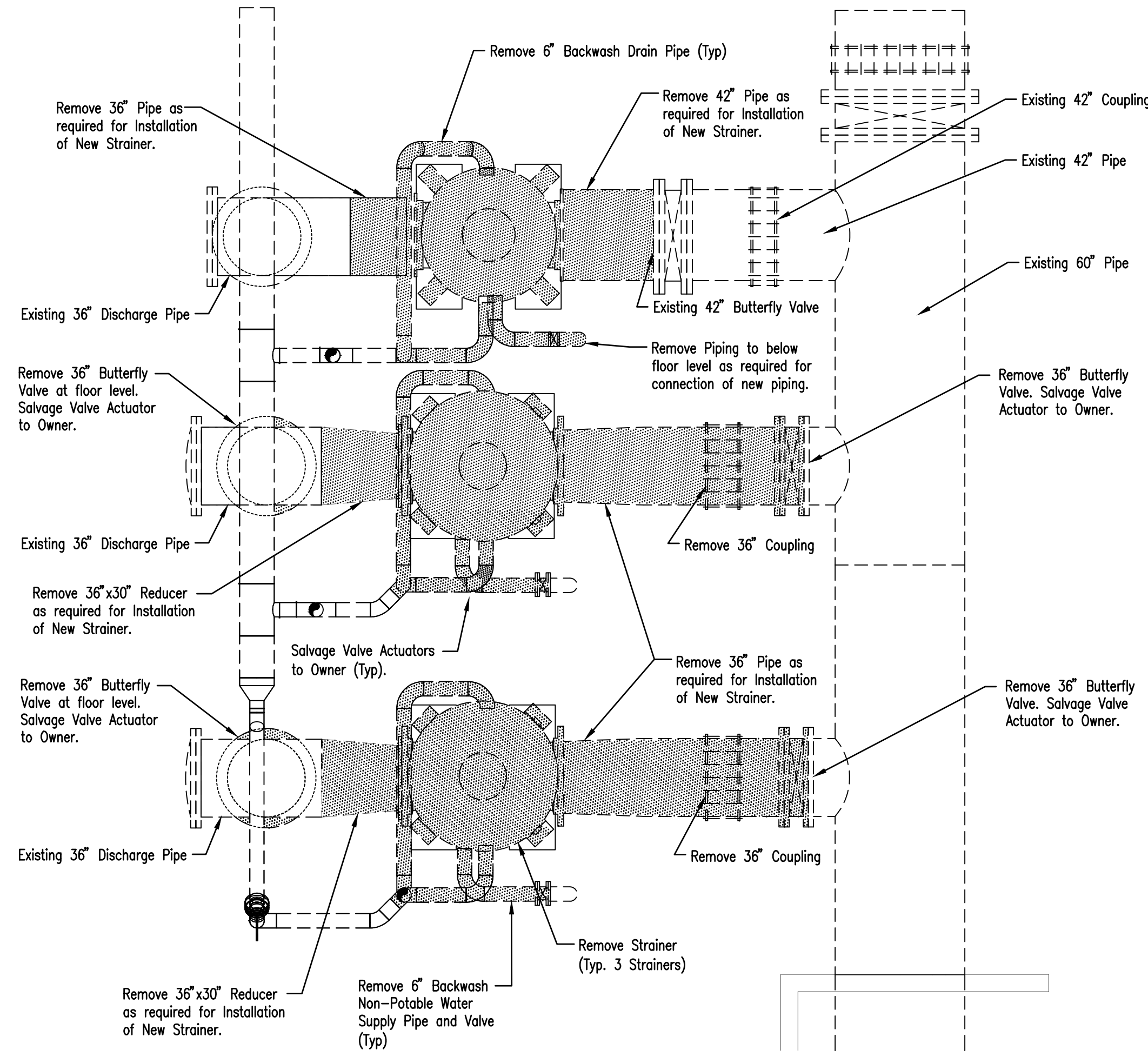


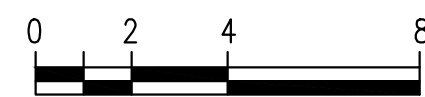
LEGEND

■ DENOTES EQUIPMENT/PIPE REMOVAL



STRAINER REMOVAL PLAN
BASEMENT FLOOR (ELEV. 1373.5 ±)

SCALE 1/4" = 1'-0"



PIPING SCHEDULE

MARK	STATUS	TYPE	JOINT	SIZE	DESCRIPTION	COLOR
WT-1	NEW	DI	F	36"x42"	REDUCER BETWEEN EXISTING 42" PIPE AND STRAINER NO. 1 INLET	ME
WT-2	NEW	DI	F/PE	36"	STRAINER NO. 1 OUTLET PIPE TO EXISTING 36" PIPE	ME
WT-3	NEW	DI	F/PE	36"	STRAINER NO. 2 INLET PIPE FROM EXISTING 36" PIPE	ME
WT-4	NEW	DI	F/PE	36"	STRAINER NO. 2 OUTLET PIPE TO EXISTING 36" PIPE	ME
WT-5	NEW	DI	F/PE	36"	STRAINER NO. 3 INLET PIPE FROM EXISTING 36" PIPE	ME
WT-6	NEW	DI	F/PE	36"	STRAINER NO. 3 OUTLET PIPE TO EXISTING 36" PIPE	ME
WT-7	NEW	SS HOSE	F	6"	STRAINER NO. 1 BACKWASH SUPPLY PIPE FROM EXISTING 6" PIPE TO STRAINER NO. 1	ME
WT-8	NEW	CS	W	6"	STRAINER NO. 1 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 1 TO WT-10	ME
WT-9	NEW	CS	W	6"	STRAINER NO. 1 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 1 TO WT-10	ME
WT-10	NEW	CS	W	8"	STRAINER NO. 1 BACKWASH DISCHARGE HEADER PIPE TO EXISTING 8" PIPE	ME
WT-11	NEW	SS HOSE	F	6"	STRAINER NO. 2 BACKWASH SUPPLY PIPE FROM EXISTING 6" PIPE TO STRAINER NO. 2	ME
WT-12	NEW	CS	W	6"	STRAINER NO. 2 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 2 TO WT-14	ME
WT-13	NEW	CS	W	6"	STRAINER NO. 2 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 2 TO WT-14	ME
WT-14	NEW	CS	W	8"	STRAINER NO. 2 BACKWASH DISCHARGE HEADER PIPE TO EXISTING 8" PIPE	ME
WT-15	NEW	SS HOSE	F	6"	STRAINER NO. 3 BACKWASH SUPPLY PIPE FROM EXISTING 6" PIPE TO STRAINER NO. 3	ME
WT-16	NEW	CS	W	6"	STRAINER NO. 3 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 3 TO WT-18	ME
WT-17	NEW	CS	W	6"	STRAINER NO. 3 BACKWASH DISCHARGE PIPE FROM STRAINER NO. 3 TO WT-18	ME
WT-18	NEW	CS	W	8"	STRAINER NO. 3 BACKWASH DISCHARGE HEADER PIPE TO EXISTING 8" PIPE	ME

BALL VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR	SPECIFICATION SECTION
BLV-1	STRAINER NO. 1 BACKWASH SUPPLY	NEW	6"	FLANGE	HANDWHEEL	33 12 16
BLV-2 *	STRAINER NO. 1 BACKWASH DISCHARGE	NEW	8"	FLANGE	ELECTRIC ACTUATOR	46 10 00
BLV-3	STRAINER NO. 2 BACKWASH SUPPLY	NEW	6"	FLANGE	HANDWHEEL	33 12 16
BLV-4 *	STRAINER NO. 2 BACKWASH DISCHARGE	NEW	8"	FLANGE	ELECTRIC ACTUATOR	46 10 00
BLV-5	STRAINER NO. 3 BACKWASH SUPPLY	NEW	6"	FLANGE	HANDWHEEL	33 12 16
BLV-6 *	STRAINER NO. 3 BACKWASH DISCHARGE	NEW	8"	FLANGE	ELECTRIC ACTUATOR	46 10 00

* PROVIDED BY STRAINER MANUFACTURER PER STRAINER REQUIREMENTS AND DRAWINGS.

STRAINER SCHEDULE

MARK	LOCATION	STATUS	TYPE	SPECIFICATION SECTION
ST-1 *	PUMP STATION BASEMENT	NEW	40 MGD SP KINNEY AP-1	46 10 00
ST-2 *	PUMP STATION BASEMENT	NEW	40 MGD SP KINNEY AP-1	46 10 00
ST-3 *	PUMP STATION BASEMENT	NEW	40 MGD SP KINNEY AP-1	46 10 00

* PROVIDED BY STRAINER MANUFACTURER PER STRAINER REQUIREMENTS AND DRAWINGS.

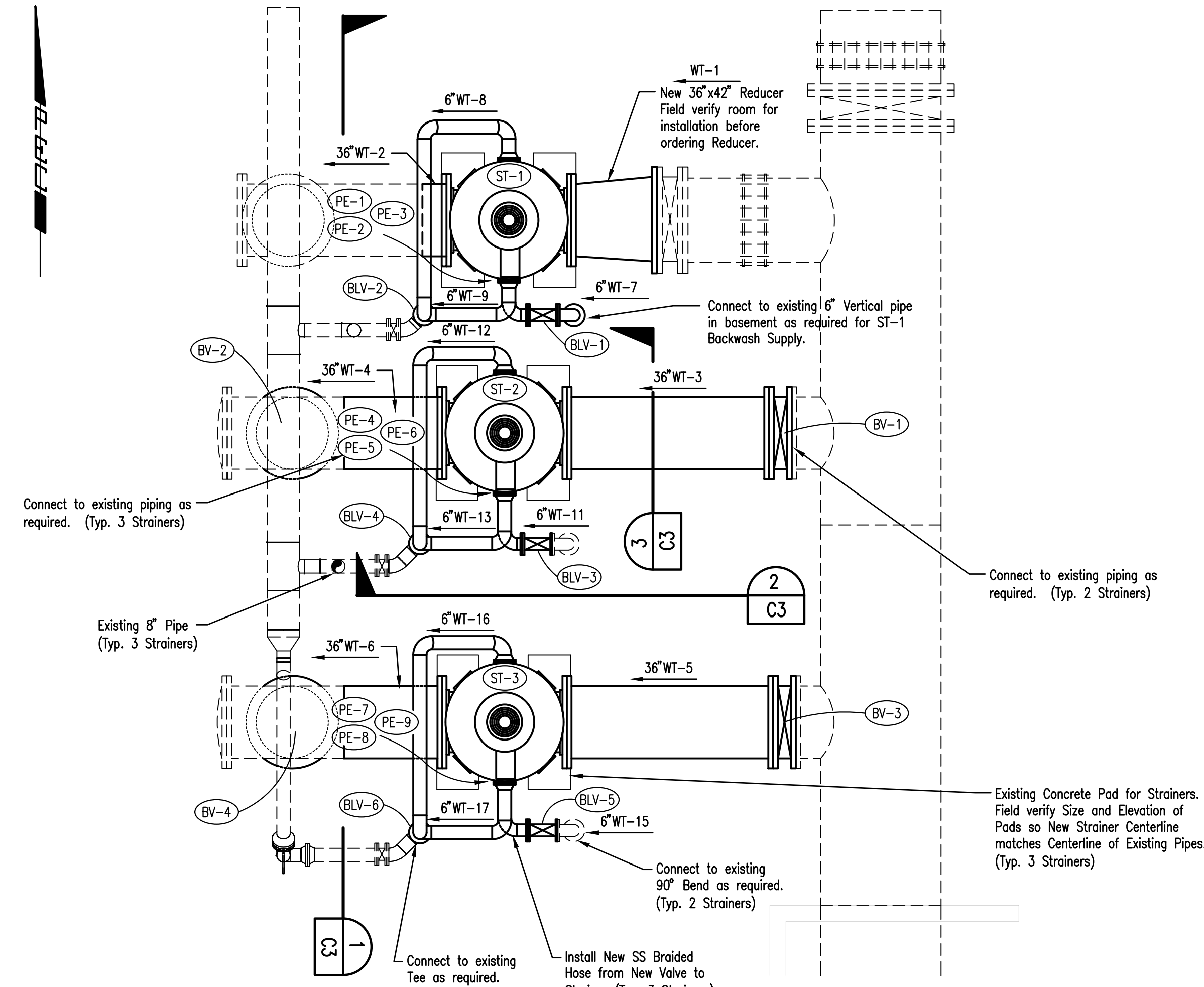
DIFFERENTIAL PRESSURE ELEMENT SCHEDULE

MARK	LOCATION	STATUS	TYPE	SPECIFICATION SECTION
PE-1 *	STRAINER NO. 1	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-2 *	STRAINER NO. 1	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-3 *	STRAINER NO. 1	NEW	DIFFERENTIAL PRESSURE SWITCH	46 10 00
PE-4 *	STRAINER NO. 2	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-5 *	STRAINER NO. 2	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-6 *	STRAINER NO. 2	NEW	DIFFERENTIAL PRESSURE SWITCH	46 10 00
PE-7 *	STRAINER NO. 3	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-8 *	STRAINER NO. 3	NEW	DIFFERENTIAL PRESSURE GAGE	46 10 00
PE-9 *	STRAINER NO. 3	NEW	DIFFERENTIAL PRESSURE SWITCH	46 10 00

* PROVIDED BY STRAINER MANUFACTURER PER STRAINER REQUIREMENTS AND DRAWINGS.

BUTTERFLY VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR	SPECIFICATION SECTION
BV-1	STRAINER NO. 2 INLET PIPE	NEW	36"	FLANGE	HANDWHEEL	33 12 16
BV-2	STRAINER NO. 2 OUTLET PIPE	NEW	36"	FLANGE	HANDWHEEL	33 12 16
BV-3	STRAINER NO. 3 INLET PIPE	NEW	36"	FLANGE	HANDWHEEL	33 12 16
BV-4	STRAINER NO. 3 OUTLET PIPE	NEW	36"	FLANGE	HANDWHEEL	33 12 16



STRAINER IMPROVEMENT PLAN
BASEMENT FLOOR (ELEV. 1373.5 ±)

SCALE 1/4" = 1'-0"



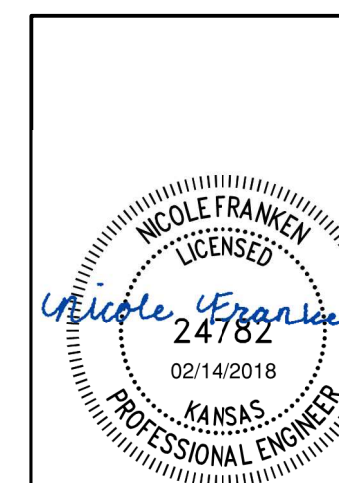
QUANTITIES

ITEM	QUANTITY
36" PIPE	30 LF
8" PIPE	11 LF
6" PIPE	43 LF
6" BRAIDED STAINLESS STEEL HOSE	10 LF
36" BUTTERFLY VALVES	4 EACH
6" BALL VALVES	3 EACH
STRAINERS AND ASSOCIATED EQUIPMENT	3 EACH
CRANE MODIFICATION	1 LS

CONTRACTOR SHALL VERIFY QUANTITIES AND WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH DIFFERENCES IN FIELD CONSTRUCTED PIPE LENGTHS. PIPE LENGTHS ABOVE INCLUDE PIPE FITTING LENGTHS.

LEGEND

- DI - DUCTILE IRON
- F - FLANGED JOINT
- W - WELDED
- MJ - MECHANICAL JOINT
- SS - STAINLESS STEEL
- ME - MATCH EXISTING
- PE - PLAIN END



No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
STRAINER REPLACEMENT PLAN AND SCHEDULES			
CHENEY PUMP STATION STRAINER REPLACEMENT			
PEC		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2891 www.pec1.com	
Designed by	SCU, NDF	Job No. 160316-006-0042	Sht. C2 of 8
Drawn by	GM	Date	FEBRUARY 2018