

SAN ANTONIO WATER SYSTEM University Pump Station Improvements Project SAWS Job No. 12-6002 Solicitation No. B-14-002-DD

> ADDENDUM NO. 9 April 23, 2014

## **TO BIDDER OF RECORD:**

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the University Pump Station Improvements Project, for the San Antonio Water System, San Antonio, Texas, dated January 2014, as fully and completely as if the same were set forth therein.

### PART 1 – TECHNICAL SPECIFICATIONS

- 1. Section 13300 Instrumentation and Controls General Provisions
  - A. Replace in its entirety 13300-9, 1.06.C.2.k with: "The ASP shall provide 24-hour, 7days a week remote support throughout the length of the warranty period. However if remote support is not sufficient to solve the problem, then an on-site resolution is required."
- 2. Section 13400 Control Loop Descriptions
  - A. Revise 13400.3.02.F.1: "...Four new flow meters shall be installed and one existing flow meters shall be reused. The existing flow meters for pumps HSP No. 3, HSP No. 4, and HSP No. 5 shall be removed and replaced..."
- 3. Section 13410 Field Instrument List
  - A. Revise Table 13410 Field Instrument List: Item 18, I-05, FE/FIT-105-5: Remove "Existing" from Comments.

# PART 2 – DRAWINGS

- 1. SHEET C-1: Add the following note to the end of the General Notes:
  - "9. Based upon age of the existing facility, the site may contain lead paint coatings on piping, valves, pumps and appurtenances. If lead materials are encountered during construction, the Contractor shall follow Pollution Abatement Compliance requirements per specification 01570, Temporary Controls."
- 2. Replace SHEET C-11 in its entirety with attached SHEET C-11.
- 3. SHEET E-04: Delete section 31/E-07; Add a junction box 24"x24"x12" next to each gate actuator. Refer to security riser diagram-1 on SHEET E-21

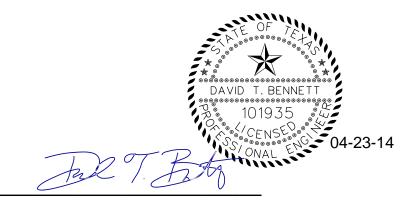
- 4. Replace SHEET E-06 in its entirety with attached SHEET E-06
- 5. Replace SHEET E-07 in its entirety with attached SHEET E-07
- 6. Replace SHEET E-07A in its entirety with attached SHEET E-07A
- 7. SHEET E-09: Change 4#14 to 6#14 for pumps HSP-4 and HSP-5 (four places total). The HSP-4 motor is new, show as dark.
- 8. SHEET E-10: Change 4#14 to 6#14 for pump HSP-3(two places total). Change 6#14 to 8#14 and 4#14 to 6#14 for pumps HSP-1 and HSP-2 (four places total). The HSP-3 motor is new, show as dark.
- 9. SHEET E-14: The flow transmitter FIT-105-5 and flow element FE-105-5 shall be shown as new. Add note 1 reference next to flow transmitter. Replace note 1 with: "Provide sunshield, surge suppressor, and wire way as per detail 5 on E-23."
- 10. SHEET E-15: Move Ductbank Section 45/E-07A to the East of EHH-2. Change scale from 1/2" to 1/4" Add connection from FIT-105-1 to FE-105-1. Delete connection from FE-105-1 to JC12.
- 11. SHEET E-19: For Panelboard LB, circuit number 27 change the wire size from 12 to 10.
- 12. SHEET E-20: Delete PSL-105-1 and PSL-105-2 and associated wire and conduit tagged as SCP-121 and SCP-125.
- 13. SHEET E-21: Refer to Riser Diagram-1; Change 2" conduit for the card readers to 1". Replace note two with: "Refer to Section 13550 for card reader communication cable." Add note three: "Refer to section 02829 for gate actuator." Add note four: "The j-boxes as shown on riser diagram shall be installed next to the gate actuator. Exact location shall be coordinated in the field." Add note two references next to the card reader conduits (four total). Add note three references next to the gate actuators (two total). Add note four references next to the j-boxes.
- 14. SHEET E-23: Change JC-41 to JI-41 and JI-41 to JC-41.
- 15. Replace SHEET E-24 in its entirety with attached SHEET E-24
- 16. SHEET ED-01: Delete note 6 in Addendum 3 and replace with: "SAWS recommends the Contractor shall remove and dispose all underground ductbanks shown on sheet ED-01 and C-2 at all depths located within the facility."
- 17. SHEET ED-03: Replace note #3 with: "Existing flow sensor and transmitter shall be demolished. Demolish associated wire and conduit. Refer to ED-04 Photograph-3."
- 18. SHEET ED-04: Delete note 1 reference next to photo 3. Show flow transmitter and stand as demolish.

19. SHEET EZ-1: Delete in its entirety Detail 1 Above Grade Conduit Termination.

20. SHEET I-03: Show the flow meter for HSP No. 5 as a new magnetic flow meter.

21. SHEET I-05: Show the flow meter for HSP No. 5 as a new magnetic flow meter.

ALL BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 9 IN THE BID FORM AND BY HIS/HER SIGNATURE AFFIXED HERETO AND TO FILE SAME AS AN ATTCHMENT TO HIS/HER BID. BID FORMS SUBMITTED WITHOUT THIS ACKNOWLEDGEMENT WILL BE CONSIDERED INFORMAL.



**David T. Bennett, P.E.** Freese and Nichols, Inc.

FREESE AND NICHOLS, INC. TEXAS REGISTERED ENGINEERING FIRM F-2144

## ACKNOWLEDGEMENT BY BIDDER

THE UNDERSIGNED ACKNOWLEDGES RECEIPT OF THIS ADDENDUM NO. 9 AND THE BID SUBMITTED HEREWITH IS IN ACCORDANCE WITH THE INFORMATION AND STIPULATION SET FORTH.

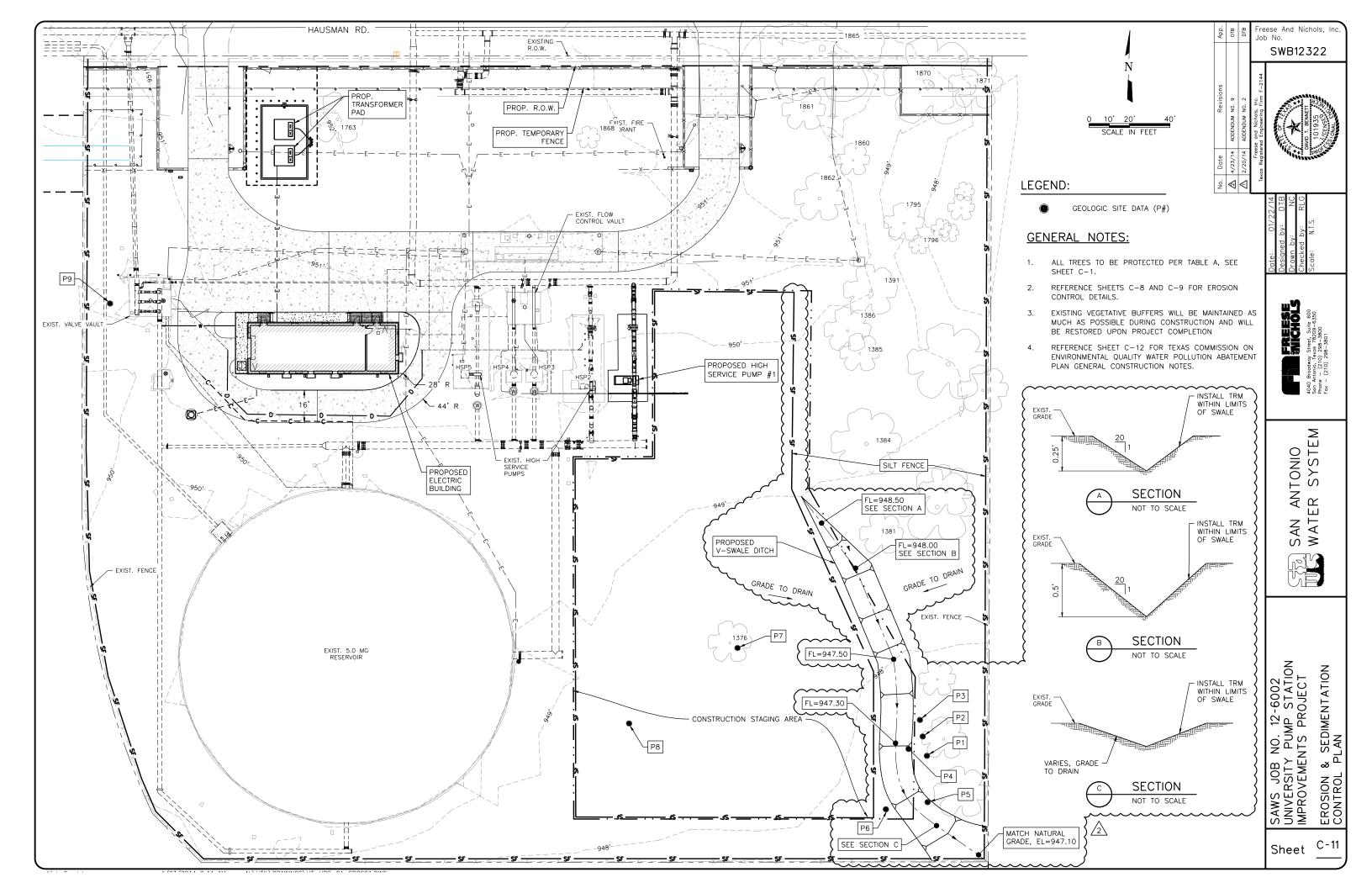
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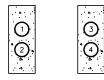
Signature of bidder

Appended hereto and part of Addendum No. 9 are:

- 1. Sheet C-11
- 2. Sheet E-06
- 3. Sheet E-07
- 4. Sheet E-07A
- 5. Sheet E-24
- 6. Questions and Answers

# END OF ADDENDUM NO. 9





### DUCTBANK E-04-SECTION 1

	TABLE FOR SECTION 1					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	CPS-P1	5"C	POWER POLE TO UT-1			
2	SPARE	5"C	SPARE			
3	CPS-P1	5"C	POWER POLE TO UT-2			
4	SPARE	5"C	-			

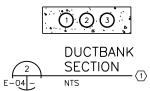
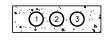
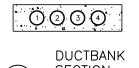


	TABLE FOR SECTION 2					
CONDUIT NO.	CONDUIT TAG		CONDUIT SIZE	DESCRIPTION		
1-2	UT2-P1		5"C	UT-1 TO SWITCHGEAR		
3	SPARE		5"C	-		



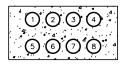
DUCTBANK SECTION E-04-NTS

	TABLE FOR SECTION 3					
CONDUIT NO.	CONDUIT TAG		CONDUIT SIZE	DESCRIPTION		
1-2	UT1-P1		5"C	UT-2 TO SWITCHGEAR		
3	SPARE		5"C	_		



4	SECTION
E-04-	NTS

		TABLE FOR	SECTION	4
CONDUIT NO.	CONDUIT TAG		CONDUIT SIZE	DESCRIPTION
1 /2	LA-8		1 "C	POWER TO GATE <u>/</u>
2	FSP2-1/2		1 "C	SECURITY CABINET TO A
3	SPARE		1 "C	-
4	FSP1-2,3,4		2"C	SECURITY CABINET



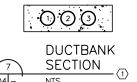
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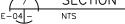
	TABLE FOR SECTION 5				
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION		
1	MC1-4RP	1"C	FROM MCC-1 TO PANEL LD		
2	SPARE	1 "C	-		
3	SCP-101,102,103,103A	2"C	FROM SCP TO ALTITUDE VALVES		
4	SCP-104	1"C	FROM SCP TO ALTITUDE VAULT PREASURE		
5 /2	LB-27	1"C	POWER TO SECURITY PANEL AND GATE		
6	FSP1-1/2	1 "C	SECURITY CABINET TO		
7	SPARE	1 "C	SPARE		
8	FSP1-2,3,4	2"C	SECURITY CABINET $\Lambda$		





	TABLE FOR SECTION 6					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	MC1-4RP	1 "C	FROM MCC-1 TO PANEL LD			
2	SPARE	1 "C	-			
3	SCP-101,102,103,103A	2"C	FROM SCP TO ALTITUDE VALVES			
4	SCP-104	1 "C	FROM SCP TO ALTITUDE VAULT PREASURE			





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TABLE FOR SECTION 7				
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION	
1	SCP-160	1"C	PLC-UNPS TO FLOW METER	
2	SPARE	1"C	-	
2	LB-29,31	1"C	POWER TO VAULT	

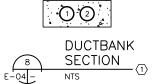
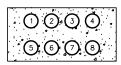


	TABLE FOR SECTION 8					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	SCP-221	2"C	SCP TO ANTENNA TOWER			
2	SPARE	2"C	-			



DUCTBANK SECTION 1 E-04-

	TABLE FOR SECTION 9				
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION		
1	LB-1,3,5	2"C	PANEL LB TO DISCHARGE VAULT VALVES		
2	LA-7,9,11	2"C	PANEL LA TO DISCHARGE VAULT VVALVE		
3	MC1-4LP	2"C	MCC-1 TO PANEL LC		
4	SCP-131,132 1	2"C	DISCHARGE VAULT VALVES TO SWGR-1 & SCP		
5	SCP-145, 146, 147	1"C	SCP TO DISCHARGE VAULT PRESSURE SWITCHES		
6	SCP-141, 142, 143, 144	2"C	SCP TO DISCHARGE VAULT LIT AND PIT		
7	SPARE	2"C	-		
8	SPARE	2"C	-		





		TABLE FOR	SECTION	10
CONDUIT NO.	CONDUIT TAG		CONDUIT SIZE	DESCRIPTION
1	SWGR1-3LP1		3"C	POWER TO HSP-5

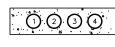




	TABLE FOR SECTION 10A					
ONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	SCP-135	2"C	FLOW METER			
2	SCP-134 2 1	2"C	VALVE CONTROL 2			
3	LA-2,4,6, LB-15,30,32	2"C	POWER TO VALVE (HSP-5) SPACE HEATER, HEAT TRACE AND FLOW METER			
4	SPARE 2	2"C (	SPARE			

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(11)	DUCTBANK SECTION
E-14-	NTS

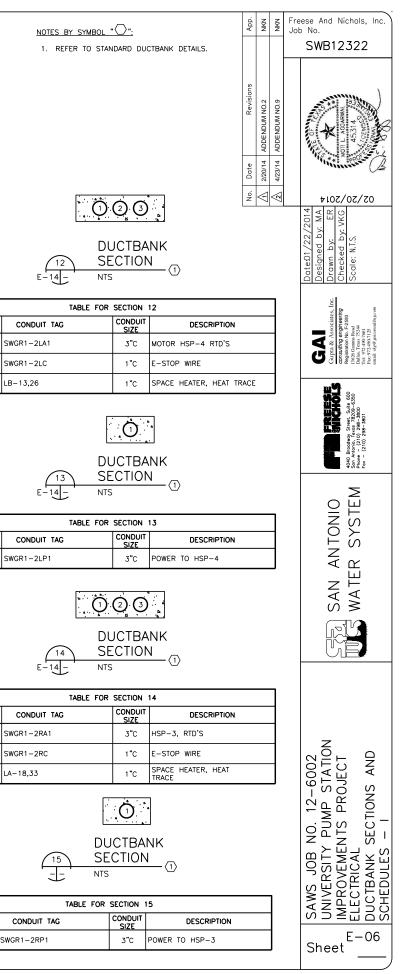
TABLE FOR SECTION 11				
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION	
1	SWGR1-3LA1	3"C	MOTOR HSP-5 RTD'S	
2	SWGR1-3LC	1"C	E-STOP WIRE	

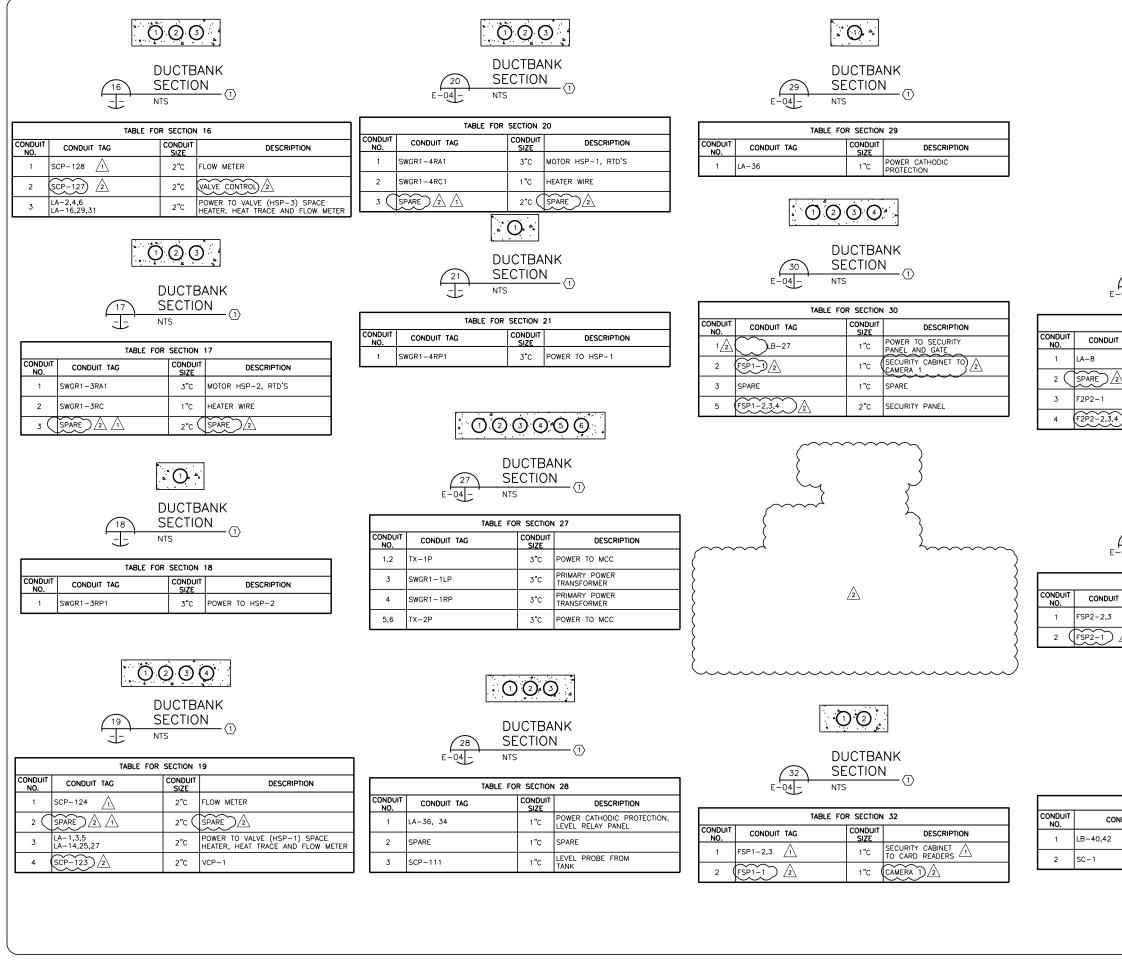
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1	SWG
2	SWG
3	LB-

CONDUIT NO.	Ċ
1	SWGF
2	SWGF
3	LA-1

CONDUIT NO.	СС
1	SWGR







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T TAG	CONDUIT DESCRIPTION				
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2	1"C CAMERA 2) 2				
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1	ABLE FOR SECTION 35				
NDUIT TAG	CONDUIT DESCRIPTION				SEC NO.
	1"C POWER TO LIGHT POLES				
	1"C CAMERA CM-3				AWS JOB INIVERSITY APROVEME LECTRICAL UCTBANK CHEDULES
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	TABLE FOR SECTION 36					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	LB-40,42	1 "C	POWER TO LIGHT POLES			

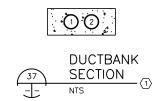


TABLE FOR SECTION 37						
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	LB-40,42	1 <i>"</i> C	POWER TO LIGHT POLES			
2	SC-2	1 "C	CAMERA CM-4			

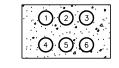




	TABLE FOR SECTION 40					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	SWGR-2LP1	з"с	POWER TO HSP-4			
2	SWGR-3LP1	з"с	POWER TO HSP-5			
3	SWGR-4LP1	3"C	POWER TO HSP-6 (FUTURE)			
4	SPARE	3"C	-			
5	SPARE	3"C	-			
6	SPARE	3"C	-			

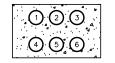




TABLE FOR SECTION 41					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION		
1	SWGR-2RP1	3"C	POWER TO HSP-3		
2	SWGR-3RP1	3"C	POWER TO HSP-2		
3	SWGR-4RP1	3"C	POWER TO HSP-1		
4	SWGR-5RP1	3"C	POWER TO HSP-7 (FUTURE)		
5	SPARE	3"C	-		
6	SPARE	3"C	-		

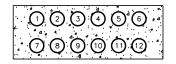




TABLE FOR SECTION 42					
CONDUIT		CONDUIT	+2 DESCRIPTION		
NO.		SIZE	DESCRIPTION		
1	SWGR1-2LP1	3"C	POWER TO HSP-4		
2	SWGR1-3LP1	3"C	POWER TO HSP-5		
3	SWGR1-4LP1	3"C	POWER TO HSP-6 (FUTURE)		
4	SWGR1-2RP1	3"C	POWER TO HSP-3		
5	SWGR1-3RP1	3"C	POWER TO HSP-2		
6	SWGR1-4RP1	3"C	POWER TO HSP-1		
7	SPARE	3"C	SPARE		
8	SPARE	3"C	SPARE		
9	SPARE	3"C	SPARE		
10	SWGR1-5RP1	3"C	POWER TO HSP-7 (FUTURE)		
11	SPARE	3"C	SPARE		
12	SPARE	3"C	SPARE		



DUCTBANK SECTION NTS 1 43 E-15-

	TABLE FOR SECTION 43					
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	SWGR1-4LP1	3"C	POWER TO HSP-6 (FUTURE)			
2	SWGR1-5RP1	3"C	POWER TO HSP-7 (FUTURE)			
3	SPARE	3"C	-			
4	SPARE	3"C	-			

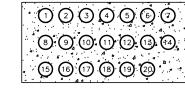




TABLE FOR SECTION 44						
ONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION			
1	SCP-124	2 <b>"</b> C	FLOW METER			
2	SWGR-4RA1	2"C	EMERGENCY STOP/(HSP)			
3	LA-1,3,5 LA-14,25,27	2"C	POWER TO VALVE (HSP-1) SPACE HEATER, HEAT TRACE AND FLOW METER			
4	SCP-	2"C	VCP-1			
5	SWGR1-4RA1	3"C	MOTOR HSP-1, RTD'S			
6	SWGR1-4RC1	1 "C	HEATER WIRE			
7	SCP-121	2"C	PSL-105-1			
8-11	SPARE	2"C	- FOR FUTURE PUMP HSP-6			
12-15	SPARE	2"C	– FOR FUTURE PUMP HSP-6			
16,17	SPARE	3"C	-			
18	LA-36, 34	3"C	POWER CATHODIC PROTECTION, LEVEL RELAY PANEL			
19	SPARE	1"C	SPARE			
20	SCP-111	1"C	LEVEL PROBE FROM TANK			

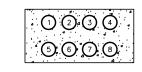
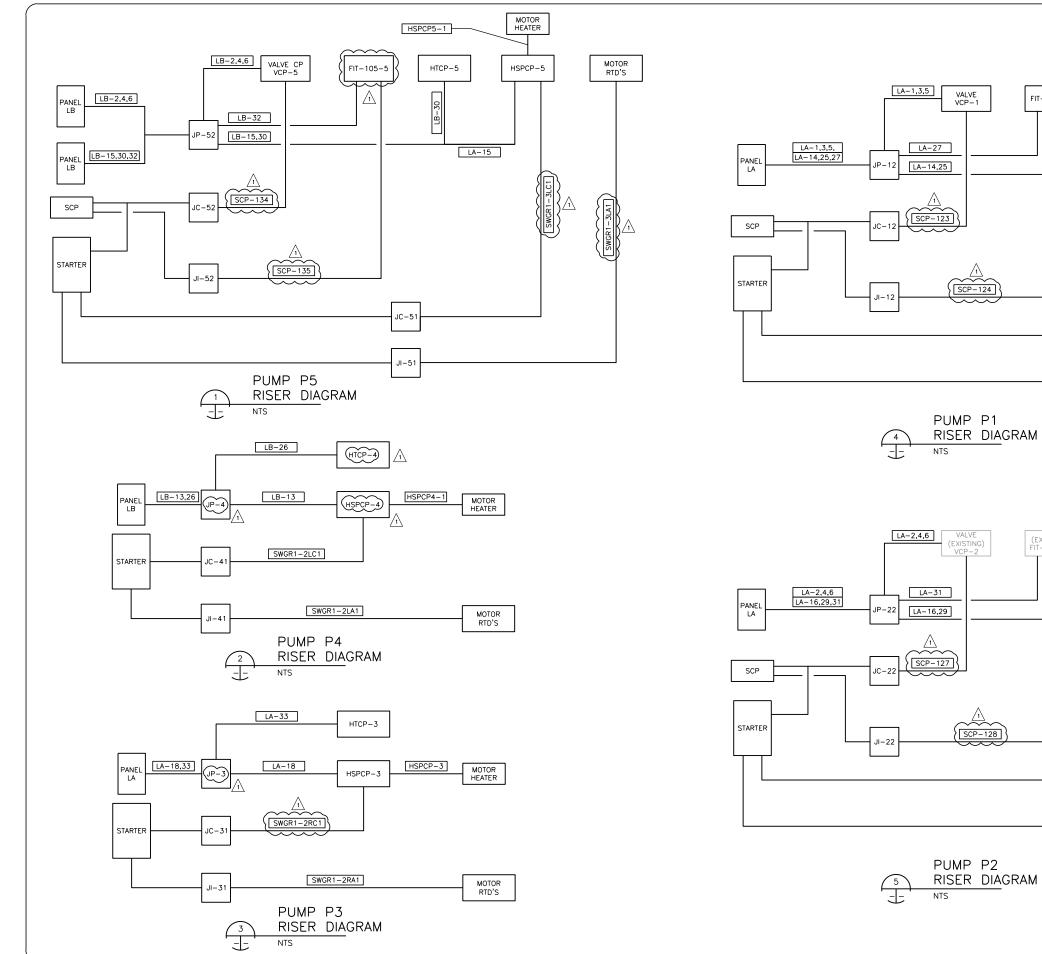


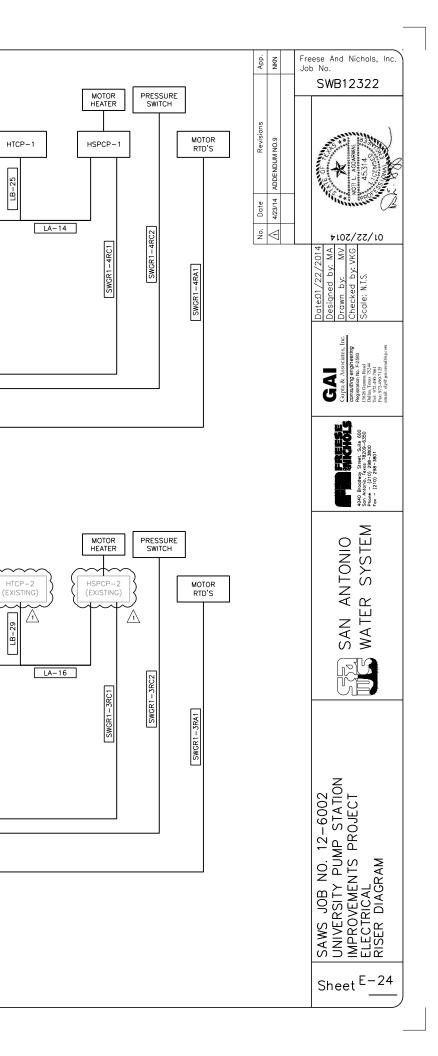


	TABLE F	FOR SECTION	44
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1-4	SPARE	2"C	SPARE FOR FUTURE PUMP HSP-6
5-8	SPARE	2"C	SPARE FOR FUTURE PUMP HSP-7



		NOTES BY SY			App.	NKN		eese And Nichols, Inc. b No.
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iduit 10.	CON	DUIT TAG	CONDUIT SIZE	DESCRIPTION				Associa Associa No. F-25, No. F-26, No. F-26,
1	SCP-13	35 1	2"C	FLOW METER				GAA Gupta & Associates, consulting engineering consulting engineering 18:06 comm Real 18:06 comm Real 19:06 co
2	SCP-13		2"C	STARTER/SCP				
3	LA-2,4, LB-15,	6, 30,32	2"C	POWER TO VALVE (HSP-5) HEAT TRACE AND FLOW ME	SPACE TER	HEAT	ER,	
4	SWGR1-	-3LA1	2"C	VALVE CONTROL (OPEN/CLO	OSE)			et Suite 78229-6
5	SWGR1-	-3LA1	3"C	MOTOR HSP-5 RTD'S				Mag Stre May Stre 10) 298-3
6	SWGR1-	-3LC	1 "C	E-STOP WIRE				4040 Broads Son Antonio, Phone - (210)
7	SWGR1-	-2LA1	3"C	MOTOR HSP-4 RTD'S				
	SWGR1-	-2LC	3"C 1"C	E-STOP WIRE				
7 8 9		-2LC			E			
8	SWGR1-	-2LC 26	1"c 1"c	E-STOP WIRE	E			MATER SYSTEM
8	SWGR1-	-2LC 26 E-07A-	1"C 1"C	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 (1) 3 (1) 3 (1) CTBANK TION (1)	E			AN ANTONIO ATER SYSTEM
8 9	SWGR1- LB-13,2	-2LC 26 (47) E-07A - TAE	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 4 5 3 9 10 3 9 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	~~~~			AN ANTONIO ATER SYSTEM
8 9	SWGR1- LB-13,2	-2LC 26 E-07A - TAE	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 (4) (5) 3 (9) (10) 3 (9) (10) CTBANK TION (1) SECTION 47	~~~~			AN ANTONIO ATER SYSTEM
8 9	SWGR1- LB-13,2	-2LC 26 E -07A - TAE CONDUIT TAG	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3. (4) (5) 3. (9) (10) 3. (9) (10) CTBANK TION (1) SECTION 47 CONDUIT DESCRIP	~~~~			N SAN ANTONIO WATER SYSTEM
8 9	SWGR1- LB-13,2	-2LC 26 47 E-07A TAE SWGR1-2RA1	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3. (1) (5) 8. (9) (10) CTBANK TION (1) CTBANK TION (1) SECTION 47 CONDUIT DESCRIP 3. (2) HSP-3, RTD'S	~~~~			N SAN ANTONIO WATER SYSTEM
8 9	SWGR1- LB-13,2 CONDUIT NO. 1 2	-2LC 26 E - 07A - TAE CONDUIT TAG SWGR 1 - 2RA 1 SWGR 1 - 2RC	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3. 4. 5 3. 9. 10 3. 9. 10 CTBANK TION TION TION TO SECTION 47 CONDUIT SIZE 3"C HSP-3, RTD'S 1"C E-STOP WIRE	~~~~			N SAN ANTONIO WATER SYSTEM
8	SWGR1- LB-13,2 LB-13,2 CONDUIT NO. 1 2 3	-2LC 26 47 E-07A - TAE SWGR1-2RA1 SWGR1-2RC SWGR1-4RA1	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 (1) 3 (1) 3 (1) 3 (1) CTBANK TION (1) SECTION 47 CONDUIT DESCRIP 3 "C HSP-3, RTD'S 1 "C E-STOP WIRE 3 "C HSP-1, RTD'S	~~~~			N SAN ANTONIO WATER SYSTEM
<sup>8</sup> 9	SWGR1- LB-13,2 CONDUIT NO. 1 2 3 4	-2LC 26 26 47 E-07A - TAE CONDUIT TAG SWGR1-2RA1 SWGR1-2RC SWGR1-4RA1 SWGR1-4RC	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3. 4. 5 3. 9. 10 3. 9. 10 CTBANK TION TION TO SECTION 47 CONDUIT SIZE 3"C HSP-3, RTD'S 1"C E-STOP WIRE 3"C HSP-1, RTD'S 1"C E-STOP, PSL	~~~~	~~~~		VO. 12-6002 PUMP STATION VTS PROJECT SECTIONS AND - III
8 9	SWGR1- LB-13,2 LB-13,2 CONDUIT NO. 1 2 3 4 5	-2LC 26 47 E-07A - TAE CONDUIT TAG SWGR1-2RA1 SWGR1-2RC SWGR1-4RA1 SWGR1-4RA1 SWGR1-4RC SWGR1-3LA1	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 (1) 3 (1) 3 (1) CTBANK TION (1) CTBANK TION (1) CONDUT SECTION 47 CONDUT SIZE 0 (1) CONDUT 1 (1) CON	~~~~			VO. 12-6002 PUMP STATION VTS PROJECT SECTIONS AND - III
8	SWGR1- LB-13,2 LB-13,2 CONDUIT NO. 1 2 3 4 5 6	-2LC 26 26 26 26 27 E-07A - TAE CONDUIT TAG SWGR1-2RA1 SWGR1-2RC SWGR1-4RA1 SWGR1-4RC SWGR1-3LC	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 4 5 3 9 10 CTBANK TION 1 CONDUIT DESCRIP 3"C HSP-3, RTD'S 1"C E-STOP WIRE 3"C HSP-1, RTD'S 1"C E-STOP, PSL 3"C HSP-5, RTD'S 1"C E-STOP	~~~~	~~~		VO. 12-6002 PUMP STATION VTS PROJECT SECTIONS AND - III
8 9	SWGR1- LB-13,2 LB-13,2 CONDUIT NO. 1 2 3 4 5 6 7	-2LC 26 26 26 26 27 26 26 27 26 26 27 27 27 27 27 27 27 27 27 27	1"C 1"C 1"C 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E-STOP WIRE SPACE HEATER, HEAT TRAC 3 (4) (5) 3 (9) (10) CTBANK TION (1) CTBANK TION (1) CTBANK TION (1) CONDUIT DESCRIP 3"C HSP-3, RTD'S 1"C E-STOP WIRE 3"C HSP-1, RTD'S 1"C E-STOP, PSL 3"C HSP-5, RTD'S 1"C E-STOP 3"C HSP-4, RTD'S	~~~~			. 12-6002 JMP STATION S PROJECT STEM STIONS AND WATER SYSTEM





FIT-105-1

JC-11

JI – 11

JC-21

JI-21

(EXISTING) FIT-105-2

#### **QUESTIONS AND ANSWERS**

1. **Question:** Is the contractor supposed to interpret Part 1, Item 3, SC-14 to be adding a "Buy American" clause? This is a <u>significant</u> change at a very late stage. Often times, pump cases, concrete reinforcement, pipe fittings, and other common iron and steel items are produced oversees and later assembled or shop fabricated in the United States. Please confirm and clarify the intent of this change by Addendum #3 because it will significantly affect pricing.

Answer: This was addressed in Addendum #8.

2. **Question**: Why did SAWS add the "Pollution Abatement" form to the contract documents? Before signing the form we need to know if SAWS conducted a study of the site to identify any hazardous or regulated materials such as asbestos or lead. It was stated at the prebid meeting that there should be no asbestos, but we would like assurance before signing a document stating that we have familiarized ourselves with the "Pollution Abatement" plans and specifications. We do not see any such plans or specs.

**Answer**: Based upon age of the existing facility, the site may contain lead paint coatings on piping, valves, pumps and appurtenances. If lead materials are encountered during construction, the Contractor shall follow Pollution Abatement Compliance requirements per specification 01570, Temporary Controls. See Addendum #9, Part 2, Item #1.

3. **Question**: Part 3, Item 10 does very little to clarify contractor question 30 regarding removal of existing electrical duct banks. Since the drawings are unclear about quantity and depth of all existing duct bank please provide the linear footage, depth and width of all electrical duct bank that is to be removed under this contract. There is a significant difference in price associated with demo to 2' below grade and demo all duct bank to 3' depth as most duct bank is buried 24" below grade.

**Answer**: Contractor to remove/dispose all shown ductbanks at all depths located within the facility. See Addendum #9, Part 2, Item #16.

4. **Question:** The response to contractor question #25 indicates there will be an Addendum #4 addressing removing and replacing existing valves. Please confirm this is correct and when the Addendum will be issued as we are fast approaching bid day. If bid day is going to be extended please indicate when as it also affects our work plan which would need to be modified for the added scope of work.

**Answer:** Addendum #4 was posted on March 13, 2014. The bid date has been extended to May 2, 2014 per Addendum #7.

5. **Question**: It appears that two new shut downs (New number 1 and 2) have been added to the scope of work and it appears 3 new valves need to be supplied as part of these shut downs. Please identify on the plans the exact location of the 24" and 36" Butterfly

Valves that are to be removed and replaced? With such little information and the contractor's limited knowledge of how we are to isolate and accomplish these added shut downs it is going to be very difficult to precisely estimate the cost at this late stage of the game.

Answer: Valve locations were shown in Addendum #4.

6. **Question**: We've been asked by one or more of our electrical partners to provide pricing for the controls portion of the aforementioned project. Can you tell me how to go about getting on the approved controls contractors list? Any help that you could provide would be greatly appreciated. <u>www.tmtsolutionsproviders.com</u>

**Answer:** SAWS has prequalified control contractors for the project. A contractor is required to submit approval information to be qualified.

7. **Question**: Specification Section 13300 1.06 C. 2. K. "*ASP shall provide 24-hour Service Contract for the length of the warranty period*." What level of service is required during the two year warranty period? i.e., is 24 x 7 remote support sufficient or is on-site support expected/required? Any additional information that can be provided to define this requirement further will assist us in estimating costs more accurately.

**Answer:** The ASP shall provide 24-hour, 7-days a week remote support throughout the length of the warranty period. However if remote support is not sufficient to solve the problem, then an on-site resolution is required. See Addendum #9, Part 1, Item #1.

- Question: On sheet E-24, the SCP wire number identification doesn't relate to the SCP wire numbers per sheet E-20 per Addendum #2. Please clarify.
   Answer: The SCP wire identification on sheet E-24 will be revised and issued as Addendum # 9, to match the sheet E-20, which was revised in Addendum #2. See
  - Addendum #9, Part 2, Item #15.
- 9. Question: On sheet E-14 and E-06, ductbank 11/E-06 on sheet E-14 has SWGR1-3LA1 wire in a 3" conduit, and in ductbank 10A/E-06 has SWGR1-3LA1 wire in a 2" conduit. Please clarify. Pump 5 has some issues with the wires going to where they are suppose to per the drawings.

**Answer:** The conduit in duct bank 10A/ E-06 will be 2" spare. See Addendum #9, Part 2, Item #4.

10. **Question**: On sheet E-14, at HSP 3 and 4, do you want conduit covers over the conduit? You show the cover for HSP 5.

Answer: No conduit covers are required as there is no existing slab.

- 11. Question: On sheet E-14, it tells me that FIT-105-5 should stay existing, but on sheet P-2 it is telling me to install a new 12" mag meter. Please clarify.
  Answer: FIT-105-5 will be a new flow meter. See Addendum #9, Part 2, Item #9.
- 12. **Question**: On sheet E-24 (Pump P5 Riser Diagram), the conduit from [JC-51] to [HSPCP-5] is tagged [SWGR1-3RC1]. On sheet E-09, the same conduit is tagged [SWGR1-3LC1]. Please clarify.

**Answer:** Yes, the conduit should be tagged as SWGR1-3LC1. See Addendum #9, Part 2, Item #15.

Question: On sheet E-24(Pump P5 Riser Diagram), the conduit from [JI-51} to [Motor RTD's] is tagged [SWGR1-3RA1]. On sheet E-09 the same conduit is tagged [SWGR1-3LA1]. Please clarify.

**Answer**: Yes, the conduit should be tagged as SWGR1-3LA1. See Addendum #9, Part 2, Item #15.

14. Question: On sheet E-24 (Pump P4 Riser Diagram), the conduit from [JC-52] to the existing flow meter is tagged [SCP-132] and the existing flow meter is tagged [FIT-105-3]. On sheet E-20, the conduit is tagged [SCP-135] and the flow meter is tagged [FIT-105-5]. Please clarify.

**Answer**: Yes, the conduit should be tagged as SCP-135. See Addendum #9, Part 2, Item #15.

- 15. Question: On sheet E-24 (Pump P4 Riser Diagram), the Heat Trace Control Panel and the High Service Pump Control Panel are labeled [HTCP-3] and [HSPCP-3]. On sheet E-
  - 14, the same control panels are labeled [HTCP-4] and [HSPCP-4]. Please clarify.Answer: Yes, the label should be tagged as HTCP-4 and HSPCP-4. See Addendum #9, Part 2, Item #15.
- 16. Question: On sheet E-24 (Pump 4 Riser Diagram), conduit [LB-13, 26] terminates in J-box [JP-41]. On sheet E-14, this J-box is labeled [JP-4]. Also on sheet E-14, there is a box labeled [JP-41] that connects to ductbank #13. Which box is referenced on sheet E-24 in the Riser Diagram? Please clarify.

**Answer:** Yes, on sheet E-24 the JP- 41 should be JP-4. See Addendum #9, Part 2, Item #15.

17. **Question**: The mounting detail on sheet E-23 (Detail 1) does not match the (Pump P4 Riser Diagram) on sheet E-24. Are we to assume that J-box [JC-41] on the detail should actually be J-box [JI41] and vice versa? If so the detail shows conduit [SWGR1-2LC1]

terminating in [HTCP-4] and the Riser Diagram on sheet E-24 shows the same conduit terminating in [HSPCP-4]. Please clarify.

**Answer:** The JC-41 should be JI-41 and JI-41 should be JC-41. There is no conduit designated on sheet E-23. See Addendum #9, Part 2, Item #14.

18. Question: On sheet E-24 9Pump P3 Riser Diagram), conduit [LA-18,33] terminates in J-box [JP-31]. On sheet E-14, this J-box is labeled [JP-3]. Also on sheet E-14, there is a J-box labeled [JP31] that connects to ductbank #15. Which J-box is referenced on sheet E-24 in the Riser Diagram? Please clarify.

Answer: The JC-31 should be JP-3. See Addendum #9, Part 2, Item #15.

19. **Question**: On sheet E-24 (Pump P3 Riser Diagram), the conduit from [JC-31] to [HSPCP-3] is tagged [SWGR1-2LC1]. On sheet E-10, the same conduit is tagged [SWGR1-2RC1]. Please clarify.

**Answer:** Yes, the conduit should be tagged as SWGR1-3RC1. See Addendum #9, Part 2, Item #15.

20. **Question**: On sheet E-24 (Pump P2 Riser Diagram), the conduit from [JI-22] to [FIT-105-2] is tagged [SCP-125]. On sheet E-20 the same conduit is tagged [SCP-128]. Please clarify.

Answer: Yes, the tag should be SCP-128. See Addendum #9, Part 2, Item #15.

21. Question: On sheet E-24 (Pump P2 Riser Diagram), the conduit from [JC-22] to [VCP-2] is tagged [SCP-126]. However on the sheet E-07 (Ductbank Section 16), conduit [SCP-126] is not shown in this ductbank as a conduit that is routed to [JC-22]. Also on sheet E-20, conduit [SCP-126] is shown to connect the Supervisory Control Panel [PLC-UNPS] to [SWGR/MCC]. Please clarify.

**Answer:** The conduit from VCP-126 should be SCP-127. On E-07 conduit should be SCP-127 instead of SWGR-3RP1. See Addendum #9, Part 2, Item #5.

Question: On sheet E-24 (Pump P1 Riser Diagram), the conduit from [JI-12] to [FIT-105-1] is tagged [SCP-123]. On sheet E-20, the same conduit is tagged [SCP-124]. Please clarify.

Answer: Yes, the tag should be SCP-124. See Addendum #9, Part 2, Item #15.

23. Question: On sheet E-24 (Pump P1 Riser Diagram), the conduit from [JC-12] to [VCP-1] is tagged [SCP-122]. On sheet E-07 (Ductbank Section #19), the conduit tag is only [SCP-]. Is [SCP122] the correct tag for conduit #4 in this ductbank? Please clarify.

**Answer:** On E-24 and E-07 the conduit tag should be SCP-123. See Addendum #9, Part 2, Items #5 and #15.

24. **Question**: On sheet E-15, ductbank #45 is shown leaving [EHH-2] on the east side of the hand hole. Should ductbank #45 be leaving the west side of the hand hole to connect with [EHH-1]? Please clarify.

**Answer:** Yes, the duct bank section should be moved to east side of the manhole EHH-2 to connect with EHH-1. See Addendum #9, Part 2, Item #10.

- 25. **Question**: On sheet E-24 (Pump P2 Riser Diagram), the Heat Trace Control Panel and the High Service Pump Control Panel are labeled [HTCP-3] and [HSPCP-3]. On sheet E-
  - 15, these same control panels are labeled [HTCP-2] and [HSPCP-2]. Please clarify.Answer: Yes the panels should be HTCP-2 and HSPCP-2. See Addendum #9, Part 2, Item #15.
- 26. Question: On sheet E-15, a conduit is shown form [JC-12] to [FE-105-1]. This conduit is not shown on sheet E-24 (Pump P1 Riser Diagram). Please clarify.Answer: The conduit is not required for FE-105-1 from JC-12.
- 27. Question: On sheet E-07 (Ductbank Section 20), conduit #3 [SCP-121] is shown. This conduit does not appear on sheet E-24 (Pump P1 Riser Diagram). Please clarify.
  Answer: On sheet E-07, in Ductbank Section 20, conduit #3 will be a spare. See Addendum #9, Part 2, Item #5.
- 28. Question: On sheet E-15, a conduit is shown form [JC-22] to [FE-105-2]. This conduit is not shown on sheet E-24 (Pump P2 Riser Diagram). Please clarify.
  Answer: The conduit is not required for FE-105-2 from JC-22.
- 29. Question: On sheet E-07 (Ductbank Section 17), conduit #3 [SCP-125] is shown. This conduit does not appear on sheet E-24(Pump P2 Riser Diagram). Please clarify.
  Answer: In Ductbank Section -17 conduit # 3 will be a 2" spare. See Addendum #9, Part 2, Item #5.
- 30. Question: Please see sheet E-07 (Ductbank Section 30, conduit #1) and sheet E-06 (Ductbank Section 5, conduit #5). These conduits include circuits [LU-5] and [LB-27]. However, on sheet E-19 (Panel Schedule for Panel LU), circuit 5 is listed as a [SPACE]. Please clarify.

Answer: The circuit LU-5 is not required. See Addendum #9, Part 2, Item #5.

- 31. **Question**: Please see sheet E-07 (Ductbank Section 30, conduit #2) and sheet E-06 (Ductbank Section 5, conduit #6). These conduits include [SC-4]. However, on sheet E-
  - 21 (Security Cabinet Riser Diagram), [SC-4 is not shown. Please clarify.Answer: The conduit tag should be FSP1-1. See Addendum #9, Part 2, Items #4 and #5.
- 32. **Question**: Please see sheet E-07 (Ductbank Section 30, conduit #4) and sheet E-06 (Ductbank Section 5, conduit #8). These conduits include [FSP1-2,3,4,5,6]. However, on sheet E-21 (Security Cabinet Riser Diagram), only [FSP1-1,2,3,4] are shown. Please clarify.

**Answer:** The conduit tag should be FSP1-2, 3, 4. See Addendum #9, Part 2, Items #4 and #5.

33. **Question**: On sheet E-07 (Ductbank Section 32), conduit #1 includes [FSP1-2,3]. It says the conduit size is 1". However, on sheet E-21 (Security Cabinet Riser Diagram), they are shown to be separate 2" conduits. Please clarify.

Answer: On sheet change conduit to 1". See Addendum #9, Part 2, Item #13.

34. **Question**: On sheet E-07 (Ductbank Section 34), conduit #1 includes [FSP2-2,3]. It says the conduit size is 1". However, on sheet E-21 (Security Cabinet Riser Diagram), they are shown to be separate 2" conduits. Please clarify.

Answer: On sheet change conduit to 1". See Addendum #9, Part 2, Item #13.

35. **Question**: On sheet E-21 (Security Cabinet Riser Diagram) shows 2 J-boxes between the Security Cabinet and the gate hardware. What size are these J-boxes and where are the located. Please clarify.

**Answer:** The J box shall be 20"x20"x 12" and should be located by the gate operator. See Addendum #9, Part 2, Item #13.

36. Question: On sheet E-06 (Ductbank Section 4), conduit #1 includes circuits [LU-2] and [LA-8]. However, on sheet E-19 (Panel Schedule for Panel LU), circuit 2 is listed as a [SPACE]. Please clarify.

Answer: The circuit LU-2 is not required. See Addendum #9, Part 2, Item #4.

37. Question: On sheet E-06 (Ductbank Section 4), conduit #2 includes [SC-5]. However, on sheet E-21 (Security Cabinet Riser Diagram), [SC-5] is not shown. Please clarify.
 Answer: The conduit tag should be FSP2-1. See Addendum #9, Part 2, Item #4.

38. Question: On sheet E-06 (Ductbank Section4), conduit #4 includes [FSP1-2,3,4,5,6]. Should this be [FSP2]? Also, on sheet E-21 (Security Cabinet Riser Diagram), only [FSP2-1,2,3,4] are shown.

Answer: The conduit tag should be FSP2-2, 3, 4. See Addendum #9, Part 2, Item #4.

- 39. Question: On sheet E-07A (Ductbank Section 47), there are 4 conduits that I think might not belong in this section. There are conduit #'s 4-7 and are also in Ductbank Section 6, involving the Altitude Vault on the other side of the site. Ductbank 47 goes to EHH-3 and the conduits are to continue to feed the High Service Pumps in that area. Please clarify. Answer: Yes, the conduits are associated with HSP-1, HSP-2 and HSP-3. See Addendum #9, Part 2, Item #6.
- 40. **Question**: On sheet EZ-02 detail 2, it shows using a aluminum expansion fittings when stubbing up above grade, but on EZ-02 detail 1, it doesn't show using aluminum expansion fittings. Please clarify.

Answer: Delete detail-1 on sheet EZ-02. See Addendum #9, Part 2, Item #19.

41. **Question**: On sheet E-06 (Ductbank sections 10A & 11) conduit tag [SWGR1-3LA1] is in both duct banks, They are shown with different conduit sizes and are shown to terminate in different locations. I believe it belongs in ductbank #11 (per sheet E-09). I have included the 2" conduit for [SWGR1-3LA'] in ductbank #10A, but I have not included any wire or cable. Please clarify conduits and what type of wire or cable that is required.

**Answer:** Yes the conduit belongs to Ductbank-11. Label conduit in Ductbank-10A as spare. See Addendum #9, Part 2, Item #4.

- 42. Question: On sheet E-07 (Ductbank section16), I cannot find information on the type of wire or cable required in conduit tag [SWGR-3RP1]. Please clarify.
  Answer: The tag on conduit -2 in Ductbank Section -16 shall be SCP-127. See Addendum #9, Part 2, Item #5.
- 43. Question: On sheet E-07 (Ductbank section 19), I cannot find information on the type of wire or cable required in conduit tag [SWGR-4RA1]. Please clarify.
  Answer: The conduit -2 in Ductbank Section -19 shall be spare. See Addendum #9, Part 2, Item #5.
- 44. **Question**: Ductbanks 1A and 1B are routing the primary conduits from the utility transformers to the utility power poles. Note 3 on sheet E-04 states that the contractor shall coordinate the location of the poles with CPS. There are [2] 5" conduits in each of

these ductbanks. Please clarify where the CPS poles will be located or give a distance for the ductbanks that are required by CPS.

**Answer:** Assume that the power poles are located approximately 150' from the transformers.

45. **Question**: On sheet E-14, the scale of the drawings is <sup>1</sup>/<sub>4</sub>", but on sheet E-15 the scale of the drawings is <sup>1</sup>/<sub>2</sub>". Please clarify. It looks like the drawings should be scaled with the <sup>1</sup>/<sub>4</sub>" scale.

**Answer:** Yes the scale should be  $\frac{1}{4}$ ". See Addendum #9, Part 2, Item #10.

46. **Question**: In Addendum #3 question #30, "on sheet ED-01 note 6, it tells me "approximate location of underground ductbank. Contractor shall demolish existing ductbanks. Not all underground electrical ductbanks are shown." Do you want us to demo the wire in the conduit and remove conduit above ground to approximately 2 feet below ground or do you want us to completely remove the ductbank form the site. With that said if you haven't listed or told us on the drawings, how are we supposed to figure this out without locations drawn on drawings." The answer to the question is in Addendum #3, Part 3 – Drawings, Item 10. It states Modify note #6 as follows, "Contractor shall field verify all utilities to include electrical duct bank prior to constructions; Contractor shall coordinate with Inspector to determine if duct bank shall be removed or remain. Contractor shall remove all existing conductors (wiring) and remove all duct bank that is three (3) feet below existing ground; all duct bank greater than three (3) feet depth shall remain in place." I need better clarification then what was given for the answer to this question. The contractor shall field verify all utilities to include electrical duct bank, there is no way we can do that until we dig down and find where the duct bank is. I understand about pulling the existing wire out and remove the conduit that is stub up down 3' feet below ground. The question is how deep is the duct banks below the ground. We (contractor) shall coordinate with Inspector to determine if duct bank shall be removed or remain, again that all depends on the depth or the location of the existing ductbank depending on where it is in relation to our new ductbank feeding the existing equipment.

**Answer:** Delete the note #6 in Addendum #3. Modify note #6 on ED-01: Demolish all underground ductbanks as shown on drawing C2 and ED-01. See Addendum #9, Part 2, Item #16.

#### **End of Questions and Answers**