

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.

## SECTION MATTING FOR DITCH

Front Slope

JUNCTION OF R/W DITCH\*

AND LATERAL DITCH

3"x4" Weep Holes —

Normal Ditch Elev.

Front And Back

Slopes Vary

**PLAN** 

Matting -

LONGITUDINAL SECTION

— 6" Overlap

50' Max. Erosion Stops

6" Typical

Note: All weep holes to be 3"x4" rectangle or 4" or 5" dia. circle hole.  $V_2$  cu. ft. (12" x 12" x 6") of No. 6 aggregate to be placed under each hole. 1 sq. ft. of galv. wire mesh ( $\frac{1}{4}$ " openings) shall be placed between the aggregate and the ditch pavement. Cost of holes, aggregate and wire mesh to be included in the cost of ditch navement.

10' C. to C.

Staples Not More Than 3' Centers

6" Min. Overlap

One Row Of Staples

Each Edge Of Overlaps,

Each Side Of Stops And

On Outer Edges At Not

More Than 18" Centers

(Typical)

5' Min.

Ditch Width Varies

Front And Back

### WEEP HOLE ARRANGEMENT

When Width Is Greater Than 4',

One Row

When "x"= 1' To 4' Const. 1 Row (Centered)

"x"= 5' To 7' Const 2 Rows

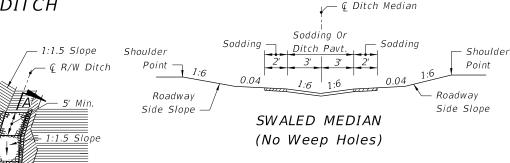
"x"= 8' To 12' Const. 3 Rows

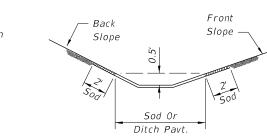
"x"= 13' To 17' Const. 4 Rows

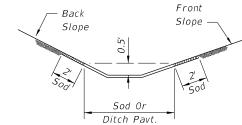
"x"= 18' To 22' Const. 5 Rows

Const. Weep Holes Half-Way Up The

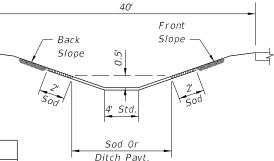
Side In Line With Bottom Weep Holes







## ROADWAY SIDE DITCH

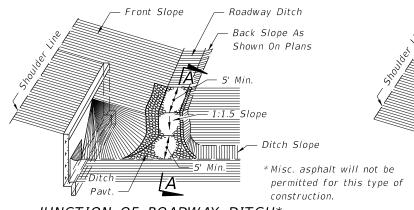


# Ditch Pavt.

40' MEDIAN

\* Filter Fabric Required.

## ALTERNATE DITCH PAVEMENT



JUNCTION OF ROADWAY DITCH\* AND LATERAL DITCH

Do Not Construct Weep Holes In This Area Or 5' Upstream Ditch 5' Varies 5' Grade · Min. - 1·1 5 Slone Ditch Grade 3"x4" Weep Holes

SECTION AA

DESCRIPTION:

# PROFILE OF DITCH PAVEMENT

# AT LOCATIONS OTHER THAN JUNCTION WITH LATERAL DITCH

TABLE 1: DITCH PAVEMENT													
Pavement Type	Din	nensi	ons	Payment	Basis Of	Filter Fabric	Velocity	References & Remarks					
r aveillent Type		b	С	Unit	Estimate	Туре	Range	nererences & hemarks					
Concrete	24"	6"	3"	SY	SY	D-4*	Low-High	Specification 524					
Miscellaneous Asphalt	24"	12"	4"	TN	0.2 TN/SY	None	Low-Moderate	Specification 339					
Riprap (Sand-Cement)	24"	12"	4"	CY	0.11 CY/SY	D-4*	Low-Moderate	Specification 530, Grouting of joints required					
Riprap (Ditch Lining)				TN	TN	D-2*	Moderate-High	Specification 530					

**REVISION** 11/01/17

**FDOT** 

FY 2019-20 STANDARD PLANS

TYPICAL SECTION

# DITCH PAVEMENT AND SODDING

INDEX

SHEET

524-001

— Varies (25' Min.)

10'

Sodded Ditch

1.5' Deep

Lip (3" Rise)

Standard Paved Ditch

Pavement

Sod

SECTION EE

PLAN

GENERAL NOTES

PAVED DITCH END TREATMENT

1. Type of ditch pavement shall be as shown on plans.

permitted in concrete ditch pavement.

more than 200'.

decrease in ditch velocity.

reduced to 5' minimum.

fabric, if present.

price for ditch pavement.

Performance Turf, SY

the plans.

paving to be 1' high minimum.

fabric requirements and application.

2. In concrete ditch pavement, contraction joints are to be

(construction joint) or tooled. No open joints will be

3. Lip at end of ditch pavement shall normally be located

not required adjacent to drainage structures.

spaced at 25' maximum intervals, or as directed by the Engineer. Contraction joints may be either formed

Expansion joints with  $\frac{1}{2}$ " preformed joint filler shall be

constructed at all inlets, endwalls, and at intervals of not

downstream of DPI or on flatter grades where there is a

4. Toewalls are to be used with all ditch paving. A toewall is

5. When directed by the Engineer, weep hole spacing may be

6. For junction of R/W ditch spillway and lateral ditch, sides of

7. For ditch pavements requiring filter fabric (See Table 1) place

the filter fabric directly beneath the pavement for the entire

length and width of the pavement. See Specification 985 for

When weep holes with aggregate are used, place filter fabric

below the aggregate to form a mat continuous with the pavement filter fabric or underlapping the pavement filter

9. Ditch pavement requiring reinforcement shall be detailed in

11. Sodding to be paid for under contract unit price for

10. Cost of plastic filter fabric to be included in the contract unit

Flow Line

Sodded Ditch Paved Ditch

10'

1.0' Deep

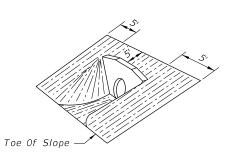
10'

1.0' Deep

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

(EXCEPT INDEX 430-030)

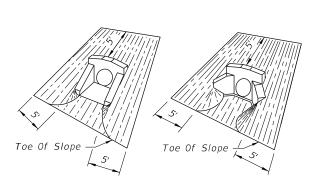
STRAIGHT ENDWALL



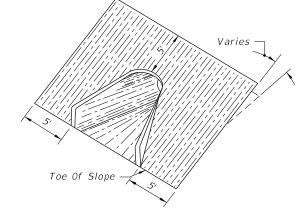
Toe Of Slope

STRAIGHT ENDWALL INDEX 430-030

U-TYPE ENDWALL INDEX 430-011



U-TYPE WINGS 45° WINGS WINGED ENDWALLS INDEX 430-040



FLARED END SECTION INDEX 430-020

TABLE 2: SOD QUANTITIES (SY)																						
		INDEX 430-030											INDEX 430-011				INDEX 430-040				INDEX 430-020	
PIPE		SLOPE												SLOPE				SLO	OPE	ALL SLOPES		
SIZE		1:2 1:3 1:4							1:6			1:2	1:3	1:4	1:6	1:2	1:3	1:4	1:6	ALL SLOTES		
						PIP	ES	ĒS.					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 PLACEMENT AT PIPE/CULVERT END TREATMENTS

REVISION 11/01/17

DESCRIPTION:

FY 2019-20 STANDARD PLANS Sand-Cement Or

Sand-Cement Or Rubble Riprap

Rubble Riprap

12" Bituminous Coating

On Face Of Concrete

1"x2" Pressure Treated Timber Nailed To Surface

BONDED OPTION

NAILED OPTION

FILTER FABRIC PLACEMENT AT CONCRETE STRUCTURE

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

INDEX *524-001* 

SHEET

6" Fold Min.

No Adhesive Above Here