

Key West High School Theatrical Lighting and Sound Improvements

PREPARED FOR

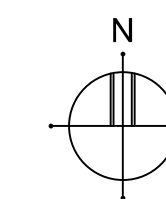


Monroe County School District
241 Trumbo Road
Key West, Florida 33040

PREPARED BY

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Key West High School
2100 Flagler Avenue
Key West, FL 33040



LOCATION OF SITE

DRAWING INDEX

NUMBER	TITLE
X1	COVER SHEET
E0.1	ELECTRICAL LEGEND AND GENERAL NOTES
E0.2	LUMINAIRE SCHEDULE AND CUT SHEET
E1.0	LIGHTING DEMOLITION PLAN - AUDITORIUM
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E2.0	POWER DEMOLITION PLAN - AUDITORIUM
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TS1.4	SPEAKER ARRAY DETAILS
TS1.5	PLATES, RACKS & DETAILS

Construction Documents
February 17, 2017

AGI PROJECT

16020

SHEET

X1

ROBERT C. ANSTON, P.E. 40858

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THE PROJECT MANUAL ARE COMPLETE AND COMPLY
WITH THE 2014 FLORIDA BUILDING CODE

LUMINAIRE SCHEDULE (HOUSE LIGHTING)						
TYPE	DESCRIPTION	VOLTS	WATTS	BALLAST (IF APPLICABLE)	LAMPS	MOUNTING
A	6" LED DOWNLIGHT, 40° VERTICAL AND FULL 360° ADJUSTMENT, HORIZONTAL ROTATION LOCKING, LOCKING VERTICAL AIMING, HEAVY DUTY POWDER COATED COLD ROLLED STEEL FRAME, INTENSE LIGHTING IHOL-6AR-L5-30-DMX-120V-50-HZ OR APPROVED EQUIVALENT	120	90	LED DRIVER WITH DIMMING, PROVIDE WITH R445, CAT 6 CONNECTION FOR DAISY-CHAIN DMX 512	LED, 6300 LUMENS, 3000K, 50" WIDE FLOOD	RECESSED FLANGE. PROVIDE CEILING HANGERS AND ADDITIONAL SUPPLEMENTAL MOUNTING ACCESSORIES AS REQUIRED.
B	6" LED DOWNLIGHT, 40° VERTICAL AND FULL 360° ADJUSTMENT, HORIZONTAL ROTATION LOCKING, LOCKING VERTICAL AIMING, HEAVY DUTY POWDER COATED COLD ROLLED STEEL FRAME, INTENSE LIGHTING IHOL-6AR-L2-30-DMX-120V-40-HZ OR APPROVED EQUIVALENT	120	46	LED DRIVER WITH DIMMING, PROVIDE WITH R445, CAT 6 CONNECTION FOR DAISY-CHAIN DMX 512	LED, 3200 LUMENS, 3000K, 40" FLOOD	RECESSED FLANGE. PROVIDE CEILING HANGERS AND ADDITIONAL SUPPLEMENTAL MOUNTING ACCESSORIES AS REQUIRED.
C	6" LED DOWNLIGHT, 40° VERTICAL AND FULL 360° ADJUSTMENT, HORIZONTAL ROTATION LOCKING, LOCKING VERTICAL AIMING, HEAVY DUTY POWDER COATED COLD ROLLED STEEL FRAME, INTENSE LIGHTING IHOL-6AR-L5-30-DMX-120V-40-HZ OR APPROVED EQUIVALENT	120	90	LED DRIVER WITH DIMMING, PROVIDE WITH R445, CAT 6 CONNECTION FOR DAISY-CHAIN DMX 512	LED, 6300 LUMENS, 3000K, 40" FLOOD	RECESSED FLANGE. PROVIDE CEILING HANGERS AND ADDITIONAL SUPPLEMENTAL MOUNTING ACCESSORIES AS REQUIRED.

FIXTURE 'A', 'B' AND 'C'

IHOL-6AR / IRA600
6" Gravity LED Adjustable

CEILING CUT OUT: 6 1/2"

Catalog Number	Delivered Lumens**	System Wattage**
IHOL-6ARM130 / IRA600H2	1100lm @ 3000K	13W
IHOL-6ARM230 / IRA600H2	1900lm @ 3000K	25W
IHOL-6ARL120 / IRA600H2	2500lm @ 3000K	35W
IHOL-6ARL230 / IRA600H2	3200lm @ 3000K	40W
IHOL-6ARL330 / IRA600H2	4300lm @ 3000K	49W
IHOL-6ARL430 / IRA600H2	5200lm @ 3000K	75W
IHOL-6ARL530 / IRA600H2	6200lm @ 3000K	90W

* Delivered lumens subject to vary depending on CCT, CRI and optic selection.
 ** System Wattage include driver and LED Module consumption.

FEATURES

- 40° vertical and full 360° adjustment
- Precise center beam optics
- Horizontal rotation locking
- Locking vertical aiming

LED LIGHT ENGINE

- 19W, 25W, 35W, 40W, 49W, 75W and 90W
- 82 CRI & 2700K, 3000K, 3500K, 4000K
- 92 CRI available in 2700K & 3000K
- 3 Step MacAdam (5 SDCM)
- Rated life of 50,000 hours L70 based on LED testing per ILM-80-08 and projected values using RESNA TWE1-11

ELECTRICAL SYSTEM (120V OR 277V)

- Power factor > 0.95 @ 0.92
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.
- Active thermal management on 60W, 75W, 90W models with quiet < 250BA operation.

FRAME CONSTRUCTION

- Constructed from 1/8 gauge and 10 gauge heavy duty powder coated cold rolled steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling.

OPTICS

- 14" Spot, 20" Spot, 30" Narrow Flood, 40" Flood and 50" Wide Flood
- Optics and filter media are field interchangeable

REFLECTOR

- Specification grade reflector with 1.5mm thickness. Reflector available in clear, haze or white finish. Contact factory for other colors. Architectural, discrete polished seal flange standard. Optional pointed white flange is available.

INSTALLATION

- The luminaire is Type Non-IC. Insulation must be kept at a minimum of 1" away from fixture. Accommodates up to 1 1/4" ceiling thickness. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joint bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Max. ambient temperature: 121°F (50°C).

EMERGENCY BACKUP

- Emergency driver operates LED load of up to 70 Watts at a nominal 1400 lumens for a minimum of 90 minutes. Remote test switch. Requires above ceiling access.

ACCESSORIES

- Luminaire accommodates ITI filter media. Factory installed.

LISTING / WARRANTY

- ETL Listed to US and Canadian standards for damp locations
- 10-Year Intense LED Limited Warranty
- ENERGY STAR® Qualified

JOB NAME / **CATALOG NUMBER**

NOTES / **TYPE**

GRAVITY™

Housing Specification:
Example: IHOL-6ARL530-010-48-EM

Series
6" Gravity LED Adjustable IHOL-6AR

LED LIGHT ENGINE

1100lm / 13W	M1
1900lm / 25W	M2
2500lm / 35W	L1
3200lm / 40W	L2
4300lm / 49W	L3
5200lm / 75W	L4
6200lm / 90W	L5

CCT / CRI

2700K / 82 CRI	27
2700K / 92 CRI	27*
3000K / 82 CRI	30
3000K / 92 CRI	30*
3500K / 82 CRI	35
4000K / 82 CRI	40

DIMMING

Non-Dimming	blank
0-10V Dimming 10%	-D10
0-10V Dimming 1%	-D101
edgeLED 0-10V 1%	-ED10V1*
edgeLED 0-10V 0.1%	-ED10V0.1*
Lotux EcoSystem 1%	-LOT*
Lotux 3-Wire Hi-Lumen 1%	-L0T1*
edgeLED DALI 1%	-EDALI1*
edgeLED DALI 0.1%	-EDALI0.1*
DMX512 1%	-DMX

VOLTAGE

120V	blank
277V	27

OPTIC

14" Spot	-14"
20" Spot	-20"
30" Narrow Flood	-30"
40" Flood	-40"
50" Wide Flood	-50"

ACCESSORIES

Emergency Backup	-EM
C-Channel Bar Hangers	-100
Flat Bar Hangers	-1200
Wood Joint Bar Hangers	-1400

Notes:

- Energy Star (1-15 packages / 82 CRI - 3000K, 4100K only / Clear Reflector Opt)
- edgeLED dimming available with M1, M2, L1 & L2
- Lotux® dimming available with M1, M2, L1 & L2
- 14" Optic available in M1, M2, L1 & L2
- 10" Spot, 30" Narrow Flood, L3, L4, L5 does not accept filter media accessories
- Consult factory for lead times
- Luminaire will accommodate ITI filter media accessory. Factory installed

Intense Lighting, LLC | 3348 E. La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com

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CONSTRUCTION DOCUMENTS

LUMINAIRE SCHEDULE AND CUT SHEET

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CHECKED	RCA
DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	E0.2

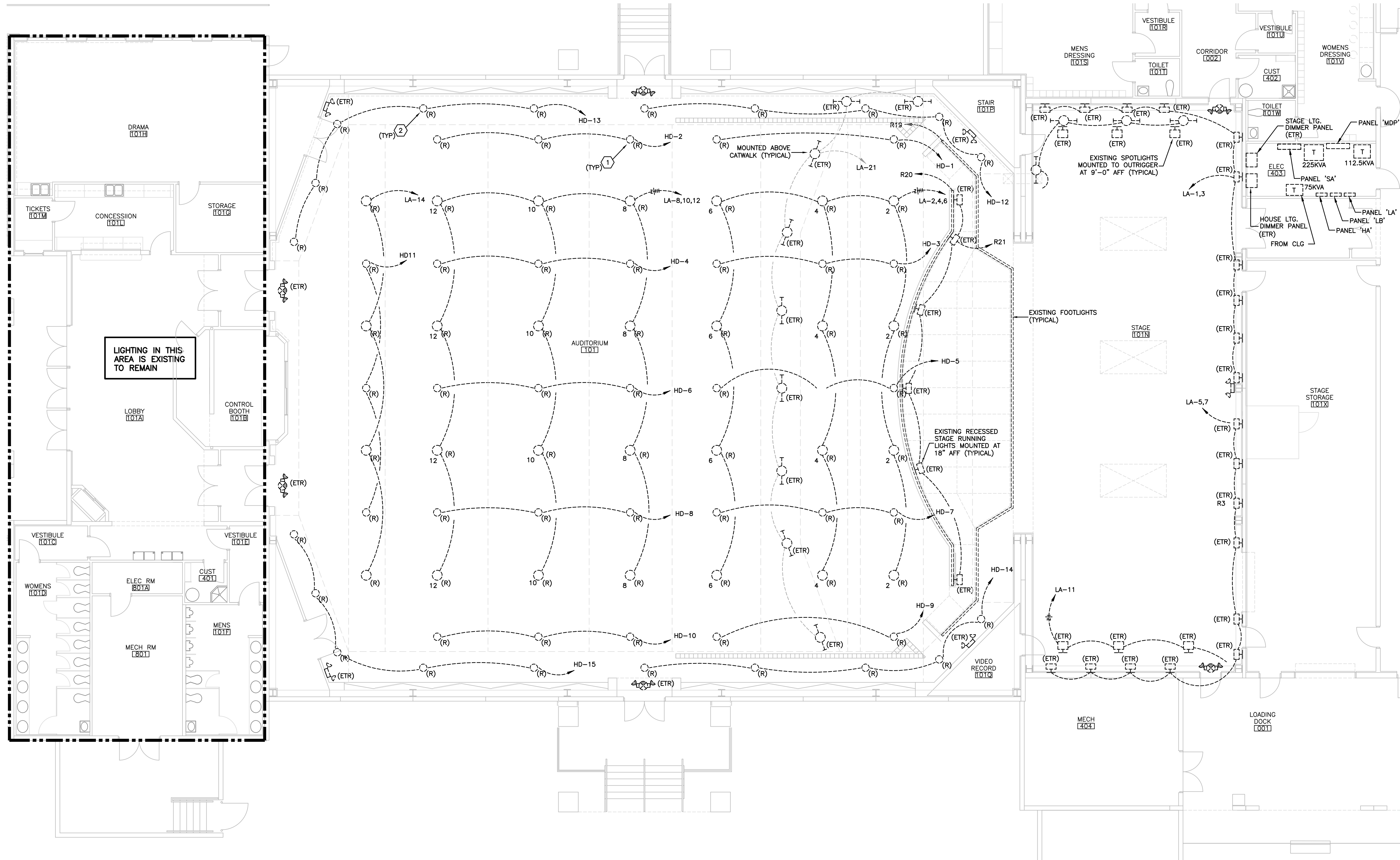
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DRAWING NOTES:

- ① REMOVE EXISTING HOUSE LIGHTING LUMINAIRE AND REPLACE WITH THE NEW LUMINAIRE. A PORTION OF THE EXISTING CEILING SHALL BE REMOVED AS NECESSARY TO REMOVE THE EXISTING LUMINAIRE AND GAIN ACCESS TO THE POWER CIRCUIT AND ACCESS TO SUPPORT STRUCTURE FOR THE NEW WORK. PROTECT ALL REMAINING CEILING AREAS AND ALL EXISTING DEVICES IN THE CEILING.
- ② REMOVE EXISTING HOUSE LIGHTING LUMINAIRE LOCATED IN THE DROPPED SOFFIT AREA, AND REPLACE WITH THE NEW LUMINAIRE. A PORTION OF THE EXISTING CEILING SHALL BE REMOVED AS NECESSARY TO REMOVE THE EXISTING LUMINAIRE AND GAIN ACCESS TO THE POWER CIRCUIT AND ACCESS TO SUPPORT STRUCTURE FOR THE NEW WORK. PROTECT ALL REMAINING CEILING AREAS AND ALL EXISTING DEVICES IN THE CEILING.


DEMOLITION GENERAL NOTES:


- 1. THIS DRAWING IS INTENDED TO INDICATE THE EXISTING SYSTEMS AND BOXES. THE INTENT IS FOR LIMITED SELECTIVE DEMOLITION. ALL OTHER DEVICES AND SYSTEMS ARE TO REMAIN.
- 2. SPLICE AND EXTEND CIRCUITS AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING LUMINAIRES AND OTHER EQUIPMENT WHICH IS TO REMAIN. VOICE/DATA CABLING SHALL NOT BE SPLICED.
- 3. DASHED FIXTURES INDICATE EXISTING DEVICES INDICATED WITH (R) ARE TO BE REMOVED. IF NOT INDICATED WITH (R), THE DEVICE IS EXISTING TO REMAIN.



LIGHTING DEMOLITION PLAN – AUDITORIUM
 SCALE: 1/8"=1'-0"

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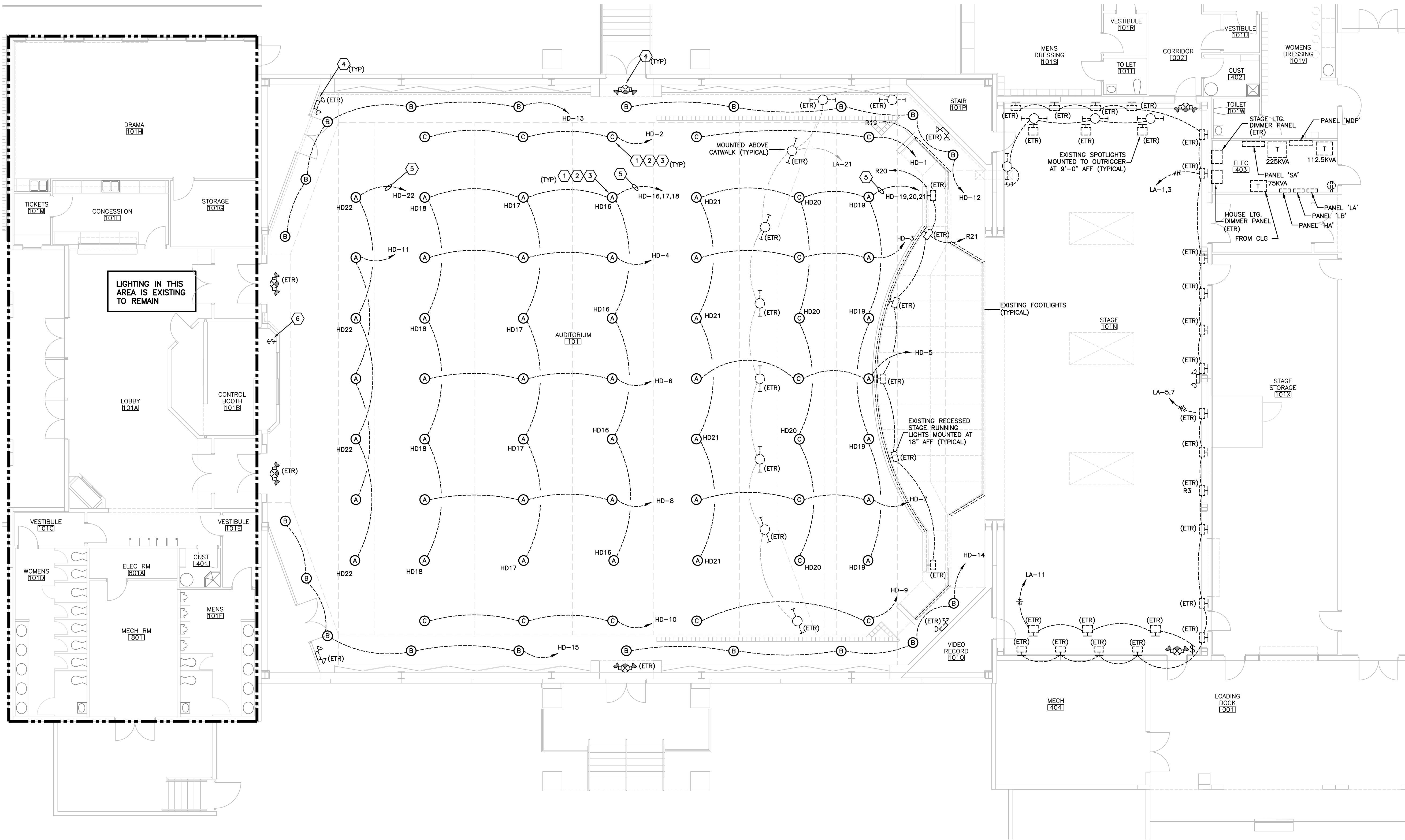

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CONSTRUCTION DOCUMENTS
LIGHTING DEMOLITION PLAN – AUDITORIUM

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AGI PROJECT	16020
SHEET	E1.0

ROBERT C. ANSTON, P.E. 40858
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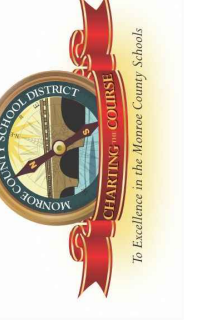


LIGHTING PLAN - HOUSE LIGHTING
 SCALE: 1/8"=1'-0"

DRAWING NOTES:

- 1 PROVIDE NEW HOUSE LIGHTING LUMINAIRE PER THE LUMINAIRE SCHEDULE. EXTEND THE EXISTING POWER CIRCUIT AS NECESSARY AND MAKE ALL CONNECTIONS TO THE NEW LUMINAIRE. PROVIDE SUPPORT TO STRUCTURE AS NEEDED TO SECURE THE LUMINAIRE.
- 2 PROVIDE ALL NEW CATEGORY 6 DMX CONTROL CABLE TO EACH LUMINAIRE FROM AUX RACK 1 IN THE DIMMER ROOM (5-101F). REFER TO SHEET TL1.3 FOR MORE REQUIREMENTS.
- 3 PROVIDE ALL REQUIRED REPAIRS TO THE CEILINGS TO PATCH THE OPENINGS FOR THE NEW LUMINAIRE. CEILING REPAIRS SHALL BE MADE SUCH THAT THE CEILINGS LOOK NEW AND THERE ARE NO NOTICEABLE BLEMISHES OR AREAS THAT DO NOT MATCH THE SURROUNDING CEILING AREAS. FLOORS AND WALLS SHALL BE PROTECTED AND REPAIRED WHERE DAMAGED. REFER TO ADDITIONAL SCOPE OF WORK NOTE #5, SHEET E0.1.
- 4 EXISTING EXIT SIGNS AND EMERGENCY LIGHTING SHALL REMAIN AND BE PROTECTED. ENSURE POWER IS CONNECTED OR BATTERIES ARE DISCONNECTED IF OUTAGES ARE REQUIRED, SUCH THAT THE BATTERIES ARE MAINTAINED.
- 5 INTERCEPT EXISTING (METAL HALIDE) HOUSE LIGHTING CIRCUITS AND EXTEND TO HOUSE DIMMING PANEL (HD). CIRCUIT CAN BE INTERCEPTED ABOVE CEILING IN AUDITORIUM, IF ACCESSIBLE OR IN ELECTRICAL ROOM 403. SEE ELECTRICAL RISER DIAGRAM, SHEET E5.0 FOR ADDITIONAL INFORMATION.
- 6 DISABLE THE HID (METAL HALIDE) HOUSE LIGHTING CONTROLS AND REMOVE SWITCH. ALL HOUSE LIGHTING WILL BE DMX CONTROLLED.

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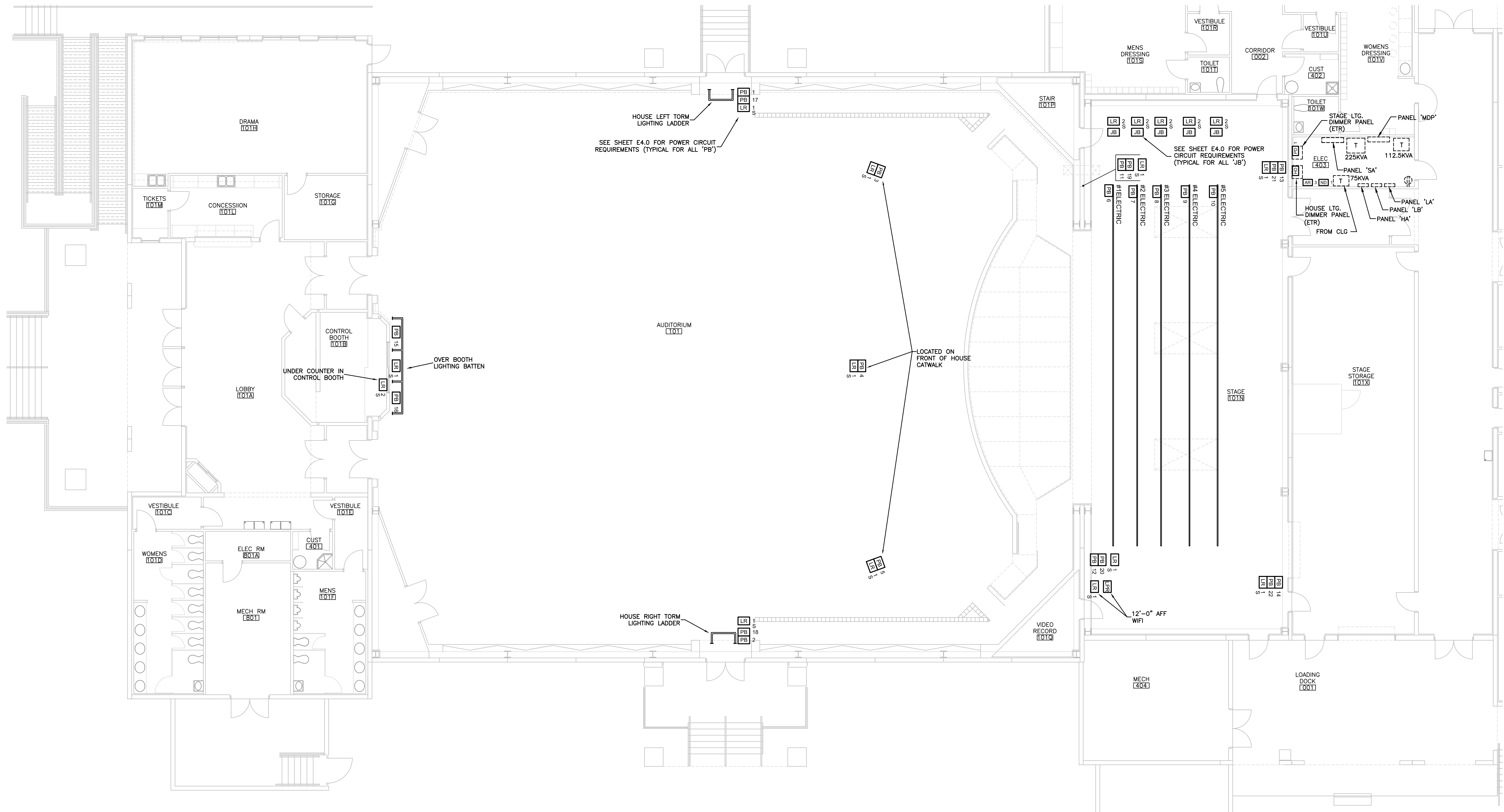
LIGHTING PLAN - HOUSE

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SCALE	AS NOTED
AGI PROJECT	16020
SHEET	E1.1

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LIGHTING PLAN – THEATRICAL
 SCALE: 1/8"=1'-0"

(SEE 'TL' LIGHTING SHEETS FOR MORE REQUIREMENTS)

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LIGHTING PLAN – THEATRICAL

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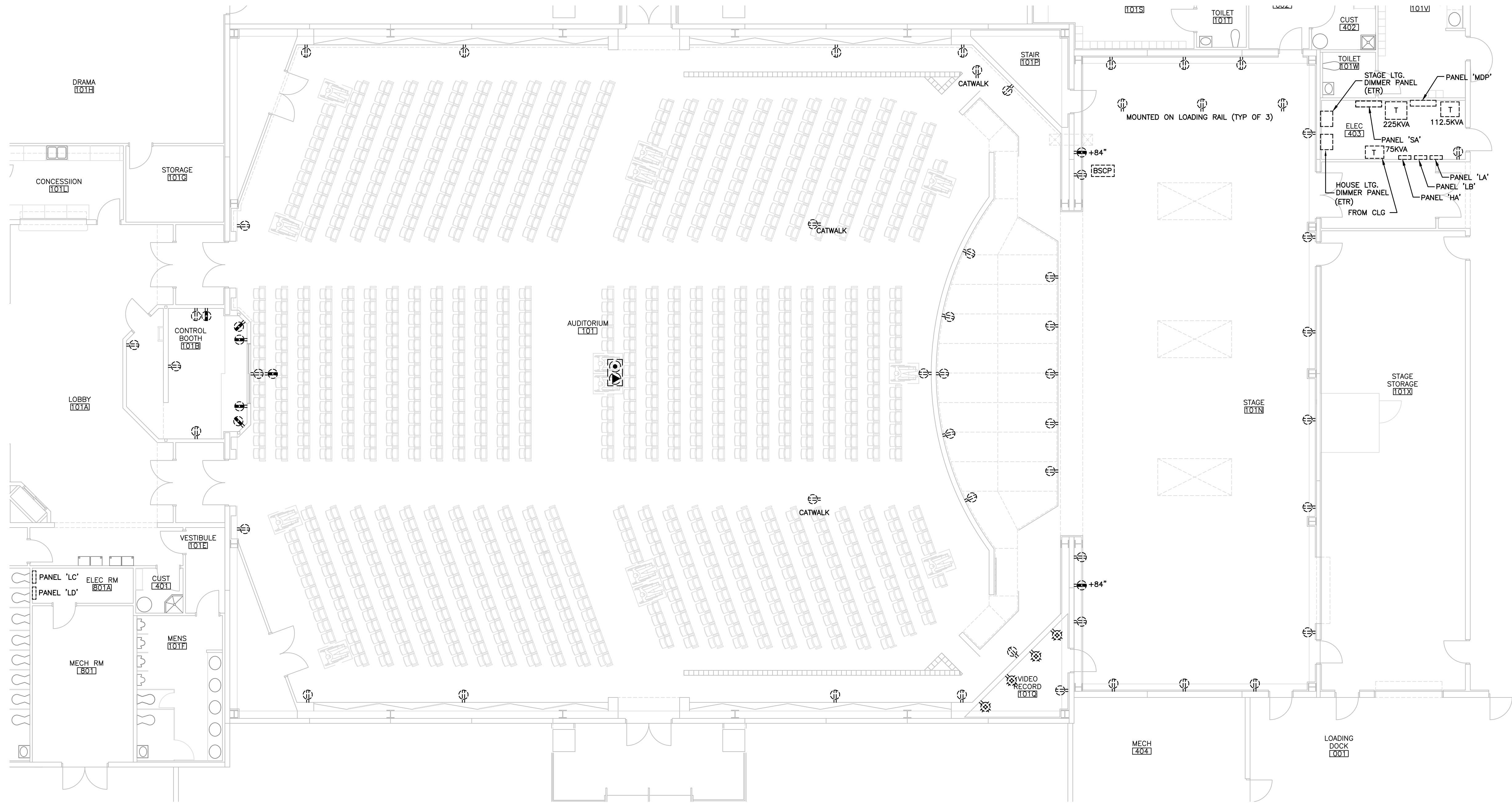
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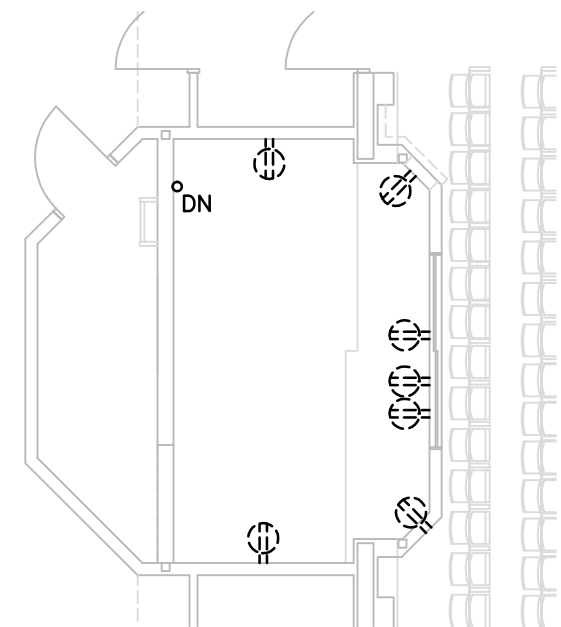
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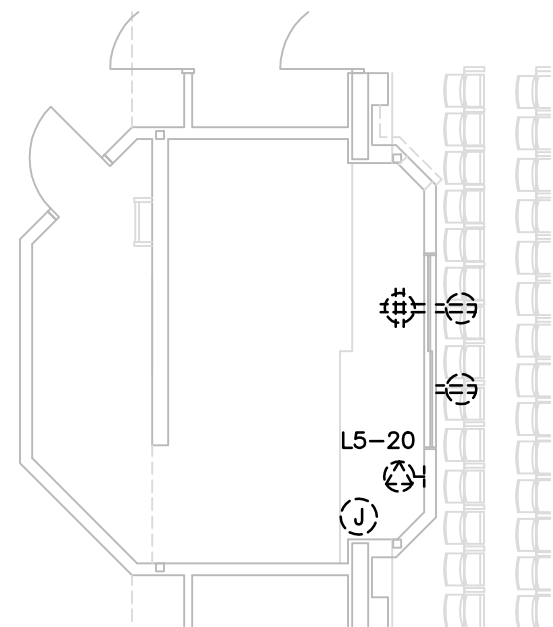
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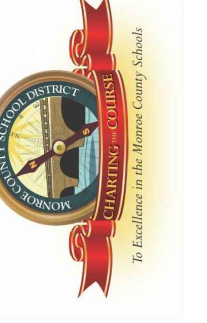
POWER DEMOLITION PLAN – AUDITORIUM
 SCALE: 1/8"=1'-0"




POWER DEMOLITION PLAN – SPOT PLATFORM
 SCALE: 1/8"=1'-0"



POWER DEMOLITION PLAN – CONTROL ROOM
 SCALE: 1/8"=1'-0"

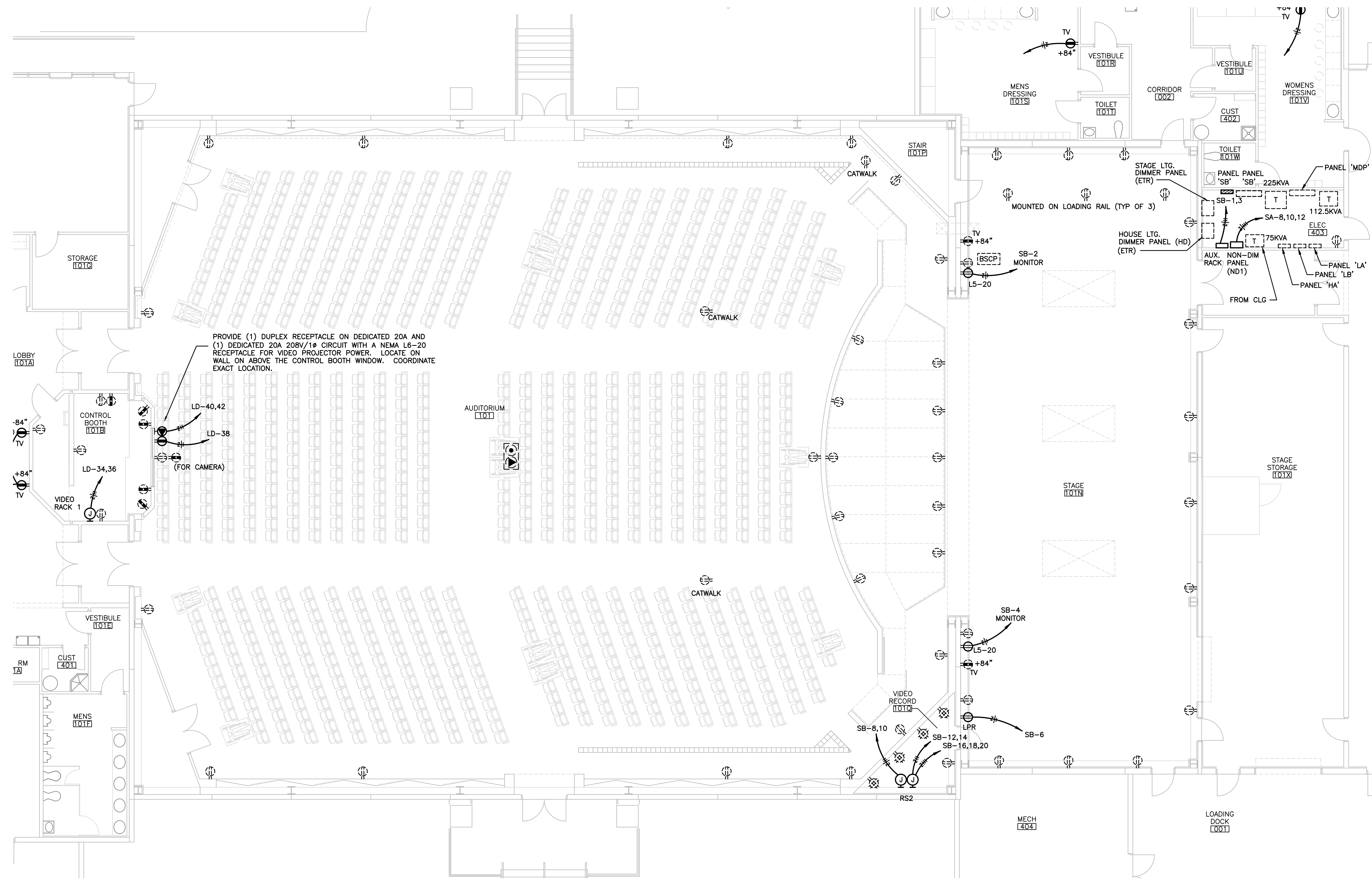

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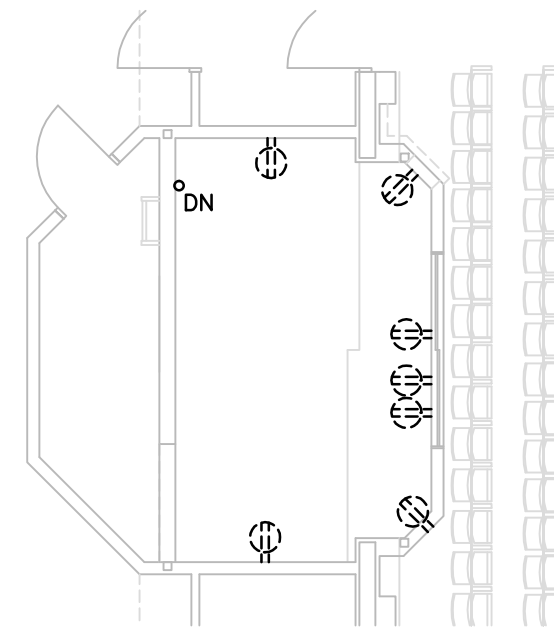
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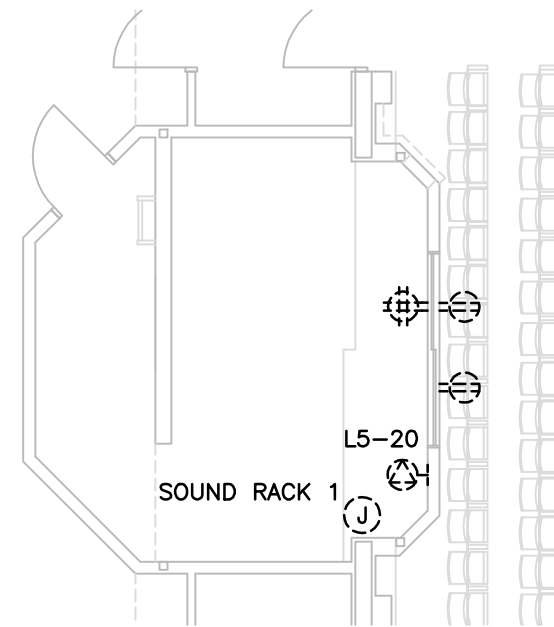
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POWER PLAN - AUDITORIUM
SCALE: 1/8"=1'-0"



POWER PLAN - SPOT PLATFORM
SCALE: 1/8"=1'-0"



POWER PLAN - CONTROL ROOM
SCALE: 1/8"=1'-0"

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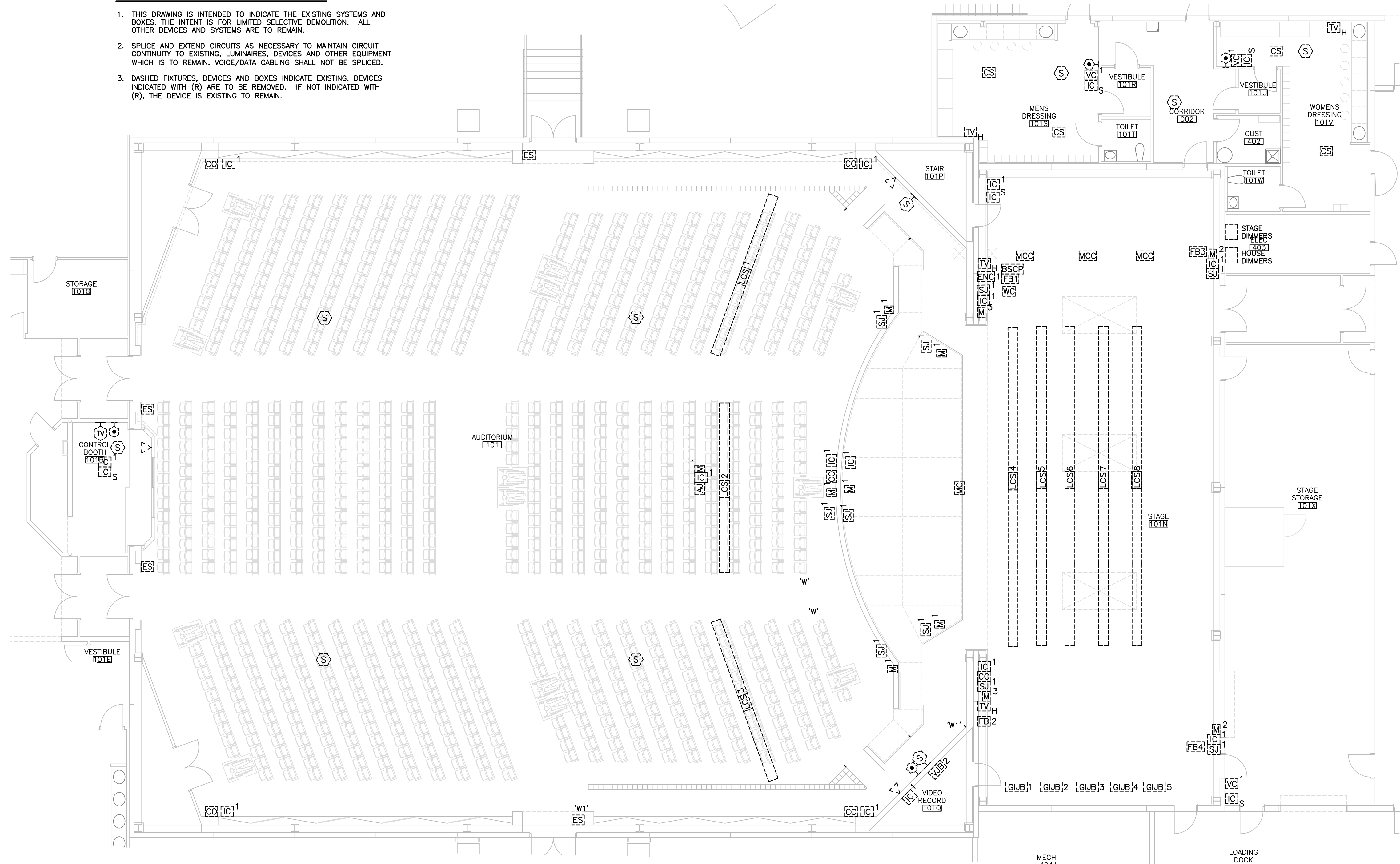
POWER PLAN - AUDITORIUM
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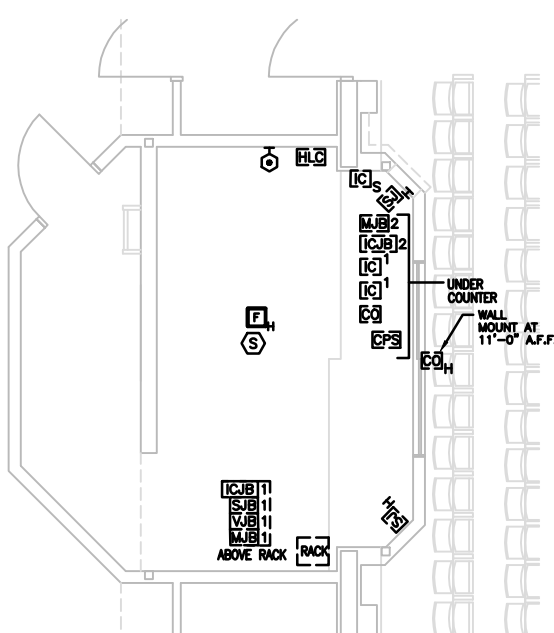
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SYSTEM DEMOLITION PLAN - AUDITORIUM
SCALE: 1/8"=1'-0"

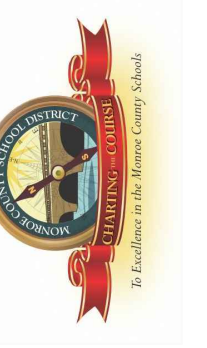


SYSTEM DEMOLITION PLAN - CONTROL ROOM
SCALE: 1/8"=1'-0"

THEATRICAL LEGEND (EXISTING DEVICES):

[AJ]	ANTENNA JACK SURFACE MOUNT 5 GANG EXTRA DEEP BOX. MOUNTED TO STAGE SIDE OF CATWALK, FACING STAGE, #6" AFF.	[FB]1	STAGE LIGHTING FLOOR BOX.	[ICB]1	INTERCOM JUNCTION BOX SURFACE MOUNT 10" x 10" x 4" SCREW COVER BOX MOUNTED ABOVE RACK.	[RFU]	REMOTE FOCUS UNIT PLUGGING STATION SURFACE MOUNT 4" SQUARE, 2 1/8" DEEP BOX, WITH SINGLE GANG TRIM RING.	[VJB]1	VIDEO JUNCTION BOX.
[BSCP]	BACK STAGE CONTROL PANEL MOUNTED @ +48" AFF.	[FB]2	STAGE LIGHTING FLOOR BOX.	[ICPB]	INTERCOM PULL BOX.	[S]X	SPEAKER JACK FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX WITH 1 1/2" EXTENSION RING. "X" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ RECEPTACLE HEIGHT.	[VJB]2	VIDEO JUNCTION BOX.
[CO]	CAMERA OUTLET FLUSH MOUNTED 12" x 12" x 6" BOX	[LC]#	STAGE LIGHTING CIRCUIT STRIP "R" DENOTES SPECIFIC NAME.	[M]X	MICROPHONE JACK FLUSH MOUNT 3 1/2" DEEP MASONRY BOX. "X" DENOTES NUMBER OF GANGS REQUIRED. MOUNTED @ RECEPTACLE HEIGHT.	[S]H	SPEAKER JACK FLUSH MOUNT 4" SQUARE EXTRA DEEP BOX, WITH SINGLE GANG TRIM RING. MOUNTED 6" BELOW FINISHED CEILING.	[VJB]3	VIDEO JUNCTION BOX.
[CO]H	FOH CAMERA OUTLET FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX WITH SINGLE GANG TRIM RING. MOUNTED ON OUTSIDE FRONT WALL OF SOUND BOOTH, AT CENTERLINE OF AUDITORIUM.	[MC]	MAIN CLUSTER BOX 8" x 8" x 4" SCREW COVER BOX.	[MJB]1	MICROPHONE JUNCTION BOX SURFACE MOUNT 12" x 12" x 6" SCREW COVER BOX MOUNTED ABOVE RACK.	[SUB]1	SPEAKER JUNCTION BOX SURFACE MOUNT 8" x 8" x 4" SCREW COVER BOX. MOUNTED ABOVE RACK.	[VJB]4	VIDEO JUNCTION BOX.
[CPS]1	STAGE LIGHTING CONSOLE PLUGGING STATION @ GANG 3 1/2" DEEP MASONRY BOX. MOUNTED UNDER COUNTER IN CONTROL BOOTH.	[HLC]1	HOUSE LIGHTING CONTROLLER MOUNTED @ SWITCH HEIGHT.	[MJB]2	MICROPHONE JUNCTION BOX SURFACE MOUNT 12" x 12" x 6" SCREW COVER BOX MOUNTED UNDER COUNTER.	[SPB]	SPEAKER PULL BOX.	[VPB]	VIDEO PULL BOX
[CS]	CEILING SPEAKER.	[HLP]	HOUSE LIGHTING PROCESSOR	[MPB]	MICROPHONE PULL BOX	[TV]	TV JACK 4" SQUARE, 2 1/8" DEEP WITH 1 1/2" DEEP SINGLE GANG TRIM RING AND COVER PLATE. MTD @ RECEPTACLE HEIGHT.	[WC]	WINCH CONTROL
[ENC]1	SMALL EVENTS SYSTEM ENCLOSURE MOUNTED @ +48" TO TOP.	[IC]X	INTERCOM JACK FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX. "X" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ RECEPTACLE HEIGHT.	[IC]S	INTERCOM SPEAKER STATION MOUNTED @ SWITCH HEIGHT.	[TV]H	TV JACK 4" SQUARE, 2 1/8" DEEP WITH 1 1/2" DEEP SINGLE GANG TRIM RING AND COVER PLATE. MOUNTED @ +88" AFF.	[MCC]	WINCH MOTOR
[ES]	HOUSE LIGHTING ENTRY STATION MOUNTED @ SWITCH HEIGHT.	[IC]W	INTERCOM WALL STATION MOUNTED @ SWITCH HEIGHT.	[EB]#	STAGE LIGHTING CIRCUIT STRIP "R" DENOTES SPECIFIC NAME.	[VC]X	VOLUME CONTROL FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX. "X" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ SWITCH HEIGHT.		

REVISIONS	BY


Key West High School
Theatrical Lighting and Sound Improvements
 2100 Flagler Avenue
 Key West, FL 33040
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

SYSTEM DEMOLITION PLAN - AUDITORIUM

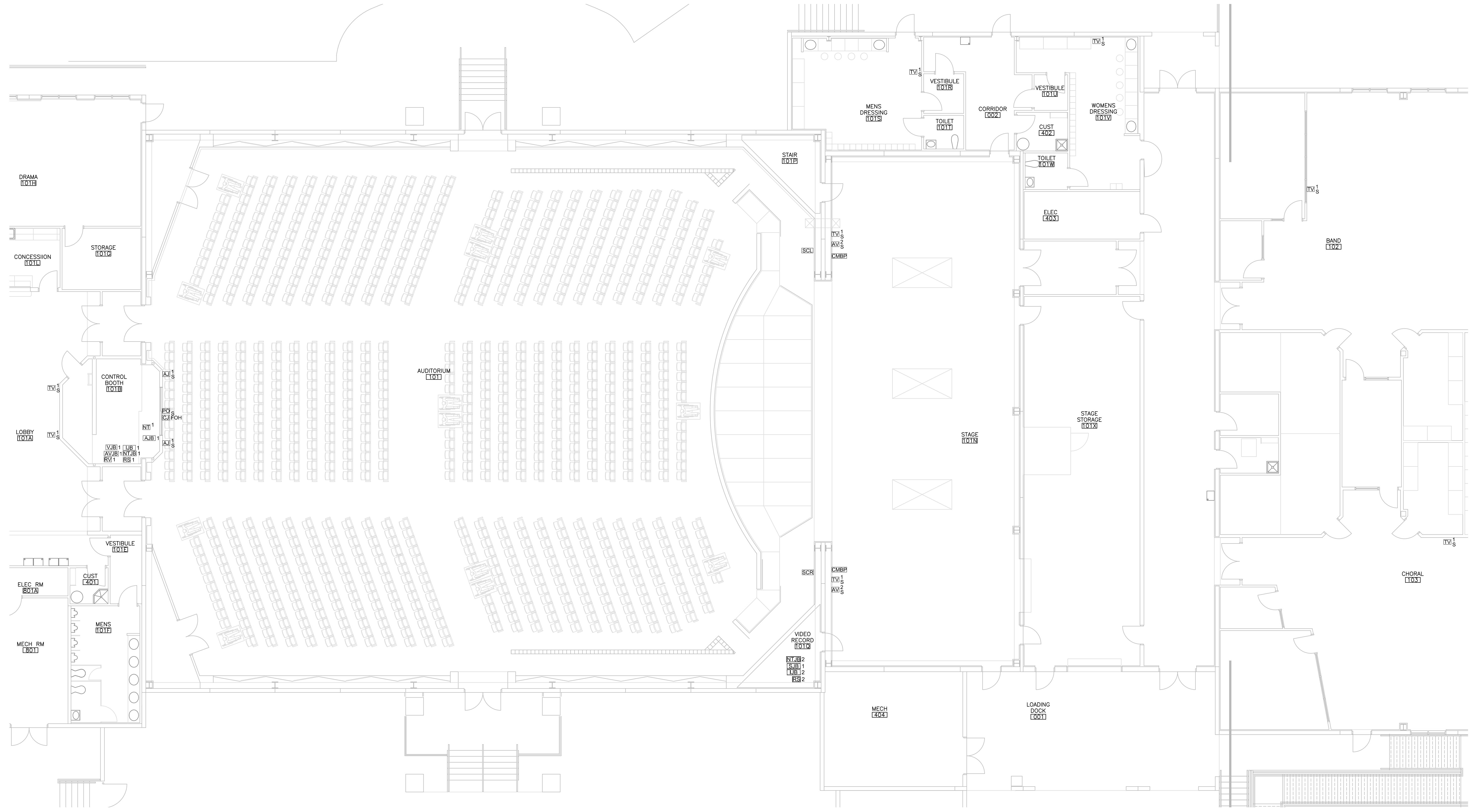
AGI
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1115 West Harbor Avenue, Tampa, FL 33622 (813) 364-9199
 Email: agi@anston-greenlees.com Florida Engineering License Number 6974

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DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	

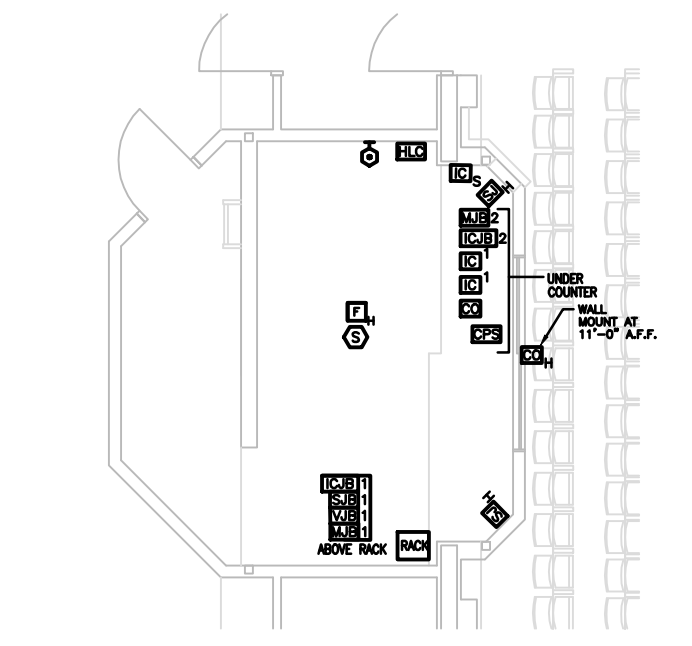
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 Plotted by: tm Feb 17, 2017 4:59pm

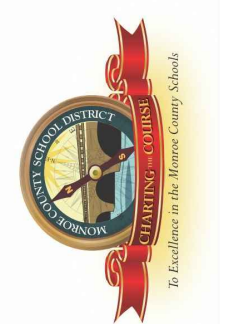


SYSTEM PLAN – AUDITORIUM
 SCALE: 1/8"=1'-0"



SYSTEM PLAN – CONTROL ROOM
 SCALE: 1/8"=1'-0"

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Key West High School
Theatrical Lighting and Sound Improvements
 2100 Flagler Avenue
 Key West, FL 33040
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

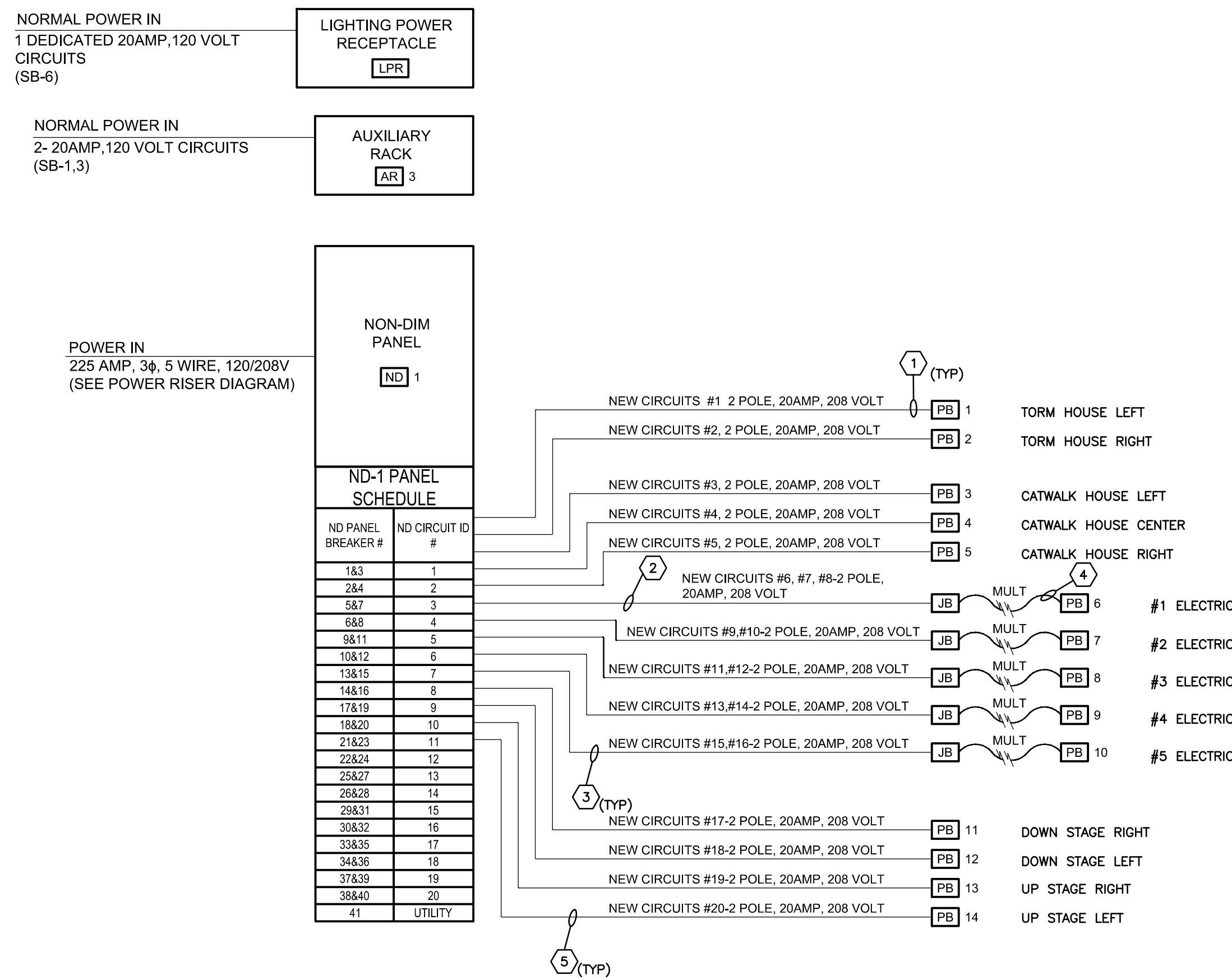
SYSTEM PLAN – AUDITORIUM

AGI
Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
 1113 West Harbor Avenue, Tampa, FL 33622 (813) 264-3919
 Email: agi@anston-greenlee.com Florida Engineering License Number 6769

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DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	

E3.1

ROBERT C. ANSTON, P.E. 40856
 TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS
 AND THE PROJECT MANUAL ARE COMPLETE AND
 COMPLY WITH THE 2014 FLORIDA BUILDING CODE



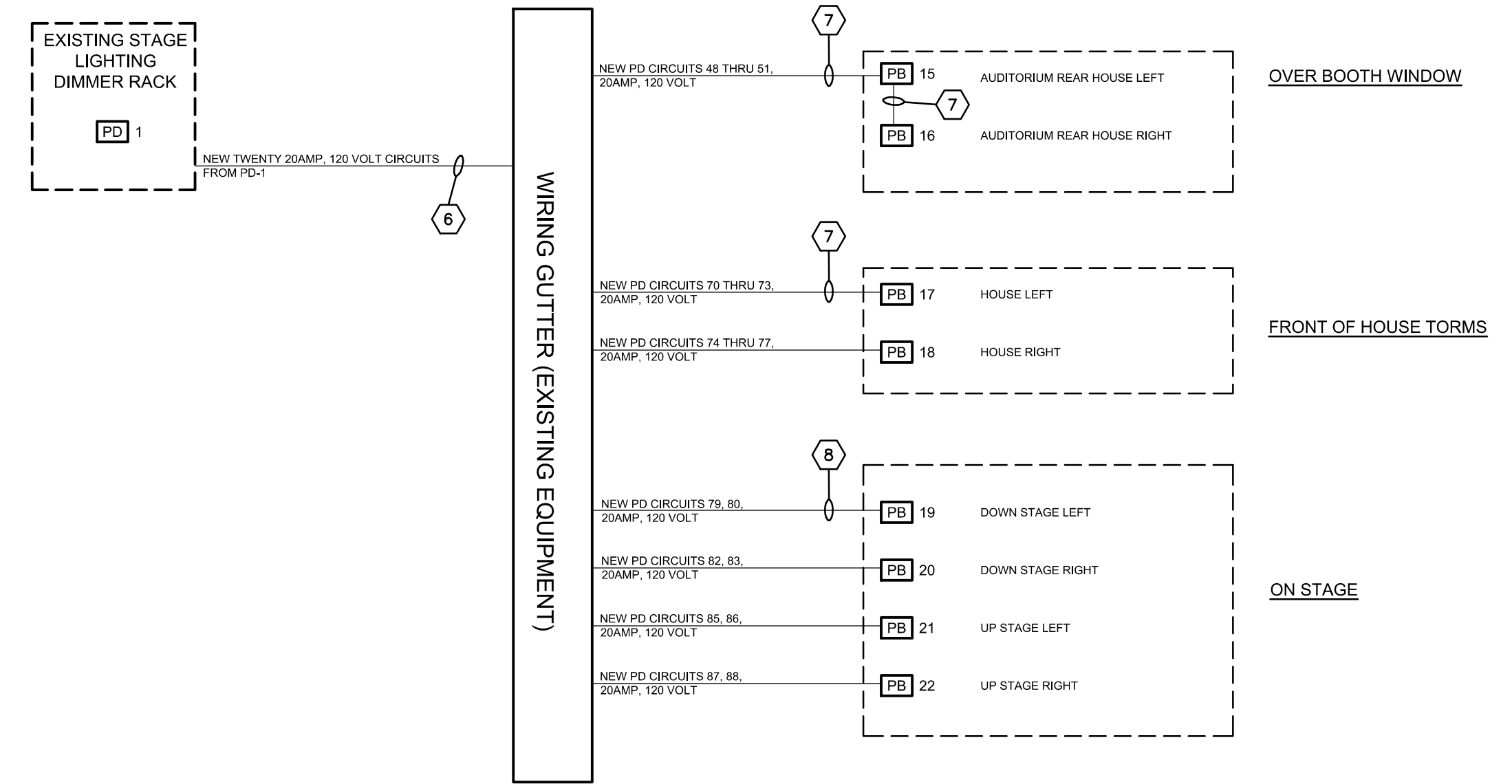
POWER AND NON-DIM CIRCUIT DISTRIBUTION RISER DIAGRAM
NOT TO SCALE

DRAWING NOTES:

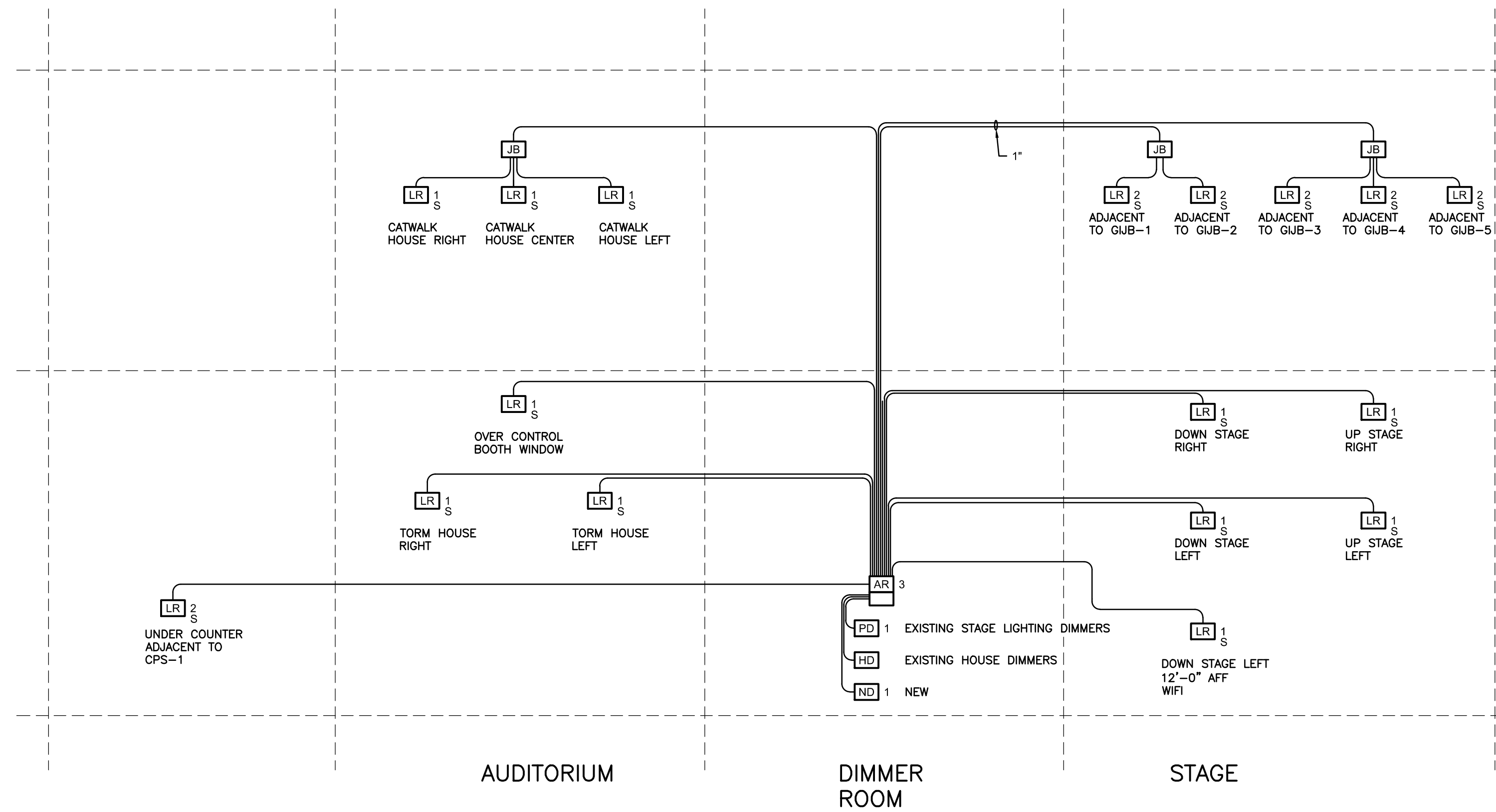
- 1 3/4" C.; 2 #10, 1 #10 GROUND. TYPICAL FOR PB1 THROUGH PB5.
- 2 1" C.; 6 #10, 1 #10 GROUND
- 3 3/4" C.; 4 #10, 1 #10 GROUND. TYPICAL FOR JB ELECTRIC #2 THROUGH #5.
- 4 PROVIDE MULTI-CABLE CONNECTION BETWEEN JB AND ELECTRICS (ALL 1 THROUGH 5). TYPE SOOW, #10 AWG. GENERAL CABLE CAROL SUPER VU-TRON CAT. #09020
- 5 3/4" C.; 2 #10, 1 #10 GROUND. TYPICAL FOR PB11 THROUGH PB14.
- 6 WIRE GUTTER IS ADJACENT TO STAGE DIMMER RACK. DERATING NOT REQUIRED. PROVIDE 2" C.; 20 #10, 20 #10 NEUTRAL, 7 #10 GROUND.
- 7 1" C.; 4 #10, 4 #10 NEUTRAL, 1 #10 GROUND. TYPICAL FOR PB15 THROUGH 18
- 8 3/4" C.; 2 #10, 2 #10 NEUTRAL, 1 #10 GROUND. TYPICAL FOR PB19 THROUGH 20.

GENERAL NOTES:

- 1. CIRCUITS THAT ARE RUN TO NEW LOCATIONS ARE RUN PARALLEL TO THEIR EXISTING LOCATIONS.
- 2. PROVIDE DEDICATED NEUTRALS FOR ALL 120 VOLT CIRCUITS.



NEW STAGE DIMMING CIRCUIT DISTRIBUTION RISER DIAGRAM
NOT TO SCALE



STAGE LIGHTING SYSTEM CONTROL CONDUIT RISER DIAGRAM
NOT TO SCALE

GENERAL NOTES:

- 1. ALL CONDUIT, BACK BOXES AND ENCLOSURES PROVIDED BY DIVISION 26 UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, AND CIRCUIT DISTRIBUTION DOCUMENTS FOR DETAILS.
- 3. ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
- 4. INSTALL A PULL STRING IN ALL CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.
- 5. INSTALL PLASTIC BUSHINGS ON ALL CONDUIT ENDS.

REVISIONS	BY

Key West High School
Theatrical Lighting and Sound Improvements
2100 Flagler Avenue
Key West, FL 33040
Monroe County School District
241 Trumbo Rd.
Key West, Florida 33040

CONSTRUCTION DOCUMENTS

SYSTEMS DETAILS

Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Harbor Avenue, Tampa, FL 33622 (813) 964-9119
www.anston-greenlee.com Florida Engineering License Number 6076

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AGI PROJECT	16020
SHEET	E4.0

E4.0

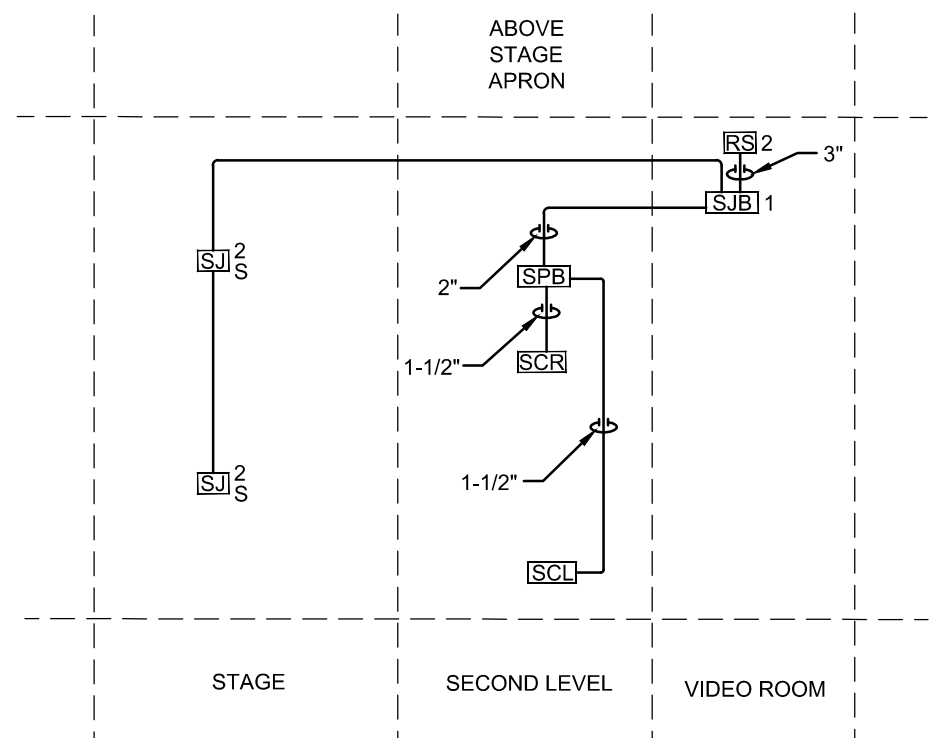
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS
AND THE PROJECT MANUAL ARE COMPLETE AND
COMPLY WITH THE 2014 FLORIDA BUILDING CODE

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Plotted by: tm Feb 17, 2017 4:59pm

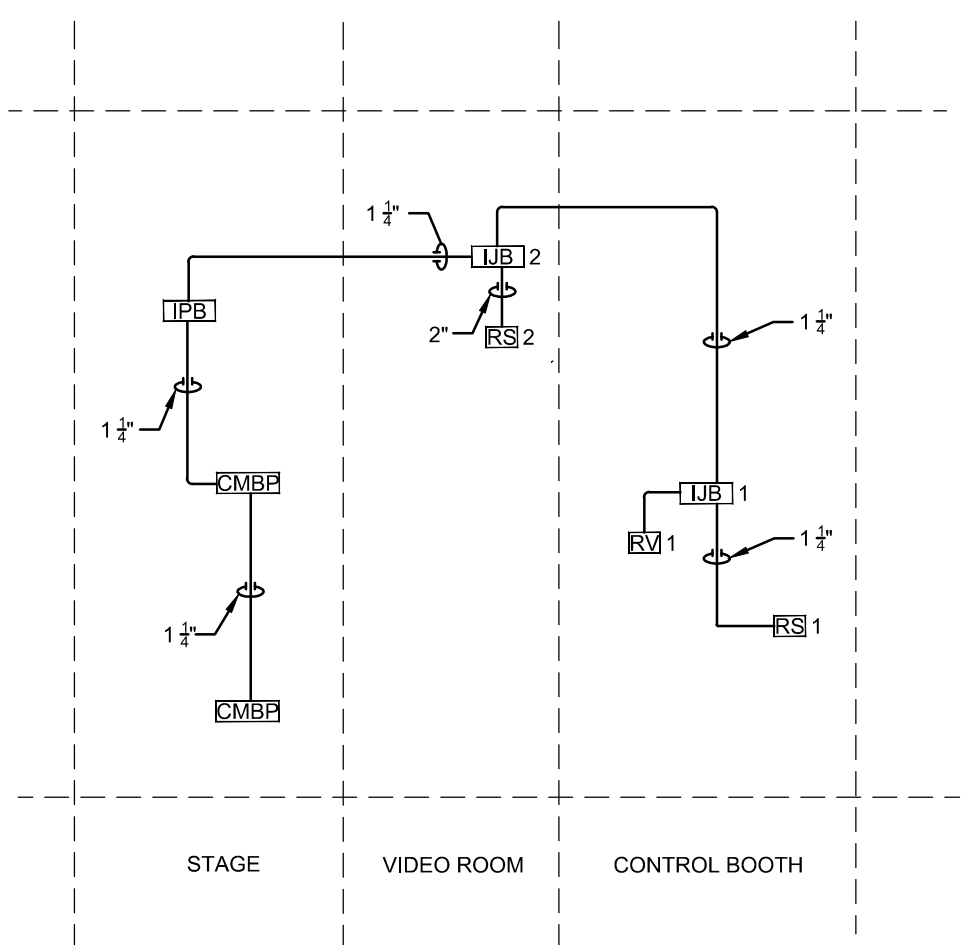
AV SYSTEM POWER:

- 1. EQUIPMENT RACK POWER: RACK POWER SHALL TERMINATE IN A JBOX WITHIN RACK. THIS JBOX AND ALL INTERNAL RACK POWER WIRING WILL BE PROVIDED BY THE SYSTEM CONTRACTOR. ALL OTHER WIRING, CONDUIT, ETC SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
- 1.1. SOUND RACK 2 – TWO DEDICATED 20A CIRCUITS AND 5 DEDICATED 30 AMP CIRCUITS.
- 1.2. VIDEO RACK 1 – TWO DEDICATED 20A CIRCUITS.
- 2. ONSTAGE MONITOR POWER:
- 2.1. MONITOR POWER – TWO DEDICATED 20A CIRCUITS TERMINATED WITH NEMA LS-20 RECEPTACLES. ONE CIRCUIT PER LOCATION. LOCATIONS ARE DOWN STAGE LEFT AND DOWNSTAGE RIGHT NEXT TO CMBP.
- 3. VIDEO POWER:
- 3.1. VIDEO PROJECTOR – ONE DEDICATED 20A 120V CIRCUIT WITH A DUPLEX RECEPTACLE AND 1 DEDICATED 20A 208V (SINGLE PHASE) CIRCUIT WITH A NEMA L6-20 RECEPTACLE AT THE VIDEO PROJECTOR LOCATION PO.
- 3.2. FOH CAMERA POWER – ONE DEDICATED 20A CIRCUIT WITH A DUPLEX RECEPTACLE AT THE FRONT OF HOUSE CAMERA LOCATION C/FOH.
- 3.3. TVS – A DUPLEX RECEPTACLE LOCATED AT EACH OF THE 8 TV LOCATIONS.

REVISIONS	BY



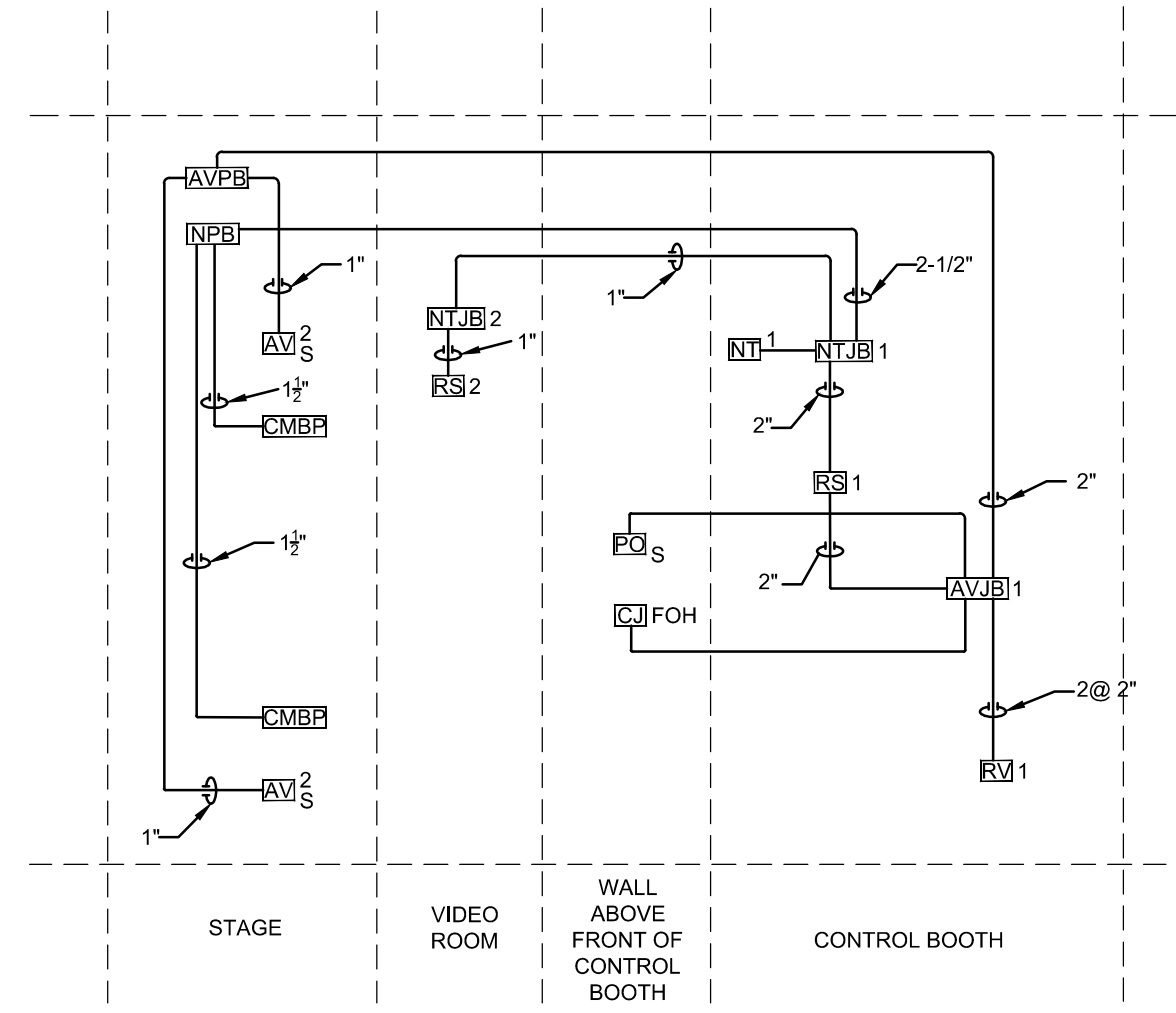
- NOTES: SPEAKER SYSTEMS RISERS**
- 1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 - 3. ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
 - 4. INSTALL BUSHINGS ON ALL EXPOSED CONDUIT ENDS.
 - 5. INSTALL PULL STRING IN EACH CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.



- NOTES: INTERCOM / LINE LEVEL**
- 1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 - 3. ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
 - 4. INSTALL BUSHINGS ON ALL EXPOSED CONDUIT ENDS.
 - 5. INSTALL PULL STRING IN EACH CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.

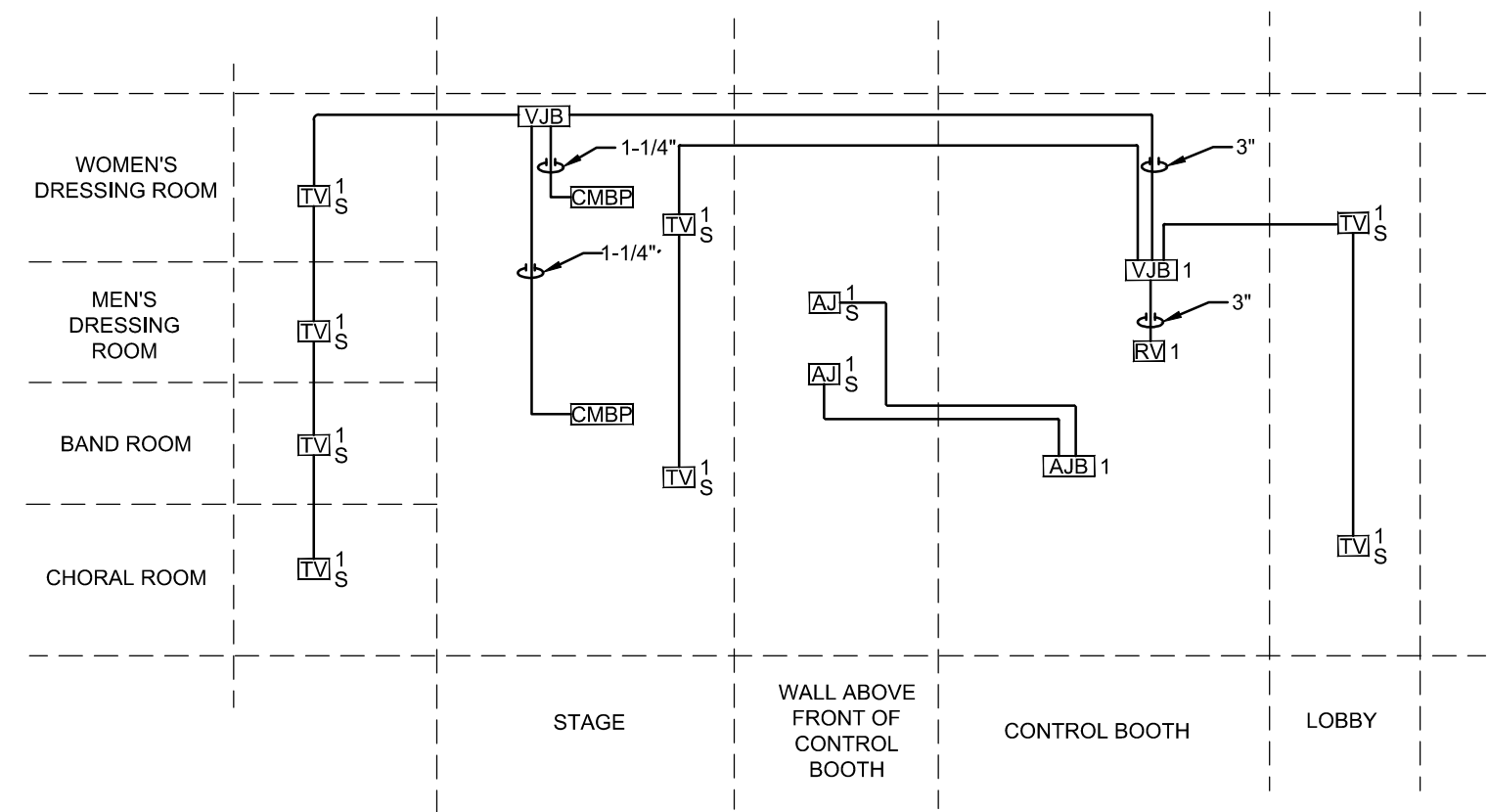
SPEAKER SYSTEM RACEWAY RISER DIAGRAM NOT TO SCALE

INTERCOM/LINE LEVEL RACEWAY RISER DIAGRAM NOT TO SCALE



- NOTES: AUDIO AND VIDEO NETWORK SYSTEMS**
- 1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 - 3. ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
 - 4. INSTALL BUSHINGS ON ALL EXPOSED CONDUIT ENDS.
 - 5. INSTALL PULL STRING IN EACH CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.

AUDIO AND VIDEO NETWORK SYSTEMS RACEWAY RISER DIAGRAM NOT TO SCALE



- NOTES: ANALOG VIDEO AND ANTENNA SYSTEMS**
- 1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 - 3. ALL CONDUIT IS 3/4" UNLESS NOTED OTHERWISE.
 - 4. INSTALL BUSHINGS ON ALL EXPOSED CONDUIT ENDS.
 - 5. INSTALL PULL STRING IN EACH CONDUIT. FLAG EACH PULL STRING WITH UNIQUE CONDUIT NUMBER.

ANALOG VIDEO AND ANTENNA SYSTEM RACEWAY RISER DIAGRAM NOT TO SCALE

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Key West, Florida 33040

CONSTRUCTION DOCUMENTS

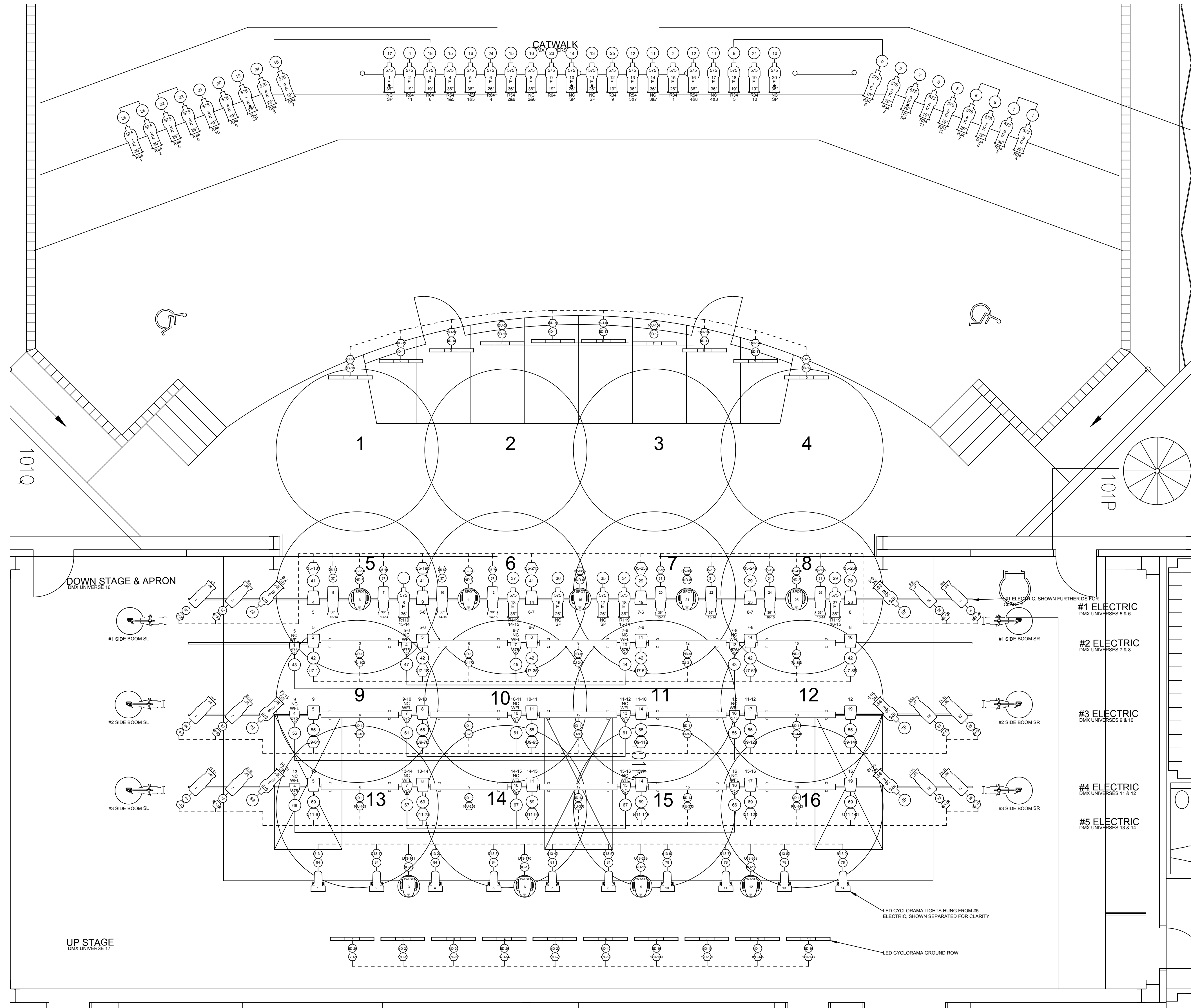
SYSTEMS DETAILS

Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Harbor Avenue, Tampa, FL 33622 (813) 964-6919
Tampa, FL 33601
Florida Engineering Business Number 6691

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DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	

E4.1

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Plotted by: tm Feb 17, 2017 - 4:59pm



STAGE LIGHTING - LIGHT PLOT

SCALE: 1/4"=1'-0"

STAGE LIGHTING LEGEND

SCALE: NA

LEGEND

QTY	SYMBOL	DESCRIPTION
AS SHOWN		10 DEGREE
AS SHOWN		14 DEGREE
AS SHOWN		19 DEGREE
AS SHOWN		26 DEGREE
AS SHOWN		36 DEGREE
AS SHOWN		50 DEGREE
AS SHOWN		LED ERS 15 CH MODE
AS SHOWN		PAR
AS SHOWN		LED PAR ZOOM TR16 / 17CH
AS SHOWN		ETC LUSTER 2 W/ CYC ATT. DIRECT MODE / 10 CH
AS SHOWN		CHAVIJET BATTEN 72 TOUR LED STRIP TR16 MODE / 18 CH
AS SHOWN		CHAVIJET 8285FC LED STRIP 5 CELL / 70 CH MODE
AS SHOWN		CHAVIJET MK 2 32 CH MODE
AS SHOWN		CHAVIJET MK 2 SINGLE MODE / 69 CH

TYPICAL

NOTES TO INSTALLER:

- UNCRATE AND LAMP ALL LIGHTING FIXTURES.
- TAKE CARE NOT TO TOUCH LAMP ENVELOPE. READ LAMP MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE PROCEEDING!
- USE MINIMUM REQUIRED LENGTH OF STAGE CABLE TO REACH DESIGNATED CIRCUIT.
- HANG EACH FIXTURE WITH COLOR AND SAFETY CABLE INSTALLED.
- FOCUS ALL FIXTURES AS PER AREA DESIGNATIONS.
- USE "TWOERS" WHERE NEEDED.
- ALL COLORS REFERENCE ROSCO LUX NUMBERS.
- UNCRATE, ASSEMBLE, AND INSTALL THE LIGHTING CONTROLLER AND ACCESSORIES IN THE CONTROL BOOTH.
- HANG ALL UNUSED EQUIPMENT ON UP STAGE PIPE BATTEN.

REVISIONS	BY

Key West High School
Theatrical Lighting and Sound Improvements
2100 Flagler Avenue
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Monroe County School District
241 Trumbo Rd.
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CONSTRUCTION DOCUMENTS

STAGE LIGHTING—LIGHT PLOT

Anston-Greenlees, Inc.
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1118 West Fisher Avenue, Tampa, FL 33627 (813) 278-1910
Ft. Lauderdale Office: (954) 239-7000
Florida Engineering Business Number 6005

AGI

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DATE
02/17/17

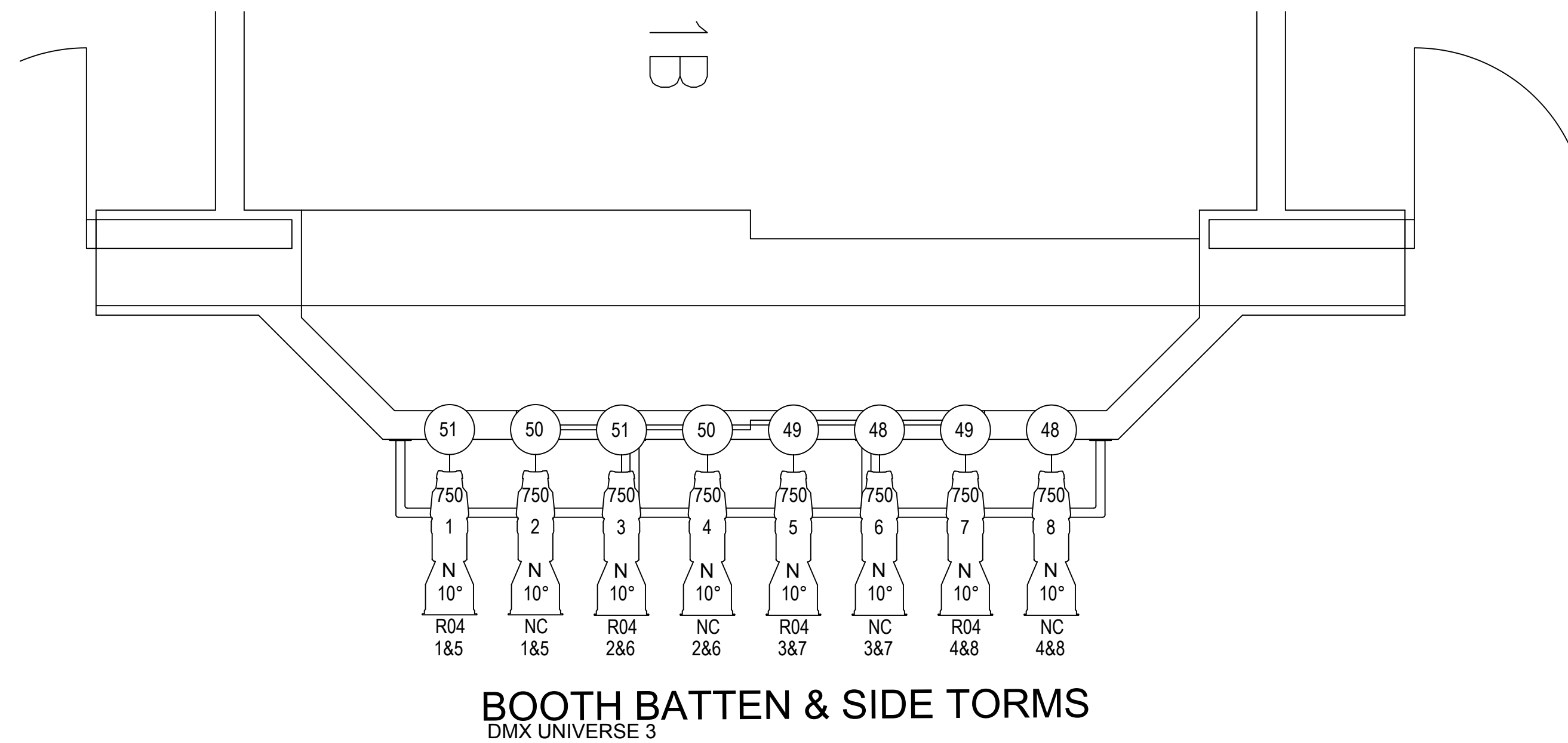
SCALE
AS NOTED

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16020

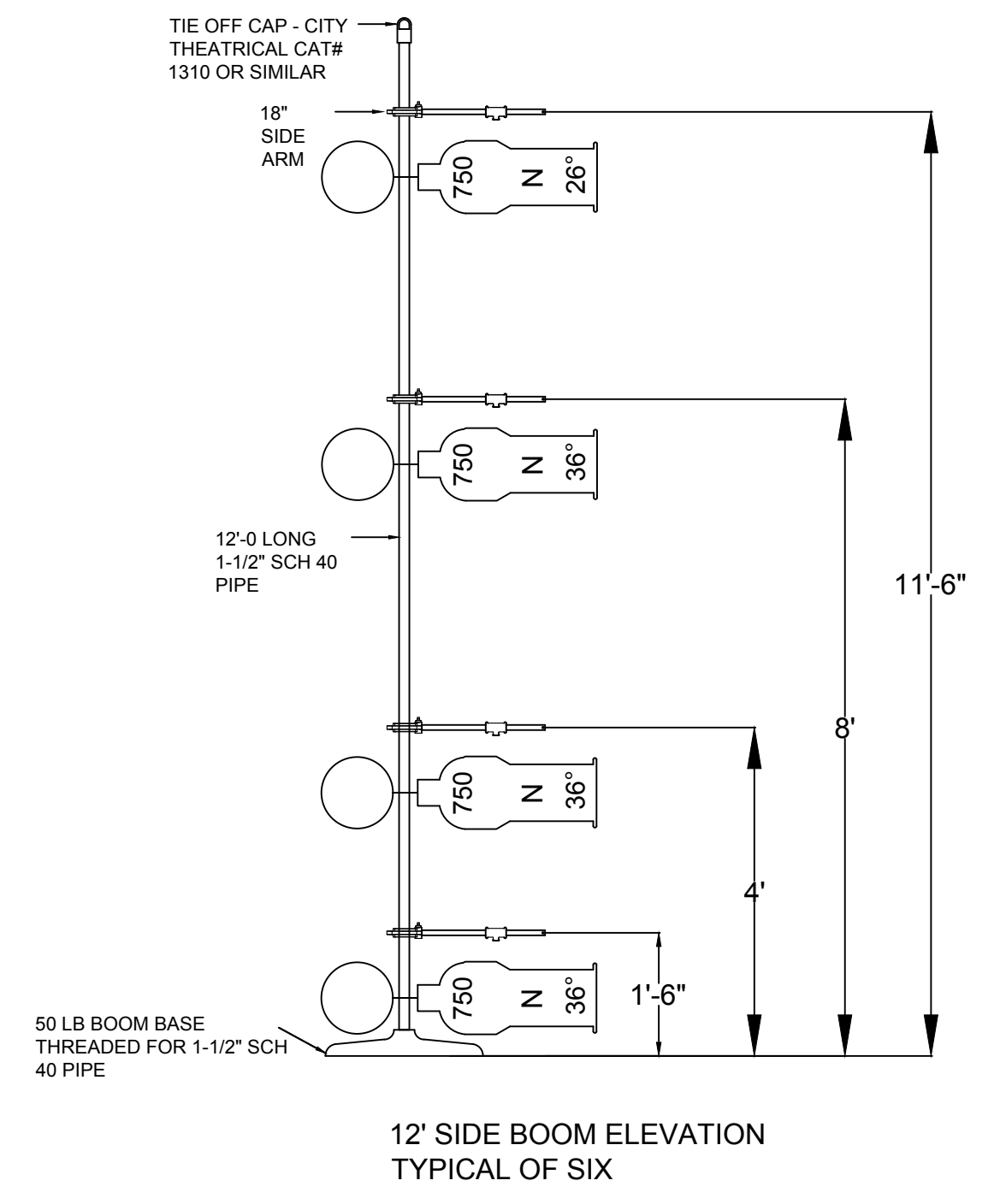
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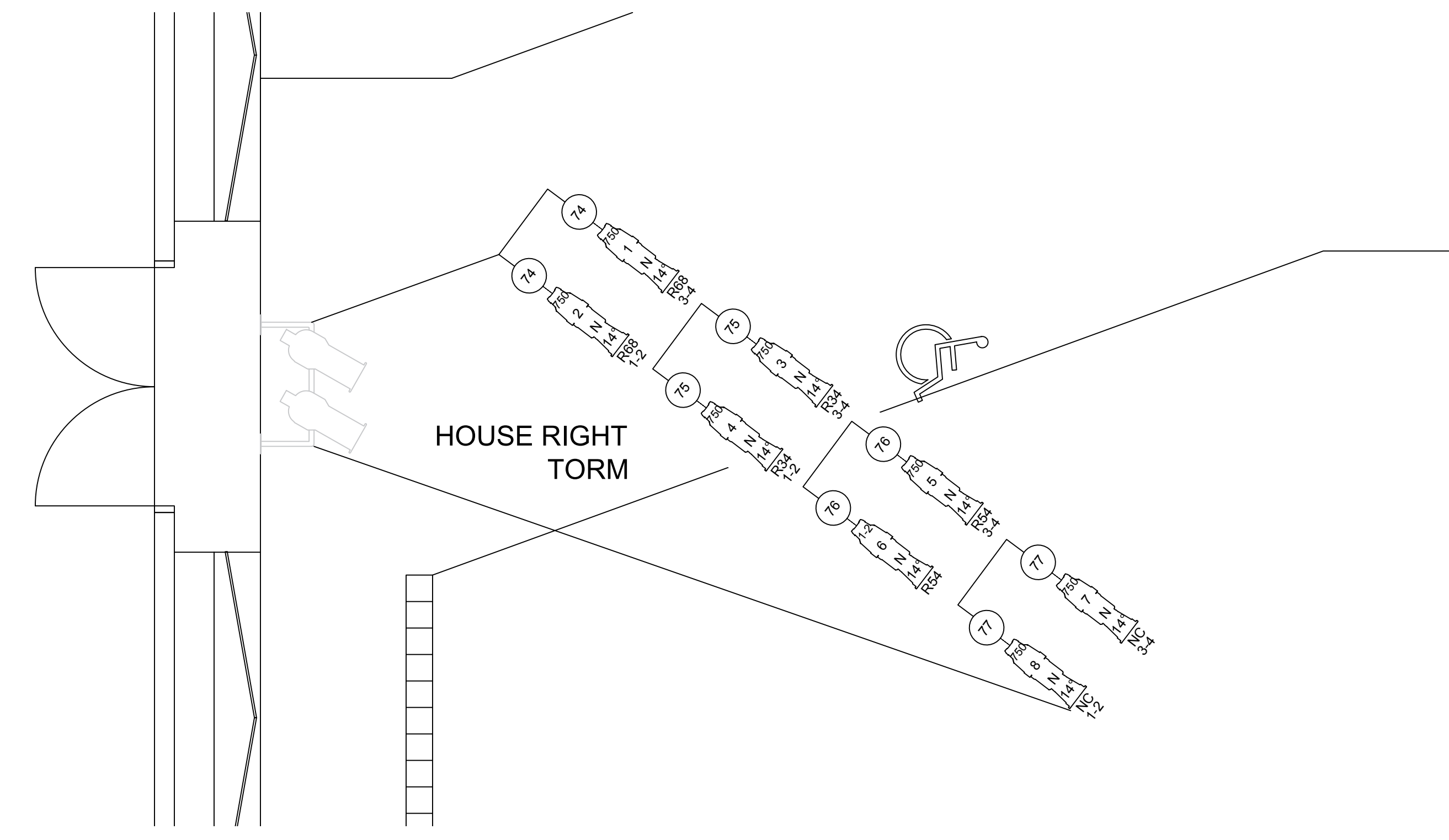
ROBERT C. ANSTON, P.E. 40858
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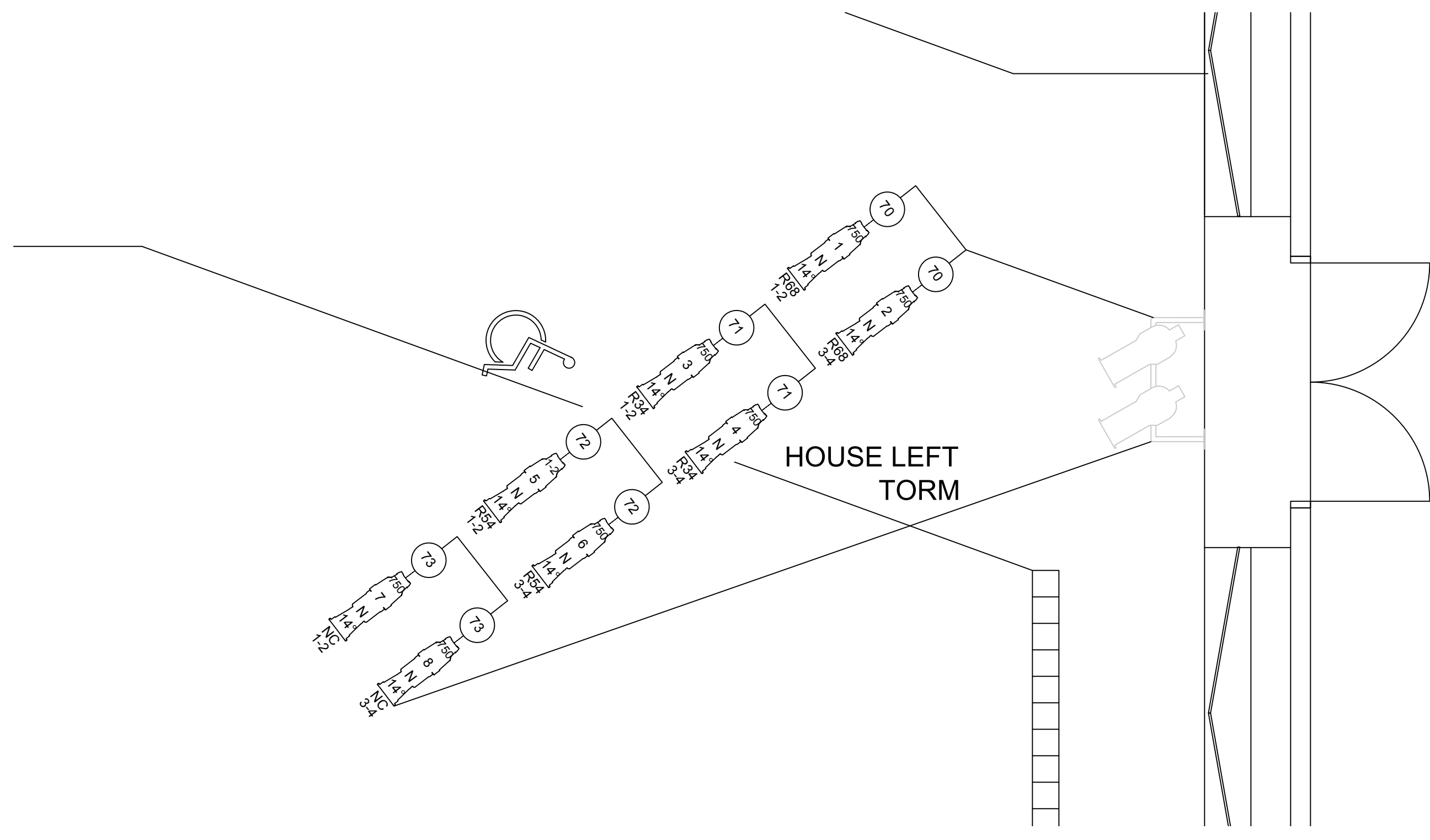
STAGE LIGHTING - OVER BOOTH BATTEN
SCALE: 1/2"=1'-0"



STAGE LIGHTING - SIDE BOM ELEVATION
SCALE: 3/8"=1'-0"

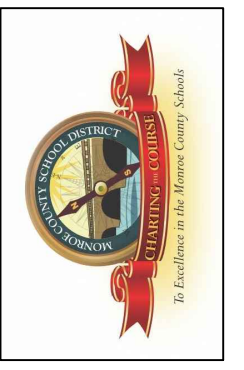


STAGE LIGHTING - HOUSE RIGHT TORM
SCALE: 3/8"=1'-0"



STAGE LIGHTING - HOUSE LEFT TORM
SCALE: 3/8"=1'-0"

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 Theatrical Lighting and Sound Improvements
 2100 Flagler Avenue
 Key West, FL 33040
Monroe County School District
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 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

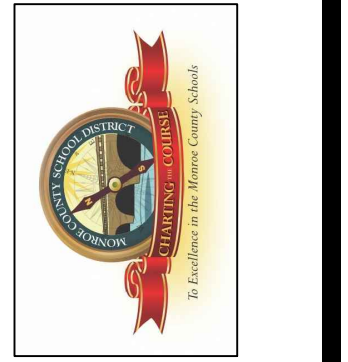
STAGE LIGHTING - LIGHT PLOT

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 Mechanical & Electrical Consulting Engineers
 1111 West Fisher Avenue, Tampa, FL 33627, (813) 279-1919
 www.ansongreenlee.com Florida Engineering Business Number 0001

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DATE 02/17/17
SCALE AS NOTED
AGI PROJECT 16020
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TL1.2

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Theatrical Lighting and Sound Improvements
 2100 Flagler Avenue
 Key West, FL 33040
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

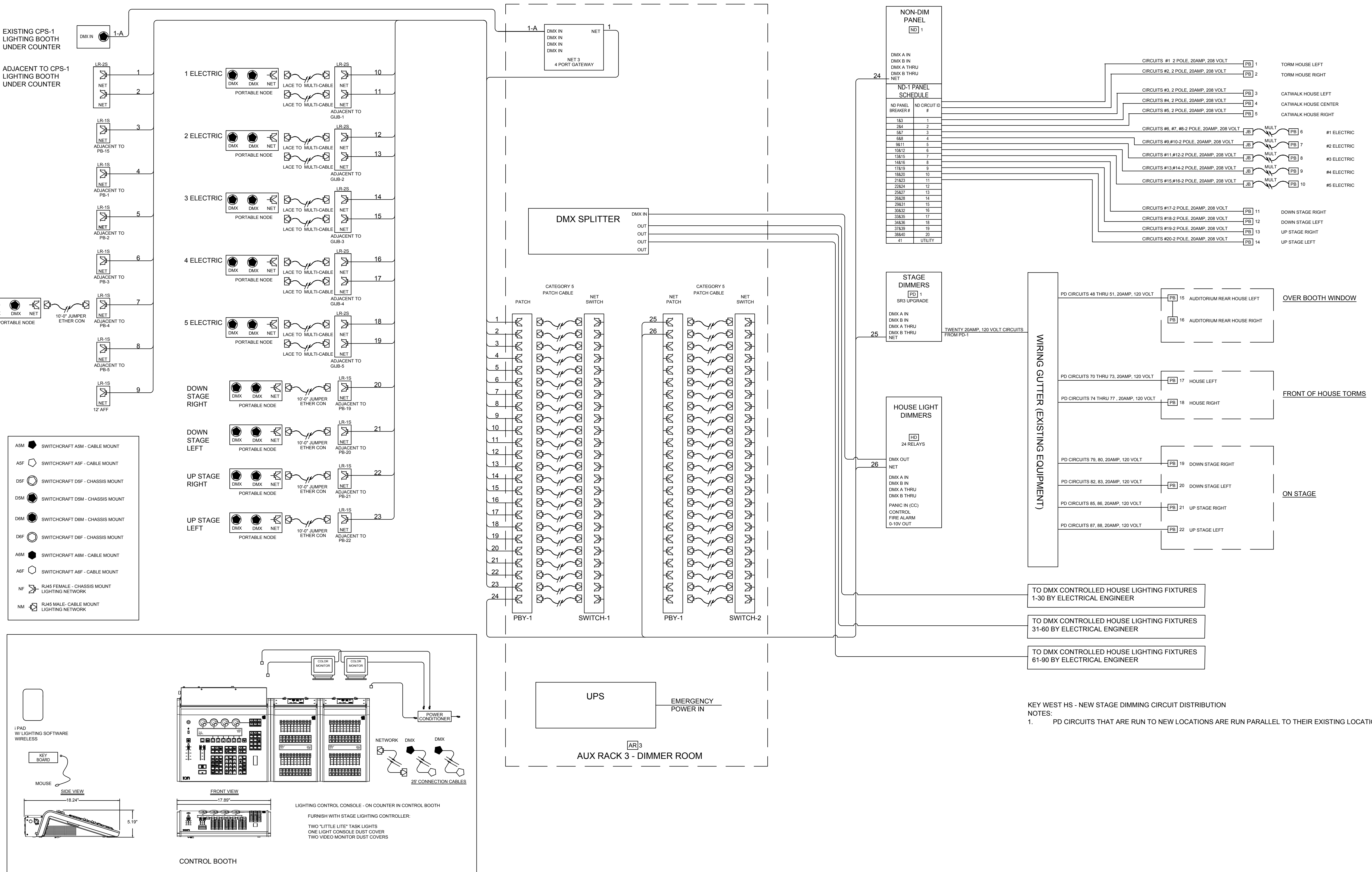
CONSTRUCTION DOCUMENTS

STAGE LIGHTING - SYSTEM ONE LINE

AGI
 Anston-Greenlee, Inc.
 Mechanical & Electrical Consulting Engineers
 1118 West Fisher Avenue, Tampa, FL 33612, (813) 776-1919
 www.ansongreenlee.com Florida Engineering Business Number 0604

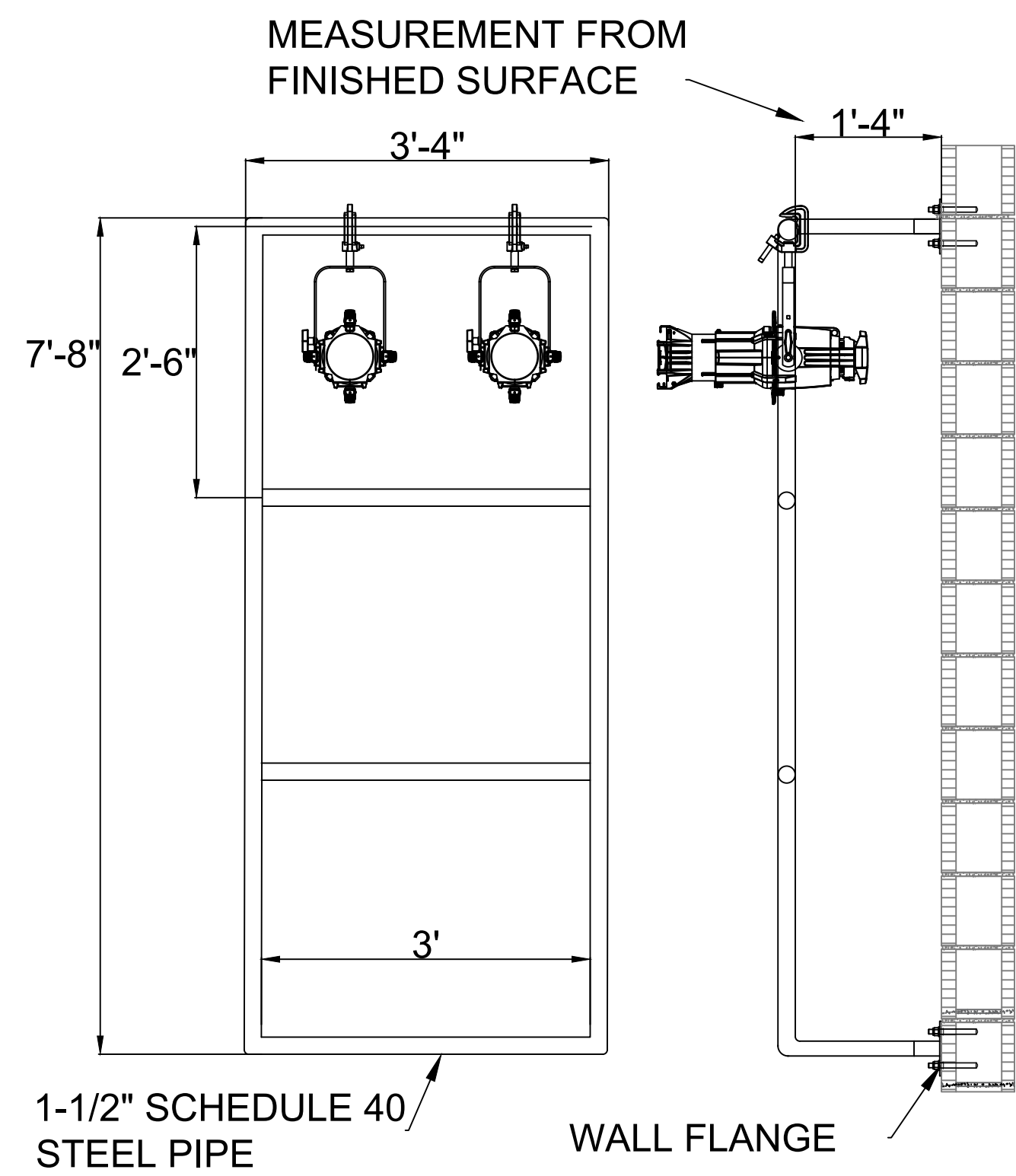
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DATE 02/17/17
SCALE AS NOTED
AGI PROJECT 16020
SHEET

TL1.3



STAGE LIGHTING - SYSTEM ONE LINE
 SCALE: NA

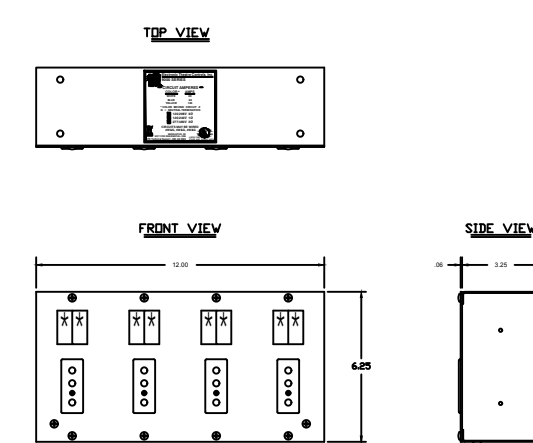
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TORM LADDER DETAIL

SCALE: 3/4"=1'-0"

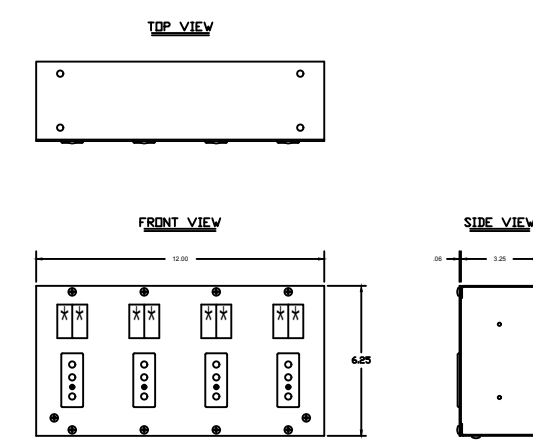
BOX	OUTLET			
	PD CIR#			
PB-19	79	79	80	80
PB-20	82	82	83	83
PB-21	85	85	86	86
PB-22	87	87	88	88



TWO CIRCUIT SURFACE MOUNT OUTLET BOX

- NOTES:
- 1.) OUTLET BOX IS Ⓢ LISTED.
 - 2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
 - 3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
 - 4.) ALL RECEPTACLES WITH PD#s SHALL HAVE 2P&G STAGE PIN CONNECTORS INSTALLED.

BOX	OUTLET			
	PD CIR#			
PB-15	48	49	50	51
PB-16	48	49	50	51
PB-17	70	71	72	73
PB-18	74	75	76	77

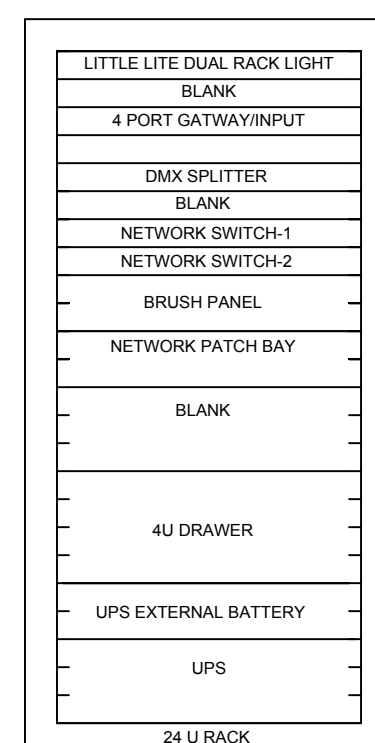


FOUR CIRCUIT SURFACE MOUNT OUTLET BOX

- NOTES:
- 1.) OUTLET BOX IS Ⓢ LISTED.
 - 2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
 - 3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
 - 4.) ALL RECEPTACLES WITH PD#s SHALL HAVE 2P&G STAGE PIN CONNECTORS INSTALLED.

PD PLUGGING BOXES

SCALE: 1-1/2"=1'-0"

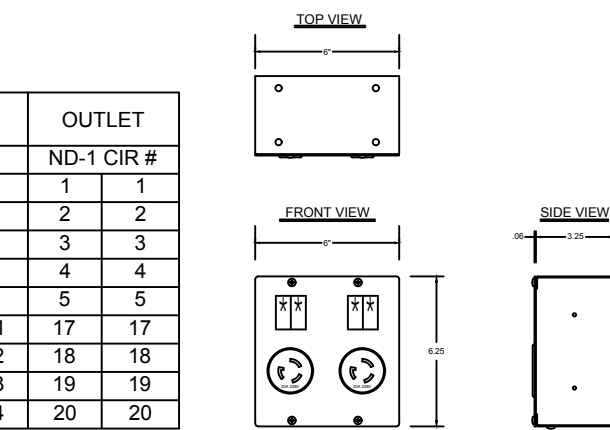


AUXILIARY RACK (AR-1)
DIMMER ROOM

AUXILIARY RACK

SCALE: 1"=1'-0"

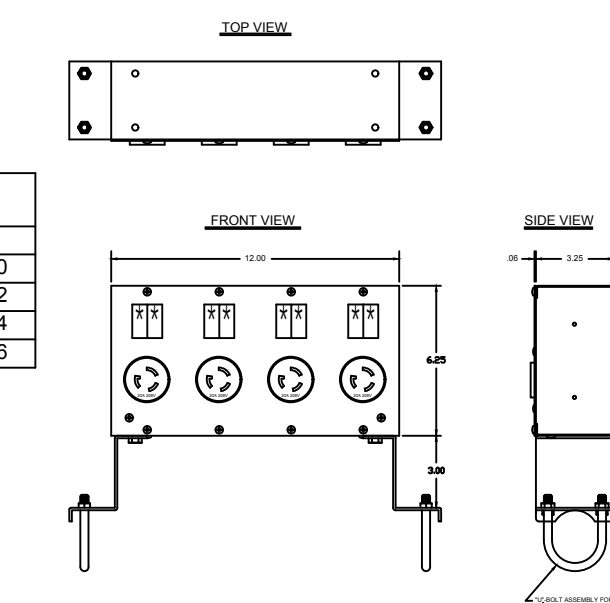
BOX	OUTLET	
	ND-1 CIR #	
PB-1	1	1
PB-2	2	2
PB-3	3	3
PB-4	4	4
PB-5	5	5
PB-11	17	17
PB-12	18	18
PB-13	19	19
PB-14	20	20



ONE CIRCUIT SURFACE MOUNT OUTLET BOX

- NOTES:
- 1.) OUTLET BOX IS Ⓢ LISTED.
 - 2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
 - 3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
 - 4.) ALL RECEPTACLES WITH ND#s (NON-DIM PANEL) SHALL HAVE L6-20 STAGE TWIST LOCK CONNECTORS INSTALLED.

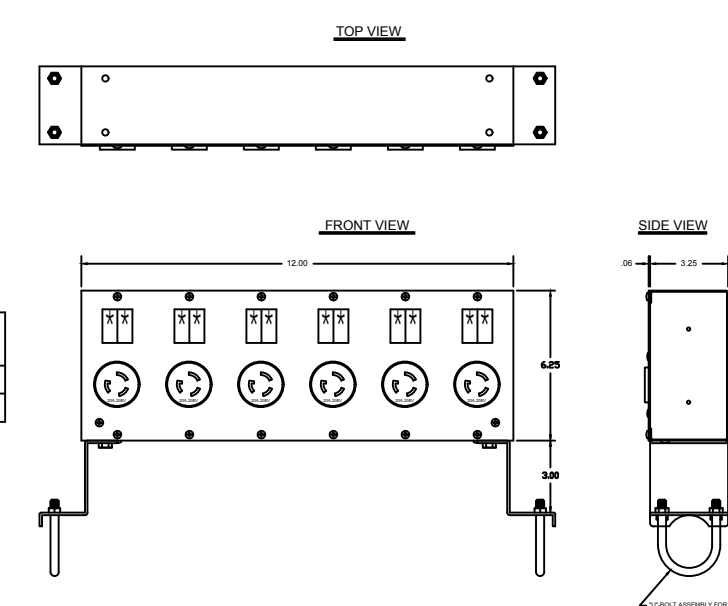
BOX	OUTLET			
	ND-1 CIR#			
PB-7	9	9	10	10
PB-8	11	11	12	12
PB-9	13	13	14	14
PB-10	15	15	16	16



TWO CIRCUIT PIPE MOUNT OUTLET BOX

- NOTES:
- 1.) OUTLET BOX IS Ⓢ LISTED.
 - 2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
 - 3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
 - 4.) ALL RECEPTACLES WITH ND#s (NON-DIM PANEL) SHALL HAVE L6-20 STAGE TWIST LOCK CONNECTORS INSTALLED.

BOX	OUTLET			
	ND-1 CIR#			
PB-6	6	6	7	7
			8	8

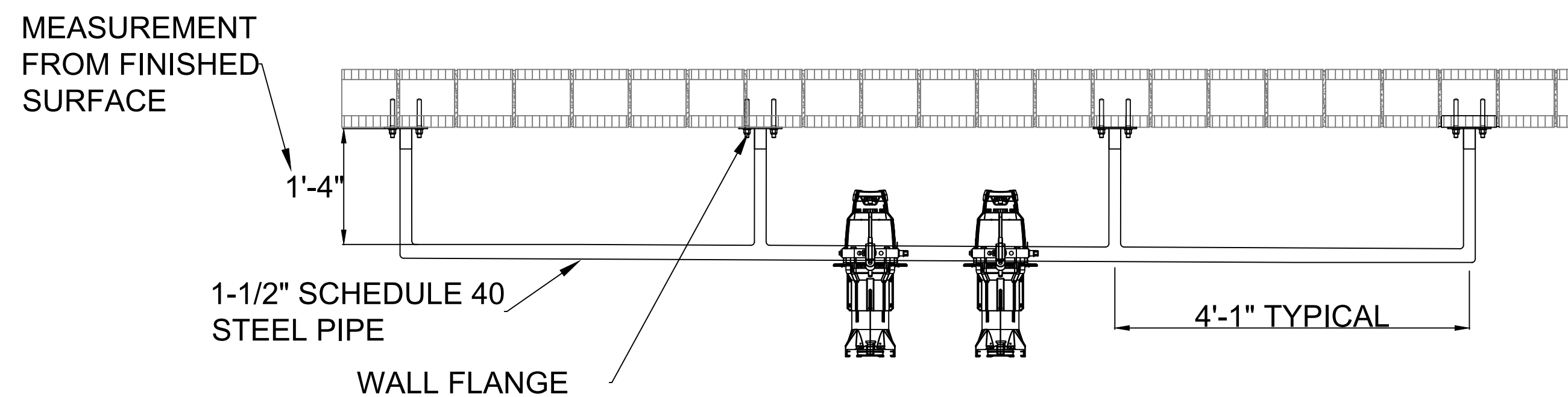


THREE CIRCUIT PIPE MOUNT OUTLET BOX

- NOTES:
- 1.) OUTLET BOX IS Ⓢ LISTED.
 - 2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
 - 3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
 - 4.) ALL RECEPTACLES WITH ND#s (NON-DIM PANEL) SHALL HAVE L6-20 STAGE TWIST LOCK CONNECTORS INSTALLED.

NON-DIM PLUGGING BOXES

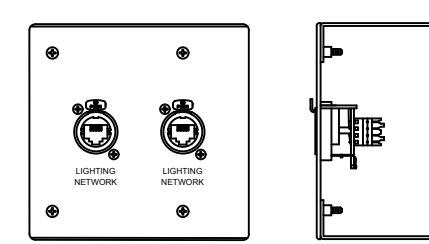
SCALE: 1-1/2"=1'-0"



OVER BOOTH BATTEN DETAIL

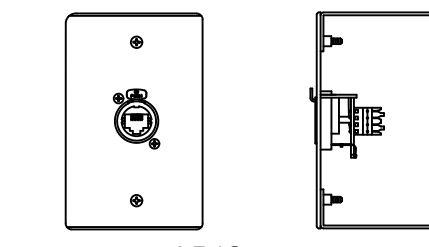
SCALE: 1"=1'-0"

FRONT VIEW SIDE VIEW



LR2S SURFACE MOUNT

FRONT VIEW SIDE VIEW



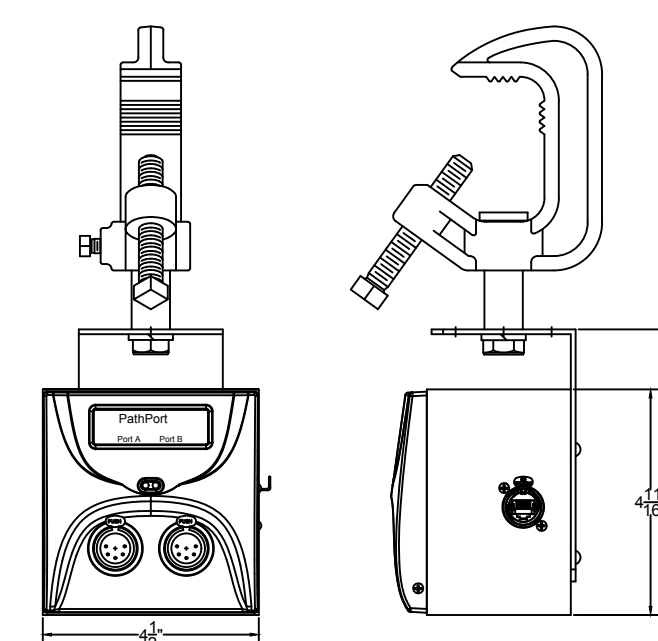
LR1S SURFACE MOUNT

NOTES:

- 1.) FACE PANEL IS .08 ALUMINUM FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.
- 2.) ALL NOMENCLATURE IS ENGRAVED IN WHITE.
- 3.) BACK BOX IS CONSTRUCTED OF 16 GA. STEEL AND IS FINISHED IN A BLACK FINE-TEXTURED POWDER COAT.

STAGE LIGHTING NETWORK DETAIL

SCALE: 3"=1'-0"



PORTABLE NODES

SCALE: 3"=1'-0"

NOTES: DUAL OUTPUT PORTABLE NODE

- 1.) THE NODE FACEPLATE SHALL BE CONSTRUCTED OF DURABLE CAST ALUMINUM. PRODUCTS UTILIZING A PLASTIC FACEPLATE DO NOT MEET THE DURABILITY REQUIREMENTS FOR THE APPLICATION.
- 2.) PORTABLE NODES SHALL BE INSTALLED IN A MATCHING BACK BOX SUPPLIED BY THE NODE MANUFACTURER.
- 3.) NODES AND SURFACE MOUNT BACK BOXES SHALL BE PROVIDED IN MATTE BLACK FINISH.
- 4.) ALL NOMENCLATURE SHALL BE REVERSED SILK SCREENED ONTO 10 MIL VELVET LEXAN ADHESIVE LABELS PLACED ON UNIT.
- 5.) PROVIDE IN QUANTITIES AS SHOWN ON THE SYSTEM ONE LINE DRAWING.

ROBERT C. ANSTON, P.E. 40858
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CONSTRUCTION DOCUMENTS

STAGE LIGHTING - DISTRIBUTION & DETAILS

Key West High School
Theatrical Lighting and Sound Improvements
2100 Flagler Avenue
Key West, FL 33040

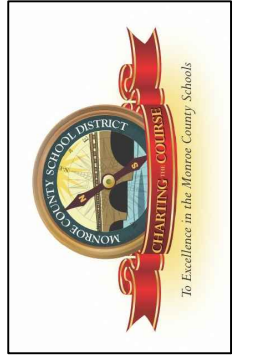
Monroe County School District
241 Trumbo Rd.
Key West, Florida 33040

AGI
Anston-Greenless, Inc.
Mechanical & Electrical Consulting Engineers
1114 West Ashlar Avenue, Tampa, FL 33627 (813) 976-1919
www.agi-engineers.com Florida Engineering Business Number 0001

DRAWN
CHECKED
DATE
02/17/17
SCALE
AS NOTED
AGI PROJECT
16020
SHEET

TL1.4

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 Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

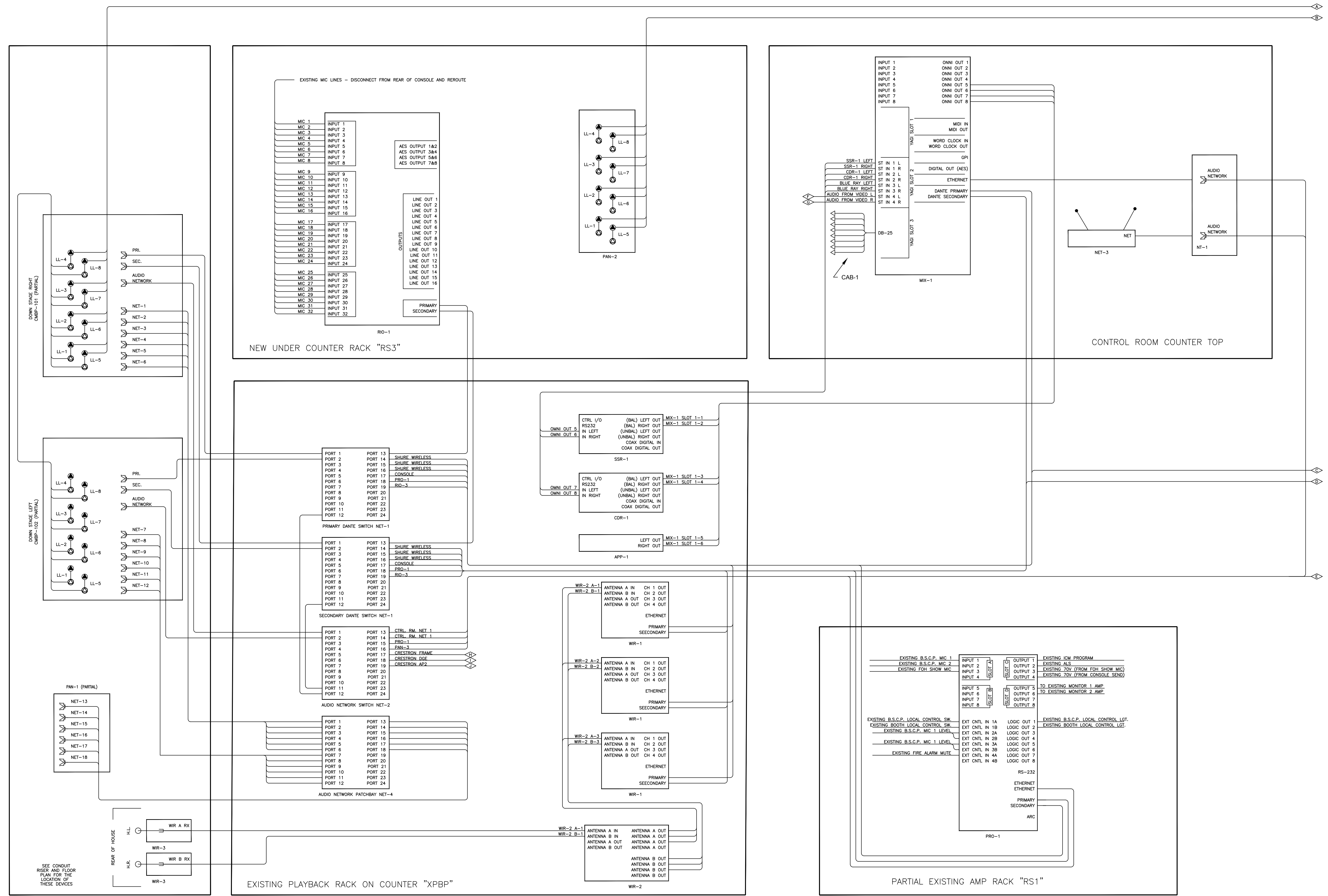
CONSTRUCTION DOCUMENTS

SOUND SYSTEM ONE—LINE 1

AGI
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1115 West Homer Avenue, Tampa, FL 33613
 Tel: 813-988-9100 Fax: 813-988-9100
 Email: agi@anston-greenlees.com
 Florida Engineering Business Number 0024

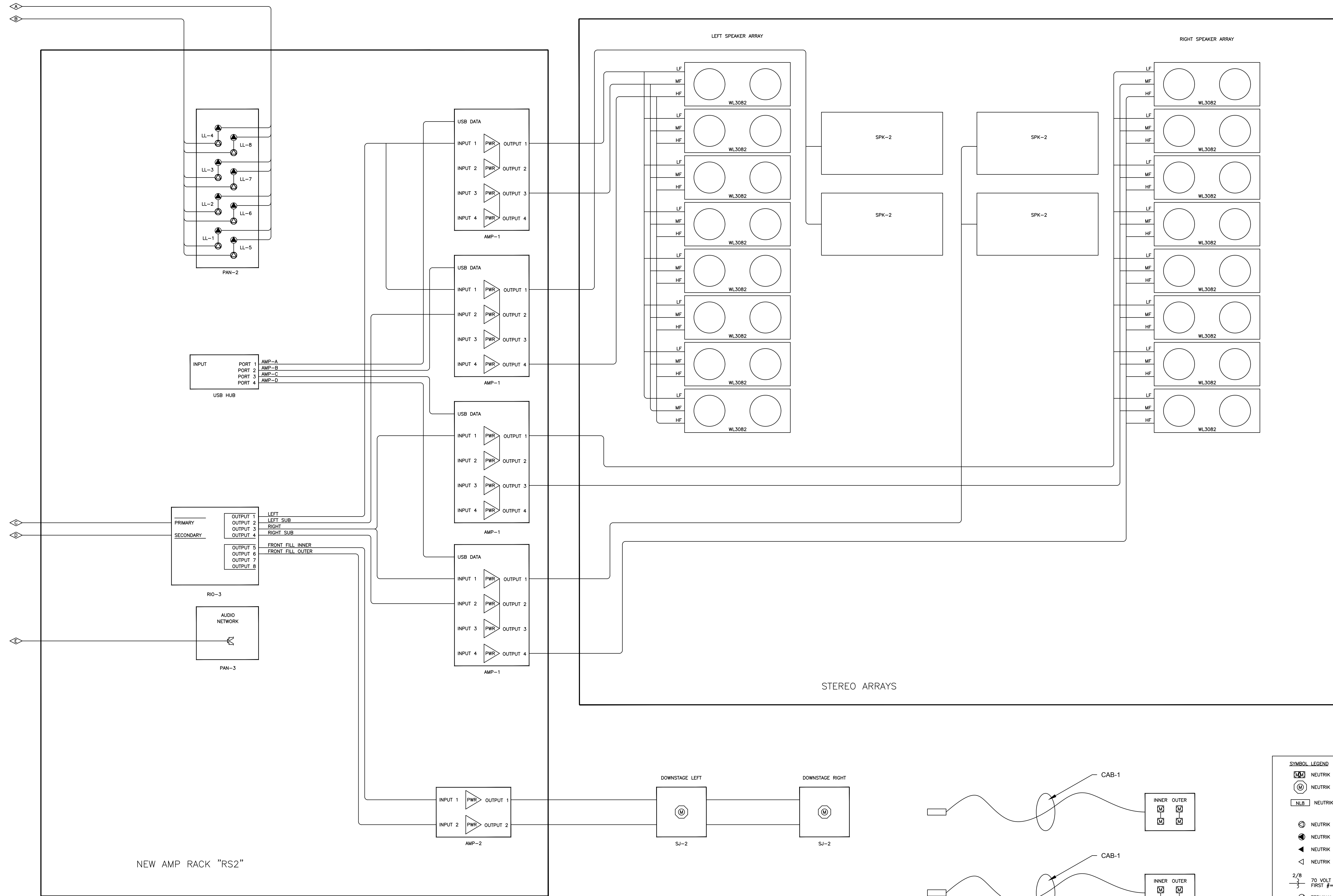
DRAWN	TSG
CHECKED	AJC
DATE	02/17/17
SCALE	AS NOTED
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TS1.1



SOUND SYSTEM ONE—LINE 1
SCALE: NTS

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SYMBOL LEGEND

	NEUTRIK NLRK
	NEUTRIK NLB
	NEUTRIK CHASSIS MOUNT 3 PIN FEMALE XLR
	NEUTRIK CHASSIS MOUNT 3 PIN MALE XLR
	NEUTRIK CABLE MOUNT 3 PIN MALE XLR
	NEUTRIK CABLE MOUNT 3 PIN FEMALE XLR
	TERMINAL BLOCK
	RF CONNECTOR (PL-259 OR BNC DEPENDING ON USE)
	NEUTRIK ETHERCON PANEL MOUNT CAT 5
	NEUTRIK ETHERCON CABLE MOUNT CAT 5
	ISOLATED BNC PANEL MOUNT

2/8
70 VOLT SPEAKER TRANSFORMER
FIRST #=POWER, SECOND #=SPEAKER Z

SOUND SYSTEM ONE-LINE 2
SCALE: NTS

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CONSTRUCTION DOCUMENTS

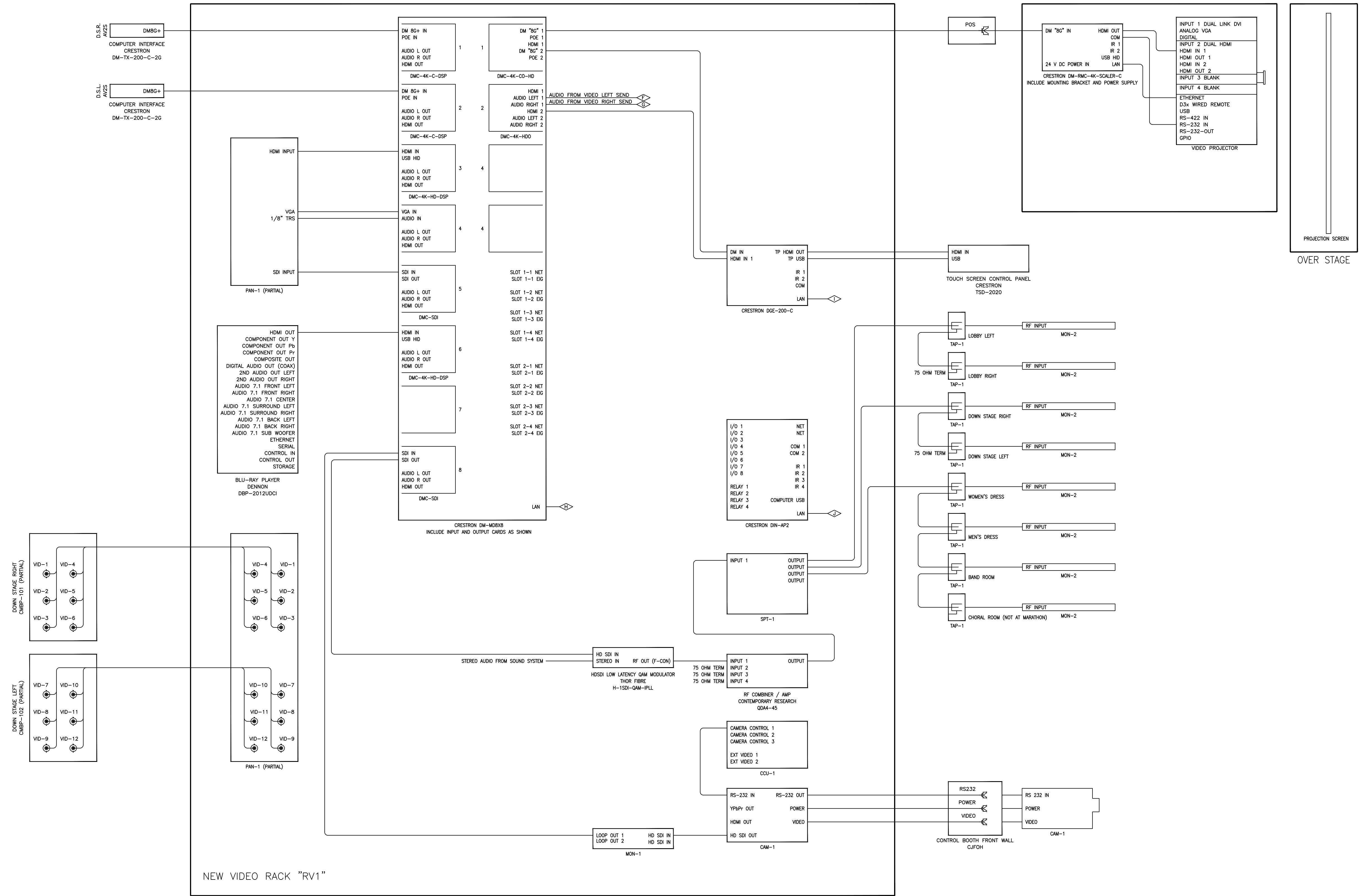
SOUND SYSTEM ONE-LINE 2




Anston-Greene, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Hunter Avenue, Tampa, FL 33622 Tel: 813-988-5199
Fax: 813-988-5280
Florida Engineering Business Number 6076

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CHECKED AJC
DATE 02/17/17
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Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

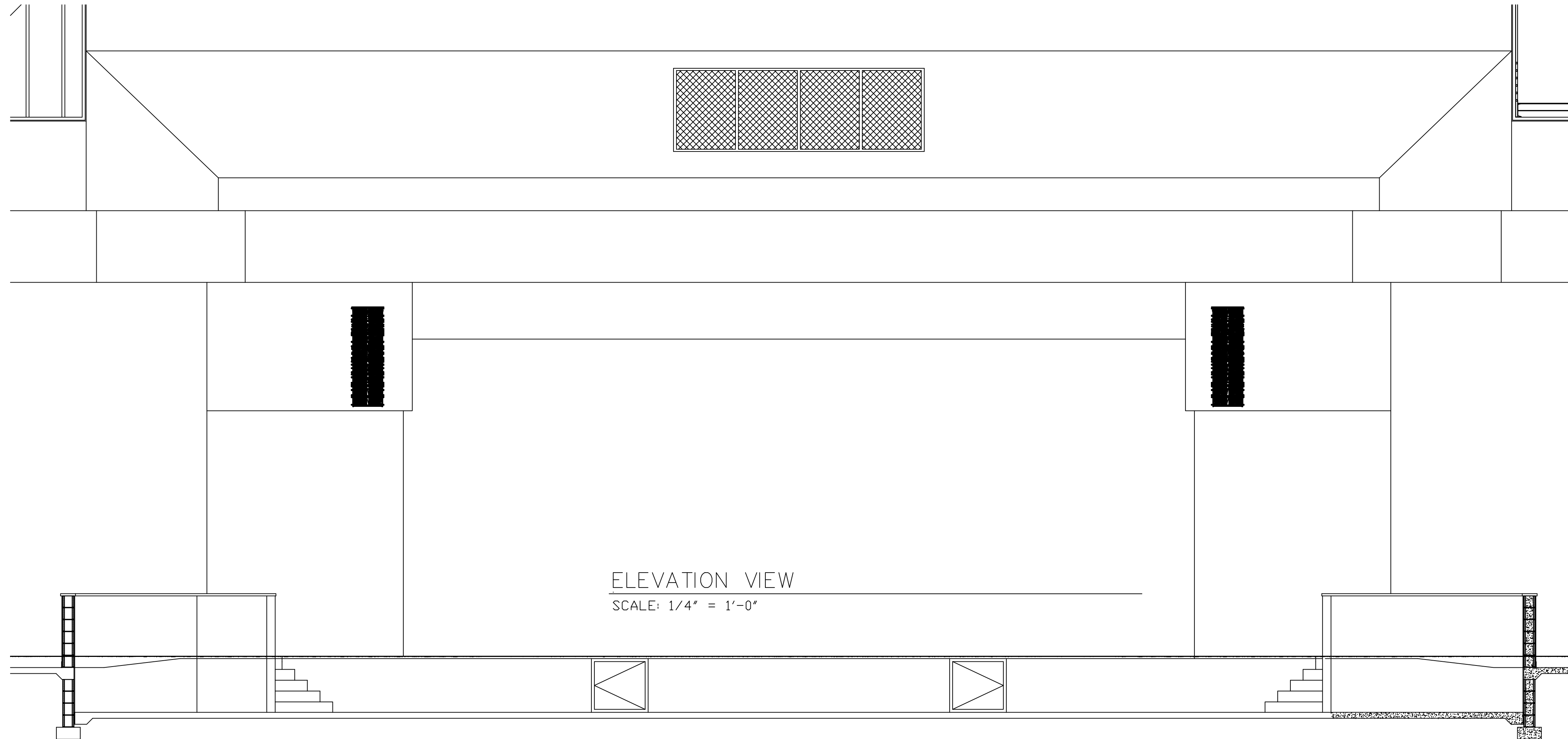
VIDEO SYSTEM ONE-LINE

AGI
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1115 West Harbor Avenue, Tampa, FL 33602, Tel: 813.366.9199
 Fax: 813.366.9198
 Florida Engineering Business Number 0001

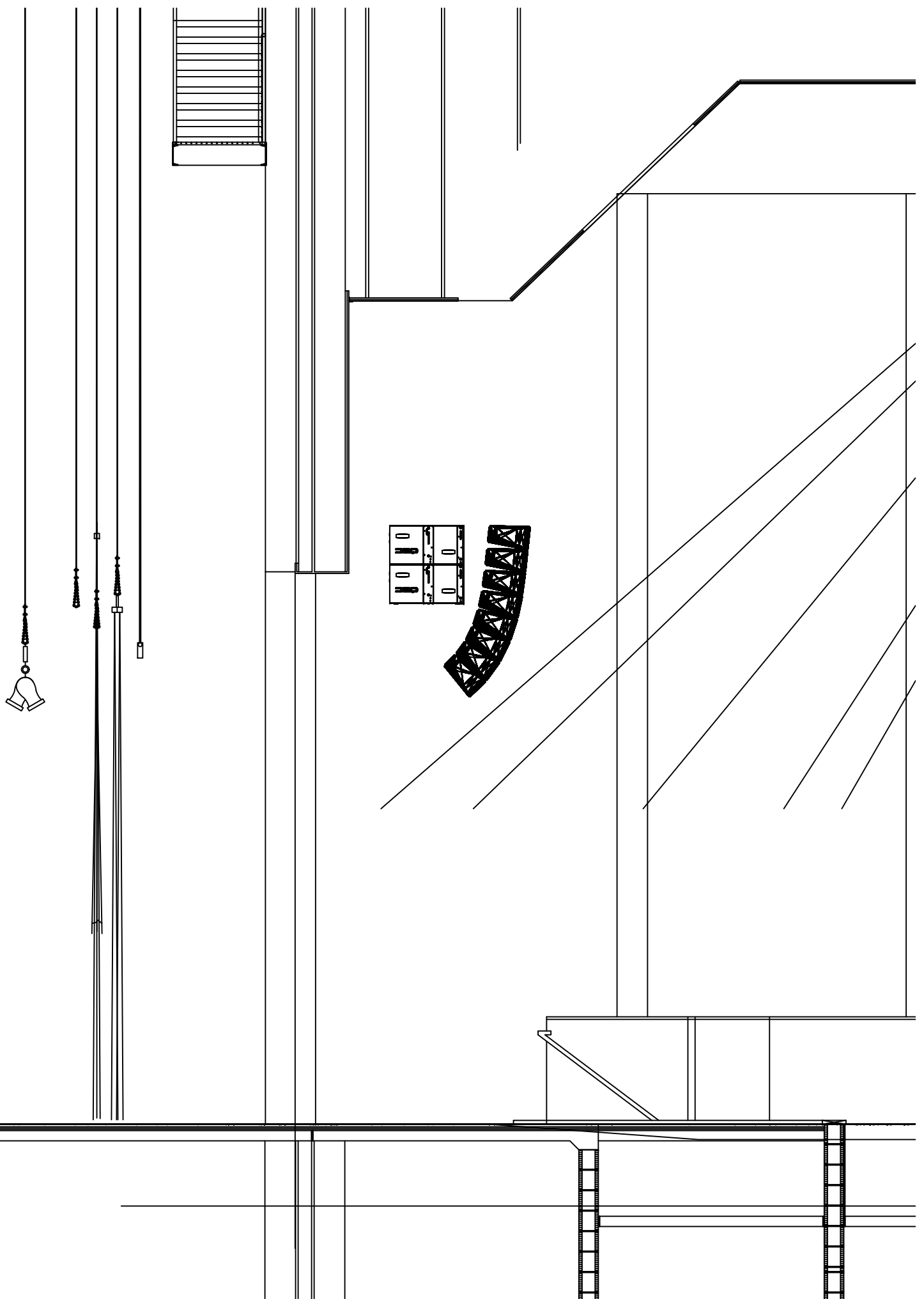
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DATE	02/17/17
SCALE	AS NOTED
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SHEET	TS1.3

VIDEO SYSTEM ONE-LINE
SCALE: NTS

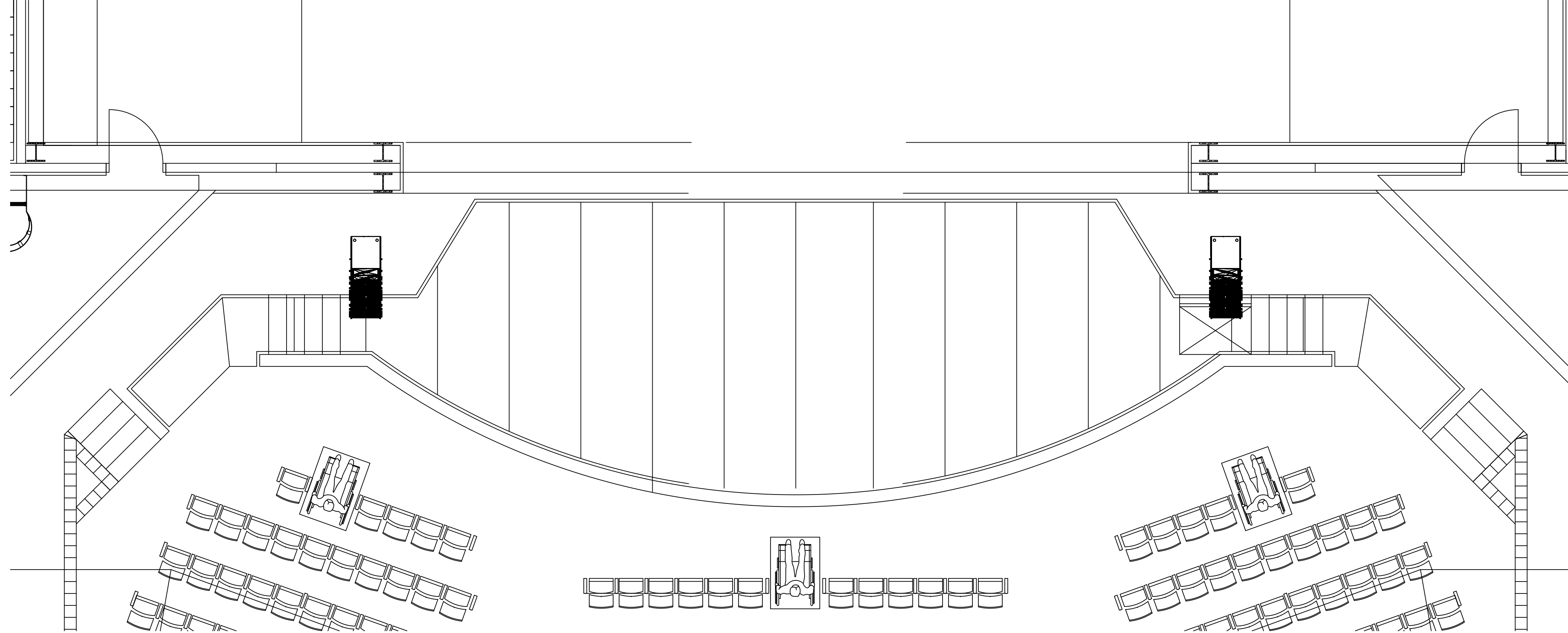
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ELEVATION VIEW
SCALE: 1/4" = 1'-0"

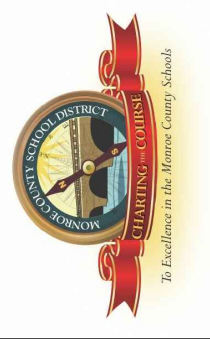


SECTION VIEW
SCALE: 1/4" = 1'-0"



PLAN VIEW
SCALE: 1/4" = 1'-0"

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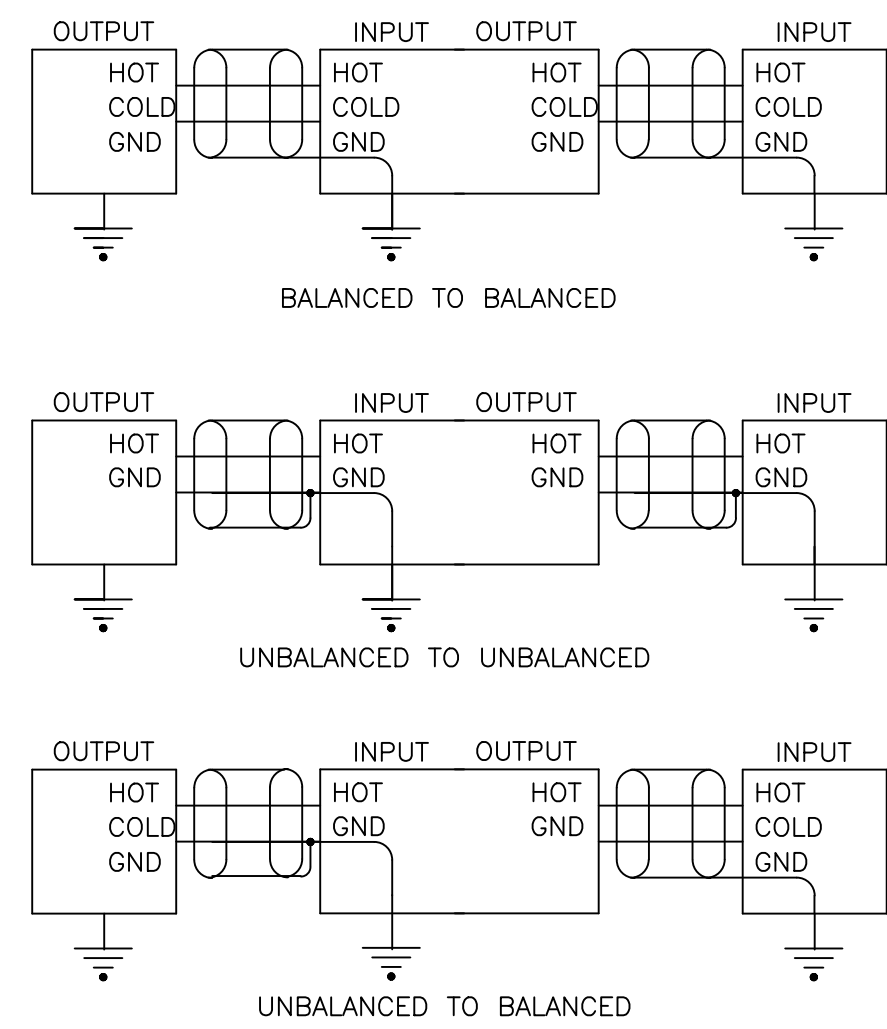


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Monroe County School District
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CONSTRUCTION DOCUMENTS
 SPEAKER ARRAY DETAILS
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1115 West Hunter Avenue, Tampa, FL 33622, Tel: 813.986.9199
 Florida Engineering Business Number: 0078
AGI

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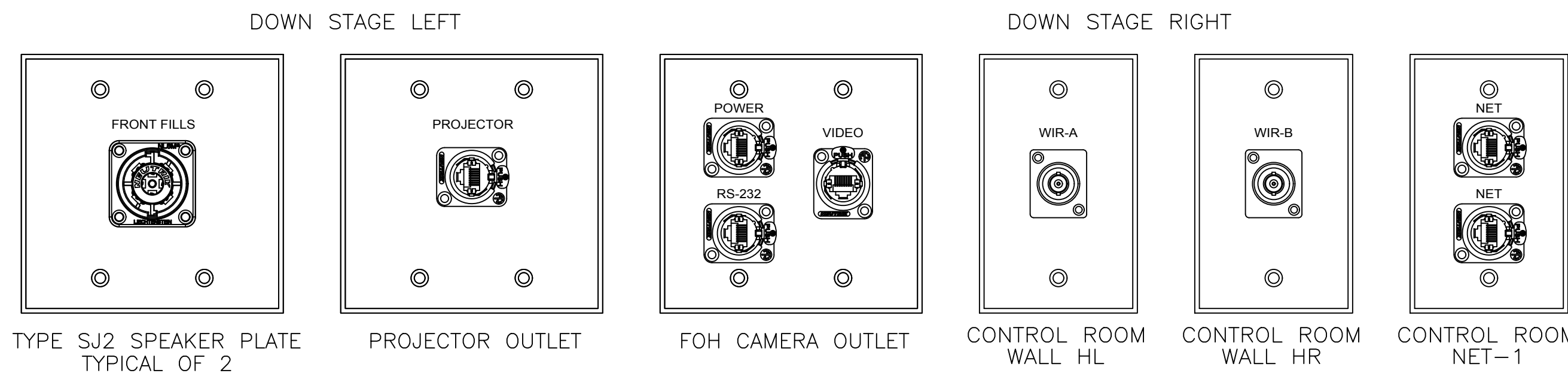
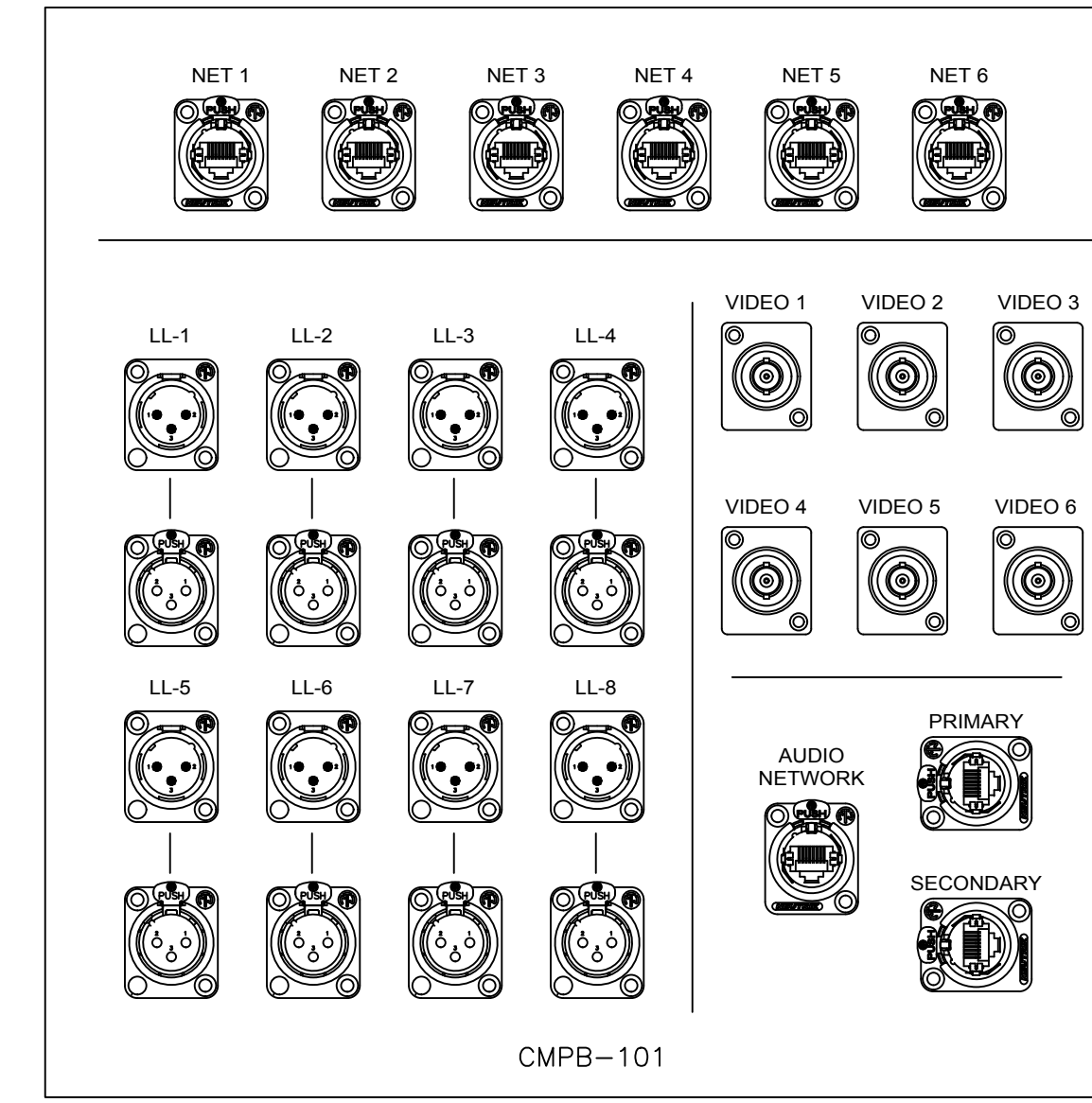
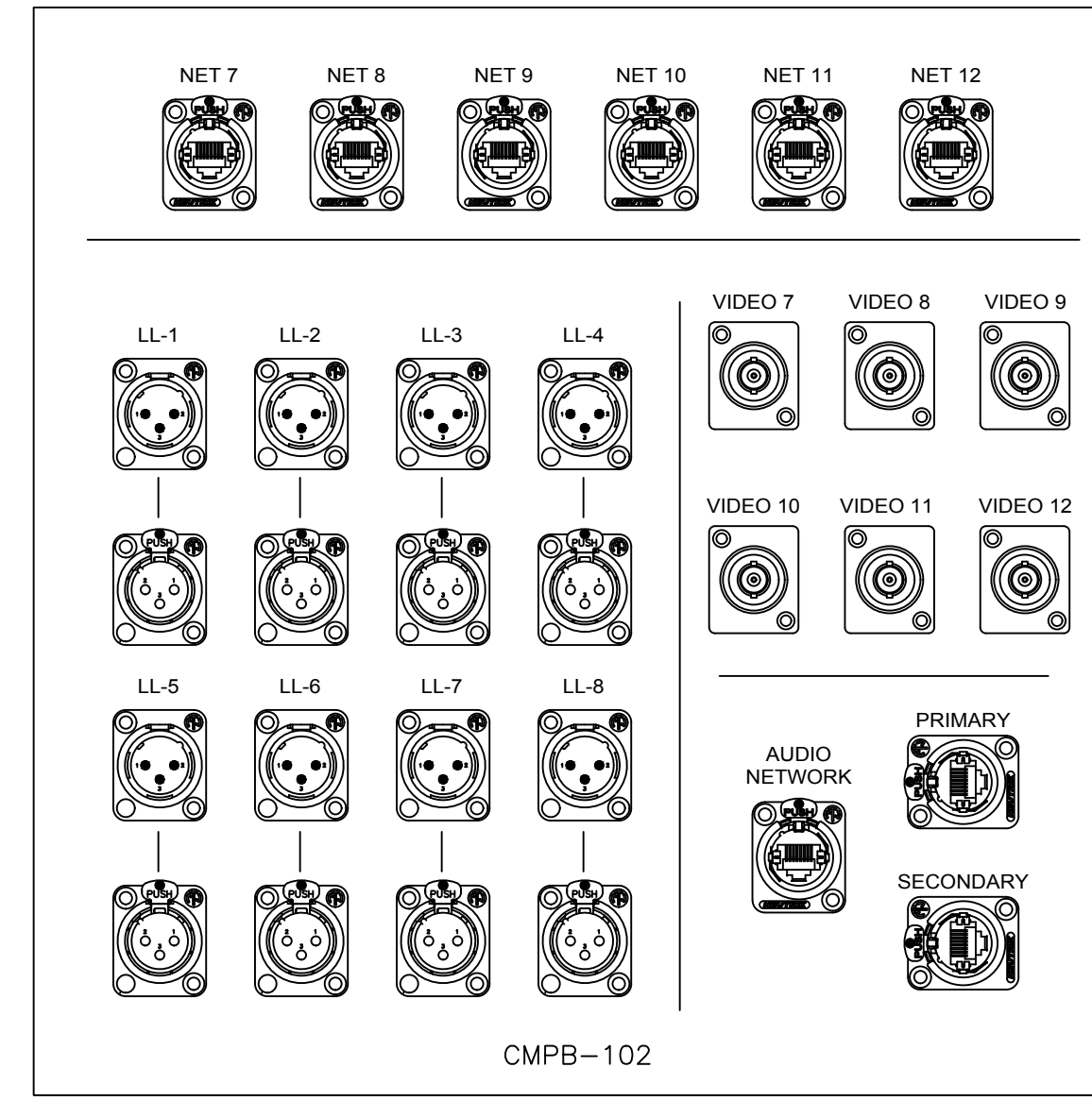
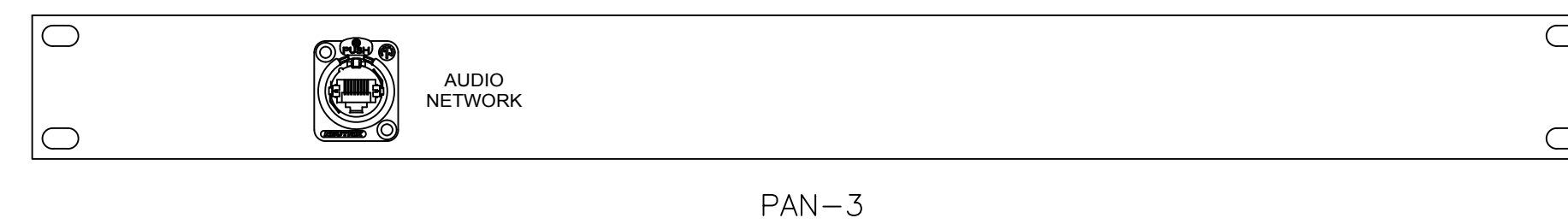
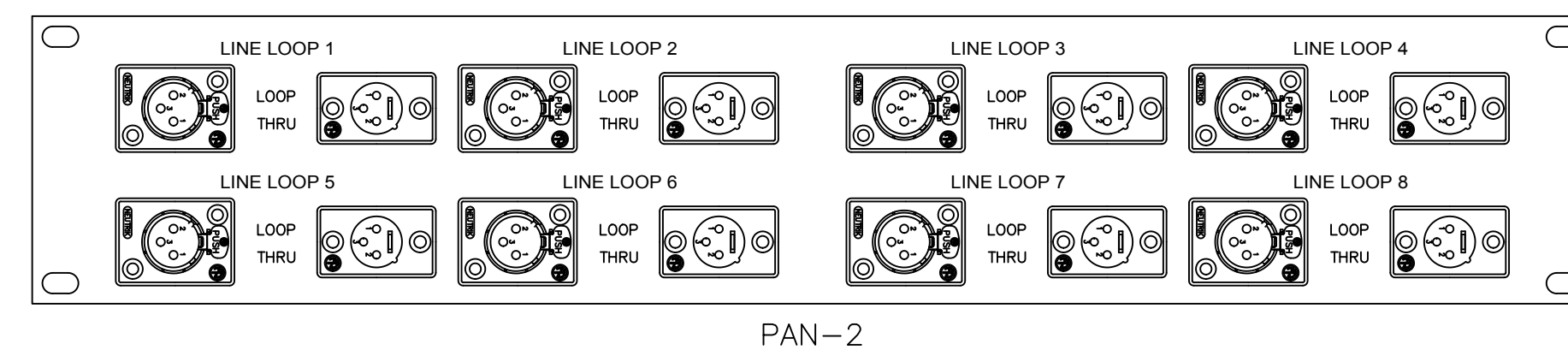
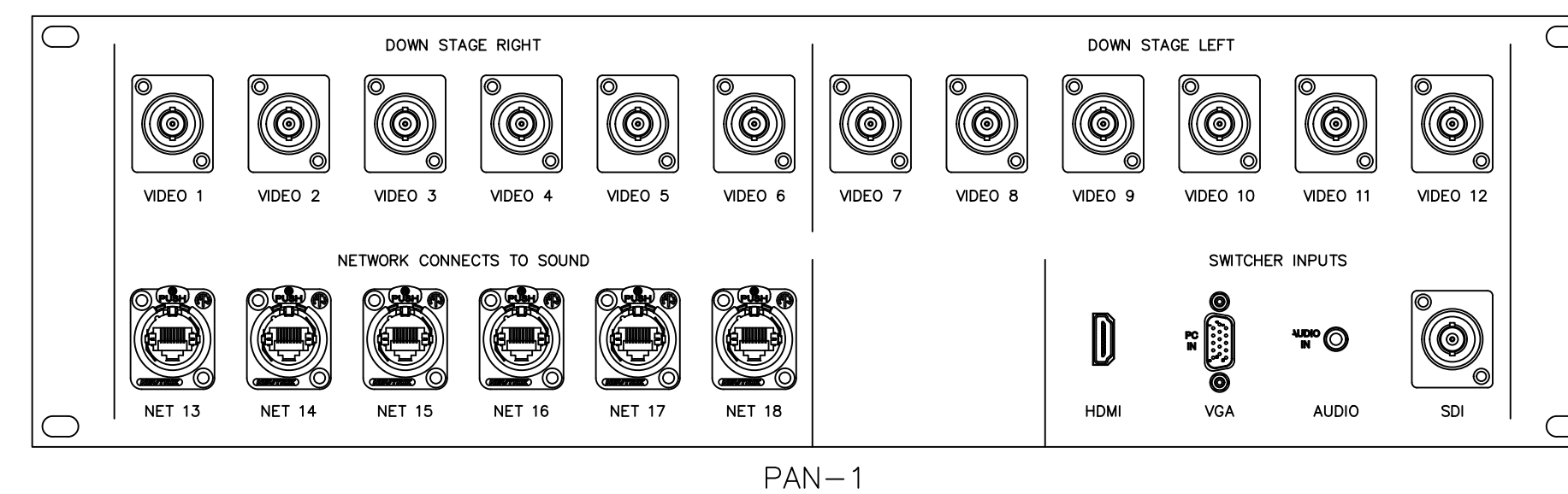
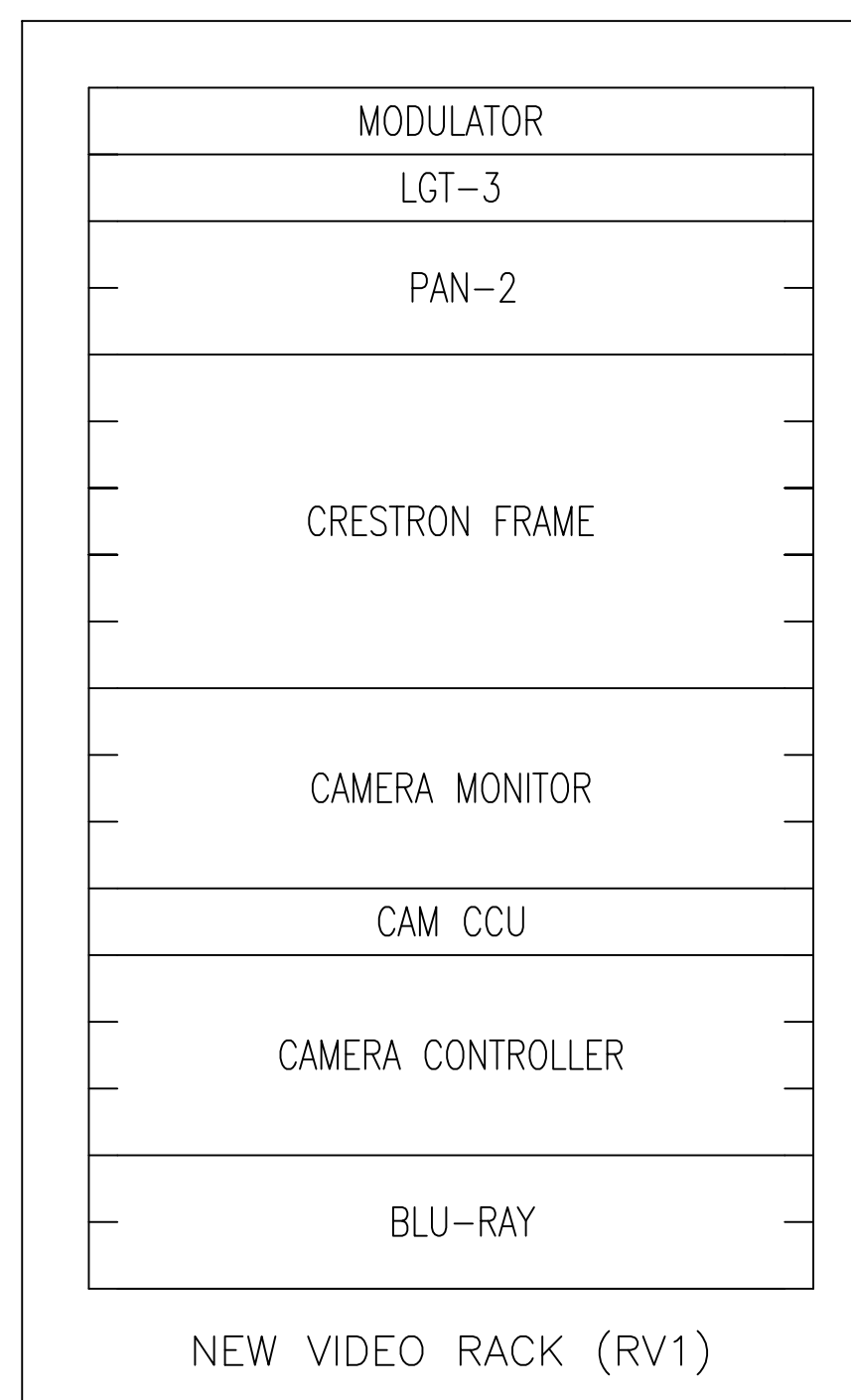
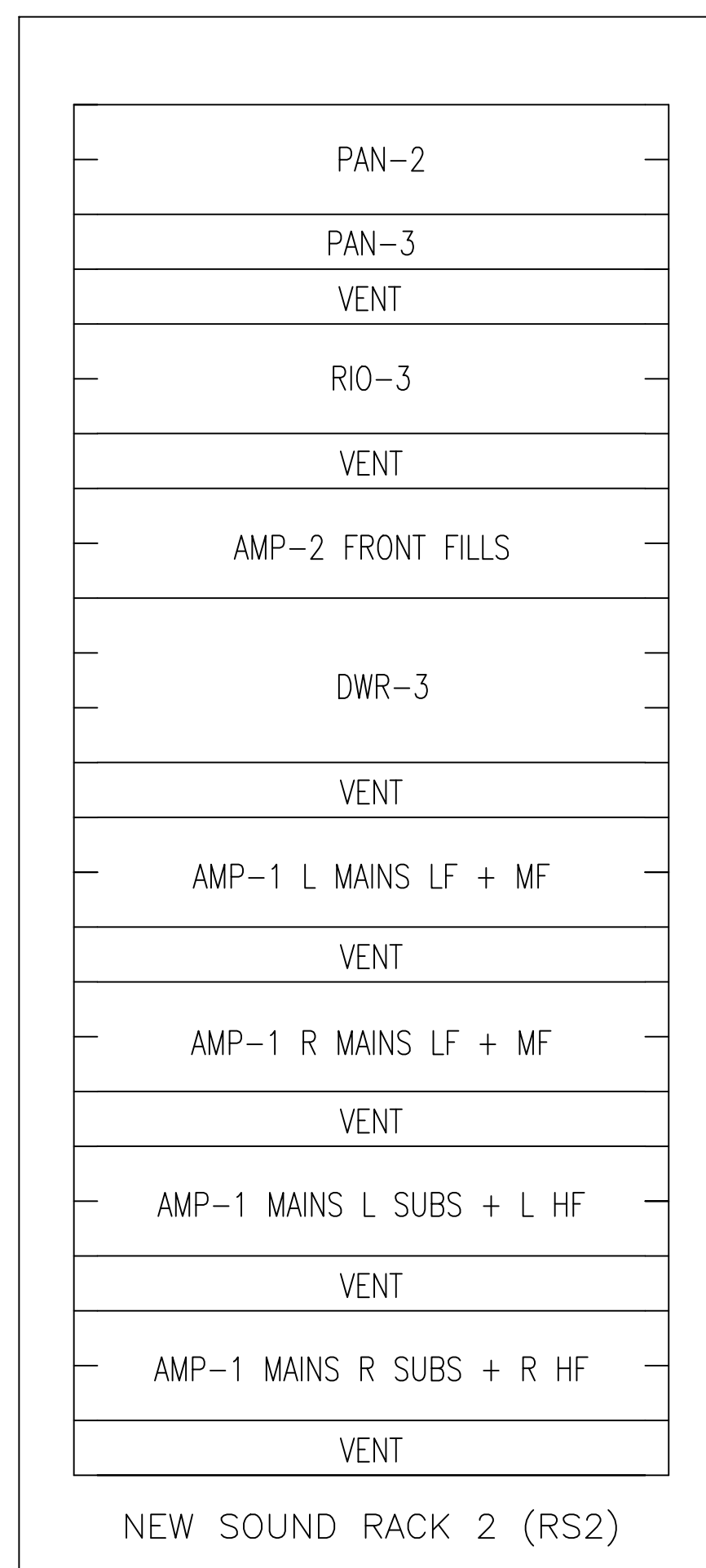
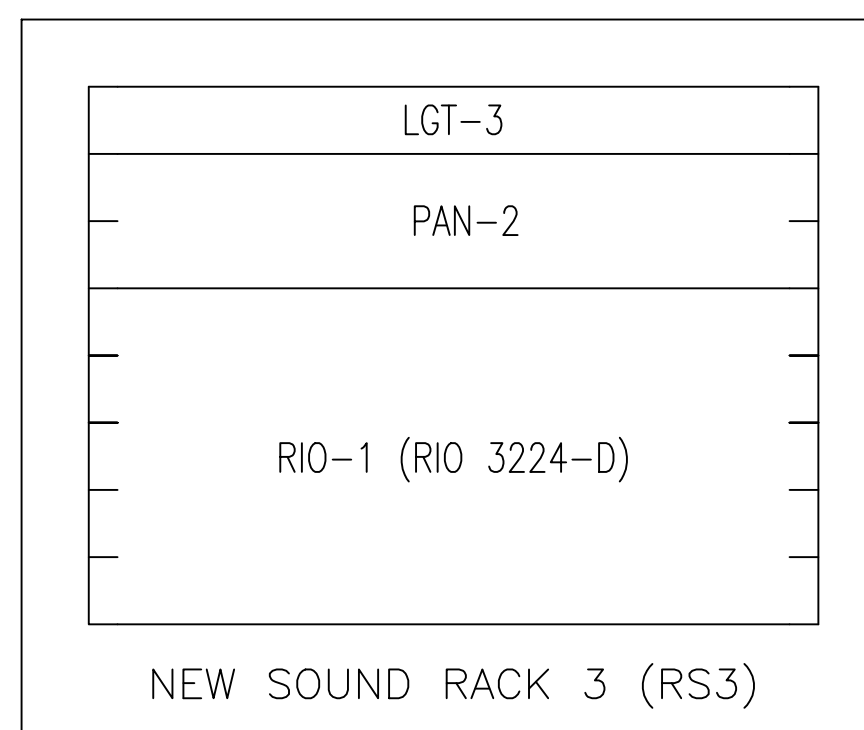
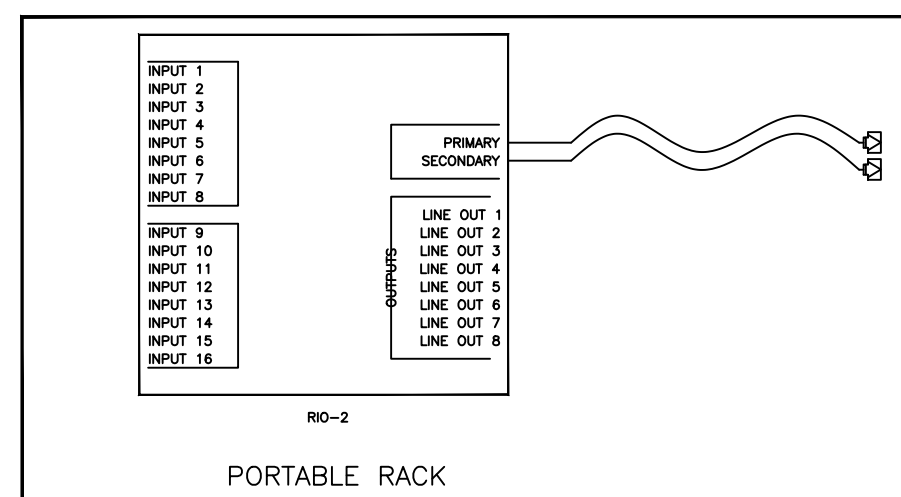
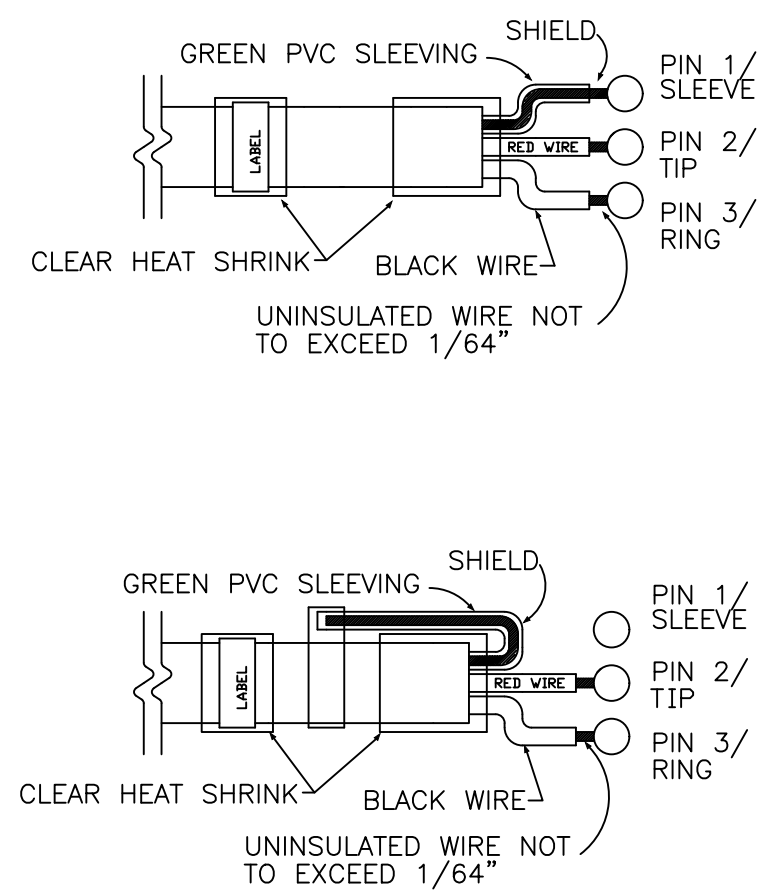
NOTES:
A TRS PATCHBAY JACK IS TO BE WIRED AS A BALANCED DEVICE.

LEAVE ALL CIRCUIT GROUND TO CHASSIS GROUND JUMPERS IN PLACE.

WHERE SHIELD IS "LIFTED", SLEEVE WITH GREEN P.V.C. TUBING. FOLD BACK OVER THE CABLE AND CAP WITH A SEPARATE PIECE OF HEATSHRINK. LEAVE SHIELD DRAIN WIRE THE SAME LENGTH AS THE CIRCUIT CONDUCTORS.

HOT TO BE RED OR WHITE.

COLD (GND IN UNBALANCED) TO BE BLACK.



CONSTRUCTION DOCUMENTS

PLATES, RACKS & DETAILS

AGI

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Mechanical & Electrical Consulting Engineers

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