

CITY OF HOLLYWOOD, FLORIDA
 UTILITY CONSTRUCTION PROJECT
CONTRACT CHANGE ORDER No. 2

Page 1 of 1
 Change Order No. 1
 Date: 07/12/2023

CITY FILE No: 19-9119A

PROJECT: DEEP INJECTION WELLS NO.

PO No: PFY224105

3 AND NO. 4 PUMP STATION

CONTRACTOR/ ADDRESS: Cardinal Contractors, Inc.
 13794 NW 4th Street, Suite 200, Sunrise, FL 33325

TRANSFER FROM ACC.:

CONTRACT DATE: 3/31/2022

ORIGINAL CONTRACT PRICE: \$112,299,970.00

STATEMENT OF CHANGE

IN COMPLIANCE WITH THE ARTICLE 10 AND ARTICLE 11 OF THE GENERAL CONDITIONS IN THE ABOVE REFERENCE CONTRACT, THE CONTRACTOR AND THE CITY DO BOTH HEREBY AGREE THAT THE CONTRACTOR SHALL MAKE THE FOLLOWING CHANGES, ADDITIONS OR DEFLECTIONS TO THE WORK SPECIFIED IN THE PLANS AND SPECIFICATIONS:

DESCRIPTION OF CHANGE		INCREASE	DECREASE
<u>Field Changes</u>			
1	CP 006 - Control Panel Changes	\$38,951.55	
2	CP 009 - Additonal Twisted Sheilded Pair Cables (PLC 16)	\$2,224.18	
3	CP 011 - 42-Inch Temporary Cap on SEC Line	\$90,830.48	
4	CP 012 - BDA Grid Test for Fire System	\$2,730.65	
2	CP 019 - Additional Twisted Shielded Pair Cables (STC-1014)	\$5,316.95	
<u>Remaining Contract Contingency Allowance (\$2,966,246.49)</u>			
Contingency Decrease			(\$140,053.81)
TOTAL INCREASE/DECREASE IN CONTINGENCY AND ALLOWANCES		\$140,053.81	(\$140,053.81)

This change order includes any amounts for charges in the sequence of work, time extensions, delays, disruptions, re-scheduling, extended overhead, acceleration and/or impact cost.

REMAINING CONTINGENCY	\$2,826,192.68	
CONTRACT PRICE /TIME PRIOR TO THIS CHANGE ORDER:	\$112,299,970.00	1,000 DAYS
NET CHANGE IN CONTRACT PRICE/TIME:	\$0.00	0 DAYS
REVISED CONTRACT PRICE /TIME WITH CHANGE ORDER	\$112,299,970.00	1,000 DAYS
REVISED COMPLETION DATE: No Change		

APPROVAL BY CONSULTANT

I have examined the above changes. They are necessary to satisfactorily complete the Contract. The price changes are reasonable and I recommend that the changes be made.

RECOMMENDED BY: Mark Hehn DATE: 7/13/2023
 Brown and Caldwell

ACCEPTANCE BY CONTRACTOR

I agree that the above changes in said Contract, in accordance with the Specifications for the price changes shown, are satisfactory.

BY: _____ DATE: _____
 Cardinal Contractors, Inc.

APPROVAL BY CITY OF HOLLYWOOD

The above changes are hereby approved. The contractor is authorized to proceed with these changes and the change shown in the contract price is authorized.

APPROVED BY: _____ DATE: _____
 JOSH LEVY, MAYOR

* ASSISTANT DIRECTOR OF PUBLIC UTILITIES (NOT TO EXCEED \$5,000.00)
 * UTILITIES DIRECTOR (NOT TO EXCEED \$10,000.00)
 * CITY MANAGER (NOT TO EXCEED \$50,000.00 WITHOUT CITY COMMISSION APPROVAL)

1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323

T: 954.200.7611

June 22, 2023



Ms. Wilhelmina Montero, P.E.
Senior Project Manager
Department of Public Utilities - ECSD
City of Hollywood
1621 N. 14th Avenue
Hollywood, Florida 33022

158421

Subject: Deep Injection Wells No. 3 and No. 4 Pump Station Project
Cardinal's Cost Proposal CP-006 Control Panel Modifications

Dear Ms. Montero:

Please receive this letter as Brown and Caldwell's recommendation to accept Cardinal's change proposal CP-006 for modifications to two pump control panels.

We have reviewed the proposal in the amount of \$38,951.55 and find it to be reasonable for the work entailed in the scope of changes communicated to the contractor, which is described as follows:

The original design called for a 5.0 HP, 460V, 3-phase motor for sample pump (PMP-1021), which is the lower zone submersible pump at the monitoring well. The power system requirements and control panel were designed to accommodate a pump utilizing those characteristics. Due to manufacturing and scheduling issues, the supplier cannot provide a pump with as specified causing the need to modify the component requirements of control panel LCP-1021 to accommodate a ½ HP, 230V, 1-phase powered pump.

It was also determined that LCP-1021 could be utilized as specified to become a Vendor Control Panel (VCP-3070-4) for the portable submersible pump (PMP-3070-4) at the IWPS, which had no control panel called for, but needed one.

Summary:

1. Additional cost to build and install a different LCP-1021 with components to accommodate a ½ HP, 230V, 1-phase sample pump.
2. Cost to provide engineering and startup for VCP-3070-4, which will be repurposed from the original LCP-1021.

Very truly yours,

Brown and Caldwell

A handwritten signature in blue ink that reads "Mark Harber".

Mark Harber, Construction Manager
Sunrise, Florida



May 12, 2023

Mr. Mark Harber
Project Manager
Brown and Caldwell | Hollywood SRWTP
MHarber@Brwncald.com

**Re: City of Hollywood, SRWTP Deep Injection Wells No. 3 and No. 4 Pump Station
Cardinal Job #: 85030, City Project #: 19-9119A
Change Proposal: CP-006. RFI Control Panel Design Changes**

Mr. Harber,

Brown & Caldwell requested that CCI submit a cost proposal for a change in design for the pump control panels old LCP-1021 and new VCP-3070-4. (Reference RFI-141-R2).

It was determined that the change in electrical subcontractor and controls subcontractor work were minimal and no cost was added for them.

Assumptions:

- Cost estimate includes material changes and all changes that result in additional engineering, administrative and subcontractor or construction work for a complete system delivery.

Cost and Schedule proposal:

1. **Schedule: Delays is the panel delivery related to the change will be excluded from any potential project delays that may result in LD's or startup delays.**
2. **Cost:**

Cost Summary by Category

a. Material Total		\$34,874.00
b. Labor Total		\$536.50
c. Subcontract		\$0.00
d. Equipment Total		\$0.00
e. Overhead	10% of line a	\$3,487.40
f. Overhead	10% of line b	\$53.65
g. Fee	7.5% of line c	\$0.00
h. Fee	10% of line d	\$0.00
i. Profit	0% of a-h	\$0.00
j. Bond Allowance	0%	\$0.00

Total Estimated Cost \$38,951.55



Attached:

- Cost breakout
 - Vendor change order
 - RFI
 - CP drawing
-

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Scott'.

John Scott

Sr. Project Manager
Cardinal Contractors / Primoris Water & Mechanical
John.scott@prim.com
www.prim.com

CC:

COST ESTMATE SHEET

City of Hollywood
 Deep Injection Wells No. 3 and No. 4 Pump Station
 City Project #: 19-9119A

Cardinal Job No. 85030
 Proposal No. 006

Description: CP-006. RFI Control Panel Design Changes

COST CODE	DESCRIPTION	UNIT	QTY	MATERIALS (Include 6% FSST)		LABOR			SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS		
				(31)		LABOR		LABOR	(11 & 16)	(41)		(20 & 21)			
				UP	TOTAL	HRS/UNIT	MH	RATE	TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
	TOTALS ----->				\$34,874.00		8.0		\$536.50		\$0.00		\$0.00		\$35,410.50
	Labor Burden	LS	1					0.00	\$0.00						\$0.00
	Fuel/EOE	LS	1												\$0.00
	Sales Tax	LS	1	0.06	\$1,974.00						0	\$0.00			\$1,974.00
	SUBTOTALS				\$32,900.00		8		\$536.50		\$0.00		\$0.00		\$33,436.50
	SCOPE OF WORK:														
	Project Engineer	MH	0					0.0	68.00	\$0.00					\$0.00
	Field Engineer	MH	1					5.0	60.50	\$302.50					\$302.50
	Construction Manager	MH	0					0.0	102.00	\$0.00					\$0.00
	Superintendent	MH	0					0.0	85.00	\$0.00					\$0.00
	QA/QC Manager	MH	1					3.0	78.00	\$234.00					\$234.00
	Onsite Safety Coordinator	MH	0					0.0	64.00	\$0.00					\$0.00
	Surveyor	MH	0					0.0	87.47	\$0.00					\$0.00
	Subcontractor														
	Electrician (materials and work)	EA	1							\$0.00					\$0.00
	Controls Sub (Instruments, calib., PLC integration)	EA	1							\$0.00					\$0.00
	Controls surtax	EA	1							\$0.00					\$0.00
	Additional Labor and equipment														
	Labor														
	Operator / Foreman	MH	0					0.0	80.47	\$0.00					\$0.00
	Equipment Operator	MH	0					0.0	80.47	\$0.00					\$0.00
	Laborer Skilled General	MH	0					0.0	51.91	\$0.00					\$0.00
	Carpenter	MH	0					0.0	51.91	\$0.00					\$0.00
	Pipe Layer	MH	0					0.0	51.91	\$0.00					\$0.00
	Materials														
	LCP panel change net hardware change	LOT	1	24,585.00	\$24,585.00			0.0		\$0.00			\$0.00		\$24,585.00
	Supplier engineering / administration	LOT	1	8,265.00	\$8,265.00			0.0		\$0.00			\$0.00		\$8,265.00
	Surtax	LOT	1	50.00	\$50.00			0.0		\$0.00			\$0.00		\$50.00



Date: May 2, 2023

To: Cardinal Contractors
1621 N 14th Avenue
Hollywood, FL 33019

From: Carter & VerPlanck, a DXP Company
4910 W Cypress St.
Tampa, FL 33607

We are in receipt of your RFI response for RFI-141R and we offer the following description and cost:

Equipment and Materials:

Supply Quantity: One (1) “**New** LCP-1021” control panel that will feed the redesigned Submersible Monitoring Sample Pump (PMP-1021). Motor starter will be rated 1/2 HP, 230VAC, 1-Phase. The new LCP-1021 panel will include a 316 SS NEMA 4 X Enclosure, Back panel, Dead front, Light, 3 PH Monitor device, Surge protectors, Enclosure light, Heater/Thermostat, Transformer, Schneider Starter, etc. This new LCP-1021 control panel will be detailed and submitted for review in the newest resubmittal package for submittal # 40 67 00-02-01.3 Pump Control Panel.

“**Old**” LCP-1021 that was originally quoted to feed the Monitoring Well Sample Pump (PMP-1021) will be modified and reused to feed PMP-3070-4 (Portable Sump Pump) and will be re-labeled as **VCP-3070-4**, per request. A new submittal package will be supplied for this control panel once the change order is approved.

Total cost of materials and equipment being provided = **\$24,585.00**

Design Services and Man Hours:

- Additional engineering hours to revise the submittal package and include New LCP-1021 panel: Eight (8) hours.
- Additional CAD hours needed to revise and update the control panel submittal to reflect the additions and changes: Eight (8) hours.
- Additional documentations hours: Four (4)
- Production hours to build the new panel: Sixteen (16) Hours
- Additional engineering hours for onsite start-up for New VCP-3070-4 CP: Eight (8) Hours
- Additional project management hours to coordinate the changes/additions internally and externally: Eight (8) Hours

Total cost for design services, and labor = **\$8,265.00**



Total change order cost: \$32,850.00

Please don't hesitate to contact me with any questions.

Sincerely,
Chris Walker
Carter & VerPlanck, a DXP Company

Cardinal Contractors, Inc.**REQUEST FOR INFORMATION
No. 141-Rev.2****Title:** RFI-141-Rev.2 Refitted Control Panel for PMP-3070-4**Date:** 4/26/2023**Project:** Injection Well No. 3 & 4 Pump Station**Job No:** City - 19-9119A
Prim - 85030**Request By:** Primoris / Cardinal Contractors, Inc. (CCI)**To:** Attn: Mr. Mark Harber
Brown and Caldwell (B&C)
1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323**Completed:**
Required: 5/3/2023

REQUEST:

Please see attached response to RFI-141-Rev.1 for reference. Please see attached document showing a cost proposal from Carter & Verplanck regarding the refitted control panel. Review and confirm acceptance. After approval, we'll submit a corresponding Change Order.

ANSWER:

A scope change is acknowledged. Submit a formal cost proposal.

Complete supply, installation, and commissioning of the new pump control panel LCP-1021 for the 1/2HP, 230V, 1-phase monitoring well pump, which shall be in accordance with the approved submittal drawings. (Note: The installation and commissioning cost are already included in the original LCP-1021 with 5HP, 460V, 3-ph pump)

Complete supply and testing of existing pump control panel LCP-1021 which is being converted or modified accordingly, and re-labeled as new pump control panel VCP-3070-4 suitable for use on the 10HP, 460V, 3-phase portable sump pump.

Complete supply of all required documentations, submittal drawings, and O&M manuals for all control panels associated with this RFI.

Submitted By: Alonso Chigne Valerga

Response by: Mark Harber

Signed: Alonso Chigne ValergaSigned: Mark Harber

Brown and Caldwell 4/28/2023



Date: April 26, 2023

To: Cardinal Contractors
1621 N 14th Avenue
Hollywood, FL 33019

From: Carter & VerPlanck, a DXP Company
4910 W Cypress St.
Tampa, FL 33607

We are in receipt of your RFI response for RFI-141R and we offer the following description and cost:

Equipment and Materials:

Supply Quantity: One (1) "New LCP-1021" control panel that will feed the redesigned Submersible Monitoring sample pump (PMP-1021). Motor starter will be rated 1/2 HP, 230VAC, 1-Phase. The new LCP-1021 panel will include a 316 SS NEMA 4 X Enclosure, Back panel, Dead front, Light, 3 PH Monitor device, Surge protectors, Enclosure light, Heater/Thermostat, Transformer, Schneider Starter, etc. This new LCP-1021 control panel will be detailed and submitted for review in the newest resubmittal package for submittal # 40 67 00-02-01.3 Pump Control Panel.

"Old" LCP-1021 that was originally quoted to feed the Monitoring Well Sample Pump (PMP-1021) will be modified and reused to feed PMP-3070-4 (Portable Sump Pump) and will be re-labeled as VCP-3070-4, per request. A new submittal package will be supplied for this control panel once the change order is approved.

Total cost of materials and equipment being provided = \$24,585.00

includes new LCP-1021 and modified VCP-3070-4

Design Services and Man Hours:

- Additional engineering hours to revise the submittal package and include New LCP-1021 panel: Eight (8) hours.
- Additional CAD hours needed to revise and update the control panel submittal to reflect the additions and changes: Eight (8) hours.
- Additional documentations hours: Four (4)
- Production hours to build the new panel: Sixteen (16) Hours
- Additional engineering hours for onsite start-up for New LCP-1021 CP: Eight (8) Hours
- Additional project management hours to coordinate the changes/additions internally and externally: Eight (8) Hours

should be for new VCP-3070-4 ok

start-up of the existing LCP-1021 has been accounted for in the original bid and should apply to the replacement panel

Total cost for design services, and labor = \$8,265.00



Total change order cost: \$32,850.00

Please don't hesitate to contact me with any questions.

Sincerely,
Chris Walker
Carter & VerPlanck, a DXP Company

Cardinal Contractors, Inc.**REQUEST FOR INFORMATION****No. 141R****Title:** RFI-141R Refitted Control Panel for PMP-3070-4**Date:** 2/20/2022**Project:** Injection Well No. 3 & 4 Pump Station**Job No:** City - 19-9119A
Prim - 85030**Request By:** Primoris / Cardinal Contractors, Inc. (CCI)**To:** Attn: Mr. Mark Harber
Brown and Caldwell (B&C)
1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323**Completed:**
Required: 2/27/2022**REQUEST:**

Please confirm acceptance of the new Control Panel for PMP-3070-4 & LCP-1021.

RFI-125 appears to acknowledge the need for the modifications and new control panel (information was also included on the same RFI about SESC Generator and Motorized Roll up Doors - perhaps this a typographical error?).

RFI-141 acknowledged the suitability of the new Control Panel, modified labeling, disconnections etc. However, there is no clear agreement to go ahead with the CP for which the vendor has provided pricing of \$32,850.00

Does the ERO accept the panel?

ANSWER:

This response shall not be construed to be acceptance of the stated additional cost. Provide a comprehensive breakdown of the proposed scope and pricing for the \$32,850.

Note: Is this proposed price entirely for a new LCP-1021 in accordance with the latest submittal # 40 67 00-02-01.3 Pump Control Panel for the new LCP-1021 (1/2HP, 230V, 1-ph)? This control panel submittal still has an RAR review status.

Or does the proposed price include cost to modify the old LCP-1021 (5HP, 460V, 3-ph) to work on the 10HP, 3-ph pump PMP-3070-4 (portable pump) which the required control modifications have not been submitted by the Contractor or reviewed by the Engineer?

The EOR has conditionally accepted the new control panel LCP-1021 in accordance with the latest submittal although it is required to be revised and resubmitted again due to additional review comments.

The modified or retrofitted LCP-1021 that becomes the new VCP-3070-4 has not been submitted or reviewed so the EOR cannot make a conditional approval or acceptance on this panel.

Responded by: R. Abordo

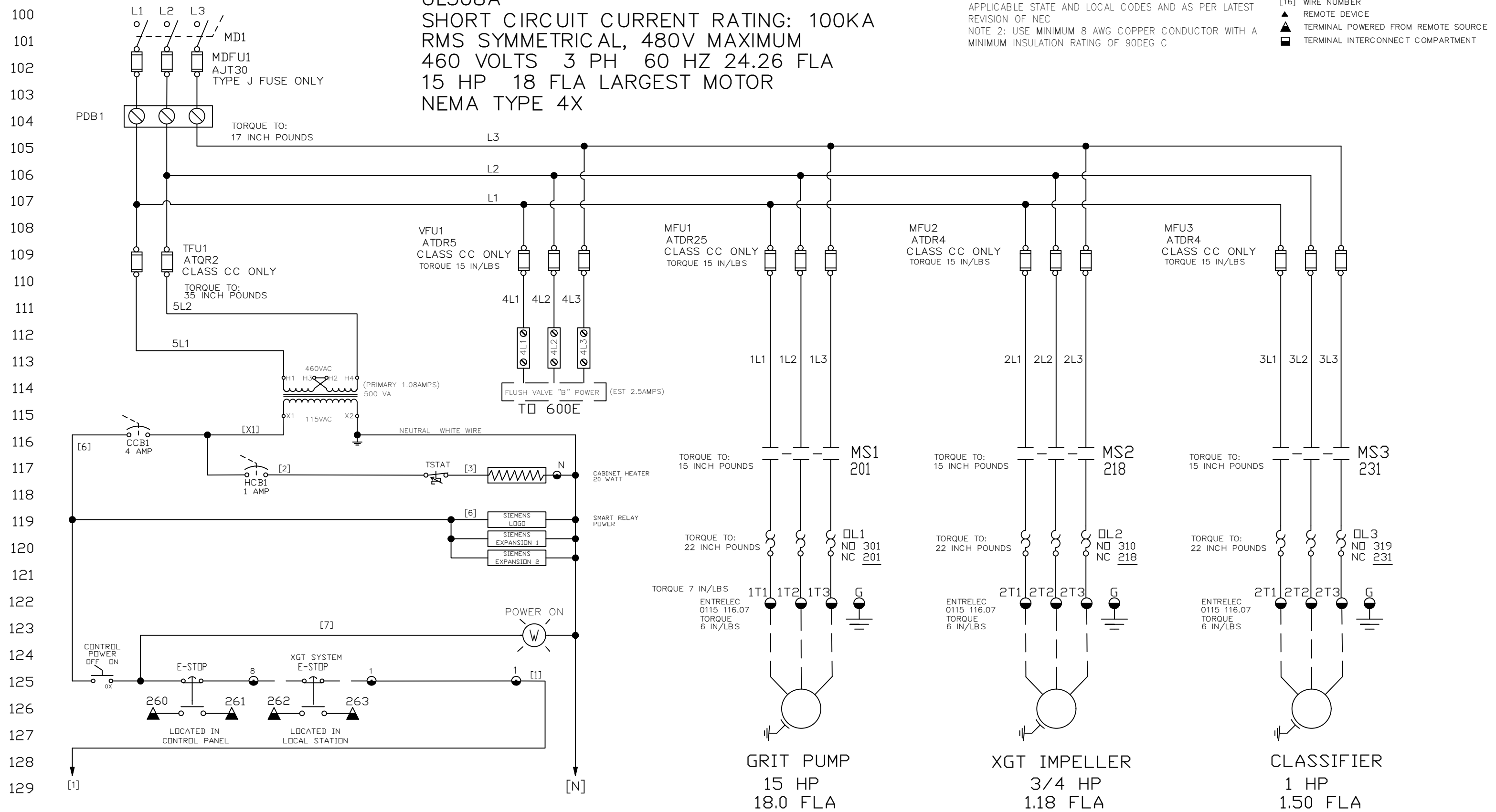
Submitted By: Alonso Chigne Valerga**Response by:** Mark Harber**Signed:***Alonso Chigne Valerga***Signed:** *Mark Harber*


Brown and Caldwell 4/20/2023

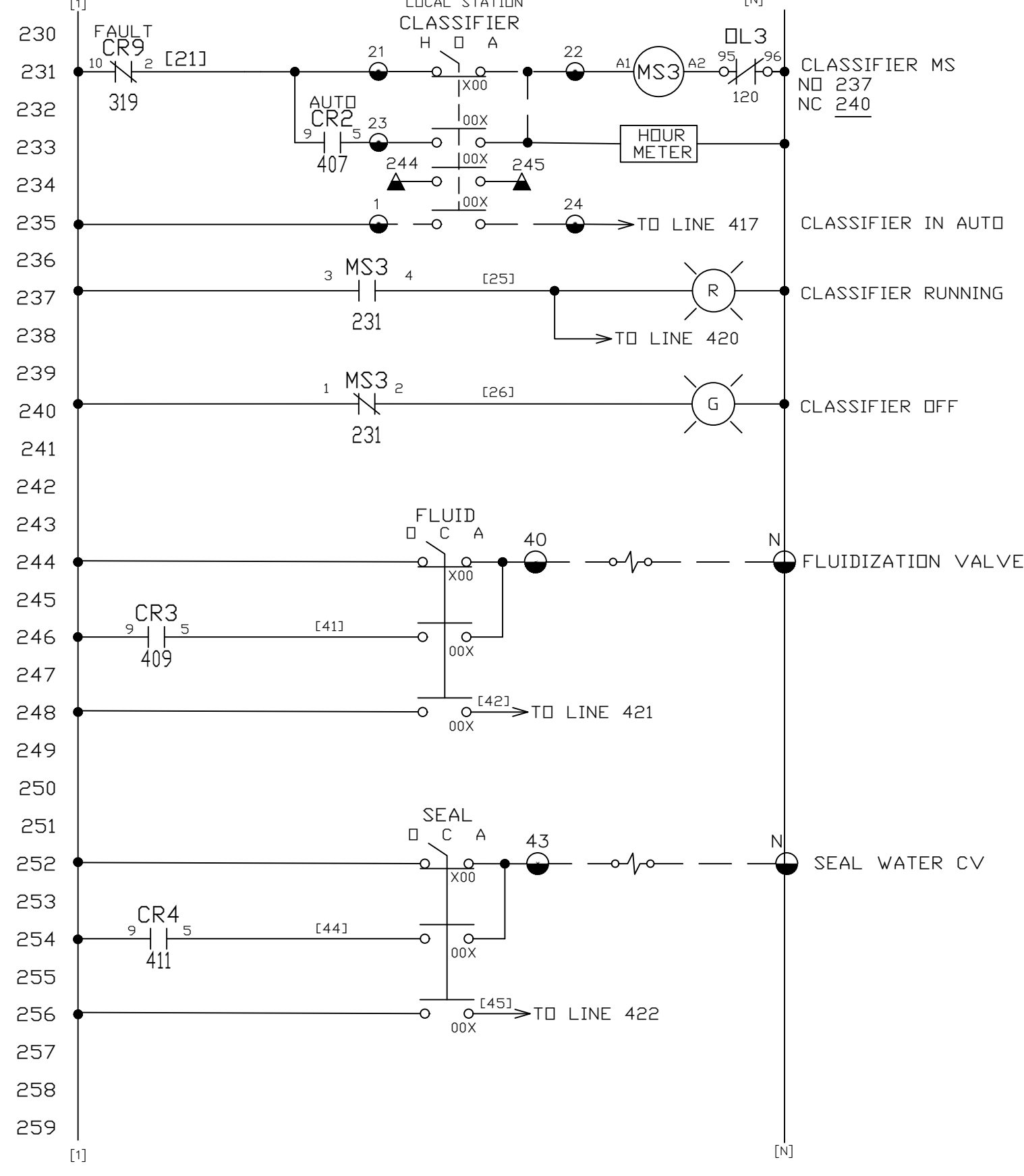
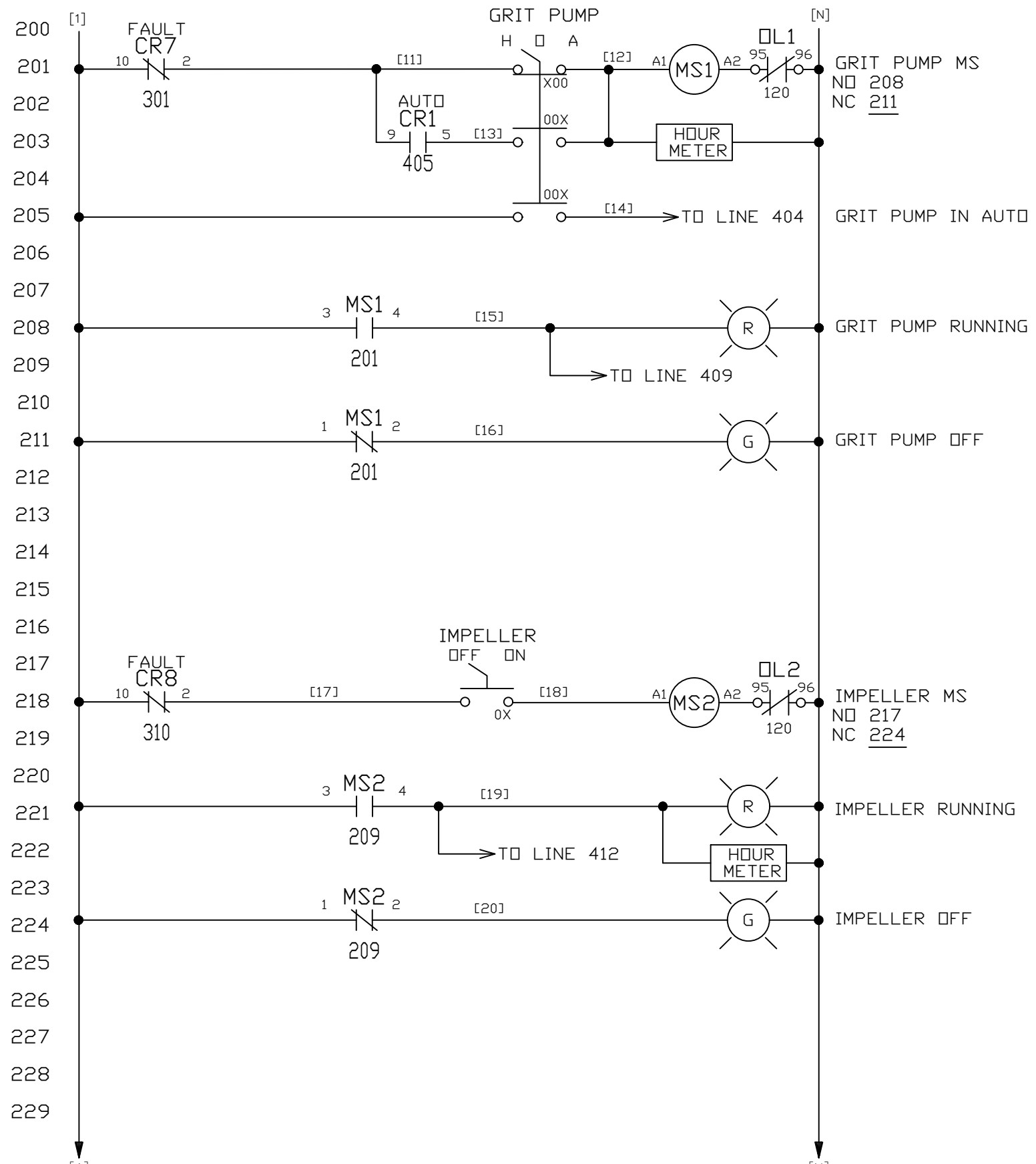
UL508A
 SHORT CIRCUIT CURRENT RATING: 100KA
 RMS SYMMETRICAL, 480V MAXIMUM
 460 VOLTS 3 PH 60 HZ 24.26 FLA
 15 HP 18 FLA LARGEST MOTOR
 NEMA TYPE 4X

NOTE 1: THIS PANEL SHALL BE INSTALLED OBSERVING ALL APPLICABLE STATE AND LOCAL CODES AND AS PER LATEST REVISION OF NEC
 NOTE 2: USE MINIMUM 8 AWG COPPER CONDUCTOR WITH A MINIMUM INSULATION RATING OF 90DEG C

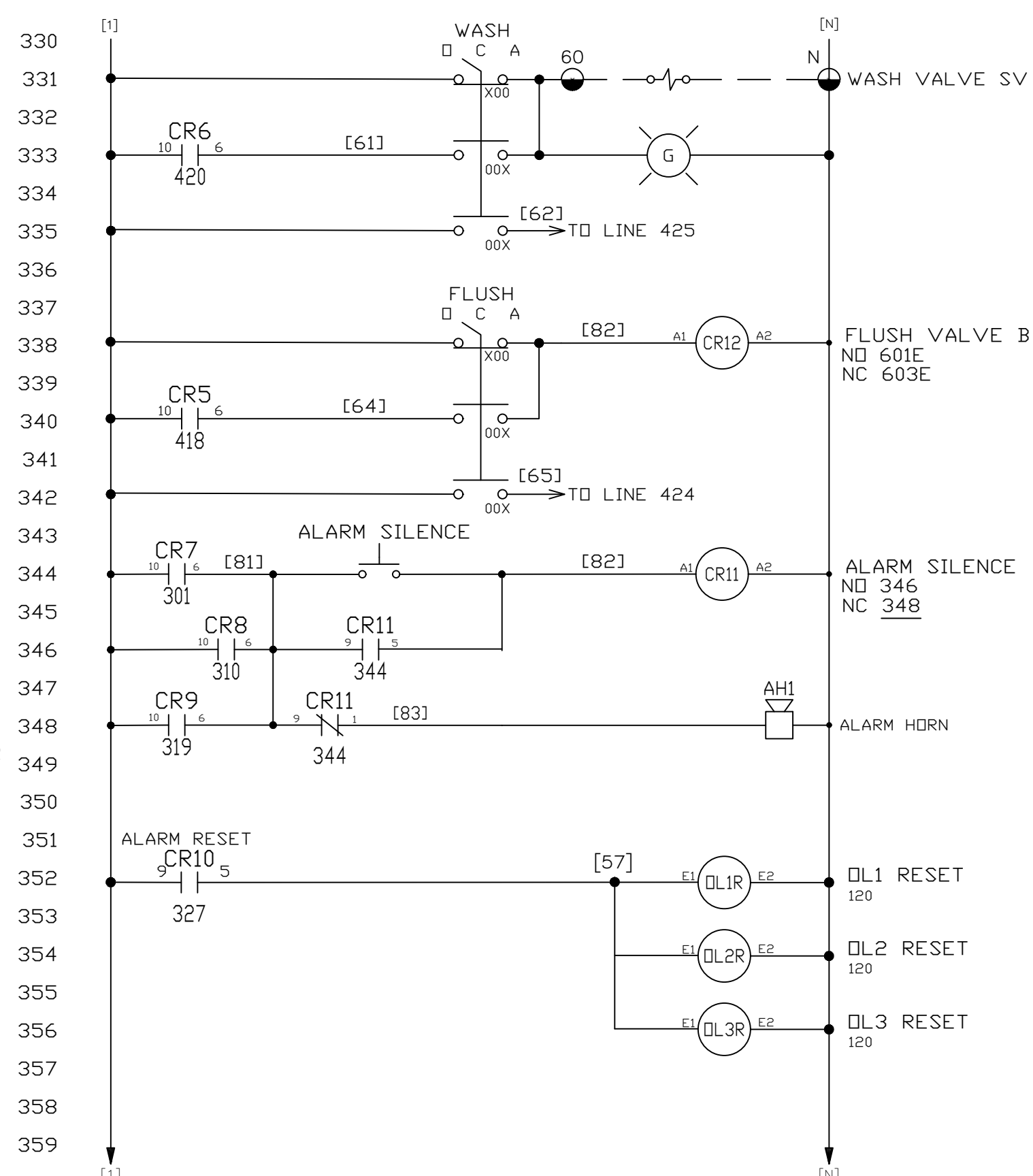
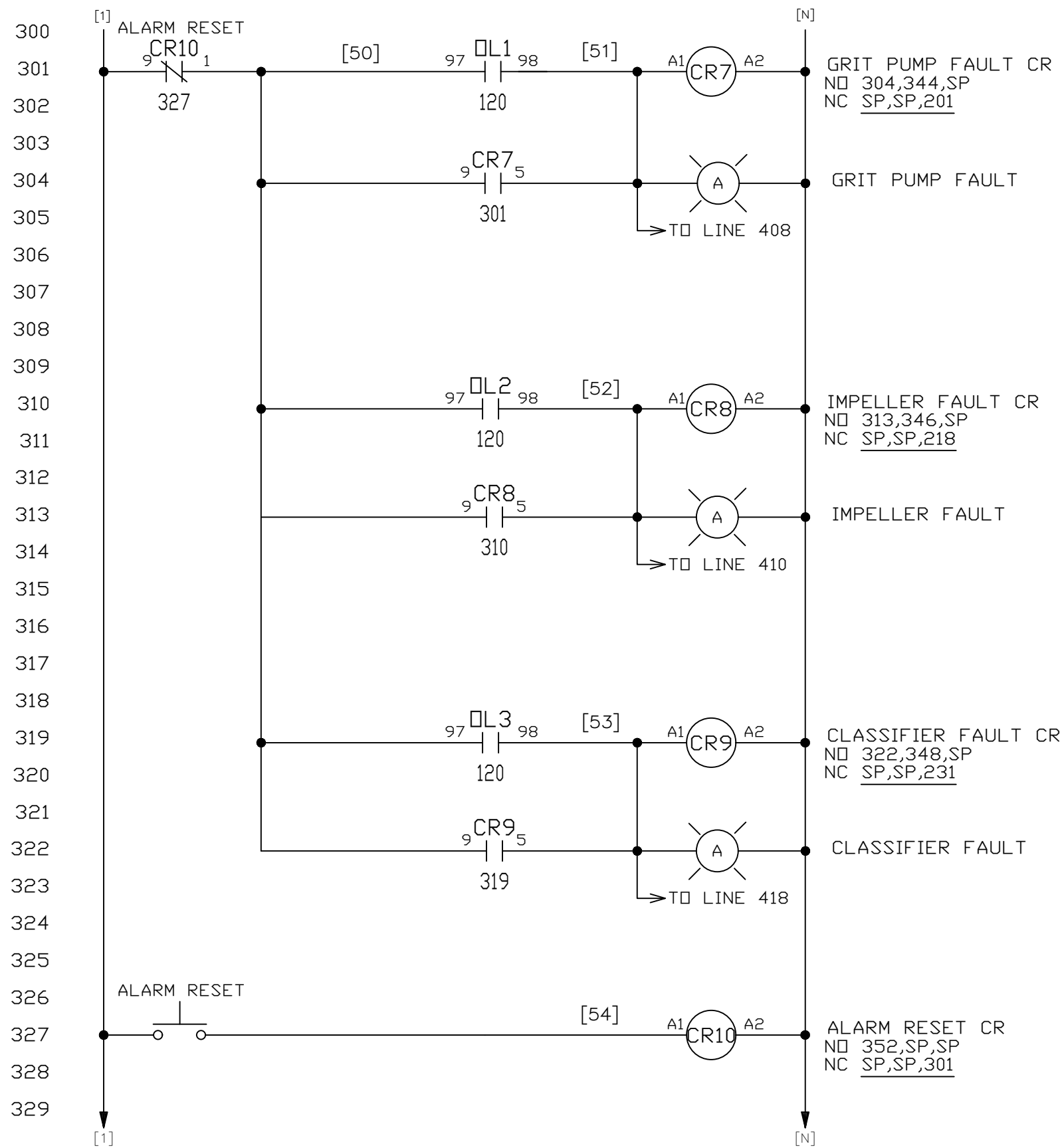
- TERMINAL
- [16] WIRE NUMBER
- ▲ REMOTE DEVICE
- ▲ TERMINAL POWERED FROM REMOTE SOURCE
- TERMINAL INTERCONNECT COMPARTMENT



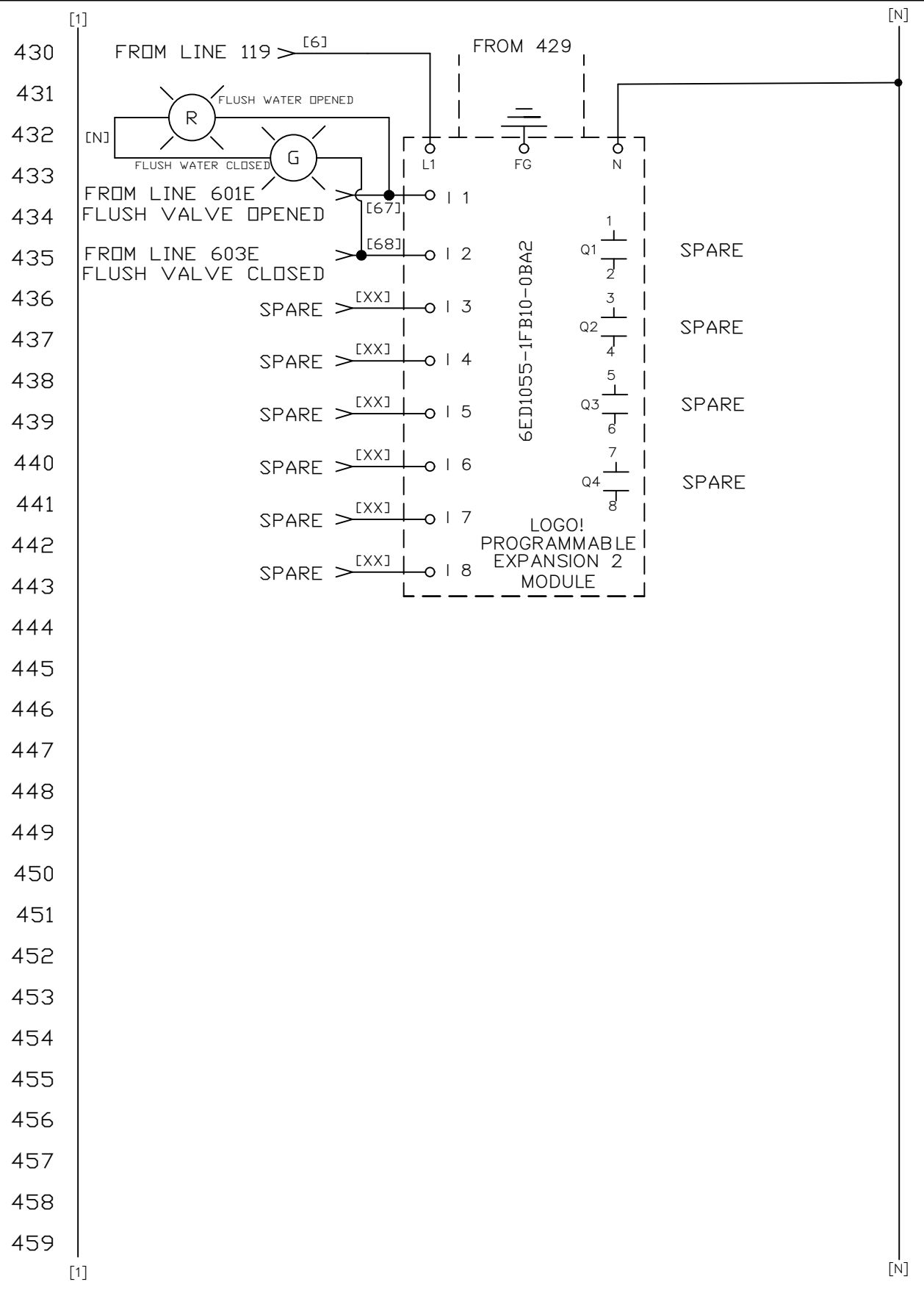
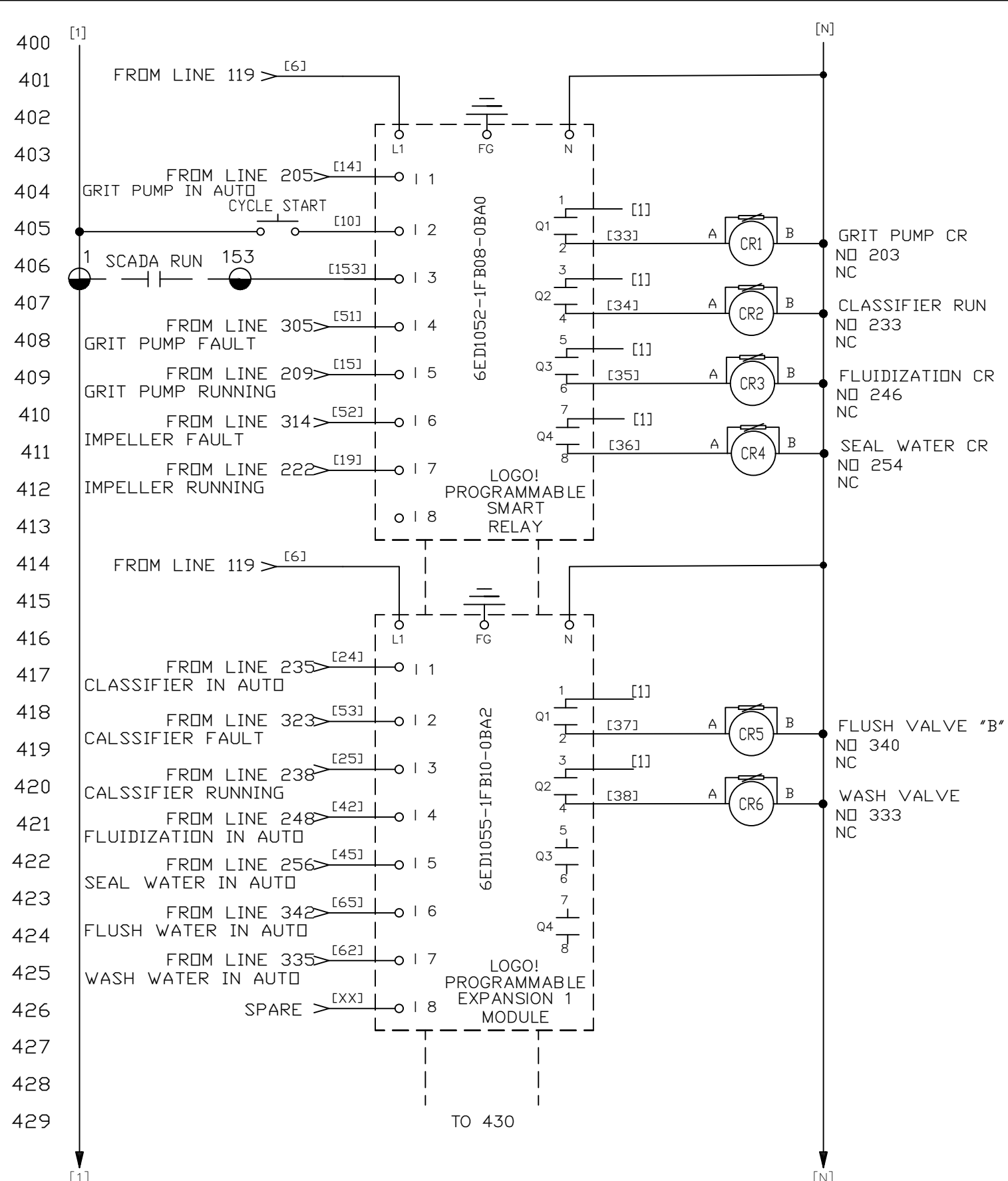
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				SUNRISE, FL	WT77163-2	CH'D BY			KUSTERS WATER PROJECT		
				PROPRIETARY DOCUMENT		SHEET 1 OF 6			DWG.NO.		
B	MFU1 FUSE SIZE	12/8/21	TPN	77163-2 .1			SCALE	REV.			
A	AS-BUILT	8/28/20	TPN	NONE		B					
REV.	ITEM	DATE	BY	This document, the information which it contains, and the know-how depicted are the property of Kusters Corporation and may not be used in any manner detrimental to the Corporation's interest. Reproduction in whole or in part may not be made without written permission from Kusters Corporation; and if made, shall bear or refer to this notice.							



				CLIENT	ORDER No.	DRN. BY	TPN	12/13/19	TITLE		
				SUNRISE, FL	WT77163-2	CH'D BY			KUSTERS WATER PROJECT		
				PROPRIETARY DOCUMENT					CONTROLS GRIT SYSTEM		
B	MFU1 FUSE SIZE	12/8/21	TPN	<small>This document, the information which it contains, and the know-how depicted are the property of Kusters Corporation and may not be used in any manner detrimental to the Corporation's interest. Reproduction in whole or in part may not be made without written permission from Kusters Corporation; and if made, shall bear or refer to this notice.</small>				DWG.NO.		SCALE	REV.
A	AS-BUILT	8/28/20	TPN					77163-2 .2		NONE	B
REV.	ITEM	DATE	BY			SHEET 2 OF 6					



CLIENT				ORDER No.			TITLE	
SUNRISE, FL				WT77163-2			KUSTERS WATER PROJECT	
PROPRIETARY DOCUMENT				DRN. BY TPN 12/13/19			CONTROLS GRIT SYSTEM	
B	MFU1 FUSE SIZE	12/8/21	TPN	CH'D BY			DWG. NO.	
A	AS-BUILT	8/28/20	TPN	SHEET 3 OF 6			77163-2 .3	
REV.	ITEM	DATE	BY	Kw KUSTERS-WATER a division of KUSTERS ZIMA			SCALE	REV.
							NONE	B



REV.	ITEM	DATE	BY
B	MFU1 FUSE SIZE	12/8/21	TPN
A	AS-BUILT	8/28/20	TPN

CLIENT
SUNRISE, FL

ORDER No.
WT77163-2

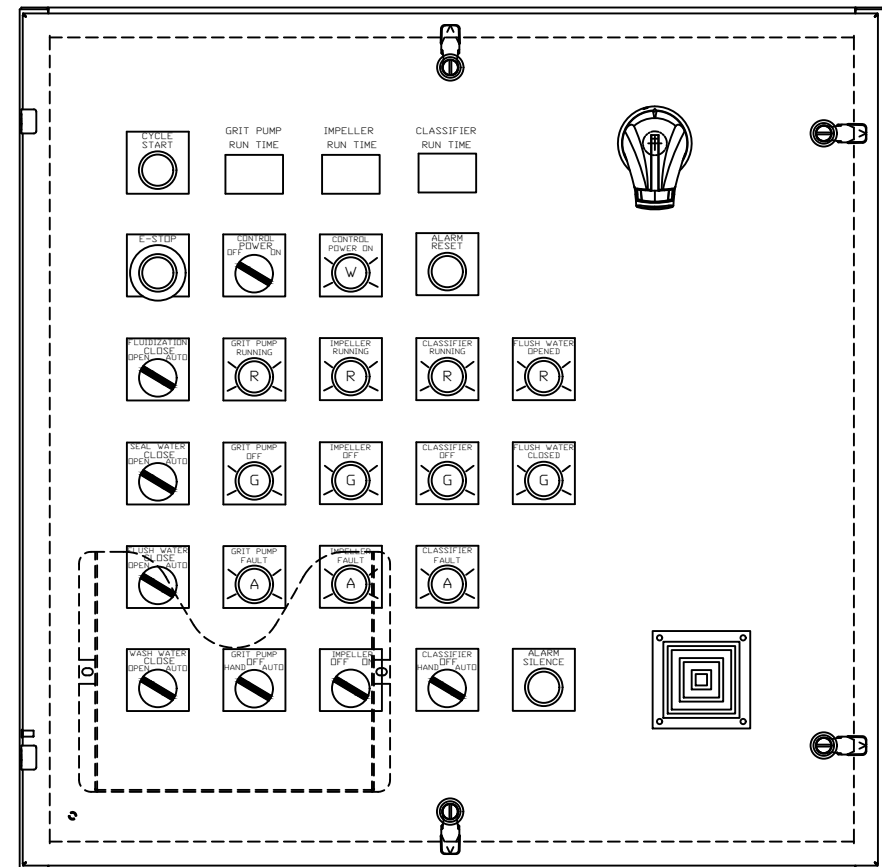
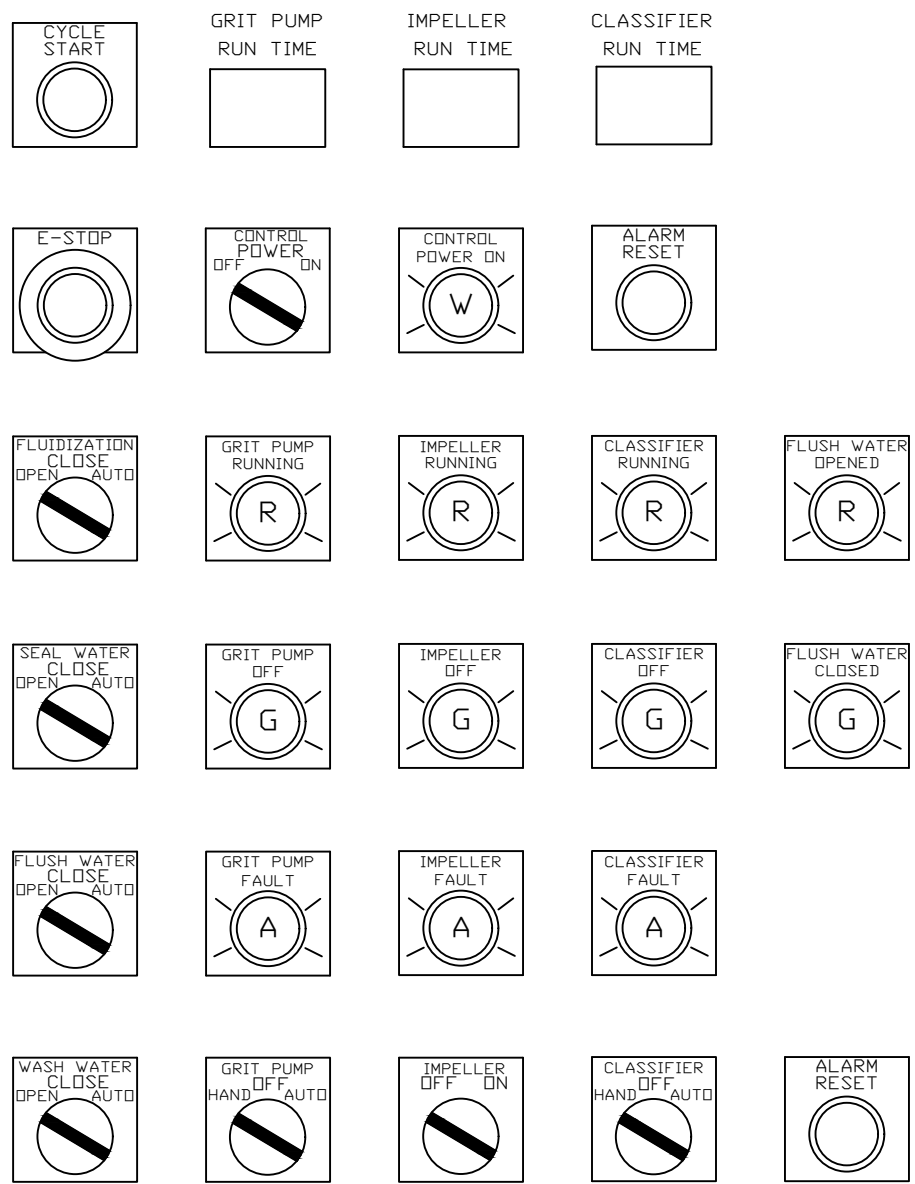
DRN. BY TPN 12/13/19
CH'D BY
SHEET 4 OF 6

TITLE
**KUSTERS WATER PROJECT
CONTROLS GRIT SYSTEM**

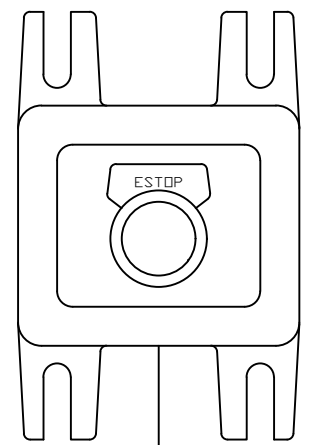
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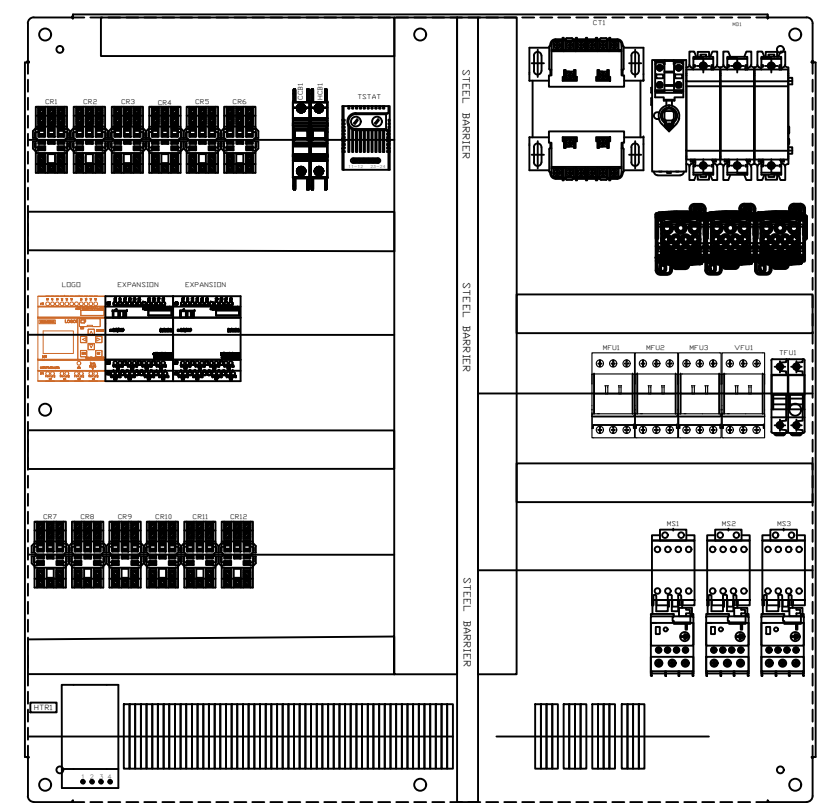
DWG.NO. **77163-2 .4** SCALE NONE REV. **B**



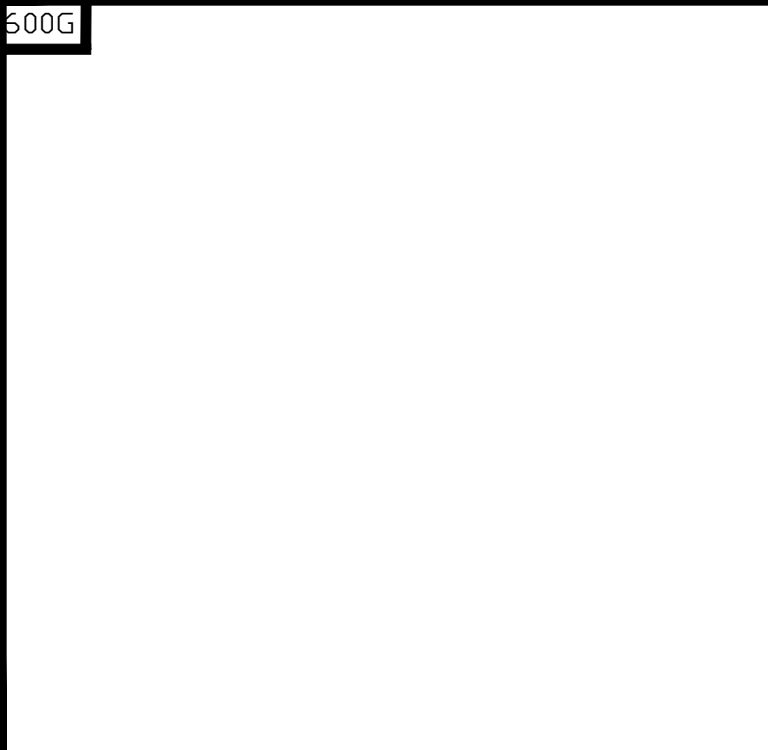
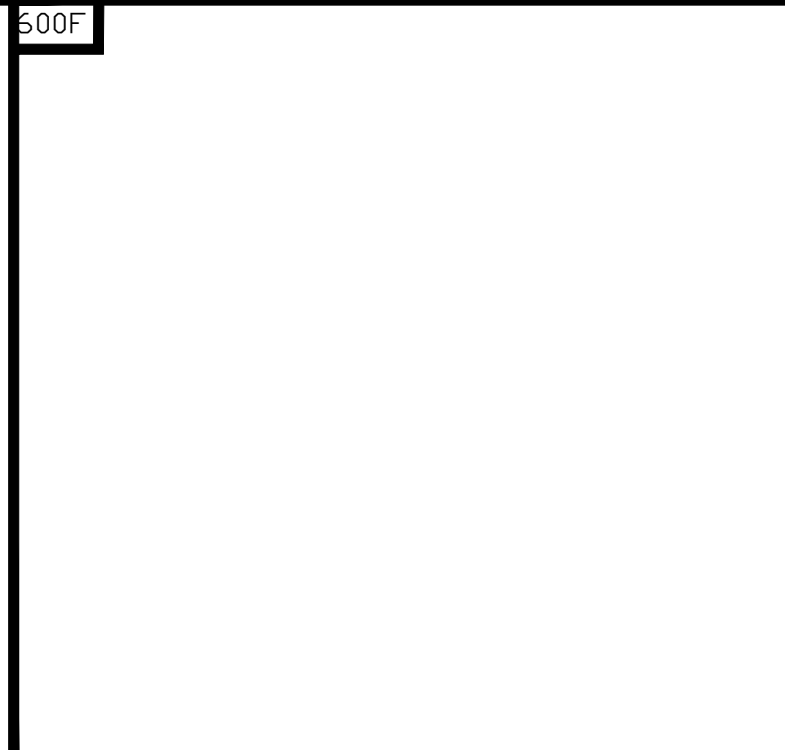
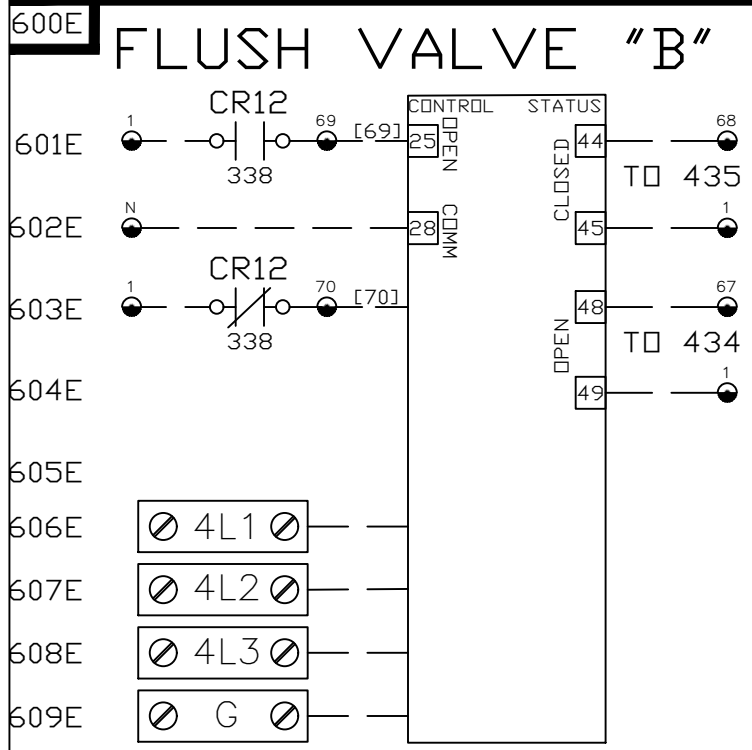
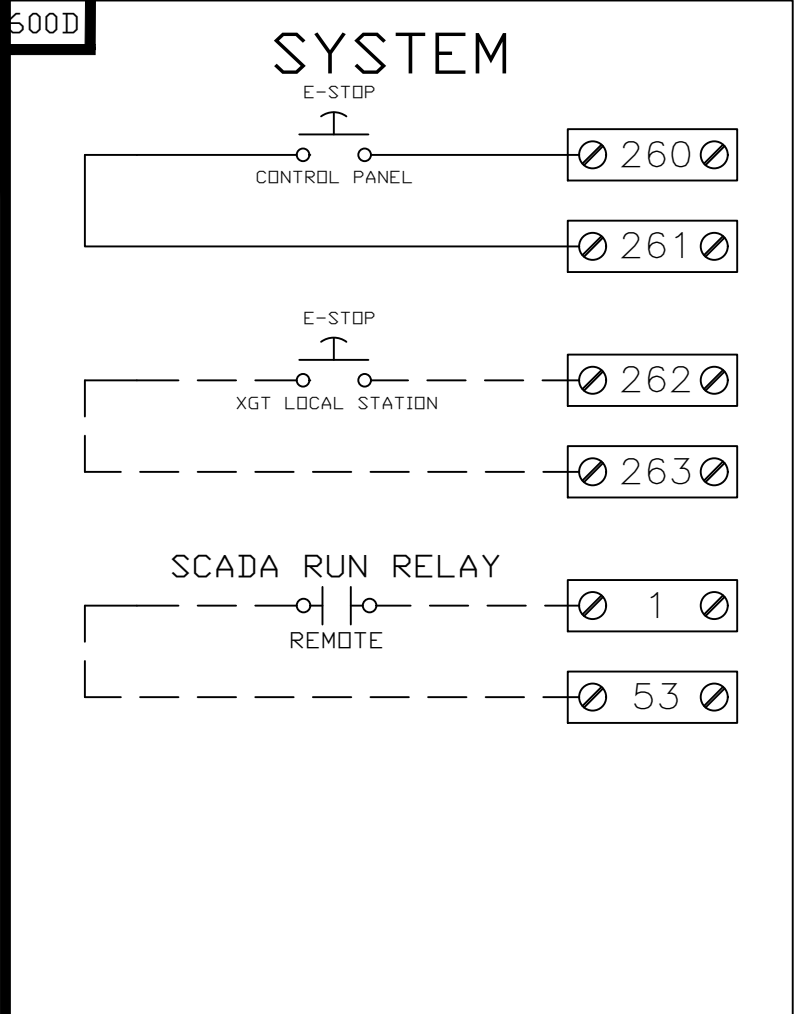
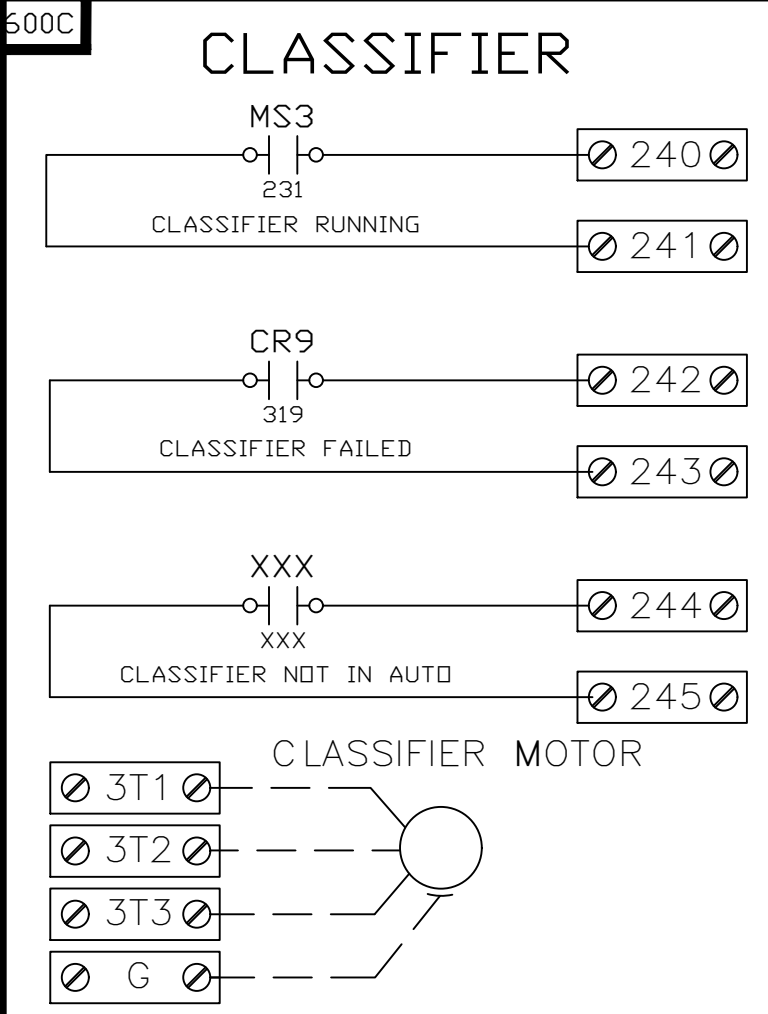
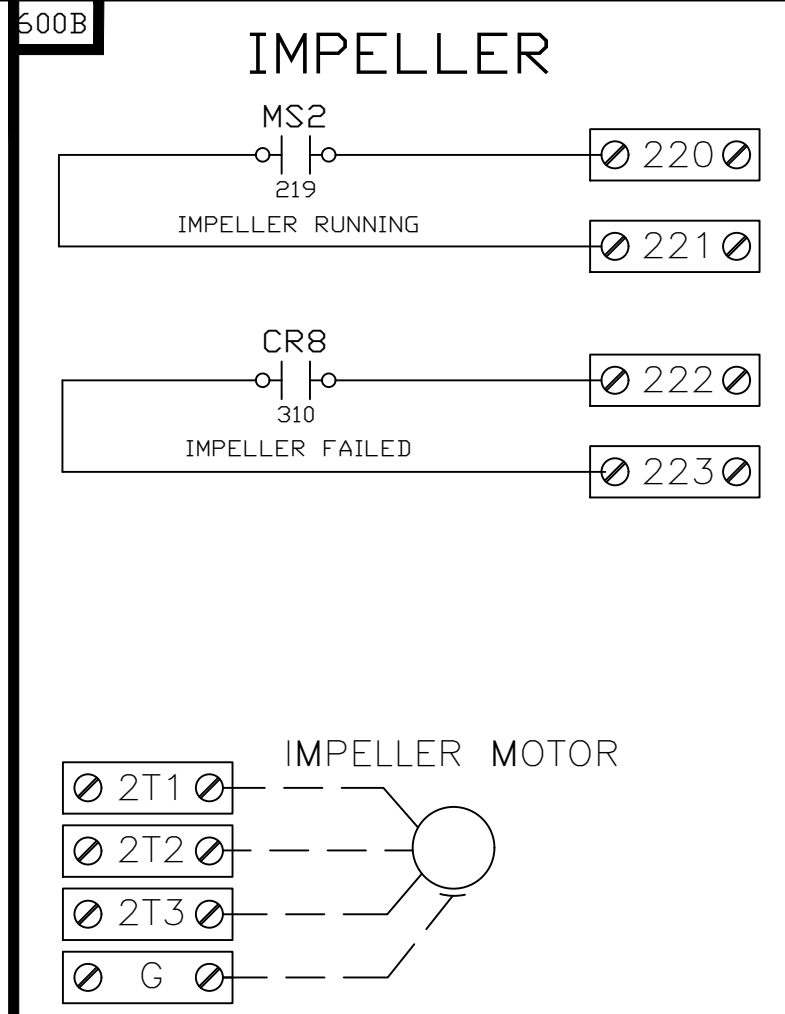
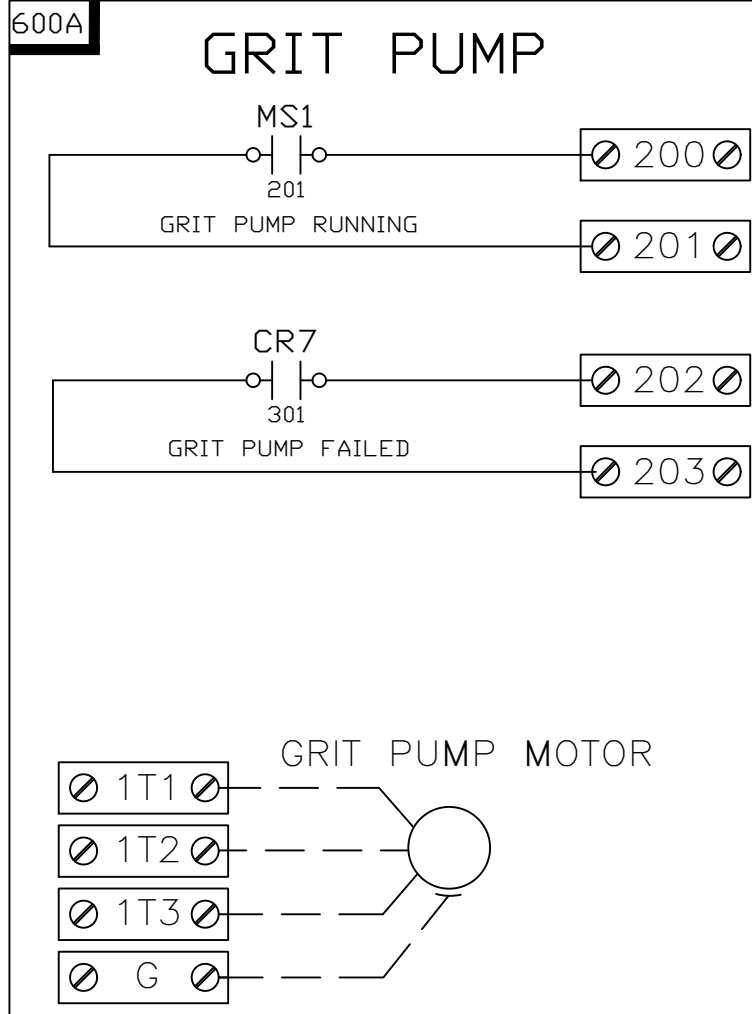
FRONT VIEW
 SIZE 36 X 36 X 12
 NEMA TYPE 4X SS 304 (PAINTED WHITE)
 THIS CONTROL PANEL IS TO BE
 INSTALLED IN A NON-CLASSIFIED
 AREA ONLY.



3/4 INCH NPT CONDUIT ENTRY IN BOTTOM
 NEMA 7



				CLIENT SUNRISE, FL	ORDER No. WT77163-2	DRN. BY TPN	12/13/19	TITLE KUSTERS WATER PROJECT CONTROLS GRIT SYSTEM					
B	MFU1 FUSE SIZE	12/8/21	TPN	PROPRIETARY DOCUMENT				CH'D BY					
A	AS-BUILT	8/28/20	TPN	This document, the information which it contains, and the know-how depicted are the property of Kusters Corporation and may not be used in any manner detrimental to the Corporation's interest. Reproduction in whole or in part may not be made without written permission from Kusters Corporation; and if made, shall bear or refer to this notice.				SHEET		5 OF 6	DWG.NO. 77163-2 .5	SCALE NONE	REV. B
REV.	ITEM	DATE	BY					Kw KUSTERS-WATER a division of KUSTERS ZIMA					



600H NOTES

YELLOW WIRE
 CAUTION: FOREIGN VOLTAGE FROM EXTERNAL SOURCE. MAY BE "HOT" WHEN MAIN POWER IS OFF.

----- FIELD WIRING

				CLIENT SUNRISE, FL	ORDER No. WT77163-2	DRN. BY TPN	12/13/19	TITLE KUSTERS WATER PROJECT CONTROLS GRIT SYSTEM			
B	MFU1 FUSE SIZE	12/8/21	TPN	PROPRIETARY DOCUMENT				CH'D BY			
A	AS-BUILT	8/28/20	TPN	<small>This document, the information which it contains, and the know-how depicted are the property of Kusters Corporation and may not be used in any manner detrimental to the Corporation's interest. Reproduction in whole or in part may not be made without written permission from Kusters Corporation; and if made, shall bear or refer to this notice.</small>				DWG.NO.		SCALE	REV.
REV.	ITEM	DATE	BY					SHEET 6 OF 6		77163-2 .6	



1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323

T: 954.200.7611



June 22, 2023

Ms. Wilhelmina Montero, P.E.
Senior Project Manager
Department of Public Utilities - ECSD
City of Hollywood
1621 N. 14th Avenue
Hollywood, Florida 33022

158421

Subject: Deep Injection Wells No. 3 and No. 4 Pump Station Project
Cardinal's Cost Proposal CP-009 Add Twisted Shielded Pair Cable

Dear Ms. Montero:

Please receive this letter as Brown and Caldwell's recommendation to accept Cardinal's change proposal CP-009 for additional twisted shielded pair signal cable.

We have reviewed the proposal in the amount of \$2,224.18 and find it to be reasonable for the work entailed in the scope of changes communicated to the contractor, which is described as follows:

Contract Drawing E-10-1104 calls for six (6) twisted shield pair cables to run from existing PLC 16 to panel STC-1014 adjacent to Injection Well No. 4. However, seven (7) cable pairs are shown to run from STC-1014 out to instruments and another panel, hence, one cable pair needs to be added from PLC 16 to STC-1014.

Please let me know if you have any questions or comments regarding this matter.

Very truly yours,

Brown and Caldwell

A handwritten signature in blue ink, appearing to read 'Mark Harber'. The signature is fluid and cursive.

Mark Harber, Construction Manager
Sunrise, Florida



May 16, 2023

Mr. Mark Harber
Project Manager
Brown and Caldwell | Hollywood SRWTP
MHarber@Brwncald.com

**Re: City of Hollywood, SRWTP Deep Injection Wells No. 3 and No. 4 Pump Station
Cardinal Job #: 85030, City Project #: 19-9119A
Change Proposal: CP-009-R1 Two Additional TW SH Pair Cable Per RFI-085**

Mr. Harber,

See attached RFI-085 for description of additional work and materials.
This change proposal addresses the additional costs and schedule.

Assumptions:

- Cost estimate includes material changes and all changes that result in additional engineering, administrative and subcontractor or construction work for a complete system delivery.

Cost and Schedule proposal:

1. **Schedule: 2 days.**
2. **Cost:**

Cost Summary by Category

a. Material Total		\$0.00
b. Labor Total		\$0.00
c. Subcontract		\$2,069.00
d. Equipment Total		\$0.00
e. Overhead	10% of line a	\$0.00
f. Overhead	10% of line b	\$0.00
g. Fee	7.5% of line c	\$155.18
h. Fee	10% of line d	\$0.00
i. Profit	0% of a-h	\$0.00
j. Bond Allowance	0%	\$0.00
Total Estimated Cost		\$2,224.18



Attached:

- Cost breakout
 - Subcontractor CO
 - RFI for reference
-

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Scott'.

John Scott

Sr. Project Manager
Cardinal Contractors / Primoris Water & Mechanical
John.scott@prim.com
www.prim.com

CC:

COST ESTMATE SHEET

City of Hollywood
 Deep Injection Wells No. 3 and No. 4 Pump Station
 City Project #: 19-9119A

Cardinal Job No. 85030
 Proposal No. 009

Description: CP-009-R1 Two Additional TW SH Pair Cable Per RFI-085

COST CODE	DESCRIPTION	UNIT	QTY	MATERIALS (Include 6% FSST)		LABOR			SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS		
				(31)		LABOR		LABOR	(11 & 16)		(41)		(20 & 21)		
				UP	TOTAL	HRS/UNIT	MH	RATE	TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
					\$0.00		38.0		\$0.00		\$2,069.00		\$0.00		\$2,069.00
	Labor Burden	LS	1					0.00	\$0.00						\$0.00
	Fuel/EOE/Surtax	LS	1	0.01	\$0.00										\$0.00
	Sales Tax	LS	1	0.06	\$0.00							0	\$0.00		\$0.00
	SUBTOTALS				\$0.00		38		\$0.00		\$2,069.00		\$0.00		\$2,069.00
	SCOPE OF WORK:														
	Project Engineer	MH	0				0.0	68.00	\$0.00						\$0.00
	Field Engineer	MH	0				5.0	60.50	\$0.00						\$0.00
	Construction Manager	MH	0				0.0	102.00	\$0.00						\$0.00
	Superintendent	MH	0				2.0	85.00	\$0.00						\$0.00
	QA/QC Manager	MH	0				3.0	78.00	\$0.00						\$0.00
	Onsite Safety Coordinator	MH	0				0.0	64.00	\$0.00						\$0.00
	Surveyor	MH	0				0.0	87.47	\$0.00						\$0.00
	<u>Subcontractor</u>														
	Electrician (materials and work)	EA	0								\$2,069.00				\$2,069.00
	Controls Sub (Instruments, calib., PLC integration)	EA	0								\$0.00				\$0.00
	Controls surtax	EA	0								\$0.00				\$0.00



1344 S. Killian Dr.
Lake Park, FL 33403
561-882-0401 Fax 561-882-0555

TO: Cardinal Contractors
13794 NW 4th Street
Sunrise, Fl. 33325

DATE: 4/20/2023 NO: 4
REVISED:
JOB: Hollywood Deep Injection Well #3 & #4
JOB NO: 22001

ATTN: John Scott

We have received and reviewed your proposed change request **RFI - 085**
Pertaining to Add (2) TW Sh Pair from PLC-16 to STC-1014

We propose to furnish all material, labor and supervision for the execution of the electrical work covered by this change for the lump sum of: **\$2,069.00**

In order to incorporate this change, we estimate that we will require additional time for completion and have based our proposal upon receiving 2 calendar days extension.

This proposal is firm for acceptance within 30 days. We cannot proceed with the work covered by this proposed change until we receive written approval, which must be within the above time limit to prevent additional costs.

Exceptions taken are:

This proposal is based solely on the usual cost elements such as labor, material and normal markups and does not include any amount for additional changes in the sequence of work, delays, disruption, rescheduling, extended overhead, overtime, acceleration and/or impact costs and the right is expressly reserved to make claim for any and all of these and related items of cost prior to any final settlement of this contract. The issuance of a change order is acknowledgement and acceptance of all terms and conditions of this written proposal and may not be altered in any way unless agreed to in writing.

LOVELAND ELECTRIC, INC.

Randy Loveland
Project Manager

LOVELAND ELECTRIC II, LLC.

Change Order Estimate Sheet

		<u>LABOR</u>		
1	ESTIMATED MAN HOURS	<u>12.54</u>	HRS X RATE	<u>\$68.29</u>
				\$856.36
2	SUPERVISION			\$214.09
3	PROJECT MANAGER			\$59.94
4	TOTAL LABOR			\$1,130.39
		<u>MATERIAL</u>		
5	ESTIMATED MATERIAL		\$568.96	
6	MATERIAL QUOTES		\$0.00	
7	SUBTOTAL MATERIAL		\$568.96	
8	FREIGHT / DELIVERY		\$11.38	
9	SALES TAX		\$40.62	
10	TOTAL MATERIAL		\$620.96	
		<u>EXPENSES</u>		
11	SUBCONTRACTOR COST		\$0.00	
12	SMALL TOOLS		\$28.26	
13	RENTED EQUIPMENT		\$0.00	
14	JOB EXPENSES		\$53.39	
15	INSURANCE		\$27.50	
16	BOND		\$20.47	
17	TOTAL EXPENSES		\$129.61	
		<u>OVERHEAD & PROFIT</u>		
18	OVERHEAD/PROFIT		10.00%	\$188.10
19	ESTIMATE			\$2,069.00

	Description	Quantity	Total Material	Total Hours
1	#16- 1P TWISTED CABLE	1,144	560.56	10.76
2	WIRE MARKER	12	8.40	0.20
3	#16 WIRE CONTROL TERM	12	0.00	1.58
	Totals	1,168	568.96	12.54

Cardinal Contractors, Inc.

REQUEST FOR INFORMATION
No. 085-Rev.1

Title: RFI-085-Rev.1 Tw Sh Pair E-10-1104

Date: 4/20/2023

Project: Injection Well No. 3 & 4 Pump Station

Job No: City - 19-9119A
Prim - 85030

Request By: Primoris / Cardinal Contractors, Inc. (CCI)

To: Attn: Mr. Mark Harber
Brown and Caldwell (B&C)
1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323

Completed:
Required: 4/27/2023

REQUEST:

Please see attached original RFI-085 for reference. This revised RFI includes a cost breakdown from Loveland Electric in regards to adding (2) TW Sh Pair from PLC-16 to STC-1014. Drawing E-10-1104 showed (6) 2/C #16 TW SH going from PLC-16 to STC-1014. Per the EOR's response to RFI-085, there should be a total of (8).

Please review this CO from Loveland Electric and confirm acceptance. Once agreed, we will submit a corresponding Change Order.

ANSWER:

The need for additional cabling and associated cost is acknowledged. Provide a complete cost proposal to the engineer. Remember to include the breakdown of how the labor and expense costs are calculated.

Submitted By: Alonso Chigne Valerga

Response by: Mark Harber

Signed: Alonso Chigne Valerga

Signed: Mark Harber

Brown and Caldwell 4/25/2023

Original RFI-085 for reference.

Deep Injection Wells No. 3 and No. 4 Pump Station (19-9119A). (CCI 85030)

RFI Submittal Transmittal

Submittal Description:

RFI-085 Tw Sh Pair E-10-1104

Submittal No: RFI-085

Spec Section:

		Routing	Sent	Received
City:	Hollywood			
Project:	Injection Well No. 3 & 4 Pump Station	CM / Engineer		
		Engineer / CM		
Contractor:	Cardinal Contractors (Primoris)	CM / Contractor		

We are sending you

Attached

RFI for review and comment

Under separate cover via _____

Product data for information only

Remarks: _____

Item	Copies	Date	Section	Description	Review action	Reviewer initials	Review Comments attached
RFI-085		9/26/22		RFI-085 Tw Sh Pair E-10-1104			

aNote: NET = No exceptions taken; MCN = Make corrections noted; A&R = Amend and resubmit; R = Rejected

Attach additional sheets if necessary.

Contractor

	RFI

Signature

Alonso Chigne Valerga

Alonso Chigne Valerga

Cardinal Contractors, Inc.**REQUEST FOR INFORMATION
No. 085****Title:** RFI-085 Tw Sh Pair E-10-1104**Date:** 9/26/2022**Project:** Injection Well No. 3 & 4 Pump Station**Job No:** City - 19-9119A
Prim - 85030**Request By:** Primoris / Cardinal Contractors, Inc. (CCI)**To:** Attn: Mr. Mark Harber
Brown and Caldwell (B&C)
1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323**Completed:**
Required: 10/3/2022

REQUEST:

Please see attached Drawing E-10-1104 for reference. Drawing E-10-1104 shows (6) 2/C #16 TW SH going from PLC-16 to STC-1014. The drawing then shows a total of (7) 2/C Tw Sh going out of STC-1014, (2) to MOV-1014, (1) to each FIT-1014 and PIT-1014, (3) to STC-1013. There are then a total of (4) 2/C #16 TW Sh going out of STC-1013, (2) to MOV-1013, (1) to each FIT-1013 and PIT-1013. Please advise on the discrepancy of the wires going out of PLC-16 and the amount needed for the devices.

ANSWER:**BC Response to RFI-085:**

There should be a total of (8)-2/C#16 shielded in 2"C from Signal Terminal Cabinet STC-1014 to PLC-16.

Submitted By: Alonso Chigne Valerga**Signed:** *Alonso Chigne Valerga*

GENERAL NOTES

1. ALL EXPOSED CONDUIT INSTALLATION SHALL BE PVC-COATED RGS WITH SS SUPPORTS AND HARDWARE.
2. MOUNT TERMINAL CABINET IN SS UNISTRUTS.

KEY NOTES

1. DUCTBANK TO INJECTION WELL NO. 4 PANEL PP-IW 3/4 (SEE E-10-1501).
2. DUCTBANK DIRECT BURIED, USE PVC SCH. 80 CONDUIT, 24" DEEP TRENCH WITH IDENTIFICATION TAPE MARKER (FOR TEMPORARY INSTALLATION).

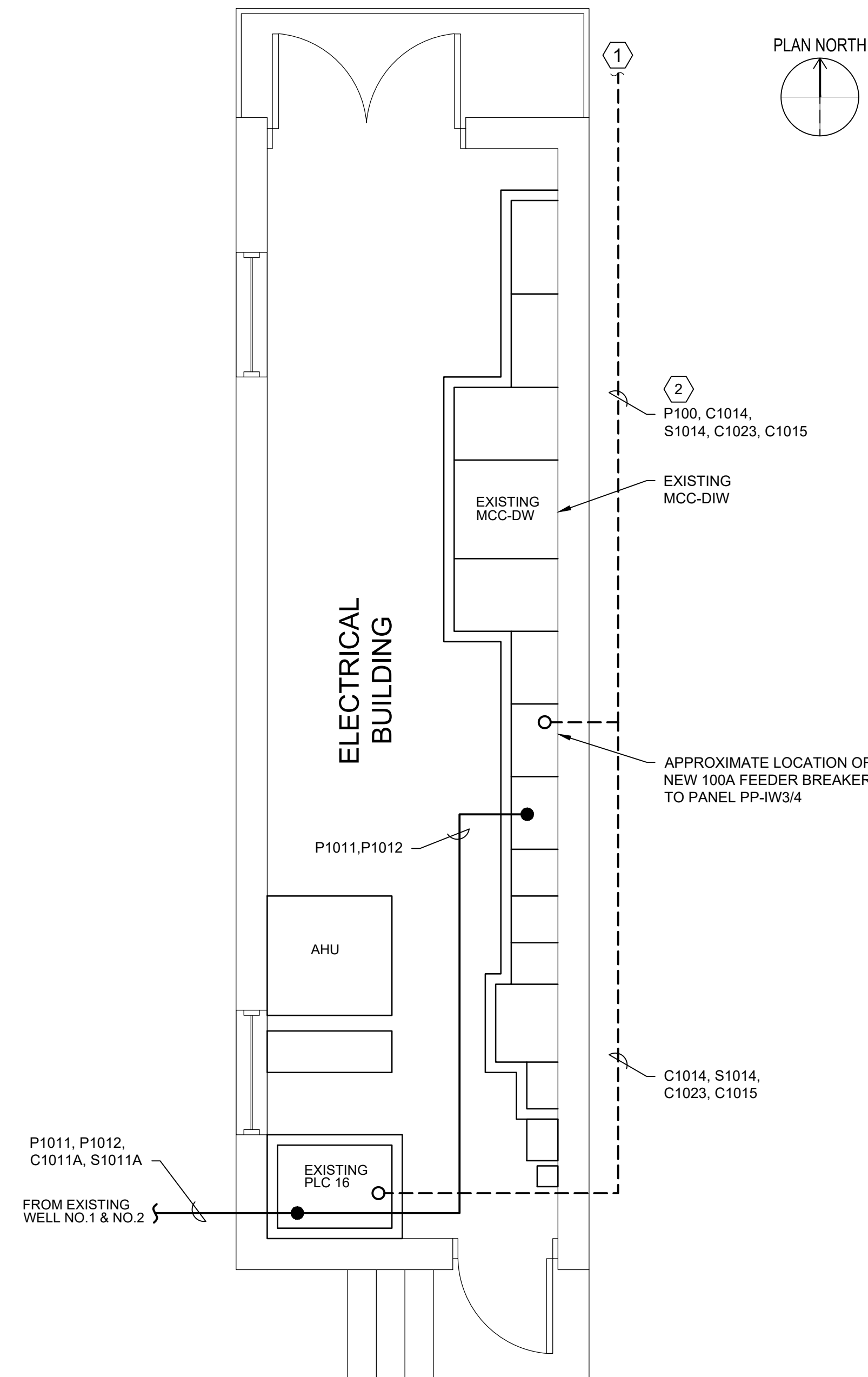
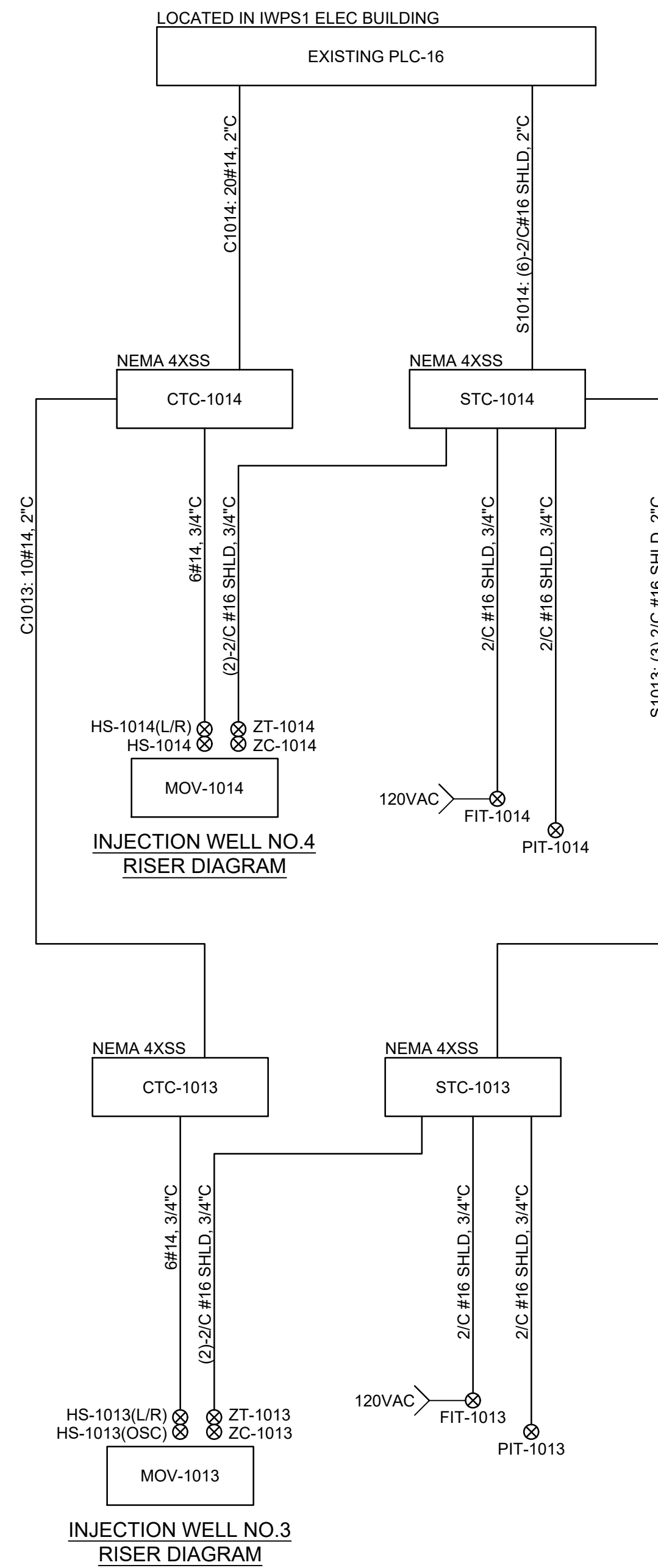


CITY OF HOLLYWOOD PUBLIC UTILITIES

2800 HOLLYWOOD BOULEVARD,
HOLLYWOOD, FLORIDA 33020-4807
954-967-4357
hollywoodfl.org



Environmental Engineering and Consulting
1881 Southwest Corporate Parkway, Suite 400, Sunrise, Florida 33325 (954)333-1911
Florida Board of Professional Engineers Certificate of Authorization No. 0000202



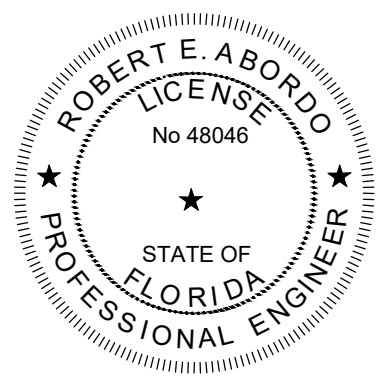
ELECTRICAL PLAN
SCALE: NTS

CONTRACT - 19-9119A
INJECTION WELL NO. 3 AND NO. 4 PUMP STATION
HOLLYWOOD FLORIDA PUBLIC UTILITIES
2800 HOLLYWOOD BOULEVARD, HOLLYWOOD, FLORIDA 33020-4807
EXISTING INJECTION WELL PUMP STATION -
ELECTRICAL BUILDING - ELECTRICAL PLAN (PHASE 1)

DRAWING ISSUED

REVISION No.	DESCRIPTION	DATE	BY
A			
B			
C			
D			

CONFORMED - FOR CONSTRUCTION
PROJ No: 155007
DESIGNED: RA CHECKED: BD
DRAWN: JS FINAL CHECK: RA



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBERT E. ABORDO ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
LINE IS 2 INCHES
AT FULL SIZE

DATE: 1/28/2022 SCALE: AS NOTED
SHEET: E-10-1104

1580 Sawgrass Corporate Parkway,
Suite 400
Sunrise, FL 33323

T: 954.200.7234
F: 954.200.7612

June 13, 2023



Wilhelmina Montero, P.E.
City of Hollywood
P.O. Box 229045
Hollywood, FL 33022

158421

Subject: City of Hollywood Deep Injection Wells No.3 and No.4 Pump Station
Change Proposal: CP-011-R1 42-inch IW SEC Pump Station Isolation Option

Dear Ms. Montero:

The purpose of this letter is to address the Primoris (PSC) Change Proposal 011 Revision 1 (CP-011-R1) 42-inch IW SEC Pump Station Isolation Option, received May 24th, 2023 (Attachment A). In the change proposal, PSC is proposing to install a 42-inch cap to stop the flow from being discharged into Injection Well No.2; and a sleeve to connect to the proposed ductile iron piping as shown in the contract drawings. The cap and sleeve as proposed in CP-011-R1 is in response to the suggestion that Brown and Caldwell provided to the Contractor in-lieu of the line stop originally proposed by PSC. This line stop would have entailed a greater cost.

During the design phase, the intent was to divert flow to the ocean outfall while the new 42-inch pipe system was being installed as shown in the contract documents. However, the issues surrounding Injection Well No.2 prompted the City to discharge via the ocean outfall, which left the City with a reduced nutrient allocation for the remainder of the calendar year. Additionally, the current schedule of the Contractor shows this piping system to be installed starting in the month of June 2023, with an approximate duration of 2 months. This is not feasible at this time since the City needs to reserve the remaining nutrient allocation.

Brown and Caldwell (BC) has reviewed this change order and recommends approval. Attachment A show the labor, equipment, and materials to be used for such installation.

If you have any questions about this change order, please contact me at 954.200.7234.

Very truly yours,
Brown and Caldwell

A handwritten signature in blue ink, appearing to read 'Diego Herrera'. The signature is written over a blue ink stamp that reads 'Diego Herrera, P.E. Sunrise Office'.

Diego Herrera, P.E.
Sunrise Office

cc: Celia Earle, Ph.D., BCEEM, Brown and Caldwell
Leara Guzman, E.I., Brown and Caldwell
Mark Harber, Brown and Caldwell

Attachments:

Attachment A -CP-011-R1 42-inch IW SEC Pump Station Isolation Option



May 24, 2023

Mr. Mark Harber
Project Manager
Brown and Caldwell | Hollywood SRWTP
MHarber@Brwncald.com

**Re: City of Hollywood, SRWTP Deep Injection Wells No. 3 and No. 4 Pump Station
Cardinal Job #: 85030, City Project #: 19-9119A
Change Proposal: CP-011-R1 42-in IW SEC pump station isolation options - cap**

Mr. Harber,

As discussed the 42-inch SEC requires a shutdown of the existing pump station to isolate a section for construction (no isolation valve available). CCI proposed a line stop instead of the long-term pump station shutdown as an alternative to the plant to avoid long term costs and issues to operations. B&C proposed a similar alternative on 5/18/23 to cap the pipe for the activity and minimize the pump station down time.

This proposal addresses the costs associated with the potentially revised plan.

Assumptions:

- This change proposal assumes restraint is existing pipe is adequate for capping isolation and no additional restraint to thrust blocking is required.
- This change proposal does not contain costs for additional exploratory excavation to check all restraints.

Cost and Schedule proposal:

1. **Schedule: 1 day per workday delay starting 6/5/23.**
2. **Cost:**

Cost Summary by Category

a. Material Total		\$73,103.82
b. Labor Total		\$8,029.34
c. Subcontract		\$0.00
d. Equipment Total		\$1,440.00
e. Overhead	10% of line a	\$7,310.38
f. Overhead	10% of line b	\$802.93
g. Fee	7.5% of line c	\$0.00
h. Fee	10% of line d	\$144.00
i. Profit	0% of a-h	\$0.00
j. Bond Allowance	0%	\$0.00
Total Estimated Cost		\$90,830.48



Attached:

- Cost breakout
 - Pipe material cost
 - Email
-

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Scott'.

John Scott

Sr. Project Manager
Cardinal Contractors / Primoris Water & Mechanical
John.scott@prim.com
www.prim.com

CC:

COST ESTIMATE SHEET

City of Hollywood
 Deep Injection Wells No. 3 and No. 4 Pump Station
 City Project #: 19-9119A

Cardinal Job No. 85030
 Proposal No. 011-R1

Description: CP-011-R1 42-in IW SEC pump station isolation options - cap

COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS (Include 6% FSST)		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS	
				UP	TOTAL	UP	TOTAL	HRS/UNIT	MH	RATE	(11 & 16) TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
				(34)	(31)							(41)	(20 & 21)				
TOTALS ----->					\$288		\$72,815.82		54.0		\$8,029.34		\$0.00		\$1,440.00		\$82,573.16
	Labor Burden	LS	1							0.00	\$0.00						\$0.00
	Fuel/EOE/Surtax	LS	1	0.20	\$288	0	\$0.00										\$288.00
	Sales Tax	LS	1		\$0	0	\$0.00							0	\$0.00		\$0.00
	SUBTOTALS				\$0		\$72,815.82		54		\$8,029.34		\$0.00		\$1,440.00		\$82,285.16
	SCOPE OF WORK:																
	Project Engineer	MH	0						0.0	68.00	\$0.00						\$0.00
	Field Engineer	MH	0						0.0	60.50	\$0.00						\$0.00
	Construction Manager	MH	1						2.0	102.00	\$204.00						\$204.00
	Superintendent	MH	1						10.0	85.00	\$850.00						\$850.00
	QA/QC Manager	MH	0						0.0	78.00	\$0.00						\$0.00
	Onsite Safety Coordinator	MH	0						0.0	64.00	\$0.00						\$0.00
	Surveyor	MH	1						2.0	87.47	\$174.94						\$174.94
	Additional Labor and equipment																
	Labor																
	Operator / Foreman	MH	0						0.0	80.47	\$0.00						\$0.00
	Equipment Operator	MH	1						20.0	80.47	\$1,609.40						\$1,609.40
	Laborer Skilled General	MH	0						0.0	51.91	\$0.00						\$0.00
	Carpenter	MH	0						0.0	51.91	\$0.00						\$0.00
	Pipe Layer	MH	5						20.0	51.91	\$5,191.00						\$5,191.00
	Equipment																
	Co. PSC rental.																
	BACKHOE. CAT,420F	Day	0											210.00	\$0.00		\$0.00
	LOADER. CAT,930K	Day	2											270.00	\$540.00		\$540.00
	EXCAVATOR. CAT,304	Day	0											150.00	\$0.00		\$0.00
	MINI EXCAVATOR. CAT,308	Day	0											150.00	\$0.00		\$0.00
	SKID STEER. CAT,299E	Day	0											156.00	\$0.00		\$0.00
	TEL. FORK LIFT. JLG,1055	Day	0											312.00	\$0.00		\$0.00
	UTV Kawasaki. KAWASAKI,	Day	0											36.00	\$0.00		\$0.00
	WELDING MACHINE. ,	Day	0											110.00	\$0.00		\$0.00
	WELDING TRAILER. ,	Day	0											50.00	\$0.00		\$0.00
	EXCAVATOR. CAT,315	Day	0											330.00	\$0.00		\$0.00
	AIR COMPRESSOR. DOOSAN,P185CFM	Day	0											40.00	\$0.00		\$0.00
	Excavator, CAT, 329E	Day	2											450.00	\$900.00		\$900.00
	Excavator, CAT 323F	Day	0											414.00	\$0.00		\$0.00
	Outside Rental																
	Materials/Equipment																
	Pipe materials (incl tax and freight)	Lot	1		\$0		\$72,815.82		0.0		\$0.00				\$0.00		\$72,815.82

John Scott

From: Diego Herrera <Dherrera@BrwnCald.com>
Sent: Thursday, May 18, 2023 12:55 PM
To: John Scott
Cc: Mark Harber; Wilhelmina Montero; Leara Guzman
Subject: Line stop on SEC line leading to DIW-2 - Alternative

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you have verified the sender and know the content is safe! If this message is suspicious, please use the **Report Phish** button to notify IT.

Jo John,

As discussed, could you please prepare an alternative cost for the procurement of a plug/cap to be added to the existing 42-inch SEC line heading to DIW-2? We are in discussions with the city to see if this would cost less than a line-stop.

The cap/plug does not need to be AIS compliant as it will be removed later for you to tie-in your needed piping system.

Thank you,

Diego M. Herrera, P.E.
Project Manager
Brown and Caldwell | Sunrise, Florida
DHerrera@brwncald.com
T 954-200-7234 | C 954-298-0061



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Note! This email originated from outside our organization. Be cautious when opening Links and Attachments that you were not expecting.

Deliver To: . From: Gary Morgan Comments:

FEL-POMPANO BEACH, FL WW #125

Price Quotation

Phone: 954-973-8100

Fax: 954-917-3134

Bid No: B534185
Bid Date: 05/19/23
Quoted By: GM

Cust Phone: 972-538-5300
Terms: NET 10TH PROX

Customer: CARDINAL CONTRACTORS INC
1760 S STEMMONS FREEWAY
SUITE 300
HOLLYWOOD PS 3 & 4 DEEP INJ W
LEWISVILLE, TX 75067

Ship To: CARDINAL CONTRACTORS INC
1621 N 14TH AVE
HOLLYWOOD PS 3 & 4 DEEP INJ W
HOLLYWOOD, FL 33019

Cust PO#: 42" MJ TIE-IN

Job Name: HOLLYWOOD PS 3 & 4 DEEP I

Item	Description	Quantity	Net Price	UM	Total
	TIE-IN CHANGE ALL MATERIAL PER AIS EXCEPT TEMP CAP 8-10 WKS LEAD TIME IMPORT LEAD TIME BETTER UPON REQUEST				
SP-DMJLSP4LA42	DOM 42 MJ C153 P-401 LONG SLV L/A	1	23606.000	EA	23606.00
MJSCAPP4LA42	42 MJ SLD CAP P401 LINED	1	10899.000	EA	10899.00
E1142DEC	42 MEGALUG EBAASEAL ACCY PKG F/ DI	3	3400.000	EA	10200.00
SP-42DIPFABSPPOOL	42 DIP FAB SPL - DESCRIPTION BELOW 42X12'0 PE X PE P401/TC DIP	1	23942.000	EA	23942.00

Net Total: \$68647.00
Tax: \$4168.82
Freight: \$0.00
Total: \$72815.82

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE/VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.
COVID-19 ORDER: ANY REFERENCE TO OR INCORPORATION OF EXECUTIVE ORDER 14042 AND/OR THE EO-IMPLEMENTING FEDERAL CLAUSES (FAR 52.223-99 AND/OR DFARS 252.223-7999) IS EXPRESSLY REJECTED BY SELLER AND SHALL NOT APPLY AS SELLER IS A MATERIALS SUPPLIER AND THEREFORE EXEMPT UNDER THE EXECUTIVE ORDER.



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1208&on=70119>

1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323

T: 954.200.7611



June 27, 2023

Ms. Wilhelmina Montero, P.E.
Senior Project Manager
Department of Public Utilities - ECSD
City of Hollywood
1621 N. 14th Avenue
Hollywood, Florida 33022

158421

Subject: Deep Injection Wells No. 3 and No. 4 Pump Station Project
Cardinal's Cost Proposal CP-012 BDA (Bi-directional Amplifier) Test

Dear Ms. Montero:

Please receive this letter as Brown and Caldwell's recommendation to accept Cardinal's change proposal CP-012 in the amount of \$2,730.65 to perform a preliminary grid test to determine if there is a need for bidirectional amplifiers for the fire alarm system.

This need for this test was expressed by the City of Hollywood's Building Department and it will check for communication dead spots that could negatively affect the fire alarm system's ability to communicate with first responders.

Please let me know if you have any questions or comments regarding this matter.

Very truly yours,

Brown and Caldwell

A handwritten signature in blue ink that reads 'Mark Harber'.

Mark Harber, Construction Manager
Sunrise, Florida



May 22, 2023

Mr. Mark Harber
Project Manager
Brown and Caldwell | Hollywood SRWTP
MHarber@Brwncald.com

**Re: City of Hollywood, SRWTP Deep Injection Wells No. 3 and No. 4 Pump Station
Cardinal Job #: 85030, City Project #: 19-9119A
Change Proposal: CP-012. BDA Fire system test. RFI-167**

Mr. Harber,

See attached RFI-167 for description of additional work requested.
This change proposal addresses the costs and schedule for the additional BDA testing.

Assumptions:

- Cost estimate includes material changes and all changes that result in additional engineering, administrative and subcontractor or construction work for a complete system delivery.

Cost and Schedule proposal:

1. **Schedule: 2 days.**

2. **Cost:**

Cost Summary by Category

a. Material Total		\$0.00
b. Labor Total		\$0.00
c. Subcontract		\$2,540.14
d. Equipment Total		\$0.00
e. Overhead	10% of line a	\$0.00
f. Overhead	10% of line b	\$0.00
g. Fee	7.5% of line c	\$190.51
h. Fee	10% of line d	\$0.00
i. Profit	0% of a-h	\$0.00
j. Bond Allowance	0%	\$0.00
Total Estimated Cost		\$2,730.65



Attached:

- Cost breakout
 - Subcontractor CO
 - RFI for reference
-

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Scott', with a stylized flourish at the end.

John Scott

Sr. Project Manager
Cardinal Contractors / Primoris Water & Mechanical
John.scott@prim.com
www.prim.com

CC:

COST ESTMATE SHEET

City of Hollywood
 Deep Injection Wells No. 3 and No. 4 Pump Station
 City Project #: 19-9119A

Cardinal Job No. 85030
 Proposal No. 012

Description: CP-012. BDA Fire system test. RFI-167

COST CODE	DESCRIPTION	UNIT	QTY	MATERIALS (Include 6% FSST)		LABOR			SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS		
				(31)		LABOR		LABOR	(11 & 16)	(41)		(20 & 21)			
				UP	TOTAL	HRS/UNIT	MH	RATE	TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
	TOTALS ----->				\$0.00		0.0		\$0.00		\$2,540.14		\$0.00		\$2,540.14
	Labor Burden	LS	1					0.00	\$0.00						\$0.00
	Fuel/EOE/Surtax	LS	1	0.01	\$0.00										\$0.00
	Sales Tax	LS	1	0.06	\$0.00							0	\$0.00		\$0.00
	SUBTOTALS				\$0.00		0		\$0.00		\$2,540.14		\$0.00		\$2,540.14
	SCOPE OF WORK:														
	Project Engineer	MH	0				0.0	68.00	\$0.00						\$0.00
	Field Engineer	MH	0				0.0	60.50	\$0.00						\$0.00
	Construction Manager	MH	0				0.0	102.00	\$0.00						\$0.00
	Superintendent	MH	0				0.0	85.00	\$0.00						\$0.00
	QA/QC Manager	MH	0				0.0	78.00	\$0.00						\$0.00
	Onsite Safety Coordinator	MH	0				0.0	64.00	\$0.00						\$0.00
	Surveyor	MH	0				0.0	87.47	\$0.00						\$0.00
	<u>Subcontractor</u>														
	Electrical Subcontractor	EA	1								\$2,540.14				\$2,540.14
	Controls Sub (Instruments, calib., PLC integration)	EA	0								\$0.00				\$0.00
	Controls surtax	EA	0								\$0.00				\$0.00



1344 S. Killian Dr.
Lake Park, FL 33403
561-882-0401 Fax 561-882-0555

TO: Cardinal Contractors
13794 NW 4th Street
Sunrise, Fl. 33325

DATE: 5/19/2023 NO: 5
REVISED: 6/23/2023
JOB: Hollywood Deep Injection Well #3 & #4
JOB NO: 22001

ATTN: John Scott

We have received and reviewed your proposed change request RFI 167
Pertaining to Test for BDA System

We propose to furnish all material, labor and supervision for the execution of the electrical work covered
by this change for the lump sum of: \$2,540.00

In order to incorporate this change, we estimate that we will require additional time for completion and
have based our proposal upon receiving 0 calendar days extension.

**This proposal is firm for acceptance within 30 days. We cannot proceed with the work
covered by this proposed change until we receive written approval, which must be within the above
time limit to prevent additional costs.**

Exceptions taken are:

This proposal is based solely on the usual cost elements such as labor, material and normal markups
and does not include any amount for additional changes in the sequence of work, delays, disruption,
rescheduling, extended overhead, overtime, acceleration and/or impact costs and the right is expressly
reserved to make claim for any and all of these and related items of cost prior to any final settlement of
this contract. The issuance of a change order is acknowledgement and acceptance of all terms and
conditions of this written proposal and may not be altered in any way unless agreed to in writing.

LOVELAND ELECTRIC, INC.

Randy Loveland
Project Manager

LOVELAND ELECTRIC II, LLC.

Change Order Estimate Sheet

<u>LABOR</u>			
1 ESTIMATED MAN HOURS	<u>2</u>	HRS X RATE	<u>\$68.29</u>
			\$136.58
2 SUPERVISION		(12.26*.2) * (68.29*1.25)	\$34.15
3 PROJECT MANAGER		(12.26*.05) * (68.29*1.4)	\$9.56
4 TOTAL LABOR			\$180.29
<u>MATERIAL</u>			
5 ESTIMATED MATERIAL		\$2,000.00	
6 MATERIAL QUOTES		\$0.00	
7 SUBTOTAL MATERIAL		\$2,000.00	
8 FREIGHT / DELIVERY		\$0.00	
9 SALES TAX		\$0.00	
10 TOTAL MATERIAL		\$2,000.00	
<u>EXPENSES</u>			
11 SUBCONTRACTOR COST			\$0.00
12 SMALL TOOLS		(1,105.15 * 2.5%)	\$4.51
13 RENTED EQUIPMENT			\$0.00
14 JOB EXPENSES		(1,105.15+648.62+27.63) * .03	\$65.54
15 INSURANCE		(1,105.15+648.62+27.63+53.44) * .015	\$33.76
16 BOND		(1,105.15+648.62+27.63+53.44+27.52) * .011	\$25.13
17 TOTAL EXPENSES			\$128.93
<u>OVERHEAD & PROFIT</u>			
18 OVERHEAD/PROFIT		10.00%	\$230.92
19		<u>ESTIMATE</u>	\$2,540.00



Richard Mennona
Advanced Fire & Security, Inc.
 2701 Gateway Drive
 Pompano Beach, Florida 33069
 office (954) 772-1700
 fax (954) 772-0500
 State License # EF 20001066
 UL # S-7195-1
 FM # 3043261

FIRE ALARM SYSTEM PROPOSAL

Date: April 17, 2023
Name of Project: Waste Water Hollywood BDA Grid
Contact Person: Randy Loveland
Company: Loveland Electric

Advanced Fire & Security, Inc. would like to submit the following Proposal for your review and acceptance:

- Engineer drawings dated** _____
- Bill of Material, dated** _____
- Changes per Plan Review** _____

EQUIPMENT

QUANTITY	PART NUMBER	PART DESCRIPTION
1	LOT	PRELIMINARY BDA GRID TEST

Included	Excluded	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Professional Engineer review, Sign and Seal, provided by Advanced Fire
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shop Drawings & Submittal Packages
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Florida Sales Tax
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Expedited Drawings
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parts
<input type="checkbox"/>	<input checked="" type="checkbox"/>	UL or FM Certificate
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Programming
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Permit Fees and Permit Runner Service
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Expedited Permit Fees
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bond Expense
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Labor
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Prevailing Wages Included
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Raceway w/ Pullstring and standard backboxes
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Wiring and Terminations
<input type="checkbox"/>	<input checked="" type="checkbox"/>	120 vac Electrical Connections
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Duct Detector Installation & Mechanical Connections
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lift Rental
<input type="checkbox"/>	<input checked="" type="checkbox"/>	After-hours Work or Firewatch
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spare Parts, per Specifications
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rough Electrical Inspection
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rough Fire Inspection
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rough Smoke Detector Inspection
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Final Inspections and NFPA Certification
<input type="checkbox"/>	<input checked="" type="checkbox"/>	After-hours Inspections
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SRI (Special Request) Inspections - (Municipal Fees)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Customer Training at time of completion

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Other:
Other:
Other:
Other:
Other:

PROPOSAL NOTES:

Preliminary Grid Test Requested By Hollywood Plan Rev.

decibel readings at "critical" locations as required, and there will be a report generated for this showing the readings at each locations with pass/fail As well as overall pass fail as to if it meets minimum requirements

PRICING:

Lump Sum Contract Pricing: \$2,000.00

(EXCLUDES PERMIT FEES)

TERMS and CONDITIONS:

- * AutoCad files to be provided by customer to Advanced Fire
- * Above referenced inspections include up to 8 hours each during standard business hours unless otherwise noted, or additional inspections were caused by failure of said inspection caused by Advanced Fire and Security, Inc. Not included are failures caused by others, AHJ or City rollovers, AHJ time limit inspections, or anyreason not directly caused or the fault of Advanced Fire and Security, Inc. Any inspections above and beyond inclusion or failures by others fees will be charged at the standard hourly rate by Advanced Fire and Security to said contractor, Municipal Fees will be pass through billing at direct cost to contractor.

* All change orders must be signed, approved, and processed by both parties prior to commencement of any work or materials release.

* 72 hour advance notice to project manager is required for the scheduling of manpower or inspections.

* Net 30 upon receipt of Invoice. Charges will be invoiced as the job progresses.

* Billing schedule as follows-Project Value

Less than \$10,000.00=50% at completion of drawings, 50% after rough inspections.

\$10,001.00-\$30,000.00=30% at completion of drawings, 50% after rough inspections, 20% after trim.

Above \$30,000.00=10% at completion of drawings, 40% after rough inspections, 40% after trim, 10% after finals

* Account must be paid to 90% progress and current prior to final inspection.

* Advanced Fire and Security, Inc. can slow or stop work without liability or penalty if it has not been paid its draw request in 30 days after submission.

* Past Due amounts may be subject to late payment fees of up to 18%.

* All returned parts and equipment as a result of customer change request may be subject to a 20% restocking fee.

* Up to 2 rounds of drafting corrections prior to submittal included in price.

Advanced fire and Security will provide standard line drawing , with cutsheets and product submittal for the scope of work area only unless other wise notated in proposal.

*** This quote will become an exhibit or addendum to all contracts and/or purchase orders.**

* Advanced Fire and Security Inc. retains the right to void all warranties if customer fails to make . full payment for completed work.

* Contracts must be sent to sales representative at time of booking or prior to completion of drawings or they cannot be accepted and booking order attached will stand as contract.

***Force Majeure.** Notwithstanding the foregoing sections of this Agreement, Subcontractor shall not be responsible for failure to make deliveries or the failure to perform labor or services where such failure to deliver or perform is due to fires, strikes, wars, accidents, pandemics, cyber-attacks, tariffs, Acts of God, action of any State, Federal, or local government body or agency, or other causes beyond its reasonable control (collectively a "Force Majeure Event"). Under no circumstances will Subcontractor be responsible for any damages arising out of or resulting from any delay caused by a Force Majeure Event.

***Damages.** Notwithstanding anything to the contrary in the Agreement, to the maximum extent permitted by applicable law, in no event will Subcontractor be liable for any consequential, incidental, special, indirect, or punitive damages whatsoever, including without limitation loss of use, loss of value or loss of profits arising out of or in connection with the Work or the Agreement.

ACCEPTANCE:

Customer:

By: _____

Name: _____

Date: _____

Advanced Fire & Security, Inc:

By: _____

Name: Richard Mennona

Date: _____

Prices quoted are firm for 30 days.

AHJ may require additional devices to meet Code requirements

Revision 15.5

1580 Sawgrass Corporate Parkway, Suite 400
Sunrise, FL 33323

T: 954.200.7611



June 22, 2023

Ms. Wilhelmina Montero, P.E.
Senior Project Manager
Department of Public Utilities - ECSD
City of Hollywood
1621 N. 14th Avenue
Hollywood, Florida 33022

158421

Subject: Deep Injection Wells No. 3 and No. 4 Pump Station Project
Cardinal's Cost Proposal CP-019 Add Twisted Shielded Pair Cables

Dear Ms. Montero:

Please receive this letter as Brown and Caldwell's recommendation to accept Cardinal's change proposal CP-019 for additional twisted shielded pair signal cables.

Similar to CP-009, it was discovered that additional twisted shielded pair cables were needed in the same area. We have reviewed the proposal in the amount of \$5,316.95 and find it to be reasonable for the work entailed in the scope of changes communicated to the contractor, which is described as follows:

Contract Drawing E-10-1104 calls for six (6) twisted shield pair cables to run from existing PLC 16 to panel STC-1014 adjacent to Injection Well No. 4. However, nine (9) cable pairs are needed. Additional cables are also needed between panels STC-1014 and STC-1013 and some of the field instruments at Injection Well No. 3. (See the diagram attached to CP-019.)

Please let me know if you have any questions or comments regarding this matter.

Very truly yours,

Brown and Caldwell

A handwritten signature in blue ink that reads "Mark Harber".

Mark Harber, Construction Manager
Sunrise, Florida



June 15, 2023

Mr. Mark Harber
Project Manager
Brown and Caldwell | Hollywood SRWTP
MHarber@Brwncald.com

**Re: City of Hollywood, SRWTP Deep Injection Wells No. 3 and No. 4 Pump Station
Cardinal Job #: 85030, City Project #: 19-9119A
Change Proposal: CP-019 Additional cable per RFP 03**

Mr. Harber,

Please see attached change proposal for the additional cost associated with RFP-003 (attached).

Assumptions:

- Currently no schedule impact for redesign pending timely approval

Cost and Schedule proposal:

1. **Schedule: 0 days.**
2. **Cost:**

Cost Summary by Category

a. Material Total		\$0.00
b. Labor Total		\$0.00
c. Subcontract		\$4,946.00
d. Equipment Total		\$0.00
e. Overhead	10% of line a	\$0.00
f. Overhead	10% of line b	\$0.00
g. Fee	7.5% of line c	\$370.95
h. Fee	10% of line d	\$0.00
i. Profit	0% of a-h	\$0.00
j. Bond Allowance	0%	\$0.00
Total Estimated Cost		\$5,316.95



Attached:

- Cost breakout
 - RFP-003
 - Sub change order
-

Respectfully,

A handwritten signature in blue ink, appearing to read 'J. Scott', written on a light blue background.

John Scott

Sr. Project Manager
Cardinal Contractors / Primoris Water & Mechanical
John.scott@prim.com
www.prim.com

CC:

COST ESTIMATE SHEET

City of Hollywood
 Deep Injection Wells No. 3 and No. 4 Pump Station
 City Project #: 19-9119A

Cardinal Job No. 85030
 Proposal No. 019

Description: CP-019 Additional cable per RFP 03

COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS (Include 6% FSST)		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS	
				UP	TOTAL	UP	TOTAL	HRS/UNIT	MH	RATE	(11 & 16) TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
					(34)		(31)						(41)		(20 & 21)		
	TOTALS ----->				\$0		\$0.00		0.0		\$0.00		\$4,946.00		\$0.00		\$4,946.00
	Labor Burden	LS	1							0.00	\$0.00						\$0.00
	Fuel/EOE/Surtax	LS	1	0.20	\$0		0	\$0.00									\$0.00
	Sales Tax	LS	1		\$0	0.06	\$0.00							0	\$0.00		\$0.00
	SUBTOTALS				\$0		\$0.00		0		\$0.00		\$4,946.00		\$0.00		\$4,946.00
	SCOPE OF WORK:																
	Project Engineer	MH	0						0.0	68.00	\$0.00						\$0.00
	Field Engineer	MH	0						0.0	60.50	\$0.00						\$0.00
	Construction Manager	MH	0						0.0	102.00	\$0.00						\$0.00
	Superintendent	MH	0						0.0	85.00	\$0.00						\$0.00
	QA/QC Manager	MH	0						0.0	78.00	\$0.00						\$0.00
	Onsite Safety Coordinator	MH	0						0.0	64.00	\$0.00						\$0.00
	Surveyor	MH	0						0.0	87.47	\$0.00						\$0.00
	Subcontractor																
	Electrician (materials and work)	EA	1										\$4,946.00				\$4,946.00
	Controls Sub (Instruments, calib., PLC integration)	EA	0										\$0.00				\$0.00
	Controls surtax	EA	0										\$0.00				\$0.00
	Rebar design change, labor, materials	EA	0										\$0.00				\$0.00



REQUEST FOR PROPOSAL – No. 003

HOLLYWOOD SOUTHERN REGIONAL WASTEWATER TREATMENT PLANT

DEEP INJECTION WELLS NO. 3 AND NO. 4 PUMP STATION

To CONTRACTOR: Cardinal Contractors

DATE: June 6, 2023

IN ACCORDANCE WITH THE TERMS OF THE CONTRACT SUBMIT AN ITEMIZED COMPLETE COST PROPOSAL INCLUDING ALL LABOR, MATERIAL, EQUIPMENT AND SUBCONTRACT COST AND TIME IMPACT IF ANY FOR THE WORK DESCRIBED BELOW:

SCOPE

Additional Signal Cables, PLC 16 – IW No. 3 and 4

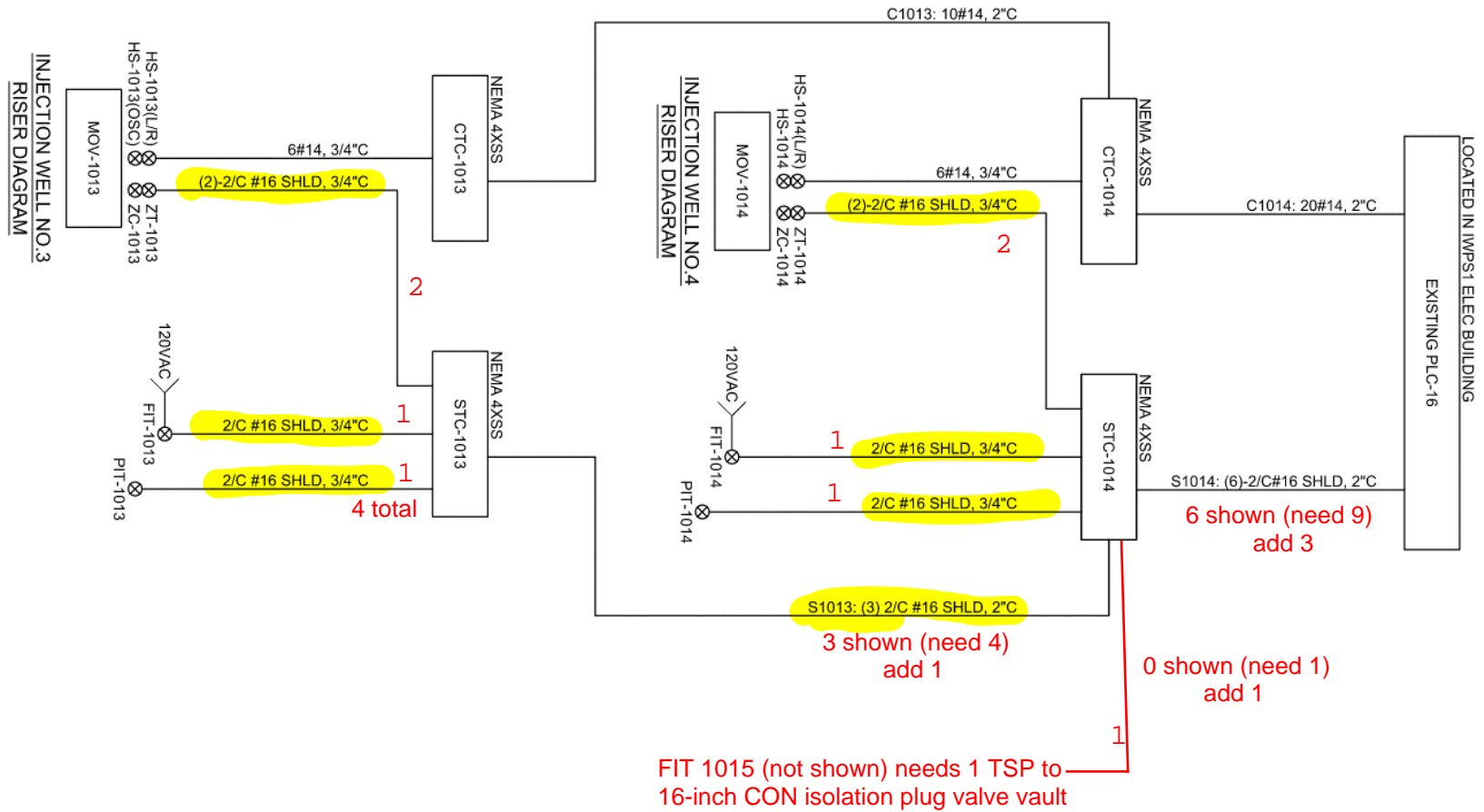
In addition to the cable added as described in CP 009 and RFI No. 85, provide a cost proposal to furnish and install additional cables in accordance with the following description:

- Add 3 #16 twisted shielded pair cables from PLC 16 to STC 1014 for a total of 9.
- Add 1 #16 twisted shielded pair cables STC-1014 to STC-1013 for a total of 4.
- Add 1 #16 twisted shielded pair cables STC-1014 to FIT-1015.

THIS IS NOT A CHANGE ORDER OR A DIRECTIVE TO PROCEED WITH THE WORK DESCRIBED HEREIN. THIS DOCUMENT REQUESTS PRICING FOR EVALUTION BY THE OWNER AND THE ENGINEER.

SIGNED: _____

RFP 003 - ADDITIONAL 2/C SHIELDED CABLES



- Add 3 TSP cables from PLC 16 to STC 1014 for a total of 9.
- Add 1 TSP cable from STC-1014 to STC-1013.
- Add 1 TSP cable from STC-1014 to FIT-1015.



1344 S. Killian Dr.
Lake Park, FL 33403
561-882-0401 Fax 561-882-0555

TO: Cardinal Contractors
13794 NW 4th Street
Sunrise, Fl. 33325

DATE: 6/8/2023 NO: 6
REVISED:
JOB: Hollywood Deep Injection Well #3 & #4
JOB NO: 22001

ATTN: John Scott

We have received and reviewed your proposed change request Brown and Caldwell RFP No. 003
Pertaining to Additional signal cables, PLC-16 to IW No. 3 and 4

We propose to furnish all material, labor and supervision for the execution of the electrical work covered by this change for the lump sum of: \$4,946.00

In order to incorporate this change, we estimate that we will require additional time for completion and have based our proposal upon receiving 2 calendar days extension.

This proposal is firm for acceptance within 30 days. We cannot proceed with the work covered by this proposed change until we receive written approval, which must be within the above time limit to prevent additional costs.

Exceptions taken are: _____

This proposal is based solely on the usual cost elements such as labor, material and normal markups and does not include any amount for additional changes in the sequence of work, delays, disruption, rescheduling, extended overhead, overtime, acceleration and/or impact costs and the right is expressly reserved to make claim for any and all of these and related items of cost prior to any final settlement of this contract. The issuance of a change order is acknowledgement and acceptance of all terms and conditions of this written proposal and may not be altered in any way unless agreed to in writing.

LOVELAND ELECTRIC, INC.

Randy Loveland
Project Manager

LOVELAND ELECTRIC II, LLC.

Change Order Estimate Sheet

<u>LABOR</u>					
1	ESTIMATED MAN HOURS	<u>32.54</u>	HRS X RATE	<u>\$68.29</u>	\$2,222.16
2	SUPERVISION		(52.08*.2) x (68.29*1.25)		\$555.54
3	PROJECT MANAGER		(52.08*.05) x (68.29*1.4)		\$155.55
4	TOTAL LABOR				\$2,933.25
<u>MATERIAL</u>					
5	ESTIMATED MATERIAL		\$1,143.23		
6	MATERIAL QUOTES		\$0.00		
7	SUBTOTAL MATERIAL		\$1,143.23		
8	FREIGHT / DELIVERY		\$22.86		
9	SALES TAX		\$81.63		
10	TOTAL MATERIAL		\$1,247.72		
<u>EXPENSES</u>					
11	SUBCONTRACTOR COST				\$0.00
12	SMALL TOOLS		(4,694.64 x 2.5%)		\$73.33
13	RENTED EQUIPMENT				\$0.00
14	JOB EXPENSES		(4,694.64+852.62+117.37) x .03		\$127.63
15	INSURANCE		(4,694.64+852.62+117.37+169.94) x .015		\$65.73
16	BOND		(4,694.64+852.62+117.17+169.94+87.52) x .011		\$48.92
17	TOTAL EXPENSES				\$315.61
<u>OVERHEAD & PROFIT</u>					
18	OVERHEAD/PROFIT			10.00%	\$449.66
19			ESTIMATE		\$4,946.00

	Description	Quantity	Total Material	Total Hours
1	#16- 1P TWISTED CABLE	2,295	1,124.55	21.58
2	3/4"x 60' BLACK TAPE	1	1.76	3.30
3	WIRE PULLING LUBRICANT (QUART)	1	16.92	3.30
4	#16 WIRE CONTROL TERM	36	0.00	4.36
	Totals	2,333	1,143.23	32.54