Track Dimension Summary: 7.0 m Radius, 100.000 m Skated Track

	Description	Formula For Calculation	Value
	Straights		
L_1	Total Length of Straights	$TD_2 - C_2$	52.876
L_2	Length of One Straight	$L_1/2$	26.438
L_3	Length of 1/2 of One Straight	$L_1/4$	13.219
T_1	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	14.958
T_2	Start of Curve to Start of Curve (Measured on a diagonal)	T_1*2	29.916
A_1	Mid-Point of Curve to Mid-Point of Curve	$L_2 + (R_1*2)$	40.438
A_2	Center to Mid-Point of Curve	$A_1/2$	20.219
	Curves		
R_1	Layout Curve Radius	**Curve Radius**	**7.000**
R_2	Skated Radius	$R_1 + 0.500$	7.500
C_1	Marked Track Curve Distance	$2*R_1*PI$	43.982
C_2	Skated Track Curve Distance	$2*R_2*PI$	47.124
a	Arc Length Between 2 Blocks	$C_1/12$	3.665
$\emptyset$	Angle Between Blocks From Radius Center (Radians)	a/R_1	0.52360
CD	Chord Distance Between Blocks	$2*R_1 \cdot \sin(\emptyset/2)$	3.623
	Total Distance		
TD_1	Total Distance at Blocks	$L_1 + C_1$	96.858
TD_2	Total Distance Skated Track	**Total Track Skated**	**100.000**

Track Dimension Summary: 8.0 m Radius, 111.120 m Skated Track

	Description	Formula For Calculation	Value
	Straights		
L_1	Total Length of Straights	$TD_2 - C_2$	57.713
L_2	Length of One Straight	$L_1/2$	28.856
L_3	Length of 1/2 of One Straight	$L_1/4$	14.428
T_1	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	16.498
T_2	Start of Curve to Start of Curve (Measured on a diagonal)	T_1*2	32.995
A_1	Mid-Point of Curve to Mid-Point of Curve	$L_2 + (R_1*2)$	44.856
A_2	Center to Mid-Point of Curve	$A_1/2$	22.428
	Curves		
R_1	Layout Curve Radius	**Curve Radius**	**8.000**
R_2	Skated Radius	$R_1 + 0.500$	8.500
C_1	Marked Track Curve Distance	$2*R_1*PI$	50.265
C_2	Skated Track Curve Distance	$2*R_2*PI$	53.407
a	Arc Length Between 2 Blocks	$C_1/12$	4.189
$\emptyset$	Angle Between Blocks From Radius Center (Radians)	a/R_1	0.52360
CD	Chord Distance Between Blocks	$2*R_1 \cdot \sin(\emptyset/2)$	4.141
	Total Distance		
TD_1	Total Distance at Blocks	$L_1 + C_1$	107.978
TD_2	Total Distance Skated Track	**Total Track Skated**	**111.120**

60.960 m (200')

START/FINISH LINE

UNFLOODED ICE

30.480 m (100')

UNFLOODED ICE

EDGE OF 100' x 200' ICE
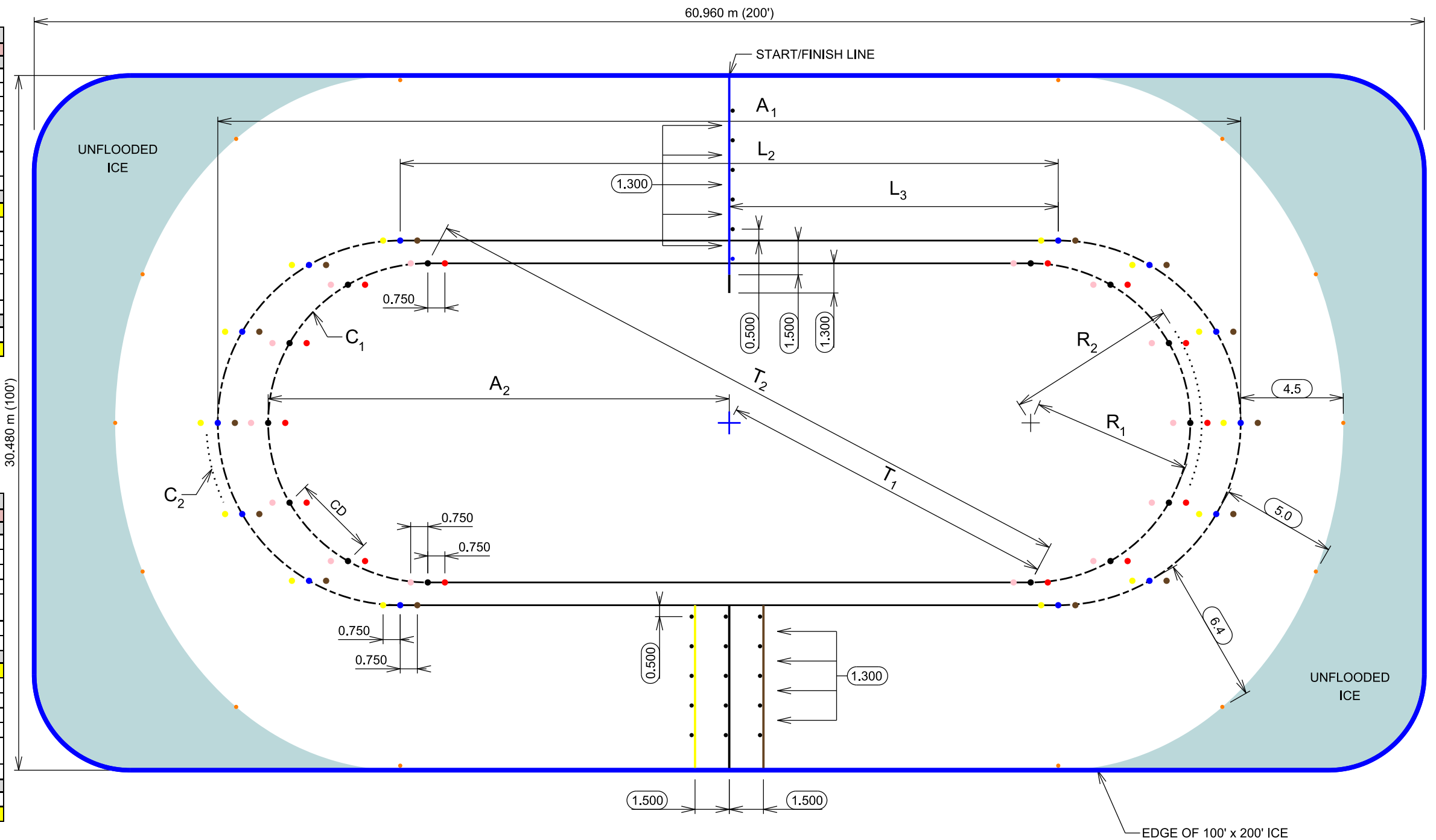
NOTE: PRINT DIAGRAM ON 11" X 17 " PAPER

PROJECT TITLE

100 m & 111.120m Racing Tracks on 30.480m x 60.960m Ice

DRAWING TITLE

7 m Radius / 100.000 m Skated
8 m Radius / 111.120 m Skated