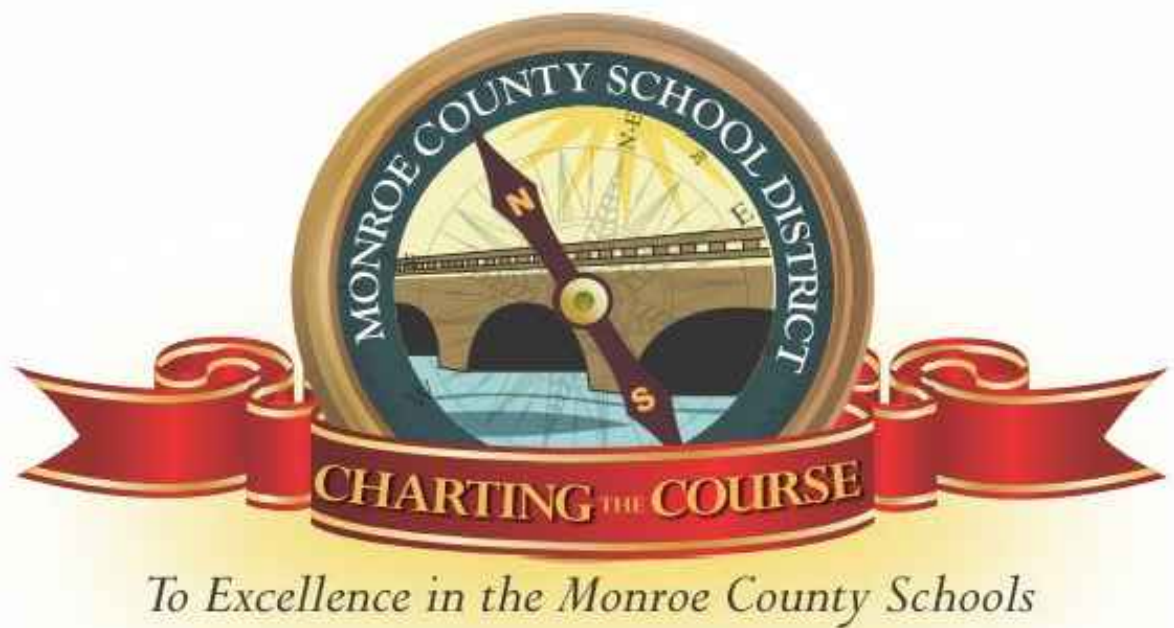


Coral Shores High School Theatrical Lighting and Sound Improvements

PREPARED FOR



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

PREPARED BY

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Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel(813)963-1919
Email: AGI@agi-engineers.com HTTP://www.agi-engineers.com
Florida Engineering Business Number 6093

Coral Shores High School
89901 Old Highway
Tavernier, FL 33070



DRAWING INDEX

NUMBER	TITLE
X1	COVER SHEET
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E1.2	LIGHTING PLAN - THEATRICAL
E2.0	POWER DEMOLITION PLAN - AUDITORIUM
E2.1	POWER PLAN - AUDITORIUM
E3.0	SYSTEMS DEMOLITION PLAN - AUDITORIUM
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Construction Documents
February 17, 2017

AGI PROJECT
16020

SHEET
X1

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND
THE PROJECT MANUAL ARE COMPLETE AND COMPLY
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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 RJ45, 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 RJ45, 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 RJ45, 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-6ARM150 / IRA600Z	1100lm @ 3000K	15W
IHOL-6ARM250 / IRA600Z	1900lm @ 3000K	25W
IHOL-6ARL150 / IRA600Z	2500lm @ 3000K	35W
IHOL-6ARL250 / IRA600Z	3200lm @ 3000K	46W
IHOL-6ARL350 / IRA600Z	4300lm @ 3000K	60W
IHOL-6ARL450 / IRA600Z	5200lm @ 3000K	75W
IHOL-6ARL550 / IRA600Z	6300lm @ 3000K	90W

* Delivered lumens output will vary depending on CCT, CRI and optics selection.
 ** System Wattage includes 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

- 15W, 25W, 35W, 46W, 60W, 75W and 90W
- 82 CRI & 2700K, 3000K, 3500K, 4000K
- 92 CRI available in 2700K & 3000K
- 3 Step MacAdam (E150EN)
- Rated life of 50,000 hours L70 based on LED testing per IESNA LM79-11

ELECTRICAL SYSTEM (120V OR 277V)

- Power factor > 0.95@90Hz
- This product complies with IEEE C62.41 for surge endurance up to 2kV. Additional surge protection recommended. Damage from power surge is not covered by warranty.
- Active thermal management on 60W, 75W, 90W models with quiet $C2B5A$ operation

FRAME CONSTRUCTION

Constructed from 1/2 gauge and 1/8 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

JOB NAME: _____ CATALOG NUMBER: _____

NOTES: _____ TYPE: _____

Housing Specification:

Example: IHOL-6ARL550-010-40-EM

6" Gravity LED Adjustable **IHOL-6AR**

LED LIGHT ENGINE

Beam Angle	Power	Part #	
1100lm / 15W	M1	1500lm / 25W	M2
1900lm / 35W	L1	2500lm / 46W	L2
3200lm / 60W	L3	4300lm / 75W	L4
5200lm / 90W	L5	6300lm / 90W	L5

CCT / CRI

Part #	CCT / CRI
2700K / 82 CRI	27
2700K / 92 CRI	27P
3000K / 82 CRI	30
3000K / 92 CRI	30P
3500K / 82 CRI	35
4000K / 82 CRI	40

DIMMING

- Non-Dimming blank
- 0-10V Dimming 10% -D10
- 0-10V Dimming 1% -D101
- dimLED 0-10V 1% -ED10V1
- dimLED 0-10V 0.1% -ED10V01
- Lutron Eclysium 1% -LUT1
- Lutron 3-Wire 0-10V 1% -LUT11
- dimLED DALI 1% -EDALI1
- dimLED DALI 0.1% -EDALI01
- DMX512 1% -DMX

VOLTAGE

Part #	Voltage
blank	120V
blank	277V

OPTIC

Part #	Beam Angle
14" Spot	-14"
20" Spot	-20"
30" Narrow Flood	-30"
40" Flood	-40"
50" Wide Flood	-50"

ACCESSORIES

Part #	Description
EM	Emergency Backup
-T100	C-Channel Bar Hangers
-T200	Flat Bar Hangers
-A100	Wood Joist Bar Hangers

REFLECTOR

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

INSTALLATION

The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Accommodates up to 1 1/2" ceiling thickness. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Max. ambient temperature: 131°F (55°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 (1) 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

ACCESSORIES

- Emergency Backup -EM
- C-Channel Bar Hangers -T100
- Flat Bar Hangers -T200
- Wood Joist Bar Hangers -A100

TRIM SPECIFICATION:

Example: IRA600Z-SF

Adjustable **IRA600**

REFLECTOR FINISH

- Black B+
- Clear C
- Haze HZ
- White W
- White WH+

TRIM

- Self Flanged -SF
- Self Flanged White -SFW

Accessories:
 Luminaire will accommodate (1) accessory

FILTER MEDIA

- Softie Soft Focus PFL4-111*
- Black Hex Lower PFLM-111*

Notes:

- Energy Star (1-15 packages) / 82 CRI - 3000K, 3500K, 4000K only / Clear Reflector Only
- dimLED dimming available with M1, M2, L1 & L2
- Lutron® dimming available with M1, M2, L1 & L2
- 14" Optic available in M1, M2, L1 & L2
- 50" Optic in M1, M2, L1 & L2 does not accept filter media accessories
- Consult factory for lead times
- Luminaire will accommodate (1) filter media accessory. Factory installed

Intense Lighting, LLC | 3340, E. La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com



REVISIONS	BY

**Coral Shores High School
 Theatrical Lighting and Sound Improvements**
 89501 Old Highway
 Tavernier, FL 33070
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

LUMINAIRE SCHEDULE AND CUT SHEET

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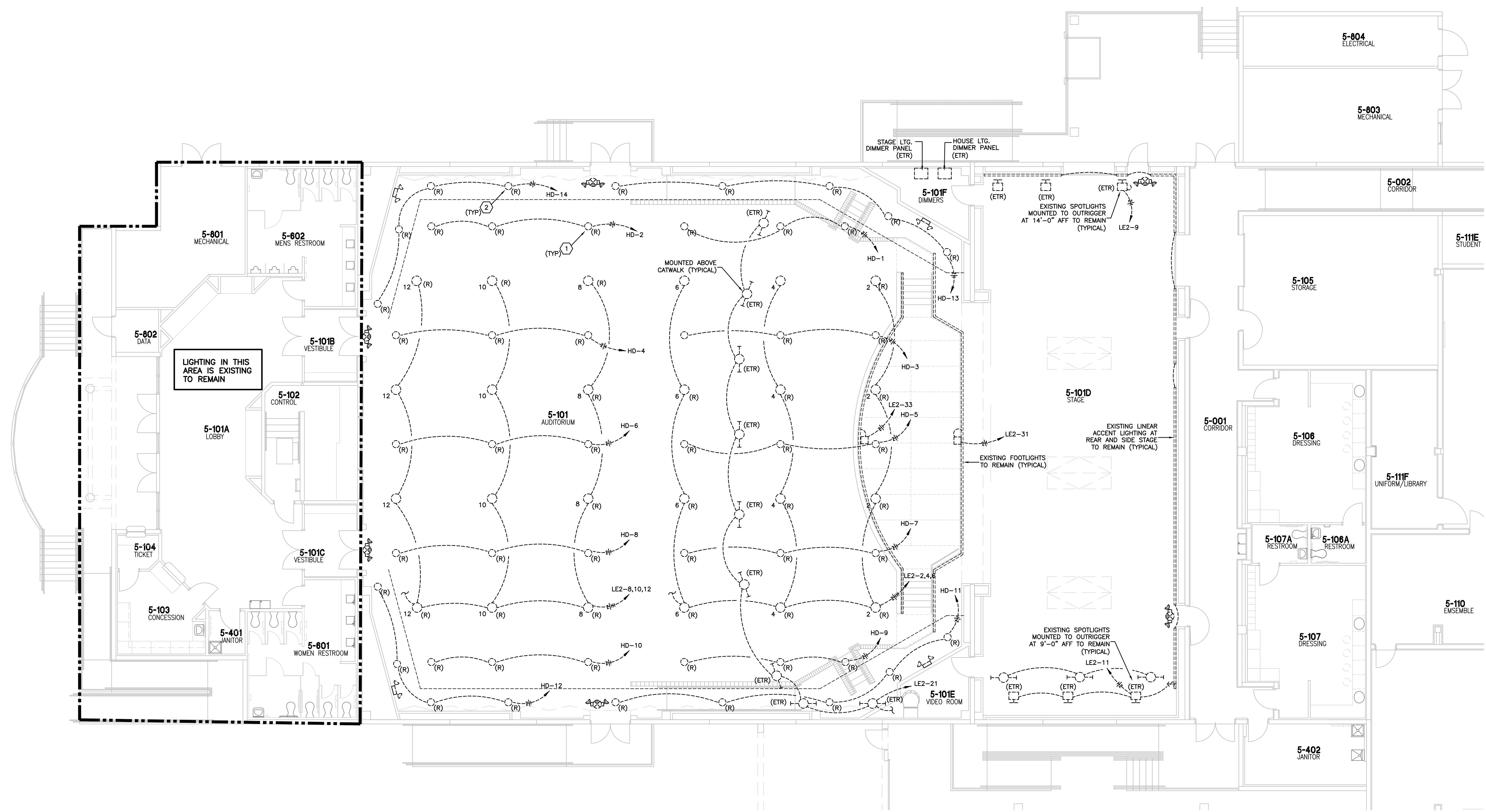
DRAWING NOTES:

- 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.

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


Coral Shores High School
Theatrical Lighting and Sound Improvements
 89907 Old Highway
 Tavernier, FL 33070
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS

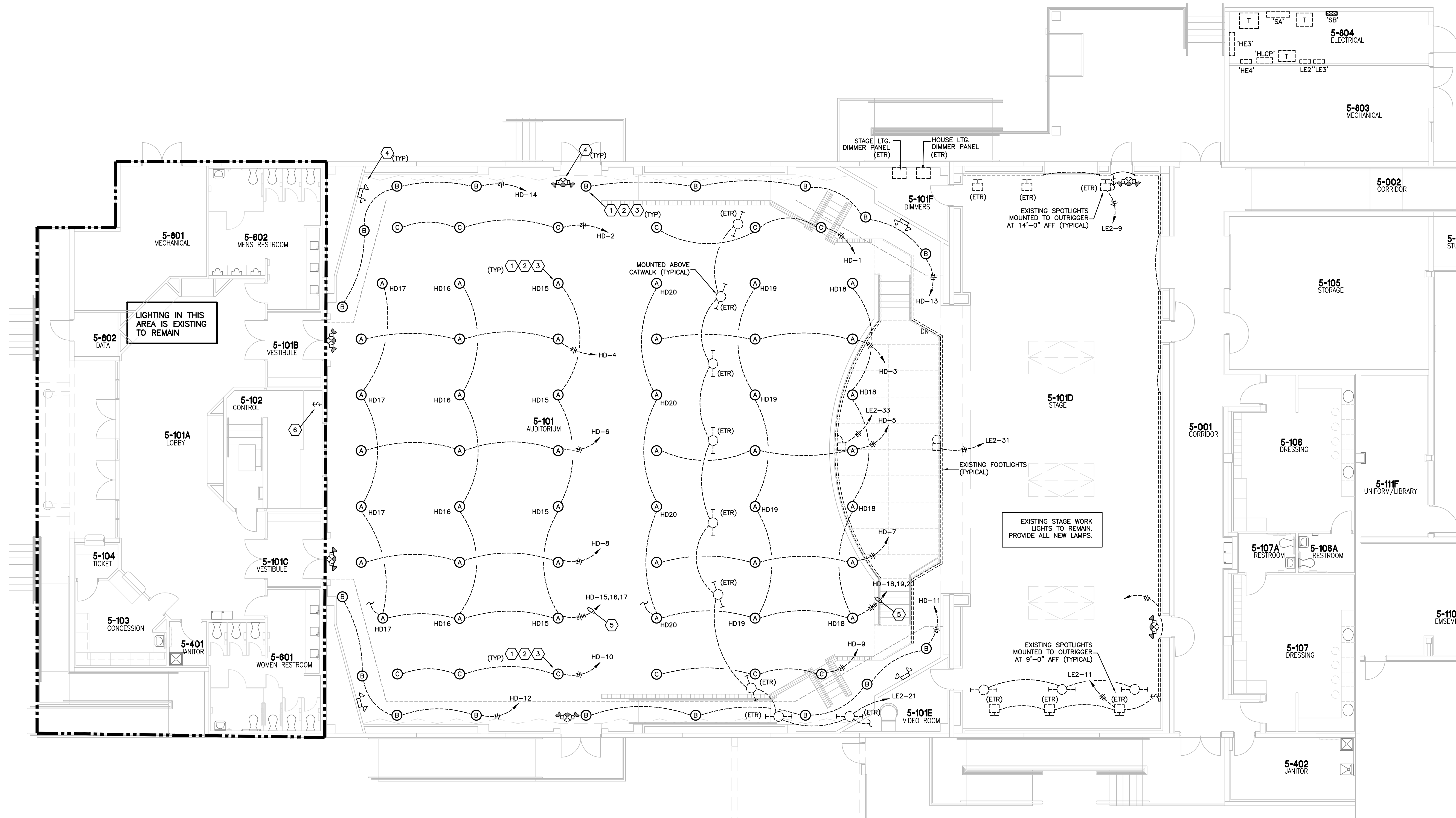
LIGHTING DEMOLITION PLAN – AUDITORIUM

AGI
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SCALE	AS NOTED
AGI PROJECT	16020
SHEET	E1.0

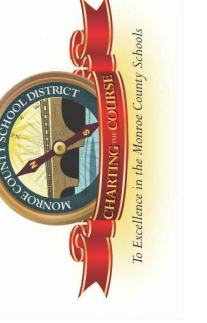
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ROBERT C. ANSTON, P.E. 40856
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 AND THE PROJECT MANUAL ARE COMPLETE AND
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DRAWING NOTES:

- 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 CABLING 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) IN ROOM 5-101F. CIRCUIT CAN BE INTERCEPTED ABOVE CEILING IN AUDITORIUM, IF ACCESSIBLE OR IN ELECTRICAL ROOM 5-804. 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.



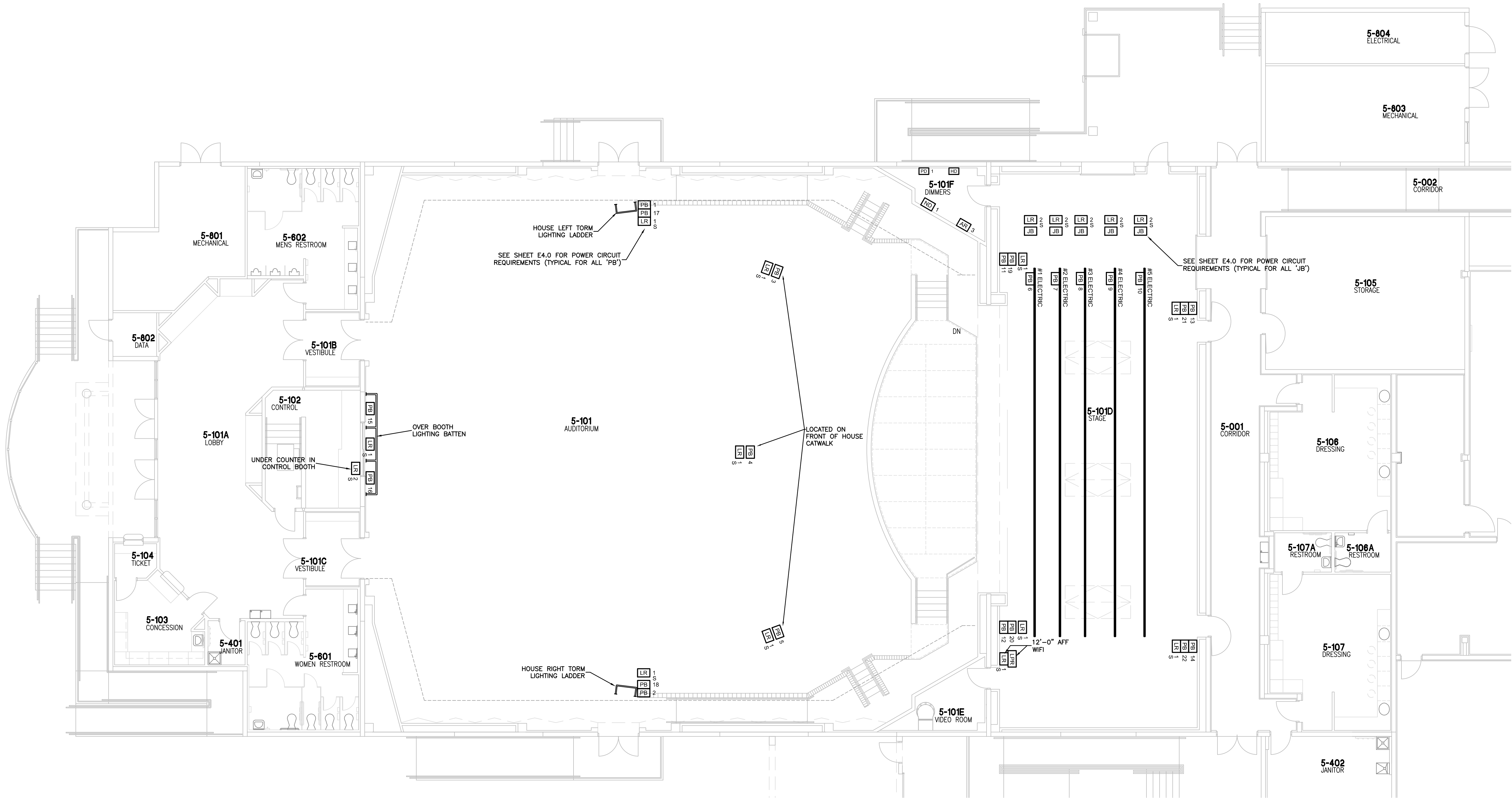
Coral Shores High School
Theatrical Lighting and Sound Improvements
 89901 Old Highway
 Tavernier, FL 33070
Monroe County School District
 241 Trumbo Rd.
 Key West, Florida 33040

CONSTRUCTION DOCUMENTS
 LIGHTING PLAN - AUDITORIUM

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AGI PROJECT	16020
SHEET	E1.1

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

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

(SEE 'TL' LIGHTING SHEETS FOR MORE REQUIREMENTS)

REVISIONS	BY

Coral Shores High School
Theatrical Lighting and Sound Improvements
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CONSTRUCTION DOCUMENTS

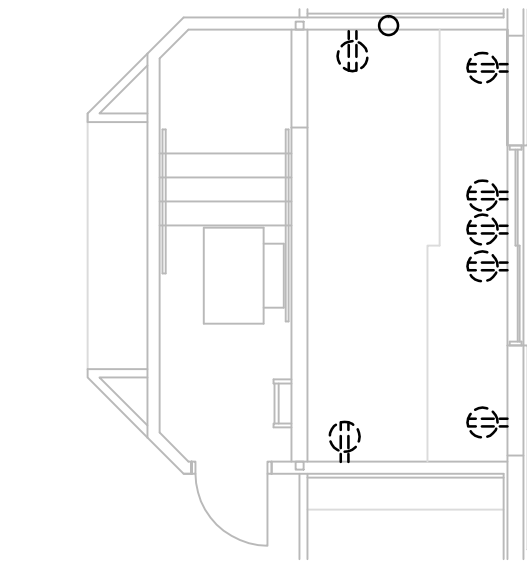
LIGHTING PLAN – THEATRICAL LIGHTING

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 Florida Engineering License Number: 6891

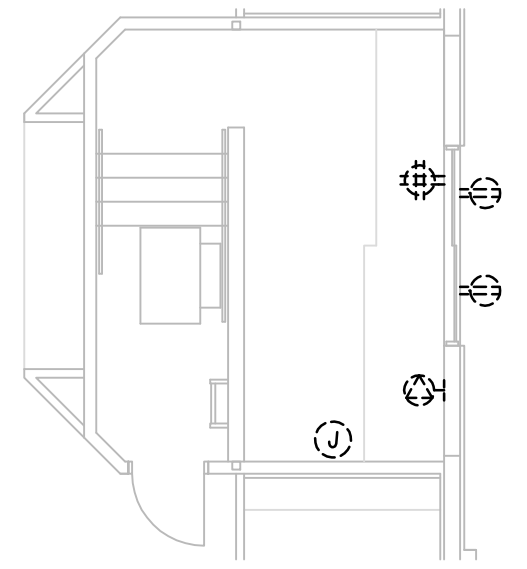
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AGI PROJECT	16020
SHEET	E1.2

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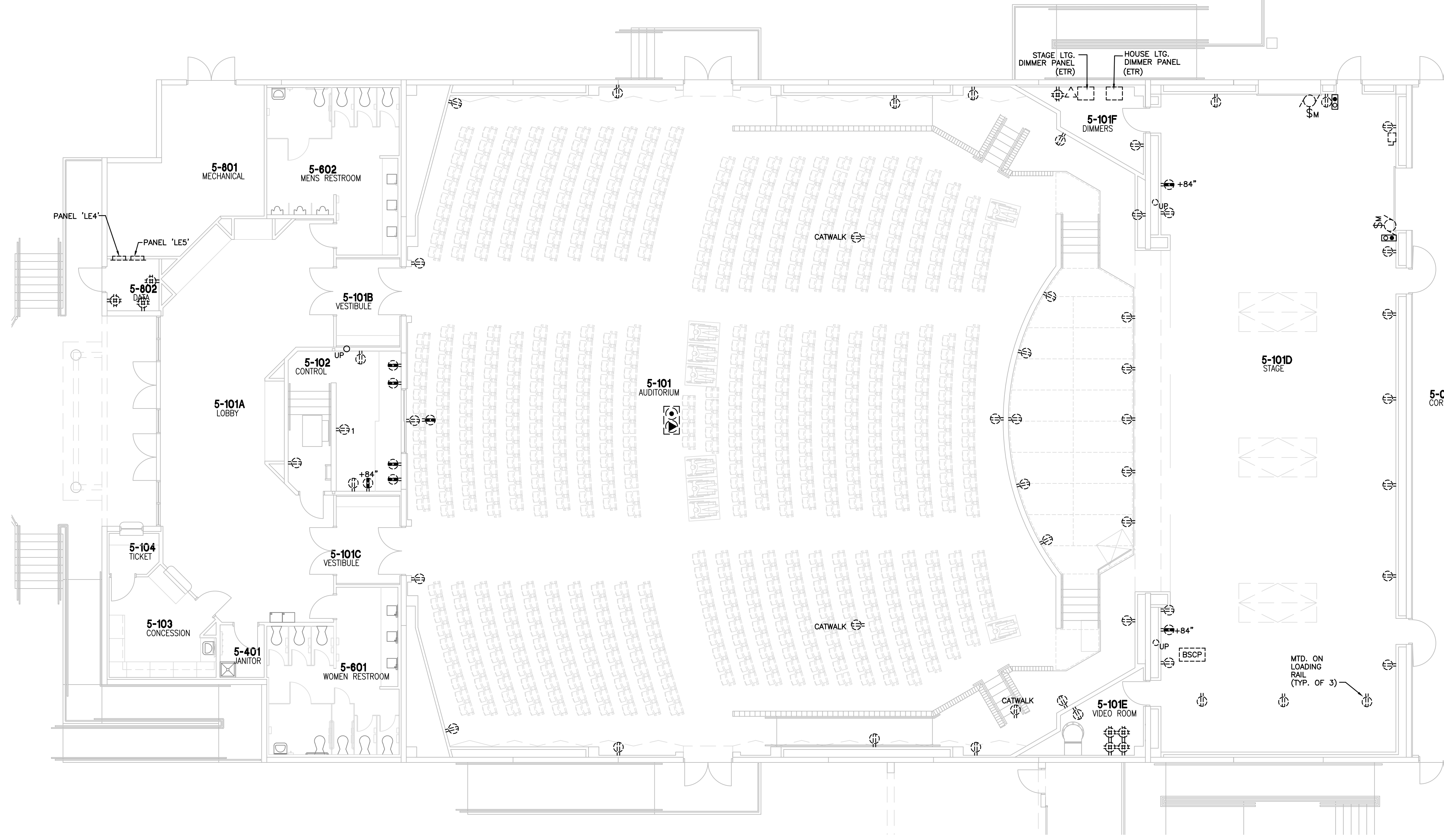
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POWER DEMOLITION PLAN – SPOT
SCALE: 1/8"=1'-0"



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



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

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 RECEPTACLES AND OTHER EQUIPMENT WHICH IS TO REMAIN. VOICE/DATA CABLING SHALL NOT BE SPLICED.
3. DASHED RECEPTACLE AND DEVICES INDICATE EXISTING DEVICES INDICATED WITH (R) ARE TO BE REMOVED. IF NOT INDICATED WITH (R), THE DEVICE IS EXISTING TO REMAIN.

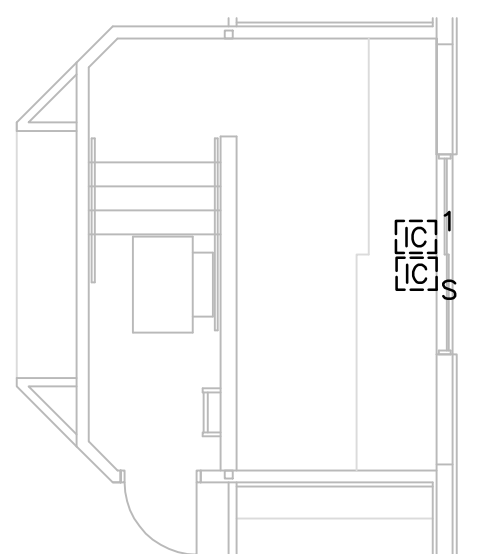
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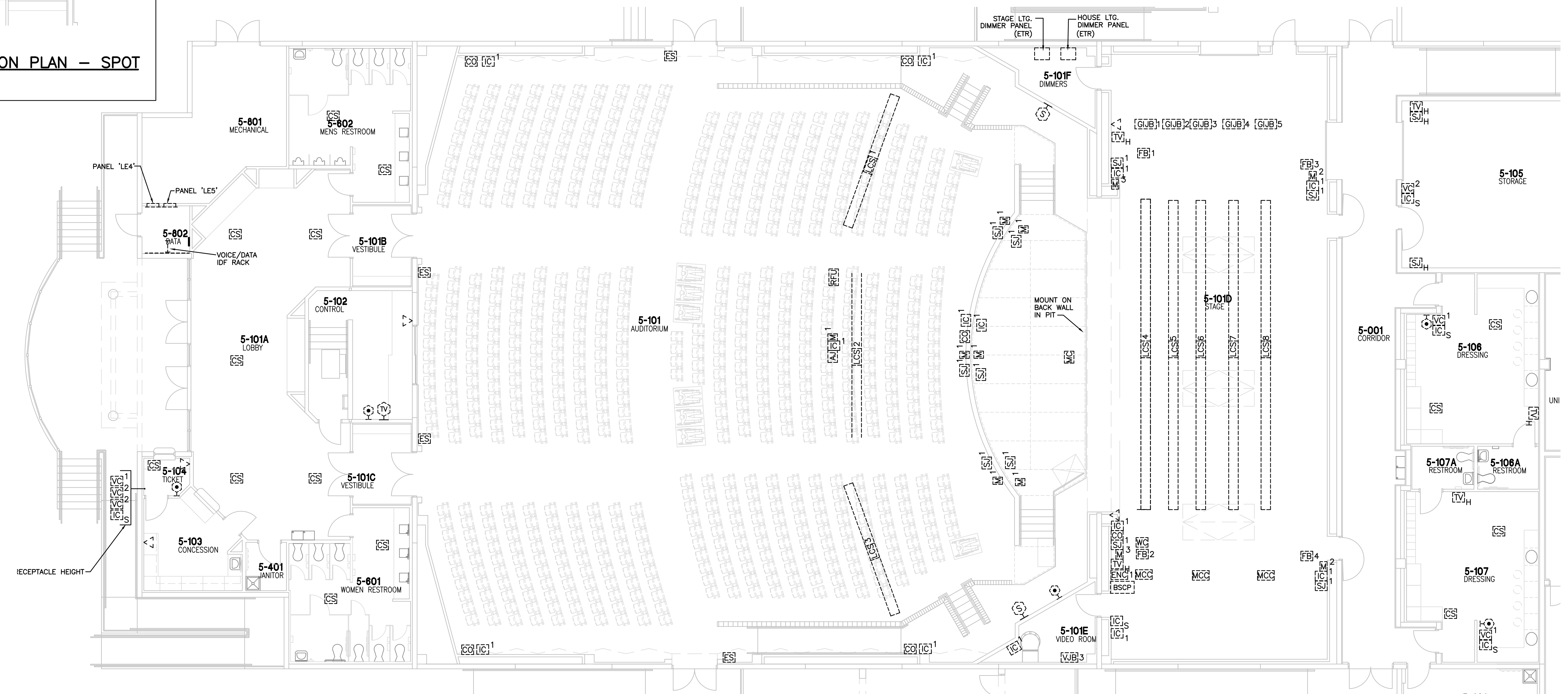
CONSTRUCTION DOCUMENTS
POWER DEMOLITION PLAN – AUDITORIUM
AGI Anston-Greenlees, Inc.
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DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	E2.0

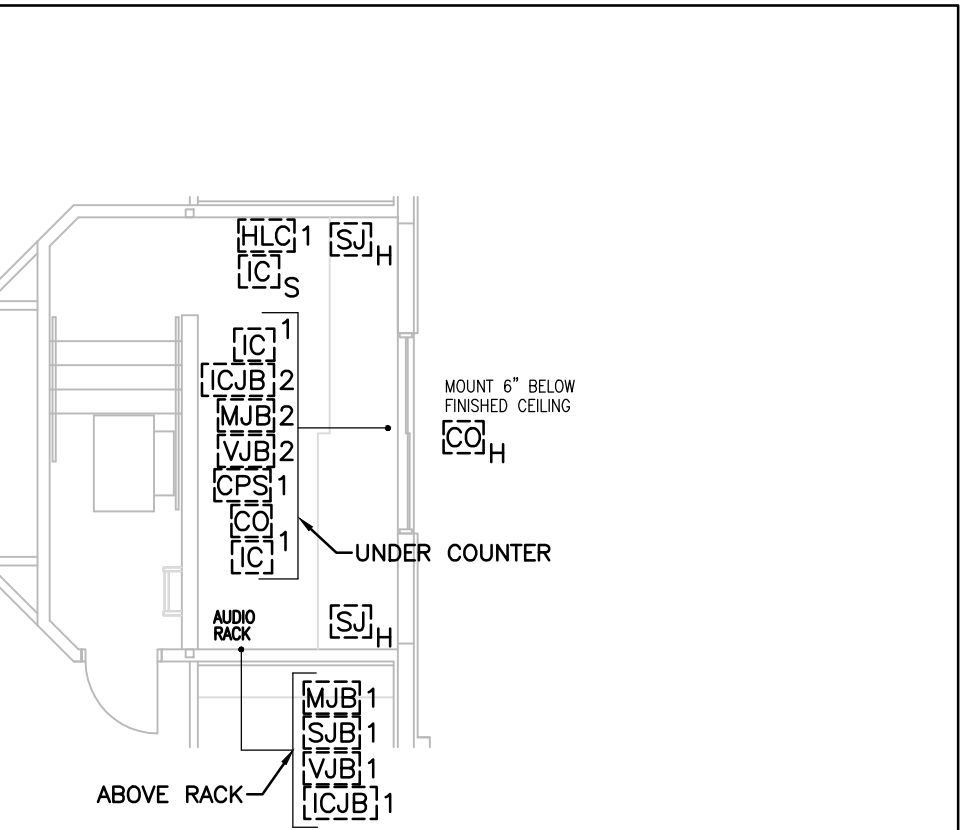
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SYSTEM DEMOLITION PLAN – SPOT
SCALE: 1/8"=1'-0"



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



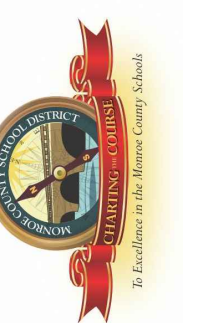
SYSTEM DEMOLITION PLAN – CONTROL ROOM
SCALE: 1/8"=1'-0"

THEATRICAL LEGEND (EXISTING DEVICES):

[A]	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.	[FUB]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.	[FCPB]	INTERCOM PULL BOX.	[FS]X	SPEAKER JACK FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX WITH 1 1/2" EXTENSION RING. *" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ RECEPTACLE HEIGHT.	[VJB]2	VIDEO JUNCTION BOX.
[CC]	CAMERA OUTLET FLUSH MOUNTED 12" x 12" x 6" BOX	[GIB]#	GRID IRON JUNCTION BOX MOUNTED ON GRID.	[LCS]#	STAGE LIGHTING CIRCUIT STRIP #" DENOTES SPECIFIC NAME.	[FS]H	SPEAKER JACK FLUSH MOUNT 4" SQUARE EXTRA DEEP BOX, WITH SINGLE GANG TRIM RING. MOUNTED @ BELOW FINISHED CEILING.	[VJB]3	VIDEO JUNCTION BOX.
[CC]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.	[HLC]1	HOUSE LIGHTING CONTROLLER MOUNTED @ SWITCH HEIGHT.	[M]X	MICROPHONE JACK FLUSH MOUNT 3 1/2" DEEP MASONRY BOX. *" DENOTES NUMBER OF GANGS REQUIRED. MOUNTED @ RECEPTACLE HEIGHT.	[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 6 GANG 3 1/2" DEEP MASONRY BOX, MOUNTED UNDER COUNTER IN CONTROL BOOTH.	[HLP]	HOUSE LIGHTING PROCESSOR	[M]B1	MICROPHONE JUNCTION BOX SURFACE MOUNT 12" x 12" x 6" SCREW COVER BOX MOUNTED ABOVE RACK.	[SPB]	SPEAKER PULL BOX.	[VPB]	VIDEO PULL BOX
[CS]	CEILING SPEAKER.	[IC]X	INTERCOM JACK FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX. *" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ RECEPTACLE HEIGHT.	[M]B2	MICROPHONE JUNCTION BOX SURFACE MOUNT 12" x 12" x 6" SCREW COVER BOX MOUNTED UNDER COUNTER.	[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]S	INTERCOM SPEAKER STATION MOUNTED @ SWITCH HEIGHT.	[MPB]	MICROPHONE PULL BOX	[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.	[PB]#	STAGE LIGHTING CIRCUIT STRIP #" DENOTES SPECIFIC NAME.	[V]X	VOLUME CONTROL FLUSH MOUNT 4" SQUARE, 2 1/8" DEEP BOX. *" DENOTES NUMBER OF GANGS FOR TRIM RING. MOUNTED @ SWITCH HEIGHT.		

- DEMOLITION GENERAL NOTES:**
- 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.
 - SPLICE AND EXTEND CIRCUITS AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO EXISTING, LUMINAIRES, DEVICES AND OTHER EQUIPMENT WHICH IS TO REMAIN. VOICE/DATA CABLING SHALL NOT BE SPLICED.
 - DASHED FIXTURES, DEVICES AND BOXES INDICATE EXISTING. DEVICES INDICATED WITH (R) ARE TO BE REMOVED. IF NOT INDICATED WITH (R), THE DEVICE IS EXISTING TO REMAIN.

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Theatrical Lighting and Sound Improvements**
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Monroe County School District
 241 Trumbo Rd.
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CONSTRUCTION DOCUMENTS

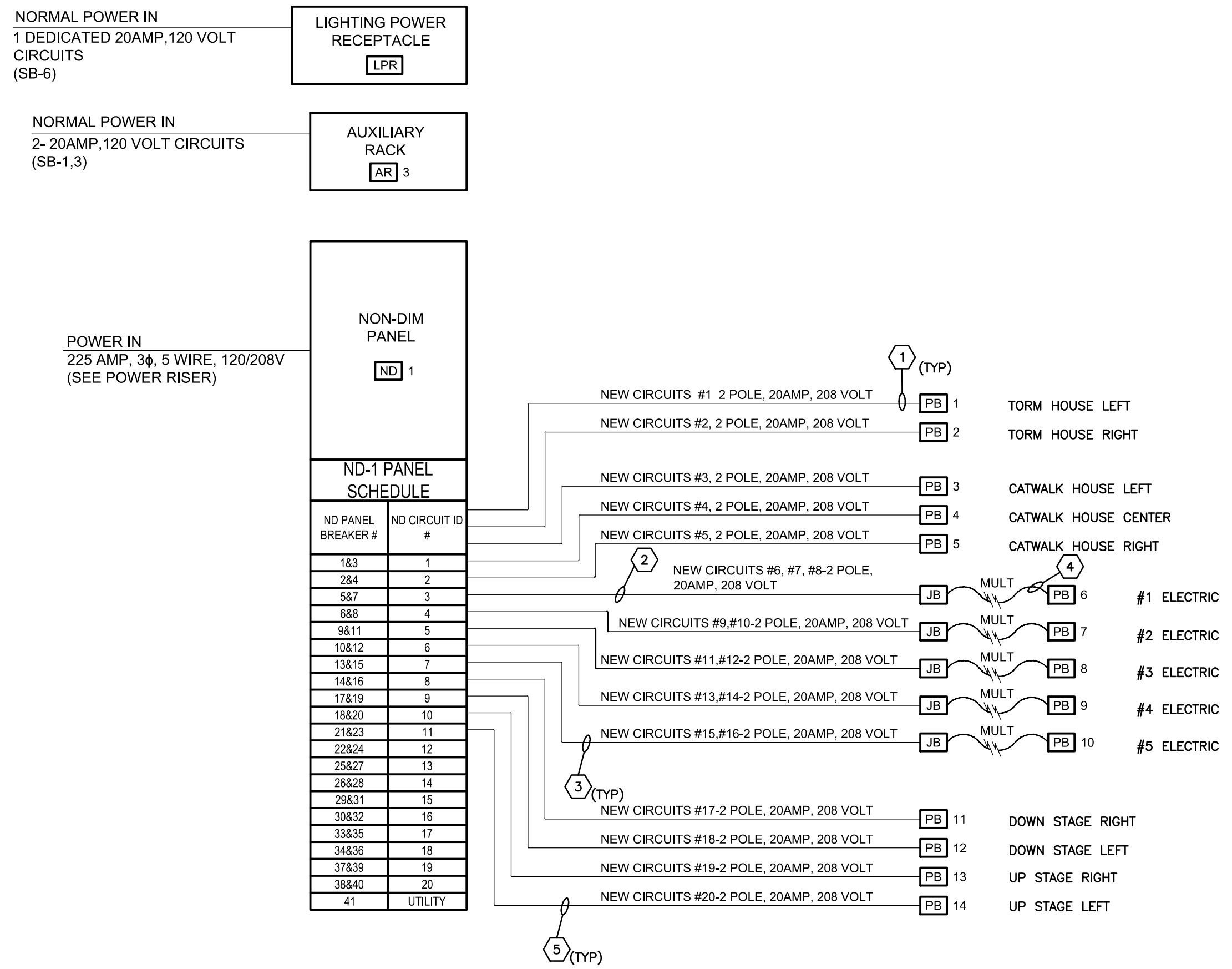
SYSTEM DEMOLITION PLAN – AUDITORIUM

AGI
 Anston-Greenlees, Inc.
 Mechanical & Electrical Consulting Engineers
 1113 West Harbor Avenue, Tampa, FL 33622 (813) 966-9919
 Email: agi@anston-greenlees.com Florida Engineering License Number: 6891

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DATE	2/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	E3.0

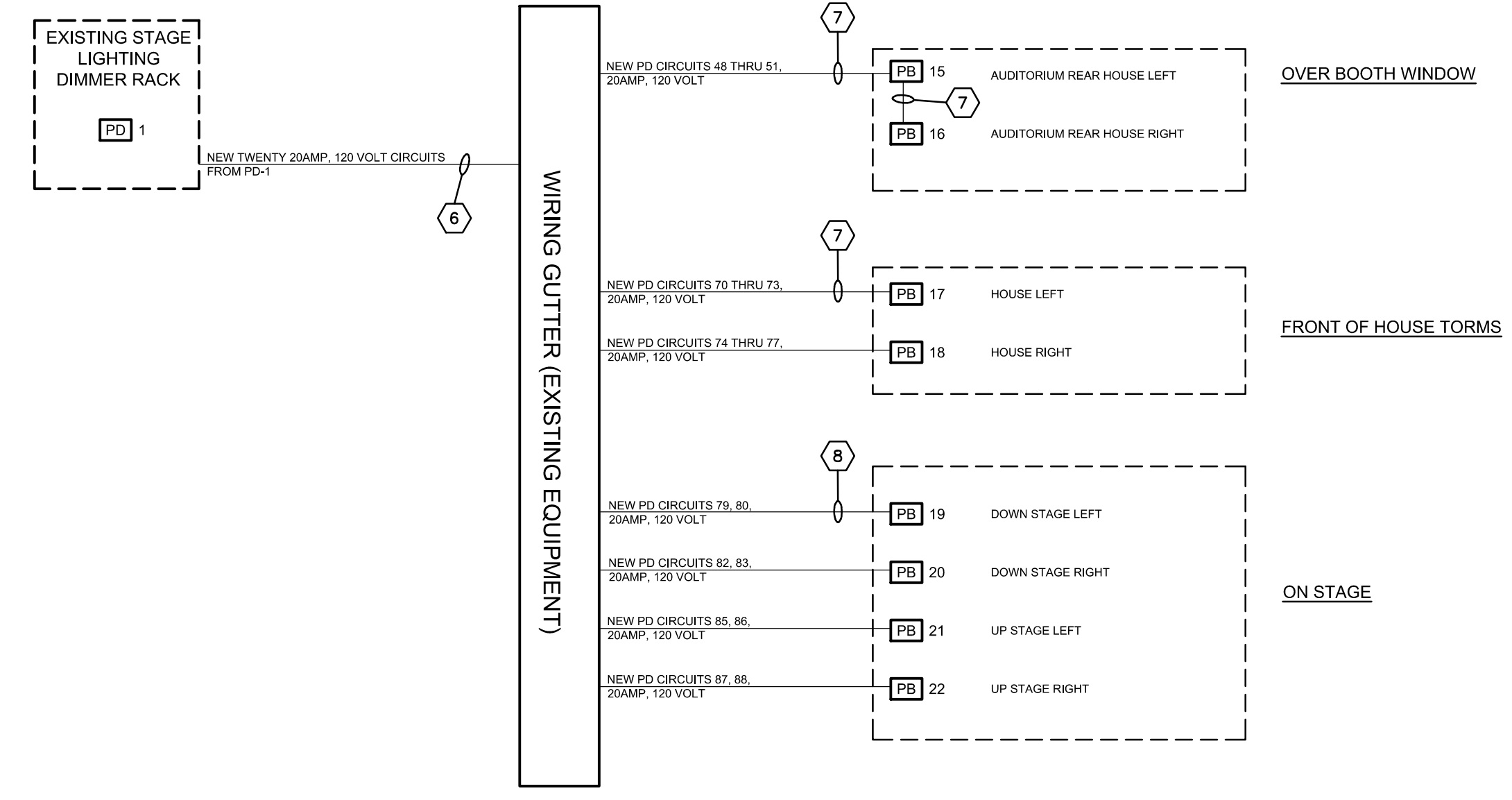
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Plotted by: tm Feb 17, 2017 4:57pm

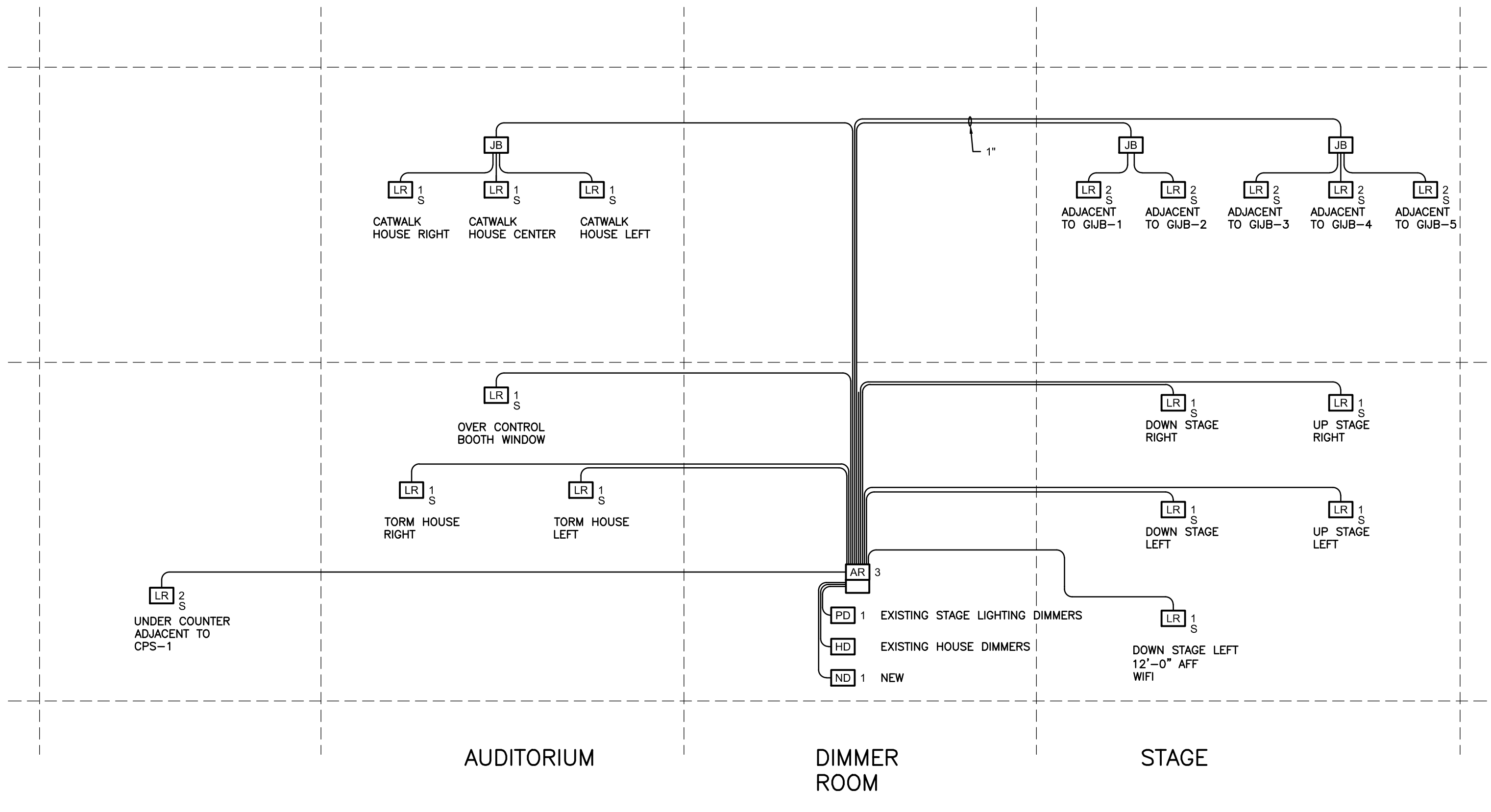


POWER AND NON-DIM CIRCUIT DISTRIBUTION RISER DIAGRAM
NOT TO SCALE

- 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.



NEW STAGE DIMMING CIRCUIT DISTRIBUTION RISER DIAGRAM
NOT TO SCALE



STAGE LIGHTING SYSTEM CONTROL CONDUIT RISER DIAGRAM
NOT TO SCALE

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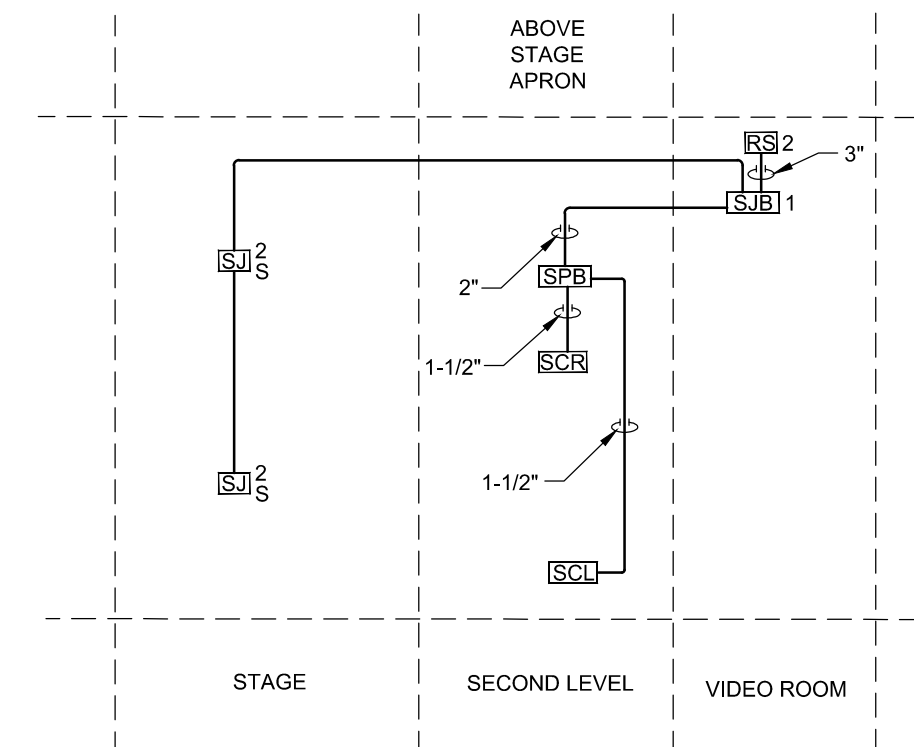
CONSTRUCTION DOCUMENTS
 SYSTEM RISER DIAGRAMS
Anston-Greenlee, Inc.
 Mechanical & Electrical Consulting Engineers
 1115 West Harbor Avenue, Tampa, FL 33622 | 813.288.6149
 Email: agi@anston-greenlee.com Florida Engineering License Number: 6761
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SCALE	AS NOTED
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AV SYSTEM POWER:

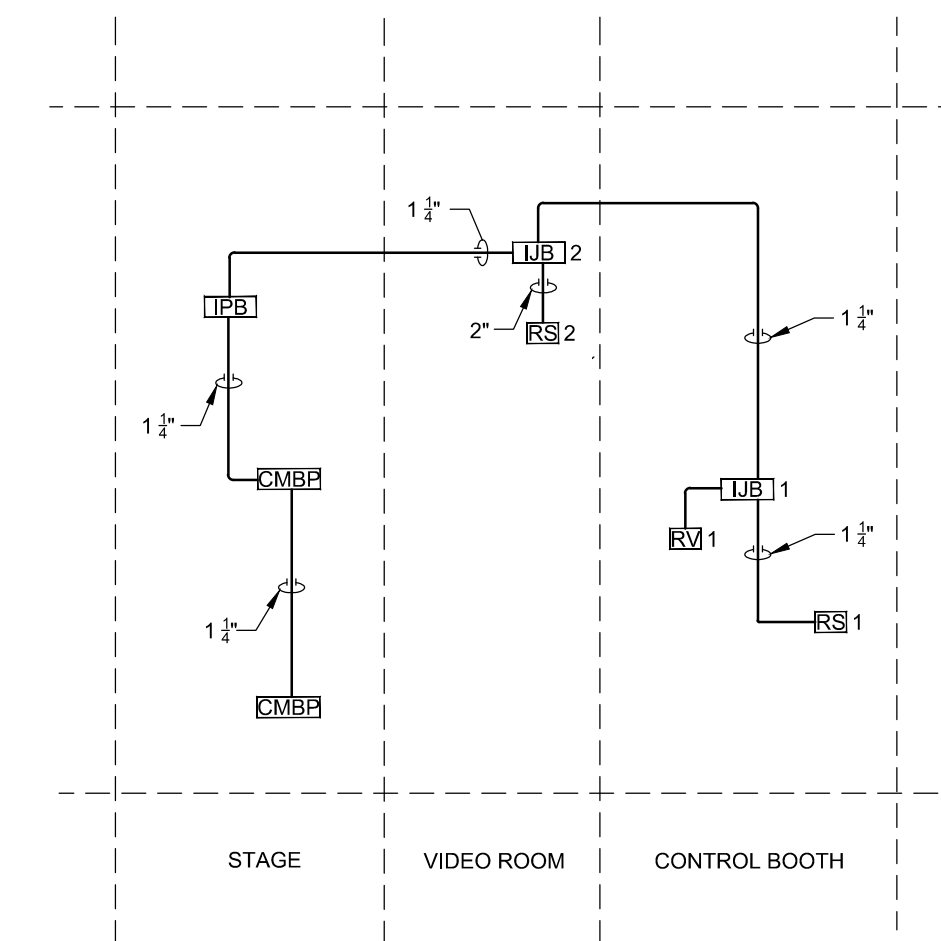
1. EQUIPMENT RACK POWER: RACK POWER SHALL TERMINATE IN A JBOX WITHIN RACK. THIS JBOX AND ALL INTERNAL RACK POWER WIRING WILL BE PROVIDED BY THE SYSTEM CONTRACTOR. ALL OTHER WIRING, CONDUIT, ETC SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
 - 1.1. SOUND RACK 2 – TWO DEDICATED 20A CIRCUITS AND 5 DEDICATED 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.

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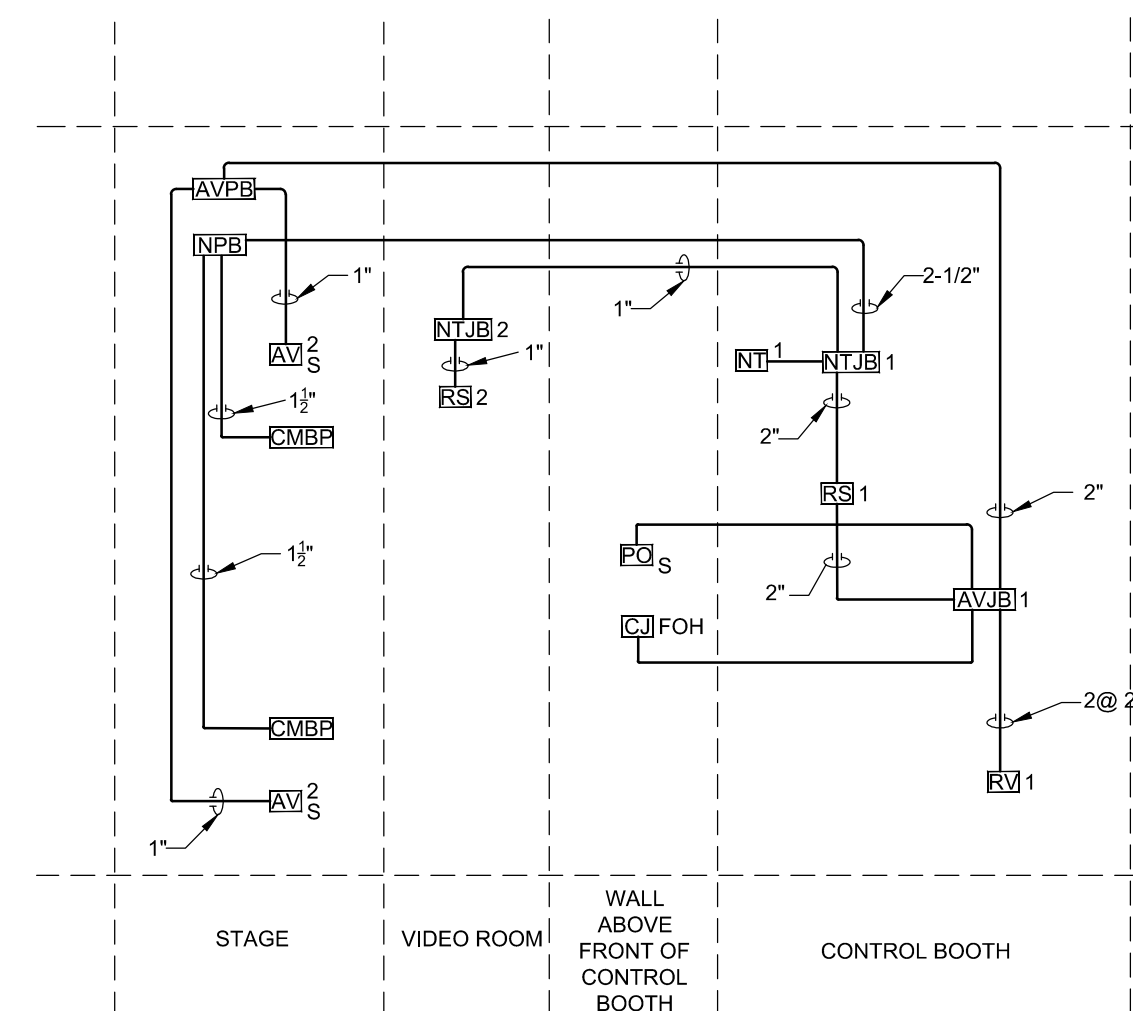
- NOTES: SPEAKER SYSTEMS RISERS**
1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 3. ALL CONDUIT 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.

SPEAKER SYSTEM RACEWAY RISER DIAGRAM NOT TO SCALE



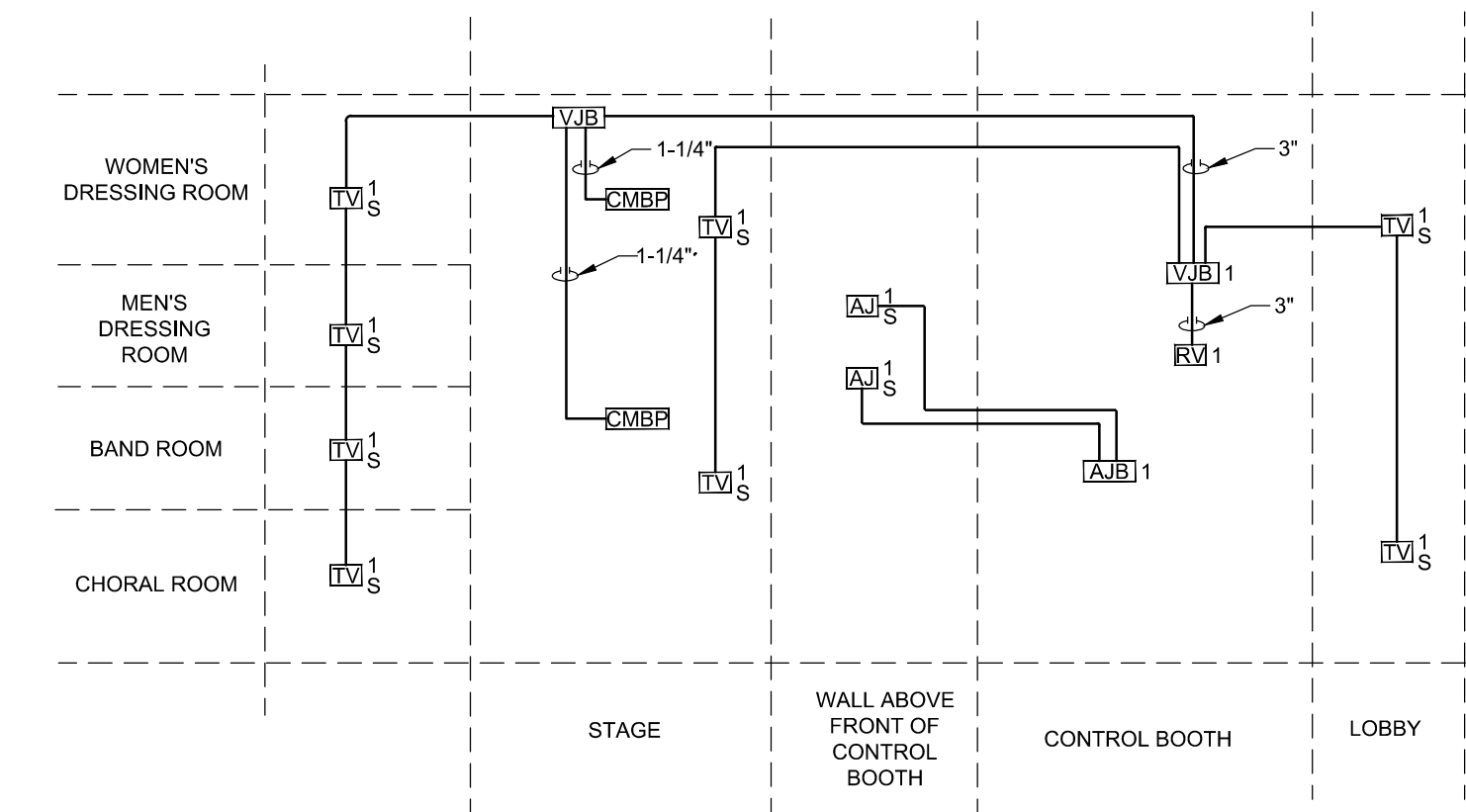
- NOTES: INTERCOM / LINE LEVEL**
1. ALL CONDUIT, BACKBOXES AND ENCLOSURES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. REVIEW ANY RELATED RISER DIAGRAM, DEVICE LEGEND, FLOOR PLAN, CIRCUIT DISTRIBUTION, OR OTHER CONTRACT DOCUMENT FOR DETAILS.
 3. ALL CONDUIT 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.

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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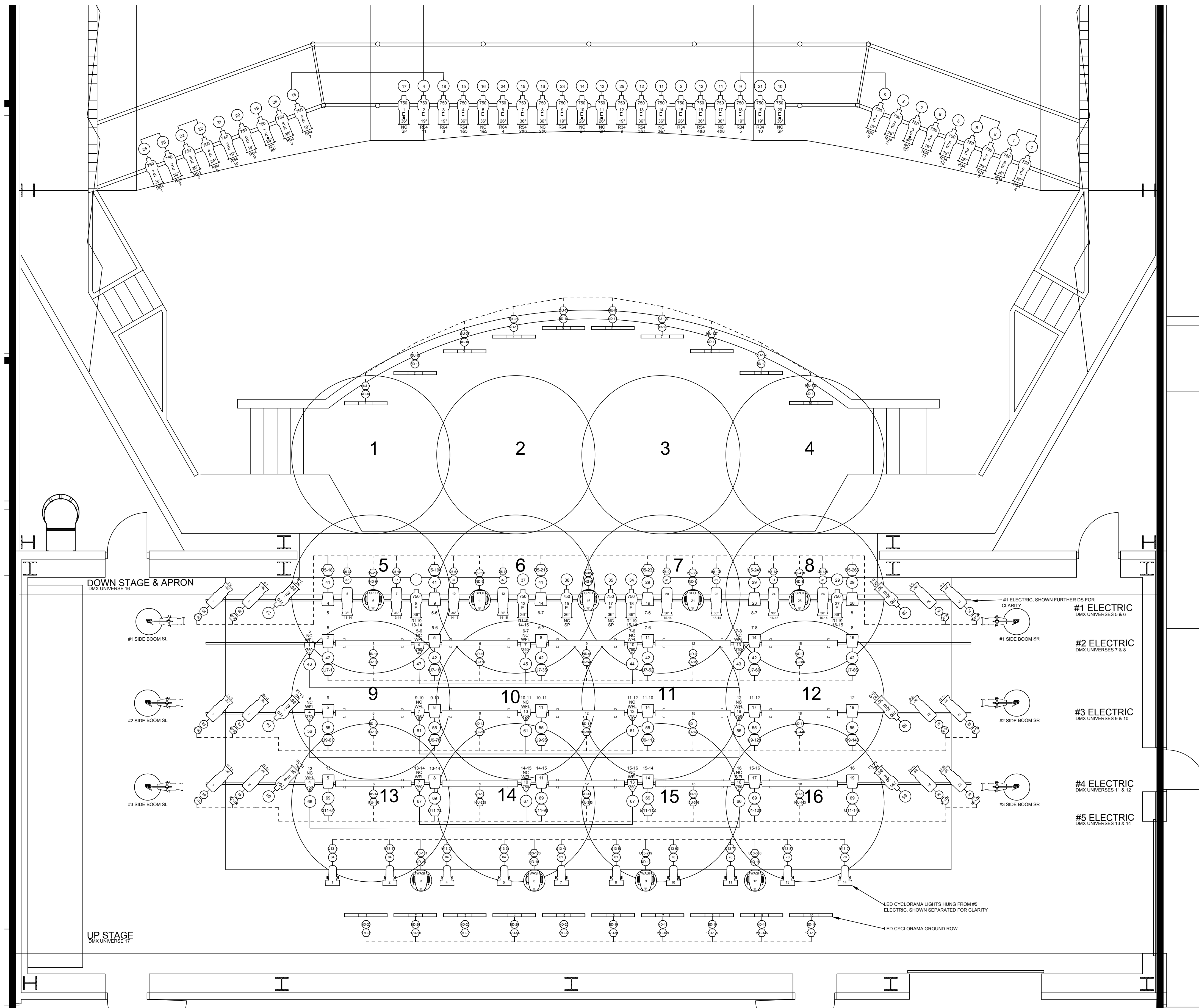
CONSTRUCTION DOCUMENTS

SYSTEM RISER DIAGRAMS

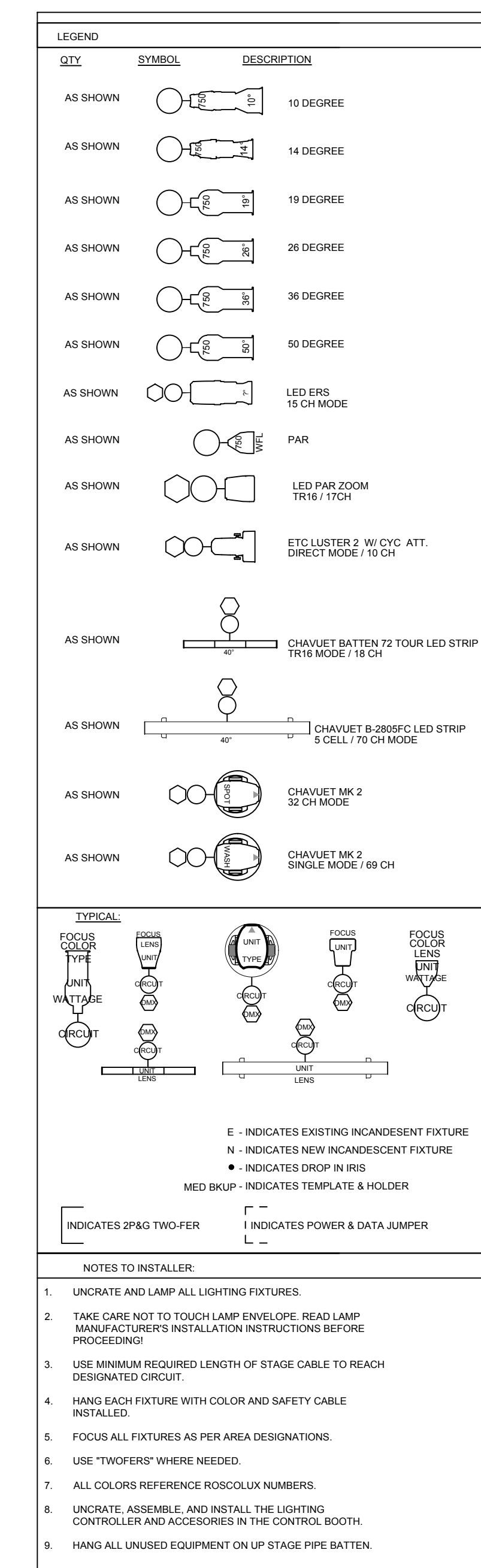
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Fax: (813) 964-9420
Florida Engineering License Number 6061

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E4.1



STAGE LIGHTING - LIGHT PLOT
SCALE: 1/4"=1'-0"



STAGE LIGHTING LEGEND
SCALE: NA

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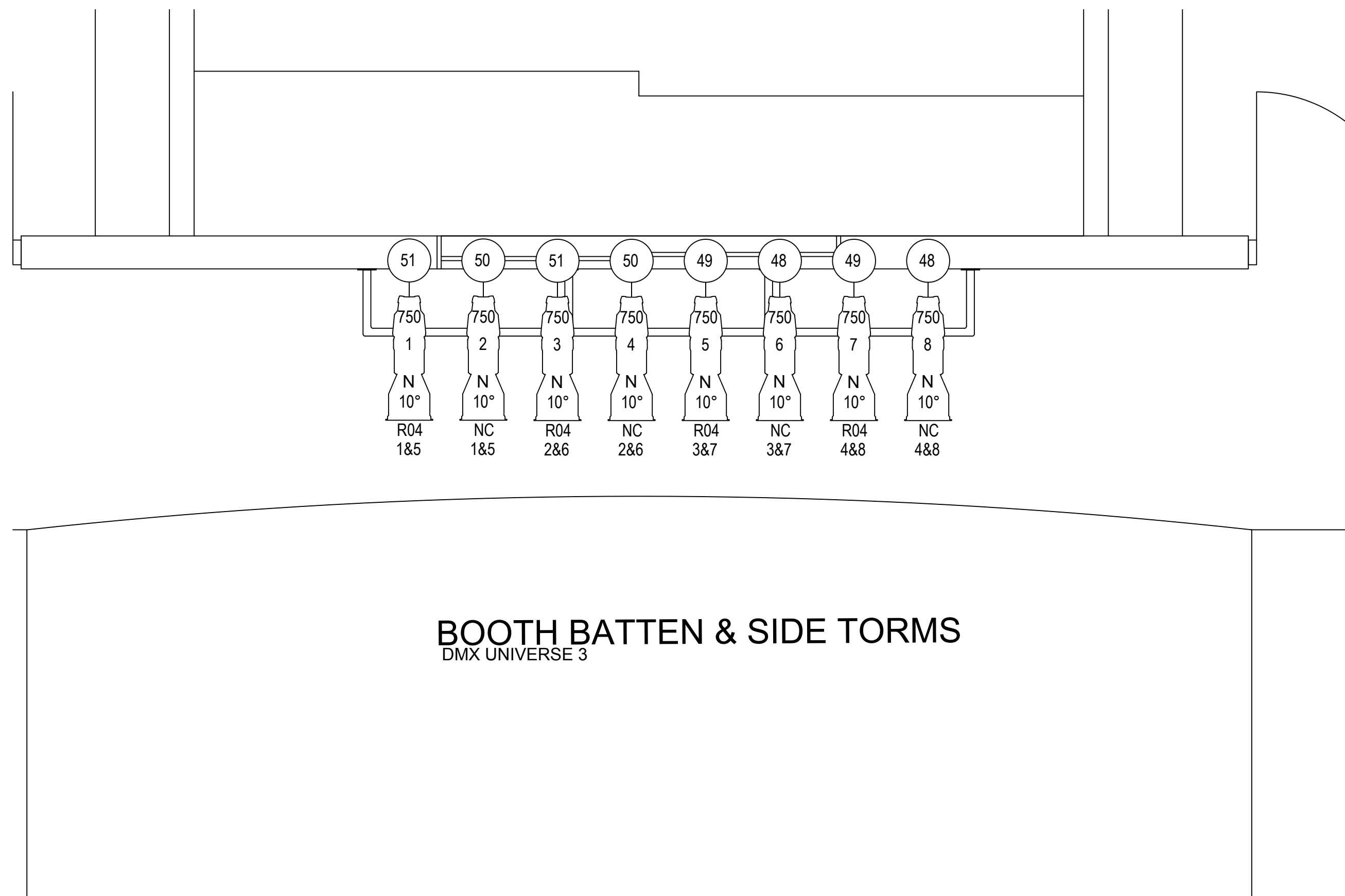
CONSTRUCTION DOCUMENTS
 STAGE LIGHTING-LIGHT PLOT

Anston-Greenlees, Inc.
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 1118 West Fisher Avenue, Tampa, FL 33627
 (813) 281-4400
 Florida Engineering Business Number 0097

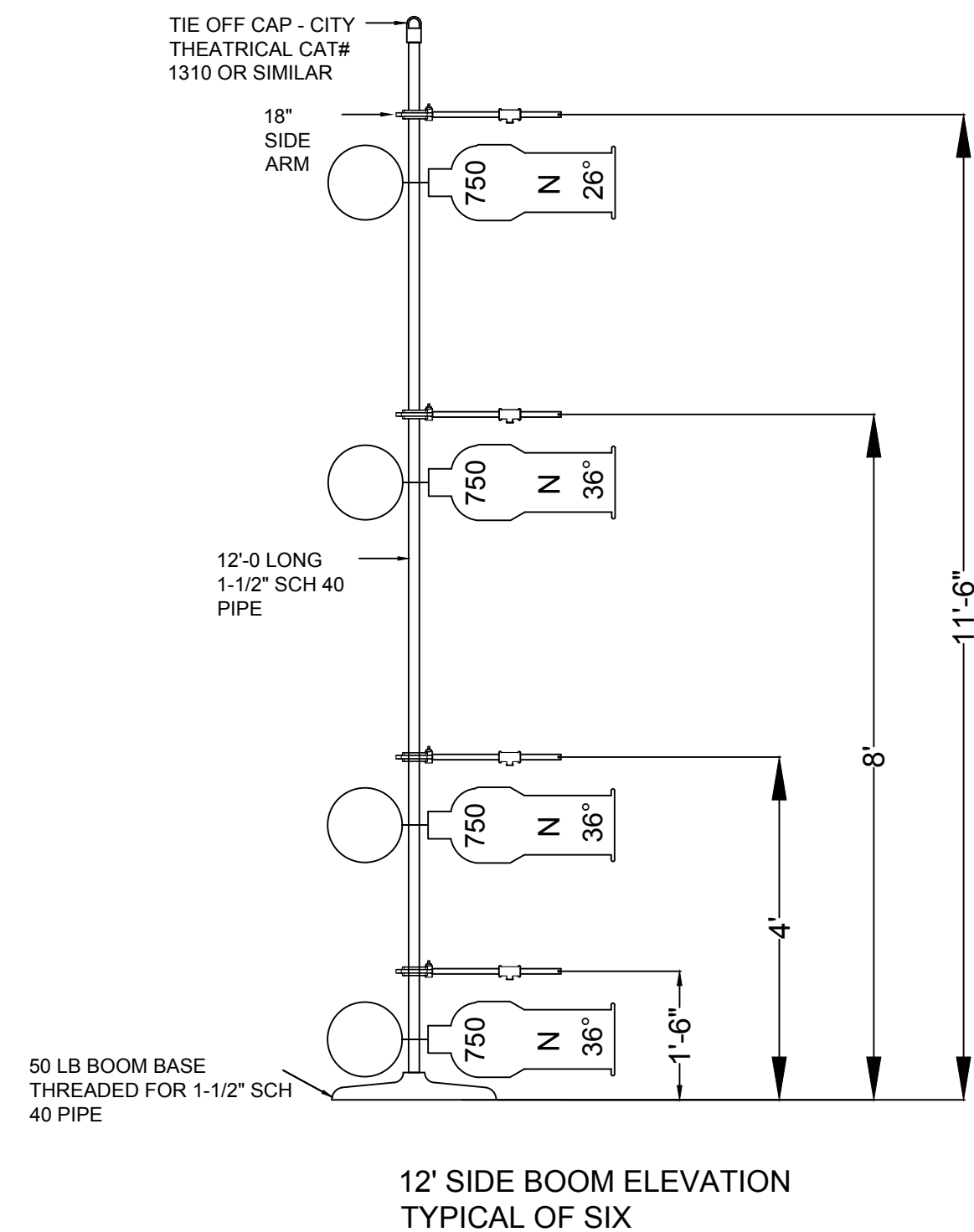
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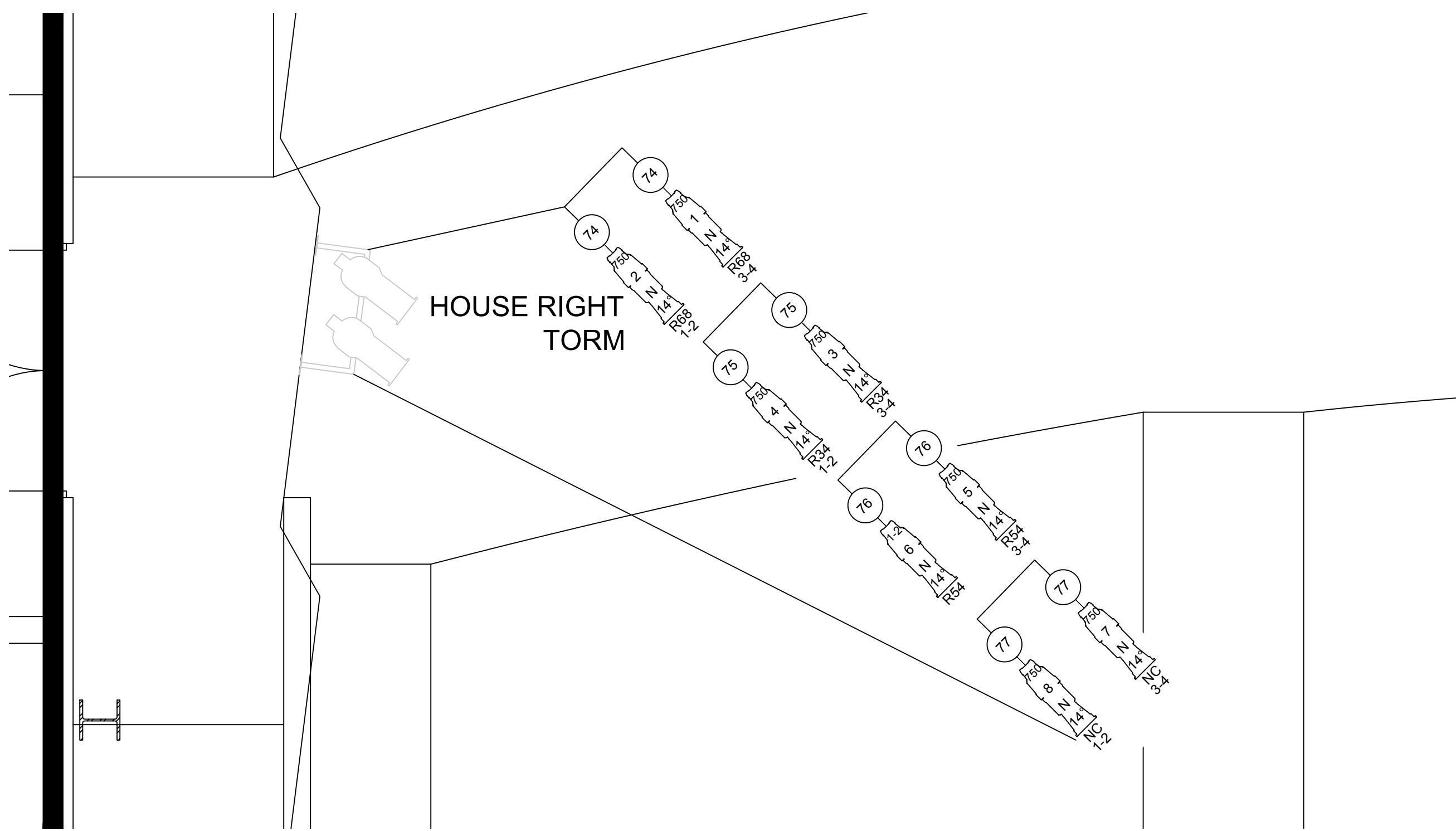
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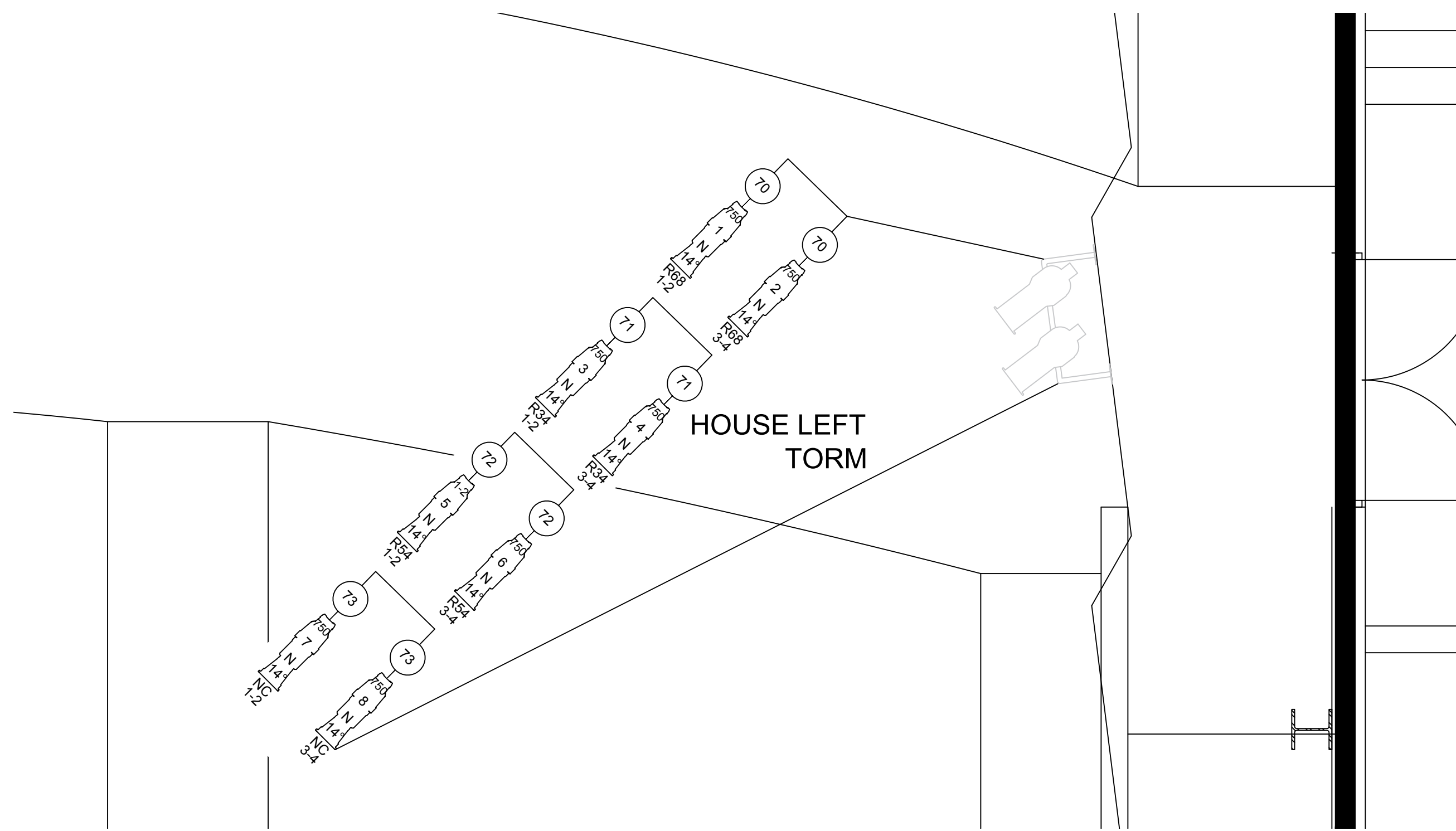
STAGE LIGHTING - OVER BOOTH BATTEN
 SCALE: 1/2"=1'-0"



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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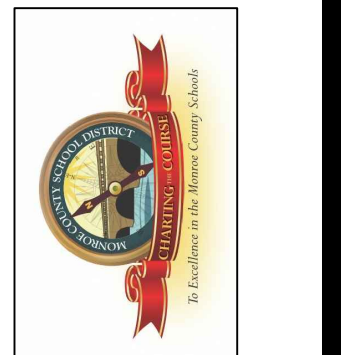
STAGE LIGHTING - LIGHT PLOT

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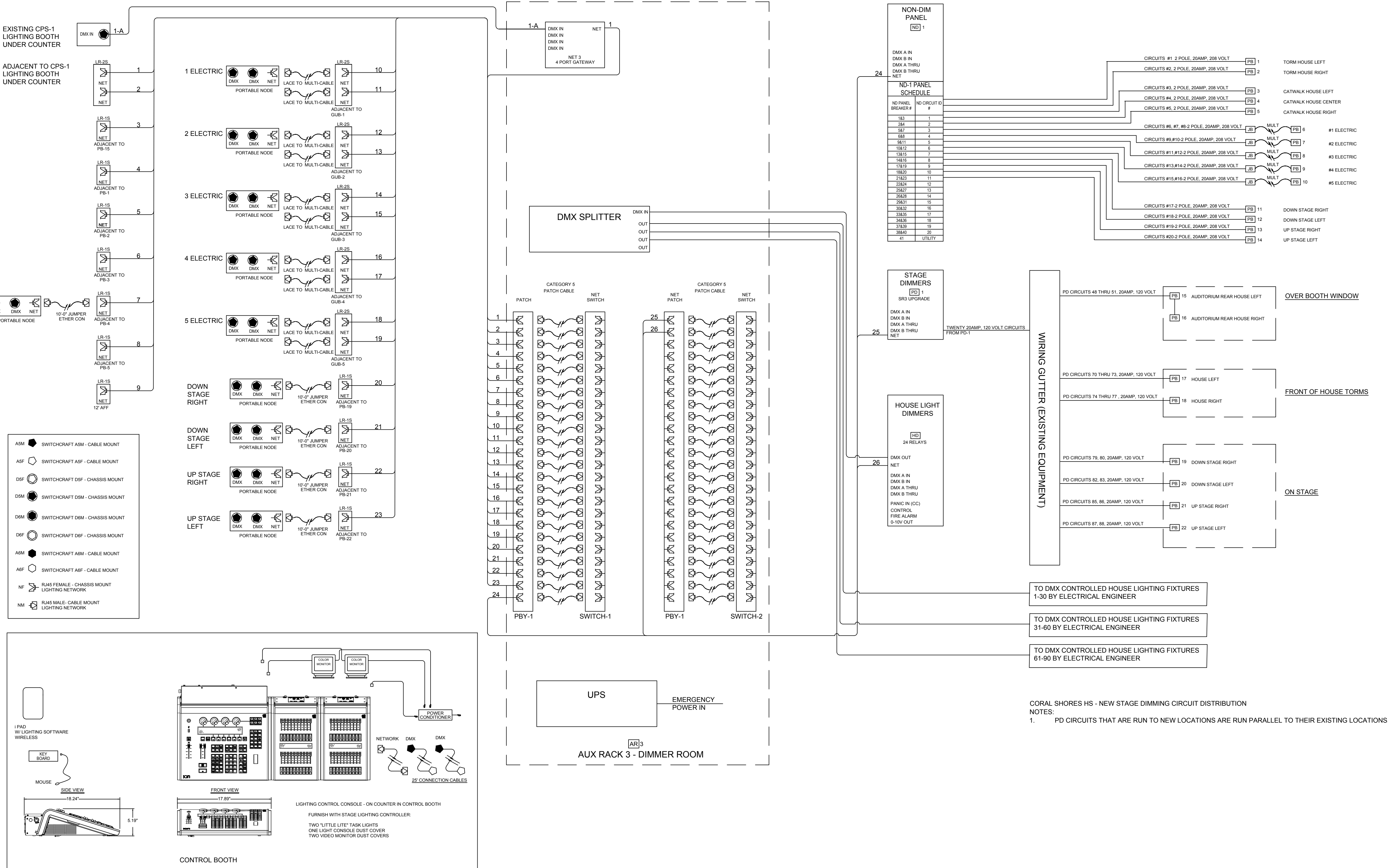
CONSTRUCTION DOCUMENTS

STAGE LIGHTING

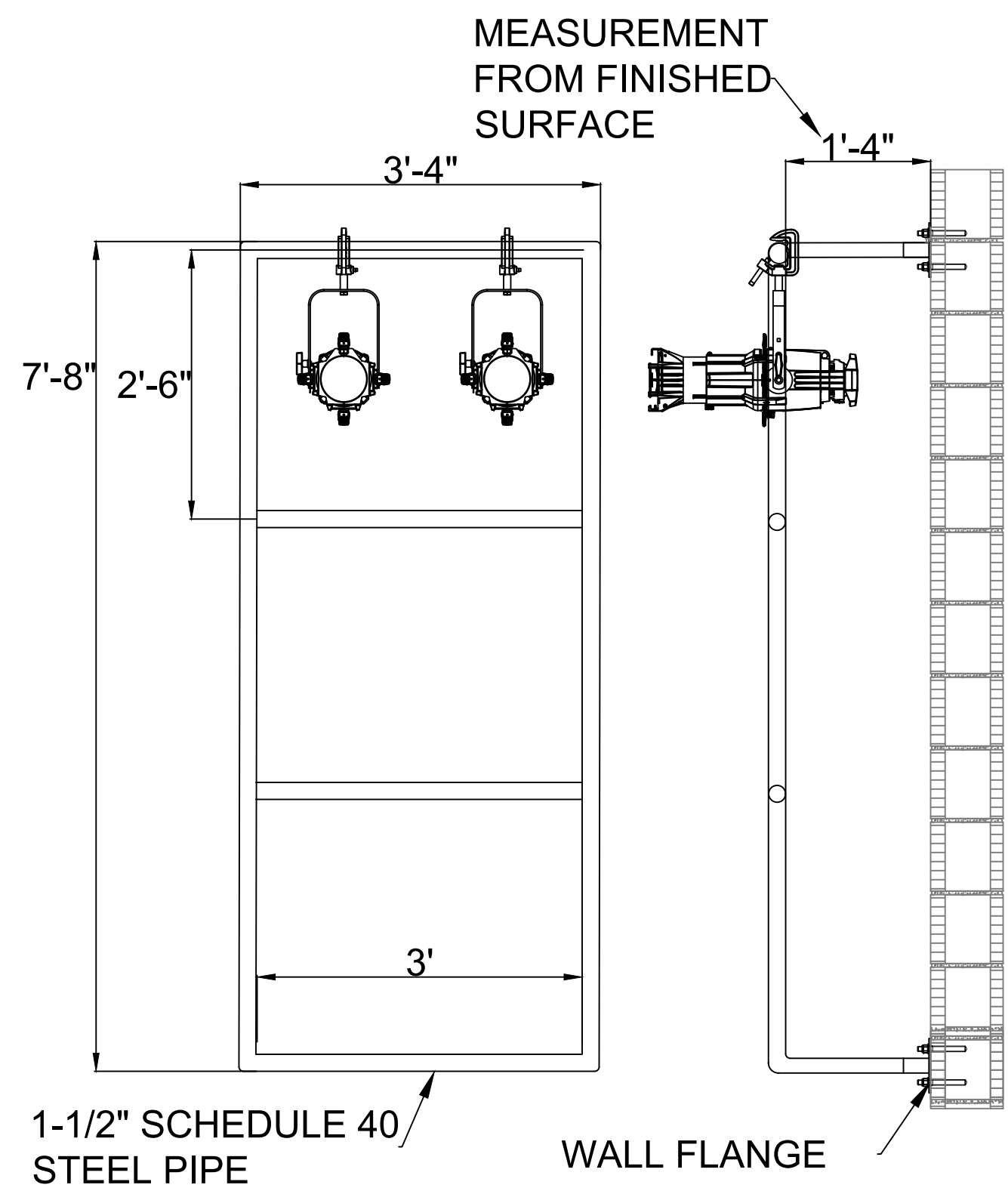
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Mechanical & Electrical Consulting Engineers

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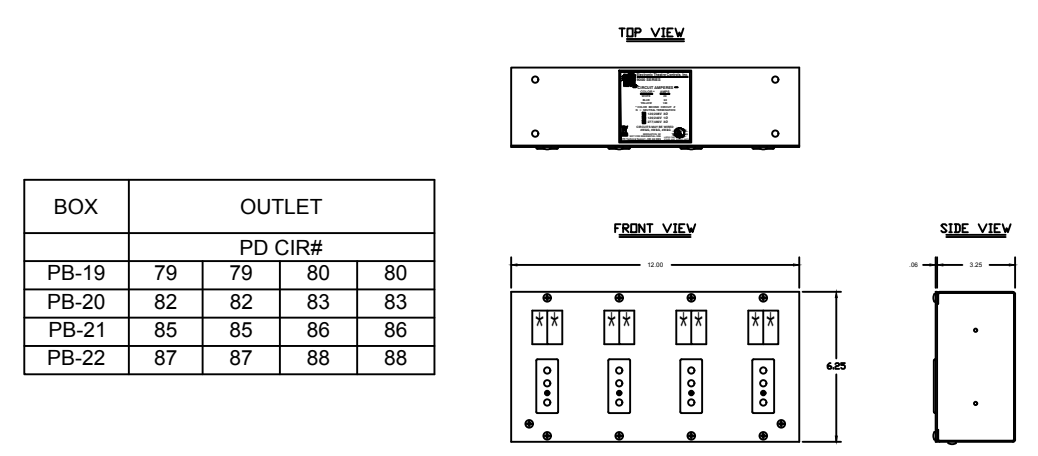
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AGI PROJECT 16020
SHEET TL1.3



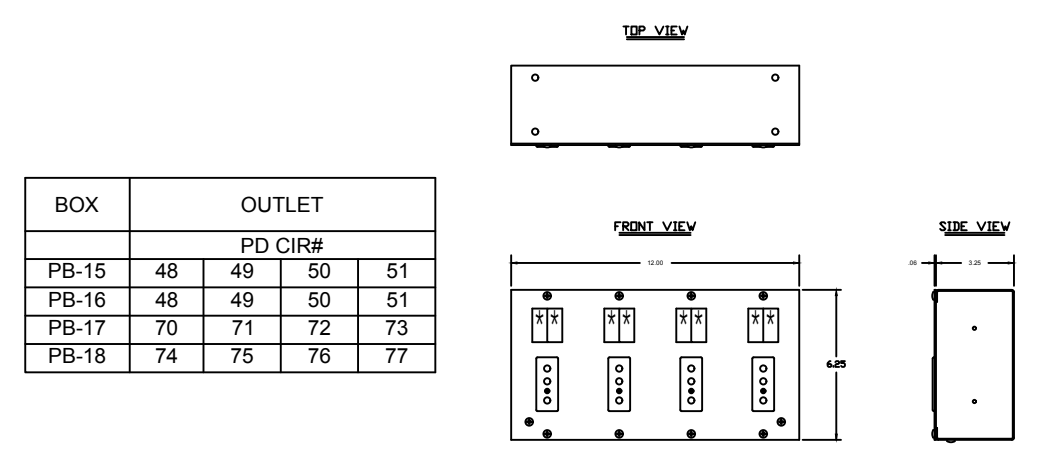
STAGE LIGHTING - SYSTEM ONE LINE
SCALE: NA



TORM LADDER DETAIL
SCALE: 3/4"=1'-0"



TWO CIRCUIT SURFACE MOUNT OUTLET BOX

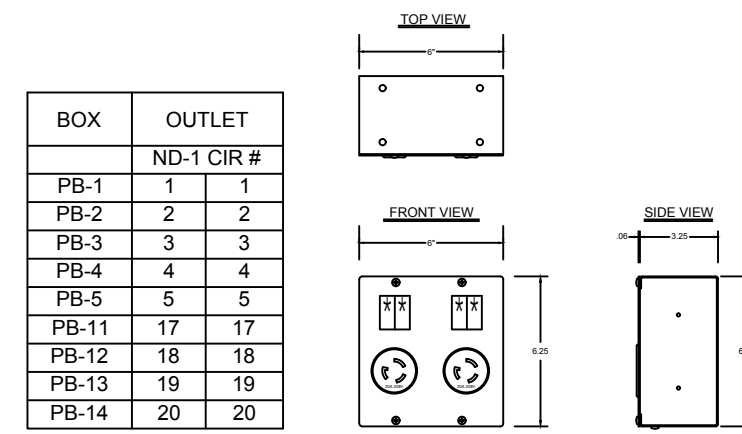


FOUR CIRCUIT SURFACE MOUNT OUTLET BOX

PD PLUGGING BOXES
SCALE: 1-1/2"=1'-0"

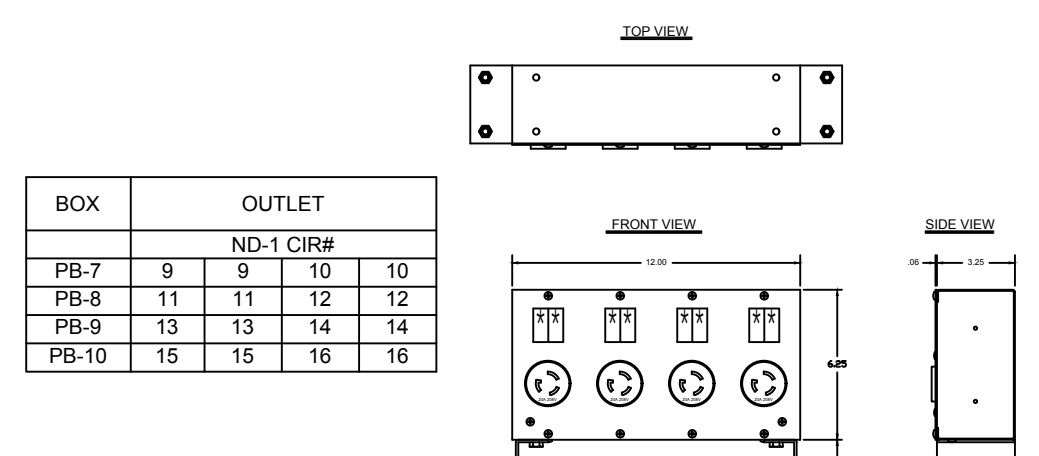
NOTES:
1.) OUTLET BOX IS @ LISTED.
2.) BACK BOX AND FACE PANEL ARE 16GA. STEEL. FINISH SHALL BE FINE TEXTURE, SCRATCH RESISTANT, MATTE BLACK POWDER COAT.
3.) CIRCUITS ARE INDIVIDUALLY DESIGNATED WITH 3/4" DIE CUT ADHESIVE LABELS PER THE DESIGNATION CHART.
4.) ALL RECEPTACLES WITH PD#s SHALL HAVE 2P&G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

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.



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.



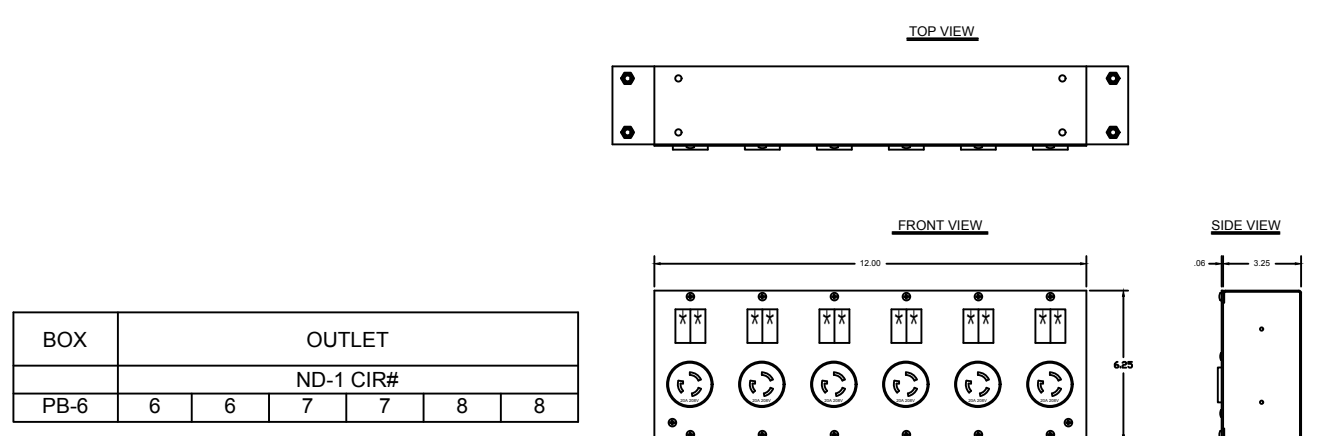
TWO CIRCUIT PIPE MOUNT OUTLET BOX

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.

LITTLE LITE DUAL RACK LIGHT
BLANK
4 PORT GATWAYINPUT
DMX SPLITTER
BLANK
NETWORK SWITCH-1
NETWORK SWITCH-2
BRUSH PANEL
NETWORK PATCH BAY
BLANK
4U DRAWER
UPS EXTERNAL BATTERY
UPS
24 U RACK

AUXILIARY RACK (AR-1)
DIMMER ROOM

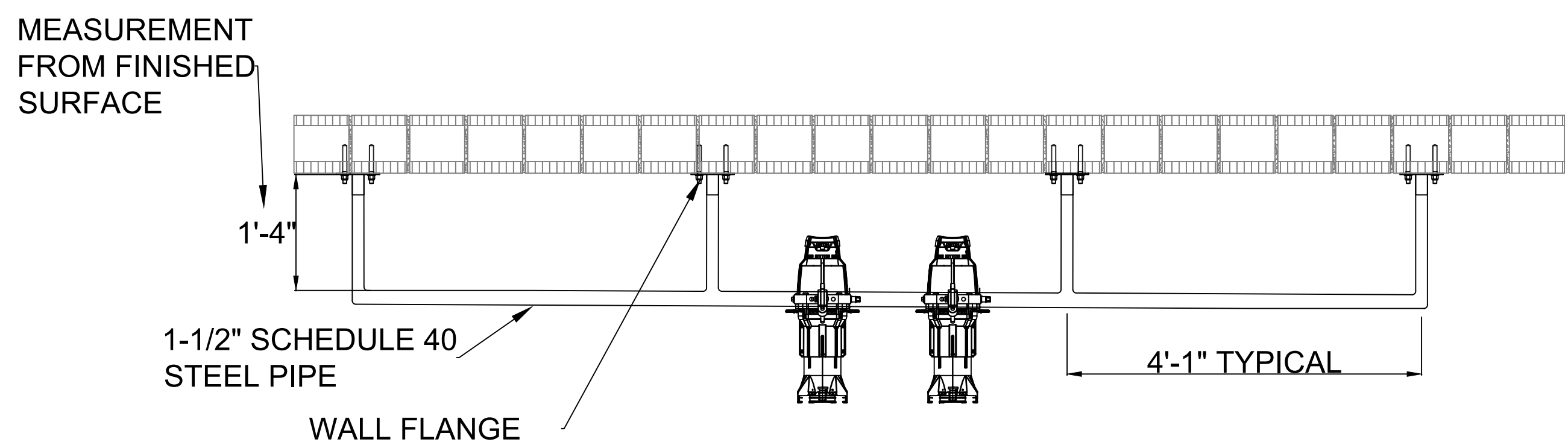
AUXILIARY RACK
SCALE: 1"=1'-0"



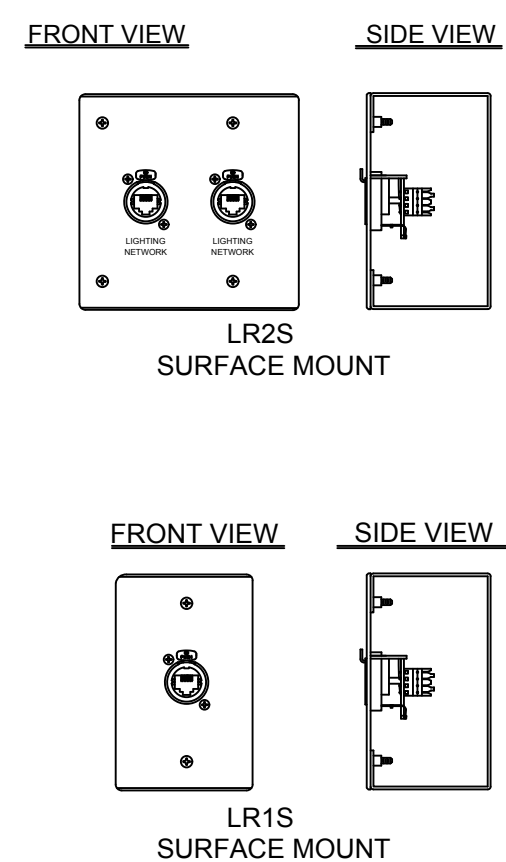
THREE CIRCUIT PIPE MOUNT OUTLET BOX

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"

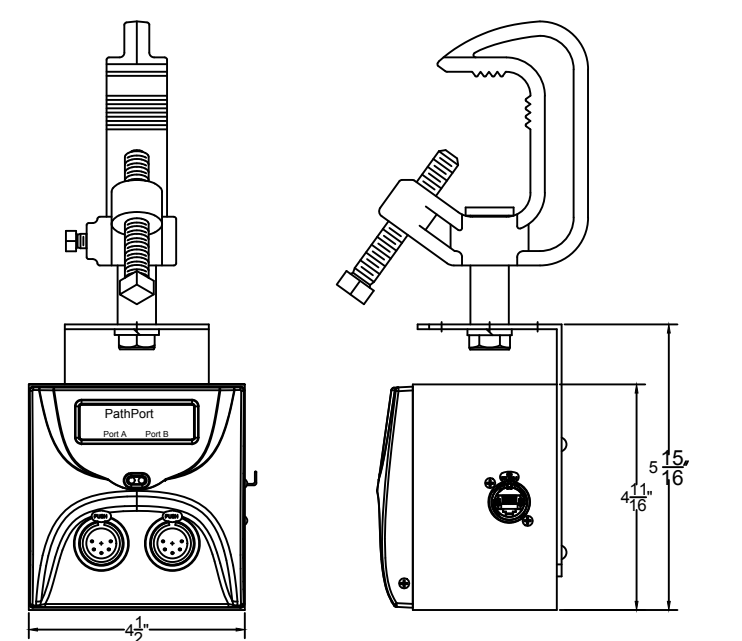


OVER BOOTH BATTEN DETAIL
SCALE: 1"=1'-0"



STAGE LIGHTING NETWORK DETAIL
SCALE: 3"=1'-0"

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.



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.

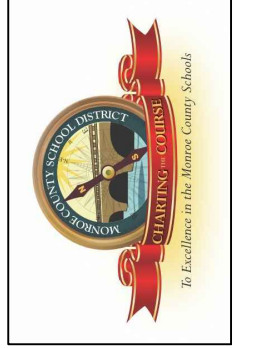
REVISIONS	BY

Coral Shores High School
Theatrical Lighting and Sound Improvements
89901 Old Highway
Tavernier, FL 33070
Monroe County School District
241 Trumbo Rd.
Key West, Florida 33040

CONSTRUCTION DOCUMENTS
STAGE LIGHTING DISTRIBUTION & DETAILS

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1114 West Hobart Avenue, Tampa, FL 33607
Phone: (813) 988-4600
Fax: (813) 988-4601
Florida Engineering Business Number 0604

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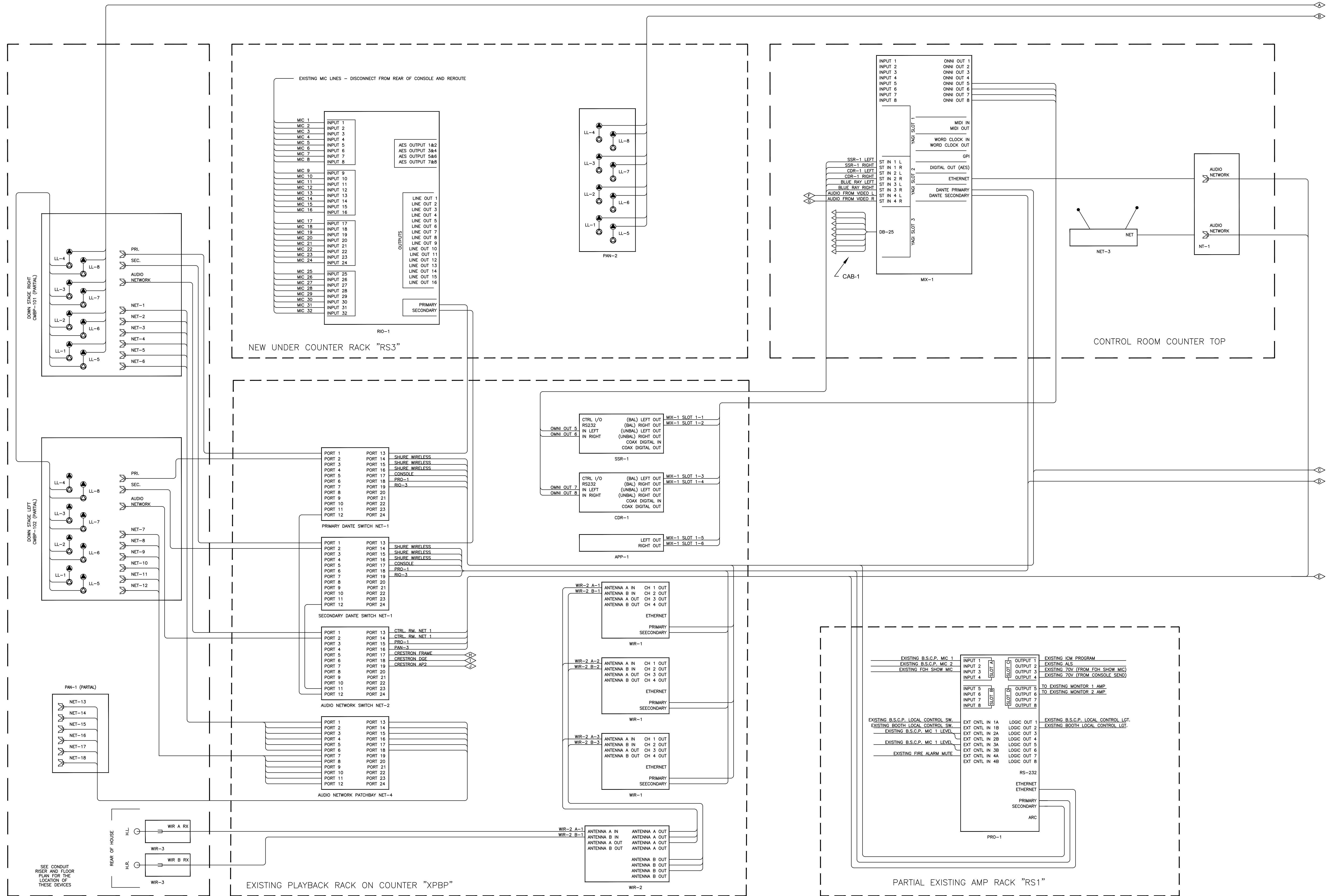
CONSTRUCTION DOCUMENTS

SOUND SYSTEM ONE—LINE 1

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Hunter Avenue, Tampa, FL 33622-1433
Phone: 813-288-1919
Fax: 813-288-1920
Florida Engineering Business Number: 0001

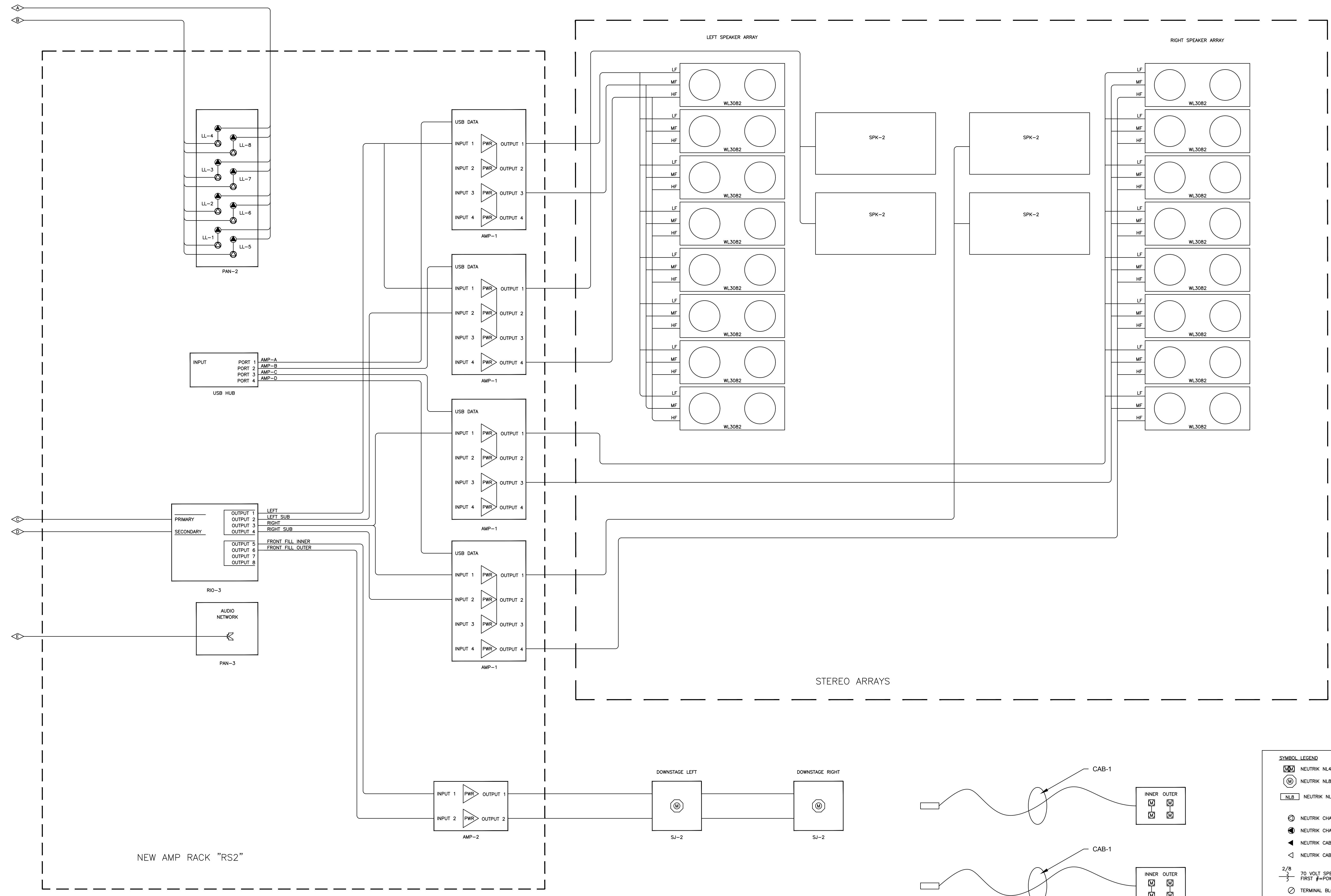
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TS1.1




SOUND SYSTEM ONE—LINE 1
SCALE: NTS

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CONSTRUCTION DOCUMENTS

SOUND SYSTEM ONE-LINE 2

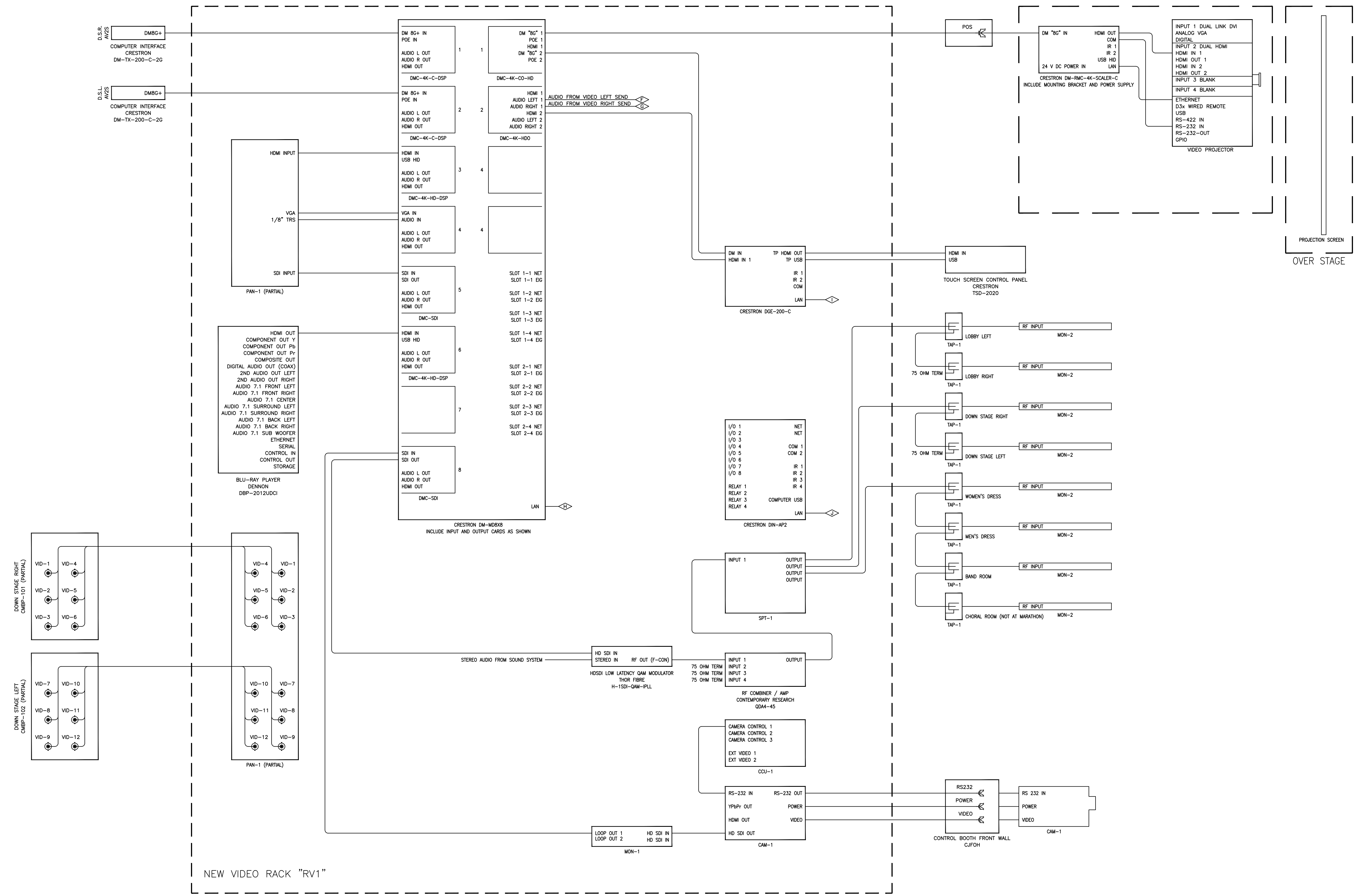
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 1115 West Hunter Avenue, Tampa, FL 33622 (813) 263-1919
 Florida Engineering License Number 6676

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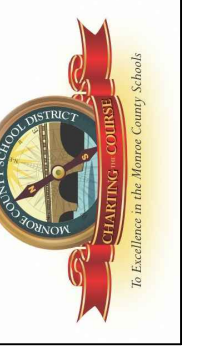
TS1.2

SOUND SYSTEM ONE-LINE 2
SCALE: NTS

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 1113 West Harbor Avenue, Tampa, FL 33612 | 813.366.1919
 Florida Engineering Business Number 0091

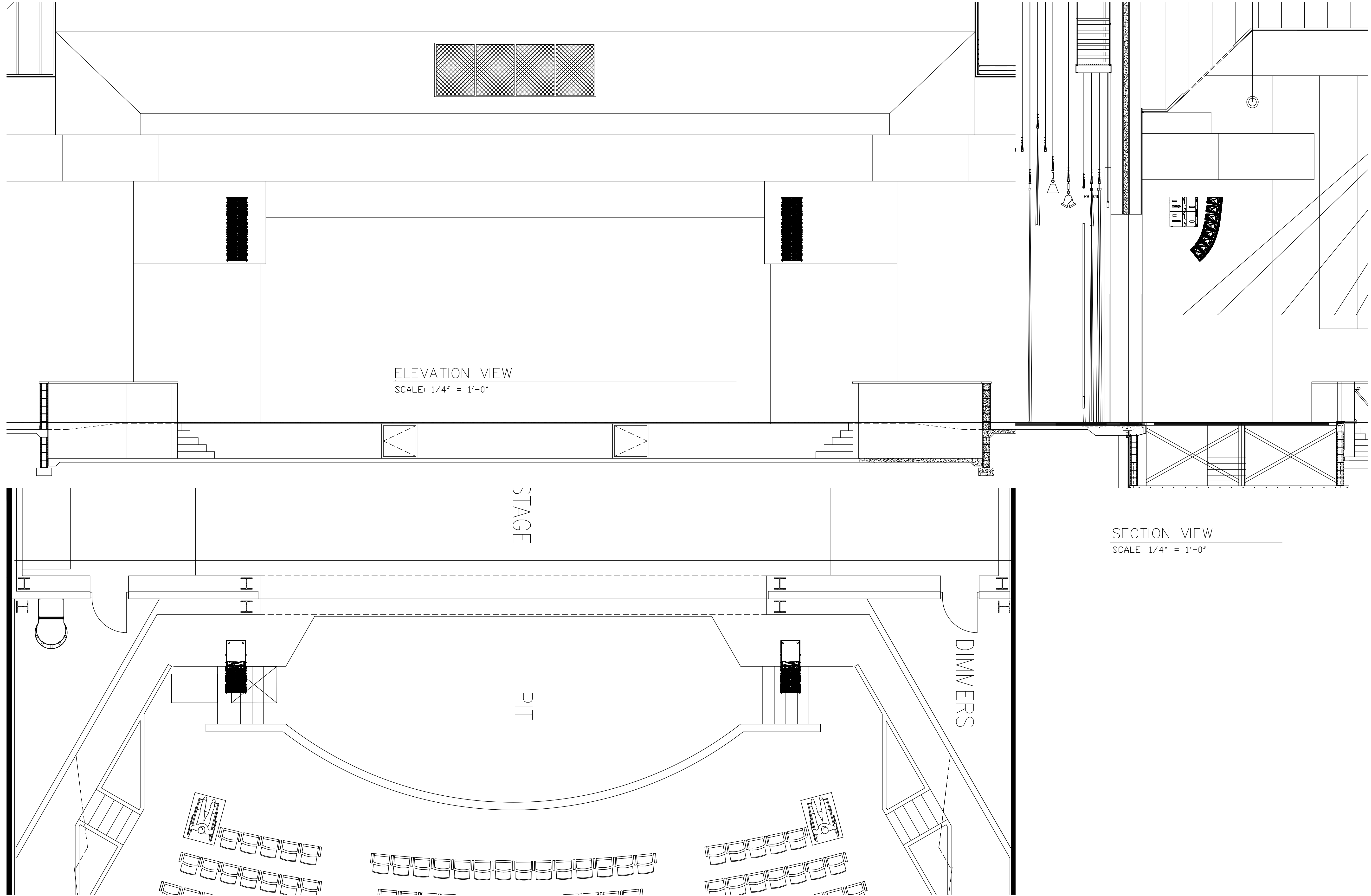
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DATE	02/17/17
SCALE	AS NOTED
AGI PROJECT	16020
SHEET	TS1.3

VIDEO SYSTEM ONE-LINE
SCALE: NTS

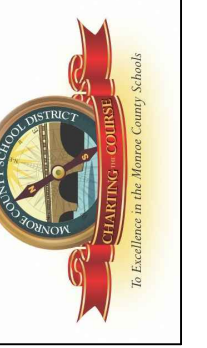
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VIDEO SYSTEM ONE-LINE



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241 Trumbo Rd.
Key West, Florida 33040

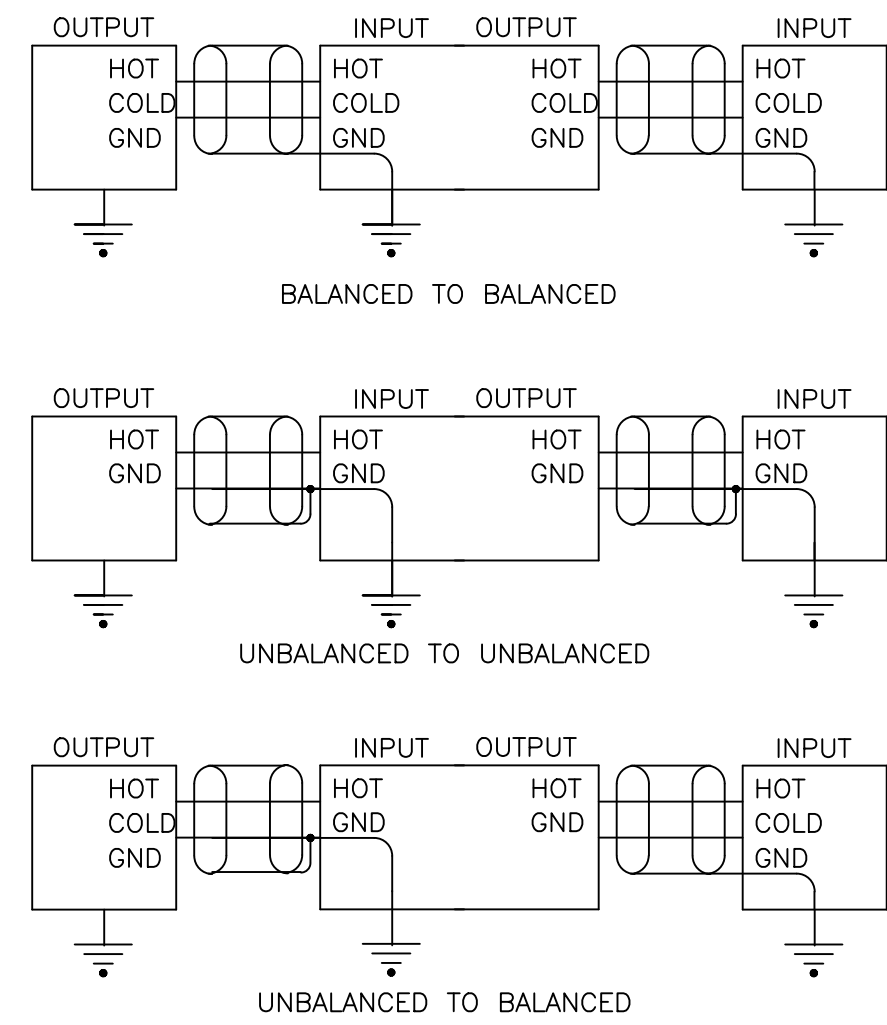
CONSTRUCTION DOCUMENTS
SPEAKER ARRAY DETAILS

Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Hunter Avenue, Tampa, FL 33622 (813) 986-1919
Florida Professional Engineering License No. 12076
Florida Professional Engineering License No. 6061

AGI

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

TS1.4



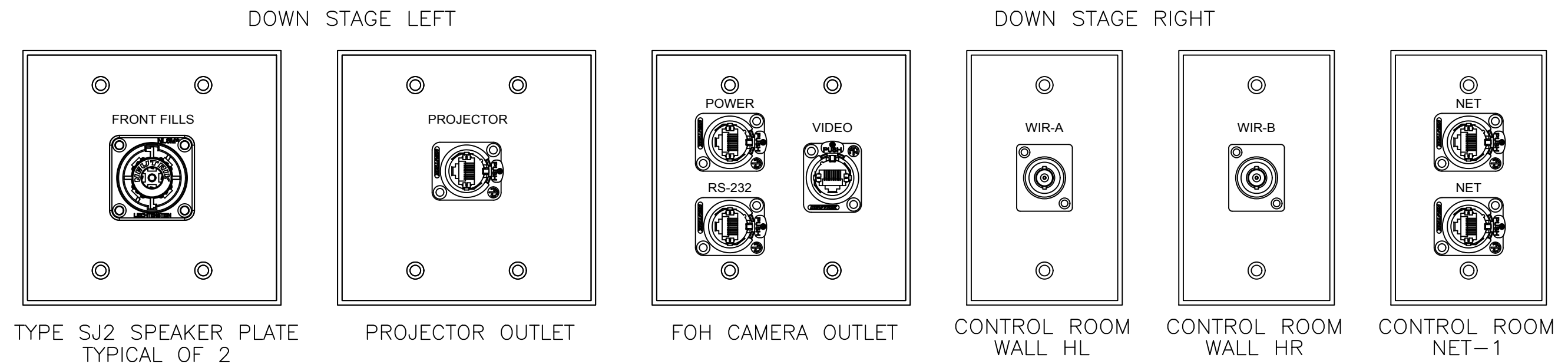
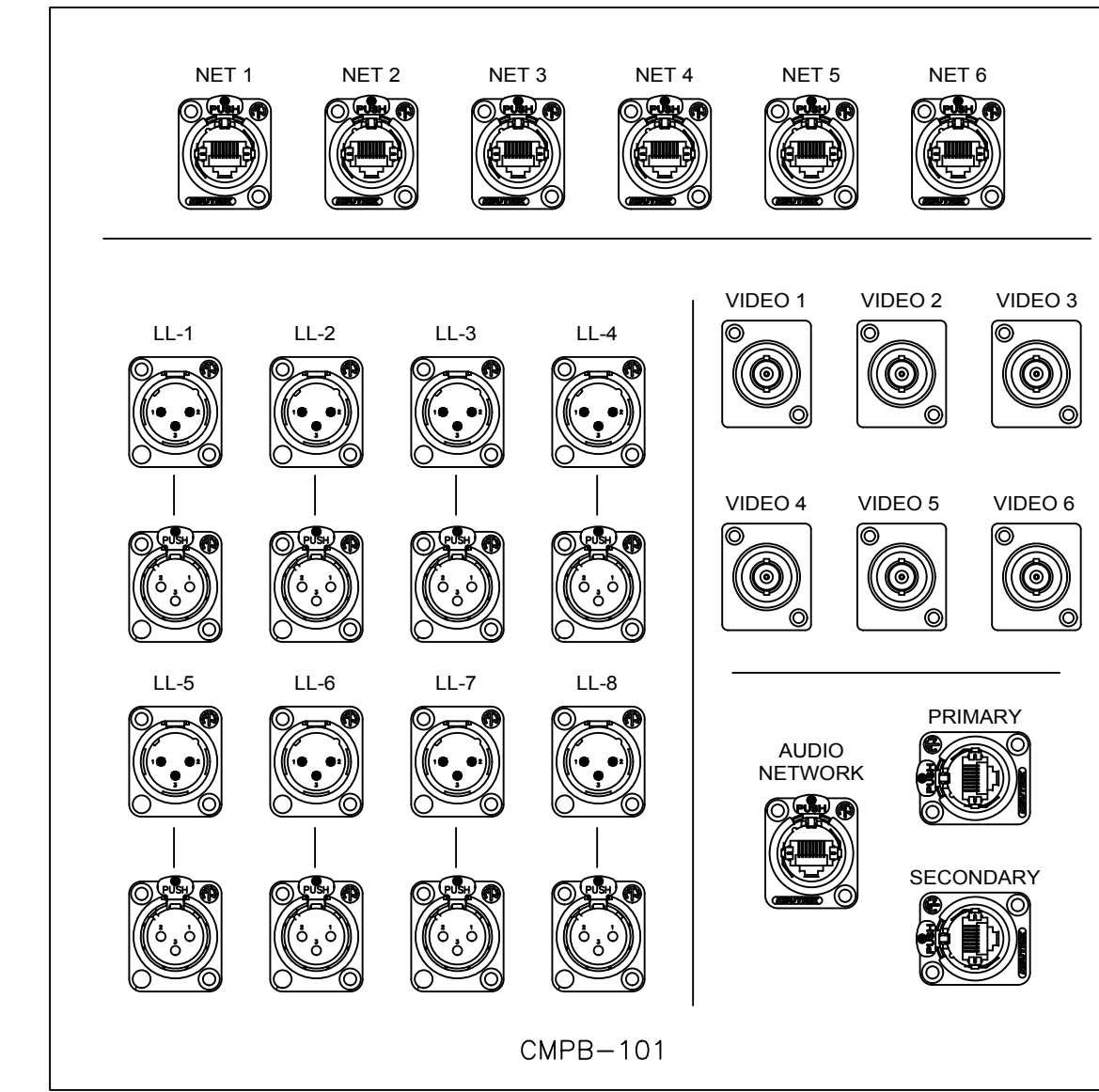
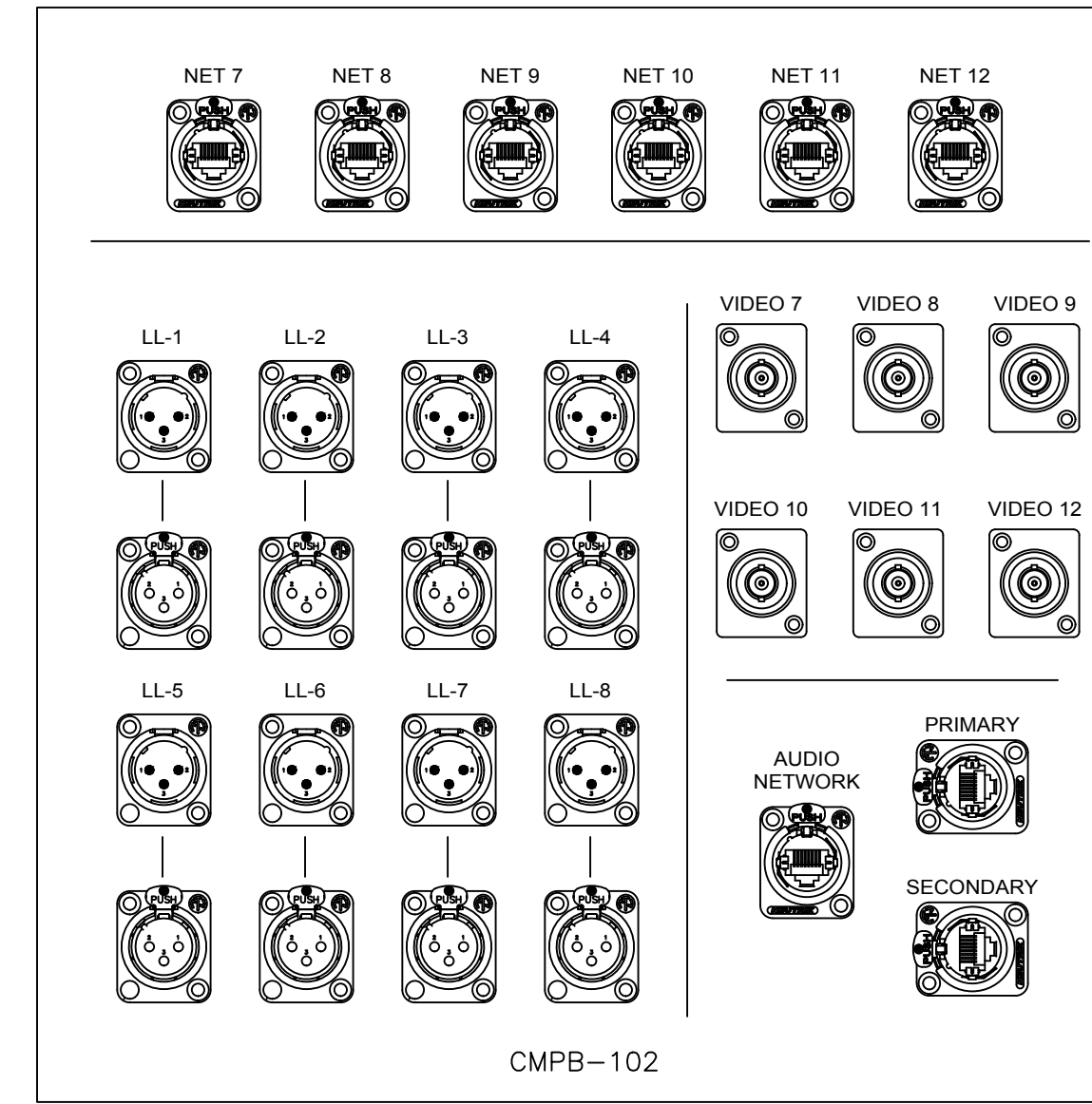
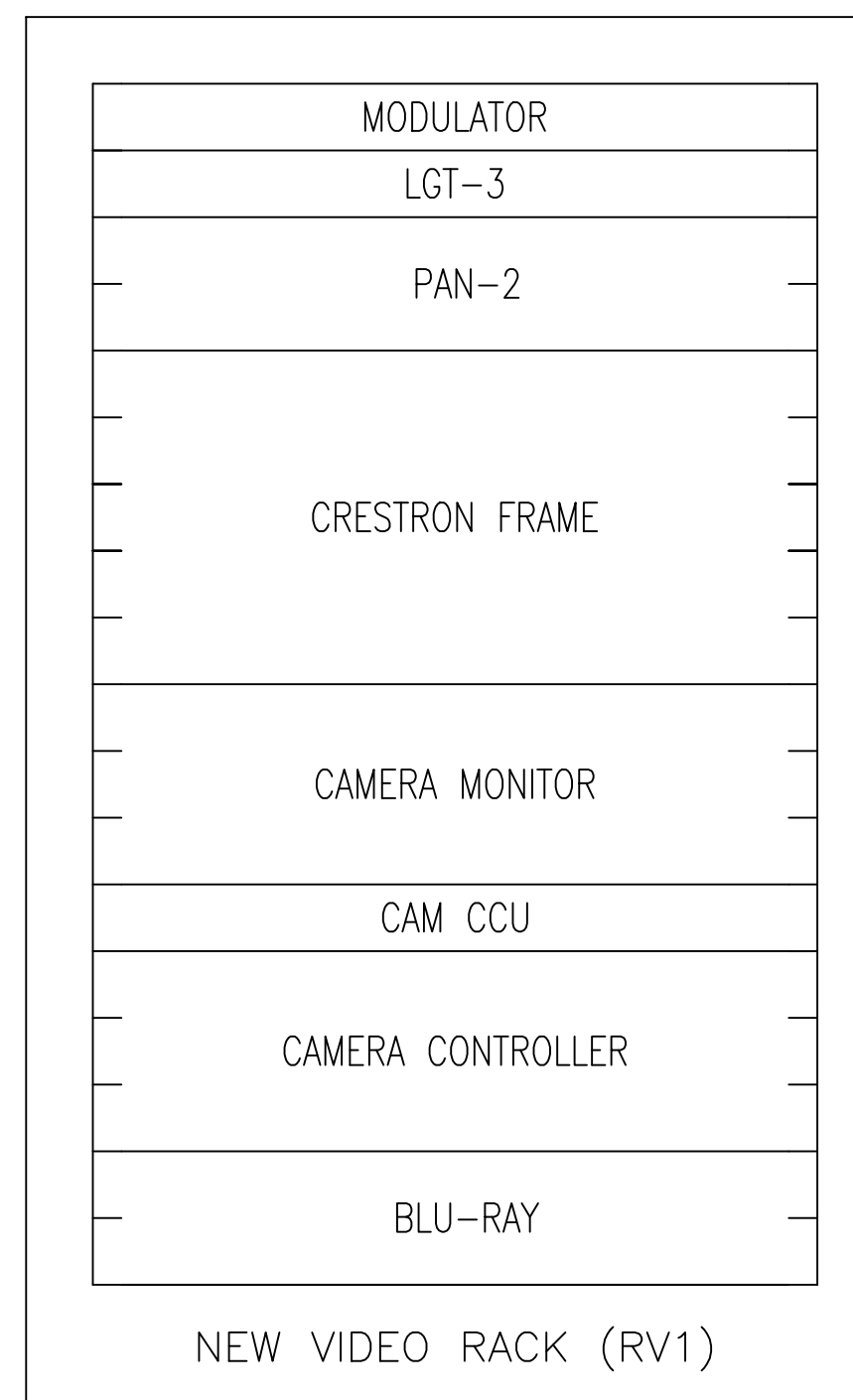
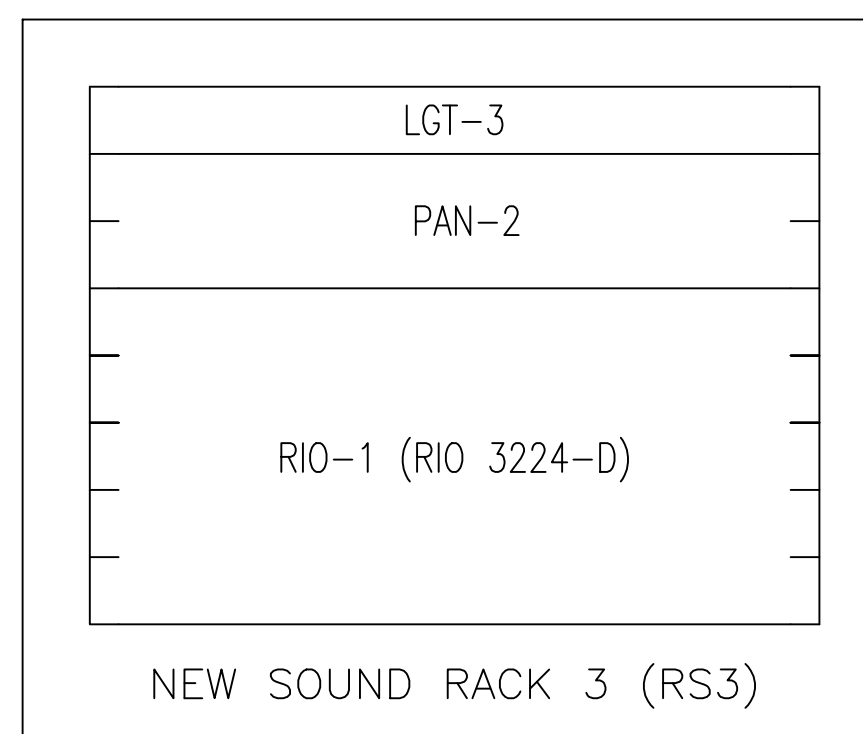
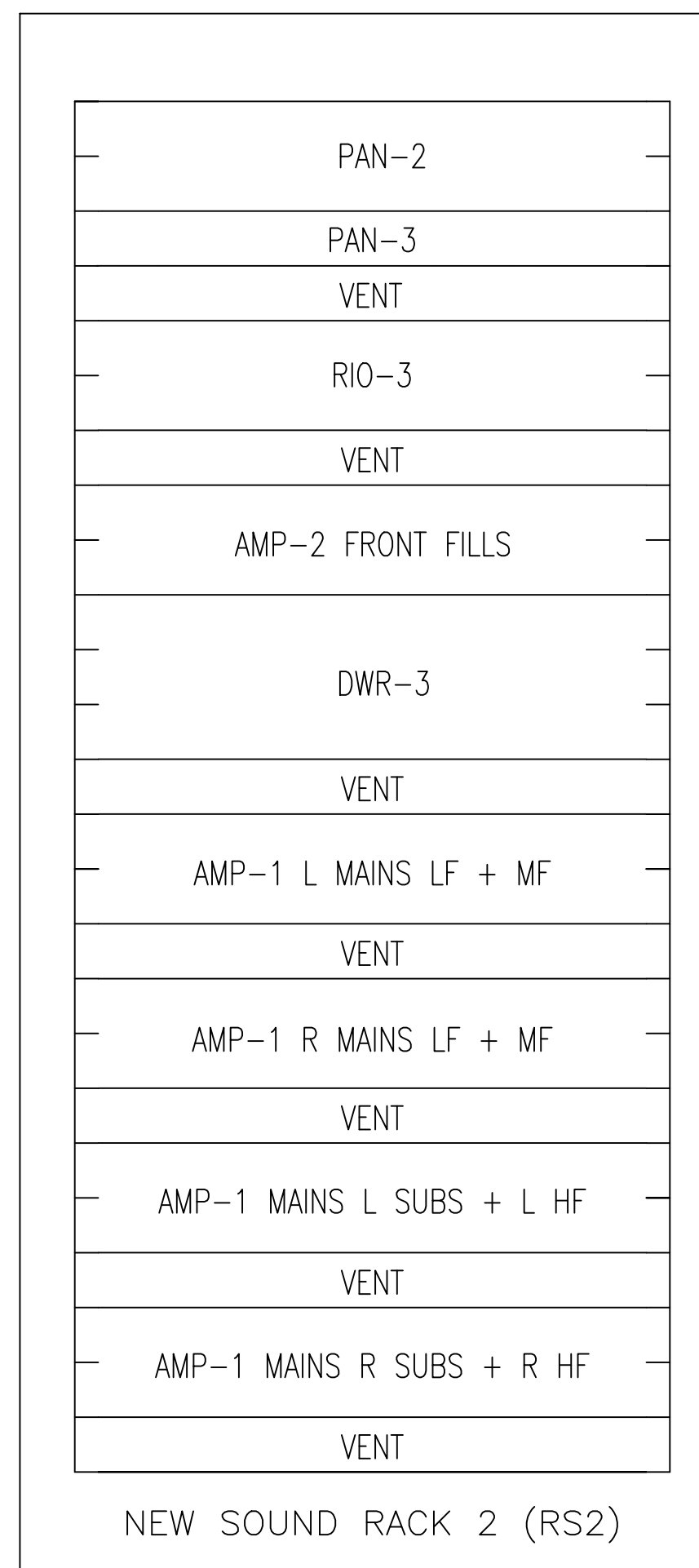
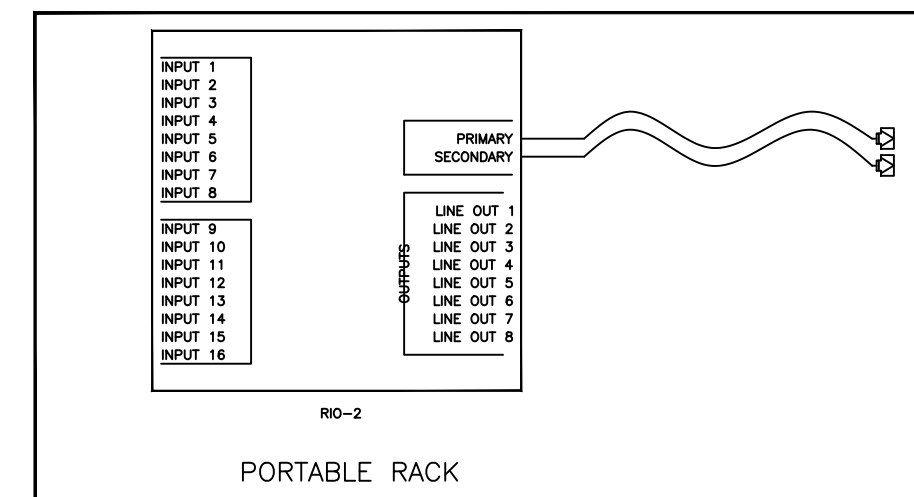
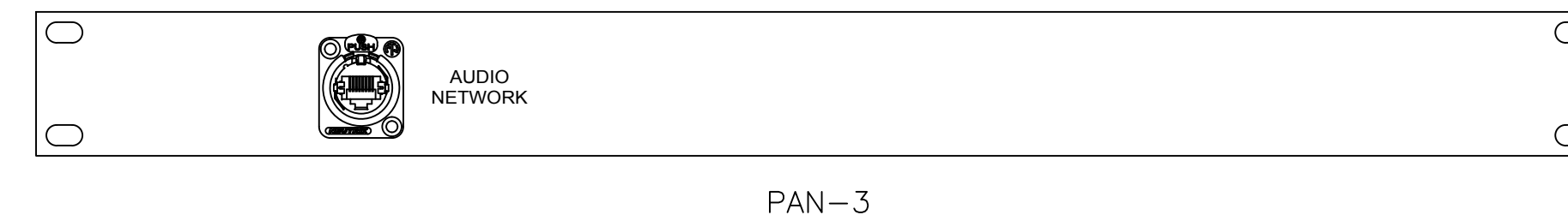
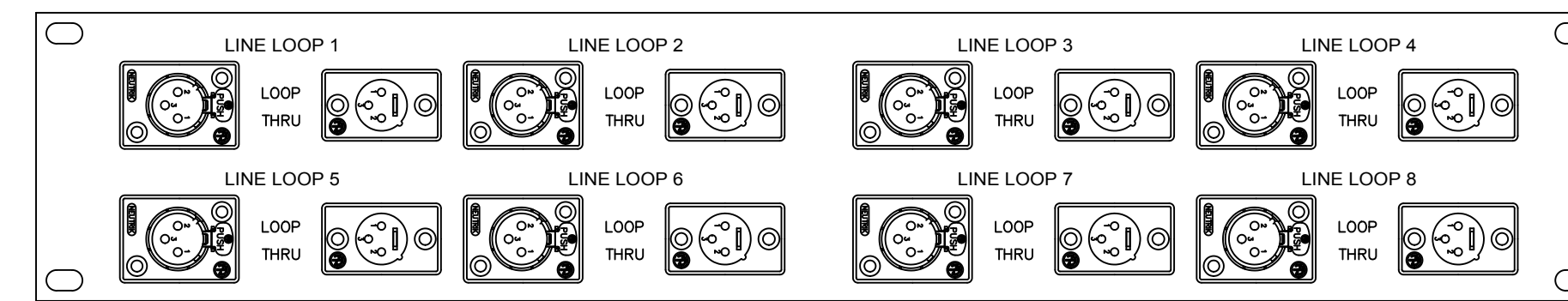
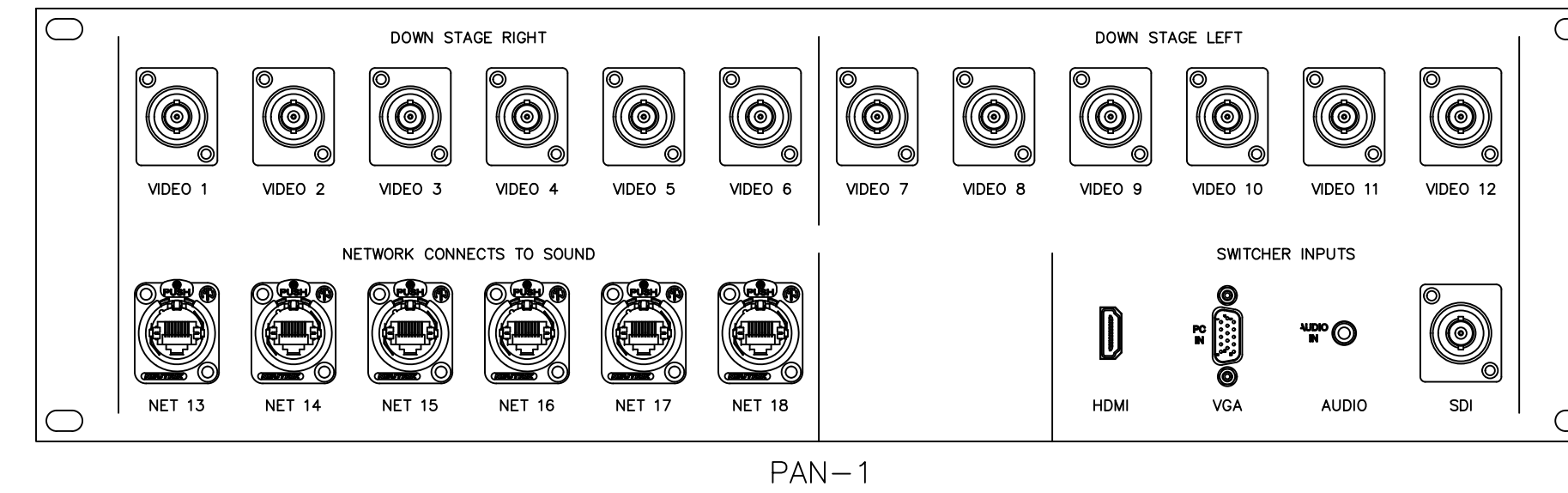
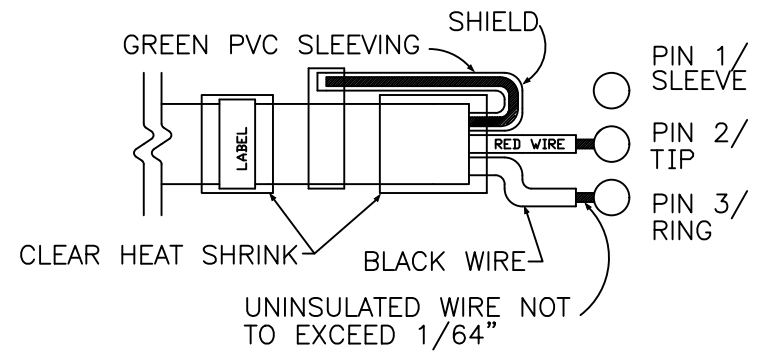
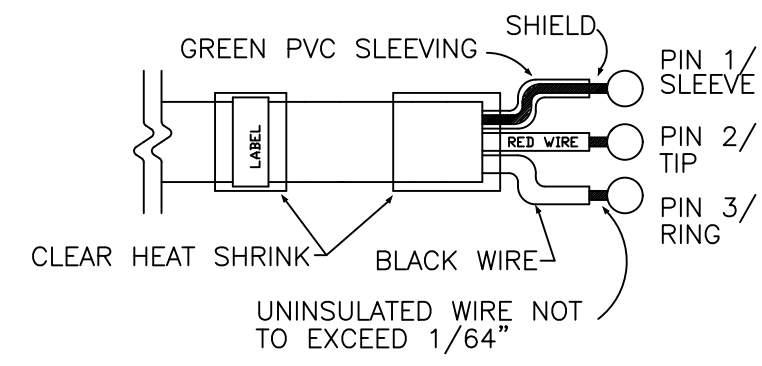
NOTES:
A TRS PATCHBAY JACK IS TO BE WIRED AS A BALANCED DEVICE.

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.



REVISIONS	BY

Coral Shores High School
Theatrical Lighting and Sound Improvements
89901 Old Highway
Tavernier, FL 33070
Monroe County School District
241 Trumbo Rd.
Key West, Florida 33040

CONSTRUCTION DOCUMENTS

PLATES, RACKS & DETAILS

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
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Phone: 813.834.9600
Fax: 813.834.9601
Email: agi@anston-greenlees.com

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

TS1.5

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