CLIENT:	SANTA BARBARA
PROJECT:	Charles Meyer Desalination Plant Reactivation
JOB NO.:	8083B.60
DATE:	1/19/2015
BY:	TFS
COMMENTS:	Calculate Max. Intake Through-Screen Velocity @ 10,000 AFY Based on 1991 Design

MAX INTAKE FLOW RATE: INTAKE VELOCITY:	15,898 gallons per 35.4 ft ³ /second 0.1 ft/second	
TOTAL INTAKE OPEN AREA:	569.8 ft ²	
Open Area (Total):	99.6 ft ²	
No. of Intakes	2	
Subtotal Open Area Panel Area 3:	17.8 ft ²	
No. of Obstrutions	2	
Panel Area 3 Obstruction Dim 2:	55 inch	4.583333 ft
Panel Area 3 Obstruction Dim 1:	8 inch	0.666667 ft
No. of Panel Area 3	1	
Panel Area 3 Screen Dim. 2:	72 inch	6 ft
Panel Area 3 Screen Dim. 1:	69 inch	5.75 ft
Subtotal Open Area Panel Area 2:	17.7 ft ²	
No. of Panel Area 2	2	
Panel Area 2 Screen Dim. 2:	32 inch	2.666667 ft
Panel Area 2 Screen Dim. 1:	57.5 inch	4.791667 ft
Subtotal Open Area Panel Area 1:	-14.2 ft^2	
No. of Panel Area 1	2	2.000007 11
Panel Area 1 Screen Dim. 1:	32 inch	2.666667 ft
Panel Area 1 Screen Dim. 1:	46 inch	3.833333 ft
Opening Width: Screen Opening Cross Member:	0.25 inch	0.104167 ft 0.020833 ft
Opening Length:	1.25 inch 1.25 inch	0.104167 ft
P PANELS	1 OF inch	0 1041/7 ft
Open Area (Total):	470.25 ft ²	
No. of Intakes	2	
No. of Panels per Intake	16	
No. of Horizontal Openings:	11 per Panel	
No. of Vertical Openings:	96 per Panel	
Opening Width:	3.5625 inch	0.296875 ft
Opening Length:	0.5625 inch	0.046875 ft

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