



LAKE HAVASU CITY, ARIZONA
ADMINISTRATIVE SERVICES DEPARTMENT
◆ PROCUREMENT ◆

July 22, 2025

Request for Interest 26-PW-101009- 500697 for Main Street Commons Park Shade Canopies

Lake Havasu City (“City”) is requesting a Letter of Interest (“LOI”) and Statement of Qualifications (“SOQ”) from experienced and qualified metal fabrication contractors utilizing a two-step procurement process for selection of a qualified contractor to fabricate and install shade canopies at Main Street Commons Park, located at the corner of McCulloch Boulevard and Querio Drive. In Step One, the City is soliciting Letters of Interest and Statements of Qualifications from experienced and qualified metal fabrication contractors. The scope of work includes fabrication, transportation, installation, and painting of eight (8) additional conical shade canopies which must be exact replicas of the existing structures at the site. Contractors deemed qualified through this initial evaluation may be invited to participate in Step Two, which will involve submission of a formal bid in response to the forthcoming Invitation to Bid.

Contractors who may consider submitting a bid for the Main Street Commons Park Shade Canopies must return their LOI and Qualification Statement to the **City Clerk’s Office, 2330 McCulloch Boulevard N., Lake Havasu City, Arizona, 86403 no later than 3:00 p.m. Arizona Time on August 13, 2025.** Letters of Interest and Qualification Statements received by the correct time and date will be opened and read aloud immediately thereafter in Room 109 of Lake Havasu City Hall. Public openings may be attended virtually by accessing the following video conferencing system:

To join the opening on a computer or mobile phone:

<https://tinyurl.com/3f94b2ww>

Meeting ID: 270 366 031 956

Passcode: jcVbxK

Join with a video conferencing device

160264325@teams.bjn.vc

Video Conference ID: 112 219 692 0

Submittals must be clearly addressed to the City Clerk’s Office, 2330 McCulloch Blvd. N. Lake Havasu City, Arizona 86403, and received no later than the exact time and date indicated above. Late submittals will not be considered under any circumstances.

Submittals must be submitted in a sealed envelope with the Project Number and the bidder's name and address clearly indicated on the envelope. All submittals must be completed in ink or typewritten on a form to be obtained from the solicitation request returned along with the response no later than the time and date cited above. Bidders interested in taking advantage of the streamlined e-Bid process shall submit their responses electronically via the City's DemandStar Network at <https://www.demandstar.com/app/buyers/bids/504904/details>. Paper responses will continue to be accepted.

The following minimum requirements must be provided as part of the response to this letter of interest:

Letter of Interest Form – Attachment A

Bidder's Statement of Qualifications, Section 00420 – Attachment B

The City reserves the right to reject any or all responses if not in compliance with the requirements of this LOI and may reject for good cause any or all LOIs if the City finds it is in the public interest to do so. In the event more than one qualified submittal is received in response to this LOI, a Request for Proposal (RFP) process will be issued to select and award a supplier.

QUESTIONS: All questions that arise relating to this solicitation shall be directed in writing to purchasing@lhcaz.gov with a copy to capitalprogams@lhcaz.gov. To be considered, written inquiries shall be received at the above-referenced email address by August 4, 2025, 3:00 p.m. Arizona Time. Inquiries received will then be answered in an Addendum.

Enclosed: Plans

Public Notice Publication Dates: July 22, 23, 24 & 25, 2025 (Havasut News Herald)
Paper & Online

**** END OF DOCUMENT ****

ATTACHMENT A
LETTER OF INTEREST NOTIFICATION

LETTER OF INTEREST (LOI): 26-PW-101009-500697

PROJECT TITLE: Main Street Commons Park Shade Canopies

CLOSING DATE & TIME: August 13, 2025 at 3:00 p.m. Arizona Time

LETTER OF INTEREST

This is notification of our interest to submit a bid for the above referenced project.

The individual to whom all information regarding this Invitation to Bid should be submitted to is:

Company Name: _____

Contact Name: _____

Street Address: _____

City, State, & Zip: _____

Phone Number: _____

Fax Number: _____

E-Mail Address: _____

Additional Information not requested in the Bidder's Statement of Qualifications, Section 00420, may be submitted by attaching separate sheets as required.

This Letter of Interest and Statement of Qualification must be submitted by the deadline specified as instructed on the first page.

ATTACHMENT B

SECTION 00420 BIDDER'S STATEMENT OF QUALIFICATIONS

Additional Information not requested in the Bidder's Statement of Qualifications, Section 00420,
may be submitted by attaching separate sheets as required.

SECTION 00420
BIDDER'S STATEMENT OF QUALIFICATIONS

The Undersigned certifies the truth and correctness of all statements and of all answers to questions made hereinafter.

SUBMITTED TO: Lake Havasu City, Arizona
2330 N. McCulloch Boulevard
Lake Havasu City, AZ 86403

SUBMITTED BY: NAME: _____ ☐ Corporation
ADDRESS: _____ ☐ Partnership
☐ Individual
PRINCIPAL OFFICE: _____ ☐ Joint Venture
☐ Other

(NOTE: Attach separate sheets as required)

1. How many years has your organization been in business as a Contractor?

2. How many years has your organization been in business under its present business name?

3. If a Corporation, answer the following:
Date of Incorporation: _____
State of Incorporation: _____
President: _____
Vice President(s): _____
Secretary: _____
Treasurer: _____

4. If a Partnership, answer the following:
Date of organization: _____
Type of Partnership: _____
(General/Limited/Assoc.)
Name and Address of all partners.

5. If other than a Corporation or Partnership, describe Organization and name Principals:

6. What percent of the work do you normally perform with your own forces?
List trades:

7. Have you ever failed to complete any work awarded to you? If so, indicate when, where and why:

8. Has any Officer or Partner of your Organization ever been an Officer or Partner of another Organization that failed to complete a construction contract? _____ If so, state circumstances:

9. List major construction projects your Organization has under contract on this date:

Project Name	Name, Email Address & Telephone Number of Owner	Project Location	Contract Amount	Contract Date	Percent Complete	Scheduled Completion

10. List similar construction projects your Organization has completed in the past five years:

Project Name	Name, Email Address & Telephone Number of Owner	Project Location	Contract Amount	Date Awarded	Date Completed	Percent with Own Forces

11. List the construction experience of the principal individuals in your Organization:

Individual's Name	Construction Experience - Years	Within Your Organization		
		Present Position & Years Experience	Dollar Volume Responsibility	Previous Position & Years Experience

12. Business in Arizona: The City will not enter into contracts with Bidders (or any company(ies)) not granted authority to transact business, or not in good standing in the State of Arizona by the Arizona Corporation Commission, unless the Bidder asserts a statutory exemption prior to entering into a contract with the City. The Undersigned agrees to furnish, upon request by the Owner, within seven days after the Bid Opening, a current Certificate of Good Standing and Compliance, and other related documents as requested.

13. List states and categories in which your Organization is legally qualified to do business:

14. List all Arizona Contractor licenses currently held by your Organization; the status of each license; and provide a photocopy of each license with your bid proposal.

	<u>License Class / #</u>	<u>Status</u>
1.	<hr/>	<hr/>
2.	<hr/>	<hr/>
3.	<hr/>	<hr/>
4.	<hr/>	<hr/>

Please attach a list of additional Arizona Contractor licenses, if any.

15. Bank References:

16. Trade References:

17. Name of Bonding and Insurance Companies and Name and Address of Agents: Maximum Bonding Capacity

18. The Undersigned agrees to furnish, upon request by the Owner, within seven days after the Bid Opening, a current Statement of Financial Conditions, including Contractor's latest regular dated financial statement or balance sheet which must contain the following items:

Current Assets: (Cash, joint venture accounts, accounts receivable, notes receivable, accrued interest on notes, deposits, and materials and prepaid expenses), net fixed assets and other assets.

Current Liabilities: (Accounts payable, notes payable, accrued interest on notes, provision for income taxes, advances received from owners, accrued salaries, accrued payroll taxes), other liabilities, and capital (capital stock, authorized and outstanding shares par values, earned surplus).

Date of statement or balance sheet:

Name of firm preparing statement:

By:

(Agent and Capacity)

19. List of Subcontractors. In accordance with paragraph 1.0 of Instructions to Bidders, the following is a breakdown of all subcontractors anticipated to be used for completing this project and their approximate percentage of work to be performed.

The Bidder certifies that all Subcontractors listed are eligible to perform Work on public works projects pursuant to ARS 34-241.

<u>Subcontractor</u>	<u>Description of Work</u>	<u>% of Total Project</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total % of all Subcontractor's work on project		_____
Total % for Prime Contractor		_____

20. Dated on this _____ day of _____, _____

Name of Organization: _____

By: _____

Title: _____

**** END OF SECTION ****

LAKE HAVASU CATALYST PROJECT

100% CONSTRUCTION DOCUMENTS

TEAM INFORMATION:

OWNER/DEVELOPER:
CITY OF LAKE HAVASU
MIKE KEANE
PARKS AND REC. DIRECTOR
100 PARK AVE.
LAKE HAVASU CITY, AZ 86403
E: KeaneM@lhcaz.gov

LANDSCAPE ARCHITECT:
DIG STUDIO INC.
CHAD ATTERBURY, PLA
600 N. 4TH ST., SUITE D
PHOENIX, ARIZONA 85004
P: 602.595.4101
E: chad@digstudio.com

ARCHITECT:
LAST ARCHITECTS
BRAD LANG
3555 N 5th AVE. 207
PHOENIX, AZ 85013
P: 480.570.5296
E: brad@lastarchitects.com

CIVIL & STRUCTURAL ENGINEER:
MICHAEL BAKER INTERNATIONAL
JIM MARTIN
2929 N. CENTRAL AVE, 8TH FLOOR
PHOENIX, AZ 85012
P: 602.308.1333
E: Jim.Martin@mbakerintl.com

ELECTRICAL ENGINEER:
WRIGHT ENGINEERING
CLIFF TOLMAN
165 E. CHILTON DR.
CHANDLER, ARIZONA 85225
P: 480.497.5829
E: ctolman@wrihlengineering.us

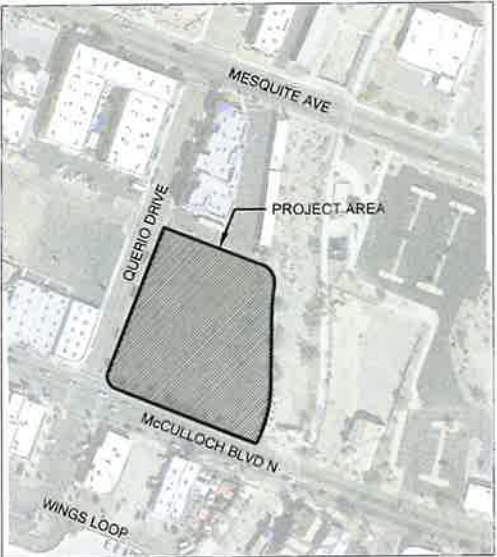
LAYOUT NOTES

1. VERIFY EXISTING SITE INFORMATION INCLUDING, BUT NOT LIMITED TO STREET GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS AND GUTTERS TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS.
2. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
3. TAKE ALL DIMENSIONS FROM BACK OF CURB, FACE OF WALL OR BUILDING, AND CENTERLINE OF TREES UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS CALLED OUT AS 'EQUAL' ARE EQUIDISTANT MEASUREMENTS.
5. WRITTEN DIMENSIONS SUPERCEDE SCALED DIMENSIONS. DO NOT SCALE DRAWINGS, IF THERE IS A QUESTION REGARDING DIMENSIONS, CONTACT DIG STUDIO FOR VERIFICATION.
6. ALL ANGLES TO MATCH THOSE NOTED ON DRAWING AND ALL LINES OF PAVING TO BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON DRAWINGS.
7. REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL SIZED DRAWINGS ONLY. DO NOT SCALE FROM DRAWINGS.
8. CONCRETE SLABS OR FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS WHERE SHOWN ON THE PLAN.
9. PROVIDE EXPANSION JOINTS IN CONCRETE PAVING A MAXIMUM DISTANCE OF 30' ON CENTER, EACH WAY, AND AT ALL INTERSECTIONS, WHERE NEW CONCRETE ABUTS EXISTING CONCRETE PAVING, BUILDINGS, CURBS, WALLS, AND COLUMNS UNLESS OTHERWISE NOTED.
10. PROVIDE CONTROL JOINTS EVENLY SPACED BETWEEN EXPANSION JOINTS AS SHOWN ON DRAWINGS, EXCEPT WHERE SPECIAL SCORE JOINT PATTERN IS SPECIFIED.
11. SLEEVES AND CONDUITS SHALL BE INSTALLED A MINIMUM OF 18 INCHES BELOW FINISHED GRADE AND SHALL EXTEND 12 INCHES BEYOND BACK OF CURBS, WALLS, AND PAVING.
12. COORDINATE AND FIELD VERIFY ALL SLEEVING LOCATIONS FOR ALL UTILITY, ELECTRICAL, AND IRRIGATION PRIOR TO CONSTRUCTION.
13. PROPOSED TREES IN THE RIGHT-OF-WAY SHALL BE PRE-APPROVED BY THE CITY FORESTERS OFFICE, OUTSIDE OF 33' CORNER SIGHT TRIANGLES AND 10' FROM EDGE OF DRIVEWAYS, ALLEYS AND HYDRANTS.

DEFERRED SUBMITTAL

1. PREFABRICATED CONTAINER RESTROOM - 40' DUAL GENDER WITH ACCESSIBLE FAMILY RESTROOM - FALCON STRUCTURES

VICINITY MAP: NTS



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PHOTOMETRIC ANALYSIS	SE4.1 - SE4.2

BID ADDITIVE ALTERNATE NUMBER 2 EXHIBIT
(BID ADDITIVE ALTERNATE AREAS SHOWN ON C-9)

Dig

600 N. 4TH STREET
PHOENIX, ARIZONA 85004
P: 602.595.4101
DIGSTUDIO.COM



100%
CONSTRUCTION
DOCUMENTS

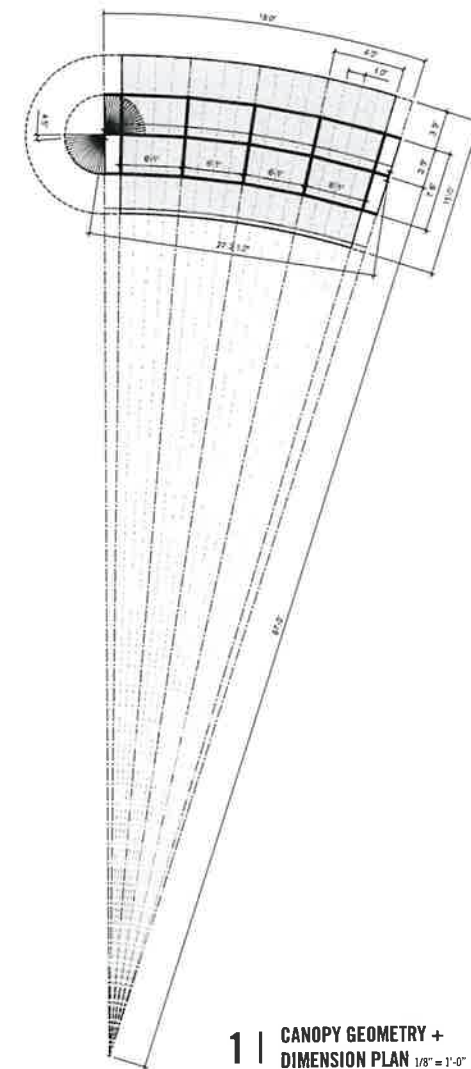
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PROJECT
2117 McCULLOCH BLVD.
LAKE HAVASU CITY, AZ

NO
DATE
BY
REVISION

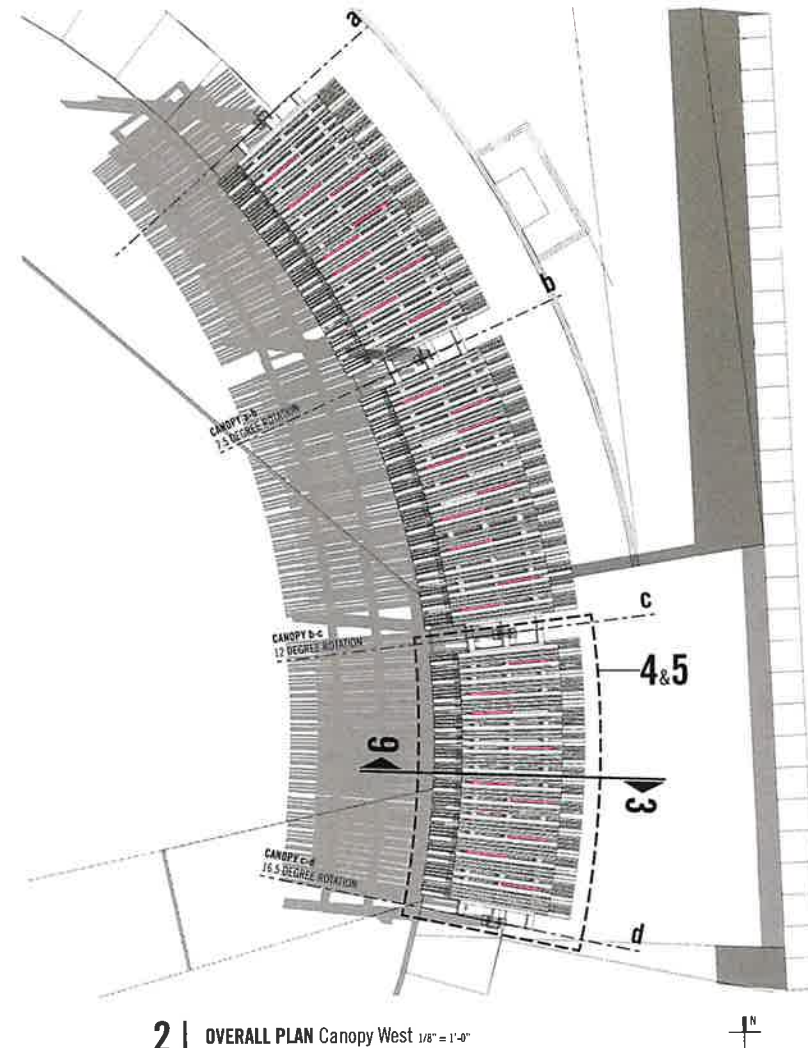


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CHECKED: JH/CA
DATE: 6.19.2023
SHEET NO:
COVER SHEET

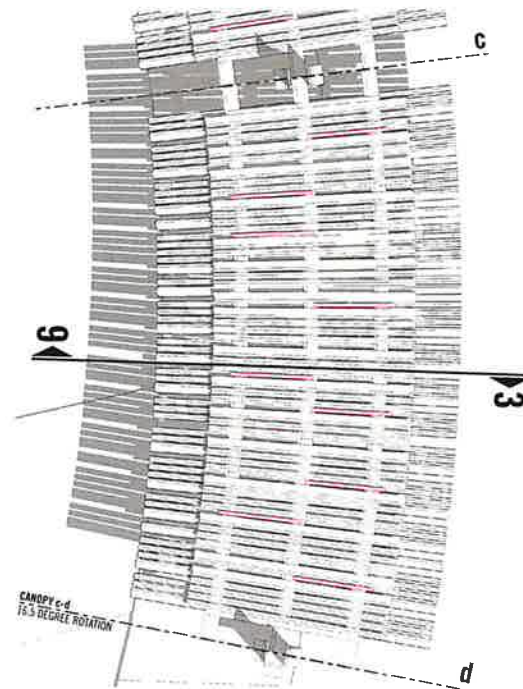
L001



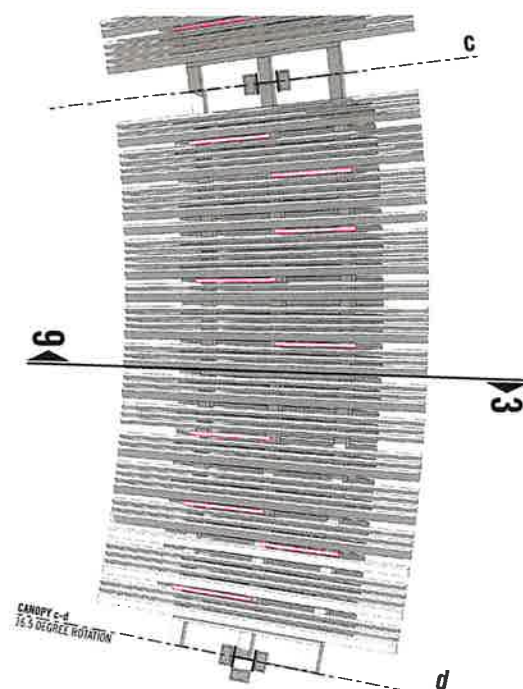
1 | CANOPY GEOMETRY +
DIMENSION PLAN 1/8" = 1'-0"



2 | OVERALL PLAN Canopy West 1/8" = 1'-0"



4 | ENLARGED BAY PLAN Canopy East 1/4" = 1'-0"

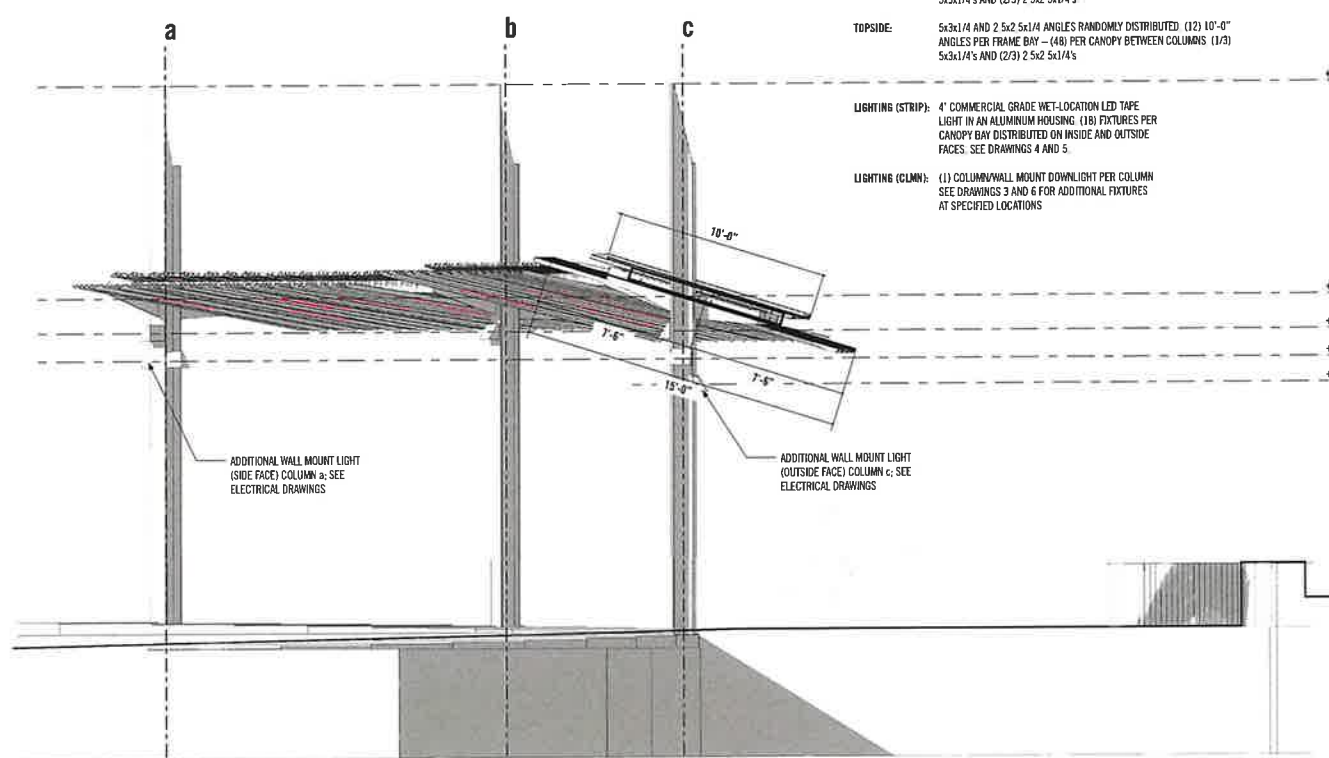


5 | ENLARGED BAY RCP Canopy East 1/4" = 1'-0"

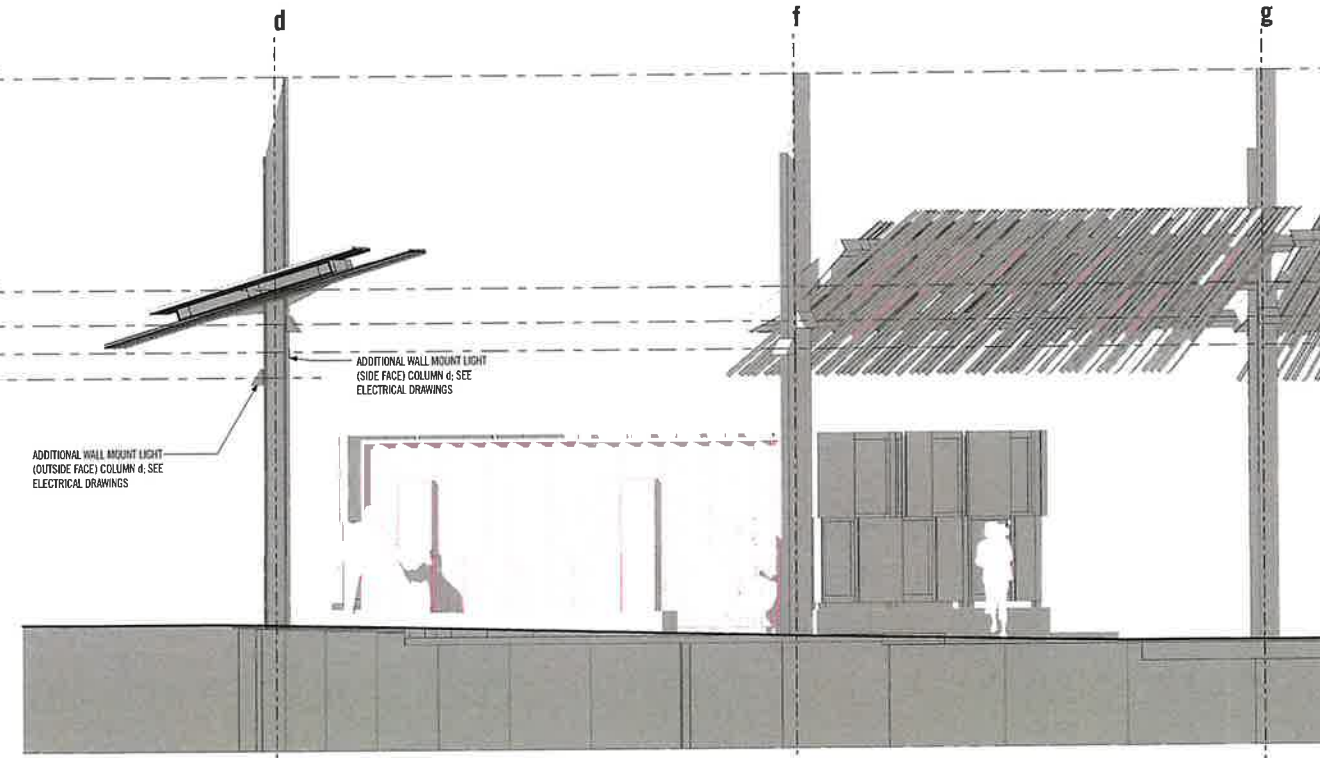
NOTES:
ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
FRAME: HSS 7x7x1/4 WELDED STEEL FRAME - SEE DRAWING 1 FOR LAYOUT AND DIMENSIONS
UNDERSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED: (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS: (1/3) 5x3x1/4'S AND (2/3) 2 5x2 5x1/4'S
TOPSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED: (12) 10'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS: (1/3) 5x3x1/4'S AND (2/3) 2 5x2 5x1/4'S

LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING, (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 4 AND 5.

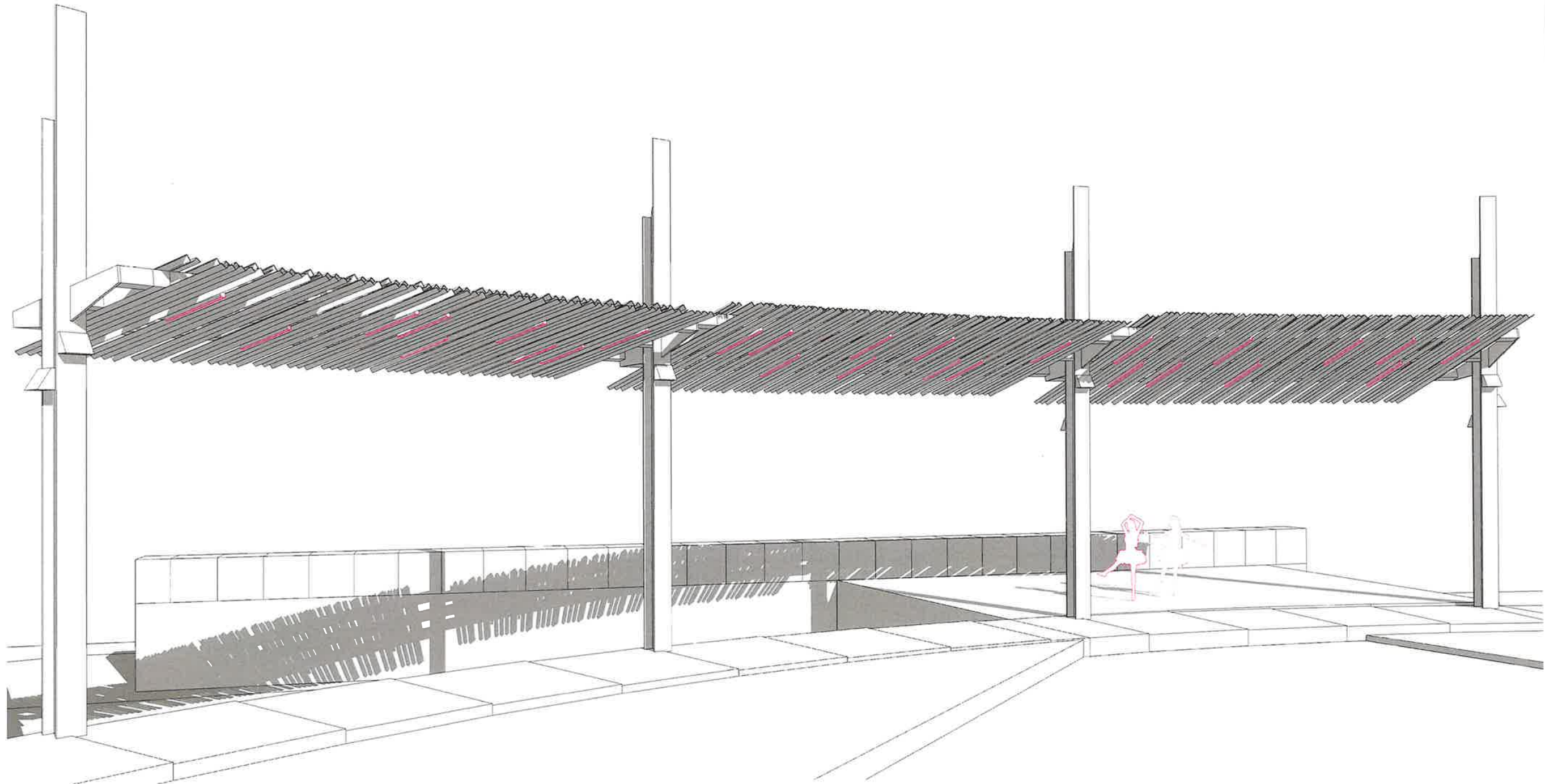
LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 3 AND 6 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS



6 | CANOPY SECTION
Transverse North 1/4" = 1'-0"



3 | CANOPY SECTION
Transverse South 1/4" = 1'-0"



1 | Perspective View East Canopy Looking Southeast from Inside Hub

NOTE: CANOPY LIGHTS SHOWN IN COLOR FOR DIAGRAMMATIC PURPOSES ONLY



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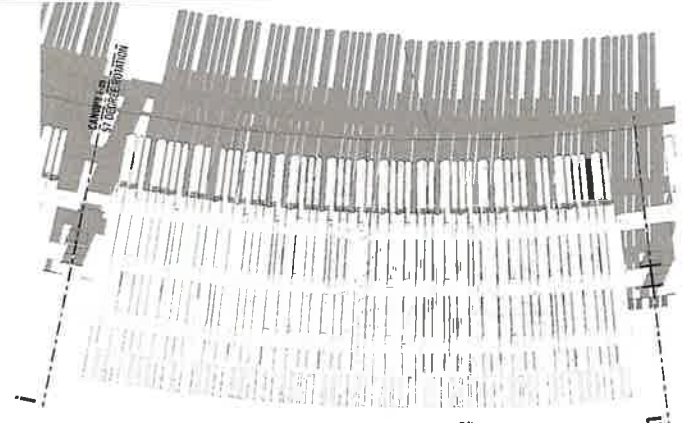


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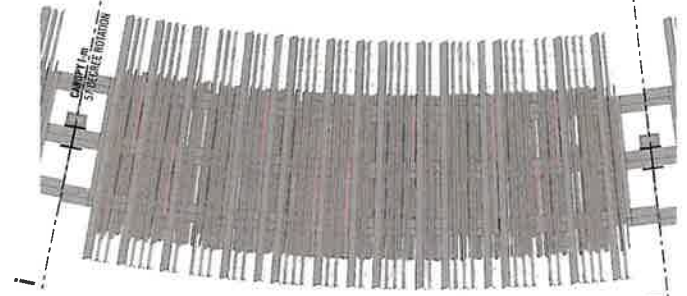
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LAKE HAVASU CITY, AZ

NO	DATE	BY	REVISION

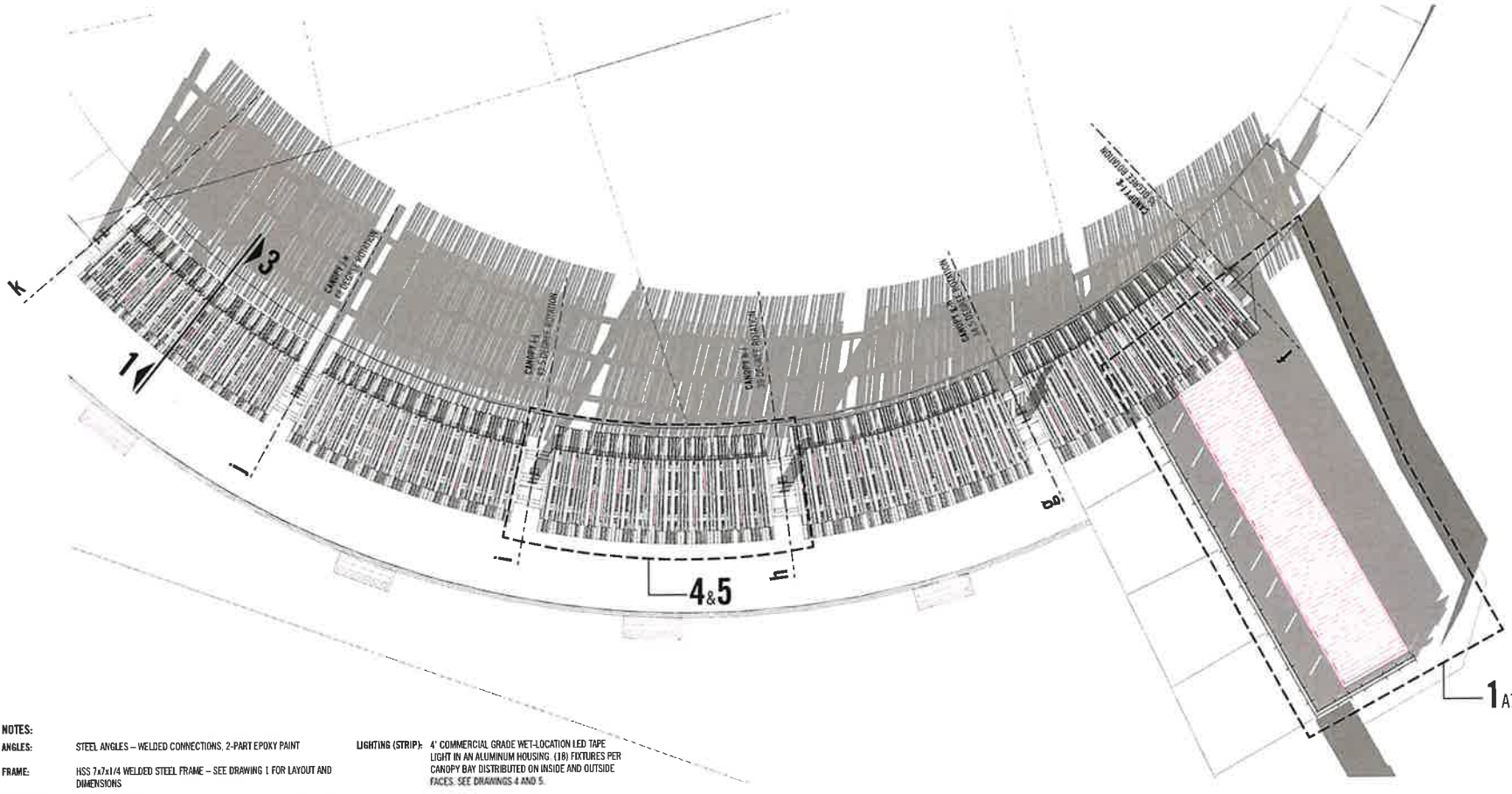
DRAWN: LAST Architects
DESIGN: LAST Architects
CHECKED: June 18, 2023
DATE: June 18, 2023
SHEET NO:
A2
EAST CANOPY
Perspective View



4 | ENLARGED BAY PLAN Canopy South 1/4" = 1'-0"

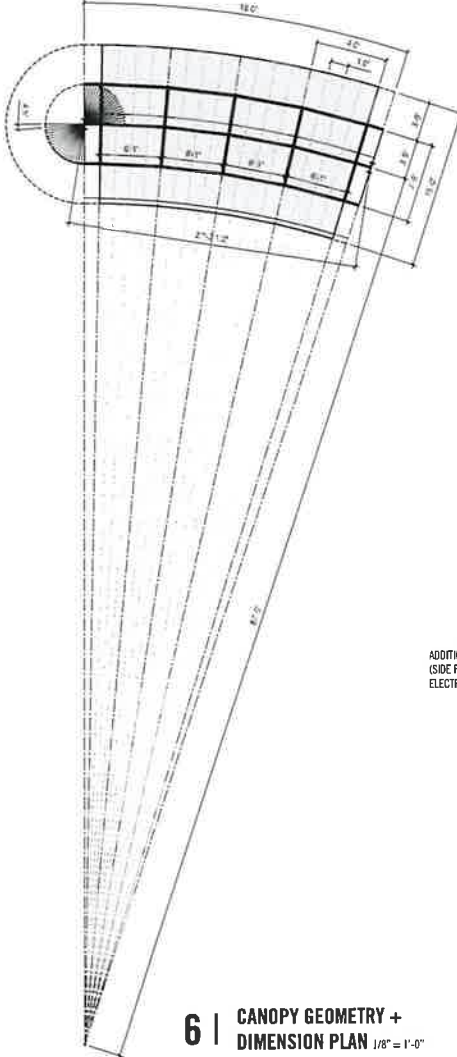


5 | ENLARGED BAY RCP Canopy South 1/4" = 1'-0"

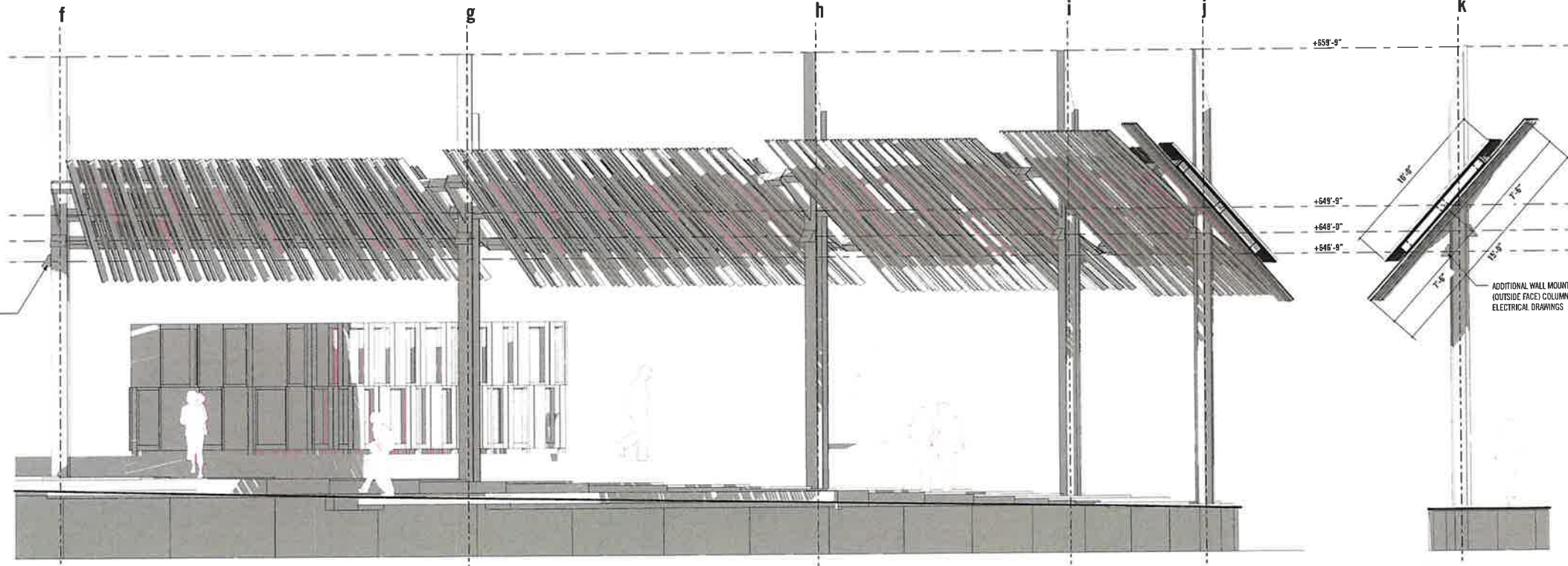


2 | OVERALL PLAN Canopy South 1/8" = 1'-0"

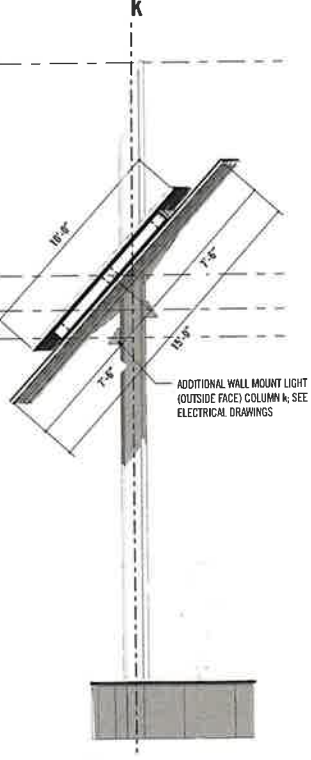
NOTES:
ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
FRAME: HSS 7x7x1/4 WELDED STEEL FRAME - SEE DRAWING 1 FOR LAYOUT AND DIMENSIONS
UNDERSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4's AND (2/3) 2 5x2 5x1/4's
TOPSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 10'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4's AND (2/3) 2 5x2 5x1/4's
LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 4 AND 5.
LIGHTING (CLMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 1 AND 3 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS



6 | CANOPY GEOMETRY + DIMENSION PLAN 1/8" = 1'-0"



3 | CANOPY SECTION Transverse East 1/4" = 1'-0"



1 | CANOPY SECTION Transverse West 1/4" = 1'-0"



LAST ARCHITECTS
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P.O. Box 100000
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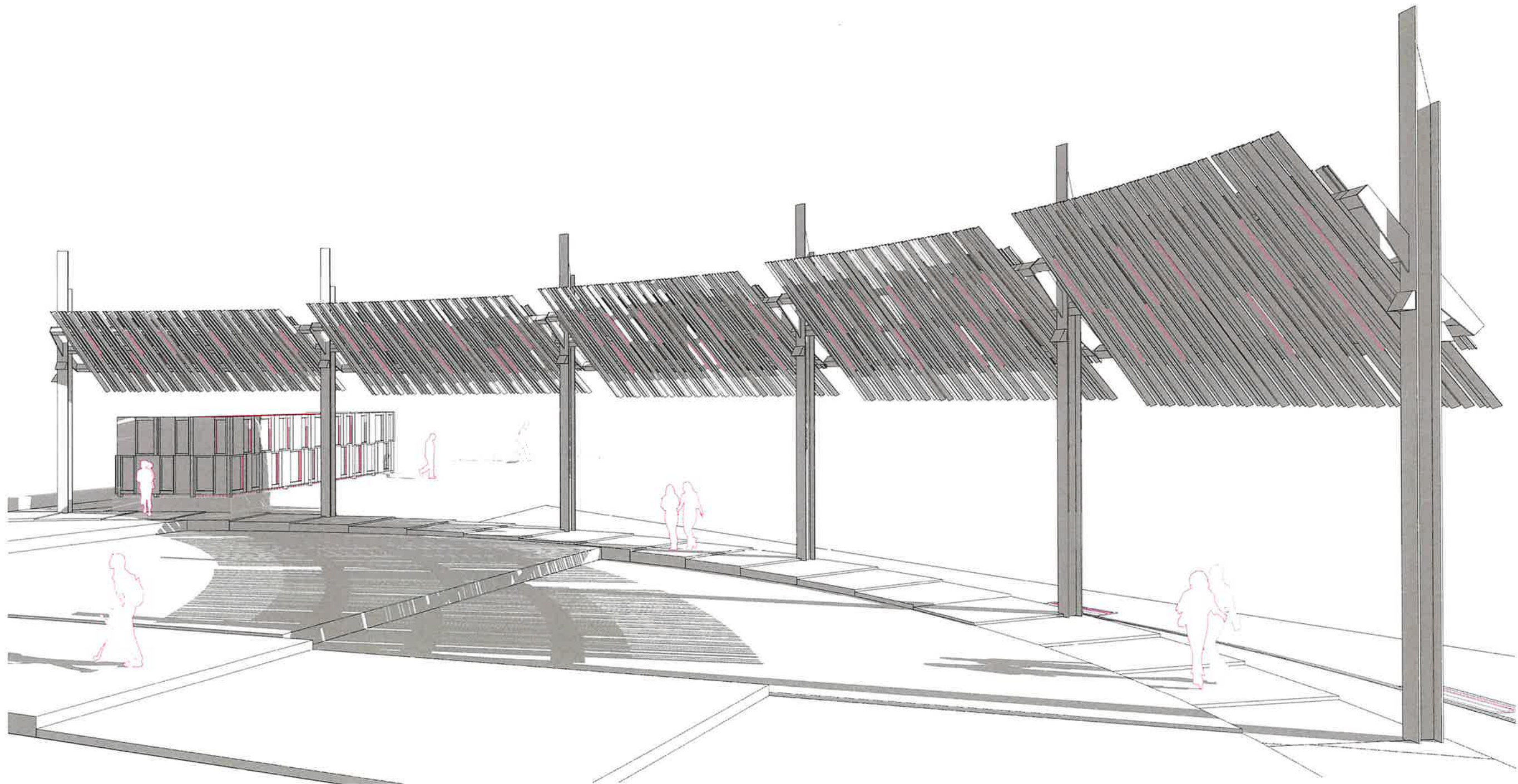


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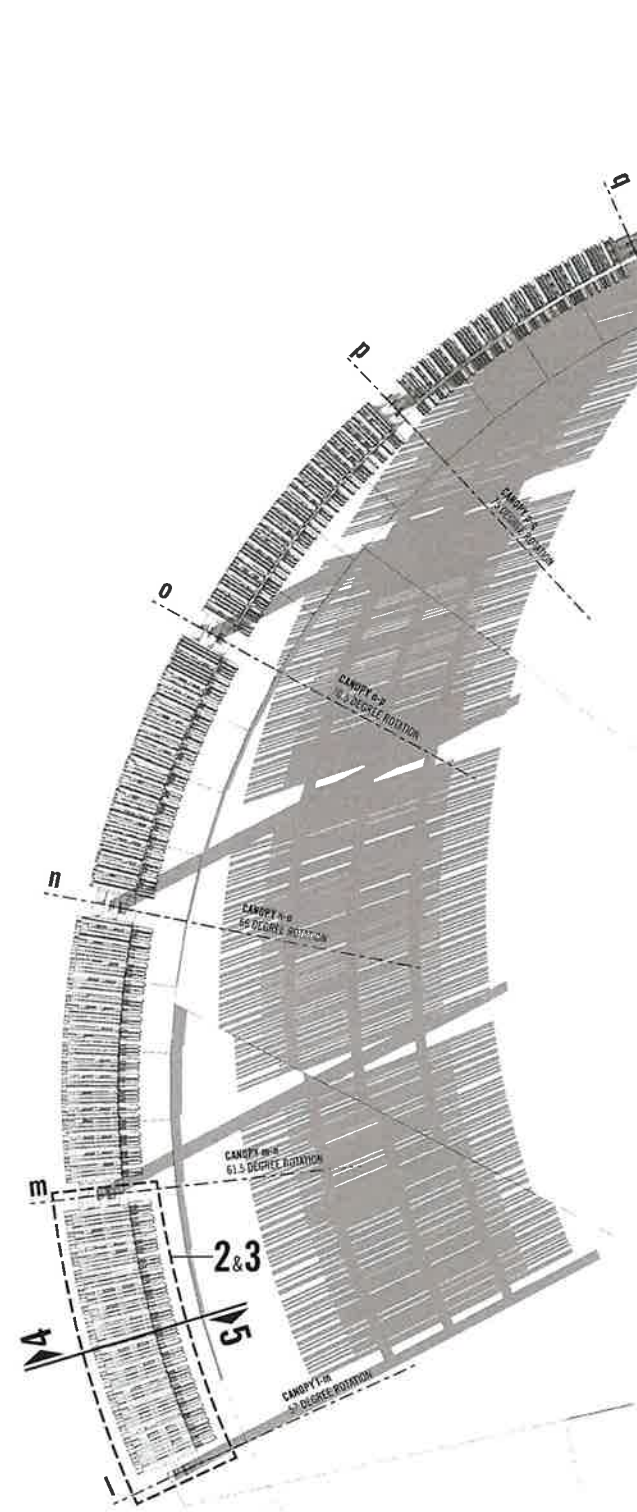
DRAWN: LAST Architects
DESIGN: LAST Architects
CHECKED: June 18, 2023
DATE: June 18, 2023
SHEET NO: A3
WEST CANOPY



1 | Perspective View South Canopy Looking Southeast from Inside Hub

NOTE: CANOPY LIGHTS SHOWN IN COLOR FOR DIAGRAMMATIC PURPOSES ONLY

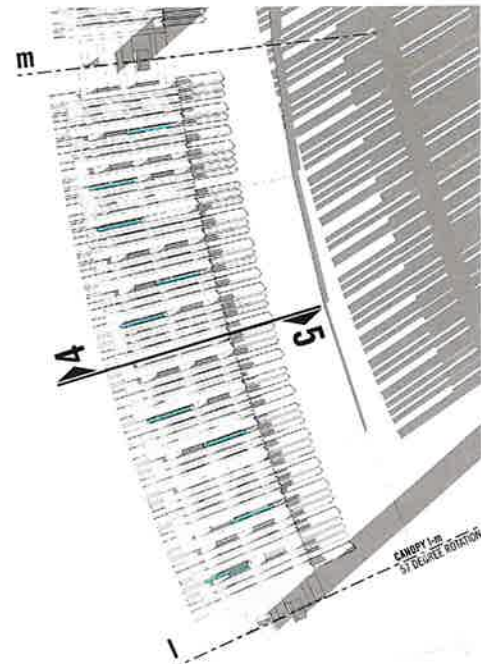
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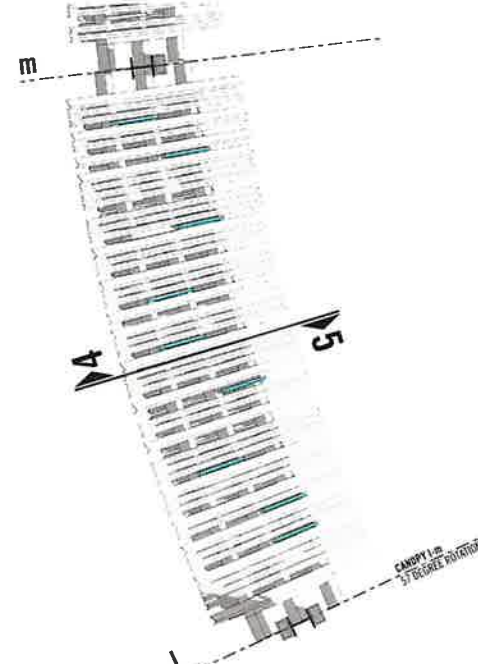
6 | OVERALL PLAN Canopy West 1/8" = 1'-0"

NOTES:
 ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
 FRAME: HSS 7x7x1/4 WELDED STEEL FRAME - SEE DRAWING 1 FOR LAYOUT AND DIMENSIONS
 UNDERSIDE: 5x3x1/4 AND 2.5x2.5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4'S AND (2/3) 2.5x2.5x1/4'S
 TOPSIDE: 5x3x1/4 AND 2.5x2.5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 10'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4'S AND (2/3) 2.5x2.5x1/4'S

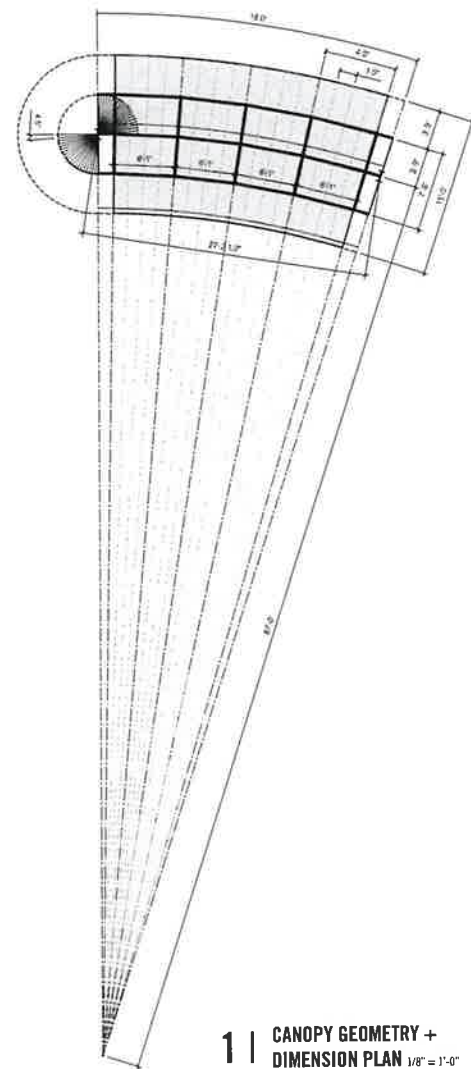
LIGHTING (STRIP): 4" COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 2 AND 3
 LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN. SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS



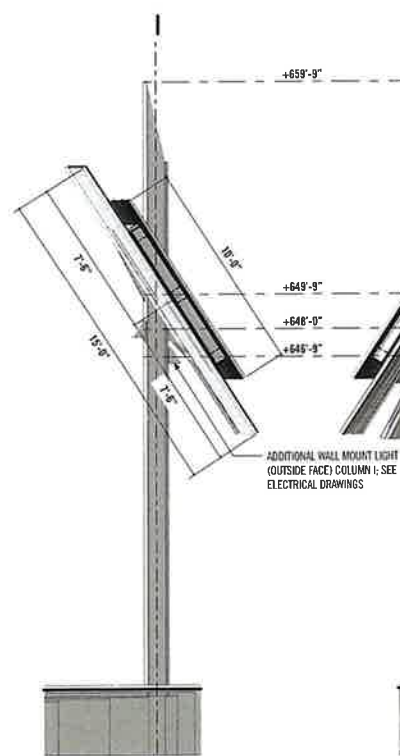
3 | ENLARGED BAY PLAN Canopy West 1/4" = 1'-0"



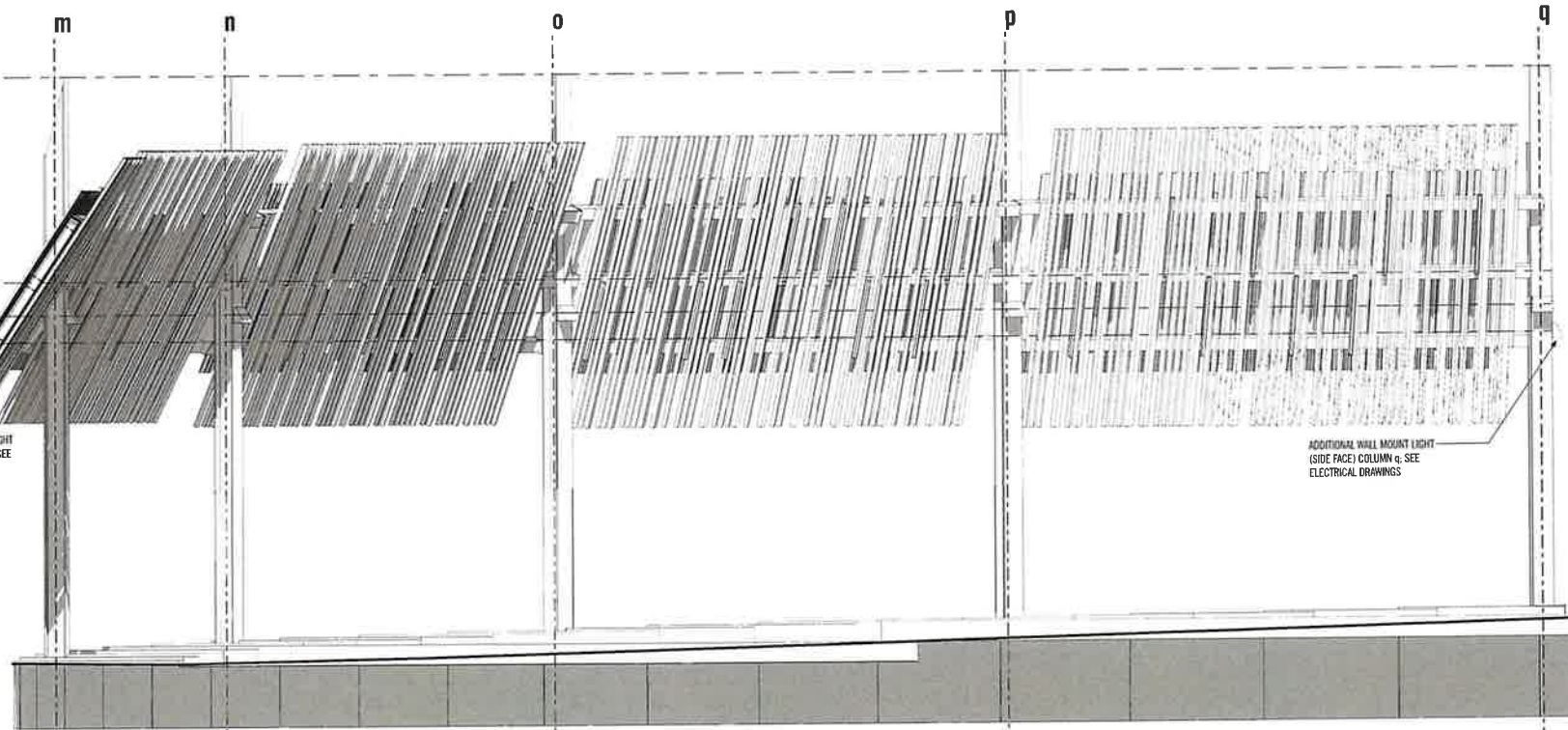
2 | ENLARGED BAY RCP Canopy West 1/4" = 1'-0"



1 | CANOPY GEOMETRY + DIMENSION PLAN 1/8" = 1'-0"



5 | CANOPY SECTION Transverse South 1/4" = 1'-0"



4 | CANOPY SECTION Transverse North 1/4" = 1'-0"

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 Studio

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 Suite 200
 Phoenix, Arizona 85004
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 www.lastarchitects.com



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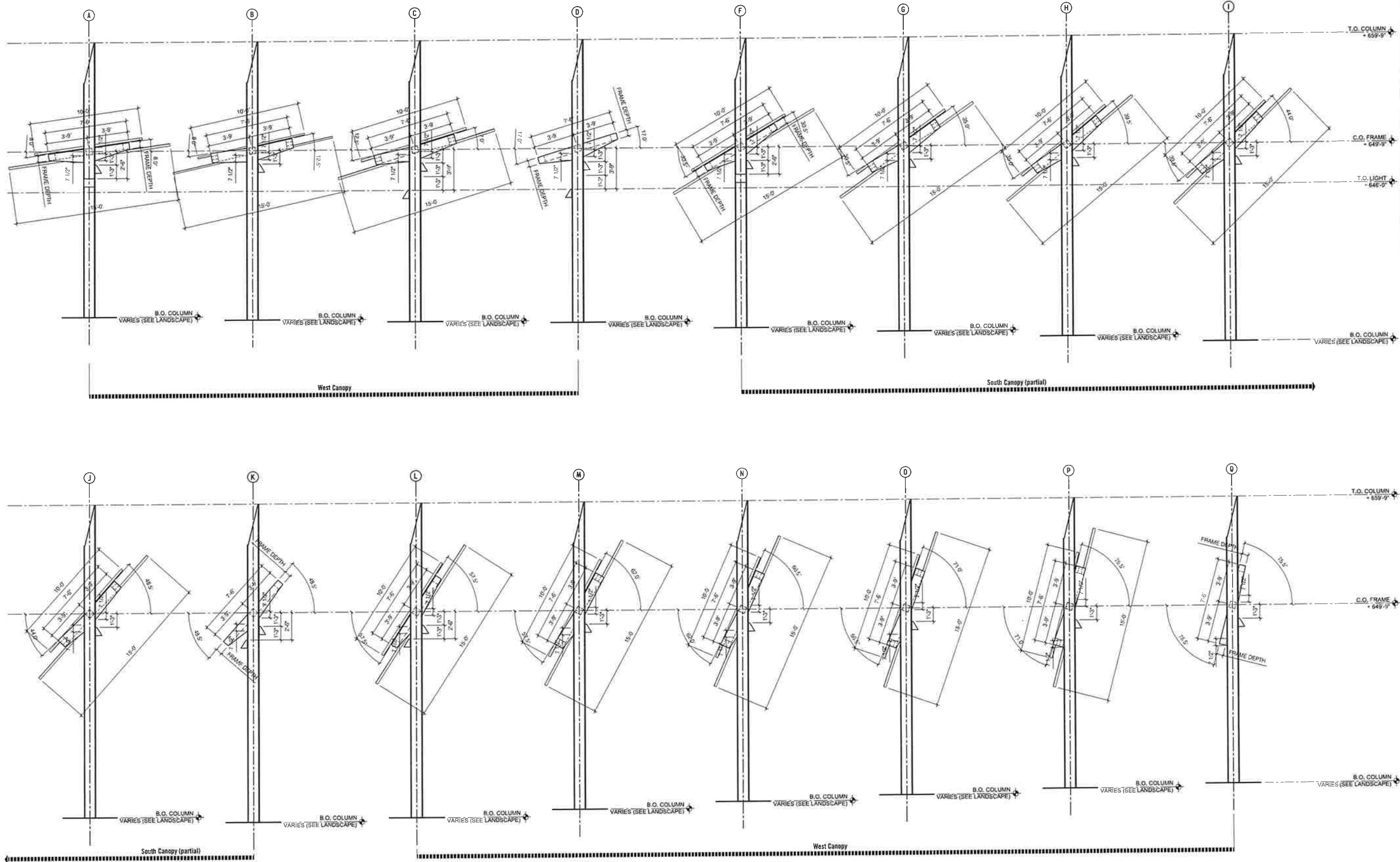
PROJECT

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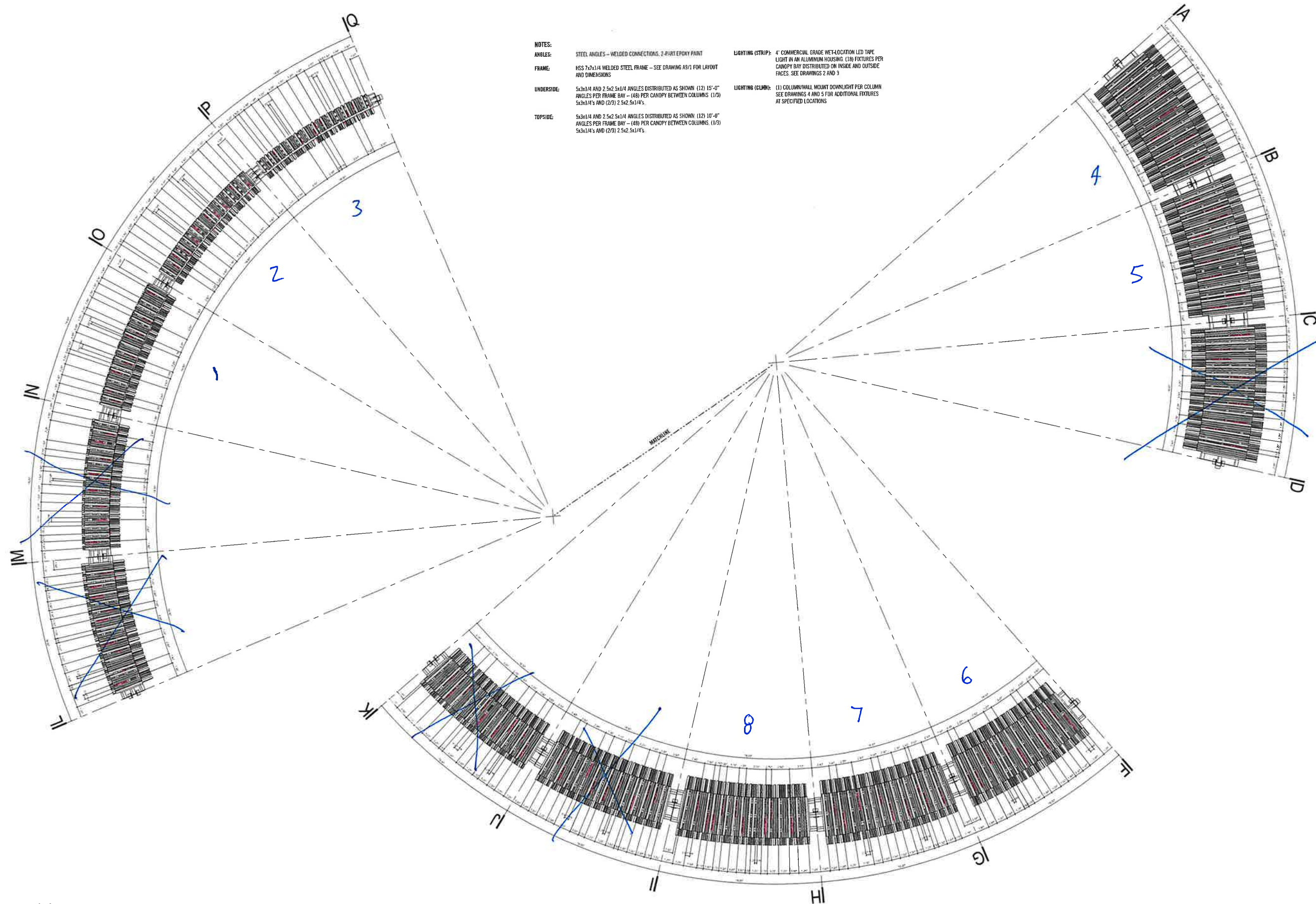
DRAWN: LAST Architects
 CHECKED: June 19, 2022
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A5
 WEST CANOPY



1 | Column Elevations East, South, and West Canopies 1/4" = 1'-0"

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LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING. (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 2 AND 3

LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN. SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS

LIGHTING (CLMN): (1) COLUMN/WALL, MOUNT DOWNLIGHT PER COLUMN
SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES
AT SPECIFIED LOCATIONS

LAST ARCHITECTS

LAST
115 E Grant Street
Phoenix, AZ 85004
(602) 570-5256
www.austarchitects.com

Permit
CONSTRUCTION
DOCUMENTS

LAKE HAVASU CATALYST

AVASU CA
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[illegible]

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DESIGN	LAST Architects
CHECKED	
DATE	June 19, 2023
SHEET NO:	

A10

CANOPY LAYOUT
Plan



LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 2 AND 3.

LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS.

A11
CANOPY LAYOUT
Reflected Ceiling Plan

GENERAL STRUCTURAL NOTES

BUILDING CODE:
2018 EDITION OF BUILDING CODE AND STANDARDS REFERENCED THEREIN.

LOADS:
CANOPY ROOFS:
ROOF LIVE LOAD = 20 PSF (REDUCIBLE),
ROOF DEAD LOAD = 20 PSF,
NET AND UPLIFT = 10 PSF, (DESIGN BASED ON 0.6D — 0.6W)

LATERAL:

WIND:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)
V_{ULT} = 99 MPH, EXPOSURE C
RISK CATEGORY II

SEISMIC:
RISK CATEGORY, II,
SEISMIC IMPORTANCE FACTOR, I = 1.00,
MAPPED SHORT PERIOD SPECTRAL ACCELERATION, S_s = 0.189,
MAPPED ONE SECOND SPECTRAL ACCELERATION, S₁ = 0.113,
SOIL SITE CLASS, D,
DESIGN SHORT PERIOD SPECTRAL ACCELERATION, S_{ds} = 0.201,
DESIGN ONE SECOND SPECTRAL ACCELERATION, S_{d1} = 0.178,
SEISMIC DESIGN CATEGORY, C.

FOR DEFLECTION/CAMBER CRITERIA OF STRUCTURAL MEMBERS ENGINEERED BY OTHERS, SEE SPECIFIC MEMBER'S SECTION BELOW

FOUNDATIONS:
GEOTECHNICAL REPORT BY NINYO & MOORE; JOB NO. 606984001 DATED JUNE 9, 2022. CANOPY STRUCTURE SHALL BE SUPPORTED ON DEEP FOUNDATION SYSTEM – CAST-IN-PLACE DRILLED SHAFTS USING AN ALLOWABLE SKIN FRICTION = 80<4000 PSF OR 80 KSF FOR GP-GM MATERIAL AND IGNORING UPPER 24 INCHES TO ACCOUNT FOR SURFACE DISTURBANCE.

Table 2 – Drilled Shaft Lateral Analysis Parameters							
Material	Recommended Soil Type to Model	Depth Range (ft)	Effective Unit Weight (pcf)	Angle of Internal Friction, phi (degrees)	Undrained Shear Strength, Cohesion, c (psf)	Modulus of Subgrade Reaction, K (pcf)	Soil Strain Ratio, e _{max}
Poorly Graded Gravel with Silt (GP-GM)	Gravel (Reese)	Varies	125	35	0	225	N/A
Poorly Graded Sand (SP), Silty Sand (SM)	Sand (Reese)	Varies	115	28	0	90	N/A

CONCRETE:

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F_c:

FOUNDATIONS (DESIGN BASED ON 2,500 PSI) ————— 3,000 PSI

GENERAL:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE ACI STANDARDS. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHER CASE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, ANOTHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEERS APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (IE: FOOTINGS, PIERS, COLUMNS, BEAMS, ELEVATED SLABS, ETC.) WITHOUT EXPRESSED APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

FLY ASH — IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR ACID FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

CLEAR DISTANCE SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN CLEAR DIMENSION PLUS 3/8", ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (Fy = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (Fy = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER, WHERE SHOWN ON DRAWINGS. ALL GRADE 60 REINFORCING TO BE YELDED SHALL BE ASTM A706, WELDED GAGE REINFORCING PER ASTM A1064, WIRE PER ASTM A1064. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH STRUCTURAL ENGINEER. REFERENCED ACI STANDARDS AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
3" EXPOSED TO EARTH OR WEATHER #6 OR LARGER ————— 2"

#5 AND SMALLER ————— 1 1/2"

ALL OTHER PER REFERENCED EDITION OF ACI 318

ALL DIMENSIONS REFERENCED IN DRAWINGS AS CLEAR DIMENSIONS

STRUCTURAL STEEL:

GENERAL:
ALL STEEL CONSTRUCTION PER REFERENCED AISC STEEL CONSTRUCTS ON MANUAL. ALL WIDE FLANGE STEEL SHALL BE ASTM A992 (Fy = 50 KSI), ALL PIPE STEEL SHALL BE ASTM A500 (Fy = 42 PSI) OR ASTM A53, TYPE E OR S, GRADE B (Fy=35 KSI), ALL TUBE STEEL SHALL BE ASTM A500 (Fy=46 KSI), ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy=36 KSI), THE TERMS PIPE AND ROUND HOLLOW STRUCTURAL ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS

ALL STRUCTURAL ROLLED STEEL MEMBERS WITH Fy GREATER THAN 36 IRSI ARE TO BE IDENTIFIED WITH AN ASTM SPECIFICS ON MARK OR TAG PER IBC SEC. 2203.1.

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. A325 BOLTS MAY BE SUBSTITUTED FOR A307 BOLTS AT THE CONTRACTOR'S OPTION, REVERSE SUBSTITUTION IS NOT PERMITTED. ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SNUG TIGHT INSTALLATION, UNLESS NOTED OTHERWISE.

STEEL ERECTION NOTE:
PER OSHA, STEEL MEMBERS AND DIAGONAL BRACING CANNOT BE RELEASED FROM HOISTING CABLES UNTIL ALL BOLTS OR WELDS AT MEMBER ENDS ARE COMPLETE.

HIGH STRENGTH BOLTS:
ALL HIGH STRENGTH BOLTS SHALL BE ASTM F3125 — GRADE A325 (PREVIOUSLY A325N) AND SHALL BE INSTALLED AS BEARING TYPE CONNECTIONS WITH READS INCLUDED IN SHEAR PLANE. THE TERMS ASTM F3125 — GRADE A325 AND ASTM A325N ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS. INSTALL WASHERS AND TIGHTEN "SNUG TIGHT" PER AISC SPECIFICATIONS.

NO DIRECT TENSION INDICATOR TIGHTENING DEVICES OR ALTERNATE DESIGN FASTENERS ARE PERMITTED WITH "SNUG TIGHT" APPLICATIONS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION, SEE ABOVE.

WELDING:
UNLESS NOTED OTHERWISE, ALL SHOP AND FIELD WELDS PER REFERENCED EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING DOCUMENTED CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOW ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

HIGH STRENGTH THREADED STUDS SHALL BE AUTOMATIC WELDED CONFORMING TO ALL REQUIREMENTS OF THE REFERENCED EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING". CONFORMANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL QUALITY CONTROL TESTING PROVISIONS OF THE AFOREMENTIONED PUBLICATIONS

SHOP DRAWINGS:
SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO DESIGN TEAM (SEOR AND AOR) FOR REVIEW. UNLESS NOTED OTHERWISE IN ARCHITECTURAL SPECIFICATIONS, ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANCES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVISING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE, EXCEPT WHERE NOTED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCT ON EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

VERIFY ALL DIMENSIONS AND ELONGATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED, OTHERWISE:

SPECIAL INSPECTIONS – STRUCTURAL ONLY (SSI):

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION, SSI SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE. SSI, UNDER CHAPTER 17 OF THE BUILDING CODE, IS REQUIRED FOR THE FOLLOWING ITEMS:

- CONCRETE CONSTRUCTION:
- CONCRETE:
 - DURING TAKING OF TEST SPECIMENS.
 - CONTINUOUS INSPECTION DURING PLACEMENT OF ALL REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
 - CONTINUOUS INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS. (EXCEPTION: NO INSPECTION IS REQUIRED FOR PLACEMENT OF CONCRETE AROUND FOUNDATION ANCHOR BOLTS)
 - REINFORCING STEEL:
INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO JOBSITE FOR THE FOLLOWING:
 - REINFORCING FOR ALL CONCRETE REQUIRED TO HAVE INSPECTION NOTED ABOVE.
 - REINFORCING FOR CONCRETE FOUNDATIONS.
- OTHER SPECIAL INSPECTIONS:
- GEOTECHNICAL INSPECTIONS – CAST IN PLACE DEEP FOUNDATIONS
- CONTINUOUS OBSERVATION OF DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH BORE LOCATION.
 - CONTINUOUS VERIFICATION OF PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, EMBEDMENT AND ADEQUATE END-BEARING STRATA CAPACITY.
 - REFER TO SOILS REPORT AND GEOTECHNICAL ENGINEER FOR CAISSON PREPARATION REQUIREMENTS AND RECOMMENDATIONS INCLUDING OTHER INSPECTION CRITERIA.

LAKE HAVASU CATALYST

PROJECT

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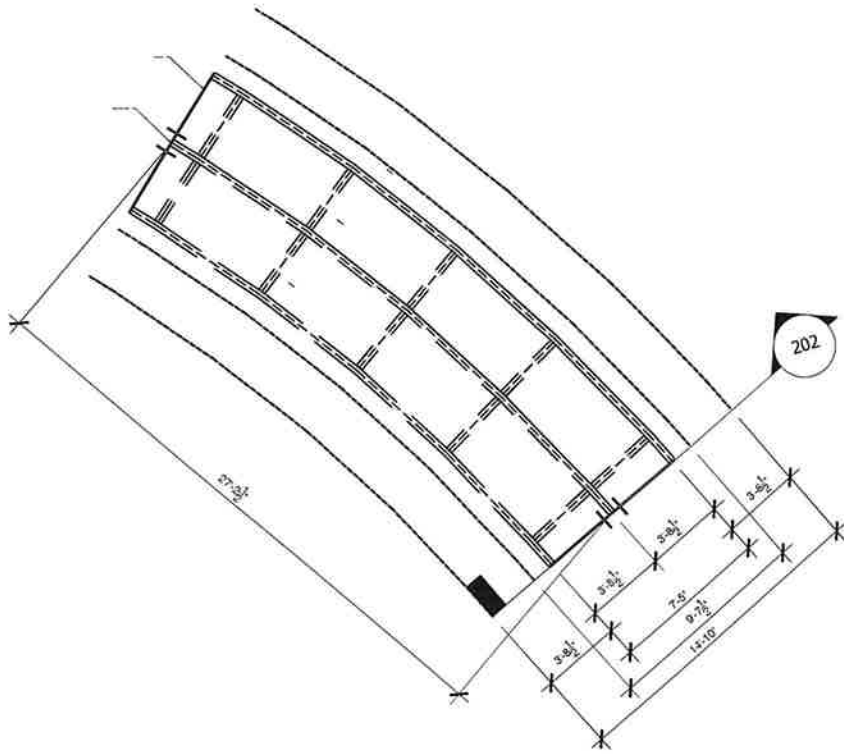
GENERAL STRUCTURAL NOTES

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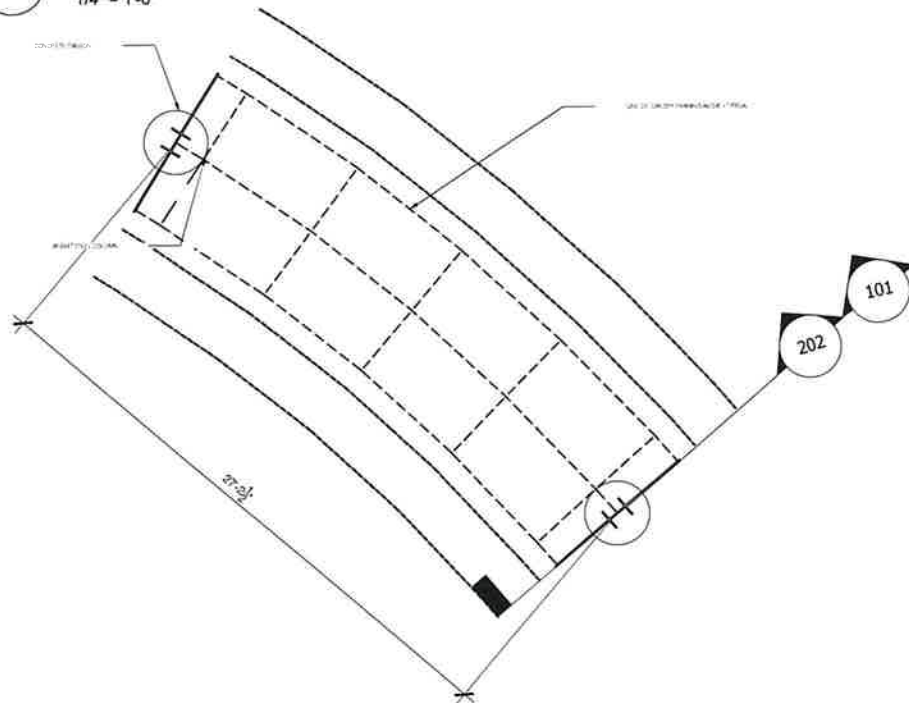


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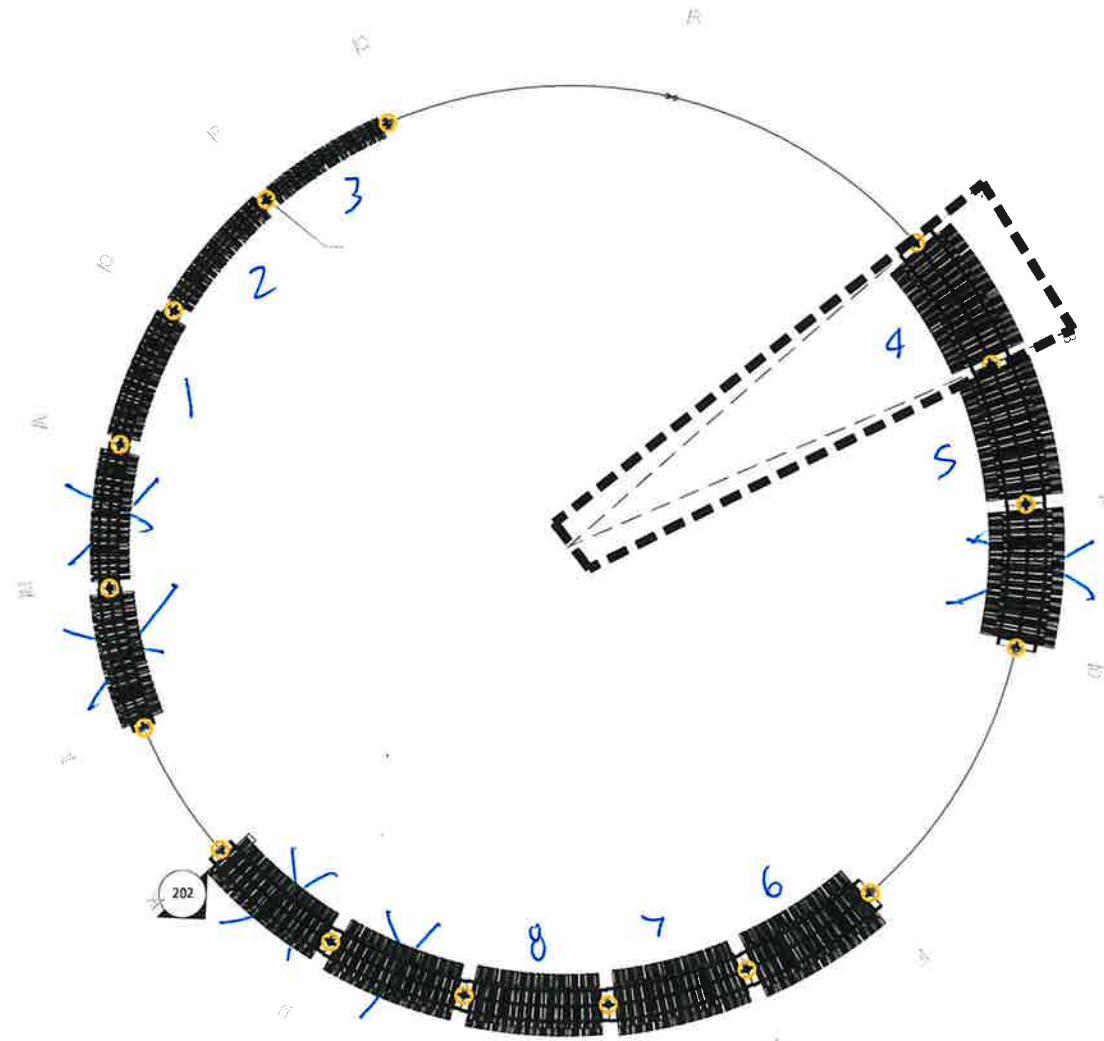
S101



ROOF FRAMING PLAN - STEEL CANOPY
1/4" = 1'-0"

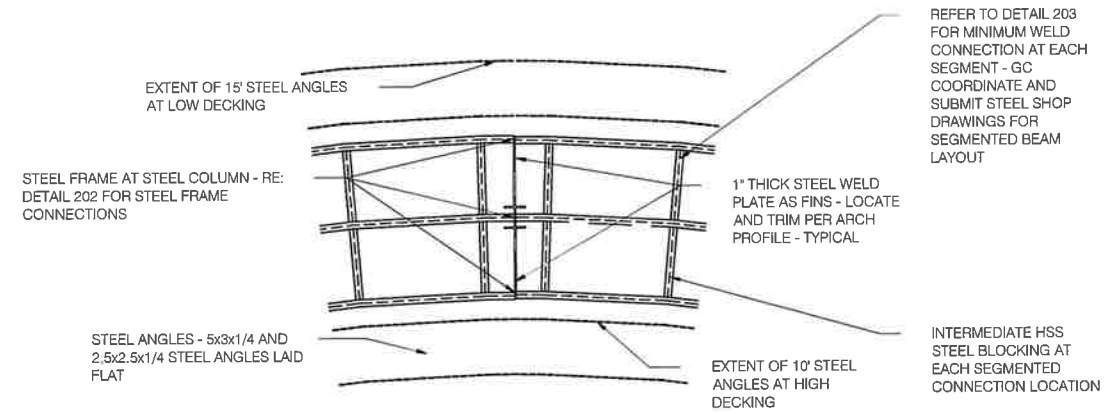


FOUNDATION PLAN - STEEL CANOPY
1/4" = 1'-0"

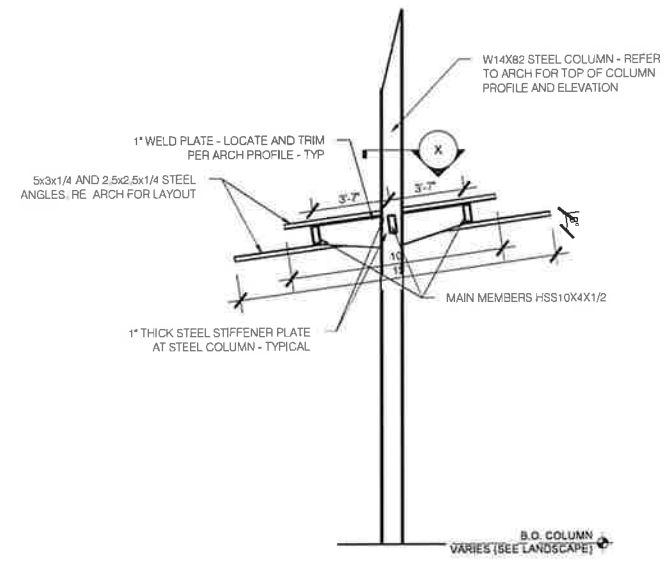


OVERALL PLAN VIEW - STEEL CANOPIES
1/16" = 1'-0"

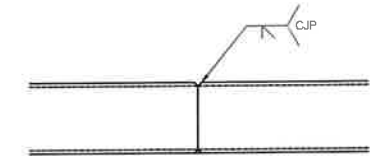
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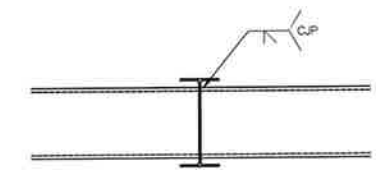
201 PLAN - STEEL FRAME BEAMS AT STEEL COLUMN
NTS



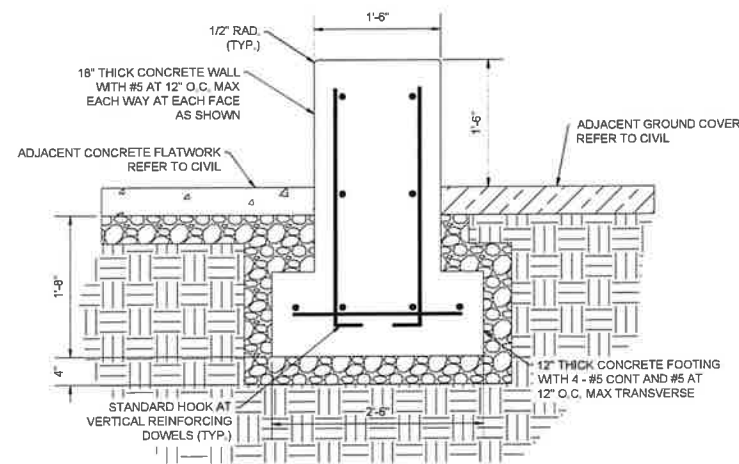
202 ELEVATION - STEEL PLATE AT STEEL COLUMN
NTS



203 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS



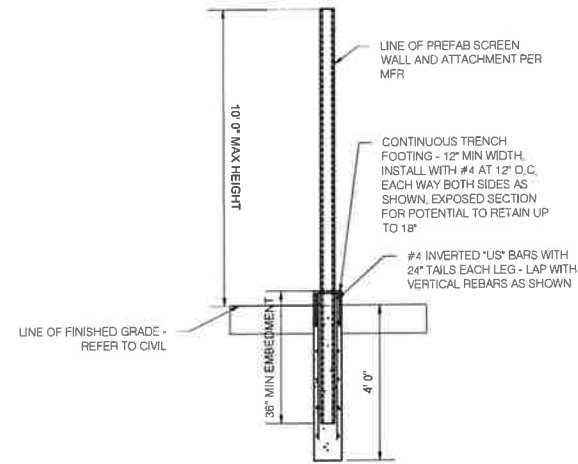
X-X SECTION X-X
NTS



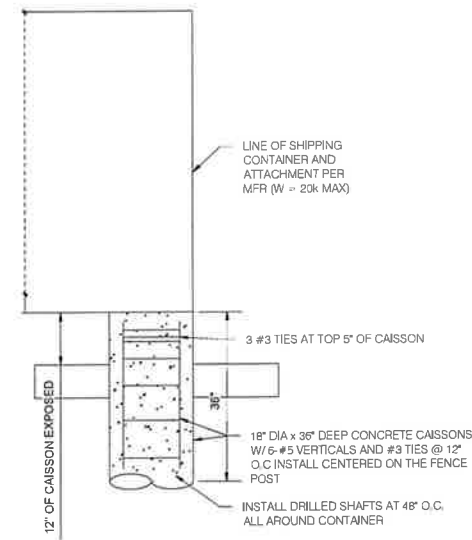
105 SEAT WALL
NTS

REFER TO CIVIL DRAWINGS
FOR LOCATION AND
PLACEMENT OF SCREEN
WALL

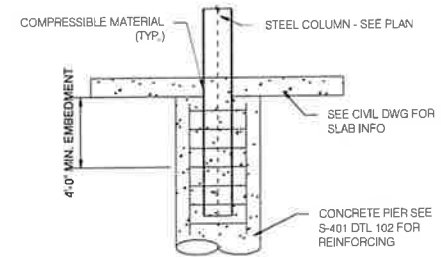
REFER TO CIVIL DRAWINGS
FOR LOCATION AND
PLACEMENT OF SHIPPING
CONTAINER



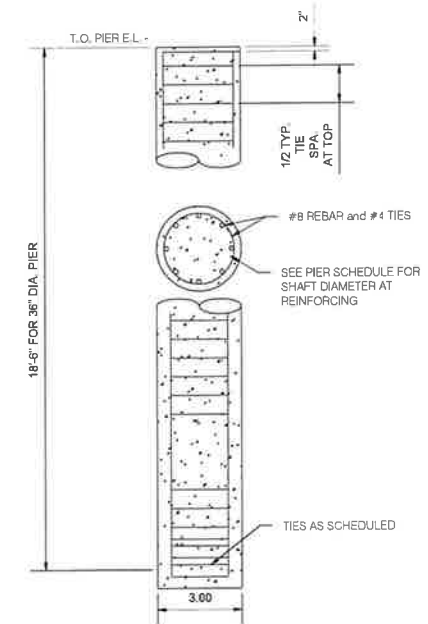
103 SCREEN WALL FENCE FOOTING
NTS



104 SHIPPING CONTAINER / RESTROOM FOUNDATION
NTS



101 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS



102 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS

Dig

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DIGRUGO.COM

Address: City, State, Zip
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E-mail: info@digrugo.com
Michael Baker INTERNATIONAL

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STRUCTURAL DETAILS

NO	DATE	BY	REVISION

CALL TWO WORKING DAYS
BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DRAWN: JL/PK
DESIGN: DJG
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DATE: 06.19.2023
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