

## Release Summary Sheet

**Contract (PO) Number:** 16882

**Release Number:** 28

**Specification Number:** 57807

**Name of Contractor:** AIRPORT CONTRACTING GROUP

**City Department:** DEPT OF AVIATION

**Title of Contract:** JOB ORDER CONTRACT FOR REHABILITATION OF AIRPORT  
FACILITIES

**Dollar Amount of Release:** \$685,571.34

**Release Description:** JOB ORDER CONTRACT FOR REHABILITATION OF AIRPORT  
FACILITIES

**Procurement Services Contact Person:** LYLIANIS RODRIGUEZ

**Vendor Number:** 51293025

**Submission Date:**

**CITY OF CHICAGO  
BLANKET RELEASE**

Original (Department)

Furnish the supplies and/or services described below in conformance with conditions set forth herein and in your offer

RELEASE DATE	PURCHASE ORDER	RELEASE NUMBER	SPECIFICATION NUMBER	VENDOR NUMBER	SITE NAME	DELIVERY DATE	PAGE NUMBER
9/24/2010	16882	28	57807	51293025	A		1

DELIVER TO: 85-085

085-2015 O'HARE  
O'HARE AIRPORT

Chicago, IL 60666

ORDERED FROM:

AIRPORT CONTRACTING GROUP  
333 N MICHIGAN AVE STE 625

CHICAGO, IL 60601

DELIVERY CHARGES to be PREPAID  
TITLE TO PASS ON DELIVERY

CONTACT: 7738942402gp

PO DESCRIPTION: JOB ORDER CONTRACT FOR REHABILITATION OF AIRPORT FACILITIES

BLANKET RELEASE

THIS SIGNED RELEASE IS YOUR AUTHORITY TO FURNISH THE SPECIFIED SUPPLIES AND /OR SERVICES IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE BLANKET AGREEMENT NUMBER: 16882

THIS PURCHASE IS FOR DEPARTMENT: 85 - DEPT OF AVIATION

SUBMIT THE ORIGINAL INVOICE TO:

PO Line	Shp Line	COMMODITY INFORMATION	QUANTITY	UOM	UNIT COST	TOTAL COST					
1	1	96842	685,571.34	USD	1.00	685,571.34					
JOB ORDER CONTRACT FOR REHABILITATION OF AIRPORT FACILITIES											
REQ# 53279; JH-6606-02; FIRE PROTECTION WATER MAIN REPLACEMENT; PO# 16882											
Dist	BFY	FUND	COST CTR	APPR	ACCNT	ACTV	PROJECT	RPT CAT	GENRL	FUTR	TOTAL COST
1	000	0582	0852015	8000	220161	0000	H800005E	000000	00000	0000	85,571.34
2	010	0756	0854010	1010	220161	0000	H101010E	000000	00000	0000	600,000.00
SHIPMENT TOTAL:											685,571.34

RELEASE TOTAL: 685,571.34

APPROVAL

SIGNATURE

DATE

10/4/10

SIGNATURE

DATE

10/21/10

*RB*

Payment on this order will be made upon receipt of an original vendor invoice form referencing this order.

Submit the original invoice to the department referenced above.

Mark all packages and papers with the purchase number.

Any deliveries containing overshipments will be reflected unless otherwise authorized in this purchase.

This purchase is subject to the City of Chicago General Conditions for Supplies, Work, or Professional Consulting Services; Special Conditions, Disclosure Ownership, Acceptance Page, as applicable, which are attached hereto or incorporated herein by reference.



Sub-Order Total: 685,571.34

**Disclosure of Retained Parties**

**A. Definitions and Disclosure Requirements**

1. As used herein, the term "Contractor" means a person or entity who has any contract lease with the City of Chicago.
2. Pursuant to Executive Order 97-1, every city contract and lease must be accompanied by a disclosure statement providing certain information and attorneys, lobbyists, accountants, consultants, subcontractors, and other persons whom the contractor has retained or expects to retain with respect to the contract or lease. In particular, the contractor must disclose the name of each such person, his or her business address, the nature of the relationship, and the amount of fees paid or estimated to be paid.
3. The Contractor is not required to disclose employees who are paid solely through the Contractor's regular payroll.
4. "Lobbyist" means any person (a) who for compensation or on behalf of any person other than himself undertakes to influence any legislative or administrative action, or (b) any part or whose duties as an employee of another includes undertaking to influence any legislative or administrative action.

**B. Certification**

Contractor hereby certifies as follows:

1. This Disclosure relates to the following transaction:

Project name: JH-6066 002                      Fire Pump House  
Specification, loan or other identifying number: 57807 - 16882 - 2nd Anniversary

2. Name of Contractor: Airport Contracting Group

3. EACH AND EVERY attorney, lobbyist, accountant, consultant, subcontractor, or other person retained or anticipated to be retained by the Contractor with respect to or in connection with the contract or lease is listed below (attach additional pages if necessary):

Name	BUSINESS ADDRESS	MBE WBE or Non	Relationship (attorney, lobbyist, subcontractor, etc.)	FEE (Indicate whether paid or estimated)
Western Utility Contractors, Inc.	2565 Palmer Avenue University, IL	Non	Subcontractor	\$343,483.50 Est.
Luise, Inc.		WBE	Subcontractor	\$47,675.60 Est.
Airport Contracting Group ( Tishman )	180 W. Washington St. Suite 1100	Non	Subcontractor	\$5,971.62 Est.
Roughneck Concrete Drilling & Sawing C	8400 Lehigh Avenue Morton Grove, IL, 60053	WBE	Subcontractor	\$5,620.00 Est.
Airport Contracting Group (LJE)	333 N Michigan Ave- Suite 625	MBE	Subcontractor	\$31,052.45 Est.
Sanchez Paving Company, Inc.	16309 Crawford Markham, IL, 60428	MBE	Subcontractor	\$57,176.00 Est.
Airport Contracting Group ( Spaan Tech	311 . Wacker Dr. Suite 2400 Chicago, IL, 60606	WBE	Subcontractor	\$22,692.17 Est.
GSG Consultants, Inc.	855 West Adama Chicago, IL,	MBE	Subcontractor	\$6,900.00 Est.
Spaan Tech, Inc.	311 S. Wacker Dr. Suite 2400	WBE	Subcontractor	\$165,000.00 Est.

CHECK HERE IF NO SUCH PERSONS HAVE BEEN RETAINED OR ARE ANTICIPATED TO BE RETAINED \_\_\_\_\_

4. The Contractor Understands and agrees that the city may rely on the information provided herein and that providing any false incomplete or inaccurate information shall constitute default under the contract and may result in termination of the contract or lease

5. The Contractor understands and agrees that in any case in which the Contractor is uncertain whether a disclosure is required under the Executive order, the Contractor must either ask the city whether disclosure is required or make the disclosure.

Under the Penalties of perjury, I certify that I am authorized to execute this Disclosure on behalf of the Contractor that the information disclosed herein is true and complete, and that no relevant information has been withheld.

September 16, 2010

Signature

Louis Jones

Name (Type or Print)

Date

Manager

Title

Subscribed and sworn to before me

this 16th day of Sep 20 10

Sonia Renteria

Notary Public Signature





City of Chicago  
Richard M. Daley, Mayor

Department of Aviation

Rosemarie S. Andolino  
Commissioner

Chicago O'Hare International Airport  
P.O. Box 66142  
Chicago, Illinois 60666  
(773) 686-2200  
(773) 686-8333 (TTY)

O'Hare Modernization Program  
P.O. Box 66848  
10510 W. Zemke Road  
Chicago, IL 60666  
(773) 462-7300  
(773) 462-8552 (Fax)

Chicago Midway International Airport  
5700 South Cicero Avenue  
Chicago, Illinois 60638  
(773) 838-0600  
(773) 838-0795 (TTY)

www.flychicago.com  
www.OhareModernization.org

Memorandum of Authorization (MOA)

July 1, 2010

Ms. Jamie L. Rhee  
Chief Procurement Officer  
Department of Procurement Services  
City Hall, Room 403  
121 North LaSalle Street  
Chicago, IL 60602

Attn: Carol Johnson  
JOC Manager

Re: JOC Project Number: JH-6066.02

Project Title: Emergency Fire Protection Water Main

Estimated Cost: \$535,000.00

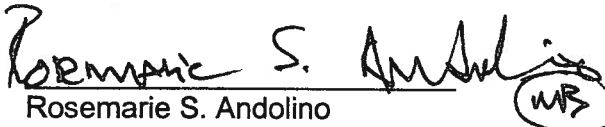
Specification Number: 16882  
Airport Contracting Group

Funding Source: Maintenance Reserve

Dear Ms. Rhee,

I request that the above referenced emergency fire protection water main project be contracted under the Job Order Contracting (JOC) Method. The JOC justification attached describes the scope of work and the reason for using JOC for this project.

Sincerely,

  
Rosemarie S. Andolino  
Commissioner

APPROVED:

  
Jamie L. Rhee  
Chief Procurement Officer

CC: J. McIsaac  
J. Sisco





City of Chicago  
Richard M. Daley, Mayor

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CHICAGO AIRPORT SYSTEM

To: Jamie L. Rhee  
Chief Procurement Officer  
Department of Procurement Services

From: Rosemarie S. Andolino   
Commissioner  
Chicago Department of Aviation

Originated by:   
John F. Sisco  
Deputy Commissioner

Subject: Request for JOC Emergency Authorization  
Valve Repair  
Vendor: Airport Contracting Group  
P.O. Number: 16882  
Estimated Value \$535,000.00

The Chicago Department of Aviation (CDA) is requesting the emergency services of Airport Contracting Group (ACG), CDA's JOC Contractor. We are requesting the emergency work be done utilizing the JOC contract based on an incident that occurred on May 25th at 7:58am on the lower level roadway in front of Terminal 1. A twenty five pound top section of a gate valve exploded off the fire protection water main, and burst through a seventy five pound manhole cover and landed approximately 20 feet away on the lower level roadway. A giser of water extended 35 feet into the air for approximately one hour before the plumbers were able to shut off the water supply, which resulted in the loss of fire protection for the Domestic Terminals, Hilton Hotel, FAA Control Tower and the City Operations Tower.

ACG is already under contract with prices determined from the Construction Task Catalog. ACG is currently working on the Fire Pumps in Lot B, which has been authorized under previously approved JOC project. ACG can respond immediately and effectively due their current project at Lot B Pump House and their extensive design knowledge based on this job. In addition there is no CDA or City Wide term contract that exists with State of Illinois Certified Sprinkler Contractors. Chicago Fire Department will not approve any replacement work without the plans being approved by a licensed Fire Sprinkler Contractor.



Bidding a stand alone contract for these services is not feasible given the need to immediately address the repairs on the City's only feed for the fire protection line that is approximately 36 years old.

Upon approval of this emergency JOC request, work to replace the water main will commence. CDA will follow up with the required documentation once the final value of the work is determined since the estimate is based on a visual inspection. If you have any questions please contact John Sisco at 773-686-4604.

cc: B. Whitaker  
F. Grimaldi  
L. Pianto

## **Emergency Procedures for Chicago Departments to follow.**

The City JOC procedures clearly state that the MOA and the SOR must be prepared prior to the start of a construction project. There are only two exceptions to this procedure: 1) emergency situations as defined below and 2) change order work.

**Definition of an emergency:** Any unexpected event that endangers life, health, property, essential public services or operational effectiveness and requires immediate attention within 24 hours. Attached is the procedure to be followed to address emergency work situations.

### **Step 1.**

Department sends an e-mail to Department of Procurement Services Attn; Commissioner Jamie L. Rhee, 1<sup>st</sup> Deputy Richard Butler, and Construction Manager Byron Whittaker. CC: The Gordian Group PM - Christian Mellon. The E-mail should state the location of the project and the nature of the emergency. Give a brief projects description along with the name of the contractor who will be doing the repair work. **NOTE:** If it is required to start work on the emergency during other than regular working hours and phone contact is impracticable, phone contact must be made at the earliest opportunity the following day.

### **Step 2.**

If the Emergency is Life, Safety, or Health then the department may direct the Contractor take whatever steps necessary to prevent bodily injury and or further property damage from happening. The Department will fill out the MOA in Progen® and obtain department signatures within 48 hours of the original e-mail. Note the Title of the Project should state EMERGENCY before the project name. i.e. EMERGENCY - 14th District Police Station Chiller Replacement. The Department will send the MOA to Procurement and alert The Gordian Groups PM and the City JOC coordinator (Carolyn Johnson) that the MOA is coming over. Once Carolyn receives the MOA she will place it in the red folder and deliver the MOA to Byron Whittaker for prompt processing. Once signed the MOA will be returned to the department.

### **Step3.**

During the Course of the repair work, both the contractors and the Department will record the labor, equipment and materials used on the emergency. The Department Project Manager will identify a funding strip, and obtain the F-18 if required.



**Step 4.**

Once the Emergency situation is resolved, the Contractor shall prepare a proposal for the Department to Review and verify. Once the Proposal is approved the Contractor shall prepare a final JOC Work Order Proposal Package and submit to the PM. The PM will prepare the SOR package for processing and issuance of the Sub Order Release.



57807 - 16882 - 1st Anniversary

JOC Work Order #: JH-6066.02

WorkOrder Title: Fire Protection Water Main

## Cost Estimate

Location:

Sect.	Item	Mod.	UOM	Description	Line Total
<b>Section 01</b>					
01203	0002		EA	Professional Architectural/Engineering ServicesNote: For the preparation of "Stamped" drawing	157,000.00
				Quantity                      Unit Price                      Factor                      Total	
			Installation	157,000.00    x                      1.00    x                      1.0000    =	157,000.00
			Demolition	0.00    x                      0.00    x                      1.0000    =	0.00
01431	0020		EA	Tiered Approach to Corrective Action Objectives (TACO) TestNote: 7 day turnaround.	3,191.10
				Quantity                      Unit Price                      Factor                      Total	
			Installation	2.00    x                      1,500.00    x                      1.0637    =	3,191.10
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Test soil to determine if it can be dumped on west side of airport.	
01431	0149		EA	Unlimited Thickness Plate, Per Position, (AWS D1.1)	3,643.60
				Quantity                      Unit Price                      Factor                      Total	
			Installation	20.00    x                      171.27    x                      1.0637    =	3,643.60
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Test welding on 12" pipe in tunnel and pump house.	
01560	0017		LF	Temporary Street Barricade, Using 12"x12" Beam As Base With 2"x4" Top Warning Rail And S	1,890.85
				Quantity                      Unit Price                      Factor                      Total	
			Installation	225.00    x                      6.87    x                      1.0637    =	1,644.21
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Barricade set up and take down of barricades for roadwork.	
01560	0045		WK	Arrowboard, Trailer Mounted	2,074.22
				Quantity                      Unit Price                      Factor                      Total	
			Installation	4.00    x                      325.00    x                      1.0637    =	1,382.81
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Arrow board used for traffic control on roadway.	
01590	0066		WK	1" x 8' x 16' Steel Plate	542.49
				Quantity                      Unit Price                      Factor                      Total	
			Installation	10.00    x                      51.00    x                      1.0637    =	542.49
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Steel plates to cover open excavation when crews are not working.	
01590	0136		WK	1-1/8 To 1-1/4 CY Excavator, With Full-Time Operator	15,240.71
				Quantity                      Unit Price                      Factor                      Total	
			Installation	3.50    x                      4,093.72    x                      1.0637    =	15,240.71
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Excavator used to install 12" fire protection water main.	
01590	0194		WK	2-1/2 CY, 135 HP Loader, With Full-Time Operator	8,536.62
				Quantity                      Unit Price                      Factor                      Total	
			Installation	2.00    x                      4,012.70    x                      1.0637    =	8,536.62
			Demolition	0.00    x                      0.00    x                      1.0637    =	0.00
				Loader for removing trench spoils.	

Sect.	Item	Mod.	UOM	Description	Line Total		
01590	0263		WK	8' x 20' Trench Box, Including Spreaders Up To 48"	2,568.84		
				Quantity	Unit Price	Factor	Total
			Installation	4.00 x	525.00 x	1.0637 =	2,233.77
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Used for pipe installation.				
01720	0003		ACR	Ground Penetrating Radar (GPR) SurveyNote: Minimum quantity is 1/2 acre per project.	4,243.63		
				Quantity	Unit Price	Factor	Total
			Installation	0.50 x	7,979.00 x	1.0637 =	4,243.63
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Locating utility services				
<b>Subtotal for 01</b>					<b>198,932.06</b>		
<b>Section 02</b>							
02112	0004		SY	Break-up And Remove >3" To 6" Thick Bituminous	3,744.08		
				Quantity	Unit Price	Factor	Total
			Installation	583.00 x	8.05 x	1.0637 =	4,992.10
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			10'x525/9				
02112	0119		LF	Saw Cut Bituminous Paving Up To 4" (10 cm) Depth	3,311.30		
				Quantity	Unit Price	Factor	Total
			Installation	1,100.00 x	2.83 x	1.0637 =	3,311.30
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
02112	0191		IN	Drill 12" (30 cm) Diameter Core In >12" (30 cm) Concrete	6,245.62		
				Quantity	Unit Price	Factor	Total
			Installation	180.00 x	32.62 x	1.0637 =	6,245.62
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Core 24" hole in tunnel and in pump house.				
02119	0008		TON	Disposal Of Non-Hazardous Special WasteNote: Includes but not limited to the following: In-Pla	23,826.88		
				Quantity	Unit Price	Factor	Total
			Installation	700.00 x	32.00 x	1.0637 =	23,826.88
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
02119	0012		CYM	Hauling	1,790.21		
				Quantity	Unit Price	Factor	Total
			Installation	1,650.00 x	1.02 x	1.0637 =	1,790.21
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			6'x525'x6' 700cy of fill and 933cy of disposal 1650cy				
02119	0038		TON	Haul Imported Stone / Aggregate Fill To Wards (40,44,47,46,48, 49,50)	7,694.27		
				Quantity	Unit Price	Factor	Total
			Installation	1,000.00 x	6.29 x	1.0637 =	6,690.67
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Crushed road base and CA-7				
02201	0004		EA	Backhoe, Dozer Or Roller > 250 HP Delivery/Mob/DemobNote: Use for backhoe, dozer, roller, l	2,135.84		
				Quantity	Unit Price	Factor	Total
			Installation	4.00 x	582.01 x	1.0637 =	1,857.25
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Excavator, loader, trench box. <i>1 steel plates</i>				
02212	0005		CY	Excavation For Greater Than A Depth Of 8'	233.48		
				Quantity	Unit Price	Factor	Total
			Installation	50.00 x	4.39 x	1.0637 =	233.48
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Excavation by tunnel and pump house.				
02212	0009		CY	Excavation Around Buried Structures To Remain > 8'	247.63		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	7.76 x	1.0637 =	247.63
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
			Excavat around existing water main connection to the pump house, connection to the tunnel and storm sewer.				

Sect.	Item	Mod.	UOM	Description	Line Total		
02212	0048		TON	Grade And Compact Backfill / Undercut Fill (> 1000 Ton)Note: Includes spreading, shaping, rot	1,521.09		
				Quantity	Unit Price	Factor	Total
			Installation	1,000.00 x	1.43 x	1.0637 =	1,521.09
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Crushed road base and CA-7 1000tons			
02213	0004		TON	CA 7 Stone Aggregate Fill	17,888.03		
				Quantity	Unit Price	Factor	Total
			Installation	1,274.00 x	13.20 x	1.0637 =	17,888.03
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				6'x525'x8' 933cy x2730lbs/cy/2000			
02455	0006		LF	10" (25 cm) Diameter Mechanical Joint, Ductile Iron Pipe	289.33		
				Quantity	Unit Price	Factor	Total
			Installation	5.00 x	41.17 x	1.0637 =	218.96
			Demolition	5.00 x	13.23 x	1.0637 =	70.36
				Remove and replace drain line spool piece.			
02455	0007		LF	12" (31 cm) Diameter Mechanical Joint, Ductile Iron Pipe	6,025.75		
				Quantity	Unit Price	Factor	Total
			Installation	100.00 x	49.26 x	1.0637 =	5,239.79
			Demolition	0.00 x	14.70 x	1.0637 =	0.00
				Piping required in tunnel and pump house.			
02455	0007		LF	12" (31 cm) Diameter Mechanical Joint, Ductile Iron Pipe	103,635.76		
				Quantity	Unit Price	Factor	Total
			Installation	525.00 x	47.16 x	1.0637 =	26,336.15
			Demolition	525.00 x	14.70 x	1.0637 =	8,209.10
				Remove and replaced 12" water main.			
02455	0018		EA	12" (30 cm) Diameter Mechanical Joint, 90 Degree Ductile Iron Elbow	2,453.51		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	934.05 x	1.0637 =	1,987.10
			Demolition	2.00 x	68.81 x	1.0637 =	146.39
				Cla-Val portion of work and tunnel portion of work.			
02455	0029		EA	12" (30 cm) Diameter Mechanical Joint, 45 Degree Ductile Iron Elbow	3,034.90		
				Quantity	Unit Price	Factor	Total
			Installation	4.00 x	620.25 x	1.0637 =	2,639.04
			Demolition	0.00 x	68.81 x	1.0637 =	0.00
				To be placed at pump house and at tunnel.			
02455	0064		EA	12" x 12" Mechanical Joint Ductile Iron Tee	1,765.60		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	721.68 x	1.0637 =	1,535.30
			Demolition	0.00 x	101.41 x	1.0637 =	0.00
				Tee for tunnel connection and tee for pump house			
02456	0025		LF	24" (61 cm) Diameter Uncoated Steel Pipe 7/16" Wall Thickness, Plain End, Welded	9,836.57		
				Quantity	Unit Price	Factor	Total
			Installation	60.00 x	123.30 x	1.0637 =	7,869.25
			Demolition	0.00 x	46.02 x	1.0637 =	0.00
				Casing for utility crossings.			
02556	0010		EA	12" Diameter AWWA Rated Butterfly Valve, ANSI 125/150 Flanged Connection, Cast Iron Body	18,678.75		
				Quantity	Unit Price	Factor	Total
			Installation	9.00 x	1,951.13 x	1.0637 =	18,678.75
			Demolition	0.00 x	253.41 x	1.0637 =	0.00
				Butterfly valves by clay valve and one in bypass loop. Three in new pipe section. Three in ring tunnel.			
02561	0022		EA	4' (1.2 m) Diameter x 8' (2.4 m) Deep Precast Manhole 8" (21 cm) Thick	3,844.32		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	1,807.05 x	1.0637 =	3,844.32
			Demolition	0.00 x	445.77 x	1.0637 =	0.00
				Valve vaults for new fire water main.			

Sect.	Item	Mod.	UOM	Description	Line Total		
02561	0127		EA	24" Square x 500 # (61 cm x 227 kg) Regular Manhole CoverNote: Cast Iron With Frame, City	1,639.50		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	770.66 x	1.0637 =	1,639.50
			Demolition	0.00 x	76.12 x	1.0637 =	0.00
				Manhole frame and cover for valve vaults.			
02611	0004		CY	Graded Crushed Aggregate Roadway Base Course	2,523.52		
				Quantity	Unit Price	Factor	Total
			Installation	60.00 x	39.54 x	1.0637 =	2,523.52
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				6'x525'x6" 59cy rounded up to 60			
02612	0005		CSF	Tack Coat, 0.1 Gal/SY (0.5 l/m2)	190.03		
				Quantity	Unit Price	Factor	Total
			Installation	45.00 x	3.97 x	1.0637 =	190.03
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Tack coat for asphalt.			
02612	006C		TON	Hot Mix Asphalt Surface Course, Superpave Mix D, N50 (0 > 50)	34,310.71		
				Quantity	Unit Price	Factor	Total
			Installation	90.00 x	89.60 x	1.0637 =	8,577.68
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				10'x525'x4" 1748cy x 2730lbs/2000 Rounded up to 90 tons			
02614	078C		LF	High Strength Combination Concrete Curb And Gutter, Type B-V-12, (50 > 200)	872.77		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	27.35 x	1.0637 =	872.77
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Curb at roadway			
02618	0088		LF	4" (10 cm) Wide Painted Line for Parking Area	781.82		
				Quantity	Unit Price	Factor	Total
			Installation	1,500.00 x	0.49 x	1.0637 =	781.82
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Re-paint all parking stall striping in work area and any roadway markings			
02831	0041		EA	Container, 10 Gallon, Shrub Planting	431.18		
				Quantity	Unit Price	Factor	Total
			Installation	6.00 x	67.56 x	1.0637 =	431.18
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Remove and install bushes by roadway.			
<b>Subtotal for 02</b>					<b>258,952.45</b>		
<b>Section 03</b>							
03311	0037		CY	Pour Concrete By Direct Chute	1,519.35		
				Quantity	Unit Price	Factor	Total
			Installation	12.00 x	119.03 x	1.0637 =	1,519.35
			Demolition	0.00 x	0.00 x	1.0637 =	0.00
				Thrust block and parking lot island.			
<b>Subtotal for 03</b>					<b>1,519.35</b>		
<b>Section 13</b>							
13111	0004		EA	17 # (7.7 kg) Magnesium Type Anodes	2,443.36		
				Quantity	Unit Price	Factor	Total
			Installation	6.00 x	382.84 x	1.0637 =	2,443.36
			Demolition	0.00 x	125.55 x	1.0637 =	0.00
13111	0026		MLF	Cathodic Protection Cable, OR2 - No 1	1,423.98		
				Quantity	Unit Price	Factor	Total
			Installation	0.50 x	2,677.41 x	1.0637 =	1,423.98
			Demolition	0.00 x	515.94 x	1.0637 =	0.00
13111	0037		EA	Cathodic Test Station	15,964.01		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	7,504.00 x	1.0637 =	15,964.01
			Demolition	0.00 x	198.31 x	1.0637 =	0.00

Sect.	Item	Mod.	UOM	Description	Line Total
<b>Subtotal for 13</b>					<b>19,831.35</b>

**Section 15**

15048	0041		EA	Hydrostatic Test, 500-1000 LF Of 6" - 10" Diameter Pipe	1,685.00
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      1.00                      x                      1,584.09                      x                      1.0637                      =                      1,685.00	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
				Test of pipe after installation.	
15061	0408		LF	2" (51 mm) Black Pipe, Plain End Schedule 40 ASTM A-53, Not Including Hangers Or Fittings	868.40
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      40.00                      x                      15.09                      x                      1.0637                      =                      642.05	
				Demolition                      40.00                      x                      5.32                      x                      1.0637                      =                      226.36	
				Replacement pipe for Jockey Pumps.	
15062	0080		EA	12" X 10" Wye Cast Iron Fitting	872.56
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      1.00                      x                      820.31                      x                      1.0637                      =                      872.56	
				Demolition                      0.00                      x                      130.67                      x                      1.0637                      =                      0.00	
				Replace Wye in 10" drain line.	
15094	0024		EA	12" Steel Clevis Roller Hanger Type 43	1,353.98
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      10.00                      x                      92.89                      x                      1.0637                      =                      988.07	
				Demolition                      10.00                      x                      34.40                      x                      1.0637                      =                      365.91	
				Cla-Val portion of work	
15MOD	0024	0145		For Work In Restricted Working Space, Add	87.82
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      4.00                      x                      20.64                      x                      1.0637                      =                      87.82	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
15094	0223		LF	5/8" Diameter Continuous Threaded Rod, Plain Steel, Bright Finish	317.41
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      80.00                      x                      3.26                      x                      1.0637                      =                      277.41	
				Demolition                      80.00                      x                      0.47                      x                      1.0637                      =                      40.00	
				Cla-Val portion of work	
15MOD	0223	0141		For Galvanized, Add	19.57
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      20.00                      x                      0.92                      x                      1.0637                      =                      19.57	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
15MOD	0223	0145		For Work In Restricted Working Space, Add	6.17
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      20.00                      x                      0.29                      x                      1.0637                      =                      6.17	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
15094	0239		EA	5/8" Washer, Flat	54.46
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      64.00                      x                      0.59                      x                      1.0637                      =                      40.17	
				Demolition                      64.00                      x                      0.21                      x                      1.0637                      =                      14.30	
				Cla-Val portion of work	
15MOD	0239	0143		For Galvanized, Add	1.70
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      32.00                      x                      0.05                      x                      1.0637                      =                      1.70	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
15MOD	0239	0145		For Work In Restricted Working Space, Add	3.74
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      32.00                      x                      0.11                      x                      1.0637                      =                      3.74	
				Demolition                      0.00                      x                      0.00                      x                      1.0637                      =                      0.00	
15094	0253		EA	5/8" Nut, Hex	25.19
				Quantity                      Unit Price                      Factor                      Total	
				Installation                      32.00                      x                      0.57                      x                      1.0637                      =                      19.40	
				Demolition                      32.00                      x                      0.17                      x                      1.0637                      =                      5.79	
				Cla-Val portion of work	

Sect.	Item	Mod.	UOM	Description	Line Total	
15MOD	0253	0144		For Galvanized, Add	0.51	
			Quantity	Unit Price	Factor	Total
			Installation	16.00 x 0.03	x 1.0637 =	0.51
			Demolition	0.00 x 0.00	x 1.0637 =	0.00
15MOD	0253	0145		For Work In Restricted Working Space, Add	2.38	
			Quantity	Unit Price	Factor	Total
			Installation	16.00 x 0.14	x 1.0637 =	2.38
			Demolition	0.00 x 0.00	x 1.0637 =	0.00
15101	0001		EA	Temporary freezing of pipe for repair work	23,401.40	
			Quantity	Unit Price	Factor	Total
			Installation	4.00 x 5,500.00	x 1.0637 =	23,401.40
			Demolition	0.00 x 0.00	x 1.0637 =	0.00
			Cla-Val portion of work			
15101	0054		EA	12" Gate Valve, Iron Body, Flanged, OS&Y, 125#	5,735.07	
			Quantity	Unit Price	Factor	Total
			Installation	2.00 x 2,289.11	x 1.0637 =	4,869.85
			Demolition	2.00 x 406.70	x 1.0637 =	865.21
			Cla-Val portion of work			
15MOD	0054	0166		For Chain Operated Type, Add	1,895.13	
			Quantity	Unit Price	Factor	Total
			Installation	2.00 x 890.82	x 1.0637 =	1,895.13
			Demolition	0.00 x 0.00	x 1.0637 =	0.00
15MOD	0054	0167		For Work In Restricted Working Space, Add	323.88	
			Quantity	Unit Price	Factor	Total
			Installation	2.00 x 152.24	x 1.0637 =	323.88
			Demolition	0.00 x 0.00	x 1.0637 =	0.00
15101	0100		EA	12" Cla-Valve	18,455.79	
			Quantity	Unit Price	Factor	Total
			Installation	1.00 x 19,495.00	x 1.0655 =	20,771.92
			Demolition	1.00 x 3,600.00	x 1.0655 =	3,835.80
			Cla-Val portion of work			
<b>Subtotal for 15</b>					<b>55,110.16</b>	
<b>Estimate Sub-Total</b>					<b>534,345.37</b>	
<b>Overhead</b>					<b>64,121.44</b>	
<b>Profit</b>					<b>0.00</b>	
<b>Estimate Total</b>					<b>598,466.81</b>	