



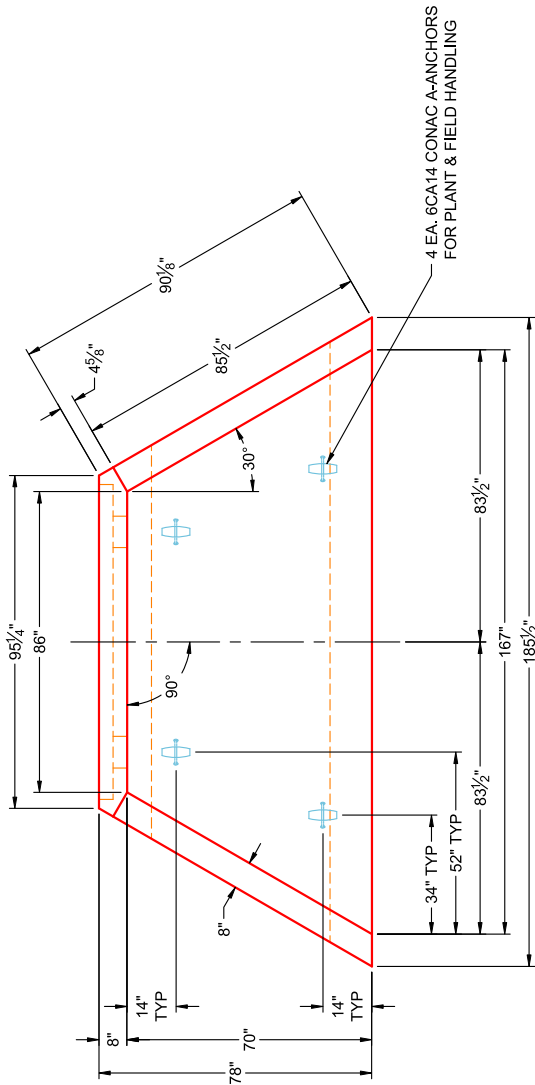
**Structure ID: BC 6 x 4 HW (1)**

**P1 HWCUSTOM**

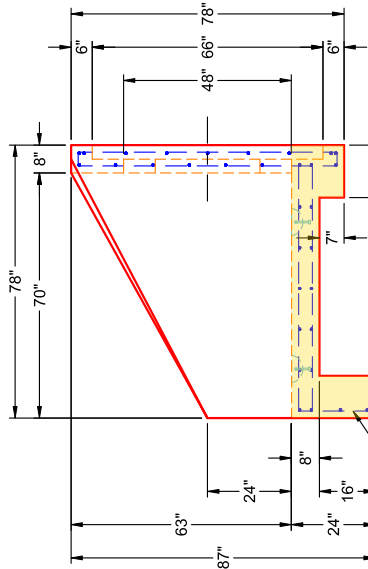
**72" x 48" - BOX CULVERT HEADWALL F/F**

**GENERAL NOTES:**

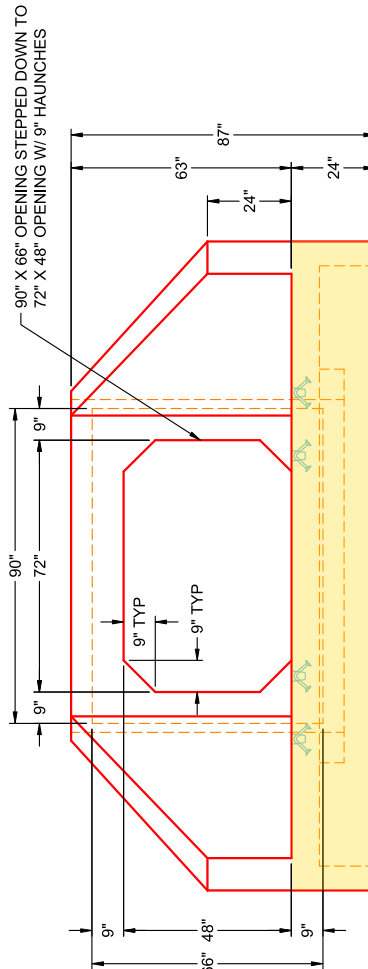
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
- CONCRETE: 5,000 PSI AT 28 DAYS
- TOTAL WEIGHT: 17,065 LBS  
 - FIRST POUR: 10,870 LBS  
 - SECOND POUR: 6,195 LBS



**PLAN VIEW  
(RIGHT SIDE UP)**



**SIDE VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER		PRODUCT I.D.: HWCUSTOM	DESCRIPTION: 72" X 48" BOX CULVERT HEADWALL - 0° SKEW
QUALITY CONTROL CHECKLIST		PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC
<input type="checkbox"/> ALL DIMENSIONS CORRECT. <input type="checkbox"/> LIFTERS INSTALLED <input type="checkbox"/> OPENING CENTERED. <input type="checkbox"/> REINFORCING CORRECT. <input type="checkbox"/> SURFACE QUALITY ACCEPTABLE. <input type="checkbox"/> EDGES CHAMFERED. <input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.		PLANT: BEAVER DAM, KY	PROJECT: HUNTER'S RIDGE PH 1
		WEIGHT: 17,065 LBS	STRUCTURE: BC 6 X 4 HW (1)
		TOP SECTION JOINT: N/A	ORDER NO: 25-2898
		BASE SECTION JOINT: N/A	PE: J.H. ROSS
		QC CHECK INITIALS:	DRAWING: K. CARDWELL
			DATE: 05/29/26
			SCALE: NTS
			PG. 1 OF 1





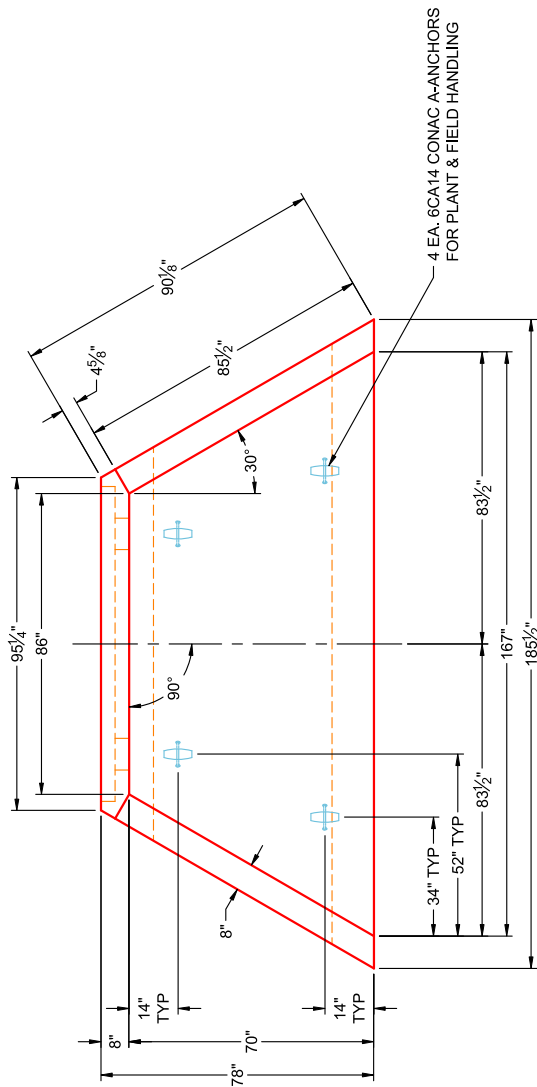
**Structure ID: BC 6 x 4 HW (1)**

**P1 HWCUSTOM**

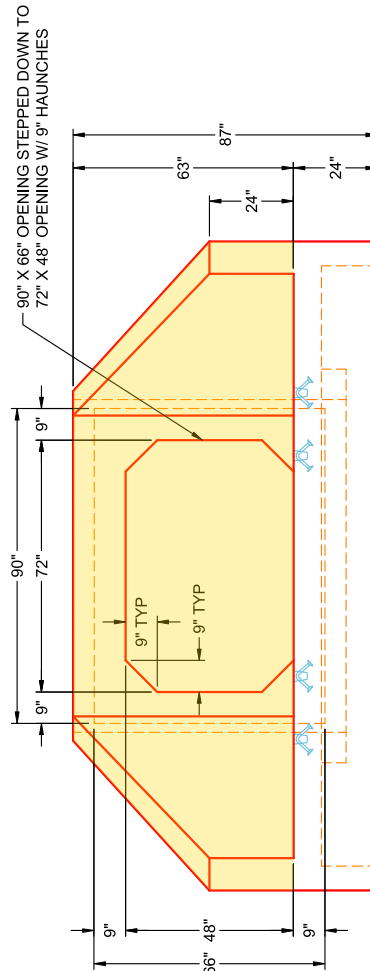
**72" x 48" - BOX CULVERT HEADWALL F/F**

**GENERAL NOTES:**

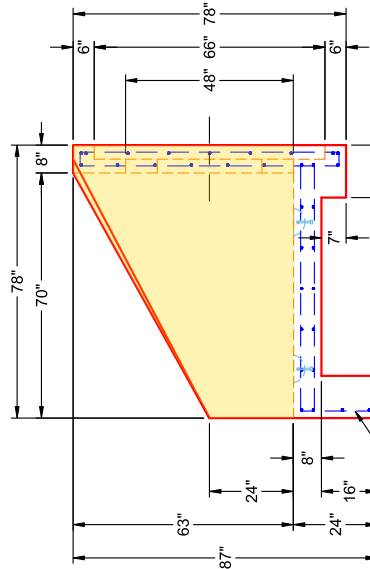
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
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**PLAN VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**



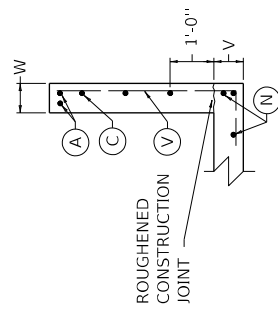
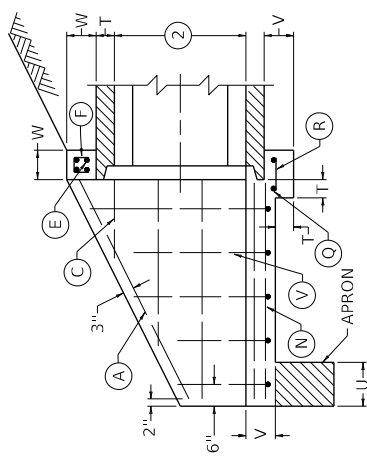
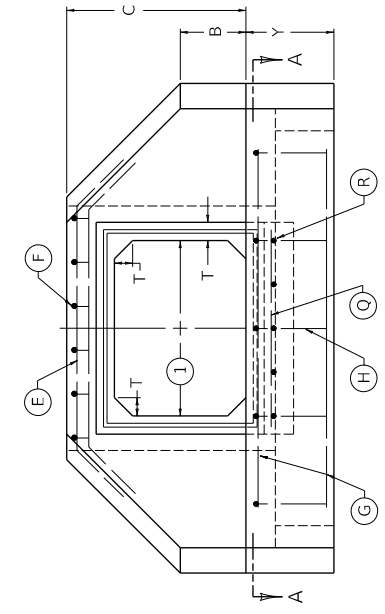
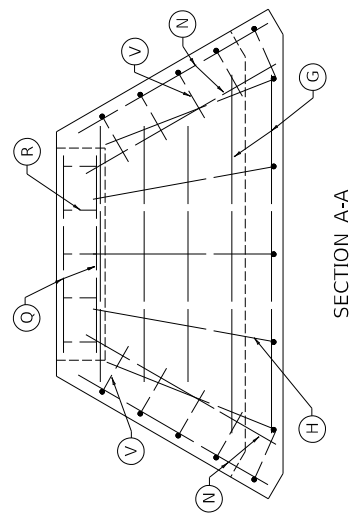
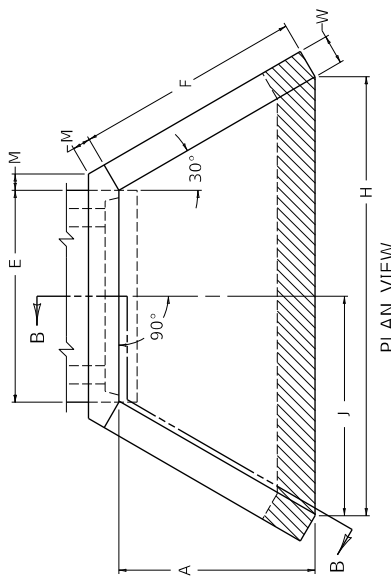
**SIDE VIEW  
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER		PRODUCT I.D.: HWCUSTOM	DESCRIPTION: 72" X 48" BOX CULVERT HEADWALL - 0° SKEW
QUALITY CONTROL CHECKLIST		PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC
<input type="checkbox"/> ALL DIMENSIONS CORRECT. <input type="checkbox"/> LIFTERS INSTALLED <input type="checkbox"/> OPENING CENTERED. <input type="checkbox"/> REINFORCING CORRECT. <input type="checkbox"/> SURFACE QUALITY ACCEPTABLE. <input type="checkbox"/> EDGES CHAMFERED. <input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.		PLANT: BEAVER DAM, KY	PROJECT: HUNTER'S RIDGE PH 1
		WEIGHT: 17,065 LBS	STRUCTURE: BC 6 X 4 HW (1)
		TOP SECTION JOINT: N/A	ORDER NO: 25-2898
		BASE SECTION JOINT: N/A	PE: J.H. ROSS
		QC CHECK INITIALS:	DRAWING: K. CARDWELL
			DATE: 05/29/26
			SCALE: NTS
			PG. 1 OF 1



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DRAWING SCALE:  
 $\frac{1}{2}'' = 1'$



ROUGHENED  
 CONSTRUCTION  
 JOINT

NOTES

1. SPAN OF BOX CULVERT
2. RISE OF BOX CULVERT
3. FOR DIMENSIONS, QUANTITIES, AND BILL OF REINFORCEMENT SEE CUR. STD. DWGS. RDH-1100, RDH-1200 AND RDH-1300 SERIES.
4. DIMENSIONS FROM FACE OF CONCRETE TO STEEL SHALL BE 2" CLEAR DISTANCE.
5. ENCIRCLED LETTERS, ○, INDICATE STEEL BAR LOCATIONS.
6. BARS ○, ○, AND ○ ARE SPACED 1'-0" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
7. BARS ○ ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE END OF EACH WING.
8. BARS ○ ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE TOP OF EACH WING.
9. HEADWALLS LOCATED AT SHOULDER EDGE SHALL BE PARALLEL TO CENTERLINE OF ROAD.
10. [Hatched pattern] LIMITS OF APRON.
11. PAVING SHALL BE REQUIRED AND SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF BOX. FRONT FACE OF HEADWALL AND ENDS OF WINGS SHALL REMAIN VERTICAL.

(LAYOUT AND STEEL PATTERN)  
 KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 PRECAST BOX CULVERT  
 HEADWALLS - 0° SKEW  
 (BOX RISE LESS THAN 6'-0")  
 STANDARD DRAWING NO. RDH-1000-02  
 SUBMITTED \_\_\_\_\_ DIRECTOR DIVISION OF DESIGN \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED \_\_\_\_\_ STATE HIGHWAY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PRECAST BOX CULVERT

DIMENSION	PRECAST BOX CULVERT											DIMENSION
	3'x2'	3'x3'	4'x2'	4'x3'	4'x4'	5'x3'	5'x4'	5'x5'	6'x3'	6'x4'	6'x5'	
A	3'-4"	4'-4"	3'-6"	4'-6"	5'-6"	4'-8"	5'-8"	6'-8"	4'-10"	5'-10"	6'-10"	8'-0"
B	1'-0"	1'-6"	1'-0"	1'-6"	2'-0"	1'-6"	2'-0"	2'-6"	1'-6"	2'-0"	2'-6"	3'-0"
C	3'-0"	4'-0"	3'-1"	4'-1"	5'-1"	4'-2"	5'-2"	6'-2"	4'-3"	5'-3"	6'-3"	7'-5"
E	3'-8"			4'-10"			6'-0"			7'-2"		
F	3'-10"	5'-0"	4'-0"	5'-2"	6'-4"	5'-5"	6'-7"	7'-8"	5'-7"	6'-9"	7'-11"	9'-3"
H	7'-6"	8'-8"	8'-10"	10'-0"	11'-2"	11'-5"	12'-7"	13'-8"	12'-9"	13'-11"	15'-1"	16'-5"
J	3'-9"	4'-4"	4'-5"	5'-0"	5'-7"	5'-8"	6'-3"	6'-10"	6'-4"	6'-11"	7'-6"	8'-2"
M						0'-5"						0'-6"
T	0'-4"			0'-5"			0'-6"			0'-7"		
U					1'-0"							
V					0'-8"							1'-0"
W					0'-8"							0'-10"
X					----							2'-0"
Y					2'-0"							2'-6"
Z					----							1'-3"

KENTUCKY  
DEPARTMENT OF HIGHWAYS  
DIMENSIONS  
3' x 2' - 6' x 6' HEADWALLS  
PRECAST BOX CULVERT  
0° SKEW  
STANDARD DRAWING NO. RDH-1100-02  
SUBMITTED: \_\_\_\_\_ DIRECTOR DIVISION OF DESIGN \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED: \_\_\_\_\_ STATE HIGHWAY ENGINEER \_\_\_\_\_ SEAL: \_\_\_\_\_

BOX SIZE ①	CONCRETE 2 HEADWALLS					REINFORCEMENT 2 HEADWALLS	
	②	③	④	⑤	⑥	⑦	⑧
3 X 2	3.17	0.82	—	—	—	271	—
3 X 3	4.39	0.94	—	—	—	365	—
4 X 2	3.74	0.96	—	—	—	311	—
4 X 3	5.06	1.07	—	—	—	389	—
4 X 4	6.60	1.18	—	—	—	497	—
5 X 3	5.76	1.20	—	—	—	430	—
5 X 4	7.39	1.32	—	—	—	576	—
5 X 5	9.24	1.43	—	—	—	681	—
6 X 3	6.51	1.34	—	—	—	483	—
6 X 4	8.22	1.45	—	—	—	603	—
6 X 5	10.16	1.57	—	—	—	738	—
6 X 6	19.81	2.39	2.24	3.26	18.43	1619	273
7 X 4	9.10	1.59	—	—	—	652	—
7 X 5	11.13	1.70	—	—	—	796	—
7 X 6	21.08	2.54	2.56	3.43	19.40	1678	292
7 X 7	24.13	2.67	3.00	3.69	22.15	2092	353
8 X 4	9.59	1.68	—	—	—	693	—
8 X 5	11.67	1.80	—	—	—	805	—
8 X 6	21.80	2.65	2.78	3.54	19.90	1736	325
8 X 7	24.88	2.78	3.25	3.80	22.64	2117	350
8 X 8	31.42	4.03	3.34	5.47	29.52	2749	427

BOX SIZE ①	CONCRETE 2 HEADWALLS					REINFORCEMENT 2 HEADWALLS	
	②	③	④	⑤	⑥	⑦	⑧
9 X 5	12.70	1.93	—	—	—	877	—
9 X 6	23.13	2.81	3.12	3.71	20.91	1791	327
9 X 7	26.26	2.93	3.62	3.97	23.68	2204	397
9 X 8	33.01	4.23	3.73	5.70	30.75	2846	479
9 X 9	36.81	4.40	4.25	6.04	34.20	3431	509
10 X 5	13.79	2.07	—	—	—	971	—
10 X 6	24.50	2.96	3.47	3.89	21.96	1972	376
10 X 7	27.69	3.09	4.00	4.14	24.75	2419	444
10 X 8	34.64	4.43	4.12	5.93	32.01	3081	482
10 X 9	38.50	4.60	4.68	6.27	35.49	3539	565
10 X 10	53.89	7.29	5.40	9.95	51.16	4748	674
11 X 4	12.60	2.09	—	—	—	870	—
11 X 6	25.92	3.11	3.83	4.06	23.04	2049	413
11 X 8	36.32	4.63	4.53	6.16	33.32	3180	534
11 X 10	56.04	7.59	5.89	10.29	52.85	4801	677
11 X 11	69.84	7.77	6.93	10.66	65.81	5688	778
12 X 4	13.72	2.22	—	—	—	903	—
12 X 6	27.39	3.26	4.19	4.23	24.17	2134	457
12 X 8	38.05	4.84	4.94	6.39	34.66	3424	587
12 X 10	60.16	7.88	6.38	10.62	56.52	5075	740
12 X 12	92.85	8.01	8.83	10.98	86.98	6916	929

- ① PRECAST CONCRETE BOX CULVERT SECTIONS EQUALS THE INTERIOR SPAN (S) BY THE INTERIOR RISE (R) IN FEET.
- ② CU. YDS. OF CONCRETE IN TWO HEADWALLS WITH PAVING.
- ③ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITH PAVING).
- ④ CU. YDS. OF CONCRETE IN TWO PAVED AREAS OF THE HEADWALLS.
- ⑤ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITHOUT PAVING).
- ⑥ CU. YDS. OF CONCRETE IN TWO HEADWALLS WITHOUT PAVING.
- ⑦ POUNDS OF REINFORCING STEEL IN TWO HEADWALLS WITH PAVING.
- ⑧ POUNDS OF REINFORCING STEEL TO DEDUCT WHEN PAVING FOR TWO HEADWALLS IS ELIMINATED.

KENTUCKY DEPARTMENT OF HIGHWAYS	
QUANTITIES 3' x 2' - 12' x 12' H-WALLS PRECAST BOX CULVERTS 0° SKEW	
SUBMITTED: _____	DATE: _____
APPROVED: _____	STATE HIGHWAY ENGINEER
STANDARD DRAWING NO. RDH-1200-02	

