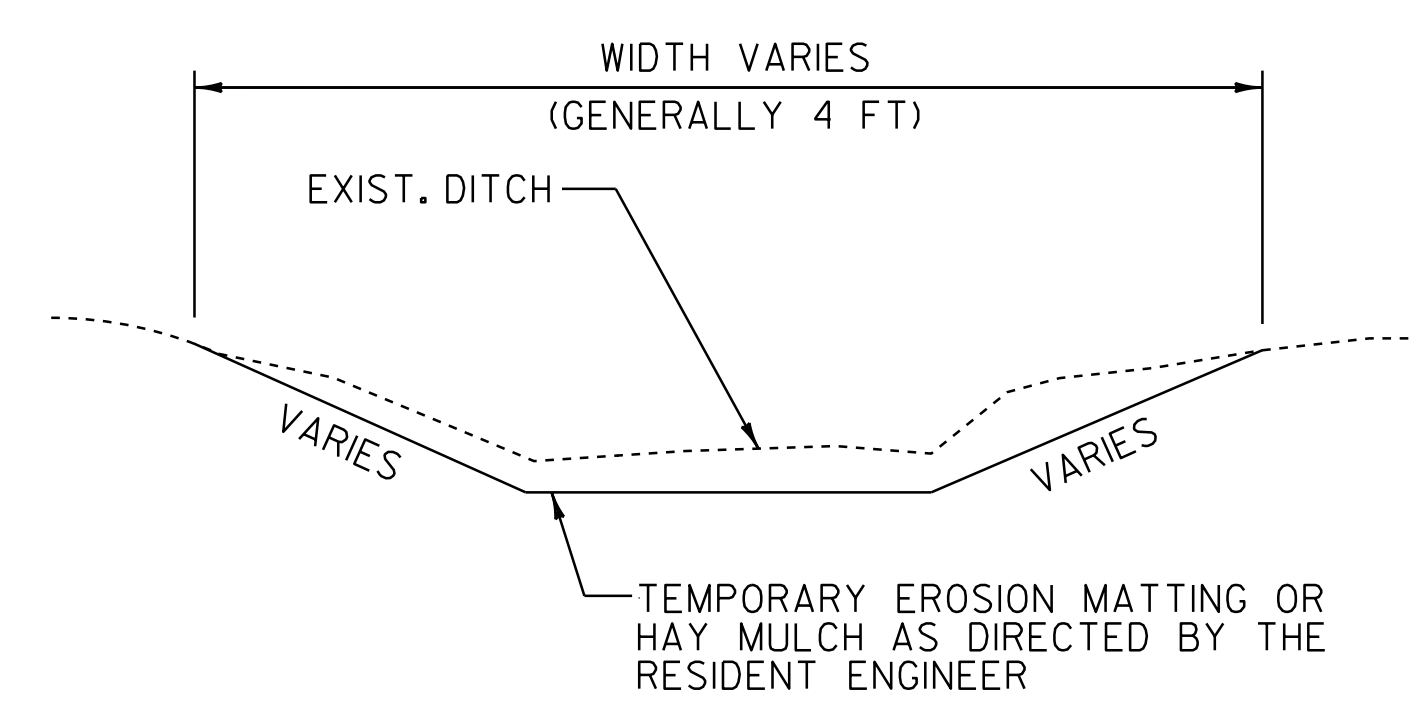
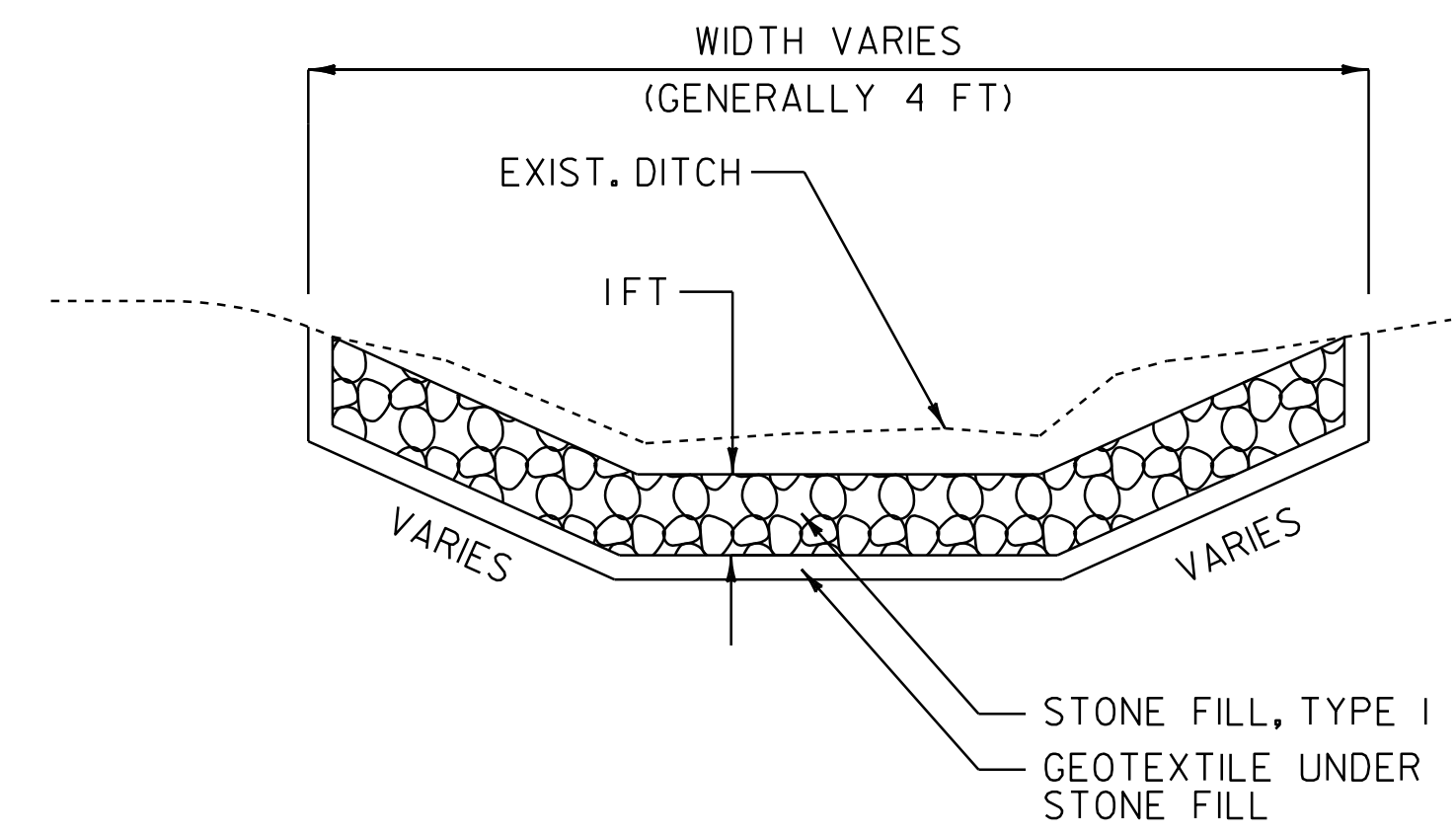


LOCATION				FEET OF DITCHING				MISC. ITEMS				REMARKS
SITE	MM	MM	POS.	PERCENT GRADE				STONE FILL, TYP. I	GEO. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10	>10					
HARTLAND-NORWICH				LF	LF	LF		CY	SY	LB	SY	
<b>NORTHBOUND:</b>												
	66.195	74.762	LT/RT		1000	200		30	140	60	444	AS DIRECTED BY RESIDENT ENGINEER
<b>SOUTHBOUND:</b>												
	66.453	76.450	LT/RT		1000	200		30	140	60	444	AS DIRECTED BY RESIDENT ENGINEER
<b>GUTTERS</b>												
<b>I-91 NORTHBOUND:</b>												
	66.796	66.120	RT		10.6	14.8		48.9	31.8		11X26	20' X 20' SLOPE EROSION
	67.936	66.370	RT		8.76	1.5		6.7	26.9		11X22	4' X 10' REMOVE EXIST. GUTTER
	68.116	68.120	RT		10.0	1.5		6.7	30.0		9X30	4' X 10' REMOVE EXIST. GUTTER
	69.637	69.635	RT		8.0	1.9		7.8	24.0		9X24	5' X 10' REMOVE EXIST. GUTTER
	69.750		LT			5.2		21.8				5' X 28' REMOVE EXIST. GUTTER
	72.711		RT		6.67	3.7		15.6	20	9		5' X 20' REMOVE EXIST. GUTTER
	73.152		RT		4.41	3.7		15.6	13.2		7X17	5' X 20' REMOVE EXIST. GUTTER
	73.425					8.3		24.9				9.75X23 REMOVE EXIST GUTTER
<b>I-91 SOUTHBOUND:</b>												
	66.488	410	LT		8.96	2.2		10	26.9		11X22	4' X 15' REMOVE EXIST. GUTTER
	67.588		LT		8.3	3.9		15	22.2		8X25	7' X 15' REMOVE EXIST. GUTTER
	69.880		RT			5.2		21.8				5' X 28' REMOVE EXIST. GUTTER
	69.881		LT			2.6		10				7' X 10' SLOPE EROSION
	70.044		LT			1.3		5.3				6' X 6' SLOPE EROSION
	75.443		LT		7.5	1.5		6.7	22.6		7X29	4' X 10' REMOVE EXIST. GUTTER
	67.444		LT			8.6		22.2				8' X 25' REMOVE EXIST GUTTER
	66.552		LT			2.0		0.0				SLOPE EROSION
<b>EXIT 10</b>												
RAMP F	0.037		RT		10.18	2.5		8.4	30.55		11X25	4' X 17' REMOVE EXIST. GUTTER
	0.071		RT		9.26	3.3		10.7	27.78		10X25	4' X 22' REMOVE EXIST. GUTTER
	0.152		RT		10.11	0.7		3.3	30.33		10.5X26	4' X 5' REMOVE EXIST. GUTTER
	0.234		RT		8.0	1		4	24.0		9X24	4' X 7' REMOVE EXIST. GUTTER
<b>EXIT 11</b>												
RAMP A	0.302		RT		8.36	1.9		6.3	20.06		9.5X19	3' X 17' REMOVE EXIST. GUTTER
<b>EXIT 12</b>												
RAMP C	0.106		RT		8.0	18.5		55.6	24.0			20' X 25' SLOPE EROSION
RAMP D	0.083		RT									12' X 18' STONE SWALE
<b>EXIT 13</b>												
RAMP B	0.109		RT		8.5	3.9		12.8	24.0		8X27	5' X 21' REMOVE EXIST. GUTTER
<b>ITEM 621.50 MTS, FLARED</b>												
									14	850		
<b>ITEM 621.51 MTS, TANGENT</b>												
									0.8	50		
<b>ITEM 621.60 ANCHOR FOR STEEL BEAM RAIL</b>												
									10.7	650		
<b>EXIT 10</b>												
RAMP G	XX.XX	LT			9.0			27.0				9X27 REMOVE EXIST GUTTER
	XX.XX	LT			10.5			31.5				10.5X27 REMOVE EXIST GUTTER
<b>EXIT 11</b>												
RAMP B	XX.XX	RT			5.0			20.0				9X20 REMOVE EXIST GUTTER
	XX.XX	RT			5.55			22.22				8X25 REMOVE EXIST GUTTER
<b>PROJECT SUBTOTALS</b>					2000	400		140.8	573	142.1	2438	
<b>ROUNDINGS</b>								4.2	2	7.9	12	
<b>PROJECT TOTALS</b>					2000	400		145	575	150	2450	
					184.8	546		97	2,973			



**DITCH DETAIL < 2.5 PERCENT**



**DITCH DETAIL > 2.5 PERCENT**

**NOTES**

- GRADES LESS THAN 1 PERCENT SHALL USE ITEM 651.15, SEED AND ITEM 651.25, HAY MULCH. GRADES BETWEEN 1 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE RESIDENT ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE RESIDENT ENGINEER.
- PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

**SEEDING FORMULA**

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

**SEEDING NOTES**

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- HAY MULCH: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

**DITCH CLEANING SHEET**

PROJECT NAME:	HARTLAND-NORWICH	FILE NAME:	/pave/06a202/p06a202.dgn	PLOT DATE:	21-NOV-2012 11:45
PROJECT NUMBER:	IM 091-1(59)	PROJECT LEADER:	PTS	DRAWN BY:	WWG
		DESIGNED BY:	NLL	CHECKED BY:	PTS
		IPARM FILE NAME:	06A202_25	SHEET	25 OF 60

NOT TO SCALE