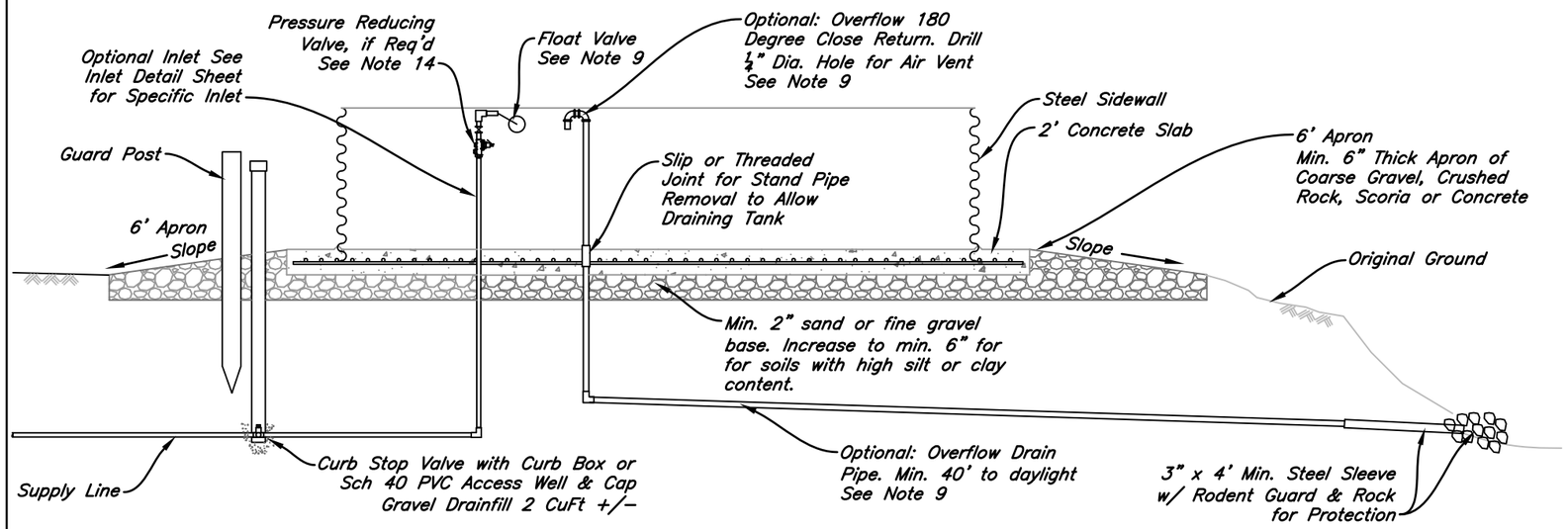
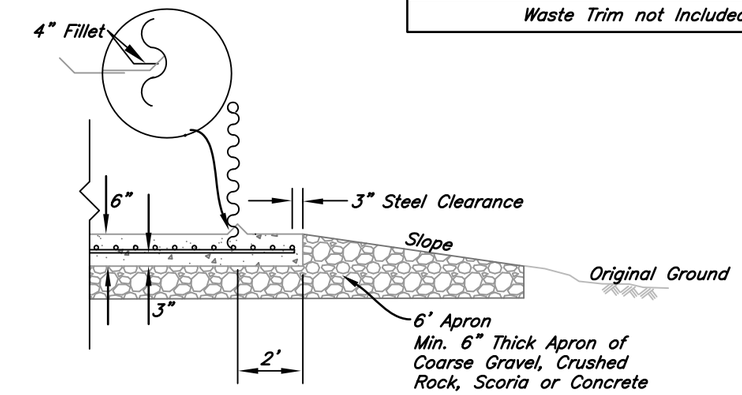


CROSS SECTION VIEW
Not to Scale

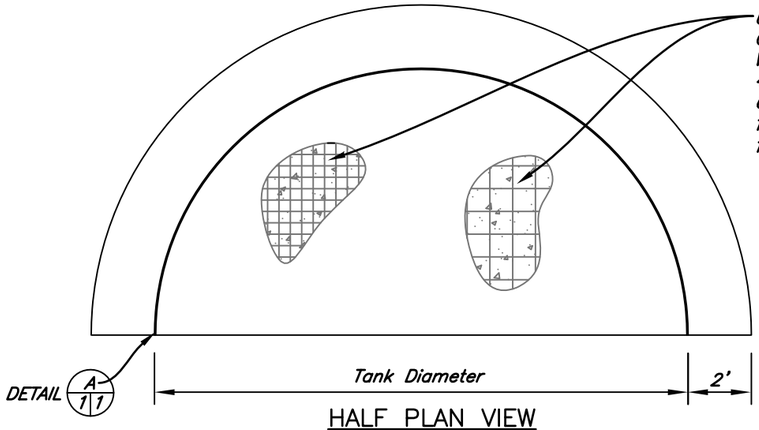
Estimated Quantities & Materials					
Diameter Ft.	Gage Min.	Reinforcement		Base Material CuYd	Gravel CuYd
		⅜" Bar lbs.	Welded Wire SqFt		
10	16	138	131	2.9	4.2
12	16	180	172	3.7	4.7
14	16	219	217	4.7	5.1
16	16	288	268	5.8	5.6
18	16	346	324	7.0	6.1
20	16	387	385	8.4	6.5
22	16	459	451	9.8	7.0
24	16	555	524	11.4	7.4
25	16	580	562	12.2	7.7
30	16	852	772	16.8	8.8
40	14	1,411	1,293	28.2	11.2
50	14	2,111	1,948	42.4	13.5
60	14	2,975	2,735	59.6	15.8
Waste Trim not Included in Welded Quantities					

CONSTRUCTION NOTES

1. The NRCS Representative shall approve the subgrade preparation, forms and reinforcing steel placement before concrete is poured.
2. Forms shall not be removed before 24 hours have elapsed after placement of concrete.
3. Concrete shall be prevented from drying a minimum of 5 days after it is placed. Exposed surfaces must be kept continuously moist for the entire period or treated by using a curing compound.
4. Joints and edges on surfaces that will be exposed to view shall be chamfered or finished with molding tools.
5. Plastic chairs shall be used to support the rebar or mesh supports for the welded wire fabric.
6. The wall shall not be in contact with reinforcing steel. Concrete chairs or non-electrical conducting materials such as asphalt mastic shall be used to accomplish separation requirements.
7. Concrete shall be min. 3000 psi at 28 days with air entrained at 4-7% by volume. Mix design shall be in accordance with ASTM C94.
8. All steel watering facility material shall be galvanized, stainless steel, or completely factory plastic- coated or epoxy-coated. Galvanized steel shall meet the requirements of specification ASTM-A653 or A924. The portion of the steel ring embedded in concrete shall be coated with a plastic or asphalt based sealant prior to final placement.
9. An overflow and drain pipe Sch. 40 PVC with a minimum 2" diameter or at least ½" Dia. larger than the supply line, must be installed if the water level in the tank is not controlled with a float. The drain pipe shall be graded to allow drainage and a min. of 40' from the tank. Protect drain pipe at outlet end by backfilling over pipe with field stone.
10. Hydrant and float or overflow must be protected.
5. Anchoring and bracing is optional. Anchoring will be adjacent to the watering facility and embedded in the ground. Anchors can be ½" rod, standard T or U section steel post (1.33lb/ft), metal pipe (2 ⅞" OD Min.) with cap, treated wood post (5" Top Dia. Min.), or as specified by the manufacturer. Bracing can be 2"x8" planks, metal pipe (2" OD Min.) or guard rail. Other materials and configurations for tank anchoring and bracing will be considered with prior NRCS approval.
6. A wildlife escape ramp is required every 30' of the perimeter of the tank with exception for tanks with less than 10 square feet of contiguous open water area. Escape ramps molded into the tank edges by the manufacturer during fabrication are acceptable. See wildlife escape ramp detail sheet.
7. PVC pipe shall be made of ultraviolet (UV) resistant materials or shall have a durable coating of UV resistant paint to protect it from deterioration due to sunlight. PVC pipe used for access to appurtenances is exempt from this requirement.



DETAIL A 1 1
Not to Scale



HALF PLAN VIEW
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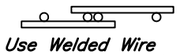

SPLICE & LAP DETAIL
Not to Scale

Date
Designed Cassie Ahmed 03-22-2023
Drawn
Checked
Approved

STEEL RIM & CONCRETE STOCKWATER TANK

OWNER:

COUNTY:

United States Department of Agriculture
USDA
Natural Resources Conservation Service

File Name
ND-DWG-108

Date
03-22-2024

Sheet of