

GAYLORD COMMUNITY SCHOOLS PROJECT SF3.12

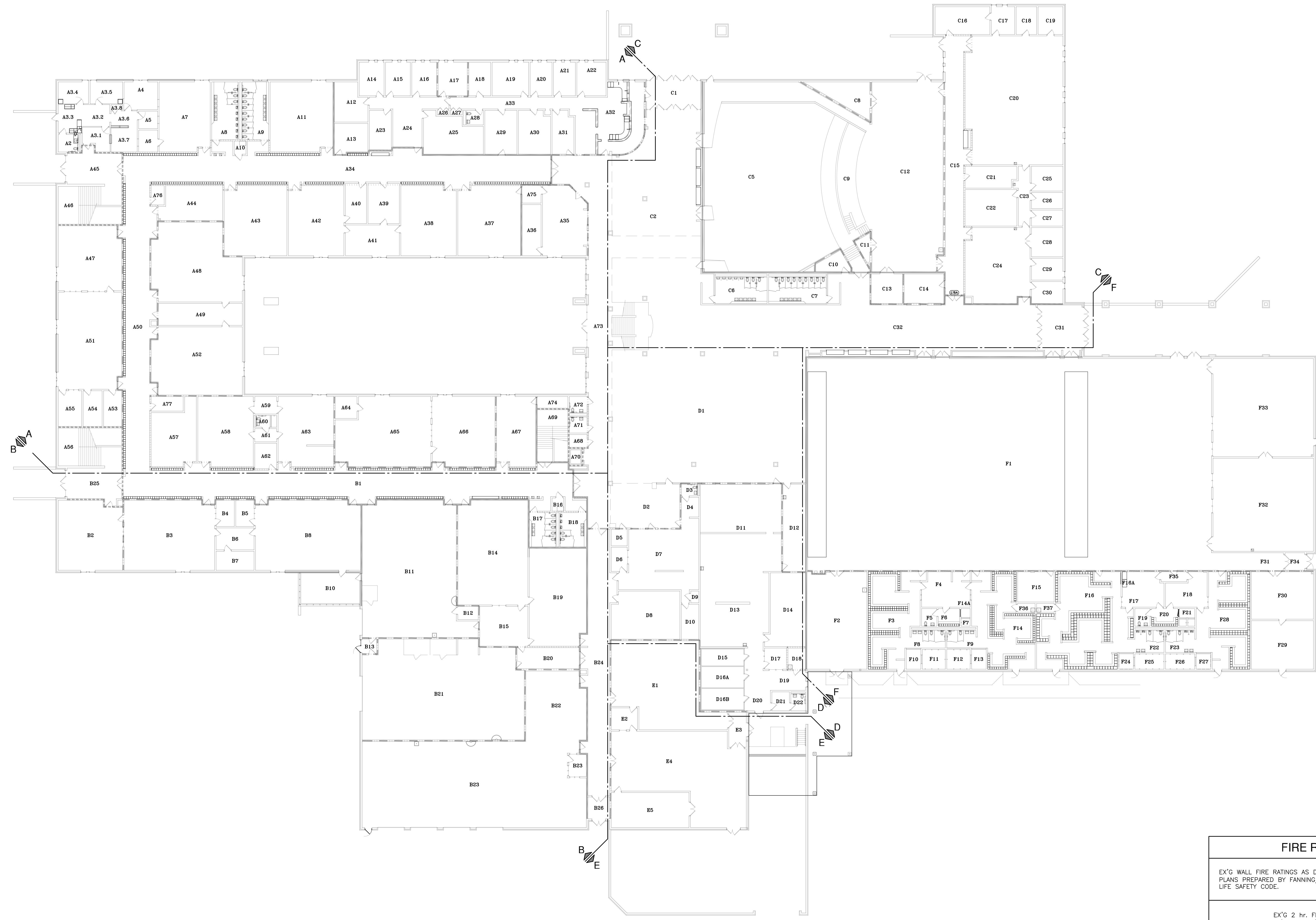
GHS AUDITORIUM LIGHTING UPGRADES

90 LIVINGSTON BLVD., GAYLORD, MI 49735

WORK DESCRIPTION
WORK OF THE CONTRACT INCLUDES REPLACEMENT OF EXISTING HOUSE LIGHTING, THEATRICAL LIGHTING, CONTROLS, AND ASSOCIATED ELECTRICAL WORK.

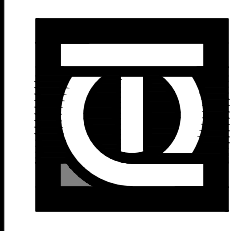
CODE DATA
APPLICABLE CODES: 2021 MICHIGAN BUILDING CODE 2021 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2023 MICHIGAN ELECTRIC CODE AND (NEC BY REFERENCE) 2012 LIFE SAFETY CODE BUILDING USE GROUP: EXISTING E – EDUCATION CONSTRUCTION TYPE: 2021 MBC TYPE IIB NFPA TYPE II(000) BUILDING PROTECTION: FIRE SPRINKLER SYSTEM THROUGHOUT FIRE ALARM SYSTEM THROUGHOUT BUILDING AREA: LOWER LEVEL 151,745 sf UPPER LEVEL 61,263 sf

SHEET INDEX
T TITLE SHEET / PROJECT INFORMATION A0.1 OVERALL FLOOR PLAN – LOWER LEVEL / WALL ASSEMBLY FIRE RATINGS A0.2 OVERALL FLOOR PLAN – UPPER LEVEL / WALL ASSEMBLY FIRE RATINGS ET ELECTRICAL TITLE SHEET E1.1 ELECTRICAL DEMOLITION PLAN – UNIT C E1.2 ELECTRICAL DEMOLITION PLAN – UNIT K E2.1 ELECTRICAL NEW WORK PLAN – UNIT C E2.2 ELECTRICAL NEW WORK PLAN – UNIT K E2.3 ELECTRICAL STAGE LIGHTING NEW WORK PLAN – UNIT K E3.1 ELECTRICAL DETAILS E3.2 ELECTRICAL DETAILS



OVERALL FLOOR PLAN - LOWER LEVEL
SCALE: 1" = 20'-0"

FIRE RATING LEGEND	
EX'G WALL FIRE RATINGS AS DESIGNATED ON ORIGINAL CONSTRUCTION PLANS PREPARED BY FANNING/HOWEY ASSOCIATES, INC. BASED ON 1985 LIFE SAFETY CODE.	
	EX'G 2 hr. FIRE RATED SEPARATION WALL/SMOKE BARRIER w/ 90 MIN. "B" LABEL DOOR, FRAME, AND COMBINATION FIRE/SMOKE DAMPERS
	EX'G 1 hr. FIRE RATED FIRE/SMOKE BARRIER w/ 60 MIN. "B" LABEL DOOR, FRAME, AND SMOKE DAMPER ONLY
	EX'G 1 hr. FIRE RATED FIRE/SMOKE BARRIER w/ 45 MIN. DOOR, WIROE GLASS, FRAME, AND SMOKE DAMPERS
	EX'G 1/2 hr. FIRE RATED FIRE BARRIER 1 3/4" SOLID BOND WOOD CORE DOORS (DAMPERS AND CLOSERS NOT REQUIRED)
	EX'G SMOKE BARRIER - EXTEND TO UNDERSIDE OF ROOF OR FLOOR DECK ABOVE



GENERAL ELECTRICAL DEMOLITION NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THIS ELECTRICAL/HOUSE&STAGE LIGHTING WORK IS DIVIDED INTO BID CATEGORIES.
 - BID CATEGORY #16: INCLUDES ALL DIVISION 260000 – ELECTRICAL SPECIFICATIONS WORK, OTHER THAN BID CATEGORY #16.3 – THEATRICAL STAGE LIGHTING/CONTROLS WORK, SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR (E.C.) INCLUDING DEMOLITION & NEW WORK FOR STAGE LIGHTING POWER & BOX/CONDUIT ROUGH-INS.
 - BID CATEGORY #16.3: INCLUDES DIVISION 265561 – THEATRICAL STAGE LIGHTING & CONTROLS WORK TO BE COMPLETED BY THE STAGE LIGHTING CONTRACTOR (S.L.C.).
- CONTRACTORS SHALL VISIT THE PROJECT SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING THEIR BID. ALL EXISTING PANEL/WIRE/LIGHT SIZES AND ROUTINGS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY E.C./S.L.C.
- ALL ELECTRICAL/LIGHTING ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, WIRES, CONDUITS, SUPPORTS, FIXTURES, LAMPS, ETC...REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE. E.C. SHALL PATCH ANY FASTENER HOLES REMAINING IN EXPOSED TO VIEW, FINISH SURFACES AFTER CONDUIT REMOVAL WITH PAINTABLE LATEX SEALANT.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER’S REPRESENTATIVE, AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTORS SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED (SPECIALTY LIGHTING, CONTROLS, OWNER’S IT GROUP, ETC.).
- DEVICE REMOVAL: AT ALL LOCATIONS WHERE (E) DEVICES (E.G. SWITCHES/DIMMERS, RECEPTACLES, ETC.) BEING REMOVED ARE RECESSED CONCEALED IN CONSTRUCTION – INSTALL STAINLESS STEEL BLANK COVER PLATES. AT ALL LOCATIONS WHERE (E) DEVICES/CONDUIT BEING REMOVED ARE SURFACE MOUNTED/EXPOSED, ALL EMPTY BOXES, RACEWAYS, SUPPORTS, ETC...SHALL BE REMOVED IN ACCORDANCE WITH GENERAL DEMOLITION NOTE 4 ABOVE.

GENERAL ELECTRICAL NEW WORK NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE CONTRACTORS SHALL PROVIDE AND INSTALL ALL MATERIALS (E.G. CONDUIT, WIRE, PULL BOXES, FIXTURES, DEVICES, ETC.) REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- THIS ELECTRICAL/HOUSE&STAGE LIGHTING WORK IS DIVIDED INTO BID CATEGORIES.
 - BID CATEGORY #16: INCLUDES ALL DIVISION 260000 – ELECTRICAL SPECIFICATIONS WORK, OTHER THAN BID CATEGORY #16.3 – THEATRICAL STAGE LIGHTING/CONTROLS WORK, SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR (E.C.) INCLUDING DEMOLITION & NEW WORK FOR STAGE LIGHTING POWER & BOX/CONDUIT ROUGH-INS.
 - BID CATEGORY #16.3: INCLUDES DIVISION 265561 – THEATRICAL STAGE LIGHTING & CONTROLS WORK TO BE COMPLETED BY THE STAGE LIGHTING CONTRACTOR (S.L.C.). NOTE THAT ALL DIVISION 265561–STAGE LIGHTING CONTRACTOR (S.L.C.) WORK SHALL ADHERE TO SPECIFICATION 265561 REQUIREMENTS, AS WELL AS ALL DIVISION 26 SPECIFICATION REQUIREMENTS, FOR ELECTRICAL INSTALLATION WORK OF THE STAGE LIGHTING EQUIPMENT/CONTROLS.
 - NOTE THAT ANY SPEC. DIVISION 27 CABLEING WORK FOR ANY NEW IT–NETWORK/ETHERNET CABLEING WILL BE COMPLETED BY OWNER’S CABLEING SUBCONTRACTOR. E.C. & S.L.C. SHALL COORDINATE/PROVIDE ANY BOX/CONDUIT ROUGH-INS NEEDED WITH OWNER’S IT DEPARTMENT PRIOR TO ROUGH-IN.
- ALL ELECTRICAL/LIGHTING SYSTEMS SHALL BE PROVIDED/INSTALLED TO MEET THEN CURRENT APPLICABLE BUILDING CODES: MICHIGAN BUILDING CODE, MICHIGAN ELECTRICAL CODE, N.E.C., ETC.
- VERIFY REQUIREMENTS OF ALL STAGE LIGHTING EQUIPMENT/ARCHITECTURAL EQUIPMENT WITH EQUIPMENT SHOP DRAWING SUBMITTALS PRIOR TO INSTALLATION. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS BETWEEN SHOP DRAWINGS AND PLANS.
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL RECEPTACLES, DUAL PORT CAT.6 OUTLETS, ETC...NEEDED FOR NEW LIGHT FIXTURES WITH LOCATIONS/HEIGHTS OF FURNITURE, CABINETS, SUPPLEMENTARY SUPPORT STEEL, ETC. & ALSO WITH THE S.L.C. FOR EXACT LOCATIONS OF NEW RECEPTACLES/OUTLETS NEEDED FOR NEW STAGE LIGHTING.
- PROVIDE/INSTALL ALL MISCELLANEOUS STEEL, STRUT, HANGERS, ETC. REQUIRED TO SUPPORT/HANG ELEC. EQUIPMENT, FIXTURES, CONDUIT, BOXES, ETC. NOTE: WHERE HANGING EQUIPMENT/FIXTURES FROM STEEL JOISTS – ATTACH STRUT TO TOP CHORD OR BOTTOM CHORD AT PANEL POINTS OF JOIST, OR PROVIDE SUPPLEMENTAL WEB FRAMING IN ACCORDANCE WITH JOIST MANUFACTURERS RECOMMENDATIONS.
- COORDINATE THE INSTALLATION OF ALL ELECTRICAL/LIGHTING WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY ALL ELECTRICAL CLEARANCES PRIOR TO FABRICATION OF ANY NEW WORK. ELECTRICAL EQUIPMENT, WIRING, ETC. SHALL NOT INTERFERE WITH OTHER EQUIPMENT CLEARANCE SPACES.
- ALL NEW CIRCUITS FOR NEW POWER, NEW LIGHTING, NEW CONTROLS, ETC. SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. ALL CIRCUITS SHALL BE CONCEALED/FISHED WITHIN WALLS, INCLUDING (E) WALLS. SURFACE MOUNTED RACEWAY (CONDUIT PER SPECS) MAY BE USED WHERE WALLS CANNOT BE FISHED & APPROVAL FROM ARCHITECT/OWNER MUST BE OBTAINED PRIOR TO USING SURFACE MOUNTED CONDUIT.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL NEW PENETRATIONS THROUGH ALL WALLS WITH FIRE CAULK IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS. NOTE THAT ALL CORRIDOR WALLS AND WALLS FOR ROOMS C10/C11 ARE 2–HR FIRE RATED.
- COORDINATE EXACT STAGE FIXTURE LOCATIONS WITH SPECIALTY STAGE LIGHTING CONSULTANT.
- ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL ROUGH-INS (E.G. BOXES, CONDUIT, ETC.) FOR ALL AUXILIARY ELECTRICAL SYSTEMS (I.E. STAGE & HOUSE LIGHTING CONTROLS, NEW TELECOM/NETWORK, ETC.). COORDINATE REQUIREMENTS WITH AUXILIARY ELECTRICAL SUB-CONTRACTORS & OWNER’S IT GROUP PRIOR TO ISSUE OF BID AND VERIFY ALL WORK REQUIRED PRIOR TO ROUGH-IN. ALL CONDUIT ROUGH-INS SHALL TERMINATE AT ACCESSIBLE LOCATIONS (I.E. ABOVE LAY-IN CEILINGS, UP IN JOIST SPACE, AT IT CLOSETS, AT LIGHTING CONTROL CLOSETS/ROOMS, ETC.). NOTE: CONDUIT INSTALLED WITHIN JOIST SPACE IN EXPOSED LOCATIONS SHALL BE INSTALLED ALONG TOP CHORD OF JOIST.
- IDENTIFY CIRCUIT #S (E.G. “CS–14”) AT ALL WIRING DEVICES (E.G. RECEPTACLES, SWITCHES, DIMMERS, ETC.) WITH A SELF–ADHESIVE LABEL STUCK TO THE FRONT OF THE DEVICE COVER PLATE.

ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COORD	COORDINATE
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EML	EMERGENCY LIGHT
EMT	ELECTRICAL METALLIC TUBING
(F)	FUTURE
FLA	FULL LOAD AMPS
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GBB	GROUND BUSS BAR
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HP	HORSEPOWER
HZ	HERTZ
I.D.	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILO VOLT–AMPERES
KW	KILOWATT
KWH	KILOWATT–HOURS
LC	LIGHTING CONTROLLER
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MFS	MAX FUSE SIZE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NORMALLY CLOSED
N.E.C.	NATIONAL ELECTRIC CODE
NF	NON–FUSIBLE
NI	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P–A	PANEL “A”
PB	PUSHBUTTON STATION
PRI	PRIOR TO ROUGH–IN
(R)	RELOCATED
RECEPT	RECEPTACLE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
S.L.C.	STAGE LIGHTING CONTRACTOR
SW	SWITCH
SWBD	SWITCHBOARD
T–CL	TRANSFORMER “CL”
TELECOM	TELECOMMUNICATIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WG	WIRE GUARD

GAYLORD HIGH SCHOOL AUDITORIUM LIGHTING UPGRADE PROJECT DESCRIPTION & GENERAL SCOPES OF WORK FOR BID CATEGORY #16 = DIVISION 260000 ELECTRICAL CONTRACTOR (E.C.) & BID CATEGORY #16.3 = SPECIFICATION 265561 STAGE LIGHTING CONTRACTOR (S.L.C.)

- AUDITORIUM HOUSE LIGHTING IMPROVEMENTS – NOTE THAT ALL HOUSE LIGHTING IMPROVEMENT WORK WILL BE PROVIDED & INSTALLED BY THIS ELECTRICAL CONTRACTOR (E.C.) INCLUDING, BUT NOT LIMITED TO:
 - REMOVE (31)–OLD PENDANTS (500W QUARTZ), PROVIDE/INSTALL (31)–NEW LED PENDANTS IN SAME LOCATION & RECONNECT TO EXISTING CIRCUITS.
 - REMOVE OLD HOUSE DIMMER (IN C11) & PROVIDE/INSTALL NEW HOUSE DIMMER RACK (HD–N) IN SAME LOCATION, RECONNECT EXISTING CIRCUITS.
 - REMOVE & REPLACE HOUSE LIGHTING CONTROLS, CONTROL STATIONS, CONTROL WIRING, ETC..TO PROVIDE A FULLY FUNCTIONAL HOUSE LIGHTING SYSTEM.
 - THE HOUSE LIGHTING EQUIPMENT SUPPLIER, AND THE S.L.C., SHALL PROVIDE ASSISTANCE TO E.C. FOR ON THE JOB–SITE STARTUP, COMMISSIONING, & OWNER TRAINING OF THE NEW HOUSE LIGHTING FIXTURES, CONTROLS, ETC.
- AUDITORIUM STAGE LIGHTING IMPROVEMENTS – NOTE THAT ALL NEW STAGE LIGHTING IMPROVEMENT WORK WILL BE PROVIDED & INSTALLED BY THE STAGE LIGHTING CONTRACTOR (S.L.C.) IN ACCORDANCE WITH SPECIFICATION SECTION 265561 – STAGE LIGHTING EQUIPMENT AND CONTROLS (INCLUDING BUT NOT NECESSARILY LIMITED TO: NEW STAGE LIGHTING CONTROL CONSOLE; 4 ROWS OF NEW STAGE LIGHT FIXTURES; STAGE LIGHTING DMX DISTRIBUTION; SOFT DMX CONTROL & POWER CABLEING FOR THE STAGE LIGHTS) EXCEPT FOR THE FOLLOWING WORK TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR (E.C.):
 - ELECTRICAL CONTRACTOR (E.C.) WORK:
 - E.C. SHALL PROVIDE DEMO OF EXISTING STAGE LIGHTING DIMMER RACK & ALL POWER CIRCUITS/CONTROLS/ETC. FROM OLD STAGE LIGHTING DIMMER RACK OUT TO ALL THE OLD STAGE LIGHTS BEING REMOVED/REPLACED BY S.L.C. DISCONNECT 200A FEEDER & RECONNECT TO NEW SUB–PANEL CS (BY E.C.).
 - E.C. SHALL PROVIDE NEW POWER FOR NEW STAGE LIGHTING VIA NEW PANEL P–CS & NEW RECEPTACLES/CIRCUITS FOR NEW STAGE LIGHT FIXTURES (BY S.L.C.). E.C. SHALL READ SPEC. SECTION 265561 TO FAMILIARIZE THEMSELVES WITH S.L.C.’S SCOPE OF WORK AND E.C.’S SCOPE OF WORK FOR THE STAGE LIGHTING FIXTURES POWER & CONTROLS.
 - ALTHOUGH ALL NEW STAGE LIGHT FIXTURES & CONTROLS SHALL BE PROVIDED & INSTALLED BY THE STAGE LIGHTING CONTRACTOR (S.L.C.) IN ACCORDANCE WITH SPECIFICATION SECTION 265561 – STAGE LIGHTING EQUIPMENT AND CONTROLS, NOTE THAT E.C. SHALL PROVIDE ALL BOX/CONDUIT ROUGH–INS FOR THE S.L.C. AND SHALL COORDINATE LOCATIONS/OTYS/SIZES WITH THE S.L.C. AND ALSO THE OWNER’S STAGE LIGHTING CONSULTANT (NICK REICHERT @ 989–619–1350 & NICK.R.REICHERT@GMAIL.COM) FOR EXACT LOCATIONS OF POWER RECEPTS. & ETHERNET PORTS FOR ALL THE NEW STAGE LIGHTING FIXTURES/CONTROLS.
 - THE STAGE LIGHTING EQUIPMENT SUPPLIER, AND THE S.L.C., SHALL PROVIDE ASSISTANCE TO OWNER FOR ON THE JOB–SITE STARTUP, COMMISSIONING, & OWNER TRAINING OF THE NEW STAGE LIGHTING FIXTURES/CONTROLS & THE NEW HOUSE LIGHTING FIXTURES/CONTROLS FOR A FULLY FUNCTIONING HOUSE/STAGE LIGHTING SYSTEM.
- ROUGH–IN OF BOXES & CONDUIT BY E.C. FOR CONTROL/NETWORK CABLEING OTHERS (S.L.C. OR OWNER’S NETWORK CABLE SUB) –
 - ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE/INSTALL ALL BOX & CONDUIT ROUGH–INS FOR:
 - ALL NEW HOUSE LIGHTING CONTROLS, TO BE PROVIDED/INSTALLED BY E.C.
 - ALL NEW STAGE LIGHTING CONTROLS, TO BE PROVIDED/INSTALLED BY S.L.C., COORDINATE/CONFIRM WITH OWNER’S STAGE LIGHTING CONSULTANT (NICK REICHERT @ 989–619–1350 & NICK.R.REICHERT@GMAIL.COM) PRIOR TO ROUGH–IN.
 - ALL NEW NETWORK ETHERNET CABLEING, TO BE PULLED BY OWNER’S DIRECT HIRE NETWORK CABLE SUBCONTRACTOR. COORDINATE REQUIREMENTS WITH OWNER’S IT DEPARTMENT (TODD OOSTMEYER @ 989–705–3032, OOSTMEYERT@GAYLORD.K12.MI.US) PRIOR TO ROUGH–IN.

BRANCH CIRCUIT WIRE SIZE/LENGTH SCHEDULE							
MAX BRANCH CIRCUIT (AMPS)	MAX CIRCUIT LENGTH (FEET) TO LAST CONNECTION IN THE CIRCUIT						
	50	75	100	125	150	300	
15	#12	#10	#10	#8	#6	#4	
20	#10	#10	#8	#6	#6	#3	
30	#8	#8	#6	#4	#4	#1	

- NOTES:
- REFER TO SPECIFICATIONS FOR WIRE TYPE.
 - SCHEDULE IS BASED UPON A MAX 3% VOLTAGE DROP ON 115–120V/1Ø CIRCUITS.
 - FOR LENGTHS BETWEEN TABLED VALUES – USE LONGER LENGTH.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
(FA)	FIXTURE TYPE
	RECESSED LIGHT FIXTURE (2x4)
	RECESSED EMERGENCY LIGHT FIXTURE (2x4)
	SURFACE MOUNTED LIGHT FIXTURE (2x4)
	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE (2x4)
	RECESSED LIGHT FIXTURE (2x2)
	RECESSED EMERGENCY LIGHT FIXTURE (2x2)
	SURFACE MOUNTED LIGHT FIXTURE (2x2)
	SURFACE MOUNTED EMERGENCY LIGHT FIXTURE (2x2)
	PENDANT OR SURFACE MOUNTED LIGHT FIXTURE
	PENDANT OR SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
	DOWNLIGHT LIGHTING FIXTURE
	DOWNLIGHT EMERGENCY LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	CEILING MOUNTED LIGHTING FIXTURE
	PENDANT LIGHTING FIXTURE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTING FIXTURE WITH EMERGENCY EGRESS LIGHTING AND BATTERY
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS – SHADED AREA INDICATES FACE
	EXIT LIGHTING FIXTURE – WALL MOUNTED
	REMOTE EMERGENCY EXIT DISCHARGE LIGHT
S	SINGLE POLE TOGGLE SWITCH
S ₂	TWO POLE TOGGLE SWITCH
S ₃	3–WAY TOGGLE SWITCH
S ₄	4–WAY TOGGLE SWITCH

SYMBOL	DESCRIPTION
	JUNCTION BOX
	CONDUIT UP
	CONDUIT DOWN
	COMBINATION TELE/DATA OUTLET – ROUGH–IN ONLY, NO CABLE DROP
	COMBINATION TELE/DATA OUTLET – 2 CABLE DROPS
	COMBINATION TELE/DATA OUTLET – 4 CABLE DROPS
	COMBINATION TELE/DATA OUTLET MOUNTED 6" ABOVE COUNTERTOP – ROUGH–IN ONLY NO CABLE DROPS
	COMBINATION TELE/DATA OUTLET MOUNTED 6" ABOVE COUNTERTOP – 2 CABLE DROPS
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED AT 48" ABOVE FLOOR (UNLESS NOTED OTHERWISE) – SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GFI RECEPTACLES
	48"
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE EMERGENCY POWER
	DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTER
	DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTER – MOUNTED 6" ABOVE COUNTERTOP OR AS REQUIRED TO ACCOMMODATE COUNTERS – REFER TO ARCHITECTURAL ELEVATIONS
	DUPLEX RECEPTACLE ISOLATED GROUND
	QUAD RECEPTACLE ISOLATED GROUND
	SPECIAL RECEPTACLE – NEMA CONFIGURATION AS NOTED
	DMX NODE – DMX KING 4–PORT DMX NODE (PORTABLE OR PIPE MOUNT W/ CLAMPS)

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	SWITCH
	FUSE
	TRANSFORMER
	GROUND
	TRANSIENT VOLTAGE SURGE SUPPRESSION
	GROUND BUS BAR
	CIRCUIT HOMERUN TO PANEL “A” CIRCUIT #3
	LIGHTING PANEL (LP = <240V)
	POWER PANEL (PP = >480V)
	DISTRIBUTION PANEL
	TRANSFORMER
	UTILITY METER
	SPEAKER – CEILING MOUNTED
	SPEAKER – WALL MOUNTED
	MICROPHONE
	VOLUME CONTROL
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
	COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
	VARIABLE SPEED DRIVE COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
	NON–FUSABLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	HORSE POWER RATED SWITCH

STANDARD MOUNTING HEIGHTS

CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS, TELE/DATA AND COMMUNICATIONS OUTLETS, NOT OTHERWISE SPECIFIED:

- 18" AFF TO THE MIDDLE OF BOX
- 16" AFF TO BOTTOM OF BOX IN CMU WALLS

CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS ABOVE COUNTERS, NOT OTHERWISE SPECIFIED:

- 6" ABOVE COUNTER TO CENTER OF BOX OR AS REQUIRED TO ACCOMMODATE COUNTERS. (REFER TO ARCHITECTURAL ELEVATIONS.)

LIGHT SWITCHES AND LIGHTING CONTROL DEVICES, NOT OTHERWISE SPECIFIED:

- 48" AFF TO THE MIDDLE OF BOX
- 48" AFF TO THE TOP OF BOX IN CMU WALLS

LIGHTING AND RECEPTACLE BRANCH CIRCUIT PANELBOARDS AND LIGHTING CONTROLLERS:

- 6"–6" AFF TO TOP OF ENCLOSURE.

METHODS OF NOTATION

(FA)	LIGHT FIXTURE DESIGNATION (I.E. FIXTURE TYPE “FA” – SEE FIXTURE SCHEDULE)
(1)	CONSTRUCTION KEYED NOTE NUMBER
	DEMOLITION KEYED NOTE NUMBER
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	NEW SYSTEM COMPONENT
	EXISTING SYSTEM COMPONENT TO REMAIN
	POINT OF NEW CONNECTION
	CIRCUIT HOMERUN (BACK TO PANEL “CL” – REFER TO PANEL SCHEDULE)

ELECTRICAL DRAWING INDEX

ET ELECTRICAL TITLE SHEET

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E1.2 ELECTRICAL DEMOLITION PLAN – UNIT K

E2.1 ELECTRICAL NEW WORK PLAN – UNIT C
E2.2 ELECTRICAL NEW WORK PLAN – UNIT K
E2.3 ELECTRICAL STAGE LIGHTING NEW WORK PLAN – UNIT K

E3.1 ELECTRICAL DETAILS
E3.2 ELECTRICAL DETAILS

DRAWING TITLE

GAYLORD HIGH SCHOOL
GAYLORD, MICHIGAN
ELECTRICAL TITLE SHEET

PROJECT TITLE

GAYLORD COMMUNITY SCHOOLS - PROJECT SF3.12
GHS AUDITORIUM LIGHTING UPGRADES
GAYLORD, MICHIGAN

PROJECT NO.

284-20M

DATE

APRIL 30, 2026

SHEET

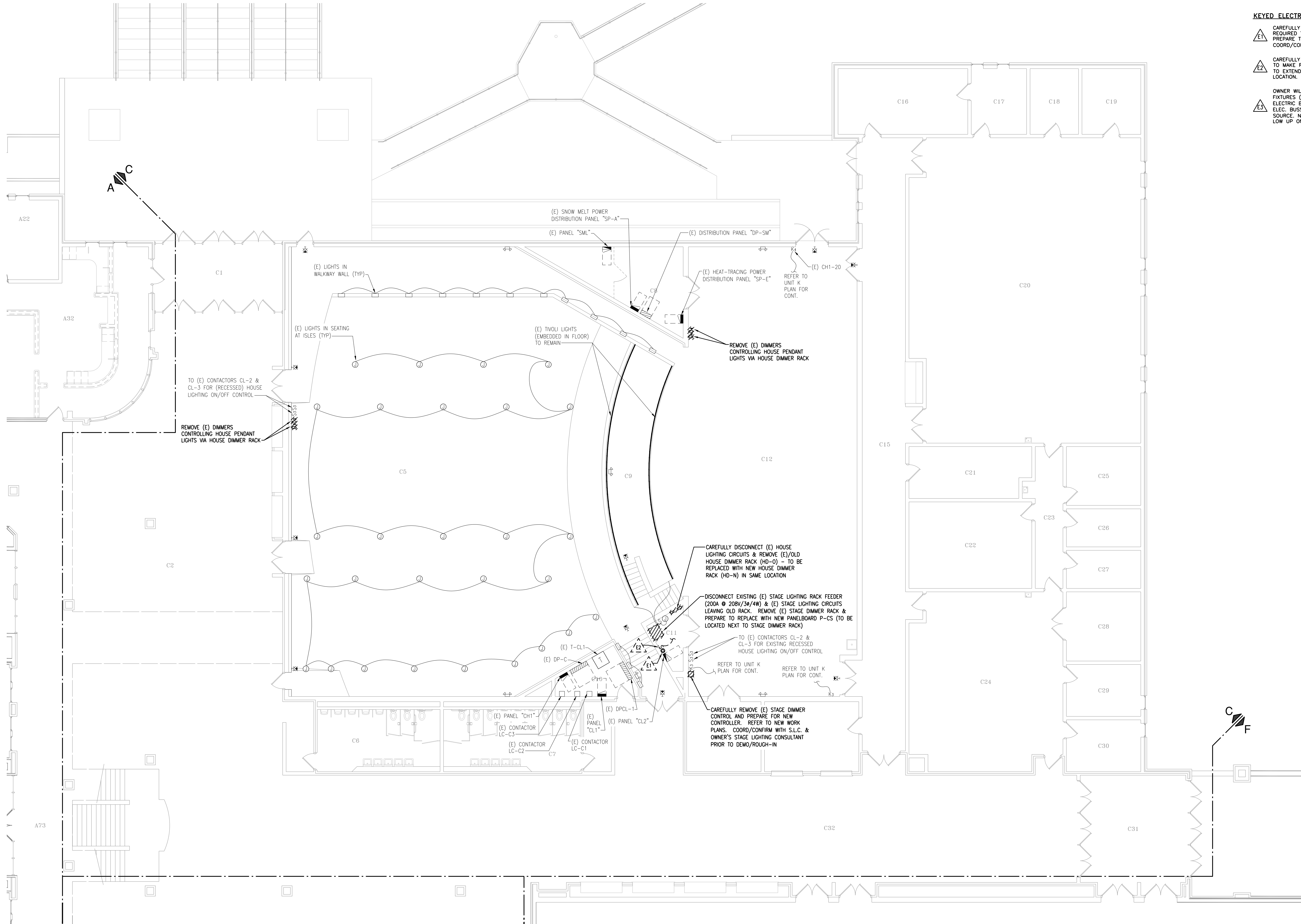
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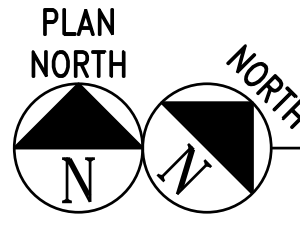
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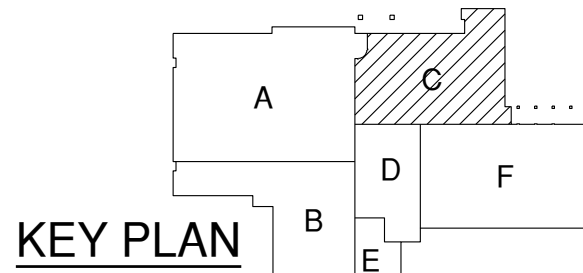
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- ROOM LEGEND - UNIT C**
- C1 VESTIBULE
 - C2 COMMONS
 - C5 AUDITORIUM
 - C6 MEN'S TOILET
 - C7 WOMEN'S TOILET
 - C8 STORAGE
 - C9 ORCHESTRA PIT
 - C10 STORAGE
 - C11 STORAGE
 - C12 STAGE
 - C13 STORAGE
 - C14 CONCESSIONS
 - C15 CORRIDOR
 - C16 LIBRARY/WORK AREA
 - C17 OFFICE
 - C18 INSTRUMENT REPAIR
 - C19 PERCUSSION STORAGE
 - C20 BAND
 - C21 UNIFORM STORAGE
 - C22 ENSEMBLE
 - C23 CORRIDOR
 - C24 CHORAL
 - C25 PRACTICE
 - C26 PRACTICE
 - C27 PRACTICE
 - C28 RISER STORAGE
 - C29 MUSIC LIBRARY
 - C30 OFFICE
 - C31 VESTIBULE
 - C32 CORRIDOR



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



KEYED ELECTRICAL DEMOLITION NOTES:

- E1** CAREFULLY REMOVE (E) 50A @ 208V/1Ø RECEPTACLE, AS REQUIRED TO MAKE ROOM FOR NEW PANEL CS, AND PREPARE TO RELOCATE IT TO A NEARBY LOCATION. COORD/CONFIRM LOCATION W/ OWNER PRI.
- E2** CAREFULLY REMOVE (E) EXHAUST FAN SWITCH, AS REQUIRED TO MAKE ROOM FOR NEW NEW PANEL P-CS, AND PREPARE TO EXTEND (E) CKT TO RELOCATED SWITCH AT A NEARBY LOCATION.
- E3** OWNER WILL DISCONNECT/REMOVE EXISTING STAGE LIGHT FIXTURES (NOT SHOWN) CURRENTLY PLUGGED INTO (E) ELECTRIC BUSWAYS. AFTERWARDS, E.C. SHALL REMOVE (E) ELEC. BUSWAYS, J-BOXES, & CONDUIT/WIRE BACK TO SOURCE. NOTE THESE (E) CONDUITS ARE LOCATED DOWN LOW UP ON THE CATWALK.

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JLK Engineering
Project Number:
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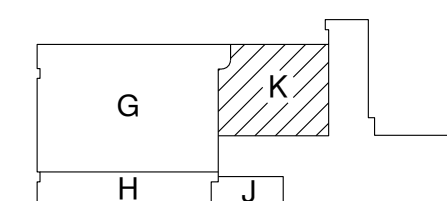
DRAWING TITLE
GAYLORD HIGH SCHOOL - UNIT C
ELECTRICAL DEMOLITION PLAN

PROJECT TITLE
GAYLORD COMMUNITY SCHOOLS - PROJECT SF3.12
GHS AUDITORIUM LIGHTING UPGRADES
GAYLORD, MICHIGAN

PROJECT NO.
284-20M

DATE
APRIL 30, 2026

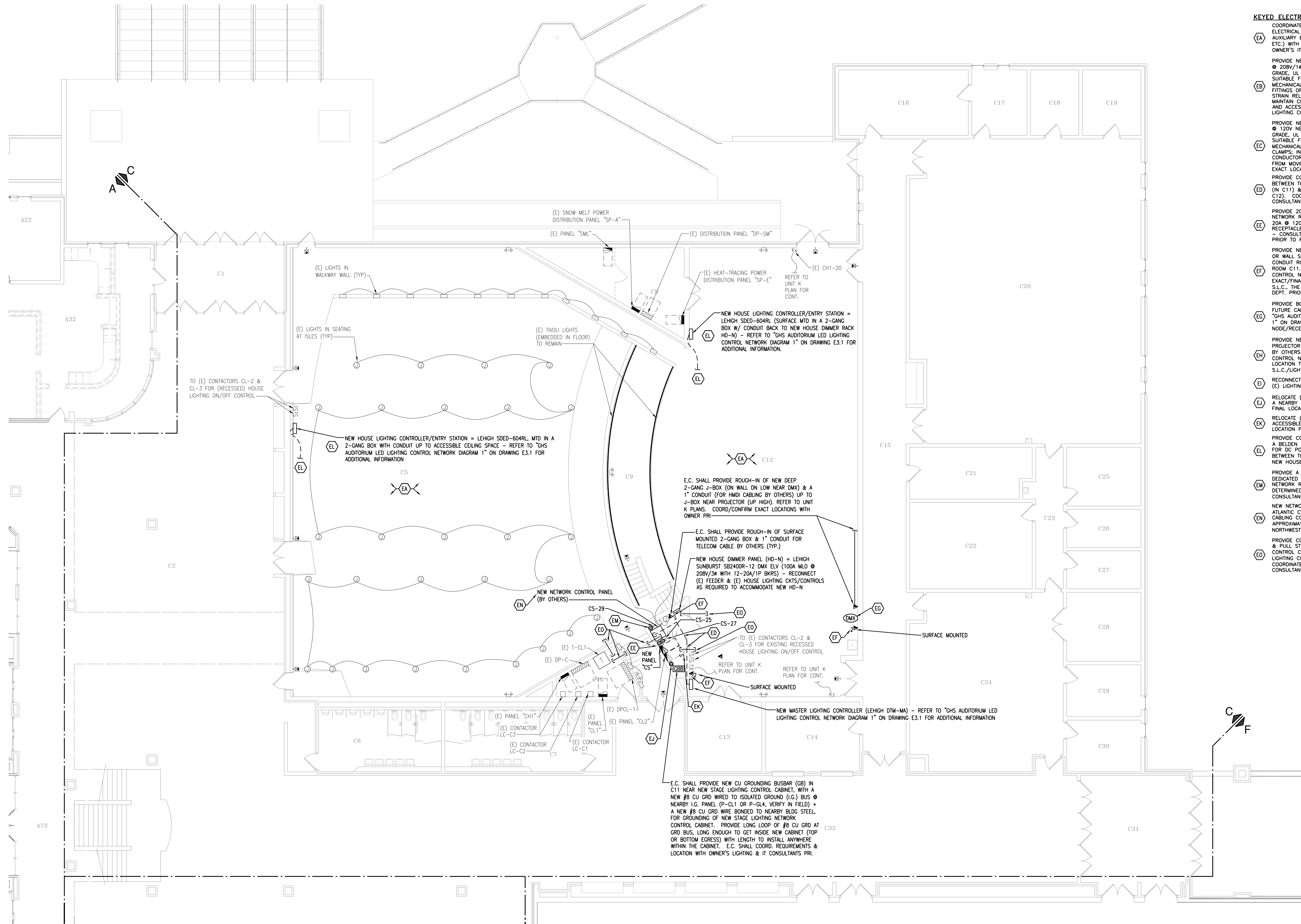
SHEET
E1.1



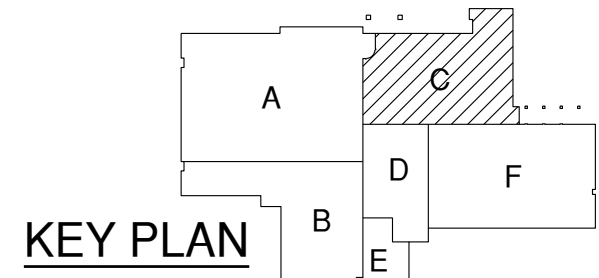
OWNER WILL DISCONNECT/REMOVE EXISTING STAGE LIGHT
FIXTURES (NOT SHOWN) CURRENTLY PLUGGED INTO (E)
ELECTRIC BUSSWAYS. AFTERWARDS, E.C. SHALL REMOVE (E)
ELEC. BUSSWAYS, J-BOXES, & CONDUIT/WIRE BACK TO
SOURCE. NOTE THESE (E) CONDUITS ARE LOCATED DOWN
LOW UP ON THE CATWALK.

E1.2	SHEET	DATE	PROJECT NO.
		APRIL 30, 2026	284-20M

J:\E:\Engineering\Projects\2024\GHS\GHS_Auditorium_Lighting_Upgrade\GHS_Auditorium_Lighting_Upgrade.dwg, Plot Date: 4/30/2026, Plot Time: 10:44:01 PM, 284-20M, 10:44:01 PM



PLAN NORTH
N
ELECTRICAL NEW WORK PLAN
SCALE: 1/8" = 1'-0"



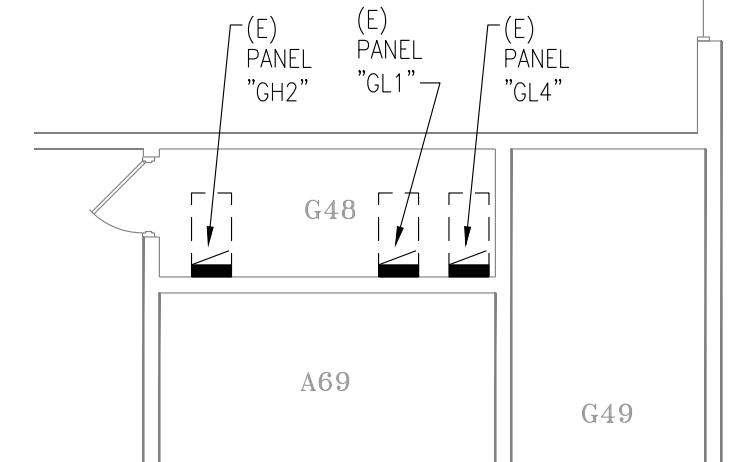
- KEYED ELECTRICAL NOTES:**
- (EA) COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES, LIGHTING, CONTROLS/SWITCHING, AND AUXILIARY ELECTRICAL DEVICES (I.E. TELECOM, AUDIO/VIDEO, ETC.) WITH S.L.C. OWNER'S LIGHTING CONSULTANT, & OWNER'S IT DEPT. PRIOR TO ROUGH-IN.
- (EB) PROVIDE NEW RECEPT. & CIRCUIT TO NEW PANEL "CS": 20A @ 208V/1Ø L6-2ØR TWIST-LOCK RECEPTACLE - INDUSTRIAL GRADE, UL LISTED FOR THEATRICAL/ENTERTAINMENT USE, SUITABLE FOR OVERHEAD MOUNTING LOCATIONS; MECHANICALLY SECURED TO (E) SUPPORT PIPE USING FITTINGS OR CLAMPS; INSTALLED TO MAINTAIN PROPER STRAIN RELIEF AND CONDUCTOR PROTECTION; INSTALLED TO MAINTAIN CLEARANCES FROM MOVING RIGGING, LUMINAIRES, AND ACCESS PATHS. COORD. EXACT LOCATIONS WITH S.L.C. & LIGHTING CONSULTANT PRI.
- (EC) PROVIDE NEW RECEPT. & CIRCUIT TO NEW PANEL "CS": 20A @ 120V NEMA 5-2Ø DUPLEX RECEPTACLE - INDUSTRIAL GRADE, UL LISTED FOR THEATRICAL/ENTERTAINMENT USE, SUITABLE FOR OVERHEAD MOUNTING LOCATIONS; MECHANICALLY SECURED TO (E) PIPE USING FITTINGS OR CLAMPS; INSTALLED TO MAINTAIN PROPER STRAIN RELIEF AND CONDUCTOR PROTECTION; INSTALLED TO MAINTAIN CLEARANCES FROM MOVING RIGGING/LUMINAIRES/ACCESS PATHS. COORD. EXACT LOCATIONS WITH LIGHTING CONSULTANT PRI.
- (ED) PROVIDE CONDUIT ROUGH-IN & HOUSE CONTROL CABLING BETWEEN THE NEW NETWORK LIGHTING CONTROL PANEL/RACK (IN C11) & THE NEW MASTER LIGHTING CONTROLLER (IN C12). COORD. REQUIREMENTS W/ S.L.C. & LIGHTING CONSULTANT PRI.
- (EE) PROVIDE 20A @ 120V QUAD RECEPTACLE FOR LIGHTING NETWORK RACK & UPS, EACH DUPLEX WITH OWN DEDICATED 20A @ 120V CIRCUIT TO PANEL "CS". EXACT LOCATION OF RECEPTACLE TO BE DETERMINED BEHIND HOLE IN CABINETS - CONSULT WITH S.L.C., LIGHTING CONSULTANT, & IT DEPT. PRIOR TO ROUGH-IN.
- (EF) PROVIDE NEW DUAL PORT CAT6 R445 NETWORK OUTLET (PIPE OR WALL SURFACE MTD AS NOTED), IN 2-GANG BOX WITH 1" CONDUIT ROUTED TO/FROM NEW LIGHTING CONTROLLER IN ROOM C11. REFER TO "GHS AUDITORIUM LED LIGHTING CONTROL NETWORK DIAGRAM 1" ON DRAWING E3.1. EXACT/FINAL LOCATIONS TO BE COORD/CONFIRMED WITH S.L.C., THE OWNER'S LIGHTING CONSULTANT, & OWNER'S IT DEPT. PRIOR TO ROUGH-IN.
- (EG) PROVIDE BOX/CONDUIT ROUGH-IN FOR NEW DMX NODE & FUTURE CABLING (CAT6 OR DMX BY OTHERS). REFER TO "GHS AUDITORIUM LED LIGHTING CONTROL NETWORK DIAGRAM 1" ON DRAWING E3.1. COORD/CONFIRM FINAL LOCATIONS OF NODE/RECEPTACLE WITH THE S.L.C. PRIOR TO ROUGH-IN.
- (EH) PROVIDE NEW SINGLE-PORT HDMI FEMALE PIPE-MOUNTED PROJECTOR OUTLET & ASSOCIATED CABLING (CAT6 & HDMI BY OTHERS). REFER TO "GHS AUDITORIUM LED LIGHTING CONTROL NETWORK DIAGRAM 1" ON DRAWING E3.1. FINAL LOCATION TO BE DETERMINED - CONSULT WITH S.L.C./LIGHTING CONSULTANT PRIOR TO ROUGH-IN.
- (E) RECONNECT NEW HOUSE LIGHTING PENDANT (HP) TO EXISTING (E) LIGHTING CIRCUIT FEEDING OLD QUARTZ PENDANT LIGHT.
- (EI) RELOCATE (E) 50A @ 208V RECEPTACLE, & EXTEND CKT. TO A NEARBY LOCATION. E.C. SHALL VERIFY WITH OWNER ON FINAL LOCATION PRIOR TO ROUGH-IN.
- (EJ) RELOCATE (E) EF CONTROL SWITCH TO A NEARBY, ACCESSIBLE LOCATION. E.C. SHALL VERIFY WITH OWNER FINAL LOCATION PRIOR TO ROUGH-IN.
- (EL) PROVIDE CONTROL CABLING FOR HOUSE LIGHT CONTROLS - A BELDEN #9842 + (3) #16 GA. THIN STRANDED WIRED FOR DC POWER, TO NEW HOUSE LIGHTING CONTROLS - BETWEEN THE (3) HOUSE LIGHTING CONTROLLERS AND THE NEW HOUSE DIMMER RACK (LOCATED IN C11).
- (EM) PROVIDE A 30A NEMA L5-3ØR RECEPTACLE, FROM A NEW DEDICATED 30A BKR IN PANEL "CS" FOR FUTURE LIGHTING NETWORK RACK UPS. LOCATION OF RECEPTACLE TO BE DETERMINED - COORD/CONFIRM WITH LIGHTING CONSULTANT/IT DEPT. PRIOR TO ROUGH-IN.
- (EN) NEW NETWORK CABINET PROVIDED BY OTHERS (#MIDDLE ATLANTIC CWP-28-28XX) AND INSTALLED BY OWNER'S CABLING CONTRACTOR. NOTE CABINET SHALL BE LOCATED APPROXIMATELY 8' FROM THE WALL TO THE RIGHT (PLAN NORTHWEST) TO PROVIDE ACCESS TO CABINET.
- (EO) PROVIDE CONDUIT SLEEVES (FIRE CAULKED), WITH BUSHINGS & PULL STRINGS, FOR NEW HOUSE & STAGE LIGHTING CONTROL CABLES AS SHOWN ON "GHS AUDITORIUM LED LIGHTING CONTROL NETWORK DIAGRAM 1" ON DRAWING E3.1. COORDINATE PATHWAYS WITH S.L.C. & OWNER'S LIGHTING CONSULTANT PRIOR TO ROUGH-IN.

ROOM LEGEND - UNIT C

- C1 VESTIBULE
- C2 COMMONS
- C5 AUDITORIUM
- C6 MEN'S TOILET
- C7 WOMEN'S TOILET
- C8 STORAGE
- C9 ORCHESTRA PIT
- C10 STORAGE
- C11 STORAGE
- C12 STAGE
- C13 STORAGE
- C14 CONCESSIONS
- C15 CORRIDOR
- C16 LIBRARY/WORK AREA
- C17 OFFICE
- C18 INSTRUMENT REPAIR
- C19 PERCUSSION STORAGE
- C20 BAND
- C21 UNIFORM STORAGE
- C22 ENSEMBLE
- C23 CORRIDOR
- C24 CHORAL
- C25 PRACTICE
- C26 PRACTICE
- C27 PRACTICE
- C28 RISER STORAGE
- C29 MUSIC LIBRARY
- C30 OFFICE
- C31 VESTIBULE
- C32 CORRIDOR

4. E.C. SHALL COORDINATE INSTALLATION OF NEW HOUSE LIGHT FIXTURES & NEW CONTROL HOUSE LIGHTING DEVICES/CABLING WITH THE S.L.C. & WITH THE OWNER'S STAGE LIGHTING CONSULTANT (NICK REICHERT @ 989-619-1350) PRIOR TO ROUGH-IN.

4. E.C. SHALL COORDINATE INSTALLATION OF NEW HOUSE LIGHT FIXTURES & NEW CONTROL HOUSE LIGHTING DEVICES/CABLING WITH THE S.L.C. & WITH THE OWNER'S STAGE LIGHTING CONSULTANT (NICK REICHERT @ 989-619-1350) PRIOR TO ROUGH-IN.



SCALE: $1/8" = 1'-0"$

A diagram of a stepped block. The block is composed of several rectangular regions. Region G is a large rectangle on the left. Region H is a smaller rectangle directly below G. Region J is a small rectangle to the right of H. Region K is a rectangle on the top right, adjacent to G and H. The block has a stepped profile on its right side.

KEY PLAN

EU LIGHTING CONTROL NETWORK DIAGRAM 1" ON DRAWING E3.1.
COORDINATE PATHWAYS WITH S.L.C. & OWNER'S LIGHTING
CONSULTANT PRIOR TO ROUGH-IN.

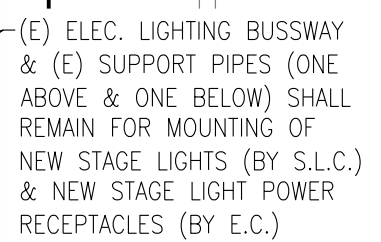
NOTES:

1. THE NEW STAGE LIGHTING FIXTURES LISTED ABOVE SHALL BE PROVIDED & INSTALLED BY THE BID CAT. #16.3 DIVISION 265561 STAGE LIGHTING CONTRACTOR (S.L.C.) IN ACCORDANCE WITH SPECIFICATION 265561 - STAGE LIGHTING EQUIPMENT & CONTROLS.

2. NOTE THAT THE DIVISION 260000 ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE/INSTALL NEW 208V & 120V RECEPTACLES. THE NEW E.C. SHALL PROVIDE/INSTALL NEW COORDINATE COORDINATE EXACT LOCATIONS OF NEW RECEPTS FOR NEW STAGE LIGHTS WITH S.L.C. PRIOR TO ROUGH-IN. THE S.L.C. SHALL PROVIDE/INSTALL NEW POWER CORDS FROM RECEPTS TO POWER NEW STAGE LIGHTS AND NEW DDM/ETHERNET CABLES FOR THE NEW STAGE LIGHTS.

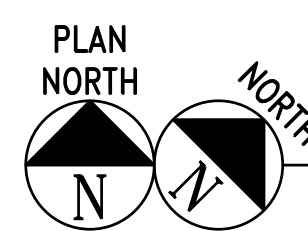
3. THE E.C. SHALL PROVIDE AND COORDINATE THE INSTALLATION OF ANY BOX/CONDUIT ROUGH-IN NEEDED FOR THE NEW STAGE LIGHTS. B/O/R NEW STAGE LIGHTING CONTRACTOR DEVICES/CONDUIT, WITH THE S.L.C. & WITH THE OWNER'S STAGE LIGHTING CONSULTANT (KIM REICHERT) @ 989-619-1350 PRIOR TO ROUGH-IN.

3. THE E.C. SHALL PROVIDE & COORDINATE THE INSTALLATION OF ANY BOX/CONDUIT ROUGH-INS NEEDED FOR THE NEW STAGE LIGHT FIXTURES, &/OR NEW STAGE LIGHTING CONTROL DEVICES/CABLING, WITH THE S.L.C. & WITH THE OWNER'S STAGE LIGHTING CONSULTANT (NICK REICHT) @ 989-619-1350) PRIOR TO ROUGH-IN.



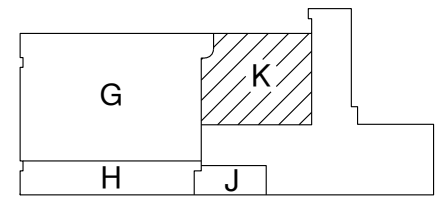
✓(E) PROJECTOR SUPPORT
PIPE TO REMAIN

NEW STAGE LIGHTING FIXTURES SHALL BE
PURCHASED & INSTALLED BY STAGE LIGHTING
CONTRACTOR (S.L.C.) PER SPECIFICATION
265561. E.C. SHALL COORD./CONFIRM
EXACT LOCATION OF NEW POWER
RECEPTACLES FOR NEW STAGE LIGHTS WITH
S.L.C. PRIOR TO ROUGHIN (PRI)_____



ELECTRICAL STAGE LIGHTING NEW WORK PLAN
SCALE: 1/8" = 1'-0"

K1 BRIDGE
K2 SOUND & LIGHT CONTROL MEZZANINE
K3 MECHANICAL ROOM



KEY PLAN

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PANEL:	CS	225A MLO		BUSSING SIZE:	225A	FED FROM:	(E) DPCL-1
# OF POLES:	72	VOLTS: 120-208/3P4W		NEUTRAL BUS:	225A	MOUNTING:	SURFACE
PHASE:	3	GROUND BUS: YES		TVSS:	NO	AIC RMS AMPS:	22,000
HERTZ:	60	ISOLATED GROUND: YES		NEW PANEL TO REPLACE OLD STAGE DIMMER			
LOCATION:	ELECTRICAL CLOSET C11			REMARKS:	RACK-200A @ 208V/3P MLO w/ (72)-20A/1P BKRS		

CIRCUIT	BREAKER	DESCRIPTION	A	B	C
1	20	DEDICATED RECEPT - CATWALK NORTH	180		
3	20	DEDICATED RECEPT - CATWALK CENTER		180	
5	20	DEDICATED RECEPT - CATWALK SOUTH			180
7	20	DEDICATED RECEPT - FRONT STAGE LIGHT BAR NORTH	180		
9	20	DEDICATED RECEPT - FRONT STAGE LIGHT BAR CENTER		180	
11	20	DEDICATED RECEPT - FRONT STAGE LIGHT BAR SOUTH			180
13	20	DEDICATED RECEPT - MIDDLE STAGE LIGHT BAR NORTH	180		
15	20	DEDICATED RECEPT - MIDDLE STAGE LIGHT BAR CENTER		180	
17	20	DEDICATED RECEPT - MIDDLE STAGE LIGHT BAR SOUTH			180
19	20	DEDICATED RECEPT - BACK STAGE LIGHT BAR NORTH	180		
21	20	DEDICATED RECEPT - BACK STAGE LIGHT BAR CENTER		180	
23	20	DEDICATED RECEPT - BACK STAGE LIGHT BAR SOUTH			180
25	20	DEDICATED RECEPT IN C11 FOR NETWORK PANEL	180		
27	20	DEDICATED RECEPT IN C11 FOR NETWORK PANEL		180	
29	30	DEDICATED RECEPT IN C11 FOR UPS			180
31	20	SPARE	0		
33	20	PROJECTOR RECEPT (UP HIGH)		500	
35	20	SPARE			0
37		SPACE	0		
39		SPACE		0	
41		SPACE			0
43		SPACE	0		
45		SPACE		0	
47		SPACE			0
49		SPACE	0		
51		SPACE		0	
53		SPACE			0
55		SPACE	0		
57		SPACE		0	
59		SPACE			0
61		SPACE	0		
63		SPACE		0	
65		SPACE			0
67		SPACE	0		
69		SPACE		0	
71		SPACE			0

2	20	L6-20 RECEPT - CATWALK NORTH	550.5		
4	-	-		550.5	
6	20	L6-20 RECEPT - CATWALK CENTER-NORTH			917.5
8	-	-	917.5		
10	20	L6-20 RECEPT - CATWALK CENTER-SOUTH			1101
12	-	-			1101
14	20	L6-20 RECEPT - CATWALK SOUTH	550.5		
16	-	-		550.5	
18	20	L6-20 RECEPT - FRONT STAGE LIGHT BAR NORTH			600
20	-	-	600		
22	20	L6-20 RECEPT - FRONT STAGE LIGHT BAR CENTER-NORTH			690
24	-	-			690
26	20	L6-20 RECEPT - FRONT STAGE LIGHT BAR CENTER-SOUTH	800		
28	-	-		800	
30	20	L6-20 RECEPT - FRONT STAGE LIGHT BAR SOUTH			600
32	-	-	600		
34	20	L6-20 RECEPT - MIDDLE STAGE LIGHT BAR NORTH			180
36	-	-			180
38	20	L6-20 RECEPT - MIDDLE STAGE LIGHT BAR CENTER-NORTH	180		
40	-	-		180	
42	20	L6-20 RECEPT - MIDDLE STAGE LIGHT BAR CENTER-SOUTH			180
44	-	-	180		
46	20	L6-20 RECEPT - MIDDLE STAGE LIGHT BAR SOUTH			180
48	-	-			180
50	20	L6-20 RECEPT - BACK STAGE LIGHT BAR NORTH	180		
52	-	-		180	
54	20	L6-20 RECEPT - BACK STAGE LIGHT BAR CENTER-NORTH			180
56	-	-	180		
58	20	L6-20 RECEPT - BACK STAGE LIGHT BAR CENTER-SOUTH			180
60	-	-		180	
62	20	L6-20 RECEPT - BACK STAGE LIGHT BAR SOUTH	180		
64	-	-		180	
66		SPACE			0
68		SPACE	0		
70		SPACE		0	
72		SPACE			0

KVA:	18	CONNECTED AMPS:	49.1	PHASE WATTS:	5,819	6,172	5,708
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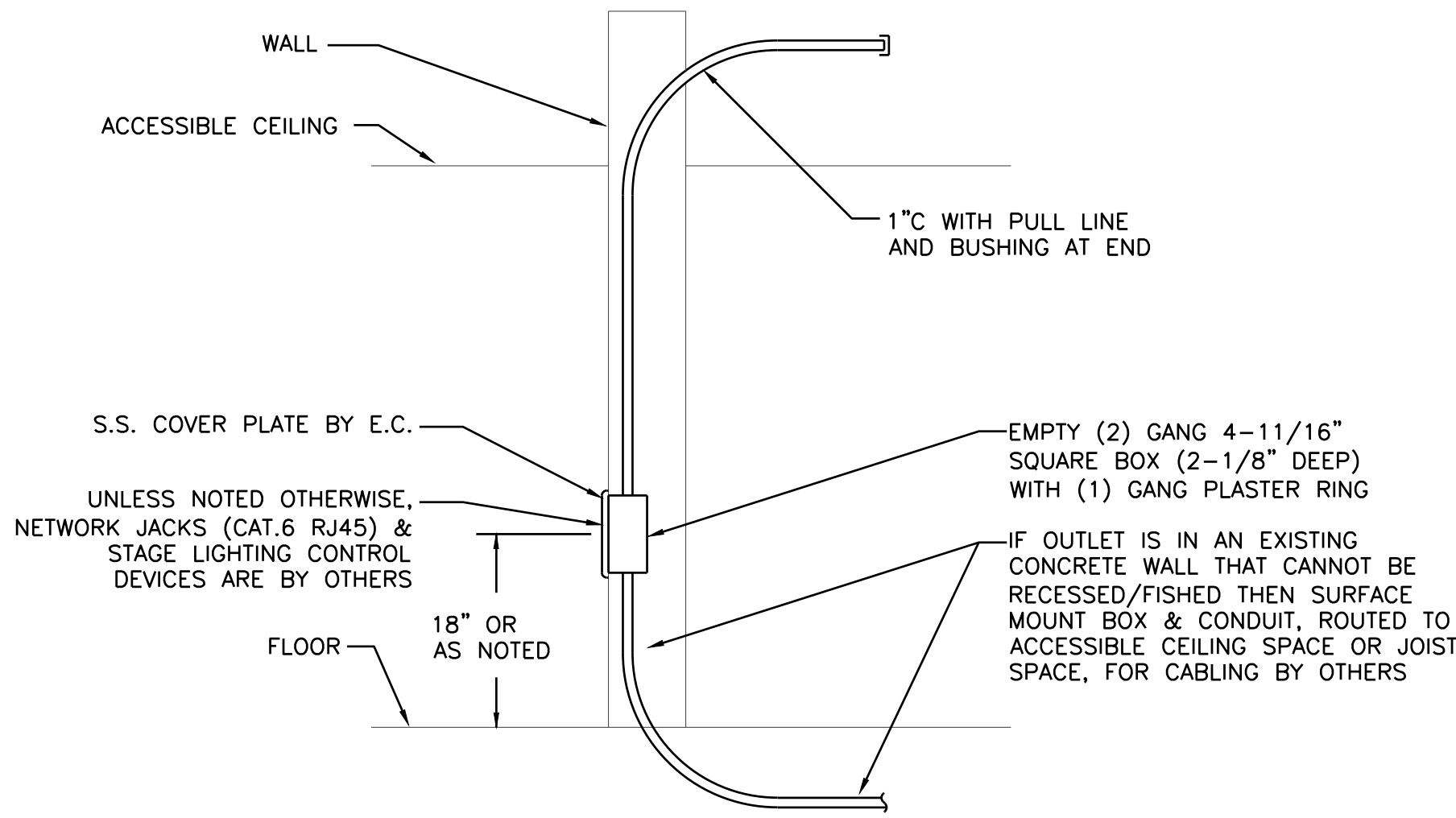
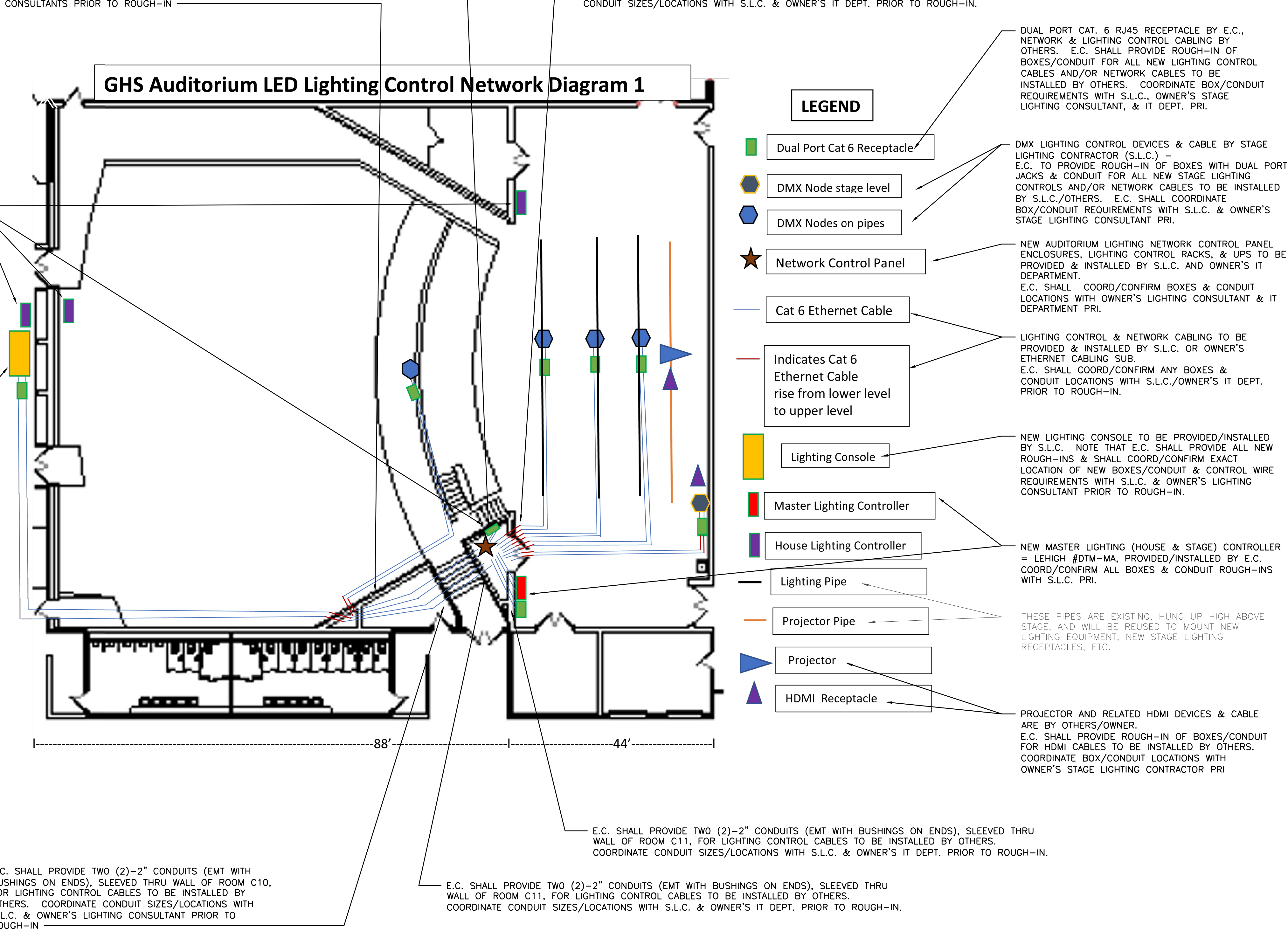
HOUSE LIGHTING IMPROVEMENTS:
E.C. SHALL PROVIDE/INSTALL ALL NEW HOUSE LIGHTING FIXTURES "HP" AND HOUSE LIGHTING CONTROLS INCLUDING NEW HOUSE DIMMER RACK HD-N (LEHIGH SUNBURST SB2400R-12 DMX ELV - 100A @ 208V/3Ø WITH 12-20A/1P BKRS); NEW MASTER HOUSE & STAGE LIGHTING CONTROLLER = LEHIGH #DTM-MA; NEW HOUSE LIGHTING CONTROL STATIONS (LEHIGH #SDED-604RL) & NEW CONTROL WIRING (BELDEN #9842 + 3-#16 THHN STRD IN CONDUIT) TO/FROM THE NEW HOUSE DIMMER RACK HD-N & THE NEW HOUSE CONTROL STATIONS, ETC... E.C. SHALL COORD/CONFIRM EXACT LOCATION OF NEW BOXES/CONDUIT & CONTROL WIRE REQUIREMENTS WITH S.L.C. & OWNER'S STAGE LIGHTING CONSULTANT PRI.

NEW LIGHTING CONTROL CONSOLE = GRANDMA3 #MA4010511 (PROVIDED/INSTALLED BY S.L.C.). PROVIDE ALL BOX/CONDUIT ROUGH-INS, COORD/CONFIRM REQUIREMENTS WITH S.L.C. & OWNER'S LIGHTING CONSULTANT PRIOR TO ROUGH-IN.

E.C. SHALL PROVIDE TWO (2)-2" CONDUITS (EMT WITH BUSHINGS ON ENDS), SLEEVED THRU WALL OF ROOM C10, FOR LIGHTING CONTROL CABLES. COORDINATE CONDUIT SIZES/LOCATIONS WITH S.L.C. & WITH OWNER'S STAGE LIGHTING CONSULTANTS PRIOR TO ROUGH-IN.

NEW HOUSE DIMMER RACK/PANEL HD-N = LEHIGH SUNBURST SB2400R-12 DMX ELV: 100A MLO @ 208V/3Ø WITH 12-20A/1P BREAKERS, PROVIDED & INSTALLED BY E.C. CAREFULLY DISCONNECT (E) CKTS/FEEDER & REMOVE (E) HOUSE DIMMER RACK/PANEL. THEN REPLACE IN SAME LOCATION NEW HOUSE AND THEN RECONNECT (E) 100A & 208V/3Ø FEEDER & THE (E) HOUSE LIGHTING CKTS TO NEW HD-N.

E.C. SHALL PROVIDE FOUR (4)-2" CONDUITS (EMT WITH BUSHINGS ON ENDS), SLEEVED THRU WALL OF ROOM C11, FOR LIGHTING CONTROL CABLES TO BE INSTALLED BY OTHERS. COORDINATE CONDUIT SIZES/LOCATIONS WITH S.L.C. & OWNER'S IT DEPT. PRIOR TO ROUGH-IN.



- NOTES:
- E.C. SHALL PROVIDE ROUGH-IN ONLY - NOTE: UNLESS NOTED OTHERWISE ON THE PLANS, ALL TELECOM/VIDEO/CONTROL CABLING SHALL BE DONE BY OTHERS (OWNER'S SELECTED SUB-CONTRACTORS, UNDER A SEPARATE CONTRACT).
 - PROVIDE LABEL ON CONDUIT STATING OUTLET BOX LOCATION (E.G. ROOM NAME & NUMBER).

- 3) WHERE OUTLETS ARE SHOWN IN ON EXISTING CONCRETE WALLS THAT CANNOT BE RECESSED/FISHED, SURFACE MOUNT 4" SQUARE 2-GANG BOX, WITH 1-GANG MUD RING, & SURFACE MOUNTED CONDUIT UP TO ACCESSIBLE CEILING/JOIST SPACE, FOR CABLING BY OTHERS. COORD/CONFIRM REQUIREMENTS (BOX LOCATION, CONDUIT ROUTING, ETC.) WITH OWNER'S SUBCONTRACTORS & IT DEPARTMENT PRIOR TO ROUGH-IN.

▽ TELECOM & STAGE LIGHTING CONTROLS OUTLET DETAIL
NO SCALE

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CAREFULLY DISCONNECT (E) CKTS/FEEDER & REMOVE (E) HOUSE DIMMER RACK/PANEL. THEN REPLACE IN SAME LOCATION NEW HOUSE DIMMER RACK/PANEL (HD-N = LEHIGH SUNBURST SB2400R-12 DMX ELV: 100A MLO @ 208V/3Ø WITH 12-20A/1P BREAKERS) AND THEN RECONNECT (E) 100A @ 208V/3Ø FEEDER & THE (E) HOUSE LIGHTING CKTS BACK UP TO NEW HD-N

PROVIDE NEW QUAD RECEPTACLE - FEED EACH DUPLEX RECEPT. WITH A DEDICATED 20A @ 120V CKT FED FROM A 20A/1P BKR IN NEW PANEL "CS"

PROVIDE NEW CU GROUND BUSS BAR (GBB), INSTALLED NEAR NEW STAGE LIGHTING CONTROL RACK IN ROOM C11, COORD/CONFIRM LOCATION WITH OWNER'S IT & LIGHTING CONSULTANT PRI

#8 CU GRD WIRE BONDED TO A NEARBY EXISTING BUILDING STEEL COLUMN

E.C. SHALL PROVIDE ALL HOUSE LIGHTING SYSTEM WORK INCLUDING DEMO WORK, NEW LED HOUSE PENDANT LIGHTS, NEW HOUSE DIMMER RACK, ETC... AS WELL AS ALL NEW HOUSE LIGHTING CONTROLS TO/ FROM HD-N, TO/ FROM HOUSE CONTROL STATIONS, TO/ FROM NEW MAIN AUDITORIUM LIGHTING CONTROLLER, ETC., INCLUDING ALL BOX/CONDUIT ROUGH-INS REQUIRED FOR NEW LIGHTING CONTROLS

NEW #8 CU ISOLATED GROUND (I.G.) FROM (E) PANEL CL-1'S OR CL-4'S I.G. BUS TO NEW GROUND BUSS BAR NEAR NEW STAGE LIGHTING NETWORK RACK

DISCONNECT & REMOVE (E) STAGE DIMMER RACK/PANEL AND REPLACE/RECONNECT IN NEARBY LOCATION NEW PANEL "CS" TO FEED NEW STAGE LIGHTING RECEPTACLES & NEW NETWORK CONTROL RACK FOR STAGE LIGHTING & CONTROLS

NEW #6 CU ISOLATED GROUND (I.G.) CABLE FROM NEW PANEL CS'S I.G. BUS TO (E) PANEL CL-1'S (ROOM C10) OR (E) CL-4'S (ROOM G48) I.G. BUS

NEW DMX CABLING TO STAGE LIGHTS & CONTROLS TO BE PROVIDED/INSTALLED BY STAGE LIGHTING CONTRACTOR (S.L.C.) - E.C. SHALL PROVIDE ALL BOX/CONDUIT ROUGH-INS REQUIRED FOR NEW LIGHTING CONTROLS & SHALL COORDINATE WITH S.L.C. & OWNER'S LIGHTING CONSULTANT

PROVIDED & INSTALLED BY OTHERS - E.C. SHALL COORDINATE/CONFIRM WITH STAGE LIGHTING CONTRACTOR (S.L.C.) & OWNER'S IT DEPT. PRIOR TO ROUGH-IN

PROVIDE NEW NEMA 15-30R RECEPTACLE, FED FROM A DEDICATED 30A @ 120V BKR IN PANEL "CS", FOR OPTIONAL/FUTURE 30A @ 120V UPS - COORD/CONFIRM EXACT LOCATION PRI

PROVIDE #8 CU GRD, COILED UP FOR CONNECTION TO NEAR STAGE LIGHTING CONTROL RACK-COORD/CONFIRM EXACT LOCATION PRI

ELECTRICAL SERVICE ONE LINE DIAGRAM

NO SCALE

