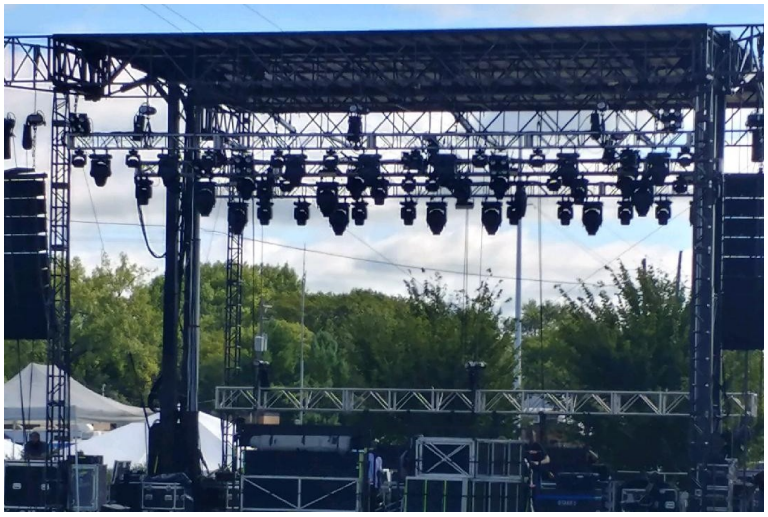
VISION FAB | HYDRAULIC MOBILE STAGE

Spartan 4340

40' × 40' stage deck under a 43' × 40' steel truss roof



The Spartan 4340 is a large-format hydraulic mobile stage built by Vision Fabrication & Design. A 40' × 40' performance deck sits 5' off the ground under a 43' wide steel truss roof with 28' of clear height to the trusses. The roof carries up to 32,000 lbs of distributed load, and two 5' cantilevered sound wings hang line arrays outside the stage opening. Full-height banner and screen space on both sides and across the top gives sponsors a large, visible canvas.

KEY SPECIFICATIONS

Stage deck	~40' W × 40' D
Deck height	5'-0"
Roof size	43'-0" W × 40'-3" D
Clear height	28'-0" deck to roof truss
Overall height	~36'-3"
Footprint	~42'-2" W × ~47'-4" D (with stairs)

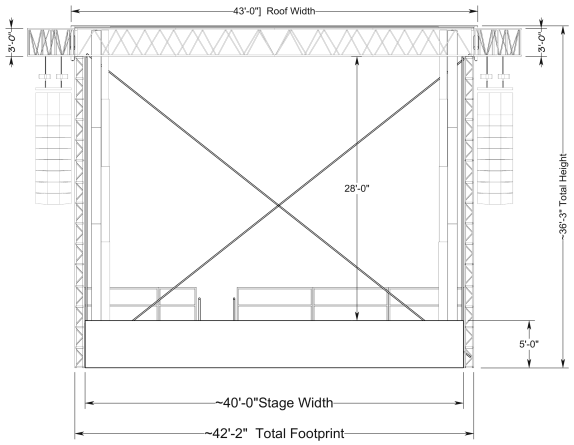
Roof load (UDL)	32,000 lbs max, evenly distributed
Roof trusses	36" deep steel, 8' on center, 40' span
Sound wings	5' cantilever DSL & DSR, 3,000 lbs each
Spreader beams	2,000 lbs each, at truss panel points
Floor live load	100 PSF
Wind rating	67.5 mph 3-second gust with 70% screen on 3 sides

ROOF TRUSS CAPACITY (PER TRUSS)

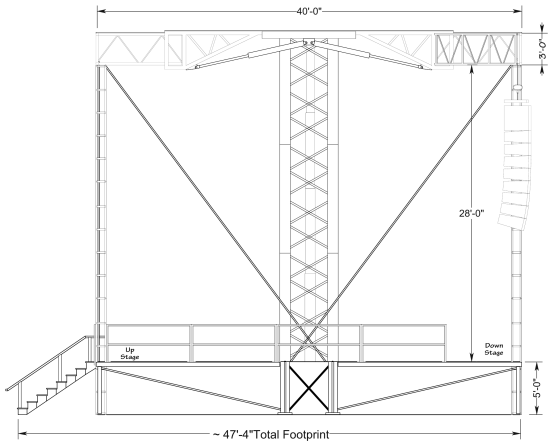
Uniform load	160 lbs/ft, 6,400 lbs total
Quarter points	1,600 lbs at each 1/4 point, 4,800 lbs total
Center point	3,200 lbs

These per-truss limits are alternatives and may not be combined. Total roof load never exceeds 32,000 lbs. Spreader beams must hang at truss panel points.

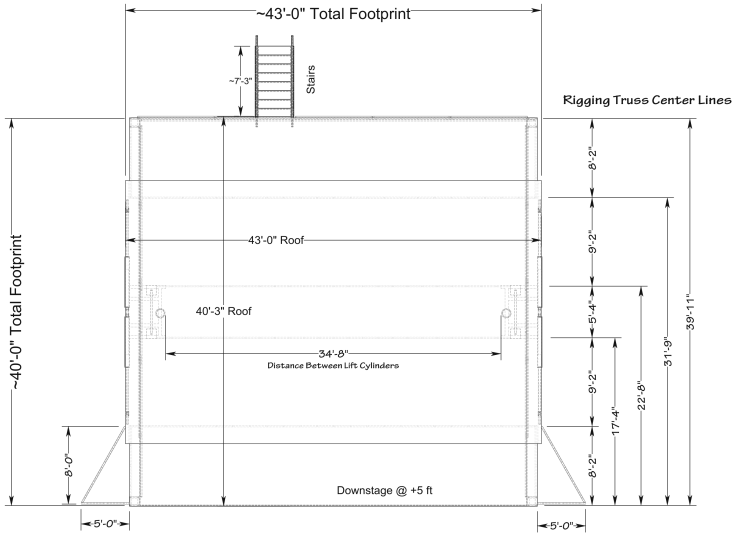
DRAWINGS



Front elevation



Stage right elevation



Top / plan view, with rigging truss center lines

BANNERS & SCREENS

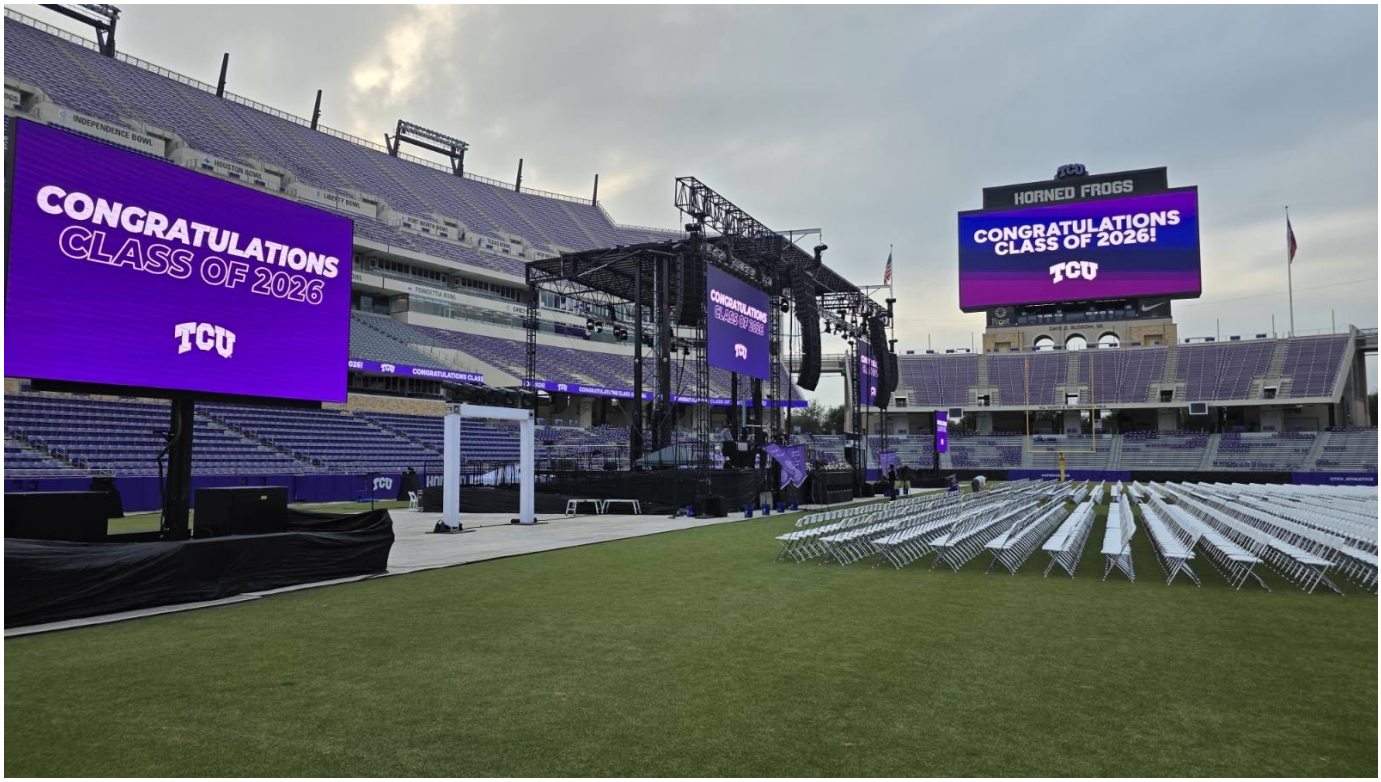
Vertical banners	96" W × 372" H (8' × 31'), stage left and right
Top banner	500" W × 35" H
Material	70/30 mesh minimum
Grommets	Every 18" or less, top and bottom
Ballast	Client provides 4 concrete ballast blocks when vertical banners are used

Capacities are for the fully assembled and cable-braced structure, per the structural review by A.M. Structural Engineering, LLC (David P. Wagner, P.E.), June 25, 2015. Wind review per ASCE 7 and ANSI E1.21, open terrain. Dimensions are approximate; confirm site requirements with ESG before your event.

OPTIONS

Video Fly Bays

Truss fly bays extend off stage left and stage right of the roof so LED video walls can be flown beside the stage. Screens hang clear of the deck, keep sightlines open for IMAG, and leave the performance area free for the show.



Spartan 4340 with video fly bays and flown LED walls



Spartan 4340 with fly bays, banner legs and top header in place

Front Audio Hang

Downstage hang points for flying the main PA in front of the stage.