

NORTH BEACH BANDSHELL CANOPY - VIEW OF STAGE FROM REAR OF AUDIENCE

I. CODES AND STANDARDS

FLORIDA BUILDING CODE - 6TH EDITION, 2017
AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC360-05
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-10)
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
AMERICAN WELDING SOCIETY (AWS), "STRUCTURAL WELDING CODE", D1.1
ALUMINUM ASSOCIATION
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

II. MATERIALS

FABRIC: A. SIOEN STYLE T2102E

STEEL: A. STRUCTURAL ROUND PIPE (CHS)
SHALL MEET THE FOLLOWING SPECIFICATIONS OR EQUAL:
ASTM A500 GRADE C, 46 KSI MINIMUM YIELD STRENGTH
ASTM A53, GRADE B, 46 KSI MINIMUM YIELD STRENGTH
B. STRUCTURAL STEEL TUBE (RHS) TO BE ASTM A500 GR. B - 46 KSI MINIMUM YIELD STRENGTH
C. STRUCTURAL STEEL PLATE TO BE ASTM A572 GR. 50 - 50 KSI MINIMUM YIELD STRENGTH
WELD BACKER BARS TO BE ASTM A36
D. PINS TO BE AISI 1045 COLD DRAWN - 45 KSI MINIMUM YIELD STRENGTH
3" DIAMETER AND GREATER PINS SHALL HAVE 1/4" CHAMFERED EDGES UNLESS NOTED OTHERWISE
E. ALL WELDED STEEL IS TO BE COMPATIBLE WITH ASTM E70XX WELDING ELECTRODES
F. ALL A307 AND A325 BOLTS TO BE GALVANIZED

CABLES:

A. ALL CABLES TO BE CLASS A GALVANIZED ASTM A603 WIRE ROPE
B. ALL CABLES TO BE PRESTRECHED TO 55% OF MAXIMUM BREAKING LOAD.
C. ALL CABLE END FITTINGS TO BE CLASS A GALVANIZED

STEEL FINISH:

A. ALL STRUCTURAL STEEL TO BE FINISHED PAINTED WITH A 2 PART PAINT SYSTEM.

HARDWARE:

A. ALL HARDWARE AND FASTENERS TO BE GALVANIZED.

GENERAL NOTES

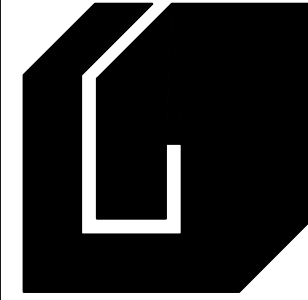
- CANOPY AND STEELWOWRK TO BE SUPPLIED BY PVILION.
- DIMENSIONAL TOLERANCES OF FOUNDATION ANCHOR PLATE LAYOUT TO BE:
LOCATION IN X,Y (HORIZONTAL) PLANE: 1/4"
LOCATION IN Z (VERTICAL) PLANE: 1/4"
- GENERAL CONTRACTOR TO VERIFY ACCURACY OF CONCRETE FOOTINGS PRIOR TO INSTALLATION TO ENSURE PROPER FIELD FIT-UP.

STRUCTURAL NOTES

- THIS DRAWING DEFINES THE STRUCTURAL DESIGN OF THE MEMBRANE STRUCTURE AND SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS.
- ALL SETTING OUT DIMENSIONS OF FOUNDATIONS SHALL BE CONFIRMED BY THE GENERAL CONTRACTOR'S AS-BUILT SURVEY BEFORE COMMENCEMENT OF INSTALLATION WORK.
- UNLESS OTHERWISE NOTED, STEEL BOLTS SHALL BE ASTM A325 TYPE 1, NUTS - A536DH HEAVY HEX AND WASHERS - F436, AND INSTALLED "SNUG-TIGHT" IN ACCORDANCE WITH AISC "ALLOWABLE STRESS DESIGN" SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS WHERE "SLIP-CRITICAL" BOLTS ARE INDICATED THEY SHALL BE FULLY TENSIONED AND ARE SUBJECT TO SPECIAL INSPECTIONS.
- WELDING SHALL COMPLY WITH AWS D1.1. WELDING SHALL BE PERFORMED ONLY BY LICENSED AND CERTIFIED WELDERS. WELDING ELECTRODES SHALL BE CLASS E70XX UNLESS NOTED OTHERWISE. OPENINGS SHALL NOT BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.
- RESPONSIBILITY AND COST FOR TESTING OF MATERIALS BEYOND THOSE REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE BORNE BY THE OWNER OR GENERAL CONTRACTOR. THE TESTING AGENCY SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.
- MECHANICALLY GUIDED DRILLING, PLASMA, LASER AND WATER CUTTING OF BOLT HOLES IS ACCEPTABLE. ANY OTHER METHOD MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.
- HOLE DIAMETERS FOR A325 AND A307 GALVANIZED BOLTS SHALL BE THE BOLT DIAMETER PLUS 1/8", UNLESS NOTED OTHERWISE.

STRUCTURAL DESIGN CRITERIA

- STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ANSI / AISC 360-05.
- FORCES INDICATED IN THE STRUCTURAL DRAWINGS OR A SEPARATE REPORT REPRESENT UNFACTORED FORCES THAT ARE APPLIED TO THE BUILDING OR FOUNDATION AT THAT LOCATION.



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975 Arthur Godfrey Rd. #600
Miami Beach, FL 33140
State Certified General Contractors
#CGC0053468

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

**NORTH SHORE BANDSHELL CANOPY
CITY OF MIAMI BEACH**

MIAMI BEACH, FLORIDA

7251 COLLINS AVENUE

SHEET TITLE:
COVER SHEET

SHEET #
CA-100

ASCE COMM #
13107

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☐ Ira D. Giller AR0005960

NORTH SHORE BANDSHELL CANOPY
CITY OF MIAMI BEACH
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MIAMI BEACH, FLORIDA

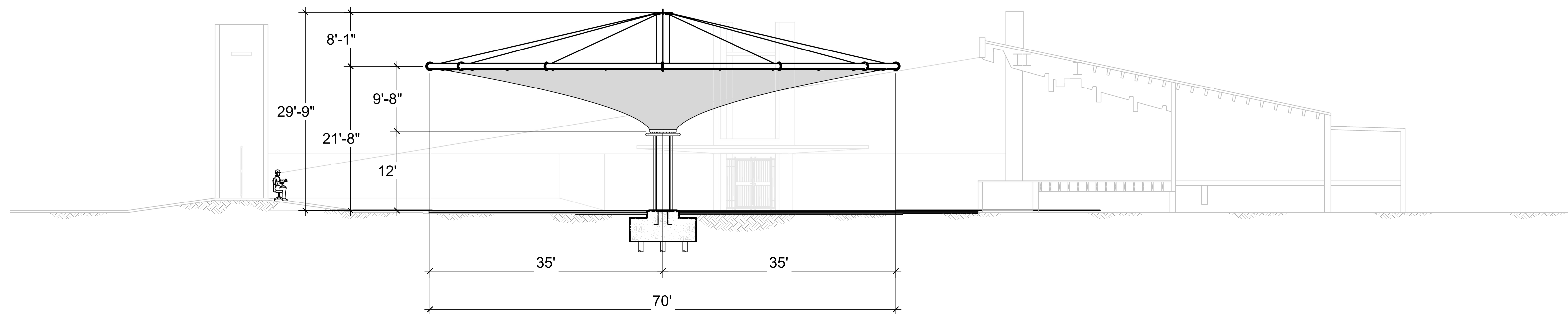
SHEET TITLE: **SITE PLAN & ELEVATION**

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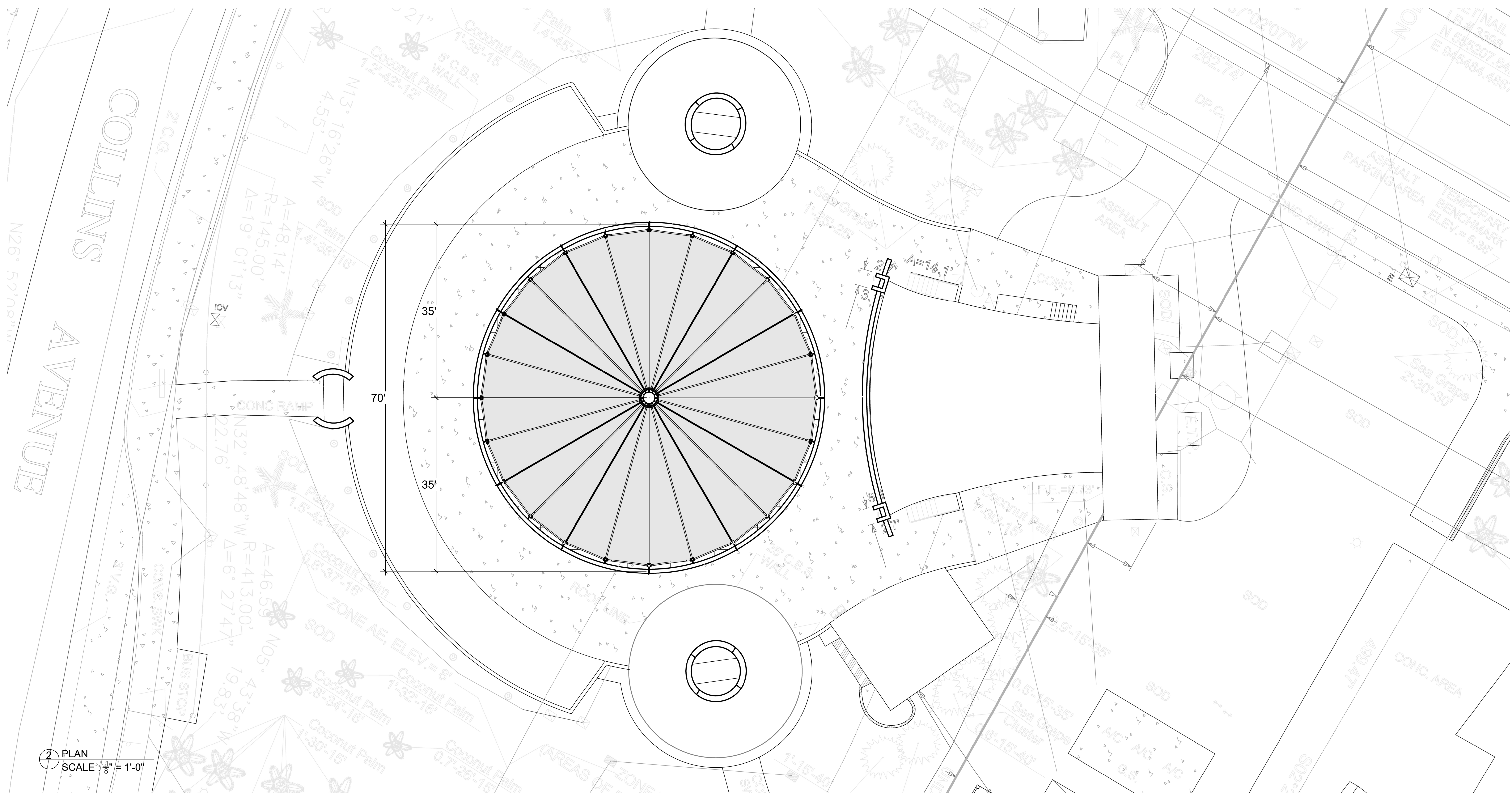
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CA-101

ARCH COMM #

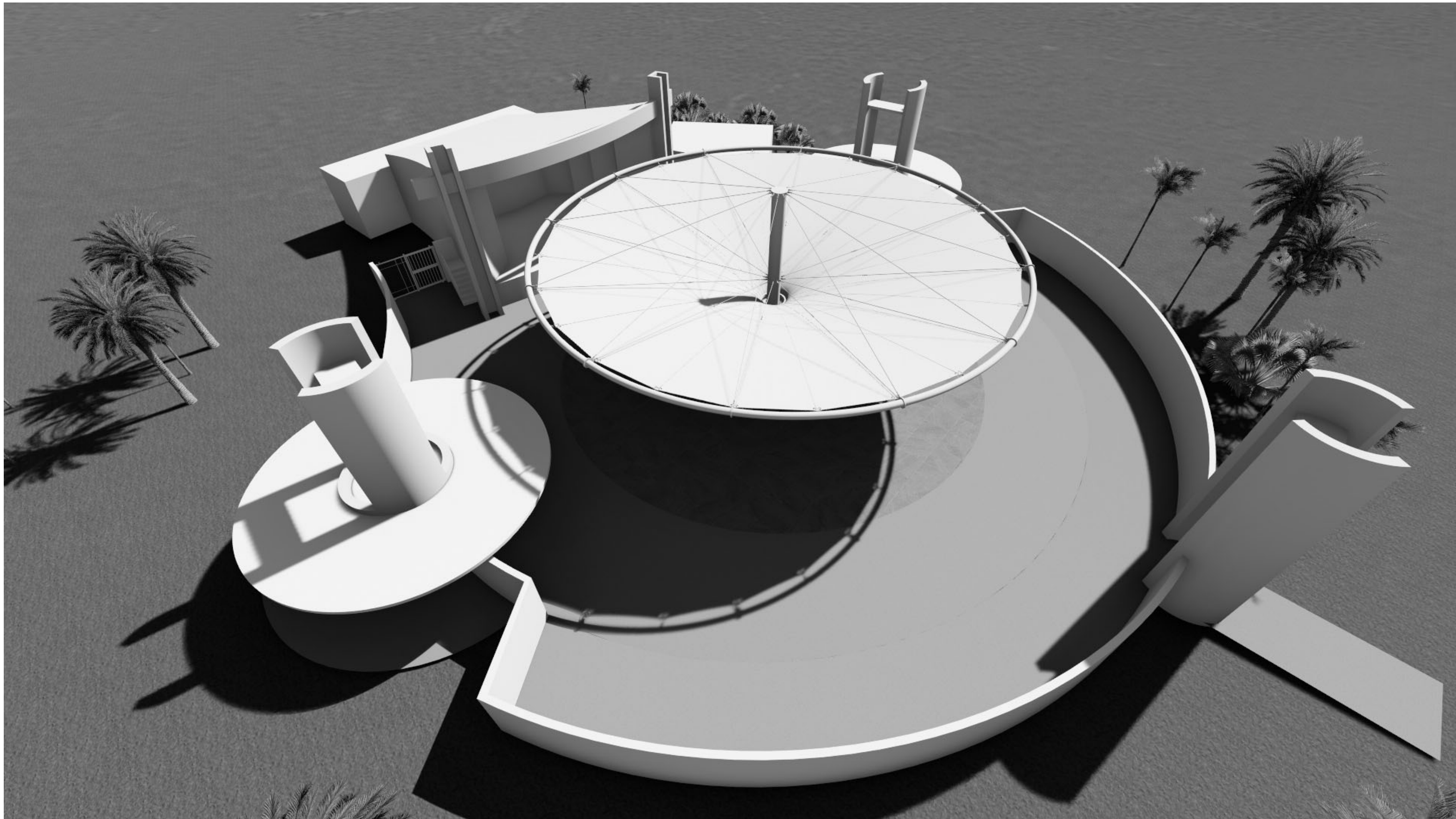


① SIDE ELEVATION
SCALE : $\frac{1}{8}" = 1'-0"$

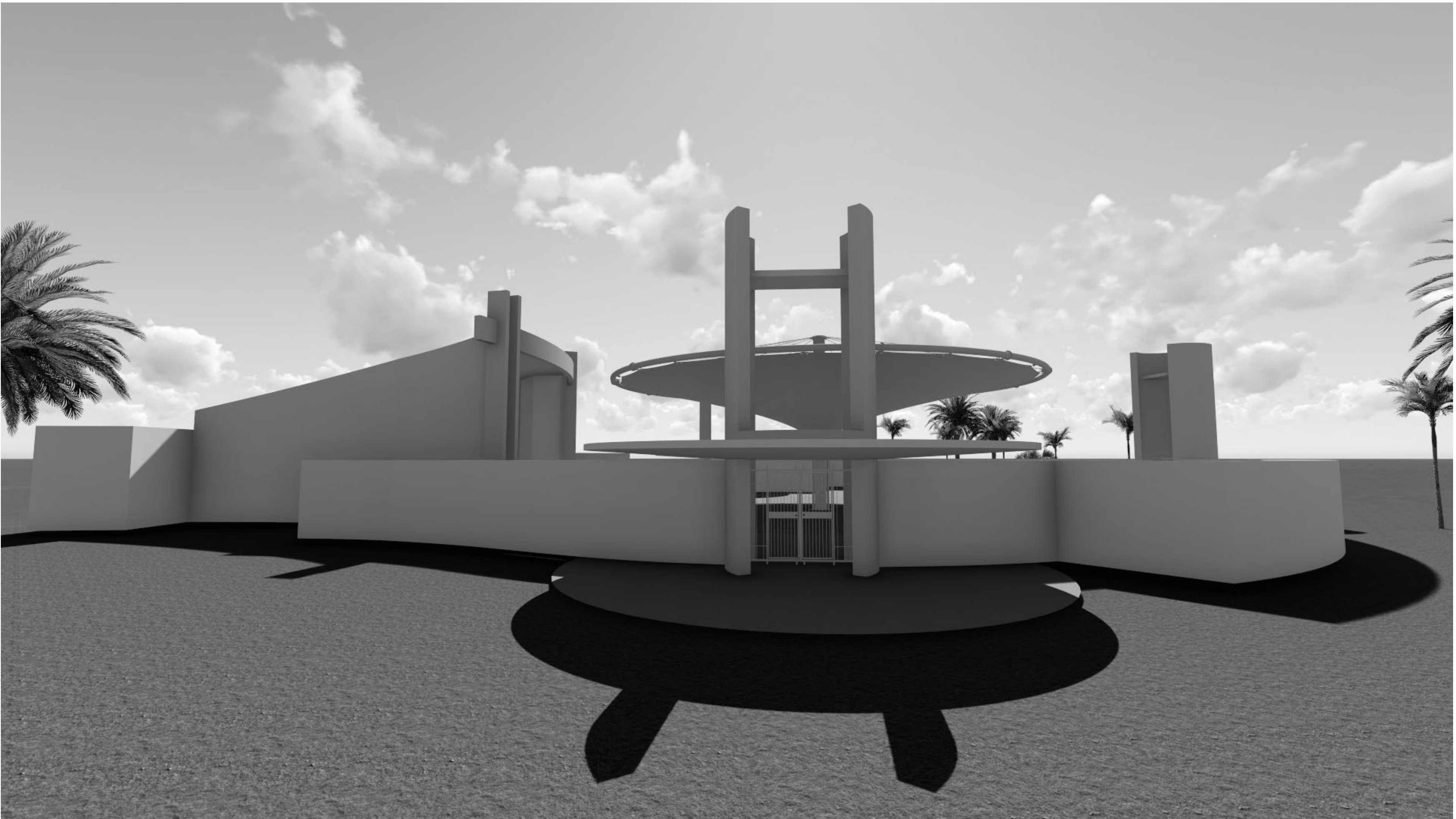


2 PLAN
SCALE: $\frac{1}{8}" = 1'-0"$

FINAL DRB SUBMITTAL



1 AERIAL VIEW FROM NW



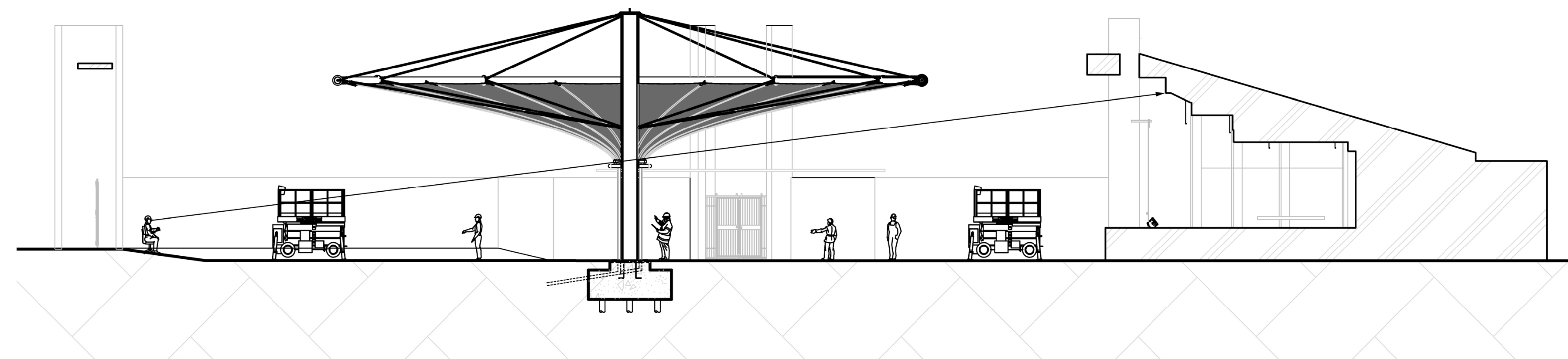
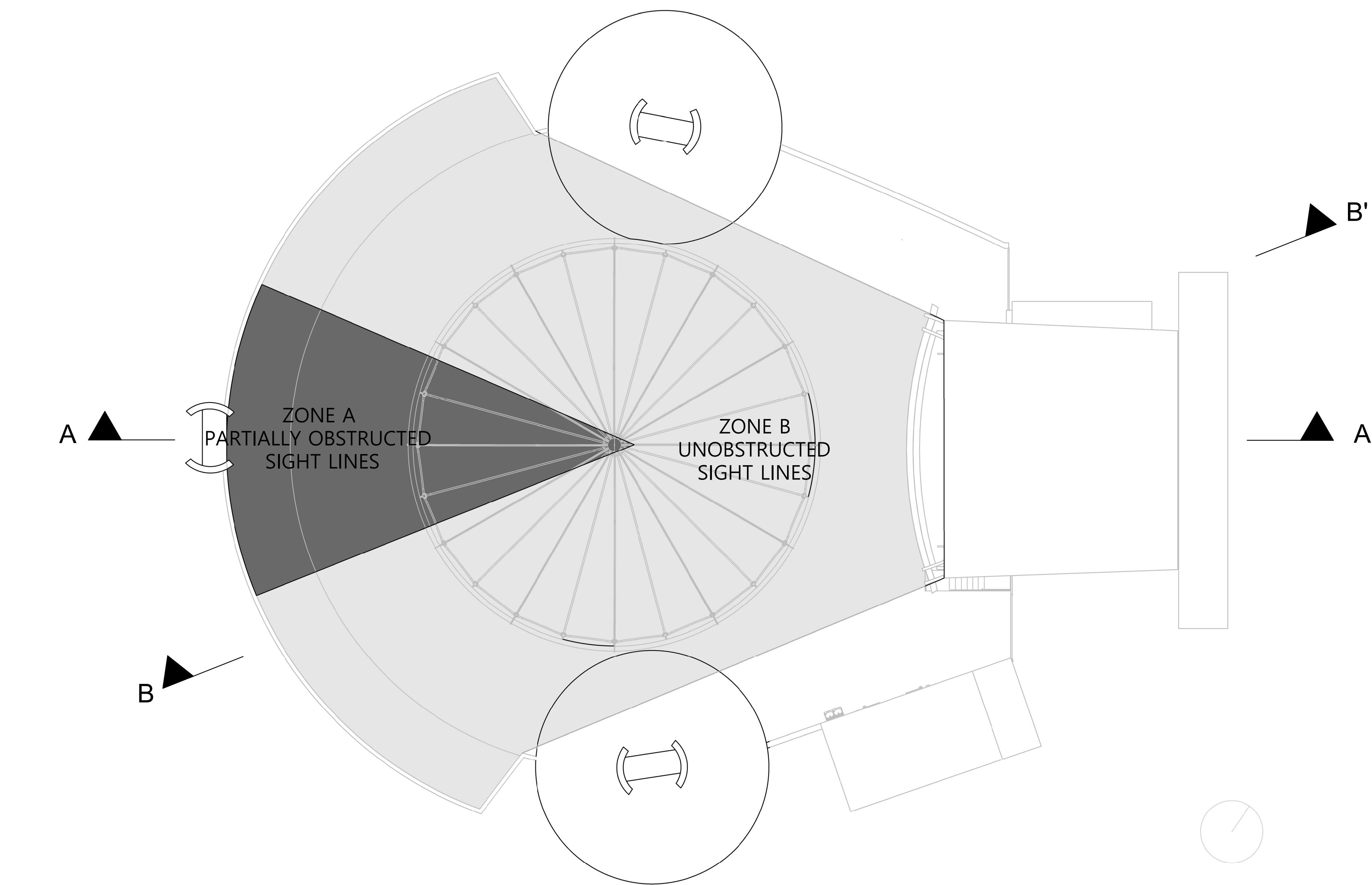
2 VIEW STANDING ON 73RD ST.



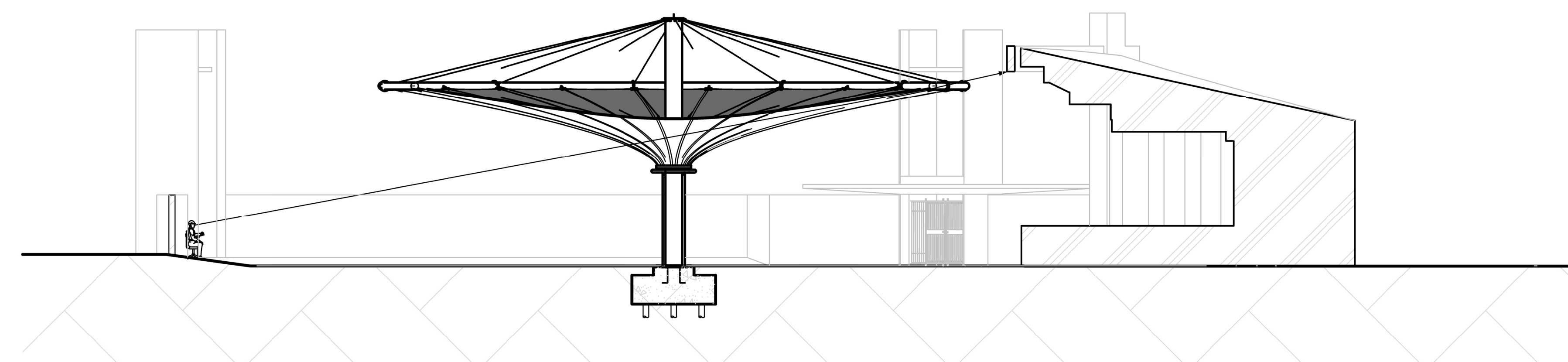
3 VIEW STANDING AT COLLINS AVENUE ENTRANCE



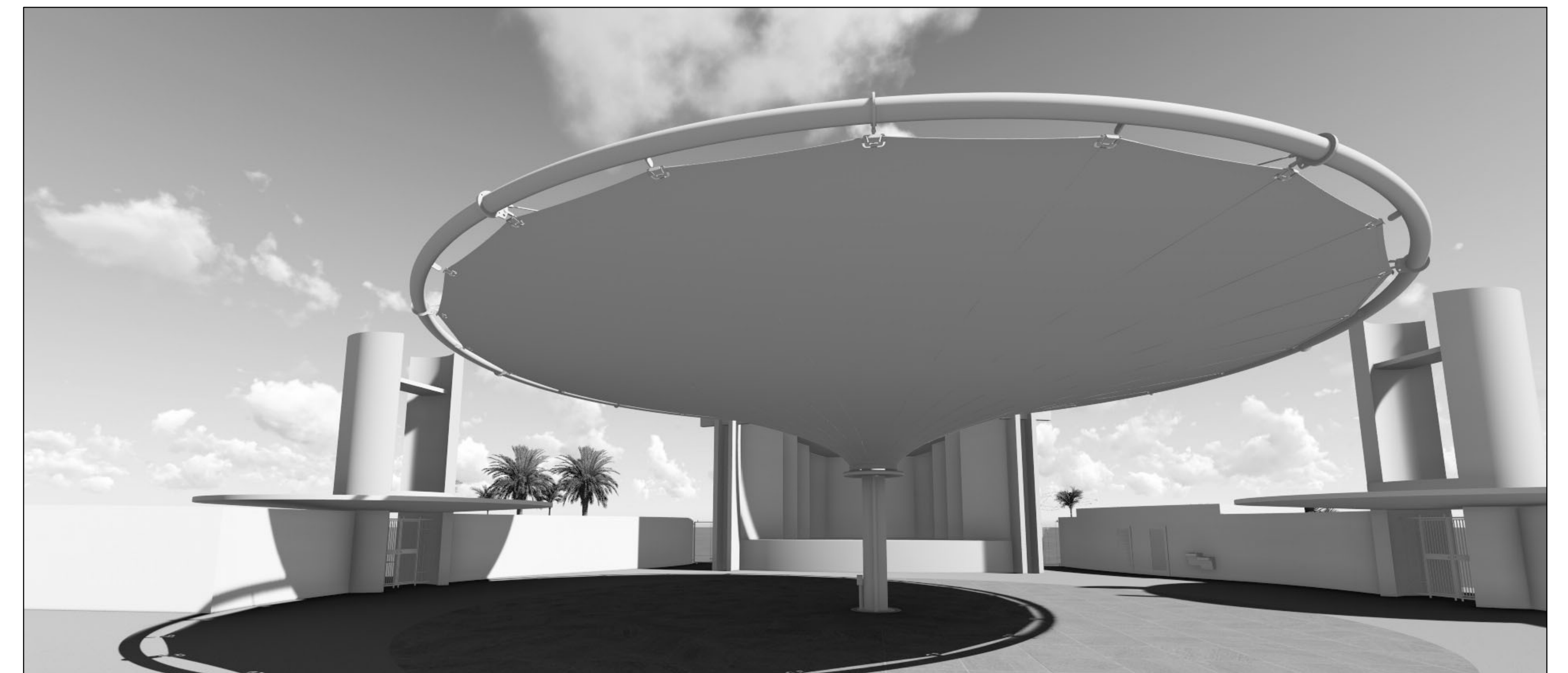
4 VIEW FROM CAR ON COLLINS AVENUE



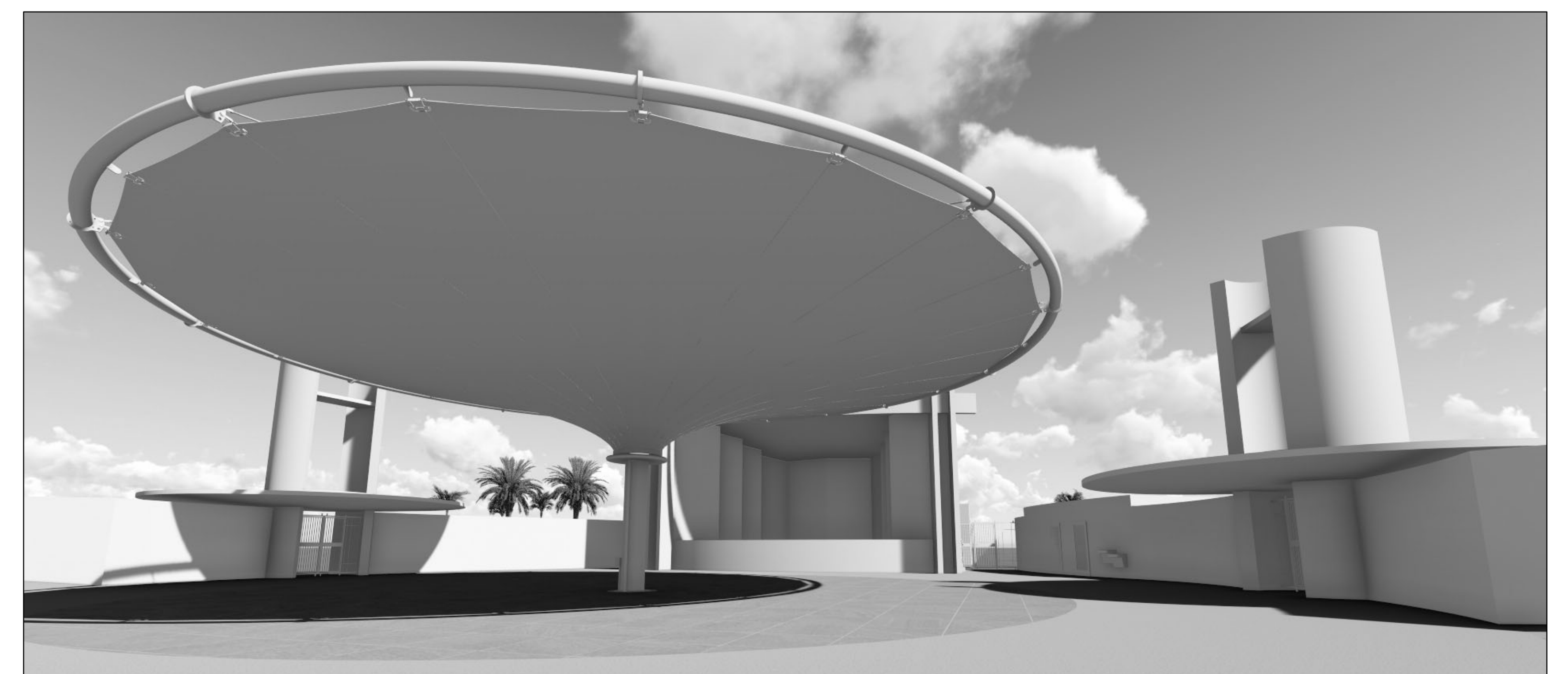
VIEW A-A' ZONE A- PARTIALLY OBSTRUCTED SITE LINES
(14% OF AUDIENCE AREA)



VIEW B-B' ZONE B - UNOBSTRUCTED SITE LINES
(86% OF AUDIENCE AREA)

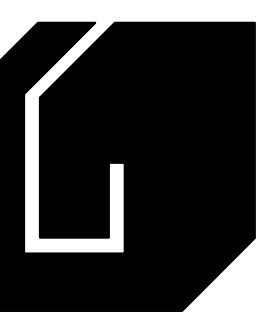


VIEW A-A' ZONE A- PARTIALLY OBSTRUCTED SITE LINES
(14% OF AUDIENCE AREA)



VIEW B-B' ZONE B - UNOBSTRUCTED SITE LINES
(86% OF AUDIENCE AREA)

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CITY OF MIAMI BEACH
MIAMI BEACH, FLORIDA

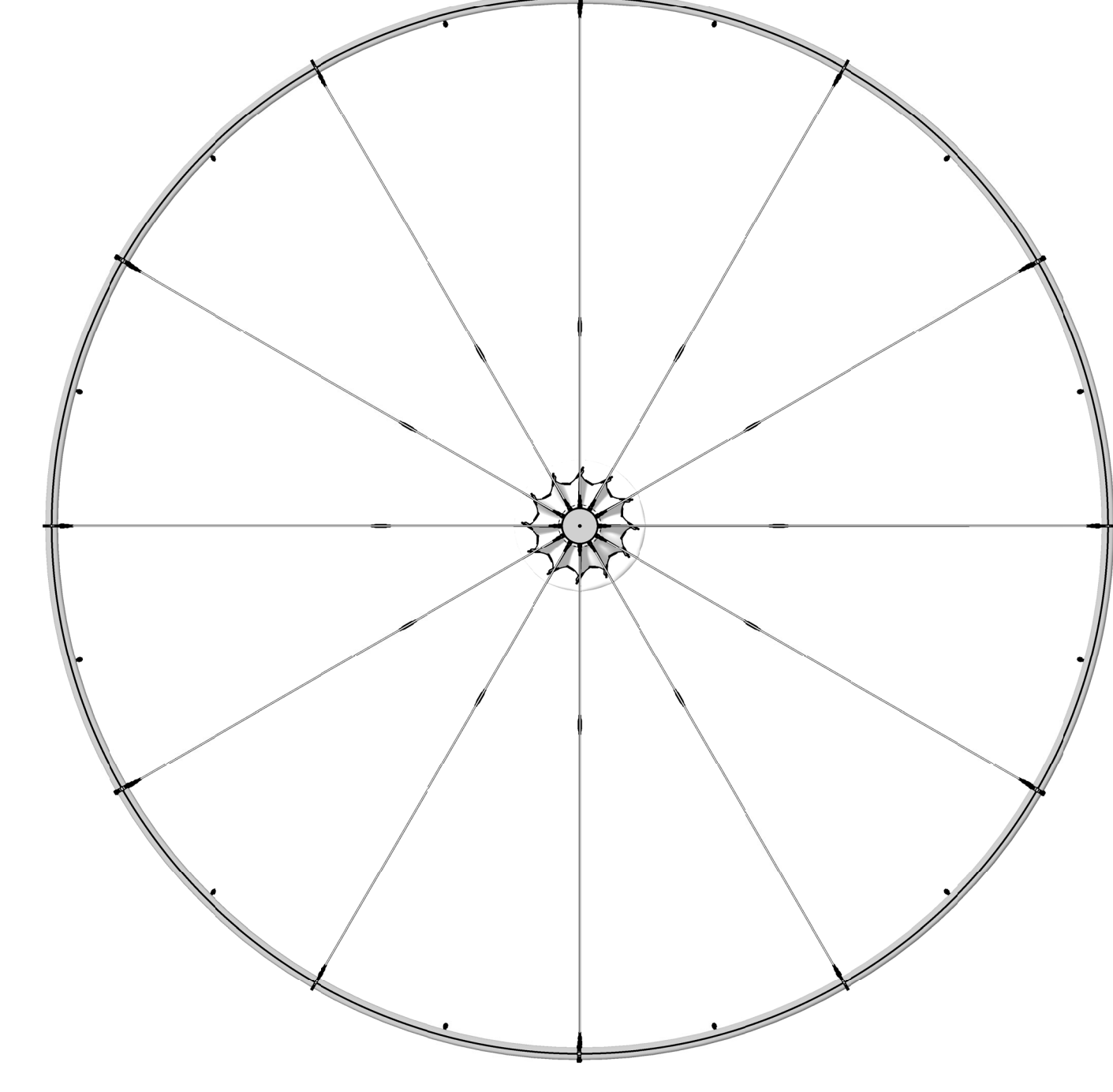
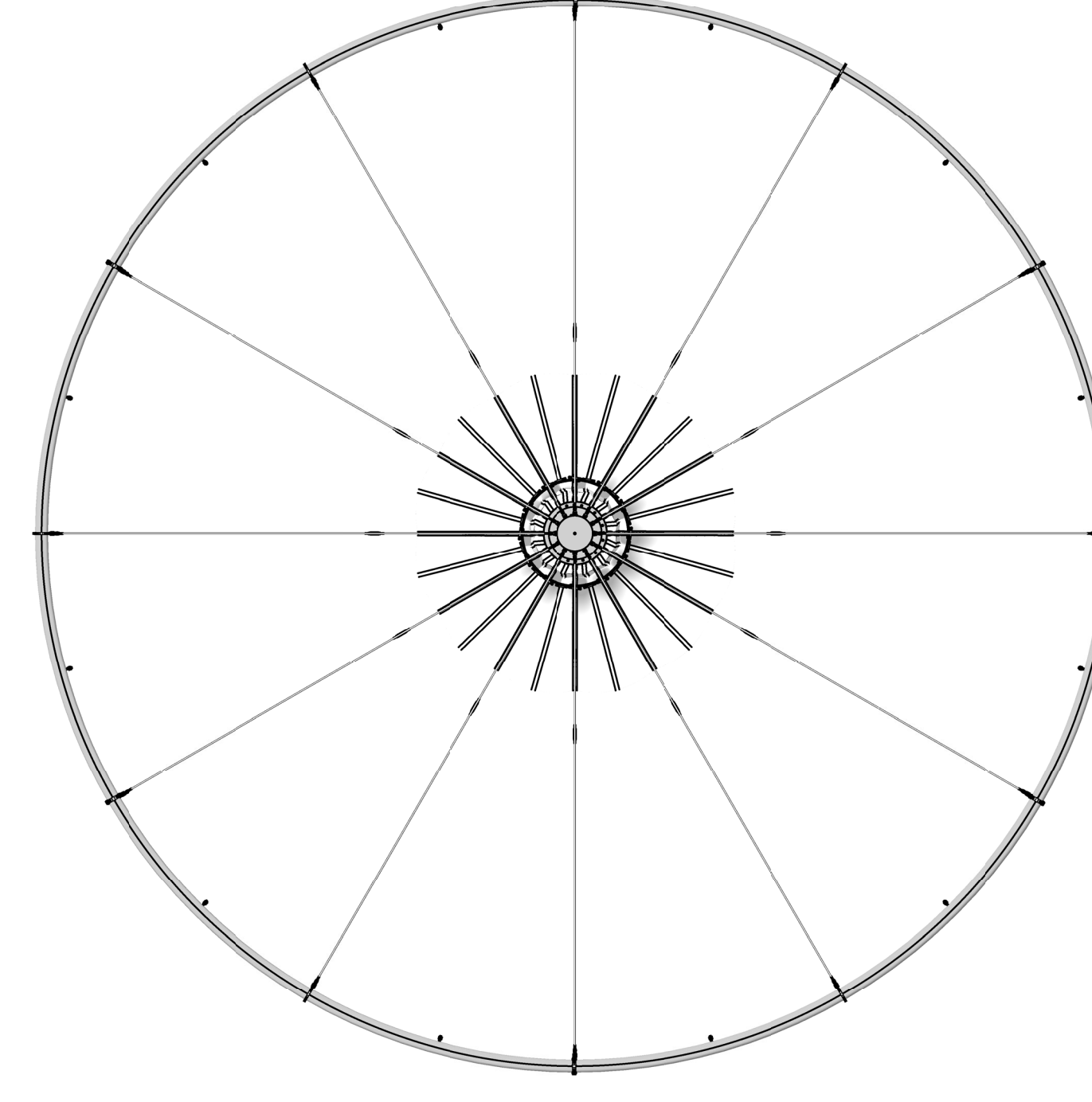
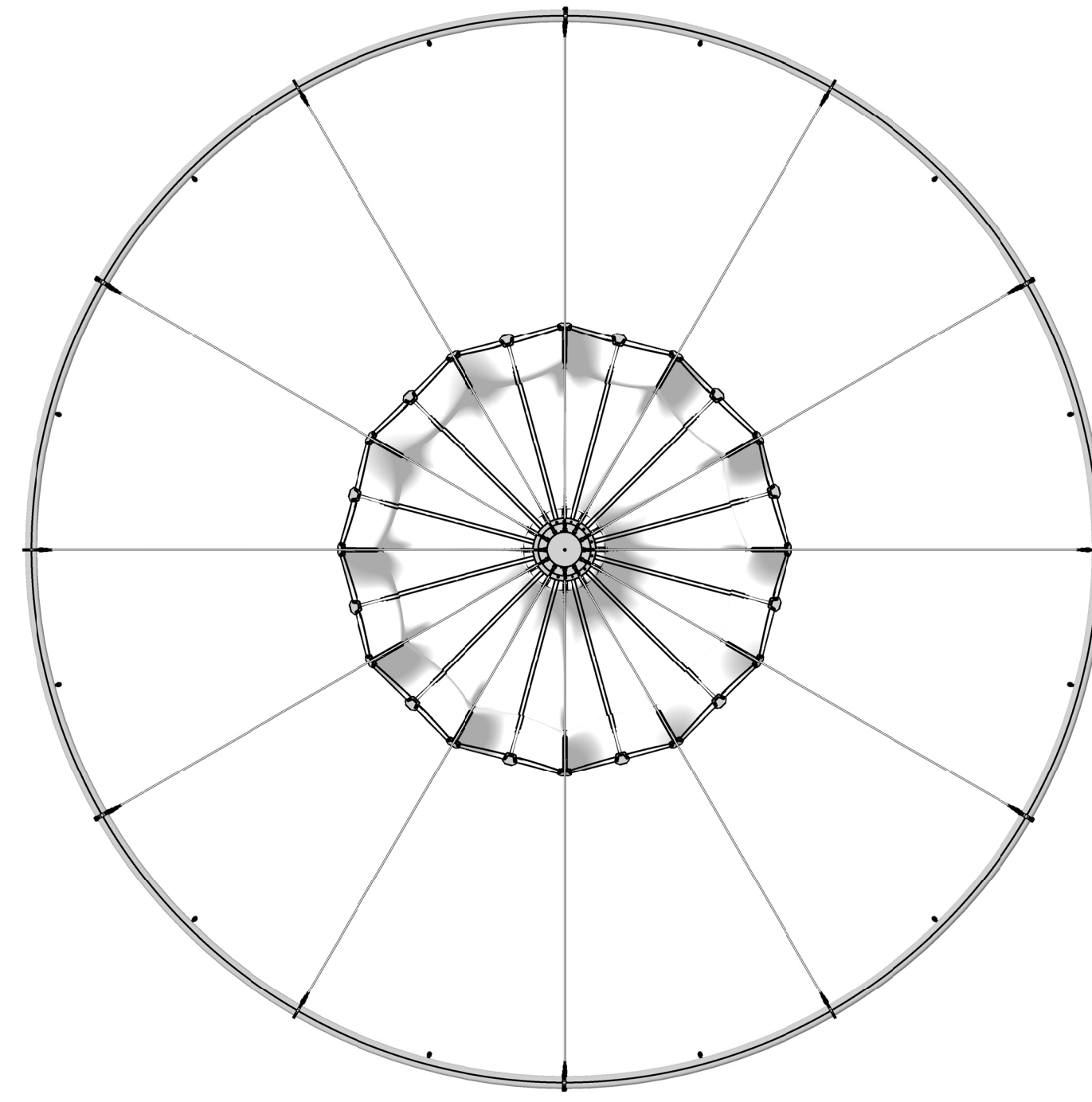
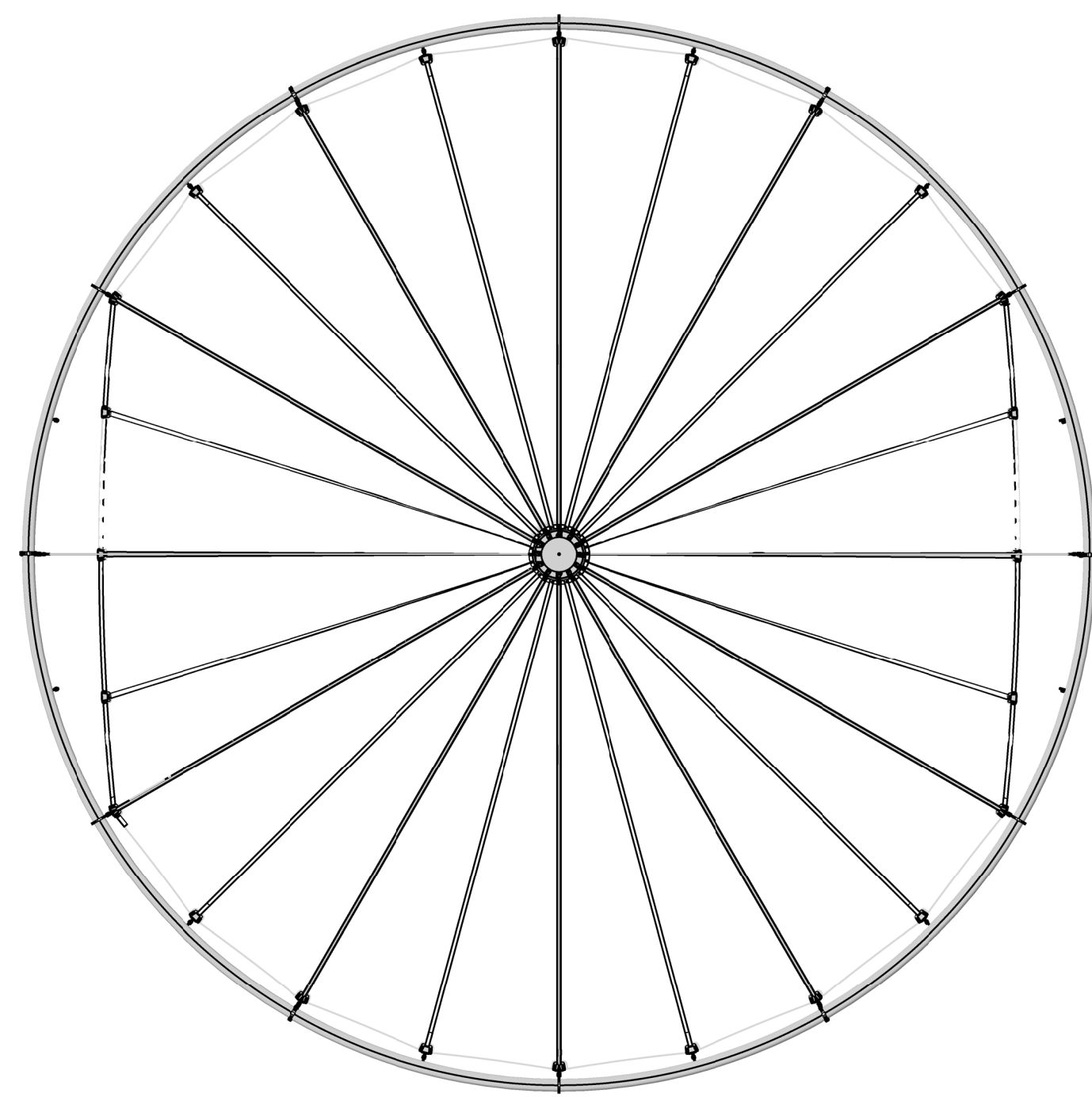
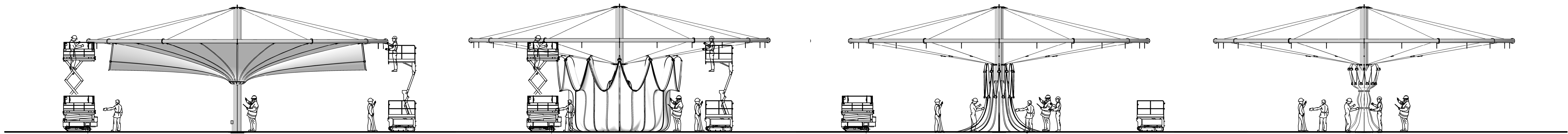
7251 COLLINS AVENUE

SHEET TITLE:
**3D VIEWS INTERIOR -
SIGHT LINES TO STAGE**

DATE:
3/11/19
DRAWN BY:
3/11/19
CHECKED BY:
3/11/19
APPROVED BY:
3/11/19

SHEET #
CA-103

APPROVED BY:
3/11/19



General Description – Canopy Fabric Retracting and Re-Tensioning Procedures

- Owner to authorize rapid Canopy Fabric retracting contractor to schedule crew and procedure when high winds are forecast.
- General budget recommendation: Contractor to provide 4 to 6 tent installation crew members, 4 scissor lifts, rigging gear, ground cloths and all tools and equipment for 8 hours of work.
- The Canopy Fabric re-tensioning equipment and time schedule requirements for procedure as for Canopy Fabric retracting procedure. The re-tensioning procedure is basically the reverse of the retracting procedure. The retracting procedure requires more time for bundling up and securing the Canopy Fabric around the center mast, and the re-tensioning procedure requires more time to fine tune the tensioning of the Fabric to the outer ring, so they are comparable.

1. Preparation: 1 HR

- Provide all labor and materials to site, and locate all materials and equipment on site in preparation for the Canopy Fabric dismantling or installation.

2. Canopy Fabric Retraction: 4 HR

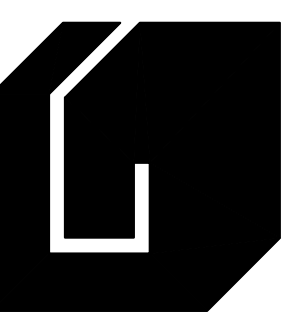
- Place a 35' diameter drop cloth on the ground to protect the Canopy Fabric from getting soiled or abraded when portions of it touch the ground.
- With a wrench, by hand, manually disconnect the threaded rod connections that connect the CanopyFabric corner plates to the perimeter ring (24 locations, all around the perimeter ring). This will allow the entire CanopyFabric to disconnect from the perimeter ring and travel down the lower ring of cables towards the center mast.
- Slide the CanopyFabric corner plates down along the lower ring of cables so the CanopyFabric retracts to the center mast.

3. Secure the Canopy Fabric to the Center Mast: 2 HR

- Bunch the top of the CanopyFabric towards the center mast.
- Use the dropcloth to help bunch the bottom of the CanopyFabric towards the center mast.
- Bunch and secure the CanopyFabric to the center mast to resist fluttering, water pooling and other damage during a storm.
- Use approximately 6 horizontal bands of webbing belt ratchet straps to tighten and secure the Fabric Canopy around the center mast at approximately 2' vertical intervals from the ground up to the top of the retracted FabricCanopy bundle.

4. Clean-Up: 1 HR

- Pack up and remove all equipment and materials from site, clean up.



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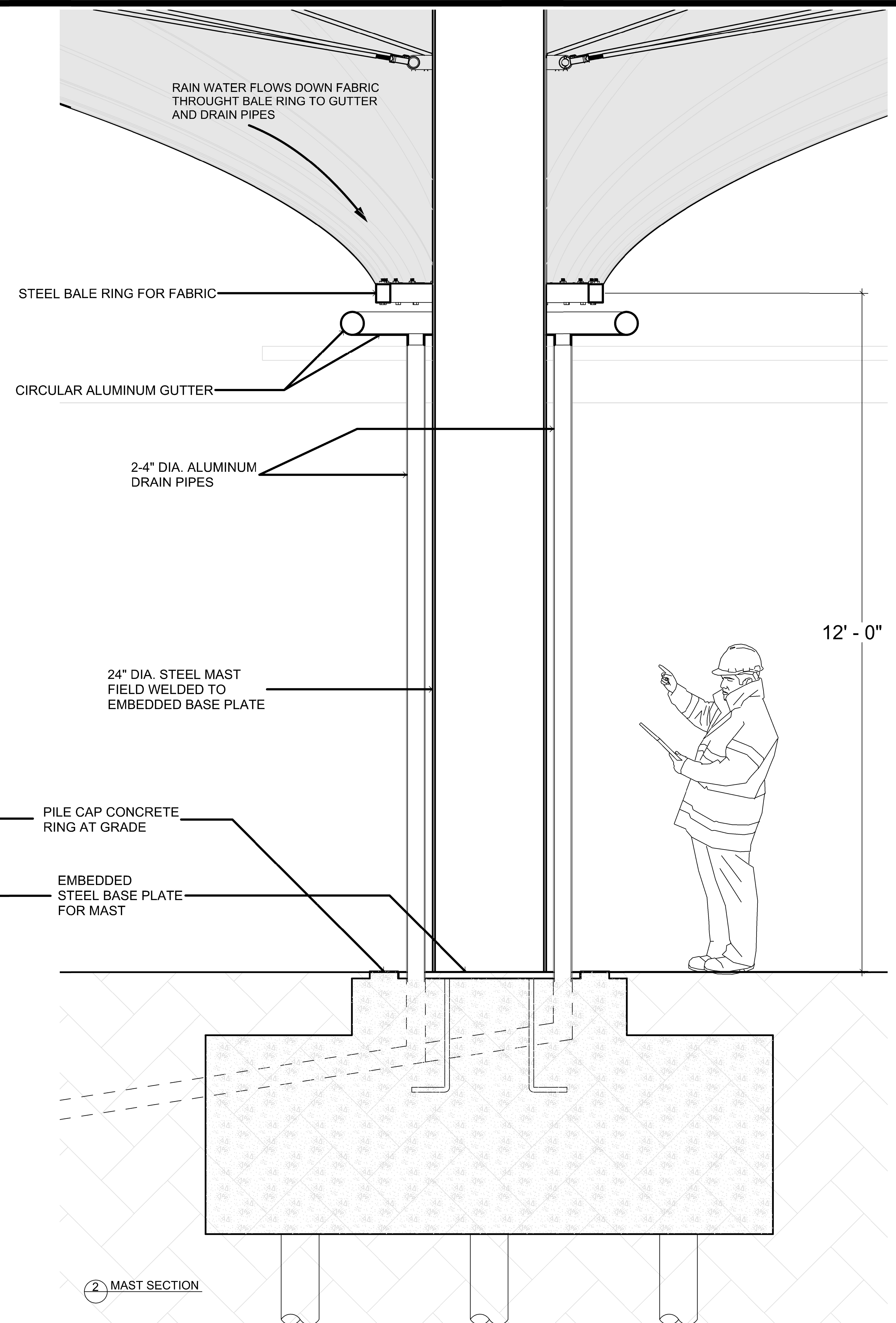
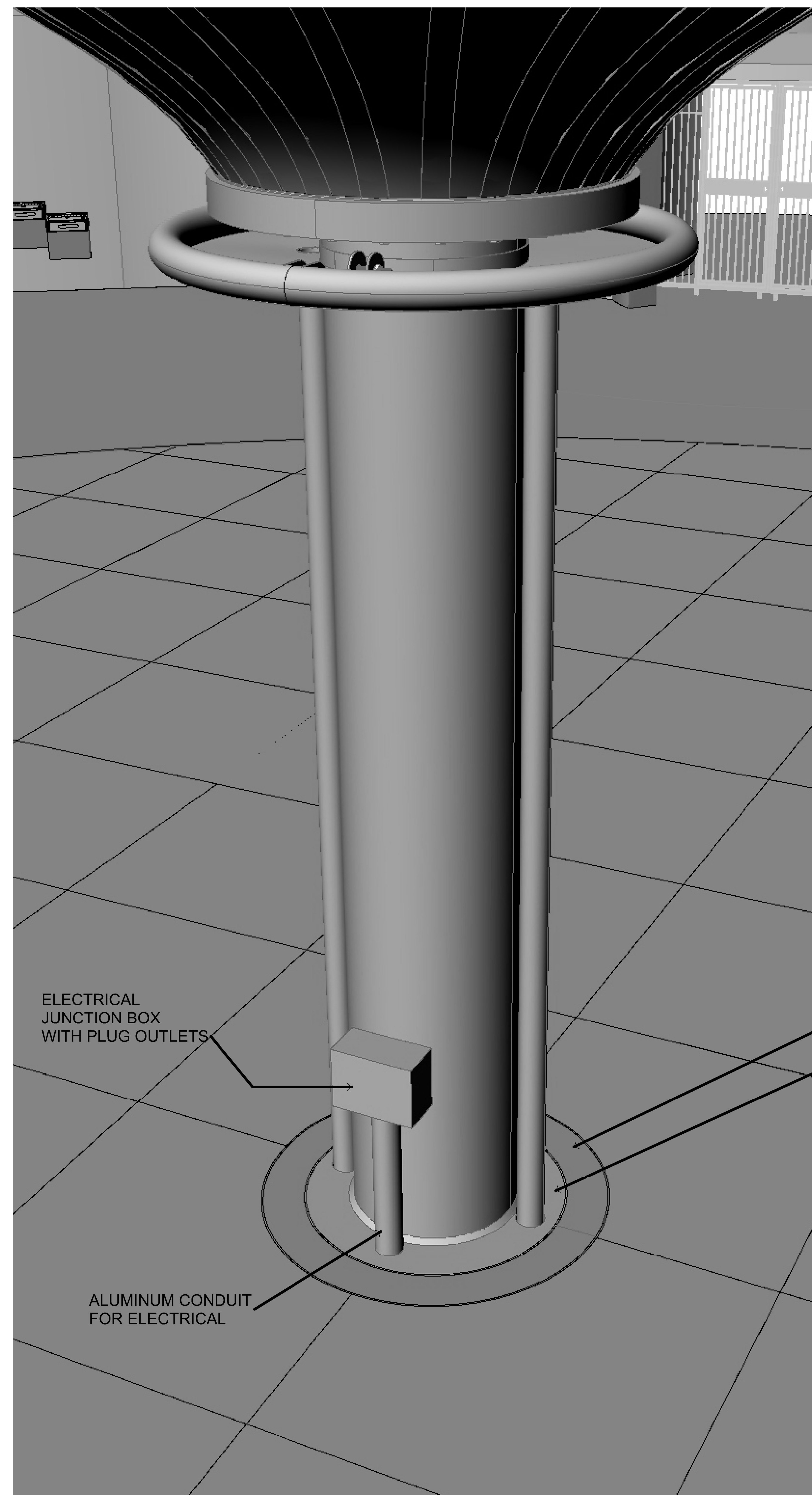
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FABRIC RETRACTION

DATE:
3/11/19

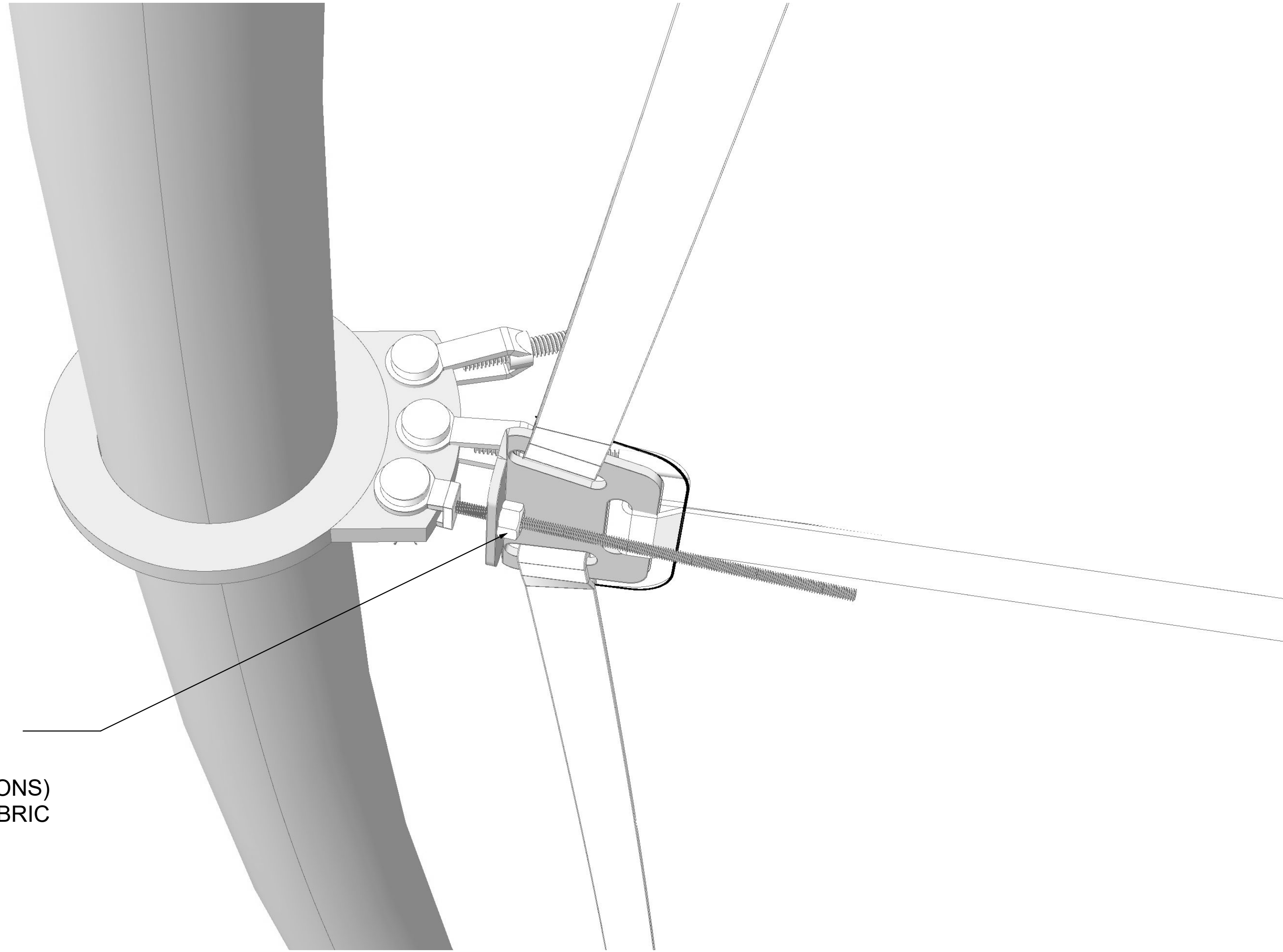
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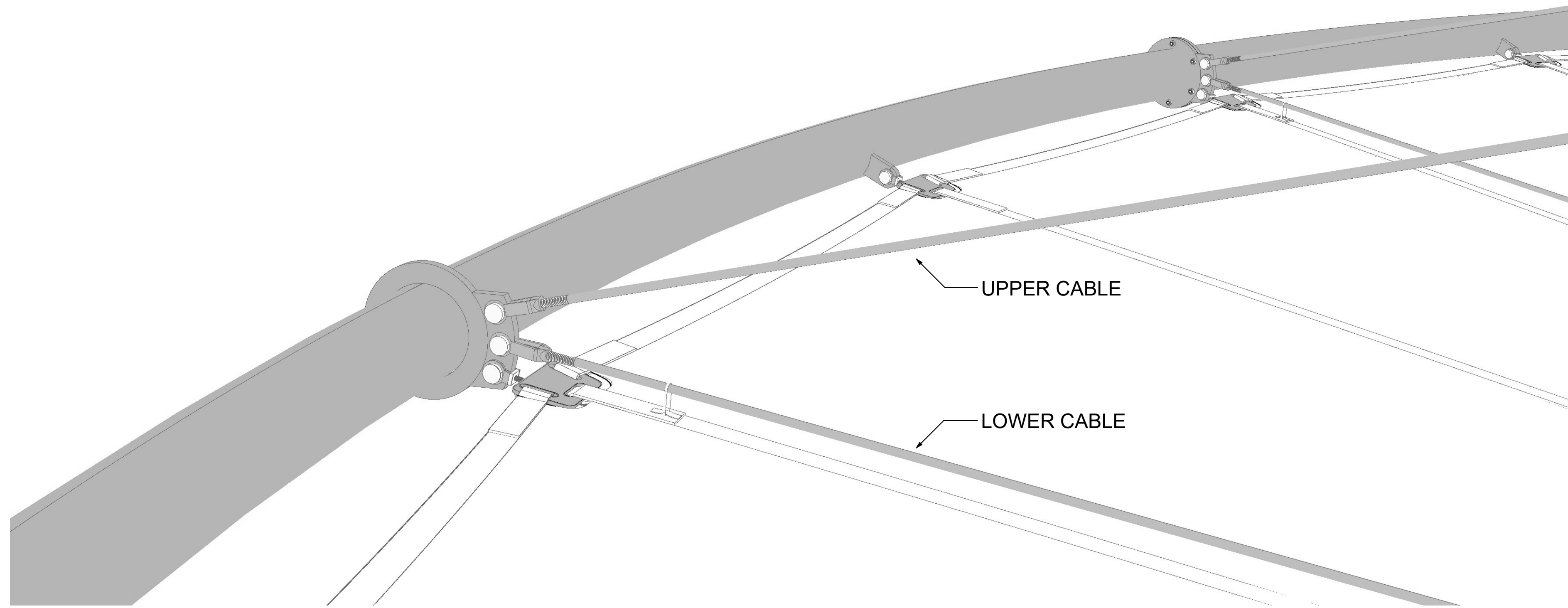
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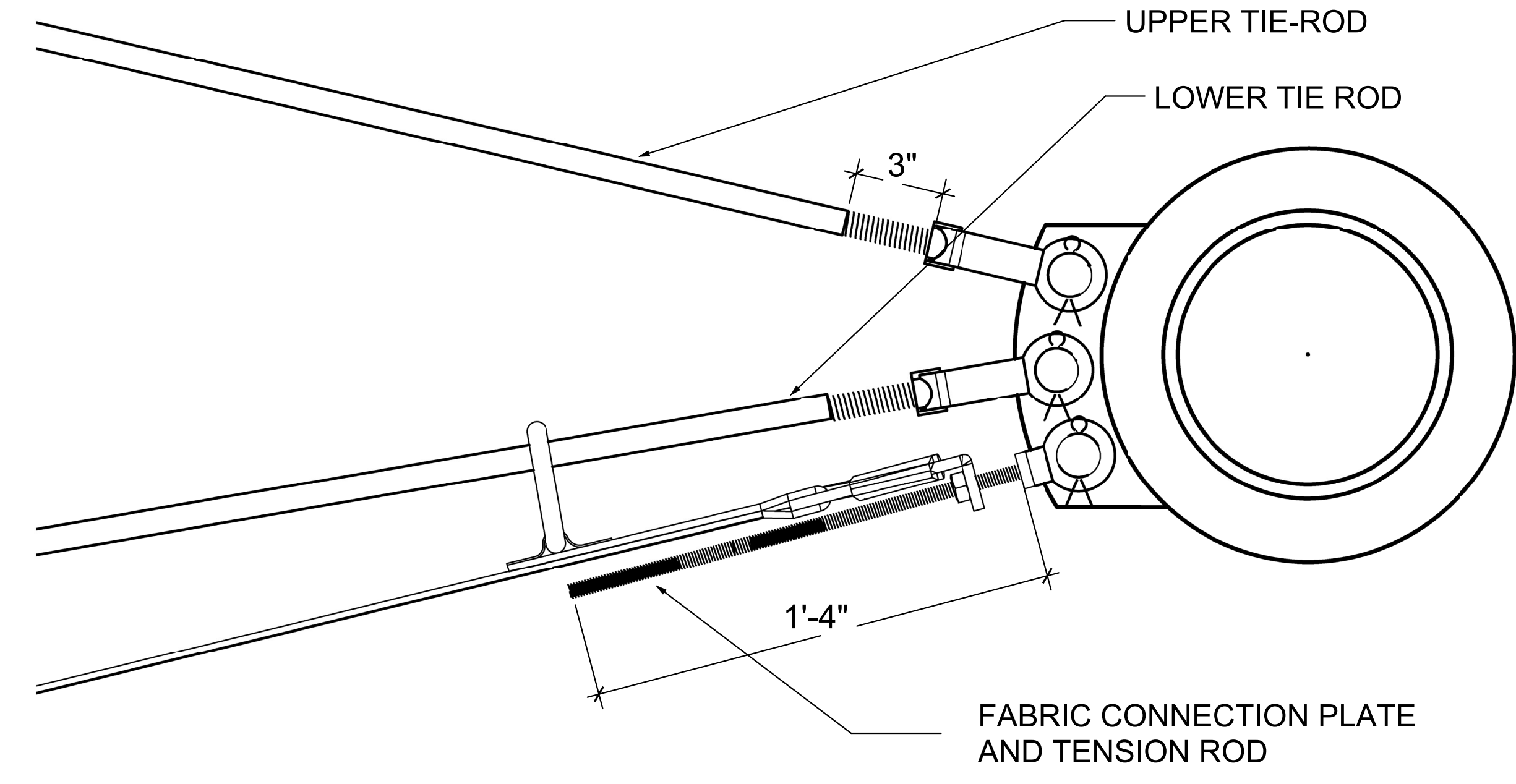
NOTE:
BACKING OFF THIS NUT
ON THIS THREADED ROD,
BY HAND WITH A WRENCH,
LOOSENS THE CANOPY FABRIC
MEMBRANE.
WHEN THE NUT IS FULLY REMOVED,
THE FABRIC MEMBRANE CAN SLIDE
DOWN THE LOWER CABLE (24 LOCATIONS)
TO RETRACT THE ENTIRE CANOPY FABRIC
TOWARDS THE CENTER MAST.



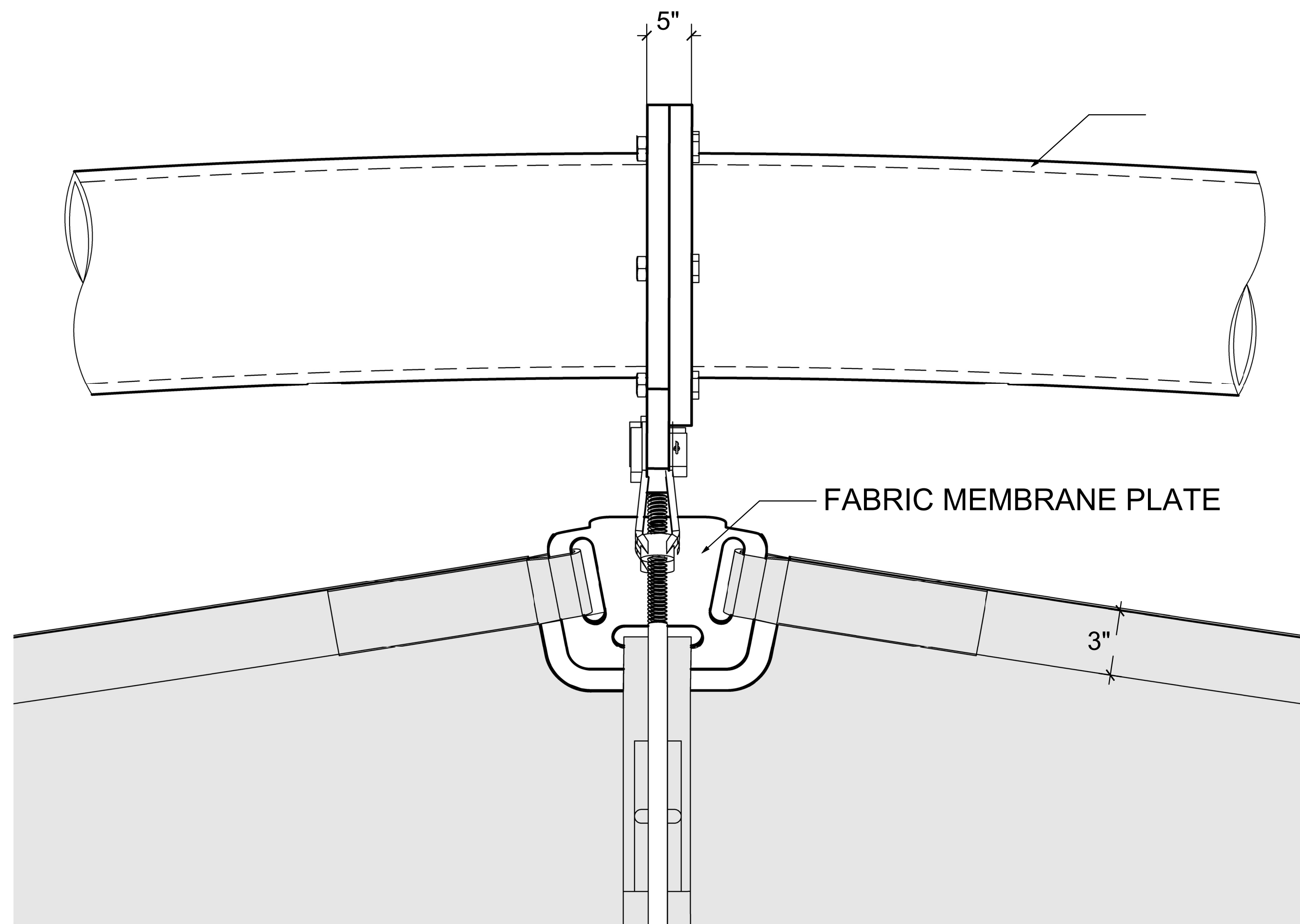
1 3D VIEW AT RING SPLICE



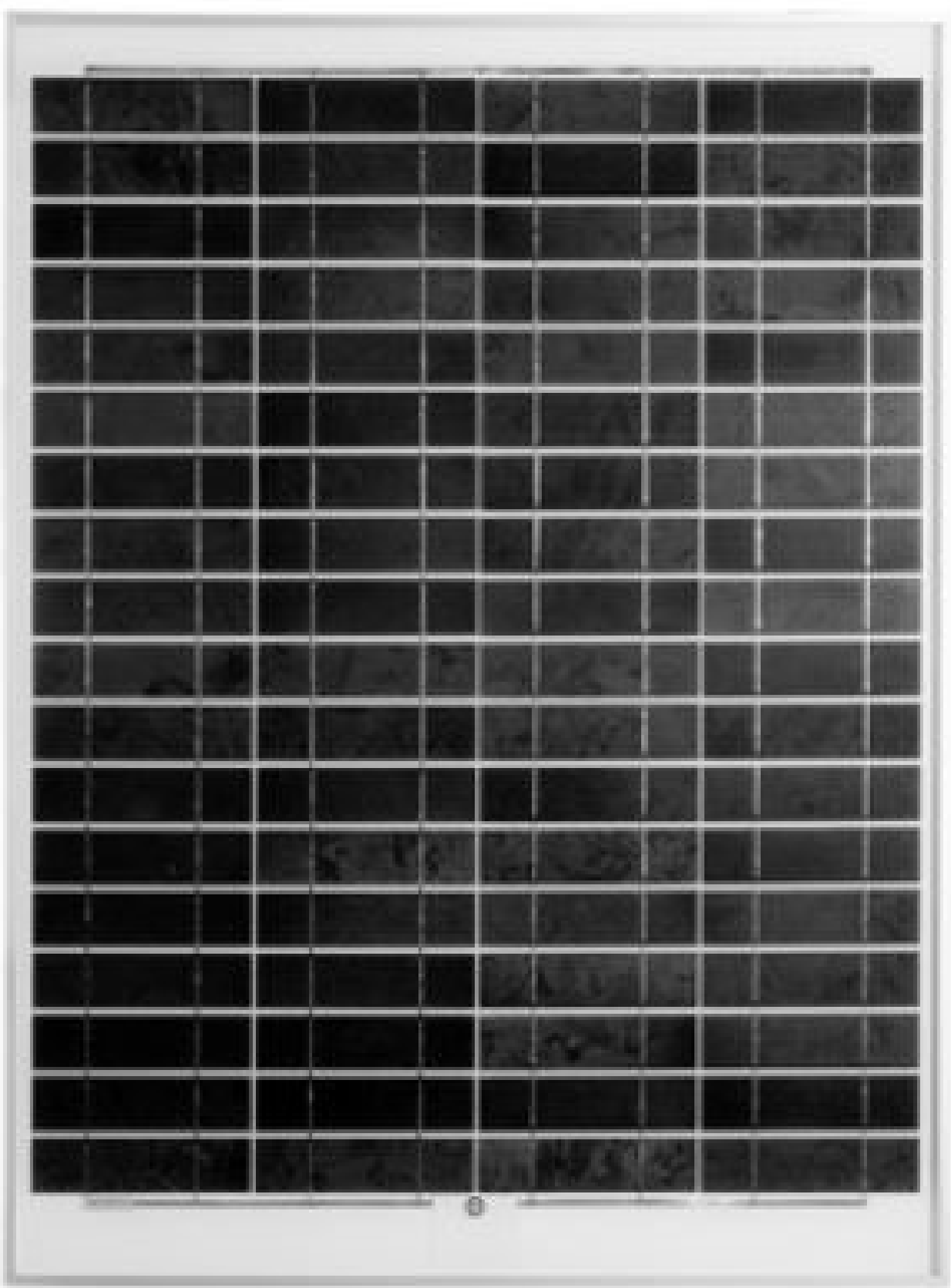
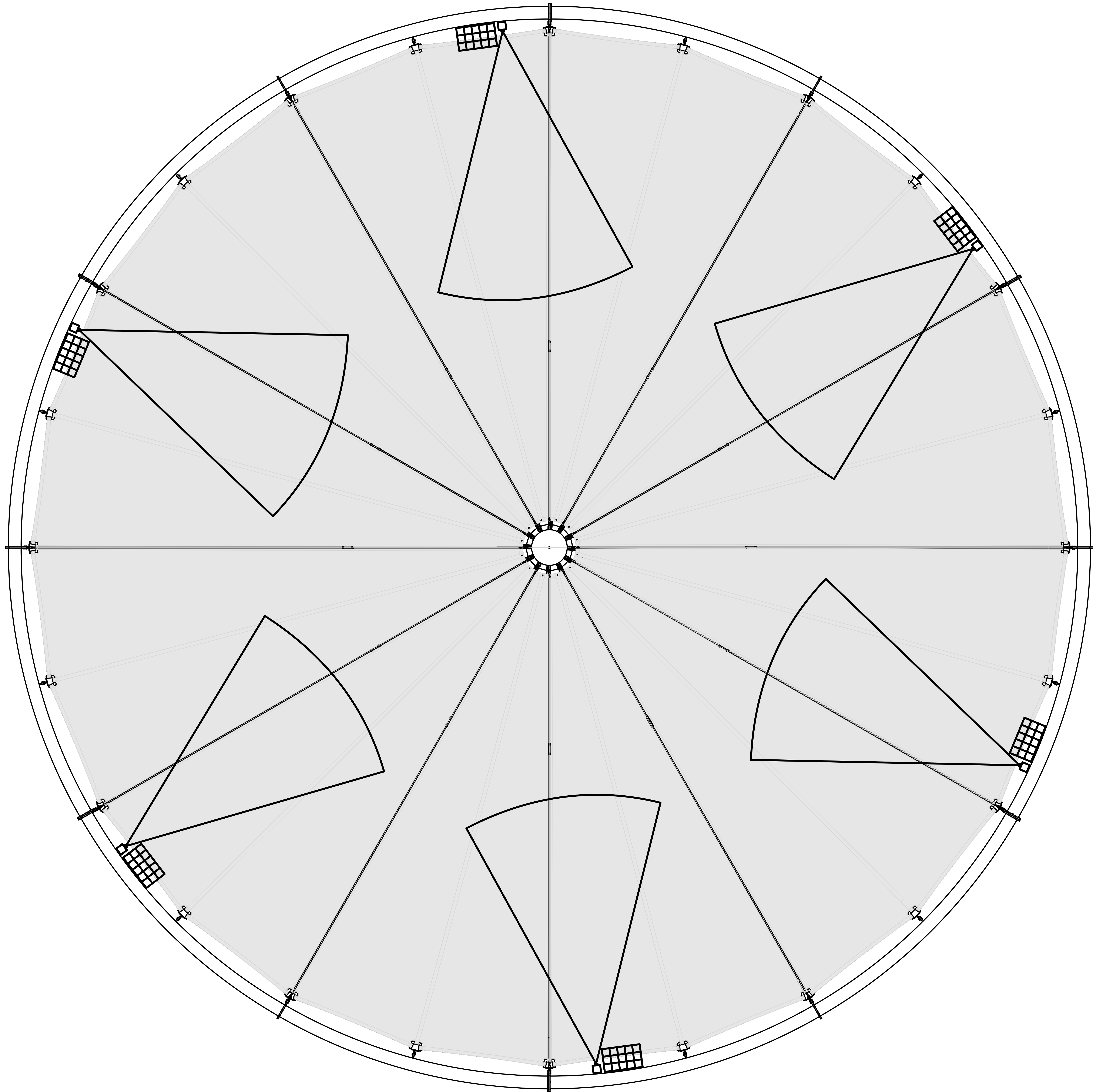
2 3D VIEW AT RING SPLICE



2 ELEVATION AT RING SPLICE



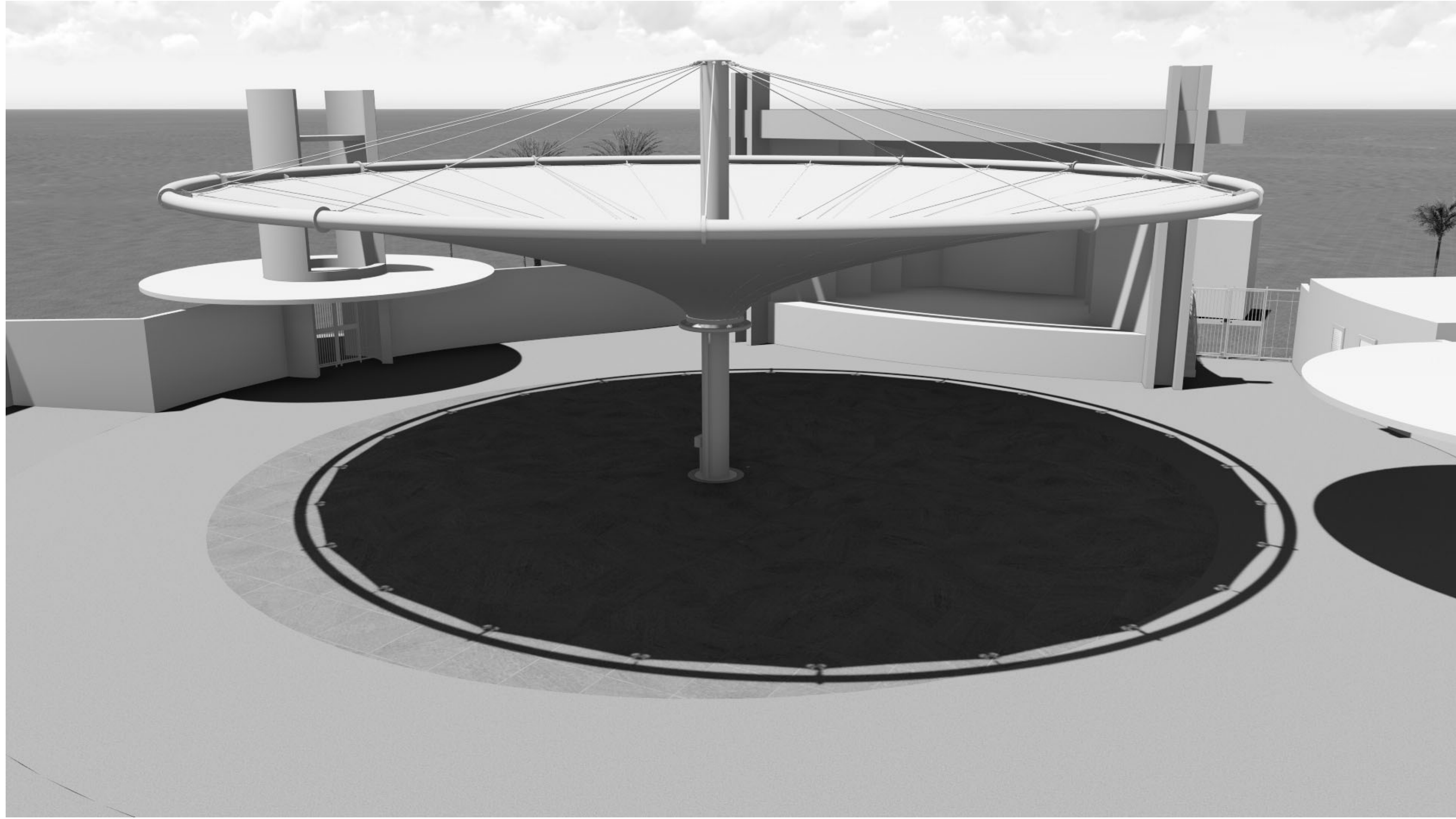
4 PLAN VIEW AT RING SPLICE



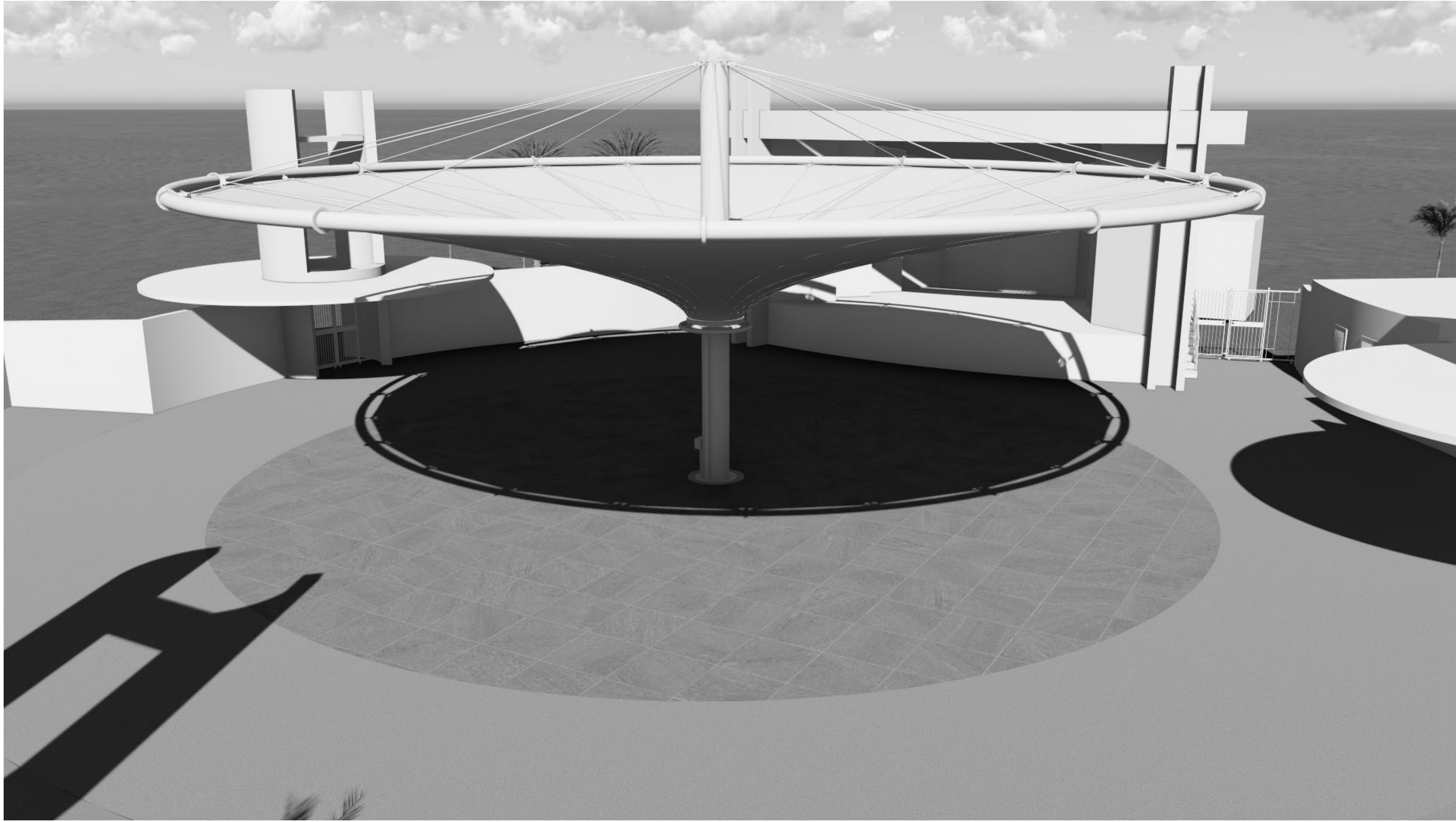
SOLAR POWERED LED LIGHTING
SELF-CONTAINED, REMOTE UNITS
PERMANENTLY INSTALLED ON THE
PERIMETER RING AT 6 LOCATIONS.

FINAL DRB SUBMITTAL

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① JUNE 30 / 2:30 PM



② DEC 30 / 2:30 PM

