CAPTAIN'S VIP DECK 3724 SPEC SHEET

The Event Deck is a mobile platform engineered for rapid deployment for live events, concerts, festivals, and public gatherings. Designed for durability, safety, and transport efficiency, the system is compliant with structural engineering standards and life safety requirements.

When fully deployed, the unit expands to 45 feet in length and 24 feet in width, providing approximately 888 square feet of usable staging or event space suitable for production equipment, audience viewing platforms, DJ booths, or performance areas.

During transport, the structure folds into a compact configuration measuring 35 feet long, 102 inches wide, and 10 feet 6 inches high. This transport configuration allows the unit to be legally moved on standard U.S. roadways without requiring special oversize width permits.

The platform is supported by a reinforced structural steel or aluminum frame, engineered to withstand distributed event loads while maintaining stability through integrated outriggers and leveling supports. The deck surface utilizes weather-resistant, non-slip panels designed for outdoor performance environments.

The system supports guardrails, stair systems, ADA access points, and safety barriers, making it adaptable for concerts, festivals, community events, and professional event production applications.



View one



View two

Specifications

- **14,000 lbs GVWR Trailer**
- **10,500 lbs Total Operating Weight**
- **2,000 lbs Tongue Weight**
- **DOT Highway Approved**
- **IBC, FBC & NFPA Compliant**
- **Sealed Structural System**

- **Push-Button Hydraulic Operation**
- **Adjustable Leveling Jacks**
- **Meets Life Safety Codes**
- **U.S. Patent #US12084881 B1**
- **Maximum Capacity: _____**

DIMENSIONAL CHARACTERISTICS
(Based on plans S101–S103, S201–S203)

- Multi-bay deck layout with central structural spine
- Symmetrical platform expansion left and right
- Integrated stair towers (front + side access)
- Guardrail-protected perimeter on all elevated levels
- **Typical Layout Includes:**
- Main deck platform
- Side access stairs
- Upper viewing deck
- Landing platforms
- Guardrail system throughout

GENERAL NOTES:

This is to certify that to the best of my knowledge and belief, these plans conform with International Building Code 2020 with all supplements and additions.

Brace all structural elements during construction to prevent damage from wind, water, and earth pressures and from construction loads, until all supporting walls and decks are in place. Where rework or removal of existing structure is required, it is the responsibility of the general contractor to submit a shoring plan showing all bracing and supports required. This plan shall be signed and sealed by a registered structural engineer in the state of Florida. No work shall be performed until this plan is submitted and approved by the engineer of record.

See building, mechanical, electrical and plumbing drawings for exact location and arrangement of any pads, support frames, etc. Required for mechanical, electrical, and/or plumbing equipment. General contractor shall coordinate with other trades concerning plates, anchors, notches, sleeves, inserts, etc. to be placed in concrete.

Any conflict between structural drawings and mechanical, electrical, and plumbing drawings and/or specifications shall be brought to the attention of the architect prior to proceeding with work affected.

No field revisions to any structural components shall be made without prior approval of the architect. This includes, but is not limited to, revisions due to mislocation, misfit, or any other construction errors.

Owner to retain testing lab to perform field inspections of welds and welded connections.

Site shall be left in as-is condition. Any removal or damage to existing facilities shall be replaced or repaired.

It is the responsibility of the general contractor to verify all existing dimensions and elevations.

APPLICABLE CODES & STANDARDS:

International Building Code 2020

NFPA 101 (2018 Edition)

American Institute of Steel Construction

American Welding Institute

Metal Deck Institute

ASCE 7-16

GUARDRAIL SYSTEM:

Concentrated load at 200# top of rail in any direction or uniform load of 50#/LF horizontal.

All guardrails are a minimum of 42" above floor.

All handrail between 34" and 38" as measured at nose of tread, consistent throughout run.

All fencing capable of rejecting a 4" sphere.

ALUMINUM:

All aluminum structural components are 6061-T6 extruded aluminum mill finish.

All planking and riser boards is 6063-T6 extruded aluminum, mill finish.

All components are welded using minimum 3/16" weld.

Minimum plate or angle is 3/16".

All bolted connections use hot dipped galvanized bolt, washer, nut assemble min. size 3/8" diameter.

STRUCTURAL STEEL:

All structural steel shall conform to ASTM A572 having a minimum yield stress of 50 ksi except for the following materials: roof purlins, grirts, sag rods, base plates, miscellaneous plates, and miscellaneous channels. These shall conform to ASTM A36.

All pipe shall conform to ASTM A53 – Grade B, F = 35 ksi.

All tube shall conform to ASTM A500, Fy = 46 ksi.

All anchor bolts shall conform to ASTM A36.

Design, fabrication, and erection of structural steel shall be in accord with AISC “Specification for the Design, Fabrication and Erection of Structural Steel for Buildings” and AISC Code of Standard Practice.

All connections shall be designed and fabricated in accordance with AISC “Manual of Steel Construction” (Ninth Edition).

All bolts shall be ASTM A325-N bolts except those at moment connections, which will be A325-F.

Bolts to be tightened using “turn-of-the-nut”. Pneumatic impact wrenches shall be used for tightening.

Welding shall be in accordance with AWS D1.1–75. All welding electrodes to be E70XX.

All steel to be coated as required after fabrication.

All steel erection welds to be inspected using ultrasonic testing.

Splicing of structural steel members shall not be permitted without prior approval of the structural engineer.

All steel surfaces to be properly cleaned and prepared prior to coating.

All steel below grade to receive a field coat of asphaltic paint.

Grout for base plates shall be non-shrink grout or approved equal.

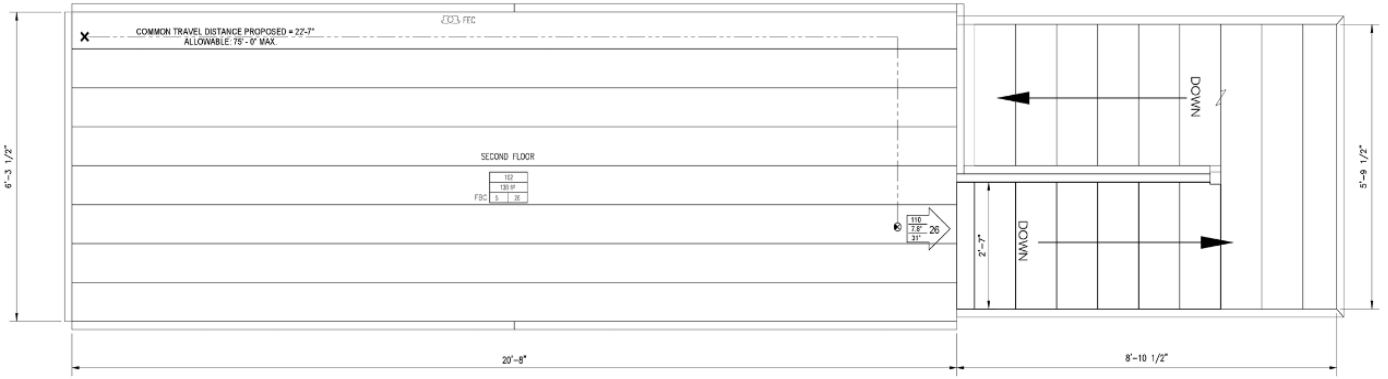
All beams that require shoring are to be properly shored prior to placement of concrete.

Responsibility for errors of detailing, fabrication, and/or erection of all structural steel members is assigned to the contractor.

Shop drawings shall indicate all structural steel components, connections, and details.

All work shall be subject to inspection by the structural engineer.

For More Information Contact Us
Mobile Stages Miami
23750 SW 132nd Ave,
Princeton, FL 33032
(786) 504-2369
https://mobilestages.miami



1 LIFE SAFETY SECOND FLOOR PLAN

Scale: 3/4" = 1'-0"

OCCUPANT LOAD TABLE

NOTE: CURRENT USE AND EXISTING OCCUPANCY LOAD WILL NOT CHANGE

DESCRIPTION	CLASSIFICATION	AREA (sq. ft.)	OLF (sq. ft. per person)	OCCUPANT LOAD
FIRST FLOOR	UNCONCENTRATED	290	5 NET	58
SECOND FLOOR	UNCONCENTRATED	130	5 NET	26
TOTAL FLOOR AREA		420		
TOTAL LEVEL 01 POPULATION				84

LIFE SAFETY REQUIREMENTS

APPLICABLE CODES: FLORIDA BUILDING CODE, 2020 FLORIDA BUILDING CODE ACCESSIBILITY, 2020 FLORIDA FIRE PREVENTION CODE, 7TH EDITION NFPA 101, LIFE SAFETY CODE, 2020

CONSTRUCTION TYPE: EXISTING

LIFE SAFETY – MEANS OF EGRESS / EXITS –NFPA 101

FBC SECTION 1004.5
WITH UNCONCENTRATED (TABLE AND CHAIRS)

MAXIMUM COMMON PATH OF TRAVEL ALLOWABLE IS 100' (98'-0" MAX. PROPOSED)

DEAD END ALLOWABLE IS 50' MAX. (NO DEAD END)

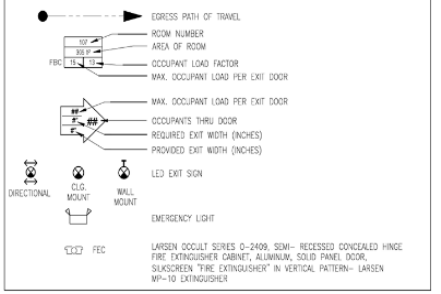
PER FBC, CHAPTER 10 MEANS OF EGRESS / 1006.2.1

REQUIRED MEANS OF EGRESS : 26 OCCUPANTS & LESS THAN 75' TRAVEL DISTANCE
1 EXITS REQUIRED (1 PROVIDED)

MIN. CLEAR OPENING @ EGRESS DOOR: 32 INCHES (EXISTING DOOR IS 36 INCHES)

DISTANCE TO FIRE EXTINGUISHERS: 75' – 0" MAX. PER FBC TABLE 906.3(1)

LIFE SAFETY LEGEND



GRAPHIC SCALE

0 6" 1' 2'

SCALE: ¾" = 1'-0"

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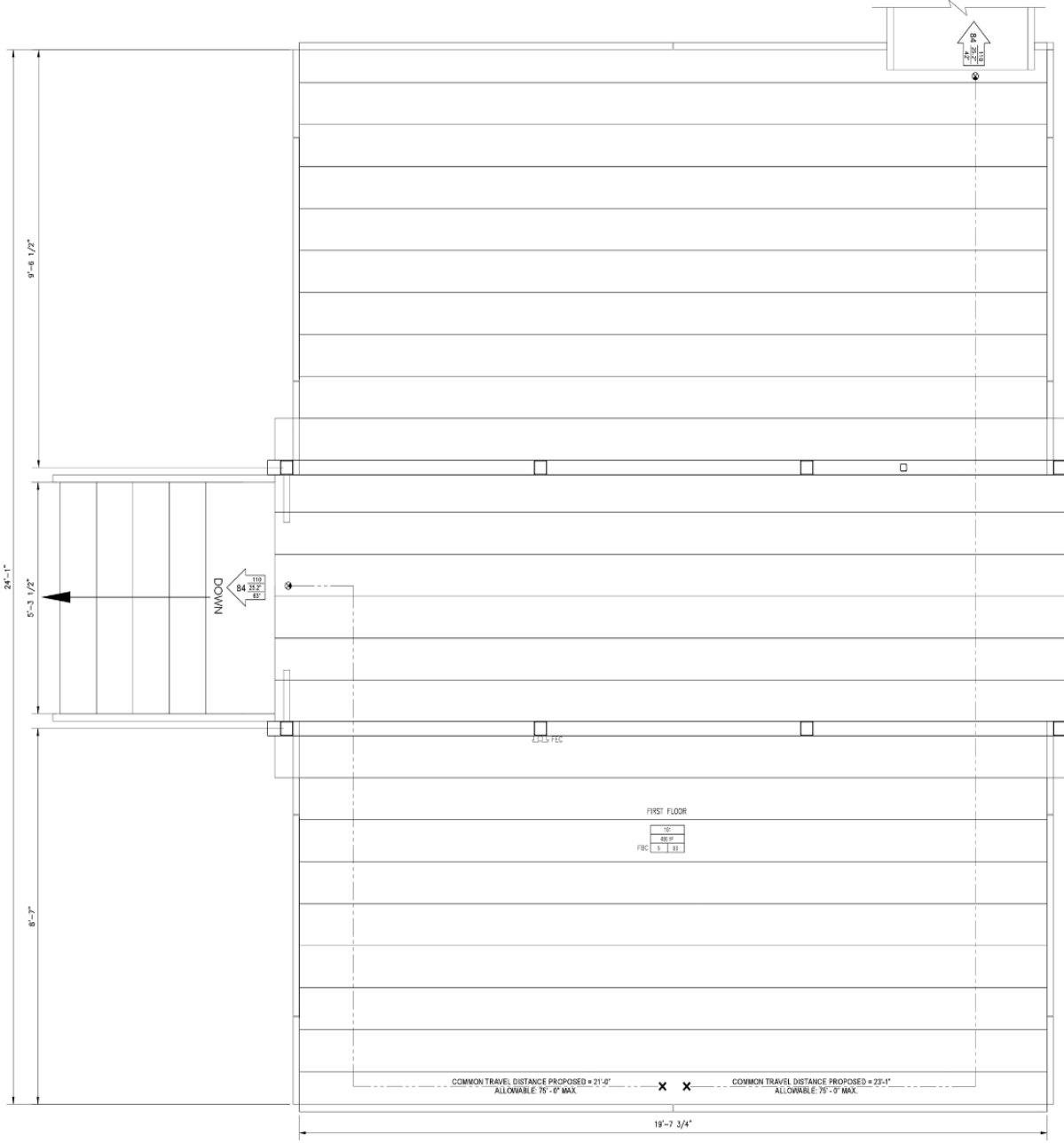
UNIQUE ENGINEERING SOLUTIONS LLC
FQ2570
2252 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-5443

DELTA	REVISIONS	DATE	BY

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SHEET TITLE: LIFE SAFETY SECOND FLR. PLAN
PROJECT NAME: RENTAL BLEACHERS INC.
PREPARED FOR: BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	323-017
SHEET NUMBER	LS102
SHEET REVISION	
SHEET SIZE	D



LIFE SAFETY LEGEND

- EGRESS PATH OF TRAVEL
- ROOM NUMBER
- AREA OF ROOM
- OCCUPANT LOAD FACTOR
- MAX. OCCUPANT LOAD PER EXIT DOOR
- MAX. OCCUPANT LOAD PER EXIT DOOR
- OCCUPANTS THRU DOOR
- REQUIRED EXIT WIDTH (INCHES)
- PROVIDED EXIT WIDTH (INCHES)
- DIRECTIONAL
- CLG. MOUNT
- WALL MOUNT
- LED EXIT SIGN
- EMERGENCY LIGHT
- FEC — LARSEN OCCULT SERIES 0-2409, SEMI- RECESSED CONCEALED HINGE FIRE EXTINGUISHER CABINET, ALUMINUM, SOLID PANEL DOOR, SILKSCREEN "FIRE EXTINGUISHER" IN VERTICAL PATTERN- LARSEN MP-10 EXTINGUISHER

OCCUPANT LOAD TABLE

NOTE: CURRENT USE AND EXISTING OCCUPANCY LOAD WILL NOT CHANGE

DESCRIPTION	CLASSIFICATION	AREA (sq. ft.)	OLF (sq. ft. per person)	OCCUPANT LOAD
FIRST FLOOR	UNCONCENTRATED	480	5 NET	96
SECOND FLOOR	UNCONCENTRATED	130	5 NET	26
TOTAL FLOOR AREA		610		
TOTAL LEVEL 01 POPULATION				122

LIFE SAFETY REQUIREMENTS

APPLICABLE CODES: FLORIDA BUILDING CODE, 2020 FLORIDA BUILDING CODE ACCESSIBILITY, 2020 FLORIDA FIRE PREVENTION CODE, 7TH EDITION NFPA 101, LIFE SAFETY CODE, 2020

CONSTRUCTION TYPE: EXISTING

LIFE SAFETY – MEANS OF EGRESS / EXITS – NFPA 101

FBC SECTION 1004.5
WITH UNCONCENTRATED (TABLE AND CHAIRS)

MAXIMUM COMMON PATH OF TRAVEL ALLOWABLE IS 100' (58'-0" MAX. PROPOSED)

DEAD END ALLOWABLE IS 50' MAX. (NO DEAD END)

PER FBC, CHAPTER 10 MEANS OF EGRESS / 1006.2.1

REQUIRED MEANS OF EGRESS : 84 OCCUPANTS & LESS THAN 75' TRAVEL DISTANCE
2 EXITS REQUIRED (2 PROVIDED)

MIN. CLEAR OPENING @ EGRESS DOOR: 32 INCHES (EXISTING DOOR IS 36 INCHES)

DISTANCE TO FIRE EXTINGUISHERS: 75' – 0" MAX. PER FBC TABLE 906.3(1)

1 LIFE SAFETY FIRST FLOOR PLAN
Scale: 3/4" = 1'-0"

UNIQUE ENGINEERING SOLUTIONS LLC
F-22570
9252 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-8443

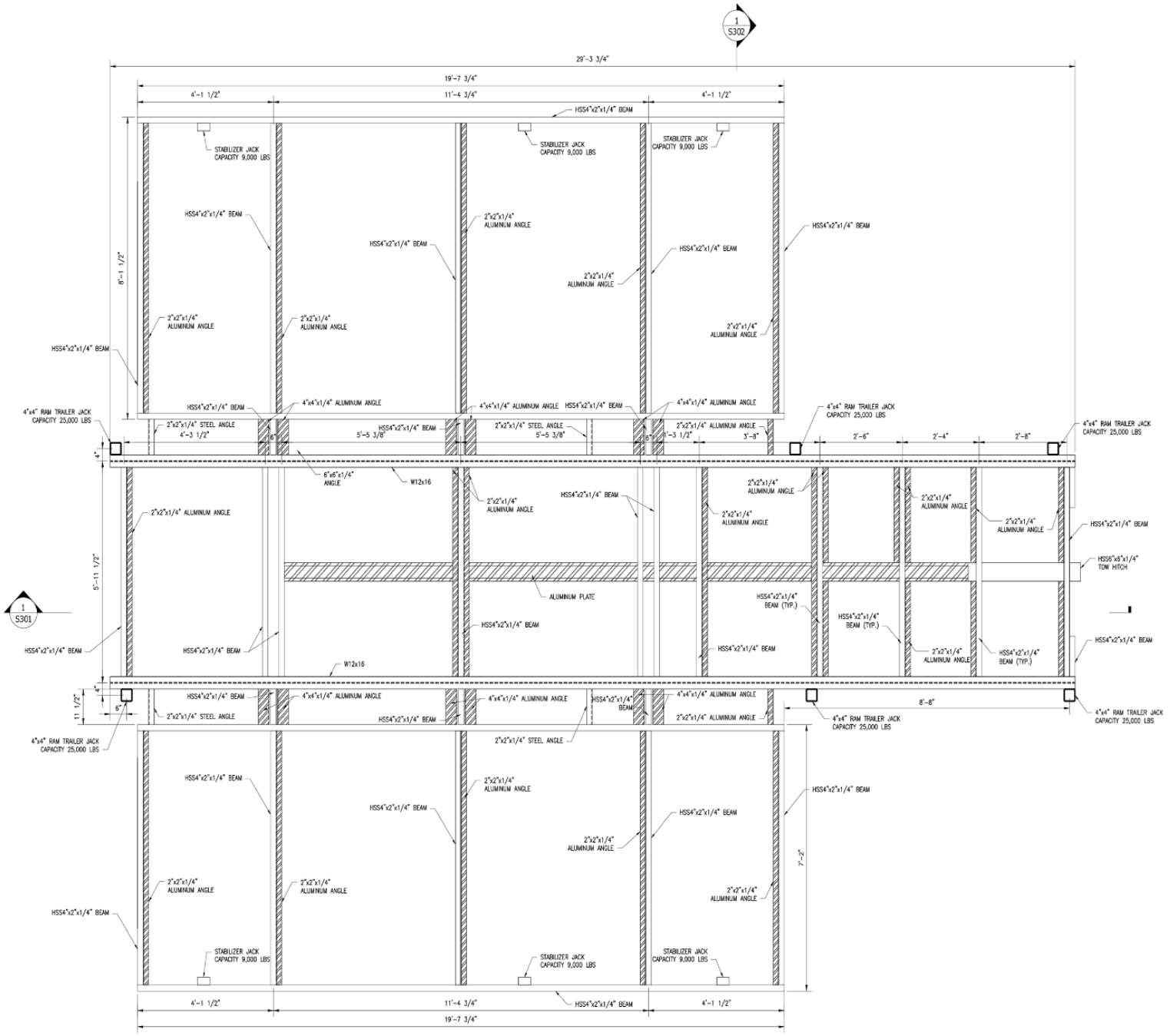
DELTA	REVISIONS	DATE	BY

ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
A.D. HALL TX# 140912

SHEET TITLE: LIFE SAFETY FIRST FLR. PLAN
PROJECT NAME: RENTAL BLEACHERS INC.
PREPARED FOR: BAHA/WEX MANUFACTURING

DRAWN: DS
CHECKED: ADH
DATE: 1-12-2023
SCALE: AS SHOWN
JOB NO.: 333-017
SHEET NUMBER: LS101
SHEET REVISION
SHEET SIZE: D

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1 DECK FRAMING PLAN

Scale: 3/4" = 1'-0"

UNIQUE ENGINEERING SOLUTIONS LLC
F-22570
9552 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-8443

DELTA	REVISIONS	DATE	BY

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

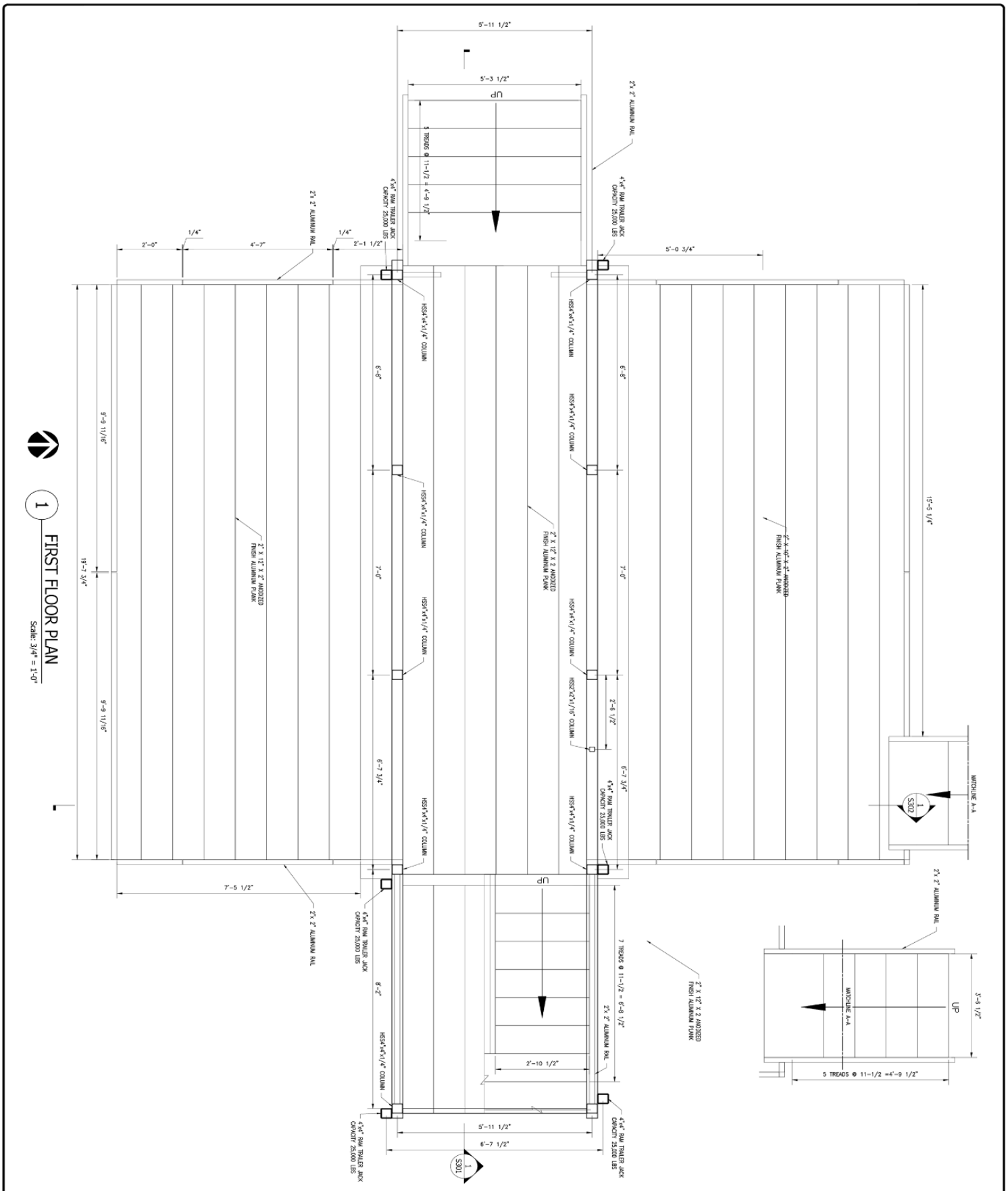
SHEET TITLE: DECK FRAMING PLAN

PROJECT NAME: RENTAL BLEACHERS INC.

PREPARED FOR: BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	223-017
SHEET NUMBER	S101
SHEET REVISION	
SHEET SIZE	D

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1 FIRST FLOOR PLAN

Scale: 3/4" = 1'-0"

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SCALE	AS SHOWN
JOB NO.	233017
SHEET NUMBER	S102
SHEET REVISION	
SHEET SIZE	D

SHEET TITLE
FIRST FLOOR PLAN

PROJECT NAME
RENTAL BLEACHERS INC.

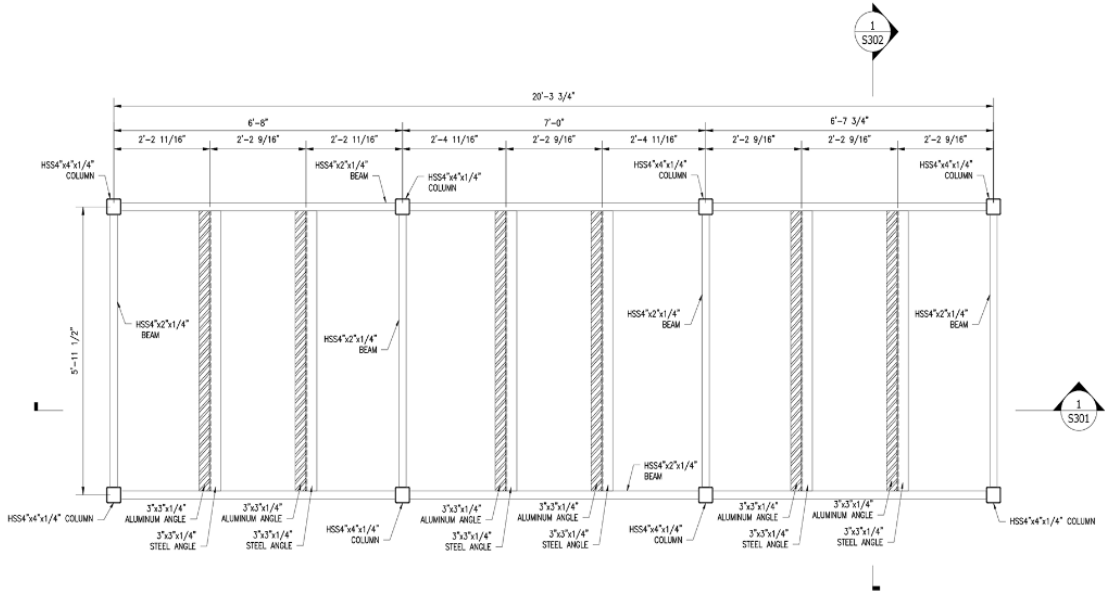
PREPARED FOR
BAHA/WEX MANUFACTURING

ANDREW D. HALL 140912 STATE OF TEXAS PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

DELTA	REVISIONS	DATE	BY

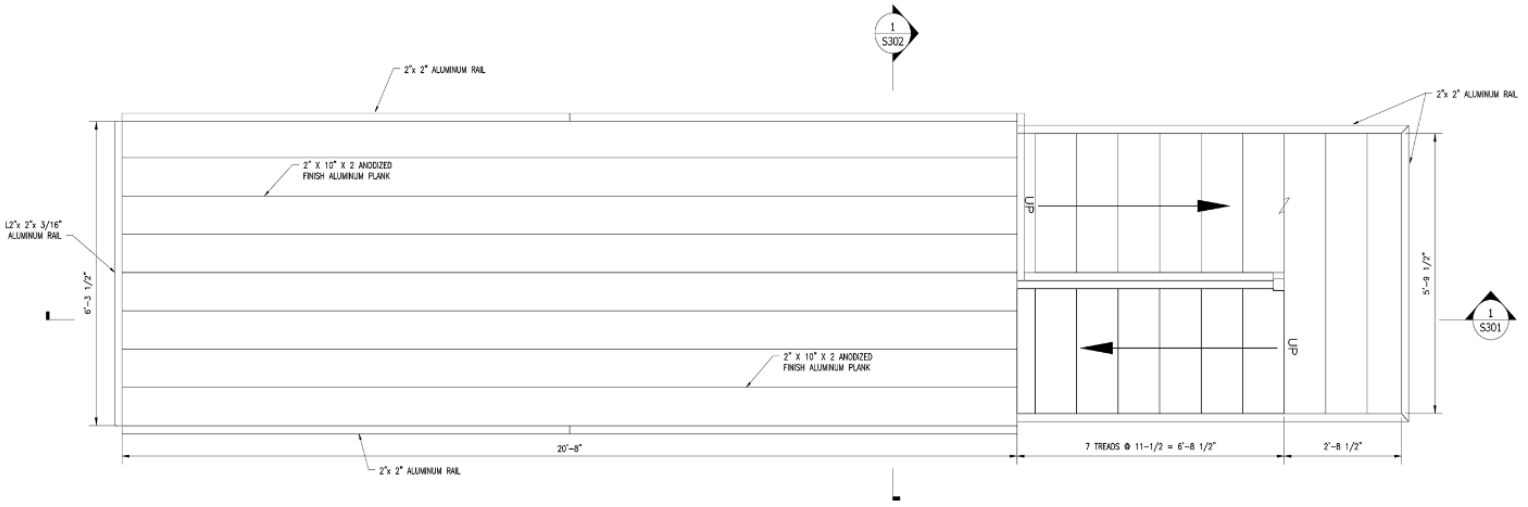
STRUCTURAL ENGINEERING CONSULTANTS, LLC
P.O. BOX 2370
WACO, TEXAS 76703
PH. (512) 243-6400

SMC



1 ROOF FRAMING PLAN

Scale: 3/4" = 1'-0"



2 SECOND FLOOR PLAN

Scale: 3/4" = 1'-0"

UNIQUE ENGINEERING SOLUTIONS LLC
F-12257D
3253 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-6443

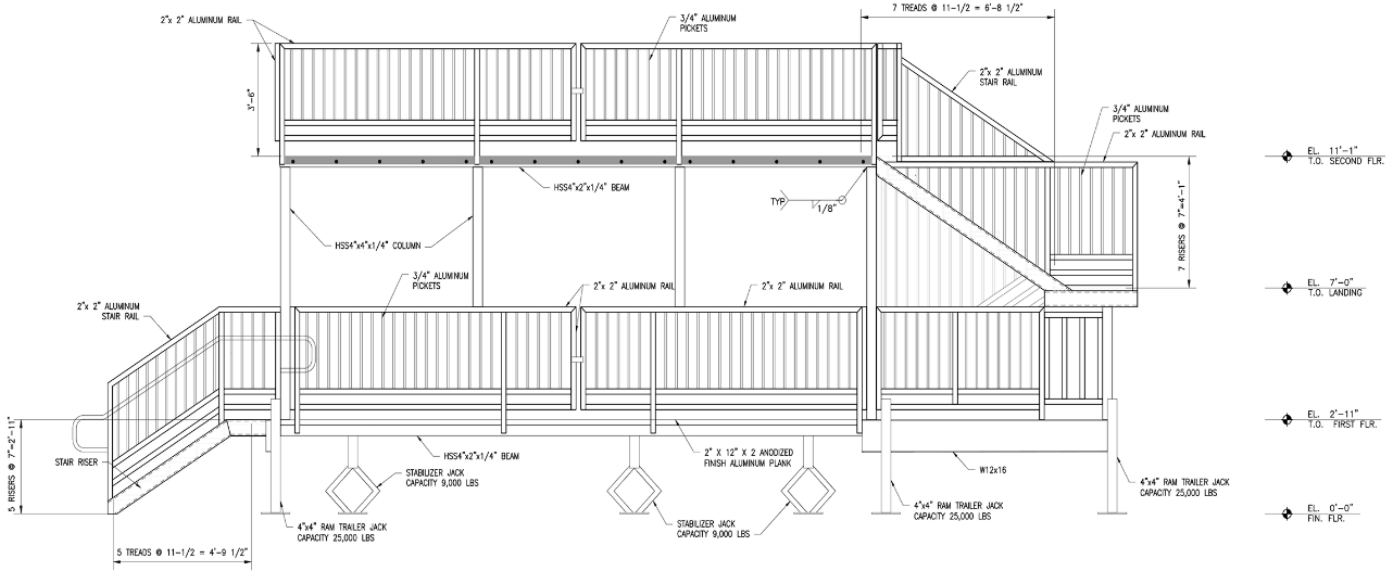
DELTA	REVISIONS	DATE	BY

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SHEET TITLE
SECOND FLOOL PLAN
PROJECT NAME
RENTAL BLEACHERS INC.
PREPARED FOR
BAHA/WEX MANUFACTURING

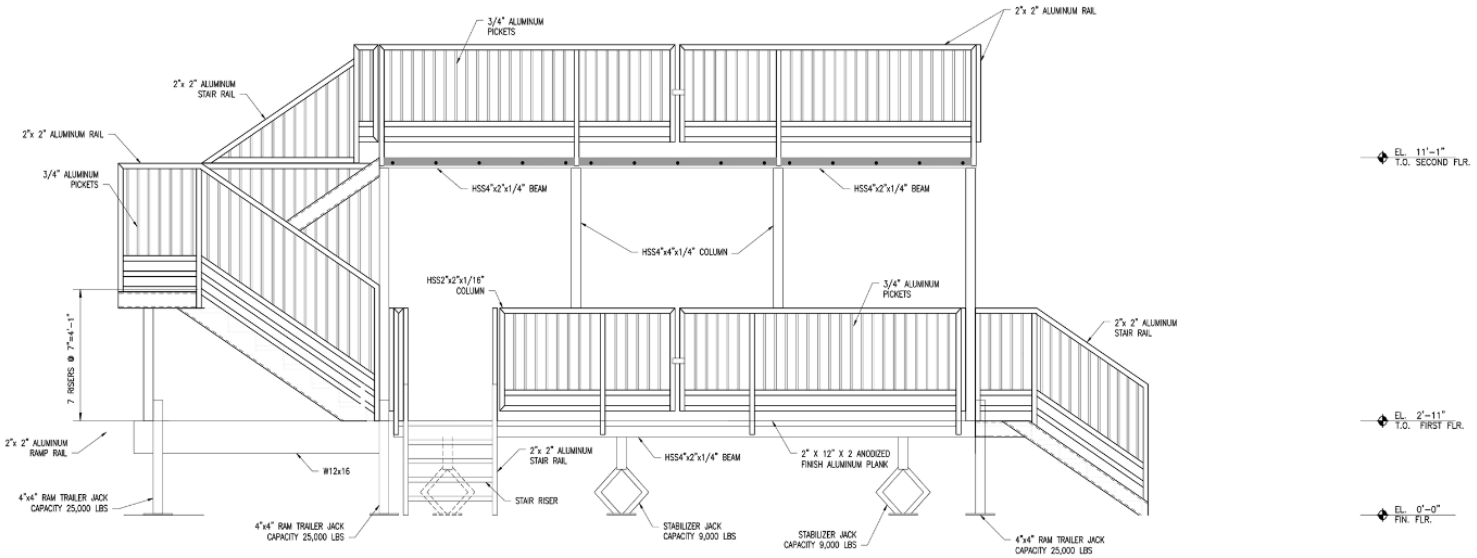
DRAWN	CS
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DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	323-017
SHEET NUMBER	S103
SHEET REVISION	
SHEET SIZE	D

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1 NORTH ELEVATION

Scale: 1/2" = 1'-0"



2 SOUTH ELEVATION

Scale: 1/2" = 1'-0"

UNIQUE ENGINEERING SOLUTIONS LLC
F-12570
3253 COMMERCIAL WAY
SPRING HILL FL, 34606
PH: (352) 345-6443

DELTA	REVISIONS	DATE	BY

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

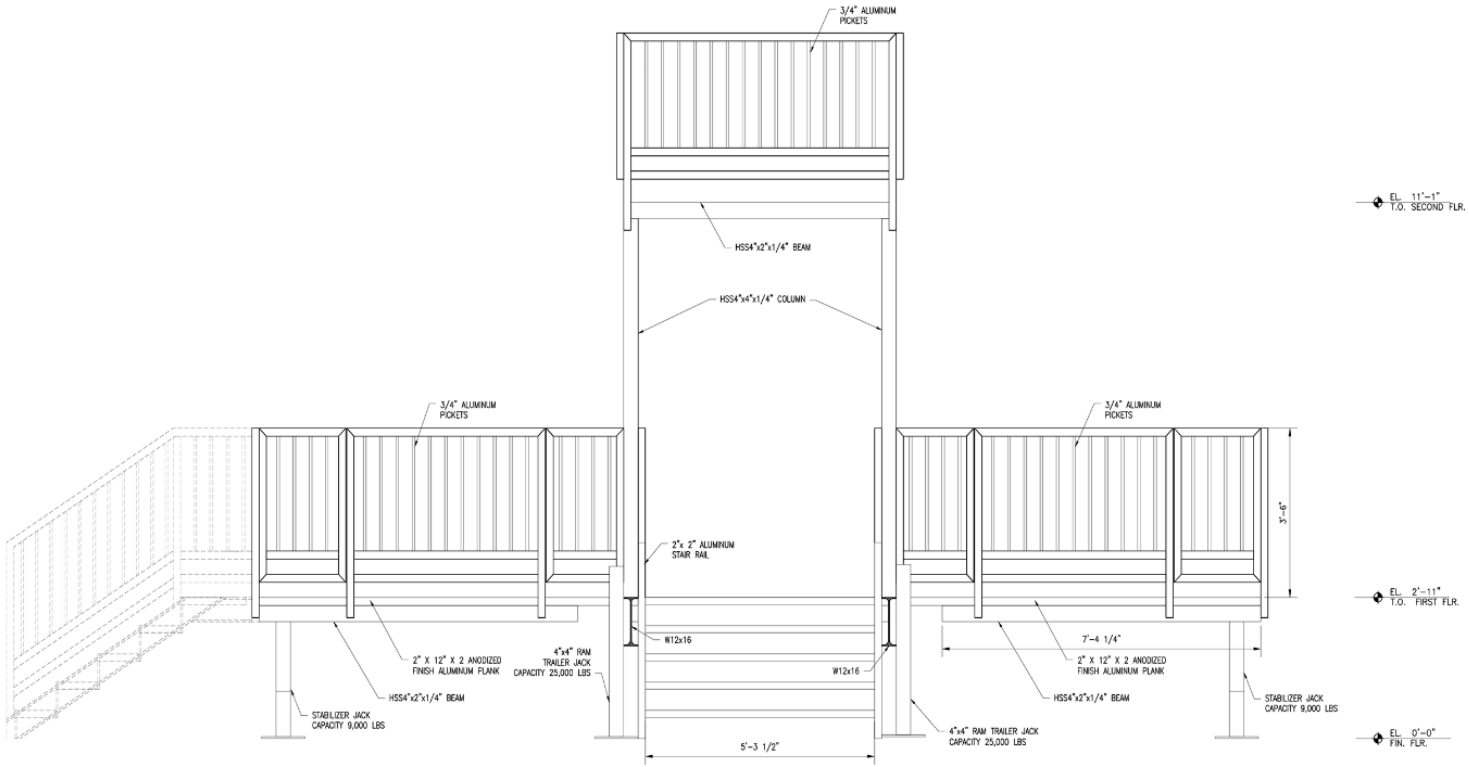
SHEET TITLE: ELEVATIONS

PROJECT NAME: RENTAL BLEACHERS INC.

PREPARED FOR: BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	23-017
SHEET NUMBER	S201
SHEET REVISION	
SHEET SIZE	D

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1 WEST ELEVATION

Scale: 1/2" = 1'-0"

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2253 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-6443

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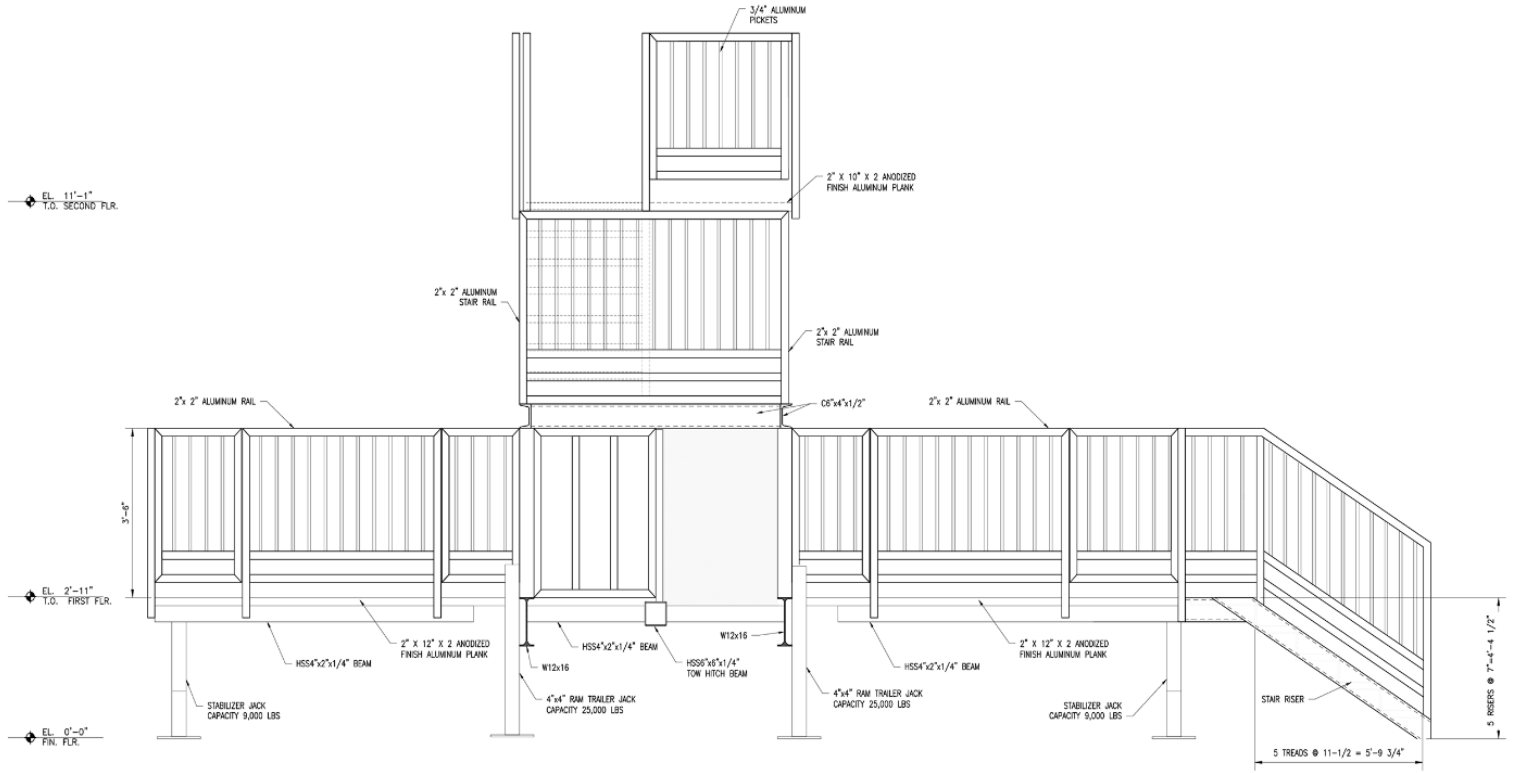
STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SHEET TITLE
WEST ELEVATIONS

PROJECT NAME
RENTAL BLEACHERS INC.

PREPARED FOR
BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	323-017
SHEET NUMBER	S202
SHEET REVISION	
SHEET SIZE	D



1 EAST ELEVATION

Scale: 1/2" = 1'-0"

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UNIQUE ENGINEERING SOLUTIONS LLC
F-12257
2253 COMMERCIAL WAY
SPRING HILL FL, 34606
PH: (352) 345-6443

DELTA	REVISIONS	DATE	BY

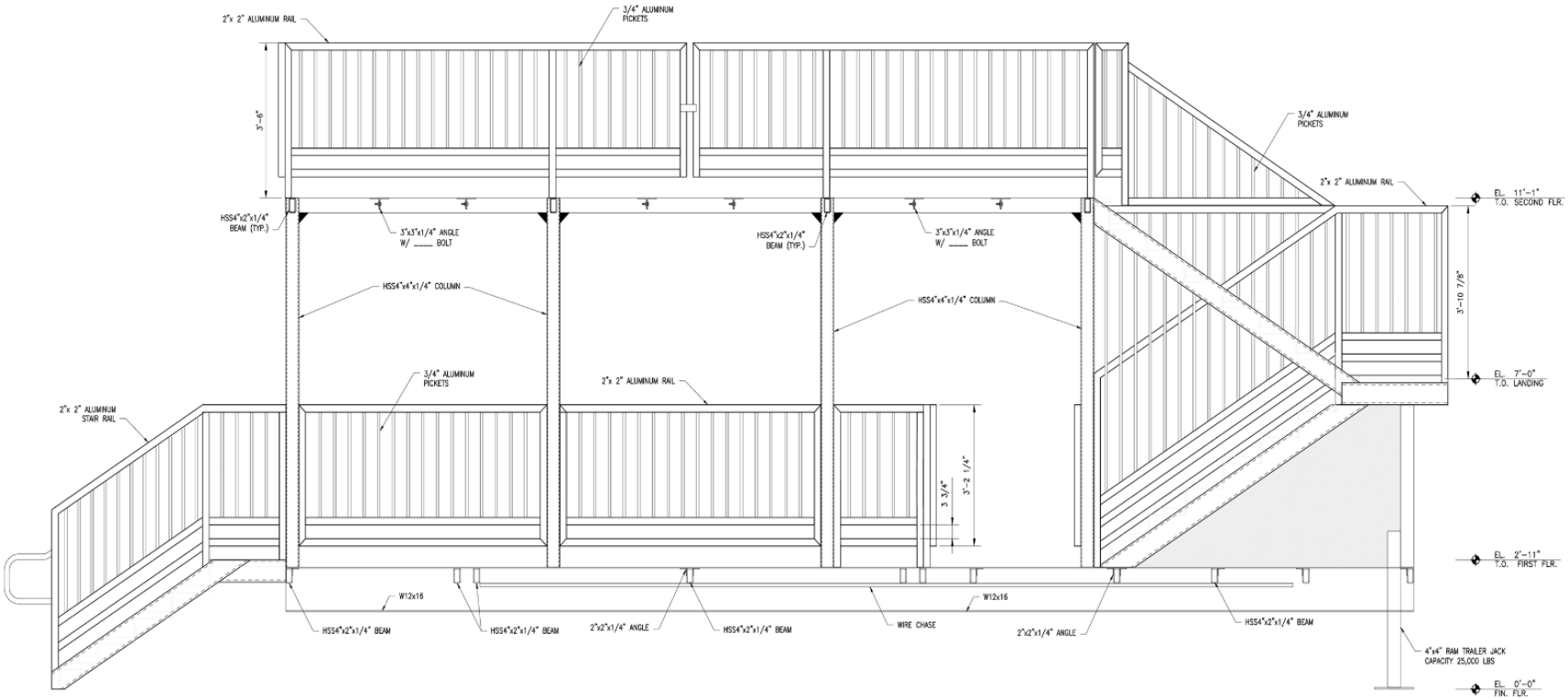
STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SHEET TITLE: EAST ELEVATIONS

PROJECT NAME: RENTAL BLEACHERS INC.

PREPARED FOR: BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	323-017
SHEET NUMBER	S203
SHEET REVISION	
SHEET SIZE	D



1 SECTION
Scale: 3/4" = 1'-0"

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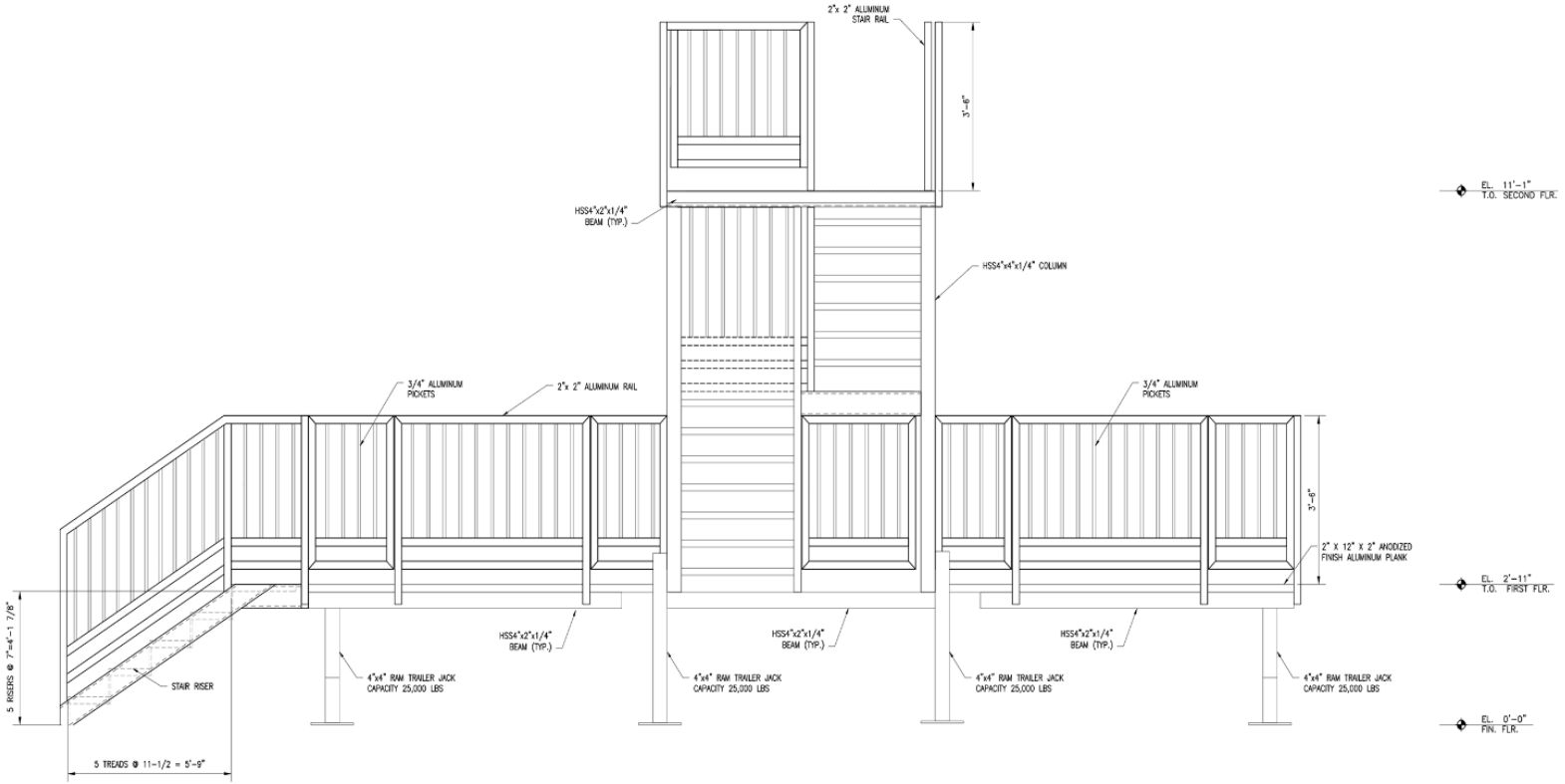
UNIQUE ENGINEERING SOLUTIONS LLC
F-22570
3252 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-6443

DELTA	REVISIONS	DATE	BY

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SUBMITTING
SECTIONS
PROJECT NAME
RENTAL BLEACHERS INC.
PREPARED FOR
BAHA/WEX MANUFACTURING

DRAWN	CS
CHECKED	ADH
DATE	1-12-2023
SCALE	AS SHOWN
JOB NO.	223-017
SHEET NUMBER	S301
SHEET REVISION	
SHEET SIZE	D



1 SECTION
Scale: 3/4" = 1'-0"

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UNIQUE ENGINEERING SOLUTIONS LLC
F-12570
3552 COMMERCIAL WAY
SPRING HILL FL, 34606
PH. (352) 345-6443

REVISIONS	DATE	BY
DELTA		

STATE OF TEXAS
ANDREW D. HALL
140912
LICENSED
PROFESSIONAL ENGINEER
A.D. HALL TX# 140912

SUBMITTING
SECTIONS
PROJECT NAME
RENTAL BLEACHERS INC.
PREPARED FOR
BAHA/WEX MANUFACTURING

DRAWN
DS
CHECKED
ADH
DATE
1-12-2023
SCALE
AS SHOWN
JOB NO.
223-017
SHEET NUMBER
S302
SHEET REVISION
SHEET SIZE D