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| ① PUMP/MOTOR ASSEMBLY* | ⑫ 2"x2" S.S. TEE, SHUT OFF VALVE W/ LOCKABLE HANDLE, AND SMOOTH NOSE SAMPLE TAP | ⑳ 10" FLG. COUPLING ADAPTER (RESTRAINED) |
| ② 8" DIAM X 5' (MIN. IF NECESSARY) LENGTH SUCTION PIPE* | ⑬ PRESSURE GAUGE | ㉑ --- |
| ③ PUMP BOWL (TYP)* | ⑭ NEW VALVE VAULT ALUM. ACCESS LADDER W/SAFETY-UP POST | ㉒ ELEVATED PLATFORM** W/ALUM. HANDRAILS AND GRATING |
| ④ 10" DIAM PUMP COLUMN PIPE* | ⑮ PIPE SUPPORT | ㉓ 2" S.S. STEEL PIPE W/24#MESH S.S. SCREEN ON END; RUN LINE TO 6" ABOVE PLATFORM |
| ⑤ 10" DI PIPE | ⑯ 10" X 10" FLG. DI TEE | ㉔ 30" DIAM X 0.375" THICK STEEL CASING (CONCRETE FILLED) FROM 10' BELOW EXIST. GRADE TO BOTTOM OF PLATFORM |
| ⑥ 10" DI WALL PIPE, FLG. X PE | ⑰ 10" X 6" FLG. D.I. REDUCER & D.I. BLIND FLANGE | ㉕ 16" WELL CASING TO EXTEND TO BOTTOM OF PLATFORM; WELD TO EXISTING COLUMN PIPE |
| ⑦ CORE DRILL; LINK SEAL & GROUT BOTH SIDES FLUSH | ⑱ 2'-6" X 2'-6" ALUM. ACCESS HATCH W/SAFETY GRATE | ㉖ 2" GATE VALVE (TYP.) |
| ⑧ --- | ㉑ PRECAST CONCRETE STRUCTURE | ㉗ 2" X 10" O.D. D.I. REDUCING FLANGE |
| ⑨ 10" WELDED STEEL PIPE (SCHEDULE 40, ASTM A500 GRADE B TESTED TO 350 PSI.) | ㉒ STRUCTURAL STEEL MEMBER** (TYP) | ㉘ 2'-4" X 2'-4" S.S. HINGED ALUM. GRATED ACCESS HATCH W/ PADLOCK |
| ⑩ --- | ㉓ DRAIN-BACK DIAPHRAGM VALVE | ㉙ WELL PLATFORM ALUMINUM ACCESS LADDER (SEE DETAIL, THIS SHEET) |
| ⑪ 10" FLG. DI 90° BEND | | |


APPROXIMATE WELL ELEVATIONS (FT)			
ELEVATION	#1	#2	#3
A	584.13	586.86	586.78
B	566.83	569.68	535.35
C	522.30	541.33	517.75
D	492.30	511.33	501.75

NEW WELL NO. 3 - SECTION 1
SCALE: 1/2"=1'-0" M-01

***NOTE:**
 ADDITIVE ALTERNATE BID 1:
 REPLACE EXISTING PUMPS AND MOTORS FOR WELL #1 & WELL #2.
 INCLUDES PUMP, MOTOR, MOTOR SHAFT, COLUMN PIPING, PUMP
 BOWLES, SUCTION PIPE, AND CONNECTION TO EXISTING DISCHARGE
 PIPING. REFER TO SECTION 11210 SPECS FOR EQUIPMENT AND
 MATERIAL REQUIREMENTS.

****NOTE:**
WELL TOWER/PLATFORM DESIGN FOR NEW WELL NO.3 SHALL BE RESPONSIBILITY OF CONTRACTOR AND FABRICATED OF STRUCTURAL STEEL MEMBERS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF INDIANA. COORD. WITH MANF. FOR EQUIPMENT LOADS. REFER TO DIVISION 5 SPECS FOR MATERIAL REQUIREMENTS.

NOTE:
ALL ELEVATIONS ON THESE PLANS BASED ON NAVD 88 UNLESS OTHERWISE NOTED.

<p align="center">NEW WELL NO. 3 PLANS, SECTION AND DETAILS HOOSIER HILLS REGIONAL WATER DISTRICT CONTRACTS G-1 & G-5</p>				<p>CLIENT CONTRACT NO. G-1/G-5</p>		<p>GRW PROJECT NO. 3235-04</p>	
<p>DRAWING SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED</p>				<p>ALL RIGHTS RESERVED: THIS DOCUMENT IS THE PROPERTY OF GRW, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION OF GRW, INC.</p>			
 engineering architecture geospatial					This document, originally issued, sealed, and signed by Darren S. Wells, Indiana Professional Engineer, No. 10100200, on March 26, 2012, shall not be used in lieu of a certified document.	DESIGNED: DSW	DATE: FEBRUARY 2012
						DRAWN: JAJ	SCALE: AS SHOWN
	1	AS-BUILTS	2/14	JAJ		REVIEWED: DRC	SHEET NO.
	NO.	DESCRIPTION	DATE	BY		APPROVED: ALW	<div style="font-size: 48pt; font-weight: bold; text-align: center;">M-01</div>
	REVISIONS						