

PUMP SCHEDULE

MARK	LOCATION	STATUS	NAME	TYPE	MINIMUM CAPACITY			MAX. PUMP RPM	MINIMUM SIZE CONNECTION		MOTOR			SPECIFICATION SECTION	
					GPM	FT. HEAD	EFFICIENCY		SUCTION	DISCHARGE	HP (MAX)	RPM	SPEED		ELECTRICAL
P-1	MAIN BOOSTER PUMP STATION	NEW	BOOSTER PUMP	END SUCTION	840	116	80%	3600	4"	4"	50	3600	VARIABLE	460/60/3	11216
P-2	MAIN BOOSTER PUMP STATION	NEW	BOOSTER PUMP	END SUCTION	840	116	80%	3600	4"	4"	50	3600	VARIABLE	460/60/3	11216
P-3	MAIN BOOSTER PUMP STATION	NEW	JOCKEY PUMP	END SUCTION	120	81	60%	1800	2"	1 1/2"	5	1800	CONSTANT	460/60/3	11216

GATE VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR	SPECIFICATION SECTION
GV-1	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	NON-RISING STEM W/HANDWHEEL	*
GV-2	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	NON-RISING STEM W/HANDWHEEL	*

* SUPPLIED WITH DOUBLE CHECK VALVE ASSEMBLY

BUTTERFLY VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR	SPECIFICATION SECTION
BV-1	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	ELECTRIC ACTUATOR, TYPE 6	17103
BV-2	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	GEARED OPERATOR W/HANDWHEEL	17103
BV-3	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	GEARED OPERATOR W/HANDWHEEL	17103
BV-4	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	GEARED OPERATOR W/HANDWHEEL	17103
BV-5	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	GEARED OPERATOR W/HANDWHEEL	17103
BV-6	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	GEARED OPERATOR W/HANDWHEEL	17103
BV-7	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	ELECTRIC ACTUATOR, TYPE 6	17103
BV-8	MAIN BOOSTER PUMP STATION	NEW	2"	FLANGE	LEVER OPERATOR	17103
BV-9	MAIN BOOSTER PUMP STATION	NEW	2"	FLANGE	LEVER OPERATOR	17103
BV-10	MAIN BOOSTER PUMP STATION	NEW	3"	FLANGE	LEVER OPERATOR	17103

Ref. Sheet PS5 for Operator Type Details

PIPING SCHEDULE

MARK	STATUS	TYPE	JOINT	SIZE	LINE DESCRIPTION	COLOR
NUMBER NOT USED						
WT-2	NEW	STEEL	WELDED	8"	FROM WATERLINE NO. 1 TO WT-3	BL
WT-3	NEW	STEEL	WELDED	8"	BYPASS FROM WT-2 AND WT-10	BL
WT-4	NEW	STEEL	WELDED	8"	FROM WT-2 TO WT-5	BL
WT-5	NEW	STEEL	WELDED	8"	P-1 SUCTION FROM WT-4	BL
WT-6	NEW	STEEL	WELDED	8"	P-2 SUCTION FROM WT-5	BL
WT-7	NEW	STEEL	WELDED	8"	P-1 DISCHARGE TO WT-9	BL
WT-8	NEW	STEEL	WELDED	8"	P-2 DISCHARGE TO WT-9	BL
WT-9	NEW	STEEL	WELDED	8"	P-1 AND P-2 DISCHARGE TO WT-10	BL
WT-10	NEW	STEEL	WELDED	8"/4"	DISCHARGE TO WATERLINE NO. 2	BL
WT-11	NEW	STEEL	WELDED	2"	P-3 SUCTION FROM WT-4	BL
WT-12	NEW	STEEL	WELDED	2"	P-3 DISCHARGE TO WT-9	BL
WT-13	NEW	STEEL	WELDED	3"	FROM WT-12 TO PRESSURE TANK	BL

PRESSURE TANK SCHEDULE

MARK	LOCATION	STATUS
HPT-1 *	MAIN BOOSTER PUMP STATION	NEW

* Contractor to install a New 420 Gallon Hydro-Pneumatic Tank, WESSELS Company Model FXA-1600 or approved equal. The tank shall have a carbon steel shell and heavy duty butyl bladder. The tank shall be 48" in diameter and 84" in height, with a top flanged connection, a 3" supply connection and a charging valve connection. Tank shall be NSF 61 approved, and system connections shall be lined with an NSF 61 approved coating.

CHECK VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR	ACCESSORIES	SPECIFICATION SECTION
CV-1	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	LEVER AND SPRING	-	*
CV-2	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	LEVER AND SPRING	-	17310
CV-3	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	LEVER AND SPRING	-	17310
CV-4	MAIN BOOSTER PUMP STATION	NEW	2"	FLANGE	LEVER AND SPRING	-	17310

* SUPPLIED WITH DOUBLE CHECK VALVE ASSEMBLY

PRESSURE ELEMENT SCHEDULE

MARK	LOCATION	STATUS	NAME	TYPE						RANGE (PSI)	SPECIFICATION SECTION
				INDICATOR φ	TRANSMITTER	PS-LOW	PS-HIGH	ISOLATION RING	DIAPHRAGM		
PE-1	MAIN BOOSTER PUMP STATION	NEW	SUCTION LINE PRESSURE	4 1/2"	X	X				0-100	17555
PE-2	MAIN BOOSTER PUMP STATION	NEW	DISCHARGE LINE PRESSURE	4 1/2"	X					0-150	17555

CHLORINE FEEDER SCHEDULE

MARK	LOCATION	STATUS	CONTROL	FEED RATES (LBS/DAY)		STORAGE	SPECIFICATION SECTION
				MAX.	MIN		
CLF-1	MAIN BOOSTER PUMP STATION	NEW	FLOW PACED	50	1	50 LB PAILS	11239

FLOW METER SCHEDULE

MARK	LOCATION	STATUS	SIZE	JOINT	TYPE	SPECIFICATION SECTION
FM-1	MAIN BOOSTER PUMP STATION	NEW	4"	FLANGE	MAGMETER	17525

AMMONIA FEED SCHEDULE

MARK	LOCATION	STATUS	FEED CHEMICAL	FEED RATE (gal/day) MAXIMUM	STORAGE	SPECIFICATION SECTION
AM-1	MAIN BOOSTER PUMP STATION	NEW	AMMONIUM SULFATE	20	50 LB. BAGS	11340

EXPANSION COUPLING SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	SPECIFICATION SECTION
EC-1	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	11372
EC-2	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	11372
EC-3	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	11372
EC-4	MAIN BOOSTER PUMP STATION	NEW	8"	FLANGE	11372

AIR RELEASE VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	SPECIFICATION SECTION
ARV-1	MAIN BOOSTER PUMP STATION	NEW	3"	17326
ARV-2	MAIN BOOSTER PUMP STATION	NEW	3"	17326

PIPE LEGEND

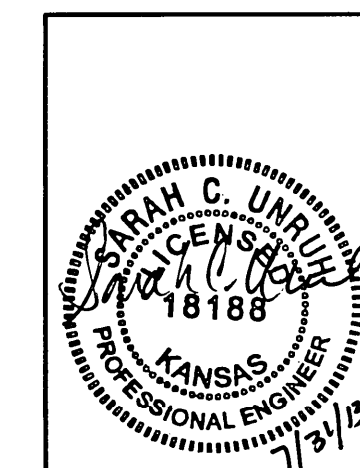
NOTE: NO BURIED PIPING TO BE PAINTED

LEGEND

AC - ASBESTOS CONCRETE
 B - BELL JOINT
 CISP - CAST IRON SOIL PIPE
 CO - COPPER PIPE
 CS - CARBON STEEL
 CSI - CARBON STEEL INSULATED
 CT - COPPER TUBING
 DI - DUCTILE IRON
 DIRJ - DUCTILE IRON RESTRAINED JOINT
 F - FLANGED JOINT
 FRP - FIBERGLASS REINFORCED PLASTIC
 M.J. - MECHANICAL JOINT
 NPT - NATIONAL PIPE THREAD
 PSCC - PRETENSIONED CONCRETE STEEL CYLINDER
 PVC - POLYVINYL CHLORIDE
 RCP - REINFORCED CONCRETE PIPE
 R.J. - RESTRAINED JOINT
 S - SOLDERED
 S.J. - SLIP JOINT
 SS - STAINLESS STEEL
 S.W. - SOLVENT WELD
 TS - TY-SEAL JOINTS
 VCP - VITRIFIED CLAY PIPE
 VIC - VICTAULIC JOINT
 W - WELDED

COLOR LEGEND

AQ - AQUA
 BB - BLUE W/ BLACK BANDS
 BK - BLACK
 BL - LIGHT BLUE
 BR - BROWN
 DB - DARK BLUE
 GR - GREEN
 GY - GRAY
 LB - LIGHT BROWN
 OB - ORANGE W/ BROWN BANDS
 OC - OLIVE GREEN
 OR - ORANGE
 RY - RED W/ YELLOW BANDS
 WT - WHITE
 YB - YELLOW W/ BLUE BANDS
 YG - YELLOW W/ GREEN BANDS
 YR - YELLOW W/ RED BANDS
 YW - YELLOW W/ WHITE BANDS
 YL - YELLOW



No.	Revision	By	Date
SEDGWICK COUNTY RURAL WATER DISTRICT #1 WATER DISTRIBUTION SYSTEM IMPROVEMENTS PIPING AND EQUIPMENT SCHEDULES GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90565 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	SCU	Job No.	34-11123
Drawn by	CAE	Date	JULY 2013
			Sht PS2 of 24