



ISOMETRIC SECTION

Not to Scale

NOTES:

1. Reinforced concrete shall conform to Missouri Construction Specification 750, Reinforced Concrete.
2. Weepholes for drain through the wall shall be formed by 1/2 inch diameter PVC pipe, 8 inches long. Weepholes shall be 4 inches above the floor and spaced on 12 inch centers around the outside of the box inlet.
3. If needed, headwall extensions shall be added on both sides to ensure the headwalls will extend a minimum of 2 feet into the soil. Headwall extension to be the same height and thickness as headwall. Reinforcing steel to be #4 bars at 8 inch c.c. in both directions & located in the center of the wall. Horizontal dowel bars shall be 30 inches long, #4 bars at 8 inch centers embedded 15 inches into the headwall at the center of the wall. The 15 inch long end embedded into the headwall extension shall be covered with a piece of snug fitting hose to prevent bond with concrete and permit movement. The water stop at the joint shall be 1/4" x 6" continuous steel plate located near the center of the wall and embedded 3 inches into the headwall and headwall extension.
4. For additional details see Missouri Construction Specification 410-A, Grade Stabilization Structure.
5. Riprap shall consist of well graded rock, D₅₀ size of 9 inch, maximum size 15 inches.
6. Concrete blocks on 4 inches of drainfill may be substituted for the riprap. Fill cores of blocks with drainfill. Concrete blocks shall be 8"x8"x16" long in good condition and free of excess mortar.
7. Drainfill shall consist of gravel or concrete aggregate mixture with maximum size of 3 inches, 30 to 60% passing a 1/2 inch sieve and not more than 5% passing a No. 8 sieve.
8. A geotextile shall be wrapped around the drainfill to separate the gravel from the soil material. Geotextile shall be a filter fabric that will provide a filter to prevent migration of soil particles but is still permeable as shown in Construction Specification 753, Geotextile.
9. For details of reinforced concrete dropbox, see drawing 29-N-350 ____.

Designed	_____	Date	_____
Drawn	_____		
Checked	_____		
Approved	_____		

REINFORCED CONCRETE DROPBOX SPILLWAY



DRAFT
NOT FOR
CONSTRUCTION

File Name	_____
Drawing Name	29-N-350