

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

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Meeting Date:   July 10, 2007           Consent [X]           Regular [ ]
                                   Public Hearing [ ]

Submitted By:   Water Utilities Department
Submitted For:  Water Utilities Department
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I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Work Authorization No. 2 to the Water Utilities Department Disaster Recovery Design/Build Services with CH2M HILL, Inc. (R2006-1934) for construction of the Southern Region Water Reclamation Facility Hurricane Hardening Project in the amount of \$1,437,422.77.

Summary: On September 12, 2006, the Board approved the Water Utilities Department Disaster Recovery Design/Build Services with CH2M HILL, Inc. (R2006-1934). This Work Authorization is for hurricane hardening mitigation at the Southern Region Water Reclamation Facility. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with CH2M HILL, Inc. provides for SBE participation of 15.00% overall. This authorization includes 40.76% overall participation. The cumulative SBE participation, including this work authorization, is 40.22% overall.

(WUD Project No. 07-151)

District 5

(JM)

Background and Justification: This Work Authorization is for hurricane hardening mitigation of the Southern Region Water Reclamation Facility which is a 35 million gallon per day wastewater treatment plant. The hardening of this facility is prudent planning to ensure the integrity of the County's wastewater infrastructure from natural disasters, including Category 4 or 5 hurricanes. The proposed improvements are based upon structural engineering review of the Southern Region Water Reclamation Facility by Bridge Design & Associates, Inc. The Work Authorization includes hardening of existing skylights, windows, louvers, doors and roof mounted equipment to prevent wind damage and water intrusion. On September 12, 2006, the Board approved the Water Utilities Department Disaster Recovery Design/Build Services with CH2M HILL, Inc. (R2006-1934).

Attachments:

- 1. Location Map
- 2. Two (2) Original Work Authorization No. 2

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Recommended By:        Lisa L. Piva                  06/21/07
                                   Department Director           Date

Approved By:        Shannon R. ...                  6/24/07
                                   Assistant County Administrator           Date

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II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2007	2008	2009	2010	2011
Capital Expenditures	<u>\$1,437,422.77</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$1,437,422.77</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Budget Account No.: Fund 4011 Agency 721 Org. W010 Object 6545

Is Item Included in Current Budget? Yes No

Reporting Category N/A

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

One time capital expenditure from the user fees and balance brought forward.

C. Department Fiscal Review: Debra M West

III. REVIEW COMMENTS

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

John Smith 6/22/07
OFMB
6/22/07
CN 6/21/07
CN 6/21/07

Ann J. Jowett 6/25/07
Contracts Development and Control
6/29/07
This item complies with current County policies.

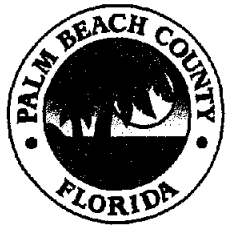
B. Legal Sufficiency:
James [Signature] 6/26/07
Assistant County Attorney

WVD will obtain a construction Bond prior to commencement of construction.

C. Other Department Review:

Department Director

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



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

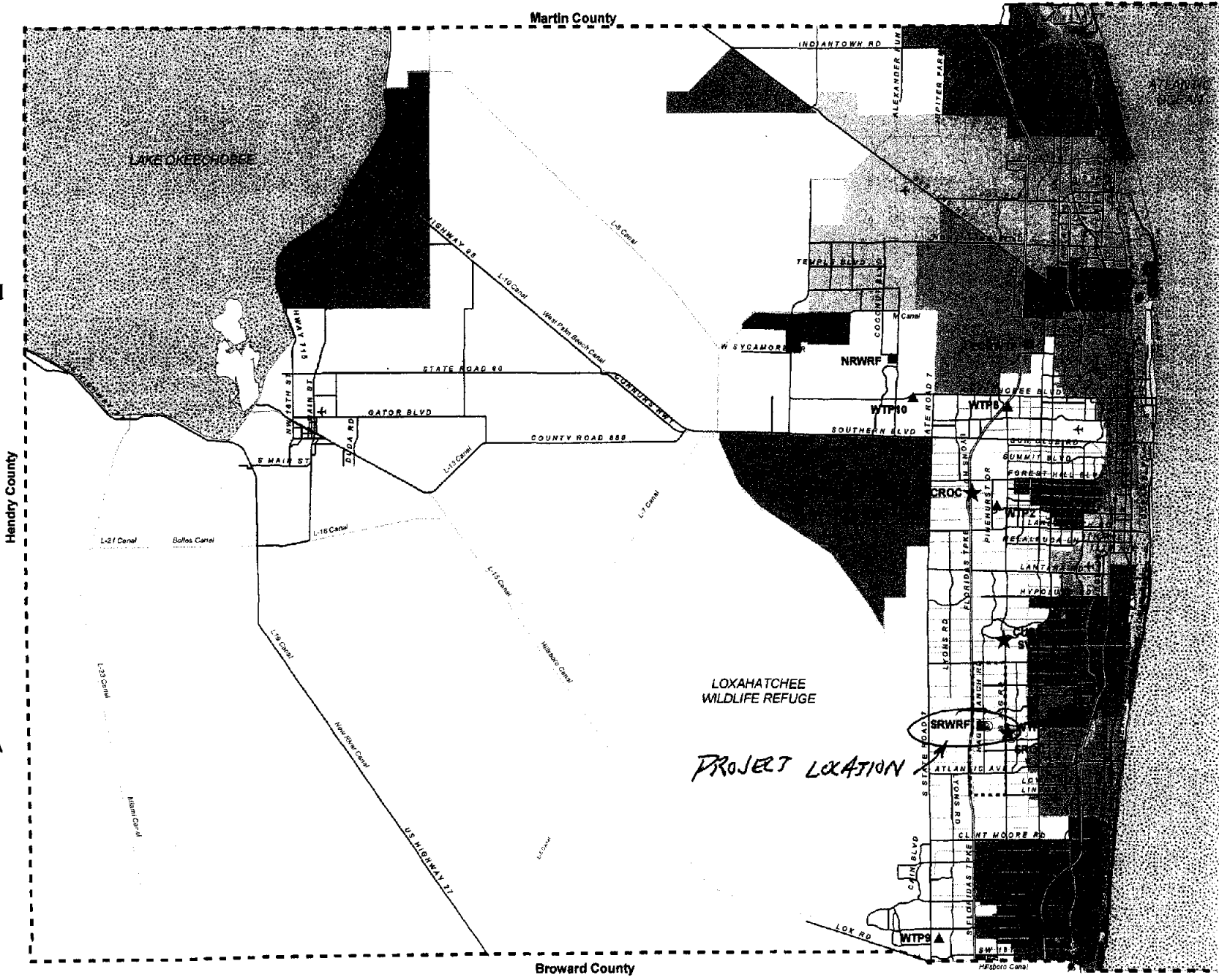
Attachment 1

Legend

- P.B.C.W.U.D. SA
- MANDATORY RECLAIMED SA
- - - - - Palm Beach County Limits
- ★ Administration
- Water Reclamation Facility
- ▲ Water Treatment Facility
- ⊕ Wetlands



NOT TO SCALE



WORK AUTHORIZATION NO. 2

Project No. WUD 07-151
Budget Line Item No. 4011-721-W010-6545

Project Title: Construction Services for the Hurricane Hardening – South Region Water Reclamation Facility (SRWRF)

District No.: 5 & 6

THIS WORK AUTHORIZATION # 2 to the Contract for Design – Build Services dated 9/12/06 (Resolution/Document R2006-1934). (Disaster Recovery Services Design-Build Contract), by and between Palm Beach County and the Design/Build entity identified herein, is for the Construction Services described in Item 3 of this Authorization. The Contract provides for 15% SBE participation overall. This Authorization includes 40.76% overall participation. The cumulative SBE participation, including this authorization is 40.22% overall, to date. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. CONSULTANT: CH2M HILL Constructors Inc.
2. ADDRESS: 9191 South Jamaica St., Englewood CO 80112.
3. Description of Services to be provided by the Consultant:
Construction services under Design-Build contract between Palm Beach County and CH2M Hill Inc.

See EXHIBIT "A".

4. Services completed by the Design-Build to date:

See EXHIBIT "B" and "C".

5. Design/Build shall begin work promptly on the requested services.
6. The compensation to be paid to the design-build for providing the requested services shall be:
 - A. Computation of time charges plus expenses, not to exceed **\$ 1,437,422.77**
7. This Work Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the design-build entity, the design-build entity shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

PROJECT NO. WUD 07-151

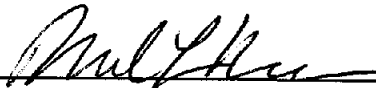
8. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 9/12/06 (R2006-1934) will remain in force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

CONSULTANT:

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

FIRM: CH2M HILL Constructors, Inc.

Signed: 

Signed: _____

Typed Name: Donald Klose

Typed Name: ADDIE L. GREENE, CHAIRPERSON

Title: CCI Regional DB Operations Manager



Date: 6/5/07

ATTEST:

Sharon R. Bock, Clerk & Comptroller

(Deputy Clerk)

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

(County Attorney)

EXHIBIT A

WORK AUTHORIZATION NO. 2

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
DESIGN BUILD SERVICES**

**SCOPE OF WORK
FOR
HURRICANE HARDENING – SOUTHERN REGION WATER RECLAMATION
FACILITY**

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Disaster Recover Services - Palm Beach County Utilities Department Project No. WUD 07-151 (CONTRACT) with CH2M HILL Constructors (Design-Build Entity) to provide services for various general activities (Disaster Recovery Services – Design Build Contract. This Work Authorization will be performed under that CONTRACT.

This Work Authorization encompasses providing services related to the Hurricane Hardening at the Southern Region Water Reclamation Facility.

BACKGROUND

Design-Build Entity has contracted with Palm Beach County to provide Design-Build services during and after storms. This Work Authorization will provide construction staff to perform Construction Services for the Southern Region Water Reclamation Facility.

SCOPE OF SERVICES

This project involves structural enhancements to PBCWUD SRWRF meant to improve survivability during a category 4 or 5 hurricane. The scope requires CH2M HILL to perform Construction Services for the Southern Region Water Reclamation Facility "Hurricane Hardening" at the following structures:

- Blower Building # 1
- Blower Building # 2
- Chlorine Building
- Pre-Treatment Bldg
- Sludge Pump Station # 1 & #2
- Solids Handling Bldg
- Electrical/Standby Power Building
- Anaerobic and Digester Bldg # 1 & # 2
- Aeration Basin-Not Included
- Clarifiers
- Cloth and Sand Filters-Not Included
- Effluent Pump Station

DESCRIPTION OF SERVICES

Design-Build Entity will provide the following services associated with the project:

TASK 1	Engineering Construction Submittal Review and Inspection Services
TASK 2	Construction Services

The following paragraphs describe the services to be provided under each task.

TASK 1 – Engineering Services for Construction Submittal Review and Inspection Services

Design-Build Entity will provide submittal review and inspection services during the course of this construction phase of the project.

TASK 2 – Construction Services

Design-Build Entity will provide construction services for the construction phase of the hurricane hardening at the SRWRF based on 100% drawings, S-1 thru S-40, developed as part of CSA # 2 by Bridge Design dated 5/1/2007 and Scope as stated on the attached Subcontractors quotations. This task will include only the following activities:

Blower Building # 1

- Install Roof Fan Cable Tie Downs
- Install Block Wall to Protect North Louvers

Blower Building # 2

- Install Roof Fan Cable Tie Downs
- Install (5) Accordion Shutters on North Louvers

Chlorine Building

- Install Rectifier Exhaust Hood Bracing and Hinged Cap (2)
- Install Roof Fan Cable Tie Downs
- Install (6) Accordion Shutters for Louvers on West Side of Building

Pre-Treatment Building

- Install Roof Fan Tie Downs
- Skylight Retrofit
- Replace (5) Exterior Windows L.M.I. at North Stairway
- Remove and Replace (3) Roof Doors w/ Hardware (Lockset to be reinstalled & Paint by Owner)
- Install (4) Accordion Shutters West Side 3rd floor

Sludge Pump Station # 1 & #2

- Install Roof Fan Cable Tie Downs
- Remove Skylights and Roof Over Openings
- Install (5) Accordion Shutters for Louvers

Solids Handling Building

- Install Roof Fan Cable Tie Down
- Remove Skylights and Roof Openings
- Replace Exterior Windows L.M.I. on North and South Sides Only
- Install Accordion Shutters over (10) exterior Louvers & Fixed panels at piping conflicts at southeast louver and North west louver.

Electrical/Standby Power Building

- Install Roof Fan Cable Tie Downs
- Install Block Walls (2) to Protect Intake Louvers

- Remove existing (4) Generator intake Louvers with (4) new Louvers to include steel supports as recommended by MGF. Removal and reinstallation of existing generator shroud is included.

Anaerobic Digester Building # 1 & #2

- Install Roof Fan Cable Tie Down
- Remove existing Louvers and install (30) new louvers With Steel Horizontal At Midpoint
- Install (28) Accordion Shutters over Louvers as per note 3.
- Remove and Block Up (12) Windows

Aeration Basin—Not Included

Clarifiers

- Install Cable Horizontal Bracing
- Install Clarifier Bridge Angle Connections for (8) Clarifiers

Cloth and Sand Filters-Not included

Effluent Pump Station

- Install Roof Fan Cable Tie Downs

EXCLUSIONS:

- Electrical Building FPL Electrical Vault Louvers
- Filters, Aeration Basins & Clarifiers Lighting Replacement
- Clarifier & Filter Lighting Support C6 Aluminum Channels
- Vertical Bracing for Overhead Coiling Doors on Aerobic Digesters and the South Door on the Pretreatment Building
- Damages to any underground utilities and any conduit extensions under Block Wall Footings
- Damages to Asphalt
- Additional Louver tap-cons
- Removal of Existing Chlorine Odor Control Piping
- Existing Over Head Door Retrofit
- Filter Bracing
- Existing Conditions of Facility
- Electrical, Pipe and Mechanical Conflicts
- Irrigation
- Erosion and Sediment Control

QUALIFICATIONS

- It is assumed that any permitting will be by others and all fees will be paid by the County and are not included in this scope of services.
- Refer to DRS D/B contact, dated September 12, 2006 for any claims and disputes.
- Vertical Bracing for Overhead Doors will be done for One OH door to determine Owner Acceptance prior to any manufacture and installation of the remaining Overhead Door Vertical Bracing for and additional costs of \$1,700.00.

The proposed GMP including the project schedule will be submitted to PBCWUD for review and formal authorization prior to proceeding with any further activities.

COMPENSATION

Compensation for Construction Service Work Authorization No. 1 of will not exceed amount of **\$1,437,422.77**. Attachment A provides the cost break down and the fee.

SCHEDULE

The scheduled Completion Date for the scope of work associated with WA #2 will be based on a Notice-To-Proceed issued no later June, 29 2007 and shall be Substantially Complete by February 28, 2008. The Final Completion date will be March 28, 2008.

CONTINGENCY

The GMP included a Design/Builder controlled allowance in the amount of Zero Dollars and No Cents (\$0.00) which is available for the Design/Builder's exclusive use for costs that are incurred in performing work that were unforeseen and not included in the GMP.

Such cost may include but not limited to buy out differentials, overtime, costs in correcting defective, damage or nonconforming work, design errors and omissions by sub-consultant and Subcontractor defaults. Any part of this contingency not used by the Design/Builder will be credited to the COUNTY at final project close-out.

The GMP also includes a COUNTY'S controlled allowance in the amount of Twenty Five Thousand Dollars and No Cents (\$25,000.00) which is available for the County's exclusive use. Any part of the contingency not used by the COUNTY will be credited to the COUNTY at final project close-out.

COUNTY'S OBLIGATIONS

Designated individuals who will be responsible to coordinate and schedule necessary facilities to facilitate construction and participate in testing for acceptance of the Work.

- Promptly review and approve all submittals within one calendar week and notify design consultant of approval.
- Assist in arranging for access to and make provisions for Design-Build Entity to enter upon public and private property as required by Design-Build Entity or one of its sub-consultants or subcontractors to perform its services.

SBE PARTICIPATION

As prescribed under I-3 (General Provisions) of the CONTRACT, SBE participation is included in Attachment C under this Authorization. The attached schedule #1 defines the SBE participation.

ATTACHMENT – A

Budget Summary

ATTACHMENT – B

Project Schedule

ATTACHMENT – C

SBE Schedules-1 & 2

ATTACHMENT – D

Location Map

ATTACHMENT A

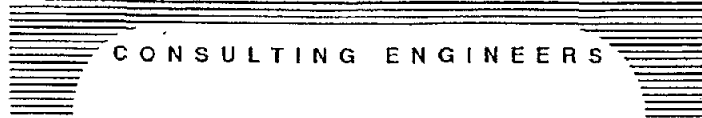
PALM BEACH COUNTY WUD SRWRF HURRICANE HARDENING

Budget Summary

WA #2

Task Description	Project Manager	Operations Manager	Administrative Assistant	Project Accounting	Contracts Admin.	Superintendent Health & Safety Mgr.	Client Service Manager Inc.
Labor Hours	727	56	125	66	155	164	12
Labor Bill Rate	85.41	103.31	44.94	31.74	50.83	81.22	158.82
Total Labor	\$62,093.07	\$5,785.36	\$5,617.50	\$2,094.84	\$7,878.65	\$13,320.08	\$1,905.84
Total Labor	\$98,695.34						
Expenses	\$11,000.00						
Subcontract Consulting Services(Bridge Design)	\$26,661.15						
Subcontract Roof Top Fan Units Tie Down Items(Crowther Roofing)	\$79,000.00						
Subcontract Skylights (Crowther Roofing)	\$147,200.00						
Subcontract Clarifier Cable Bracing & Angle Bridge connections(Crowther Roofing)	\$69,009.00						
Subcontract Window Replacement (Atlantic Window Systems)	\$74,230.00						
Subcontract Shutters (Savannah Trims, Inc.)	\$160,360.00						
Subcontract Louvers (Savannah Trims, Inc.)	\$398,980.00						
Subcontract Block Walls, Window Block Up, HMD Replacement (Myers Construction)	\$140,035.00						
Subcontract Overhead Door Vertical Bracing (Westgate Sheet Metal)	\$63,200.00						
10% Subcontractors Markup	\$115,867.52						
DB Allowance	\$0.00						
PBCWUD Allowance	\$25,000.00						
Sub Total	\$1,409,238.01						
Bond and Builders Risk Insurance	\$28,184.76						
WA #2 Total	\$1,437,422.77						

BRIDGE DESIGN ASSOCIATES, INC.



BRIAN C. RHEULT, P.E.
President

May 24, 2007

CH2M Hill
5801 Pelican Bay Blvd., Suite 505
Naples, Florida 34108

ATTENTION: Jeff Trammell
REGARDING: Southern Region Water Reclamation Facility
Construction Phase Services
Revised Proposal
PROJECT NO.: 07-522

Dear Jeff:

Pursuant to your request, Bridge Design Associates, Inc. can perform construction phase services at the above referenced project site.

The attached Exhibit "A" is an approximate manhour breakdown of construction phase services and commensurate fees. The following is an additional breakdown of services

2

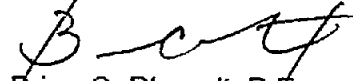
Work Authorization #1 - Supplement #1:

Roll-Down doors bracing inspection	
Louvers inspection	
CMU Wall inspection	
Skylight inspection	
Clarifier bracing inspection	
All Reports	
Window replacement inspection	
Fan Roof Tie-downs	\$26,661.15

If you have any questions, please give me a call.

Respectfully,

BRIDGE DESIGN ASSOCIATES, INC.


Brian C. Rheault, P.E.
President

BCR:kedS:\2007-Jobs\07-522 SRWRF Hurricane Hardening\Correspondence\pro 05-24-07 WO 2.wpd

2035 Vista Parkway, Suite 200 • West Palm Beach, Florida 33411
(561) 686-3660 • Fax: (561) 686-3664

BRIDGE DESIGN ASSOCIATES, INC.

SOUTHERN REGION WATER RECLAMATION FACILITY
 WORK AUTHORIZATION #2 SUPPLEMENT #4

May 23, 2007
 HOURLY BREAKDOWN OF SERVICES
 EXHIBIT "A"

ACTIVITY	PROJECT MANAGER	PROJECT ENGINEER	CADD TECH	FIELD REP/ E.I.	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$130.50	\$110.20	\$89.90	\$62.35		
BLOWER BUILDING#1						
Secondary Door Bracing Inspection (1 total)	3.0				3.0	\$391.50
CMU Wall Inspections (3 total)	3.0			6.0	9.0	\$765.60
Louvers/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Roof Fans (1 total)				3.0	3.0	\$187.05
Field Reports	3.0			4.0	7.0	\$640.90
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL BLOWER BUILDING #1						\$2,807.20
BLOWER BUILDING #2						
Secondary Door Bracing Inspection (1 total)	3.0				3.0	\$391.50
Louvers/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Roof Fans (1 total)				3.0	3.0	\$187.05
Field Reports	1.5			2.0	3.5	\$320.45
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL BLOWER BUILDING #2						\$1,721.15
CHLORINE BUILDING						
Louvers/Shutter & Exhaust Bracing Insp.(1 tot.)				3.0	3.0	\$187.05
Exhaust Removal Inspection (1 total)	3.0				3.0	\$391.50
Field Reports	1.0			1.0	2.0	\$192.85
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL CHLORINE BUILDING						\$1,406.50
EFFLUENT PUMP STATION						
Roof Fan (1 total)				3.0	3.0	\$187.05
Field Reports	0.5			1.0	1.5	\$127.60
SUBTOTAL EFFLUENT PUMP STATION						\$314.65
ELECTRICAL / STANDBY POWER BUILDING						
CMU Wall Inspections (3 total)	3.0			6.0	9.0	\$765.60
Louvers Inspection (1 total)				3.0	3.0	\$187.05
Roof-top (1 total)				3.0	3.0	\$187.05
Field Reports	2.0			4.0	6.0	\$510.40
Shop Drawing Review	3.0			8.0	11.0	\$890.30
SUBTOTAL ELECTRICAL / STANDBY POWER BUILDING						\$2,540.40

ACTIVITY	PROJECT MANAGER	PROJECT ENGINEER	CADD TECH	FIELD REP/ E.I.	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$130.50	\$110.20	\$89.90	\$62.35		

PRE-TREATMENT BUILDING

Louver/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Secondary Door Bracing Inspection (1 total)	3.0				3.0	\$391.50
Roof top fans & vents (1 total)				3.0	3.0	\$187.05
Skylight Inspection (3 total)	3.0			6.0	9.0	\$765.60
Field Reports	3.0			4.0	7.0	\$640.90
Shop Drawing Review	3.0			8.0	11.0	\$890.30
SUBTOTAL PRE-TREATMENT BUILDING						\$3,062.40

SLUDGE PUMP STATION #1

Louver/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Roof top fans (1 total)				3.0	3.0	\$187.05
Skylight removal Inspection (1 total)	3.0				3.0	\$391.50
Field Reports	2.0			2.0	4.0	\$385.70
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL SLUDGE PUMP STATION #1						\$1,786.40

SOLIDS HANDLING BUILDING

Secondary Door Bracing Inspection (2 total)	3.0			3.0	6.0	\$578.55
Louver/Window/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Roof top fans (1 total)				3.0	3.0	\$187.05
Skylight removal Inspection (2 total)	3.0			3.0	6.0	\$578.55
Field Reports	2.0			4.0	6.0	\$510.40
Shop Drawing Review				6.0	6.0	\$374.10
SUBTOTAL SOLIDS HANDLING BUILDING						\$2,415.70

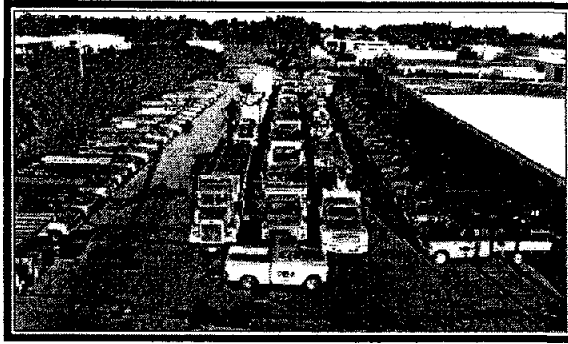
ANOEROBIC AND DIGESTOR BUILDING #1

Secondary Door Bracing Inspection (1 total)				3.0	3.0	\$187.05
Louver/Window/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Window Removal and New CMU wall (1 total)				3.0	3.0	\$187.05
Roof top fans Inspection (1 total)				3.0	3.0	\$187.05
Field Reports	1.5			4.0	5.5	\$445.15
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL ANOEROBIC AND DIGESTOR BUILDING #1						\$1,828.45

ACTIVITY	PROJECT MANAGER	PROJECT ENGINEER	CADD TECH	FIELD REP/ E.I.	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$130.50	\$110.20	\$89.90	\$62.35		
ANOEROBIC AND DIGESTOR BUILDING #2						
Secondary Door Bracing Inspection (1 total)				3.0	3.0	\$187.05
Louver/Window/Shutter Inspection (1 total)				3.0	3.0	\$187.05
Roof top fans Inspection (1 total)				3.0	3.0	\$187.05
Window Removal and New CMU wall (1 total)				3.0	3.0	\$187.05
Field Reports	1.5			4.0	5.5	\$445.15
Shop Drawing Review	2.0			6.0	8.0	\$635.10
SUBTOTAL ANOEROBIC AND DIGESTOR BUILDING #2						\$1,828.45
CLARIFIERS						
Bracing Inspection (8 clarifiers=4 inspections)	3.0			9.0	12.0	\$952.65
Field Reports	1.5			3.0	4.5	\$382.80
Shop Drawing Review	1.0			2.0	3.0	\$255.20
SUBTOTAL CLARIFIERS						\$1,590.65
MISCELLANEOUS						
Final Inspections	8.0			8.0	16.0	\$1,542.80
Meetings	8.0			8.0	16.0	\$1,542.80
Final Report	2.0			4.0	6.0	\$510.40
Signed & Sealed Drawings for Permitting	2.0				2.0	\$261.00
Drawing revisions for Permitting	6.0		8.0		14.0	\$1,502.20
SUBTOTAL MISCELLANEOUS						\$5,359.20
TOTAL MANHOURS	97.5	0.0	8.0	212.0	292.0	
DIRECT LABOR COST	\$12,723.75	\$0.00	\$719.20	\$13,218.20		\$26,661.15

CROWTHER Cool Check[®]

A/C Upgrade Plan



RESOURCES TO DO THE JOB -- ANY JOB!

A/C Upgrade Plan

Prepared for:

CH2MHILL

This proposal is figured with 3/8-inch Stainless Steel, PVC Coated, UV Protectant, Wire Rope.

Ft. Myers: (239) 337-1600 ♦ Naples: (239) 566-1007 ♦ Port Charlotte: (941) 764-9800 ♦ Sarasota: (941) 343-9600

Crowther "Cool Check" A/C Upgrade Plan

May 17, 2007

**Owner / Agent
Address**

CH2MHill
2550 Well Field Road
Bonita Springs, FL 34135

**Name of Building
Address**

Southern Regional Reclamation Center
12751 Hagen Ranch Road
Boynton Beach, FL 33437

**Contact Person
Phone #
Fax #**

Jeff Trammel
(239) 947-2300 (239) 913-8564
(239) 947-2649

Crowther Roofing & Sheet Metal of Florida, Inc.

2543 Rockfill Road, Fort Myers, Florida 33916
Phone: (239) 337-1600 Fax: (239) 337-0878

2900 South Horseshoe Dr., Naples, Florida 34109
Phone: (239) 649-5006 Fax: (239) 649-6006

7321 International Place, Sarasota, Florida 34240
Phone: (941) 343-9600 Fax: (941) 371-8969

Toll Free: 1-800-741-3114

www.crowther.net <http://www.crowther.net/> ♦ www.roofcheck.net

Florida Contractors License Number: CAC 056951

Upgrades:

TIE DOWNS FOR FANS & VENTS	
Solid Handling Bldg. 1-Fan	\$ 1,995
Pretreatment Bldg. 3-Fans w chem curbs.	\$ 7,385
Pretreatment Bldg. 2-Vent Fans.	\$ 4,070
Pretreatment Bldg. 4-Vents	\$ 7,980
Blower Bldg. #1 3-Fans	\$ 5,985
Blower Bldg. #2 6-Fans	\$ 11,970
Electrical Bldg. 2-Fans	\$ 4,980
Sludge Bldg #1 3-Fans	\$ 5,985
Sludge Bldg #2 3-Fans	\$ 5,985
Digester Bldg #1 1-Fan	\$ 1,995
Digester Bldg #2 1-Fan	\$ 1,995
Rectifier Hoods & Hinged Cap 2-Units	\$ 2,200
Chlorine Bldg 4-Fans	\$ 7,980
Chlorine Bldg. 1-Fan	\$ 4,305
Effluent Bldg. 2-Fans	\$ 4,190
TOTAL	\$ 79,000

This proposal is for the Tie downs of fans and Vents. Engineering provided through CH2MHill.

Exclusions:

- ❖ Crowther will not be liable for any incidental or consequential damages to the building structure or its contents, loss of time, profit or inconvenience.
- ❖ Humidity issues, due to down time of your air conditioning system, can lead to the proliferation of mold on interior surfaces. In performing air conditioning, maintenance or repair services under this agreement, it is understood and agreed that Crowther and Crowther's insurance carrier disclaim liability for mold problems and will not be held responsible for any direct, incidental or consequential damages, including health problems attributable to past, present or future humidity and water intrusion that may or may not be caused by associated mold, fungus, mildew, or algae growth.

Additions and/or Alterations to Agreement:

Owner, without invalidating the agreement, may order changes in the work consisting of additions to the agreement sum and the agreement time being adjusted accordingly. Such changes in the work shall be authorized by written change order signed by Owner and Crowther.

Claims and Disputes:

All claims or disputes between Crowther and Owner, arising out of or relating to this agreement or the breach thereof, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rule of the American Arbitration Association currently in effect. Notice of the demand for arbitration shall be filed in writing with the other party to this agreement and with the American Arbitration Association and shall be made within a reasonable time after the dispute has arisen. The award rendered by the arbitrator(s) shall be final, and judgement may be entered upon it in accordance with the applicable law in any court having jurisdiction thereof.

Safety and Insurance:

- ❖ Crowther shall be responsible for initiating, maintaining and supervising safety precautions in connection with the performance of this agreement.
- ❖ Crowther shall provide proper insurance and provide Owner with a copy of the insurance certificate.

Acknowledgement:

Owner acknowledges that the work being performed by Crowther, pursuant to this agreement, is continuous throughout the time period of this agreement. Crowther's lien rights pursuant to Chapter 713, Florida Statutes, for labor and material furnished in performing the services shall not expire until 90 days after the expiration of the agreement.

It is further understood and acknowledged by Owner that Crowther is in direct privity with CH2MHill, and is not required to file notice to Owner regarding work performed for each A/C system and /or building being serviced by this agreement.

Payment Schedule:

Price for System Upgrades as described above:

\$ 79,000

Progress payments with final payment due within 30 days of completion of the project.

Respectfully Submitted:

Accepted:

 Robbie L. Savage
 Survey and Analysis
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822

 Authorized Signature
 As Agent and/or on Behalf of the Owner

 Roger LePage
 Roof Check Sales and Marketing
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822
 May 17, 2007

Printed Name

Title

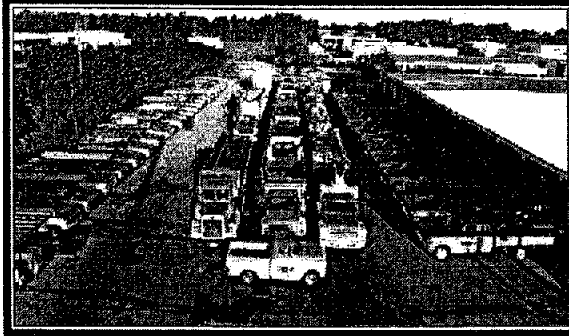
Date

Date

Note: This proposal, if not accepted within 30 days, is void.

CROWTHER Cool Check[®]

A/C Upgrade Plan



RESOURCES TO DO THE JOB -- ANY JOB!

A/C Upgrade Plan

Prepared for:

CH2MHILL

Proposal for the Skylights

Ft. Myers: (239) 337-1600 ♦ Naples: (239) 566-1007 ♦ Port Charlotte: (941) 764-9800 ♦ Sarasota: (941) 343-9600

Crowther

“Cool Check”

A/C Upgrade Plan

May 3, 2007

**Owner / Agent
Address**

CH2MHill
2550 Well Field Road
Bonita Springs, FL 34135

**Name of Building
Address**

Southern Regional Reclamation Center
12751 Hagen Ranch Road
Boynton Beach, FL 33437

**Contact Person
Phone #
Fax #**

Jeff Trammel
(239) 947-2300 (239) 913-8564
(239) 947-2649

Crowther Roofing & Sheet Metal of Florida, Inc.

2543 Rockfill Road, Fort Myers, Florida 33916
Phone: (239) 337-1600 Fax: (239) 337-0878

2900 South Horseshoe Dr., Naples, Florida 34109
Phone: (239) 649-5006 Fax: (239) 649-6006

7321 International Place, Sarasota, Florida 34240
Phone: (941) 343-9600 Fax: (941) 371-8969

Toll Free: 1-800-741-3114

www.crowther.net<http://www.crowther.net/> ♦ www.roofcheck.net

Florida Contractors License Number: CAC 056951

Upgrades:

SKYLIGHTS

Solid Handling Bldg. 8 Skylights Remove and Roof over openings.	\$ 55,200.00
Sludge Bldg #1. 2 Skylights Remove and Roof over openings.	\$ 13,400.00
Sludge Bldg #2. 2 Skylights Remove and Roof over openings.	\$ 13,400.00
Pretreatment Bldg. Large Skylight to remove glass and rebuild.	\$ 65,200.00
TOTAL	\$ 147,200.00

Skylight work will be done to the Engineering Specifications provided through CH2MHill.

Exclusions:

- ❖ Crowther will not be liable for any incidental or consequential damages to the building structure or its contents, loss of time, profit or inconvenience.
- ❖ Humidity issues, due to down time of your air conditioning system, can lead to the proliferation of mold on interior surfaces. In performing air conditioning, maintenance or repair services under this agreement, it is understood and agreed that Crowther and Crowther's insurance carrier disclaim liability for mold problems and will not be held responsible for any direct, incidental or consequential damages, including health problems attributable to past, present or future humidity and water intrusion that may or may not be caused by associated mold, fungus, mildew, or algae growth.

Additions and/or Alterations to Agreement:

Owner, without invalidating the agreement, may order changes in the work consisting of additions to the agreement sum and the agreement time being adjusted accordingly. Such changes in the work shall be authorized by written change order signed by Owner and Crowther.

Claims and Disputes:

All claims or disputes between Crowther and Owner, arising out of or relating to this agreement or the breach thereof, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rule of the American Arbitration Association currently in effect. Notice of the demand for arbitration shall be filed in writing with the other party to this agreement and with the American Arbitration Association and shall be made within a reasonable time after the dispute has arisen. The award rendered by the arbitrator(s) shall be final, and judgement may be entered upon it in accordance with the applicable law in any court having jurisdiction thereof.

Safety and Insurance:

- ❖ Crowther shall be responsible for initiating, maintaining and supervising safety precautions in connection with the performance of this agreement.
- ❖ Crowther shall provide proper insurance and provide Owner with a copy of the insurance certificate.

Acknowledgement:

Owner acknowledges that the work being performed by Crowther, pursuant to this agreement, is continuous throughout the time period of this agreement. Crowther's lien rights pursuant to Chapter 713, Florida Statutes, for labor and material furnished in performing the services shall not expire until 90 days after the expiration of the agreement.

It is further understood and acknowledged by Owner that Crowther is in direct privity with CH2MHill, and is not required to file notice to Owner regarding work performed for each A/C system and /or building being serviced by this agreement.

Payment Schedule:

Price for System Upgrades as described above:

\$ 147,200

Progress payments with final payment due within 30 days of completion of the project.

Respectfully Submitted:

Accepted:

 Robbie L. Savage
 Survey and Analysis
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822

 Authorized Signature
As Agent and/or on Behalf of the Owner

Printed Name

 Roger LePage
 Roof Check Sales and Marketing
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822
 May 3, 2007

Title

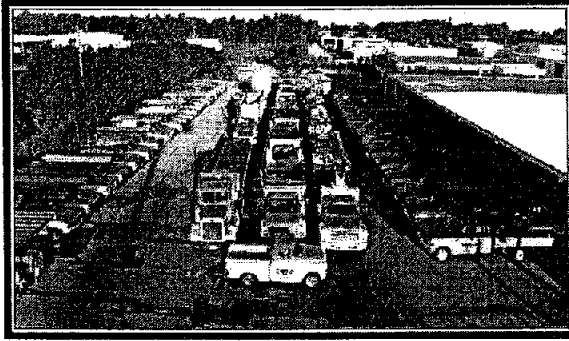
Date

Date

Note: This proposal, if not accepted within 30 days, is void.

CROWTHER Cool Check[®]

A/C Upgrade Plan



RESOURCES TO DO THE JOB -- ANY JOB!

A/C Upgrade Plan

Prepared for:

CH2MHILL

This proposal is figured with 1/2-inch Stainless Steel, Wire Rope.

Ft. Myers: (239) 337-1600 ♦ Naples: (239) 566-1007 ♦ Port Charlotte: (941) 764-9800 ♦ Sarasota: (941) 343-9600

Crowther

“Cool Check”

A/C Upgrade Plan

May 3, 2007

**Owner / Agent
Address**

CH2MHill
2550 Well Field Road
Bonita Springs, FL 34135

**Name of Building
Address**

Southern Regional Reclamation Center
12751 Hagen Ranch Road
Boynton Beach, FL 33437

**Contact Person
Phone #
Fax #**

Jeff Trammel
(239) 947-2300 (239) 913-8564
(239) 947-2649

Crowther Roofing & Sheet Metal of Florida, Inc.

2543 Rockfill Road, Fort Myers, Florida 33916
Phone: (239) 337-1600 Fax: (239) 337-0878

2900 South Horseshoe Dr., Naples, Florida 34109
Phone: (239) 649-5006 Fax: (239) 649-6006

7321 International Place, Sarasota, Florida 34240
Phone: (941) 343-9600 Fax: (941) 371-8969

Toll Free: 1-800-741-3114

www.crowther.net <http://www.crowther.net/> ♦ www.roofcheck.net

Florida Contractors License Number: CAC 056951

Upgrades:

TIE DOWNS FOR EIGHT CLARIFIER TANKS.

TOTAL \$ 59,729.00

This proposal covers the eight Clarifier Tanks with ½ -inch Stainless Steel Wire Rope. This is a revised proposal due to the increase of ½ wire rope materials increase.

Exclusions:

- ❖ Crowther will not be liable for any incidental or consequential damages to the building structure or its contents, loss of time, profit or inconvenience.
- ❖ Humidity issues, due to down time of your air conditioning system, can lead to the proliferation of mold on interior surfaces. In performing air conditioning, maintenance or repair services under this agreement, it is understood and agreed that Crowther and Crowther's insurance carrier disclaim liability for mold problems and will not be held responsible for any direct, incidental or consequential damages, including health problems attributable to past, present or future humidity and water intrusion that may or may not be caused by associated mold, fungus, mildew, or algae growth.

Additions and/or Alterations to Agreement:

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Claims and Disputes:

All claims or disputes between Crowther and Owner, arising out of or relating to this agreement or the breach thereof, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rule of the American Arbitration Association currently in effect. Notice of the demand for arbitration shall be filed in writing with the other party to this agreement and with the American Arbitration Association and shall be made within a reasonable time after the dispute has arisen. The award rendered by the arbitrator(s) shall be final, and judgement may be entered upon it in accordance with the applicable law in any court having jurisdiction thereof.

Safety and Insurance:

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- ❖ Crowther shall provide proper insurance and provide Owner with a copy of the insurance certificate.

Acknowledgement:

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It is further understood and acknowledged by Owner that Crowther is in direct privity with CH2MHill, and is not required to file notice to Owner regarding work performed for each A/C system and /or building being serviced by this agreement.

Payment Schedule:

Price for System Upgrades as described above:

\$ 59,729

Progress payments with final payment due within 30 days of completion of the project.

Respectfully Submitted:

Accepted:

 Robbie L. Savage
 Survey and Analysis
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822

 Authorized Signature
 As Agent and/or on Behalf of the Owner

 Roger LePage
 Roof Check Sales and Marketing
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822
 May 3, 2007

Printed Name

Title

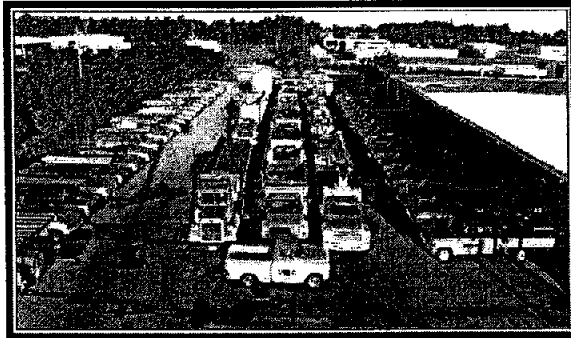
Date

Date

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CROWTHER Cool Check[®]

A/C Upgrade Plan



RESOURCES TO DO THE JOB -- ANY JOB!

A/C Upgrade Plan

Prepared for:

CH2MHILL

Clarifier Bridge Connections.

Ft. Myers: (239) 337-1600 ♦ Naples: (239) 566-1007 ♦ Port Charlotte: (941) 764-9800 ♦ Sarasota: (941) 343-9600

Crowther

“Cool Check”

A/C Upgrade Plan

May 3, 2007

**Owner / Agent
Address**

CH2MHill
2550 Well Field Road
Bonita Springs, FL 34135

**Name of Building
Address**

Southern Regional Reclamation Center
12751 Hagen Ranch Road
Boynton Beach, FL 33437

**Contact Person
Phone #
Fax #**

Jeff Trammel
(239) 947-2300 (239) 913-8564
(239) 947-2649

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7321 International Place, Sarasota, Florida 34240
Phone: (941) 343-9600 Fax: (941) 371-8969

Toll Free: 1-800-741-3114

www.crowther.net <http://www.crowther.net/> ♦ www.roofcheck.net

Florida Contractors License Number: CAC 056951

Upgrades:**CLARIFIER BRIDGE CONNECTIONS.**

Eight Clarifiers with 4 Angles Each.

TOTAL \$ 9,280.00

This proposal is for the L Brackets per Engineering Specifications provided through CH2MHill.

Exclusions:

- ❖ Crowther will not be liable for any incidental or consequential damages to the building structure or its contents, loss of time, profit or inconvenience.
- ❖ Humidity issues, due to down time of your air conditioning system, can lead to the proliferation of mold on interior surfaces. In performing air conditioning, maintenance or repair services under this agreement, it is understood and agreed that Crowther and Crowther's insurance carrier disclaim liability for mold problems and will not be held responsible for any direct, incidental or consequential damages, including health problems attributable to past, present or future humidity and water intrusion that may or may not be caused by associated mold, fungus, mildew, or algae growth.

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It is further understood and acknowledged by Owner that Crowther is in direct privity with CH2MHill, and is not required to file notice to Owner regarding work performed for each A/C system and /or building being serviced by this agreement.

Payment Schedule:

Price for System Upgrades as described above:

\$ 9,280.00

Progress payments with final payment due within 30 days of completion of the project.

Respectfully Submitted:

Accepted:

 Robbie L. Savage
 Survey and Analysis
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822

 Authorized Signature
As Agent and/or on Behalf of the Owner

 Roger LePage
 Roof Check Sales and Marketing
 Crowther Roofing & Sheet Metal of Florida, Inc.
 Florida Contractor's License Number CCC 039822
 May 3, 2007

Printed Name

Title

Date

Date

Note: This proposal, if not accepted within 30 days, is void.



Lic# CBC1252048

8080 Belvedere Road, Suite # 4
West Palm Beach, FL 33411
(561)793-2530 ~ (866)-339-8568 ~ Fax (561)793-2404

Friday, May 04, 2007

REVISED PROPOSAL

v2.0 5-4-07
Page 1 of 2

Customer: CH2MHill Constructors, Inc.
25500 Well Field Road
Bonita Springs, FL 34135

Contact: Jeff Trammell, Senior Project Manager
V. 239-947-2300
F. 239-947-2649
M. 239-913-8564
E. jeff.trammell@ch2m.com

Project: Window replacement, Water Reclamation Facility
Location: Palm Beach County Water Utilities
Waste Water Reclamation Facility
12751 Hagen Ranch Road
Boynton Beach, FL 33437

Dear Mr. Trammell,

Thank you for the opportunity to offer a proposal for window replacement as part of the hurricane hardening project for the south regional water reclamation facility.

We propose to provide all necessary materials and install to Florida building code the following items as per our initial on-site evaluation and plans provided.

Storefront type window units fixed frame, impact resistant (LMI), frame color white, glazing tint standard grey.

Proposed product to be manufactured by Arch aluminum, model IW3000 aluminum framing, to be glazed with 9/16" impact rated laminated glass, consisting of 1/4" heat strengthened - .090" PVB - 1/4" heat strengthened also manufactured by Arch aluminum. All Glazing will be permanently etched indicating manufacturer and glass type. Proposed product and configuration will have a design pressure rated at +87 / -87 psf based on ASTM E1300-98. As per NOA no. 05-0906.05 attached.

Scope of this proposal includes the retrofit replacement within two separate structures at the above mentioned facility;

"Solids handling building" → Replace a total of (16) similar units each with an overall size of 210" wide x 60" high, each consisting of 1 row of 6 equal D.L.O. (35" x 60" nominal size each).

"Pre-Treatment Building" → Replace a total of (5) similar units each with an overall size of 59" wide x 29" high, each consisting of 1 fixed lite.



Lic# CBC1252048
8080 Belvedere Road, Suite # 4
West Palm Beach, FL 33411
(561)793-2530 ~ (866)-339-8568 ~ Fax (561)793-2404

Friday, May 04, 2007

REVISED PROPOSAL

v2.0 5-4-07
Page 2 of 2

All products will properly calked and sealed as per NOA and Florida building code.

We will remove from property and properly dispose of all materials removed and any construction debris generated during the retrofit process.

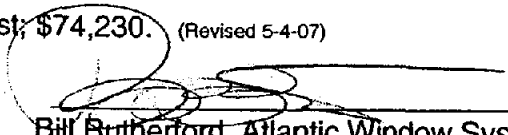
We will patch and paint to match any stucco damaged during the retrofit process.

All work will be performed by our direct employees, we do not use subcontractors.

We will provide all necessary construction materials and equipment.

Total project cost: \$74,230. (Revised 5-4-07)

Proposal offered


Bill Rutherford, Atlantic Window Systems

Date

5/4/07

Acceptance of proposal

Jeff Trammell, Senior Project Manager

Date

I have verified with the manufacturer that production lead time is expected to be 4 to 6 weeks from our conformation. We would plan for and schedule to begin the installation process immediately thereafter.

If you have any questions or need any additional information please feel free to contact me at any time.

Thank you very much and best regards,

Bill Rutherford
Atlantic Window Systems
8080 Belvedere Road, Suite # 4
West Palm Beach, FL 33411
voice- 561-793-2530 ex-218
voice- 866-339-8568 ex-218
fax- 561-793-2404
email- billr@atlanticwindowssystems.com
web- www.atlanticwindowssystems.com



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

Arch Aluminum & Glass Co., Inc.
10200 NW 67 Street
Tamarac, FL 33321

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Impact Wall 3000/L-3000" Aluminum Storefront System-L.M.I.

APPROVAL DOCUMENT: Drawing No. 98-42, titled "Impact wall 3000" Alum Window Wall Sys", sheets 1 through 11 of 11, dated 12/09/98 and last revised on 11/08/05, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 03-1211.08 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 05-0906.05
Expiration Date: March 05, 2009
Approval Date: January 05, 2006
Page 1

Arch Aluminum & Glass Co., Inc.

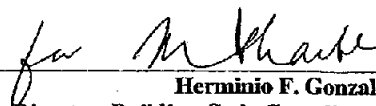
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 98-42, titled "Impact wall 3000" Alum Window Wall Sys", sheets 1 through 11 of 11, dated 12/09/98 and last revised on 11/08/05, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94(Structural only)
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum storefront system, prepared & issued by Fenestration Testing Laboratory, Test Report No. 3398 (FTL-03175) dtd December 10, 2003, signed & sealed by Edmundo J. Largaespada, P.E. "Submitted under NOA# 03-1211.08"
2. Test reports on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum Window Wall system, prepared & issued by Fenestration Testing Laboratory, Test Report No. 3363 (FTL-02180) dated April 24, 2003, signed and sealed by Edmundo J. Largaespada, P.E. "Submitted under NOA# 03-1211.08"
3. Test reports on 1) Large Missile Impact Test PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of an aluminum window wall system marked-up by Fenestration Testing Laboratory, Inc. Test Reports Nos. FTL-3326 (01088), report dated January 09, 2002, signed and sealed by Luis Antonio Figueredo, P.E. "Submitted under NOA# 03-1211.08"
4. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-1010, dated Oct. 25, 1994, signed and sealed by Yamil Gerardo Kuri, P.E. "Submitted under NOA# 03-1211.08"



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 05-0906.05
Expiration Date: March 05, 2009
Approval Date: January 05, 2006

Arch Aluminum & Glass Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-2221, dated Dec. 9, 1998, signed and sealed by Gilbert Diamond, P.E.
"Submitted under NOA# 03-1211.08"

C CALCULATIONS

1. Revised Anchor Calculations and structural analysis, prepared by AL- Farooq Corporation, dated August 16th, 2005 and signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02
No 1/3 stress increase used in anchors into masonry or steel substrate.
2. Anchor calculations and structural analysis, prepared by Al-Farooq Corp., dated January 20, 2004 and last revised on 02/02/2004, signed and sealed by Dr. Humayoun Farooq, P.E.
"Submitted under NOA# 03-1211.08"

D. QUAALITY ASSURANCE BY:

1. Miami-Dade County Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

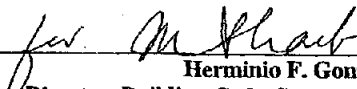
1. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Polyvinyl Butyral Interlayer Saflex/ Keep SafeMax", expiring on 05/21/2006.
2. Notice of Acceptance No. **03.0421.01** issued to Solutia, Inc. for "Saflex HP a polyvinyl butyral interlayer for lamination of glass", expiring on 04/14/08.

F. STATEMENTS

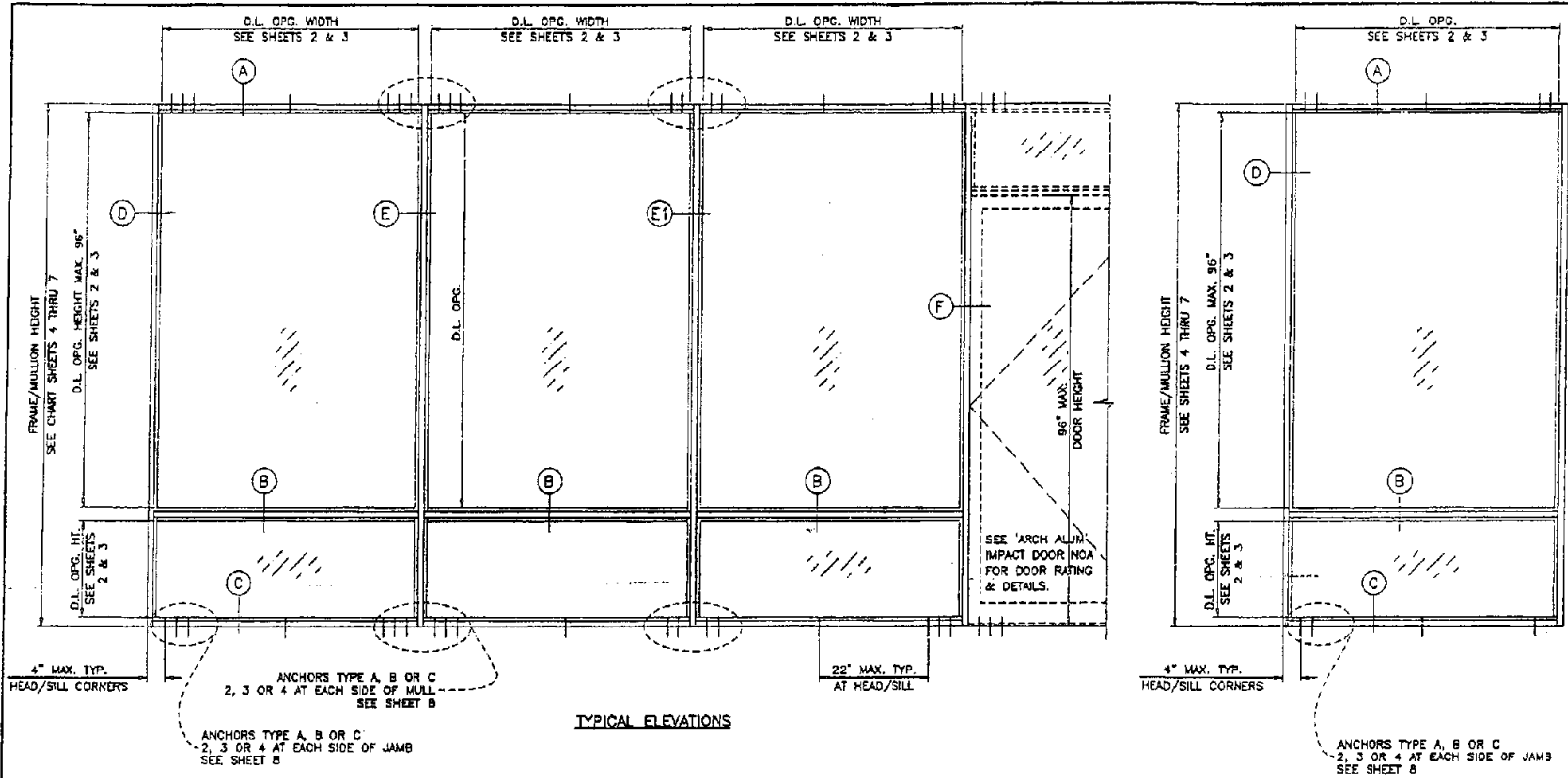
1. Statement letter of conformance and "No financial interest", dated 08/16/05, signed and sealed by Humayoun Farooq, P.E.
2. Laboratory compliance letter for Test Report no. FTL-3326, issued by Fenestration Testing Laboratory, Inc., dated January 23, 2003, signed and sealed by Edmundo Largaespada, P.E.
"Submitted under NOA# 03-1211.08"

G. OTHER

1. Letter from consultant, dated 11/14/05, stating that the product is in compliance with the Florida Building Code (FBC).
2. Notice of Acceptance No. **03-1211.08**, issued to Arch Aluminum & Glass Co., Inc. for their "Series "Impact Wall 3000" Aluminium Storefront System-Impact", approved on 02/26/04 and expiring on 03/05/09.



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 05-0906.05
Expiration Date: March 05, 2009
Approval Date: January 05, 2006



TYPICAL ELEVATIONS

**IMPACT WALL 3000/L-3000 ALUMINUM WINDOW WALL SYSTEM
INSIDE OR OUTSIDE GLAZED**

WINDOW WALL SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS NOT REQUIRED.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 2 & 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4 THRU 7 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
in compliance with the Florida Building Code
Amendment No. 05-0906.05
Implementation Date 03/12/09
By: *[Signature]*
Miami Dade Product Control Division

Eng. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3335
NOV 08 2005

a f c

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
STORE 98-42/A

IMPACT WALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th Street
TAMARAC, FL. 33321
TEL. (800) 432-8132 FAX. (954) 724-0293

Revisions:	no.	date	description
	1	01.15.04	ISSUED FOR PERMIT
	2	02.22.04	REV. PER ARCH COMMENTS
	3	07.22.04	GENERAL REWORK
	4	11.28.05	D.L. OR. REV.

date: 12-09-05
scale: 1/2"=1'-0"
des. by: HAMD
chk. by:

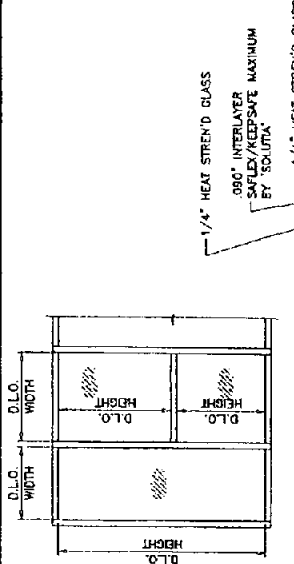
drawing no.
98-42
sheet 1 of 11

AL-FAROOG CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 STORE 98-42A

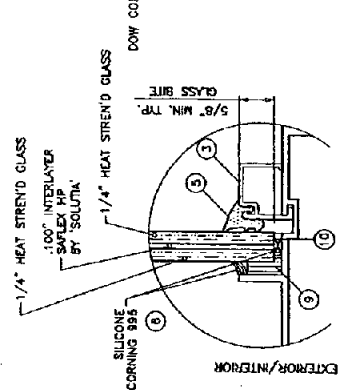
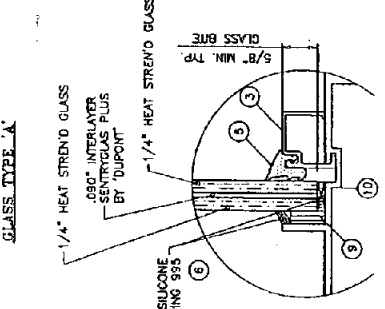
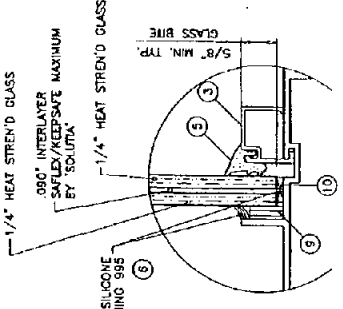
ARCH ALUMINUM & GLASS L.C.
 10200 N.W. 67th Street
 TAMPA, FL 33621
 TEL (800) 432-8132 FAX (954) 724-0293

NO DATE BY DESCRIPTION
 10/15/04 GENERAL REVISION
 02/22/04 CHECK REVISION COMMENTS
 02/22/04 CHECK REVISION
 11/08/03 NO CHANGE THIS SHEET

DATE: 12-08-98
 DRAWING NO: 98-42
 SHEET 3 OF 11



DESIGN LOAD CAPACITY - PSF BASED ON ASTM E1300-02 (3 SEC. GLTS)				DESIGN LOAD CAPACITY - PSF BASED ON ASTM E1300-02 (3 SEC. GLTS)				DESIGN LOAD CAPACITY - PSF BASED ON ASTM E1300-02 (3 SEC. GLTS)							
NOMINAL DIMS.		GLASS		NOMINAL DIMS.		GLASS		NOMINAL DIMS.		GLASS					
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	TYPE 'A'	EXT. (+) INT. (-)	TYPE 'B'	EXT. (+) INT. (-)	TYPE 'C'	D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	TYPE 'A'	EXT. (+) INT. (-)	TYPE 'B'	EXT. (+) INT. (-)	TYPE 'C'
36"	36"	87.0	100.0	100.0	100.0	100.0	100.0	36"	36"	87.0	100.0	100.0	100.0	100.0	100.0
38"	38"	87.0	100.0	100.0	100.0	100.0	100.0	38"	38"	87.0	100.0	100.0	100.0	100.0	100.0
42"	42"	87.0	100.0	100.0	100.0	100.0	100.0	42"	42"	87.0	100.0	100.0	100.0	100.0	100.0
45"	45"	87.0	100.0	100.0	100.0	100.0	100.0	45"	45"	87.0	100.0	100.0	100.0	100.0	100.0
48"	48"	87.0	100.0	100.0	100.0	100.0	100.0	48"	48"	87.0	100.0	100.0	100.0	100.0	100.0
51"	51"	87.0	100.0	100.0	100.0	100.0	100.0	51"	51"	87.0	100.0	100.0	100.0	100.0	100.0
54"	54"	87.0	100.0	100.0	100.0	100.0	100.0	54"	54"	87.0	100.0	100.0	100.0	100.0	100.0
57"	57"	87.0	100.0	100.0	100.0	100.0	100.0	57"	57"	87.0	100.0	100.0	100.0	100.0	100.0
60"	60"	87.0	100.0	100.0	100.0	100.0	100.0	60"	60"	87.0	100.0	100.0	100.0	100.0	100.0
63"	63"	87.0	100.0	100.0	100.0	100.0	100.0	63"	63"	87.0	100.0	100.0	100.0	100.0	100.0
66"	66"	87.0	100.0	100.0	100.0	100.0	100.0	66"	66"	87.0	100.0	100.0	100.0	100.0	100.0
68"	68"	87.0	100.0	100.0	100.0	100.0	100.0	68"	68"	87.0	100.0	100.0	100.0	100.0	100.0
72"	72"	87.0	100.0	100.0	100.0	100.0	100.0	72"	72"	87.0	100.0	100.0	100.0	100.0	100.0
36"	36"	87.0	100.0	100.0	100.0	100.0	100.0	36"	36"	87.0	100.0	100.0	100.0	100.0	100.0
38"	38"	87.0	100.0	100.0	100.0	100.0	100.0	38"	38"	87.0	100.0	100.0	100.0	100.0	100.0
42"	42"	87.0	100.0	100.0	100.0	100.0	100.0	42"	42"	87.0	100.0	100.0	100.0	100.0	100.0
45"	45"	87.0	100.0	100.0	100.0	100.0	100.0	45"	45"	87.0	100.0	100.0	100.0	100.0	100.0
48"	48"	87.0	100.0	100.0	100.0	100.0	100.0	48"	48"	87.0	100.0	100.0	100.0	100.0	100.0
51"	51"	87.0	100.0	100.0	100.0	100.0	100.0	51"	51"	87.0	100.0	100.0	100.0	100.0	100.0
54"	54"	87.0	100.0	100.0	100.0	100.0	100.0	54"	54"	87.0	100.0	100.0	100.0	100.0	100.0
57"	57"	87.0	100.0	100.0	100.0	100.0	100.0	57"	57"	87.0	100.0	100.0	100.0	100.0	100.0
60"	60"	87.0	100.0	100.0	100.0	100.0	100.0	60"	60"	87.0	100.0	100.0	100.0	100.0	100.0
63"	63"	87.0	100.0	100.0	100.0	100.0	100.0	63"	63"	87.0	100.0	100.0	100.0	100.0	100.0
66"	66"	87.0	100.0	100.0	100.0	100.0	100.0	66"	66"	87.0	100.0	100.0	100.0	100.0	100.0
68"	68"	87.0	100.0	100.0	100.0	100.0	100.0	68"	68"	87.0	100.0	100.0	100.0	100.0	100.0
72"	72"	87.0	100.0	100.0	100.0	100.0	100.0	72"	72"	87.0	100.0	100.0	100.0	100.0	100.0
36"	36"	87.0	100.0	100.0	100.0	100.0	100.0	36"	36"	87.0	100.0	100.0	100.0	100.0	100.0
38"	38"	87.0	100.0	100.0	100.0	100.0	100.0	38"	38"	87.0	100.0	100.0	100.0	100.0	100.0
42"	42"	87.0	100.0	100.0	100.0	100.0	100.0	42"	42"	87.0	100.0	100.0	100.0	100.0	100.0
45"	45"	87.0	100.0	100.0	100.0	100.0	100.0	45"	45"	87.0	100.0	100.0	100.0	100.0	100.0
48"	48"	87.0	100.0	100.0	100.0	100.0	100.0	48"	48"	87.0	100.0	100.0	100.0	100.0	100.0
51"	51"	87.0	100.0	100.0	100.0	100.0	100.0	51"	51"	87.0	100.0	100.0	100.0	100.0	100.0
54"	54"	87.0	100.0	100.0	100.0	100.0	100.0	54"	54"	87.0	100.0	100.0	100.0	100.0	100.0
57"	57"	87.0	100.0	100.0	100.0	100.0	100.0	57"	57"	87.0	100.0	100.0	100.0	100.0	100.0
60"	60"	87.0	100.0	100.0	100.0	100.0	100.0	60"	60"	87.0	100.0	100.0	100.0	100.0	100.0
63"	63"	87.0	100.0	100.0	100.0	100.0	100.0	63"	63"	87.0	100.0	100.0	100.0	100.0	100.0
66"	66"	87.0	100.0	100.0	100.0	100.0	100.0	66"	66"	87.0	100.0	100.0	100.0	100.0	100.0
68"	68"	87.0	100.0	100.0	100.0	100.0	100.0	68"	68"	87.0	100.0	100.0	100.0	100.0	100.0
72"	72"	87.0	100.0	100.0	100.0	100.0	100.0	72"	72"	87.0	100.0	100.0	100.0	100.0	100.0



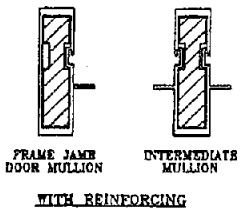
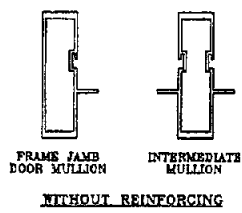
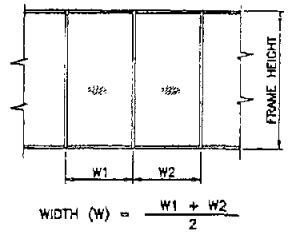
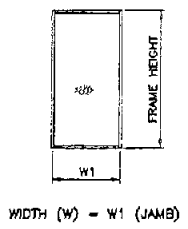
GLAZING OPTIONS
 9/16\"/>

PRODUCT REVIEWED
 IN CONSULTATION WITH THE PROVIDER
 BUILDING CODE
 APPROVED BY THE ARCHITECT
 APPROVED DATE: 05/26/05
 APPROVED BY: [Signature]
 APPROVED BY: [Signature]
 APPROVED BY: [Signature]

NOV 10 8 2005

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(-)	EXT.(+) / INT.(-)
24"	78"	87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		87.5	100.0
66"		87.5	100.0
72"		87.5	100.0
24"		84"	87.5
30"	87.5		100.0
36"	87.5		100.0
42"	87.5		100.0
48"	87.5		100.0
54"	87.5		100.0
60"	85.6		100.0
66"	81.3		100.0
72"	78.5		100.0
24"	90"		87.5
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		81.7	100.0
54"		79.0	100.0
60"		70.1	100.0
66"		66.5	100.0
72"		63.9	100.0
24"		96"	87.5
30"	87.5		100.0
36"	84.4		100.0
42"	73.9		100.0
48"	68.3		100.0
54"	60.7		100.0
60"	56.4		100.0
66"	53.2		100.0
72"	50.8		100.0
24"	102"		87.5
30"		82.6	100.0
36"		69.9	100.0
42"		61.0	100.0
48"		54.5	100.0
54"		49.8	100.0
60"		46.1	85.9
66"		43.3	90.0
72"		-	85.8

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(-)	EXT.(+) / INT.(-)
24"	108"	85.7	100.0
30"		69.3	100.0
36"		58.5	100.0
42"		51.0	100.0
48"		45.5	94.7
54"		41.4	86.1
60"		38.2	79.5
66"		35.7	74.3
24"	114"	72.7	100.0
30"		58.7	100.0
36"		49.8	100.0
42"		43.1	89.7
48"		38.4	79.8
54"		34.8	72.4
60"		32.0	66.7
24"		120"	62.2
30"	50.2		100.0
36"	42.3		88.0
42"	36.8		78.5
48"	32.7		68.0
54"	29.6		61.5
60"	27.2		56.5



ENGR. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
S.A.N. 3538

NOV 8 2005

PRODUCT REVIEW
As complying with the Florida
Building Code
Amplification No. OS-040405
Explication No. OS-040405

By: *[Signature]*
Checked: Product Control

a f c

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6979

IMPACT WALL 3000/L-3000 WINDOW WALL SYS.
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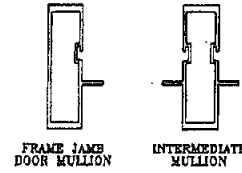
Revised by:	no date	DESCRIPTION
D	01-15-04	GENERAL REVISION
E	02-02-04	REV. PER BIDD CHANGES
F	07-22-04	GENERAL REVISION
G	11-08-05	NO DAMAGE THE SHEET

code: 12-08-98
scale: 1/2" = 1"
Dr. by: HAMD
CHK. BY:

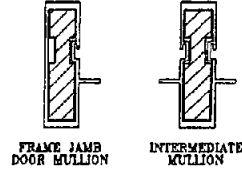
drawing no.
98-42
sheet 4 of 11

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(-)	EXT.(+) / INT.(-)
24"	78"	87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		82.9	100.0
66"		75.4	100.0
72"	69.1	100.0	
24"	84"	87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		79.0	100.0
60"		71.1	100.0
66"		64.6	100.0
72"	59.2	100.0	
24"	90"	87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		83.1	100.0
48"		72.7	100.0
54"		64.6	100.0
60"		58.2	100.0
66"		52.9	100.0
72"	48.5	100.0	
24"	96"	87.5	100.0
30"		87.5	100.0
36"		79.9	100.0
42"		68.5	100.0
48"		59.8	100.0
54"		53.3	100.0
60"		47.9	99.7
66"		43.6	90.7
72"	39.9	83.1	
24"	102"	87.5	100.0
30"		79.9	100.0
36"		66.6	100.0
42"		57.1	100.0
48"		50.0	100.0
54"		44.4	92.4
60"		40.0	83.1
66"		36.3	75.6
72"	-	69.3	

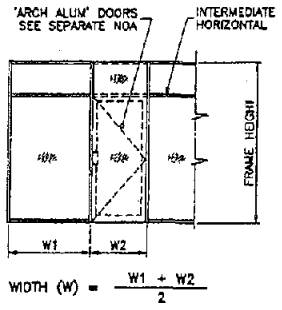
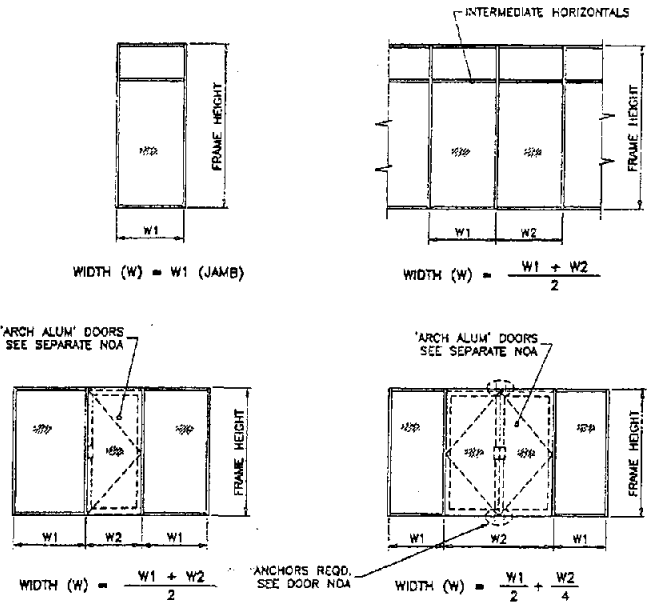
MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(-)	EXT.(+) / INT.(-)
24"	108"	84.2	100.0
30"		67.3	100.0
36"		58.1	100.0
42"		48.1	100.0
48"		42.1	87.5
54"		37.4	77.8
60"		33.7	70.0
66"		30.8	63.7
24"	114"	71.6	100.0
30"		57.3	100.0
36"		47.7	99.3
42"		40.9	85.1
48"		36.8	74.4
54"		31.8	66.2
60"		28.6	59.8
66"		26.5	55.8
24"	120"	61.4	100.0
30"		48.1	100.0
36"		40.9	85.1
42"		35.1	72.9
48"		30.7	63.8
54"		27.3	56.7
60"		24.5	51.1



WITHOUT REINFORCING



WITH REINFORCING



Engr. DR. HUMAYOUM FAROOQ
STRUCTURES
FLA. REG. # 16537
C.A.N. 1538
NOV 08 2005

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 05-000005
Expiration Date 12/31/10
By: *M. Smith*
Special Code Product Control
Division

a/jc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 198-420A

IMPACT WALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th Street
JANORAC, FL. 33321
TEL. (800) 432-8132 FAX. (954) 724-9283

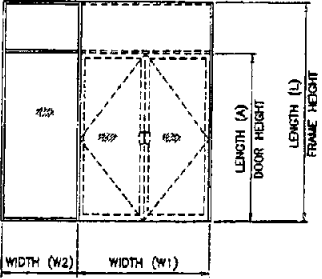
REVISIONS:	BY	DESCRIPTION
(1) 0016	GENERAL REVISION	
(2) 0115/04	REV. PER BIDD DRAWINGS	
(3) 02/22/04	GENERAL REVISION	
(4) 07/22/04	NO CHANGE THIS SHEET	

Scale: 1/2" = 1'
Date: 12-09-05
By: *H. Farooq*
Checked: *M. Smith*

drawing no.
98-42
sheet 5 of 11

MULLION LOAD CAPACITY - PSP AT DOUBLE DOOR WITH TRANSOM							
NOMINAL DIMS.				WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
60"	30"	96"	102"	71.1	87.5		
	33"			68.1	87.5		
	36"			65.3	87.5		
	39"			62.7	87.5		
	42"			60.3	87.5		
	48"			55.0	87.5		
72"	30"	96"	102"	52.3	87.5		
	33"			44.5	87.5		
	36"			42.0	87.5		
	39"			39.5	87.5		
	42"			37.0	87.5		
	48"			31.8	87.5		
60"	30"	96"	108"	48.6	87.5		
	33"			45.8	87.5		
	36"			42.4	87.5		
	39"			39.4	87.5		
	42"			36.5	87.5		
	48"			31.3	87.5		
72"	30"	96"	108"	28.3	87.5		
	33"			25.4	87.5		
	36"			22.4	87.5		
	39"			19.4	87.5		
	42"			16.4	87.5		
	48"			11.2	87.5		
60"	30"	96"	114"	39.2	82.1		
	33"			36.2	87.5		
	36"			33.2	87.5		
	39"			30.2	87.5		
	42"			27.2	87.5		
	48"			22.0	87.5		
72"	30"	96"	114"	17.8	87.5		
	33"			14.8	87.5		
	36"			11.8	87.5		
	39"			8.8	87.5		
	42"			5.8	87.5		
	48"			0.6	87.5		

MULLION LOAD CAPACITY - PSP AT DOUBLE DOOR WITH TRANSOM							
NOMINAL DIMS.				WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
60"	30"	96"	120"	38.3	80.0		
	33"			36.6	77.0		
	36"			35.5	74.2		
	39"			34.2	71.6		
	42"			33.1	69.1		
	48"			31.0	64.7		
72"	30"	96"	120"	29.1	80.9		
	33"			24.3	71.8		
	36"			23.2	69.3		
	39"			22.1	67.1		
	42"			21.0	64.9		
	48"			20.1	62.9		



MULLION LOAD CAPACITY - PSP AT DOUBLE DOOR WITH TRANSOM							
NOMINAL DIMS.				WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
60"	30"	90"	98"	65.0	87.5		
	33"			61.3	87.5		
	36"			58.0	87.5		
	39"			54.9	87.5		
	42"			52.1	87.5		
	48"			47.0	87.5		
72"	30"	90"	98"	42.6	87.5		
	33"			39.7	87.5		
	36"			37.0	87.5		
	39"			34.3	87.5		
	42"			31.6	87.5		
	48"			26.5	87.5		
60"	30"	90"	102"	54.3	87.5		
	33"			50.6	87.5		
	36"			47.0	87.5		
	39"			43.4	87.5		
	42"			39.8	87.5		
	48"			34.7	87.5		
72"	30"	90"	102"	27.4	87.5		
	33"			24.7	87.5		
	36"			22.0	87.5		
	39"			19.3	87.5		
	42"			16.6	87.5		
	48"			11.5	87.5		
60"	30"	90"	108"	40.8	85.3		
	33"			38.1	87.5		
	36"			35.4	87.5		
	39"			32.7	87.5		
	42"			30.0	87.5		
	48"			24.9	87.5		
72"	30"	90"	108"	19.0	87.5		
	33"			16.3	87.5		
	36"			13.6	87.5		
	39"			10.9	87.5		
	42"			8.2	87.5		
	48"			3.1	87.5		

MULLION LOAD CAPACITY - PSP AT DOUBLE DOOR WITH TRANSOM							
NOMINAL DIMS.				WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
60"	30"	90"	114"	44.3	87.5		
	33"			42.6	87.5		
	36"			41.1	85.9		
	39"			39.6	82.9		
	42"			38.3	80.1		
	48"			35.9	75.0		
72"	30"	90"	114"	33.7	70.6		
	33"			31.7	83.0		
	36"			30.3	80.2		
	39"			29.1	77.6		
	42"			27.9	75.1		
	48"			24.8	72.8		
60"	30"	90"	120"	32.8	68.6		
	33"			31.0	64.8		
	36"			29.9	62.8		
	39"			28.3	60.7		
	42"			27.4	57.3		
	48"			22.4	57.3		
72"	30"	90"	120"	27.4	57.3		
	33"			25.5	74.3		
	36"			24.3	71.7		
	39"			23.1	69.2		
	42"			22.0	67.0		
	48"			20.0	62.8		

Engr. DR. HUNAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3838
NOV 08 2005

PRODUCT REVIEW
in compliance with the Florida
Building Code
Approval No. 05-0000-05
Expiration Date 05/31/08
By: [Signature]
Miami Dade Product Control
Division

a Jc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6878
57096/98-1244

IMPACTUAL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th Street
TAMARAC, FL 33321
TEL. (800) 432-8132 FAX (954) 741-9793

NO	DATE	BY	DESCRIPTION
1	01.15.04	DR	GENERAL REVISION
2	02.10.04	DR	REV. PER DDD COMMENTS
3	07.23.04	DR	GENERAL REVISION
4	11.03.05	DR	NO CHANGE THIS SHEET

DATE: 12-08-08
SCALE: 1/2" = 1'-0"
BY: [Signature]
CHK. BY: [Signature]

drawing no.
98-42
sheet 6 of 11

MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
60"	30"	84"	90"	87.5	87.5	60"	30"	84"	108"	51.8	87.5	60"	30"	80"	90"	87.5	87.5	60"	30"	80"	108"	50.3	87.5
	33"			87.5	87.5		33"			49.7	87.5		33"			87.5	87.5		33"			48.4	87.5
	36"			87.5	87.5		36"			47.9	87.5		36"			87.5	87.5		36"			48.7	87.5
	39"			87.5	87.5		39"			46.2	87.5		39"			87.1	87.5		39"			45.2	87.5
	42"			87.2	87.5		42"			44.7	87.5		42"			83.9	87.5		42"			43.7	87.5
	48"			81.0	87.5		48"			41.9	87.5		48"			78.3	87.5		48"			41.0	85.6
54"	75.7	87.5	54"	39.4	82.4	54"	73.3	87.5	54"	38.6	80.6												
72"	30"	84"	90"	87.5	87.5	72"	30"	84"	108"	46.2	87.5	72"	30"	80"	90"	87.5	87.5	72"	30"	80"	108"	44.9	87.5
	33"			67.5	87.5		33"			44.7	87.5		33"			85.4	87.5		33"			43.5	87.5
	36"			88.1	87.5		36"			43.2	87.5		36"			82.3	87.5		36"			42.1	87.5
	39"			83.0	87.5		39"			41.9	87.5		39"			79.5	87.5		39"			40.6	85.4
	42"			80.1	87.5		42"			40.6	84.9		42"			78.9	87.5		42"			39.6	82.8
	48"			74.9	87.5		48"			38.3	80.0		48"			72.1	87.5		48"			37.4	78.2
54"	70.3	87.5	54"	36.2	75.7	54"	67.8	87.5	54"	35.4	74.1												
60"	30"	84"	96"	79.6	87.5	60"	30"	84"	114"	42.8	87.5	60"	30"	80"	96"	78.9	87.5	60"	30"	80"	114"	41.7	87.5
	33"			76.6	87.5		33"			41.1	85.9		33"			73.9	87.5		33"			40.2	84.2
	36"			73.7	87.5		36"			39.6	82.9		36"			71.1	87.5		36"			38.9	81.3
	39"			70.9	87.5		39"			38.3	80.1		39"			68.5	87.5		39"			37.5	78.6
	42"			68.4	87.5		42"			37.1	77.5		42"			66.2	87.5		42"			36.4	76.1
	48"			63.8	87.5		48"			34.8	72.8		48"			61.9	87.5		48"			34.2	71.5
54"	59.8	87.5	54"	32.8	68.6	54"	58.1	87.5	54"	32.2	67.4												
72"	30"	84"	96"	72.0	87.5	72"	30"	84"	114"	38.1	79.7	72"	30"	80"	96"	69.1	87.5	72"	30"	80"	114"	37.2	77.9
	33"			69.4	87.5		33"			36.9	77.1		33"			66.7	87.5		33"			36.1	75.4
	36"			66.9	87.5		36"			35.7	74.7		36"			64.4	87.5		36"			34.9	73.1
	39"			64.7	87.5		39"			34.6	72.4		39"			62.3	87.5		39"			33.9	70.9
	42"			62.5	87.5		42"			33.6	70.3		42"			60.3	87.5		42"			32.9	68.9
	48"			58.7	87.5		48"			31.7	66.3		48"			56.7	87.5		48"			31.1	65.1
54"	55.3	87.5	54"	30.0	62.6	54"	53.5	87.5	54"	29.5	61.7												
60"	30"	84"	102"	63.5	87.5	60"	30"	84"	120"	35.7	74.7	60"	30"	80"	102"	61.6	87.5	60"	30"	80"	120"	35.1	73.5
	33"			61.1	87.5		33"			34.5	72.1		33"			59.3	87.5		33"			33.9	70.9
	36"			58.8	87.5		36"			33.3	69.8		36"			57.1	87.5		36"			32.8	68.6
	39"			56.7	87.5		39"			32.2	67.3		39"			55.1	87.5		39"			31.7	66.3
	42"			54.8	87.5		42"			31.2	65.2		42"			53.3	87.5		42"			30.7	64.2
	48"			51.2	87.5		48"			29.3	61.2		48"			49.9	87.5		48"			28.9	60.4
54"	48.1	87.5	54"	27.8	57.8	54"	47.0	87.5	54"	27.2	57.0												
72"	30"	84"	102"	57.1	87.5	72"	30"	84"	120"	31.9	66.8	72"	30"	80"	102"	55.2	87.5	72"	30"	80"	120"	31.3	65.5
	33"			53.1	87.5		33"			30.9	64.6		33"			53.3	87.5		33"			30.3	63.4
	36"			53.2	87.5		36"			29.9	62.6		36"			51.6	87.5		36"			29.4	61.5
	39"			51.5	87.5		39"			29.0	60.7		39"			49.9	87.5		39"			28.5	59.7
	42"			49.9	87.5		42"			28.2	59.0		42"			48.4	87.5		42"			27.7	58.0
	48"			48.9	87.5		48"			26.8	55.7		48"			45.5	87.5		48"			26.2	54.9

Engr. DR. MUHAMMAD FAROOQ
STRUCTURES
FLA. REG. # 16557
C.A.N. 3838

NOV 08 2005

PRODUCT REVIEWED
as complying with the Florida
Building Code
Approved No. 05-000405
Expiration Date 08/31/08

By: [Signature]
Miami Beach Product Control
Division

a/c

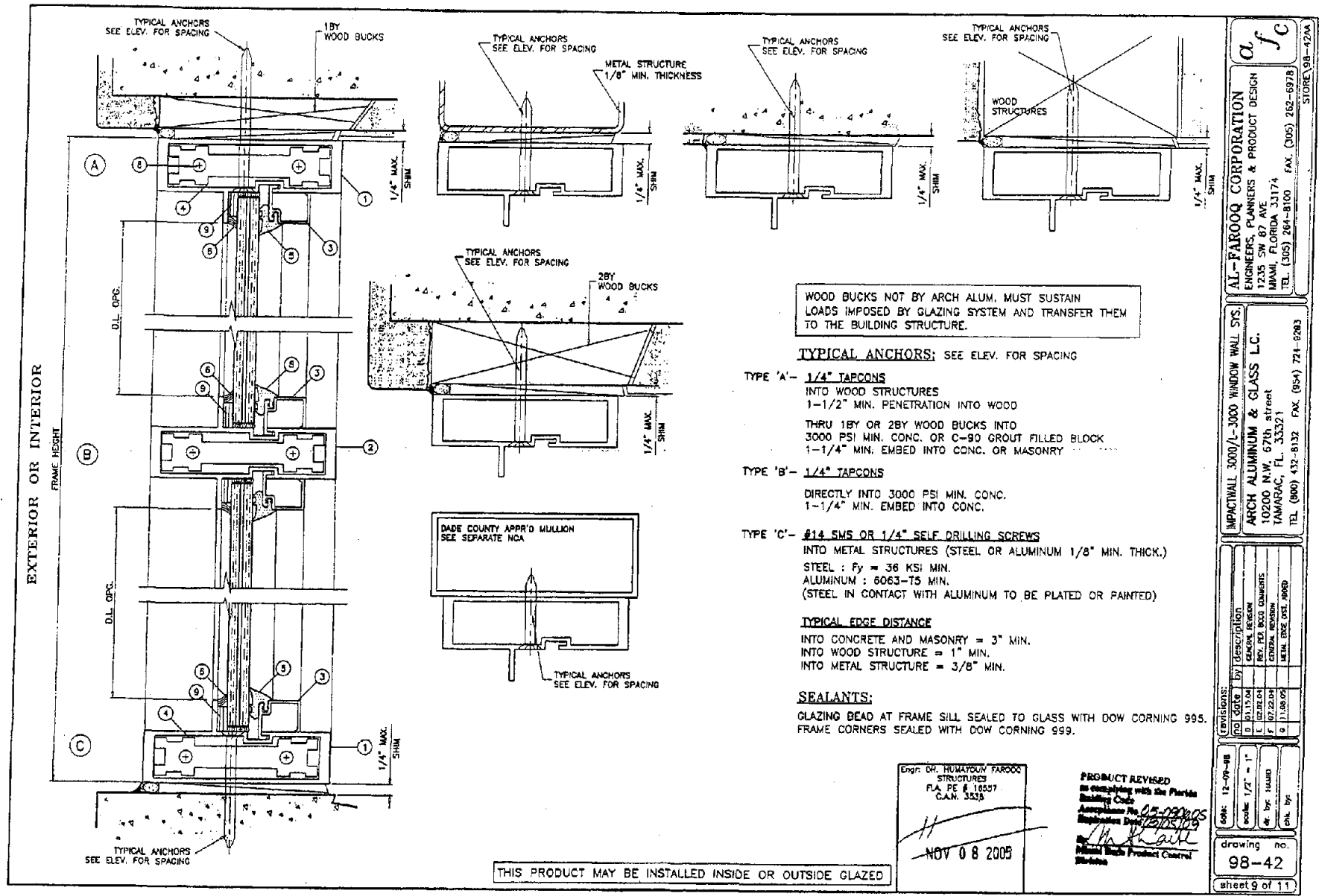
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6878

IMPACT WALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 57th Street
TAMARAC, FL 33321
TEL. (800) 432-8132 FAX. (954) 724-9293

REV.	DATE	DESCRIPTION
D	01.15.04	GENERAL REVISION
E	02.02.04	REV PER BIDD COMMENTS
F	07.22.04	GENERAL REVISION
G	11.08.05	NO CHANGE THIS SHEET

DATE: 12-08-06
SCALE: 1/2" = 1'
BY: HMD
CHK. BY:

drawing no.
98-42
sheet 7 of 11



a f c
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 261-8100 FAX. (305) 262-6078

IMPACT WALL 3000/L-3000 WINDOW WALL SYS
ARCH ALUMINUM & GLASS L.C.
 10200 N.W. 67th street
 TAMPA, FL, 33621
 TEL. (800) 432-8132 FAX. (813) 721-0283

REVISIONS:	NO.	DATE	DESCRIPTION
	D	01.12.04	CLERK REVIEW
	E	02.12.04	REV. PER BCC COMMENTS
	F	07.22.04	CORRECT REVIEW
	G	11.09.05	META. EDGE DIST. ADJ.

DATE:	12-09-05
SCALE:	1/2" = 1"
DR. BY:	HAUSD
CHECK BY:	

drawing no.
98-42
 sheet 9 of 11

Eng. DR. HUMAYDUN FAROOQ
 STRUCTURES
 FLA. PE # 18807
 C.A.N. 3353
 NOV 08 2005

PRODUCT ADVISED
 as complying with the Florida
 Building Code
 Amendment No. 25-2004
 Inspection Dept. 2005109
 M. H. H. H.
 Miami Beach Product Control
 Division

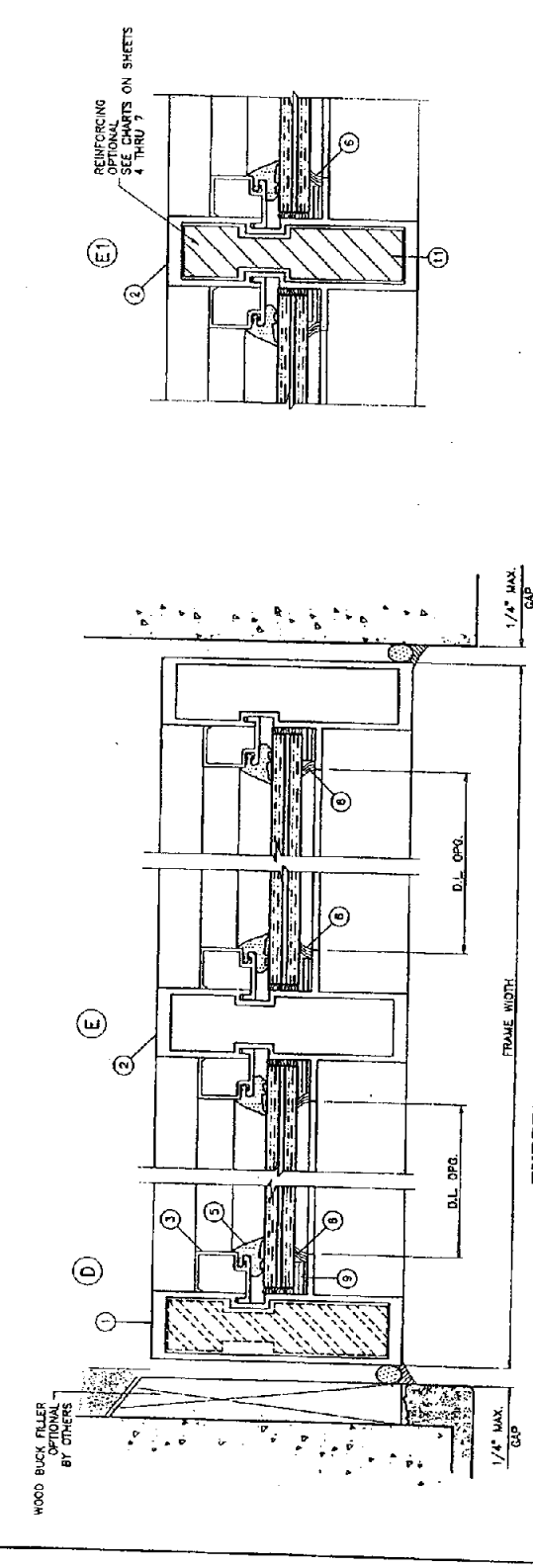
THIS PRODUCT MAY BE INSTALLED INSIDE OR OUTSIDE GLAZED

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 STORE 98-424A

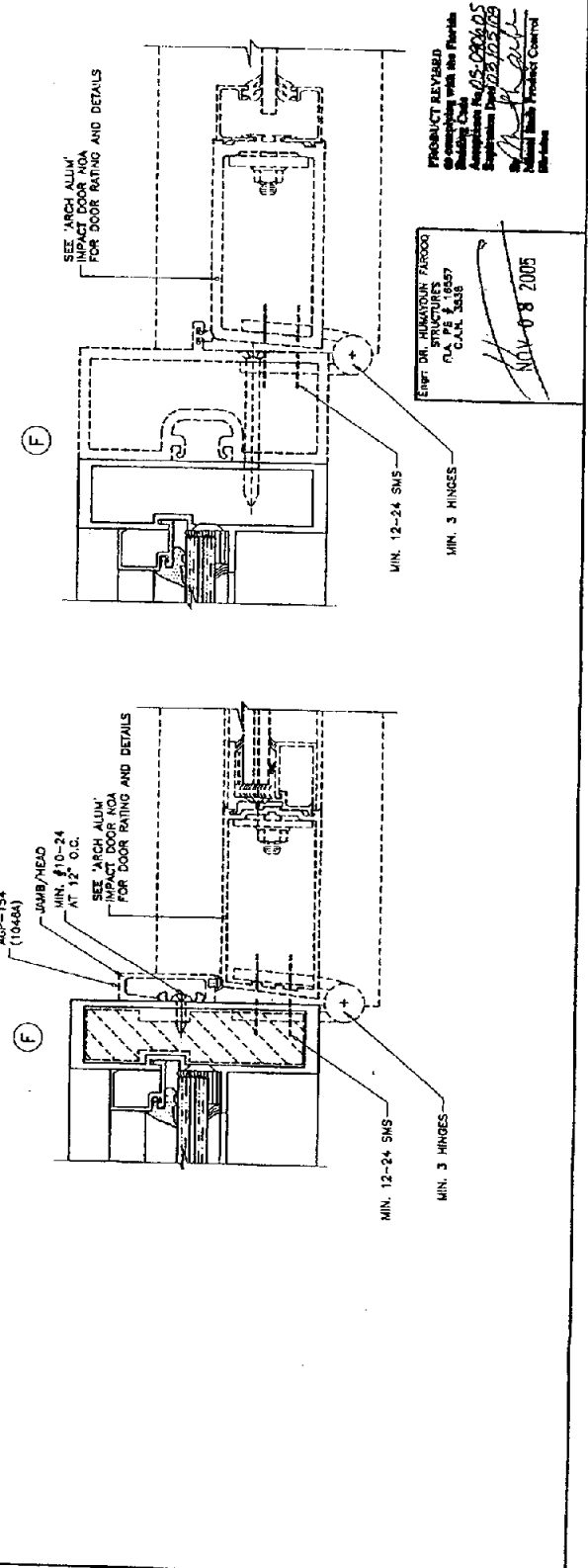
ARCH ALUMINUM & GLASS L.C.
 10200 N.W. 67th Street
 TAMARAC, FL 33321
 TEL (800) 432-8132 FAX (954) 724-9283

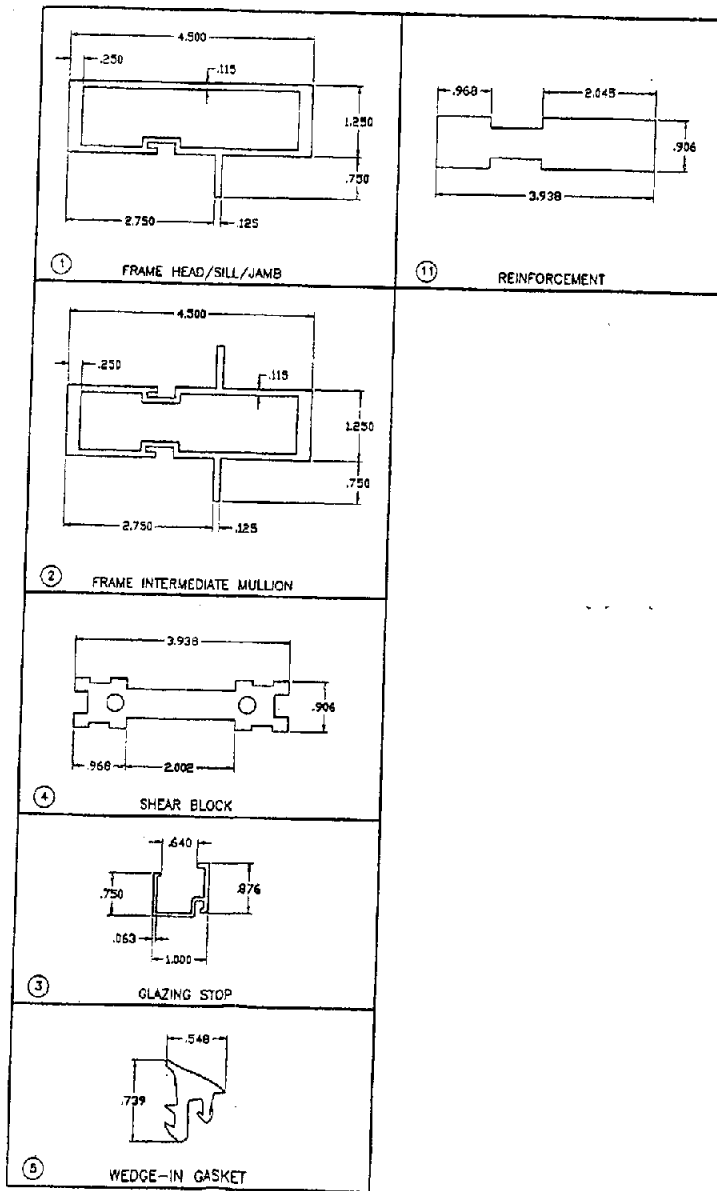
DATE	DESCRIPTION
12-08-98	GENERAL DESIGN
01-22-99	REV. FOR BOB EDWARDS
02-22-99	GENERAL DESIGN
02-22-99	GENERAL DESIGN
01-08-00	REV. FOR BOB EDWARDS
01-08-00	REV. FOR BOB EDWARDS
01-08-00	REV. FOR BOB EDWARDS

Sheet 10 of 11
 98-42
 drawing no.

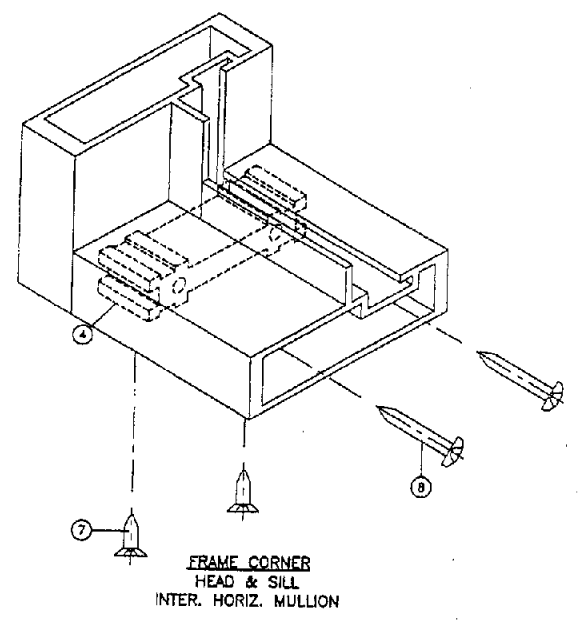


EXTERIOR OR INTERIOR





MATERIALS LIST						
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS	
1	3001 (AGA-356)	AS REQD.	FRAME HEAD/SILL/JAMB	6063-T6	ARCH ALUM & GLASS CO.	
2	3002	AS REQD.	INTERMEDIATE MULLION (VERT./HORIZ.)	6063-T6	ARCH ALUM & GLASS CO.	
3	3003	AS REQD.	GLAZING STOP	6063-T6	ARCH ALUM & GLASS CO.	
4	AR-3004	1/ CORNER	SHEAR BLOCK	6063-T6	1" LONG	
5	H-63	AS REQD.	GLAZING GASKET	EPDM 70 ±5	UNIVERSAL RUBBER CO.	
6	OC995	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING	
7	#12-24 X 3/4"	2/ CORNER	FLAT HEAD THREAD CUTTING SCREWS	-	-	
8	1/4-20 X 1-1/2"	2/ CORNER	PAN HEAD MACHINE SCREWS	-	-	
9	V2100	-	ADHESIVE FOAM TAPE	-	NORTON	
10	-	AS REQD.	SETTING BLOCK (1/2" X 1/4" X 2" LONG)	NEOPRENE	NORTON	
11	3004A	AS REQD.	ALUMINUM REINFORCEMENT	6063-T6	ARCH ALUM & GLASS CO.	



Engr: DR. HUMAYUN FAROOQ
STRUCTURES
FLA. PE # 16597
C.A.N. 3636

H

NOV 08 2005

PRODUCT REVIEWED
as complying with the Florida
Building Code
Amendments No. 05-09-05
Supplices Date 02/05/05

M. Khan

Millon Bank Product Control
Shade

a f c

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
MIAMI, FLORIDA 33174
TEL. (305) 284-8100 FAX. (305) 282-6978

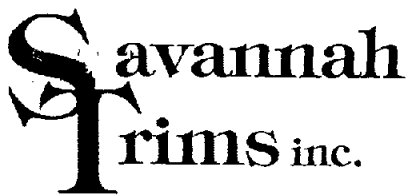
IMPACT WALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th Street
TAMARAC, FL 33321
TEL. (908) 432-8132 FAX. (954) 774-8283

REV.	DATE	BY	DESCRIPTION
1	01/13/04	HUMAYUN FAROOQ	GEN. REV.
2	01/13/04	HUMAYUN FAROOQ	REV. FOR 2000 COMMENTS
3	02/02/05	M. KHAN	GEN. REV.
4	11/08/05	M. KHAN	REV. FOR

date: 12-08-05
scale: 1/2" = 1"
dr. by: HMM
chk. by:

drawing no.
98-42

sheet 11 of 11



3567 91 street North, Suite # 4, Lake Park, Fl. 33403. Ph: 561-656-2556 FX 656-2599

PROPOSAL

To: *Jeffrey B. Trammell*
CH2M Hill Constructors, Inc.

DATE: May 24, 2007 REV. #2

PROJECT : Water Reclamation Facility
Southern Region
Palm Beach County, Florida

Ph...239-947-2300 Fx.:239-947-2649

We are pleased to provide you with pricing for your project. This proposal is based upon the **supply and installation** of custom RUSKIN Aluminum Louvers EME520MD and ELF6375DXD, and HMC Accordion Shutters. All with Miami-Dade approvals.

-All aluminum will have a white baked-on paint finish, with stainless fasteners. Steel reinforcing shall be prime painted 1 coat and finish 1 coat..

-Two areas at the Digester Building will have fixed metal panels in front of the existing louvers where they are otherwise inaccessible.

-Quotation to include installation, all attachment fasteners, caulking, sealing, shop drawings, structural calculations, sales tax, freight to jobsite and hoisting. Quote is predicated upon our standard specification and accessories.

Accordion Shutter work	\$ 160,360.00
<u>Aluminum Louver work</u>	<u>\$ 398,980.00</u>
Total bid amount	\$ 559,340.00

NOTE: Accordion shutters require a 25% deposit when ordering.

1. Quotation based upon manufacturers specification and accessories.
2. Manufacturers warranties all pass directly to customer or end user.
3. We install under the GC's permit
4. We are unable to define exact installation issues at the FPL Vault.

NOTE: THIS PROPOSAL MAY BE WITHDRAWN WITH NO LIABILITY TO SAVANNAH TRIMS INC., ITS PRINCIPALS OR ITS AGENTS IF THEBUYERS PURCHASE ORDER, CONTRACT, SUBCONTRACTS TERMS AND/OR CONDITIONS ARE NOT MUTUALLY ACCEPTABLE.

ACCEPTED: _____

THIS QUOTATION FIRM FOR 60 DAYS

BY: _____

BY: Dennis Dudash

DATE: _____

TITLE: VP

DATE: _____

DATE: 5-10-07

Terms and conditions on the reverse are binding on this agreement.

Palm Beach County WWTP...Delray Beach, Fl.

		VALUES IN DOLLARS
Solids Handling	Dwg. S3	
Accordion Shutters	1 @ 192 X 37h	\$ 2,700.00
Includes fixed metal panel behind electrical pipes		
Accordion Shutters	8 @ 266 X 37h	\$29,538.00
Accordion Shutters	1 @ 266 X 37h	3,670.00
Includes fixed metal panel behind valves/pipes		
Pretreatment Building	Dwg S8	
Accordion Shutters	4 @ 36 X 94h	\$ 5,076.00
Blower Building 2	Dwg S12	
Accordion Shutters	5 @ 68 X 168h	\$21,600.00
Chlorine Building	Dwg. S16	
Accordion Shutters	6 @ 42 X 90h	\$ 8,640.00
FPL-Generator Bld.	Dwg. S20	
Aluminum Louvers (no inside access)	12 @ 57 X 72h	Not Included
Aluminum Louvers (no inside access)	6 @ 35 X 37h	Not Included
Sludge Buildings 1 & 2	Dwg S26	
Accordion Shutters	5 @ 83 X 63h	\$ 9,828.00
Anaerobic Digesters 1&2	Dwgs. S28, S29, S30, S31	
Aluminum Louvers	30 @ 44 X 138h	\$221,370.00
Includes steel horizontal at midpoint		
Accordion Shutters	4 @ 88 X 108h	\$ 14,256.00
Accordion Shutters	10 @ 44 X 138h	27,788.00
Accordion Shutters	14 @ 95 X 66h	37,264.00
Electrical Building Dwg. S19 (exhaust louvers)		
Aluminum Louvers	4 @ 150 X 194	\$177,610.00
Includes steel supports as recommended by Ruskin		

Breakout if for convenience only. Deletions will effect pricing/



MYERS CONSTRUCTION GROUP, INC.

6710 SW 80TH STREET ■ SUITE 102 ■ MIAMI, FLORIDA 33143 ■ 305.669.4567 ■ FAX 305.666.2124

May 10, 2007

Jeff Trammell
CH2M Hill Constructors
Bonita Springs, Fl
(239)-707-4113 Tel

Revised-5/10/07

Subject: Southern Regional WWTP – Site Wall and Supports

Dear Jeff,

We are pleased to provide this revised estimate to construct the proposed new masonry and concrete site walls for Blower Building #1 and the Electrical Building at the above referenced site. Listed below are our stipulations that apply to this estimate:

Items/Work Included:

1. The footing, masonry wall , tie beam and aluminum brace supports.
2. Stucco (sand finish) and Paint (elastomeric)
3. Supervision for our scope of work.
4. General Conditions for our scope of work.
5. Sidewalk removal and replacement
6. Added washed stone at existing site wall planters.
7. Sod replacement adjacent to new site walls, including re-grading.
8. Dumpsters for our work.
9. All excavation, backfill and compaction for the footings.
10. Remove (120 sets of windows from Anaerobic Digester Buildings.
11. Block up, stucco and paint for (12) window openings. This includes fill cell, doweling and reinforcing.

Items/Work Excluded:

1. Fill or building pad work.
2. Dewatering.
3. Demolition of any kind other than the existing sidewalks adjacent to the new work.
4. Testing, inspections, special inspectors, engineering or design work.
5. Permits or permit processing.
6. Bond or bond premiums.
7. Temporary electric, water, security or their consumption costs.
8. Premium time wages and overtime costs.
9. Site concrete curbs, gutters, valley gutters, inlets, etc.
10. Excess fill removals from site.
11. Caulking or sealants.
12. Import or export of fill.
13. Landscaping, (other than bahia sod) or irrigation.
14. Erosion or sediment control and associated maintenance.
15. Thoroseal coatings or finishes.
16. Fencing or gates.
17. Louvers.



MYERS CONSTRUCTION GROUP, INC.

6710 SW 80TH STREET ■ SUITE 102 ■ MIAMI, FLORIDA 33143 ■ 305.669.4567 ■ FAX 305.666.2124

18. Miscellaneous or structural metals other than (15) aluminum "C" channel supports as shown.
19. Utility location, relocations or underground obstruction protection or removals.
20. Sheet piling or earth shoring or protection of adjacent structures.

Lump Sum Base Bid:

\$98,469 – Ninety Eight Thousand Four Hundred Sixty Nine Dollars

Alternate #1

Add for (3) new Hollow Metal Doors and Frames for the Existing Administration/Operations Building.

1. Existing Locksets are to be re-installed
2. No Painting or caulking included.
3. This work was figured to run concurrently with the above work. No additional Supervision or mobilizations were included.

Add \$7,200 - Seven Thousand Two Hundred Dollars

Alternate #2

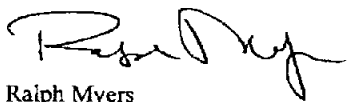
Add for removal and block up of (12) sets of windows at the Anaerobic Digesters. This work includes stucco, paint, doweling, reinforcing, debris removals, clean up and Supervision associated with this work.

Note: This work is figured to run concurrently with the above Base Bid work.

Add \$34,366 – Thirty Four Thousand Three Hundred Sixty Six Dollars

Please call me if you need anything further.

Very truly yours,



Ralph Myers

Total \$ 140,035 -

Overhead Door Co. of The Treasure Coast

3755 Fiscal Court Suite # 3
 Riviera Beach, FL 33404
 Telephone: 561-881-9700
 Fax: 561-881-9703

The Genuine. The Original.



Proposal #: 1-762

PROPOSAL SUBMITTED TO: CH2M HILL CONSTRUCTORS, INC.			Date 5/15/2007	Attention JEFF TRAMMELL
STREET 2550 WELL FIELD ROAD			Job Name SOUTH REGION WATER RECLAMATION FACILITY	
City BONITA SPRINGS	State FL	ZipCode 34135	Job Location 12751 HAGAN RANCH RD BOYNTON BCH, FL 33437	
Phone Number 239-947-2300	Fax Number 239-947-2649		Job Phone 239-947-2300 CELL:239-913-8564	

ITEM #	QTY	SERIES	DOOR WIDTH	DOOR HEIGHT	OPENING WIDTH	OPENING HEIGHT	OPERATION	MOUNTING	JAMB TYPE
1	1	610	8'-6"	10'-0"	8'-6"	10'-0"	Chain Hoist	Interior Face	Masonry
2	2	610	11'-10"	16'-10"	11'-10"	16'-10"	Exist. Elect.	Interior Face	Masonry
3	1	610	14'-0"	13'-0"	14'-0"	13'-0"	Exist. Elect.	Interior Face	Masonry
4	1	610	14'-0"	13'-0"	14'-0"	13'-0"	Exist. Elect.	Interior Face	Masonry
5	1	610	11'-0"	10'-0"	11'-0"	10'-0"	Exist. Elect.	Interior Face	Masonry
6	1	610	11'-0"	10'-0"	11'-0"	10'-0"	Exist. Elect.	Interior Face	Masonry
7	1	610	13'-6"	12'-0"	13'-6"	12'-0"	Exist. Elect.	Interior Face	Masonry
8	1	610	13'-6"	12'-0"	13'-6"	12'-0"	Exist. Elect.	Interior Face	Masonry
9	6	610	17'-3"	18'-0"	17'-3"	18'-0"	Exist. Elect.	Interior Face	Masonry
10	1	610	14'-7"	17'-5"	14'-7"	17'-5"	Exist. Elect.	Exterior Mount	Masonry

FURNISH AND INSTALL:

FOR VERTICAL POSTING FABRICATED AND INSTALLED ON (13) DOORS LISTED ON PROPOSAL 760.

EXCEPTIONS TO VERTICAL POSTING ARE ITEMS #1, #7 AND #8.

- PRETREATMENT BUILDING: (1) 8-6 X 10
- ANAEROBIC DIGESTER GROUP #1: (1) 13-6 X 12
- ANAEROBIC DIGESTER GROUP #2: (1) 13-6 X12

EXCEPTIONS PER JEFF TRAMMELL

SUBCONTRACTED TO WESTGATE SHEET METAL SPECIFICATIONS AND ENGINEERING BY OTHERS.

TOTAL COST: \$63,200.00

Price Proposal for CH2M HILL CONSTRUCTORS, INC. by Overhead Door Co. of The Treasure Coast
Proposal Number 1 - 762
Job Name: SOUTH REGION WATER RECLAMATION FACILITY

We hereby propose to complete in accordance with above specification, for the sum of:		
Sixty Three Thousand Two Hundred Dollars and No Cents		\$63,200.00
Signature _____	_____	_____
Tim Rhodes		Direct Dial: 561-881-9700
<u>TERMS AND CONDITIONS</u>		
Payment to be made as follows: 50% DEPOSIT - BALANCE NET 30 WITH CONTRACT		
Prices subject to change if not accepted in 30 days.		
BY OTHERS: Jambs, spring pads, all wiring to motors and control stations, unless otherwise stated above, are not included.		
Purchaser agrees that doors shall remain in Seller's possession until paid in full. In the event Purchaser breaches or defaults under the terms and provisions of this Agreement, the Purchaser shall be responsible for the costs of collection, including reasonable attorneys' fees. The Seller shall be entitled to full and final payment on the Purchase Order. There shall be a 1 1/2% service charge per month for all payments due and owing after 30 days. (Agreements are contingent upon strikes, accidents, or delays beyond our control.)		
ACCEPTANCE: Terms, Price, and specifications on all pages of this proposal are hereby accepted and the work authorized.		
Purchaser: _____		
Signature _____	Title _____	Date of Acceptance _____

WEST GATE SHEET METAL, INC.

1199 Old Dixie Highway
Riviera Beach, Fl. 33404
Ph: 561-845-2440
Fax: 561-845-2495
wgsm@gate.net

QUOTATION

To: Jeff Trammell

Date: June 5, 2007

CH2M HILL

Fax: 239-947-2649
Ph: 239-947-2300

<u>Qty:</u>	<u>Part#:</u>	<u>Desc:</u>	<u>Price each:</u>	<u>Total:</u>
2 ea.	11'-0"x 16'-10"	Door Support	\$ 3908.73	\$ 7817.46
2 ea.	14'-0"x 13'-0"	Door Support	\$ 3805.59	\$ 7611.18
2 ea.	11'-0"x 10'-0"	Door Support	\$ 3320.23	\$ 6640.46
6 ea.	17'-3"x 18'-0"	Door Support	\$ 5926.80	\$ 35560.80
1 ea.	14'-7"x 17'-5"	Door Support	\$ 5570.10	\$ 5570.10

				\$ 63,200.00

Note: We see a possible interference problem between the Door Supports and the Bottom Angles on the Roll Down Doors. We would suggest a bolted or pinned connection at the top instead of the slide-in connection.

NOTE: \$ 1500.00 UP CHARGE TO DO 1 DOOR BEFORE OTHERS

Manufacture & install aluminum roll down door support
per drawings S36, S37, S38, & S39
Hurricane Hardening for:
South Regional Water Reclamation Facility
Palm Beach County, Florida

West Gate to supply all labor and material

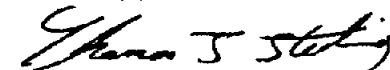
***** PRICE INSTALLED *****

F.O.B. JOB

Delivery: 4 TO 6 WEEKS

Terms: 50% DOWN 50% NET 30

Authorized Signature:


Tom Sterling, President

ATTACHMENT - B

PROJECT SCHEDULE

SCHEDULE

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

Construction Services

Completion Date—245 days after NTO

Final Completion

Completion Date—273 days after NTO

ATTACHMENT C

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME: Design & Estimating for the Hurricane Hardening - South Region Water Reclamation Facility PROJECT NUMBER: WUD 07-151

NAME OF PRIME BIDDER: CH2M HILL Constructors, Inc. ADDRESS: 800 Fairway Dr., Suite 350, Deerfield Beach, FL 33441

CONTACT PERSON: Jeff Trammell PHONE NO: 239-947-2300 FAX NO.: 239-947-2649

BID OPENING DATE: N/A DEPARTMENT:

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

Name, Address and Telephone Number of Minority Contractor	(Check one of both Categories)		Dollar Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Specify)
Bridge Design Associates, Inc. 2035 Vista Parkway, Suite 200, West Palm Beach, FL 33411	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$	\$	\$	\$ 26,661.15 (SBE)
Savannah Trims, Inc. 3567 91 Street North- Suite #4 Lake Park, FL 33403	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$	\$	\$	\$ 559,340.00 (SWBE)
	<input type="checkbox"/>	<input type="checkbox"/>	\$	\$	\$	\$	\$
	<input type="checkbox"/>	<input type="checkbox"/>	\$	\$	\$	\$	\$

PRIME CONTRACT COMPLETE: TOTAL: \$ \$ \$ \$ \$ 586,001.15

BID PRICE: N/A Total Value of SBE Participation: **\$ 586,001.15**

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

ATTACHMENT C

SCHEDULE 2

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

PROJECT NO. 07-151 PROJECT NAME: Construction Services for the Hurricane Hardening- South Region Water Reclamation Facility

TO: CH2M HILL CONSTRUCTORS, Inc.
(Name of Prime Bidder)

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

Small Business Enterprise Minority Business Enterprise _____

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

Date of Palm Beach County Certification: 8/20/2004

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

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
<u>1</u>	<u>Labor</u>	<u>1 LS</u>	<u>\$26,661.15</u>	<u>\$ 26,661.15</u>

at the following price:
Twenty Six Thousand Six hundred Sixty One Dollars and Fifteen Cents (\$26,661.15)
(Subcontractor's quote)

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

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ 0

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

Bridge Design Associates, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: [Signature]
(Signature)

Brian Rheault/Principal
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: 6/11/07

ATTACHMENT C

SCHEDULE 2

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

PROJECT NO. 07-151 PROJECT NAME: Construction Services for the Hurricane Hardening- South Region Water Reclamation Facility

TO: CH2M HILL CONSTRUCTORS, Inc.
(Name of Prime Bidder)

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

Small Business Enterprise Minority Business Enterprise _____

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

Date of Palm Beach County Certification: 12/13/2005

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

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
<u>1</u>	<u>Labor</u>	<u>1 LS</u>	<u>\$559,340.00</u>	<u>\$ 559,340.00</u>

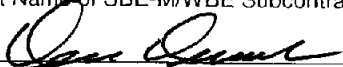
at the following price:
Five Hundred Fifty Nine Thousand Three Hundred Forty Dollars and No Cents (\$559,340.00)
(Subcontractor's quote)

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

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ 0

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

Savannah Trims, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: 
(Signature)

Dennis DuDash/VP
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: 6/4/07

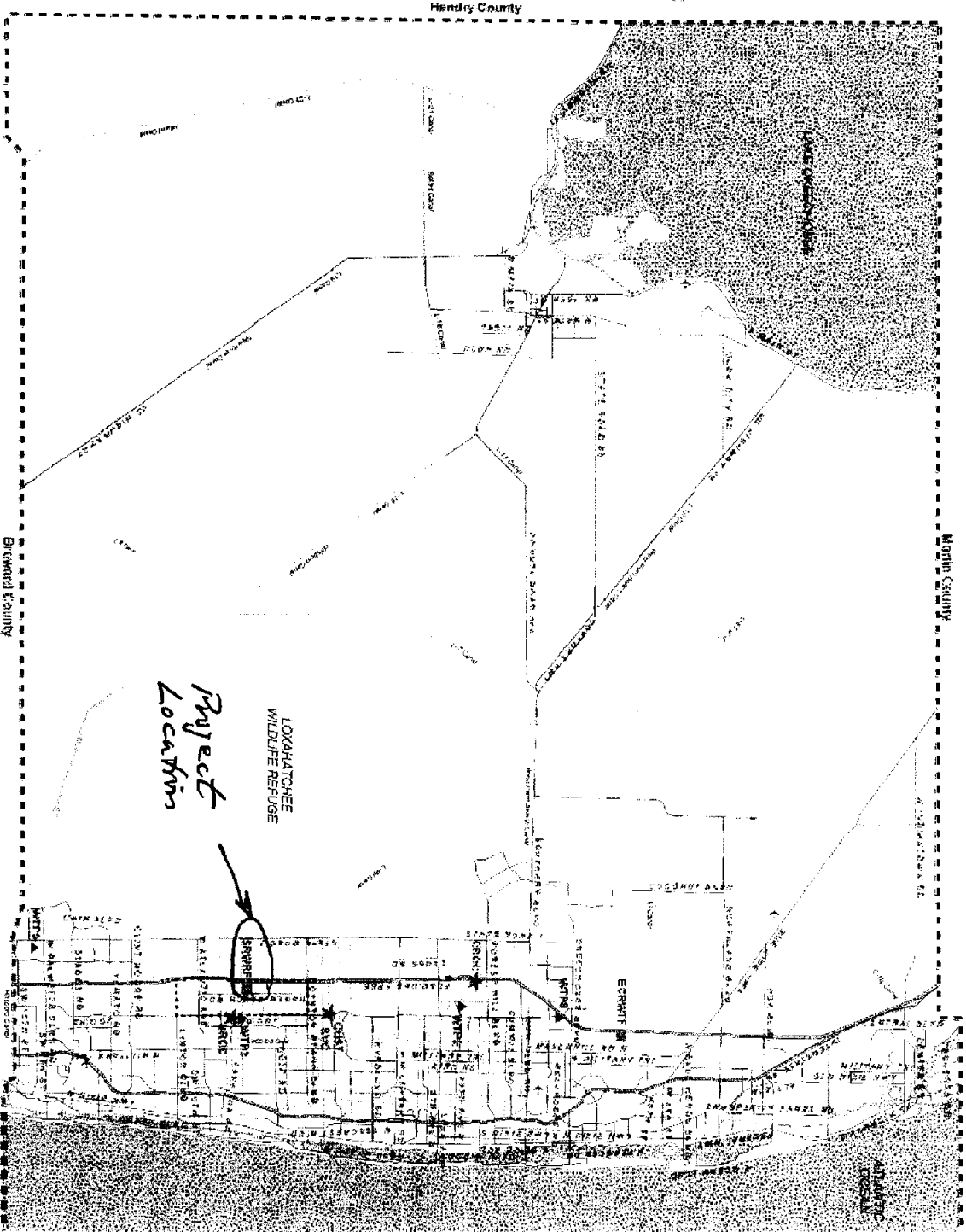


Palm Beach County
Water Utilities
Department
Service Area (SA) and
Major Facilities

**Project
Location**

COUNTYWIDE

- Legend**
- P.B.C. W.U.D. SA
 - MANDATORY RECLAIMED SA
 - COUNTY LIMITS
 - ★ Administration
 - Water Reclamation Plant
 - ▲ Water Treatment Plant
 - Wastewells



ATTACHMENT 'D'

Project Name WUD # 07-151

EXHIBIT - B

AUTHORIZATION STATUS REPORT

SUMMARY AND STATUS OF
REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	CH2M Project No.
CONSULTANT SERVICES AUTHOUIZATIONS						
1	Disaster Recovery Services – Project Kickoff Services CSA #1-SRWRF	Approved	\$24,420.00	11/1/2006	06-103	350909
2	Engineering & Design Services & Estimating for GMP Preparation CSA #2 -SRWRF	Approved	\$78,362.00	3/21/2007	06-103	356809
3	Engineering & Design Services & Estimating for GMP Preparation CSA #3 –WTP System #3 & SROC	Pending	\$63,855.88		06-169	
4	Engineering & Design Services & Estimating for GMP Preparation CSA #4 –Regional Pump Stations	Pending	76,396.88		06-169	
WORK AUTHORIZATIONS						
1	WA#1 Construction Services-SRWRF	Pending	\$196,468.58		07-109	
2	WA#2 Construction Services-SRWRF	Pending	\$1,437,422.77		07-151	
Total			\$1,876,926.11			

Exhibit C

**AUTHORIZATION STATUS REPORT
Disaster Recovery Services Design/Build Contract**

SUMMARY OF
SBE / MINORITY BUSINESS TRACKING SYSTEM

Work Authorization #2

	TOTAL	SBE
Current Proposal		
Value of Consultant Service Authorization	\$0.00	
Value of Work Authorization	\$1,437,422.77	
Value of Consultant Service & Work Authorizations	\$1,437,422.77	
Value of SBE Letters of Intent	\$586,001.15	\$586,001.15
Actual Percentage	40.76%	40.76%
Signed / Approved Authorizations		
Value of Consultant Service Authorizations	\$102,782.00	
Value of Work Authorizations	\$0.00	
Value of Consultant Service & Work Authorizations	\$102,782.00	
Total Value of SBE Signed Subcontracts	\$33,606.65	\$33,606.65
Actual Percentage	32.69%	32.69%
Signed / Approved Authorizations plus Current Proposal		
Value of Consultant Service Authorizations	\$102,782.00	
Value of Work Authorizations	\$1,437,422.77	
Value of Consultant Service & Work Authorizations	\$1,540,204.77	
Total Value of Subcontracts & Letters of Intent	\$619,607.80	\$619,607.80
Actual Percentage	40.22%	40.22%
GOAL	15.00%	