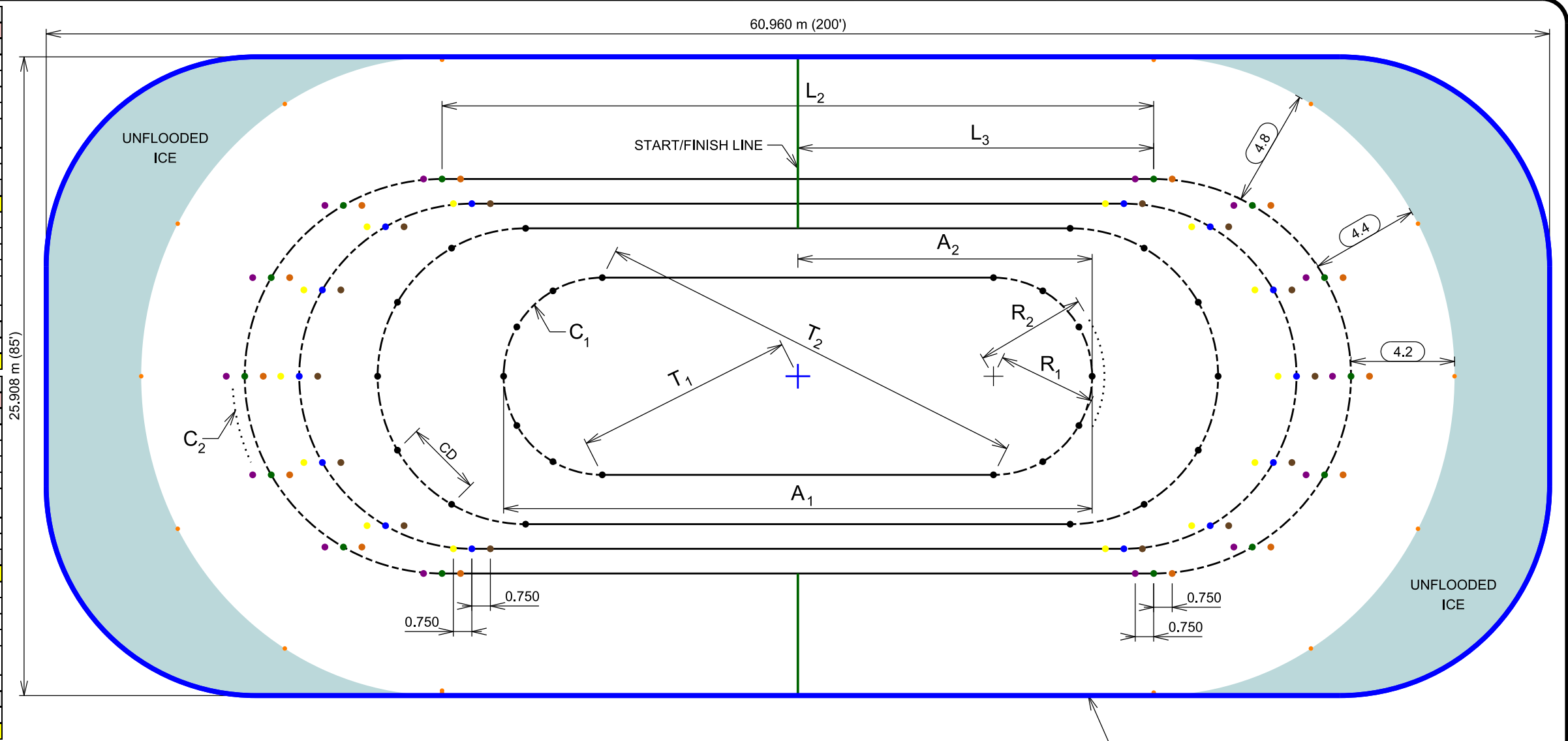


Track Dimension Summary: 4.0 m Radius, 60.000 m Skated Track			
Description	Formula For Calculation	Value	
Straights			
L ₁	Total Length of Straights	TD ₂ - C ₂	31.726
L ₂	Length of One Straight	L ₁ /2	15.863
L ₃	Length of 1/2 of One Straight	L ₁ /4	7.931
T ₁	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	8.883
T ₂	Start of Curve to Start of Curve (Measured on a diagonal)	T ₁ *2	17.766
A ₁	Mid-Point of Curve to Mid-Point of Curve	L ₂ + (R ₁ *2)	23.863
A ₂	Center to Mid-Point of Curve	A ₁ /2	11.931
Curves			
R ₁	Layout Curve Radius	Curve Radius	4.000
R ₂	Skated Radius	R ₁ + 0.500	4.500
C ₁	Marked Track Curve Distance	2*R ₁ *PI	25.133
C ₂	Skated Track Curve Distance	2*R ₂ *PI	28.274
a	Arc Length Between 2 Blocks	C ₁ /12	2.094
∅	Angle Between Blocks From Radius Center (Radians)	a/R ₁	0.52360
CD	Chord Distance Between Blocks	2*R ₁ *sin(∅/2)	2.071
Total Distance			
TD ₁	Total Distance at Blocks	L ₁ + C ₁	56.858
TD ₂	Total Distance Skated Track	Total Track Skated	60.000

Track Dimension Summary: 6.0 m Radius, 85.000 m Skated Track			
Description	Formula For Calculation	Value	
Straights			
L ₁	Total Length of Straights	TD ₂ - C ₂	44.159
L ₂	Length of One Straight	L ₁ /2	22.080
L ₃	Length of 1/2 of One Straight	L ₁ /4	11.040
T ₁	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	12.565
T ₂	Start of Curve to Start of Curve (Measured on a diagonal)	T ₁ *2	25.130
A ₁	Mid-Point of Curve to Mid-Point of Curve	L ₂ + (R ₁ *2)	34.080
A ₂	Center to Mid-Point of Curve	A ₁ /2	17.040
Curves			
R ₁	Layout Curve Radius	Curve Radius	6.000
R ₂	Skated Radius	R ₁ + 0.500	6.500
C ₁	Marked Track Curve Distance	2*R ₁ *PI	37.699
C ₂	Skated Track Curve Distance	2*R ₂ *PI	40.841
a	Arc Length Between 2 Blocks	C ₁ /12	3.142
∅	Angle Between Blocks From Radius Center (Radians)	a/R ₁	0.52360
CD	Chord Distance Between Blocks	2*R ₁ *sin(∅/2)	3.106
Total Distance			
TD ₁	Total Distance at Blocks	L ₁ + C ₁	81.858
TD ₂	Total Distance Skated Track	Total Track Skated	85.000

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
∅	Angle Between Blocks From Radius Center (Radians)	a/R ₁	0.52360
CD	Chord Distance Between Blocks	2*R ₁ *sin(∅/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
∅	Angle Between Blocks From Radius Center (Radians)	a/R ₁	0.52360
CD	Chord Distance Between Blocks	2*R ₁ *sin(∅/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

NOTE: PRINT DIAGRAM ON 11" X 17" PAPER

DWN. BY A. PHINNEY DATE Sept 17, 2010

DWG No. SSC2010-002 REV.

SCALE 1:200

PROJECT TITLE

60 m, 85 m, 100 m & 111.12 m Training Tracks on 25.908 m x 60.960 m Ice

DRAWING TITLE

4 m Radius / 60.000 m Skated
 6 m Radius / 85.000 m Skated
 7 m Radius / 100.000 m Skated
 8 m Radius / 111.120 m Skated

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CANADA