

																																		STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS													
																																		GA.																
REINFORCING STEEL																																																		
CLEAR SPAN	CLEAR HEIGHT	BARREL DESIGN NO. 1										BARREL DESIGN NO. 2										WING WALLS AND PARAPETS SAME FOR ALL DEPTHS OF FILL												CLEAR HEIGHT	CLEAR SPAN															
		1.5' TO 12.0' FILL OVER BBL. INCL. PAVING										FOR 12.1' TO 20.0' FILL																																						
		"A" BARS			"B" BARS 1/2" DIA.			"C" BARS 1/2" DIA.		"D" BARS 1/2" DIA.		"A" BARS			"B" BARS 1/2" DIA.			"C" BARS 1/2" DIA.		"D" BARS 1/2" DIA.		"E" BARS 1/2" DIA. AT 12" C. TO C.														"F" BARS 1/2" DIA. AT 12" C. TO C.														
		SIZE	NO.	LENGTH	SPACING	SIZE	NO.	LENGTH	SPACING	SIZE	NO.	LENGTH	SPACING	SIZE	NO.	LENGTH	SPACING	SIZE	NO.	LENGTH	SPACING	4 BARS OF EACH LENGTH														4 BARS OF EACH LENGTH												1/2" DIA.	LENGTH	
4'	5'	3/4" DIA.		5'-0"	6 1/2"	6'-0"	12"	12		10		7/8" DIA.		5'-2"	6"		6'-2"	12"	12		10		7/8" DIA.		5'-2"	6"		6'-2"	12"	12		10		7/8" DIA.		4'														
	2'	5/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	3'-8"	5 1/2"	2'-10"	12"	8		4		5/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	3'-8"	5 1/2"		2'-10"	12"	8		4		3/4" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	3'-8"	5 1/2"		2'-10"	12"	8		4		3/4" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	3'														
3'	3'-8"			5 1/2"	3'-4"	12"	8		6		3'-8"			5 1/2"	3'-10"	12"	8		6		3'-8"	5 1/2"			3'-10"	12"	8		6		3'-8"	5 1/2"	3'-10"			12"	8		6		3'									
4'	2'-6"			4'-8"	7 1/2"	3'-6"	12"	10		6				4'-8"	7 1/2"	4'-0"	12"	10		6		4'-8"			7 1/2"	4'-0"	12"	10		6		4'-8"	7 1/2"			4'-0"	12"	10		6		4'-8"	7 1/2"	4'-0"	12"	10		6		4'
	3'	3/4" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	5'-0"	7"	5'-0"	12"	10		8		3/4" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	5'-0"	7"		5'-0"	12"	10		8		7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	5'-0"	7"		5'-0"	12"	10		8		7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	4'														
4'	5'-8"			6 1/2"	3'-7"	12"	12		6		5'-8"			6 1/2"	4'-1"	12"	12		6		5'-8"	6 1/2"			4'-1"	12"	12		6		5'-8"	6 1/2"	4'-1"			12"	12		6		5'-8"	6 1/2"	4'-1"	12"	12		6		5'	
5'	2'-6"			6'-0"	6 1/2"	6'-1"	12"	12		8				6'-0"	6 1/2"	6'-1"	12"	12		8		6'-0"			6 1/2"	6'-1"	12"	12		8		6'-0"	6 1/2"			6'-1"	12"	12		8		6'-0"	6 1/2"	6'-1"	12"	12		8		5'
6'	3'			6'-10"	6"	4'-2"	12"	14		10				8'-6"	7 1/2"	4'-3"	12"	14		10		8'-6"			7 1/2"	4'-3"	12"	14		10		8'-6"	7 1/2"			4'-3"	12"	14		10		8'-6"	7 1/2"	4'-3"	12"	14		10		5'
	4'	7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	7'-0"	6"	5'-2"	12"	14		8		7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	8'-8"	7"		5'-3"	12"	14		8		7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	8'-8"	7"		5'-3"	12"	14		8		7/8" DIA.	2 x (L" IN INCHES / SPACING) + 2 BARS	6'														
5'	7'-2"			6"	6'-2"	12"	14		10		8'-8"			7"	6'-2"	12"	14		10		8'-8"	7"			6'-2"	12"	14		10		8'-8"	7"	6'-2"			12"	14		10		8'-8"	7"	6'-2"	12"	14		10		6'	
6'	4'			7'-2"	5 1/2"	7'-2"	12"	14		12				9'-0"	7"	6'-4"	12"	14		12		9'-0"			7"	6'-4"	12"	14		12		9'-0"	7"			6'-4"	12"	14		12		9'-0"	7"	6'-4"	12"	14		12		6'
	5'			7'-2"	5 1/2"	7'-2"	12"	14		12				9'-0"	7"	6'-4"	12"	14		12		9'-0"			7"	6'-4"	12"	14		12		9'-0"	7"			6'-4"	12"	14		12		9'-0"	7"	6'-4"	12"	14		12		6'
	6'			7'-2"	5 1/2"	7'-2"	12"	14		12				7'-2"	5 1/2"		7'-2"	12"	14		12				7'-2"	5 1/2"		7'-2"	12"	14		12				7'-2"	5 1/2"		7'-2"	12"	14		12		6'					