

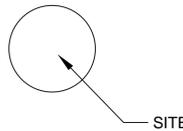
SAFETY REGULATIONS

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/PROJECT

614 - WATERING FACILITY

(DISTRICT SOIL CONSERVATION DISTRICT)



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.

VICINITY MAP
N.T.S.



**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 _____ |

| | | | | | |
|-----------------------------------------|-------------|---------|----------------------------------------|--|--|
| MM/YY | | | | | |
| Designed | Drawn | Checked | | | |
| LANDOWNER | | | Approved _____ Date _____ | | |
| TRACT 614 - WATERING FACILITY | | | Title _____ | | |
| City, Maryland | | | Job Class _____ | | |
| Maryland Department of Agriculture | | | DISTRICT Soil Conservation District | | |
| United States Department of Agriculture | | | Natural Resources Conservation Service | | |
| REVISIONS | Description | Date | Approved | | |
| | | | | | |
| | | | File No. * .DWG | | |
| | | | Sheet 1 of 4 | | |

MATERIALS LIST

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE _____ DISTRICT 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'S SIGNATURE _____ DATE _____

CONTRACTOR'S SIGNATURE _____ DATE _____

CONSTRUCTION NOTIFICATION
The Contractor/Owner is to notify the _____ DISTRICT SOIL CONSERVATION DISTRICT at least 72 hours prior to construction to facilitate any scheduling, layout, or preliminary mobilization necessary to ensure proper construction inspection to enable appropriate certification of the project.

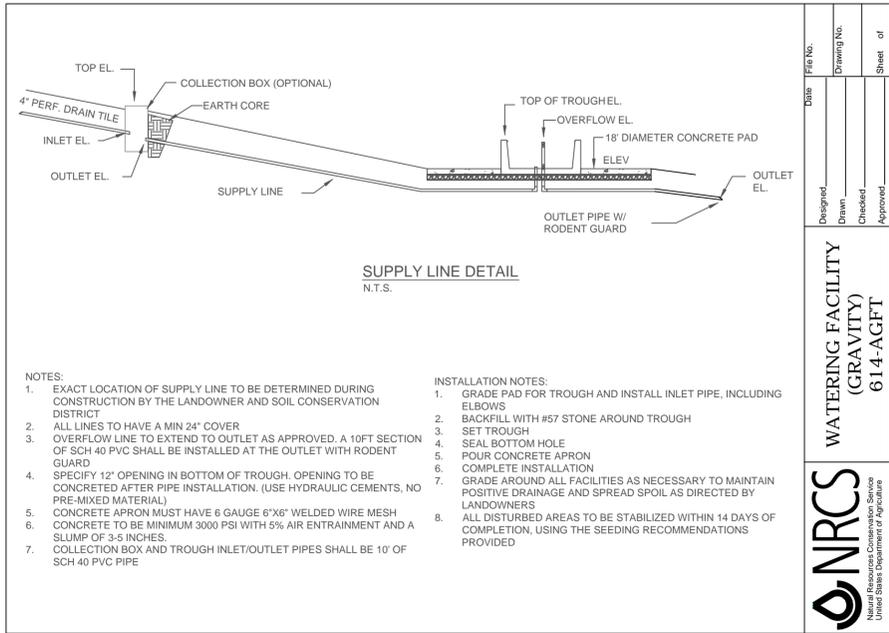
It is the Landowner's responsibility to obtain all County, State, and Federal permits that may be needed, and to maintain this structure and related regulations.

GRAVITY FEED SYSTEMS

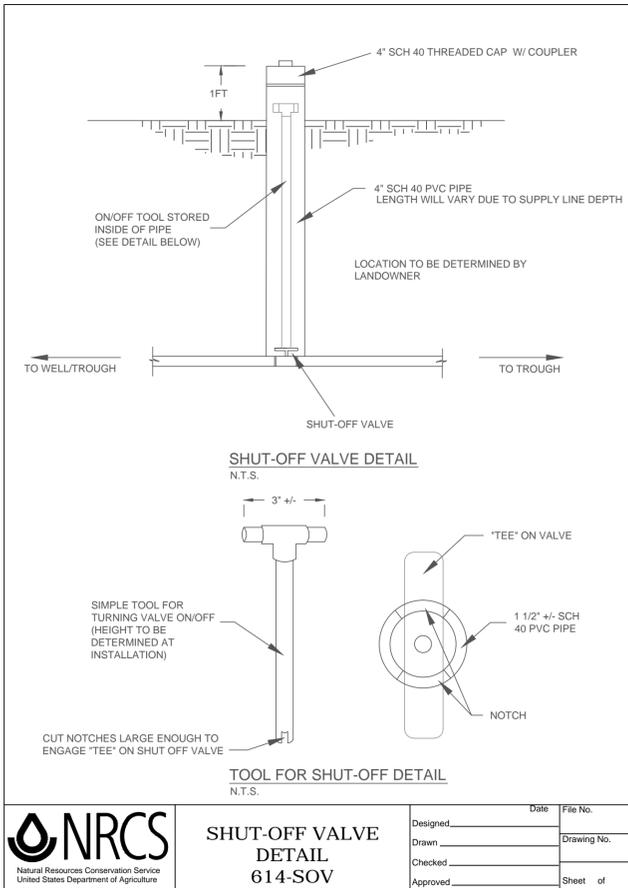
WATERING FACILITY (614)

Maintenance life of practice-10 yrs

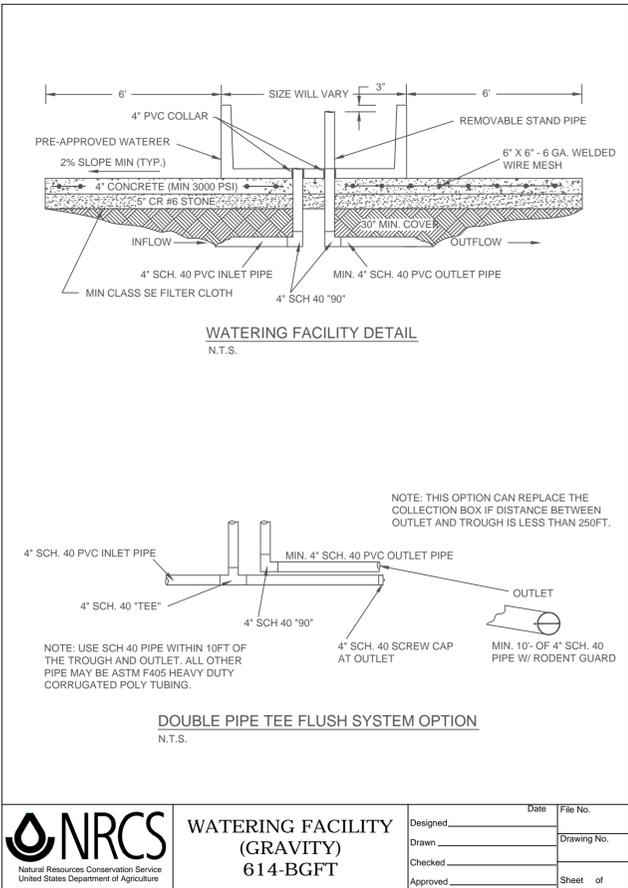
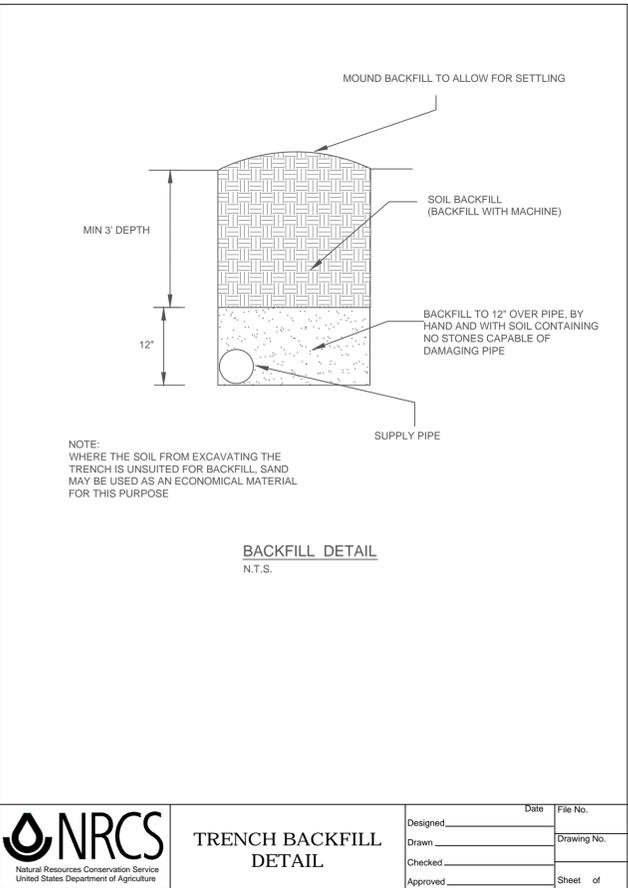
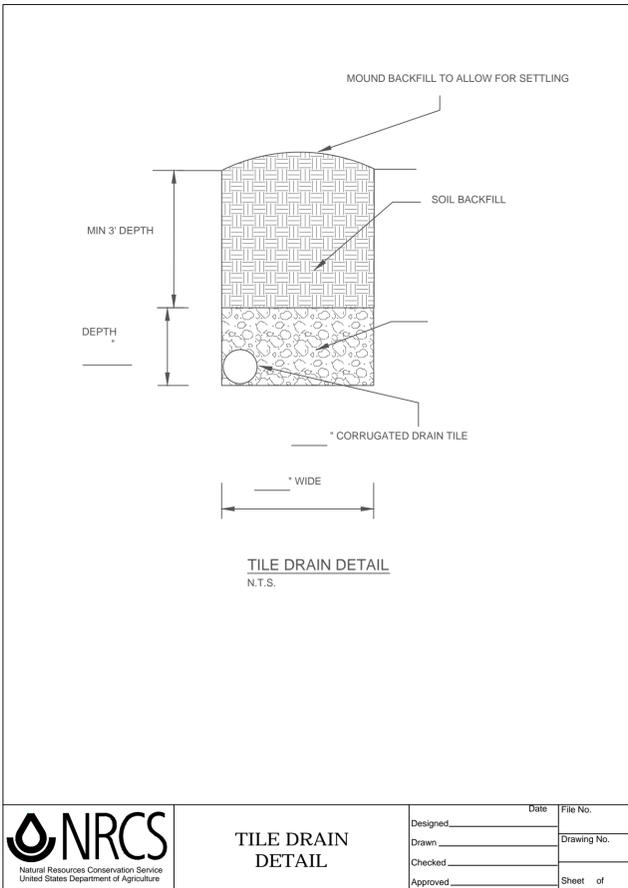
- 1) Inspect watering facility or troughs at least bi-annually. Things that shall be inspected include storage devices, valves, outlets, pipelines, automatic water level devices, and the reinforcement pads around the facility. If any damage or malfunctioning parts are found they should be fixed or returned to its original condition.
- 2) At times of inspection the facility must be inspected for any foreign debris, algae, sludge or other materials, which may restrict the flow or outflow of the system.
- 3) Prepare for cold weather use. Though most premanufactured troughs are frost or freeze proof they should be routinely inspected during the winter months. Inspect the water lines, which feed the trough as well. They may be more susceptible to freezing than the trough itself. If the watering facility is not freeze proof and it does freeze during cold weather, other measures shall be taken to get water to the livestock, which are using the facility.
- 4) Extra precautions should be taken while tilling or mowing around the facility. If any damages occur it should be repaired promptly back to its original condition.
- 5) Protect for damage due to livestock. Maintain fences and other devices that are used for this purpose.
- 6) If at any time leaks are found they must be repaired immediately.
- 7) Chemicals may be added to the system for control of algae when used in accordance with local rules and regulations.
- 8) Maintain vegetative cover around the system. Mow at least yearly and provide weed control as needed. Reseed, lime, and fertilize area around systems as needed.
- 9) Should any problems occur, contact the _____ Soil and Water Conservation District at 410-____-____ for assistance.



PLAN VIEW

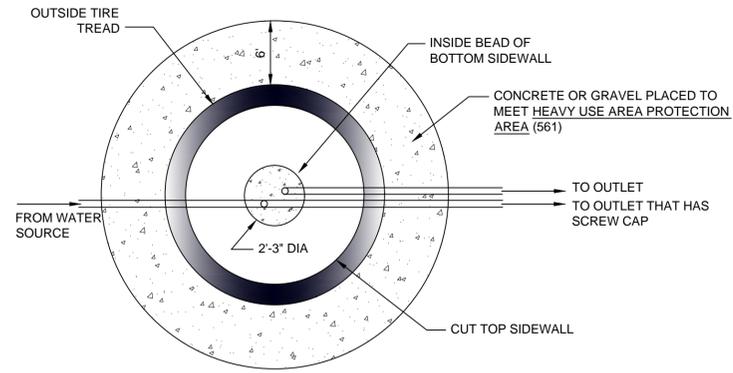


MISC. DETAILS



| | | | |
|-----------------------------------------|----------------------------------------------|-----------------------------------------|---------|
| MM/YY | Designed | Drawn | Checked |
| 646 | LANDOWNER | | |
| 646 | SHALLOW WATER DEVELOPMENT & MANAGEMENT TRACT | | |
| City, Maryland | City, Maryland | | |
| Approved | Date | Title | Class |
| Maryland Department of Agriculture | | DISTRICT Soil Conservation District | |
| United States Department of Agriculture | | United States Department of Agriculture | |
| USDA | | Natural Resources Conservation Service | |
| REVISIONS | Approved | | |
| Date | Description | | |
| File No. | *.DWG | | |
| Sheet 2 of 4 | | | |

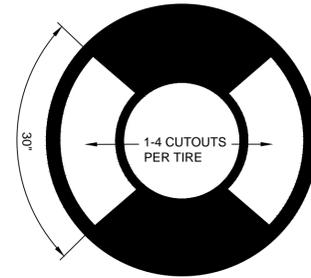
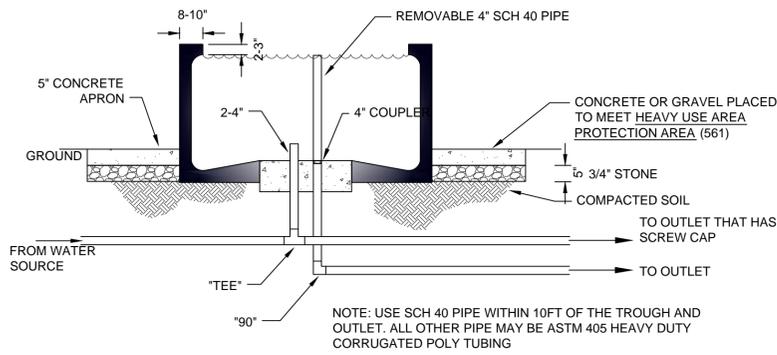
GRAVITY FED RUBBER TIRE TROUGH



PLAN VIEW

CONSTRUCTION SPECIFICATION USED HEAVY EQUIPMENT TIRE

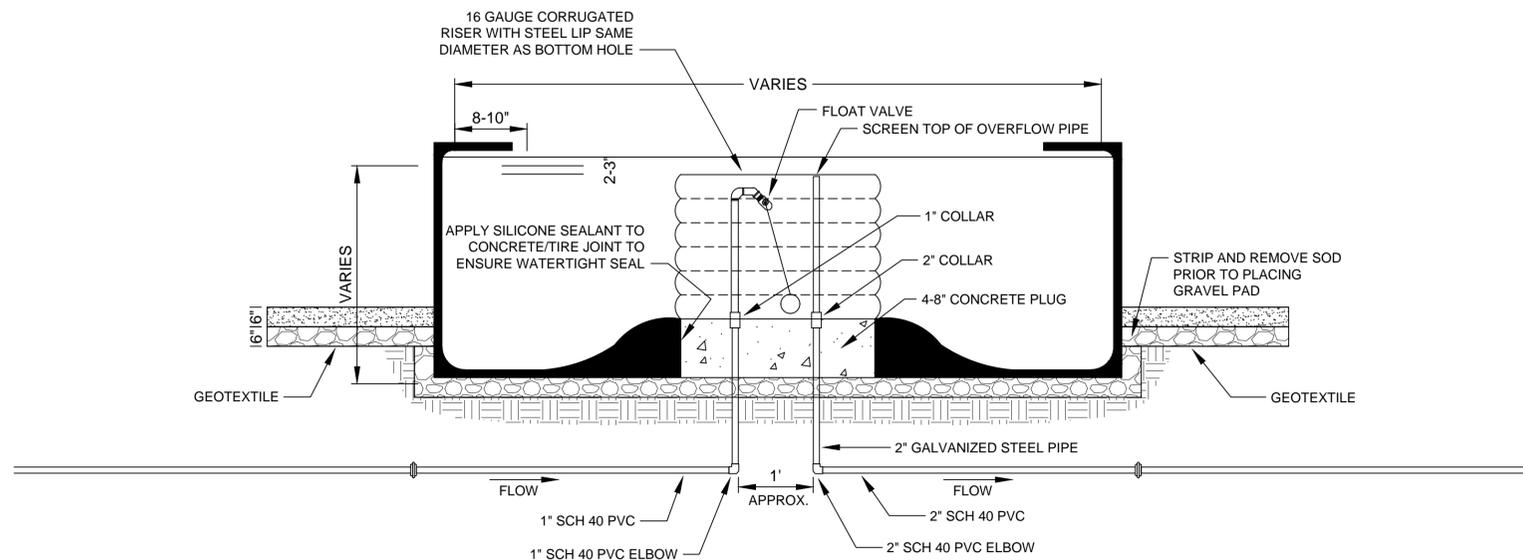
THE TROUGH SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE DRAWINGS.
 THE FOUNDATION AREA SHALL BE CLEARED OF ALL MATERIAL NOT SUITABLE FOR THE SUBGRADE.
 THE FOUNDATION AREA AND THE IMMEDIATELY SURROUNDING AREA SHALL BE SMOOTHED AND GRADED TO PERMIT FREE DRAINAGE OF SURFACE WATER. THE TIRE SHALL BE PLACED SUCH THAT APPROXIMATELY 1/3 TO 1/2 OF THE TIRE IS BELOW GRADE AND THE TIRE IS RESTING ON COMPACTED CLAY SOIL. A 3" TO 4" LAYER OF COMPACTED CLAY WILL BE PLACED AS A FOUNDATION AND SEAL BEFORE INSTALLING THE TIRE. TROUGH OR TANK AREAS THAT WILL BE TRAMPLED BY LIVESTOCK SHALL BE GRAVELED, PAVED, OR OTHERWISE TREATED TO PROVIDE FIRM FOOTING.
 ALL MATERIALS, PLACEMENT, ANCHORING, PROPORTIONING, AND PROTECTION SHALL BE AS SHOWN ON THE DRAWINGS.
 TRENCHES FOR PLASTIC OR COPPER PIPELINES SHALL BE COMPACTED TO THE DEGREE REQUIRED TO PREVENT CAVING SUBSEQUENT TO CONSTRUCTION. FOR PLASTIC OR COPPER PIPE, THE INITIAL BACKFILL SHALL BE OF SELECTED MATERIAL THAT IS FREE OF ROCKS OR OTHER SHARP-EDGED MATERIAL THAT CAN DAMAGE THE PIPE. DEFORMATION OR DISPLACEMENT OF THE PIPE MUST NOT OCCUR DURING BACKFILLING.
 CONCRETE USED IN CONSTRUCTION OF TROUGHS SHALL BE READY-MIXED CONCRETE (3000 PSI- 6 BAGS/CY MIX), PRE-BAGGED COMMERCIALY AVAILABLE CONCRETE MIX, OR HAND-MIXED ON-SITE. CEMENT WILL BE TYPE 1 WITH AIR ENTRAINMENT OR TYPE 1A MEETING REQUIREMENTS OF ASTM C150 AND AGGREGATES WILL MEET THE REQUIREMENTS OF ASTM C33. COARSE AGGREGATE WILL BE SIZE NO. 57 OR NO. 67 FOR READY-MIX AND HAND-MIXED CONCRETE. HAND-MIXED CONCRETE SHALL BE MIXED AT A RATIO OF 1 PART CEMENT, 2 PARTS SAND, AND 3 PARTS COARSE AGGREGATE. PRE-BAGGED CONCRETE MIX WILL BE MIXED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. MIXING WATER WILL BE CLEAN AND FREE OF SUBSTANCES THAT WOULD EFFECT THE STRENGTH OR DURABILITY OF THE CONCRETE. CONCRETE WILL BE MIXED TO A CONSISTENCY THAT WILL ALLOW PROPER CONSOLIDATION, BUT NOT SO WET THAT AGGREGATES WILL SEPARATE FROM THE MORTAR (APPROXIMATELY 3" - 6" SLUMP).
 ALL MATERIALS USED WILL BE IN GOOD CONDITION AND MEET REQUIREMENTS OF THE APPLICABLE ASTM SPECIFICATIONS OR COMMERCIAL STANDARDS AS SHOWN.
 UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS WILL BE GRADED SMOOTH AND BLEND WITH THE SURROUNDING GROUND. VEGETATION WILL BE ESTABLISHED BY APPLYING SEEDING AND MULCHING MATERIALS AS DESCRIBED ON THE DRAWINGS.
 CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION, AIR, AND WATER POLLUTION WILL BE MINIMIZED AND HELD WITHIN LEGAL LIMITS.



TOP VIEW

CAUTION:
 HEAVY EQUIPMENT TIRES ARE NORMALLY FILLED WITH LIQUID DURING USE FOR WEIGHT AND BALLAST. RESIDUES FROM THESE LIQUIDS COULD BE TOXIC TO LIVESTOCK. THE NATURAL RESOURCES CONSERVATION SERVICE MAKES NO REPRESENTATION TO THE EXISTENCE OR NONEXISTENCE OF TOXIC RESIDUES IN THE USED TIRES. IT IS THE RESPONSIBILITY OF THE LANDOWNER TO ENSURE THEMSELVES THAT NO HAZARDS EXISTS.

PRESSURE FED RUBBER TIRE TROUGH



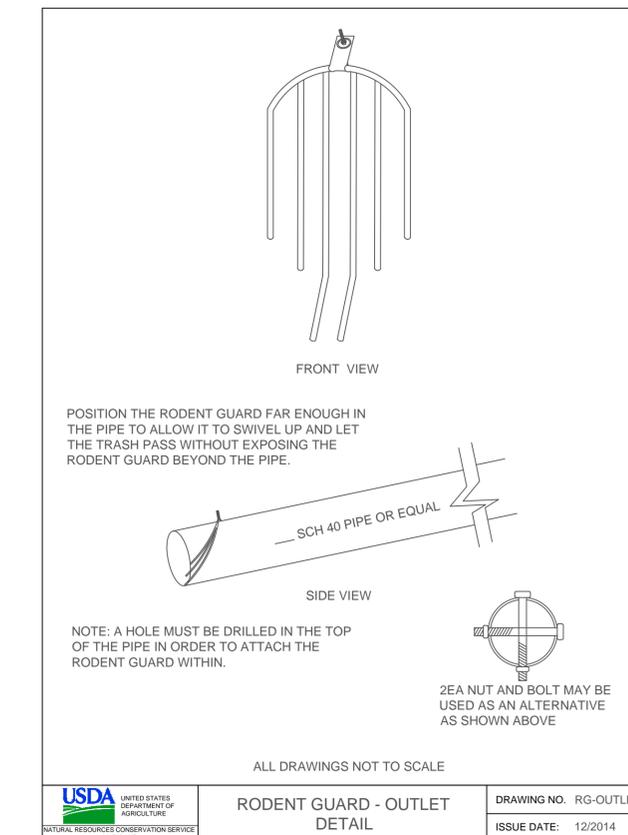
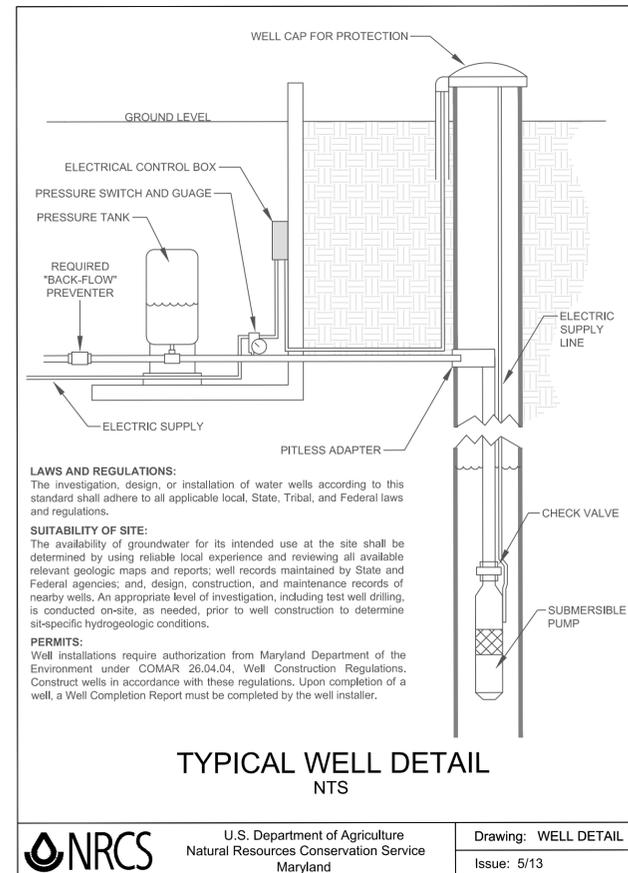
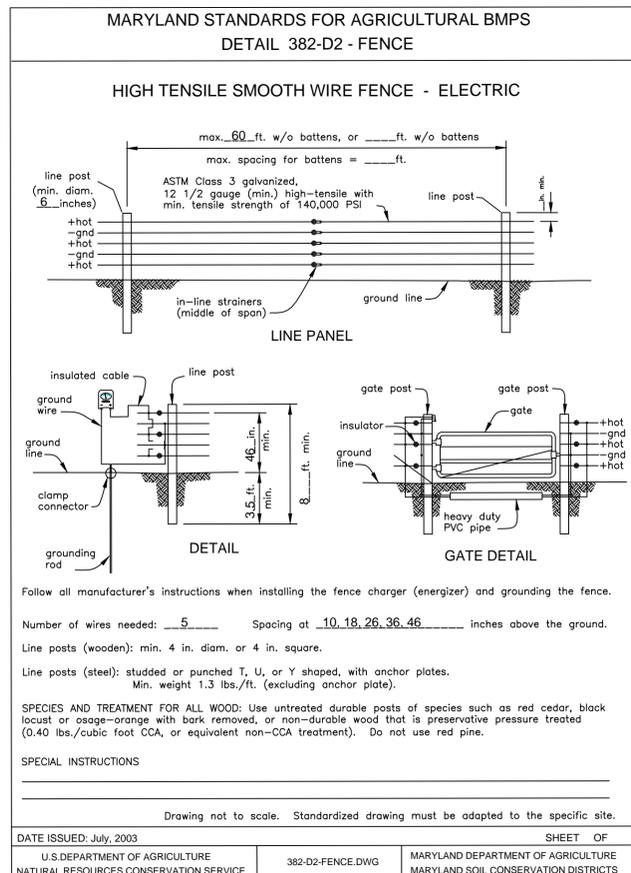
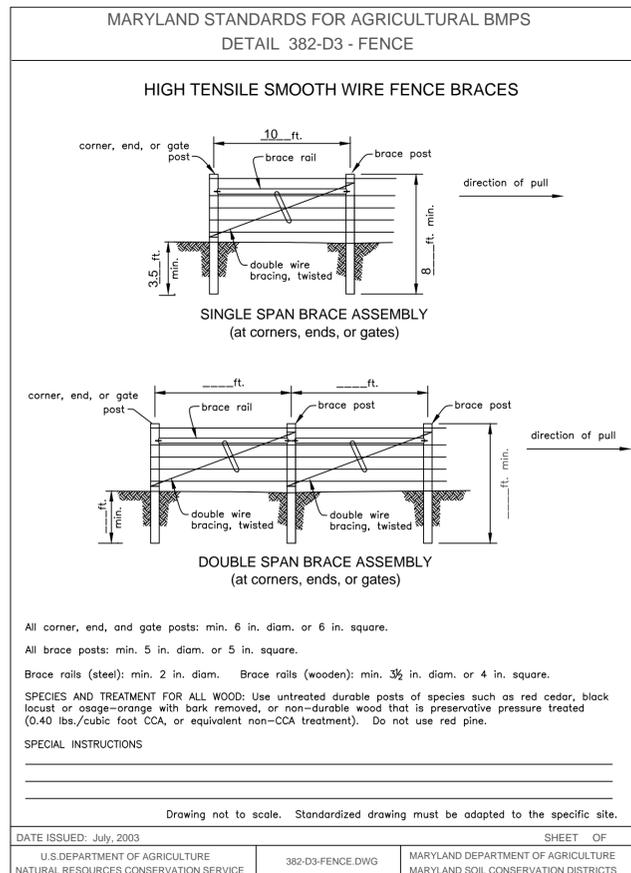
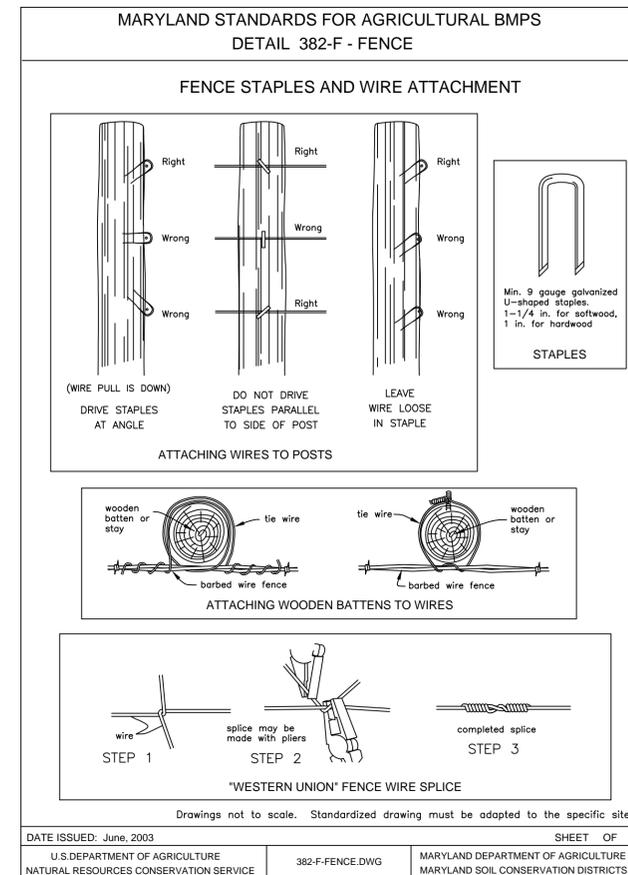
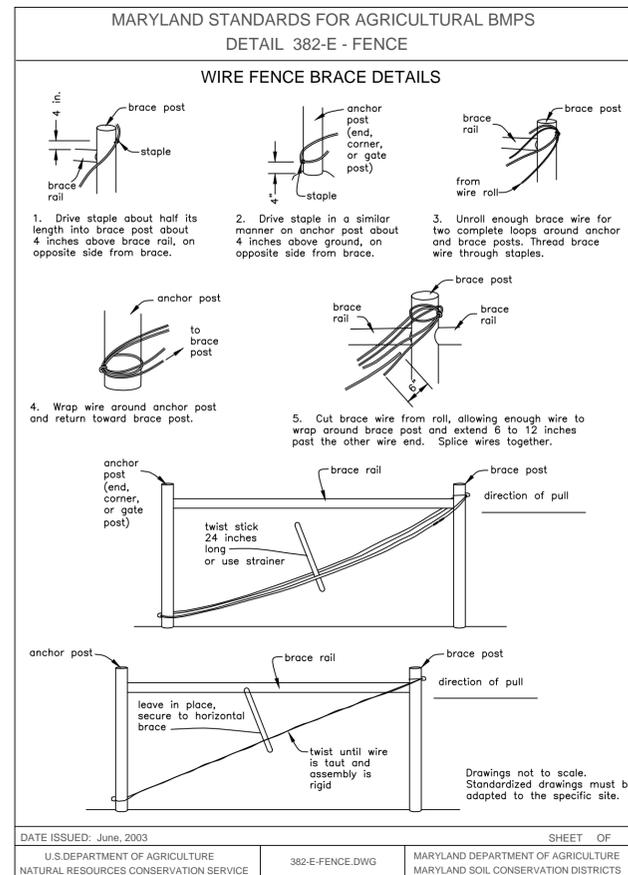
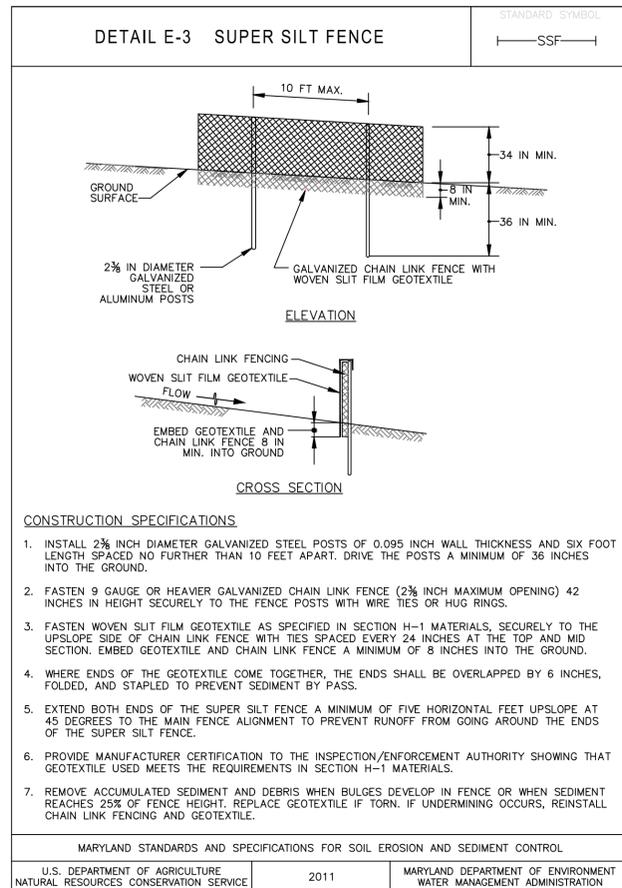
SIDE VIEW

| | | | |
|----------------------------------------------------|----------|-------|---------|
| MM/YY | Designed | Drawn | Checked |
| LANDOWNER | | | |
| 646 - SHALLOW WATER DEVELOPMENT & MANAGEMENT TRACT | | | |
| City, Maryland | | | |
| Approved | Date | Title | Class |
| Maryland Department of Agriculture | | | |
| DISTRICT Soil Conservation District | | | |

| | |
|-----------------------------------------|----------------------------------------|
| United States Department of Agriculture | Natural Resources Conservation Service |
|-----------------------------------------|----------------------------------------|

| REVISIONS | Date | Description | Approved |
|-----------|------|-------------|----------|
| | | | |

| | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------|-------------------------------------------------|-----------------------------------------|---------------------------|----------------|
| LANDOWNER TRACT | | PRACTICE(S) | | | | |
| TOTAL AREA | AREA 1 | AREA 2 | AREA 3 | AREA 4 | AREA 5 | AREA 6 |
| MATERIALS/RATE | AMOUNT PLANNED | AMOUNT APPLIED | AMOUNT PLANNED | AMOUNT APPLIED | AMOUNT PLANNED | AMOUNT APPLIED |
| FERTILIZER 10-20-20 500LBS/AC | | | | | | |
| LIME - 2TONS/AC DOLOMITIC | | | | | | |
| SEED MIXTURE (SEE BELOW) | | | | | | |
| MULCH 2 TONS/AC | | | | | | |
| ENTER KINDS AND AMOUNT OF SEED BELOW | | | NOTE: INOCULATE ALL LEGUMES | | | |
| AREA 1 NRCS SEED MIX # | AREA 2 NRCS SEED MIX # | AREA 3 NRCS SEED MIX # | AREA 4 NRCS SEED MIX # | AREA 5 NRCS SEED MIX # | AREA 6 NRCS SEED MIX # | |
| | | | | | | |
| SITE PREPARATION AND OTHER PERTINENT INFORMATION: DISK ALL DISTURBED AREAS TO A DEPTH OF 4-6" CULTIPACK AFTER SEEDING | | | SEEDING DATES SPRING: FALL: | | | |
| PLAN APPROVED BY: | CHECKED FOR TECHNICAL COMPLIANCE BY: | | | | | |
| TITLE | DATE | TITLE | DATE | TITLE | DATE | |
| USDA UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE MARYLAND | | SEEDING | | DRAWING NO. S-1.0 ISSUE DATE: 7/2014 | | |



| | | | |
|-----------------------------------------------------------------------------------|----------|----------------------------------------|-------------|
| MM/YY | Designed | Drawn | Checked |
| LANDOWNER 646 - SHALLOW WATER DEVELOPMENT & MANAGEMENT TRACT City, Maryland | | | |
| Approved | Date | Title | Class |
| Maryland Department of Agriculture DISTRICT Soil Conservation District | | | |
| USDA United States Department of Agriculture | | Natural Resources Conservation Service | |
| REVISIONS | Approved | Date | Description |
| | | | |
| File No. *DWG | | Sheet 4 of 4 | |