



	NC	DTES:
	1.	WET-WELLS AND MANHOLES:
	1	I.A. WEI-WELLS SHALL BE STANDARD CONCRETE, POLYMER CONCRETE (BY U.S. COMPOSITE PIPE OR APPROVED EQUAL), OR FIBERGLASS.
	1	I.B. MANHOLES SHALL BE STANDARD CONCRETE OR POLYMER CONCRETE (BY U.S. COMPOSITE PIPE OR APPROVED EQUAL).
	1	I.D. STANDARD CONCRETE: SHALL BE LINED INSIDE WITH ALUMINUM SILICATE COMPOUND
		(LAFARGE SEWPER COAT, OR APPROVED EQUAL) TO THE FOLLOWING THICKNESS:
		MANHOLES: HALF-INCH (1/2") MINIMUM
	2.	VERIFY SIZE OF WET WELL ACCESS HATCH WITH PUMP MANUFACTURER, WITH MINIMUM SIZE BEING TWO (2) 36-INCH BY 36-INCH DOORS. THE ACCESS FRAMES AND COVERS SHALL BE CONSTRUCTED OF ALUMINUM THREAD PLATE AND SHALL BE WATERTIGHT (GASKET), AND SHALL BE RATED FOR 300 PSF. THE DOORS SHALL OPEN TO 90' AND AUTOMATICALLY LOCK. THE LIFTING HANDLES, HINGES AND ALL FASTENING HARDWARE SHALL BE ALUMINUM OR STAINLESS STEEL, TYPE 316. ACCESS COVER ON VALVE VAULT SHALL BE CENTERED ON THE VALVES AND CLEANOUT FOR ACCESS. ACCESS COVERS SHALL INCLUDE HINGED ALUMINUM GRATES FOR SAFETY. ACCESS COVERS SHALL BE ABLE TO BE SECURED WITH A PADLOCK.
· · · · · · · · · · · · · · · · · · ·	3.	THE WET WELL FLOOR SHALL BE GROUTED TO FORM A HOPPER STYLE SUMP AT THE PUMPS. THE SLOPE FOR THE GROUT SURFACE SHOULD BE A MINIMUM OF 10% AND SHOULD EXTEND FROM THE PUMP INTAKE TO THE WET-WELL WALL ON ALL SIDES OF THE WELL. GROUT SHALL BE SHAPED TO ENSURE THAT SOLIDS WILL NOT ACCUMULATE. GROUT SHALL NOT INTERFERE WITH EQUIPMENT REMOVAL.
	4.	GUIDE RAILS, BASE ELBOW, FLANGE GRONNET, AND DISCHARGE FLANGE MUST BE SUPPLIED BY PUMP MANUFACTURER. THE PUMP SHALL BE EASILY REMOVED FOR INSPECTION OR SERVICE. PERSONNEL SHALL HAVE NO REASON TO ENTER THE WET WELL. GUIDE RAILS SHALL BE SUPPORTED AT A MAXIMUM INTERVAL OF EVERY 10 FEET WITH STAINLESS STEEL SUPPORTS. SUPPLIER SHALL PROVIDE DIMENSIONS OF THE STAINLESS STEEL GUIDE RAILS TO ENSURE COMPATIBILITY
	5.	ALL HARDWARE AND FASTENERS USED SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL. GUIDE BRACKETS FOR EACH PUMP MUST BE SUPPLIED BY THE PUMP MANUFACTURER TO ENSURE COMPATIBILITY WITH SUPPLIED EQUIPMENT.
	6.	ALL STATIONARY PIPING AND VALVES USED IN THE LIFT STATION WET WELL AND VALVE VAULT SHALL BE DUCTILE IRON OR 316 STAINLESS STEEL WITH A MINIMUM WORKING PRESSURE OF 350 PSI. DUCTILE IRON PIPE AND FITTINGS SHALL BE EPOXY COATED AND LINED WITH A 100% SOLIDS EPOXY SUITABLE FOR THE WET WELL ENVIRONMENT, PROTECTO 401 (P401) OR APPROVED EQUAL. ALL HARDWARE MUST BE 300 SERIES STAINLESS STEEL. FLANGES SHALL HAVE FULL FACE GASKETS WITH 350 PSI RATING.
	7.	ALL DUCTILE IRON PIPING, FITTINGS, AND VALVES SHALL BE SHOP PRIMED AND FIELD COATED WITH TWO (2) COATS OF TNEMEC SERIES 69 HI-BUILD EPOXOLINE II, OR APPROVED EQUAL, PROVIDING A TOTAL OF 12 MILS DFT.
	8.	EACH PUMPING UNIT SHALL BE PROVIDED WITH A STAINLESS STEEL LIFTING CHAIN. LIFTING CHAIN SHALL EXTEND AT LEAST 6 FEET ABOVE WET WELL.
	9.	A 316 STAINLESS STEEL FLOAT MOUNTING ASSEMBLY SHALL BE PROVIDED. THE FLOATS SHALL BE MOUNTED AWAY FROM THE WET WELL INLET, ANY CONTROL WIRING, AND THE PUMPS TO MINIMIZE DISTURBANCE. FLOATS SHALL BE LOCATED OUTSIDE OF STILLING WELL.
	10.	PUMP DISCHARGE LINES SHALL HAVE 1/4 INCH TAPS WITH STAINLESS STEEL BALL VALVES. THE TAPS SHALL BE ACCESSIBLE AND LOCATED UPSTREAM OF THE VALVES (ON THE PUMP SIDE) IN THE EXTERNAL VAULT VALVE.
_	11.	IN THE VAULT ALL DISCHARGE LINES SHALL HAVE ADEQUATE THRUST SUPPORT MEMBERS AT
	-12.	THE DISCHARGE LINE FROM EACH PUMP SHALL BE FITTED WITH A CHECK VALVE AND A RESILIENT WEDGE GATE VALVE, WITH THE CHECK VALVE ON THE PUMP SIDE OF THE GATE VALVE AIR RELEASE VALVE(S) SHALL BE INSTALLED DOWNSTREAM OF THE GATE VALVES
	_13.	THE VALVE VAULT SHALL BE SIZED LARGE ENOUGH TO PROVIDE AT LEAST 1 FOOT OF CLEARANCE AROUND ALL VALVES AND 6 INCHES OF CLEARANCE TO ALL FLANGES. THE
	14.	COVERS SHALL BE ABLE TO BE SECURED BY A PADLOCK USING A HEAVY DUTY HASP. THE VALVE VAULT SHALL HAVE A DRAIN TO THE WET WELL. THE DRAIN SHALL HAVE A MINIMUM 5-INCH DIAMETER STAINLESS STEEL SCREEN. THE DRAIN LINE SHALL BE A MINIMUM 2 INCH DIAMETER AND BE FITTED WITH A TRAP TO PREVENT CASES OF WATER
	15.	FROM ENTERING THE VALVE VAULT. ALL VENTS SHALL BE STAINLESS STEEL. VENTS SHALL BE COATED INSIDE AND OUT PER CITY OF AUSTIN STANDARD SPECIFICATIONS. VENTS TO HAVE A 180 DEGREE BEND. A
1 4. 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16	PROTECTIVE STAINLESS STEEL SCREEN, AND THE HEIGHT OF SCREEN FROM TOP OF CONCRETE SHALL BE 2'.
4	1 U.	RINGS. CANUSA, OR EQUAL, WRAPPED SEAL SHALL BE INSTALLED ON THE OUTSIDE OF EACH JOINT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
	10	CONNECTED TO PVC PIPE DIRECTED TOWARD THE BOTTOM OF THE WET-WELL, PROVIDE MINIMUM OF 8' FROM GRAVITY LINE INLET TO BOTTOM OF WET-WELL.
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		Q= GPM RPM= RPM (MAXIMUM)
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		301 Denali Pass Dr., Suite 3
		GCD \ CIVII Design (512) 640-6590
TO PUM MINIMUM	1P INT 10%	AKE, ALLEngineering & ConsultingSLOPETexas Registered Engineering Firm F-17563
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TYPICAL WET-WELL AND VALVE VAULT PLAN AND SECTIONS



TRAVIS COUNTY WCID NO. 17
TYPICAL LIFT STATION DRAWINGS