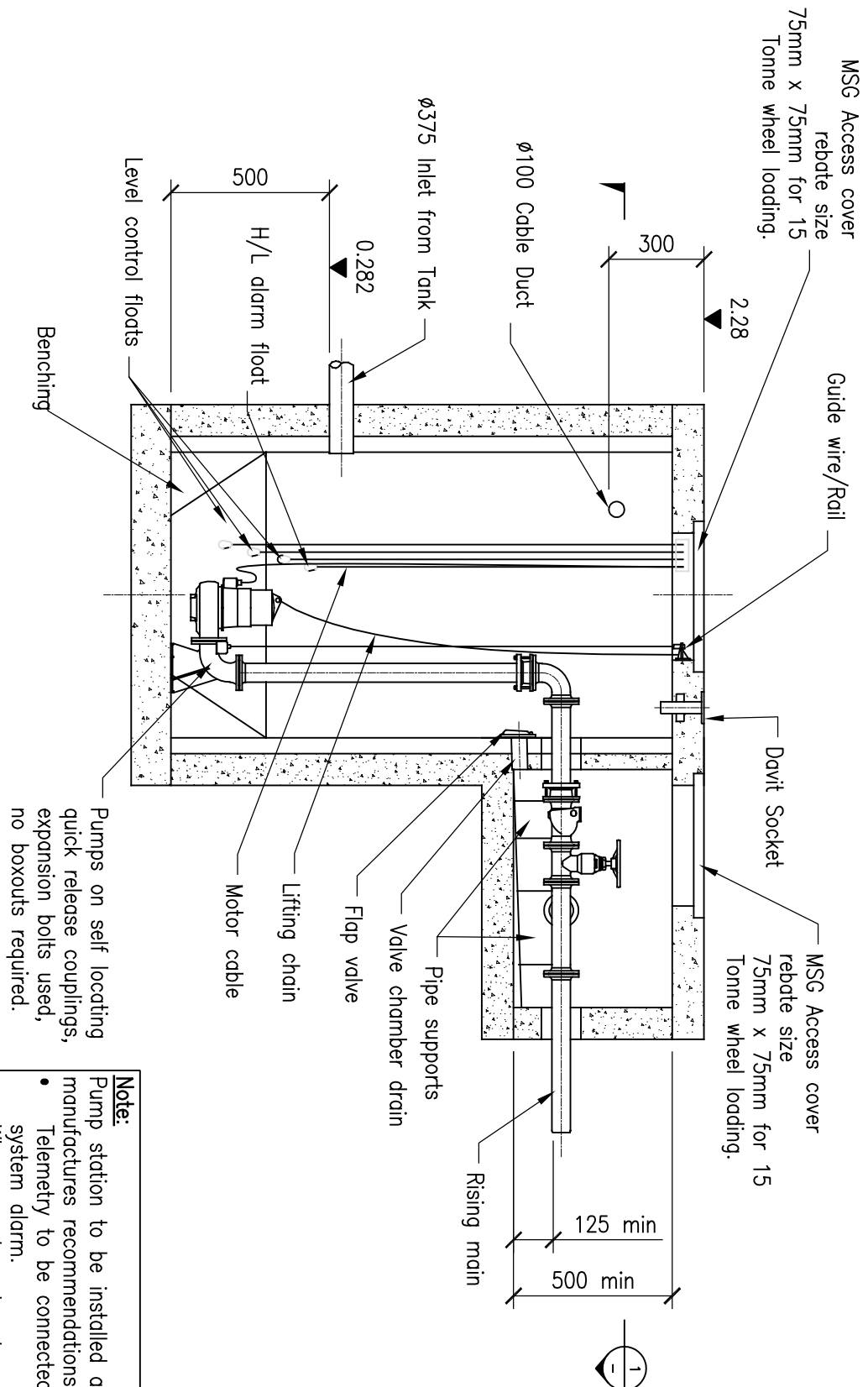
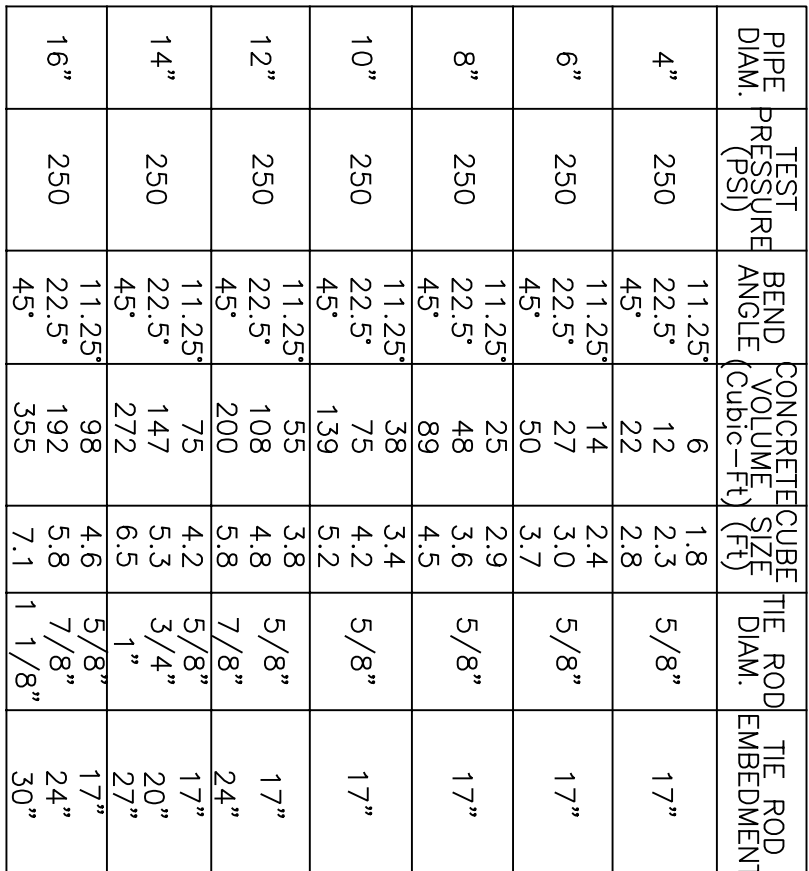
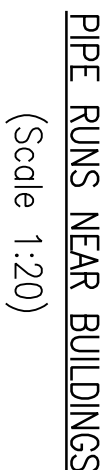




SUBMERSIBLE PUMP
(Scale 1:20)

Pumps on self locating quick release coupling, expansion bolts used, no boxouts required.

- **Note:** Pump station to be installed according to manufacturers recommendations.
- Telemetry to be connected into building system alarm.
- Where an alarm has been triggered, a red on yellow indicator notifies the operator.
- SMS text messages to be sent to the operator
- Flushing beacon to be installed on the pump housing and in the Wickes store if necessary.



Thrust at Fittings in Pounds					
	A	B	C	D	E
Size	Test Pressure PSI	Tee and Dead Ends	90° Bend	45° Bend	22.5° Bend
4"	250	3,140	4,440	2,405	1,225
6"	250	7,070	9,395	5,410	2,760
8"	250	12,565	17,770	9,820	4,905
10"	250	19,635	27,770	15,030	7,460
12"	250	28,275	39,985	21,640	11,030
14"	250	38,485	54,425	29,455	15,015
16"	250	50,265	71,085	38,470	19,515
Soil Type			Safe Bearing Load PSI		
Muck, peat, etc.			0		
Soft clay			1,000		
Sand			2,000		
Sand and gravel			3,000		
Sand and gravel cemented			with 4000		
Hard shale			10,000		

- NOTES:
1. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
2. DINNER THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
3. AREAS TO BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
4. PROVIDE TWO 1" MINIMUM DIAMETER RODS ON VALVES UP THROUGH 10" DIAMETER VALVES LARGER THAN 10" REQUIRE SPECIAL TIE ROD DESIGN.

