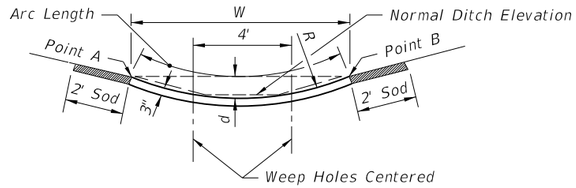
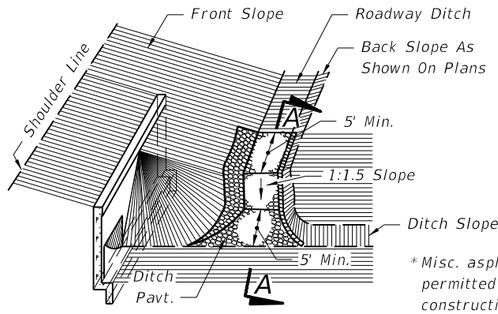



| TO REPLACE: | W | d | R | Rows Of Weep Holes | Arc Length |
|---|---|---|---|---|---|
| 6' Median Swale | 6' | 0.24' | 19' | 0 | 6.0' |
| | | | | | |
| 1:6 Front Slopes; 1:4 Back Slope | | | | | |
| 5' BW Ditch | 10' | 0.67' | 19' | 2 | 10.1' |
| 4' BW Ditch | 9' | 0.54' | 19' | 2 | 9.1' |
| | | | | | |
| 1:4 Front Slopes & Back Slope | | | | | |
| 5' BW Ditch | 9' | 0.74' | 14' | 2 | 9.2' |
| 4' BW Ditch | 8' | 0.58' | 14' | 1 (in center) | 8.1' |

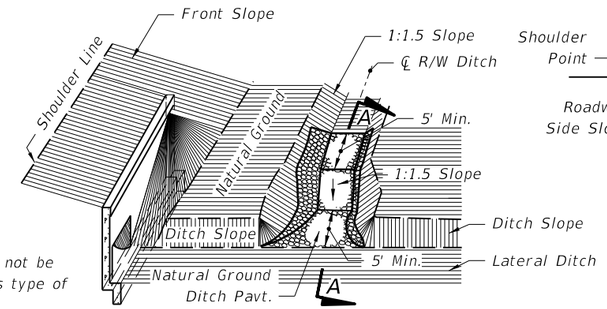
For use only where side slopes are 1:4 or flatter. Point "A" and "B" are to be the same elevation and should be used to locate the paved section.

## ALTERNATE DITCH PAVEMENT

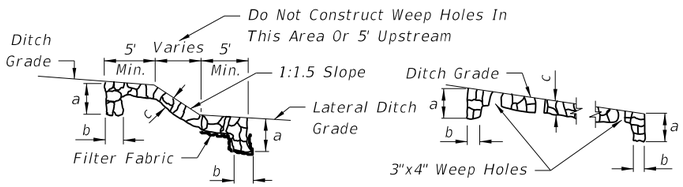



*Misc. asphalt will not be permitted for this type of construction.

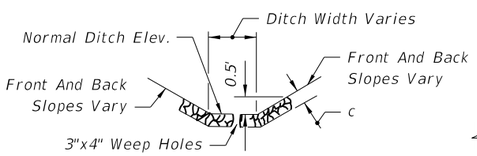
## JUNCTION OF ROADWAY DITCH* AND LATERAL DITCH




## JUNCTION OF R/W DITCH* AND LATERAL DITCH



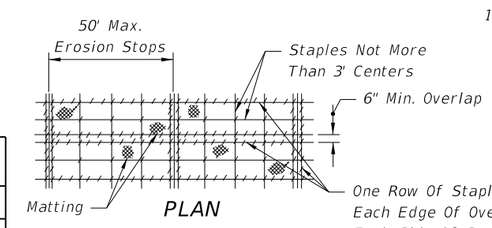

## SECTION AA



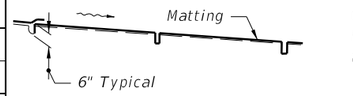

## TYPICAL SECTION

## PROFILE OF DITCH PAVEMENT AT LOCATIONS OTHER THAN JUNCTION WITH LATERAL DITCH

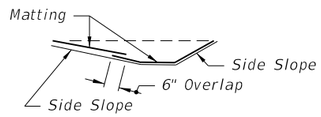
| DITCH PAVEMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pavement Type | Dimensions | | | Payment Unit | Basis Of Estimate | Filter Fabric Type | Velocity Range | References & Remarks |
| | a | b | c | | | | | |
| Concrete | 24" | 6" | 3" | SY | SY | D-6 | Low-High | Section 524 of the Standard Specifications. |
| Miscellaneous Asphalt | 24" | 12" | 4" | TN | 0.2 TN/SY | None | Low-Moderate | Section 339. |
| Riprap (Sand-Cement) | 24" | 12" | 4" | CY | 0.11 CY/SY | D-4 | Low-Moderate | Section 530. Grouting of joints required. |
| Riprap (Ditch Lining) | | | | TN | TN | D-2 | Moderate-High | Section 530. |




## PLAN

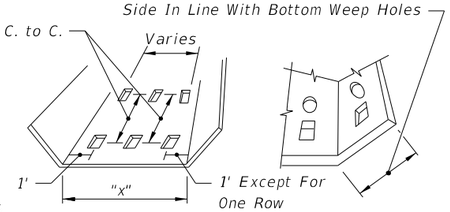



## LONGITUDINAL SECTION




## SECTION MATTING FOR DITCH

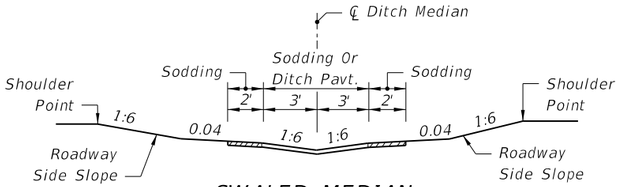
When Width Is Greater Than 4', Const. Weep Holes Half-Way Up The Side In Line With Bottom Weep Holes



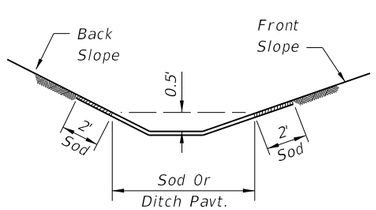

When "x"= 1' To 4' Const. 1 Row (Centered)
"x"= 5' To 7' Const. 2 Rows
"x"= 8' To 12' Const. 3 Rows
"x"= 13' To 17' Const. 4 Rows
"x"= 18' To 22' Const. 5 Rows

Note: All weep holes to be 3"x4" rectangle or 4" or 5" dia. circle hole. ½ cu. ft. (12" x 12" x 6") of No. 6 aggregate to be placed under each hole. 1 sq. ft. of galv. wire mesh (¼" openings) shall be placed between the aggregate and the concrete. Cost of holes, aggregate and wire mesh to be included in the cost of ditch pavement.

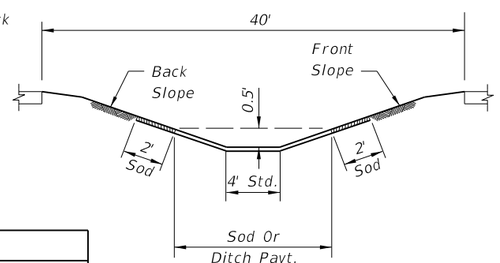
## WEEP HOLE ARRANGEMENT



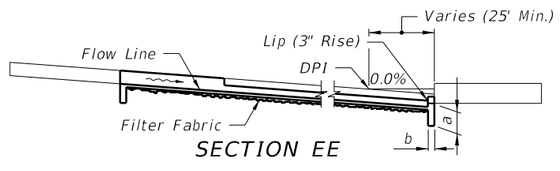

## SWALED MEDIAN (No Weep Holes)



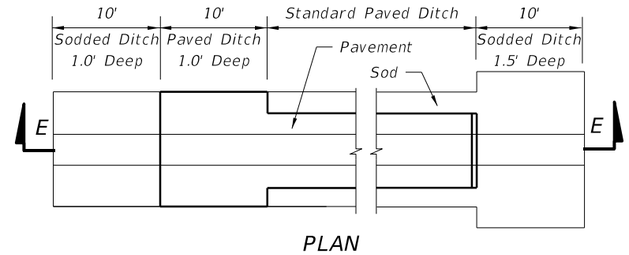

## ROADWAY SIDE DITCH




## 40' MEDIAN




## SECTION EE




## PLAN

## PAVED DITCH END TREATMENT

## GENERAL NOTES

1. Type of ditch pavement shall be as shown on plans.
2. In concrete ditch pavement, contraction joints are to be spaced at 25' maximum intervals, or as directed by the Engineer. Contraction joints may be either formed (construction joint) or tooled. No open joints will be permitted in concrete ditch pavement.

   Expansion joints with ½" preformed joint filler shall be constructed at all inlets, endwalls, and at intervals of not more than 200'.
3. Lip at end of ditch pavement shall normally be located downstream of DPI or on flatter grades where there is a decrease in ditch velocity.
4. Toewalls are to be used with all ditch paving. A toewall is not required adjacent to drainage structures.
5. When directed by the Engineer, weep hole spacing may be reduced to 5' minimum.
6. For junction of R/W ditch spillway and lateral ditch, sides of paving to be 1' high minimum.
7. For ditch pavements requiring filter fabric, the fabric shall be placed directly beneath the pavement for the entire length and width of the pavement. When weep holes with aggregate are used, the filter fabric shall be placed below the aggregate to form a mat continuous with or underlapping the pavement fabric. (See Index No. 199 for fabric type and application).
8. Ditch pavement requiring reinforcement shall be detailed in the plan.
9. Cost of plastic filter fabric to be included in the contract unit price for ditch pavement.
10. Sodding to be paid for under contract unit price for Performance Turf, SY

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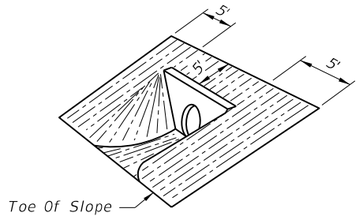
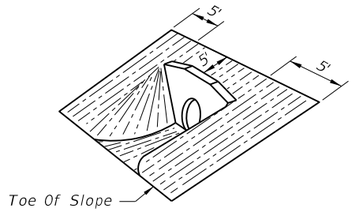
| LAST REVISION 07/01/07 | REVISION | DESCRIPTION: | FDOT 2014 DESIGN STANDARDS | DITCH PAVEMENT AND SODDING | INDEX NO. 281 | SHEET NO. 1 of 2 |
|---|---|---|---|---|---|---|

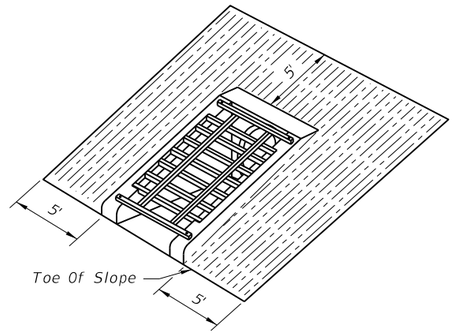



Note: Sodding quantities for each endwall to be determined by the designer from this detail.

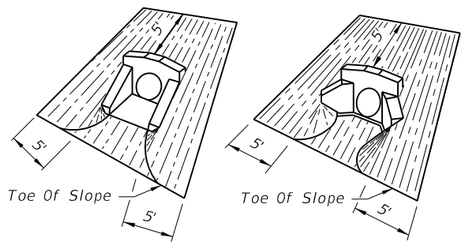
(EXCEPT INDEX NO. 250)
STRAIGHT ENDWALL




STRAIGHT ENDWALL
INDEX NO. 250

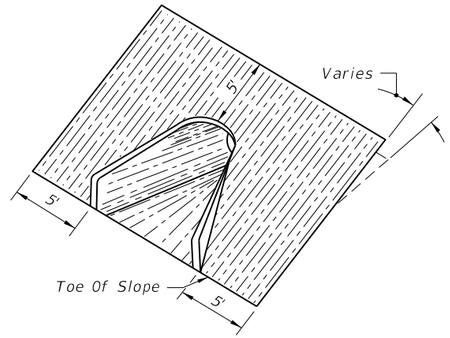



U-TYPE ENDWALL
INDEX NO. 261




U-TYPE WINGS 45° WINGS

WINGED ENDWALLS
INDEX NO. 266

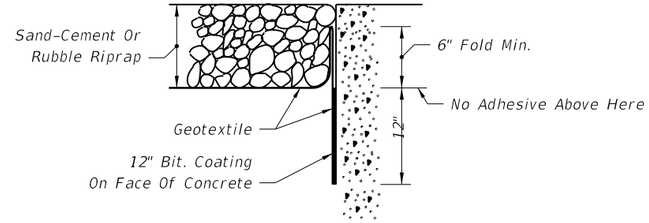



FLARED END SECTION
INDEX NO. 270

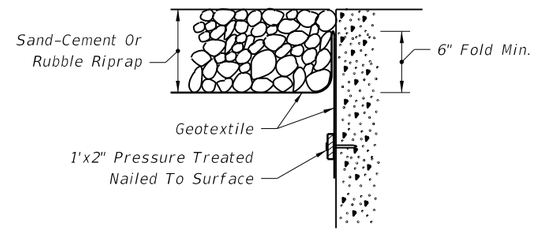
SOD QUANTITIES (SY)

| PIPE SIZE | INDEX NO. 250 | | | | | | | | | | | | INDEX NO. 261 | | | | INDEX NO. 266 | | | | INDEX NO. 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SLOPE | | | | | | | | | | | | SLOPE | | | | SLOPE | | | | ALL SLOPES |
| | 1:2 | | | 1:3 | | | 1:4 | | | 1:6 | | | 1:2 | 1:3 | 1:4 | 1:6 | 1:2 | 1:3 | 1:4 | 1:6 | |
| | PIPES | | | | | | | | | | | | PIPES | | | | PIPES | | | | PIPES |
| | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12" | | | | | | | | | | | | | | | | | 14 | 15 | 18 | 22 | 10 |
| 15" | 19 | 21 | 24 | 22 | 26 | 29 | 26 | 30 | 33 | 34 | 38 | 43 | 13 (15) | 16 | 17 | 23 | 15 | 17 | 20 | 25 | 11 |
| 18" | 21 | 24 | 27 | 25 | 29 | 33 | 30 | 34 | 38 | 39 | 44 | 50 | 14 (16) | 17 | 19 | 25 | 16 | 18 | 22 | 28 | 11 |
| 21" | | | | | | | | | | | | | | | | | | | | | 12 |
| 24" | 26 | 30 | 34 | 32 | 37 | 42 | 38 | 44 | 50 | 50 | 58 | 66 | 15 (17) | 19 | 21 | 28 | 19 | 22 | 26 | 34 | 14 |
| 27" | | | | | | | | | | | | | | | | | | | | | 15 |
| 30" | 31 | 37 | 42 | 39 | 46 | 53 | 46 | 55 | 63 | 62 | 74 | 85 | 17 (18) | 21 | 24 | 32 | 21 | 25 | 30 | 40 | 16 |
| 36" | 37 | 44 | 52 | 46 | 56 | 65 | 56 | 67 | 79 | 76 | 91 | 107 | | | | | 24 | 29 | 35 | 47 | 18 |
| 42" | 43 | 53 | 62 | 55 | 67 | 79 | 67 | 82 | 96 | 91 | 111 | 132 | | | | | 27 | 32 | 39 | 54 | 19 |
| 48" | 50 | 62 | 73 | 64 | 79 | 93 | 78 | 97 | 115 | 108 | 133 | 158 | | | | | 30 | 36 | 44 | 61 | 21 |
| 54" | 57 | 71 | 85 | 74 | 92 | 110 | 91 | 113 | 136 | 126 | 157 | 188 | | | | | | | | | 21 |
| 60" | | | | | | | | | | | | | | | | | | | | | 22 |
| 66" | | | | | | | | | | | | | | | | | | | | | 25 |
| 72" | | | | | | | | | | | | | | | | | | | | | 26 |
| | | | | | | | | | | | | | () Endwall With Baffles | | | | | | | | |

SOD




BONDED OPTION




NAILED OPTION

Note: Either option may be used unless otherwise called for in the plans.

GEOTEXTILE PLACEMENT AT CONCRETE STRUCTURE