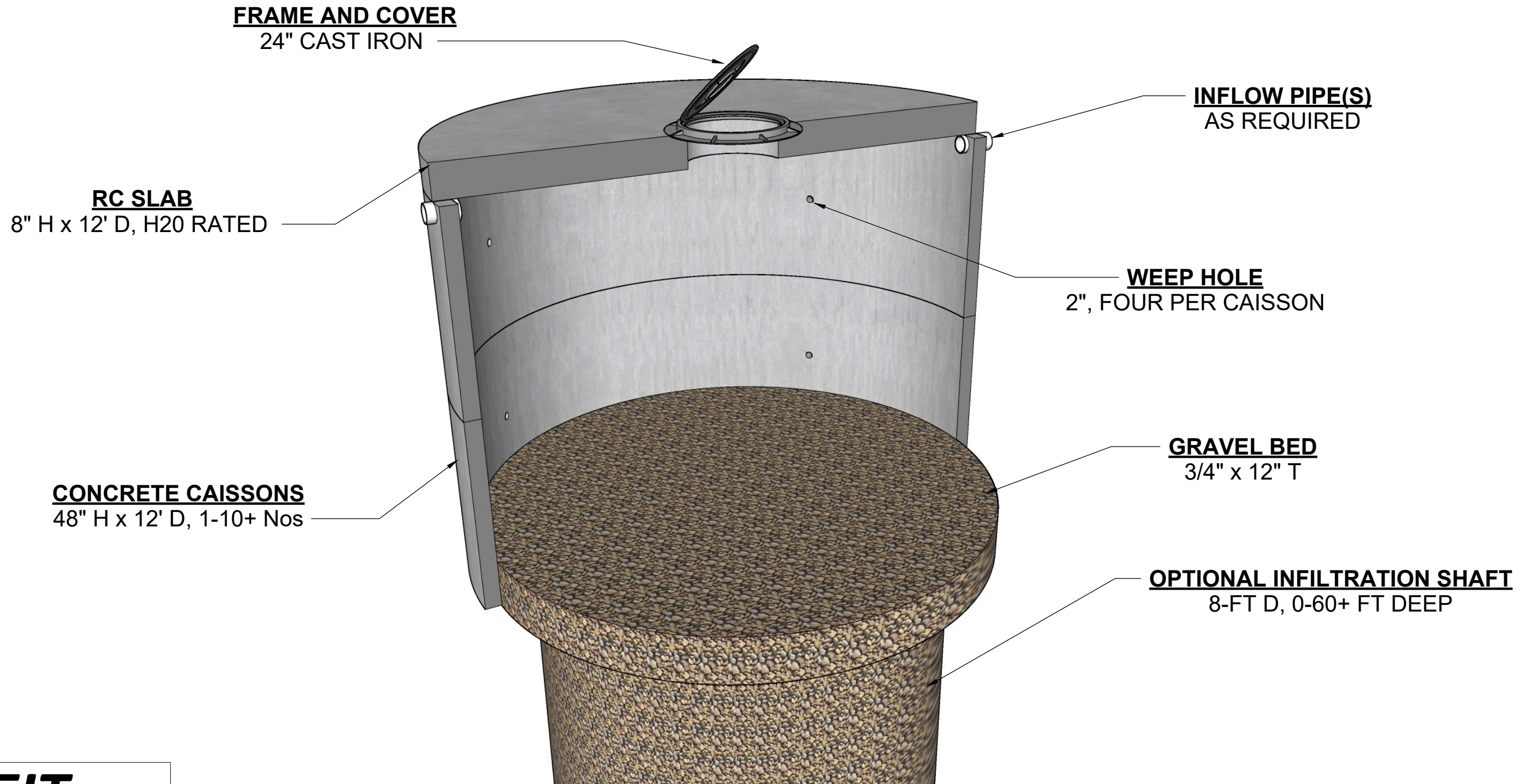


# DETENTION DRYWELL

STORAGE: 2500-25,000+ GAL  
FOOTPRINT: 12' DIAM., 110 SF



**SEITec**  
**WaterSilo**

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TORRANCE, CA 90505  
www.WaterSilo.us

### CONTACT INFORMATION

WATERSILO SUPPLIER: SEITEC  
CONTACT NAME: SHAHRIAR EFTEKHARZADEH  
CELL PHONE: 310-879-9376  
SALES EMAIL: INFO@SEITECINC.COM

### CONFIGURATION

1.0

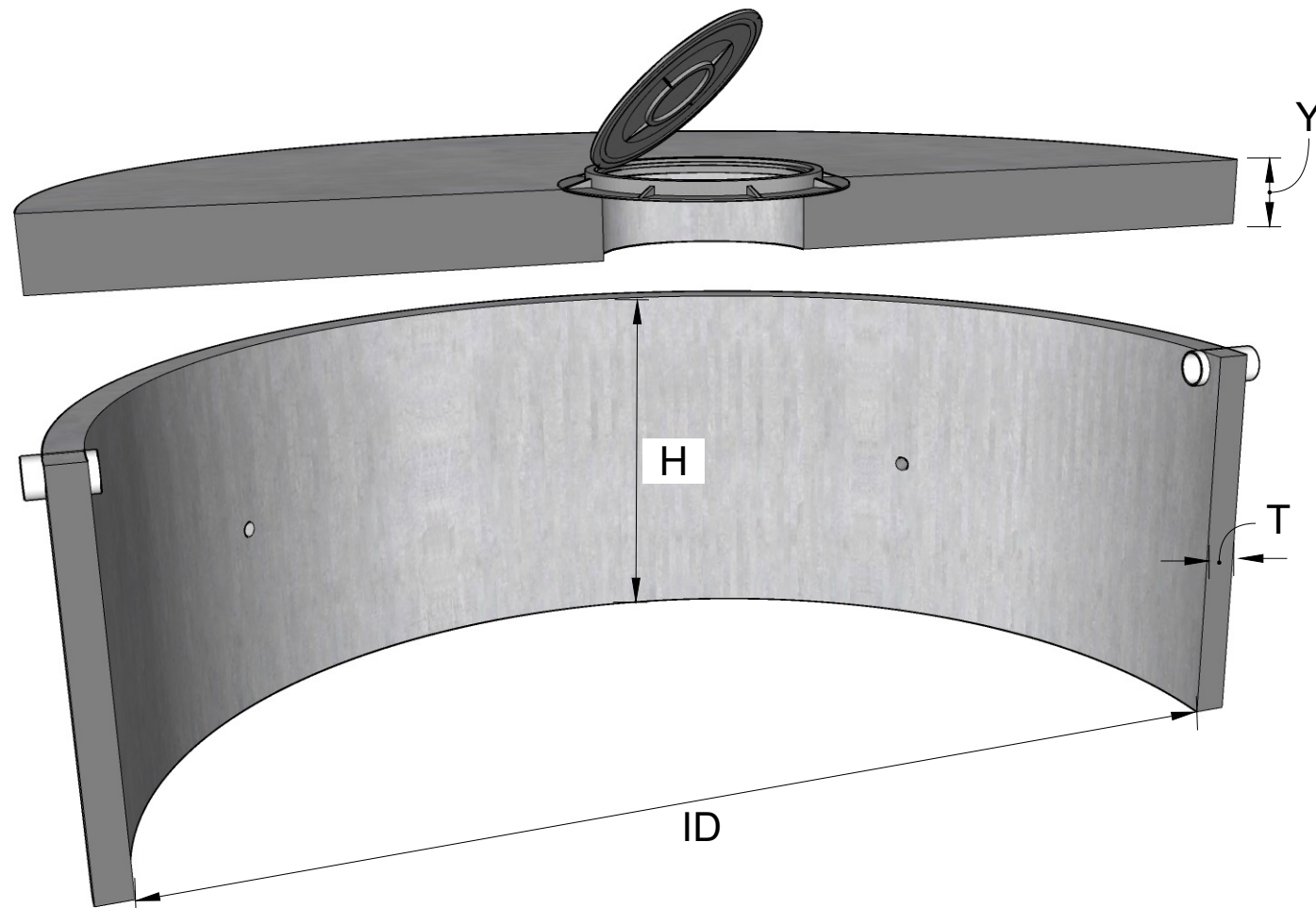
# SPECIFICATIONS

## **SPECIFICATIONS**

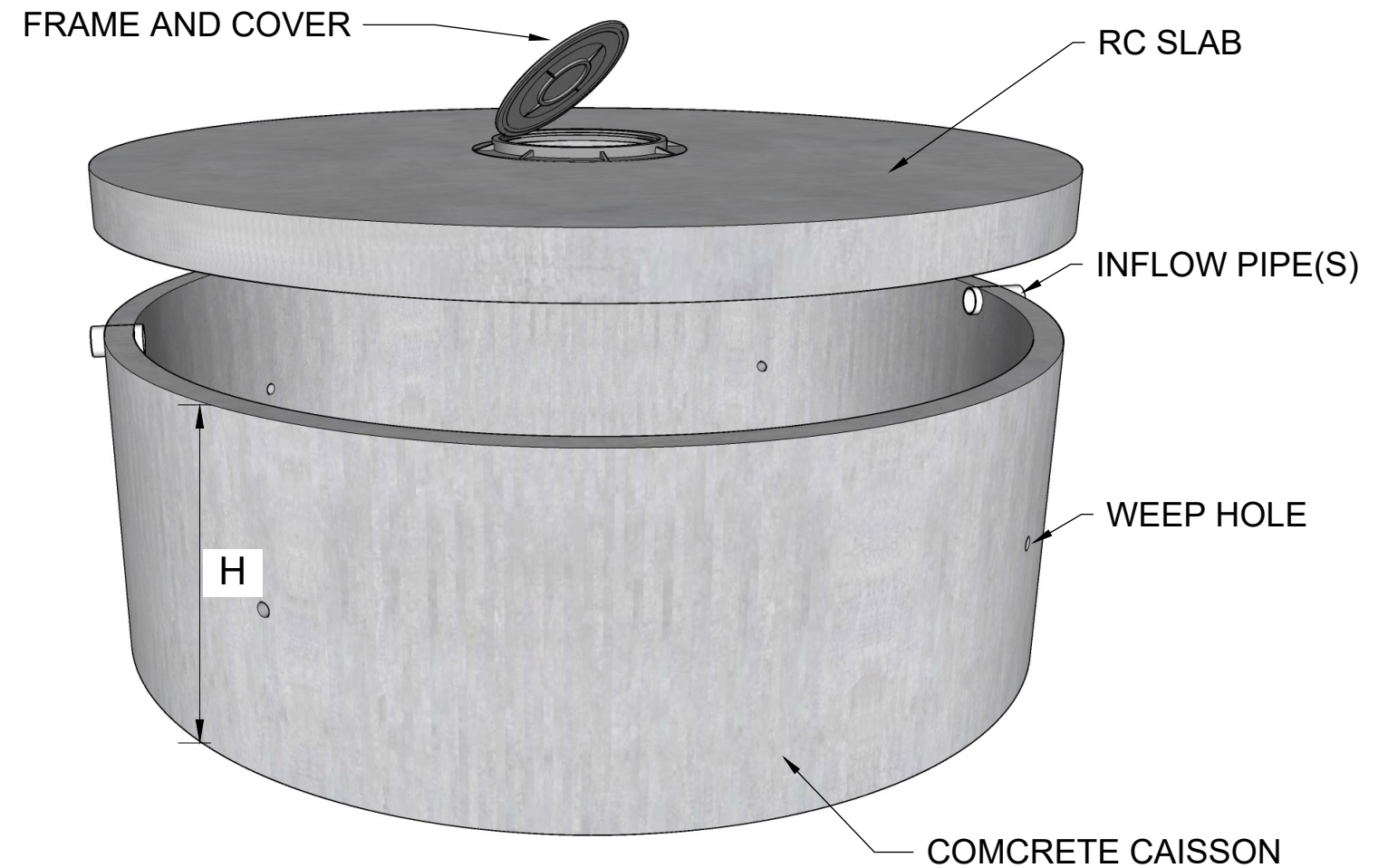
WATERSILO	STROMWATER DETENTIOIN DRYWELL
DRYWELL STRUCTURE	CONCRETE CAISSON
CAISSON HEIGHTH (H), FT	4.0
CAISSON INSIDE DIAMETER (ID), IN	134.0
CAISSON THICKNESS (T), IN	4.0
CAISSON STORAGE CAPACITY, CF	391.7
WATERSILO COVER	H-20 RATED RC SLAB
RC SLAB THICKNESS (Y), IN	8.0
WATERSILO ACCESS	CAST IRON FRAME & COVER
ACCESS DIA., IN	24
INFLOW PIPE(S)	NUMBERS AND DIAMETERS AS REQUIRED
WEEP HOLES	4 NOS, 2" DIAMETER

## **GENERAL CONDITIONS**

1. WATERSILO CAISSON DRYWELL SHALL BE INSTALLED ACCORDING TO SEITEC-APPROVED DRAWINGS BY SEITEC OR SEITEC-AUTHORIZED CONTRACTORS ONLY.
2. SOIL AND SITE CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.



SECTION



PERSPECTIVE

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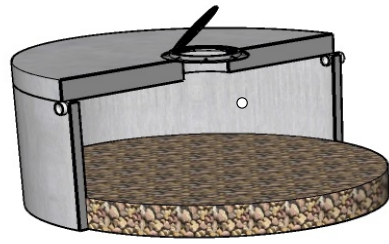
**SPECIFICATIONS**

**2.0**

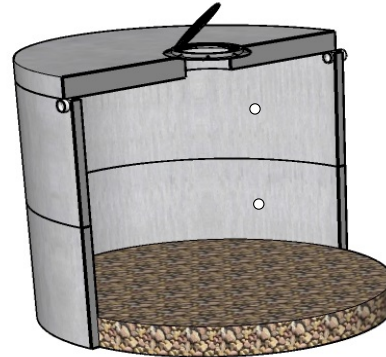


## EXAMPLES WITHOUT INFILTRATION SHAFT

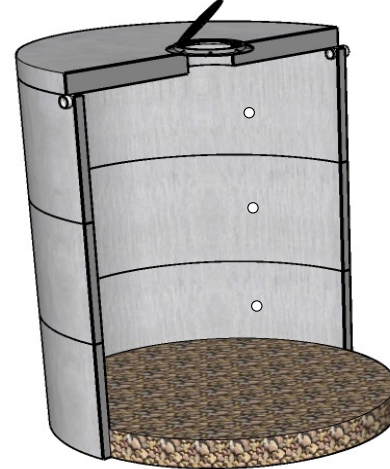
**A. ONE-CAISSON WELL**



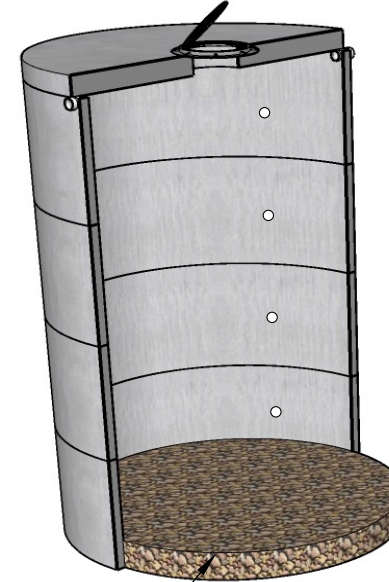
**B. TWO-CAISSON WELL**



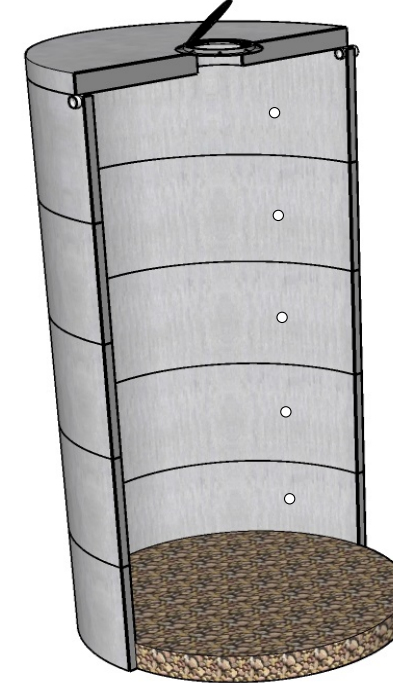
**C. THREE-CAISSON WELL**



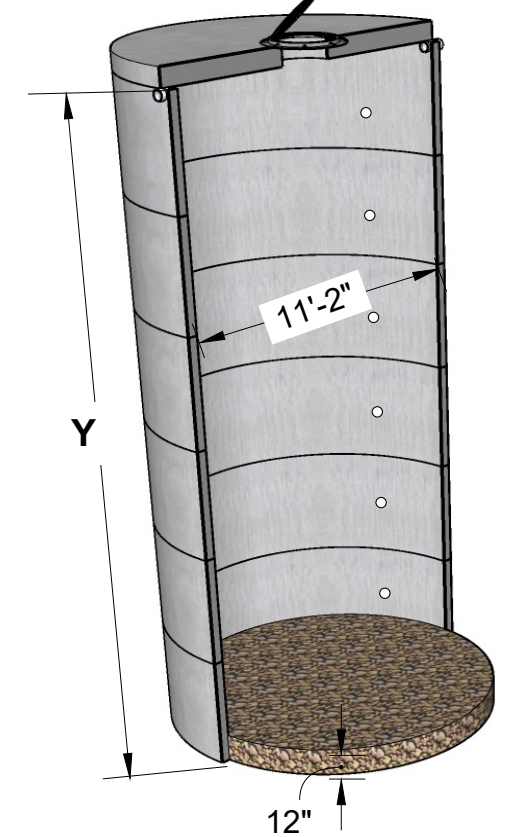
**D. FOUR-CAISSON WELL**



**E. FIVE-CAISSON WELL**



**F. SIX-CAISSON WELL**



GRAVEL BED

### INFILTRATION RATE (Q), DETENTION VOLUME (V), AND DETENTION TIME (T), VALUES

Example	N Caissons	Y, ft	Q <sub>max</sub> , cfs	Q <sub>min</sub> , cfs	Q <sub>av</sub> , cfs	Q <sub>av</sub> , gpm	V Caissons, cf	V Voids, cf	Total V, cf	Total V, gal	T, hrs
A	1	4	0.0025	0.0011	0.0018	0.8	294	39	333	2,500	51.0
B	2	8	0.0056	0.0011	0.0034	1.5	686	39	725	5,400	59.5
C	3	12	0.0095	0.0011	0.0053	2.4	1,077	39	1,116	8,400	58.1
D	4	16	0.0142	0.0011	0.0077	3.4	1,469	39	1,508	11,300	54.8
E	5	20	0.0195	0.0011	0.0103	4.6	1,861	39	1,900	14,200	51.2
F	6	24	0.0255	0.0011	0.0133	6.0	2,253	39	2,292	17,100	47.9

**NOTES:**

1. Assumed design infiltration rate, 0.5 in/hr
2. Assumed gravel void ratio, 0.4
3. Infiltration rate calculation based on USBR Test Method 7300-89
4. Q<sub>max</sub> corresponds with maximum water level
5. Q<sub>min</sub> corresponds with minimum water level

**EXAMPLES WITHOUT SHAFT**

3.0

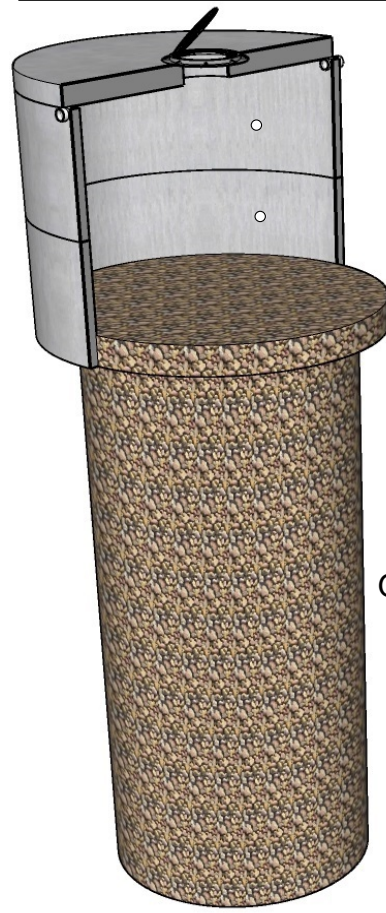


## EXAMPLES WITH INFILTRATION SHAFT

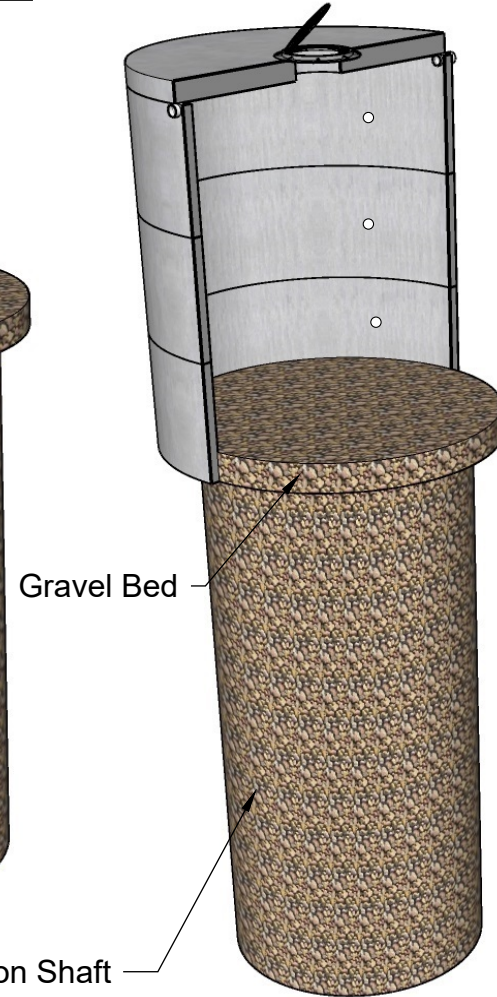
**A. ONE-CAISSON WELL  
20' SHAFT**



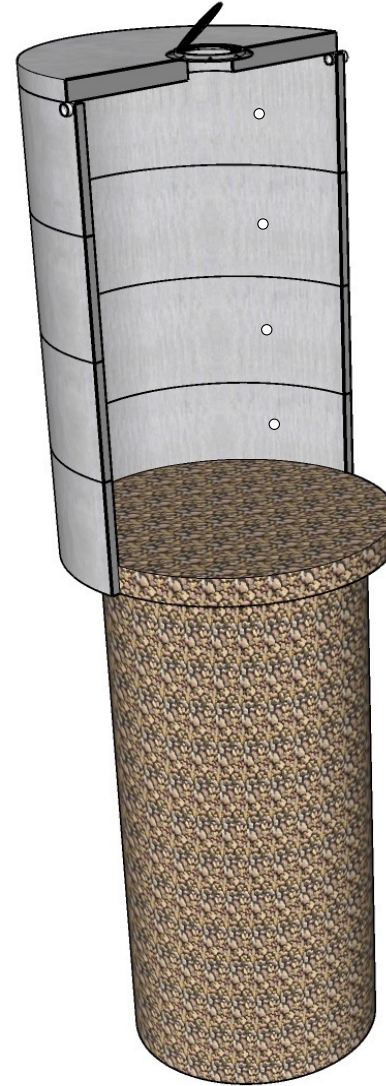
**B. TWO-CAISSON WELL  
20' SHAFT**



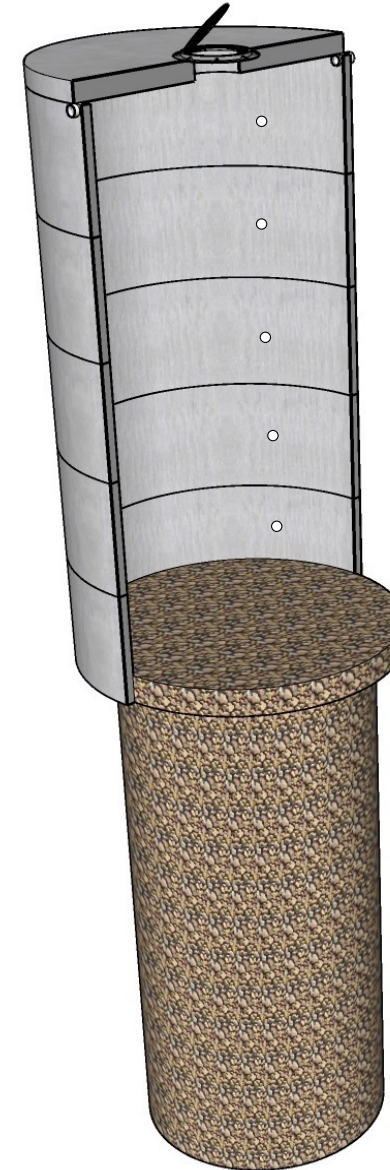
**C. THREE-CAISSON WELL  
20' SHAFT**



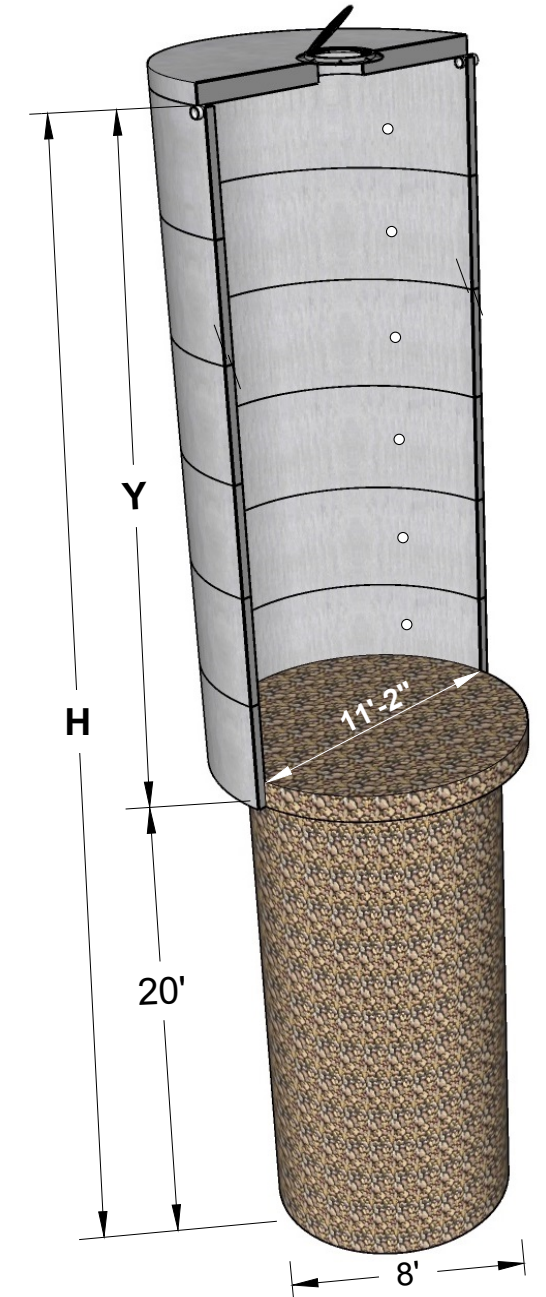
**D. FOUR-CAISSON WELL  
20' SHAFT**



**E. FIVE-CAISSON WELL  
20' SHAFT**



**F. SIX-CAISSON WELL  
20' SHAFT**



**INFILTRATION RATE (Q), DETENTION VOLUME (V), AND DETENTION TIME (T), VALUES**

Example	N Caissons	Y, ft	Q <sub>max</sub> , cfs	Q <sub>min</sub> , cfs	Q <sub>av</sub> , cfs	Q <sub>av</sub> , gpm	V Caissons, cf	V Voids, cf	Total V, cf	Total V, gal	T, hrs
A	1	4	0.025	0.0177	0.0216	9.7	294	441	735	5,500	9.5
B	2	8	0.032	0.0164	0.0242	10.9	686	441	1,127	8,400	12.9
C	3	12	0.039	0.0154	0.0273	12.3	1,077	441	1,519	11,400	15.4
D	4	16	0.047	0.0146	0.0309	13.8	1,469	441	1,910	14,300	17.2
E	5	20	0.056	0.0139	0.0347	15.6	1,861	441	2,302	17,200	18.4
F	6	24	0.065	0.0133	0.0390	17.5	2,253	441	2,694	20,100	19.2

**NOTES:**

1. Assumed design infiltration rate, 0.5 in/hr
2. Assumed gravel void ratio, 0.4
3. Infiltration rate calculation based on USBR Test Method 7300-89
4. Q<sub>max</sub> corresponds with maximum water level
5. Q<sub>min</sub> corresponds with minimum water level

**EXAMPLES WITH SHAFT**

4.0

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