

THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

THE CONTRACTOR/OWNER IS TO NOTIFY THE SOIL CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A PRECONSTRUCTION MEETING, FACILITATE ANY SCHEDULING, LAYOUT, OR PRELIMINARY MOBILIZATION NECESSARY TO ENSURE PROPER CONSTRUCTION INSPECTION TO ENABLE APPROPRIATE CERTIFICATION OF THE PROJECT. A CONSERVATION TECHNICIAN SHALL VERIFY CUT/GRADE STAKES AT THE CONTRACTORS REQUEST.

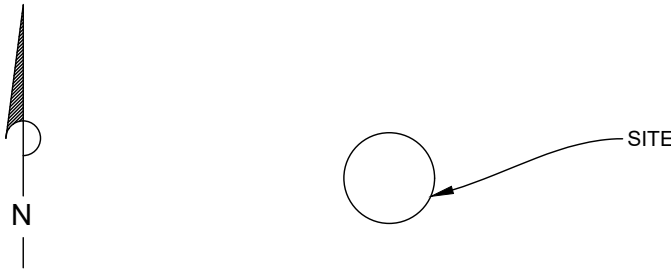
THE OWNER/OPERATOR GIVES PERMISSION FOR MDE AND COE INSPECTION.

IT IS THE LANDOWNER'S RESPONSIBILITY TO OBTAIN ALL COUNTY, STATE, AND FEDERAL PERMITS THAT MAY BE NEEDED, AND TO MAINTAIN THIS STRUCTURE AND RELATED REGULATIONS.

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS.

# LANDOWNER - SITE NAME

## 614 WATERING FACILITY

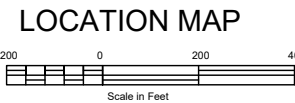


### CRITICAL INSPECTION ITEMS (Watering Facility)

9/15/15

- The landowner will arrange for a pre-construction meeting between the contractor, NRCS and landowner to review the plans, standards and specifications prior to the start of construction.
- There will be no changes in specifications, dimensions, or materials unless approved by the engineer responsible for this drawing.
- The drawings are prepared cooperatively by the Natural Resources Conservation Service for named owner/operator. Construction found not in accordance with these drawings and specifications shall violate the cooperative agreement and all drawings, specifications, and Quantities Estimate shall immediately be returned to the local NRCS office.
- The following is a list of items that must be inspected by the Technician-in-Charge. If cost share is involved, payment may be forfeited if the Technician-in-Charge does not inspect all of the below:
  - Preconstruction Meeting: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Verify layouts: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Verify all subgrades: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Verify Pipe Placement:
    - Inspect Trench and Grades: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Pipe and Drain Tubing Placement: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Pipe Material and Size: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Placement of Stone Envelope: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Backfill and Compaction: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Rodent Guard Installed at Outlet: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Placement of Collection Ring (When Applicable):
    - Material and Size: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Placement: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Proper Lid and Bottom: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Connections: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Backfill: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Placement of Watering Facility:
    - Inspect Foundation: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Subgrade Material: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Placement of Trough: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Placement of Concrete or Stone Pad:
    - Inspect Foundation: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Gradation and Placement of Stone or Subbase: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Reinforcement Steel for Concrete Pad: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Placement and Curing of Concrete: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Final Grading: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Fencing:
    - Type and Materials: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Proper location: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
    - Installation: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - All disturbed areas seeded and mulched: Date: \_\_\_\_\_ Initials: \_\_\_\_\_
  - Other items shown on the plans: Date: \_\_\_\_\_ Initials: \_\_\_\_\_

**REVISED 7/1/2021**



USER TO INSERT SHEET LIST TABLE



**Know what's below.  
Call before you dig.**

"The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities"

### AS-BUILT STATEMENT

THE CONSERVATION PRACTICE(S) MEETS OR EXCEEDS NRCS STANDARDS AND SPECIFICATIONS

INSPECTED BY: \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

CONSTRUCTION APPROVAL: \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

VERIFIED DISTRICT CONSERVATIONIST: \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

AS BUILT CONTRACT ITEMS: PRACTICE	Reportable Amount	Contract Amount

USER TO ENTER PRACTICES

### OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE COUNTY SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE CONTENTS, ALL CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS, I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THIS OFFICE.

OWNER/OPERATOR SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

CONTRACTOR'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

All disturbed areas to be stabilized within 7 days of completion, using the following recommendations.

### Seeding Recommendations

Tall Fescue	65 lb/ac
Perennial Ryegrass or	5 lb/ac
Redtop (tolerates moist sites)	2 lb/ac
White Clover	5 lb/ac
20-40-40 Fertilizer	500 lb/ac
Ground lime 50% oxides	3 tons /ac
Straw Mulch	2 tons/ac

**Dates listed are for plant hardiness Zone 6B, dates will need to be changed for other zones.**

Seeding Dates  
March 1 thru May 15  
August 1 thru October 1

It is the landowner responsibility to obtain All County, State, and Federal permits that may be needed, and to maintain this structure and those regulations.

USER TO ENTER SEEDING INFO

### SITE DATA:

LANDOWNER INFORMATION: \_\_\_\_\_ STREAM CLASSIFICATION: \_\_\_\_\_

USER TO ENTER INFORMATION

CONTACT PERSON: \_\_\_\_\_ STREAM CLOSURE DATE(S): \_\_\_\_\_

SITE DETAILS:  
TOTAL DISTURBED ACRES = ±  
TOTAL DISTURBED SQFT = ±

Construction supervision by NRCS/MDA/SCD personnel.  
Landowner's permission for MDE and COE inspection.

Date: \_\_\_\_\_

Designed: \_\_\_\_\_

Drawn: \_\_\_\_\_

Checked: \_\_\_\_\_

Approved: \_\_\_\_\_

LANDOWNER - SITE NAME

####

COUNTY Soil Conservation District

JOB CLASS #

TRACT #



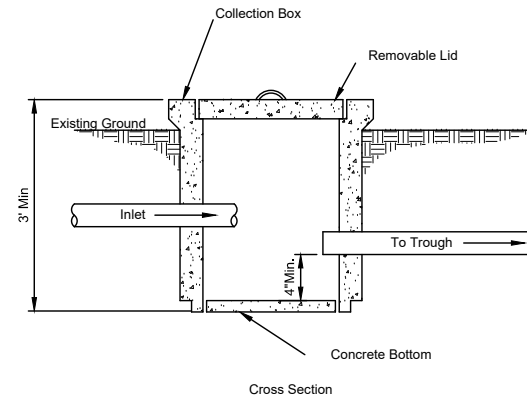
File Name

Drawing No.  
MD\_0054

Sheet 1 of 2

See Fence IR sheet for design

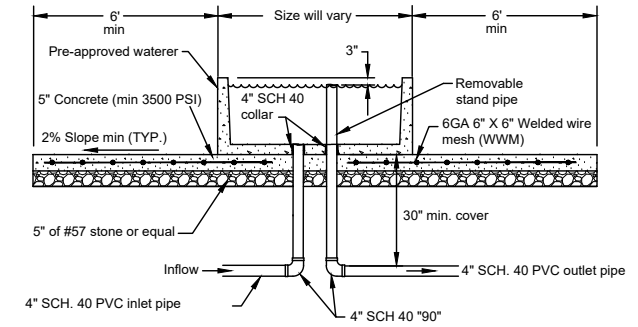
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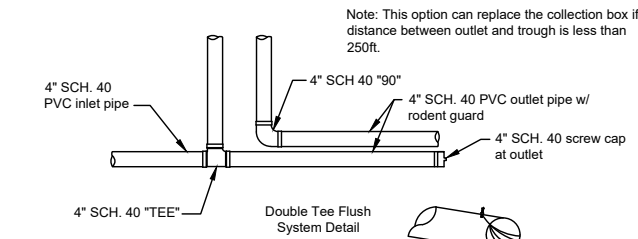
DESIGN AS BUILT		
Elevation Top of Structure		
Elevation at Pipe Invert (Inlet)		
Elevation at Pipe Invert (Outlet)		
Elevation Top of Collection Pipe		

- CONSTRUCTION NOTES**
- Plan, design and construct spring developments in accordance with Federal, State, and Local laws and regulations. When collecting water for potable uses, meet the requirements of the state health department for materials and installation. Permits may be required for the installation of these systems. Contact the Permits Division of the local county government for regulations and permit requirements.
  - A minimum of 10ft of SCH 40 PVC pipe shall be installed at the inlet and outlet of the collection box.

**GRAVITY FED TROUGH  
CONCRETE WATER COLLECTION**  
Not to scale

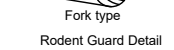


Watering Facility Detail



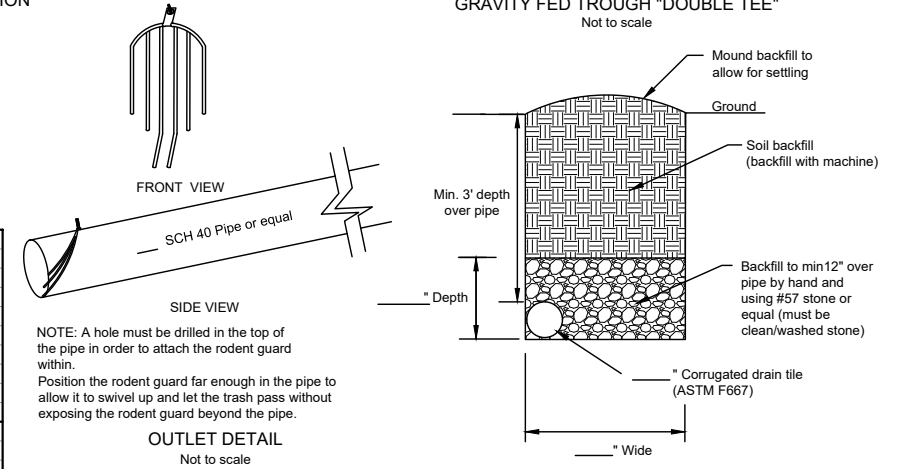
Double Tee Flush System Detail

NOTE: Supply line to trough must be SCH 40 PVC pipe and be glued to ensure watertight seal.



Rodent Guard Detail

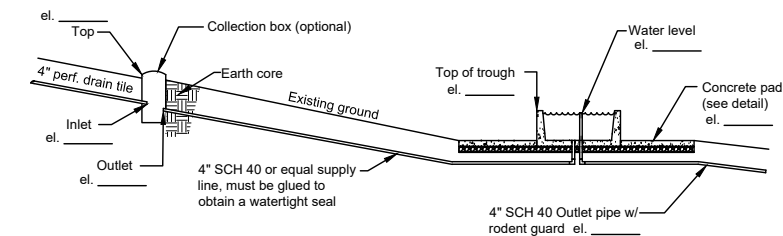
**GRAVITY FED TROUGH "DOUBLE TEE"**  
Not to scale



CROSS SECTION

- CONSTRUCTION NOTES**
- Plan, design and construct spring developments in accordance with Federal, State, and Local laws and regulations. When collecting water for potable uses, meet the requirements of the state health department for materials and installation. Permits may be required for the installation of these systems. Contact the Permits Division of the local county government for regulations and permit requirements.

**TILE DRAIN DETAIL**  
Not to scale



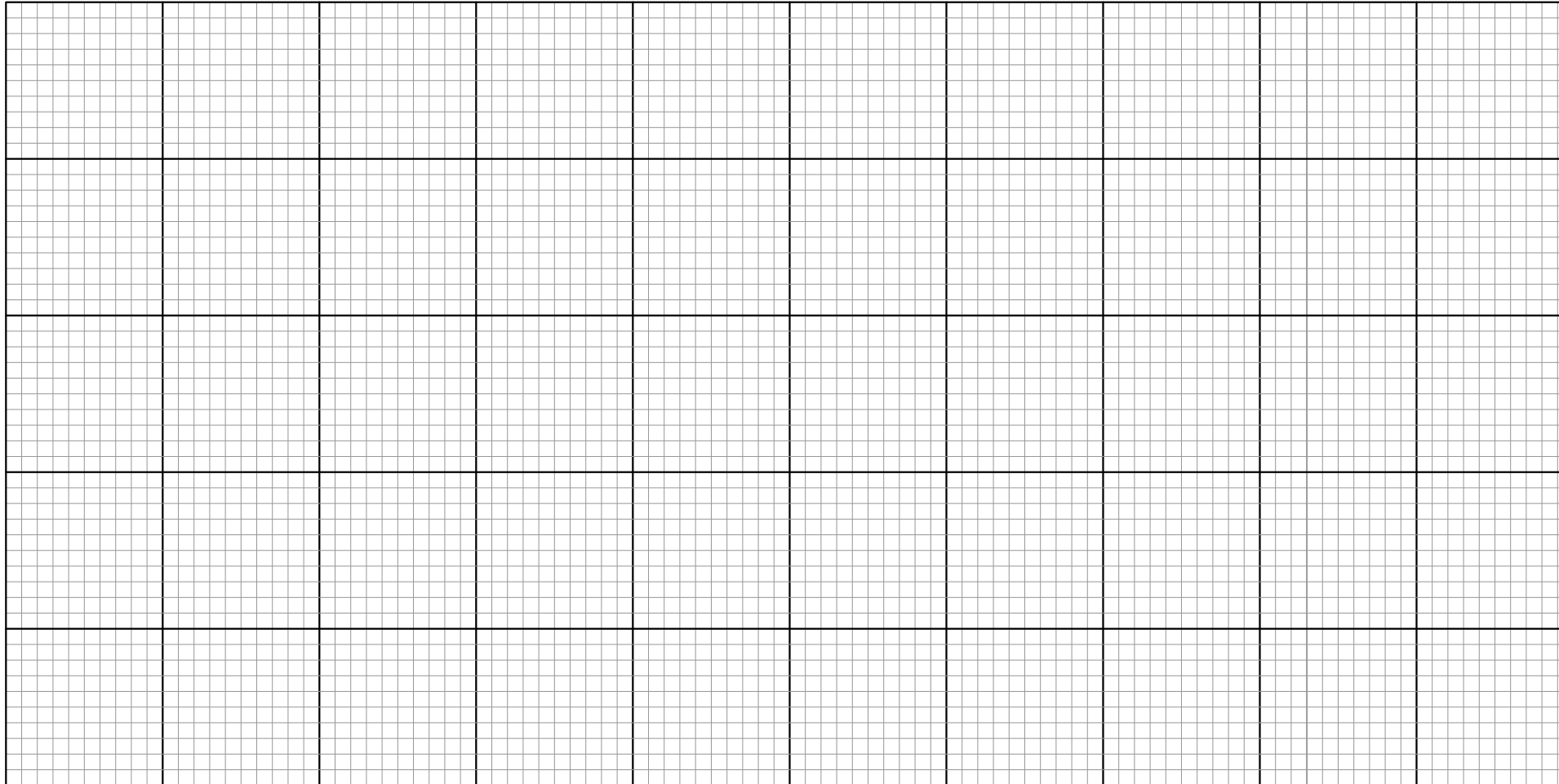
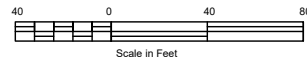
Supply Line Detail

- NOTES:**
- Exact location of supply line to be determined during construction by the landowner and soil conservation district
  - All lines to have a min 24" cover
  - Overflow line to extend to outlet as approved. A rodent guard must be installed at the outlet.
  - Specify 12" opening in bottom of trough. Opening to be concreted after pipe installation. (use hydraulic cements, no pre-mixed material)
  - Concrete apron must have 6 gauge 6"x6" welded wire mesh
  - Concrete to be minimum 3500 psi with 5% air entrainment and a slump of 3-5 inches.
  - Collection box and trough pipes shall be 4" SCH 40 pvc pipe

- INSTALLATION NOTES:**
- Grade pad for trough and install inlet pipe, including elbows
  - Backfill with #57 stone around trough
  - Set trough
  - Seal bottom holes
  - Pour concrete apron
  - Complete installation
  - Grade around all facilities as necessary to maintain positive drainage and spread spoil as directed by landowners
  - All disturbed areas to be stabilized within 14 days of completion, using the seeding recommendations provided

**GRAVITY FED TROUGH**  
Not to scale

**PLAN MAP**



**PROFILE**

Date	
Designed	
Drawn	
Checked	
Approved	

**LANDOWNER - SITE NAME**

#####  
COUNTY Soil Conservation District

JOB CLASS #

TRACT #

File Name

MD\_0054\_WateringFacilityGravity1x17.dwg

Drawing No.  
MD\_0054

Sheet 1 of 2