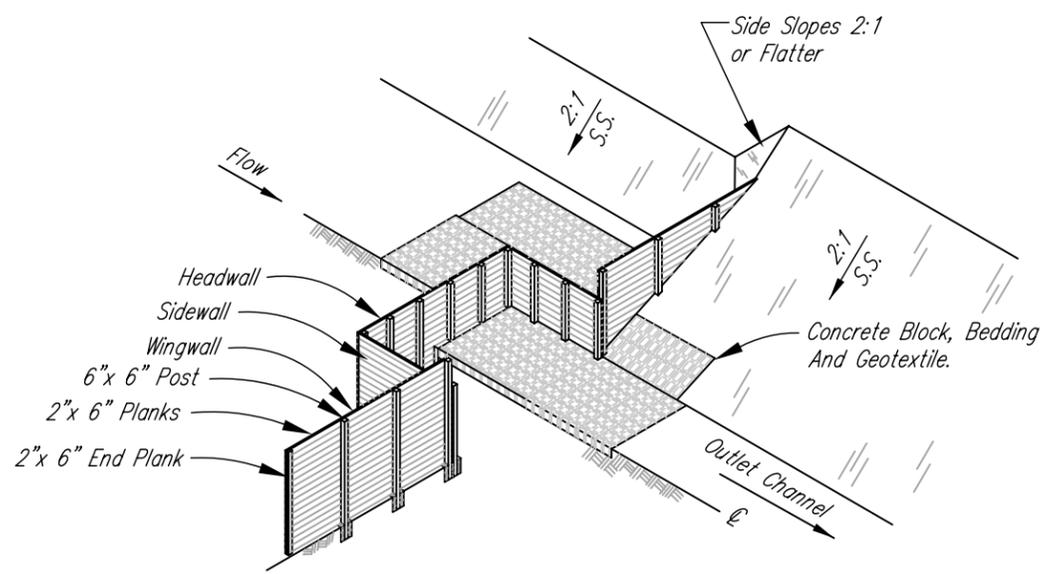


PLAN VIEW

Structure Symmetrical About Centerline  
(Looking Upstream)

NOTES

1. Lumber shall be treated for in ground contact and meet the requirements of Construction Specification MI-174, Timber Fabrication and Installation.
2. The end planks are to provide a nailing surface for the wingwall ends. End planks are at the end of both wingwalls and are not set lower than the bottom of the wall.
3. Planks shall be nailed to posts with a minimum of two 20d galvanized nails at each intersection of post and plank.
4. To set posts, a trench may be substituted for the 1'-6" dia. post holes.
5. Geotextile shall be Non-woven, Class 1, (Const. Spec. MI-165).
6. Place non-woven geotextile against planks on earthfill side (upstream).
7. Tile lines shall outlet downstream of structure.
8. Concrete Block - Concrete for blocks shall have a minimum density of 80 pcf.
9. Fill voids in blocks with MDOT 6A or 17A Coarse Aggregate or concrete grout. Formula assumes 40% void volume in blocks. Void volume in blocks varies between 30% and 50%.
10. Grade fill line upstream of structure to fit site conditions. Slopes must be 2:1 or flatter.
11. Backfill and concrete block bedding shall be clean sand with less than 5% fines. MDOT 2NS fine aggregate meets this requirement.



ISOMETRIC

QUANTITIES

| LUMBER          |      |
|-----------------|------|
| 6" x 6" x _____ | Each |
| 6" x 6" x _____ | Each |
| 2" x 6" x 12'   | Each |
| 2" x 6" x _____ | Each |
| 2" x 6" x _____ | Each |
| 2" x 6" x _____ | Each |

| OTHER   |          |
|---|----------|
| 20d Galvanized Nails<br>(31 nails/lb.)  | Lbs.     |
| 3/8" x 14" Bolts & Nuts<br>Washers (2 x Bolts)<br>(Galvanized or Stainless Steel)                       | Each     |
| Non-woven Geotextile  | Sq. Yds. |
| Sand & Gravel, Post Hole  | Cu. Yds. |
| Clean Sand, Backfill<br>See Note 11   | Cu. Yds. |
| Clean Sand, Bedding<br>See Note 11  | Cu. Yds. |
| MDOT 6A or 17A Coarse<br>Aggregate or Concrete<br>Grout, Voids in Blocks<br>(Approx. .009 cu.yd./block) | Cu. Yds. |
| Concrete Block  | Each     |
| Seeding and Mulch   | Acre     |

NOT TO SCALE

|                                       |                    |       |        |
|---------------------------------------|--------------------|-------|--------|
| MICHIGAN ENGINEERING STANDARD DRAWING |                    |       |        |
| FILE NAME                             | MI-325-B 04-05.dwg |       |        |
| STANDARD DWG. NO.                     | MI-325-B           |       |        |
| DATE                                  | 04-05              | SHEET | 1 OF 2 |

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_  
 STRUCTURAL DETAILS FOR WOOD BOX INLET  
 DROP SPILLWAY (WITH CONCRETE BLOCK)  
 Co., Michigan  
 Township, T. \_\_\_\_\_, Sec. \_\_\_\_\_  
 -R-  
  
 Natural Resources Conservation Service  
 United States Department of Agriculture  
 File Name (folder)  
 Drawing Name (file name)  
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