

lightsout DESIGN

Mission Statement:

To deliver innovative designs, with an integrated, streamlined approach to building systems and construction management

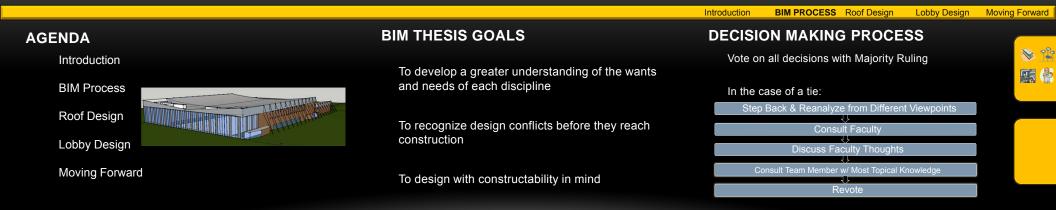








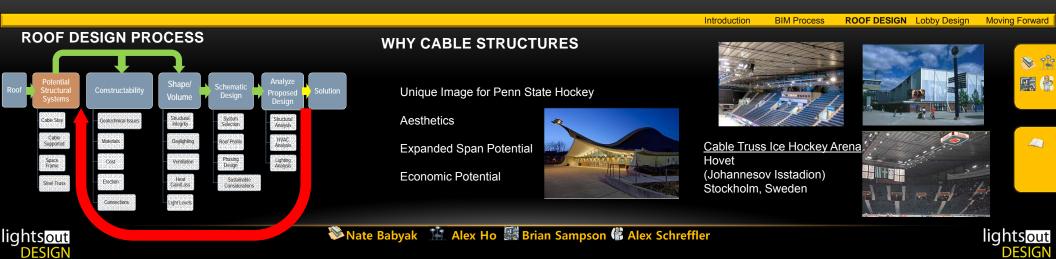


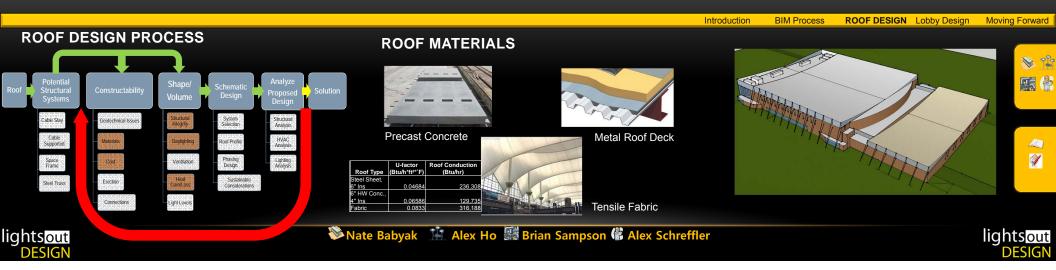


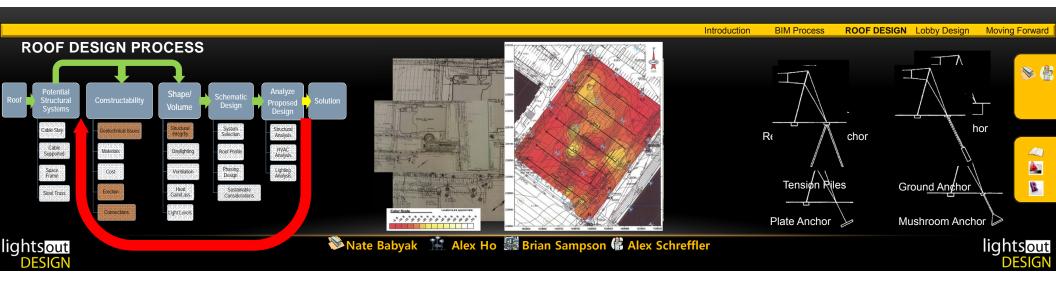
Nate Babyak 🕍 Alex Ho 🎆 Brian Sampson 🕏 Alex Schreffler

lightsout

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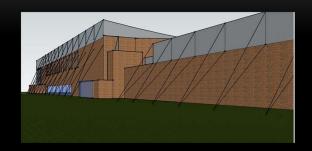
Introduction BIM Process Roof Design Lobby Design MOVING FORWARD

MOVING FORWARD

Main Roofs Anchorage Community Rink Confirm Shape

Erection Process Resolve Roof Daylighting Analysis
Resolve Material Cost Acoustic Investigation

Main Lobby
Shading Orientation for Views
Structural Detailing
Coordinate Mechanical Shafts



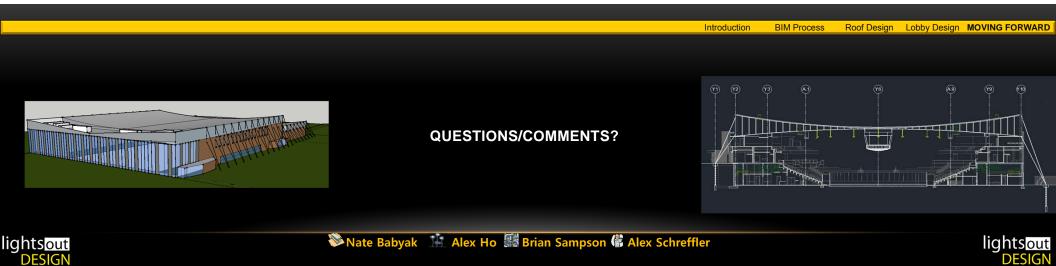


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SINGLE CURVATURE FORCES

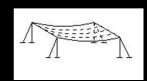
Uniformly Loaded Cables w/ Horizontal Chords M_{max}= 1/8(wl^2) H= M/f T_{max} = (V^2+H^2)^.5 SL= 34 psf 50 psf 0 psf LL= 0 psf 84 psf Total=

5' Spacing		Span Length, I=		252	ft
w=	0.42	klf			
Cable sag, f, (ft)	M _{max} (k-ft)	H (k)	V (k)	T _{max} (k)	
5	3333.96	666.792	52.92	668.8887	
7.5	3333.96	444.528	52.92	447.6669	
10	3333.96	333.396	52.92	337.5699	
12.5	3333.96	266.7168	52.92	271.9161	
15	3333.96	222.264	52.92	228.4772	
17.5	3333.96	190.512	52.92	197.7254	
20	3333.96	166.698	52.92	174.8964	

7.5' Spacing		Span Length, I=		252	ft
w=	0.63	klf			
Cable sag, f, (ft)	M _{max} (k-ft)	H (k)	V (k)	T _{max} (k)	
5	5000.94	1000.188	79.38	1003.333	
7.5	5000.94	666.792	79.38	671.5004	
10	5000.94	500.094	79.38	506.3548	
12.5	5000.94	400.0752	79.38	407.8742	
15	5000.94	333.396	79.38	342.7157	
17.5	5000.94	285.768	79.38	296.5882	
20	5000.94	250 047	79.38	262 3446	



Roof Design Lobby Design Moving Forward APPENDIX













Introduction

BIM Process









