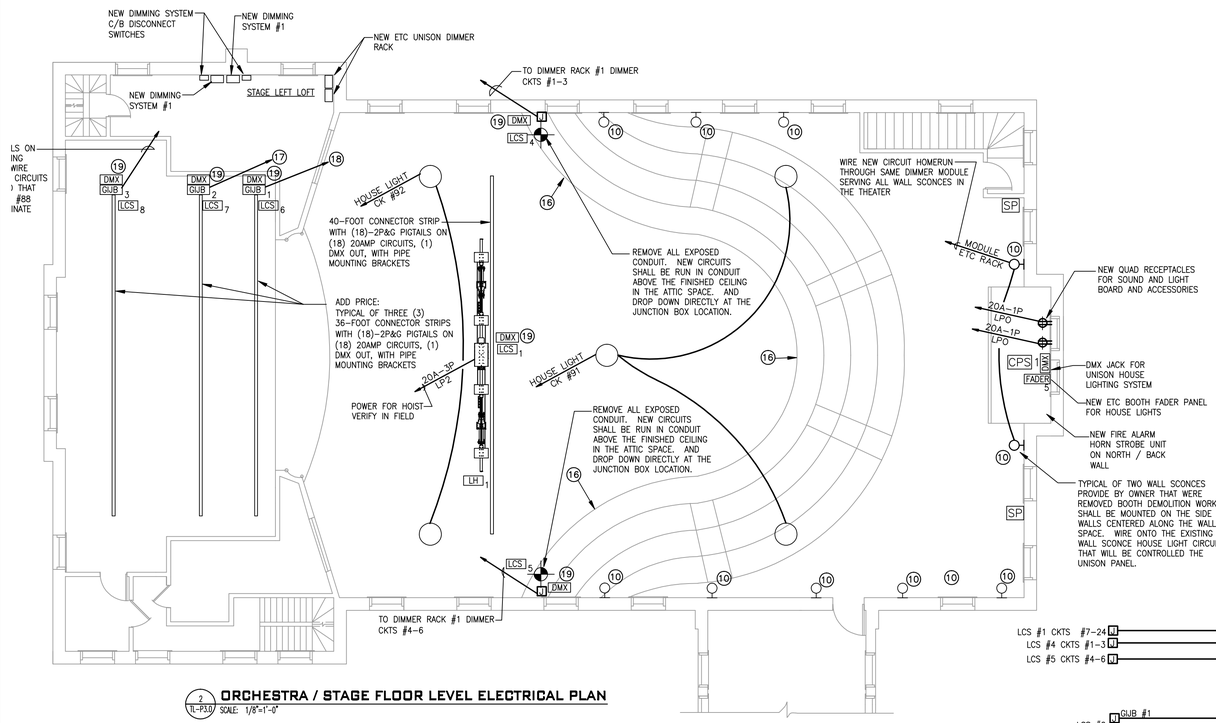


2 TL-P3.0 **ORCHESTRA / STAGE FLOOR LEVEL ELECTRICAL PLAN**
SCALE: 1/8"=1'-0"

NOTES FOR DRAWING TL-3.0

1. EXISTING PANEL 'LP1' TO BE REMAIN. PANEL 'LP1' IS A TOP FEED PANEL THAT IS BOTTOM FED FROM A CONDUIT AND FEEDER RUN UP FROM THE STORAGE AREA BELOW.
2. EXISTING PANEL 'LP2' IS TO REMAIN. PANEL IS A TOP FEED PANEL THAT IS BOTTOM FED FROM A CONDUIT AND FEEDER RUN UP FROM THE STORAGE AREA BELOW.
3. FEEDERS FOR THE EXISTING DISCONNECT SERVING THE EXISTING DIMMER RACK ARE TAPPED AT PANEL 'LP1'. DISCONNECT THE FEEDERS FROM THE LOAD SIDE OF THE DISCONNECT AND EXTEND 2" EMT WITH 4 #3/0 AND 1 #6 GND UP TO THE NEW DIMMER RACK TO BE INSTALLED ON THE STAGE LEFT LOFT WALL.
4. EXISTING DIMMER RACK TO BE DISCONNECTED AND TURNED OVER TO OWNER.
5. EXISTING STAGE LEFT BALCONY CIRCUIT SPLICE BOX WITH (12) SJO CORDS AND PLUGS FOR STAGE LEFT DIMMING CIRCUITS SPLICED AT THE BOX. CORDS TO BE DISCONNECTED AND REMOVED. ALL WIRING FOR THE THEATRICAL LIGHTS WILL BE NEW AND ORIGINATE FROM THE NEW DIMMING RACK AT THE STAGE LEFT LOFT.
6. SPARE
7. EXISTING STAGE RIGHT BALCONY CIRCUIT SPLICE BOX WITH (12) SJO CORDS AND PLUGS FOR STAGE LEFT DIMMING CIRCUITS SPLICED AT THE BOX. CORDS TO BE DISCONNECTED AND REMOVED. ALL WIRING FOR THE THEATRICAL LIGHTS WILL BE NEW AND ORIGINATE FROM THE NEW DIMMING RACK AT THE STAGE LEFT LOFT.
8. NEW DMX512 PLUG-IN JACK FURNISHED WITH THE HOUSE LIGHT DIMMING SYSTEM AND INSTALLED AND WIRED BY THE CONTRACTOR.
9. EXISTING WORK RECEPTACLE FED FROM PANEL 'LP2' TO REMAIN INTACT.
10. WIRE ALL WALL SCONCES TO HOUSE DIMMING CIRCUIT #90 IN DIMMING RACK #2
9. ETC DMX CONTROL SYSTEM CONSISTING OF:
   - EQUIPMENT RACK WALL MONT 12 SPACE
   - RACK MOUNT POWER CONDITIONER WITH WORK LIGHT
   - CUSTOM DMXIN1/DMX1N2 RACK MOUNT CONTROL PLUG IN STATION
   - RACK MOUNT 3 SPACE STORAGE DRAWER WITH LOCK
   - PATHWAY #4809 eDINDMX INSTALLATION REPEATER 12-WAY
   - ECPB DMXIN1/DMXIN2 CONTROL INPUT STATION
   - eDIN 4814 DMX oPTO-PLITTER, RDM-ENABLED, 8-OUTPUT
10. WIRE ALL WALL SCONCES ON HOUSE LIGHT CIRCUIT #91 TO DIMMER RACK #2
13. (4) 1" EMT W/ CONDUCTORS AS NOTED ON THE RESPECTIVE SCHEDULES ABOVE .
14. EXISTING 2" EMT WITH 4 #3 /0 COPPER FEEDER (VERIFY IN FIELD) AND 1 #4 GND SERVING PANEL 'LP1' TO REMAIN INTACT.
15. EXISTING 2" EMT WITH 4 #3 /0 COPPER FEEDER (VERIFY IN FIELD) AND 1 #4 GND SERVING PANEL 'LP2' TO REMAIN INTACT.
16. WIRE FESTOON FRONT OF BALCONY LIGHTS TO DIMMER CIRCUIT #89.
17. WIRE ALL 18 PIGTAILS ON 18 DEDICATED DIMMING CIRCUITS BACK TO WIRE TROUGH. COMBINE CIRCUITS IN WIRE TROUGH SO THAT CIRCUITS #67 THRU #80 ARE USED. COORDINATE WITH THEATER.
18. WIRE ALL 18 PIGTAILS ON 18 DEDICATED DIMMING CIRCUITS BACK TO WIRE TROUGH. COMBINE CIRCUITS IN WIRE TROUGH SO THAT CIRCUITS #52 THRU #67 ARE USED. COORDINATE WITH THEATER.
19. 3 /4" CONDUIT WITH DMX CABLE TO DMX CONTROL PANEL WITH DEDICATED CABLE FOR EACH DMX LOCATION. CABLES MAY BE COMBINED IN A COMMON CONDUIT AS CONVENIENT.

CONDUCTOR / CONDUIT SIZING TABLE

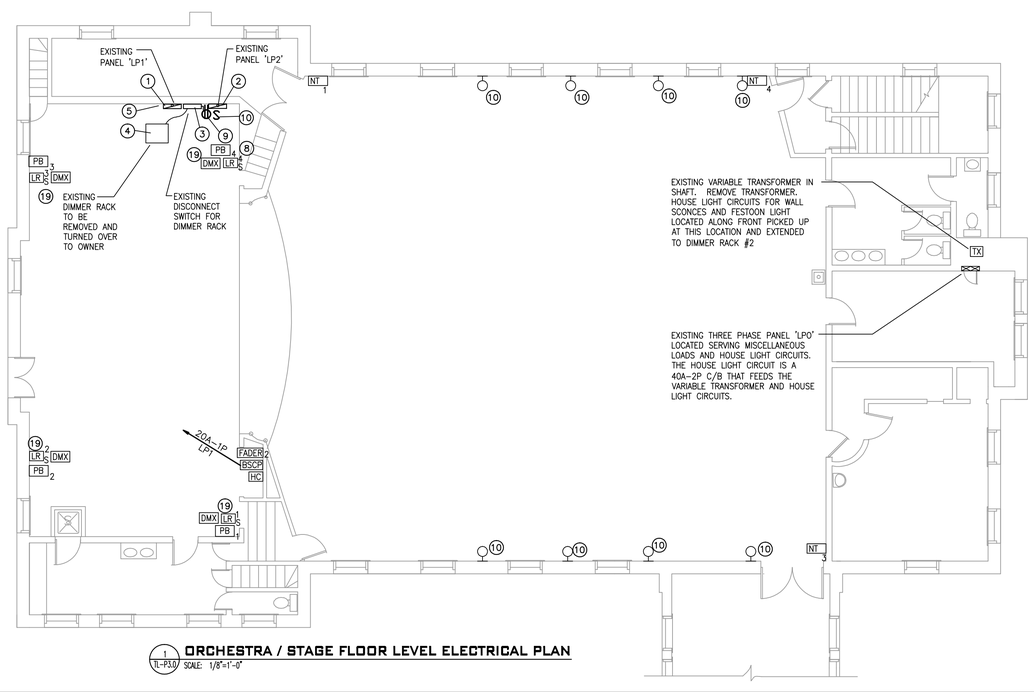
CONDUIT SERVING	CONDUIT SIZE	CONDUCTOR SIZE IN CONDUIT	CONDUCTOR AMPACITY DERATING FACTOR	CONDUCTOR AMPACITY
GUB #1 (LCS #6)	(2) 1-1/2"	#10 THHN	50% EACH CONDUIT	15.75A
GUB #2 (LCS #7)	(2) 1-1/2"	#10 THHN	50% EACH CONDUIT	15.75A
GUB #3 (LCS #8)	(2) 1-1/2"	#10 THHN	50% EACH CONDUIT	15.75A
LCS #1	(2) 1-1/2"	#10 THHN	45%	15.75A
LCS #4	(1) 1-1/2"	#10 THHN	50%	17.5A
LCS #5	(1) 1-1/2"	#10 THHN	50%	17.5A
PB#1	(1) 1"	#12 THHN	70%	17.5A
PB#2	(1) 1"	#12 THHN	70%	17.5A
PB#3	(1) 1"	#12 THHN	70%	17.5A
PB#4	(1) 1"	#12 THHN	70%	17.5A

DEVICE LEGEND – STAGE LIGHTING
THOMASTON OPERA HOUSE

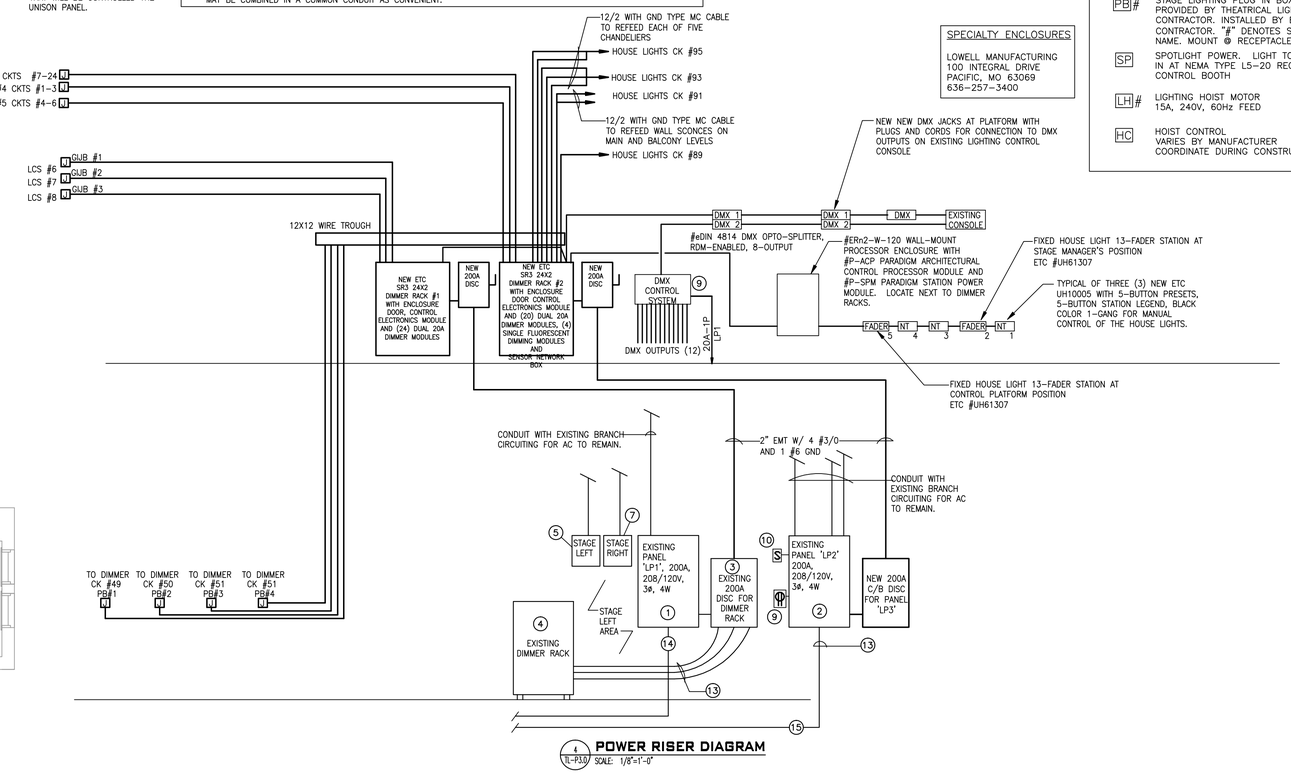
- AR1 — AUXILIARY RACK 1 – LIGHTING PROVIDED BY STAGE LIGHTING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT IN DIMMER ROOM WITH TOP OF ENCLOSURE @ 60"AFF.
- BSCP — BACK STAGE CONTROL PANEL PROVIDED BY THEATRICAL LIGHTING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT TOP OF ENCLOSURE @ + 60" AFF.
- CPS 1 — CONSOLE PLUGGING STATION FLUSH MOUNT 3 GANG BOX. MOUNT @ RECEPTACLE HEIGHT BELOW COUNTER IN CONTROL LOFT AS SHOWN.
- TPS 1 — REHEARSAL PLUGGING STATION FLUSH MOUNT 3 GANG BOX. MOUNT IN AUD FLOOR (LOCATION TBD) FOR TEMP LOCATION OF LIGHTING CONTROL. (NOT USED)
- FB# — 4 CK FLOOR BOX – LIGHTING PROVIDED BY THEATRICAL LIGHTING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. INSTALL AS SHOWN WITH COVER FLUSH TO FINISHED FLOOR. "#" DENOTES SPECIFIC NAME. (FUTURE)
- GIJB# — GRID IRON JUNCTION BOX PROVIDED BY THEATRICAL LIGHTING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT ON STAGE LEFT GRIDIRON."#" DENOTES SPECIFIC NAME.
- LCS# — STAGE LIGHTING CIRCUIT STRIP. PROVIDED BY THEATRICAL LIGHTING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. "#" DENOTES SPECIFIC NAME. LOCATE LCS# 6–8 ON STAGE RIGGING SYSTEM PIPES. SEE RISER PLAN AND CIRCUIT DISTRIBUTION FOR DETAIL.
- LR 1/S — LIGHTING REMOTE (DISTRIBUTED DMX) ENCLOSURES VARY BY LOCATION. FACTORY INSTALLED ON STAGE LIGHTING CIRCUIT STRIPS (LCS). ALL OTHERS IN GANG SURFACE MOUNT ENCLOSURE BY LOWELL MANUFACTURING COMPANY, MODEL NUMBER P1X-1. MOUNT @ RECEPTACLE HEIGHT.
- PB# — STAGE LIGHTING PLUG IN BOX PROVIDED BY THEATRICAL LIGHTING CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. "#" DENOTES SPECIFIC NAME. MOUNT @ RECEPTACLE HEIGHT.
- SP — SPOTLIGHT POWER. LIGHT TO BE PLUGGED IN AT NEMA TYPE L5-20 RECEPTACLE AT CONTROL BOOTH
- LH# — LIGHTING HOIST MOTOR 15A, 240V, 60Hz FEED
- HC — HOIST CONTROL VARIES BY MANUFACTURER COORDINATE DURING CONSTRUCTION PHASE

SPECIALTY ENCLOSURES

LOWELL MANUFACTURING
100 INTEGRAL DRIVE
PACIFIC, MO 63069
636-257-3400



1 TL-P3.0 **ORCHESTRA / STAGE FLOOR LEVEL ELECTRICAL PLAN**
SCALE: 1/8"=1'-0"



4 TL-P3.0 **POWER RISER DIAGRAM**
SCALE: 1/8"=1'-0"

FACILITY SERVICES & ENGINEERING, INC.
42 RIDGEBROOK DRIVE
COVENTRY, CT 06238-1343
TEL. (860) 742-4170
ELECTRICAL ENGINEER

REVISIONS/ISSUES

NUMBER	DATE	DRAWN	DESCRIPTION

PROJECT AND LOCATION:
THOMASTON OPERA HOUSE
THOMASTON, CT

ARCHITECT: THOMPSON ARCHITECTS
24D MAIN STREET, BRISTOL VERMONT
PH. 802.453.5121

SCHEU CONSULTING SERVICES, INC.
FULL SERVICE THEATRE CONSULTING
310 FALLS BOULEVARD ◆ CHITTENANGO, NY 13037
TEL: 315.510-3368 ◆ FAX: 315.366.3939
WWW.SCHEUCONSULTING.COM

DRAWING TITLE:
ELECTRICAL INFRASTRUCTURE REVISIONS

SCALE: AS NOTED
DRAWN: JSS
DATE: 2-13-13
CHECKED: JSS
DATE: 2-13-13
FILE NAME
SCS PROJECT NO.
DRAWING NO.
TL-P3.0