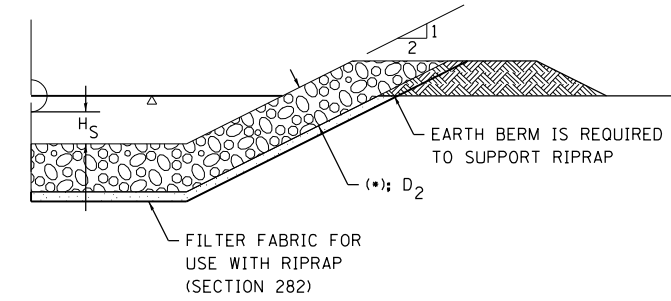
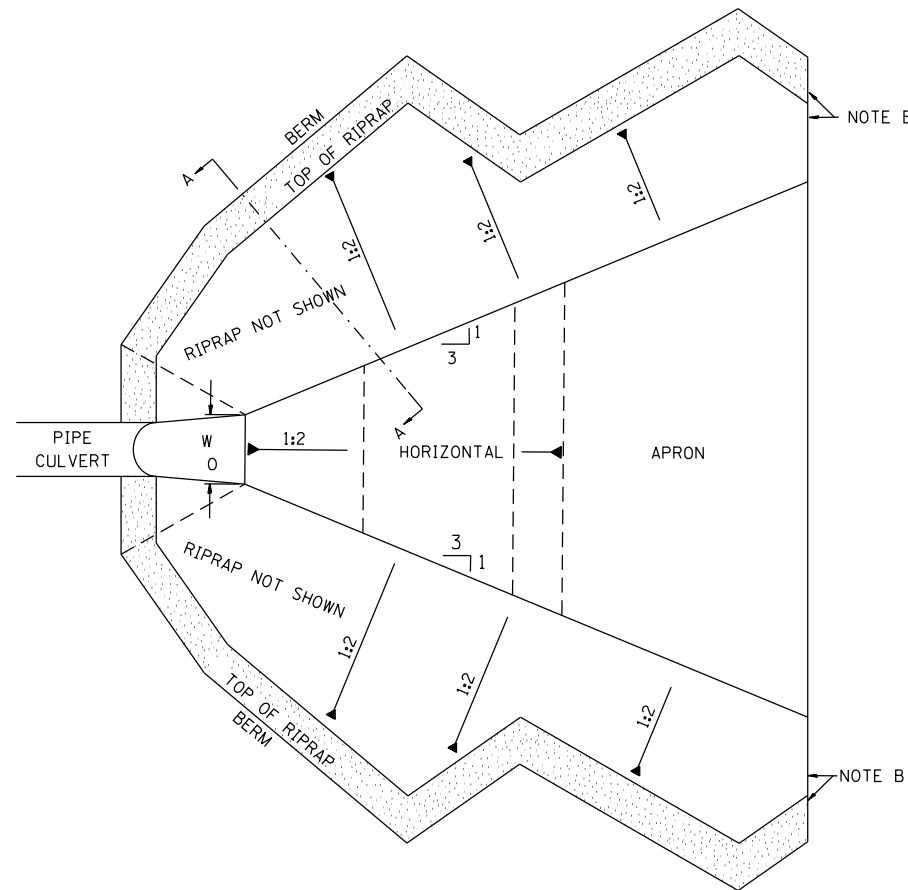


FLOWLINE SECTION



SECTION A-A



TOP VIEW

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

NOTE B: WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL

CULVERTS

LOCATION	STATION	EXTENSION / NEW CULVERT	W O	L P	L A	H S	H B	RIPRAP			CLASS RIPRAP	LINING LENGTH
								(*) D ₁	(*) D ₂	(**) D ₃		
IL ROUTE 3	1997+84.00	RT NEW CULVERT						1.33		0.5	A4	30
	2011+03.00	RT NEW CULVERT						1.33		0.5	A4	25
	2014+87.00	LT NEW CULVERT						1.33		0.5	A4	35
	2017+00.00	LT EXTENSION	7.0	21.0	9.0	1.8	6.0	2.5	2.0	0.5	A4	
	2028+31.41	LT EXTENSION	8.0	24.0	8.0	1.3	7.0	2.5	2.0	0.5	A4	
	2042+74.31	LT EXTENSION	6.0	35.0	15.0	3.5	5.0	3.0	2.5	0.7	A5	
	2045+73.96	LT EXTENSION	5.0	40.0	18.0	3.5	5.0	3.0	2.5	0.7	A5	
	2074+55.48	LT EXTENSION	7.0	62.0	31.0	6.2	7.0	2.5	2.0	0.5	A4	
	2089+49.94	LT EXTENSION	6.0	18.0	6.0	1.2	5.0	2.5	2.0	0.5	A4	
	2103+18.58	LT EXTENSION	2.7	8.0	2.7	0.4	2.1	2.0	1.0	0.4	A3	25
	2110+65.00	LT EXTENSION						1.33		0.5	A4	30
	2113+92.49	LT NEW CULVERT	3.0	12.0	4.0	1.0	3.0	2.0	1.0	0.4	A3	
	2115+79.00	LT NEW CULVERT						1.33		0.5	A4	30
	2130+31.83	LT EXTENSION	6.0	18.0	6.0	1.0	4.0	2.5	2.0	0.5	A4	
	2167+30.00	LT EXTENSION						1.33		0.5	A4	30
GALL RD/MOORE ST	503+88.00	RT NEW CULVERT						1.33		0.5	A4	30
N MOORE ST	606+33.97	LT EXTENSION	10.0	30.0	11.0	2.2	6.0	2.5	2.0	0.5	A4	
N MARKET ST	201+98.00	RT NEW CULVERT						1.33		0.5	A4	30

STORM SEWERS

LOCATION	STATION	TAILWATER						RIPRAP		CLASS RIPRAP	LINING LENGTH
								(*) D ₁	(**) D ₃		
IL ROUTE 3	2020+25.00	LT MIN						1.33	0.5	A4	15
	2029+40.00	RT MIN						1.33	0.5	A4	15
	2030+00.00	LT MAX						1.33	0.5	A4	15
	2042+00.00	LT MIN						1.00	0.4	A3	10
	2046+50.00	RT MIN						1.33	0.5	A4	20
	2073+50.00	LT MIN						1.00	0.4	A3	10
	2080+50.00	LT MIN						1.00	0.4	A3	16
	2103+25.00	RT MAX						1.00	0.4	A3	12
	2111+35.00	RT MIN						1.00	0.4	A3	10
	2166+25.00	RT MIN						1.00	0.4	A3	10
N MARKET ST	201+00.00	LT MAX						1.33	0.5	A4	25
	202+50.00	RT MAX						1.33	0.5	A4	30

LAST SAVED = 1/25/2013
PEN TABLE = V:\A\141
PLOT DRIVER = pdfnolayers.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
I:\1001100\Phase II - 76817\Cad\T\Plans\299_0876817-sht-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 1/25/2013 3:35:05 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORNER &
SHIRIN, INC.
ENGINEERS

MISCELLANEOUS DETAILS
RIPRAP ENERGY DISSIPATOR

SCALE: NONE

SHEET NO. 12 OF 22 SHEETS STA. TO STA.

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	68-WRS-1	MONROE	760	476
CONTRACT NO. 76817				
ILLINOIS FED. AID PROJECT				