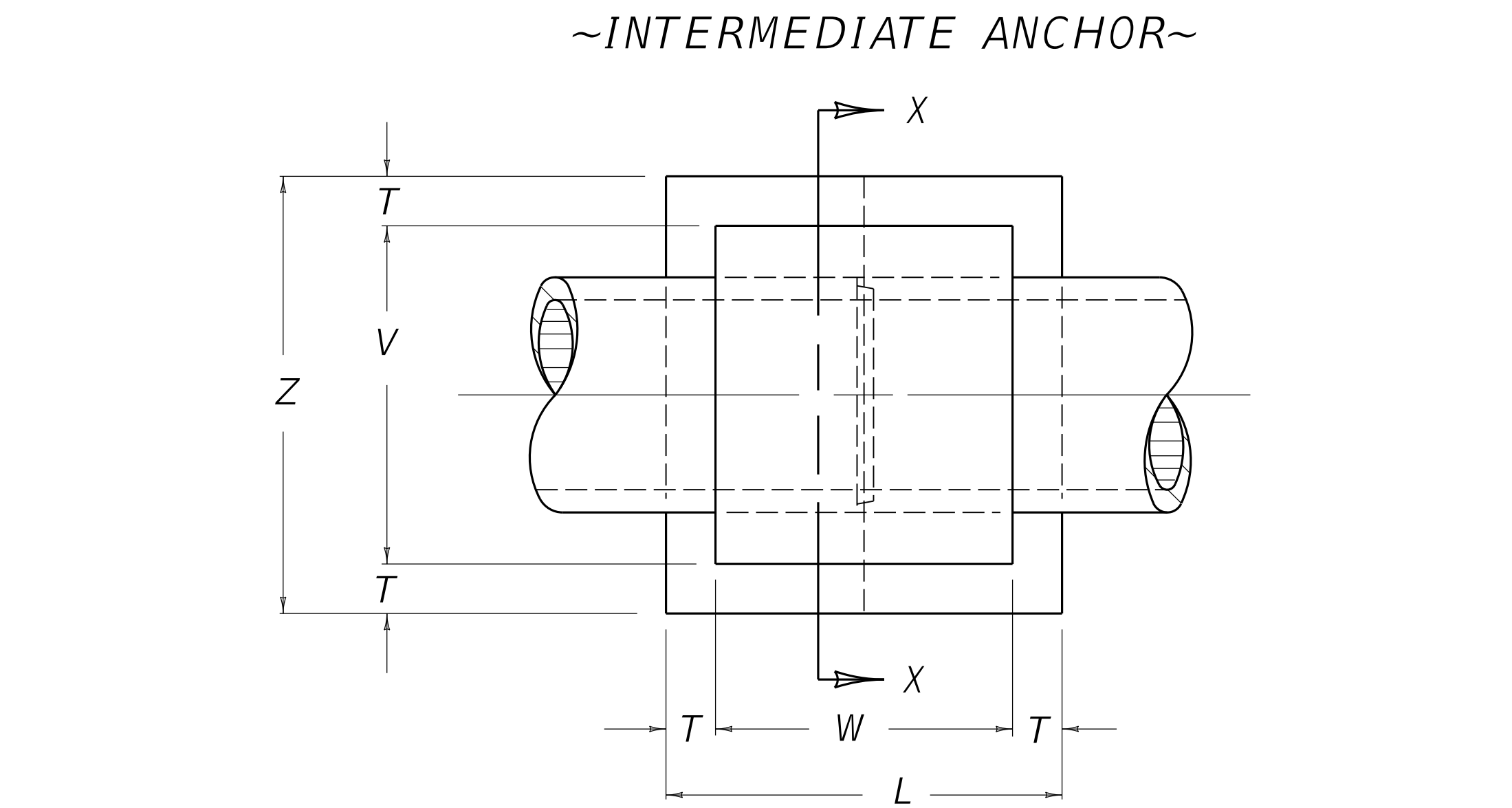
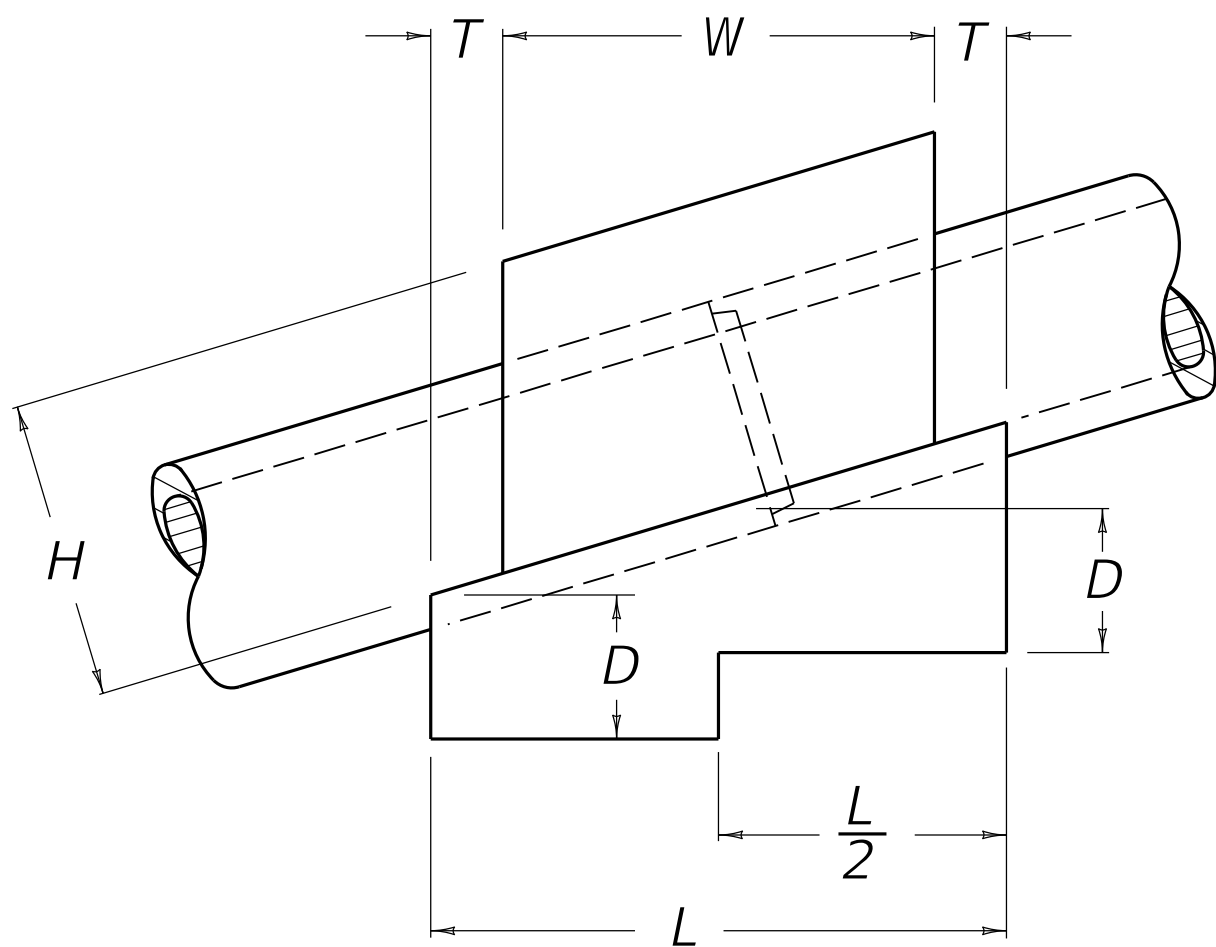
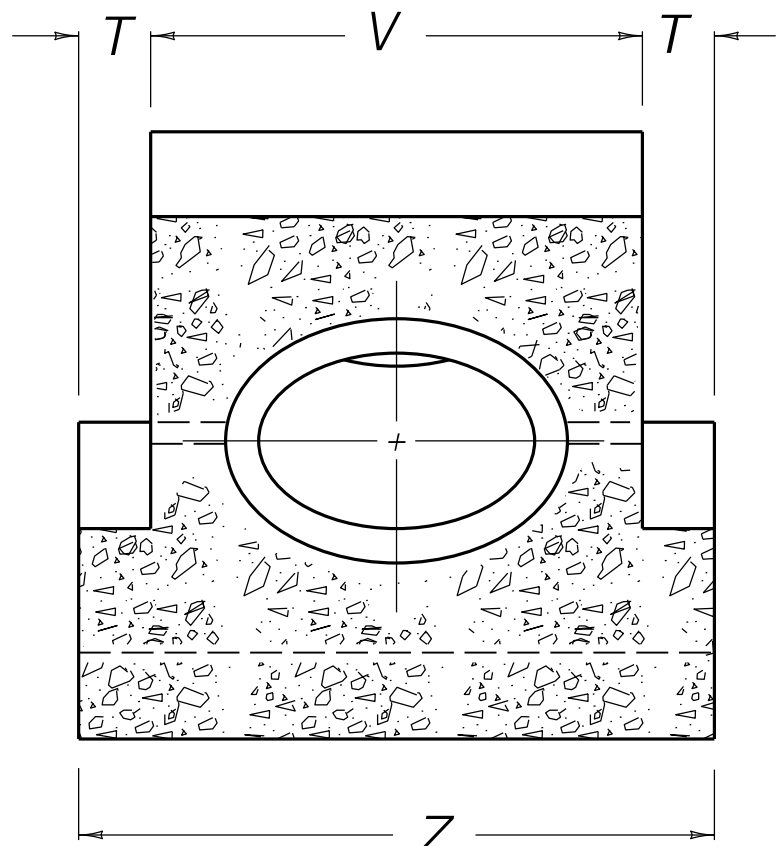




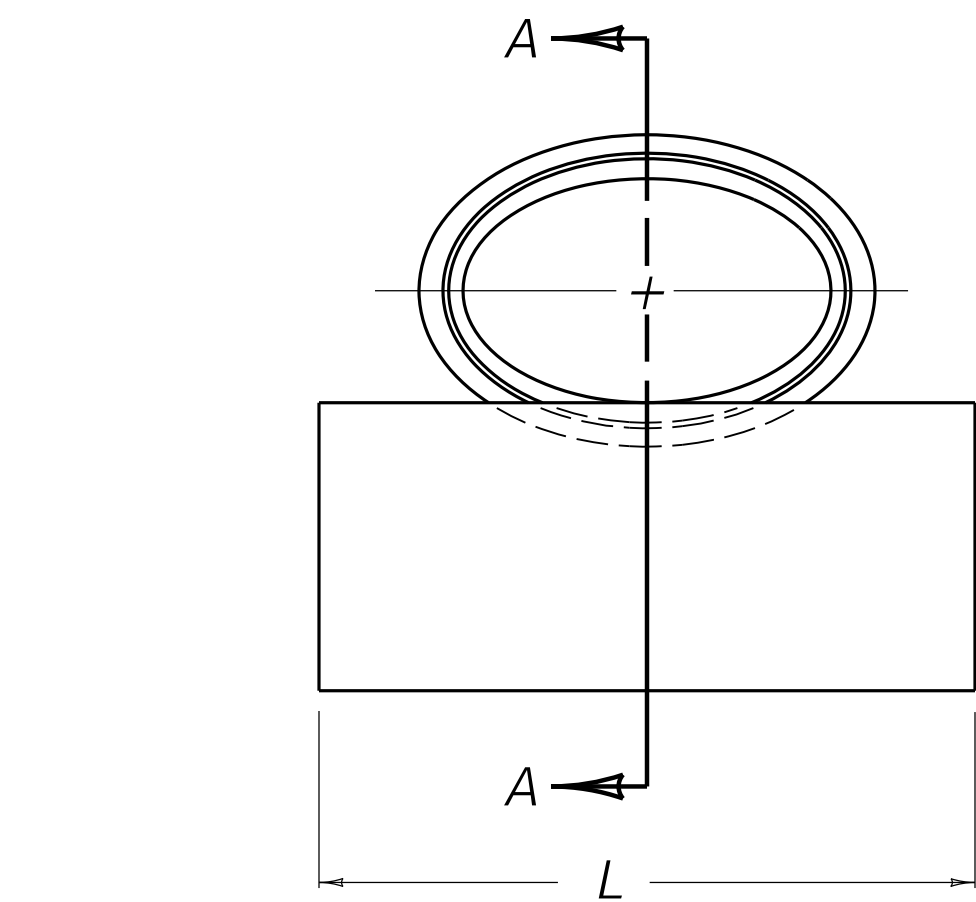
PLAN VIEW



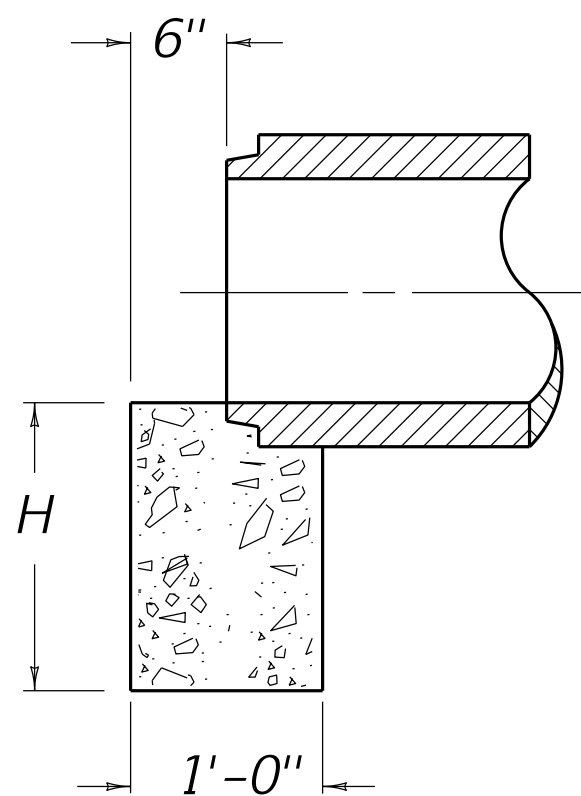
ELEVATION



SECTION X-X



END ELEVATION



SECTION A-A

BID ITEM AND UNIT TO BID
CONCRETE-CLASS "A"

~ NOTES ~

CUYD

1. THE UNIT PRICE BID PER CU. YD. FOR CLASS "A" CONCRETE SHALL INCLUDE ALL FORMS, MATERIALS, LABOR, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. THE VOLUME DISPLACED BY BARREL OF PIPE HAS BEEN COMPUTED USING DIMENSION OF PIPE.
3. FOR GRADE BREAKS IN PIPE, USE AVERAGE GRADE TO CALCULATE VOLUMES.

INTERMEDIATE ANCHOR FOR PIPE													
NON-CIRCULAR PIPE: EQUIVALENT ROUND SIZES													
VOLUME IN CU. YDS. OF CLASS "A" CONCRETE FOR ONE ANCHOR	% GRADE	15"	18"	24"	27"	30"	33"	36"	39"	42"	48"	54"	60"
	0	.98	1.22	1.80	2.18	2.57	2.98	3.54	4.60	6.65	8.04	10.66	8.23
	10	1.08	1.27	1.88	2.28	2.69	3.12	3.70	4.83	6.86	8.42	11.20	9.20
	20	1.16	1.32	1.95	2.36	2.80	3.25	3.85	5.04	7.13	8.77	11.70	10.00
	30	1.24	1.36	2.02	2.44	2.90	3.37	3.99	5.23	7.39	9.10	12.16	10.72
	40	1.32	1.40	2.08	2.53	2.99	3.47	4.12	5.41	7.69	9.39	12.59	11.37
	50	1.40	1.45	2.14	2.60	3.08	3.58	4.23	5.57	7.84	9.67	12.97	11.94
	60	1.42	1.49	2.20	2.67	3.14	3.67	4.34	5.72	8.05	9.92	13.33	12.47
	70	1.47	1.53	2.26	2.72	3.24	3.76	4.44	5.86	8.24	10.16	13.67	12.94
	80	1.51	1.57	2.31	2.76	3.31	3.84	4.53	5.99	8.41	10.38	13.98	13.37
	90	1.54	1.60	2.37	2.83	3.39	3.92	4.62	6.12	8.58	10.58	14.27	13.75
	100	1.58	1.64	2.42	2.92	3.45	4.00	4.70	6.23	8.74	10.78	14.54	14.11
DIMENSIONS	L	3'-9"	4'-0"	4'-7"	4'-11"	5'-3"	5'-6"	5'-10"	6'-6"	7'-2"	7'-8"	9'-2"	9'-10"
	W	2'-9"	3'-0"	3'-7"	3'-11"	4'-3"	4'-6"	4'-10"	5'-4"	5'-10"	6'-4"	7'-8"	7'-6"
	H	1'-9"	2'-2"	2'-7"	2'-10"	3'-2"	3'-3"	3'-6"	3'-9"	4'-2"	4'-4"	4'-9"	5'-4"
	D	1'-0"								1'-6"			
	V	3'-0"	3'-5"	4'-1"	4'-5"	4'-10"	5'-2"	5'-6"	6'-1"	6'-7"	7'-3"	8'-2"	7'-6"
	T	6"							7"	8"		9"	8"
	Z	4'-0"	4'-5"	5'-1"	5'-5"	5'-10"	6'-2"	6'-6"	7'-3"	7'-11"	8'-7"	9'-8"	8'-10"
END ANCHOR FOR PIPE OUTLET (CLASS "A" CONCRETE)													
DIMENSIONS	L	3'-0"	3'-5"	4'-1"	4'-5"	4'-10"	5'-2"	5'-6"	6'-0"	6'-6"	7'-2"	7'-10"	7'-10"
	H ON EARTH	1'-6"								2'-0"			
	H ON ROCK	1'-0"											
VOLUME CU. YDS. (ONE ANCHOR)	EARTH	0.17	0.19	0.23	0.25	0.27	0.29	0.31	0.33	0.48	0.53	0.58	0.58
	ROCK	0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.24	0.27	0.29	0.29

REVISION DATE: 12/01/2015
REVISION NUMBER: 0

12-01-2015
DATE

SUBMITTED
DIVISION DIRECTOR

12-01-2015
DATE

APPROVED
STATE HIGHWAY ENGINEER

DRAINAGE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



MISCELLANEOUS

INTERMEDIATE AND END ANCHORS FOR NON-CIRCULAR PIPES

STANDARD DRAWING NUMBER
RDX-065-04