ELECTRICAL SYMBOLS LEGEND

LIGHTING

- RECTANGULAR FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)
- ROUND FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)
- TRACK LIGHTING (LENGTH AS SHOWN, HEADS NOT TO SCALE)
- POLE MOUNTED FIXTURE (HEADS NOT TO SCALE)
- ARM SYMBOL ADDITION INDICATES WALL MOUNTING
- DOT SYMBOL ADDITION INDICATES PENDANT MOUNTING
- BOX SYMBOL ADDITION INDICATES FLOOR OR IN-GROUND MOUNTING
- HALF FILLED SYMBOL INDICATES EMERGENCY VERSION
- EXIT SIGNS (FILL INDICATES NUMBER OF FACES) — WITH LIGHTS / WITH ARROW / DOUBLE FACE

NOTES:
1. Lower case letters after a comma in the fixture designation indicate switching. For example, "A3, b" indicates a type A3 fixture controlled by switch b.
2. A fixture designation ending in "-E" indicates an emergency fixture, even where the fixture symbol may too small to show a half fill clearly.
3. Dimensions and mounting heights in the lighting fixture schedule supercede information implied by these symbols. Symbols are for general reference only.

COMMUNICATIONS

- DATA OUTLET
- DATA OUTLET, ABOVE COUNTER
- ANALOG PHONE OUTLET
- ANALOG PHONE OUTLET, ABOVE COUNTER
- COMBINATION DATA & ANALOG PHONE OUTLET
- COMBINATION DATA & ANALOG PHONE OUTLET, ABOVE COUNTER
- BOX INDICATES FLUSH MOUNTING IN FLOOR
- CIRCLE INDICATES FLUSH MOUNTING IN CEILING
- SUBSCRIPT INDICATES QUANTITY OF PORTS (IF MORE THAN 1)
- MICROPHONE: CEILING, WALL AND FLOOR MOUNTED RESPECTIVELY
- SPEAKER: CEILING, WALL AND FLOOR MOUNTED RESPECTIVELY
- WALL MOUNTED HORNSPEAKER
- WAP — WIRELESS ACCESS POINT
- IC — INTERCOM CONTROL SWITCH

LINETYPES

- SOLID BLACK INDICATES NEW DEVICE
- GRAY INDICATES EXISTING DEVICE TO REMAIN
- DASHED INDICATES EXISTING DEVICE TO BE DEMOLISHED
- DASHED WITH "R" INDICATES EXISTING DEVICE TO BE RELOCATED

FIRE ALARM

- FACP — FIRE ALARM (FA) CONTROL PANEL
- ANN — FA ANNUNCIATOR
- V — FA ADA HORNSTROBE. V=VOICE/STROBE
- FA CEILING MOUNTED FA HORNSTROBE
- FA ADA STROBE
- FA CEILING MOUNTED FA STROBE
- FA FIRE ALARM PULL STATION
- FIS — FA FIRE/SMOKE DAMPER
- RI — FA REMOTE INDICATOR
- FS — FA FLOW SWITCH
- TS — FA TAMPER SWITCH
- FA GAS DETECTOR
- FA SMOKE DETECTOR
- HD — FA HEAT DETECTOR
- DS — FA DUCT SMOKE DETECTOR

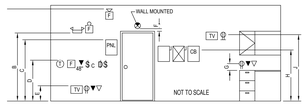
POWER DISTRIBUTION

- SURFACE MOUNTED ELECTRICAL PLUG-IN RACEWAY
- DISCONNECT SWITCH
- 2P — T — 20A FRACTIONAL HORSEPOWER DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION. 2P = 2-POLE
- CONTROL STATION
- M — METER
- R — RELAY
- T — THERMOSTAT OUTLET BOX: SINGLE GANG BACK BOX, PLASTER RING (UNLESS OTHERWISE NOTED) 1/2"CONDUIT AND PULL CORD TO MECH UNIT
- J — JUNCTION BOX, CEILING, WALL AND FLOOR MOUNTED RESPECTIVELY
- BRANCH CIRCUIT PANEL BOARD, SEE SCHEDULE FOR MOUNTING
- T — PAD MOUNT TRANSFORMER
- T — WALL MOUNT TRANSFORMER
- TVSS — SURGE PROTECTION DEVICE
- GROUND
- CONDUIT STUB-OUT
- LA — LIGHTNING/SURGE ARRESTOR

SITE PLAN

- UGP — UNDERGROUND ELECTRICAL PRIMARY FEEDER
- UGE — UNDERGROUND ELECTRICAL FEEDER
- UGC — UNDERGROUND COMMUNICATIONS
- OHE — OVERHEAD ELECTRICAL FEEDER
- OHP — OVERHEAD ELECTRICAL PRIMARY FEEDER
- TV — UNDERGROUND TELEVISION CABLE
- T — UNDERGROUND TELEPHONE CABLE

MOUNTING



KEY	MOUNTING HEIGHTS
A	90" TO TOP AND NOT LESS THAN 6" BELOW FINISHED CEILING WHERE REQUIRED
B	90" TO BOTTOM AND NOT GREATER THAN 96" FROM FLOOR
C	6'-0"
D	48" TO TOP AFF
E	20" TO TOP AFF
F	3"
G	6"AC
H	5'-0" TO HANDLE
J	6'-6"MAX

NOTES:
1. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
2. DIMENSIONS ARE TO TOP OF DEVICE WITH TRIM. ADJUST BACK BOX LOCATION AS REQUIRED.
3. ALL MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT. (ADA)

SWITCHING

- 20A, 1 POLE TOGGLE SWITCH
- 3 — 20A, 3-WAY TOGGLE SWITCH
- 4 — 20A, 4-WAY TOGGLE SWITCH
- K — 20A, 1 POLE KEY OPERATED SWITCH
- N — 20A, NETWORKED SWITCH
- D — DIMMER SWITCH
- PUSHBUTTON SWITCH
- TC — TIME CLOCK SWITCH
- PC — PHOTOSENSOR
- RC — ROOM CONTROLLER (ABOVE CEILING)
- CEILING OCCUPANCY SENSOR (ARROWS INDICATE VIEW)
- WALL OCCUPANCY SENSOR (ARROWS INDICATE VIEW)

POWER OUTLETS

- 20A, 120V., DUPLEX RECEPTACLE
- 20A, 120V., FOURPLEX RECEPTACLE
- 2P-4W RECEPTACLE (SEE PANEL SCHEDULE FOR DETAILS)
- G — 20A, 120V - GROUND FAULT PROTECTED (AT RECEPT. OR BREAKER, AS REQUIRED FOR ACCESSIBILITY)
- WP — 20A, 120V - WEATHERPROOF IN USE COVER GROUND FAULT PROTECTED (AT RECEPT. OR BREAKER, AS REQUIRED FOR ACCESSIBILITY)
- 20A, 120V., DUPLEX RECEPTACLE, HALF SWITCHED
- SP — SPECIAL RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 120V
- FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 120V
- FLOOR MOUNTED FOURPLEX RECEPTACLE, 20A, 120V
- SIMPLEX TYPE RECEPTACLE
- 20A, 120V., DUPLEX RECEPTACLE, ABOVE COUNTER

ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECTURAL
BC	BELOW COUNTER
C	CONDUIT
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
GC	GENERAL CONTRACTOR
GEC	GROUND ELECTRODE CONDUCTOR
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
LA	LIGHTNING ARRESTOR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRICAL FEEDER
OHP	OVERHEAD PRIMARY FEEDER
OHS	OVERHEAD SECONDARY FEEDER
PVC	POLYVINYL CHLORIDE
PLMBG	PLUMBING
PNL	PANEL
RTU	ROOFTOP UNIT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRICAL FEEDER
UGP	UNDERGROUND PRIMARY FEEDER
UPS	UN INTERRUPT ABLE POWER SUPPLY
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

- 26.## — KEYED NOTE
- M ## — MECHANICAL EQUIPMENT IDENTIFICATION
- K # — KITCHEN EQUIPMENT IDENTIFICATION

GENERAL DEMOLITION NOTES

1. IF CONCEALED OR UNKNOWN CONDITIONS ARE UNCOVERED AND ARE AT A VARIANCE WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS OR OF AN UNUSUAL NATURE NOT ORDINARILY ENCOUNTERED IN WORK OF THIS KIND, NOTICE MUST BE GIVEN TO THE ENGINEER BEFORE PROCEEDING WITH ANY ADDITIONAL WORK. NO CLAIM FOR ADDITIONAL COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE, PRIOR DETERMINATION OF COST OR TIME, AND EXPENSE TO THE OWNER.

2. THE DEMOLITION PLAN SHALL BE USED AS A SCHEMATIC GUIDE TO DEMOLITION ONLY. ADDITIONAL DEMOLITION MAY BE REQUIRED TO COMPLETE THE NEW CONSTRUCTION/ REMODELING AS INDICATED ON THE DRAWINGS. CONTRACTOR TO REPORT DEFICIENCIES RELATED TO DEMOLITION WORK THAT WILL AFFECT NEW CONSTRUCITON TO THE OWNER/ENGINEER FOR DETERMINATION OF REQUIRED ACTION.

3. DAMAGE ON THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR OR A PARTY TO THE CONTRACTOR DURING THE DEMOLITION OF CONSTRUCTION PHASE SHALL BE REPAIRED PRIOR TO CONTRACT DATE OF SUBSTANTIAL COMPLETION AT NO ADDITIONAL EXPENSE TO THE OWNER.

4. ALL EXISTING REMOVED EQUIPMENT WILL BE STOCKPILED AT THE SITE UNTIL AN INSPECTION BY THE OWNER'S REPRESENTATIVE WILL DETERMINE WHAT WILL BE SALVAGED, ALL EQUIPMENT NOT SALVAGED OR RETAINED BY THE CONTRACTOR FOR REUSE WILL BE HAULED OFF THE SITE BY THIS CONTRACTOR. THE STOCKPILE AREA WILL BE - "ELECTRICAL DEMOLITION FOR REMODELING". DETERMINED BY THE ARCHITECT AND OWNER. REFER TO ELECTRICAL SPECIFICATIONS SECTION 16060

5. VERIFY THAT ALL ELECTRICAL EQUIPMENT TO REMAIN OR BE RELOCATED AND REUSED ARE IN WORKING ORDER PRIOR TO ANY DEMOLITION WORK. IF THE EXISTING MATERIAL IS FOUND TO BE INOPERABLE, CONTRACTOR SHALL INFORM THE OWNER ONCE ANY DEMOLITION WORK HAS BEGUN.

GENERAL ELECTRICAL NOTES

1. PROVIDE, INSTALL, AND COORDINATE ALL WORK INDICATED BY THESE DRAWINGS. THIS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS IN ADDITION TO PERFORMING ALL OPERATIONS INCLUDING CUTTING, CHANNELING & UNDERGROUND TRENCHING, BACK FILL & TAMPING NECESSARY FOR THE INSTALLATION OF COMPLETE POWER, LIGHTING, OR OTHER SYSTEMS AS SHOWN.

2. PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE, ADOPTED CODES; INCLUDING, BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE (NEC), UBC, IBC, NFPA, AND ADA. ALL LOCAL AND STATE REQUIREMENTS WILL BE OBSERVED DURING THE PERFORMANCE OF THIS WORK.

3. NOTIFY THE ENGINEER IN WRITING IF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS ARE DETECTED. THE ENGINEER WILL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS W/ ANY WORK WHICH IS IN VARIANCE OF KNOWN LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR THIS WORK AND WILL PROMPTLY CORRECT THE WORK, WHEN NOTIFIED WITHOUT ADDITIONAL COST TO THE OWNER.

4. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING. NO CLAIM FOR ADDITIONAL COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE PLUS PRIOR DETERMINATION OF TIME AND COST TO THE OWNER.

5. CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FOREIGN MATTER, PAINT, DIRT, GREASE, AND UNNEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.

6. COORDINATE ALL PHASES OF THE ELECTRICAL WORK WITH THE ARCHITECT AND GENERAL CONTRACTOR. PERFORM WORK TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO THE OWNER.

7. OBTAIN FROM SYSTEM SUPPLIERS ALL WIRING DIAGRAMS FOR ALL EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER ELECTRICAL CHARACTERISTICS ARE PROVIDED. ANY INCORRECT WIRING OR DEVICES INSTALLED BY ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT ELECTRICAL CONTRACTOR'S EXPENSE.

8. VERIFY ELECTRICAL DEVICE LOCATIONS WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ANY ROUGH-IN.

9. VERIFY FINAL LOCATIONS OF ALL SINKS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ANY ELECTRICAL DEVICES LOCATED ABOVE COUNTER AND BEHIND FINAL SINK LOCATIONS WILL BE SHIFTED A MINIMUM OF 8" TO EITHER SIDE OF SINK. ANY ELECTRICAL DEVICES LEFT BEHIND SINK AT TIME OF FINAL ELECTRICAL WALKTHROUGH WILL BE RELOCATED AT ELECTRICAL CONTRACTOR'S EXPENSE.

10. PRIOR TO INSTALLATION, THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE, UP TO A DISTANCE OF 12", WITHOUT ADDITIONAL CHARGE.

11. FIELD VERIFY AND COORDINATE THE EXACT LOCATION OF ALL SYSTEMS AND EQUIPMENT WITH ALL TRADES PRIOR TO INSTALLATION. WHERE EXACT LOCATIONS ARE NECESSARY, THEY ARE DIMENSIONED ON THESE DRAWINGS. WHERE THERE IS A QUESTION OF ADEQUATE CLEARANCE OR COORDINATION BETWEEN TRADES, THIS CONTRACTOR WILL PREPARE AS-BUILT DRAWINGS FOR ENGINEER'S REVIEW.

12. CONTACT UTILITY COMPANIES (POWER, GAS, WATER, SEWER, TELEPHONE, CABLE TV, ETC.) PRIOR TO TRENCHING IN ORDER TO IDENTIFY UNDERGROUND UTILITIES. CONTRACTOR SHALL LOCATE SECONDARY SERVICE FEEDERS, UNDERGROUND ELECTRICAL BRANCH CIRCUITS, SPRINKLER LINES, ETC., PRIOR TO TRENCHING. ANY CUT OR DAMAGED UNDERGROUND UTILITIES SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.

13. UNLESS OTHERWISE NOTED, USE COPPER CONDUCTORS RATED FOR 600 VOLTS, TYPE THWN/THWN INSULATION. MINIMUM WIRE SIZE #12 AWG (STRANDED FOR #8 AWG OR LARGER). WITH WIRE-TYPE EQUIPMENT CONDUCTOR. RUN ALL WIRING IN CONDUIT, INCLUDING LOW VOLTAGE AND CONTROLS.

14. UTILIZE 1/2 INCH E.M.T. CONDUIT MINIMUM. WHERE REQUIRED TO PROTECT FROM PHYSICAL DAMAGE, USE RIGID OR IMC TYPE CONDUIT. RUN CONDUIT CONCEALED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. USE FLEXIBLE METALLIC CONDUIT WHERE NEEDED. PROVIDE EXPANSION FITTINGS FOR CONDUIT CROSSING EXPANSION JOINTS.

15. SUPPORT ALL CONDUIT INDEPENDENTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM VENTILATION DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS. USE ONLY ACCEPTABLE METHODS OF SUPPORT.

16. TERMINATING & SPLICING: MAKE ALL JOINTS & SPLICES IN BRANCH CIRCUIT WIRING #10 AWG & SMALLER WITH AN APPROVED SOLDERLESS TOOL OR TWIST-ON CONNECTORS. FOR #8 AWG AND LARGER USE HIGH COMPRESSION BARREL SPLICES WITH SHRINK WRAP AND MANUFACTURER'S COMPATIBLE CONNECTORS IN GUTTERS AND SIMILAR LOCATIONS. BUT NOT ALLOWED IN RACEWAYS. LEAVE SUFFICIENT SLACK TO PERMIT 2 OR MORE SPLICES OR JOINTS TO BE REMADE IN CASE OF FAULT.

17. EMT CONDUIT FITTINGS: IN DRY LOCATIONS USE STEEL SET SCREW TYPE OR "REGAL" DIE CAST SET SCREW COUPLINGS AND CONNECTORS. DIE CAST FITTINGS WILL NOT BE USED ON THIS PROJECT. DAMP/WET LOCATIONS: USE STEEL COMPRESSION GLAND TYPE COUPLER AND CONNECTIONS.

18. SURFACE RACEWAY: WHEREVER CONCEALED CONDUIT IN FINISHED AREAS IS NOT POSSIBLE, INSTALL SURFACE MOUNTED RACEWAYS EQUAL TO WIREMOLD. RUN SURFACE RACEWAYS IN CORNER OF WALL AND CEILING. ALL RACEWAYS THAT ARE EXPOSED WILL REQUIRE ARCHITECT'S/ENGINEER'S APPROVAL PRIOR TO ROUGH-IN. COLOR BY ARCHITECT.

19. TYPE NM (ROMEX CABLE) AND NMC CABLE WILL NOT BE ALLOWED ON THIS PROJECT.

20. FEEDER RACEWAY: IN ADDITION TO RACEWAY BONDING REQUIRED BY CODE & OUTLET BOX BONDING JUMPERS, INSTALL A SEPARATE, INSULATED, GREEN EQUIPMENT GROUND CONDUCTOR. TERMINATE EACH END ON SUITABLE LUG, BUS, OR BUSHING.

21. ELECTRONIC COMPUTER EQUIPMENT AND SPECIAL EQUIPMENT BRANCH CIRCUITS: IN ADDITION TO RACEWAY BONDING REQUIRED BY CODE AND OUTLET BOX BONDING JUMPERS, INSTALL A SEPARATE, INSULATED GREEN EQUIPMENT GROUND CONDUCTOR WITH BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE LUG, BUS, OR BUSHING.

22. MAINTAIN A MIN. OF 24 INCHES SEPARATION BETWEEN POWER CONDUITS AND SIGNAL CONDUITS. ROUTE CONDUITS SO AS NOT TO CROSS EACH OTHER.

23. PROVIDE WIRING DEVICES RATED FOR THE GIVEN APPLICATIONS AS REQUIRED BY CODE.

24. INSTALL EXTERIOR WIRING IN CONDUIT. UTILIZE WEATHERPROOF FITTINGS AND WEATHERPROOF BOXES/COVERS.

25. SIZE ALL BOXES AND ENCLOSURES PER THE NATIONAL ELECTRICAL CODE. WORKING SPACE FOR ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.

26. PROVIDE A 20 AMP, 120 VOLT RECEPTACLE OUTLET INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT ON/IN ROOF TOPS, ATTICS, AND CRAWL SPACES PER NEC 210-63. LOCATE THE RECEPTACLE ON THE SAME LEVEL AND WITHIN 25' OF THE EQUIPMENT. INSTALL A GFCI RECEPTACLE AT ROOF TOP LOCATIONS WITH CAST BOX, WEATHERPROOF COVER PLATE, AND MOUNT ON/TO A THREADED IMC CONDUIT SECURELY FASTENED IN PLACE IN ACCORDANCE WITH NEC 314-23.

27. INSTALL AT LEAST ONE WALL-SWITCH CONTROLLED LIGHTING OUTLET AT OR NEAR EQUIPMENT REQUIRING SERVICING SUCH AS HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT IN ATTIC OR UNDERFLOOR SPACES PER NEC 210-70. LOCATE SWITCH AT POINT OF ENTRY TO THE ATTIC OR UNDERFLOOR SPACE.

28. BRANCH CIRCUITS: UTILIZE #10 AWG CONDUCTORS ON ALL RUNS OVER 100'-0".

29. PHASE PROTECTION: INSTALL PHASE PROTECTION ON ALL NEW 3 PHASE MOTORS 1 HP AND ABOVE AND ALL 3PH AIR HANDLING UNITS. MANUFACTURED BY CUTLER HAMMER D65 OR SQUARE D MPS.

30. MULTIPLE PHASE HOME RUNS MAY SHARE A COMMON NEUTRAL EXCEPT WHEN A DIMMER/DIMMING SYSTEM IS USED & WHEN ELECTRONIC/ COMPUTER EQUIPMENT CONNECTIONS ARE REQUIRED. VERIFY WITH ENGINEER PRIOR TO ROUGH-IN.

31. PROVIDE ACCESS PANELS WITHIN THE ELECTRICAL BID. TURN OVER TO THE APPROPRIATE TRADE FOR INSTALLATION. REFER TO ARCHITECTURAL SPECIFICATION SECTIONS.

32. COORDINATE SHORT CIRCUIT RATING OF PANELBOARDS AND OVER-CURRENT PROTECTION WITH UPSTREAM OVER-CURRENT PROTECTION AND AVAILABLE SCA. PROPERLY IDENTIFY ALL PANELBOARDS W/ LAMINATE LABEL & TYPE ALL PANEL SCHEDULES. INSTALL PANELBOARDS AS INDICATED ON DRAWINGS AND SCHEDULES. PROVIDE CIRCUIT BREAKERS AS REQUIRED. USE "HACR" BREAKERS FOR HEATING/AIR CONDITIONING LOADS. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER BREAKERS AS REQUIRED. PROVIDE A GROUND BAR KIT WITHIN EACH DISTRIBUTION PANEL, BRANCH CIRCUIT PANEL, AND LOAD CENTER.

33. INSTALL METERING AND ELECTRICAL SERVICE ENTRANCE EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRIC UTILITY SYSTEM STANDARDS.

34. EXTEND ALL CONDUIT AND CONDUCTORS, INSTALL ELECTRICAL EQUIPMENT AS NECESSARY, AND MAKE ALL FINAL CONNECTIONS TO MECHANICAL AND OWNER-FURNISHED EQUIPMENT. LEAVE ALL EQUIPMENT IN OPERABLE CONDITION WITH APPROPRIATE OVERLOAD AND SERVICE DISCONNECT PROTECTION AS REQUIRED BY THE APPLICABLE CODES. FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES WHERE APPLICABLE.

35. COORDINATE WITH THE MECHANICAL/ PLUMBING/ CONTROLS CONTRACTOR TO INSURE THAT ALL REQUIRED COMPONENTS OF CONTROL WORK ARE INCLUDED AND FULLY UNDERSTOOD. NO ADDITIONAL COST SHALL ACCRUE TO THE OWNER AS A RESULT OF LACK OF SUCH COORDINATION. REFER TO THE ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT AND THE MECHANICAL /ELECTRICAL RESPONSIBILITY TABLE.

36. CEILING PENETRATIONS IN FIRE-RATED CEILINGS SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 713. IF AGGREGATE PENETRATION AREA (DETERMINE AGGREGATE AREA FOR ALL DISCIPLINES PENETRATING CEILING AREA) EXCEEDS AREA ALLOWED, THE ELECTRICAL CONTRACTOR SHALL INCLUDES, AS REQUIRED, A FIRE-RATED ENCLOSURE FOR EACH FIXTURE IN THAT AREA. LIGHTING FIXTURE TYPE MAY REQUIRE "IC" RATING. CONSULT ARCHITECT FOR DETAILS.

NOTE: SOME OF THE SYMBOLS SHOWN MAY NOT APPEAR ON ALL DOCUMENTS OR PLANS.

SAN JUAN COUNTY MULTI-USE BUILDING 2022 LIGHTING REPLACEMENT PROJECT

41 Rd 5568, Farmington, NM 87401

Owner

San Juan County Parks & Facilities Department

100 South Oliver Drive
Aztec, NM 87401

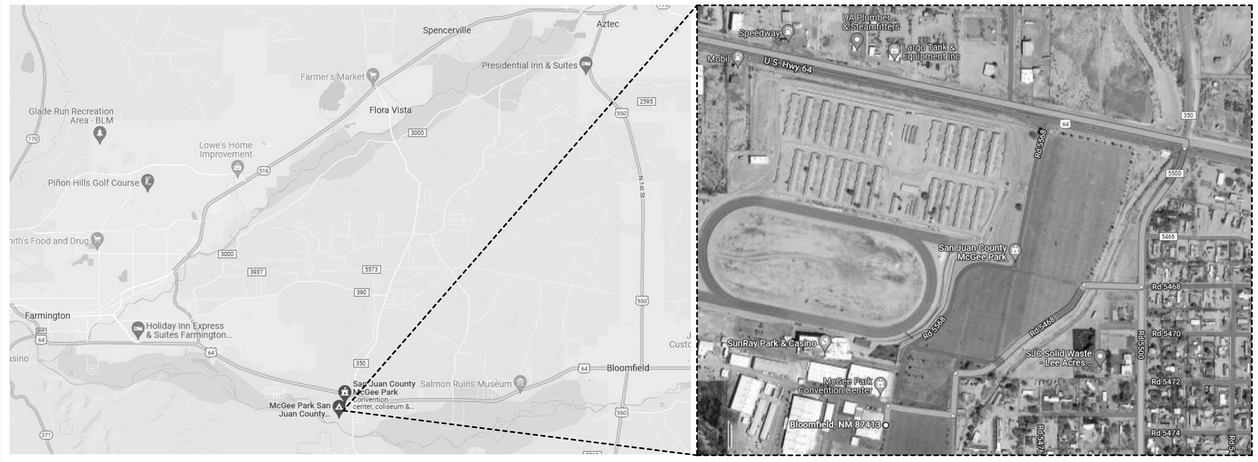
Contact:
Steve Dansie
Deputy Director, Parks & Facilities
steven.dansie@sjcounty.net
(505) 324-5569

MEP Engineer

Mechanical, Electrical & Environmental Engineering

572 East 3rd Avenue
Durango, CO 81301

Contact:
Dustin Sullivan, Project Manager
Sean Brophy, Electrical Engineer
Dustin Sullivan, Mechanical Engineer
dustin@meeengineering.com
(970) 385-1570



CODE ANALYSIS

CODE	
NMMC- 2021	NEW MEXICO MECHANICAL CODE (UMC)
NMPC-2021	NEW MEXICO PLUMBING CODE (UPC)
NEC-2017	NATIONAL ELECTRICAL CODE (NEC)
NMCECC-2018	NEW MEXICO ENERGY CONSERVATION CODE (IECC)
NMEBC-2015	NEW MEXICO EXISTING BUILDING CODE (IEBC) ALTERATION LEVEL 1-SECTION 503
AREA AND OCCUPANCY CLASSIFICATION	
MULTI USE BLDG	28,852 SQFT. ASSEMBLY GROUP A-3. COMMUNITY HALL. NO FIXED SEATING. FULLY SPRINKLED
PROJECT SCOPE	
	ELECTRICAL: REPLACE FLUORESCENT LIGHTING WITH NEW LED LIGHTING AND CONTROLS.
	LEVEL 3 - ALTERATION (IEBC 503)
	-503.1- THE ... REPLACEMENT ... OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES THAT SERVE THE SAME PURPOSE
	-703.1 FIRE PROTECTION- ALTERATION SHALL BE DONE IN A MANNER THAT MAINTAINS EXISTING LEVEL OF PROTECTION.
	-705.1 ACCESSIBILITY- EXISTING ACCESSIBILE ELEMENTS TO REMAIN.
	-708.1 ENERGY CONSERVATION- NEW EQUIPMENT AND FIXTURES BEING INSTALLED MEETS OR EXCEEDS NM ENERGY CONSERVATION CODE.

SHEET LIST- LTG PROJECT

NUMBER	NAME
G001	PROJECT INFORMATION
ED101	LIGHTING DEMOLITION PLAN
EL101	ELECTRICAL LIGHTING PLAN

MEE ENGINEERING
572 E 3rd Ave, Suite A
Durango CO 81301
970-385-1570

SEAN BROPHY
NEW MEXICO
26141
PROFESSIONAL ENGINEER
2022-06-29

SAN JUAN COUNTY MULTI-USE BUILDING
2022 LIGHTING REPLACEMENT PROJECT
41 RD 5568, FARMINGTON, NM 87401

REVISIONS	DATE	NAME

PROJECT NO: 2204
DATE: 2022-06-28

DRAWN BY: NB
CHECKED BY: DS

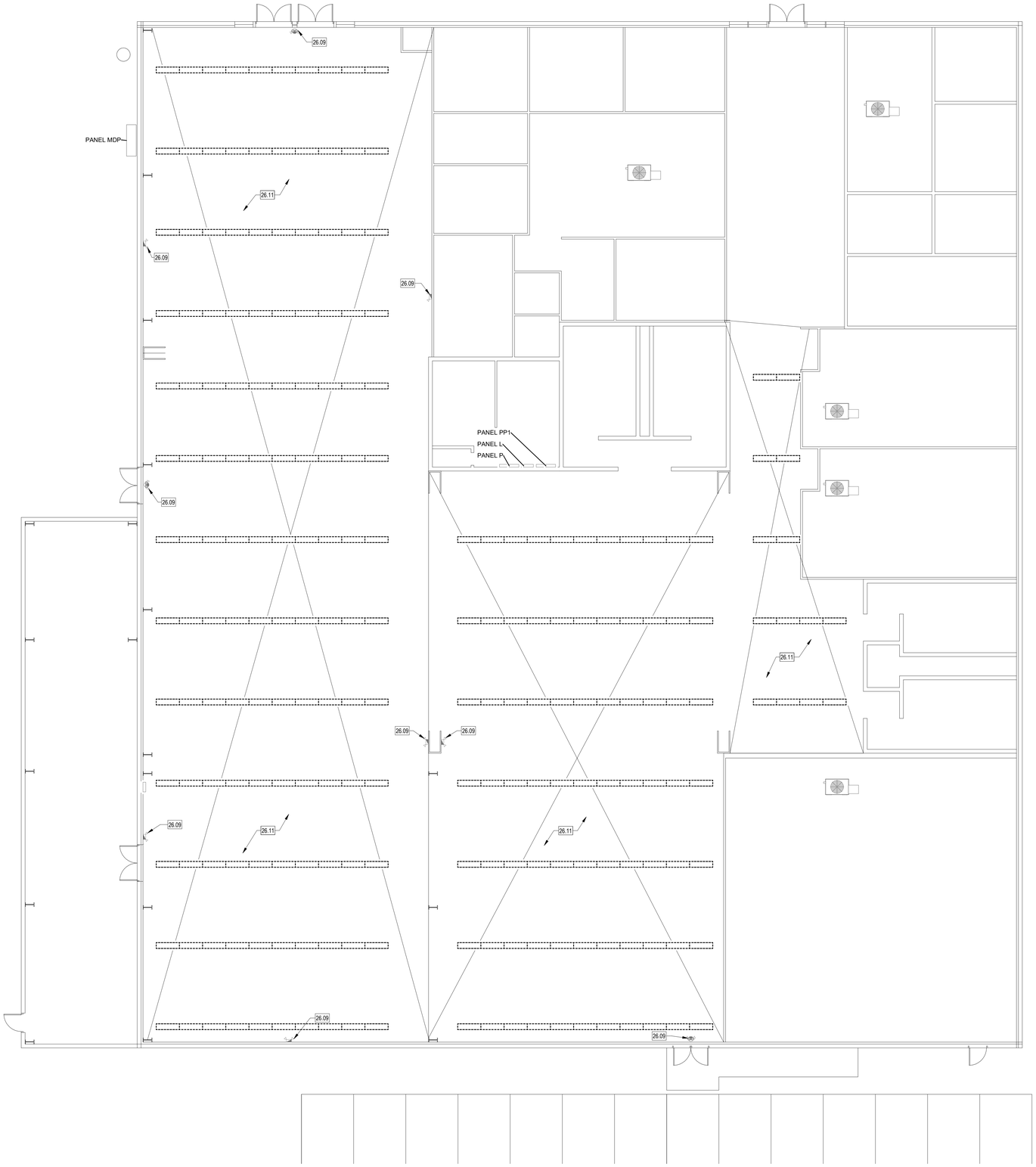
COPYRIGHT MECHANICAL ELECTRICAL & ENVIRONMENTAL ENGINEERING, INC. 2007

SHEET TITLE:

G001

PROJECT INFORMATION

KEYED NOTES	
26.09	EXISTING EMERGENCY BATTERY LIGHT FIXTURES TO REMAIN.
26.11	REMOVE ALL EXISTING LINEAR LIGHT FIXTURES AND ASSOCIATED CONTROLS. MAINTAIN CIRCUITS FOR RE-USE IN NEW SCOPE.



ELECTRICAL LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

ME&E ENGINEERING
5721 E Sn Ave, Suite A
Durango,CO 81301
970-385-1570

SEAN BROPHY
NEW MEXICO
26141
PROFESSIONAL ENGINEER
2022-06-29

SAN JUAN COUNTY MULTI-USE BUILDING
2022 LIGHTING REPLACEMENT PROJECT
41 RD 5568, FARMINGTON, NM 87401

REVISIONS	DATE	NAME

PROJECT NO: 2204
DATE: 2022-06-028

DRAWN BY: NB
CHECKED BY: SB

COPYRIGHT MECHANICAL ELECTRICAL & ENVIRONMENTAL ENGINEERING, INC. 2007

SHEET TITLE:

ED101

LIGHTING DEMOLITION PLAN

LIGHTING FIXTURE SCHEDULE

NOTES: 1. Unless otherwise noted, all interior fixtures shall be 35K CCT, all exterior 30K. Interior fixtures shall have minimum 80 CRI, unless higher CRI noted below. 2. All heights shown are to bottom of fixture.

TYPE	DESCRIPTION	MOUNTING	HEIGHT	MAKE	MODEL	LAMP	WATTS	BATTERY	LUMENS	OPTIC	CRI	NOTES
A	4' LINEAR CURVE FROSTED LENS	SURFACE	CEILING	COLUMBIA	MPS	LED	28	NONE	3300	CURVE LENS	90	
AE	4' LINEAR CURVE FROSTED LENS	SURFACE	CEILING	COLUMBIA	MPS	LED	28	NONE	3300	CURVE LENS	90	CIRCUIT LIGHTS THRU INVERTER

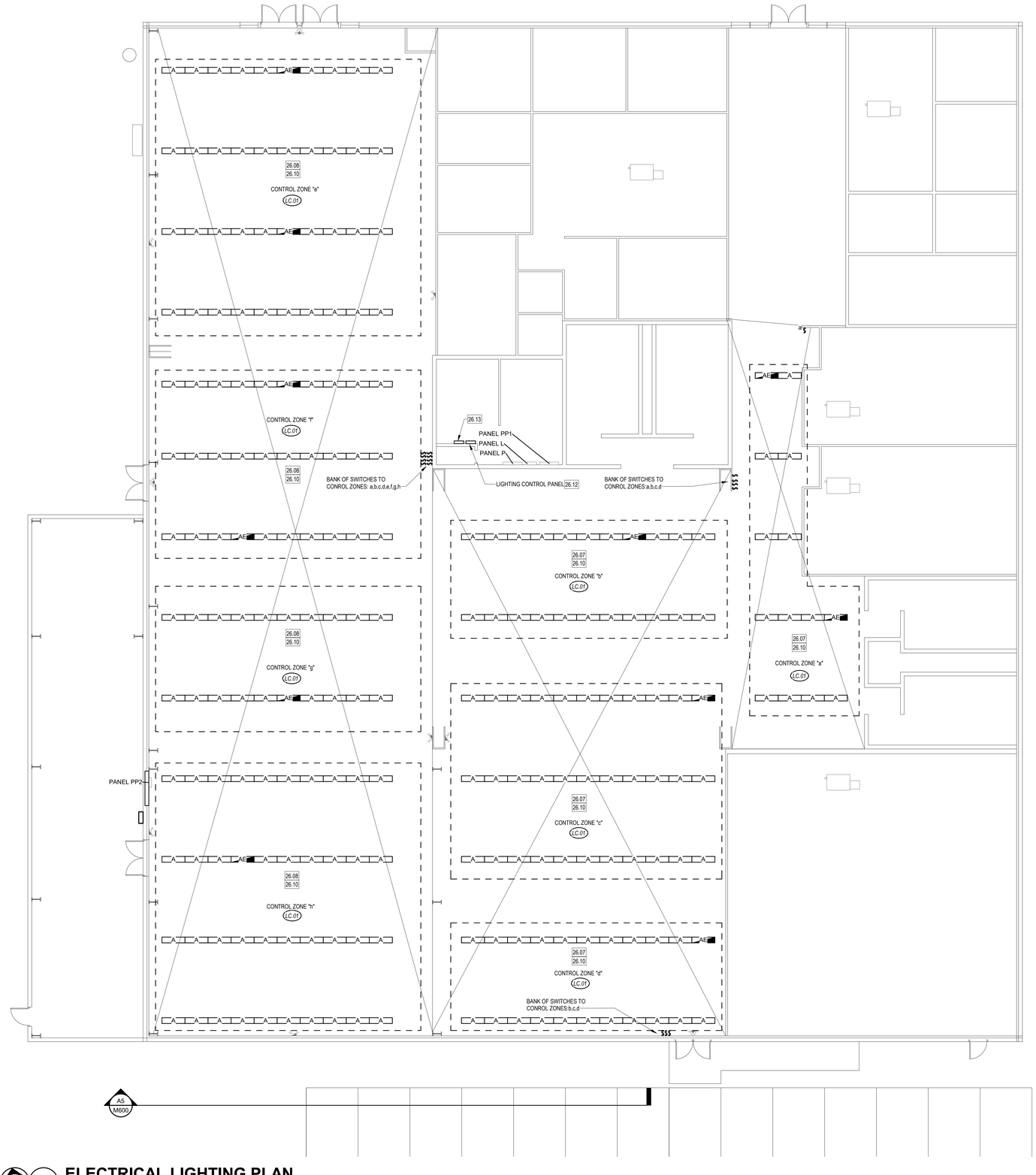
LIGHTING CONTROL SCENARIO SCHEDULE

NOTES: 1. Shop drawings showing all device locations and types to be submitted with lighting submittal. 2. All lighting control devices shall be sourced from same manufacturer. See specifications for approved manufacturers. 3. For rooms with occupancy or daylight sensing, sensor locations and quantities shown should be considered approximate. Contractor is responsible for adjusting quantity and locations according to the selected manufacturer's recommendations for complete coverage of room.

LC	DESCRIPTION	OCCUPANCY SENSING	SENSOR COVERAGE	CONTROL ZONES	MANUAL DIMMING	MANUAL SWITCHING	SCENE SELECTOR	SCHEDULED ON/OFF	DAYLIGHT SENSING
LC.01	CONTROLLED BY CENTRAL 7-DAY ASTRONOMICAL CONTROL PANEL. PROVIDE DIMMING SWITCHES AT THE INDICATED LOCATIONS. COORDINATE WITH OWNER LIGHTING CONTROL SCHEDULE, AND TRAIN OWNER ON HOW TO REPROGRAM CONTROL PANEL.	No	N/A	8	Yes	Yes	No	No	No

KEYED NOTES

26.07	LIGHT FIXTURES IN CONTROL ZONES a, b, c, d SHALL BE MOUNTED AT 12' AFF.
26.08	LIGHT FIXTURES IN CONTROL ZONES e, f, g, h SHALL BE MOUNTED AT 10' AFF.
26.10	REUSE EXISTING LIGHTING CIRCUIT TO POWER NEW LIGHT FIXTURES. MODIFY SWITCH LEGS TO MATCH CONTROL ZONES SHOWN ON THE DRAWINGS. TOTAL LOAD REDUCED.
26.12	CONNECT LIGHTING CONTROL PANEL TO EXISTING LIGHTING CIRCUIT.
26.13	PROVIDE NEW 375KVA INVERTER. DUAL LITE LG375



1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

ME&E ENGINEERING
5721 E. 5th Ave. Suite A
Durango CO 81301
970-385-1570

SEAN BROPHY
NEW MEXICO
26141
PROFESSIONAL ENGINEER
2022-06-29

SAN JUAN COUNTY MULTI-USE BUILDING
2022 LIGHTING REPLACEMENT PROJECT
41 RD 5568, FARMINGTON, NM 87401

REVISIONS	DATE	NAME

PROJECT NO: 2204
DATE: 2022-06-28

DRAWN BY: NB
CHECKED BY: SB

COPYRIGHT MECHANICAL ELECTRICAL & ENVIRONMENTAL ENGINEERING, INC. 2007

SHEET TITLE:

EL101

ELECTRICAL LIGHTING PLAN