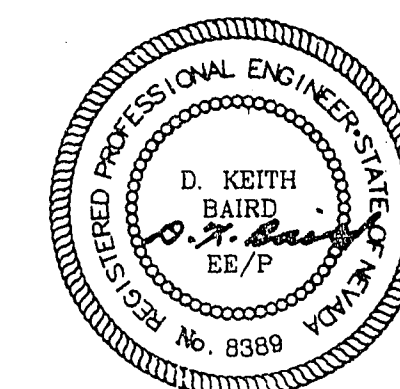


29-15-116

CONDUIT, WIRE, & CABLE SCHEDULE						
LINE NO.	CONDUIT	CONDUCTORS	FROM	TO	ROUTE	REMARKS
	SIZE					
1		SEE SITE PLAN FOR CONDUIT AND CONDUCTOR	NPC XFWR	MCC	UNDERGROUND	SHIELDED, SEE NPC SPECS
2		SEE SITE PLAN FOR CONDUIT AND CONDUCTOR	MCC	WELL	UNDERGROUND	SHIELDED, SEE SPECS
3	1-1/2"	COAXIAL XTWR CABLE	RTU	ANTENNA	UNDERGROUND	RTU CABINET POSITION G
4	1"	3/8" POLYETHYLENE TUBING	METERING PUMP	WELL	UNDERGROUND	
5	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #17	FLUID SENSOR STARTER	UNDERGROUND	
6	1-1/4"	2-2/C#20, TSP	RTU	JUNCTION BOX (2)	UNDERGROUND	RTU CABINET POSITION H
7	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #5	METERING PUMP	UNDERGROUND	
8	3/4"	2#14	RTU	FLUID SENSOR STARTER	UNDERGROUND	RTU CABINET POSITION F
9	3/4"	2-#12, 1-#12, 600V(CU)	FLUID SENSOR STARTER	ALARM LIGHTS	UNDERGROUND	
10	3/4"	2#14	FLUID SENSOR STARTER	FLUID SENSOR	UNDERGROUND	
11		1-2/C#20, TSP	RTU	LEVEL INDICATOR AND PRESSURE TRANSMITTER	UNDERGROUND	3/4" FROM PRESSURE TRANSMITTER TO LEVEL INDICATOR RTU CABINET POSITION H (SHARED IN CONDUIT W/ (6))
12	3/4"	2-#12, 1-#12, 600V(CU)	PANEL "A" CKT. #15	EXHAUST FAN STARTER	UNDERGROUND	
13	1"	4-#12, 1-#12, 600V(CU), 2-#14	EXHAUST FAN STARTER	EXHAUST FAN/LOUVERS	UNDERGROUND	2-#14 CONTROL WIRE SHOULD ROUTE FROM SWITCH TO THE STARTER BOX. SEE DETAIL 3/E9
14	3/4"	2#14	RTU	METERING PUMP STARTER	UNDERGROUND	RTU CABINET POSITION F (SHARED IN CONDUIT W/ (8))
15	1"	3-2/C #20 TSP	FLOW TRANSMITTER	RTU	UNDERGROUND	RTU CABINET POSITION C (THROUGH J-BOX (1))
16	1"	DISTRICT FURNISHED WIRE	FLOW ELEMENT	FLOW TRANSMITTER	UNDERGROUND	1/2" SEALTIGHT FLEX FOR ABOVE GROUND PORTION (USE CONNECTORS PROVIDED W/ FLOW TRANSMITTER)
17	SEE REMARK	2-#12, 1-#12	PANEL "A" CKT. #16	HEAT TRACE	UNDERGROUND	IN CONDUIT W/ (35) 3/4" WHEN NOT SHARING CONDUIT W/ (29)
18	3/4"	2-#10, 1-#12, 600V (CU)	PANEL "A" CKT. #13	HVAC	UNDERGROUND	AT CONTROL BUILDING
19	3/4"	2-#10, 1-#12, 600V (CU)	PANEL "A" CKT. #24	HVAC	UNDERGROUND	AT DISINFECTION BUILDING
20	3/4"	4-#14	RTU	INTRUSION ALARM SENSOR & SWITCH	UNDERGROUND	RTU CABINET POSITION J
21	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #12	CONTROL BUILDING, LIGHTS	UNDERGROUND	
22	3/4"	10-#14 (INCLUDES SPARES)	PLC	MCC	UNDERGROUND	
23	SEE REMARK	3/8" NYLON TUBING	NITROGEN DRAWDOWN ASSEMBLY	DRAWN DOWN OF PUMP	UNDERGROUND	1" C FROM NITROGEN DRAWDOWN ASSEMBLY TO J-BOX (26) 2" C TO DRAWDOWN AT WELL. (PNEUMATIC LINE)
24	1"	6-#18, 2-2/C#20, TSP	RTU	NITROGEN DRAWDOWN ASSEMBLY	UNDERGROUND	RTU CABINET POSITION D
25	1"	2-2/C #20 TSP	PLC	RTU	UNDERGROUND	INCLUDE SPARE RTU CABINET POSITION B
26	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #14	PLC	UNDERGROUND	
27	1"	2-#8, 1-#10, 600V (CU)	PANEL "A" CKT. #11	LIGHT POLE	UNDERGROUND	
28	SEE REMARK	1-2/C#20, TSP	RTU	PRESSURE TRANSDUCER	UNDERGROUND	RTU CABINET POSITION N (SHARED IN CONDUIT W/ (37) 3/4" C FROM LIMIT SWITCH J-BOX TO PRESSURE TRANSMITTER
29	3/4"	2-#10, 1-#10, 600V (CU)	PANEL "A" CKT. #8	W.P. RECEPTACLE	UNDERGROUND	
30	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #10	RECEPTACLE	UNDERGROUND	OUTSIDE OF CONTROL BUILDING
31	3/4"	4-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #9	RTU	UNDERGROUND	RTU CABINET POSITION A & #12 SPARE
32	1"	NYLON PULLSTRING	MCC	PUMP	UNDERGROUND	PROVIDE THREADED PLUG AT WELL SITE PULLSTRING COILED AT CONDUIT END
33	1"		RTU	PLC	UNDERGROUND	RTU CABINET POSITION M (SPARE)
34	1-1/2"	3-2/C #20 TSP, 12-#14	RTU	MCC	UNDERGROUND	RTU CABINET POSITION L (WATT TRANSDUCER)
35	1"		PANEL "A"	STUB	UNDERGROUND	STUB OUT 12" BEYOND BUILDING AND MARK
36	1"		RTU	STUB	UNDERGROUND	STUB OUT 12" BEYOND BUILDING AND MARK RTU CABINET POSITION K
37	3/4"	4-#14	RTU	LIMIT SWITCH ON CHECK VALVE	UNDERGROUND	RTU CABINET POSITION N
38	3/4"	1-2/C#20, TSP	RTU	TEMPERATURE TRANSMITTER	UNDERGROUND	AT CONTROL BUILDING RTU CABINET POSITION I
39	3/4"	1-2/C#20, TSP	RTU	TEMPERATURE TRANSMITTER	UNDERGROUND	AT DISINFECTION BUILDING RTU CABINET POSITION E
40	2"	3-#8, 1-#8, 5KV (CU)	MCC	TRANSFORMER	UNDERGROUND	SHIELDED, SEE SPECS
41	2"	3-#1, 1-#6, 600V (CU)	PANEL "A"	TRANSFORMER	UNDERGROUND	
42	3/4"	2-#12	PANEL "A" CKT. #21	SOLENOID ON SAND SEPARATOR	UNDERGROUND	
43		NOT USED				
44		NOT USED				
45		NOT USED				
46		NOT USED				
47	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #20	DISINFECTION BUILDING LIGHTS	UNDERGROUND	
48	3/4"	2-#12, 1-#12, 600V (CU)	PANEL "A" CKT. #23	EXTERIOR WALL LIGHTS	UNDERGROUND	
49	3/4"	2-2/C#20, TSP	JUNCTION BOX (2)	METERING PUMP	UNDERGROUND	

150 AMPS, THREE PHASE, 120/208V 4-WIRE LOAD CENTER, SURFACE MTD												
PANEL "A" SCHEDULE (TYPICAL AT EACH WELL SITE)												
CKT NO.	DESCRIPTION	VOLT AMP.			TRIP/ POLE	NEUTRAL BAR	TRIP/ POLE	VOLT AMP.			DESCRIPTION	CKT NO.
		A	B	C				A	B	C		
1	HVAC (CONTROL BLDG.)	1800			30/2		30/2	1800			HVAC (DISINFECTION BLDG.)	
3	HVAC (CONTROL BLDG.)		1800		---		---		1800		HVAC (DISINFECTION BLDG.)	
5	METERING PUMP			200	15/1			20/1		750	EXTERIOR WALL LIGHTS	
7	FLUID SENSOR ALARM	200			15/1			15/1	200		W.P. RECEPTACLE	
9	RTU		200		15/1			15/1		180	RECEPTACLE	
11	EXHAUST FAN/LOUVERS			550	20/1			20/1		400	LIGHTS (CONTROL BUILDING)	
13	SPARE	200			15/1			20/1	200		PLC	
15	POLE LIGHT		500		15/1			15/1		180	HEAT TRACE	
17	SPARE			500	15/1			15/1		400	LIGHTS (DISINFECTION BUILDING)	
19	SPARE	500			15/1			15/1	500		SPARE	
21	SAND SEPARATOR SOLENOID		180		15/1			15/1		500	SPARE	
23	SPARE			500	15/1			15/1		500	SPARE	
25	SPACE	0			X/X			X/X	0		SPACE	
27	SPACE		0		X/X			X/X		0	SPACE	
29	SPACE			0	X/X			X/X		0	SPACE	
31	SPACE	0			X/X			X/X	0		SPACE	
33	SPACE		0		X/X			X/X		0	SPACE	
35	SPACE			0	X/X			X/X		0	SPACE	
37	SPACE	0			X/X			X/X	0		SPACE	
39	SPACE		0		X/X			X/X		0	SPACE	
41	SPACE			0	X/X			X/X		0	SPACE	
SUB-TOTAL		2700	2680	1750				2700	2660	2050	SUB-TOTAL	
PHASE TOTAL		5400	5340	3800								
TOTAL LINE-UP AMPERES		45.0	44.5	31.7								
TOTAL VA		14,540 VOLT-AMPERE										
BOTTOM FEED PANEL DIAGRAM												
USE 3-#1, 1#6 AWG WIRE IN 2" CONDUIT (41)												
USE 100 AMPS MAIN CIRCUIT BREAKER												



NO746024.TIF

SCALE:	FILE NAME: C0746E11.DWG DATE: 04/28/95	RECOMMENDED BY: D. Keith Baird	DATE: 6-8-95
NONE	DRAWN: J. E. SALDANA DATE: 04/28/95	APPROVED BY: P. M. Mollus	DATE: 6-22-95
NONE	CHECKED: J. O. ARCEO DATE: 05/9/95	DATE: 6-22-95	

LAS VEGAS VALLEY WATER DISTRICT
1001 SOUTH VALLEY VIEW BOULEVARD
LAS VEGAS, NEVADA 89153

EQUIP WELL NO. 3A

CABLE AND PANEL SCHEDULE

DRAWING NUMBER
746

REF. SHEET NO. 11
SHEET 24 OF 28

F-4

QS-79

1565-266