



# Memo

**To:** Advisory Board Directors

**From:** Mike Blondino, District Administrator  
James Perry, Parks Services Manger

**Date:** April 18, 2024

**Subject:** Approval of FY 2023-24 CIP Funds for Del Campo and Glancy Oaks Booster Pump Replacements.

**Introduction/Discussion:**

CRPD has been working for years to get the Del Campo and Glancy Oaks irrigation booster pumps replaced. We have finally received proposals to provide both the equipment and installation thanks, in part, to the Cummings Group. Initially the Advisory Board approved \$75,000 from Quimby/in-lieu fees (088F) for Del Campo and \$30,000 from Quimby/In- lieu fees (088F) for Glancy Oaks Park.

After receiving proposals, an additional \$47,828 for a grand total of \$152,828, which includes a 5% contingency will be needed for the two projects. We have identified funds from Quimby/In-lieu fees earmarked for Districtwide Improvements and savings available from the CP Tennis Courts Improvement Project allocation.

With the utilization of FY2023-24 CIP (Capital Improvement Program) funds along with additional funding from fees, we can move forward with this project in the next few months. We have discussed the increased funding needs with the Budget Committee, and they support using the additional funds to finally complete these two projects.

We received the following proposals from Saenz Landscape Construction Company and Takahara/S.E Technologies.

Takahara/S.E Technologies:

- Del Campo: \$90,175
- Glancy Oaks: \$59,325

Saenz Landscape Construction Company:

- Del Campo Park: \$88,038
- Glancy Oaks Park: \$57,512

The proposed scope of work for the booster pumps project includes the following:

- Removal of existing pumps and related piping, electrical, and concrete pads. Installation of new electrical, concrete pads, equipment and materials, and start-up of new enclosed variable flow device.

These projects are essential for ensuring the proper and efficient watering of Del Campo and Glancy Oaks Parks.

**Financial Analysis:**

Staff recommends using the \$105,000 allocation and up to \$47,828 additional funds for a total of \$152,828 from the FY2023-24 CIP Program.

Total Project Cost Breakdowns:

Del Campo Park \$88,038  
Glancy Oaks Park \$57,512

Currently there is up to \$40,000 available in the Districtwide Improvement category that can be appropriated with Advisory Board approval and up to \$23,320 savings available from CP Tennis Courts Improvement for the additional \$47,828 funding needed.

**Recommendation:**

Staff and the Budget Committee recommends the Advisory Board allocate up to \$152,828 towards the Del Campo Park and Glancy Oaks Park Booster Pump Replacement projects and delegate authority to the District Administrator or designee to execute the contracts with Saenz Landscape Construction Company.



## SAENZ LANDSCAPE CONSTRUCTION COMPANY

12167 Folsom Blvd., Suite D Rancho Cordova, CA 95742  
Office: 916-294-0555 Fax: 916-294-0511  
License #551658 Classifications: A and C-27  
Certified with State and City of Sacramento as SBE  
Registered with Sacramento Housing Redevelopment Agency as MBE  
Public Works DIR No: 100005556

3/21/24

Huy Hoang  
Cumming Group  
3400 Douglas Boulevard, Suite 120  
Roseville, CA 95661

### Del Campo Park - Booster Pump, Scope of Work - **Revised**

Demo existing pump plumbing back to the backflow and also the pump concrete pad and disconnect electric back to the panel. \$1,859.00

Plumb new 4" ductile iron to the discharge of the backflow, then install 4" PVC underground with ductile iron 4" spool with 90 to booster pump engage. \$6,504.00

Install conduits to the VFD, one conduit for power from electric panel. the other conduit for relay wires from irrigation controller, that's in the building. Will need to sawcut walk and core hole to get into the building. Then install conduit along wall to the irrigation controller. \$7,937.00

Pour concrete pad 66"x56"x6" thick, then install new 20 HP 3 Phase booster pump onto pad. connect conduits to the VFD panel. pull electric wires for power from panel. and pull relay wires from irrigation controller. Connect 4" ductile iron to the engage side of booster pump. \$49,708.00

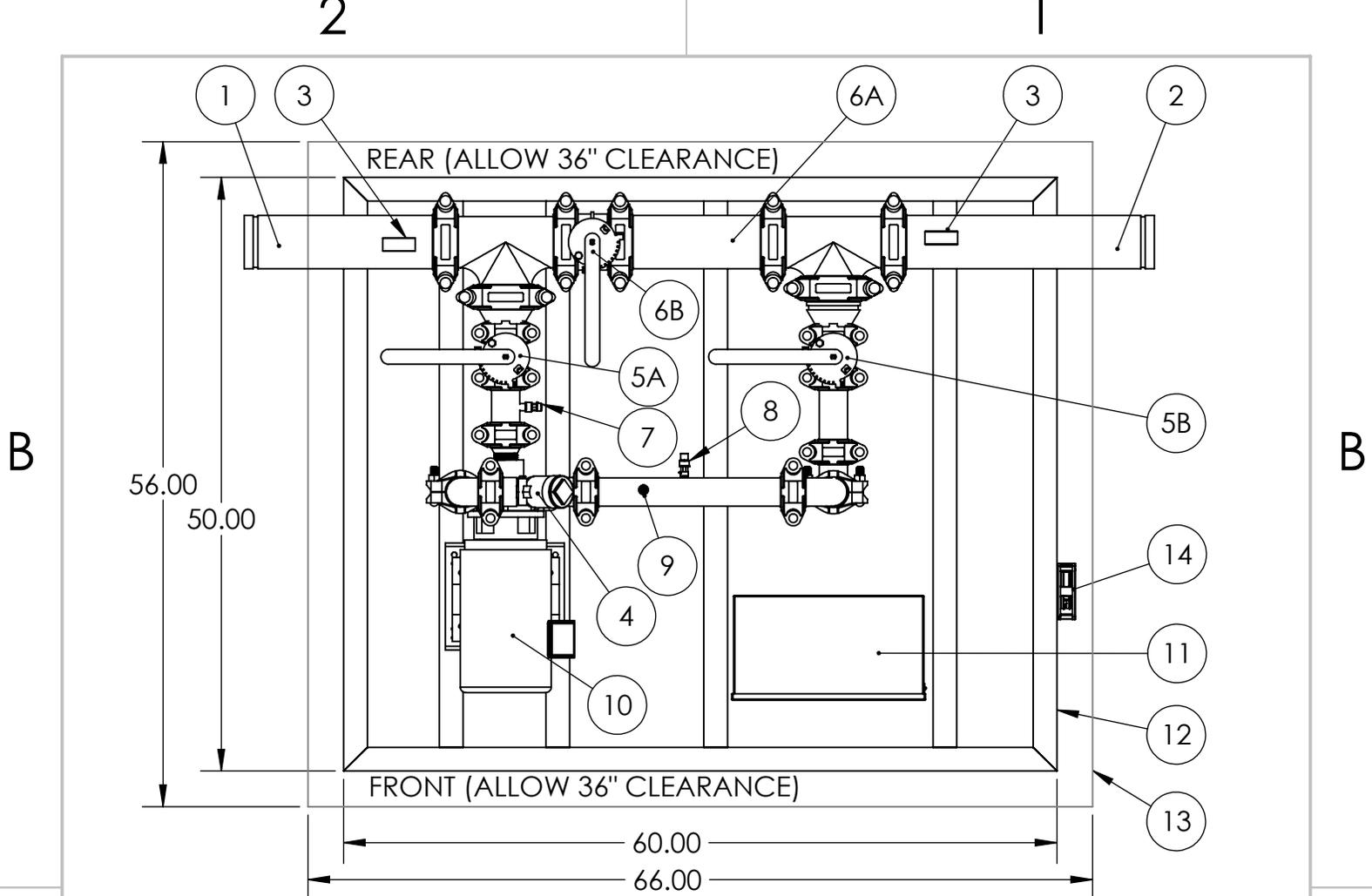
From discharge side of pump will connect with ductile iron into the ground, then install to PVC inground, install 4" master valve with a 4" flow sensor, then reconnect to the 4" existing main line. Pull master valve wires in conduit with flow sensor cable in conduit back into the building were the irrigation controller is. \$19,883.00

Payment and Performance Bonds \$2,147.00

**Grand Total** **\$88,038.00**

Please give me a call on my cell phone if you should have any questions on this bid proposal. My cell number is (916) 224-5263. If I am unable to answer my phone, please leave me a message. I will make sure to return your phone call.

Best regards,  
Michael Saenz  
Saenz Landscape Construction Company



ITEM NO.	CUSTOMFLOW REFERENCE NUMBER: 400CRPD04052022-1-20VFD-230-3	QTY.
1	4" SUCTION W/ 90 ELBOW GROOVED FOR FLANGE CONNECTION	1
2	4" DISCHARGE W/90 ELBOW GROOVED FOR FLANGE CONNECTION	1
3	0-160 PRESSURE GAUGE	2
4	4" AN 7811 GROOVED CHECK VALVE	1
5A	4"AN 7721-3 GROOVED BUTTERFLY VALVE FOR ISOLATION	1
5B	4"AN 7721-3 GROOVED BUTTERFLY VALVE FOR ISOLATION	1
6A	4" BYPASS FOR OPERATION DURING MAINTENANCE	1
6B	4"AN 7721-3 GROOVED BUTTERFLY VALVE WITH YELLOW HANDLE FOR BYPASS	1
7	CUSTOM TEMPERATURE SWITCH PDNC	1
8	EFFECTOR PRESSURE TRANSDUCER 2424 0-200 PSI	1
9	1/4" NPT PLUG	1
10	BERKELEY PUMP B3TPMS WITH BRONZE IMPELLER, RATED FOR 400 GPM AT 60 PSI INCREASE WITH 20HP 3-PHASE , 208-230/460V ODP MOTOR	1
11	FUJI RAPID PAK FRN020F1S-2DY VFD, 60-AMP OUTPUT, 90-AMP CIRCUIT BREAKER WITH 230V THREE-PHASE INPUT & THREE-PHASE OUTPUT WITH (2) PUMP START RELAY TERMINALS , 150 VA CONTROL TRANSFORMER, RELAY-RESET FOR CUSTOM TEMPERATURE SWITCH.	1
12	ALUMINUM 2 DOOR ENCLOSURE SIZE 60"x50"x48", SLANTED ROOF, POWDER COATED DARK GREEN COLOR, ALUMINIUM BRACKETS AND STEEL HARDWARE.	1
13	LEVEL CONCRETE PAD SIZE 66"x56", 4" THICK AND 1" ABOVE SURROUNDING GRADE. TOOL EDGES 1/2". NOTE THE INLET/OUTLET ARE LOCATED ON OPPOSITE SIDES. ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE ACCESS.	1
14	HOOD COVER & 110 CFM ORION COOLING FAN	1
NOTES	THREE-PHASE 230V ELECTRICAL SERVICE WITH 90-AMP BREAKER WITH GROUND AND CONTROL WIRES ARE REQUIRED. THE TWO CONDUITS AND WIRES ARE CONNECTED TO THE PANEL TERMINALS INSIDE THE ENCLOSURE. V-POWER EQUIPMENT TO PROVIDE SHOP ASSEMBLY, STARTUP, TRAINING AND OWNERS MAUNAL. PHONE (916) 266-6743. 4201 WEST CAPITOL AVE, WEST SACRAMENTO, CA 95691.	

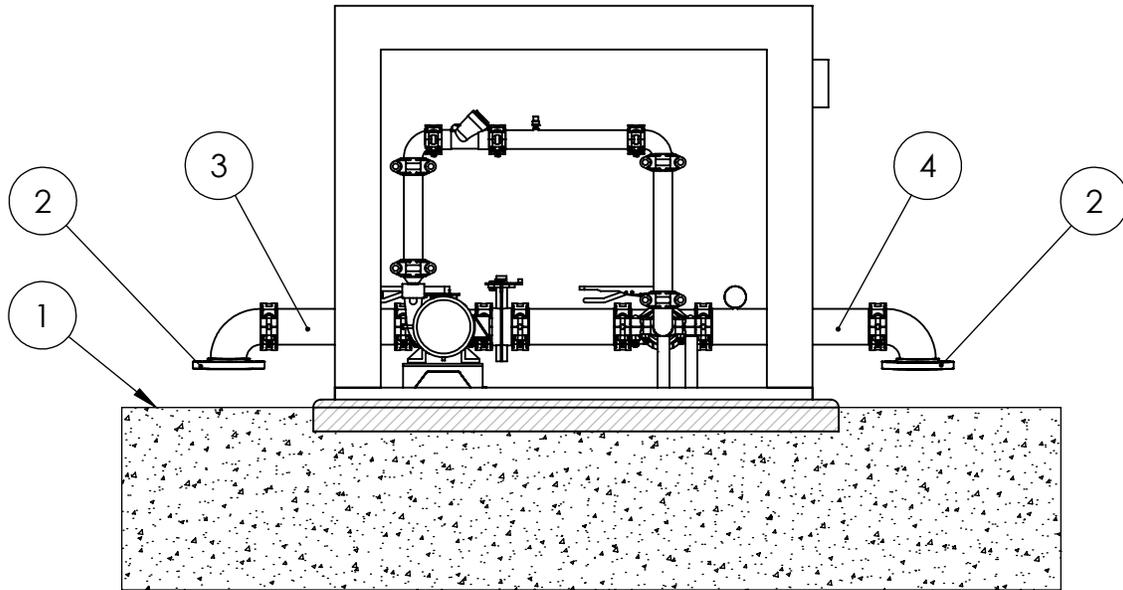
<b>V-POWER EQUIPMENT INC.</b> (916) 266-6743	DATE: 04/05/2022	CA LIC. NO. 1068426	<b>DEL CAMPO PARK - CRPD</b> <b>CARMICHAEL, CA</b>  <b>60X50 CUSTOMFLOW SPECIFICATION</b>
	DRAWN BY: MD	CHK. BY: CM	
			SHEET 1 OF 3

2

1

B

B



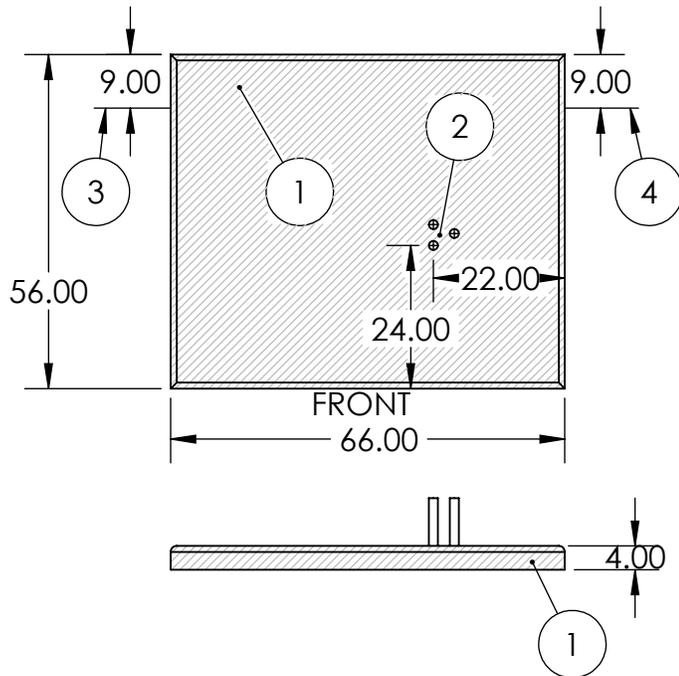
**FLANGE CONNECTION DETAIL**

- 1. FINISH GRADE 1" BELOW SURFACE OF CONCRETE SLAB
- 2. GROOVED FLANGE ADAPTOR
- 3. BOOSTER PLUMBING SUCTION
- 4. BOOSTER PLUMBING DISCHARGE

NOTE: POUR CONCRETE THRUST BLOCKS WHERE NEEDED & TEST FOR LEAKS

A

A



**CONCRETE SLAB DETAIL**

- 1. SLAB DIMENSIONS 66"X56", 4" THICK \*ALLOWS FOR 3" APRON AROUND BOOSTER ENCLOSURE
  - 2. ELECTRICAL CONDUIT, 2" SPACING BETWEEN CONDUITS \*CRITICAL LOCATION
  - 3. SUCTION PLUMBING LOCATION
  - 4. DISCHARGE PLUMBING LOCATION
- NOTE: ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE ACCESS.

**ANCHORING DETAIL**

ANCHOR ALL FOUR CORNERS OF BOOSTER USING ATTACHED ANCHOR POINTS.  
RECOMMEND USING WEDGE TYPE ANCHOR BOLTS SIZE 3/8"X3"

V-POWER EQUIPMENT INC.  
(916) 266-6743

DATE: 04/05/2022

CA. LIC. NO. 1068426

DRAWN BY: MD

CHECK BY: CM

**DEL CAMPO PARK - CRPD  
CARMICHAEL, CA**

**FLANGE & 66X56 CONCRETE SLAB DETAIL**

2

1

# 60"X50" CUSTOMFLOW BOOSTER PACKAGE INSTALLATION

## A) CONCRETE PAD CONSTRUCTION

- 1) Determine location and grade for the site.
- 2) Form and pour a level concrete slab size 66" X 56", 4" thick.  
Note: Slab surface 1" above grade, see slab detail for electrical conduit locations.
- 3) Allow for 36" in front and rear of the enclosure for service access.
- 4) Mount and level your Customflow booster on the concrete pad centering the unit allowing a 3" apron around the outside of the enclosure.
- 5) Anchor all four corners through the attached anchor brackets.
- \* Recommend using a wedge type anchor 3/8" X 3" long.

## B) PLUMBING CONNECTION FOR DROP PIPE CONNECTION

- 1) Connect the supplied grooved galvanized pipes to the suction and discharge 90's with the green couplings provided.
- 2) Measure and cut the supplied grooved PVC (not longer than 10") glueing the spigot end into your mainline.
- 3) Connect the PVC grooved end to the galvanized pipe from the booster with the supplied orange couplings.
- 4) Wrap the orange below grade couplings with 10 MIL tape.
- 5) Pour thrust blocks as needed.
- 6) Test for leaks.

### FOR FLANGED CONNECTION

- 1) Connect the supplied grooved flange adaptors to the suction and discharge 90's.  
NOTE: The wide edge of the gasket goes towards the grooved flange, no other gaskets necessary.
- 2) Connect the suction and discharge flanges to the flanged mainline spools (supplied by others).
- 3) Pour thrust blocks as needed.
- 4) Test for leaks.

## C) ELECTRICAL CONNECTION

- 1) Land the conduits and wires inside the VFD panel.
- 2) Confirm the supplied power voltage and phase is correct and matches the specification.
- 3) Terminate AC line wires at the top of the breaker labeled "CUSTOMER SUPPLY" and ground on the appropriate grounding lug.
- 4) Terminate 24VAC control wires to the terminal strip labeled "24R1 & 24N1" for pump start control. If a second pump start controller is being used terminate the second control to "24R2 & 24N2".
- 5) Make sure all wiring is done Per local code requirements.

## D) START UP & WARRANTY

- 1) Verify the booster is installed properly, both plumbing and power connections are complete.
- 2) Contact V-Power Equipment Inc. for startup.
- 3) Standard Warranty is three years from date of delivery. For any warranty issues please call V-Power Equipment Inc.

B

B

A

A

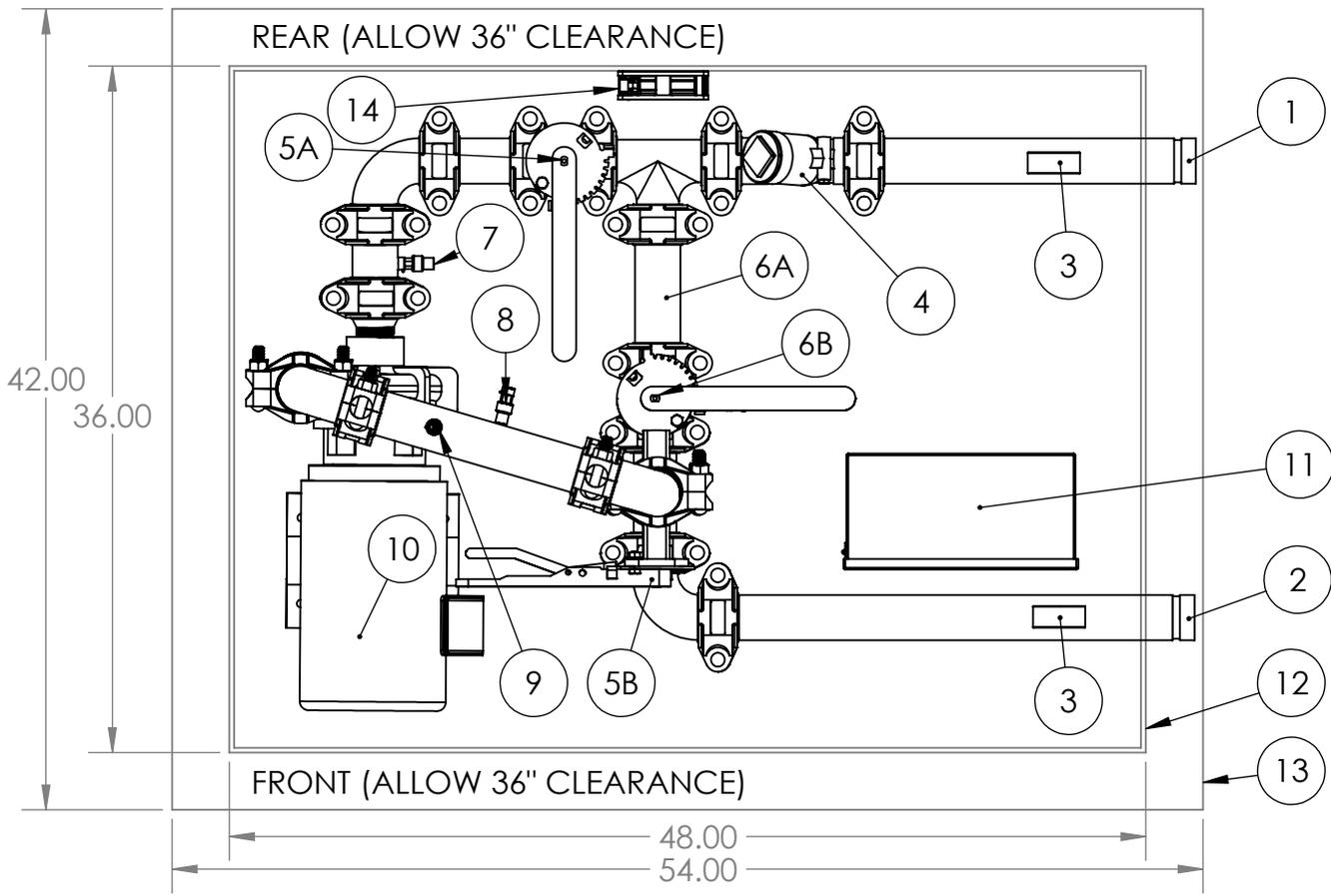
<b>V-POWER EQUIPMENT INC.</b> (916) 266-6743	DATE: 04/05/2022	CA LIC. NO. 1068426	<b>DEL CAMPO PARK - CRPD</b> <b>CARMICHAEL, CA</b>
	DRAWN BY: MD	CHK. BY: CM	
	<b>CUSTOMFLOW INSTALLATION INSTRUCTION</b>		

2

1

B

B



A

A

ITEM NO.	CUSTOMFLOW REFERENCE NUMBER: 45CRPD01152024-1-1.5VFD-230-1	QTY.
1	2" SUCTION GROOVED FOR DROP PIPE CONNECTION	1
2	2" DISCHARGE GROOVED FOR DROP PIPE CONNECTION	1
3	0-160 PRESSURE GAUGE	2
4	2" AN 7811-3 GROOVED CHECK VALVE	1
5A	2"AN 7721-3 GROOVED BUTTERFLY VALVE FOR ISOLATION	1
5B	2"AN 7721-3 GROOVED BUTTERFLY VALVE FOR ISOLATION	1
6A	2" BYPASS FOR OPERATION DURING MAINTENANCE	1
6B	2"AN 7721-3 GROOVED BUTTERFLY VALVE WITH YELLOW HANDLE FOR BYPASS	1
7	CUSTOM TEMPERATURE SWITCH PDNC	1
8	EFFECTOR PRESSURE TRANSDUCER 2424 0-200 PSI	1
9	1/4" THREADED PIPE PLUG	1
10	STA-RITE PUMP JBMF3 WITH BRONZE IMPELLER, RATED FOR 45 GPM AT 15 PSI INCREASE WITH 1.5 HP 3-PHASE, 3450 RPM, 208-230/460V ODP MOTOR	1
11	PUMP CONTROL PANEL MODEL CF230-1-10.0* WITH MITSUBISHI FR-D720S-100-NA VFD, 30-AMP CIRCUIT BREAKER WITH 230V SINGLE-PHASE INPUT & THREE-PHASE OUTPUT WITH (2) PUMP START RELAY TERMINALS, 150 VA CONTROL TRANSFORMER, RELAY-RESET FOR CUSTOM TEMPERATURE SWITCH.	1
12	ALUMINUM TWO PIECE ENCLOSURE SIZE 48"x36"x40"x38", PIVOT TOP, SLANTED ROOF. POWDER COATED DARK GREEN COLOR, ALUMINIUM BRACKETS AND STEEL HARDWARE.	1
13	LEVEL CONCRETE PAD SIZE 42"x54", 4" THICK AND 1" ABOVE SURROUNDING GRADE. TOOL EDGES 1/2". NOTE THE INLET/OUTLET ARE LOCATED ON THE RIGHT SIDE FACING THE FRONT. ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE ACCESS.	1
14	HOOD COVER & 110 CFM ORION COOLING FAN	1
NOTES	SINGLE-PHASE 230V ELECTRICAL SERVICE WITH 30-AMP BREAKER, GROUND AND CONTROL WIRES ARE REQUIRED. THE TWO CONDUITS AND WIRES ARE CONNECTED TO THE PANEL TERMINALS INSIDE THE ENCLOSURE. V-POWER EQUIPMENT TO PROVIDE SHOP ASSEMBLY, STARTUP, TRAINING AND OWNERS MANUAL. PHONE (916) 266-6743. 4201 WEST CAPITOL AVE, WEST SACRAMENTO, CA 95691.	

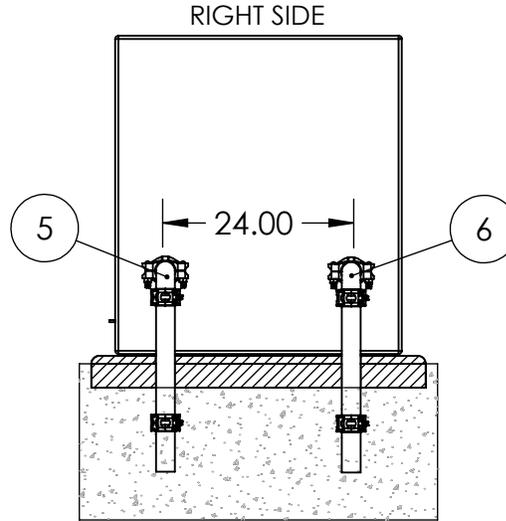
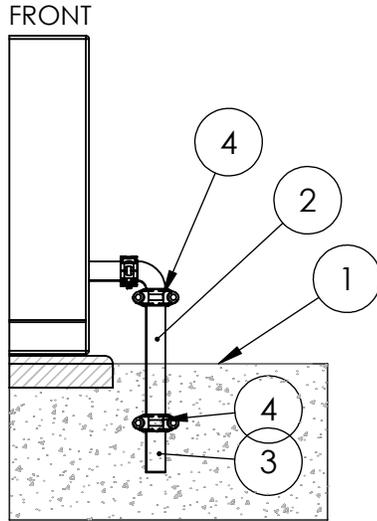
<b>V-POWER EQUIPMENT INC.</b> (916) 266-6743	DATE: 01/15/2024	CA LIC. NO. 1068426	<b>GLANCY OAKS PARK</b> <b>SACRAMENTO, CA</b> <b>48X36 CUSTOMFLOW SPECIFICATION</b>
	DRAWN BY: MD	CHECK BY: CM	
			SHEET 1 OF 3

2

1

2

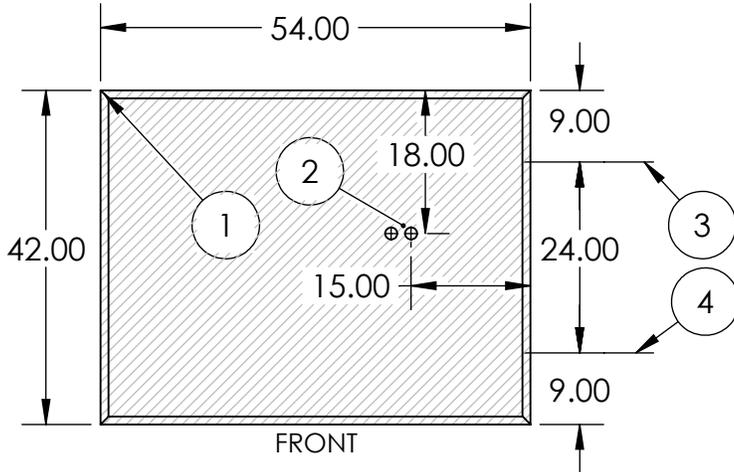
1



**DROP PIPE DETAIL**

- 1. FINISH GRADE 1" BELOW SURFACE OF CONCRETE SLAB
- 2. 1.6" GROOVED GALVANIZED DROP PIPE WRAPPED WITH 10 MIL TAPE FOR BELOW GRADE PROTECTION
- 3. 10" GROOVED PVC CUT TO LENGTH TO ADAPT TO UNDERGROUND PLUMBING
- 4. GROOVED COUPLING \*WRAP WITH 10 MIL TAPE FOR BELOW GROUND APPLICATION
- 5. BOOSTER PLUMBING DISCHARGE
- 6. BOOSTER PLUMBING SUCTION

NOTE: POUR CONCRETE THRUST BLOCKS WHERE NEEDED & TEST FOR LEAKS

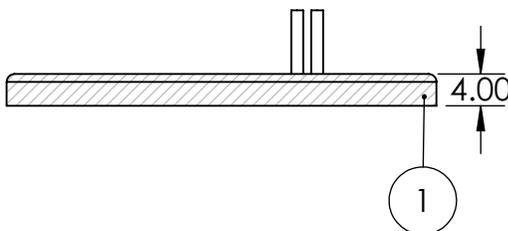


**CONCRETE SLAB DETAIL**

- 1. SLAB DIMENSIONS 54"X42", 4" THICK \*ALLOWS FOR 3" APRON AROUND BOOSTER ENCLOSURE
  - 2. ELECTRICAL CONDUIT, 1" SPACING BETWEEN CONDUITS \*CRITICAL LOCATION
  - 3. SUCTION PLUMBING LOCATION
  - 4. DISCHARGE PLUMBING LOCATION
- NOTE: ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE ACCESS.

**ANCHORING DETAIL**

ANCHOR ALL FOUR CORNERS OF BOOSTER USING ATTACHED ANCHOR POINTS. RECOMMEND USING WEDGE TYPE ANCHOR BOLTS SIZE 3/8"X3"



V-POWER EQUIPMENT INC.  
(916) 266-6743

DATE: 01/15/2024

CA. LIC. NO. 1068426

DRAWN BY: MD

CHECK BY: CM

**GLANCY OAKS PARK  
SACRAMENTO, CA**

**DROP PIPE & 54X42 CONCRETE SLAB DETAIL**

SHEET 2 OF 3

2

1

# 48"X36" CUSTOMFLOW BOOSTER PACKAGE INSTALLATION

## A) CONCRETE PAD CONSTRUCTION

- 1) Determine location and grade for the site.
- 2) Form and pour a level concrete slab size 54" X 42", 4" thick.  
Note: Slab surface 1" above grade, see slab detail for electrical conduit locations.
- 3) Allow for 36" in front and rear of the enclosure for service access.
- 4) Mount and level your Customflow booster on the concrete pad centering the unit allowing a 3" apron around the outside of the enclosure.
- 5) Anchor all four corners through the attached anchor brackets.
- \* Recommend using a wedge type anchor 3/8" X 3" long.

## B) PLUMBING CONNECTION FOR DROP PIPE CONNECTION

- 1) Connect the supplied grooved galvanized pipes to the suction and discharge 90's with the green couplings provided.
- 2) Measure and cut the supplied grooved PVC (not longer than 10") gluing the spigot end into your mainline.
- 3) Connect the PVC grooved end to the galvanized pipe from the booster with the supplied orange couplings.
- 4) Wrap the orange below grade couplings with 10 MIL tape.
- 5) Pour thrust blocks as needed.
- 6) Test for leaks.

### FOR FLANGED CONNECTION

- 1) Connect the supplied grooved flange adapters to the suction and discharge 90's.  
NOTE: The wide edge of the gasket goes towards the grooved flange, no other gaskets necessary.
- 2) Connect the suction and discharge flanges to the flanged mainline spools (supplied by others).
- 3) Pour thrust blocks as needed.
- 4) Test for leaks.

## C) ELECTRICAL CONNECTION

- 1) Land the conduits and wires inside the VFD panel.
- 2) Confirm the supplied power voltage and phase is correct and matches the specification.
- 3) Terminate AC line wires at the top of the breaker labeled "CUSTOMER SUPPLY" and ground on the appropriate grounding lug.
- 4) Terminate 24VAC control wires to the terminal strip labeled "24R1 & 24N1" for pump start control. If a second pump start controller is being used terminate the second control to "24R2 & 24N2".
- 5) Make sure all wiring is done Per local code requirements.

## D) START UP & WARRANTY

- 1) Verify the booster is installed properly, both plumbing and power connections are complete.
- 2) Contact V-Power Equipment Inc. for startup.
- 3) Standard Warranty is three years from date of delivery. For any warranty issues please call V-Power Equipment Inc.

B

B

A

A

<b>V-POWER EQUIPMENT INC.</b> (916) 266-6743	DATE: 01/15/2024	CA LIC. NO. 1068426	<b>GLANCY OAKS PARK</b> <b>SACRAMENTO, CA</b>
	DRAWN BY: MD	CHECK BY: CM	
	<b>CUSTOMFLOW INSTALLATION INSTRUCTION</b>		