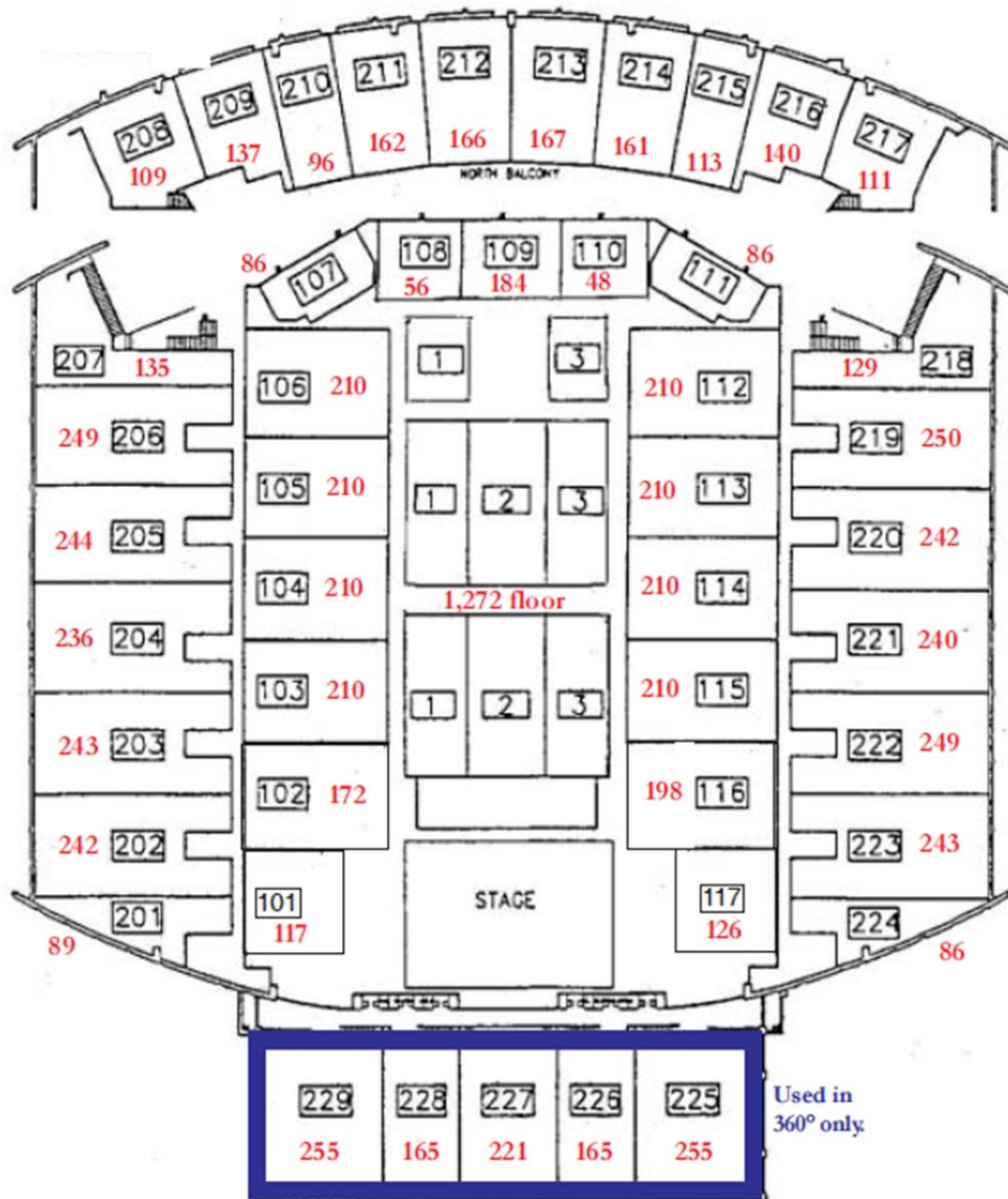


Arena Layout

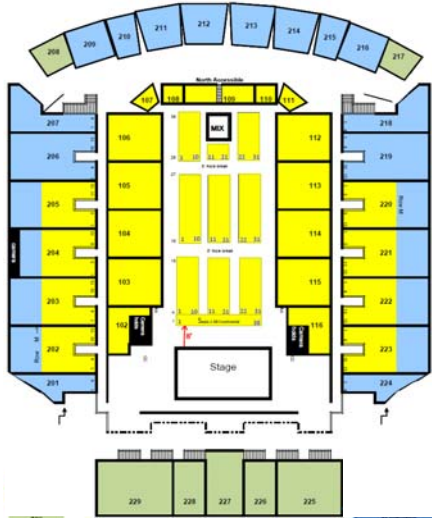
Seats by Section



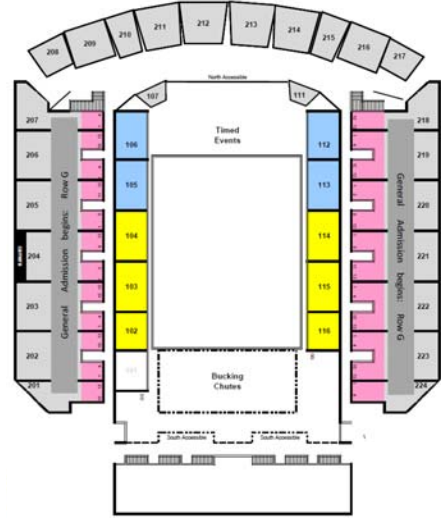
- A sample of a south stage set, with no kills or obstructed seats.

Arena

Sample Layouts



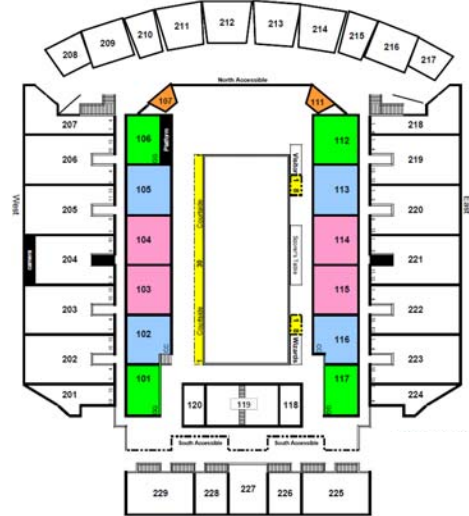
Full Concert Map



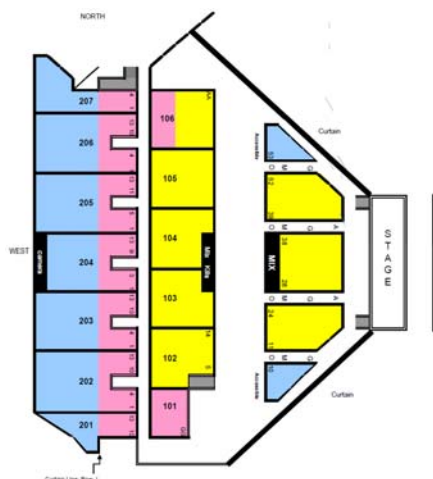
Rodeo Map



Impact Fighting Map



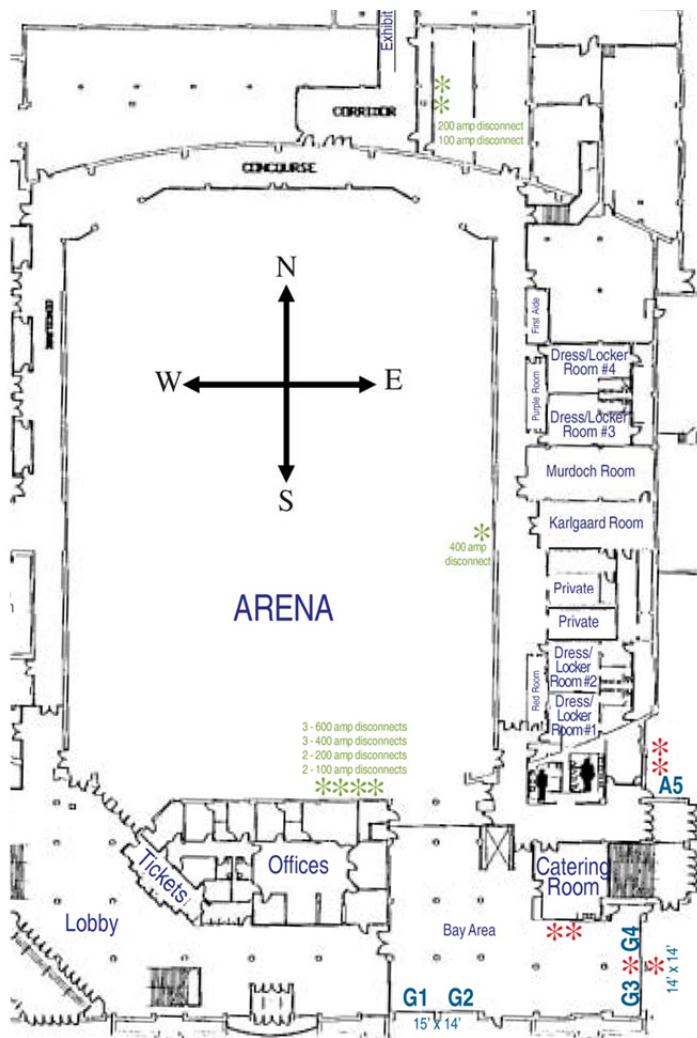
Basketball Map



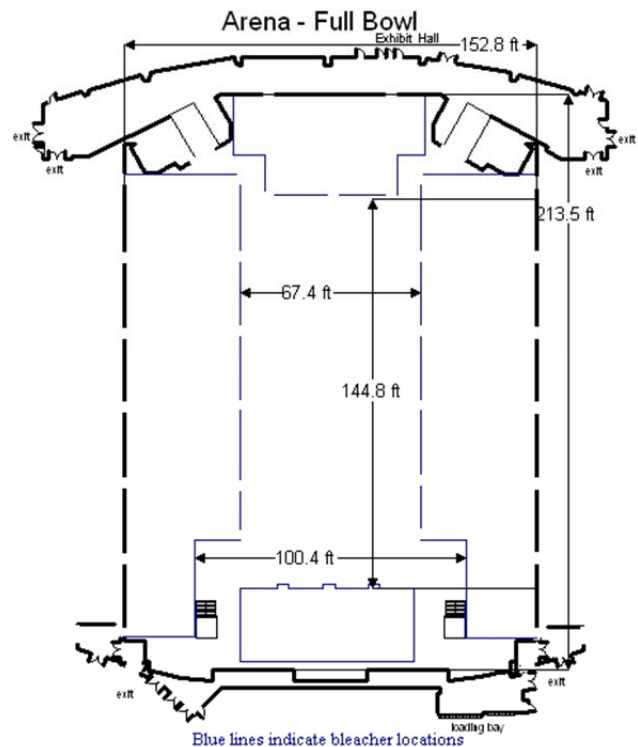
Starlite Theater Map

Arena

Technical Specs & Capacities



* = Shore Power
 * = Disconnect Power
 Doors/Overhead Doors



Seating Capacities

Boxing	9,989
High School Basketball	8,683
Pro Basketball	8,799
Rodeo	6,966
Reserved Concert (South Set)	8,432
Curtain Concert Set	5,000
GA Festival Concert	10,500
Hockey/Football	7,225
Ice Show	5,400
Starlite Theatre Set	3,100
All capacities are approximate.	

Power

East Arena	1- 400 amp disconnect
North Arena	1 - 200 amp disconnect
	1 - 100 amp disconnect
South Arena	3 - 600 amp disconnect
	2 - 400 amp disconnect
	2 - 200 amp disconnect
	2 - 100 amp disconnect

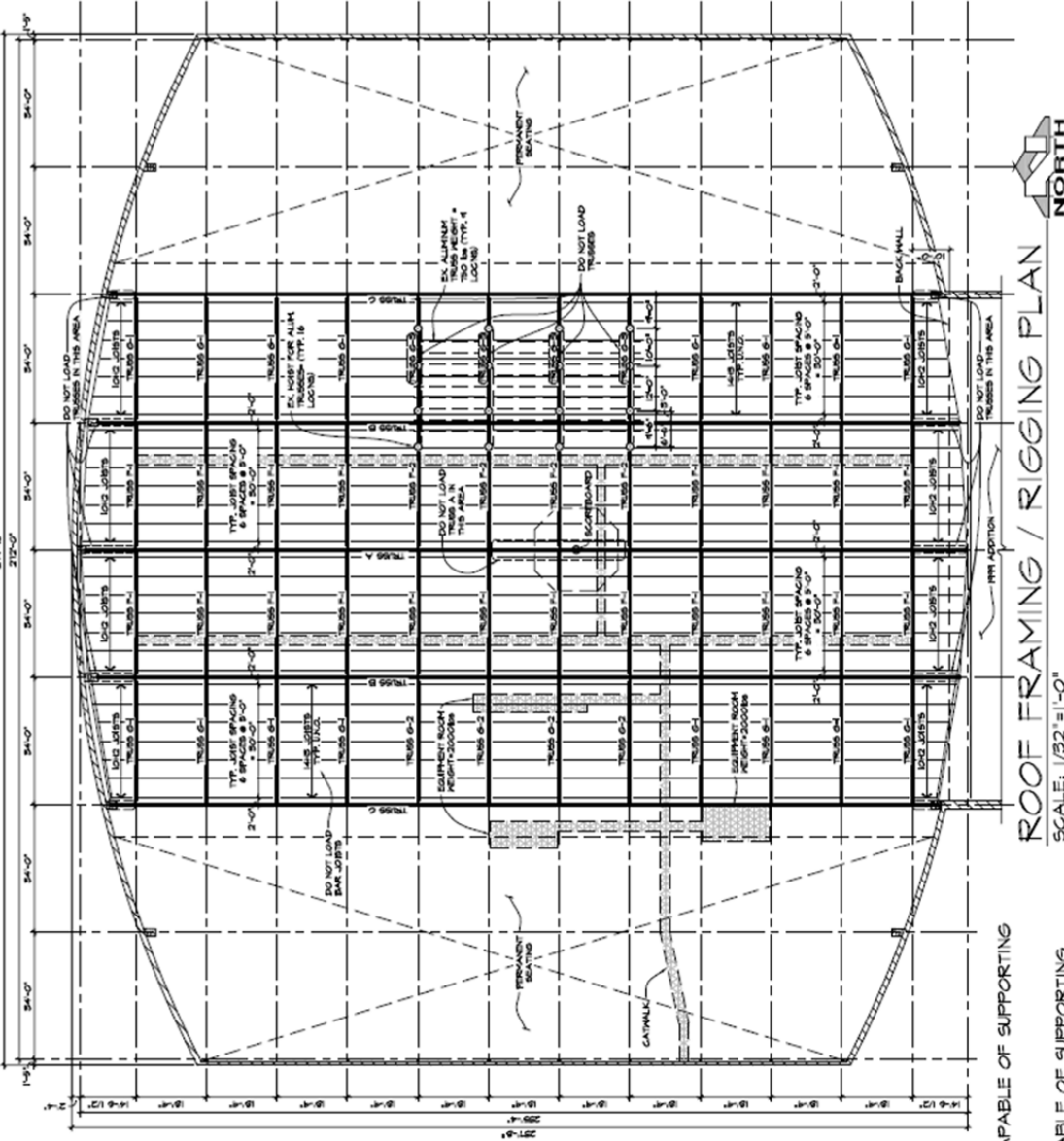
Staging

88' x 40' Max
 4', 5', 6' Height

Dressing Rooms

- Total Available 10
- #3 & #4 18' x 30'
- #2 18' x 18'
- #1 18' x 16'
- Red, Purple 12' x 8'
- Murdoch (Wardrobe)
- Karlgaard (Production Office/Pyro)

Arena Rigging Maps



ROOF FRAMING / RIGGING PLAN
SCALE: 1/32"=1'-0"

- NOTES:
- (1) RIGGING ATTACHMENT TO STRUCTURE IS NOT BY CIVIL/STRUCTURAL ENGINEERS.
 - (2) DO NOT MODIFY EXISTING STRUCTURAL MEMBERS OR CONDITIONS IN ANY WAY.
 - (3) RIGGING LOADS MUST COMPLY WITH THE LIMITS DESCRIBED ON THESE DRAWINGS.

RIGGING KEY	
LOCATION	LOADING DIAGRAM
TRUSS A	SEE DET. 1/52
TRUSS B	SEE DET. 1/52
TRUSS C	SEE DET. 1/52
TRUSS F-1	SEE DET. 1/53
TRUSS F-2	SEE DET. 1/53
TRUSS G-1	SEE DET. 1/53
TRUSS G-2	SEE DET. 1/53
TRUSS G-3	NO ADDITIONAL LOAD
JOISTS	NO ADDITIONAL LOAD

- NOTES:
- (1) EXISTING FRAMING MEMBER SIZES AND LAYOUT BASED ON BISMARCK CIVIC ARENA ARCHITECTURAL DRAWINGS. RITTERBUSH BROTHERS, ARCHITECTS AND ENGINEERS, PROJECT 6413, REVISED 5-1-67. ALL DIMENSIONS SHOWN TO BE FIELD VERIFIED AS REQUIRED.
 - (2) MAXIMUM ALLOWABLE RIGGING LOAD ON MEMBERS WITH RESTRICTIONS AS INDICATED ASSUMING EACH MEMBER IS FULLY LOADED = 357,000 lb
- DESIGN LOADS:
- ROOF LIVE (SNOW) LOAD = 30 psf
 $P_g = 35 \text{ psf}$, $I_s = 1.0$, $C_e = 1.0$, $C_t = 1.0$
 CATWALK LIVE LOAD = 40 psf
 CATWALK EQUIPMENT
 ROOM LOAD = 2000 lbs
 SCOREBOARD LOAD
 PER MOUNTING POINT = 11500 lbs
 ALUMINUM TRUSS LOAD
 PER TRUSS = 750 lbs

- PLAN NOTES:
- (1) (---) INDICATES AREA OF TRUSS NOT CAPABLE OF SUPPORTING ADDITIONAL RIGGING LOAD
 - (2) (TRUSS X) INDICATES ENTIRE TRUSS NOT CAPABLE OF SUPPORTING ADDITIONAL RIGGING LOAD
 - (3) O INDICATES EXISTING HOIST FOR ALUMINUM TRUSSES
 - (4) ZZZ INDICATES EXISTING MASONRY WALL CONSTRUCTION
 - (5) [] INDICATES EXISTING CONCRETE COLUMN

Arena Rigging Maps

NAME	MAX TOTAL LOAD BETWEEN TRUSS LINES- TRUSSES A, B, C
TRUSS A	3,000 lb
TRUSS B	3,000 lb
TRUSS C	2,000 lb

* THE HEAVY TRUSSES POSSESS ADDITIONAL LOAD CAPACITY NOT SHOWN ON THIS DETAIL- THIS ADDITIONAL CAPACITY IS DEPENDENT UPON LOADING OF THE LIGHT TRUSSES & EXPLAINED ON SHEET S4

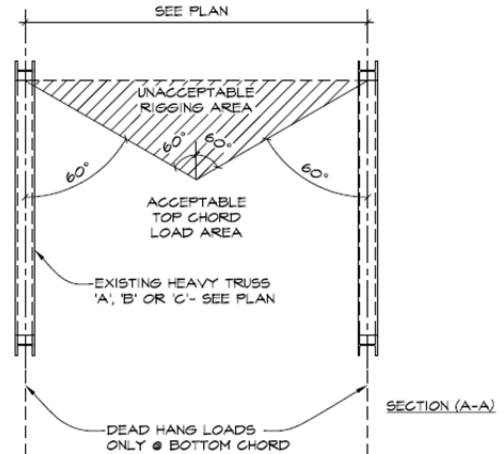
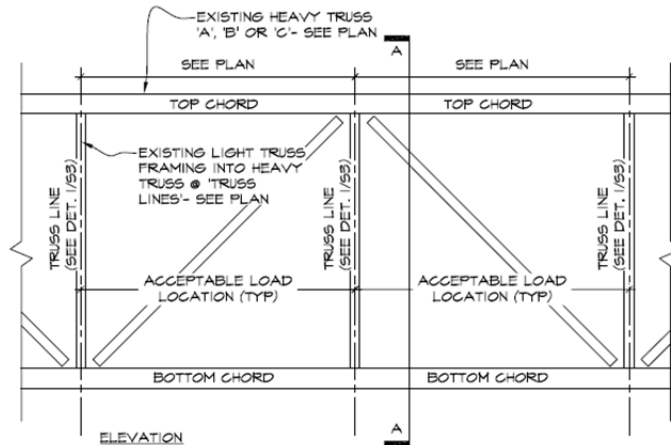
LOADING NOTES:

(1) MULTIPLE LOADS MAY BE PLACED ON THE TOP CHORD AND BOTTOM CHORD BETWEEN TRUSS LINES PROVIDED THE LOADS DO NOT EXCEED THE MAX TOTAL LOAD BETWEEN TRUSS LINES AS INDICATED ON TABLE TO LEFT

(2) ANY LOAD NOT DEAD HUNG MUST HAVE THE ENTIRE LOAD APPLIED TO BOTH SUPPORTING CHORDS

NOTE:

DO NOT RIG BETWEEN TWO TRUSSES AT ANGLES SHALLOWER THAN 60° FROM VERTICAL AS SHOWN ON THIS DETAIL



1. LOADING DIAGRAM- HEAVY TRUSS A, B OR C

NAME	MAXIMUM LOADS- DO NOT EXCEED ANY- F & G TRUSSES		
	TOP CHORD	BOTTOM CHORD	TRUSS HALF
TRUSS F-1	2,000 lb	1,300 lb	2,000 lb
TRUSS F-2	2,000 lb	1,300 lb	2,000 lb
TRUSS G-1	1,400 lb	2,000 lb	2,000 lb
TRUSS G-2	1,400 lb	2,000 lb	2,000 lb
TRUSS G-3	NO ADD'L LOAD	NO ADD'L LOAD	NO ADD'L LOAD

LOADING NOTES:

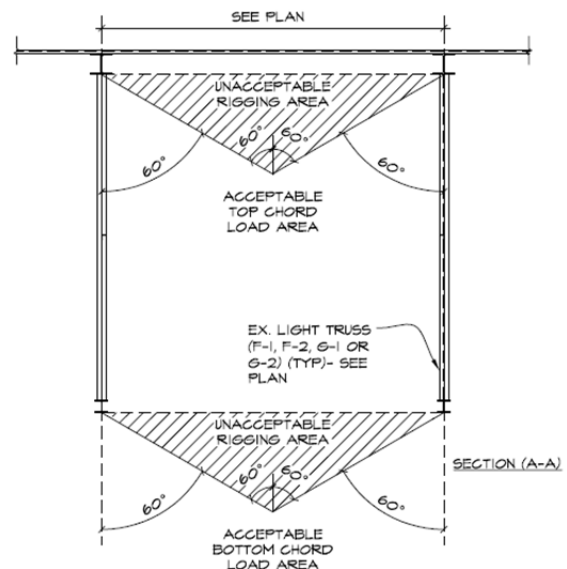
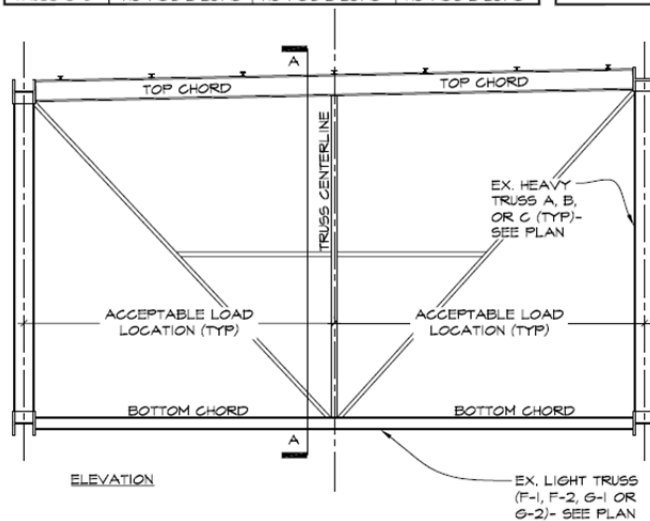
(1) MULTIPLE LOADS MAY BE PLACED ON THE TOP CHORD AND BOTTOM CHORD OF THE SAME TRUSS HALF PROVIDED THE LOADS DO NOT EXCEED THE CHORD MAXIMUMS OR THE TRUSS HALF MAXIMUM AS INDICATED ON TABLE TO LEFT

(2) A CHORD WHICH HAS NOT BEEN FULLY LOADED PER THE TABLE TO THE LEFT MAY HAVE THE REMAINING LOAD CAPACITY ADDED DIRECTLY TO THE ADJACENT HEAVY TRUSS- SEE DETAIL 1/54

(3) ANY LOAD NOT DEAD HUNG MUST HAVE THE ENTIRE LOAD APPLIED TO BOTH SUPPORTING CHORDS

NOTE:

DO NOT RIG BETWEEN TWO TRUSSES AT ANGLES SHALLOWER THAN 60° FROM VERTICAL AS SHOWN ON THIS DETAIL



1. LOADING DIAGRAM- LIGHT TRUSS F-1, F-2, G-1 OR G-2

Arena

Rigging Maps

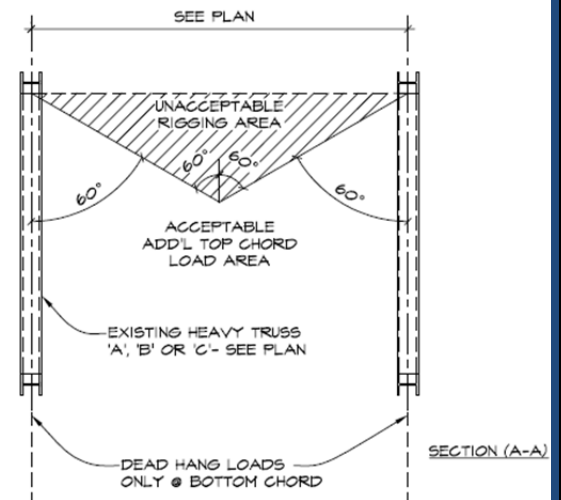
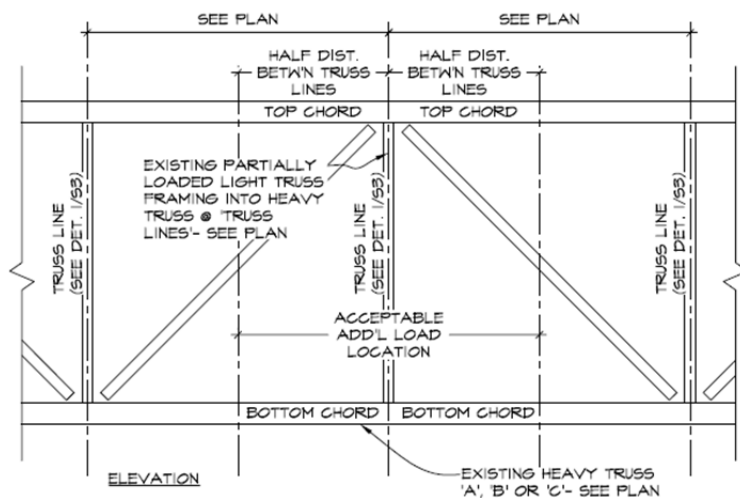
LOADING NOTES:

(1) THE LOAD CAPACITY SHOWN ON THIS DETAIL IS IN ADDITION TO THAT SHOWN ON DETAIL 1/52

(2) REMAINING LOAD CAPACITY FROM ONE HALF OF A LIGHT TRUSS NOT LOADED TO MAXIMUM TRUSS HALF CAPACITY INDICATED ON DETAIL 1/53 MAY BE ADDED TO THE ADJACENT HEAVY TRUSS IN ACCEPTABLE LOCATIONS AS INDICATED ON THIS DETAIL- FOR EXAMPLE: 600 lb OF RIGGING LOAD HAS BEEN PLACED ON ONE HALF OF A TRUSS LABELED 'F-1'. THE MAXIMUM TRUSS HALF LOAD SHOWN ON SHEET 53 IS 2000 lb. THE DIFFERENCE BETWEEN THE ACTUAL LOAD & ALLOWABLE MAX LOAD ($2000\text{lb} - 600\text{lb} = 1400\text{lb}$) MAY BE APPLIED DIRECTLY TO THE ADJACENT HEAVY TRUSS TOP OR BOTTOM CHORD AS ALLOWED BY DETAIL 1/54

(3) ANY LOAD NOT DEAD HUNG MUST HAVE THE ENTIRE LOAD APPLIED TO BOTH SUPPORTING CHORDS- MAKE SURE BOTH CHORDS CAN SUPPORT THE ADDITIONAL LOAD

NOTE:
DO NOT RIG BETWEEN TWO TRUSSES AT ANGLES SHALLOWER THAN 60° FROM VERTICAL AS SHOWN ON THIS DETAIL



① PARTIALLY LOADED LIGHT TRUSS LOAD TRANSFER TO HEAVY TRUSS DIAGRAM