

AN ORDINANCE **2010-01-14-0004**

AUTHORIZING A CHANGE ORDER IN THE INCREASED AMOUNT OF \$70,170.24 TO THE \$292,376.70 CONSTRUCTION CONTRACT WITH HERSCHAP BACKHOE & DITCHING, INC. FOR PHASE II OF THE HEMISFAIR GROUNDWATER FORCE MAIN PROJECT FUNDED IN THE FY 2010 BUDGET, LOCATED IN COUNCIL DISTRICT 1.

* * * * *

WHEREAS, Ordinance No. 2009-10-15-0822 awarded a construction contract to **Herschap Backhoe and Ditching, Inc.** in the amount of \$292,376.70 for the installation of the well and force main; and

WHEREAS, the Hemisfair Groundwater Force Main Project is a water efficiency project which will allow the Hemisfair Park's water fountains to fully operate independent of drought restrictions; and

WHEREAS, this Project will intercept the water that is currently discharged into the storm sewer by capturing it and transferring it through the proposed force main to the fountain pump room to make up the water demand for the fountains; and

WHEREAS, Phase 1 of the Hemisfair Groundwater Force Main Project addressed the construction of a well and force main and Phase 2 addresses the Park's fountain treatment and circulation equipment; and

WHEREAS, this Ordinance authorizes a Change Order CIMS-01 in the amount of \$70,170.24 for Phase II of the HemisFair water treatment and circulation equipment project; and

WHEREAS, this Change Order provides for sizing the chlorine solution system for the north and south pump rooms at the HemisFair Fountain, installing the system, including all control panels and circulation equipment associated with the water treatment system; and

WHEREAS, approval of this Ordinance will be a continuation of Council policy to implement projects that achieve environmental sustainability; **NOW THEREFORE**,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

SECTION 1. Change Order CIMS-01 in the amount of \$70,170.24 is hereby approved. The City Manager or her designee is hereby authorized to execute Change Order CIMS-01 to the Contract with **Herschap Backhoe and Ditching, Inc.**

SECTION 2. The following financial adjustment is hereby approved:

- a) The budget in SAP Fund 40099000, Other Capital Projects, SAP Project Definition 40-00207, Hemisfair Plaza Groundwater Force Main, shall be revised by increasing\decreasing the SAP WBS Elements as follows:

WBS NO.	WBS NAME	G/L	G/L NAME	CURRENT PLAN VERSION 0 (Optional)	PLAN VERSION 0 REVISION/ Appropriation	REVISED PLAN VERSION 0 (Optional)
40-00207-05-02-01	Construction - City	5201140	Construction	\$304,790.00	\$57,756.94	\$362,546.94
40-00207-05-06	Project Contingency	5201140	Construction	\$68,755.97	-\$57,756.94	\$10,999.03
			TOTALS	\$373,545.97	\$0.00	\$373,545.97

b) Payment in the amount of \$70,170.24 from SAP Fund 40099000, Other Capital Projects, SAP Project Definition 40-00207, Hemisfair Plaza Groundwater Force Main, is authorized to be encumbered and made payable to **Herschap Backhoe & Ditching, Inc.** for construction services.

SECTION 3. The financial allocations in this Ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance may, subject to concurrence by the City Manager or the City Manager’s designee, correct allocation to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this Ordinance.

SECTION 4. This Ordinance shall be effective immediately upon passage by eight or more affirmative votes; otherwise, it shall be effective on the tenth day after passage.

PASSED AND APPROVED this 14th day of January, 2010.


M A Y O R
JULIÁN CASTRO

ATTEST: 
City Clerk

APPROVED AS TO FORM: 
for City Attorney

Agenda Item:	9 (in consent vote: 6, 7, 8, 9, 11, 12, 13, 14, 16A, 16B, 16C, 19A, 19C, 19D, 19E, 19G, 21A, 21B, 22, 23, 24, 26, 27A, 27B, 28, 29)						
Date:	01/14/2010						
Time:	10:03:25 AM						
Vote Type:	Motion to Approve						
Description:	An Ordinance authorizing a change order in the increased amount of \$70,170.24 to the \$292,376.70 construction contract with Herschap Backhoe & Ditching, Inc. for Phase II of the HemisFair Groundwater Force Main Project, funded in the FY 2010 Budget, located in Council District 1. [Pat DiGiovanni, Deputy City Manager; Mike Frisbie, Director, Capital Improvements Management Services]						
Result:	Passed						
Voter	Group	Not Present	Yea	Nay	Abstain	Motion	Second
Julián Castro	Mayor		x				
Mary Alice P. Cisneros	District 1		x			x	
Ivy R. Taylor	District 2		x				
Jennifer V. Ramos	District 3		x				x
Philip A. Cortez	District 4		x				
David Medina Jr.	District 5		x				
Ray Lopez	District 6		x				
Justin Rodriguez	District 7		x				
W. Reed Williams	District 8		x				
Elisa Chan	District 9		x				
John G. Clamp	District 10		x				



**CITY OF SAN ANTONIO
CONTRACT CHANGE ORDER**

Form PM Portal-CCO
Rev. 10 3/30/2009

12/15/09 14:25

Date Prepared: 12/15/2009 Change Order Title: HemisFair Herschap_CIMS-01 Project No. 40-00207
Project Name: Const - HemisFair Groundwater

Project Name as shown on the Work Project Authorization

The revision or amendment described below is to the work originally or previously specified is hereby requested, including all changes in costs.
(Describe work to be added or deleted, including SAP Material number. Attach a revised plan sheet affected or drawings.)

Title : HemisFair Groundwater Force Main - Construction
Number : 4600009393
HemisFair_Herschap_CIMS-01
Transfer \$70,170.24 from WBS 40-00207-05-06 (Project Contingency) to WBS 40-00207-05-02 (City Construction) for Phase II work which includes the installation of a water treatment system.

Justification for Proposed Alteration (Describe in detail why this work is to be added or deleted. Use attachments if necessary.):

City requested addition of water treatment system as Phase II of HemisFair Groundwater Project

Change Order will result in change to Contract Cost as: \$70,170.24

Change Order will result in change to Contract Days as: Working Days Calendar Days # Days 14
(To be negotiated by the Contractor and the City.)

REQUESTED BY:	APPROVED BY:
_____ President/Owner	_____ COSA Representative
_____ Date	_____ Date
Firm: <u>Herschap Backhoe & Ditching, INC</u>	

FOR CITY USE ONLY

Ordinance Required: Yes No Change Order \$25,000 (+ or -) Additional funds required: \$0.00
WBS Element: 40-00207-05-02 Contingency WBS Element: 40-00207-05-06
Project Contingency Original Balance: \$0.00

Original Contract Amount: <u>\$292,376.70</u>	Previous Approved COs: <u>\$0.00</u>
Previous Approved COs: <u>\$0.00</u>	This Change Order: <u>\$0.00</u>
This Change Order: <u>\$0.00</u>	Total: <u>\$0.00</u>
Total: <u>\$292,376.70</u>	Balance: <u>\$0.00</u>
Percent of Original Contract: <u>.0%</u>	

Fund #: _____ Ordinance #: _____ Ordinance Date: _____

Purchase Requisition #: _____ Contract #: 4600009393 Purchase Order #: _____

Fiscal Remarks: _____

NOTE: This form is a local government record and shall be retained in accordance with the provisions of the Local Government Code, Section 201.

City of San Antonio

Phone: 210-207-8223

TITLE: HemisFair_Herschap_CIMS-01

DATE: 12/15/2009

PROJECT: Const - HemisFair Groundwater

JOB:

TO: Attn: Jon Herschap
Herschap Backhoe & Ditching, INC
P.O. Drawer 489
Bastrop, TEXAS 75204
Phone: (512)217-7930 Fax: (512)581-0417

CONTRACT NO: 4600009393

DESCRIPTION OF CHANGE

Title : HemisFair Groundwater Force Main - Construction

Number : 4600009393

HemisFair_Herschap_CIMS-01

Transfer \$70,170.24 from WBS 40-00207-05-06 (Project Contingency) to WBS 40-00207-05-02 (City Construction) for Phase II work which includes the installation of a water treatment system.

Item	Description	Quantity	Units	Unit Price	Net Amount
00001	Water Treatment System	1.000	LS	\$70,170.24	\$70,170.24
Total Cost					\$70,170.24

The Original Contract Sum was	.....	\$292,376.70
Net Change by Previously Authorized Requests and Changes	.....	\$0.00
The Contract Sum Prior to This Change Order was	.....	\$292,376.70
The Contract Sum Will be Increased	.....	\$0.00
The New Contract Sum Including This Change Order	.....	\$292,376.70
The Contract Time Will be Increased	.....	14 days



P.O. Box 636
Buda, Texas 78610
512.243.2281

CONTRACT MODIFICATION

CHANGE ORDER WRITTEN AMENDMENT MODIFICATION NO.

CONTRACTOR: Central Texas Water Maintenance

PROJECT: Hemisfair Plaza Forced Main PROJECT NO.: 1270

OWNER: City of San Antonio

ENGINEER: K.M. NG & Associates, Inc.

The following modification(s) to the Contract are hereby ordered:

Please see attached scope.

Reason for Modification(s)

Requested by the City.

Contract Amount or Price		Contract Times (Calculate Days)	
Original	\$ 292,376.70	Original Duration	90 Days
Previous Contract Modification(s) (Add/Deduct)	\$ -	Previous Contract Modification(s) (Add/Deduct)	Days
This Contract Modification (Add/Deduct)	\$ 70,170.24	This Contract Modification (Add/Deduct)	14 Days
Revised Contract Amount	\$ 362,546.94	Revised Contract Time	104 Days

The Revised Contract Completion Date is:
February 14, 2010

Owner	Contractor	Engineer Recommendation
By: Date:	By: <i>[Signature]</i> Date: <i>12-1-09</i>	By: Date:



P.O. Box 636
Buda, Texas 78610
www.ctwm.com

Friday, November 16, 2009

City of San Antonio
Hemisfair Plaza Forced Main Project
Christopher G. Alonso, P.E., City of San Antonio

Central Texas Water Maintenance, LLC (CTWM) has been asked by Christopher G. Alonso, P.E., with the City of San Antonio, to provide a proposal and a "scope of work" for chlorinating the Hemisfair Plaza Pools. The objective is to chlorinate the raw water used to fill the Hemisfair pools as well as continual monitoring of the pools and adding additional chlorination as needed.

Herschap Backhoe and CTWM propose to do the following:

Chlorination of North and South Plaza Pools

South Plaza

- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into raw water intake for **Rock Fountain (Pre-Chlorination)**
- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into raw water intake for **South Cascade Fountain (Pre-Chlorination)**
- Provide and install drum of Sodium Hypochlorite for raw water chlorination (**Pre-Chlorination**)
- Provide and install mounting panel for all equipment necessary for the raw water chlorination equipment
- Provide and install Hach CL-17 Chlorine Residual Analyzer for **Rock Fountain**
- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into discharge line for **Rock Fountain (Post-Chlorination)**
- Provide and install drum of Sodium Hypochlorite for **Rock Fountain (Post-Chlorination)**
- Provide and install mounting panel for all equipment necessary for the **Rock Fountain**
- Provide and install Hach CL-17 Chlorine Residual Analyzer for **South Cascade Fountain**

- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into discharge line for **South Cascade Fountain (Post-Chlorination)**
- Provide and install drum of Sodium Hypochlorite for **South Cascade Fountain (Post-Chlorination)**
- Provide and install mounting panel for all equipment necessary for the **South Cascade Fountain**
- Provide and install two (2) recovery drums with discharge pumps to pump the Chlorine Residual sample water back to **South Cascade Fountain Pool** to conserve natural resources
- Provide and install all necessary PVC water piping and fittings to make Chlorination System operational
- Install two (2) 120 volt AC dedicated courtesy plugs for each Hach CL-17 chlorine residual analyzer for **Rock Fountain and the South Cascade Fountain**
- Provide and install free-standing mounting racks or wall mounts for the mounting panels for all chlorination equipment
- Provide and install new electrodes in **Rock Fountain and South Cascade Fountain** site glasses
- Clean, as needed, **Rock Fountain and South Cascade Fountain** site glasses
- Provide one (1) electric transfer pump to refill drums with Sodium Hypochlorite

EXCLUSIONS:

- All existing controls and control panels
- *Repairs to existing controls and control panels will be provided BUT at additional monies "if" and "as" needed*

North Plaza

- Provide and install Hach CL-17 Chlorine Residual Analyzer for **Reflection Fountain**
- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into discharge line for **Reflection Fountain (Post-Chlorination)**
- Provide and install drum of Sodium Hypochlorite for **Reflection Fountain (Post-Chlorination)**
- Provide and install mounting panel for all equipment necessary for the **Reflection Pool**
- Provide and install Hach CL-17 Chlorine Residual Analyzer for **North Cascade Fountain**
- Provide and install LMI chemical pump to inject Sodium Hypochlorite (Liquid Chlorination) into discharge line for **North Cascade Fountain (Post-Chlorination)**
- Provide and install drum of Sodium Hypochlorite for **North Cascade Fountain (Post-Chlorination)**
- Provide and install mounting panel for all equipment necessary for the **North Cascade Fountain**

- Provide and install two (2) recovery drums with discharge pumps to pump the Chlorine Residual sample water back to the **North Cascade Fountain Pool** to conserve natural resource
- Provide and install all necessary PVC water piping and fittings to make Chlorination System operational
- Install two (2) 120 volt AC dedicated courtesy plugs for each Hach CL-17 chlorine residual analyzer for **Reflection Fountain and North Cascade Fountain**
- Provide and install free-standing mounting racks or wall mounts for the mounting panels for all chlorination equipment
- Provide and install new electrodes in **North Cascade Fountain** site glass
- Clean as needed **North Cascade Fountain** site glass
- Provide one (1) electric transfer pump to refill drums with Sodium Hypochlorite

Please Note:

The North Plaza Pool(s) will not require Pre-Chlorination due to the fact that they will be filled by the "equalizer pipe" to be installed between the South Cascade Pool and the North Cascade Pool. Therefore, the "raw water" that flows from the South Pool into the North Pool will already be chlorinated.

EXCLUSIONS:

- All existing controls and control panels
- Repairs to existing controls and control panels will be provided BUT at additional monies "if" and "as" needed

Contractor Request for Information

Date: 16-Nov-09 RFI Number: 2

Project: Hemisfair Plaza Forced Main Project Number: _____

Contractor: Herschap Backhoe & Ditching, Inc.

Clarification Requested by: John Herschap and Billy Gray

Description:	
1. Proposal for non potable water chlorination system.	
Total Contract Amount	\$292,376.70
Chlorination System	\$70,170.24
New Contract Total	\$362,546.94
See attachment for chlorination system scope.	

Response Required _____

Prepared By: Tom Lemman

Date: 16-Nov-09

Engineers Response:

Response By: _____

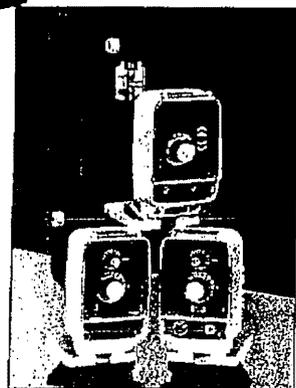
Date: _____

Electronic Metering Pumps

LMI's family of electronic metering pumps offer:

- Adjustable stroke frequency and the flexibility of up to 1000:1 turndown ratio
- Manually adjustable stroke length provides accurate pump output adjustment
- NEMA 4X / IP65 enclosures for protection against corrosive environments
- Time tested electronics for reliable, repeatable performance
- Totally encapsulated electronics for protection against moisture and corrosive conditions
- Priming valves with Fluorofilm™ diaphragms and ramp style knobs for "hands free" priming

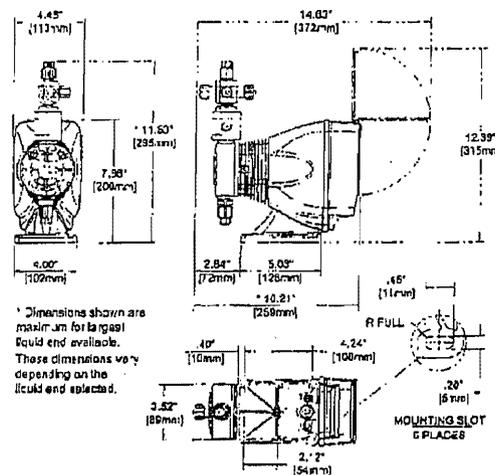
Series AA



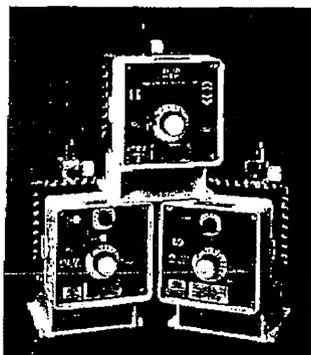
Key Features / Benefits

- Rigid stroke bracket assembly for highly accurate/consistent dosing performance
- Advanced control options for simplified system integration (pulse multiply/divide, 4-20 mA, remote on/off)
- 5-level power control option to reduce system shock and extend the life of the pump
- External pacing for flow proportional applications

Model	Max Output		Max Pressure	
	GPH	l/h	PSI	Bar
AAX4	0.58	2.2	250	17.3
AAX5	1.0	3.8	110	7.6
AAX6	2.0	7.6	50	3.5
AAX7	0.42	1.6	140	9.7
AAX8	0.75	2.8	80	5.5

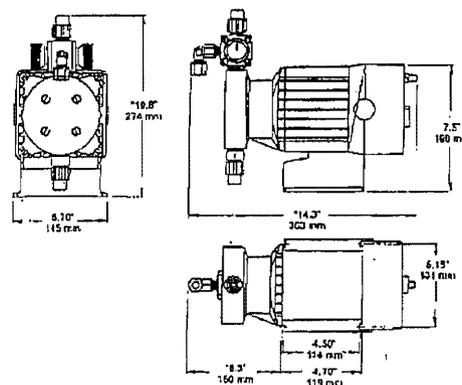


Series B / Series C



Series B				
Model	Max Output		Max Pressure	
	GPH	l/h	PSI	Bar
BX1	1.6	6.1	150	10.3
BX2	2.5	9.5	100	6.9
BX3	4.5	17.0	50	3.5
BX4	7.0	26.5	30	2.07

Series C				
Model	Max Output		Max Pressure	
	GPH	l/h	PSI	Bar
CX0	1.3	4.9	300	20.7
CX1	2.5	9.5	150	10.3
CX2	4.0	15.1	100	6.9
CX3	8.0	30.3	50	4.1
CX4	20.0	75.7	25	1.7
C76	4.0	15.1	175	12.1
C77	10.0	38.0	80	5.5
C78	25.0	95.0	30	2.07



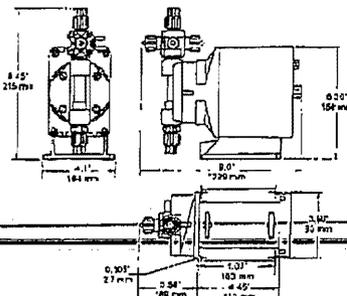
Series P



Key Features/Benefits

- High quality construction for durability
- Compact size; ideal for OEM applications
- Fixed speed versions for simple, low cost applications

Model	Max Output		Max Pressure	
	GPH	l/h	PSI	Bar
PX2	0.21	0.79	150	10.3
PX3	0.42	1.6	140	9.7
PX4	0.58	2.2	250	17.3
PX5	1.0	3.8	110	7.6
PX6	2.0	7.6	50	3.5

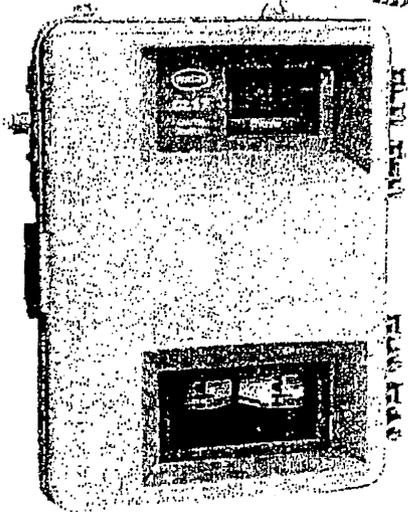


Chlorine, Free/Total: CL17 Analyzer

Process Instrumentation

Dependable, colorimetric DPD free and total chlorine analysis.

**EPA
APPROVED**



- Chlorine analysis independent of pH, temperature, and sample flow
- Unattended operation up to 30 days
- Colorimetric DPD chemistry—fast, reliable, economical

Analyzers include a one-month supply of reagents, installation and maintenance kits, and an instruction manual. Power cord must be ordered separately.

Prod. No.	Description
5440001	CL17 Free Residual Chlorine Analyzer
5440002	CL17 Total Residual Chlorine Analyzer
5440003	CL17 Free Residual Chlorine Analyzer with AquaTrend® Network Capability
5440004	CL17 Total Residual Chlorine Analyzer with AquaTrend® Network Capability
5449000	Calibration Verification Kit
2556900	Reagent Set, Chlorine, Free
2557000	Reagent Set, Chlorine, Total

For more information, request Literature #1626.



Measuring Range	Accuracy	Cycle Time
0.035 to 5 mg/L free or residual chlorine	±5% or ±0.035 mg/L, whichever is greater	2.5 minutes

Pumps quickly remove wastewater where gravity drain lines are not available.

SUMP PUMP SYSTEMS (BELOW GRADE)

Max. dia. solids: 3/8"

Assembled systems feature a removable filter tray that traps foreign debris. Ideal for foundation drains in homes or light commercial buildings. No. 5YU23 includes alarm.



No. 5YU22



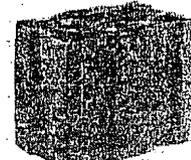
No. 5YA92



No. 5YU17



No. 4RK74



No. 4RK10

Max Assem waste to whi reside sewag tubs,

Dayto VIBRA-FLIGHT check No. 5

Little Featur Molde coupli compi switcl

Libert Comp alarm with C inspec able c during rubbe tight s

HP	Volts	Amps	Inlet	Discharge NPT (In.)	Vent Pipe Opening (In.)	GPM at 5' Total FL.	GPM at 10' Total FL.
Sump Pump Systems (Below Grade)							
1/3	115	8.5	4" Drain Tile	1 1/2"	—	42	35
1/2	115	10	4" Drain Tile	1 1/2"	—	62	55
Wastewater Pump Systems (Below Grade)							
1/40	120	3.2	4"	2"	2 or 3"	80	50
4/10	115	12	4" No Hub	2"	2"	77	52
4/10	115	12	4" No Hub	2"	2"	77	52
1/2	120	10.5	4"	2"	2"	117.5	78
1/2	240	6.2	4"	2"	2"	140	117.5
1/2	115	12	4" No Hub	2"	2"	135	112
1/2	115	12	4" No Hub	2"	2"	135	112
1/2	208-230	6.8	4" No Hub	2"	2"	135	112
1/2	208-230	6.8	4" No Hub	2"	2"	135	112
Sink Pump Wastewater Removal Systems (Above Grade)							
1/3	115	3.1	1 1/2"	1 1/2"	2"	38	30
1/3	115	9.8	1 1/2"	1 1/2"	1 1/2"	46	40
1/3	115	9	1 1/2"	1.5"	2"	46	29
1/3	115	5	1 1/2"	1 1/2"	1 1/2"	52	26
1/2	115	7.3	2"	2"	2"	48	44

Description Inlet (In.) Outlet (In.) Vent (In.)

Sink Tray with Cover 1 1/2" 1 1/2" and 1 1/2" 2" 1"

(* Operation of pump in this range will result in reducing pump life and/or in