



# CITY OF SYRACUSE PUBLIC ART APPLICATION

Project Title: \_\_\_\_\_

Installation Type:

- \_\_\_\_\_ Donation to permanent art collection
- \_\_\_\_\_ Temporary installation
- \_\_\_\_\_ Proposed date and duration of installation: \_\_\_\_\_
- \_\_\_\_\_ Mural on private property

Installation Location

Property Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

Location Description [e.g., 15 ft. from building entrance]: \_\_\_\_\_

Artwork Type [e.g., sculpture, mural, video]: \_\_\_\_\_

Artwork Description [include fabrication date; medium, dimensions, materials and finishes]:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Artist

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Current Owner (if applicable)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Applicant

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Signature: \_\_\_\_\_ Date \_\_\_\_\_

PROJECT MANUAL

# 'CURRENT'

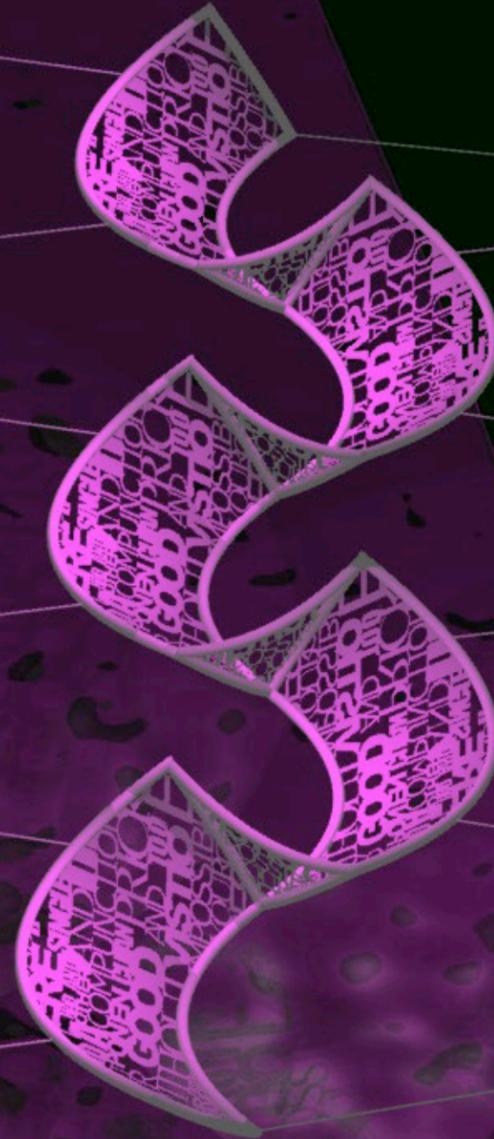
PUBLIC ART FOR SYRACUSE CONNECTIVE CORRIDOR  
ONONDAGA CREEK, SYRACUSE, NY  
(BETWEEN NANCY CANTOR WAREHOUSE AND  
ONONDAGA CREEKWALK)

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Construction Docs Submittal  
Documentation



PUBLIC ART BY  
BLESSING HANCOCK  
SKYRIM STUDIO INC



**ARTWORK NARRATIVE**

*Current* is a vibrant, suspended sculpture that floats over the Onondaga Creek at the renovated Nancy Cantor Warehouse. The artwork highlights connections between the historic origins of Syracuse and the various contemporary fields of study taking place at the Warehouse. The artwork consists of a series curved panels that are arranged into a flowing network of information. By working with SU Warehouse design students and the Onondaga Historical Association, I aim to create new visual associations between the creek and the design school, revealing the historic and contemporary connections of the site.

Finding correlations between history and the contemporary world can be a complex network of factors with overlapping affinities – not unlike what is seen in the population of SU Design School and the Syracuse community. *Current* celebrates these complex associations by emphasizing the value of new perspectives and viewpoints within the Syracuse environment.

*Current* establishes an informal learning environment that invites visitors to construct their own connections between history and the present. The artwork title, *Current*, draws on the similitude and correspondence of the site as a whole. Whether referring to the ‘current’ (flow and circulation) of the Onondaga Creek or the design school’s ‘current’ (modern, fashionable) curriculum emphasis.

The surface pattern of the artwork will reflect the communities voice in regards to the historic creek and the contemporary design school. The merging of these two narratives will create a third topic of conversation, offering an ever-changing visual experience based on point-of-view. The project explores how the interests of history and the present can be incorporated into contemporary art.

The addition of public art at the Onondaga Creek and Warehouse crossroads is an important identity marker and *Current* helps to define this character for the city. The sculpture establishes an eye-

catching element that can be seen from many vantage points. *Current* compliments the industrial architecture as well as the organic geometries of the water and vegetation.

The artwork is a welcoming symbol for the Connective Corridor and relates to the identity and vision of SU Design School and Onondaga Historical Association. During the day sunbeams will illuminate the many surfaces of the sculpture creating a soft, diffused shimmer. At night, color changing LED lighting will illuminate the artwork and surrounding area.

The sculpture also invites exploration and discovery through the inclusion of custom text collected from the local community. These phrases will emphasize learning and discovery as a fundamental aspect of the site’s experience. By providing a permanent canvas for the expression of historic Syracuse interests and contemporary SU design related topics, the ‘current’ story of the Connective Corridor is told.

**STRUCTURAL ENGINEERING**

Structural support and anchoring systems have been designed for final weight loads and safety performance by a licensed structural engineer. The size, weight, height, materials and anchoring points are included in the technical drawings. Engineer licensed in the State of NY will stamp and sign plans, and indemnify City of Syracuse.

**PLACEMENT AND ANCHORING:** *Current* is suspended over the Onondaga Creek between Fayette St (Southern boarder) and the Onondaga Pedestrian Bridge (Northern boarder). The artwork anchors to the SU Warehouse to the West and the Onondaga Creekwalk retaining wall to the East. The site measures approx. 50’ W x 100’ L, final dimensions will be determined during an on-site visit. (8) Stainless steel plates will be anchored to the warehouse (below window bank) and the creek walk retaining wall to accommodate the steel cabling system. (5) Lighting fixtures will also be mounted to these side walls for ease of maintenance.

**DIMENSIONS**

28’L x 2.5’H x 8’W

**ELECTRICAL PROVISION**

Electrical provision to the site will be provided by the City of Syracuse. There will be a MOU between the City and SU for power from SU.

**COMMUNITY ENGAGEMENT**

Engaging the local community in the creative process is an important aspect of my artwork. Through this commission I have worked with the college and surrounding community to create a platform for the submittal of text that has been included in the artwork.

I worked closely with project administration on this engagement opportunity to ensure the text fully represents the values of the community. Through this process students and the local residents will feel connected to the sculpture and understand their contribution. Visitors will enjoy reading the words and phrases on *Current*’s many surfaces.

**PROJECT MANUAL**

As part of this public art contract I am creating a thorough project manual that covers materials and maintenance of the artwork. I will leave this with the client following installation.

**INSTALLATION METHOD**

Preliminary installation plan involves a high-reach and scaffolding. Installation crew will make a site visit prior to installation to work out complete installation details.

**MATERIALS and MAINTENANCE**

See pg5

NOTES:

**CONNECTIVE CORRIDOR  
PROJECT MANUAL**

**PROJECT DESCRIPTION**

**ARTIST TEAM**

**Artist**

Blessing Hancock, B.F.A., M.L.A.  
Skyrim Studio Inc, Owner  
www.blessinghancock.com  
520.275.9174  
blessing@blessinghancock.com  
PO Box 36593, Tucson, AZ 85740

**Structural Engineer**

Dale Hendsbee  
S.E., LEED AP, Principal  
Mesiti-Miller Engineering, Inc  
www.m-me.com  
831-426-3186  
dale@m-me.com  
224 Walnut Ave, Suite B  
Santa Cruz, CA 95060

**Fabricator/Installation Contractor**

Mark Sabatino, Owner  
Gizmo Art Production, Inc  
www.gizmosf.com  
415-577-5061  
mark@gizmosf.com  
1315 Egbert Ave  
San Francisco, CA 94124

**PROJECT TEAM**

**Connective Corridor Project Coordinator**

Quinton Fletchall  
qdfletch@syr.edu  
646.306.2723

**Division of City Planning Public Art Coordinator**

Kate Elliot Auwaerter  
kauwaerter@syr.gov.net  
315.448.8108

**Assistant Director for City Planning**

Owen Kerney  
okerney@syr.gov.net  
315.448.8110

**Connective Corridor Public Art Class Instructor**

Professor Tom Inglis Hall  
tominglishall@gmail.com

**BUDGET BREAKDOWN**

Artist Fee	\$17,000
Project Consultants	\$13,000
Materials and Fabrication	\$36,000
Transportation/Installation	\$18,000
Insurance	\$1,000
Studio Rent/Overhead	\$2,000
Travel/Engagement	\$3,000
Project Contingency	\$10,000
<hr/>	
Total	\$100,000

**SUBMITTAL/PAYMENT BREAKDOWN**

Submittal 1 - Execution of Contract	\$5000 (5% invoice)
Submittal 2 - Project Overview/Initial Site Approval	\$5000 (5% invoice)
Submittal 3 - Preliminary Design Submittal	\$5000 (5% invoice)
Submittal 4 - Final Design Submittal	\$5000 (5% invoice)
Submittal 5 - 50% fabrication completion	\$40,000 (40% invoice)
Submittal 6 - 100% fabrication/Install Plan	\$30,000 (30% invoice)
Submittal 7 - Installation/Maintenance Manual	\$10,000 (10% invoice)
<hr/>	
\$100,000 Total	

NOTES:

**CONNECTIVE CORRIDOR  
PROJECT MANUAL**

**PROJECT CONTACTS  
BUDGET BREAKDOWN**

PROJECT STEPS	PURPOSE	COORDINATION	ARTIST DELIVERABLES	DURATION	COMPLETE	NOTES:
SUBMITTAL 1	Execution Of Contract	Artist, Project Manager, Insurance Agency	1. Signed Contract 2. Insurance Certificates 3. W9 Form 4. Invoice Submission \$5000	July1 - Oct15 2015	X	INSTALLATION SCHEDULE MAY CHANGE DUE TO WATER LEVELS.
SUBMITTAL 2	Project Overview and Initial Site Approval	Artist, Project Manager, Project Team	1. Overview of Proposed Artwork 2. Timeline to Design, Fabricate and Install 3. Written Approval to Develop Concept Design 4. Invoice Submission \$5000	Oct15 - Nov17 2015	X	
SUBMITTAL 3	Preliminary Design Concept Submittal/Presentation	Artist, Project Manager, Structural Engineer, Fabricators, Subcontractors, Project Team	1. Preliminary Dimensioned Site Plan 2. Preliminary Artwork Description 3. Preliminary Structural Considerations 4. Preliminary Maintenance + Safety Considerations 5. Preliminary Installation Considerations 6. Preliminary Budget Breakdown 7. Approval to Develop Final Concept Design 8. Lecture or workshop at Syracuse University 9. Invoice Submission \$5000	Nov17 - Dec29 2015	X	
COMMUNITY ENGAGEMENT ACTIVITY	Engagement Documentation	Artist, Project Manager, Project Team, Public	1. Facilitation of community engagement activity and submittal process.	Jan21 - 22 2016	X	
SUBMITTAL 4	Final Design Concept Submittal/Presentation	Artist, Project Manager, Structural Engineer, Fabricators, Subcontractors, Project Team	1. Final Dimensioned Site Plan 2. Final Artwork Description 3. Final Structural Considerations 4. Final Maintenance + Safety Considerations 5. Final Site Prep Considerations 6. Final Budget Breakdown 7. Approval to Begin Fabrication and Installation 8. Invoice Submission \$5000	May 10th 2016	CURRENT	
BEGIN FABRICATION	Fabrication Documentation	Artist, Fabricators	1. Confirmation that fabrication has begun	June, 2016		
SUBMITTAL 5	Fabrication Documentation	Artist, Fabricators	1. Confirmation that fabrication is 50% complete 2. Final Installation Considerations 3. Invoice Submission \$40,000	July 2016		
SUBMITTAL 6	Fabrication Documentation	Artist, Fabricators	1. Confirmation that fabrication is 100% complete 2. Invoice Submission \$30,000	Aug 2016		
SHIPMENTS ARRIVE	Shipping Documentation	Artist, Project Manager, Fabricators, Receiving Agent, Shipping Company	1. Confirmation that shipment has arrived in satisfactory condition	end Aug/early Sept, 2016		
SITE PREP	Site Prep Documentation	Artist, Project Manager, Subcontractors	1. Confirmation that site prep is completed to specifications	end Aug/early Sept, 2016		
INSTALLATION	Installation Documentation	Artist, Project Manager, Subcontractors	1. Confirmation that installation has been completed to specifications	end Aug/early Sept 2016		CONNECTIVE CORRIDOR PROJECT MANUAL
SUBMITTAL 7	Installation Complete/ Final Documentation	Artist, Project Manager	1. Documentation for complete fabrication and installation of all Artwork components. 2. Invoice Submission \$30,000	Sept 2016		
page 4						

**MATERIALS USED**

**(SEE TECHNICAL DOCS FOR ADDITIONAL INFO)**

1. Sculpture

11 Ga (.12" Thick) Stainless Steel 316L Alloy

2.5" Sched 40 Pipe (2.875" Od)

1" 316L Baseplate, Souce: Tbd

Hardware

(8) 7/16" Ss Wire Rope

5/16" Ss D Shackles

1/2" Ss Wire Rope Clips

Ss Swedged Thimbles And Turnbuckles

1 X 1.5 X .25" Ss Hanging Tabs

Supplied and installed by Gizmo Art Production.

2. Lighting and Electrical

Light Fixtures (5): Diode Led Sphere-Star

Led Spotlight

Source:tbd

Life Expectancy: 10 years

Supplied and installed by Gizmo Art Production.

Transformer: TBD

Source: Super Bright LEDs, St. Louis, MO

Supplied and installed by Gizmo Art Production.

Timer: TBD

Source: WattStopper

Supplied and installed by Gizmo Art Production.

Electrical Supply, Conduit and Wiring to Sculpture:

Power will be supplied by Syracuse University via the SU Warehouse with a shutoff on the exterior of the building. At the request of the University, any work on the Warehouse will be done by REK, and this includes the conduit.

3. Mounting Plates

(8) 6 1/2"X8 1/2"X 1/2" Thick Ss Plates

(4/Plate) 1/2" X 7 1/2" Ss Threaded Rod

W/ 6" Embedment In Simpson Set Xp Epoxy

Source: Gizmo Art Production

Specifications: see structural notes in technical design set approved by licensed structural engineer.

**MATERIAL FINISH**

1st step: 36 grit sanding disc on angle grinder

2nd step: 40 grit random orbit sanding disc

3rd step: Coarse Scotch-Brite random orbit

Finish by Gizmo Art Production

**FABRICATION**

Gizmo Art Production will fabricate the stainless steel sculpture. Stainless steel sheets are water jet cut and positioned into the 3D shape. Using wood jigs, they formed the metal and MIG welded the panels together. They ground the welds and finished the surface. They sourced the lights, connected the electronics and tested the lighting.

**ENVIRONMENTAL FACTORS**

The sculptures are made of stainless steel and are very durable and corrosion resistant. The stainless steel is extremely strong and will not be easily damaged. Natural aging is acceptable for these sculptures including natural wear from human interaction.

**ROUTINE MAINTENANCE**

These sculptures require little routine maintenance. Sculptures could be hosed down to remove dirt. Clean and remove excess debris as necessary. A careful maintenance person can complete this work.

LED lighting:

If light is not working:

1. Check timer.
2. Check power to transformer.
3. Check output of transformer.
4. Check power at fixture.
5. Install replacement fixture.

LED instructions will be provided.

**CYCLIC MAINTENANCE**

In ten years, the LED lighting will likely need to be removed and updated. The lighting can be removed from the side walls of the sculpture site. At that time, we grant permission to the city to update the lights using the latest LED lighting technology.

**CONSERVATION**

Skilled metal workers or art fabrication/refurbishing company could complete any structural repairs.

NOTES:



ART PRODUCTION, INC.

1315 Egbert Avenue  
San Francisco, CA 94124  
t: 415-222-6181  
f: 415-222-6186  
w: www.gizmosf.com

**CURRENTS  
BY BLESSING HANCOCK**  
ONONDAGA CREEK AT W FAYETTE ST  
SYRACUSE, NY 13202

Start Date:  
4/13/2016 4:01:08 PM

Last Saved:  
5/9/2016 3:54:31 PM

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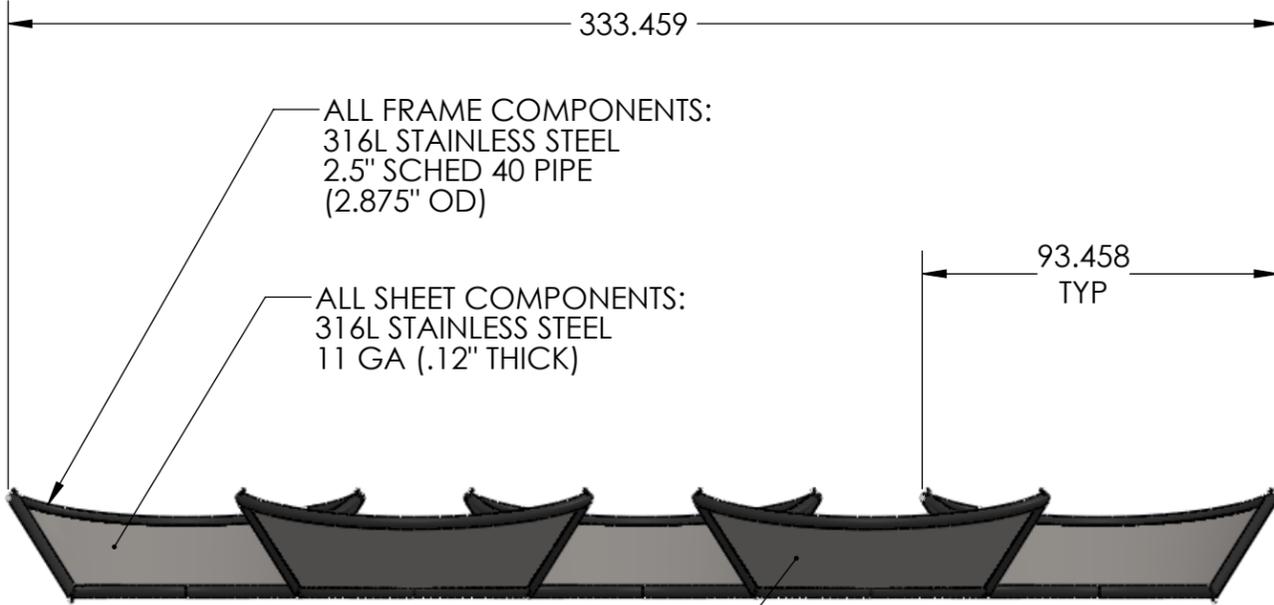
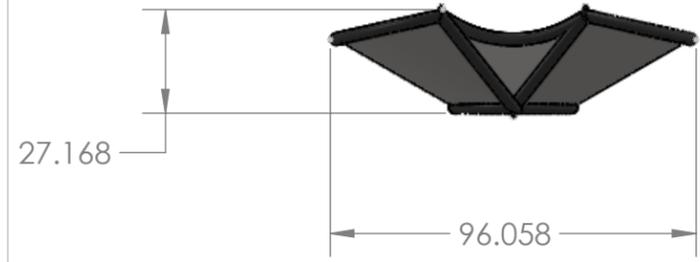
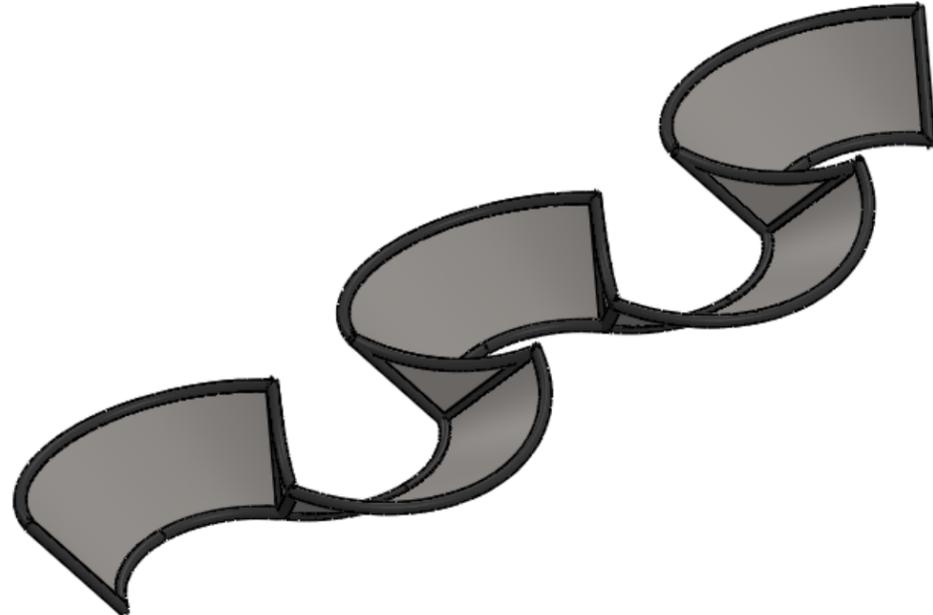
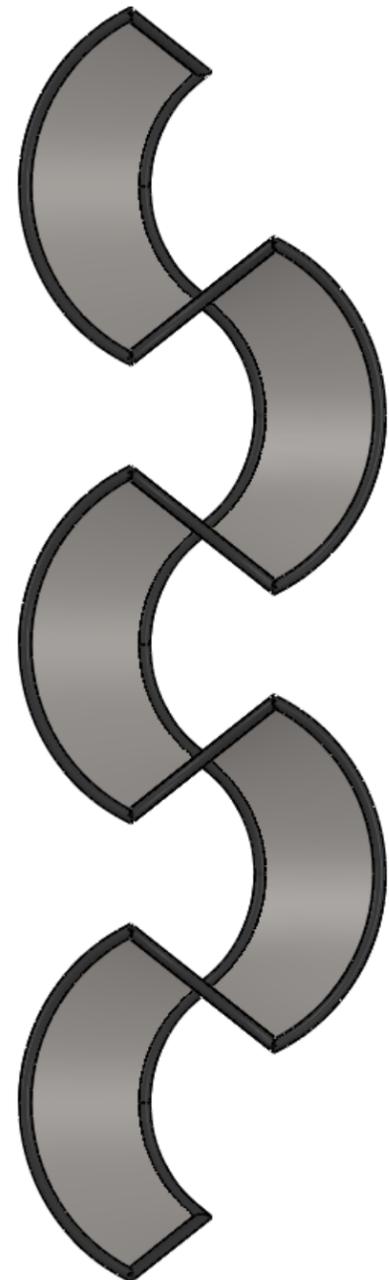
Job Number:  
1600

Scale, Unless Noted:  
1/4"=1'  
ALL DIMS IN INCHES

Sheet #:

1-1

Release to Build:



ALL FRAME COMPONENTS:  
316L STAINLESS STEEL  
2.5" SCHED 40 PIPE  
(2.875" OD)

ALL SHEET COMPONENTS:  
316L STAINLESS STEEL  
11 GA (.12" THICK)

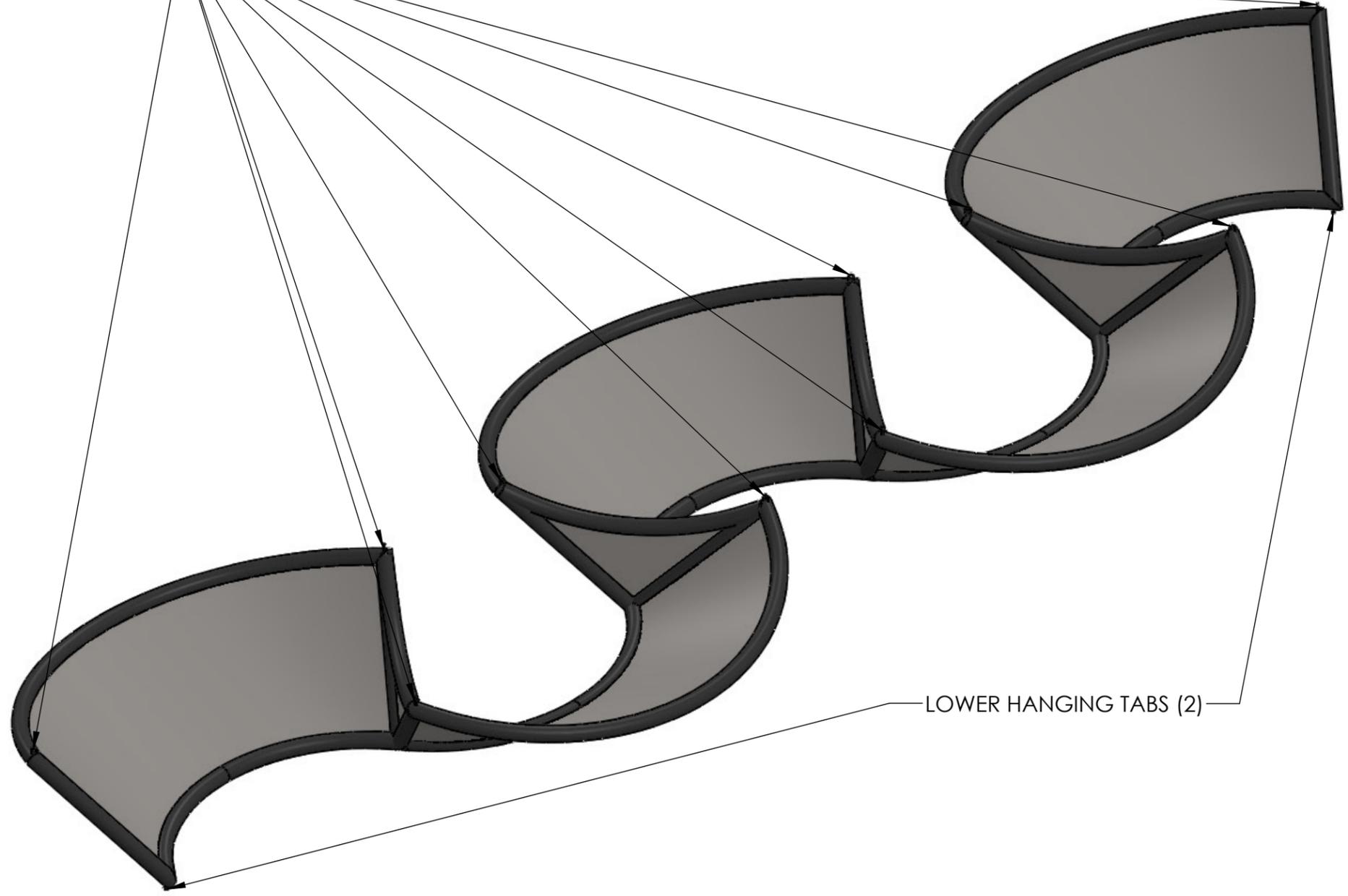
ALL SHEETS WILL HAVE WATERJET  
CUT ARTWORK, REMOVING  
APPROXIMATELY 65% MATERIAL



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UPPER HANGING  
TABS (10)



LOWER HANGING TABS (2)

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**BY BLESSING HANCOCK**  
ONONDAGA CREEK AT W FAYETTE ST  
SYRACUSE, NY 13202

Start Date:  
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Job Number:  
1600

Scale, Unless Noted:  
1/2"=1'  
ALL DIMS IN INCHES

Sheet #:  
  
1-2

Release to Build:



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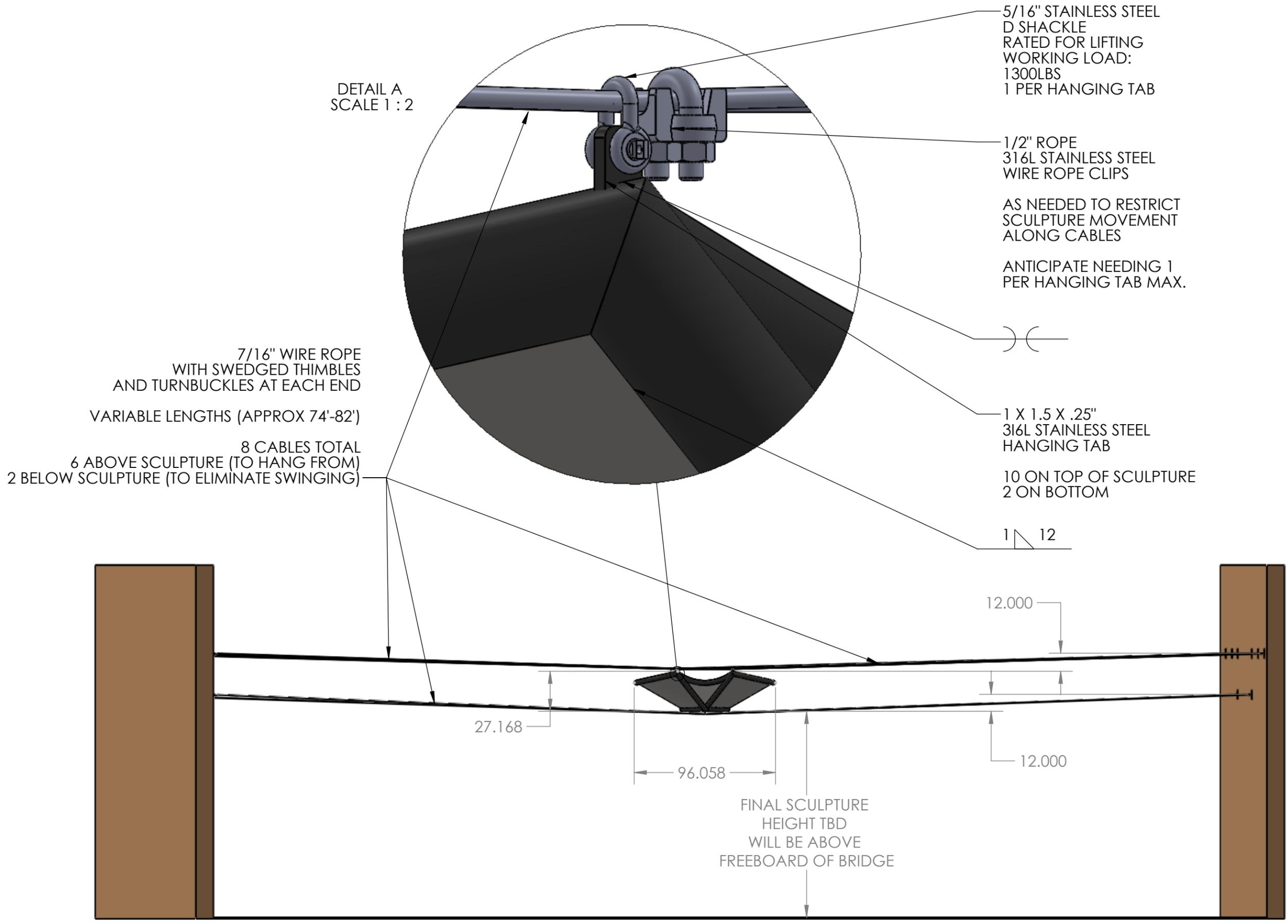
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Job Number:  
 1600

Scale, Unless Noted:  
 3/16"=1'  
 ALL DIMS IN INCHES

Sheet #:  
 1-3

Release to Build:



DETAIL A  
 SCALE 1 : 2

5/16" STAINLESS STEEL  
 D SHACKLE  
 RATED FOR LIFTING  
 WORKING LOAD:  
 1300LBS  
 1 PER HANGING TAB

1/2" ROPE  
 316L STAINLESS STEEL  
 WIRE ROPE CLIPS

AS NEEDED TO RESTRICT  
 SCULPTURE MOVEMENT  
 ALONG CABLES

ANTICIPATE NEEDING 1  
 PER HANGING TAB MAX.

1 X 1.5 X .25"  
 316L STAINLESS STEEL  
 HANGING TAB

10 ON TOP OF SCULPTURE  
 2 ON BOTTOM

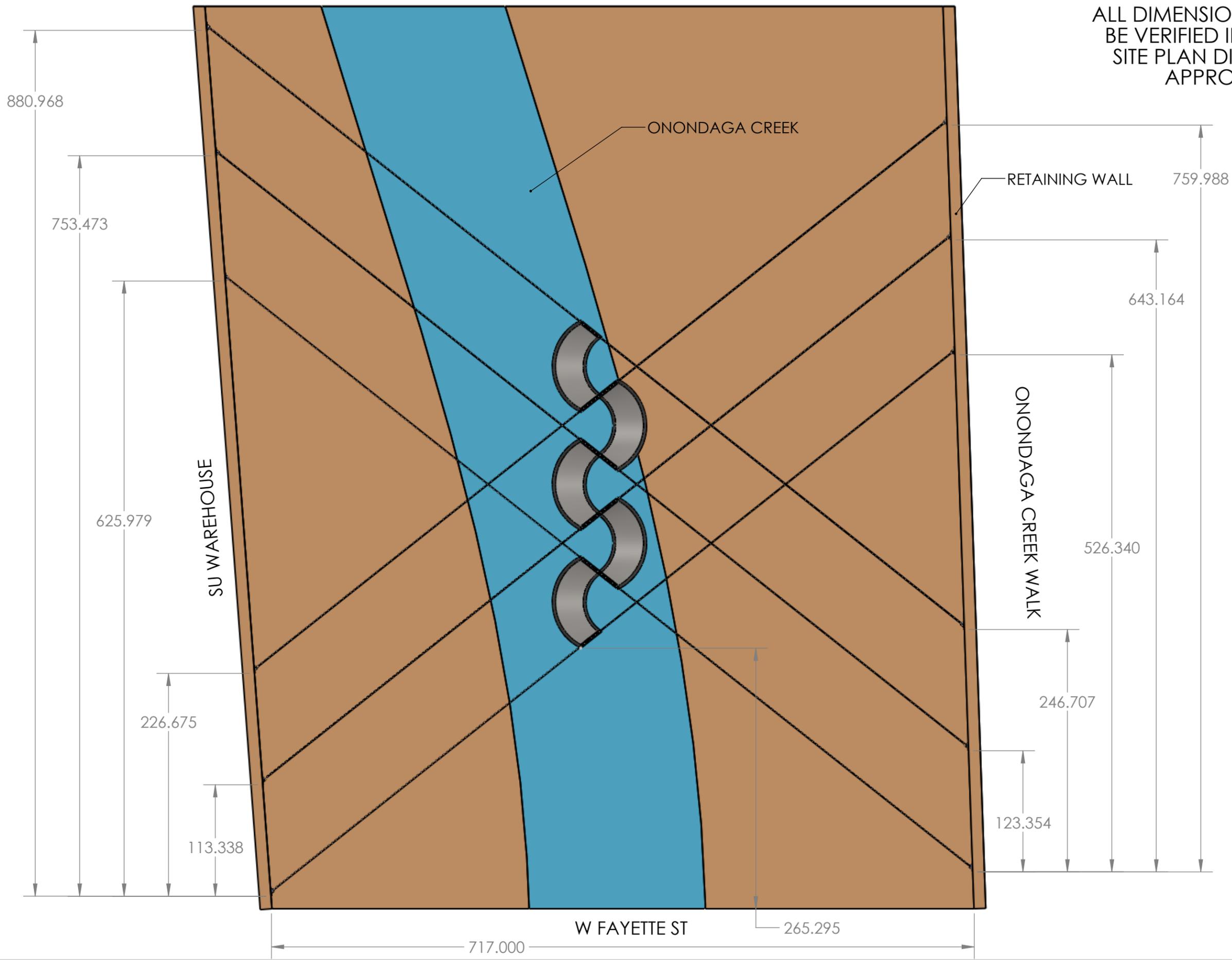
1 \ 12

7/16" WIRE ROPE  
 WITH SWEDGED THIMBLES  
 AND TURNBUCKLES AT EACH END

VARIABLE LENGTHS (APPROX 74'-82')

8 CABLES TOTAL  
 6 ABOVE SCULPTURE (TO HANG FROM)  
 2 BELOW SCULPTURE (TO ELIMINATE SWINGING)

FINAL SCULPTURE  
 HEIGHT TBD  
 WILL BE ABOVE  
 FREEBOARD OF BRIDGE



ALL DIMENSIONS WILL  
BE VERIFIED IN FEILD:  
SITE PLAN DIMS ARE  
APPROXIMATE



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Start Date:  
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Job Number:  
1600

Scale, Unless Noted:  
1/8"=1'  
ALL DIMS IN INCHES

Sheet #:  
**1-4**



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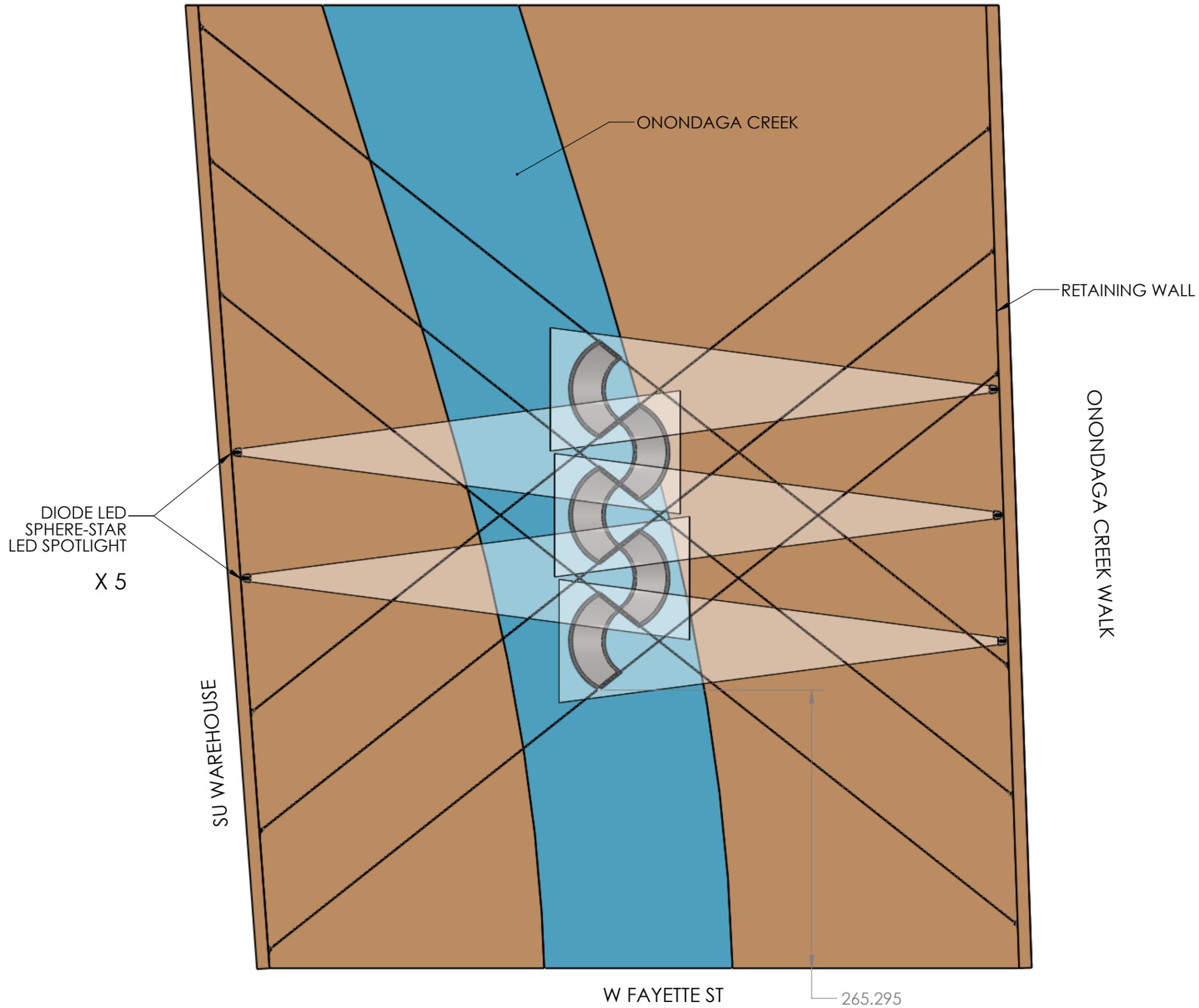
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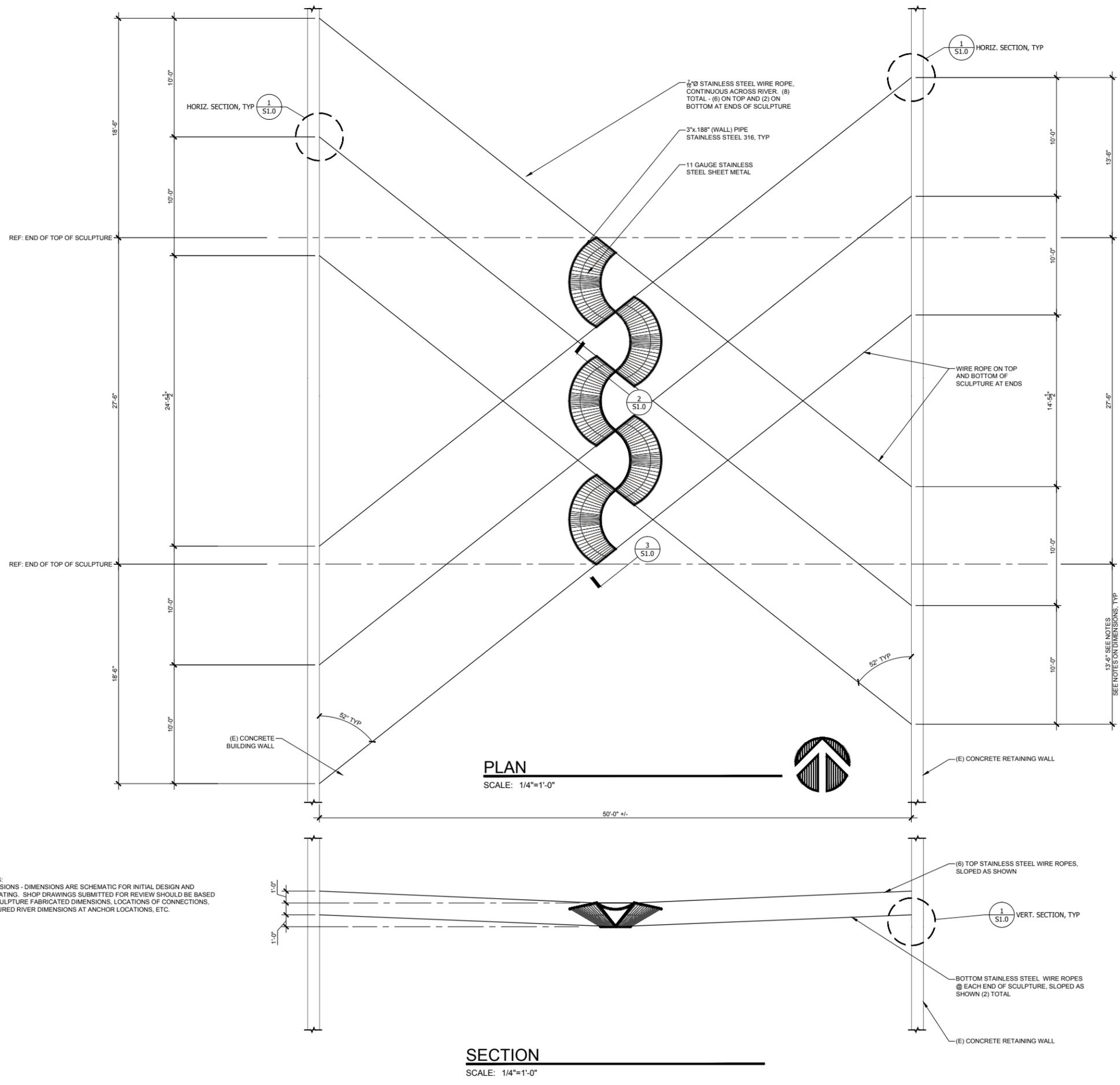
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1-5

Release to Build:







NOTES:  
 DIMENSIONS - DIMENSIONS ARE SCHEMATIC FOR INITIAL DESIGN AND ESTIMATING. SHOP DRAWINGS SUBMITTED FOR REVIEW SHOULD BE BASED ON SCULPTURE FABRICATED DIMENSIONS. LOCATIONS OF CONNECTIONS, MEASURED RIVER DIMENSIONS AT ANCHOR LOCATIONS, ETC.

**PRELIMINARY NOT FOR CONSTRUCTION**

SE FOR THE "CURRENT" SCULPTURE CONNECTIVE CORRIDOR PROJECT

PLAN SECTIONS

DRAWN BY: RR  
 CHECKED BY: DH  
 JOB NUMBER: 18110  
 SHEET

**S2.0**  
 page 12

**Mesiti-Miller Engineering, Inc.**  
 Civil and Structural Engineering  
 254 Walnut Avenue, Suite B4 Santa Cruz, CA 95060  
 Phone: 831-425-2323 Text & Fax: 831-425-6027

REV	DESCRIPTION	BY	DATE
Δ	RELEASED FOR CLIENT REVIEW ONLY	RR	03/02/2016
Δ	RELEASED FOR CLIENT REVIEW	RR	03/14/2016

THE TAPESTRY OF  
IN PLACE WORKING  
TIME EXPERIENCE  
NESTLED INTO UPSTATE  
ITS LITTLE NEW YORK LOOK IN  
DECORATIVE TAKING  
CITY IN OUTSIDER  
ART LAM

IS PIERCING THE  
PAST LIGHT MIGHT BE A  
COLD DAYS  
BEGINNING INDUSTRY  
WAS ONCE SYRACUSE MAJOR  
MOVED AWAY BECAME  
MID RESTORED  
I SEE

ONE CONNECTION AS A  
REFUGEE INTO  
DWELLING REVIVAL  
ON ENERGY WELCOME THIS  
EDUCATION JUSTICE CREATIVE  
ACULTURE RECONCILIATION  
ONONDAGA DIVERSITY CULTURE  
LIFE OF RENEWAL  
LET OF

CANAL  
LET  
GO

LIGHT  
SEASONS  
OF

SOLVE  
BETTER  
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WATER  
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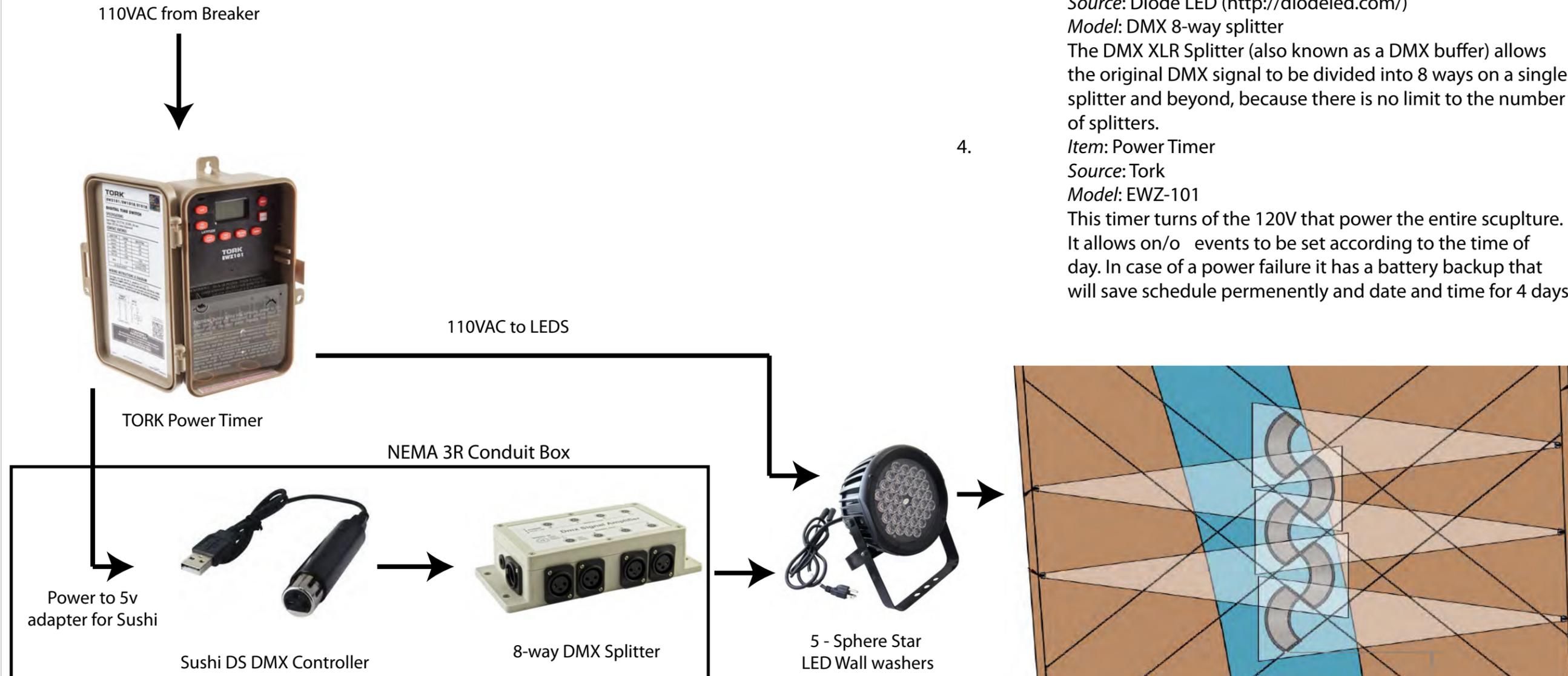
NO  
ON  
ANOTHER  
THIS  
ON A STREET CORNER  
AGROUP YOUNG PEOPLE  
IN TALKING SCAR 081  
GEOGRAPHY  
THE  
NO  
AN OBSERVER IN

IN  
MOVING  
LAKES  
OF EMPTINESS OR TOWARD  
ABUNDING RECLAIMED  
AN IMPORTANCE IN HABITANTS  
THEY  
ONCE  
AT  
IN ABANDON ALL  
TRANSFORM  
LIVING

# Wiring Diagram

## Specifications

In order for power and DMX to connect to all 5 lights, conduit will have to be run between each fixture. This includes a conduit run from one side of the bridge to the other. There will be a watertight NEMA 3R box and a power timer that will be mounted to the SU warehouse wall. Power will run into the timer and from the timer out to the lights and into a NEMA 3R watertight box that will house the controller and splitter. DMX will run out of the NEMA box to all the lights.



## Lighting and Electrical Components

- Item:** LED Spotlight  
**Source:** Diode LED (<http://diodeled.com/>)  
**Model:** Star Sphere  
 Light and fixture are IP65 rated, Beam angle is 15degree with a coverage distance of over 65 feet. fixture has built in DMX and only requires, DMX and 110v power to work.
- Item:** DMX Controller  
**Source:** Nicolaudie Group ([www.dmxsoft.com](http://www.dmxsoft.com))  
**Model:** Sushi-DS  
 One of the most compact controllers made, it is able to store scenes internally and run standalone with one a 5v adapter. This unit will be programmed and installed within a watertight box.
- Item:** DMX splitter  
**Source:** Diode LED (<http://diodeled.com/>)  
**Model:** DMX 8-way splitter  
 The DMX XLR Splitter (also known as a DMX buffer) allows the original DMX signal to be divided into 8 ways on a single splitter and beyond, because there is no limit to the number of splitters.
- Item:** Power Timer  
**Source:** Tork  
**Model:** EWZ-101  
 This timer turns of the 120V that power the entire sculpture. It allows on/o events to be set according to the time of day. In case of a power failure it has a battery backup that will save schedule permanently and date and time for 4 days.



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CURRENTS  
 SKYRIM STUDIOS, INC  
 DESIGNED FOR:  
 ONONDA CREEK AT W FAYETTE ST  
 SYRACUSE, NY 13202

Start Date:  
 4/18/16

Last Saved:  
 4/18/16

Drawn By:  
 CS

Job Number:  
 1600

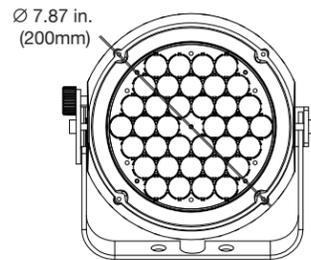
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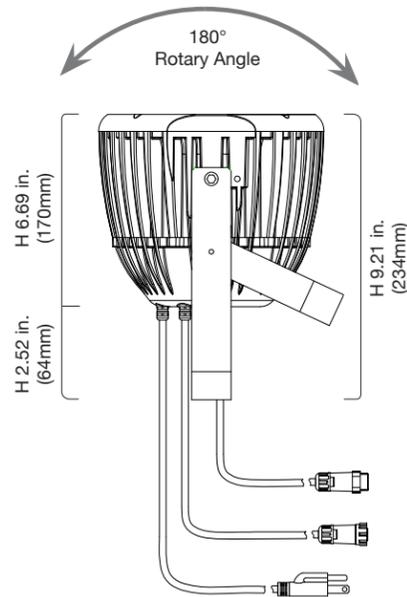


# SPHERE-STAR™ LED WALL WASHER

- Aluminum body & tempered glass
- IP65 wet/outdoor
- 180° rotary angle
- Wall and ceiling mountable.
- DMX-512 controllable



Ø 7.87 in.  
(200mm)



180°  
Rotary Angle

H 6.69 in.  
(170mm)

H 9.21 in.  
(234mm)



## SPECIFICATION SHEET



### SPECIFICATIONS

**Input Voltage**<sup>1</sup>: 100-256VAC, 50/60Hz  
**Power Connection**: AC power plug (56 in. length)  
**Operating Voltage**: 24V DC  
**Power Consumption**: 53.5W  
**LED Chip Type**: Edison  
**LED Chip Beam Angle**: 15°  
**CRI**: 70 (6000K)  
**Mounting**<sup>2</sup>: Removable rotary 180° surface-mount bracket w/ (3x) 1/2 in. mounting holes  
 Wall & ceiling mountable  
**Maximum Run**: 10 fixtures (expandable with use of 8-Way DMX Splitter)  
**Connections**: 1ea. male/female wet location 3-pin M14 cables (15 in. length). M14-to-XLR-3 adapter cables also included

**Dimmable**<sup>3</sup>: May be dimmed/controlled using on-board controls or with a compatible DMX-512 controller  
**Ambient Temp**<sup>4</sup>: -4° ~ 104° F (-20° ~ 40° C)  
**Operating Temp**<sup>5</sup>: -4° ~ 131° F (-20° ~ 55° C)  
**Housing / Cooling**: Aluminum casing; tempered glass / cooling by free air convection  
**Environment**<sup>6</sup>: IP65 wet/outdoor  
**Dimensions**: 7.87 x 9.21 in. (DIA x H)  
**Weight**: 8.82 lbs.  
**Certifications**: UL Listed (US & Canada) ANSI/UL 153, ANSI/UL 8750 - Light Emitting Diode Luminaires, Portable. E466305

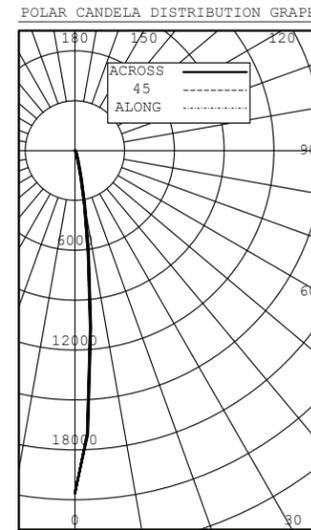
Item #	CCT (Kelvin)	Lumens <sup>7</sup>	LED Chips	Efficacy <sup>8</sup> (lm/W)
DI-0471	-	1326	R=12, B=12, G=12	24.8
DI-0475	6000K	2467	36	45.9

- Note**<sup>1</sup> Only UL Listed for connection with a 120VAC, 15- or 20-ampere branch circuit.  
**Note**<sup>2</sup> When mounting to walls and ceilings, use applicable lag bolts and consider the strength of these surfaces versus the weight of the fixture.  
**Note**<sup>3</sup> Not compatible with standard High Voltage AC dimming controls.  
**Note**<sup>4</sup> Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.  
**Note**<sup>5</sup> Operating temperature is measured according to the minimum and maximum ambient temperature environment.  
**Note**<sup>6</sup> When installing outdoors or in a damp location, ensure water-resistant end caps are connected to all wet location 3-pin M14 cables. If attaching XLR-3 DMX adapter cables seal all standard XLR-3 connections with 1.25" heat shrink and finish with waterproof tape (not included). Do not use liquid sealants of any kind.  
**Note**<sup>7</sup> Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.  
**Note**<sup>8</sup> Efficacy value referenced from IES LM-79-08.

Item #:		Project:	
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### PHOTOMETRICS\*

#### SPHERE-STAR™ RGB DI-0471



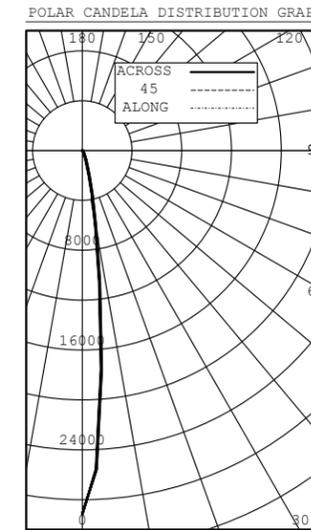
ANGLE	MEAN CP
0	20599
5	10699
10	3326
15	899
20	367
25	231
30	163
35	87
40	55
45	41
50	29
55	20
60	14
65	9
70	6
75	3
80	1
85	0
90	0

#### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1206	90.92
0-40	1264	95.31
0-60	1314	99.06
0-90	1326	100.00
40-90	62	4.69
60-90	12	0.94
90-180	0	0.00
0-180	1326	100.00

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1290	0.721
6.00	572	1.08
8.00	322	1.44
10.0	206	1.80
12.0	143	2.16
14.0	105	2.52
16.0	80.5	2.89

#### SPHERE-STAR™ 6000K DI-0475



ANGLE	MEAN CP
0	29138
5	17625
10	6197
15	2158
20	918
25	470
30	285
35	192
40	136
45	99
50	68
55	45
60	30
65	21
70	13
75	7
80	2
85	0
90	0

#### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	2198	89.10
0-40	2320	94.07
0-60	2438	98.84
0-90	2467	100.00
40-90	146	5.93
60-90	29	1.16
90-180	0	0.00
0-180	2467	100.00

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1820	0.842
6.00	809	1.26
8.00	455	1.68
10.0	291	2.11
12.0	202	2.53
14.0	149	2.95
16.0	114	3.37

\* Photometric data complies with LM-79-08, ANSI C82.77-02.

NOTES:

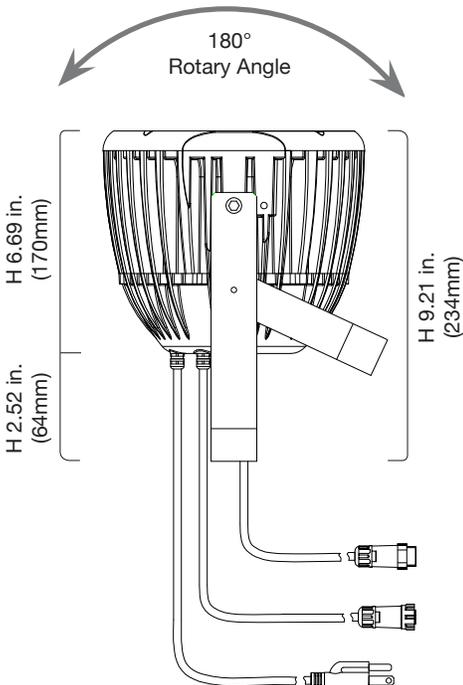
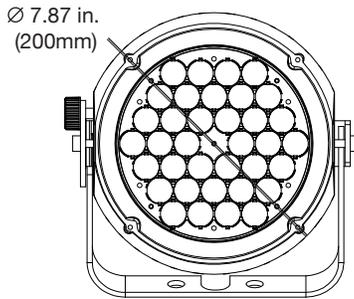
CONNECTIVE CORRIDOR  
PROJECT MANUAL

LIGHTING SPEC

**SPHERE-STAR™ LED WALL WASHER**

**SPECIFICATION SHEET**

- Aluminum body & tempered glass
- IP65 wet/outdoor
- 180° rotary angle
- Wall and ceiling mountable.
- DMX-512 controllable



**SPECIFICATIONS**

**Input Voltage** <sup>1</sup>: 100-256VAC, 50/60Hz  
**Power Connection**: AC power plug (56 in. length)  
**Operating Voltage**: 24V DC  
**Power Consumption**: 53.5W  
**LED Chip Type**: Edison  
**LED Chip Beam Angle**: 15°  
**CRI**: 70 (6000K)  
**Mounting** <sup>2</sup>: Removable rotary 180° surface-mount bracket w/ (3x) 1/2 in. mounting holes  
 Wall & ceiling mountable  
**Maximum Run**: 10 fixtures (expandable with use of 8-Way DMX Splitter)  
**Connections**: 1ea. male/female wet location 3-pin M14 cables (15 in. length). M14-to-XLR-3 adapter cables also included

**Dimmable** <sup>3</sup>: May be dimmed/controlled using on-board controls or with a compatible DMX-512 controller  
**Ambient Temp** <sup>4</sup>: -4° ~ 104° F (-20° ~ 40° C)  
**Operating Temp** <sup>5</sup>: -4° ~ 131° F (-20° ~ 55° C)  
**Housing / Cooling**: Aluminum casing; tempered glass / cooling by free air convection  
**Environment** <sup>6</sup>: IP65 wet/outdoor  
**Dimensions** <sup>6</sup>: 7.87 x 9.21 in. (DIA x H)  
**Weight**: 8.82 lbs.  
**Certifications**: UL Listed (US & Canada) ANSI/UL 153, ANSI/UL 8750 - Light Emitting Diode Luminaires, Portable. E466305

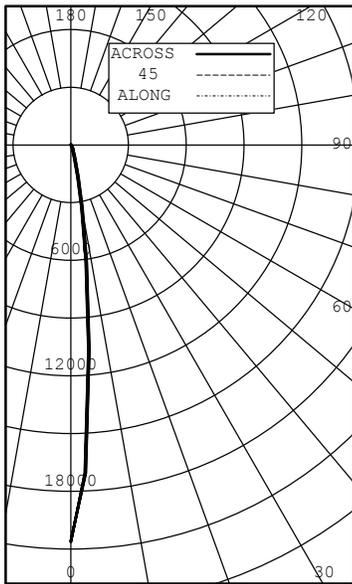
Item #	CCT (Kelvin)	Lumens <sup>7</sup>	LED Chips	Efficacy <sup>8</sup> (lm/W)
DI-0471	-	1326	R=12, B=12, G=12	24.8
DI-0475	6000K	2467	36	45.9

- Note** <sup>1</sup> Only UL Listed for connection with a 120VAC, 15- or 20-ampere branch circuit.  
**Note** <sup>2</sup> When mounting to walls and ceilings, use applicable lag bolts and consider the strength of these surfaces versus the weight of the fixture.  
**Note** <sup>3</sup> Not compatible with standard High Voltage AC dimming controls.  
**Note** <sup>4</sup> Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.  
**Note** <sup>5</sup> Operating temperature is measured according to the minimum and maximum ambient temperature environment.  
**Note** <sup>6</sup> When installing outdoors or in a damp location, ensure water-resistant end caps are connected to all wet location 3-pin M14 cables. If attaching XLR-3 DMX adapter cables seal all standard XLR-3 connections with 1.25" heat shrink and finish with waterproof tape (not included). Do not use liquid sealants of any kind.  
**Note** <sup>7</sup> Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.  
**Note** <sup>8</sup> Efficacy value referenced from IES LM-79-08.

Item #:	Project:
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**SPHERE-STAR™ RGB**  
DI-0471

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY  
BEAM SIDE

ANGLE	MEAN CP
0	20599
5	10699
10	3326
15	899
20	367
25	231
30	163
35	87
40	55
45	41
50	29
55	20
60	14
65	9
70	6
75	3
80	1
85	0
90	0

ZONAL LUMENS AND PERCENTAGES

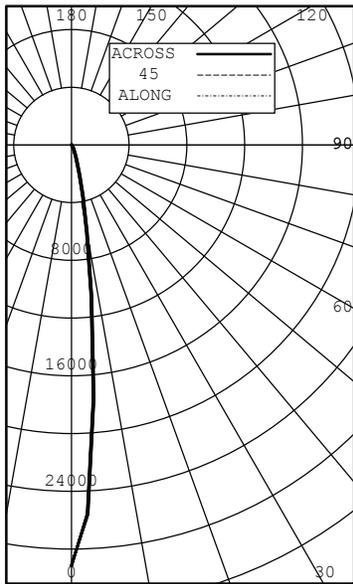
ZONE	LUMENS	% LUMINAIRE
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0-60	1314	99.06
0-90	1326	100.00
40-90	62	4.69
60-90	12	0.94
90-180	0	0.00
0-180	1326	100.00

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	1290	0.721
6.00	572	1.08
8.00	322	1.44
10.0	206	1.80
12.0	143	2.16
14.0	105	2.52
16.0	80.5	2.89

**SPHERE-STAR™ 6000K**  
DI-0475

POLAR CANDELA DISTRIBUTION GRAPH



INTENSITY (CANDLEPOWER) SUMMARY  
BEAM SIDE

ANGLE	MEAN CP
0	29138
5	17625
10	6197
15	2158
20	918
25	470
30	285
35	192
40	136
45	99
50	68
55	45
60	30
65	21
70	13
75	7
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ZONAL LUMENS AND PERCENTAGES

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Cone Of Light Tabulation

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12.0	202	2.53
14.0	149	2.95
16.0	114	3.37

\* Photometric data complies with LM-79-08, ANSI C82.77-02.

## DMX CONTROLLERS

The following DMX Controllers may be utilized with our DMX fixtures and accessories.

Item #	Type	Description	Image
DI-1917	DMX Wi-Fi Wall-Mount Controller	This simple and intuitive DMX controller commands up to four zones with WiFi connectivity to a mobile device.	
DI-1726	Nicolaudie STICK 1 DMX Color Controller	Our most sophisticated unit offers professional-grade DMX512 control in a user-friendly control pad.	
DI-1720	Nicolaudie STICK 2 DMX Color Controller	Sophisticated and modern touch-sensitive keypad selects mode, speed, and dimming.	
DI-1727	Nicolaudie Easy Stand Alone DMX LED Color Controller	Program lighting scenes from a computer to the independent free-standing controller.	
DI-1808-K	SQUARE-PRO Junction Box	Included with the following controllers: DMX WiFi Wall Mount Zone LED Controller, Nicolaudie STICK 1 Controller, and Nicolaudie STICK 2 Controller. Also sold separately. Features 3x 0.5 in. and 5x 0.75 in. knockouts. Dimensions: 2.83 x 1.89 x 2.83 (L x D x H)	

*Note: accessories sold separately*

## DMX ACCESSORIES

The following DMX Accessories may be utilized with our DMX fixtures and controllers.

Item #	Type	Description	Image
DI-1918	DMX 4-Channel Decoder	Pair with a DMX controller to control solid color, RGB, and RGBW LED fixtures. Features a digital display for easy addressing.	
DI-0820 (female) DI-0821 (male)	Wireless DMX Transmitter/Receiver	Wirelessly connects DMX devices: Fixture to fixture, fixture to controller, and decoder to decoder. Features XLR-3 connections.	
DI-1804	DMX 8-Way Splitter	Amplifies and splits a DMX signal up to 8 ways. Features 1x male XLR-3 input connection, and 8x female XLR-3 output connections.	
DI-1803	DMX XLR-3 Connector Pair	Utilize this XLR-3 connector pair to create custom length DMX extensions. Sold by the pair (male/female). Male: 2.8 x .71 in. (L x Dia.). Female: 2.4 x .71 in. (L x Dia.)	
DI-1806	XLR-3 to RJ45 Adapter Connector Pair	Converts RJ45 data cables to XLR-3 DMX connections. Sold by the pair (male/female) Male & Female: 2.58 x .87 x .98 in. (L x W x H)	
DI-1809	20 ft. DMX XLR-3 Extension Cable	Creates an extension between DMX fixtures and accessories. Features XLR-3 connections. Wire: 18/3 AWG. Male connection: 2.8 x .71 in. (L x Dia.) Female: 2.4 x .71 in. (L x Dia.)	
DI-1807	RJ45 Coupler	Female-to-female accessory quickly connects two RJ45 accessories. Dimensions: 1.22 x .44 x .87 in. (L x W x H)	
DI-1805	RJ45 Splice Cable	Lead wires connect to wall-mount DMX controllers while RJ45 plug connects to DMX accessories. Dimensions: 6.5 x .4 x .6 (L x W x H)	
DI-1811	XLR-3 to RJ45 Adapter Cable Pair	Converts RJ45 port of 4-Channel DMX Decoder to a standard XLR-3 connection. Sold by the pair (male/female). Dimensions: 20 x .71 (L x Dia)	
DI-1911	RJ45 Extension Cable	Creates a 10 ft. extension between DMX fixtures and accessories utilizing RJ45 connections.	

*Note: accessories sold separately*

## ADDITIONAL RESOURCES

Visit the online product page at [www.DiodeLED.com](http://www.DiodeLED.com) for additional resources including:

- **WET LOCATION LED WALL WASHER Installation Guide**  
For system diagrams and full installation instructions.
- **Voltage Drop Charts**  
Use to specify appropriate wire gauge for installation. Available at the 'Tools & Resources' page at [www.DiodeLED.com](http://www.DiodeLED.com).

## SAFETY & DISCLOSURES

- Install in accordance with the National Electric Code and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Do not disassemble or modify this product. Doing so will void your warranty.
- This fixture is not compatible with any traditional dimming controls. Wall washers can only be controlled/dimmed with the on-board interface or with an external DMX controller. Please contact customer service for additional information.
- Ensure all adjusting screws on mounting brackets and fixtures are properly secured prior to permanent installation.
- When mounting to walls and ceilings, use applicable lag bolts and consider the strength of these surfaces versus the weight of the fixture.
- It is recommended to power this fixture by a GFCI protected circuit.
- This fixture is IP65 rated.
- When installing outdoors or in a wet location, ensure water-resistant end caps are connected to all exposed wet location 3-pin M14 connections. If attaching XLR-3 adapter cables seal all XLR-3 DMX connections with 1.25" wide heat shrink and finish with waterproof tape (not included). Do not use liquid sealants of any kind.
- This fixture is not to be used in or around chlorinated, treated or salt water due to the corrosive and degrading qualities of chlorine, saline, and other chemicals on the fixture components. Keep at least 16 feet away from pools and spas.
- Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum operating temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- Lighting technology has some amount of gradual light degradation (output and/or color) over the lifespan of the products. Diode LED products are designed to minimize degradation, but some light degradation and color shift is a normal part of the life span of any LED lighting system.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

## WARRANTY INFORMATION

### Limited Warranty

This LED fixture has a two (2) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.DiodeLED.com](http://www.DiodeLED.com) under the 'Tools & Resources' tab. For warranty related questions, please contact customer service.

### Consumer's Acknowledgment

Diode LED stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and in-field adjustments can have a significant impact on an entire system. Choosing the right components is essential. Diode LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Diode LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Diode LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgement that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



Toll Free: 877.817.6028 | Fax: 415.592.1596 | [www.DiodeLED.com](http://www.DiodeLED.com) | [info@DiodeLED.com](mailto:info@DiodeLED.com)  
© 2014 Elemental LED, Inc. All rights reserved. Specifications are subject to change without notice.

# SUSHI datasheet

(SUSHI-DS, SUSHI-RB, SUSHI-RJ)  
Preliminary version, 13 Nov 2014



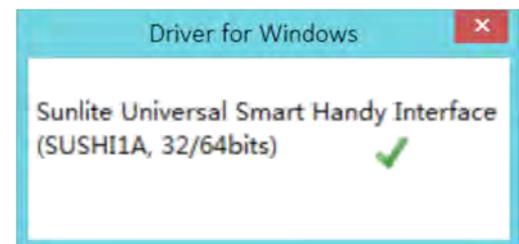
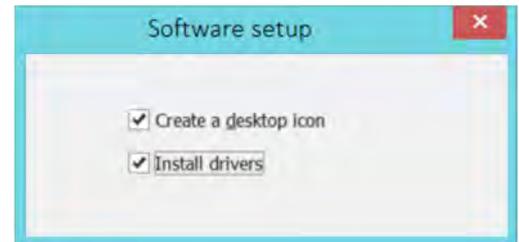
## First instructions to use SUSHI

1) download software from our web site  
[www.dmxsoft.com](http://www.dmxsoft.com) or [www.arcolis.com](http://www.arcolis.com)

2) start software setup  
make sure to select "Install drivers"

3) with the USB cable, plug the SUSHI to the PC  
windows detects the interface

4) start the software, if the SUSHI is recognized  
a small windows appears



### Driver for Windows

USB driver is automatically installed during the software setup.  
We advice to install the software before to plug the USB interface.

### Software for Windows

Easy Stand Alone 1 + Daslight Virtual Controller 1 + Sunlite Suite 2004 + Lumidesk lite  
(free download from [www.dmxsoft.com](http://www.dmxsoft.com) or [www.arcolis.com](http://www.arcolis.com))

### Important notes for Apple Mac users. Out of the package :

- SUSHI-DS and SUSHI-RB/RJ controllers do not include any Mac software.
- myDMX BUDDY controller includes a limited Mac version of myDMX 2.0 software. (No 3D visualizer, No Easy Remote or No Midi features)

Mac software versions will be available to purchase in early 2015. These will include yearly and monthly software and support subscription packages.

# Technical Data

**Input Power:** 5V DC 0.3A

**Output Protocol:** DMX (3 types of connector)

**Output Connector:** XLR 3pin (DS) Block 3 pins (RB) RJ45 8 pins (RJ)

**Number of channels for live/pc use:** 128 (expandable to 512, to purchase in early 2015)

**Number of channels for stand alone use:** 12 (expandable to 512, to purchase in early 2015)

**Programmability:** with PC/Windows (MAC in option, to purchase in early 2015)

**Indicators:** 2 (red/dmx + green/stand alone)

**Button:** 1 (access to next scene in stand alone mode)

**I/O ports:** 2 contact inputs (optional) with RJ version

**Stand Alone Memory:** 1266 steps with 12 channels / 8 scenes

**DMX driver chipset:** SP485ECP-L MAX485CPA+ ADM485JNZ

**Temperature:** -10 °C + 45 °C

**Dimensions:** 75x20x17mm (DS) 63x26x28mm (RB) 55x26x28mm (RB)

**Weight:** 37g (DS) 22g (RB) 21g (RJ)

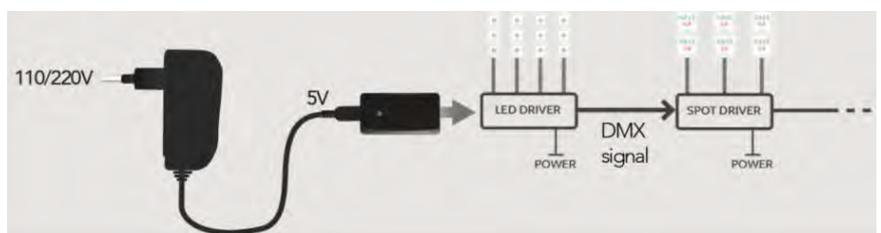
**Warranty:** 12 months, caution : opening the interface will avoid the warranty.

## DMX output / 3 types of connector

<b>SUSHI-DS :</b>	XLR female 3 pins Connector	pin1 ground	pin2 data-	pin3 data+
<b>SUSHI-RB :</b>	SCREW Connector Block	pin1 ground	pin3 data-	pin2 data+
<b>SUSHI-RJ :</b>	RJ45 8 pins Connector	pin8 ground	pin2 data-	pin1 data+

## Stand alone use / power

For stand alone use, the SUSHI can be powered by a standard 5V USB power  
This optional power supply is available for a cost of USD 15.  
(available with EU, UK or US plug)



**DMX 8-WAY SPLITTER**

**SPECIFICATION SHEET**

# DI-1804



Included items: 1x Male DC Adapter Splice Cable

Specified Item #	
Project	
Location	



**SPECIFICATIONS**

<b>Input Signal</b>	DMX512
<b>Input Voltage <sup>1</sup></b>	12-24VDC constant voltage
<b>Compatible Power Supply</b>	DC constant voltage driver (not included)
<b>Static Power Consumption</b>	< 5W
<b>DMX512 Connection Ports</b>	Input: (1x) Male XLR-3 Output: (8x) Female XLR-3

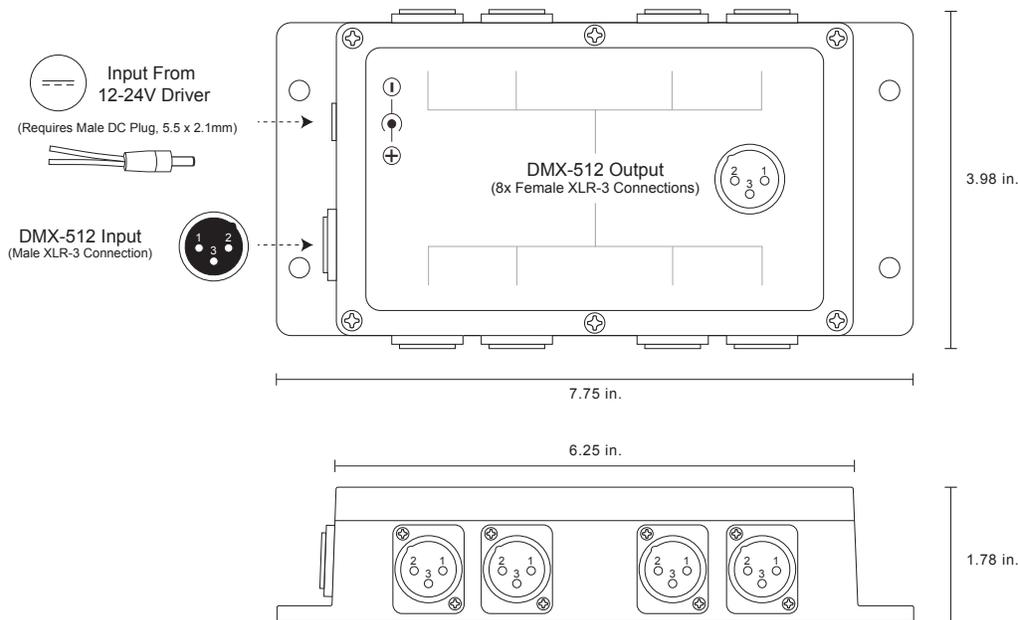
<b>Environment</b>	Suitable for indoor/dry location
<b>Ambient Temperature <sup>2</sup></b>	-4° ~ 104°F (-20° ~ 40°C)
<b>Operating Temperature <sup>3</sup></b>	-4° ~ 140°F (-20° ~ 60°C)
<b>Dimensions</b>	7.75 x 3.98 x 1.78 in. (L x W x H)
<b>Weight</b>	11.6 oz.
<b>Warranty</b>	1 year

**Note <sup>1</sup>** Ensure to specify a compatible driver and fixture with the same voltage specifications.

**Note <sup>2</sup>** Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage the controller and/or fixture.

**Note <sup>3</sup>** Operating temperature is measured according to the minimum and maximum ambient temperature environment.

**MECHANICAL DIAGRAM**



SS061614-1.1

## ADDITIONAL RESOURCES

Visit the on-line product page at [www.DiodeLED.com](http://www.DiodeLED.com) for additional resources including:

- **DMX 8-WAY SPLITTER Installation Guide**  
For system diagrams and full installation/operating instructions.
- **Voltage Drop Charts**  
Use to specify appropriate wire gauge for installation. Available at the 'Education Center' page at [www.DiodeLED.com](http://www.DiodeLED.com).

## SAFETY / WARNINGS / DISCLOSURES

- Install in accordance with the National Electric Code, and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Do not connect directly to high voltage 120V~277V power. Install with a compatible Class 2 constant voltage LED driver (power supply).
- Only install compatible LED drivers and fixtures. Contact technical support or visit the product page for compatible products.
- This product is rated for indoor installation and is not protected against moisture.
- Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum operating temperature may damage the controller or fixture.
- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overhead wires, and cause a fire.
- Ensure wire leads at opposing ends of the tape light are not crossed when the fixture is turned on.
- Do not modify or disassemble this product beyond instructions or the warranty will be void.

## WARRANTY

### Limited Warranty

This DMX device has a one (1) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.DiodeLED.com](http://www.DiodeLED.com) under the 'Tools & Resources' tab. For warranty related questions, please contact customer service.

### Consumer's Acknowledgment

Diode LED stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and in-field adjustments can have a significant impact on an entire system. Choosing the right components is essential. Diode LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Diode LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Diode LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgement that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.

# EWZ SERIES

## SunSet 1 OR 2 CHANNEL 7 DAY TIME SWITCH



CALIFORNIA Title 24

ASHRAE 90.1

**PREFERRED  
FOR  
OUTDOOR  
LIGHTING!**

### APPLICATIONS



- Outdoor signs
- Lighting security
- Heating and air conditioning

### FEATURES

**SCHEDULING:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.

**DAYLIGHT SAVING:** Automatic (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically held contactors: Model EWZ201 only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917.

CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	OUTPUT DRY CONTACTS
EWZ101	82470	120-277	1	SPST
EWZ103	82473	120-277	1	DPST
EWZ120	82471	120-277	1	SPDT
EWZ201	82472	120-277	2	SPST
EWZ101-MB	82263	120-277	1	SPST
EWZ103-MB	82269	120-277	1	DPST
EWZ120-MB	82275	120-277	1	SPDT
EWZ201-MB	82281	120-277	2	SPST

TYPE	EWZ101, EWZ103, EWZ201		EWZ120		
	VOLTAGE (VAC)	RATING NO	VOLTAGE (VAC)	RATING NO	RATING NC
General Purpose	120-277	40A	120-277	30A	30A
Inductive	120-277	40A	120-277	30A	30A
Ballast	120	30A	120	30A	10A
	208-277	20A	208-277	20A	10A
Tungsten	120	15A	120	15A	2A
Pilot Duty	120-277	720VA	120-277	720VA	720VA
	120	1HP	120	1HP	1HP
	208-277	1 1/2HP	208-277	1 1/2HP	1 1/2HP
Motor	240-277	2HP	240-277	2HP	2HP
	28VDC	30A	28VDC	30A	30A

# SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**

120 - 277VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**

-40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA Max.

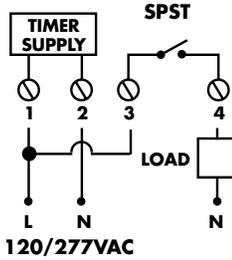
**ENCLOSURE:** Polycarbonate Indoor/Outdoor  
NEMA 3R is standard with lockable hasp (see pages 589-593 for enclosure dimensions).

Suffix -MB without enclosure and includes mounting bracket.

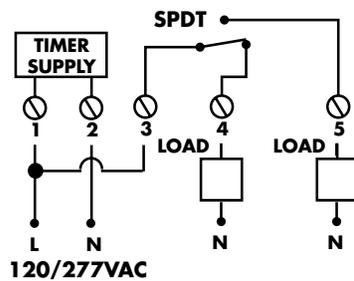
**OPTIONS:** Suffix -Q Quartz crystal timing.

Maintains accurate timing where 50 or 60 Hz is not consistent such as on-site generator produced power. Consult factory for minimum order size.

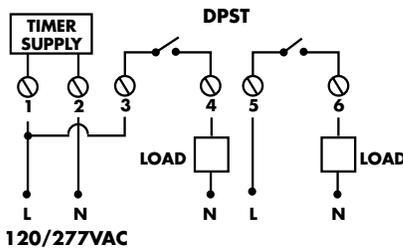
**EWZ101**



**EWZ120**



**EWZ103**



**EWZ201**

