



DATE: 5/22/18

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SHEET LEGEND

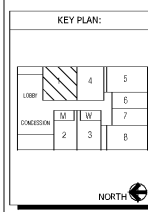
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AMC MADISON YARDS 8
AMC NEW BUILD
905 MEMORIAL DRIVE SE
ATLANTA, GA 30316



REV	DATE	DESCRIPTION

ORIGINAL SCALE DATE: 01/17/2018



SHEET TITLE:
SCREEN STRUCTURE FRONT ISOMETRIC

SHEET NUMBER:
PLFS4.1

MEMBER LIST:

- A** "WRAP-AROUND" SCREEN FRAME BY MDI
- B** COLUMN C-SHAPE UPRIGHT
3" x 1.625" x 14 GAGE (0.070") A570 GRADE 50
- C** TRUSS WEB C-SHAPE
1.5" x 1.0" x 16 GAGE (0.060") A570 GRADE 36
- D** ROUND TUBE HSS 0.750" x 20 GAGE (0.035") A513 GRADE 1010 TYPE 1 (F_y = 26 KSI MIN)
OR
X-BRACE FLAT BAR 1.0" x 0.25" A36 GRADE (F_y = 36 KSI)
- E** MAIN RECTANGULAR BOX BEAM
3.0" x 1.550" x 14 GAGE (0.070") A570 GRADE 50
- F** SECONDARY RECTANGULAR TUBE BEAM
HSS 2.0" x 1.0" x 11 GAGE (0.045") A513 GRADE 1010 TYPE 1 (F_y = 26 KSI)
- G** OPEN STEEL PLANKS
OSP 9" x 2" x 18 GAGE (AT SPEAKER PLATFORMS, CATWALK LEVELS ONLY)
- H** LATERAL TRUIT
L2x2x1/4 ANGLE GRADE A36 5'-0" MAX LENGTH
- I** UNIFORM P1000 w/ CONNECTION BRACE
12 GA G101 SS GRADE 30

GENERAL STRUCTURAL NOTES FOR SCREEN STRUCTURE:

- THE INTENT OF THESE STRUCTURAL DRAWINGS IS TO SHOW THE PRIMARY STRUCTURAL COMPONENTS AND MEMBERS OF THE SCREEN SUPPORT STRUCTURE. NON-STRUCTURAL COMPONENTS SUCH AS LADDERS, SAFETY DEVICES, SCREEN MATERIALS, ETC. ARE BY OTHERS.
- INSTALLER SHALL REFER TO STRONG / MDI SCREEN SYSTEM DRAWINGS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION, PARTS LIST, AND ERECTION DETAILS.
- BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE w/ GEORGIA AMENDMENTS
- DESIGN LOADS:
 - A. DEAD LOADS OF SCREEN SYSTEM:**
 - 1. SCREEN FRAME STRUCTURE WEIGHT: 5,275 LBS
 - 2. SCREEN FABRIC WEIGHT: 173 LBS
 - 3. WRAP-AROUND FRAME WEIGHT: 473 LBS
 - 4. SPEAKERS (5) WEIGHT: 2,250 LBS
 - 5. SCREEN SHAKERS: 336 LBS
 - 6. UNI-STRUT FOR SCREEN SHAKERS: 1,136 LBS
 - 7. Baffle WALL (PLYWOOD & INS): 1,200 LBS
 - 8. TOTAL WEIGHT (INCLUDING SPEAKERS): 11,043 LBS
 - B. CATWALKS FOR MAINTENANCE ACCESS: 40 PSF**
 - C. SEISMIC CRITERIA:**
 - 1. OCCUPANCY CATEGORY: III
 - 2. SITE SOIL CLASS: D
 - 3. SHORT PERIOD RESPONSE, S_s: 0.130g
 - 4. 1-SECOND PERIOD RESPONSE, S₁: 0.091g
 - 5. DESIGN RESPONSE, SDS: 0.206g
 - 6. DESIGN RESPONSE, SD1: 0.146g
 - 7. SEISMIC DESIGN CATEGORY: C
 - 8. R-FACTOR (SIGNS & BILLBOARDS): 3.0
 - 9. I-FACTOR (PERP TO SCREEN): 1.00
 - 10. I-FACTOR (PARALLEL TO SCREEN): 1.25
- SPECIAL INSPECTIONS OF THE FOLLOWING ITEMS SHALL BE PERFORMED ON A PERIODIC BASIS IN ACCORDANCE WITH CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE w/ GEORGIA AMENDMENTS:
 - A. POST-INSTALLED ANCHORS IN CONCRETE**
 - B. STEEL MATERIAL VERIFICATION**
 - C. STEEL BOLTING IN FIELD**
 - D. STEEL FRAMING IN SITU**

COLUMN REACTION TABLE (KIPS)

LOCATION	DEAD LOAD ONLY	DEAD PLUS LIVE LOAD	SEISMIC UPLIFT	SEISMIC LATERAL
R1	0.76	0.83	N/A	± 0.03
R2	0.68	0.75	N/A	± 0.14
R3	1.00	1.12	N/A	± 0.01
R4	1.03	1.16	N/A	± 0.36

- NOTES:**
- DEAD PLUS LIVE LOAD REACTIONS INCLUDE 1,250 POUND OPERATING LIVE LOAD CONTINGENCY AND IS INTENDED TO ACCOUNT FOR NORMAL MAINTENANCE PERSONNEL.
 - UPLIFT AND LATERAL REACTIONS ARE ASS SEISMIC LOADS WITH A LOAD FACTOR = 0.7E

- REFERENCE NOTES:**
- SEE SHEET PLFS0.1 FOR STRUCTURAL GENERAL NOTES.
 - SEE SHEET PLFS4.3 FOR SCREEN STRUCTURE SUPPORT DETAILS.
 - SEE SHEET PLFS4.6 FOR SCREEN SHAKER DETAILS.

1 PLFS4.1 SCREEN STRUCTURE FRONT ISOMETRIC N.T.S.

SEE SCREEN STRUCTURE BACK ISOMETRIC SHEET FOR LATERAL REACTIONS AT STRUT SUPPORTS

