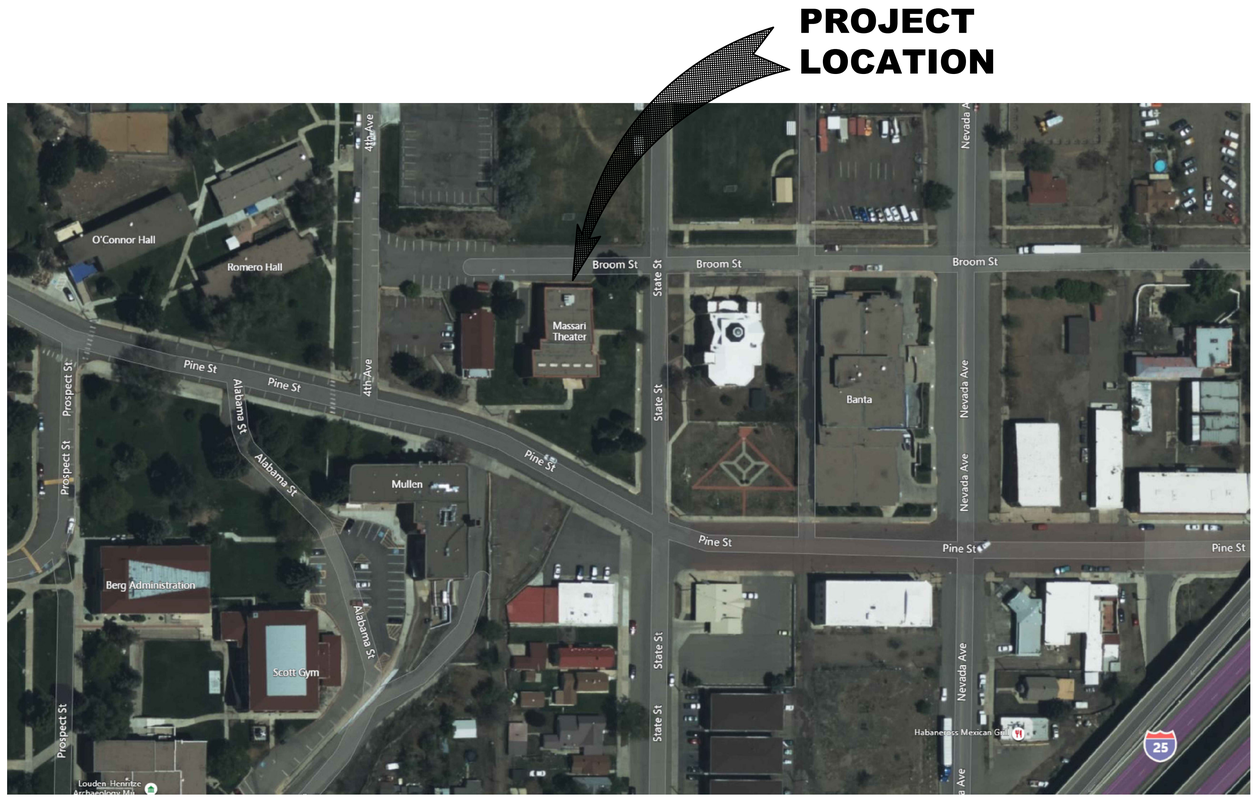
TRINIDAD STATE JUNIOR COLLEGE
MASSARI THEATER
TSJC-21-001



TRINIDAD STATE JUNIOR COLLEGE
TRINIDAD, CO

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SUMMARY OF ALTERNATES

NO	DESCRIPTION
1	INTERIOR LIGHTING IN CLASSROOMS, LOWER LEVEL, AND RESTROOMS
2	STAGE FLOOR
3	THEATRICAL LIGHTING SPARE EQUIPMENT
4	THEATRICAL A/V SPARE EQUIPMENT
5	WIRELESS MICROPHONE SYSTEM
6	MONITORING & PAGE SYSTEM
7	SCRIM CURTAIN
8	STOCK FABRICK

APPLICABLE CODES
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2018 INTERNATIONAL FIRE CODE (IFC)
- MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16)
- THEATRICAL ESTA
- 2020 NATIONAL ELECTRIC CODE (NEC)

ELECTRICAL ENGINEER
- SCHENDT ENGINEERING
- 5145 CENTENNIAL BLVD
- COLORADO SPRINGS, CO 80919

STRUCTURAL ENGINEER
- HCDA ENGINEERING
- SOUTH WEBER ST
- COLORADO SPRINGS, CO

CONSTRUCTION INFORMATION
- OCCUPANCY A-3 AND B
- TWO STORIES WITH BASEMENT
- CONSTRUCTION TYPE II-B
- FIRE ALARM SYSTEM WITH AUTOMATIC DETECTION
- PARTIAL FIRE SPRINKLER
- STRUCTURAL RISK CATEGORY III
- SEISMIC CATEGORY B

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TRINIDAD STATE JUNIOR COLLEGE
MASSARI THEATER

REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO: 20162
DATE: 6/23/2021

SHEET TITLE: COVER SHEET

SHEET: G-001

ONE - LINE SYMBOLS

- CIRCUIT BREAKER — XXXAT — TRIP RATING; XXXAF — FRAME RATING
- SAFETY DISCONNECT
- FUSED DISCONNECT
- STARTER
- COMBINATION/STARTER DISCONNECT
- FUSED SWITCH — (600V & BELOW) — XXXAF — FUSE RATING; XXXAS — SWITCH RATING
- FUSED SWITCH — (ABOVE 600V)
- TRANSFORMER: DELTA CONNECTION; WYE CONNECTION
- GROUND CONNECTION (SIZE AS INDICATED)
- MOTOR, # INDICATES HORSEPOWER
- MISCELLANEOUS LOAD
- PANELBOARD
- SPD — SURGE PROTECTIVE DEVICE
- UPS UNIT WITH BATTERY

POWER SYSTEMS

- SERVICE AND DISTRIBUTION EQUIPMENT; MDP —MAIN DISTRIBUTION PANEL; MCC — MOTOR CONTROL CENTER; ATS — AUTOMATIC TRANSFER SWITCH; UPS — UNINTERRUPTIBLE POWER SUPPLY; SDP — SUB DISTRIBUTION PANEL; ST — SHUNT TRIP
- STARTER
- SAFETY DISCONNECT
- FUSED DISCONNECT
- COMBINATION STARTER/DISCONNECT
- TRANSFORMER

PUBLIC ADDRESS/AUDIO

- MICROPHONE JACK
- VOLUME CONTROL
- SPEAKER
- CHIME
- BUZZER/BELL AS INDICATED
- OUTDOOR SPEAKER

BRANCH CIRCUIT PANELBOARDS

- PANELBOARD (NEW)
- PANELBOARD (EXISTING)

POWER SYMBOLS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- RECEPTACLE FUNCTIONS: (TYPICAL); G — GROUND FAULT CIRCUIT INTERRUPTER; L — LOCKING TYPE, WEATHER PROOF COVER; WP — WEATHERPROOF; # — NUMBER INDICATES CIRCUIT NUMBER (WHERE APPLICABLE); IG — ISOLATED GROUND; AC — ABOVE COUNTER
- COMBINATION DUPLEX RECEPTACLE AND DUAL 30W USB PORTS
- DOUBLE DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE (SIZE AND TYPE AS INDICATED BY NEMA NO.)
- RECEPTACLE PROTECTED BY GFCI DEVICE
- SWITCHED DUPLEX RECEPTACLE 1/2 SWITCHED, 1/2 NON SWITCHED
- FLOOR OR CEILING BOX DUPLEX RECEPTACLE (C — IMPLIES CEILING)
- FLOOR OR CEILING BOX DOUBLE DUPLEX RECEPTACLE (C — IMPLIES CEILING)
- FLOOR OR CEILING BOX SPECIAL RECEPTACLE SIZE AND TYPE AS INDICATED BY NEMA NO. (C — IMPLIES CEILING)
- COMBINATION POWER/COMMUNICATIONS FLOOR BOX (RECEPTACLES AS INDICATED)
- COMBINATION POWER/COMMUNICATIONS FLOOR BOX FOR SYSTEMS FURNITURE
- CLOCK RECEPTACLE
- 4" SQUARE JUNCTION BOX WITH BLANK COVER UNLESS OTHERWISE NOTED
- LARGE JUNCTION BOX. SIZE AS NOTED
- POWER POLE SYSTEMS FURNITURE

LIGHTING SYMBOLS

- RECESSED LUMINAIRE; LUMINAIRE IDENTIFIERS: UPPERCASE LETTER INDICATES LUMINAIRE TYPE; LOWERCASE LETTER INDICATES CONTROLLING SWITCHLEG
- EMERGENCY EGRESS FIXTURE, WIRE FOR STANDARD SWITCHING. PROVIDE STANDARD BALLASTS/DRIVERS PER FIXTURE SCHEDULE, PLUS ONE ADDITIONAL EMERGENCY BALLAST/DRIVER.
- LUMINAIRE: RECESSED
- LUMINAIRE: SURFACE OR PENDANT MOUNTED
- LUMINAIRE: WALL MOUNTED LIGHT
- LUMINAIRE: DOWN LIGHT | WALL WASHER DOWNLIGHT
- LUMINAIRE: TRACK LIGHTING ASSEMBLY
- LIGHTED EXIT SIGN: ARROWS INDICATE DIRECTION OF EXIT
- BATTERY OPERATED EMERGENCY LIGHT
- x INDICATES SWITCHLEG
- x INDICATES FUNCTION: NO MARK — SINGLE POLE; P — PILOT LIGHT OR LIGHTED HANDLE; 2 — DOUBLE POLE; 3 — THREE WAY; 4 — FOUR WAY; T — SPRING WOUND WALL BOX TIMER; K — KEYED DEVICE; TO — THERMAL OVERLOAD; M — MANUAL MOTOR STARTER
- DIMMER, SLIDE TYPE WITH ON/OFF PRESET
- SLIDE DIMMER WITH ON/OFF SWTICH, 0–10V DIMMING CONTROL
- PUSH BUTTON SWITCH
- OCCUPANCY SENSOR (DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED) PROVIDE (RELAY/POWER PACK) AS REQUIRED
- OCCUPANCY SENSOR (DUAL LEVEL SWITCHING, DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED) SWITCH BOX MOUNTING
- OCCUPANCY SENSOR (SINGLE LEVEL SWITCHING, DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED) SWITCH BOX MOUNTING
- OCCUPANCY SENSOR (ULTRASONIC) PROVIDE SWITCH PACK (RELAY) AS REQUIRED
- CORRIDOR OCCUPANCY SENSOR (DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED) PROVIDE SWITCH PACK (RELAY) AS REQUIRED
- PHOTO CELL 120V, 20A
- CONTACTOR
- LOW VOLTAGE CABLE (3#18)
- LOW VOLTAGE CABLE (CAT 5)
- RELAY/POWER PACK
- ROOM CONTROLLER–DIGITAL (# INDICATES THE NUMBER OF ZONES)
- LOW VOLTAGE SWITCHING STATION
- LOW VOLTAGE TOUCH SCREEN CONTROLLER
- LOW VOLTAGE POWER SUPPLY
- DIMMER, SLIDE TYPE WITH ON/OFF PRESET — LOW VOLTAGE

GENERAL DEMOLITION NOTES

(APPLY TO ALL ELECTRICAL DEMOLITION SHEETS)

1. THE OWNER OR IT'S REPRESENTATIVE MAY CHOOSE TO KEEP ANY OR ALL OF THE COMPONENTS WHICH ARE REMOVED AND NOT REUSED AS PART OF THIS PROJECT. MATERIALS WHICH ARE NOT RECLAIMED BY THE OWNER SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR, OFF OF THE OWNER'S PROPERTY.
2. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL ELECTRICAL WIRING, CONDUIT, BOXES, DEVICES, DISCONNECTS, FIXTURES, MOUNTING HARDWARE, ETC. WHICH ARE ASSOCIATED WITH THE EQUIPMENT INDICATED BY HATCHING UNLESS OTHERWISE NOTED.
3. THE EQUIPMENT SHOWN AS HATCHED ON THE DRAWINGS REPRESENT THE MAJORITY OF THE EQUIPMENT TO BE REMOVED. IT DOES NOT NECESSARILY SHOW ALL THE ASSOCIATED HARDWARE SUCH AS CONDUIT, BOXES, WIRING, ETC.
4. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL NECESSARY POWER OUTAGES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH SUCH WORK. THE CONTRACTOR SHALL INSURE THAT THE OPERATIONS IN ADJACENT AREAS OR PORTIONS OF THE FACILITY ARE NOT INTERRUPTED OR RESTRICTED WITHOUT PRIOR APPROVAL.

GENERAL NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

1. ALL CONDUITS AND OTHER CONVEYANCES SHALL BE CONCEALED. IN THE EVENT THAT A NEW DEVICE IS BEING INSTALLED IN AN EXISTING DRYWALL PARTITION AND/OR WALL, PROVIDE A CUT–IN TYPE BOX AND FISH FLEXIBLE CONDUIT DOWN INSIDE THE WALL FROM ABOVE THE CEILING SYSTEM. RIGIDLY SUPPORT THE FLEXIBLE CONDUIT ABOVE THE CEILING AND REPAIR THE DRYWALL AROUND THE CONDUIT. TRANSITION TO EMT ONCE ABOVE THE CEILING SYSTEM.
2. SIZES OF WIRE AND CABLES ARE BASED ON COPPER CONDUCTORS, UNLESS INDICATED OTHERWISE.
3. ALL PENETRATIONS IN OR THROUGH FIRE RATED PARTITIONS SHALL BE FIRE STOPPED SUCH THAT THE PENETRATION MEETS OR EXCEEDS THE FIRE RATING OF THE WALL.
4. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN THE APPROPRIATE DISCIPLINES AND CONTRACTORS.
5. COORDINATE ALL DEVICE, FIXTURE AND HARDWARE COLOR SELECTIONS WITH THE ARCHITECT PRIOR TO MAKING SHOP DRAWING SUBMITTALS.
6. BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON WALLS IN FINISHED AREAS WHICH CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE MOUNTED RACEWAY. EXPOSED CONDUIT IS NOT ACCEPTABLE IN FINISHED SPACES. PRIOR APPROVAL IS REQUIRED BEFORE MOUNTING CONVEYANCES IN AN EXPOSED FASHION.
7. ALL EXPOSED CONDUITS, BOXES, ETC. IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE. EXPOSED CONDUIT, BOXES, ETC. IN ROOMS WHICH ARE NOT PAINTED MAY BE LEFT UN–PAINTED. EXPOSED CONDUIT, BOXES, ENCLOSURES, ETC. ON THE EXTERIOR OF BUILDINGS SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACES.
8. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR THE REPLACEMENT OF ALL WALLS, CEILINGS OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION AND/OR INSTALLATION OF ELECTRICAL WORK.
9. PROVIDE ELECTRICAL CONNECTION TO ALL FIRE SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. VERIFY EXACT SIZE AND FINAL LOCATION OF ALL DAMPERS WITH THE MECHANICAL CONTRACTOR.
10. REFER TO THE ELECTRICAL CONNECTIONS SCHEDULE FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH PLUMBING AND HVAC EQUIPMENT.
11. COORDINATE AND/OR PROVIDE CONCRETE HOUSE KEEPING PADS FOR FLOOR MOUNTED ELECTRICAL EQUIPMENT. PADS SHALL BE 3.5" AFF WITH CHAMFERED EDGE. PADS SHALL EXTEND BEYOND THE EQUIPMENT EDGES BY 3" IN EVERY DIRECTION.

CIRCUITING SYMBOLS

- PROVIDE A MINIMUM WIRE SIZE OF #12 CONDUCTORS IN 3/4"C. PROVIDE 1 PHASE CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL AND GROUND CONDUCTORS MAY BE SHARED AMONGST MULTIPLE BRANCH CIRCUITS WITHIN A COMMON CONDUIT UNLESS THE CIRCUITS SUPPLY ELECTRONIC/COMPUTER LOADS. DEDICATED NEUTRALS AND GROUNDS SHALL BE PROVIDED FOR ELECTRONIC/COMPUTER LOADS AND FOR CIRCUITS WITH GFCI TYPE RECEPTACLES.
- RACEWAY CONCEALED ABOVE CEILING OR IN WALL, EXPOSED IN EQUIPMENT ROOMS OR UNFINISHED SPACES.
- RACEWAY UNDERGROUND OR UNDERFLOOR
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY CHANGE IN ELEVATION
- CAPPED CONDUIT
- CABLE TRAY (SIZE AS INDICATED)
- FLEXIBLE CONDUIT CONNECTION (LIQUIDTIGHT)
- SURFACE MOUNTED RACEWAY (WIREMOLD) (DEVICES AS INDICATED)
- PLUG AND CORD SEC.
- HOME RUN CONDUIT, SIZE AS INDICATED
- EMERGENCY BRANCH CIRCUIT (#10 WIRE MINIMUM)

GENERAL SYMBOLS

- (E) EXISTING
- (N) NEW
- (R) RELOCATED
- (F) FUTURE
- (TR) TO REMAIN
- (TYP.) TYPICAL
- DRAWING KEYNOTE (APPLIES TO ENTIRE SHEET WHEN SHOWN UNDER PLAN TITLE)
- DEMOLITION KEYNOTE (APPLIES TO ENTIRE SHEET WHEN SHOWN UNDER PLAN TITLE)
- REVISION CALL–OUT
- EQUIPMENT IDENTIFIER
- LIGHT LINE — EXISTING
- HEAVY LINE — NEW WORK
- HATCHING INDICATES DEMOLITION WORK EXISTING CONDITIONS TO BE REMOVED

ABBREVIATIONS

ABB	DESCRIPTION
A	AMPERE
AC	ALTERNATING CURRENT
ACB	AIR CIRCUIT BREAKER
AF	AMPERE FRAME, FUSE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
ARF	ABOVE RAISED FLOOR
AS	AMMETER SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BRKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CATV	CABLE TELEVISION
CCTV	CLOSED–CIRCUIT TELEVISION
CER	COMMUNICATIONS EQUIPMENT ROOM
CKT	CIRCUIT
CO/COR	CONTRACTING OFFICER/CONTRACTING OFFICERS REPRESENTATIVE
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRS	COATED RIGID STEEL
CT	CURRENT TRANSFORMER
DACT	DIGITAL ALARM COMMUNICATION TRANSMITTER
DIA	DIAMETER
DC	DIRECT CURRENT
DIV	DIVISION
Δ	DELTA CONNECTED
EC	ELECTRICAL CONTRACTOR
EES	EARTH ELECTRODE SYSTEM
ELCU	EMERGENCY LIGHTING CONTROL UNIT
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EOL	END OF LINE RESISTOR
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F.O.	FIBER OPTIC
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDR	FEEDER
FLR	FLOOR
FMCS	FACILITY MONITORING & CONTROL SYSTEM
FVNR	FULL VOLTAGE NONREVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GRC	GALVANIZED RIGID CONDUIT
HH	HANDHOLE
HID	HIGH–INTENSITY DISCHARGE
HOA	HAND–OFF–AUTO
IAW	IN ACCORDANCE WITH
ICCB	INSULATED CASE CIRCUIT BREAKER
IMC	INTERMEDIATE METALLIC CONDUIT
I/O	INPUT–OUTPUT
JB	JUNCTION BOX
K	KEY INTERLOCK
KA	KILOAMPERE
KVA	KILOVOLT–AMPERE
KVAR	KILOVOLT–AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LAN	LOCAL AREA NETWORK
LPS	LIGHTNING PROTECTION SYSTEM
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCER	MAIN COMMUNICATIONS EQUIPMENT ROOM
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MUX	MULTIPLEXER
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NP	NAMEPLATE
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED,OWNER INSTALLED
OHP	OVERHEAD PROJECTOR
OL	OVERLOAD RELAY

ABB	DESCRIPTION
P	PHASE, POLE, OR POWER
PA	PUBLIC ADDRESS
ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PB	PUSH BUTTON
PF	POWER FACTOR
PIN	PERSONAL IDENTIFICATION NUMBER
PIV	POST INDICATOR VALVE
PNL	PANEL
PTZ	PAN/TILT/ZOOM
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCPT	RECEPTACLE
REF	REFERENCE DIMENSION FROM ARCHITECTURAL DRAWINGS (ELEVATION OF FIRST FLOOR)
RM	ROOM
RQD	REQUIRED
RVNR	REDUCED VOLTAGE NONREVERSING
RVR	REDUCED VOLTAGE REVERSING
RX	RECEIVER
SACP	SECURITY ALARM CONTROL PANEL
SMR	SURFACE MOUNTED RACEWAY (WIREMOLD CONVEYANCE)
SPKR	SPEAKER
SS	STAINLESS STEEL
STR	STARTER SURF SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYMM	SYMMETRICAL
TB	TERMINAL BLOCK
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
T.O.	TELECOMMUNICATIONS OUTLET
TSP	TWISTED SHIELDED PAIR
TX	TRANSMITTER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLTMETER, VOLT
VA	VOLT–AMPERE
VAC	VOLTAGE, ALTERNATING CURRENT
VAR	VOLT–AMPERE REACTIVE
VCR	VIDEO CASSETTE RECORDER
VFD	VARIABLE FREQUENCY DRIVE (VFD SAME AS AFD)
VS	VOLTMETER SWITCH
VT	VOLTAGE TRANSFORMER
W	WATT
WHD	WATT–HOUR DEMAND METER
WP	WEATHERPROOF
XFMR	TRANSFORMER
Z	IMPEDANCE

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REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO.: 20162
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SHEET TITLE: ELECTRICAL LEGEND & GENERAL NOTES

SHEET: E-001

GENERAL NOTES

1 THE DRAWINGS REPRESENTS THE MAJORITY OF THE DEVICES AND EQUIPMENT TO BE REMOVED, BUT THEY MAY NOT INDICATE ALL DEVICES AND EQUIPMENT TO BE REMOVED DUE TO PARTITIONS, BOOK SHELVES, FILING CABINETS AND FURNITURE THAT WERE IN PLACE DURING THE INITIAL FIELD INVESTIGATION.

2 REPAIR THE WALL AND CEILING DAMAGE CAUSED BY THE DEMOLITION EFFORT TO MATCH SURROUNDING FINISH

3 DURING DEMOLITION, MAINTAIN CONTINUITY TO OTHER FIXTURESTHAT ARE SHOWN TO REMAIN OR OTHERWISE NOT SHOWN

4 CONDUIT MAY BE REUSED IF APPLICABLE TO NEW WORK AND IS IN LIKE-NEW CONDITION

(#) KEYNOTES

1 LIGHT FIXTURE IS REMOVED AND NOT REPLACED. COMPLETELY REMOVE CONDUCTORS AND ALL ACCESSIBLE CONDUIT. BOXES IN CONCRETE MAY BE ABANDONED IN PLACE WITH NEW BLANK COVER PAINTED TO MATCH SURROUNDING

2 LIGHT FIXTURE WILL BE REMOVED AND REPLACED WITH NEW. CONNECTION TO FIXTURE WILL NOT CHANGE. SOURCE END WILL BE REDIRECTED IN NEW WORK

3 WIREWAY, RECEPTACLES, AND CONDUIT/WIRE WILL REMAIN IN PLACE. DISCONNECT FROM DIMMING CABINET. REDIRECT CONDUIT AND WIRE IN NEW WORK TO NEW JUNCTION BOX

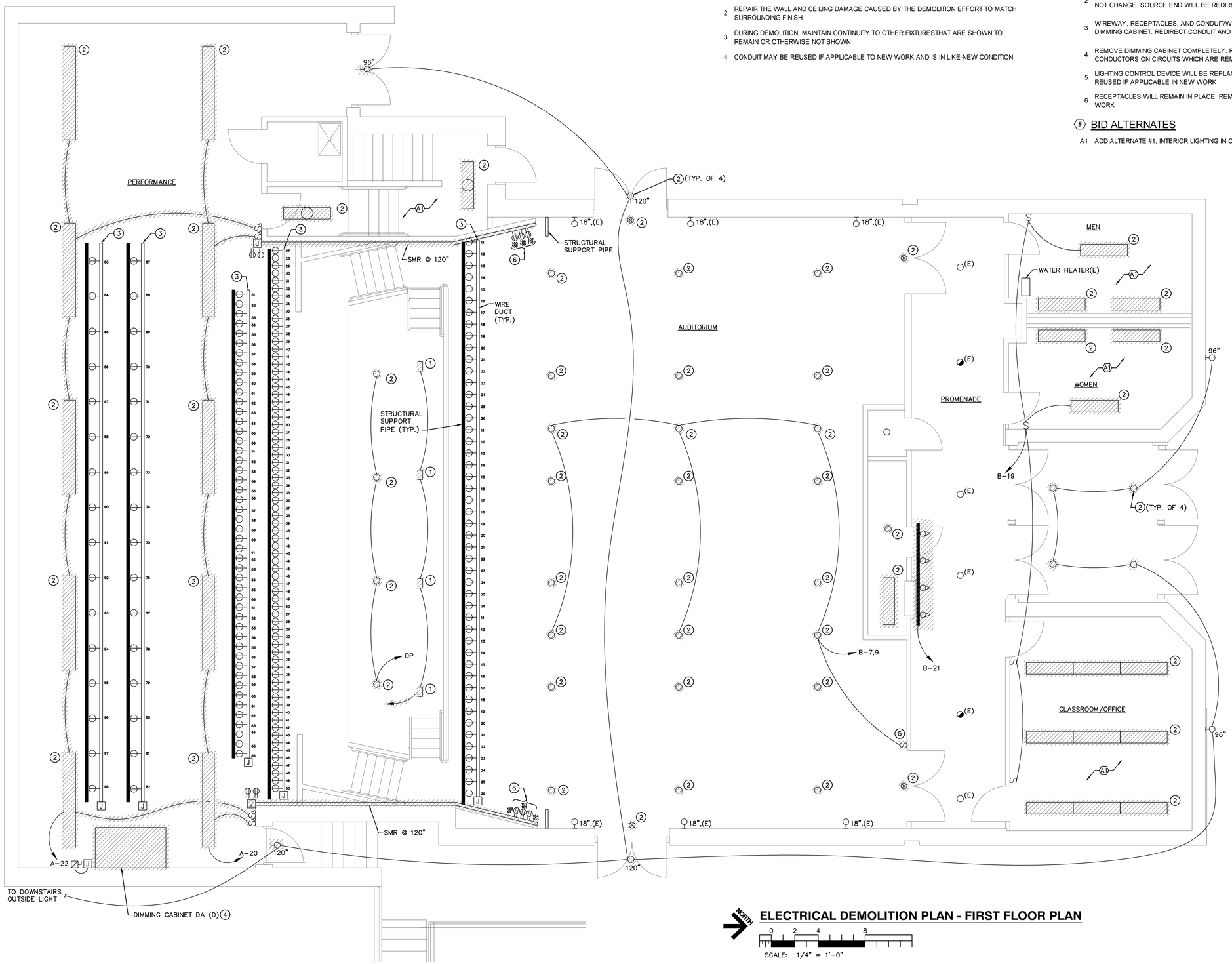
4 REMOVE DIMMING CABINET COMPLETELY. REMOVE FEEDER TO MDP. REMOVE ALL BRANCH CONDUCTORS ON CIRCUITS WHICH ARE REMOVED

5 LIGHTING CONTROL DEVICE WILL BE REPLACED. REMOVE COMPLETELY. CONDUIT MAY BE REUSED IF APPLICABLE IN NEW WORK

6 RECEPTACLES WILL REMAIN IN PLACE. REMOVE SMR AND ROMEX TO REPLACED IN NEW WORK

(#) BID ALTERNATES

A1 ADD ALTERNATE #1, INTERIOR LIGHTING IN OTHER BUILDING SPACES



ELECTRICAL DEMOLITION PLAN - FIRST FLOOR PLAN

NORTH

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

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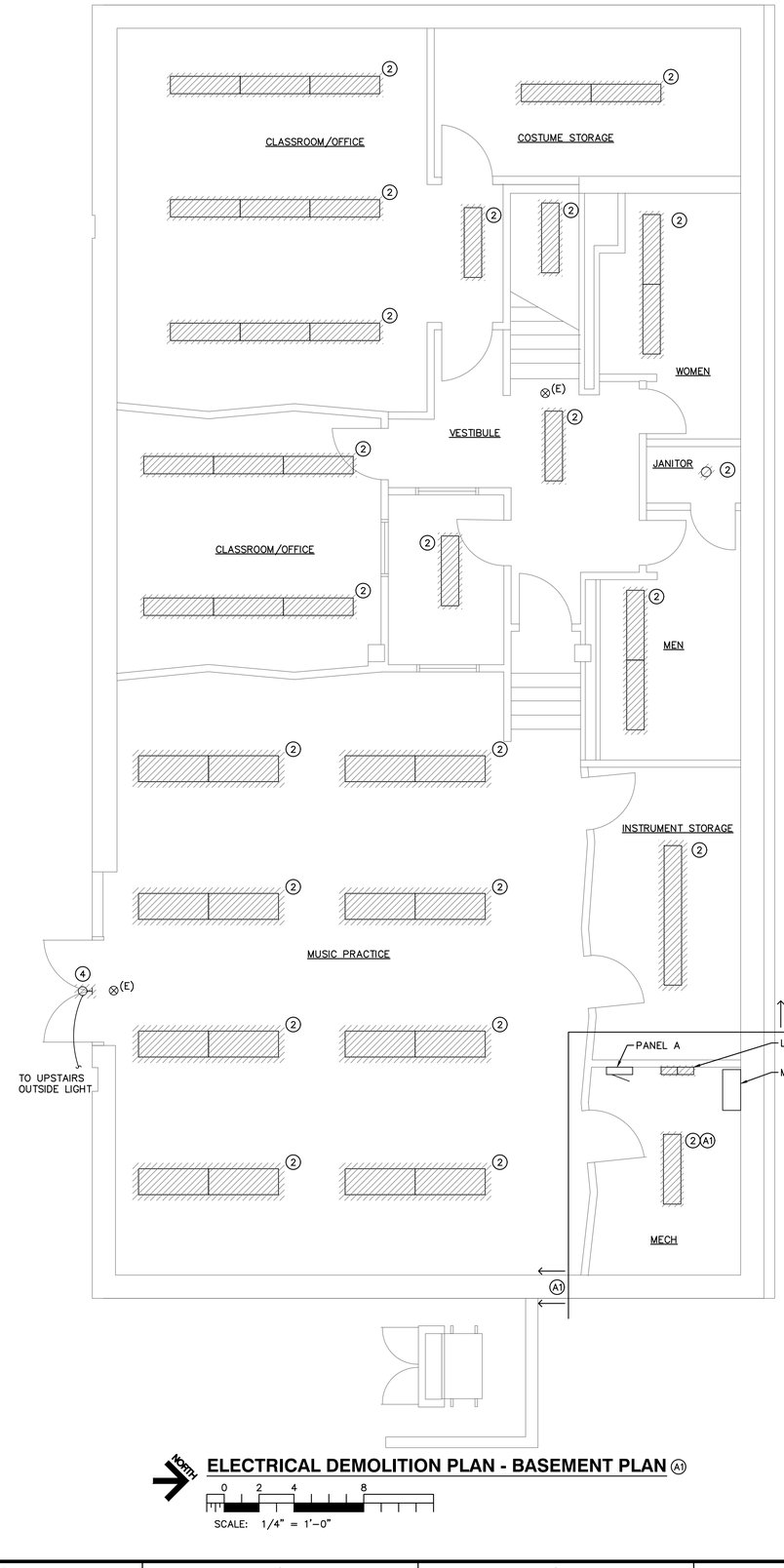
SHEET TITLE: ELECTRICAL DEMOLITION PLAN

SHEET: ED101

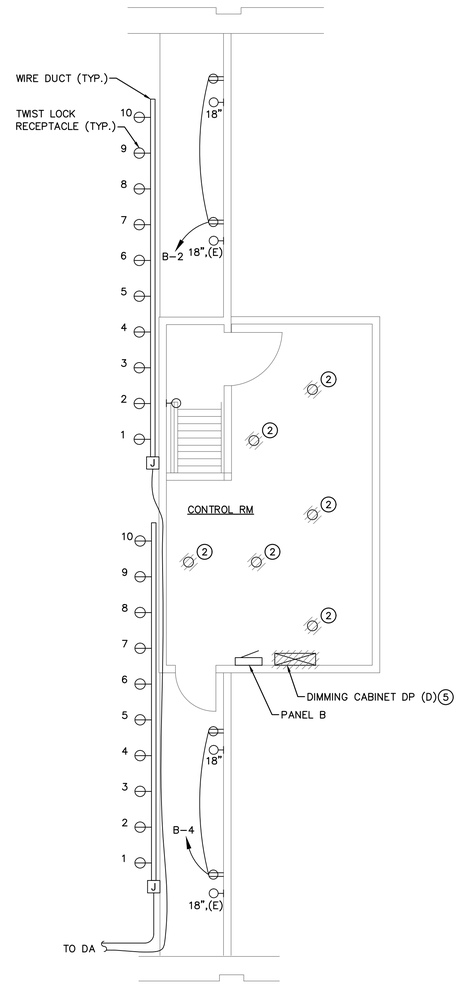


ELECTRICAL DEMOLITION PLAN - BASEMENT PLAN A1

NORTH

0 2 4 8

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



ELECTRICAL DEMOLITION PLAN - SECOND FLOOR PLAN

NORTH

0 2 4 8

SCALE: 1/4" = 1'-0"
ALL BASE BID

GENERAL NOTES

1. THE DRAWINGS REPRESENTS THE MAJORITY OF THE DEVICES AND EQUIPMENT TO BE REMOVED, BUT THEY MAY NOT INDICATE ALL DEVICES AND EQUIPMENT TO BE REMOVED DUE TO PARTITIONS, BOOK SHELVES, FILING CABINETS AND FURNITURE THAT WERE IN PLACE DURING THE INITIAL FIELD INVESTIGATION.
2. REPAIR THE WALL DAMAGE CAUSED BY THE DEMOLITION EFFORT TO MATCH SURROUNDING FINISH
3. DURING DEMOLITION, MAINTAIN CONTINUITY TO OTHER FIXTURESTHAT ARE SHOWN TO REMAIN OR OTHERWISE NOT SHOWN

(#) KEYNOTES

1. BASE BID - LIGHTING INVERTER WILL BE REMOVED AND REPLACED. REMOVE FEEDER ENTIRELY. BRANCH CIRCUITS FED FROM INVERTER WILL BE REWORKED
2. LIGHT FIXTURE WILL BE REMOVED AND REPLACED WITH NEW. REMOVE CONDUCTORS ENTIRELY, HARD CONDUIT WILL BE REUSED. SEE NEW WORK
3. BASE BID - THEATRICAL LIGHTING DIMMER RACK IS FED FROM HERE. REMOVE FEEDER TO DIMMER RACK ENTIRELY
4. BASE BID - REMOVE FIXTURE TO BE REPLACED. REMOVE CONDUCTORS, KEEP ROUGH-IN IN PLACE TO BE REUSED
5. BASE BID - REMOVE EXISTING DIMMING CABINET, PULL BACK CONDUCTORS TO BE REUSED IN NEW WORK

(#) BID ALTERNATES

A1 ADD ALTERNATE #1

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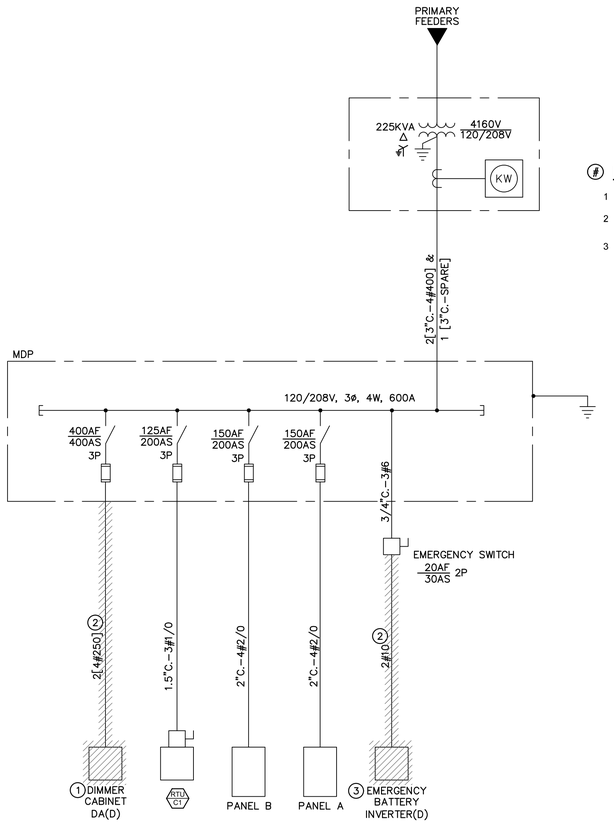
SHEET TITLE: ELECTRICAL DEMOLITION PLANS

SHEET: ED102



DEMOLITION ONE LINE DIAGRAM

NO SCALE

KEYNOTES

1 REMOVE EXISTING DIMMER CABINET AND DISPOSE

2 REMOVE FEEDER ENTIRELY

3 LIGHTING INVERTER WILL BE REMOVED AND REPLACED. BRANCH CIRCUITS FED FROM INVERTER WILL BE REWORKED

PANEL:	A (DEMO)					TYPE:	LIGHTING								PROJECT NAME:	TSJC MASSARI THEATER									
FED FROM:	MDP					MOUNTING:	SURFACE								PROJECT NO.:	20162									
VOLTAGE:	120/ 208					NEUTRAL BUS:	Y			NOTES:	THIS IS AN EXISTING PANEL														
PHASE:	3 PHASE, 4 WIRE					GROUND BUS:	Y				[D] LOAD IS REMOVED WITH THIS PROJECT														
MAIN OC DEVICE:	MLO AMPS					ISO GND:	N																		
MAIN LUGS:	225 AMPS																								
A.I.C. RATING:	10000 AMPS																								
DESCRIPTION	LTG (VA)		RECEP	MOTOR	OTHER	TOTAL	BRKR		CIRCUIT	BRKR		TOTAL	OTHER	MOTOR	RECEP	LTG (VA)		DESCRIPTION							
	FL/HD	LED	(VA)	(VA)	(VA)	(VA)	AMP	P	PHASE	P	AMP	(VA)	(VA)	(VA)	(VA)	LED	FL/HD								
E SILVER POLE LIGHT	1000					1000	20	-	01 A 02	1	20	1600					1600	LIGHTS, RM 200							
E SILVER POLE LIGHT	1000					1000	-	2	03 B 04	1	20	1600					1600	LIGHTS RM 200							
UNKNOWN						0	20	1	05 C 06	1	20	1500					1500	LIGHTS RM 201,202,208							
RECEP OUTSIDE CEMENT WALL			1080			1080	20	1	07 A 08	1	20	800					800	LIGHTS RM 205,206,207							
RECEP WATERCOOLER, 202,204			1260			1260	20	1	09 B 10	-	20	1000	1000					HEATER STAIRWELL							
RECEP GFI BATHROOM & STORAGE			1080			1080	20	1	11 C 12	2	-	1000	1000					HEATER STAIRWELL							
RECEP RM 201,202			900			900	20	1	13 A 14	-	60	4500	4500					WATER HEATER COSTUME STORAGE 2							
PLUG MOLD AUDIO 208			1000			1000	20	1	15 B 16	2	-	4500	4500					WATER HEATER COSTUME STORAGE 2							
PLUG MOLD AUDIO 208			1000			1000	20	1	17 C 18	1	15	280		280				EXHAUST FAN 204							
RECEP ORCHESTRA PIT			900			900	20	1	19 A 20	**1**	**20**	**1250**					**1250**	**[D] STAGE LIGHTS**							
RECEP ORCHESTRA PIT & WEST AUDITORIUM			1080			1080	20	1	21 B 22	**1**	**20**	**1250**					**1250**	**[D] STAGE LIGHTS**							
RECEP STAGE			1500			1500	20	1	23 C 24	1	20	1500			1500			RECEP STAGE							
RECEP TELEPHONE			1080			1080	20	1	25 A 26	1	20	900			900			RECEP STAGE							
TIMECLOCK	1100					1100	20	1	27 B 28	1	20	1000			1000			RECEP STAGE							
TIMECLOCK	725					725	20	1	29 C 30	1	20	500	500					FIRE ALARM PANEL							
FURNACE						0	20	1	31 A 32	1	30	0						SPARE							
[D] STAGE WORK LIGHTS	**1000**					**1000**	**20**	**1**	33 B 34	-	100	6000			6000			CAMLOCK ON STAGE							
[D] STAGE WORK LIGHTS	**1000**					**1000**	**20**	**1**	35 C 36	-	-	6000			6000			CAMLOCK ON STAGE							
SPACE						0			37 A 38	3	-	6000			6000			CAMLOCK ON STAGE							
SPACE						0			39 B 40	-	20	1000					1000	**[D] STAGE WORK LIGHTS**							
SPACE						0			41 C 42	2	-	1000					1000	**[D] STAGE WORK LIGHTS**							

PANEL LOAD SUMMARY

CONNECTED LOAD AND PHASE SUMMARY

LOAD TYPE	PH A	PH B	PH C		TOTAL	
LIGHTING LED	0.0	0.0	0.0	KVA	0.0	KVA
LIGHTING FL/HID	4.7	7.0	4.2	KVA	15.8	KVA
RECEPTACLES	10.9	10.3	11.1	KVA	32.3	KVA
MOTORS	0.0	0.0	0.3	KVA	0.3	KVA
OTHER	4.5	5.5	1.5	KVA	11.5	KVA
TOTAL	20.0	22.8	17.1	KVA	59.9	KVA
PHASE BALANCE	A-B	B-C	C-A	PNL PF =		0.95
	88%	75%	85%			
MIN PANEL AMPACITY =	154 AMPS					

DEMAND LOAD SUMMARY

LOAD TYPE	POWER FACTOR	CONNECTED LOAD (KW)		DEMAN NEC CALCULATED FACTOF LOAD	(KVA)	
LIGHTING LED	100%	0.0	KW	125%	0.0	KVA
LIGHTING FL/HID	95%	15.0	KW	125%	19.8	KVA
RECEPTACLES						
FIRST 10KVA	95%	9.5	KW	100%	10.0	KVA
REMAINDER	95%	21.2	KW	50%	11.1	KVA
MOTORS						
LARGEST	80%	0.2	KW	125%	0.4	KVA
REMAINDER	80%	0.0	KW	100%	0.0	KVA
OTHER	95%	10.9	KW	125%	14.4	KVA
TOTAL		56.8	KW		55.6	KVA

PANEL:	B (DEMO)					TYPE:	LIGHTING								PROJECT NAME:	TSJC MASSARI THEATER									
FED FROM:	MDP					MOUNTING:	SURFACE								PROJECT NO.:	20162									
VOLTAGE:	120/ 208					NEUTRAL BUS:	Y			NOTES:	THIS IS AN EXISTING PANEL														
PHASE:	3 PHASE, 4 WIRE					GROUND BUS:	Y				[D] LOAD REMOVED WITH THIS PROJECT														
MAIN OC DEVICE:	150 AMPS					ISO GND:	N																		
MAIN LUGS:	150 AMPS																								
A.I.C. RATING:	10000 AMPS																								
DESCRIPTION	LTG (VA)		RECEP	MOTOR	OTHER	TOTAL	BRKR		CIRCUIT	BRKR		TOTAL	OTHER	MOTOR	RECEP	LTG (VA)		DESCRIPTION							
	FL/HD	LED	(VA)	(VA)	(VA)	(VA)	AMP	P	PHASE	P	AMP	(VA)	(VA)	(VA)	(VA)	LED	FL/HD								
[D] DIMMER RM 300	**1000**					**1000**	**20**	**1**	01 A 02	1	20	1000					1000	LIGHTS AISLE CATWALK WEST							
[D] DIMMER RM 300	**3000**					**3000**	**30**	**1**	03 B 04	1	20	1000					1000	LIGHTS AISLE CATWALK EAST							
[D] DIMMER RM 300	**1500**					**1500**	**20**	**1**	05 C 06	1	20	875					875	LIGHTS RM 300 & STAIRWELL							
[D] BIG FIXTURES AUDITORIUM	**1350**					**1350**	**20**	-	07 A 08	-	20	1000	1000					HEAT MENS RM							
[D] BIG FIXTURES AUDITORIUM	**1350**					**1350**	-	**2**	09 B 10	2	-	1000	1000					HEAT MENS RM							
HEATER RM 102					1000	1000	20	-	11 C 12	-	20	1000	1000					HEAT WOMENS RM							
HEATER RM 102					1000	1000	-	2	13 A 14	2	-	1000	1000					HEAT WOMENS RM							
HEATER TICKET BOOTH					1000	1000	20	-	15 B 16	-	60	0						SPARE							
HEATER TICKET BOOTH					1000	1000	-	2	17 C 18	2	-	0						SPARE							
LIGHTS RM 102,104,105,RESTROOMS	1500					1500	20	1	19 A 20	1	20	1000			1000			RECEP LIGHTS JANITOR							
LIGHTS RM 103,TICKET BOOTH	1200					1200	20	1	21 B 22	1	20	720			720			RECEP RM 102, 103							
RECEP S WALL RM 300			360			360	20	1	23 C 24	1	20	180			180			RECEP EAST WALL AUDITORIUM							
RECEP SOUTH WALL RM 300			360			360	20	1	25 A 26	1	20	540			540			RECEP N WALL RM 300 & ROOF							
RECEP SOUTH WALL RM 300			180			180	20	1	27 B 28	1	20	0						DOOR OPERATORS							
SPACE						0	-	-	29 C 30	-	40	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 1)							
SPACE						0	-	-	31 A 32	2	-	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 1)							
SPARE						0	20	1	33 B 34	-	40	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 2)							
SPARE						0	20	1	35 C 36	2	-	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 2)							
SPACE						0	-	-	37 A 38	-	-	0						SPACE							
SPACE						0	-	-	39 B 40	-	-	0						SPACE							
SPACE						0	-	-	41 C 42	-	-	0						SPACE							

PANEL LOAD SUMMARY

CONNECTED LOAD AND PHASE SUMMARY

LOAD TYPE	PH A	PH B	PH C		TOTAL	
LIGHTING LED	0.0	0.0	0.0	KVA	0.0	KVA
LIGHTING FL/HID	4.9	6.6	2.4	KVA	13.8	KVA
RECEPTACLES	18.9	17.9	34.5	KVA	71.3	KVA
MOTORS	0.0	0.0	0.0	KVA	0.0	KVA
OTHER	3.0	2.0	3.0	KVA	8.0	KVA
TOTAL	26.8	26.5	39.9	KVA	93.1	KVA
PHASE BALANCE	A-B	B-C	C-A	PNL PF =		0.95
	99%	66%	67%			
MIN PANEL AMPACITY =	188 AMPS					

DEMAND LOAD SUMMARY

LOAD TYPE	POWER FACTOR	CONNECTED LOAD (KW)		DEMAN NEC CALCULATED FACTOF LOAD	(KVA)	
LIGHTING LED	100%	0.0	KW	125%	0.0	KVA
LIGHTING FL/HID	95%	13.1	KW	125%	17.2	KVA
RECEPTACLES						
FIRST 10KVA	95%	9.5	KW	100%	10.0	KVA
REMAINDER	95%	58.3	KW	50%	30.7	KVA
MOTORS						
LARGEST	80%	0.0	KW	125%	0.0	KVA
REMAINDER	80%	0.0	KW	100%	0.0	KVA
OTHER	95%	7.6	KW	125%	10.0	KVA
TOTAL		88.5	KW		67.9	KVA

KEY	
	A
MDP	B

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TRINIDAD STATE JUNIOR COLLEGE
MASSARI THEATER

REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO.: 20162
DATE: 6/23/2021

SHEET TITLE: DEMOLITION ONE LINE DIAGRAM

SHEET: ED601

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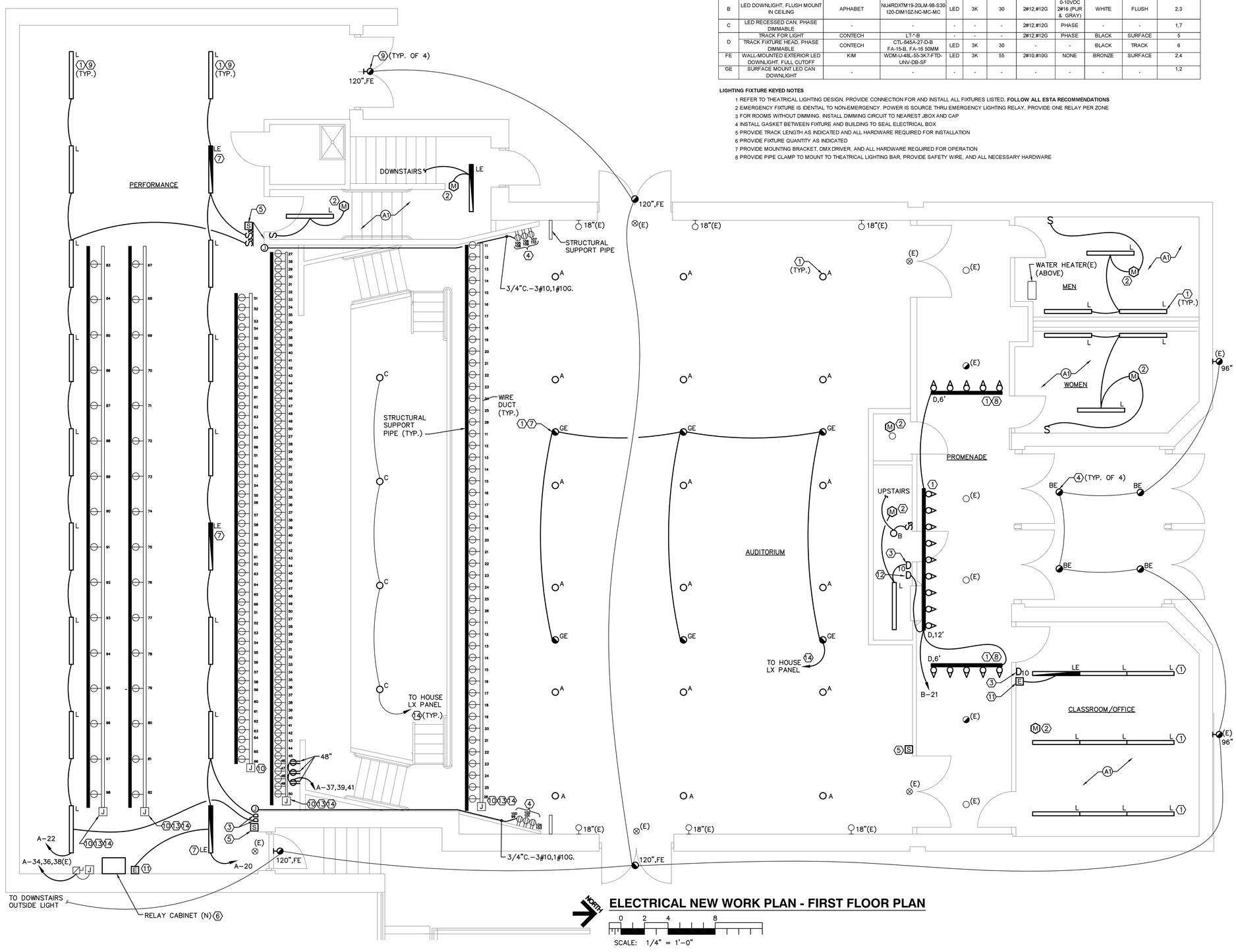
LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS		FIXTURE	CONNECTION		FINISH	MOUNTING	KEYED NOTES
				QUAN.	TYPE	LOAD (VA)	POWER	CONTROL			
**	THEATRICAL LIGHTING	-	-	-	-	-	PLUG	DMX	-	-	1,8
L	LINEAR SURFACE-MOUNT LED, 1% DIMMABLE	COLUMBIA	MPS4-30-ML-CW-ED1-U	LED	3K	40.1	2#10,#10G	0-10VDC 2#16 (PUR & GRAY)	WHITE	SURFACE	3
LE	LINEAR SURFACE-MOUNT LED, 1% DIMMABLE	COLUMBIA	MPS4-30-ML-CW-ED1-U	LED	3K	40.1	3#10,#10G	0-10VDC 2#16 (PUR & GRAY)	WHITE	SURFACE	2
A	PENDANT DOWNLIGHT, HIGH OUTPUT, PHASE DIMMABLE	-	-	-	-	-	2#10,#10G	PHASE	-	-	1
B	LED DOWNLIGHT, FLUSH MOUNT IN CEILING	APHABET	NU4RDXTM19-20LM-98-S30-120-DIM10Z-NC-MC-MC	LED	3K	30	2#12,#12G	0-10VDC 2#16 (PUR & GRAY)	WHITE	FLUSH	2,3
C	LED RECESSED CAN, PHASE DIMMABLE	-	-	-	-	-	2#12,#12G	PHASE	-	-	1,7
D	TRACK FOR LIGHT	CONTECH	LTI-*-B	-	-	-	2#12,#12G	PHASE	BLACK	SURFACE	5
	TRACK FIXTURE HEAD, PHASE DIMMABLE	CONTECH	CTL-845A-27-D-B FA-15-B, FA-16 50MM	LED	3K	30	-	-	BLACK	TRACK	6
FE	WALL-MOUNTED EXTERIOR LED DOWNLIGHT, FULL CUTOFF	KIM	WDM-U-48L-55-3K7-FTD-UNV-DB-SF	LED	3K	55	2#10,#10G	NONE	BRONZE	SURFACE	2,4
GE	SURFACE MOUNT LED CAN DOWNLIGHT	-	-	-	-	-	-	-	-	-	1,2

LIGHTING FIXTURE KEYED NOTES

1 REFER TO THEATRICAL LIGHTING DESIGN, PROVIDE CONNECTION FOR AND INSTALL ALL FIXTURES LISTED, **FOLLOW ALL ESTA RECOMMENDATIONS**
2 EMERGENCY FIXTURE IS IDENTIAL TO NON-EMERGENCY. POWER IS SOURCE THRU EMERGENCY LIGHTING RELAY, PROVIDE ONE RELAY PER ZONE
3 FOR ROOMS WITHOUT DIMMING, INSTALL DIMMING CIRCUIT TO NEAREST JBOX AND CAP
4 INSTALL GASKET BETWEEN FIXTURE AND BUILDING TO SEAL ELECTRICAL BOX
5 PROVIDE TRACK LENGTH AS INDICATED AND ALL HARDWARE REQUIRED FOR INSTALLATION
6 PROVIDE FIXTURE QUANTITY AS INDICATED
7 PROVIDE MOUNTING BRACKET, DMX DRIVER, AND ALL HARDWARE REQUIRED FOR OPERATION
8 PROVIDE PIPE CLAMP TO MOUNT TO THEATRICAL LIGHTING BAR, PROVIDE SAFETY WIRE, AND ALL NECESSARY HARDWARE



ELECTRICAL NEW WORK PLAN - FIRST FLOOR PLAN

GENERAL NOTES

1 PRIOR TO THE INSTALLATION OF THE SYSTEM, A FACTORY AUTHORIZED SERVICE TECHNICIAN SHALL MEET ON SITE WITH THE ELECTRICAL FOREMAN FOR THE PROJECT. AT THIS MEETING THE FOREMAN WILL BE PROVIDED A FULL SET OF APPROVED LIGHTING CONTROL DRAWINGS. THE LIGHTING CONTROL TECHNICIAN WILL REVIEW SENSOR PLACEMENT, OCCUPANCY SENSOR REQUIREMENTS, SWITCH LOCATIONS, WIRING REQUIREMENTS AND ANY OTHER INFORMATION CRITICAL TO THE INSTALLATION OF THE SYSTEM.

2 UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS, PROGRAMMING, SENSOR PLACEMENT, ETC. TO ENSURE A TROUBLE-FREE LIGHTING CONTROL SYSTEM THAT MEETS THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS. LIGHTING COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 IECC.

3 THE MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO TRAIN OWNER PERSONNEL IN THE OPERATION, PROGRAMMING AND MAINTENANCE OF THE LIGHTING CONTROL SYSTEM, INCLUDING ALL OCCUPANCY SENSORS, DIMMERS, ETC.

4 REFER TO TYPICAL OCCUPANCY SENSOR SCHEMATICS.

5 PENDANT MOUNTING: ATTACH LINEAR FIXTURES DIRECTLY TO A CONTINUOUS LENGTH OF STRUT THAT IS SUPPORTED FROM THE STRUCTURE BY THREADED ROD AT BOTH ENDS, AND 6' MAX INTERVALS

6 PENDANT MOUNTING: ATTACH CAN FIXTURES TO THE STRUCTURE INDEPENDENTLY OF THE ELECTRICAL BOX

7 PROVIDE AIMING AND ADJUSTING SERVICES DURING SYSTEM COMMISSIONING FOR ALL LIGHT FIXTURES, NEW AND EXISTING

EMERGENCY LIGHTING

1 EMERGENCY EGRESS FIXTURES ARE IDENTICAL EQUIPMENT TO NON-EMERGENCY FIXTURES. REFER TO WIRING DIAGRAM FOR DIFFERENCE IN CONTROLS AND POWER SOURCE

2 REFER TO LIGHTING WIRING DIAGRAM

3 ALL EMERGENCY POWER CIRCUITS SHALL BE #10 WIRE

(#) KEYNOTES

1 PROVIDE NEW LIGHT FIXTURE PER SCHEDULE, CONNECT TO EXISTING CIRCUIT

2 PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER MODEL DT-355 OR PREAPPROVED EQUAL. IN ADDITION TO THE LINE VOLTAGE WIRING PROVIDE TWO #16 (600V) CONDUCTORS FOR LOW VOLTAGE CONTROL FROM DIMMER TO EACH FIXTURE CONTROLLED BY THE DIMMER

3 PROVIDE NEW DIMMING WALL SWITCH WITH 0-10V DIMMING, PASS & SEYMOUR CD4FBL PREAPPROVED EQUAL. SEE WIRING DIAGRAM. REPULL SWITCHLEG CIRCUIT TO INCLUDE GRAY/PURPLE #16 THHN

4 RECONNECT EXISTING RECEPTACLE TO BACKSTAGE RECEPTACLE IN CONDUIT/WIRE TO REPLACE THE EXISTING SMR AND ROMEX. CIRCUITING AND RECEPTACLES WILL REMAIN THE SAME

5 NEW LOW-VOLTAGE SWITCH SPECIFIED IN THEATRICAL DESIGN. PROVIDE CONNECTION PER THEATRICAL DESIGN SPECIFICATIONS. ALL CONDUIT SHALL BE INSTALLED PER ELECTRICAL SPECS

6 PROVIDE FEEDER TO RELAY CABINET PER ONELINE. SEE JUNCTION BOX DETAIL

7 LIGHT FIXTURE WAS PREVIOUSLY NOT EMERGENCY. CONNECT TO LIGHTING INVERTER AND NORMAL POWER SOURCE PER DETAILS

8 MOUNT ON WALL 12" ABOVE LOBBY CEILING

9 SUSPEND FIXTURE AS PENDENT AT HEIGHT AS DIRECTED BY THEATRICAL DESIGNER

10 EXISTING WIREWAY WILL REMAIN IN PLACE. EXISTING CONDUIT AND CONDUCTORS WILL BE REDIRECTED FROM OLD DIMMING CABINET TO NEW LIGHTING TERMINAL BOX

11 PROVIDE EMERGENCY LIGHTING RELAY (ELR), WATTSTOPPER AD-EPC-D-F-ATS, OR PREAPPROVED EQUAL. PROVIDE NON-SWITCHED EMERGENCY CIRCUIT FROM INVERTER TO ELR, SWITCHED AND NON-SWITCHED BRANCH CIRCUIT FROM ROOM LIGHTING CONTROLS, AND DIMMING CIRCUIT. MOUNT NEAR TO WALL SWITCH IN EACH ROOM. REFER TO DIGITAL EMERGENCY LIGHTING SCHEMATIC DIAGRAM

12 PROVIDE PHASE-DIMMING LIGHT SWITCH, LEGRAND RH703PTUTC OR PREAPPROVED EQUAL. WIRE TO BRANCH CIRCUIT AND FIXTURE WITH 2#12,#12G

13 INSTALL ALL FIXTURES PROVIDED IN THEATRICAL DESIGN. PROVIDE ALL NECESSARY HARDWARE, PIPE CLAMP, AND SAFETY WIRE

14 REDIRECT EXISTING CIRCUIT PER THEATRICAL DETAIL

(#) BID ALTERNATES

A1 ADD ALTERNATE #1

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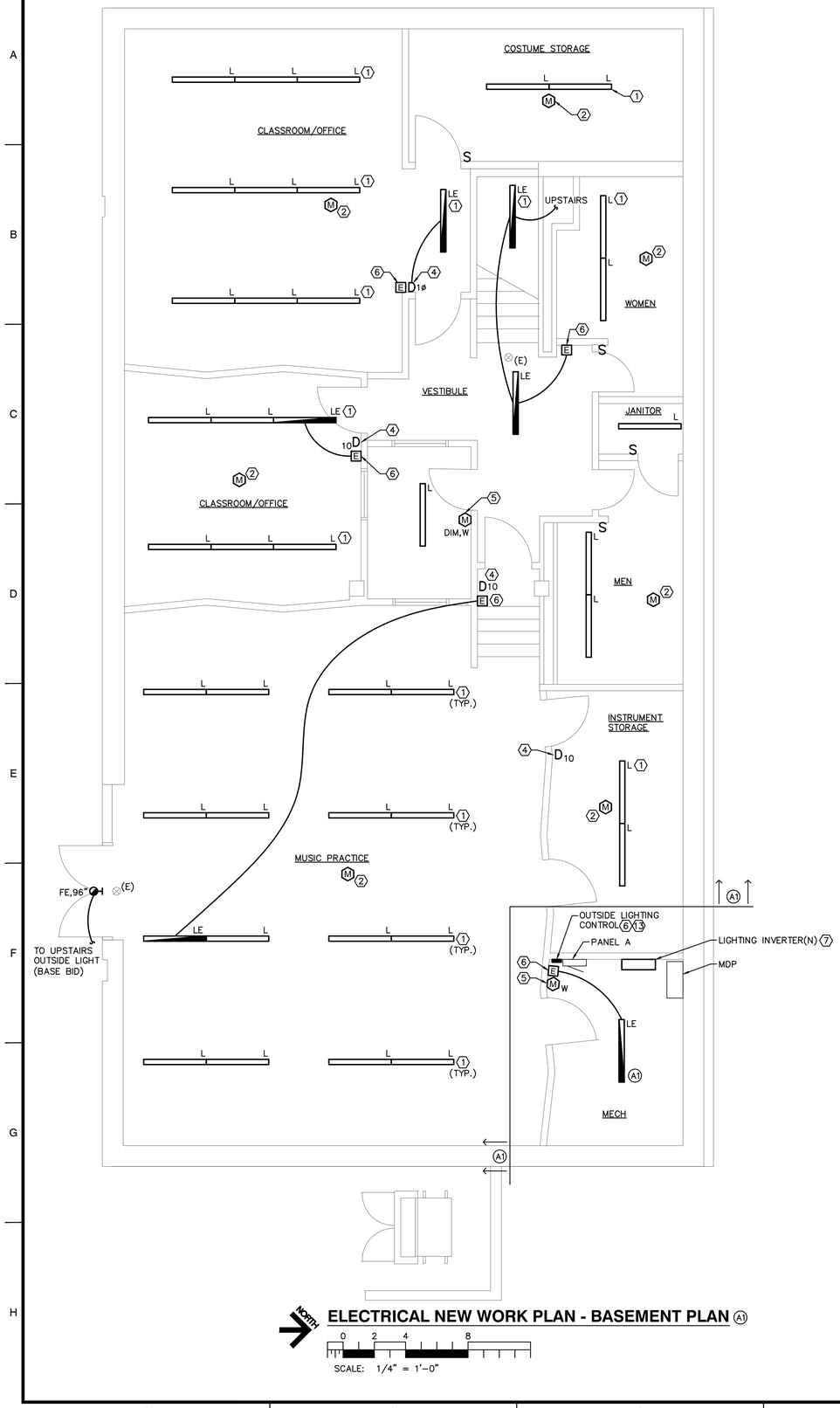
TRINIDAD STATE JUNIOR COLLEGE MASSARI THEATER

REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO.: 20162
DATE: 6/23/2021

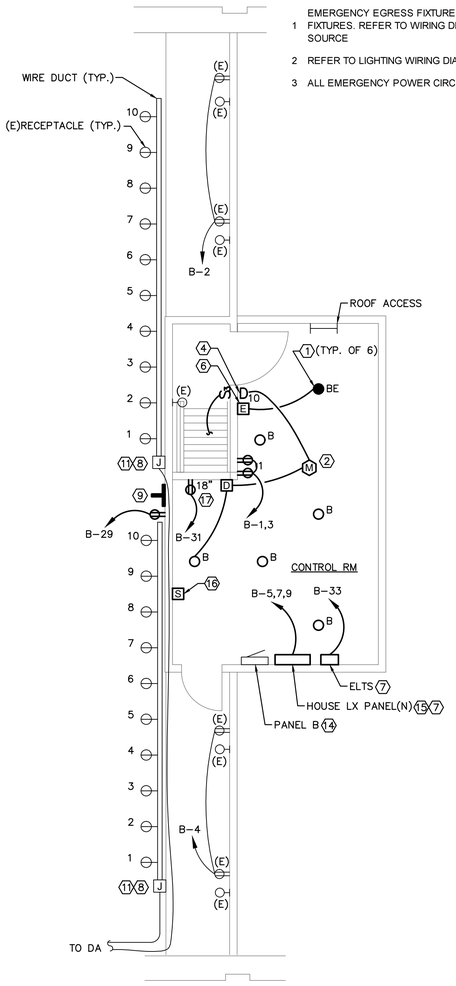
SHEET TITLE: ELECTRICAL NEW WORK PLAN

SHEET: E-101



ELECTRICAL NEW WORK PLAN - BASEMENT PLAN (A1)

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



ELECTRICAL NEW WORK PLAN SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"
ALL BASE BID

GENERAL NOTES

1 PRIOR TO THE INSTALLATION OF THE SYSTEM, A FACTORY AUTHORIZED SERVICE TECHNICIAN SHALL MEET ON SITE WITH THE ELECTRICAL FOREMAN FOR THE PROJECT. AT THIS MEETING THE FOREMAN WILL BE PROVIDED A FULL SET OF APPROVED LIGHTING CONTROL DRAWINGS. THE LIGHTING CONTROL TECHNICIAN WILL REVIEW SENSOR PLACEMENT, OCCUPANCY SENSOR REQUIREMENTS, SWITCH LOCATIONS, WIRING REQUIREMENTS AND ANY OTHER INFORMATION CRITICAL TO THE INSTALLATION OF THE SYSTEM.

2 UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS, PROGRAMMING, SENSOR PLACEMENT, ETC. TO ENSURE A TROUBLE-FREE LIGHTING CONTROL SYSTEM THAT MEETS THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS. LIGHTING COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 IECC.

3 THE MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO TRAIN OWNER PERSONNEL IN THE OPERATION, PROGRAMMING AND MAINTENANCE OF THE LIGHTING CONTROL SYSTEM, INCLUDING ALL OCCUPANCY SENSORS, DIMMERS, ETC.

4 REFER TO TYPICAL OCCUPANCY SENSOR SCHEMATICS.

5 PENDANT MOUNTING: ATTACH LINEAR FIXTURES DIRECTLY TO A CONTINUOUS LENGTH OF STRUT THAT IS SUPPORTED FROM THE STRUCTURE BY THREADED ROD AT BOTH ENDS, AND 6' MAX INTERVALS

6 PENDANT MOUNTING: ATTACH CAN FIXTURES TO THE STRUCTURE INDEPENDENTLY OF THE ELECTRICAL BOX

7 PROVIDE AIMING AND ADJUSTING SERVICES DURING SYSTEM COMMISSIONING FOR ALL LIGHT FIXTURES, NEW AND EXISTING

8 USE ARCHITECTURAL GRADE SWITCHES FOR ALL TOGGLES

EMERGENCY LIGHTING

1 EMERGENCY EGRESS FIXTURES ARE IDENTICAL EQUIPMENT TO NON-EMERGENCY FIXTURES. REFER TO WIRING DIAGRAM FOR DIFFERENCE IN CONTROLS AND POWER SOURCE

2 REFER TO LIGHTING WIRING DIAGRAM

3 ALL EMERGENCY POWER CIRCUITS SHALL BE #10 WIRE

(#) KEYNOTES

1 PROVIDE NEW LIGHT FIXTURE PER SCHEDULE

2 PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER MODEL DT-30055 OR APPROVED EQUAL

4 PROVIDE NEW DIMMING WALL SWITCH WITH 0-10V DIMMING, PASS & SEYMOUR CD4FBL PREAPPROVED EQUAL. SEE WIRING DIAGRAM

5 PROVIDE NEW WALLMOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING, WATTSTOPPER MODEL DW-311 OR PREAPPROVED EQUAL

6 PROVIDE EMERGENCY LIGHTING RELAY (ELR), WATTSTOPPER AD-EPC-D-F-ATS, OR PREAPPROVED EQUAL. PROVIDE NON-SWITCHED EMERGENCY CIRCUIT FROM INVERTER TO ELR, SWITCHED AND NON-SWITCHED BRANCH CIRCUIT FROM ROOM LIGHTING CONTROLS, AND DIMMING CIRCUIT. MOUNT NEAR TO WALL SWITCH IN EACH ROOM. REFER TO DIGITAL EMERGENCY LIGHTING SCHEMATIC DIAGRAM

7 BASE BID - PROVIDE NEW LIGHTING INVERTER AND CONNECTION TO EMERGENCY DISCONNECT PER ONELINE. PROVIDE EMERGENCY POWER FROM INVERTER TO ALL EMERGENCY LIGHTING RELAY (ELR) IN HOUSE LX PANEL AND EMERGENCY LIGHTING FIXTURES

8 REWORK EXISTING CONDUIT TO CONNECT TO NEW DIMMING CABINET. USE FLEX CONDUIT ONLY WHERE REQUIRED PER SPECIFICATION

9 PROVIDE PROJECTOR MOUNT, CHIEF WMA2S WITH RPA AND ADJUSTABLE CMS OR PREAPPROVED EQUAL. PROVIDE UNISTRUT, HARDWARE, AND BRACKETS TO MATCH EXISTING CATWALK CONSTRUCTION. MOUNT OUTSIDE AND BELOW HANDRAIL. SUPPORT TO STRUCTURE USING EXISTING CAST-IN STRUT PAINT TO MATCH EXISTING CATWALK. PROVIDE NEW RECEPTACLE AS SHOWN

10 PROVIDE CAT5E ETHERNET CABLE TO SHARE COMMON RACEWAY WITH 120V POWER. CABLE SHALL BE RATED 300V, SHIELDED, TERMINATED WITH SHIELDING CONNECTORS WHEREVER POSSIBLE. BOND SHIELD TO GROUND

11 INSTALL ALL FIXTURES PROVIDED IN THEATRICAL DESIGN. PROVIDE ALL NECESSARY HARDWARE, PIPE CLAMP, AND SAFETY WIRE

12 PROVIDE RED SWITCH WITH RED DEVICE PLATE. REFER TO WIRING DIAGRAM. PROVIDE ENGRAVED LABEL "EM TEST SWITCH"

13 BASE BID - REPLACE EXISTING LIGHTING TIMECLOCK, CONNECT TO (AND PROVIDE) EMERGENCY LIGHTING RELAY FOR EXTERIOR EMERGENCY EGRESS LIGHT FIXTURES. PROVIDE INTERMATIC ET8000, DUAL RELAY, IN STEEL ENCLOSURE. REFER TO WIRING DIAGRAM

14 PERFORM 30-DAY LOAD DEMAND STUDY FOR PANEL B USING POWER QUALITY METER. PROVIDE DATA RESULTS AND REPORT TO SCHENDT ENGINEERING

15 PROVIDE BRANCH CIRCUIT CONNECTION TO CONTROL PANEL

16 NEW LOW VOLTAGE SWITCH AND KEYSWITCH

17 PROVIDE NEW RECEPTACLE AND BRANCH CIRCUIT CONNECTION.

(#) BID ALTERNATES

A1 ADD ALTERNATE #1

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS		FIXTURE	CONNECTION		FINISH	MOUNTING	KEYED NOTES
				QUAN.	TYPE	LOAD (VA)	POWER	CONTROL			
**	THEATRICAL LIGHTING	-	-	-	-	-	PLUG	DMX	-	-	1,8
L	LINEAR SURFACE-MOUNT LED, 1% DIMMABLE	COLUMBIA	MPS4-30-ML-CW-ED1-U	LED	3K	40.1	2#10,#10G	0-10VDC 2#16 (PUR & GRAY)	WHITE	SURFACE	3
LE	LINEAR SURFACE-MOUNT LED, 1% DIMMABLE	COLUMBIA	MPS4-30-ML-CW-ED1-U	LED	3K	40.1	3#10,#10G	0-10VDC 2#16 (PUR & GRAY)	WHITE	SURFACE	2
A	PENDANT DOWNLIGHT, HIGH OUTPUT, PHASE DIMMABLE	-	-	-	-	-	2#10,#10G	PHASE	-	-	1
B	LED DOWNLIGHT, FLUSH MOUNT IN CEILING	APHABET	NU4RDXTM19-20LM-98-S30-120-DIM10Z-NC-MC-MC	LED	3K	30	2#12,#12G	0-10VDC 2#16 (PUR & GRAY)	WHITE	FLUSH	2,3
C	LED RECESSED CAN, PHASE DIMMABLE	-	-	-	-	-	2#12,#12G	PHASE	-	-	1,7
	TRACK FOR LIGHT	CONTECH	LT-*-B	-	-	-	2#12,#12G	PHASE	BLACK	SURFACE	5
D	TRACK FIXTURE HEAD, PHASE DIMMABLE	CONTECH	CTL-845A-27-D-B FA-15-B, FA-16 50MM	LED	3K	30	-	-	BLACK	TRACK	6
FE	WALL-MOUNTED EXTERIOR LED DOWNLIGHT, FULL CUTOFF	KIM	WDM-U-48L-55-3K7-FTD-UNV-DB-SF	LED	3K	55	2#10,#10G	NONE	BRONZE	SURFACE	2,4
GE	SURFACE MOUNT LED CAN DOWNLIGHT	-	-	-	-	-	-	-	-	-	1,2

LIGHTING FIXTURE KEYED NOTES

1 REFER TO THEATRICAL LIGHTING DESIGN. PROVIDE CONNECTION FOR AND INSTALL ALL FIXTURES LISTED. **FOLLOW ALL ESTA RECOMMENDATIONS**
2 EMERGENCY FIXTURE IS IDENTIAL TO NON-EMERGENCY. POWER IS SOURCE THRU EMERGENCY LIGHTING RELAY, PROVIDE ONE RELAY PER ZONE
3 FOR ROOMS WITHOUT DIMMING, INSTALL DIMMING CIRCUIT TO NEAREST JBOX AND CAP
4 INSTALL GASKET BETWEEN FIXTURE AND BUILDING TO SEAL ELECTRICAL BOX
5 PROVIDE TRACK LENGTH AS INDICATED AND ALL HARDWARE REQUIRED FOR INSTALLATION
6 PROVIDE FIXTURE QUANTITY AS INDICATED
7 PROVIDE MOUNTING BRACKET, DMX DRIVER, AND ALL HARDWARE REQUIRED FOR OPERATION
8 PROVIDE PIPE CLAMP TO MOUNT TO THEATRICAL LIGHTING BAR, PROVIDE SAFETY WIRE, AND ALL NECESSARY HARDWARE

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TRINIDAD STATE JUNIOR COLLEGE MASSARI THEATER

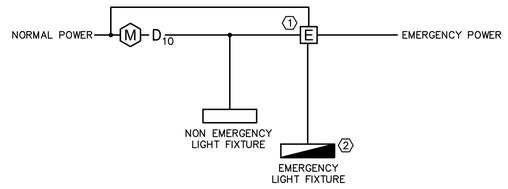
REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO: 20162
DATE: 6/23/2021

SHEET TITLE: ELECTRICAL NEW WORK PLANS

SHEET: E-102

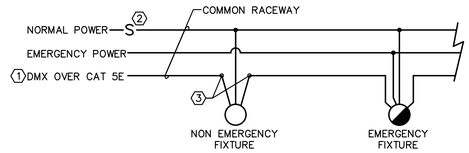
P:\2020\20162 TSJC Massari\DWG\Elec\ 20162 E-102.dwg Jun 22, 2021 - 10:06am



ELR WIRING DIAGRAM
NO SCALE

KEYNOTES

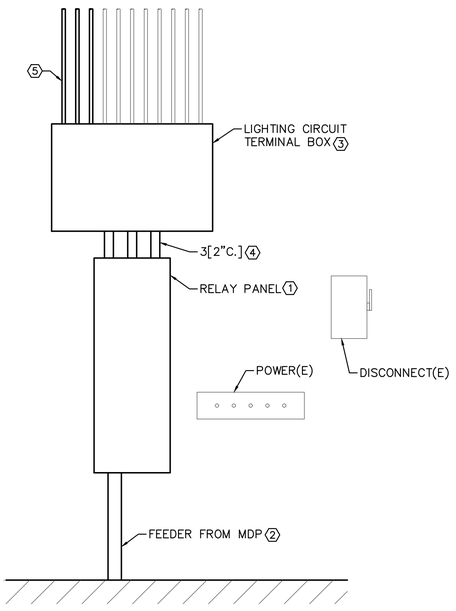
1. MOUNT IN ACCESSIBLE LOCATION FOR TESTING, EMERGENCY LIGHTING RELAY.
2. EMERGENCY FIXTURES BEHAVE LIKE NON-EMERGENCY UNTIL POWER OUTAGE.



HOUSE EMERGENCY LIGHTING
NO SCALE

KEYNOTES

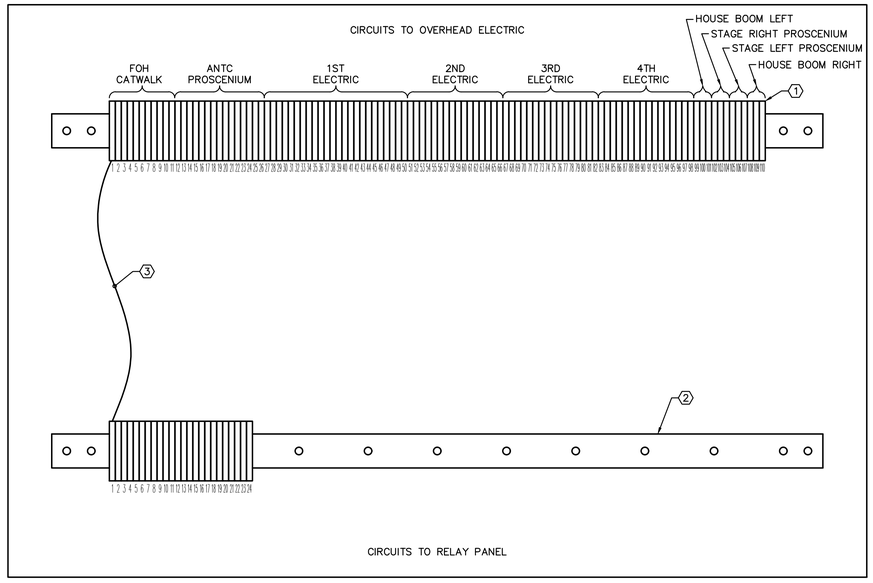
1. USE 300V RATED CABLE FOR CONTROL, BOND SHIELD TO GROUND.
2. EMERGENCY LIGHTING TEST SWITCH. PROVIDE PHENOLIC LABEL ON SWITCH.
3. DMX CONTROLS OVER CAT 5E, DAISY CHAIN ALL FIXTURES PER THEATRICAL LIGHTING DESIGN. TERMINATE WITH SHIELDED CONNECTORS IF POSSIBLE TO FIT INSIDE FIXTURE, OTHERWISE CONNECT SHIELD OF CABLES TOGETHER AND TAPE/INSULATE FROM GROUND.



BACKSTAGE CONTROLS - ELEVATION VIEW
NO SCALE

(#) ELEVATION NOTES

1. PROVIDE NEW RELAY PANEL SPECIFIED IN THEATRICAL DESIGN. MOUNT TO WALL PER SPECIFICATIONS
2. PROVIDE NEW FEEDER TO RELAY PANEL PER ONELINE
3. PROVIDE JUNCTION BOX FOR USE IN LIGHTING CIRCUIT INTERCONNECT. PROVIDE MILD STEEL, HINGED COVER, 24X36", OR APPROVED EQUAL
4. PROVIDE 3[2"C] NIPPLES BETWEEN RELAY PANEL AND LIGHTING CIRCUIT TERMINAL BOX
5. CONNECT EXISTING LIGHITNG CIRCUIT CONDUITS TO LIGHTING CIRCUIT TERMINAL BOX. PULL BACK CONDUCTORS AND REDIRECT INTO BOX WITHOUT DAMAGE



LIGHTING CIRCUIT TERMINAL BOX - WIRING DIAGRAM
NO SCALE

GENERAL

1. CONTROL WIRING TO PUSHBUTTON STATIONS, ETC. NOT SHOWN. ALL CONTROL CIRCUITS ARE EXPECTED TO PASS THRU THIS BOX UNBROKEN

(#) WIRING DIAGRAM NOTES

1. PROVIDE LABELED TERMINATIONS FOR EXISTING LIGHTING CIRCUITS TO OVERHEAD ELECTRICS. PROVIDE DIN RAIL AND TERMINAL BLOCK TO CONNECT EXISTING LIGHTING CIRCUIT. PROVIDE TWO-LEVEL TERMINALS WITH GROUND, PHOENIX CONTACT DOK 1,5-2D - 2717139 OR APPROVED EQUAL. PROVIDE DINRAIL WITH 2" STANDOFF
2. PROVIDE LABELED TERMINATIONS FOR NEW RELAY PANEL CIRCUITS. PROVIDE DIN RAIL AND TERMINAL BLOCK TO CONNECT EXISTING LIGHTING CIRCUIT. PROVIDE TWO-LEVEL TERMINALS WITH GROUND, PHOENIX CONTACT DOK 1,5-2D - 2717139 OR APPROVED EQUAL. PROVIDE DINRAIL WITH 2" STANDOFF
3. PROVIDE INTERCONNECT FROM RELAY PANEL TO OVER HEAD ELECTRIC CIRCUITS PER TABLE (THIS SHEET)

CIRCUIT #	RELAY #
1	1
2	2
3	3
4	4
7	3
8	4
9	3
10	4
11	5
13	6
15	7
17	8
19	5
21	6
23	7
25	8
27	11
31	12
35	11
39	12
43	11
47	12
51	13
53	14
55	15
57	13
59	14
61	15
63	13
65	14
66	15
67	16
68	17
69	18
70	16
71	17
72	18
73	16
74	17
75	18
76	16
77	17
78	18
79	16
80	17
81	18
83	19
84	20
85	21
86	22
87	19
88	20
89	21
90	22
91	19
92	20
93	21
94	22
95	19
96	20
97	21
98	22
99	10
100	10
101	10
102	24
103	24
104	24
105	23
106	23
107	23
108	9
109	9
110	9

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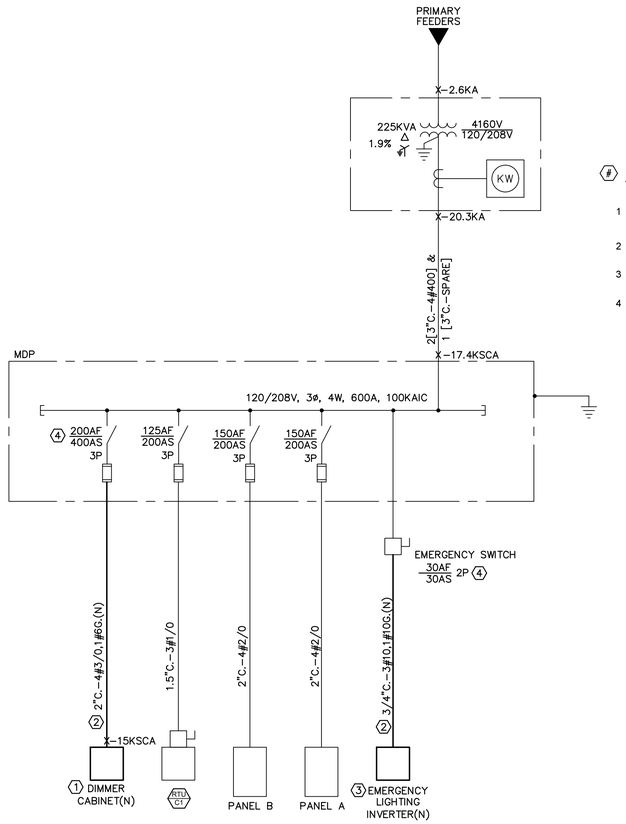
TRINIDAD STATE JUNIOR COLLEGE MASSARI THEATER

REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO.: 20162
DATE: 6/23/2021

SHEET TITLE: DETAILS

SHEET: E-501



DEMOLITION ONE LINE DIAGRAM

NO SCALE

KEYNOTES

1 NEW DIMMER CABINET IS PROVIDED BY THEATRICAL SCOPE. INSTALL AND CONNECT PER MANUFACTURER RECOMMENDATIONS. EQUIPMENT SHALL BE RATED FOR GREATER THAN 22KAIC

2 PROVIDE NEW FEEDER PER SPECIFICATIONS

3 PROVIDE NEW LIGHTING INVERTER, INSTALL AND CONNECT PER MANUFACTURER RECOMMENDATION. DUALLITE D120-27S120-A2002

4 REPLACE FUSES

PANEL:	A (NEW)					TYPE:	LIGHTING								PROJECT NAME:	TSJC MASSARI THEATER									
FED FROM:	MDP					MOUNTING:	SURFACE								PROJECT NO.:	20162									
VOLTAGE:	120/ 208					NEUTRAL BUS:	Y		NOTES:	THIS IS AN EXISTING PANEL															
PHASE:	3 PHASE, 4 WIRE					GROUND BUS:	Y			[N] PROVIDE NEW CIRCUIT BREAKER AND BRANCH CIRCUIT															
MAIN OC DEVICE:	MLO AMPS					ISO GND:	N																		
MAIN LUGS:	225 AMPS																								
A.I.C. RATING:	10000 AMPS																								
DESCRIPTION	LTG (VA)		RECEP	MOTOR	OTHER	TOTAL	BRKR		CIRCUIT	BRKR		TOTAL	OTHER	MOTOR	RECEP	LTG (VA)		DESCRIPTION							
	FL/HD	LED	(VA)	(VA)	(VA)	(VA)	AMP	P	PHASE	P	AMP	(VA)	(VA)	(VA)	(VA)	LED	FL/HD								
E SILVER POLE LIGHT	1000					1000	20	-	01 A 02	1	20	1600					1600	LIGHTS, RM 200							
E SILVER POLE LIGHT	1000					1000	-	2	03 B 04	1	20	1600					1600	LIGHTS RM 200							
SPARE						0	20	1	05 C 06	1	20	1500					1500	LIGHTS RM 201,202,208							
RECEP OUTSIDE CEMENT WALL			1080			1080	20	1	07 A 08	1	20	800					800	LIGHTS RM 205,206,207							
RECEP WATERCOOLER, 202,204			1260			1260	20	1	09 B 10	-	20	1000	1000					HEATER STAIRWELL							
RECEP GFI BATHROOM & STORAGE			1080			1080	20	1	11 C 12	2	-	1000	1000					HEATER STAIRWELL							
RECEP RM 201,202			900			900	20	1	13 A 14	-	60	4500	4500					WATER HEATER COSTUME STORAGE							
PLUG MOLD AUDIO 208			1000			1000	20	1	15 B 16	2	-	4500	4500					WATER HEATER COSTUME STORAGE							
PLUG MOLD AUDIO 208			1000			1000	20	1	17 C 18	1	15	280		280				EXHAUST FAN 204							
RECEP ORCHESTRA PIT			900			900	20	1	19 A 20	1	20	0						SPARE							
RECEP ORCHESTRA PIT & WEST AUDITORIUM			1080			1080	20	1	21 B 22	1	20	0						SPARE							
RECEP STAGE			1500			1500	20	1	23 C 24	1	20	1500			1500			RECEP STAGE							
RECEP TELEPHONE			1080			1080	20	1	25 A 26	1	20	900			900			RECEP STAGE							
TIMECLOCK	1100					1100	20	1	27 B 28	1	20	1000			1000			RECEP STAGE							
TIMECLOCK	725					725	20	1	29 C 30	1	20	500	500					FIRE ALARM PANEL							
FURNACE				1440		1440	20	1	31 A 32	1	30	0						SPARE							
[N] STAGE WORK LIGHTS		**400**				**400**	**20**	**1**	33 B 34	-	100	6000			6000			CAMLOCK ON STAGE							
[N] STAGE WORK LIGHTS		**400**				**400**	**20**	**1**	35 C 36	-	-	6000			6000			CAMLOCK ON STAGE							
[N] STAGE A/V RACK			**1000**			1000	**20**	**1**	37 A 38	3	-	6000			6000			CAMLOCK ON STAGE							
[N] STAGE A/V RACK			**1000**			**1000**	**20**	**1**	39 B 40	**1**	**20**	**0**						**[N] SPARE**							
[N] STAGE A/V RACK			**1000**			**1000**	**20**	**1**	41 C 42	**1**	**20**	**0**						**[N] SPARE**							

PANEL LOAD SUMMARY

CONNECTED LOAD AND PHASE SUMMARY						DEMAND LOAD SUMMARY				
LOAD TYPE	PH A	PH B	PH C		TOTAL	LOAD TYPE	POWER FACTOR	CONNECTED LOAD (KW)	DEMAN NEC FACTOR	CALCULATED LOAD (KVA)
LIGHTING LED	0.0	0.4	0.4	KVA	0.8 KVA	LIGHTING LED	100%	0.8 KW	125%	1.0 KVA
LIGHTING FL/HID	3.4	3.7	2.2	KVA	9.3 KVA	LIGHTING FL/HID	95%	8.9 KW	125%	11.7 KVA
RECEPTACLES	11.9	11.3	12.1	KVA	35.3 KVA	RECEPTACLES				
MOTORS	1.4	0.0	0.3	KVA	1.7 KVA	FIRST 10KVA	95%	9.5 KW	100%	10.0 KVA
OTHER	4.5	5.5	1.5	KVA	11.5 KVA	REMAINDER	95%	24.0 KW	50%	12.6 KVA
						MOTORS				
TOTAL	21.2	20.9	16.5	KVA	58.6 KVA	LARGEST	80%	1.2 KW	125%	1.8 KVA
						REMAINDER	80%	0.2 KW	100%	0.3 KVA
PHASE BALANCE	A-B	B-C	C-A	PNL PF =	0.95	OTHER	95%	10.9 KW	125%	14.4 KVA
	99%	79%	78%							
MIN PANEL AMPACITY =	144 AMPS					TOTAL		55.5 KW		51.8 KVA

PANEL:	B (NEW)					TYPE:	LIGHTING								PROJECT NAME:	TSJC MASSARI THEATER									
FED FROM:	MDP					MOUNTING:	SURFACE								PROJECT NO.:	20162									
VOLTAGE:	120/ 208					NEUTRAL BUS:	Y		NOTES:	THIS IS AN EXISTING PANEL															
PHASE:	3 PHASE, 4 WIRE					GROUND BUS:	Y			[N] PROVIDE NEW BREAKER AND BRANCH CIRCUIT															
MAIN OC DEVICE:	150 AMPS					ISO GND:	N																		
MAIN LUGS:	150 AMPS																								
A.I.C. RATING:	10000 AMPS																								
DESCRIPTION	LTG (VA)		RECEP	MOTOR	OTHER	TOTAL	BRKR		CIRCUIT	BRKR		TOTAL	OTHER	MOTOR	RECEP	LTG (VA)		DESCRIPTION							
	FL/HD	LED	(VA)	(VA)	(VA)	(VA)	AMP	P	PHASE	P	AMP	(VA)	(VA)	(VA)	(VA)	LED	FL/HD								
[N] RECEP BOOTH SOUND SYSTEM			**1800**			**1800**	**20**	**1**	01 A 02	1	20	1000					1000	LIGHTS AISLE CATWALK WEST							
[N] RECEP BOOTH SOUND SYSTEM			**1800**			**1800**	**20**	**1**	03 B 04	1	20	1000					1000	LIGHTS AISLE CATWALK EAST							
[N] HOUSE LX PANEL						0	20	1	05 C 06	1	20	875					875	LIGHTS RM 300 & STAIRWELL							
[N] HOUSE LX PANEL						0	**30**	**1**	07 A 08	-	20	1000	1000					HEAT MENS RM							
[N] HOUSE LX PANEL						0	**20**	**1**	09 B 10	2	-	1000	1000					HEAT MENS RM							
HEATER RM 102					1000	1000	20	-	11 C 12	-	20	1000	1000					HEAT WOMENS RM							
HEATER RM 102					1000	1000	-	2	13 A 14	2	-	1000	1000					HEAT WOMENS RM							
HEATER TICKET BOOTH					1000	1000	20	-	15 B 16	-	60	0						SPARE							
HEATER TICKET BOOTH					1000	1000	-	2	17 C 18	2	-	0						SPARE							
LIGHTS RM 102,104, 105,RESTROOMS	1500					1500	20	1	19 A 20	1	20	1000			1000			RECEP LIGHTS JANITOR							
LIGHTS RM 103,TICKET BOOTH	1200					1200	20	1	21 B 22	1	20	720			720			RECEP RM 102,103							
RECEP S WALL RM 300			360			360	20	1	23 C 24	1	20	180			180			RECEP EAST WALL AUDITORIUM							
RECEP SOUTH WALL RM 300			360			360	20	1	25 A 26	1	20	540			540			RECEP N WALL RM 300 & ROOF							
RECEP SOUTH WALL RM 300			180			180	20	1	27 B 28	1	20	0						DOOR OPERATORS							
[N] PROJECTOR RECEPTACLE						0	-		29 C 30	-	40	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 1)							
[N] UPS RECEPTACLE						0	-		31 A 32	2	-	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 1)							
[N] EMERGENCY LGTS XFER SWITCH						0	20	1	33 B 34	-	40	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 2)							
SPARE						0	20	1	35 C 36	2	-	17000			17000			WATERHEATER ABOVE RR (CIRCUIT 2)							
SPACE						0	-		37 A 38	-	-	0						SPACE							
SPACE						0	-		39 B 40	-	-	0						SPACE							
SPACE						0	-		41 C 42	-	-	0						SPACE							

PANEL LOAD SUMMARY

CONNECTED LOAD AND PHASE SUMMARY						DEMAND LOAD SUMMARY				
LOAD TYPE	PH A	PH B	PH C		TOTAL	LOAD TYPE	POWER FACTOR	CONNECTED LOAD (KW)	DEMAN NEC FACTOR	CALCULATED LOAD (KVA)
LIGHTING LED	0.0	0.0	0.0	KVA	0.0 KVA	LIGHTING LED	100%	0.0 KW	125%	0.0 KVA
LIGHTING FL/HID	2.5	2.2	0.9	KVA	5.6 KVA	LIGHTING FL/HID	95%	5.3 KW	125%	7.0 KVA
RECEPTACLES	20.7	19.7	34.5	KVA	74.9 KVA	RECEPTACLES				
MOTORS	0.0	0.0	0.0	KVA	0.0 KVA	FIRST 10KVA	95%	9.5 KW	100%	10.0 KVA
OTHER	3.0	2.0	3.0	KVA	8.0 KVA	REMAINDER	95%	61.7 KW	50%	32.5 KVA
						MOTORS				
TOTAL	26.2	23.9	38.4	KVA	88.5 KVA	LARGEST	80%	0.0 KW	125%	0.0 KVA
						REMAINDER	80%	0.0 KW	100%	0.0 KVA
PHASE BALANCE	A-B	B-C	C-A	PNL PF =	0.95	OTHER	95%	7.6 KW	125%	10.0 KVA
	91%	62%	68%							
MIN PANEL AMPACITY =	165 AMPS					TOTAL		84.1 KW		59.4 KVA

PANEL:	MDP (NEW)					TYPE:	LIGHTING								PROJECT NAME:	TSJC MASSARI THEATER									
FED FROM:	UTILITY					MOUNTING:	SURFACE								PROJECT NO.:	20162									
VOLTAGE:	120/ 208					NEUTRAL BUS:	Y		NOTES:	THIS IS AN EXISTING PANEL															
PHASE:	3 PHASE, 4 WIRE					GROUND BUS:	Y			[N] NEW LOAD WITH THIS PROJECT, PROVIDE NEW FUSES															
MAIN OC DEVICE:	MLO AMPS					ISO GND:	N																		
MAIN LUGS:	600 AMPS																								
A.I.C. RATING:	200000 AMPS																								
DESCRIPTION	LTG (VA)		RECEP	MOTOR	OTHER	TOTAL	FUSE		CIRCUIT	FUSE		TOTAL	OTHER	MOTOR	RECEP	LTG (VA)		DESCRIPTION							
	FL/HD	LED	(VA)	(VA)	(VA)	(VA)	AMP	P	PHASE	P	AMP	(VA)	(VA)	(VA)	(VA)	LED	FL/HD								
PANEL A	4850	0	1900	0		6750	150		A		125	11400		11400				RTU-1							
PANEL A	6550	0	900	0		7450			B			11400		11400				RTU-1							
PANEL A	2375	0	540	0		2915		3	C	3		11400		11400				RTU-1							
PANEL B	4850	0	1900	0	7312.5	14062.5	150		A		**200**	**9400**					**9400**	**[N] DIMMER**							
PANEL B	6550	0	900	0	6312.5	13762.5			B			**9400**					**9400**	**[N] DIMMER**							
PANEL B	2375	0	540	0	11625	14540		3	C	**3**		**9400**					**9400**	**[N] DIMMER**							
[N] LIGHTING INVERTER						**0**	**30**		A			0													
[N] LIGHTING INVERTER						**0**		**2**	B			0													
									C			0													

PANEL LOAD SUMMARY

CONNECTED LOAD AND PHASE SUMMARY						DEMAND LOAD SUMMARY				
LOAD TYPE	PH A	PH B	PH C		TOTAL	LOAD TYPE	POWER FACTOR	CONNECTED LOAD (KW)	DEMAN NEC FACTOR	CALCULATED LOAD (KVA)
LIGHTING LED	9.4	9.4	9.4	KVA	28.2 KVA	LIGHTING LED	100%	28.2 KW	125%	35.3 KVA
LIGHTING FL/HID	9.7	13.1	4.8	KVA	27.6 KVA	LIGHTING FL/HID	95%	26.2 KW	125%	34.4 KVA
RECEPTACLES	3.8	1.8	1.1	KVA	6.7 KVA	RECEPTACLES				
MOTORS	11.4	11.4	11.4	KVA	34.2 KVA	FIRST 10KVA	95%	6.3 KW	100%	6.7 KVA
OTHER	7.3	6.3	11.6	KVA	25.3 KVA	REMAINDER	95%	0.0 KW	50%	0.0 KVA
						MOTORS				
TOTAL	41.6	42.0	38.3	KVA	121.9 KVA	LARGEST	80%	27.4 KW	125%	42.8 KVA
						REMAINDER	80%	0.0 KW	100%	0.0 KVA
PHASE BALANCE	A-B	B-C	C-A	PNL PF =	0.92	OTHER	95%	24.0 KW	125%	31.6 KVA
	99%	91%	92%							
MIN PANEL AMPACITY =	418 AMPS					TOTAL		112.1 KW		150.7 KVA

KEY	
	A
MDP	B

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TRINIDAD STATE JUNIOR COLLEGE
MASSARI THEATER

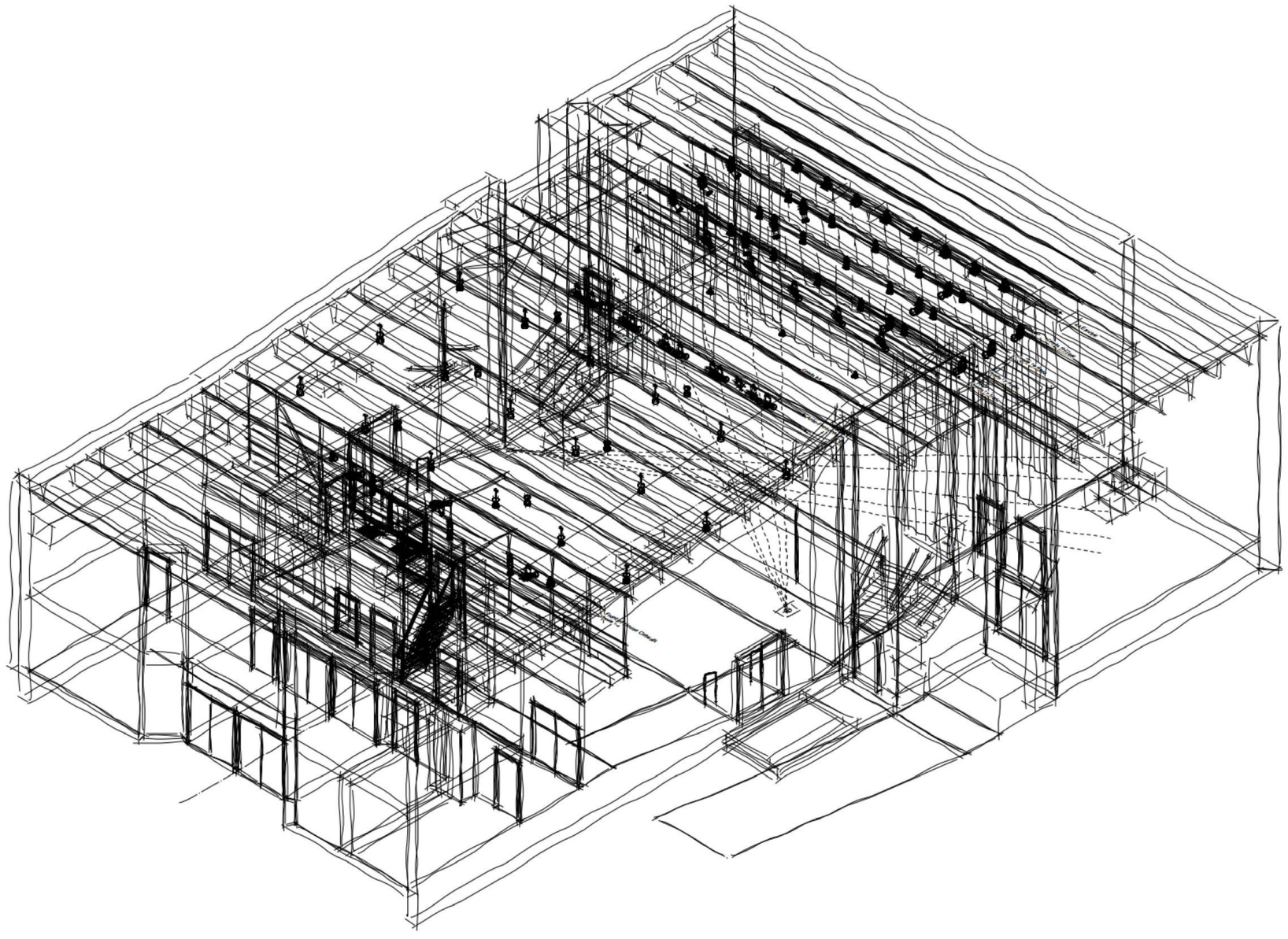
REVISIONS

DESIGNED BY: JMS
DRAWN BY: MES
CHECKED BY: JCP
PROJECT NO.: 20162
DATE: 6/23/2021

SHEET TITLE: NEW WORK ONE LINE DIAGRAM

SHEET: E-601

P:\2020\20162 TSJC Massari\DWG\Elec\ 20162 E-601.dwg Jun 22, 2021 - 10:06am



FOR DETAILS OF THE BASE BID AND WHICH ITEMS ARE ALTERNATES, SEE PROJECT MANUAL SECTION 26 55 61

ADD ALTERNATES:
1. ADDT'L INTERIOR LIGHTING (SEE E-101 & E-102)
2. STAGE FLOOR RENOVATION (TS-106)
3. THEATRICAL LIGHTING SPARE EQUIPMENT
4. THEATRICAL AUDIO/VIDEO SPARE EQUIPMENT
5. WIRELESS MICROPHONE SYSTEM
6. MONITORING & PAGE SYSTEM
7. SCRIM CURTAIN
8. STOCK FABRIC

THEATRE SYSTEMS DRAWING PACKAGE

CONTENTS:

REVSION TIMELINE:

No.	Description	Date:
1	PROPOSED LIGHTING PLOT	19.11.2020
2	ADDED SHTS 2-6	14.12.2020
3	REDES. LX SYSTEM UPD. 2-12	18.12.2020
4	CHANNEL UPDATES, NEW SHT-7	20.12.2020
5	NEW PAGE NUMBER SCHEME	21.12.2020
6	ADD ML, LW CHANGES, UPDATES	05.01.2021
7	ADD/ALTS, MINOR UPDATES	28.01.2021
8	△1 STATE REVIEW CHANGES	24.02.2021
9	FOR CONSTRUCTION	14.04.2021
10	RFI UPDATES	17.05.2021
11	VALUE ENGINEERING 1	04.06.2021
12	REMOVED STAGE RACK	08.06.2021
13	REVIEW EDITS/EMERGENCY LIGHTS	15.06.2021
14	TSJC REVIEW UPDATES	16.06.2021

Austin Allen

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Org: TRINIDAD STATE JUNIOR COLLEGE
Des: G. AUSTIN ALLEN

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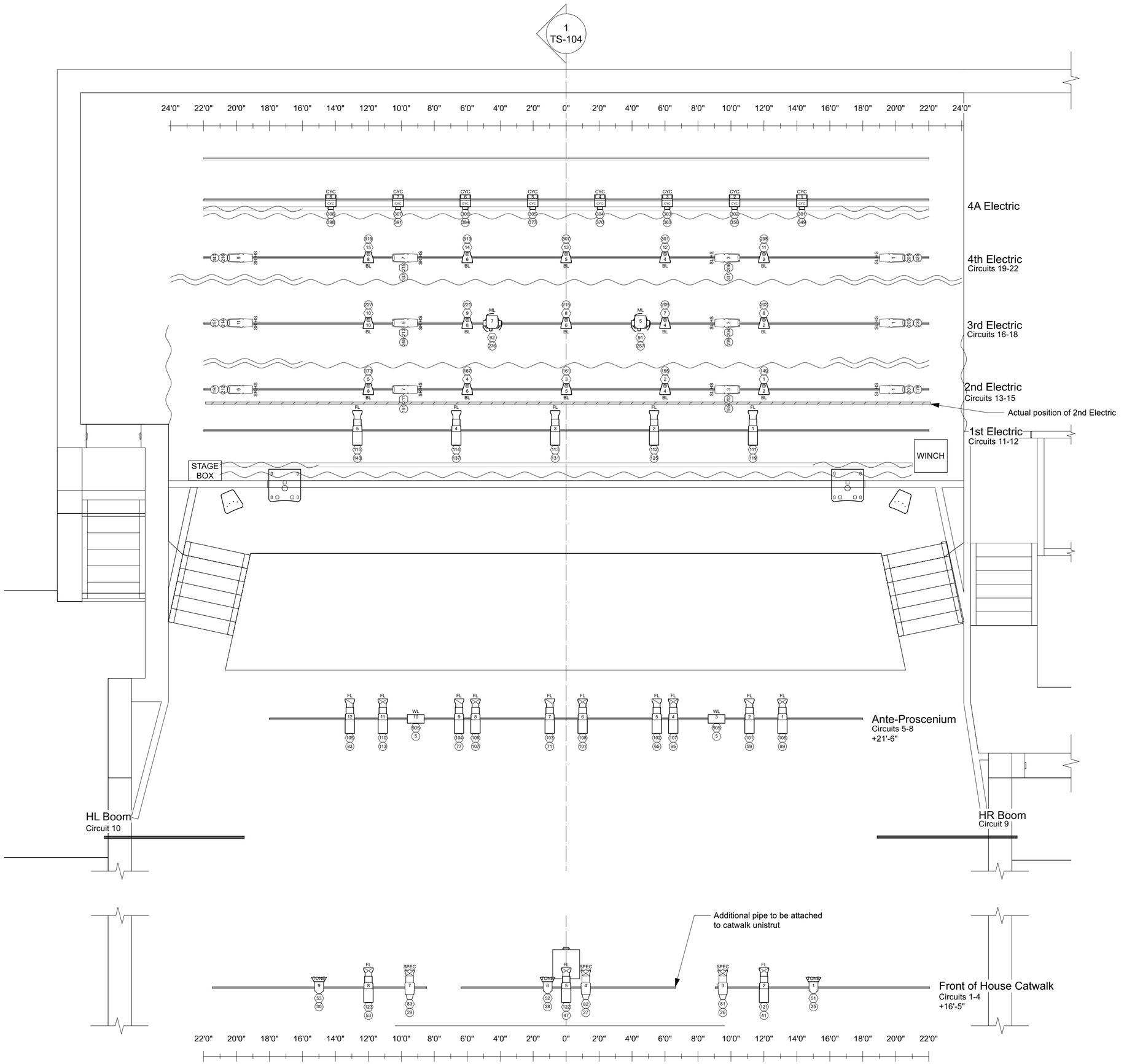
SCALE: NTS
REVISION 14
DATE: 16 JUNE 2021
DRAWN: GAA

SHEET:
TS-001



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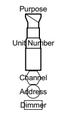
NOTES:
1) 2nd Electric, FOH Catwalk, HL/HR Booms shown out of place for clarity.
2) FOH (L&R), AP, 1st, 2nd, 3rd, 4th Electrics have permanent raceways installed above the instrument pipe. 4A has no permanent power.
3) All pipes are dead-hung.
4) Addt'l pipe to be added for FOH Center position [TRDI].
5) Conventional fixtures are from existing stock (see spec).

Symbol Key

Light

Altman 6in Fres @ 500w 11.5 lbs	3
ETC ColorSource PAR Round @ 90w 8.3 lbs	15
ETC ColorSource Spot Jr @ 166w 12 lbs	12
ETC ColorSource Spot 19deg @ 160w 17 lbs	8
ETC ColorSource Spot 26deg @ 160w 17 lbs	5
ETC ColorSource Spot 36deg @ 160w 17 lbs	5
ETC Source4 19deg @ 575w 14 lbs	3
ETC ColorSource CYC @ 133w 12.9 lb	8
Elation Fuze Wash Z120 @ 157 w 22 lbs	2
Altman LED Worklight @ 130 w 12 lb	2

Typical



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SCALE: 1/4" = 1'-0"
REVISION 14
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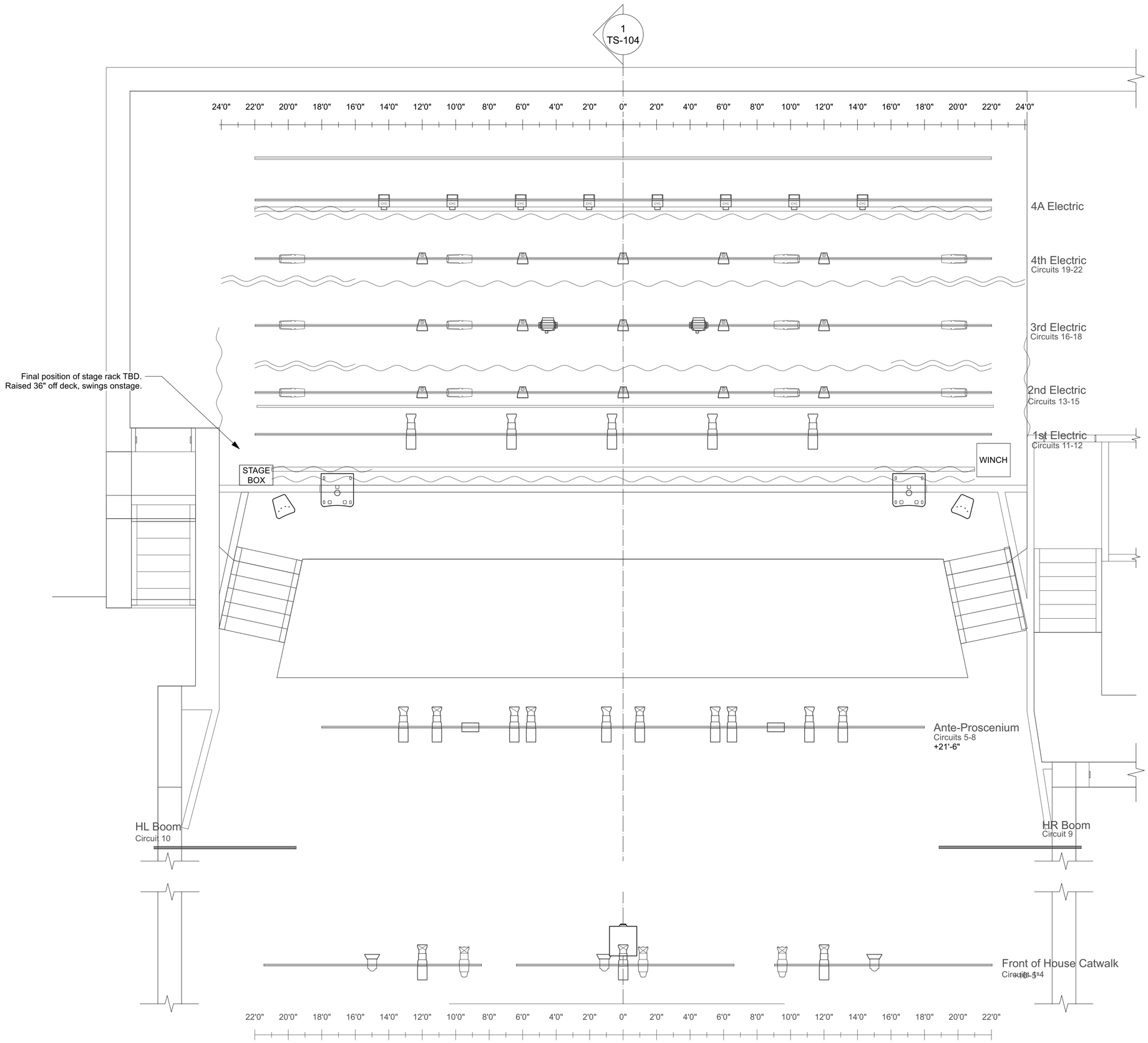
DRAWN: GAA

SHEET:
TS-101



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NOTES:
1) Left & right mains speakers shall be mounted securely on the proscenium arch in a manner that allows minute focusing.
2) Subwoofers shall be placed on the deck just inside the proscenium archway.
3) FOH Catwalk, 2nd Electric, HL/HR Booms shown out of place for clarity.
4) Projector shall be mounted on wall mount type fixture (Chief WMA2S), secured to catwalk strut.
5) Projector is provided by TSJC.

Symbol Key

	QSC E118SW Subwoofer	2
	QSC E112 Main Speaker	2
	Panasonic PT-RZ120 Projector	1

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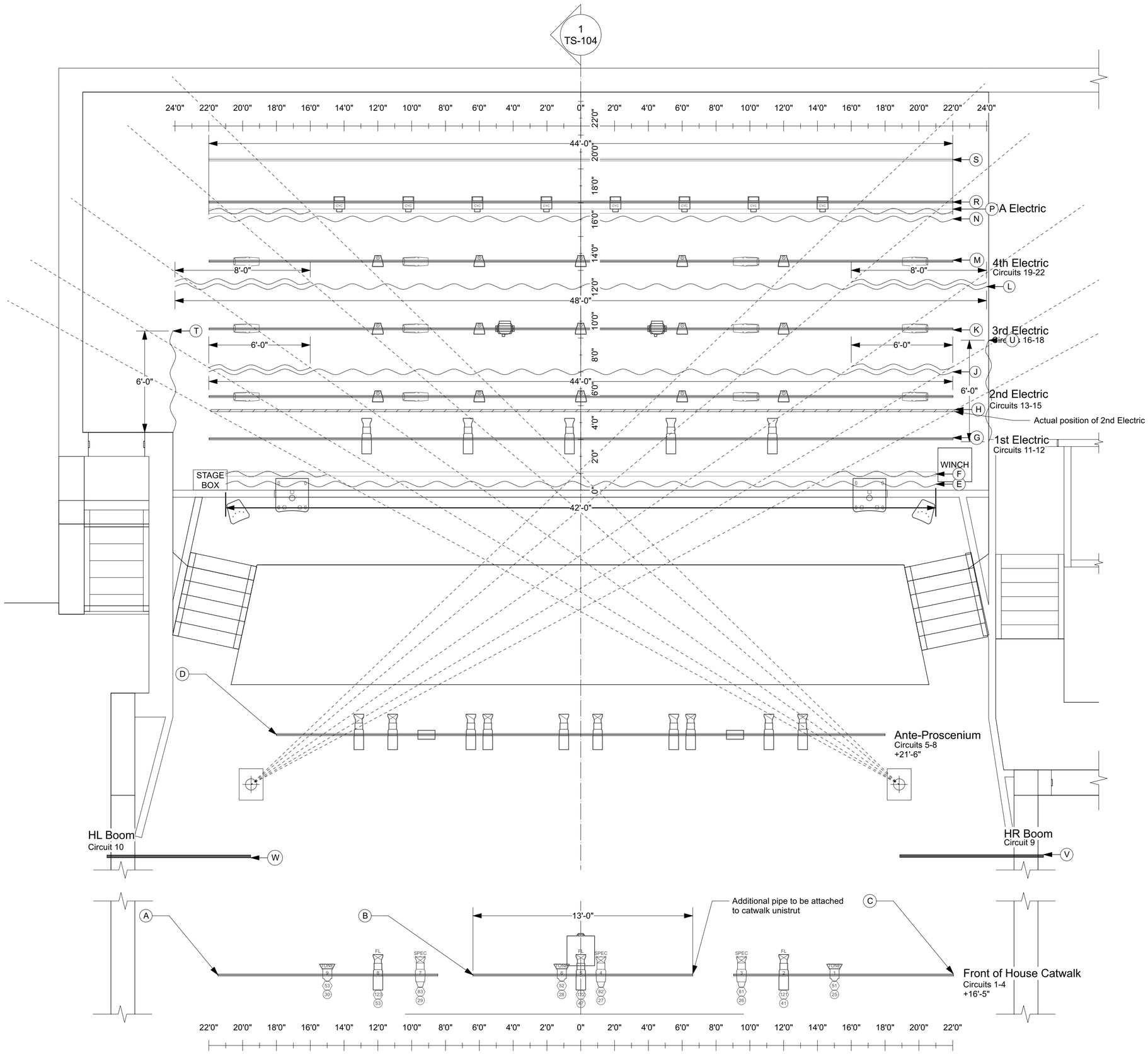
DRAWN: GAA

SHEET:
TS-102



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NOTES:
1) 2nd Electric, FOH Catwalk, HL/HR Booms shown out of place for clarity.
2) All pipes are dead-hung.
3) All hardware and equipment necessary to execute a safe and secure system shall be provided by the the TRDI.
4) All over-stage pipes are shall be trimmed at 20'-0" off deck, except electrics with raceways, which shall remain at 19'3".
5) Addt'l pipe to be added for FOH Center position [TRDI].
6) Traveling curtains shall overlap at center.
7) Border & Legs sets (J & L) can each share their pipe.
8) All curtains shall be Flame Resistant per NFPA 701, with test material and certificate provided. [Δ1]

Rigging Schedule

Weights shown are estimated and include only fixtures/cabling or soft goods. They do not account for support pipe, raceways, track.

FOH Catwalk:		
(A) House Left Pipe w/ raceway	55lbs	[EXISTING]
(B) Center Pipe	55lbs	[NEW]
(C) House Right Pipe w/ raceway	55lbs	[EXISTING]
Ante-Proscenium:		
(D) AP Pipe w/ raceway	230lbs	[EXISTING]
Stage:		
(E) Main Valance (Border)	50lbs	[NEW]
(F) Main Traveler on track	200lbs	[NEW]
(G) 1st Electric w/ raceway	140lbs	[EXISTING]
(H) 2nd Electric w/ raceway	120lbs	[EXISTING]
(J) Downstage Border & Legs	100lbs	[NEW]
(K) 3rd Electric w/ raceway	180lbs	[EXISTING]
(L) Midstage Border & Legs	100lbs	[NEW]
(M) 4th Electric w/ raceway	120lbs	[EXISTING]
(N) Upstage Border	40lbs	[NEW]
(P) Upstage Traveler on track	150lbs	[NEW]
(R) 4-Auxiliary Electric	170lbs	[EXISTING]
(S) Cyclorama	70lbs	[NEW]
(T) Stage Right Masking Tab	15lbs	[NEW]
(U) Stage Left Masking Tab	15lbs	[NEW]
House:		
(V) House Right Boom	0lbs	[EXISTING]
(W) House Left Boom	0lbs	[EXISTING]

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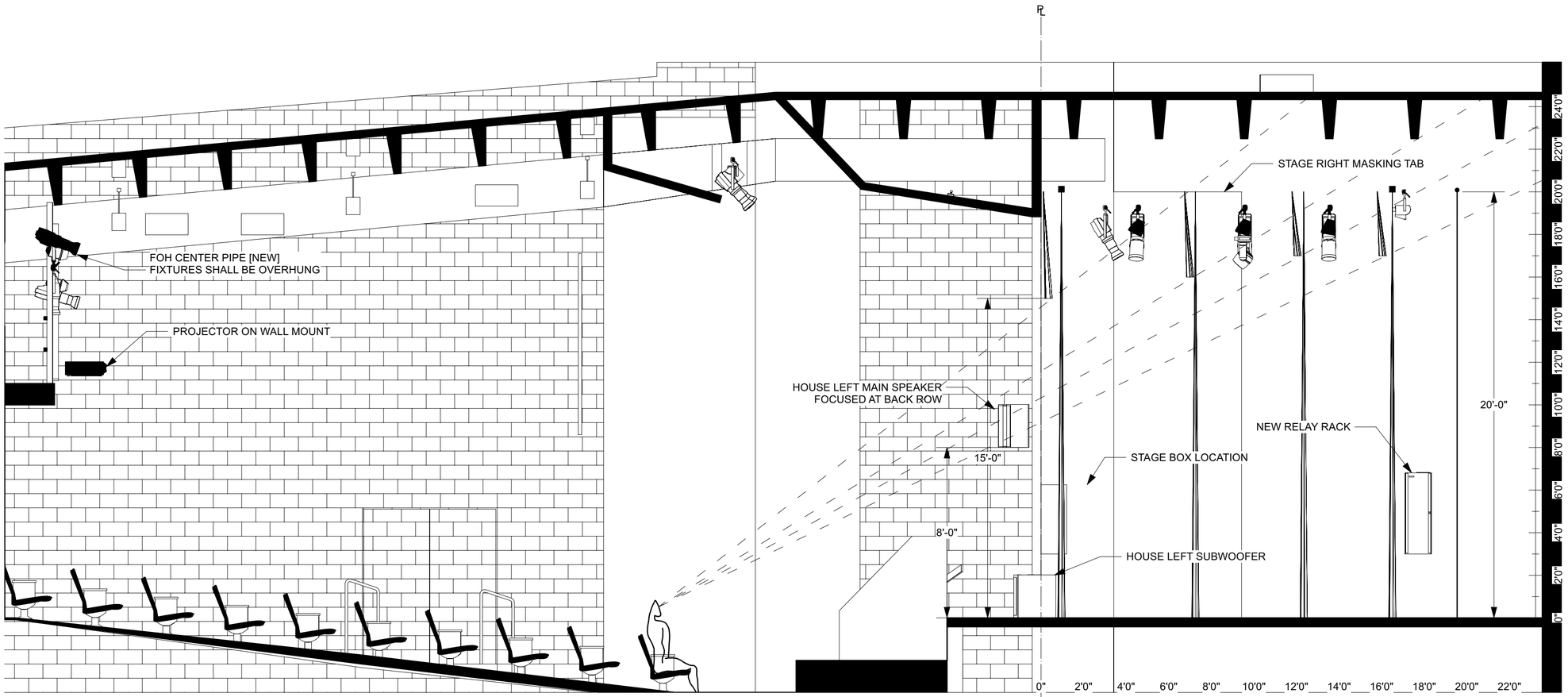
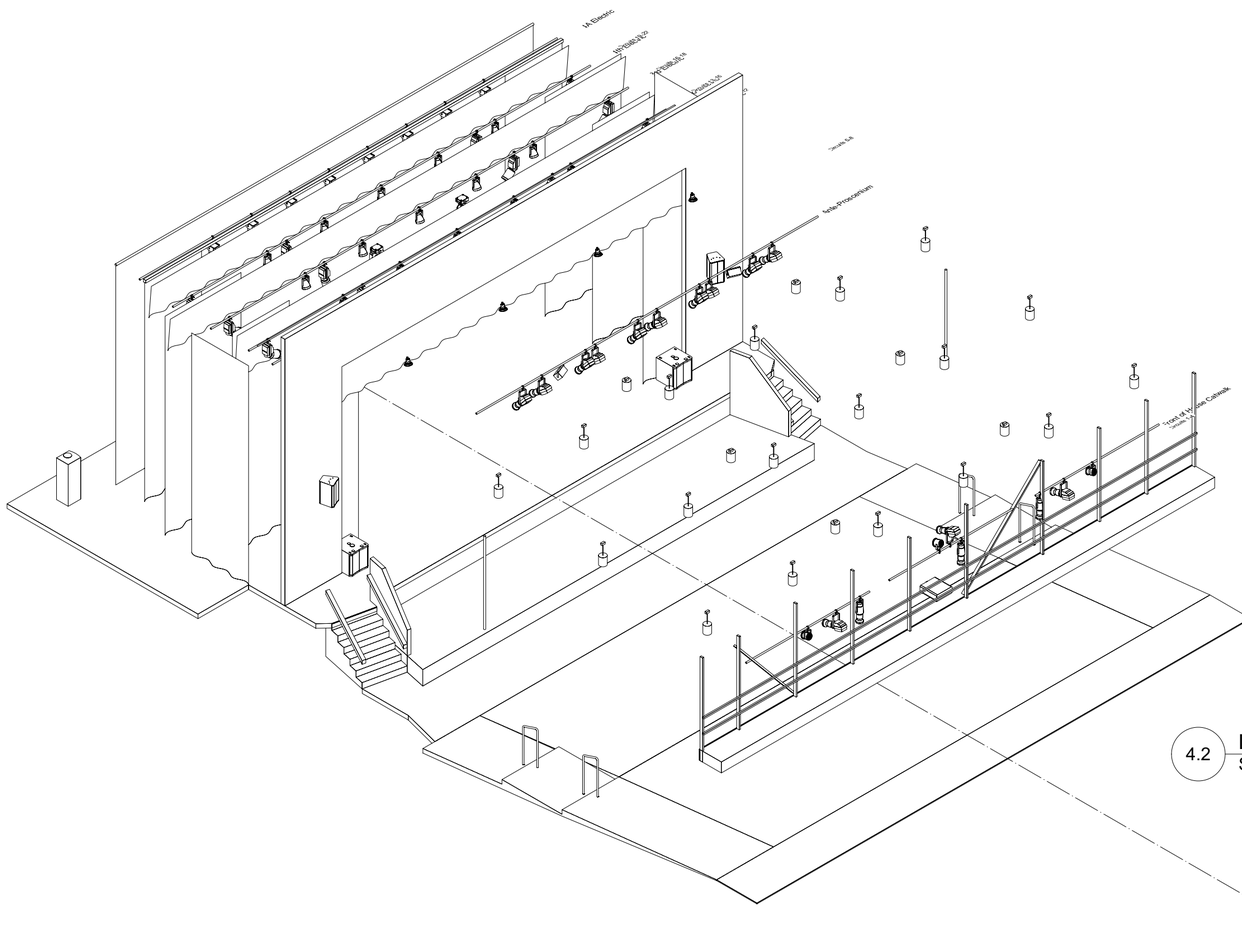
SHEET:
TS-103



4.1 Center Line Section
Scale: 1/4" = 1'-0"



4.2 Left Isometric
Scale" 1/8" = 1'-0"

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ADD ALTERNATES:
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NOTES:
1) 2nd Electric shown in true location.
2) All pipes are dead-hung.
4) All over-stage pipes shall be trimmed at 20'-0" off deck.
5) Additional pipe to be added for FOH Center position [Rigging Scope].
6) All curtains shall be rigged from appropriately sized and rated pipes and tracks.
7) Lights on FOH Center pipe shall be overhung.

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SCALE: MULTIPLE
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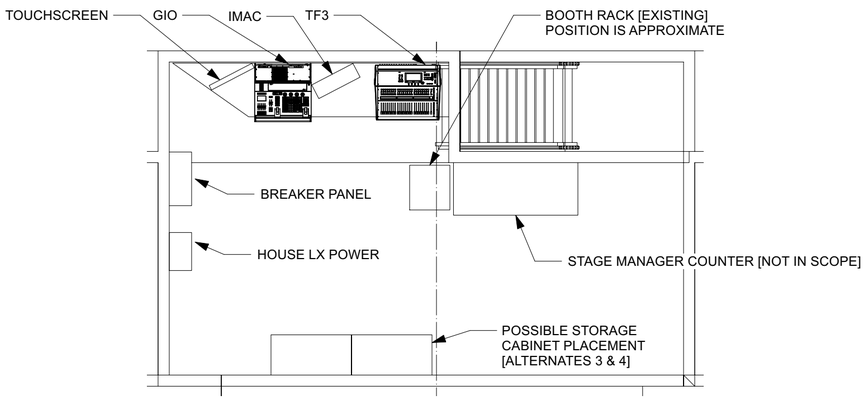
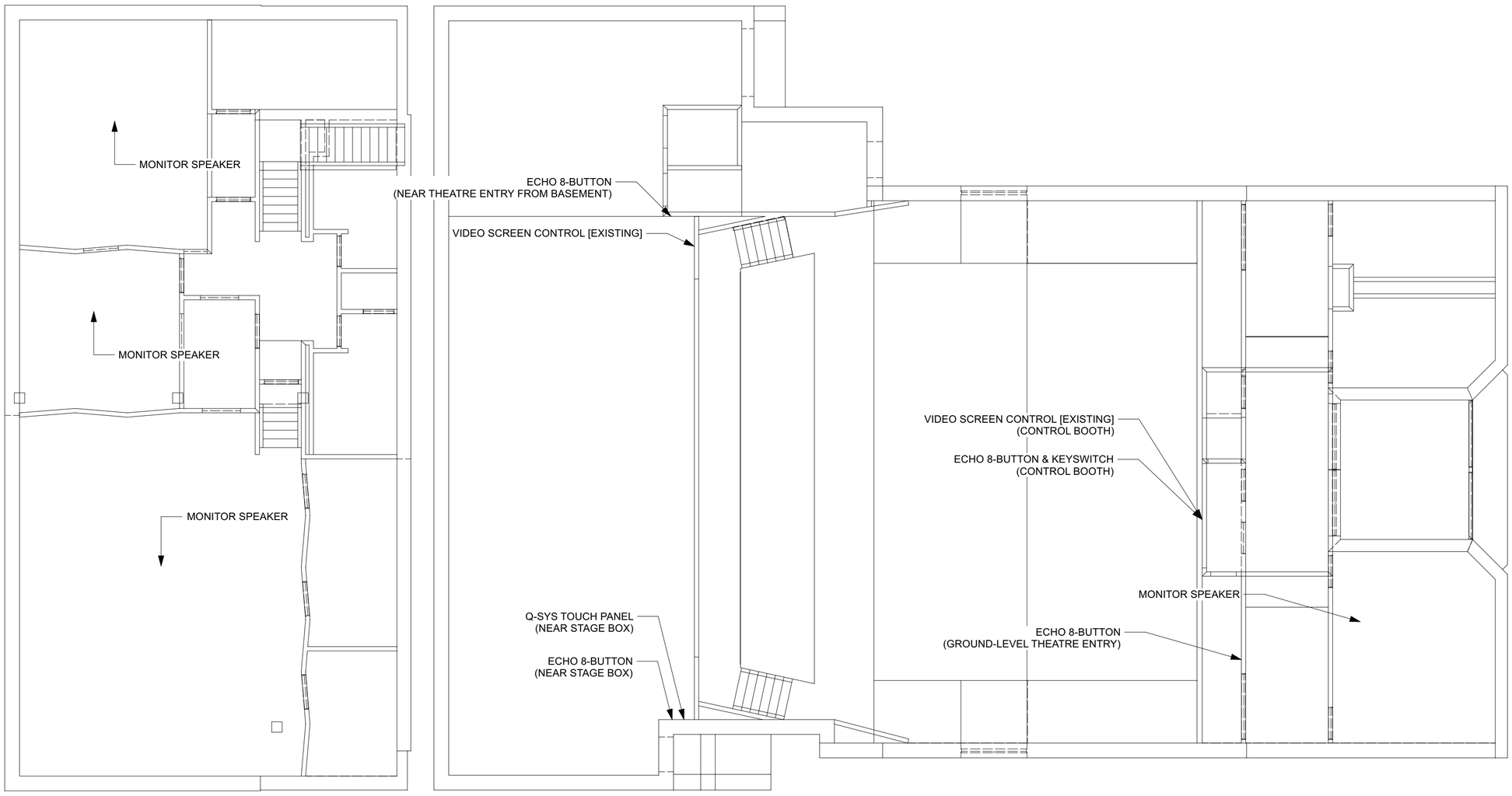
DRAWN: GAA

SHEET:
TS-104



5.1 DETAIL: BOOTH PLAN
Scale: 1/4" = 1'-0"



5.2 CONTROL PANELS & MONITORING SPEAKERS
SCALE: 1/8" = 1'-0"

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NOTES:

1) Monitor speakers may use location, wire, and conduit currently marked as "INTERCOM" where available. Arrows indicate rooms where speakers shall be located, final position is TBD. [ALL MONITORING SYSTEM IS ALTERNATE #6.]
2) iMac, TF3, Gio, Touchscreen are all provided by TSJC.

ADDT'L DETAIL DRAWINGS AVAILABLE UPON REQUEST

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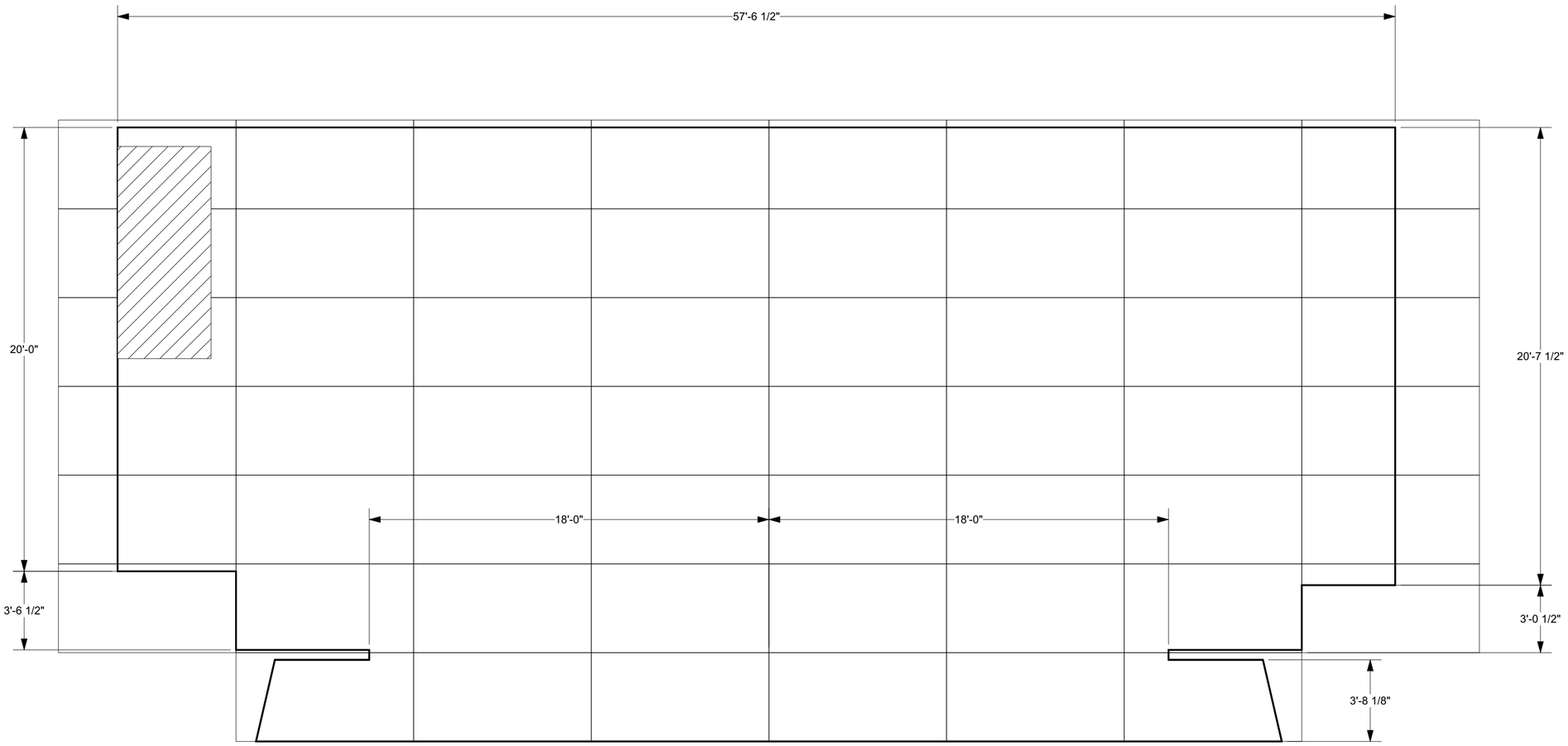
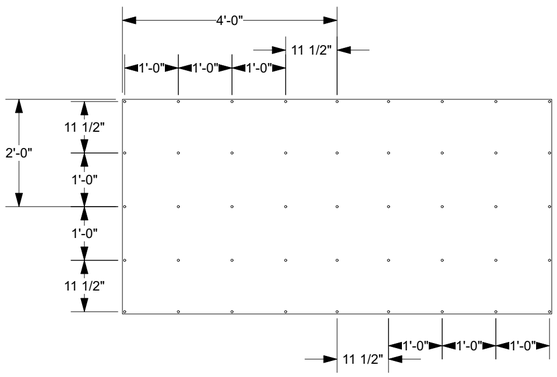
SHEET:
TS-105



6.1 DETAIL: BOARD LAYOUT
Scale" 1/4" = 1'-0"



6.2 DETAIL: SCREW PATTERN
Scale: 1/2" = 1'-0"

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NOTES:
1) Existing stage floor should be sanded down only where required to eliminate large bumps.
2) New floor should consist of 1 layer of 3/16"-thick Masonite-type particle board.
3) Boards should run stage left to stage right.
4) Board seam should run along Center Line (measured in proscenium opening).
5) All measurements and cuts should be made onsite to ensure total accuracy. Provided drawing and measurements are not precise.
6) Screws should be installed in patterns as shown in detail.
7) Screws should be countersunk so that the head is flush with the stage.
8) Once installed, and after most work is completed, floor should be painted with Rosco 5352 paint in at least 2 coats.
9) Once paint has properly cured, 2 coats of Rosco 5580 glaze should be applied and allowed to fully cure.
10) Hatched area to be painted red instead of black and marked "DO NOT BLOCK." Exact area to be determined once electrical infrastructure install is complete.

Approx. board quantity: 56

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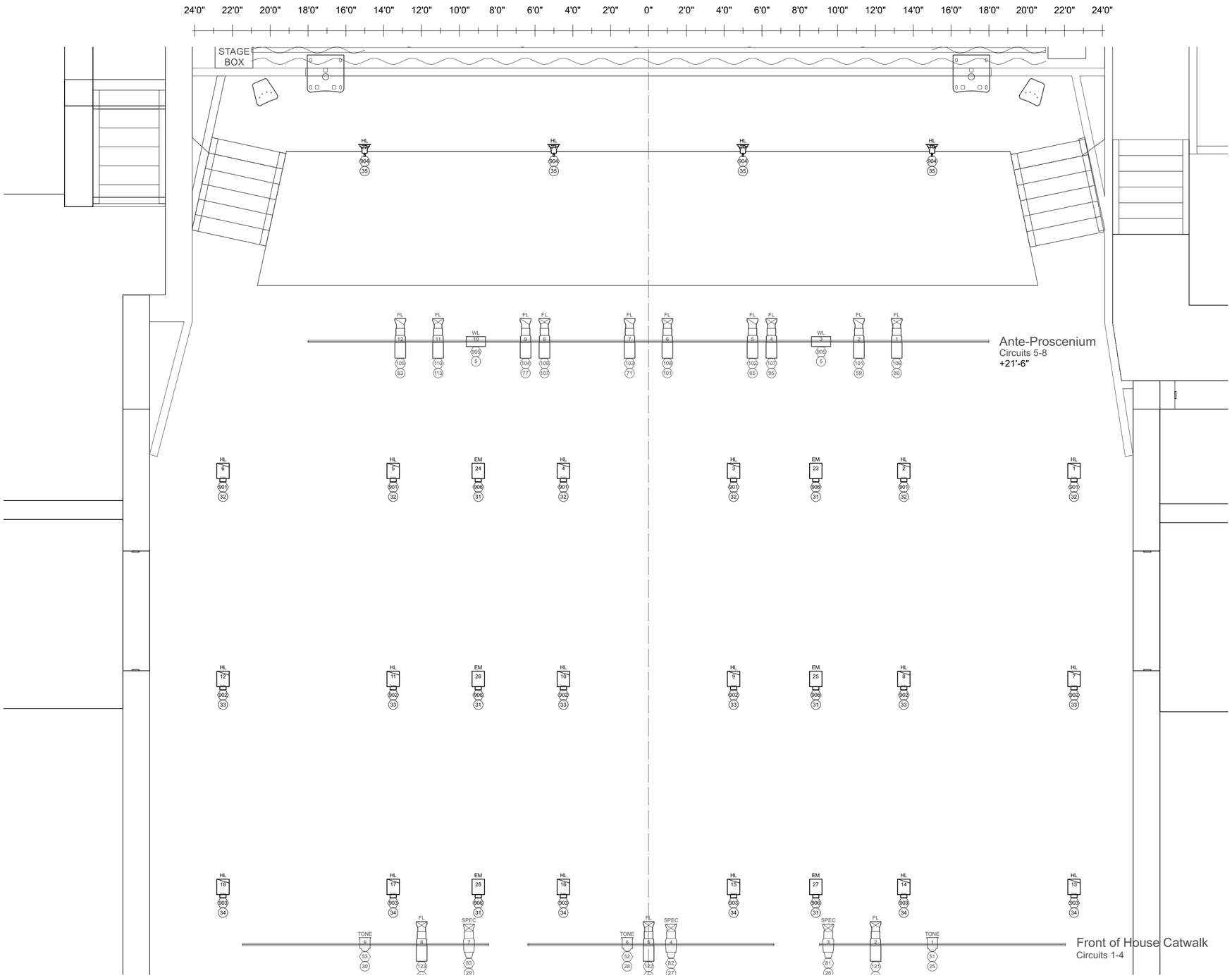
SHEET:
TS-106



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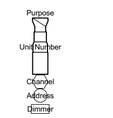
NOTES:
1) All House Lights are on ETC Foundry Dimmers or Relays.
2) For specifications on retrofit units, see project manual.

Symbol Key

Light

	PENDANT LED RETROFIT @ 100w 12.5 lb	18
	RECESSED LED RETROFIT @ 25w 3.08 lb	4
	LTC-3RDW @ 25w 10lbs	6

Typical



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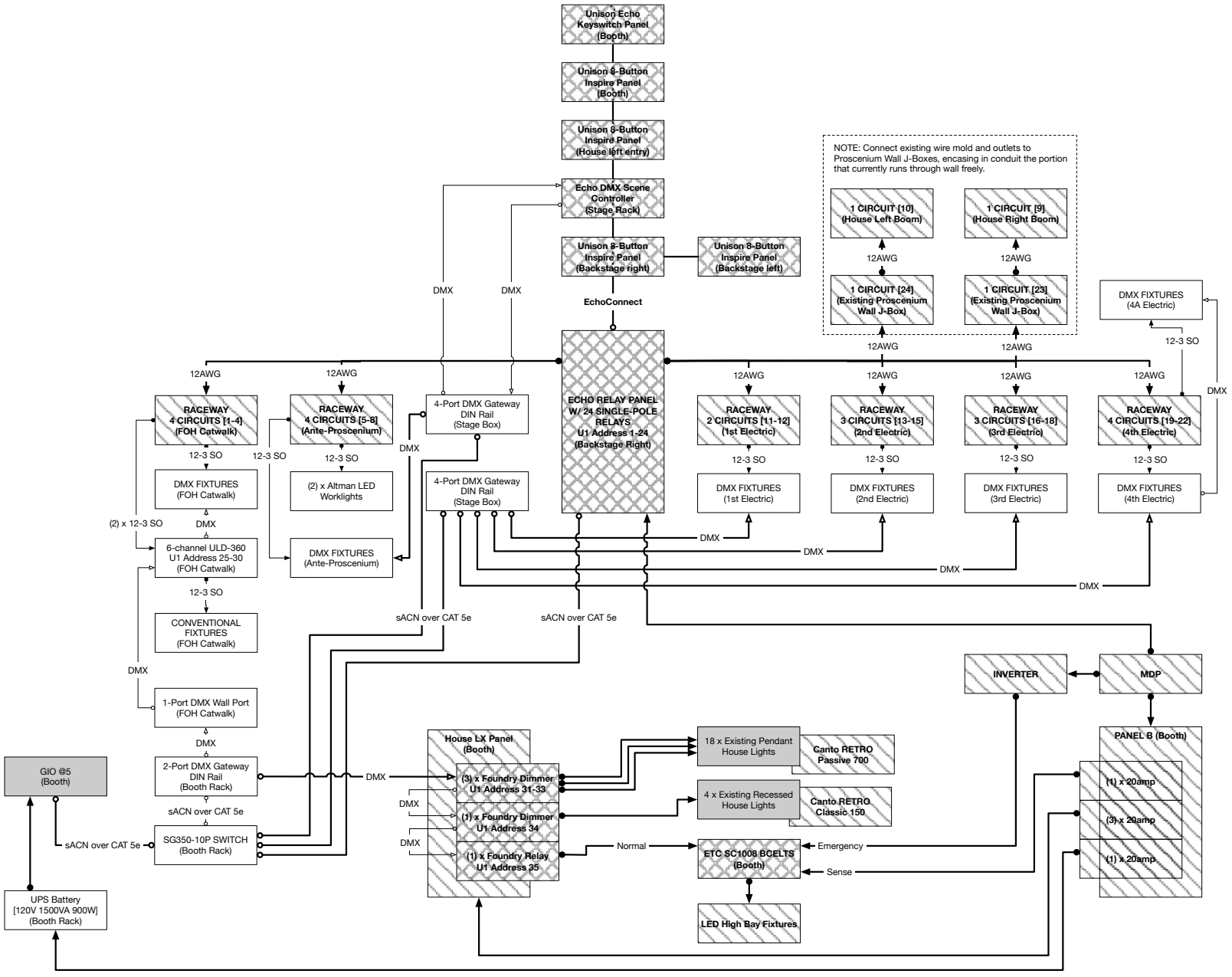
SHEET:
TS-107

MASSARI THEATRICAL & HOUSE LIGHTING SYSTEMS



ALL THEATRICAL LIGHTING, A/V, RIGGING & DRAPERY SYSTEMS ARE BASE BID.

ADD ALTERNATES:
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4. THEATRICAL AUDIO/VIDEO SPARE EQUIPMENT*
*SEE SPEC SECTION 26 55 61

KEY

- Wireless
- Data/Signal Cable
- Power Cable
- Exposed Cable (incl. inside Rack)
- Permanent Install (not necessarily in conduit)

- TSJC Provided (Perkins)
- Lighting Integrator
- A/V Integrator
- General Contractor
- GC Installed, LI Furnished

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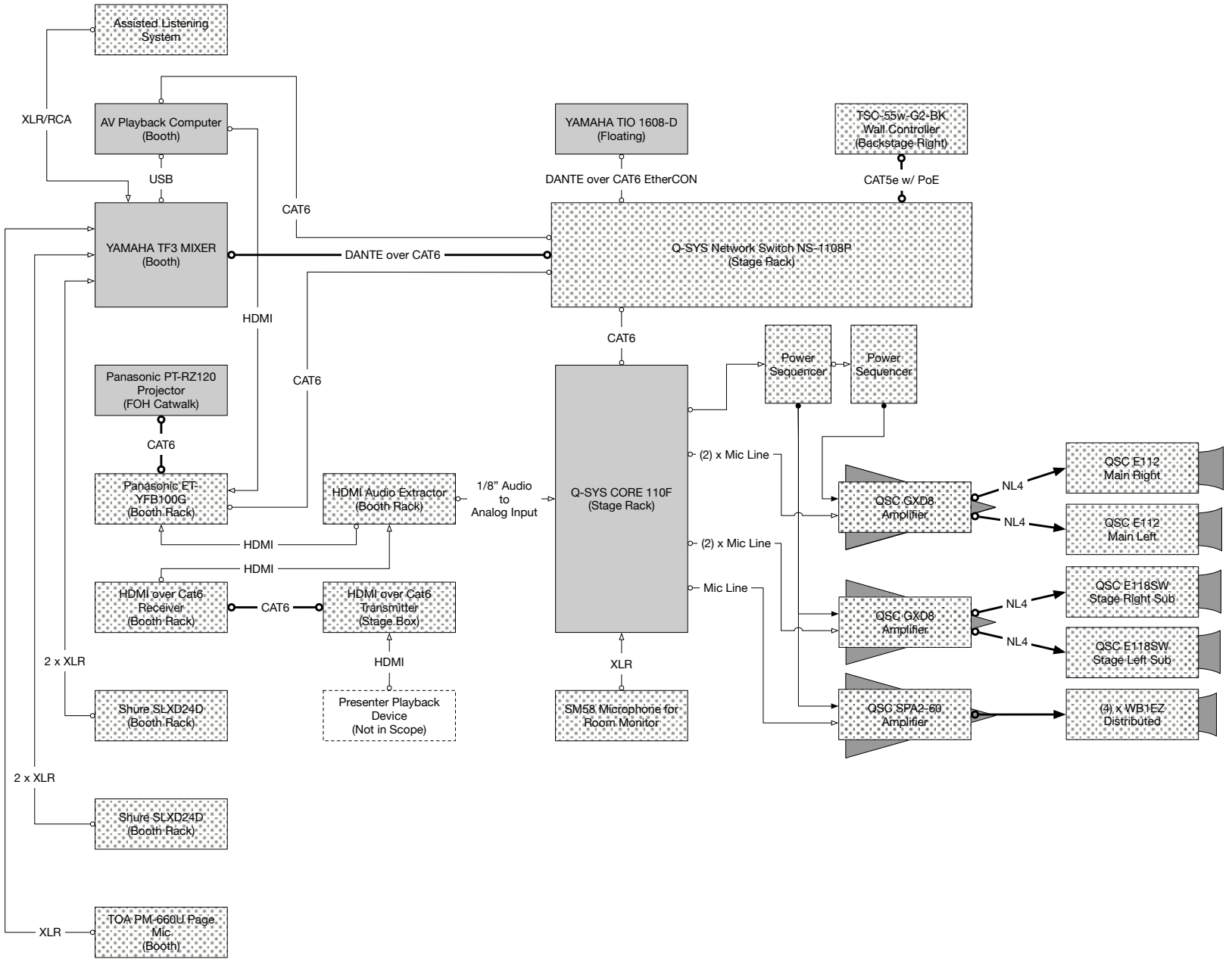
MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-108

MASSARI AUDIO/VIDEO SYSTEM



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*SEE SPEC SECTION 26 55 61

KEY

- Wireless
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TSJC Provided (Perkins)

Lighting Integrator

A/V Integrator

General Contractor

GC Installed, LI Furnished

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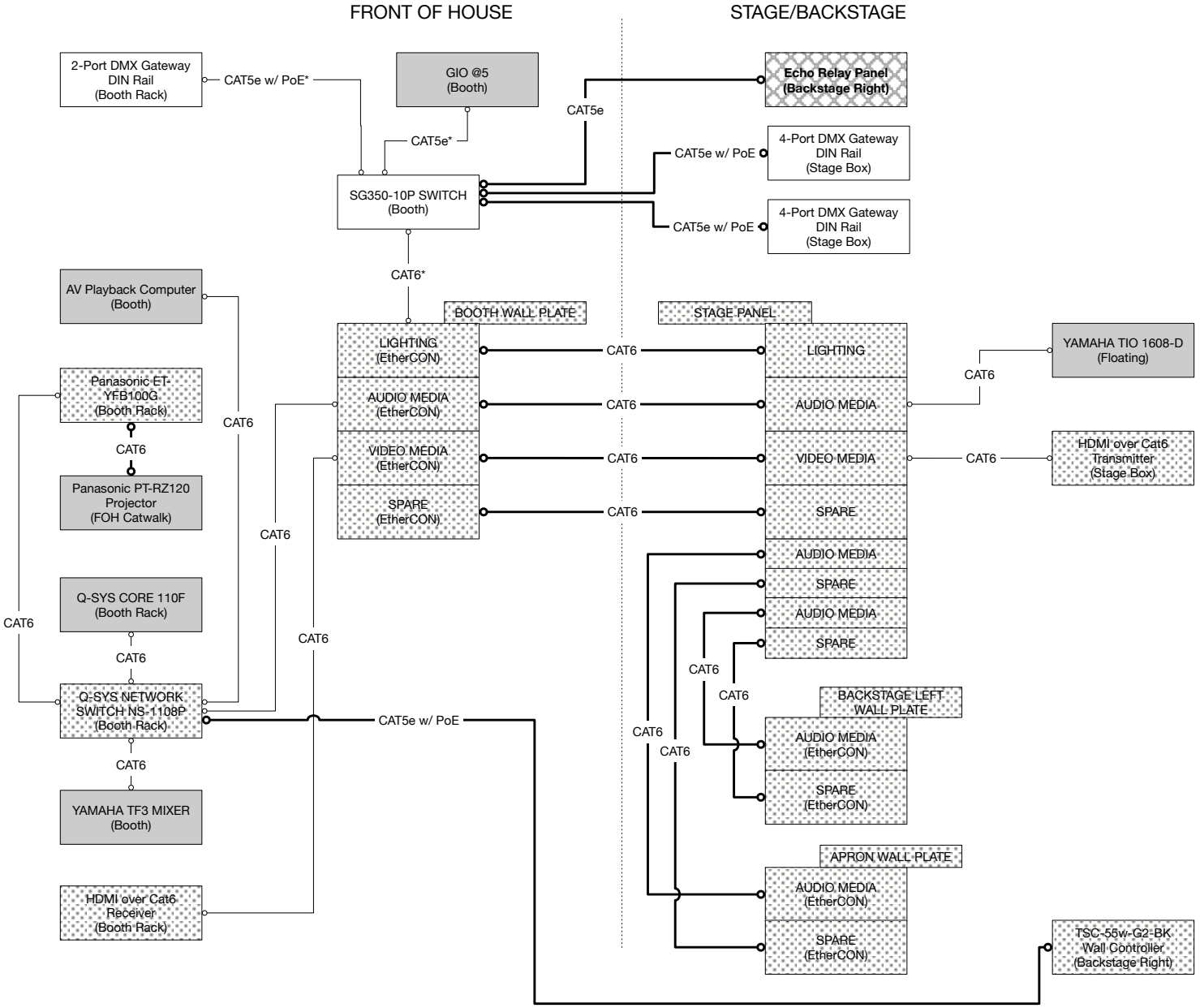
MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-109

MASSARI NETWORK INFRASTRUCTURE



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*SEE SPEC SECTION 26 55 61

KEY

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- Power Cable
- Exposed Cable (incl. inside Rack)
- Permanent Install (not necessarily in conduit)

TSJC Provided (Perkins)

Lighting Integrator

A/V Integrator

General Contractor

GC Installed, LI Furnished

*Note: TAVI is responsible for all network cable except where indicated by an asterisk. These cables are the scope of the TLI.

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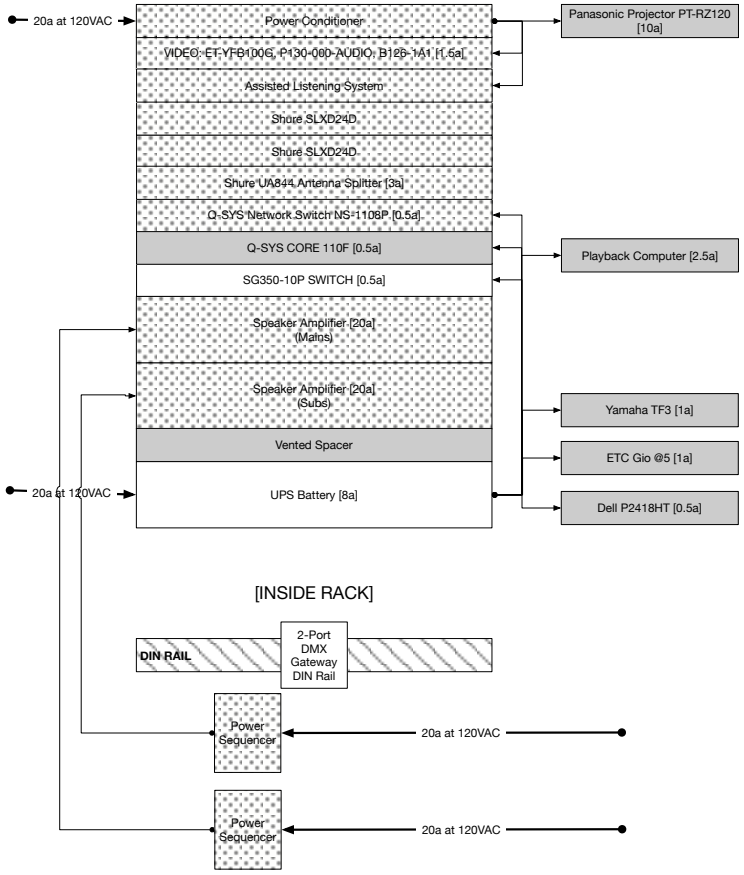
MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-110

MASSARI EQUIPMENT RACKS

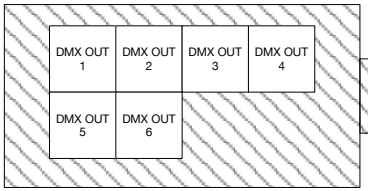
BOOTH RACK



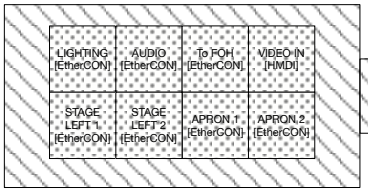
[INSIDE RACK]

STAGE BOX

[4-GANG BOX 1]

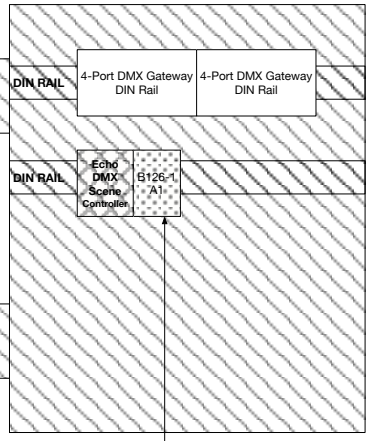


[4-GANG BOX 2]

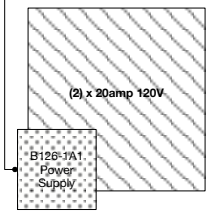


NOTE: All connections on the 4-Gang boxes shall be D-Series Panel-Mount connectors.

[PROJECT BOX]



[2-GANG BOX]



DISCLAIMER: The drawings and designs set forth have been drafted under the supervision of qualified structural and electrical engineers. All calculations are the responsibility of Schendt Engineering Corp. The designer will gladly offer suggestions and consultation on all aspects, and will be willing to make adjustments on the basis of safety whenever those more qualified or liable make such requests.

ALL THEATRICAL LIGHTING, A/V, RIGGING & DRAPERY SYSTEMS ARE BASE BID.

ADD ALTERNATES:
1. ADDT'L INTERIOR LIGHTING (SEE E-101 & E-102)
2. STAGE FLOOR RENOVATION (TS-106)
3. THEATRICAL LIGHTING SPARE EQUIPMENT*
4. THEATRICAL AUDIO/VIDEO SPARE EQUIPMENT*
*SEE SPEC SECTION 26 55 61

KEY

- Wireless
- Data/Signal Cable
- Power Cable
- Exposed Cable (incl. inside Rack)
- Permanent Install (not necessarily in conduit)

TSJC Provided (Perkins)

Lighting Integrator

A/V Integrator

General Contractor

GC Installed, LI Furnished

Austin Allen
g.austinallen@me.com
720.570.6049

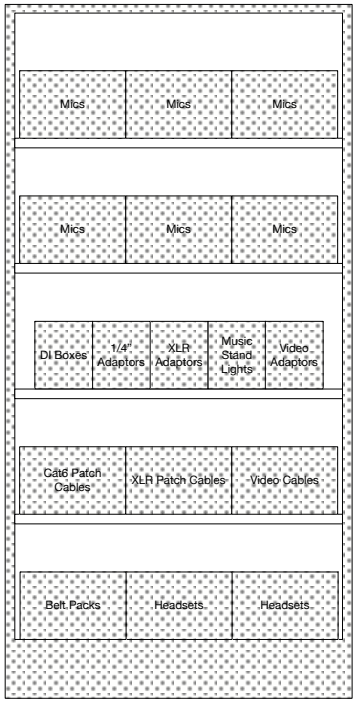
Proj: MASSARI RENOVATION
Org: TRINIDAD STATE JUNIOR COLLEGE
Des: G. AUSTIN ALLEN

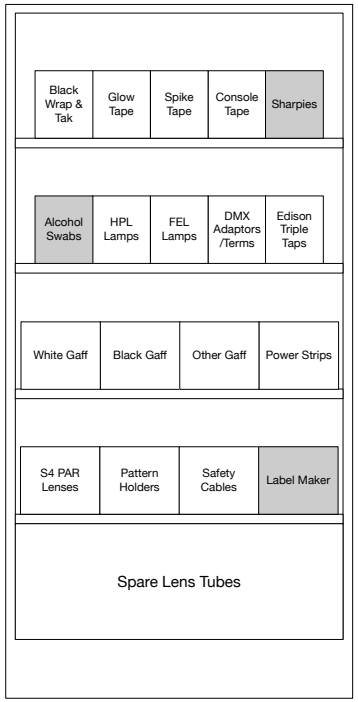
REVISION 14
16 JUNE 2021
DRAWN: GAA

MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-111

MASSARI STORAGE SOLUTIONS

METAL STORAGE CABINETS

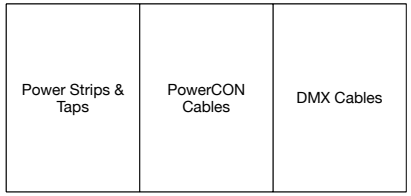


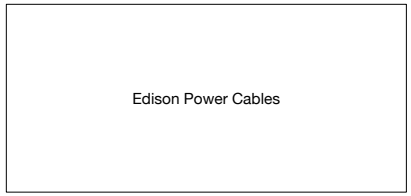


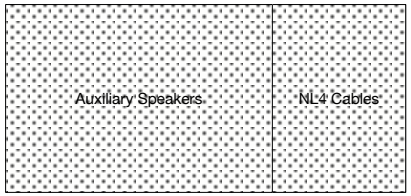
LOCATION TBD

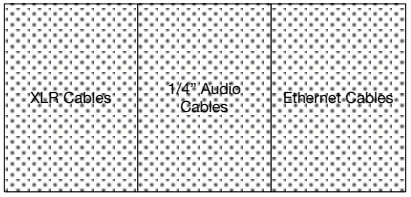
ALL BINS PROVIDED BY INTEGRATORS. “TSJC PROVIDED” REFERS TO CONTENTS OF BIN.

ROAD CASES









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16 JUNE 2021
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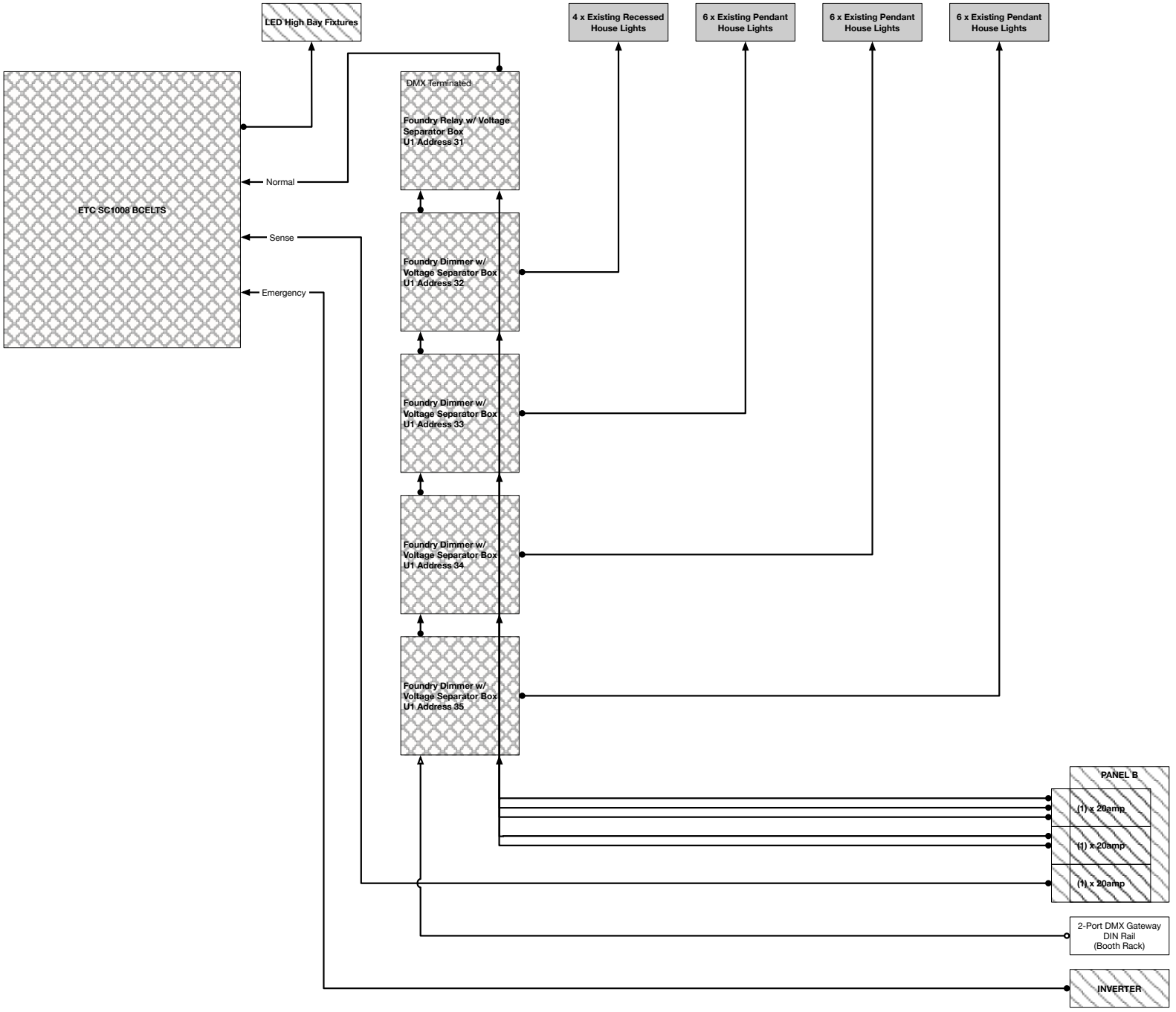
MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-112

MASSARI HOUSE LIGHTING PANEL



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Lighting Integrator

A/V Integrator

General Contractor

GC Installed, LI Furnished

NOTE: Foundry controllers mounted in ETC E4VBB, connected with two pieces 3/4" conduit each, one for 120VAC power from Panel B, one for low voltage (DMX) control wire from DMX Gateway in booth rack.

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MASSARI THEATRE SYSTEMS DESIGN - DRAWING PACKAGE - TS-113