

PAINT PIPE BOLLARDS WITH 3 COATS OF BLACK ENAMEL PAINT.

NO SCALE

WELL #2 ELECTRICAL SERVICE RACK DETAIL

- PROTECTED SCREEN 6'X6'X6" CONCRETE PRESSURE GAUGE—— SLAB WITH REINFORCING LIFT-OUT BAIL FABRIC ____ -WATERTIGHT SEALED CONDUIT -WELL CAP (OPTIONAL) DEPTH TEST FITTING CONDUIT TAPPING -— HOLD-DOWN HOOK SLOPE 1/4":1' 3" raw water line to (meter and blowoff station o see sheet C4.7 for building structure) 6.625" (I.D.) HEAVY WALL WELL CASING STATIC WATER CEMENT GROUT (TYPE PORTLAND CEMENT) AIRLINE. USE VANEX 160 PSI PEX CTS-OD, SDR-9, ASTM F-876/877 -Ex. 3-inch Waterline connection Existing 3-inch raw water well supply line -DÉPTH 8-inch treated water distribution supply line 6" I.D. OF WELL ÀIR LINÈ Stillwater Drive LENGTH ROW line 1 1/4" CHECK VALVE INSTALLED Lot 55 MIN. 5' ABOVE PUMP ASS'Y. -3-Inch water line 1 1/4" GALVANIZED STEEL DROP PIRE Lot 56 -6'x6' meter & blowoff building GOULDS MODEL 33GS 22stage,5 HP -6 x 6 Concrete well head pad (see detail) -Electrical Panel Rack Lot 57 Well #2 Schematic Site Plan

WELL '#2 DETAIL/SPECIFICATIONS

SUMMARY WELL # 2 VDH CLASSIFICATION: IIB STATIC WELL LEVEL: 56' DRAWDOWN: 38 GPM @ 100' (Max Yield & Drawdown) WELL DEPTH: 365'

WELL HEAD: ELEV.= 848.00 WATER TANK OVERFLOW = 969.00 (ATMOSPHERIC STORAGE TANK AT THE RETREAT

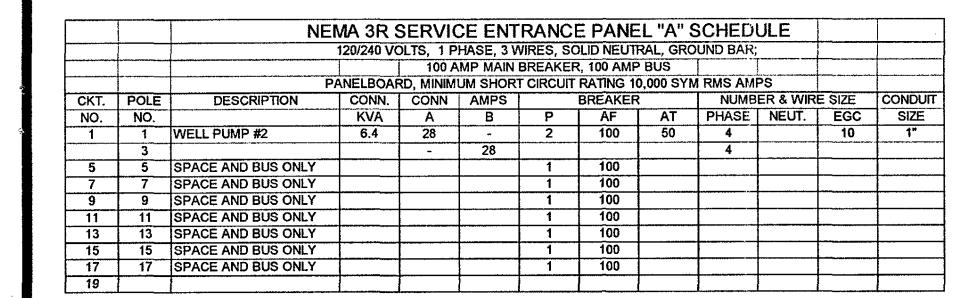
WELL CAP
CAMPBELL WATERTIGHT WELL CAP, WTC6 OR EQUAL

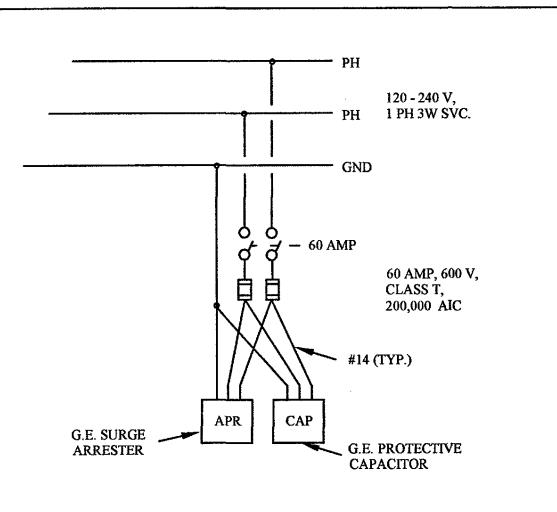
PITLESS UNIT: CAMPBELL MODEL B-20 OR EQUAL

Goulds Model 33GS 22 Stage, 5 HP, Single Phase

DROP PIPE SPECIFICATIONS USE 1 1/4 HOT-DIP GALVANIZED STEEL (INSIDE & OUTSIDE) CONFORMING TO APPLICABLE AWWA, ASTM, AND VDH STANDARDS General Notes:

- 1. Refer to approved construction drawings associated with The Retreat Water System as prepared by Berkley-Howell for Plyler Properties.
- 2. Well #2 is an existing well and was drilled and tested in 2002. Testing documents with regard to this testing have been submitted with the engineering calculations associated with this project.
- 3. Well #2 and existing Well #3 will share a common raw waterline that conveys well water to the water treatment plant facility located at the intersection of Ivy Lane and Veranda Bay Drive.
- 4. Well #2 and Well #3 shall have individual meter and sample port/blowoff assemblies installed in valve vaults located adjacent to each well. The meters will provide historical data gathering capabilities for each well. Sample ports will permit periodic testing as may be required.
- 5. Well #2 was previously dedicated as part of The Retreat and indicated in the construction drawings. Well dedication statements, documents, and plats have been duly recorded and copies filed with VDH.
- 6. The sampling port indicated for Well #2 shall extend above adjacent grade so as to prevent possible groundwater contamination. The valve vault may be extended 24-inches above grade in lieu of the insulated cover as indicated on the detail. If the vault is extended, the vault shall be properly insulated to prevent
- 7. After installation and testing, water flow from Well #2 and #3 shall be throttled using a lever handle controlled ball valve or gate valve assembly. Each well shall be throttled such that well production for each will be 25 GPM. After adjustment, the handles shall be removed to prevent accidental adjustment. Throttling is required due to water treatment plant flow limitations associated with the green sand filter system.

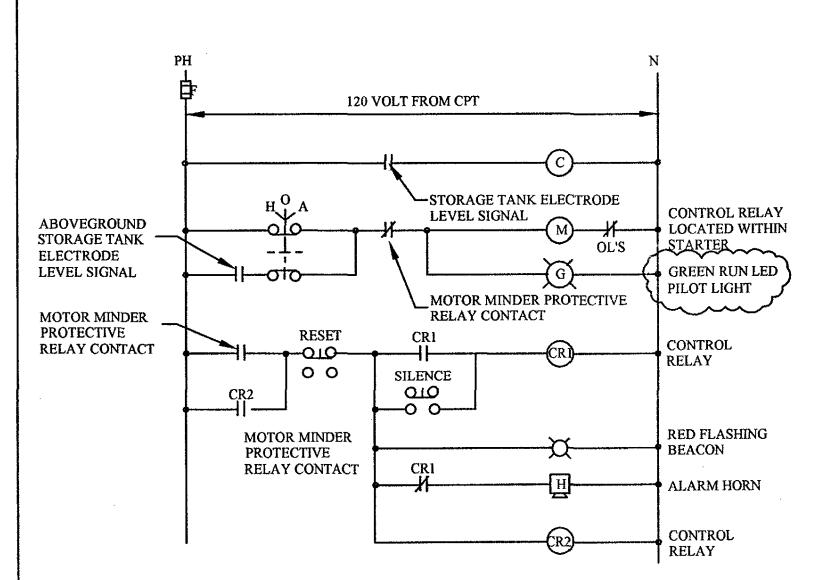




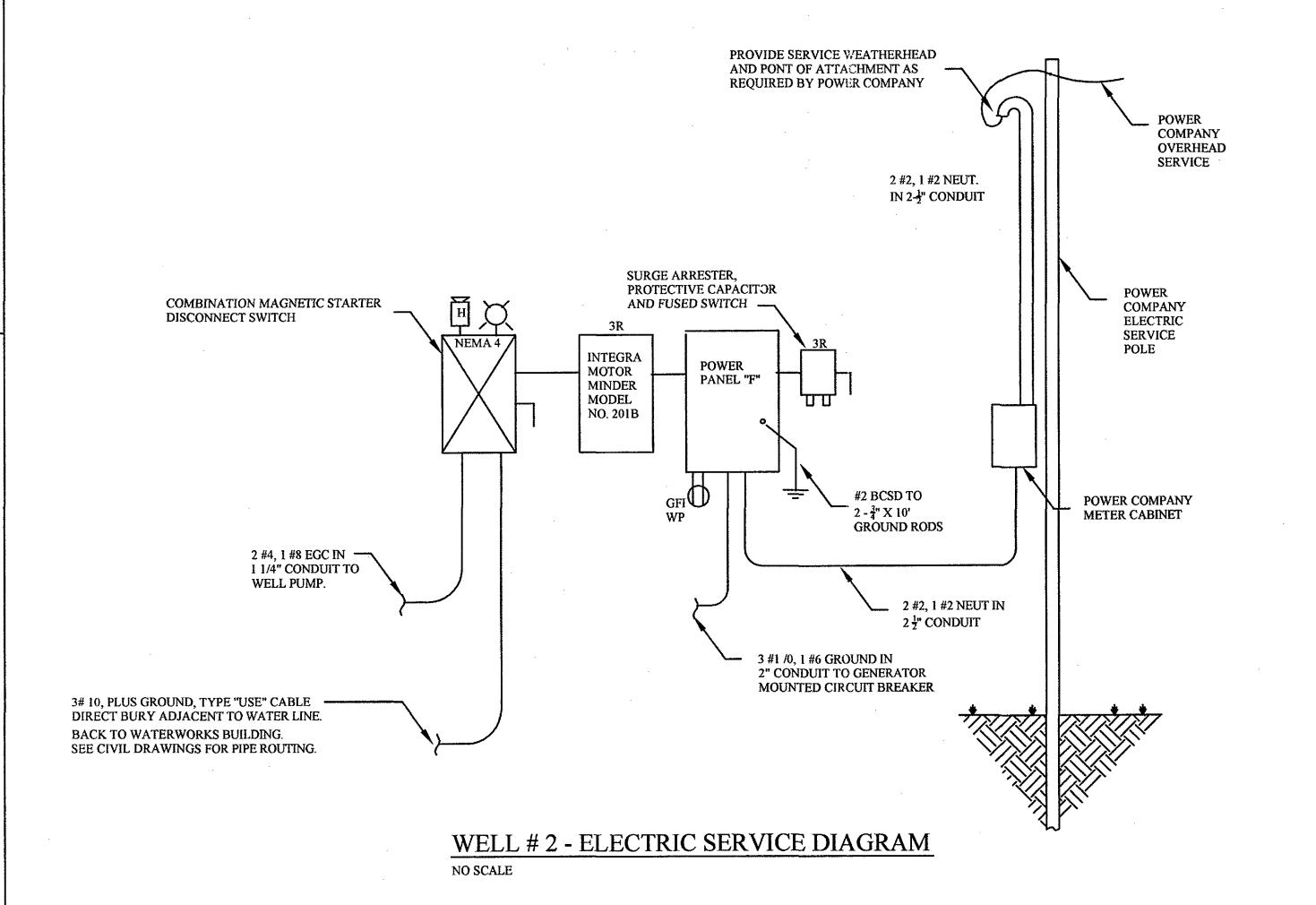
NOTE: PROVIDE NEMA 1 HOFFMAN ENCOSURE FOR ARRESTER AND CAPACITOR NEMA 3R ENCLOSURE AT WELL SITE.

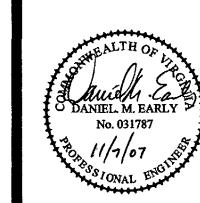
DETAIL SURGE ARRESTOR & PROTECTIVE **CAPACITOR CONNECTIONS**

NO SCALE



WELL PUMP #2 ELECTRICAL CONTROL DIAGRAM NO SCALE





ENGINEERING - SURVEYIN LANDSCAPE ARCHITECTURE

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CONSTRUCTION MANAGEMENT

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DESIGNED BY: CHECKED BY: DATE: 01 MAY 2006 JOB NUMBER: 05271 **REVISIONS:**

rev Well #2 detail per VDH Final For Constrution Water System Revisions

> SHEET NO .: C4.6

WELL # 2 & WATERLINE **DETAILS**