

ELECTRICAL LEGEND

CEILING OUTLETS

- A (2) RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
A (2) RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
A (2) RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
A (2) RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
FS 1-2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
FS 1-2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
○ RECESSED OR SURFACE MOUNT LED DOWNLIGHT
● RECESSED OR SURFACE MOUNT LED DOWNLIGHT "EMERGENCY POWER"
○ SURFACE OR PENDANT MOUNTED ROUND FIXTURE
C ○ JUNCTION BOX
○ EXIT LIGHT
EF EXHAUST FAN
⊙ DUPLEX RECEPTACLE - 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, CEILING MOUNTED.

WALL OUTLETS

- ⊙ WALL MOUNTED EXIT LIGHT
○ WALL MOUNTED LIGHTING FIXTURE
● WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
BATTERY OPERATED EMERGENCY LIGHTING FIXTURE
⊙ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
⊙ G DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
⊙ W DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE EXTRA-DUTY WEATHERPROOF BOX FOR RECEPTACLE
⊙ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 6" ABOVE COUNTER
⊙ G DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 6" ABOVE COUNTER
⊙ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, COORDINATE MOUNTING HEIGHT WITH ARCH. AND MOUNT ADJACENT TO TELEVISION OUTLET
⊙ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
⊙ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT AS DIRECTED FOR SMARTBOARD
⊙ QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 6" ABOVE COUNTER UNLESS NOTED OTHERWISE
⊙ DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, MOUNT 28" AFF TO C/L FOR DRINKING FOUNTAIN
○ SINGLE RECEPTACLE - 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R, MOUNT AS DIRECTED FOR RACK UPS SYSTEM
● 250V DRYER RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-30R; HUBBELL SERIES 9350
○ JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
P PHOTOCELL; TORK MODEL 2101 (120V)

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
S₃ A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
S_M MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
30/1 S_M MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
S_{M2} MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 VOLT
S_T A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT, 60-MINUTE TIME SWITCH SIMILAR TO INTERMATIC IF SERIES
D₁ PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

LIGHTING CONTROLS

- ⊙ CEILING MOUNTED OCCUPANCY SENSOR
PF POWER PACK FOR OCCUPANCY SENSOR
L₁ ROOM CONTROLLER - 1 ZONE DIMMING
L₂ ROOM CONTROLLER - 2 ZONE DIMMING
LE ROOM CONTROLLER - EMERGENCY LIGHTING UL924 DEVICE
RC ROOM CONTROLLER - ON/OFF NO DIMMING
D₁ WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING
D₂ WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING
S_L LOW VOLTAGE SWITCH, 2-BUTTON
S_{LX} LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
S₀₁ OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

COMMUNICATIONS SYSTEMS

- ▷ WALL OUTLET - 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT 18" AFF;
(X) FOR TYPICAL UNITS - SEE DETAILS
(X) INDICATES NUMBER OF DATA RJ45 JACKS AND CAT6 CABLES BACK TO MDF
AC ▷ WALL OUTLET - 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT ABOVE COUNTER;
(X) FOR TYPICAL UNITS - SEE DETAILS
(X) INDICATES NUMBER OF DATA RJ45 JACKS AND CAT6 CABLES BACK TO MDF
X CEILING OUTLET FOR WIRELESS INTERNET - SEE DETAILS
TELEPHONE BACKBOARD - 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN
CCTV SECURITY CAMERA - SEE DETAILS
WALL-MOUNTED COMMUNICATIONS RACK, SEE COMMUNICATIONS RISERS, FLOOR PLANS AND ELEVATIONS FOR FURTHER REQUIREMENTS.
S IP SPEAKER - SEE DETAILS

FIRE ALARM SYSTEM

- FACP FIRE ALARM SYSTEM CONTROL PANEL
ANN FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
M FIRE ALARM SYSTEM MANUAL PULL STATION
WFF WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN
FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE, WALL MOUNT
FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE, CEILING MOUNT
FIRE ALARM SYSTEM STROBE
FIRE ALARM SYSTEM TAMPER SWITCH
FIRE ALARM SYSTEM FLOW SWITCH
FIRE ALARM SYSTEM AUTOMATIC CARBON MONOXIDE DETECTOR W/ AUDIBLE SOUNDER BASE ; CEILING MOUNTED, PROVIDE WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
FIRE ALARM SYSTEM REMOTE TEST STATION
FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS
FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
--- RUN CONCEALED IN CEILING OR WALLS
LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; ---3 #12, 1 #12 GROUND - 3/4" C; ---4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
LA-10 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; ---10#3 #10, 1 #10 GROUND - 3/4" C; ---10#4 #10, 1 #10 GROUND - 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; ---8#3 #8, 1 #10 GROUND - 3/4" C; ---8#4 #8, 1 #10 GROUND - 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
6 WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
--- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
--- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
--- EMPTY CONDUIT WITH PULLWIRE RUN CONCEALED IN CEILING OR WALLS
--- EMERGENCY CIRCUITRY CONNECTED TO GENERATOR RUN CONCEALED IN CEILING OR WALLS

PANELS AND POWER

- PANELBOARD
PANELBOARD FLUSH MOUNTED
CON CONTROL PANEL
NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; "S" INDICATES HORSE POWER RATING
CIRCUIT BREAKER
NONFUSIBLE SWITCH
FUSIBLE SWITCH
DRAWOUT CONNECTION
TRANSFORMER
ENCLOSED CIRCUIT BREAKER
ELECTRIC METER
GROUNDING ELECTRODE CONNECTION
GROUND BUSS

MISCELLANEOUS EQUIPMENT

- C CONTACTOR
WH WATER HEATER
TC TIME CLOCK
MD MOTORIZED DAMPER
UV JUNCTION BOX FOR UV LIGHTS
IBD CLASS BELL

MISCELLANEOUS

- A AMPERE
ADA AMERICANS WITH DISABILITIES ACT
AFF ABOVE FINISH FLOOR
AIC AMPERE INTERRUPTING CAPACITY
ATS AUTOMATIC TRANSFER SWITCH
C CONDUIT
CL CENTER LINE
CWP COLD WATER PIPE
EM EMERGENCY
EMT ELECTRIC METALLIC TUBING
GFI GROUND FAULT INTERRUPTER
GRD GALVANIZED RIGID METAL CONDUIT
GRD GROUND
MCB MAIN CIRCUIT BREAKER
MCC MOTOR CONTROL CENTER
MLO MAIN LUGS ONLY
MT MOUNT
N NEUTRAL
NOT IN CONTRACT
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NL NIGHT LIGHT
NTS NOT TO SCALE
P POLE
PF POWER FACTOR
PH PHASE
PNL PANEL
PVC (POLYVINYL CHLORIDE) CONDUIT
SLD SINGLE LINE DIAGRAM
TBB TELEPHONE BACKBOARD
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
UL UNDERWRITER'S LABORATORY
U.N.O. UNLESS NOTED OTHERWISE
V VOLTAGE
W WIRE
WP WEATHERPROOF
NUMBER
3R NEMA 3R WEATHERPROOF ENCLOSURE
4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

GENERAL ELECTRICAL NOTES:

- THE SERVICE VOLTAGE TO THE FACILITY IS 120/208 VOLT, 3 PHASE, 4 WIRE.
- INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
- MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
- COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
- ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
- THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
- COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
- ALL ELECTRICAL RACEWAYS AND CABLES SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
- ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
- ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
- ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPSBOARD CEILING.
- ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A FULL WIRE.
- PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
- INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
- PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
- ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
- ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
- HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH FULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT & HUMIDISTATS OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
- ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
- HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH FULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
- BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.

GENERAL DEMOLITION NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID AND BIDDING ACCORDINGLY.
- ELECTRICAL DEVICES SHOWN IN BOLD INDICATES NEW WORK. ELECTRICAL DEVICES THAT ARE SHOWN IN LIGHT PEN AND DASHED INDICATE EXISTING DEVICES TO REMAIN.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH CARE NOT TO DISTURB THE OTHER EXISTING UTILITIES. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, THE EXISTING UTILITIES ARE TO FIXED TO IT'S ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR.
- LEGEND SYMBOLS ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION WORK. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
- EXISTING BRANCH WIRING AND DEVICES SHOWN IS DIAGRAMMATICAL ONLY BASED ON EXISTING DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR EXACT LOCATIONS.
- TRENCH, CUT AND REMOVE EXISTING SURFACES AS REQUIRED FOR THE INSTALLATION OF ALL NEW ELECTRICAL PROVISIONS.
- CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.
- OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL SURFACE.
- EXISTING JUNCTION BOXES MAY BE USED AS NOTED IF OF THE PROPER SIZE. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
- EXISTING PANELBOARDS SHALL BE UTILIZED TO FACILITATE THE WORK AS SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (WHENEVER POSSIBLE), FRAME SIZE, AIC RATING AND TYPE AS EXISTING. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL MATERIALS FOR PANELBOARDS TO PROPERLY MEET THE INTENT OF THE DRAWINGS.
- WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.
- CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE DEMOLISHED.



Goshen High Shool Arts Center Renovation

TO
Goshen High School
FOR THE

Pike County Board of Education

Troy, ALABAMA

MCKEE and ASSOCIATES
ARCHITECTURE and INTERIOR DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-6933



SHEET TITLE : ELECTRICAL LEGEND & NOTES

MCKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E0.1

GENERAL NOTES:

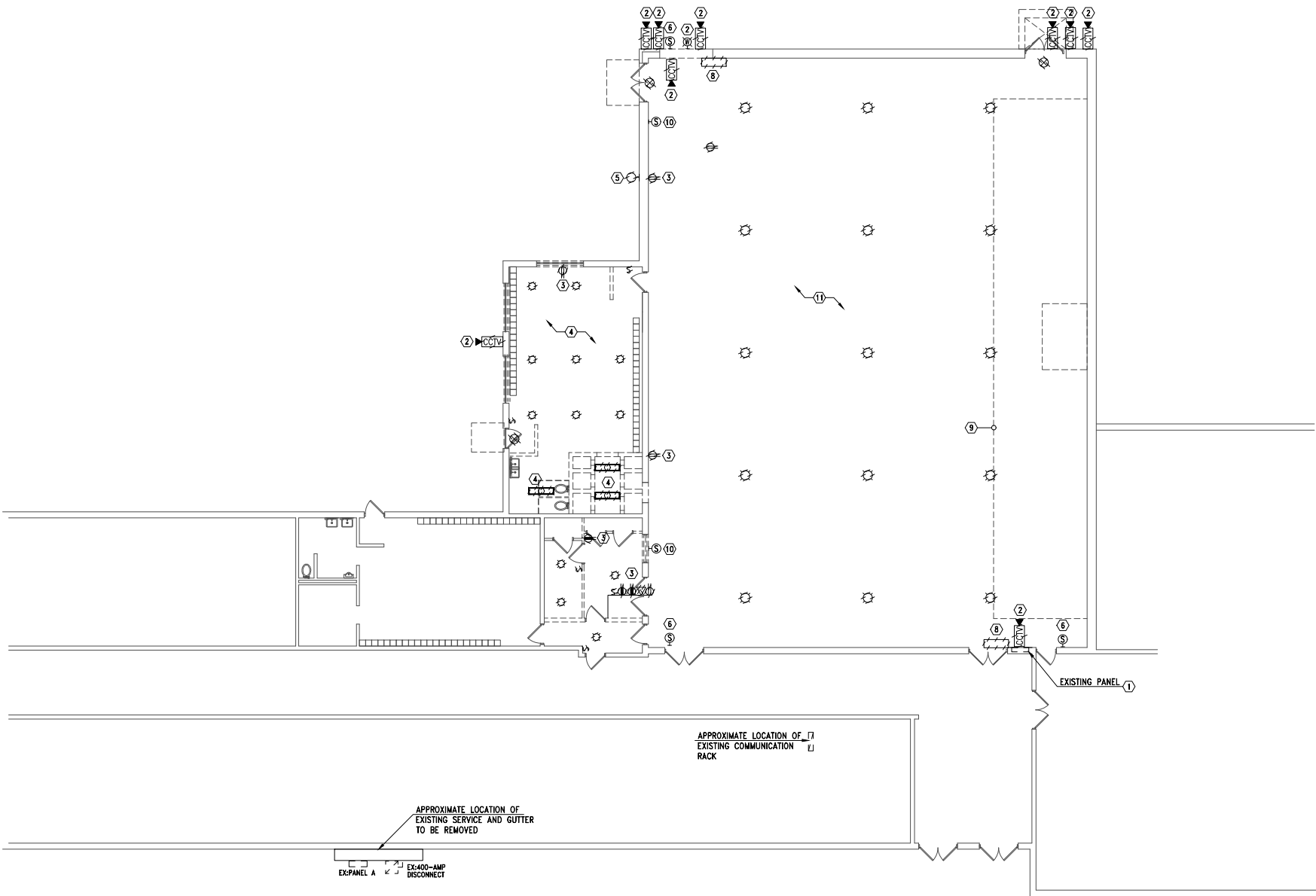
1. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLING ALL CEILING MOUNTED DEVICES IN ALL AREAS THAT NEW CEILINGS WILL BE INSTALLED. LOWER DEVICES TO NEW CEILINGS AS REQUIRED. INTERCEPT AND EXTEND CIRCUITRY AS NEEDED. VISIT SITE PRIOR TO BIDS TO QUANTIFY THE AMOUNT OF WORK AND BID ACCORDINGLY.
2. REMOVE ALL SWITCHING AS REQUIRED TO ACCOMPLISH NEW SWITCHING REQUIREMENTS. SEE LIGHTING PLANS FOR NEW SWITCH REQUIREMENTS FOR EACH SPACE.
3. CONTRACTOR RESPONSIBLE FOR REMOVING AND PROPERLY DISPOSING OF ALL EXISTING LIGHTS AND LIGHT BULBS.
4. CONTRACTOR SHALL EDIT EXISTING PANELBOARDS AS REQUIRED TO REFLECT DEMOLITION WORK.
5. OWNER TO REMOVE WIRELESS ACCESS POINTS, SECURITY CAMERAS, AND OTHER DEVICES. COORDINATE THIS REMOVAL WITH PIKE COUNTY BOE IT DEPARTMENT PRIOR TO DEMOLITION WORK BEGINNING. DEVICES LEFT THAT ARE NOT WANTED BY PIKE COUNTY BOE IT DEPARTMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM JOBSITE.

EXISTING RACEWAYS:

ELECTRICAL CONTRACTOR SHALL SUPPORT ALL EXISTING RACEWAYS TO REMAIN PER THE NATIONAL ELECTRICAL CODE. PROVIDE ALL EXISTING OPEN JUNCTION BOXES WITH COVERS AND PROVIDE PUSH PENNIES TO ANY EXISTING OPEN KNOCKOUTS. THE EXISTING OVERHEAD CONDUIT SYSTEM IS CURRENTLY NOT SUPPORTED CORRECTLY AND THERE IS OPEN JUNCTION BOXES AND KNOCKOUTS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ALL THESE ITEMS IN THEIR BASE BID.

SHEET NOTES:

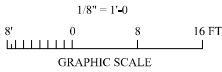
- ① EXISTING DEVICE TO REMAIN.
- ② CONTRACTOR SHALL REMOVE DEVICE AND CIRCUITRY. NOTE WHITE CAMERAS SHALL BE TURNED OVER TO THE OWNER AND BLACK CAMERAS SHALL BE DISPOSED OF.
- ③ EXISTING DEVICE TO BE REMOVED. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT FOR EXISTING DEVICES TO REMAIN.
- ④ EXISTING LIGHTING DEVICES IN THIS AREA TO BE REMOVED. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT FOR EXISTING DEVICES TO REMAIN.
- ⑤ REMOVE EXISTING LIGHT. MAINTAIN CIRCUITRY TO EXISTING LIGHTING TO REMAIN.
- ⑥ CONTRACTOR SHALL REMOVE INTERCOM SPEAKER/HORN AND CIRCUITRY AND TURN OVER TO OWNER. ANY REFUSED EQUIPMENT SHALL BE DISPOSED OF.
- ⑦ CONTRACTOR SHALL REMOVE SPEAKER/AV SYSTEM AND CIRCUITRY AND TURN OVER TO OWNER. ANY REFUSED EQUIPMENT SHALL BE DISPOSED OF.
- ⑧ CONTRACTOR SHALL REMOVE SCOREBOARD AND CIRCUITRY.
- ⑨ CONTRACTOR SHALL REMOVE ELECTRICAL TO MOTORIZED BLEACHERS TO BE REMOVED.
- ⑩ CONTRACTOR SHALL REMOVE SPEAKER/AV SYSTEM AND CIRCUITRY AND TURN OVER TO OWNER. ANY REFUSED EQUIPMENT SHALL BE DISPOSED OF.
- ⑪ REMOVE ALL EXPOSED CIRCUITRY AND LOW VOLTAGE CABLING IN EXISTING GYMNASIUM.



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E1.1

PARTIAL FLOOR PLAN DEMOLITION - ELECTRICAL

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



Gunn & Associates, P.C.
Consulting Engineers

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Millbrook, AL 36054
Tel: 334.285.1273

1200 Providence Park, Suite 200
Birmingham, AL 35242
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SHEET TITLE : PARTIAL FLOOR PLAN -
DEMOLITION -
ELECTRICAL

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10/10/2025 10:00 AM 10/10/2025 10:00 AM

SHEET NOTES:

- ROUTE EXTERIOR LIGHTING CIRCUITS THRU CONTACTORS AS SHOWN IN DETAIL 3. "NL" DESIGNATES LIGHTS ARE PHOTOCELL ON/PHOTOCELL OFF. "OL" DESIGNATES PHOTOCELL ON/TIMECLOCK OFF.
- DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT CORRIDOR LIGHTS TO TURN OFF DURING CLASS BY OCCUPANCY SENSORS.
- PROVIDE LOW VOLTAGE CABLING IN CONDUIT TO INTERCONNECT THE LED LIGHTS DMX INTERFACE TO THE DMX CONTROLLER IN THE DIMMING RACK. COORDINATE EXACT WIRING REQUIREMENTS WITH DIMMING RACK MANUFACTURER.
- PROVIDE LOW VOLTAGE CABLING IN CONDUIT TO INTERCONNECT THE LED LIGHTS 0-10V DIMMING TO THE 0-10V DIMMING CONTROLLER IN THE DIMMING RACK. COORDINATE EXACT WIRING REQUIREMENTS WITH DIMMING RACK MANUFACTURER.

KEYED NOTES

- POWER SUPPLY - 120V, 1PH, 60HZ
- TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- POWER TAP TO PHOTO-CELL IN GRC
- TURN-LOCK PHOTO-CELL, SEE DETAIL
- SWITCH LEG RETURN IN GRC
- POWER TO CONTACTOR COIL
- LIGHTING CONTACTOR [NL] & [OL] AS FOLLOWS:
 - NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
 - ELECTRICALLY OPERATED-ELECTRICALLY HELD
 - RATING AND NUMBER OF POLES INDICATED
 - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
 - FUSING FOR CONTROL CIRCUIT
- GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
- DIGITAL TIME SWITCH AS FOLLOWS:
 - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
 - INPUT: 120 VAC, 60HZ
 - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
 - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
 - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
 - RELATIVE HUMIDITY: 0 TO 90% RH
 - CLOCK ACCURACY: ±2 MINUTES PER YEAR
 - LED INDICATION OF TIME AND LOAD STATUS
 - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
- PROVIDE NUMBER OF POLES REQUIRED.

DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR

NO SCALE

GENERAL NOTES:

- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS FOR OCCUPANCY SENSORS AND THE FOLLOWING:
 - a. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
 - b. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO A POWER PACK.
 - c. IF MULTIPLE CIRCUITS OR DUAL SWITCHING ARE TO BE CONTROLLED BY OCCUPANCY SENSORS, PROVIDE ALL ADDITIONAL AUXILIARY RELAYS AND POWER PACKS AS NEEDED.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- SEE POWER PLANS FOR PANEL LOCATIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
- CONTRACTOR SHALL PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.
- SEE LIGHTING CONTROL CONNECTION DIAGRAMS SHEETS E2.2 AND THEATRICAL DETAILS ON SHEETS E2.3 AND E2.4.

ROOM CONTROLLER NOTES:

- CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

PHOTOCONTROL OF LIGHTING:

- PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.



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

1/8" = 1'-0"
0 8 16 FT
GRAPHIC SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
Tel: 334-285-1273
GA/254040

Goshen High Shool Arts Center Renovation

Goshen High School

Pike County Board of Education

Troy, ALABAMA

MCKEE and ASSOCIATES

ARCHITECTURE and INTERIORS DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 534-0933



SHEET TITLE : PARTIAL FLOOR PLAN - LIGHTING

MCKEE JOB # : 20.119

DRAWN BY : J. TILLERY

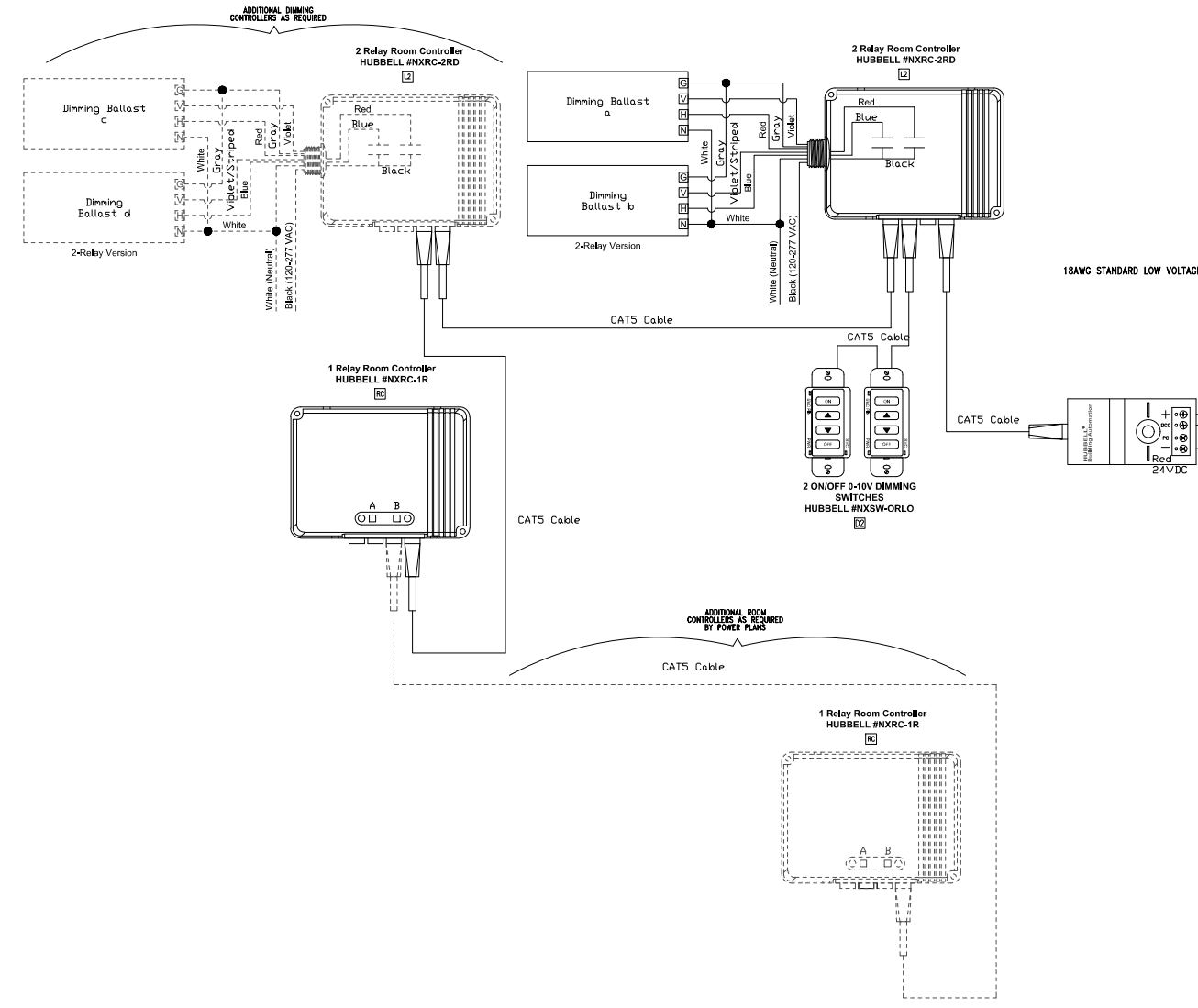
DATE : 10-10-2025

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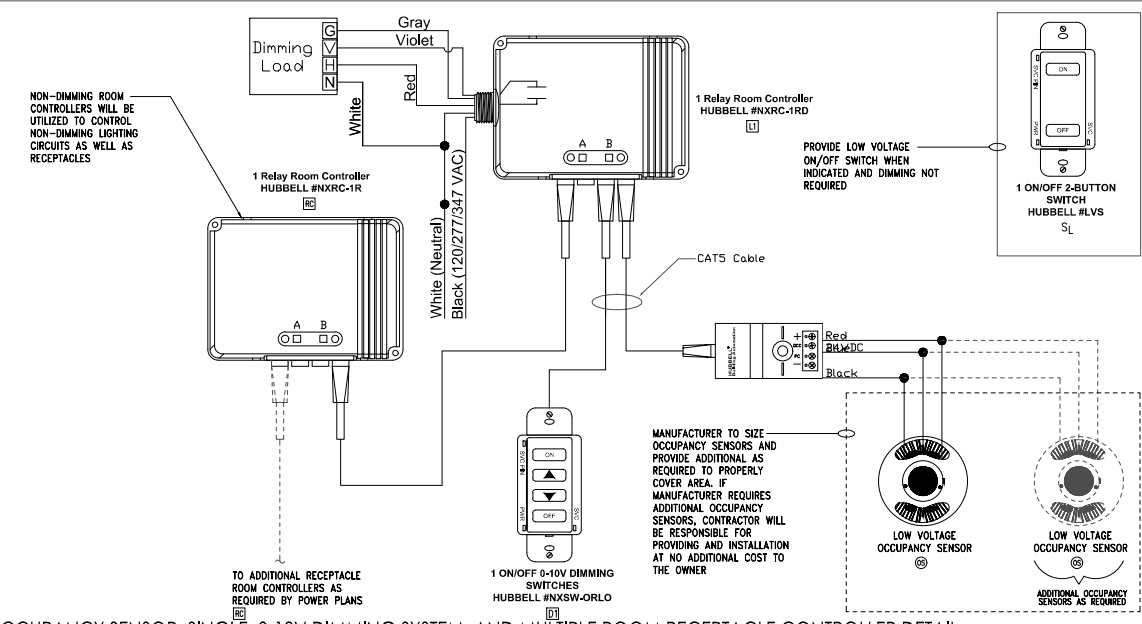
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REVISED DATE :

SHEET NO. : E2.1



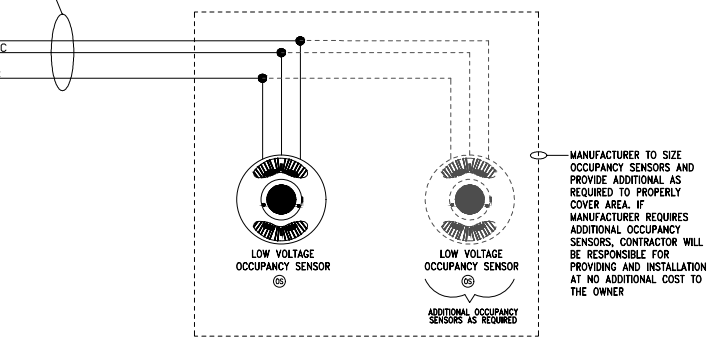
1 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCELL, MULTIPLE 0-10V DIMMING ZONES, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL
E2.2 NO SCALE



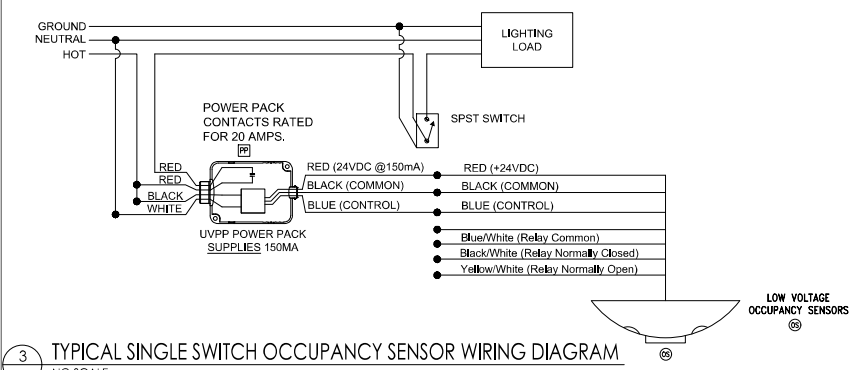
2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL
E2.2 NO SCALE

OCCUPANCY SENSOR AND CONTROL NOTES:

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
- OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
- WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



4 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM
E2.2 NO SCALE



3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
E2.2 NO SCALE

Goshen High Shool Arts Center Renovation

TO
Goshen High School

FOR THE
Pike County Board of Education

Troy, ALABAMA

McKEE and ASSOCIATES
ARCHITECTURE and INTERIORS DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 534-9933



SHEET TITLE : LIGHTING CONTROL
DETAILS & NOTES

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE : 10-10-2025

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : E2.2

Gunn & Associates, P.C.
Consulting Engineers
1102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA/254140

A21 CABINET SCHEDULE													
CABINET ID: DIM													
WIRING NUMBER	WIRING TYPE	QUANTITY	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE	WIRING TYPE
1	74179	DUAL	ND	A	2.4								
2	74179	DUAL	ND	B	2.4								
3	74179	DUAL	ND	C	2.4								
4	74179	DUAL	ND	A	2.4								
5	74179	DUAL	ND	B	2.4								
6	74185	DUAL	M7	C	2.0								
7	74185	DUAL	M7	A	2.0								
8	74185	DUAL	M7	B	2.0								
9	74185	DUAL	M7	C	2.0								
10	74185	DUAL	M7	A	2.0								
11	74185	DUAL	M7	B	2.0								
12	74185	DUAL	M7	C	2.0								

NOTES:

1. SEE DIMMER RACK FOR WIRING DETAILS.

2. SEE DIMMER RACK FOR WIRING DETAILS.

3. SEE DIMMER RACK FOR WIRING DETAILS.

4. SEE DIMMER RACK FOR WIRING DETAILS.

5. SEE DIMMER RACK FOR WIRING DETAILS.

6. SEE DIMMER RACK FOR WIRING DETAILS.

7. SEE DIMMER RACK FOR WIRING DETAILS.

8. SEE DIMMER RACK FOR WIRING DETAILS.

9. SEE DIMMER RACK FOR WIRING DETAILS.

10. SEE DIMMER RACK FOR WIRING DETAILS.

11. SEE DIMMER RACK FOR WIRING DETAILS.

12. SEE DIMMER RACK FOR WIRING DETAILS.

DIMMING SYSTEM NOTES:

- WHEREVER CONTROL WIRES SHOWN MUST BE RUN CLOSE TO A.C. CONTROL AND/OR POWER CIRCUITS, THESE CONTROL WIRES MUST BE RUN IN SEPARATE METAL CONDUIT.
- INCLUDE MINIMUM 10% SPARES IN EACH CONTROL RUN.
- PROVIDE AN EQUIPMENT GROUND, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, BETWEEN BUILDING SERVICE ENTRANCE AND THE DIMMER RACK.
- BACK BOXES OF CONTROL STATIONS MUST BE GROUNDED.
- SEPARATE NEUTRAL IS REQUIRED FOR EACH CIRCUIT.
- ALL CONTROL CABLES MUST BE INSTALLED AS DEPICTED IN THE TOPOLOGY SHOWN IN THE SYSTEM RISER DRAWING. IT IS NOT PERMISSIBLE TO HAVE BRANCHING RUNS, STUB RUNS OR "WYE" CABLE TOPOLOGIES.

WIRES AND CABLES

- 1

(1) BELDEN #1583A CABLE
(DO NOT EXCEED 1000 TOTAL FT.)
- 1S

(1) BELDEN #1583A CABLE; SWITCHED VISION.NET
(DO NOT EXCEED 1000 TOTAL FT.)
- D0

(1) BELDEN #9829 CABLE
- 2

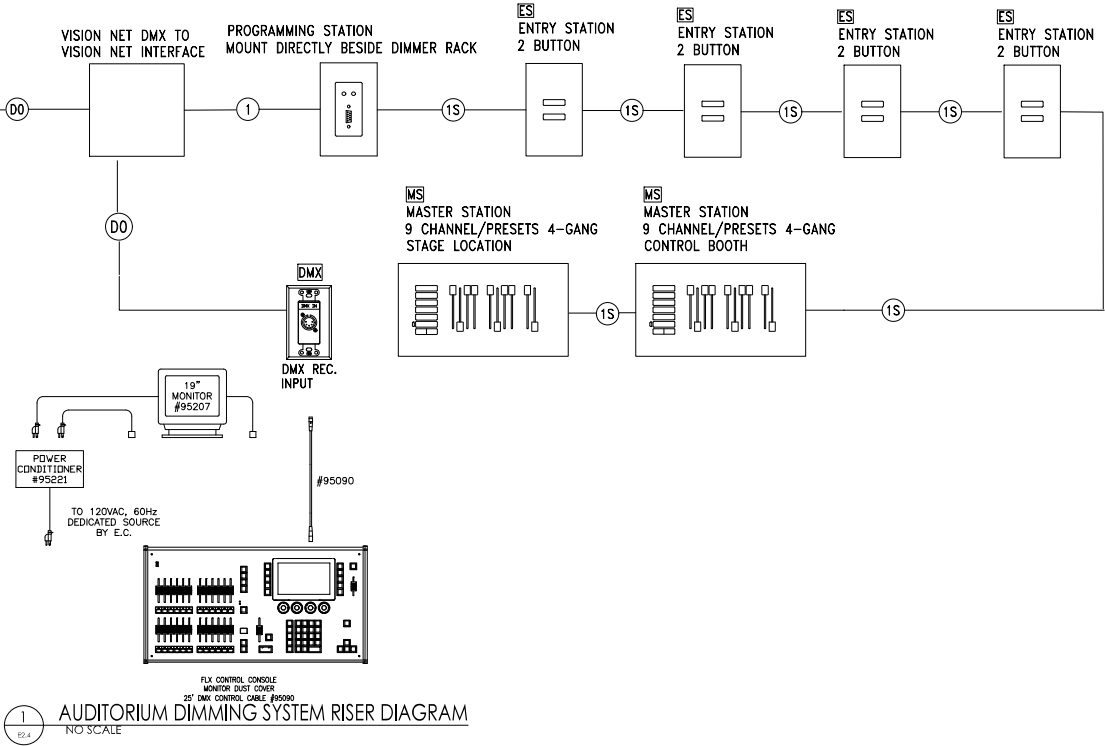
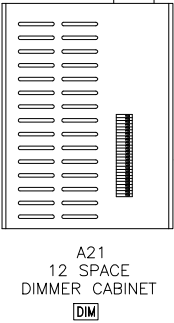
2-#14 STRANDED CONTROL WIRE FROM DIMMER MODULE
- F1

3 PHASE - 60AMP FEEDER

CONTACT CONTROL LIGHTING PANEL:

- LOW VOLTAGE RELAY BASED CONTROL SYSTEM.
- REMOVABLE COVER ALLOWS ACCESS
- INDIVIDUAL 20 AMP AROMAT PLUG-IN MECHANICALLY LATCHING RELAYS AVAILABLE IN SINGLE AND DOUBLE POLE, RELAYS RATED 20 AMP AT 347 VOLTS.
- POWER SUPPLY OPTIONS FOR 120, 230, 277, 347 VOLTS.
- LOCAL PUSH BUTTON TEST SWITCHES FOR EACH RELAY.
- FULL VISION.NET ARCHITECTURAL CONTROL SYSTEM SUPPORT WITH INTERNAL TIME CLOCK.
- CONFIGURATION VIA LOCAL LCD SCREEN OR REMOTE SETUP VIA PERSONAL COMPUTER.
- DMX512, VISION.NET, PANIC, AND ETHERNET (OPTIONAL) CONNECTIVITY.
- UL924 LISTED EMERGENCY CONTACT INPUT.
- ETL LISTED.

TO 20 AMP, 2 WIRE
LOAD CIRCUITS



Goshen High Shool Arts Center Renovation

TO
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FOR THE
Pike County Board of Education

Troy, ALABAMA

MCKEE and ASSOCIATES

ARCHITECTURE and INTERIOR DESIGN



SHEET TITLE : DIMMING SYSTEM RISER
DIAGRAM, DETAILS, AND
NOTES

MCKEE JOB # : 20.119

DRAWN BY : J. TILLERY

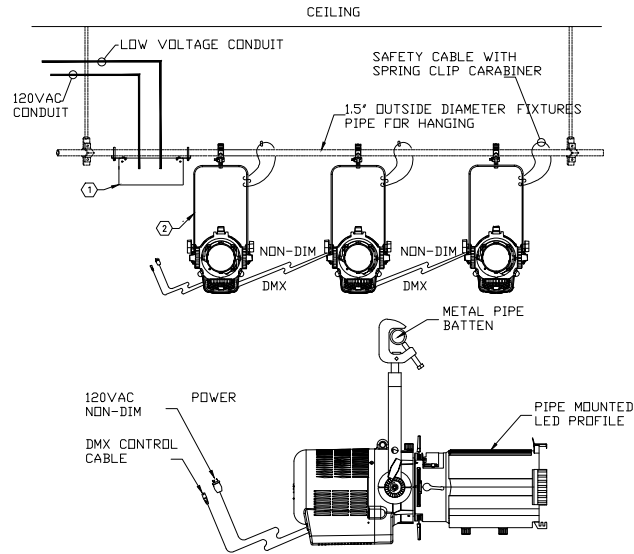
DATE: 10-10-2025

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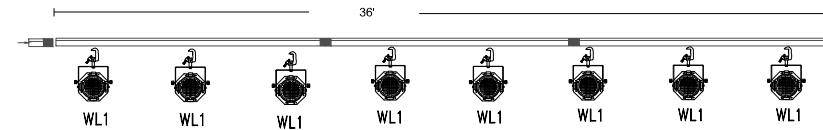
SHEET NO. : E2.3



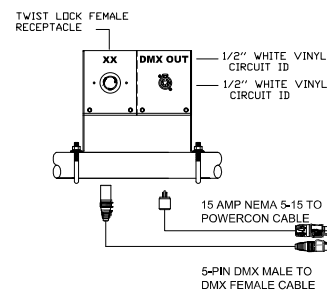
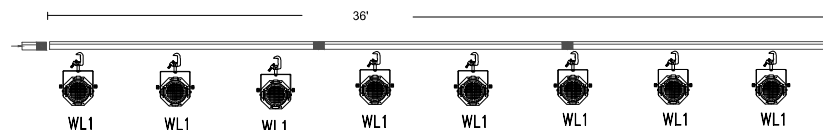
CONNECTION DETAIL - HOUSE LIGHTING

1. PIPE MOUNTED PLUG-BOX. ALTMAN 450 SERIES. BLACK POWDER COAT FINISH. 2 QTY. NEMA 5-15 EDISON CONNECTORS AND 2 QTY. DMX OUTPUTS. OUTPUTS SHALL BE 5PIN DMX XLR CONNECTOR
2. ZOOM LENS LED PROFILE WITH MALLEABLE IRON PIPE CLAMP, COLOR FRAME, RIGID STEEL YOKE, SAFETY CABLE, DUAL LOCKING TILT HANDLES, & 3' 120VAC POWER CABLE

Qty.1 TRACK SYSTEM #2
ATLMAN SMART TRACK -ASL-23330-X-X
2 Circuits per section-DMX CONTROL
MOUNTED TO CEILING GRID

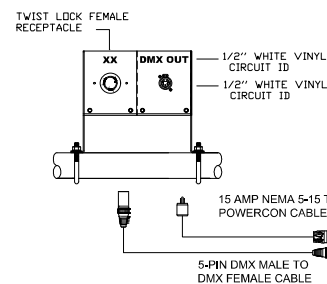
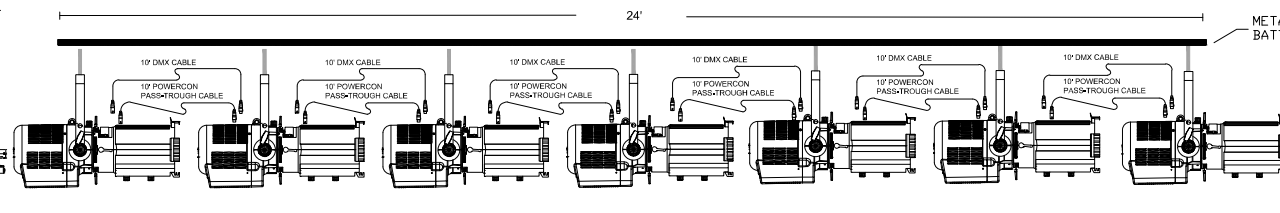


Qty.1 TRACK SYSTEM #1
ATLMAN SMART TRACK -ASL-23330-X-X
2 Circuits per section-DMX CONTROL
MOUNTED TO CEILING GRID

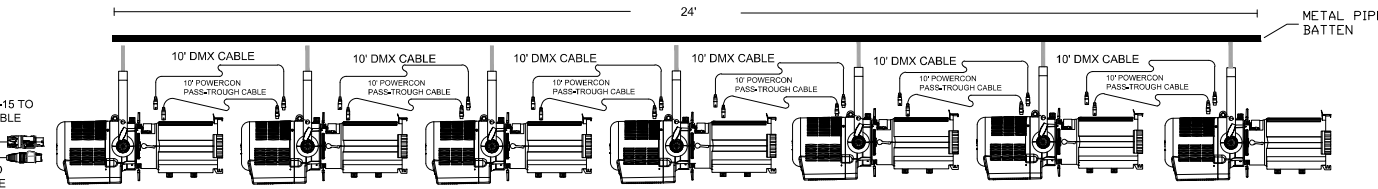


SEATING AREA FIXTURES FOH LEFT

QUANTITY: (1) 1-CCT PIPE MOUNT BOXES
MODEL NO. PM-1-L520R-1-DMX5PF
8" BAL PIPE MOUNT BOX WITH:
(1) L520 TWIST LOCK FEMALE RECEPTACLES WIRED ON (1) CIRCUITS.
(1) DMX 5 PIN FEMALE RECEPTACLE WITH VOLTAGE BARRIER.



SEATING AREA LIGHTING FIXTURES FOH RIGHT



GENERAL NOTES

1. OVERHEAD PIPE, RIGGING AND MECHANICAL CONNECTIONS ARE NOT PART OF THIS PACKAGE.
2. ALL PRODUCTION LIGHTING POWER SHALL BE SWITCHED VIA REMOTE RELAY PANEL.
3. PORTABLE CABLE IS INCLUDED IN THIS PACKAGE. PERMANENTLY INSTALLED CABLING IS NOT PART OF THIS PACKAGE.
4. INSTALLED DMX CABLE CAN BE BELDEN 9729 OR CAT5E. ALL PORTABLE DMX CABLE SHOULD BE DUAL TWISTED PAIR & SHIELD, 22 AWG BLACK POLYURETHANE JACKET.
5. POWERCON CONNECTIONS ARE STANDARD POWERCON, NOT NEUTRIK TRUE 1.
6. ALL DMX CONNECTORS SHOULD BE 5-PIN XLR STYLE.
7. ALL FIXTURES OVER STAGE TO BE MOUNTED 15 FEET ABOVE FINISHED FLOOR LEVEL AT A MINIMUM.
8. ALL FIXTURES TO BE HUNG ON PIPE DRIFTED NO FURTHER THAN 2' FROM FINISHED CEILING HEIGHT.
9. LABELING AND NUMBERING SCHEME TO BE AGREED PER PROJECT.

Goshen High Shool Arts Center Renovation

TO
Goshen High School

FOR THE
Pike County Board of Education

Troy, ALABAMA

McKEE and ASSOCIATES
ARCHITECTURE and INTERIOR DESIGN
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : DIMMING SYSTEM RISER
DIAGRAM, DETAILS, AND
NOTES

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

REVISED DATE:

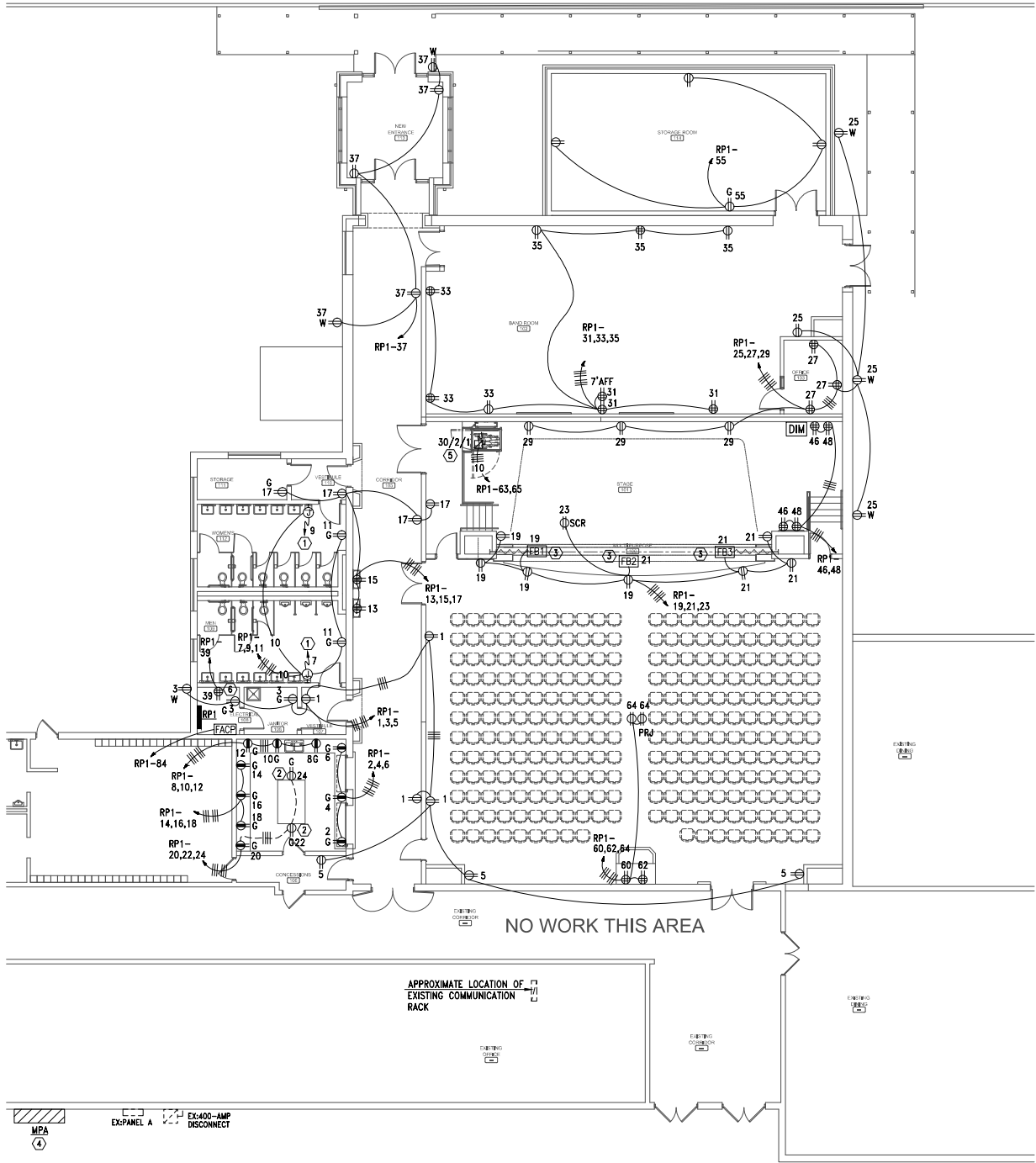
REVISED DATE:

REVISED DATE:

SHEET NO. : E2.4

2 DEAD HUNG 1ST ELECTRIC, 2ND ELECTRIC, AND FRONT OF HOUSE DETAILS
NO SCALE

G Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
G/A/25440



GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90, SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

SHEET NOTES:

- ① PROVISIONS FOR ELECTRIC HAND DRYER. IF ELECTRIC HAND DRYER NOT PROVIDED, MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
- ② PROVIDE ALUMINUM POWER POLE TO MOUNT RECEPTACLE BY TABLE. SECURE TO FLOOR AND CEILING.
- ③ PROVIDE POWER OUTLET IN FLOOR BOX.
- ④ COORDINATE WITH UTILITY COMPANY FOR NEW OVERHEAD SECONDARY SERVICE. LOCATE PANEL ON CLEAR BRICK WALL ADJUST LOCATION AS NEEDED.
- ⑤ COORDINATE POWER FEED TO HANDICAP LIFT. ADJUST AS REQUIRED. PROVIDE RACEWAYS AS NEEDED FOR CONTROLS.
- ⑥ MOUNT RECEPTACLE AT HEIGHT REQUIRED FOR COMM RACK.

Goshen High School Arts Center Renovation

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ARCHITECTURE and INTERIORS DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 534-9933



SHEET TITLE : PARTIAL FLOOR PLAN - POWER

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E3.1



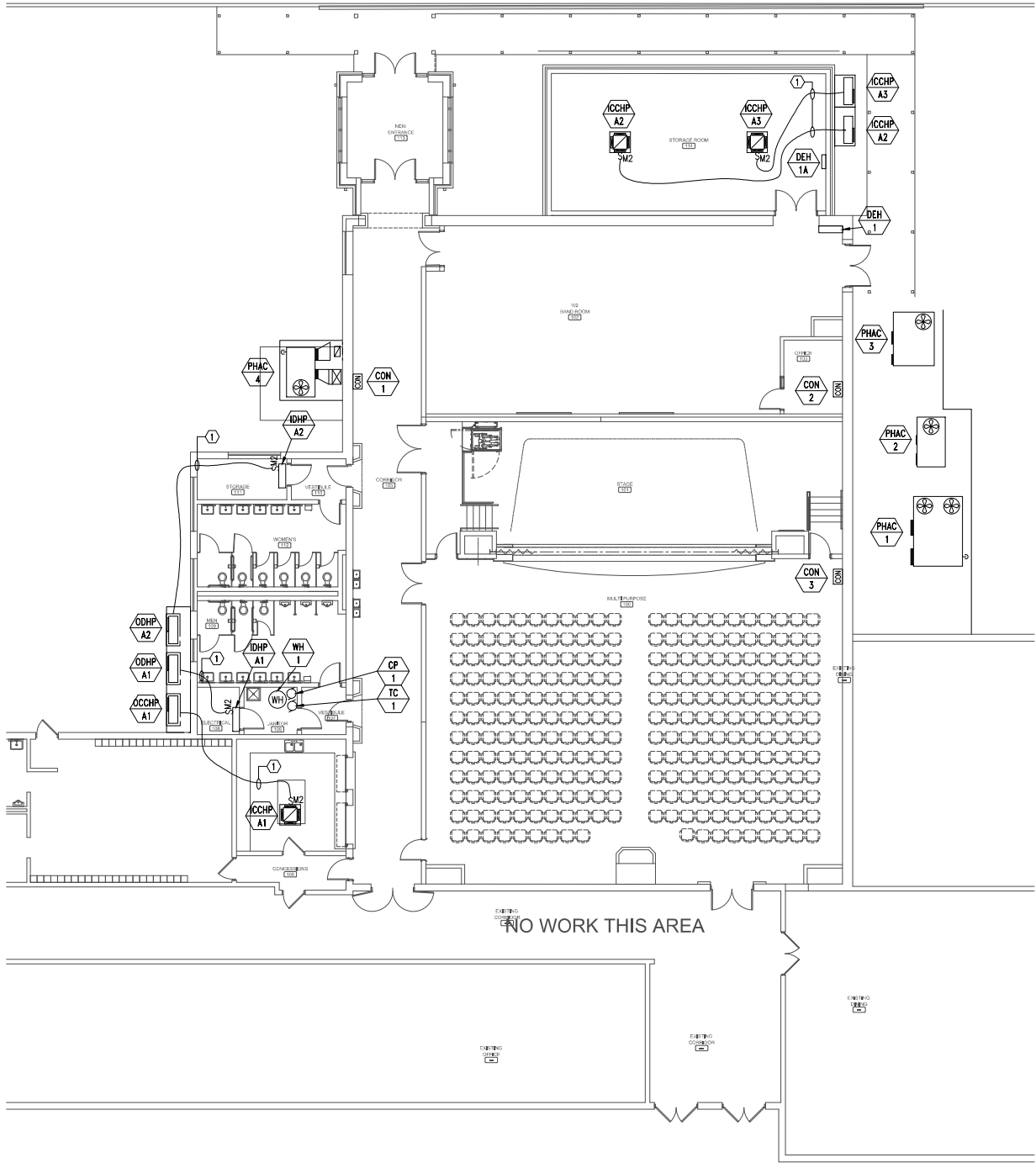
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SCALE: 1/8"=1'-0"

PARTIAL FLOOR PLAN - POWER



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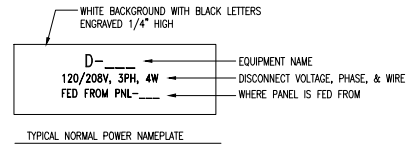
1 PARTIAL FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8"=1'-0"

GENERAL NOTES:

- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
- COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
- ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
- CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
- COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON SHEET ES.2 FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
- SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.

SHEET NOTES:

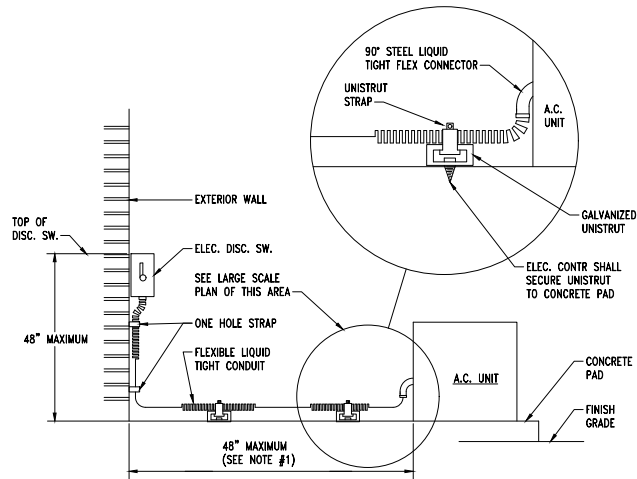
- ① INTERIOR UNIT RECEIVES POWER FROM THE EXTERIOR UNIT. PROVIDE INTERCONNECTING CIRCUITRY AS NEEDED IN CONDUIT TO CONNECT THE INTERIOR UNIT.



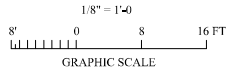
2 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

NOTE:

1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



3 MECHANICAL UNIT CONNECTION DETAIL
NO SCALE



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3102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
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McKEE and ASSOCIATES

ARCHITECTURE and INTERIORS DESIGN
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 534-9933



SHEET TITLE : PARTIAL FLOOR PLAN -
MECHANICAL POWER

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E3.2

GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. COORDINATE WITH AUXILIARY SYSTEMS RISER DIAGRAMS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

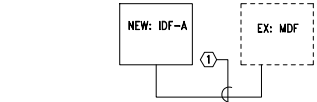
- ① PROVIDE TWO CAT 6 OUTLETS AND CABLES TO FLOOR BOX.
- ② PROVIDE FIRE ALARM CONTROL MODULE TO MUTE SOUND SYSTEM UPON ACTIVATION FROM FIRE ALARM SYSTEM.
- ③ PROVIDE FLUSH MOUNTING FOR FIRE ALARM ANNUNCIATOR PANEL.
- ④ MOUNT ABOVE DOOR AND UNDER CANOPY.
- ⑤ MOUNT 12" AFF.
- ⑥ MOUNT AT HEIGHT DIRECTED BY PIKE COUNTY BOE IT DEPARTMENT TO FACILITATE COVERAGE TO PARKING LOT.
- ⑦ MOUNT CO DETECTOR WITHIN 6' OF FIRST DIFFUSER OF HVAC UNIT IN SPACE.

COMMUNICATION NOTES:

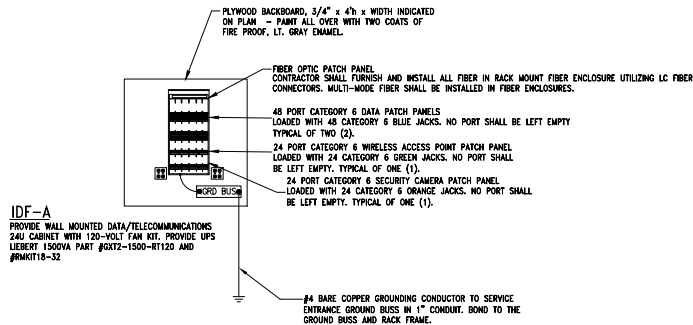
1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDANT PAINT. MOUNT 2" AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MALE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.

RISER DIAGRAM KEYED NOTES:

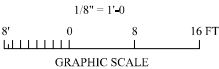
- ① CONTRACTOR SHALL PROVIDE A 6 STRAND OM3 MM 50-MICRON FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE NEW IDF. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING MDF IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. PROVIDE J-HOOKS ABOVE CEILINGS TO SUPPORT FIBER IN CONCEALED AREAS. PROVIDE CONDUIT IN EXPOSED AREAS.



3 COMMUNICATIONS RISER DIAGRAM
NO SCALE



2 IDF-A RACK ELEVATION
NO SCALE



Gunn & Associates, P.C.
Consulting Engineers
1102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA025440

Goshen High Shool Arts Center Renovation

TO
Goshen High School
FOR THE
Pike County Board of Education
Troy, ALABAMA

McKEE and ASSOCIATES
ARCHITECTURE and INTERIORS DESIGN
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : PARTIAL FLOOR PLAN -
AUXILIARY

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

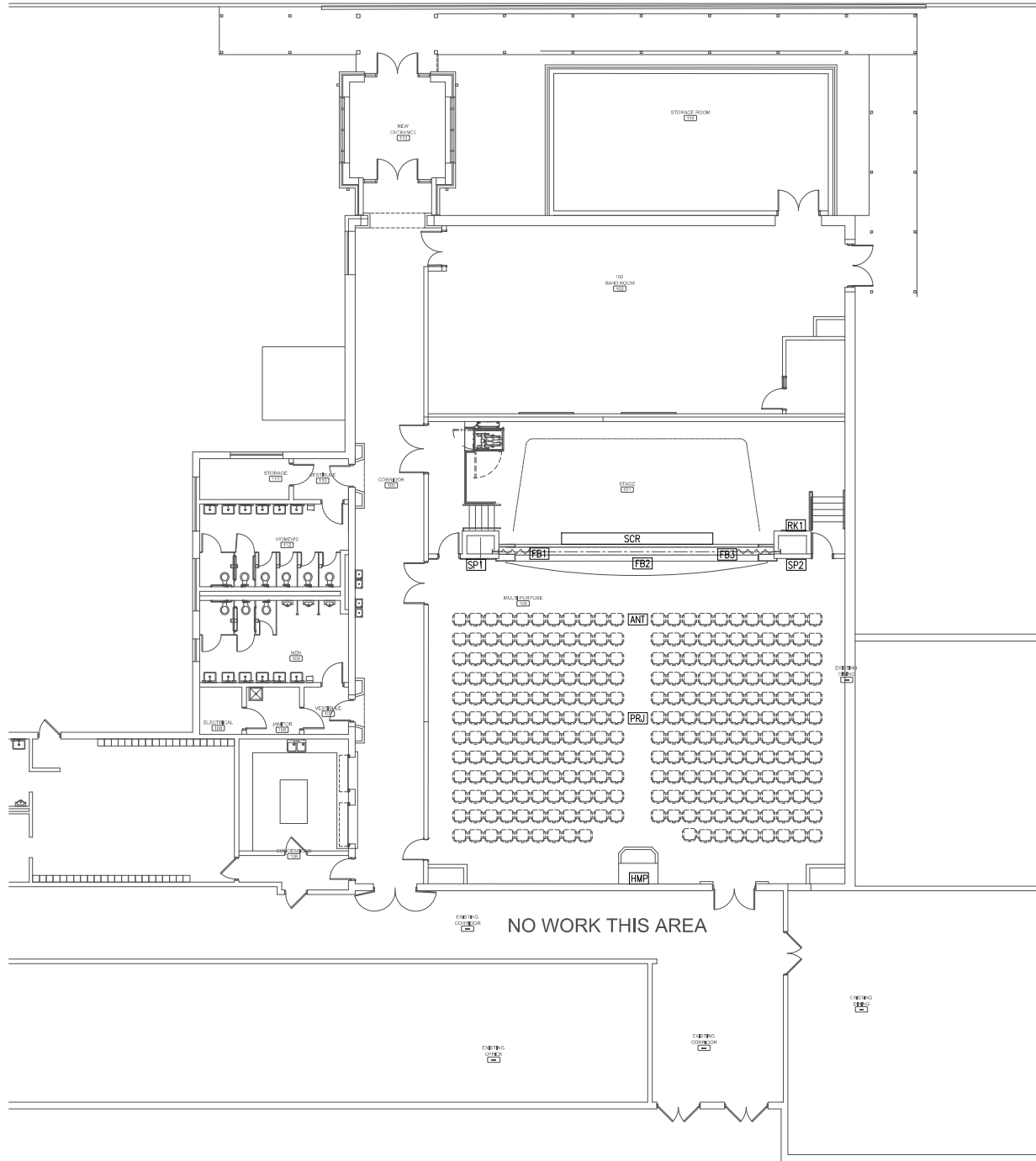
DATE: 10-10-2025

REVISED DATE:

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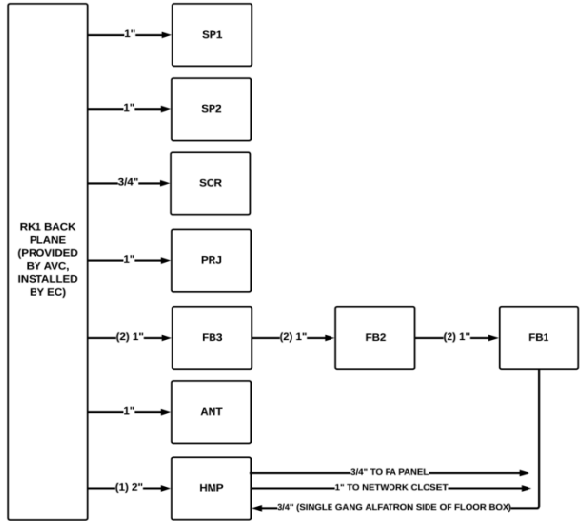
SHEET NO. : E4.1



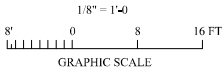
1 PARTIAL FLOOR PLAN - AUDIO VISUAL
SCALE: 1/8"=1'-0"

AV DEVICE	DEVICE SYMEO	ELEVATION	BACK BOX	AC POWER BY EC	NOTES 1	NOTES 2	NOTES 3
YAMAHA CBR15 SPEAKER AND WALL MOUNT	TYPICAL SP1 & SP2	FLUSH MOUNTED APPROX. 12FT AFF - RECONFIRM ELEVATION WITH EE @ SUBMITTAL STAGE	HBL #985		POINTS OUT AT AUDIENCE AS REQUIRED	SUSPENDED VIA WALL MOUNT, GRIPPLE SAFETY CABLE, HARDWARE AS REQUIRED, ETC.	
DRAPER MOTORIZED FRONT PROJECTION SCREEN	SCR	SURFACE MOUNT BEHIND PROSCENIUM WALL - RECONFIRM ELEVATION WITH EE @ SUBMITTAL STAGE. GC TO STRUCTURAL SUPPORT AS REQUIRED TO MOUNT PROJECTION SCREEN	INTEGRAL PROJECTION SCREEN POWER & LOW VOLTAGE BOX	(1) 15 AMP 120VAC CIRCUIT. DIRECT WIRE INTO SCREEN HOLDING BYEC	AVC TO PROVIDE ADDITIONAL BLACK DROP AS REQUIRED FOR SCREEN FINAL PLACEMENT IN ORDER TO CLEAR BOTTOM OF PROSCENIUM WALL. RECONFIRM @ SUBMITTAL STAGE		
RF VENUE ANTENNA	ANT	SURFACE MOUNT TO DRYWALL CEILING	HBL #985				
LOWELL RACK	RK1	RACK IS BACK PLANE MOUNTED AT FLOOR LEVEL AND SECURED TO WALL	LOWELL BACK PLANE	(2) 20 AMP 120VAC CIRCUITS BY EC HARD WIRED TO AVC PROVIDED - (2) JUICE GOOSE CQ220			
FSR 400 SERIES FLOOR BOXES	TYPICAL FB1, FB2, FB3	FLUSH IN FLOOR	FSR 400 SERIES 6" DEEP BACK BOX	(1) 20 AMP 120VAC DUPLEX RECEPTACLE CIRCUIT BY EC	(2) RDL DUAL XLR MALE/FEMALE BY AVC	ALFA TRON HDMI TX. MOUNTED IN FB1 BY AVC	
EKI PROJECTOR	PRJ	JUNCTION BOX MOUNTED AT CEILING LEVEL AS REQUIRED. RECONFIRM ELEVATION @ SUBMITTAL STAGE	HBL 985 (FOR LV ONLY USE)	(1) 120VAC 20 AMP DUPLEX CIRCUIT BY EC	AVC TO RECONFIRM PROJECTOR PLACEMENT @ SUBMITTAL STAGE OFF PROJECT		
HOUSE MIX POSITION	HMP	6" AFF TO BOTTOM	12"X18"X6" FLUSH MOUNT SCREW COVER BOX	(2) 20 AMP 120VAC CIRCUITS BY EC HARD WIRED TO AVC PROVIDED - (2) JUICE GOOSE CQ220	EC - SEE CONDUITS TO FA PANEL AND NETWORK CLOSET		

4 AV BACK BOX SCHEDULE, ELEVATIONS, AC CIRCUITS, TABLE
AC POWER CIRCUIT REQUIREMENTS SHOWN ABOVE



2 AV LOW VOLTAGE CONDUIT RISER
AC CONDUITS NOT SHOWN FOR CLARITY - SEE AC CIRCUIT TABLE FOR POWER REQUIREMENTS & LOCATIONS



Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334-285-1273

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GA025440

Goshen High School Arts Center Renovation

TO
Goshen High School

FOR THE
Pike County Board of Education

Troy, ALABAMA



SHEET TITLE : PARTIAL FLOOR PLAN -
AUDIO VISUAL

MCKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

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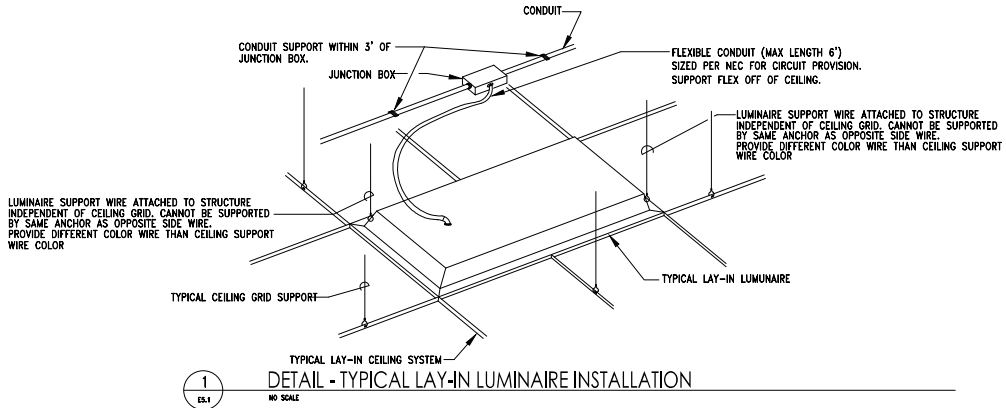
SHEET NO. : E4.2

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LIGHTING FIXTURE SCHEDULE						
TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
D1	PRESCOLITE NO. L176R4W4NOLKORINDOMK14TR6R4W4S OR PRIOR APPROVED EQUAL BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	2000 LUMEN	6 INCH 2000 LUMEN LED DOWNLIGHT 3000K TEMPERATURE LAMPS AND FEATURE REMOTE PHOSPHOR TECHNOLOGY ENABLING A HIGH SYSTEM EFFICACY AND MINIMUM 80 CRI, 0/10V DIMMING
D2	PRESCOLITE NO. L176R4W4NOLKORINDOMK14TR6R4W4S OR PRIOR APPROVED EQUAL BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	3000 LUMEN	6 INCH 3000 LUMEN LED DOWNLIGHT 4000K TEMPERATURE LAMPS AND FEATURE REMOTE PHOSPHOR TECHNOLOGY ENABLING A HIGH SYSTEM EFFICACY AND MINIMUM 80 CRI, WET LOCATION
LG22	HUBBELL NO. SRP24W4VLS-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	4800 LUMEN	2'X2' 4800 LUMEN FLAT PANEL FIXTURE, 0/10V DIMMING CAPABLE,
LG48	HUBBELL NO. SRP24W4VLS-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	5000 LUMEN	2'X4' 5000 LUMEN FLAT PANEL FIXTURE, 0/10V DIMMING CAPABLE,
LG60	HUBBELL NO. SRP24W4VLS-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	6000 LUMEN	2'X4' 6000 LUMEN FLAT PANEL FIXTURE, 0/10V DIMMING CAPABLE,
LG72	HUBBELL NO. SRP24W4VLS-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	7200 LUMEN	2'X4' 7200 LUMEN FLAT PANEL FIXTURE, 0/10V DIMMING CAPABLE,
LW1	COOPER NO. 44N543024MINV OR EQUALS BY HUBBELL OR PHILIPS	120VOLT	SURFACE	LED	SELECTABLE 4,500/5,300/6,100	4" LED WRAPAROUND WITH SELECTABLE LIGHT OUTPUTS, SELECT HIGH LUMEN SETTING AND 4,000K CCT, CONTRACTOR SHALL ADJUST THE SETTING TO THE ENGINEER SATISFACTION AT NO ADDITIONAL COST,
PL1	ALITRAK NO. SPFH40R014W40N4WSP1NSP1PL1WFL40S3846W40N4W40 OR PRIOR APPROVED EQUALS	120	Pipe BATTEN	RGBW LED DMX	1	THEATRICAL LIGHTING WITH SAFETY CABLE ATTACHMENT AND CABLE, SEE DETAIL SHEET E27 FOR FURTHER DETAILS, 50,000 HOURS AT L70 MINIMUM,
WL1	ALITRAK NO. SPFH40R014W40N4WSP1NSP1PL1WFL40S3846W40N4W40 OR PRIOR APPROVED EQUALS	120	TRACK	LED	1	LED TRACK MOUNTED PAR LUMINAIRE 50,000 HOURS AT L70 MINIMUM, SEE DETAIL SHEET E27 FOR FURTHER DETAILS,
WP1	COOPER NO. G10V624W40N4W40N4W40K OR PRIOR APPROVED EQUALS BY HUBBELL OR WILLIAMS	120VOLT	WALL	LED	7,500 LUMEN	7500 LUMEN DARK BRONZE EXTERIOR LED LIGHT WITH SURGE PROTECTION, UL LISTED FOR WET LOCATIONS,
EM WALL PACK	COMPASS NO. CUDH10H050 • WIREGUARDS IN GYM OR PRIOR APPROVED EQUAL BY ENERGILITE, MOBILESEN, OR PRESCOLITE	120VOLT	WALL	LED	1000 LUMEN	1000 LUMEN LED EMERGENCY WALL PACK
EXIT SIGN COMBO	DUAL-LITE NO. EVCHL07W120H18 OR PRIOR APPROVED EQUAL BY ENERGILITE, MOBILESEN, OR PRESCOLITE	120VOLT	UNIVERSAL	LED	1000 LUMEN	THERMOPLASTIC 1000 LUMEN COMBO LED EXIT SIGN EGRESS LIGHT, PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS, PROVIDE WITH EMERGENCY BATTERY, PROVIDE WIREGUARDS IN GYM,
“X”						
NOTES: 1, ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW, BID ACCORDINGLY, 2, COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION 3, PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90 MINUTES, ALL EMERGENCY LIGHTS IN SAFE AREA SHALL BE CONNECTED TO THE BATTERY INVERTER FOR 180 MINUTES OF RUN TIME, 4, FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA, SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT, 5, ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE, 6, ALL EXTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, 7, LIGHTS SPECIFIED WILL BE USED AT BOTH 120V AND 277V CIRCUITS, PROVIDE UNIVERSAL TYPE VOLTAGE DRIVERS FOR ALL LIGHT FIXTURES, IF A SPECIFIC VOLTAGE IS REQUIRED, LIGHTING MANUFACTURER AND CONTRACTOR SHALL WORK TOGETHER TO PROVIDE THE REQUIRED VOLTAGES FOR EACH OF THE DIFFERENT FACILITIES, ENGINEER WILL NOT BE RESPONSIBLE FOR THIS COORDINATION DURING SUBMITTALS, WE WILL ASSUME THE VOLTAGE SUBMITTED IS CORRECT,						

NOTES:

- ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
- LUMINAIRE SUPPORT WIRES TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
- CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
- JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
- CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



1
E5.1
DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION
NO SCALE

LUMINAIRE NOTES:

- ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
- ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
- ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
- ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
- ALL FLUORESCENT LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
- CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information
Agency Code: 90.1 (2013) Standard
Project Title: Goshen High School Arts Center Renovation to Goshen High School
Project Type: New Construction
Construction Site: Owner/Agent: MCKEE & ASSOCIATES Designer/Consultant: JASON TILLERY, GUNN & ASSOCIATES, MILLSBORO, AL

Allowed Interior Lighting Power
A Area Category B Floor Area (SQ FT) C Allowed Watts / SQ FT D Allowed Watts (B X C)
AUDITORIUM (Common Space Types: Auditorium Seating Area) 6862 6.63 6639

Proposed Interior Lighting Power
A Feature B Description / Lamp / Wattage Per Lamp / Ballast C Lamps / Fixture D # of Fixtures E Total Watts (C X D)
AUDITORIUM (Common Space Types: Auditorium Seating Area)
L046 Other 1 21 36 756
L046 Other 1 14 36 432
L072 Other 1 16 76 1216
L082 Other 1 2 92
Total Proposed Watts = 2704

Interior Lighting / ASSES: Design 95% better than code

Interior Lighting Compliance Statement
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements. (COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.)
JASON TILLERY (ELECTRICAL DESIGNER) Signature: Jason Tillery Date: 09-04-2025 Name: Tillery

Project Title: Goshen High School Arts Center Renovation to Goshen High School Report Date: 09/04/25
Data Reference: Goshen-HS-2025-146-GOSHEN HIGH SCHOOL, AUDITORIUM Compliance to GOSHEN AUDITORIUM ENERGY STUDY.xlsx Page: 1 of 6

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information
Agency Code: 90.1 (2013) Standard
Project Title: Goshen High School Arts Center Renovation to Goshen High School
Project Type: New Construction
Exterior Lighting Zone: 1 (Developed rural area (L2.1))
Construction Site: Owner/Agent: MCKEE & ASSOCIATES Designer/Consultant: JASON TILLERY, GUNN & ASSOCIATES, MILLSBORO, AL

Allowed Exterior Lighting Power
A Area Category B Quantity C Allowed Watts / Unit D Total Watts (B X C) E Allowed Watts (B X C)
Walkway < 10 feet wide 798.00 0.7 558 432

Proposed Exterior Lighting Power
A Feature B Description / Lamp / Wattage Per Lamp / Ballast C Lamps / Fixture D # of Fixtures E Total Watts (C X D)
Walkway < 10 feet wide 798.00 0.7 558 432
LED 1 Other 1 2 32 64
LED 2 Other 1 5 45 225
Total Proposed Watts = 547

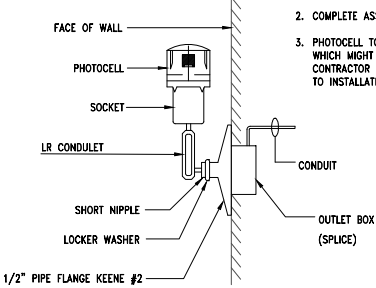
Exterior Lighting / ASSES: Design 71% better than code

Exterior Lighting Compliance Statement
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements. (COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.)
JASON TILLERY (ELECTRICAL DESIGNER) Signature: Jason Tillery Date: 09-04-2025 Name: Tillery

Project Title: Goshen High School Arts Center Renovation to Goshen High School Report Date: 09/04/25
Data Reference: Goshen-HS-2025-146-GOSHEN HIGH SCHOOL, AUDITORIUM Compliance to GOSHEN AUDITORIUM ENERGY STUDY.xlsx Page: 2 of 6

NOTES

- PAIN CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
- COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



2
E5.1
DETAIL - INSTALLATION OF PHOTO-CELL
NO SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millsboro, AL 36054
Tel: 334-285-1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
G/A/254/40

Goshen High School Arts Center Renovation

TO
Goshen High School

FOR THE
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SHEET TITLE : LIGHTING SCHEDULE,
DETAILS & NOTES

MCKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE: 10-10-2025

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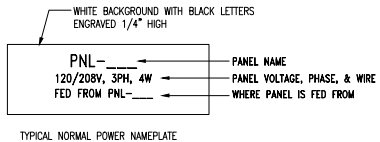
SHEET NO. : E5.1

PANEL - MPA													
TYPE: 1000 AMP NCB			AIC: 85,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE				AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C	PHASE A						PHASE B	PHASE C		
EX-400 DISCONNECT	20,000				400	3	1	2	225		24,515		NEW PANEL RP1
		20,000					3	4			20,000		
			20,000				5	6	3			28,120	
PHAC1	10,368				150	3	7	8	88	3	5,760		PHAC3
		10,368					9	10			5,760		
			10,368				11	12	3			5,760	
PHAC2	4,128				50	3	13	14	88	3	4,128		PHAC4
		4,128					15	16			4,128		
			4,128				17	18	3			4,128	
SPARE					125	3	19	20	88	3	5,000		SPARE
							21	22			5,000		
							23	24	3			5,000	
EX-PANEL A	13,000				225	3	25	26	225				SPARE
		13,000					27	28					
			13,000			3	29	30		3			
BUSSED SPACE					225	3	31	32	225				BUSSED SPACE
							33	34					
						3	35	36		3			
BUSSED SPACE					125	3	37	38	125				BUSSED SPACE
							39	40					
						3	41	42		3			
SUB TOTAL (VA)	47,456	47,456	47,456								38,403	42,978	43,008
TOTAL LOAD PHASE A: 88,899 (VA)													
TOTAL LOAD PHASE B: 90,474 (VA)													
TOTAL LOAD PHASE C: 90,534 (VA)													
TOTAL LOAD: 267,877 (VA) = 744 AMPS													
NOTES:													
1, PANELBOARD TO BE BOLTON TYPE,													
2, PROVIDE WITH INTEGRAL TVSS WITH 120,000 AMPS PER MODE PROTECTION,													
3, PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING, SEE DETAIL,													
4, PROVIDE ARC FAULT LABELS PER DETAIL,													
5, PANEL SHALL BE UL FOR SERVICE ENTRANCE,													
6, PROVIDE NEMA 3R ENCLOSURE,													

PANEL - RP1												
TYPE: 225 AMP NCB LUG			400-80,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
RECEPTACLES	1,200			20	1	1	2	20	1,200			RECEPTACLES
RECEPTACLES		1,200		20	1	3	4	20		1,200		RECEPTACLES
RECEPTACLES			1,200	20	1	5	6	20			1,200	RECEPTACLES
HAND DRYER	1,500			20	1	7	8	20	1	1,200		RECEPTACLES
HAND DRYER		1,300		20	1	9	10	20		1,200		RECEPTACLES
RECEPTACLES			1,200	20	1	11	12	20			1,200	RECEPTACLES
EMC	900			20	1	13	14	20	1	1,200		RECEPTACLES
EMC		900		20	1	15	16	20		1,200		RECEPTACLES
RECEPTACLES			1,200	20	1	17	18	20			1,200	RECEPTACLES
RECEPTACLES	1,200			20	1	19	20	20	1	1,200		RECEPTACLES
RECEPTACLES		1,200		20	1	21	22	20		1,200		RECEPTACLES
RECEPTACLES			1,200	20	1	23	24	20			1,200	RECEPTACLES
RECEPTACLES	1,500			20	1	25	26	20	1	600		CM1 & TCM
RECEPTACLES		1,200		20	1	27	28	30		2,650		WHM
RECEPTACLES			1,200	20	1	29	30	30	2	2,650		
RECEPTACLES	1,200			20	1	31	32	30	1	1,581		ODCHW1
RECEPTACLES		1,200		20	1	33	34	15	2		1,581	ODHPW1
RECEPTACLES			1,200	20	1	35	36	15	2		832	ODHPW1
RECEPTACLES	1,200			20	1	37	38	15	2	832		ODCHW2
COMM RACK		1,200		20	1	39	40	15	2		832	ODHPW2
COMM1			800	20	1	41	42	2	2		832	ODCHW2
COMM2	800			20	1	43	44	20	1	600		DEH1
COMM3		800		20	1	45	46	20	1		1,200	RECEPTACLE
LIGHTING			1,235	20	1	47	48	20	1		1,200	RECEPTACLE
LIGHTING	1,345			20	1	49	50	30	2	1,581		ODCHW3
LIGHTING		1,416		20	1	51	52	2	2		1,581	ODCHW3
LIGHTING			1,080	20	1	53	54	30	2		1,581	ODCHW3
RECEPTACLES	800			20	1	55	56	20	2	1,581		DEH1A
SPARE				20	1	57	58	20	1		900	SPARE
SPARE				20	1	59	60	20	1		1,200	SPARE
EXT. SIGNAL LIGHTS	495			20	1	61	62	20	1	1,200		RECEPTACLES
CHURCH LIFT		2,880		30	1	63	64	20	1		1,200	RECEPTACLES
			2,880	2	65	66	20	1			1,200	RECEPTACLES
SPARE				20	1	67	68	20	1			SPARE
SPARE				20	1	69	70	20	1			SPARE
SPARE				20	1	71	72	20	1			SPARE
BUSSED SPACE				73	74	20	1					SPARE
BUSSED SPACE				75	76	20	1					SPARE
BUSSED SPACE				77	78	20	1					SPARE
BUSSED SPACE				79	80	20	1					SPARE
BUSSED SPACE				81	82	20	1					SPARE
BUSSED SPACE				83	84	20	1				600	FACE (NOTE 3)
SUB TOTAL (VA)	11,440	13,116	12,965						13,075	14,874	15,125	
TOTAL LOAD PHASE A:	24,515 (VA)											
TOTAL LOAD PHASE B:	28,080 (VA)											
TOTAL LOAD PHASE C:	28,120 (VA)											
TOTAL LOAD:	80,725 (VA) = 224 AMPS											
NOTES:												
1, PANELBOARD TO BE BOLTON TYPE WITH DOOR-IN-DOOR CONSTRUCTION,												
2, PROVIDE ARC FAULT LABEL PER DETAIL,												
3, PROVIDE LOCK HANDLE CIRCUIT BREAKER,												

PANELBOARD NOTES:

- PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
- ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
- PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
- FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
- ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
- PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
- ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
- COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.
- MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT SHALL BE RESPONSIBLE FOR PERFORMING A SHORT CIRCUIT ANALYSIS AND TIME-CURRENT COORDINATION (TCC) STUDY, WHICH DEMONSTRATES THAT THE UPSTREAM OVERCURRENT PROTECTIVE DEVICE NEAREST TO THE FAULT LOCATION WILL OPERATE BEFORE OVERCURRENT PROTECTIVE DEVICES WHICH ARE FURTHER UPSTREAM (I.E. SELECTIVE COORDINATION). INCLUDE COORDINATION STUDY IN THE SHOP DRAWING PACKAGE FOR THE PANELBOARDS FOR REVIEW BY THE ENGINEER OF RECORD. AIC RATINGS MAY BE LOWERED BASED ON STUDY.



1
E5.2

DETAIL - TYPICAL PANELBOARD NAMEPLATE



NOTES:

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE:
EQUIPMENT TYPE HEIGHT WIDTH
INDOOR 4" 6"
OUTDOOR 4" 6"

2
E5.2

ARC FLASH WARNING LABELS

NO SCALE

GENERAL EQUIPMENT SCHEDULE PART									
EQUIPMENT MARK	EQUIPMENT DESCRIPTION	VOLTAGE/PHASE	ELECTRICAL CHARACTERISTICS			DISCONNECT	FUSE	POWER/IN	FEEDER
			HP	KW	AMPS				
CON1	CONTROL PANEL	120V/1PH	---	0.800	---	TS	---	RP1 + 41	2#12 & 1#12GRD • 34°C
CON2	CONTROL PANEL	120V/1PH	---	0.800	---	TS	---	RP1 + 43	2#12 & 1#12GRD • 34°C
CON3	CONTROL PANEL	120V/1PH	---	0.800	---	TS	---	RP1 + 45	2#12 & 1#12GRD • 34°C
CP1	CIRC PUMP	120V/1PH	---	0.200	---	TS	---	RP1 + 26	2#12 & 1#12GRD • 34°C
DEH1	DEHUMIDIFIER	120V/1PH	---	0.800	---	TS	---	RP1 + 44	2#12 & 1#12GRD • 34°C
DEH1A	DEHUMIDIFIER	120V/1PH	---	0.800	---	TS	---	RP1 + 58	2#12 & 1#12GRD • 34°C
ODCHW1	DUCTLESS UNIT	208V/1PH	---	---	19	30/20R	F	RP1 + 50.52	2#10 & 1#10GRD • 34°C
ODCHW2	DUCTLESS UNIT	208V/1PH	---	---	19	30/20R	F	RP1 + 54.56	2#10 & 1#10GRD • 34°C
ODCHW3	DUCTLESS UNIT	208V/1PH	---	---	19	30/20R	F	RP1 + 32.34	2#10 & 1#10GRD • 34°C
ODHPW1	DUCTLESS UNIT	208V/1PH	---	---	11	30/20R	F	RP1 + 36.38	2#12 & 1#12GRD • 34°C
ODHPW2	DUCTLESS UNIT	208V/1PH	---	---	11	30/20R	F	RP1 + 40.42	2#12 & 1#12GRD • 34°C
PHAC1	GAS PACK UNIT	208V/3PH	---	---	108	200/30R	F	MPA + 7.9.11	3#10 & 1#10GRD • 21°C
PHAC2	GAS PACK UNIT	208V/3PH	---	---	43	80/30R	F	MPA + 10.15.17	3#6 & 1#10GRD • 114°C
PHAC3	GAS PACK UNIT	208V/3PH	---	---	60	100/30R	F	MPA + 8.10.12	3#3 & 1#8GRD • 114°C
PHAC4	GAS PACK UNIT	208V/3PH	---	---	43	80/30R	F	MPA + 14.16.18	3#6 & 1#10GRD • 114°C
TC1	TIME CLOCK	120V/1PH	---	0.200	---	TS	---	RP1 + 26	2#12 & 1#12GRD • 34°C
WH1	ELECTRIC WATER HEATER	208V/1PH	---	4.5	---	30/21 F	F	RP1 + 28.30	2#10 & 1#10GRD • 34°C

NOTES:

1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDD AND ACCOUNTED FOR IN THE CONTRACTORS BID PRICE.

2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.

3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.

4. "NIP" = NON-USED

5. "T" = FUSED

6. "TS" = MANUAL MOTOR STARTER (WITH THERMAL OVERLOAD (10" = WEATHERPROOF) (20AMP • 30AMP RATED)

7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.

8. "WIP" = WEATHERPROOF ENCLOSURE.

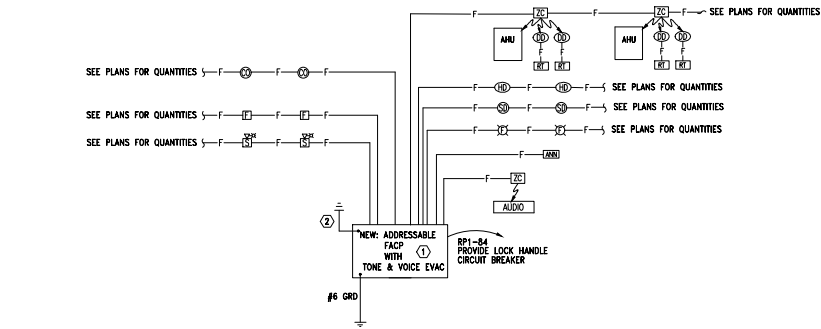
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO rough-IN.

FIRE ALARM SYSTEM NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
PRIMARY POWER - 120V AC
NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC
SIGNALING LINE CIRCUIT (SLC) - 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
18. "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP" DENOTES WEATHERPROOF DEVICE..
19. SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
20. CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.
21. CONTRACTOR SHALL COORDINATE WITH FIRE PROTECTION DRAWINGS AND PROVIDE MONITORING FOR ALL TAMPER, FLOW, AND SUPERVISORY SWITCHES AS REQUIRED PER NFPA. ALSO, COORDINATE AND PROVIDE HEAT DETECTORS WITHIN 1' OF EVERY SPRINKLER HEAD IN THE ELEVATOR SHAFT.

SHEET NOTES:

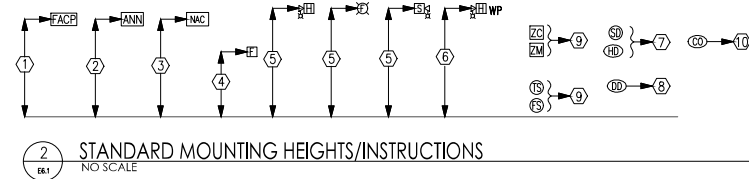
- ① PROVIDE TVSS PROTECTION ON ALL INCOMING POWER FEEDS.
- ② PROVIDE A UL LISTED CELLULAR COMMUNICATOR IN THE NEW FIRE ALARM PANEL. PROVIDE TWO YEARS OF CELLULAR MONITORING FROM THE DATE OF FINAL ACCEPTANCE.



1 FIRE ALARM RISER DIAGRAM
E6.1 NO SCALE

FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:

- ① MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
- ② MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
- ③ REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
- ④ MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
- ⑤ ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
- ⑥ WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
- ⑦ SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- ⑧ DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- ⑨ ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3-FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
- ⑩ MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.



EMERGENCY RADIO SYSTEM	
PROVIDE EMERGENCY RESPONDER RADIO SYSTEM TO MEET 2021 INTERNATIONAL FIRE CODE WITHIN THE BUILDING. SYSTEM SHALL MEET UL2524 AND COMPLY WITH IBC 2021 510.	
BASE BID:	
1. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST AT (3) LOCATIONS ON SITE WITHIN PROPOSED BUILDING FOOTPRINT. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE.	
2. PROVIDE SHOP DRAWING FOR A DISTRIBUTION ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE TO MEET 510.4. SHOP DRAWINGS SHALL INCLUDE AMPLIFIER INFORMATION, ANTENNA LOCATIONS/COVERAGE, BATTERY DATA.	
3. ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH NYLON PULL STRINGS AS REFLECTED ON DRAWINGS. CONDUIT SHALL BE INSTALLED AS BASED BID AND ARE NOT ALLOWED FOR USE WITH ANY OTHER SYSTEM. ALL EMERGENCY RESPONDER RADIO SYSTEM CONDUIT SHALL BE MARKED WITH "EDR".	
4. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST WITHIN THE BUILDING AT 80% COMPLETION OF CONSTRUCTION. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE. IF SIGNAL STRENGTH AT ANY PORTION OF THE BUILDING FALLS BELOW REQUIREMENTS OF IFC 510.4 AN EMERGENCY RESPONDER RADIO SYSTEM SHALL BE PROVIDED. SEE ALLOWANCE FOR ADDITIONAL INFORMATION.	
ALLOWANCE:	
1. IF THE TEST SIGNAL IS DEEMED NOT TO BE ACCEPTABLE THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING BY ALLOWANCE: PROVIDE AMPLIFIER, ANTENNA AND ALL ADDITIONAL REQUIRED SYSTEM PARTS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS (SEE ITEM 2 UNDER BASE BID ABOVE) AND IFC 2021 510.5. THIS INCLUDES OBTAINING PERMIT PER SECTION 510.3. THE SYSTEM SHALL BE RETESTED BY THE TESTING AGENCY PER 510.5.3 AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHALL FOR ACCEPTANCE.	

Goshen High Shoal Arts Center Renovation

TO

Goshen High School

FOR THE

Pike County Board of Education

Troy, ALABAMA

McKEE and ASSOCIATES

ARCHITECTURE and INTERIORS

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 534-9933



SHEET TITLE : FIRE ALARM RISER, DETAILS & NOTES

McKEE JOB # : 20.119

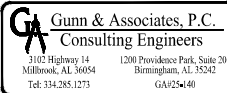
DRAWN BY : J. TILLERY

DATE: 10-10-2025

REVISED DATE:

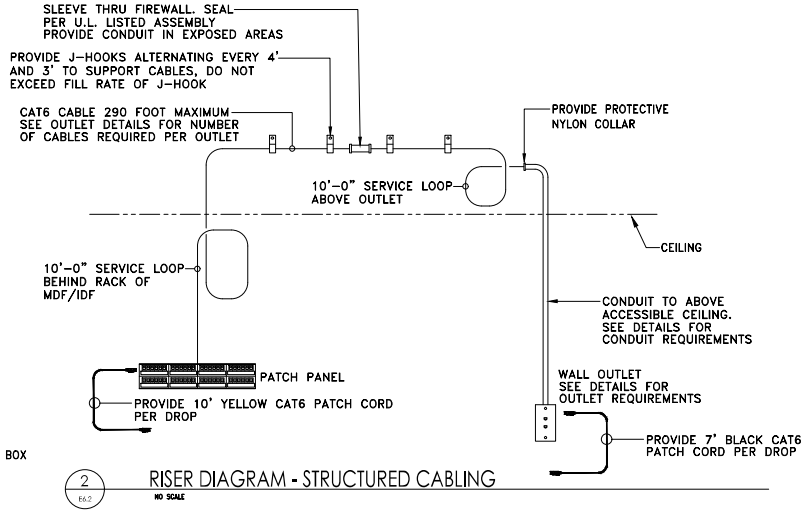
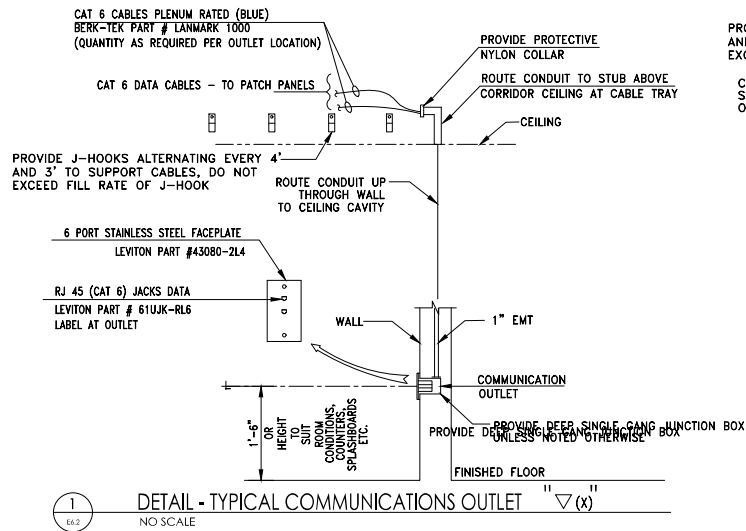
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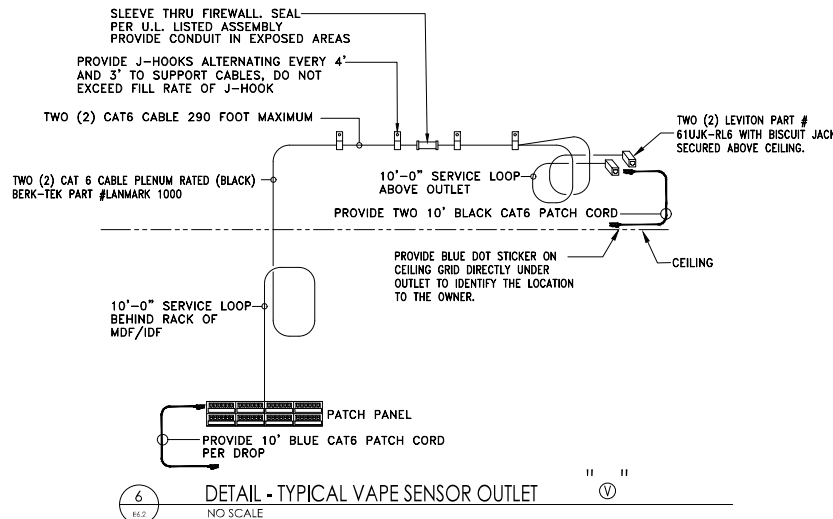
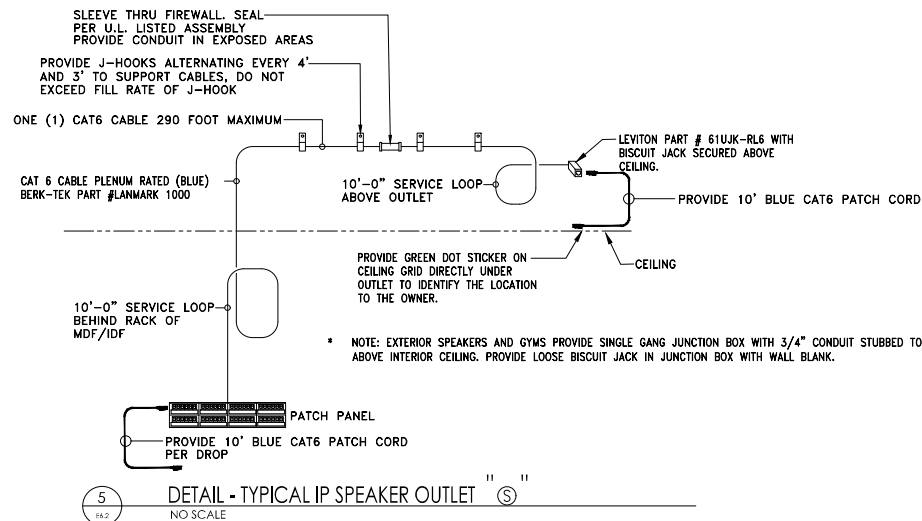
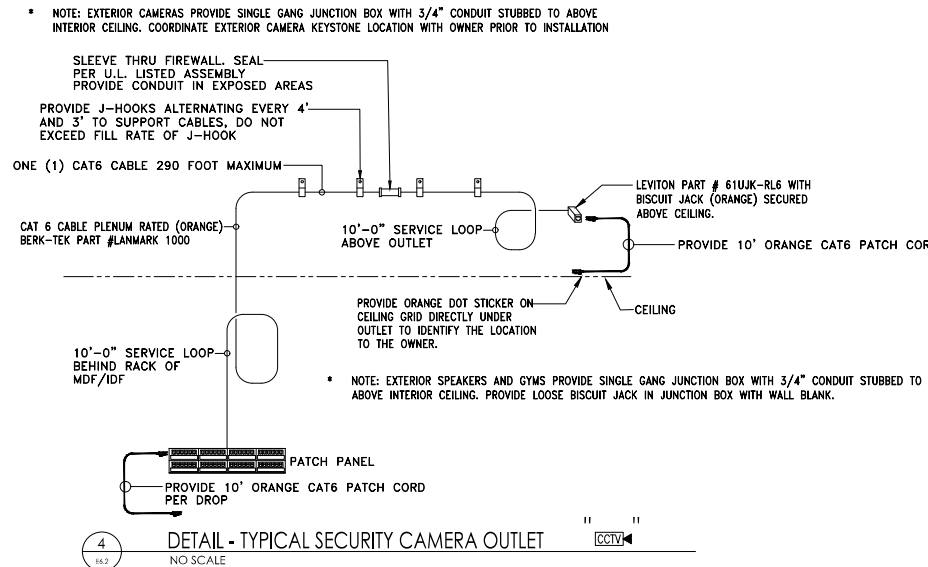
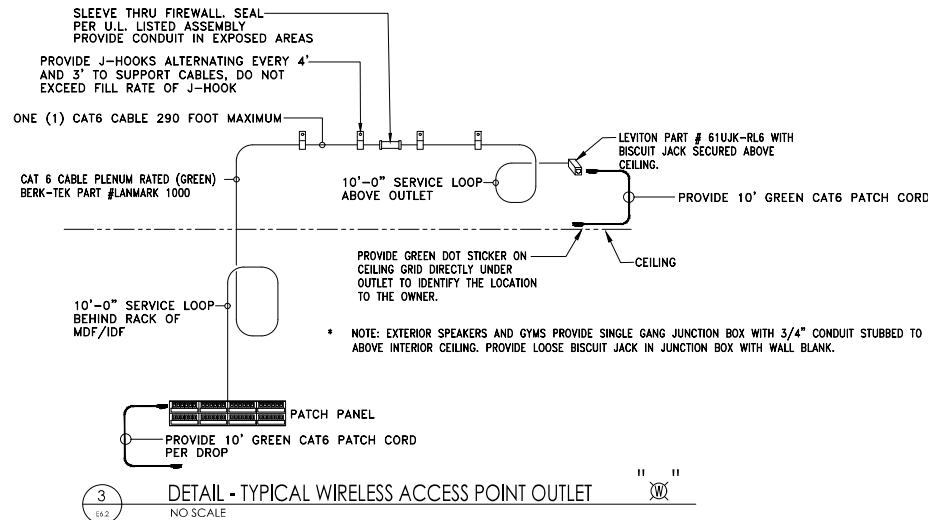


SHEET NO. : E6.1

- FLOOR BOX PROVIDE THE SAME NUMBER OF CABLES AND JACKS AS SHOWN ON THIS DETAIL.
- (X) • THE (X) NUMBER IN PARENTHESES INDICATES THE NUMBER OF DATA CAT 6 JACKS AND CABLES TO EACH COMMUNICATIONS OUTLET.
- AC • DESIGNATES TO INSTALL DEVICE ABOVE COUNTER



DATA CABLING & KEYSTONE COLOR CODE REQUIREMENT	
DATA CABLING	BLUE
WIRELESS ACCESS CABLING	GREEN
SECURITY CAMERA CABLING	ORANGE
VAPE CABLING	BLACK



Goshen High Shool Arts Center Renovation

TO
Goshen High School

FOR THE
Pike County Board of Education

Troy, ALABAMA

McKEE and ASSOCIATES

ARCHITECTURE and INTERIORS DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : COMMUNICATION RISER, DETAILS & NOTES

McKEE JOB # : 20.119

DRAWN BY : J. TILLERY

DATE : 10-10-2025

REVISED DATE :

REVISED DATE :

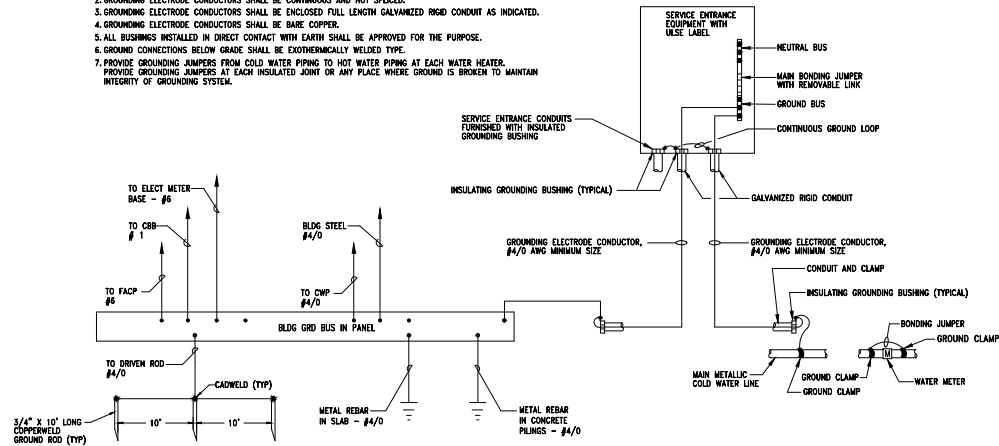
REVISED DATE :

SHEET NO. : E6.2

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Birmingham, AL 35242
G/A/25440

NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICE.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



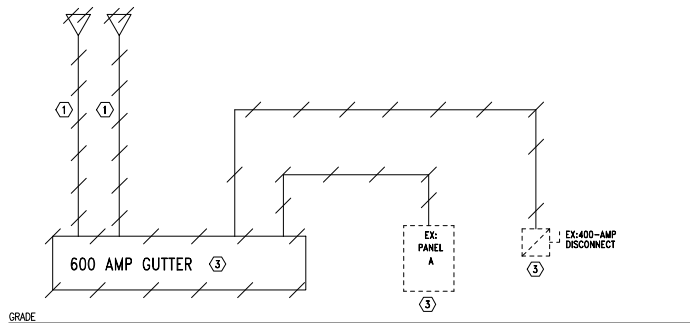
2 SERVICE ENTRANCE GROUNDING INSTALLATION

POWER RISER DIAGRAM NOTES:

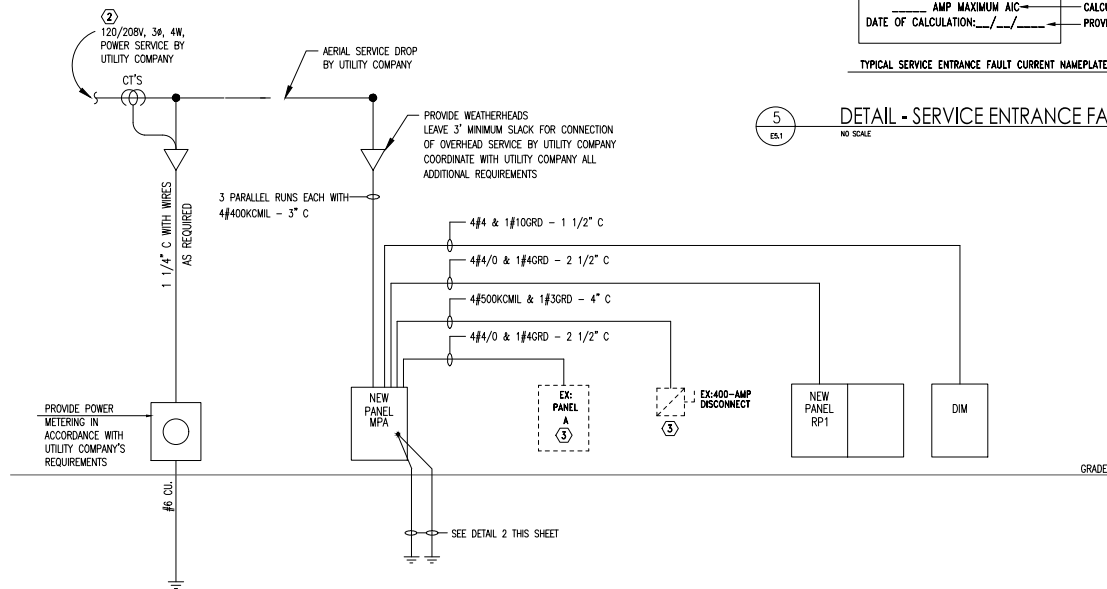
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. UTILITY COMPANY WILL BE FURNISHING THE OVERHEAD SECONDARY TO THE WEATHERHEADS. COORDINATE WITH UTILITY COMPANY ALL REQUIREMENTS SET FORTH BY THE UTILITY COMPANY AND PAY FOR ALL FEES TO GET POWER CONNECTED TO BUILDING. COORDINATE PRIOR TO BID AND BID ACCORDINGLY.
6. PROVIDE UNISTRUT SUPPORT ACROSS STRUCTURE WITH ANCHOR BOLT TO SUPPORT THE MOUNTING OF WEATHERHEADS TO THE SIDE OF THE BUILDING.

SHEET NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING OVERHEAD SERVICE TO EXISTING SERVICE ENTRANCE SERVICE GUTTER. DISCONNECT THE NEUTRAL AND GROUND BONDING JUMPER. REMOVE BACK TO THE POINT OF SERVICE. EXISTING SERVICE GUTTER IS TO REFEED..
2. COORDINATE WITH LOCAL UTILITY COMPANY FOR OVERHEAD SECONDARY TO BE BROUGHT TO BUILDING AND PAY ALL ASSOCIATED FEES. COORDINATE PRIOR TO BIDS AND PAY ALL ASSOCIATED FEES. COORDINATE PRIOR TO BIDS AND BID ACCORDINGLY.
3. COORDINATE OUTAGE WITH SCHOOL PRIOR TO WORK. OUTAGE SHALL BE ON WEEKENDS OR HOLIDAYS AS NEEDED TO NOT INTERRUPT SCHOOL ACTIVITIES.



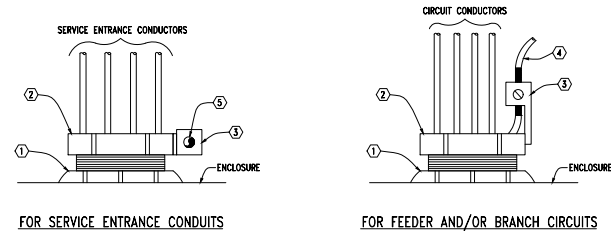
6 POWER RISER DIAGRAM - DEMOLITION



1 POWER RISER DIAGRAM - NEW WORK

DETAIL NOTES

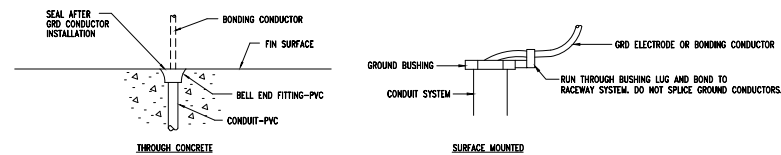
1. LOCK-NUT ASSEMBLIES
2. METAL GROUNDING BUSHING
3. COPPER GROUND LUG
4. COPPER GROUND CONDUCTOR. REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
5. CONTINUOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING. DO NOT SPLICE OR TAP.



3 TYPICAL GROUND BUSHING INSTALLATION

NOTES

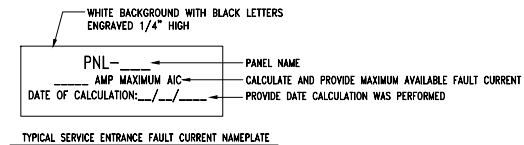
1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.



4 TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



5 SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

Goshen High Shoal Arts Center Renovation

Goshen High School

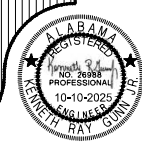
Pike County Board of Education

Troy, ALABAMA

McKEE and ASSOCIATES

ARCHITECTURE and INTERIORS DESIGN

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-0933



SHEET TITLE : POWER RISER, DETAILS, & NOTES

McKEE JOB # : 20.119

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DATE : 10-10-2025

REVISED DATE :

REVISED DATE :

REVISED DATE :

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