NOTES:
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
3. THE PRESSURE SENSOR ASSEMBLY SHALL BE PROVIDED FOR CONTINUOUS WELL LEVEL MONITORING. ONE (1) WATER MONITORING TUBE ASSEMBLY SHALL BE PROVIDED FOR DRAIN/DRAW- DOWN ON WATER RESOURCE MANAGEMENT PURPOSES. THE PRESSURE SENSOR ASSEMBLY SHALL BE ADJUSTED TO PASS THROUGH ANY BENDS IN THE PVC CONDUIT.
4. CONTRACTOR AND DOW TO VERIFY STATIC WATER LEVEL BEFORE PUMP INSTALLATION. LENGTH OF SUBMERGENCE FOR PRESSURE SENSOR & MONITOR TUBE ASSAMBLIES SHALL BE ADJUSTED AS NEEDED.
5. PUMP/MOTOR DESIGN:
   - WATER LEVEL ELEV. 120.12'
   - MOTOR: 100 HP, 480 VOLS.
   - 2 PHASE, 60 HERTZ
   - THE CONTRACTOR SHALL PROVIDE AN ACCURATE ELEVATION SENSOR CONDUIT (BARE DOPV) ON THE CONCRETE PUMP BANE.
   - THIS WORK SHALL BE DONE BY A SURVEYOR LICENSED IN THE STATE OF HAWAII.
   - THE CONTRACTOR SHALL PROVIDE AN ENCLOSED PLATE, AS REQUIRED BY DLNR, SHOWING THE STATE'S WELL NO. (4243-15). THE CONTRACTOR SHALL ATTACH THE ENCLOSED PLATE TO THE WELL AS DIRECTED BY DOW.
   - THE CONTRACTOR SHALL PROVIDE A CABLE STORAGE REEL OF ADEQUATE CAPACITY FOR THE PRESSURE SENSOR CABLE.
   - 1/4" SCH. 80 PVC MONITORING TUBE/PRESSURE SENSOR CONDUIT.
   - 2 ROWS OF THE (2) 3/4" O.D. HOLES @ 167 INCH HOLE HOLES SHALL BE ARRANGED IN A STAGGERED FORMATION.

"AS-BUILT" SECTION THRU WELL

DEEPWELL PUMP GENERAL ARRANGEMENT

FIGURE 5
DEEPWELL PUMP PIPING ARRANGEMENT

MATERIAL LIST

ITEM | DESCRIPTION
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1 | DEEPWELL PUMP, LARDO 160, 6-STAGE (MODIFIED CURVE), 1200 GPM @ 242 FT. THP, 1770 RPM, WITH 100 HP MOTOR, 480 VOLS, 3 PHASE, 60 HZ, 1.15 S.F.
2 | 1/2" x 1/2" D.L. REDUCER, F.E.
3 | 1/2" D.L. FLANGE COUPLING ADAPTER WITH ANCHOR PINS AND TYPE 304 STAINLESS STEEL BOLTS & NUTS, NO. 501-1355, ON APPROVED EQUAL.
4 | 1/2" D.L. PIPE ADAPTER, F.E. x P.E., CUT TO FIT.
5 | 3/4" x 3/4" D.L. REDUCING TEE, F.E.
6 | 3/4" D.L. PIPE SPOKED, F.E., 18" LONG.
7 | 1/2" CLAY PATTERN CHECK VALVE, MODEL NO. 81-1355, F.E.
8 | 1/2" STAINLESS STEEL UH Form Pressure Tube Flowmeter, F.E., THROAT DIAMETER = 3/8" (BETA "A"), RP MODEL 210, WITH ELECTRONIC FLOW TRANSMITTER (SCADA-ADV).
9 | 1/2" D.L. PIPE SPOKED, F.E., 48" LONG.
10 | Y-FLUESTORD VANE-TYPE FLOW SWITCH, VALVE NO. 501.
11 | 1/2" BUTTERFLY VALVE, CLASS 150B, F.E., WITH OPERATOR HANDWHEEL AND VALVE POSITION INDICATOR.
12 | 3/4" x 3/4" D.L. REDUCING TEE, F.E.
13 | 3/4" D.L. PIPE SPOKED, F.E., 36" LONG
14 | 1" COMBINATION AIR VALVE ASSEMBLY. (SEE DETAIL ON SHEET M-6)

ITEM | DESCRIPTION
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15 | 1" x 1/2" D.L. REDUCER, F.E.
16 | 1" x 1/2" D.L. REDUCER, W.L. WITH MEGA LUG RETAINER CLAMPS.
17 | 1/2" x 1/2" D.L. TEE, F.E.
18 | 1/2" x 1/2" D.L. REDUCER, F.E.
19 | 1" WATER CENTER GUIDED CHECK VALVE.
20 | SCREEN & FITTING (SEE DETAIL ON SHEET M-6)
21 | 6" D.L. PIPE SPOKED, F.E., 18" LONG.
22 | 2" CLAY PATTERN CONTROL VALVE, MODEL NO. 81-1355, F.E., CLASS 125, WITH 3/4" LOW LIMIT SWITCH ASSEMBLY.
23 | 6" x 6" D.L. BEND, F.E.
24 | 6" x 6" D.L. PIPE ADAPTER, F.E. x P.E., CUT TO FIT.
25 | 1/2" x 1/2" D.L. BEND, W.L. WITH MEGA LUG RETAINER CLAMPS.
26 | 1/2" D.L. PIPE SPOKED, 24" LONG.
27 | 1/2" x 1/2" D.L. REDUCER, W.L. WITH MEGA LUG RETAINER CLAMPS.

NOTES
1. ALL FLANGES SHALL BE ANSI B16.1, CLASS 125 UNLESS OTHERWISE NOTED.
2. ALL PIPE SUPPORT ASSEMBLIES SHALL BE STAINLESS STEEL.
3. NUTS AND BOLTS SHALL BE STAINLESS STEEL.
4. PROVIDE FELT PAPER BETWEEN STAINLESS STEEL PIPE STRAP AND PIPE.
5. ALL CLAYTON VALVES SHALL BE EPOXY COATED INTERNALLY.

FIGURE 6