All testing will be performed in accordance w.i.; the ANNA CAXO, current revision. Pressure Test: After the pipe has been laid, all newly laid pipe or any valved section thereof shall be subjected to a hydrostatic pressure of at leact 1.5 times the working pressure at the point of testing.

Test pressure restrictions. Test pressures shall:

presence methicidaes. That pressures shall:

at a let her than 155 dissess have shading pressures at the highest pressure point along the best sections; set executed pipe or chront returnate design pressures;
and used by more than + 5 pip;
and very by more than + 5 pip;
and secret levels for which the design pressure of the values or hydrasits when the pressure boundary
of the test section includes closed and walves or hydrasits, when the pressure boundary
of the test section includes closed and walves or hydrasits;
and the pressure boundary
of the test section includes closed and walves or hydrasits;

Each valved section of pipe shall be filled with proceely distincted water shally and the specified text pressure shall be regarded by means of a pump consoled to the pipe in a manner statisticity to the Engineer. Section of the pipe is the process of the pressure is not able to expedic completely from the pipe, when the pipe, the discount pipe. This pipe is the pipe in the pipe is th

A include text shall be conducted concurrently with the pressure text. Leakage shall be defined as the causifity of water that must be outpiled into the needy into pipe, or any variet section terror.) In ministals pressure within 5 pile for specified series examine with the air in the piletin but here expedited and by the base terror and the conduction of the pileting the pileting that been filled with value. No pipe institution will be accepted if the leakage in greater than that determined by the following formular.

 $L = \frac{SD(P)^{p}}{133,200}$

In which I is the allowable balance, in pallors per hour, S is the length of pipeline bested in feet; D is the nominal diseaset of the pipe, in incluse; and P is the average but pressure during the lessbug but, it promots per capture lend quarter. When besting appartit confined scalar days and additional leakage per enclosed value of 0.00% gall/ar/in. of nominal under size shall be allowed. When bytants are is the less steed of the stable and the shall be allowed. It is not the stable and the less of the stable and the first stable and the first stable and the stable an

Falling creek well B'

3PSG7BNS4CO 191' STATIC WATER LEVEL Z" CHECK VALVE 318' STATIC AIR LING 6" I.D. OF WELL - Zak COLUMN PIPE WELL DEPTH 340' #4/3 POWER CONDUCTOR BOWL UNIT: JACUETI IOS650-20 ASSEMBLY 20 STAGE 5½" O.D. OF BOWL'S INCL. CONDUCTOR GLARD Franklin, MFR. [O H.P. Z30 VOLTS

SandHandler™ High Capacity 6" 50 GPM Performance Curves

PUMPING EQUIPMENT PART 1 GENERAL

WORK INCLUDED

The work includes providing all operating equipment and special materials complete with all accessories and appurtanences required for complete pumping systems, including the control system, starters, enclosures, and other equipment.

SUBMITTALS

Shop drawings, cotalog data sheets, pump curves, diagrams, design colculations, and other such data necessary to describe completely and to substanticte complines with the drawings and specifications shall be submitted for all materials, equipment and coessories specified in this section, in accordance with the procedure set forth in the Section 0.440. Complete operation and maintenance instructions and procedure and procedure and control of the submitted with the slop drawings. The standard of the submitted with the slop drawings. The standard of the submitted with the slop drawings. The standard of the submitted with the slop drawings of the submitted with the slop drawings of the submitted with the slop drawings.

ELECTRICAL EQUIPMENT

Complete starting equipment suitable for motor control indicated shall be provided in the Motor Control Center as specified. Hersepower indicated and/or specified is approximate only and shall be the specified in the specified

EQUIPMENT INSTALLATION

The installation of all equipment including setting anchor bolts and grouting base plotas shall be as recommended by the manufacturer to conform to the porticular graphication included that the porticular graphication for the property of the property of

MANUFACTURER'S REPRESENTATIVES

Require, as port of the work under this contract, and at no additional cost to the Onner, that the approved purps monufacturers and control monufacturers provide the services of competent and experienced representatives to instruct the Contractor as required for the proper installation and start up of the supported and instruct the Owner-designated employees in the operation and maintenance of the installation.

OHALITY ASSURANCE

All materials and workmanship shall be of first class quality, and shall be used for the purpose for which they were manufactured. Pumps shall comply with OSAR requirements. Each pump manufacturer shall workmanship for a period of believe (12) months from start-up, under the use, operation and service of this project. The warranty shall be written.

GENERAL PUMP REQUIREMENTS

INCHEMENT PROFITEMENTS

The jumps shell be designed and constructed in occardance with
Stembords of the Hydroulic Institute. The efficiency of the pump when
operating under conditions of the specified copposities and heads shell be
as near its peak efficiency as practicable. The pumps shell be factory tested, hydroulicity and dynamically believed
and shapped completely assessed by the profit of the profit of the pump of the profit of the prof

All pump motors and controls shall be suitable for operation at 40 degrees C ambient temperature unless indicated or specified otherwise. The pumps shall be capable of 24 hour per day operation, 7 days per week.

No spare parts for storage, required by this section, shall be delivered until such time as the Building is ready for occupancy by the Owner.

WELL PUMP

General:

Contractor shall furnish and Install a quantity of one (1) accurd Sandhander extremestable, 6°, model S600, 10 is, 20 stage, wetter luttorated, verter luttorated,

Conditions of Operation:

Capacity 55 U.S. Gallons per Minute Total Head 498' TDH

146-3970.4

PART 3 EXECUTION FOLUPMENT INSTALLATION

The installation of all shall be as recommended by the manufacturer to conform to the particular application involved, in accordance with the data state that the conformation of the conf

Install the various pump systems in strict occordance with the respective mountacturer's instructions. Units shall be plumber to consider the property of the work, test considerate of all or any part of the work, test each pump and furnish written certification that it has been installed in accordance with the menutacturer's requirements and is ready to begin operation

START UP

No form of energy shall be turned on to any part of the system prior to the receipt by the Engineer of a Certified Statement of Approval of the Installation from the System Manufacturer.

Upon completion of the system stort up, the System Monufacturer shall provide three (3) sets of complete Operation and Memoria of the System of Complete Operation and Memoria of the System of Complete of Comple

DISINFECTION EQUIPMENT

Disinfection of row water shall be accomplished by the introduction of sodium hypochiorite solution. The trypochiorite pump shall have the capacity to provide hypochiorite at a normal operating rate of 1 part per million and a sustained emergency rate of 8.5 parts per million, at a water discharge rate of 750 garts.

Two hypochlorite pumps shall be provided. One for normal use and the other for backup.

FND OF SECTION

Craig 701 FRST STREET, 30ANOKE, VEGHN 24 (540) 345-5 FAX (540) 345-7 Mattern & (

SPECIFICATIONS FOR WELL

Vertical Scale: N/A

Horizontal Scale: N/A mmission Number

SHEET 3

OF

R:\DWGS\1869\DWG\SO4 to 7.DWG