

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

See Attachments

Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for Irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
X 2	Grundfos	7.5	25575-3945	Sub	2"

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

Wells pump to 30,000 gal storage then
gravity to houses. 20 lots in all.

Have conditions of permit approval been met? ☒ yes ☐ no

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: Municipal use = 0.11 cfs for 245 days with Irrigation and Domestic period of use. The 245 days is derived from the irrigation season at this time for the year Irrigation and domestic will be using the 0.11 cfs. Diversion of .11 cfs X 1.9835 AF X 245 days = 53.4 AF. 245 days = 68% of the days per year. 32% of the remaining days of the year will be Domestic use for 21 homes. 21 homes X .6 AF = 12.6 AF. The Domestic volume of 12.6 X 32% = 4.1 AF. The volume of this water right will be 53.4 AF + 4.1 AF for the total of 57.5 AF per year.

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☐ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.110 CFS	57.50 AF
<u>Totals:</u>		0.110 CFS	57.50 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name _____ Date _____
 Reviewer Earl P. [Signature] Date 8-20-09

F. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

System Flow meter

25 gpm each well

$$25 \times 2 = \frac{50 \text{ gpm} \times 1.33681}{60} = 0.11 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

$$20 \text{ houses} \times 1.2 \text{ AFA} = 24 \text{ AFA.}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Municipal</i>	<i>01-01</i>	<i>12-31</i>	<i>0.11</i>	<i>24</i>
Totals:			<i>0.11</i>	<i>24</i>

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name *Wayne Baldwin* Date *8-16-09*

Reviewer *Eric J. Dan* Date *8-16-09*

SEAL







flow meter.JPG



pod (3).JPG



pump house (2).JPG



storage.JPG

Well Connections, Piping Modifications and Pump House Modifications for Iron/Manganese Removal

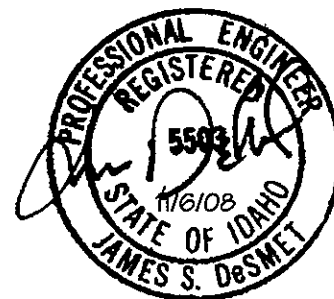
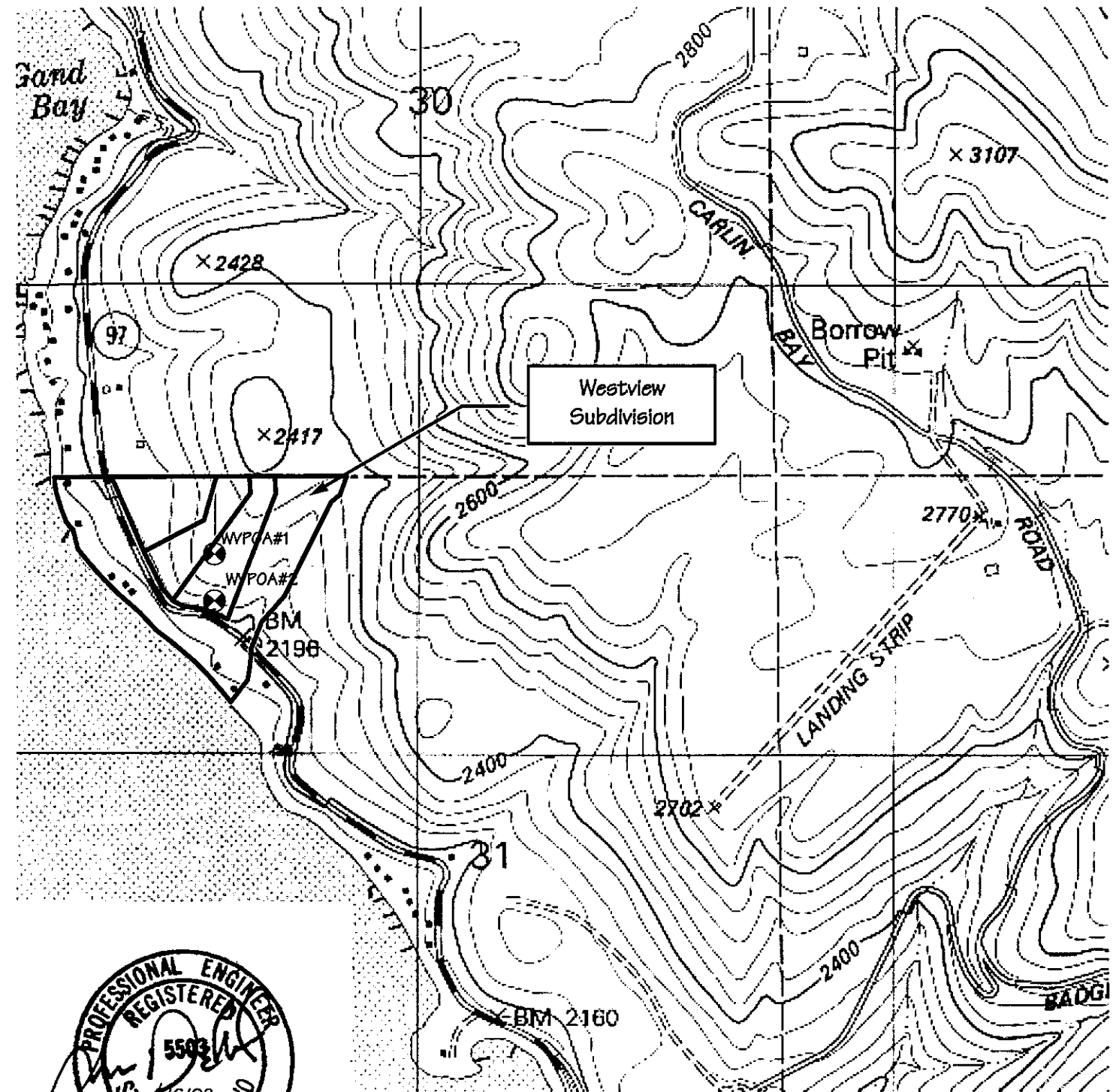
Westview Property Owners
Association
July 8, 2008

Revised Nov 10, 2008

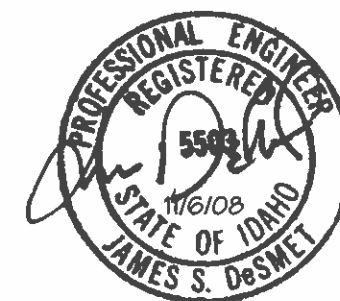
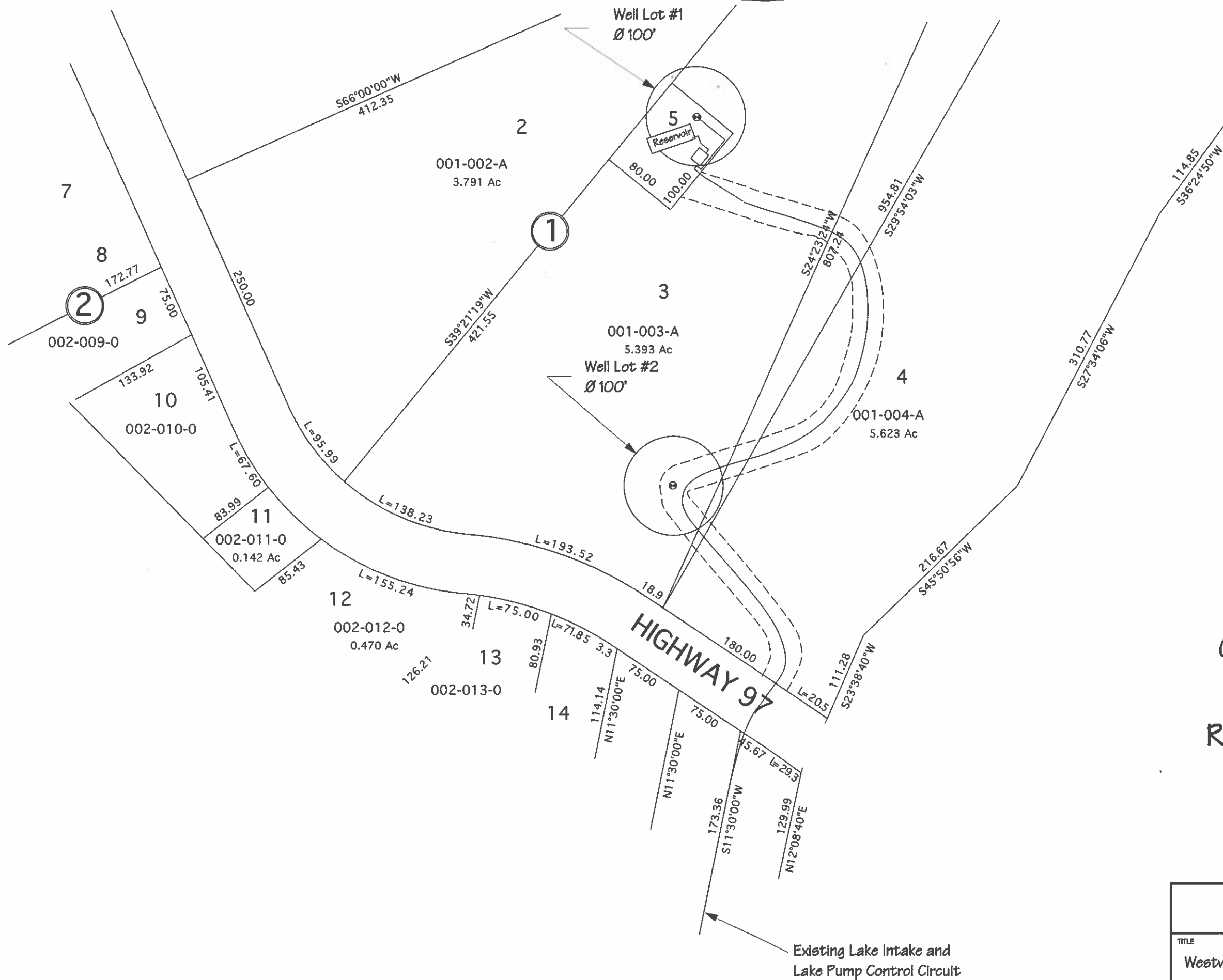
prepared by:
Quantum Engineering
South 2641 Silver Beach Loop
Coeur d'Alene, Idaho

Index of Sheets

Sheet 1	General Site Plan
Sheet 2	Filter Plant Modifications
Sheet 3	Well #1 Connection and Chlorine Contact Line
Sheet 4	Details
Sheet 5	Well Head Details



Record Drawing

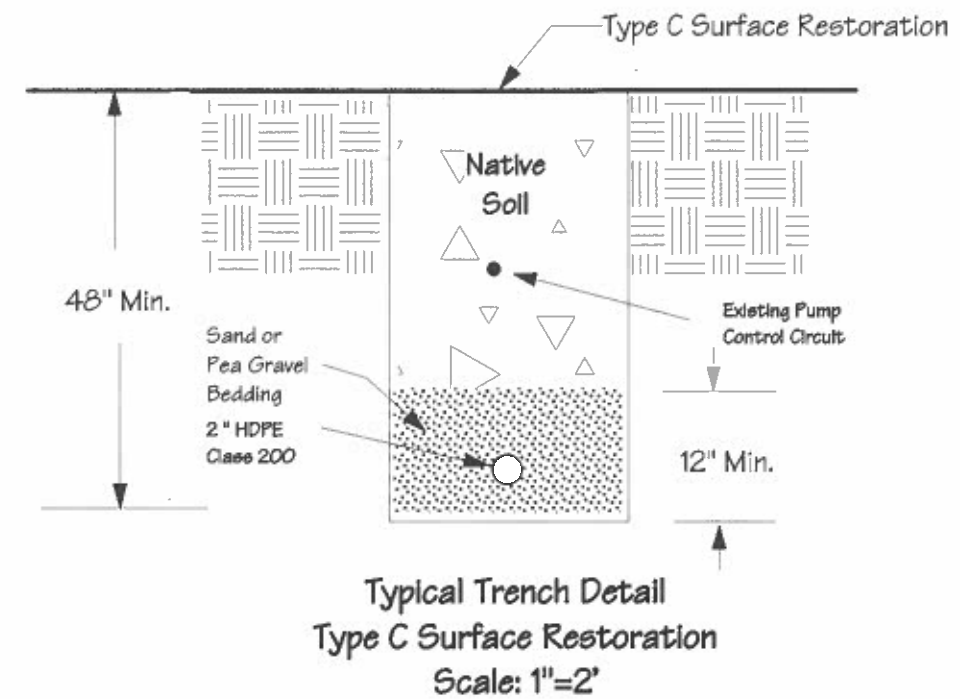
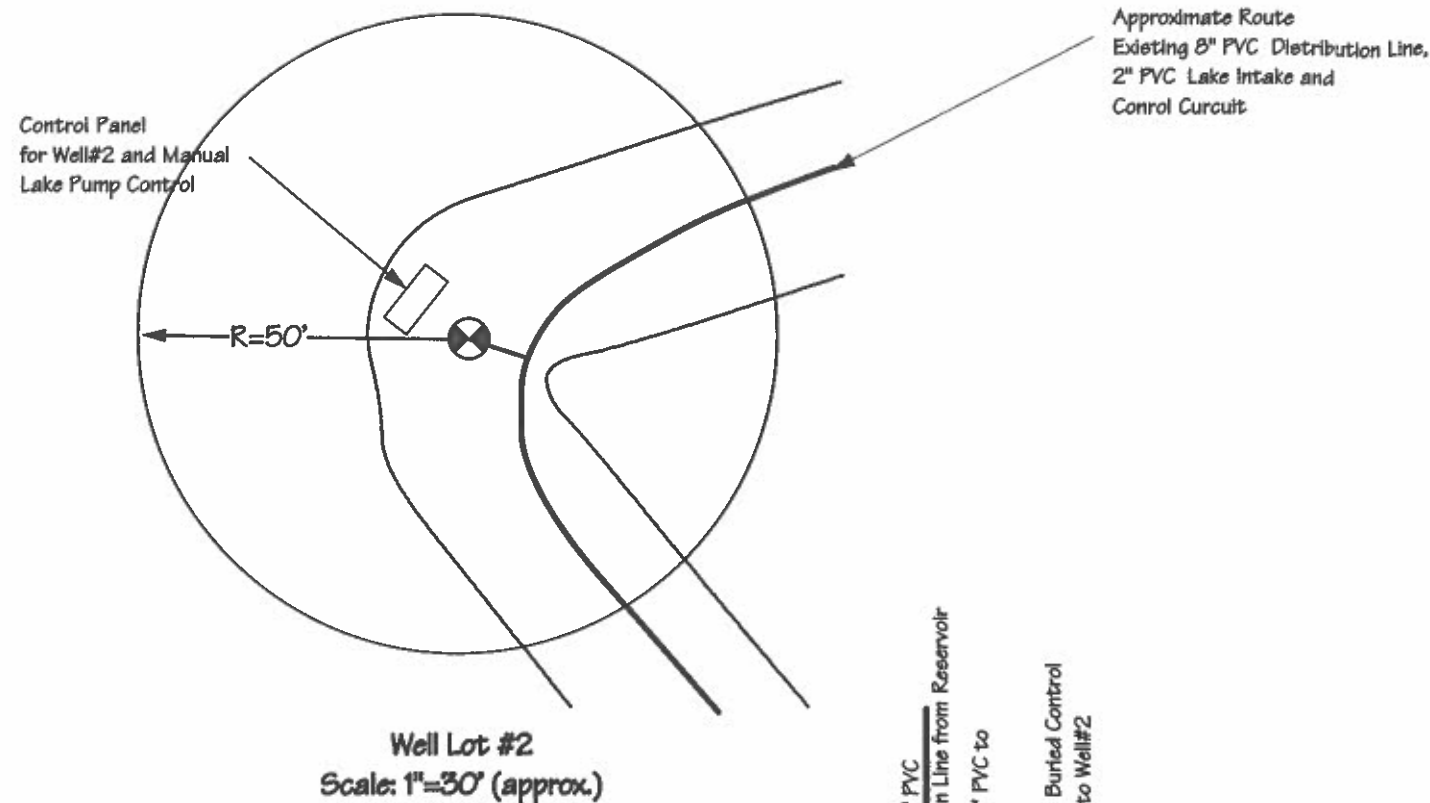


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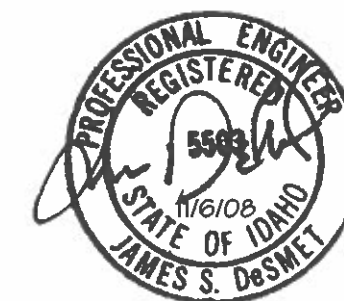
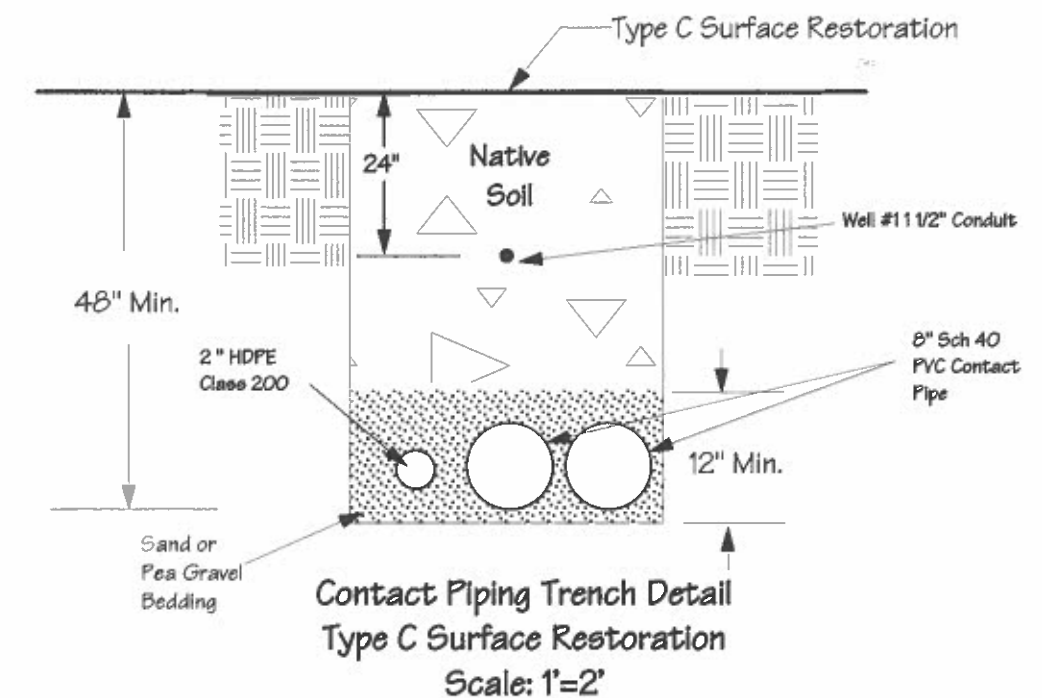
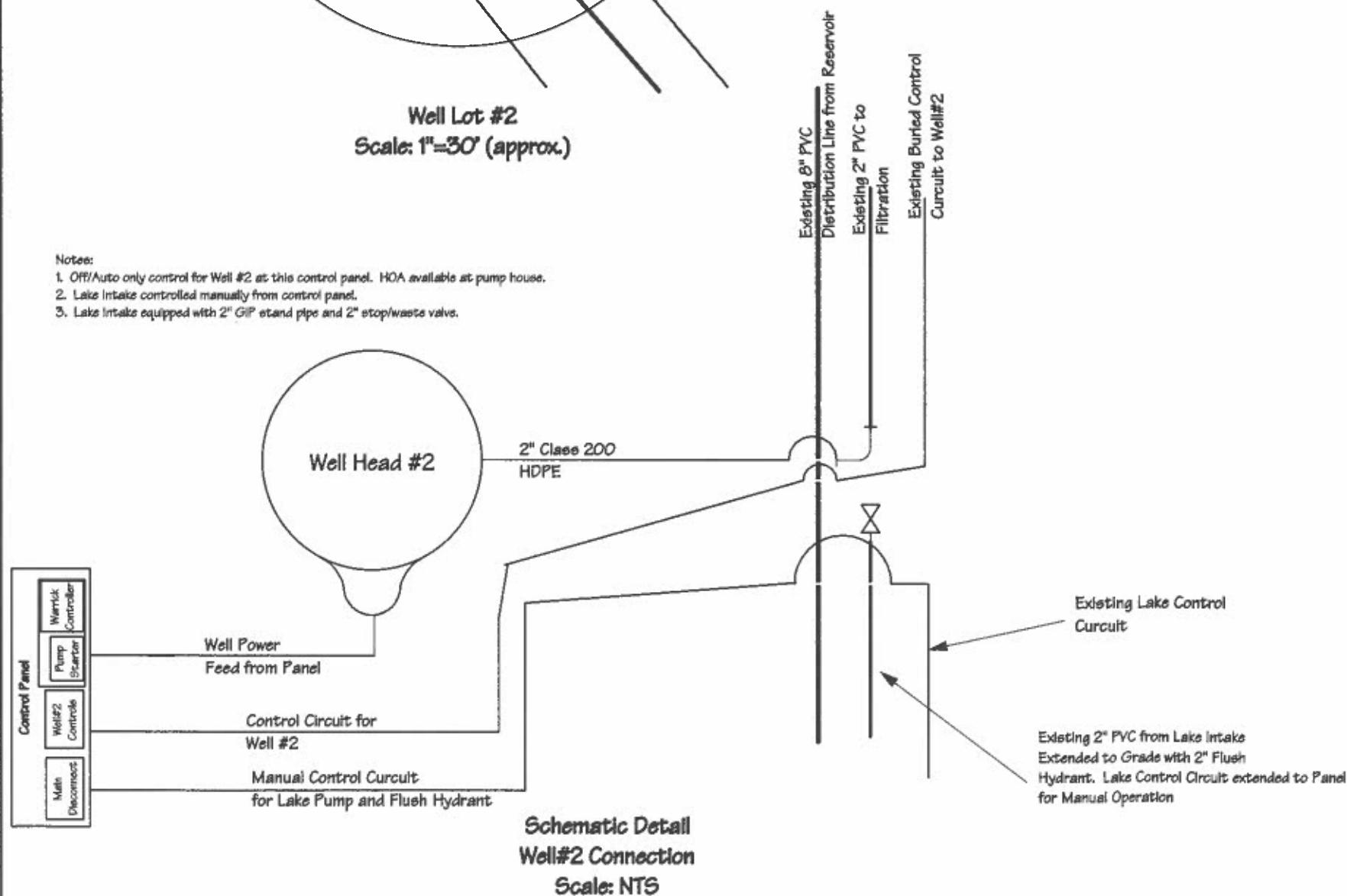


Call Before You Dig 800 428 4950

Quantum Engineering and Geologic Consulting		
TITLE	DESCRIPTION	DATE
Westview Property Owners Association	General Site Plan	7/8/08
SHEET	DRAWN BY	SCALE
1 of 5	JSD	1"=100'



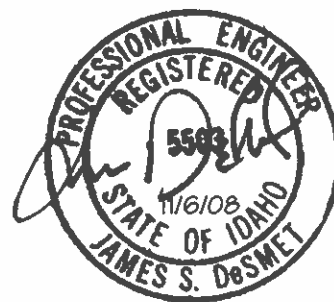
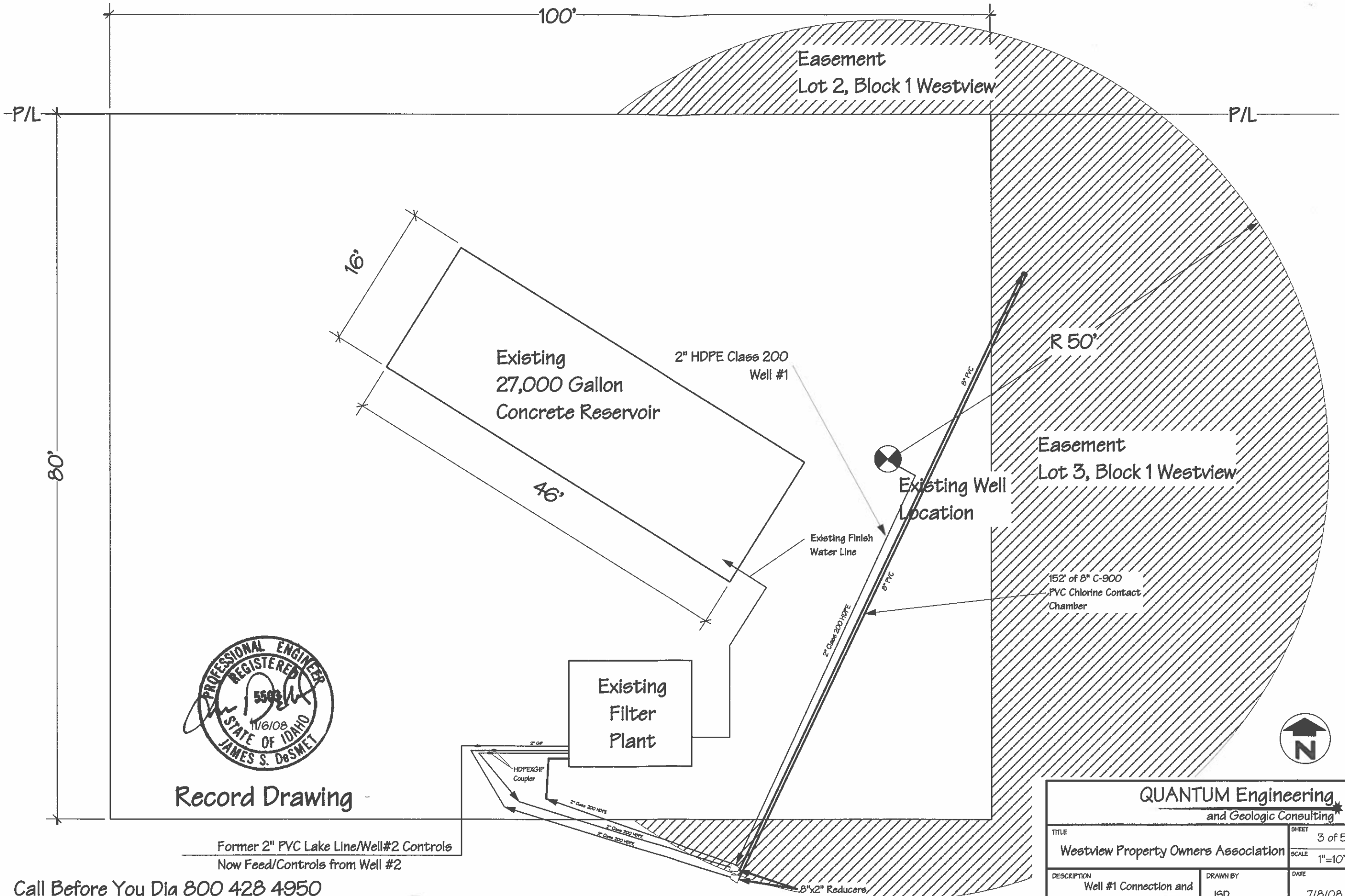
- Notes:
1. Off/Auto only control for Well #2 at this control panel. HOA available at pump house.
 2. Lake Intake controlled manually from control panel.
 3. Lake Intake equipped with 2" GIP stand pipe and 2" stop/waste valve.



Record Drawing

Call Before You Dig 800 428 4950

QUANTUM Engineering and Geologic Consulting		
TITLE	Westview Property Owners Association	SHEET 4 of 5
DESCRIPTION	Details	SCALE As Shown
DRAWN BY	JSD	DATE 7/8/08

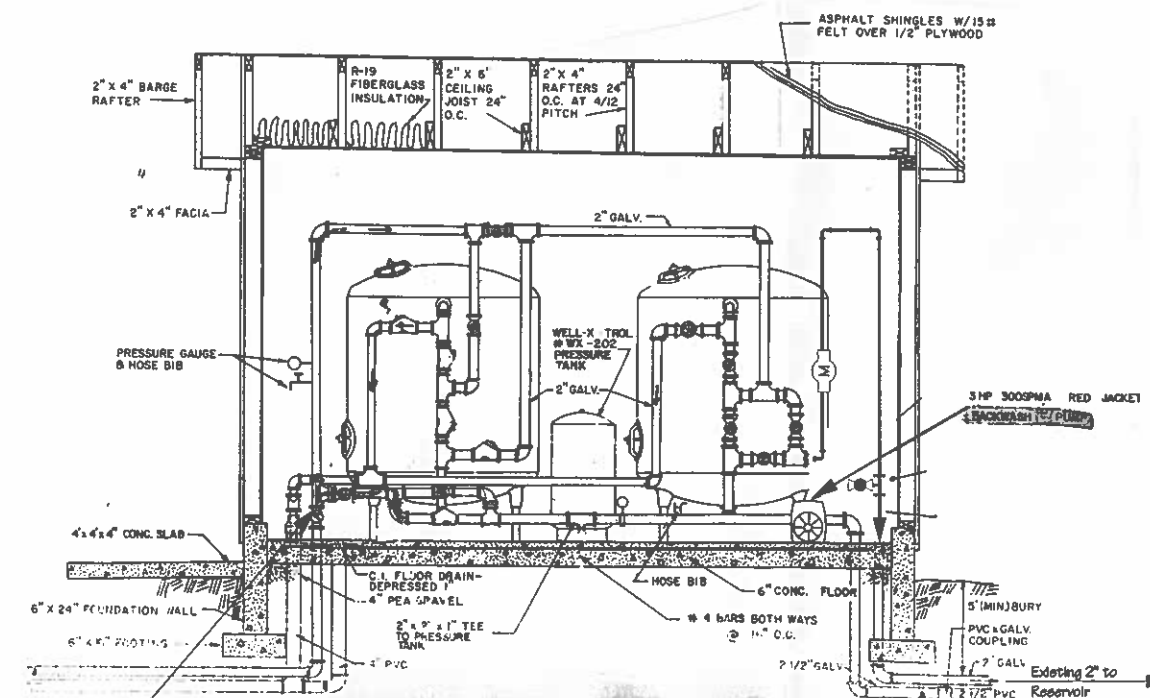
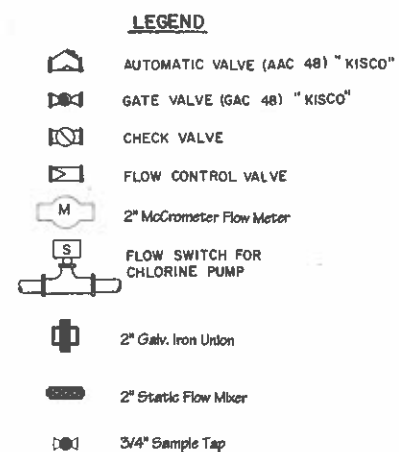
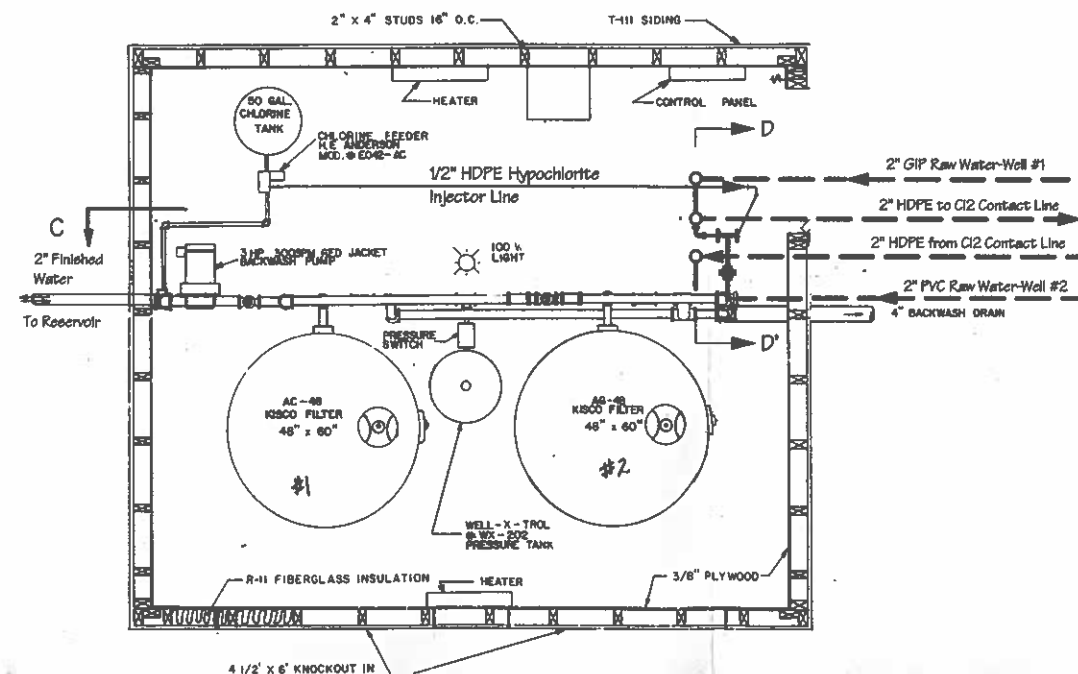


Record Drawing

Former 2" PVC Lake Line/Well#2 Controls
Now Feed/Controls from Well #2

Call Before You Dig 800 428 4950

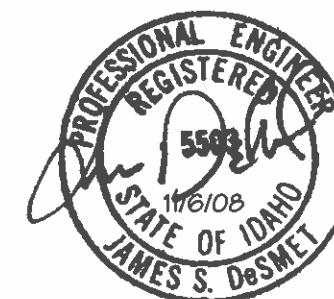
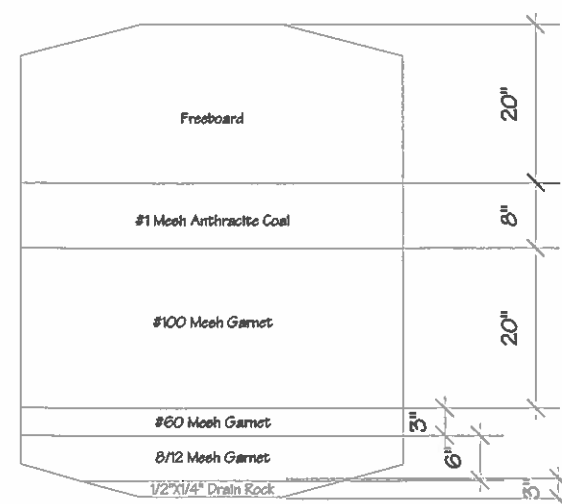
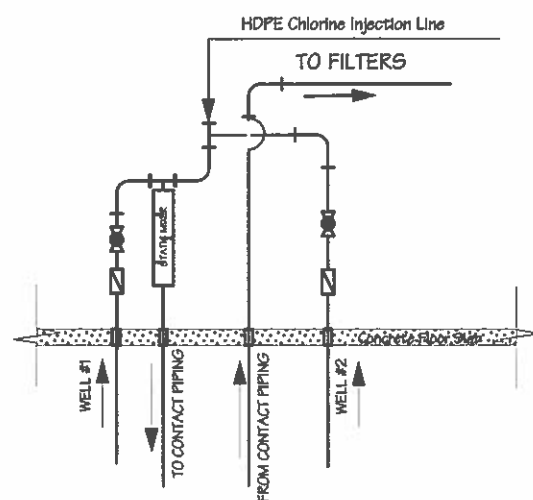
QUANTUM Engineering and Geologic Consulting		
TITLE	Westview Property Owners Association	SHEET 3 of 5
DESCRIPTION	Well #1 Connection and Chlorine Contact Chamber	SCALE 1"=10'
DRAWN BY	JSD	DATE 7/8/08



See Section D-D', this page for
schematic of this area

Notes:

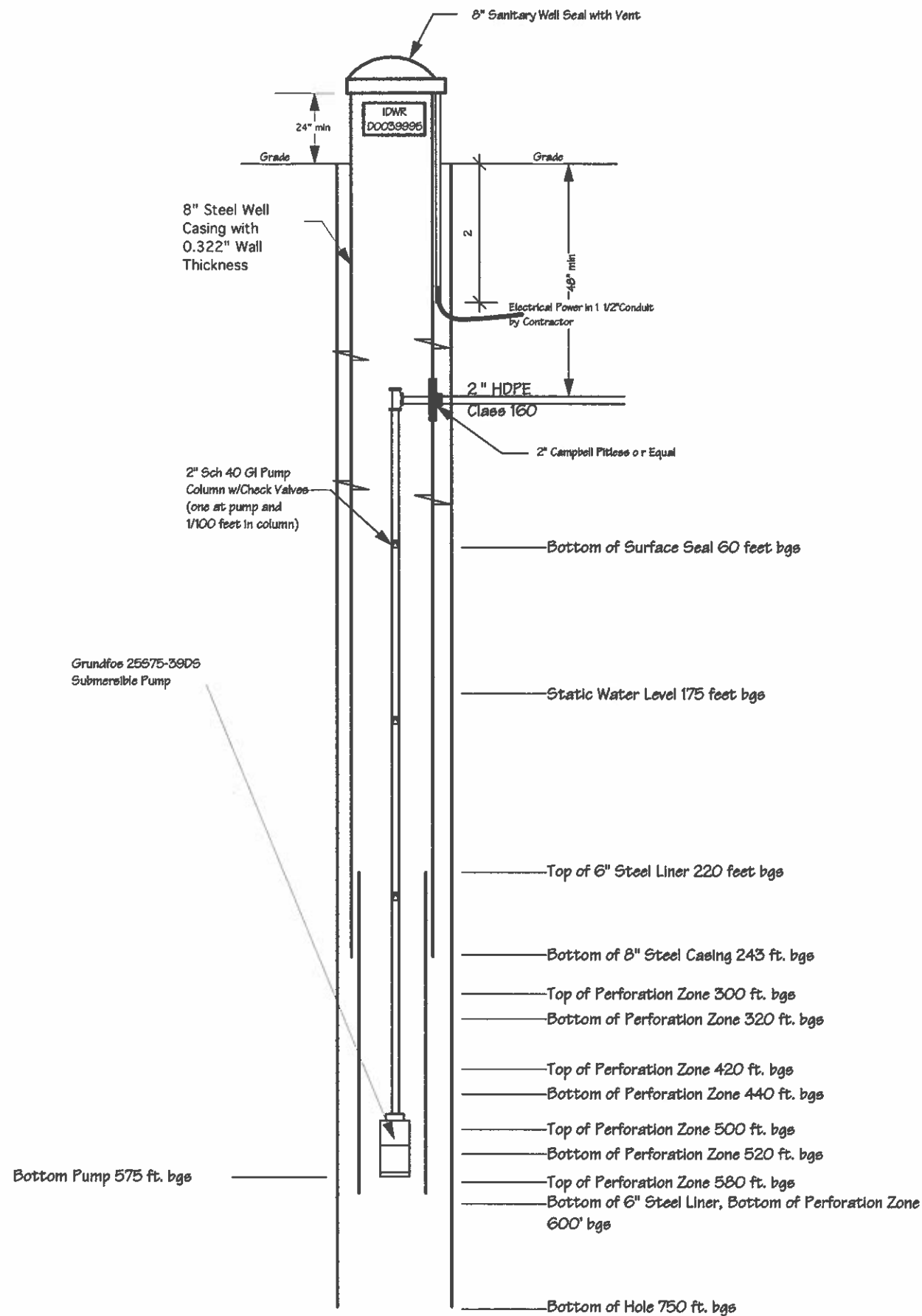
1. Existing filtration plant drawings based on Record Drawings, Smith and Smith, 10/28/01
2. Automatic backwash controllers removed and replaced with ball valves for manual operation.



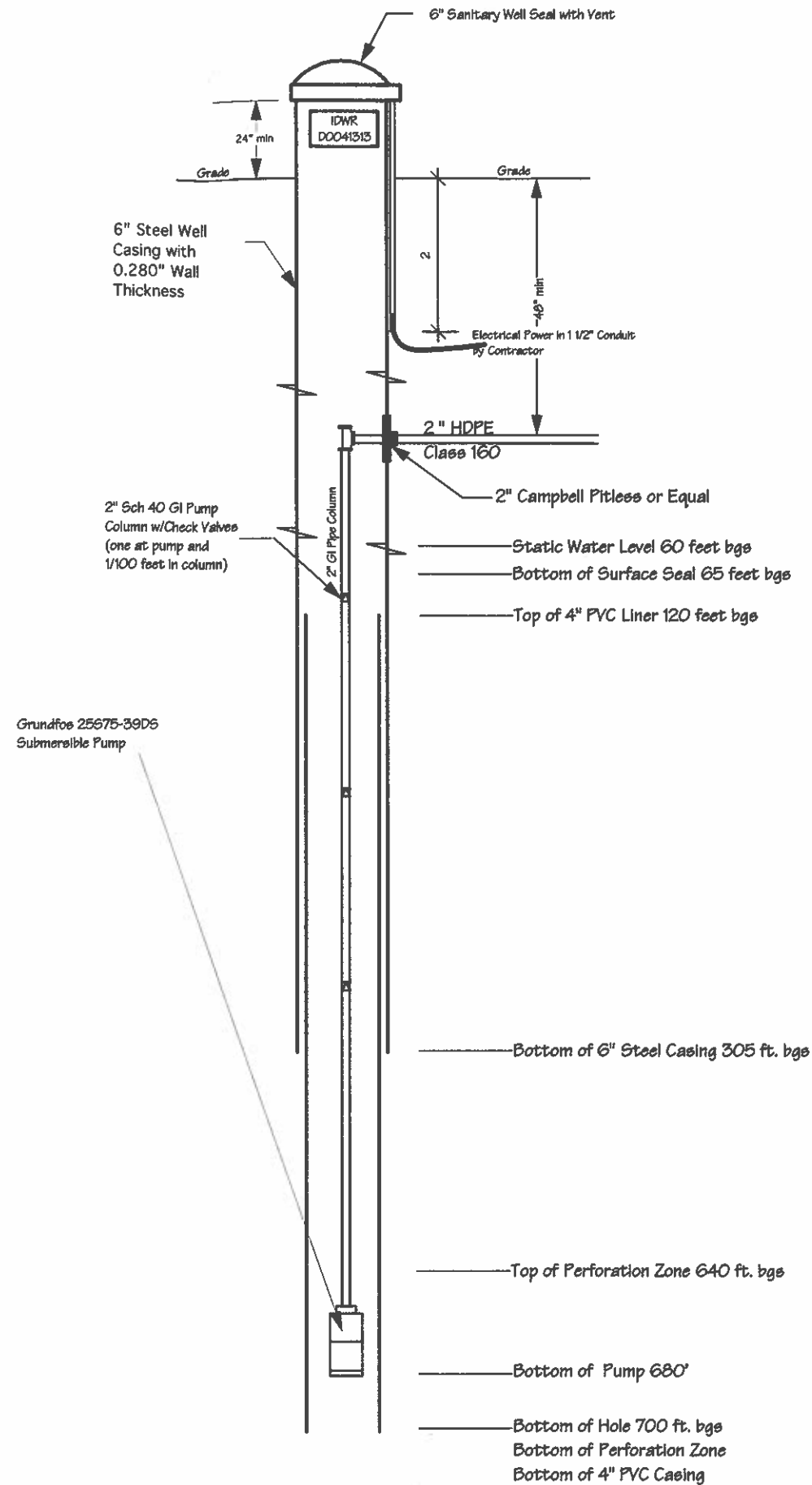
Record Drawing

Quantum Engineering
and Geologic Consulting*

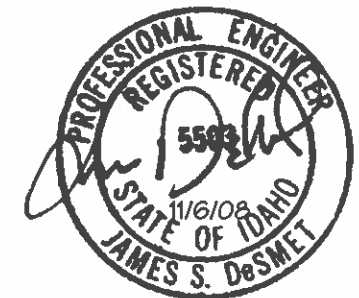
Quantum Engineering and Geologic Consulting		
TITLE Westview Property Owners Association		SHEET 2 of 5
DESCRIPTION Filter Modifications		SCALE 1"=4'
DRAWN BY JSD		DATE 7/8/08



Existing Well#1
Scale: None



Existing Well#2
Scale: None



Record Drawing

QUANTUM Engineering
and Geologic Consulting

TITLE		SHEET
Westview Property Owners Association		5 of 5
DESCRIPTION		SCALE
Well Head Details		No Scale
DRAWN BY		DATE
JSD		7/8/08