



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	2	#4	12'-0"	—
b	1	#4	13'-3"	—
b1	1	#4	13'-9"	—
b2	1	#4	16'-0"	—
b3	2	#4	20'-4"	—
d	14	#4	4'-3"	┌
d1	6	#5	9'-3"	┌
h	2	#4	23'-0"	┌
h1	6	#4	5'-3"	—
v	14	#5	4'-5"	┌
v1	14	#5	6'-0"	L
w	2	#4	5'-4"	—
Concrete Headwalls			Cu. Yd.	4.5
Reinforcement Bars			Lb.	380

* Cut In Field To Fit

FILE NAME =	USER NAME = #USER#	DESIGNED - B.N.S.	REVISED -
#FILE#		DRAWN - D.L. / F.M.	REVISED -
		CHECKED - B.N.S. / J.C.N.	REVISED -
		DATE - FEBRUARY 10, 2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REINFORCED CONCRETE HEADWALL
U.S. 45 @ E.J. & E. RR**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	104-3	WILL	32	18
CONTRACT NO. 60B09				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS / PLANNERS / SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL 60606
PHONE: (312) 972-2023 FAX: (312) 972-5274

DRAWN BY: J. W. WACKER DATE: 2/11/08 1:15 PM