
<b>Unit Loc: 06G      Del Prog: SCII</b> <b>Unit ID: 7</b> XFMR - Control & Lighting Transformer w/CB  <u><b>Wiring Diagram</b></u> 10006415299  <u><b>Name Plate Information</b></u> TX-LP4	<b>Catalog Number: 2197-WKBH-37TGM-79L-79U-751M-790A</b> Total Space Factor = 3 Secondary Wiring Fusing & Rating: 3-Phase, 120/208V, 3 Fuse, 45.0 kVA Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (70A Trip)  <u><b>Features Included</b></u> Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U) 1 Aux and 1 Alarm-Internal-CB (-790A)

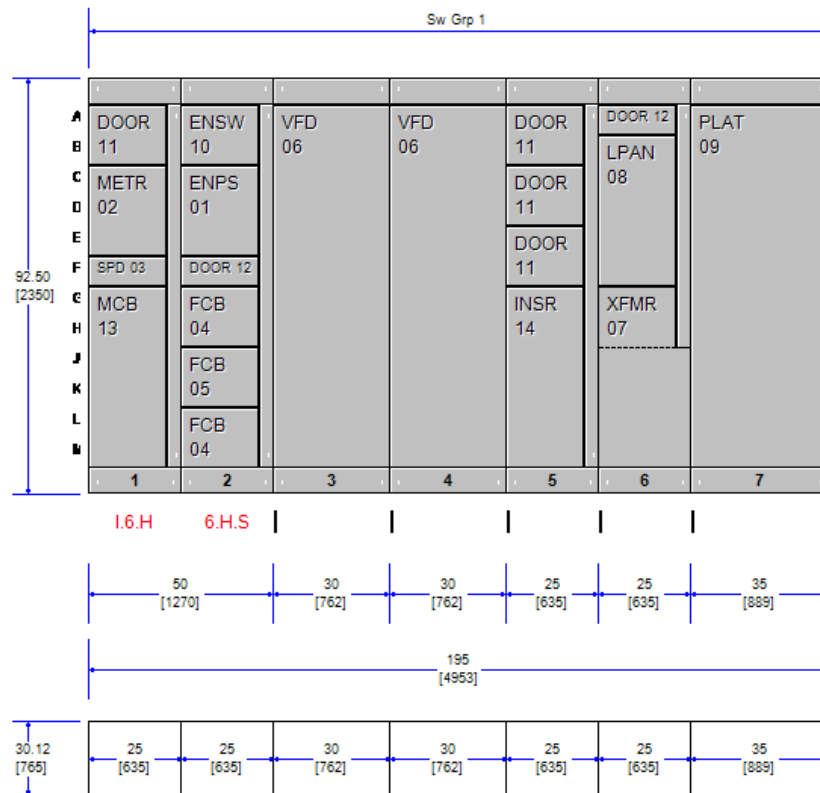
<p><b>Unit Loc: 07A</b>      <b>Del Prog: ENG</b></p> <p><b>Unit ID: 9</b> PLAT - Full Sect Blank Mtg Plate w/ or w/o Disc</p> <p><u><b>Rating</b></u> 20A</p> <p><u><b>Wiring Diagram</b></u> 10006415257</p>	<p><b>Catalog Number: 2100-GKC2X3B-31TGM-120-751M</b> Total Space Factor = 6</p> <p>Rating: 20A Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (20A Trip) Disconnect Type = Circuit Breaker Required Section Width 30" Wide Working Depth 14" Deep</p> <p><u><b>Features Included</b></u> Omit horizontal power bus (-120)</p> <p><u><b>Engineered Spec(s)/Modification(s)</b></u>  (1) Customer Load Cables Exit(Bottom)  (1) Compact Logix 2MB Motion Controller,1769-L33ERM  (1) Engineered Modification and/or Custom Diagram  (2) 120V AC INPUT MODULE,1769-IA16  (1) 8 ANALOG INPUTS,1769-IF8  (1) POWER SUPPLY,1769-PA4  (2) Power Supply, 120W, 24VDC, 5A output, 120-240VAC input,1606-XLS120E  Note - 1606-XLE240E  (1) END CAP RIGHT,1769-ECR  (2) 1000VA Control Transformer-Fusing/Fuse Block Included ,1497-K-BASX-0-N  Note - 1.6KVA XFMR  (30) IEC Terminal Blocks,1492-JG4,6,10?  (200) I/O Wiring to terminal blocks within a PLC, SLC or ControlLogix unit (per wire)  (200) Finger-Safe High Density Terminal Blocks,1492-H1,2,4,5,6,7?  (2) Receptacle, Duplex, GFI, 120V, 15A maximum, mounted on door behind 3R door (for 3R only enclosures) or inside unit behind door Nema 1/1g or 12 , power source not included  (4) Pduit Wiring Duct and Covers (White, 6 ft length) (Width, Height determined by adding PCB Note)  (1) 8 CURRENT ANALOG OUTPUTS,1769-OF8C  (1) 120/240V AC OUTPUT MODULE,1769-OA16  (1) Control Wire Color, Non-Standard, Standard Colors: Red-AC, Blue-DC, Red-neutral, Green/Yellow-ground (per unit)</p>
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### Centerline 2100 Motor Control Center Front Elevation

Project Name: CWD - Conejo Wells  
Project Item: MCC-4 - N3R  
Project ID #: 5271772/6

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:04

Rockwell Automation/Allen-Bradley  
PowerControl Builder Lineup



NOTE: Dimensions are subject to change after design review.

ENCLOSURE: NEMA Type 3R (Outdoor Non-Walk-In: the external width of each NEMA Type 3R cabinet is 5" wider and 10" deeper than its internal section)

Estimated Heat Loss: 6593 watts

BTU/hr Required: 22497

Air Conditioning Tons: 1.88

Estimated Weight: 5250 lb (2381 kg)

Heat loss values are for estimating purposes only.

# Rockwell Automation

## Centerline 2100 Motor Control Center

### Unit Nameplate Report

Project Name: CWD - Conejo Wells  
Project Item: MCC-4 - N3R  
Project ID #: 5271772/6

Salesperson: Juan Campos  
Created By: Juan Campos  
Date/Time: 10/25/21 - 21:04

**Master Nameplate Type** - No Master Nameplate Supplied

**Unit Nameplate Type** - Acrylic - Black letters on white (3 lines)  
(Maximum characters per line is 17 / 15 / 17)

**IP Address** - IP Address Not Included on Nameplate

#### Section 1

Location: 01A DOOR Space Factor: 1 Wiring Diagram Number: 10002277148

Location: 01F SPD Space Factor: 0.5 Wiring Diagram Number: 10006415263
SPD

Location: 01C METR Space Factor: 1.5 Wiring Diagram Number: 10006415275
POWER
METER

Location: 01G MCB Space Factor: 3 Wiring Diagram Number: 10006130039

#### Section 2

Location: 02A ENSW Space Factor: 1 Wiring Diagram Number: 10006415249
ETHERNET SWITCH

Location: 02C ENPS Space Factor: 1.5 Wiring Diagram Number: 10006415245
ETHERNET
POWER SUPPLY

<b>Location: 02F DOOR</b> <b>Space Factor: 0.5</b> <b>Wiring Diagram Number: 10002277146</b>

<b>Location: 02J FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

<b>Location: 02G FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02L FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02G FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02L FCB Right</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415294</b>
SPARE

<b>Location: 02J FCB Left</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10006415287</b>
SPARE

### **Section 3**

<b>Location: 03A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
WELL NO. 3
CONEJO

### **Section 4**

<b>Location: 04A VFD (125 HP)</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006435909</b>
WELL NO. 8
SANTA ROSA

#### **Section 5**

<b>Location: 05A DOOR</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10002277148</b>

<b>Location: 05E DOOR</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10002277148</b>

<b>Location: 05C DOOR</b> <b>Space Factor: 1</b> <b>Wiring Diagram Number: 10002277148</b>

<b>Location: 05G INSR</b> <b>Space Factor: 3</b> <b>Wiring Diagram Number: 10003296377</b>
WELL 8
DV/DT FILTER

#### **Section 6**

<b>Location: 06A DOOR</b> <b>Space Factor: 0.5</b> <b>Wiring Diagram Number: 10002277146</b>

<b>Location: 06G XFMR</b> <b>Space Factor: 3</b> <b>Wiring Diagram Number: 10006415299</b>
TX-LP4

<b>Location: 06B LPAN</b> <b>Space Factor: 2.5</b> <b>Wiring Diagram Number: 10005989973</b>
LP4

#### **Section 7**



<b>Location: 07A PLAT</b> <b>Space Factor: 6</b> <b>Wiring Diagram Number: 10006415257</b>



2A	ENSW	0	0	0	ETHERNET SWITCH				2A-R	192.168.1.3 255.255.255.0			
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**Ethernet Switch Port Capacity**

Uplink	Switch group	Section	Consumed Switch Ports		Available Switch Ports
1	1	1	2	4	4
		2	0		
		3	1		
		4	1		
		5	0		
		6	0		
		7	0		

The following material is provided to members of the Board for information only and is not formally a part of the published agenda.

A. 2021 Board Calendar

# 2021 Camrosa Board Calendar

JANUARY							FEBRUARY							MARCH							2021 Observed Holidays						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	January 1 <sup>st</sup> - New Year's Day						
					1	2		1	2	3	4	5	6		1	2	3	4	5	6	February 15 <sup>th</sup> - President's Day						
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	May 31 <sup>st</sup> - Memorial Day						
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	July 5 <sup>th</sup> - Independence Day (Observed)						
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	September 6 <sup>th</sup> - Labor Day						
24	25	26	27	28	29	30	28							28	29	30	31				November 11 <sup>th</sup> - Veteran's Day						
31																					November 25 <sup>th</sup> & 26 <sup>th</sup> - Thanksgiving						
																					December 23 <sup>rd</sup> & 24 <sup>th</sup> - Christmas						
																					December 31 <sup>st</sup> - New Year's Eve						
APRIL							MAY							JUNE							2021 Conferences						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	CASA Winter Conf. (**Virtual Event**) - Jan. 27 <sup>th</sup> - 28 <sup>th</sup>						
				1	2	3							1			1	2	3	4	5	ACWA Spring Conf. (Monterey) - May 4 <sup>th</sup> - 7 <sup>th</sup>						
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	CASA 66th Annual Conf. (San Diego) - Aug. 11 <sup>th</sup> - 13 <sup>th</sup>						
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	ACWA Fall Conf. (Pasadena) - Nov. 30 <sup>th</sup> - Dec. 3 <sup>rd</sup>						
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26							
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30										
							30	31																			
JULY							AUGUST							SEPTEMBER							2021 AWA Meetings						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	"Water Issues" Third Tuesday (except Apr., Aug., Dec.)						
				1	2	3	1	2	3	4	5	6	7				1	2	3	4	Waterwise Breakfast (See yellow on calendar)						
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11	AWA Board Meetings (See orange on calendar)						
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18	August - DARK (No Meetings or Events)						
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25	September 30 <sup>th</sup> - Reagan Library Reception						
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30			October 21 <sup>st</sup> - Annual Symposium						
																					December 9 <sup>th</sup> - Holiday Mixer						
OCTOBER							NOVEMBER							DECEMBER							2021 VCSDA Meetings						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	February 2 <sup>nd</sup> - Annual Dinner						
					1	2		1	2	3	4	5	6				1	2	3	4	April 6 <sup>th</sup>						
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	June 1 <sup>st</sup>						
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	August 3 <sup>rd</sup>						
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	October 5 <sup>th</sup>						
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31		December 7 <sup>th</sup>						
31																											
Camrosa Water District							<b>Note:</b> Board of Directors meetings are highlighted in RED. Board Meetings are held on the <u>2nd &amp; 4th Thursday</u> of each month at 5pm unless indicated.																				
7385 Santa Rosa Road																											
Camarillo, CA 93012																											