Special Event Application

2/7/2024
Standard
28-SE-2024

Event Information

Event Name	CANAL CONVERGENCE | REFLECTIONS
Event Location	7124 E STETSON DR
Event URL	CANALCONVERGENCE.COM
Event Description	CANAL CONVERGENCE IS AN ANNUAL, FREE EVENT THAT CELEBRATES THE VIBRANT ARTS AND CULTURE COMMUNITY. EACH CANAL CONVERGENCE, SINCE THE FIRST OFFICIAL EVENT IN 2012, HAS FEATURED LARGE-SCALE PUBLIC ART INSTALLATIONS, CREATED BY LOCAL, NATIONAL, AND INTERNATIONAL ARTISTS. IN ADDITION TO THE ARTWORKS, THE EVENT INCLUDES AN ARRAY OF EDUCATIONAL PROGRAMMING, FAMILY-ORIENTED ACTIVITIES, ART-MAKING WORKSHOPS, AND MORE. CANAL CONVERGENCE ALSO OFFERS A BROAD SELECTION OF LIVE MUSIC, SPOKEN WORD, AND DANCE PERFORMANCES AND A BEER, WINE, FOOD TRUCKS, AND FOOD GARDEN. THE FEATURED THEME OF THIS YEAR'S EVENT, NOV. 8-17, 2024, IS REFLECTIONS.

Event Dates

Event Dates (10)

Start Date	End Date	Participant Attendance	Other Attendance
FRI 11/8/2024 6:00 PM	FRI 11/8/2024 10:00 PM	6000	35
SAT 11/9/2024 6:00 PM	SAT 11/9/2024 10:00 PM	6000	35
SUN 11/10/2024 6:00 PM	SUN 11/10/2024 9:00 PM	5000	35
MON 11/11/2024 6:00 PM	MON 11/11/2024 9:00 PM	5000	35
TUE 11/12/2024 6:00 PM	TUE 11/12/2024 9:00 PM	5000	35
WED 11/13/2024 6:00 PM	WED 11/13/2024 9:00 PM	5000	35
THU 11/14/2024 6:00 PM	THU 11/14/2024 9:00 PM	5000	35
FRI 11/15/2024 6:00 PM	FRI 11/15/2024 10:00 PM	8000	35
SAT 11/16/2024 6:00 PM	SAT 11/16/2024 10:00 PM	8000	35
SUN 11/17/2024 6:00 PM	SUN 11/17/2024 9:00 PM	5000	35

Setup Date	FRI 10/25/2024 8:00 AM - 10:00 PM
Teardown Date	MON 11/18/2024 8:00 AM - 07:00 PM

Applicant Information

Applicant	SCOTTSDALE ARTS		
Applicant Address	7380 E 2ND ST		
Applicant City	SCOTTSDALE, AZ 85251		
Applicant Name	JENNIFER GILL		
Title	DEPUTY DIRECTOR FOR CANAL CONVERGENCE		
Phone	(480) 874-4650	Email	JENNIFERG@SCOTTSDALEARTS.ORG
On-Site Contact	JENNIFER GILL		
Title	DEPUTY DIRECTOR FOR CANAL CONVERGENCE		
Phone	(480) 874-4650	Email	JENNIFERG@SCOTTSDALEARTS.ORG

Special Event Application

Applicant Experience THIS IS A CITY-SUPPORTED EVENT, AND IS ON ITS 11TH YEAR.

Prior Events

Has this event been produced before?	YES	
Is this an annual event?	YES	Previous Years : 11
Are there any changes from previous years?	YES	WE WILL BE CLOSING THE ROUNDABOUT FOR EVENT INSTALLATION, THE EVENT, AND THE EVENT DE-INSTALLATION FROM NOVEMBER 4 UNTIL APPROXIMATELY NOVEMBER 20. THIS CLOSURE SUPPORTS THE SAFETY OF THE FESTIVAL.

Event Elements

Elements	CIVIC, CULTURAL, EDUCATIONAL, ENTERTAINMENT, RECREATIONAL
Description	CANAL CONVERGENCE IS AN ANNUAL FREE EVENT THAT FEATURES LARGE-SCALE PUBLIC ART INSTALLATIONS, CREATED BY LOCAL, NATIONAL, AND INTERNATIONAL ARTISTS. IN ADDITION TO THE ARTWORKS, THE EVENT INCLUDES AN ARRAY OF EDUCATIONAL PROGRAMMING, FAMILY-ORIENTED ACTIVITIES, ART-MAKING WORKSHOPS, AND MORE. CANAL CONVERGENCE ALSO OFFERS A BROAD SELECTION OF LIVE MUSIC, SPOKEN WORD, AND DANCE PERFORMANCES AND A BEER, WINE, AND FOOD GARDEN.

Public Property Criteria

Are there any cross promotions or collaborations with local businesses to encourage sales or visibility? NO

CANAL CONVERGENCE WORKS WITH MANY LOCAL BUSINESSES THROUGH VARIOUS SPONSORSHIP OR PARTNERSHIP PROGRAMS THAT PROMOTE SALES AND VISIBILITY FOR THOSE BUSINESSES. WHILE THOSE HAVE YET TO BE CONFIRMED FOR 2024, WE WILL MOVE FORWARD WITH SIMILAR INITIATIVES.

Explain any anticipated regional, national, or international attendance.

WE HOST 8-10 NATIONAL AND INTERNATIONAL ARTISTS, WORK WITH LARGE PUBLIC ART NETWORKS TO MARKET THIS DESTINATION EVENT.

Is Scottsdale promoted in the special event marketing? YES

THIS IS THE CITY'S SIGNATURE DESTINATION EVENT.

Explain how the community benefits from the event from a civic or cultural perspective.

THIS EVENT IS AN INTEGRAL PART OF OUR ARTS COMMUNITY AND IS AN INTERNATIONAL AND NATIONAL PUBLIC ART DESTINATION EVENT.

Does your event require a paid fee for participants and/or spectators? NO

Event Equipment

Stages	YES	QTY: 1	Tables, Chairs, Furniture	YES	
Generators	YES	KW SIZE: 56 QTY: 6	Inflatables	NO	
Portable Bars	YES	QTY: 4	Amplified Sound	YES	
Speakers	YES	QTY: 5+	Temporary Restrooms	YES	QTY: 20
Fencing	YES	HEIGHT: 4 TYPE: BIKE	BBQ Grills or Propane Use	NO	
Lighting	YES		Tents/Canopies	YES	
			10' x 10' QTY: 25	10' x 20' QTY: 2	
			20' x 20' QTY: 1		

Special Event Application

Vendor Sales

Retail Merchandise	YES	QTY: 1	Food And Non-Alcoholic Beverages	YES	QTY: 1
Food Trucks	YES	QTY: 6	Alcohol	YES	QTY: 1
Services	NO		APPLICATION FOR : SPECIAL EVENT LIQUOR LICENSE ORGANIZATION NAME : SCOTTSDALE ARTS		

Signage Plan

On-Site Signs? YES QTY: 10 TYPE: PORTABLE (A-FRAME- SITS ON TOP OF GROUND)

Off-Premise Signs? NO

Signage Plan Description:

8 TOWER SIGNS, 30 HEAVY DUTY SIGNS, MULTIPLE BANNERS, ETC. ADDITIONAL INFO TBD.

Parking Plan

City parking lot	NO	City parking garage	YES
On-street parking	NO	On-site parking	NO
Off-site parking	NO	Shuttle service from off-site parking areas	NO
Valet service	NO	Rider Provider	NO

Parking Plan Description

WE ONLY ADVERTISE FREE AND OPEN TO THE PUBLIC CITY PARKING.

Street Use

Street or Alley Use

Street Closure : YES
Number of Lanes : 1
Direction : N
Street Name : ROUNDABOUT
Closure Dates : 11/4/2024 8:00:00 AM - 11/20/2024 8:00:00 PM

Public Parking Use

Parking Closure : YES
Parking Name : 700 E VIA SOLERI DRIVE/NORDSTROM PARKING GARAGE
Closure Dates : 11/8/2024 8:00:00 AM - 11/17/2024 7:00:00 PM

Sidewalk Use

Sidewalk Closure : NO

Barricade Company

Entertainment - Amplification/Sound Plan

Entertainment

LIVE BAND, PRE-RECORDED MUSIC, DJ, SPEAKER/ANNOUNCER, OTHER PERFORMER

Sound Monitoring

Name : JENNIFER GILL
Company : SCOTTSDALE ARTS
Phone Number : (480) 874-4650

Time and type of outside sound and sound check times

ALL MUSIC/ENTERTAINMENT IS DURING THE STATED EVENT HOURS, WITH POSSIBLE SOUND CHECKS DURING EVENT SET-UP DATE

Plan for sound monitoring, containment, and mitigation

WE WILL BE WORKING HAND IN HAND WITH SCOTTSDALE POLICE DEPARTMENT (WHO ARE ON SITE) TO MANAGE ALL NOISE.

Police/Security

Security Personnel

Inhouse Security	NO	
Hired Security	YES	Estimated Number : 35 Company Name : TBD Contact : TBD Phone : (000) 000-0000
Off Duty Police	YES	Estimated Number : 4 Scottsdale Police : YES Other Agency : NO

Scottsdale Fire Department and Medical Standby Services

Fire Department Permit Required YES

Medical Standby YES Estimated Number : 2
Contact : SCOTTSDALE FIRE DEPARTMENT

Fire Apparatus/Personnel Standby Required NO

Insurance

Insurance: Event activities on City/public property must be covered by insurance that protects the event sponsor/applicant and the City of Scottsdale. Various types and levels of liability insurance are required depending on the event. The required coverage and limits will be at the discretion of the Risk Management Division depending on the size and scope of the event. It is recommended that you submit your application and receive a determination on coverage and amounts before purchasing insurance coverage. Please refer to the Special Events Users Guide for more detailed information.

The following is a general guideline of the minimum limits that will be required:

Commercial General Liability Insurance coverage is required for all events with minimum limits of $1,000,000 Each Occurrence, $2,000,000 Products & Completed Operations Aggregates, $2,000,000 General Aggregate. Liquor Liability Insurance of $1,000,000 to $5,000,000 Per Occurrence is required for any event where liquor is being served.

All Insurance must endorse the City of Scottsdale as an Additional Insured. A separate insurance addendum with additional insurance requirements may be added to this application and become part of this contract.

I have a race event and have submitted a copy of the participant waiver that includes waiving liability against the city of Scottsdale and holding the city of Scottsdale harmless? NO

Special Event Application

I have included a copy of the insurance certificate showing appropriate limits and coverages as required and naming City of Scottsdale as additional insured? NO

Application Authorization

WARRANTY: Applicant warrants that the information provided in this application is true and accurate to the best of Applicant's knowledge and belief.

INDEMNIFICATION: To the fullest extent allowed by law, the Applicant agrees to defend, indemnify and hold harmless the City, its officers, officials, representatives, agents, employees and volunteers from and against all allegations, demands, proceedings, suits, actions, claims, damages, losses, expenses, including but not limited to, attorney fees, court costs, the cost of appellate proceedings, and all claim adjusting and handling expenses, arising from or related to any acts or omissions of the permit holder or its agents, contractors and subcontractors related to the Special Event including any claims, damages, or losses resulting from the City's or its employees' or agents' negligence.

The Applicant's signature below authorizes a City representative to inspect a special event on City or private property at any time, including setup.

AUTHORITY: For special events on public property, the Applicant warrants:

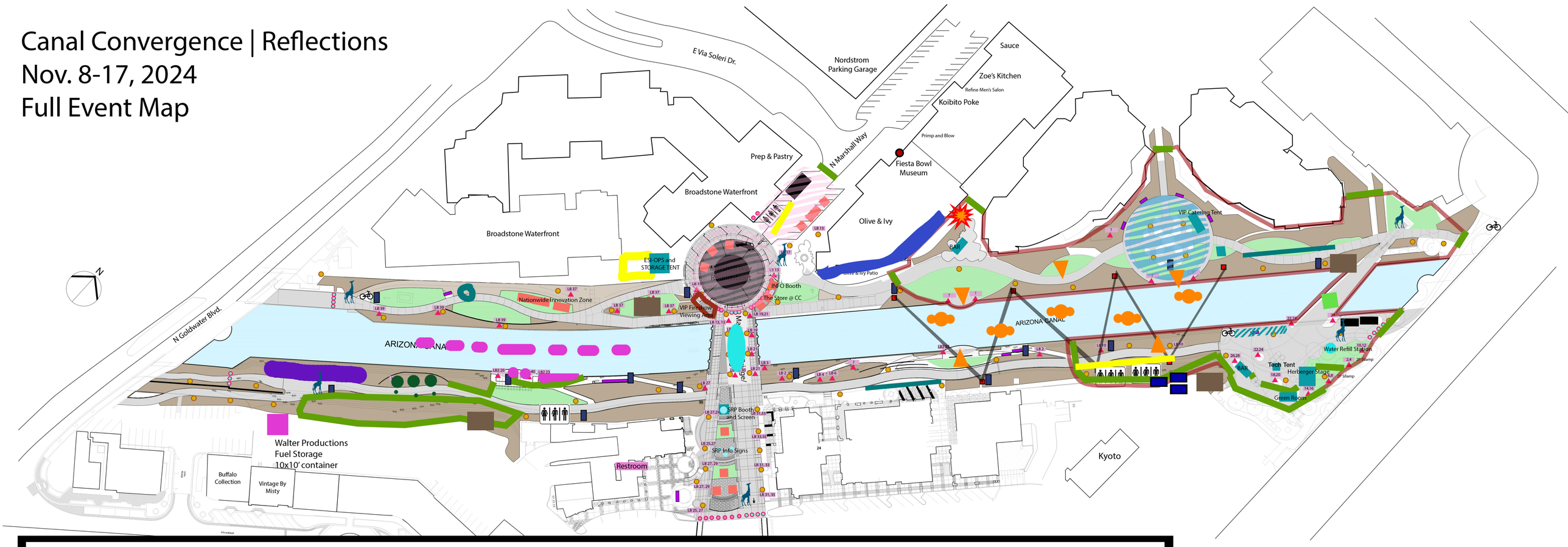
I am the permittee or an authorized agent of the permittee with authority to legally bind the permittee (an agent may sign only if the event is on private property) and agree to the conditions of this permit.

☑ Signature of Applicant - must be the same person listed on application.

Printed Name JENNIFER GILL Date 2/7/2024

Title of Applicant DEPUTY DIRECTOR OF CANAL CONVERGENCE

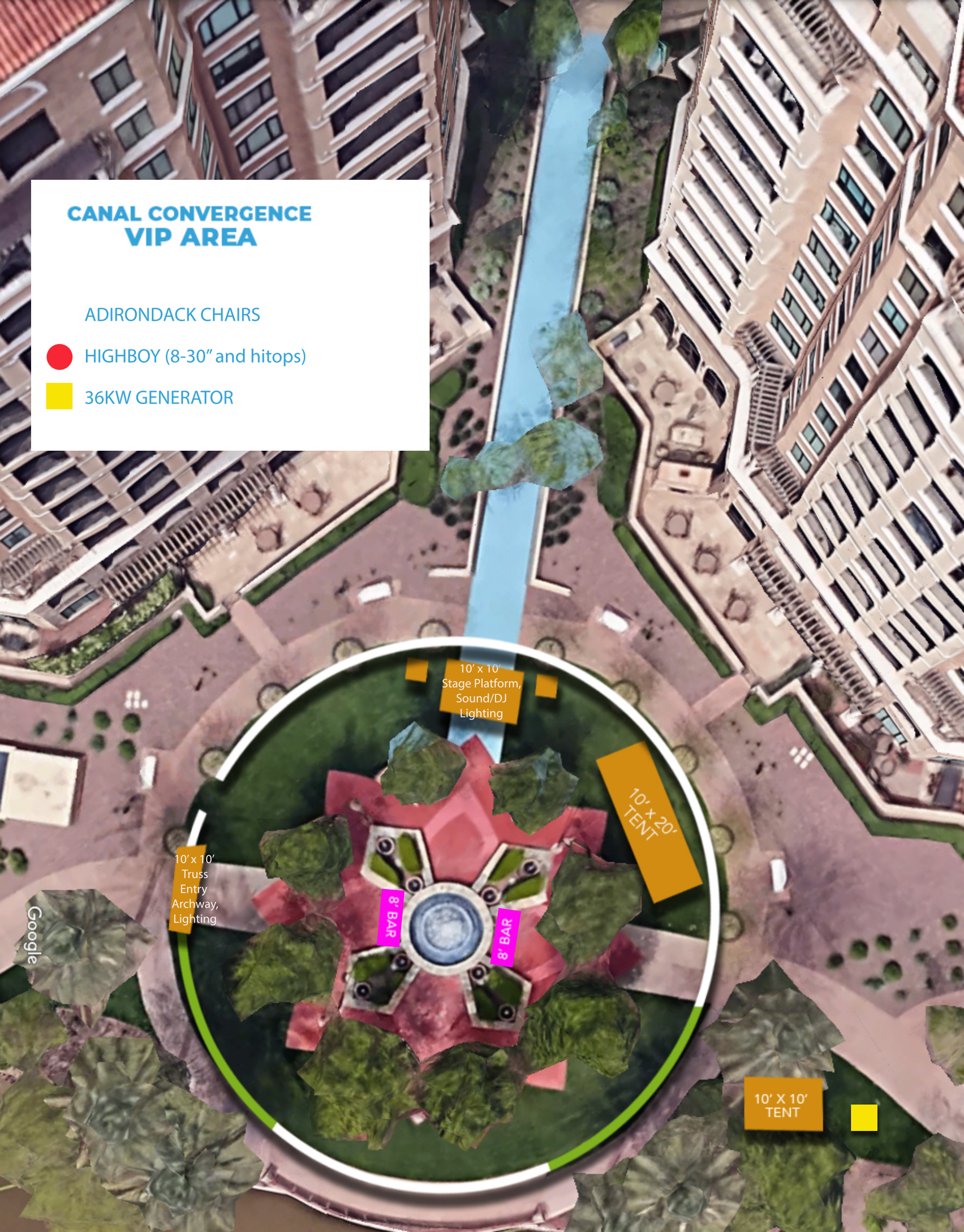
Canal Convergence | Reflections
Nov. 8-17, 2024
Full Event Map

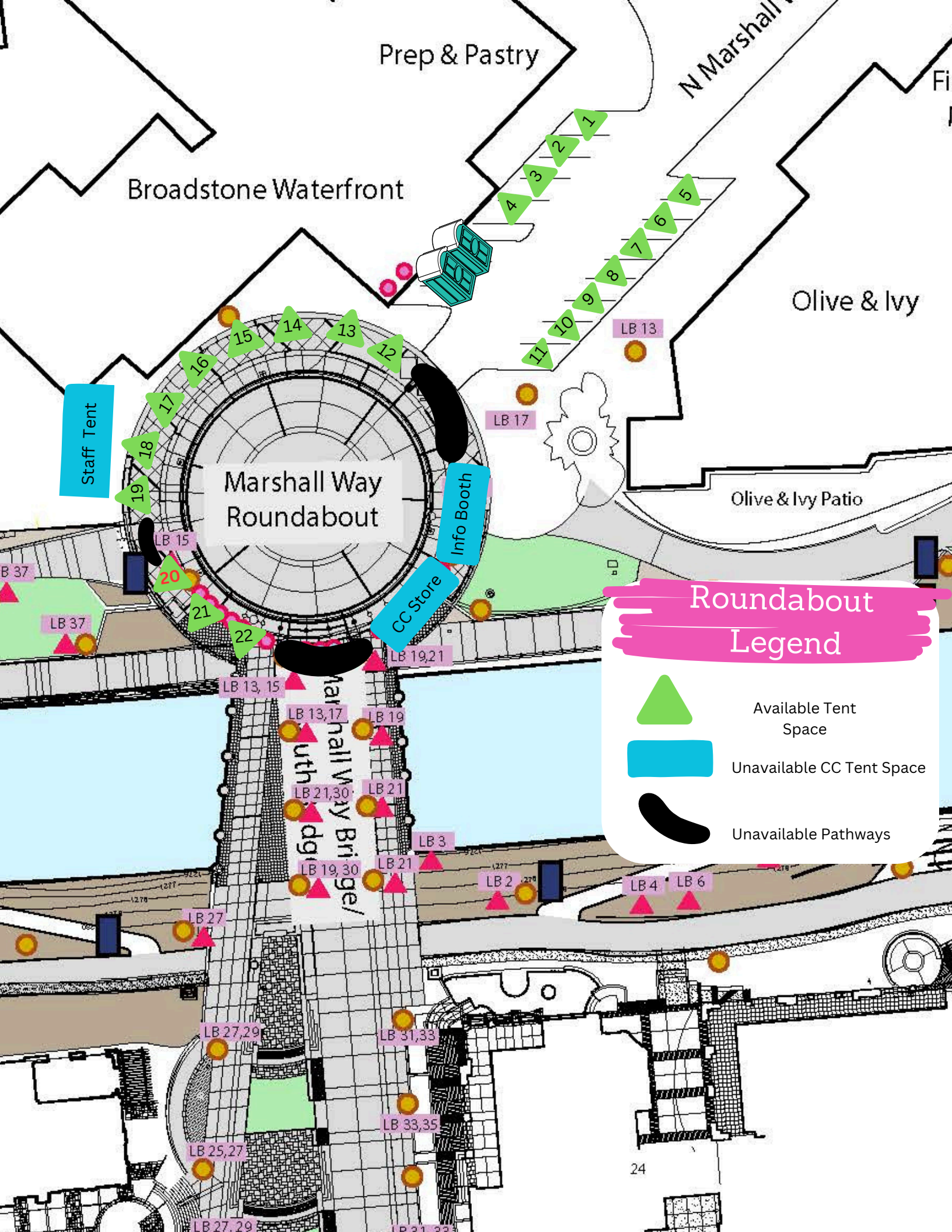


Map Key

- EQUBE by B!G ART
- Fireflection by Walter Productions
- Gaiascope by Mindbender Studio
- The PORTAL by B!G Art
- Molecules by The Urban Conga
- Molecules Interactive Zones
- The ARRAY by B!G ART
- Phase Change by post-
- Drone Take-Off and Landing Location (Nov. 14-16)
- Gold Pressed by Kenaim Al-Shatti
- Portable Toliets
- Chainlink Fence
- PED Fence
- Food Trucks
- Liquor Perimeter
- Scottsdale Arts Roundabout
- Lounge
- Generators
- Tower Signs
- CC24 Staff/Volunteer Check-in and Breakroom
- OWBS Footprint
  Fri., Nov. 8 & Sat., Nov. 9 ONLY
- Trash & Recycle Bins Pair Placement
- Staff/Volunteer ONLY Fiesta Bowl Entry and Exit
- Dumpsters

- Light Poles
- Permanent Rigging Poles
- Benches
- Bike Rack
- Trash Cans
- Permanent Stantions
- Temporary Stantions
- Electricity


CANAL CONVERGENCE
VIP AREA
ADIRONDACK CHAIRS
HIGHBOY (8-30" and hitops)
36KW GENERATOR
10' x 10' Stage Platform, Sound/DJ Lighting
10' x 20' TENT
10' x 10' Truss Entry Archway, Lighting
8' BAR
8' BAR
10' X 10' TENT
Google


Prep & Pastry
N Marshall W
Broadstone Waterfront
Olive & Ivy
Olive & Ivy Patio
Staff Tent
Marshall Way Roundabout
Info Booth
CC Store
LB 13
LB 17
LB 15
LB 37
LB 19,21
LB 13, 15
LB 13,17
LB 19
LB 21,30
LB 21
LB 3
LB 19, 30
LB 2
LB 4
LB 6
LB 27
LB 27,29
LB 31,33
LB 33,35
LB 25,27
LB 27, 29
24
Roundabout Legend
Available Tent Space
Unavailable CC Tent Space
Unavailable Pathways

Measure Tool

Feet

Measurement Result

54.7 Feet

5 tents, reduced to 4 on map

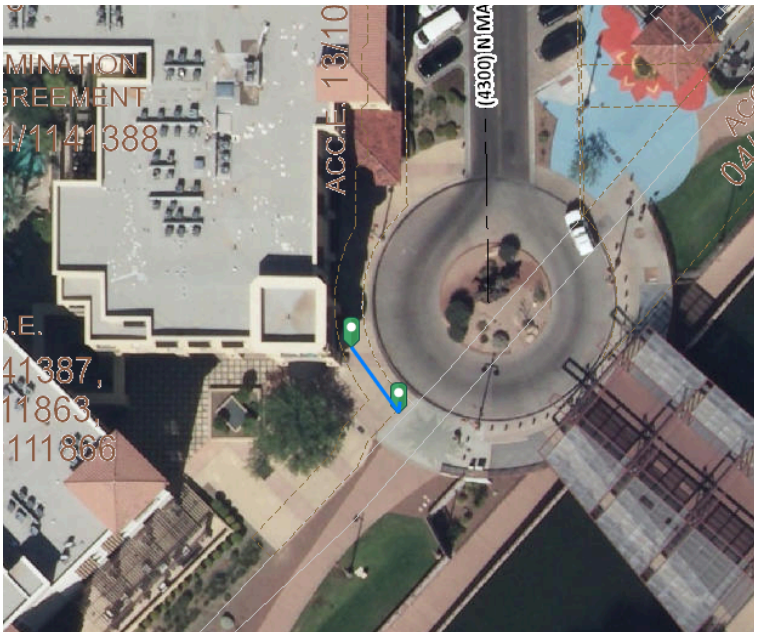
Measure Tool

Feet

Measurement Result

99.9 Feet

9 tents, reduced to 7 on map, per CoS rules



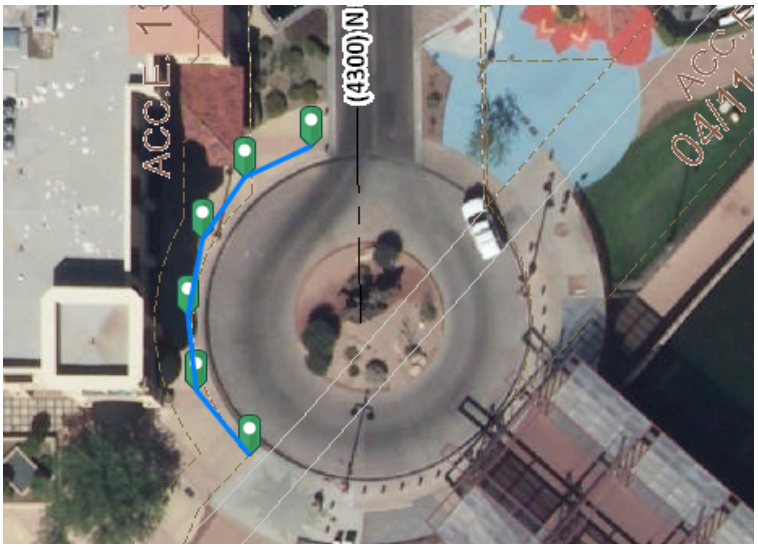
Measure Tool

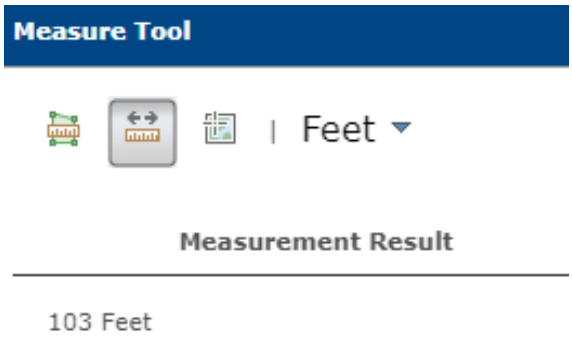
Feet

Measurement Result

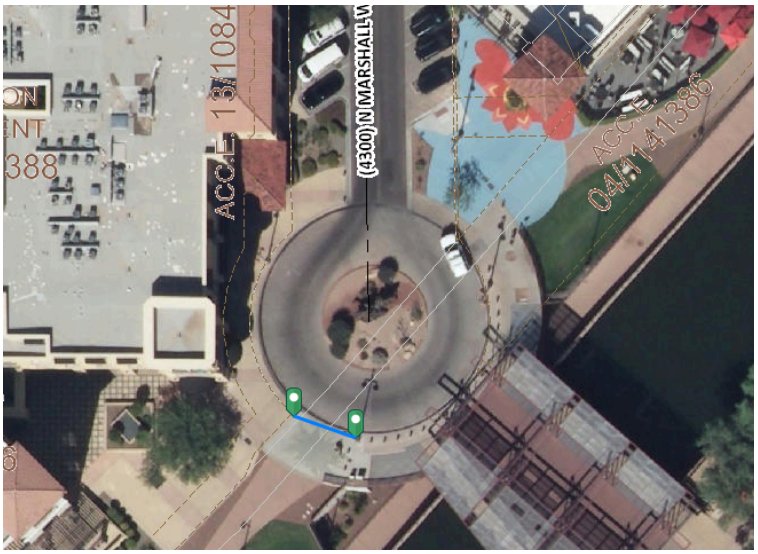
28.9 Feet

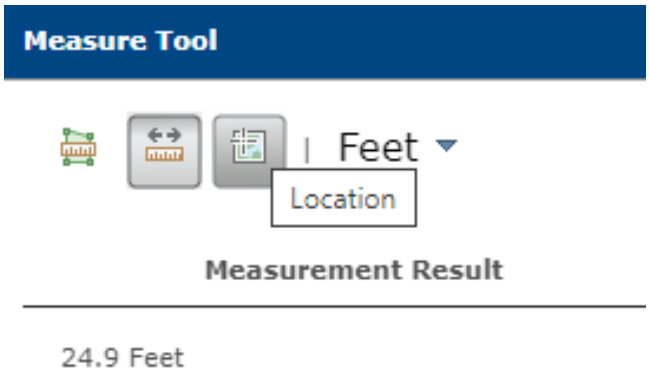
2 tents, in front of staff tent



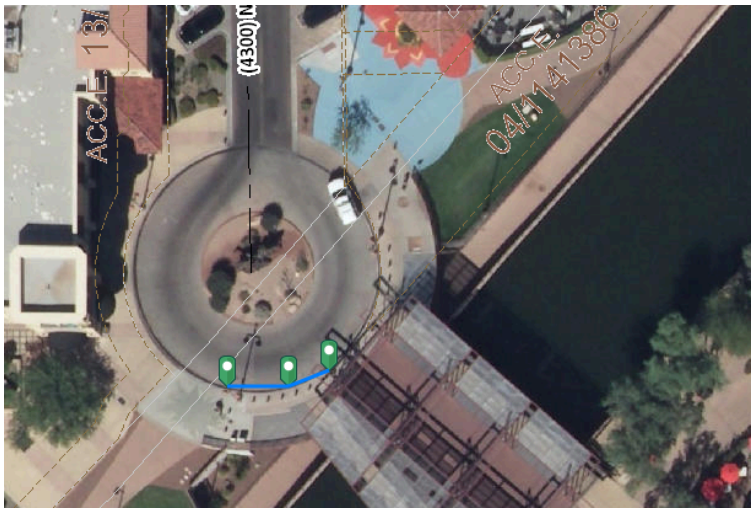


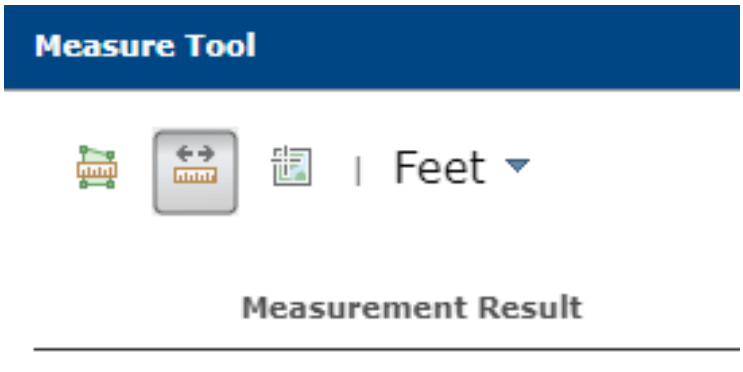
7 tents, need 10 foot separation per CoS





10 foot separation





2-3 tents, need to measure more accurately

Canal Convergence | Reflections

November 8-17, 2024

Dates:

Oct. 28–Nov. 7: Art Installation

Nov. 8-17: Canal Convergence | Reflections

Nov. 18-22: Artwork Deinstallation

Event Hours: November 8–17, 2024, Fridays & Saturdays: 6-10 p.m., Sundays & Mon.-Thurs: 6-9 p.m.

Art: Temporary interactive artworks will be featured in, around, and above Scottsdale's Arizona Canal. Interactivity, nighttime presence, and artworks that focus on the featured theme—Reflections.

- Featured Suspended Artwork: Molecules by The Urban Conga, Brooklyn, NY.
- Walter Productions will return with a nightly fire performance-based artwork titled Fireflection. This artwork will include a new "fan" flame effect never seen at Canal Convergence before!
- Drone Artwork: Open Sky Pro (drone operators) and Nicolas Lavella of Immerge Interactive (artist).
- Canal Convergence 2024 Artworks as of 9.18.24
    - Artworks: 7 (8 including the Drone Art)

Experiences and Activities Overview:

- Interactive, passive, and performative art installations throughout the Scottsdale Waterfront
- Drone performances directly over the water.
- Nightly fire shows on the canal between Marshall Way Bridge and Goldwater Bridge:
    - 6:30, 7:30, and 8:30 p.m. EVERY NIGHT
- Canal Convergence Mini Film Festival:
    - Two short film screenings, Nov.15–16, 3-7 p.m., at Harkins Camelview in the Scottsdale Fashion Square, with a reception event on Nov. 16 at Canal Convergence/Fiesta Bowl.
    - Ticketed event, prices:
        - Early Bird Single-Day Friday Pass: $60
        - Early Bird Single-Day Saturday Pass: $60
        - Early Bird 2-day Pass: $110
        - Single-Day Friday Pass: $80
        - Single-Day Saturday Pass: $80
        - 2-day Pass: $140

        - VIP Add-On: $25
- Nationwide Innovation Zone(s): Drop-in and ticketed workshops will be held throughout the 10 days at the enlarged Innovation Zone,
- Herberger Stage: Live music and performances every night.
- CC Public Art Tours every night @ 5:30 p.m.
- Scottsdale Arts Roundabout + Stetson Plaza:
    - General Information, Food & Drink, Shopping @ CC Store, Community Partners, Sponsor Booths, SRP Information Booth
- Beer + Wine Garden:
    - Beer, red and white wine, canned cocktails, water, and soda, and at least one food vendor all 10 days

<u>Nationwide Innovation Zone</u>

- The innovation zone will feature ticketed workshops and nightly free workshops led by local arts and environmental organizations and nonprofits.
- Illuminating the Future: ASU Fashion Show @ The Portal on Monday, November 11 at 7 pm. The fashion show is in addition to the ASU garments on view all 10 days of Canal.

<u>Scottsdale Arts Roundabout + Stetson Plaza:</u>

- Roundabout, Marshall Way up to the stop sign at Via Soleri, and encompassed parking spaces will be closed to car traffic for all 10 days of the event, including November 7.
- Roundabout/Marshall Way (street and parking spots) area:
    - Information Booth
    - The Store @ Canal Convergence
    - Community Partner Booths with drop-in activities
    - Partner Vendor Booths
    - Food trucks/Food Vendor Tents/Carts all 10 days
    - Port-a-potties (enclosed with fencing)
- CC Public Art Tours
    - TOURS sign next to the Info Booth will identify this year's meeting place for all the tours
        - Two of these tours will be with Spanish and ASL translators accompanying the SA tour guide, dates TBD.

<u>Additional Programming</u>:

Saturday, November 9

- Partnership with The Women's Collective Night Run Race: Goldwater Bridge-AZ Falls and back.
    - Artist Brooke Einbender will "officially" start the race for the event.

November 9–10

- Live Dance performances
    - Nicole Olson|Movement Chaos:
        - Sat. Nov. 9, at the Marshall Way Bridge, 8 p.m.
    - Nicole Olson and SCC Student Group
        - Sun. Nov. 10-Location(s) and time(s) TBD

November 15–16

- Canal Convergence Mini Film Festival | Reflections
    - Different curated short films each night, 3-7 p.m. at Harkins Camelview
    - "Best On-Theme Short Film" Award
    - Saturday, November 16, Film Festival Reception at the Fiesta Bowl/CC.
    - Tickets go on sale Oct. 2.

Soleri Plaza:

- One Water Brewing Showcase: Fri. Nov. 8-Sat., Nov. 9
    - Scottsdale Water and Conservation will be present
    - 4 Breweries on one night, the bar will sell tickets for OWBS tasting with commemorative tasting cups, and SA beer and wine offerings
    - No voting this year.
- Herberger Stage
    - Live Music and Performances nightly
- Food trucks/vendors all 10 days.
- Bar: Open all 10 days, selling beer, red and white wine, water and soda, canned cocktails, and water and soda.

BillieJo Herberger's Lounge:

- VIP Events (sponsor nights and ticketed events)

CITY OF SCOTTSDALE

EQUIPMENT LEGEND

- Sign Symbol
- Vertical Panel
- Type 1
- Type 3
- "A" Lights
- "B" Lights
- "C" Lights
- Arrow Panel
- High Level

City of Scottsdale Approval

Field Engineering

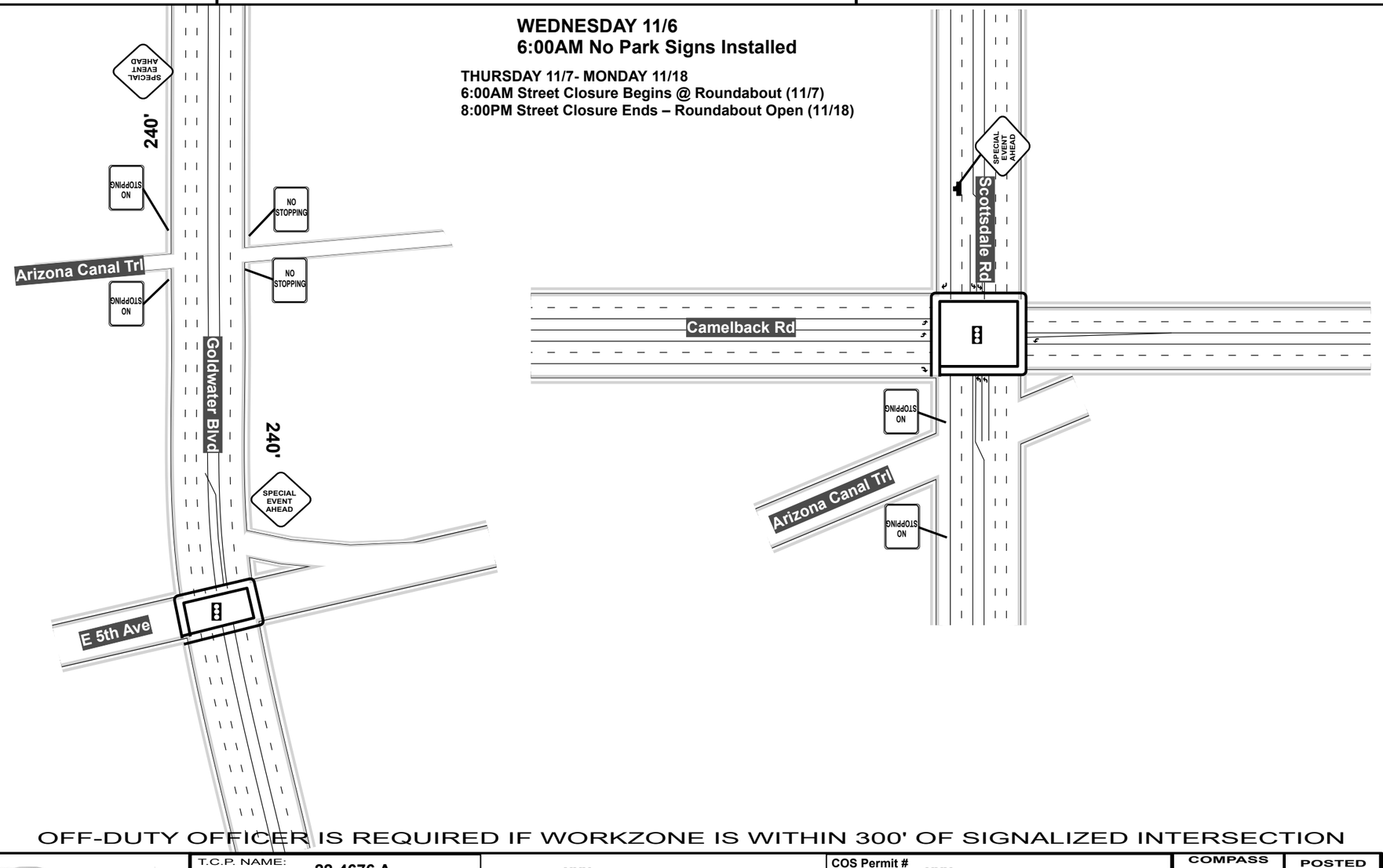
_____

Traffic Engineering

_____

WEDNESDAY 11/6
6:00AM No Park Signs Installed

THURSDAY 11/7- MONDAY 11/18
6:00AM Street Closure Begins @ Roundabout (11/7)
8:00PM Street Closure Ends – Roundabout Open (11/18)



OFF-DUTY OFFICER IS REQUIRED IF WORKZONE IS WITHIN 300' OF SIGNALIZED INTERSECTION

Southwest BARRICADES

DRAWN BY Gibran Plascencia
Phone:602-788-2222
Email:tcp@swbarricades.com

ENTERTAINMENT SOLUTIONS Inc.

T.C.P. NAME: 22-4676 A	xxx	COS Permit # xxx	COMPASS: N W E S
LOCATION: Via Soleri Dr & Marshall Way		Notes:	POSTED SPEED: SPEED LIMIT 35
START DATE: 11/7/2024	END DATE: 11/18/2024		
WORK HOURS: ☐ 8:30am-3:30pm Mon-Fri ☐ 10:00pm-5:00am Sun-Thur ☐ 24 HR ☐ Other:_____			
CONTRACTOR: Entertainment Solution	Contact person: Kevin Koziol		
Contact Phone: 602-620-3351	Contact Email: kevin@solutionsaz.com		

CITY OF SCOTTSDALE

EQUIPMENT LEGEND

Sign Symbol
Vertical Panel
Type 1
Type 3
"A" Lights
"B" Lights
"C" Lights
Arrow Panel
High Level

City of Scottsdale Approval

Field Engineering

Traffic Engineering

WEDNESDAY 11/6
6:00AM No Park Signs Installed

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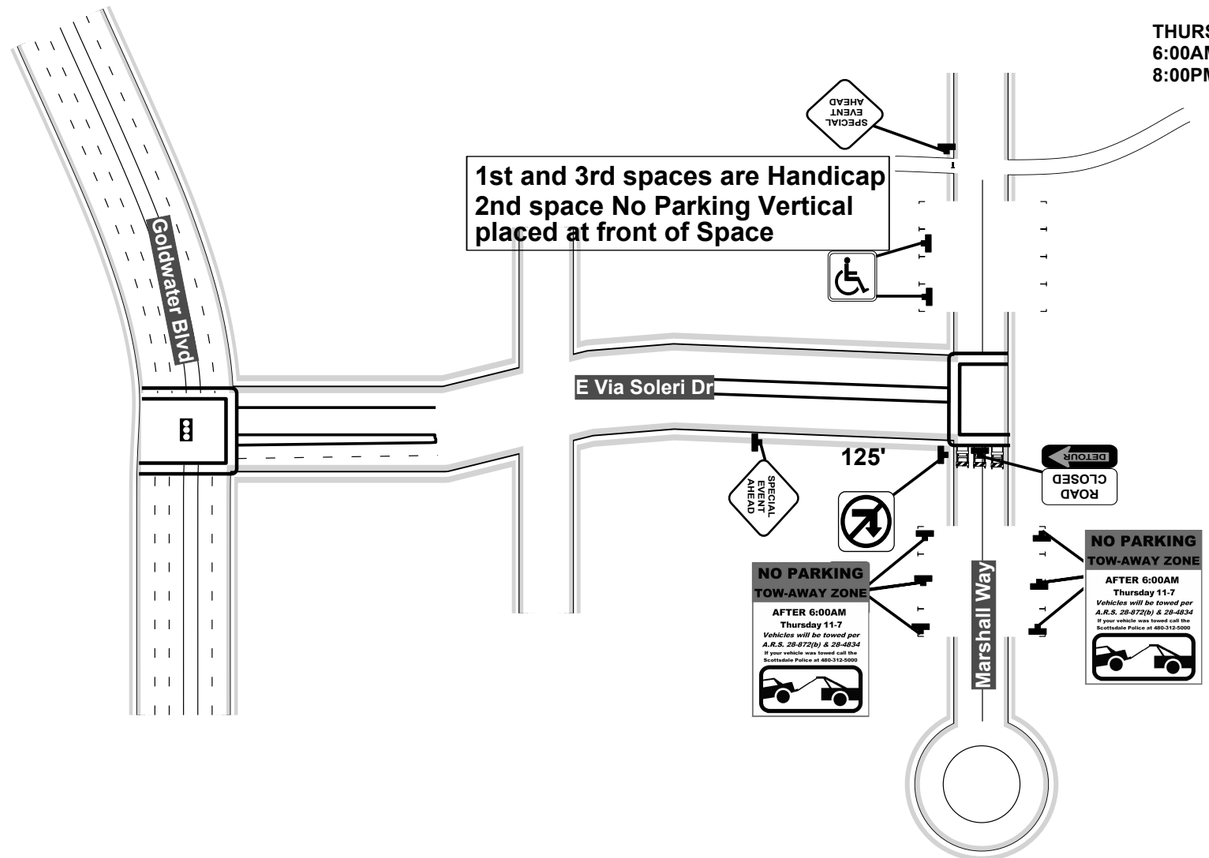

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ENTERTAINMENT SOLUTIONS Inc.

T.C.P. NAME: 22-4676 B | XXX | COS Permit # XXX

LOCATION: Via Soleri Dr & Marshall Way

START DATE: 11/7/2024 | END DATE: 11/18/2024

WORK HOURS:
- ☐ 8:30am-3:30pm Mon-Fri
- ☐ 10:00pm-5:00am Sun-Thur
- ☐ 24 HR
- ☐ Other:_____

CONTRACTOR: Entertainment Solution | Contact person: Kevin Koziol

Contact Phone: 602-620-3351 | Contact Email: kevin@solutionsaz.com

Notes:

COMPASS: N W E S

POSTED SPEED: SPEED LIMIT 35

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/5/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Lovitt & Touché A Marsh and McLennan Agency, LLC
8605 E. Raintree Drive, Suite 200
Scottsdale AZ 85260

CONTACT NAME: Linda Perez
PHONE (A/C, No, Ext): | **FAX (A/C, No):**
E-MAIL ADDRESS: Linda.Perez@MarshMMA.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Philadelphia Indemnity Insurance Co.	18058
INSURER B : CopperPoint National Insurance Company	13929
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED SCOTCUL-C1
Scottsdale Arts
Scottsdale Cultural Council
7380 E. 2nd St.
Scottsdale AZ 85251

COVERAGES **CERTIFICATE NUMBER:** 1607325476 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [ ] PRO-JECT [X] LOC OTHER:	Y	Y	PHPK2566860008	7/1/2024	7/1/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 1,000,000 $ 20,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY [ ] SCHEDULED AUTOS X HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY	Y	Y	PHPK2566860008	7/1/2024	7/1/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
A	X **UMBRELLA LIAB** [ ] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE DED [X] RETENTION $ 10,000			PHUB868473008	7/1/2024	7/1/2025	EACH OCCURRENCE AGGREGATE 	$ 5,000,000 $ 5,000,000 $
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	1019573	7/1/2024	7/1/2025	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
A	Liquor Liability			PHPK2566860008	7/1/2024	7/1/2025	Each cause limit Aggregate Limit	1,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
The above-indicated Additional Insured and Waiver of Subrogation (WOS) are provided with respects to General Liability when required in a written and executed contract. Such coverage afforded by these policies for the benefit of the additional insured(s) is primary and any other coverage maintained by such additional insured(s) shall be non-contributory when required in a written and executed contract. Subject to all policy terms, conditions and exclusions

Sexual Abuse Molestation coverage included per Policy #PHPK2566860008: Occurrence Form- Limits $1,000,000 Aggregate/ $1,000,000 Each Abusive Conduct/$0 Deductible

Supporting endorsements attached include: CG2026 04 13; CG2001 04 13; CG2404 05 09
See Attached...

CERTIFICATE HOLDER

City of Scottsdale
9191 E San Salvador Dr
Scottsdale AZ 85258

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Lisa A. LaVoie

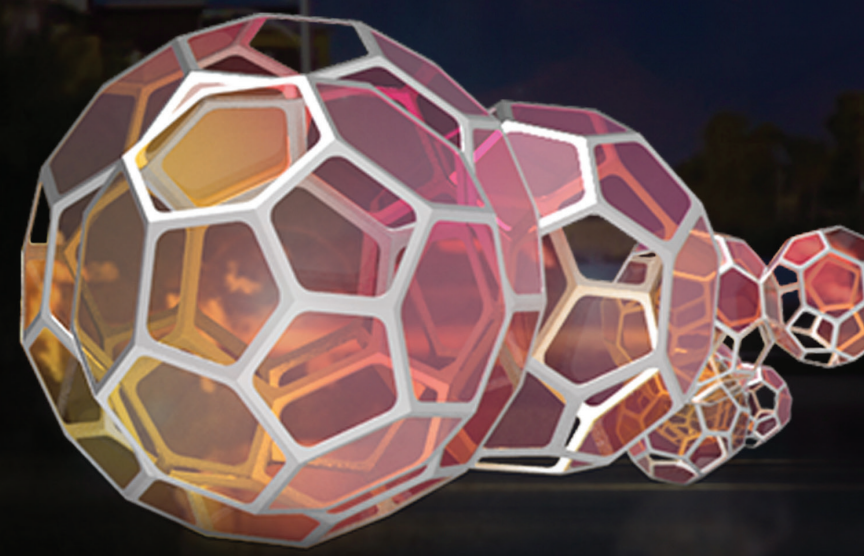
Scottsdale Arts'

CANAL CONVERGENCE

Reflections

EVENT PROGRAM

November 8–17, 2024
Scottsdale Waterfront



arts scottsdale
canal convergence

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General Information

FREE ADMISSION

DATES:
Friday, Nov. 8, through Sunday, Nov. 17

HOURS:
Fridays and Saturdays: 6–10 p.m.
Sundays and Monday–Thursday: 6–9 p.m.

LOCATION:
The Scottsdale Waterfront, in and above the Arizona Canal and along the pedestrian pathways and bridges, between Scottsdale Road and Goldwater Boulevard in Scottsdale, Arizona.

@ScottsdaleArts

@ScottsdaleArts #ScottsdaleArts
#CanalConvergence

DONATE:
sarts.co/Donate

BELONG:
OneMembership.ScottsdaleArts.org

CONTACT US:
CanalConvergence.com | 480-499-8587

Cover: *Molecules* rendering by The Urban Conga, original commission for Canal Convergence 2024.

DICE by Iregular, Canal Convergence 2023. Photo: David Blakeman.

A Note From the Deputy Director

Welcome to Canal Convergence: a free, immersive, and interactive light-based public art event that takes place each November at the Scottsdale Waterfront. This year, we are delving into the world of reflections, both literal and psychological, and with Canal Convergence opening days after the 2024 presidential election, it will be a poignant time for all of us to pause, contemplate, and engage with artworks created to foster dialogue and introspection.

Canal Convergence offers unique opportunities for arts-focused engagements, where local, national, and international artists converge to create inspiring, interactive installations, artistic workshops and activities, vibrant music and dance performances, and more. And as you stroll down the waterfront paths, enjoying our annual synthesis of water, art, and light, you can grab a glass of wine, a beer, or a canned cocktail and a bite to eat from one of our food trucks. Whether you are enjoying one of Walter Productions' nightly fire shows (see page 3) or engaging with an artwork that "reflects" more than its surroundings, Canal Convergence has something for everyone, regardless of age, gender, or background. So, welcome and enjoy; interact responsibly and reflect respectfully.

Jennifer Gill,
Deputy Director for Canal Convergence

ARTWORK

The ARRAY courtesy of Big Art.

The ARRAY

Big Art (Calgary, Canada)

The ARRAY challenges the notion of introspective moments in front of a mirror by going beyond reflection of the "self" with more than 100 clips of engaging video content throughout the installation's mirrors.

The EQUBE. courtesy of Big Art.

The EQUBE

Big Art (Calgary, Canada)

The EQUBE effortlessly illustrates the multitude of ways in which the volume, pace, and nature of sound can be reflected through the radiant light of nearly 10,000 LEDs. An interactive console, adorned with arcade-style buttons, offers the viewer control over colors, patterns, and intensity of light generated by *The EQUBE*, creating a unique reflection of the surrounding world.

Fireflection Rendering, courtesy of Walter Productions.

Fireflection

Walter Productions (Phoenix, Arizona)

Walter Productions explores the interplay of light, sound, and motion—facilitated by reflection—through the fire-shooting flotilla *Fireflection*, featuring multiple mirrored geometric forms with flame heads and LEDs. *Fireflection* lights up the sky with dazzling fire and light performances set to music.

Fire Show Schedule: 6:30, 7:30, and 8:30 p.m. nightly

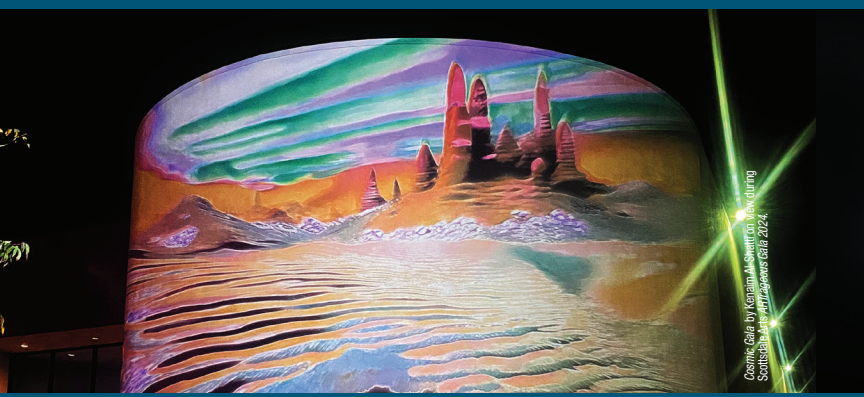
Gaiascope rendering, courtesy of Mindbender Studio.

Gaiascope

Mindbender Studio (Telluride, Colorado)

Named for the mother of all creation in Greek mythology, *Gaiascope* is a new type of kaleidoscope, whose fractal reflections are a reminder of humanity's universal bond to our planet and each other. When people gaze into the three suspended *Gaiascopes*, they are peering into 6-foot mirrored chambers that display video art of Arizona's natural wonders.

ARTWORK (CONT.)

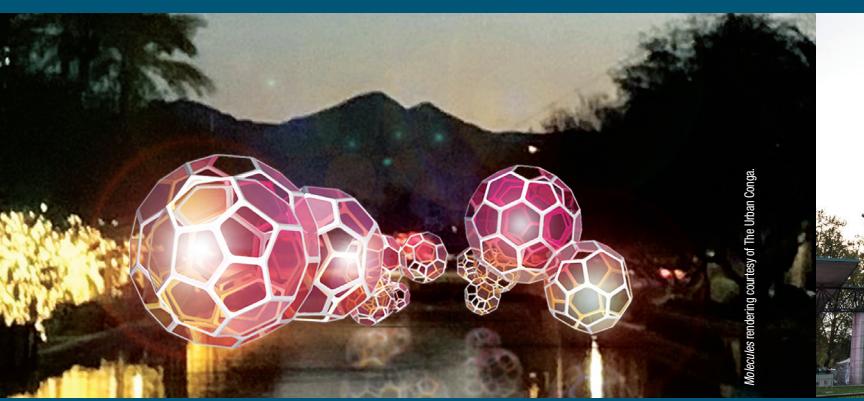


Cosmic Gaia by Kenaim Al-Shatti on view during Scottsdale Arts' *ArtPowers Gala 2024*.

Gold Pressed

Kenaim Al-Shatti (Phoenix, Arizona)

Gold Pressed transforms an architectural space into a radiant projection-mapped canvas. The artwork continually adapts over time, inviting viewers to engage with a dynamic visual story that shifts in surprising ways, fostering an atmosphere that encourages exploration.



Molecules rendering courtesy of The Urban Conga.

Molecules

The Urban Conga (New York City, New York)

Molecules is a series of broken-down water molecules rising from the Arizona Canal, using the physical reflection of light and sound to create an interactive, kaleidoscope-like experience. The lights in *Molecules* respond to sounds made by users at designated points adjacent to the work, creating an opportunity to spark a reaction within the molecules.

Phase Change, courtesy of post-.

Phase Change

post- (Ithaca, New York)

Inspired by Arizona's Four Peaks, *Phase Change* uses motion activation and diurnal cycles to represent the flow of water from mountain snowpack to the Salt River and eventually the Arizona Canal. During the day, two-way acrylic mirror faces create infinite reflections, while at night, lighting and colored interior mirrors turn the sculpture into a geode-like beacon.

The PORTAL, courtesy of Big Art.

The PORTAL

Big Art (Calgary, Canada)

The PORTAL explores natural human curiosity on a grand level and the allure of portals as gateways to other dimensions. Travelers navigate the towering 17-foot structure, uncovering hidden features through an interactive console, immersive video, and a custom soundscape that envelops participants and creates a captivating spectacle as they pass over the threshold on a transformative journey.

ARTWORK (CONT.)

Synthesis Performance Rendering, courtesy of Immerge Interactive.

Synthesis

Nicholas Lavella, Immerge Interactive (Philadelphia, Pennsylvania)

Synthesis is a kinetic light art installation, performed by drones and reflecting the emergence of order through dynamic movements. The performance unfolds in waves, progressing from disorder to symmetry.

Drone artwork performance: 8 p.m. Nov. 14–16

SPECIAL EVENTS

Scottsdale Professionals Convergence, Canal Convergence 2023. Photo: Matt Young.

Canal Convergence Opening Celebration

Saturday, Nov. 9, 6–9 p.m.

Tickets: $15 for Scottsdale Arts ONE Members*; $35 for non-members

The Billie Jo Herberger Lounge

Sip, savor, and sustain the arts. Raise a toast to Canal Convergence with an exclusive Opening Celebration in The Billie Jo Herberger Lounge! Capacity is limited, so reserve your spot today at CanalConvergence.com/events. Limit of one complimentary drink voucher with each event ticket.

Not a member? Become a Scottsdale Arts ONE Member today to save on your event tickets at OneMembership.ScottsdaleArts.org or scan the QR code.

*Limit two discounted tickets per membership household. Must be an active ONE member to take advantage of ticket offers.

Scottsdale Professionals Converge

presented by Randy Nussbaum and Sacks Tierney P.A.

Tuesday, Nov. 12, 6–8 p.m.

Tickets: $30 day-of; $20 advance

The Billie Jo Herberger Lounge

Converse and converge over the arts. Join NextGen@ Scottsdale Arts, Scottsdale Leadership, and Scottsdale Rising Young Professionals for an evening of art and networking. Reserve your spot today at CanalConvergence.com/events.

Not a NextGen member? Join NextGen today and enhance your professional and personal journey with the most unique young professional membership in the Valley. Email Sam Correa, membership and campaign manager, at SamC@ScottsdaleArts.org.

CANAL CONVERGENCE MINI FILM FESTIVAL

Friday and Saturday, Nov. 15–16, 3–7 p.m.

Two-day and single-day passes available with optional VIP add-on.

Harkins Theatres Camelview at Fashion Square 14

This mini-series will screen short films that explore the concept of physical and psychological reflections and address Canal Convergence's annual themes, including water + art + light, sustainability, and interactivity. We hope this experience will inspire self-reflection and dialogue within our audience.

For more information and to purchase your tickets, visit CanalConvergence.com or scan the QR code.

Film Fest VIP Experience

Saturday, Nov. 16, 7:30–9:30 p.m.

Fiesta Bowl Museum

Tickets for this event must be purchased in advance and is only open to film fest ticket holders.


HIGHLAND DR
Harkins THEATRES
Scottsdale Fashion Square
GOLDWATER BLVD
MARSHALL WAY
SCOTTSDALE RD
Fiesta Bowl Museum
VIA SOLERI DR
Canal Convergence
STETSON DR
6TH AVE
5TH AVE
CRAFTSMAN CT
GOLDWATER BLVD
MARSHALL WAY
SCOTTSDALE RD
INDIAN SCHOOL RD
1ST AVE
1ST AVE

Nationwide®

INNOVATION ZONE

Workshops at Canal Convergence 2023's Nationwide Innovation Zone. Photo: David Blakeman

Experience the art of reflection firsthand in the Nationwide Innovation Zone. Workshops led by exhibiting artists and local arts organizations encourage participants to reflect on their natural surroundings, the technology they use, and the clothes they wear.

Make Your Own Gaiascope!

Friday and Saturday, Nov. 8 and 9, 6:15–7:15 p.m.

Tickets: $10

Everlasting Elegance: Fall Wreath Workshop

Monday, Nov. 11, 6:15–7:45 p.m.

Tickets: $35

The First Dance with Flowers

Tuesday, Nov. 12, 6:15–7:45 p.m.

Tickets: $35

Ivy Hoop Topiary Workshop

Wednesday, Nov. 13, 6:15–7:15 p.m.

Tickets: $35

CREATE an Infinity Mirror with the AZ Science Center

Thursday, Nov. 14, 6:15–7:15 p.m.

Tickets: $10

For workshop details and to purchase tickets, visit CanalConvergence.com or scan the QR code. You can also refer to the schedule of events on pages 18 to 27 for a full listing of events by day.

SCOTTSDALE ARTS ROUNDABOUT

Get hands-on with the theme of Canal Convergence. Photo: Betty L Hum Photography

Check out our community partners through drop-in activities, ask any and all questions you have about Canal Convergence at the Information Booth, and shop for fun glow items at The Store @ Canal Convergence.

The Store @ Canal Convergence

Nov. 8–17, 6–10 p.m. Fridays and Saturdays, 6–9 p.m. Sunday through Thursday

Let us light up your night! Stop by The Store @ Canal Convergence during regular event hours and get your fun, light-up gear and special Canal Convergence-branded merch! Preview items in our online Canal Convergence collection and purchase them on the website or at our retail tent at the Scottsdale Waterfront during the event.

Community Partners

On-site during Canal Convergence hours.

Nov. 8–10

The Cosanti Foundation

Nov. 8–13

Scottsdale Artists League

Nov. 15–17

Arizona Veterans Mission Group

Greasepaint Youtheatre

Learn more at CanalConvergence.com or scan the QR code.

THINGS TO DO

SRP Tour, Canal Convergence 2023. Photo: David Blakeman

Canal Convergence Art Tour

Nightly, Nov. 8–17;
5:30–6:30 p.m.

Tickets: $5

Canal Convergence Information Booth, Marshall Way Bridge

Join us for a behind-the-scenes look at Canal Convergence, guided by Scottsdale Arts staff. This is a one-hour walking tour at sunset that will culminate at the Walter Productions fire show.

Canal Convergence Art Tour with Spanish Translation

Sunday, Nov. 10,
5:30–6:30 p.m.

Tickets: $5

Canal Convergence Art Tour with ASL Translation

Monday, Nov. 11,
5:30–6:30 p.m.

Tickets: $5

Salt River Project Canal History Tour

Fridays and Saturdays
Nov. 8, 9, 15, and 16;
5–6 p.m.

Tickets: Free

Canal Convergence Information Booth, Marshall Way Bridge

Have you ever wondered how we have access to water in the middle of the desert? To solve the mystery, take a walking tour with SRP to learn about the history and importance of the canal system to the Valley.

SRP®

Canal Convergence 2023. Photo: David Blakeman

The Women's Collective Night Run

Saturday, Nov. 9, 5:30 p.m.

Registration fee: $45
Day-of registration fee: $50

Rose Garden West Parking Lot, 6860 E. 5th Ave., Scottsdale, AZ 85251

Lace-up your running shoes for a 5K run on the Arizona Canal, hosted by The Women's Collective, before a fun night at Canal Convergence. Learn more: The-WC.org/events.
Women's Collective is a Community Partner; a portion of the proceeds from the Women's Collective Run will benefit Canal Convergence.

The Canal Convergence Gold Pallette Artwalk

Thursday, Nov. 9, 6:30–9 p.m.

Old Town Scottsdale, along Main Street

Stop by the Scottsdale Gallery Association's first Gold Palette ArtWalk of the fall season, featuring extended gallery hours.

MUSIC & PERFORMANCES

Waveplay Performance by NicoleOlsonIMovementChaos, Canal Convergence 2023. Photo: David Blakeman

Live Music at Herberger Stage

Enjoy live music every night at the Herberger Stage in Soleri Plaza.

Headliners include:

Kim Weston (Nov. 8)

Viridian (Nov. 9)

Desert Rose Project (Nov. 14)

Sandra Bassett (Nov. 15)

Medio Pinto (Nov. 16)

Hyperbella (Nov. 17)

To view the full performance lineup, visit CanalConvergence.com or scan the QR code. You can also refer to the schedule of events on pages 18 to 27 for a full listing of events by day.

Dance at Canal Convergence

Happening throughout the weekend, Canal Convergence attendees can experience pop-up and site-specific performances by local dance artists.

Crest

Saturday, Nov. 9, 8:15–8:25 p.m.

Marshall Way Bridge

Crest is a site-specific performance work by NicoleOlsonIMovementChaos in response to the artwork *Phase Change* by post-.

Performance Activations

Sunday, Nov. 10, 6:30–8 p.m.

The PORTAL* and *The ARRAY

Scottsdale Community College Dance, in residency with Nicole Olson, performs site-specific works, featuring dancers Carmen Rosales, Mary Dale, Alyssa Wong, Sophia Balbas, Hailey Serkland, and Juliani Villegas.

EAT AND DRINK

Canal Convergence 2023. Photo: David Blakeman

Enjoy a glass of wine, beer, canned cocktail, or soft drink during Canal Convergence at Soleri Plaza. And grab a bite to eat from one of the delicious on-site food trucks.

One Water Brewing Showcase (one night only)

Friday, Nov. 8, 6 p.m.

Tickets: $20 (includes reusable beer sampling cup and five beer samples of your choice from the participating breweries)

This sustainability-focused event returns for its third year for a one-night showcase of beers made exclusively with ultra-purified water from Scottsdale's Advanced Water Treatment Plant.

desert monks brewing co · FATE BREWING · ÖHSO BREWERY + DISTILLERY · WALTER STATION BREWERY · Wren House Brewing Co.

Learn more at CanalConvergence.com or scan the QR code.

01 ***The ARRAY***
by Big Art (Calgary, Canada)

02 ***The EQUBE***
by Big Art (Calgary, Canada)

03 ***Fireflection***
by Walter Productions (Phoenix, Arizona)

04 ***Gaiascope***
by Mindbender Studio (Telluride, Colorado)

05 ***Gold Pressed***
by Kenaim Al-Shatti (Phoenix, Arizona)

06 ***Molecules***
by The Urban Conga (New York City, New York)

06 ***Molecules*** **Interactive Zone**
by The Urban Conga (New York City, New York)

07 ***Phase Change***
by post- (Ithaca, New York)

08 ***The PORTAL***
by Big Art (Calgary, Canada)

09 ***Synthesis***
by Nicholas Lavella, Immerge Interactive
(Philadelphia, Pennsylvania)

SRP Information Booth and Displays

Scottsdale Water's Water Refill Station

The Billie Jo Herberger Lounge

Herberger Stage

Soleri Bar

Restrooms

Nationwide® **Innovation Zone**

Scottsdale Arts Roundabout Booths

- Information Booth
- The Store @ Canal Convergence
- A variety of community partner activities and booths.

DAILY EVENT SCHEDULE

FRIDAY, NOV. 8

ART EXPERIENCES

5 p.m.	SRP Canal History Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m	Walter Productions fire performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–10 p.m.	Reflashion: Dress Up with Crummy Clothes
6–10 p.m.	The Art of Reflection: Trifold Collage Workshop with The Walter Hive
6–10 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:15 p.m	Make Your Own *Gaiascope**

SCOTTSDALE ARTS ROUNDABOUT

6–10 p.m.	Community Partner Activities

HERBERGER STAGE

6–6:45 p.m.	Dylan Paul Thomas (acoustic)
7:15–8:15 p.m.	TV Messages (indie)
8:45–9:45 p.m.	Kim Weston (jazz)

SPECIAL EVENT

6 p.m.	One Water Brewing Showcase, Soleri Plaza*

*Asterisks denote events with fees and/or tickets reserved in advance

SATURDAY, NOV. 9

ART EXPERIENCES

5 p.m.	SRP Canal History Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal
8:15 p.m.	*Crest* by NicoleOlson|MovementChaos, Marshall Way Bridge

NATIONWIDE INNOVATION ZONE

6–10 p.m.	Reflashion: Dress Up with Crummy Clothes
6–10 p.m.	The Art of Reflection: Trifold Collage Workshop with The Walter Hive
6–10 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:15 p.m.	Make Your Own *Gaiascope**

SCOTTSDALE ARTS ROUNDABOUT

6–10 p.m.	Community Partner Activities

HERBERGER STAGE

6–6:45 p.m.	Alex Krimm (folk)
7:15–8:15 p.m	Dirt Rhodes (country)
8:45–9:45 p.m	Viridian (indie)

SPECIAL EVENTS

5:30 p.m.	The Women's Collective Night Run*
6 p.m.	Canal Convergence Opening Celebration, The Billie Jo Herberger Lounge*

DAILY EVENT SCHEDULE (CONT.)

SUNDAY, NOV. 10

ART EXPERIENCES

5:30 p.m.	Art Tour with Spanish translation, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal
6:30 p.m.	Performance Activations by Scottsdale Community College Dance in Residency with Nicole Olson, various locations

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	The Light Within with urbanSTEW
6–9 p.m.	Reflections in Printmaking with Xico
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence

SCOTTSDALE ARTS ROUNDABOUT

6–9 p.m.	Community Partner Activities

HERBERGER STAGE

6–7 p.m.	Ariel Miranda (acoustic)
7:30–8:45 p.m.	Aaron Nelson Project (R&B/pop)

*Asterisks denote events with fees and/or tickets reserved in advance

MONDAY, NOV. 11

ART EXPERIENCES

5:30 p.m.	Art Tour with ASL translation, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	Whispers of the Past, Shaped by Water with AZ(LAND)
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:45 p.m.	Everlasting Elegance: Fall Wreath Workshop*

SCOTTSDALE ARTS ROUNDABOUT

6–9 p.m.	Community Partner Activities

HERBERGER STAGE

6–7 p.m.	Summer and the Rain (rock)
7:30–8:45 p.m.	SunKissed (folk/pop)

SPECIAL EVENT

7 p.m.	Illuminating the Future: Sustainable Fashion Show by ASU Fashion Design Students, *The PORTAL*

DAILY EVENT SCHEDULE (CONT.)

TUESDAY, NOV. 12

ART EXPERIENCES

5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	Whispers of the Past, Shaped by Water with AZ(LAND)
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:45 p.m.	The First Dance with Flowers*

SCOTTSDALE ARTS ROUNDABOUT

6–9 p.m.	Community Partner Activities

HERBERGER STAGE

6–7 p.m.	Seligo (DJ–house/baile)
7:30–8:30 p.m.	Seligo (DJ–house/baile)

SPECIAL EVENT

6 p.m.	Scottsdale Professionals Converge, presented by Randy Nussbaum and Sacks Tierney P.A., The Billie Jo Herberger Lounge*

*Asterisks denote events with fees and/or tickets reserved in advance

WEDNESDAY, NOV. 13

ART EXPERIENCES

5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	Whispers of the Past, Shaped by Water with AZ(LAND)
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:15 p.m.	Ivy Hoop Topiary Workshop*

SCOTTSDALE ARTS ROUNDABOUT

6–9 p.m.	Community Partner Activities

HERBERGER STAGE

6–7 p.m.	Josh Caballes (DJ–R&B/pop)
7:30–8:30 p.m.	Josh Caballes (DJ–R&B/pop)

DAILY EVENT SCHEDULE (CONT.)

THURSDAY, NOV. 14

ART EXPERIENCES

5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal
8 p.m.	Immerge Interactive, *Synthesis* drone performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	CREATE a Succulent with the AZ Science Center
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6:15–7:15 p.m.	CREATE an Infinity Mirror with the AZ Science Center*

HERBERGER STAGE

6–7 p.m.	Marty & The Party (country)
7:30–8:45 p.m.	Desert Rose Project (rock)

*Asterisks denote events with fees and/or tickets reserved in advance

FRIDAY, NOV. 15

ART EXPERIENCES

5 p.m.	SRP Canal History Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal
8 p.m.	Immerge Interactive, *Synthesis* drone performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–10 p.m.	Reflashion: Dress Up with Crummy Clothes
6–10 p.m.	The Art of Reflection: Trifold Collage Workshop with The Walter Hive
6–10 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6–10 p.m.	CREATE a Succulent with the AZ Science Center

SCOTTSDALE ARTS ROUNDABOUT

6–10 p.m.	Community Partner Activities

HERBERGER STAGE

6–6:45 p.m.	Talia Roya (alt R&B)
7:15–8:15 p.m.	Joey Gutos (Indie Pop)
8:45–9:45 p.m.	Sandra Bassett (Disco)

SPECIAL EVENT

3–7 p.m.	Canal Convergence Mini Film Festival, Harkins Theatres Camelview at Fashion Square 14*

DAILY EVENT SCHEDULE (CONT.)

SATURDAY, NOV. 16

ART EXPERIENCES

5 p.m.	SRP Canal History Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal
8 p.m.	Immerge Interactive, *Synthesis* drone performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–10 p.m.	Reflashion: Dress Up with Crummy Clothes
6–10 p.m.	The Art of Reflection: Trifold Collage Workshop with The Walter Hive
6–10 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence
6–10 p.m.	CREATE a Succulent with the AZ Science Center

SCOTTSDALE ARTS ROUNDABOUT

6–10 p.m.	Community Partner Activities

HERBERGER STAGE

6–6:45 p.m.	AJ Odneal (folk/pop)
7:15–8:15 p.m.	Motel Arizona (Americana)
8:45–9:45 p.m.	Medio Pinto (Latin/folk)

SPECIAL EVENTS

3–7 p.m.	Canal Convergence Mini Film Festival, Harkins Theatres Camelview at Fashion Square 14*
7:30–9:30 p.m.	Film Fest VIP Experience, Fiesta Bowl Museum*

*Asterisks denote events with fees and/or tickets reserved in advance

SUNDAY, NOV. 17

ART EXPERIENCES

5:30 p.m.	Art Tour, meet at Canal Convergence Information Booth, Marshall Way Bridge*
6:30, 7:30, and 8:30 p.m.	Walter Productions fire performance, Arizona Canal

NATIONWIDE INNOVATION ZONE

6–9 p.m.	Reflashion: Dress Up with Crummy Clothes
6–9 p.m.	The Light Within with urbanSTEW
6–9 p.m.	Reflections in Printmaking with Xico
6–9 p.m.	Illuminating the Future: Sustainable Fashion at Canal Convergence

SCOTTSDALE ARTS ROUNDABOUT

6–9 p.m.	Community Partner Activities

HERBERGER STAGE

6–6:45 p.m.	Soul Revue (Motown)
7:15–8:15 p.m.	Hyperbella (intergalactic neo-soul)

SUSTAINABILITY

Canal Convergence is committed to promoting sustainable practices and minimizing environmental impacts.

We recognize the importance of preserving our planet for future generations and strive to lead by example in the events industry. One of our primary focuses is on recycling and waste reduction. We actively encourage attendees, vendors, and partners to participate in our recycling initiatives:

Help save the planet by placing all recyclable waste in the clearly marked bins.

Bring your reusable water bottle, and fill it up at the City's water trailer.

Reduce carbon emissions. Use an alternative form of transportation, such as biking, walking, or ride sharing.

In addition to recycling, we prioritize waste-reduction strategies. We actively seek out eco-friendly alternatives to single-use items, such as biodegradable or compostable food containers and utensils. By minimizing the use of disposable products, we aim to reduce the amount of waste generated during our events.

We understand that sustainability is an ongoing journey, and we are dedicated to continually improving our practices, so join us in our efforts as we work toward a more sustainable future.

Artist Mary Bates Neubauer designed and created *Traceries*, a series of eight side-by-side metal recycle/waste bins as part of a project by Scottsdale Public Art and Scottsdale Solid Waste Services. Learn more at ScottsdalePublicArt.org.

SUPPORT CANAL CONVERGENCE

Scottsdale Arts is proud to continue offering free access to the unique art experiences of Canal Convergence, but we need your help. Scan the QR code below and help keep Canal Convergence free by making a tax-deductible donation today.

Flario by Walter Productions, Canal Convergence 2023. Photo: David Blakeman.

THANK YOU

WORLD CLASS PARTNERS AND SPONSORS:

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SCOTTSDALE LEADERSHIP DEVELOPING COMMUNITY LEADERS

SPIRIT OF THE COMMUNITY PARTNER:

BLICK® art materials

Sumners, Cheryl

From: Jennifer Gill <jenniferG@scottsdalearts.org>
Sent: Friday, September 27, 2024 1:58 PM
To: Ibsen, Eric
Cc: Sumners, Cheryl; Barry, Erin; Kati M. Ballares; Kiara Brown
Subject: Canal Convergence Questions
Attachments: PlatformLocation-Molecules.jpg

Hi Eric,

Guess what time of year it is?! Canal Convergence is coming up Nov. 8-17, 2024, and we will start installing Oct. 28, and will complete our deinstallation, at the latest, but Nov. 22. So I would like to request our usual shift to overnight watering starting on Oct. 28 (so the watering of the grass areas occur between Midnight and 6 a.m.), or just turn it off, which I think you all have also done before. Either works for me.

I also wanted to ask about, and for the following things:

1. We are having a drone show this year that will happen over the canal between Marshall Way Bridge and Goldwater. Can we meet with your guys out on site to see if we can trim back any overhanging trees like we have done in the past?
2. We are planning on building another platform on the southeast side of the canal bank again (we made two last year and we met out on site to get your OK). The size and position will be a bit different, but the build/installation method will be the same. See the attached image of the proposed site. Let me know if you are good to go with this again, or if you want to meet our install lead on site again to review.
3. What is the power washing plan/schedule for this year?

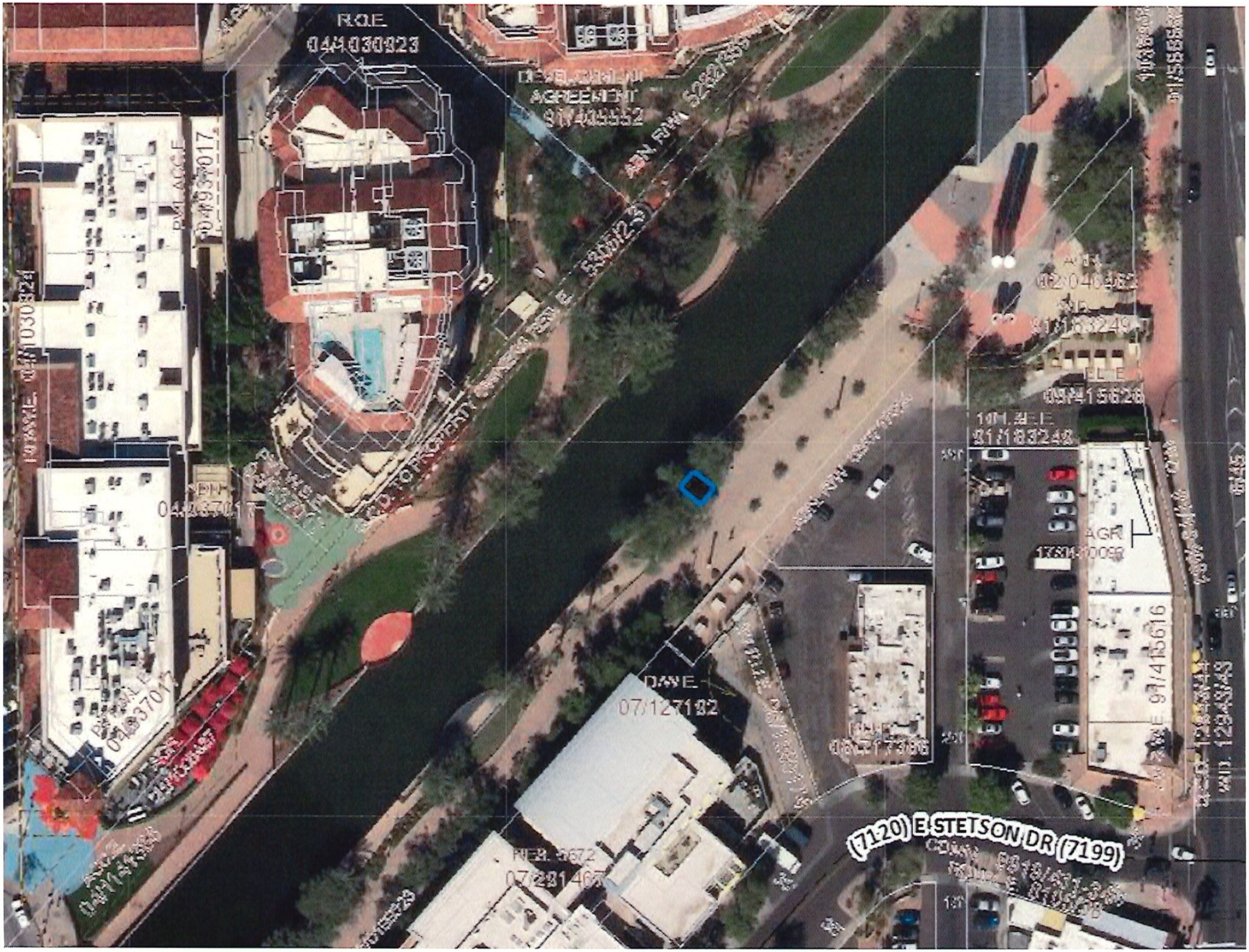
Thank you, and have a great weekend!

Best Regards,

Jennifer Gill
Scottsdale Arts
Deputy Director of Canal Convergence
Pronouns: She/Hers

C: 248.840.7012
T: 480.874.4650
CanalConvergence.com

arts scottsdale canal convergence
Scottsdale Arts, 7380 East Second Street, Scottsdale, Arizona 85251



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AGREEMENT
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07/281467
AGR

Sumners, Cheryl

From: Jennifer Gill <jenniferG@scottsdalearts.org>
Sent: Monday, September 9, 2024 11:28 AM
To: Victoria Sajadi; Sumners, Cheryl
Subject: Re: Request for Final Approval

Hi Cheryl,

Following up on the email below.

Here is how we are planning to move forward:

1. Updating the spacing to be a consistent 6' apart, to allow for ADA access.
    a. While as the artist has demonstrated in his drawing, 6' should be sufficient for two wheelchairs to pass by at the same time if needed. Also with the new, to scale drawing (the first one was not to scale in relation to the bridge) you can see there will also be more room between the edges of the sculptures and the pillars along the bridge, which will also provide sufficient turning radius for wheelchair use.

I also want to note for you and the new city ADA person, that in addition to the spacing, we will have staff assigned to monitor the artwork and engage in crowd control, so that we can ensure that everyone has access to the artwork. Please let us know if there are any other questions or concerns about the spacing. If we do not hear from you by the end of the day tomorrow, we will assume we are all good to go as stated above.

Best regards,

Jennifer Gill
Scottsdale Arts
Deputy Director of Canal Convergence
Pronouns: She/Hers

C: 248.840.7012
T: 480.874.4650
CanalConvergence.com

arts scottsdale canal convergence

Scottsdale Arts, 7380 East Second Street, Scottsdale, Arizona 85251

Sumners, Cheryl

From: Kiara Brown <kiarab@scottsdalearts.org>
Sent: Wednesday, September 18, 2024 4:35 PM
To: Sumners, Cheryl
Cc: Jennifer Gill
Subject: Canal Convergence 2024 Information
Attachments: Canal Convergence Sign Off 2024.pdf; CC2024-FULL-9.3.2024 copy.jpg; General CC 2024 Summary Sheet 9.18.docx

Hi Cheryl,

I wanted to provide you with some information, our most recent site map, and the annual sign-off document for Canal Convergence. All stakeholders have signed, and almost all surrounding businesses you listed have been notified of the event. I will stop by Marcellinos later today and share our event information with them 😊

Our install/deinstall information is as follows:

Install
October 28 – November 7
8 a.m. – 10 p.m.

Deinstall
November 18 – November 22
8 a.m. – 10 p.m.

Also, could November 18 be added to our roundabout closure schedule? If so, what would the additional cost be? Additionally, since I've already gotten signatures from the stakeholders, would it be possible to notify them and get their approval via email if we add this closure?

Lastly, we are in the final phases of our review process with the engineers for the structural components of the artwork. Once we receive them, we can share those reports with you.

Please let me know what else you need from me for Canal Convergence 2024!

Warm regards,

Kiara Brown
Scottsdale Arts
Canal Convergence Event Coordinator
480-425-5352
ScottsdaleArts.org

arts scottsdale canal convergence

Sumners, Cheryl

From: Jennifer Gill <jenniferG@scottsdalearts.org>
Sent: Friday, September 6, 2024 11:13 AM
To: Sumners, Cheryl; Bailey, Christian - 1150; Shaffer III, Wesley - 825; Cody Koziol; Kati M. Ballares; Nate M; Bryanna McHenry; Nicholas Lavella
Subject: Drone Shows at Canal Convergence 2024

Hi everyone,

We are officially moving forward with having three, 50-drone performances, at Canal Convergence 2024 (Nov. 8-17, 2024). I have already spoken to or emailed Cheryl (City of Scottsdale Special Events Department), Christian (Scottsdale Police Department), and Bryanna (Salt River Project) about these shows over the past few months, so now that it is finalized on our end, we would like to set up a Teams meeting with all parties on this email to walk through set-up, flight, strike, and any other aspects we need to share for the safe and successful performance of these shows at Canal Convergence.

First, as a point of reference, I will identify everyone on this email and their roles below:

Cheryl Sumners: Events Manager with the City of Scottsdale Tourism & Events Department
Christian Bailey: Detective with the Special Events and Liquor Section of the Scottsdale Police Department
Wesley Shaffer III: Special Event Sargent with the Special Events and Liquor Section of the Scottsdale Police Department
Cody Koziol: Event Production and Operations, Entertainment Solutions Inc., and the event Ops lead for Canal Convergence 2024
Kati Ballares: Director of Scottsdale Public Art, and the Canal Convergence Project Manager for the drone shows.
Nate Mortensen: CEO of Open Sky Pro, the company that Canal Convergence is contracted with to operate the drone shows.
Bryanna McHenry: Canal Multiple Use Construction Consultant with Salt River Project, and Canal Convergence's point of contact for canal approvals.

Here is a list of available meeting times in MST that Kati and I have available the week of Sept. 16:

9/16: 1-5 p.m.
9/17: 9-10 a.m.
9/18: 2-5 p.m.
9/19: 9-11 a.m., 2-5 p.m.

@Sumners, Cheryl, @Bailey, Christian - 1150, @Shaffer III, Wesley - 825, @Cody Koziol, @Nate M, @Nicholas Lavella, and @Bryanna McHenry, please respond to this email with your availability during these times, and I will set up the Teams meeting asap. Once the meeting is set, we can share out more specifics of the shows prior to the meeting so everyone can review and come in with any questions they may have. If none of these dates and times work for you, let me know that too.

Thank you everyone,

Jennifer Gill
Scottsdale Arts
Deputy Director of Canal Convergence

“Synthesis” Drone Performance Handbook Canal Convergence 2024

Performance Details

1. Length of Show – 12 minutes
2. Dates/Times of Performances:

   Thursday November 14 @ 8pm

   Friday November 15 @ 8pm

   Saturday November 16 @ 8pm

3. Maximum Dimensions of Show:

   50 drones

   Extending from Goldwater Bridge to Marshall Way Bridge

   No higher than 50 ft above ground level

   Drones will never fly over people.

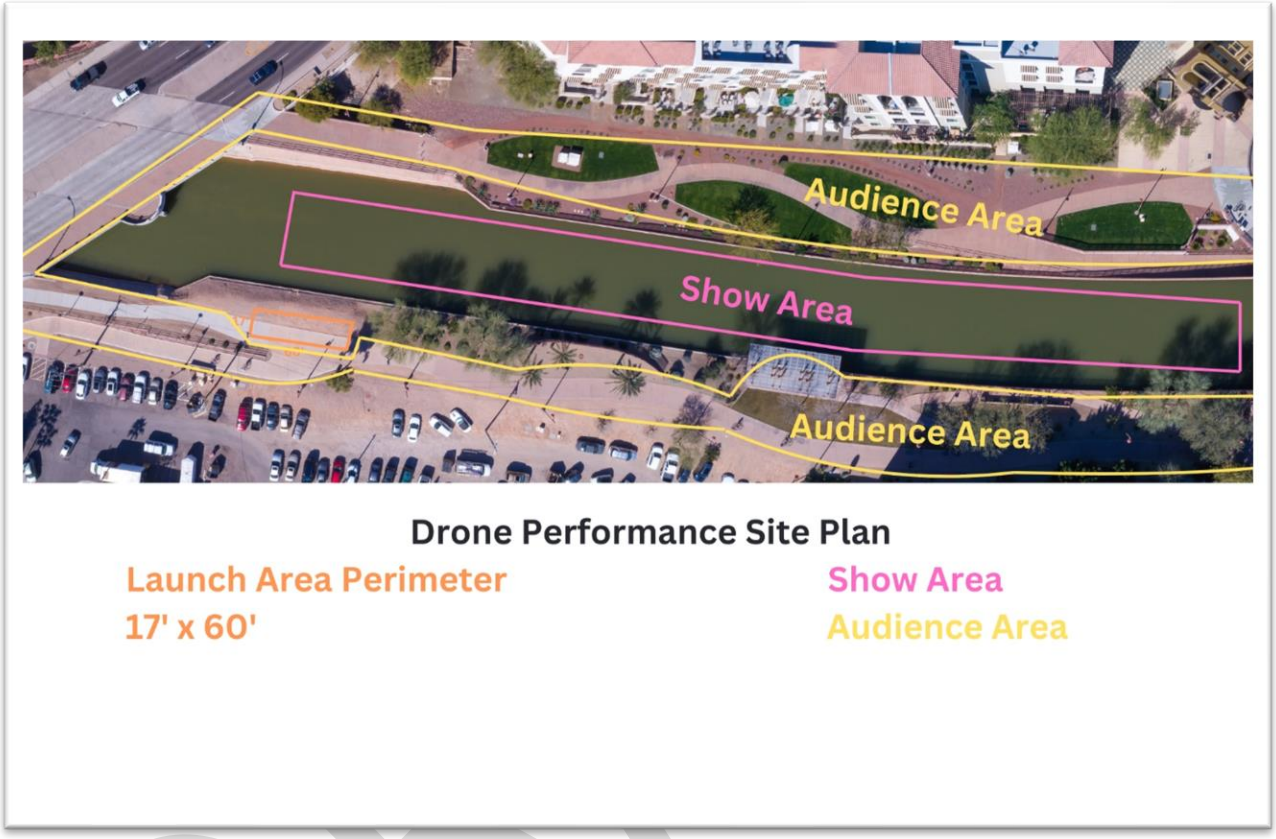
Description

"Synthesis" is a kinetic light art installation performed by drones, capturing the transformation from chaos to harmony and reflecting the emergence of order through dynamic movements. The performance unfolds in multiple waves, each exploring the journey from disorder to symmetry, mirroring the process of self-reflection and growth. It begins with erratic, chaotic patterns that gradually transition into symmetrical formations, symbolizing the clarity and balance that emerge from introspection. Amplified by the reflections on the canal’s surface, the drones create a mesmerizing interplay of light and water. As the show progresses, the evolving designs illustrate the integration of insights gained through reflection, inviting viewers to contemplate their own experiences of finding order and understanding in the midst of chaos.

Artwork information form: Immerge 2024-Artist Information Form.docx

“Synthesis” Drone Performance Handbook Canal Convergence 2024

Overall Performance Site Plan



Set Up

Set up for drone performance will begin at 3pm on Thursday and 4pm on Friday and Saturday. Open Sky Pro will need parking secured for load in and load out, all drone set up will be by hand.

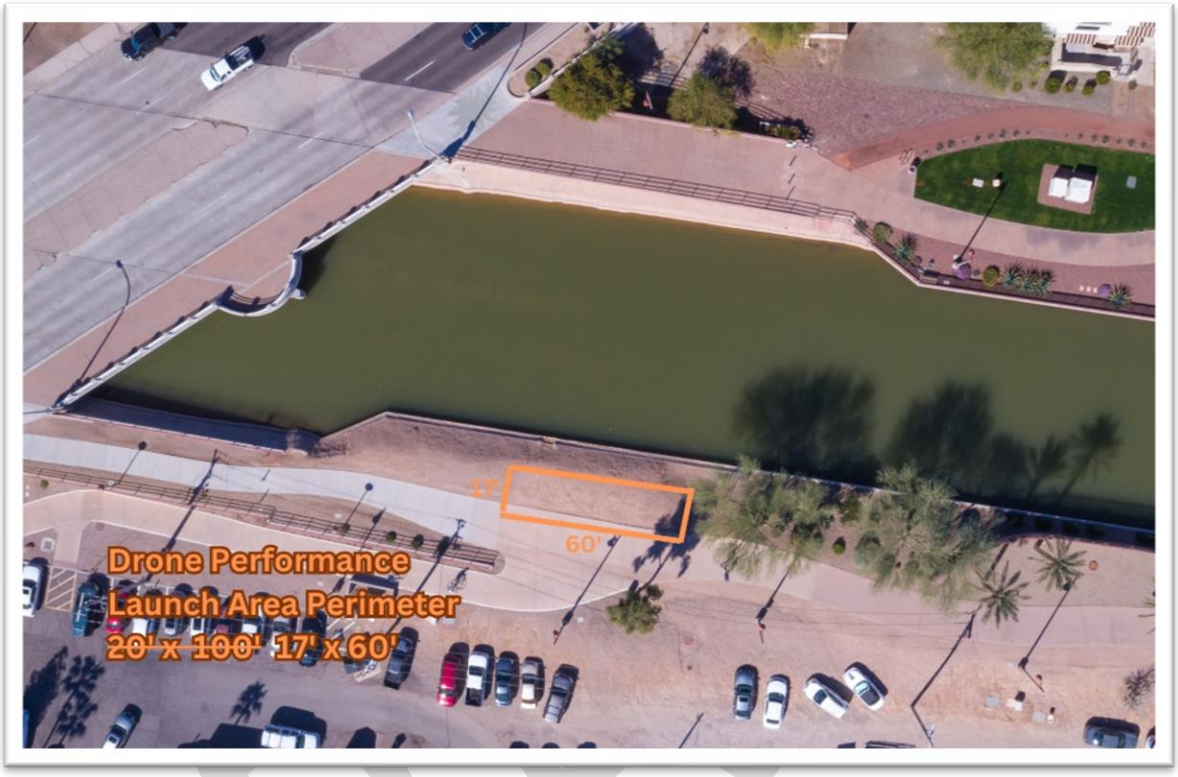
Power & WiFi – No additional Power or WiFi is required for the set up or operation of the drone performance. Open Sky Pro will have generator power supply if needed.

Drone Launch Area Security

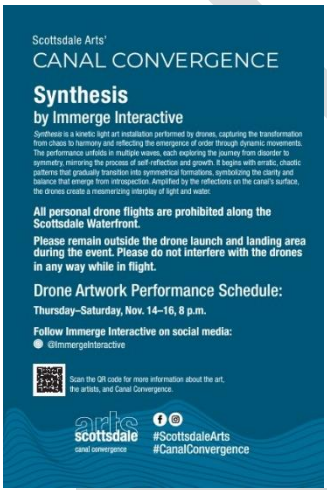
1. Fencing – no height requirement 2-3’ high, run from canal edge to sidewalk 50’ – 60’ long
2. Drones will launch in 2 x 25 rows. Fencing will need to be slightly on the sidewalk maintaining a 10’ egress.
3. Ambassadors and security will need to watch traffic flow carefully to ensure that no one enters perimeter while secured and especially during take off and landing.

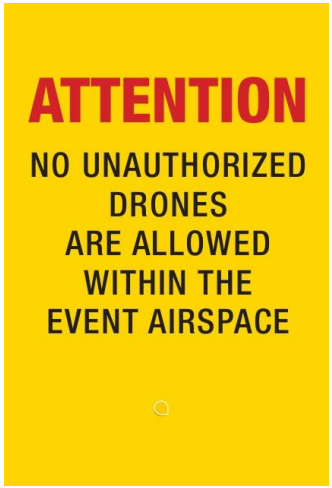
“Synthesis” Drone Performance Handbook Canal Convergence 2024

17’x60’. *Fencing should not be metal – could interfere with drone communication*



4. Security Guards (1)
5. Ambassadors during flight (2 + 2 Scottsdale Arts Staff)
    a. Special Training – Ambassadors will be positioned to keep people out of launch area once drones are in place and especially during take off and landing.
6. Signage – Art Signage at Drone Launch Area + Signage at each entry to event (8)





“Synthesis” Drone Performance Handbook Canal Convergence 2024

Contact Information

Name	Role	Email	Phone	Notes
Nicholas Lavella	Lead Artist	nl@immergeinteractive.com	215.399.5747	**Immerge Interactive LLC** | President
Nate Mortensen	CEO	nate@openskypro.com	801-996-4857	openskypro.com
Ashlyn Olaza	Design and Logistics Project Manager	ashlyn@openskypro.com		
Evan Petrie	Drone Pilot	evan@openskypro.com		
Det. Christian Bailey	Police Officer, Liquor Enforcement	chbailey@ScottsdaleAZ.gov	480-312-5873	https://www.scottsdaleaz.gov/special-events/contacts
Cheryl Sumners	Tourism & Events - Cheryl Sumners, Events Manager	csumners@ScottsdaleAZ.gov	480-312-7834	https://www.scottsdaleaz.gov/special-events/contacts
Erin Barry	Tourism & Events - Erin Barry, Event Coordinator	ebarry@ScottsdaleAZ.gov	480-312-2453	https://www.scottsdaleaz.gov/special-events/contacts
Kati Ballares	Public Art Director, Project Manager	katib@scottsdalearts.org	803-984-1065	Scottsdale Arts
Jennifer Gill	Deputy Director Canal Convergence	JenniferG@scottsdalearts.org	248-840-7012	Scottsdale Arts
Darren Jeffery	Lead Rigger	darren.jeffrey01@gmail.com	951 202 4303	Scottsdale Arts
Ian Coyne	Operations	IanC@scottsdalearts.org	4803279132	Scottsdale Arts

“Synthesis” Drone Performance Handbook Canal Convergence 2024

Test Flight

Test Flight occurred November 2nd, 2024. 8 drones tested entire sequence and adjustments were made to show file to accommodate on site requirements.

Permitting Requirements

Provided by OSP – See Attached FAA Permit and Pilots License.

Communications with Scottsdale PD

- Inform of all drone activity (included in this package)
- See attached FAA Waiver and Copy of Drone Pilot License for Evan Petrie

Will provide flight path information when finalized. Artist and Open Sky Pro are currently finalizing

Floatation/Emergency Drone Rescue Plan

1. Darren will work with OSP on a plan to attach flotation devices to the drones if acceptable.
2. OSP will use extending nets to get the drones out of the water – https://www.sportsmans.com/fishing-nets/ranger-products-octagon-rubber-telescopic-net/p/436025

STRUCTURAL SUBMITTAL PACKAGE

for

Big Art

Canal Convergence

Project Location: Scottsdale, AZ

Event Dates: November 5th-22nd, 2024

Submittal Date: 9/30/2024

Clark Reder Project Number: 24.401.217

Reviewed by:

Jeffrey M. Reder, P.E.

Prepared by:

Matthew J. Ranno

Table of Contents for Structural Submittal Package

Project Information

Project Summary

The project referenced by this submittal consists of (2) temporary outdoor truss structures to be installed in Scottsdale, AZ from November 5th-22nd, 2024. The EQUBE structure measures approximately 8 ft tall x 8 ft long x 8 ft wide and features wood cladding on all (4) sides as well as the top. The circular Portal structure measures approximately 14.5 ft in diameter x 13.5 ft tall and features LED tiles. Both structures are to be constructed using 12" x 12" aluminum plated box truss and are to be used for less than (6) weeks per installation.

Scope of Review

Clark Reder Engineering reviewed the temporary outdoor truss structures for code required gravity and wind loads. The structures have been reviewed for a service level wind speed of 59 mph. An operations management plan has been included with this submittal and must be always adhered to. Ballast is required, which is specified in the drawings. Mathcad, RISA, and Excel were used to perform the review.

Clark Reder Engineering has not reviewed the wood cladding or LED tiles.

Conclusions

Our review has concluded that the Canal Convergence structures meet the structural requirements of the 2021 International Building Code, ASCE 7-16, and ASCE 37-14.

Limitations and Exceptions

The scope of review for this submittal is limited to the items listed above. All other temporary or permanent structures on site not specifically referenced above under "Scope of Review" are the responsibility of others.

Where the items covered by this submittal are attached to existing structures, it is the responsibility of the engineer of record for those existing structures to review the impact of the elements referenced in this submittal.

GENERAL STRUCTURAL NOTES

EVENT DATE & LOCATION

1. EVENT DATE: NOVEMBER 5TH-22ND, 2024
2. EVENT LOCATION: SCOTTSDALE, AZ

CODES

1. 2021 INTERNATIONAL BUILDING CODE
2. ASCE 7-16: MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
3. ASCE 37-14: DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION
4. 2020 ALUMINUM DESIGN MANUAL
5. AISC 360-16: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

REFERENCES

1. ANSI E1.21-2020 ENTERTAINMENT TECHNOLOGY, "TEMPORARY GROUND-SUPPORTED OVERHEAD STRUCTURES USED TO COVER THE STAGE AREAS AND SUPPORT EQUIPMENT IN THE PRODUCTION OF OUTDOOR ENTERTAINMENT EVENTS"
2. ANSI E1.2-2021 ENTERTAINMENT TECHNOLOGY, "DESIGN, MANUFACTURE AND USE OF ALUMINUM TRUSSES AND TOWERS"

DESIGN LOADS

1. DEAD LOAD: SELF-WEIGHT OF STRUCTURE
2. WIND LOADS:
    - A. WIND RISK CATEGORY: II
        1. DESIGN SERVICE-LEVEL WIND SPEED: **59** MPH
            - a. REQUIRED WIND SPEED HAS BEEN REDUCED IN ACCORDANCE WITH ASCE 37-14 DUE TO THE TEMPORARY NATURE OF STRUCTURE
        2. EXPOSURE: **C**
    - B. SITE ELEVATION: 1274 FT
    - C. REFERENCE THE HIGH WIND ACTION PLAN FOR SPECIFIC ACTIONS THAT SHALL BE TAKEN TO ENSURE STABILITY OF THE TEMPORARY STRUCTURE IN HIGH WINDS.
3. SEISMIC LOADS DO NOT CONTROL THE DESIGN OF THIS STRUCTURE.

CONSTRUCTION AND SAFETY

1. ENGINEER SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, OR SEQUENCE OF CONSTRUCTION UNLESS SPECIFICALLY STATED ON THE DRAWINGS.
2. ENGINEER HAS DESIGNED THE STRUCTURES FOR THEIR FINAL AS-BUILT CONDITION. ENGINEER IS NOT RESPONSIBLE FOR TEMPORARY STABILITY OF STRUCTURES DURING ERECTION UNLESS SPECIFICALLY STATED ON THE DRAWINGS.
3. STRUCTURE HAS BEEN DESIGNED AS A TEMPORARY STRUCTURE THAT SHALL BE IN PLACE FOR LESS THAN SIX WEEKS.

FOUNDATIONS

1. THE STRUCTURE IS ASSUMED TO BE FOUNDED ON LEVEL GROUND (CONCRETE, ASPHALT, GRASS, ETC) WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1500 PSF.

BALLAST

1. BALLAST SHALL BE INSTALLED PER THE ENGINEERING DRAWINGS. DEVIATIONS IN WEIGHT OR PLACEMENT SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
2. BALLAST SHALL NOT BE INSTALLED ON GRAVEL, ICE, GRASS, SLOPING OR OTHERWISE UNSTABLE TERRAIN UNLESS MEANS TO PREVENT SLIDING ARE PROVIDED.
3. BALLAST AMOUNTS GIVEN CONSIDER UPLIFT AND SLIDING, WITH A MINIMUM 1.5 FACTOR OF SAFETY AGAINST OVERTURNING.
4. .
5. MULTIPLE BALLAST LOCATIONS MAY NOT BE COMBINED INTO A SINGLE LOCATION WITHOUT PRIOR WRITTEN APPROVAL FROM A LICENSED STRUCTURAL ENGINEER.

ALUMINUM TRUSS

1. ALUMINUM TRUSS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING COMPANIES OR AN APPROVED EQUAL:
   A. UNISSON
2. TRUSS TO TRUSS CONNECTION HARDWARE (UNLESS NOTED OTHERWISE):
   A. PLATED ENDS: 5/8"Ø GRADE 8 BOLTS
3. TRUSS END PLATE BOLTS SHALL BE TIGHTED TO THE SNUG TIGHT CONDITION. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN THE CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS AND ALL BOLTS HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF WRENCH.
4. UNLESS NOTED OTHERWISE, ALL LOADS SHALL BE APPLIED TO TRUSSES AT PANEL POINTS.
5. RATED SPANS, CAPACITIES AND LOADING CONDITIONS PUBLISHED BY THE TRUSS MANUFACTURER SHALL NOT BE EXCEEDED UNLESS REVIEWED AND APPROVED BY A LICENSED ENGINEER FOR A SPECIFIC USE.
6. DO NOT PLACE LIGHTING CLAMPS OR WIRE ROPE IN DIRECT CONTACT WITH THE TRUSS UNLESS THE CHORD MATERIAL IS PROTECTED FROM DAMAGE DUE TO OVERTIGHTENING OR WIRE ROPE RUBBING.

STRUCTURAL STEEL

1. ALL STEEL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST VERSION OF THE FOLLOWING SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   A. AISC 360: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   B. AISC 303: CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
   C. RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
   D. AWS D1.1: STRUCTURAL WELDING CODE-STEEL
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING CRITERIA UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   A. PIPE SHAPES: ASTM A53, TYPE E OR S, GRADE B, FY = 35 KSI

INSPECTIONS

1. ALL TRUSS UNITS AND OTHER EQUIPMENT SHALL BE VISUALLY INSPECTED PRIOR TO ERECTION. DAMAGED OR CORRODED EQUIPMENT SHALL NOT BE USED. FIELD MODIFICATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

OPERATIONS MANAGEMENT PLAN

IMPLEMENTATION OF PLAN

1. PRIOR TO EACH INSTALLATION, THE COMPANY IN CONJUNCTION WITH THE VENUE SHALL DESIGNATE A RESPONSIBLE PERSON IN CHARGE OF IMPLEMENTING ALL PHASES OF THE OPERATIONS MANAGEMENT PLAN.
2. A MEETING SHALL BE HELD AT THE VENUE WITH THE OWNER TO DISCUSS THE HIGH WIND ACTION PLAN AND OTHER OPERATIONAL ITEMS.
3. THE METHOD OF INITIATING EVENT CANCELLATION MUST BE OUTLINED EXPLICITLY PRIOR TO THE EVENT ALLOWING FOR IMMEDIATE ACTION IF NECESSARY.
4. A COPY OF THIS PLAN SHOULD BE PROVIDED TO LOCAL POLICE OR FIRE DEPARTMENTS IN ORDER TO HELP USHER PATRONS IN THE EVENT OF AN EVACUATION.

DAILY OPERATIONS PLAN

1. CHECK WEATHER EACH MORNING AND PERIODICALLY THROUGHOUT THE DAY.
2. CHECK TOWER BASES DAILY TO ENSURE ALL REMAIN LEVEL AND PLUMB
3. PROVIDE A DAILY LOG OF THE ABOVE CHECKS FOR EACH INSTALLATION.

HIGH WIND ACTION PLAN

1. THE HIGH WIND ACTION PLAN SHALL BE IN EFFECT FOR THE ENTIRETY OF THE EVENT. AN EVENT SHALL BE DEFINED AS STARTING AT THE INITIAL COMMENCEMENT OF THE STRUCTURE INSTALLATION AND ENDING ONCE THE STRUCTURE IS COMPLETELY DISMANTLED.
2. A COMPETENT RESPONSIBLE PERSON FROM THE STAGING COMPANY SHALL BE PRESENT FOR THE DURATION OF THE EVENT TO IMPLEMENT THE HIGH WIND ACTION PLAN (SEE ABOVE).
3. A REGULAR LIAISON WITH LOCAL AIRPORTS AND/OR WEATHER INFORMATION CENTERS SHALL BE MAINTAINED TO ASCERTAIN IF ANY SIGNIFICANT WEATHER EVENTS ARE EXPECTED IN THE IMMEDIATE VICINITY OF THE STRUCTURE
4. AN ANEMOMETER SHALL BE PLACED ON THE STRUCTURE TO MONITOR WIND SPEEDS. THE ANEMOMETER SHALL BE PLACED AT THE TOP OF A TOWER OR AN ADJACENT STRUCTURE AT A HEIGHT EQUIVALENT TO THE HEIGHT OF THE TOWER. THE ANEMOMETER SHALL BE LOCATED WITHIN 50 YARDS OF THE STRUCTURE.
5. NOTED WIND SPEEDS ARE 3-SECOND GUSTS IN ACCORDANCE WITH ASCE 7
6. **WHEN WIND SPEEDS ARE EXPECTED TO EXCEED 30 MPH**:
   a. A TEAM OF QUALIFIED PERSONNEL SHALL BE PUT ON ALERT. ALL NECESSARY PERSONNEL SHALL BE IN PLACE AND PUT ON STANDBY.
7. **WHEN WIND SPEEDS ARE EXPECTED TO EXCEED 40 MPH**:
   a. THE IMMEDIATE AREA SHALL BE EVACUATED OF ALL PATRONS AND NON-ESSENTIAL PERSONNEL.
8. **AT WINDS SPEEDS IN EXCESS OF 50 MPH**:
   a. ALL PERSONNEL SHOULD MAINTAIN SAFE DISTANCE FROM THE STRUCTURES.
9. THE HIGH WIND ACTION PLAN SHALL BE POSTED AT A CONSPICUOUS AREA ON SITE. IT MUST BE AVAILABLE AT ALL TIMES TO VENUE OPERATORS AND CREW.
10. FAILURE TO FOLLOW THE HIGH WIND ACTION PLAN MAY RESULT IN DAMAGE TO EQUIPMENT AND INJURY TO PERSONS.

SNOW/RAIN REMOVAL

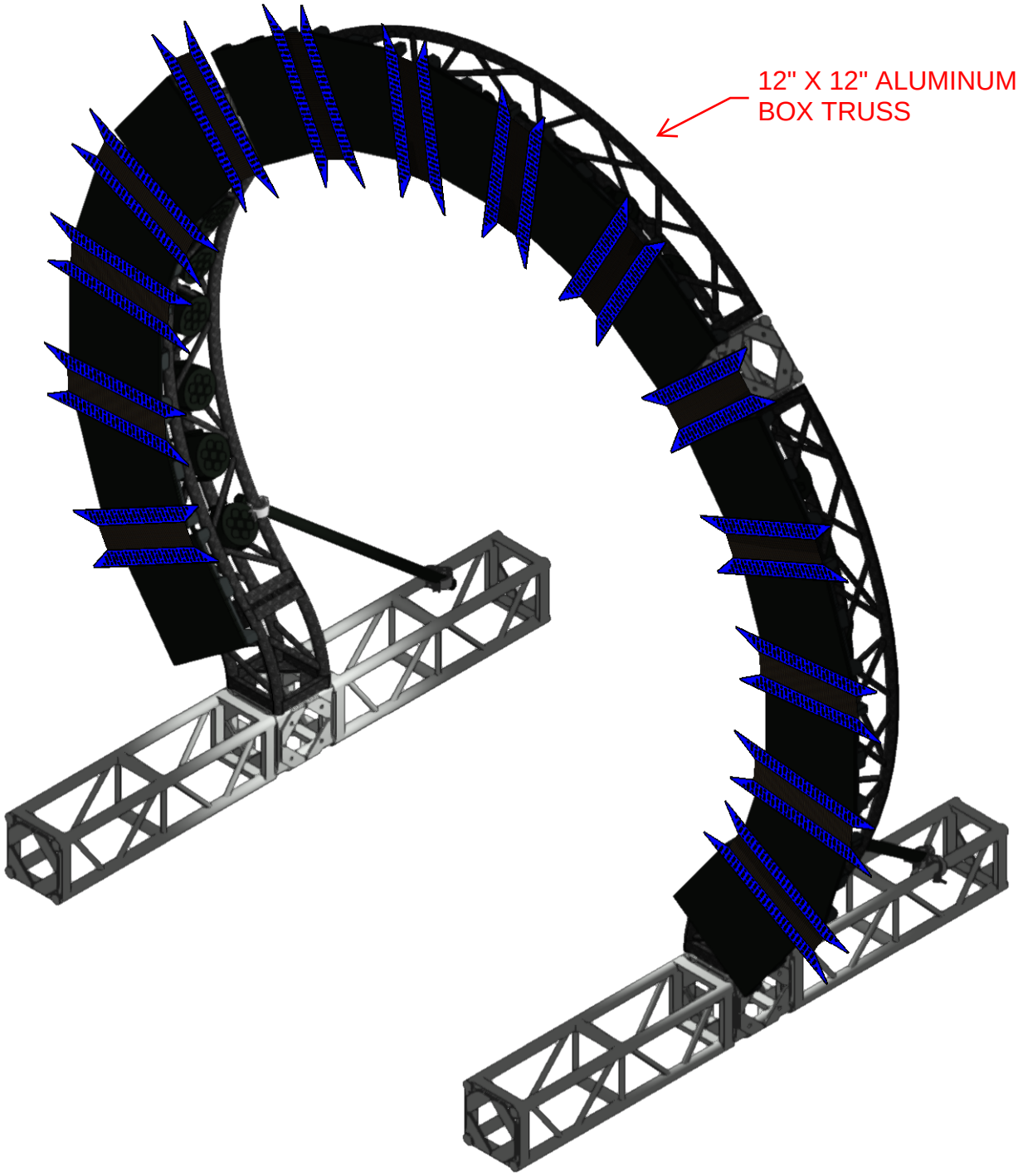
1. THE WOOD CLADDING AND LED PANELS HAVE NOT BEEN DESIGNED TO SUPPORT PONDED WATER OR SNOW. REMOVE ANY AND ALL SUCH ACCUMULATIONS.

SEISMIC LOADS

1. IN THE EVENT OF AN EARTHQUAKE, THE EVENT SHALL BE SUSPENDED UNTIL SUCH TIME THAT THE STRUCTURES HAVE BEEN INSPECTED BY A COMPETENT PERSON ON SITE.

Appendix A

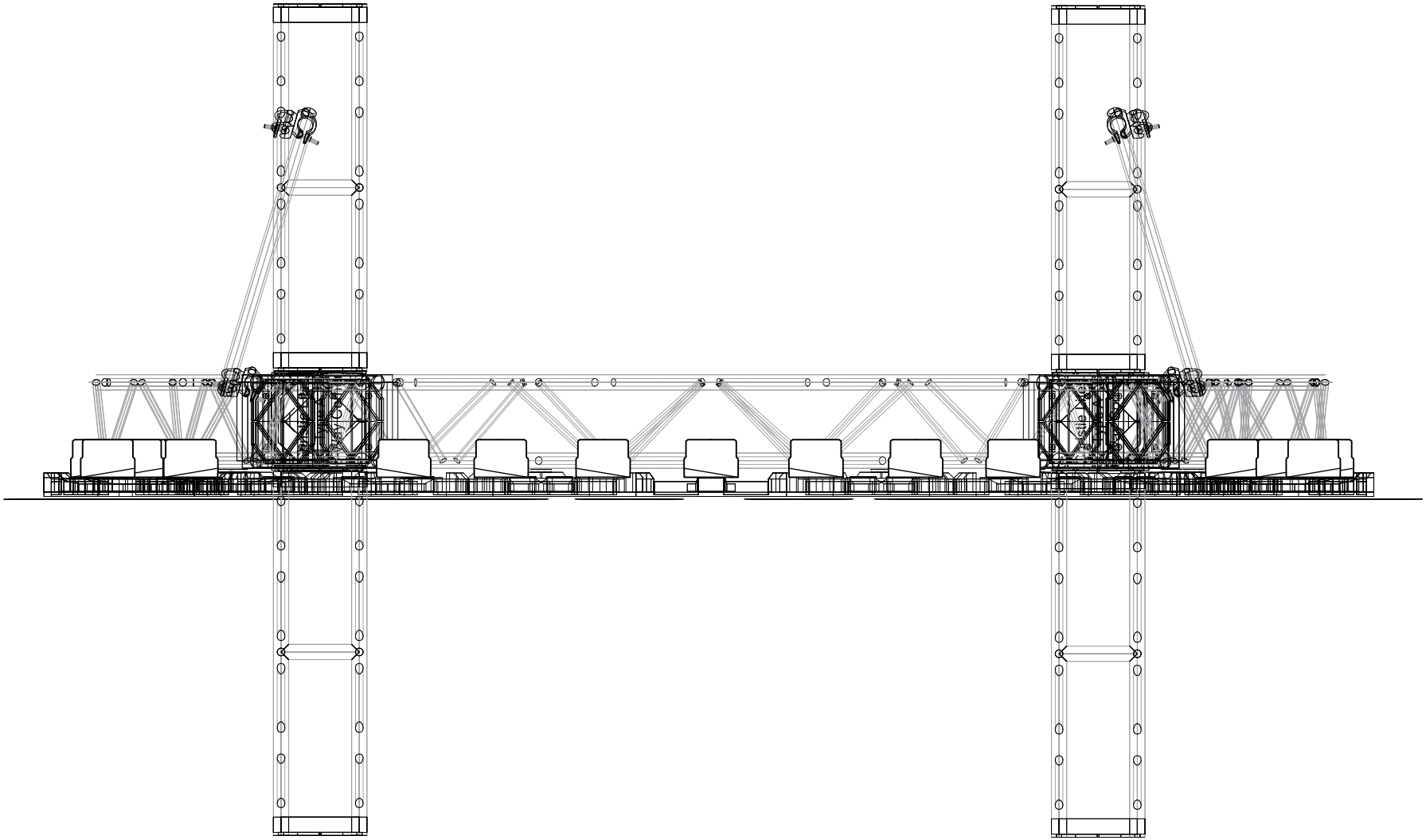
REFERENCE DRAWINGS



1

The PORTAL - ISO

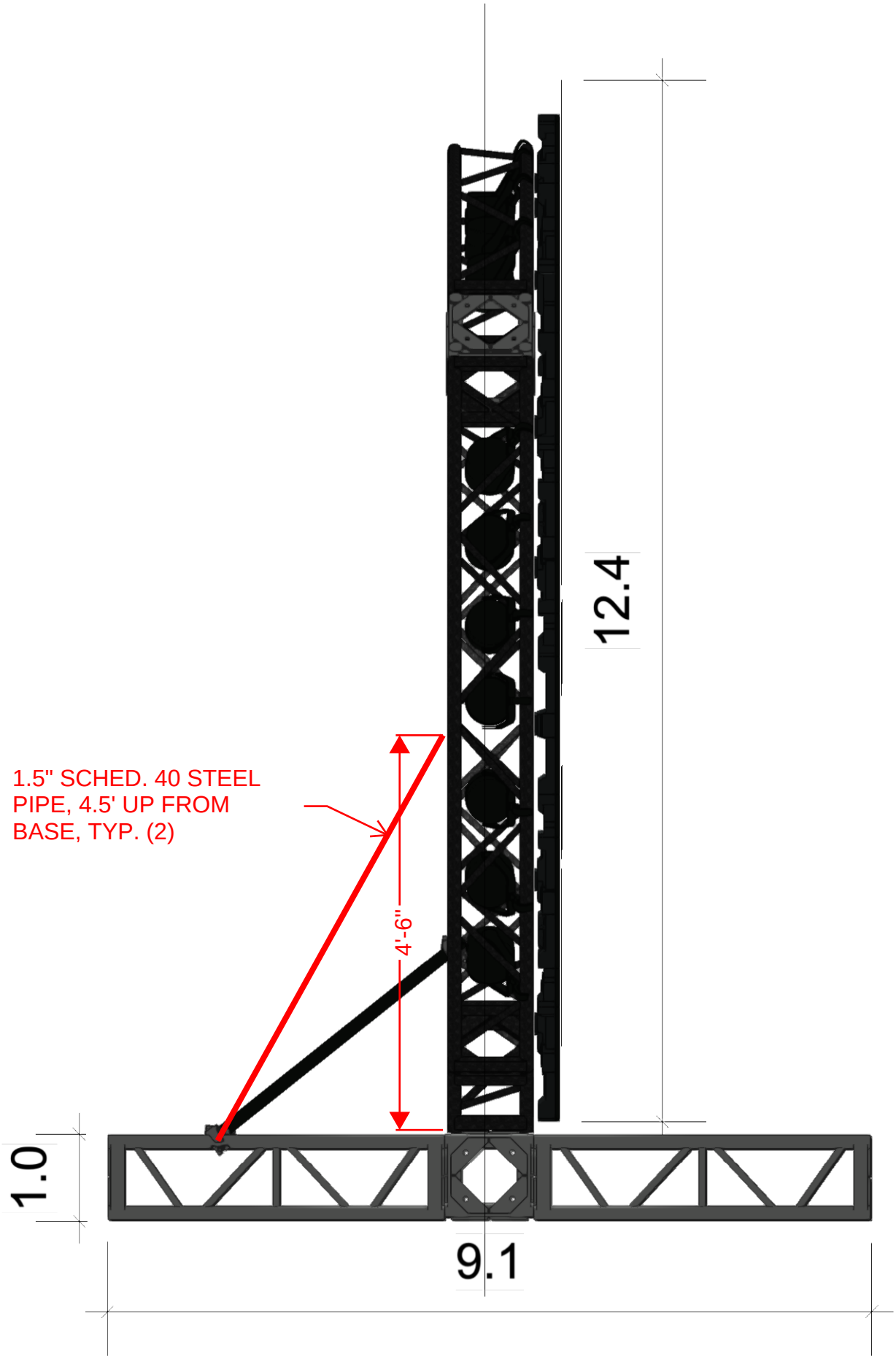
Scale: 1:25



1

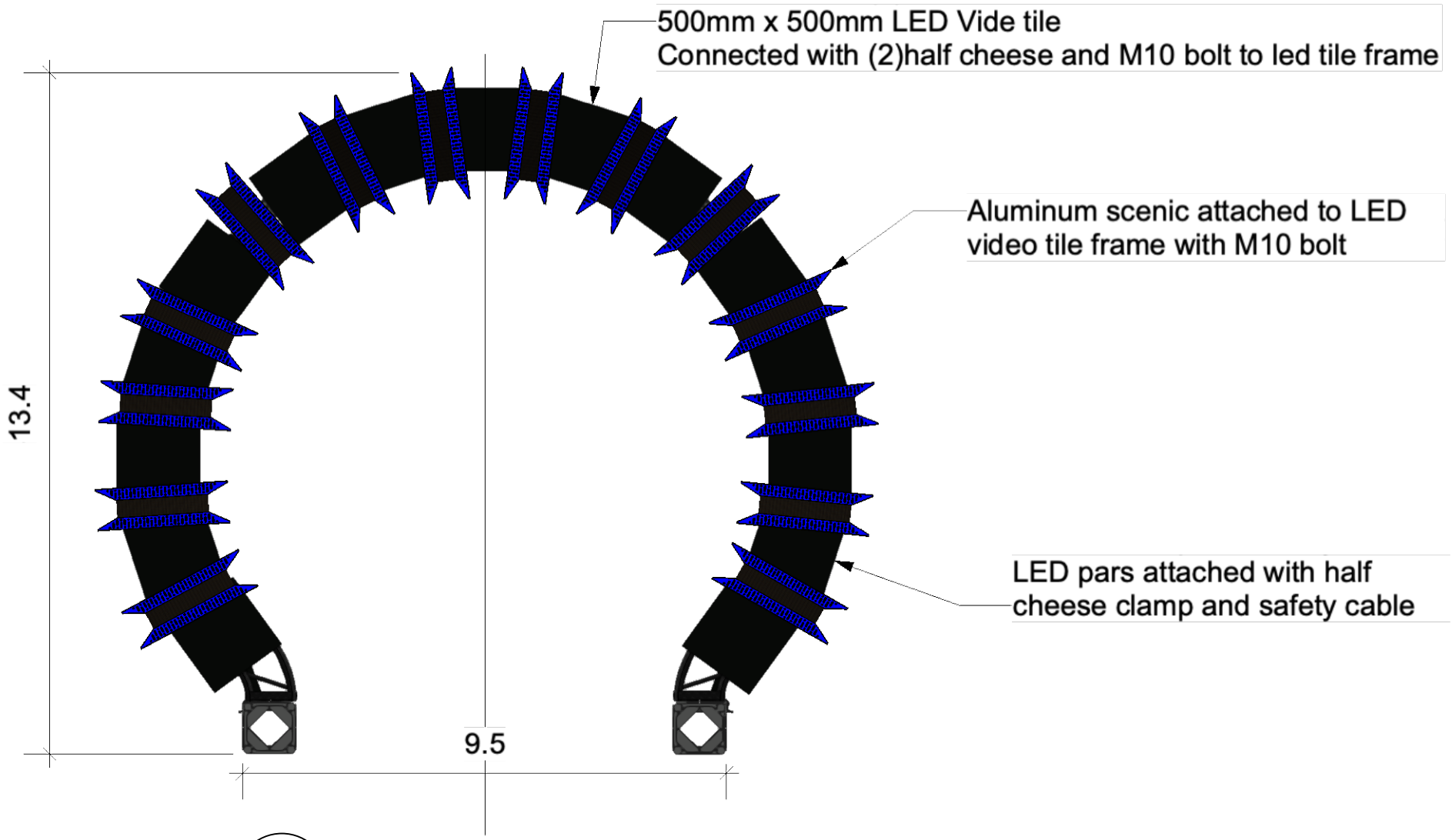
The PORTAL - TOP PLAN

Scale: 1:20



1 The PORTAL - Side

Scale: 1:20



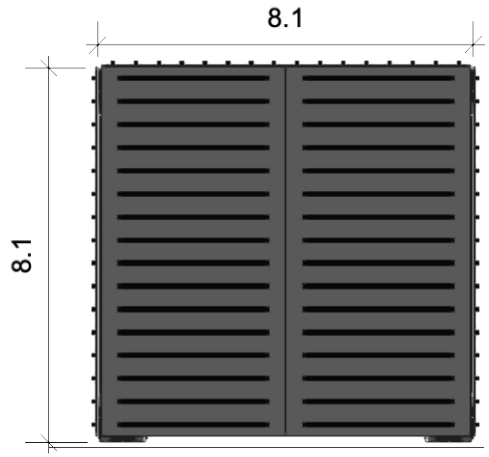
1 The PORTAL - Front

Scale: 1:35

1

The EQUBE - Truss with FacadeFront

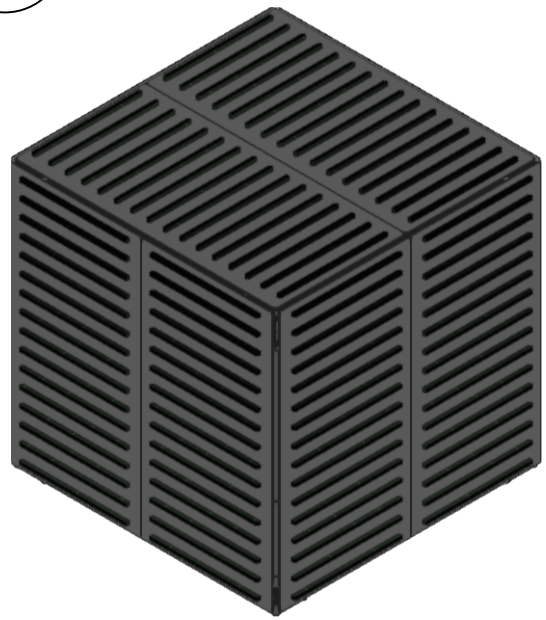
Scale: 1:50



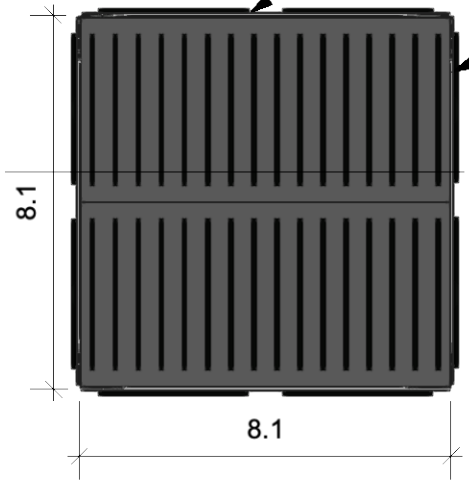
3

The EQUBE - Truss with Facade ISO

Scale: 1:50



4' x 8' plywood sheets are secured to truss with 2" pipe clamp and 5/8 bolt



LED Bars are affixed to 3/4" plywood with #8 1" wood screw.

2 brackets per bar

Each bracket is secured by a 4mm set screw onto channel in led bar housing

2

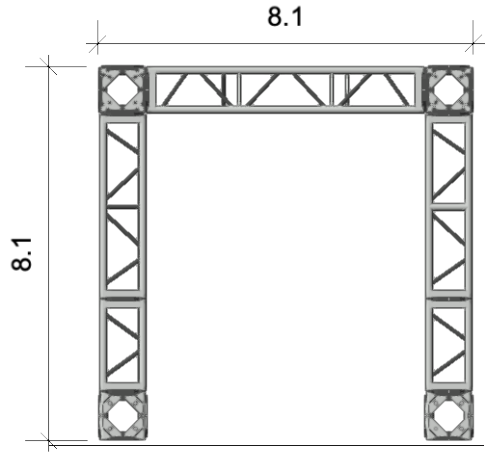
The EQUBE - Truss with Facade Top

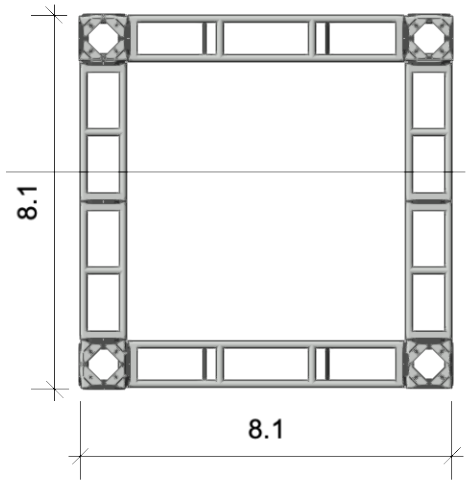
Scale: 1:50

1

The EQUBE - Truss Only Front

Scale: 1:50





2

The EQUBE - Truss Only Top Plan

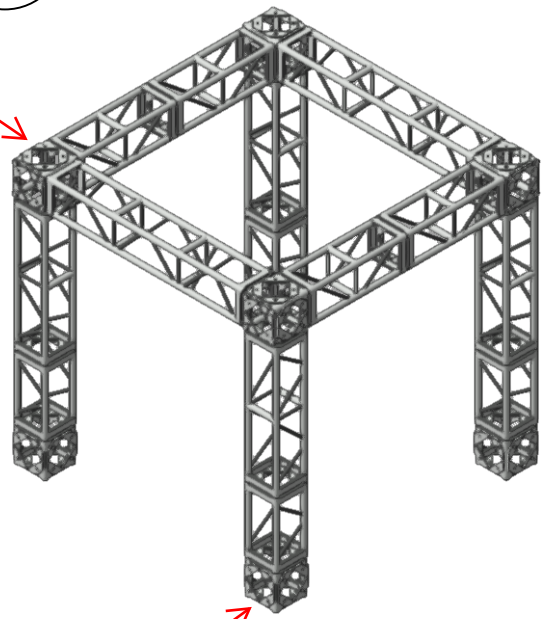
Scale: 1:50

3

The EQUBE - Truss Only ISO

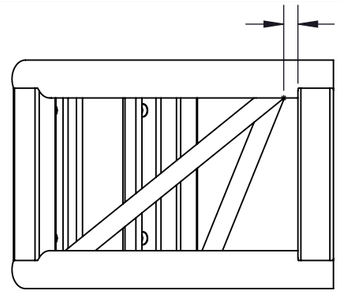
Scale: 1:50

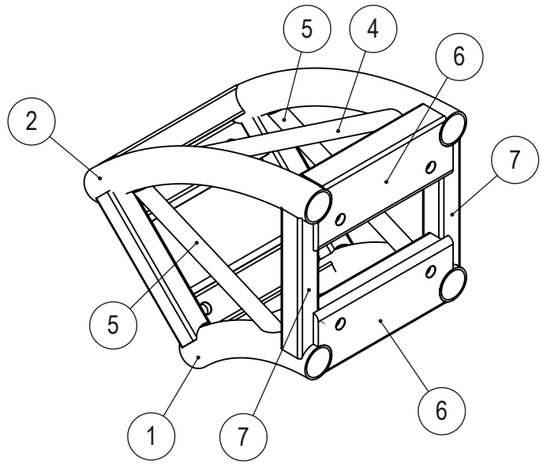
12" X 12" ALUMINUM PLATED BOX TRUSS

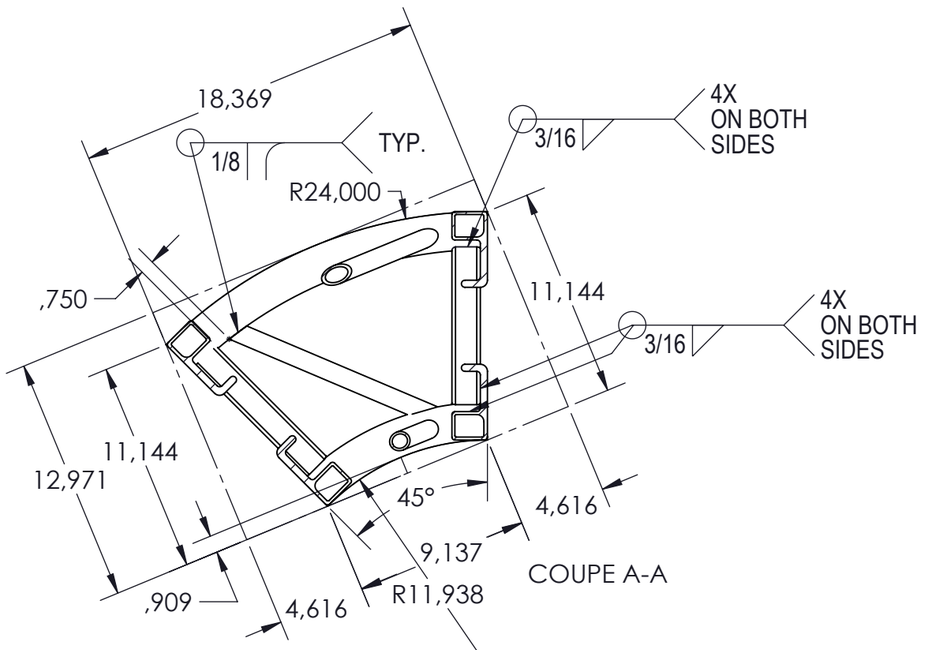


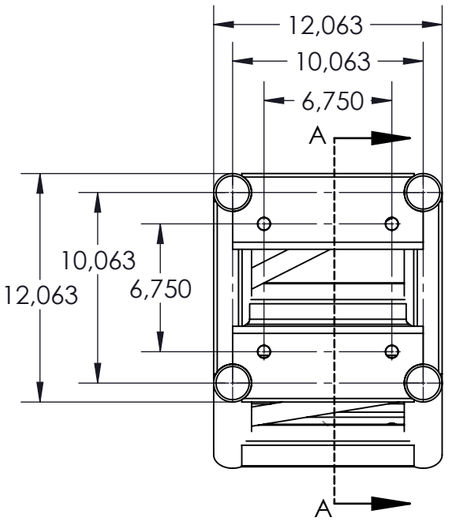
150# OF BALLAST REQUIRED AT EACH TOWER BASE, TYP. (4)

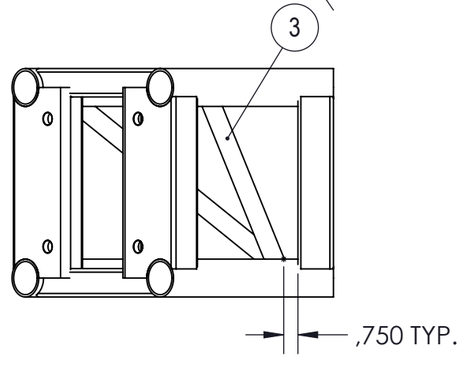
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	4890-CTRA-00-001	CURVED INNER MAIN CHORD	2
2	4890-CTRA-00-002	CURVED OUTTER MAIN CHORD	2
3	4890-CTRA-00-003	INNER BRACE	1
4	4890-CTRA-00-004	OUTTER BRACE	1
5	4890-CTRA-00-005	T&B BRACE	2
6	ZAX-0010	AXIOM CIRCULAR TRUSS 1212 x 2.0 OD	4
7	ZST-0015	BELT FOR CIRCULAR TRUSS 1212 x 1.9 OD	4











UNISSON structures

PART NUMBER: **4890-CTRA-00-000**

DESCRIPTION: ANGULAR SECTION TRUSS

SHEET TITLE: SHEET 1

PROJECT #: 4890

PROJECT DESCRIPTION: Ø26FT CIRCULAR TRUSS

CLIENT: APEX 1606

DRAFTSMAN:	CREATION DATE:
M.L.	14/03/2016
ENGIN. APPROB.	APPROB. DATE:
	16/03/2016

MATERIAL: Matériau <non spécifié>

SURFACE FINISH:

WEIGHT (lbs): 16.72

BOUNDING BOX DIMENSIONS (in):

BOUNDING BOX VOLUME (ft3 / m3):

SCALE: 1:8	REV: **A**
SHEET SIZE: 11 X 17	SHEET: 1 OF 1

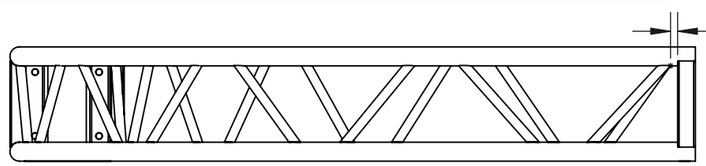
DIMENSIONS (U.O.S.): INCHES

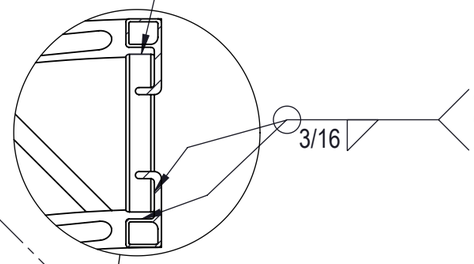
TOLERANCES (U.O.S.)
UNLESS OTHERWISE SPECIFIED:

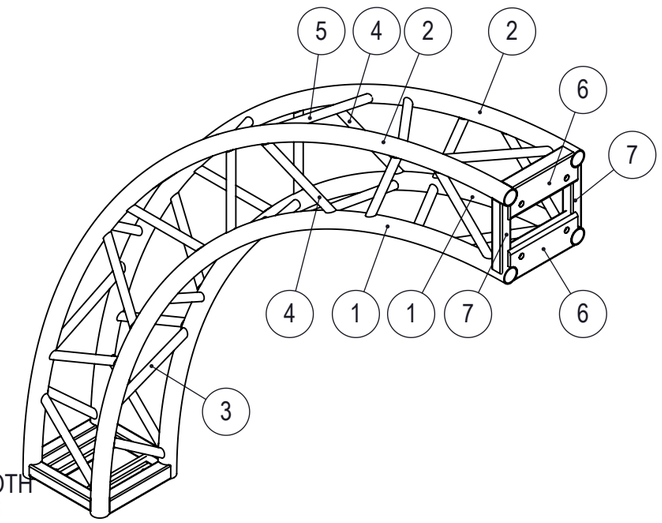
X : ±.1 X/X : ±1/32
X.X : ±0.050
X.XX : ±0.020 X° : ±.5°
X.XXX: ±0.005 X.X° : ±0.1°

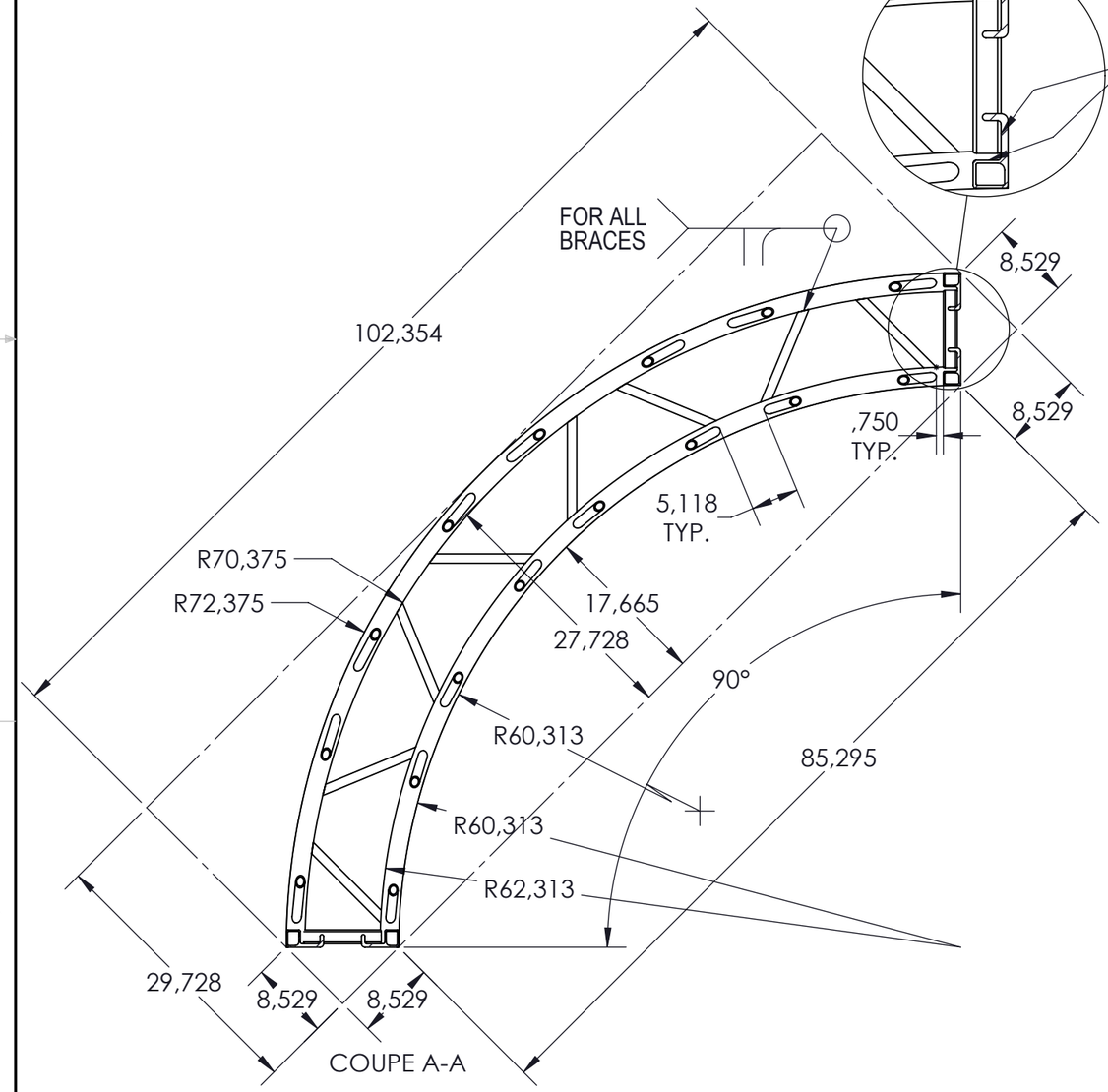
UNISSON structures
685 RANG DE LE RIVIÈRE NORD
SAINT-ROCH-DE-L'ACHIGAN
(QC) CANADA
J0K 3H0
T. 450-588-7477
F. 450-588-7478
RBQ #5668-5191-01

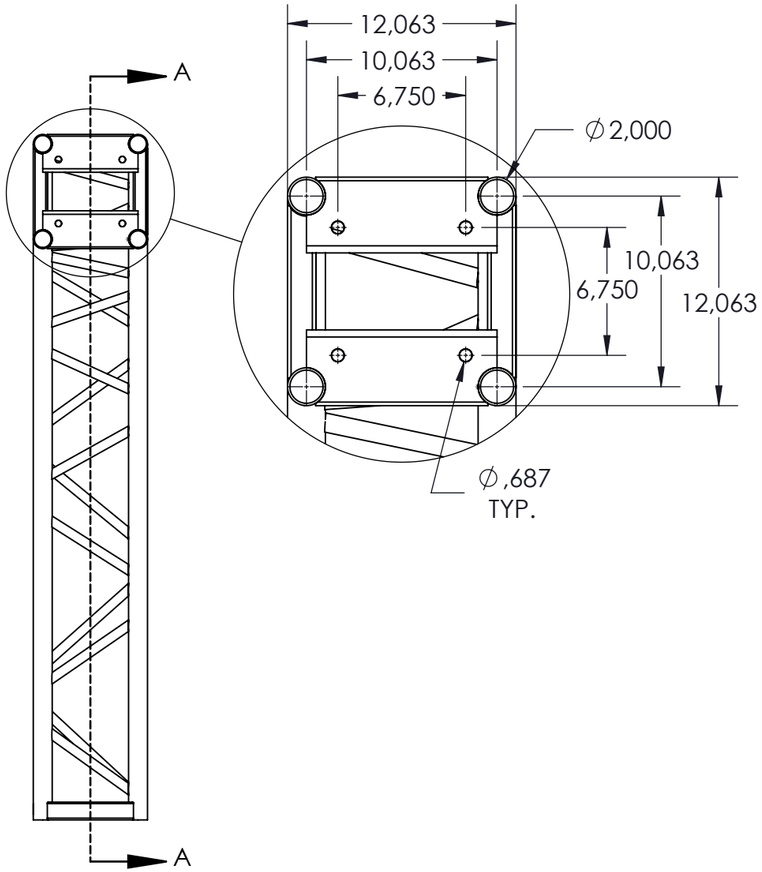
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	4890-CTRB-00-001	CURVED INNER MAIN CHORD	2
2	4890-CTRB-00-002	CURVED OUTTER MAIN CHORD	2
3	4890-CTRB-00-003	INNER BRACE	8
4	4890-CTRB-00-004	T&B BRACE	16
5	4890-CTRB-00-005	OUTTER BRACE	8
6	ZAX-0010	AXIOM CIRCULAR TRUSS 1212 x 2.0 OD	4
7	ZST-0015	BELT FOR CIRCULAR TRUSS 1212 x 1.9 OD	4











UNISSON structures

PART NUMBER: **4890-CTRB-00-000**	
DESCRIPTION: 90° SECTION BOLTED WITH ANCHOR PLATE	
SHEET TITLE: SHEET 1	
PROJECT #: 4890	
PROJECT DESCRIPTION: SYSTÈME PONT ROND	
CLIENT: 2030453 ALBERTA INC	
DRAFTSMAN: V.L	CREATION DATE: 19/04/2018
ENGIN. APPROB.	APPROB. DATE:
MATERIAL: Matériau <non spécifié>	
SURFACE FINISH:	
WEIGHT (lbs): 52.34	
BOUNDING BOX DIMENSIONS (in):	
BOUNDING BOX VOLUME (ft3 / m3):	
SCALE: 1:16	REV:
SHEET SIZE: 11 X 17	SHEET: 1 OF 1

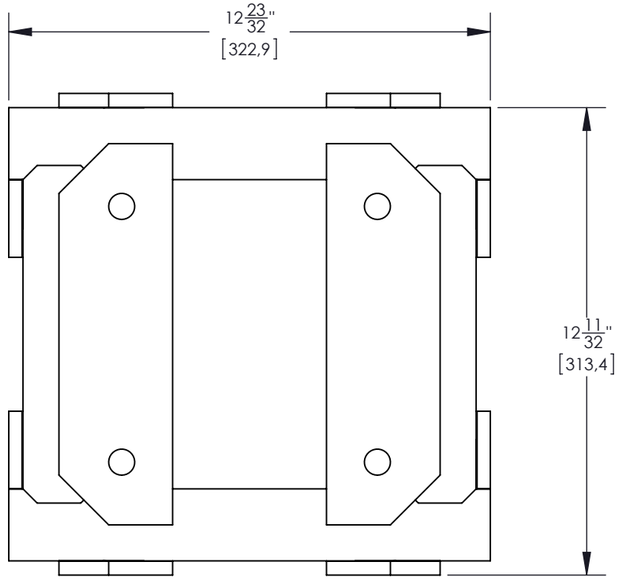
DIMENSIONS (U.O.S.): INCHES

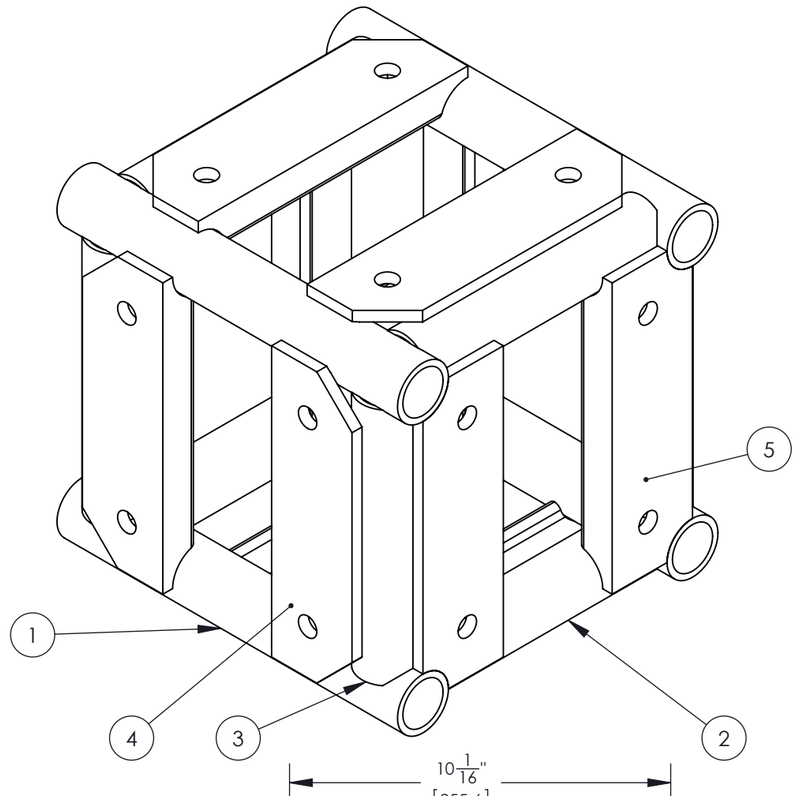
TOLERANCES (U.O.S.) UNLESS OTHERWISE SPECIFIED:

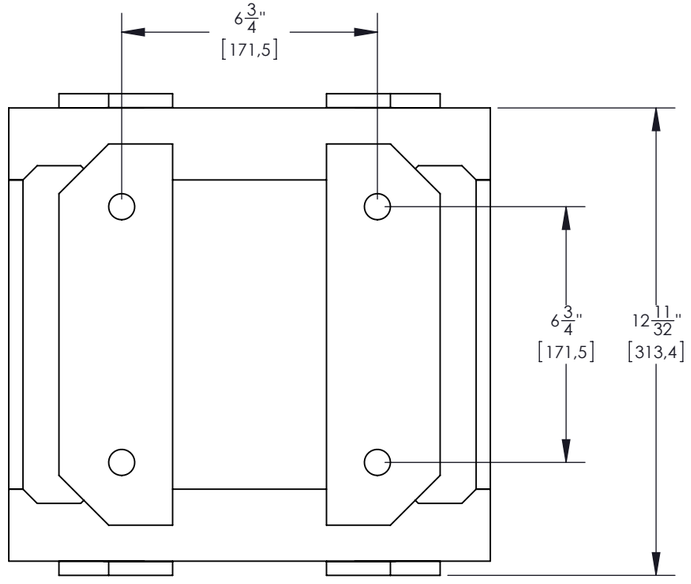
X : ±.1 X/X : ±1/32
X.X : ±0.050
X.XX : ±0.020 X° : ±.5°
X.XXX: ±0.005 X.X° : ±0.1°

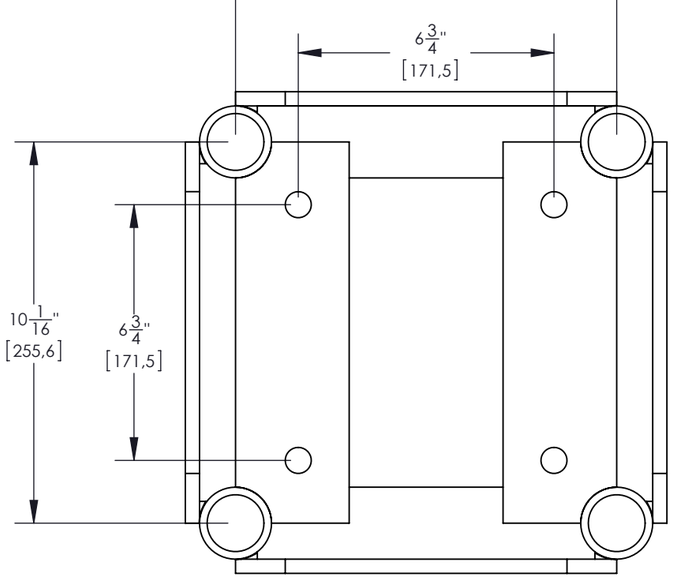
UNISSON structures
685 RANG DE LE RIVIÈRE NORD
SAINT-ROCH-DE-L'ACHIGAN
(QC) CANADA
J0K 3H0
T. 450-588-7477
F. 450-588-7478
RBQ #5668-5191-01

PRINTING DATE: 02/05/2018
FOLDER LOCATION : Z:\# CLIENTS (PROJETS)\2030453 ALBERTA INC. 0A THE PRGM\2017\4890 - SYSTÈME PONT ROND\SW\Assemblage\

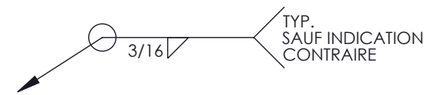








ITEM	QTE	DWG	DESCRIPTION	MAT
1	4	S0000855	TUYAU 1.9" OD X .200" (1-1/2 CED 80)	6061-T6
2	4	S0000243	TUYAU 1.9" OD X .145" (1-1/2 CED 40)	6061-T6
3	4	S0000856	TUYAU 1.9" OD X .145" (1-1/2 CED 40)	6061-T6
4	8	S0000044	EXTRUSION 3/8" X 3"	6061-T6
5	4	S0000270	EXTRUSION 3/8" X 3"	6061-T6



REV.	DATE	DESCRIPTION	BY

TOLERANCES

-ANGULAR: ±1/2°
-FRACTIONAL: ±1/16"[1.6mm]
-2 DECIMALS: ± .010" [0.25mm]
-3 DECIMALS: ± .005" [0.13mm]

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PROJECT
--

SUBJECT
CEC-1212-690B

WEIGHT
26.25 lbs

JIG
--

GO NO-GO
--

WORKING ORDER

QUANTITY

PROJECT MANAGER	DRAFTMAN	DESIGNER	ENGINEER
--	**P.BRETON**	**S.BOIVIN**	--

CREATION DATE	SCALE	SIZE	PAGE
2013-02-28	**N.T.S.**	**B**	**1/**

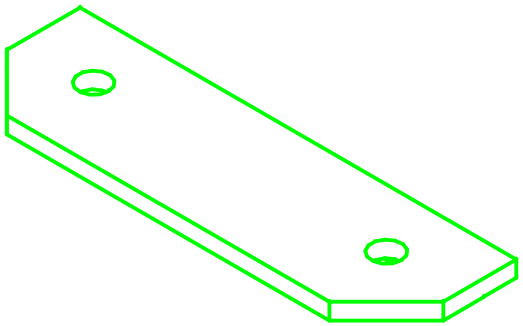
APPROUVED BY

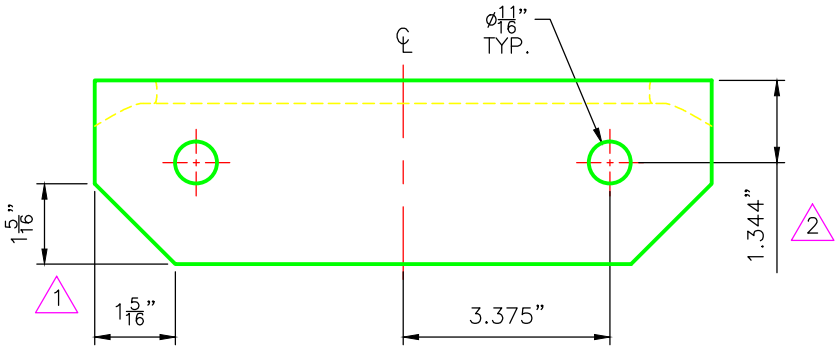
DRAWING
CEC-1212-690B

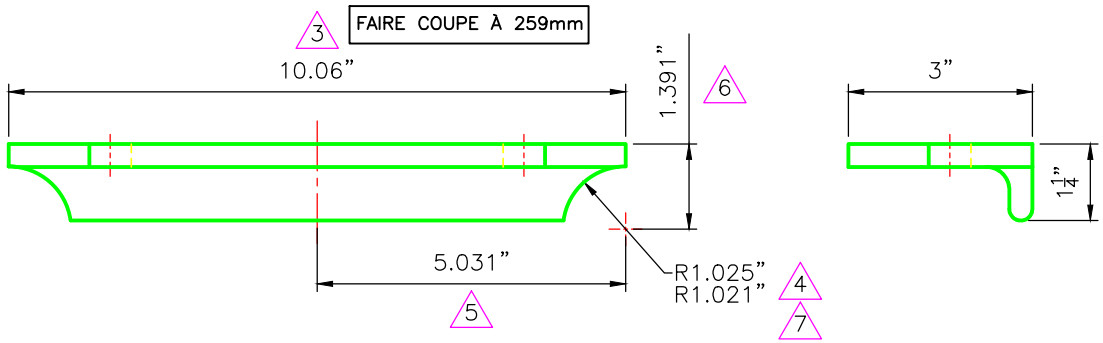
REVISION
--

PRINT DATE:

Y:\Arcofab\ARCOFAB\DESSIN\TRUSS\CUBE\1212\CEC-1212-B\







ITEM	QTE	DWG	DESCRIPTION	MAT.
--	--	P0000017	EXTRUSION 3/8" x 3"	6061-T6

NO	A	M	J	REVISION	PAR
7	02	09	13	TOLERANCES MODIFIED	B.B.
6	02	09	13	DIM. 1.375" REPLACED BY 1.391"	B.B.
5	02	05	21	DIM. 5.000" REPLACED BY 5.031"	B.B.
4	02	05	21	TOLERANCES MODIFIED	B.B.
3	02	05	21	DIM. 10.00" REPLACED BY 10.06"	B.B.
2	02	05	21	DIM. 1.375" REPLACED BY 1.344"	B.B.
1	02	05	21	DIM. 1 13/32" REPLACED BY 1 5/16"	B.B.

TOLERANCE:

- ANGLE ± ½°
- FRACTION ± 1/32" [0,8mm]
- 2 DÉCIMALES ± .005" [0,13mm]
- 3 DÉCIMALES ± .002" [0,05mm]

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45 RUE DE ROTTERDAM, ST-AUGUSTIN, QUEBEC, CANADA, G3A 1S8
Tél: (418) 878-2000 Fax: (418) 878-1201

SUJET

SIDE PLATE FOR 12" CORNER BLOCK 2" & 1.9"

PROJET

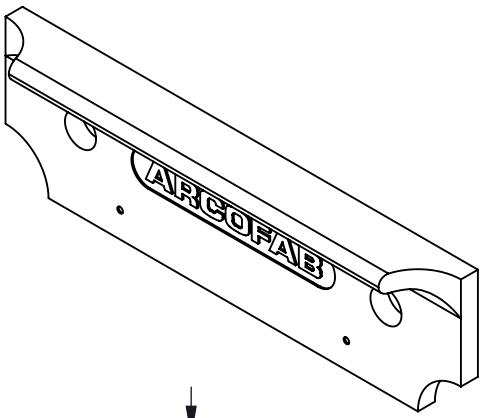
QUANTITÉ

GABARIT

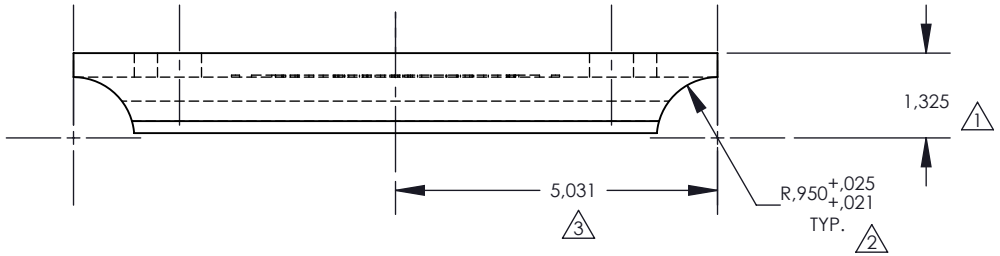
EMPLACEMENT

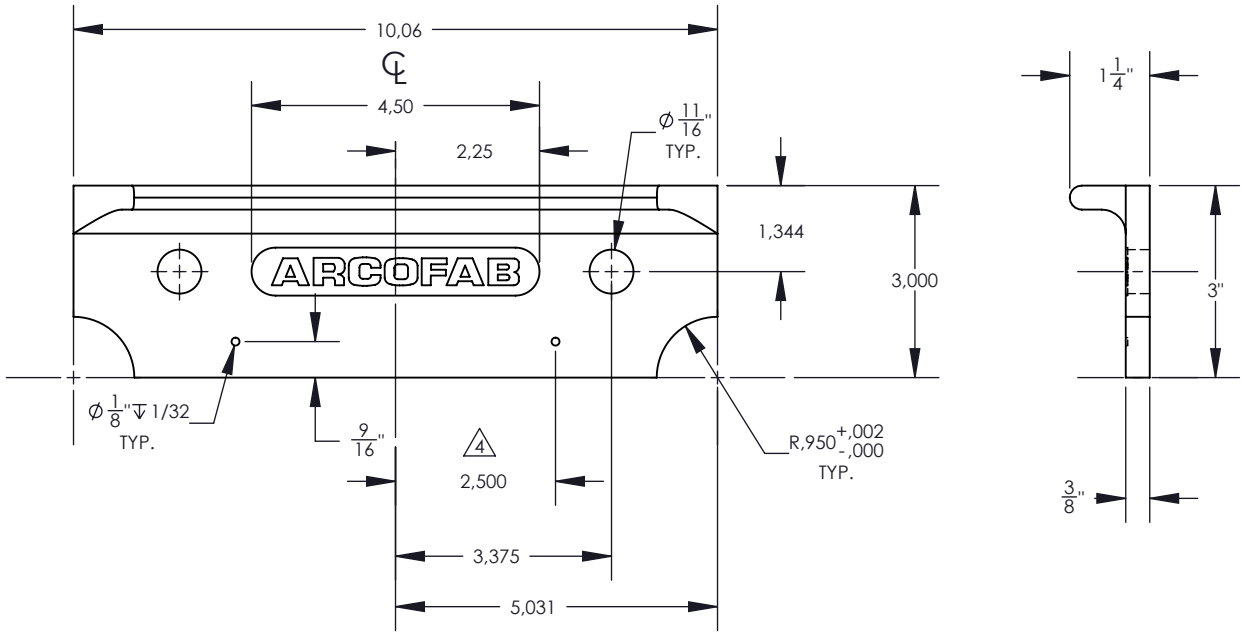
DATE	INGÉNIEUR		FEUILLE
02/01/29	--		--
DESSINÉ PAR	**ÉCHELLE**	**POIDS**	**FORMAT**
B. BOILARD	N.A.E.		B
VÉRIFIÉ PAR	**Dessin**	**FINITION**	**REVISION**
	S0000044	--	7

ITEM	QTY	# ARCO	DESCRIPTION	MAT.
1	1	P0000017	EXTRUSION L 3" X 1-1/4" X 3/8"	6061-T6



FAIRE COUPE
À 259mm





4	2013-02-28	CHANGE HOLE POSITION	PB
3	2013-01-04	ADD LOGO, CHAMFER REMOVED, 1/8" HOLES ADDED	PB
2	2006-05-10	TOLERANCE MODIFIED	AB
1	2003-08-25	DIM 1.375" REPLACED BY 1.325"	AB

REVISION

TOLÉRANCES

-ANGULAIRE: ±1/2°
-FRACTIONNNEL: ±1/32"[0.80mm]
-2 DÉCIMALES: ± .010" [0.25mm]
-3 DÉCIMALES: ± .005" [0.13mm]

AVIS

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PROJET
--

SUJET
END PLATE FOR 12" CORNER BLOCK/ADAPT 1.9" OD

POIDS
1.3 lbs

GABARIT	GNG
--	--

BON DE TRAVAIL	QUANTITÉ

GÉRANT DE PROJET	DESSINATEUR	CONCEPTEUR	INGÉNIEUR
--	**P.BRETON**	**S.BOIVIN**	--

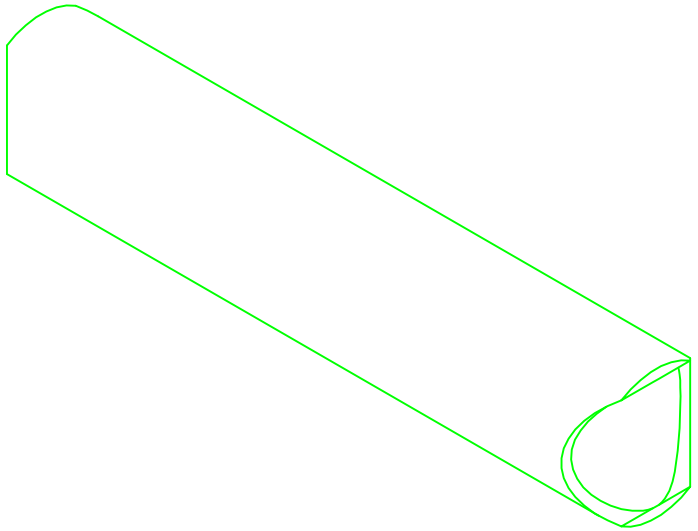
DATE	ÉCHELLE	FORMAT	PAGE
2013-01-04	**N.T.S.**	**A**	/

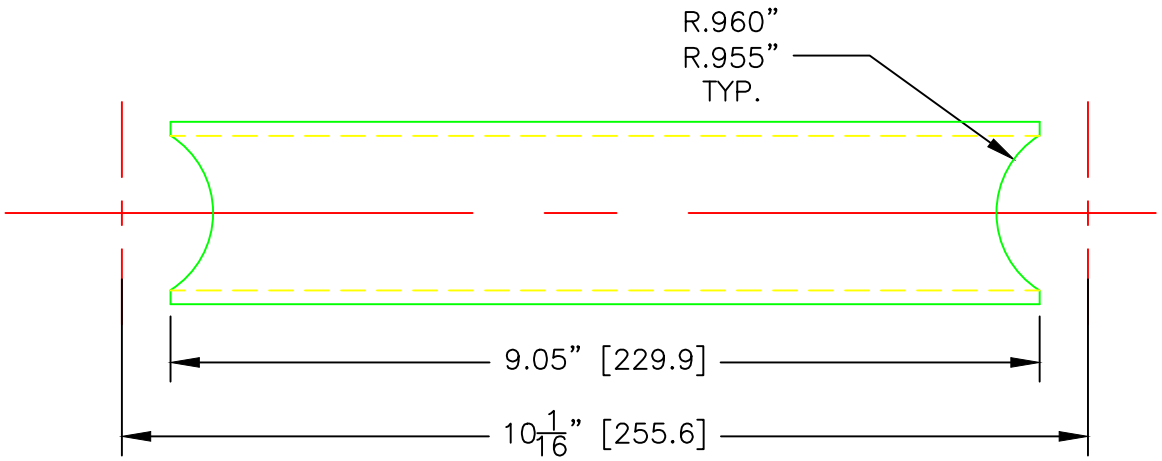
APPROUVÉ PAR	DESSIN	RÉVISION
	S0000270_004	**4**

DATE D'IMPRESSION:

Y:\Arcofab\ARCOFAB\DESSIN\TRUSS BASIC ELEMENT\

FAIRE COUPE À 233mm





ITEM	QTE	DWG	DESCRIPTION
1	--	P0000010	TUYAU ø1.9" x .145"

NO	A	M	J	REVISION

TOLERANCE:

- ANGLE ± ½°
- FRACTION ± 1/16" [1.58mm]
- 2 DÉCIMALES ± .005" [0,13mm]
- 3 DÉCIMALES ± .002" [0,05mm]

AVIS

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WWW.ARCOFAB.COM

SUJET: S0000243

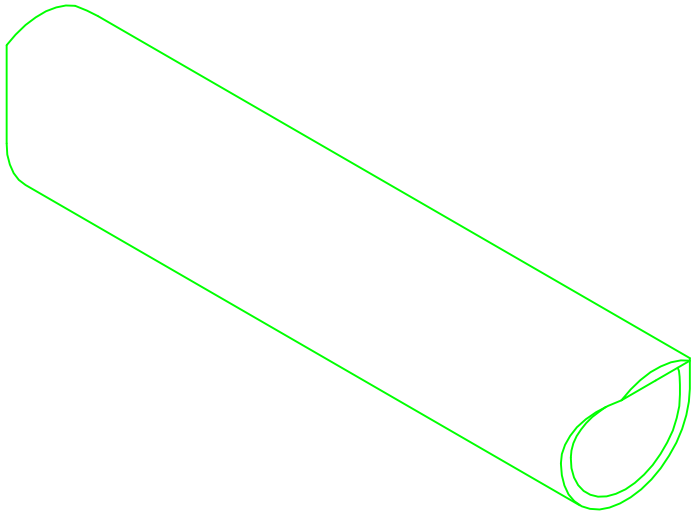
PROJET: --

QUANTITÉ: --

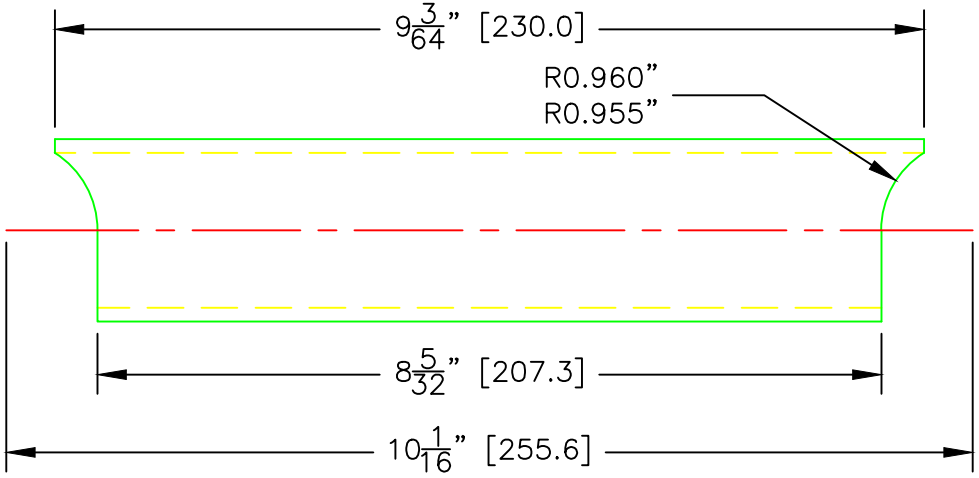
GABARIT: --

EMPLACEMENT: --

DATE	INGÉNIEUR		FEUILLE
05/02/24	--		--
DESSINÉ PAR	**ÉCHELLE**	**POIDS**	**FORMAT**
A.BUSSIÈRES	1/2"=1"	--	A
VÉRIFIÉ PAR	**DESSIN**	**DISQUETTE**	**REVISION**
--	S0000243	--	--



FAIRE COUPE À 233mm



ITEM	QTY	DWG	DESCRIPTION
1	--	P0000010	TUBE ø1.9 X .145"

NO	Y	M	D	REVISION

TOLERANCES:

– ANGULAR	± 1/2°
– FRACTIONAL	± 1/16" [0,80mm]
– 2 DECIMAL	± .005" [0,25mm]
– 3 DECIMAL	± .005" [0,13mm]

ARCOFAB
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Tél: (418) 878-2000 Fax: (418) 878-1201

SUBJECT
S0000856

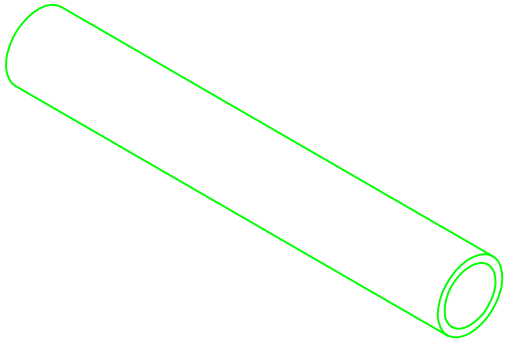
PROJECT
--

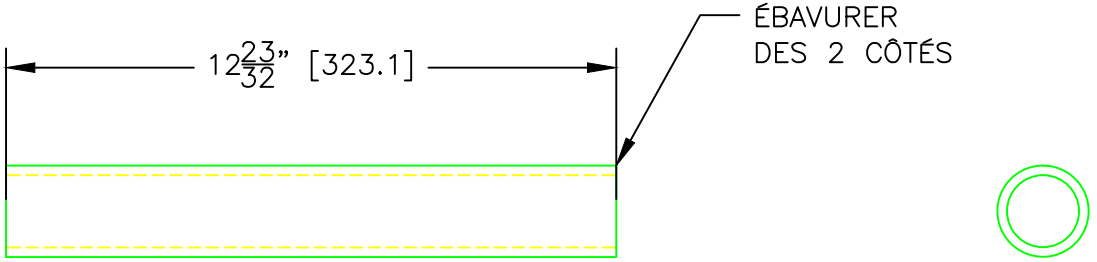
QUANTITY
--

TEMPLATE
--

LOCATION
--

DATE	ENGINEER		SHEET
08-04-21	--		--
DRAWING BY	**SCALE**	**WEIGHT**	**SIZE**
A.ROSS	1/2"=1"	--	A
CHECK BY	**DRAWING**	**FLOPPY**	**REVISION**
--	S0000856	--	--





ITEM	QTY	DWG	DESCRIPTION
1	--	P0000015	TUBE ø1.9 X .200"

NO	Y	M	D	REVISION

TOLERANCES:

– ANGULAR	± 1/2°
– FRACTIONAL	± 1/16" [0,80mm]
– 2 DECIMAL	± .005" [0,25mm]
– 3 DECIMAL	± .005" [0,13mm]

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SUBJECT
S0000855

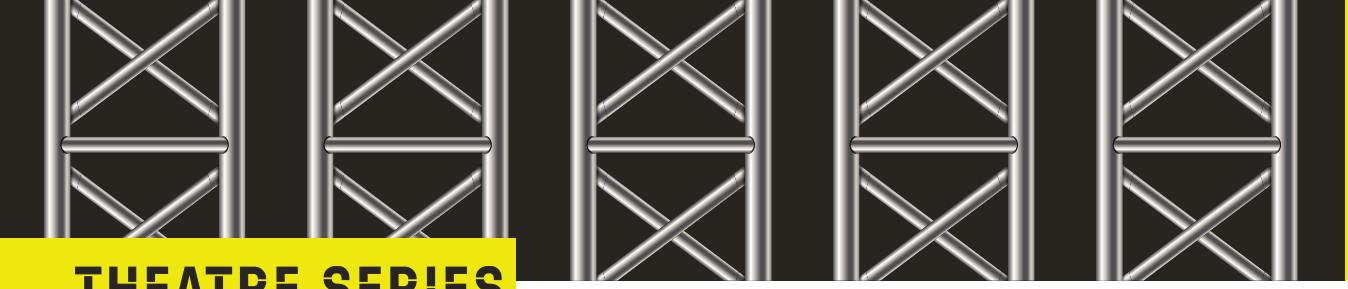
PROJECT
--

QUANTITY
--

TEMPLATE
--

LOCATION
--

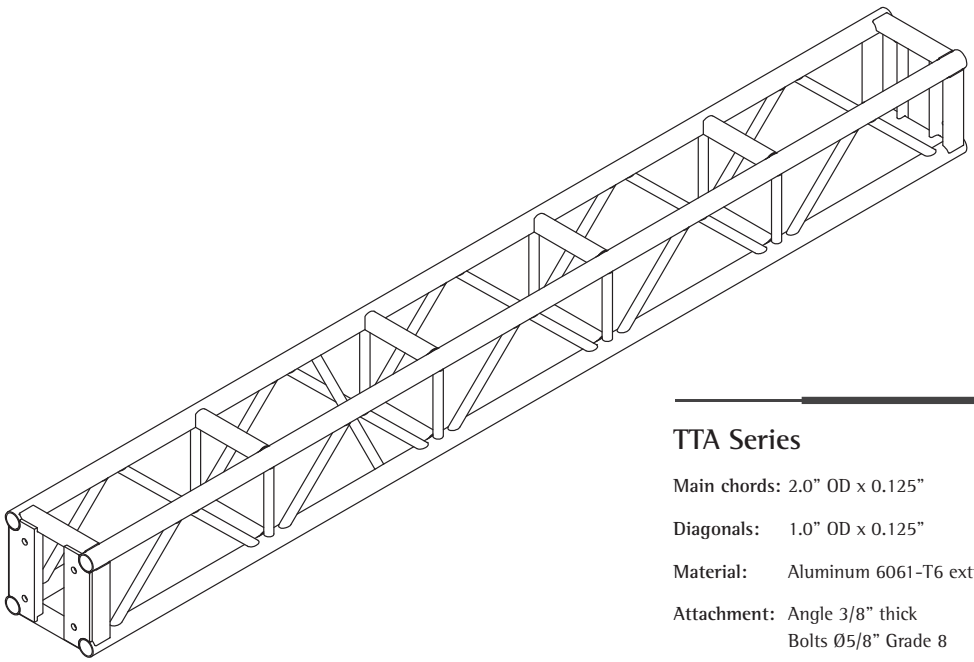
DATE	ENGINEER		SHEET
08-04-21	--		--
DRAWING BY	**SCALE**	**WEIGHT**	**SIZE**
A.ROSS	1/4"=1"	--	A
CHECK BY	**DRAWING**	**FLOPPY**	**REVISION**
--	S0000855	--	--



THEATRE SERIES

1212 LIGHT DUTY TRUSS PLATED

TTA-1212-B
TTC-1212-B



TTA Series

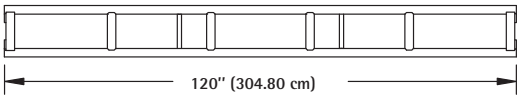
Main chords: 2.0" OD x 0.125"

Diagonals: 1.0" OD x 0.125"

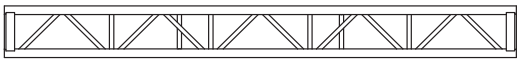
Material: Aluminum 6061-T6 extrusions

Attachment: Angle 3/8" thick
Bolts Ø5/8" Grade 8

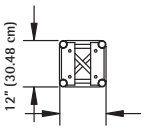
Fabrication: Fabricated by certified welders



Plan



Elevation



End view

TTC Series (option)

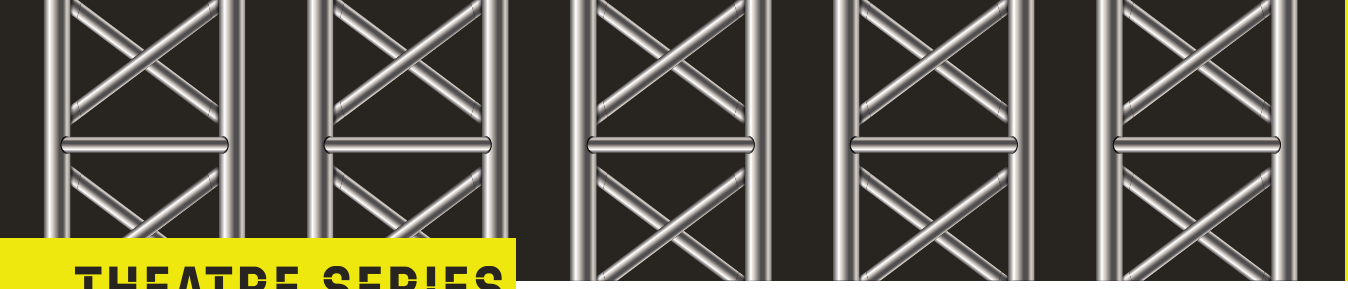
Main chords: 1.9" OD x 0.145"

Diagonals: 1.0" OD x 0.125"

Material: Aluminum 6061-T6 extrusions

Attachment: Angle 3/8" thick
Bolts Ø5/8" Grade 8

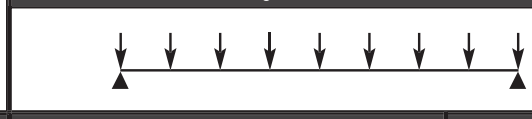
Fabrication: Fabricated by certified welders

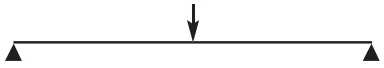


1212 LIGHT DUTY TRUSS PLATED

TTA-1212-B
TTC-1212-B

ALLOWABLE LOAD DATA





Span		Uniformly distributed load: Load				Uniformly distributed load: Deflexion		Concentrated load: Load		Concentrated load: Deflexion	
ft	*(m)*	lb/ft	*(kg/m)*	lb	*(kg)*	in	*(mm)*	lb	*(kg)*	in	*(mm)*
10	*(3.05)*	412.0	*(612.9)*	4120	*(1868)*	0.18	*(4.6)*	2320	*(1052)*	0.18	*(4.6)*
20	*(6.10)*	115.5	*(171.8)*	2310	*(1048)*	0.65	*(16.5)*	1150	*(522)*	0.54	*(13.7)*
30	*(9.15)*	47.7	*(70.9)*	1430	*(649)*	1.36	*(34.5)*	710	*(322)*	1.13	*(28.7)*
40	*(12.20)*	24.0	*(35.7)*	960	*(435)*	2.29	*(58.2)*	480	*(218)*	1.94	*(49.3)*

Notes

- Data presented in this chart apply to trusses built after January 2002.
- Trusses must be loaded symmetrically on each side.
- All loads must be applied at, or as close as possible to, node points (see General Section).
- Deflexions are based on the rigidity of the trusses and do not include possible movement between trusses due to attachment tolerance.
- Data are valid for inside use only.
- Data are only valid for static loads and spans with two supporting points (span must be supported at each end). If dynamic loads or more supporting points are applied, contact a professional engineer or Unisson.

TTA-1212-B Main chords: 2.0" OD x 0.125" Diagonals: 1.0" OD x 0.125"				TTC-1212-B (option) Main chords: 1.9" OD x 0.145" Diagonals: 1.0" OD x 0.125"	
Item	Weight lb *(kg)*	◄ Description ►		Item	Weight lb *(kg)*
TTA-1212-120B	61 *(27.7)*	10' - 12" x 12"		TTC-1212-120B	65 *(29.5)*
TTA-1212-096B	51 *(23.1)*	8' - 12" x 12"		TTC-1212-096B	54 *(24.5)*
TTA-1212-060B	36 *(16.3)*	5' - 12" x 12"		TTC-1212-060B	38 *(17.2)*
TTA-1212-048B	31 *(14.1)*	4' - 12" x 12"		TTC-1212-048B	33 *(15.0)*
CEA-1212-690B	26 *(11.8)*	6-WAY CORNER*		CEC-1212-690B	27 *(12.2)*

- Other lengths and accessories are available if requested.

* When corners are loaded on two adjacent faces, reduce the capacity of the trusses to 50%.

Appendix B

CALCULATIONS

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Canal Convergence

Event Date & Location: November 5-22, 2024: Scottsdale, AZ

Codes and Referenced Standards

- 2021 International Building Code
- Aluminum Design Manual, 2020 ed.
- American Society of Civil Engineers 7-16 (ASCE 7-16) *"Minimum Design Loads for Buildings and Other Structures"*
- American Society of Civil Engineers 37-14 (ASCE 37-14) *"Design Loads on Structures During Construction"*
- ANSI E 1.21-2020 *"Temporary Structures Used for Technical Production of Outdoor Entertainment Events"*
- ANSI E 1.2-2021 *"Manufacture and Use of Aluminum Trusses and Towers"*

Project Description

(2) Temporary outdoor truss structures: (1) 8 ft x 8 ft x 8 ft cube structure with wood cladding and (1) circular structure with LED tiles.

Assumptions

-Structures are up for less than (6) weeks per installation
-Wind loads govern over seismic loads

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General Design - Applies To All Assemblies

Steel/Aluminum Factors of Safety

Note: The following factors/design criteria applies to all assemblies and will be used throughout design package (U.N.O).

AISC Typical Factors of Safety (U.N.O.): $\Omega_{y.AISC} := 1.67$ $\Omega_{r.AISC} := 2.0$

ADM Typical Factors of Safety (U.N.O.): $\Omega_{y.ADM} := 1.65$ $\Omega_{r.ADM} := 1.95$

ASTM A36 Mechanical Properties

Yield Strength: $F_{y.A36} := 36 \cdot ksi$

Tensile Strength: $F_{u.A36} := 58 \cdot ksi$

ASTM A572 Mechanical Properties

Yield Strength: $F_{y.A572} := 50 \cdot ksi$

Tensile Strength: $F_{u.A572} := 65 \cdot ksi$

ASTM A500 GR. B (Rectangular) Mechanical Properties

Yield Strength: $F_{y.A500.rect} := 46 \cdot ksi$

Tensile Strength: $F_{u.A500.rect} := 58 \cdot ksi$

ASTM A500 GR. B (Round) Mechanical Properties

Yield Strength: $F_{y.A500.rd} := 42 \cdot ksi$

Tensile Strength: $F_{u.A500.rd} := 58 \cdot ksi$

ASTM A992 Mechanical Properties

Yield Strength: $F_{y.A992} := 50 \cdot ksi$

Tensile Strength: $F_{u.A992} := 65 \cdot ksi$

Grade 8 Bolt Mechanical Properties

Tensile Strength of Bolt: $F_{u.bolt} := 150 \cdot ksi$

Weld (Steel) Mechanical Properties

Weld Strength: $F_{weld} := 70 \cdot ksi \cdot 0.6 = 42.00\ ksi$

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6061-T6 Mechanical Properties	Unwelded	Welded
Tension Ultimate Stress:	$F_{tu} := 38 \cdot ksi$	$F_{tuw} := 24 \cdot ksi$
Tension Yield Stress:	$F_{ty} := 35 \cdot ksi$	$F_{tyw} := 15 \cdot ksi$
Compression Yield Stress:	$F_{cy} := 35 \cdot ksi$	$F_{cyw} := 15 \cdot ksi$
Shear yield stress:	$F_{sy} := 0.6 \cdot F_{ty} = 21.00\ ksi$	$F_{syw} := 0.6 \cdot F_{tyw} = 9.00\ ksi$
Ultimate shear stress:	$F_{su} := 24 \cdot ksi$	$F_{suw} := 15 \cdot ksi$
Tension coefficient:	$k_t := 1.0$	$k_{tw} := 1.0$

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Seismic Loads - Per ASCE ASCE 7-16 (Chapter 12/15)

Location

4420 North Scottsdale Road, Scottsdale, Arizona, 85251

Elevation	1274 ft with respect to North American Vertical Datum of 1988 (NAVD 88)
Lat:	33.500748
Long:	-111.926525
Standard:	ASCE/SEI 7-16
Risk Category:	II
Soil Class:	D - Default (see Section 11.4.3)

Seismic

S_S	0.191
S_1	0.067
F_a	1.6
F_v	2.4
S_{MS}	0.306
S_{M1}	0.161
S_{DS}	0.204
S_{D1}	0.107
T_L	6
PGA	0.084
PGA_M	0.135
F_{PGA}	1.6
I_e	1
C_v	0.7
Seismic Design Category	B

Site coefficients per ASCE 7-16, Site Class D assumed

Mapped MCE, 5% damped, spectral response, acceleration parameter at short periods: $S_S := .191$

Mapped MCE, 5% damped, spectral response, acceleration parameter at 1s: $S_1 := .067$

Design 5% damped, spectral response, acceleration parameter at short periods: $S_{DS} := .204$

Design 5% damped, spectral response, acceleration parameter at 1s: $S_{D1} := .107$

$$Consider\_seismic_{SX1} := \left| \begin{array}{l} \text{if } S_1 < 0.4 \\ \quad \text{“NO”} \\ \text{else} \\ \quad \text{“YES”} \end{array} \right| = \text{“NO”}$$

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Wind Loads - Per ASCE 7-16 and ASCE 37-14

Ultimate wind speed (LRFD): $V_u := 101$ mph

Service level wind speed (ASD): $V_s := \sqrt{V_u^{\,2} \cdot 0.6}$ $V_s = 78.23$ mph

HWAP service level wind speed (ASD): $V_{hwap} := 40$ mph

Exposure category (service): $Exp_s :=$ C

Exposure category (HWAP): $Exp_{hwap} :=$ C

Gust effect factor: $G_w := 0.85$

Topographic factor: $K_{zt} := 1.0$

Ground elevation: $z_g := 1274 \cdot ft$

Ground elevation factor: $K_e := e^{-0.0000362 \cdot \frac{z_g}{ft}} = 0.95$

ASCE 37-14 Reduction Factor

Construction Period	Factor
Less than six weeks	0.75
From six weeks to one year	0.8
From one to two years	0.85
From two to five years	0.9

Reduction coefficient for temporary structure: $red :=$ 0.75

Service level (ASD) wind speed for design of temporary structure: $V_{temp\_service} := V_s \cdot red$ $V_{temp\_service} = 58.68$ mph

Ultimate level (LRFD) wind speed for design of temporary structure: $V_{temp\_ultimate} := V_u \cdot red$ $V_{temp\_ultimate} = 75.75$ mph

NOTE: Per ASCE 7-16, ultimate wind speeds are reduced by a factor of 0.6 in all service level (ASD) load combinations found in Section 2.4. Service level wind speeds are the design wind speeds that should be monitored.

$$Spline(M,x,y) := \left\| \begin{array}{l} x_1 \leftarrow \text{submatrix}(M, \text{ORIGIN}+1, \text{rows}(M)-1+\text{ORIGIN}, \text{ORIGIN}, \text{ORIGIN}) \\ y_1 \leftarrow (\text{submatrix}(M, \text{ORIGIN}, \text{ORIGIN}, \text{ORIGIN}+1, \text{cols}(M)-1+\text{ORIGIN}))^{\mathrm{T}} \\ Mxy \leftarrow \text{submatrix}(M, \text{ORIGIN}+1, \text{rows}(M)-1+\text{ORIGIN}, \text{ORIGIN}+1, \text{cols}(M)-1+\text{ORIGIN}) \\ \text{for } i \in \text{ORIGIN} .. \text{cols}(Mxy)-1+\text{ORIGIN} \\ \quad \left\| Mxy'_i \leftarrow \text{linterp}(x_1, Mxy^{\langle i \rangle}, x) \right. \\ \text{linterp}(y_1, Mxy', y) \end{array} \right.$$

$$\alpha_s := \left\| \begin{array}{l} \text{if } Exp_s = 2 \\ \quad \| 7.0 \\ \text{if } Exp_s = 3 \\ \quad \| 9.5 \\ \text{if } Exp_s = 4 \\ \quad \| 11.5 \end{array} \right. = 9.50$$

$$\alpha_{hwap} := \left\| \begin{array}{l} \text{if } Exp_{hwap} = 2 \\ \quad \| 7.0 \\ \text{if } Exp_{hwap} = 3 \\ \quad \| 9.5 \\ \text{if } Exp_{hwap} = 4 \\ \quad \| 11.5 \end{array} \right. = 9.50$$

$$z_{g\_s} := \left\| \begin{array}{l} \text{if } Exp_s = 2 \\ \quad \| 1200 \cdot ft \\ \text{if } Exp_s = 3 \\ \quad \| 900 \cdot ft \\ \text{if } Exp_s = 4 \\ \quad \| 700 \cdot ft \end{array} \right. = 900\ ft$$

$$z_{g\_hwap} := \left\| \begin{array}{l} \text{if } Exp_{hwap} = 2 \\ \quad \| 1200 \cdot ft \\ \text{if } Exp_{hwap} = 3 \\ \quad \| 900 \cdot ft \\ \text{if } Exp_{hwap} = 4 \\ \quad \| 700 \cdot ft \end{array} \right. = 900\ ft$$

$$K_{z\_F\_s}(z_2) := \left\| \begin{array}{l} \text{if } z_2 < 15 \cdot ft \\ \quad \left\| 2.01 \cdot \left(\frac{15 \cdot ft}{z_{g\_s}} \right)^{\frac{2}{\alpha_s}} \right. \\ \text{else} \\ \quad \left\| 2.01 \cdot \left(\frac{z_2}{z_{g\_s}} \right)^{\frac{2}{\alpha_s}} \right. \end{array} \right.$$

$$K_{z\_F\_hwap}(z_3) := \left\| \begin{array}{l} \text{if } z_3 < 15 \cdot ft \\ \quad \left\| 2.01 \cdot \left(\frac{15 \cdot ft}{z_{g\_hwap}} \right)^{\frac{2}{\alpha_{hwap}}} \right. \\ \text{else} \\ \quad \left\| 2.01 \cdot \left(\frac{z_3}{z_{g\_hwap}} \right)^{\frac{2}{\alpha_{hwap}}} \right. \end{array} \right.$$

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Wind Loads on Wrapped Truss or Solid Members

This Mathcad sheet calculates the wind pressures in accordance with figure 29.4-1 of ASCE 7-16.

Height of structure: $h := 13.5 \cdot ft$

Diameter or least horizontal dimension:

$D := 500\ mm = 19.69\ in$

Wind evaluation height: $z := h$

Cross section: $CS :=$ Square (normal)

Surface roughness definition:
D' = depth of protruding elements

Rough: D'/D = 0.02
Very rough: D'/D = 0.08

Surface Roughness (applies only to round cross section): $SR :=$ Not Round

Wind directionality factor:

$$K_d := \begin{cases} \text{if } CS = 1 \vee CS = 2 \\ \quad 0.90 \\ \text{also if } CS = 3 \\ \quad 0.95 \\ \text{else} \\ \quad 1.0 \end{cases} \qquad K_d = 0.90$$

Height/Diameter ratio:

$$hD := \frac{h}{D} = 8.23$$

Velocity Pressure Exposure Coefficient (service): $K_{z\_s} := K_{z\_F\_s}(z) = 0.85$

Velocity Pressure Exposure Coefficient (HWAP): $K_{z\_hwap} := K_{z\_F\_hwap}(z) = 0.85$

Wind velocity pressure (service): $q_{z\_s} := 0.00256 \cdot K_{z\_s} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (red \cdot V_s)^2 \cdot psf$ $\quad q_{z\_s} = 6.43\ psf$

Wind velocity pressure (HWAP): $q_{z\_hwap} := 0.00256 \cdot K_{z\_hwap} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (V_{hwap})^2 \cdot psf$ $\quad q_{z\_hwap} = 2.99\ psf$

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Force Coefficient Table

$$Table\_C_f := \begin{bmatrix} \text{“Cf”} & 0 & 1 & 7 & 25 & 9999 \\ 1 & 1.3 & 1.3 & 1.4 & 2.0 & 2.0 \\ 2 & 1.0 & 1.0 & 1.1 & 1.5 & 1.5 \\ 3 & 1.0 & 1.0 & 1.2 & 1.4 & 1.4 \\ 4 & 0.5 & 0.5 & 0.6 & 0.7 & 0.7 \\ 5 & 0.7 & 0.7 & 0.8 & 0.9 & 0.9 \\ 6 & 0.8 & 0.8 & 1.0 & 1.2 & 1.2 \\ 7 & 0.7 & 0.7 & 0.8 & 1.2 & 1.2 \end{bmatrix}$$

Diameter/velocity pressure variables:

$$Dqz := \frac{D}{ft} \cdot \sqrt{\frac{q_{z\_s}}{psf}} = 4.16 \qquad Dqz_{hwap} := \frac{D}{ft} \cdot \sqrt{\frac{q_{z\_hwap}}{psf}} = 2.84$$

Applicable row in Force Coefficient Table:

$$CS2 := \left\| \begin{array}{l} \text{if } CS \le 3 \\ \quad \| \, CS \\ \text{also if } CS = 4 \\ \quad \| \, 3 \\ \text{else} \\ \quad \left\| \begin{array}{l} \text{if } Dqz \le 2.5 \\ \quad \| \, 7 \\ \text{else} \\ \quad \left\| \begin{array}{l} \text{if } SR \le 2 \\ \quad \| \, 4 \\ \text{also if } SR = 3 \\ \quad \| \, 5 \\ \text{else} \\ \quad \| \, 6 \end{array} \right. \end{array} \right. \end{array} \right. = 1$$

$$CS2_{hwap} := \left\| \begin{array}{l} \text{if } CS \le 3 \\ \quad \| \, CS \\ \text{also if } CS = 4 \\ \quad \| \, 3 \\ \text{else} \\ \quad \left\| \begin{array}{l} \text{if } Dqz_{hwap} \le 2.5 \\ \quad \| \, 7 \\ \text{else} \\ \quad \left\| \begin{array}{l} \text{if } SR \le 2 \\ \quad \| \, 4 \\ \text{also if } SR = 3 \\ \quad \| \, 5 \\ \text{else} \\ \quad \| \, 6 \end{array} \right. \end{array} \right. \end{array} \right. = 1$$

Force coefficient (service):

$$C_{f\_s} := Spline\left(Table\_C_f, CS2, hD\right) \qquad C_{f\_s} = 1.44$$

Force coefficient (HWAP):

$$C_{f\_hwap} := Spline\left(Table\_C_f, CS2_{hwap}, hD\right) = 1.44 \qquad C_{f\_hwap} = 1.44$$

Wind pressure (service):

$$p_{wind\_s} := q_{z\_s} \cdot C_{f\_s} \cdot G_w \qquad p_{wind\_s} = 7.88\ psf$$

Wind pressure (HWAP):

$$p_{wind\_hwap} := q_{z\_hwap} \cdot C_{f\_hwap} \cdot G_w \qquad p_{wind\_hwap} = 3.66\ psf$$

Linear wind load (service):

$$w_{wrap\_s} := p_{wind\_s} \cdot D \qquad w_{wrap\_s} = 12.92\ plf$$

Linear wind load (HWAP):

$$w_{wrap\_hwap} := p_{wind\_hwap} \cdot D \qquad w_{wrap\_hwap} = 6.00\ plf$$

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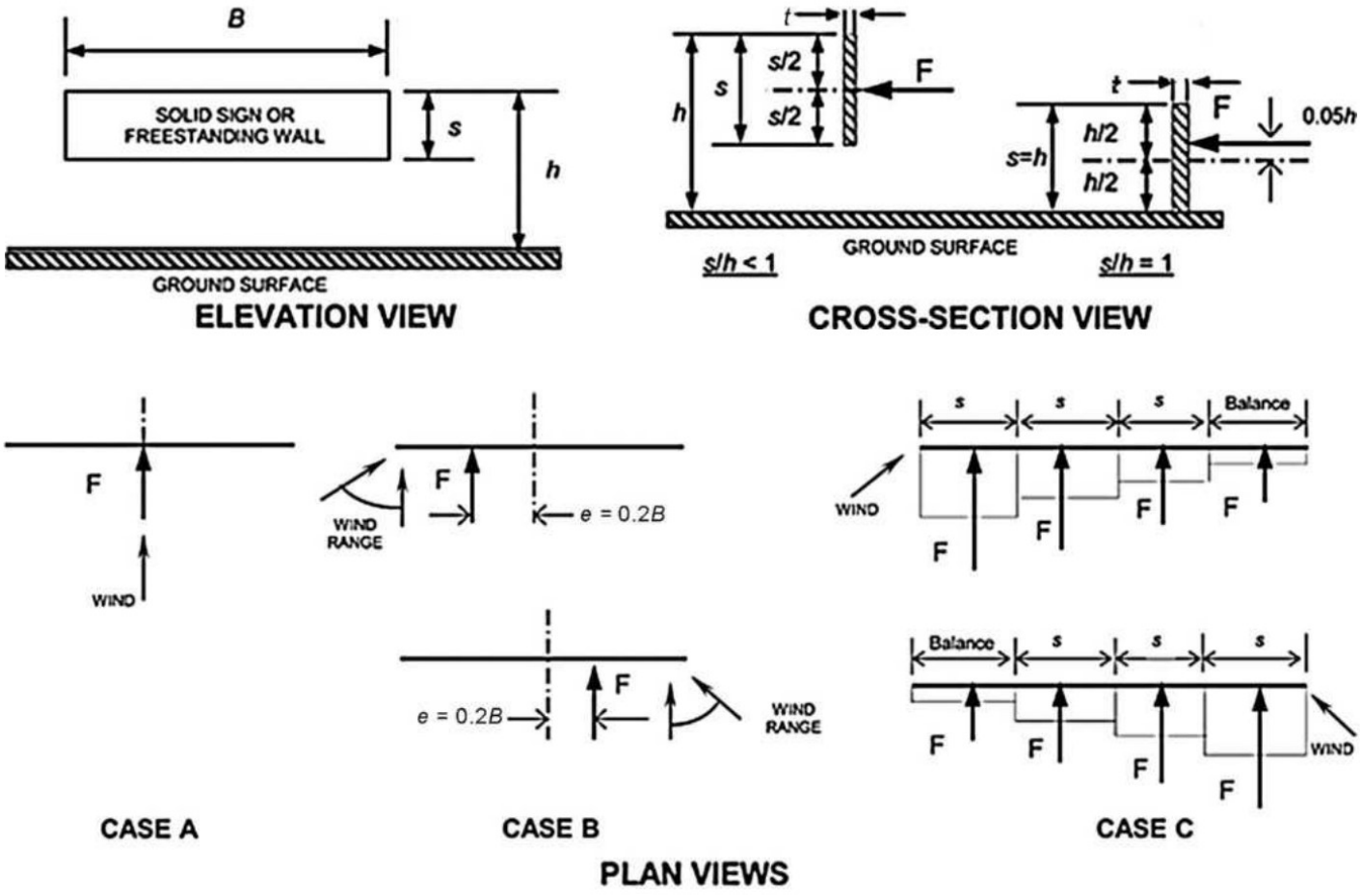
Wind Loads on Scrim / Signs

This Mathcad sheet calculates the wind pressures on a sign or scrim in accordance with figure 29.3-1 of ASCE 7-16.

Diagrams



Top of sign height:	$h := 8 \cdot ft$	Sign Width:	$B := 8 \cdot ft$
Vertical dimension of sign:	$s := 8 \cdot ft$	Wind directionality factor:	$K_d := 0.85$

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Aspect ratio, B/s: $Bs := \frac{B}{s} = 1.00$

Clearance ratio, s/h: $sh := \frac{s}{h} = 1.00$

Velocity Pressure Exposure Coefficient (service):

$K_{z\_s} := K_{z\_F\_s}(h)$ $K_{z\_s} = 0.85$

Velocity Pressure Exposure Coefficient (HWAP):

$K_{z\_hwap} := K_{z\_F\_hwap}(h)$ $K_{z\_hwap} = 0.85$

Wind velocity pressure (service): $q_{h\_s} := 0.00256 \cdot K_{z\_s} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (red \cdot V_s)^2 \cdot psf$ $q_{h\_s} = 6.07\ psf$

Wind velocity pressure (HWAP): $q_{h\_hwap} := 0.00256 \cdot K_{z\_hwap} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (V_{hwap})^2 \cdot psf$ $q_{h\_hwap} = 2.82\ psf$

Wind Loads on Monoslope Free Roofs (MWFRS)

This Mathcad sheet calculates the Main Wind Force wind pressures in accordance with Figures 27.3-4 and 27.3-7of ASCE 7-16.

Wind directionality factor: $K_d := 0.85$

Height of structure: $h := 8 \cdot ft$

Roof slope: $\theta := 0 \cdot deg$

Wind flow: $Flow :=$ Clear

Note: Clear wind flow denotes relatively unobstructed wind flow with blockage ≤ 50%.

Velocity Pressure Exposure Coefficient (service):

$K_{h\_s} := K_{z\_F\_s}(h)$ $\quad K_{h\_s} = 0.85$

Velocity Pressure Exposure Coefficient (service):

$K_{h\_hwap} := K_{z\_F\_hwap}(h)$ $\quad K_{h\_hwap} = 0.85$

Wind velocity pressure (service): $q_{h\_s} := 0.00256 \cdot K_{h\_s} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (red \cdot V_s)^2 \cdot psf$ $\quad q_{h\_s} = 6.07\ psf$

Wind velocity pressure (HWAP): $q_{h\_hwap} := 0.00256 \cdot K_{h\_hwap} \cdot K_{zt} \cdot K_d \cdot K_e \cdot (V_{hwap})^2 \cdot psf$ $\quad q_{h\_hwap} = 2.82\ psf$

Wind Parallel to Slope (0° / 180°):

Net Pressure Coefficient, C_N

		Wind Direction, $\gamma = 0°$				Wind Direction, $\gamma = 180°$			
		Clear Wind Flow		Obstructed Wind Flow		Clear Wind Flow		Obstructed Wind Flow	
Roof Angle, θ	Load Case	C_{NW}	C_{NL}	C_{NW}	C_{NL}	C_{NW}	C_{NL}	C_{NW}	C_{NL}
0°	A	1.2	0.3	−0.5	−1.2	1.2	0.3	−0.5	−1.2
	B	−1.1	−0.1	−1.1	−0.6	−1.1	−0.1	−1.1	−0.6
7.5°	A	−0.6	−1.0	−1.0	−1.5	0.9	1.5	−0.2	−1.2
	B	−1.4	0.0	−1.7	−0.8	1.6	0.3	0.8	−0.3
15°	A	−0.9	−1.3	−1.1	−1.5	1.3	1.6	0.4	−1.1
	B	−1.9	0.0	−2.1	−0.6	1.8	0.6	1.2	−0.3
22.5°	A	−1.5	−1.6	−1.5	−1.7	1.7	1.8	0.5	−1.0
	B	−2.4	−0.3	−2.3	−0.9	2.2	0.7	1.3	0.0
30°	A	−1.8	−1.8	−1.5	−1.8	2.1	2.1	0.6	−1.0
	B	−2.5	−0.5	−2.3	−1.1	2.6	1.0	1.6	0.1
37.5°	A	−1.8	−1.8	−1.5	−1.8	2.1	2.2	0.7	−0.9
	B	−2.4	−0.6	−2.2	−1.1	2.7	1.1	1.9	0.3
45°	A	−1.6	−1.8	−1.3	−1.8	2.2	2.5	0.8	−0.9
	B	−2.3	−0.7	−1.9	−1.2	2.6	1.4	2.1	0.4

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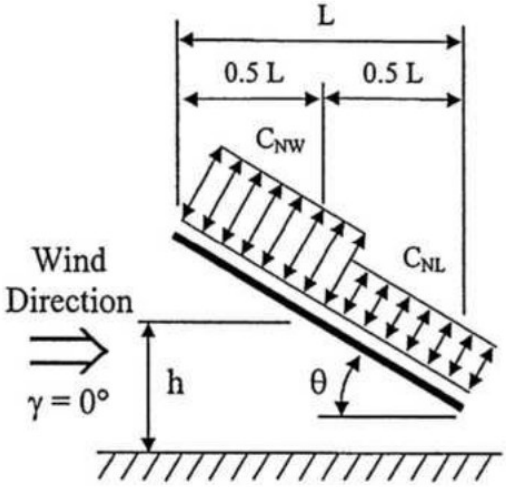
Wind Direction = 0°



Roof angle for tables:

$$\theta := \left\| \begin{array}{l} \text{if } \theta < 7.5 \cdot \textit{deg} \\ \quad \| 0 \\ \text{else} \\ \quad \| \frac{\theta}{\textit{deg}} \end{array} \right\| = 0.00$$

CN Table for Load Case A:

$$Table\_CN\_A\_0 := \begin{bmatrix} \text{"CN"} & 1 & 2 & 3 & 4 \\ 0 & 1.2 & 0.3 & -0.5 & -1.2 \\ 7.5 & -0.6 & -1 & -1 & -1.5 \\ 15 & -0.9 & -1.3 & -1.1 & -1.5 \\ 22.5 & -1.5 & -1.6 & -1.5 & -1.7 \\ 30 & -1.8 & -1.8 & -1.5 & -1.8 \\ 37.5 & -1.8 & -1.8 & -1.5 & -1.8 \\ 45 & -1.6 & -1.8 & -1.3 & -1.8 \\ 90 & -1.6 & -1.8 & -1.3 & -1.8 \end{bmatrix}$$

CN Table for Load Case B:

$$Table\_CN\_B\_0 := \begin{bmatrix} \text{"CN"} & 1 & 2 & 3 & 4 \\ 0 & -1.1 & -0.1 & -1.1 & -0.6 \\ 7.5 & -1.4 & 0 & -1.7 & -0.8 \\ 15 & -1.9 & 0 & -2.1 & -0.6 \\ 22.5 & -2.4 & -0.3 & -2.3 & -0.9 \\ 30 & -2.5 & -0.5 & -2.3 & -1.1 \\ 37.5 & -2.4 & -0.6 & -2.2 & -1.1 \\ 45 & -2.3 & -0.7 & -1.9 & -1.2 \\ 90 & -2.3 & -0.7 & -1.9 & -1.2 \end{bmatrix}$$

Net Pressure Coefficients:

Case A - Windward:

$$C_{NW\_A\_0} := \left\| \begin{array}{l} \text{if } Flow = 1 \\ \quad \| Spline(Table\_CN\_A\_0, \theta, 1) \\ \text{else} \\ \quad \| Spline(Table\_CN\_A\_0, \theta, 3) \end{array} \right\| \qquad C_{NW\_A\_0} = 1.20$$

Case A - Leeward:

$$C_{NL\_A\_0} := \left\| \begin{array}{l} \text{if } Flow = 1 \\ \quad \| Spline(Table\_CN\_A\_0, \theta, 2) \\ \text{else} \\ \quad \| Spline(Table\_CN\_A\_0, \theta, 4) \end{array} \right\| \qquad C_{NL\_A\_0} = 0.30$$

Case B - Windward:

$$C_{NW\_B\_0} := \left\| \begin{array}{l} \text{if } Flow = 1 \\ \quad \| Spline(Table\_CN\_B\_0, \theta, 1) \\ \text{else} \\ \quad \| Spline(Table\_CN\_B\_0, \theta, 3) \end{array} \right\| \qquad C_{NW\_B\_0} = -1.10$$

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Case B - Leeward:

$$C_{NL\_B\_0} := \left\| \begin{array}{l} \text{if } Flow = 1 \\ \quad \left\| Spline(Table\_CN\_B\_0, \theta, 2) \right. \\ \text{else} \\ \quad \left\| Spline(Table\_CN\_B\_0, \theta, 4) \right. \end{array} \right.$$

$C_{NL\_B\_0} = -0.10$

Wind pressure on roof (service):

Case A: Windward pressure (high end):

$p_{WW\_A\_0} := q_{h\_s} \cdot C_{NW\_A\_0} \cdot G_w$ $\quad p_{WW\_A\_0} = 6.19\ psf$

Leeward pressure (low end)

$p_{LW\_A\_0} := q_{h\_s} \cdot C_{NL\_A\_0} \cdot G_w$ $\quad p_{LW\_A\_0} = 1.55\ psf$

Case B: Windward pressure (high end):

$p_{WW\_B\_0} := q_{h\_s} \cdot C_{NW\_B\_0} \cdot G_w$ $\quad p_{WW\_B\_0} = -5.68\ psf$

Leeward pressure (low end)

$p_{LW\_B\_0} := q_{h\_s} \cdot C_{NL\_B\_0} \cdot G_w$ $\quad p_{LW\_B\_0} = -0.52\ psf$

Wind pressure on roof (HWAP):

Case A: Windward pressure (high end):

$p_{WW\_A\_0\_hwap} := q_{h\_hwap} \cdot C_{NW\_A\_0} \cdot G_w$ $\quad p_{WW\_A\_0\_hwap} = 2.88\ psf$

Leeward pressure (low end)

$p_{LW\_A\_0\_hwap} := q_{h\_hwap} \cdot C_{NL\_A\_0} \cdot G_w$ $\quad p_{LW\_A\_0\_hwap} = 0.72\ psf$

Case B:

Windward pressure (high end):

$p_{WW\_B\_0\_hwap} := q_{h\_hwap} \cdot C_{NW\_B\_0} \cdot G_w$ $\quad p_{WW\_B\_0\_hwap} = -2.64\ psf$

Leeward pressure (low end)

$p_{LW\_B\_0\_hwap} := q_{h\_hwap} \cdot C_{NL\_B\_0} \cdot G_w$ $\quad p_{LW\_B\_0\_hwap} = -0.24\ psf$

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Global Stability Review- The Portal

59mph Wind Stability Checks:

Overturning Stability:

Height of Structure: $h_{structure} := 13.5\ ft$

Diameter of Circle: $d_{circle} := 14.5 \cdot ft$

Circumference of Circle: $C_{circle} := .75 \cdot \pi \cdot d_{circle} = 34.16\ ft$

Overturning Force: $M_{OT} := w_{wrap\_s} \cdot C_{circle} \cdot 0.5 \cdot h_{structure} = 2.98\ kip \cdot ft$

Self Weight of Truss: $sw_{truss} := 6 \cdot plf$

Length of Outriggers: $l_{outriggers} := 4 \cdot ft$

Linear Footage of Structure: $LF_{truss} := C_{circle} + 4 \cdot l_{outriggers} = 50.16\ ft$

Dead Load of Structure: $wt_{truss} := sw_{truss} \cdot LF_{truss} = 300.99\ lbf$

Weight of LED vide tiles $wt_{vide} := 375 \cdot lbf$

Weight of LED pars $wt_{par} := 252 \cdot lbf$

Weight of scenic pieces $wt_{scenic} := 210 \cdot lbf$

Weight of additional rigging $wt_{rigging} := 300 \cdot lbf$

Depth of Structure: $d_{structure} := 1 \cdot ft + 2 \cdot l_{outriggers} = 9.00\ ft$

Overturning Resistance: $M_R := 0.5 \cdot d_{structure} \cdot \left(wt_{truss} + wt_{vide} + wt_{par} + wt_{scenic} + wt_{rigging}\right) = 6.47\ kip \cdot ft$

Overturning Safety Factor: $FS_{ovt} := \frac{M_R}{M_{OT}} = 2.17$ > 1.5, OK

Note: All weights provided by Big Art

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Sliding Stability:

Total Sliding: $F_{slide} := w_{wrap\_s} \cdot C_{circle} = 441.40$ *lbf*

Sliding Coefficient: $\mu_{slide} := 0.4$

Total Weight: $Wt_{total} := wt_{truss} + wt_{truss} + wt_{vide} + wt_{par} + wt_{scenic} + wt_{rigging} = 1738.98$ *lbf*

Sliding Resistance: $F_{res.slide} := \left(Wt_{total}\right) \cdot \mu_{slide} = 695.59$ *lbf*

Factor of Safety (Sliding): $FS_{sliding} := \frac{F_{res.slide}}{F_{slide}} = 1.58$ > 1.5, OK

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Global Stability Review- EQUBE

59mph Wind Stability Checks:

Overturning Stability:

Height of Structure: $h_{structure} := 8\ ft$

Length of Structure: $l_{structure} := 8\ ft$

Depth of Structure: $d_{structure} := 8\ ft$

Overturning Force: $M_{OT} := q_{h\_s} \cdot d_{structure} \cdot l_{structure} \cdot \frac{h_{structure}}{2} = 1.55\ kip \cdot ft$

Self Weight of Truss: $sw_{truss} := 6 \cdot plf$

Dead Load of Structure: $wt_{truss} := sw_{truss} \cdot \left(4 \cdot h_{structure} + 2 \cdot l_{structure} + 2 \cdot d_{structure}\right) = 384.00\ lbf$

Weight of LED bars $wt_{bars} := 576 \cdot lbf$

Weight of Equipment $wt_{equipment} := 100 \cdot lbf$

Weight of Ballast $wt_{ballast} := 150 \cdot lbf$

Overturning Resistance: $M_R := 0.5 \cdot d_{structure} \cdot \left(wt_{truss} + wt_{equipment} + wt_{bars} + 4 \cdot wt_{ballast}\right) = 6.64\ kip \cdot ft$

Overturning Safety Factor: $FS_{ovt} := \frac{M_R}{M_{OT}} = 4.27$ > 1.5, OK

Note: All weights (except ballast) provided by Big Art

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Sliding Stability:

Total Sliding: $F_{slide} := q_{h\_s} \cdot d_{structure} \cdot l_{structure} = 388.66$ **lbf**

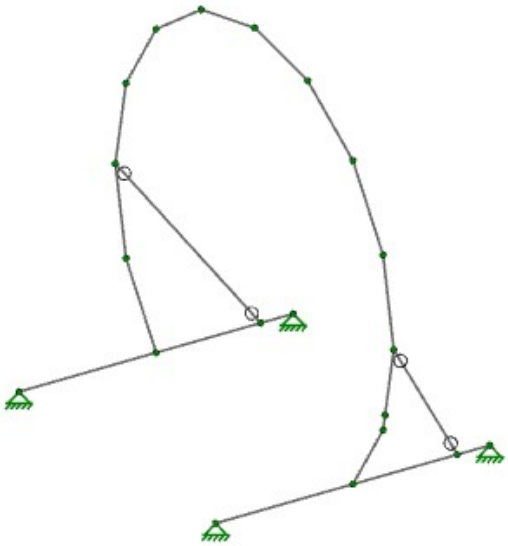
Sliding Coefficient: $\mu_{slide} := 0.4$

Total Weight: $Wt_{total} := wt_{truss} + wt_{equipment} = 484.00$ **lbf**

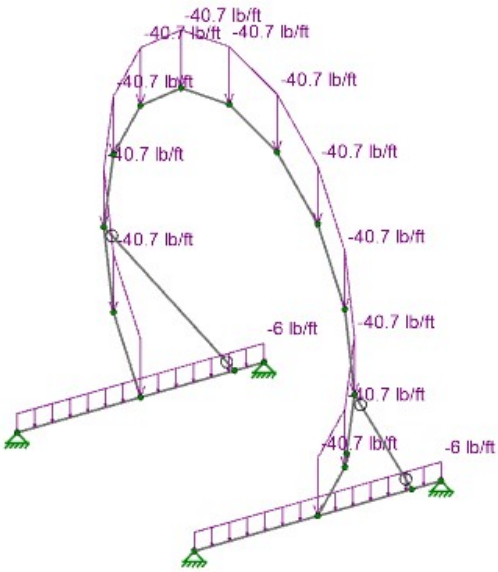
Sliding Resistance: $F_{res.slide} := \left(Wt_{total} + wt_{bars} + 4 \cdot wt_{ballast}\right) \cdot \mu_{slide} = 664.00$ **lbf**

Factor of Safety (Sliding): $FS_{sliding} := \frac{F_{res.slide}}{F_{slide}} = 1.71$ > 1.5, OK

Truss Analysis- Portal



RISA Model Reference



Dead Load

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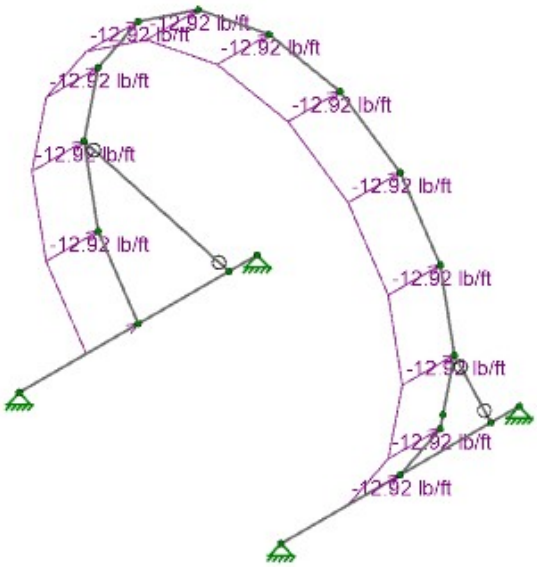

Wind 59mph- Z Direction

Basic Load Cases

	BLC Description	BLC Factor	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed
1	sw		None						14
2	wind z		None						12
3	rigging		None						12

Basic Load Cases

	Description	Solve	P-Delta	SRSS	BLC	Factor	BLC	Factor
1	sw	☑			1	1		
2	sw + rigging	☑			1	1	3	1
3	sw + rigging + wind z	☑			L2	1	2	1
4	sw + rigging - wind z	☑			L2	1	2	-1

Load Combinations

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Truss Strength Check

12" Truss Review

Axial Capacity:	13860	lb
Shear Capacity (Y-axis):	1155	lb
Shear Capacity (Z-axis):	462	lb
Moment Capacity (Y-axis):	2310	lb-ft
Moment Capacity (Z-axis):	5775	lb-ft
Chord Area:	0.736	in²

Truss Brand:	Unisson	
Truss Size:	12x12 Plated	
Shear Weak/Strong Axis Ratio:	0.4	
Moment Weak/Strong Axis Ratio:	0.4	

	Axial [lb]	Shear Y [lb]	Shear Z [lb]	Torque [lb-ft]	Moment YY [lb-ft]	Moment ZZ [lb-ft]	Controlling Strength Ratio		Max Stress (ksi)
Maximum:	1237	794	452	163	909	825	0.86	0.98	3.10
Minimum:	-298	-526	-452	-163	-1095	-2951			

Case	Member	Location	Forces						Strength Ratio		Normal Stress (ksi)
			Axial [lb]	Shear Y [lb]	Shear Z [lb]	Torque [lb-ft]	Moment YY [lb-ft]	Moment ZZ [lb-ft]	Axial + Moment	Shear	
1	M19	1	63	0	-21	1	133	0	0.062	0.046	0.13
1	M19	2	59	0	-20	1	119	0	0.056	0.044	0.12
1	M19	3	55	0	-20	1	106	0	0.050	0.042	0.10
1	M19	4	51	0	-19	1	92	0	0.044	0.041	0.09
1	M19	5	47	0	-18	1	80	0	0.038	0.039	0.08

Max Utilization = 86%, OK

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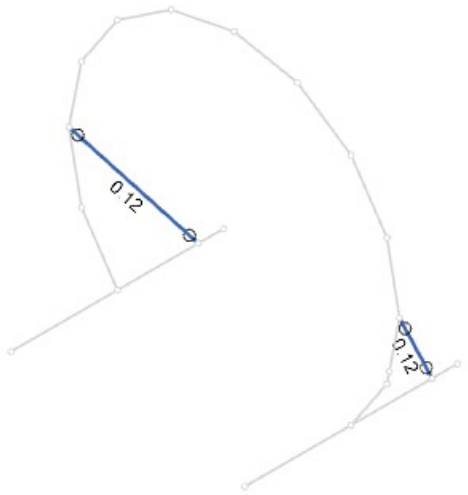
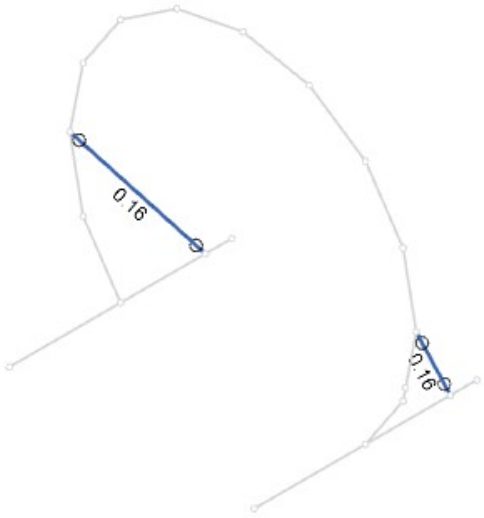
Pipe Strength Check



Max Bending Utilization = 12%, OK



Max Shear Utilization = 16%, OK

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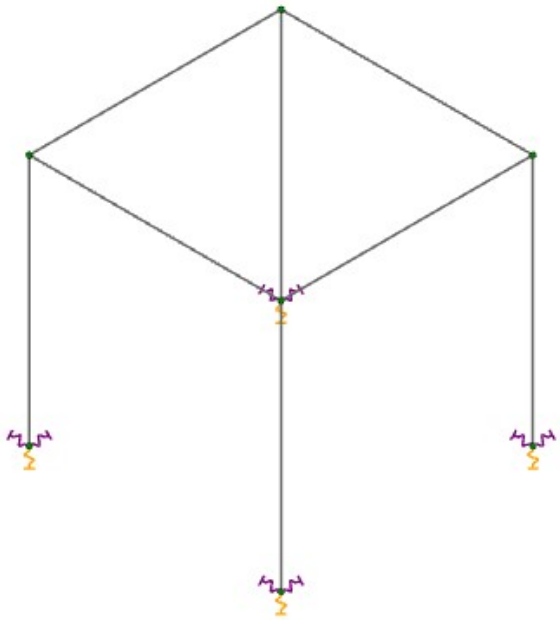
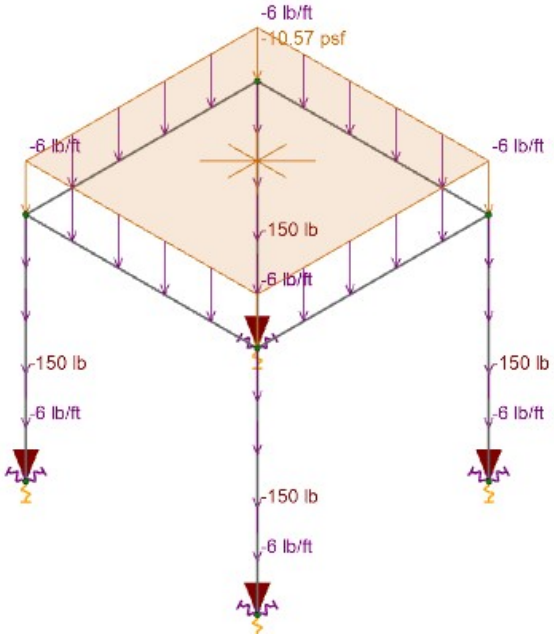
Truss Analysis- EQUBE



RISA Model Reference



Dead Load

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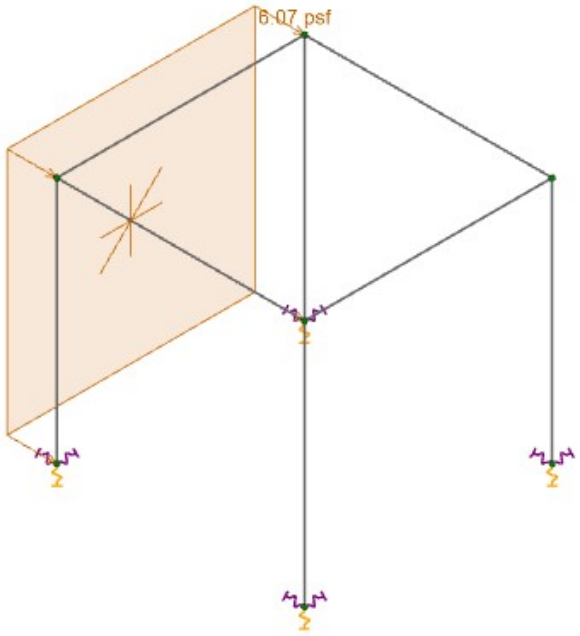
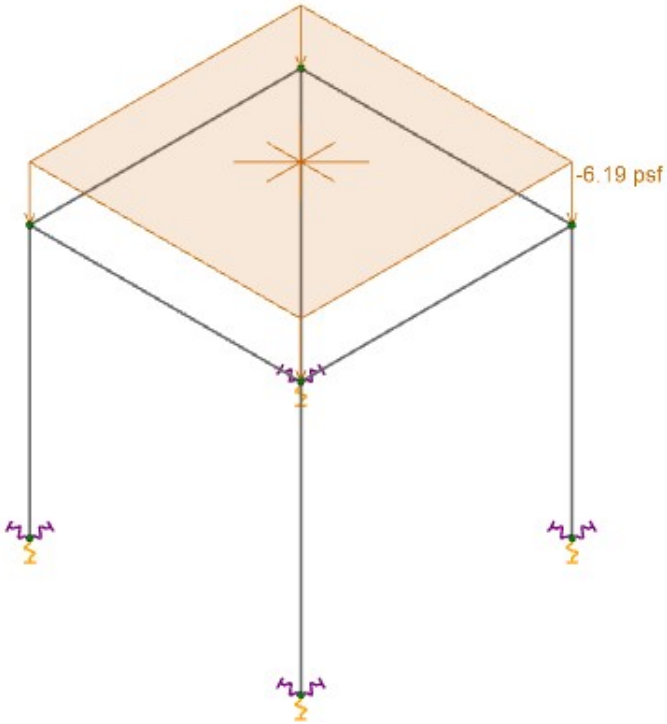


Wind 59mph- X Direction



Wind 59mph- Roof Downward Pressure

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Basic Load Cases

	BLC Description	BLC Factor	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
1	sw		None				4		8	
2	rigging		None							1
3	wind x		None							1
4	wind z		None							1
5	roof pressure		None							1

Basic Load Cases

	Description	Solve	P-Delta	SRSS	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	sw	☑			1	1						
2	sw + rigging	☑			1	1	2	1				
3	sw + rigging + wind x + roof pressure	☑			L2	1	3	1	5	1		
4	sw + rigging + wind z 45 + wind x 45 + roof pressure	☑			L2	1	3	0.707	4	0.707	5	1
5	sw + rigging + wind z 45 - wind x 45 + roof pressure	☑			L2	1	3	0.707	4	-0.707	5	1
6	sw + rigging - wind z 45 + wind x 45 + roof pressure	☑			L2	1	3	-0.707	4	0.707	5	1
7	sw + rigging - wind z 45 - wind x 45 + roof pressure	☑			L2	1	3	-0.707	4	-0.707	5	1

Load Combinations

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Truss Strength Check

12" Truss Review

Axial Capacity:	13860	lb
Shear Capacity (Y-axis):	1155	lb
Shear Capacity (Z-axis):	462	lb
Moment Capacity (Y-axis):	2310	lb-ft
Moment Capacity (Z-axis):	5775	lb-ft
Chord Area:	0.736	in²

Truss Brand:	Unisson	
Truss Size:	12x12 Plated	
Shear Weak/Strong Axis Ratio:	0.4	
Moment Weak/Strong Axis Ratio:	0.4	

	Axial [lb]	Shear Y [lb]	Shear Z [lb]	Torque [lb-ft]	Moment YY [lb-ft]	Moment ZZ [lb-ft]	Controlling Strength Ratio		Max Stress (ksi)
Maximum:	525	264	112	0	376	607	0.32	0.24	0.93
Minimum:	-32	-264	-81	0	-467	-607			

Case	Member	Location	Forces						Strength Ratio		Normal Stress (ksi)
			Axial [lb]	Shear Y [lb]	Shear Z [lb]	Torque [lb-ft]	Moment YY [lb-ft]	Moment ZZ [lb-ft]	Axial + Moment	Shear	
1	M1	1	96	-2	2	0	0	0	0.007	0.004	0.03
1	M1	2	84	-2	2	0	4	4	0.008	0.004	0.03
1	M1	3	72	-2	2	0	7	9	0.010	0.004	0.04
1	M1	4	60	-2	2	0	11	13	0.011	0.004	0.04
1	M1	5	48	-2	2	0	14	17	0.013	0.004	0.04
1	M2	1	96	2	2	0	0	0	0.007	0.004	0.03

Max Utilization = 32%, OK

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September 18, 2024

Jennifer Gill
Public Arts Manager
7380 E. Second Street
Scottsdale, AZ 85251

Re: Placement and Rigging of Scottsdale Arts, *Molecules* Art Installation

Dear Ms. Gill:

This letter is to provide you with Sirius Structures, LLC's assessment of the *Molecules* art installation (part of Scottsdale Arts Canal Convergence) planned to be located along the Central Arizona Canal in Scottsdale, AZ. For the Canal Convergence Project, a series of art sculptures will be placed adjacent to and along the existing Central Arizona Canal for approximately 2 months. Vertical and lateral analyses were performed in accordance with the 2018 IBC, and ASCE 37-14.

The *Molecules* orb structures will be strung using a series of galvanized aircraft cables to resist vertical and lateral movement of the art. These aircraft cables will be attached to existing square tube steel monopoles (Photo 1) by a series of temporary connectors on one end and to an aluminum spherical frame on the other end. There will be three individual orb structures that will be connected to form molecule clusters. Each orb will be covered approximately 50-60% with polycarbonate panels, and will contain LED lighting. A rendering of the proposed art installation is shown in Photo 2, with an artist model of a molecule cluster shown in Photo 3.

Sirius Structures, LLC acquired structure weights and sizes from the artist, rigging team, and Scottsdale Arts to determine the methods needed for rigging and placement of the sculptures. There are two different sized structures that make up each molecule cluster with one large orb and two same-size smaller orbs. The rigging was designed for a total weight of 175 lbs for the large orb and 100 lbs for each of the smaller orbs, which includes the weight of all components of each frame and the cables. The rigging was also designed for approximately 65% of each orb structure covered in polycarbonate panels. Should the weights of the structures and individual components or the percentage of coverage change from those stated above, Sirius Structures shall be notified to re-evaluate the proposed rigging plan.

The aluminum orb frames will be attached to existing steel monopoles using multiple 1/4" diameter galvanized aircraft cables. Cables shall be strung from existing poles to a 3-way

bridle assembly located 2'-0" directly above each individual orb. At one location, there will be a 4-way bridle above each orb. Each bridle assembly shall be suspended a minimum of 5'-6" below the lowest anchor point on the existing monopoles. The proposed cable rigging plan is shown in Photo 4, and an approximate elevation view of the rigging plan is shown in Photo 5. Design of the orb structures and the connections of the structures to each other shall be provided by others.

The initial cable tension and sag prior to installation of the orb structures are shown in Table 1.

Initial Cable Tension in Support Cables Before Dead Load Installation		
Cable Size	Tension (lbs)	Sag %
1/4" Cables Less Than 100'	27	5
1/4" Cables More Than 100'	40	5

Table 1, Initial Cable Tension

Analysis performed indicates a maximum tension in the rigging cables of 914 lbs after gravity and wind load is applied.

The expected cable tension for each cable after gravity load is applied is shown in Table 2.

Expected Cable Tension in 1/4" Dia Support Cables After Dead Load Installation									
Cable #	Tension (lbs)	Cable #	Tension (lbs)	Cable #	Tension (lbs)	Cable #	Tension (lbs)	Cable #	Tension (lbs)
1	701	11	292	21	436	31	280	41	455
2	653	12	582	22	309	32	208	42	289
3	324	13	340	23	290	33	314	43	326
4	389	14	163	24	184	34	217	44	313
5	347	15	286	25	337	35	229	45	217
6	188	16	307	26	311	36	284	46	49
7	258	17	111	27	240	37	573	47	14
8	470	18	276	28	495	38	575	48	39
9	444	19	624	29	441	39	395		
10	656	20	595	30	566	40	440		

Table 2, Cable Tension After Gravity Load

The total load on the HSS monopoles from the galvanized aircraft cables will be below the allowable capacity listed on the HSS monopole drawings provided of 4,100 lbs.

Please note that no review of the existing HSS monopole, original plans, adequacy of the original structure, or connection design has been performed except as noted above. This assessment is based solely on the information provided.

This structural assessment was performed at a single point in time. Should the design of or weight of the sculpture change, it is the obligation of the Artist and Scottsdale Arts to notify Sirius Structures, LLC to reassess the changes. If the tensions during installation exceed those listed in Table 2 and referenced on the rigging chart, please notify Sirius Structures, LLC for additional review.

Please let me know if you have any other questions or concerns. You may reach me at any time by phone at (760) 504-7062 or by email at kaitlin@siriusstructures.com.

Thank you,

Kaitlin Crimmins, PE

Photo 1 – Existing HSS Steel Tube (Molecules Support Structure)

Photo 2 – Rendering of Installed Molecules Art Installation

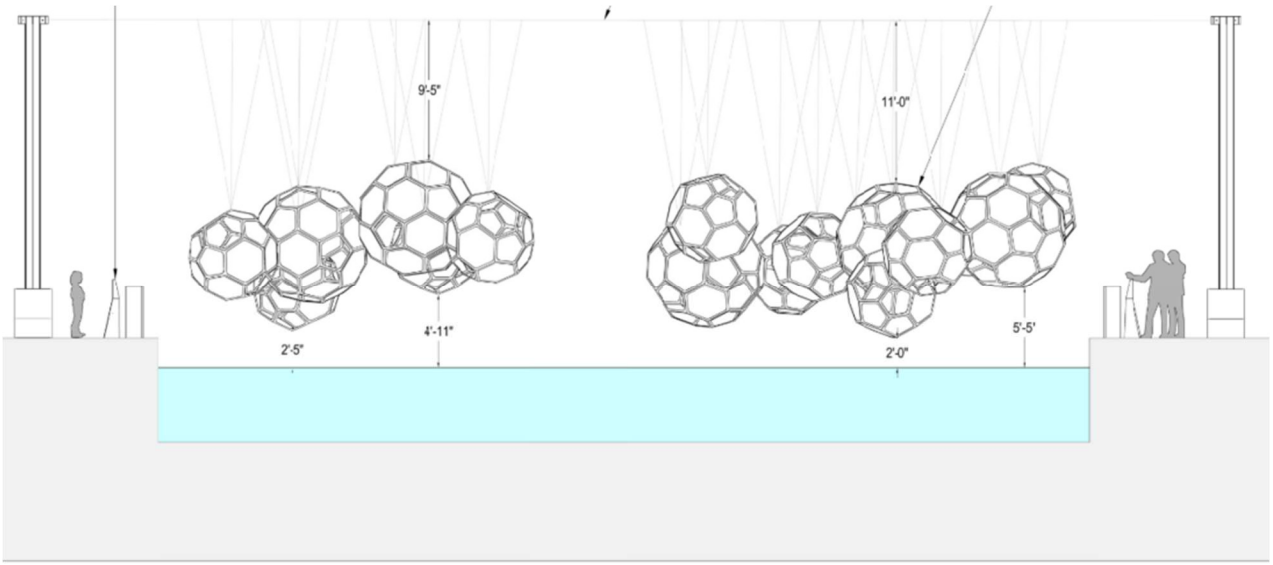


Photo 3 – Model of Molecule Cluster

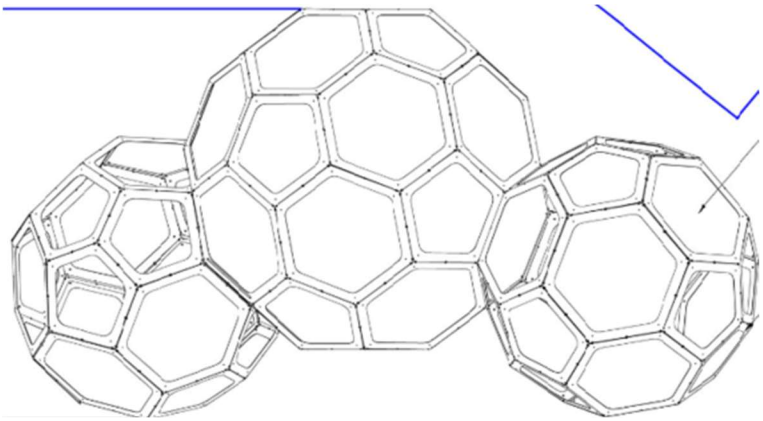


Photo 4 – Proposed Rigging Plan

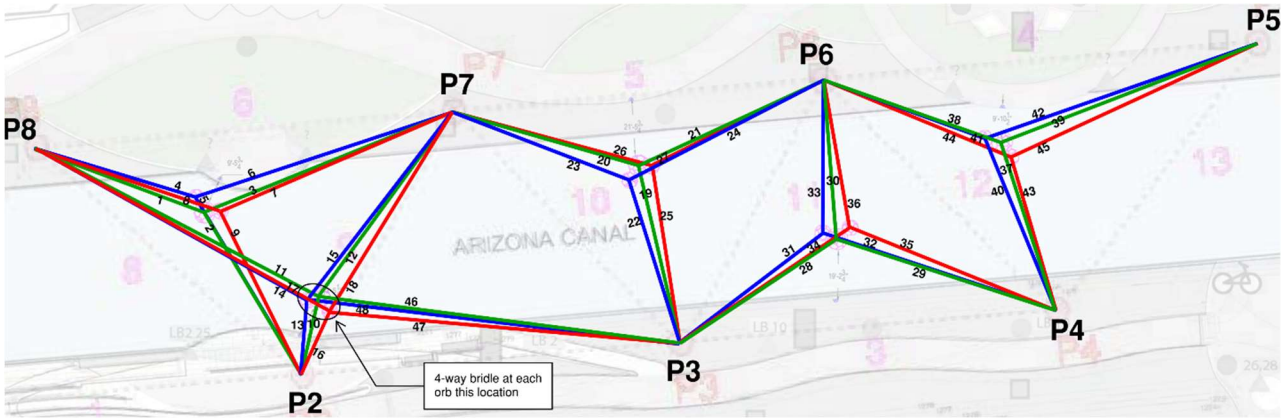
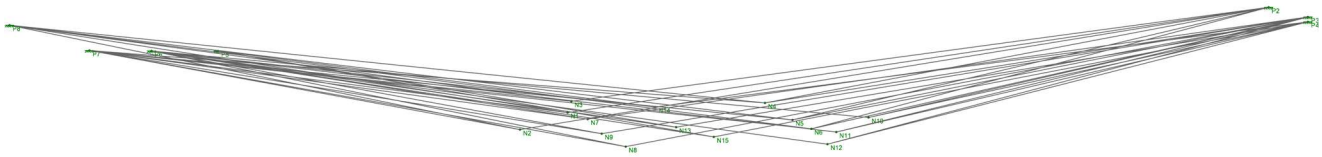


Photo 5 – Rigging Plan Elevation



Notification of Proposed Special Events
Canal Bank area

The City of Scottsdale has received several special event applications and is programming events to occur along the Old Town Scottsdale canal banks. The purpose of this email is to provide awareness to residents and businesses in the nearby area, relay details about the proposed events, and solicit feedback.

Please review the below information and if you have any comments, questions or concerns, contact Cheryl Sumners no later than Monday, August 19, 2024.

Canal Convergence
10 days, November 8 - 17

Returning for its 14th season, Canal Convergence is produced by Scottsdale Public Art as a free event that celebrates the vibrant arts and culture community, featuring large-scale public art installations with illuminated, interactive technology, created by local, national, and international artists. In addition to the artworks, the event includes educational programming, family-oriented activities, art-making workshops, live music, dance performances, and food/beverage options.

Event details and information include:

- Event Hours: Nightly. Fri. & Sat. 6 p.m.- 10 p.m.; Sun-Thu 6 p.m. - 9 p.m.
- Event Set-up: Art installation begins Oct. 25 and continues through Nov. 7.
- Event Tear-down: Begins immediately following the event, with installation removal completed by November 21.
- Entertainment: Live music, pre-recorded music, DJ, speaker/announcer and fire performances set to music during event hours.
- Event Parking: Volunteers, vendors, and attendees will be directed to the nearby public parking garages.
- Street Closures: Marshall Way located north of the bridge and south of Via Soleri from Thu. Nov. 7 at 6 a.m. – Mon. Nov. 18 at 6 a.m.

For more information, see **Application and Site Plan**
Event Info: **CanalConvergence.com**

Special Event Notice

Neighborhood Input

CITY OF SCOTTSDALE

EVENT NOTIFICATION & NEIGHBORHOOD INPUT

Event Name: Canal Convergence
Event Location: Scottsdale Waterfront
Event Dates: November 8 - 17, 2024
Event Hours: Fri/Sat: 6 p.m.-10 p.m., Sun-Thurs: 6 p.m.-9 p.m.
Street Closures: November 7 (12:01 a.m.) - November 18 (6:00 a.m.)
Day/Time Closed:
Day/Time Reopened:

We are thrilled to be guests in your neighborhood and it's important to us that we are communicating clearly with you, the neighbors, to determine if there are any comments or concerns related to the event and/or proposed street closure. I have provided a copy of the site plan and details of the street closure explaining the proposed Special Event. If you have any comments or concerns related to the event, please note in the applicable column. If you prefer to contact the City's Events Administrator directly, contact Cheryl Sumners at 480-312-7834 or csumners@scottsdaleaz.gov.

Please read before filling out: I hereby declare that I am an authorized representative of the listed business and have been informed by the event applicant/designee of the event details, including proposed street closures. By marking "No" for concerns, I am relaying that I have no significant concerns about the event. By marking "Yes" for concerns, I am relaying that I have concerns with the event and/or street closure and will state the reason(s) why in the comment box.

DATE	PRINTED NAME	TITLE (Owner, Manager, etc.)	EMAIL	BUSINESS NAME & ADDRESS	DID YOU RECEIVE A COPY OF THE SITE PLAN?	CONCERNS?
9/3	ASHLEY GUTHRIE	AGM	amguthrie@foxrc.com	OLIVE & IVY 7135 E. CAMELBACK RD 195	☑ Yes ☐ No	☐ Yes ☑ No
COMMENTS/CONCERNS: EMAIL FOLLOW UP W/ PROJECTION PIECE.						
9/3	Sofia Reynolds	manager	02sofia79@gmail.com	Prep + Pastry 7025 E. Soleri Dr Scottsdale	☐ Yes ☐ No	☐ Yes ☑ No
COMMENTS/CONCERNS:						
9/3	Fred Knipschee	AGM	Freddie.Knipschee@TOGRP.com	STK Scottsdale	☑ Yes ☐ No	☐ Yes ☑ No
COMMENTS/CONCERNS:						
9/4	Sue Cohee Meaghan	Mgr. PM	Sue.cohee@swfrca.org mdugan@mrsa.net	Scottsdale Waterfront Residences Scottsdale WF Retail	☒ Yes ☐ No	☒ Yes ☐ No
COMMENTS/CONCERNS: Parking						

Special Event Notice

Neighborhood Input

CITY OF SCOTTSDALE

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DATE	PRINTED NAME	TITLE (Owner, Manager, etc.)	EMAIL	BUSINESS NAME & ADDRESS	DID YOU RECEIVE A COPY OF THE SITE PLAN?	CONCERNS?
9/6/24	Debbie Cremonese	Manager	debbie.cremonese@evrealestate.com	Engel + Volkers 7025 E Via Soleri Dr #125 Scottsdale AZ 85251	☒ Yes ☐ No	☐ Yes ☒ No
COMMENTS/CONCERNS:						
9/12	Victor Castro	Manager	victor.castro@marktaylor.com	7025 E Via Soleri Dr	☒ Yes ☐ No	☐ Yes ☒ No
COMMENTS/CONCERNS:						
9/12	Cheryl Netto	Manager	Cheryl@LDVwinery.com	7134 Stetson B-110	☒ Yes ☐ No	☐ Yes ☒ No
COMMENTS/CONCERNS:						
					☐ Yes ☐ No	☐ Yes ☐ No
COMMENTS/CONCERNS:						