PA-066 Used Heavy Equipment Tire Trough
Standard Drawings Folder

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 HAZARD EXISTS.

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 COMMERCIALLY 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.

PIPE AND FITTINGS SHALL COMFORM TO THE FOLLOWING:

TYPE OF PIPE	APPLICABLE SPECIFICATION
THROUGH CONCRETE AND INSIDE TROUGH:	
PVC:	ASTM D-1785, ASTM D-2241 (SDR 26 OR LESS), ASTM D-2665
OUTSIDE OF TROUGH: (ANY OF THE ABOVE OR)	
PVC:	ASTM D-2740, ASTM D-2672
	ASTM D-2241 (SDR 35 OR LESS)
PE:	ASTM D-2104, ASTM D-2239, ASTM D-3035, ASTM D-2447, ASTM D-2737
PRESSURE PIPE FITTINGS:	
PVC:	ASTM D-2466, ASTM D-2467
	ASTM D-2464, ASTM D-3036
PE:	ASTM D-2611, ASTM D-2610, ASTM D-2609, ASTM D-3261, ASTM D-2683
ABS:	ASTM D-2468, ASTM D-2469, ASTM D-2465

NOTE: OTHER PIPE AND FITTINGS CONFORMING TO PENNSYLVANIA TECHNICAL GUIDE STANDARDS MAY BE USED.

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

_____ COUNTY, PENNSYLVANIA

USED HEAVY EQUIPMENT TIRE TROUGH

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