3H-J

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

Meeting Date: September 15, 2009

[x]Consent []Ordinance

[]Regular []Public Hearing

Department: Facilities Development & Operations

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: JOC Work Order No. 09-147 with H.A. Contracting Corp., (R2007-0944) in the amount of \$750,855.27 for replacement air conditioning units at the Palm Beach County Sheriff's Office (PBSO) Admin Building

Summary: The work consists of the installation of two (2) new 45 ton chillers with cooling modules for PBSO's main computer room which includes all associated mechanical, plumbing, and electrical, revisions to the ceiling grid and lighting, and other associated work. The Small Business Enterprise (SBE) participation in this work order is 64.3%. When the participation for this work order is added to H.A.'s total participation-to-date, the resulting values are 37.78%. The SBE goals are 15%. The total construction duration is 270 days. The County is funding the portion of the project which is renewal/replacement from its Countywide Renewal/Replacement Fund. The remainder of the project (\$440,000) is being funded by PBSO since equipment with greater capacity is necessary due to the placement of additional IT equipment and the associated heat load. (FD&O Admin) Countywide/District 2 (JM)

Background & Justification: The computer equipment in this room handles significant portions of PBSO's operations, including public access to numerous public services and law enforcement information, document processing at all PBSO locations, PBSO payroll, and court and press access. The air conditioning equipment in this room has been unable to handle the growth of equipment and failures have impacted PBSO's operations. An engineering cooling load study established their current and future needs. The new HVAC system will be sized to handle current and future growth and also to provide redundancy for this critical operation.

Attachments:

- 1. Location Map
- 2. JOC Work Order
- 3. Contractor's Proposal
- 4. SBE Estimate Report
- 5. Budget Availability Statement

Recommended by:	Anny Work	8 25 09
	Department Director	Date
Approved by:	udder	9/8/09
	County Administrator	Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Year	2009	2010	2011	2012	2013
Capital Expenditures Operating Costs	\$840,958.07 0	0 0	0 0	0 0	0 0
External Revenues Program Income (County) In-Kind Match (County)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
NET FISCAL IMPACT	\$840,958.07	0	0	0	0
# Additional FTE Positions (Cumulative)			_	_	
Is Item Included in Current	Budget? Yes X	No _	-		
•	04-411-B433-02- 04-411-B420-490		(\$440,000.0 (\$400,958.0	,	

Reporting Category _

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

\$440,000.00 is from the PBSO budget. \$400,958.07 is from the Renewal/Replacement Fund

C. Departmental Fiscal Review: _____

III. REVIEW COMMENTS

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

OFMB

13)09 Contract Dev and

This item complies with current County policies.

A. Legal Sufficiency:

sistant County Attorney

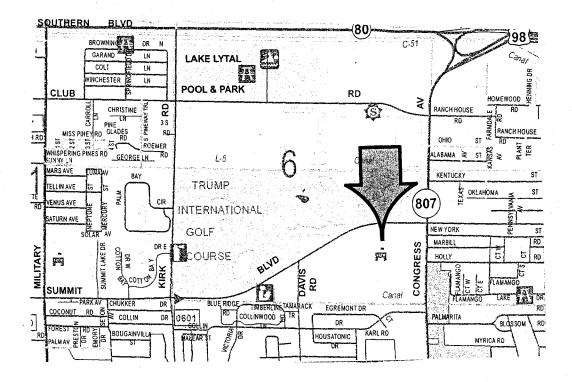
A. Other Department Review:

Department Director

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

Palm Beach County Sheriff's Office 3228 Gun Club Road

West Palm Beach, FL 33406



ATTACHMENT #/

August 11, 2009	JOC Work Orde Job Order Construction S		ACH COM
08631.01	PBSO - ISS HVAC CJC Bldg A, Administration, 3228 Gun Club Road 3228 Gun Club Road, WEST PALM BEACH		ORIDA
Brief Description:	Provide ISS HVAC.		
Contractor:	HA Contracting Corp. 9500 NW 12th Street Miami, FL 33172		
Contract:	R-2007-0944 Dated June 17, 2009		
AMOUNT:	\$ 750,855.27	DISTRICT: 2	
Funding:	3804-411-B433-02-4907 \$440,000; 3804-411-B420- \$400,958.07	4907	
JOC Work Order #	09-147		

Project Duration: 9 Months (Liquidated damages will apply)

Approval Signatures

Daniel Racette, Project Coordinator	Jan Davetter 8-11-09 Date
Audrey Wolf, Director	An a salast Stallag
Facilities Development & Operations	J Anny Writ 8 25 34
Chair	(NOT REQUIRED FOR PROJECTS <\$100,000 OR >\$200,000)
Contract Review Committee	Date
Approved as to form and legal sufficiency	
County Attorney	Date
John F. Koons, Chairman	
Board of County Commissioners	Date

President	Jane	Stel	8-11-09	
HA Contracting Corp.	7			Date

COPY: Project File

JOC Work Order

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Job Order Contract Proposal Review - CSI Summary

Date August 13, 2009 Job Order Number: 08631.01 Job Order Name: PBSO - ISS HVAC **Review:** PBSO - ISS HVAC - 8/7/2009 2:24:29PM

Section 01	Subtotal for 01	\$97,777.83
Section 02	Subtotal for 02	\$14,350.22
Section 03	Subtotal for 03	\$1,859.89
Section 05	Subtotal for 05	\$5,230.69
Section 07	Subtotal for 07	\$16,256.48
Section 09	Subtotal for 09	\$9,857.59
Section 10	Subtotal for 10	\$5,352.18
Section 15	Subtotal for 15	\$527,559.86
Section 16	Subtotal for 16	\$71,690.53
Section 18	Subtotal for 18	\$920.00
Proposal Review Total		\$750,855.27

Proposal Review Total

This job order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

Proposal Review - CSI Summary

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Job Order Contract Proposal Review - CSI Detail

 Date
 August 13, 2009

 Job Order Number:
 08631.01

 Job Order Name:
 PBSO - ISS HVAC

 Review:
 PBSO - ISS HVAC - 8/7/2009
 2:24:29PM

	Sect.	Item	Mod.	UOM	Description	1							Line Tota
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1	01204	1001		EA	Reimburs	able Fees							\$15,842.00
						Quantity		Unit Price		Factor		Total	
					tallation	158.42	х	100.00	х	1.0000	=	\$15,842.00	
				Pei	rmit Fees					· · · ·			
2	01352	1051		HR				the CTC include					\$4,634.9
					covered in		uested	specifically by t	he owne	r for miscella	neous wo	rk not	
	•					Quantity		Unit Price		Factor		Total	
					tallation	180.00	X	23.86	x	1.0792	=	\$4,634.95	
	-			Ce	iling modificat	ions							
3	01352	1091		HR				the CTC includ specifically by t					\$6,729.0
					covered in	the CTC.				-		T : (-)	
				Ins	tallation	Quantity		Unit Price		Factor 1.0792	=	Total \$6,729.03	
						160.00 ctivate exist	X Halon s	38.97 ys.,R/R exist de	X etectors &			<i>\\</i> 0,720.00	
1	01352	1201		HR							costs to o	over	\$1,140.9
4	01332	1201			labor. The		be requ	ems in the CTC lested specifica					φ1,140.5.
						Quantity		Unit Price		Factor		Total	
					tallation	40.00	x	26.43	x	1.0792	=	\$1,140.93	
			· · ·	T/L	Jp walls								
5	01352	1311		HR	labor. The	ese items will covered in the	be requ	e items in the C lested specifica		owner for m		DUS	\$7,007.03
				Inc	tallation	Quantity		Unit Price		Factor	_	Total	
					bricate Pipe h	160.00	X	40.58	x	1.0792	-	\$7,007.03	
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				Ine	stallation	Quantity		Unit Price		Factor	-	Total \$46,621.44	
					e Alarm Allow	360.00	х	120.00	x	1.0792	-	φ40,021.44	
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. /	01510	2015		EA	Service T		l Pick-u	city) "Constructi p Of Dumpster,				S ·	\$1,375.98
					4 - 11 - 41	Quantity		Unit Price		Factor		Total	
				Ins	stallation	3.00	X	425.00	×	1.0792		\$1,375.98	
8	01560	4001		LF	Tempora	y Safety Fen	ce, Plas	stic Mesh, 48" H	ligh With	Posts At 8' (On Center	r .	\$111.1
						Quantity		Unit Price		Factor		Total	
				Ins	stallation	100.00	х	1.03	x	1.0792	=	\$111.16	· · · · ·
9	01560	5101		SF				s 5/8" Gypsum , One Coat Of F Unit Price			ter Use	ids At Total	\$917.3
				ins	stallation	500.00	x	1.70	х	1.0792		\$917.32	
				Te	mp dust barri		^	1.70	^ .	1.0702		· ·	
10	01560	5302		SF		ood For Floor	r Protec	tion					\$1,003.6
	0.000	0002		0	172 1 1999		110180	Unit Price		Factor		Total	
				Ins	stallation	Quantity 3,000.00	x	0.31	x	1.0792		\$1,003.66	
			• •					0.31	~	1.07.02		+.,	

Proposal Review - CSI Detail

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

Review: PBSO - ISS HVAC - 8/7/2009 2:24:29PM

evi											
11	01560	7129	WK Type Refle	II Traffic Control E ctorized Rails Eac	Barricade, h Side		High A-Fra		ide x 8" Hig		\$1,113.09
			Installation	Quantity 60.00	x	Unit Price 17.19	x	Factor 1.0792	= .	Total \$1,113.09	
12	01590	9118	WK 50 To	on Lift Hydraulic Ci							\$5,677.38
				Quantity	uno, •••	Unit Price	porator	Factor		Total	+0,011.00
	•		Installation	1.00	x	5.260.73	x	1.0792	=	\$5,677.38	
13	01590	9702	WK 4000	To 5999 LB Forkli	ft With Fu	ull-Time Oper	ator				\$1,514.27
				Quantity		Unit Price		Factor		Total	
			Installation	1.00	x	1,403.14	x	1.0792	=	\$1,514.27	
14	01591	3134	DAY 3 Tor tiltbe	n Flat Bed Truck, 4 d.	x 2, With	n Full-Time Tr	uck Drive	Note: Inclu	ides hydrau		\$512.2
			Installation	Quantity		Unit Price		Factor 1.0792	_	Total \$512.27	
				1.00 [°] noved split unit to	x surplus	474.68	x	1.0792	_	ψ υ 12.2 1	
15	01591	4103		o 50 Ton Move On		Truck Mount	ed Crane				\$453.44
				Quantity		Unit Price		Factor		Total	
			Installation	1.00	x	420.16	x	1.0792	=	\$453.44	
16	01591	4207	doze	hoe, Dozer Or Rol r, roller, loader, ex ery, set-up and ret Quantity	cavator o						\$506.8
			Installation	1.00	x	469.63	x	1.0792	=	\$506.82	
			Fork lift deliv	very							
											¢2 617 0
17	01740	1111	CSF Clear	n Miscellaneous S	urfaces, V	Vipe Down W	ith Mild D	etergent			φ2,017.0
17	01740	1111	• * •	. Quantity	urfaces, V	Unit Price		Factor	_	Total	\$2,017.00
17	01740	1111	CSF Clear		urfaces, V x	•	/ith Mild D	-	=	Total \$2,617.06	φ2,617.0e
17	01740	1111	• * •	. Quantity		Unit Price		Factor 1.0792	= tal for 01	\$2,617.06	i
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Sec		1111 	Installation	. Quantity	X	Unit Price 4.85	X	Factor 1.0792		\$2,617.06	97,777.8
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Proposal Review - CSI Detail

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Job Order Number: 08631.01

	Order Niew:	Name:		- ISS HVAC - ISS HVAC - 8	/7/2009 2:24	4:29Pi	M				
24	02119	2001	• •	CYM Hauling	On Paved Roa	ds, Firs	t 15 Miles				\$388.51
				Installation	Quantity 900.00	x	Unit Price 0.40	x	Factor 1.0792 =	Total \$388.51	
25	02720	1102		LF 6" Stee	I Pipe Bollard, S	chedul		r Powde	r Coated		\$3,842.38
					Quantity		Unit Price		Factor	Total	
				Installation	72.00	x	49.45	x	1.0792 =	\$3,842.38	
26	02720	1102	1113	LF For Ead	ch Surface Mour	nted Bo	llard, Add Inclue	des base	plate and anchor bolts.		\$1,979.86
				Installation	Quantity		Unit Price		Factor	Total	
				Installation	72.00	x	25.48	X	1.0792 =	\$1,979.86	
- Million and		itera (Dilatto esconaciona							Subtotal for 02	2 \$1	4,350.22
Sec	tion 03										
27	03110	1111		SF Continu	ious Footings Fo	oundati	on Wood Form	vork			\$243.90
					Quantity		Unit Price		Factor	Total	
				Installation	100.00	x	2.26	x	1.0792 =	\$243.90	
28	03220	1001		SF 6x6x	#10, 21#/CSF, V	Velded	Wire Reinforce	ment In	Slabs, (W 1.4 x W 1.4)		\$125.36
				Installation	Quantity		Unit Price		Factor	Total	
	03303	1000			352.00	X	0.33	X	1.0792 =	\$125.36	
29	03302	1002		CY Poly Fil	pers Reinforcing	Concre		.b. Per C		ь. -	\$43.1
				Installation	Quantity		Unit Price		Factor 1.0792 =	Total \$43.17	
30	03311	1161			8.00 ab On Grade, <	X	5.00	X 2000 D			\$1,076.78
					Quantity	0 , Cia	Unit Price	3000 Pa		Total	φ1,070.70
				Installation	8.00	x	124.72	x	Factor 1.0792 =	Total \$1,076.78	
31	03311	1161	3023	CY For Hig	h Early Strength				•		\$74.03
					Quantity	1 11	Unit Price		Factor	Total	
				Installation	7.00	x	9.80	x	1.0792 =	\$74.03	
32	03311	2011		CY Deliver	Fee For Concr	ete Pur	chases Per CY	For Eac	h CY Less Than 9 CY		\$129.50
					Quantity		Unit Price		Factor	Total	
				Installation	8.00	x	15.00	x	1.0792 =	\$129.50	
33	03350	1005		SF Concre	te Floor Finishes	s, Steel	Trowel				\$167.15
				Installation	Quantity		Unit Price		Factor	Total	
				Installation	352.00	х	0.44	X	1.0792 =	\$167.15	
									Subtotal for 03	\$	51,859.89
Sec	tion 05			and the second				en de la composition de la composition Composition de la composition de la comp			
34	05502	7007		EA 3/8" Dia	ameter x 3" Long	Concr	ete Sleeve Anc	hor			\$766.23
					Quantity		Unit Price		Factor	Total	
			·	Installation	200.00	x	3.55	x	1.0792 =	\$766.23	
35	05506	1011		LF Unistru	t Channel 1-5/8"	Wide	< 1-5/8" High, 12	2 Gauge			\$1,265.18
				Installette	Quantity		Unit Price		Factor	Total	
				Installation	190.00	x	6.17	x	1.0792 =	\$1,265.15	
36	05506	1015	• • •	LF Unistru	t Channel 1-5/8"	Wide	c 13/16" High, 1	6 Gauge	, P4000HS		\$611.26
				Installation	Quantity		Unit Price		Factor	Total	

Installation \$611.26 1.0792 = 120.00 4.72 х х 37 05506 4013 EA Unistrut Nut Without Spring, 1-5/8" Channel 1/2" \$579.44 Total \$579.44 Quantity Unit Price Factor Installation 433.00 1.0792 = 1.24 х х

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Proposal Review - CSI Detail

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

Review: PBSO - ISS HVAC - 8/7/2009 2:24:29PM

Section 39 071 40 071 41 078 42 078 43 078 44 078	131 131 840 '840	6001 6001 1018 1023 2003		Installation Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Firesto Installation	PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	x er x er Hole x	Unit Price 11.19	x x x	Factor 1.0792 Subton Factor 1.0792 Factor 1.0792 Factor 1.0792	= =	Total \$2,008.61 \$ \$4,752.80 Total \$83.17 Total \$579.66	\$ 5,230.6 \$4,752.80 \$83.17 \$83.17
 39 071 40 071 41 078 42 078 43 078 	131 131 840 '840	6001 6001 1018 1023		Installation Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Fireston Installation EA Fireston	Quantity 200.00 arriers PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	x er x er Hole x	22.02 Unit Price 22.02 With 3/4" Pipe Unit Price 11.19	x	Factor 1.0792 Factor 1.0792 Factor	=	Total \$4,752.80 Total \$83.17 Total	\$4,752.8 \$83.1 \$579.6
 39 071 40 071 41 078 42 078 43 078 	131 131 840 '840	6001 6001 1018 1023		Installation Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Fireston Installation EA Fireston	Quantity 200.00 arriers PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	x er x er Hole x	22.02 Unit Price 22.02 With 3/4" Pipe Unit Price 11.19	x	1.0792 Factor 1.0792 Factor	=	\$4,752.80 Total \$83.17 Total	\$83.1 \$579.6
 40 071 41 078 42 078 43 078 	131 840 840	6001 1018 1023		Installation Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Fireston Installation EA Fireston	Quantity 200.00 arriers PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	x er x er Hole x	22.02 Unit Price 22.02 With 3/4" Pipe Unit Price 11.19	x	1.0792 Factor 1.0792 Factor	=	\$4,752.80 Total \$83.17 Total	\$83.1 \$579.6
41 078 42 078 43 078	840	1018 1023		Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Fireston Installation EA Fireston	200.00 arriers PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	er x er Hole x	22.02 Unit Price 22.02 With 3/4" Pipe Unit Price 11.19	x	1.0792 Factor 1.0792 Factor	=	\$4,752.80 Total \$83.17 Total	\$579.6
41 07842 07843 078	840	1018 1023	· · · · · · · · · · · · · · · · · · ·	Temp. dust ba CSF 10 Mil F Installation A/C conc. slat EA Fireston Installation EA Fireston	arriers PVC Vapor Barri Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	er x er Hole x	Unit Price 22.02 With 3/4" Pipe Unit Price 11.19	x	Factor 1.0792 Factor	=	Total \$83.17 Total	\$579.6
41 07842 07843 078	840	1018 1023		CSF 10 Mil F Installation A/C conc. slat EA Firesto Installation EA Firesto	PVC Vapor Barri Quantity 3.50 pping 3" Diamet Quantity 48.00 pping 3" Diamet Quantity	x er Hole x	22.02 With 3/4" Pipe Unit Price 11.19		1.0792 Factor		\$83.17 Total	\$579.6
41 07842 07843 078	840	1018 1023		Installation A/C conc. slat EA Firesto Installation EA Firesto	Quantity 3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	x er Hole x	22.02 With 3/4" Pipe Unit Price 11.19		1.0792 Factor		\$83.17 Total	\$579.6
42 078 43 078	840	1023	•	A/C conc. slat EA Firesto Installation EA Firesto	3.50 pping 3" Diamete Quantity 48.00 pping 3" Diamete Quantity	er Hole x	22.02 With 3/4" Pipe Unit Price 11.19		1.0792 Factor		\$83.17 Total	
42 078 43 078	840	1023		EA Firesto Installation EA Firesto	pping 3" Diamet Quantity 48.00 pping 3" Diamet Quantity	x	Unit Price 11.19	x		=		
42 078 43 078	840	1023	•	Installation EA Firesto	Quantity 48.00 pping 3" Diamet Quantity	x	Unit Price 11.19	x		=		
43 078			•	EA Firesto	48.00 pping 3" Diamete Quantity		11.19	X		=		
43 078			•	EA Firesto	pping 3" Diamet Quantity			<u>x</u>	1.0792	-	a079.00	
43 078			• •		Quantity	er Hole	e with Z Pipe					
	840	2003	•	Installation	•		Linit Drice		Feeter		Totol	\$611.8
	840	2003	-		85.00	x	Unit Price 6.67	X	Factor 1.0792	=	Total \$611.85	
44 078				EA 3" Fire	Stop Collar							\$2,158.0
44 078					Quantity		Unit Price		Factor		Total	
44 078				Installation	96.00	x	20.83	x	1.0792	=	\$2,158.05	
	840	2004		EA 4" Fire	Stop Collar							\$4,465.5
				Installation	Quantity		Unit Price		Factor		Total	
45 079	2940	2015	·		168.00	X	24.63	X	1.0792	=	\$4,465.56	
45 078	040	3015		CLF Fire Ca	ulk And Seal, 1'	'x1" Joi			- .			\$3,605.3
				Installation	Quantity 5.00	x	Unit Price 668.16	x	Factor 1.0792	=	Total \$3,605.39	
					5.00	~						
Section	n 00	A CONTRACTOR				an a			Subton	tal for 07	(4	16,256.4
46 095		6001		SE Dama		6 (14) •					9	<u>1.1123 10</u>
40 095	511	0001		SF Remov		Acoust	tical Ceiling Tile	And Grid,			T ()	\$3,574.7
				Installation	Quantity 9,201.00	x	Unit Price 0.36	x	Factor 1.0792	=	Total \$3,574.70	
47 099	910	6212		LF Paint C			o 3-1/2" Diamete					\$1,442.3
					Quantity		Unit Price		Factor		Total	
				Installation	2,430.00	X	0.55	x	1.0792	=	\$1,442.35	
40.000				·····	pipe insulation							
48 099	910	6222		LF Paint C		be 2" T	o 3-1/2" Diamete	er, One Co				\$1,442.3
				Installation	Quantity 2,430.00	x	Unit Price 0.55	x	Factor 1.0792	=	Total \$1,442.35	
					pipe insulation			^ .	1.0752		¢1,112.00	
49 099	945	1821		SF Cut An	d Patch Hole To	Match	Existing, To 10	SF			·······	\$3,398.1
	·	·		•	Quantity		Unit Price		Factor		Total	
				Installation	640.00	x	4.92	X	1.0792	=	\$3,398.18	
									Subto	tal for 09	9	\$9,857.5

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Proposal Review - CSI Detail (Continued) Job Order Number: 08631.01 Job Order Name: PBSO - ISS HVAC

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50	10271	4028				ed Floo	r And Trim Car	pet insi	all 4" Plastic I	nsert		\$4,073.33
				(Gromtec	#GT003) Quantity		Unit Price		Factor		Total	
				Installation	280.00	x	13.48	x	1.0792	=	\$4,073.33	
				Computer floor n								
51	10271	6001		SF Vacuum F	Raised Floor C	Carpet P	anel, Wipe Dirt	/Dust F	rom Stringers	And Floor		\$1,278.85
				Beneath I	Raised Floor		Linit Duine		F aataa		Ť-4-1	
				Installation	Quantity 1,500.00	x	Unit Price 0.79	x	Factor 1.0792	=	Total \$1,278.85	
					1,500.00	^	0.79	<u> </u>				
acquest	21.488.688.678.0723	and the second second	STRATE OF STRATE	and the second resident second strategies in the second second second second second second second second second	Company and state of the second space of the	WEARD AN LOOPING	Second in the second	bereet kit also a bille	mention of the state of the state of the state	tal for 10	A DAMANTAL AND DESCRIPTION OF THE OWNER	5,352.18
	tion 15	al ter.							6 - 16 C. M			
52	15063	2115		EA 1-1/4" 90	Degree Elbow	v, Coppe	er					\$1,151.29
				1	Quantity		Unit Price		Factor		Total	
				Installation	40.00	x	26.67	х	1.0792		\$1,151.29	
53	15063	2115	2003	EA For Braze	d Fittings Inst	tead Of 9	95/5 Solder, Ac	ld				\$132.53
				1 1 1 1	Quantity		Unit Price		Factor		Total	
				Installation	40.00	X	3.07	х	1.0792	=	\$132.53	
54	15063	2115	2004	EA For Stree	t Fitting, Add							\$107.06
					Quantity		Unit Price		Factor		Total	
				Installation	40.00	<u>Х</u>	2.48	x	1.0792	=	\$107.06	
55	15063	2115	2006	EA For Work	In Restricted	Working	y Space, Add					\$265.05
				Installation	Quantity		Unit Price	,	Factor	_	Total	
	45000	0440			40.00	X	6.14	x	1.0792	-	\$265.05	
50	15063	2116		EA 1-1/2" 90	Degree Elbow	v, Coppe						\$1,731.04
				Installation	Quantity		Unit Price		Factor		Total	
E 7	15062	0110	2002		50.00	X	32.08	×	1.0792		\$1,731.04	
57	15063	2116	2003	EA For Braze	•	tead Of 9	95/5 Solder, Ac	d				\$181.31
				Installation	Quantity		Unit Price		Factor	_	Total	
E 0	15063	0116	2004		50.00	X	3.36	X	1.0792	-	\$181.31	
50	15063	2116	2004	EA For Stree	t Fitting, Add							\$208.83
				Installation	Quantity		Unit Price		Factor	-	Total \$208.83	
50	15063	2116	2006		50.00	X	3.87	x	1.0792		\$200.03	
79	15005	2110	2000	EA For Work	In Restricted	vvorking						\$362.61
				Installation	Quantity		Unit Price		Factor	=	Total \$362.61	
60	15063	2118			50.00	X	6.72	X	1.0792		ψJ02.01	#4 070 O
00	10000	2110		EA 2-1/2 90	Degree Elbov	v, Coppe			·			\$1,276.69
				Installation	Quantity	v	Unit Price	v	Factor 1.0792	=	Total \$1,276.69	
61	15063	2118	2003		20.00	X .	59.15 95/5 Solder, Ad	X	1.0792		φ1,270.00	¢02.00
••	10000	2,10	2000	LA TOI DIAZE	-	leau OI :		u	- .		-	\$82.88
				Installation	Quantity 20.00	x	Unit Price 3.84	x	Factor, 1.0792		Total \$82.88	
62	15063	2118	2006		In Restricted				1.0732			, \$165.77
			2000			VVOINING			Feater		Tatal	φ10 <i>3.11</i>
				Installation	Quantity 20.00	x	Unit Price 7.68	x	Factor 1.0792		Total \$165.77	
63	15063	2185			t Copper Cou		00.1		1.0702		+	\$1,372.74
				i otraigi		Ping	Linit Drice		Easter		Tatal	ψι,υι 2.1-
				Installation	Quantity 60.00	x	Unit Price 21.20	x	Factor 1.0792	=	Total \$1,372.74	
64	15063	2185	2003	· · · · · · · · · · · · · · · · · · ·			95/5 Solder, Ad				,	\$183.9
,					Quantity	Gau OF	Unit Price		Factor		Total	ψ100.90
				Installation	60.00	x	2.84	x	Factor 1.0792		\$183.90	

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evi				- ISS HVAC - 8/7	·····		-		·			
65	15063	2185	2006	EA For Worl	In Restricted	Working	Space, Add					\$367.1
				Installation	Quantity 60.00	x	Unit Price 5.67	x	Factor 1.0792 ⁻	=	Total \$367.14	
66	15063	2186		EA 1-1/4" St	raight Copper (••••						\$1,637.9
					Quantity		Unit Price		Factor		Total	
			······································	Installation	62.00	X	24.48	x	1.0792	=	\$1,637.97	
67	15063	2186	2003	EA For Braz	ed Fittings Inst	ead Of 9		d				\$205.4
				Installation	Quantity		Unit Price		Factor 1.0792	=	Total \$205.41	
68	15063	2186	2006	···	62.00	X	3.07	x	1,0792		φ200.41	\$410.8
00	10000	2100	2000			working	Unit Price		Factor		Total	φ410.0
				Installation	Quantity 62.00	x	6.14	x	1.0792	=	\$410.83	
69	15063	2188		EA 2" Straig	ht Copper Cou							\$292.9
		•	• • •	· Partine · Č	Quantity		Unit Price		Factor		Total	
				Installation	8.00	x	33.93	x	1.0792	=	\$292.94	
70	15063	2188	2003	EA For Braz	ed Fittings Inst			d	· · · · · · · · · · · · · · · · · · ·			\$32.5
					Quantity		Unit Price		Factor		Total	
_				Installation	8.00	x	3.77	x	1.0792	=	\$32.55	
71	15063	2188	2006	EA For Wor	k In Restricted	Working	Space, Add					\$65.0
					Quantity		Unit Price		Factor		Total	
				Installation	8.00	x	7.53	x	1.0792	=	\$65.01	
72	15063	2188		EA 2" Straig	ht Copper Cou	pling						\$366.
					Quantity		Unit Price		Factor		Total	
				Installation	10.00	x	33.93	x	1.0792	=	\$366.17	
73	15063	2188	2003	EA For Braz	ed Fittings Inst	tead Of 9	95/5 Solder, Ac	ld				\$40.6
					Quantity		Unit Price		Factor		Total	
				Installation	10.00	X	3.77	x	1.0792	=	\$40.69	
74	15063	2188	2006	EA For Wor	k In Restricted	Working	Space, Add					\$81.2
				Installation	Quantity		Unit Price		Factor	_	Total	
75	15062	2400			10.00	<u>x</u>	7.53	x	1.0792		\$81.26	
15	15063	2189		EA 2-1/2" St	raight Copper	Coupling	,					\$556.3
				Installation	Quantity		Unit Price		Factor	_	Total \$556.35	
76	15063	2189	2003		12.00 ed Fittings Inst	X	42.96	X	1.0792		\$330.33	¢ 47 (
/0	10000	2103	2005		-	lead Or s		a	F		T () 1	\$47.0
				Installation	Quantity	x	Unit Price 3.63	x	Factor 1.0792	=	Total \$47.01	
77	15063	2189	2006		12.00 k In Restricted			^	1.07.52			\$93.8
	10000	2100	2000			vvorking			Factor		Tatal	φ 9 3.
	•			Installation	Quantity 12.00	x	Unit Price 7.25	x	Factor 1.0792	=	Total \$93.89	
78	15063	5004		And Cou	Diameter (25 plings, Elbow,	mm) Co	pper Pipe/Tubi	ng Type	L, Prices Inc	lude All	·····	\$7,770.2
				Assemb	lies Quantity		Unit Price		Factor		Total	
				Installation	600.00	x	12.00	x	1.0792	=	\$7,770.24	
79	15063	5004	5025	LF For Wor	k In Restricted							\$1,392.
					Quantity		Unit Price		Factor		Total	
				Installation	600.00	х	2.15	X	1.0792	=	\$1,392.17	

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Job Order Number: 08631.01

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			•								
15063	5005		Hang	Jers And Couplings							\$8,748.0
			·	Quantity		Unit Price		Factor		Total	
			Installation	600.00	x	13.51	x	1.0792	=	\$8,748.00	
15063	5005	5025	LF For \	Vork In Restricted	Workin	ng Space, Add					\$1,450.4
				Quantity		Unit Price		Factor		Total	
			Installation	600.00	X 1	2.24	х	1.0792	₽	\$1,450.44	
15063	5007		And	Couplings, Elbow,						Hangers	\$1,778.5
				Quantity		Unit Price		Factor		Total	
	-i	<u></u>		80.00	х	20.60	х	1.0792	=	\$1,778.52	
15063	5007	5025	LF For V	Nork In Restricted	Workir	ng Space, Add		· · · · ·			\$236.
				Quantity		Unit Price		Factor		Total	
			Installation	80.00	x	2.74	x	1.0792	=	\$236.56	· .
15063	5008		Hang	gers And Coupling							\$2,963.4
			Installation	Quantity		Unit Price		Factor	_	Total	
			Installation	100.00	Х	27.46	x	1.0792	=	\$2,963.48	
15063	5008	5025	LF For V	Nork In Restricted	Workir	ng Space, Add					\$317.
			•	Quantity		Unit Price		Factor		Total	
			Installation	100.00	х	2.94	х	1.0792	=	\$317.28	
15094	4111		LF 3/8"	Diameter Continuc	ous Thr	eaded Rod, Plai	in Steel,	Bright Finish			\$321.
				Quantity		Unit Price		Factor		Total	
			Installation	200.00	х	1,49	x	1.0792	=	\$321.60	
15094	4111	5391	LF For	Work In Restricted	Workir	ng Space, Add					\$32.
								Factor		Total	
			Installation		x		x		=	\$32.38	
15094	4131		EA 3/8"								\$77.
						Linit Prico		Factor		Total	••••
			Installation		¥		¥		=		
15094	4131	5391	EA For V				~			+····	\$21.
				•	VVOINI			_ /			φ21.
			Installation	•					=		
15004	A1 E 4				<u>x</u>	0.05	X	1.0792		Ψ21.00	*
15094	4131		EA 3/8"								\$55.
			Installation								
	<u> </u>						<u> </u>	1.0792	-	əəə.o4 	
15094	4151	5391	EA For	Nork In Restricted	Workir	ng Space, Add					\$15.
				Quantity		Unit Price		Factor		Total	
			Installation	200.00	Х	0.07	x	1.0792	=	\$15.11	
15094	5323		EA 1-1/4	1" Pipe Saddle, Ty	pe 39 (For 1" Insulation	ו)				\$678.
				Quantity		Unit Price		Factor		Total	
			Installation	66.00	х	9.52	x	1.0792	=	\$678.08	
15094	5323	5391	EA For	Nork In Restricted	Worki	ng Space, Add					\$134.
								Factor		Total	
			Installation	•	х		x				
15094	5324		EA 1-1/								\$734.
				-			·/	Factor		Total	φr 04.
				Quantity		Unit Price					
	15063 15063 15063 15063 15094 15094 15094 15094 15094 15094	15063 5005 15063 5007 15063 5007 15063 5008 15063 5008 15063 5008 15063 5008 15094 4111 15094 4131 15094 4131 15094 4151 15094 4151 15094 4151 15094 5323 15094 5323	15063 5005 5025 15063 5007 5025 15063 5007 5025 15063 5008 5025 15063 5008 5025 15063 5008 5025 15094 4111 5391 15094 4131 5391 15094 4131 5391 15094 4151 5391 15094 4151 5391 15094 4151 5391 15094 5323 5391	Hang Asse 15063 5005 5025 LF For V 15063 5007 LF 2" In: And Asse 15063 5007 5025 LF For V 15063 5008 5025 LF For V 15063 5008 5025 LF For V 15063 5008 5025 LF For V Installation Installation Installation 15094 4111 5391 LF For V Installation Installation Installation 15094 4131 5391 EA For V Installation Installation Installation Installation 15094 4151 5391 EA For V Installation Installation Installation </td <td>Hangers And Coupling: Assemblies Quantity (0.0) 15063 5005 5025 LF For Work In Restricted Quantity (nstallation Quantity 600.00 15063 5007 LF 2" Inside Diameter (50 And Couplings, Elbow, Assemblies Quantity Installation 80.00 15063 5007 5025 LF For Work In Restricted Quantity Installation 00.00 15063 5007 5025 LF For Work In Restricted Quantity Installation 00.00 15063 5008 LF 2-1/2" Inside Diameter Hangers And Coupling, Assemblies Quantity Quantity Installation 00.00 15063 5008 5025 LF For Work In Restricted Quantity Installation Quantity 100.00 15094 4111 LF 3/6" Washer, Flat Quantity Installation Quantity 200.00 15094 4131 5391 EA For Work In Restricted Quantity Installation Quantity 400.00 15094 4151 5391 EA For Work In Restricted Quantity Installation Quantity 400.00 15094 4151 5391 EA For Work In Restricted Quantity Installation<</td> <td>Hangers And Couplings, Elbor Assemblies Quantity 600.00 x 15063 5025 LF For Work In Restricted Workin Quantity Installation Quantity Installation Quantity Installation Add Couplings, Elbor, Tee, R And Couplings, Elbor, Tee, R Assemblies 15063 5007 5025 LF For Work In Restricted Workin Quantity Installation 80.00 x 15063 5007 5025 LF For Work In Restricted Workin Quantity Installation 80.00 x 15063 5008 LF 2-1/2" Inside Diameter (60 mm Hangers And Couplings, Elbor Assemblies Quantity 15063 5008 5025 LF For Work In Restricted Workin Quantity 15063 5008 5025 LF For Work In Restricted Workin Quantity 15094 4111 LF 3/8" Diameter Continuous Thr Quantity 15094 4111 S391 LF For Work In Restricted Workin Quantity 15094 4131 5391 EA For Work In Restricted Workin Quantity 15094 4151 EA<td>Hangers And Couplings, Elbow, Tee, Reduced Assemblies Quantity Unit Price 15063 5005 5025 LF For Work In Restricted Working Space, Add 15063 5007 LF 2" Inside Diameter (50 mm) Copper Pipe/Tub And Couplings, Elbow, Tee, Reducer Fittings. Assemblies 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5007 5025 LF Por Work In Restricted Working Space, Add 15063 5008 LF 2-1/2" Inside Diameter (60 mm) Copper Pipe/ Hangers And Couplings, Elbow, Tee, Reducer Assemblies Quantity Unit Price 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price 15094 4111 LF Srework In Restricted Working Space, Add Quantity Unit Price<td>Hangers And Couplings, Elbow, Tee, Reducer Fittings Assemblies Quantity Unit Price 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price 15063 5007 LF Por Work In Restricted Working Space, Add Couplings, Elbow, Tee, Reducer Fittings. 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All Hangers Assemblies Quantity Unit Price Factor 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add No.00 x 2.24 x 1.0792 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 LF 2.1/21 Inside Diameter (60 mm) Copper Pipe/Tubing Type L, Prices Hangers And Couplings, Elbow, Tee, Reducer Fittings. All Hangers Assemblies 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantit</td><td>Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Unit Price Factor 15063 5005 5025 L.F For Work In Restricted Working Space, Add 0.00 x 1.0792 = 15063 5007 L.F Prowork In Restricted Working Space, Add 0.00 x 2.24 x 1.0792 = 15063 5007 L.F 2"Inside Diameter (50 mm) Copeer PilopTubing Type L. Prices Include Al And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles 15063 5007 5025 L.F For Work In Restricted Working Space, Add Coupantity Unit Price Factor 15063 5008 L.F 2-1/2" Inside Diameter (60 mm) Cooper Pier/Tubing Type L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles 15063 5008 5025 L.F For Work In Restricted Working Space, Add Norder L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Co 15094</td><td>Hangers And Couplings, Elbow, Tes, Reducer Fittings, All Hangers Are Complete Assembles Guantity Unit Price Factor Total 10792 S8,748.00 15063 5005 5025 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pior/Tubing Type L Prices Include All Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assemblies Total 16063 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF</td></td></td>	Hangers And Coupling: Assemblies Quantity (0.0) 15063 5005 5025 LF For Work In Restricted Quantity (nstallation Quantity 600.00 15063 5007 LF 2" Inside Diameter (50 And Couplings, Elbow, Assemblies Quantity Installation 80.00 15063 5007 5025 LF For Work In Restricted Quantity Installation 00.00 15063 5007 5025 LF For Work In Restricted Quantity Installation 00.00 15063 5008 LF 2-1/2" Inside Diameter Hangers And Coupling, Assemblies Quantity Quantity Installation 00.00 15063 5008 5025 LF For Work In Restricted Quantity Installation Quantity 100.00 15094 4111 LF 3/6" Washer, Flat Quantity Installation Quantity 200.00 15094 4131 5391 EA For Work In Restricted Quantity Installation Quantity 400.00 15094 4151 5391 EA For Work In Restricted Quantity Installation Quantity 400.00 15094 4151 5391 EA For Work In Restricted Quantity Installation<	Hangers And Couplings, Elbor Assemblies Quantity 600.00 x 15063 5025 LF For Work In Restricted Workin Quantity Installation Quantity Installation Quantity Installation Add Couplings, Elbor, Tee, R And Couplings, Elbor, Tee, R Assemblies 15063 5007 5025 LF For Work In Restricted Workin Quantity Installation 80.00 x 15063 5007 5025 LF For Work In Restricted Workin Quantity Installation 80.00 x 15063 5008 LF 2-1/2" Inside Diameter (60 mm Hangers And Couplings, Elbor Assemblies Quantity 15063 5008 5025 LF For Work In Restricted Workin Quantity 15063 5008 5025 LF For Work In Restricted Workin Quantity 15094 4111 LF 3/8" Diameter Continuous Thr Quantity 15094 4111 S391 LF For Work In Restricted Workin Quantity 15094 4131 5391 EA For Work In Restricted Workin Quantity 15094 4151 EA <td>Hangers And Couplings, Elbow, Tee, Reduced Assemblies Quantity Unit Price 15063 5005 5025 LF For Work In Restricted Working Space, Add 15063 5007 LF 2" Inside Diameter (50 mm) Copper Pipe/Tub And Couplings, Elbow, Tee, Reducer Fittings. 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All Hangers Assemblies Quantity Unit Price Factor 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add No.00 x 2.24 x 1.0792 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 LF 2.1/21 Inside Diameter (60 mm) Copper Pipe/Tubing Type L, Prices Hangers And Couplings, Elbow, Tee, Reducer Fittings. 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Prices Include Al And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles 15063 5007 5025 L.F For Work In Restricted Working Space, Add Coupantity Unit Price Factor 15063 5008 L.F 2-1/2" Inside Diameter (60 mm) Cooper Pier/Tubing Type L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles 15063 5008 5025 L.F For Work In Restricted Working Space, Add Norder L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Co 15094</td><td>Hangers And Couplings, Elbow, Tes, Reducer Fittings, All Hangers Are Complete Assembles Guantity Unit Price Factor Total 10792 S8,748.00 15063 5005 5025 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pior/Tubing Type L Prices Include All Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assemblies Total 16063 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF</td></td>	Hangers And Couplings, Elbow, Tee, Reduced Assemblies Quantity Unit Price 15063 5005 5025 LF For Work In Restricted Working Space, Add 15063 5007 LF 2" Inside Diameter (50 mm) Copper Pipe/Tub And Couplings, Elbow, Tee, Reducer Fittings. 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All Hang Assemblies 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pipe/Tubing Type And Couplings, Elbow, Tee, Reducer Fittings. All Hang Assemblies 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5008 LF 2-1/2' Inside Diameter (60 mm) Copper Pipe/Tubing T Hangers And Couplings, Elbow, Tee, Reducer Fittings Assemblies 15063 5008 S025 LF For Work In Restricted Working Space, Add 15063 5008 5025 LF For Work In Restricted Working Space, Add 15063 5008 5025 LF For Work In Restricted Working Space, Add 15094 1111 LF 3/8' Diameter Continuous Threaded Rod, Plain Steel, Quantity Unit Price 15094</td> <td>Hangers And Couplings, Elbow, Teé, Reducer Fittings. All Hangers Assemblies Quantity Unit Price Factor 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add No.00 x 2.24 x 1.0792 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 LF 2.1/21 Inside Diameter (60 mm) Copper Pipe/Tubing Type L, Prices Hangers And Couplings, Elbow, Tee, Reducer Fittings. All Hangers Assemblies 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 5025 LF For Work In Restricted Working Space, Add Quantit</td> <td>Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Unit Price Factor 15063 5005 5025 L.F For Work In Restricted Working Space, Add 0.00 x 1.0792 = 15063 5007 L.F Prowork In Restricted Working Space, Add 0.00 x 2.24 x 1.0792 = 15063 5007 L.F 2"Inside Diameter (50 mm) Copeer PilopTubing Type L. Prices Include Al And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles 15063 5007 5025 L.F For Work In Restricted Working Space, Add Coupantity Unit Price Factor 15063 5008 L.F 2-1/2" Inside Diameter (60 mm) Cooper Pier/Tubing Type L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles 15063 5008 5025 L.F For Work In Restricted Working Space, Add Norder L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Co 15094</td> <td>Hangers And Couplings, Elbow, Tes, Reducer Fittings, All Hangers Are Complete Assembles Guantity Unit Price Factor Total 10792 S8,748.00 15063 5005 5025 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pior/Tubing Type L Prices Include All Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assemblies Total 16063 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF</td>	Hangers And Couplings, Elbow, Tee, Reducer Fittings Assemblies Quantity Unit Price 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price 15063 5007 LF Por Work In Restricted Working Space, Add Couplings, Elbow, Tee, Reducer Fittings. All Hang Assemblies 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pipe/Tubing Type And Couplings, Elbow, Tee, Reducer Fittings. All Hang Assemblies 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5007 5025 LF For Work In Restricted Working Space, Add 15063 5008 LF 2-1/2' Inside Diameter (60 mm) Copper Pipe/Tubing T Hangers And Couplings, Elbow, Tee, Reducer Fittings Assemblies 15063 5008 S025 LF For Work In Restricted Working Space, Add 15063 5008 5025 LF For Work In Restricted Working Space, Add 15063 5008 5025 LF For Work In Restricted Working Space, Add 15094 1111 LF 3/8' Diameter Continuous Threaded Rod, Plain Steel, Quantity Unit Price 15094	Hangers And Couplings, Elbow, Teé, Reducer Fittings. All Hangers Assemblies Quantity Unit Price Factor 15063 5005 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 LF For Work In Restricted Working Space, Add No.00 x 2.24 x 1.0792 15063 5007 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5007 5025 LF For Work In Restricted Working Space, Add Quantity Unit Price Factor 15063 5008 LF 2.1/21 Inside Diameter (60 mm) Copper Pipe/Tubing Type L, Prices Hangers And Couplings, Elbow, Tee, Reducer Fittings. 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Prices Include Al And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assembles 15063 5007 5025 L.F For Work In Restricted Working Space, Add Coupantity Unit Price Factor 15063 5008 L.F 2-1/2" Inside Diameter (60 mm) Cooper Pier/Tubing Type L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles 15063 5008 5025 L.F For Work In Restricted Working Space, Add Norder L, Prices Includ Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Co Assembles Norder L, Prices Includ Hangers Are Co 15094	Hangers And Couplings, Elbow, Tes, Reducer Fittings, All Hangers Are Complete Assembles Guantity Unit Price Factor Total 10792 S8,748.00 15063 5005 5025 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF For Work In Restricted Working Space, Add Unit Price Factor Total 15063 5007 LF 2' Inside Diameter (50 mm) Copper Pior/Tubing Type L Prices Include All Hangers And Couplings, Elbow, Tee, Reducer Fittings, All Hangers Are Complete Assemblies Total 16063 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5007 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF For Work In Restricted Working Space, Add Total 16083 5008 5025 LF

Proposal Review - CSI Detail

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC **Review:** PBSO - ISS HVAC - 8/7/2009 2:24:29PM

eview:		FB3U	- ISS HVAC - 8/7	//2009 2:24:2	29PM				
95 15094	5324	5391	EA For Work	k In Restricted W	orking Space, Add				\$146.0
				Quantity	Unit Price		Factor	Total	
			Installation	66.00	x 2.05	х	1.0792 =	\$146.02	
96 15094	5326		EA 2-1/2" Pi	pe Saddle, Type	39 (For 1" Insulation)			\$100.8
				Quantity	Unit Price		Factor	Total	
			Installation	8.00	x 11.68	x	1.0792 =	\$100.84	
97 15094	5326	5391	EA For Worl	k In Restricted W	orking Space, Add				\$21.2
				Quantity	Unit Price		Factor	Total	
			Installation	8.00	x 2.46	х	1.0792 =	\$21.24	
98 15094	5327		EA 3" Pipe S	Saddle, Type 39 ((For 1" Insulation)				\$182.6
				Quantity	Unit Price		Factor	Total	
			Installation	12.00	x 14.10	X	1.0792 =	\$182.60	
99 15094	5327	5391	EA For Wor	k In Restricted W	/orking Space, Add				\$35.3
				Quantity	Unit Price		Factor	Total	
			Installation		x 2.73	х	1.0792 =		
100 15094	7003		EA 2" Hange	er Assembly For	Pipe Includes Hange	er, Rod, S	Saddle And Clar	np	\$5,790.7
			1	Quantity	Unit Price		Factor	Total	
			Installation		x 41.92	x	1.0792 =		
<i>101</i> 15094	9107		LF 2-1/2"x 2	2-1/2" x 1/4" Angl	e Iron				\$11,520.4
			Installation	Quantity	Unit Price		Factor	Total	
			Installation		x 7.15	X	1.0792 =	\$11,520.41	
102 15106	1104		EA 7/8" Ref	rigeration Ball Va					\$1,589.4
			Installation	Quantity	Unit Price		Factor	Total \$1,589.40	
400 45404	4400				x 40.91	X	1.0792 =		<u></u>
103 15161	4403		EA 550-192		ear Vibration Isolatio	n With O			\$11,705.4
					Linit Drice		Factor	Total	
			Installation	Quantity	Unit Price	·		\$11 705 48	
104 15164	5203		Installation	36.00	x 301.29	X	1.0792 =		¢16 850
104 15164	5203		EA 2" Diam	36.00 eter x 24" Long, F	x 301.29 Flexible Hose Conne		1.0792 =		\$16,850.
<i>104</i> 15164	5203		EA 2" Diam Braided	36.00 eter x 24" Long, F	x 301.29 Flexible Hose Conne nnection, Welded Unit Price		1.0792 = raided Stainless Factor	Steel Over Steel Over	· · · ·
			EA 2" Diam Braided Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86	ctors, Br	1.0792 = raided Stainless Factor 1.0792 =	Steel Over Steel Over	
104 15164 105 15185 [.]			EA 2" Diam Braided Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00	x 301.29 Flexible Hose Conne nnection, Welded Unit Price	ctors, Br	1.0792 = raided Stainless Factor 1.0792 =	Steel Over Steel Over	
			EA 2" Diam Braided Installation LF 1-1/4" D	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86 I/2" Thick Fiberglass Unit Price	ctors, Br x Insulatio	1.0792 = aided Stainless Factor 1.0792 = on Factor	Steel Over Total \$16,850.54 Total	\$3,665.
105 15185·	1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86 I/2" Thick Fiberglass Unit Price x 7.72	x x Insulatio x	1.0792 = raided Stainless Factor 1.0792 = on	Steel Over Total \$16,850.54 Total	\$3,665.8
		1902	EA 2" Diam Braided Installation LF 1-1/4" D Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Adu	x x Insulatio x	1.0792 = aided Stainless Factor 1.0792 = on Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83	\$3,665.8 \$446.3
105 15185·	1304	1902	EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86 //2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price	ctors, Br x Insulatio x	1.0792 = aided Stainless Factor 1.0792 = on Factor 1.0792 = Factor	Steel Over Total \$16,850.54 Total \$3,665.83 Total	\$3,665.8 \$446.3
105 15185 106 15185	1304 1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00	x 301.29 Flexible Hose Connennection, Welded Unit Price x 216.86 I/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94	x x Insulatio x	1.0792 = aided Stainless Factor 1.0792 = on Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total	\$3,665.3 \$446.3
105 15185·	1304	1902	EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W	x 301.29 Flexible Hose Connennection, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add	ctors, Br x Insulatio x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36	\$3,665.8 \$446.3 \$650.8
105 15185 106 15185	1304 1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity	x 301.29 Flexible Hose Conne nnection, Welded Unit Price x 216.86 I/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price	ctors, Br x Insulatio x d x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 = Factor	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total	\$3,665.8 \$446.3 \$650.8
105 15185 106 15185 107 15185	1304 1304 1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity 440.00	x 301.29 Flexible Hose Conne Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37	ctors, Br x Insulatio x d x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54	\$3,665.8 \$446.3 \$650.8
105 15185 106 15185	1304 1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 clum Silicate With Quantity 440.00 k In Restricted W Quantity 440.00	x 301.29 Flexible Hose Connennection, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass	ctors, Br x Insulatio x d x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54	\$3,665.8 \$446.3 \$650.8 \$10,525.0
105 15185 106 15185 107 15185	1304 1304 1304		EA 2" Diame Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity	x 301.29 Flexible Hose Connennection, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass	ctors, Br x Insulatio x d x x Insulatio	1.0792=aided StainlessFactor1.0792=onFactor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor1.0792=Factor <td>Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total</td> <td>\$3,665.4 \$446.5 \$650. \$10,525.</td>	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total	\$3,665.4 \$446.5 \$650. \$10,525.
105 15185 106 15185 107 15185 108 15185	1304 1304 1304 1305	1999	EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation LF 1-1/2" D Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity 1,210.00	x 301.29 Flexible Hose Connernation, Welded Unit Price 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 1.37	ctors, Br x Insulation x d x x Insulation x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total	\$3,665. \$446. \$650. \$10,525.
105 15185 106 15185 107 15185	1304 1304 1304		EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation LF 1-1/2" D Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity 1,210.00 cium Silicate With	x 301.29 Flexible Hose Connennection, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 8.06 n Canvas Jacket, Add	ctors, Br x Insulation x d x x Insulation x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792 On Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total \$650.54	\$3,665. \$446. \$650. \$10,525. \$1,292.
105 15185 106 15185 107 15185 108 15185	1304 1304 1304 1305	1999	EA 2" Diam Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation LF 1-1/2" D Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 cium Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity 1,210.00 cium Silicate With Quantity	x 301.29 Flexible Hose Connenction, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 8.06 n Canvas Jacket, Add Unit Price x 8.06 n Canvas Jacket, Add Unit Price	ctors, Br x Insulatio x d x x Insulatio x d	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 1.0792 = On Factor 1.0792 = On Factor 1.0792 = Factor 1.0792 Factor Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total \$650.54 Total \$10,525.01	\$3,665. \$446. \$650. \$10,525. \$1,292.
105 15185 106 15185 107 15185 108 15185 109 15185	1304 1304 1304 1305 1305	1999	EA 2" Diame Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation LF 1-1/2" D Installation LF For Calc Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 clum Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity 1,210.00 clum Silicate With Quantity 1,210.00	x 301.29 Flexible Hose Connenction, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 0.94 Vorking Space, Add Unit Price x 8.06 n Canvas Jacket, Ad Unit Price x 8.06 n Canvas Jacket, Ad Unit Price	ctors, Br x Insulation x d x x Insulation x	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792 Factor 1.0792 On Factor 1.0792 = On Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total \$650.54 Total \$10,525.01	\$3,665.4 \$446.3 \$650.3 \$10,525.1 \$11,292.1
105 15185 106 15185 107 15185 108 15185	1304 1304 1304 1305	1999	EA 2" Diame Braided Installation LF 1-1/4" D Installation LF For Calc Installation LF For Wor Installation LF 1-1/2" D Installation LF For Calc Installation	36.00 eter x 24" Long, F Carbon Steel Co Quantity 72.00 iameter Pipe, 1-1 Quantity 440.00 clum Silicate With Quantity 440.00 k In Restricted W Quantity 440.00 iameter Pipe, 1-1 Quantity 1,210.00 clum Silicate With Quantity 1,210.00	x 301.29 Flexible Hose Connenction, Welded Unit Price x 216.86 1/2" Thick Fiberglass Unit Price x 7.72 n Canvas Jacket, Add Unit Price x 0.94 Vorking Space, Add Unit Price x 1.37 1/2" Thick Fiberglass Unit Price x 8.06 n Canvas Jacket, Add Unit Price x 8.06 n Canvas Jacket, Add Unit Price	ctors, Br x Insulatio x d x x Insulatio x d	1.0792 = raided Stainless Factor 1.0792 = on Factor 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 1.0792 = Factor 1.0792 1.0792 = On Factor 1.0792 = On Factor 1.0792 = Factor 1.0792 Factor Factor 1.0792 =	Steel Over Total \$16,850.54 Total \$3,665.83 Total \$446.36 Total \$650.54 Total \$650.54 Total \$10,525.01	\$3,665.8 \$446.3 \$650.8 \$10,525.0 \$1,292.7 \$1,867.3

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Proposal Review - CSI Detail

Proposal Review - CSI Detail (Continued) Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC PBSO - ISS HVAC - 8/7/2009 2:24:29PM **Review:**

	1306		LF 2" Diamel	er Pipe, 1-1/2	" Thick Fibe	erglass Insu	lation				\$4,050.45
			Installation	Quantity 440.00	×	Unit Price 8.53	X	Factor 1.0792	=	Total \$4,050.45	
12 15185	1306	1902	LF For Calciu	um Silicate Wi	th Canvas	Jacket, Add					\$512.84
				Quantity	.	Unit Price		Factor		Total	
			Installation	440.00	X	1.08	x	1.0792	=	\$512.84	
13 15185	1306	1999	LF For Work	In Restricted	Working Sp	ace, Add					\$702.78
•			· ·	Quantity		Unit Price		Factor		Total	
		-	Installation	440.00	х	1.48	x	1.0792	=	\$702.78	
<i>14</i> 15185	1307		LF 2-1/2" Dia	imeter Pipe, 1	-1/2" Thick	Fiberglass	Insulatio	n			\$3,328.04
				Quantity		Unit Price		Factor		Total	
			Installation	340.00	x	9.07	х	1.0792	=	\$3,328.04	
15 15185	1307	1902	LF For Calci	um Silicate Wi	th Canvas .	Jacket, Add					\$436.64
				Quantity		Unit Price		Factor		Total	
			Installation	340.00	X	1.19	x	1.0792	=	\$436.64	
16 15185	1307	1999	LF For Work	In Restricted	Working Sp	ace, Add					\$561.40
				Quantity		Unit Price		Factor		Total	
			Installation	340.00	х	1.53	x	1.0792	=	\$561.40	
17 15186	1003		SF 0.010" St	ainless Steel I	nsulation Ja	acket With	3ands F	ire Retardant		r	\$7,623.47
;				Quantity		Unit Price		Factor		Total	
			Installation	800.00	х	8.83	x	1.0792	=	\$7,623.47	
18 15671	2008		EA 50 Ton P	ackaged Chille	er With Ren	hote Air Co	oled Con	densers		\$1	14,961.13
				Quantity		Unit Price		Factor		Total	
			Installation	2.00	x	53,262.20	X	1.0792	=	\$114,961.13	
			Liebert Chiller ur	hit # XDC160A	A - (2) ea.	with remote	Conder	ning unit # DO	DL-	830A - (2) ea.	
19 15671	2008	2032	EA For Semi	Hermatic Con	npressor, A	dd				\$	20,154.60
				Quantity		Unit Price		Factor		Total	
			Installation	2.00	x	9,337.75	x	1.0792	=	\$20,154.60	
			'Liebert Chiller u	nit # XDC160A	A (2) an	with romote	· ^		CDL-	-830A - (2) ea.'	
120 15773	1004				vi - (2) ea.	with remote	Conde	ning unit # D			
	1001		EA 3 Ton Air	Cooled Comp					n Ty	pe, Includes \$2	212,579.67
	1001		EA 3 Ton Air	Cooled Comp Condenser	uter Room	Air Conditio		ect Expansio	n Tyj		212,579.67
	1001		EA 3 Ton Air Remote 0	Cooled Comp Condenser Quantity	uter Room	Air Conditio	oner, Dir	ect Expansio Factor		Total	212,579.67
	1001		EA 3 Ton Air Remote 0 Installation	Cooled Comp Condenser Quantity 15.00	uter Room	Air Conditio Unit Price 13,077.98	oner, Diro x	ect Expansio Factor 1.0792	=	Total \$211,706.34	212,579.67
	1001		EA 3 Ton Air Remote 0 Installation Demolition	Cooled Comp Condenser Quantity 15.00 1.00	uter Room x x	Air Conditio Unit Price 13,077.98 809.24	oner, Diro x x	ect Expansio Factor 1.0792 1.0792	=	Total	212,579.67
121 15773	۰	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling r	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD	uter Room x x	Air Conditio Unit Price 13,077.98 809.24	oner, Diro x x	ect Expansio Factor 1.0792 1.0792	=	Total \$211,706.34 \$873.33	
121 15773	1001	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling r	Cooled Comp Condenser Quantity 15.00 1.00 nodules # XD' rt Unit, Add	vuter Room x x V10SKE-1	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. &	oner, Diro x x	ect Expansio Factor 1.0792 1.0792 KR-1 - (4) ea.	=	Total \$211,706.34 \$873.33	
121 15773	۰	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling r	Cooled Comp Condenser Quantity 15.00 1.00 nodules # XD ¹ rt Unit, Add Quantity	uter Room x x V10SKE-1	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price	x x XDV8SI	ect Expansio Factor 1.0792 1.0792 KR-1 - (4) ea Factor	=	Total \$211,706.34 \$873.33 \$ Total	
121 15773	۰	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling 1 EA For Liebe Installation	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD ¹ rt Unit, Add Quantity 15.00	uter Room x x V10SKE-1 x	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85	oner, Dir x x XDV8SI x	ect Expansio Factor 1.0792 1.0792 KR-1 - (4) ea. Factor 1.0792	=	Total \$211,706.34 \$873.33	
	1001	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling 1 EA For Lieber Installation 'Liebert Cooling	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD	uter Room x x V10SKE-1 X V10SKE-1	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85	oner, Dir x x XDV8SI x	ect Expansio Factor 1.0792 1.0792 KR-1 - (4) ea. Factor 1.0792	=	Total \$211,706.34 \$873.33 \$ Total	\$24,004.38
	۰	9902	EA 3 Ton Air Remote 0 Installation Demolition Liebert Cooling 1 EA For Lieber Installation 'Liebert Cooling	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security	vter Room x x V10SKE-1 x V10SKE-1 g Grille	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. &	oner, Dir x x XDV8SI x	ect Expansio Factor 1.0792 (R-1 - (4) ea Factor 1.0792 (RR-1 - (4) ea	=	Total \$211,706.34 \$873.33 \$ Total \$24,004.38	\$24,004.38
	1001	9902	EA 3 Ton Air Remote C Installation Demolition Liebert Cooling n EA For Lieber Installation 'Liebert Cooling EA 24" x 24"	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity	vter Room x x V10SKE-1 x V10SKE-1 Grille	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price	x x XDV8Sł XDV8Sł XDV8S	ect Expansio Factor 1.0792 (R-1 - (4) ea Factor 1.0792 (RR-1 - (4) ea Factor	=	Total \$211,706.34 \$873.33 { Total \$24,004.38	\$24,004.38
	1001	9902	EA 3 Ton Air Remote C Installation Demolition Liebert Cooling n EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00	uter Room x x V10SKE-1 V10SKE-1 Grille x	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96	oner, Dir x x XDV8SI x	ect Expansio Factor 1.0792 (R-1 - (4) ea Factor 1.0792 (RR-1 - (4) ea	=	Total \$211,706.34 \$873.33 \$ Total \$24,004.38	\$24,004.3
122 15867	1001 5753		EA 3 Ton Air Remote C Installation Demolition Liebert Cooling r EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v	vter Room x x v10SKE-1 v10SKE-1 v Grille x v/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96	x x XDV8Sł XDV8Sł XDV8S	ect Expansio Factor 1.0792 (R-1 - (4) ea Factor 1.0792 (RR-1 - (4) ea Factor	=	Total \$211,706.34 \$873.33 { Total \$24,004.38	\$24,004.38 \$5,632.9
122 15867	1001	9902	EA 3 Ton Air Remote C Installation Demolition Liebert Cooling r EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v oring Tabs, Ad	vter Room x x V10SKE-1 V10SKE-1 Grille x v/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96	x x XDV8Sł XDV8Sł XDV8S	ect Expansio Factor 1.0792 1.0792 (R-1 - (4) ea Factor 1.0792 KR-1 - (4) ea Factor 1.0792	=	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91	\$24,004.38 \$5,632.9
122 15867	1001 5753		EA 3 Ton Air Remote C Installation Demolition Liebert Cooling r EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 nodules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v oring Tabs, Ac Quantity	vter Room x x V10SKE-1 V10SKE-1 v Grille x v/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96 Unit Price	x x XDV8Sł XDV8S XDV8S	ect Expansio Factor 1.0792 1.0792 (R-1 - (4) ea Factor 1.0792 KR-1 - (4) ea Factor 1.0792	= =	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91 Total	\$24,004.38 \$5,632.9
122 15867	1001 5753		EA 3 Ton Air Remote C Installation Demolition Liebert Cooling I EA For Liebert Cooling EA Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles EA For Anch Installation Installation	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v oring Tabs, Ac Quantity 12.00	vter Room x x V10SKE-1 V10SKE-1 Grille x v/ dampers id x	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96 Unit Price 39.38	x x XDV8Sł XDV8Sł XDV8S	ect Expansio Factor 1.0792 1.0792 (R-1 - (4) ea Factor 1.0792 KR-1 - (4) ea Factor 1.0792	= =	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91	\$5,632.9
122 15867 123 15867	1001 5753 5753	5791	EA 3 Ton Air Remote C Installation Demolition Liebert Cooling n EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles EA For Anch Installation 'A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD' rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v oring Tabs, Ad Quantity 12.00 - MD-AF200	vter Room x x V10SKE-1 V10SKE-1 v Grille x v/ dampers id x w/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96 Unit Price 39.38	x x XDV8Sł XDV8S XDV8S	ect Expansio Factor 1.0792 1.0792 (R-1 - (4) ea Factor 1.0792 KR-1 - (4) ea Factor 1.0792	= =	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91 Total	\$5,632.9
122 15867 123 15867	1001 5753		EA 3 Ton Air Remote C Installation Demolition Liebert Cooling n EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles EA For Anch Installation 'A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v coring Tabs, Ac Quantity 12.00 - MD-AF200 v config Tabs, Ac	vter Room x x V10SKE-1 V10SKE-1 vGrille x v/ dampers id x w/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96 Unit Price 39.38	x x XDV8Sł XDV8S XDV8S	ect Expansio Factor 1.0792 1.0792 KR-1 - (4) ea Factor 1.0792 KR-1 - (4) ea Factor 1.0792 Factor 1.0792	=	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91 Total \$5,632.91	\$5,632.91
121 15773 122 15867 123 15867 124 15867	1001 5753 5753	5791	EA 3 Ton Air Remote C Installation Demolition Liebert Cooling n EA For Lieber Installation 'Liebert Cooling EA 24" x 24" Installation A/C Floor grilles EA For Anch Installation 'A/C Floor grilles	Cooled Comp Condenser Quantity 15.00 1.00 modules # XD' rt Unit, Add Quantity 15.00 modules # XD Steel Security Quantity 12.00 - MD-AF200 v oring Tabs, Ad Quantity 12.00 - MD-AF200	vter Room x x V10SKE-1 V10SKE-1 vGrille x v/ dampers id x w/ dampers	Air Conditio Unit Price 13,077.98 809.24 - (11) ea. & Unit Price 1,482.85 - (11) ea. & Unit Price 434.96 Unit Price 39.38	x x XDV8Sł XDV8S XDV8S	ect Expansio Factor 1.0792 1.0792 (R-1 - (4) ea Factor 1.0792 (RR-1 - (4) ea Factor 1.0792 Factor	=	Total \$211,706.34 \$873.33 Total \$24,004.38 Total \$5,632.91 Total	212,579.67 224,004.38 \$5,632.91 \$509.99 \$818.34

Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

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			- ISS HVAC - 8/	/2000 L.21.1	201 101					
<i>125</i> 15867	5753	5793	EA For Rea	Operated Oppos	sed Blade Damper, A	٨dd				\$1,838.3 <i>1</i>
			Installation 'A/C Floor grille	Quantity 12.00 s - MD-AF200 w/	Unit Price x 141.95 dampers'	x	Factor 1.0792	Ě	Total \$1,838.31	
126 15938	1203				ng Valve Spring Load	ded, Self Adji	usting	<u></u>	9	515,420.8
			Installation 7/8" By pass co	Quantity 36.00 Introl valve at mod	Unit Price x 396.92 dules	X	Factor 1.0792	= \$	Total 15,420.82	
127 15938	1203	2121	EA For Low	Pressure Steam,	Add					\$1,118.9
			Installation	Quantity 36.00	Unit Price x 28.80	x	Factor	=	Total \$1,118.91	
128 15938	1205		EA 1-1/2" P		Mixing Valve Spring					\$2,437.9
			Installation 1-3/8" By pass	Quantity 4.00 controller valve R	Unit Price x 564.75 CH 1&2	X	Factor 1.0792	=	Total \$2,437.91	
129 15938	1205	2121		Pressure Steam,	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		\$188.4
			Installation		Unit Price x 43.66		Factor 1.0792		Total \$188.47	
130 15938	1207		EA 2-1/2" P		Mixing Valve Spring	Loaded, Self		j		\$5,659.5
			Installation 2-3/8" By pass	Quantity 4.00 controller valve R	Unit Price x 1,311.04 RCH 1 & 2	x	Factor 1.0792	=	Total \$5,659.50	
131 15938	1207	2121		Pressure Steam,						\$481.9
			Installation	Quantity 4.00	Unit Price x 111.65	x	Factor 1.0792	=	Total \$481.97	
							Subtot	al for 15	\$52	7,559.8
Section 1	6			1		a anna an anna an anna an an an an an an		a de la come	10 - ¹⁰ - 10	
132 16101	1003		EA Lock Ou	t/Tag Out Circuit	Breaker					\$206.2
			Installation	Quantity 13.00	Unit Price x 14.70	x	Factor 1.0792	=	Total \$206.24	
133 16112	1106		LF 1350 An	Duct COO N						
					V, 3 Phase, 3 Wire C	Copper Condu				\$519.7
			Installation	Quantity	Unit Price		Factor	-	Total	\$519.7
134 16120	1222			Quantity 1.00	Unit Price × 481.59	x	Factor 1.0792			
134 16120	1222	<u></u>		Quantity 1.00 G Cable - XLP (X Quantity	Unit Price x 481.59 HHW), 600 V, Single Unit Price	x e Stranded, P	Factor 1.0792 laced In (Factor	Conduit	Total \$519.73 Total	
134 16120 135 16120	-		MLF #14 AW	Quantity 1.00 G Cable - XLP (X Quantity 2.50	Unit Price x481.59 HHW), 600 V, Single	x e Stranded, P x	Factor 1.0792 laced In 0 Factor 1.0792	Conduit =	Total \$519.73 Total \$1,297.98	\$1,297.9
· ·	-		MLF #14 AW	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity	Unit Price × 481.59 HHW), 600 V, Single Unit Price × 481.09 HHW), 600 V, Single Unit Price	x Stranded, P x Stranded, P	Factor 1.0792 laced In 0 Factor 1.0792	Conduit = Conduit	Total \$519.73 Total \$1,297.98	\$1,297.9
· ·	1223		MLF #14 AW Installation MLF #12 AW Installation	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity 2.15	Unit Price x 481.59 HHW), 600 V, Single Unit Price x 481.09 HHW), 600 V, Single Unit Price	x e Stranded, P x e Stranded, P x	Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792	Conduit = Conduit =	Total \$519.73 Total \$1,297.98 Total	\$1,297.9 \$1,408.3
135 16120	1223		MLF #14 AW Installation MLF #12 AW Installation	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity 2.15 G Cable - XLP (X Quantity	Unit Price x 481.59 HHW), 600 V, Single Unit Price x 481.09 HHW), 600 V, Single Unit Price x 606.96	x e Stranded, P x e Stranded, P x e Stranded, P	Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792	Conduit = Conduit = Conduit	Total \$519.73 Total \$1,297.98 Total	\$1,297.9 \$1,408.3
135 16120	1223 1224		MLF #14 AW Installation MLF #12 AW Installation MLF #10 AW Installation	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity 2.15 G Cable - XLP (X Quantity 0.50	Unit Price × 481.59 HHW), 600 V, Single Unit Price × 481.09 HHW), 600 V, Single Unit Price × 606.96 HHW), 600 V, Single Unit Price	x e Stranded, P x e Stranded, P x e Stranded, P x	Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792	Conduit = Conduit = Conduit =	Total \$519.73 Total \$1,297.98 Total \$1,408.32 Total \$424.26	\$1,297.9 \$1,408.3 \$424.2
135 16120 136 16120 137 16120	1223 1224 1225		MLF #14 AW Installation MLF #12 AW Installation MLF #10 AW Installation	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity 2.15 G Cable - XLP (X Quantity 0.50 Cable - XLP (XH Quantity	Unit Price × 481.59 HHW), 600 V, Single Unit Price × 481.09 HHW), 600 V, Single Unit Price × 606.96 HHW), 600 V, Single Unit Price × 786.24	x e Stranded, P x e Stranded, P x e Stranded, P x Stranded, Pla	Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792 laced In (Factor 1.0792	Conduit = Conduit = Conduit = onduit	Total \$519.73 Total \$1,297.98 Total \$1,408.32 Total \$424.26	\$1,297.9 \$1,408.3 \$424.2
135 16120 136 16120	1223 1224 1225		MLF #14 AW Installation MLF #12 AW Installation MLF #10 AW Installation MLF #8 AWG Installation	Quantity 1.00 G Cable - XLP (X Quantity 2.50 G Cable - XLP (X Quantity 2.15 G Cable - XLP (X Quantity 0.50 Cable - XLP (XH Quantity 1.50	Unit Price x 481.59 HHW), 600 V, Single Unit Price x 481.09 HHW), 600 V, Single Unit Price x 606.96 HHW), 600 V, Single Unit Price x 786.24 HW), 600 V, Single Unit Price	x e Stranded, P x e Stranded, P x e Stranded, P x Stranded, Pla x	Factor 1.0792 Placed In C Factor 1.0792 Placed In C Factor 1.0792 Placed In C Factor 1.0792 aced In C Factor 1.0792	Conduit = Conduit = Conduit = onduit =	Total \$519.73 Total \$1,297.98 Total \$1,408.32 Total \$424.26 Total \$1,513.89	\$519.7 \$1,297.9 \$1,408.3 \$424.2 \$1,513.8 \$6,250.1

Proposal Review - CSI Detail

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Proposal Review - CSI Detail (Continued) Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

PBSO - ISS HVAC - 8/7/2009 2:24:29PM **Review:**

39 16120	8213		MLF 4/c #18 3	00 V Thermos	tat Cabi	le, Low Volt Cal	ole For I	HVAC System	Controls	\$853.3
			Installation	Quantity 1.00	x	Unit Price 790.69	x	Factor 1.0792	Total = \$853.31	
40 16120	8214		MLF 6/c #18 3			d Cable, In Con				\$1,890.43
1.			•	Quantity		Unit Price		Factor	Tota	
			Installation	2.60	x	673.73	x	1.0792		
41 16120	8302		CLF Red Teflo	on 2-Pair #18 (Gauge, [*]	Twisted Shielde	d Solid	CU		\$1,302.8
				Quantity		Unit Price		Factor	Tota	N
·			Installation	12.00	х	100.60	х	1.0792	= \$1,302.81	
42 16120	8401		MLF 4/c #18 A	WG "TC" Cop	per Cor	nductor Cable				\$3,213.0
				Quantity		Unit Price		Factor	Tota	ł
			Installation	3.00	x	992.41	X	1.0792	= \$3,213.03	
43 16121	1401		EA #8 Or #6 600 Volts		erminat	ion Lugs, Wrap	ped, No			\$1,871.3
			Installation	Quantity		Unit Price		Factor 1.0792	Tota = \$1,871.33	
44 16121	1511			60.00	X	28.90	X	<u> </u>		
44 16121	1511		EA Terminal 600 V	BIOCK, 12 Pt, 1	vire Siz	ze #22-#10 SCV	v Type,	NO Labor Wir	e remination,	\$606.3
				Quantity		Unit Price		Factor	Tota	
			Installation	4.00	x	140.46	х	1.0792	= \$606.34	
45 16121	1908	•••	EA #12 AWC	Fixture Conn	ection, l	Mechanical Solo	derless	Туре		\$2,189.2
				Quantity		Unit Price		Factor	Tota	l
			Installation	460.00	X	4.41	X	1.0792	= \$2,189.27	
46 16131	2152		EA RGS 3/4'	Plastic Bushi	ng Set \	Nith Locknuts, I	Mounted	Exposed On	Flat Wall	\$12.3
				Quantity		Unit Price		Factor	Tota	
			Installation	2.00	X	5.71	x	1.0792	= \$12.32	
47 16131	2152	2821	EA For Work	In Restricted	Working	g Space, Add		- -		\$3.4
			land a line of	Quantity		Unit Price		Factor	Tota	
			Installation	2.00	X	1.61	х	1.0792		
48 16131	2153		EA RGS 1" F	Plastic Bushing	Set Wi	ith Locknuts, Mo	ounted I	Exposed On F	lat Wall	\$23.8
			l	Quantity		Unit Price		Factor	Tota	
			Installation	3.00	X	7.35	x	1.0792	= \$23.80	
49 16131	2153	2821	EA For Work	In Restricted	Working	g Space, Add				\$6.6
			Installation	Quantity		Unit Price		Factor	Tota	
			·	3.00	<u>x</u>	2.04	x	1.0792		
50 16131	2154		EA RGS 1-1		hing Se	t With Locknuts	, Mount			\$97.1
			Installation	Quantity		Unit Price		Factor	Tota = \$97.13	
<i>51</i> 16131	2154	2821		10.00	X	9.00	<u>x</u>	1.0792	- 497.13	
07 10101	2134	2021	EA FOLVVOIR	In Restricted	vvorking			- .		\$26.7
			Installation	Quantity	V .	Unit Price	v	Factor 1.0792	Tota = \$26.76	
52 16131	2154			10.00	X hing So	2.48 t With Locknuts	Mount			\$97.1
					ning Se		, wourn			
			Installation	Quantity 10.00	x	Unit Price 9.00	x	Factor 1.0792	Tota = \$97.13	
53 16131	2154	2821	EA For Work	In Restricted						\$26.7
,				Quantity	••••	Unit Price		Factor	Tota	
			Installation	10.00	x	2.48	x	1.0792		
54 16131	2174		EA RGS 1-1			shing Set With I				\$115.6
			Wall			. –				
			Installation	Quantity		Unit Price		Factor	Tota	
			mstanauon	10.00	х	10.72	х	1.0792	= \$115.69	

Job Order Number: 08631.01 Job Order Name: PBSO - ISS HVAC D npen

Review:		PBSO	- ISS HVAC - 8/	7/2009 2:24	1:29PM						
<i>15</i> 5 16131	2174	2821	EA For Wo	rk In Restricted	Working	Space, Add					\$26.76
			Installation	Quantity		Unit Price		Factor		Total	
156 16131	2193			10.00	X	2.48	X	1.0792		\$26.76	
100 10101	2195		On Flat	Steel Insulated Wall	Groundi	ng Busning Se	et with Lo	CKNUTS, MO	unted Expose	a .	\$53.4
			Installation	Quantity		Unit Price		Factor		.Total	
157 16131	2193	2821		4.00	X	12.39	X	1.0792		\$53.49	
107 10101	2195	2021		rk In Restricted	vvorking						\$11.6
			Installation	Quantity 4.00	x	Unit Price 2.69	x	Factor 1.0792		Total \$11.61	
158 16131	2372		EA RGS 3/	4" Threaded Hut						.	\$21.5
				Quantity	,	Unit Price		Factor		Total	
			Installation	2.00	x	9.99	x	1.0792		\$21.56	
<i>15</i> 9 16131	2373		EA RGS 1"	Threaded Hubs	, Rain Ti	ght, Die Cast	Zinc				\$13.2
			1	Quantity		Unit Price		Factor		Total	
400 40404			Installation	1.00	X	12.29	X	1.0792	=	\$13.26	
160 16131	2433		EA RGS 1"	Coupling							\$7.73
			Installation	Quantity		Unit Price		Factor		Total	
161 16131	2434			2.00 1/4" Coupling	X	3.58	X	1.0792	-	\$7.73	
101 10101	2404		EA KGS I-			U.S. D.S.				· 	\$9.6
	·		Installation	Quantity 2.00	x	Unit Price 4.48	X	Factor 1.0792		Total \$9.67	
162 16131	2434	2821	EA For Wo	rk In Restricted N			~				\$2.3
				Quantity		Unit Price		Factor		Total	
			Installation	•	X	1.08	x	1.0792		\$2.33	
163 16131	2611		LF 1/2" EM	T Conduit, Mour	nted Exp	osed On Flat	Wall				\$1,104.02
				Quantity		Unit Price		Factor		Total	
			Installation	550.00	x	1.86	x	1.0792	=	\$1,104.02	
164 16131	2611	2821	LF For Wo	k In Restricted N	Working	Space, Add					\$290.8
			Installation	Quantity		Unit Price		Factor		Total	
165 16131	2612			550.00	X .	0.49	<u> </u>	1.0792	= · ·	\$290.84	
/00 10101	2012			T Conduit, Mour	nted Exp		Wali				\$1,976.5
			Installation	Quantity 825.00	v	Unit Price 2.22	v	Factor 1.0792	=	Total \$1,976.55	
166 16131	2612	2821	LF For Wo	k In Restricted V		· · · · · · · · · · · · · · · · · · ·	^	1.07.52		<u> </u>	\$480.7
				Quantity	vonting	Unit Price		Factor		Total	
-			Installation	825.00	x	0.54	x	1.0792		\$480.78	
167 16131	2613		LF 1" EMT	Conduit, Mounte	ed Expos	ed On Flat W	all				\$645.7
	·	• •		Quantity		Unit Price		Factor		Total	
			Installation	220.00	х	2.72	x	1.0792	=	\$645.79	• •
168 16131	2613	2821	LF For Wo	k In Restricted \	Working	Space, Add					\$140.0
· •			Installation	Quantity		Unit Price		Factor		Total	
169 16131	2614	· · · · · ·		220.00	X	0.59	x	1.0792	=	\$140.08	
103 10131	2014		LF 1-1/4" E	MT Conduit, Mo	ounted Ex		at VVall				\$2,584.04
			Installation	Quantity	×	Unit Price 3.28	x	Factor 1.0792	=	Total \$2,584.04	
			Installation	720 00			~	1.0132		Ψ=,00T.0T	
170 16131	2614	2821	·	730.00	X						\$507 0
170 16131	2614	2821	· · · · · · · · · · · · · · · · · · ·	730.00 k In Restricted V Quantity				Factor		Total	\$527.84

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Job Order Name: PBSO - ISS HVAC

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keview:		1000-	155 HVAC - 8/	1/2009 2.24	4.29P	IVI .					
171 16131	2634		EA 1-1/4" E	MT 90 Degree	Elbow,	Mounted Expos	ed On F	lat Wall			\$177.12
			Installation	Quantity 22.00	x	Unit Price 7.46	x	Factor 1.0792	=	Total \$177.12	
172 16131	2634	2821	EA For Wor	k In Restricted				1.07.52		<i>Q</i> (1).12	\$38.23
				Quantity	VVOINI	Unit Price		Factor		Total	φ00.20
			Installation	22.00	x	1.61	x	1.0792	=	\$38.23	
173 16131	2651		EA 1/2" EM			, Mounted Expos					\$115.15
				Quantity	1 0	Unit Price		Factor		Total	•••••
	_		Installation	55.00	x	1.94	X	1.0792	=	\$115.15	
174 16131	2651	2821	EA For Wor	k In Restricted	Workir	ng Space, Add					\$32.05
				Quantity		Unit Price		Factor		Total	
			Installation	55.00	х	0.54	x	1.0792	=	\$32.05	
175 16131	2652		EA 3/4" EM	F Set Screw Co	oupling	, Mounted Expos	ed On	Flat Wall			\$211.50
				Quantity		Unit Price		Factor		Total	
· · · ·	•		Installation	82.00	х	2.39	x	1.0792	=	\$211.50	
176 16131	2652	2821	EA For Wor	k In Restricted	Workir	ng Space, Add					\$57.52
				Quantity		Unit Price		Factor		Total	
			Installation	82.00	х	0.65	х	1.0792	=	\$57.52	
177 16131	2653		EA 1" EMT	Set Screw Cou	pling, N	Nounted Expose	d On Fla	at Wall			\$69.09
			1	Quantity		Unit Price		Factor		Total	
			Installation	22.00	х	2.91	X	1.0792	=	\$69.09	
178 16131	2653	2821	EA For Wor	k In Restricted	Workir	ng Space, Add					\$17.81
			Installation	Quantity		Unit Price		Factor		Total	
170 40404	0.05.4			22.00	X	0.75	x	1.0792	=	\$17.81	
179 16131	2654		EA 1-1/4" E		Couplir	ng, Mounted Exp	osed O	n Flat Wall			\$306.92
			Installation	Quantity		Unit Price		Factor	_	Total	
180 16131	2654	2821		72.00	<u>x</u>	3.95	X	1.0792		\$306.92	
	2004	2021	EA FOLVOI	k In Restricted	vvorkir						\$75.37
			Installation	Quantity	v	Unit Price 0.97	x	Factor 1.0792	=	Total \$75.37	
181 16131	2672	· · · · · · · · · · · · · · · · · · ·	EA 3/4" EM	72.00		ing, Mounted Ex				φ10.01	\$6.15
					Coupi	-	poseu c			Tetal	φ 0. 10
			Installation	Quantity 2.00	x	Unit Price 2.85	x	Factor 1.0792	=	Total \$6.15	
182 16131	2672	2821	EA For Wor	< In Restricted			<u> </u>				\$1.62
				Quantity		Unit Price		Factor		Total	ψ1.02
			Installation	2.00	x	0.75	x	1.0792	=	\$1.62	
183 16131	2673		EA 1" EMT	Compression C	ouplin	g, Mounted Expo	sed On	Flat Wall			\$4.48
				Quantity		Unit Price		Factor		Total	+
			Installation	1.00	x	4.15	x	1.0792	=	\$4.48	
184 16131	2673	2821	EA For Wor	In Restricted	Workir	ng Space, Add					\$1.17
			•	Quantity		Unit Price		Factor		Total	
			Installation	1.00	х	1.08	x	1.0792	=	\$1.17	
185 16131	2691		EA 1/2" EM	F Box Connecto	or With	Set Screw					\$105.76
				Quantity		Unit Price		Factor		Total	
			Installation	50.00	х	1.96	x	1.0792	=	\$105.76	
186 16131	2691	2821	EA For Wor	k In Restricted	Workir	ng Space, Add					\$29.14
			Installation	Quantity		Unit Price		Factor		Total	
			Installation	50.00	х	0.54	x	1.0792	=	\$29.14	

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

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keview:		PBSO	- ISS HVAC - 8	///2009 2:24	1:29PI	М					
<i>18</i> 7 16131	2692		EA 3/4" EN	IT Box Connecto	or With	Set Screw					\$130.58
				Quantity		Unit Price		Factor		Total	
			Installation	50.00	X	2.42	x	1.0792	= '	\$130.58	
<i>188</i> 16131	2692	2821	EA For Wo	rk In Restricted	Workin	g Space, Add					\$35.07
				Quantity		Unit Price		Factor		Total	
			Installation	50.00		0.65	X	1.0792	=	\$35.07	
189 16131	2693		EA 1" EMT	Box Connector	With S	et Screw					\$18.78
			Installation	Quantity		Unit Price		Factor	4.5	Total	
100 10101					X	2.90	×	1.0792	=	\$18.78	
190 16131	2693	2821	EA For Wo	rk in Restricted	Workin						\$4.86
			Installation	Quantity		Unit Price		Factor	-	Total \$4.86	
	2694			6.00	X	0.75	X	1.0792		φ4.00	* 00.00
191 10131	2094		EA 1-1/4" E							- <i>i</i> ·	\$82.36
• •	·		Installation	Quantity	V		x	Factor 1.0792		Total \$82.36	
192 16131	2694	2821		18.00 rk In Restricted				1.07.52		ψ02.00	\$20.98
	2001	2021						Factor		Total	φ20.90
			Installation	18.00		Unit Price 1.08	x	1.0792		\$20.98	
193 16131	2732		EA 3/4" EN	IT Box Connect			~				\$40.69
				Quantity		Unit Price		Factor		Total	\$10.00
			Installation	10.00		3.77	x	1.0792	=	\$40.69	
194 16131	2732	2821	EA For Wo								\$8.0
				Quantity		Unit Price		Factor		Total	
			Installation	10.00	x	0.75	x	1.0792	=	\$8.09	
195 16131	2733		EA 1" EMT	Box Connector	Comp	ression					\$10.99
				Quantity		Unit Price		Factor		Total	
			Installation	2.00	x	5.09	X	1.0792	=	\$10.99	
<i>196</i> 16131	2733	2821	EA For Wo	ork In Restricted	Workin	g Space, Add					\$1.86
			1	Quantity		Unit Price		Factor		Total	
			Installation	2.00		0.86	x	1.0792	=	\$1.86	
197 16131	2802		EA 3/4" LB	, LR, Or LL Fittin	ng With	Cover And Set	Screw				\$62.55
		• • • • •		Quantity				Factor		Total	
400 40404			Installation	4.00	X	14.49	x	1.0792	=	\$62.55	
198 16131	2802	2821	EA For Wo	rk In Restricted	Workin	g Space, Add					\$11.6 ⁻
			Installation	Quantity		Unit Price		Factor	-	Total \$11.61	
199 16131	2803		······	4.00	X	2.69	<u>×</u>	1.0792	-	φ11.01	
10001	2005		CA ILD, I	R, Or LL Fitting	with C		crew	F		.	\$41.57
			Installation	Quantity 2.00	x	Unit Price 19.26	x	Factor 1.0792	=	Total \$41.57	
200 16131	2803	2821		ork In Restricted			^	1.07.52			\$7.19
				Quantity	VV OI KIII	Unit Price		Factor		Total	Ψ7.15
			Installation	2.00	x	3.33	x	1.0792	=	\$7.19	
201 16131	2804		EA 1-1/4" I	B, LR, Or LL Fi							\$54.6
				Quantity		Unit Price		Factor		Total	<i>to</i>
			Installation	2.00	x	25.32	x	1.0792	=	\$54.65	
202 16131	2804	2821	EA For Wo	ork In Restricted							\$8.83
				-						T . (.)	
				Quantity		Unit Price		Factor		Total	

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Proposal Review - CSI Detail

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

Review: PBSO - ISS HVAC - 8/7/2009 2:24:29PM

000 40404	4440		- 133 HVAC - 8//								
203 16131	4112		LF 3/4" PVC		Conduit	With Coupling,	Direct E		Coupling		\$70.80
			Installation	Quantity 40.00	x	Unit Price 1.64	x	Factor 1.0792	=	Total \$70.80	
204 16131	4112	4189	LF For Sche	dule 80, Add							\$5.6
				Quantity		Unit Price		Factor		Total	
			Installation	20.00	X	0.26	X	1.0792		\$5.61	
205 16131	4132		EA 3/4" PVC	Schedule 40 I	Elbow 9	0 Degree Direc	t Burial,	Glued Coupl	ing		\$54.6
			·	Quantity		Unit Price		Factor		Total	
		i	Installation	6.00	x	8.44	X	1.0792	=	\$54.65	
206 16131	4132	4189	EA For Sche	dule 80, Add							\$6.3
			Installation	Quantity		Unit Price		Factor	_	Total	
207 16131	4152			6.00	X	0.98	<u>x</u>	1.0792	<u> </u>	\$6.35	
207 10131	4152		EA 3/4" PVC		Adapter	, Direct Burial, (Glued C				\$102.39
			Installation	Quantity	.,	Unit Price		Factor 1.0792	=	Total \$102.39	
208 16131	4152	4189		16.00 dule 80, Add	x	5.93	x	1.0792		\$102.35	\$11.5
200 10101	4152	4103				Hall Dates		-		T . (.)	\$11.5
			Installation	Quantity 16.00	X	Unit Price 0.67	x	Factor 1.0792	=	Total \$11.57	
209 16131	8212		LF 1/2" Flex	ible Metallic Co		0.07		1.01.02			\$271.96
				Quantity	muun	Unit Price		Factor		Total	ψ271.30
			Installation	180.00	x	1.40	x	1.0792	=	Total \$271.96	
210 16131	8212	9199	LF For Work	In Restricted							\$67.9
				Quantity		Unit Price		Factor		Total	<i>QU<i>1</i>.01</i>
		- -	Installation	180.00	x	0.35	x	1.0792	=	\$67.99	
211 16131	8213		LF 3/4" Flex	ble Metallic Co	onduit						\$25.58
				Quantity		Unit Price		Factor		Total	
			Installation	15.00	х	1.58	x	1.0792	=	\$25.58	
212 16131	8213	9199	LF For Work	In Restricted	Working	g Space, Add					\$6.15
			1	Quantity		Unit Price		Factor		Total	
<u></u>			Installation	15.00	X	0.38	х	1.0792		\$6.15	
213 16131	8214		LF 1" Flexib	e Metallic Con	duit						\$20.94
	· · · ·		Installation	Quantity		Unit Price		Factor	_	Total	
214 16131	0014	0100		10.00	<u>x</u>	1.94	X	1.0792		\$20.94	·····
214 10131	8214	9199	LF For Work	In Restricted	Working						\$4.42
			Installation	Quantity		Unit Price		Factor	-	Total \$4.42	
215 16131	8215			10.00	X	0.41	x	1.0792			
210 10101	0215			exible Metallic	Conduit						\$70.90
			Installation	Quantity 30.00	v	Unit Price 2.19		Factor 1.0792	=	Total \$70.90	
216 16131	8215	9199		In Restricted	X		x	1.0752		<i>\\</i>	\$14.25
	0210	0100			vvorking			Feeter		Tatal	φ14.23
			Installation	Quantity 30.00	x	Unit Price 0.44	x	Factor 1.0792	· =	Total \$14.25	
217 16131	8232		EA 1/2" Flex	ible Straight Co			~				\$59.79
				Quantity		Unit Price		Factor		Total	ψ00.1
			Installation	20.00	x	2.77	X	1.0792	=	\$59.79	
218 16131	8232	9199	EA For Work	In Restricted							\$12.7
				Quantity		Unit Price		Factor		Total	
			Installation	20.00	х	0.59	x	1.0792	=	\$12.73	

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Proposal Review - CSI Detail-

Proposal Review - CSI Detail (Continued) Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

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(eview:		FBSU	- 155 HVAC - 8/	//2009 2:24	4:29Pi						
219 16131	8233		EA 3/4" Flex	kible Straight C	onnecto	ors, Plain					\$6.91
			Installation	Quantity		Unit Price 3.20		Factor 1.0792		Total \$6.91	
220 16131	8233	9199		2.00 k In Restricted	X Workin		x	1.0792			\$1.5
		0,00		Quantity	VVOINII	Unit Price		Factor		Total	φ1.0
			Installation	2.00	x	0.71	x	1.0792	=	\$1.53	
221 16131	8235		EA 1-1/4" F	lexible Straight	Conne	ctors, Plain	•			• • • • • • • • • • • • • • • • • • •	\$30.1
			a tagat sa sa sa sa sa	Quantity				Factor		Total	
			Installation	4.00	X	6.98	x	1.0792	=	\$30.13	
222 16131	8235	9199	EA For Wor	k In Restricted	Workin	g Space, Add					\$5.0
				Quantity		Unit Price		Factor		Total	
			Installation	4.00	х	1.18	x	1.0792	=	\$5.09	
223 16131	8235		EA 1-1/4" F	lexible Straight	Conne	ctors, Plain					\$7.5
				Quantity		Unit Price		Factor		Total	
			Installation	1.00	х	6.98	x	1.0792	=	\$7.53	
224 16131	8235	9199	EA For Wor	k In Restricted	Workin	g Space, Add					\$1.2
				Quantity		Unit Price		Factor		Total	
		· · · · · · · · · · · · · · · · · · ·	Installation	1.00	x	1.18	x	1.0792	=	\$1.27	
225 16131	8272		EA 1/2" Flex	kible 90 Degree	Conne	ector, Plain					\$70.9
			Installation	Quantity		Unit Price		Factor		Total	
			Installation	16.00	x	4.11	x	1.0792	=	\$70.97	
226 16131	8272	9199	EA For Wor	k In Restricted	Workin	ig Space, Add			-		\$14.3
			Installation	Quantity		Unit Price		Factor	_	Total	
007 40404	0070			16.00	x	0.83	X	1.0792		\$14.33	
227 16131	8273		EA 3/4" Flex	kible 90 Degree	Conne	ector, Plain					\$11.3
			Installation	Quantity		Unit Price		Factor	_	Total	
228 16131	8273	9199		2.00	X	5.27	x	1.0792		\$11.37	
220 10131	0215	9199	EA For Wor	k In Restricted	vvorkin			_		·	\$2.0
			Installation	Quantity		Unit Price		Factor	-	Total \$2.03	
229 16131	8274			2.00	X	0.94	x	1.0792		\$2.03	A7 0
220 10101	0214			ole 90 Degree C	Jonneci						\$7.8
			Installation	Quantity 1.00	x	Unit Price 7.29	X	Factor 1.0792	=	Total \$7.87	
230 16131	8274	9199	EA For Wor	k In Restricted				1.0792			\$1.2
				Quantity	V V VI KIN	Unit Price		Factor		Total	Ψ1.2
			Installation	1.00	x	1.18	x	1.0792	±	Total \$1.27	
231 16131	8275		EA 1-1/4" F				~			,	\$47.8
				Quantity	00 0011	Unit Price		Factor		Total	ψ+1.0
			Installation	4.00	x	11.09	x	1.0792	= .	\$47.87	
232 16131	8275	9199	EA For Wor	k In Restricted			~				\$6.0
				Quantity		Unit Price		Factor		Total	
			Installation	4.00	x	1.41	x	1.0792	-	\$6.09	
233 16131	8413		LF 3/4" Nor	-Metallic Liquid						<u>.</u>	\$41.3
				Quantity	5	Unit Price		Factor		Total	
			Installation	12.00	x	3.19	x	1.0792	=	\$41.31	
234 16131	8433		EA 3/4" Nor	-Metallic Straig	ht Con				•	<u></u>	\$20.7
				•						- · ·	
				Quantity		Unit Price		Factor		Total	

Proposal Review - CSI Detail

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Proposal Review - CSI Detail (Continued) Job Order Number: 08631.01 Job Order Name: PBSO - ISS HVAC

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\$32.57					gle Connector	egree Ar	n-Metallic 90 De	EA 3/4" Non		8453	235 16131
	Total		Factor		Unit Price		Quantity	La de Bart			
	\$32.57	=	1.0792	x	15.09	x	2.00	Installation	· · · · · · · · · · · · · · · · · · ·		
\$618.99					eep	2-1/8" D	re Steel Box X 2	EA 4" Squar		1102	236 16134
	Total	_	Factor		Unit Price		Quantity	Installation			
	\$618.99		1.0792	x	11.03	<u>X</u>	52.00			1104	237 16134
\$161.49						Jover	re Steel Blank (EA 4" Squar		1104	237 10134
	Total \$161.49	=	Factor 1.0792		Unit Price	.	Quantity	Installation			
	\$101.49		1.0792	X	3.48	X Ding 1	43.00 Square Cut Tile			4301	238 16134
\$59.93	.		- ·	ount		rking, i		LA 3/4,4 c		4001	200 10104
	Total \$59.93	=	Factor 1.0792	x	Unit Price 6.17	x	Quantity 9.00	Installation			
\$43.47							Weatherproof,	EA 1 Gang.	•	6216	239 16134
940.47		5/ 4 1(10	nui cover,	licealeu v	2-5/6 50, 00		utlet Box	Solid Ou			
	Total		Factor		Unit Price		Quantity	Installation			
	\$43.47	=	1.0792	x	40.28	x	1.00			4404	040 40405
\$95.31				luded	-	sure, H	'NEMA 1 Enclo	EA 6"x6"x6"		1131	240 16135
	Total	-	Factor		Unit Price		Quantity	Installation			
	\$95.31	_	1.0792	×	44.16	X	2.00			1132	241 16135
\$239.71				luded		sure, H	NEMA 1 Enclo	EA 8"x8"x6"		1132	247 10135
	Total \$239.71	-	Factor 1.0792		Unit Price		Quantity	Installation			
<u> </u>	ψ233.71	-	1.0792	X	55.53	X	4.00			1211	242 16135
\$27.25	÷			uaea		sure, S	NEMA 1 Enclo	LA 4 X4 X3		1211	242 10100
	Total \$27.25	=	Factor 1.0792	x	Unit Price 25.25	x	Quantity 1.00	Installation			
\$246.41	<i>\\</i>	······	1.07.52				20 V Isolated Gr	EA 20 A. 120		1243	243 16140
φ 240.4 Ι	Total		Factor		Unit Price		Quantity				
	\$246.41	=	1.0792	x	25.37	x	9.00	Installation			
\$31.67			·····				, 120 V, GFI, W	EA 20 Amp.		1284	244 16140
QQ1 . Q 1	Total		Factor		Unit Price	P	Quantity				
	\$31.67	= .	1.0792	x	29.35	X	1.00	Installation			
\$31.67				ceptacle	····	eatherp	, 120 V, GFI, W	EA 20 Amp,		1284	245 16140
	Total		Factor	•	Unit Price	•.	Quantity				
	\$31.67	=	1.0792	x	29.35	x	1.00	Installation			
\$32.83			n Finish	: With Sat	vitch Plate Note	Steel Sv	302 Stainless	EA 1 Gang,		4131	246 16140
	Total		Factor		Unit Price		Quantity				
	\$32.83	=	1.0792	x	3.38	x	9.00	Installation			
\$38.74	plex	lote: Dup	Mounting N	al Device I	over, For Vertic	proof C	plastic Weather cle	EA Thermop receptac		4204	247 16140
	Total		Factor		Unit Price		Quantity	Installation			
	\$38.74		1.0792	x	35.90	X	1.00	Installation		4404	0.40.40470
\$330.20	1 Phase,	600 V, 1	/ith Fuses,	vy Duty, V	, NEMA 1, Hea	t Switch	used Disconnec	EA 30 A, Fu 2 Pole		1121	248 16170
	Total		Factor		Unit Price		Quantity				
	\$330.20	=	1.0792	x	305.97	x	1.00	Installation	· .		
\$1,503.54	⁷ , 3	s, 600 V,	With Fuses	avy Duty, '	h, NEMA 1, He	ct Switc	used Disconne	EA 100 A, F Phase		1143	249 16170
	Total		Factor		Unit Price		Quantity	Install+t:	•	·	
	\$1,503.54		1.0792	x	696.60	x	2.00	Installation			
\$8,229.07	ase	/, 3 Phas	vitch, 240 \	onnect Sv	leavy Duty Disc	1A 3R, H	on-Fused, NEM	EA 600 A No		2236	250 16170
	Total		Factor		Unit Price		Quantity	Installation			
	\$8,229.07	=	1.0792	х	3,812.58	х	2.00	Installation			

Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

PBSO - ISS HVAC - 8/7/2009 2:24:29PM **Review:**

2 <i>51</i> 16181	1221		EA 30 Amp,	250 Volt, Curre	ent Limi	iting Fuse RK1,	Ferrule	Туре			\$80.68
				Quantity		Unit Price		Factor		Total	
			Installation	6.00	x	12.46	х	1.0792	=	\$80.68	
252 16181	1254		EA 100 Am	o, 250 Volt, Cur	rent Lin	niting Fuse RK1	, Blade	Туре .			\$325.06
				Quantity		Unit Price		Factor		Total	
			Installation	8.00	х	37.65	х	1.0792	=	\$325.06	
253 16190	1911		EA Lay-in/T	roffer Support -	Straigh	nt Lip Type					\$29.53
			Installation	Quantity		Unit Price		Factor		Total	
			Installation	16.00		1.71	X	1.0792	=	\$29.53	
254 16190	2211		EA EMT Co	nduit Clamps, I	P1426,	1/2"					\$212.60
			Installation	Quantity		Unit Price		Factor		Total \$212.60	
255 16190	2212			100.00	X	1.97	X	1.0792	-	φ212.00	<u> </u>
200 10190	2212		EA EMT Co	nduit Clamps, F	-1427,					· · · ·	\$339.95
			Installation	Quantity		Unit Price		Factor 1.0792		Total \$339.95	
256 16190	2212	5601		150.00	X		X	1.0792		φ000.00	¢76.00
-30 10130	2216	5001	EA For Wor	k In Restricted	vvorkin			-		~ ()	\$76.08
			Installation	Quantity 150.00	x	Unit Price 0.47	x	Factor 1.0792		Total \$76.08	
257 16190	2213		EA EMT Co	nduit Clamps, F			<u>^</u>	1.07.52		<i></i>	\$104.90
						Unit Price		Factor		Total	φ10 4 .30
			Installation	40.00	x	2.43	x	1.0792		\$104.90	
258 16190	2213	5601	EA For Wor	k In Restricted						· · · · · · · · · · · · · · · · · · ·	\$23.74
				Quantity		Unit Price		Factor		Total	420 77
			Installation	40.00		0.55	x	1.0792		\$23.74	
259 16190	2214		EA EMT Co	nduit Clamps, F	P1429,	1-1/4"					\$377.72
				Quantity		Unit Price		Factor		Total	
			Installation	140.00	х	2.50	x	1.0792	=	\$377.72	
260 16190	2214	5601	EA For Wor	k In Restricted	Workin	g Space, Add					\$83.10
				Quantity		Unit Price		Factor		Total	
		. <u></u>	Installation	140.00	X	0.55	x	1.0792	=	\$83.10	
261 16190	2518		EA Offset B	racket 6-TI-O, 3	3/8"			•			\$24.17
			: Imatallation	Quantity		Unit Price		Factor		Total	
			Installation	16.00	x	1.40	x	1.0792	=	\$24.17	
262 16190	2615		EA 2-BR-B,	Bridle Ring, 1/2	2"						\$38.31
			Installation	Quantity		Unit Price		Factor	_	Total	
263 16190	2616			50.00	X	0.71	x	1.0792		\$38.31	
203 10190	2616		EA 2-BR-12	, Bridle Ring, 3	/4"	*					\$54.39
			Installation	Quantity		Unit Price		Factor	=	Total \$54.39	
264 16190	2617			70.00 , Bridle Ring, 1	X	0.72	x	1.0792			675 70
	2017			-	-1/4	Halt Daise		Feeter		Tatal	\$75.76
			Installation	Quantity 90.00	x	Unit Price 0.78	x	Factor 1.0792	=	Total \$75.76	
265 16190	2734		C 14-1/2"			Tensile Strengtl					\$38.85
				Quantity		Unit Price		Factor		Total	\$00.00
			Installation	3.00	x	12.00	x	1.0792	=	\$38.85	
266 16190	3103		EA 1/4" x 4'			Drilling In Cond					\$949.70
						•	, 50	•			
• •				Quantity		Unit Price		Factor		Total	

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Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

PBSO - ISS HVAC - 8/7/2009 2:24:29PM **Review:**

267 16190	4801		EA 1/4" Mul	ti-Set Anchor 1	" Min D	epth In Concret	e				\$2,456.26
			Installation	Quantity		Unit Price	-	Factor		Total	φ <u></u> , 100.20
269 16100	4004	0044		400.00	X	5.69	x	1.0792	=	\$2,456.26	
268 16190	4801	9911	EA For Wor	k In Restricted	Workin						\$712.27
			Installation	Quantity		Unit Price		Factor 1.0792	=	Total \$712.27	
269 16330	2603	······.		400.00	X	1.65 Transformer, 3 F	X				¢7.400.00
	2000				277 V,		-nase, o		ii Puipo	-	\$7,426.95
			Installation	Quantity 1.00	x	Unit Price 6,881.90	x	Factor 1.0792		Total \$7,426.95	
270 16470	7151		EA 70-225			Circuit Breaker					\$2,789.28
				Quantity		Unit Price		Factor		Total	· · · · · · · · · · · · · · ·
			Installation	2.00	x	1,292.29	x	1.0792	= .	\$2,789.28	
271 16470	7157		EA Shunt Ti	ip, Factory Inst	alled						\$1,136.87
				Quantity		Unit Price		Factor		Total	
			Installation	4.00	х	263.36	x	1.0792	=	\$1,136.87	
272 16470	8202			A, Type EHB, 2	Pole C	ircuit Breaker P	anel Mo	unted, WRI, 6	300 V, M	Violded	\$641.39
			Case	Quantity		Unit Price		Factor		Total	
			Installation	2.00	x	297.16	x	1.0792	=	\$641.39	
273 16471	2207					, 120/240 V, 3 V	Vire, 1 F	hase Panelb	oard, M	lain Lugs,	\$1,317.11
			Assemb	led, 24 Circuit (Quantity	Capacit	y Unit Price		Factor		Total	
			Installation	1.00	x	1,220.45	x	1.0792	=	Total \$1,317.11	
274 16471	4311		EA 1 Pole, 2			nch Circuit Brea		00 Amp linte	rrupting	Capacity	\$463.46
			· ·	Quantity	,	Unit Price		Factor		Total	,
			Installation	7.00	x	61.35	x	1.0792	=	\$463.46	
275 16471	4311	4391	EA For Bolt-	On, Add							\$78.72
			• · · • •	Quantity		Unit Price		Factor		Total	
			Installation	7.00	X	10.42	x	1.0792	=	\$78.72	
276 16502	6406		PTA PS 1 11								\$164.56
			EA Daybrite	15' Whip PC-1	2-2E-1	5					
			-	Quantity		Unit Price		Factor	_	Total	,
77 16540	4000		Installation	Quantity 4.00	x	Unit Price 38.12	x	1.0792		\$164.56	
277 16510	1332		Installation EA 2' x 2' La	Quantity 4.00	x	Unit Price		1.0792		\$164.56	
277 16510	1332		Installation EA 2' x 2' La ballast.	Quantity 4.00	x	Unit Price 38.12		1.0792		\$164.56	
			Installation EA 2' x 2' La ballast. Installation	Quantity 4.00 y-In/Troffer Pri Quantity 4.00	x smatic x	Unit Price 38.12 Lens Fluorescer Unit Price 156.04	nt Fixtur	1.0792 e, (4T8) Note Factor 1.0792	: With e	\$164.56 electronic Total \$673.59	
	1332		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La	Quantity 4.00 y-In/Troffer Pri Quantity 4.00	x smatic x	Unit Price 38.12 Lens Fluorescer Unit Price	nt Fixtur	1.0792 e, (4T8) Note Factor 1.0792	: With e	\$164.56 electronic Total \$673.59	\$673.59
			Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast.	Quantity 4.00 y-In/Troffer Pri Quantity 4.00	x smatic x	Unit Price 38.12 Lens Fluorescer Unit Price 156.04	nt Fixtur	1.0792 e, (4T8) Note Factor 1.0792	: With e	\$164.56 electronic Total \$673.59	\$673.59
			Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation	Quantity 4.00 y-In/Troffer Pri Quantity 4.00 y-In/Troffer Pri Quantity 0.00	x smatic x	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89	nt Fixtur	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792	: With e = : With e =	\$164.56 electronic Total \$673.59 electronic	\$673.59
278 16510	1341		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition	Quantity 4.00 ay-In/Troffer Pri Quantity 4.00 ay-In/Troffer Pri Quantity 0.00 4.00	x smatic x smatic x x x	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89 16.71	nt Fixture x nt Fixture x x	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792	: With e = : With e =	\$164.56 electronic Total \$673.59 electronic Total	\$673.59
278 16510			Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition	Quantity 4.00 ay-In/Troffer Pri Quantity 4.00 ay-In/Troffer Pri Quantity 0.00 4.00	x smatic x smatic x x x	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89	nt Fixture x nt Fixture x x	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792	: With e = : With e =	\$164.56 electronic \$673.59 electronic Total \$0.00	\$673.59 \$72.13
278 16510	1341		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition EA Remove	Quantity 4.00 y-In/Troffer Pri Quantity 4.00 y-In/Troffer Pri Quantity 0.00 4.00 And Reinstall I Quantity	x smatic smatic x x x x x x ay-In I	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89 16.71 Fluorescent Ligh Unit Price	nt Fixture	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792	: With e = : With e = =	\$164.56 electronic Total \$673.59 electronic Total \$0.00 \$72.13 Total	\$673.59 \$72.13
278 16510 279 16514	1341 1001		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition EA Remove Installation	Quantity 4.00 y-In/Troffer Pri Quantity 4.00 y-In/Troffer Pri Quantity 0.00 4.00 And Reinstall I Quantity 13.00	x smatic smatic x smatic x x _ ay-In I	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89 16.71 Fluorescent Ligh Unit Price 41.78	nt Fixture x nt Fixture x x x t Fixture x	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792	: With e = : With e = =	\$164.56 electronic \$673.59 electronic Total \$0.00 \$72.13 Total \$586.16	\$673.59 \$72.13 \$586.16
278 16510 279 16514	1341		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition EA Remove Installation	Quantity 4.00 y-In/Troffer Pri Quantity 4.00 y-In/Troffer Pri Quantity 0.00 4.00 And Reinstall I Quantity 13.00 I Control Relay	x smatic smatic x smatic x x _ ay-In I	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89 16.71 Fluorescent Ligh Unit Price 41.78 20 V Coil 12 Co	nt Fixture x nt Fixture x x x t Fixture x	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792 Factor 1.0792	: With e = : With e = =	\$164.56 electronic \$673.59 electronic Total \$0.00 \$72.13 Total \$586.16	\$673.59 \$72.13 \$586.16
277 16510 278 16510 279 16514 280 16915	1341 1001		Installation EA 2' x 2' La ballast. Installation EA 2' x 4' La ballast. Installation Demolition EA Remove Installation	Quantity 4.00 y-In/Troffer Pri Quantity 4.00 y-In/Troffer Pri Quantity 0.00 4.00 And Reinstall I Quantity 13.00	x smatic smatic x smatic x x _ ay-In I	Unit Price 38.12 Lens Fluorescer Unit Price 156.04 Lens Fluorescer Unit Price 99.89 16.71 Fluorescent Ligh Unit Price 41.78	nt Fixture x nt Fixture x x x t Fixture x	1.0792 e, (4T8) Note Factor 1.0792 e, (2T8) Note Factor 1.0792 1.0792	: With e = : With e = =	\$164.56 electronic \$673.59 electronic Total \$0.00 \$72.13 Total \$586.16	\$673.59

\$71,690.53 Subtotal for 16

Section 18

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Proposal Review - CSI Detail

Job Order Number: 08631.01

Job Order Name: PBSO - ISS HVAC

Review: PBSO - ISS HVAC - 8/7/2009 2:24:29PM

Proposal Review Total	· ·	\$750,855.27
	Subtotal for 18	\$920.00
and the second	t Price Factor 800.00 x 1.1500 = \$9	Total 20.00
281 18000 8631 EA Structural Design A/C pads		\$920.00

Proposal Review Total

Proposal Review - CSI Detail

This job order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

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August 11, 2009	Detailed Scope of Work Job Order Construction Services	A BUACH COL
Loc # 108 Joc#: 08631.01	PBSO - ISS HVAC CJC Bldg A, Administration, 3228 Gun Club Road 3228 Gun Club Road, WEST PALM BEACH	RORIDA
	Preliminary Revised X Final	
JOC Coordinator:	Daniel Racette	
Scope of Work:		an a
	Project #08631.01 PBSO ISS -HVAC	

Location: 3228 Gun Club Road West Palm Beach, Fl

Scope of work:

The Contractor shall provide all labor, materials, structural engineering, Fire alarm drawings and permits required to install (2) two Liebert 45 tons refrigerant chillers model XDC160. The system shall include all utilities associates with this system to include, piping, electrical, cooling module and suspended track system to support all refrigerant piping. All work shall done in accordance with the drawings provided by Gartek engineering. The scope will also include the installation of (2) two concrete pads surrounded by 8 concrete bollards .The Contractor shall include the installation of 4 new 2 x 2 lighting fixtures. The contractor shall purchase and install 12 new floor grilles.

Responsibility

- 1- PBSO or Facilities management shall provide escort when working in area such as Armory or evidence section
- 2- PBSO ISS shall remove all equipment in the area where the new chillers are to be installed
- 3- PBSO ISS shall remove the shelving within the ISS located on the south wall where the electrical panel and both a/c disconnect are to be installed.

Mechanical

All work shall be done in accordance with the drawings provided by Gartek engineering.

Electrical

All work shall be done in accordance with the drawings provided by Gartek engineering.

- 1- Any exterior disconnect shall be of Stainless steel construction.
- 2- Any exterior piping shall be of ridgit pipe construction EMT will be acceptable on the interior of the building.

Structural (concrete pads)

- 1- The Contractor shall provide engineering for the concrete pads
- 2- The contractor shall install 8 Concrete bollards.
- 3- The bollards shall be painted yellow

Ceiling Grid and tiles

Detailed Scope of Work

Page 1 of 3 August 11, 2009

Page No 2

Detailed Scope of Work Continued

- 1- The Contractor shall responsible to replace any ceiling grid damage due to construction
- 2- Any damage ceiling tiles shall be replaced with Armstrong 823 cortega ceiling tiles.
- 3- Any ceiling tiles penetration to support either piping or cooling shall include the installation of a fire sprinkler escuscion.

ISS Raise floor air flow tiles

1- The contractor shall purchase and install (12) ASM AF Series mODEL #AF200 color to selected By Facilities management

Fire Alarm

1- The Contractor shall be responsible to secure the service from a fire alarm company to provide permit, engineering and scope of work to tie a HVAC unit shutdown into the existing fire alarm system.

Project requirement:

- 1- Working hours are Monday to Friday from 7:00am to Friday 5:00
- 2- Any request for alternate working hours/ night or weekend work shall be address in writing to the Project Manager.
- 3- The Contractor shall protect existing equipment from construction debris within the construction area at all times.
- 4- The Contractor/or Sub- Contractor shall report on a daily base with Facilities management to let them be aware of their presence on site.
- 5- The Contractor shall clean-up their work area on a daily bases.

EMPLOYEE CLEARANCE

- Every employee that works on this project is subject to a PBSO security background check prior to starting the project.
- 2- Every employee shall attend a 3 hours class on working around inmates
- 3- Badges are to be worn and displayed at all times that the worker is on the job site.
- 4- A tool list is to be in workers tool box or bag at all times.
- 5- The Contractor shall comply with the provisions of Ordinance 2003-030 (Criminal History Record Check Ordinance), if a Contractors' employee or subcontractor are required under this contract to enter a "critical facilities" as identified in resolution R2003-1274. The Contractor acknowledges and agrees that all employee and subcontractors who are to perform work in a "critical facility" will undergo a fingerprint based criminal history check.
- Prior to commencement of work within a critical facility, the Contractor shall make arrangements through the County's Electronic Services and Security Division/Access Section for its employees and those of its subcontractors to have a fingerprint based Criminal history record check performed. Those employees cleared of disqualifying offences will be granted an ID badge which must be worn at all times. A list of

Detailed Scope of Work

Page 2 of 3 August 11, 2009

disqualifying offenses is available upon request. Any person found to have a disqualifying criminal offense will be denied unescorted access to the project. The Contractor will be charged a nominal fee for any lost cards.

Palm Beach County agrees to pay for all applicable FDLE/FBI fees required for criminal History record check. The Contractor shall be solely responsible for all direct and indirect Cost associated with complying with Ordinance 2003-030

Detailed Scope of Work

Page 3 of 3 August 11, 2009

D ATE August 11, 2009	GC 06 - SBE Estir	mate
Job# 08631.01 Loc# 108	CJC Bldg A, Administration, 3228 Gun Club Road PBSO - ISS HVAC	
SUBMITTED BY	HA Contracting Corp. 9500 NW 12th Street Miami, FL 33172	Contract: R-2007-0944 Awarded: 06/17/2009

Proposal Value: \$ 750,855.27

Contractor/Su	b-Contractor	Trade	SBE Status	SBE \$	% of Job
Kerney & Asso	ciates, Inc.		SBE-Non MWBE	482,763.00	482,763.00
		Total estimate	SBE participation	1	64.30%
	0%	Estimated	Participation	100%	

GC 06 - SBE Estimate

Page 1 of 1 8/11/2009



VDGET AVAILABILITY STATEME

REQUEST DATE: 07/16/09

REQUESTED BY: Daniel Racette

PHONE: 233-2057

PROJECT TITLE: PBSO - ISS HVAC

PROJECT NO.: #08631.01

LOCATION: 3228 Gun Club Road, WPB

LOCATION DESCRIPTION:

BUILDING NUMBER: 108

Harmeria 379773C

JUL 3 C 2004

TTACHMENT #5

CONTRACTOR/CONSULTANT NAME: H.A. Contracting Corp.

PROVIDE A BRIEF STATEMENT OF THE SCOPE OF SERVICES TO BE PROVIDED BY THE CONSULTANT/CONTRACTOR: Furnish all material, labor, structural engineering, fire alarm drawings, supervision and permits required to install two (2) Liebert 45 ton refrigerant chillers model XDC160 per proposal submitted by H.A. Contracting Corp.

WILL THIS AMENDMENT CHANGE THE ESTIMATED COST OF THE PROJECT? IF YES, PROVIDE ESTIMATES OF THE NEW COSTS:

CONSTRUCTION	<u>\$750,855.41</u> (Option 2)
ARCHITECTURE/ENGINEER	\$ 11,262.83 1.5 WORK ORDER AMOUNT FOR TGG FEE
*STAFF COSTS	<u>\$ 3,754.28</u>
EQUIPMENT/ OTHER	<u>NA</u>
CONTINGENCY	\$ 75,085.55
TOTAL	\$840,958.07

By signing this BAS your department agrees to these staff costs and your account will be charged upon receipt of this BAS by FD&O. Unless there is a change in the scope of work, no additional staff charges will be billed.

BUDGET ACCOUNT NUMBERS (IDENTIFY ALL SOURCES) FUNDING SOURCE (CHECK ALL THAT APPLY)

FUND: AGENCY: ORG: 3804-411-B433-02-4907-3804-411-B420-4907-0BJ: SI SUBOBJ: \$ 400,958.07 AD VALOREM **FEDERAL/DAVIS BACON**

SUPPLEMENTAL AGREEMENT TO BE APPROVED BY: Department Director (WO<\$50,000) ANTICIPATED DATE OF APPROVAL: BAS APPROVED BY 200 -