

THE MYSTERIOUS CIRCUS

DRAWING LIST

- S100 STRUCTURAL GENERAL NOTES & HWAP
- S101 SEATING PLAN & GRANDSTAND DETAILS
- S102 BIG TOP PLAN & ELEVATIONS
- S103 MAST, CUPOLA, SIDE POLE, TRUSS, BAILEY RING DETAILS

CODE REFERENCE AND DESIGN CRITERIA
THE FOLLOWING CODES AND REFERENCES WERE USED FOR THIS PROJECT:

1. 2015 INTERNATIONAL FIRE CODE
2. 2004 ICC/ANSI AITC
3. ASCE 7-16, DESIGN LOADS FOR BUILDINGS AND STRUCTURES
4. ASCE 31-14, DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION
5. AISC MANUAL OF STEEL CONSTRUCTION (19TH ED. 2010)

DESIGN CRITERIA

FIXED SEATING LIVE LOAD = 60 PSF
STAGE FLOOR LIVE LOAD = 150 PSF
TECHNICIAN FLOOR LIVE LOAD = 50 PSF

HANDBRAILS 200 LB POINT LOAD ANY DIRECTION
STAIR TREAD 300 LBS CENTER SPAN OF TREAD

CONSTRUCTION TYPE II-B (UNPROTECTED NON-COMBUSTIBLE)

ROOF LIVE LOAD = 5 PSF

RAIN LOADS NOT CONSIDERED - TENT ROOFS ARE SLOPED AND FREE DRAINING

WIND LOADS - SEE HIGH WIND ACTION PLAN

SNOW LOADS - SEE SNOW MANAGEMENT PLAN

ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.

GENERAL STRUCTURAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES AND/OR INCONSISTENCIES WITH ANY OF THE WORK INVOLVED.

2. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE, UNLESS INDICATED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR METHOD OF CONSTRUCTION AND IS RESPONSIBLE FOR THE SAFETY OF WORKERS, AND PROTECTION OF EXISTING STRUCTURES.

3. IN THE EVENT OF DISCREPANCY BETWEEN ANY PROVISION OF THESE DOCUMENTS, DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.

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HIGH WIND ACTION PLAN

HIGH SPEED, ACTION TO BE TAKEN WHEN WIND SPEEDS ARE EITHER MEASURED ON-SITE, FORECAST WITH A DEGREE OF CERTAINTY OR EXPECTED TO EXCEED THE BELOW THRESHOLDS. SHOULD THE ACTION ITEMS BE UNABLE TO BE PERFORMED SAFELY AND IN A TIMELY FASHION AS DETERMINED BY THE PRODUCTION MANAGER, RIGGER, ENGINEER, VENUE, SITE COORDINATOR, TOUR MANAGEMENT, ETG, EVACUATE ALL STRUCTURES AT 40 MPH MEASURED/REPORTED WIND SPEED.				
30 MPH (20)	35 MPH (23)	40 MPH (27)	50 MPH (33)	55 MPH (37)
SECURE PUBLIC AREAS	HEAD OF TENT INFORMED, RESPONSIBLE CREW PUT ON ALERT	CLOSE BIG TOP ENTRANCE, TENT SIDE DOORS ON THE WIND SIDE	EVACUATE PUBLIC FROM STRUCTURE VIGINTY BY OPEN SIDE DOORS	EVACUATE ALL PERSONS FROM STRUCTURE VIGINTY
SECURE ALL LOOSE MATERIAL AROUND THE SITE, FENCES, GARBAGE CANS, ETC.	CLOSE WORKSHOPS AND SMALL TENTS	MONITOR ALL STRUCTURES	MONITOR ALL LACING ON THE WIND SIDE	
CLOSE TENT DOORS	MONITOR STRUCTURE ANCHOR POINTS	PREPARE RESPONSIBLE CREW FOR PUBLIC EVACUATION	SECURE ALL TENTS	

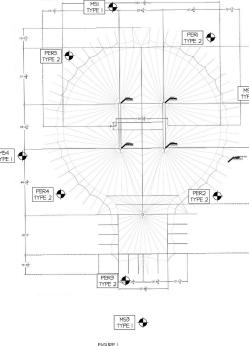
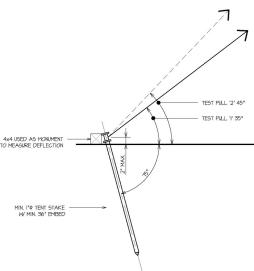
OPERATIONAL NOTES:
 1. AN ANEMOMETER IS TO BE INCLUDED AT THE HIGH POINT OF THE STRUCTURE TO MONITOR THE ON-SITE CONDITIONS.
 2. WEATHER REPORTS ARE TO BE MONITORED DURING THE BUDGETED LIFE OF THIS STRUCTURE.
 3. INSIDE STUFF MUST BE REMOVED AND STORED WITH THE THREAT OF SEVERE WEATHER (IE: TROPICAL STORM OR HURRICANE EVENT).
 4. STRUCTURES MAY BE BALLASTED FOR BASE PLANS.
 5. HIGH WINDS NOTED AND REPORTED AS A WIND REQUIREMENT ESTIMATED SUSTAINED WIND SPEEDS IN PARENTHESES.
 6. STRUCTURE HIGH WIND PLAN SHALL BE DEVELOPED INCORPORATING THE ABOVE ENVIRONMENTAL THRESHOLD ACTIONS AS WELL AS THE PARTIES RESPONSIBLE FOR MONITORING THE WEATHER, IMPLEMENTING THE HWAP, PERFORMING THE ACTION ITEMS, EVACUATION PROCEDURES, SAFETY ZONES, STANDOFF DISTANCES (WITHIN THE PROPERTY LINE), PLANS TO PREVENT WIND-BORN DEBRIS, AND VERIFICATION THAT THESE PROCEDURES DO NOT ADVERSELY IMPACT OTHER STRUCTURES.

TEST STAKES SHOULD BE DRIVEN IN EVERY DIFFERENT SOIL CONDITION (I.E. ASPHALT, GRASS, SAND, ETC.) OR NEAR ANY AREAS WHERE THE GROUND IS SUSPECTED TO BE SOFT. SEE PLAN FOR THE LOAD TEST POSITIONING AND DRAWINGS SHOWING THE DIFFERENT POSSIBLE TENTS CONFIGURATION.

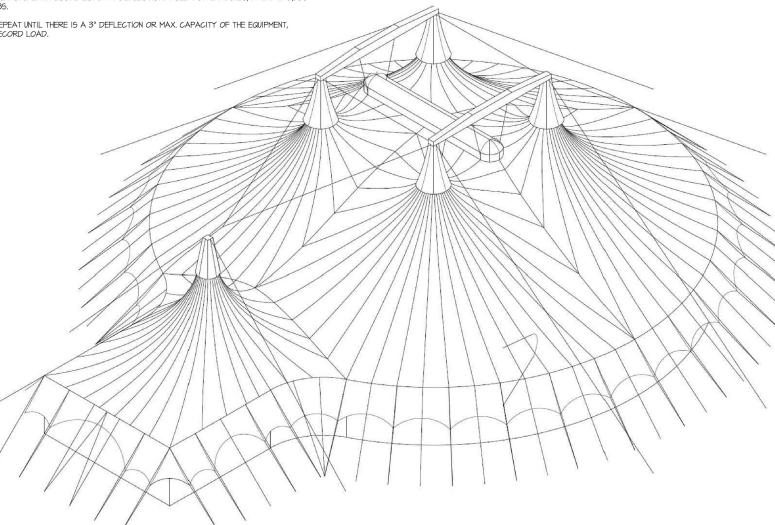
TEST STAKES ARE ADDITIONAL TO THOSE REQUIRED FOR THE TENTS ANCHORS. THEY SHALL BE INSTALLED IN LOCATIONS WHERE THEY DO NOT INTERFERE WITH THE INSTALLATION OF THE ANCHOR STAKES, BUT CLOSE ENOUGH TO BE REPRESENTATIVE OF THE GROUND WHERE THE ANCHOR STAKES SHALL BE DRIVEN.

ALL TEST STAKES ON A SITE SHALL BE DRIVEN USING THE SAME EQUIPMENT AS THE FINAL STAKES. INSTALLATION SHALL BE UNDER THE SUPERVISION OF A SINGLE QUALIFIED PERSON. FOR EACH TEST STAKE, THE FOLLOWING INFORMATION IS TO BE RECORDED IN THE LOG SHEET LOAD TEST RECORD RECORD.

SITE NAME, DATE AND TIME OF THE INSTALLATION;
NAME OF THE SUPERVISOR AND EQUIPMENT OPERATOR;
TYPE OF EQUIPMENT USED FOR THE DRIVING;
IDENTIFICATION OF THE SOIL CONDITION WHERE THE STAKE IS DRIVEN;
CONFIRMATION OF THE APPROXIMATE VALUE OF THE ANGLE THE STAKE IS DRIVEN;
TIME REQUIRED TO DRIVE THE FIRST HALF AND THE SECOND HALF OF THE STAKE;
OBSERVATIONS ON THE DRIVING, FOR THE FIRST HALF AND THE SECOND HALF OF THE DRIVING.



THE MYSTERIOUS CIRCUS
US TOUR
CIRCUS TENT & GRANDSTANDS



2 BIG TOP AXON
SCALE: NTS

REVISIONS	NOTE
DATE	REMARKS
1/14/2022	
2/23/2022	

1/14/2022	GENERAL STRUCTURAL, NOTES AND HWAP
2/23/2022	DRAWING NO.

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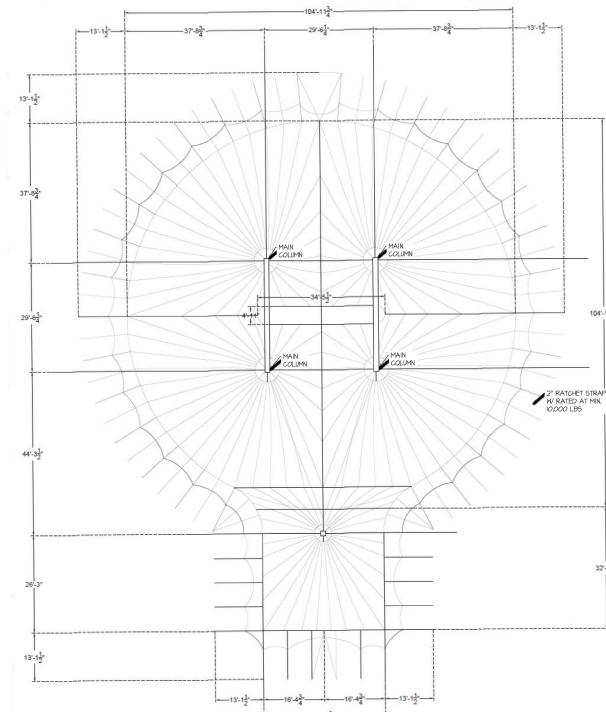
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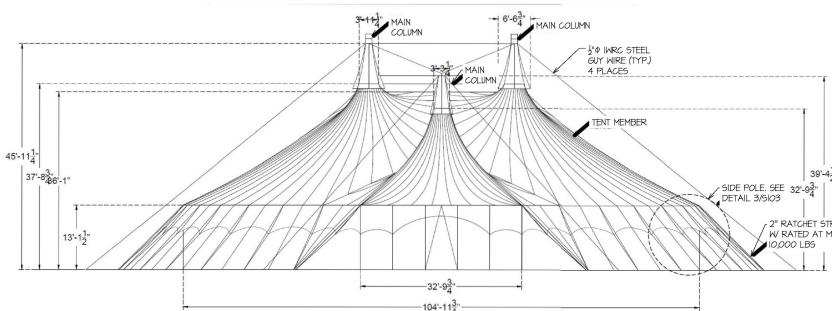
TITLE: BIG TOP TENT PLAN
AND ELEVATIONS
No. DATE: REAMERS
DRAWING NO.
SCALE AS NOTED

S102
PROJECT NO.
LM-221



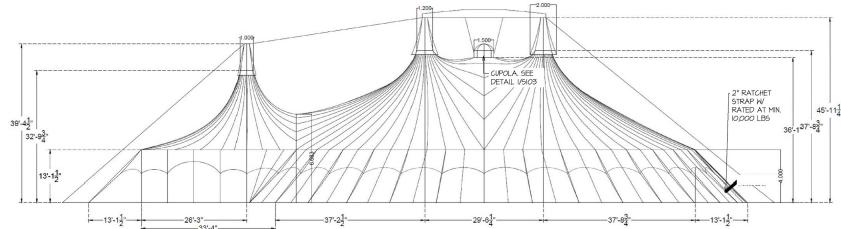
(1) BIG TOP PLAN
SCALE: 1/16" = 1'-0"

NOTE: GRAND STAND BY OTHERS AND SHOWN FOR VISUAL REPRESENTATION ONLY



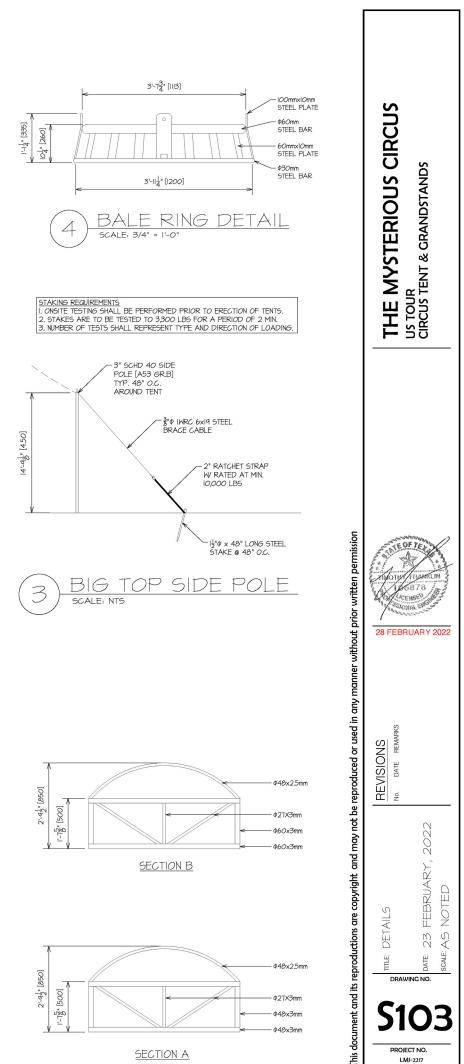
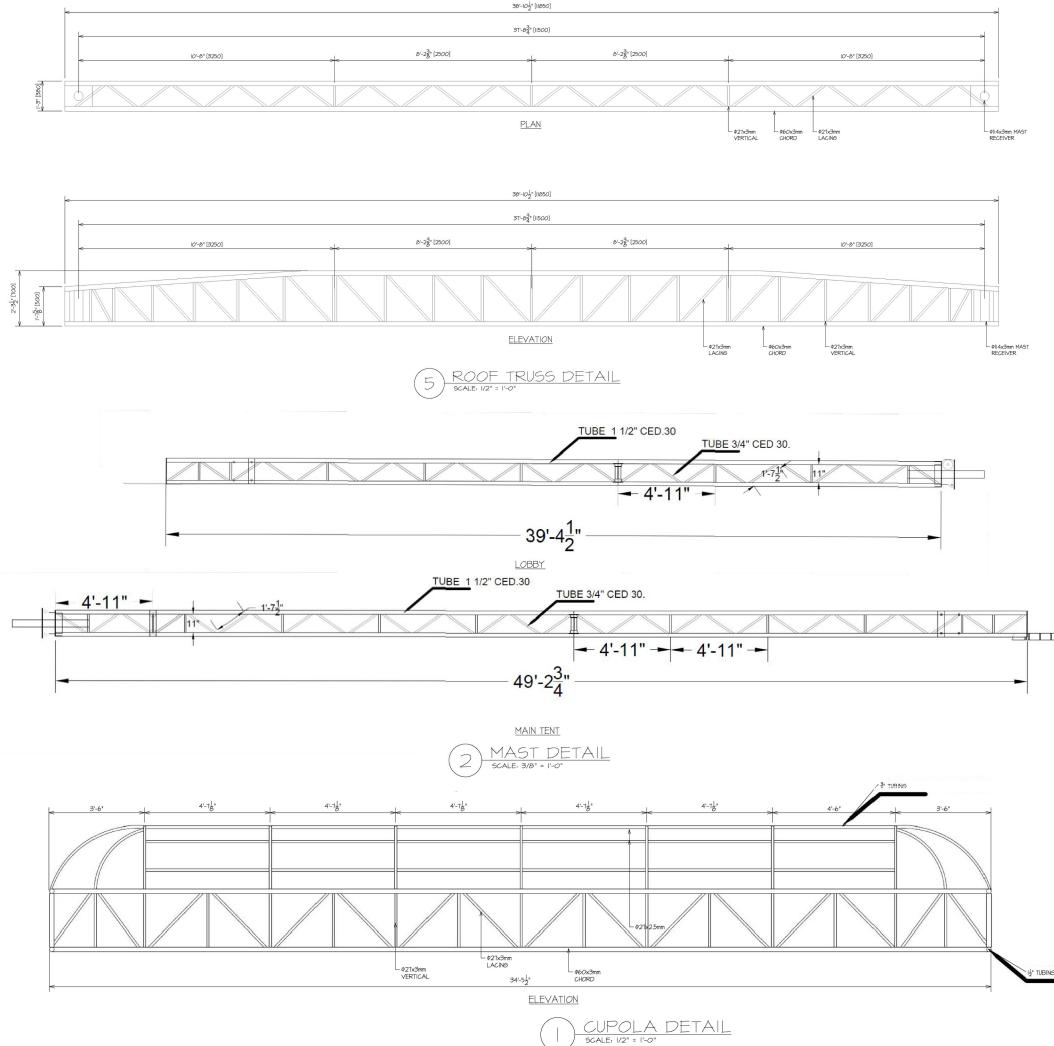
(2) BIG TOP FRONT ELEVATION
SCALE: 1/16" = 1'-0"

NOTE: GRAND STAND BY OTHERS AND SHOWN FOR VISUAL REPRESENTATION ONLY



(3) BIG TOP SIDE ELEVATION
SCALE: 1/16" = 1'-0"

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