

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2013	2014	2015	2016	2017
Capital Expenditures	<u>\$277,780.62</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$277,780.62</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Budget Account No.: Fund 4011 Dept 721 Org W031 Object 6547

Is Item Included in Current Budget? Yes No

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time operating expenditure from the user fees and balance brought forward.

C. Department Fiscal Review: Delia M. West

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

[Signature] 11/2/12
OFMB
SD 11/1
11/1

[Signature] 11/5/12
Contract Development and Control
11-19-16 B. Whitt

B. Legal sufficiency:

[Signature] 11/20/12
Assistant County Attorney

C. Other Department Review:

Department Director


This summary is not to be used as a basis for payment.

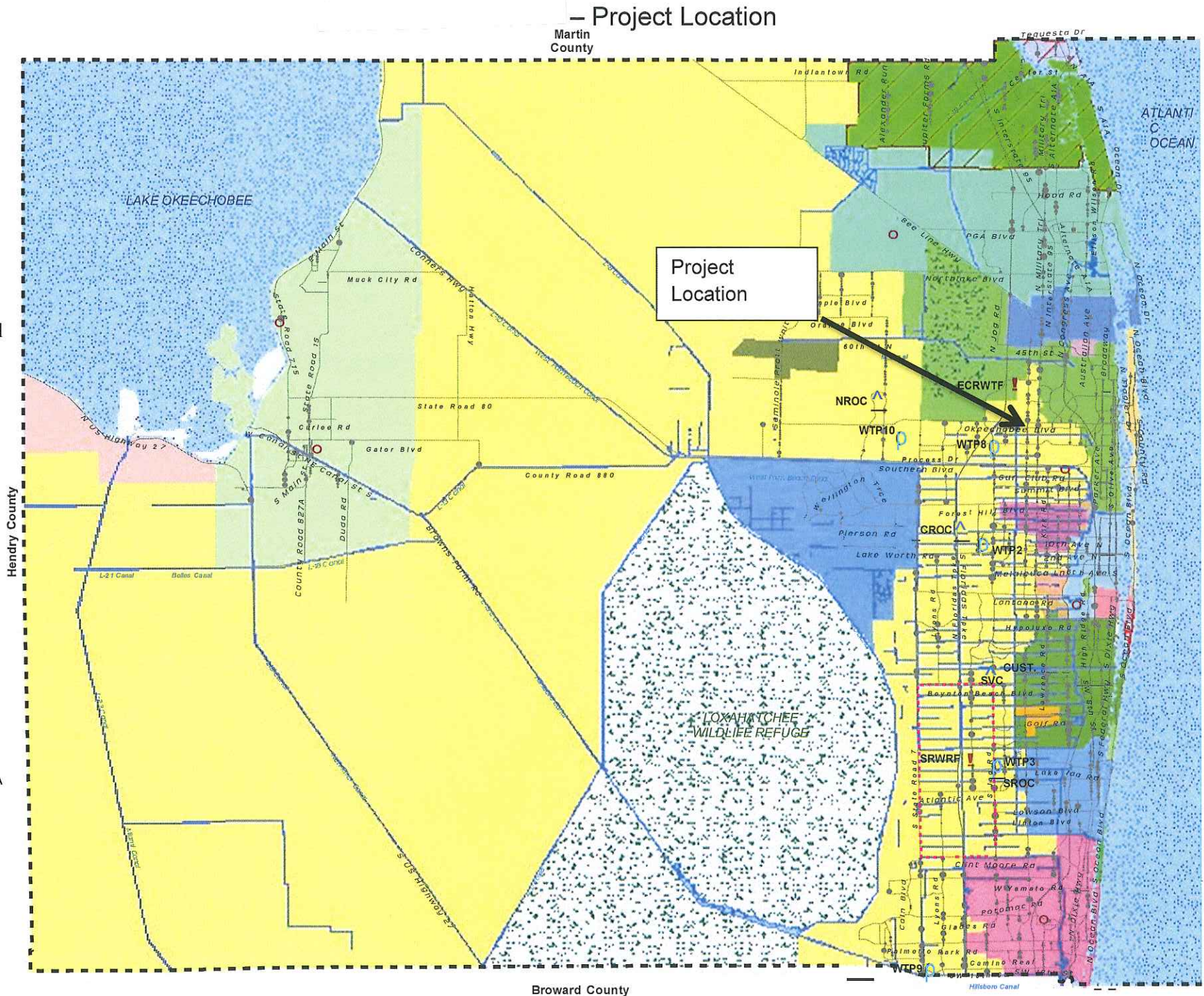


**Palm Beach County
Water Utilities
Department
Service Area (SA) and
Major Facilities**

Attachment 1

Legend

- - - MANDATORY RECLAIMED SA
-  Water Treatment Facility
-  Administration
-  Water Reclamation Facility
-  COUNTY LIMITS
-  P.B.C.W.U.D. SA



WORK AUTHORIZATION NO.6

Project No. WUD 12-061

Budget Line Item No. 4011-721-W031-654\1

Project Title: Pump Station 5241 Improvements

District No.: 2

THIS AUTHORIZATION No. 06, to the Contract Water, Wastewater and Reclaimed Water Improvements Design-Build Services dated January 24, 2012 with an effective date of January 24, 2012 (Design/Build Contract R2012-0159), by and between Palm Beach County and the Design-Build Entity identified herein, is for the Construction Services described in Item 3 of this Authorization. The Contract provides for 75% SBE participation overall. This Work Authorization includes 100.00% overall participation. The cumulative SBE participation, including this authorization is 81.46% overall.

1. DESIGN-BUILD ENTITY: Globaltech, Inc.
2. ADDRESS: 1075 Broken Sound Pkwy NW, Suite 103, Boca Raton, FL 33487
3. Description of Services to be provided by the Design-Build Entity:

Provide Design-Build services for replacement of existing pump discharge control valves and addition of thrust restraints on existing piping. The existing control valves consist of hydraulically actuated plug valves that are aging and have exhibited failure. PBCWUD desires to replace the hydraulic system and plug valves with manual check valves.

See EXHIBIT "A".
4. Services completed by the Design-Build Entity to date:

See ATTACHMENT "E".
5. Design-Build Entity shall begin work promptly on the requested services.
6. The compensation to be paid to the Design-Build Entity for providing the requested services shall be:
 - A. Computation of time charges plus expenses, not to exceed \$ N/A
 - B. Fixed price of \$277,780.62
7. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Design-Build Entity, the Design-Build Entity shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.
8. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 01/24/12 with an effective date of 01/24/12 remain in full force and effect.

WA-6 / Pump Station 5241 Improvements

Attachment # 2

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida, has made and executed this Contract on behalf of the said County and caused the seal of the said County to be affixed hereto, and the Design-Build Entity has hereunto set his hand and seal the day and year written. The Design-Build Entity represents that it is authorized to execute this contract on behalf of itself and its Surety.

ATTEST:

SHARON R. BOCK
CLERK AND COMPTROLLER

PALM BEACH COUNTY, FLORIDA, A POLITICAL
SUBDIVISION OF THE STATE OF FLORIDA
BOARD OF COUNTY COMMISSIONERS

By: _____
Chair

APPROVED AS TO FORM AND LEGAL
SUFFICIENCY

APPROVED AS TO TERMS AND
CONDITIONS

Assistant County Attorney

Bevin A. Beaudet
Bevin A. Beaudet, Director
Water Utilities Department

GLOBALTECH, INC.

Richard D. Olson
(Witness signature)

By: [Signature]
Title: President
Florida
(Insert state of corporation)

RICHARD D. OLSON
(Witness name printed)

September 27, 2012
(Date of execution)

[Signature]
(Witness signature)

David Schuman
(Witness name printed)

1075 Broken Sound Pkwy NW, Suite 103
Boca Raton, FL 33487
(Design-Build Entity's City, State, Zip Code)

(Corporate Seal)

EXHIBIT - A

WORK AUTHORIZATION NO.6

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT DESIGN-BUILD SERVICES

SCOPE OF WORK FOR PUMP STATION 5241 IMPROVEMENTS

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Water, Wastewater & Reclaimed Water Improvements Design/Build Contract - Palm Beach County Utilities Department Project No. WUD 11-134 (CONTRACT) with **Globaltech, Inc.** (DESIGN-BUILD ENTITY) to provide design-build services for various general activities on (Design/Build Contract R2012-0159). This Work Authorization will be performed under that CONTRACT.

Globaltech has completed a Technical Memorandum under CSA-2 of the Contract which recommended replacement of existing pump discharge control valves and piping improvements. Drawings were provided which depicted the items of work scope.

SCOPE OF SERVICES

This project involves demolition of three existing 24-inch pump discharge control valves, hydraulic accumulator, hydraulic piping and controls; installation of three new 24-inch manual (swing) check valves; modification of existing pump discharge piping to accommodate laying length of new valves; addition of thrust restraint device to existing discharge riser pipe sleeve coupling at (Future) Pump No. 4; and removal of existing 48-inch suction gate valve parts in the lower level pump room.

The Scope of Services includes administrative and engineering services in support of the construction of the Work and Record Drawing preparation. This project will be designed and constructed in accordance with the Palm beach county Water Utilities Department Manual of Minimum Engineering Standards.

Description of Services

Task 1 – Administrative and Engineering Services

1. Attend kick-off meeting with staff and receive notice to proceed (NTP) prior to start of construction.
2. Prepare detailed construction schedule to include as a minimum; engineering and permitting services, site mobilization, detailed construction activities, scheduled shutdowns and durations, equipment/material delivery times, testing, startup and commissioning.
3. Prepare submittals (or confirmation of compliance with PBCWUD design standards), administer and track submittal process.
4. Schedule meetings, inspections, and testing with PBCWUD staff.

5. Provide Engineer's site visits during construction to confirm construction is being performed in conformance with the Design Drawings and Specifications.
6. Prepare Record Drawings and O&M Manuals at close of project.

Task 2 – Construction Services

1. Establish staging areas with staff at the site; mobilize to site.
2. Procure equipment and construct facilities. Improvements are based on the Technical Memorandum from CSA-2 of the Contract previously submitted to the PBCWUD. The specific improvements include the following:
 - a. Prepare access to lower pump room level from ground floor level for the purpose of removing demolished facilities and installing new equipment. Preparation includes de-constructing existing floor grating and grating support beams at two locations.
 - b. In accordance with the sequence of construction agreed upon by staff, remove existing hydraulic accumulator and control system including supply and return piping, control panels, and electrical and instrumentation and controls features. Existing power supply shall be terminated at the package system location in accordance with code requirements.
 - c. Remove existing hydraulic actuator, 24-inch plug valve, and downstream 24"x36" reducer and 36-inch spool piece at each pump location. 24"x36" reducer shall be reused. Work with staff to develop plan for operating existing wetwell jockey pump to provide dewatering of the wetwell as required to maintain levels below the pump working elevation.
 - d. Modify existing concrete pipe/reducer support to accommodate new reducer and spool piece laying length. Install new check valve, existing 24"x36" reducer, and new 36-inch spool piece between existing pump and 90 deg elbow at base of pump discharge riser at three locations.
 - e. Install new pipe thrust restraint assembly on (Future) Pump No. 4 discharge riser pipe at existing dresser-style coupling as indicated in attached TM.
 - f. Prepare surfaces and apply new coating system to new piping, valves, equipment, and modified concrete support structure and areas affected by demolition
 - g. Remove existing (disassembled) 48-inch suction gate valve bonnet, discs, and miscellaneous parts from the lower level pump room.
 - h. Modify existing control system to eliminate existing discharge valve control logic from pump START/STOP sequence. Connect new check valve limit switch to existing limit switch supervisory circuit. Control modifications based on limit switch operation will be coordinated with Staff.
 - i. Commission each valve train in sequence and provide manufacturer's startup and training services.
 - j. Reinstall floor grating framing members and reinstall floor grating

- k. Supply PBCWUD with scissor lift purchased from rental company at close of contract. Globaltech will solicit a quotation from the rental company for the scissor lift used by our forces for the work, including training and a standard warranty provided for used equipment meeting the general specifications provided in the TM. A "used" scissor lift up to a price of \$12,000 and acceptable to PBCWUD will be purchased at the end of the project. If funds remain in the Construction Allowance at the end of the project, PBCWUD may elect to apply the additional funding to the equipment purchase line item and purchase a new scissor lift. Any unused funds for the equipment purchase will be returned to PBCWUD at project close out.
- l. Cleanup worksite and demobilize.
- m. Prepare record drawings and O&M Manuals.

ASSUMPTIONS

1. A PBCHD or building permit will not be required.
2. PBCWUD will review all submittals and provide comments within one calendar week and notify Globaltech of status.
3. Existing wetwell jockey pump and temporary piping will provided adequate capacity to maintain wetwell level below the pump/piping working elevation
4. PBCWUD will dispose of hydraulic fluid in accumulator and piping system prior to demolition
5. All materials removed during demolition will become the responsibility and property of Globaltech and will be removed from the site and disposed of properly.
6. Liquidated Damages may be assessed for up to \$1,000 per day up to Substantial Completion and up to \$500 per day from Substantial Completion to Final Completion.
7. An allowance of \$25,000 is included.

COMPENSATION

Compensation for Work Authorization No. 6 will not exceed the Lump Sum Amount (inclusive of allowances) of \$277,780.62. Attachment A provides the cost breakdown and fee. Attachment A is subdivided to summarize engineering and construction services.

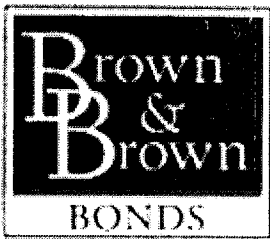
PROJECT SCHEDULE

The milestone completion schedule is provided in Attachment B.

M/WBE PARTICIPATION

As prescribed under Provision A.3 of the CONTRACT, SBE-M/WBE participation is included in Attachment C under this Authorization. Schedule 1 to Attachment C defines the M/WBE participation.

ATTACHMENT – A	Compensation Summary
ATTACHMENT – B	Project Schedule
ATTACHMENT – C	SBE Schedule 1
ATTACHMENT – D	Project Location Map
ATTACHMENT – E	Authorization Status Report
ATTACHMENT – F	Vendor Quote
ATTACHMENT – G	Technical Memorandum



Brown & Brown of Florida, Inc.
1201 W. Cypress Creek Road, Ste 130 (Zip: 33309)
P.O. Box 5727
Fort Lauderdale, FL 33310-5727
954/776-2222 • FAX 954/772-7542
Statewide 1-800/339-0259

October 15, 2012

Globaltech, Inc.
Attn: Paul Gandy
1075 Broken Sound Pkwy NW #103
Boca Raton, FL 33487

RE: Palm Beach County BOCC, Pump Station 5241 Improvements, \$277,780.62

Dear Paul:

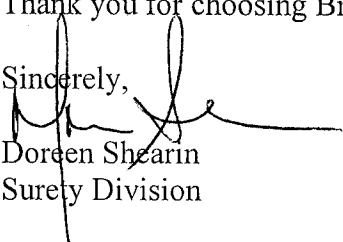
Enclosed please find the NEC for the above captioned project, per your request. Also enclosed is a "Duplicate Original" for recording with the appropriate clerk of courts. Please forward a copy of the complete contract at your earliest convenience.

Since the contract is not yet dated, we did not date the bonds or powers of attorney. We hereby authorize either you or the obligee to insert the dates on both the bonds and the powers of attorney once the contract is dated. You can date the bonds and powers the same date as the contract if you'd like.

Should you have any questions in this regard, please do not hesitate to contact either Christopher M. Moore, CPCU or me at 1-800-648-9303.

Thank you for choosing Brown & Brown for your Surety Bonding needs.

Sincerely,


Doreen Shearin
Surety Division

PUBLIC CONSTRUCTION BOND

BOND NUMBER: K08687304

BOND AMOUNT: \$277,780.62

CONTRACT AMOUNT: \$277,780.62

CONTRACTOR'S NAME: Globaltech, Inc.

CONTRACTOR'S ADDRESS: 1075 Broken Sound Parkway, NW
Suite #103
Boca Raton, FL 33487

CONTRACTOR'S PHONE: 561-997-6433

SURETY COMPANY: Westchester Fire Insurance Company

SURETY'S ADDRESS: 436 Walnut Street, WA10F
Philadelphia, PA 19106

OWNER'S NAME: PALM BEACH COUNTY WATER UTILITIES DEPT.

OWNER'S ADDRESS: 8100 Forest Hill Boulevard (P. O. Box 16097)
West Palm Beach, FL 33416

OWNER'S PHONE: (561) 493-6000

DESCRIPTION OF WORK: Pump Station 5241 Improvements

PROJECT LOCATION: PBCWUD Pump Station #5241, West Palm Beach, FL

LEGAL DESCRIPTION: Pump Station 5241 Improvements – Contract Number WUD 12-061

PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto

Palm Beach County Board of County Commissioners
301 N. Olive Avenue
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of

Dollars (\$277,780.62)

(Two-hundred and seventy-seven-thousand, seven-hundred and eighty dollars and sixty-two cents)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____, entered into a contract with the County for

Project Name: Pump Station 5241 Improvements
Project No.: WUD 12-061

Project Description: **This project includes design-build services for the replacement of existing pump discharge control valves and addition of thrust restraints on existing piping.**

Project Location: PBCWUD Pump Station #5241, West Palm Beach, FL

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: Globaltech, Inc.
Location of Firm: Boca Raton, FL 33487
Phone: 561-997-6433
Fax: 561-997-5811

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

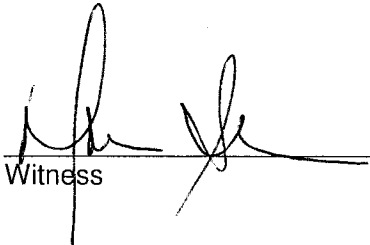
1. Performs the contract dated _____, between Principal and County for the design and construction of the Pump Station 5241 Improvements, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and

2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and
4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.
5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.
6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.
7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.
8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.
9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

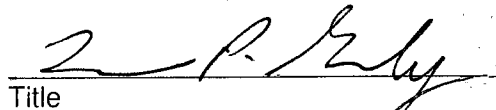


 Witness

Principal Globaltech, Inc. (Seal)

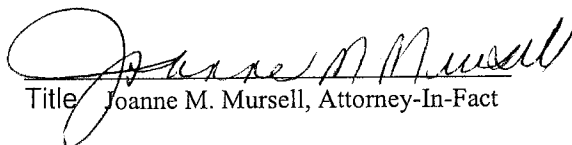


 Witness



 Title

Surety Westchester Fire Insurance (Seal)
 Company



 Title Joanne M. Mursell, Attorney-In-Fact

FORM OF GUARANTEE

GUARANTEE FOR (Contractor and Surety Name) Globaltech, Inc. and Westchester Fire Insurance Company.

We the undersigned hereby guarantee that **Pump Station 5241 Improvements (WUD 12-061)**. Palm Beach County, Florida, which we have constructed and bonded, has been done in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within a period of one year from the date of Substantial Completion of all of the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. When correction work is started, it shall be carried through to completion.

In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

DATED _____
(notice of completion filing date)

SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY

Countersigned Resident Agent in Florida: Globaltech, Inc. (Seal)
(Contractor)

Joanne M. Mursell, Florida Resident Agent
(Agent)

By: [Signature]
(Signature)

By: [Signature]
(Signature)

Westchester Fire Insurance Company (Seal)
(Surety)

By: [Signature]
(Signature)
Joanne M. Mursell, Attorney-In-Fact

END OF SECTION

Power of Attorney

WESTCHESTER FIRE INSURANCE COMPANY

Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to wit:

RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.


FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint Gerald J. Arch, James F. Murphy, Joanne M. Mursell, Michael A. Holmes, Shawn A. Burton, all of the City of FT LAUDERDALE, Florida, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Ten million dollars & zero cents (\$10,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office.

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 8 day of February 2012.

WESTCHESTER FIRE INSURANCE COMPANY

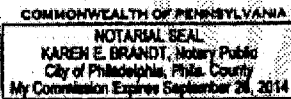



Stephen M. Haney, Vice President

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF PHILADELPHIA ss.

On this 8 day of February, AD 2012 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney, Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.




Karen E. Brandt
Notary Public

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this _____ day of _____




William L. Kelly, Assistant Secretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER February 08, 2014.

THE BACK OF THIS DOCUMENT LISTS VARIOUS SECURITY FEATURES

THAT WILL PROTECT AGAINST COPY COUNTERFEIT AND ALTERATION.

ATTACHMENT A

Compensation Summary

ATTACHMENT - A
WA-6 Pump Station 5241 Improvements

Compensation Summary

Task	Task Description	E6	E6	E5	E4	T5	Office	Office	Total Labor	*Sub-Consultant Services	Sub-Consultant
		\$64.90	\$58.90	\$57.69	\$42.30	\$36.00	\$23.32	\$20.00			
1	Project Management/Coordination										
	Project Management	8			4		4				
	Subcontractor Coordination				6			4			
	Scheduling				2						
	Subtotal Task 1	8	0	0	12	0	4	4	\$ 1,200.08	\$ -	
2	Limited Record Drawings										
	Limited Record Drawings	4			4	8	2				
	Subtotal Task 2	4	0	0	4	8	2	0	\$ 763.44	\$ -	
	Labor Hours	12	0	0	16	8	6	4			
	Labor Costs	\$778.80	\$0.00	\$0.00	\$676.80	\$288.00	\$139.92	\$80.00	\$1,963.52		
	Labor Multiplier	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
	Labor Total	\$2,336.40	\$0.00	\$0.00	\$2,030.40	\$864.00	\$419.76	\$240.00	\$5,890.56		
	Subconsultant Total									\$ -	
	Subconsultant Multiplier									1.1	
	Subcontract Total									\$ -	
	Reimbursable Expenses									\$109.44	
	ENGINEERING TOTAL									\$6,000.00	



Takeoff Worksheet

09/28/12

PBC Water Utilities Department
120336 PBC PS 5241 Impr. WA

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	Markup*	Ext. Price
Job: 120336 PBC PS 5241 Impr. WA							
Bid Item: 1 General Requirements							
1	Temporary Facilities	LOT	1.00	192.0000			
L	Sanitary	Month	2.00	96.0000	192.00	1.1500	234.05
2	General Conditions	LOT	1.00	15,715.9330			
L	Submittal Labor	HR	10.00	63.1400	631.40	1.2992	820.31
L	Progress Meeting	HR	8.00	64.7100	517.68	1.2992	672.57
L	Scheduling Labor	HR	10.00	63.1400	631.40	1.2992	820.31
L	Construction PM	HR	135.00	63.1400	8,523.90	1.2992	11,074.25
L	Punch Out Crew	CR-D	2.00	1,014.3000	2,028.60	1.2992	2,635.56
L	Testing Services	LOT	1.00	250.0000	250.00	1.1500	287.50
L	Safety Equipment	LOT	1.00	1,175.0000	1,175.00	1.1500	1,432.33
L	Safety Manager	HR	16.00	63.1830	1,010.93	1.2992	1,313.40
L	Purchasing & Subcontracts	HR	15.00	63.1350	947.03	1.2992	1,230.37
Bid Item Totals:					15,907.94		20,520.65
Bid Item: 2 Demo							
2051	Demolition Concrete Pipe Supports	LOT	1.00	4,991.3000			
L	Demo Pipe Supports	CR-D	3.00	1,247.1000	3,741.30	1.1865	4,439.05
L	Rental Equipment General	LOT	1.00	1,250.0000	1,250.00	1.1550	1,530.38
2051	Demo Hydraulic System	LOT	1.00	2,494.2000			
L	4 Man Crew	CR-D	2.00	1,247.1000	2,494.20	1.1865	2,959.37
2051	Demolition Remove Pipe and Fittings	LOT	1.00	3,741.3000			

Takeoff Worksheet

09/28/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	Markup*	Ext. Price
L	4 Man Crew	CR-D	3.00	1,247.1000	3,741.30	1.1865	4,439.05
				Bid Item Totals:	11,226.80		13,367.85
Bid Item:	3 Concrete						
3300	Concrete Pipe Supports	LOT	1.00	8,385.5000			
L	Forms and Rebar	LOT	1.00	750.0000	750.00	1.1500	914.25
L	Form New Pipe Supports & Dowel Rebar	CR-D	3.00	1,247.1000	3,741.30	1.2992	4,860.70
L	Cast In Place Concrete	LOT	6.00	150.0000	900.00	1.1500	1,097.10
L	Place & Finish Concrete	CR-D	1.00	1,247.1000	1,247.10	1.2992	1,620.23
L	Concrete Pump	LOT	1.00	500.0000	500.00	1.1500	609.50
L	Strip forms & Rub	CR-D	1.00	1,247.1000	1,247.10	1.2992	1,620.23
				Bid Item Totals:	8,385.50		10,722.01
Bid Item:	9 Coatings						
9000	Finishes	LOT	1.00	7,785.5000			
L	Coatings	LOT	1.00	1,050.0000	1,050.00	1.1500	1,279.95
L	Coat Piping	CR-D	5.00	1,247.1000	6,235.50	1.2992	8,101.16
L	Scallfolding	LOT	1.00	500.0000	500.00	1.1500	609.50
				Bid Item Totals:	7,785.50		9,990.61
Bid Item:	11 Equipment						
	Scissor-Lift Purchase Allowance	EA	1.00	12,000.0000	12,000.00	1.1500	13,800.00
				Bid Item Totals:	12,000.00		13,800.00
Bid Item:	15 Mechanical						
15050	Flanged Piping & Valves	LOT	1.00	116,765.5300			
L	Piping General	LOT	3.00	25,546.6700	76,640.01	1.1500	93,424.17
L	Piping General	LOT	1.00	21,419.0200	21,419.02	1.1500	26,109.78
L	Install Pipe, Fittings & Valves	CR-D	15.00	1,247.1000	18,706.50	1.2992	24,303.48
15050	Restrain Exisiting Line	LOT	1.00	5,447.1000			

Takeoff Worksheet

09/28/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	Markup*	Ext. Price
L	Piping General	LOT	1.00	4,200.0000	4,200.00	1.1500	5,119.80
L	Restrain Existing Line	CR-D	1.00	1,247.1000	1,247.10	1.2992	1,620.23
Bid Item Totals:					122,212.63		150,577.46
Bid Item:	16 Electrical						
	Electrical Sub	LOT	1.00	4,250.0000	4,250.00	1.1000	4,675.00
Bid Item Totals:					4,250.00		4,675.00
Bid Item:	18 Rental Equipment						
18001	Tools & Consumables	LOT	1.00	1,500.0000			
L	Misc Tools	LOT	1.00	500.0000	500.00	1.1500	609.50
L	Misc Materials & Dunnage	LOT	1.00	1,000.0000	1,000.00	1.1500	1,219.00
18002	Rental Equipment	LOT	1.00	14,150.0000			
L	Carry deck Crane	LOT	1.00	8,000.0000	8,000.00	1.1500	9,752.00
L	Fuel	GAL	500.00	4.5000	2,250.00	1.0000	2,250.00
L	8 Ton Rigger	LOT	2.00	500.0000	1,000.00	1.1500	1,219.00
L	Warehouse forklift	LOT	2.00	1,200.0000	2,400.00	1.1500	2,925.60
L	Fuel	LOT	1.00	500.0000	500.00	1.1500	609.50
Bid Item Totals:					15,650.00		18,584.60
Bid Item:	25 Allowance						
	Allowance	LOT	1.00	25,000.0000	25,000.00	1.0000	25,000.00
Bid Item Totals:					25,000.00		25,000.00
Bid Item:	50 Engineering						
	Engineering	LOT	1.00	6,000.0000	6,000.00	1.0000	6,000.00
Bid Item Totals:					6,000.00		6,000.00
Bid Item:	60 Bonds						
	Bonds & Certifications	LOT	1.00	3,949.9500	3,949.95	1.1500	4,542.44
Bid Item Totals:					3,949.95		4,542.44

Takeoff Worksheet

09/28/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	Markup*	Ext. Price
					Grand Totals:	232,368.32	277,780.62

Note: All materials include an additional 6.0% markup for FL State sales tax.

** Materials = 15%, Subcontractors = 10%, Labor at Burden = 29.92% (12% G&A x 16% Profit & Overhead)*

ATTACHMENT - B

PROJECT SCHEDULE

SCHEDULE

The completion dates for this work will be as follows (starting from DESIGN-BUILD ENTITY'S receipt of Notice to Proceed).

<u>Design-Build Services</u>	<u>Substantial Completion</u> ⁽¹⁾	<u>Final Completion</u> ⁽¹⁾
Engineering		2 Weeks
Procurement		8 Weeks
Installation	16 Weeks	20 Weeks
Startup Services		20 Weeks

⁽¹⁾ *Dependent on permitting*

ATTACHMENT C

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME:	<u>WA#6 - Pump Station 5241 Improvements</u>	PROJECT NUMBER:	<u>WUD 12-061</u>
NAME OF PRIME BIDDER:	<u>Globaltech, Inc.</u>	ADDRESS:	<u>1075 Broken Sound Parkway NW, Suite 103, Boca Raton, FL 33487</u>
CONTACT PERSON:	<u>Paul Gandy, P.E.</u>	PHONE NO.	<u>561-997-6433</u> FAX NO. <u>561-997-5811</u>
BID OPENING DATE:	_____	DEPARTMENT:	_____

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

Name, Address, Telephone Number of SBE-W/MBE Contractor	(Check one or both Categories)		Dollar Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
Globaltech, Inc. (See above for Address and Number)		✓	\$0.00	\$0.00	\$0.00	\$273,530.62	\$0.00
Energy Efficient Electric, Inc. 1600 Nercer Avenue, Unit 6 West Palm Beach, FL 33401		✓	\$0.00	\$0.00	\$0.00	\$4,250.00	\$0.00
PRIME CONTRACTOR TO COMPLETE:		TOTAL:	\$0.00	\$0.00	\$0.00	\$277,780.62	\$0.00
BID PRICE: <u>\$277,780.62</u>		Total Value of SBE Participation:	<u>\$277,780.62</u>				

NOTE:

1. The amount listed on this form for a Subcontractor must be supported by price or percentage included on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both a SBE and M/WBE, please indicate the dollar amount under the appropriate category.
3. M/WBE information is being collected for tracking puposes only.

ATTACHMENT C

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 12-061 PROJECT NAME: WA 6 – Pump Station 5241 Improvements

TO: Globaltech, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise Minority Business Enterprise _____

Black _____ Hispanic _____ Women _____ Caucasian _____ Other (Please Specify) _____

Date of Palm Beach County Certification: September 4, 2012

The undersigned is prepared to perform the following described work in connection with the above project
(Specify in detail, particular work items or parts thereof to be performed):

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
<u>1</u>	<u>Electrical Contracting Services</u>	<u>L.S.</u>	<u>1</u>	<u>\$4,250.00</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

at the following price \$4,250 (Four thousand two hundred fifty dollars)
(Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ _____.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Energy Efficient Electric, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: 
(Signature)

Bill Scott – Vice President
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: September 26, 2012

**Palm Beach County
Office of Small Business Assistance**

Certifies That

ENERGY EFFICIENT ELECTRIC, INC.

Vendor # VC0000130772

*is a Small Business Enterprise as prescribed by section 2-80.21 – 2-80.35 of the Palm Beach
County Code for a three year period from September 4 2012 to September 3, 2015*

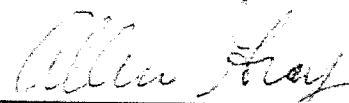
The following Services and/or Products are covered under this certification:

**ELECTRICAL (NEW CONSTRUCTION);
WIRING AND OTHER ELECTRICAL MAINTENANCE AND REPAIR SERVICES**

Palm Beach County Board of County Commissioners

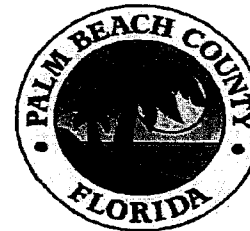
Shelley Vana, Chair
Steven L. Abrams, Vice Chairman
Karen T. Marcus
Paulette Burdick
Burt Aaronson
Jess R. Santamaria
Priscilla A. Taylor

County Administrator
Robert Weisman
Deputy County Administrator
Verdenia C. Baker

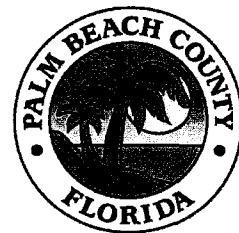


Allen F. Gray, Manager

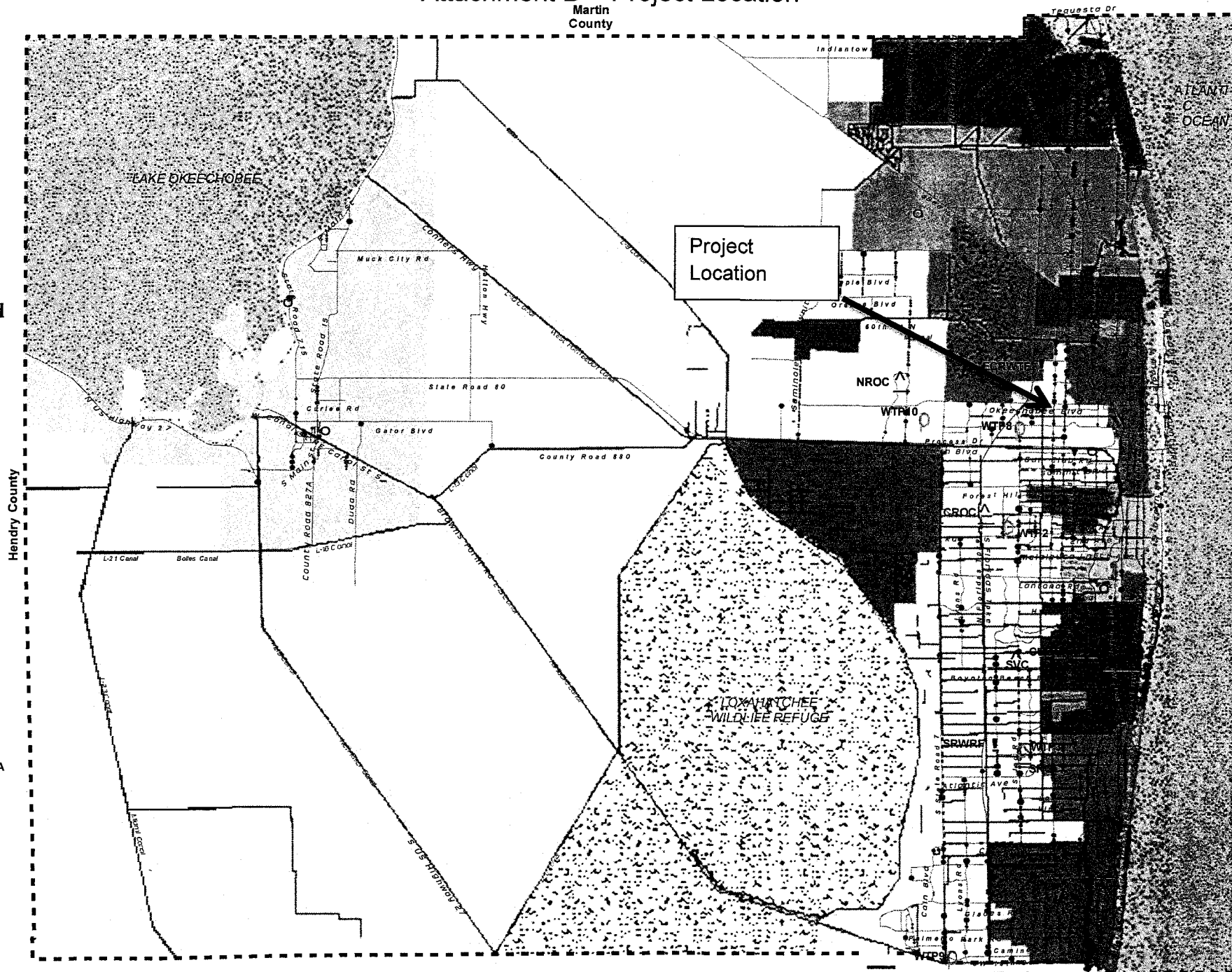
9/4/2012



Attachment D – Project Location



**Palm Beach County
Water Utilities
Department
Service Area (SA) and
Major Facilities**



Legend

- MANDATORY RECLAIMED SA
- Water Treatment Facility
- △ Administration
- ⌊ Water Reclamation Facility
- - - COUNTY LIMITS
- P.B.C.W.U.D. SA

ATTACHMENT - E

AUTHORIZATION STATUS REPORT WATER, WASTEWATER, AND RECLAIMED WATER IMPROVEMENTS DESIGN-BUILD SERVICES CONTRACT

SUMMARY AND STATUS OF SBE / MINORITY BUSINESS TRACKING SYSTEM

WA-6: Pump Station 5241 Improvements (WUD 12-061)

	Total
Current Proposal	
Value of Consultant Service Authorization	\$0.00
Value of Work Authorization	\$277,780.62
Value of CSA and WA	\$277,780.62
Value of SBE Minority Letter of Intent	\$277,780.62
Actual Percentages	100.00%
Signed / Approved Authorizations	
Total Value of Approved Consultant Service Authorization	\$117,612.21
Total Value of Approved Work Authorization	\$1,449,277.31
Total Value of CSAs and WAs	\$1,566,889.52
Total Value of SBE Signed Subcontracts	\$1,224,937.52
Actual Percentages	78.17%
Signed Authorizations Plus Current Proposal	
Total Value of Approved CSAs Plus Current CSA Proposal	\$117,612.21
Total Value of Approved WAs Plus Current WA Proposal	\$1,727,057.93
Total Value of Approved and Proposed CSAs and WAs	\$1,844,670.14
Total Value of SBE Subcontracts and Letters of Intent	\$1,502,718.14
Actual Percentages	81.46%
GOAL	75%

ATTACHMENT F

**Vendor Quotes
(Provided in Technical Memorandum)**

ATTACHEMENT G

Technical Memorandum

DATE: September 27, 2012
TO: PBCWUD
FROM: Paul Gandy, PE/Globaltech, Inc.
SUBJECT: PS 5241 Improvements – Check Valve Replacement

Introduction

Pump Station (PS) 5241, located on Haverhill Road immediately south of Okeechobee Blvd (SW corner), serves as an inline booster pump station for wastewater flows in the 48-inch forcemain along Haverhill Road ultimately discharging at the ECRWRF. The pump station was originally constructed in 1975 and now serves as a backup pump station in the event of upstream pump station failures (PS 5229). Although the pump station is on standby status, reliability is essential in the event it is needed for emergency full time service for an interim period.

Presently, reliability has been compromised by the failing hydraulically actuated discharge check valves which have been in service since original construction. This Technical Memorandum (TM) summarizes the state of the existing valves and provides a recommendation for replacement. Ancillary issues including access for pump shaft maintenance and restraint of existing piping is addressed.

Background

PS 5241 currently has three dry-pit centrifugal pumps installed with space for a future fourth pump including suction and discharge piping and valves with blind flanges (no check valve). Installation of a fourth pump is not being considered now nor in the foreseeable future. Although the station has three operable pumps at present, none can be used due to the failing discharge check valves. Figure 1 shows the pump room floor plan.

The check valve system consists of discharge plug valves which are hydraulically actuated based on control signals as part of the startup/shutdown sequence. The system includes a Dezurik reduced port plug valve with hydraulic actuator and position indicator at each pump, discharge check valve control panel at each pump, packaged oil accumulator/hydraulic pressure unit, and hydraulic fluid supply and return piping, fittings, and valves between the oil accumulator and the valve control panels and valve actuators. Currently, one check valve is frozen shut and cannot be opened under actuator force; one check valve has a failed actuator; and the third check valve is operational.

Replacement parts are getting increasingly difficult to locate and extensive downtime is required for frequent repairs of the aging system. Additionally, given limited access it is difficult to safely handle the heavy replacement components required for system renewal and repair. Since the department has moved to stand-alone swing check valves with limit switches for open/close indication as the standard arrangement, the failing system will be replaced with new standard equipment.

During review of the station it was discovered that the future Pump No. 4 discharge riser has an unrestrained Dresser style sleeve-coupling at the wall penetration and does not have the benefit of an offsetting force (opposing moment) in the future pump discharge line as do Pumps 1 through 3. This line is normally exposed to forcemain pressures and could be dislodged by unexpected high pressure due to surge or unintended shut-off heads.

Also, during station review and discussions with staff it was discovered that access is limited for servicing the upper shaft bearings on the existing pumps and requires the use of ladders to access the universal joints which could be as high as 28 feet above the pump room floor.

Proposed solutions are discussed in the following section.

Improvements

The failing hydraulically actuated discharge check valve system will be replaced with WUD approved swing check valves with limit switches for open/close indication. Given that the station is not in full time use and will see only intermittent service, we sought economy in the valve selection from the approved list. The new valve will be 24-inch diameter to match the diameter of the existing valves. When comparing the traditional APCO swing check valves used at many of the stations with the Val-Matic Surge Buster check valves we found a vendor price difference of \$32,300 vs. \$25,080 each. The APCO model is a hearty valve which employs outside lever and weights and a spring cushion return for surge control. The Val-Matic model employs an internal spring return for the disk, designed to eliminate surge, and has no external shaft for lever, weights, and springs. The valve also has an external adjustment which allows operators to manually open the disc temporarily for back-flushing of upstream equipment and piping. Each valve has a proven track record and given the intermittent use of the station we believe the Val-Matic model to be a suitable economical choice.

Figure 1 shows the demolition plan for the pump room. The sequence of construction is presented in the attached schedule. The existing discharge valves, oil accumulator, hydraulic fluid piping, valve control panels, and conduit and conductors will be removed as required. The existing 36-inch spool piece and 24" x 36" reducer will be removed. The reducer will be reused and a new spool piece will be provided.

Figure 2 shows the new valve installation. The shorter laying length of the new valve will require a new, longer 36-inch spool piece and relocation of the existing reducer. The existing concrete reducer support will be modified for the new configuration. The 36-inch vertical discharge riser for Pump No.s 1 through 3 and the 48-inch suction piping will not be disturbed.

September 27, 2012

3 of 4

As mentioned, the new valves will be equipped with limit switches to provide Open/Closed status to replace the existing valve limit switches. The existing control logic for opening and closing the discharge control valves on pump startup and shutdown will be modified or abandoned as required to accommodate removal of the hydraulic valve system.

For providing access to service the upper shaft universal joints we propose supplying the County with a scissor lift platform suitable for the height and limited maneuvering space on the pump room level. The mobile platform would remain in the space as needed for maintenance and service. We will negotiate the sale of the rental unit needed for this project at project's end (directly between Globaltech and the vendor). If for any reason the WUD does not desire to purchase a used unit, purchase of a new unit will be negotiated at a price acceptable to staff. A cut sheet of the proposed unit is attached. The sale price of the unit would be in the range of \$8,500 to \$12,000 and could be accommodated by the remaining allowance. Globaltech has experience with this purchase method in the past for our own equipment inventory and we have had good success.

Schedule and Sequence of Construction

The construction schedule and sequence of construction is shown in the attachments. As mentioned, the sequence can be modified depending on the actual conditions at the station at the start of construction. Of particular importance will be maintaining the wetwell at depressed levels during construction to allow disassembly of the pump discharge piping and valve. Although the station is in bypass mode, seepage at the yard valves does cause the wetwell level to rise. A smaller 'jockey' pump is in service which can be used to pull down levels during disassembly. This activity will be coordinated with WUD operating staff prior to, and during, construction. Total project time is 19 weeks following notice to proceed. Permits will not be required since this project is for renewal and replacement.

Cost Estimate

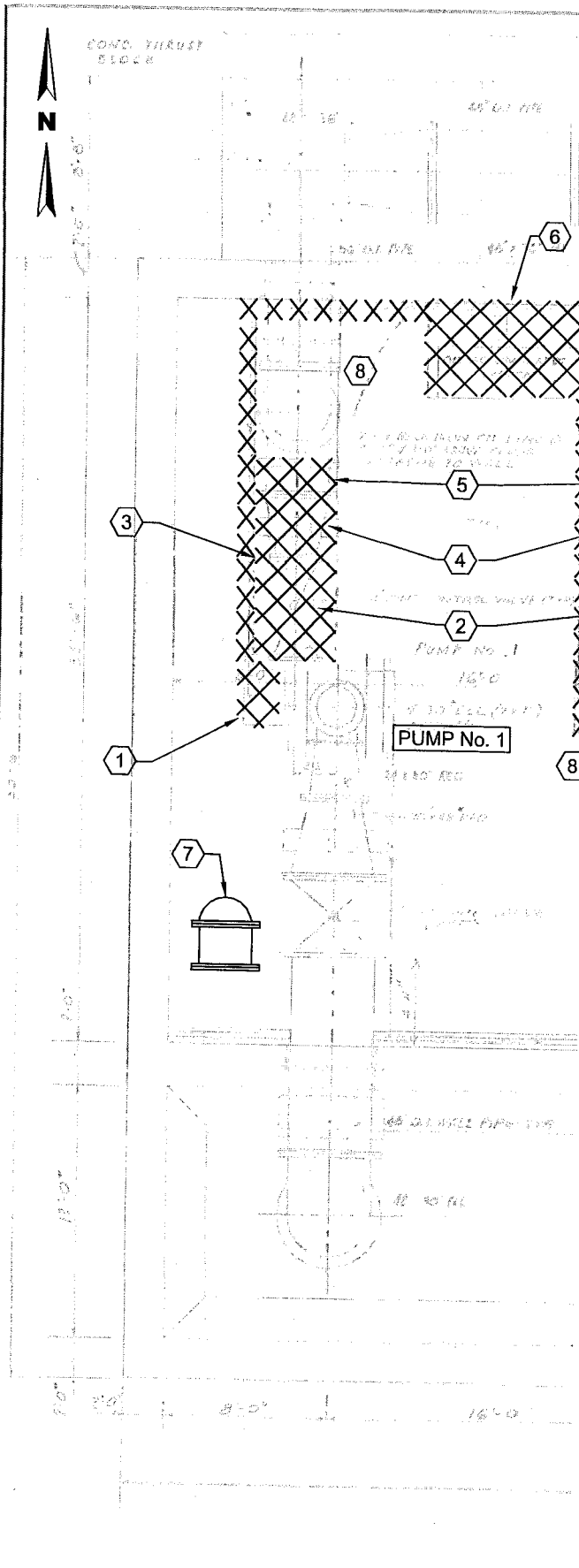
The cost breakdown for the proposed Work Authorization which includes construction, engineering services during construction, and transfer of a used lift at end of construction is shown in the attachments. The current estimated GMP is \$263,980.62.

Attachments

List of Figures

- Figure 1 - Pump Room Demolition Plan
Figure 2 - Pump Room Improvements Plant
- Attachment A - Schedule and Sequence of Construction
- Attachment B - Cost Breakdown
- Attachment C - Cut Sheets
- Val-Matic Check Valve
 - 36-inch Pipe Restrain Collar
 - Scissor Lift

COND. THRUOUT
51028



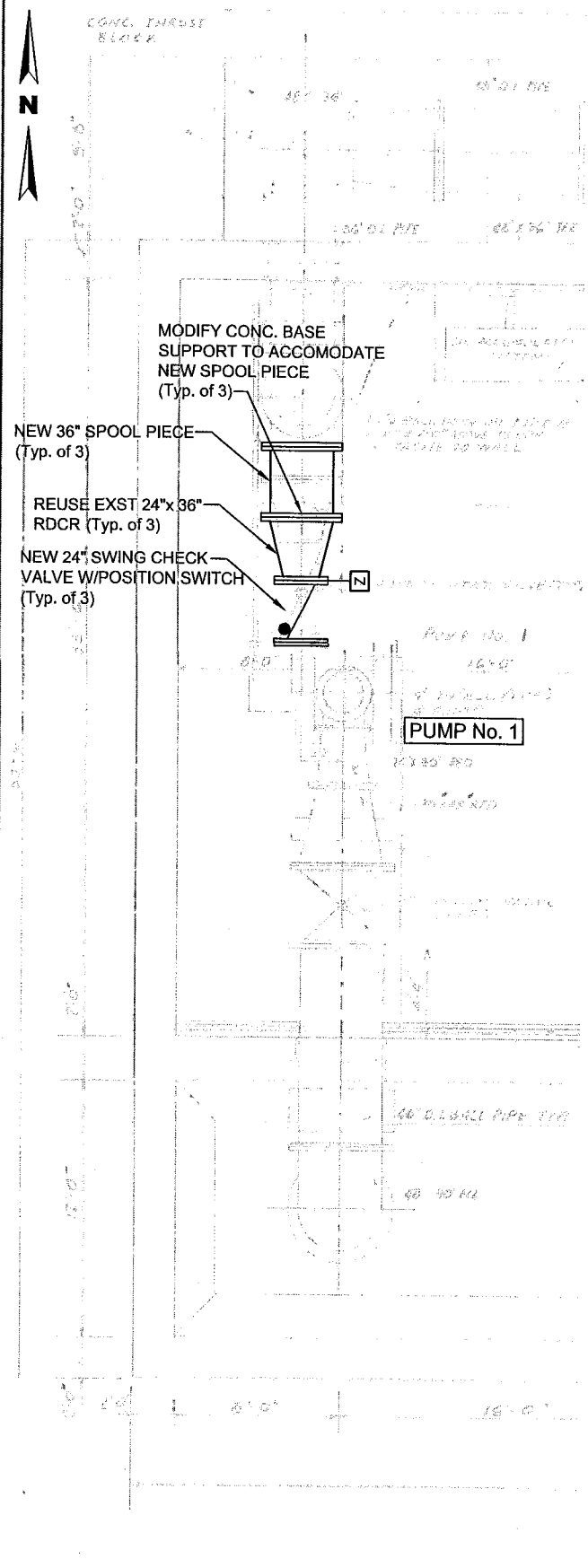
NOTES:

- 1. REMOVING VALVE CONTROL CABINET AND INTERNAL COMPONENTS. REMOVE AND CONDUCTORS BACK TO SOURCE
- 2. REMOVING PLUG VALVE, ACTUATOR AND LIMIT SWITCH. PORTIONS OF CONDUIT AND CONDUCTORS TO BE REUSED FOR NEW LIMIT SWITCH.
- 3. REMOVING HYDRAULIC FLUID PIPING, FITTINGS, SUPPORTS AND HARDWARE. WHERE CONDUCTORS ARE TO REMAIN IN SVC. DURING WORK, CAP/PLUG EXISTING PIPING WHERE NECESSARY. REUSE WHEN PIPING CAN BE COMPLETED.
- 4. REMOVING 24"x 36" RDCR AND STORE FOR REUSE WITH NEW CHECK VALVE AND SUPPORTS.
- 5. REMOVING SPOOL PIECE.
- 6. REMOVING OIL ACCUMULATOR SYSTEM AFTER LAST FUNCTIONING VALVE IS REMOVED. OWNER TO REMOVE AND DISPOSE OF HYDRAULIC FLUID PRIOR TO DEMOLITION.
- 7. REMOVE EXISTING CONDUITS & CONDUCTORS BACK TO SOURCE.
- 8. REMOVE GATE VALVE BONNET AND DISCS ON FLOOR AT PUMP No. 1.
- 9. REPAIR AND FINISH FLOOR SURFACES AT DEMOLITION LOCATION AND COAT TO MATCH ADJACENT FLOOR SURFACE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNATION 5241 IMPROVEMENTS
WUD 12-061
DEMOLITION PLAN

PROJECT NO. 120302
FILE NAME: FIG 1.DWG
SHEET NO.
FIGURE 1



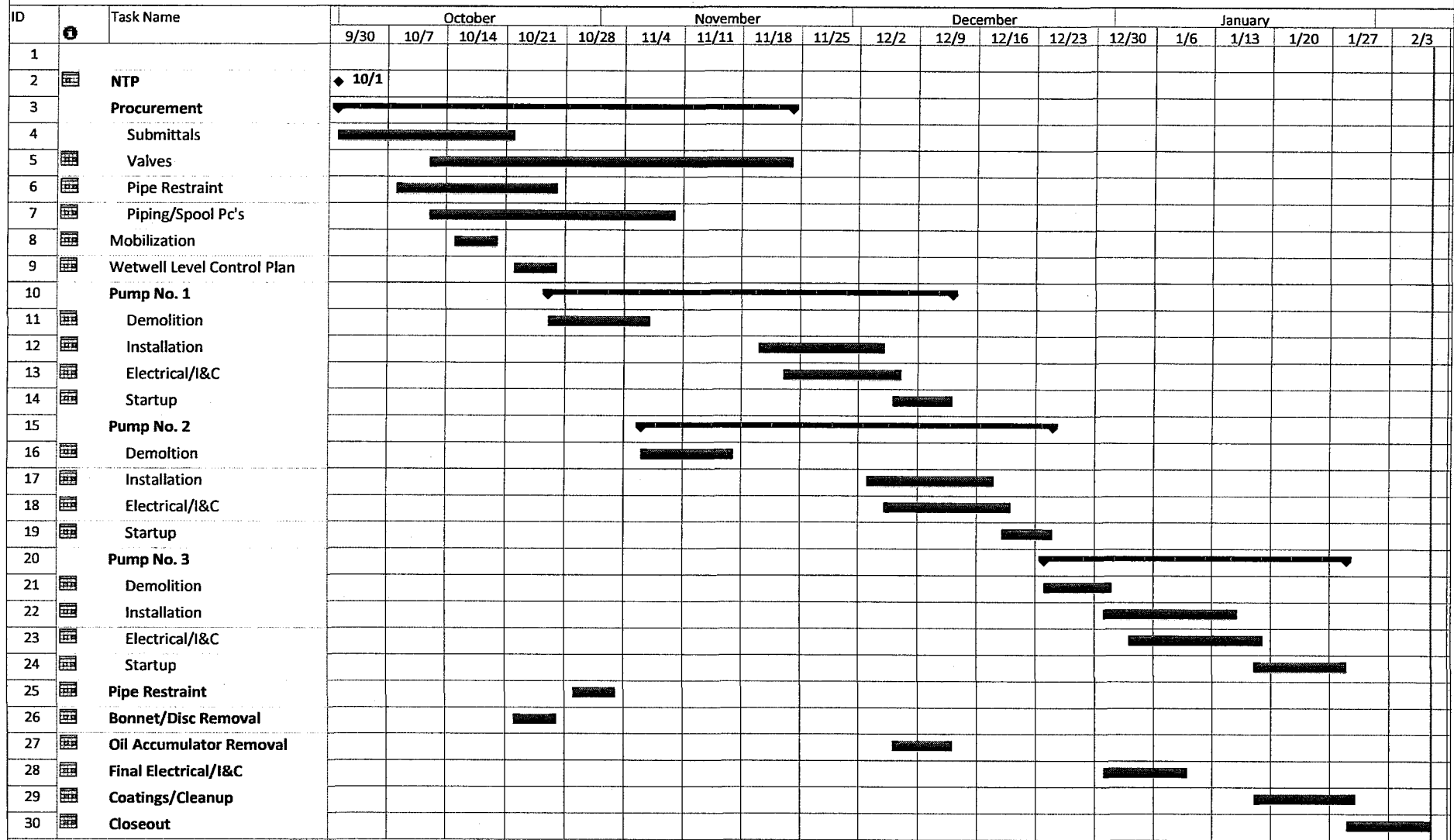
REV. NO.	DATE	DRWN	CHKD	REMARKS

ATION 5241 IMPROVEMENTS
 WUD 12-061
 M IMPROVEMENTS PLAN

PROJECT NO. 120302
 FILE NAME: FIG 2.DWG
 SHEET NO.
FIGURE 2

Attachment A
Schedule & Sequence of
Construction

PS 5241 Improvements



Project: PS 5241 Schedule and Se
Date: Thu 9/27/12

Task	▬	External Tasks	▬	Manual Task	▬	Finish-only	⌋
Split	⋯	External Milestone	◆	Duration-only	▬	Deadline	↓
Milestone	◆	Inactive Task	▬	Manual Summary Rollup	▬	Progress	▬
Summary	▬	Inactive Milestone	⊕	Manual Summary	▬		
Project Summary	▬	Inactive Summary	▬	Start-only	▬		⌋

Attachment B
Cost Breakdown



120336: PBC PS 5241 Impr. WA
: PBC Water Utilities Department

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	6% Sales Tax	Markup*	Ext. Price	
Bid Item: 1 General Requirements									
1	Temporary Facilities	LOT	1.00	190.0000					
L	Sanitary	Month	2.00	95.0000	190.00	11.40	1.1500	231.61	
2	General Conditions	LOT	1.00	15,540.2450					
L	Submittal Labor	HR	10.00	63.1400	631.40		1.2992	820.31	
L	Progress Meeting	HR	8.00	64.7100	517.68		1.2992	672.57	
L	Scheduling Labor	HR	10.00	63.1400	631.40		1.2992	820.31	
L	Construction PM	HR	135.00	63.1400	8,523.90		1.2992	11,074.25	
L	Punch Out Crew	CR-D	2.00	1,014.3000	2,028.60		1.2992	2,635.56	
L	Testing Services	LOT	1.00	250.0000	250.00		1.1500	287.50	
L	Safety Equipment	LOT	1.00	1,000.0000	1,000.00	60.00	1.1500	1,219.00	
L	Safety Manager	HR	16.00	63.1400	1,010.24		1.2992	1,312.50	
L	Purchasing & Subcontracts	HR	15.00	63.1350	947.03		1.2992	1,230.37	
					Bid Item Totals:	15,730.25	71.40		20,303.98
Bid Item: 2 Demo									
2051	Demolition Concrete Pipe Supports	LOT	1.00	4,741.3000					
L	Demo Pipe Supports	CR-D	3.00	1,247.1000	3,741.30		1.1865	4,439.05	
L	Rental Equipment General	LOT	1.00	1,000.0000	1,000.00	60.00	1.1550	1,224.30	
2051	Demo Hydraulic System	LOT	1.00	2,494.2000					
L	4 Man Crew	CR-D	2.00	1,247.1000	2,494.20		1.1865	2,959.37	
2051	Demolition Remove Pipe and Fittings	LOT	1.00	3,741.3000					

PBC ATTACHMENT

08/30/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	6% Sales Tax	Markup*	Ext. Price
L	4 Man Crew	CR-D	3.00	1,247.1000	3,741.30		1.1865	4,439.05
Bid Item: 3 Concrete					Bid Item Totals:	10,976.80	60.00	13,061.77
3300	Concrete Pipe Supports	LOT	1.00	8,135.5000				
L	Forms and Rebar	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
L	Form New Pipe Supports & Dowel Re	CR-D	3.00	1,247.1000	3,741.30		1.2992	4,860.70
L	Cast In Place Concrete	LOT	6.00	150.0000	900.00	54.00	1.1500	1,097.10
L	Place & Finish Concrete	CR-D	1.00	1,247.1000	1,247.10		1.2992	1,620.23
L	Concrete Pump	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
L	Strip forms & Rub	CR-D	1.00	1,247.1000	1,247.10		1.2992	1,620.23
Bid Item: 9 Coatings					Bid Item Totals:	8,135.50	114.00	10,417.26
9000	Finishes	LOT	1.00	7,735.5000				
L	Coatings	LOT	1.00	1,000.0000	1,000.00	60.00	1.1500	1,219.00
L	Coat Piping	CR-D	5.00	1,247.1000	6,235.50		1.2992	8,101.16
L	Scaffolding	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
Bid Item: 15 Mechanical					Bid Item Totals:	7,735.50	90.00	9,929.66
15050	Flanged Piping & Valves	LOT	1.00	116,765.5300				
L	Piping General	LOT	3.00	25,546.6700	76,640.01	4,598.40	1.1500	93,424.17
L	Piping General	LOT	1.00	21,419.0200	21,419.02	1,285.14	1.1500	26,109.78
L	Install Pipe, Fittings & Valves	CR-D	15.00	1,247.1000	18,706.50		1.2992	24,303.48
15050	Restrain Existing Line	LOT	1.00	5,447.1000				
L	Piping General	LOT	1.00	4,200.0000	4,200.00	252.00	1.1500	5,119.80
L	Restrain Existing Line	CR-D	1.00	1,247.1000	1,247.10		1.2992	1,620.23

PBC ATTACHMENT

08/30/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	6% Sales Tax	Markup*	Ext. Price
				Bid Item Totals:	122,212.63	6,135.54		150,577.46
Bid Item:	16 Electrical							
	Electrical Sub	LOT	1.00	8,000.0000	8,000.00		1.1000	8,800.00
				Bid Item Totals:	8,000.00			8,800.00
Bid Item:	18 Rental Equipment							
18001	Tools & Consumables	LOT	1.00	750.0000				
	L Misc Tools	LOT	1.00	250.0000	250.00	15.00	1.1500	304.75
	L Misc Materials & Dunnage	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
18002	Rental Equipment	LOT	1.00	12,200.0000				
	L Carry deck Crane	LOT	1.00	8,000.0000	8,000.00	480.00	1.1500	9,752.00
	L Fuel	GAL	500.00	4.0000	2,000.00		1.0000	2,000.00
	L 8 Ton Rigger	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
	L Warehouse forklift	LOT	1.00	1,200.0000	1,200.00	72.00	1.1500	1,462.80
	L Fuel	LOT	1.00	500.0000	500.00	30.00	1.1500	609.50
				Bid Item Totals:	12,950.00	657.00		15,348.05
Bid Item:	25 Allowance							
	Allowance	LOT	1.00	25,000.0000	25,000.00		1.0000	25,000.00
				Bid Item Totals:	25,000.00			25,000.00
Bid Item:	50 Engineering							
	Engineering	LOT	1.00	6,000.0000	6,000.00		1.0000	6,000.00
				Bid Item Totals:	6,000.00			6,000.00
Bid Item:	60 Bonds							
	Bonds & Certifications	LOT	1.00	3,949.9500	3,949.95		1.1500	4,542.44
				Bid Item Totals:	3,949.95			4,542.44

PBC ATTACHMENT

08/30/12

Continued...

Assembly#	Description	Unit	Quantity	Cost	Ext. Cost	6% Sales Tax	Markup*	Ext. Price
Grand Totals:					220,690.63	7,127.94		263,980.62

Note: All materials include an additional 6.0% markup for FL State sales tax. Markup is applied after tax is added to the Ext. Cost.

** Materials = 15%, Subcontractors = 10%, Labor at Burden = 29.92% (12% G&A x 16% Profit & Overhead), Engineering = See next page for Engineering Summary*

Attachment C

Cut Sheets

Val-Matic Check Valve

SURGEBUSTER® SWING CHECK VALVE
SERIES NO. 7200BFMI & 7200ABFMI ANSI CLASS 125

STANDARD MATERIALS OF CONSTRUCTION

<u>PART NO.</u>	<u>PART NAME</u>	<u>MATERIAL</u>
1	BODY BODY	DUCTILE IRON ASTM A536, GRADE 65-45-12 (250 CWP) CAST IRON ASTM A126, CLASS B (150 CWP)
2	COVER COVER	DUCTILE IRON ASTM A536, GRADE 65-45-12 (250 CWP) CAST IRON ASTM A126, CLASS B (150 CWP)
3	DISC	BUNA-N W/ ALLOY STEEL & NYLON REINFORCEMENT
4	COVER SEAL (4"-12") COVER SEAL (2"-3", 14"-42")	BUNA-N COMPRESSED NON-ASBESTOS FIBER
5A	COVER BOLT	ALLOY STEEL SAE GRADE 5, PLATED
5B	COVER BOLT NUT (4"-12")	ALLOY STEEL, PLATED
5C	WASHER	ALLOY STEEL, PLATED
6	BACKFLOW ACTUATOR (OPTIONAL)	BRASS
13	DISC ACCELERATOR	STAINLESS STEEL, TYPE 302
14	MECHANICAL INDICATOR (OPTIONAL, SIZES 3"-42")	STAINLESS STEEL, TYPE 316

NOTE: ALL SPECIFICATIONS AS
LAST REVISED.

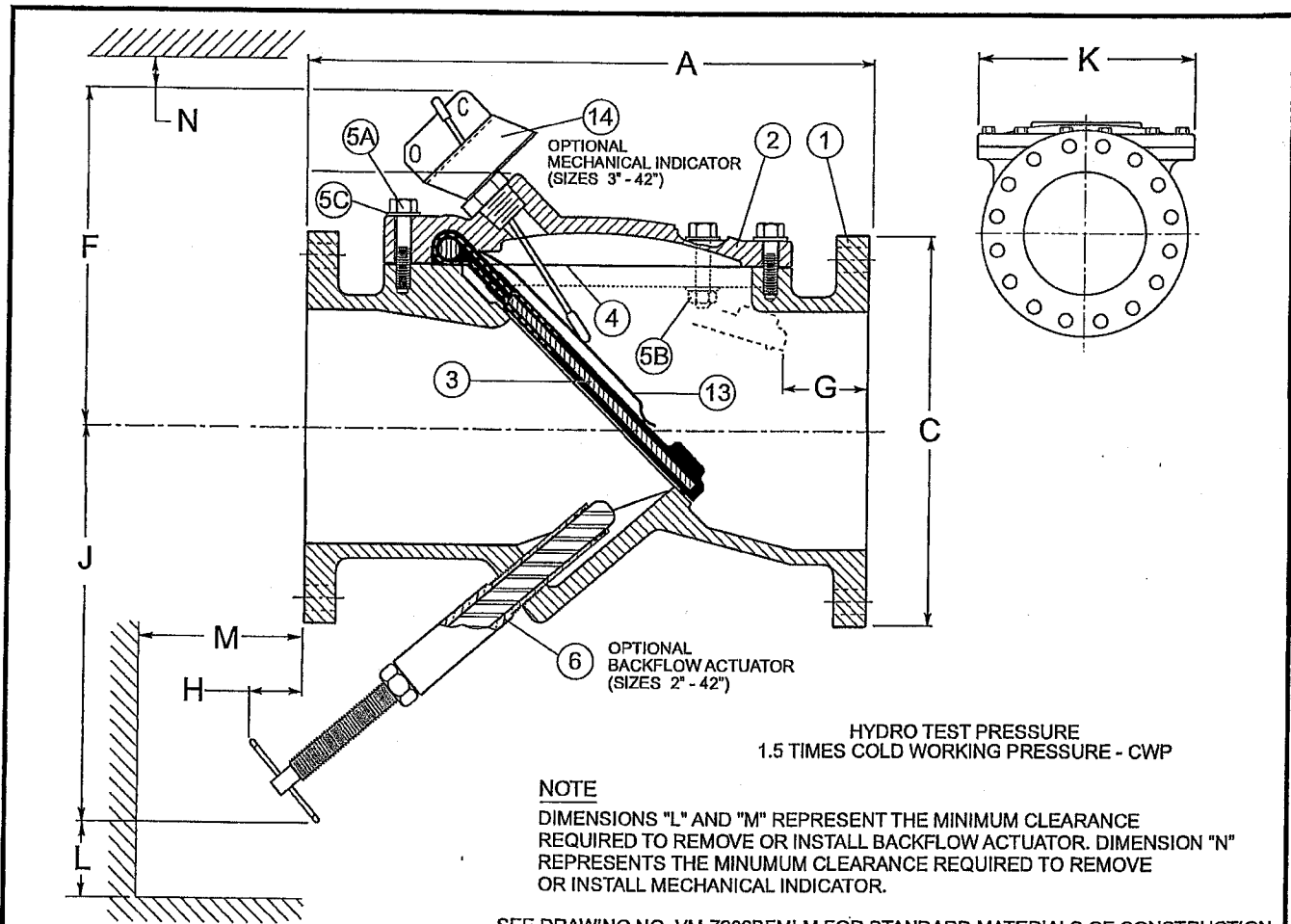
MATERIALS OF CONSTRUCTION

DATE 11/17/08

VAL-MATIC® VALVE AND MANUFACTURING CORP.

DRWG. NO.

VM-7202BFMI-M



ANSI CLASS 125

VALVE SIZE	MODEL NO.	CWP (PSI)	A	C	F	G	*H	J	K	L	M	N	BOLT SIZE	NO. OF BOLTS	SHPG. WT.
2	7202BF	250	8.00	6.00	N/A	1.63	-0.50	6.75	5.18	1.50	1.50	N/A	5/8	4	27
2 1/2	7225BF	250	8.50	7.00	N/A	1.63	-0.50	7.00	5.18	1.50	1.50	N/A	5/8	4	32
3	7203BFMI	250	9.50	7.50	7.63	1.63	-0.38	7.50	7.50	1.50	1.50	2.00	5/8	4	45
4	7204BFMI	250	11.50	9.00	8.25	2.12	4.13	11.63	8.25	2.25	2.25	2.00	5/8	8	70
6	7206BFMI	250	15.00	11.00	9.38	2.12	2.00	12.00	11.12	2.25	2.25	2.00	3/4	8	130
8	7208BFMI	250	19.50	13.50	11.00	2.88	2.00	15.75	16.00	5.75	5.75	3.25	3/4	8	250
10	7210BFMI	250	24.50	16.00	13.38	3.12	0.50	17.00	21.00	5.75	5.75	3.25	7/8	12	430
12	7212BFMI	250	27.50	19.00	15.00	3.43	3.50	22.50	24.00	6.50	6.50	4.50	7/8	12	660
14	7214BFMI	250	31.00	21.00	17.63	3.63	4.00	26.25	23.25	6.50	6.50	4.50	1	12	750
16	7216BFMI	250	32.00	23.50	18.88	3.25	4.63	30.00	25.25	6.50	6.50	4.50	1	16	900
18	7218BFMI	250	36.00	25.00	20.00	3.12	5.25	33.75	28.25	6.50	6.50	4.50	1 1/8	16	1230
20	7220BFMI	250	40.00	27.50	21.38	3.50	5.88	37.50	30.63	8.00	8.00	7.75	1 1/8	20	1750
24	7224BFMI	250	48.00	32.00	23.88	5.00	7.00	45.00	36.00	8.00	8.00	7.75	1 1/4	20	2400
30	7230BFMI	150	56.00	38.75	27.63	5.75	-0.63	41.25	45.88	8.00	8.00	8.00	1 1/4	28	5110
30	7230ABFMI	250	56.00	38.75	27.63	5.75	-0.63	41.25	45.88	8.00	8.00	8.00	1 1/4	28	5110
36	7236BFMI	150	63.00	46.00	31.00	3.88	-6.12	43.50	55.00	8.00	8.00	8.00	1 1/2	32	6700
36	7236ABFMI	250	63.00	46.00	31.00	3.88	-6.12	43.50	55.00	8.00	8.00	8.00	1 1/2	32	6700
42	7242BFMI	150	70.00	53.00	39.12	0.12	-11.00	48.12	60.18	8.00	8.00	8.00	1 1/2	36	9110
42	7242ABFMI	250	70.00	53.00	39.12	0.12	-11.00	48.12	60.18	8.00	8.00	8.00	1 1/2	36	9110

* DIMENSION "H" DOES NOT EXTEND PAST FLANGE ON VALVE SIZES 2" THRU 3", 30" THRU 42"
2" & 2 1/2" DO NOT HAVE A MECHANICAL INDICATOR BOSS.

Revised 4-24-09

SURGEBUSTER® SWING CHECK VALVE

DATE 11-17-08

VALMATIC® VALVE AND MANUFACTURING CORP.

DRWG. NO.
VM-7202BFMI

SurgeBuster® Check Valve

Operation, Maintenance and Installation Manual

INTRODUCTION	1
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LIMIT SWITCH (OPTIONAL)	5
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VAL-MATIC VALVE AND MANUFACTURING CORP.

905 RIVERSIDE DRIVE ■ ELMHURST, IL 60126
PHONE (630)941-7600 ■ FAX (630)941-8042

VAL-MATIC'S SURGEBUSTER® CHECK VALVE OPERATION, MAINTENANCE AND INSTALLATION

INTRODUCTION

The Surgebuster® Check Valve has been designed to give years of trouble-free operation. This manual will provide you with the information needed to properly install and maintain the valve and to ensure a long service life. The valve is opened by the fluid flow in one direction and closes automatically to prevent flow in the reverse direction.

An optional backflow actuator may be mounted on the bottom of the valve to allow manual backflow through the valve in the reverse direction.

Optional Mechanical Indicators and Limit Switches may be mounted on the valve cover to provide local and remote position indication.

The valve is of the swing check type utilizing an angled seat and fully encapsulated, resilient disc. It is capable of handling a wide range of fluids including flows containing suspended solids. The Size, Flow Direction, Maximum Working Pressure, and Series No. are stamped on the nameplate for reference.

CAUTION:

Do not use valve for line testing at pressures higher than nameplate rating or damage to valve may occur.

The "Maximum Working Pressure" is the non-shock pressure rating of the valve at 150°F. The valve is not intended as an isolation valve for line testing above the valve rating.

RECEIVING AND STORAGE

Inspect valves upon receipt for damage in shipment. Unload all valves carefully to the ground without dropping. Do not allow lifting slings or chains to come in contact with the seat area; use eyebolts or rods through the flange holes on large valves.

WARNING

Do not use threaded holes in cover for lifting the valve. Serious injury may result.

Valves should remain crated, clean and dry until installed to prevent weather related damage. For long term storage greater than six months, the rubber surfaces of the disc should be coated with a thin film of FDA approved grease such as Lubriko #CW-606. Do not expose disc to sunlight or ozone for any extended period.

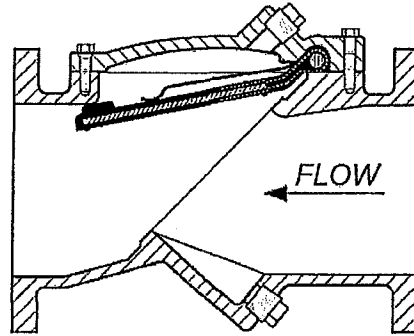


FIGURE 1. SURGEBUSTER® CHECK VALVE

DESCRIPTION OF VALVE OPERATION

The valve is designed to prevent reverse flow automatically. During system flow conditions, the movement of the fluid forces the disc to the open position allowing 100% un-restricted flow area through the valve. Under reverse flow conditions, the disc rapidly returns to the closed position to prevent reverse flow.

Several optional features are a backflow actuator, mechanical indicator, and limit switch. All of these options ship loose of the valve and require field installation.

INSTALLATION

Correct installation of the Surgebuster® is important for proper operation. It may be installed in either horizontal or vertical flow-up applications. However, when horizontal, the valve must be installed with the nameplate facing up and the cover level. In all installations, the flow arrow cast in the valve cover must be pointed in the direction of flow during normal system operation.

WARNING

Do not use threaded holes in cover for lifting the valve. Serious injury may result.

FLANGED ENDS: Flanged valves can be mated with raised or flat-faced pipe flanges equipped with full-face or ring-type resilient gaskets. The valve and adjacent piping must be supported and aligned to prevent cantilevered stress on the valve. Once the flange bolts or studs are lubricated and inserted around the flange, tighten them uniformly hand tight. The tightening of the bolts should then be done in graduated steps using the **crossover tightening** method. Recommended lubricated torque values for use with resilient gaskets (75 durometer) are given in Table 1. If leakage occurs, allow gaskets to absorb fluid and check torque and leakage after 24 hours. Do not exceed bolt rating or extrude gasket.

CAUTION:

The use of ring gaskets or excessive bolt torque may damage valve flanges.

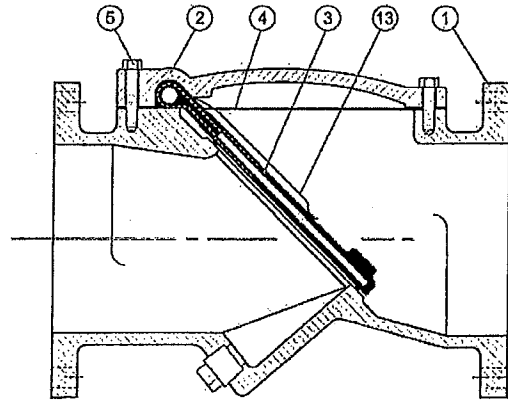
FLANGE BOLTS

VALVE SIZE (in)	BOLT DIA (in)	RECOM. TORQUE (ft-lbs)	MAX. TORQUE (ft-lbs)
3	5/8	25	90
4	5/8	25	90
6	3/4	30	150
8	3/4	40	150
10	7/8	45	205
12	7/8	65	205
14	1	80	300
16	1	80	300
18	1 1/8	100	425
20	1 1/8	100	425
24	1 1/4	150	600
30	1 1/4	160	600
36	1 1/2	300	900
42	1 1/2	300	900

TABLE 1. FLANGE BOLT TORQUES

VALVE CONSTRUCTION

The standard Surgebuster® Check Valve is constructed of rugged cast iron with a rubber encapsulated disc. See the specific Materials List submitted for the order if other than standard cast iron construction. The disc is the only moving part assuring long life with minimal maintenance. The general details of construction are illustrated in Figure 2. The body (1) is flanged for connection to the pipeline with an open top sealed with a cast cover (2). The disc (3) and disc accelerator (13) are retained by the cover.



ITEM	DESCRIPTION	MATERIAL
1	Body	Ductile Iron – 250 psi Cast Iron – 150 psi
2	Cover	Ductile Iron – 250 psi Cast Iron – 150 psi
3	Disc*	Steel With Buna-N Facing
4	Cover seal*	Buna-N or Non-Asbestos
5	Cover Bolt	Alloy Steel
13	Accelerator	Stainless Steel

*RECOMMENDED SPARE PART

FIGURE 2. CHECK VALVE CONSTRUCTION

MAINTENANCE

The SurgeBuster® Check Valve requires no scheduled lubrication or maintenance. For service or inspection, the valve can be serviced without removal from the line.

VALVE INSPECTION: If inspection of the valve is required, follow the Disassembly Instructions given on page 3.

TROUBLESHOOTING

Several problems and solutions are presented below to assist you in troubleshooting the valve assembly in an efficient manner.

- **Leakage at Bottom Actuator:** Remove line pressure and exercise actuator. If leak persists, replace seals in actuator; see the Backflow Actuator Seal Replacement Procedure on page 4.
- **Leakage at Cover or Flanges:** Tighten bolts, replace cover seal.
- **Valve Leaks when Closed:** Inspect disc for damage and replace. Inspect metal seating surface and clean if necessary.
- **Valve Does not Open:** Check for obstruction in valve or pipeline; see Disassembly procedure on page 4. Operating pressure may be less than cracking pressure. If less than 0.5 psig, review application with factory.
- **Valve Slams Closed:** Add additional accelerator.

DISASSEMBLY

The valve can be disassembled without removing it from the pipeline. Or for convenience, the valve can be removed from the line. All work on the valve should be performed by a skilled mechanic with proper tools and a power hoist for larger valves. Disassembly may be required to inspect the disc for wear or the valve for deposits.

WARNING:

The line must be drained before removing the cover or pressure may be released causing bodily harm.

1. Relieve pressure and drain the pipeline. Refer to Figure 2 on page 2. Remove the cover bolts (5) on the top cover.
2. Pry cover (2) loose and lift off valve body. 14" and larger valves have tapped holes in cover for lifting eyes.
3. Remove disc (3) and inspect for cracks, tears or damage in rubber sealing surface.
4. Clean and inspect parts. Replace worn parts as necessary and lubricate parts with FDA grease such as Lubriko #CW-606.

RE-ASSEMBLY

All parts must be cleaned. Gasket surfaces should be cleaned with a stiff wire brush in the direction of the serrations or machine marks. Worn parts, gaskets and seals should be replaced during reassembly.

1. Lay disc (3) over seat with beaded seating surface directed down.
2. Lay disc accelerator (13) over center of disc hinge. If two accelerators are provided, stack them over the center of the disc hinge.
3. Lay cover gasket (4) and cover (2) over bolt holes and disc hinge.
4. Insert lubricated bolts (5) noting that the bolts in the hinge area are longer than the other cover bolts.
5. Cover bolts should be tightened to the following specifications during assembly.

VALVE	COVER BOLTS	
	SIZE	TORQUE (FT-LBS)
2"-2.5"	1/2"	75
3"	7/16"	50
4"	1/2"	75
6"	7/16"	50
8"	9/16"	110
10"	3/4"	250
12"-20"	7/8"	400
24"	1"	500
30"	1 1/8"	600
36"	1 1/4"	900
42"	1 1/2"	1,400

TABLE 2. VALVE COVER BOLT TORQUES

BACKFLOW ACTUATOR FIELD INSTALLATION AND MAINTENANCE (OPTIONAL)

BACKFLOW ACTUATOR OPERATION:

An optional **backflow actuator** assembly is available which can be easily installed in the field. The actuator is not designed to operate at the valve's Maximum Working Pressure rating. Therefore, prior to using the actuator, close the pump isolation valve and bleed off line pressure. To operate, turn the handle clockwise. This will open the valve disc allowing backflow through the valve. The handle should turn easily. When resistance is felt, the disc has reached its body stop and is in the full open position. Upon completion of the back flushing operation, turn the handle counter-clockwise and the valve will automatically return to the closed position. Lock the actuator in the closed position with the jam nut provided. The system is again ready for normal operation

WARNING:
Relieve line pressure before using backflow actuator or damage may occur.

BACKFLOW ACTUATOR FIELD INSTALLATION:

The backflow actuator is supplied as an optional assembly from the factory, which is shipped loose with the valve.

WARNING:
Removal of the bottom plug while under pressure may cause bodily harm.

1. Depressurize and drain the pipeline.
2. Remove the pipe plug in the bottom boss of the valve.
3. Inspect the backflow rod and place in the non-extended position. (The rod should extend about 1" past the end of the brass bushing.) Apply Teflon thread sealant to brass threads.
4. Insert the threaded end of the assembly into the valve boss. Slowly turn the assembly into the boss taking care not to cross-thread the bushing. Continue turning the assembly into the valve for a tight fit.

BACKFLOW ACTUATOR SEAL REPLACEMENT:

There are two parts (8 & 9) on the backflow actuator that are subject to wear. To replace the seals, the pipeline must first be depressurized and drained. Next, remove the backflow assembly from the valve by turning the brass bushing (6) counter-clockwise. Disassemble the actuator as follows:

1. Remove one of the vinyl caps (12).
2. Remove the T-Handle (10) and jam nut (11) from the rod (7).
3. Remove the rod (7) from the bushing (6) by screwing in the rod fully clockwise and pull the rod through the valve end of the bushing (6).
4. Lubricate new seals with FDA approved grease such as Lubriko #CW-606 and install in the bushing end grooves.
5. Clean, lubricate, and reinstall rod in bushing.
6. Re-install jam nut (11) and T-Handle (10).
7. Place vinyl cap (12) on handle (10).
8. Apply Teflon thread sealant to bushing and carefully thread into valve taking care not to cross-thread the bushing

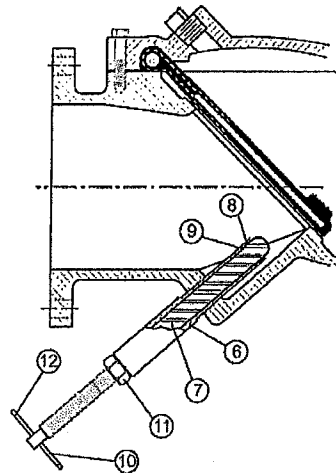


FIG. 3. BACKFLOW ACTUATOR ASSEMBLY

ITEM	DESCRIPTION	MATERIAL
6	Bushing	Brass
7	Rod	Stainless Steel
8	Rod Wiper*	Molythane
9	O-Ring*	Buna-N
10	Handle	Stainless Steel
11	Jam nut	Brass
12	Cap*	Vinyl

*RECOMMENDED SPARE PART

BACKFLOW ACTUATOR PARTS LIST

MECHANICAL INDICATOR (OPTIONAL)

The mechanical indicator is an option that fits into the cover and can easily be installed in the field by going through the following steps. The mechanical indicator is used to visually indicate when the valve is opened or closed.

1. Remove line pressure and drain valve.

WARNING:
Removal of the pipe plug while under pressure may cause bodily harm.

2. Remove the pipe plug from the cover.
3. Apply pipe joint compound to indicator body (21) threads.
4. Insert the indicator body (21), without the indicator plate (27), into the valve cover and tighten. Make sure that two of the tapped holes in the indicator body (21) are aligned with the valve and pipeline. This will ensure proper orientation of the indicator plate.
5. Remove the two socket head screws (31) from the indicator body (21).
6. Slide the indicator plate (27) over the indicator rod (23) and spring (28).
7. Align the indicator plate (27) as shown on the back of this card and secure with the 5mm socket head screws (31).
8. Connect the spring (28) to the indicator plate (27) notch

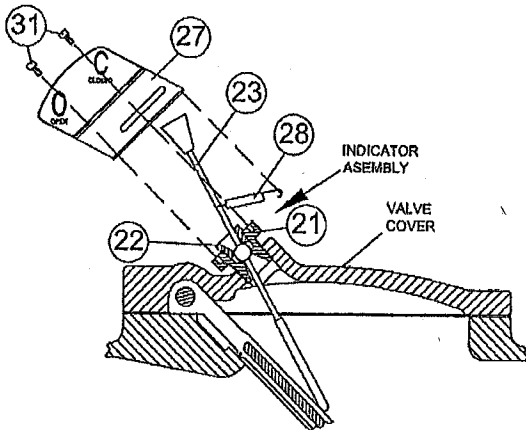


FIG. 4. MECHANICAL INDICATOR ASSEMBLY

Mechanical Indicator Parts List		
Item	Description	Material
21	Body	Brass
22	Bushing	Brass
23	Rod	Stainless Steel T316
27	Plate	Stainless Steel T316
28	Spring	Stainless Steel T302
32	Screws	Stainless Steel T316

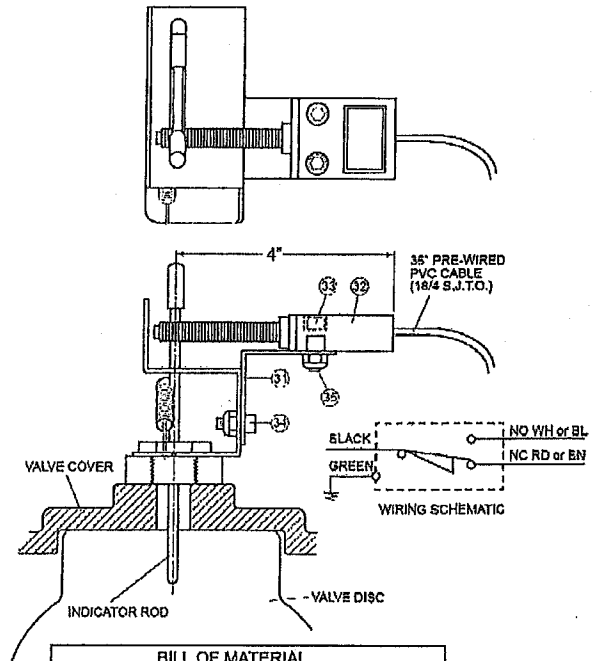
LIMIT SWITCH (OPTIONAL)

The limit switch is used in conjunction with the Mechanical Indicator. The standard limit switch is MICROSWITCH Model Number 914CE20-3. The limit switch is SCADA (Supervisory Control and Data Acquisition) compatible for applications requiring open/close indication.

NEMA Ratings: 1, 2, 4, 6, 6P, 12, 13
UL Ratings: 5 AMPS, 1/10 HP, 125 or 250 VAC, SPDT

Installation:

1. Attach limit switch assembly to indicator using the supplied screws (34) and bracket (31).
2. Position the assembly so that the switch trips when the valve is closed.
3. Connect wiring to either the normally open or normally closed contact as shown in the schematic diagram.



BILL OF MATERIAL		
PART NO.	DESCRIPTION	QTY.
31	MOUNTING BRACKET LIMIT SWITCH (SPDT)	1
32	HONEYWELL 914CE20-3 ALLEN BRADLEY 802B-CSACXSXCE	1
33	SCREW	2
34	SCREW	2
35	NUT	4

FIGURE 5. LIMIT SWITCH ASSEMBLY

PARTS AND SERVICE

Parts and service are available from your local representative or the factory. Make note of the valve Model No and Working Pressure located on the valve nameplate and contact:

Val-Matic Valve and Mfg. Corp.
905 Riverside Drive
Elmhurst, IL 60126
PH: 630/941-7600
FAX: 630/941-8042

A sales representative will quote prices for parts or arrange for service as needed.

WARRANTY INFORMATION

VAL-MATIC SURGEBUSTER LIMITED WARRANTY

Val-Matic Valve and Manufacturing Corporation warrants the Surgebuster to outperform any manufacturer's normally equipped Air Cushion, Weight and Lever Swing Check Valve with respect to surge pressure normally generated by check valve closure for installations within the manufacturer's published ratings of the valve with regard to pressure, temperature and installation orientation. Should the Val-Matic Surgebuster fail to outperform any Air Cushion, Weight and Lever Swing Check Valve during a period of twelve (12) months from the date of installation or eighteen (18) months from the date of shipment, whichever comes first, Val-Matic shall pay for the cost of replacement of the Surgebuster with a comparably rated Air Cushion, Weight and Lever Swing Check valve. This warranty is subject to the following restrictions:

1. This warranty shall not apply when valve performance is or has been affected by misuse, abuse or negligence in either installation, operation or maintenance.
2. This warranty shall not apply to the cost of maintenance, adjustment, or installation of the Surgebuster.
3. The Surgebuster shall not be operated outside the specifications as published by Val-Matic.
4. Notices of claims against this warranty must be sent via certified mail to Val-Matic within 15 days of the first instance of an event giving rise to a possible claim against this warranty. Val-Matic shall have the right to test and adjust the Surgebuster and any replacement valve in the customer's application with the system operating thru full on/off cycles as needed.
5. If the customer replaces a Surgebuster valve pursuant to this warranty, the installation and application of the new valve must be identical to that of the valve being replaced in all respects, including, but not limited to, location and placement of the Surgebuster valve. Val-Matic shall in no event be liable for costs or expenses in excess of the cost of the replacement valve.
6. This warranty is limited to pressure surges generated by check valve closure under reverse flow conditions. It does not apply to pressure surges generated by other system dynamics.
7. If, after the customer replaces the Surgebuster with a normally equipped Air Cushion, Weight and Lever Swing Check Valve and Val-Matic tests such replacement valve in the customer's application, such tests shows the Surgebuster valve producing less surge pressure than the replacement valve, then the customer shall be responsible for the expenses incurred by Val-Matic. If the tests show the Surgebuster valve, after adjustment produced more surge pressure than the replacement valve, then Val-Matic shall reimburse customer for the documented cost of replacement of the Surgebuster valve.
8. Val-Matic's sole liability and the customer's sole remedy under this warranty and for any and all other claims arising out of the purchase and use of the Surgebuster valve, shall be limited to replacement of the valve. In no event will Val-Matic be liable for consequential damages even if Val-Matic has been advised of the possibility of such damages. This warranty is expressly in lieu of any other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and any other obligation on the part of Val-Matic.
9. If Val-Matic shall, at the request of the customer, render assistance of any kind in operating the valve, or any part of it, or in remedying any defects at the time, the assistance shall in no case be deemed an acknowledgment on Val-Matic's part of a breach by it of this warranty, or excuse for any failure of the customer to fully keep and perform the conditions of this warranty.
10. This warranty shall be construed according to the laws of the State of Illinois. Any actions brought to enforce this warranty must be brought in the state or federal courts located in Cook County, Illinois. The prevailing party in any litigation concerning this warranty shall be entitled to recover its reasonable attorneys fees and costs from the non-prevailing party.

LIMITED WARRANTY

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below.

If the purchaser believes a product is defective, the purchaser shall: (a) Notify the manufacturer, state the alleged defect and request permission to return the product; (b) if permission is given, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at his discretion, either repair or replace the product, f.o.b. factory, within 60 days of receipt, or refund the purchase price. Other than to repair, replace or refund as described above, purchaser agrees that manufacturer shall not be liable for any loss, costs, expenses or damages of any kind arising out of the product, its use, installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of any of the foregoing. NO OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE MADE OR AUTHORIZED. NO AFFIRMATION OF FACT, PROMISE, DESCRIPTION OF PRODUCT OF USE OR SAMPLE OR MODEL SHALL CREATE ANY WARRANTY FROM MANUFACTURER, UNLESS SIGNED BY THE PRESIDENT OF THE MANUFACTURER. These products are not manufactured, sold or intended for personal, family or household purposes.

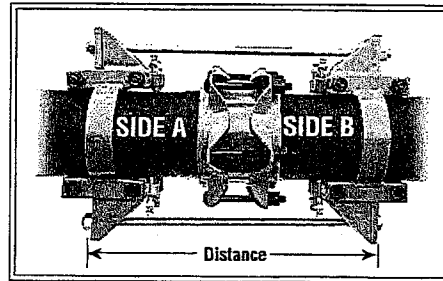
**36-inch
Pipe
Restrain Collar**

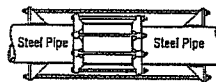
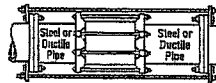
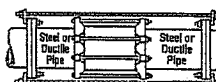

STAR National Products Restraining System Specifications and Ordering Information

The STAR National Products joint restraining system can be used to its best advantage when the installer has a full understanding of the manufacturer's recommended procedures and installation techniques.

STAR National Products anchored joint restraints can be supplied as shown below, or mixed and matched in any combination to suit your piping system needs. Material specifications and product requirements are listed below.

NOTE: Always follow the proper installation instructions and warnings when using any STAR National Products or Dresser® joint restraining products.



Specification Information Required	Restraint Configurations
<p>The following general specs are required for all joint restraint product inquiries:</p> <ol style="list-style-type: none"> 1. Specify STAR National Products restraint style required for both Side A & Side B. 2. Specify pipe type being used (steel, ductile or cast iron) for Side A & Side B. 3. Specify working pressure and maximum test pressure of your particular piping system. 4. Specify pipe diameter and thrust load requirements. 5. Specify rod length required: Available in 40", 50", and 60" as well as custom lengths per application. 6. Specify rod material: (carbon steel, galvanized, zinc plated or stainless steel). Rod diameters are available in sizes 3/4", 1", 1-1/4" and 1-1/2". Pipe diameter and line pressure specs will determine the number and size of rods required per joint. 7. Specify flange type (size & pressure class) and plate material required (carbon steel or stainless steel). 	<p>Style 440 </p> <p>Style 441 </p> <p>Style 442 </p> <p>Style 443 </p>
<p>NOTE: Consult Dresser Engineering Department for further information.</p>	

STAR National Products, Inc. was established in 1984 and is headquartered in Columbus, Ohio. STAR National Products anchor restraint system components meet ANSI B18.6.2, ANSI B1.1 and ASTM A588, Grade B; A325, Type 3 standards for flanged and mechanical joint systems.

Note: TieBolt® and TieAnchor® are registered trademarks, and TiePlate™ is a trademark of STAR National Products, Inc., Columbus, OH. Dresser® is a registered trademark of Dresser, Inc., Dallas, TX.

Piping Specialties
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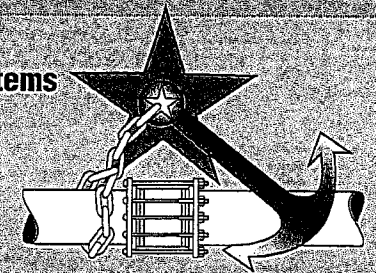
Form No. STAR 6-04
Rev. 3-08/RT.5M



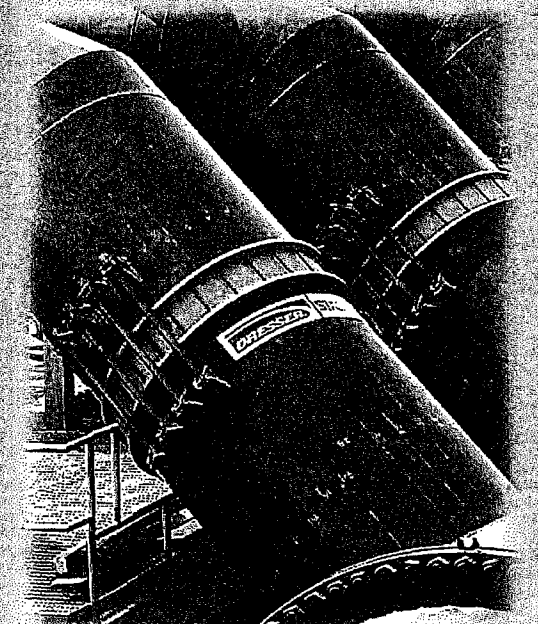
Piping Specialties

STAR National Products Tie-Anchors® Joint Restraint System

Steel Restraining Products
for Water & Industrial Piping Systems



The Time-Proven
Method for Restraining
Piping Systems



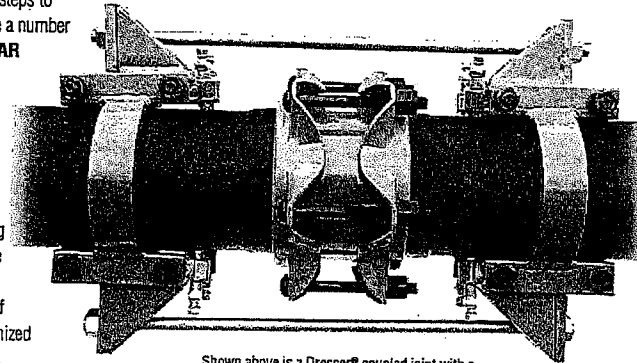
STAR National Products

Anchor Restraining System Product Overview

The modern, safe, economical answer to prevent pipe joint separation...

During the installation of above ground and below ground piping systems, it is often necessary to take steps to restrain the pipe from joint separation. While a number of different methods have been used, the **STAR National Products** anchor restraining techniques have been proven to be both reliable and economical, eliminating the many disadvantages inherent in other pipe joint restraining methods.

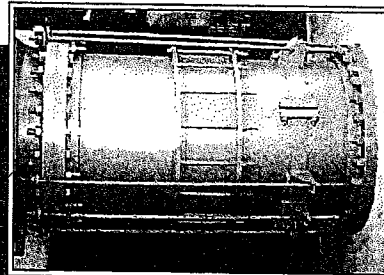
Today's joint restraint problems are becoming more complex. Whether steel, cast or ductile iron, the **STAR National Products** joint anchor restraint system offers a wide range of flexibility and adaptability, and can be customized to meet most field construction requirements.



Shown above is a Dresser® coupled joint with a STAR National Products Tie-Anchor® Restraint.

The STAR National Products anchor restraining system offers these specific advantages:

- All coupled pipe joints are **MECHANICALLY LOCKED** together
- Proper Installation can be determined by **VISUAL** checking
- All restraint connections are performed **DURING** pipe installation
- Easy adaptation to various situations and pipe sizes
- Substantial savings over other restraining methods

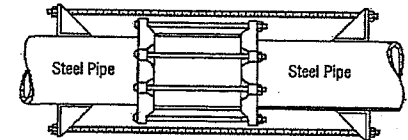


Restraining Harness Configurations

Joint restraint styles shown below may be mixed and matched in various combinations to satisfy your restraint requirements according to pipe type and application.

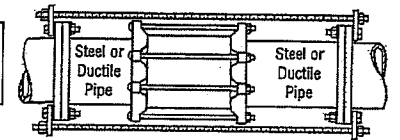
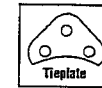
Style 440 Joint Harness

For use restraining steel or stainless steel pipe joint connections



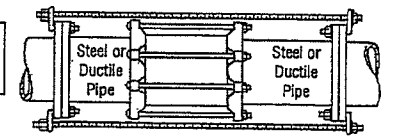
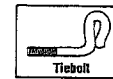
Style 441 TiePlate™

For restraining flanged connections on steel or ductile iron piping systems



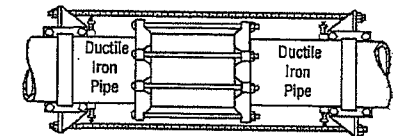
Style 442 TieBolt®

For restraining flanged or mechanical joint connections on steel or ductile iron piping systems



Style 443 TieAnchor®

For restraining joint connections on ductile iron or cast iron piping systems



The STAR National Products restraint system eliminates problems inherent in other restraining methods such as:

- The additional cost in labor of returning to work area for pouring concrete thrust blocks
- Concrete can adhere to fittings or hydrants and make it difficult to spot leaks or remove fittings or hydrants at a later date
- There is no way to determine whether the joint is properly restrained until tested
- Some pipe locations are inaccessible to concrete trucks
- Blocking is impossible in sand, fill, or weak banks

Scissor Lift



Self-Propelled Scissor Lifts

GS™ -2046, GS-2646 & GS-3246

Features

Standard Features

Measurements

GS-2046

- 26 ft (8.10 m) working height
- Up to 1,200 lbs (545 kg) lift capacity

GS-2646

- 32 ft (9.92 m) working height
- Up to 1,000 lbs (454 kg) lift capacity

GS-3246

- 38 ft (11.75 m) working height
- Up to 700 lbs (318 kg) lift capacity

Productivity

- 89 x 45.3 in (2.26 x 1.15 m) steel platform
- 36 in (.91 m) extension deck
- Folding rails with full height swing gate
- Dual front wheel drive
- Universal 20 amp smart charger
- Rear recessed charger receptacle
- Smart Link - 2 speed lift and proportional drive
- Platform control with battery charge indicator and diagnostic display
- On-board diagnostic system
- AC power to platform
- Lanyard attachment points
- Manual platform lowering valve
- Emergency stop at both platform and ground controls
- Rear wheel multiple disc brakes
- Front wheel hydraulic dynamic braking
- Brake release
- Swing-out component trays
- Solid non-marking tires
- Pothole guards
- Tilt level sensor with audible alarm
- Descent alarm
- Electronic horn
- Hour meter

Power

- 24 V DC (four 6 V 225 Ah batteries)

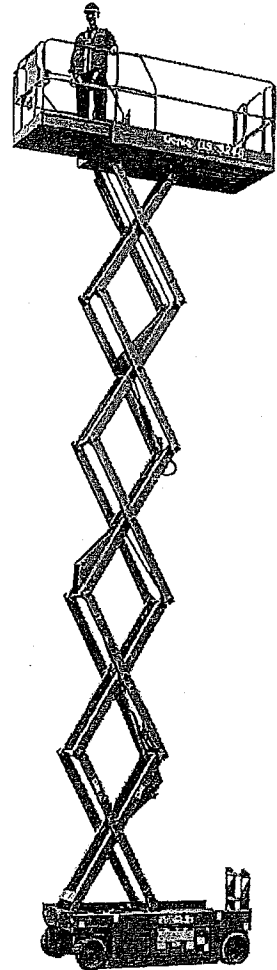
Options & Accessories

Productivity Options

- Air line to platform
- Dual flashing beacons
- Motion alarm
- Automotive horn
- Biodegradable hydraulic fluid

Power Options

- Power inverter (120 V/60 Hz)
- EE rating
- AGM maintenance-free batteries



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Distributed By:

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GS46 0210H, Part No. 109378

www.genielift.com



Self-Propelled Scissor Lifts

GS™-2046, GS-2646 & GS-3246

Specifications

Models	GS-2046		GS-2646		GS-3246	
Measurements	US	Metric	US	Metric	US	Metric
Working height maximum*	26 ft	8.10 m	32 ft	9.92 m	38 ft	11.75 m
▲ Platform height maximum	20 ft	6.10 m	26 ft	7.92 m	32 ft	9.75 m
▲ Platform height stowed	3 ft 4.8 in	1.04 m	3 ft 9.6 in	1.16 m	4 ft 2.75 in	1.29 m
▲ Platform length - outside	7 ft 5 in	2.26 m	7 ft 5 in	2.26 m	7 ft 5 in	2.26 m
extended	10 ft 5 in	3.18 m	10 ft 5 in	3.18 m	10 ft 5 in	3.18 m
Slide-out platform extension deck	3 ft	.91 m	3 ft	.91 m	3 ft	.91 m
▲ Platform width - outside	3 ft 9.3 in	1.15 m	3 ft 9.3 in	1.15 m	3 ft 9.3 in	1.15 m
Guardrail height			3 ft 7 in	1.09 m	3 ft 7 in	1.09 m
Toeboard height	6 in	.15 m	6 in	.15 m	6 in	.15 m
▲ Height - stowed: folding guardrails	7 ft	2.13 m	7 ft 5 in	2.26 m	7 ft 10 in	2.39 m
rails folded	5 ft 1 in	1.55 m	5 ft 6 in	1.68 m	5 ft 11 in	1.80 m
▲ Length - stowed	7 ft 11 in	2.41 m	7 ft 11 in	2.41 m	7 ft 11 in	2.41 m
extended	10 ft 10.5 in	3.31 m	10 ft 10.5 in	3.31 m	10 ft 10.5 in	3.31 m
▲ Width	3 ft 10 in	1.17 m	3 ft 10 in	1.17 m	3 ft 10 in	1.17 m
▲ Wheelbase	6 ft 1 in	1.85 m	6 ft 1 in	1.85 m	6 ft 1 in	1.85 m
▲ Ground clearance - center	4 in	.10 m	4 in	.10 m	4 in	.10 m
▲ - with pothole guards deployed	.75 in	.019 m	.75 in	.019 m	.75 in	.019 m

Productivity

Maximum platform occupancy**	4	4	3	3	2	2
Lift capacity	1,200 lbs	544 kg	1,000 lbs	454 kg	700 lbs	318 kg
Lift capacity - extension deck	250 lbs	113 kg	250 lbs	113 kg	250 lbs	113 kg
Drive speed - stowed	2.2 mph	3.5 km/h	2.2 mph	3.5 km/h	2.2 mph	3.5 km/h
Drive speed - raised	0.5 mph	0.8 km/h	0.5 mph	0.8 km/h	0.5 mph	0.8 km/h
Gradeability - stowed	***	30%		30%		25%
Turning radius - inside	zero	zero	zero	zero	zero	zero
Turning radius - outside	7 ft 6 in	2.29 m	7 ft 6 in	2.29 m	7 ft 6 in	2.29 m
Raise / lower speed	30 / 33 sec	30 / 33 sec	30 / 38 sec	30 / 38 sec	57 / 35 sec	57 / 35 sec
Controls	proportional		proportional		proportional	
Drive	dual front wheel		dual front wheel		dual front wheel	
Multiple disc brakes	dual rear wheel		dual rear wheel		dual rear wheel	
Tires - solid non-marking	15 x 5 x 11 in	38 x 13 x 28 cm	15 x 5 x 11 in	38 x 13 x 28 cm	15 x 5 x 11 in	38 x 13 x 28 cm

Power

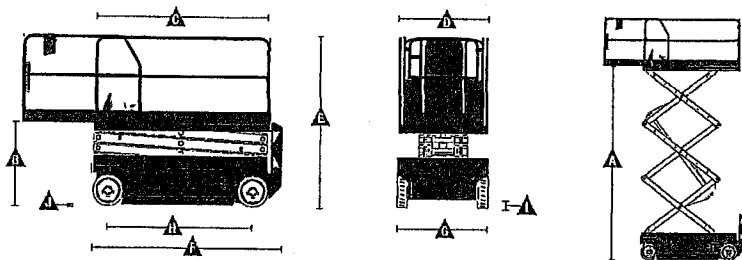
Power source	24 V DC (four 6 V 225 Ah batteries)		24 V (four 6 V 225 Ah batteries)		24 V (four 6 V 225 Ah batteries)	
Hydraulic system capacity	3.75 gal	14.2 L	3.75 gal	14.2 L	4.5 gal	17 L

Weight****

ANSI/CSA	3,977 lbs	1,804 kg	4,312 lbs	1,956 kg	5,211 lbs	2,364 kg
CE/AUS	4,351 lbs	1,974 kg	5,395 lbs	2,447 kg	6,200 lbs	2,812 kg

Standards Compliance

ANSI A92.6, CSA B354.2, CE Compliance, AS 1418.10



- * The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.
- ** CE/AUS markets: Two person maximum occupancy is one person.
- *** Gradeability applies to driving on slopes. See operator's manual for details regarding slope ratings.
- **** Weight will vary depending on options and/or country standards.

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