

Note to Designer:
 The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DATE	DESCRIPTION OF REVISIONS
1	7-12	Original Issue
2		
3		
4		

STEEL LIST																																
Mark	Qty	Dia.	90° Dia.			96° Dia.			102° Dia.			108° Dia.			114° Dia.			120° Dia.			126° Dia.			132° Dia.			138° Dia.			144° Dia.		
			No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth
a1	A	3	*5	6'-3"	3	*5	6'-6"	3	*5	7'-0"	3	*5	7'-3"	3	*5	7'-9"	3	*5	8'-3"	3	*5	8'-6"	4	*5	8'-9"	4	*5	9'-3"	4	*5	9'-6"	
a2	A	3	*5	7'-6"	3	*5	7'-9"	3	*5	8'-3"	3	*5	8'-6"	3	*5	9'-0"	3	*5	9'-6"	3	*5	9'-9"	3	*5	10'-0"	3	*5	10'-9"	4	*5	11'-0"	
a3	A	3	*5	8'-9"	3	*5	9'-0"	3	*5	9'-6"	3	*5	9'-6"	3	*5	10'-3"	3	*5	10'-6"	3	*5	11'-0"	3	*5	11'-3"	3	*6	12'-0"	3	*6	12'-9"	
a4	A	3	*5	10'-3"	3	*5	10'-0"	3	*5	10'-6"	3	*6	10'-9"	3	*6	11'-6"	3	*6	11'-9"	3	*6	12'-3"	3	*6	12'-6"	3	*7	13'-0"	3	*7	14'-0"	
a5	A	3	*6	11'-6"	2	*6	11'-3"	2	*6	11'-9"	3	*6	12'-0"	3	*7	12'-9"	3	*7	13'-0"	3	*7	13'-6"	3	*7	14'-0"	3	*7	14'-6"	3	*8	15'-0"	
a6	A				2	*6	12'-6"	2	*7	13'-0"	2	*7	13'-3"	2	*7	14'-0"	3	*7	14'-3"	3	*7	14'-9"	3	*7	15'-3"	3	*8	15'-9"	3	*8	16'-3"	
a7	A	3	*5	5'-6"	3	*5	5'-9"	3	*5	6'-0"	3	*5	6'-3"	3	*5	6'-9"	3	*5	7'-0"	3	*5	7'-3"	3	*5	7'-6"	3	*5	8'-0"	3	*5	8'-3"	
a8	A	3	*5	7'-0"	3	*5	7'-3"	3	*5	7'-6"	3	*5	8'-0"	3	*5	8'-3"	3	*5	8'-6"	3	*5	8'-9"	3	*5	9'-0"	3	*5	9'-6"	3	*5	10'-0"	
a9	A	3	*5	8'-9"	3	*5	9'-0"	3	*5	9'-3"	3	*5	9'-6"	3	*5	10'-0"	3	*5	10'-3"	3	*5	10'-6"	3	*5	10'-9"	3	*5	11'-3"	3	*5	11'-6"	
a10	A	2	*5	10'-6"	2	*5	10'-9"	3	*6	11'-0"	3	*6	11'-3"	3	*6	11'-9"	3	*6	12'-0"	3	*6	12'-3"	3	*6	12'-6"	3	*6	12'-9"	3	*6	13'-3"	
a11	A	2	*6	11'-9"	2	*6	12'-3"	2	*7	12'-9"	2	*7	13'-0"	3	*7	13'-6"	3	*7	13'-9"	2	*7	14'-0"	3	*7	14'-6"	3	*7	14'-9"				
a12	A															2	*7	14'-9"	2	*7	15'-3"	2	*8	16'-0"	2	*8	16'-6"					
b1	str	2	*4	15'-6"	2	*4	16'-0"	2	*4	16'-6"	2	*4	17'-0"	2	*4	17'-6"	2	*4	18'-0"	2	*4	18'-6"	2	*4	19'-3"	2	*4	19'-9"	2	*4	20'-3"	
b2	str	4	*4	14'-6"	4	*4	15'-0"	6	*4	15'-6"	6	*4	16'-0"	6	*4	16'-6"	6	*4	17'-0"	8	*4	17'-6"	8	*4	18'-0"	8	*4	18'-6"	8	*4	19'-0"	
b3	str	2	*4	13'-0"	2	*4	14'-6"	2	*4	12'-0"	2	*4	13'-9"	2	*4	15'-0"	2	*4	16'-3"	2	*4	13'-9"	2	*4	14'-9"	2	*4	16'-0"	2	*4	17'-6"	
b4	str	2	*4	9'-3"	2	*4	10'-9"	2	*4	8'-3"	2	*4	10'-0"	2	*4	11'-3"	2	*4	12'-3"	2	*4	10'-0"	2	*4	11'-0"	2	*4	12'-3"	2	*4	13'-6"	
b5	str	2	*4	5'-6"	2	*4	7'-0"	2	*4	4'-9"	2	*4	6'-3"	2	*4	7'-3"	2	*4	8'-3"	2	*4	6'-0"	2	*4	7'-3"	2	*4	8'-3"	2	*4	9'-9"	
b6	str	2	*4	2'-0"	2	*4	3'-3"	2	*4	1'-3"	2	*4	2'-6"	2	*4	3'-6"	2	*4	4'-6"	2	*4	2'-3"	2	*4	3'-6"	2	*4	4'-6"	2	*4	6'-0"	
b7	str	2	*4	13'-6"	2	*4	14'-3"	2	*4	14'-9"	2	*4	15'-3"	2	*4	16'-6"	2	*4	17'-0"	2	*4	17'-6"	2	*4	18'-0"	2	*4	18'-6"	2	*4	18'-6"	
b8	str	4	*4	12'-0"	4	*4	12'-6"	4	*4	13'-0"	4	*4	13'-6"	4	*4	14'-0"	6	*4	14'-6"	6	*4	15'-0"	6	*4	15'-6"	6	*4	16'-0"	6	*4	16'-6"	
b9	str	2	*4	9'-6"	2	*4	10'-6"	2	*4	11'-6"	2	*4	12'-3"	2	*4	13'-6"	2	*4	12'-0"	2	*4	12'-6"	2	*4	13'-9"	2	*4	14'-6"	2	*4	15'-6"	
b10	str	2	*4	6'-9"	2	*4	8'-0"	2	*4	8'-9"	2	*4	9'-6"	2	*4	10'-9"	2	*4	9'-3"	2	*4	9'-9"	2	*4	10'-9"	2	*4	11'-9"	2	*4	12'-6"	
b11	str	2	*4	4'-3"	2	*4	5'-3"	2	*4	6'-3"	2	*4	6'-9"	2	*4	8'-0"	2	*4	6'-6"	2	*4	7'-0"	2	*4	8'-0"	2	*4	9'-0"	2	*4	10'-0"	
b12	str	2	*4	1'-6"	2	*4	2'-9"	2	*4	3'-6"	2	*4	4'-3"	2	*4	5'-3"	2	*4	4'-0"	2	*4	4'-3"	2	*4	5'-3"	2	*4	6'-6"	2	*4	7'-0"	
b13	str							2	*4	1'-0"	2	*4	1'-6"	2	*4	2'-6"	2	*4	1'-3"	2	*4	1'-6"	2	*4	2'-3"	2	*4	3'-9"	2	*4	4'-3"	
b14	str																								2	*4	1'-0"	2	*4	1'-6"		
c	str	5	*4	10'-6"	5	*4	11'-0"	5	*4	11'-6"	5	*4	12'-0"	5	*4	12'-6"	5	*4	13'-0"	5	*4	13'-6"	5	*4	14'-0"	5	*4	14'-6"	5	*4	15'-0"	
d	A	6	*6	12'-3"	6	*6	12'-9"	6	*7	13'-3"	6	*7	13'-9"	6	*7	14'-6"	6	*7	15'-0"	6	*7	15'-6"	6	*7	16'-0"	6	*8	16'-6"	6	*8	17'-0"	
e1	C	3	*5	3'-6"	3	*5	3'-6"	3	*5	3'-9"	3	*5	4'-0"	3	*5	4'-0"	3	*5	4'-3"	3	*5	4'-3"	4	*5	4'-6"	4	*5	4'-9"	4	*5	4'-9"	
e2	C	3	*5	4'-3"	3	*5	4'-3"	3	*5	4'-3"	3	*5	4'-6"	3	*5	4'-9"	3	*5	5'-0"	3	*5	5'-3"	4	*5	5'-6"	4	*5	5'-6"	4	*5	5'-6"	
e3	C	3	*5	4'-9"	3	*5	4'-9"	3	*5	5'-0"	3	*5	5'-3"	3	*5	5'-6"	3	*6	5'-9"	3	*6	5'-9"	3	*6	6'-3"	3	*6	6'-6"	3	*6	6'-6"	
e4	C	3	*5	5'-6"	3	*5	5'-6"	3	*5	5'-6"	3	*6	6'-0"	3	*6	6'-3"	3	*6	6'-6"	3	*6	6'-9"	3	*7	7'-9"	3	*7	8'-0"	3	*7	8'-6"	
e5	C	3	*5	6'-3"	2	*6	6'-0"	2	*6	6'-3"	3	*6	6'-6"	3	*6	7'-0"	3	*7	8'-0"	3	*7	8'-0"	3	*7	8'-9"	3	*7	9'-0"	3	*7	9'-6"	
e6	C				2	*6	6'-9"	2	*6	7'-0"	2	*7	8'-3"	2	*7	8'-6"	3	*8	8'-9"	3	*8	9'-3"	3	*8	9'-9"	3	*8	10'-0"	3	*8	10'-6"	
e7	C	3	*6	6'-6"	3	*6	7'-0"	3	*7	7'-3"	3	*7	8'-6"	3	*7	8'-9"	4	*8	9'-0"	4	*8	9'-6"	4	*8	10'-0"	4	*8	10'-3"	4	*8	10'-9"	
e8	C	9	*6	6'-6"	9	*6	7'-0"	10	*7	8'-6"	10	*7	8'-6"	11	*7	8'-9"	11	*8	9'-0"	12	*8	9'-6"	12	*8	10'-0"	13	*8	10'-3"	13	*9	10'-9"	
e9	C	5	*6	6'-6"	5	*6	7'-0"	5	*7	8'-6"	5	*7	8'-6"	5	*7	8'-9"	6	*8	9'-0"	6	*8	9'-6"	6	*8	10'-0"	6	*8	10'-3"	6	*9	10'-9"	
e10	C	3	*5	6'-3"	2	*5	6'-9"	2	*6	7'-0"	2	*6	7'-3"	2	*7	8'-6"	3	*8	8'-9"	3	*8	9'-3"	2	*7	9'-9"	2	*8	10'-0"	2	*8	10'-3"	
e11	C	3	*5	5'-3"	2	*5	6'-0"	2	*5	6'-3"	3	*5	6'-6"	3	*6	6'-9"	3	*7	7'-9"	3	*7	8'-0"	2	*6	8'-0"	2	*7	9'-0"	3	*7	9'-0"	
e12	C	3	*5	4'-6"	3	*5	5'-0"	3	*5	5'-3"	3	*5	5'-6"	3	*5	5'-9"	3	*6	6'-0"	3	*6	6'-3"	3	*6	7'-0"	3	*6	7'-3"	3	*6	7'-6"	
e13	C	3	*5	3'-6"	3	*5	4'-3"	3	*5	4'-6"	3	*5	4'-9"	3	*5	5'-0"	3	*5	5'-3"	3	*5	5'-3"	3	*5	6'-3"	3	*6	6'-6"	3	*6	6'-6"	
e14	C				3	*5	3'-6"	3	*5	3'-9"	3	*5	4'-0"	3	*5	4'-0"	3	*5	4'-3"	3	*5	4'-3"	3	*5	5'-3"	3	*5	5'-6"	3	*5	5'-6"	
e15	C																							3	*5	4'-6"	3	*5	4'-9"	3	*5	4'-9"
f1	str	3	*4	4'-6"	3	*4	4'-9"	3	*4	5'-3"	3	*4	5'-6"	3	*4	5'-9"	3	*4	6'-3"	3	*4	6'-6"	3	*4	6'-9"	4	*4	7'-3"	4	*4	7'-6"	
f2	str	3	*4	6'-3"	3	*4	6'-9"	3	*4	7'-0"	3	*4	7'-6"	3	*4	7'-9"	3	*4	8'-0"	3	*4	8'-6"	3	*4	8'-9"	3	*4	9'-3"	3	*4	9'-9"	
f3	str	2	*4	8'-0"	2	*4	8'-9"	3	*4	9'-0"	3	*4	9'-3"	3	*4	9'-9"	3	*4	10'-0"	3	*4	10'-3"	3	*4	10'-6"	3	*4	11'-0"	3	*4	11'-6"	
f4	str	2	*4	9'-9"	2	*4	10'-3"	2	*4	10'-9"	2	*4	11'-3"	2	*4	11'-9"	3	*4	11'-9"	3	*4	12'-3"	3	*4	12'-6"	3	*4	13'-0"	3	*4	13'-6"	
f5	str	3	*4	3'-9"	3	*4	4'-0"	3	*4	4'-3"	3	*4	4'-6"	3	*4	4'-9"	3	*4	5'-0"	3	*4	5'-6"	3	*4	5'-6"	3	*4	5'-9"	3	*4	6'-6"	
f6	str	3	*4	6'-6"	3	*4	6'-6"	3	*4	6'-9"	3	*4	7'-3"	3	*4	7'-0"	3	*4	7'-9"	3	*4	8'-0"	3	*4	8'-0"	3	*4	8'-3"	3	*4	8'-9"	
f7	str	2	*4	9'-3"	3	*4	9'-3"	3	*4	9'-6"	3	*4	10'-0"	2	*4	9'-9"	2	*4	10'-3"	2	*4	10'-6"	3	*4	10'-6"	3	*4	11'-0"	3	*4	11'-3"	
f8	str												2	*4	11'-6"	2	*4	11'-9"	2	*4	12'-3"	2	*4	13'-0"	2	*4	13'-6"	2	*4	13'-9"		
g	str	2	*4	9'-3"	2	*4	9'-9"	2	*4	10'-3"	2	*4	10'-9"	2	*4	11'-3"	2	*4	11'-9"	2	*4	12'-3"	2	*4	12'-9"	2	*4	13'-3"	2	*4	13'-9"	
m1	str	4	*4	17'-9"	4	*4	18'-3"	5	*4	19'-0"	5	*4	19'-6"	5	*4	20'-3"	5	*4	20'-9"	6	*4	21'-6"	6	*4	22'-0"	6	*4	22'-6"	6	*4	23'-3"	
m2	str	1	*4	17'-9"	1	*4	18'-3"	1	*4	19'-0"	1	*4	19'-6"	1	*4	20'-3"	1	*4	20'-9"	1	*4	21'-6"										