

STRUCTURAL DESIGN CRITERIA

BUILDING CODE	2018 IBC
DESIGN DEAD LOAD	ACTUAL WEIGHT OF STRUCTURE
ROOF LIVE LOAD	20 PSF
<u>ROOF SNOW LOAD</u>	
1. GROUND SNOW LOAD	$P_g = 5$ PSF
2. SNOW EXPOSURE FACTOR	1.0
3. SNOW LOAD IMPORTANCE FACTOR	1.0
4. THERMAL FACTOR	1.2
5. FLAT ROOF SNOW LOAD	$P_f = 9.2$ PSF

WIND DESIGN DATA

1. BASIC WIND SPEED	107 MPH (3 SECOND GUST)
2. WIND IMPORTANCE FACTOR	N/A
3. RISK CATEGORY	II
4. WIND EXPOSURE CATEGORY	C

EARTHQUAKE DESIGN DATA

1. SEISMIC IMPORTANCE FACTOR	I = 1.0
2. MAPPED SPECTRAL RESPONSE ACCELERATIONS	$S_D = 0.225$ $S_1 = 0.085$
3. SITE CLASS	$S_DS = 0.240$ $S_1 = 0.136$
4. SPECTRAL RESPONSE COEFFICIENTS	C
5. SEISMIC DESIGN CATEGORY	CANTILEVERED COLUMNS
6. BASIC SEISMIC FORCE SYSTEM	V = 10,600 LBS
7. DESIGN BASE SHEAR	$C_D = 0.192$
8. SEISMIC RESPONSE COEFFICIENT	R = 1.25
9. RESPONSE MODIFICATION FACTOR	EQUIVALENT LATERAL FORCE
10. ANALYSIS PROCEDURE	

FOUNDATION DESIGN DATA

1. ALLOWABLE BEARING PRESSURE----- 2000 PSF
2. LATERAL BEARING PRESSURE ----- 166 PSF/FT
3. GEOTECHNICAL REPORT PREPARER ----- CONTOUR ENGINEERING
4. GEOTECHNICAL REPORT NUMBER ----- G23RAC03
5. GEOTECHNICAL REPORT DATE ----- MARCH 14, 2023

MATERIAL SPECIFICATIONS

1. STRUCTURAL STEEL WIDE FLANGE	ASTM A992
2. STRUCTURAL STEEL PLATES	ASTM A36 (U.N.O)
3. CHANNELS LESS THAN 6" DEEP	ASTM A36
ALL OTHER CHANNELS	ASTM A572, GR. 50
4. ANGLES LESS THAN 1.3x3x1/4	ASTM A36
ALL OTHER ANGLES	ASTM A572, GR. 50
5. HOLLOW STRUCTURAL SECTIONS	ASTM A500, GR. C
6. 3" METAL DECK	ASTM A653, GR. 50
7. WELDING ELECTRODE STRENGTH	E-70XX
8. ANCHOR BOLTS	ASTM F1554, GR. 36
9. STRUCTURAL BOLTS	ASTM A307 GR. A (U.N.O)
10. STRUCTURAL NUTS	ASTM A563A, HEAVY HEX (U.N.O)
11. STRUCTURAL WASHERS	ASTM F436 (U.N.O)
12. 28 DAY CONCRETE COMP. STRENGTH	f _c = 3500 PSI
13. CONCRETE REINFORCING STEEL	ASTM A706, GR. 60 DEF. BARS

U.N.O. - UNLESS NOTED OTHERWISE (REFER TO DRAWINGS)

ABREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	N.B.M	NOT BY MADISON
@	AT	N.S.	NEAR SIDE
B	BUILDING LINE	NEO	NEOPRENE
C	CENTER LINE	O/C	ON CENTER
C/C	CENTER TO CENTER	O/O	OUT TO OUT
CLR	CLEAR	R	PLATE
DIA.	DIAMETER	SQ.	SQUARE
EA.	EACH	T.O.I.	TOP OF ISLAND
ELEV.	ELEVATION	TYP.	TYPICAL
F.S.	FAR SIDE	UG	UNDERGROUND
FTG.	FOOTING	V	VENT
G.C.	GENERAL CONTRACTOR	W.A.	WHITE ACRYLIC
GA.	GAUGE		
GALV.	GALVANIZED		
HX.HD.	HEX HEAD SCREW		

GENERAL NOTES

1. STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-04, STRUCTURAL WELDING CODE-STEEL, PUBLISHED BY THE AMERICAN WELDING SOCIETY.
2. ANY FIELD WELDING SHALL REQUIRE SPECIAL INSPECTION. WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOBSITE DURING TIMES OF INSPECTION.
3. ALL STRUCTURAL BOLTED CONNECTIONS SHALL BE ASTM GRADE A-307 BOLTS AS NOTED ON DRAWINGS AND SHALL BE MADE "SNUG-TIGHT" ONLY AS DEFINED BY ANSI/AISC 360-05. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR THESE CONDITIONS. WASHERS ARE NOT REQUIRED UNLESS HOLES ARE OVSIZED OR SLOTTED.

RACETRAC #1635
54'-0" X 127'-8"
(8) COLUMN CANOPY

2670 LAKE OCONEE PARKWAY
GREENSBORO, GA 30642

MADISON SCOPE OF WORK

MADISON TO FURNISH, DELIVER, AND INSTALL ONE (1) 54'-0" X 127'-8" RACETRAC CANOPY, TO INCLUDE:

DESIGN:

1. CANOPY SHALL BE DESIGNED FOR A 16'-0" CLEAR HEIGHT.
2. MADISON SHALL BE RESPONSIBLE FOR DESIGN OF CANOPY FOOTINGS AND CANOPY STRUCTURE.
3. CONTRACTOR TO FURNISH REQUIRED SOLS REPORT, GRADING PLAN, AND OTHER PERTINENT INFORMATION.
4. MADISON TO FURNISH ONE (1) PDF SET OF PRELIMINARY DRAWINGS FOR CUSTOMER REVIEW AND COMMENT.
5. MADISON TO FURNISH SIGNED AND SEALED SETS OF DRAWINGS AND SUPPORTING CALCULATIONS AS NEEDED FOR PERMIT SUBMITTAL.
6. MADISON SHALL MAKE ANY APPLICABLE PLAN CHECK CORRECTIONS AND PRODUCE REVISIONED DRAWINGS AND CALCULATIONS FOR SUBMITTAL.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAWING SUBMITTAL TO THE LOCAL JURISDICTION AND ALL APPLICABLE FEES.

MATERIALS:

1. MADISON TO FURNISH ANCHOR BOLTS AND ACM TEMPLATES FOR CONTRACTOR INSTALLATION.
2. ALL STRUCTURAL STEEL WILL BE FURNISHED WITH ONE (1) COAT OF SHOP APPLIED GREY PRIMER.
3. DECKING SHALL BE PRE-FINISHED WHITE WITH AN EMBOSSED FINISH. DECK RIBS SHALL BE 3" TALL AND 16" O/C.
4. GUTTER SHALL BE .032 PRE-FINISHED WHITE ALUMINUM WITH AN EMBOSSED FINISH.
5. SLOPPERS WITH OVERFLOWS FOR WATER DRAINAGE.
6. FASCIA BRACKETS AND REQUIRED FLASHING SHALL BE GALVANIZED.
7. RACETRAC SHALL BE A TALLER RACETRAC PROGRAM RED ACM WITH BLUE AND WHITE VINYL FASCIA DECALS.
8. FOUR (4) 1 1/4" ELECTRICAL COLUMNS IN CUSTOMER DESIGNATED COLUMNS SHALL BE RIGID GALVANIZED PIPE WITH SEAL-OFFS AND ACCESS PLATES LOCATED AT 48" ABOVE FINISHED GRADE.
9. MADISON TO FURNISH ALL FASTENERS AND SEALANT ASSOCIATED WITH ITS SCOPE OF WORK.
10. ALL FIELD APPLIED FINISH COATINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SITE READINESS:

1. JOBSITE MUST BE CLEAR OF ANY CONSTRUCTION DEBRIS, TRENCHING, OR OTHER OBSTACLES PREVENTING ACCESS TO THE CANOPY AREA. IF CONDITIONS OR SCHEDULE REQUIRE SPECIALIZED EQUIPMENT OR ADDITIONAL LABOR HOURS TO WORK AROUND INADEQUATE CONDITIONS, COST INCURRED WILL BE BILLED TO THE CONTRACTOR AT COST +15%.
2. FOUNDATIONS AND ANCHOR BOLTS MUST BE SET IN ACCORDANCE WITH MADISON PRODUCED APPROVED FOUNDATION PLAN THAT IS DELIVERED WITH THE ANCHOR BOLTS.
3. CONTRACTOR SHALL PROVIDE NECESSARY SPACE FOR UNLOADING OF MATERIALS, AND COMMUNICATE ANY SPACE LIMITATIONS PRIOR TO DELIVERY.
4. CONTRACTOR SHALL PROVIDE PROGRESS PHOTOS AS EVIDENCE OF SITE READINESS PRIOR TO EACH MADISON MOBILIZATION.

INSTALLATION:

1. CONTRACTOR TO INSTALL MADISON FURNISHED ANCHOR BOLTS, UTILIZING TEMPLATES AND DRAWINGS PROVIDED. MADISON MUST BE NOTIFIED AT LEAST TWO (2) WEEKS IN ADVANCE PRIOR TO NEEDING THE ANCHOR BOLTS.
2. MADISON TO UNLOAD AND STAGE MATERIALS AS NEEDED.
3. MADISON TO SET AND ANCHOR STRUCTURAL STEEL COLUMNS AND ROOF FRAMING.
4. MADISON TO INSTALL ROOF DECK, OUTRIGGERS, PERMETER SOFFIT/GUARD, FASCO, FLASHING AND TRIMS AS REQUIRED.
5. MADISON TO CUT HOLES AND MOUNT CUSTOMER FURNISHED LED LIGHT FIXTURES PER PLAN.
6. CONTRACTOR TO FURNISH REQUIRED LABOR AND MATERIALS TO WIRE LIGHT FIXTURES.
7. MADISON TO DISPOSE OF RELATED CONSTRUCTION DEBRIS IN CONTRACTOR FURNISHED DUMPSITER.
8. CONTRACTOR TO MAKE FINAL DRAIN CONNECTIONS TO UNDERGROUND STORM SEWER.

EXCLUSIONS

1. PERMITS, PERMIT SUBMITTAL, LICENSE FEES.
2. SPECIAL INSPECTIONS.
3. UNION / PREVAILING WAGE REQUIREMENTS.
4. BUY AMERICAN ACT OR ANY OTHER RESTRICTIVE PURCHASING AGREEMENTS.
5. FINISH PAINT, FINISH COATINGS.
6. ELECTRICAL WORK / MATERIALS.
7. CONCRETE WORK / MATERIALS.
8. PACKING GROUT BETWEEN BEARING SURFACES AND BASE PLATES.
9. GALVANIZING OF STRUCTURAL STEEL.
10. PROCUREMENT OF CANOPY DOWN LIGHTING.
11. PROCUREMENT AND INSTALLATION OF CANOPY SIGNAGE INCLUDING ALL ELECTRICAL MATERIALS AND LABOR AS REQUIRED.
12. ILLUMINATED SIGNAGE, NEON AND LED.
13. FASCIA DECALS OTHER THAN THOSE LISTED IN THE ABOVE SCOPE OF WORK.
14. COLUMN SHROUDS (BRICK OR OTHER).
15. ANY ITEMS NOT SPECIFICALLY IDENTIFIED IN THIS EXHIBIT.
16. ANY ITEMS SPECIFIED AS BEING PERFORMED BY OTHERS OR BY CONTRACTOR IN THIS EXHIBIT.

SCHEDULE OF DRAWINGS

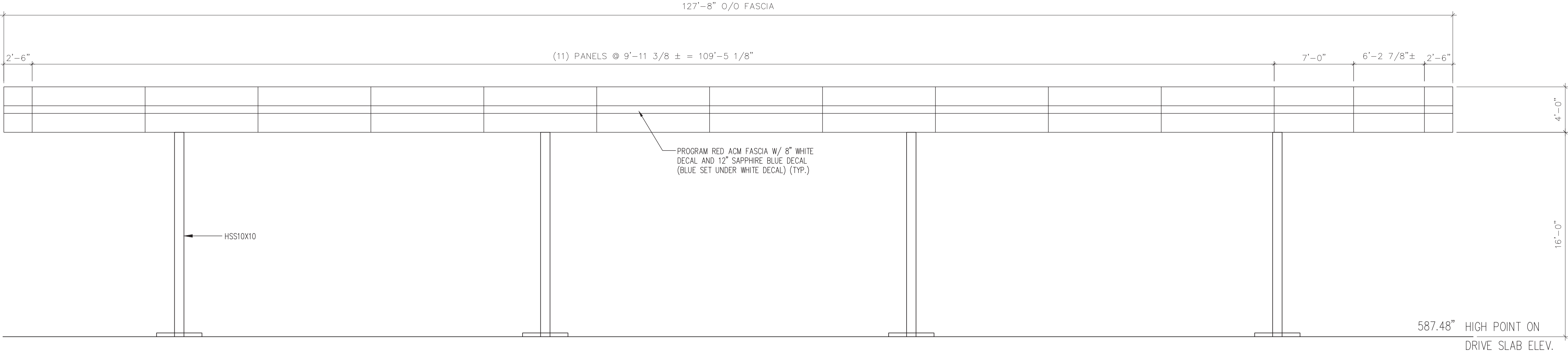
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SCHEDULE OF REVISIONS

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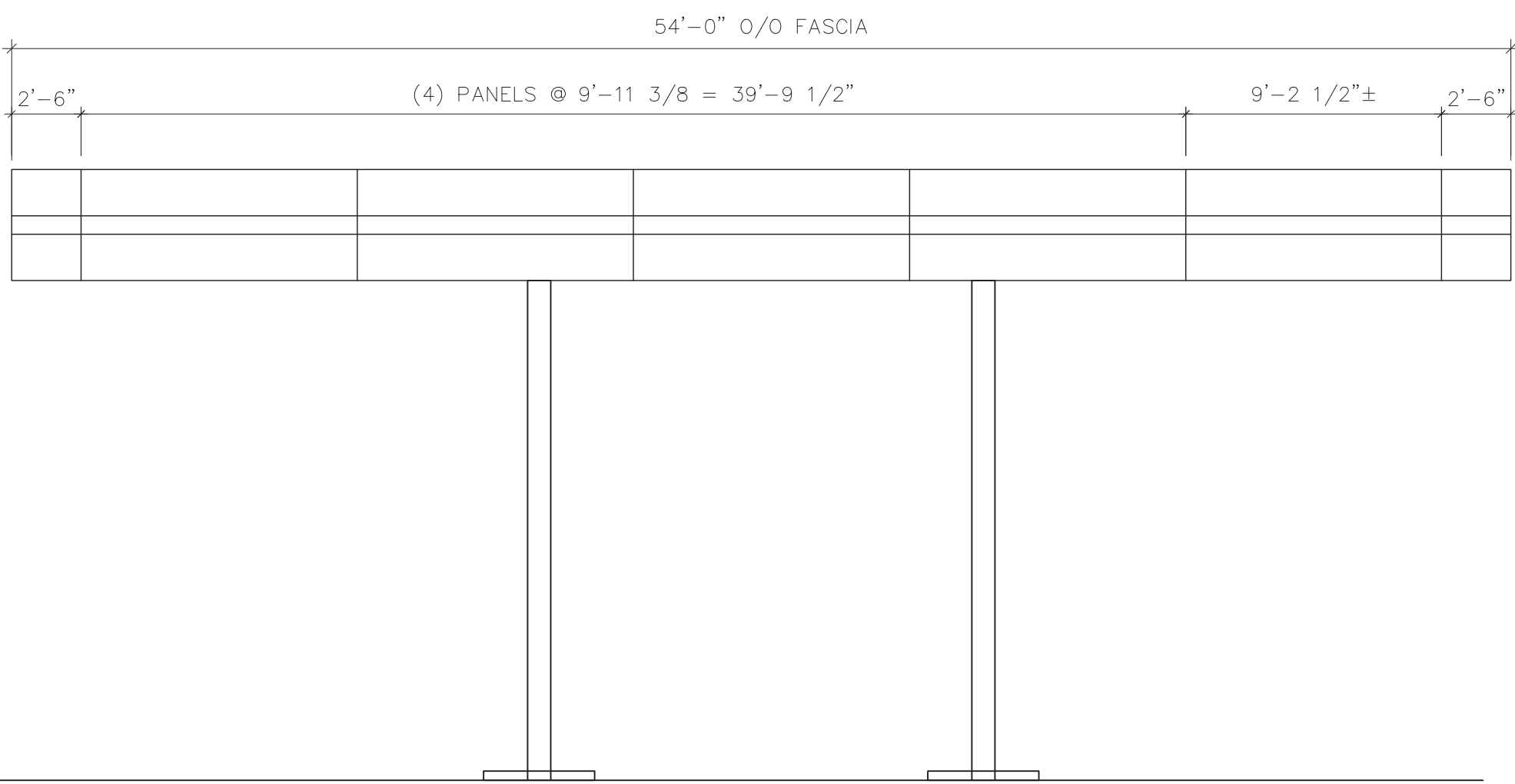
PROJECT	REV.	DATE	BY
MADISON INDUSTRIES MADISONIND.COM			
RACETRAC #1635			
54'-0" x 127'-8"			
EIGHT (8) COLUMN CAR CANOPY			
COVER PAGE			
LOCATION			
2670 LAKE OCEANE PARKWAY GREENSBORO, GA 30642			
CALIFORNIA 17151 Darwin Avenue Hesperia, CA 92345 Sue 211 Sally 204 562.484.5099	GEORGIA 1035 Irla Drive Corysberg, GA 30694 770.483.4401		
			
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PROFESSIONAL ENGINEER			
MODEL No.			
SCALE			
DRAWN BY	DATE		
WSP	7/7/2023		
CHECKED BY	DATE		
DD	7/11/2023		
MI ENGINEER	DATE		
JFB	7/5/2023		
DRWG. No.			
CS-1			
SHEET	OF		
1	5		
JOB No.			
WGA09819-1			

PROJECT		RACETRAC #1635 54'-0" X 127'-8" EIGHT (8) COLUMN CAR CANOPY FOUNDATION PLAN AND DETAILS		REV.	DATE	BY
LOCATION		2670 LAKE OCNEE PARKWAY GREENSBORO, GA 30642				
MADISON INDUSTRIES MADISONIND.COM CORPORATE OFFICE 2801 W. 1st Blvd. Hesperia, CA 92345 Suite 211 952.484.5099 Santa Ana, CA 92704 952.484.5098 GEORGIA 1770 Peachtree Conyers, GA 30094 770.483.4401						
						
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PROFESSIONAL ENGINEER						
MODEL No.						
SCALE						
AS NOTED						
DRAWN BY		DATE				
WSP		7/7/2023				
CHECKED BY		DATE				
DD		7/11/2023				
MI ENGINEER		DATE				
JFB		7/5/2023				
DRAWG. No.						
F-1						
SHEET		OF				
2		5				
JOB NO.						
WGA09819-1						



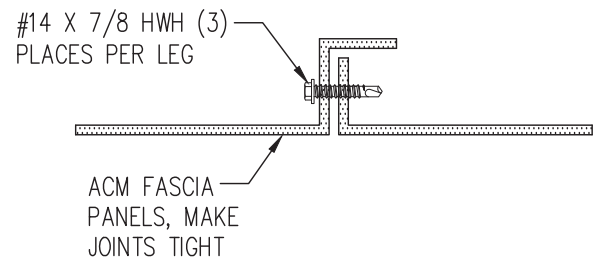
ELEVATION
SCALE: 3/16" = 1'-0"

A
A-1

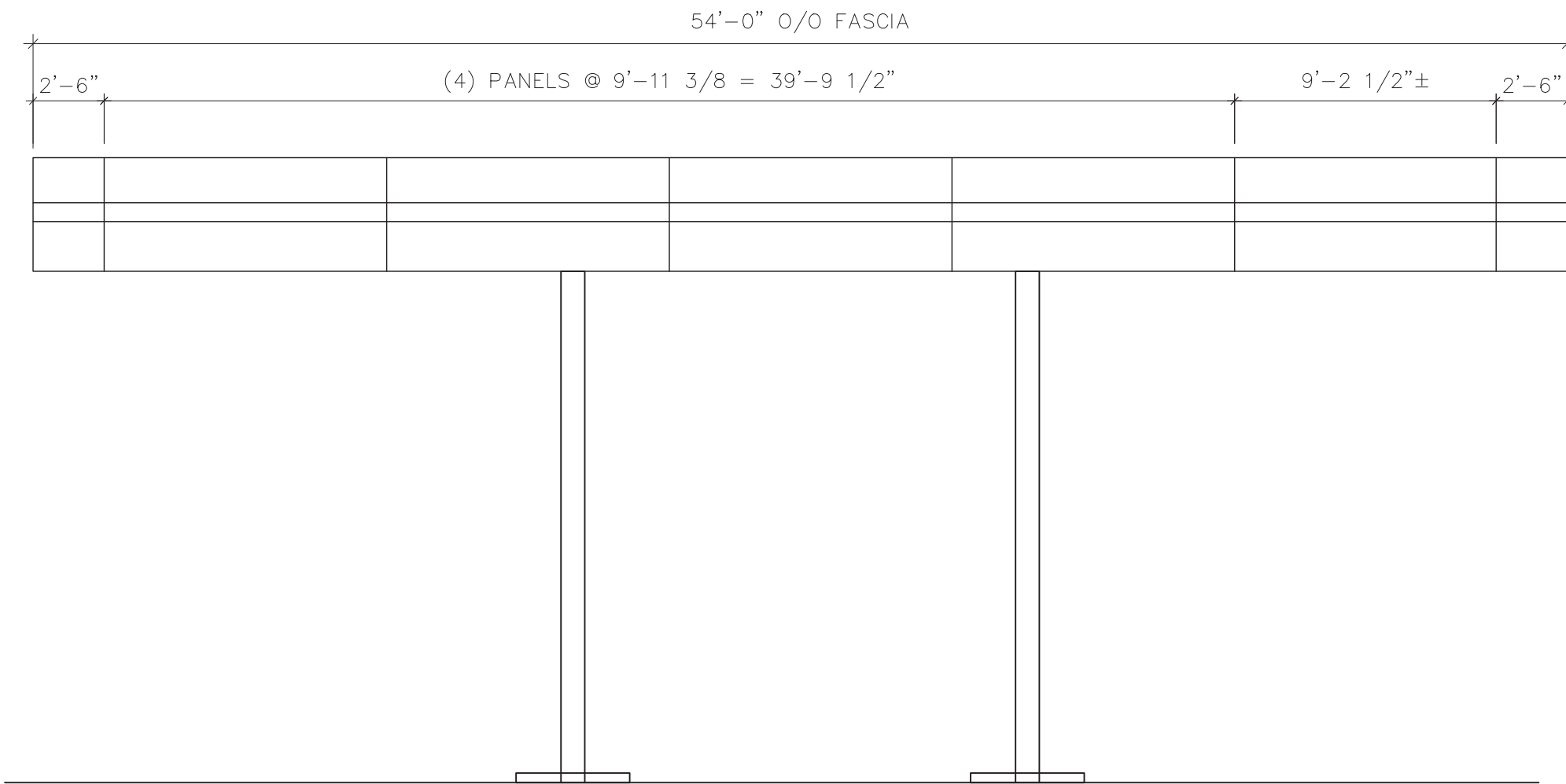


ELEVATION
SCALE: 3/16" = 1'-0"

B
A-1

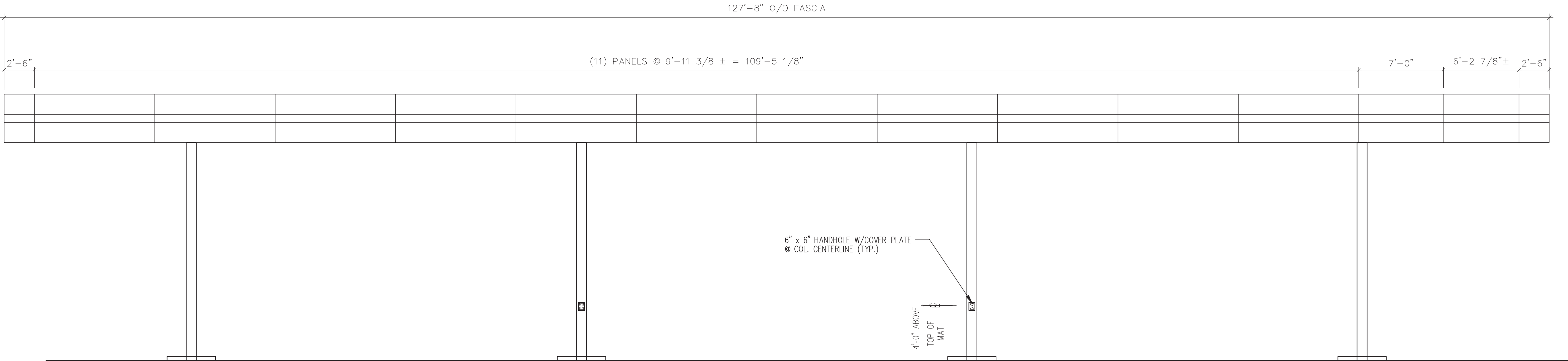


TYP. FASCIA JOINT DETAIL



ELEVATION
SCALE: 3/16" = 1'-0"

D
A-1



ELEVATION
SCALE: 3/16" = 1'-0"

C
A-1

REV.	DATE	DESCRIPTION	BY

PROJECT	RACETRAC #1635
LOCATION	54'-0" x 127'-8" EIGHT (8) COLUMN CAR CANOPY ELEVATIONS 2670 LAKE OCONEE PARKWAY GREENSBORO, GA 30642

MADISON INDUSTRIES	GEORGIA
MADISONIND.COM	1035 Iles Drive
CORPORATE OFFICE	Conyers, GA 30094
2861 W. MacArthur Blvd.	770.483.4401
Suite 211	
San Jose, CA 95128	
562.484.5099	

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PROFESSIONAL ENGINEER	
MODEL No.	
SCALE	
AS NOTED	
DRAWN BY	DATE
WSP	7/7/2023
CHECKED BY	DATE
DD	7/11/2023
MI ENGINEER	DATE
JFB	7/5/2023
DRWG. No.	A-2
SHEET	OF
4	5
JOB No.	WGA09819-1

