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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

DEPT OF WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 21-132091. Owner YRROW ON LLC C/O AMBER BOYCEPhone No. 208-360-5200Current address 4125 SAWTELLE PEAK ROAD, ISLAND PARK, IDAHO, 834292. Examiner's name PAUL SCORESBYEXAM DATE JULY 30, 20183. Accompanied by LANCE BOYCEEmail LANCE@MONOSLABEZFORM.COMAddress P.O. BOX 371 ISLAND PARK, IDAHO 83429Relationship to permit holder OWNERPhone No. 208-360-52004. Source GROUNDWATER

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use NONE2. Other water rights with the same source and point of diversion NONE**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
			NE	SW	24	14N	43E	FREMONT	IDWR GIS MAPS, IN-PERSON OBSER.

2. Place(s) of Use:

Method of determination _____

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14N	43E	24									X	X							

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AUG 30 2018

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

SEE ATTACHED RECORD DRAWINGS
SHOWING THE SITE PLAN, WELL, AND
DIVERSION PIPING WORKS.

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
0073943	FRANKLIN	5	UNKNOWN	FRANKLIN	17G191102873P

*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
FLOW METER	EM	BADGER	1706-270	10161300	2"	9-20-17

2. **Measurements:** _____

EM = Electromagnetic

The flow meter was visually read during the field examination.

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E. NARRATIVE/REMARKS/COMMENTS

This well will serve the domestic needs of 10 separate rental cabins and accompanying auxiliary buildings that include an office/shop, a garage, and a hot tub, which totals 13 separate buildings. The office/shop has a sink and toilet installed. The garage has a sink and toilet installed. The hot tub has a volume of 380 gallons and the hot tub is filled and water changed around 3 times a year. We assumed 6 water changes per year for our calculations. The hot tub has no sewer connection and is filled via a water hose.

This report requests licensing for 0.17 cfs instead of .18 cfs since a total of 13 units were developed instead of 15 units.

The type of system is a submersible pump/meter controlled by a VFD and two bladder-style pressure tanks. Refer to photos and record drawings attached at the end of this document.

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Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

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F. FLOW CALCULATIONS☐ Additional computation sheets attached**Measured Method:**

The flow was measured by a calibrated electromagnetic flow meter with a 96 gpm (.21 cfs) at a pressure of 54 psi on July 30, 2018.

G. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \text{N/A}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = \text{N/A}$$

2. Volume Calculations for Other Uses:

10 Rental Cabins (assume 0.6 acre-feet/year) = 6.0 acre-feet/year

1 Garage (assume 0.2 acre-feet/year) = 0.2 acre-feet/year

1 Office/Shop (assume 0.2 acre-feet/year) = 0.2 acre-feet/year

1 Hot Tub (assume 0.01 acre-feet/year) = 0.01 acre-feet/year

Total = 6.41 acre-feet/year

H. RECOMMENDATIONS**1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
COMMERCIAL	1/01	12/31	0.17	6.41
Totals:				

2. Recommended Amendments

☐ Change P.D. as reflected on page 1

☐ Add P.D. as reflected on page 1

☒ None

☐ Change P.U. as reflected on page 1

☐ Add P.U. as reflected on page 1

☐ Other

I. AUTHENTICATION

Field Examiner's Signature

Paul H. Scoresby

Date

8-20-18

8842



Reviewer

Date

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AUG 30 2018



Permit # 21-13209

2017 Aerial Photography



Place of Use



Township and Range



Well



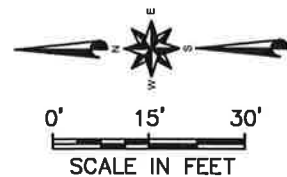
New Well



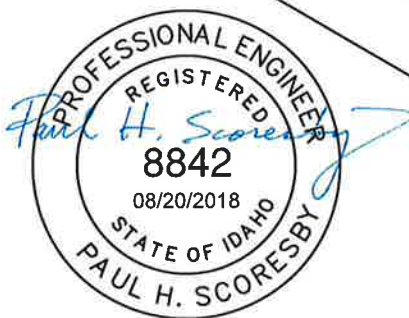
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SUPERCEDED



RECORD DRAWING

REVISIONS			
NO.	REVISIONS	BY	DATE

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DESIGNED:	PHS
HORZ. SCALE:	1"=30'
VERT. SCALE:	N/A



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Idaho Falls, ID Phone 208.522.1244

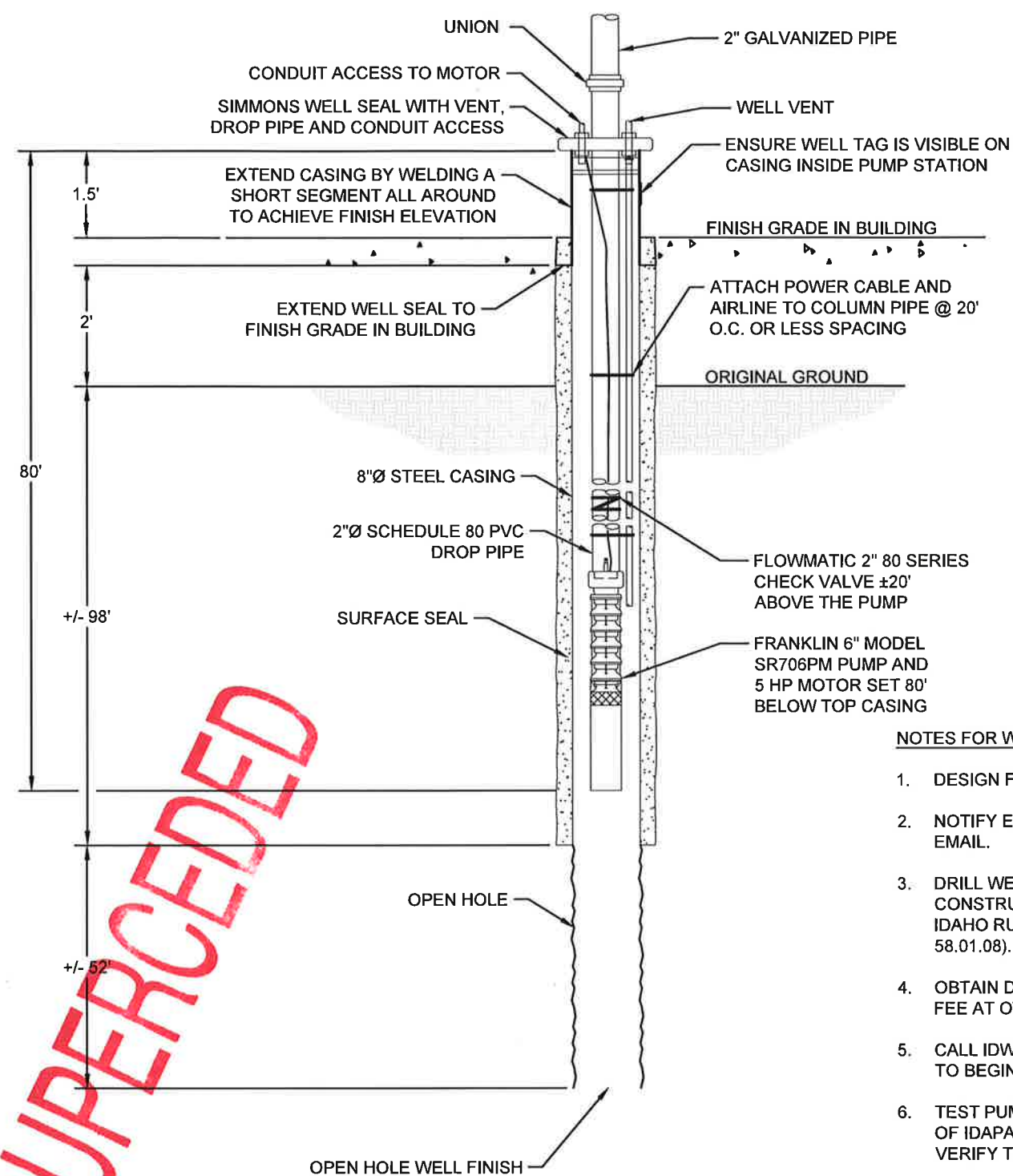
YELLOWSTONE PRESERVE

TRANSIENT WELL/WATER SYSTEM AND SEWER COLLECTION SYSTEM
ENGINEERING

PROPERTY SITE PLAN

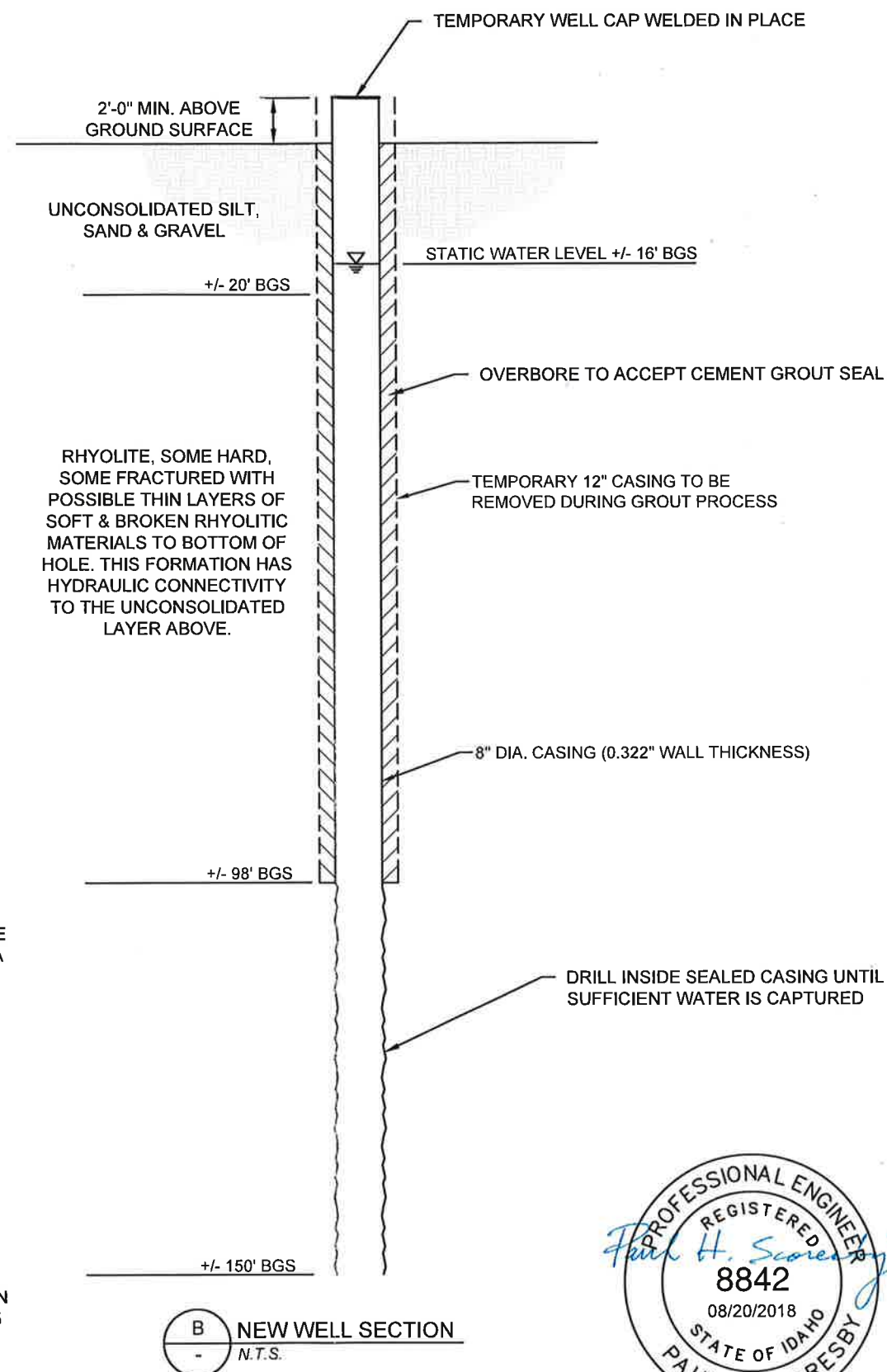
PROJECT NO.	16031
SHEET NO.	C-2
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NOTES FOR WELL DRILLING:

1. DESIGN FLOW OF WELL = 81 GPM.
2. NOTIFY ENGINEER DAILY OF WELL DRILLING PROGRESS BY EMAIL.
3. DRILL WELL IN ACCORDANCE WITH THE IDAHO WELL CONSTRUCTION STANDARDS RULES (IDAPA 37.03.09) AND THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08).
4. OBTAIN DRILLING PERMIT ON BEHALF OF OWNER AND PAY FEE AT OWNER REQUEST.
5. CALL IDWR (877) 287-6702 A MINIMUM OF FOUR HOURS PRIOR TO BEGINNING SEAL PLACEMENT.
6. TEST PUMP WELL IN ACCORDANCE WITH SUBSECTION 510.06 OF IDAPA 58.01.08 (6 HRS AT 122 GPM OR 24 HRS AT 81 GPM). VERIFY THAT SAND PRODUCTION IS LESS THAN 5 PPM.
7. DISINFECT WELL PER THE WELL CONSTRUCTION RULES AND AWWA C 654.
8. SUBMIT REQUIRED WELL COMPLETION REPORT INFORMATION TO IDWR AND ENGINEER AS OUTLINED IN SUBSECTION 510.05 OF IDAPA 58.01.08.
9. AFFIX STAINLESS STEEL WELL TAG TO CASING ONCE DRILLING IS COMPLETE.



RECORD DRAWING

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						JR
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YELLOWSTONE PRESERVE

**TRANSIENT WELL/WATER SYSTEM AND SEWER COLLECTION SYSTEM
ENGINEERING**

PUMP & WELL DETAILS

COLLECTION SYSTEM
SCANNED
TAILS
AUG 30 201

PROJECT NO.	
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16031

SHEET NO.

D-1

SIZE

E



MAIN PIPE

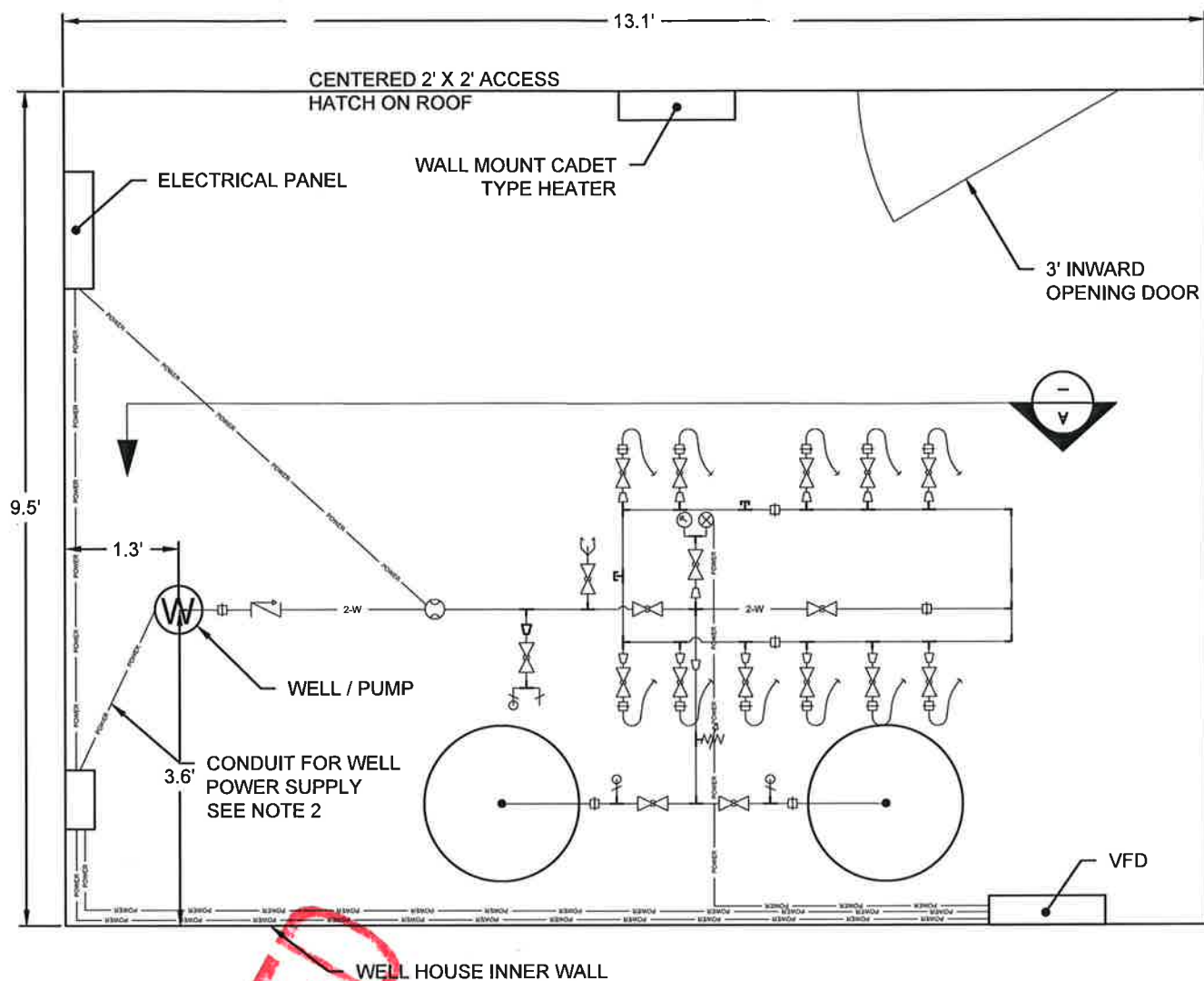


WATER SERVICE TO EACH UNIT
TYPICAL 11 PLACES



WATER SYSTEM PRESSURE TANKS

WELL



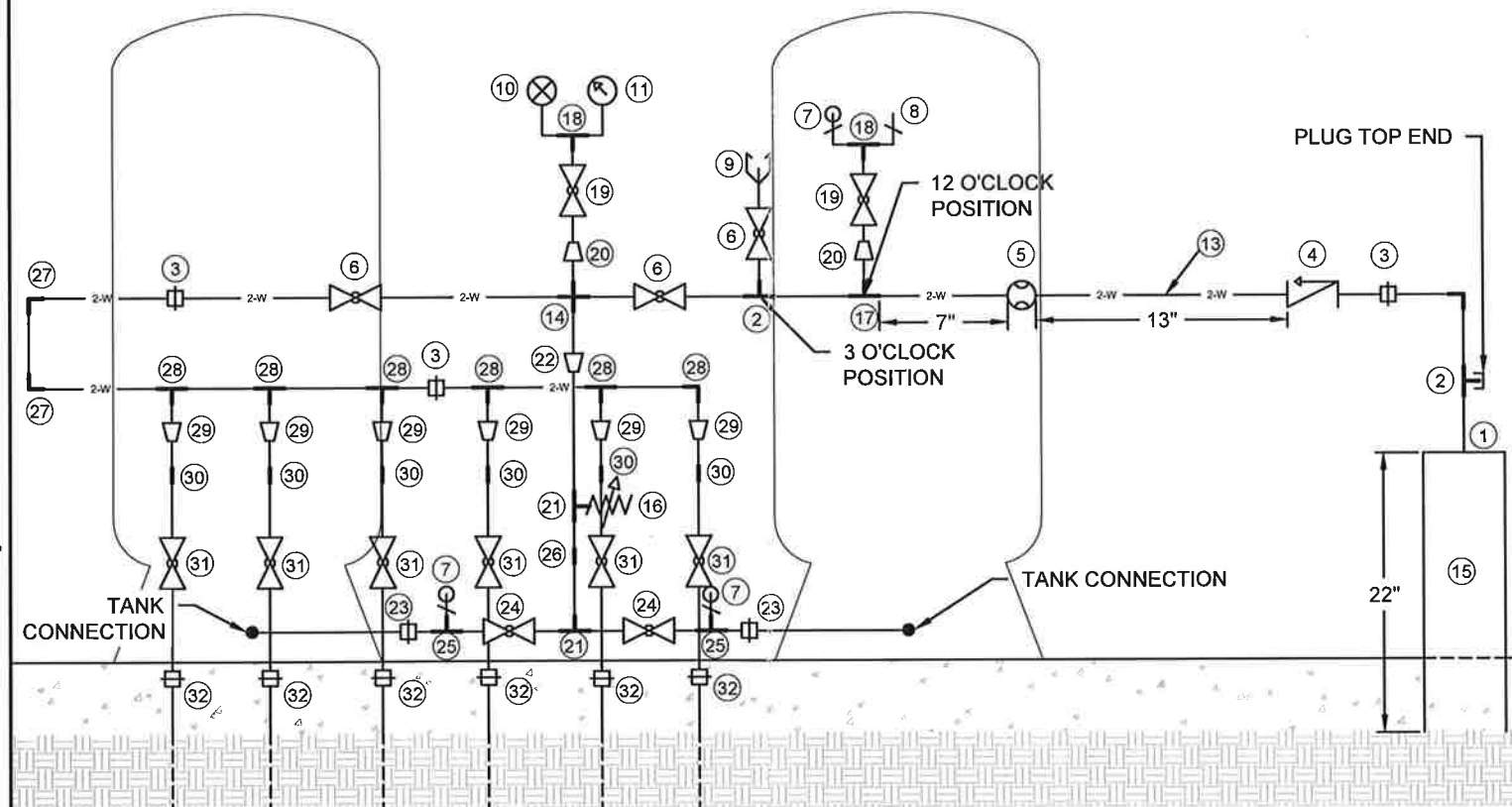
NOTES:

- COMPONENTS ARE SHOWN IN SCHEMATIC FORM ONLY AND NOT ALL ARE SHOWN WITH CORRECT ORIENTATION. SPECIFIC ORIENTATIONS FOR SELECT COMPONENTS ARE SPECIFIED IN THE EQUIPMENT SCHEDULE.
- ENSURE ADEQUATE HEATING, LIGHTING AND VENTILATION OF PUMP HOUSE PER LOCAL & STATE RULES. ELECTRICAL, STRUCTURAL, HEATING AND VENTILATION WORKS ARE TO BE DESIGNED BY OTHERS. AVOID THE USE OF BASEBOARD HEATING UNIT. USE WALL MOUNT CADET TYPE HEATING UNIT INSTEAD.
- ENSURE DURABLE CONSTRUCTION OF STRUCTURE USING FIRE & WEATHER RESISTANT MATERIALS.
- SLOPE FLOOR AT 2.5% TOWARDS DRAIN.
- FIELD DETERMINE FINISHED FLOOR ELEVATION OF THE PUMP STATION, SET FLOOR ELEVATION SO THERE IS POSITIVE DRAINAGE AWAY FROM BUILDING AND FINISH FLOOR IS 6" ABOVE OUTSIDE GRADE AROUND THE BUILDING.
- HOLD ALL PIPING FREE OF EQUIPMENT OTHER THAN THAT SHOWN.
- USE GALVANIZED STEEL AND COMPATIBLE FITTINGS/COMPONENTS FOR ALL MAIN PIPING IN THE BUILDING.
- ALL EQUIPMENT MARKED WITH " * " HAS MANUFACTURER'S SUBMITTAL DATA PROVIDED AT END OF DRAWINGS.



EQUIPMENT SCHEDULE

- | | | | |
|---|--|------------------------------|---------------------|
| ① *SIMMONS WELL SEAL WITH VENT. SEE ALSO SHEET D-1. | ⑨ 2" CAM LOCK PROVIDE 30 FT OF 2" SOFT HOSE WITH OPPOSING GENDER FITTING | ⑪ 2"x2"x3/4" TEE | ⑲ 2"x1" REDUCER |
| ② 2" TEE | ⑩ 420mA PRESSURE SENSOR 0 TO 100 PSI (PROVIDE WITH VFD) | ⑫ 3/4" TEE | ⑳ 2"x1" 90° ELBOW |
| ③ 2" UNION | ⑪ PRESSURE GAUGE | ⑬ 3/4" BALL VALVE | ㉑ 1" BALL VALVE |
| ④ *NIBCO BRONZE RING CHECK VALVE OR APPROVED EQUIVALENT | ⑫ *FLEXCON PL-65 BLADDER TYPE PRESSURE TANK | ⑭ 2"x3/4" REDUCER | ㉒ 1" UNION |
| ⑤ *110V 2" BADGER FLANGED ELECTROMAGNETIC FLOW METER | ⑬ 2" GALVANIZED STEEL PIPE | ⑮ 1 1/2" TEE | ㉓ 2"x1 1/2" REDUCER |
| ⑥ 2" BALL VALVE | ⑭ 2" CROSS | ⑯ 2"x1 1/2" UNION | ㉔ 1 1/2" BALL VALVE |
| ⑦ 3/4" HOSE BIB WITH WATTS MODEL 8 VACUUM PREVENTOR. | ⑮ WELL CASING | ⑰ 1 1/4" x 1 1/4" x 3/4" TEE | ㉕ 1 1/4" 90° ELBOW |
| ⑧ 3/4" SAMPLE TAP, NO THREADS | ⑯ *1" AY MCDONALD PRESSURE RELIEF VALVE | ⑱ 1 1/4" 90° ELBOW | ㉖ 2" 90° ELBOW |



A PIPE SECTION
- N.T.S.

RECORD DRAWING

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YELLOWSTONE PRESERVE

TRANSIENT WELL/WATER SYSTEM AND SEWER COLLECTION SYSTEM
ENGINEERING

WELL HOUSE PLAN & SECTION VIEW

PROJECT NO. 16031

SHEET NO. C-3

SIZE B