

SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY

Board Members

C. April Boling
Board Chair

Greg Cox
Jim Desmond
Robert H. Gleason
Lloyd B. Hubbs
Jim Janney
Mark Kersey
Paul Robinson
Mary Sessom

Ex-Officio Board Members

Laurie Berman
Eraina Ortega
Col. Jason Woodworth

President / CEO

Thella F. Bowens

SPECIAL AIRPORT ART ADVISORY COMMITTEE

AGENDA

Thursday, January 26, 2017
3:30 p.m.

San Diego International Airport
SDCRAA Administration Building – Third Floor
Board Room
3225 N. Harbor Drive
San Diego, CA 92101

This Agenda contains a brief general description of each item to be considered. If comments are made to the Committee without prior notice, or are not listed on the Agenda, no specific answers or responses should be expected at this meeting pursuant to State law.

Copies of written documentation relating to each item of business on the Agenda are on file in the Airport Authority's office and are available for public inspection.

PLEASE COMPLETE A "REQUEST TO SPEAK" FORM PRIOR TO THE COMMENCEMENT OF THE MEETING AND SUBMIT IT TO THE LIAISON OF THE COMMITTEE.

The Authority has identified a local company to provide oral interpreter and translation services for public meetings. If you require oral interpreter or translation services, please telephone the Corporate & Information Governance /Authority Clerk Department with your request at (619) 400-2400 at least three (3) working days prior to the meeting.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

Committee Members: Bob Bolton, Ben Fyffe, Indra Gardiner, Robert H. Gleason, Diana Lucero, Chike Nwoffiah, Gail Roberts, Michael Soriano, Deborah Van Huis

NON AGENDA PUBLIC COMMENT:

Non-Agenda Public Comment is reserved for members of the public wishing to address the Committee on any matter for which another opportunity to speak **is not provided on the Agenda**, and which is within the jurisdiction of the Committee. Please submit a completed speaker slip to the Clerk of the Committee. ***Each individual speaker is limited to three (3) minutes.***

NEW BUSINESS:

1. **ACTION – APPROVAL OF MINUTES:**
RECOMMENDATION: Approve the minutes from the November 15, 2016 special meeting.
2. **PRESENTATION – PARKING PLAZA PUBLIC ART PROJECT:**
Presented by Benjamin Ball and Gaston Nogues, Ball-Nogues Studio
3. **PRESENTATION – AIRPORT DEVELOPMENT PLAN BRIEFING:**
Presented by Angela Jamison, Acting Director, Airport Planning & Noise Mitigation
4. **DISCUSSION –COMMUTER TERMINAL EXTERIOR WALL PUBLIC ART:**
RECOMMENDATION: Provide feedback to Arts Program staff on the installation schedule and Authority-wide engagement regarding mural selection.

OLD BUSINESS

5. **STAFF UPDATES:**
 - **Public Art**
 - **Temporary Exhibitions**
 - **Performing Arts Program**
 - **Arts Master Plan**

COMMITTEE MEMBER COMMENTS:

Each committee member speaker is limited to five (5) minutes.

ADJOURNMENT:

NOTE: Members of the public wishing to address the Committee on Agenda Items must submit a speaker slip to the Liaison of the Committee. When called to speak, please state your name and city of residence for the record. Each speaker is limited to three (3) minutes per Agenda Item.

This information is available in alternative formats upon request. To request an Agenda in an alternative format, or to request a sign language or oral interpreter, or an Assistive Listening Device (ALD) for the meeting, please telephone the Authority Clerk's Office at (619) 400-2400 at least three (3) working days prior to the meeting to ensure availability.

For your convenience, the agenda is also available to you on our website at www.san.org.

DRAFT
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY
ART ADVISORY COMMITTEE (AAC)
MEETING MINUTES: TUESDAY, NOVEMBER 15, 2016
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY ADMINISTRATION BUILDING
BOARD ROOM, 3RD FLOOR

CALL TO ORDER: AAC Committee Chair Indra Gardiner called the meeting of the Art Advisory Committee to order at 3:35 p.m. on Tuesday, November 15, 2016, at San Diego International Airport, Administration Building Board Room, 3225 N. Harbor Drive, San Diego, CA 92101.

ROLL CALL

AAC Members Present:

Bob Bolton	Director, Airport Design and Construction
Ben Fyffe	Deputy Director, City of El Paso Museums & Cultural Affairs
Indra Gardiner	Founder/Chief Influence Officer, i.d.e.a.
Robert H. Gleason	Board Member, Airport Authority
Diana Lucero	Director, Vision, Voice & Engagement, Airport Authority
Chike Nwoffiah	Executive Director, Oriki Theater
Gail Roberts	Professor, University of California San Diego
Michael Soriano	Owner, Onairos Design

AAC Members Absent:

Deborah Van Huis	Owner, Expertise on Demand
------------------	----------------------------

Airport Authority Staff Present:

Chris Chalupsky	Senior Manager, Arts & Community Partnerships
Karla Cook	Arts Program Coordinator
Lauren Lockhart	Arts Program Manager
Tony Russell	Director, Corporate & Information Governance/Authority Clerk

PLEDGE OF ALLEGIANCE: Gardiner led the pledge of allegiance.

NEW BUSINESS:

- 1. ACTION - APPROVAL OF MINUTES:** Committee Member Robert Gleason moved to approve the minutes of the September 7, 2016 meeting. The Motion was seconded by Committee Member Michael Soriano. **Motion Passed unanimously.**
- 2. ACTION - ELECTION OF COMMITTEE OFFICER:** Gardiner moved to appoint Committee Member Gail Roberts as the Vice Chair. The Motion was seconded by Gleason. **Motion Passed unanimously.**
- 3. PRESENTATION - PARKING PLAZA LOBBY STAIR PUBLIC ART OPPORTUNITY UPDATE:** Artist Mark Reigelman presented an overview his Schematic Design Proposal for the Parking Plaza Lobby Stairs Public Art Project. Committee Member Ben Fyffe and Soriano shared concerns of direct sunlight exposure and inquired about the colorfastness. Reigelman shared that the paint used to coat the sculpture would be of an automobile paint quality with a lifespan of 15-20 years. The committee expressed concerns about maintenance and conservation of individual planes. Arts Program Manager Lauren Lockhart shared that the artist will meet with the airport's on-call art conservator to discuss fabrication and materials and the artist will keep in mind the attachment method of the final design to address the committee's concerns. Fyffe and Gardinar also expressed

concerns regarding the aesthetics and safety of the railing at the base of each sculpture. Reigelman will incorporate the committee's feedback in his Design Development Proposal.

4. ACTION - AAPROVE RECOMMENDED GROUP FOR PERFORMING ARTS RESIDENCY

PROGRAM: Senior Manager Chris Chalupsky gave an overview of the Performing Arts Residency Program Opportunity. He shared that the program received 18 responsive submissions. Committee Member Chike Nwoffiah shared his positive experience on the panel and provided feedback on the high caliber of submissions received. He suggested having a second opportunity, if permitted, to run concurrently for a shorter amount of time, or to split the annual residency budget to serve more groups or individuals through this program or other performing art opportunities at the airport. Chalupsky stated that the Arts Program would make an effort to engage the finalists through the Ongoing Concerts Series. Gleason praised staff of advertising the opportunity to so many outlets and with such a wide reach. Ultimately, the panel recommended transcDANCE as they were impressed with the organization's multi-disciplinary approach of presenting dance performances and their demonstrated ability to engage diverse audiences. Fyffe moved to approve transcDANCE as the recommended group for the Performing Arts Residency Program. The Motion was seconded by Nwoffiah. **Motion Passed unanimously.**

5. ACTION - APPROVE FEDERAL INSPECTION SERVICES FACILITY (FIS) PUBLIC ART

OPPORTUNITIES: Lockhart gave an overview of the airport's plans to respond to the rapid growth in international arrival activities anticipated in 2017 and beyond. She stated that SAN will re-conceive a Federal Inspection Services Facility (FIS) that: adds greater flexibility; increases FIS capacity level; and utilizes the newest processing efficiency introduced by Customs and Border Protection. Lockhart presented two public art opportunity descriptions for the FIS project. Gardiner moved to approve the FIS public art opportunities. The Motion was seconded by Roberts. **Motion Passed unanimously.**

6. ACTION - APPOINT ARTIST SELECTION PANEL MEMBERS: Lockhart presented a list of five qualified art professionals to review submissions for both FIS public art opportunities. She explained that given the high accelerated timeline of these projects, staff will release a single Request For Qualifications, and have the panel review submissions for both opportunities. Should staff need to find an alternative panelist, Fyffe suggested reaching out to an individual with a visitor experience background. Gardiner inquired about how alternative panelists are selected and if they are approved by the committee. Lockhart explained that when scheduling conflicts occur, staff must act quickly to find qualified alternate panelists who are able to commit to the panel meeting dates in order to stay on schedule. Nwoffiah moved to appoint the artist selection panel members. The Motion was seconded by Gleason. **Motion Passed unanimously.**

It was agreed that Fyffe would serve as the committee liaison on the panel.

OLD BUSINESS

7. STAFF UPDATES:

— **Public Art:**

- 3rd Rental Car Center Public Art Project: Lockhart gave an update on Ueberall International and E Ink's progress since their last phase of rigorous testing of the panels and system hardware. She stated that staff would request an extension to the agreement with Ueberall by three months to provide additional time for fabrication and installation of the *Dazzle* artwork.
- Palm Street Park Public Art Project: Lockhart shared that Legge Lewis Legge is

nearly complete with Constructions Documents and the Authority will soon move forward to solicit a General Contractor to construct the design.

- Parking Plaza Public Art Project: Lockhart reviewed Ball-Nogues Studio's progress on their Design Development (DD) phase. She shared that the artist team will present their DD proposal to the committee at the next meeting.
- Bill Walton Statue Proposal: Lockhart gave an update regarding the proposed artwork donation. Gleason encouraged committee members to attend an upcoming Authority Board meeting during which the statue and Authority Policy 8.50 will be discussed.
- 2nd Rental Car Center Public Art Project: Lockhart informed the committee that repairs to *Autoplast II: Side Mirror Hive* will be completed by the end of 2016.

— **Temporary Exhibitions:**

- *Intergalactic Dreaming*: Lockhart shared updates regarding preparations for the 2017 exhibition and highlights from High Tech High Chula Vista's student workshop(s) with artist Don Porcella. She informed the committee that staff will have 4 out of 14 displays in the exhibition installed before the Thanksgiving holiday.

— **Performing Arts Program:**

- Chalupsky shared highlights from recent performances by Fern Street Circus and Jean Isaac's Dance Theater, as well as related press.
- Chalupsky informed the committee that approximately 12 individuals attended the Performing Arts Residency Program Information Session held at the airport on October 6, 2016.

— **Arts Master Plan:**

- Chalupsky shared that the Arts Master Plan will be moving forward in conjunction with SAN's Airport Development Plan (ADP). A solicitation for an Arts Master Plan consultant will be released next month. Gleason asked for staff to share the opportunity with the committee to assist in outreach efforts.

OLD BUSINESS:

None

COMMITTEE MEMBER REPORTS/ COMMENTS:

None

ADJOURNMENT: The meeting was adjourned at 5:05 p.m.

APPROVED BY A MOTION OF THE AIRPORT ART ADVISORY COMMITTEE MEETING ON THE TWENTY-SIXTH DAY OF JANUARY, 2017.

LAUREN LOCKHART
ARTS PROGRAM MANAGER

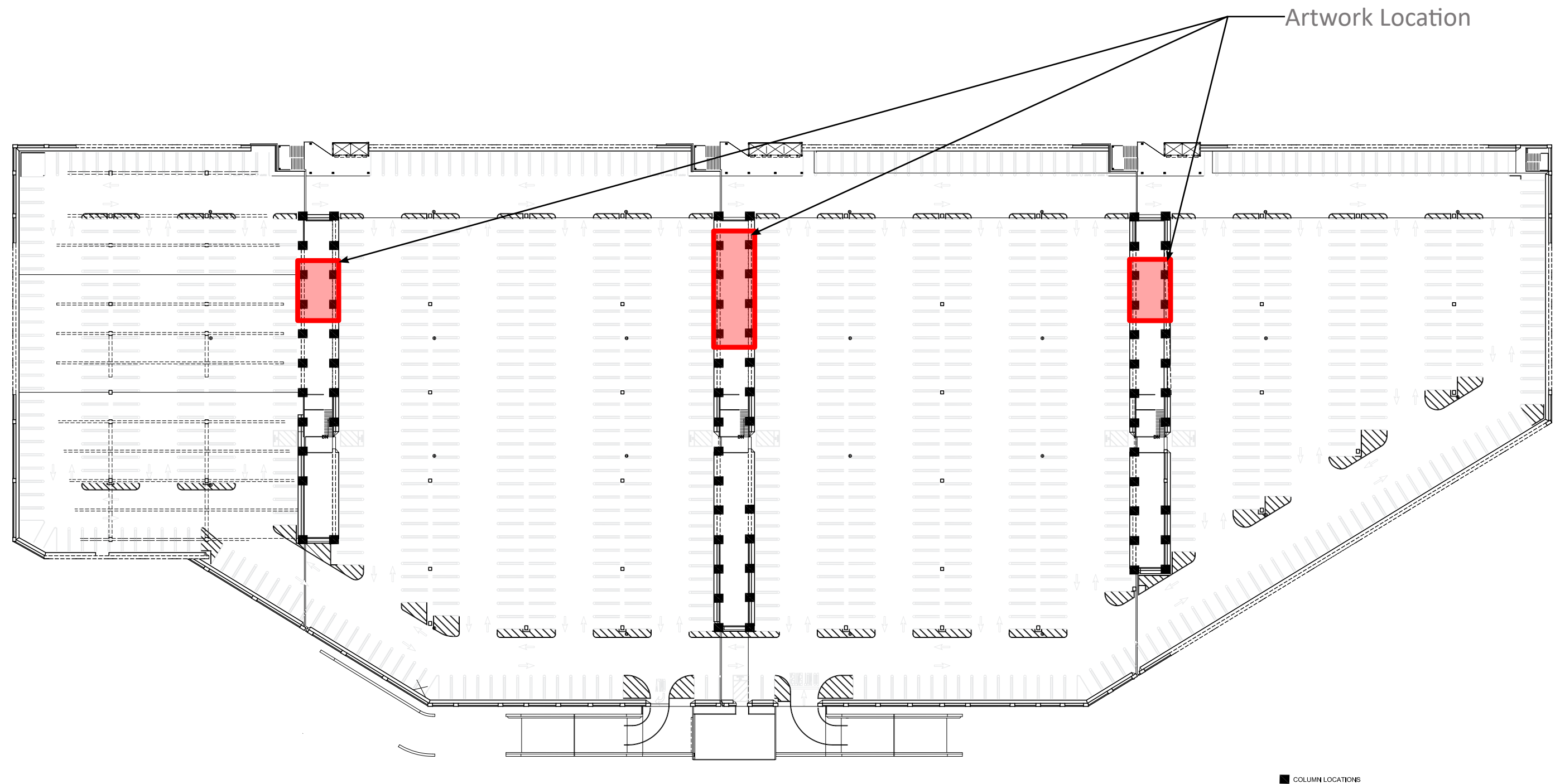
“Boulevard” (working title)

San Diego International Airport
Phase 6 - Design Development Proposal Review

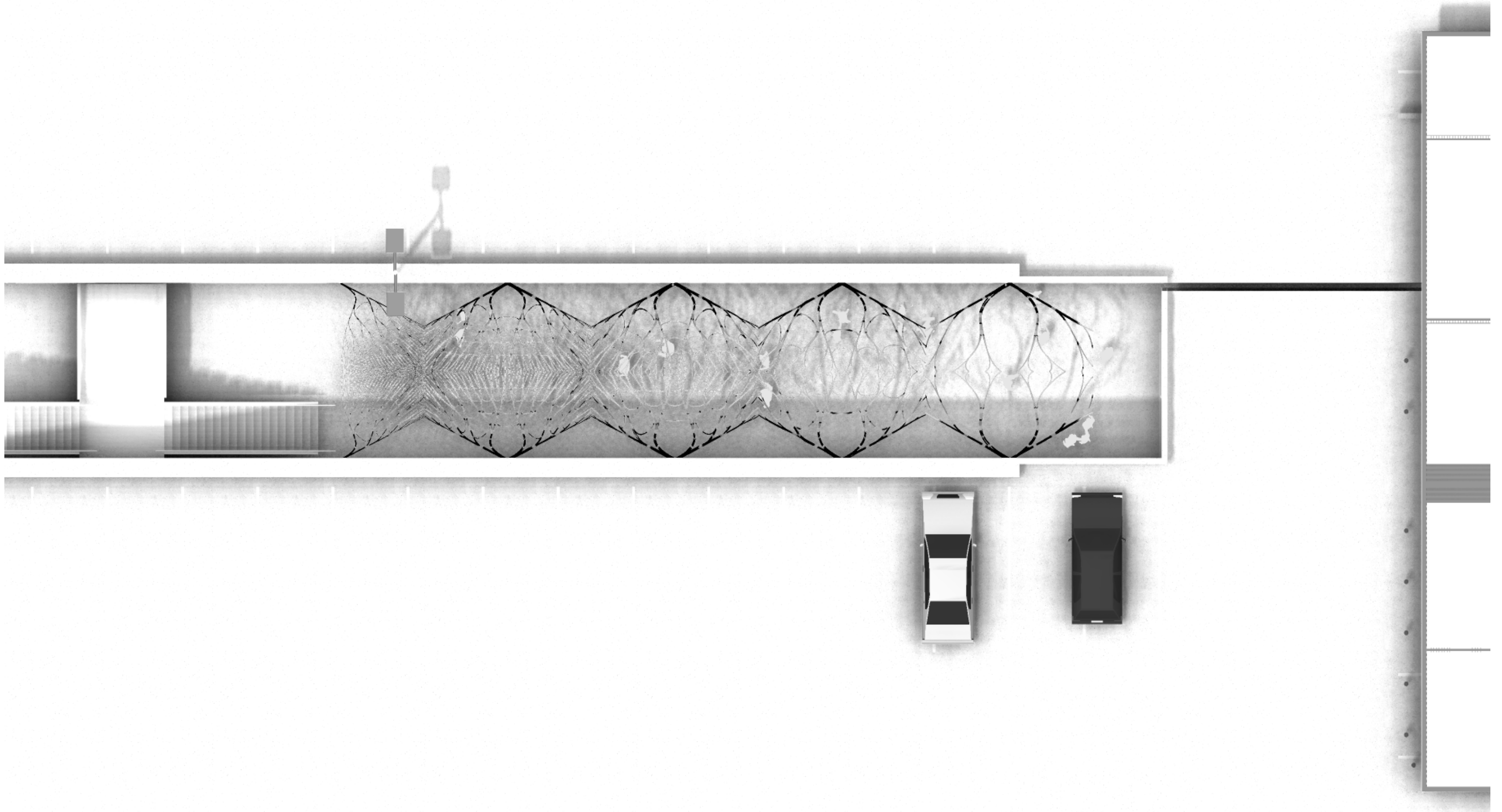


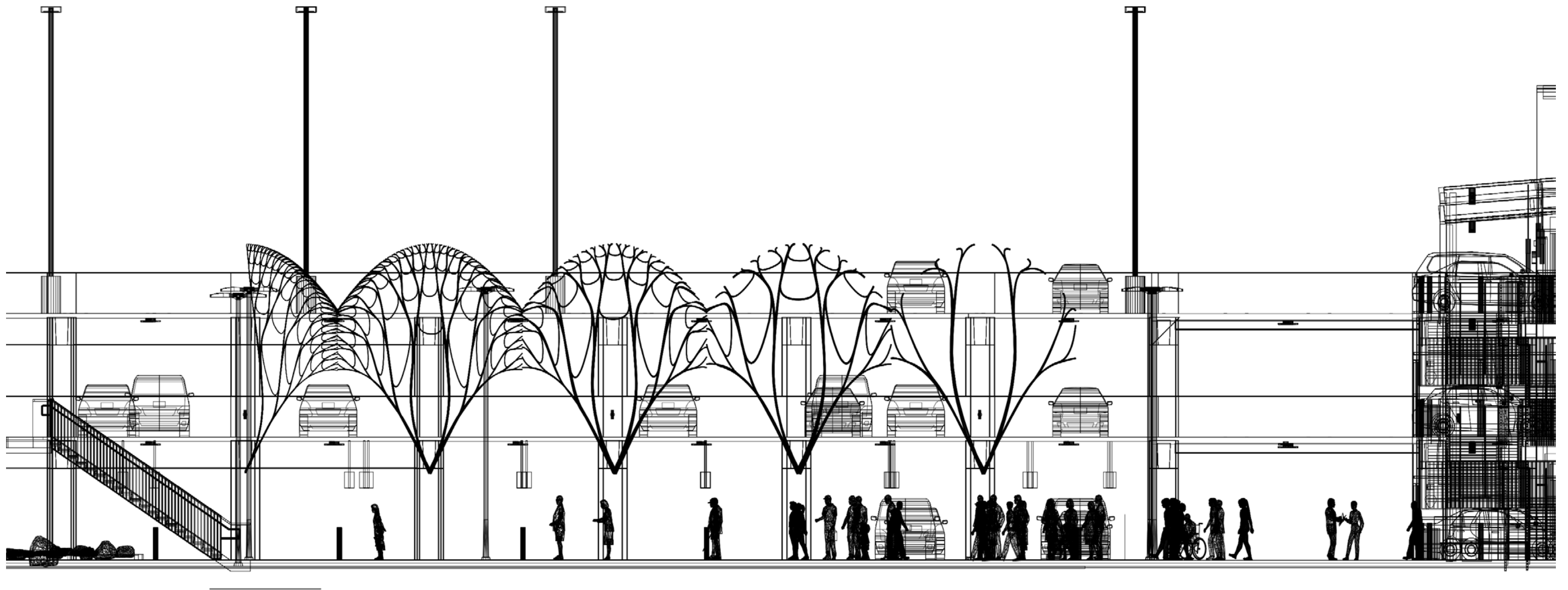
BALL-NOGUES STUDIO

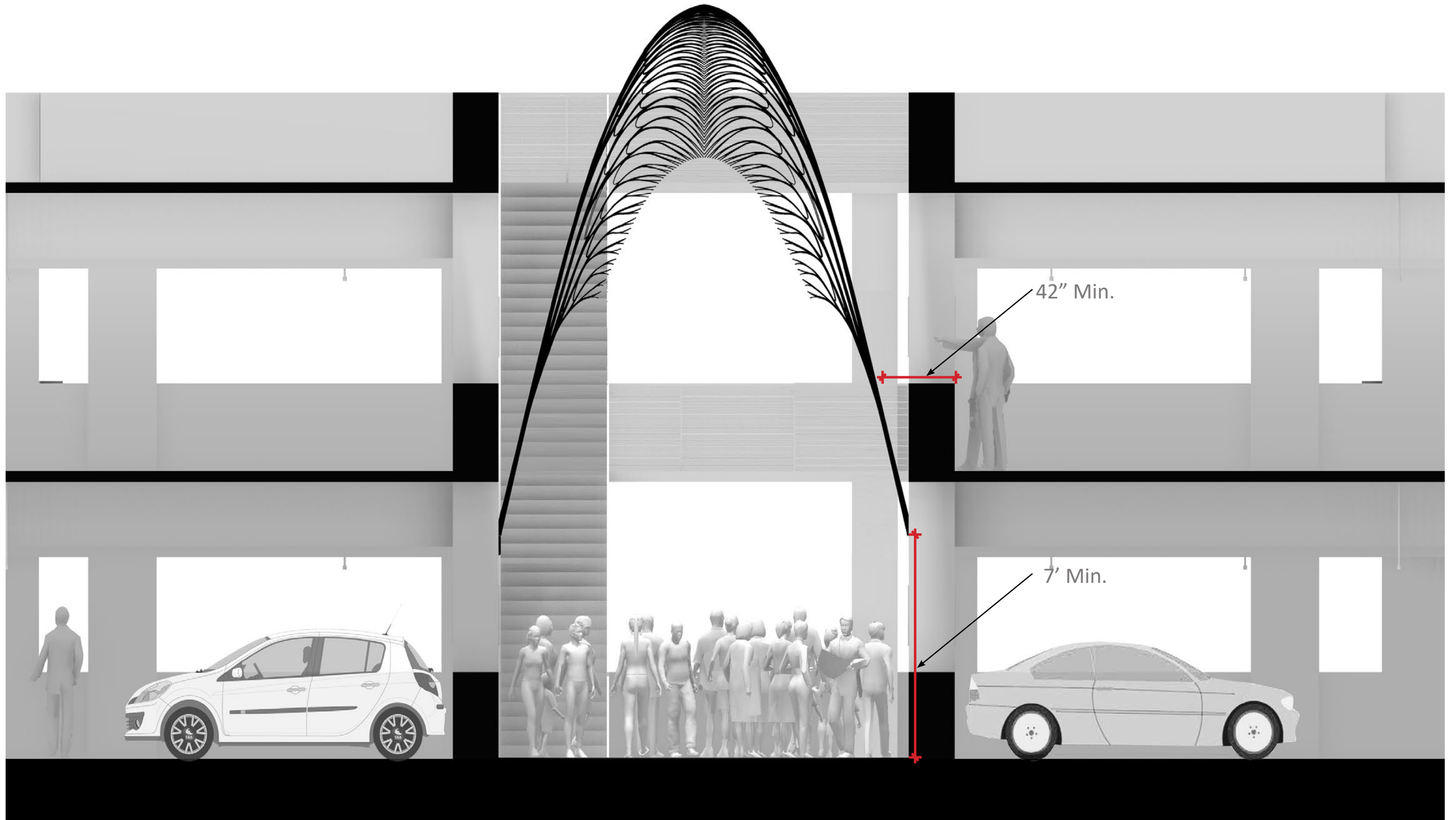
January 2017

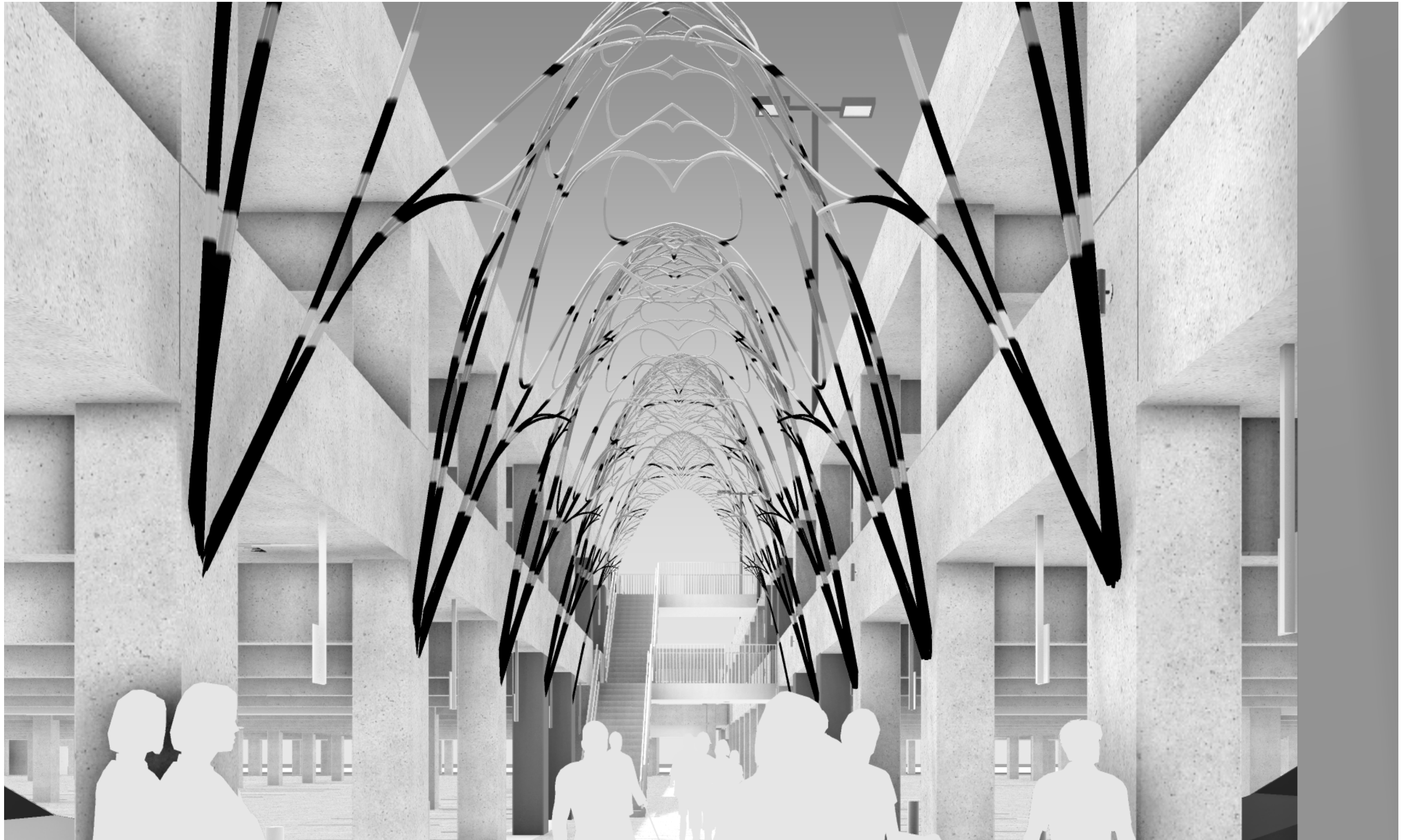


Location and amount subject to change

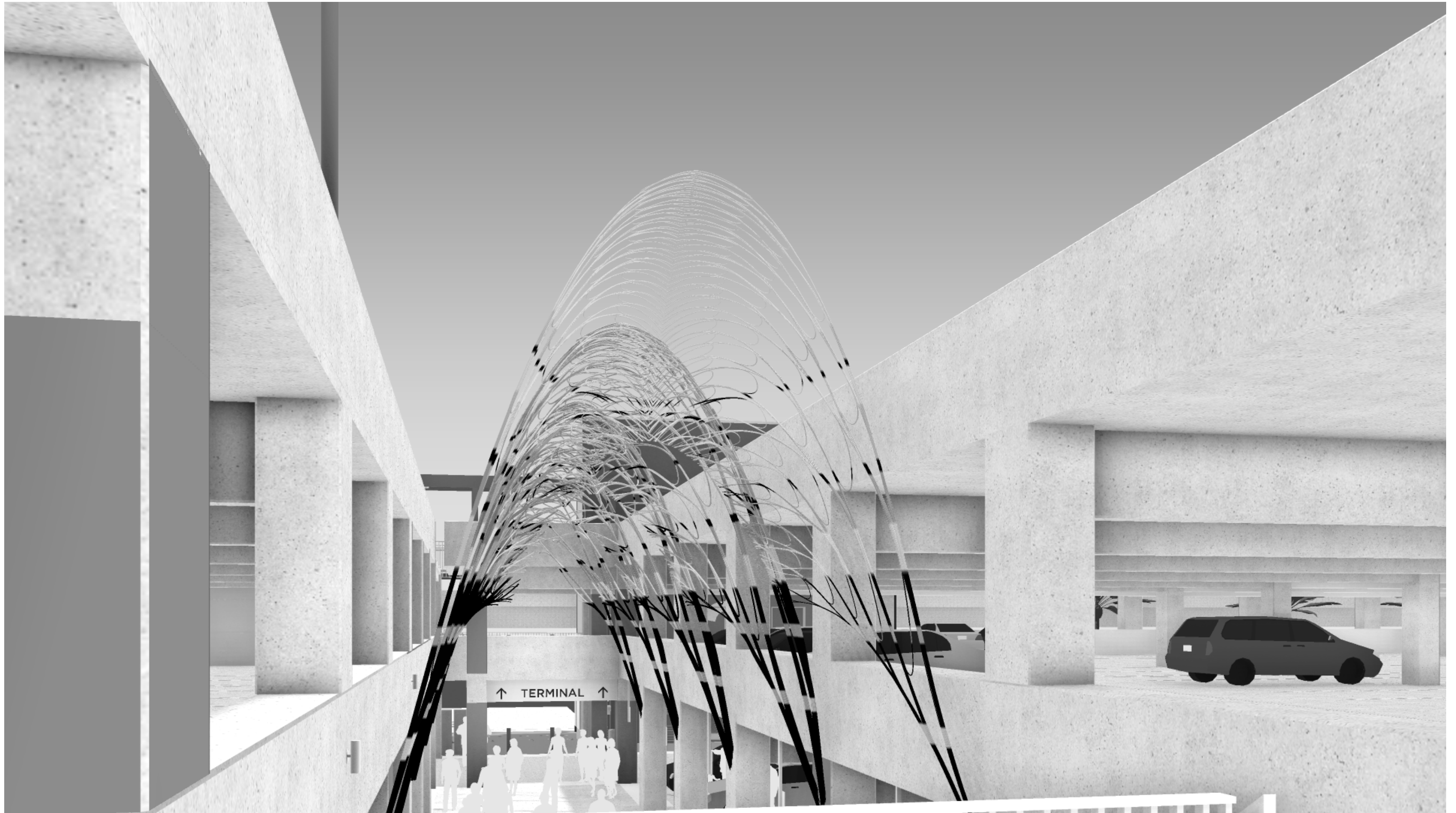




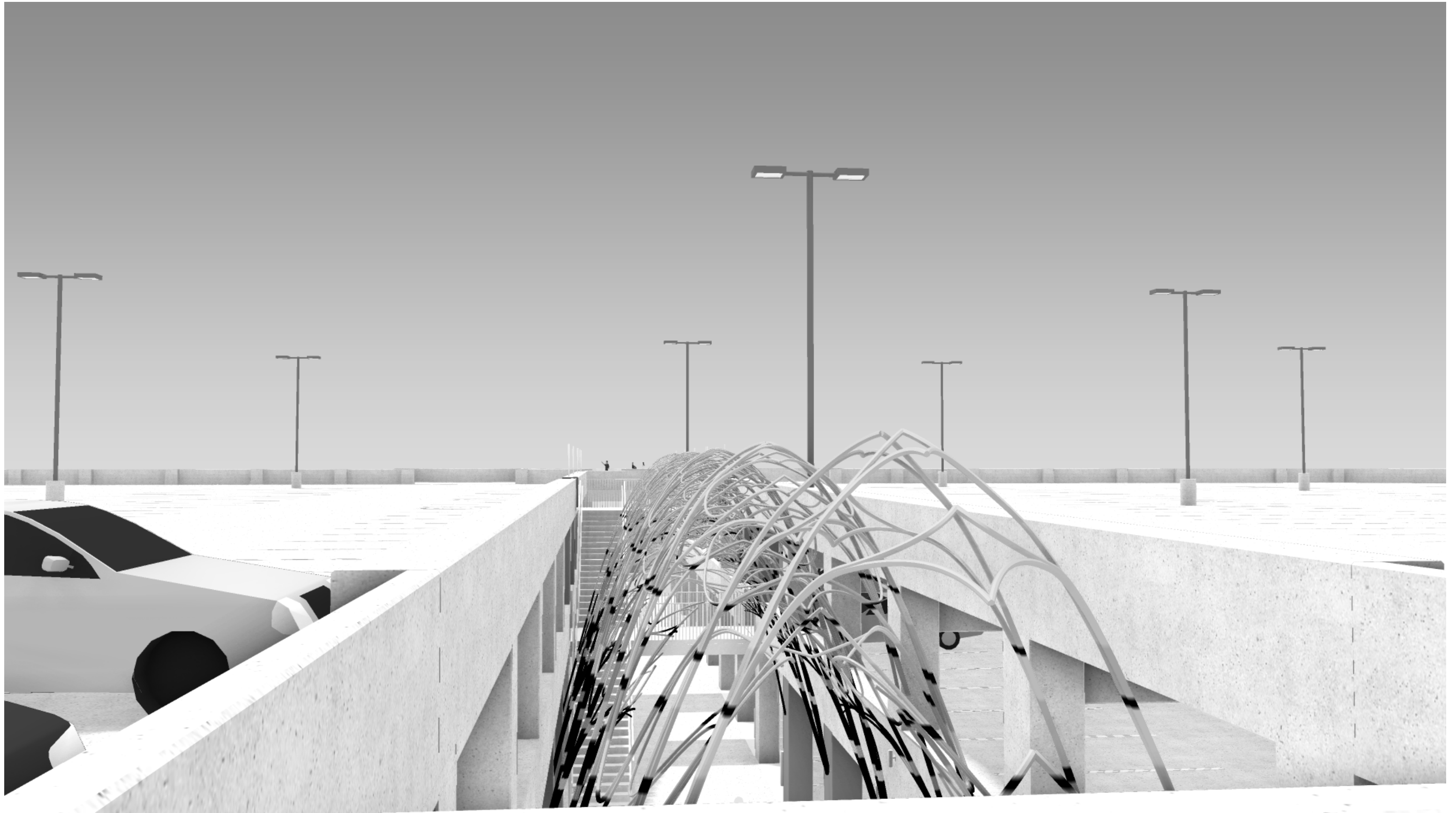




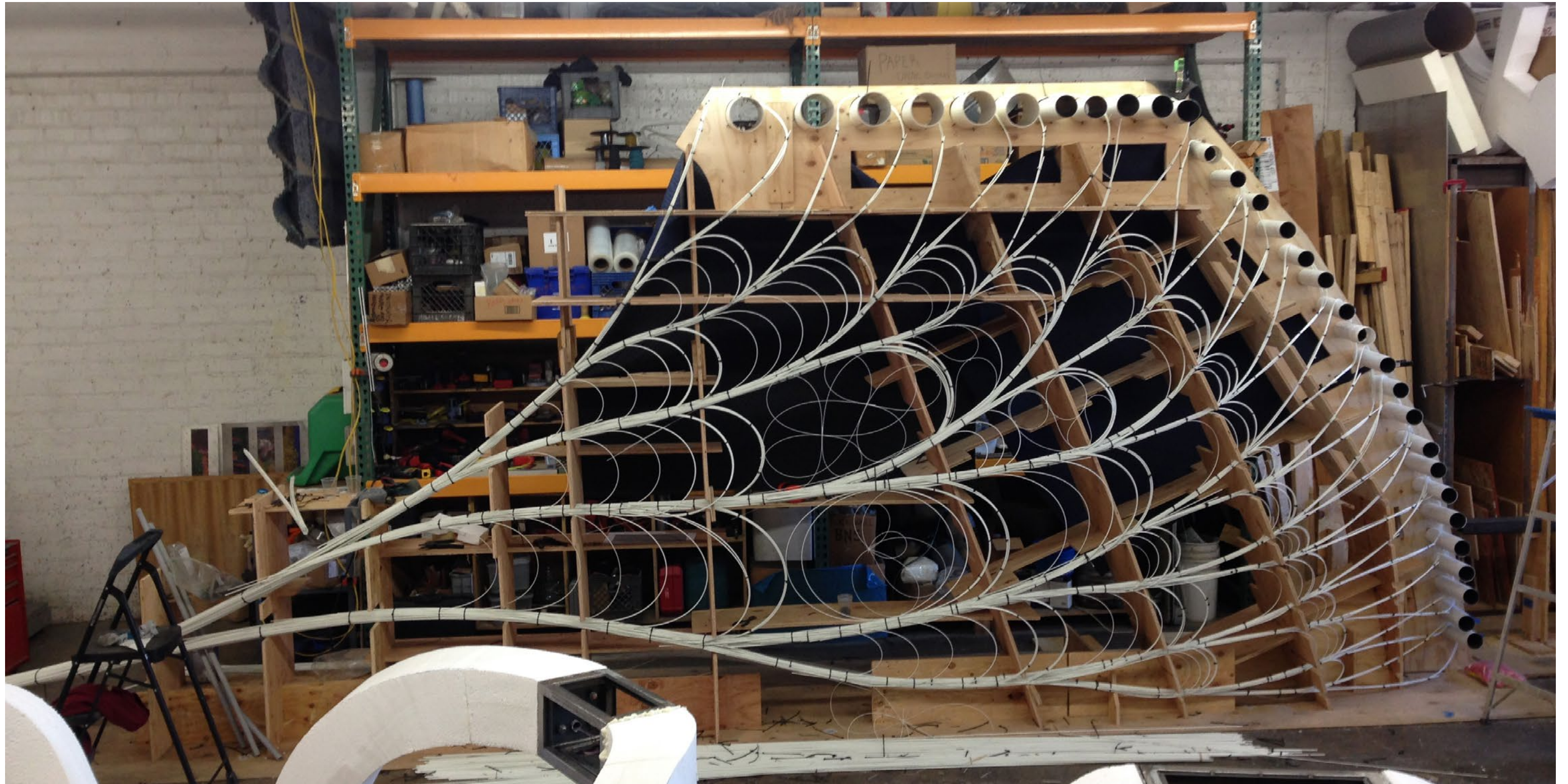








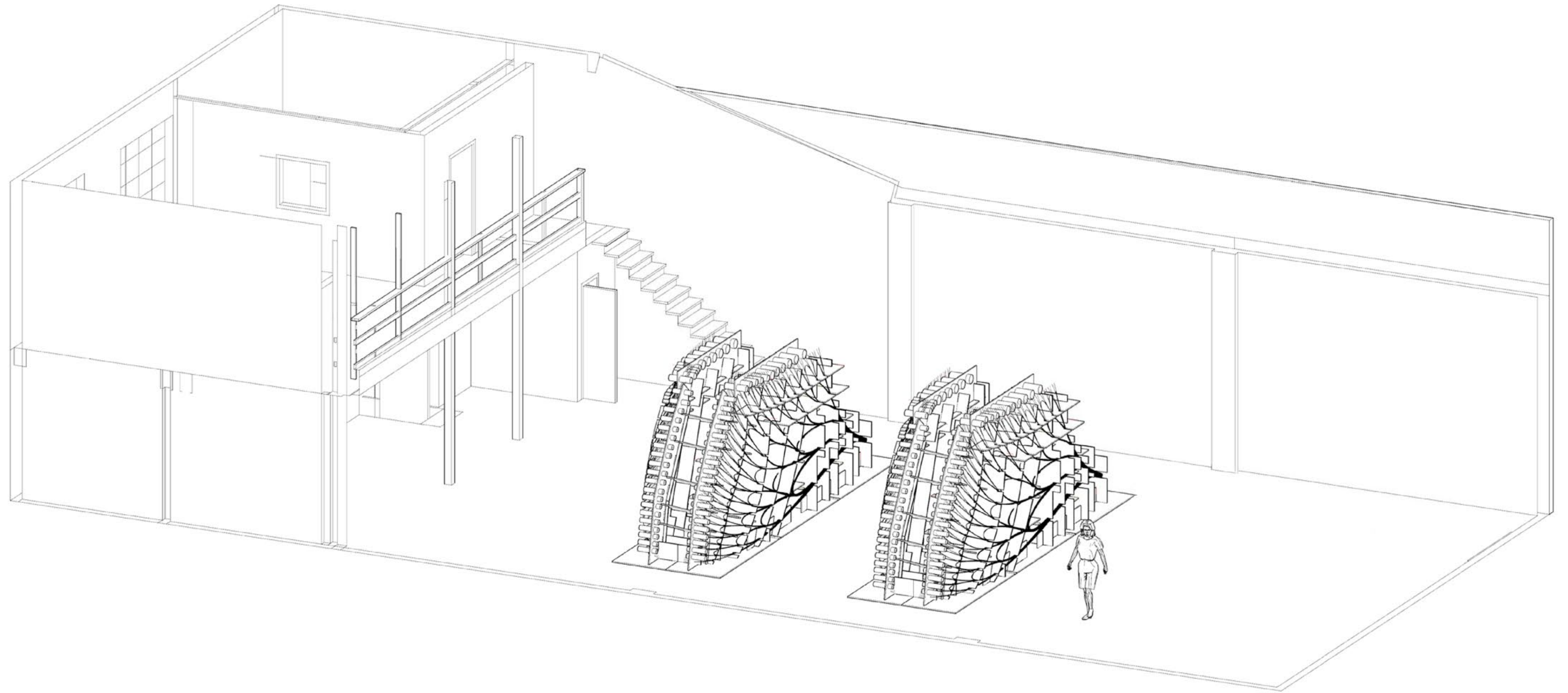


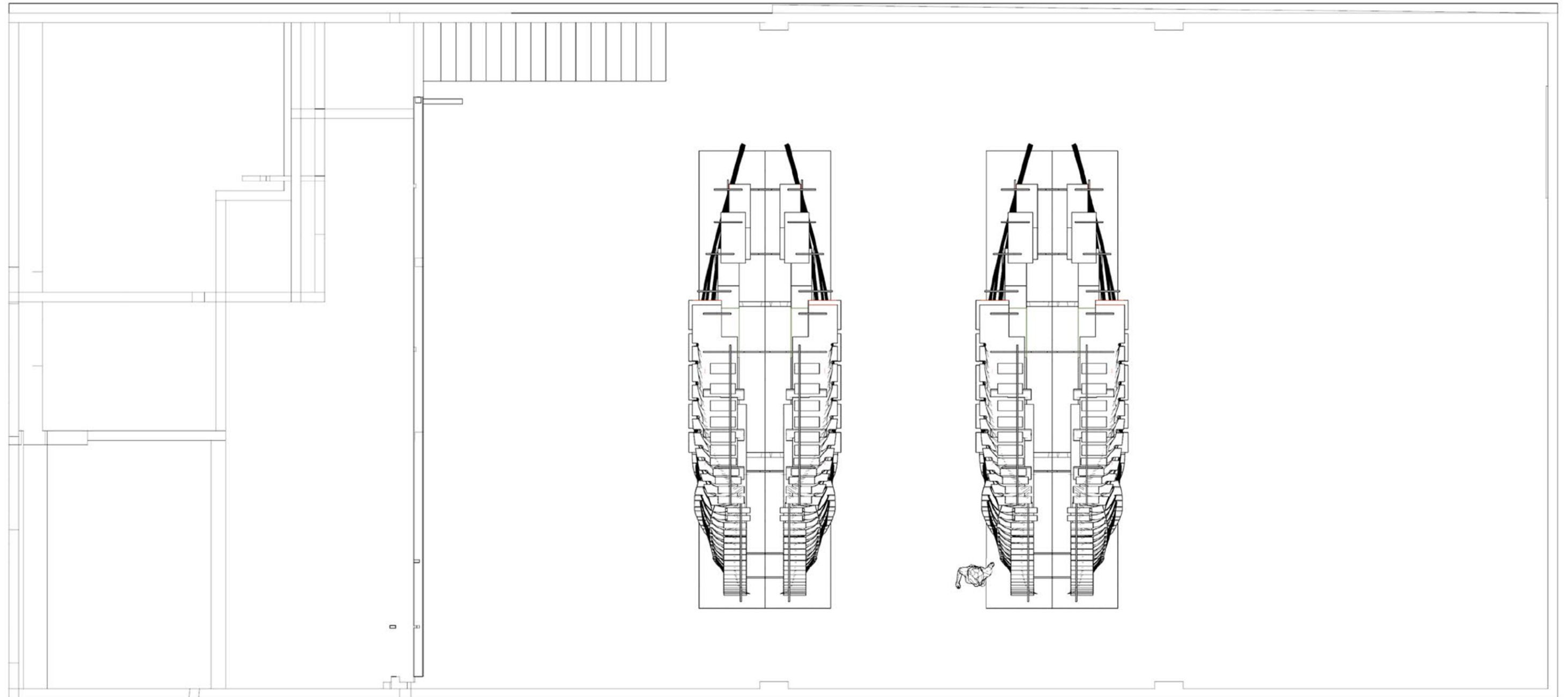


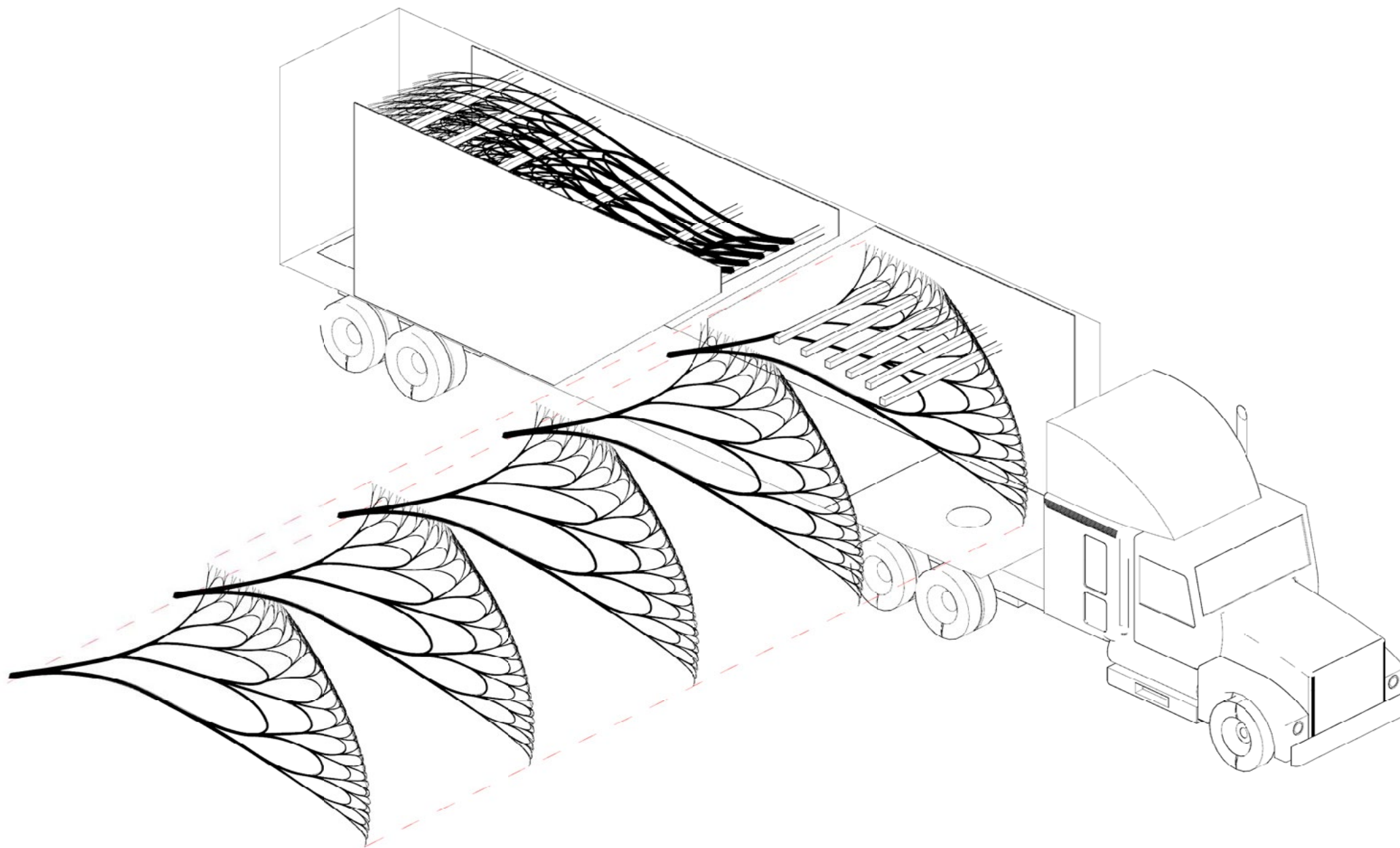




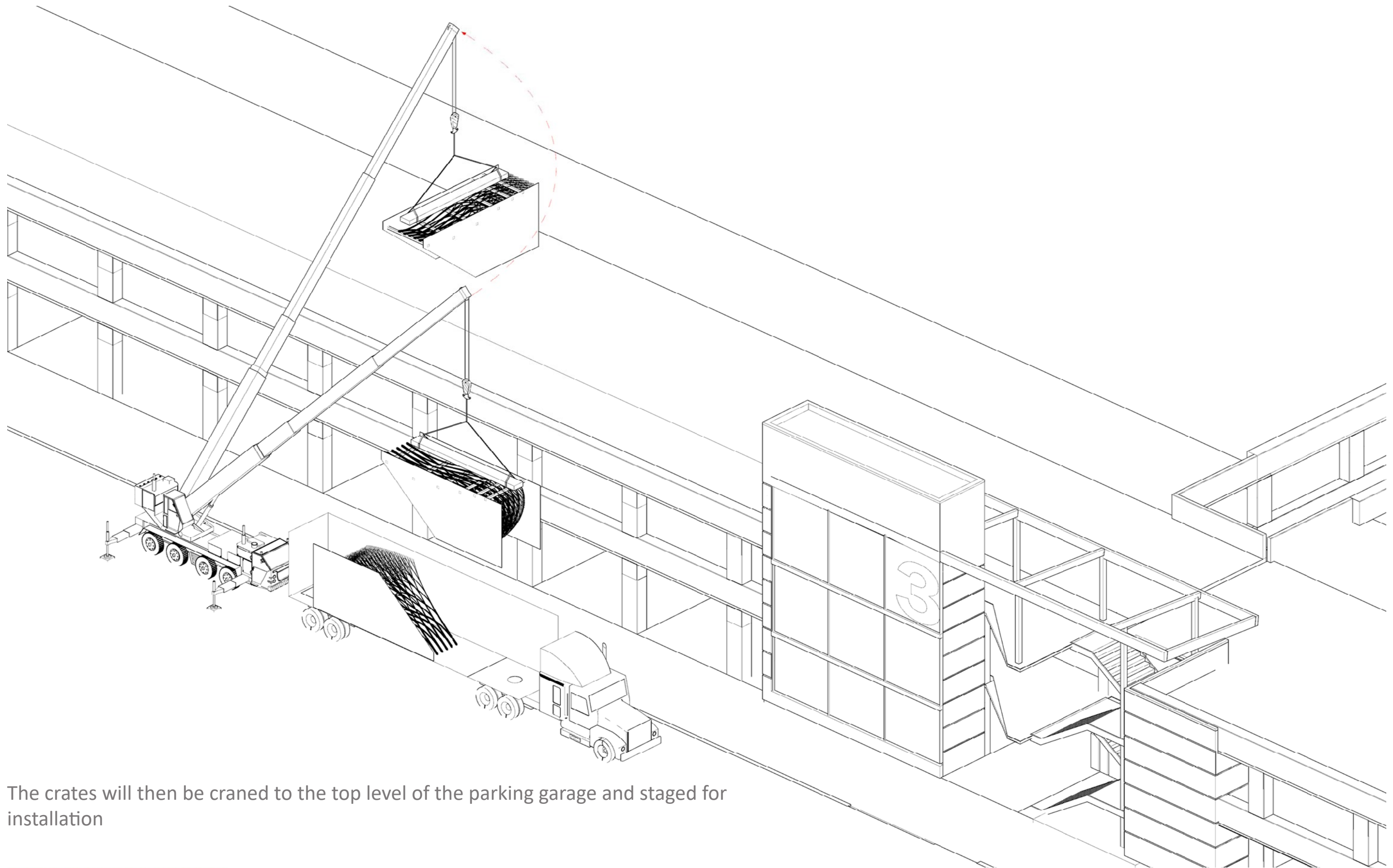




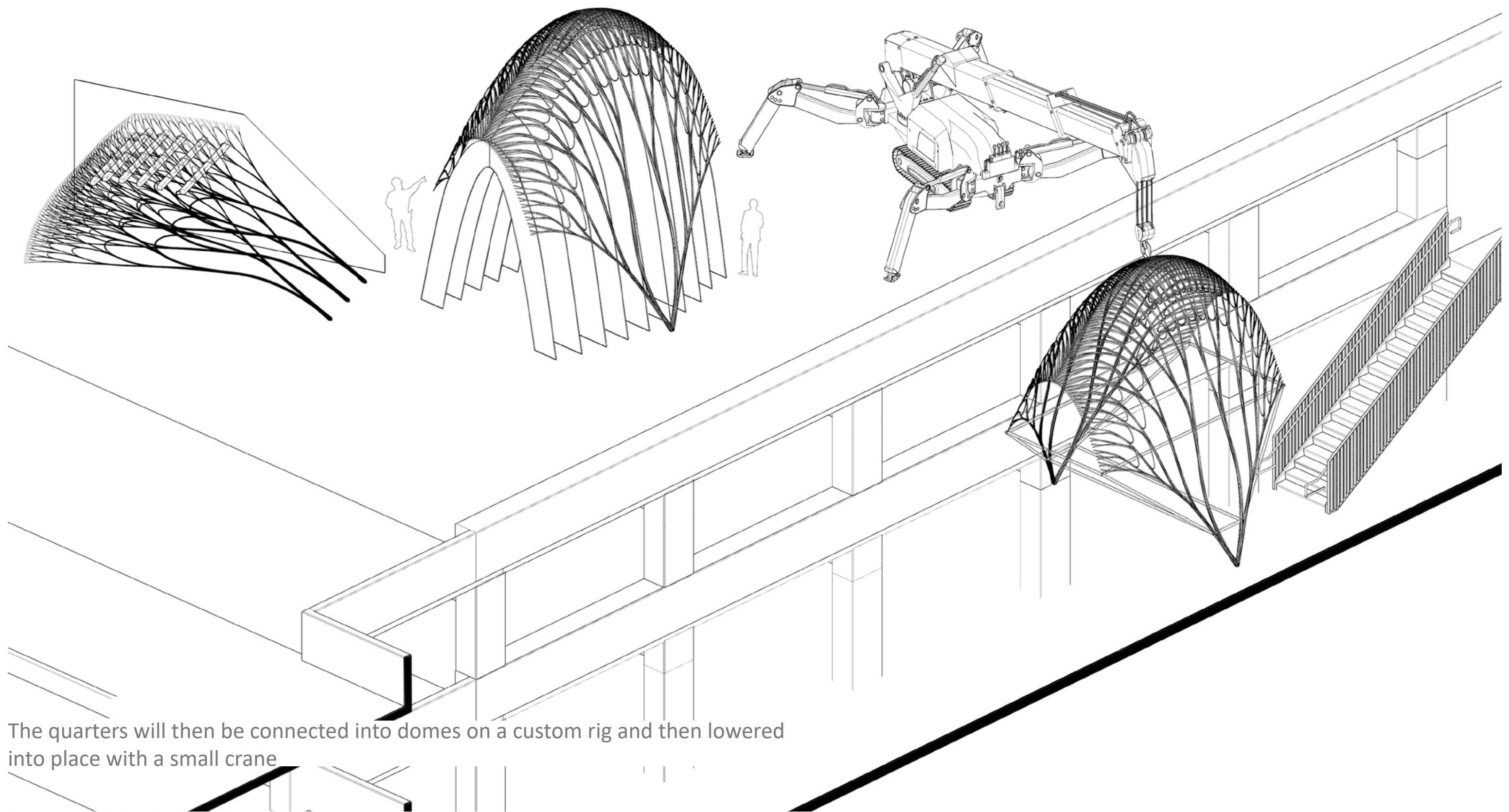




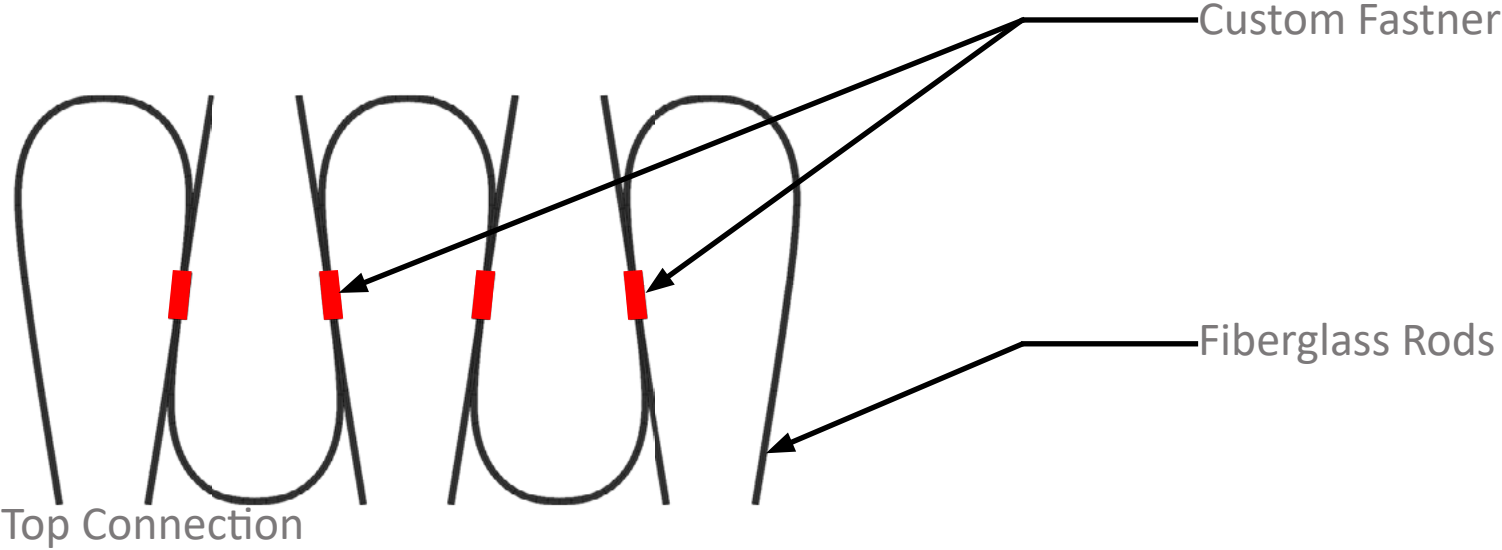
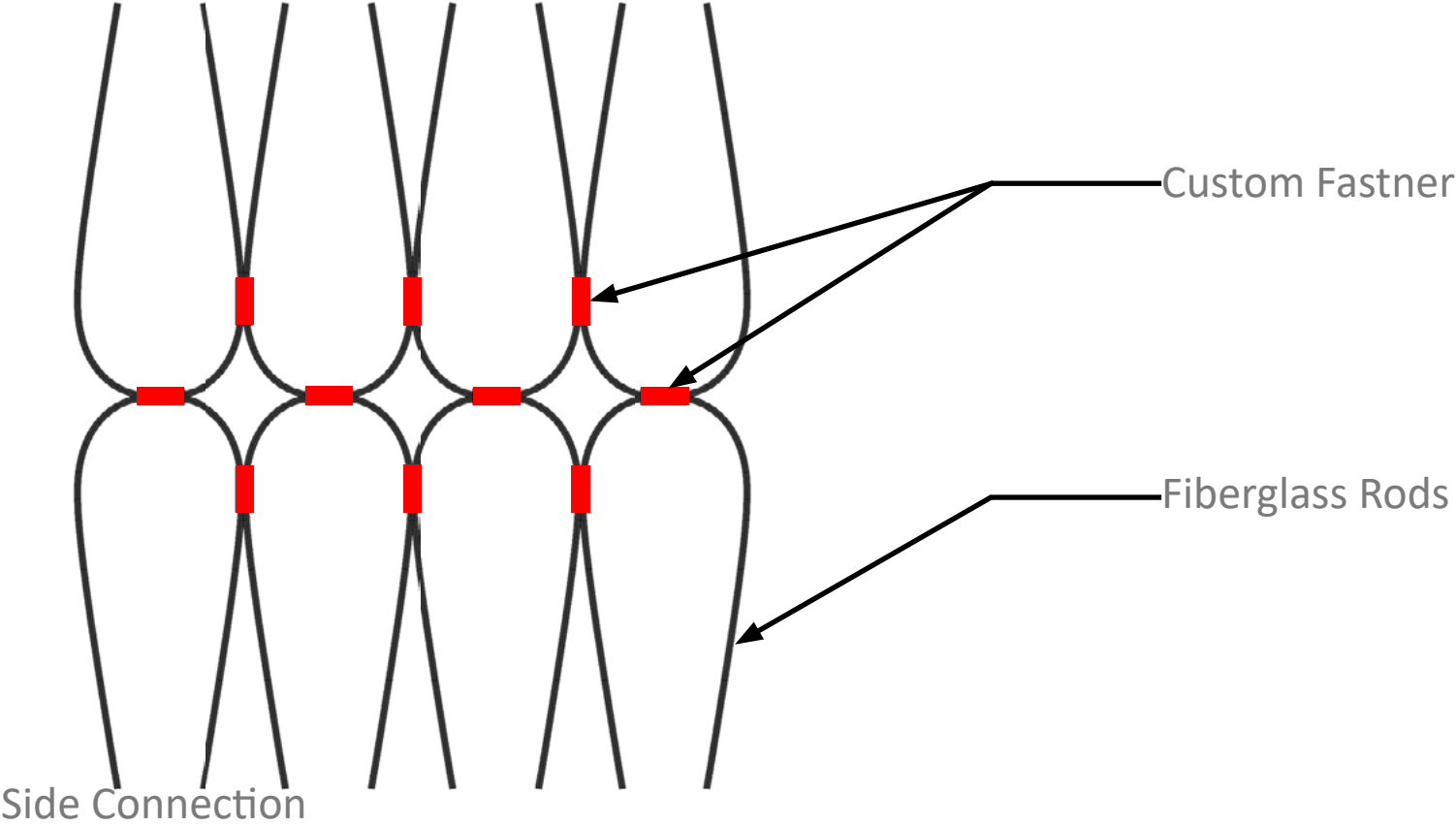
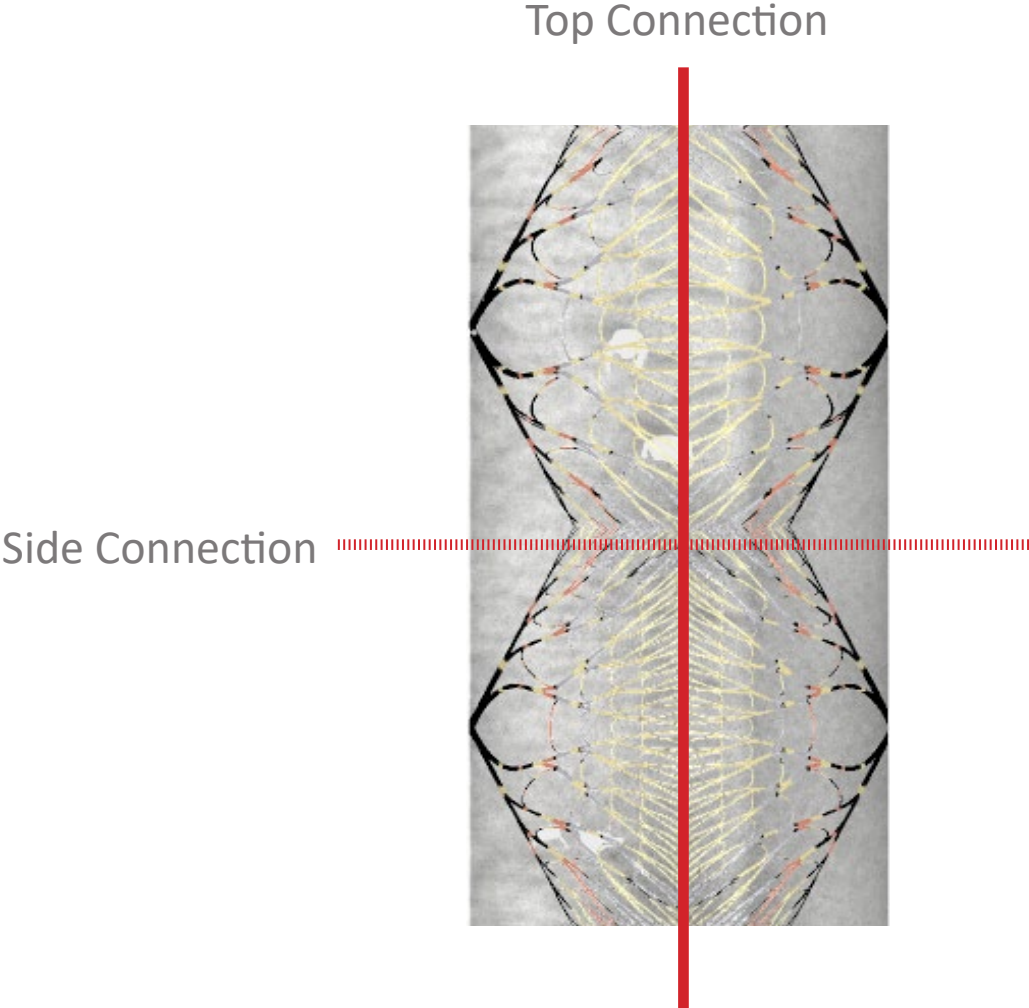
The quarters will be packed in a custom crate and shipped from Los Angeles to San Diego



The crates will then be craned to the top level of the parking garage and staged for installation

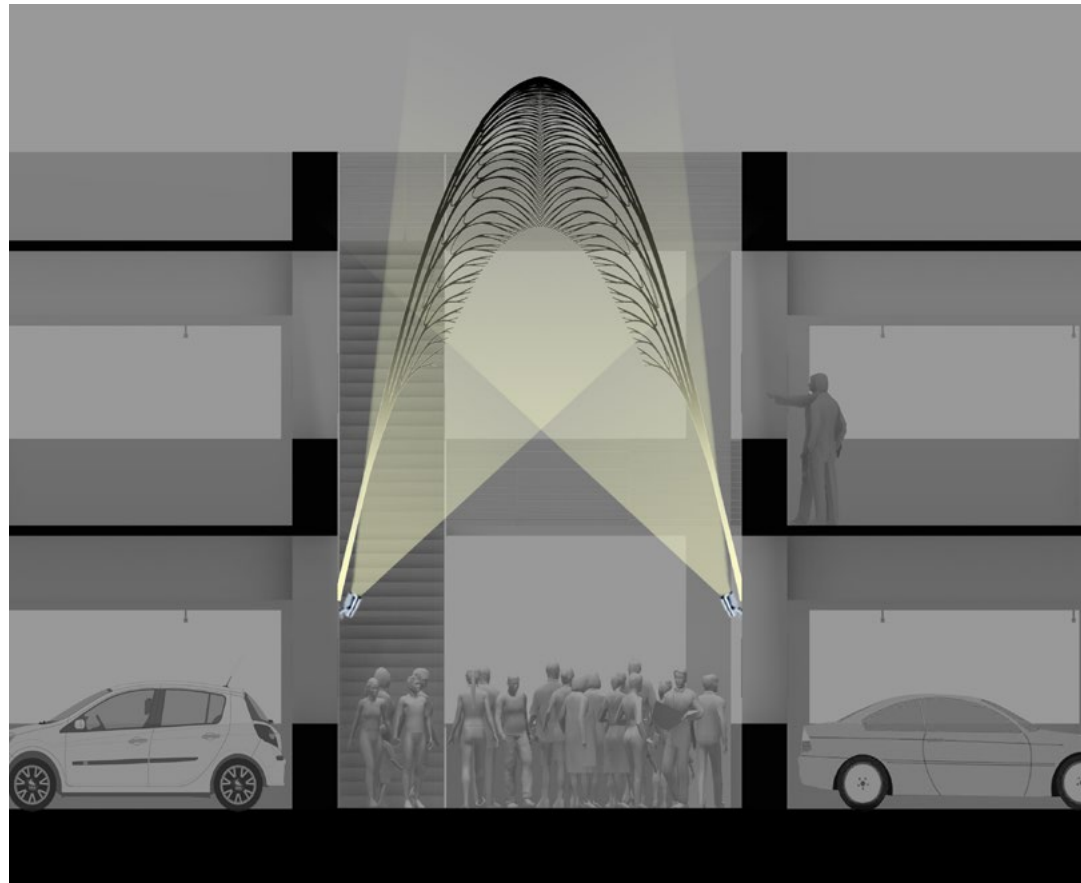


The quarters will then be connected into domes on a custom rig and then lowered into place with a small crane

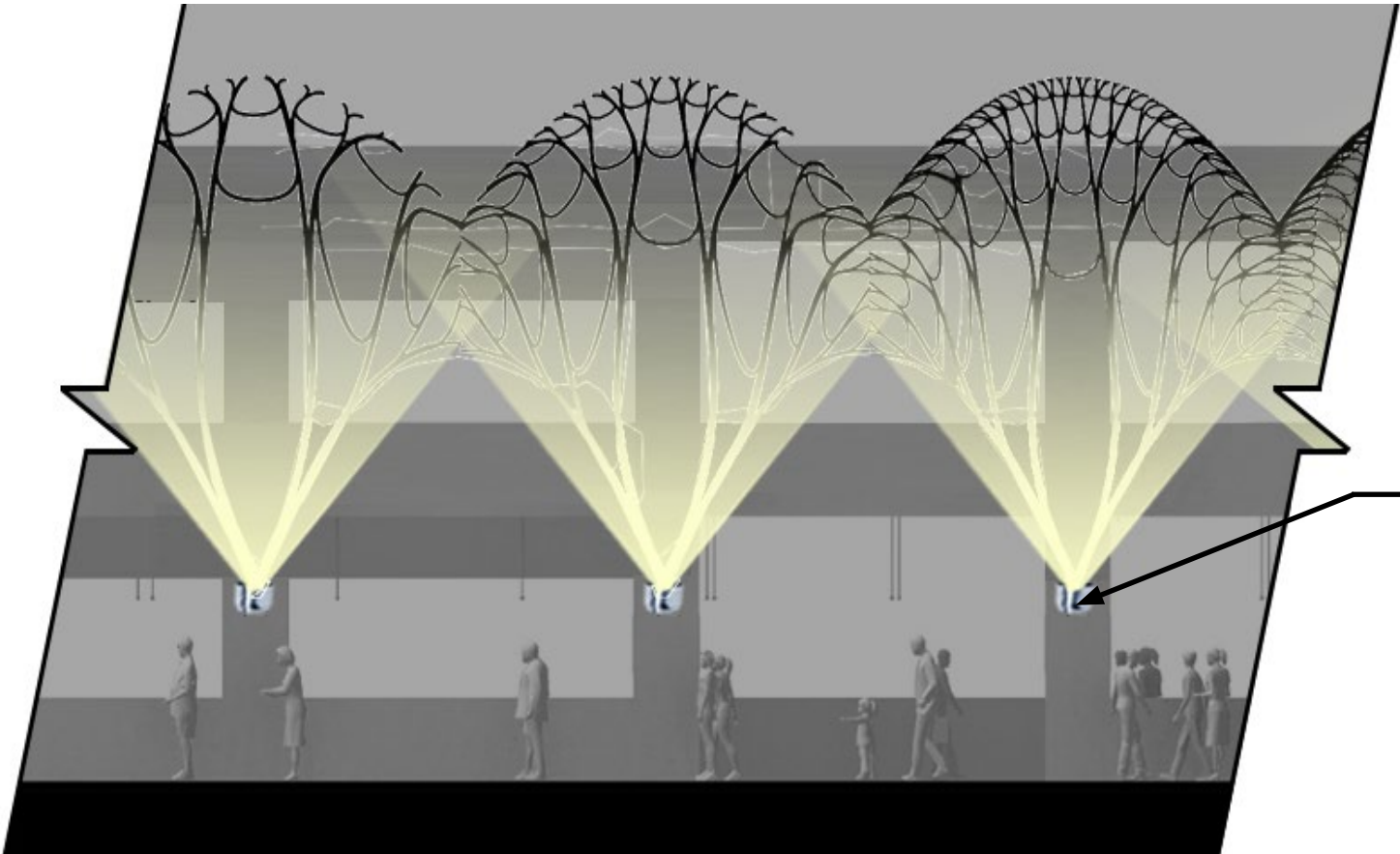


The quarters will be attached at the various points of intersection with clips, as seen in the diagram above.





Cross Section



Elevation

Lighting Fixture
and J-Box

DENALI SERIES™

DE



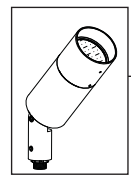
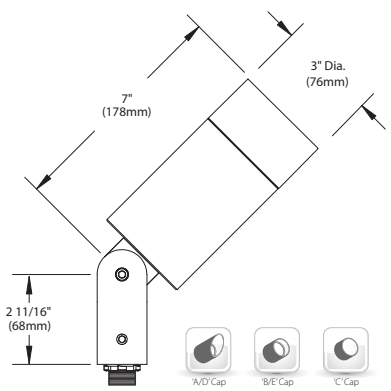
- MATERIAL
- ALU
- FOR USE WITH
- Power Supplies
 - Options
 - Mounting

"It's just such a satisfying feeling holding a B-K fixture in your hand – the quality emanates both visually and in tactile form, but moreover its competence and sense of purpose are evident as well. Denali embodies all of what so many B-K fixtures do – compact effectiveness wrapped up in clean, confidence-inspiring, form-follows-function design. Really a go-to fixture for me."

Adam Kibbe, Collaborative Lighting, BKU Fall 2008



Shown with 'C' Cap in Bronze Wrinkle (BZW) finish

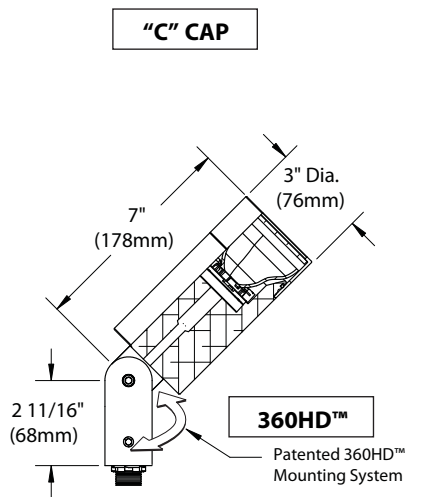
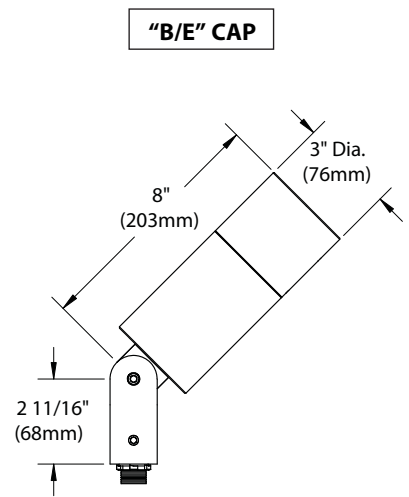
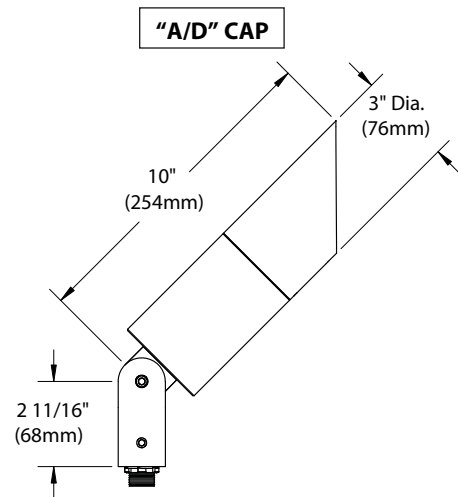


18-29W LED



DENALI SERIES™ FLOODLIGHT

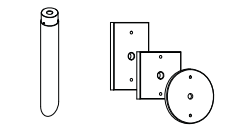
PROJECT:	
TYPE:	



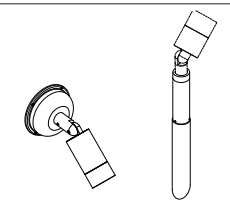
All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

Accessories (Configure separately)

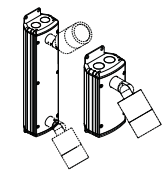
Mounting:



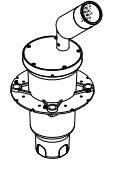
Power Pipe™ Canopies



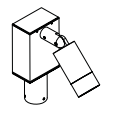
Power Canopy™ Power Pipe™



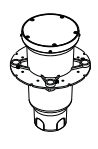
PM2D & PM2



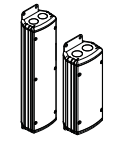
HP2



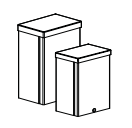
TMB



HP2RM



PM2DRM & PM2RM



RM & DRM

Drivers (Configure separately)

Drivers:

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
Patented 360HD™ Mounting System features a mechanical taper-lock, which allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting. Biaxial source control additionally provides 360° horizontal rotation in addition to vertical adjustment. 'Aim-And-Lock' Technology allows precision adjustment without the redundant tightening and loosening of knuckle screw.

Cap
Fully machined. Accommodates [2] lens or louvre media. Choose from 45° cutoff ('A' or 'D'), 1" deep bezel with 90° cutoff ('B' or 'E') or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

BKSSL®
Integrated solid state system with 'x' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance.

LM-80 certified. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

Color Management
Corrected cold phosphor technology delivers near-perfect natural white light. Long term phosphor maintenance over product life. Exact color point conformity exceeds ANSI C78.377 standard. Provides uniform beam with no color variation over angle. Module exceeds 80 CRI (RA>80, R9>16).

Remote Driver
For use with remote LED driver. See remote driver submittal to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. 360HD™ hardware is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standards 1598, 8750 and Certified to CAN/CSA Standard C22.2 No. 250. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



*Teflon is a registered trademark of DuPont Corporation.
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

Specification Sheet

lumenbeam™
MEDIUM
WHITE & STATIC COLORS

Client _____ Project name _____

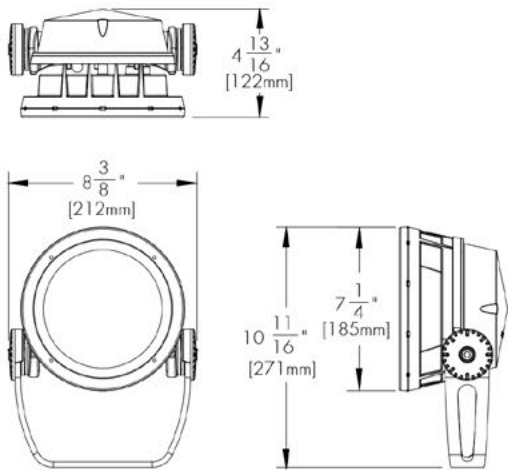
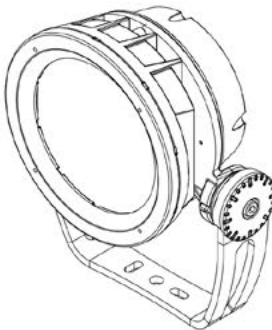
Order# _____ Type _____ Qty _____

FEATURES AND BENEFITS

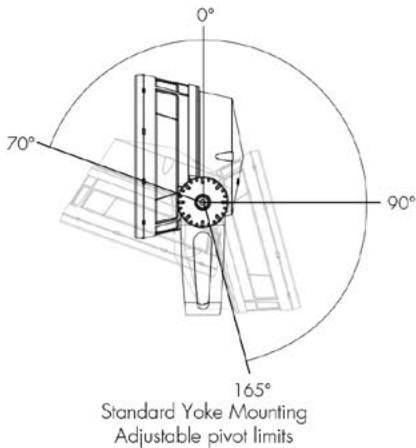
- Physical :
- Low copper content high pressure die-cast aluminum housing
 - Heavy aluminum formed yoke (standard yoke included)
 - Stainless steel hardware
 - Silicone sealing devices
 - Clear tempered glass
 - Dual chamber design for heat management and ease of maintenance
 - Electro-statically applied polyester powder coat finish
 - 3.05 kg / 6.7 lbs
 - EPA: Front = 0.46 sq. ft./0.042 sq. m. Side = 0.37 sq. ft./ 0.034 sq. m.
 - IP66
 - IK09 rated
 - Meets 3G ANSI C136.31 Vibration standard for bridge applications
 - Corrosion-resistant coating for hostile environments*

- Performance :
- Minimum 1fc (10.7 lux) @ 274 feet (83m) distance (4000K, 6° optic)
 - 1,891 delivered lumens and 75,232 candelas at nadir (4000K, 6° optic)
 - 6°, 10°, 20°, 40° or 60° optics available
 - CRI value: 80+
 - lumen maintenance 120,000 hrs [L70 @ 25°C]
 - lumen measurements comply with LM - 79 - 08 standard
 - Operating temperatures: -25° C to 50° C [-13F to 122F]

- Electrical :
- Line voltage luminaire for 100 to 277V
 - Power and data in 1 cable, 3ft/1 m cord (#16-5)
 - 28 watts
 - Dimming options: 0-10 volt, DMX/RDM enabled or DALI



Standard Yoke (as shown, included)

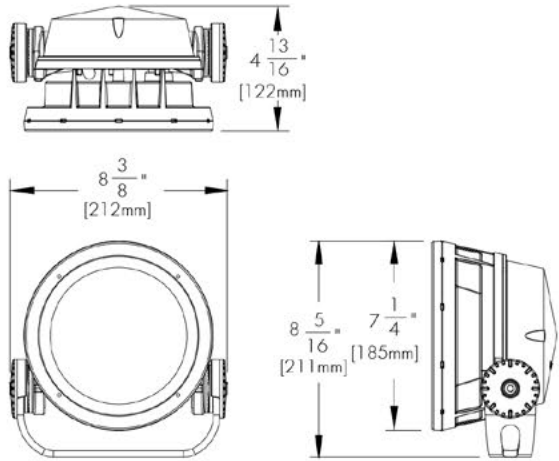


* Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

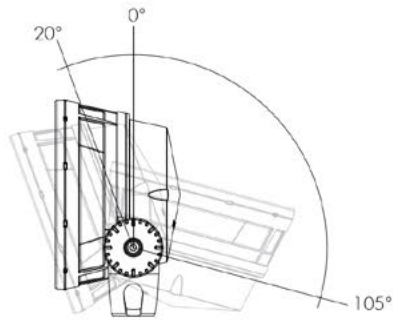
Specification Sheet

lumenbeam™
MEDIUM
WHITE & STATIC COLORS

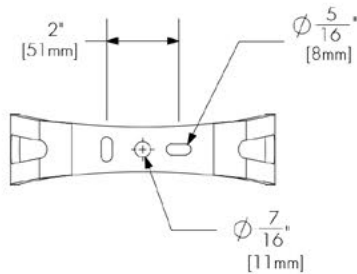
MOUNTING OPTION



SY
Short Yoke Mounting

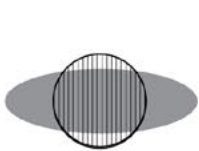


Short Yoke mounting
adjustable pivot limits



Standard and Short Yoke mounting
holes pattern

OPTICAL OPTIONS
*Factory installed

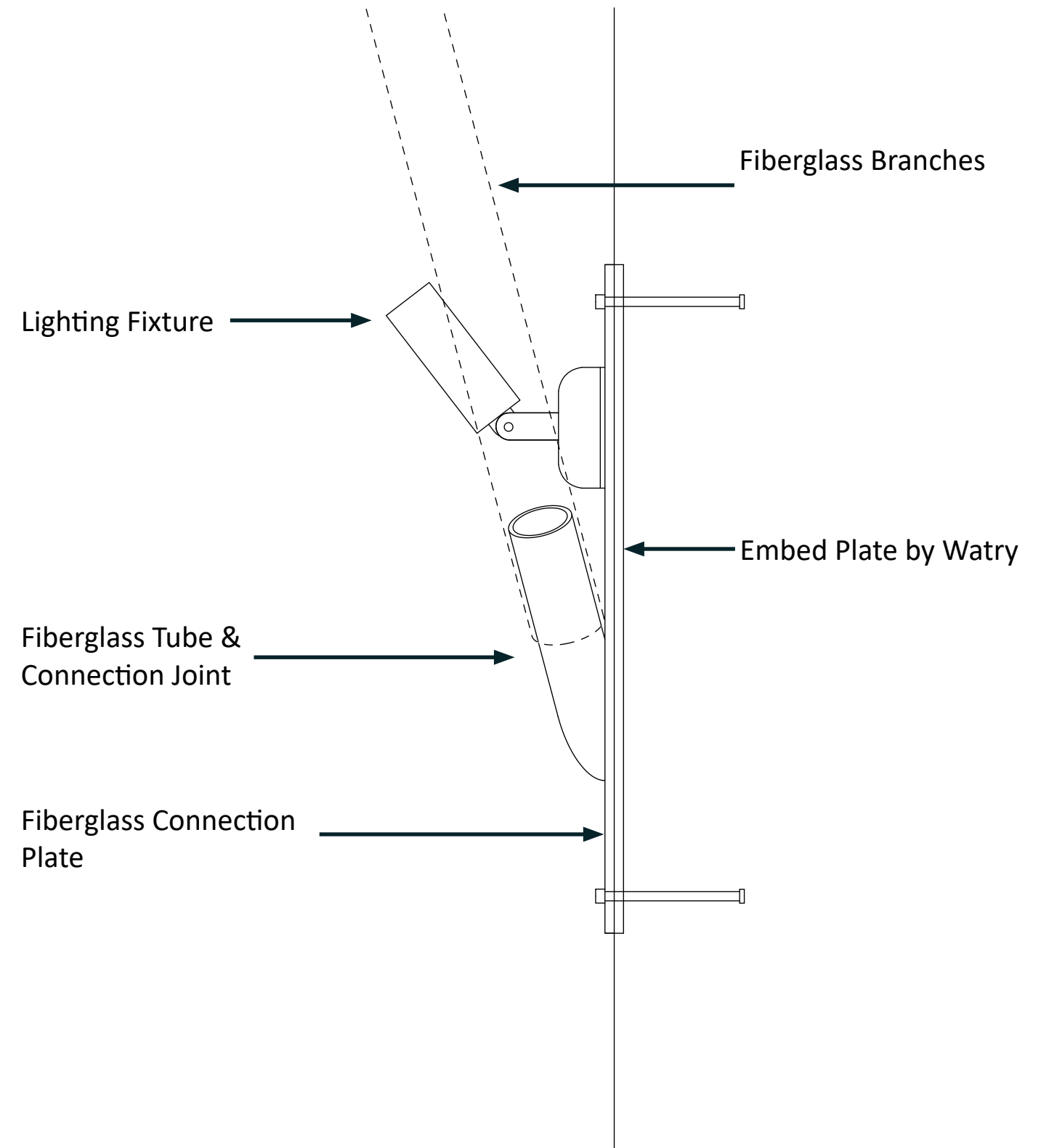
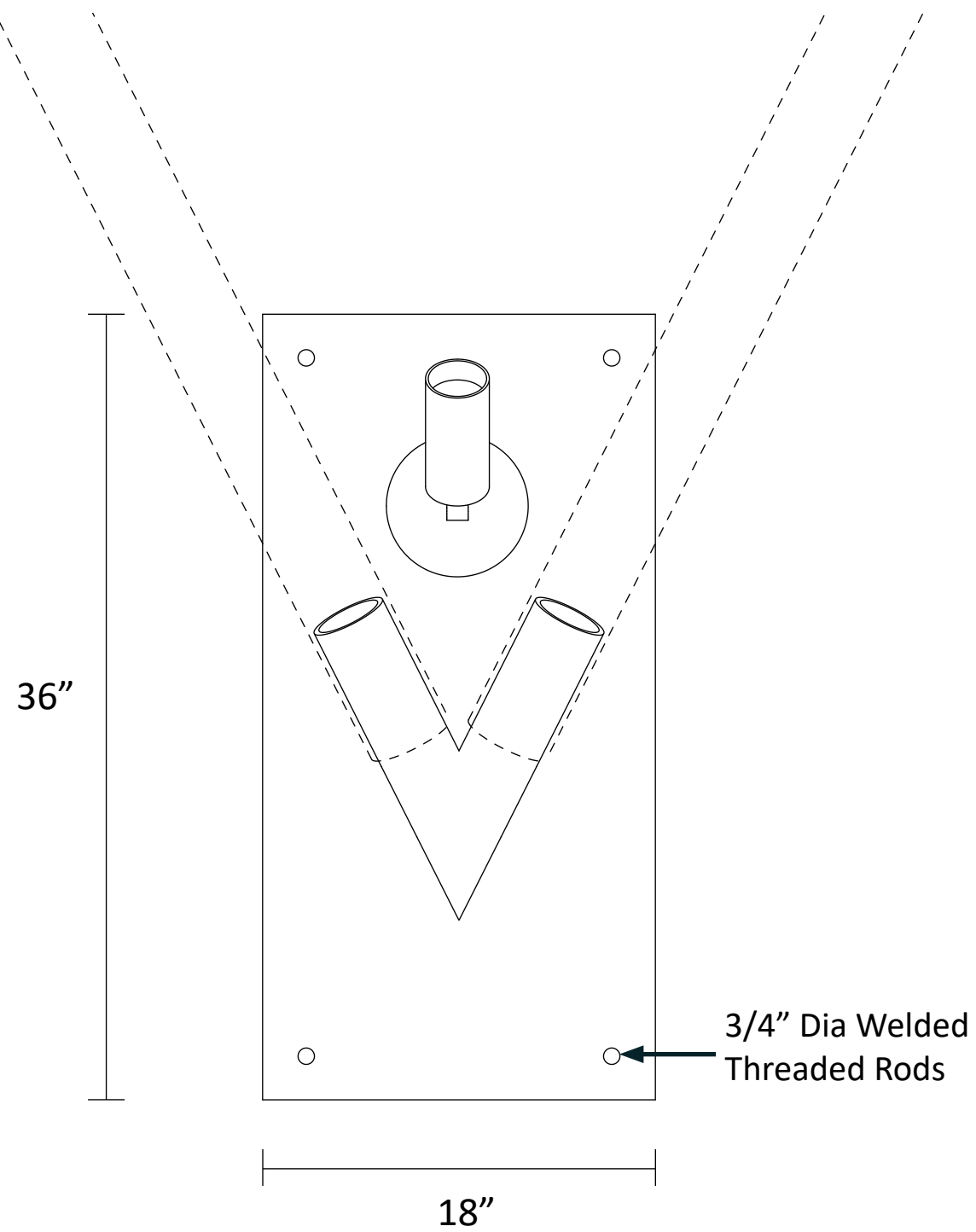


LSLH
Linear Spread lens
Horizontal distribution
(not adjustable on site)



LSLV
Linear Spread Lens
Vertical distribution
(not adjustable on site)

Factory installed, available for 6° to 40° optics.
See Optical Accessories for field adjustable spread lens.





Rhino
eXtreme
11-50 FR
Data Sheet

Part A – Rhino Extreme™ 11-50 FR Iso – Part # 60088-1
Part B – Rhino Extreme™ 11-50 FR Resin – Part # 60084-1

DESCRIPTION:

Rhino Extreme 11-50 FR is a two component, flame retardant, elastomeric, polyurea system. Its flame retardence makes it an ideal coating for numerous applications that require a flammability rating. Because of the large number of flammability ratings and the large array of surfaces that can be coated, it is highly recommended that testing, certification and approval be considered prior to any application of this coating. Note: Ultimate flame retardence is dependent upon coated substrate, thickness and density.

TYPICAL USES:

- Excellent fire retardant protective lining for abrasion, impact and corrosion resistance
- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size.
- Tough, durable lining for military applications such as:
 - Tactical vehicles and equipment requiring abrasion, corrosion and impact protection
 - Foot traffic areas requiring non-slip surfaces
- Excellent blast mitigation properties for military barracks, vehicles, temporary structures and buildings.
 - High tensile and elongation properties contain and reduce schrapnel in vehicles and buildings
- Can withstand tracked vehicle traffic and heavy loads with proper thickness build
- Reduces noise from vibration and impact
- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size
- Can withstand vehicle forklift traffic and heavy loads with proper thickness build

FEATURES & BENEFITS:

- Class I fire rated, flame spread ≤ 25 and smoke density ≤ 450
- Can be applied in 80% humidity or lower and temperatures as low as 0° F
- Maximum thickness – unlimited
- Provides vibration and acoustic dampening
- High tensile strength, elongation and tear strength
- Excellent fire resistance
- Excellent weather resistance
- Excellent corrosion resistance
- Excellent impact resistance
- Excellent abrasion resistance
- Good chemical resistance

CHEMICAL PROPERTIES:	Test	Isocyanate	Resin
Specific Gravity (grams/cc)	ASTM D-792	1.18 – 1.2	0.9 – 1.02
Viscosity, CPS at 77°F (25°C)		400	650
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds, calculated		0 lbs/gal	0 lbs/gal
Mix Ratio, Parts per volume		1	1
Mix Ratio, parts per weight		109	100
Gel Time, seconds at 77°F (25°C)		7 – 10	
Tack-free, seconds		10 – 12	
Theoretical Coverage (dft)		1600 sqft/gal at 1 mil thick	
Freezing Point		40°F (4.4°C)	n/a
Base Color		amber	straw opaque
Shelf Life - Unopened Containers		12 months	12 months

TYPICAL PHYSICAL PROPERTIES:	Test	Result
Hardness (Shore D)	ASTM D-2240	50±5
Tensile Strength (psi)*	ASTM D-412	2200 (15.1 MPa)
Tear Resistance (pli)** Die C	ASTM D-624	600 (105.1 KN/m)
Elongation (%)*	ASTM D-412	200
Density (lb/ft3)	ASTM D-1622	69 – 70 (1104 – 1120 Kg/m3)
Taber Abrasion Resistance (mg of loss/1000 cycles) CS-17 wheel; 1000 grams weight	ASTM D-4060	27

RHINO EXTREME™ 11-50 FR

TYPICAL PHYSICAL PROPERTIES (continued):

TYPICAL PHYSICAL PROPERTIES (continued):		Test	Result
Coefficient of Friction on Steel:	-Static	ASTM D-1894	.4
	-Kinetic	ASTM D-1894	.25
Flammability	FS≤25, Smoke≤450	ASTM E-84	Class I
		FMV-302	Pass (Uncertified)
		Cal 117	Pass (Uncertified)
		UL-94	V-O
Dielectric Strength (volts/mil)		ASTM D-149	300
Volume Resistancy (ohm/inches)		ASTM D-257	6 X 10 (12)
Dielectric Constant (MHz)		ASTM D-150	5.4
Dissipation Factor (MHz)		ASTM D-150	0.058
Cathodic Disbonding		ASTM G-8	Pass
Elcometer Adhesion Pull Test		ASTM D-4541	Pass

*Properties were checked of Rhino Extreme™ FR polyurea lining, 1/8" (125 mils), (3.18 mm) thick stock.

PROCESSING CHARACTERISTICS: The system settings required to achieve quality spray sealant application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum lining quality.

Equipment Used	Spray Pressure	Process Pressure	Spray Gun	Mix Module
Graco EXP-2	2000 psi	2300 – 3500 psi	Fusion - Air Purge or Mechanical Purge	AR2929 or greater

Process Temperatures

Component Temperature (A&B)	Hoses - High Pressure	Substrate Surface
150°F (66°C)	150°F (66°C)	60° – 110°F (15° – 43°C)

DRY FILM THICKNESS RANGE:

Varies based on application, typically used at a minimum of 1/16" (62.5 mils; 1.5 mm) up to unlimited thickness)

CHEMICAL RESISTANCE:

(Guidelines only: Fume, splash, spillage as noted. Individual testing required for immersion).

Acetic Acid to 10%	Excellent	Ammonia to 5%	Excellent
Formic Acid to 5%	Excellent	Caustic Soda Lye to 50%	Excellent
Sulfuric Acid to 10%	Excellent	Potash Lye to 20%	Excellent
Tannic Acid to 20%	Excellent	Oils	Excellent

SolventsModerate

Properties were check from polyurea lining, 1/8" (125 mils), (3.18mm) thick stock.

SUBSTRATES: Metals, wood, concrete, fiberglass, geotextiles and most plastics

COLOR OPTIONS: Standard colors - black. Custom colors are available by special order.

HOW SUPPLIED: Net weight per set is 910 pounds (412.7 kg). A set of Rhino Extreme 11-50 FR consists of one (1) 55 gallon (208 L) drum of ‘A’ component and one (1) 55 gallon (208 L) drum of ‘B’ component.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2015 Rhino Linings Corporation. All rights reserved.



Rhino Linings Corporation
9747 Businesspark Avenue, San Diego, CA 92131
858-450-0441 • Fax 858-450-6881
1-800-422-2603
www.rhinolinings.com



Chemthane 7061

Class 1 Fire Rated Polyurea Encapsulant for use over EPS Foam, Wood or Steel

Features

Class 1 Fire Rated
Chemthane 7061 passes ASTM Designation E84: "Standard Method of Test for Surface Burning Characteristics of Building Materials."

Impact Resistant
Chemthane 7061 is formulated to give excellent impact resistance even in sub-freezing temperatures.

Customizable Finish
Chemthane 7061 is offered in three different cure speeds to allow the sprayer to achieve either a glassy or textured finish.

Pure Polyurea
Chemthane 7061 is a pure polyurea. It is not sensitive to moisture like other polyurethane or hybrid coatings.

Zero VOCs
Chemthane 7061 is a 100% solids coating and is formulated with zero VOCs.

Application
Chemthane 7061 should be applied through a two-component, high pressure proportioning unit. Material and hose heaters should be between 150-170°F. Pressure should be a minimum of 2400 psi. If A side and B side pressures are not equal, stop spraying and examine equipment.

Be sure to consult with a Chemline representative for equipment and application training.

Description

Chemthane 7061 is a 1:1, fast-set, spray applied two-component polyurea hardcoat. It is 100% solids and contains zero VOCs.

Chemthane 7061 is Class 1 Fire Rated. It passes ASTM Designation E84: "Standard Method of Test for Surface Burning Characteristics of Building Materials."

Chemthane 7061 is available in three different cure speeds -- 5, 10, and 15 seconds -- allowing the end-user to achieve a textured or glassy final appearance. The different products are denoted Chemthane 7061.05, 7061.10 and 7061.15.

Technical Data

Property	Value
Hardness, Shore D	50
Tensile Strength, psi	3100
100% Modulus psi	1400
200% Modulus psi	1700
300% Modulus psi	2300
Tear Strength, pli	650
Elongation, %	500
Direct Impact Strength, in.-lbs.	>700
Abrasion Resistance, mg loss CS17 wheels, 1000g, 1000 cycles	20
Application Temperature	
Substrate, °F	40 to 110
Ambient, °F	40 to 110
Gel Time, sec	5, 10, 15
Tack Free Time, sec	10, 20, 30
Recoat Window, min	25

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Safety

This product is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or a fresh air hood. Spraying indoors requires forced ventilation. Be sure to read MSDS in its entirety prior to using Chemthane 7061.

Packaging, Storage, & Shelf Life

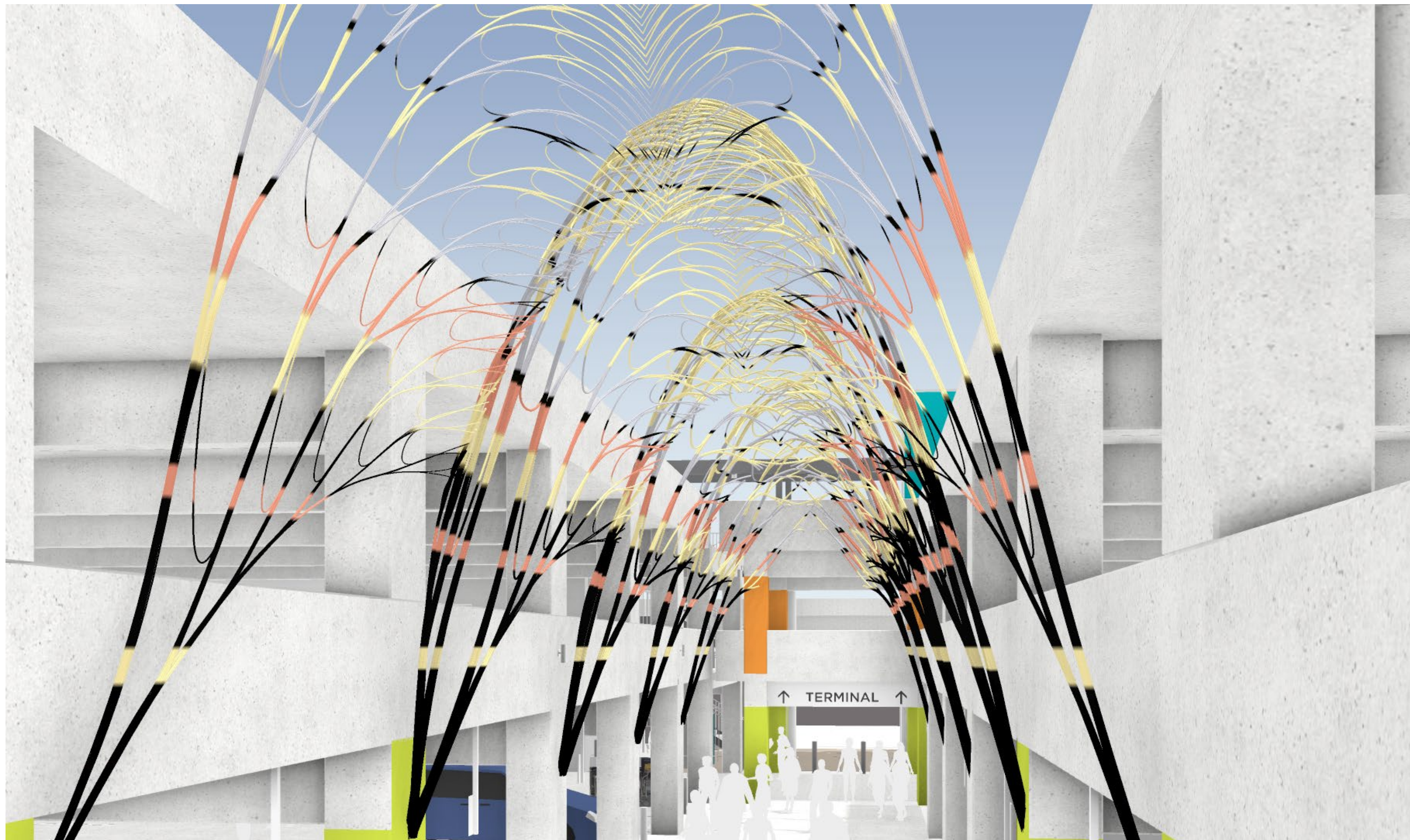
Chemthane 7061 is available in 55 gallon drums and 275 totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

Revised 05/2011

Chemline, Inc. • 5151 Natural Bridge Rd. • St. Louis, MO 63115 • Phone : (314) 664 - 2230

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Chemline, Inc. hereunder are provided gratis and Chemline assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at your risk.





TNEMEC

PRODUCT DATA SHEET

FLUORONAR® METALLIC

SERIES 1078V

PRODUCT PROFILE

GENERIC DESCRIPTION

COMMON USAGE

COLORS

FINISH

SPECIAL QUALIFICATIONS

PERFORMANCE CRITERIA

Advanced Thermoset Solution Fluoropolymer

A low VOC fluoropolymer coating that provides an ultra-durable metallic or pearlescent finish with user friendly application. It has outstanding color and gloss retention even in the most severe exposures. Under certain conditions, it may be used to restore aged fluoropolymer coil applied coatings. Contact Tnemec Technical Services or your local Tnemec representative for details.

Available in 42 standard colors. Refer to Tnemec Metallic Color Guide. Custom colors also available. Certain colors may require a clear topcoat for optimum performance. **Note:** Variations in appearance between product samples, color cards, color sheets and actual field applications should be expected due to differences in environmental conditions, color of underlying coats, gloss level, orientation of metallic pigment, equipment and applicator technique. Reference Technical Bulletin No. 07-65 for more information.

Semi-gloss. Other gloss levels may be available, contact Tnemec.

Standard Series 1078V colors will meet the requirements of the Metallic Pigmented coatings category for use in air districts with more restrictive VOC regulations.

Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS

INTERMEDIATE

TOPCOATS

Steel: Series 1, 20, 27, 66, L69, L69F, N69, N69F, V69, V69F, 84, 90-97, 91-H₂O, 94-H₂O, 104, 135, L140, L140F, N140, N140F, V140, V140F, 161, 394
Galvanized Steel and Non-Ferrous Metal: Series 27, 66, L69, N69, V69, 161
Note: Series 394 requires an intermediate coat prior to topcoating with Series 1078V. Also, Series 135 exterior exposed more than two months, or Series L69, N69, V69, 84, L140, N140, or V140 exterior exposed more than three months must first be scarified or reprimed with themselves. Brush blasting with fine abrasive is the preferred method of scarification.

Series 73, 1075. (Intermediate coat may be required for some applications, please contact Tnemec.) **Note:** If an intermediate coat is required, it should be in the same color family but noticeably different than the topcoat color. Tnemec will specify the intermediate color.
Note: When topcoating with Series 1078V, the following maximum recoat times apply: Over 27, 66, 135 or 161, 14 days; over 1075 and itself, 30 days; over 90-97 or 73, 90 days.

Series 1079-0762 (semi-gloss), 1079-0763 (satin)
Note: Series 1078V cannot be topcoated with Series 1079 (high gloss).

SURFACE PREPARATION

AGED COATINGS

ALL SURFACES

Adhesion test patches are required. Contact Tnemec Technical Services or your Tnemec representative for recommendations.

Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS

RECOMMENDED DFT

CURING TIME

50.0 ± 2.0% (mixed) †

2.0 to 3.0 mils (50 to 75 microns) per coat

Temperature	To Touch	To Handle	Minimum Recoat ‡
70°F (21°C)	30 minutes	6-8 hours	12-16 hours

VOLATILE ORGANIC COMPOUNDS

THEORETICAL COVERAGE

NUMBER OF COMPONENTS

MIXING RATIO

PACKAGING

Unthinned: 1.26 lbs/gallon (150 grams/litre)
Thinned 15% (No. 65 Thinner): 1.26 lbs/gallon (150 grams/litre) †

802 mil sq ft/gal (19.7 m²/L at 25 microns) †

Two: Part A and Part B

By volume: Eight (Part A) to one (Part B)

	PART A	PART B	Yield (mixed)
Medium Kit	5 gallon pail (partially filled)	1/2 gallon pail	3 gallons (11.35L)
Small Kit	1 gallon can (partially filled)	1 quart can (partially filled)	1 gallon (3.79L)

NET WEIGHT PER GALLON

STORAGE TEMPERATURE

TEMPERATURE RESISTANCE

SHELF LIFE

FLASH POINT - SETA

HEALTH & SAFETY

11.28 lbs ± 0.25 lbs (5.12 ± .11 kg) (mixed) †

Minimum 20°F (-7°C) Maximum 110°F (43°C)

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

12 months at recommended storage temperature.

Part A: 85°F (29°C) Part B: >200°F (93°C)

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

PRODUCT DATA SHEET

FLUORONAR® METALLIC | SERIES 1078V

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	2.5 (65)	5.0 (125)	321 (29.8)
Minimum	2.0 (50)	4.0 (100)	401 (37.3)
Maximum	3.0 (75)	6.0 (150)	267 (24.8)

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING

Stir contents of the container marked Part A, making sure no pigment remains on the bottom. Add the contents of the can marked Part B to Part A while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. **Caution: Part B is moisture-sensitive and will react with atmospheric moisture. Keep unused material tightly closed at all times.**

THINNING

For air spray, thin 5% to 15% with No. 65 Thinner. Thinning is required for proper application. **Caution: Do not add thinner if more than thirty (30) minutes have elapsed after mixing.**

POT LIFE

2 hours at 70°F (21°C)

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	75-90 psi (5.2-6.2 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure. Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.
Contact Tnemec Company for additional information on application methods.
Note: Brush and roller application is not recommended as it could adversely affect the appearance.
Note: The finished appearance of 1078V can be affected by applicator technique, equipment and environmental conditions. A jobsite mock-up is recommended prior to full-scale application. Reference Technical Bulletin No. 07-65 for more information.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C). The surface should be dry and at least 5°F (3°C) above the dew point.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

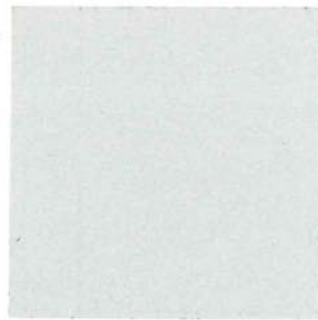
† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

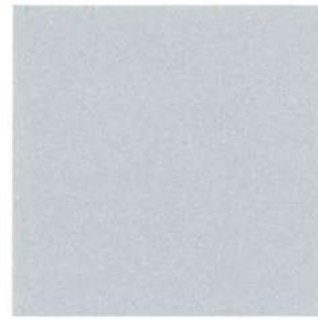
Tnemec Company Incorporated 6800 Corporate Drive Kansas City, Missouri 64120-1372 1-800-TNEMEC1 Fax: 1-816-483-3969 www.tnemec.com



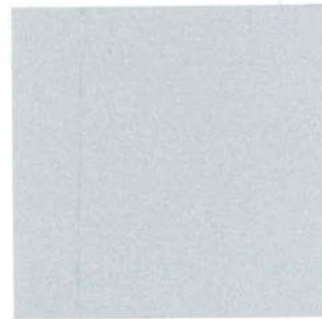
33MT Nickel



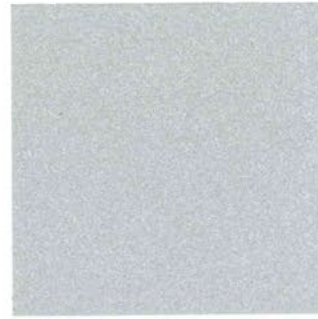
34MT Platinum



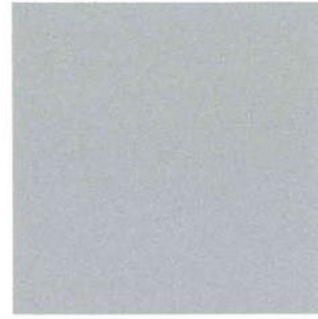
35MT Stainless



39MT Aluminum



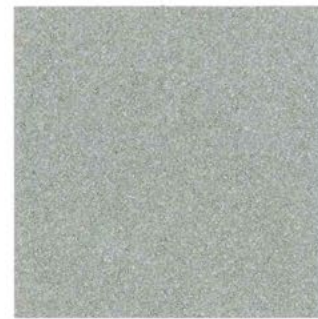
40MT Bright Aluminum



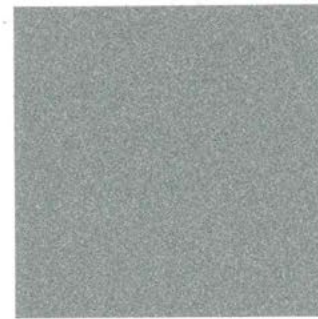
41MT Silver



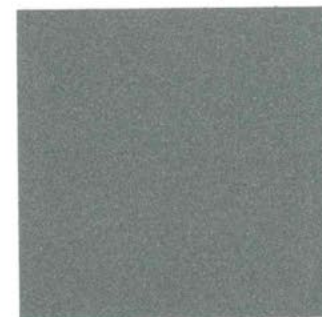
45MT Light Steel*



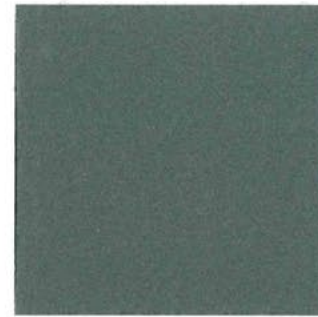
46MT Medium Steel*



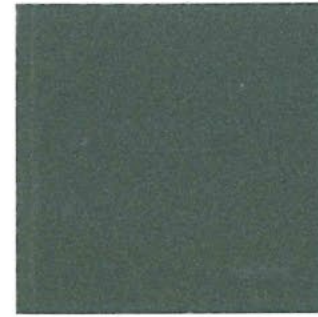
47MT Dark Steel*



61MT Dark Aluminum



62MT Slate Aluminum



63MT Graphite



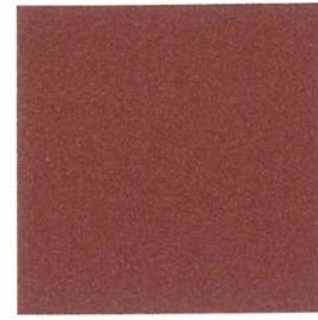
73MT Red Bronze**



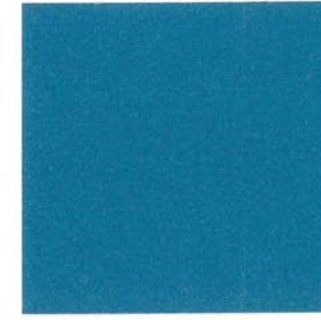
74MT Brown Bronze**



75MT Black Bronze**



80MT Sierra Red



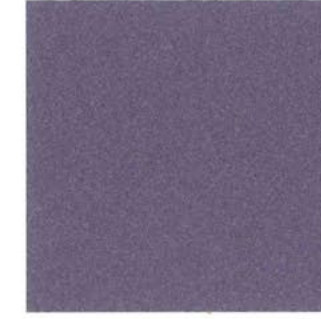
81MT Island Blue



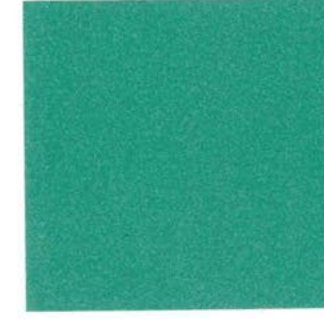
82MT Sequoia Green



83MT Sea Reef



84MT Grape Vine



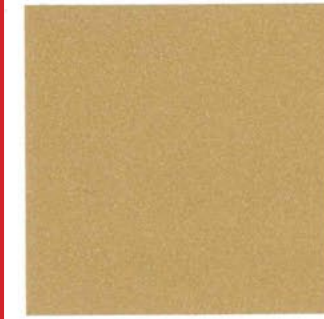
85MT Coral Reef



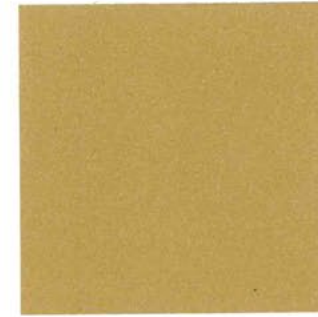
90MT Light Gold**



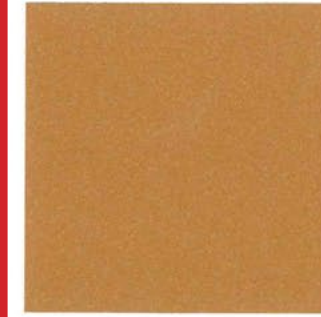
91MT Bright Gold



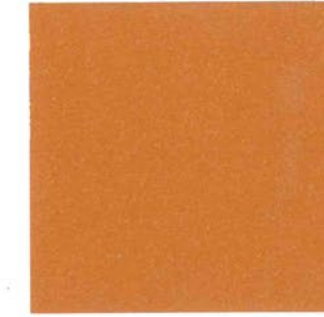
92MT Light Copper



93MT Gold



94MT Medium Copper**

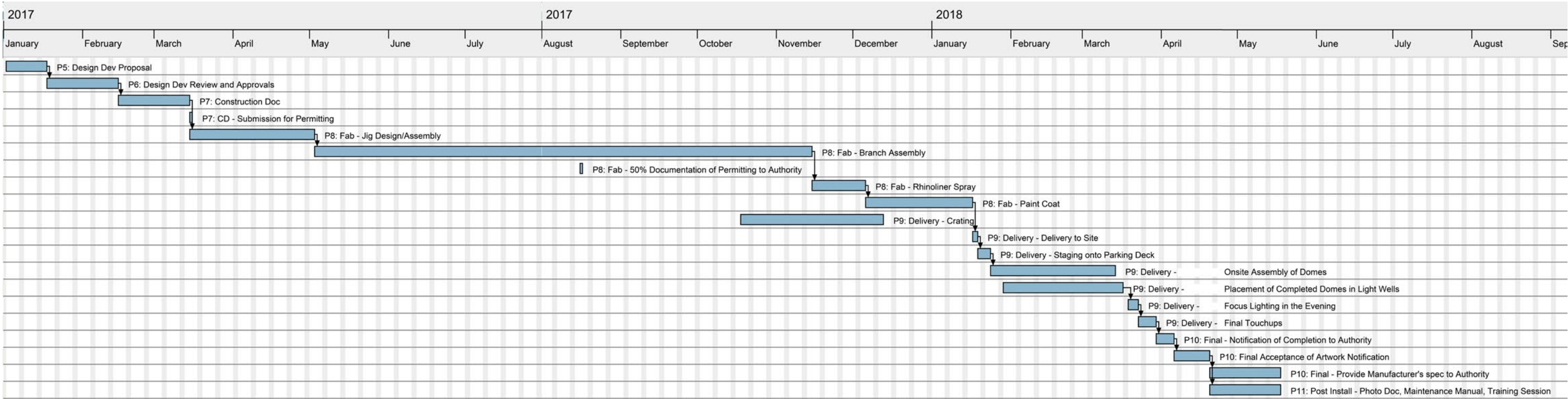


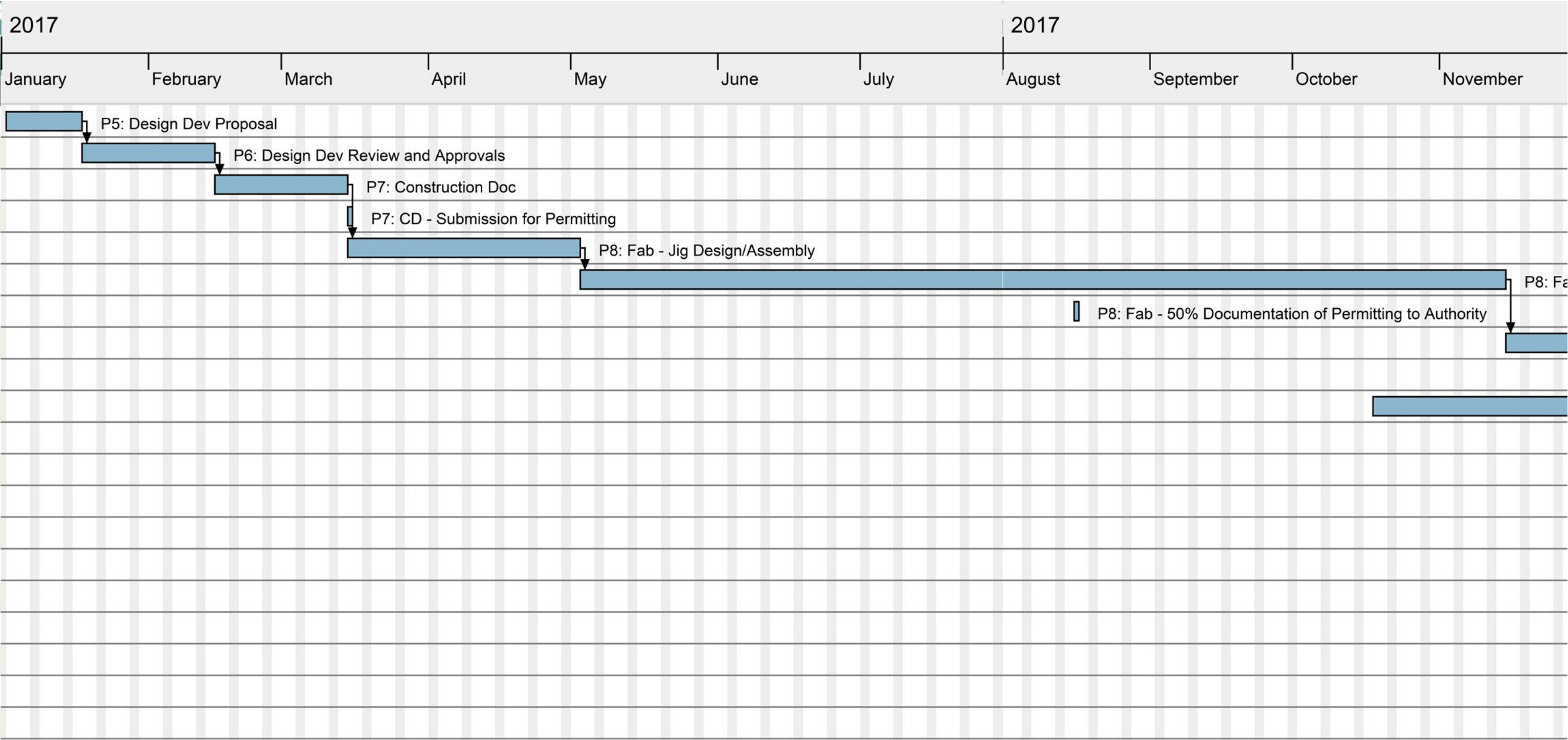
95MT Copper**

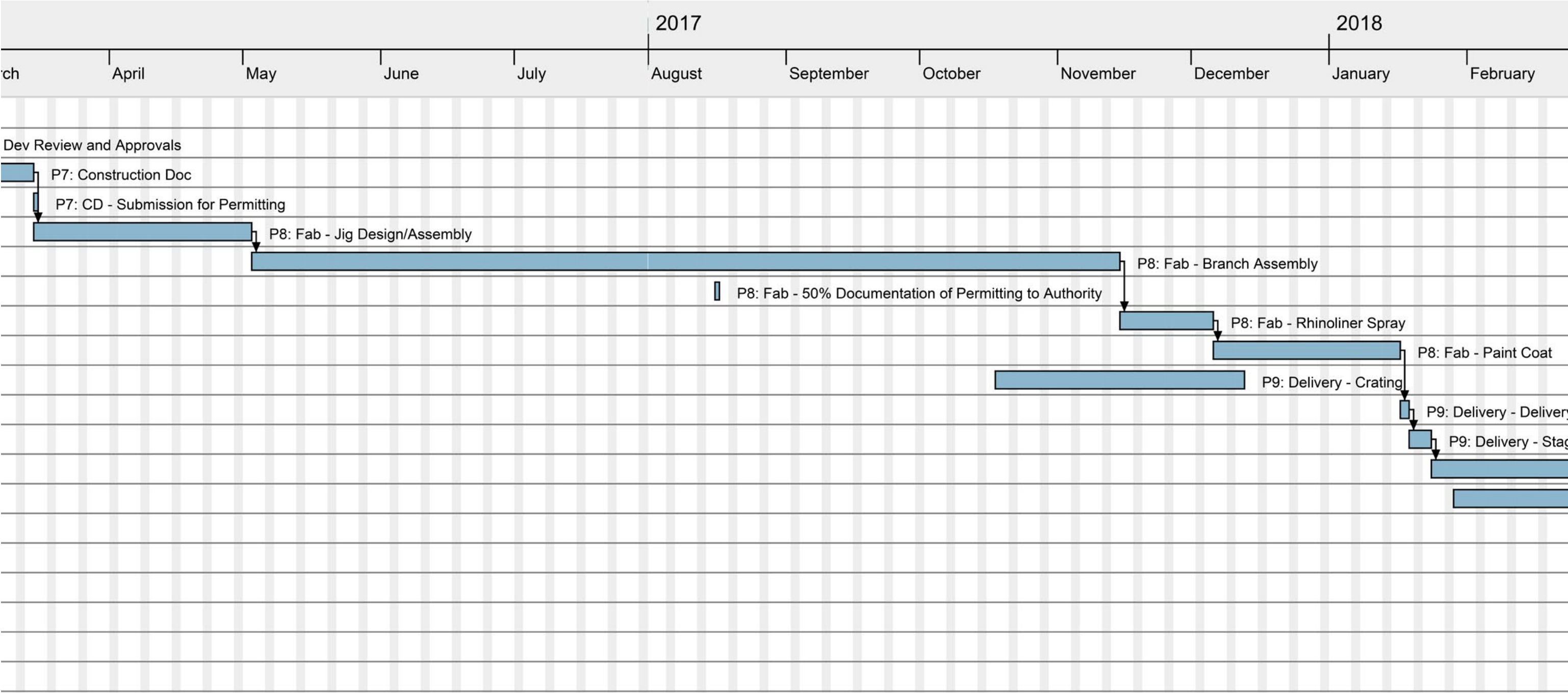
* = includes mio, has a textured surface
** = clear coat required

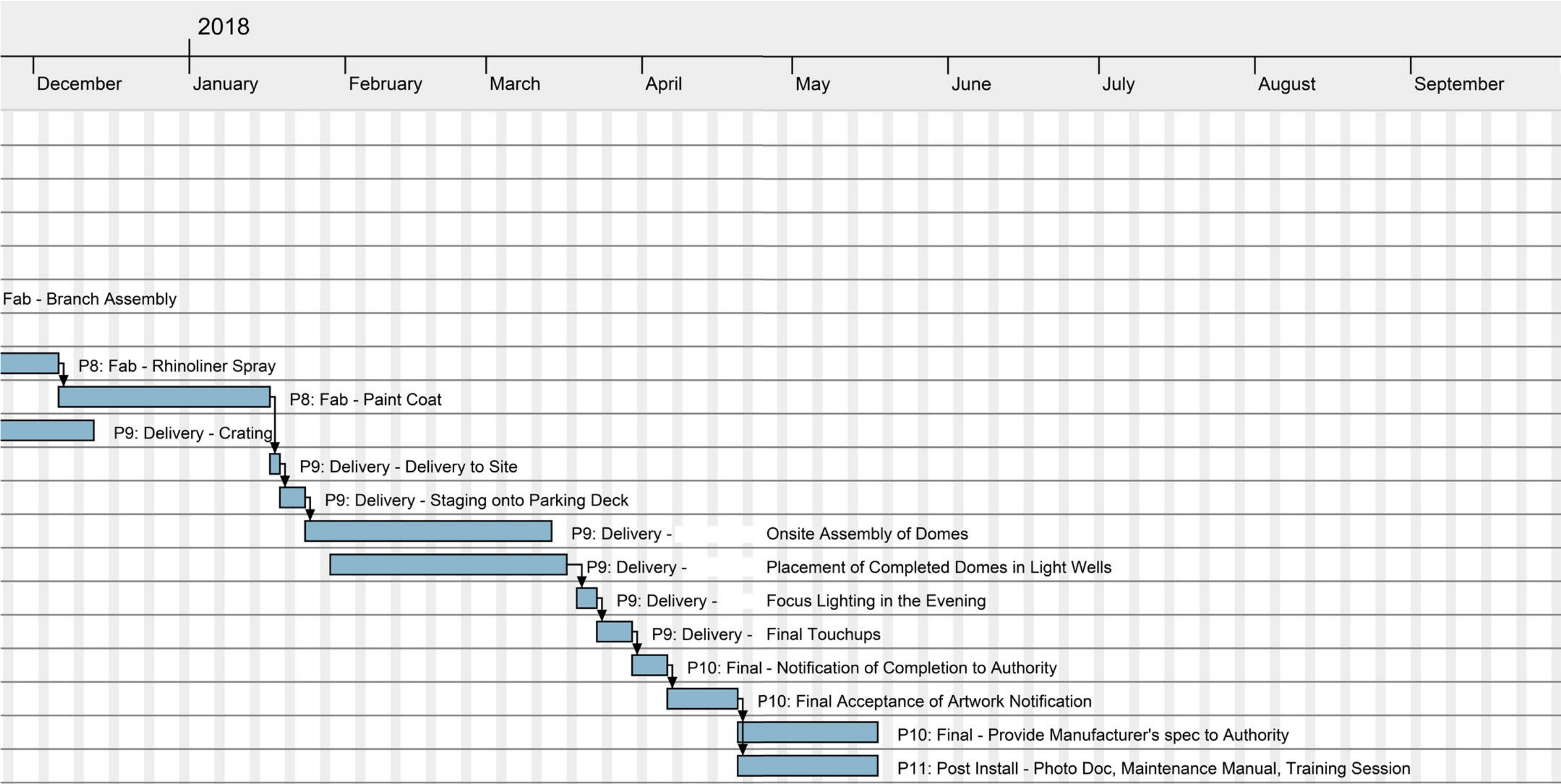
NOTE: Colors represented are reproductions of actual standards and will vary in appearance due to product, texture variations, gloss level, application method, applicator and thickness of the applied film. Some bright or accent colors may require additional coats or a similarly colored primer for opacity. Your Inmec representative can offer assistance with suitable primer selections and color matching.

Metallic Coatings Color Sheet









San Diego Airport Artwork – Preliminary Timeline

Design Development

Approximately 22 weeks (including approvals)

- Establish Stakeholder Requirements
- Site/Data Collection and Research
- Establish Impact Facilities
- Establish Inter-Team Workflow and Deliverables
- Design Development and Documents
- Stakeholder Design Presentation and Meetings
- Schematic Structural Engineering
- Mock-up Testing
- Finalize Design
- Maintenance and Conservation Requirements and Procedures
- Final Design Approvals

Construction Documents

Approximately 4 weeks

- Order Fiberglass
- 50% Construction Documents / Present to Stakeholders
- Structural Engineering Construction Drawings
- 100% Construction Documents / Present to Stakeholders
- Plan Check (if required)
- Permitting and Licensing (if required)
- Process Reports
- Construction Document Revision
- Submit to Stakeholders
- Prepare Bid Set
- Bidding Assistance and Bid Evaluation

Fabrication and Installation

Approximately 13 months

- Fabricator Meetings / Coordination / Quality Control
- Programming Coordination
- Material Deliverables
- Finish Samples / Sample Parts
- Deliver Work
- Stakeholder Acceptance / Notice to Proceed
- Installation Schedule Review
- Site Preparation
- Revisions and Change Orders
- Evaluate Change and Cost Proposal
- Staging
- On Site Installation
- Progress Reports
- Record Set
- Notification of Completion
- Stakeholder / City Inspection
- Outline Maintenance Guidelines
- Final Acceptance

San Diego Airport Artwork – Preliminary Materials & Suppliers List

Materials

Materials for scheme may include:

- 1. Fiberglass rods and tubes
- 2. Polyurea coating
- 3. Resin and Fiberglass
- 4. Paint Coating

Potential Suppliers

Strongwell
400 Commonwealth Ave.
Bristol, VA 24201
Phone 276-645-8132
www.strongwell.com

TPC Consultants, Inc.
417 East Weber Ave,
Compton, CA 90222
Phone 310-637-4161
www.tnemec.com

Rhino Linings Corporation
9747 Businesspark Ave
San Diego, CA 92131
Phone 858-450-0441
www.rhniolinings.com

McMaster-Carr Supply Co
9630 Norwalk Blvd.
Santa Fe Springs, CA 90670
Phone 562-692-5911
www.mcmaster.com

San Diego Airport Artwork – Preliminary Maintenance and Safety Plan

Routine Maintenance

In the event that the installation acquires dirt or dust, we recommend using a low pressure sprayer with wand attachment and/or lift (see below) to clean when necessary. Mild soap can be used and then followed by a water rinse, then allowed to air dry.



In the event of a component breaking, contact the Artists.

Long Term Maintenance

The fiberglass tubes will be completely finished and covered with polyaspartic polyurea, polyamidoamine epoxy, or equivalent materials. These lining systems have excellent weather, abrasion, and corrosion resistance. See attached data sheets for more details. If deemed necessary by the client, a reapplication of the topcoat color may be required.

Safety

The installation is out of reach of physical interaction and should not represent any safety issues to the public.

Date:	11/17/2017	San Diego Airport - Preliminary Budget Estimate			
				Budget:	\$905,000.00
Phase	Item Discription	Quantity	Units	Price/Unit	Projected Price \$
Design, Engineering and Administration					
	Artists Fee - Design & Administration	15%	of total contract value		\$135,750.00
	Structural Engineering				\$20,000.00
	Architectural Code Consultant				\$1,000.00
	Facility Engineer				\$3,000.00
				Services Subtotal:	\$159,750.00
Shop					
	Shop Rent & Utilities	6.0%	of total contract value		\$54,300.00
	Production Management / Foreman				\$84,000.00
	Business Management - Wood Freeman	5%	of total contract value		\$45,250.00
	Extra Rental Storage and Paint Space				\$6,000.00
	Misc. Materials and Expendables				\$2,500.00
				Shop Subtotal:	\$192,050.00
Mockup Fabrication					
				Mockup 1 Fabrication, Assembly, Coating Subtotal	\$4,675.00
				Mockup 2 Fabrication, Assembly, Coating Subtotal	\$14,106.80
				Mockup Subtotal:	\$18,781.80
Fixtures					
	Quadrant Sub-Assembly Fixtures	2	Materials and Labor		\$8,000.00
	Painting Fixture	1	Materials and Labor		\$2,500.00
	Lifting Fixture	1	Materials and Labor		\$2,500.00
	Onsite Assembly Fixture	1	Materials and Labor		\$2,500.00
				Fixture Subtotal	\$15,500.00
Dome Fabrication and Sub-Assembly					
				Single Quatrant Fabrication,Sub- Assembly, Coating Subtotal	\$8,427
	Single Dome Fabrication, Sub-Assembly, Coating	4	Quadrants	\$8,427.00	
				Single Dome Fabrication, Sub-Assembly, Coating Subtotal:	\$33,709.08
	Domes Fabrication, Sub-Assembly, Coating	7.5	Domes	\$33,709.08	\$252,818.10
				Dome, Sub-Assembly, Fabrication Subtotal:	\$252,818.10
Attachment Plate					
	Fiberglass Attachment Plate	16		\$750.00	
				Attachment Plate Fabrication Subtotal	\$12,000.00
Paint					
	Decorative Material & Labor				\$19,000.00
				Coating Material & Subtotal	
Tools					
	Misc. Tool Purchases				\$2,500.00
				Tools Subtotal:	\$2,500.00
Outside Services					
	File Prep - Pylon Technical	2%	of total contract value		\$18,100.00

	Composites Consultant				\$6,500.00
	Coating Consultant				\$2,000.00
				Outside Services Subtotal:	\$26,600.00
Site Preparation					
					\$0.00
				Site Preparation Subtotal:	\$0.00
Onsite Final Assembly and Installation					
	BNS Installation Labor	25	days, 4 people	\$22.50	\$18,000.00
	Equipment Rental				\$10,000.00
	Onsite expendables				\$2,000.00
	Mechanical Fastners				\$2,500.00
				InstallationSubtotal:	\$32,500.00
Permitting					
	Permit Fees				\$7,500.00
	Preliminary Review Fee				\$946.00
	Inspections - Nelson stud welds				\$2,500.00
				Permitting Subtotal:	\$10,946.00
Insurance					
	Liability Ins Policy	2.00%	of total contract value		\$18,100.00
	Umbrella Policy	0.25%	of total contract value		\$2,262.50
	Workers Comp	2.00%	of total value of BNS labor		\$4,491.00
	Business Auto Liability	0.50%	of total contract value		\$4,525.00
	Endorsements	3		\$50.00	\$150.00
				Insurance Subtotal:	\$29,528.50
Diposal					
	Studio waste disposal				\$750.00
				Disposal Subtotal:	\$750.00
Transportation					
	Local Shipping Between Shop & Vendors				\$3,500.00
	Estimated Shipping to Site				\$7,000.00
	Materials for packing, crating & shipping				\$3,000.00
				Transport Subtotal:	\$13,500.00
Travel					
	Commuter Train	20	round trips	\$75.00	\$1,500.00
	Hotel Rental	25	days, 4 people	\$125.00	\$12,500.00
	Food Allowance	25	days, 4 people	\$65.00	\$6,500.00
	Mileage	3000	miles	\$0.57	\$1,710.00
				Travel Subtotal:	\$22,210.00
Miscellaneous					
	Contingency	10%	of total contract value		\$90,500.00
	Photography				\$2,000.00
	Samples, Test Materials				\$2,000.00
	Legal fees				\$1,000.00
	Postal Services				\$250.00
	Drawings/Prints				\$250.00
	Phone/fax/Webex				\$250.00
	Office Supplies				\$225.00
				Misc. Subtotal:	\$96,475.00
				TOTAL	\$904,909.40
	Storage for longer than 60 days will be paid by the client at a rate of \$1500 / month				



AIRPORT DEVELOPMENT PLAN BRIEFING

January 26, 2017

Presented by:

Angela Jamison

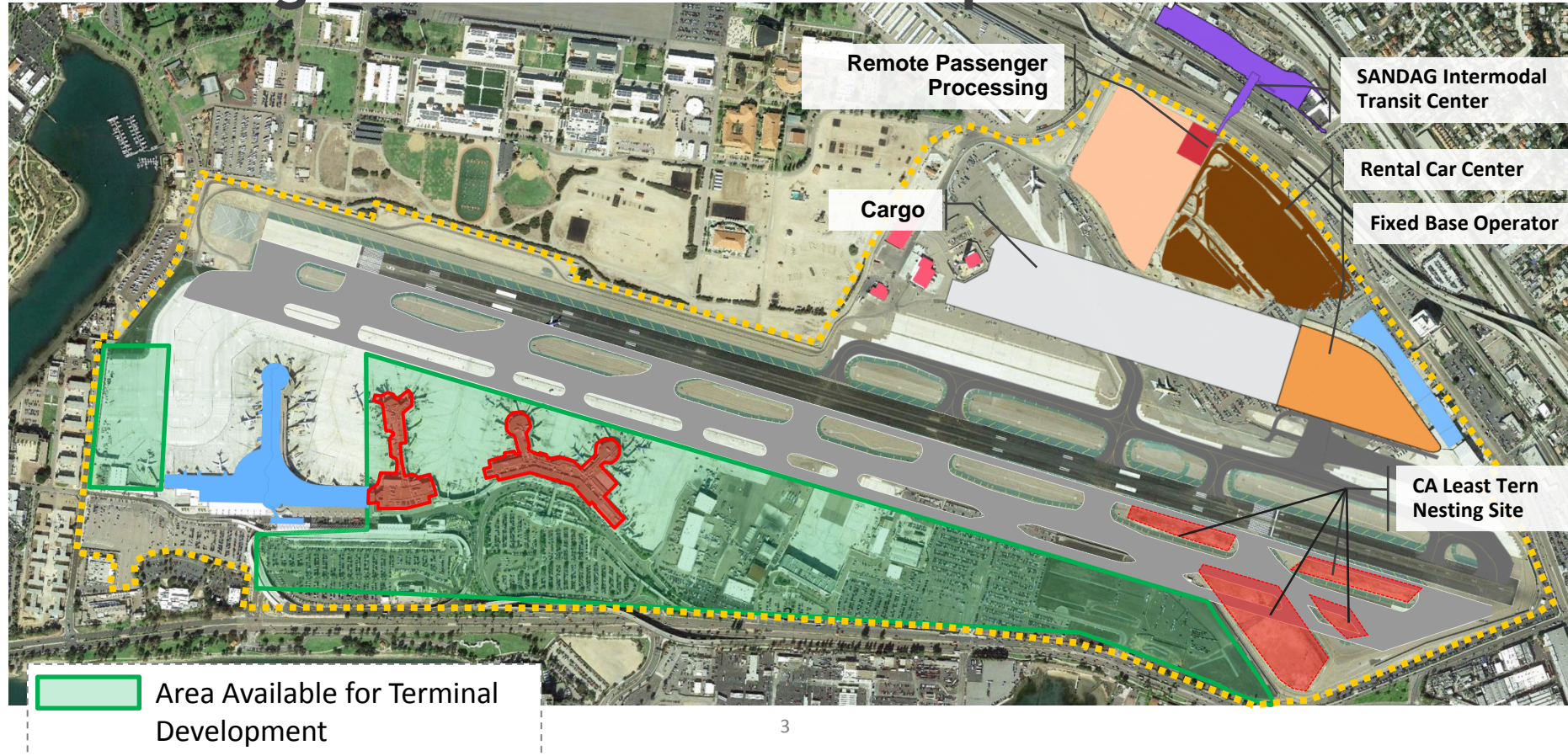
Acting Director, Airport Planning & Noise Mitigation

What is the Airport Development Plan?

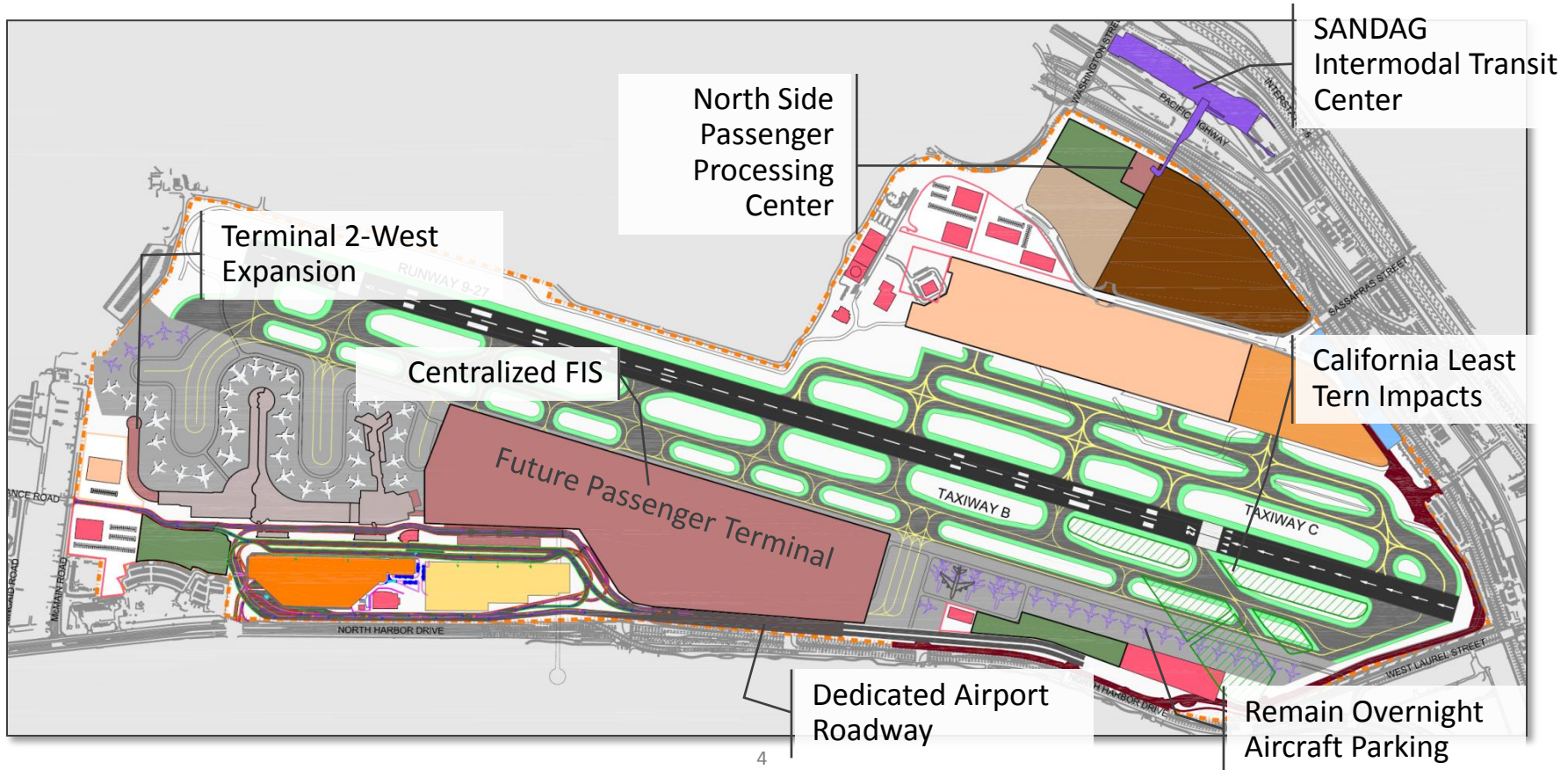
- In 2006 a county-wide ballot measure to move the airport was defeated
- Therefore, SAN will continue in its current location for the foreseeable future
- The Airport Development Plan (ADP) will define optimal development at SAN



Defining the Terminal Development Boundaries

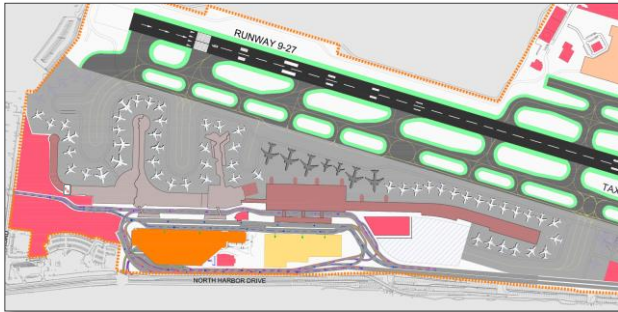


Common Elements in Alternatives

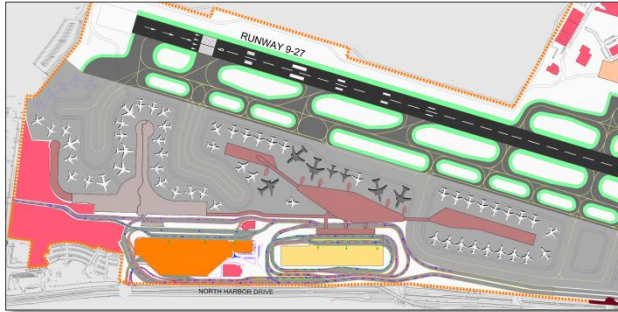


ADP Terminal Alternatives

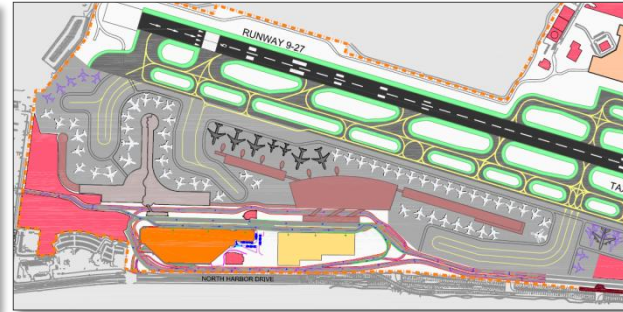
Alternative 1



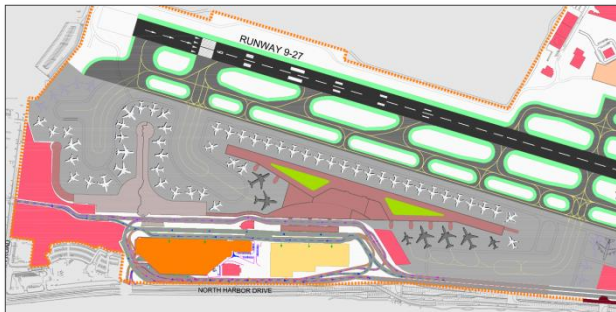
Alternative 2



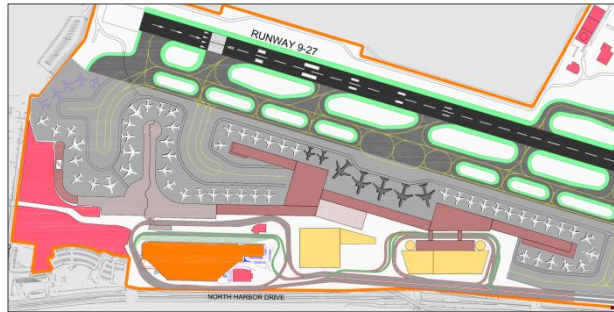
Alternative 3



Alternative 4



Alternative 5



Alternatives Evaluation Summary Results

	Alt. 1	Alt. 4	Alt. 5
Phase 1	66	59	48
Ultimate Build-Out	138	132	132

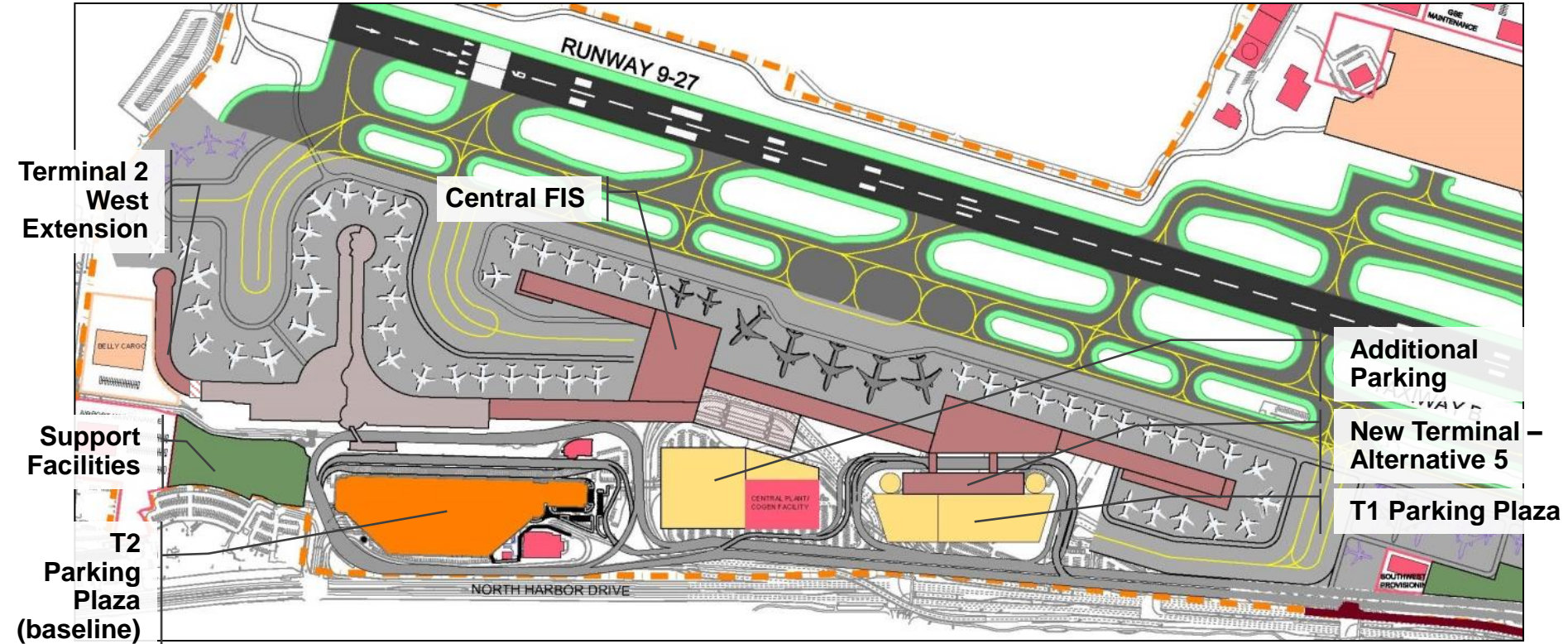
Note: The lower the score the higher the ranking

Rough Order of Magnitude Preliminary Costs

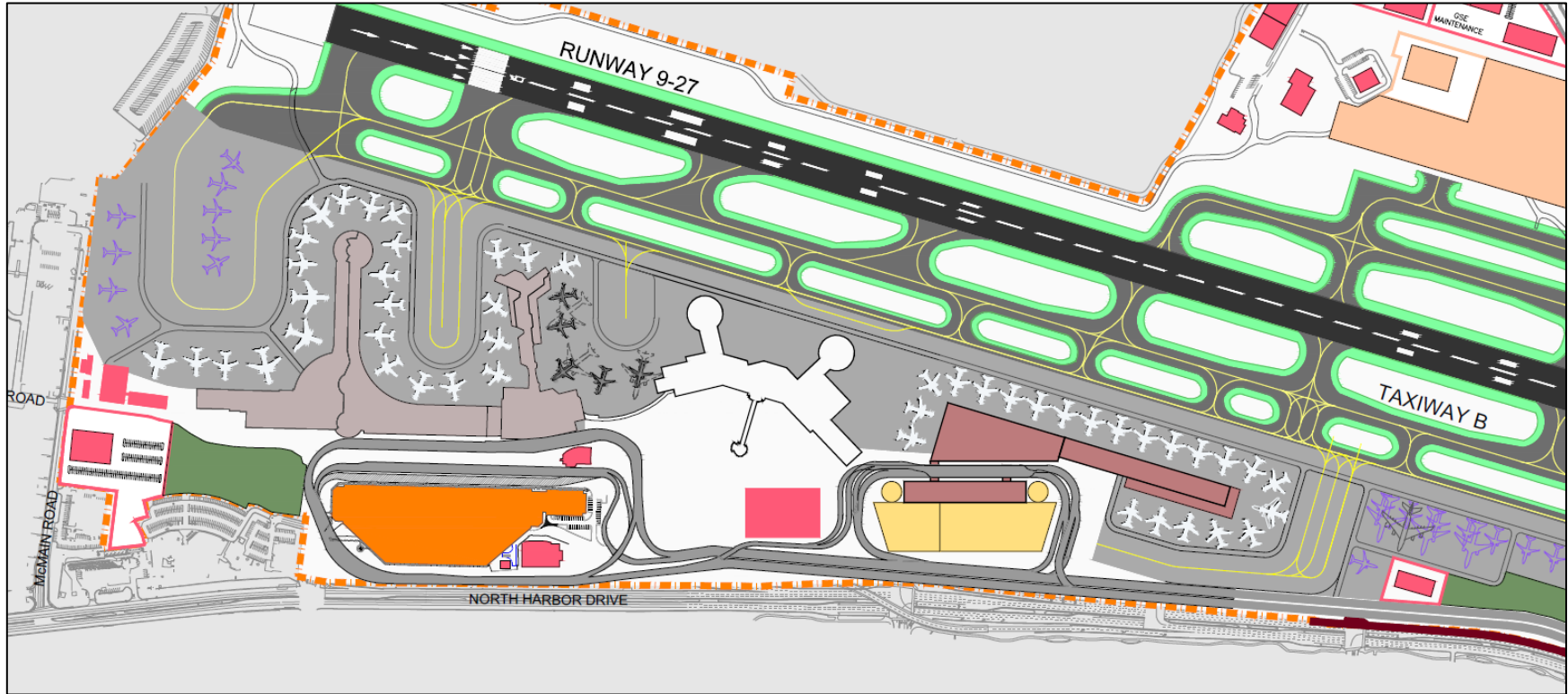
- ROM cost estimates only include ADP projects

Alternative	Capital Cost (2015 dollars)
1	\$2.3 billion
2	\$2.4 billion
3	\$2.4 billion
4	\$2.6 billion
5	\$2.2 billion

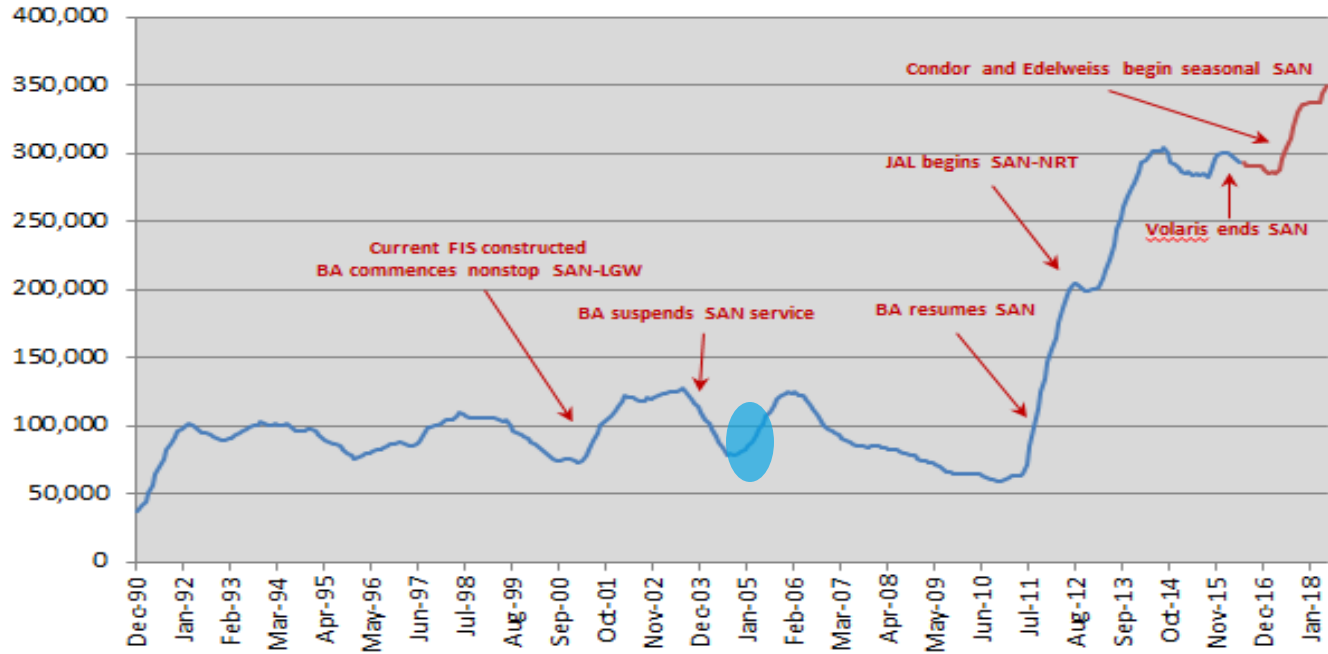
Alternative 5: Ultimate Configuration



Alternative 5 - Phase 1 Configuration

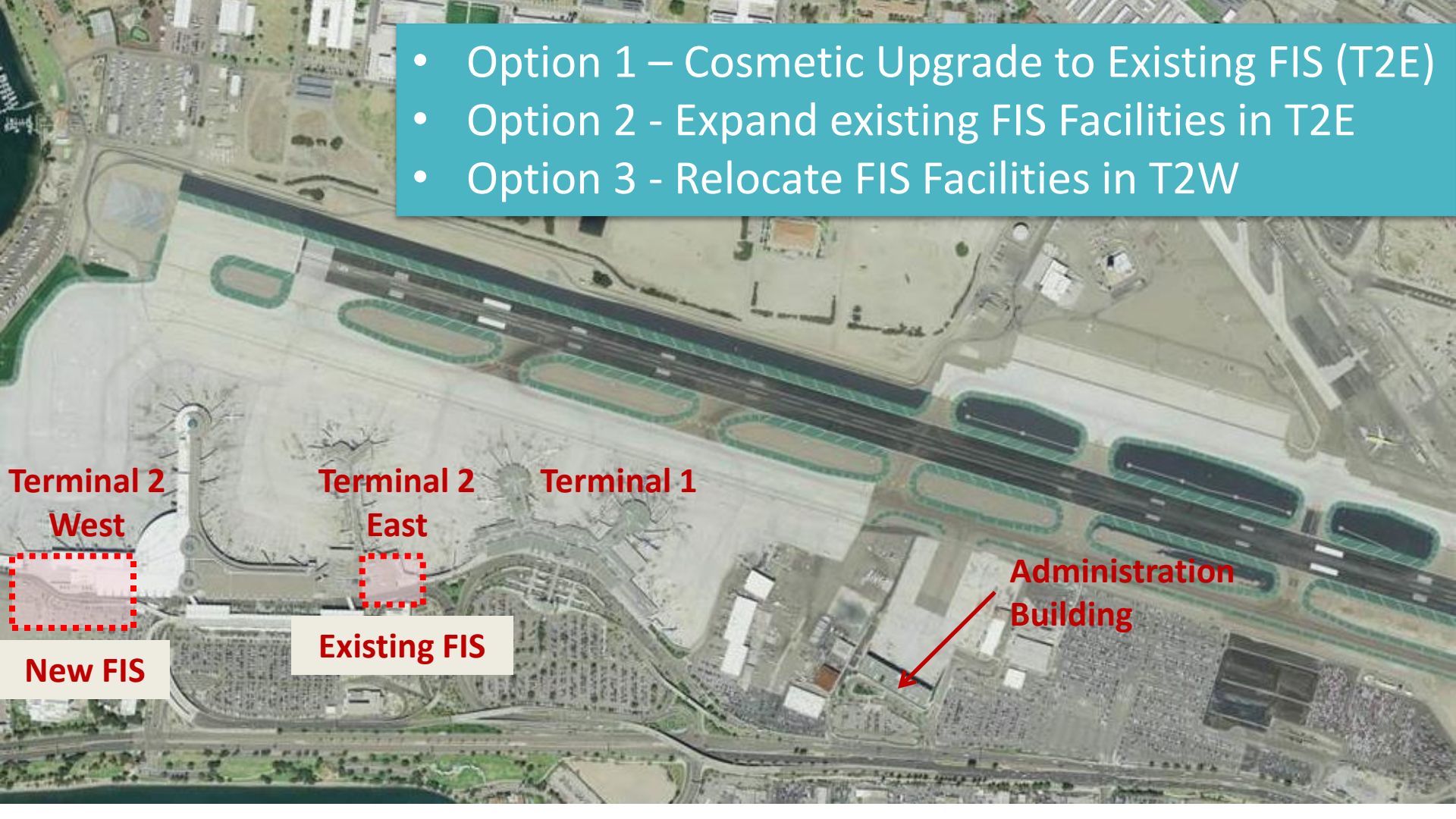


International (FIS) Arrivals have Grown Dramatically in San Diego

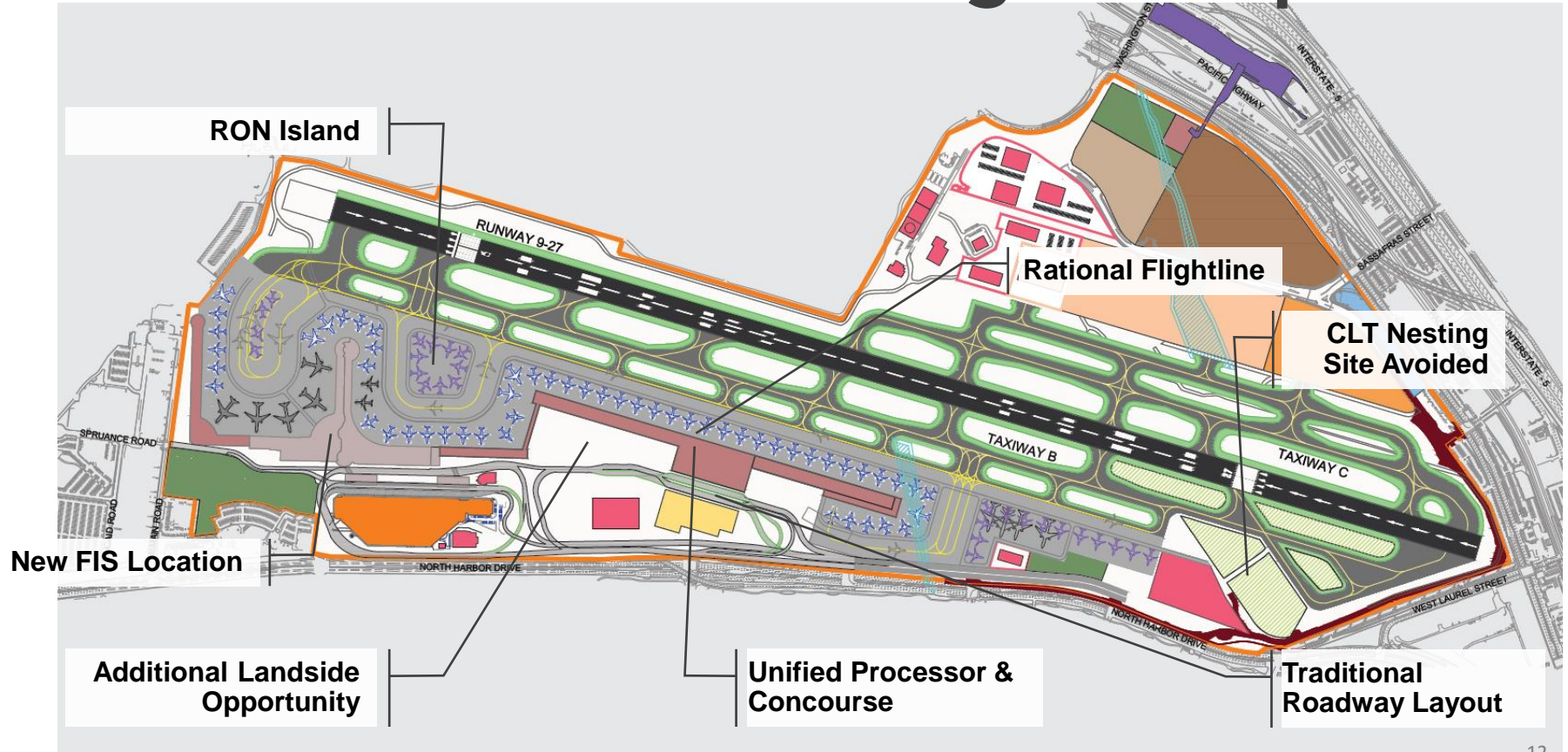


Source: DOT T100 dataset and SDCRAA air carrier reports (excl. Canadian arrivals)
Year ending relevant months

- Option 1 – Cosmetic Upgrade to Existing FIS (T2E)
- Option 2 - Expand existing FIS Facilities in T2E
- Option 3 - Relocate FIS Facilities in T2W



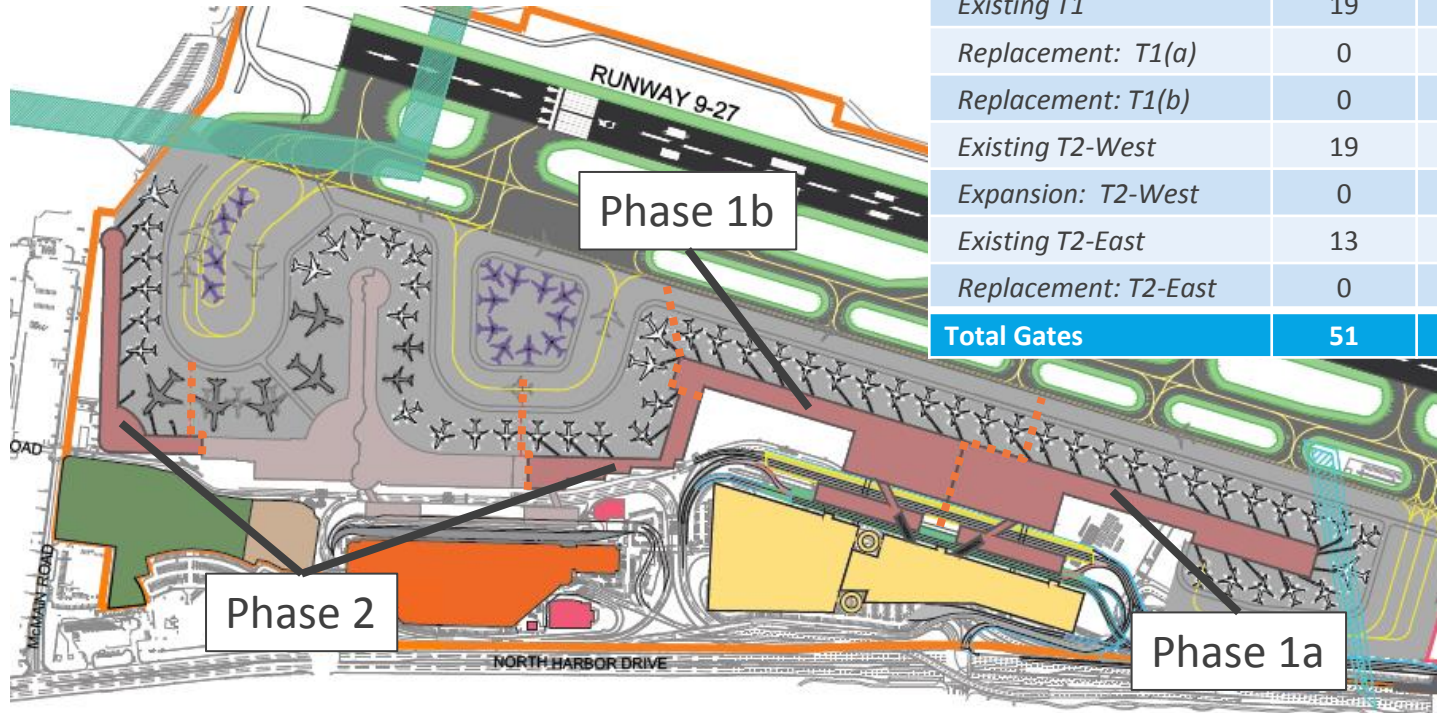
Preferred Planning Concept



Program Definition Status

- Terminal Refinements
 - Programmatic documents continue to define the terminal and concourse scope (for Phase 1) based upon the Preferred Planning Concept
- Roadway Refinements
 - Additional opportunities to reuse as much of the existing T1 roadways are being explored as well as options to configure the new terminal roadways similar to the design at Terminal 2
- Support Facilities Refinements
 - Now addressing program definition for phasing and implementation

Construction Phasing Amended Preferred ADP Concept



Terminal	Existing	Phase 1a	Phase 1b	Phase 2
Existing T1	19	16	0	0
Replacement: T1(a)	0	18	18	18
Replacement: T1(b)	0	0	12	12
Existing T2-West	19	19	19	17
Expansion: T2-West	0	0	0	7
Existing T2-East	13	11	11	0
Replacement: T2-East	0	0	0	7
Total Gates	51	64	60	61



LEGEND

- Airport Property Line
- California Least Tern Nesting Site

AIRFIELD FACILITIES

- Runway
- Taxiway
- Apron
- Shoulder

PASSENGER TERMINAL FACILITIES

- Existing Passenger Terminal (to Remain)
- Future Passenger Terminal
- Decommissioned Existing Terminal 1
- Domestic Aircraft Parking Position
- International Aircraft Parking Position
- Remote Aircraft Parking Position

GROUND TRANSPORTATION FACILITIES

- Roadway
- T1 Parking Plaza
- On-Airport Access Roadway (Right-of-Way)

SUPPORT FACILITIES

- SANDAG Intermodal Transit Center
- Airport Support / New Central Utility Plant
- Commercial Development Area



PHASE 1A DEVELOPMENT CONCEPT
Figure 2

Airport Development Plan
January 2017



LEGEND

- Airport Property Line
- California Least Tern Nesting Site

AIRFIELD FACILITIES

- Runway
- Taxiway
- Apron
- Shoulder

PASSENGER TERMINAL FACILITIES

- Existing Passenger Terminal (to Remain)
- Future Passenger Terminal
- Decommissioned Existing Terminal 1
- ✈
 Domestic Aircraft Parking Position
- ✈
 International Aircraft Parking Position
- ✈
 Remote Aircraft Parking Position

GROUND TRANSPORTATION FACILITIES

- Roadway
- T1 Parking Plaza
- On-Airport Access Roadway (Right-of-Way)

SUPPORT FACILITIES

- SANDAG Intermodal Transit Center
- Airport Support / New Central Utility Plant
- Commercial Development Area



PHASE 1B DEVELOPMENT CONCEPT
Figure 2

Airport Development Plan
January 2017



LEGEND

- Airport Property Line
- California Least Tern Nesting Site

AIRFIELD FACILITIES

- Runway
- Taxiway
- Apron
- Shoulder

PASSENGER TERMINAL FACILITIES

- Existing Passenger Terminal (to Remain)
- Future Passenger Terminal
- Decommissioned Existing Terminal 1
- Domestic Aircraft Parking Position
- International Aircraft Parking Position
- Remote Aircraft Parking Position

GROUND TRANSPORTATION FACILITIES

- Roadway
- T1 Parking Plaza
- On-Airport Access Roadway (Right-of-Way)

SUPPORT FACILITIES

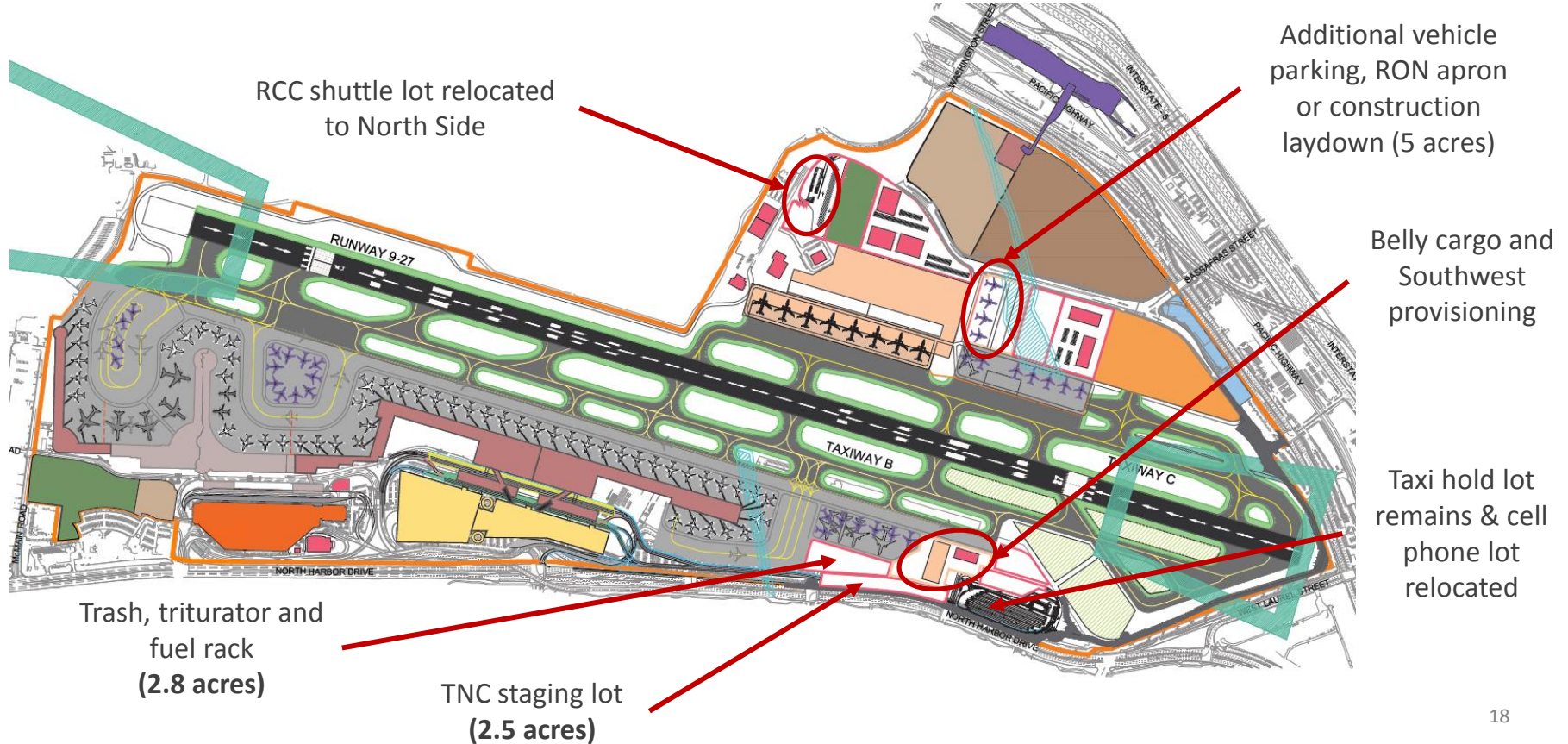
- SANDAG Intermodal Transit Center
- Airport Support / New Central Utility Plant
- Commercial Development Area



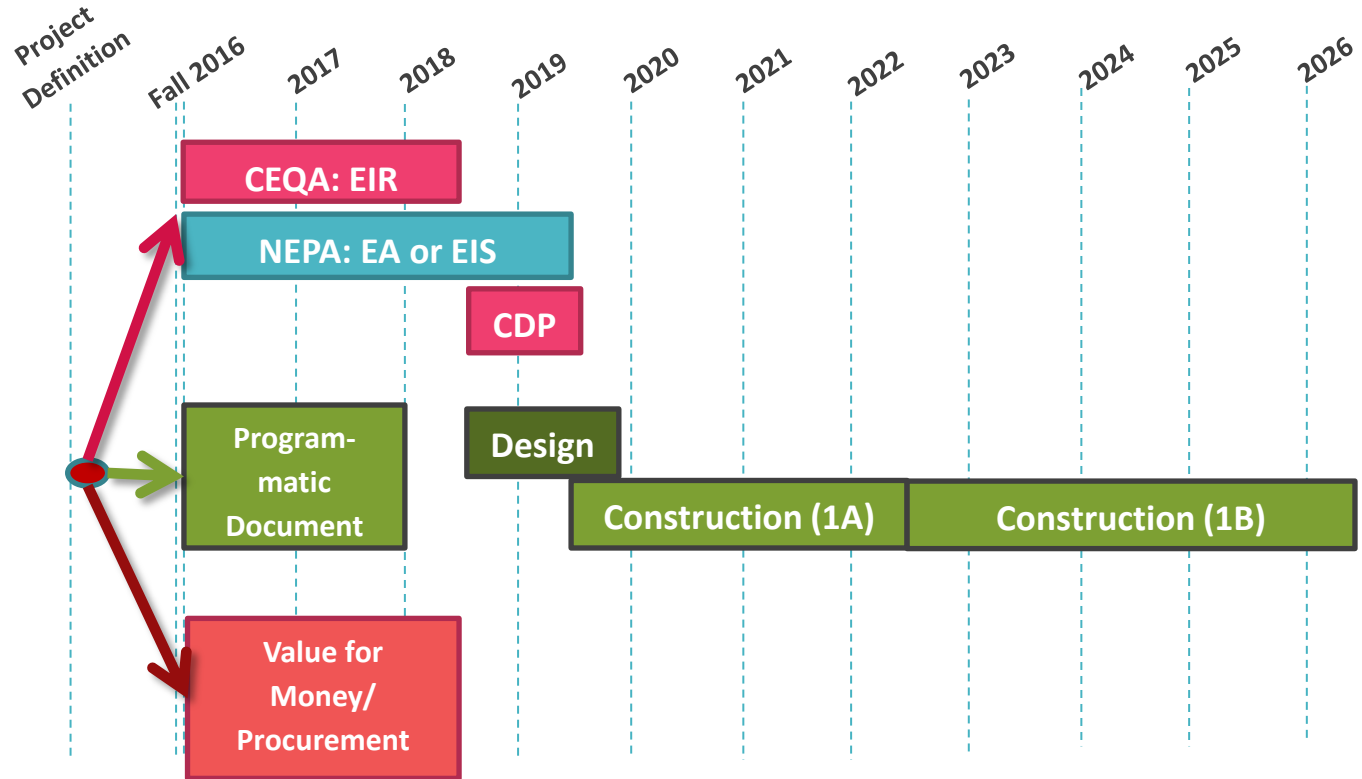
PHASE 2B DEVELOPMENT CONCEPT
Figure 2

Airport Development Plan
January 2017

Cargo and Airport Support Facility Plan



Anticipated Schedule Phases 1A and 1B



Next Steps

- Continue Environmental Analyses
- Continue Program Definition / Refinement
- Prepare Value for Money Analysis

Questions?



Interoffice Communication

Date: January 26, 2017
To: Art Advisory Committee
From: Lauren Lockhart, Arts Program Manager
Subject: Background Memo: Commuter Terminal Exterior Wall Public Art

Background: On September 4, 2013, the recommendation of artist Jari “Werc” Alvarez for the Commuter Terminal Exterior Wall Public Art Opportunity was approved by the Art Advisory Committee. Werc created three original, two-dimensional designs for the former Commuter Terminal exterior wall, all inspired by the golden age of aviation and San Diego’s contribution to aeronautical history. The first of these digital designs was produced by the Authority as a large-scale mural and installed in March 2014. The second and third designs are entitled *Work Flow* and *On the Map* respectively. *Work Flow* features Werc’s signature aesthetic style, characterized by bold geometric forms intersecting with representational elements. *On the Map*’s composition was influenced by input gathered from multiple community visioning forums, as well as a day-long workshop with high school students from the Museum of Contemporary Art’s Teen Art Group (TAG).



Jari 'Werc' Alvarez, *Work Flow*, 2015



SAN DIEGO

INTERNATIONAL AIRPORT

ARTS PROGRAM

ARRIVE, DEPART,
BE INSPIRED.



Jari 'Werc' Alvarez, *On the Map*, 2015

Per the original project opportunity, each mural design is to be displayed for 3-5 years. As the current mural design approaches 3 years on display, and the Airport Development Plan accelerates, staff wishes to finalize a schedule and sequence of these displays.

In an effort to engage Authority staff in arts programming, staff recommends facilitating an Authority-wide poll to determine which of the two remaining designs is installed next. Staff also recommends shortening the proposed duration of each mural's exhibition period from 3-5 years to 2-3 years to accommodate the anticipated ADP timeline.

Recommendation: Provide feedback to Arts Program staff on the installation schedule and Authority-wide engagement regarding mural selection.



ARRIVE, DEPART,
BE INSPIRED.

Staff Updates

Lauren Lockhart
Arts Program Manager

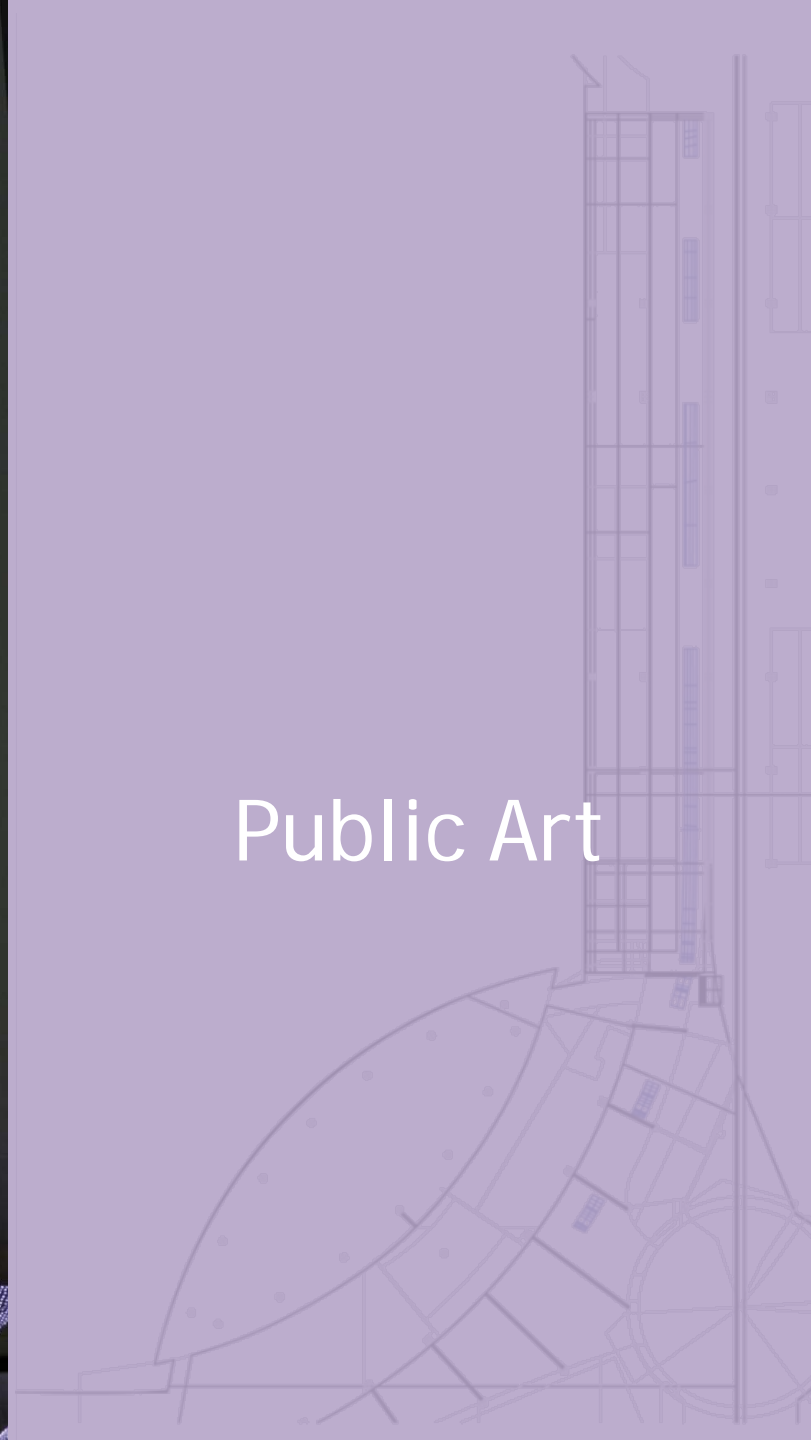
Joey Herring
Arts Program Coordinator

Chris Chalupsky
Sr. Manager, Arts & Community Partnerships

January 26, 2017

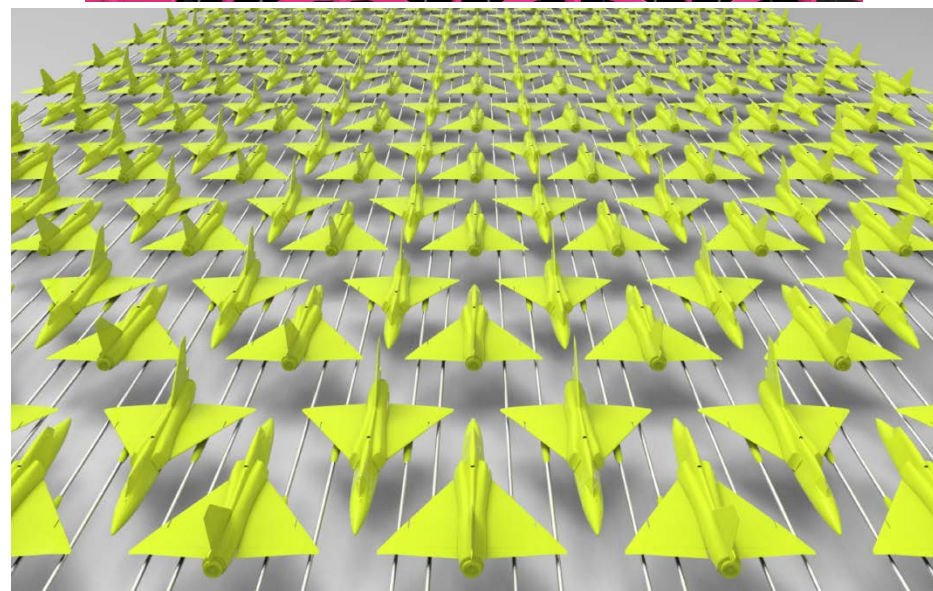
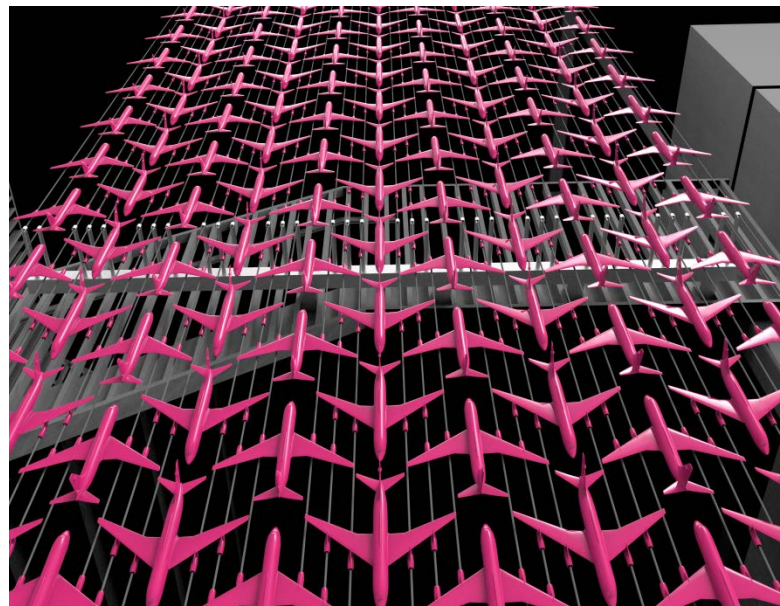
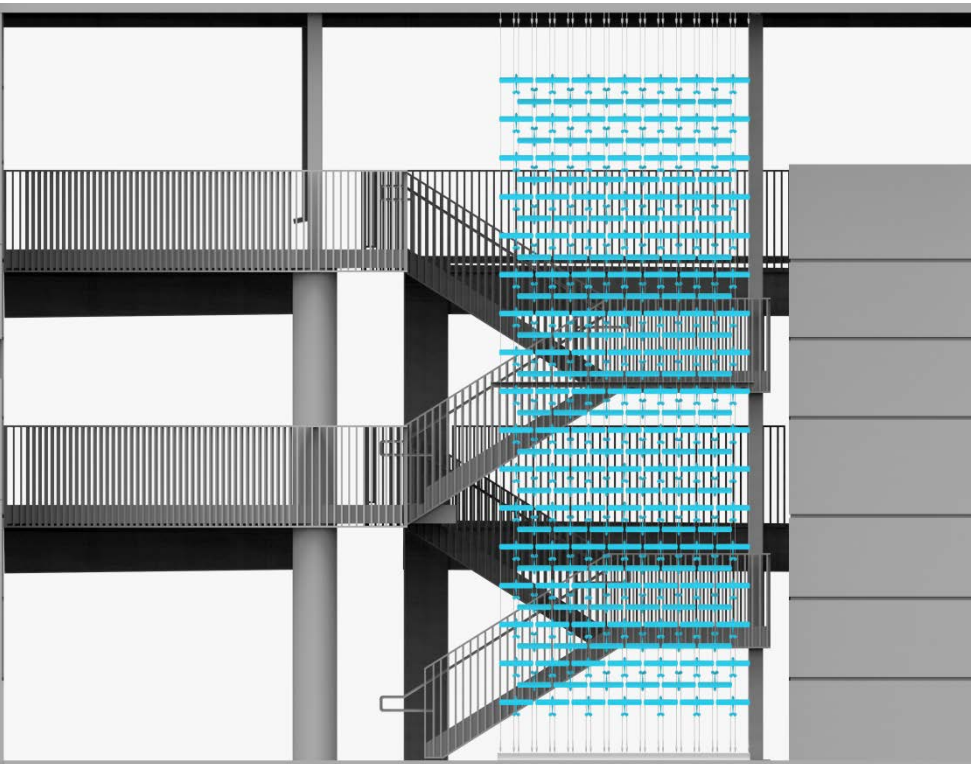


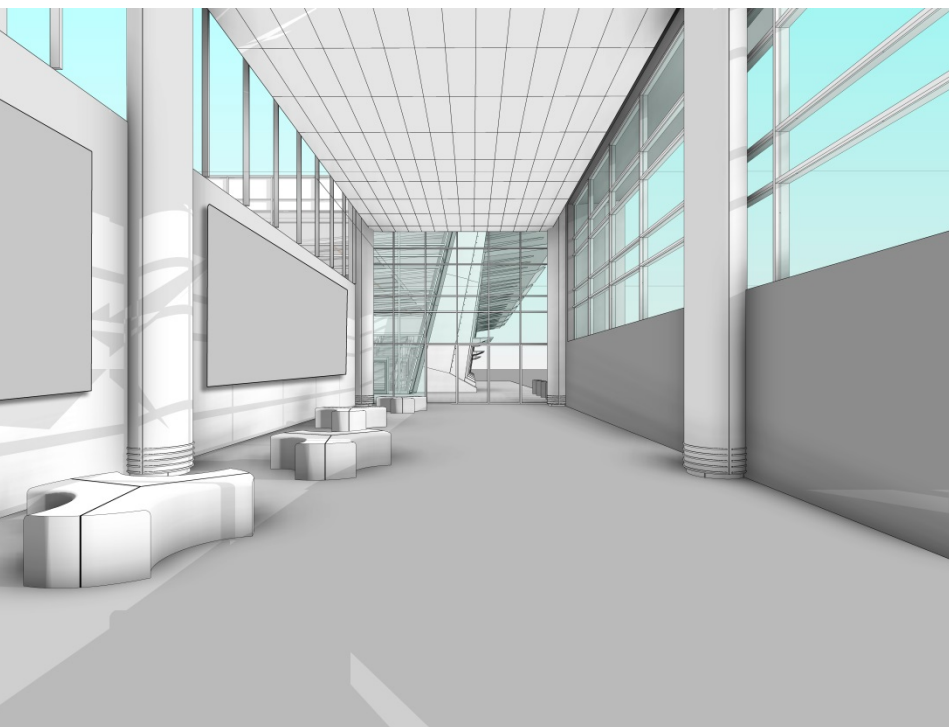
Public Art











FIS Atrium Lobby Stairs Conceptual Site Rendering

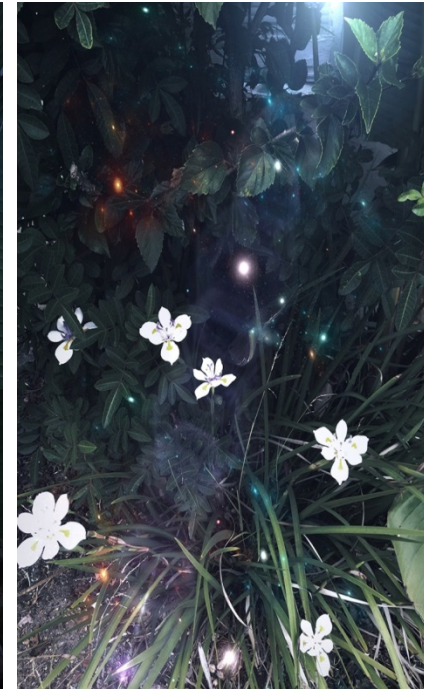


FIS Glass Partition Wall/Baggage Claim Conceptual Site Rendering

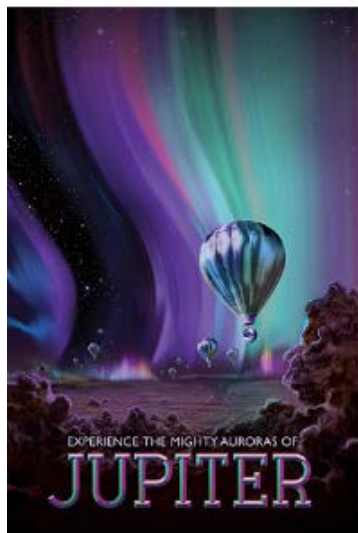


Temporary Exhibitions Program

INTERGALACTIC DREAMING







Exhibitor : NASA/Cal-Tech with Dan Goods and David Delgado
 Site: Terminal 2 East
 Connecting Corridor (post-security)
 Installation: Completed





Exhibitor : Michael Giancristiano
Site: Terminal 2 West End Gallery
(post-security)
Installation: Completed



Exhibitor : Lisa Blatt
Site: Terminal 2 West End Gallery
(post-security)
Installation: Completed









Exhibitor : Irene de Watteville
 Site: Terminal 2 West
 Baggage Claim Display Cases (pre-security)
 Installation: Completed



Exhibitor : Sheena Rae Dowling
 Site: Terminal 2 West
 TSA Checkpoint (pre-security)
 Installation: January 2017









Exhibitor : High Tech High Chula Vista
Site: Terminal 2 West (pre-security)
Installation: January 2017



Performing Arts Program



ROAD WARRIOR VOICES

ADVICE

MILES & POINTS

HOTELS

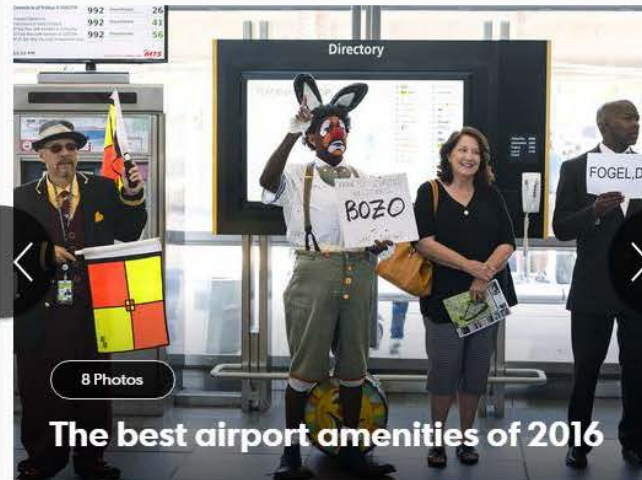
YOUR VOICE

The best airport amenities of 2016

Harriet Baskas, Special for USA TODAY

8:07 a.m. ET Dec. 28, 2016

699 Shares



Air travelers are dealing with increasingly crowded airports and, in many cities, terminals that are bursting at the seams or under construction.



SCHOLARSHARE

CALIFORNIA'S 529 COLLEGE SAVINGS PLAN

Click to open
your account today.

TIAA-CREF Individual & Institutional Services, LLC, member FINRA,
distributor and underwriter for the ScholarShare College Savings Plan.

MOST POPULAR



Universal Orlando in 2017: A new
water park and more

580 Shares



TSA finds record 3,391 guns at
checkpoints in 2016

143 Shares



JetBlue flash sale drops many
routes below \$100 round trip





Master Planning Process



Questions?