

TAPERED CRASHWALL EXTENSION (THREE CIRCULAR COLUMN PIER) (WORK WITH SHEET 83)

STRUCTURE		DIMENSION					CONCRETE STRUCTURES	BAR				BAR				BAR				BAR												
STATION		B (FT)	C (FT)	D (FT)	E (FT)	F (FT)	(CU YD)	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	BAR	QTY	SIZE	LENGTH	LBS	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	BAR	QTY	SIZE	A	I	LENGTH	SHAPE	LBS
092-0099	1727+30.31	1'-8"	2'-4"	0'-3"	2'-6"	10'-5"	12.45	h(E)	72	#5	2'-9"		206.5	h6(E)	42	#5	10'-1"	441.7	s(E)	84	#5	2'-0"		175.2	s11(E)	42	#5	1'-4"	2'-8"	8'-11"		390.6
092-0126	1742+16.65	1'-9"	2'-3"	0'-3"	2'-6"	9'-2"	10.96	h(E)	72	#5	2'-9"		206.5	h7(E)	42	#5	8'-10"	387.0	s(E)	72	#5	2'-0"		150.2	s12(E)	36	#5	1'-5"	2'-8"	9'-1"		341.1
LOC.																																
092-0087	MED	1'-11"	2'-1"	0'-2"	2'-2"	16'-6"	6.03	h(E)	24	#5	2'-9"		68.8	h8(E)	14	#5	16'-2"	236.1	s(E)	44	#5	2'-0"		91.8	s13(E)	22	#5	1'-7"	2'-2"	8'-5"		193.1
1917+83.25	EB	1'-11"	2'-1"	0'-2"	2'-2"	16'-6"	6.03	h(E)	24	#5	2'-9"		68.8	h8(E)	14	#5	16'-2"	236.1	s(E)	44	#5	2'-0"		91.8	s13(E)	22	#5	1'-7"	2'-2"	8'-5"		193.1
092-0129	1971+24.72	1'-11"	2'-1"	0'-3"	2'-6"	9'-3"	14.43	h(E)	72	#5	2'-9"		206.5	h9(E)	42	#5	8'-11"	390.6	s(E)	84	#5	2'-0"		175.2	s14(E)	42	#5	1'-7"	2'-8"	9'-5"		412.5
LOC.																																
092-0084	WB	1'-6"	2'-6"	0'-3"	2'-6"	9'-6"	3.4	h(E)	24	#5	2'-9"		68.8	h10(E)	14	#5	9'-2"	133.9	s(E)	28	#5	2'-0"		58.4	s15(E)	14	#5	1'-2"	2'-8"	8'-7"		125.3
2001+44.74	MED	1'-6"	2'-6"	0'-3"	2'-6"	9'-6"	3.4	h(E)	24	#5	2'-9"		68.8	h10(E)	14	#5	9'-2"	133.9	s(E)	28	#5	2'-0"		58.4	s15(E)	14	#5	1'-2"	2'-8"	8'-7"		125.3
	EB	1'-6"	2'-6"	0'-3"	2'-6"	9'-6"	3.4	h(E)	24	#5	2'-9"		68.8	h10(E)	14	#5	9'-2"	133.9	s(E)	28	#5	2'-0"		58.4	s15(E)	14	#5	1'-2"	2'-8"	8'-7"		125.3
CONCRETE STRUCTURES =							61.1	LBS =				963.5	LBS =				2093.2	LBS =				859.4	LBS =				1906.3	REINFORCEMENT BARS (EPOXY COATED) =				5822.4

CRASHWALL EXTENSION (THREE CIRCULAR COLUMN PIER) (WORK WITH SHEET 84)

STRUCTURE		DIMENSION		CONCRETE STRUCTURES	BAR				BAR				BAR				BAR										
STATION		B (FT)	C (FT)	(CU YD)	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	BAR	QTY	SIZE	LENGTH	LBS	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	BAR	QTY	SIZE	LENGTH	SHAPE	LBS
010-0089	762+00.00	1'-10"	2'-2"	24.3	h(E)	72	#5	2'-9"		206.5	h11(E)	42	#5	12'-3"	536.6	s(E)	108	#5	2'-0"		225.3	s16(E)	54	#5	12'-3"		689.9
CONCRETE STRUCTURES =				24.3	LBS =				206.5	LBS =				536.6	LBS =				225.3	LBS =				689.9			
					BAR				BAR				BAR														
					u(E)	36	#5	12'-7"		472.5	LBS =				472.5	REINFORCEMENT BARS (EPOXY COATED) =				2130.8							

CRASHWALL EXTENSION (FIVE CIRCULAR COLUMN PIER) (WORK WITH SHEET 86)

STRUCTURE		DIMENSION					CONCRETE STRUCTURES	BAR				LOCATION				BAR				BAR												
STATION		B (FT)	C (FT)	F (FT)	G (FT)	H (FT)	(CU YD)	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	LOCATION	BAR	QTY	SIZE	LENGTH	LBS	LOCATION	BAR	QTY	SIZE	LENGTH	SHAPE	LBS	BAR	QTY	SIZE	LENGTH	SHAPE	LBS
092-0051	1697+22.5	1'-10"	2'-2"	10'-3"	11'-2"	9'-3"	128.7	h(E)	144	#5	2'-9"		413.0	F	h12(E)	63	#5	9'-11"	651.6	G	h13(E)	63	#5	10'-10"	679.0	H	h14(E)	126	#5	8'-11"	1171.8	
CONCRETE STRUCTURES =							128.7	LBS =				413.0	LBS =				2502.4															
							LOCATION				BAR				BAR																	
							LBS =				1088.9	LBS =				3334.7	LBS =				2816.1	REINFORCEMENT BARS (EPOXY COATED) =				10155.1						

NOTE:
 WORK TO BE DONE TO ALL PIERS AT EACH STRUCTURE EXCEPT AS NOTED.
 MED INDICATES MEDIAN PIER.
 EB INDICATES EAST BOUND PIER.