REINFORCED CONCRETE PIPE										
				S	INGLE PIPE	D	OUBLE PIPE	TRIPLE PIPE		
D	Н	R	S	G	CU.YDS.CONC.	G	CU.YDS.CONC.	G	CU.YDS.CONC.	
					2 ANCHORS	G	2 ANCHORS	5	2 ANCHORS	
42"	3'-3	2'-7½''	6'-3	5'-3	2.5	11'-6	5.5	17'-9	8.6	
48''	3'-5	2'-11	6'-10	5'-10	2.8	12'-8	6.2	19'-6	9.6	
54"	3'-7	3'-2½''	7'-8	6'-5	3.2	14'-1	7.1	21'-9	11.1	
60''	3'-9	3'-6	8'-6	7'-0	3.5	15'-6	8.0	24'-0	12.5	
66''	3'-11	3'-9½''	9'-4	7'-7	3.9	16'-11	9.0	26'-3	14.1	
72''	4'-1	4'-1	10'-2	8'-2	4.3	18'-4	10.0	28'-6	15.7	
78''	4'-3	4'-42''	11'-0	8'-9	4.7	19'-9	11.0	30'-9	17.3	
84"	4'-5	4'-8	11'-10	9'-4	5.1	21'-2	12.1	33'-0	19.0	
90''	4'-7	4'-115''	12'-8	9'-11	5.5	22'-7	13.2	35'-3	20.8	
96''	4'-9	5'-3	13'-6	10'-6	6.0	24'-0	14.3	37'-6	22.7	
102''	4'-11	5'-62''	14'-1	11'-1	6.4	25'-2	15.3	39'-3	24.2	
108''	5'-1	5'-10	14'-8	11'-8	6.9	26'-4	16.3	41'-0	25.7	
114"	5'-3	6'-12''	15'-3	12'-3	7.4	27'-6 17.3		42'-9	27.3	
120''	5'-5	6'-5	15'-10	12'-10	7.8	28'-8	28'-8 18.4		28.9	
126''	5'-7	6'-82''	16'-5	13'-5	8.3	29'-10	19.4	46'-3	30.5	
132"	5'-9	7'-0	17'-0	14'-0	8.8	31'-0	20.5	48'-0	32.2	
138"	5'-11	7'-3½''	17'-7	14'-7	9.4	32'-2	21.6	49'-9	33.9	
144"	6'-1	7'-7	18'-2	15'-2	9.9	33'-4	22.8	51'-6	35.6	

	CORRUGATED ALUMINUM ALLOY OR STEEL PIPE											
				S	INGLE PIPE	D	OUBLE PIPE	TRIPLE PIPE				
D	H	R	S	G	CU.YDS.CONC.	G	CU.YDS.CONC.	G	CU.YDS.CONC.			
					2 ANCHORS	G	2 ANCHORS		2 ANCHORS			
42"	2'-11	2'-4	5'-8	4'-8	2.1	10'-4	4.7	16'-0	7.3			
48''	3'-1	2'-7	6'-2	5'-2	2.4	11'-4	5.3	17'-6	8.2			
54''	3'-3	2'-10	6'-11	5'-8	2.7	12'-7	6.1	19'-6	9.5			
60''	3'-4	3'-1	7'-8	6'-2	3.0	13'-10	6.7	21'-6	10.5			
66''	3'-5	3'-4	8'-5	6'-8	3.2	15'-1	7.5	23'-6	11.6			
72"	3'-7	3'-7	9'-2	7'-2	3.6	16'-4	8.3	25'-6	13.0			
78''	3'-9	3'-10	9'-11	7'-8	3.9	17'-7	9.1	27'-6	14.4			
84''	3'-10	4'-1	10'-8	8'-2	4.2	18'-10	9.9	29'-6	15.6			
90"	3'-11	4'-4	11'-5	8'-8	4.5	20'-1	10.7	31'-6	16.8			
96''	4'-1	4'-7	12'-2	9'-2	4.8	21'-4	11.6	33'-6	18.4			
102"	4'-2	4'-10	12'-8	9'-8	5.1	22'-4	12.2	35'-0	19.3			
108"	4'-4	5'-1	13'-2	10'-2	5.5	23'-4	13.0	36'-6	20.6			
114"	4'-5	5'-4	13'-8	10'-8	5.8	24'-4	13.7	38'-0	21.6			
120"	4'-7	5'-7	14'-2	11'-2	6.2	25'-4	14.6	39'-6	22.9			
126"	4'-8	5'-10	14'-8	11'-8	6.5	26'-4	15.2	41'-0	23.9			
132"	4'-10	6'-1	15'-2	12'-2	6.9	27'-4	16.1	42'-6	25.3			
138"	4'-11	6'-4	15'-8	12'-8	7.3	28'-4	16.8	44'-0	26.4			
144"	5'-1	6'-7	16'-2	13'-2	7.7	29'-4	17.8	45'-6	27.8			

GENERAL NOTES

- 1. Refer to Standard Drawings E 715-SPCA-01 and E 715-SPCA-02 for single pipe anchor details.
- 2. Refer to Standard Drawings E 715-MPCA-01 and E 715-MPCA-02 for multiple pipe anchor details.

LEGEND

- D Pipe diameter
- H Anchor height
- $R\,-\,$ Dimension from anchor edge to & of pipe
- S Dimension between G of adjacent pipes
- G Overall anchor length

INDIANA DEPARTMENT OF TRANSPORTATION

CONCRETE ANCHOR **TABLE**

JANUARY 1998

STANDARD DRAWING NO.E 715-ANCH-01 DETAILS PLACED IN THIS FORMAT 11-15-99

/s/Anthony L. Uremovich 11-15-99
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi

ORIGIANLLY APPROVED

DESIGN STANDARDS ENGINEER

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE											
					SI	NGLE PIPE	DO	UBLE PIPE	TRIPLE PIPE		
SPAN	RISE	н	R	S	G	CU.YDS.CONC., 2 ANCHORS	G	CU.YDS.CONC., 2 ANCHORS	G	CU.YDS.CONC., 2 ANCHORS	
45''	29''	3'-0	2'-9	6'-6	5'-6	2.5	12'-0	5.5	18'-6	8.5	
49"	32"	3'-1	2'-112	6'-11	5'-11	2.7	12'-10	5.9	19'-9	9.2	
53"	34"	3'-2	3'-12	7'−6	6'-3	2.9	13'-9	6.4	21'-3	10.0	
60"	38"	3'-3	3'-51/2	8'-5	6'-11	3.2	13'-4	7.3	23'-9	11.3	
68"	43"	3'-5	3'-10	9'-6	7'-8	3.6	17'-2	8.3	26'-8	13.0	
76''	48"	3'-7	4-21	10'-7	8'-5	4.1	19'-0	9.4	29'-7	14.8	
83''	53''	3'-8	4'-62	11'-7	9'-1	4.5	20'-8	10.5	32'-3	16.5	
91''	58''	3'-10	4'-11	12'-8	9'-10	4.9	22'-6	11.7	35'-2	18.4	
98''	63''	4'-0	5'-3	13'-6	10'-6	5.3	24'-0	12.7	37'-6	20.1	
106"	68''	4'-2	5'-72	14'-3	11'-3	5.8	25'-6	13.7	39'-9	21.7	
113"	72"	4'-3	5'-112	14'-11	11'-11	6.2	26'-10	14.6	41'-9	23.0	
121"	77''	4'-5	6'-4	15'-8	12'-8	6.7	28'-4	15.7	44'-0	24.6	
128"	82''	4'-6	6'-8	16'-4	13'-4	7.2	29'-8	16.6	46'-0	26.1	
136"	87''	4'-8	7'-0	17'-0	14'-0	7.6	31'-0	17.6	48'-0	27.6	
143"	92''	4'-10	7'-4	17'-8	14'-8	8.1	32'-4	18.7	50'-0	29.2	
151"	97''	5'-0	7'-82	18'-5	15'-5	8.7	33'-10	19.9	52'-3	31.0	
166"	106''	5'-3	8'-5	19'-10	16'-10	9.7	36'-8	22.0	56'-6	34.4	
180"	116''	5'-6	9'-1	21'-2	18'-2	10.8	39'-4	24.3	60'-6	37.8	

CORRUGATED ALUMINUM ALLOY OR STEEL PIPE-ARCH											
	RISE	Н	R	S	sı	NGLE PIPE	DO	UBLE PIPE	TRIPLE PIPE		
SPAN					G	CU.YDS.CONC., 2 ANCHORS	G	CU.YDS.CONC., 2 ANCHORS	G	CU.YDS.CONC., 2 ANCHORS	
49''	33"	3'-0	2'-7	6'-3	5'-2	2.2	11'-5	4.9	17'-8	7.7	
57"	38"	3'-1	2'-11	7'-3	5'-10	2.5	13'-1	5.7	20'-4	8.9	
64''	43"	3'-3	3'-21/2	8'-1	6'-5	2.8	14'-6	6.4	22'-7	10.1	
71''	47"	3'-4	3'-6	9'-0	7'-0	3.0	16'-0	7.2	25'-0	11.3	
77''	52''	3'-6	3'-9	9'-9	7'-6	3.3	17'-3	7.9	27'-0	12.5	
83"	57"	3'-8	4'-0	10'-6	8'-0	3.5	18'-6	8.6	29'-0	13.6	
60''	46''	3'-9	3'-1	7'-8	6'-2	2.9	13'-10	6.7	21'-6	10.5	
66''	51"	3'-10	3'-4	8'-5	6'-8	3.1	15'-1	7.4	23'-6	11.6	
73''	55''	4'-0	3'-72	9'-4	7'-3	3.4	16'-7	8.3	25'-11	13.1	
81''	59''	4'-2	3'-11 ½	10'-4	7'-11	3.7	18'-3	9.1	28'-7	14.5	
87''	63''	4'-2	4'-21/2	11'-1	8'-5	4.0	19'-6	9.8	30'-7	15.6	
95''	67''	4'-4	4'-62	12'-1	9'-1	4.3	21'-2	10.8	33'-3	17.2	
103"	71''	4'-6	4'-101	12'-9	9'-9	4.7	22'-6	11.6	35'-3	18.5	
112''	75"	4'-8	5'-3	13'-6	10'-6	5.1	24'-0	12.5	37'-6	19.8	
117''	79''	4'-9	5-52	13'-11	10'-11	5.3	24'-10	12.9	38'-9	20.6	
128''	83"	5'-0	5-11	14'-10	11'-10	5.8	26'-8	14.1	41'-6	22.4	
137"	87''	5'-2	6'-3	15'-7	12'-7	6.1	28'-1	14.8	43'-8	23.5	
142"	91''	5'-4	6'-6	16'-0	13'-0	6.5	29'-0	15.7	45'-0	24.9	

GENERAL NOTES

- 1. Refer to Standard Drawings E 715-SPCA-01 and E 715-SPCA-02 for single anchor details.
- 2. Refer to Standard Drawing E 715-MPCA-02 for multiple anchor details.

LEGEND

- H Anchor height
- R Dimension from anchor edge to G exterior pipe
- S Dimension between G of adjacent pipes
- G Overall anchor length

INDIANA DEPARTMENT OF TRANSPORTATION

CONCRETE ANCHOR **TABLES**

JANUARY 1998

STANDARD DRAWING NO.E 715-ANCH-02

DETAILS PLACED IN THIS FORMAT 11-15-99 /s/Anthony L. Uremovich #1-45-99
DESIGN STANDARDS ENGINEER DATE

/s/ Firooz Zandi

ORIGINALLY APPROVED DESIGN STANDARDS ENGINEER