

1 POWER RISER

TE DRAWING NOTES

1. THE ELECTRICAL CONTRACTOR (EC) SHALL CROSS REFERENCE THESE DRAWINGS AND THE ELECTRICAL DRAWINGS BEFORE ORDERING FIXTURES OR ROUGH-IN. THE EC SHALL NOTIFY THE THEATRE CONSULTANT OF ANY DISCREPENCIES IN LOCATION OR FIXTURE TYPE. WORK ON THESE PAGES IS COORDINATED WITH THE GENERAL CONDITIONS, DIVISION 26 AND WITH SECTION 116133 STAGE

DIVISION 26 AND WITH SECTION 116133 STAGE RIGGING.

2. THESE DRAWINGS SHOW LAYOUTS, LOCATIONS AND TYPES OF EQUIPMENT FOR THE STAGE, HOUSE AND WORK LIGHT SYSTEM AND THE CONTROL SYSTEM. DETAILS ON WIRE AND CONDUIT SIZES ARE FOUND ON THE ELECTRICAL ENGINEERS

DRAWINGS.

3. POWER WIRING AND LOW VOLTAGE CONTROL WIRING SHALL BE RUN IN SEPARATE CONDUIT. LONG PARALLEL RUNS (4' OR LONGER) OF THE TWO CONDUITS SIDE BY SIDE SHALL NOT BE PERMITTED.

EACH CIRCUIT REPRESENTS A 20A, 120VAC CIRCUIT AND HOME RUN TO THE RELAY PANEL.
 EACH CIRCUIT SHALL HAVE TWO WIRES AND SHALL BE GROUNDED. COMMON NEUTRALS SHALL NOT BE PERMITTED.

6. EACH CIRCUIT IS WIRED DIRECTLY TO THE RELAY PANEL AND IS PROTECTED BY AN INTEGRAL CIRCUIT BREAKER. ADDITIONAL PROTECTION IS NOT REQUIRED.

7. THE PANELS, WIRING DEVICES AND CONTROL

DEVICES SHALL BE SET INTO PLACE BY THE EC. IT SHALL BE THE WORK OF THE EC TO RUN ALL CONDUIT AND WIRING FOR LINE VOLTAGE AND LOW VOLTAGE CIRCUITS.

KEY TO SYMBOLS

STANDARD WIRING DEVICE

PS1

= DEVICE NUMBER DESIGNATION

B = BATTEN DROP BOX OR RACEWAY

F = FLOOR POCKET

R = RECESSED

P = PIPE MOUNTED

S = SURFACE

A = ARCHITECTURAL CONTROL

D = DATA

P = POWER

1-7

CIRCUIT NUMBERS

(POWER DEVICES ONLY)

STANDARD CONNECTORS

(NOT TO SCALE)

20A 2P&G "STAGE PIN"

50A 2P&G "STAGE PIN"

6 CIRCUIT 20A VEAM

NEMA L5-20 "TWIST LOCK"

POWERCON TRUE1 TOP

15/20A CONVENIENCE OUTLET

XLR5 "DMX"

RJ45 "NET"

ABBREVIATIONS CIR. CIRCUIT
COND. CONDUCTORS
CONT. CONTINUOUS
DMX USITT DMX512 DOWN STAGE (TOWARD THE AUDIENCE) DOWN STAGE LEFT (WHEN FACING AUDIENCE) DOWN STAGE RIGHT (WHEN FACING AUDIENCE) ELECTRICAL CONTRACTOR ELECTRICAL ENGINEER FRONT OF HOUSE GRID IRON JUNCTION BOX GROUND HOUSE LEFT (WHEN FACING STAGE)
HOUSE RIGHT (WHEN FACING STAGE) LIGHTING SYSTEM INTEGRATOR MANUFACTURER REMOTE FOCUS UNIT RIGGING TRADE CONTRACTOR STAGE LEFT (WHEN FACING AUDIENCE) STAGE RIGHT (WHEN FACING AUDIENCE) TO BE DETERMINED THEATRE CONSULTANT

> UP STAGE LEFT UP STAGE RIGHT

UP STAGE (FARTHEST FROM THE AUDIENCE)

DRA

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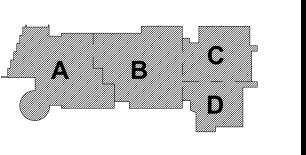
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MSBA DESIGN DEVELOPMENT SUBMISSION

August 4, 2022



KEY PLAN





TE-1.0

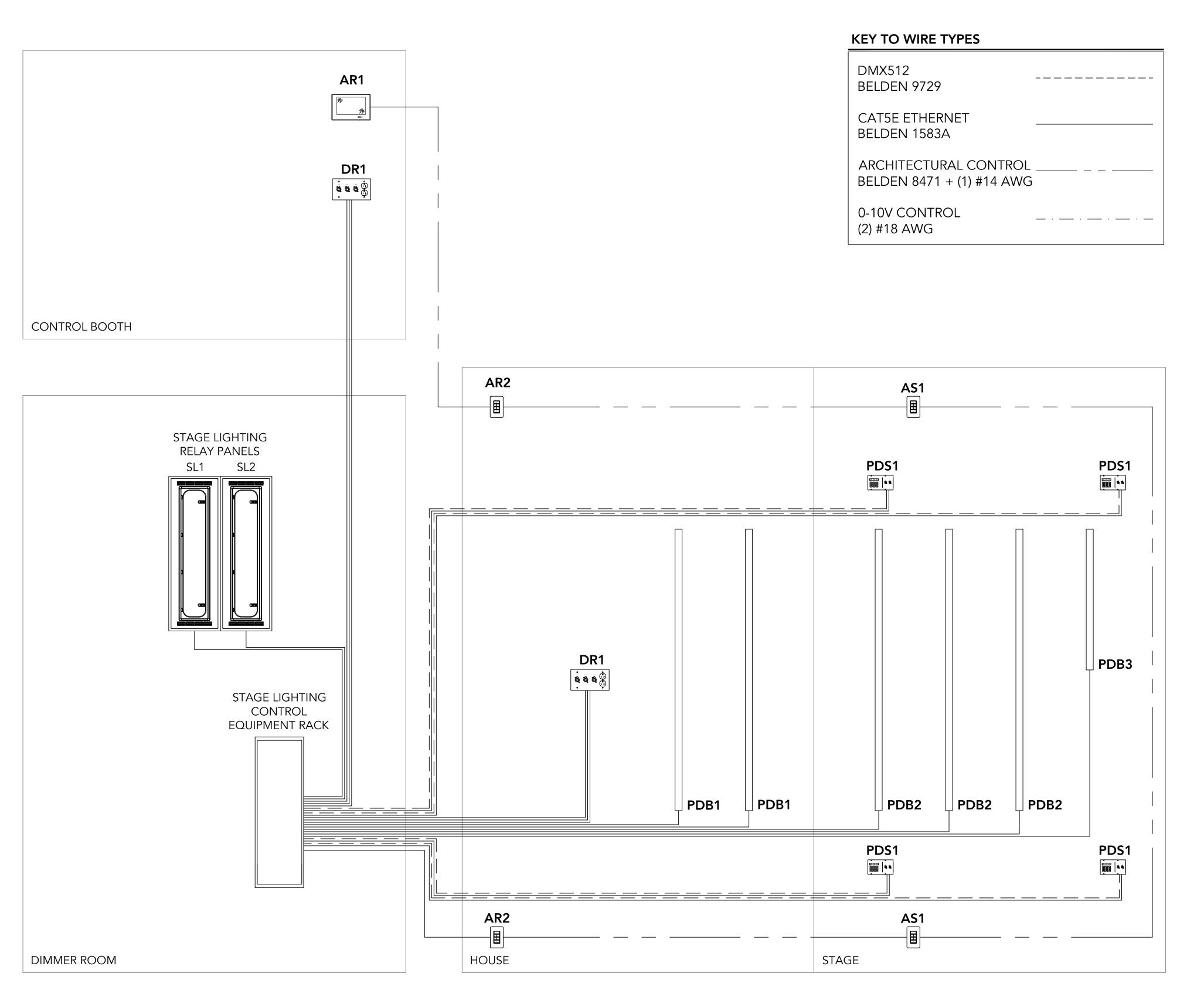
THEATRE
ELECTRICS
POWER RISER

Scale: NTS

Job No.: 20202

Drawn By: JL

Date: August 4, 2022



DATA RISER

DMX512 CABLING AND INSTALLATION

- 1. THE ELECTRICAL CONTRACTOR (EC) SHALL
 BECOME FAMILIAR WITH THE INSTALLATION
 REQUIREMENTS FOR ANSI/ESTA DMX512
 SYSTEMS PRIOR TO BEGINNING INSTALLATION.
 IT IS RECOMMENDED THAT THE EC REVIEW
 RECOMMENDED PRACTICE FOR DMX512 A
 GUIDE FOR USERS AND INSTALLERS BY ADAM
 BENNETTE, WHICH COVERS BOTH ANSI/ESTA
 1.11 DMX512 AND ANSI/ESTA 1.20 RDM
 SYSTEMS. THE BOOKLET IS A FREE
 DOWNLOAD AT
 HTTP://TSP.ESTA.ORG/FREESTANDARDS AT THE
- BOTTOM OF THE PAGE.

 2. DO NOT PURCHASE OR INSTALL CABLE THAT IS
 - NOT: 2.1. LISTED AS APPROVED IN THE STAGE LIGHTING CONTROL SYSTEM SHOP
- DRAWINGS, OR

 2.2. APPROVED BY THE STAGE LIGHTING
 SYSTEM INTEGRATOR PRIOR TO SHOP
- DRAWING APPROVAL.

 3. THE CABLE SHALL BE SUITABLE FOR EIA-485 (RS-485) USE, WITH TWO OR MORE LOW-CAPACITANCE TWISTED PAIRS, WITH OVERALL BRAID AND FOIL SHIELDING. CONDUCTORS SHOULD BE 24 AWG (7/0.2) OR LARGER FOR MECHANICAL STRENGTH AND TO MINIMIZE VOLT DROP ON LONG LINES.
- VOLT DROP ON LONG LINES.

 4. ALL PERMANENT DMX CABLES SHALL BE
- INSTALLED IN CONDUIT.

 5. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED WITH THE SHOP DRAWINGS. PAY PARTICULAR ATTENTION TO CABLE/PIN CONNECTIONS TO AVOID CROSS-WIRING.
- CROSS-WIRING.

 6. DMX CABLE RUNS CONTROLLING
 PERMANANTLY INSTALLED DEVICES SHALL
 HAVE NO MORE THAN 30 DEVICES PER RUN.
 THE EC SHALL PLAN ALL DMX CABLE RUNS
 ACCORDINGLY. TOUCH-AND-GO
 CONNECTIONS AND "Y" CABLES ARE NOT
 PERMITTED. DMX SIGNAL MUST BE PASSED
 ALONG VIA THE DEVICE'S INTEGRAL
 INPUT/OUTPUT CONNECTORS.
- 7. ALL DMX CABLE RUNS THAT END IN AN OPERATING DEVICE SHALL BE TERMINATED BY A 110-130 OHM ½ WATT RESISTER BETWEEN THE DATA LINES AND INSTALLED IN A SUITABLE ENCLOSURE. THE EC AND STAGE LIGHTING SYSTEM INTEGRATOR SHALL COORDINATE THE NUMBER OF TERMINATORS REQUIRED. CABLE RUNS THAT END IN A DMX INPUT OR OUTPUT 5-PIN XLR JACK THAT IS NOT PART OF AN OPERATING DEVICE (SUCH AS A DATA DISTRIBUTION FACEPLATE) DO NOT REQUIRE TERMINATION.
- 8. TERMINATE ALL DMX CABLE RUNS BY:
 8.1. SWITCHING ON THE LAST DEVICE'S
 INTEGRAL TERMINATOR.
- 8.2. ATTACHING A 5-PIN XLR OR RJ45
 (DEPENDING ON THE DEVICE)
 TERMINATOR TO THE LAST DEVICE'S
 DMX OUT PORT. THESE TERMINATORS
 ARE AVAILABLE FROM THE STAGE
 LIGHTING SYSTEM INTEGRATOR.
- 9. THE EC SHALL SET THE START DMX ADDRESS
 ON ALL LIGHT FIXTURES, POWER SUPPLIES,
 AND OTHER DATA RECEIVING DEVICES
 ACCORDING TO THE LIGHTING CONTROL
 SHOP DRAWINGS AND/OR THE LP DRAWINGS
 AT THE TIME OF FIXTURE INSTALLATION.
 FOLLOW MANUFACTURER'S INSTRUCTIONS SO
 THAT THE ADDRESS IS HELD IN MEMORY UNTIL
 THE LIGHTING CONTROL SYSTEM IS
 COMMISSIONED.

0-10V CABLING AND INSTALLATION

- 1. THE EC SHALL CONFIRM THE SOURCE CURRENT OF EACH FIXTURE TYPE AND VERIFY THAT THE TOTAL CURRENT DOES NOT EXCEED THE CAPACITY OF THE CONTROLLER. NOTIFY ARCHITECT AND
- LIGHTING DESIGNER IF ADDITIONAL 0-10V OUTPUTS
 ARE NEEDED TO OVERCOME THE LIMITATION.

 2. 0-10V CONTROL CABLE RUNS SHOULD NOT EXCEED
 300'. IF THIS IS NOT POSSIBLE NOTIFY ARCHITECT
- AND THEATRE CONSULTANT AND COORDINATE
 ALTERNATE LOCATION FOR THE 0-10V CONTROL
 DEVICE.

 3. INSTALL CLASS 1 AND CLASS 2 WIRING IN SEPARATE

FIXTURE TYPE AND VERIFY THAT THE TOTAL CURRENT DOES NOT EXCEED THE CAPACITY OF

CONDUITS PER NEC.

4. 0-10V WIRING SHOULD USE SHIELDED PAIR WIRING WITH THE SHIELD GROUNDED TO EARTH AT THE CONTROLLER.

5. THE EC SHALL CONFIRM THE CURRENT OF EACH

THE CONTROLLER. IF



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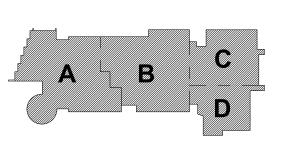
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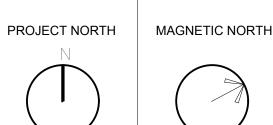
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KEY PLAN



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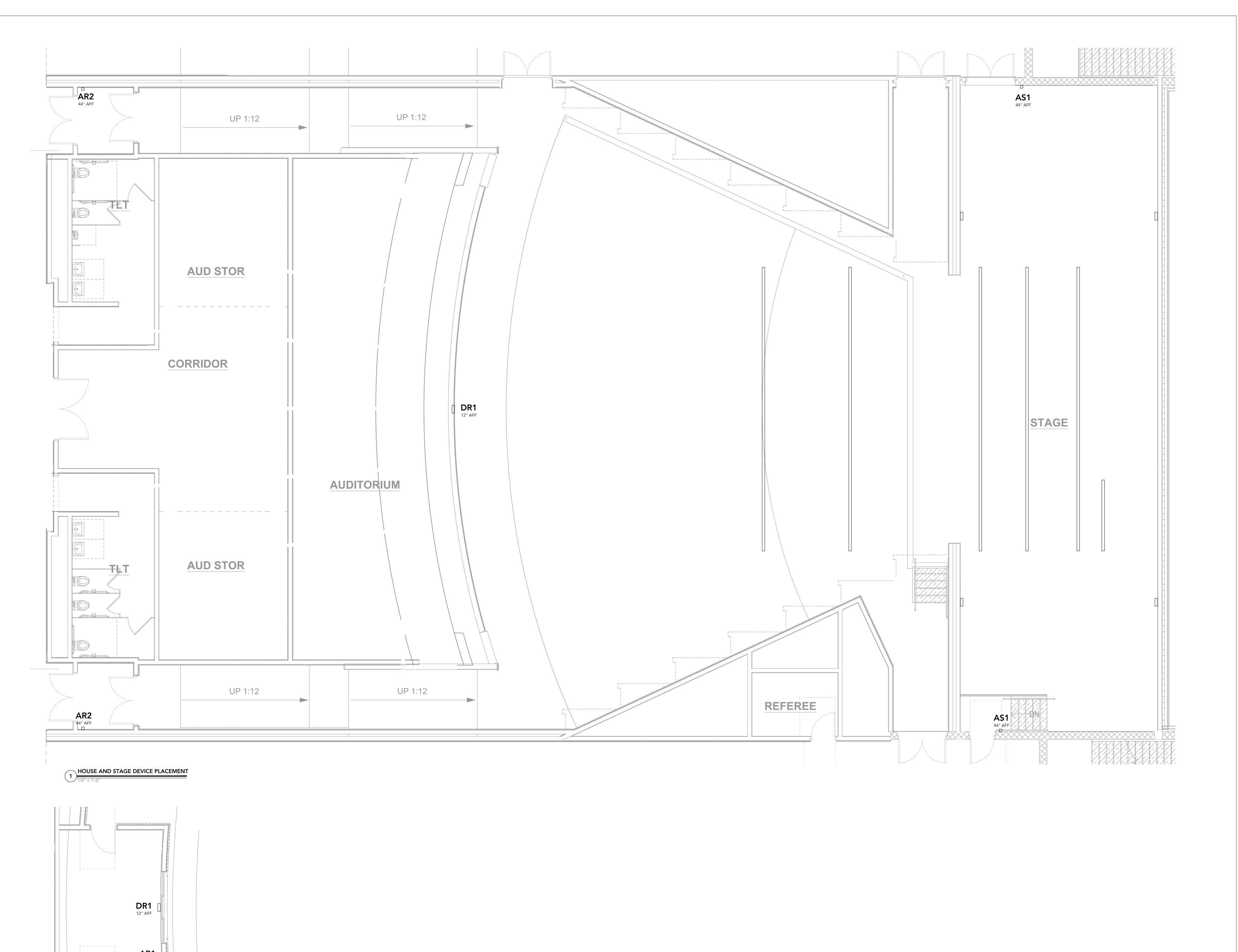
TE-1.1

Scale: NTS
Job No.: 20202

THE WORK ON THIS SHEET IS ASSOCIATED WITH SECTIONS 116153 AND 260963 UNLESS NOTED

Drawn By: JL

Date: August 4, 2022



2 CONTROL BOOTH DEVICE PLACEMENT

1/4" = 1'-0"

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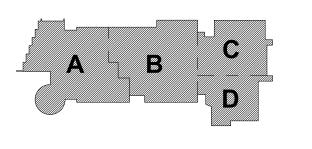
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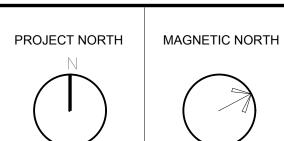
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KEY PLAN



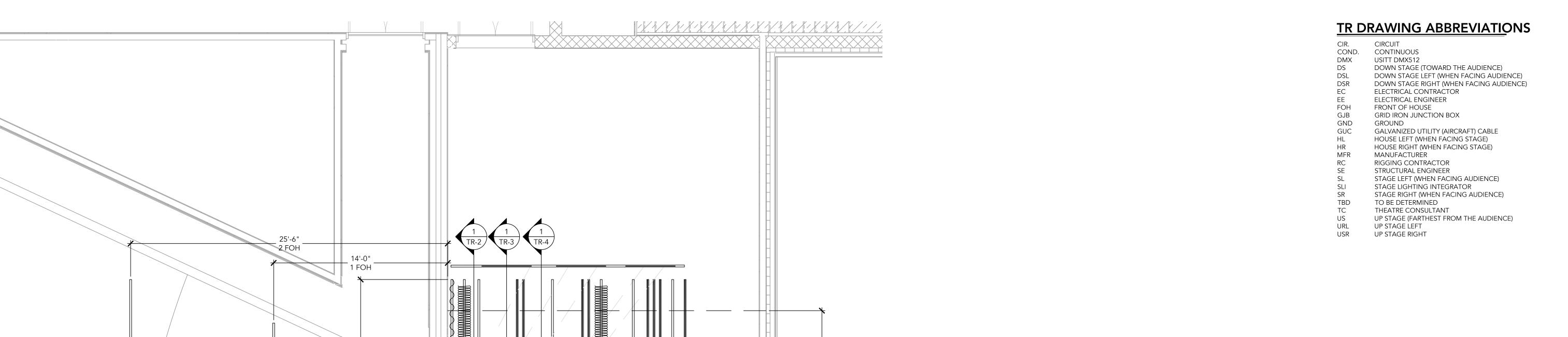
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THEATRE
ELECTRICS
PLACEMENT

Scale: AS NOTED

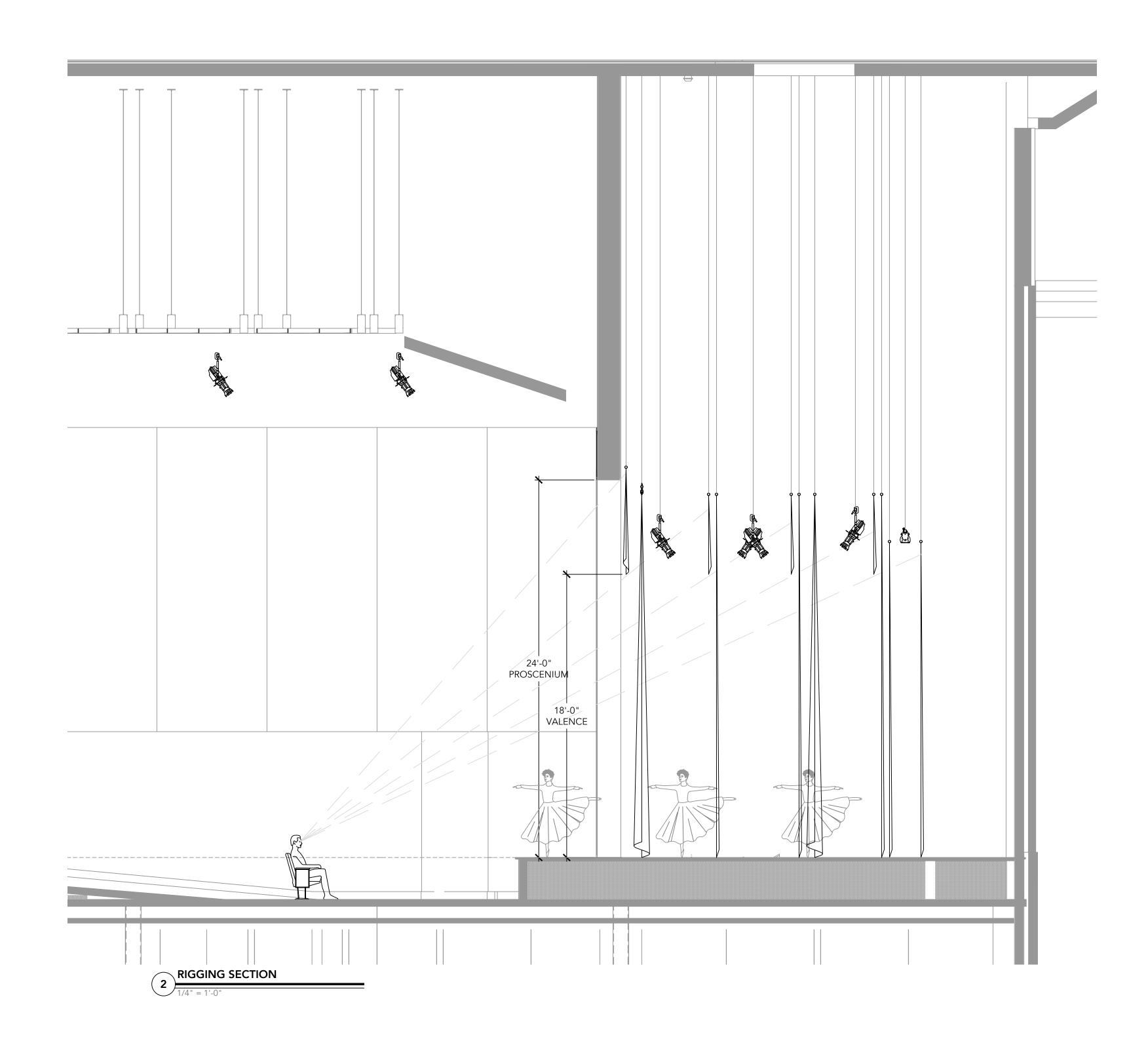
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E - 45'-0" 34'-0" - 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100

_ RIGGING BEAM, TYP. OF 5



HANGING SCHEDULE				
LINESET NO.	USE	DISTANCE FROM PLASTER LINE	BATTEN HEIGHT	REMARKS
2 FOH	#2 FOH	-25'-6"		
1 FOH	#1 FOH	-14'-0"		
1	VALENCE	0'-4"	24'-10"	
2	HOUSE CURTAIN	1'-4"	23'-6"	COORD. HT. WITH HOUSE CURTAIN HT.
3	1ST ELECTRIC	2'-6"	21'-8"	
4	#1 BORDER	5'-7"	23'-0"	
5	#1 LEGS	6'-1"	23'-0"	
6	2ND ELECTRIC	8'-5"	21'-8"	
7	#2 BORDER	10'-10"	23'-0"	
8	#2 LEGS	11'-4"	23'-0"	
9	MID-STAGE TRAVELER	12'-4"	23'-0"	
10	3RD ELECTRIC	14'-11"	21'-8"	
11	#3 BORDER	16'-1"	23'-0"	
12	#3 LEGS	16'-7"	23'-0"	
13	SCRIM	17'-1"	20'-0"	
14	4TH ELECTRIC	18'-1"	21'-0"	
15	CYCLORAMA	19'-1"	20'-0"	

<u>NOTES</u>

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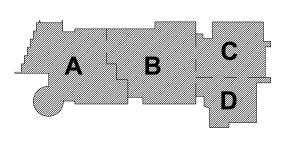
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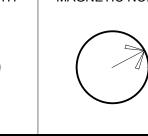
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MAGNETIC NORTH

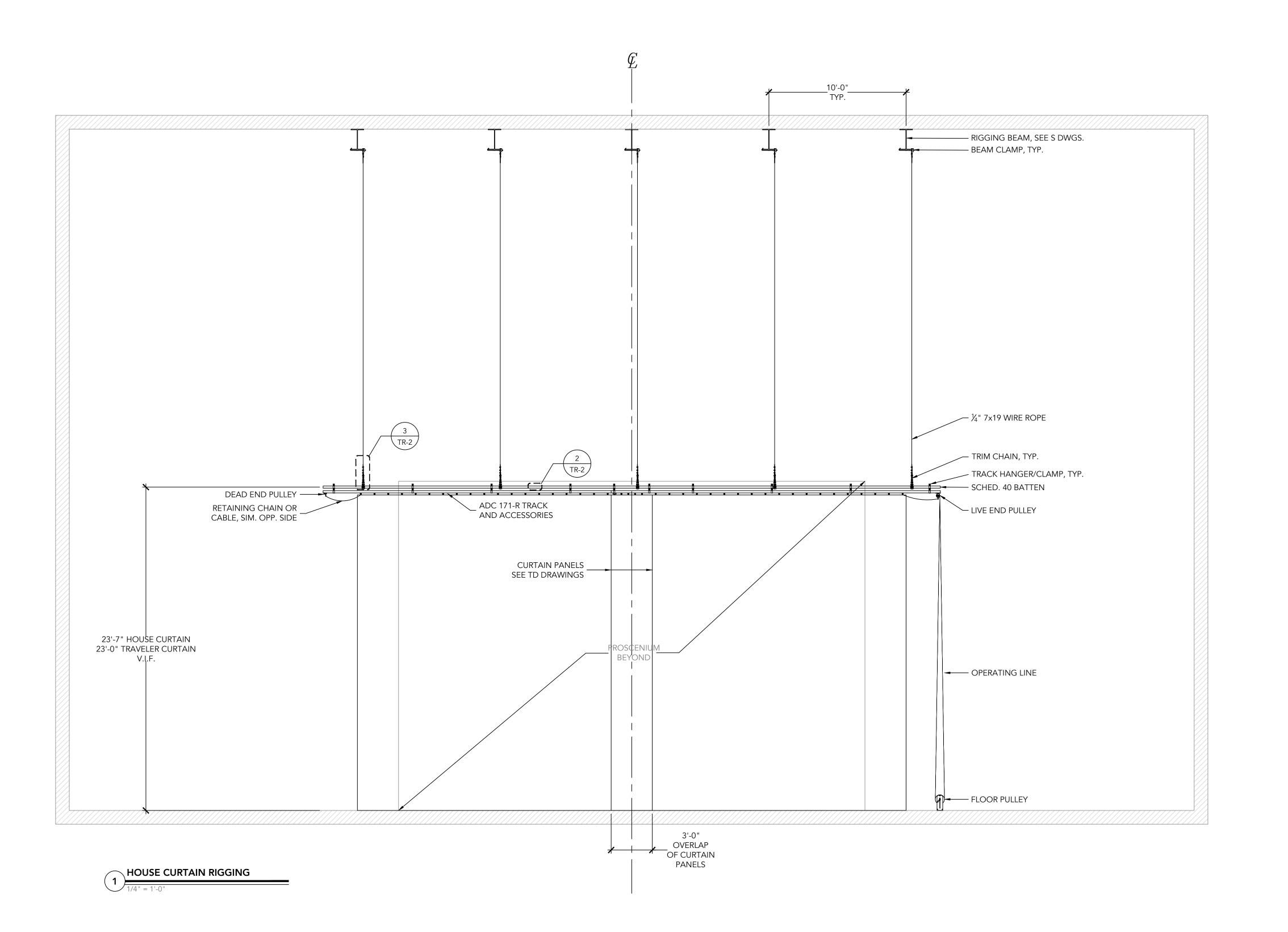


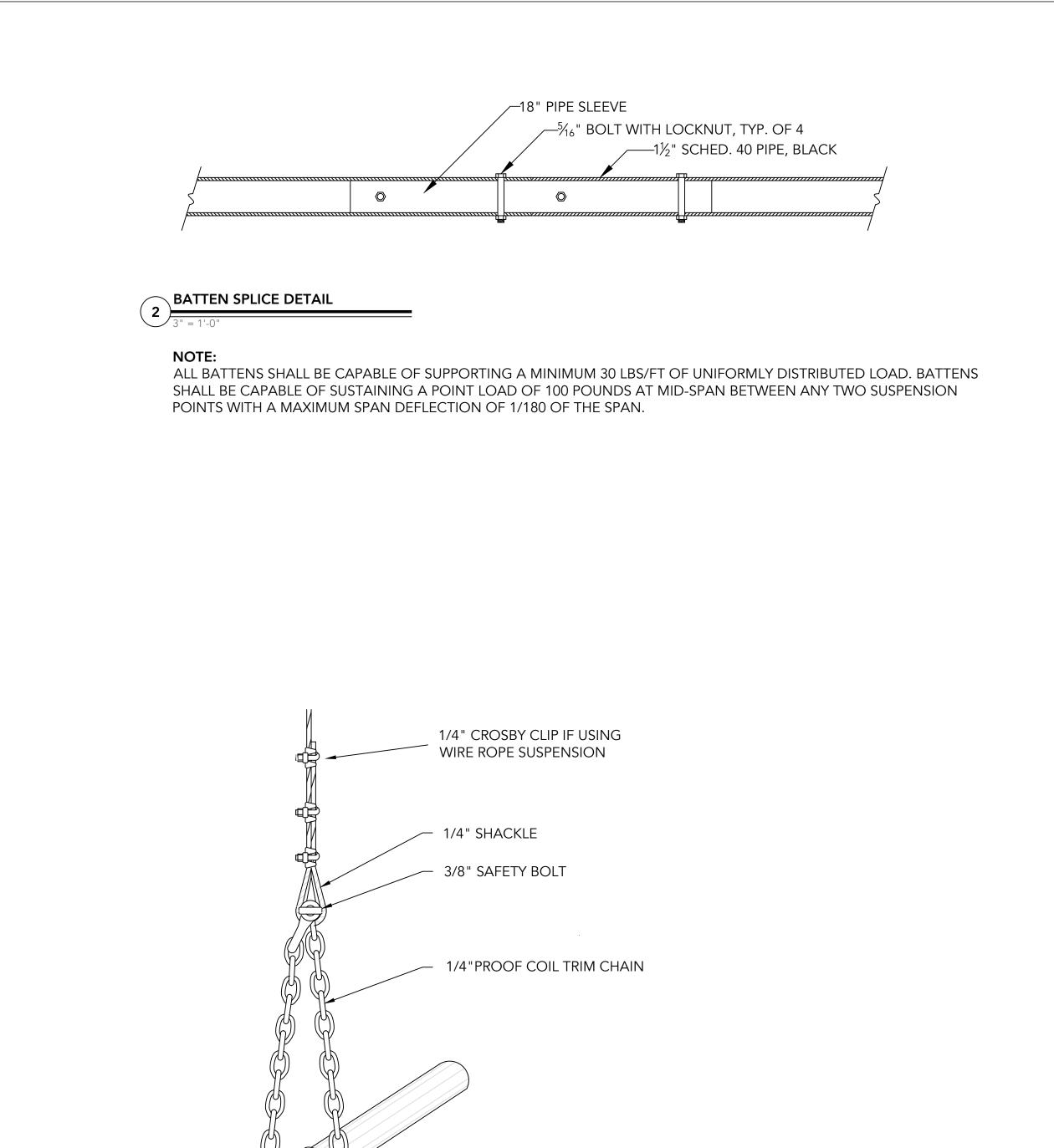


KEY PLAN

THEATRE RIGGING **PLAN, SECTION AND SCHEDULE**

Drawn By: JL





TRIM CHAIN DETAIL

3" = 1'-0"



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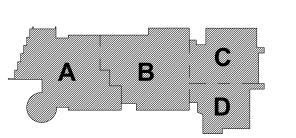
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH

THEATRE RIGGING **TRAVELER CURTAINS**

116133 AND 116143 UNLESS NOTED