

Item # 7E  
Date: 8/12/24



▶ 5525 Merle Hay Road | Suite 200  
Johnston, IA 50131  
Main 515.278.2913 + Fax 713.965.0044  
▶ [HRGREEN.COM](http://HRGREEN.COM)

August 12, 2024

Mr. Jordan Cook  
City of Nevada, Iowa  
1209 6th Street  
Nevada, Iowa 50201

Re: Nevada, IA WWTF Improvements – Phase 2: Change Order #5 Recommendation

Dear Jordan,

The following items combined with Change Order #4 on the above referenced project are presented for consideration of approval by City Council. HR Green recommends approval of all change order items.

1. Request for Proposal #9 (RFP-09)  
See enclosed RFP-09 description and proposal. The City has elected to use a private well as the potable water source for the WWTF. Well drilling and testing costs were performed under separate contract. This effort “builds-out” the well system by WBCI to serve the WWTF. The time extension is due to extra time needed to perform this added work to the project and pertains only to the contract Final Completion date as this work is not in the scope of work to be completed by the contract Substantial Completion date. HRG reviewed the proposal and finds the associated costs and time extension to be reasonable. We recommend approval.
2. Change Order Request #18 (COR-018)  
See the enclosed COR-018 description and proposal. HRG reviewed the proposal and related work against our daily records and finds the associated costs to be reasonable. We recommend approval.

Overall, Change Order #5 will increase the Contract Price by \$182,532.00 with 383 calendar days added to the Final Completion date in the Contract Schedule. There is no change to the Substantial Completion date in the Contract Schedule. This cost is equal to 0.5% of the original Contract Price. To date, the overall project cost change is equal to 0.8% of the original Contract Price. Please formally approve Change Order #5 and return an executed copy to our office. Please feel free to contact me with any questions regarding this change order.

Sincerely,  
**HR GREEN, INC.**

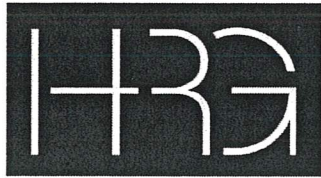
A handwritten signature in blue ink, appearing to read 'Michael Roth'.

**Michael Roth, P.E.**  
Senior Project Manager

Enclosures

Cc: Kurtis Knapp, WBCI

J:\2016\160473.02\Construction\Change\_Management\Change\_Orders\CO5\ltr-20240408-CO#5\_recommendation-Nevada\_WWTF\_Ph2-DRAFT.docx



**HRGreen**

5525 Merle Hay Road, Suite 200  
 Johnston, IA 50131  
 (515) 278-2913 Fax (515) 278-1846

**CO No. 5**  
 Change Order

Distribution:			
Contractor	<input checked="" type="checkbox"/>	Field	<input type="checkbox"/>
Owner	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>

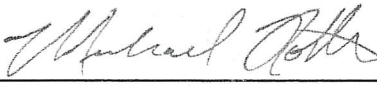
<b>Nevada WWTF Improvements – Phase 2</b> <b>Nevada, Iowa</b>	<b>Date Issued</b>	8/12/24
	<b>Project No.</b>	160473.02
<b>Williams Brothers Construction, Inc.</b> <b>P.O. Box 1366</b> <b>Peoria, IL 61654</b>	<b>Contract Date</b>	February 18, 2021
	<b>Notice to Proceed Date</b>	March 19, 2021

See attached cover letter.

Item	Contract Time	Contract Price
1. RFP-09	383 calendar days (Final Completion only)	\$167,749.00
2. COR-018	0 calendar days	\$14,783.00
<b>Total</b>	383 calendar days (Final Completion only)	\$182,532.00

	Contract Price	Substantial Completion	Final Completion
Original Contractual Limit	\$35,850,000.00	June 30, 2023	Sept 30, 2023
Net Change by previously-authorized Change Order(s)	\$115,023.27	107 days	107 days
The Contractual limit prior to this Change Order	\$35,965,023.27	Oct 15, 2023	Jan 15, 2024
The Contract will be adjusted by this Change Order in the amount of	\$182,532.00	0 days	383 days
The new Contractual limit including this Change Order will be	\$ 36,147,555.27	Oct 15, 2023	Feb 1, 2025

**NOT VALID UNTIL SIGNED BY THE CONTRACTOR, OWNER'S REPRESENTATIVE, if applicable, AND OWNER**

Contractor <b>Williams Brothers Construction, Inc.</b>	Owner's Representative <b>HR Green, Inc.</b>	Owner <b>City of Nevada, Iowa</b>
By	By 	By
Date:	Date: 8/2/24	Date:



**WILLIAMS  
BROTHERS  
CONSTRUCTION, INC.**

## Contractor's / Subcontractor's Proposal Breakdown Summary

Date: 08/02/24

RFP-09R2

**Engineer:**  
HR Green  
5525 Merle Hay Rd. Suite 200  
Johnston, IA 50131

**OWNER:** City of Nevada  
**PROJECT:** Nevada WWTF Phase 2  
Nevada, IA  
**WBCI Project #** 542

### I DESCRIPTION OF CHANGE:

Revised proposal to furnish and install new private well and associated utilities per RFP-09.

A time extension request is included to complete this work beyond the current contract completion dates. Dependant on approval and formal execution of a change order within 21 calendar days, we anticipate this work being completed by November 1st. We have included a time extension to extend project completion through the anticipated completion date of this work, however since a plant startup timeframe is still unknown, we anticipate a subsequent time extensions will be required. Supervision costs are included in this proposal for the anticipated duration of this additional work. Work is expected to commence approximately 6 weeks from receipt of Change Order.

### II SUMMARY OF DETAILED BREAKDOWN

	Additions	Deletions	Net Total
A. MATERIAL	\$5,400.00	\$0.00	\$5,400.00
B. LABOR	\$30,903.50	\$0.00	\$30,903.50
C. EQUIPMENT	\$0.00	\$0.00	\$0.00
D. OTHER COSTS	\$0.00	\$0.00	\$0.00
1. SAFETY	(1% of LABOR) - Deletion -0-		\$309.04
2. EXPENDABLE TOOLS	(2.5% of LABOR) - Deletion -0-		\$772.59
E. NET TOTAL	(A+B+C+D1+D2)		\$37,385.12
F. OVERHEAD AND PROFIT	(E x 15%) - Deletion -0-		\$5,607.77
G. TOTAL WORK PERFORMED BY CONTRACTOR	(Lines E + F)		\$42,992.89

### III CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS

Detailed Breakdowns and summaries from each contractor must be attached.

SUBCONTRACTOR: Firm Name	CONTRACT WORK: Description	PROPOSAL
1. MJ Oconnor	Plumbing	\$16,336.38
2. Larson Well Co	Well Install & Equipment	\$78,770.44
3. CEC Electric	Electrical	\$14,285.00
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
H. SUBTOTAL of all work performed by contractor's subcontractors		\$109,391.82
I. CONTRACTOR'S MARK-UP on work of subcontractors	(Line H x 5%)	\$5,469.59
J. TOTAL WORK PERFORMED BY SUBCONTRACTOR	(Lines H+I)	\$114,861.41
K. PROPOSAL	(Lines G+J)	\$157,854.30
L. SUPPLEMENTAL COSTS		
1. PER DIEM	(5% of LABOR)	\$1,545.18
2. TEMPORARY FACILITIES	(2.5% of LABOR)	\$772.59
M. BONDS	(2.8% of PROPOSAL)	\$4,419.92
N. BUILDER'S RISK INSURANCE	(2% of PROPOSAL)	\$3,157.09

### IV TOTAL PROPOSAL

O. TOTAL PROPOSAL for subject CMR increase-(decrease)-in contract amount	<b>\$167,749</b>
P. The work for this RFP will require and extension of time of <u>  383  </u> Calendar Days.	
Q. All costs are valid for 14 days.	

CONTRACTOR  
(SIGNATURE)..... Kurtis Knapp .....

Title: Project Manager

Date: 08/02/24

**Kurtis Knapp**



**WILLIAMS BROTHERS CONSTRUCTION, INC.**

BUILDING Nevada WWTF Phase 2  
LOCATION Nevada WWTF  
SHEET NO 1

GENERAL CONTRACTOR  
PEORIA, ILLINOIS

ESTIMATOR Kurtis Knapp  
CHECKER Joe W.  
DATE 2-Aug-24

DESCRIPTION OF WORK	NO PIECES	DIMENSIONS	EXTENSIONS		UNIT PRICE M'TL	TOTAL ESTIMATED MATERIAL COST	UNIT PRICE LABOR	TOTAL ESTIMATED LABOR COST
<b>RFP-09R2 Private Well &amp; Utilities</b>								
Re-Grade and restore site					2500.00		\$ 4,320.00	
Clean up							\$ 2,720.00	\$ 2,720.00
<b>Extended Job Costs</b>								
Superintendent			5	wk	<del>2500.00</del>	<del>2500.00</del>	\$ 3,836.70	\$ 19,183.50
Superintendent Truck			5	wk	\$ 280.00	\$ 1,400.00	<del>280.00</del>	<del>1,400.00</del>
Superintendent Truck - Gas			5	wk	\$ 400.00	\$ 2,000.00	<del>400.00</del>	<del>2,000.00</del>
Superintendent Phone			1.25	Mo	\$ 80.00	\$ 100.00	<del>80.00</del>	<del>100.00</del>
Temporary Toilets			1.25	Mo	\$ 80.00	\$ 100.00	<del>80.00</del>	<del>100.00</del>
<b>Extended Office Costs</b>								
Project Manager		20 Hour/wk	5	wk	<del>360.00</del>	<del>360.00</del>	\$ 1,800.00	\$ 9,000.00
Project Manager Phone			1.25	Mo	\$ 80.00	\$ 100.00	<del>80.00</del>	<del>100.00</del>
Project Manager Truck			5	wk	\$ 140.00	\$ 700.00	<del>140.00</del>	<del>700.00</del>
Project Manager Truck - Gas			5	wk	\$ 200.00	\$ 1,000.00	<del>200.00</del>	<del>1,000.00</del>
Job Support/Equipment			5	wk	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>
Accounting/Secretarial Staff			0	Mo	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>
Office Expenses			0	Mo	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>	<del>200.00</del>
Submittal Exchange			0	Mo	\$ 580.00	\$ -	<del>580.00</del>	<del>580.00</del>
Interest on Retained Funds			0	mo	\$ 7,500.00	\$ -	<del>7,500.00</del>	<del>7,500.00</del>
Builder's Risk Insurance			0	mo	\$ 3,300.00	\$ -	<del>3,300.00</del>	<del>3,300.00</del>
<b>Subtotals</b>						\$ 5,400.00		\$ 30,903.50

**LARSON WELL CO.**  
ROLAND, IOWA  
 WATER WELLS • PUMP SERVICE & REPAIR  
 IRON & ODOR REMOVAL • WATER CONDITIONING  
 www.LarsonWellCo.com  
 515-388-4732  
 PO BOX 388  
 Roland, IA 50236



**ESTIMATE ONLY - VALID FOR 30 DAYS**

November 29, 2023  
 Williams Brother Construction  
 Attn: Kurtis Knapp  
 PO Box 1366  
 Peoria, IL 61654  
[kurtis@wbci.us](mailto:kurtis@wbci.us)  
 (815) 878-4845

Jobsite:  
 City of Nevada Water Treatment Facility  
 62512 270th St  
 Nevada, IA 50201

**Descripton:**

7.5 HP 460V 3PH Motor, 45 GPM Pump End, 400' of 2"x20' 304 SS drop pipe, 19 - 2" SS Drop Pipe Couplings, 3 - 2" Check Valves, 6X7 baker pitless unit, connect existing 2" water line to pitless unit, PVC Adapter, 410' of 10-3 wg sub wire, splice kit, 2 - 2" SS Nipples, 1 - 7" well cap, 3 - ASME 407C pressure tanks, 1 - Pressure Gauge, 1 - Pressure Switch, 1 - Franklin Smart Starter, Misc Fittings, backhoe around well, labor, insurance, well startup and testing of amp balance and pump rotation.

Total: \$78,770.44

X \_\_\_\_\_ DATE: \_\_\_\_\_

I agree to the above estimate and wish to proceed with the project. Invoicing will take place upon completion and due upon receipt.

There will be a charge of the above rate per foot for any footage greater then the estimated depth. There will be a credit of the above rate per foot for any footage less than the estimated depth. There will be a minimum charge of 150ft.

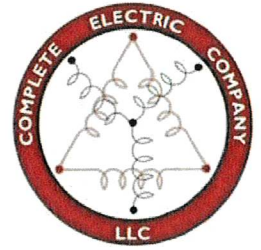
\*\*All depths/quantities are estimated and shown for budgeting purposes.

\*\*Exact depths/quantities will be used in billing.

\*\*Estimated cost does not include tax.

CEC Electric  
 3 4th St NW  
 Fort Dodge, IA 50501  
 +1 5155749613  
 cecelectric@outlook.com

# Estimate



**ADDRESS**  
 Williams Brothers  
 PO Box 1366  
 Peoria, Illinois 61654

**SHIP TO**  
 Williams Brothers  
 PO Box 1366  
 Peoria, Illinois 61654

ESTIMATE #	DATE	EXPIRATION DATE
2421	01/04/2024	02/04/2024

	DESCRIPTION	QTY	RATE	AMOUNT
<b>Labor</b>	RFP-09, installation of new well control panel in admin building on south wall of garage area. Connect pressure switch to well control panel with 3/4" EMT conduit and 3 #14, install new 3ph 480v 25amp breaker in P12 for well feed. Route 3/4" EMT conduit from P12 to well control panel and install 4#10 copper conductors. From well install 1-1/2 conduit underground to south side of building and penetrate wall above lower masonry wall and connect to well control panel. Install #10 copper building wire to well and make connections. Well pump to be wired with cable to accessible connection by other for EC connection.	1	9,360.00	9,360.00
<b>Material</b>	Materials include PVC, EMT, RMC conduit, uni-strut mounting hardware, copper building wire, conduit fittings, boxes, 3P 25A 35k 480v breaker, terminations, labels.  Well control panel, pressure switch, well pump power cord provided by others.	1	4,925.00	4,925.00

**TOTAL** **\$14,285.00**

Accepted By

Accepted Date

# Subcontractor's Summary

## RFP-09 Expansion Tank Piping

Trade: Mechanical  
 Sub's Name: M. J. O'Connor Mechanical  
 Project: Nevada WWTF  
 Date: July 22, 2024  
 Sales Tax %:

### Scope of Work Description:

**Furnish and install piping from the well piping in the building to the expansion tanks located on the Ad Min Mezzanine, core drill 4" hole in floor for pipe penetration and seal with Link Seal**  
 Insulate the piping  
 Install the pressure switch & pressure gauge provided by others  
 Move expansion tanks provided by others so we can hook up the piping

Scope of Work Description	Materials				Labor			Equipment			Total Cost	
	Item Description	Unit	Qty	Cost Per Unit	Total	Rate	# Man Hours	Total	Eq. Type	# Hrs.	Rate	Total
2" Apollo SWT LF Ball Valve	ea	2.00	\$241.76	\$483.52	\$145.00	1.230	\$178.35	\$0.00				\$661.87
2" swt tee	ea	2.00	\$29.93	\$59.86	\$145.00	2.286	\$331.47	\$0.00				\$391.33
2" swt 90	ea	10.00	\$16.94	\$169.40	\$145.00	7.270	\$1,054.15	\$0.00				\$1,223.55
2" x 3/4" swt tee	ea	2.00	\$22.61	\$45.22	\$145.00	1.334	\$193.43	\$0.00				\$238.65
3/4" swt x fip adapter	ea	2.00	\$3.34	\$6.68	\$145.00	0.942	\$136.59	\$0.00				\$143.27
3/4" x 1/2" thrd brass bushing	ea	2.00	\$3.37	\$6.74	\$145.00	0.450	\$65.25	\$0.00				\$71.99
2" swt copuling	ea	3.00	\$8.52	\$25.56	\$145.00	1.935	\$280.58	\$0.00				\$306.14
2" x 1 1/4" swt tee	ea	2.00	\$25.87	\$51.74	\$145.00	1.600	\$232.00	\$0.00				\$283.74
2" x 1 1/4" swt reducer	ea	1.00	\$12.61	\$12.61	\$145.00	0.571	\$82.80	\$0.00				\$95.41
1 1/4" Apollo SWT LF Ball Valve	ea	3.00	\$122.05	\$366.15	\$145.00	1.413	\$204.89	\$0.00				\$571.04
1 1/4" swt x mip adapter	ea	3.00	\$9.43	\$28.29	\$145.00	1.845	\$267.53	\$0.00				\$295.82
2" swt x mip adapter	ea	2.00	\$18.70	\$37.40	\$145.00	1.454	\$210.83	\$0.00				\$248.23
2" Type L Hard Copper Pipe	ft	60.00	\$15.09	\$905.40	\$145.00	12.000	\$1,740.00	\$0.00				\$2,645.40
1 1/4" Type L Hard Copper Pipe	ft	20.00	\$7.58	\$151.60	\$145.00	2.860	\$414.70	\$0.00				\$566.30
2" copper split rings	ea	10.00	\$2.20	\$22.00	\$145.00	2.500	\$362.50	\$0.00				\$384.50
Threaded rod, nuts, flat washers	ea	10.00	\$5.75	\$57.50	\$145.00	2.500	\$362.50	\$0.00				\$420.00
Core Drill	ea			\$0.00	\$145.00	3.000	\$435.00	\$0.00	Core Drill Machine	2.0	\$35.00	\$70.00
4" Core Drill bit	ea			\$0.00	\$145.00		\$0.00	\$0.00	4" Core Drill	2.0	\$25.00	\$50.00
LS-315-SS Link seal	ea	6.00	\$17.67	\$106.02	\$145.00	0.750	\$108.75	\$0.00				\$214.77
Tank insittlation				\$0.00	\$145.00	1.500	\$217.50	\$0.00				\$217.50
Pipe insulation	ea	1.00	\$620.00	\$620.00			\$0.00	\$0.00				\$620.00
Tank insulation	ea	1.00	\$2,485.00	\$2,485.00			\$0.00	\$0.00				\$2,485.00
Diesel	gal	20.00	\$4.00	\$80.00			\$0.00	\$0.00				\$80.00
Mob In				\$0.00	\$145.00	2.0	\$290.00	\$0.00				\$290.00
Mob Out				\$0.00	\$145.00	2.0	\$290.00	\$0.00				\$290.00
Travel				\$0.00	\$145.00	8.0	\$1,160.00	\$0.00				\$1,160.00
<b>Subtotals</b>				<b>\$5,720.69</b>		<b>59.4</b>	<b>\$8,618.80</b>	<b>\$0.00</b>		<b>4.0</b>		<b>\$120.00</b>
												<b>Taxes</b>
												<b>15%</b>
												<b>10%</b>
												<b>Total Cost</b>
												<b>\$14,459.49</b>
												<b>\$0.00</b>
												<b>\$1,292.82</b>
												<b>\$584.07</b>
												<b>\$16,336.38</b>



**SCHIMBERG CO.**

DES MOINES  
4060 Dixon St.  
Des Moines, IA 50313  
Ph: 515-380-7805  
FAX: 515-266-0699  
www.schimberg.com

PHONE: (507) 433-5017  
EMAIL: ABURKLE@schimberg.com

**PRICE QUOTATION**

Quote Date	07/22/2024
Quote Number	6080373-00
Quote Expiration Date	07/29/2024
Writer	ALEX BURKLE
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	167.44
Freight Terms	Full Freight Allowed
Placed By	MICK

Bill To 8041	MJ O'CONNOR INC PO BOX 606 AUSTIN, MN 55912 US
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Ship To 2000	NEVADA WWTP 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
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Notes

Terms	Req Ship Date	Ship Point	Ship Via
NET 30 DAYS	07/22/2024	SCHIMBERG DES MOINES	S CO TRUCK

Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
1		42772020200 APOL 77CLF20801A BR FP CXC 2	2	EA	241.76	483.52
2		65061100200 COP W TEE #611 2	2	EA	29.93	59.86
3		65060700200 COP W 90 ELL #607 2	10	EA	16.94	169.40
4		65061100236 COP W TEE #611 2X3/4	2	EA	22.61	45.22
5		65060300075 COP W FEM ADP #603 3/4	2	EA	3.34	6.68
6		61060020092 RB BUSH 3/4X1/2	2	EA	3.37	6.74
7		65060000200 COP W CPLG #600 2	3	EA	8.52	25.56
8		65061100240 COP W TEE #611 2X1-1/4	1	EA	25.87	25.87
9		42772020125 APOL 77CLF20601A BR FP CXC 1-1/4	3	EA	122.05	366.15
10		65060400125 COP W ML ADP #604 1-1/4	3	EA	9.43	28.29
11		65060400200 COP W ML ADP #604 2	2	EA	18.70	37.40
12		60202010200 COPPER L HARD 2X20	60.0	FT	15.09	905.40
13		60202010125 COPPER L HARD 1-1/4X20	20.0	FT	7.58	151.60
14		18479900200 GRIN GCT138R COP STANDOFF 2	10	EA	2.20	22.00
15						
16						





**PRICE QUOTATION**



**SCHIMBERG CO.**

**DES MOINES**  
 4060 Dixon St.  
 Des Moines, IA 50313  
 Ph: 515-380-7805  
 FAX: 515-266-0699  
 www.schimberg.com

**PHONE:** (507) 433-5017  
**EMAIL:** ABURKLE@schimberg.com

Quote Date	07/22/2024
Quote Number	6080373-00
Quote Expiration Date	07/29/2024
Writer	ALEX BURKLE
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	167.44
Freight Terms	Full Freight Allowed
Placed By	MICK

Bill To 8041	MJ O'CONNOR INC PO BOX 606 AUSTIN, MN 55912 US
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Ship To 2000	NEVADA WWTP 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
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Notes

Terms	Req Ship Date	Ship Point	Ship Via
NET 30 DAYS	07/22/2024	SCHIMBERG DES MOINES	S CO TRUCK

Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
--------	----	-----------------------------	------------------	--------	-----------	-----------

16 Lines Total

**SALES PERSON CONTACT INFORMATION**  
 ALEX BURKLE  
 ABURKLE@schimberg.com

Total	2,333.69
Taxes	0.00
Quote Total	2,333.69

If "ns" is indicated in the "ns" column or any part number beginning with an "n" or "w" is non-stock material and subject to manufacturers restock & return freight charges.

---The prices quoted are subject to inventory availability and changes in raw material costs.---

---Jobs with multiple shipments or a duration of more than 30 days must be authorized in advance.---

Customer Copy



6080373-00

# PRICE QUOTATION



**SCHIMBERG CO.**

**DES MOINES**  
 4060 Dixon St.  
 Des Moines, IA 50313  
 Ph: 515-380-7805  
 FAX: 515-266-0699  
 www.schimberg.com

**PHONE:** (507) 433-5017  
**EMAIL:** MCHANDLER@schimberg.com

Quote Date	07/22/2024
Quote Number	6080361-00
Quote Expiration Date	07/29/2024
Writer	MATT CHANDLER
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	.68
Freight Terms	SchimbergTruck
Placed By	mick

Bill To 8041	MJ O'CONNOR INC PO BOX 606 AUSTIN, MN 55912 US
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Ship To 2000	NEVADA WWTP 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
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Notes

Terms	Req Ship Date	Ship Point	Ship Via
NET 30 DAYS	07/22/2024	SCHIMBERG DES MOINES	S CO TRUCK

Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
1		65060000240 COP W CPLG #600 2X1-1/4	1	EA	12.61	12.61
2		65060020240 COP W BUSH #600-2 2X1-1/4	1	EA	13.21	13.21

2 Lines Total

**SALES PERSON CONTACT INFORMATION**  
 MATT CHANDLER  
 MCHANDLER@schimberg.com

Total 25.82  
 Taxes 0.00  
 Quote Total 25.82

If "ns" is indicated in the "ns" column or any part number beginning with an "n" or "w" is non-stock material and subject to manufacturers restock & return freight charges.

---The prices quoted are subject to inventory availability and changes in raw material costs.---  
 ---Jobs with multiple shipments or a duration of more than 30 days must be authorized in advance.---  
 Customer Copy



6080361-00

**PRICE QUOTATION**



**SCHIMBERG CO.**

**DES MOINES**  
 4060 Dixon St.  
 Des Moines, IA 50313  
 Ph: 515-380-7805  
 FAX: 515-266-0699  
 www.schimberg.com

**PHONE:** (507) 433-5017  
**EMAIL:** MCHANDLER@schimberg.com

Quote Date	07/22/2024
Quote Number	6080365-00
Quote Expiration Date	07/29/2024
Writer	MATT CHANDLER
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	1.8
Freight Terms	SchimbergTruck
Placed By	mick

<b>Bill To</b> 8041	<b>MJ O'CONNOR INC</b> PO BOX 606 AUSTIN, MN 55912 US
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<b>Ship To</b> 2000	<b>NEVADA WWTP</b> 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
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Notes

<b>Terms</b> NET 30 DAYS	<b>Req Ship Date</b> 07/22/2024	<b>Ship Point</b> SCHIMBERG DES MOINES	<b>Ship Via</b> S CO TRUCK
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Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
1		90100000315 SS 316 INSUL LN SEAL 315	6	EA	17.67	106.02

1 Lines Total

**SALES PERSON CONTACT INFORMATION**  
 MATT CHANDLER  
 MCHANDLER@schimberg.com

<b>Total</b>	106.02
<b>Taxes</b>	0.00
<b>Quote Total</b>	106.02

If "ns" is indicated in the "ns" column or any part number beginning with an "n" or "w" is non-stock material and subject to manufacturers restock & return freight charges.

---The prices quoted are subject to inventory availability and changes in raw material costs.---  
 ---Jobs with multiple shipments or a duration of more than 30 days must be authorized in advance.---

Customer Copy



6080365-00

**mick@mjoconnorinc.com**

---

**From:** Todd Lampe <todd.l@iowainsulation.com>  
**Sent:** Monday, July 22, 2024 12:30 PM  
**To:** mick@mjoconnorinc.com  
**Subject:** Re: Nevada WWTF RFP-09

Mick

We took a material increase since then so the new pricing would be \$620.00 for the piping and \$2485.00.

Thanks

On Mon, Jul 22, 2024 at 12:10 PM <[mick@mjoconnorinc.com](mailto:mick@mjoconnorinc.com)> wrote:

Todd,

The City and Engineer have finally made a decision on the expansion tanks and piping at the Nevada WWTF, are your numbers still good or do you need to update them. They have asked for my updated number by tomorrow. I received the email at 9:47 this morning.

Thanks,

Mick O'Connor

Vice President

M. J. O'Connor Mechanical



1507 14<sup>th</sup> St NE

Austin MN 55912

P: 507-433-5017

F: 507-433-2270

C: 507-438-1743



# RFP No. 09

Request For Proposal

## HRGreen

5525 Merle Hay Road, Suite 200  
Johnston, IA 50131  
(515) 278-2913 Fax (713) 965-0044

<b>PROJECT:</b> Nevada WWTF Improvements – Phase 2 Nevada, Iowa	<b>RFP Requested by:</b>	
	Engineer	<input checked="" type="checkbox"/>
<b>TO CONTRACTOR:</b> Williams Brothers Construction Inc. PO Box 1366 Peoria, Illinois 61654	Owner	<input checked="" type="checkbox"/>
	Other	<input type="checkbox"/>
	Date Issued	10/17/23

RFP is in Reference to:	
PCO	<input type="checkbox"/>
RFI	<input type="checkbox"/>
FO	<input type="checkbox"/>
Other	<b>Private Well installation</b>

REGARDING/REFERENCE: Private well buildout – Well equipment, electrical, and plumbing furnish & installation

REQUESTED CHANGE:

### Well Equipment

Note – HRG has worked with Larson Well to size and specify well equipment to meet the potable demand needs for the WWTF. Contact information for Lason Well is as follows:

Larson Well Co., LLC  
P.O. Box 388  
Roland, IA 50236  
Ph: 515-388-4732  
Riley Larson: riley@larsondrilling.com  
Jarred Kepley: jarred@larsonwellco.com

Have well contractor furnish and install the following items:

- Well Pump:
  - Goulds Model 45GS75
  - Motor cables to be installed during pump install to pitless unit. Coordinate with electrical sub.
- Pitless Unit: Connected to existing Casing that was previously installed by Larson Well
  - Outlet to be 2" NPT with coupling for connection to buried piping (see below)
- 2" SST drop pipe for a 400-foot well setting depth
- 2" Inline column check valve
- Short section of buried 2" PVC piping (match existing) to connect new pitless unit outlet to existing buried well piping.
- Pressure test, disinfect, and sample new well and new piping

- Pressure Tanks (furnish only, installed by others): Three (3) Amtrol WX-407C tanks (see attached)
- Pressure Gauges and Switches (furnish only, installed by others):
  - Local gauge on piping supplying the pressure tanks
    - 4.5-inch diameter face, liquid-filled, 0-150 PSI range
  - Pressure switch: Square D/Pumptrol Part number: 9013FYG59J25T, or equal
- Well Controller (furnish only, installed by others): Franklin Electric SmartStart pump
  - See attached Installation & Operation Guide
  - Include main circuit breaker disconnect switch option
- Well startup/commissioning
- Operation and Maintenance Manual for the following:
  - Well Pump
  - Pressure Tanks
  - Well Controller
  - Gauges and Switches

#### Electrical

- See attached sheet E.121 markups.
- Provide Unistrut supports/rack to mount/install well control panel.
- Install electrical per specifications

#### Mechanical/Plumbing

- See attached sheet M.121 and M.123 markups
- See attached general schematic.
- Install pipe insulation on CW per specifications
- Support plumbing piping and equipment per specifications

This RFP is requested for a proposal to changes in the Work as indicated above. Contractor is requested to submit a Proposed Change Order (PCO) along with any supporting documentation such as breakdown of cost and/or material.

If you have any questions regarding this RFP, please contact Michael Roth at 515-657-5304.

---

**Michael Roth, P.E.**  
**Project Manager**



# WELL-X-TROL®

Diaphragm Well Tanks: WX-100C-DD and WX-400C Series ASME

**150 PSIG Working Pressure**

## Construction

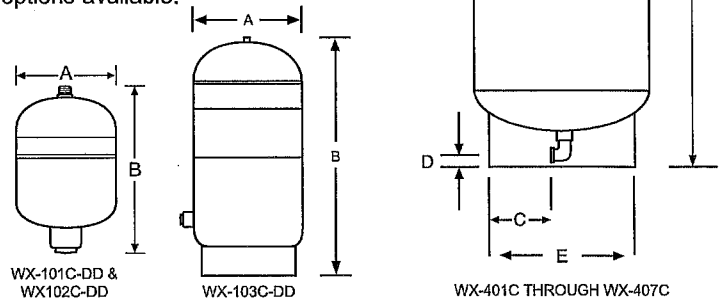
Shell	ASME Approved Steel
Diaphragm	Heavy Duty Butyl
Liner	Antimicrobial Polypropylene w/ Anti-Legionella Protection
System Connection	Stainless Steel (NPTM) WX-101C-DD through WX-103C-DD Malleable Iron (NPTF) WX-401C through WX-407C
Finish	Red Oxide Primer
Water Circulator	Turbulator®
Air Valve	Schrader Valve w/EPDM Seat
Factory Precharge	25 PSIG (1.7 bar)

## Performance

Maximum Operating Temperature	200°F (93°C)
Maximum Working Pressure	150 PSIG (10.3 bar)
Warranty	1-Year

## Application

- For use in commercial well water and booster pump systems.
- Fixed diaphragm construction.
- Designed and constructed per ASME Code Section VIII, Division 1.
- Tested to JIS Z 2801 for reduction of Legionella, Staphylococcus and E. coli.
- Follows ASHRAE 188 Anti-Legionella guidelines.
- Sight glass and seismic restraint options available.



## ASME Models

Model Number	Tank Volume		Max. Accept. Volume		A Tank Height		B Tank Diameter		C Sys. Conn. Inset		D Sys. Conn. Centerline		E Stand Diameter		System Conn.	Shipping Weight	
	Gal.	Lit.	Gal.	Lit.	In	mm	In	mm	In	mm	In	mm	In	mm	In	Lbs	Kg
WX-101C-DD	2.0	8	.9	3.5	14	356	8	203	-	-	-	-	-	-	¾ NPTM	10	5
WX-102C-DD	6.4	24	3.2	12	18	457	12	305	-	-	-	-	-	-	¾ NPTM	26	12
WX-103C-DD	8.6	33	3.2	12	22	559	12	305	-	-	-	-	10¾	273	¾ NPTM	36	16
WX-401C	18	68	11	42	31	787	16	406	5	124	1½	38	12¾	324	1 NPTF	96	44
WX-402C	25	95	11	42	40	1016	16	406	5	124	1½	38	12¾	324	1 NPTF	113	51
WX-403C	34	129	11	42	49	1245	16	406	5	124	1½	38	12¾	324	1 NPTF	120	54
WX-404C	68	258	34	129	48	1219	24	610	6	159	1¾	41	16	406	1¼ NPTF	232	105
WX-405C	90	341	34	129	59	1499	24	610	6	159	1¾	41	16	406	1¼ NPTF	255	116
WX-406C	110	417	34	129	70	1778	24	610	6	159	1¾	41	16	406	1¼ NPTF	335	152
WX-407C	132	500	46	175	57	1448	30	762	10	254	1¾	44	24	610	1¼ NPTF	450	204

All dimensions and weights are approximate.

Job Name \_\_\_\_\_ Notes \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

P.O. No. \_\_\_\_\_

Sales Rep. \_\_\_\_\_

Model No. \_\_\_\_\_





# 2347288602G – 4C3F(7.5HP,460/380,60/50,W)

The Franklin 4-inch Super Stainless motor has been the driving force behind residential and light commercial submersible pumps for decades. Designed and patented in 1950 by our founder, Ed Schaefer, this motor has proven to be the industry's most trusted residential pump motor. Franklin offers 4-inch motors in a full line of single- and three-phase voltages, frequencies, and application-specific models. Wherever there is an independent source of clean groundwater, you can find a Franklin motor.

Item: 2347288602G

Model: 4C3F(7.5HP,460/380,60/50,W)

Type Water Well

## Ratings

HP	7.5 hp
Frequency	50/60 Hz
Phases	Three-Phase
Amps - Full Load	10.9 A
Volts	380 VAC / 400 VAC / 415 VAC / 460 VAC
Voltage Tolerance (%)	-10.0% / +10.0%
Wire	3-Wire
Lead Length	8 ft
Motor	Submersible
Continuous Duty	Yes
Lead Wire Size	AWG #14
Lead Retainer Method	Clamp Style
Motor Insulation Classification	B
Poles	2
S.F.	1.15
HP	7.5 hp
Lead	Yes
Service Factor - 50Hz	1
Motor Ambient Temperature Rating Nominal	86 °F
Thrust Bearing Rating @ 89 F, 30 C	1500 lb
Rotation	Counter clockwise facing the shaft

## Materials of Construction

Thrust Bearing	Kingsbury
Seal	Lip Seal Ring
Diaphragm Material	Nitrile Rubber (NBR)
Motor Fill Solution (Water Soluble / Non Toxic)	YES
Motor Fill Solution	Water + Propylene Glycol
Motor Top End Bell Material	304SS Cover painted cast iron
Shaft Slinger Material	No
Stator Fill	Resin
Stator/ Motor Shell Material	Stainless Steel
Winding Material	Copper

## Dimensions

Motor Length	29.18 "
Product Weight	71 lb
Product Weight with Pack	71 lb
Shaft End	Spline

## Other

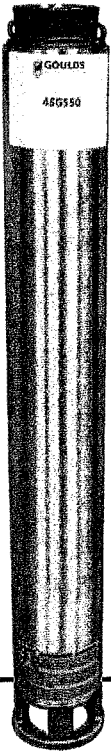
Drinking Water Agency Approvals	ANSI/NSF Standard 61
Warranty Standard Time	12 Mo. from Date of Install / 24 Mo. from Date of Manufacturing
Applications	These motors are built for dependable operation in 4" diameter or larger water wells.



**xylem**  
Let's Solve Water

**TECHNICAL BROCHURE**

B35-85GS R2



**e-GS**

**35GS, 45GS, 65GS & 85GS**

35-85 GPM 1-10HP, 60 HZ, SUBMERSIBLE PUMPS



 **GOULDS**  
WATER TECHNOLOGY  
a xylem brand

### FEATURES

**Powered for Continuous Operation:** All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.

**Field Serviceable:** Units have left hand threads and are field serviceable with common tools and readily available repair parts.

**Sand Handling Design:** Our face clearance, floating impeller stack has proven itself for over 50 years as a superior sand handling, durable pump design.

**FDA Compliant Non-Metallic Parts:** Impellers, diffusers and bearing spiders are constructed of glass filled engineered composites. They are corrosion resistant and non-toxic.

**Discharge Head/Check Valve:** Cast 303 stainless steel for strength and durability. Two cast-in safety line loops for installer convenience. The built-in check valve is constructed of stainless steel and FDA compliant BUNA rubber for abrasion resistance and quiet operation.

**Motor Adapter:** Cast 303 stainless steel for rigid, accurate alignment of pump and motor. Easy access to motor mounting nuts using standard open end wrench.

**Stainless Steel Casing:** Polished stainless steel is strong and corrosion resistant.

**Hex Shaft Design:** Six sided shafts for positive impeller drive.

**Engineered Polymer Bearings:** The proprietary, engineered polymer bearing material is strong and resistant to abrasion and wear. The enclosed upper bearing is mounted in a durable glass filled engineered composite bearing spider for excellent abrasion resistance.

# Goolds Water Technology

## Residential Water Systems

### WATER END DATA

Series	Model	Required HP	Stages	Water End	
				Length (in)	Weight (lbs)
35GS	35GS10	1	6	14.2	8
	35GS15	1.5	8	16.6	9
	35GS20	2	10	19.1	10
	35GS30	3	14	24.0	13
	35GS50	5	23	36.4	20
	35GS75	7.5	36	53.0	28
	35GS100	10	46	65.2	34
45GS	45GS15	1.5	5	12.9	8
	45GS20	2	7	15.4	9
	45GS30	3	10	19.0	10
	45GS50	5	17	27.7	15
	45GS75	7.5	25	38.9	21
	45GS100	10	34	50.6	27
65GS	65GS15	1.5	6	19.1	10
	65GS20	2	7	21.2	11
	65GS30	3	10	27.4	12
	65GS50	5	16	41.2	18
	65GS75	7.5	26	62.3	35
	65GS100	10	33	76.8	42
85GS	85GS30	3	8	29.4	13
	85GS50	5	14	42.8	18
	85GS75	7.5	21	63.8	35
	85GS100	10	27	79.9	41

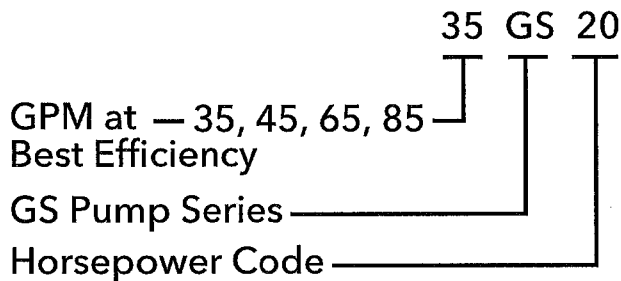
### SPECIFICATIONS

Model	Flow Range GPM	Horse-Power Range	Best Efficiency GPM	Discharge Connection	Minimum Well Size	Rotation
35GS	10-50	1.0 - 10	35	2"	4"	CCW
45GS	20 - 65	1.5 - 10	45	2"	4"	CCW
65GS	30 - 80	1.5 - 10	65	2"	4"	CCW
85GS	40 - 120	3.0 - 10	85	2"	4"	CCW

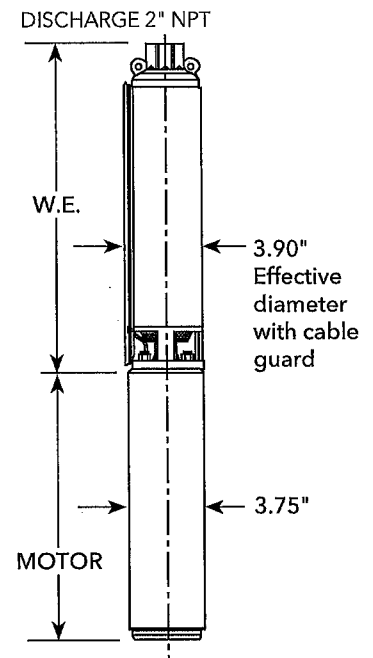
### "GS" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Discharge Head	AISI 303 SS
Check Valve Poppet	AISI 303 SS
Check Valve Seal	BUNA, FDA Compliant
Check Valve Seat	AISI 304 SS
Check Valve Retaining Ring	AISI 302 SS
Bearing Spider - Upper	Glass filled engineered composite
Bearing	Proprietary Engineered Polymer
Klipring	AISI 301 SS
Diffuser	Glass filled engineered composite
Impeller	Glass filled engineered composite
Bowl	AISI 304 SS
Intermediate Sleeve*	AISI 304 SS, Powder Metal
Intermediate Shaft Coupling*	AISI 304 SS, Powder Metal
Intermediate Bearing Spider*	Glass filled engineered composite
Intermediate Bearing Spider*	AISI 303 SS
Shim	AISI 304 SS
Screws - Cable Guard	AISI 304 SS
Motor Adapter	AISI 303 SS
Casing	AISI 304 SS
Shaft	17-4 PH Stainless Steel
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS
Suction Screen	AISI 304 SS

### NOMENCLATURE - SOLD AS WATER ENDS ONLY



10 = 1	50 = 5
15 = 1 1/2	75 = 7 1/2
20 = 2	100 = 10
30 = 3	



## Residential Water Systems

### CENTRIPRO 4" SINGLE-PHASE MOTORS

Order No.	Type	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M10422	2-wire PSC	1	230	13.3 (337)	24.5 (11.1)
M15422		1.5		14.9 (378)	28.9 (13.1)
M10412	3-wire	1	230	11.7 (297)	23.1 (10.5)
M15412		1.5		13.6 (345)	27.4 (12.4)
M20412		2		15.1 (383)	31.0 (14.1)
M30412		3		18.3 (466)	40.0 (18.1)
M50412		5		27.7 (703)	70.0 (31.8)

### CENTRIPRO 4" THREE-PHASE MOTORS

Order No.	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M10430	1	200	11.7 (297)	22 (10.4)
M15430	1.5		11.7 (297)	22 (10.4)
M20430	2		13.8 (351)	28 (12.7)
M30430	3		15.3 (389)	32 (14.5)
M50430	5		21.7 (550)	55 (24.9)
M75430	7.5		27.7 (703)	70 (31.8)
M10432	1	230	11.7 (297)	23 (10.4)
M15432	1.5		11.7 (297)	23 (10.4)
M20432	2		13.8 (351)	28 (12.7)
M30432	3		15.3 (389)	32 (14.5)
M50432	5		21.7 (550)	55 (24.9)
M75432	7.5		27.7 (703)	70 (31.8)
M10434	1	460	11.7 (297)	23 (10.4)
M15434	1.5		11.7 (297)	23 (10.4)
M20434	2		13.8 (351)	28 (12.7)
M30434	3		15.3 (389)	32 (14.5)
M50434	5		21.7 (550)	55 (24.9)
M75434	7.5		27.7 (703)	70 (31.8)
M100434	10		-	-
M15437	1.5	575	11.7 (297)	23 (10.4)
M20437	2		15.3 (389)	32 (14.5)
M30437	3		15.3 (389)	32 (14.5)
M50437	5		27.7 (703)	70 (31.8)
M75437	7.5		27.7 (703)	70 (31.8)

### NEMA MOTOR

- Corrosion resistant stainless steel construction.
- Built-in surge arrester is provided on single phase motors through 5 HP.
- Stainless steel splined shaft.
- Hermetically sealed windings.
- Replaceable motor lead assembly.
- NEMA mounting dimensions.
- Control box is required with 3 wire single phase units.
- Three phase units require a magnetic starter with three leg Class 10 overload protection.

### AGENCY LISTINGS



CentriPro Motor - tested to UL778 and CAN 22.2 by CSA International (Canadian Standards Association)



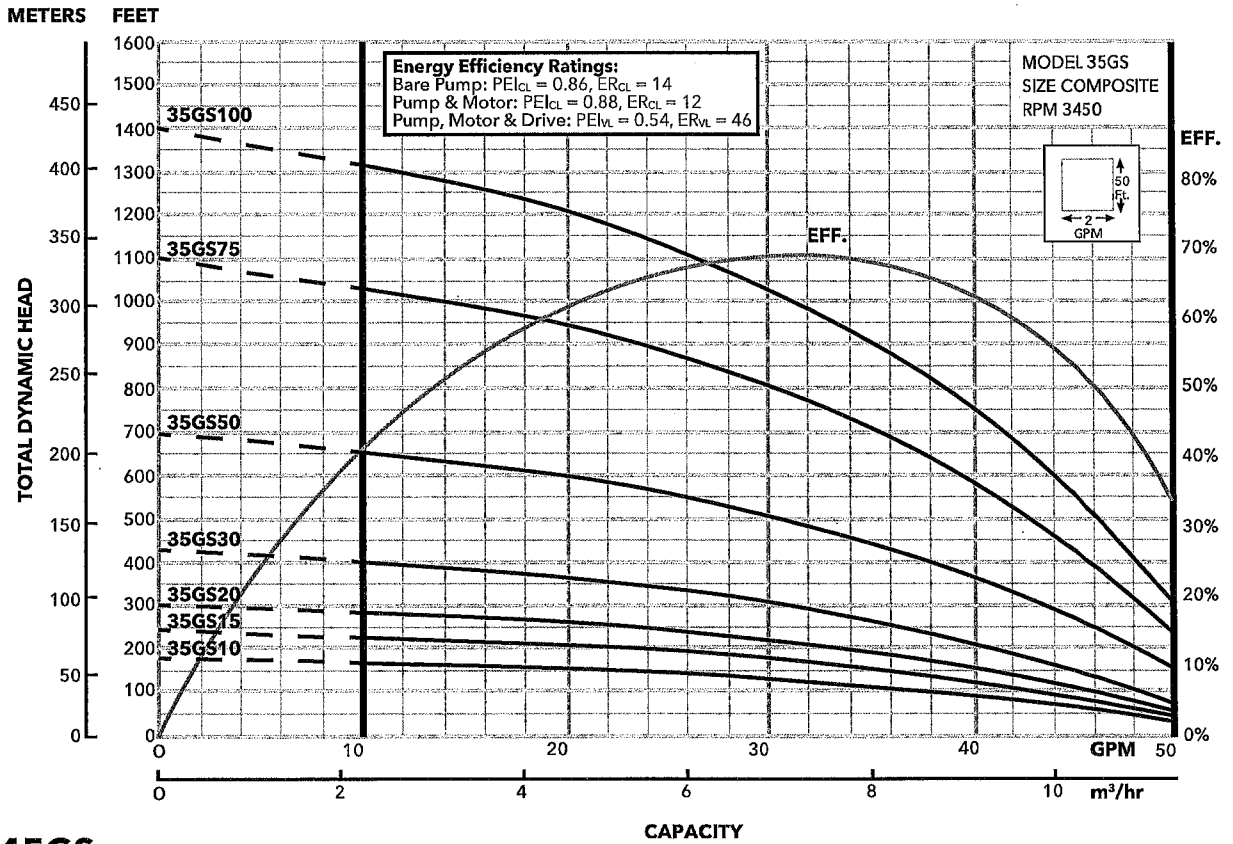
CentriPro Motor - Certified to NSF/ANSI 61, Annex G, Drinking Water System Components 4P49



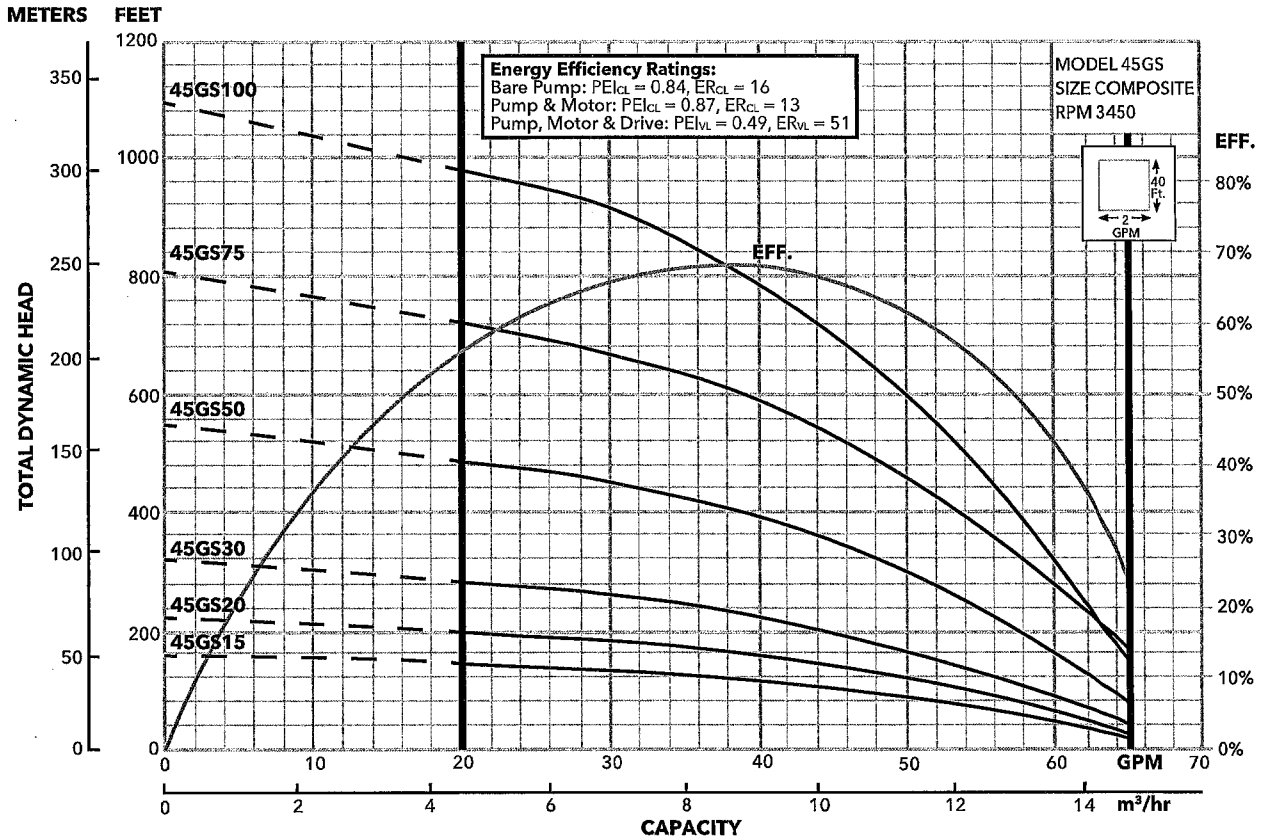
NSF/ANSI 372 - Drinking Water System Components - Lead Content

**CLASS 6853 01** - Low Lead Content Certification Program -- Plumbing Products

### Model 35GS



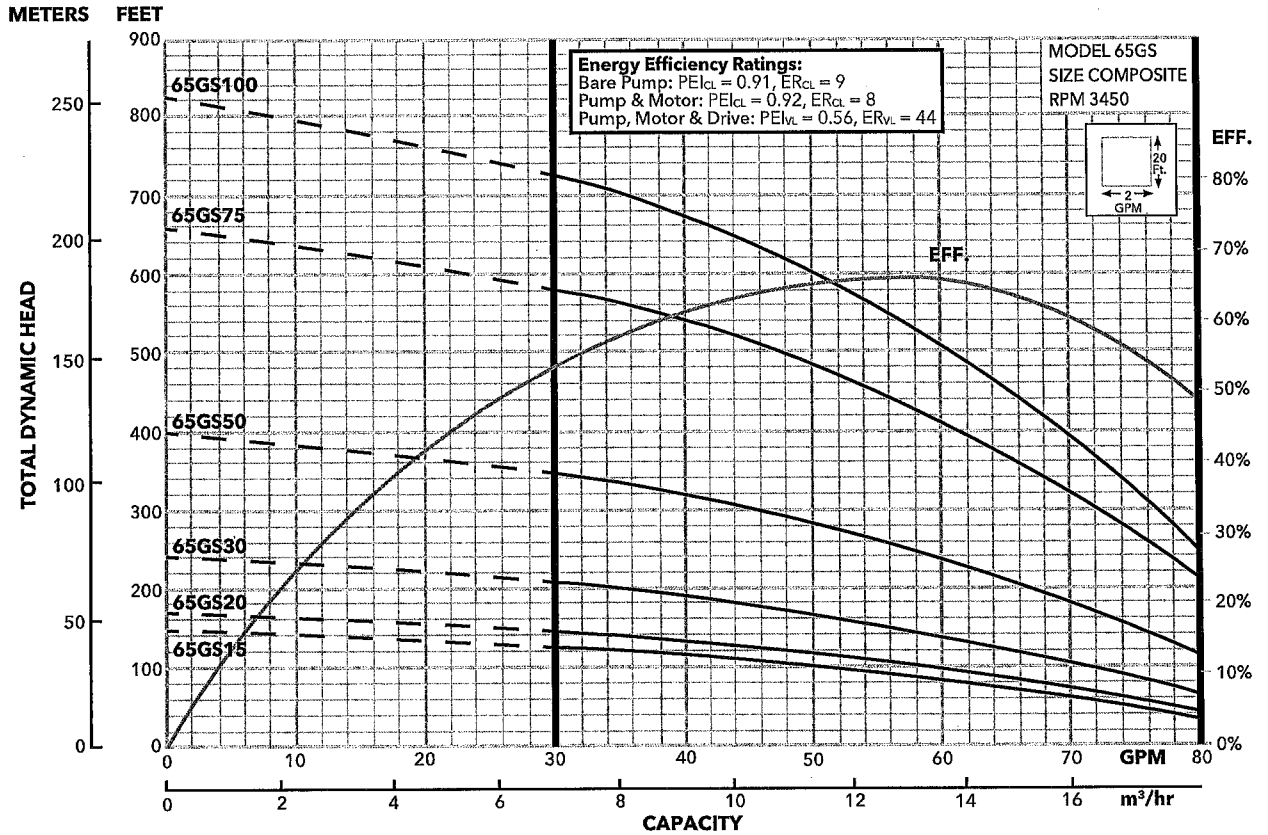
### Model 45GS



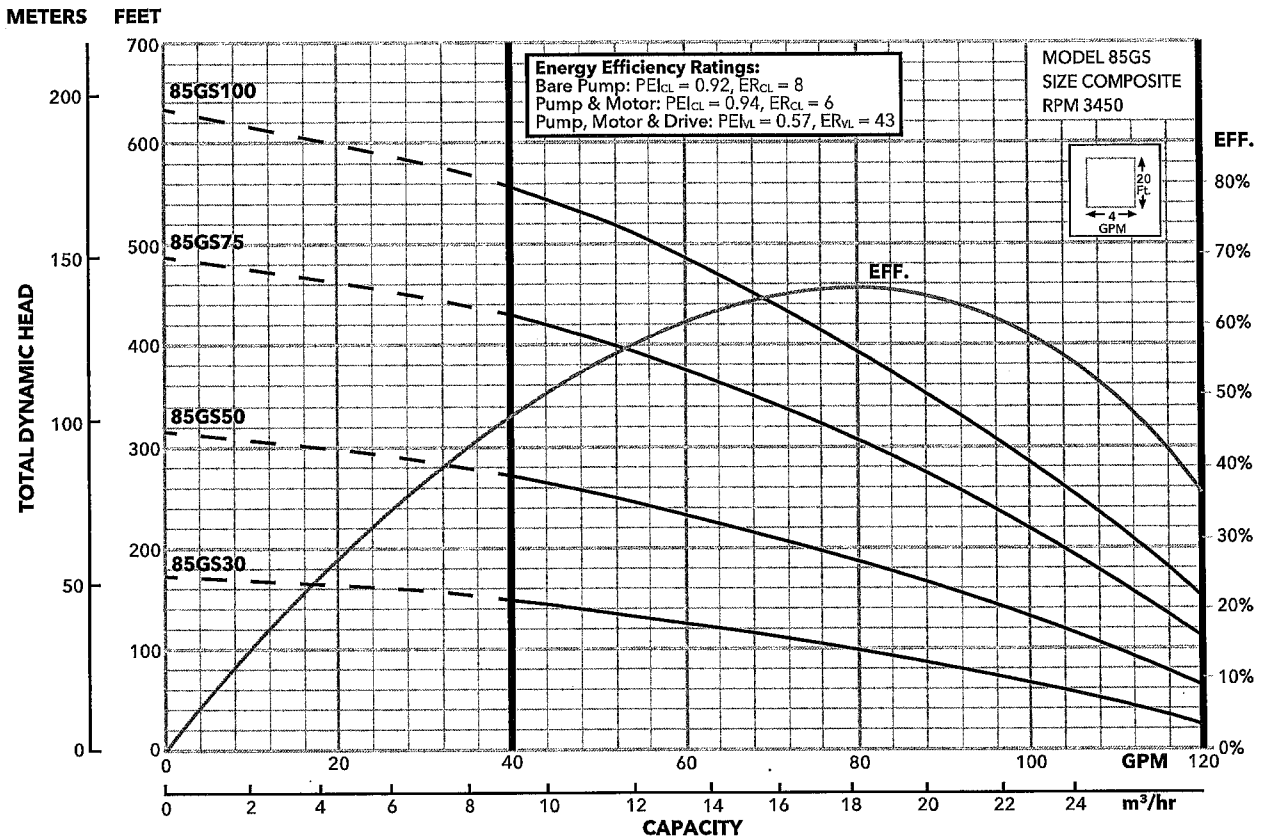
# Goolds Water Technology

Residential Water Systems

## Model 65GS



## Model 85GS



# Goolds Water Technology

## Residential Water Systems

### MODEL 35GS

#### SELECTION CHART

Horsepower Range 1 - 3, Recommended Range 10 - 50 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																												
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	520	560	600		
35GS10	1	0		49	46	42	38	33	26	15																					
		20	44	40	36	31	23	11																							
		30	40	36	30	22																									
		40	35	29	20																										
		50	28	18																											
		60	16																												
Shut-off PSI			69	60	52	43	34	26	17	8																					
35GS15	1½	0			48	46	43	40	37	33	29	23	14																		
		20	47	45	43	39	36	32	28	21	10																				
		30	45	42	39	35	32	27	19																						
		40	42	38	35	31	26	18																							
		50	38	34	30	25	16																								
		60	34	29	24	15																									
Shut-off PSI			97	88	79	71	62	53	45	36	27	19	10																		
35GS20	2	0			50	48	46	44	42	39	37	34	30	26	20	12															
		20	49	47	45	43	41	38	36	33	29	24	17																		
		30	47	45	43	40	38	35	32	28	23	16																			
		40	44	42	40	38	35	32	27	22	15																				
		50	42	40	37	34	31	27	21	14																					
		60	39	37	34	30	26	20	12																						
Shut-off PSI			123	114	105	97	88	79	71	62	53	45	36	27	19	10															
35GS30	3	0				50	48	47	45	44	42	41	39	38	36	34	31	28	25	21	16	10									
		20		49	48	46	45	43	42	40	39	37	35	33	30	27	23	18	14												
		30	49	47	46	45	43	42	40	39	37	35	33	30	27	23	18	13													
		40	47	46	44	43	41	40	38	37	35	32	30	26	22	18	12														
		50	46	44	43	41	40	38	36	34	32	29	26	22	17	11															
		60	44	42	41	39	38	36	34	31	29	25	21	16	10																
Shut-off PSI			176	168	159	150	142	133	124	116	107	98	90	81	72	64	55	46	38	29	20	12									

Horsepower Range 5-10, Recommended Range 10 - 50 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
35GS50	5	0				50	48	46	43	41	38	35	31	26	19	11														
		20		50	48	46	44	41	38	35	31	26	20	12																
		30		49	47	45	42	40	37	33	29	24	16																	
		40	50	48	46	44	41	38	35	31	27	20	12																	
		50	49	47	45	43	40	37	34	29	24	17																		
			48	46	44	41	39	35	32	27	21	13																		
Shut-off PSI			280	259	237	215	194	172	150	129	107	85	64	42																
35GS75	7½	0					50	48	47	46	44	43	41	39	37	35	33	30	27	24	19	14								
		20				50	49	47	46	44	43	41	39	37	35	33	31	28	24	20	14									
		30			50	49	48	47	45	44	42	40	38	37	34	32	29	26	22	17	12									
		40			50	49	47	46	44	43	41	39	38	36	33	31	28	24	20	15										
		50		50	49	48	47	45	44	42	40	39	37	35	32	30	26	22	18	12										
				50	49	47	46	45	43	41	40	38	36	34	31	28	25	20	15											
Shut-off PSI			453	431	410	388	366	345	323	301	280	258	236	215	193	171	150	128	106	85	63	42								
35GS100	10	0						49	48	47	46	45	44	42	41	40	38	37	35	33	31	29	26	24	20	16	11			
		20						49	48	47	46	45	44	42	41	40	38	37	35	33	31	29	27	24	20	16	12			
		30						49	48	47	46	45	44	43	42	40	39	38	36	34	32	30	28	25	22	19	14			
		40						49	48	47	46	45	44	43	41	40	38	37	35	34	32	29	27	24	21	17	12			
		50						49	48	47	46	44	43	42	41	39	38	36	34	33	31	28	26	23	19	15	10			
							49	48	47	46	45	44	43	41	40	39	37	35	34	32	30	27	24	21	17	13				
Shut-off PSI			583	561	540	518	496	475	453	431	410	388	366	345	323	302	280	258	237	215	193	172	150	128	107	85	63	42		

## Residential Water Systems

### MODEL 45GS

#### SELECTION CHART

Horsepower Range 1½ - 5, Recommended Range 20 - 65 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480	520	560	600	640		
45GS15	1½	0	64	61	57	52	46	37	23																					
		20	55	50	44	34																								
		30	49	43	32																									
		40	41	30																										
		50	27																											
		60																												
Shut-off PSI			61	52	44	35	26	18	9																					
45GS20	2	0		62	60	57	53	49	45	40	32																			
		20	59	56	52	48	43	38	28																					
		30	55	51	47	43	36	26																						
		40	51	47	42	35	25																							
		50	46	41	34	22																								
		60	40	46	37	38	28	29																						
Shut-off PSI			88	80	71	63	54	45	37	28	19																			
45GS30	3	0		65	62	60	59	56	53	50	47	45	41	37	30	21														
		20	62	60	58	55	52	49	47	44	40	35	28																	
		30	60	58	55	52	49	46	43	39	34	26																		
		40	57	54	51	49	46	42	38	33	25																			
		50	54	51	48	45	42	38	32	23																				
		60	51	48	45	41	37	31	22																					
Shut-off PSI			130	121	113	104	95	87	78	69	61	52	43	35	26	17														
45GS50	5	0				65	63	62	61	60	59	58	56	55	53	51	50	48	46	44	42	39	32	22						
		20		64	63	61	60	59	58	57	56	54	53	51	49	47	46	43	41	38	35	31	20							
		30	64	62	61	60	59	58	57	55	54	52	51	49	47	45	43	41	38	34	30	25								
		40	62	61	60	59	58	57	55	54	52	50	49	47	45	43	40	37	33	29	24									
		50	61	60	59	58	56	55	53	52	50	48	47	45	42	40	37	33	28	23										
		60	60	59	58	56	55	53	52	50	48	46	44	42	39	36	32	28	22											
Shut-off PSI			228	220	211	202	194	185	176	168	159	150	142	133	124	116	107	98	90	81	72	64	46	29						

Horsepower Range 7½ - 10, Recommended Range 20-65 GPM, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			40	80	120	160	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800	840	880	920	960	1000	1040		
45GS75	7½	0					63	62	60	58	56	53	51	48	46	43	39	34	28	21										
		20				63	61	60	57	55	53	50	48	45	42	38	33	27	19											
		30			64	62	60	58	56	54	51	49	46	43	40	35	30	23												
		40		65	63	61	59	57	55	52	50	47	45	41	37	32	26													
		50		64	62	60	58	56	54	51	49	46	43	39	35	29	21													
		60	65	63	61	59	57	55	52	50	47	44	41	37	31	25														
Shut-off PSI			332	315	298	280	263	246	228	211	194	177	159	142	125	107	90	73	55	38										
45GS100	10	0				65	64	63	61	60	58	57	55	54	53	51	50	48	46	44	42	39	36	32	28	23				
		20			65	64	63	61	60	58	57	55	54	52	51	49	48	46	44	42	39	36	32	27	22					
		30			65	64	63	62	60	59	57	56	54	53	52	50	49	47	45	43	40	37	33	29	24					
		40			65	64	62	61	60	58	56	55	54	52	51	49	48	46	44	41	38	35	31	26	21					
		50	65	64	63	62	60	59	57	56	54	53	51	50	48	47	45	42	40	36	33	28	23							
		60	65	64	62	61	59	58	56	55	53	52	50	49	47	45	43	41	38	34	30	26	20							
Shut-off PSI			456	439	422	404	387	370	353	335	318	301	283	266	249	231	214	197	179	162	145	127	110	93	75	58				



## Residential Water Systems

### MODEL 65GS

#### SELECTION CHART

Horsepower Range 1½ - 5, Recommended Range 30 - 80 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																					
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480
65GS15	1½	0		78	70	61	51	36																
		20	68	58	47	30																		
		30	57	45																				
		40	42																					
		50																						
		60																						
Shut-off PSI			55	46	38	29	20	12																
65GS20	2	0		81	74	67	59	48	35															
		20	72	64	56	45	30																	
		30	63	54	43																			
		40	53	41																				
		50	39																					
		60																						
Shut-off PSI			65	56	48	39	30	22	13															
65GS30	3	0			81	76	71	66	59	53	45	35												
		20	80	75	69	64	57	51	42	32														
		30	74	69	63	56	49	41	30															
		40	68	62	55	48	39																	
		50	61	54	47	38																		
		60	53	46	36																			
Shut-off PSI			96	87	79	70	61	53	44	35	27	18												
65GS50	5	0						80	77	73	70	67	63	59	55	50	45	39	32					
		20				79	76	72	69	66	62	58	54	49	44	37	30							
		30			78	75	72	69	65	61	57	53	48	43	36									
		40		78	75	71	68	64	61	57	52	47	42	35										
		50	77	74	71	67	64	60	56	52	47	41	34											
		60	74	70	67	63	59	55	51	46	40	33												
Shut-off PSI			164	155	147	138	129	121	112	103	95	86	77	69	60	51	43	34	26					

Horsepower Range 7½ - 10, Recommended Range 30 - 80 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																						
			40	80	120	160	200	240	280	320	360	400	440	480	520	560	600	640	680	720	760	800	840	880	
65GS75	7½	0						78	74	70	66	61	56	50	44	35									
		20				80	77	73	69	65	60	55	50	42	33										
		30				79	75	71	67	62	57	52	46	38											
		40			80	77	73	69	64	60	54	49	41	32											
		50			78	75	70	66	62	57	51	45	36												
		60		79	76	72	68	64	59	54	48	40	30												
Shut-off PSI			268	251	233	216	199	181	164	147	129	112	95	77	60	43									
65GS100	10	0						80	78	75	72	69	66	62	58	54	50	45	39	31					
		20					80	78	75	72	69	65	62	58	54	49	44	37	30						
		30					79	76	73	70	67	63	59	55	51	46	40	33							
		40				80	77	74	71	68	65	61	57	53	48	43	36								
		50				78	76	73	69	66	63	59	55	50	45	39	32								
		60			79	77	74	71	68	64	60	57	52	48	42	35									
Shut-off PSI			339	322	305	288	270	253	236	218	201	184	166	149	132	114	97	80	62	45					

## Residential Water Systems

### MODEL 85GS

#### SELECTION CHART

Horsepower Range 3 - 10, Recommended Range 40 - 120 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																								
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480	520		
85GS30	3	0		112	103	92	79	64	48																		
		20	100	88	74	59	42																				
		30	86	72	57	39																					
		40	70	54																							
		50	52																								
		60																									
Shut-off PSI			66	58	49	40	32																				
85GS50	5	0				114	109	103	97	90	83	74	66	57	47												
		20	119	113	107	101	95	88	80	72	63	54	43														
		30	112	106	101	94	87	79	70	62	52	41															
		40	105	100	93	85	77	69	60	51	40																
		50	99	92	84	76	68	59	49																		
		60	91	83	75	66	58	48																			
Shut-off PSI			128	119	111	102	93	85	76	67	59	50	41	33	24												
85GS75	7½	0					119	115	111	108	104	100	95	91	86	81	76	71	65	59	52						
		20				118	114	110	106	102	98	94	89	84	80	74	69	63	57	50	41						
		30			117	113	110	106	102	98	93	88	84	79	74	68	62	56	48	40							
		40	120	116	113	109	105	101	97	92	88	83	78	73	67	61	55	47									
		50	116	112	109	105	101	96	92	87	82	77	72	66	60	54	46										
		60	112	108	104	100	95	91	86	81	76	71	66	59	53	45											
Shut-off PSI			203	194	185	177	168	159	151	142	133	125	116	107	99	90	81	73	64	55	47	38					
85GS100	10	0							119	116	114	111	108	104	101	97	94	90	87	83	79	71	62	52			
		20						118	116	113	110	107	103	100	96	93	89	85	82	78	74	70	61	50			
		30				120	118	115	112	109	106	103	99	96	92	89	85	81	77	73	69	65	55	42			
		40			120	117	115	112	109	106	102	99	95	92	88	84	81	77	73	68	64	59	48				
		50		120	117	114	111	108	105	102	98	95	91	87	84	80	76	72	68	63	58	53	40				
		60	119	117	114	111	108	105	101	98	94	91	87	83	79	75	71	67	63	58	52	46					
Shut-off PSI			265	257	248	239	231	222	213	205	196	188	179	170	162	153	144	136	127	118	110	101	84	66	49		

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

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- Features:**
- ◆ Heavy red brass body for maximum strength
  - ◆ Cage type brass spool poppet eliminates sticking
  - ◆ Designed to reduce sand packing or clogging with foreign matter
  - ◆ Buna-n rubber facing for water, oil or gas
  - ◆ Silent operation in horizontal or vertical position
  - ◆ Can be used with water, oil or gas

NOTE: All brass foot and check valves rated at 200 psi at 180° operating temperature

### 530

Female X Female IN-LINE CHECK	
PART NUMBER	SIZE
922579	1/2"
922582	3/4"
922585	1"
922588	1 1/4"
922591	1 1/2"
922594	2"
922597	2 1/2"
922600	3"
922603	4"



## DUCTILE IRON CHECK VALVES

- Features:**
- ◆ Heavy Ductile Iron body for maximum strength
  - ◆ Cage type brass spool poppet eliminates sticking
  - ◆ Buna-n rubber facing for water, oil or gas
  - ◆ Lead free
  - ◆ Durable catalytic epoxy - NSF/FDA finish
  - ◆ Stainless steel spring

### 530D

Female X Female IN-LINE CHECK	
PART NUMBER	SIZE
922630	2 1/2"
922635	3"
922640	4"

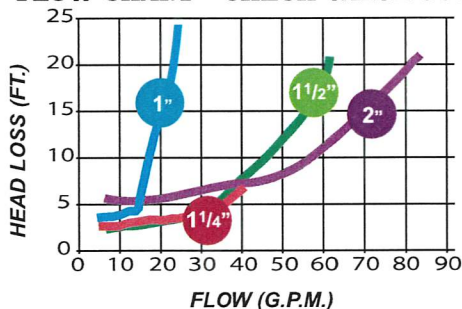
### 530D CHECK VALVE with BREAK OFF PLUG

- Features:**
- ◆ Includes 1/2" stainless steel break off plug
  - ◆ When plug is broken, it allows water to drain from pipe

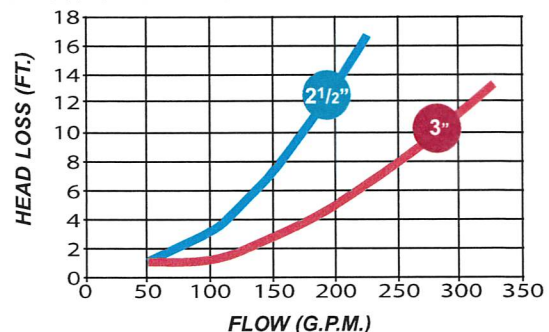
### 530D

Female X Female IN-LINE CHECK WITH BREAK OFF PLUG	
PART NUMBER	SIZE
922620	4"

**FLOW CHART • CHECK VALVE 530**



**FLOW CHART • CHECK VALVES 530 & 530D**

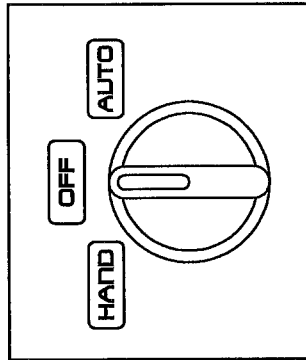


## Operation

- Intended for use with 3-Phase, 50/60Hz
- Accepts 208-600VAC  $\pm 10\%$
- Short-Circuit (RMS, Symmetrical)
- Standard Alone Overload Unit - 200 KAIC, 600V Max.
- Standard Starter - See UL label on panel
- Combination Starter - See UL label on panel
- Ambient Operating Temperature = -20°C to 60°C
- Ambient Storage Temperature = -40°C to 85°C

### **⚠ DANGER**

- Ensure that all connections are properly torqued and enclosure is closed prior to applying power to the device.
- Ensure all mechanical equipment operated by the starter is clear for safe operation in case of starter activation.
- When in AUTO mode, starter may be activated remotely by the control system



### Operation Modes

- HAND**  
Place the switch in the HAND position to manually engage motor.
- OFF (RESET)**  
Place the switch in the OFF position to manually disengage the motor. Additionally, the OFF position serves as a manual reset.
- Place the switch in the OFF position for 5 seconds to reset the starter after a fault trip.
- AUTO**  
Placing the switch in the AUTO position will allow the starter to be controlled by a remote Start/Stop command.

### Setting Adjustments

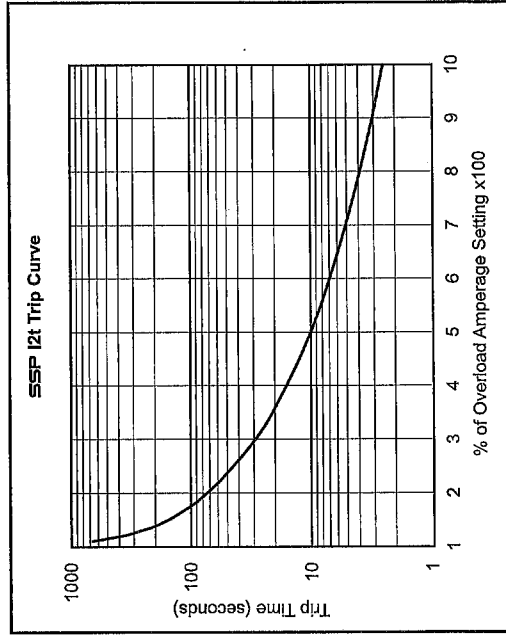
- Overload**  
Set the overload dial to the SFA amperage value listed on the motor nameplate. If no amperage value for SFA is provided, set the overload dial to the FLA listed on the motor nameplate.
- Underload**  
For submersible motor applications, it is suggested that the dial be set to 70% to protect against dry-run condition.

## I/O Descriptions

TERMINAL BLOCK	DESCRIPTION
D1 / D2	<b>Dry Auto Input</b> - When closed, the starter will run when in Auto Mode. (N.O. dry contact or transistorized input)
O1 / O2	<b>Fault Relay Output</b> - Normally open relay contacts that closes in the event of a fault condition. 120VAC, 0.6A
For the above: Use 12-20AWG wire for I/O terminal blocks	
TERMINAL	DESCRIPTION
T- / T1 / T+	<b>Run-Timer Input</b> - Connections for optional 1/2-12hr run timer.
D3 / D4 / D5	<b>Pilot Device Input</b> - Connections for a 3-position (HOA) switch for motor control. (Wired from manufacturer on N3R enclosed units)
C- / C+	<b>Contactor Output</b> - Provides a 24V output to close the contactor when the motor starter is commanded in either HAND or AUTO mode. Once the contactor is closed, the output drops to 2-4V to maintain contactor closure while optimizing efficiency. Only for use with Franklin Electric contactor with 24VAC coil (24V, 0.875A Max).
For the above: Use 14-26AWG wire for I/O terminals, torque to 3.5 lb-in	

### **⚠ WARNING**

OVERLOAD/CONTROL UNIT MUST BE REPLACED IF BURNOUT OF THE EXTERNAL CURRENT TRANSFORMERS OCCURS.



Product improvement is a continual process. Cerus, Mira, Smartstart and associated logos are trademarks of Franklin Electric Co., Inc. All sales are subject to FE Terms & Conditions.

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## Installation & Operation Guide

This manual is available for download at [www.franklinwater.com](http://www.franklinwater.com)



## Precautions

To prevent injury and property damage, follow these instructions. Failure to adhere to installation/operation procedures and all applicable codes may result in hazards as indicated by warning codes outlined below:

### **⚠ DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

### **⚠ WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

### **⚠ CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



This is the safety alert symbol. Read and follow instructions carefully to avoid a dangerous situation.



This symbol alerts the user to the presence of "dangerous voltage" inside the product that might cause harm or electrical shock.

## Safety Instructions

### **⚠ DANGER**

Equipment can start automatically. Lockout/tagout before servicing.

### **⚠ CAUTION**

As with all electrical products, read manual thoroughly. Only qualified, expert personnel should perform maintenance and installation. Contact the nearest authorized service facility for examination, repair, or adjustment. Do not disassemble or repair unit unless described in this manual; death or injury to electrical shock or fire hazard may result. Specifications and manual data subject to change. Consult factory for additional information.

# Installation



## HAZARDOUS VOLTAGE

- Disconnect and lock out all power before installing or servicing equipment.
- This equipment may require locking out multiple power sources prior to service.
- Install and wire in accordance with all applicable local & national electrical and construction codes

## FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEATH OR SERIOUS INJURY

### Mounting

Mount the starter on a vertical surface, with the line terminals facing up.

### CE compliant installations

To conform to the EMC directive a ferrite core is required on the input of the starter module. Consult the factory for the recommended part number. For a CE compliant installation, all electrical connections must be made by a qualified electrical technician.



- To maintain overcurrent and short-circuit protection, the manufacturer's instructions for selecting current elements and setting the instantaneous-trip circuit breaker must be followed.

- Tripping of the instantaneous-trip circuit breaker is an indication that a fault current has been interrupted. Current-carrying components of the magnetic motor controller should be examined and replaced if damaged to reduce the risk of fire or electric shock.

- Do not locate starter in an environment subject to flammable gases, dusts or materials. Contact arcing can induce explosion or fire.
- Locate starter in a location appropriate to enclosure ratings and operational ratings.
- Do not allow any metal shavings or debris from installation to enter enclosure.

### Wiring

Wire main power input and motor leads to the appropriate terminals tightened to specified torques indicated in the Torque Table below. Use only copper conductors rated at least 60°C for applications less than 100A and at least 75°C ≥ 100A. Maintain proper clearances and verify that no possibility of an electrical short exists between the power conductors or enclosure. Ensure that wires are not under stress and all insulation is intact.

### Low Voltage Wiring

Automation system control wiring should be run in a separate conduit. The control terminal blocks accept 20-12AWG.

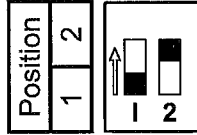
### Torque Table

Input (lb-in)	Output (lb-in)
Standard	Combination
50	132
	Motor Leads
	80-86



Submersible pumps can develop very high pressure in some situations. Always use a properly selected and installed pressure relief valve to prevent damage and injury from over-pressurization of pipes and tanks.

# Program Switches



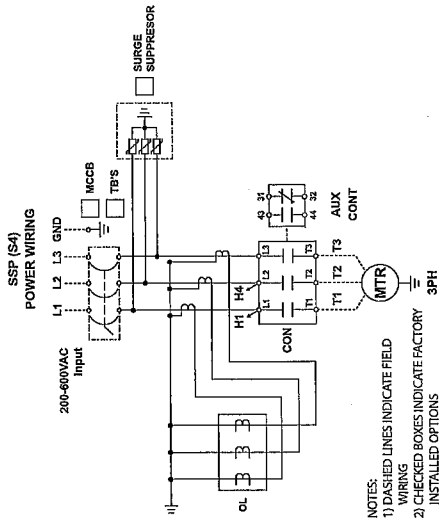
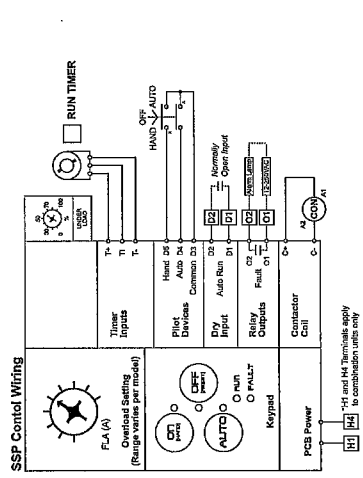
SWITCH 1 Default = Position 1	Phase Unbalance (Position 1) - Trips in the event of phase loss or if any 1 phase deviates by more than 25% from average. (Position 2) - Trips in the event of phase loss or if any 1 phase deviates by more than 80% of average.
SWITCH 2 Default = Position 2	Power Fail Modes (Position 1) - In the event of a power failure, the starter will return to OFF mode. (Position 2) - In the event of a power failure, the starter will return the last mode it was in (Hand, Off, or Auto) within 10 seconds.

# Electronic Overload Operation

When an fault trip occurs, the fault LED will illuminate. The type of fault will be indicated by flashing a combination of the HAND/OFF/AUTO/RUN/FAULT LEDs as indicated in the table below.

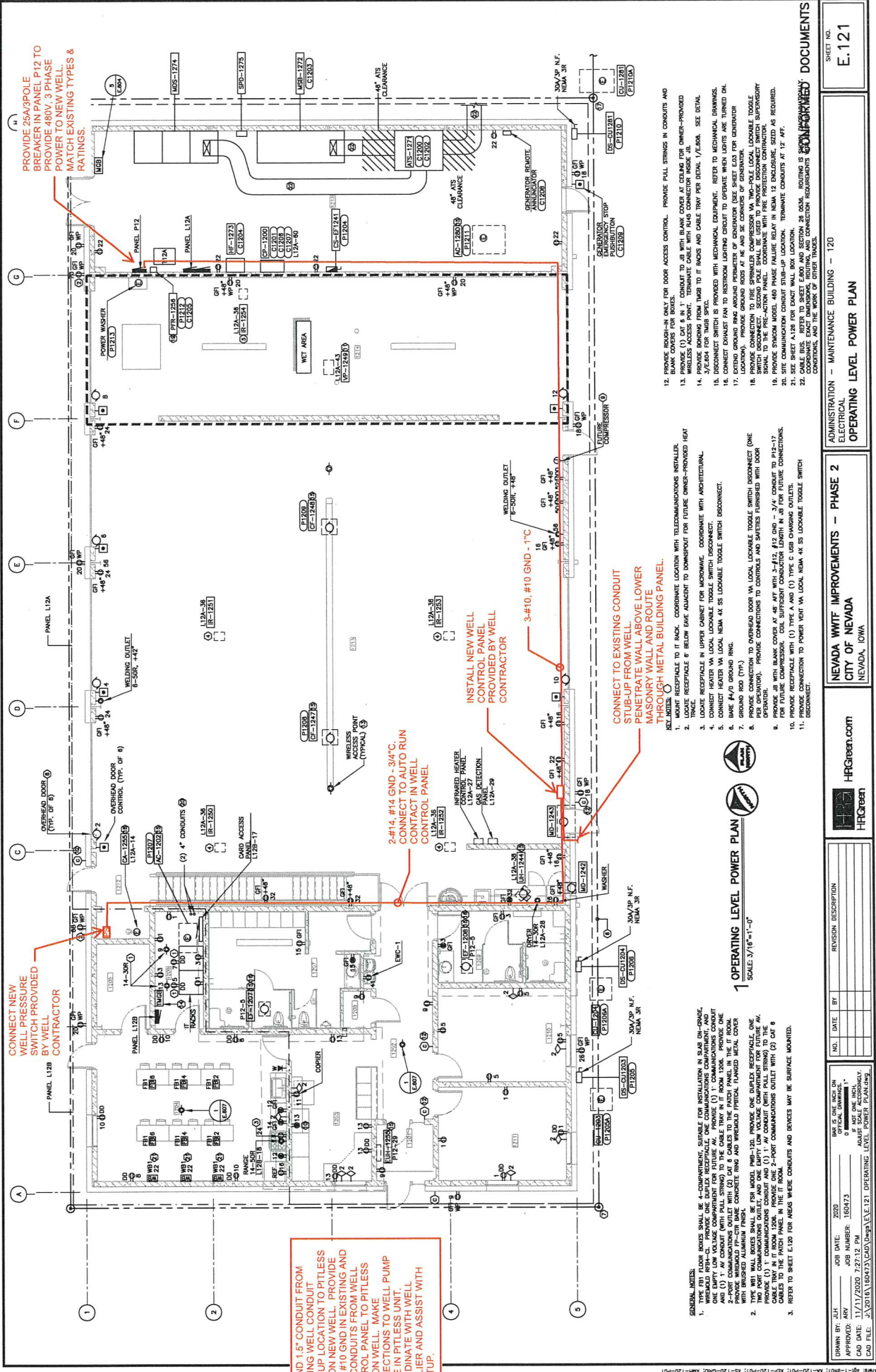
FAULT	FLASHING LED
Cycle Fault	NONE
Hardware Fault	RUN & FAULT LEDs
Locked Rotor	OFF LED
Max Start Time	OFF & AUTO LEDs
No Current Fault	HAND LED
Stall	HAND & AUTO LEDs
Overload	HAND & OFF LEDs
Underload	AUTO LED
Phase Unbalance	HAND, OFF, & AUTO LEDs

# Wiring Schematic\*



- NOTES:
- 1) DASHED LINES INDICATE FIELD
- 2) CHECKED BOXES INDICATE FACTORY INSTALLED OPTIONS

\*Standard product wiring diagram shown. As-built product wiring may vary. Product wiring diagram located on starter enclosure.



PROVIDE 3/4\"/>

CONNECT NEW WELL PRESSURE SWITCH PROVIDED BY WELL CONTRACTOR

EXTEND 1.5\"/>

2-#14 #14 GND -3/4°C. CONNECT TO AUTO RUN CONTACT IN WELL CONTROL PANEL

INSTALL NEW WELL CONTROL PANEL PROVIDED BY WELL CONTRACTOR

CONNECT TO EXISTING CONDUIT STUB-UP FROM WELL PENETRATE WALL ABOVE LOWER MASONRY METAL BUILDING PANEL THROUGH METAL BUILDING PANEL.

12. PROVIDE ROUGH-IN ONLY FOR DOOR ACCESS CONTROL. PROVIDE PULL STRINGS IN CONDUITS AND BLANK COVERS FOR BOXES.
13. BLANK COVERS TO BE INSTALLED TO BE WITH BLANK COVER AT PERMS FOR OWNER-PROVIDED WIRELESS ACCESS POINT. TERMINATE CABLE WITH RING CONNECTOR INSIDE JR. UNLESS ACCESS POINT.
14. PROVIDE BONDING FROM THUB TO IT RACKS AND CABLE TRAY PER DETAIL 1/2.00A. SEE DETAIL 3/2.00A FOR THUB SPEC.
15. DISCONNECT SWITCH IS PROVIDED WITH MESHWORK EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
16. EXTRA GROUND RING AROUND PERIMETER OF GENERATOR (SEE SHEET ELEC FOR GENERATOR LOCATION). PROVIDE GROUND RING AT NE AND SE CORNERS OF GENERATOR.
17. PROVIDE CONNECTION TO FIRE SUPPRESSOR COMPRESSOR AND TWO-PHASE LOCAL LOCKOUT SIGNAL TO THE PRE-ACTION PANEL. COORDINATE WITH FIRE PROTECTION CONTRACTOR.
18. PROVIDE SHOWN MODEL 400 PHASE FAILURE RELAY IN NEMA 12 ENCLOSURE, SIZED AS REQUIRED. SITE COMMUNICATE WITH FIRE SUPPRESSOR CONTRACTOR FOR WIRELESS ACCESS POINT.
19. PROVIDE CONNECTION TO POWER VENT VIA LOCAL NEMA 4X SS LOCKABLE TOGGLE SWITCH DISCONNECT.
20. CABLE BUS. REFER TO SHEET ELEC AND SECTION 28.00A. ROUTING IS TO BE DETERMINED BY THE CONTRACTOR AND THE OWNER. SEE SECTION 28.00A.
21. COORDINATE EXACT DIMENSIONS, ROUTING, AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTORS AND THE OWNER. SEE SECTION 28.00A.

1. MOUNT RECEPTACLE TO IT RACK. COORDINATE LOCATION WITH TELECOMMUNICATIONS INSTALLER.
2. LOCATE RECEPTACLE IF RELAY RACK ALREADY TO DOWNPOUT FOR FUTURE OWNER-PROVIDED HEAT CONNECT HEATER VA LOCAL LOCKABLE TOGGLE SWITCH DISCONNECT.
3. LOCATE RECEPTACLE IN UPPER CABINET FOR MOWERMATE. COORDINATE WITH ARCHITECTURAL.
4. CONNECT HEATER VA LOCAL LOCKABLE TOGGLE SWITCH DISCONNECT.
5. CONNECT HEATER VA LOCAL NEMA 4X SS LOCKABLE TOGGLE SWITCH DISCONNECT.
6. BAKE #4/0 GROUND RING.
7. GROUND ROD (TYP.).
8. PROVIDE CONNECTION TO OVERHEAD DOOR VA LOCAL LOCKABLE TOGGLE SWITCH DISCONNECT (ONE OPERATOR). PROVIDE CONNECTIONS TO CONTROLS AND STATUSES FURNISHED WITH DOOR OPERATOR.
9. PROVIDE JIB WITH BLANK COVER AT 48\"/>



OPERATING LEVEL POWER PLAN  
SCALE: 3/16"=1'-0"

DRAWN BY: JLT		DATE: 2020	NO.	DATE	BY
APPROVED: ARV		JOB NUMBER: 150473	REVISION DESCRIPTION		
CAD DATE: 11/11/2020 7:27:12 PM		DATE: 08/04/2020 10:50:00 AM	REVISION 1		
CAD FILE: J:\2018\150473\CAD\DWG\ELEC\E.121.OPERATING LEVEL POWER PLAN.DWG		REVISION 2			
		REVISION 3			
		REVISION 4			
		REVISION 5			
		REVISION 6			
		REVISION 7			
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		REVISION 100			

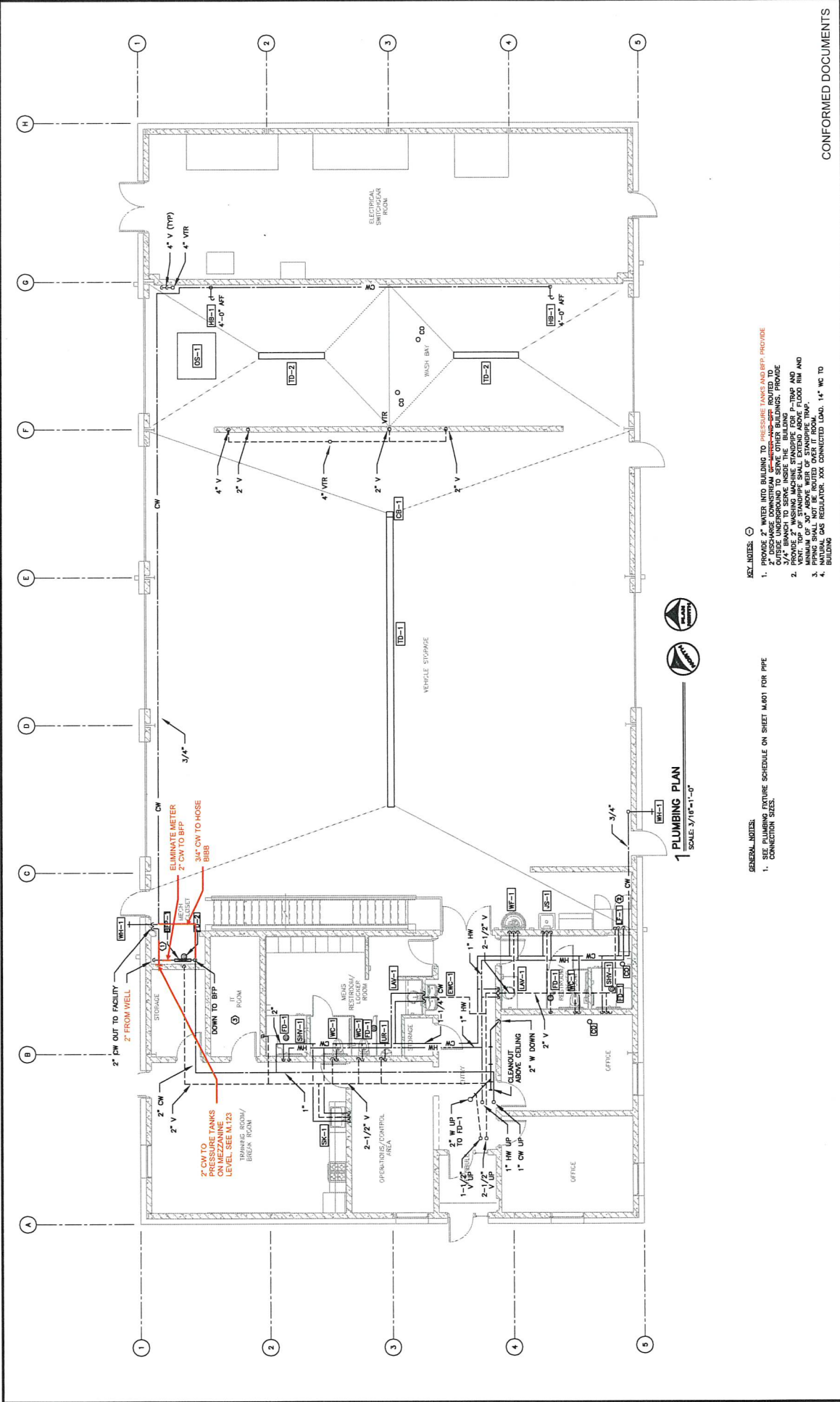
SHEET NO. E.121

ADMINISTRATION - MAINTENANCE BUILDING - 120  
ELECTRICAL  
OPERATING LEVEL POWER PLAN

NEVADA WWTF IMPROVEMENTS - PHASE 2  
CITY OF NEVADA  
NEVADA, IOWA



OPERATING LEVEL POWER PLAN  
SCALE: 3/16"=1'-0"



**1 PLUMBING PLAN**  
SCALE: 3/16"=1'-0"

- KEY NOTES:**
1. PROVIDE 2" WATER INTO BUILDING TO PRESSURE TANKS AND BFP. PROVIDE DISCHARGE DOWN TO SERVE OTHER BUILDINGS. PROVIDE 3/4" BRANCH TO SERVE INSIDE THE BUILDING.
  2. PRESSURE TANKS SHALL BE INSTALLED AT THE TOP AND MINIMUM OF 30" ABOVE WEIR OF STAMPING TRAP.
  3. NATURAL GAS REGULATOR. XXX CONNECTED LOAD. 14" WC TO BUILDING.

- GENERAL NOTES:**
1. SEE PLUMBING FIXTURE SCHEDULE ON SHEET M.101 FOR PIPE CONNECTION SIZES.

CONFORMED DOCUMENTS

SHEET NO.  
**M.121**

ADMINISTRATION - MAINTENANCE BUILDING - 120  
MECHANICAL  
**OPERATING LEVEL PLUMBING PLAN**

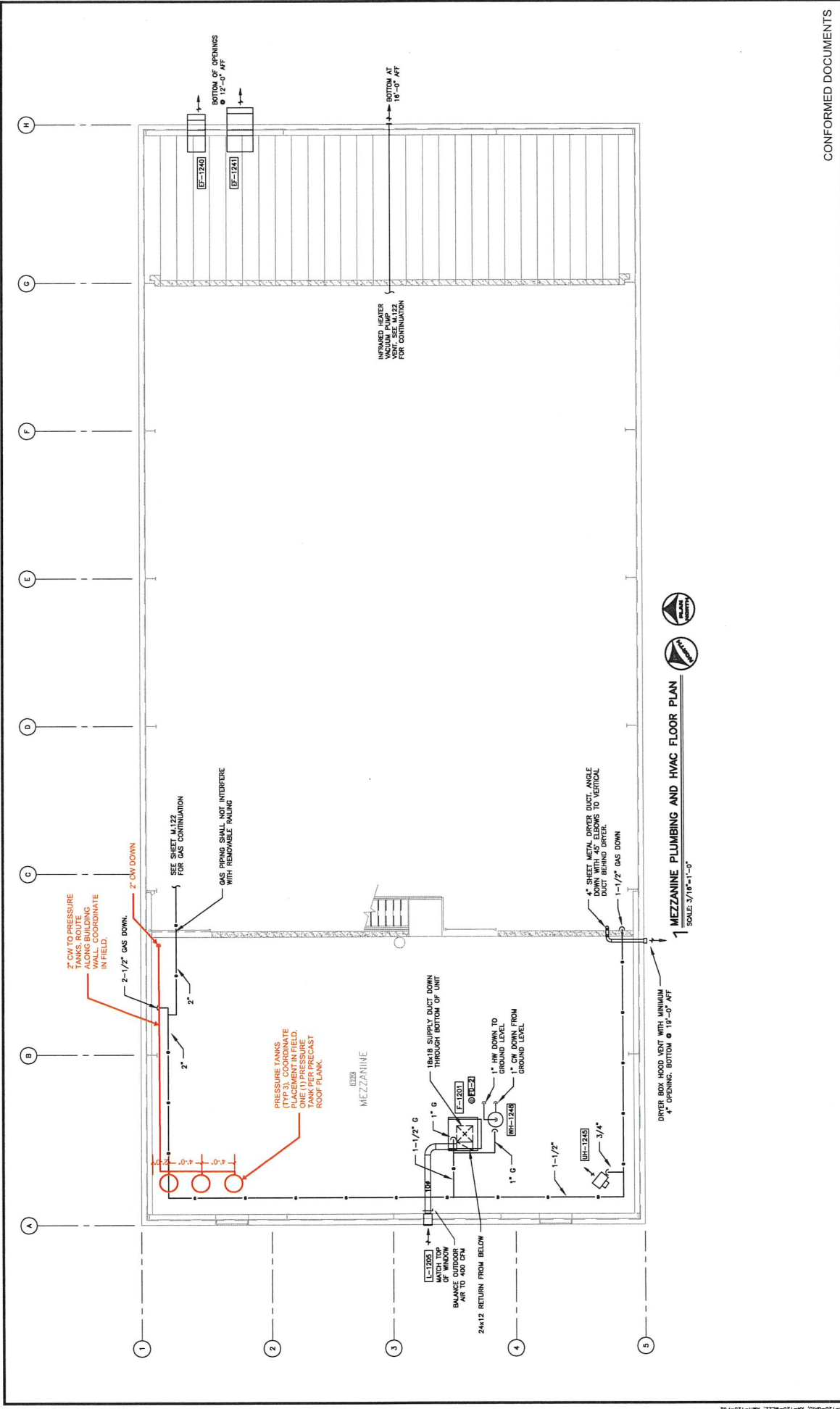
**NEVADA WWTF IMPROVEMENTS - PHASE 2**  
CITY OF NEVADA  
NEVADA, IOWA

**H2Green**  
H2Green.com

NO.	DATE	BY	REVISION DESCRIPTION

DRAWN BY: CHB  
DATE: 2020  
APPROVED: DAS  
JOB NUMBER: 160473  
CADD DATE: 11/19/2020 11:50:58 AM  
CADD FILE: J:\2018\160473\CADD\Design\M.121 OPERATING LEVEL PLUMBING PLAN.dwg





**MEZZANINE PLUMBING AND HVAC FLOOR PLAN**  
 SCALE 3/16"=1'-0"

CONFORMED DOCUMENTS

SHEET NO.  
**M.123**

ADMINISTRATION - MAINTENANCE BUILDING - 120  
 MECHANICAL  
 UPPER LEVEL PLUMBING AND HVAC PLAN

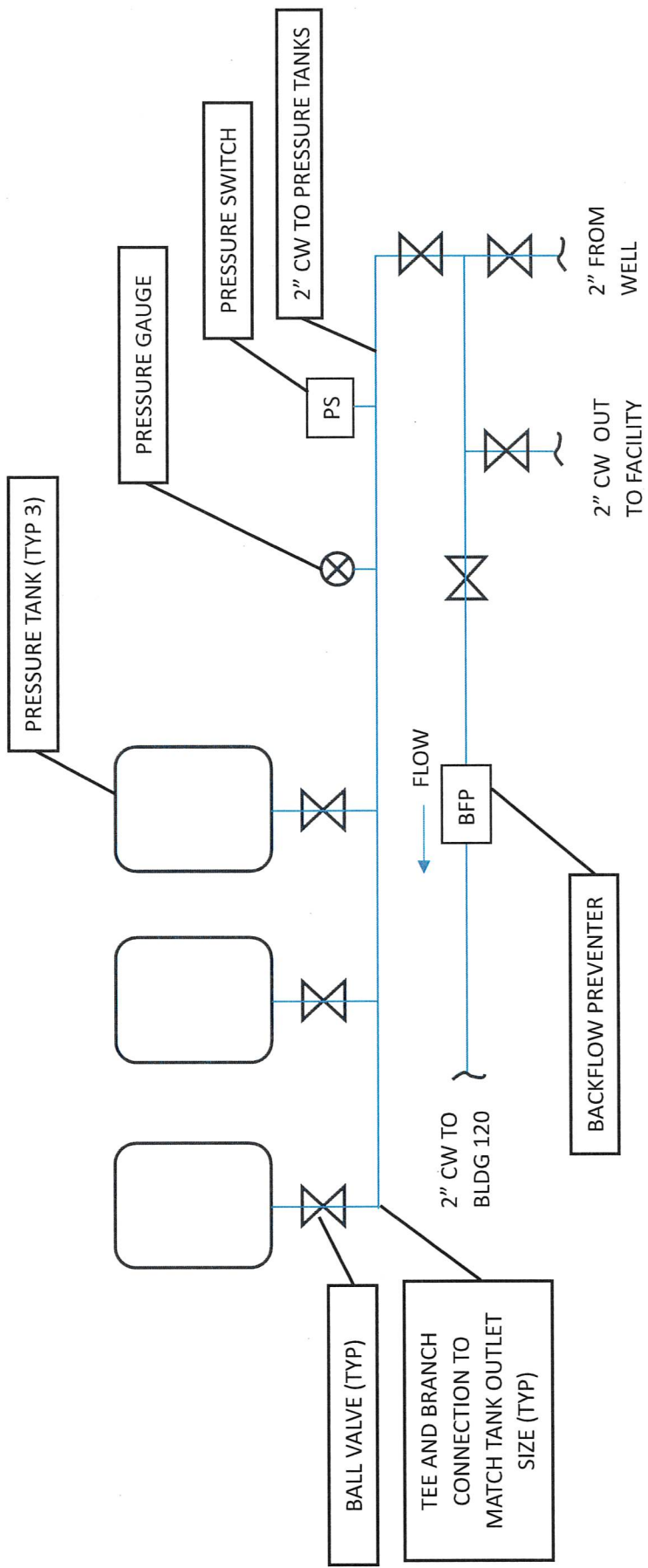
NEVADA WWTF IMPROVEMENTS - PHASE 2  
 CITY OF NEVADA  
 REVADA, IOWA



NO.	DATE	BY	REVISION DESCRIPTION

DATE IS ONE INCH ON  
 0 FEET 0 INCHES 1"  
 AS NOT ONE INCH  
 ACCORDING  
 CAD FILE: J:\2018\180473\CAD\Drawn\M.M.123 UPPER LEVEL HVAC PLAN.dwg

DESIGNED BY: CMB  
 DATE: 2020  
 APPROVED: DAS  
 DATE: 11/19/2020 11:48:15 AM  
 CAD FILE: J:\2018\180473\CAD\Drawn\M.M.123 UPPER LEVEL HVAC PLAN.dwg



**WELL EQUIPMENT PLUMBING SCHEMATIC**  
 NTS

## Kurtis Knapp

---

**From:** riley larsondrilling.com <riley@larsondrilling.com>  
**Sent:** Monday, January 22, 2024 5:10 PM  
**To:** Kurtis Knapp  
**Subject:** Re: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

- Do you have an anticipated lead time for any of the equipment/materials upon approval and release?
  - Awaiting response from supplier.
- What is your expected duration for completion of the well work once onsite?
  - One - two weeks.
- We anticipate this work taking place as soon as possible this spring – March/April. Do you have any issue or concern with this?
  - No, we can get the material ordered and O&M Manuals sent as soon as we receive the go ahead.
- I am attaching a sample rough draft purchase order of what we will be sending to you once the pricing is agreed to and we receive our change order from the City of Nevada. Please review and advise if there will be any concerns. Realistically, the earliest we would receive our change order and be able to issue a PO to you would be March 1<sup>st</sup>.
  - Yes, confirming site restoration (topsoil and seeding) included in price.
  - A few questions on the attachment in the handwritten part: what material and size is the water line that is currently there? What kind of pressure testing is required?
  - The last page #44. The conditions on the reverse side of this sheet are a part of this order - but there wasn't a reverse side.
  - Also, #94. The enclosed waiver forms must be used for all payments to your subcontractor/and/or suppliers - there wasn't an enclosed form.
  - Finally, insurance requirements continued on the backside of this sheet - there isn't a backside to the attachment.
  - The last line was cut off I can only make out professional liability on seller PO's. (need to insert file, not macro) what does this line stipulate?

---

**From:** Kurtis Knapp <kurtis@wbci.us>  
**Sent:** Monday, January 8, 2024 4:43 PM  
**To:** riley larsondrilling.com <riley@larsondrilling.com>  
**Subject:** RE: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Riley,

Also, we are planning to include site restoration such as regrading topsoil & seeding the impacted area. We assume all other sitework including any hauling is included in your price.

Thanks,  
Kurtis Knapp  
Williams Brothers Construction Inc.  
Cell: (815) 878-4845

**From:** Kurtis Knapp  
**Sent:** Monday, January 8, 2024 11:23 AM  
**To:** riley larsondrilling.com <riley@larsondrilling.com>  
**Subject:** RE: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Riley,

We have finally received all of the other proposals associated with this work and have a few additional questions prior to submitting to HR Green:

- Do you have an anticipated lead time for any of the equipment/materials upon approval and release?
- What is your expected duration for completion of the well work once onsite?
- We anticipate this work taking place as soon as possible this spring – March/April. Do you have any issue or concern with this?
- I am attaching a sample rough draft purchase order of what we will be sending to you once the pricing is agreed to and we receive our change order from the City of Nevada. Please review and advise if there will be any concerns. Realistically, the earliest we would receive our change order and be able to issue a PO to you would be March 1<sup>st</sup>.

Please review and respond to our questions and update your pricing accordingly, if necessary.

Kurtis Knapp  
Williams Brothers Construction Inc.  
Cell: (815) 878-4845

---

**From:** riley larsondrilling.com <riley@larsondrilling.com>  
**Sent:** Wednesday, November 29, 2023 3:20 PM  
**To:** Kurtis Knapp <kurtis@wbci.us>  
**Subject:** Re: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Kurtis,

The attached revised estimate will include:

- Excavate 6' around the well
- Install the pitless unit
- Connecting the water line to the pitless unit at the well
- Backfill around the well
- Install pump, pipe and wire down the well
- Well startup and testing of amp balance and pump rotation
- We will provide the Operation and Maintenance manuals after the bid is accepted. Suppliers need to confirm the PO.
- Leave three (3) ASME pressure tanks, well controller, pressure gauge and pressure switch at the front door of the building

Thanks -

---

**From:** Kurtis Knapp <[kurtis@wbci.us](mailto:kurtis@wbci.us)>  
**Sent:** Wednesday, November 29, 2023 8:58 AM  
**To:** riley larsondrilling.com <[riley@larsondrilling.com](mailto:riley@larsondrilling.com)>  
**Subject:** RE: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Riley,

In general no major issues but still would like to confirm the following :

- The RFP included the exterior water piping connection as part of the well work. There is currently a 2" line ran to the well area. Please confirm this work is included in your bid.
- We will coordinate with the electrician for connections, there is currently a buried conduit to the area of the well
- This will be a lump sum contract
- Well startup, testing & Commissioning is included
- Furnish Operation and maintenance manuals as listed in the RFP
- We are required to withhold 5% retainage until released by the Owner

Kurtis Knapp  
Williams Brothers Construction Inc.  
Cell: (815) 878-4845

---

**From:** riley larsondrilling.com <[riley@larsondrilling.com](mailto:riley@larsondrilling.com)>  
**Sent:** Tuesday, November 28, 2023 4:38 PM  
**To:** Kurtis Knapp <[kurtis@wbci.us](mailto:kurtis@wbci.us)>  
**Subject:** Re: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Kurtis,

Apologize for the delay. Just to clarify we are providing an estimate for the following:

-Excavate 6' around the well

-Install the pitless unit

-Backfill around the well

-Install pump, pipe and wire down the well

-Leave three (3) ASME pressure tanks, well controller, pressure gauge and pressure switch at the front door of the building.

-You will need to excavate around the well to hook the water line to the pitless unit and bring the electrical to the well to hook to the submersible cable that Larson Well Co will provide during pump set. **\*\*Note**, when the system is started, please verifying proper rotation of the pump and ensure proper amp balancing is performed.

---

**From:** Kurtis Knapp <[kurtis@wbci.us](mailto:kurtis@wbci.us)>  
**Sent:** Monday, November 27, 2023 3:16 PM  
**To:** riley larsondrilling.com <[riley@larsondrilling.com](mailto:riley@larsondrilling.com)>  
**Subject:** RE: Nevada WWTF Phase 2 - RFP-09 - Private Well installation

Riley,



**WILLIAMS  
BROTHERS  
CONSTRUCTION, INC.**

## Contractor's / Subcontractor's Proposal Breakdown Summary

Date: 10/17/23

COR-018

**Engineer:**  
HR Green  
5525 Merle Hay Rd. Suite 200  
Johnston, IA 50131

**OWNER:** City of Nevada  
**PROJECT:** Nevada WWTF Phase 2  
Nevada, IA  
**WBCI Project #** 542

**I DESCRIPTION OF CHANGE:**

Proposal for revisions to inslab/underslab piping at Building 550 associated with RFI-062 response and subsequent discussions. Conflicts with Sump pit elevation, permeate drains and slab reinforcing required plumbing to be re-routed.

**II SUMMARY OF DETAILED BREAKDOWN**

	Additions	Deletions	Net Total
A. MATERIAL	\$0.00	\$0.00	\$0.00
B. LABOR	\$0.00	\$0.00	\$0.00
C. EQUIPMENT	\$0.00	\$0.00	\$0.00
D. OTHER COSTS	\$0.00	\$0.00	\$0.00
1. SAFETY	(1% of LABOR) - Deletion -0-		\$0.00
2. EXPENDABLE TOOLS	(2.5% of LABOR) - Deletion -0-		\$0.00
E. NET TOTAL	(A+B+C+D1+D2)		\$0.00
F. OVERHEAD AND PROFIT	(E x 15%) - Deletion -0-		\$0.00
G. TOTAL WORK PERFORMED BY CONTRACTOR	(Lines E + F)		\$0.00

**III CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS**

Detailed Breakdowns and summaries from each contractor must be attached.

SUBCONTRACTOR: Firm Name	CONTRACT WORK: Description	PROPOSAL
1. MJ Oconnor	Plumbing	\$13,434.26
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
H. SUBTOTAL of all work performed by contractor's subcontractors		\$13,434.26
I. CONTRACTOR'S MARK-UP on work of subcontractors	(Line H x5%)	\$671.71
J. TOTAL WORK PERFORMED BY SUBCONTRACTOR	(Lines H+I)	\$14,105.97
K. PROPOSAL	(Lines G+J)	\$14,105.97
L. SUPPLEMENTAL COSTS		
1. PER DIEM	(5% of LABOR)	\$0.00
2. TEMPORARY FACILITIES	(2.5% of LABOR)	\$0.00
M. BONDS	(2.8% of PROPOSAL)	\$394.97
N. BUILDER'S RISK INSURANCE	(2% of PROPOSAL)	\$282.12

**IV TOTAL PROPOSAL**

- O. TOTAL PROPOSAL for subject CMR increase-(decrease)-in contract amount \$14,783
- P. The work for this CMR will require and extension of time of   0   Calendar Days.
- Q. All costs are valid for 14 days.

CONTRACTOR (SIGNATURE)..... .....

Title: Project Manager

Date: 10/17/23

**Kurtis Knapp**

# Subcontractor's Summary

## Building 550 DWV Repiping

Trade: Mechanical  
 Sub's Name: M. J. O'Connor Mechanical  
 Project: Nevada WWTF Phase 2  
 Date: August 28, 2023  
 Sales Tax %: 6.880%

### Scope of Work Description:

**Remove DWV piping that was installed below grade but ran into conflicts with 6" DIP process piping and 3" DIP process piping and the bottom of the sump pit.**  
 Install new DWV piping in the floor slab so that the invert of the piping in above the bottom of the sump pit

Scope of Work Description	Materials			Labor			Equipment			Total Cost			
	Item Description	Unit	Qty	Cost Per Unit	Total	Rate	# Man Hours	Total	Eq. Type		# Hrs.	Rate	Total
Demo of existing DWV Piping	7/14/2022				\$0.00	\$135.00	12.000	\$1,620.00				\$0.00	\$1,620.00
4" PVC DWV wye		ea	1.00	\$26.47	\$26.47			\$0.00				\$0.00	\$26.47
4"X3" PVC DWV wye		ea	2.00	\$21.49	\$42.98			\$0.00				\$0.00	\$42.98
4" PVC DWV St 45		ea	3.00	\$11.63	\$34.89			\$0.00				\$0.00	\$34.89
4" PVC DWV St 90		ea	1.00	\$15.95	\$15.95			\$0.00				\$0.00	\$15.95
3" PVC DWV wye		ea	2.00	\$14.59	\$29.18			\$0.00				\$0.00	\$29.18
3" PVC DWV St 45		ea	3.00	\$6.97	\$20.91			\$0.00				\$0.00	\$20.91
3" PVC DWV 90		ea	4.00	\$7.99	\$31.96			\$0.00				\$0.00	\$31.96
3" PVC DWV St 90		ea	2.00	\$9.45	\$18.90			\$0.00				\$0.00	\$18.90
4" PVC DWV Cap		ea	1.00	\$8.51	\$8.51			\$0.00				\$0.00	\$8.51
3" PVC DWV Cap		ea	3.00	\$3.74	\$11.22			\$0.00				\$0.00	\$11.22
4" SCH 40 PVC Pipe		ft	40.00	\$3.70	\$148.00			\$0.00				\$0.00	\$148.00
3" SCH 40 PVC Pipe		ft	40.00	\$2.75	\$110.00			\$0.00				\$0.00	\$110.00
Purple PVC Primer		qt	2.00	\$38.48	\$76.96			\$0.00				\$0.00	\$76.96
Clear PVC Primer		qt	2.00	\$23.60	\$47.20			\$0.00				\$0.00	\$47.20
4" No Hub Coupling		ea	2.00	\$5.60	\$11.20			\$0.00				\$0.00	\$11.20
3" No Hub Coupling		ea	3.00	\$4.46	\$13.38			\$0.00				\$0.00	\$13.38
4" Galv Riser Clamp		ea	10.00	\$13.56	\$135.60			\$0.00				\$0.00	\$135.60
3" Galv Riser Clamp		ea	8.00	\$9.92	\$79.36			\$0.00				\$0.00	\$79.36
3/8" ZP Rod		ft	42.00	\$0.70	\$29.40			\$0.00				\$0.00	\$29.40
3/8" ZP Nuts		ea	150.00	\$0.06	\$9.00			\$0.00				\$0.00	\$9.00
3/8" ZP Washers		ea	150.00	\$0.05	\$7.50			\$0.00				\$0.00	\$7.50
Rebar Tie Wire		ea	1.00	\$7.75	\$7.75			\$0.00				\$0.00	\$7.75
Installation Labor	7/15/2022				\$0.00	\$135.00	8.0	\$1,080.00				\$0.00	\$1,080.00
Installation Labor	7/18/2022				\$0.00	\$135.00	20.0	\$2,700.00				\$0.00	\$2,700.00
Installation Labor	7/19/2022				\$0.00	\$135.00	20.0	\$2,700.00				\$0.00	\$2,700.00
Installation Labor	7/20/2022				\$0.00	\$135.00	20.0	\$2,700.00				\$0.00	\$2,700.00
<b>Subtotals</b>					\$916.32		80.0	\$10,800.00		0.0		\$0.00	\$11,716.32
												Taxes	\$69.04
												Labor Mark-Up	15%
												Material & Equipment Mark-Up	10%
												<b>Total Cost</b>	<b>\$13,434.26</b>

**ORDER ACKNOWLEDGEMENT**



**DES MOINES**  
 4060 Dixon St.  
 Des Moines, IA 50313  
 Ph: 515-380-7805  
 FAX: 515-266-0699  
 www.schimberg.com

**PHONE:** (507) 433-5017  
**EMAIL:** JFURMAN@schimberg.com

Acknowledgement Date	08/25/2023
Order Number	6062190-00
Customer PO	WWTP NEVEDA
Writer	JOSH FURMAN
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	423.039
Freight Terms	Full Freight Allowed
Placed By	MICK

Bill To 8041	MJ O'CONNOR INC PO BOX 606 AUSTIN, MN 55912 US
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Ship To 2000	NEVADA WWTP 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
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Notes

Terms	Req Ship Date	Ship Point	Ship Via	Tax Jurisdiction
NET 30 DAYS	08/28/2023	SCHIMBERG DES MOINES	S CO TRUCK	US,IA,STORY L

Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
16		<del>88060700400 PVC80 90 ELL SXS 4</del>	<del>4</del>	<del>EA</del>	<del>22.66</del>	<del>90.64</del>
17		<del>88063300400 PVC80 UNION SXS 4</del>	<del>2</del>	<del>EA</del>	<del>67.57</del>	<del>135.14</del>
18		<del>89592050032 WELDON PRIMER P70 PURPLE 1 QT</del>	<del>1</del>	<del>EA</del>	<del>38.48</del>	<del>38.48</del>
19		<del>89507190032 WELDON PVC 710 CEM GRAY 1 QT</del>	<del>1</del>	<del>EA</del>	<del>54.54</del>	<del>54.54</del>
20		<del>80202010400 PIPE S80 PVC PE 4x20</del>	<del>20.0</del>	<del>FT</del>	<del>8.01</del>	<del>160.20</del>
23		80061000400 PVC DWV WYE 4	1	EA	26.47	26.47
24		80061000440 PVC DWV WYE 4X3	2	EA	21.49	42.98
25		80060620400 PVC DWV 45 ST ELL 4	3	EA	11.63	34.89
26		80060720400 PVC DWV 90 ST ELL 4	1	EA	15.95	15.95
27		80061000300 PVC DWV WYE 3	2	EA	14.59	29.18
28		80060620300 PVC DWV 45 ST ELL 3	5	EA	6.79	33.95
29		80060700300 PVC DWV 90 ELL 3	4	EA	7.99	31.96
30		80060720300 PVC DWV 90 ST ELL 3	2	EA	9.54	19.08
31		84061700400 PVC40 CAP SXS 4	1	EA	8.51	8.51
32		84061700300 PVC40 CAP SXS 3	3	EA	3.74	11.22
33		80102010300	40.0	FT	2.75	110.00





**ORDER ACKNOWLEDGEMENT**



**SCHIMBERG CO.**

**DES MOINES**  
 4060 Dixon St.  
 Des Moines, IA 50313  
 Ph: 515-380-7805  
 FAX: 515-266-0699  
 www.schimberg.com

**PHONE:** (507) 433-5017  
**EMAIL:** JFURMAN@schimberg.com

Acknowledgement Date	08/25/2023
Order Number	6062190-00
Customer PO	WWTP NEVEDA
Writer	JOSH FURMAN
Salesperson	CEDAR RAPIDS HOUSE
Total Weight	423.039
Freight Terms	Full Freight Allowed
Placed By	MICK

<b>Bill To</b> 8041	<b>MJ O'CONNOR INC</b> PO BOX 606 AUSTIN, MN 55912 US
------------------------	---

<b>Ship To</b> 2000	<b>NEVADA WWTP</b> 62521 270TH ST CONTACT: MICK:507-438-1743 NEVADA, IA 50201 US
------------------------	---

Notes

<b>Terms</b> NET 30 DAYS	<b>Req Ship Date</b> 08/28/2023	<b>Ship Point</b> SCHIMBERG DES MOINES	<b>Ship Via</b> S CO TRUCK	<b>Tax Jurisdiction</b> US,IA,STORY L
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Line #	NS	Part Number And Description	Quantity Ordered	Qty UM	Net Price	Ext Price
34		PIPE S40 PVC PE 3x20 80102010400	40.0	FT	3.70	148.00
35		PIPE S40 PVC PE 4x20 89592050032	2	EA	38.48	76.96
36		WELDON PRIMER P70 PURPLE 1 QT 89592000032	2	EA	23.60	47.20
37		WELDON PVC 705 CEM 1 QT 50560000400	2	EA	5.60	11.20
38		STANDARD NH CPLG 4 50560000300	3	EA	4.46	13.38
39		STANDARD NH CPLG 3 18879300400	10	EA	13.56	135.60
40		GRIN 261 GALV RISER CLMP 4 18879300300	8	EA	9.92	79.36
41		GRIN 261 GALV RISER CLMP 3				

39 Lines Total

**SALES PERSON CONTACT INFORMATION**  
 JOSH FURMAN  
 JFURMAN@schimberg.com

**Total** 3,358.72  
**Taxes** 0.00  
**Order Total** 3,358.72

If "ns" is indicated in the "ns" column or any part number beginning with an "n" or "w" is non-stock material and subject to manufacturers restock & return freight charges.

Customer Copy

Page 3 of 3



6062190-00



# Invoice

#INV54917

8/18/2023

**Bill To**

MJ O'Connor, Inc  
PO Box 606  
Austin MN 55912  
United States

**WO #** \_\_\_\_\_

**Ship To**

MJ O'Connor, Inc  
1507 NE 14th St  
Austin MN 55912  
United States

Terms	Due Date	PO #	Sales Rep	Shipping Method	Location
Net 30	9/17/2023	Mason Airport	Jason D Jacobs	Pick Up	Austin

Quantity	Units	Item	Customer Part No.	Rate	Amount
<del>25</del>	<del>EA</del>	<del>DC45002</del> <del>4 1/2" x .045 Cut Off Wheel CGW Razor Blade</del>		<del>\$2.80</del>	<del>\$70.00</del>
<del>5</del>	<del>EA</del>	<del>P3000T-GR-10</del> <del>1 5/8" x 1 3/8" Strut Green 10'</del>		<del>\$60.37</del>	<del>\$301.85</del>
<del>4</del>	<del>EA</del>	<del>DC29445</del> <del>4 1/2" x 7/8" Zirconia 80grit Flap Disc</del>		<del>\$5.88</del>	<del>\$23.52</del>
25	EA	T10-6 Threaded Rod 3/8" x 6' ZP		\$4.16	\$104.00
200	EA	N1910 Hex Nut 3/8" Zp		\$0.0598	\$11.96
200	EA	F2143 Flat Washer uss 3/8" Zinc		\$0.05404	\$10.81

Remit To:  
510 10th St. NE  
Austin MN 55912  
United States  
507-433-1400

**Subtotal** \$522.14

We appreciate your business. Thank you!  
Returns are not accepted after 90 days. Special orders are non-returnable.

**Tax Total** \$41.42  
**(7.875%)**

**Due Date:** 9/17/2023

**Total** \$563.26



INV54917



RFI# <u>62</u>		<b>REQUEST FOR INFORMATION</b>	
Subject: Permeate Drain Elevations			
Location: Solids Processing Building/Site			
Owner: City of Nevada, IA		Routing:	
Project: Nevada WWTF Improvements - Phase 2		<input checked="" type="checkbox"/> Owner	
Engineer: HR Green, Inc.		<input checked="" type="checkbox"/> Contractor	
5525 Merle Hay Road, Ste 200		<input checked="" type="checkbox"/> Engineer	
Johnston, IA 50131		<input type="checkbox"/> Other	
General Contractor: Williams Brothers Construction, Inc			
P.O. Box 1366			
Peoria, IL 61654			
Attn: Kurtis Knapp			
Drawing No.: Section 2 Sheet P.552;		Spec. Section: N/A	Other:
Sheet C.16; Sheet C.18			
<b>REQUEST</b>			
The elevation provided for 6" permeate drain on 2/P552 does not appear correct based on fitting locates provided on C.16. Please confirm Centerline elevation for underslab permeate drain at Solids Processing Building.			
BY: Kurtis Knapp	Initial/Contractor: Breuer	DATE: 6/1/22	
<b>RESPONSE</b>			
See revisions in RED text on attached sheets P.552, C.16, and C.18 related to the 6" Permeate Drain piping.			
BY: Mike Roth – HRG	Initial/Engineer: MJR	DATE: 6/3/22	

**STRUCTURE/GRADING LOCATES**

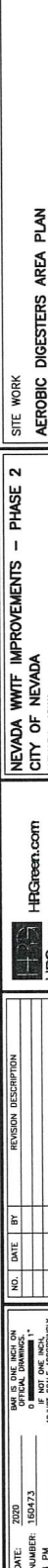
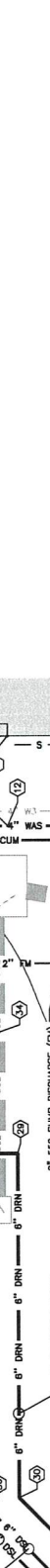
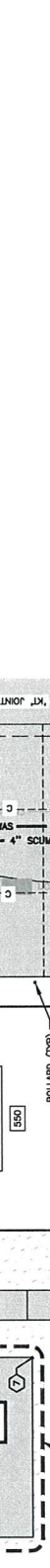
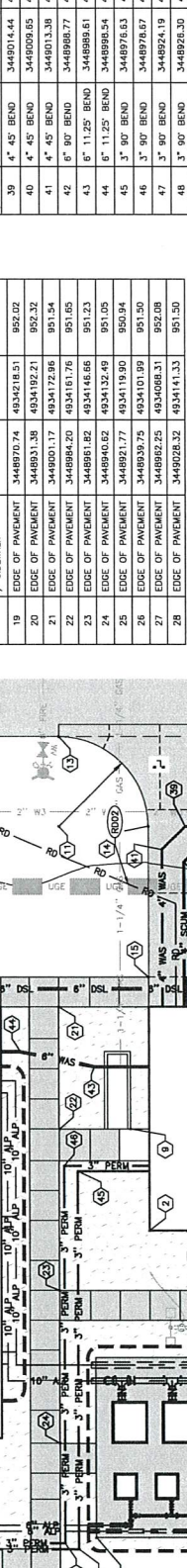
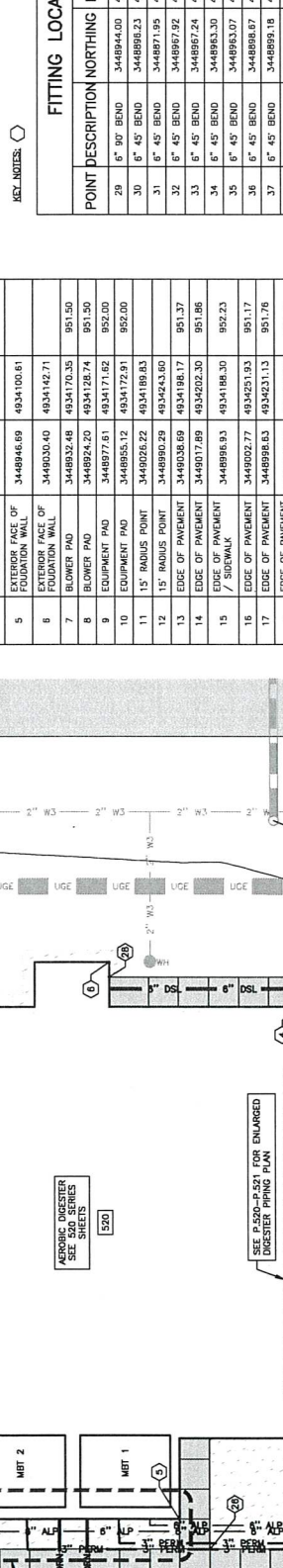
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	EXTERIOR FACE OF FOUNDATION WALL	3448973.51	4934214.35	951.50
2	EXTERIOR FACE OF FOUNDATION WALL	3448961.74	4934164.79	951.50
3	EXTERIOR FACE OF FOUNDATION WALL	3448988.74	4934051.99	952.00
4	EXTERIOR FACE OF FOUNDATION WALL	3448906.87	4934164.74	951.50
5	EXTERIOR FACE OF FOUNDATION WALL	3448946.89	4934100.61	951.50
6	EXTERIOR FACE OF FOUNDATION WALL	3448930.40	4934142.71	951.50
7	BLOWER PAD	3448932.48	4934170.35	951.50
8	BLOWER PAD	3448924.20	4934128.74	951.50
9	EQUIPMENT PAD	3448977.61	4934171.62	952.00
10	EQUIPMENT PAD	3448955.12	4934172.91	952.00
11	15' RADIUS POINT	3448926.22	4934189.83	951.50
12	15' RADIUS POINT	3448980.29	4934243.00	951.50
13	EDGE OF PAVEMENT / SIDEWALK	3449038.69	4934198.17	951.37
14	EDGE OF PAVEMENT / SIDEWALK	3449017.89	4934202.30	951.86
15	EDGE OF PAVEMENT / SIDEWALK	3448996.93	4934188.30	952.23
16	EDGE OF PAVEMENT / SIDEWALK	3449027.77	4934251.93	951.17
17	EDGE OF PAVEMENT / SIDEWALK	3448998.83	4934231.13	951.76
18	EDGE OF PAVEMENT / SIDEWALK	3448977.87	4934217.13	952.42
19	EDGE OF PAVEMENT / SIDEWALK	3448970.74	4934218.51	952.02
20	EDGE OF PAVEMENT / SIDEWALK	3448933.38	4934192.21	952.32
21	EDGE OF PAVEMENT / SIDEWALK	3449001.17	4934172.86	951.54
22	EDGE OF PAVEMENT / SIDEWALK	3448984.20	4934161.76	951.05
23	EDGE OF PAVEMENT / SIDEWALK	3448961.82	4934146.68	951.23
24	EDGE OF PAVEMENT / SIDEWALK	3448940.82	4934132.49	951.05
25	EDGE OF PAVEMENT / SIDEWALK	3448921.77	4934119.90	950.94
26	EDGE OF PAVEMENT / SIDEWALK	3448939.75	4934101.99	951.50
27	EDGE OF PAVEMENT / SIDEWALK	3448922.25	4934068.31	952.08
28	EDGE OF PAVEMENT / SIDEWALK	344928.32	4934141.33	951.50

**FITTING LOCATES**

POINT	DESCRIPTION	NORTHING	EASTING	INVERT ELEVATION
29	6" 90° BEND	3448944.00	4934214.35	935.90
30	6" 45° BEND	3448986.23	4934182.43	935.60
31	6" 45° BEND	3448971.95	4934182.26	935.45
32	6" 45° BEND	3448987.92	4934215.12	947.25
33	6" 45° BEND	3448967.24	4934216.17	947.25
34	6" 45° BEND	3448983.30	4934220.04	947.25
35	6" 45° BEND	3448983.07	4934217.00	947.25
36	6" 45° BEND	3448988.87	4934178.86	947.25
37	6" 45° BEND	3448991.18	4934174.50	947.25
38	4" 45° BEND	3449010.63	4934208.05	945.83
39	4" 45° BEND	3449014.44	4934207.46	945.83
40	4" 45° BEND	3449009.65	4934203.95	945.83
41	4" 45° BEND	3449013.38	4934202.10	945.83
42	6" 90° BEND	3448988.77	4934198.92	940.25
43	6" 11.25° BEND	3448988.61	4934172.35	949.00
44	6" 11.25° BEND	3448988.54	4934163.40	949.00
45	3" 90° BEND	3448976.63	4934160.31	934.88
46	3" 90° BEND	3448978.87	4934158.90	934.88
47	3" 90° BEND	3448924.19	4934125.27	934.88
48	3" 90° BEND	3448928.30	4934123.91	934.88

**GENERAL NOTES:**

- AREA PLAN IS INTENDED TO SHOW LOCATIONS AND ELEVATIONS FOR SITE ELEMENTS INCLUDING: STRUCTURES, SIDEWALKS, MISCELLANEOUS PAVEMENT, CURBS, GUTTERS, KEY GRADE LOCATES, AND PROCESS AND SANITARY SEWER FITTINGS.
- AREA PLAN DOES NOT PROVIDE INFORMATION REGARDING SITE ELECTRIC, FENCING, ENTRANCE AND LOOP ROAD PAVEMENT, UTILITY SPRING, AND STORM PIPING. SEE OTHER DRAWINGS FOR THIS INFORMATION. REFER TO RESPECTIVE CIVIL AND ELECTRIC DRAWINGS FOR INFORMATION.
- REFER TO RESPECTIVE SITE GRADING, PIPING, PUMP, ELECTRIC PLANS ETC. FOR ADDITIONAL CONSTRUCTION NOTES.
- SEE ARCHITECTURAL PLANS FOR STOODS AND BOLLARDS. SEE STRUCTURAL PLANS FOR EQUIPMENT PAWS.



**SITENETWORK AEROBIC DIGESTERS AREA PLAN**

SCALE: 0 10 1" = 10'

2" 550 SUMP DISCHARGE (DN) CONTRACTOR RESPONSIBLE TO ROUTE TO MANHOLE SURFACE

BOLLARD (TYP) TIE PAVEMENT INTO STOODS (TYP)

SOLDER PROCESSING BOLLARD (TYP) SEE SERIES SHEETS

SEE P-520 FOR ENLARGED BLOWER PIPING PLAN

SEE P-520 FOR ENLARGED MHT PIPING PLAN

SEE P-520 FOR ENLARGED DIGESTER PIPING PLAN

NO.	DATE	BY	REVISION DESCRIPTION

DRAWN BY: WHR & CLK JOB DATE: 2/20  
 APPROVED: MAR JOB NUMBER: 150473  
 CAD DATE: 11/19/2020 1:28:18 PM  
 CAD FILE: J:\DATA\150473\CAD\150473\_AEROBIC DIGESTERS AREA PLAN.dwg

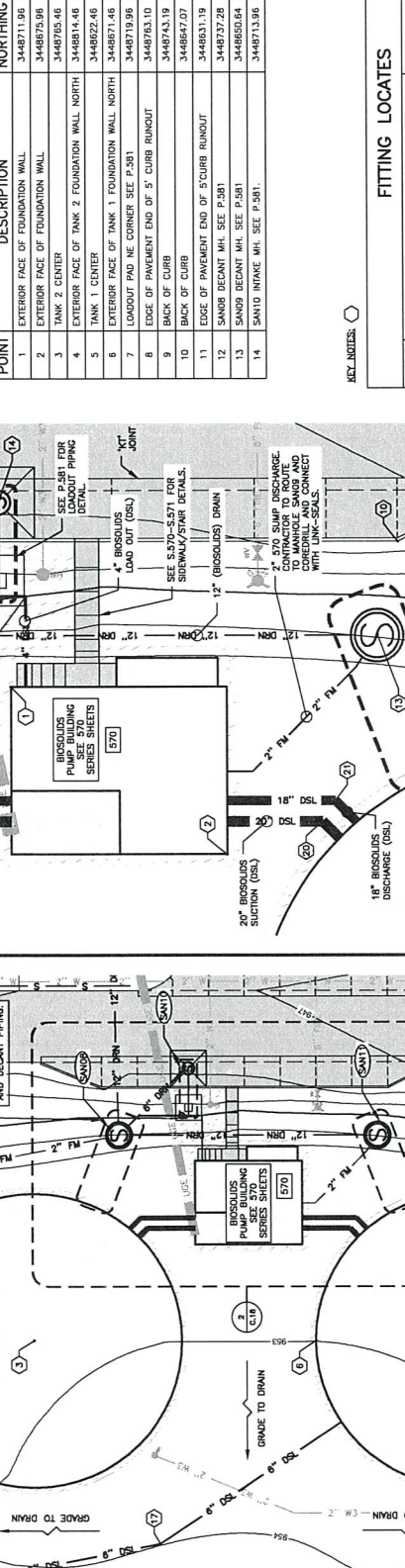
- GENERAL NOTES:**
- AREA PLAN IS INTENDED TO SHOW LOCATIONS AND ELEVATIONS FOR SITE ELEMENTS INCLUDING: STRUCTURES, SIDEWALKS, MISCELLANEOUS PAVEMENT, DRIVEWAYS, DRIVEWAYS, KEY GRADE LOCATES, AND PROCESS AND SANITARY SEWER FITTINGS.
  - AREA PLAN DOES NOT PROVIDE INFORMATION REGARDING SITE ELECTRIC, FENCING, ENTRANCE AND LOOP ROAD PAVEMENT, UTILITY PIPING, AND STORM PIPING. SITE ELEMENTS WITH NO INFORMATION PROVIDED OR SHOWN IN OTHER SHEETS OF THIS PLAN SHALL BE CONSIDERED AS NOT SHOWN. REFER TO RESPECTIVE CIVIL AND ELECTRIC DRAWINGS FOR INFORMATION.
  - REFER TO RESPECTIVE SITE, GRADING, PILING, PILING, ELECTRIC PLANS ETC. FOR ADDITIONAL CONSTRUCTION NOTES.
  - SEE ARCHITECTURAL PLANS FOR STOODS AND BOLLARDS. SEE STRUCTURAL PLANS FOR EQUIPMENT PAIS.

**STRUCTURE/GRADING LOCATES**

POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	EXTERIOR FACE OF FOUNDATION WALL	344871.96	4934316.90	
2	EXTERIOR FACE OF FOUNDATION WALL	344873.96	4934308.90	
3	TANK 2 CENTER	344876.96	4934276.93	
4	EXTERIOR FACE OF TANK 2 FOUNDATION WALL NORTH	344881.46	4934276.93	
5	TANK 1 CENTER	344882.46	4934276.93	
6	EXTERIOR FACE OF TANK 1 FOUNDATION WALL NORTH	344871.46	4934276.93	
7	LOADOUT PAD NE CORNER SEE P.581	344871.96	4934373.74	
8	EDGE OF PAVEMENT END OF 5' CURB ROUNDOUT	344873.10	4934369.76	947.43
9	BACK OF CURB	344873.19	4934361.26	948.00
10	EDGE OF PAVEMENT END OF 5' CURB ROUNDOUT	344883.19	4934369.76	948.00
11	SANDBY DECANT MH. SEE P.581	344860.64	4934345.50	
12	SANDBY INTAKE MH. SEE P.581	344871.96	4934367.74	

**FITTING LOCATES**

POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
15	6" 11.25' BEND	344895.37	4934215.06	946.99
16	6" 45' BEND	344892.16	4934192.07	947.25
17	6" 22.5' BEND	344872.86	4934209.18	947.25
18	6" 45' BEND	344873.96	4934276.93	947.25
19	18" 45' BEND	344859.92	4934314.39	944.50
20	20" 45' BEND	344859.92	4934314.39	944.50
21	18" 45' BEND	344857.78	4934317.90	944.50
22	4" 80' BEND ROTATED 11.25° ALONG HORIZONTAL AXIS	3448709.46	4934352.07	944.33
23	4" TEE WITH 4" BURIED PLUG VALVE	344871.96	4934352.07	944.33
24	6" 45' WYE	344870.70	4934352.07	944.00
25	6" 45' BEND	344865.30	4934219.94	939.25



**SITENWORK ENLARGED LOADOUT PIPING PLAN**  
SCALE: 1" = 10'

BIOSOLIDS STORAGE TANK 1  
BIOSOLIDS STORAGE TANK 2  
BIOSOLIDS STORAGE TANK 1  
BIOSOLIDS STORAGE TANK 2

**REVISIONS**

NO.	DATE	BY	REVISION DESCRIPTION
1	1/17/21	MW	REVISED PER ADDENDUM #2

DRWING BY: WHP & CITY  
DATE: 2/28/2021 9:24:51 AM  
JOB NUMBER: 180473  
CAD FILE: J:\2016\180473\CAD\Draw\A\C.C.18 BIOSOLIDS TANK AREA PLAN.dwg

BAR & ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON BAR & ONE INCH ON ORIGINAL DRAWING

180473  
2/28/2021 9:24:51 AM  
J:\2016\180473\CAD\Draw\A\C.C.18 BIOSOLIDS TANK AREA PLAN.dwg

1 TANK AREA PLAN  
SCALE: 1" = 20'

BIOSOLIDS STORAGE TANK 1  
BIOSOLIDS STORAGE TANK 2

**CONFORMED DOCUMENTS**

SHEET NO. **C.18**

SITE WORK  
**BIOSOLIDS TANK AREA PLAN**

NEVADA WWTF IMPROVEMENTS - PHASE 2  
CITY OF NEVADA  
NEVADA, IOWA

H2Green.com  
H2Green



## Kurtis Knapp

---

**From:** Roth, Michael <mroth@hrgreen.com>  
**Sent:** Wednesday, June 22, 2022 8:07 AM  
**To:** Kurtis Knapp  
**Cc:** Siefkas, Jesse; jordoh1996@yahoo.com; mtobin@tobinbrothers.com; 'David Diefendorf'; mick@mjoconnorinc.com  
**Subject:** Re: Nevada WWTF Building 550 Floor Drains  
**Importance:** High

Kurtis,  
Is the trench drain a side or bottom outlet?  
We also are not following the issue with the 3" permeate lines.  
Would it be possible to have a call later this afternoon to discuss?

Sincerely,  
Mike Roth

Get [Outlook for Android](#)

---

**From:** Kurtis Knapp <kurtis@wbci.us>  
**Sent:** Wednesday, June 22, 2022 7:11:55 AM  
**To:** Roth, Michael <mroth@hrgreen.com>  
**Cc:** Siefkas, Jesse <jsiefkas@hrgreen.com>; jordoh1996@yahoo.com <jordoh1996@yahoo.com>; mtobin@tobinbrothers.com <mtobin@tobinbrothers.com>; 'David Diefendorf' <dwesley101@gmail.com>; mick@mjoconnorinc.com <mick@mjoconnorinc.com>  
**Subject:** RE: Nevada WWTF Building 550 Floor Drains

**This email came from outside the HR Green organization. Please use caution when clicking on hyperlinks and opening attachments**

---

Mike,

Have you had a chance to look at this? We are in need of direction to move forward.

Thanks,

Kurtis Knapp  
Williams Brothers Construction Inc.  
Office: (309) 688-0416  
Cell: (815) 878-4845

---

**From:** Kurtis Knapp [mailto:kurtis@wbci.us]  
**Sent:** Friday, June 17, 2022 10:23 AM  
**To:** mroth@hrgreen.com  
**Cc:** Siefkas, Jesse; jordoh1996@yahoo.com; mtobin@tobinbrothers.com; 'David Diefendorf'; mick@mjoconnorinc.com  
**Subject:** Nevada WWTF Building 550 Floor Drains

Mike,

We are having more drain issues at Building 550 under slab after RFI-062. The plumbing drains cannot make it to the sump pits with 1/4"/ft fall going under the 3" permeate piping. There is also not adequate clearance above the 6" drain to go above the pipe and below rebar mat. When we initially looked at this we missed floor slope/drop in drain CL elevation at the trench drain which eliminates the space to go above the 6" so we are now out of options.

Please provide some direction on how to route the plumbing drains to the sump pit based on the fixed process pipe elevations.

Thanks,

Kurtis Knapp  
Williams Brothers Construction Inc.  
Office: (309) 688-0416  
Cell: (815) 878-4845