CHLORINE FEED SYSTEM NOTES:

THE ENGINEER HAS CHOSEN THE FOLLOWING EQUIPMENT FOR DEPICTION ON CONSTRUCTION DRAWINGS. THE CONTRACTOR MAY PROVIDE THESE ITEMS OR ENGINEER APPROVED EQUALS.

PIPING AND TUBING SPECIFICATIONS:

POLYETHYLENE PIPE

2 INCHES AND SMALLER PIPE SHALL BE MANUFACTURED FROM A PE 3408 RESIN LISTED WITH THE PLASTIC PIPE INSTITUTE (PPI) AS TR-4. THE RESIN MATERIAL WILL MEET THE SPECIFICATIONS OF ASTM D3350-02 WITH A CELL CLASSIFICATION OF PE:345464C. PIPE SHALL HAVE A MANUFACTURING STANDARD OF ASTM D2737 (COPPER TUBING SIZE), ASTM D2239 (IRON PIPE SIZE, CONTROLLED INSIDE DIAMETER) AND ASTM D 3035 (IRON PIPE SIZE, CONTROLLED OUTSIDE DIAMETER). PIPE SHALL HAVE A MINIMUM PRESSURE CLASS OF 150 PSI. THE PIPE SHALL CONTAIN NO RECYCLED COMPOUNDS EXCEPT THAT GENERATED IN THE MANUFACTURER'S OWN PLANT FROM RESIN OF THE SAME SPECIFICATION FROM THE SAME RAW MATERIAL. ALL PIPES SHALL BE SUITABLE FOR USE AS PRESSURE CONDUITS, AND PER AWWA C901, HAVE NOMINAL BURST VALUES OF THREE TIMES THE WORKING PRESSURE RATING (WPR) OF THE PIPE. PIPE SHALL ALSO HAVE THE FOLLOWING AGENCY LISTING OF NSF 61.

COUPLING STYLE FITTING

PIPE FITTINGS 2" AND SMALLER SHALL BE BRASS FORD METER PRODUCTS QUICK JOINT OR PACK JOINT FITTINGS OR APPROVED EQUAL SUITABLE FOR UNDERGROUND SERVICE. ALL FITTING CONNECTIONS SHALL HAVE STAINLESS STEEL INSERTS.

CHECK VALVES

CHECK VALVES 2" AND SMALLER SHALL BE CLASS 150 BRONZE OR STAINLESS STEEL Y-PATTERN SWING CHECK VALVES WITH THREADED ENDS. VALVES SHALL BE CRANE FIGURE 137 (BRONZE), CRANE ALOYCO FIGURE 49 OR APPROVED EQUAL.

CORPORATION STOPS AND SADDLES

CORPORATION STOPS SHALL BE FORD BALLCORP OR EQUAL WITH CORPORATION THREAD BY FLARED END FOR COPPER TUBING. ALL CORPORATION STOPS SHALL BE INSTALLED WITH A TAPPING SADDLE. SADDLES SHALL BE DOUBLE STRAP EPOXY COATED DUCTILE IRON WITH STAINLESS STEEL STRAPS, BOLTS AND NUTS. SADDLES SHALL BE FORD STYLE FC202 OR EQUAL.

CHEMICAL FEED SYSTEM NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PIPE FITTINGS.

2. THE CHEMICAL FEED PUMPS SHALL ONLY BE ENERGIZED WHEN THE WELL PUMP IS RUNNING.

- 3. CONTRACTOR SHALL PROVIDE TWO (2) OF THE FOLLOWING TEST KITS (OR APPROVED EQUAL):
- HACH CHLORINE POCKET COLORIMETER TEST KIT (USA BLUEBOOK 32125)
- HACH PHOSPHATE POCKET COLORIMETER (USA BLUEBOOK 32442)

4. CONTRACTOR SHALL PROVIDE THE FOLLOWING SAFETY EQUIPMENT:

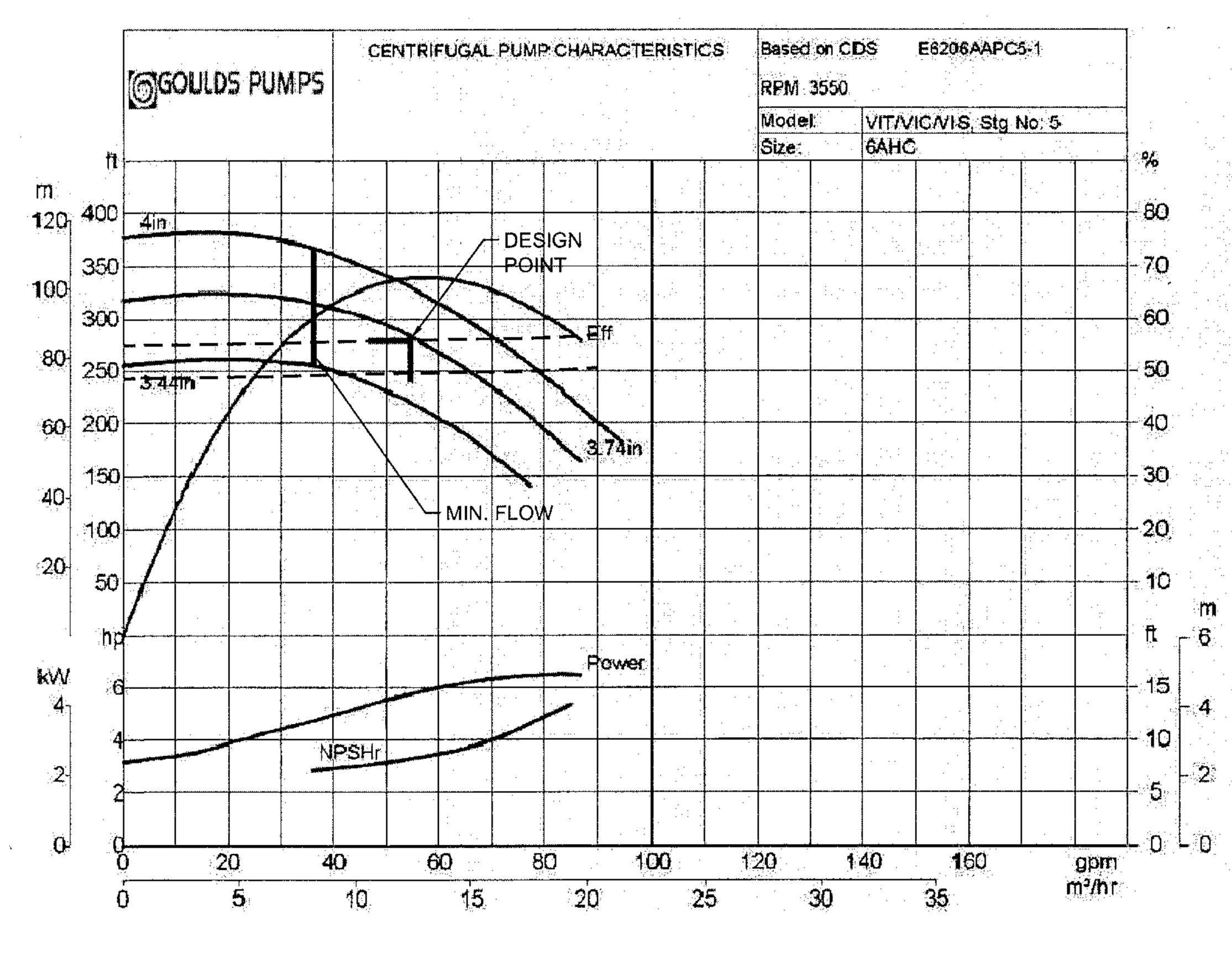
- BUTYL II CHEMICAL RESISTANT GLOVES (USA BLUEBOOK 48578 AND 48579).
- UVEX STRATEGY OTG GOGGLES (USA BLUEBOOK 41701) TWO PAIR.
- HYCAR BIB APRON (USA BLUEBOOK 41790)
- 5. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY TWO FULL 15 GALLON CONTAINERS OF SODIUM HYPOCHLORITE WITH A 12.5% CONCENTRATION. THE CONTAINER MUST BE FULLY LABELED TO INCLUDE CHEMICAL NAME, PURITY, CONCENTRATION, SUPPLIER NAME AND ADDRESS, PRECAUTIONS IN HANDLING AND REQUIREMENTS OF DU, VIRGINIA OCCUPATIONAL SAFETY AND HEALTH FOR GENERAL INDUSTRY
- 6. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY TWO FULL 5 GALLON CONTAINERS OF CARUS K-5 PHOSPHATE. THE CONTAINER MUST BE FULLY LABELED TO INCLUDE CHEMICAL NAME, PURITY, CONCENTRATION, SUPPLIER NAME AND ADDRESS, PRECAUTIONS IN HANDLING AND REQUIREMENTS OF DLI, VIRGINIA OCCUPATIONAL SAFETY AND HEALTH FOR GENERAL INDUSTRY.

CHEMICAL FEED PUMP SPECIFICATIONS:

THE CHLORINE FEED PUMP SHALL BE PULSATRON 12 GPD, 150 PSI - USA BLUEBOOK 45067. THE PHOSPHATE FEED PUMP SHALL BE PULSATRON 6 GPD, 150 PSI - USA BLUEBOOK 45066.

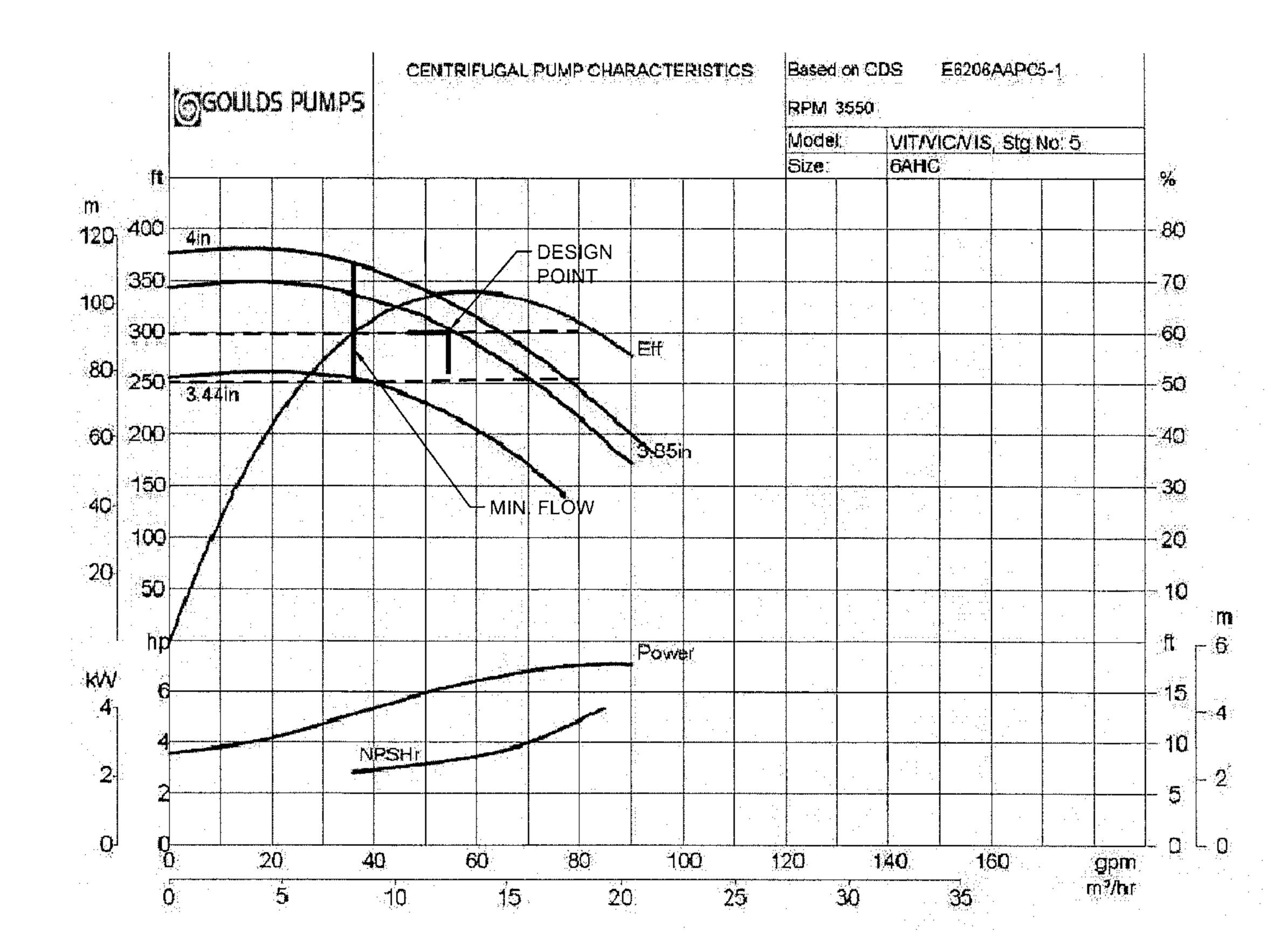
SPARE: CONTRACTOR SHALL PROVIDE ONE COMPLETE SPARE FOR EACH CHEMICAL FEED PUMP.

- THE PUMP SHOULD INCLUDE:
- 1. 30 RPM MOTOR
- 2. 120V 60 HZ POWER SUPPLY WITH STANDARD CORD AND PLUG
- 3. ANALOG SPEED CONTROL
- 4. 3/8" NEOPRENE PUMP TUBE 5. COMPRESSION TUBE NUTS
- 6. CONTINUOUS DUTY CYCLE
- 7. MAXIMUM SUCTION LIFT OF 30 FT 8. NEMA 3R ENCLOSURE



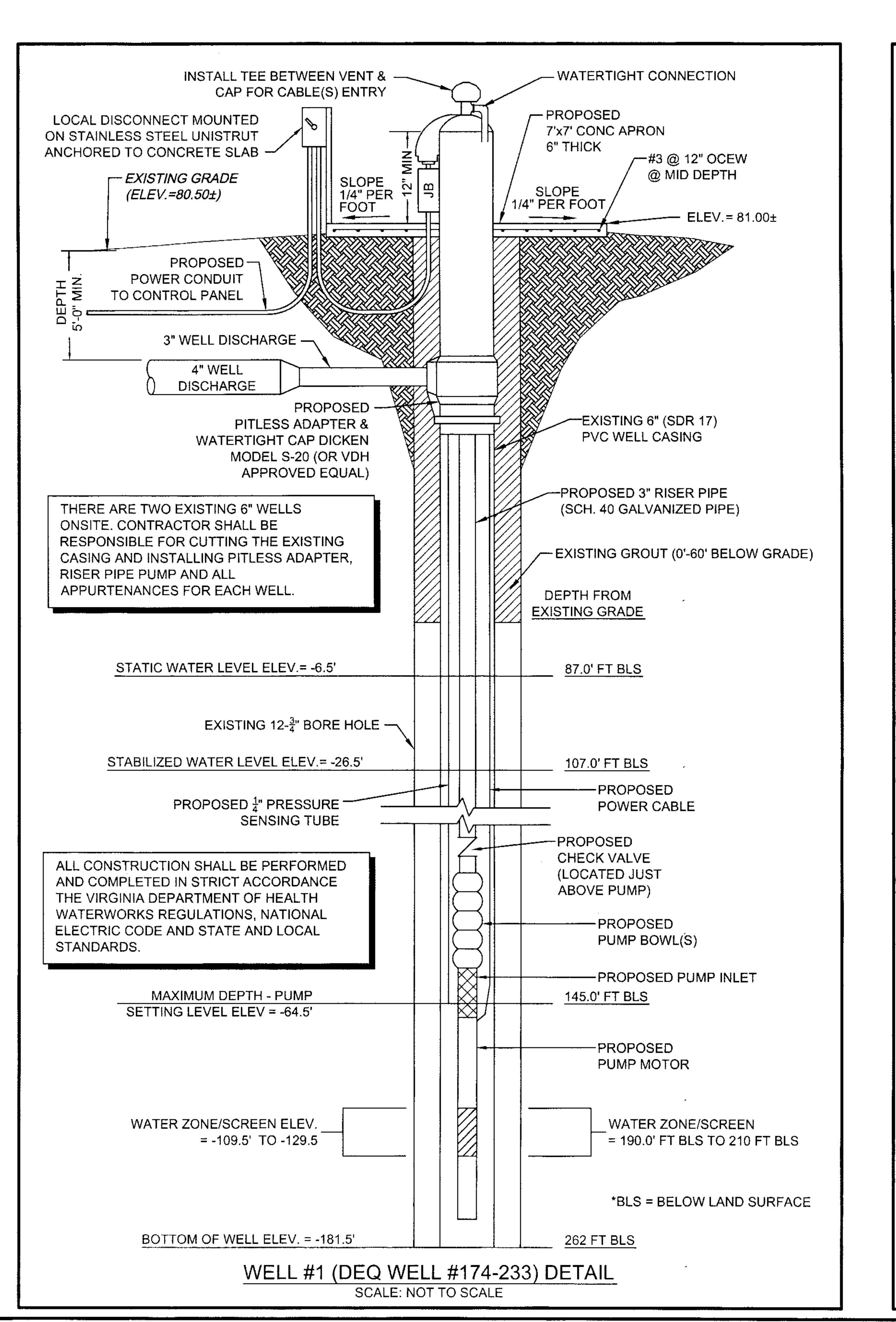
GOULDS MODEL: VIS 6AHC (5 STAGES) 10 HORSEPOWER, 55 GPM @ 286 FT TDH.

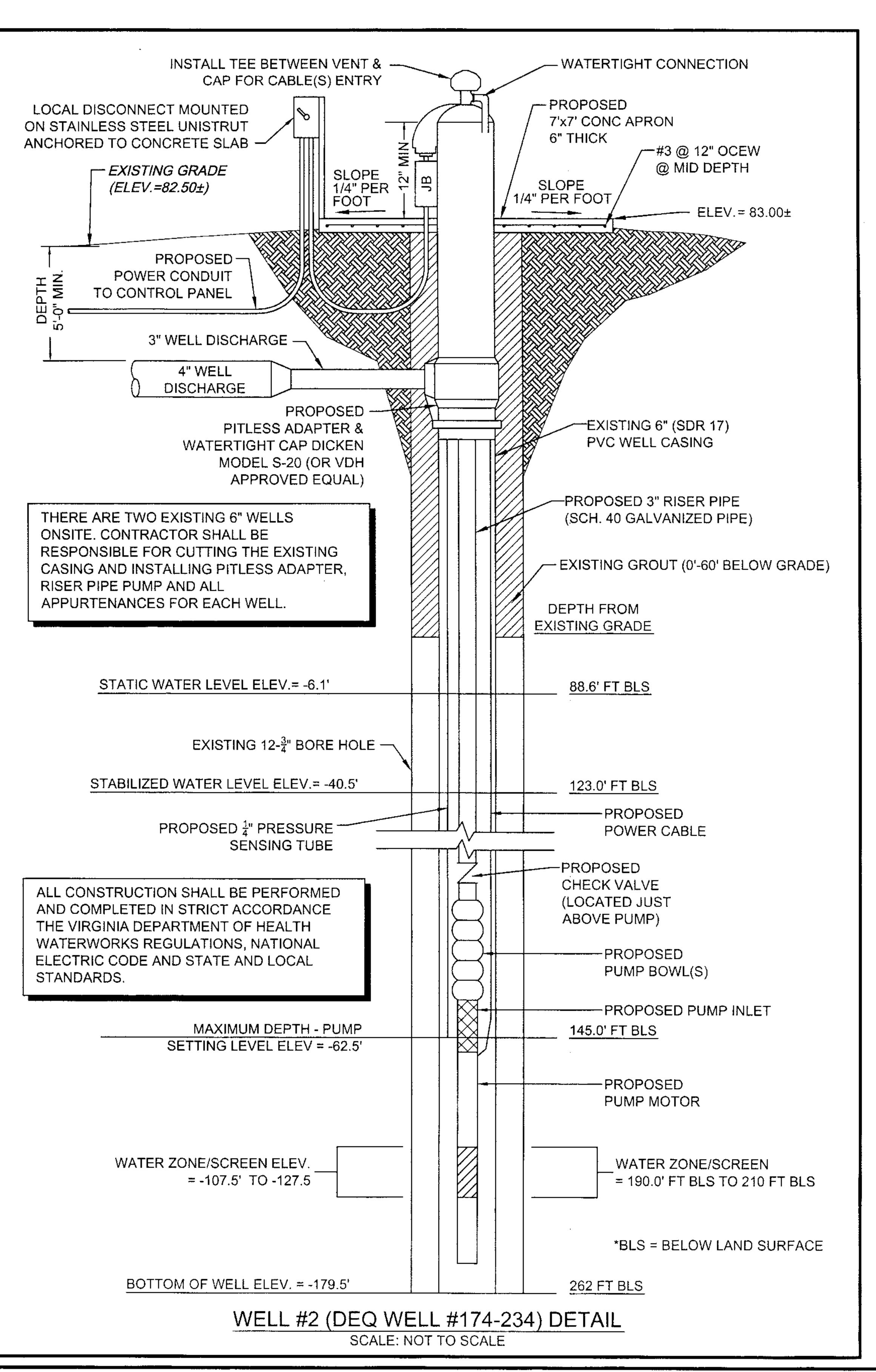
WELL #1 PUMP CURVE



GOULDS MODEL: VIS 6AHC (5 STAGES) 10 HORSEPOWER, 55 GPM @ 300 FT TDH.

WELL #2 PUMP CURVE





DRAWN BY DESIGNED BY CHECKED BY W. HUNNIUS SCALE AS SHOWN

SHEET NO