



BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS

☐ Award ☒ Contract ☐ Grant

Requested Board Meeting Date: 04/16/19

* = Mandatory, information must be provided

or Procurement Director Award ☐

***Contractor/Vendor Name/Grantor (DBA):**

HDR Constructors, Inc.

***Project Title/Description:**

Design-Build Services For: Tres Rios WRF Nutrient Recovery Project (3BBUMP)

***Purpose:**

Amendment: Contract No. CT-WW-18-326, Amendment No. Two (2). This amendment increases the contract amount by \$4,912,637.84 for a cumulative not-to-exceed amount of \$6,778,318.55 and incorporates Guaranteed Maximum Price No. Two (GMP-2). Administering Department: Regional Wastewater Reclamation.

GMP-2 pertains to the construction services for this project. A Small Business Enterprises (SBE) goal of three percent (3%) is established for GMP-2.

***Procurement Method:**

Pursuant to Solicitation for Qualifications No. 262765, on 05/01/18, the Board of Supervisors awarded a contract for design and pre-construction services for this project in the amount of \$666,707.00 for a contract term of 05/01/18 to 12/31/20.

Amendment No. One (1) to incorporate GMP-1 in the amount of \$1,198,973.71 for the acquisition of long-lead equipment was awarded by the Board of Supervisors on 09/04/18.

Attachment: Amendment No. Two (2).

***Program Goals/Predicted Outcomes:**

Struvite formation negatively impacts equipment and treatment processes. This program will allow for better processing and treatment of biosolids by sequestering phosphorus, resulting in the elimination of Struvite formation.

***Public Benefit:**

This program will eliminate the use of Ferric Chloride currently used to prevent Struvite formation and will also reduce the amount of Polymer required for processing biosolids. This will result in lower Operation & Maintenance (O & M) costs and will extend equipment life.

***Metrics Available to Measure Performance:**

The success of this project will be measured by the final impact on the O & M Budget for processing biosolids.

***Retroactive:**

No

Procure Dept 04/03/19 RM0927

Contract / Award Information

Document Type: _____ Department Code: _____ Contract Number (i.e., 15-123): _____

Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____

☐ Expense Amount: \$* _____ ☐ Revenue Amount: \$ _____***Funding Source(s) required:**Funding from General Fund? ☐ Yes ☐ No If Yes \$ _____ % _____Contract is fully or partially funded with Federal Funds? ☐ Yes ☐ No

If Yes, is the Contract to a vendor or subrecipient? _____

Were insurance or indemnity clauses modified? ☐ Yes ☐ No

If Yes, attach Risk's approval.

Vendor is using a Social Security Number? ☐ Yes ☐ No

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment / Revised Award InformationDocument Type: CT Department Code: WW Contract Number (i.e., 15-123): 18-326Amendment No.: Two (2) AMS Version No.: Seven (7)Effective Date: 04/16/19 New Termination Date: _____

Prior Contract No. (Synergen/CMS): _____

☒ Expense or ☐ Revenue ☒ Increase ☐ Decrease Amount This Amendment: \$ 4,912,637.84Is there revenue included? ☐ Yes ☒ No If Yes \$ _____***Funding Source(s) required:** Regional Wastewater Reclamation Department ObligationsFunding from General Fund? ☐ Yes ☒ No If Yes \$ _____ % _____**Grant/Amendment Information** (for grants acceptance and awards)☐ Award ☐ Amendment

Document Type: _____ Department Code: _____ Grant Number (i.e., 15-123): _____

Effective Date: _____ Termination Date: _____ Amendment Number: _____

☐ Match Amount: \$ _____ ☐ Revenue Amount: \$ _____***All Funding Source(s) required:*****Match funding from General Fund?** ☐ Yes ☐ No If Yes \$ _____ % _____***Match funding from other sources?** ☐ Yes ☐ No If Yes \$ _____ % _____***Funding Source:** _____***If Federal funds are received, is funding coming directly from the Federal government or passed through other organization(s)?**Contact: Keith E. Rogers 03-26-19 3-29-19Department: Procurement 3/29/19 Telephone: 724-3542Department Director Signature/Date: [Signature] 4/1/19Deputy County Administrator Signature/Date: [Signature] 4/1/19County Administrator Signature/Date: [Signature] 4/2/19

(Required for Board Agenda/Addendum Items)

PIMA COUNTY WASTEWATER RECLAMATION DEPARTMENT

PROJECT: Design-Build Services For: Tres Rios WRF Nutrient Recovery Project
(3BBUMP)

CONTRACTOR: HDR Constructors, Inc.
8404 Indian Hills Drive
Omaha, NE 68114

CONTRACT NO.: CT-WW-18-326

AMENDMENT NO.: Two (2)

FUNDING: Regional Wastewater Reclamation Department Obligations

CONTRACT TERM: 05/01/2018 - 12/31/2020	ORIGINAL CONTRACT AMOUNT:	\$	666,707.00
TERMINATION PRIOR AMENDMENT: 12/31/2020	PRIOR AMENDMENT(S):	\$	1,198,973.71
TERMINATION THIS AMENDMENT: 12/31/2020	AMOUNT THIS AMENDMENT:	\$	4,912,637.84
	REVISED CONTRACT AMOUNT:	\$	6,778,318.55

DESIGN-BUILD CONTRACT AMENDMENT

WHEREAS, COUNTY and DESIGN-BUILDER have entered into the Contract for the project referenced above; and

WHEREAS, construction of the project was anticipated to be conducted utilizing multiple Guaranteed Maximum Prices (GMPs); and

WHEREAS, long-lead equipment was ordered as authorized by Guaranteed Maximum Price-1 (GMP-1) and design of the project is now complete; and

WHEREAS, Guaranteed Maximum Price-2 (GMP-2) shall pertain to construction of the project; and

WHEREAS, COUNTY and DESIGN-BUILDER, pursuant to Article 3, have agreed to incorporate GMP-2 into the contract for construction of the project; and

WHEREAS, COUNTY'S acceptance of GMP-2 is subject to the understanding of the Parties that all elements of future GMPs, if any, are and remain negotiable; and

WHEREAS, COUNTY and DESIGN-BUILDER pursuant to Article 3 have agreed to increase the Contract amount as identified in GMP-2.

NOW, THEREFORE, it is agreed as follows:

CHANGE: ARTICLE 3 – Scope of Services, Section 3.1, as amended in Contract Amendment No. One (1):

Replace - Exhibit A – Preliminary Schedule – GMP-1 with Exhibit A – Final Project Schedule – GMP-2 (4 pages).

Add - Exhibit C – Phase 2 - Construction Services - GMP-2 (126 pages) to the contract **after** Exhibit C – Phase 2 - Construction Services – GMP-1 (23 pages).

CHANGE: ARTICLE 5 – Compensation and Payment, as amended in Contract Amendment No. One (1):

Add - as sentence 4 to Article 5.2:

County's total payments to Design-Builder for Phase 2 Work – GMP-2, including sales taxes (if applicable), in the not-to-exceed amount of \$4,912,637.84.

CHANGE: ARTICLE 6 - Insurance

Change Article 6.4.3.1 – Builder's Risk – Installation Floater, as amended in Contract Amendment No. One (1):

From: Amount equal to the Contract Completed Value \$1,198,973.71.

To: Amount equal to the Contract Completed Value \$6,778,318.55.

This Amendment shall be effective on April 16, 2019.

All other provisions of the Contract, not specifically changed by this amendment, shall remain in effect and be binding upon the Parties.

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Amendment on the dates written below.

APPROVED:

Chairman, Board of Supervisors

Date

DESIGN-BUILDER:

Anthony Sneed
Signature

ANTHONY SNEED Vice President
Name and Title (Please Print)

APR 11, 2019
Date

ATTEST:

Clerk of the Board

APPROVED AS TO FORM:

Charles Wesselhoft
Deputy County Attorney

CHARLES WESSELHOFT
Printed Name

APR 01 2019
Date

EXHIBIT A - FINAL PROJECT SCHEDULE - GMP-2 (4 pages)

GMP 2 base line

13-Mar-19 12:51

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	2019												2020						
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Pima County-16		579		10-May-18 A	29-Jul-20																			
Pima County-16.1		277		10-May-18 A	03-Jun-19																			
Pima County-16.1.1		277		10-May-18 A	03-Jun-19																			
M1000	Issue NTP with Phase 1	0	100%	10-May-18 A	03-Jun-19																			
M1010	Chartering Session	0	100%	30-May-18 A																				
M1020	Kick Off Meeting	0	100%	30-May-18 A																				
M1030	BODR Complete	0	100%		07-Sep-18 A																			
M1025	Issue NTP on GMP1 for Early Equipment Procurement	0	100%		11-Sep-18 A																			
M1050	60% Design Complete	0	100%		09-Nov-18 A																			
M1080	Permitting (Civil Mechanical Electrical Structural)	20	2%	01-Mar-19 A	03-Apr-19																			
M1060	Final Design Complete	0	100%		01-Mar-19 A																			
M1070	Mobilize to Site and Start Construction	0	0%	03-Jun-19*																				
Pima County-16.1.2		202		17-Aug-18 A	03-Apr-19																			
D1040	Deliver Early GMP1 for Process Equipment	0	100%		17-Aug-18 A																			
D1010	Deliver Draft BODR	0	100%		20-Aug-18 A																			
D1000	Deliver BODR Design-Build Schedule Update	0	100%		31-Aug-18 A																			
D1050	Deliver Final BODR	0	100%		10-Sep-18 A																			
D1020	Deliver BODR Cost Estimate Update	0	100%		10-Sep-18 A																			
D1060	Deliver Final Project Execution Plan	0	100%		17-Sep-18 A																			
D1070	Deliver Draft 60% Design	0	100%		02-Nov-18 A																			
D1080	Deliver 60% Design Permits & Specifications Plan Update	0	100%		09-Nov-18 A																			
D1110	Deliver Final Drawings	0	0%		15-Mar-19																			
D1030	Deliver GMP2 Schedule	0	0%		15-Mar-19																			
D1100	Deliver Final Definitive Project Submittal (GMP2)	0	0%		03-Apr-19																			
Pima County-16.2		579		10-May-18 A	29-Jul-20																			
Pima County-16.2.1		458		10-May-18 A	24-Dec-19																			
Pima County-16.2.1.1		143		10-May-18 A	07-Nov-18 A																			
01-1120	Provide Ph1 Project Management	143	100%	10-May-18 A	07-Nov-18 A																			
01-1000	Mobilize Phase 1 Delivery Team and Start Work	0	100%	14-May-18 A																				
01-1020	Refine Proposed Risk Register	5	100%	17-Aug-18 A	24-Aug-18 A																			
01-1030	Refine and Finalize Change Management Log & Decision Log	7	100%	17-Aug-18 A	24-Aug-18 A																			
01-1140	Deliver Initial Risk Register	0	100%		24-Aug-18 A																			
01-1160	Implement Risk Management Plan	2	100%	24-Aug-18 A	21-Sep-18 A																			
01-1230	Review Risk Register after BODR	5	100%	24-Aug-18 A	05-Oct-18 A																			
Pima County-16.2.1.3		12		14-Aug-18 A	17-Sep-18 A																			
01-1040	Prepare Draft Project Execution Plan	10	100%	14-Aug-18 A	27-Aug-18 A																			
01-1180	Deliver Draft Project Execution Plan	0	100%		10-Sep-18 A																			
01-1190	County Review of Draft Project Execution Plan	1	100%	14-Sep-18 A	14-Sep-18 A																			
01-1240	Finalize PEP	2	100%	14-Sep-18 A	17-Sep-18 A																			
Pima County-16.2.1.9		394		14-May-18 A	24-Dec-19																			
01-1050	Maintain GMP 1 Schedule	40	100%	14-May-18 A	11-Sep-18 A																			
01-1170	County Review Draft GMP 1 DB Schedule	5	100%	11-Sep-18 A	11-Sep-18 A																			
SBI-1050	Issue Sub-Supplier & Materials Orders (SBI)	5	100%	11-Sep-18 A	17-Sep-18 A																			
SBI-1000	Receive & Process Order (PC-TR / SBI)	2	100%	12-Sep-18 A	12-Sep-18 A																			
SBI-1020	Issue Submittal For Major Equipment Package Approvals (SBI)	10	100%	09-Nov-18 A	26-Nov-18 A																			
SBI-1030	Receive Approvals to Submittal Package (PC-TR)	5	100%	27-Nov-18 A	28-Nov-18 A																			
SBI-1010	Invoice Milestone 1: Downpayment For Eng. Services - 10% (SBI)	0	100%	29-Nov-18 A																				

Remaining Level of Effort Actual Work Critical Remaining Work
 Actual Level of Effort Remaining Work Milestone

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TASK filter: All Activities

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Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	2019												2020						
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
SBI-1060	Submit Final Design Approvals Package (SBI)	30	5%	01-Mar-19 A	16-Apr-19	01-Mar-19 A																		
SBI-1040	Invoice Milestone 2: Submittals Approvals - 10% (SBI)	0	100%	01-Mar-19 A																				
SBI-1070	Receive Submittals Approval (PT-TR)	15	0%	16-Apr-19	06-May-19																			
SBI-1080	Equipment Fabrication (SBI)	99	0%	06-May-19	11-Sep-19																			
SBI-1090	Factory Testing & Inspections (PC-TR / SBI)	5	0%	11-Sep-19	17-Sep-19																			
SBI-1100	Equipment Delivery To Site (SBI)	0	0%		08-Oct-19																			
SBI-1110	Invoice Milestone 3: Equipment Delivery - 70% (SBI)	0	0%	08-Oct-19																				
SBI-1120	Invoice Milestone 4: Equipment Start-Up - 10% (SBI)	0	0%	24-Dec-19																				
Pima County-16.2.1.4		130		31-Aug-18 A	18-Feb-19 A																			
01-1060	Prepare Monthly Progress Reports	130	100%	31-Aug-18 A	18-Feb-19 A																			
Pima County-16.2.1.6		213		24-Aug-18 A	12-Feb-19 A																			
01-1130	Set Up Records Management System	20	100%	24-Aug-18 A	07-Sep-18 A																			
01-1070	Maintain Records Management System	115	100%	14-Sep-18 A	12-Feb-19 A																			
Pima County-16.2.1.8		130		09-Oct-18 A	04-Apr-19																			
01-1010	Establish Computerized Maintenance Management System (C&M)	130	90%	09-Oct-18 A	04-Apr-19																			
Pima County-16.2.1.10		118		30-May-18 A	26-Oct-18 A																			
01-1090	Prepare Partnering Charter	10	100%	30-May-18 A	26-Oct-18 A																			
01-1110	Deliver Partnering Charter	0	100%		26-Oct-18 A																			
Pima County-16.2.1.11		42		27-Aug-18 A	19-Oct-18 A																			
01-1210	Conduct BODR Constructability Review	1	100%	27-Aug-18 A	14-Sep-18 A																			
01-1300	Conduct 60% Constructability Review	5	100%	15-Oct-18 A	19-Oct-18 A																			
Pima County-16.2.1.12		61		27-Aug-18 A	06-Dec-18 A																			
01-1220	Conduct BODR Value Engineering	1	100%	27-Aug-18 A	14-Sep-18 A																			
01-1290	Conduct 60% Value Engineering	10	100%	28-Nov-18 A	06-Dec-18 A																			
Pima County-16.2.1.13		123		29-Aug-18 A	01-Mar-19 A																			
Pima County-16.2.1.13.3		123		29-Aug-18 A	01-Mar-19 A																			
02-1020	Conduct Preliminary Investigations Planning	5	100%	29-Aug-18 A	06-Sep-18 A																			
02-1000	Review Existing Info and Prepare Permitting TM for the BODR	20	100%	05-Sep-18 A	06-Sep-18 A																			
02-1010	Submit Drawings to County	0	100%		01-Mar-19 A																			
Pima County-16.2.3		35		16-Jul-18 A	24-Sep-18 A																			
Pima County-16.2.3.1		10		13-Aug-18 A	20-Aug-18 A																			
03-1000	Prepare Basis of Design Development Criteria	10	100%	13-Aug-18 A	20-Aug-18 A																			
Pima County-16.2.3.2		10		16-Jul-18 A	20-Aug-18 A																			
03-1010	Prepare Draft Basis of Design Report	10	100%	16-Jul-18 A	20-Aug-18 A																			
Pima County-16.2.3.3		2		07-Sep-18 A	07-Sep-18 A																			
03-1030	Conduct Basis of Design Review	2	100%	07-Sep-18 A	07-Sep-18 A																			
Pima County-16.2.3.4		25		21-Aug-18 A	24-Sep-18 A																			
03-1020	County Review Basis of Design Report	10	100%	21-Aug-18 A	07-Sep-18 A																			
03-1040	Incorporate Changes and Prepare Final Basis of Design Report	5	100%	07-Sep-18 A	24-Sep-18 A																			
Pima County-16.2.4		82		31-Jul-18 A	02-Nov-18 A																			
Pima County-16.2.4.5		6		07-Sep-18 A	07-Sep-18 A																			
04-1120	Deliver Corrosion Engineering TM (Not Required)	0	100%		07-Sep-18 A																			
04-1100	Corrosion Engineering Assessment (Not Required)	0	100%	07-Sep-18 A	07-Sep-18 A																			
Pima County-16.2.4.8		82		31-Jul-18 A	02-Nov-18 A																			
04-1000	Procure Services of a Subsurface Utility Specialty Sub	10	100%	31-Jul-18 A	20-Sep-18 A																			
04-1010	Procure Services of Geotechnical Subconsultant	5	100%	31-Jul-18 A	20-Aug-18 A																			
04-1030	Conduct Geotechnical Investigations	3	100%	06-Sep-18 A	06-Sep-18 A																			

Remaining Level of Effort Actual Work Critical Remaining Work
 Actual Level of Effort Remaining Work Milestone

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	2019												2020						
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
04-1060	Prepare Draft Geotechnical Report	5	100%	07-Sep-18 A	21-Sep-18 A																			
04-1070	Conduct subsurface Utility Location Study	1	100%	14-Sep-18 A	17-Sep-18 A																			
04-1020	Conduct Subsurface Utilities Investigation and Prepare TM	15	100%	21-Sep-18 A	12-Oct-18 A																			
04-1050	Deliver Subsurface Utilities Investigation TM	0	100%		19-Oct-18 A																			
04-1090	Prepare Final Geotechnical Report	2	100%	22-Oct-18 A	26-Oct-18 A																			
04-1110	Deliver Final Geotechnical Report	0	100%		02-Nov-18 A																			
Pima County-16.2.2		104		10-Sep-18 A	21-Dec-18 A																			
Pima County-16.2.2.3		42		10-Sep-18 A	07-Nov-18 A																			
06-1000	Prepare Draft 60% Design Plans and Specifications	42	100%	10-Sep-18 A	07-Nov-18 A																			
Pima County-16.2.2.9		74		09-Nov-18 A	21-Dec-18 A																			
06-1040	Conduct 60% Design Review Workshop	2	100%	09-Nov-18 A	09-Nov-18 A																			
06-1010	County Review of 60% Design Documents	10	100%	12-Nov-18 A	20-Dec-18 A																			
06-1050	Complete 60% Design	40	100%	28-Nov-18 A	21-Dec-18 A																			
Pima County-16.2.9		51		12-Nov-18 A	15-Mar-19																			
07-1100	Prepare Final Design Plans and Specifications	42	100%	12-Nov-18 A	01-Feb-19 A																			
07-1120	Conduct Final Design Review Workshop	1	100%	01-Feb-19 A	01-Feb-19 A																			
07-1110	County Review of Final Design Documents	10	100%	01-Feb-19 A	13-Feb-19 A																			
07-1130	HDR Finalization of Drawings	5	80%	01-Mar-19 A	15-Mar-19																			
07-1160	HDR to Submit IFC Drawings	0	0%		15-Mar-19																			
Pima County-16.2.6		388		01-Feb-19 A	29-Jul-20																			
08-1030	Pre-Bid Meeting	1	100%	01-Feb-19 A	01-Feb-19 A																			
08-1050	HDR to meet with County to review Bids	1	100%	25-Feb-19 A	25-Feb-19 A																			
08-1040	HDR Compile Bids	5	100%	04-Mar-19 A	08-Mar-19 A																			
08-1000	Initiate Procurement Selection Recommendations (GMP 2)	13	100%	08-Mar-19 A	08-Mar-19 A																			
08-1020	HDR Prepare Initial (GMP2)	4	10%	11-Mar-19 A	15-Mar-19																			
08-1010	Prepare Final Definitive Project Submittal	12	10%	11-Mar-19 A	03-Apr-19																			
08-1060	GMP 2 Approved	0	0%		01-May-19*																			
08-1070	Subcontracts, PO's & Submittals	25	0%	11-Sep-19	16-Oct-19																			
08-1080	Mobilize to site	5	0%	16-Oct-19	23-Oct-19																			
08-1090	Survey & Layout	5	0%	23-Oct-19	30-Oct-19																			
08-1100	Demolition	20	0%	30-Oct-19	27-Nov-19																			
08-1110	Earthwork & Yard piping	40	0%	13-Nov-19	08-Jan-20																			
08-1130	Concrete work	20	0%	27-Nov-19	25-Dec-19																			
08-1120	Electrical duct bank work	10	0%	11-Dec-19	25-Dec-19																			
08-1140	Metal Building Erection	20	0%	25-Dec-19	22-Jan-20																			
08-1160	Electrical Installation	80	0%	08-Jan-20	29-Apr-20																			
08-1150	Process Mechanical Installation	60	0%	22-Jan-20	15-Apr-20																			
08-1220	Paving	6	0%	15-Apr-20	23-Apr-20																			
08-1180	Startup & Commissioning	15	0%	29-Apr-20	20-May-20																			
08-1200	60 Day Performance Test	40	0%	20-May-20	15-Jul-20																			
08-1190	Final Clean	5	0%	20-May-20	27-May-20																			
08-1195	Submit O & M's and other close out packages	10	0%	27-May-20	10-Jun-20																			
08-1210	Close out, Demob	10	0%	15-Jul-20	29-Jul-20																			
08-1230	Project Complete	0	0%		29-Jul-20																			
Pima County-16.2.6.1		0																						
Pima County-16.2.9		50		30-May-18 A	04-Sep-18 A																			
09-1000	Initiate Procurement, Make Selection Recommendations	50	100%	30-May-18 A	04-Sep-18 A																			

Remaining Level of Effort Actual Work Critical Remaining Work
 Actual Level of Effort Remaining Work Milestone

Activity ID	Activity Name	Original Duration	Activity % Complete	Start	Finish	2019												2020						
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
09-1010	Negotiate GMP 1	30	100%	15-Aug-18 A	04-Sep-18 A																			
09-1020	Prepare Final Definitive Project Submittal	20	100%	24-Aug-18 A	04-Sep-18 A																			
Pima County-16.2.7		0																						
Pima County-16.2.10		0																						

Remaining Level of Effort Actual Work Critical Remaining Work
Actual Level of Effort Remaining Work Milestone



March 20, 2019

Pima County
Tres Rios WWTP
Marana, AZ
Attn: Bobby DeAngelo

RE: Contract #CT-WW-18-326

Mr. DeAngelo,

HDR has prepared this request to establish GMP 2 for the Nutrient Recovery project as required by the contract terms and conditions. We have shared all of the subcontract bids received by HDR for completion of the work, and this GMP is based on those subcontractors and vendors.

HDR has also attached a project schedule update which now includes all construction related activities, startup, and closeout of the Nutrient Recovery project.

Attached exhibits show final costs, including engineering and support costs with details for your review. Along with each vendors proposals and proposed delivery schedules. HDR has prepared an updated project schedule to reflect this GMP 2 work.

We look forward to getting the Tres Rios project moving ahead.

Regards

Gary V. Blinger
HDR Constructors Inc.

Cc Tony Shead
Bob Grippin

Assumptions, Clarifications and Exclusions

The attached details and costs for GMP 2 are final and complete

Taxes are included as detailed on the cost breakdown for taxable and non-taxable work items only.

We have not included any costs for building permits

We have not included any costs for SBI loop drawings & Loop descriptions

We have included all programming & integration will be done by the HDR programmers who spent time with the Pima Tres Rios SCADA team to ensure they have the scope covered.

We have attached the SBE form as required

Tres Rios WRF Nutrient Recovery Project**Cost Breakdown GMP 2****Rev. 3-20-19**

Work Items Taxable	Vendor / Subcontractor	Costs
1 HDR Labor	HDR	\$236,227.00
2 General Conditions	HDR	\$82,893.00
3 Concrete & Materials testing	ConformaTech	\$12,000.00
4 Survey control points	Darling	\$8,000.00
5 Demo / Relocation	Ashton	\$124,378.00
6 Earthwork/Yard Piping/Asphalt Paving	Ashton	\$272,572.00
7 Process Mechanical taxable	Ashton	\$97,341.00
8 Metal Building	Ashton	\$120,603.00
9 Metal Building Interior work	Ashton	\$120,031.00
10 Electrical	Ashton	\$1,081,486.00
11 Building concrete work	Ashton	\$68,484.00
	Subtotal taxable	\$2,224,015.00
Work Items Non Taxable		
12 HDRE Design costs for SBI revisions during reviews	HDR Design items	\$15,000.00
13 HDRE owner changes during design	HDR Design items	\$41,399.00
14 HDRE design review of SBI revisions	HDR Design items	\$8,042.00
15 HDRE Services during construction	HDR Design items	\$165,980.00
16 Loop drawings & Descriptions for SBI systems	HDR Design items	\$0.00
17 HDR startup Engineers	HDR	\$88,400.00
	Subtotal design cost items	\$318,821.00
18 SBI added equipment costs	HDR / SBI	\$192,250.00
19 New Chemical Storage Tank	HDR	\$34,917.00
20 Process Piping larger than 4 inches	Ashton	\$634,843.00
21 Installation of main process equipment	Ashton	\$67,284.00
22 Main Process VFD's Furnish & Install	Ashton	\$344,050.00
23 Programming & Integration of main process	HDR Programming	\$163,214.00
24 Process concrete work	Ashton	\$102,727.00
25 SBI final plan changes 3-20-19	HDR / SBI	\$127,450.00

Suntotal non-taxable

\$1,666,735.00

GMP 2 subtotal

\$4,209,571.00

HDR Overhead & Profit

\$389,075.00 10% of construction items
only. No fee on design costs

Additional Builders Risk costs

\$3,118.00 Above what was already
supplied

Additional bond costs

\$36,329.00 Above what was already
supplied

State of AZ taxes

\$124,544.84 5.6% of taxable value

GMP 2 \$4,762,637.84

Owner contingency

\$150,000.00

Contract Amendment Total

\$4,912,637.84

No markup on this item

No markup on this item

No markup on this item

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3	L	W	H	DESCRIPTION	QUAN.	UNIT	LAB	MAT	O	SUB	LABOR	MAT.	OTHER	SUB	TOTAL	Notes		
4																		
5				Const. Manager	1468	HR	74.2		29.68		\$ 108,926	\$ -	\$ 43,570	\$ -	\$ 152,496			
6				Project Manager	250	HR	88.28		35.31		\$ 22,070	\$ -	\$ 8,828	\$ -	\$ 30,898			
7				Scheduler	60	HR	58.21		23,284		\$ 3,493	\$ -	\$ 1,397	\$ -	\$ 4,890			
8				Purchasing	176	HR	47.07		18,828		\$ 8,284	\$ -	\$ 3,314	\$ -	\$ 11,598			
9				Project controls	446	HR	58.21		23,284		\$ 25,982	\$ -	\$ 10,385	\$ -	\$ 36,367	\$ 23,227	Labor subtotal	
10				Expenses	1	LS		7200			\$ -	\$ 7,200	\$ -	\$ -	\$ 7,200			
11				Project Travel	1	ls		4140			\$ -	\$ 4,140	\$ -	\$ -	\$ 4,140			
12				Office Trailer	9	mo		950			\$ -	\$ 8,550	\$ -	\$ -	\$ 8,550			
13				Van (Conex)	9	mo		455.11			\$ -	\$ 4,096	\$ -	\$ -	\$ 4,096			
14				Trailer setup	2	ls		815			\$ -	\$ 1,630	\$ -	\$ -	\$ 1,630			
15				Office Supplies	9	mo		75			\$ -	\$ 675	\$ -	\$ -	\$ 675			
16				Office Equipment	1	ls		272			\$ -	\$ 272	\$ -	\$ -	\$ 272			
17				Office Furniture	1	ls		1634			\$ -	\$ 1,634	\$ -	\$ -	\$ 1,634			
18				Telephone Install	0	ls					\$ -	\$ -	\$ -	\$ -	\$ -			
19				Internet	9	mo		342.67			\$ -	\$ 3,084	\$ -	\$ -	\$ 3,084			
20				Cell Phones	9	mo		69.56			\$ -	\$ 626	\$ -	\$ -	\$ 626			
21				Temp. Power setup	1	ls		3801			\$ -	\$ 3,801	\$ -	\$ -	\$ 3,801			
22				Temp. Power rent	1	mo		977			\$ -	\$ 977	\$ -	\$ -	\$ 977			
23				Temp. Power use	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
24				Temp. Toilets	9	mo		695.55			\$ -	\$ 6,260	\$ -	\$ -	\$ 6,260			
25				Drinking Water/Coffee	9	mo		179.78			\$ -	\$ 1,618	\$ -	\$ -	\$ 1,618			
26				Dust Control	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
27				Postage / Mailings	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
28				Deliveries / Fed Ex	1	ls		500			\$ -	\$ 500	\$ -	\$ -	\$ 500			
29				Schedule program	0	ls					\$ -	\$ -	\$ -	\$ -	\$ -			
30				Reproduction	1	ls		1500			\$ -	\$ 1,500	\$ -	\$ -	\$ 1,500			
31				Temp. Fence	0	lf					\$ -	\$ -	\$ -	\$ -	\$ -			
32				Security	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
33				Job Photos	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
34				Project Signs	1	ea		543			\$ -	\$ 543	\$ -	\$ -	\$ 543			
35				Project Vehicles	9	mo		1900.55			\$ -	\$ 17,105	\$ -	\$ -	\$ 17,105			
36				Gas & Oil	9	mo		493.25			\$ -	\$ 4,439	\$ -	\$ -	\$ 4,439			
37				Safety Supplies	1	mo		652			\$ -	\$ 652	\$ -	\$ -	\$ 652			
38				General Clean up	0	wk					\$ -	\$ -	\$ -	\$ -	\$ -			
39				Trash / Dumpsters	3	mo		2316.67			\$ -	\$ 6,950	\$ -	\$ -	\$ 6,950			
40				Small Tools	1	ls		1000			\$ -	\$ 1,000	\$ -	\$ -	\$ 1,000			
41				Equipment Rental	0	mo					\$ -	\$ -	\$ -	\$ -	\$ -			
42				Final Clean	1	ls		1000			\$ -	\$ 1,000	\$ -	\$ -	\$ 1,000			
43				Subcontract Liability Ins.	1	ls		1255			\$ -	\$ 1,255	\$ -	\$ -	\$ 1,255			
44				Builders Risk Ins.	1	ls		3386			\$ -	\$ 3,386	\$ -	\$ -	\$ 3,386	\$ 12,583	GC costs only	
45				Survey	1	ls			8000		\$ -	\$ -	\$ -	\$ 8,000	\$ 8,000			
46				Testing	1	ls			12000		\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000			
47				GC Total							\$ 168,734	\$ 82,893	\$ 67,493	\$ 20,000	\$ 339,121	\$ 20,000	Vendors	



QUOTATION

Billing Inquiries: (800) 848-1141

Sell To:
HDR CONSTRUCTORS
20 E THOMAS ROAD SUITE 2500

PHOENIX, AZ 85012

Ship To:
HDR CONSTRUCTORS
TRES RIOS WWTP

TUCSON, AZ 85742

Page: 1 of 2
Bid Number: 6587247
Quote Date: 02/13/2019
Entered By: Kent Kingsford - 002
Description: KAK/CHEM TANK BID/BINGER

Account Number: 153307
Contact Name:
Contact Phone: (602) 474-7803

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
/EDN02535246	<p>TANK DETAILS:</p> <p>10' X 14', 8,248 GALLON, VERTICAL FRP TANK, WITH 120 MIL LINER, EMPTY WEIGHT 3,009 POUNDS, WITH DOME TOP/FLAT BOTTOM. PREMIUM VINYL ESTER RESIN WITH DOUBLE NEXUS VEIL. BPO/DMA CURE AND POST CURE. BUILT PER ASTM 3299 STANDARDS. WHITE IN COLOR. ATMOSPHERIC PRESSURE. PRODUCT: MAGNESIUM CHLORIDE TEMP:100F SPG:1.3 CONC.30% TANK FEATURES: FOUR (4) 316 STAINLESS STEEL LIFTING LUGS SIX (6) TYPE II 316 STAINLESS STEEL HOLD DOWN LUGS ONE (1) 4" GOOSENECK VENT ONE (1) 24" TOP MANWAY ONE (1) 24" SIDE MANWAY SS MANWAY BOLTS W/EPDM GSKTS TWO (2) 2" GUSSETED FLG NOZZLE FOUR (4) 3" GUSSETED FLG NOZZLE PIPE SUPPORTS SPARE GASKETS PER NOZZLE AND MANWAY ALL FLANGE NOZZLES 150 PSI DESIGN CALCULATIONS HYDRO TEST KEEP CUTOUTS</p>	EA	1	29,106.4527	29,106.45
/00002535256	<p>FREIGHT FROM SEDALIA, MO TO TUCSON, AZ ONE (1) LOAD, ONE (1) TANK INCL. PERMITS</p> <p>*PURCHASING REF QUOTE #19-1991*</p> <p>**** SPECIAL ORDER ITEM ****</p> <p>*NON-CANCELLABLE/NON-RETURNABLE*</p>	EA	1	5,810.0017	5,810.00



QUOTATION

Billing Inquiries: (800) 848-1141

Sell To:
HDR CONSTRCUTORS
20 E THOMAS ROAD SUITE 2500

PHOENIX, AZ 85012

Ship To:
HDR CONSTRCUTORS
TRES RIOS WWTP

TUCSON, AZ 85742

Page: 2 of 2
Bid Number: 6587247
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Account Number: 153307
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Contact Phone: (602) 474-7803

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
	THANK YOU FOR THE OPPORTUNITY TO QUOTE ON YOUR REQUIREMENT. PRICE WILL REMAIN VALID FOR 30 DAYS F.O.B.: SHIPPING POINT ESTIMATED DELIVERY: 1-2 WEEKS FOR DRAWINGS ARO 10-12 WEEKS DELIVERY AFTER DRAWING APPROVAL CUSTOMER IS RESPONSIBLE FOR APPLICABLE TAXES IF ANY TERMS: 10% AT PO, 25% AT ART APPROVAL WITH THE BALANCE DUE AT SHIPMENT TO IMPROVE QUALITY & ACCURACY REFERENCE THIS BID NUMBER WHEN ORDERING. THANK YOU, KENT KINGSFORD ---- Package Subtotal: 34,916.45				

Subtotal: 34,916.45

03/08/2019

15:53

B190215

TR NUTRIENT RECOVERY PROJECT

*** Shawn Silvester

BID TOTALS

<u>Biditem</u>	<u>Description</u>	<u>Status - Rnd</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Bid Total</u>
0100	DEMOLITION/RELOCATION WORK	U	1.000	LS	124,378.00	124,378.00
0200	EARTHWORK/YARD PIPE/ASPHALT PAVING	U	1.000	LS	272,572.00	272,572.00
0300	PROCESS PIPING 4" AND LARGER	U	1.000	LS	634,843.00	634,843.00
0400	INSTALLATION SCHWING BIO SET EQUIP	U	1.000	LS	67,284.00	67,284.00
0500	SUPPLY/INSTALL PROCESS MECHANICAL	U	1.000	LS	97,341.00	97,341.00
0600	METAL BUILDING EXCLUDE ROLL UP DOORS	U	1.000	LS	120,603.00	120,603.00
0700	CONTRBLDG INTER FINISH/ROLL UP DOORS	U	1.000	LS	120,031.00	120,031.00
0800	ELECTRICAL COMPLETE EX PROCESS VFD'S	U	1.000	LS	1,081,486.00	1,081,486.00
0900	PROCESS VFD'S	U	1.000	LS	344,050.00	344,050.00
1000	PROGRAMMING & INTEGRATION	U	1.000	LS	99,514.00	99,514.00
1100	ALL CONCRETE	U	1.000	LS	171,211.00	171,211.00

Bid Total



\$3,133,313.00

Tyler Reinforcing LLC

PO Box 6520

(602) 269-5900

Phoenix, AZ 85005

Lic No: AZ ROC #296786

Proposal No: **180762.1**

Proposal Date: **2/22/2019**

This proposal is valid for

30 days from date shown above.

BID PROPOSAL

SECTION I- GENERAL INFORMATION

Proposal to: **Bidding Contractors**

Project Name: **Tres Rios WRF Nutrient Recovery**

Ref. No.:

7101 N. Casa Grande Highway
Marana, AZ.

Attn: **Estimating Dept.**

Engineer: **HDR**

Owner: **PCWRF**

Dwgs Quoted: **Sheets 64-S-001 thru 64-S-007**
Pre-Final Design Drawings

Specs:

Addenda:

SECTION II- SCOPE OF WORK

Concrete Deformed Reinforcing Steel Detailed, Furnished & Installed per ACI & CRSI Standards.

SECTION III- PRICES

Bid Item	Description	Material	Labor	Total
	Concrete Reinforcing	\$6,977.00	\$3,990.00	\$10,967.00
		\$0.00	FOB	\$0.00
	Tank Slab Reinforcing	\$12,739.00	\$7,290.00	\$20,029.00
		\$0.00	FOB	\$0.00
		\$0.00	FOB	\$0.00
		\$0.00	FOB	\$0.00
		\$0.00	FOB	\$0.00
		\$0.00	FOB	\$0.00

Taxes are EXCLUDED from prices shown.

Total Reinforcing Items= **\$30,996.00**

SECTION IV- SPECIAL CONDITIONS, EXCLUSIONS AND/OR CLARIFICATIONS FOR THIS PROJECT

- 1 Prices are based on a Start Date of not later than _____ and shall remain valid through _____. Any rebar shipped AND/OR installed after that date will be subject to an increase of _____/Ton every _____ months.

2
3
4
5
6
7
8
9

- 10 Above prices based on NO RETENTION for contracts of \$50,000 or less.

SECTION V- CONTRACTOR TO PROVIDE AT NO COST TO SELLER

- 1 X All lines, grades, racks, forms, layout and rigid templates accurately in place before installation, except those forms or other materials that will hinder the installation.
- 2 X Firm, level, subgrade at elevation shown on drawings including all levels, datum lines, elevations, openings and dowel outs for concrete &/or masonry.
- 3 X Clear access roads & ramps for unloading of trailer/truck deliveries to within 50 feet of point of installation, and reasonable storage and lay-down areas.
- 4 X Cages for drilled piers, shafts, caissons, and light pole standards will be tied and stockpiled by Subcontractor.
- 5 X Suitable equipment fully operated for hoisting/lowering reinforcing steel, personnel, wire mesh, etc, including unloading trucks, staging of reinforcing to points of installation (into foundations, and onto elevated decks, etc) setting columns, wall cages and/or any other pre-tied assemblies including power placing of individual bars as required.
- 6 X Copies of all contract documents in quantities as reasonably requested.
- 7 X Parking area and/or cost of parking for field crews and provide area for jobsite office including utility hookup.
- 8 X Furnish design information, location of pour joints and construction schedules in sufficient time to allow for the preparation and approval of detail drawings plus a minimum of seven (7) working days for fabrication and delivery. 48 hours notice is required for cancellation of previously scheduled deliveries and two (2) week's notice of job requirements.
- 9 X This proposal is based on pouring the walls and top slabs in all reinforced concrete box culverts monolithically.
- 10 X 24 hour notice for workman at jobsite and placement to be done on normal 8 hour shift excluding weekends and holidays.

SECTION VI- STANDARD EXCLUSIONS BY SELLER & FURNISHED BY BUYER

- 1 X Cost of Inspections, crane inspections, testing, bonds, permits, penalties or Liquidated Damages.
- 2 X Inserts, sleeves, rubatex, water stops, smooth dowels and /or dowel baskets, galvanized or epoxy coated dowels, threaded rebar, stud rails and placing of stud rails.
- 3 X Cleaning, cutting, straightening, locating or rework of existing reinforcing steel, reinforcing extending from piles, or precast
- 4 X Cutting, drilling of holes, grouting, field bending or dry-packing of reinforcing steel.
- 5 X Burning, cutting, or drilling of structural steel/miscellaneous iron to pass reinforcing steel.
- 6 X Protection and/or cleaning of others work, covering, painting, greasing or wrapping of reinforcing steel or smooth dowels.
- 7 X Rebar Safety Caps or devices for covering rebar ends.
- 8 X All welding and rebar welded to structural/ miscellaneous iron.
- 9 X Blocking, chairing, wrapping and/or pulling of welded wire fabric.
- 10 X All dead men, cables, labor and engineering of system for guying of rebar, if required.
- 11 X Cleaning of tie wire clippings, tags and other spoils from work areas. cost of dumpster and composite crew cleanup, except as mutually agreed.
- 12 X Lines, grades, steel racks, templates, scaffolding, safety rails, work platforms & ramps, sanitary facilities and jobsite access to drinking water.
- 13 X Removal, grinding &/or patching of staples, nails, bolts and/or any other device used for the placement of concrete reinforcing accessories.
- 14 X Reinforcing for Anchor Points (and the Anchor Points) for Shotcrete, Precast, Closure Pours, Precast Connections and Prestressing Items.
- 15 X Sand Plated Chairs.
- 16 X Test bars and test couplers (except those specifically called out in specs)
- 17 X Adequate power and lighting when necessary.
- 18 X Cost of reworking or replacing reinforcing steel damaged or lost due to flood, actions of buyer, other subcontractors or other acts of God.
- 19 X Blocks, inspection tubes, wheels or spacers for clearances in drilled shafts or caissons.
- 20 X Tie wire, accessories and field placing aids for F.O.B. materials.
- 21 X Prevailing Wage Rates or Job Specific Labor Agreement Rates. Proposal based on Open Shop wages.
- 22 X Design Engineering, Engineer stamping of drawings, Field Measurements and As-Built drawings.
- 23 X Sitework, Masonry Rebar, Mock Ups, MSE Walls, Electrical Quot Bank, Equipment Pads, Pipe Encasement &/or Supports. (Unless specifically stated as included)
- 24 X Supply & Installation of reinforcing for stair landings and treads.
- 25 X Layout of TOW, TOF, EOW, expansion/construction joints, corners, doorways, blockouts and/or openings of any kind and Masonry Dowels.
- 26 X Separate Pour Watchman, Fire Watchman, Safety Manager, QC Mgr, Traffic Control or Onsite Security.
- 27 X Trim reinforcing for openings, penetrations, and inserts not specifically located on Structural Drawings.
- 28 X Double handling costs, including costs to transport material from an unreasonably located area.
- 29 X Unloading, handling &/or setting of FOB materials (including Prebuilt Drilled Shaft Cages).
- 30 X Dust control, Storm Water management and/or similar environmental programs.
- 31 X Third party invoicing processing fees or enrollment in third party invoicing services.
- 32 X Re-Detailing of shop drawings & reviewing/processing of changes will be at \$65.00/Hr.
- 33 X Build Information Modeling (BIM), 3D Modeling and similar, unless specifically stated otherwise.
- 34 X Non-standard work week and/or special work hours. (This bid proposal based on M-F, 8hr/workday, daylight hours, unless specifically stated otherwise.)

Tyler Reinforcing LLC
SECTION VII- TERMS AND CONDITIONS

PO Box 6520 Phoenix, AZ 85005, (602) 269-5900

- 1 **Terms of Sale:** Payment Terms – Subject to on-going credit approval: Net 30 days from date of invoice. Interest will be charged on all past due balances per the maximum rate allowed by law. Legal fees and costs will be paid as awarded to the prevailing party in the event of a legal dispute. Seller reserves the right to stop Work or demand security as required. Buyer agrees to pay Seller in accordance with the escalation policy as specifically identified in this proposal. "Work" is hereby defined as the performance of all work as listed above and included in any accepted Agreement, plus any changes, acceleration/out of sequence work, damages, escalation and costs incurred for the cause or benefit of Buyer or others.
- 2 **Acceptance:** Prices of individual bid items are subject to renegotiation if Buyer elects not to accept this complete proposal as presented. If Seller is requested to proceed with the work prior to the execution of a mutually agreed Contract, or if the work is completed prior thereto, the Terms and Conditions herein shall govern pending said Agreement. No assignment of this proposal shall be made without our prior written consent. We reserve the right to sublet portions of our Work.
- 3 **Schedule:** Seller's price is based upon detailing, fabrication, and placing on a normal 5-day, Monday to Friday, 40 hour work week, daylight hours unless explicitly noted on the face hereof. Performance will be based on bid documents as provided for tender and industry standards/CRSI. Schedule and schedule changes to be mutually agreed. Buyer to provide Seller (48) hours' notice of cancellation or modifications to schedule deliveries. Buyer agrees to provide adequate notice for workmen required at the jobsite and sufficient work for at least one full shift. Detailing submittals will be sequenced in a manner appropriate to the construction schedule. Working schedules to be made by mutual agreement of the Contractor and Subcontractor to conform to Contractor's master schedule. In event duration times are provided by Subcontractor, it is agreed that time starts only when work areas are provided ready to receive installation in all respects, in accordance with OSHA and State safety regulations.
- 4 **Back Charges/Shipping Discrepancies:** No charges for labor or materials furnished by the Buyer shall be allowed as a credit unless authorized in writing by Seller within ten (10) days of said occurrence. After a twenty four (24) hour period, all loads will be assumed to be verified.
- 5 **Safety:** Buyer will provide at no cost to Seller, general jobsite conditions conforming to OSHA standards and local governing authorities, including, but not limited to, adequate protection to ensure the safety of those working above reinforced steel as required, furnishing and installation of rebar safety caps or other OSHA compliant impalement hazard protection as required; Detection of/protection from underground and other utilities; Safe access, signage and other required warnings, flagging, barriers/barricades, general site and task lighting as required; Shoring, fall-protection anchorage points, walkways; approved scaffolding and staging in place as required, trenches, rails, snow and ice removal, all weather truck access; safe access to points of storage and work, etc. all as required.
- 6 **Insurance:** General Liability insurance will be provided solely for work performed by Seller and/or its engaged parties. Seller is not providing insurance for any liabilities that exceed Seller's responsibilities and/or liabilities. Additional Insured Endorsements may limit liabilities to those assumed under the Agreement and exclude Professional Liabilities. XCU, subsidence, Professional Liability, Aircraft, Pollution Liability and mold coverage are excluded as not applicable to this trade. Additional coverage or alternate requirements not set forth herein and mutually agreed are subject to availability and any additional costs. Seller excludes Builders Risk Insurance and return receipt requested notices for all certificates of insurance. Compliance requirements for any hired sub-subcontractors are subject to availability.
This bid proposal is based on Seller providing General Liability insurance of \$2,000,000.00. Any additional coverage may result in additional costs.

SECTION VIII- CONDITIONS OF SALE EXCLUDED:

- 1 Pay if paid or "Pay when paid" conditions precedent for all properly completed work, including base scope of work, changes, acceleration/out of sequence work, damages, escalation and costs incurred for the cause or benefit of Buyer or others ("Work"); Retention exceeding the rate withheld by Owner; Retention on F.O.B. items.
- 2 Indemnification, claim, and defense liabilities; responsibilities or damages exceeding any proportionate extent of cause by Seller's active negligence or willful misconduct.
- 3 Minority, DBE, DVBE, SBE, WBE and other special hiring status content, affiliation, or contribution to such requirements.
- 4 Risk, liabilities and responsibilities arising from existing conditions and preceding work exceeding visual inspection, including, but not limited to, field measurements, surveying, layout, forming and materials supplied by others; Costs arising from differing conditions and/or requirements from plans or drawings or bar lists provided for performance.
- 5 Design engineering and related Professional Liabilities and responsibilities; Costs and damages due to varying conditions and requirements.
- 6 Waiving any rights of dispute or redress; Costs/risks of claims against Owner for undisputed portions of our Work.
- 7 Forms and information requirements not mutually agreed; Unconditional forms of release in advance of receipt of funds; Releases that fail to exclude pending changes, unpaid balances, and retention as applicable; Releases for claims unrelated to payment for work performed; Non-conforming forms of waivers and releases within States that provide Statutory release language.
- 8 Reports, waivers, and other forms and contractual obligations related to bulk suppliers to our inventory stock who do not have lien rights.
- 9 Warranties exceeding Seller's scope of responsibilities or one (1) year; Guarantees of work performed by others; any forms of warranties, express or implied, of merchantability or fitness for purposes intended.
- 10 Risks and responsibilities for equipment and/or employees of Buyer or others providing services, or manning equipment used in connection with, but not within, Seller's scope of Work.
- 11 Liquidated and delay damages exceeding actual damages incurred, our scope of responsibility and/or our proportionate extent of cause, and for Force Majeure; Property damage, remedial work and/or replacement of Work and the work of others to the extent made necessary by others or Force Majeure.
- 12 Increased labor and material costs and/or damage in the event of project suspension or delay.
- 13 General Liability credits for any wrap-up insurance programs.
- 14 Prime contract terms, conditions, and scope in addition to, and/or in conflict with, a mutually agreed contract and Seller's scope of work and responsibilities as described herein.
- 15 Reports, submittals and data requirements not applicable to our trade, reasonably required or mutually agreed; Release of proprietary or other confidential information.
- 16 Any portion of fines or penalties exceeding the extent of cause by Seller; Any increased, surcharged or escalated portion of fines incurred by Buyer.
- 17 Enrollment/contributions to unions to which Subcontractor is not signatory; compliance with any additional or conflicting term, condition, or rate of pay, etc. between Seller's labor agreement and others affiliated with the Project.
- 18 Guarantors.
- 19 Site security.

SECTION X- ACCEPTANCE

The above proposal including all attached and referenced documents shall constitute a contract or shall be part of a contract is subject to on-going credit approval. Prices shown are for the complete project and NO single item price or group of prices are valid alone without the consent of the Seller. We reserve the right to modify/negotiate amendments to any Contractor issued forms of Agreement, as required to properly describe scope of work, pricing and mutually agreed terms and

Buyer: _____
By: _____
Title: _____ Date: _____

Seller: **Tyler Reinforcing LLC**
By: **Joel Byko**
Title: **Commercial Sales Manager** Date: _____



Revised PROPOSAL

Date: 11/30/18 – 2/21/19

Submitted To: Ashton
Attention: Alan Silvester

Project: Tres Rios Nutrient Recovery Bldg
64

Proposed services and equipment are limited to items specifically listed below
HVAC: Provide and Install (3) Mitsubishi VFR duct free split systems per plan and schedule (6 indoor AHU-3 outdoor CU) Refrigerant and condensate piping, Bac Net card, wired thermostats, TAB, Climatec Controls, Warranty
Plumbing: Provide and install new domestic and waste water piping per plan and spec, New fixtures and eyewash per plan and schedule, Piping to terminate (5') outside of building walls, Test, Warranty

Excludes: All Demo, Davis Bacon Wages, The servicing, support and warranty of existing material and equipment or owner provided equipment. Fire alarm work, framing, blocking, structural framing, relocation of existing utilities, blue staking, taxes/ permits/ fees. , Fire Sprinklers, Architectural Metals and HVAC are not necessarily included in the proposal, the proposal outlines what scope of work we are covering. When we quote multiple scopes of work please check before assuming we will accept a contract for selective portions.

Terms: Net 30 Days

Base Bid: \$87,300.00 (+ sales tax \$2,815.00)

We appreciate your consideration of this quotation and would like to thank you for your interest in Advantage Air Mechanical's services. Should you have any questions concerning the above quotation, please feel free to contact me personally @ (520) 780-6483 or at Rob@AdvantageAirMechanical.com.

Respectfully Submitted,

Rob Larson

ACCEPTANCE OF PROPOSAL: All work is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorneys' fees. This proposal may be withdrawn within 20 days if not accepted. Advantage Air Mechanical to carry necessary insurance upon above work including workman's compensation and liability insurance. Advantage Air Mechanical does not employ any mechanical engineers. Equipment and distribution designed by Advantage Air is not guaranteed to achieve specific design criteria other than that which said equipment is rated for. Advantage Air Mechanical is licensed and bonded. All equipment and material are property of Advantage Air Mechanical until payment in full is made.

Date of acceptance:

Signature:

www.AdvantageAirMechanical.com

3238 East Forty Fifth Street Tucson, Arizona 85713

(520) 792-9400 Main (520) 885-3904 Fax

ROC No.214570 K-39/ C-39R Air Conditioning and Refrigeration

ROC No.263466 K-77/ L-77/C-37/ C-37R Plumbing, Solar and Fire Protection

ROC No. 263465 Architectural Sheet Metal

sBE Certified

PROPOSAL

TO: Estimating Department

PROPOSAL #: 18-7175

FROM: Gilbert Encinas, Climatec, LLC
gencinas@climatec.com / 520-262-3069

PROPOSAL DATE: February 20, 2019

RE: Tres Rios Water Treatment Plant
Building #64 Nutrient Recovery Project – BAS Proposal (REV1)

PLAN DATE: January 31, 2019

Climatec, LLC is pleased to provide this Proposal for the Building Automation System (BAS) that will interface with the existing Alerton EMS. Climatec LLC will provide project management, control devices, install labor, install materials, startup, check out and test for proper operation. Proposal cost was based off detail from the provided revised Drawings, dated January 31, 2019.

Scope of Work

The following equipment is controlled under this proposal:

Front-End – Existing

Operator Workstation(s): Tie into existing and update Front-End graphics.

Global Controller*

- BAS Router, BACnet to MS/TP.
 - ◆ *Data/Network connections and IP addresses will be the responsibility of the owner network IT department*

VRF Split System Unit - BACnet Interface (Typical of 6)

- BAS System wire interfacing to unit's BACnet Cards (at all exterior Condensing Units)
- BAS Network Communication Wiring
- Interface Verification & Network Component Installation
- Interface VRF into existing BAS system
 - ◆ *All VRF unit components are to be provided by the unit manufacturer*
 - ◆ *Network connections and IP addresses will be the responsibility of the owner network IT department*
 - ◆ *Installation of Manufacturer provided thermostat to be provided by others*

Emergency Shower Monitoring/Notification Interface (Typical of 1)

- Water Flow Alarm Monitoring and Notification
- DDC Controller with Low Voltage Transformer
- BAS Network Communication Wiring
- Horn/Strobe, NEMA Outdoor Rating (location to TBD with Owner, per Sheet 64-H-002, Keynote #5)
***NOTE: Dry-Contact status output for BAS monitoring to be included with Shower or provided by Others. Not included in this proposal.**

PROJECT PRICING:

We propose to furnish the materials and/or perform the work described above excluding all applicable taxes for the price of:

\$7,375.00

The above pricing is valid for 60 days from the date of this scope.

CLARIFICATIONS

FURNISH & INSTALL

1. Provide the Installation of Router. Necessary cable, wire, conduit, and relays from provided BACnet cards to Router. Unit BACnet cards by others.
2. Provide submittals, diagrams and as-built documentation prior to field install.
3. Provide software Engineering, Programming, Pre-Testing, and Start-up.
4. Provide custom graphic generation for each piece of equipment based upon backgrounds provided by the architect. Any charges associated with acquiring these drawings will be the responsibility of others.

ASSUMPTIONS

1. Assumes warranty is for 1 year from date of acceptance.
2. Assumes work to be performed during normal business hours from 7am to 5pm.
3. Assumes Shower will have a dry-contact status output for monitoring. Output is required.
4. Assumes VRF units will come with appropriate BACnet cards/terminal strip to allow for Controls interfacing.
5. Assumes installation will be plenum cable above accessible ceiling and EMT conduit in exposed or exterior areas.
6. Assumes that any necessary wiring and termination from the VRF to the Condensing Units and Stat location to be completed by others.
7. Assumes that specified VRF (Sheet 64-H-003) unit will be the installed unit.

EXCLUSIONS

1. Excludes 120VAC power shall be by Div. 26.
2. Excludes all High Voltage (120VAC and higher) power connections, breakers, breaker panels, junction boxes and wiring. All power shall be provided by Div. 16.
3. Excludes Test and Balance for both the Air Systems and the Water Systems. Test and Balance shall be provided by a certified TAB contractor, Climatec BTG will assist TAB contractor on controls related items ONLY.
4. Excludes all additional Commissioning and Commissioning Assistance. Climatec BTG includes standard Point-to-Point verification and sequence verification on all jobs. Any additional verification, assistance, and/or testing may be provided under a separate contract.
5. Excludes professional engineering, taxes, bonds and overtime work.
6. Excludes Network Connection and IP Address Information.
7. Excludes starters, disconnects & VFD's, VFD's shall include control system open protocol compatibility BACnet.
8. Excludes condenser line-set wiring between indoor fan and outdoor condenser.
9. Excludes all work in association with Fire/Life Safety, including interfaces and interlocks to the Fire Alarm system, Smoke Detectors, Fire Dampers, Smoke Control Dampers and Smoke/Fire Dampers.
10. Excludes Air Valves and Pressure Room Monitors, includes installation of said devices.
11. Excludes Medical Gas Equipment and Installation of said devices.
12. Excludes open protocol gateways required for 3rd party devices and equipment that are not MODBUS or BACnet.
13. Excludes installation of Control Valves, Temperature Wells, Water & Steam Pressure Taps, and Fluid Flow Meters assumes installation by the mechanical contractor.
14. Excludes underground conduit and wiring or wiring and conduit between buildings.
15. Excludes Power transfer switches and relays & Open Protocol Gateways with all electrical equipment.
16. Excludes concrete/asphalt cutting, removal or patching, trenching or back filling.
17. Excludes structural building/walls cutting, painting, patching and coring.
18. Excludes electrical permits.
19. Excludes payment and performance bonds unless add alternate is accepted.
20. Excludes all responsibility for asbestos identification, abatement, removal, and disposal.
21. Excludes all controllers, controls components, sensors, meters, and any other devices not specifically mentioned on the scope of work above. Any additional pricing required for this project can be discussed and proposed under a separate scope of work.

Terms and Conditions

By accepting this Proposal, Purchaser agrees to be bound by the following terms and conditions:

1. **SCOPE OF WORK.** This proposal is valid for 60 days from date of proposal. Beyond that time Climatec reserves the right to revise any or all portions of it. This proposal is based upon the use of straight time labor only unless stated otherwise in this proposal. Plastering, patching and painting are excluded unless stated otherwise in this proposal. "In-line" duct and piping devices, including but not limited to valves, dampers, humidifiers, wells, taps, flow meters, orifices, etc., if required hereunder to be furnished by Climatec Building Technologies Group (Climatec), shall be distributed to and installed by others under Climatec's supervision but at no additional cost to Climatec. Purchaser agrees to provide Climatec with required field utilities (electricity, toilets, drinking water, project hoist, elevator service, etc.) without charge. Climatec agrees to keep the jobsite clean of debris arising out of its own operations. Purchaser shall not back charge Climatec for any cost or expenses without Climatec's written consent.

Unless specifically noted in the statement of the scope of the work or services undertaken by Climatec under this agreement, Climatec's obligations under this agreement expressly exclude any work or service of any nature associated or connected with the identification, abatement, clean up, control, removal or disposal of environment Hazards or dangerous substances, to include but not to be limited to asbestos, PCBs, or mold discovered in or on the premises. Any language or provision of the agreement elsewhere contained which may authorize or empower the Purchaser to change, modify or alter the scope of work or services to be performed by Climatec shall not operate to compel Climatec to perform any work relating to Hazards without Climatec's express written consent.

2. **INVOICING & PAYMENTS.** Climatec may invoice Purchaser for all materials delivered to the job site or to an off-site storage facility and for the work performed on-site and off-site. Purchaser agrees to pay Climatec amounts invoiced upon receipt of invoice. Waivers of lien will be furnished upon request, as the work progresses; to the extent payments are received. If Climatec's invoice is not paid within 30 days of its issuance, it is delinquent and Climatec shall add 1% per month interest onto delinquent amounts.
3. **MATERIALS.** If the materials or equipment included in this proposal become temporarily or permanently unavailable, the time for performance of the work shall be extended to the extent thereof, and in case of permanent unavailability, Climatec shall (a) be excused from furnishing said materials or equipment, and (b) be reimbursed for the difference between the cost of the materials or equipment permanently unavailable and the cost of a reasonable substitute therefore.
4. **WARRANTY.** Climatec warrants that the equipment manufactured by it shall be free from defects in material and workmanship arising from normal usage for a period of one (1) year from delivery of said equipment, or if installed by Climatec, for a period of one (1) year from the installation date. Climatec warrants that for equipment furnished and/or installed but NOT manufactured by Climatec, Climatec will extend the same warranty and terms and conditions, which Climatec receives from the manufacturer of said equipment. For equipment installed by Climatec, if Purchaser provides written notice to Climatec of any such defects within thirty (30) days after the appearance or discovery of such defect, Climatec shall, at its option, repair or replace the defective equipment and return said equipment to Purchaser. All transportation charges incurred in connection with the warranty for equipment not installed by Climatec shall be borne by Purchaser. These warranties do not extend to any equipment which has been repaired by others, abused, altered or misused, or which has not been properly and reasonably maintained. THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE.
5. **LIABILITY.** Climatec shall not be liable for any special, indirect, or consequential damages arising in any manner from the equipment or material furnished or the work performed pursuant to this agreement.
6. **TAXES.** The price of this proposal does not include duties, sale, use, excise or other similar taxes unless required by federal, state or local laws unless stated otherwise in this proposal. Purchaser shall pay, in addition to the stated price, all taxes not legally required to be paid by Climatec or, alternatively, shall provide Climatec with acceptable tax exemption certificates. Climatec shall provide Purchaser with any tax payment certificate upon request and after completion and acceptance of the work.
7. **DELAYS.** Climatec shall not be liable for any delay in the performance of the work resulting from or attributed to acts of circumstance beyond Climatec's control, including but not limited to acts of God, fire riots, labor disputes, conditions of the premises, acts or omissions of the Purchaser, Owner or other Contractors or delays caused by suppliers or subcontractors or Climatec, etc.
8. **COMPLIANCE WITH LAWS.** Climatec shall comply with all applicable federal, state, and local laws and regulations. All licenses and permits required for the prosecution of the work shall be obtained and paid for by the purchaser unless stated otherwise in this proposal.
9. **DISPUTES.** All disputes involving more than \$15,000 shall be resolved by arbitration in accordance with the rules of the American Arbitration Association. The prevailing party shall recover all legal costs and attorney's fees incurred as a result. Nothing here shall limit any rights under construction lien laws.
10. **INSURANCE.** Insurance coverage in excess of Climatec's standard limits will be furnished when requested and required and at Climatec's discretion the costs of this additional insurance may be passed on to the Purchaser. No credit will be given or premium paid by Climatec for insurance afforded by others.
11. **INDEMNITY.** The Parties hereto agree to indemnify each other from any and all liabilities, claims, expenses, losses or damages, including attorney's fees which may arise in connection with the execution of the work herein specified and which are caused, in whole or in part by the negligent act or omission of the indemnifying Party.
12. **OCCUPATIONAL SAFETY AND HEALTH.** The Parties hereto agree to notify each other immediately upon becoming aware of an inspection under, or any alleged violation of, the Occupational Safety and Health Act (OSHA) relating in any way to the project or project site.
13. **ENTIRE AGREEMENT.** This proposal, upon acceptance, shall constitute the entire agreement between the parties and supersedes any prior representations or understandings.
14. **CHANGES.** No change or modification of any of the terms and conditions stated herein shall be binding upon Climatec unless accepted by Climatec in writing.
15. **SEVERABILITY.** If one or more of the provision of this agreement are held to be unenforceable under laws, such provision(s) shall be excluded from these terms and conditions and the remaining terms and conditions shall be interpreted as if such provision were so excluded and shall be enforced in accordance to their terms and conditions.

Proposal Accepted:
Climatec is authorized to proceed with the work as proposed in
above scope of work and pricing proposal.

Proposal Submitted:
Climatec, LLC

Purchaser

By

Title

Date

PO #

Seller

Climatec, LLC

By

Title

Date

Email

Gilbert Encinas

Business Development Manager

February 20, 2019

gencinas@climatec.com

This proposal is valid for 60 days.



February 18, 2019

The Ashton Company
Alan Silvester
P.O. Box 26927
Tucson, Arizona 85726

RE: Pima County Tres Rios WRF- Nutrient Recovery

Alan,

Below please find price to prep and coat new piping associated with above mentioned project. Piping listed on Bill of Materials is covered by this proposal. Piping will be coated per outlined coating system.

Proposed Coating System

- SSPC SP-3 Power Tool Clean
- One (1) Coat of Tnemec Series N69 Epoxy @ 4-6 Mils
- One (1) Coat of Tnemec Series 1075 Polyurethane @ 2-3 Mils

Labor, Materials and Equipment \$26,752.00

Please review and feel free to contact me if you have any questions.

Best Regards,

Alex "Bruiser" Ortega

Alex "Bruiser" Ortega
General Manager
NACE Certified Coating Inspector
Level 3 -Cert. No. 47886



3237 E. President St. • Tucson, AZ 85714 • 520-573-0051 • Fax 520-294-8353
ROC-095603 L-34 • ROC-129492 L-05 • Website: www.aopaintinginc.com





ACO, Inc.
825 W Beechcraft Street

Casa Grande, AZ 85122

Page 1 of 2

Quotation

Name: The Ashton Company, Inc.
Address: 2727 South Country Club Road
Address:
City/St/Zip: Tucson AZ 85713
Contact: Ella Yakorevsky
Tel/Fax: (520) 909-4825 (520) 791-9059

Number: 3029150 Rev. -
Project: Tres Rios WRF Nutrient Facility
Date: Tuesday, February 19, 2019
Quote By: Kornes, Deborah
Tel: (520) 421-9968
Fax: (520) 421-9899
Email: Deborah.Kornes@ACO.com

Terms: Net 30 Days

ACO DRAIN IS ONLY AVAILABLE THROUGH OUR COMPREHENSIVE DISTRIBUTOR NETWORK

Qty	UM	Item#	Brand	System	Description	Price	Ext-Price
12	EA		Drain	K300	K300 Sloped trench drain channel w/ galvanized edge rail - 39.37" (1m) *** EXACT CHANNEL NUMBERS TO BE DETERMINED ***	\$200.85	\$2,410.20
24	EA	10458	Drain	K300	QuickLok locking bar - 12 inch system (2 needed per channel)	\$16.25	\$390.00
24	EA	10431	Drain	K300	Type 861Q ductile iron slotted grate - 19.69" (0.5m) each (2 needed per channel)	\$160.55	\$3,853.20
4	EA	96826	Drain	K300	K3 Universal closing/inlet/outlet end cap	\$48.10	\$192.40
14	EA	97479	Drain	K300	Installation device - 12 inch system	\$18.20	\$254.80
1	EA	01318	Drain	K300	QuickLok/DrainLok grate removal tool	\$15.60	\$15.60

FOB CASA GRANDE, AZ.

FREIGHT ESTIMATE IS VALID FOR 15 DAYS.

EXACT QUANTITIES TO BE DETERMINED AT TIME OF ORDER/DRAWING.

** FREIGHT QUOTE ESTIMATE IS PROVIDED AS A COURTESY AND MAY VARY FROM FINAL COST **

* Shipment will be scheduled upon receipt of PO or approved shop drawing, whichever occurs

* The customer placing the order is responsible for correct material quantities.

* Pricing valid for 30 DAYS from date of quotation.

Region Office:

ACO, Inc.

Casa Grande, AZ 85122

Tel: (520) 421-9988 Fax: (520) 421-9899

*Reference Terms and Conditions
located on page 2*

Quote Subtotal:	\$7,116.20
Other:	\$0.00
Fab Subtotal:	\$0.00
Total:	\$7,116.20

* FOB: Origin unless otherwise stated on quotation.

ESTIMATED FREIGHT COST:

\$250.00

* Freight rates are current estimates and include carrier assessed fuel surcharges as of quotation date. The customer is responsible for actual freight rate billed at time of shipment. ACO, Inc. is not liable for any difference between estimated freight cost

Ref#: Q 19021902-09-DGK

Visit our website at www.acousa.com

Terms and Conditions

Page 2 of 2

PAYMENT: All pricing is in U.S. Dollars.

TERMS: Net 30 days from date of invoice. A service charge of 1.5% per month will be charged on all invoices unpaid 30 days after invoice date (equal to 18% annually).

FREIGHT: FOB "Origin" unless otherwise stated in the quotation.

MISSING MATERIAL: Missing material must be reported to ACO, Inc. Customer Service Department within 48 hours of receipt of shipment.

DAMAGED MATERIAL: Damaged material must be noted on the bill of lading at final destination point. The receiver must file a freight claim with the carrier. ACO, Inc. is not responsible for material damaged in transit.

TAXES: If required, all State and Federal taxes are additional.

RETURNS: Returned material is subject to a 25% restocking charge. Prior return authorization (RGA) must be obtained from ACO, Inc. before any material is shipped. Returned material is subject to the following conditions: a) All returned material must

CHANGES: ACO, Inc. reserves the right to change prices, design, and materials of any products listed at any time.

PALLET CHARGES: All orders may be subject to a pallet charge of \$10.00 per pallet.



QUOTE

CSG A CONSTRUCTION SUPPLY GROUP COMPANY
BORDER CONSTRUCTION SPECIALTIE
3143 N FREEWAY INDUSTRIAL LOOP
TUCSON, AZ 85705-5002

Phone: (520) 623-4100
Toll Free: (877) 426-7337
Fax: (520) 623-9513

UPC VENDOR	QUOTE DATE	ORDER NO.
000000	02/21/19	13095520-00
TAKEN BY	P.O.NO.	PAGE #
jkaf	TRES RI05	1

CUST #: 6853886

SHIP TO: PRE BID ACCOUNT
TUCSON, AZ 85705

CORRESPONDENCE TO: BORDER CONSTRUCTION SPECIALTIE
3143 N FREEWAY INDUSTRIAL LOOP
TUCSON, AZ 85705-5002

BILL TO: PRE BID ACCOUNT

JOB #	JOB NAME		
INSTRUCTIONS		TERMS	
		CASH SALE	
SHIP POINT	SHIP VIA		SHIPPED
Border Main - Tucson, AZ	WC-Phoned		

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	PDXSYSTEM 08" PDX Polyester TRENCH DRAIN SYSTEM QTY (10) - 1 Meter Channels 9.45" Max Depth, RAIL TYPE: FRP RAIL SIZE: FRP" RAIL FINISH: Bare GRATE MODEL: 08.XXXX.XX GRATE TYPE: FRP Slotted Grate GRATE FINISH: Bare INCLUDES: all U-legs, Installation Devices, End Frames, and Outlets	32.81			LF	180.00	5905.80
2	2610 Catch Basin w/ FRP frame and FRP slotted grate	2			each	675.00	1350.00
2	Lines Total	Qty Shipped Total	81			Total Freight In Invoice Total	7255.80 800.00 8055.80

Last Page This quotation is valid for 30 days. All shipments are based on F.O.B, unless otherwise noted.

CSG carries a complete line of construction specialties. Please see our catalog or call us for more information. You may also visit us at
WWW.CONSTRUCTIONSUPPLYGROUP.COM.

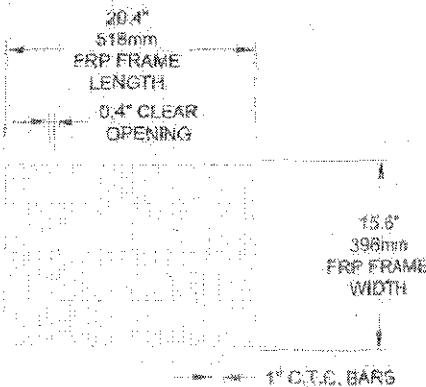
2610-FRP CATCH BASIN

INCLUDES:

- 2600 - TOP SECTION
- 2602 - BOTTOM SECTION
- 2603-FRP - FRP FRAME
- 2604-FRP - FRP GRATE

OPTIONAL:

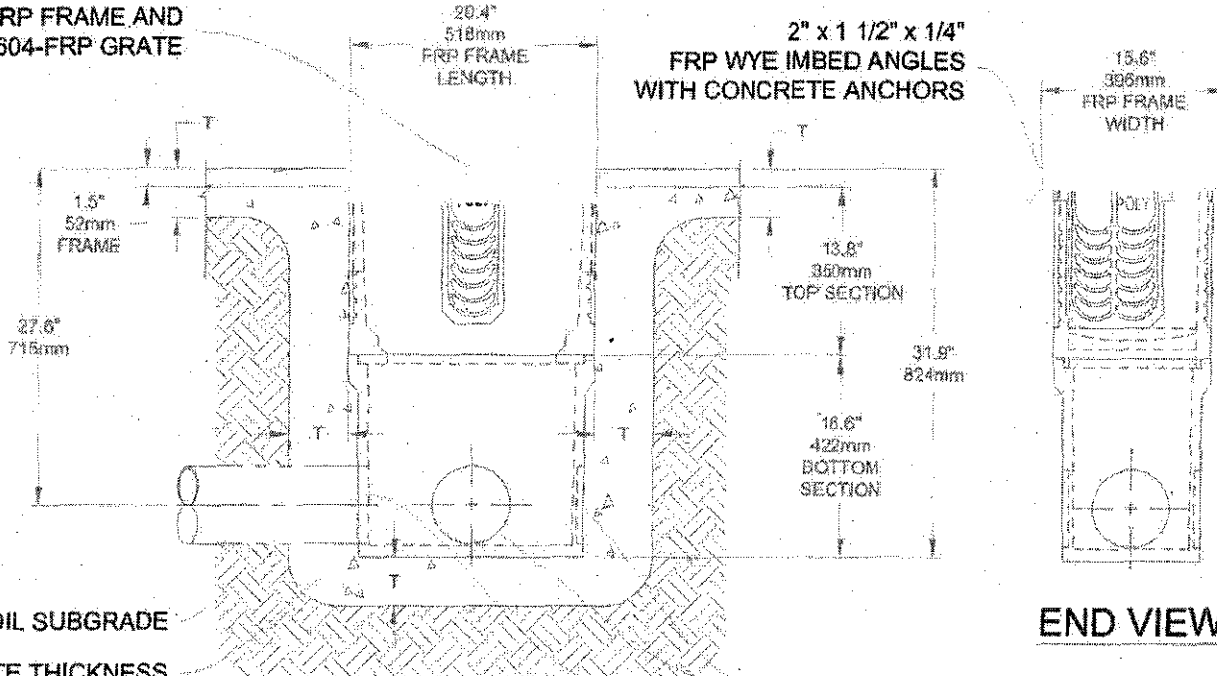
- 2605 - GALVANIZED TRASH BUCKET
- 2608 - STAINLESS TRASH BUCKET



PLAN VIEW

2603-FRP FRAME AND
2604-FRP GRATE

2" x 1 1/2" x 1/4"
FRP WYE IMBED ANGLES
WITH CONCRETE ANCHORS



END VIEW

ELEVATION VIEW

CONCRETE THICKNESS
AND REINFORCEMENT PER
STRUCTURAL ENGINEER'S
SPECIFICATION FOR
THE APPLICATION

6" [150mm] PIPE OUTLET
PREFORMED CUTOUTS
(4 PER SECTION)

T = FLOOR SLAB THICKNESS,
OR 4" MIN. [100mm],
OR SPECIFICATION
(WHICHEVER IS GREATER)

NOTE: YOU ARE NOT LIMITED TO THE OUTLETS SHOWN. OUTLETS AS LARGE AS 12" [300mm] MAY ALSO BE CUT OUT ON ANY OF THE SIDES OF THE 610 CATCH BASIN.



ABT[®] LINC
P.O. BOX 837, 259 MURDOCK ROAD
TROUTMAN, NC 28166
(704) 528-9806

SPECIFICATION DRAWING ©2009 ABT, Inc.
LARGE CATCH BASIN WITH FRP FRAME & GRATE
2610-FRP (2600, 2602, 2603-FRP, 2604-FRP)

FILE: **S-2610-FRP-00**

PART: **2610, 2605, 2608**

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DISCLAIMER : The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT, and EXCEPT AS EXPRESSLY PROVIDED IN ABT'S STANDARD WARRANTIES, ABT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT's standard warranties are available upon request.



Sales Engineers / Process Equipment

JAMES, COOKE & HOBSON, INC.

3501 E Broadway Rd, Phoenix, AZ 85040

Phone: 602-586-1439

Fax: 602-276-5402

E-mail: egm@jchinc.com

JAN. 31, 2019

To: The Ashton Co.

Quotation #: 013119-2EGM

Job Name: TRES RIOS

Attn: Ella Yakorevsky

Location: TUCSON, AZ

Ph:

Quotation by: ED MARTIN

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Interest shall accrue at 1.5% per month on past due amounts per month. Any taxes are additional. Items included are only listed below. Please review carefully

QTY	DESCRIPTION	TOTAL
1	FLYGT MODEL NZ3102 HORIZONTALLY MOUNTED SUBMERSIBLE DRY PIT PUMP WITH 5HP, 460V-3PH MOTOR, 50 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME (HARD IRON) IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 465, NZ PUMP STAND, SERVICE CART, NZ SERVICE CART RAIL, ANCHOR BOLTS AND DRAINAGE VALVE	

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....\$14,489.00

NOTES:

- The above price is firm for 30 days. After such time it may be subject to review. Shipment has been estimated at Approx. 8 - 10 weeks after receipt of purchase order and/or approved submittal drawings.
- Price includes: Freight to the job site off loaded by-others. Submittal drawings and start-up supervision.
- Prices do not include: Sales tax
- Thank you for this opportunity to be of service. If you have any questions regarding this quotation or any other matter, Please do not hesitate to call.

Bid Proposal for Tres Rios Nutrient Recovery 2/21/19

ASHTON CO INC--AZ PIPELINE DIV

2727 S COUNTRY CLUB RD

TUCSON, AZ 85713

Job

Tres Rios Nutrient Recovery 2/21/19

Bid Date: 02/21/2019

Bid #: 840725

Sales Representative

Kip Dobb

(M) 520-444-7135

(T) 520-745-0561

(F) 520-745-4566

Kip.Dobb@coreandmain.com

Core & Main

4571 S Alvernon Way

Tucson, AZ 85714

(T) 520-745-0561



Bid Proposal for Tres Rios Nutrient Recovery 2/21/19

ASHTON CO INC--AZ PIPELINE DIV

Bid Date: 02/21/2019

Core & Main 840725

Core & Main

4571 S Alvernon Way

Tucson, AZ 85714

Phone: 520-745-0561

Fax: 520-745-4566

Seq# Qty	Description	Units	Price	Ext Price
20	HDPE STORM DRAIN			
30 140	12 N12 AASHTO STIB SOLID 20' DUAL WALL 12850020IB	FT	7.35	1,029.00
40 40	10 N12 AASHTO WTIB SOLID 20' DUAL WALL 10650020IB	FT	6.12	244.80
50 20	8 N12 AASHTO WTIB SOLID 20' DUAL WALL 08650020IB	FT	4.99	99.80
60 3	30" X 7' NYLOPLAST BASIN	EA	2,326.25	6,978.75
70 1	15"X 7' NYLOPLAST BASIN	EA	942.50	942.50
	SUBTOTAL			9,294.85
80	WATER LINE, UG, DI CL 350			
90 108	6 TJ CL50 PR350 DI PIPE	FT	16.44	1,775.52
100 5	6 TJ FIELD LOK 350 GASKET SBR	EA	83.90	419.50
110 54	4 TJ PR350 DI PIPE	FT	24.37	1,315.98
120 2	4 TJ FIELD LOK 350 GASKET SBR	EA	59.10	118.20
130 200	20"X340' POLYWRAP BLK F/6"-8" BS (W/20'PERF)	FT	0.36	72.00
140 15	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	4.30	64.50
50	6" GATE VALVE			
160 3	6 F6100 MJ RW GV OL ON L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	489.38	1,468.14
170 3	VALVE BOX TUCSON WATER (I)	EA	55.39	166.17
200 20	6 C900 DR18 PVC PIPE (G) 20' PC235	FT	5.80	116.00
210 3	6"0" MAG EXT STEM ONLY	EA	124.77	374.31
220 3	CONTENGI TUCSON DIRT RING	EA	40.67	122.01
230 6	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	19.46	116.76
240 6	6 MJ REGULAR ACC SET L/GLAND	EA	14.96	89.76
250				
260 1	6 MJXFLG TEE C153 IMP	EA	110.05	110.05
270 1	6 F6106 MJXFLG RW GV OL L/ACC CLOW GATE VALVE EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	478.74	478.74
280 1	VALVE BOX TUCSON WATER (I)	EA	55.39	55.39
310 18	6 TJ CL50 PR350 DI PIPE	FT	16.44	295.92
320 40	20"X340' POLYWRAP BLK F/6"-8" BS (W/20'PERF)	FT	0.36	14.40
330 2	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	4.30	8.60
340 1	5-1/4VO HYD MED 5"8 6MJ LA OL 1-1/2 PENT CLOW FIRE HYDRANT, EPOXY COATED W/STAINLESS STEEL BOLTS & NUTS	EA	1,573.30	1,573.30
350 1	6 316SS FLG BOLT & NUT SET WITH BLUE XYLAN NUT	EA	36.61	36.61
360 1	6X1/8 SBR FLANGE TYTE FF GSKT NSF61 APPROVED	EA	16.16	16.16
370 6	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	19.46	116.76
380 4	6 MJ REGULAR ACC SET	EA	23.27	93.08
390				
400 1	BR2B0684CC150 SAD 6X1-1/2CC 6.84-7.45 DBL STRAP BRNZ SAD	EA	117.19	117.19
410				
420 1	6X2 MJ TAPT CAP C153 IMP	EA	43.37	43.37
430 1	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	19.46	19.46
440 1	6 MJ REGULAR ACC SET	EA	23.27	23.27



Bid Proposal for Tres Rios Nutrient Recovery 2/21/19

Bid #: 840725

Seq#	Qty	Description	Units	Price	Ext Price
450					
460	1	6 MJXFLG TEE C153 IMP	EA	110.05	110.05
470	3	6 ONE-LOK DI RESTR SLDE6 (I) SIGMA (DIP) GLAND ONLY	EA	19.46	58.38
480	3	6 MI REGULAR ACC SET L/GLAND	EA	14.96	44.88
SUBTOTAL					9,434.46
500		POTABLE WATER, UG			
510		COPPER			
520	60	1-1/2 SOFT K COPPER TUBE 60'	FT	6.89	413.40
530	200	2"X200' BLUE POLYWRAP TUBING	EA	17.73	3,546.00
550	1	B25008N 1-1/2 BALL CORP CCXCTS CCXCTS COMP NO LEAD	EA	137.03	137.03
560	1	B24276N 1-1/2 BMV COMP CTSXMF W/LW & CHK NO LEAD	EA	234.39	234.39
SUBTOTAL					4,330.82
570		SERVICE WATER, UG			
580		COPPER			
590	120	3 HARD K COPPER TUBE 20'	FT	23.52	2,822.40
600	120	20"X340' POLYWRAP BLK F/6"-8" BS (W/20'PERF)	FT	0.36	43.20
610	2	T-10-2 UPC 10 MIL TAPE 2"X100'	EA	4.30	8.60
620	1	3 WROT COPPER TEE CXCXC	EA	63.82	63.82
630	2	3 WROT COPPER 90 BEND CXC	EA	35.40	70.80
640	1	1056-33 3 CI/PVCXCI/PVC CPLG	EA	3.90	3.90
SUBTOTAL					3,012.72
650		BID HEADER			
660		BID HEADER			
670	40	6 PVC SDR35 SWR PIPE (G) 20'	FT	2.67	106.80
680	100	4 PVC SDR35 SWR PIPE (G) 20'	FT	1.22	122.00
690	2	6 PVC SDR35 SWR 45 GXG	EA	19.51	39.02
700	3	4 PVC SDR35 SWR 45 GXG	EA	9.61	28.83
720	2	6X6 PVC SDR35 SWR WYE GXG	EA	38.04	76.08
730	2	6 PVC SDR35 SWR 45 GXSP	EA	17.28	34.56
740	2	6 PVC SDR35 SWR CAP HUB SW SOLVENT WELD (GLUE)	EA	7.13	14.26
750	2	4X4 PVC SDR35 SWR WYE GXG	EA	16.57	33.14
760	2	4 PVC SDR35 SWR 45 GXSP	EA	8.64	17.28
770	2	4 PVC SDR35 SWR CAP HUB SW SOLVENT WELD (GLUE)	EA	1.95	3.90
790	1	6X4 PVC SDR35 SWR WYE GXG	EA	33.61	33.61
800	1	4 PVC SDR35 SWR 45 GXSP	EA	8.64	8.64
810	1	4 PVC SDR35 SWR CAP HUB SW SOLVENT WELD (GLUE)	EA	1.95	1.95
830	1	4 PVC SDR35 SWR SPIGOT PLUG	EA	4.67	4.67
850	1	4X4 PVC SDR35 SWR WYE GXG	EA	16.57	16.57
860	1	4 PVC SDR35 SWR 45 GXSP	EA	8.64	8.64
870	1	4 SDR35 CLEANOUT ADPT HXF L/PL	EA	4.43	4.43
880	1	4 PVC SWR CLEANOUT PLUG MIPT	EA	2.70	2.70



Bid Proposal for Tres Rios Nutrient Recovery 2/21/19

Bid #: 840725

Seq#	Qty	Description	Units	Price	Ext Price
				SUBTOTAL	557.08
				Sub Total	26,629.93
				Tax	0.00
				Total	26,629.93

Branch Terms:

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES UPON THIRTY (30) CALENDAR DAYS' NOTICE TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: <https://coreandmain.com/TandC/>



Rec'd

C&B PIPING, INC.
JEFF CASSANO | WEST REGION SALES
(602) 828-6742
jcassano@cbpiping.com

PROJECT: TRES RIOS WATER RECLAMATION FACILITY NUTRIENT RECOVERY PROJECT (90-DESIGN)

TUCSON AZ

BID: 2/21/2019

REVISION: R-2

ENDUMS: A-0

ESTIMATOR: JEFF CASSANO

We are pleased to offer for your consideration, our proposal covering ductile iron pipe and fittings for the above referenced project.

The bill of material listed in our proposal is our interpretation of the contract drawings. It is offered as assistance in preparing your total estimate but is not guaranteed as to the final material that would actually be required. We could furnish you with piping layout drawings detailing all the the above with a bill of material which would be for approval prior to ordering and manufacturing.

C&B Piping, Inc. is a full service supplier of treatment plant ductile iron piping systems. We are a pipe fabricator, linings/coatings applicator, and drafting layout service provider.

All prices are FOB factory with full truckload freight allowed to jobsite. We do not include sales or use taxes.

We offer payment terms of 2%-10, NET 30. All past due invoices will be charged 1-1/2% interest per month.

Push-On and Restrained Joint pipe prices are firm for 90 days from bid date. Fabricated pipe & all fitting prices are firm for 6 months from bid date. All prices are subject to increase if not ordered within the above mentioned time periods.

Note: Pricing for some of the products included in this quote may be impacted by USTR Section 301 Proposed China tariff. In the event that the tariff is implemented, we will be forced to pass it on to the market. The actual price of these effected items may increase up to the rate of the tariff that is imposed. The categories are products potentially affected on our quote include, but may not be limited to, ductile iron fittings, restraints, threaded flanges, glands & accessory kits.

Note the following:

1) **Pipe:**

- X) We have quoted pipe class as shown.
- X) Flanged Pipe is quoted as Class 53, with 125# flanges

2) **Fittings:**

- X) Flange: Full Body Ductile Iron 125# (ANSI/AWWA C110/A21.10)
- X) Mechanical Joint: Compact MJ per ANSI/AWWA C153/A21.53

3) **Lining:**

- X) Standard Thickness Cement (ANSI/AWWA C104/A21.4)

4) **Coating:**

- X) Buried: Standard Asphalt Tar 1 mil per AWWA C151
- X) Exposed: Shop Coat of Sherwin Williams Macropoxy 5500 @ 4-6 mils dft

5) **Restrained Joints:**

- X) PIPE: Proprietary Restrained Joint
- X) Fittings: MJ w/ Wedge Restraints

6) **Gaskets:**

- X) Standard SBR

7) **Hardware (where listed)**

- X) MJ T-Bolts for buried MJ joints are quoted as Std Low Alloy Steel
- X) Flange Bolt/Nuts/Gaskets:

8) **Origin:**

- X) Some materials quoted may be globally sourced. If domestic only materials are required, prices may be adjusted accordingly.
- X) We have quoted pipe, fittings and joint restraint MADE IN THE USA

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
SCOPE OF PROJECT					
YARD PIPING					
FIRE PROTECTION WATER					
BURIED			SHEET(S) C-007		
"FPW" CONNECT TO EXISTING WATER STUB					
1	EA	06" MJ FIRE HYDRANT	TUCSON SPEC	\$1,901.83	\$1,901.83
1	EA	06" MJ NRS RW GATE VALVE C509, 2N OPERATOR	SPEC 40_27_02-2.05.A-V132	\$785.79	\$785.79
1	EA	5-1/4" CI VALVE BOX AND COVER, SLIP TYIP DROP LID	MARKED WATER	\$154.39	\$154.39
54	FT	06" R.J. DIP CL350 18' NOM CL/TC		\$17.64	\$952.67
3	EA	06" MEGALUG 1100 SET (DI) USA		\$36.63	\$109.89
FIRE PROTECTION WATER					
BURIED			SHEET(S) C-007		
"FPW" CONNECT TO EXISTING WATER STUB					
1	EA	04" MJ NRS RW GATE VALVE C509, 2N OPERATOR	SPEC 40_27_02-2.05.A-V132	\$615.79	\$615.79
1	EA	5-1/4" CI VALVE BOX AND COVER, SLIP TYIP DROP LID	MARKED WATER	\$154.39	\$154.39
36	FT	04" R.J. DIP CL350 18' NOM CL/TC		\$20.95	\$754.11
1	EA	04" MJ 90 C153 CL/TC USA		\$64.84	\$64.84
3	EA	04" MEGALUG 1100 SET (DI) USA		\$29.40	\$88.20
1	EA	04" THRD FIRE DEPARTMENT CONNECTION, SIEMENSE	SPEC N/A	\$442.11	\$442.11
1	EA	04" THRD ULFM CHECK VALVE	SPEC N/A	\$161.84	\$161.84
1	EA	04" COMPANION FLG (1/2") /PC USA		\$48.00	\$48.00
1	EA	04"x 6' 0" DF x PE CL/PC		\$216.74	\$216.74
1	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) 8-5/8x3		\$5.54	\$5.54
1	EA	04" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$3.87	\$3.87
POTABLE WATER					
BURIED			SHEET(S) C-007		
"PW" CONNECT TO EXISTING WATER STUB					

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
2	EA	06" MJ NRS RW GATE VALVE C509, 2N OPERATOR	SPEC 40_27_02-205.A-V132	\$785.79	\$1,571.58
2	EA	5-1/4" CI VALVE BOX AND COVER, SLIP TYIP DROP LID	MARKED WATER	\$154.39	\$308.77
54	FT	06" R.J. DIP CL350 18' NOM CL/TC		\$17.64	\$952.67
1	EA	06" MJ TEE C153 CL/TC USA		\$147.73	\$147.73
1	EA	06" MJ CAP C153 TL/TC USA		\$40.78	\$40.78
1	EA	06" MJ SLV LP C153 TL/TC USA	NOTE: NOT SHOWN ON PLANS	\$64.17	\$64.17
10	EA	06" MEGALUG 1100 SET (DI) USA		\$36.63	\$366.32
1	EA	06" NYLON DBL STRAP SADDLE-6.90 X 1 1/2 IP		\$90.90	\$90.90
06IN-DR-PVC		DRAIN LINE	SHEET(S) C-007		
BURIED		"DR" FROM EXISTING TO CATCH BASIN			
40	EA	06" SDR35 PVC PIPE		\$2.41	\$96.59
4	EA	06" SDR 35 PVC REPAIR COUPLING		\$23.06	\$92.22
2	EA	06" SDR35 WYE		\$37.00	\$73.99
2	EA	06" SDR35 45 BEND		\$16.82	\$33.63
2	EA	06" NO-HUB COUPLING		\$15.52	\$31.05
X	CNT-2	06" CATCH BASIN/TRENCH DRAIN	BY OTHER		
04IN-DR-PVC		DRAIN LINE	SHEET(S) C-007		
BURIED		"DR" TIE-IN TO EXISTING			
20	EA	06" SDR35 PVC PIPE		\$2.41	\$48.30
2	EA	06" SDR 35 PVC REPAIR COUPLING		\$23.06	\$46.11
1	EA	06 X 04" SDR35 WYE		\$37.00	\$37.00
60	EA	04" SDR35 PVC PIPE		\$1.11	\$66.87
1	EA	04" SDR35 PVC 45 BEND		\$8.41	\$8.41
2	EA	04" SDR35 PVC WYE		\$16.11	\$32.22
ASSY		CLEANOUT ASSY			
2	EA	04" SDR35 PVC 45 BEND		\$8.41	\$16.82
1	EA	04" HAND-TITE PLUG		\$8.32	\$8.32
1	EA	CI FRAME AND COVER	MARK'D SEWER	\$102.74	\$102.74
NOTE		CONNECTION TO PLUMBING	BY OTHER		
BURIED		"DR" TIE-IN TO EXISTING			
60	EA	04" SDR35 PVC PIPE		\$1.11	\$66.87
1	EA	04" SDR35 PVC 45 BEND		\$8.41	\$8.41
03IN-SW-CU		SERVICE WATER			
BURIED		"SW" FROM EXIST RECLAIMED TO MECHANICAL			
X	CNT-X	03" COPPER PIPE/FTGS AND APPURTENANCES	BY OTHER		
1.50IN-SW-CU		SERVICE WATER			
BURIED		"SW" FROM PW TO MECHANICAL			
X	CNT-X	1.50" COPPER PIPE/FTGS AND APPURTENANCES	BY OTHER		
PIPE ACCY					
2	EA	06" POLYWRAP FOR PIPE 8 MIL L.D. 340' ROLL		\$128.42	\$256.84
6	EA	02" X 100' ROLL TAPE FOR POLYWRAP		\$6.32	\$37.89
2	EA	06" WIDE DETECTABLE TAPE	COLOR GREEN "SEWER" BLUE "WATER"	\$72.00	\$144.00

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
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SUBTOTAL ITEMS LISTED ABOVE

YARD PIPING

\$11,211.20

MECHANICAL

CO2 RELEASE TANKS AND CRYSTALLIZATION REACTOR TANK

EXPOSED		"DSS" CO2R TANK OUTLET TO PUMP(S)	SHEET(S) M-003 AND 6		
X	CNT-2	06" X 9' 0" PVDF LINED PIPE	BY OTHER		
2	EA	06" FLG PLUG VALVE C507, W/EMO 480V-OPEN/CLOSE	SPEC 40_27_02-205.D-V405	\$13,659.09	\$27,318.18
2	EA	06" FLG PLUG VALVE C507, W/GEAR'D HW	SPEC 40_27_02-205.D-V405	\$1,665.63	\$3,331.27
2	EA	06" FLG TEE CL/PC USA		\$356.27	\$712.55
2	EA	06" FLG BASE 90 CL/PC USA		\$342.91	\$685.81
2	EA	06" FLG TEE CL/PC USA		\$356.27	\$712.55
2	EA	06" BLIND FLG /PC USA 1- (2"NT)	ECCENTRIC POSITION	\$168.08	\$336.17
2	EA	06"x 3' 6" DF x DF CL/PC		\$299.62	\$599.24
2	EA	06"x 3' 0" DF x DF CL/PC		\$285.31	\$570.61
2	EA	06"x 2' 0" DF x DF CL/PC 1- (2"HOLE)		\$332.46	\$664.93
2	EA	06" NYLON DBL STRAP SADDLE-6.90 X 2 IP		\$90.90	\$181.80
8	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$77.23
14	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$126.15
22	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$128.14

X CNT-X 06" PIPE SUPPORTS

BY OTHER

ASSY CNT-4 FLUSHING/DRAIN CONNECTION TAPT ASSY

BY OTHER

2	EA	10x06" FLG CON RED CL/PC USA		\$386.35	\$772.69
2	EA	10" FLG HVY HEX BOLT SET (A307B-ZP) 12-7/8x4		\$22.02	\$44.04
2	EA	10" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$12.28	\$24.56

EXPOSED "DSS" CO2R TANK OUTLET INTERCONNECT

SHEET(S) M-003 AND 6

1	EA	06" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$1,928.17	\$1,928.17
1	EA	06"x 8' 0" DF x DF CL/PC 1- (2"HOLE)		\$504.25	\$504.25
1	EA	06"x 10' 0" DF x DF CL/PC 1- (2"HOLE)		\$561.52	\$561.52
2	EA	06" NYLON DBL STRAP SADDLE-6.90 X 2 IP		\$90.90	\$181.80
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$19.31
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$18.02
4	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$23.30

X CNT-X 06" PIPE SUPPORTS

BY OTHER

ASSY CNT-2 FLUSHING/DRAIN CONNECTION TAPT ASSY

BY OTHER

EXPOSED "DSS" CO2R TANK-1 OVERFLOW TO CR-TANK

SHEET(S) M-003 AND 6

1	EA	08" FLG PLUG VALVE C507, W/GEAR'D HW EXT 6' 0"	SPEC 40_27_02-205.D-V405	\$3,691.64	\$3,691.64
1	EA	08"x 4' 0" DF x DF CL/PC		\$463.33	\$463.33
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$19.31
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$18.02
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$8.74	\$34.98

EXPOSED "DSS" CO2R TANK-2 OVERFLOW TO CR-TANK

SHEET(S) M-003 AND 6

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
1	EA	08" FLG PLUG VALVE C507, W/GEAR'D HW EXT 6' 0"	SPEC 40_27_02-205.D-V405	\$3,691.64	\$3,691.64
1	EA	08"x 12' 6" DF x DF CL/PC		\$799.75	\$799.75
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$19.31
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$18.02
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$8.74	\$34.98
EXPOSED		"DSS" PUMP DISCHARGE TO CR-TANK	SHEET(S) M-003 AND 6		
2	EA	10x04" FLG CON RED CL/PC USA		\$401.05	\$802.11
2	EA	10" FLG HVY HEX BOLT SET (A307B-ZP) 12-7/8x4		\$22.02	\$44.04
2	EA	10" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$12.28	\$24.56
X	CNT-2	04" WFR PRESSURE SEAL WITH INSTRUMENT	BY OTHER		
X	CNT-2	04" FLG FLOW METER, MAG TYPE	BY OTHER		
2	EA	04" FLG PLUG VALVE C507, W/LEVER OPERATOR	SPEC 40_27_02-205.D-V405	\$746.05	\$1,492.11
2	EA	04" FLG LR BASE 90 CL/PC USA		\$247.99	\$495.98
2	EA	04" VIC ST 31 CPLG (M, STD B/N) /PC		\$70.76	\$141.52
2	EA	04"x 2' 0" DF x DF CL/PC		\$199.79	\$399.58
2	EA	04"x 1' 8" DF x DF CL/PC		\$199.79	\$399.58
2	EA	04"x 1' 0" DF x GRV CL/PC		\$110.21	\$220.42
2	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR I-MTR	\$6.93	\$13.86
2	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR I-PS	\$6.93	\$13.86
2	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$5.94	\$11.88
4	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) 8-5/8x3		\$5.54	\$22.18
18	EA	04" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$3.87	\$69.73
CNT-X		04" PIPE SUPPORTS	BY OTHER		
1	EA	06" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$1,928.17	\$1,928.17
1	EA	06" FLG 90 CL/PC USA		\$196.52	\$196.52
1	EA	06" FLG WYE CL/PC USA		\$489.28	\$489.28
1	EA	06" VIC ST 341 FLG (M, NO B/N) /PC		\$162.45	\$162.45
1	EA	06" VIC ST 31 CPLG (M, STD B/N) /PC		\$105.01	\$105.01
1	EA	06x04" VIC TEE CL/PC USA		\$212.87	\$212.87
1	EA	06" VIC CAP CL/PC USA 1- (2"NT)	ECCENTRIC POSITION	\$179.87	\$179.87
1	EA	06"x 2' 0" DF x DF CL/PC		\$256.67	\$256.67
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$19.31
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$18.02
4	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$23.30
ASSY	CNT-1	FLUSHING/DRAIN CONNECTION TAPT ASSY	BY OTHER		
1	EA	06" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$1,928.17	\$1,928.17
1	EA	06" FLG 45 CL/PC USA		\$173.79	\$173.79
1	EA	06" VIC ST 341 FLG (M, NO B/N) /PC		\$162.45	\$162.45
1	EA	06" VIC ST 31 CPLG (M, STD B/N) /PC		\$105.01	\$105.01
1	EA	06x04" VIC TEE CL/PC USA		\$212.87	\$212.87
1	EA	06" VIC CAP CL/PC USA 1- (2"NT)	ECCENTRIC POSITION	\$179.87	\$179.87
2	EA	06"x 15' 0" DF x DF CL/PC		\$628.88	\$1,257.77
1	EA	06"x 1' 0" DF x DF CL/PC		\$228.04	\$228.04
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$19.31

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
4	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$36.04
6	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$34.95
CNT-X 06" PIPE SUPPORTS			BY OTHER		
ASSY	CNT-1	FLUSHING/DRAIN CONNECTION TAPT ASSY	BY OTHER		
2	EA	06" FLG 90 CL/PC USA		\$196.52	\$393.03
2	EA	06" VIC ST 31 CPLG (M, STD B/N) /PC		\$105.01	\$210.02
1	EA	06"x 1' 6" DF x GRV CL/PC		\$611.92	\$611.92
1	EA	06"x 1' 6" GRV x GRV CL/PC		\$536.42	\$536.42
1	EA	06"x 5' 0" DF x GRV CL/PC		\$254.02	\$254.02
1	EA	06"x 8' 0" DF x DF CL/PC		\$428.46	\$428.46
5	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$45.05
5	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$29.12
EXPOSED		"DSS" CR-TANK OUTLET TO PUMP	SHEET(S) M-003 AND 6		
2	EA	08" FLG PLUG VALVE C507, W/GEAR'D HW	SPEC 40_27_02-205.D-V405	\$2,657.59	\$5,315.17
1	EA	08" FLG 45 CL/PC USA		\$288.09	\$288.09
1	EA	08" FLG TEE CL/PC USA		\$691.82	\$691.82
1	EA	08" BLIND FLG /PC USA 1- (2"NT)	ECCENTRIC POSITION	\$208.19	\$208.19
3	EA	08" VIC ST 31 CPLG (M, STD B/N) /PC		\$153.93	\$461.78
1	EA	08" VIC TEE CL/PC USA		\$328.83	\$328.83
1	EA	06" VIC CAP CL/PC USA 1- (2"NT)	ECCENTRIC POSITION	\$179.87	\$179.87
1	EA	08"x 0' 6" DF x GRV CL/PC		\$208.51	\$208.51
1	EA	08"x 1' 6" DF x GRV CL/PC		\$228.29	\$228.29
1	EA	08"x 3' 0" DF x DF CL/PC		\$423.75	\$423.75
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$38.62
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$36.04
8	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$8.74	\$69.95
X	CNT-X	08" PIPE SUPPORTS	BY OTHER		
ASSY	CNT-2	FLUSHING/DRAIN CONNECTION TAPT ASSY	BY OTHER		
1	EA	12x08" FLG CON RED CL/PC USA		\$625.64	\$625.64
1	EA	12" FLG HVY HEX BOLT SET (A307B-ZP) 12-7/8x4		\$22.02	\$22.02
1	EA	12" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$17.33	\$17.33
EXPOSED		"DSS" PUMP DISCHARGE TO DS SCREEN FACILITY	SHEET(S) M-003, 6 - 7		
1	EA	12x06" FLG CON RED CL/PC USA		\$534.74	\$534.74
1	EA	12" FLG HVY HEX BOLT SET (A307B-ZP) 12-7/8x4		\$22.02	\$22.02
1	EA	12" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$17.33	\$17.33
X	CNT-1	06" WFR PRESSURE SEAL WITH INSTRUMENT	BY OTHER		
X	CNT-1	06" FLG FLOW METER, MAG TYPE	BY OTHER		
1	EA	06" FLG PLUG VALVE C507, W/GEAR'D HW	SPEC 40_27_02-205.D-V405	\$1,665.63	\$1,665.63
1	EA	06" FLG BASE TEE CL/PC USA		\$473.24	\$473.24
1	EA	06" VIC ST 31 CPLG (M, STD B/N) /PC		\$105.01	\$105.01
1	EA	06" VIC CAP CL/PC USA 1- (2"NT)	ECCENTRIC POSITION	\$179.87	\$179.87
1	EA	06"x 1' 6" DF x DF CL/PC		\$242.36	\$242.36

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
1	EA	06"x 2' 6" DF x DF CL/PC		\$270.99	\$270.99
1	EA	06"x 2' 6" DF x GRV CL/PC		\$182.44	\$182.44
2	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5	FOR I-MTR	\$11.26	\$22.53
1	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5	FOR I-PS	\$11.26	\$11.26
1	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR V-PLV	\$9.65	\$9.65
3	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$27.03
10	EA	06" SBR RUBBER GASKET 1/8" THICK FULLFACE	AB613	\$5.82	\$58.25
X	CNT-X	06" PIPE SUPPORTS	BY OTHER		
1	EA	08" FLG CHECK VALVE C508, SWING TYPE L&W	SPEC 40_27_02-205.F-V608	\$2,028.24	\$2,028.24
2	EA	08" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$2,917.65	\$5,835.29
4	EA	08" FLG 45 CL/PC USA		\$288.09	\$1,152.38
1	EA	08" FLG 90 CL/PC USA		\$358.27	\$358.27
2	EA	08" VIC ST 31 CPLG (M, STD B/N) /PC		\$153.93	\$307.85
1	EA	08x06" FLG TEE CL/PC USA		\$695.16	\$695.16
1	EA	06" VIC CAP CL/PC USA 1- (2"NT)	ECCENTRIC POSITION	\$179.87	\$179.87
1	EA	08"x 2' 0" DF x GRV CL/PC		\$248.08	\$248.08
1	EA	08"x 16' 0" DF x DF CL/PC		\$938.27	\$938.27
1	EA	08"x 2' 0" DF x DF CL/PC		\$384.17	\$384.17
1	EA	08"x 2' 0" DF x DF CL/PC		\$384.17	\$384.17
2	EA	08"x 10' 0" DF x DF CL/PC		\$700.80	\$1,401.60
1	EA	08"x 1' 0" DF x DF CL/PC		\$344.59	\$344.59
1	EA	08"x 17' 6" DF x DF CL/PC		\$997.64	\$997.64
1	EA	08"x 6' 0" DF x DF CL/PC 1- (2"HOLE)		\$618.27	\$618.27
1	EA	08" NYLON DBL STRAP SADDLE-9.05 X 2 IP		\$99.56	\$99.56
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$9.65	\$38.62
12	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$108.13
16	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$139.90
X	CNT-X	08" PIPE SUPPORTS	BY OTHER		
ASSY	CNT-1	FLUSHING/DRAIN CONNECTION TAPT ASSY	BY OTHER		
1	EA	08" FLG TEE CL/PC USA		\$691.82	\$691.82
1	EA	08"x 0' 6" DF x DF CL/PC		\$344.59	\$344.59
1	EA	08"x 5' 0" DF x DF CL/PC	NOTE: ASSUME NEXT FLG	\$502.91	\$502.91
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$36.04
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$34.98
EXPOSED		"DSS" INSTALL PLV INTO EXISTING LINE	SHEET(S) M-007		
1	EA	08" FLG PLUG VALVE C507, W/EMO 480V-OPEN/CLOSE	SPEC 40_27_02-205.D-V405	\$14,830.14	\$14,830.14
1	EA	08"x 3' 0" DF x DF CL/PC		\$423.75	\$423.75
1	EA	08"x 2' 0" DF x DF CL/PC		\$384.17	\$384.17
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$9.65	\$19.31
2	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$18.02
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$34.98
1	EA	08" FLG TEE CL/PC USA		\$691.82	\$691.82
1	EA	08"x 6' 0" DF x DF CL/PC		\$542.48	\$542.48
1	EA	08"x 5' 0" DF x DF CL/PC		\$502.91	\$502.91

QUAN	UNIT	DESCRIPTION	COMMENTS	UNIT PRICE	TOTAL PRICE
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$36.04
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$34.98
CNT-X 08" PIPE SUPPORTS			BY OTHER		
EXPOSED "DSS" FROM SCREEN FACILITY TO C02R TANKS			SHEET(S) M-004, 6 - 7		
1	EA	08" FLG PLUG VALVE C507, W/EMO 480V-OPEN/CLOSE	SPEC 40_27_02-205.D-V405	\$14,830.14	\$14,830.14
1	EA	08" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$2,917.65	\$2,917.65
3	EA	08" FLG 90 CL/PC USA		\$358.27	\$1,074.82
3	EA	08" FLG TEE CL/PC USA		\$691.82	\$2,075.46
2	EA	08" VIC ST 31 CPLG (M, STD B/N) /PC		\$153.93	\$307.85
1	EA	08" VIC 90 CL/PC USA		\$268.16	\$268.16
1	EA	08"x 0' 6" DF x DF CL/PC		\$344.59	\$344.59
1	EA	08"x 2' 0" DF x DF CL/PC		\$384.17	\$384.17
1	EA	08"x 16' 0" DF x GRV CL/PC		\$802.19	\$802.19
1	EA	08"x 12' 0" DF x GRV CL/PC		\$643.87	\$643.87
1	EA	08"x 3' 0" DF x DF CL/PC		\$423.75	\$423.75
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$9.65	\$38.62
8	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) 8-3/4x3.5		\$9.01	\$72.08
12	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$104.93
X CNT-X 08" PIPE SUPPORTS			BY OTHER		
2	EA	08" FLG PLUG VALVE C507, W/GEAR'D HW	SPEC 40_27_02-205.D-V405	\$2,657.59	\$5,315.17
2	EA	08x04" FLG CON RED CL/PC USA		\$200.53	\$401.05
4	EA	08" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$9.65	\$38.62
4	EA	08" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$8.74	\$34.98
X CNT-2 04" FLG FLOW METER, MAG TYPE			BY OTHER		
2	EA	04" FLG PLUG VALVE C507, W/EMO 480V-OPEN/CLOSE	SPEC 40_27_02-205.D-V405	\$11,671.05	\$23,342.11
2	EA	04"x 2' 1" DF x DF CL/PC		\$211.58	\$423.16
2	EA	04"x 1' 6" DF x DF CL/PC		\$188.00	\$376.00
4	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR I-MTR	\$6.93	\$27.72
4	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$5.94	\$23.76
2	EA	04" FLG HVY HEX BOLT SET (A307B-ZP) 8-5/8x3		\$5.54	\$11.09
14	EA	04" SBR RUBBER GASKET 1/8" THICK FULLFACE		\$3.87	\$54.23
X CNT-X 04" PIPE SUPPORTS			BY OTHER		
2	EA	06" FLG PLUG VALVE C507, W/GEAR'D CW 10'0"	SPEC 40_27_02-205.D-V405	\$1,928.17	\$3,856.35
2	EA	06x04" FLG CON RED CL/PC USA		\$195.85	\$391.71
2	EA	06" VIC ST 341 FLG (M, NO B/N) /PC		\$162.45	\$324.91
20	EA	06" VIC ST 31 CPLG (M, STD B/N) /PC		\$105.01	\$2,100.21
8	EA	06" VIC 90 CL/PC USA		\$173.37	\$1,386.95
2	EA	06"x 1' 6" DF x GRV CL/PC 1~(2"HOLE)		\$229.60	\$459.20
2	EA	06"x 0' 6" GRV x GRV CL/PC		\$64.00	\$128.00
4	EA	06"x 17' 6" GRV x GRV CL/PC		\$536.42	\$2,145.68
2	EA	06"x 6' 0" GRV x GRV CL/PC		\$207.16	\$414.32
2	EA	06"x 2' 0" GRV x GRV CL/PC		\$92.63	\$185.26
2	EA	06"x 1' 6" GRV x GRV CL/PC		\$78.32	\$156.63
2	EA	06" NYLON DBL STRAP SADDLE-6.90 X 2'IP		\$90.90	\$181.80
4	EA	06" FLG HVY HEX BOLT SET (A307B-ZP) SPECIAL	FOR PLV	\$9.65	\$38.62