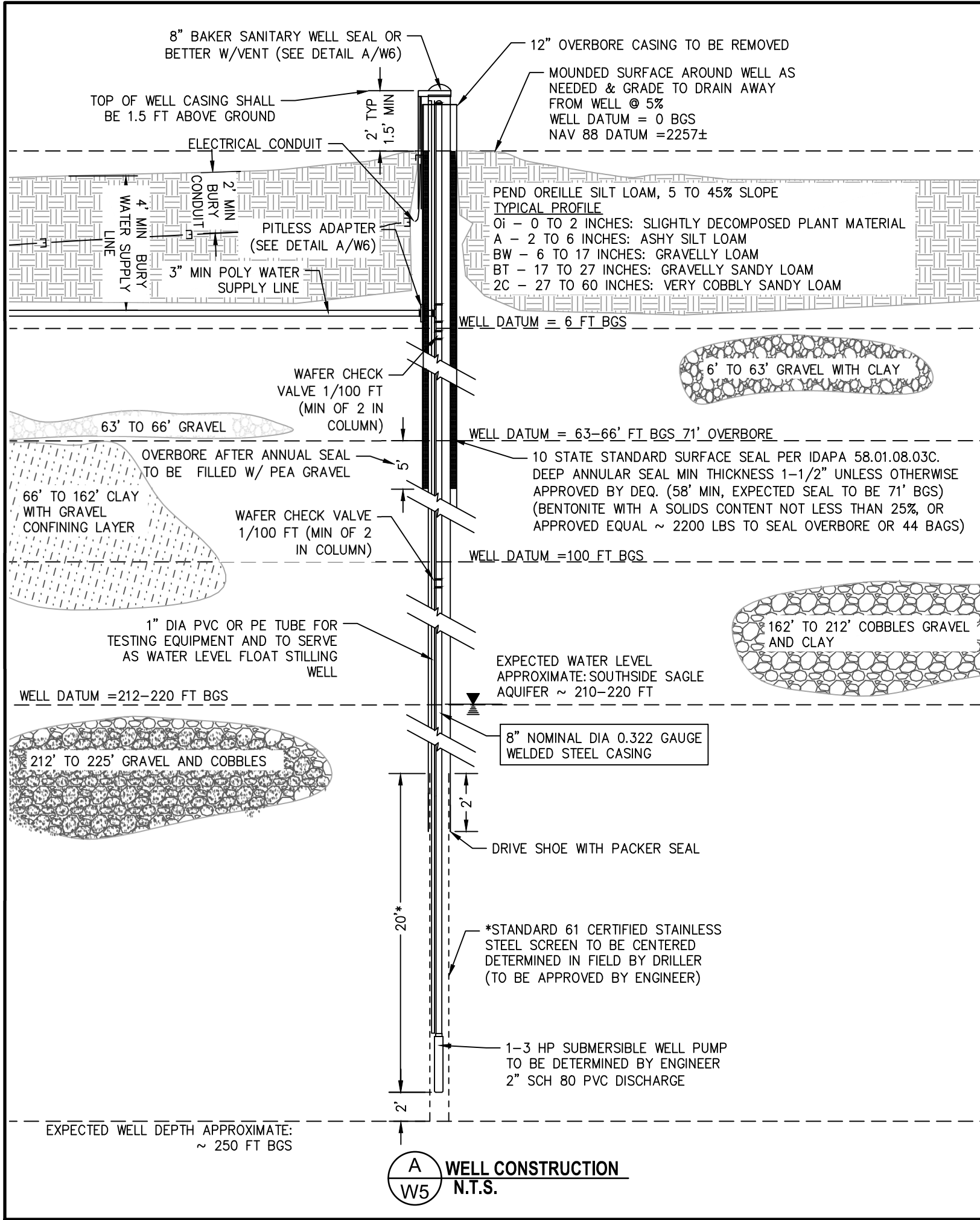


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WELL CONSTRUCTION NOTES AND SPECIFICATIONS:

ADMINISTRATIVE REQUIREMENTS

A. OWNER SHALL FILE APPLICATION FOR APPROPRIATE WATER RIGHTS WITH I.D.W.R.

B. DRILLER SHALL FILE APPLICATION FOR DRILLING PERMIT WITH I.D.W.R.

MATERIAL AND EQUIPMENT

A. EQUIPMENT AND/OR MATERIALS, INCLUDING DRILLING FLUIDS, USED IN WELL CONSTRUCTION SHALL BE N.S.F. 61 APPROVED.

GEOLOGICAL SAMPLING

A. SAMPLING INTERVAL (e.g. EVERY 5 FEET OR CHANGE IN LITHOLOGY), AND METHODS OF SAMPLING SHALL BE IDENTIFIED.

B. SAMPLES SHALL BE RECORDED AS REQUIRED BY I.D.W.R. BY THE DRILLER

DRILLING

A. ALL "DOWNHOLE" MATERIALS SHALL BE CLEANED AND DISINFECTED WITH 500 ppm CHLORINE SOLUTION, PER I.D.W.R. RULES.

B. ANSI/NSF61 APPROVED DRILLING MUD SHALL BE USED.

C. RECORD LOCATION AND APPROXIMATE VOLUME OF DRILLING MUD LOSS.

CASING

A. FOR STEEL CASING, WELDS SHALL PENETRATE FULL THICKNESS OF THE CASING WALL.

B. OVERBORE CASING SHALL BE CAPABLE OF WITHSTANDING THE STRUCTURAL LOAD IMPOSED DURING INSTALLATION AND REMOVAL.

C. WELL CASING SHALL MEET THE FOLLOWING REQUIREMENTS: 8 INCH NOMINAL CASING THICKNESS 0.322 INCHES. ( EXTERNAL 8.625" INTERNAL 7.981", THINNESS 0.322", 28.55 ~ 29.35 WEIGHT/FT).

D. TEST FOR PLUMBNESS AND ALIGNMENT IN ACCORDANCE WITH AWWA STANDARDS.

SEALS

A. DEPTH, METHOD OF PLACEMENT, AND TYPE OF WELL SEAL AS FOLLOWS:

1. SLOW AND CONTINUOUS.

2. MINIMUM 50% EXCESS SEAL MATERIAL ON SITE.

3. WITHDRAW THE TEMPORARY 12 INCH CASING AS THE SURFACE SEAL IS PLACED. VOLUME CALCULATIONS SHALL BE PROVIDED.

4. CONSULTANT SHALL BE PRESENT AND CONTACT MADE WITH IDWR PRIOR TO SEAL PLACEMENT.

B. TOP OF WELL SEAL SHALL BE IN ACCORDANCE WITH THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS.

1. BAKER OR EQUIVALENT SEAL.

2. VENT SHALL BE 1-1/2 INCH DIAMETER WITH 24 MESH CORROSION RESISTANT SCREEN AND TERMINATE IN A DOWNWARD POSITION.

SCREENS AND PERFORATED CASINGS

A. CASING PERFORATIONS SIZE, TYPE, AND SPACING SPECIFIED SHALL BE NOTED ON WELL LOG.

B. ANSI/NSF STANDARD 61 CERTIFIED STAINLESS STEEL SCREEN AS REQUIRED.

C. SCREEN WILL BE DETERMINED BASED ON THE RESULTS OF SIEVE ANALYSIS.

D. SCREEN SHALL BE CENTERED IN ANNULAR SPACE.

E. APERTURE ENTRANCE VELOCITY NOT TO EXCEED 0.1 FPS. PUMPING WATER LEVEL IS TO REMIAN ABOVE THE SCREEN AT TIMES.

WELL DEVELOPMENT

A. DEVELOPMENT SHALL INCLUDE REMOVAL OF NATIVE SILTS AND CLAYS, DRILLING MUD AND FINER GRAVEL PACK.

B. MINIMUM WELL CAPACITY SHALL BE OBTAINED. PRELIMINARY PRODUCTION TEST SHALL BE REQUIRED.

C. FINAL SUMP CLEAN UP IS REQUIRED.

WATER SAMPLING

A. WATER SYSTEM TO BE PUMPED AT 100% OF YIELD FOR 24 HOURS AFTER DRAWDOWN HAS STABILIZED. DESIRED WATER QUAINITY IS ABOUT 63 GPM (MAXIMUM DAY DEMAND). ALTERNATE 6-HOUR PUMP TEST MAY BE PERFORMED AT HYDROGEOLOGISTS RECOMMENDATION.

B. A FULL BATTERY OF WATER QUALITY TEST SHALL BE RUN ON WATER SAMPLE.

C. MEASURMENT OF SAND CONTANT SHALL BE TAKEN. MUST BE <5 PPM.

SITE CONTROL

A. RUNOFF SHALL NOT CONTAIN SEDIMENT UNLESS EROSION CONTROL MEASURES, AS APPROVED BY D.E.Q. ARE IN PLACE.

B. WATER LEAVING THE SITE SHALL NOT CONTAIN WELL DRILLING CHEMICALS OR SEALANT MATERIAL.

C. WELL CONSTRUCTION WASTE AND/OR DEBRIS, INCLUDING DRILLING FLUID WASTE, SHALL BE DISPOSED OF AT A SANITARY LANDFILL OR OTHER APPROVED SITE.

D. HOLES, PITS, EQUIPMENT AND CHEMICALS SHALL BE SAFETY STORED AND FENCED PER OSHA STANDARDS.

PROJECT COMPLETION

A. ALL DRILLING OILS, CASING, CLAY AND PIPING SHALL BE REMOVED AFTER DRILLING IS COMPLETE. A GENERAL SITE CLEAN UP IS REQUIRED.

B. A TEMPORARY CAP SHALL BE TACK WELDED IN PLACE.

C. WELL LOG, PRODUCTION PUMP SPECIFICATIONS, PUMPING CURVES,TEST RESULTS AND REPORTS SHALL BE SUBMITTED TO ENGINEER, DEQ AND IDWR.

D. FINAL DISINFECTION AND FLUSHING SHALL BE PROVIDED AFTER PLACEMENT OF PERMANENT PUMPING EQUIPMENT.

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Know what's below. Call before you dig.

PROJECT #: 24024

DRAWN BY: JMW, ICE

CHECKED BY: DWL

Digitally signed by Daniel W. Larson, DN: c=US, e=Dan@7BEngineering.com, o=7B Engineering, ou=7B Engineering, cn=Daniel W. Larson, P.E.

Location: Sandpoint, ID

Reason: I am approving this document

Contact Info: Dan@7BEngineering.com

Date: 2025.01.07 18:05:42 -0800

SCALE: NTS (VALID FOR 11"x17" PRINTS ONLY)

SHEET W5 OF W6

PROFESSIONAL ENGINEER REGISTERED 10086 STATE OF IDAHO DANIEL W. LARSON

ORIGINAL STORED AT: 7B ENGINEERING 414 CHURCH ST STE 203 SANDPOINT, ID 83864

DRAWING DATE: 1/6/2025

SHEET TITLE WELL CONSTRUCTION PROFILE

OWNER PANHANDLE GRAVITY SPORTS LLC

PROJECT SAGLE BIKE PARK SAGLE, IDAHO (BONNER COUNTY)