

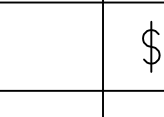
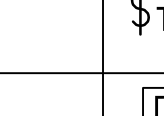
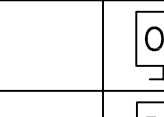
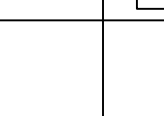
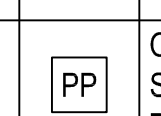

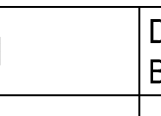
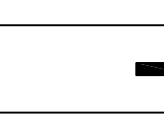
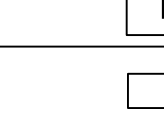
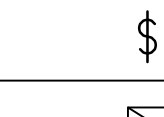
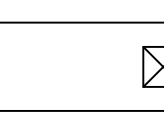

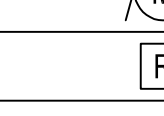

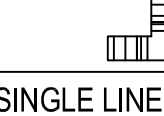
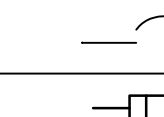
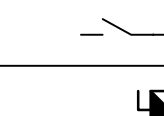
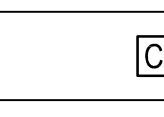
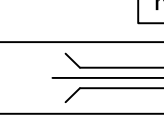
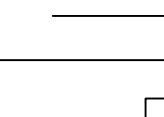
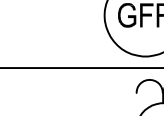


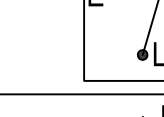
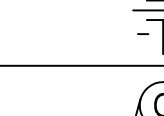
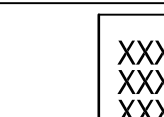
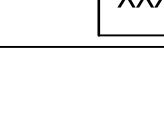
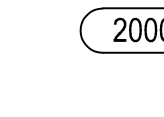

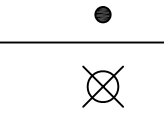
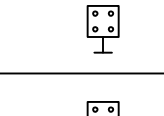
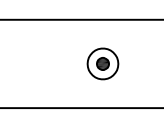
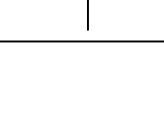







ABBREVIATIONS

-A-		FLR	FLOOR
ADDL	ADDITIONAL	FLUOR	FLUORESCENT
AFF	ABOVE FINISHED FLOOR	FR	FIRE RATING
AMP	AMPERE	FREQ	FREQUENCY
ANN	ANNUNCIATOR	FT	FOOT / FEET
APPD	APPROVED	FU	FUSE
APPX	APPENDIX	FU SW	FUSED SWITCH
ARCH	ARCHITECT	FUT	FUTURE
ATCH	ATTACHMENT	-G-	
ATS	AUTOMATIC TRANSFER SWITCH	G	GROUND
AUTO	AUTOMATIC	GC	GENERAL CONTRACTOR
AUX	AUXILIARY	GEN	GENERATOR
AV	AUDIO VISUAL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AVG	AVERAGE	-H-	
AWG	AMERICAN WIRE GAUGE	HP	HORSEPOWER
-B-		HZ	HERTZ
BAS	BUILDING AUTOMATION SYSTEM	-J-	
BAT	BATTERY	JB	JUNCTION BOX
BFF	BELOW FINISH FLOOR	-L-	
BKGD	BACKGROUND	LTG	LIGHTING
BLDG	BUILDING	LV	LOW VOLTAGE
BLW	BELOW	-M-	
B.O.L	BEGINNING OF LIFE	MAX	MAXIMUM
BOT	BOTTOM	MCB	MAIN CIRCUIT BREAKER
BRKR	BREAKER	MCC	MOTOR CONTROL CENTER
BSMT	BASEMENT	MECH	MECHANICAL
BSTR	BOOSTER	MIN	MINIMUM
BTWN	BETWEEN	MV	MEDIUM VOLTAGE
-C-		-N-	
CAB	CABINET	NC	NORMALLY CLOSED
CAP	CAPACITOR	NEUT	NEUTRAL
CB	CIRCUIT BREAKER	NO	NORMALLY OPEN, NUMBER
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CD	CONSTRUCTION DOCUMENT	-P-	
CERT	CERTIFY	P	POLE
CH	CHILLER	PB	PULL BOX
CHK	CHECK	PH	PHASE
CKT	CIRCUIT	PNL	PANEL
CL	CENTER LINE / CLOSE	PWR	POWER
CLG	CEILING	-R-	
CONC	CONCRETE	(R)	REMOVE
CONN	CONNECT	REC	RECESSED
COOR	COORDINATE	RECPT	RECEPTACLE
CORR	CORRIDOR	REQD	REQUIRED
CP	CONTROL PANEL	RM	ROOM
CR	CONTROL RELAY	-S-	
CS	CONTROL SWITCH	SCHED	SCHEDULE
CTRL	CONTROL	SD	SMOKE DETECTOR
CTV	CABLE TELEVISION	SECT	SECTION
-D-		SPEC	SPECIFICATION
(D)	EXISTING TO BE DEMOLISHED	SPKR	SPEAKER
DC	DIRECT CURRENT	SWBD	SWITCHBOARD
DDC	DIRECT DIGITAL CONTROL	SWGR	SWITCHGEAR
DEF	DEFINITION	SYS	SYSTEM
DEG	DEGREE	-T-	
DEG F	DEGREES FAHRENHEIT	TELCOM	TELECOMMUNICATIONS
DEMO	DEMOLITION	TV	TELEVISION
DESCR	DESCRIPTION	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
DET	DETAIL	TYP	TYPICAL
DGTL	DIGITAL	-J-	
DIAG	DIAGRAM	UC	UNDERCOUNTER
DIM	DIMENSION	UGND	UNDERGROUND
DIR	DIRECTION	UL	UNDERWRITERS LABORATORIES
DISC	DISCONNECT	UON	UNLESS OTHERWISE NOTED
DISCH	DISCHARGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
DISTR	DISTRIBUTION PANEL	UTIL	UTILITY
PNL		-V-	
DIV	DIVISION	V	VOLT
DMR	DIMMER	VA	VOLT AMPERE
DS	DISCONNECT SWITCH	VFD	VARIABLE FREQUENCY DRIVE
DWG	DRAWING	VHO	VERY HIGH OUTPUT
-E-		VOLT	VOLTAGE
(E)	EXISTING TO REMAIN	-W-	
(ER)	EXSTING TO BE RELOCATED	W	WATT OR WIRE
EA	EACH	W	WITH
EH	ELECTRIC HEATER	W/O	WITHOUT
EL	ELEVATION	WP	WEATHERPROOF
ELEC	ELECTRIC	-X-	
EMER	EMERGENCY	XFER	TRANSFER
ENVIR	ENVIRONMENT	XFMR	TRANSFORMER
EPO	EMERGENCY POWER OFF		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EQUIV	EQUIVALENT		
EX	EXAMPLE		
EXCL	EXCLUDE		
EXH FN	EXHAUST FAN		
EXIST	EXISTING		
EXT	EXTERNAL		
-F-			
F	FAHRENHEIT		
FA	FIRE ALARM		
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL		
FC	FOOTCANDLE		
FDR	FEEDER		
FLEX	FLEXIBLE		

SYMBOLS LEGEND

ANNOTATION			
<div><div>1</div><div>E-201</div></div> TITLE SCALE: NTS	TITLE MARK DETAIL OR PLAN NO. - 1 FOUND IN E-201		
<div><div>1</div><div>E-501</div></div>	DETAIL REFERENCE DETAIL NO. - 1 FOUND IN E-501		
<div><div>1</div></div>	SECTION MARK SECTION NO. - 1 FOUND IN E-501		
<div><div>1</div></div>	SHEET KEYNOTE		
<div><div>1</div></div>	REVISION CLOUD (DELTA 1)		
<div><div>2</div><div>E-201</div></div>	DETAIL BOUNDARY B DETAIL NO. - 2		
LP4:12	PANEL:CIRCUIT		
POWER OUTLETS			
FLR	WALL	CLG	
			DUPLEX
			QUADRUPLEX
			GFCI DUPLEX
			SIMPLEX
			EMERGENCY DUPLEX
			EMERGENCY QUADRUPLEX
			EMERGENCY SIMPLEX
	FLOOR BOX "X" - (DESCRIBE AND SPEC BOX)		
			JUNCTION BOX
			POKE THRU
			COUNTERTOP DUPLEX
			ISOLATED GROUND DUPLEX
			ISOLATED GROUND SIMPLEX
			EXPLOSION PROOF DUPLEX
			EXPLOSION PROOF SIMPLEX
			SPLIT WIRE
			SPECIAL OUTLET
	MULTI OUTLET SURFACE RACEWAY		
WIRING			
	3/4" CONDUIT WITH 2#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
	3/4" CONDUIT WITH 3#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
	3/4" CONDUIT WITH 4#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
	CONDUIT HOMERUN TO PANEL BOARD 1/2" WITH CIRCUIT 1,3,5		
	CAPPED CONDUIT		
	CONDUIT RUN UNDERGROUND OR UNDER THE FLOOR SLAB		
	CONDUIT TURNING DOWN		
	CONDUIT TURNING UP		
	CONDUIT BREAK		
LIGHTING			
FLR	WALL	CLG	
			RECESSED DOWNLIGHT
			1x4 SURFACE MOUNTED LIGHT
			2x4 SURFACE MOUNTED LIGHT
			4FT WALL MOUNTED LIGHT
			1x4 EMERGENCY LIGHT
			2x4 EMERGENCY LIGHT
			2x4 RECESSED LIGHT
			EXIT SIGN 1 FACE
			EXIT SIGN 1 FACE LEFT ARROW
SWITCHES/CONTROLS			
FLR	WALL	CLG	
			LIGHT SWITCH - TIME OPERATED
			LIGHT SWITCH - SINGLE POLE
			LIGHT SWITCH - THREE WAY
			LIGHT SWITCH - KEY OPERATED

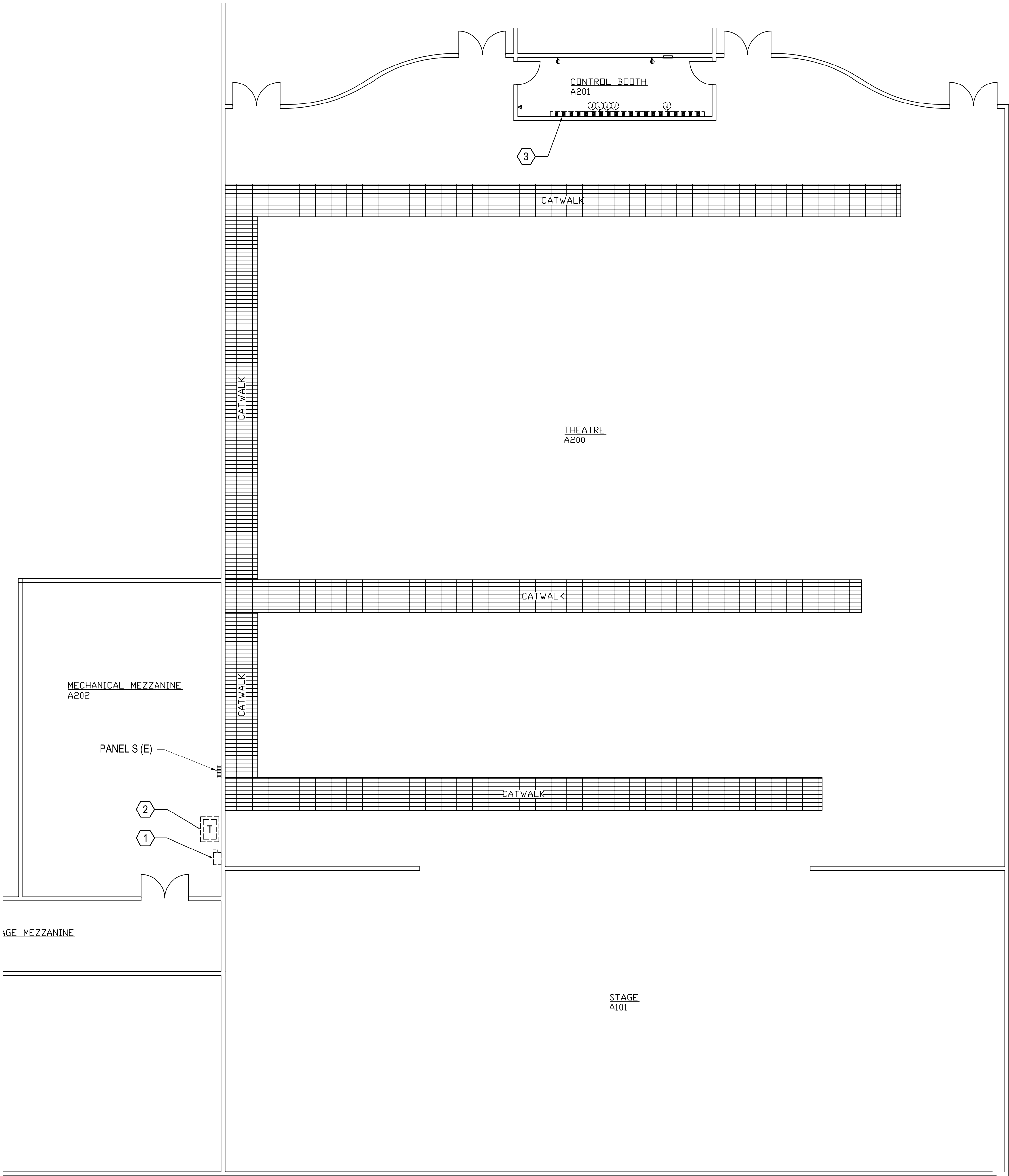
FLR	WALL	CLG	
			LIGHT SWITCH - WITH PILOT LIGHT
			SWITCH - WITH THERMAL OVERLOAD
			DIMMER
			OCCUPANCY SENSOR
			PHOTOCELL
			OCCUPANCY SENSOR POWER PACK
			VERRIDE SWITCH
POWER			
			DISTRIBUTION BOARD
			RECESSED PANEL
			SURFACE MOUNTED PANEL
			TRANSFORMER
			DISCONNECT SWITCH
			SWITCH - MOTOR RATED
			FUSED DISCONNECT SWITCH
			MAGNETIC MOTOR STARTER
			STARTER - DISCONNECT SWITCH
			MOTOR
			RELAY
			VARIABLE FREQUENCY DRIVE
			PULL BOX
			CABLE TRAY
SINGLE LINE DIAGRAM			
			CIRCUIT BREAKER SWITCH
			FUSE - IN-LINE
			FUSE SWITCH
			FUSED - SWITCH BUS PLUG
			CIRCUIT BREAKER ENCLOSED
			KIRK KEY INTERLOCK
			SWITCHGEAR BUSWAY
			GROUND FAULT RELAY
			AMMETER
			DIGITAL METER UON
			TRANSFORMER - DELTA WYE-GROUNDED
			ATS - 3-POLE UON BP - WITH BYPASS ISOLATION
			BATTERY
			GENERATOR
			PANEL
			2000 = AMPACITY 3-NO, 4-SINGLE, 5-DOUBLE = NEUTRAL (+) = ADDITIONAL INFO AS REQUIRED
GROUNDING SYSTEM			
			GROUND TEST WELL
			GROUND CABLE CONNECTION
			GROUND ROD - MIN. 3/4"Ø x 10' LONG
			GROUND PLATE - WALL MOUNT
			GROUND PLATE - FLOOR MOUNT
			AIR TERMINAL - LIGHTNING ARRESTOR
			EQUIPMENT CONNECTION

FLR	WALL	CLG	
			LIGHT SWITCH - WITH PILOT LIGHT
			SWITCH - WITH THERMAL OVERLOAD
			DIMMER
			OCCUPANCY SENSOR
			PHOTOCELL
			OCCUPANCY SENSOR POWER PACK
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POWER			
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			AMMETER
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			AIR TERMINAL - LIGHTNING ARRESTOR
			EQUIPMENT CONNECTION

GENERAL NOTES

- ALL SYMBOLS SHOWN ON SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- CUT AND PATCH TO MATCH ALL EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER INSTALLATION OF NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS EXISTING AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR INSTALLATION OF THE ELECTRICAL WORK. FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.
- THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF THE ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS, AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND BEAR THE UNDERWRITERS (AND/OR EQUIVALENT TESTING AGENCY) LABEL.
- ALL WALL JUNCTION BOXES SHALL BE MOUNTED FLUSH WITH FINISHED FACE OF WALL. PROVIDE EXTENSION BOXES AT WALLS WITH APPLIED ACOUSTIC PANELS. ALL WALL JUNCTION BOXES SHALL BE INSTALLED WITH MOUNTING HOLES AT TOP AND BOTTOM, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL EMPTY CONDUITS. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, THE ELECTRICAL CONTRACTOR SHALL IDENTIFY EACH J-BOX AND CONDUIT IN A MANNER ALLOWING IDENTIFICATION OF J-BOXES CONDUITS AFTER ALL WALL FINISHES HAVE BEEN APPLIED.
- PROVIDE FINISH TRIM ON ALL FLOOR ELECTRICAL BOXES. FINISH REQUIREMENTS SHALL BE DETERMINED BY OWNER.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ALL LOCAL APPLICABLE CODES AND REGULATIONS.
- MINIMUM SIZE OF CONDUITS SHALL BE 3/4"; MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG, U.O.N.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN.
- ALL CONDUCTORS SHALL BE COPPER TYPE THWN INSULATION.
- ALL JUNCTION BOXES AND PULL BOXES SHALL BE OF CODE GAUGE AND OF THE REQUIRED SIZE TO ACCOMMODATE NUMBER OF CONDUCTORS SHOWN.
- THE CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL OUTLET BOXES FOR SWITCHES, RECEPTACLES, SPEAKERS, ETC.
- FOR ALL WIRING DEVICES VERIFY FINISH COLOR WITH OWNER.
- PROVIDE TYPEWRITTEN PANEL SCHEDULES TO BE MOUNTED ON INSIDE OF ALL PANEL COVER DOORS. SCHEDULE TO MATCH THOSE SHOWN ON DRAWINGS.
- ALUMINUM CONDUCTORS SHALL NOT BE USED ON THIS PROJECT.
- TYPE MC OR AC CABLES SHALL BE USED FOR MOTOR AND LIGHT FIXTURE CONNECTIONS ONLY. THE LENGTH SHALL NOT EXCEED 6' IN AREAS WHERE OTHER APPROVED WIRING METHODS ARE IMPRACTICAL. TYPE MC OR AC CABLE MAY BE USED WHERE APPROVED BY THE ENGINEER. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LUMINAIRES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT OR PIPING INTERFERENCE, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING, AND THE RECORD DRAWINGS SHALL BE ACCURATELY REVISED TO SHOW THE CHANGES AS COMPLETED.
- ALL WORK SHALL COMPLY WITH ALL GOVERNING CODES AND ORDINANCES.
- INTERCONNECT FIRE ALARM STROBE LIGHT (+80AFV) WITH WIRE AND MINIMUM 1/2" CONDUIT AND ROUTE TO EXISTING LIFE SAFETY TERMINAL CABINET. STROBE LIGHT TYPE AND WIRING SHALL MATCH BUILDING STANDARD. CONTRACTOR TO COORDINATE WITH BUILDING FIRE ALARM SYSTEM CONTRACTOR FOR POWER SUPPLY REQUIREMENTS, PROVIDE NEW POWER SUPPLY IF REQUIRED.
- EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS AND CABINET SHOP DRAWINGS TO ENSURE THE PROPER HEIGHT AND LOCATION WITH RESPECT TO CABINETS, EQUIPMENT, ETC.
- COORDINATE BOX LOCATION WITH EXISTING MILLWORK.
- THE WORK OF THIS PROJECT INVOLVES ALTERATION OF THE EXISTING BUILDING TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS SHOW THE CHANGES TO BE MADE. THE CONTRACTOR SHALL REVISE, REARRANGE, REROUTE OR REMOVE EXISTING WIRING AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITION SHOWN AND TO PROVIDE CONTINUING ELECTRICAL SERVICE TO THOSE EXISTING PORTIONS OF THE PROJECT WHICH ARE TO REMAIN IN OPERATION.
- THE ALTERATION OF THE EX

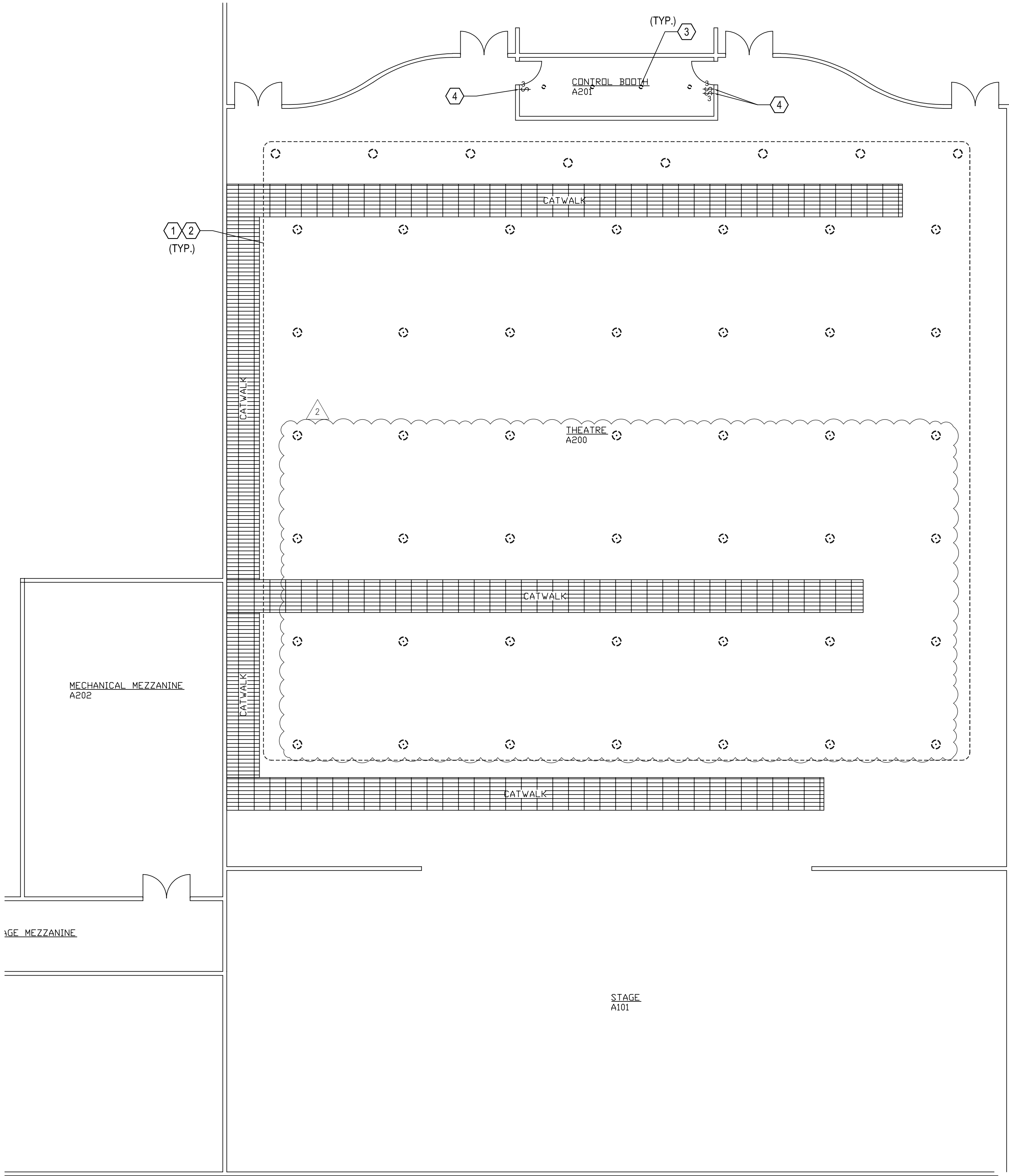




1 UPPER LEVEL AUDITORIUM DEMOLITION PART PLAN - POWER AND TELECOM  
ED-101/ 1/8" = 1'-0"

KEYED NOTES - POWER AND TELECOM (#)

1. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH. MAINTAINED RELATED FEEDER FOR RECONNECTION.
2. DISCONNECT AND REMOVE EXISTING TRANSFORMER. DISCONNECT AND REMOVE EXISTING FEEDER CONDUCTORS BETWEEN DISCONNECT SWITCH AND TRANSFORMER. MAINTAIN RELATED CONDUIT FOR REUSE.
3. DISCONNECT AND REMOVE EXISTING SURFACE-MOUNTED RACEWAY INCLUDING RELATED WIRING DEVICES.



2 UPPER LEVEL AUDITORIUM DEMOLITION PART PLAN - LIGHTING  
ED-101/ 1/8" = 1'-0"

KEYED NOTES - LIGHTING (#)

1. DISCONNECT AND REMOVE EXISTING RECESSED DOWNLIGHT WITHIN DASHED BOUNDARY. DISCONNECT AND REMOVE RELATED LIGHTING BRANCH CIRCUITING.
2. DISCONNECT AND REMOVE EXISTING PENDANT DOWNLIGHT WITHIN DASHED BOUNDARY. DISCONNECT AND REMOVE RELATED LIGHTING BRANCH CIRCUITING.
3. DISCONNECT AND REMOVE EXISTING RECESSED DOWNLIGHT. MAINTAIN RELATED LIGHTING BRANCH CIRCUITING FOR RECONNECTION.
4. DISCONNECT AND REMOVE EXISTING SWITCH. MAINTAIN MAINTAIN RELATED LIGHTING BRANCH CIRCUITING FOR RECONNECTION.

Revisions
REV 1 WALK-THROUGH UPDATES
REV 2 ADDENDA 1



02-14-2024

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DURHAM PUBLIC SCHOOLS  
RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES  
DURHAM, NC

Date: 02-14-2024

Not for Construction

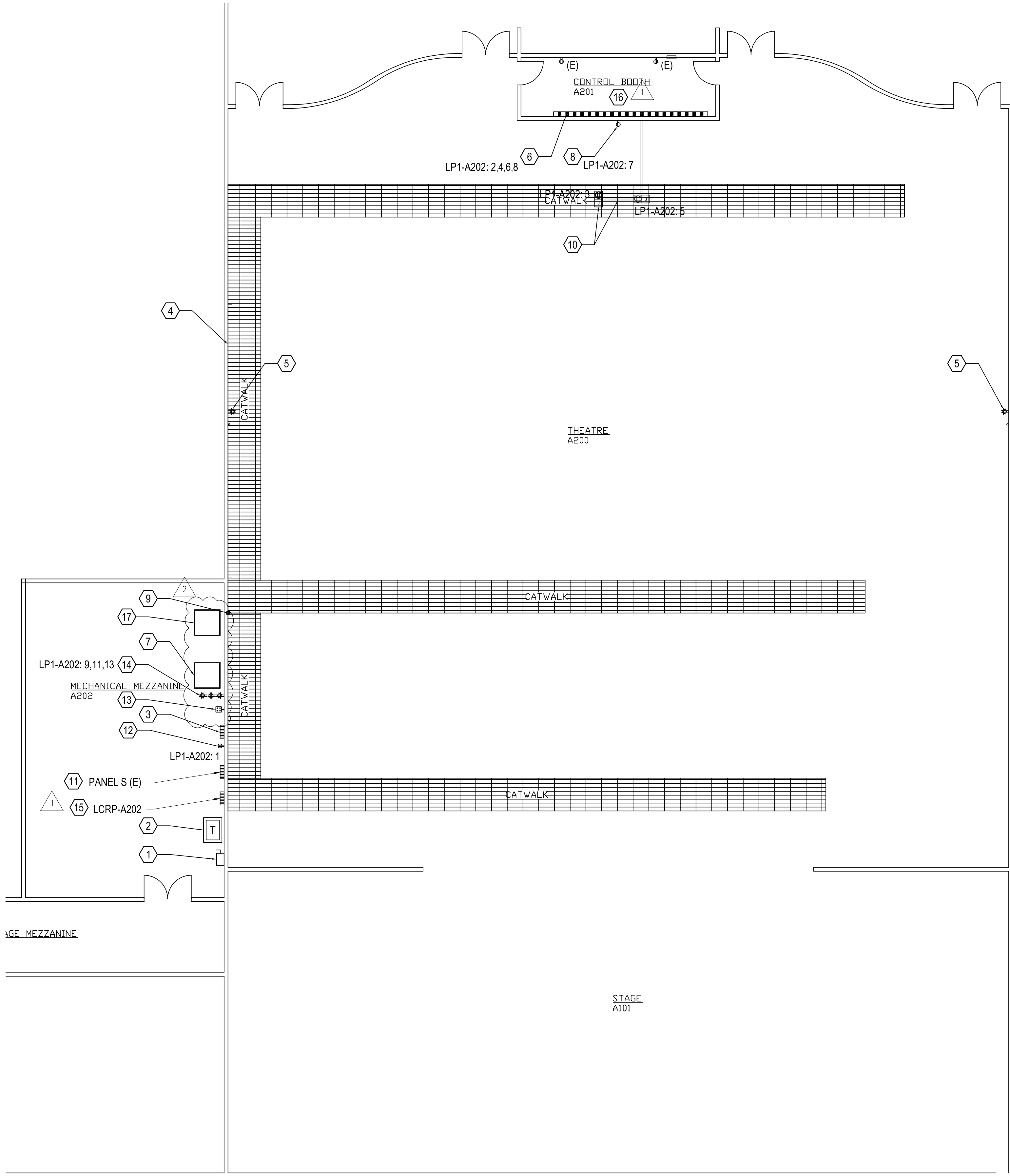
Design Development

Construction Drawings

Revisions

Sheet Name  
ELECTRICAL  
UPPER LEVEL AUDITORIUM  
DEMOLITION PART PLANS



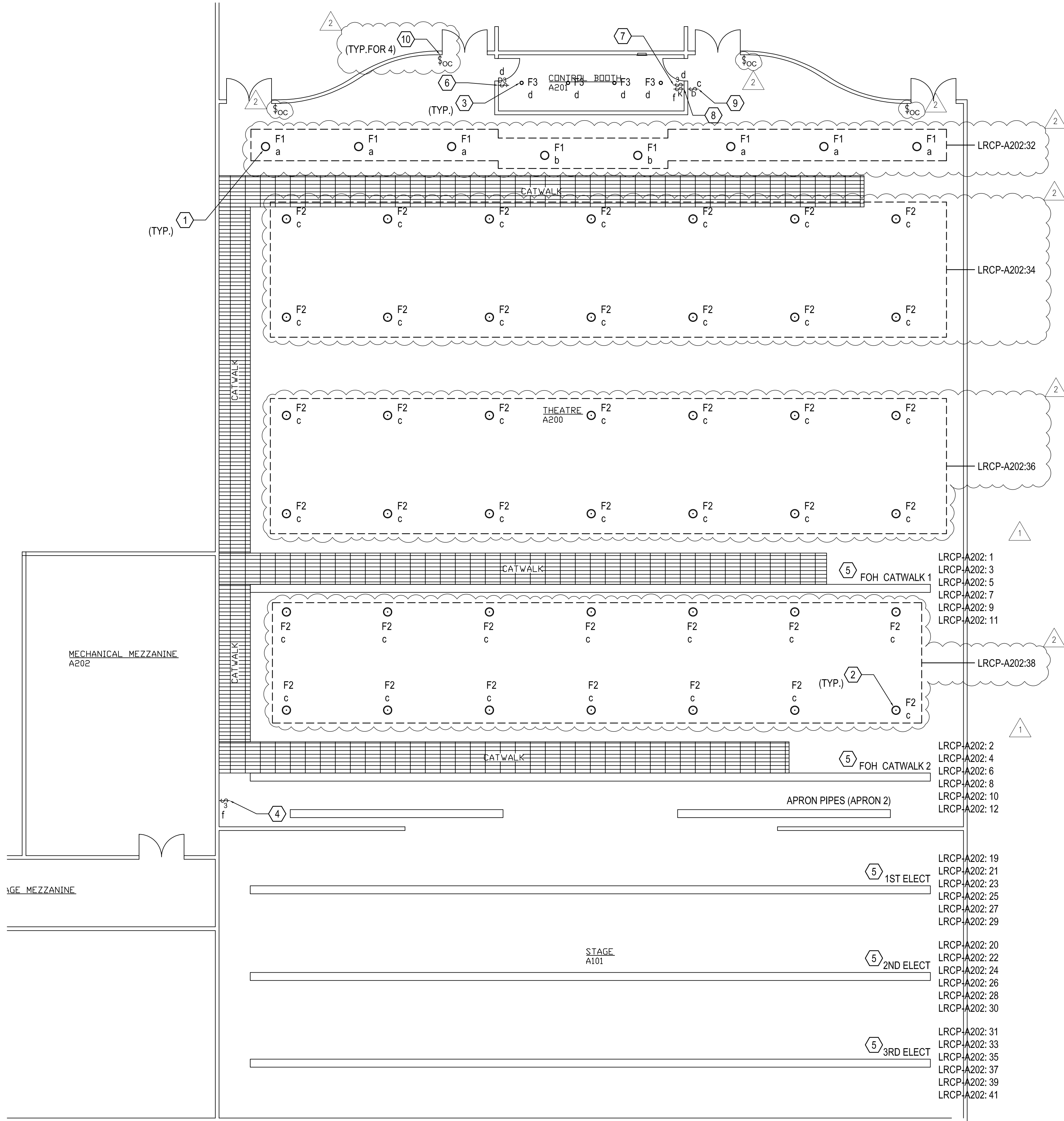


1 UPPER LEVEL AUDITORIUM NEW WORK PART PLAN - POWER AND TELECOM  
E-101 1/8" = 1'-0"

KEYED NOTES - POWER AND TELECOM (#)

1. PROVIDE DISCONNECT SWITCH. RECONNECT TO EXISTING FEEDER MAINTAINED FROM DEMOLITION.
2. PROVIDE TRANSFORMER 'T-A202'. PROVIDE FEEDER CONDUCTORS AND CONDUIT BETWEEN DISCONNECT SWITCH AND PROPOSED PANELBOARD. RECONNECT EXISTING FEEDER MAINTAINED FROM DEMOLITION BETWEEN SUPPLY SIDE OF DISCONNECT SWITCH AND TRANSFORMER.
3. PROVIDE PANELBOARD LP1-A202. PROVIDE FEEDER CONDUCTORS AND CONDUIT BETWEEN PANELBOARD AND TRANSFORMER SECONDARY.
4. PROVIDE BASKET TYPE CABLE TRAY. MOUNT ABOVE WALL SOUND CLOUD AT BOTTOM OF REAR WALL ACCESS PANEL. FIELD COORDINATE EXACT HEIGHT OF TRAY PRIOR TO START OF WORK.  
BASIS OF DESIGN: MPHUSKY #WB22-6-3M-EZ OR EQUIVALENT.
5. PROVIDE SURFACE-MOUNTED, DUPLEX RECEPTACLE. EXTEND EXISTING LIGHTING BRANCH CIRCUIT FROM CLOSET BELOW TO DEVICE.
6. PROVIDE PRE-WIRED, DUAL-CHANNEL, SURFACE-MOUNTED RACEWAY FOR POWER AND TELECOMMUNICATIONS. PROVIDE DUPLEX RECEPTACLES AT ONE (1) FOOT SPACING BETWEEN EACH WIRING DEVICE. PROVIDE FOUR (4) BRANCH CIRCUITS. MAXIMUM NUMBER OF DUPLEX RECEPTACLES PERMITTED TO BE COMBINED ON A SINGLE BRANCH CIRCUIT SHALL BE FIVE (5) WIRING DEVICES UNLESS OTHERWISE NOTED. PROVIDE ADDITIONAL HARDWARE AND MATERIALS FOR A COMPLETE INSTALLATION AS REQUIRED. CONNECT TO PANEL AND CIRCUIT INDICATED. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12G UNLESS OTHERWISE NOTED.
7. BASIS OF DESIGN: LEGRAND 4000 DUAL-CHANNEL RACEWAY OR EQUIVALENT  
PROVIDE 45U CHANNEL RACKS WITH CABLE MANAGEMENT SYSTEM FOR AUDIO/VISUAL EQUIPMENT. FIELD COORDINATE EXACT LOCATION WITH OWNER PRIOR TO START OF WORK.
8. PROVIDE DUPLEX RECEPTACLE. SURFACE MOUNT AND INSTALL AT CENTER OF

- EXTERIOR CONTROL BOOTH WALL AT 6" ABOVE WINDOW. CONNECT TO PANEL AND CIRCUIT INDICATED. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12G IN 1/2"C.
9. PROVIDE TWO (2) 4" WALL PENETRATIONS USING EZ PATH AND CATWALK AREA. COORDINATE EXACT LOCATION OF PENETRATIONS WITH CABLE TRAY LOCATION.
10. PROVIDE SURFACE-MOUNTED, OVERFLOOR RACEWAY AND QUADRUPLX RECEPTACLES AS INDICATED. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12 IN 1/2"C. PROVIDE ADDITIONAL HARDWARE AND MATERIALS AS REQUIRED FOR A COMPLETE INSTALLATION. CONNECT TO PANEL AND CIRCUIT INDICATED. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS.  
BASIS OF DESIGN: LEGRAND WIREMOLD OFR OR EQUIVALENT
11. EXISTING PANEL 'S' SHALL REMAIN. RECONNECT EXISTING FEEDER MAINTAINED FROM DEMOLITION TO TRANSFORMER SECONDARY.
12. PROVIDE DUPLEX RECEPTACLE. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12G IN 1/2"C. CONNECT TO PANEL AND CIRCUIT INDICATED.
13. PROVIDE TELECOMMUNICATIONS GROUND BUS BAR.
14. PROVIDE QUADRUPLX RECEPTACLE. PROVIDE DEDICATED BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12 IN 1/2"C. EACH. CONNECT TO PANEL CIRCUIT INDICATED (APPLICABLE TO THREE SEPARATE (3) WIRING DEVICES).
15. PROVIDE LIGHTING CONTROL RELAY PANEL (LRCP).  
BASIS OF DESIGN: ETC SENSOR IQ48 SURFACE MOUNTED PANEL. REFER TO SPECIFICATIONS AND REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION.
16. PROVIDE CONNECTIONS FOR 3-GANG CONTROL BOOTH 1250.1 PLUG-IN STATION, EOS APEX 5 CONTROL CONSOLE, AND UNISON PARADIGM PORTABLE 7" TOUCHSCREEN.
17. PROVIDE 16U CHANNEL RACK WITH CABLE MANAGEMENT SYSTEM FOR LIGHTING CONTROL EQUIPMENT.



2 UPPER LEVEL AUDITORIUM NEW WORK PART PLAN - LIGHTING  
E-101 1/8" = 1'-0"

KEYED NOTES - LIGHTING (#)

1. PROVIDE RECESSED DOWNLIGHT (APPLICABLE TO TYPE 'F1' LIGHT FIXTURES). CONNECT TO LIGHTING BRANCH AND CONTROL CIRCUITING INDICATED.
2. PROVIDE PENDANT DOWNLIGHT (APPLICABLE TO TYPE 'F2' LIGHT FIXTURES). CONNECT TO LIGHTING BRANCH AND CONTROL CIRCUITING INDICATED.
3. PROVIDE RECESSED DOWNLIGHT. RECONNECT TO EXISTING LIGHTING BRANCH CIRCUIT MAINTAINED FROM DEMOLITION. CONNECT TO CONTROL CIRCUITING INDICATED.
4. PROVIDE SWITCH ("CATWALK ENTRY") FOR CATWALK LIGHTING AT ENTRANCE TO CATWALK  
BASIS OF DESIGN: PARADIGM INSPIRE P11002.
5. 50' RACEWAY FOR STAGE ELECTRONICS. FIELD COORDINATE EXACT LOCATIONS WITH EXISTING CONDITIONS. COORDINATE REQUIREMENTS WITH SPECIFICATIONS AND REFERENCE DRAWINGS.
6. PROVIDE THREE-WAY, DIMMER SWITCH. CONNECT TO EXISTING LIGHTING BRANCH AND CONTROL CIRCUITING MAINTAINED FROM DEMOLITION.
7. PROVIDE THREE-WAY LIGHT SWITCH. CONNECT TO EXISTING LIGHTING BRANCH AND CONTROL CIRCUITING MAINTAINED FROM DEMOLITION.

8. PROVIDE KEYED SWITCH. CONNECT TO EXISTING LIGHTING BRANCH AND CONTROL CIRCUITING MAINTAINED FROM DEMOLITION.
9. PROVIDE DIMMER SWITCH. CONNECT TO EXISTING LIGHTING BRANCH AND CONTROL CIRCUITING MAINTAINED FROM DEMOLITION.
10. PROVIDE WALL-MOUNTED OCCUPANCY SENSOR SWITCH AT ENTRY AS INDICATED.  
BASIS OF DESIGN: PARADIGM P-D0C-SM2

Revisions  
REV 1 WALK-THROUGH UPDATES  
REV 2 ADDENDA 1



02-14-2024

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DURHAM PUBLIC SCHOOLS  
RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES  
DURHAM, NC

Date: 02-14-2024

Not for Construction

Design Development

Construction Drawings

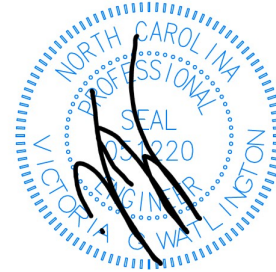
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Revisions

Sheet Name  
ELECTRICAL  
UPPER LEVEL AUDITORIUM  
NEW WORK PART PLANS  
Sheet Number  
E-101



Revisions
REV 1 WALK-THROUGH UPDATES
REV 2 ADDENDA 1



02-13-2024

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DURHAM PUBLIC SCHOOLS

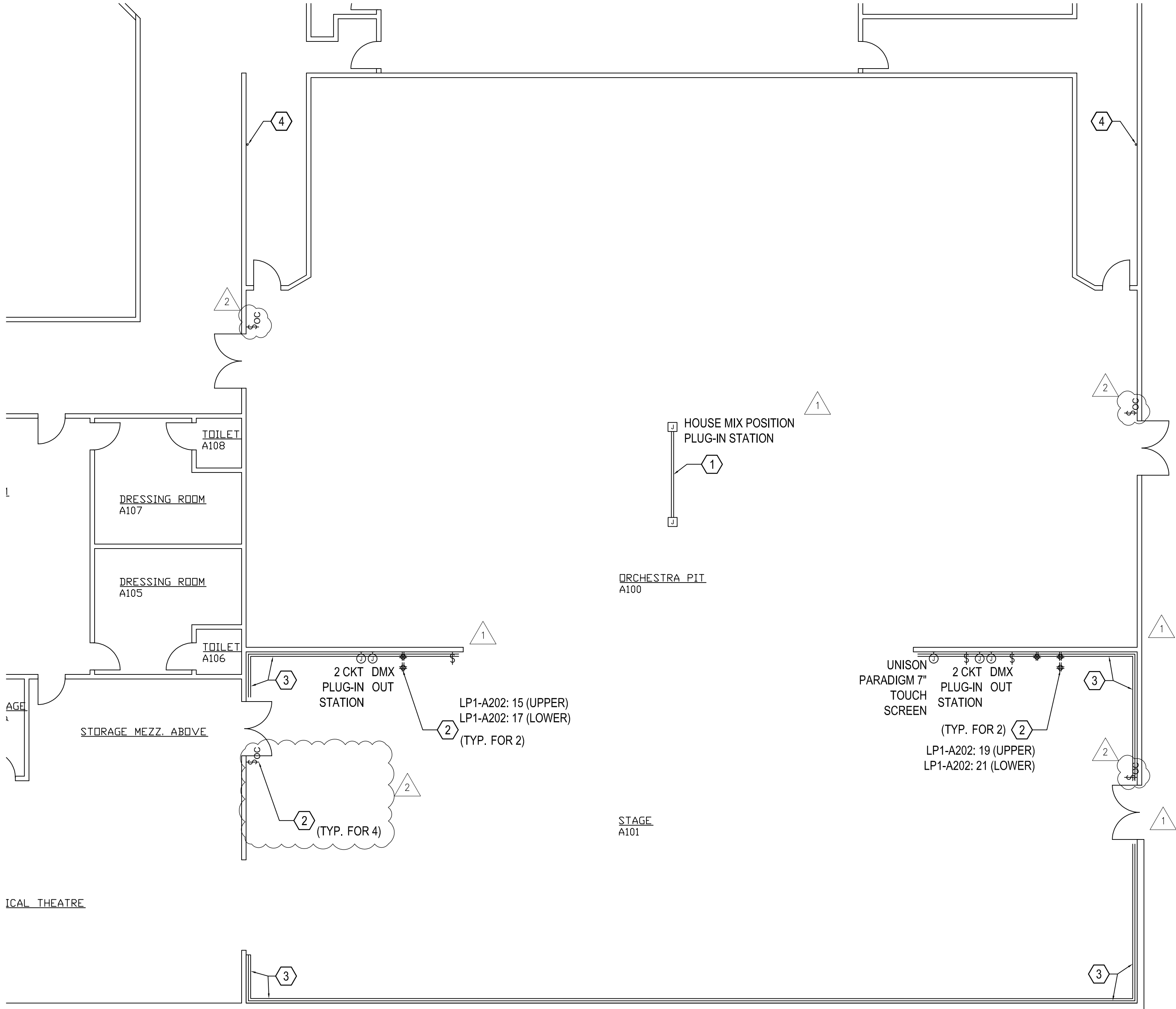
RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES

DURHAM, NC

Date: 02-13-2024	
Not for Construction	
Design Development	
Construction Drawings	X
Revisions	

Sheet Name  
ELECTRICAL  
LOWER LEVEL AUDITORIUM  
NEW WORK PART PLANS

Sheet Number  
E-102



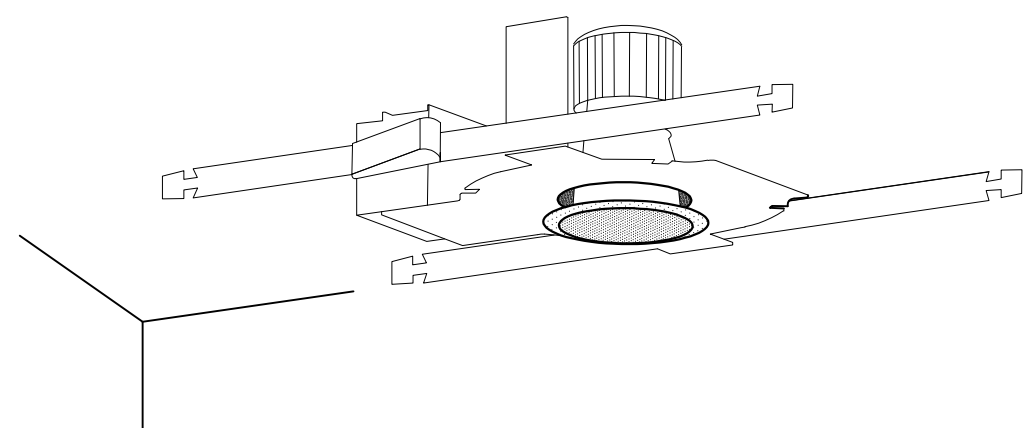
1 LOWER LEVEL AUDITORIUM NEW WORK PART PLAN - POWER AND TELECOM

E-102 1/8" = 1'-0"

KEYED NOTES - POWER AND TELECOM

- PROVIDE SURFACE-MOUNTED, OVERFLOOR RACEWAY FROM SURFACE-MOUNTED STAGE CONDUIT FOR LOW VOLTAGE CABLING. ROUTE TO SURFACE-MOUNTED 3-GANG BOX HOUSE MIX PLUG-IN STATION LOCATED IN HALF-HEIGHT WALL. FIELD COORDINATE EXACT ROUTING AND LOCATION WITH EXISTING CONDITIONS AND OWNER.  
BASIS OF DESIGN: LEGRAND WIREMOLD OFR OR EQUIVALENT
- PROVIDE SURFACE-MOUNTED, QUADRUPLUX RECEPTACLE. PROVIDE DEDICATED BRANCH CIRCUIT CONSISTING OF (2)#10, (1)#10G IN 1/2". CONNECT TO PANEL AND CIRCUIT INDICATED. FIELD COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE ADD ALTERNATE PRICING FOR SURFACE-MOUNTED CONDUIT AND BACKBOXES (30 TOTAL FOR THE ENTIRE BACKSTAGE AREA) FOR BLUESYSTEM STAGE LIGHTS. FIELD COORDINATE SYSTEM LAYOUT AND BACKBOX REQUIREMENTS WITH OWNER PRIOR TO START OF WORK.
- EXTEND EXISTING LIGHTING BRANCH CIRCUIT CLOSET BELOW TO DEVICE SHOWN ON 1/E-101.
- PROVIDE WALL-MOUNTED OCCUPANCY SENSOR SWITCH AT ENTRY AS INDICATED.  
BASIS OF DESIGN: PARADIGM P-D0C-SM2

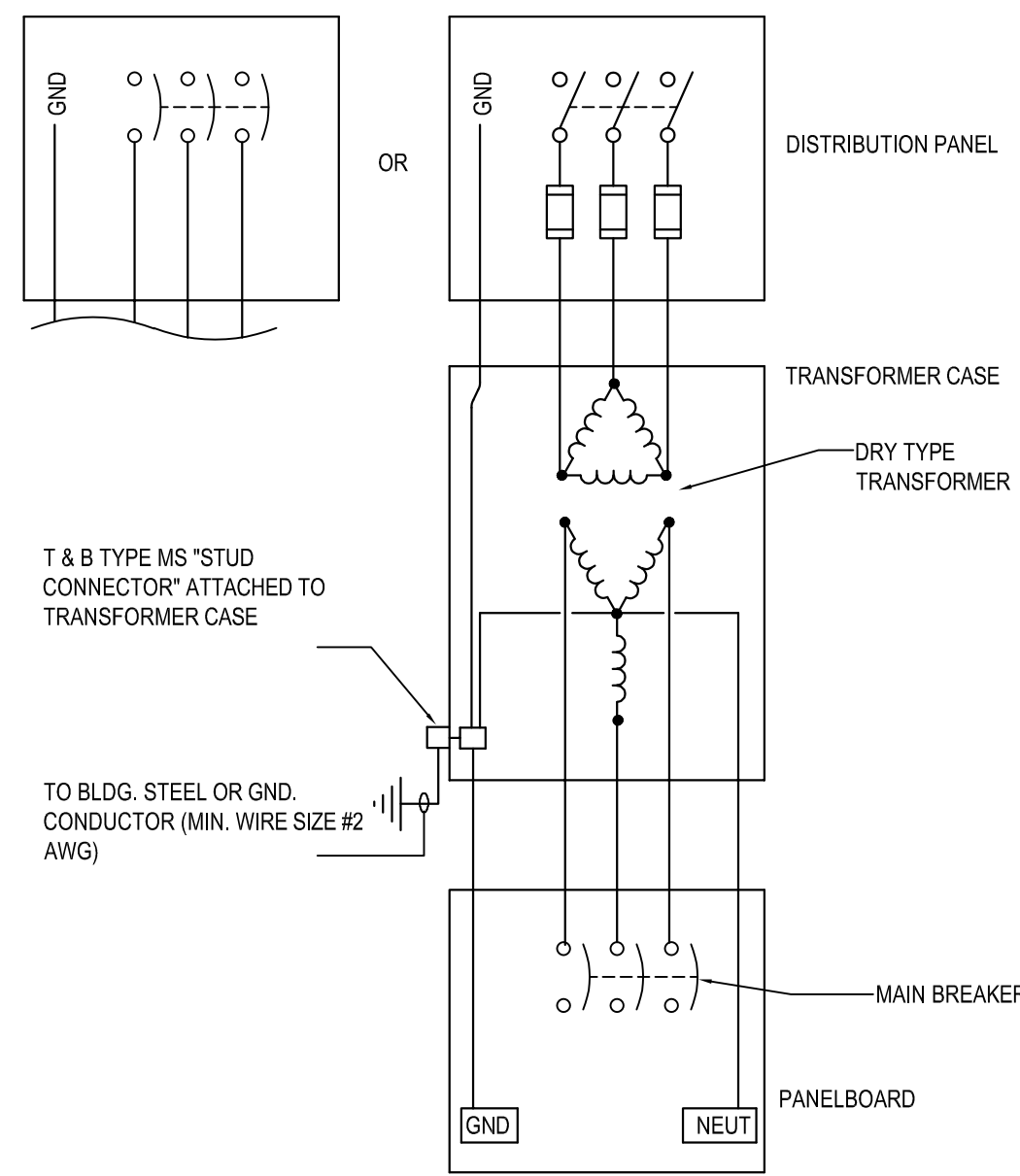
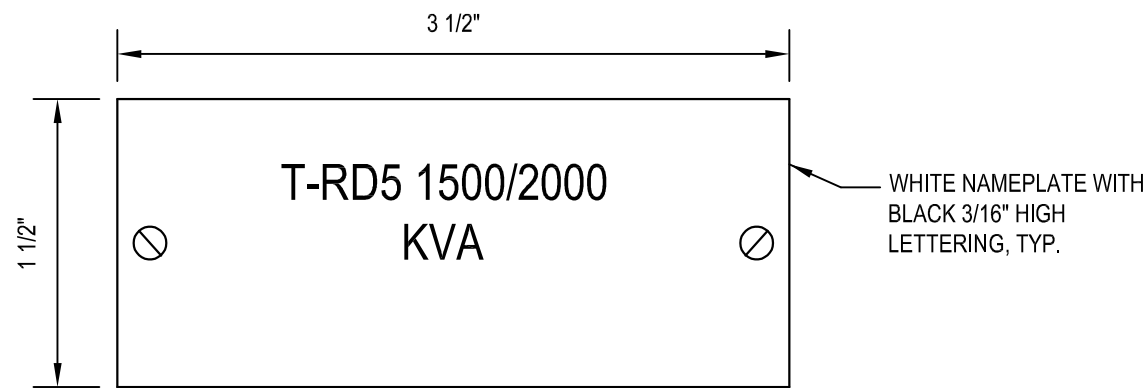
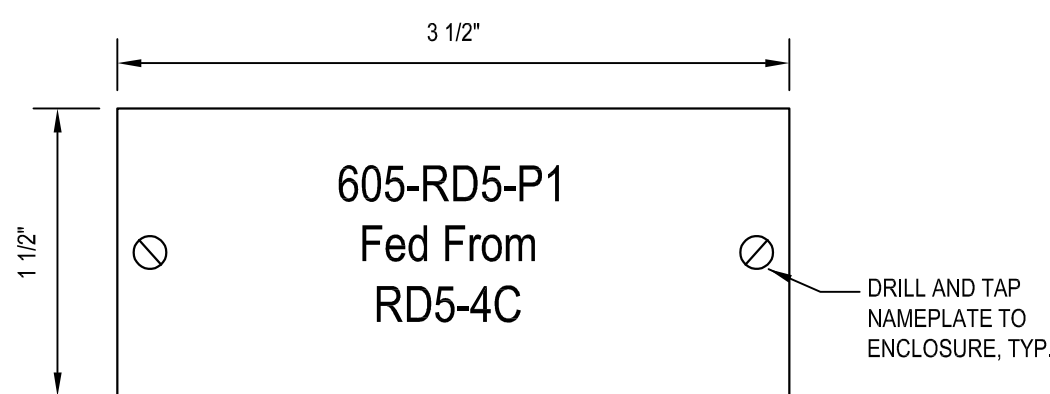




NOTE: THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS, IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LUMINAIRE REQUIREMENTS:

- HOUSING - COLD-ROLLED STEEL OR DIE CAST ALUMINUM, WITH HEAT SINK. APERTURE SIZE AND SHAPE AS INDICATED IN LUMINAIRE SCHEDULE.
- LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 70 LUMENS/WATT UON. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
- DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, AND < 20% THD. ON/OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
- CERTIFICATION - UL LISTED FOR DRY OR DAMP LOCATION, ROHS COMPLIANT. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
- MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
- OPTIONS - EMERGENCY BATTERY BACK-UP, VARIOUS ACRYLIC OR POLYCARBONATE LENSES, REFLECTORS, LOUVERS AND TRIMS. VARIOUS BEAM ANGLES, IC RATED HOUSING.



TYPICAL 3-PHASE PANEL AND TRANSFORMER GROUNDING DETAIL

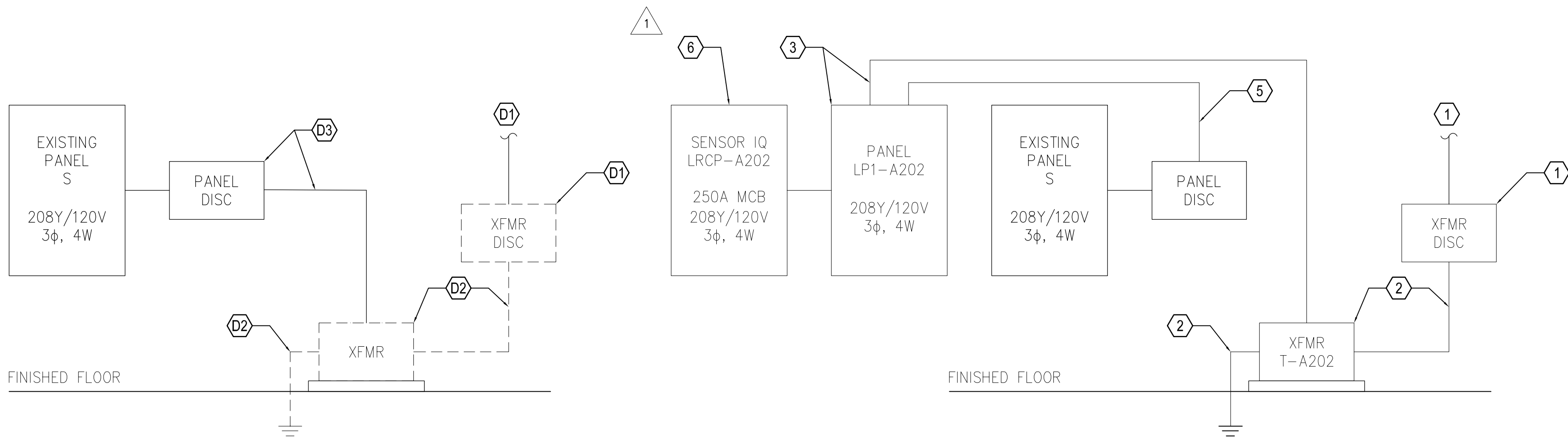
1 TYPICAL RECESSED DOWNLIGHT DETAIL  
E-601 NONE

2 TYPICAL NAMEPLATE DETAIL  
E-601 NONE

3 TYPICAL 3-PHASE PANEL AND TRANSFORMER GROUNDING DETAIL  
E-601 NONE

LIGHT FIXTURE SCHEDULE									
FIXTURE SYMBOL	GENERIC DESCRIPTION	FIXTURE TAG	MANUFACTURER AND MODEL	MOUNTING/ HEIGHT	VOLTAGE	LIGHT SOURCE	COLOR TEMP.	CRI	NOTES
○	DOWNLIGHT	FA	LIGHT SOURCE RRL-120-WMA78-30K-125-R OR EQUIVALENT	RECESSED	120-277V	LED	30K	>90	1) PROVIDE ADDITIONAL INSTALLATION MATERIALS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION (I.E. TRIM, EMERGENCY PROVISIONS, ETC.). 2) ENSURE THAT INTEGRAL CONTROLS ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM.
●	DOWNLIGHT	FB	LIGHT SOURCE RHL-120-B-78-30K-C-4C OR EQUIVALENT	PENDANT	120-277V	LED	30K	80+	1) PROVIDE ADDITIONAL INSTALLATION MATERIALS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION (I.E. TRIM, EMERGENCY PROVISIONS, ETC.). 2) ENSURE THAT INTEGRAL CONTROLS ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM. 3) FIELD COORDINATE MOUNTING HEIGHT TO MATCH ORIGINAL INSTALLATION.
○	DOWNLIGHT	FC	PORTIFOLIO RLD68-15-DMX (HOUSING); HEUB8-1028-90-3500 (MODULE); 6LS-H-H-MB (TRIM) OR EQUIVALENT	RECESSED	120-277V	LED	TBD	TBD	1) PROVIDE ADDITIONAL INSTALLATION MATERIALS AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION (I.E. TRIM, EMERGENCY PROVISIONS, ETC.). 2) ENSURE THAT INTEGRAL CONTROLS ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM.

LIGHT FIXTURE SCHEDULE



4 ONE-LINE RISER DIAGRAM - DEMOLITION  
E-601 NONE

KEYED NOTES - DEMOLITION (D#)

- DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH. MAINTAIN FEEDER FOR RECONNECTION.
- DISCONNECT AND REMOVE EXISTING TRANSFORMER. DISCONNECT AND REMOVE FEEDER CONDUCTORS BETWEEN DISCONNECT SWITCH AND TRANSFORMER. MAINTAIN FEEDER CONDUIT FOR REUSE. DISCONNECT AND REMOVE EXISTING GROUNDING ELECTRODE CONDUCTOR.
- EXISTING PANEL DISCONNECT SWITCH SHALL REMAIN. EXISTING FEEDER CIRCUIT CONDUCTORS AND CONDUIT BETWEEN DISCONNECT SWITCH AND TRANSFORMER SHALL BE RETAINED FOR RECONNECTION TO NEW POWER SOURCE.

5 ONE-LINE RISER DIAGRAM - NEW WORK  
E-601 NONE

KEYED NOTES - NEW WORK (#)

- PROVIDE 200-AMP, 3-POLE, HEAVY DUTY FUSED DISCONNECT SWITCH WITH 200A FUSES IN NEMA 1 ENCLOSURE. CONNECT TO EXISTING FEEDER MAINTAINED FROM DEMOLITION.
- PROVIDE 150 KVA, DRY-TYPE TRANSFORMER 'T-A202'. PROVIDE FEEDER CONDUCTORS AND CONDUIT BETWEEN DISCONNECT SWITCH AND TRANSFORMER CONSISTING OF (4)#3/0, (1)#4G IN 2-1/2" C. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONSISTING OF #4 BARE COPPER CONDUCTOR. CONNECT TO EXISTING GROUNDING ELECTRODE SYSTEM.
- PROVIDE PANELBOARD 'LP1-A202'. PROVIDE FEEDER CONDUCTORS AND CONDUIT CONSISTING OF TWO (2) SETS OF (4)#3/0, (1)#4G IN 3" C. BETWEEN TRANSFORMER AND PANELBOARD.
- NOT USED.
- EXTEND EXISTING PANEL S DISCONNECT SWITCH FEEDER AND CONNECT TO PANEL LP1-A202 AS INDICATED. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES AS REQUIRED.
- PROVIDE LIGHTING CONTROL RELAY PANEL 'LGRP-A202'. PROVIDE FEEDER CONDUCTORS AND CONDUIT CONSISTING OF (4)#250KCMIL, (1)#4G IN 2-1/2" C. AND CONNECT TO PANEL SOURCE INDICATED.

PANEL NAME			LOCATION:		VOLTAGE				208Y/120V		3 PHASE		MOUNTING / ENCLOSURE:		SURFACE / NEMA 1		
PANEL 'LP1-A202' (NEW)			MECHANICAL MEZZANINE A202						400A MCB								
					KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION		TYPE	POLES	AMPS	
20	1		RCPT - RM A202	0.18	1	1.08			2	0.90	SURFACE RACEWAY RCPT - RM A201			1	20		
20	1		FLOOR QUAD - RM A200	0.36	3		1.26		4	0.90	SURFACE RACEWAY RCPT - RM A201			1	20		
20	1		FLOOR QUAD - RM A200	0.36	5			1.26	6	0.90	SURFACE RACEWAY RCPT - RM A201			1	20		
20	1		RCPT - RM A200	0.18	7	1.08			8	0.90	SURFACE RACEWAY RCPT - RM A201			1	20		
20	1		QUAD UPPER - RM A202	0.50	9		0.50		10	0.00	SPARE			1	20		
20	1		QUAD MID - RM A202	0.50	11		0.50	12	0.00	SPARE			1	20			
20	1		QUAD LOWER - RM A202	0.50	13	14.90			14	14.40							
20	1		QUAD UPPER LEFT - RM A101	0.36	15		14.76		16	14.40	EXISTING PANEL S (AT 60% DEMAND)			3	200		
20	1		QUAD LOWER LEFT - RM A101	0.36	17		14.76		18	14.40							
20	1		QUAD UPPER RIGHT - RM A101	0.36	19	0.36			20	0.00	SPARE			1	20		
20	1		QUAD LOWER RIGHT - RM A101	0.36	21	0.36			22	0.00	SPARE			1	20		
20	1		SPARE	0.00	23		0.00	24	0.00	SPARE			1	20			
20	1		SPARE	0.00	25	0.00			26	0.00	SPARE			1	20		
20	1		SPARE	0.00	27		0.00		28	0.00	SPARE			1	20		
20	1		SPARE	0.00	29		0.00	30	0.00	SPARE			1	20			
20	1		SPARE	0.00	31	0.00			32	0.00	SPARE			1	20		
20	1		SPARE	0.00	33	0.00		34	0.00	SPARE			1	20			
20	1		SPARE	0.00	35		0.00	36	0.00	SPARE			1	20			
20	1		SPARE	0.00	37	25.24			38	25.24							
20	1		SPARE	0.00	39		24.44		40	24.44	NEW LRPC-A202			3	250		
20	1		SPARE	0.00	41		24.44	42	24.44								
* SHUNT TRIP BREAKER				PHASE TOTAL				42.66	41.32	40.06	KVA						
** GROUND FAULT CIRCUIT INTERRUPTER BREAKER												TOTAL CONNECTED LOAD		124.94	KVA	347	A
*** ARC FAULT CIRCUIT INTERRUPTER BREAKER												TOTAL DEMAND LOAD		124.94	KVA	347	A

PANEL SCHEDULE: PANEL 'LP1-A202' (NEW)

PANEL NAME			LOCATION:				VOLTAGE		208Y/120V		3 PHASE		MOUNTING / ENCLOSURE:		SURFACE / NEMA				
PANEL 'LRCP-A202' (NEW)			MECHANICAL MEZZANINE A202				250A MCB								NOTES: SENSORS Q48 PANEL				
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION		KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION		TYPE	POLES	AMPS			
20	1		FOH CATWALK 1		1.92	1	3.84			2	1.92	FOH CATWALK 2			1	20			
20	1		FOH CATWALK 1		1.92	3		3.84		4	1.92	FOH CATWALK 2			1	20			
20	1		FOH CATWALK 1		1.92	5			3.84	6	1.92	FOH CATWALK 2			1	20			
20	1		FOH CATWALK 1		1.92	7	3.84			8	1.92	FOH CATWALK 2			1	20			
20	1		FOH CATWALK 1		1.92	9		3.84		10	1.92	FOH CATWALK 2			1	20			
20	1		FOH CATWALK 1		1.92	11			3.84	12	1.92	FOH CATWALK 2			1	20			
20	1		APRON PIPES (APRON 1)		1.92	13	3.84			14	1.92	APRON PIPES (APRON 2)			1	20			
20	1		APRON PIPES (APRON 1)		1.92	15		3.84		16	1.92	APRON PIPES (APRON 2)			1	20			
20	1		APRON PIPES (APRON 1)		1.92	17			3.84	18	1.92	APRON PIPES (APRON 2)			1	20			
20	1		1ST ELECT		1.92	19	3.84			20	1.92	2ND ELECT			1	20			
20	1		1ST ELECT		1.92	21		3.84		22	1.92	2ND ELECT			1	20			
20	1		1ST ELECT		1.92	23			3.84	24	1.92	2ND ELECT			1	20			
20	1		1ST ELECT		1.92	25	3.84			26	1.92	2ND ELECT			1	20			
20	1		1ST ELECT		1.92	27		3.84		28	1.92	2ND ELECT			1	20			
20	1		1ST ELECT		1.92	29			3.84	30	1.92	2ND ELECT			1	20			
20	1		1RD ELECT		1.92	31	2.72			32	0.80	(HOUSE) LTG			1	20			
20	1		1RD ELECT		1.92	33		3.32		34	1.40	(HOUSE) LTG			1	20			
20	1		1RD ELECT		1.92	35			3.32	36	1.40	(HOUSE) LTG			1	20			
20	1		1RD ELECT		1.92	37	3.32		1.92	38	1.40	(HOUSE) LTG			1	20			
20	1		1RD ELECT		1.92	39				40	0.00	SPARE			1	20			
20	1		1RD ELECT		1.92	41			1.92	42	0.00	SPARE			1	20			
20	1		SPARE			43				44		SPARE			1	20			
20	1		SPARE			45				46		SPARE			1	20			
20	1		SPARE			47				48		SPARE			1	20			
* SHUNT TRIP BREAKER					PHASE TOTAL					25.24	24.44	24.44	KVA						
** GROUND FAULT CIRCUIT INTERRUPTER BREAKER															TOTAL CONNECTED LOAD		74.12	KVA	208
*** ARC FAULT CIRCUIT INTERRUPTER BREAKER															TOTAL DEMAND LOAD		74.12	KVA	208

PANEL SCHEDULE: PANEL 'LP1-A202' (NEW)

Revisions

REV 1 WALK-THROUGH UPDATES  
REV 2 ADDENDA 1



02-14-2024

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DURHAM PUBLIC SCHOOLS  
RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES  
DURHAM, NC

Date: 02-14-2024

Not for Construction

Design Development

Construction Drawings

Revisions

Sheet Name  
ELECTRICAL  
DETAILS, SCHEDULES  
AND RISER DIAGRAM  
Sheet Number  
E-601



# Revisions

REV 1 WALK-THROUGH UPDATES
REV 2 ADDENDA 1



2-14-2024

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**RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES**  
DURHAM, NC

Date: 02-14-2024

Not for Construction

## Design Development

## Construction Drawings

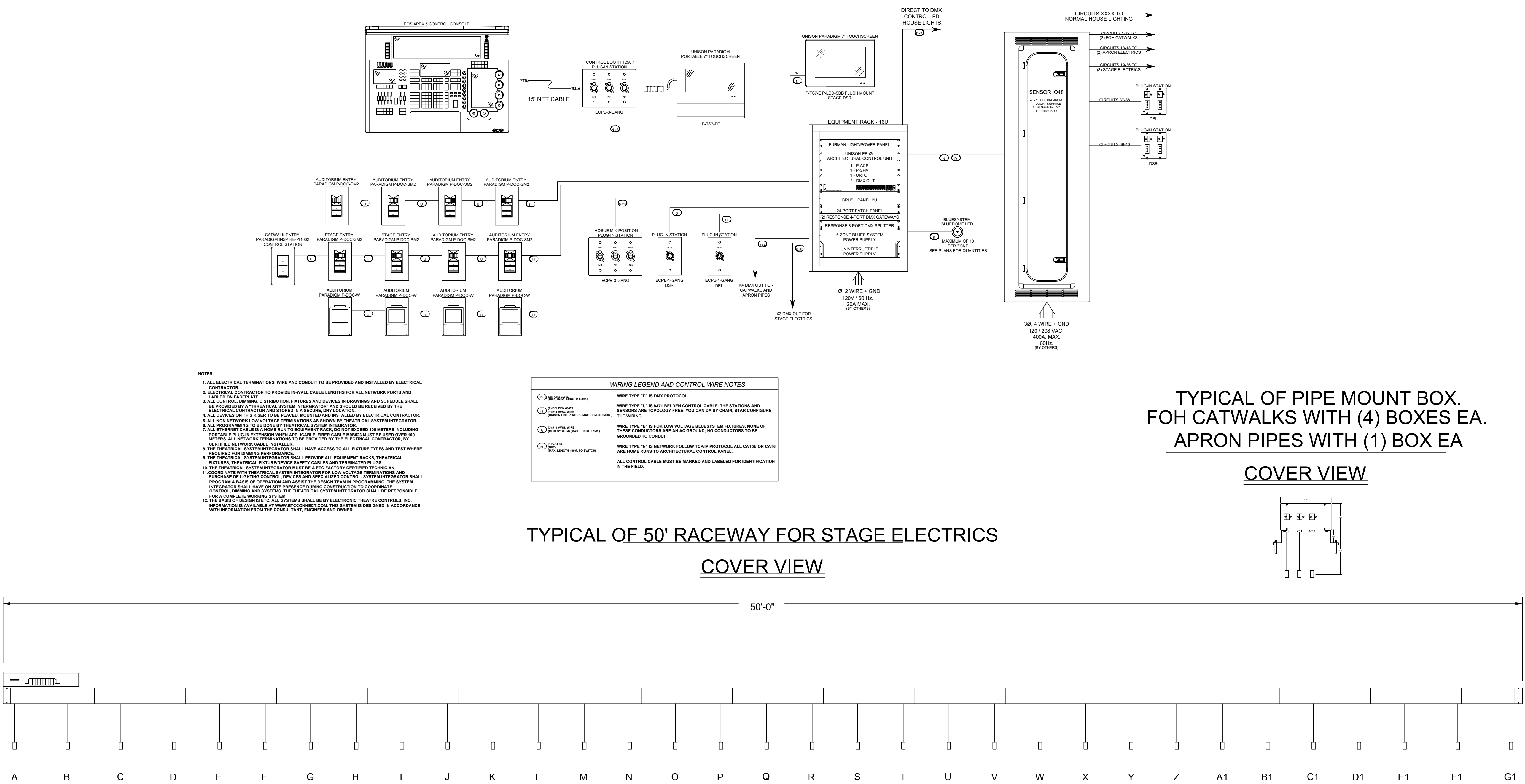
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Sheet Name

## ELECTRICAL REFERENCE DRAWINGS

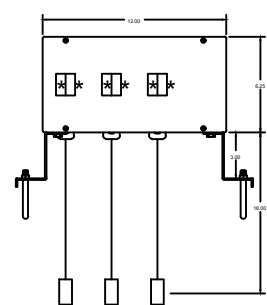
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# RF-101



TYPICAL OF PIPE MOUNT BOX.  
FOH CATWALKS WITH (4) BOXES EA.  
APRON PIPES WITH (1) BOX EA

## COVER VIEW



SESCO  
LIGHTING

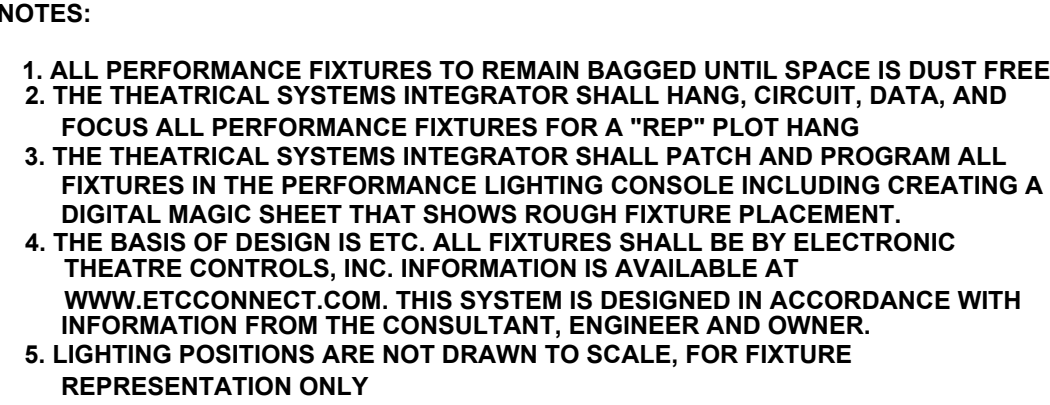
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Tel: (984) 206-2164

[www.sescolighting.com](http://www.sescolighting.com)

DESCRIPTION:  
THEATRICAL  
LIGHTING  
CONTROL RISER

PAGE:





PROJECT: RIVERSIDE HS
ADDRESS:
ARCHITECT:
ENGINEER:
DESIGNER:
INTEGRATOR:

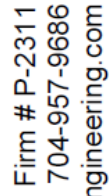


**SESCO LIGHTING**  
7500 Six Forks Road  
Suite 101  
Raleigh, NC 27615  
Tel: (984) 206-2164  
[www.sescolighting.com](http://www.sescolighting.com)

DESCRIPTION:  
THEATRICAL  
LIGHT PLOT

PAGE:

02-14-2024



Victoria Watlington  
1324 Bethel Rd  
Charlotte, NC 28208

**DURHAM PUBLIC SCHOOLS**  
**RIVERSIDE HIGH SCHOOL AUDITORIUM UPGRADES**  
DURHAM, NC

Date: 02-14-2024

Not for Construction

## Design Development

## Construction Drawings

## Revisions

**X**

Sheet Name

## ELECTRICAL REFERENCE DRAWINGS

Sheet Number

# RF-102