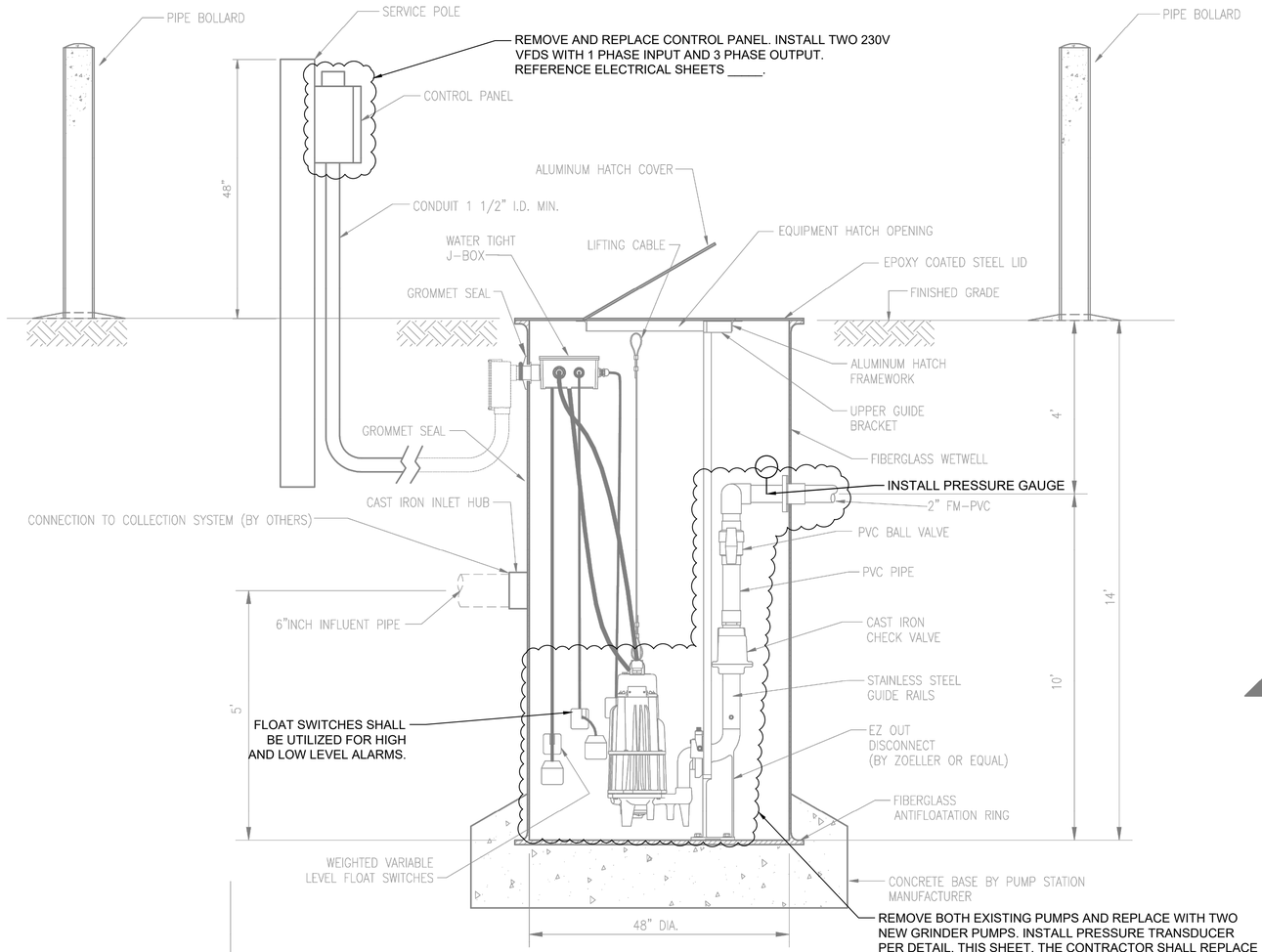
LIFT STATION NOTES:

1. DRAWINGS SHOWN ARE FROM THE ORIGINAL MID-CONTINENTAL WATER RECLAMATION FACILITY PLANS DATED JANUARY 2008
2. THE PRICE BID FOR FURNISHING AND INSTALLING ALL LIFT STATION COMPONENTS SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AS SHOWN IN THE PLANS COMPLETE, IN PLACE AND IN OPERATION.
3. UNLESS OTHERWISE NOTED, ALL FORCE MAIN PIPING INSIDE THE WET WELL SHALL BE STAINLESS STEEL OR PVC.
4. ALL HARDWARE WITHIN THE WET WELL INCLUDING GUIDE BAR, HOIST CHAIN, HOIST CHAIN CATCH, ETC. SHALL BE STAINLESS STEEL. ALL ANCHOR BOLTS, FLANGE JOINT BOLTS AND NUTS, FASTENERS AND APPURTENANCES SHALL BE STAINLESS STEEL.
5. REFERENCE ELECTRICAL PLAN SHEETS FOR ELECTRICAL DESIGN.
6. CONTRACTOR SHALL PLACE FLOATS SO FLOW INTO THE WET WELL WILL NOT INTERFERE WITH FLOAT OPERATION.
7. IN ADDITION TO COORDINATING INSTALLATION WITH THE CITY OF WICHITA, THE CONTRACTOR SHALL PROVIDE START UP, TESTING AND ADJUSTMENT OF PUMP EQUIPMENT, CONTROLS, AND RELATED COMPONENTS.
8. DO NOT SUPPORT DISCHARGE PIPING ON GUIDE RAIL OR BASE ELBOWS, SECURE AISI TYPE 316SS SUPPORTS TO WET WELL WALL.
9. CONTRACTOR SHALL COORDINATE WITH PUMP MANUFACTURER TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURER AND INSTALLATION OF EQUIPMENT.

PUMP SCHEDULE								
MARK	TYPE	STATUS	GPM	FT. HEAD	EFF. %	HP	RPM	ELECT.
P-1	FLYGT MP 3102 HT	NEW	55	116	33.5	6	3455	230 V
P-2	FLYGT MP 3102 HT	NEW	55	116	33.5	6	3455	230 V

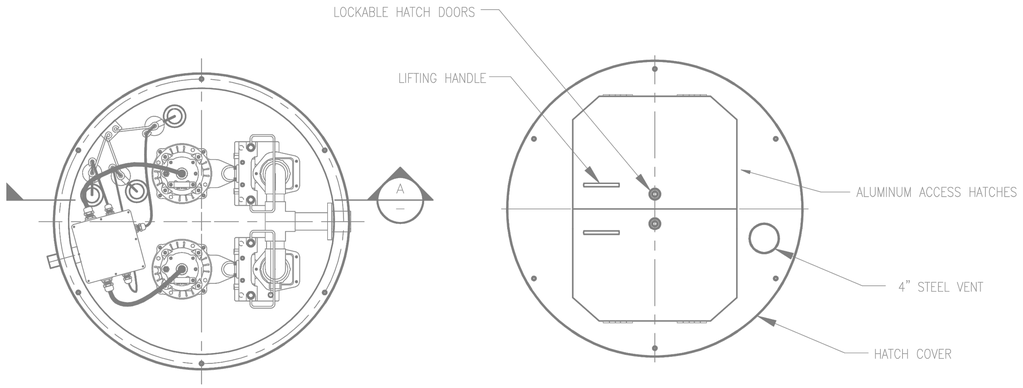
1. VFDS SHALL BE UTILIZED TO ACCOMMODATE LOWER RANGE OF HEAD PRESSURES (61-70 TDH) AT CONNECTION POINT TO THE 24". THE PUMPS SHALL BE LOCALLY CONTROLLED BASED ON LEVEL TO TURN ON AT 75% SPEED AND INCREASE TO 100% SPEED AT THE LEVEL SPECIFIED IN THE ALARM AND CONTROL ELEVATION SCHEDULE.



48" DIA. GRINDER PUMP

DETAIL A

NTS



LOWER ELEVATION

PLAN

NTS

TOP ELEVATION

PLAN

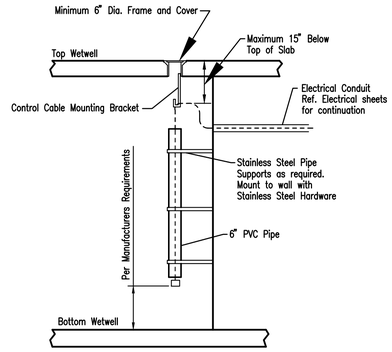
NTS

ALARM AND CONTROL ELEVATION SCHEDULE		
ALARM/CONTROL	INCHES ABOVE BASE	CONTROL INSTRUMENT
HIGH LEVEL ALARM	62	FLOAT 2
PUMP "2" ON (100% SPEED)	62	PRESSURE TRANSDUCER
PUMP "1" INCREASE SPEED TO 100%	56	PRESSURE TRANSDUCER
PUMP "1" ON (75% SPEED)	50	PRESSURE TRANSDUCER
PUMPS "1" & "2" OFF	22.5	PRESSURE TRANSDUCER
LOW LEVEL ALARM	17.5	FLOAT 1
BASE	0	N/A

1. CONTRACTOR TO VERIFY EXISTING LIFT STATION AND REPORT BACK TO ENGINEER WITH INFLUENT ELEVATION(S), BASE ELEVATIONS, AND LIFT STATION DIAMETER.

- LIFT STATION DETAIL

NOT TO SCALE



PRESSURE TRANSDUCER DETAIL

NO SCALE

PEC
PROFESSIONAL ENGINEERING CONSULTANTS
400 S. KANSAS AVE. SUITE 200
TOPEKA, KS 66603
785-233-8300 www.pec1.com

CITY OF WICHITA

TREVOR KAUFMAN LICENSED 26008 12/14/2023 KANSAS PROFESSIONAL ENGINEER

SANITARY SEWER IMPROVEMENTS
COWSKIN FORCE MAIN AND LIFT STATION 60 IMPROVEMENTS

PAUL GUNZELMAN, P.E. - INTERIM CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-2022-040654

Issue:		

JOB NO.	35-210602-001-042
DATE	DECEMBER 2023
PM	TBK
DESIGNED BY	KJW
DRAWN BY	CSL
CHECKED BY	RWG

LIFT STATION 60 REHAB DETAIL

CU502

SAVED 8/28/2023 4:12:23 PM BY KURTIS.DEKAT
PLOTTED 12/14/2023 9:39:05 AM BY CATHY LINK
U:\WICHITA-CIVIL\2021\210602\001\MUNI\DRAWINGS\AIR VALVE REPLACEMENTS\210602-001-CU502.DWG