



## Work Order Signature Document

NJPA EZIQC Contract No.: FL06-022912-SCD

☐

New Work Order

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Modify an Existing Work Order

Work Order Number.: 026980.01

Work Order Date: 07/08/2016

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

Owner Name: City of Pompano Beach

Contractor Name: Shiff Construction & Development, Inc.

Contact: Tammy Good

Contact: Justen Shiff

Phone: (954) 786-4060

Phone: 9545242575

### Work to be Performed

Work to be performed as per the Final Detailed Scope of Work Attached and as per the terms and conditions of NJPA EZIQC Contract No FL06-022912-SCD.

Brief Work Order Description:

### Time of Performance

Estimated Start Date:

Estimated Completion Date:

### Liquidated Damages

Will apply:

☐

Will not apply:

☒

**Work Order Firm Fixed Price: \$48,636.48**

Owner Purchase Order Number:

### Approvals

Owner

Date

Contractor

Date

Exhibit B



## Detailed Scope of Work

**To:** Justen Shiff  
Shiff Construction & Development, Inc.  
1350 NE 56th St -Ste. 100  
Fort Lauderdale, FL 33334  
9545242575

**From:** Tammy Good  
City of Pompano Beach  
100 W ATLANTIC BLVD  
POMPANO BEACH, FL  
(954) 786-4060

**Date Printed:** July 08, 2016

**Work Order Number:** 026980.01

**Work Order Title:** Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Brief Scope:

☐

Preliminary

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Revised

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Final

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

This supplemental is for changes resulting from the plan review comments, which involved a combination of not meeting code requirements as well as changes in the code; i.e. - protect under raised floor (old 911 room) - wet system required in areas protected by suppression/clean agent (data center) - fire dampers not installed in clean agent protected areas

Subject to the terms and conditions of JOC Contract **FL06-022912-SCD**.

Contractor

Date

Owner

Date

## Contractor's Price Proposal - Summary

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**Date:** July 08, 2016

**Re:** IQC Master Contract #: FL06-022912-SCD  
Work Order #: 026980.01  
Owner PO #:  
Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental  
Contractor: Shiff Construction & Development, Inc.  
Proposal Value: \$48,636.48

<b>Div 01 - Bond Fee</b>	<b>\$1,009.69</b>
<b>Div 01 - Owner Contingency</b>	<b>\$5,300.00</b>
<b>Div 01 - Permit Fee</b>	<b>\$5,167.39</b>
<b>Div 21 - Fire Suppression</b>	<b>\$9,283.76</b>
<b>Div 23 - Fire Sprinkler</b>	<b>\$15,152.39</b>
<b>Div 23 - Mechanical</b>	<b>\$6,320.89</b>
<b>Div 26 - Electrical</b>	<b>\$1,130.61</b>
<b>Div 28 - Fire Alarm</b>	<b>\$5,271.75</b>
<b>Proposal Total</b>	<b>\$48,636.48</b>

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

## Contractor's Price Proposal - Detail

Date: July 08, 2016

Re: IQC Master Contract #: FL06-022912-SCD  
Work Order #: 026980.01  
Owner PO #:  
Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental  
Contractor: Shiff Construction & Development, Inc.  
Proposal Value: \$48,636.48

Sect.	Item	Mod.	UOM	Description	Line Total
Labor	Equip.	Material	(Excludes)		
<b>Div 01 - Bond Fee</b>					
1	01 22 16 00 0002		EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$1,009.69
				Quantity	Unit Price
Installation				952.54	x 1.00
					x 1.0600 =
					Total 1,009.69
				Bond Fee (2% of base proposal - \$47,626.79) - \$952.54	
<b>Subtotal for Div 01 - Bond Fee</b>					<b>\$1,009.69</b>
<b>Div 01 - Owner Contingency</b>					
2	01 22 16 00 0002		EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$5,300.00
				Quantity	Unit Price
Installation				5,000.00	x 1.00
					x 1.0600 =
					Total 5,300.00
				Owner requested contingency	
<b>Subtotal for Div 01 - Owner Contingency</b>					<b>\$5,300.00</b>
<b>Div 01 - Permit Fee</b>					

## Contractor's Price Proposal - Detail Continues..

Work Order Number: 026980.01

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Div 01 - Permit Fee

3	01 22 16 00 0002	EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.				\$5,167.39
			Quantity	Unit Price	Factor	Total	
	Installation		4,874.90 x	1.00 x	1.0600 =	5,167.39	
	Suppression Permit Fee: \$1,676.50						
	Fire Sprinkler Permit Fee: \$3,198.40						

### Subtotal for Div 01 - Permit Fee

\$5,167.39

### Div 21 - Fire Suppression

4	21 01 30 00 0005	LB	Refill/Recharge, Halon 1301				\$4,185.07
			Quantity	Unit Price	Factor	Total	
	Installation		130.00 x	27.48 x	1.1715 =	4,185.07	
	An additional 130 Lbs required for additional areas protected.						
5	21 22 16 00 0098	EA	1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720)				-\$104.08
			Quantity	Unit Price	Factor	Total	
	Installation		-1.00 x	88.84 x	1.1715 =	-104.08	
	Credit due to revised quantity.						
6	21 22 16 00 0209	EA	Weatherproof, Horn And 117 Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429696)				-\$161.35
			Quantity	Unit Price	Factor	Total	
	Installation		-1.00 x	137.73 x	1.1715 =	-161.35	
	Credit due to revised quantity.						
7	21 22 16 00 0258	EA	Control Relay, IQ-396X Modules, CRM-4, Autopulse® Fire Detection And Control Equipment (Ansul419565)				\$499.56
			Quantity	Unit Price	Factor	Total	
	Installation		1.00 x	426.43 x	1.1715 =	499.56	
	Additional relay required due to revised system design.						
8	21 22 16 00 0293	EA	Photoelectric, Analog Addressable Detector, Intelligent Addressable Devices, FSP-751, Autopulse® Fire Detection And Control Equipment (Ansul 428091)				\$614.33
			Quantity	Unit Price	Factor	Total	
	Installation		4.00 x	131.10 x	1.1715 =	614.33	
	Additional devices required due to revised system design.						
9	21 22 16 00 0302	EA	Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125)				\$351.59
			Quantity	Unit Price	Factor	Total	
	Installation		4.00 x	75.03 x	1.1715 =	351.59	
	Additional devices required due to revised system design.						
10	21 22 16 00 0447	EA	6", 24 VDC Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805)				-\$81.97
			Quantity	Unit Price	Factor	Total	
	Installation		-1.00 x	69.97 x	1.1715 =	-81.97	
	Credit due to revised quantity.						

## Contractor's Price Proposal - Detail Continues..

Work Order Number: 026980.01

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Div 21 - Fire Suppression

11	21 22 16 00 0452	EA	40#, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636)						\$1,455.11
			Quantity	Unit Price	Factor	=	Total		
		Installation	1.25 x	993.67 x	1.1715	=	1,455.11		
			Additional 50# tank required due to revised system design. 1.25 factor utilized to adjust 40# tank to 50#.						
12	21 22 16 00 0454	EA	140#, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638)						-\$4,187.76
			Quantity	Unit Price	Factor	=	Total		
		Installation	-2.00 x	1,787.35 x	1.1715	=	-4,187.76		
			Credit due to revised quantity.						
13	21 22 16 00 0457	EA	450#, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641)						\$2,859.49
			Quantity	Unit Price	Factor	=	Total		
		Installation	1.00 x	2,440.88 x	1.1715	=	2,859.49		
			Tank to replace credited 140# tanks.						
14	21 22 16 00 0464	EA	1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519)						-\$157.36
			Quantity	Unit Price	Factor	=	Total		
		Installation	-1.00 x	1343.2 x	1.1715	=	-157.36		
			Credit due to revised quantity.						
15	21 22 16 00 0487	EA	Tank Bracket Assembly For 20#, 40#, 50#, 80# And 90# Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)						\$97.20
			Quantity	Unit Price	Factor	=	Total		
		Installation	1.00 x	82.97 x	1.1715	=	97.20		
16	21 22 16 00 0488	EA	Tank Bracket Assembly For 140#, 280#, 390# And 450# Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)						-\$105.39
			Quantity	Unit Price	Factor	=	Total		
		Installation	-1.00 x	89.96 x	1.1715	=	-105.39		
			Credit due to revised quantity.						
17	26 05 19 16 0011	MLF	#14 AWG Cable - Type THHN-THWN, 600 V Copper, Single Solid, Placed In Conduit						\$282.36
			Quantity	Unit Price	Factor	=	Total		
		Installation	0.80 x	301.28 x	1.1715	=	282.36		
			Additional 300 Lf of wire required for wiring suppression system and 500 Lf for fire alarm monitoring of fire dampers.						
18	26 05 33 13 0290	LF	1/2" EMT Conduit, Mounted Exposed On Flat Wall						\$241.33
			Quantity	Unit Price	Factor	=	Total		
		Installation	100.00 x	2.06 x	1.1715	=	241.33		
19	26 05 33 13 0323	EA	1/2 EMT Compression Coupling						\$33.27
			Quantity	Unit Price	Factor	=	Total		
		Installation	10.00 x	2.84 x	1.1715	=	33.27		
20	26 05 33 13 0356	EA	1/2" EMT Box Connector, Compression						\$16.40
			Quantity	Unit Price	Factor	=	Total		
		Installation	4.00 x	3.50 x	1.1715	=	16.40		
21	26 05 33 13 1723	LF	1/2" Flexible Metallic Conduit						\$10.84
			Quantity	Unit Price	Factor	=	Total		
		Installation	5.00 x	1.85 x	1.1715	=	10.84		
22	26 05 33 13 1804	EA	1/2" Flexible Steel Screw-in Coupling						\$17.57
			Quantity	Unit Price	Factor	=	Total		
		Installation	5.00 x	3.00 x	1.1715	=	17.57		



## Contractor's Price Proposal - Detail Continues..

Work Order Number: 026980.01

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Div 21 - Fire Suppression

23	26	05	33	16	0006	EA	4-11/16" Square Steel Box X 2-1/8" Deep With Cover										\$71.04
						Installation	Quantity	4.00	x	Unit Price	15.16	x	Factor	1.1715	=	Total	71.04
24	28	31	23	00	0752	EA	Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)										\$3,346.51
						Installation	Quantity	18.00	x	Unit Price	158.70	x	Factor	1.1715	=	Total	3,346.51
Monitoring modules required for suppression system and fire dampers to communicate with building's existing fire alarm system.																	

### Subtotal for Div 21 - Fire Suppression

**\$9,283.76**

### Div 23 - Fire Sprinkler

25	01	22	20	00	0049	HR	Investigating Senior Engineer Or Specialty ConsultantFor special investigatory engineering requirements or other miscellaneous professional services.										\$1,757.25
						Installation	Quantity	12.00	x	Unit Price	125.00	x	Factor	1.1715	=	Total	1,757.25
Required to revise fire sprinkler and suppression drawings.																	
26	21	13	13	00	0014	EA	Upright Brass Sprinkler Heads										\$568.19
						Installation	Quantity	17.00	x	Unit Price	28.53	x	Factor	1.1715	=	Total	568.19
Required as per plan review comment to protect under floor of old 911 room.																	
27	21	13	13	00	0014	0001	MOD	For Chrome, Add									\$12.55
						Installation	Quantity	17.00	x	Unit Price	0.63	x	Factor	1.1715	=	Total	12.55
28	21	13	13	00	0020	EA	Concealed Pendent Sprinkler Heads With Concealed Cover Plate										\$840.49
						Installation	Quantity	15.00	x	Unit Price	47.83	x	Factor	1.1715	=	Total	840.49
Required as per plan review comment to protect data room ceiling with wet system.																	
29	21	13	13	00	0020	0001	MOD	For Chrome, Add									\$62.03
						Installation	Quantity	15.00	x	Unit Price	3.53	x	Factor	1.1715	=	Total	62.03
30	22	11	19	00	0227	EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)										\$1,812.83
						Installation	Quantity	2.00	x	Unit Price	773.72	x	Factor	1.1715	=	Total	1,812.83
31	23	05	29	00	0635	EA	2" Hanger Assembly For PipeIncludes hanger, rod, saddle and clamp.										\$720.12
						Installation	Quantity	10.00	x	Unit Price	61.47	x	Factor	1.1715	=	Total	720.12
32	23	21	13	23	0019	LF	1" ASTM A-53 Pipe, Schedule 40, Threaded And Coupled										\$27.41
						Installation	Quantity	6.00	x	Unit Price	3.90	x	Factor	1.1715	=	Total	27.41
33	23	21	13	23	0019	LF	1" ASTM A-53 Pipe, Schedule 40, Threaded And Coupled										\$776.70
						Installation	Quantity	170.00	x	Unit Price	3.90	x	Factor	1.1715	=	Total	776.70
34	23	21	13	23	0021	LF	1-1/2" ASTM A-53 Pipe, Schedule 40, Threaded And Coupled										\$31.98
						Installation	Quantity	5.00	x	Unit Price	5.46	x	Factor	1.1715	=	Total	31.98
35	23	21	13	23	0021	LF	1-1/2" ASTM A-53 Pipe, Schedule 40, Threaded And Coupled										\$7,036.03
						Installation	Quantity	1,100.00	x	Unit Price	5.46	x	Factor	1.1715	=	Total	7,036.03

## Contractor's Price Proposal - Detail Continues..

Work Order Number: 026980.01

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Div 23 - Fire Sprinkler

36	23 21 13 23 0022	LF	2" ASTM A-53 Pipe, Schedule 40, Threaded And Coupled						\$342.45
		Installation	Quantity	Unit Price	Factor	=	Total		
			42.00 x	6.96 x	1.1715	=	342.45		
37	23 21 13 23 0035	EA	1" 90 Degree Elbow, 150# Malleable Iron, Black						\$31.44
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00 x	13.42 x	1.1715	=	31.44		
38	23 21 13 23 0037	EA	1-1/2" 90 Degree Elbow, 150# Malleable Iron, Black						\$45.38
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00 x	19.37 x	1.1715	=	45.38		
39	23 21 13 23 0063	EA	1-1/2" Tee, Straight 150# Malleable Iron, Black						\$509.95
		Installation	Quantity	Unit Price	Factor	=	Total		
			15.00 x	29.02 x	1.1715	=	509.95		
40	23 21 13 23 0089	EA	1-1/2" Coupling, Straight, 150# Malleable Iron, Black						\$44.31
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00 x	18.91 x	1.1715	=	44.31		
41	23 21 13 23 0099	EA	1" Coupling, Reducing, 150# Malleable Iron, Black						\$32.54
		Installation	Quantity	Unit Price	Factor	=	Total		
			2.00 x	13.89 x	1.1715	=	32.54		
42	23 21 13 23 0101	EA	1-1/2" Coupling, Reducing, 150# Malleable Iron, Black						\$335.11
		Installation	Quantity	Unit Price	Factor	=	Total		
			15.00 x	19.07 x	1.1715	=	335.11		
43	23 21 16 00 0110	EA	2" Strainer, Bronze Body, Y-Type, 150 #, Screwed Ends						\$102.69
		Installation	Quantity	Unit Price	Factor	=	Total		
			1.00 x	87.66 x	1.1715	=	102.69		
		Inspection drain.							
44	26 05 29 00 0030	EA	1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel						\$10.07
		Installation	Quantity	Unit Price	Factor	=	Total		
			4.00 x	2.15 x	1.1715	=	10.07		
45	26 05 29 00 0135	EA	15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16)						\$19.96
		Installation	Quantity	Unit Price	Factor	=	Total		
			12.00 x	1.42 x	1.1715	=	19.96		
		(12) Total: (4) Additional; (8) which should have been in initial proposal.							
46	26 05 29 00 0268	LF	3/8" Diameter, Carbon Steel Threaded Rod						\$19.45
		Installation	Quantity	Unit Price	Factor	=	Total		
			10.00 x	1.66 x	1.1715	=	19.45		
47	26 05 29 00 0276	EA	3/8" Diameter, Threaded Rod Coupling Nut						\$13.46
		Installation	Quantity	Unit Price	Factor	=	Total		
			3.00 x	3.83 x	1.1715	=	13.46		

Subtotal for Div 23 - Fire Sprinkler

\$15,152.39

### Div 23 - Mechanical

48	01 22 20 00 0029	HR	Sheet Metal WorkerTasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.						\$2,999.04
		Installation	Quantity	Unit Price	Factor	=	Total		
			80.00 x	32.00 x	1.1715	=	2,999.04		
		(2) Men, 8 hours required to modify existing ductwork to facilitate installation of new fire dampers - typical of (5).							



## Contractor's Price Proposal - Detail Continues..

Work Order Number: 026980.01

Work Order Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental

### Div 23 - Mechanical

49	23 09 23 00 0860	EA	90 IN-LB, 24 VAC, 4-20mA, 2-10 VDC, Proportional Control, Spring Return Direct Coupled Damper (Belimo NFB24-SR)						\$1,930.05
			Quantity	Unit Price	Factor	=	Total		
		Installation	5.00 x	329.50 x	1.1715	=	1,930.05		
			Actuator required to be installed on fire/smoke dampers to make them motorized which will ultimately tie to the fire alarm system.						
50	23 33 13 19 0034	EA	20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated						\$985.76
			Quantity	Unit Price	Factor	=	Total		
		Installation	5.00 x	168.29 x	1.1715	=	985.76		
			Fire dampers required at various supply duct outlets and exhaust in clean agent suppression protected areas.						
51	23 33 33 00 0007	EA	18" x 18" Duct Access Doors Insulated Factory Fabrication						\$406.04
			Quantity	Unit Price	Factor	=	Total		
		Installation	5.00 x	69.32 x	1.1715	=	406.04		
			Access doors required for each fire damper location.						

### Subtotal for Div 23 - Mechanical

**\$6,320.89**

### Div 26 - Electrical

52	26 05 19 16 0119	MLF	#12 AWG Cable - Type THHN-THWN, Underground Feeder And Branch Circuit						\$406.62
			Quantity	Unit Price	Factor	=	Total		
		Installation	0.90 x	385.66 x	1.1715	=	406.62		
			Wire required to run power to new fire damper locations.						
53	26 05 33 13 0290	LF	1/2" EMT Conduit, Mounted Exposed On Flat Wall						\$723.99
			Quantity	Unit Price	Factor	=	Total		
		Installation	300.00 x	2.06 x	1.1715	=	723.99		

### Subtotal for Div 26 - Electrical

**\$1,130.61**

### Div 28 - Fire Alarm

54	01 22 20 00 0049	HR	Investigating Senior Engineer Or Specialty ConsultantFor special investigatory engineering requirements or other miscellaneous professional services.						\$5,271.75
			Quantity	Unit Price	Factor	=	Total		
		Installation	36.00 x	125.00 x	1.1715	=	5,271.75		
			Additional fire alarm monitoring of each of the three suppression panels for trouble, alarm and supervisory. Additional monitoring for closure of each of the five dampers feeding the suppression areas. Additional monitoring of new sprinkler valve on first floor. Additional fire alarm monitoring of the new tamper and flow for second floor sprinklers feeding the suppression rooms. Programing of each of these monitoring points. Engineered drawings for submittal to the City of Pompano Beach.						

### Subtotal for Div 28 - Fire Alarm

**\$5,271.75**

### Proposal Total

**\$48,636.48**

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

## Subcontractor Listing

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**Date:** July 08, 2016

**Re:** IQC Master Contract #: FL06-022912-SCD  
Work Order #: 026980.01  
Owner PO #:  
Title: Pompano Beach Public Safety Complex - Fire Sprinkler Supplemental  
Contractor: Shiff Construction & Development, Inc.  
Proposal Value: \$48,636.48

Name of Contractor	Duties	Amount	%
No Subcontractors have been selected for this Work Order		\$0.00	0.00