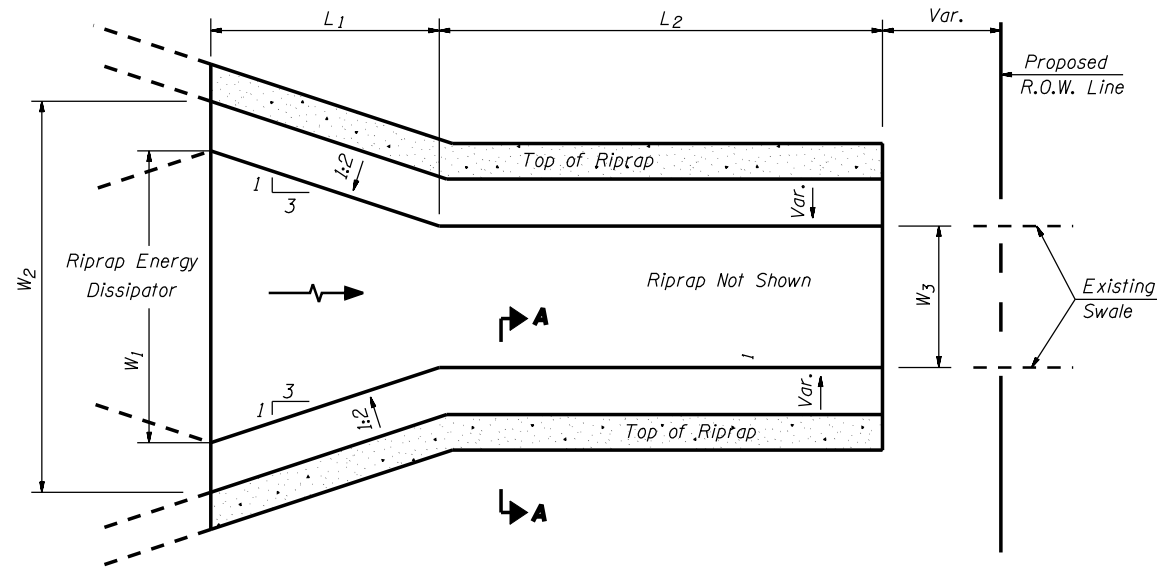
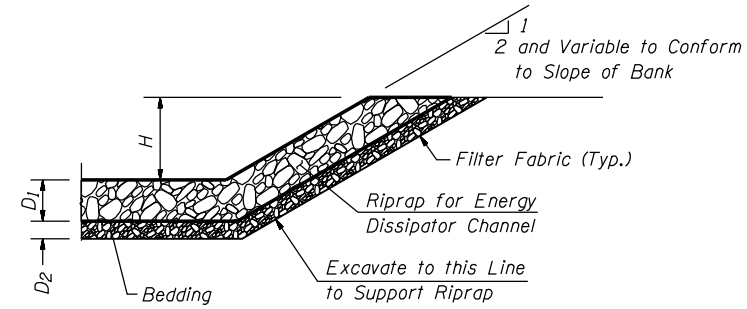


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	293
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



**RIPRAP ENERGY DISSIPATING CHANNEL**



**SECTION A-A**

NOTE:  
All Slope Ratios are Expressed as Units of Vertical Displacement to Units of Horizontal Displacement (V:H)

STRUCTURE SIZE	STATION	L <sub>1</sub> LENGTH	L <sub>2</sub> LENGTH	D <sub>1</sub> RIPRAP THICKNESS	D <sub>2</sub> BEDDING THICKNESS	W <sub>1</sub> DISSIPATOR WIDTH	W <sub>2</sub> BASIN WIDTH	W <sub>3</sub> CHANNEL WIDTH	H CHANNEL DEPTH	AREA	RIPRAP	QUANTITY
		FT.	FT.	FT.	IN.	FT.	FT.	FT.	FT.	SQ. YD.	SIZE	TON
48" PIPE	1190+80, RT.	34.7	5.0	2.4	8	26.1	33.3	3.0	3.8	136.09	RR5	190.5
48" PIPE	1196+45, RT.	20.7	22.0	1.8	6	20.8	30.4	7.0	4.4	144.89	RR4	152.1
42" PIPE	1222+82, RT.	20.0	20.0	1.8	6	16.3	23.5	3.0	3.8	105.53	RR4	110.8
3 - 60" PIPES	1247+00, RT.	64.4	15.0	2.4	8	52.9	66.9	10.0	5.5	467.91	RR5	655.1
2 - 60" PIPES	1253+60, RT.	62.9	0.0	2.4	8	53.9	59.9	12.0	3.5	345.32	RR5	483.4
6' X 6' BOX EXT	1268+63, RT.	57.9	6.0	2.4	8	44.6	49.8	6.0	3.3	276.68	RR5	387.4
7' X 8' DBL BOX	1289+80, RT.	54.5	0.0	2.4	8	44.3	53.9	8.0	4.4	283.70	RR5	397.2
8' X 12' DBL BOX	1318+54, RT.	75.8	10.0	3.4	12	62.5	84.5	12.0	7.5	661.70	RR7	1312.4
54" PIPE	1349+83, RT.	18.8	35.0	2.4	8	20.5	30.1	8.0	4.4	180.53	RR5	252.7
60" PIPE	1368+00, RT.	48.0	10.0	2.4	8	36.0	42.4	4.0	3.6	219.51	RR5	307.3
2 - 60" PIPES	1380+16, RT.	100.4	0.0	2.4	8	76.9	85.3	10.0	4.1	699.97	RR5	980.0
2 - 60" PIPES	1389+10, RT.	38.0	10.0	2.4	8	31.3	43.3	6.0	5.0	209.54	RR5	293.4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIPRAP ENERGY DISSIPATING CHANNEL**

SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC