

Location	Class III Excavation	Concrete (Grade 4.0) (AE)(SA)	Concrete (Grade 4.0) (AE)	Piles (Steel) (HPI0x42)	Test Piles (Steel) (HPI0x42)	Pre-Drilled Pile Holes	Reinforcing Steel (Grade 60) (Epoxy Coated)	Reinforcing Steel (Grade 60)	Structural Steel (A709) (Gr. 36)	Bridge Backwall Protection System	Abutment Strip Drain	Drilling and Grouting	Riprap (Reinforced Concrete) (4")	Silica Fume Overlay (1 1/2")	Prestressed Concrete Beams (K3) (Lin. Ft.)		
															41'-2"	80'-4"	
Br. No. 32.78 (4I2)	Abutment No. 1	26.2	8.49	4.92	97.0	30.0	960	730			9.3	8.7		93.88			
	Pier No. 1	35.5		15.38	444.0	60.0		5,625				20					
	Pier No. 2	35.9		15.38	384.0			5,625				20					
	Abutment No. 2	26.9	8.49	4.92	174.0		30.0	960	730		9.3	8.7		93.88			
	Substr. Total	124.5	16.98	40.60	1,089.0	97.0	120.0		12,710		18.6	17.4	40	187.76			
Total	Superstr. Total		83.45				23,020		1,329					248.3	164.7	160.7	
	Total	125	100.4	40.6	1,089	97	120	24,940	12,710	1329	19	17	40	187.8	248	165	161
	Br. No. 32.79 (4I1)	Abutment No. 1	26.7	8.49	4.92	174.0	30.0	960	730		9.3	8.3		93.88			
Pier No. 1		34.3		15.38	444.0	60.0		5,625				20					
Pier No. 2		34.4		15.38	384.0			5,625				20					
Abutment No. 2		25.7	8.49	4.92	87.0	97.0	30.0	960	730		9.3	8.3		93.88			
Substr. Total		121.1	16.98	40.60	1,089.0	97.0	120.0		12,710		18.6	16.6	40	187.76			
Total	Superstr. Total		83.45				23,020		1,329					248.3	164.7	160.7	
	Total	121	100.4	40.6	1,089	97	120	24,940	12,710	1329	19	17	40	187.8	248	165	161

Br. No. 32.78 (4I2) E.B.
† Summary of Piling
Abutment No. 1 1 @ 87.0'
Pier No. 1 6 @ 74.0'
Pier No. 2 6 @ 64.0'
Abutment No. 2 2 @ 87.0'

†† Summary of Test Piling
Abutment No. 1 1 @ 97.0'

Br. No. 32.79 (4I1) W.B.
† Summary of Piling
Abutment No. 1 2 @ 87.0'
Pier No. 1 6 @ 74.0'
Pier No. 2 6 @ 64.0'
Abutment No. 2 1 @ 87.0'

†† Summary of Test Piling
Abutment No. 2 1 @ 97.0'

LRFR RATING FACTORS - 32.78 (4I2) E.B.

Rating Level	Truck	Inventory	Operating
HL-93 Loading		1.222	1.906

2008 Manual for Bridge Evaluation
Rating factors valid for new beams ONLY!

LFD RATING FACTORS - 32.78 (4I2) E.B.

Rating Level	Truck	Inventory	Operating
HS-20-44		1.368	2.306
H.E.T.			1.001

2002 LFD Rating, 17th Edition AASHTO

LRFR RATING FACTORS - 32.79 (4I1) W.B.

Rating Level	Truck	Inventory	Operating
HL-93 Loading		1.222	1.906

2008 Manual for Bridge Evaluation
Rating factors valid for new beams ONLY!

LFD RATING FACTORS - 32.79 (4I1) W.B.

Rating Level	Truck	Inventory	Operating
HS-20-44		1.368	2.306
H.E.T.			1.001

2002 LFD Rating, 17th Edition AASHTO

TRAFFIC DATA
32.78 (4I2) E.B.

AADT (2010)	11,335
AADT (2035)	26,000
DHV	12%
D	65/35
T	10%

TRAFFIC DATA
32.79 (4I1) W.B.

AADT (2010)	11,335
AADT (2035)	26,000
DHV	12%
D	65/35
T	10%

No.	Revisions	By	Date

BR. NO. 96-87-32.78 (4I2) E.B. STA. 463+49.36
BR. NO. 96-87-32.79 (4I1) W.B. STA. 463+48.72

SUMMARY OF QUANTITIES

K-96 OVER GREENWICH ROAD
PROJECT NO. 472-85066 SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by C.W.P.J. Checked by M.S.N.
Drawn by C.W.P.J. Date Jan. 2014 Job No. 09521