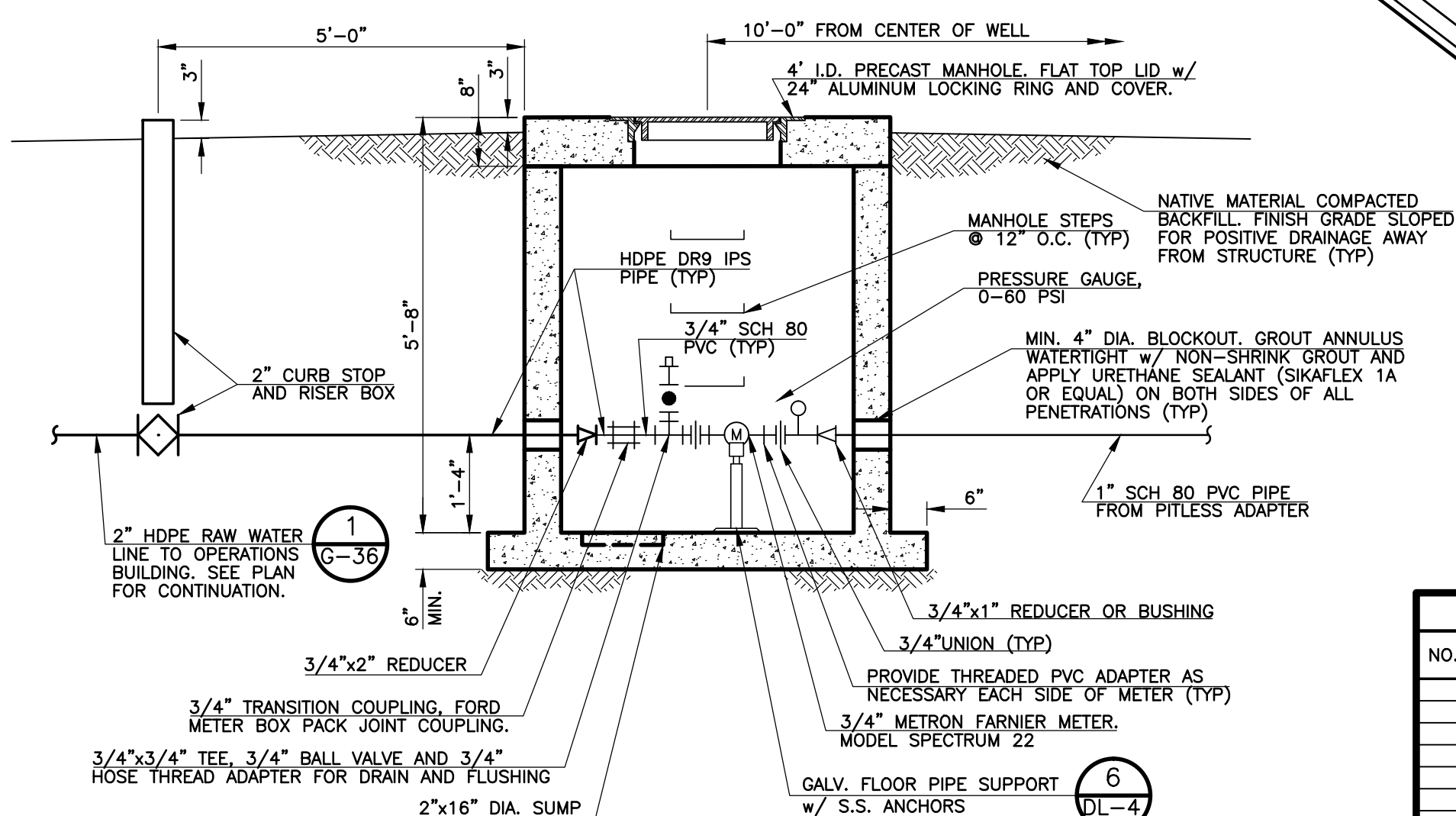


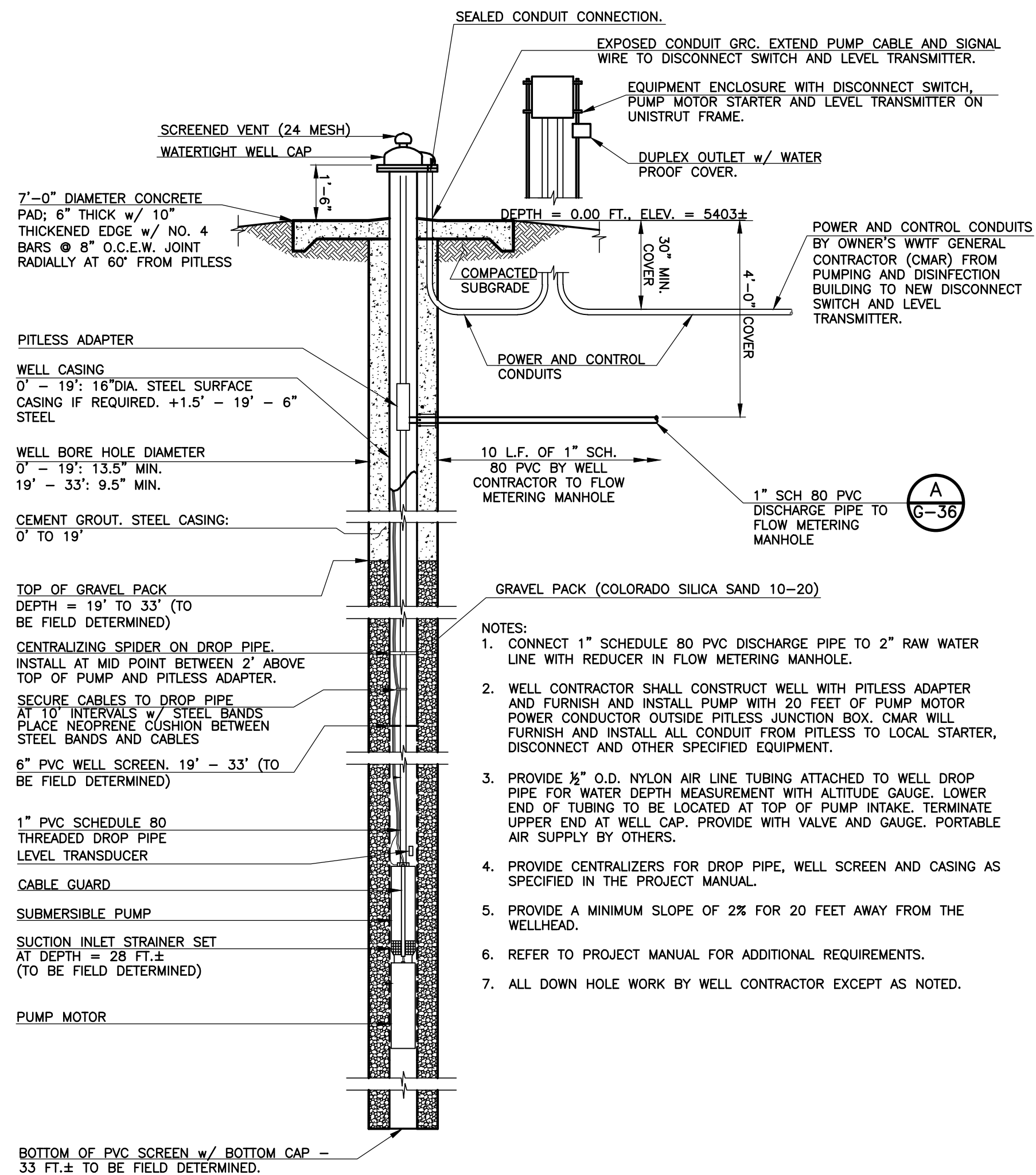
**1 RAW WATER PIPING PLAN**  
G-36 SCALE: 1" = 50'

**SHEET NOTES:**

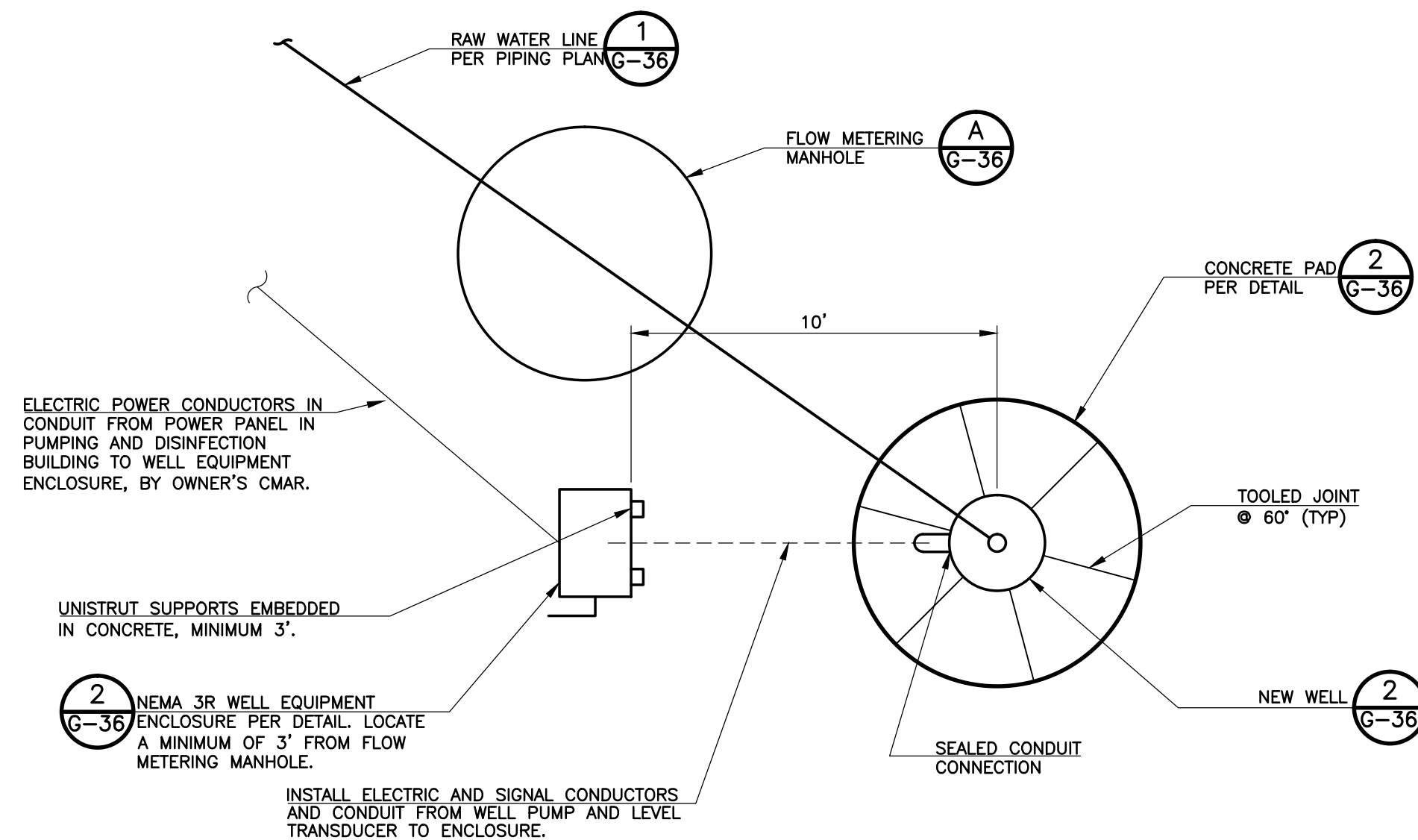
- ALL RAW WATER PIPING SHALL BE SCHEDULE 80 PVC WITH SOLVENT WELD JOINTS. SEE ALTERNATE PIPE MATERIAL NOTES.
- ALL RAW WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROJECT MANUAL.
- INSTALL ALL RAW WATER PIPING AT A MINIMUM DEPTH OF COVER OF 4'-0", UNLESS SPECIFIC ELEVATIONS ARE OTHERWISE INDICATED ON THE DRAWINGS. WHERE RAW WATER PIPING CROSSES OTHER UTILITIES OR PIPELINES, RAW WATER PIPING SHALL BE INSTALLED WITH A MINIMUM CLEAR DISTANCE OF 6" TO THE CROSSING UTILITY OR PIPE.
- ALL RAW WATER PIPING SHALL HAVE WARNING TAPE AND TRACER WIRE INSTALLED PER PROJECT SPECIFICATIONS.
- ALL CURB STOPS SHALL BE PACK JOINT ENDS WITH GROOVED CLAMPS BY FORD METER BOX COMPANY, OR EQUAL. PROVIDE STAINLESS STEEL PIPE INSERT STIFFENERS FOR HDPE AS RECOMMENDED BY THE MANUFACTURER, SEE ALTERNATE PIPE MATERIAL NOTES.
- ALTERNATE PIPE MATERIAL: HDPE DR9 IPS PIPING.
  - ALL HDPE PIPE SHALL BE BUTT FUSED DR9 IPS UNLESS OTHERWISE NOTED.
  - ALL HDPE FITTINGS SHALL BE BUTT FUSED DR9 WITH NO LESS THAN 160 PSI RATING, UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR HAS THE OPTION OF REPLACING HDPE HORIZONTAL BENDS WITH PIPE INSTALLED ON A RADIUS NO LESS THAN 6 FEET, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.



**A FLOW METERING MANHOLE SECTION**  
G-36 SCALE: NONE



**2 NEW POTABLE WATER WELL SECTION DETAIL**  
G-36 SCALE: NONE



**3 NEW POTABLE WATER WELL PLAN VIEW**  
G-36 SCALE: NONE

REVISIONS		
NO.	DATE	DESCRIPTION
1	11/30/2012	ISSUED FOR CONSTRUCTION

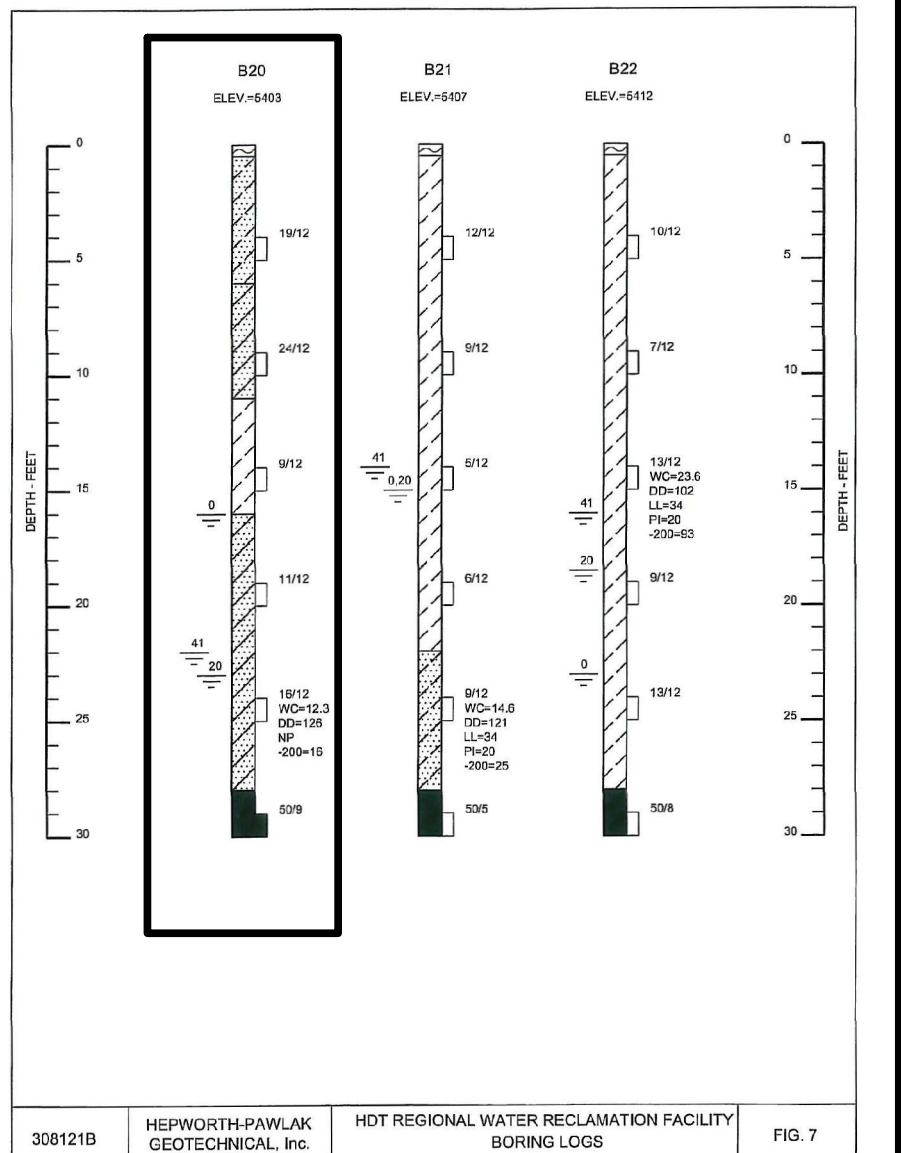
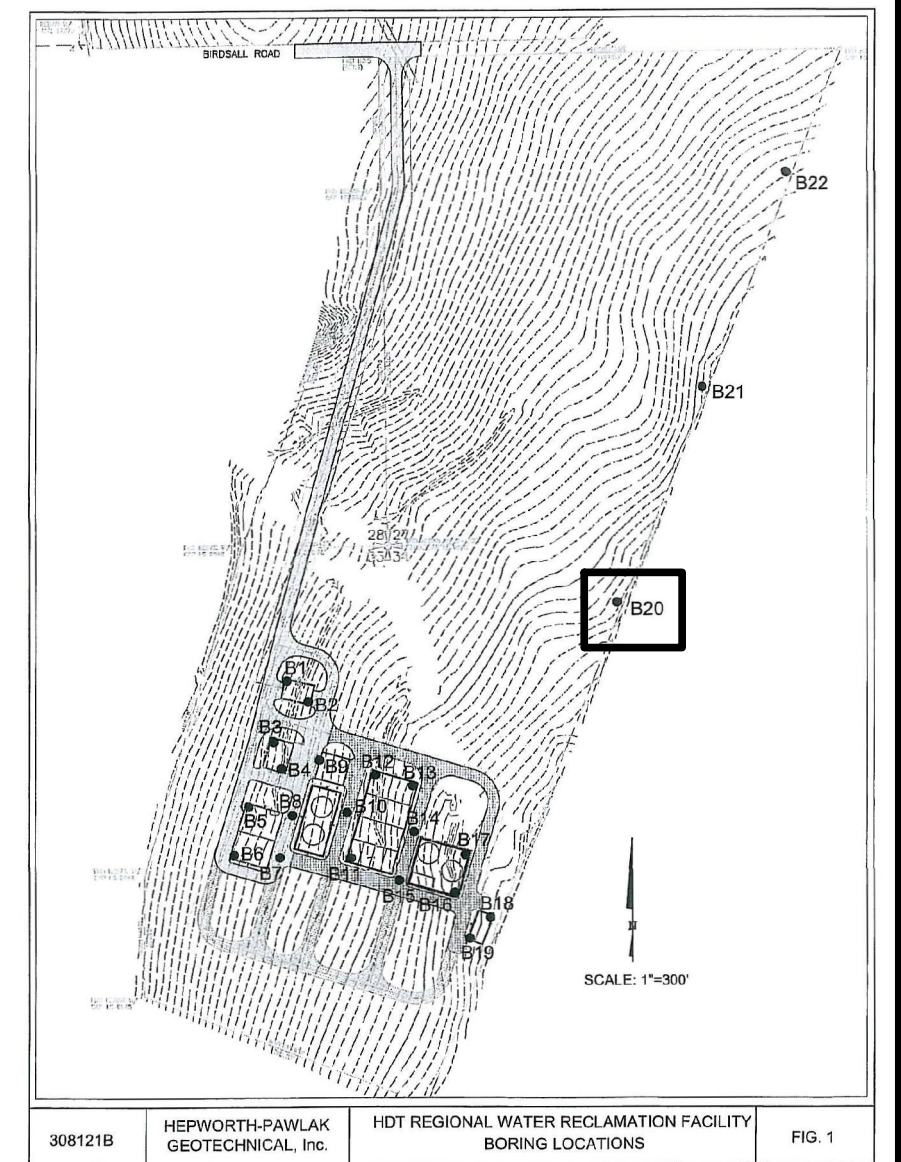
THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

**RAW WATER PIPING PLAN AND ON-SITE WELL DETAILS**  
 HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY  
 LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: MWR/MAM  
 DESIGNED: RJS/MAM  
 CHECKED: RJS  
 DATE: AUGUST 2012  
 PROJECT NO.: 20166.316  
 GMS FILE NO.: 2599

**GMS, INC.**  
 CONSULTING ENGINEERS  
 611 N. WEBER, SUITE 300  
 COLORADO SPRINGS, COLORADO 80903

SHEET  
**G-36**  
 OF  
 —



**LEGEND**

- Topsoil
- Clay (CL), slightly silty to sandy, moderate plasticity, locally porous and calcareous, stiff to very stiff, dry to wet, brown.
- Sand (SC), clayey, moderate plasticity, medium to very dense, slightly moist to wet, brown.
- Sand (SM), silty, low plasticity, medium to very dense, slightly moist to wet, brown.
- Sand (SP-SH), clean to slightly silty, gravelly, medium to coarse grained, medium to very dense, moist to wet, brown.
- Claystone bedrock, moderate to high plasticity, hard to very hard, moist, gray and brown.

**NOTES:**

- Borings were drilled between January 16, 2009 and January 28, 2009 with truck mounted Longyear 6051 and GMS 55 and 100 power 4-foot diameter, solid stem augers.
- Locations of borings were measured by GMS, Inc.
- Elevations of borings were determined from the furnished topographic map.
- The boring locations and elevations should be considered accurate only to the degree implied by the method used.
- The lines between materials shown on the boring logs represent the approximate boundaries between material types and the variations may be gradual.
- Water level readings shown on the logs were made at the time indicated. Fluctuations in the water level may occur with time.
- Laboratory Test Results:  
 WC-Moisture content (%),  
 Density (pcf),  
 Liquid Limit (LL),  
 Plasticity Index (PI),  
 NP-Atterberg Plasticity Chart,  
 UCS-Unconfined compressive strength (ksf),  
 2000-Penetration test (psi),  
 SPT-Blow count (blows/ft)

**3 BORING LOGS**  
G-36 SCALE: NONE

XREF FILENAME: BASE.DWG  
 PLOT STYLE FILE: 1000.ctb  
 FILENAME: G:\FMSD\20166\316\G36\G36.DWG