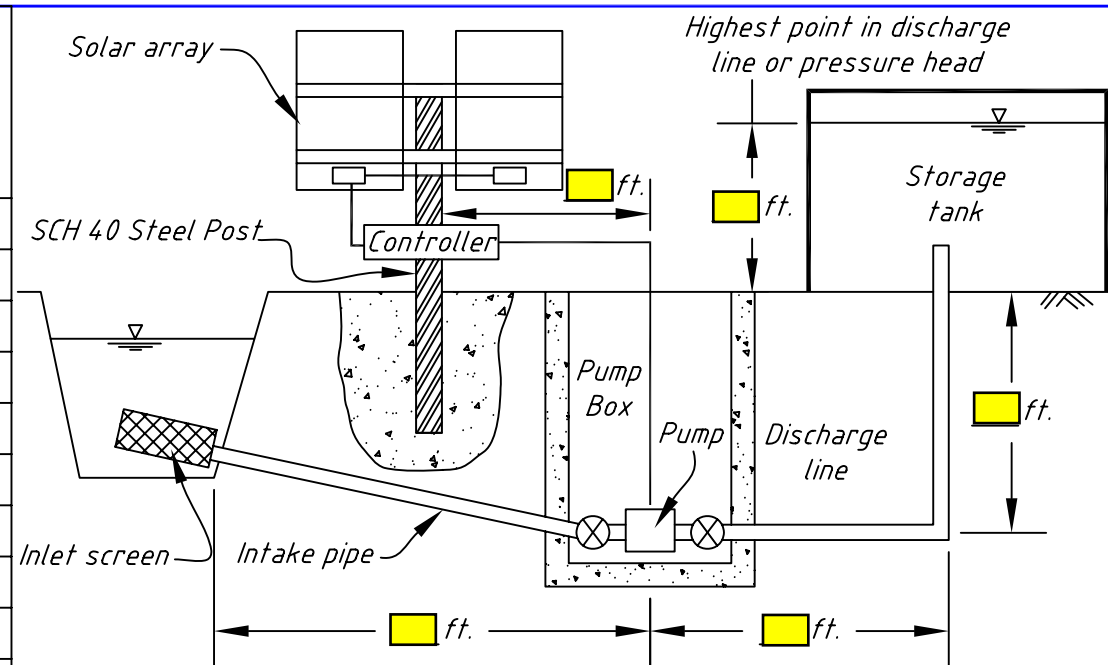


**TYPICAL WELL INSTALLATION**

Solar Panel Module Area (sq. ft.)	Hole Dia. (in.)	Post Embed Depth (in.)	Concrete Volume (cu.ft.)
10	12	30	2
15	15	40	4
30	18	45	7
40	18	54	8
50	18	56	10
60	24	46	12
70	24	54	14
80	24	60	16
90	24	68	18
100	24	76	20

Note: Pole height above ground shall not exceed 6 feet.



**TYPICAL SURFACE INSTALLATION**

Note: If the actual layout varies significantly from the details shown, provide accurate details on a new drawing.

**Water Quality at Source**

- Very Good: Water contains no abrasive particles, and/or TDS < 50 ppm.
- Good: Water may contain small amounts of silt, and/or TDS < 100 ppm.
- Fair: Water may contain small amounts of silt, sand, or rust, and/or TDS < 200 ppm.
- Poor: Water may contain moderate amounts of silt, sand, or rust, and/or TDS = 200-800 ppm.
- Very Poor: Water regularly contains silt, sand, or rust, and/or TDS > 800 ppm.

Comments:

**Water Storage Data**

Volume Required = Maximum Daily Requirement  (gal/day) x  days =  gallons.

Volume Available (gallons):	Open Tank	Pres. Tank	In Line	Other	Total
New or Existing:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Water Pumping Data**

- Static Water Depth:  ft. (Distance from ground to water surface when not pumping).
- Drawdown Level:  ft., at  GPM. (Depth water drops when pumping).
- Discharge Head:  ft. (Dist. from ground surface to highest water surface in discharge line)  
(Use either Discharge Level or Pressure Head, but not both)
- Pressure Head:  ft. (Tank pressure in psi. x 2.31)
- Losses:  ft. (Minor and friction losses in discharge line)
- Total Dynamic Head:  ft. (Sum of values above).

Water Source Information						
Subsurface			Surface			
Well	Spring		Stream	Canal	Pond	
Depth (ft.)	<input type="text"/>	Yield (gpm)	<input type="text"/>	Flow Rate	<input type="text"/>	<input type="text"/>
Max. Yield (gpm)	<input type="text"/>	Collection Box Data		Seasonal or Perennial	<input type="text"/>	<input type="text"/>
Casing I.D. (in.)	<input type="text"/>	Depth (ft.)	<input type="text"/>	Depth	<input type="text"/>	<input type="text"/>
Well Test (Y or N)	<input type="text"/>	Volume (gal.)	<input type="text"/>			
Date of Test	<input type="text"/>	Covered (Y or N)	<input type="text"/>			

Water Use Information					
Type of Use	Seasonal Water Requirement (Gal./Day)				Comments (# or type of animals, type of irrigation, etc.)
	Summer	Fall	Winter	Spring	
Livestock	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wildlife	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Irrigation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Domestic/Potable	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total Requirement	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Date:

Designed:  Drawn:  Checked:  Approved:

Cooperator:

Solar Panel Well and Surface Installation

County Conservation District:  County, Wyoming:

USDA NRCS Natural Resources Conservation Service

File No.:

Drawing No.: 533-01

Sheet  of