



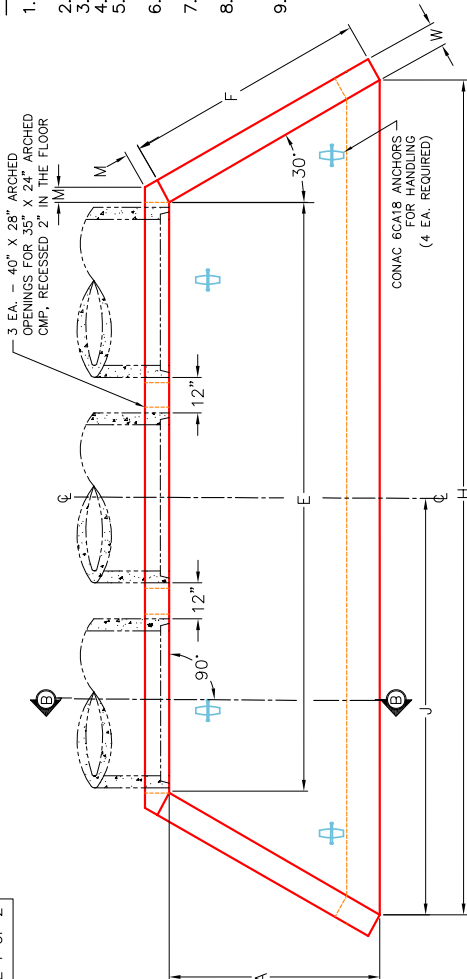
Structure ID: 43 HW (2)

P1 HWTPLCUSTOM

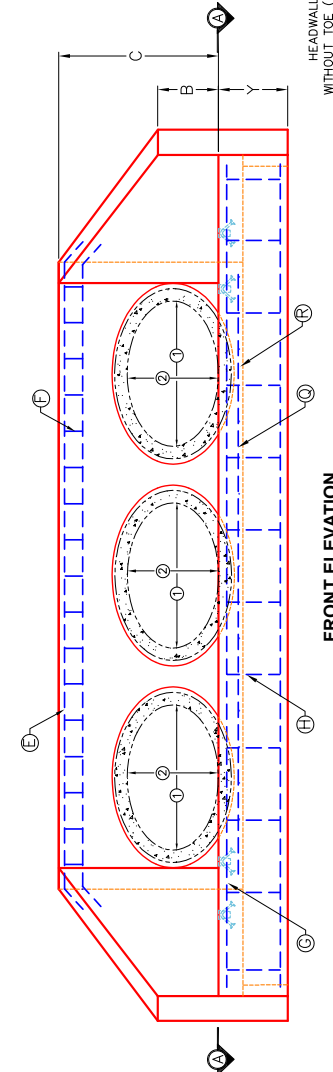
35" x 24" - PIPE CULVERT TPL HEADWALL F/F

~NOTES:

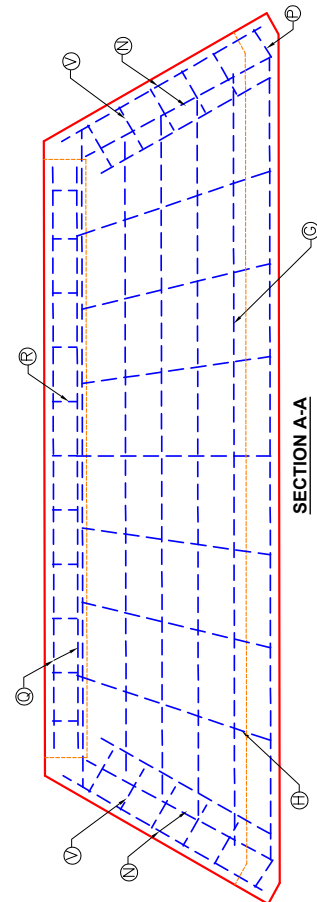
1. SEE CURRENT STANDARD DRAWINGS RDH-520-05, RDH-522 AND RDH-524 FOR DIMENSIONS, QUANTITIES AND BILL OF REINFORCEMENT.
2. DIMENSIONS FROM FACE OF CONCRETE TO STEEL SHALL BE 2" CLEAR DISTANCE.
3. ENCLOSED LETTERS (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) INDICATE STEEL BAR LOCATIONS.
4. BARS (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) ARE SPACED 12" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
5. BARS (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE TOP OF EACH WING.
6. BARS (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE TOP OF EACH WING.
7. HEADWALLS LOCATED AT SHOULDER EDGE SHALL BE PARALLEL TO THE CENTERLINE OF ROADWAY.
8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL AND ENDS OF WINGS SHALL REMAIN VERTICAL.
9. HEADWALL OPTIONS: ENERGY DISSIPATORS, SEE CHART FOR QUANTITIES PER SIZE. *AVAILABLE WITHOUT TOE ("V" DIMENSION = 12" WITHOUT TOE).



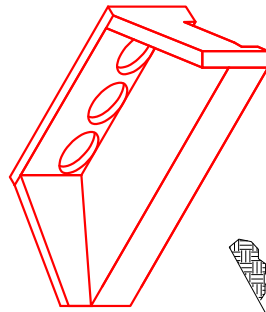
PLAN VIEW



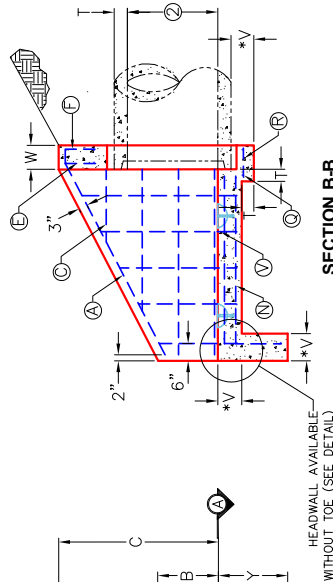
FRONT ELEVATION



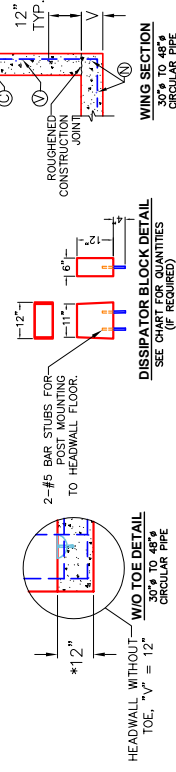
SECTION A-A



ISOMETRIC VIEW
TRIPLE 36" EQ. HW SHOWN



SECTION B-B



WING SECTION
30" TO 48" CIRCULAR PIPE



INFRASTRUCTURE PRECAST, INC.
981 WEST 7TH ST., BEAVER DAM, KY. 42320
PHONE: (270) 363-2238, FAX: (270) 288-7424

KYTC 30"-48" EQ. TRIPLE PIPE CULVERT
HEADWALLS - 0' SKEW
(FOR NON-CIRCULAR, EQUIVALENT PIPE)

DRAWING NO.: ET-KYTC-120
DATE: 02-06-25
REVIEWED BY: J.H. ROSS, PE
DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM
SCALE: NTS



Structure ID: 43 HW (2)

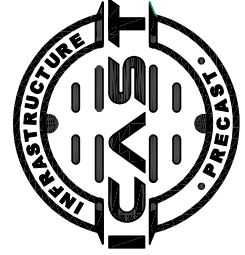
P1 HWTPLCUSTOM

35" x 24" - PIPE CULVERT TPL HEADWALL F/F

NON-CIRCULAR PIPE; EQUIVALENT ROUND SIZES

DIMENSIONS	DOUBLE				TRIPLE				DIMENSIONS
	30" (24"x38")	36" (29"x45")	42" (34"x53")	48" (38"x60")	30" (24"x35" CMP)	36" (29"x45")	42" (34"x53")	48" (38"x60")	
A	3'-9"	4'-4"	4'-11"	5'-6"	3'-9"	4'-4"	4'-11"	5'-6"	A
B	1'-0"	1'-3"	1'-5"	1'-7"	1'-0"	1'-3"	1'-5"	1'-7"	B
C	3'-0"	3'-6"	4'-0"	4'-4"	3'-0"	3'-6"	4'-0"	4'-4"	C
E	9'-8"	11'-0"	12'-6"	13'-10"	13'-6"	15'-6"	17'-9"	20'-0"	E
F	4'-4"	5'-0"	5'-8"	6'-4"	4'-4"	5'-0"	5'-8"	6'-4"	F
H	14'-0"	16'-0"	18'-2"	20'-2"	18'-0"	20'-6"	23'-6"	26'-4"	H
J	7'-0"	8'-0"	9'-1"	10'-1"	9'-0"	10'-3"	11'-9"	13'-2"	J
M	0'-5"				0'-5"				M
T	0'-3.75"	0'-4.5"	0'-5.0"	0'-5.5"	0'-3.75"	0'-4.5"	0'-5.0"	0'-5.5"	T
V	*0'-8"				*0'-8"				V
W	0'-8"				0'-8"				W
Y	2'-0"				2'-0"				Y
WEIGHT FOR 1 EA. HEADWALL (LBS.)	9,625	12,175	15,150	18,350	12,700	16,050	19,950	24,075	WEIGHT FOR 1 EA. HEADWALL (LBS.)
QUANTITY DISSIPATOR BLOCKS (EA.)	10	12	14	16	16	18	26	28	QUANTITY DISSIPATOR BLOCKS (EA.)

*AVAILABLE WITHOUT TOE ("V" DIMENSION = 12" WITHOUT TOE).



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 (FOR NON-CIRCULAR, EQUIVALENT PIPE)

DRAWING NO.: ET-KYTC-120 DATE: 02-06-25
 REVIEWED BY: J.H. ROSS, PE DRAWN BY: N. RICHARDS
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