

LOADING: HS20-44 A.A.S.H.T.O. Specification, 1983 Edition.

UNIT STRESSES:

Concrete $F_c = 4000$ p.s.i. $F_y = 60,000$ p.s.i.
 $F_c = 1600$ p.s.i. $F_s = 24,000$ p.s.i.

CONSTRUCTION: Plan detail depicts precast construction. Cast-in-place construction may be used at the Contractor's option with the approval of the Engineer. Payment will be the same regardless of the option chosen.

EXCAVATION: All excavation and backfill shall extend two (2) feet beyond the sides of the box and 3'-5" beyond the centerline of the waterline.

CONFLICT: If R.C.B. plan notes conflict with the General Notes from this sheet, then these General Notes will govern.

PRECAST CONCRETE: Precast Box Sections shall meet the appropriate design and inspection requirements of A.S.T.M. Designation C-850, Table 2 or C-789, Table 2 whichever is critical and the Loading Specifications. The intermediate joints shall be sealed with a mastic compound which shall be provided for approval with the shop detail submittal. The Contractor shall furnish, to the Engineer, detail plans and shop drawings showing the proposed precast layout and all other details for manufacture and delivery of any precast items to be incorporated into the work.

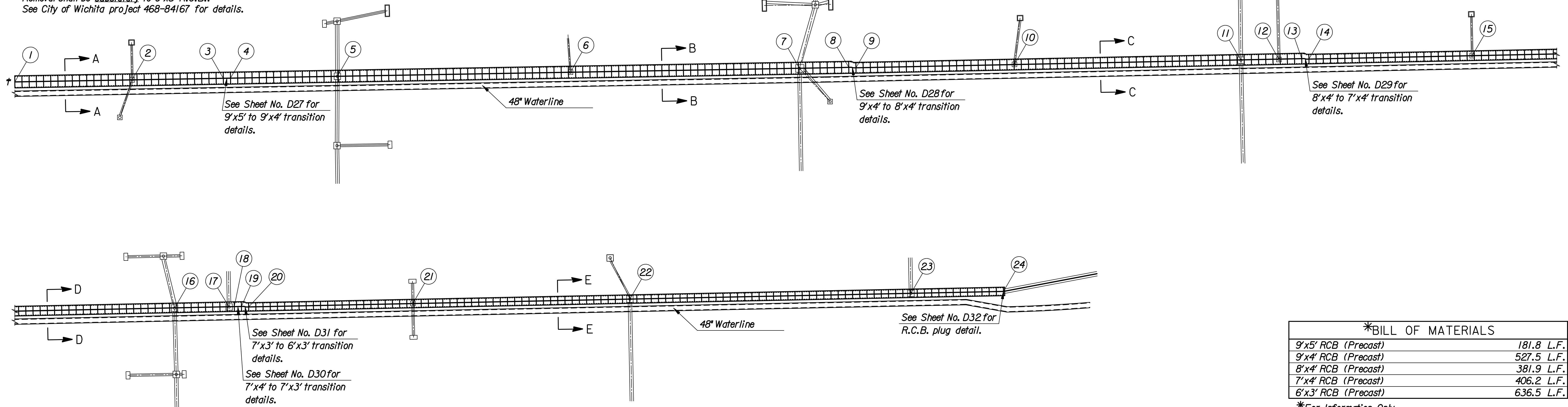
SEAL COURSE: A Seal Course shall be constructed below the R.C.B. as shown in the Plans. The Seal Course shall consist of 6" of crushed rock conforming to ASTM C-33, Gradation No. 67, and shall meet the requirements for Portland Cement Concrete Pavement Course Aggregate, Section 406.2, City of Wichita Standard Specifications. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury. Estimated quantity is 424 C.Y. and is considered subsidiary to the bid items "9'x5' R.C.B.", "9'x4' R.C.B.", "8'x4' R.C.B.", "7'x4' R.C.B.", "6'x3' R.C.B.", or "4'x3' R.C.B."

REINFORCING STEEL: Reinforcing used in the Precast Sections is not required to be epoxy coated. The concrete cover for all reinforcing shall be 1 1/2" minimum unless otherwise noted.

MANHOLES: See Sheet D22 and D26 for Manhole Details.

TABLE OF COORDINATES					
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	FLOWLINE ELEVATION	TOP ELEVATION
€ 9'x5' RCB @ Beginning of Pre-Cast E, West End	1	1684282.1326	1648640.9506	1283.43	-
€ Manhole (L=4'-0" W=4'-0")	2	1684283.8572	1648739.9356	1283.75	1298.04
€ 9'x5' RCB @ Beginning of Transition to 9'x4' RCB E	3	1684285.1954	1648816.7364	1284.00	-
€ 9'x4' RCB @ End of Transition from 9'x5' RCB E	4	1684285.3010	1648822.7980	1284.00	-
€ Manhole (L=5'-6" W=5'-6")	5	1684286.8710	1648912.9068	1284.00	1297.25
€ Manhole (L=4'-0" W=4'-0")	6	1684290.3815	1649109.3703	1284.00	1297.45
€ Manhole (L=6'-6" W=6'-6")	7	1684293.4929	1649302.5372	1284.00	1297.12
€ 9'x4' RCB @ Beginning of Transition to 8'x4' RCB E	8	1684294.4026	1649344.0793	1284.00	-
€ 8'x4' RCB @ End of Transition from 9'x4' RCB E	9	1684294.0275	1649350.1508	1284.00	-
€ Manhole (L=4'-0" W=4'-0")	10	1684296.8953	1649483.7456	1284.00	1297.23
€ Manhole (L=6'-6" W=6'-6")	11	1684300.4568	1649674.7124	1284.00	1296.60
€ Manhole (L=4'-0" W=4'-0")	12	1684301.0535	1649706.7069	1284.00	1296.28
€ 8'x4' RCB @ Beginning of Transition to 7'x4' RCB E	13	1684301.7631	1649725.9462	1284.00	-
€ 7'x4' RCB @ End of Transition from 8'x4' RCB E	14	1684301.3880	1649732.0177	1284.00	-
€ Manhole (L=4'-0" W=4'-0")	15	1684304.2548	1649869.6700	1284.00	1295.52
€ Manhole (L=5'-6" W=5'-6")	16	1684308.3174	1650075.6300	1284.00	1293.85
€ Manhole (L=5'-6" W=5'-6")	17	1684309.2246	1650121.6210	1284.00	1294.24
€ 7'x4' RCB @ Beginning of Transition to 7'x3' RCB E	18	1684309.4980	1650125.9967	1284.00	-
€ 7'x3' RCB @ Beginning of Transition to 6'x3' RCB E	19	1684309.6227	1650132.0580	1284.00	-
€ 6'x3' RCB @ End of Transition from 7'x3' RCB E	20	1684309.2476	1650138.1295	1284.00	-
€ Manhole (L=4'-0" W=4'-0")	21	1684312.2815	1650276.5909	1284.00	1294.70
€ Manhole (L=5'-6" W=5'-6")	22	1684315.8905	1650459.5553	1284.00	1295.37
€ Manhole (L=5'-6" W=5'-6")	23	1684320.7440	1650696.5014	1284.77	1295.77
End of 6'x3' RCB, Beginning of 45'x29' RCPHE E	24	1684322.3470	1650774.4947	1286.15	-

† Remove precast concrete plug before starting construction. Removal shall be subsidiary to 9'x5' R.C.B.. See City of Wichita project 468-84167 for details.



*BILL OF MATERIALS	
9'x5' RCB (Precast)	181.8 L.F.
9'x4' RCB (Precast)	527.5 L.F.
8'x4' RCB (Precast)	381.9 L.F.
7'x4' RCB (Precast)	406.2 L.F.
6'x3' RCB (Precast)	636.5 L.F.

*For Information Only

PLOT DATE: 2/27/2007
 DSNR: MSN OPER: DRP SCALE: 1"=40'
 I:/2005/05493-2/Waterman/05493-002-GENNOTE1.DGN

No.	Revision	By	Date
DOWNTOWN ARENA SWD OUTFALL PHASE 2 - WATERMAN PORTION			
GENERAL NOTES AND LAYOUT			
JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-84167			
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MSN	Job No.	32-05493-2-42
Drawn by	DRP	Date	Feb., 2007
			Sht. D25 of D35