ADDENDUM #2 – This addendum forms part of the Contract Documents and modifies the original Contract Documents. All other parts of the Contract Documents remain unchanged. Offerors **must** acknowledge receipt of this addendum in the Proposal.

DOCUMENT 00 9113 – ADDENDUM #2

1.3 PROJECT INFORMATION

A. Project Name: **Sandoval County Sheriff & Emergency Operation Center**
B. Owner Project Number: **FY22-SCPW-05**
C. Owner: **Sandoval County**
D. Architect: **RMKM Architecture, P.C.**
E. RMKM Architect Project Number: **1904**
F. Date of Addendum: **11 February 2022**

1.4 NOTICE TO BIDDERS

A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Contractor shall acknowledge receipt of this **Addendum 02**. Please email Leslie Olivas at ldolivas@sandovalcountynm.gov and Mark Hatzenbuhler at mhatzenbuhler@sandovalcountynm.gov for acknowledgement and any additional questions.

1.5 SHEETS (Please reference attached sheets):

A. ES101
   1. Clarification for utility yard equipment
   2. Clarification for entry gates.
   3. Clarification and added notes for camera on poles in the parking area.
B. EL101
   1. Changed all “EMC” to “EM” types.
   2. Added D1 type luminaires to stair wells.
   3. Added E1 type lumianre at lobby.
   4. Updated General Notes.
   5. Add note 9.
   6. Add note 5 to room 129 devices.
C. EL102
   1. Changed all “EMC” to “EM” types.
   2. Added D1 type luminaires to stair wells.
   3. Added EM type luminaires.
   4. Updated General Notes.
   5. Add plan for Penthouse lighting.
D. EP101
   1. Adjusted notes for FC1 and FC2.
   2. Added power to IT rack in room 104.
   3. Added circuit information for electronic bell.

4. Added note 25 through 27.
5. Added power notes to exterior door at 1/g.7
6. Adjusted floor boxes to match "T" sheets.

E. EP102?
1. Adjusted notes for FC3 and FC4.
2. Added power to IT rack in room 210.
3. Add note 25.
4. Change note 20.
5. Added note 18 and 19.
6. Adjusted not 18 to 19 in room 213
7. Adjusted enlarged plan A1.
8. Adjusted floor boxes to match "T" sheets.

F. EP103
1. Adjusted note 2 and 7.
2. Added note 8.
3. Adjusted location of equipment on RTU-1

G. LP131
1. Adjusted keyed notes 3 to 8.

H. FA101
1. Adjusted notes on this sheet.

I. FA102
1. Adjusted notes on this sheet.

J. E-501
1. Adjusted notes to detail 2 and 6.

K. E-502
1. Adjusted note in box.
2. Adjusted note in detail1.

L. E-601
1. Adjusted notes on detail 3.
2. Added data to MSB and added note
3. Adjusted notes at ATS
4. Adjusted feeder tags for incoming secondary.

M. E-602
1. Adjusted noting and diagram information.

N. E-603
1. Adjusted diagram, notes and box note.

O. E-701
1. Adjusted and removed some lumianre types.

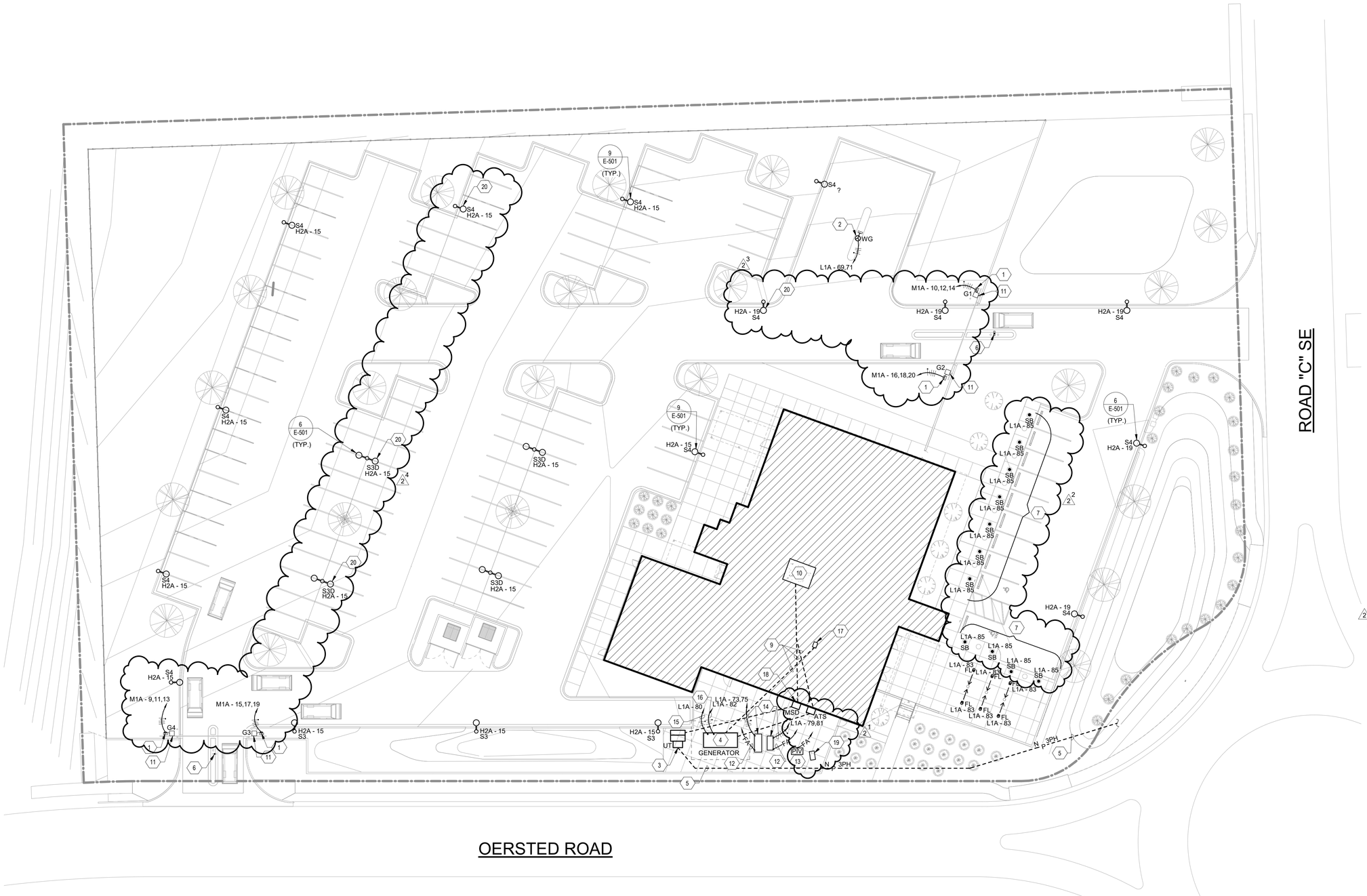
P. E-702
1. Adjusted lighting sequence of operation line item "I".
2. Added equipotent to Electrical connection schedule.

Q. E-703, E-704, and E-705
1. Updates to circuits to panel schedules on these sheets.

END OF ADDENDUM 2

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9



0' 20' 40' 80'

N

A1 ES101 ELECTRICAL SITE PLAN

1" = 20'-0"

RMKM ARCHITECTURE, PC

400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

A. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOM EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
B. REFER TO SHEET SERIES "C", "AS", "M", "T" AND "P" FOR OTHER UTILITIES WITHIN ROUTING PATH OF ELECTRICAL RACEWAYS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ANY UTILITIES SHOWN ON THIS SHEET PRIOR TO COMMENCEMENT OF ANY WORK FOR BEST LOCATION OF THESE UTILITIES.
C. REFER TO SHEET E-601 FOR ELECTRICAL EQUIPMENT, CONDUIT SIZE AND ADDITIONAL INFORMATION ON ELECTRICAL DISTRIBUTION SYSTEM.
D. REFER TO SHEET SERIES "T" FOR TELECOMMUNICATION ROOMS, EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
E. ALL EXTERIOR BUILDING LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK LOCATED IN THE ELECTRICAL ROOM WHERE PANEL CIRCUITING THOSE LUMINAIRES IS LOCATED. THE EXTERIOR BUILDING LUMINAIRES AND SITE LUMINAIRES MUST BE CONTROLLED SEPARATELY.
F. WHERE CONDUITS CROSS A DRIVEWAY, ROADWAY OR PARKING AREA, CONDUITS SHALL BE CONCRETE ENCASED.
G. REFER TO SHEET E-701 FOR LUMINAIRE SCHEDULE.
H. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ARCHITECT FOR CLARIFICATION, PRIOR TO COMMENCING ANY WORK.
I. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.

KEYNOTES

1. FOR EACH GATE UNIT REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND ADDITIONAL INFORMATION. COORDINATE WITH ARCHITECT AND GATE INSTALLER FOR ADDITIONAL COORDINATION AND DIRECTION PRIOR TO COMMENCEMENT OF ANY WORK.
2. PEDESTAL TYPE UTILITY ISLAND. PROVIDE A 50A TWIST LOCK RECEPTACLE, (2) #4'S AND (1) # 8 GROUND IN A 1-1/4" CONDUIT. REFER TO DETAIL A/B/C ON SHEET C-104 FOR ADDITIONAL INFORMATION. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO THE START OF ANY WORK.
3. PNM UTILITY TRANSFORMER. CONTACTOR WILL COORDINATE WITH PNM PRIOR TO COMMENCEMENT OF ANY WORK FOR INSTALLATION REQUIREMENTS.
4. NEW ENGINE GENERATOR. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. PRIMARY UNDERGROUND PNM UTILITY. REFER TO SHEET ES102 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL COORDINATE WITH PNM PRIOR TO COMMENCEMENT OF ANY WORK FOR INSTALLATION REQUIREMENTS.
6. ACCESS CONTROL FOR GATES. REFER TO T SHEET SERIES FOR ADDITIONAL INFORMATION
7. REFER TO ARCHITECTURAL DETAIL 1 ON SHEET AS-102 FOR ADDITIONAL INFORMATION.
8. REFER TO ARCHITECTURAL SHEET SERIES FOR ADDITIONAL INFORMATION.
9. FOR ALL CONDUITS ENTERING OR LEAVING BUILDING, SHOWN OR NOT. THAT MAY BE INSTALLED BELOW FOOTINGS. PROVIDE CONCRETE ENCASEMENT UNDER AND 2'-0" BEYOND EACH SIDE OF FOOTING.
10. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND EQUIPMENT LAYOUTS.
11. GATE CONTROLLER / MOTOR LOCATION. TERMINATE CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS.
12. HOT BOX FOR DOMESTIC, FIRE PROTECTION, AND LANDSCAPE BACKFLOW PREVENTERS. PROVIDE A 1" CONDUIT TO FACP. PROVIDE TWO DEDICATED CIRCUITS FOR HEATERS. PROVIDE 2#10 AND 1#10 GND FOR EACH CIRCUIT IN 1" CONDUIT. REFER TO SHEET SERIES "C" FOR ADDITIONAL INFORMATION.
13. PROVIDE A 1" CONDUIT TO "FACP" FOR PIV. REFER TO P, L AND C - SHEET SERIES FOR ADDITIONAL INFORMATION AND EXACT LOCATION ALSO TO SHEET E-603 FOR FIRE RISER INFORMATION.
14. APPROXIMATE LOCATION OF HOT BOX. PROVIDE TWO DEDICATED CIRCUITS TO HOT BOX HEATERS. PROVIDE 2#8 & 1#10 GROUND FOR EACH CIRCUIT IN 1" CONDUIT BETWEEN EQUIPMENT AND PANEL SOURCE. REFER TO SHEET SERIES "C" FOR MORE INFORMATION AND LOCATION.
15. BLOCK HEATER FOR GENERATOR PROVIDE DEDICATED 120V CIRCUIT.
16. BATTERY CHARGER FOR GENERATOR PROVIDE DEDICATED 120V CIRCUIT.
17. APPROXIMATE LOCATION OF GENERATOR ANNUNCIATOR. REFER TO SHEET EP101 FOR ADDITIONAL INFORMATION.
18. ELECTRICAL SERVICE DISCONNECT FOR BUILDING. REFER TO SHEET EP101 AND E-601 FOR ADDITIONAL INFORMATION.
19. TELECOM HAND HOLE, REFER TO SHEET SERIES "T" AND AS-102 FOR ADDITIONAL INFORMATION.
20. CAMERAS TO BE MOUNTED ON POLES. COORDINATE WITH TS101 FOR ADDITIONAL INFORMATION.

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1" = 20'-0"

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL SITE PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
ES101

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109
505.883.4111 www.bpce.com
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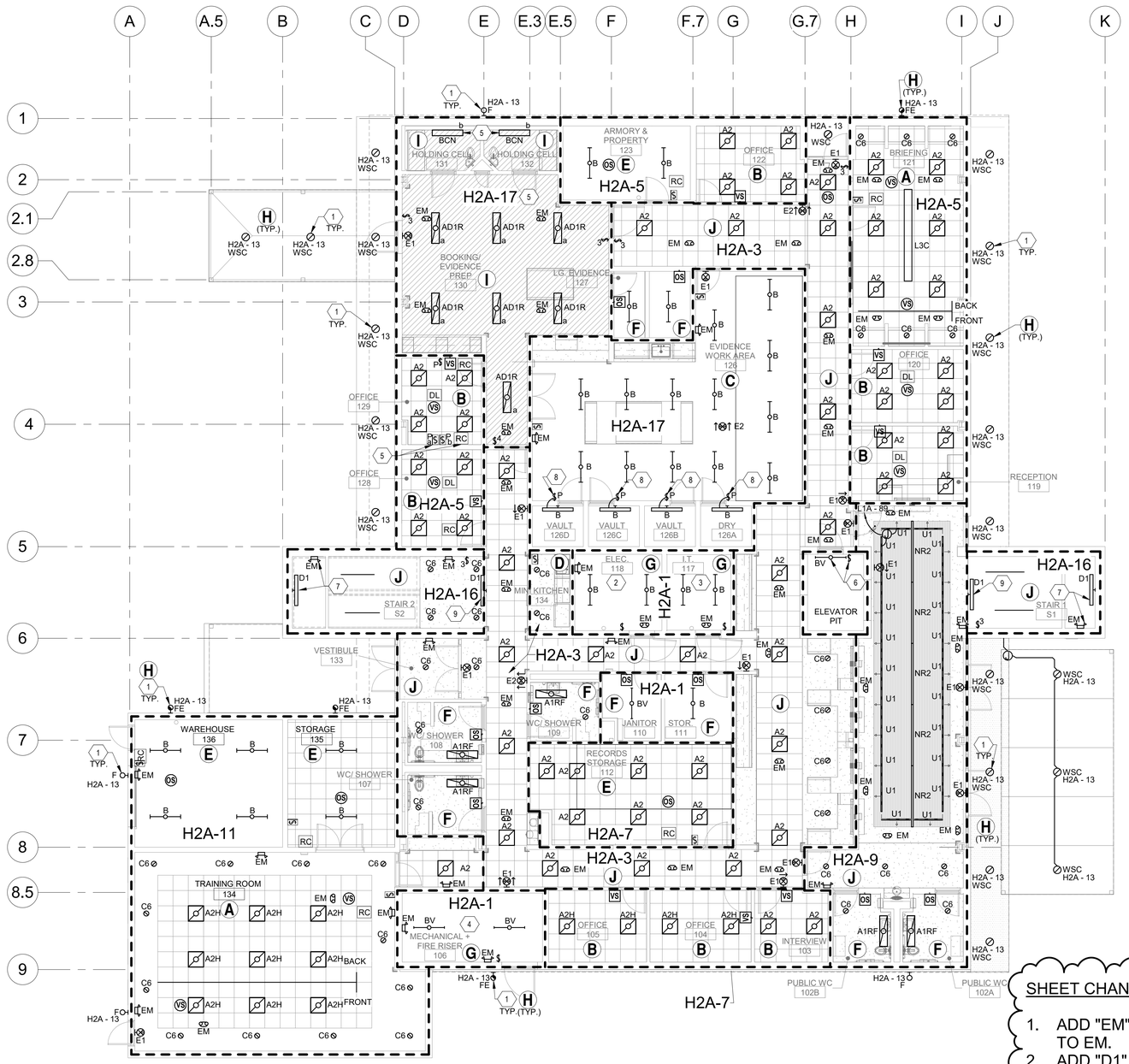
JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Bridgers & Paxton Project No: 8131 2/8/2022 8:38:07 AM D:\Revit 2019\Projects\8131_MEP Sandoval County Public Safety_LMMoreno-Chavez.rvt

RMKM
ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com



GENERAL SHEET NOTES

A. ALL EXIT SIGNS ARE TYPE "E1" (SINGLE FACE) ,"E2" (DOUBLE FACE) OR "EG" UNLESS OTHERWISE NOTED. ALL EXIT SIGNS WILL BE CONNECTED TO CIRCUIT SERVING THE ROOM THEY ARE LOCATED IN AND FROM NO OTHER CIRCUIT. AT ALL EXIT SIGNAGE LOCATIONS, AN ADDITIONAL HIGH ABUSE TYPE "EG" SIGN SHALL BE PROVIDED AT 12 INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE BOTTOM OF THE SIGN.
B. FOR ELECTRICAL LUMINAIRE SCHEDULE SEE SHEET E-701.
C. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND ELECTRICAL EQUIPMENT LAYOUT.
D. REFER TO SHEET E-501 FOR ADDITIONAL CEILING GRID MOUNTING SUPPORT INFORMATION. ALL LUMINAIRES SHALL BE SECURELY SUPPORTED SEPARATELY FROM CEILING GRIDS TO CEILING STRUCTURE. REFER TO SHEET A-111 FOR ADDITIONAL INFORMATION.
E. ALL LUMINAIRES IN DASHED AREA SHALL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED.
F. COVER PLATES OF ALL DEVICES SHALL BE LABELED WITH CIRCUIT IT IS CONNECTED TO. SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 26 0553 FOR ADDITIONAL INFORMATION. FOR LIGHTING CONTROL PROVIDE PLACARD ADJACENT TO SWITCH DEVICE TO COMMUNICATE LIGHTING CONTROL. REFER TO DETAILS 6, 7, AND 8 ON SHEET E-501 FOR ADDITIONAL INFORMATION. SECURELY ATTACH TO WALL WITH SCREWS. ADHESIVE NOT ACCEPTABLE.

REFER TO SHEET E-702 FOR LIGHTING SEQUENCE OF OPERATION.
Ⓐ INDICATES SEQUENCE IN EACH ROOM.

KEYNOTES

1. ALL EXTERIOR BUILDING MOUNTED LUMINAIRES WILL BE ROUTED THROUGH A TIMECLOCK LOCATED IN THE ELECTRICAL ROOM.
2. REFER TO SHEET SERIES "EP" FOR ELECTRICAL EQUIPMENT LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS CENTERED AND AWAY FROM OBSTRUCTION.
3. FOR LUMINAIRE LOCATIONS, COORDINATE WITH TELECOMMUNICATIONS RACK PLACEMENT. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS AWAY FROM OBSTRUCTION AND BOTTOM OF LUMINAIRE IS FLUSH WITH BOTTOM OF CABLE TRAY.
4. REFER TO SHEET SERIES "M" AND "P" FOR MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK, AND PIPING LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT AND UTILIZE UNISTRUT NEAR OR UNDER DUCTWORK SO THAT LOCATION IS AWAY FROM OBSTRUCTION, IF NECESSARY.
5. CONTROL FOR THIS ROOM SHALL BE LOCATED IN SERGEANT OFFICE 129. REFER TO THE LIGHTING SEQUENCE OF OPERATION ON SHEET E-702 FOR LIGHTING CONTROL AND DEVICE INFORMATION. COORDINATE ALL ELECTRICAL REQUIREMENTS FOR THIS AREA BEFORE THE START OF ANY WORK.
6. ELEVATOR PIT LIGHT AND SWITCH. LOCATE SWITCH ADJACENT TO ENTRY. POWER LUMINAIRE FROM RECEPTACLE IN ELEVATOR PIT. REFER TO SHEET EP101 FOR ADDITIONAL INFORMATION.
7. LUMINAIRE INDICATED IS LOCATED 8'-0" ABOVE LANDING.
8. ONE SWITCH, SINGLE POLE TOGGLE PILOT LIGHT SWITCH WILL CONTROL ROOM LIGHTING FROM OUTSIDE OF ROOM.
9. MOUNT LUMINAIRE 6" ABOVE CORNER OF SOFFIT.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

SHEET CHANGES

1. ADD "EM" LUMINAIRES. CHANGE EMC TO EM.
2. ADD "D1" LUMINAIRES AT STAIRS.
3. ADD "B" LUMINAIRES.
4. ADD "E1" AT LOBBY DOOR.
5. GENERAL NOTE " UPDATE.
6. ADD NOTE 9.
7. ADD NOTE 5 TO ROOM 129 DEVICES.

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
LIGHTING LEVEL 01 FLOOR PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
EL101

A1 / EL101 LIGHTING LEVEL 01 FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'

N

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JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Bridgers & Paxton Project No: 8131 2/8/2022 8:37:30 AM D:\Revit 2019\Projects\8131_MEP Sandoval County Public Safety_LMMoreno-Chavez.rvt

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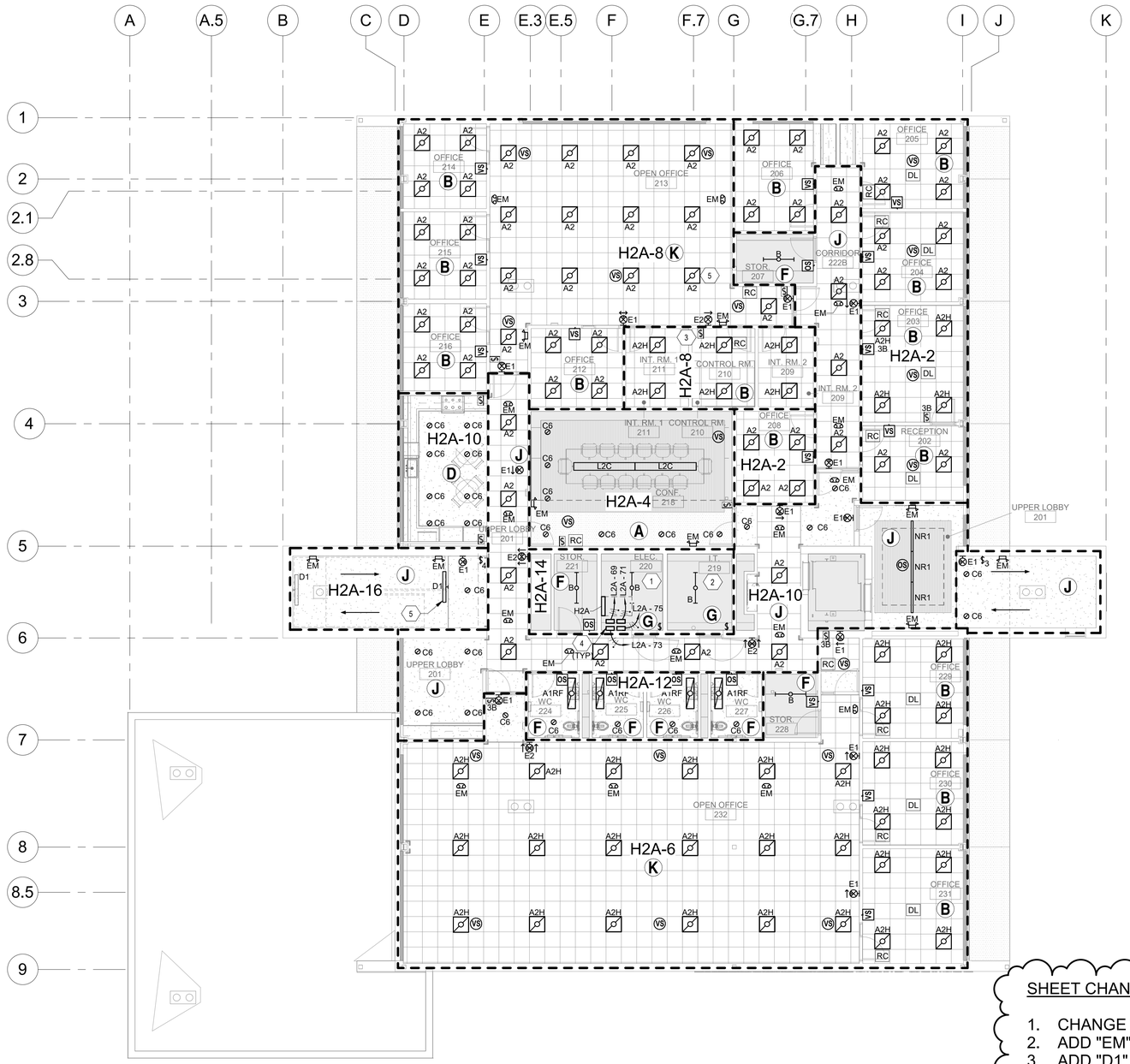

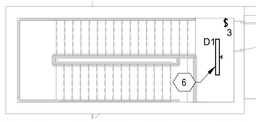

A2 LIGHTING PENTHOUSE PLAN
SCALE: 1/8" = 1'-0"

A1 EL102 LIGHTING LEVEL 02 FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'

N

GENERAL SHEET NOTES

A. ALL EXIT SIGNS ARE TYPE "E1" (SINGLE FACE) ,"E2" (DOUBLE FACE) OR "EG" UNLESS OTHERWISE NOTED. ALL EXIT SIGNS WILL BE CONNECTED TO CIRCUIT SERVING THE ROOM THEY ARE LOCATED IN AND FROM NO OTHER CIRCUIT. AT ALL EXIT SIGNAGE LOCATIONS, AN ADDITIONAL HIGH ABUSE TYPE "EG" SIGN SHALL BE PROVIDED AT 12 INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE BOTTOM OF THE SIGN.
B. FOR ELECTRICAL LUMINAIRE SCHEDULE SEE SHEET E-701.
C. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND ELECTRICAL EQUIPMENT LAYOUT.
D. REFER TO SHEET E-501 FOR ADDITIONAL CEILING GRID MOUNTING SUPPORT INFORMATION. ALL LUMINAIRES SHALL BE SECURELY SUPPORTED SEPARATELY FROM CEILING GRIDS TO CEILING STRUCTURE. REFER TO SHEET A-111 FOR ADDITIONAL INFORMATION.
E. ALL LUMINAIRES IN DASHED AREA SHALL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED.
F. COVER PLATES OF ALL DEVICES SHALL BE LABELED WITH CIRCUIT IT IS CONNECTED TO. SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 26 0553 FOR ADDITIONAL INFORMATION. FOR LIGHTING CONTROL PROVIDE PLACARD ADJACENT TO SWITCH DEVICE TO COMMUNICATE LIGHTING CONTROL. REFER TO DETAILS 6, 7, AND 8 ON SHEET E-501 FOR ADDITIONAL INFORMATION. SECURELY ATTACH TO WALL WITH SCREWS. ADHESIVE NOT ACCEPTABLE.

REFER TO SHEET E-702 FOR LIGHTING SEQUENCE OF OPERATION. (A) INDICATES SEQUENCE IN EACH ROOM.

KEYNOTES

1. REFER TO SHEET SERIES "EP" FOR ELECTRICAL EQUIPMENT LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS CENTERED AND AWAY FROM OBSTRUCTION.
2. FOR LUMINAIRE LOCATIONS, COORDINATE WITH TELECOMMUNICATIONS AND PLACEMENT. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS AWAY FROM OBSTRUCTION AND BOTTOM OF LUMINAIRE IS FLUSH WITH BOTTOM OF CABLE TRAY.
3. PROVIDE TWO ADDITIONAL DIMMER SWITCHES TO CONTROL INTERVIEW ROOM 1, 211, AND 2, 209.
4. PROGRAMMABLE TIME CLOCK WITH CONTACTOR FOR EXTERIOR LIGHTING. REFER TO DETAILS ON SHEET E-604 FOR ADDITIONAL INFORMATION.
5. MOUNT LUMINAIRE 6" ABOVE CORNER OF SOFFIT.
6. MOUNT LUMINAIRE SURFACE TO CEILING.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

NO.	ISSUE	DATE
2	~~Addendum No. 2~~	~~2/10/2022~~
1	Construction Set modifications to Permit Set	12/22/2021

SHEET CHANGES

1. CHANGE "EMC" LUMINAIRES TO "EM".
2. ADD "EM" LUMINAIRES.
3. ADD "D1" LUMINAIRES AT STAIRS.
4. UPDATED ALL GENERAL NOTES.
5. UPDATED NOTE 3.
6. ADDED NOTE 5 AND 6
7. ADDED PENTHOUSE PLAN.
8. ADD LIGHTING CONTROL SEQUENCE TO ROOM 210.

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
LIGHTING LEVEL 02 FLOOR PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
EL102

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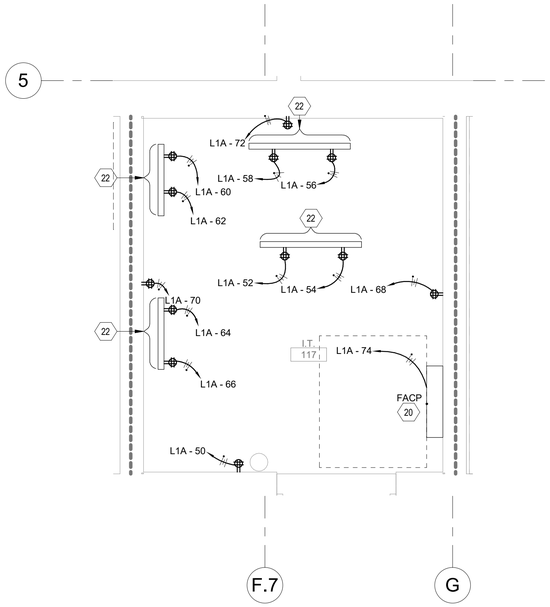
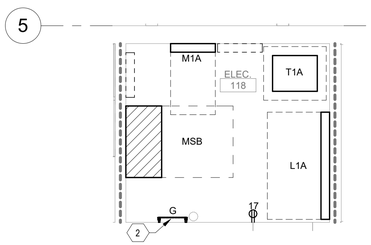
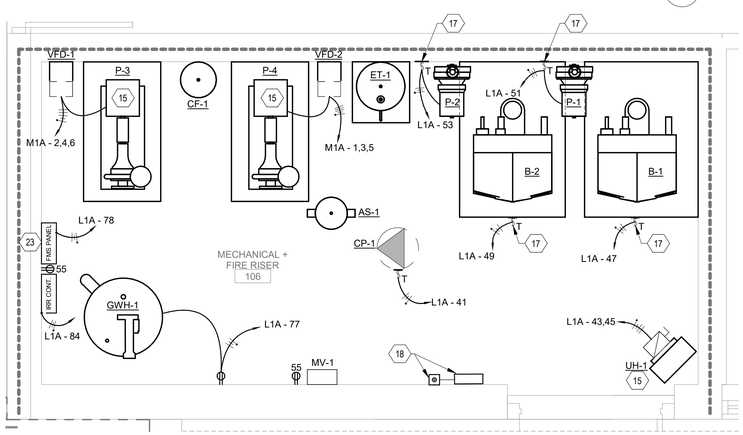


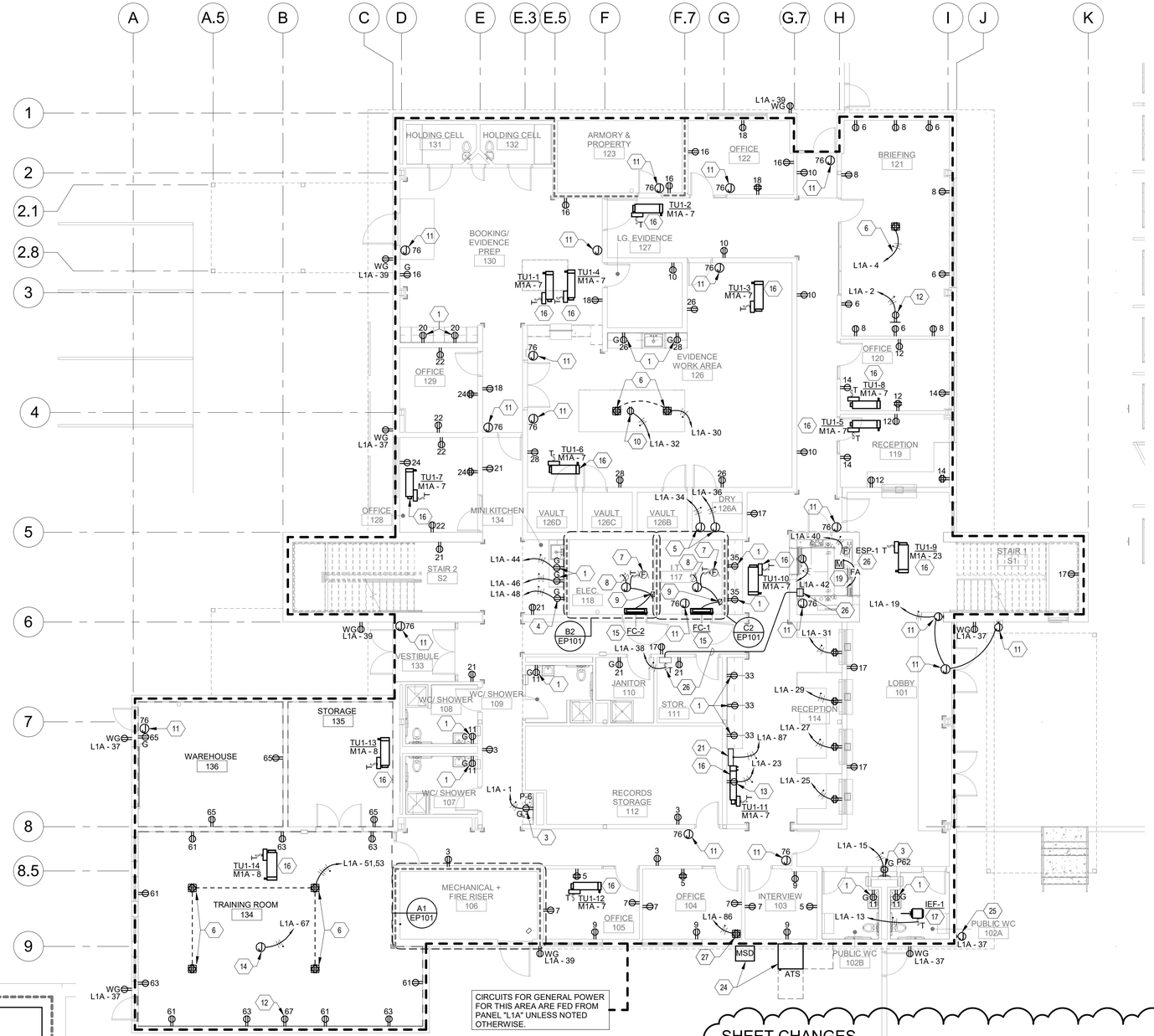
C2 EP101 ENLARGED IT 117
1/2" = 1'-0"



B2 EP101 ENLARGED ELECT. 118
1/4" = 1'-0"



A1 EP101 1ST FLOOR MECHANICAL ROOM 106
1/2" = 1'-0"



A3 EP101 POWER LEVEL 01 FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'

SHEET CHANGES

1. ADJUST NOTES FOR FC2 AND FC1.
2. ADD POWER FOR RACK IN ROOM 104 & QUADPLEX RECEPTACLES.
3. ADD CIRCUIT INFORMATION FOR ELECTRONIC BELL.
4. ADJUSTED EXTERIOR ELECTRICAL EQUIPMENT SIZE.
5. ADD NOTES 25 THROUGH 27.
6. ADD POWER AND NOTES TO EXTERIOR DOOR AT 1/G.7
7. ADJUSTED FLOOR BOXES TO MATCH "T" SHEETS.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

RMKM ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

A. GFCI RECEPTACLES SHALL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS SHALL BE GFCI RATED AND WEATHERPROOF.
B. CONTROLS FOR ALL MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON SHEET SERIES "M". RACEWAY PATHS FOR CONTROLS AND WIRING WILL BE INSTALLED AS INDICATED ON CONTROL DIAGRAMS. ALSO REFER TO SPECIFICATION SECTION 23 0549 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY SHEET SERIES "M".
C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 23 0549 FOR ADDITIONAL INFORMATION.
D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.
F. INSTALL CONDUITS IN OPEN CEILING AREAS AS CLOSE TO STRUCTURE AS POSSIBLE.
G. COVER PLATES OF ALL DEVICES SHALL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 26 0553 FOR ADDITIONAL INFORMATION.

KEYNOTES

1. MOUNT DEVICE(S) AT 44" AFF.
2. GROUND BAR. REFER TO MAIN GROUNDING ELECTRODE BUS BAR DETAIL 3 ON SHEET E-501 AND ELECTRICAL GROUNDING DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.
3. PROVIDE DEVICE FOR ELECTRIC WATER COOLER/BOTTLE FILLER. PROVIDE GFCI CIRCUIT BREAKER IN PANEL, NOT AT RECEPTACLE. MOUNT DEVICE SO IT IS CONCEALED BEHIND UNIT ALONG WITH CORD. COORDINATE WITH MANUFACTURER'S FOR ALL REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.
4. MOUNT DEVICE AT 48" AFF FOR REFRIGERATOR. LABEL COVER PLATE " REFRIGERATOR".
5. ELECTRICAL CONNECTION FOR EVIDENCE DRYER CABINETS. PROVIDE CIRCUIT INDICATED.
6. FLOOR BOX FOR ELECTRICAL AND TECHNOLOGY. REFER TO SHEET T-505 FOR ADDITIONAL. INFORMATION. PROVIDE 3/4" CONDUIT BETWEEN OUTLETS AND HOMERUN TO PANEL MINIMUM. REFER TO ARCHITECTURAL DIMENSIONAL SHETS FOR FLOOR BOX LOCATION.
7. CONDENSATE PUMP AS REQUIRED.
8. EXTEND POWER UP TO ROOFTOP UNIT ASSOCIATED WITH THIS EQUIPMENT. REFER TO 'M' SHEET SERIES FOR ADDITIONAL INFORMATION.
9. PROVIDE A KNIFE BLADE DISCONNECT SWITCH ADJACENT TO MECHANICAL UNIT. EXTEND RACEWAY AND CONDUCTORS TO ASSOCIATED ROOFTOP UNIT ASSOCIATED WITH THIS EQUIPMENT. REFER TO 'M' SHEET SERIES FOR ADDITIONAL INFORMATION.
10. OVERHEAD POWER REEL. COORDINATE EXACT LOCATION PER ARCHITECTURAL DIRECTION PRIOR TO THE START OF ANY WORK. REFER TO SHEET E-501 FOR ADDITIONAL INFORMATION.
11. PROVIDE JUNCTION BOX WITH POWER FOR TECHNOLOGIES SUCH AS ADA ACCESS, CARD ACCESS HANDICAP AND ANY OTHER SUCH SYSTEMS FOR DOORS INDICATED BY ARCHTECTS DOOR SCHEDULE. COORDINATE ALL TERMINATIONS WITH TECHNOLOGY AND HARDWARE PROVIDER OR INSTALLER PRIOR TO ROUGH-IN FOR COMPLETE INSTALLATION REQUIREMENTS.
12. RECEPTACLE FOR WALL MOUNTED DISPLAY. MOUNT ADJACENT TO DATA/AV OUTLETS. COORDINATE WITH SHEET SERIES "T" FOR ADDITIONAL INFORMATION. REFER TO "T" SHEETS FOR MOUNTING DETAILS AND ADDITIONAL INFORMATION.
13. DEVICE IS FOR COPIER, PROVIDE DEDICATED CIRCUIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
14. DEVICE FOR PROJECTION SCREEN. COORDINATE WITH MANUFACTURER FOR ALL REQUIREMENTS. REFER TO SHEET SERIES "T" FOR ADDITIONAL INFORMATION.
15. FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS. REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND OTHER INFORMATION.
16. COORDINATE POWER CONNECTIONS WITH MECHANICAL CONTACTOR AND ARCHITECT FOR ACCESS PANEL FOR J-BOX IN CEILING SPACE, WHERE NECESSARY.
17. ELECTRICAL CONNECTION FOR MECHANICAL EQUIPMENT. COORDINATE FINAL LOCATION OF EQUIPMENT PRIOR TO START OF ANY WORK. REFER TO 'M' SHEET SERIES FOR ADDITIONAL INFORMATION.
18. EMERGENCY POWER OFF (EPO) RED MUSHROOM HEAD PUSH BUTTON FOR BOILER AND WATER HEATER SHUT OFF. TERMINATE CONDUCTORS TO EACH BOILER AND WATER HEATER PER MANUFACTURER'S DIRECTION. EACH BOILER AND WATER HEATER'S CIRCUIT WILL BE ROUTED THROUGH A CONTACTOR (8 POLE) WHICH WILL BE MOUNTED FOR EASY ACCESS TO THE OWNER WITHOUT A LADDER. REFER TO DETAIL 10 ON SHEET E-501 FOR ADDITIONAL INFORMATION.
19. MOUNT DEVICE 6" BELOW FLOOR LEVEL IN PIT AND WHERE it WILL NOT INTERFERE WITH OPERATION OF ELEVATOR.
20. FIRE ALARM CONTROL PANEL (FACP) OR FIRE ALARM TERMINAL CABINET (FATC). REFER TO SHEET E-602 FOR ADDITIONAL INFORMATION. PROVIDE 120V POWER.
21. GENERATOR ANNUCIATOR. REFER TO SEET E-604 FOR ADDITIONAL INFORMATION. FINAL LOCATION TO BE COORDINATED WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
22. MOUNT DEVICE ADJACENT TO CABLE TRAY ON STRUT SUPPORT. DO NOT MOUNT DEVICE DIRECTLY TO CABLE TRAY.
23. FMS CONTROL EQUIPMENT. PROVIDE JUNCTION BOX FOR CIRCUIT TERMINATION UNIT. COORDINATE WITH CONTROLS CONTRACTOR FOR EXACT LOCATION.
24. EXTERIOR ELECTRICAL EQUIPMENT. REFER TO SHEET ES101 FOR ADDITIONAL INFORMATION.
25. PROVIDE POWER FOR ELECTRONIC FIRE ALARM BELL.
26. ELEVATOR SUMP CONTROLLER. PROVIDE A 1"C WITH PULL ROPE TO START COIL J-BOX IN ELEVATOR PIT. REFER TO SHEET P-501, DETAIL 2 FOR ADDITIONAL INFORMATON. CIRCUIT HOMERUN ORIGINATE IN ROOM 111.
27. WALL MOUNTED PACK. PROVIDE DEVICE AT RACK LEVEL OR AS DIRECTED BY EQUIPMENT INSTALLER. COORDINATE LOCATION PRIOR TO COMMENCEMENT OF ANY WORK.

NO.	ISSUE	DATE
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PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
As indicated

RMKM PROJECT NO.
1904

DRAWN BY
AMH

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JMM

SHEET TITLE
POWER LEVEL 01 FLOOR PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
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BRIDGERS & PAXTON
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JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Bridgers & Paxton Project No: 8131 2/8/2022 8:37:46 AM D:\Revit 2019\Projects\8131_MEP Sandoval County Public Safety_LMMoreno-Chavez.rvt

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

RMKM ARCHITECTURE, PC

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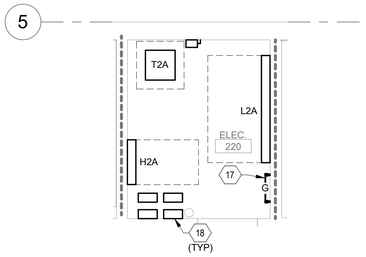
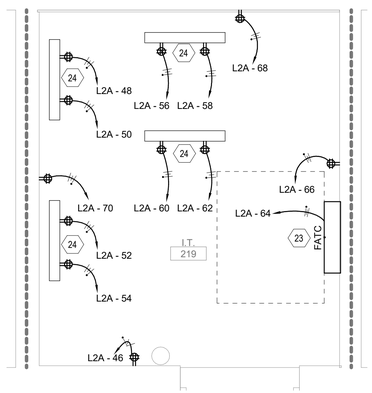


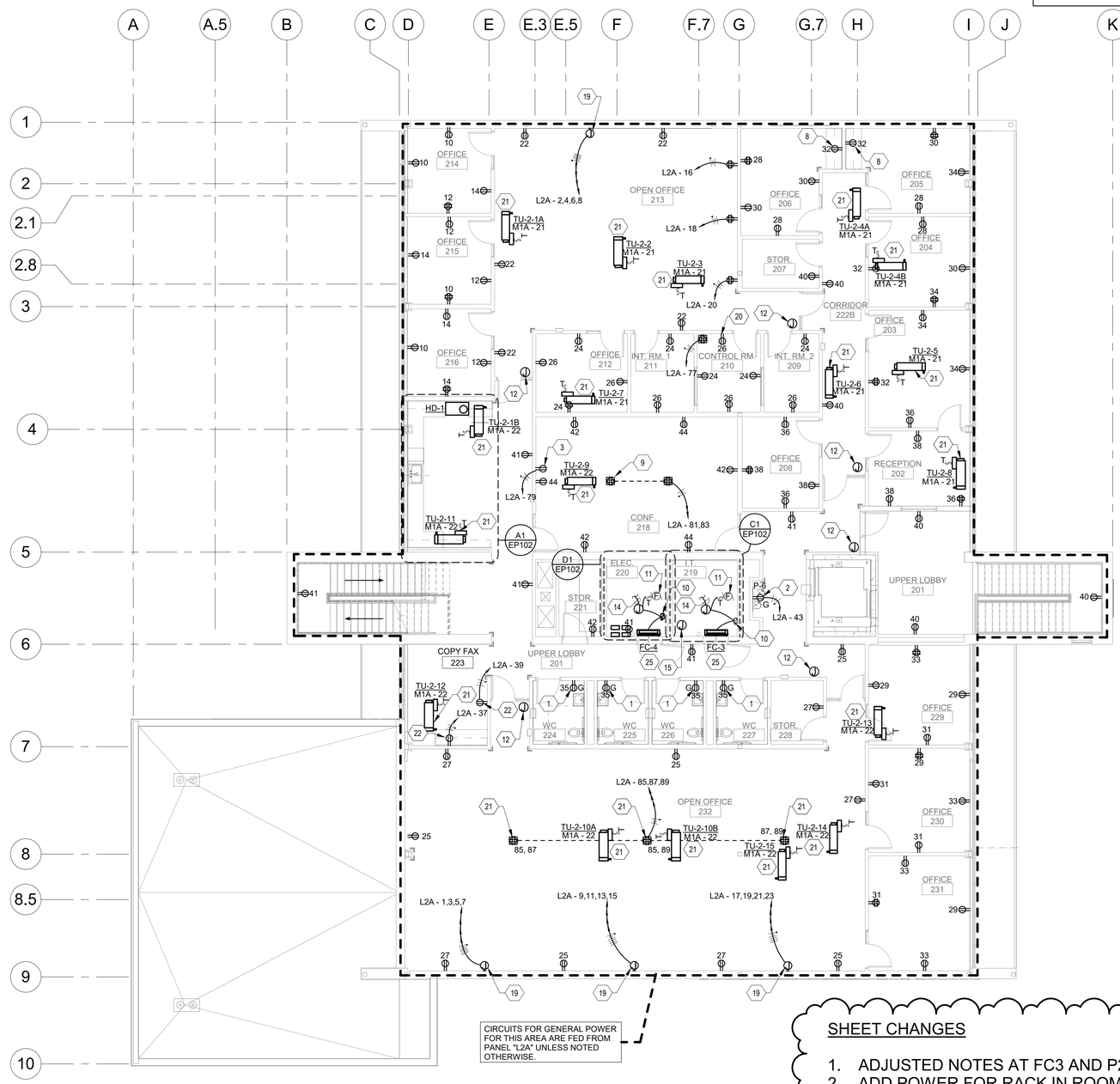
D1 EP102 2ND FLOOR ELECTRICAL ROOM 220

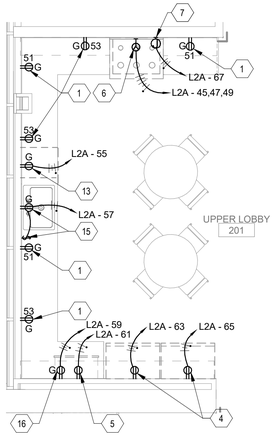
1/4" = 1'-0"



C1 EP102 2ND FLOOR IT ROOM 219

1/2" = 1'-0"





A1 EP102 ENLARGED BREAK ROOM 2ND FLOOR

1/4" = 1'-0"

A3 EP102 POWER LEVEL 02 FLOOR PLAN

1/8" = 1'-0"

0' 4' 8' 16'

SHEET CHANGES

1. ADJUSTED NOTES AT FC3 AND P24.
2. ADD POWER FOR RACK IN ROOM 210 AND QUADPLEX RECEPTACLE.
3. ADDED NOTE 25.
4. CHANGE NOTE 20.
5. ADJUSTED FLOOR BOXES TO MATCH "T.
6. CHANGED NOTE 18 TO 19 AT NORTH WALL OF ROOM 213.
7. ADJUST INFORMATION TO A1 ENLARGED PLAN

GENERAL SHEET NOTES

A. GFCI RECEPTACLES SHALL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS SHALL BE GFCI RATED AND WEATHERPROOF.

B. CONTROLS FOR ALL MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON SHEET SERIES "M". RACEWAY PATHS FOR CONTROLS AND WIRING WILL BE INSTALLED AS INDICATED ON CONTROL DIAGRAMS. ALSO REFER TO SPECIFICATION SECTION 23 0549 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY SHEET SERIES "M".

C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 23 0549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.

F. INSTALL CONDUITS IN OPEN CEILING AREAS AS CLOSE TO STRUCTURE AS POSSIBLE.

G. COVER PLATES OF ALL DEVICES SHALL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 26 0553 FOR ADDITIONAL INFORMATION.

KEYNOTES

1. MOUNT DEVICE(S) AT 44" AFF.
2. PROVIDE DEVICE FOR ELECTRICAL WATER COOLER. RECEPTACLE TO BE MOUNTED BEHIND WATER COOLER. CIRCUITS SHALL BE PROTECTED BY A GFCI CIRCUIT BREAKER. REFER TO PANEL SCHEDULE "L2A" FOR ADDITIONAL INFORMATION. COORDINATE WITH MANUFACTURER FOR ALL REQUIREMENTS INCLUDING MOUNTING HEIGHTS OF DEVICE PRIOR TO START OF ANY WORK.
3. RECEPTACLE FOR FLAT SCREEN MONITOR. REFER TO "T" SHEETS FOR MOUNTING AND ADDITIONAL INFORMATION. REFER TO "T" SHEET SERIES FOR ADDITIONAL INFORMATION.
4. MOUNT DEVICE 44" AFF BEHIND REFRIGERATOR. CONTRACTOR SHALL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
5. DEVICE FOR MICROWAVE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. PROVIDE DEDICATED CIRCUIT. LABEL COVER PLATE "MICROWAVE".
6. ELECTRIC RANGE/STOVE. MOUNT DEVICE BEHIND UNIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
7. DEVICE TO SERVE RESIDENTIAL-TYPE EXHAUST HOOD (ABOVE COOKING RANGE). COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER AND CASEWORK INSTALLER. MECHANICAL FIRE SUPRESSION INCLUDED.
8. CABINET HEIGHT MOUNTED RECEPTACLE. COORDINATE LOCATION WITH CABINET LAYOUT PRIOR TO THE START OF ANY WORK. REFER TO ARCHITECTURAL SHEET SERIES FOR ADDITIONAL INFORMATION.
9. FLOOR BOX FOR ELECTRICAL AND TECHNOLOGY. REFER TO SHEET T-504 FOR ADDITIONAL INFORMATION. PROVIDE 3/4" CONDUIT BETWEEN OUTLETS AND HOMERUN TO PANEL MINIMUM.
10. PROVIDE A KNIFE BLADE DISCONNECT SWITCH ADJACENT TO MECHANICAL UNIT. EXTEND RACEWAY AND CONDUCTORS TO ASSOCIATED ROOFTOP UNIT ASSOCIATED WITH THIS EQUIPMENT. REFER TO "M" SHEET SERIES FOR ADDITIONAL INFORMATION.
11. CONDENSATE PUMP AS REQUIRED.EXTEND POWER UP TO ROOFTOP UNIT ASSOCIATED WITH THIS EQUIPMENT. REFER TO 'M' SHEET SERIES FOR ADDITIONAL INFORMATION.
12. PROVIDE JUNCTION BOX WITH POWER FOR TECHNOLOGIES SUCH AS ADA ACCESS, CARD ACCESS AND ANY OTHER SUCH SYSTEMS FOR DOORS INDICATED BY ARCHITECTS DOOR SCHEDULE. COORDINATE ALL TERMINATIONS WITH TECHNOLOGY AND HARDWARE PROVIDER OR INSTALLER PRIOR TO ROUGH-IN FOR COMPLETE INSTALLATION REQUIREMENTS.
13. DISHWASHER. INSTALL OUTLET WITHIN BASE CABINETRY AT ACCESSIBLE LOCATION. COORDINATE WITH EQUIPMENT INSTALLER.
14. EXTEND POWER UP TO ROOFTOP UNIT ASSOCIATED WITH THIS EQUIPMENT. REFER TO "M" SHEET SERIES FOR ADDITIONAL INFORMATION.
15. RESIDENTIAL-TYPE SINK DISPOSAL UNIT. OUTLET TO BE SWITCHED BY TOGGLE SWITCH ABOVE COUNTER. COORDINATE WITH SHEET SERIES "A" FOR EXACT LOCATION.
16. MOUNT DEVICE FOR COFFEE MAKER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. PROVIDE DEDICATED CIRCUIT. LABEL COVER PLATE "COFFEE MAKER".
17. GROUND BAR. REFER TO MAIN GROUNDING ELECTRODE BUS BAR DETAIL 3 ON SHEET E-501 AND ELECTRICAL GROUNDING DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.
18. LOCATION OF LIGHTING TIME CLOCKS. REFER TO SHEET E-604 FOR ADDITIONAL INFORMATION.
19. ELECTRICAL CONNECTION POINT FOR FURNITURE ASSEMBLY. PROVIDE CIRCUITS INDICATED. TERMINATION TO SYSTEM PARTITIONS WILL BE COORDINATED PRIOR TO COMMENCEMENT OF ANY WORK.
20. WALL MOUNTED RACK. PROVIDE DEVICE AT RACK LEVEL OR AS DIRECTED BY EQUIPMENTINSTALLER. COORDINATE LOCATION PRIOR TO COMMENCEMENT OF ANY WORK.
21. COORDINATE POWER CONNECTIONS WITH MECHANICAL CONTACTOR AND ARCHITECT FOR ACCESS PANEL FOR J-BOX IN CEILING SPACE IF NECESSARY.
22. DEVICE IS FOR COPIER, PROVIDE DEDICATED CIRCUIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
23. FIRE ALARM CONTROL PANEL (FACP) OR FIRE ALARM TERMINAL CABINET (FATC). REFER TO SHEET E-602 FOR ADDITIONAL INFORMATION. PROVIDE 120V POWER.
24. MOUNT DEVICE ADJACENT TO CABLE TRAY ON STRUT SUPPORT. DO NOT MOUNT DEVICE DIRECTLY TO CABLE TRAY.
25. FOR EACH UNIT, REFER TO SHEET SERIES "M700" FOR MECHANICAL EQUIPMENT CHARACTERISICS. REFER TO SHET E-702 FOR ELECTRICALCONNECTION AND ADDITIONAL INFORMATION.

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SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
As indicated

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
POWER LEVEL 02 FLOOR PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
EP102

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REGISTERED PROFESSIONAL ENGINEER

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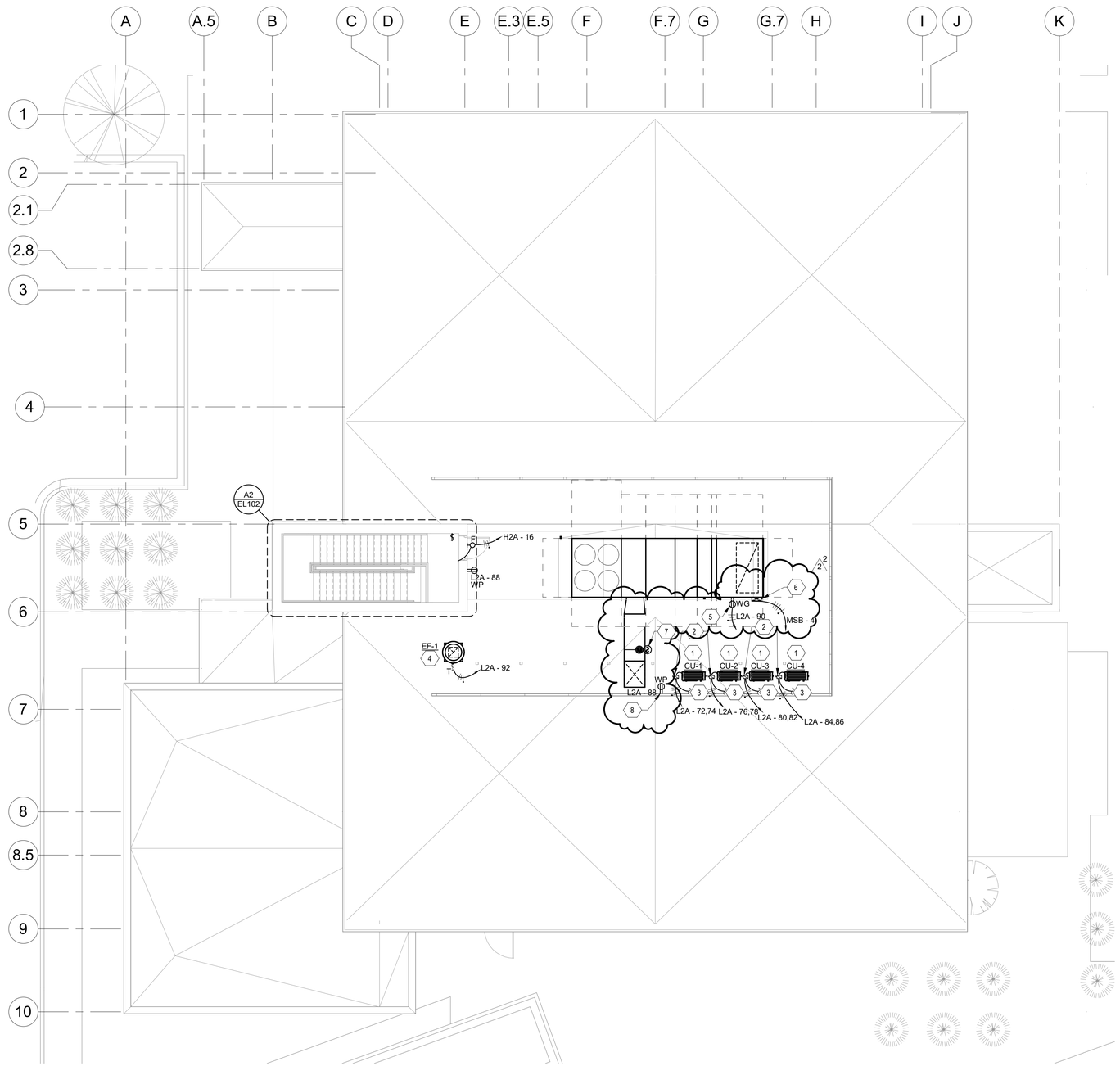

A1
EP131
ELECTRICAL ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16'

N

GENERAL SHEET NOTES

A. GFCI RECEPTACLES SHALL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS SHALL BE GFCI RATED AND WEATHERPROOF.
B. CONTROLS FOR ALL MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON SHEET SERIES "M". RACEWAY PATHS FOR CONTROLS AND WIRING WILL BE INSTALLED AS INDICATED ON CONTROL DIAGRAMS. ALSO REFER TO SPECIFICATION SECTION 23 0549 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY SHEET SERIES "M". CONTROL SHALL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.
C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 23 0549 FOR ADDITIONAL INFORMATION.
D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.
F. COVER PLATES OF ALL DEVICES SHALL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 26 0553 FOR ADDITIONAL INFORMATION.
G. REFER TO MECHANICAL EQUIPMENT SCHEDULE IN 'M' SHEET SERIES FOR ADDITIONAL INFORMATION.

KEYNOTES

1. FOR EACH UNIT REFER TO SHEET SERIES 'M' AND 'P' FOR EQUIPMENT CHARACTERISTICS. REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND ADDITIONAL INFORMATION.
2. MOUNT DISCONNECT PER DETAIL 5 ON SHEET M-504 FOR ADDITIONAL INFORMATION.
3. EXTEND RACEWAY AND CONDUCTORS TO ASSOCIATED INDOOR UNIT. UTILIZE A SMALL VAULT TO MINIMIZE ROOF PENETRATION. REFER TO SHEET SERIES 'M' FOR ADDITIONAL INFORMATION.
4. THERMAL OVERLOAD SWITCH SHALL BE RATED FOR HP OF EQUIPMENT BEING SERVED AT MINIMUM.
5. UNIT MOUNTED RECEPTACLE. PROVIDE #10 COPPER CONDUCTORS AS INDICATED IN A 3/4" CONDUIT.
6. REFER TO SHEET SERIES 'M' FOR EQUIPMENT CHARACTERISTICS AND E-601 FOR ELECTRICAL CONNECTION CHARACTERISTICS.
7. DUCT DETECTOR AND WIRING BY DIV. 28. DUCT DETECTOR INSTALLED BY DIV. 23.
8. DEVICE WILL BE SURFACE MOUNTED TO SCREEN ALL. ROUTE CONDUIT THROUGH ROOF WITH CU-1 RACEWAY TO MINIMIZE ROOF PENETRATIONS.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

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7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
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DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL ROOF PLAN

DESIGN PHASE
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22 DECEMBER 2021

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JOHN F. HECK IV
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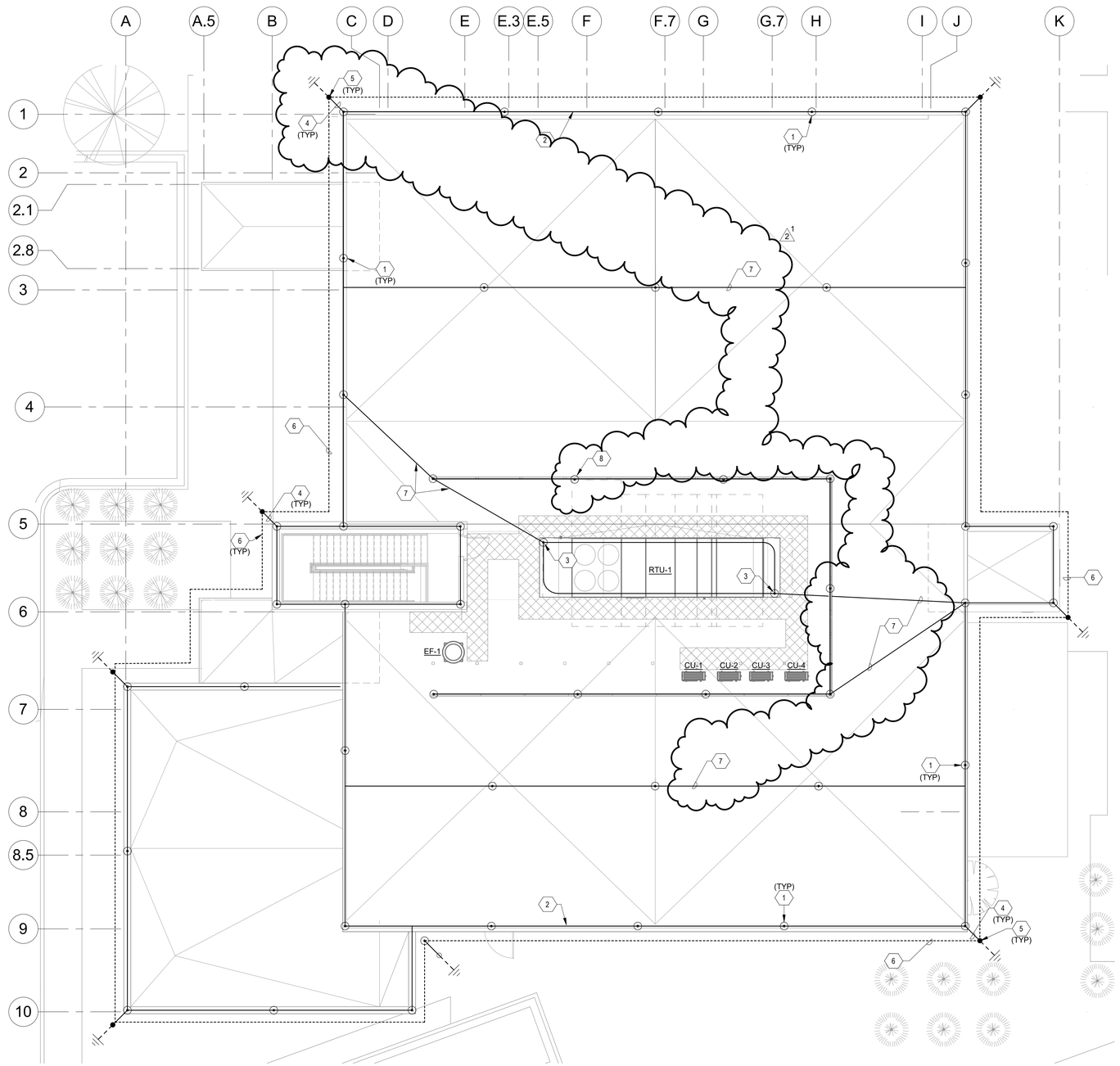

A1
LP131
ELECTRICAL ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16'

N

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GENERAL SHEET NOTES

A. LIGHTNING PROTECTION SYSTEM IS SHOWN DIAGRAMMATICALLY. CONTRACTOR WILL INSTALL PER NFPA 780 AND SPECIFICATION 264112 TO ACHIEVE MASTER LABEL.
B. REFER TO SHEET E-502 FOR LIGHTNING PROTECTION DETAILS AND ADDITIONAL INFORMATION.

KEYNOTES

1. 24" TALL LIGHTNING ARRESTORS.
2. LIGHTNING CONDUCTOR EXPOSED AND MOUNTED TO TOP OR SIDE OF PARAPET.
3. ATTACH LIGHTNING PROTECTION TO MECHANICAL EQUIPMENT.
4. DOWN CONDUCTOR FROM ROOF TOP LIGHTNING ARRESTORS TO COUNTERPOISE AND GROUND RODS. ROUTING OF DOWN CONDUCTOR TO COUNTERPOISE WILL BE INTERIOR TO WALL STRUCTURE, UNLESS DIRECTED OTHERWISE BY ARCHITECT.
5. GROUND RODS.
6. GROUND LOOP AROUND THE PERIMETER INSTALLED NOT MORE THAN 5'-0" FROM BUILDING AND 3'-0" BELOW GRADE.
7. LIGHTNING CONDUCTOR ROUTED ON ROOF. PER NFPA 780 REQUIREMENTS.
8. LIGHTNING CONDCTOR AND ARRESTORS ATTACHED TO TOP OF SHADE SCREEN.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE LIGHTNING PROTECTION SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO ENSURE THAT THE LIGHTNING PROTECTION SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE LIGHTNING PROTECTION SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE A MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM. NO CHANGE ORDERS WILL BE APPROVED FOR THE BASE SCOPE OF WORK.

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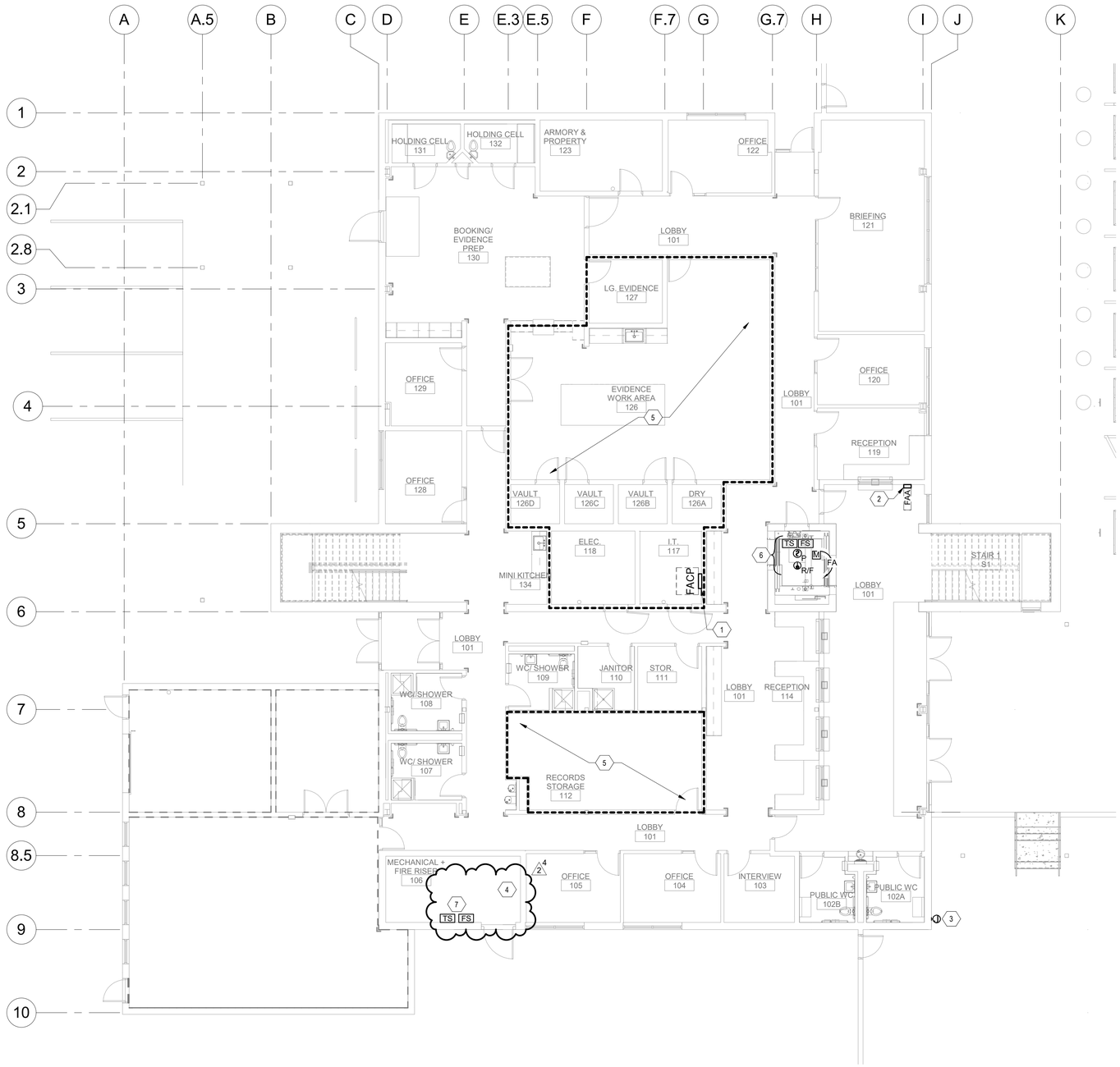

A1
FA101

FIRE ALARM LEVEL 01 FLOOR PLAN

1/8" = 1'-0"

0' 4' 8' 16'

N

GENERAL SHEET NOTES

H. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

I. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

J. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN. ALL WIRING SHALL BE IN RACEWAY PATH UNLESS INSTALL DICTATES OTHERWISE.

K. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

L. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS.

M. FIRE ALARM PANEL, REMOTE ANNUNCIATOR AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

N. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO LOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT IDENTIFICATION SHALL BE LABELED AT FIRE PANEL/EXTENDERS. PROVIDE SURGE PROTECTOR AT EACH FIRE ALARM PANEL OR POWER SUPPLY.

O. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, (FIGURE 10.18.2.1.1. 22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH BOTTOMS MOUNTED NO HIGHER THAN 48"AFF.

P. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO ESTABLISH A FIRE ALARM SYSTEM MONITORING CONTRACT OR PROVISIONS.

Q. ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.

R. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.

S. REFER TO SHEET E-603 FOR FIRE ALARM RISER DIAGRAM.

T. ALL STROBES IN CORRIDORS AND COMMON AREAS SHALL FLASH AT THE SAME TIME.

U. PROVIDE A VOICE EVACUATION SYSTEM WHERE NECESSARY PER THE OCCUPANCY TYPE, ASSEMBLY OF OCCUPANCY TYPE, NICET LEVEL III OR HIGHER DESIGNER AND INSTALLER PROFESSIONAL DIRECTION AND AS APPROVED BY THE STATE FIRE MARSHALL'S OFFICE. CONTRACTOR SHALL REFER TO SPECIFICATION 28 3111 FOR VOICE EVACUATION SYSTEM REQUIREMENTS.

V. CONTRACTOR SHALL VERIFY WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EACH SPACE CEILING TYPES AND HEIGHTS. MOUNTING OF ANY DEVICE TO A CEILING OR STRUCTURE SHALL BE COORDINATED PRIOR TO START OF ANY WORK.

W. CONTRACTOR SHALL COORDINATE ALL SIGNALING DEVICES REQUIRED ALONG EGRESS PATH WITH ARCHITECTURAL SHEET SERIES "G".

X. PROVIDE FIRE ALARM CONNECTION TO ELEVATOR PANEL. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENTS PRIOR TO THE START OF ANY WORK.

KEYNOTES

1. LOCATION OF FACP.
2. LOCATION OF FIRE ALARM ANNUNCIATOR.
3. J-BOX FOR POWER TO ELECTRICAL BELL. REFER TO SHEET EP101 AND FX SHEETS SERIES FOR ADDITIONAL INFORMATION.
4. LOCATION OF FLOOR ASSEMBLY. REFER TO "FX" SHEET SERIES FOR ACTUAL LOCATION AND ADDITIONAL INFORMATION.
5. LOCATION OF PRE-ACTION SYSTEM WITHIN DASHED AREA. REFER TO "FX" SHEET SERIES FOR ADDITIONAL INFORMATION. COORDINATE WITH NICET LEVEL III OR HIGHER FIRE ALARM DESIGNER TO PROVIDE THE ADEQUATE DEVICES FOR A COMPLETE SYSTEM.
6. PROVIDE DEVICES AT BOTTOM OF ELEVATOR SHAFT.
7. WET PIPE FIRE RISER ASSEMBLY. PROVIDE ADEQUATE NUMBER OF TAMPER AND FLOW SWITCHES.

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

ENTIRE FIRE ALARM SYSTEM WILL BE IN RACEWAYS; NO EXCEPTIONS!

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

RMKM
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400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

A. REFER TO SHEET G-103 FOR GROUP TYPES, OCCUPANCY LOCATIONS AND ADDITIONAL INFORMATION.
   1) PROVIDE AN ADDRESSIBLE FIRE ALARM SYSTEM IN THIS BUILDING.
   2) SIGNAL TYPE DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
   3) PROVIDE DETECTION DEVICES IN ALL UN-OCCUPIED SPACES INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, ETC.
   4) PROVIDE VOICE EVACUATION SPEAKER/STROBE NOTIFICATION DEVICES IN ALL OCCUPIED AREAS PER REQUIREMENTS BY THE NFPA, LOCAL CODES AND OCCUPANCY TYPE.
   5) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO START OF ANY WORK.
   6) PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND OVER AND FOR ALL MECHANICAL DUCTS, UNITS, FIRE SMOKE DAMPERS AND OTHER EQUIPMENT REQUIRING FIRE ALARM SIGNAL AND NOTIFICATION. CONTRACTOR SHALL FIELD VERIFY THESE UNITS IN EACH BUILDING. REFER TO SHEET SERIES "M" FOR ALL MECHANICAL REQUIREMENTS AND EQUIPMENT LOCATIONS.
   7) PROVIDE ADDRESSABLE DEVICES FOR FIRE/SMOKE DAMPERS. QUANTITY SHALL BE VERIFIED BY CONTRACTOR. COORDINATE SMOKE/FIRE DAMPER LOCATIONS IN FIELD AND INTERCONNECT AS REQUIRED. PROVIDE ADDRESSABLE MODULES AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL PRICING INFORMATION.
   8) HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
      a) MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
      b) CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
   9) FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
   10) WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO START OF ANY WORK.

B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A CODE COMPLIANT, NICET LEVEL III OR HIGHER DESIGN TO BE APPROVED BY THE STATE FIRE MARSHAL. ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS.

C. INFORMATION ON CONTRACT DOCUMENTS IS FOR GENERAL INFORMATION AND BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION. PROVIDE ADDITIONAL DEVICES AS REQUIRED.

D. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UNIT COST IN BID FOR INSTALL OF ALL SYSTEM DEVICES, WIRING AND PLACEMENT ON WALLS AND CEILINGS.

E. ALL NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED IN WALLS UNLESS REQUIRED TO BE IN CEILING SPACE. PROVIDE A RACEWAY PATH ABOVE THE ACCESSIBLE CEILING AS NECESSARY.

F. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.

G. INSTALLATION OF THIS SYSTEM SHALL NOT COMMENCE UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY STATE FIRE MARSHAL AND REVIEWED BY THE ENGINEER.

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
1904

DRAWN BY
LMC

CHECKED BY
JMM

SHEET TITLE
FIRE ALARM LEVEL 01 FLOOR PLAN

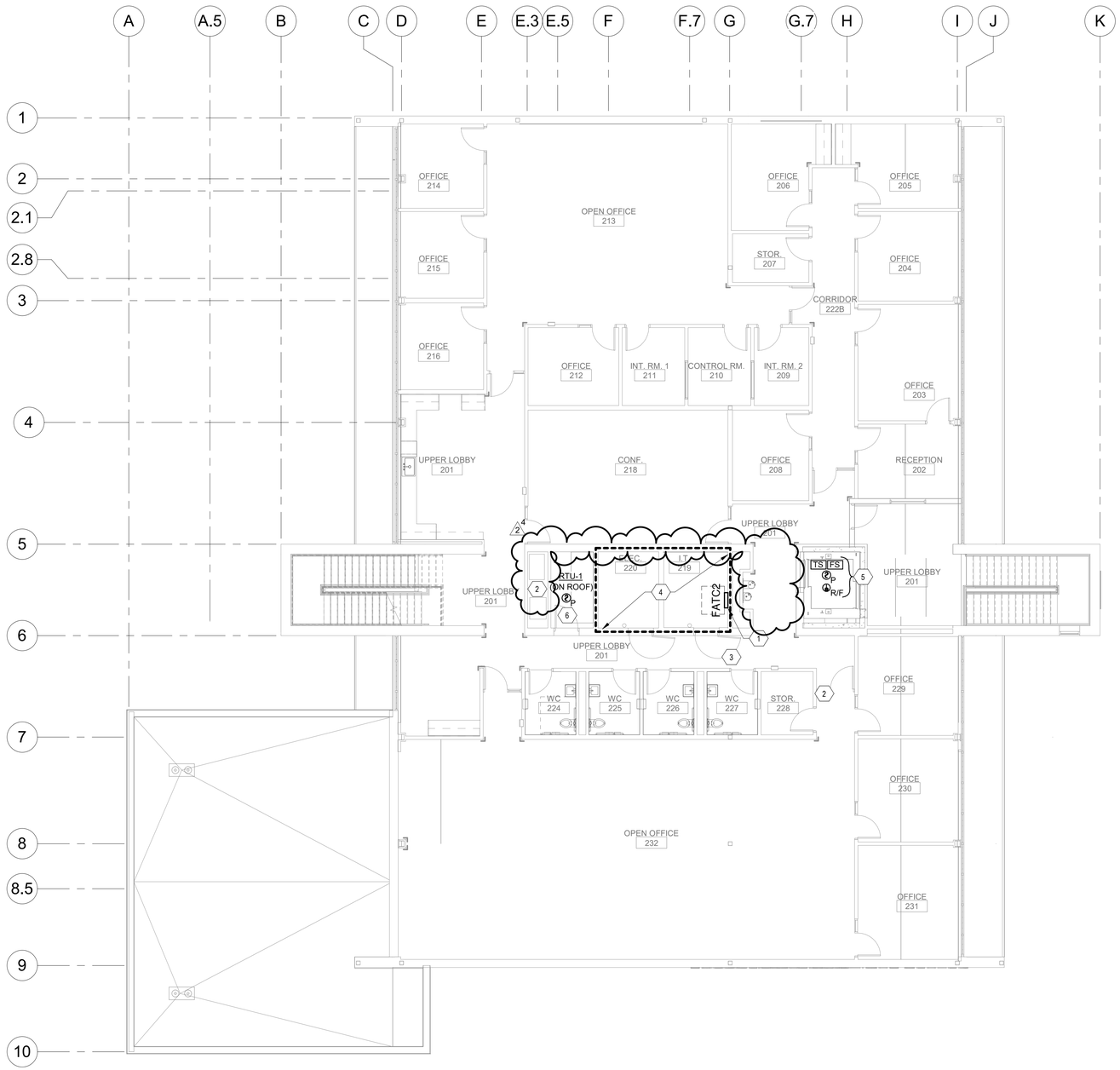
DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
FA101

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109
505.883.4111 www.bpce.com
INNOVATIVE | DEPENDABLE | SOLUTIONS

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Bridgers & Paxton Project No: 8131 2/9/2022 8:38:15 AM D:\Revit 2019\Projects\8131_MEP Sandoval County Public Safety_LMMoreno-Chavez.rvt



A1
FA102
FIRE ALARM LEVEL 02 FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'

N

GENERAL SHEET NOTES

H. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

I. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

J. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN. ALL WIRING SHALL BE IN RACEWAY PATH UNLESS INSTALL DICTATES OTHERWISE.

K. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

L. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS.

M. FIRE ALARM PANEL, REMOTE ANNUNCIATOR AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

N. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT IDENTIFICATION SHALL BE LABELED AT FIRE PANEL/EXTENDERS. PROVIDE SURGE PROTECTOR AT EACH FIRE ALARM PANEL OR POWER SUPPLY.

O. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, (FIGURE 10.18.2.1.1. 22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH BOTTOMS MOUNTED NO HIGHER THAN 48"AFF.

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KEYNOTES

1. LOCATION OF FATC2.
2. FIRE SMOKE DAMPERS CONNECT TO FIRE ALARM CONTROL PANEL.
3. LOCATION OF FLOOR ASSEMBLY. REFER TO "FX" SHEET SERIES FOR ACTUAL LOCATION AND ADDITIONAL INFORMATION.
4. LOCATION OF PRE-ACTION SYSTEM WITHIN DASHED AREA. REFER TO "FX" SHEET SERIES FOR ADDITIONAL INFORMATION. COORDINATE WITH NICET LEVEL III OR HIGHER FIRE ALARM DESIGNER TO PROVIDE THE ADEQUATE DEVICES FOR A COMPLETE SYSTEM.
5. PROVIDE DEVICES AT TOP OF ELEVATOR SHAFT.
6. SMOKE DETECTOR LOCATION PER MHTV, CONNECT TO FIRE ALARM AS NEEDED. DIV 23 TO INSTALL AND DIV 28 WILL PROVIDE CDN WIRE TO FACP.

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ, AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

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ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

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   6) PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND OVER AND FOR ALL MECHANICAL DUCTS, UNITS, FIRE SMOKE DAMPERS AND OTHER EQUIPMENT REQUIRING FIRE ALARM SIGNAL AND NOTIFICATION. CONTRACTOR SHALL FIELD VERIFY THESE UNITS IN EACH BUILDING. REFER TO SHEET SERIES "M" FOR ALL MECHANICAL REQUIREMENTS AND EQUIPMENT LOCATIONS.
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B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE STATE FIRE MARSHAL. ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS.

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D. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UNIT COST IN BID FOR INSTALL OF ALL SYSTEM DEVICES, WIRING AND PLACEMENT ON WALLS AND CEILINGS.

E. ALL NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED IN WALLS UNLESS REQUIRED TO BE IN CEILING SPACE. PROVIDE A RACEWAY PATH ABOVE THE ACCESSIBLE CEILING AS NECESSARY.

F. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.

G. INSTALLATION OF THIS SYSTEM SHALL NOT COMMENCE UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY THE ENGINEER.

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
1904

DRAWN BY
LMC

CHECKED BY
JMM

SHEET TITLE
FIRE ALARM LEVEL 02 FLOOR PLAN

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
FA102

BRIDGERS & PAXTON
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Albuquerque, NM 87109
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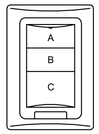
INNOVATIVE | DEPENDABLE | SOLUTIONS

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER



THREE BUTTON
DLM WALL SWITCH
LMSW-103

A = 50% LIGHT LEVEL

B = 100% LIGHT LEVEL

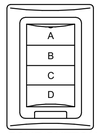
C = ALL OFF

LIGHTING CONTROL DESCRIPTION PLACARD
MOUNT ADJACENT TO SWITCH(ES)

REFER TO SHEET SERIES "EL" FOR ADDITIONAL INFORMATION

7 / E-501 WATT STOPPER 3-BUTTON DETAIL

NO SCALE



FOUR BUTTON
DLM WALL SWITCH
LMSW-104

A = 50% LIGHT LEVEL

B = 100% LIGHT LEVEL

C = A/V: FRONT OFF/ BACK 50%

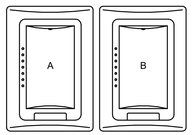
D = ALL OFF

LIGHTING CONTROL DESCRIPTION PLACARD
MOUNT ADJACENT TO SWITCH(ES)

REFER TO SHEET SERIES "EL" FOR ADDITIONAL INFORMATION

8 / E-501 WATT STOPPER 4-BUTTON DETAIL

NO SCALE



DIGITAL DIMMING
WALL SWITCHES

A = DIMMING CONTROL

B = COLOR TEMPERATURE CONTROL

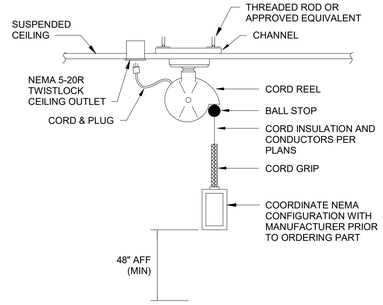
LIGHTING CONTROL DESCRIPTION PLACARD
MOUNT ADJACENT TO SWITCH(ES)

REFER TO SHEET SERIES "EL" FOR ADDITIONAL INFORMATION

9 / E-501 2-DIMMER SWITCH DETAIL

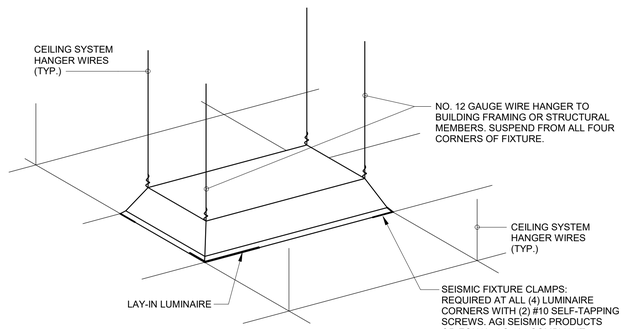
NO SCALE

ASSEMBLY TO CONSIST OF THE FOLLOWING COMPONENTS OR APPROVED EQUAL (BASIS OF DESIGN):
- HUBBELL #BRY45123GF20-REEL W/MOUNTING BASE AND 12/3 WIRE LEADS AND 20A GFCI MODULE.
- HUBBELL #3099-PORTABLE OUTLET BOX
- HUBBELL #3057-LIFTING COVER WITH APPROPRIATE DEVICE PLATE.
- HUBBELL #074093403-STAINLESS STEEL CORD GRIP



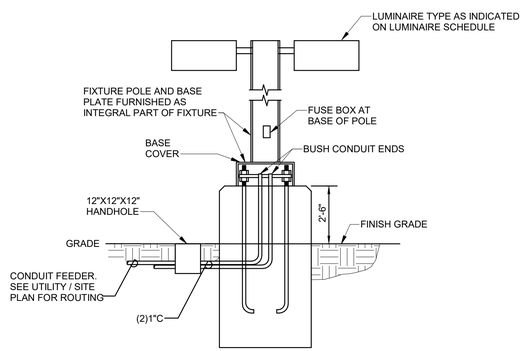
4 / E-501 POWER CORD REEL DETAIL

NO SCALE



5 / E-501 LUMINAIRE SUPPORT DETAIL

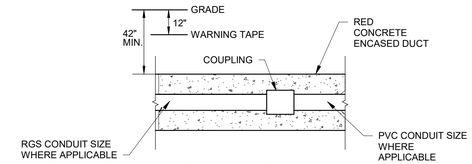
NO SCALE



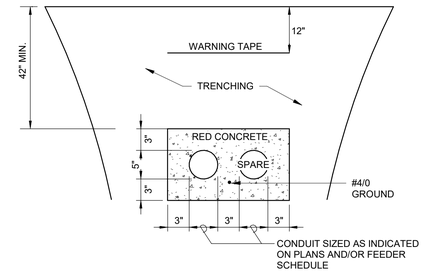
NOTE:
1. POLE BASE DETAILS SHOWS INSTALLATION OF RACEWAY PATHS FOR POLE POWER AND GROUNDING ONLY. CONCRETE, REBAR AND MOUNTING SHALL BE SPECIFIED/APPROVED BY THE STRUCTURAL ENGINEER. REFER TO SHEET SERIES "AS" FOR ADDITIONAL INFORMATION.
2. HAND HOLE NEAR POLE BASE WILL BE A 12"x12"x12" VEHICULAR RATED FOR 15k LBS. WITH A TAMPER PROOF COVER LABELED "LIGHTING". QUAZITE OR APPROVED EQUAL.
3. PROVIDE GROUND FOR POLE AND STRUCTURE TO GROUND POLE AND LUMINAIRE.
4. REFER TO TECHNOLOGY POLE DETAILS FOR CAMERA MOUNTING INFORMATION.

6 / E-501 POLE BASE DETAIL

NO SCALE



DUCTBANK SIDEVIEW
ONLY ONE CONDUIT SHOWN FOR CLARITY.

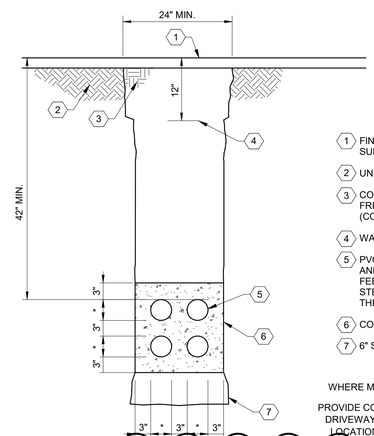


SIMILAR FOR LOCATIONS
WHERE MORE OR LESS CONDUITS ARE REQUIRED

PROVIDE CONCRETE DUCT BANK FOR PROTECTION AT DRIVEWAYS, STREETS, PARKING AREAS, OR OTHER LOCATIONS WHERE VEHICULAR USE IS PRESENT.

1 / E-501 PRIMARY POWER DUCTBANK DETAIL

NO SCALE



1. FINISHED GRADE OR SURFACE. REPAIR SURFACES TO MATCH EXISTING.
2. UNDISTURBED EARTH.
3. COMPACTED TO 90% RELATIVE DENSITY. FREE FROM LARGE ROCKS AND DEBRIS. (COMPACTED IN 6" LAYERS).
4. WARNING TAPE.
5. PVC SCHEDULE 40 CONDUIT. NUMBER AND SIZE PER ONE-LINE DIAGRAM. FEEDER RUNS WILL BE GALVANIZED RIGID STEEL (GRS) FOR BENDS AND WHERE THEY ENTER A BUILDING.
6. CONCRETE DUCTBANK.
7. 6" SAND BED.

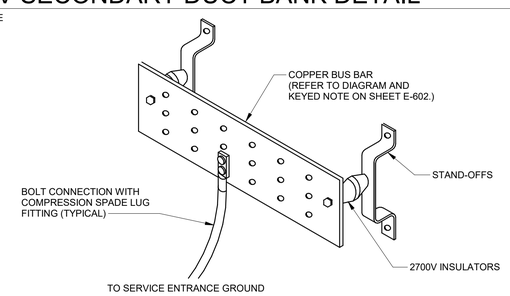
SIMILAR FOR LOCATIONS
WHERE MORE OR LESS CONDUITS ARE REQUIRED

PROVIDE CONCRETE DUCT BANK FOR PROTECTION AT DRIVEWAYS, STREETS, PARKING AREAS, OR OTHER LOCATIONS WHERE VEHICULAR USE IS PRESENT.

NOTE: THIS CONCRETE DETIL WILL BE SIMILAR FOR CONDUITS THAT PASS UNDER FOOTINGS. ENCASEMENT WILL BE 2'-0" LONGER ON EACH SIDE OF FOOTING DIMENSION.

2 / E-501 480V SECONDARY DUCT BANK DETAIL

NO SCALE



3 / E-501 MAIN GROUNDING ELECTRODE BAR DETAIL

NO SCALE

RMKM
ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
As indicated

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL DETAIL SHEET

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-501

BRIDGERS & PAXTON
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JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

NOTE

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IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE LIGHTNING PROTECTION SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO ENSURE THAT THE LIGHTNING PROTECTION SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE LIGHTNING PROTECTION SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE A MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM. NO CHANGE ORDERS WILL BE APPROVED FOR THE BASE SCOPE OF WORK.

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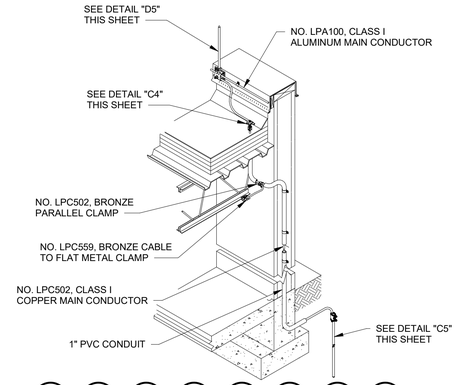
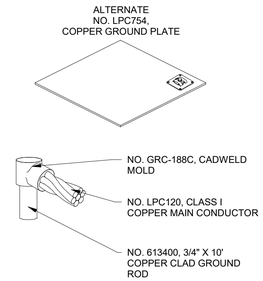
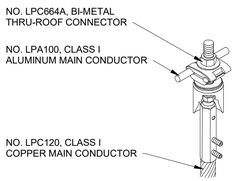


NOTE: INSTALLATION OF DOWNLEAD CABLE WILL VARY AT EACH LOCATION AND EXTERIOR TO BUILDING UNLESS DIRECTED OTHERWISE BY ARCHITECT. REFER TO SHEET "EP131". REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL INFORMATION FOR THE VARIOUS INSTALLATIONS. COORDINATE INSTALLATION PRIOR TO COMMENCEMENT OF ANY WORK.

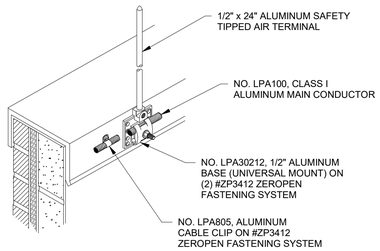
1 / E-502 TYPICAL DOWNLEAD DETAIL
NO SCALE



5 / E-502 CADWELD MOLD - GR
NO SCALE



2 / E-502 THRU-ROOF CONNECTION
NO SCALE



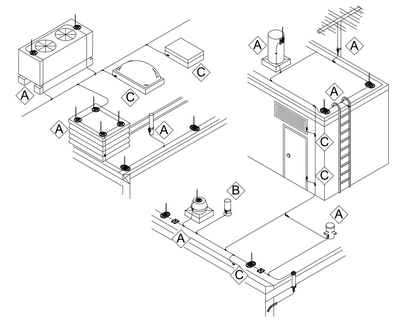
6 / E-502 AIR TERMINAL
NO SCALE

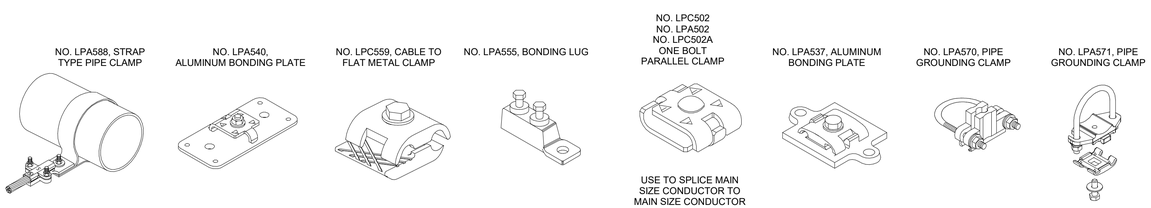
GENERAL SHEET NOTES

A. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, RIDGE ENDS, AND THAT MAX SPACING DOES NOT EXTEND 20'-0" AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10"; POINTS PROJECTING 24" MAY BE SPACED @ 25'-0" MAXIMUM.
B. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR. INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90 DEGREES.
C. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE ROOF APPLICATION PRIOR TO INSTALLATION.
D. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN, BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM THE FOUNDATION WALL. DRIVEN RODS SHALL PENETRATE THE EARTH AT LEAST 10'-0".
E. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODE.
F. INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE.
G. SYSTEM SHALL BE INSTALLED AS SHOWN TO INSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCE SHALL BE RESUBMITTED FOR APPROVAL.
H. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.
I. ALL MATERIALS ARE TO BE UNDERWRITER'S LABORATORIES APPROVED WITH "A" LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND "B" LABELS ON ALL AIR TERMINALS.
J. COMPLETED INSTALLATION AS SHOWN SHALL BEAR U.L. MASTER LABEL "C" TO BE SECURED BY SYSTEM INSTALLER PER UL96A.
K. INSTALLATION SHALL COMPLY IN ALL RESPECTS TO L.P.I. CODE 175. INSTALLATION SHALL BE MADE UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER.
L. REFER TO SPECIFICATION SECTIONS 264112 FOR ADDITIONAL INFORMATION AND APPROVED MANUFACTURERS. ALL MATERIALS SHOWN AND INTENDED FOR USE ARE BY:
   VFC LIGHTNING PROTECTION
   90 NORTH CUTLER DRIVE
   NORTH SALT LAKE, UTAH 84054
   PHONE: (801) 292-2956
   FAX: (801) 292-4164
   EMAIL: cad@vfcinc.com
   INTERNET: www.vfcinc.com
M. COMPLY WITH NFPA 70, 2017 ED. AND NFPA 72 2016 ED.

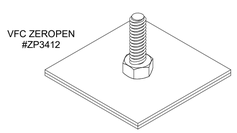
GENERAL BONDING NOTES

A. TYPICAL BODIES OF CONDUCTANCE AS NOTED BELOW. USE FULL SIZE CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
B. (PLUMBING STACK) REQUIRES BONDING WITH MAIN SIZE CABLE ONLY IF WITHIN 6'-0" (1,828mm) OF LIGHTNING PROTECTION SYSTEM.
C. TYPICAL BODIES OF INDUCTANCE AS NOTED BELOW. USE SECONDARY SIZE (SMALLER) CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
D. BONDING CONNECTIONS AND FITTINGS SHOWN ARE TYPICAL EXAMPLES. MAKE ALL CONNECTIONS REQUIRED TO MEET CODES AS NOTED BELOW. ADJUST FITTING TYPE AS REQUIRED TO SUIT FIELD CONDITIONS.





3 / E-502 MISCELLANEOUS
NO SCALE



All fasteners to be VFC ZEROPEN #ZP3412 with appropriate loop supports. No support penetrations shall be made in any sheet metal flashing or roof top equipment. Sheet metal screws shall not be used. Appropriate adhesive supports and construction mastic may be used on Membrane roof surfaces only. Adhesive supports and construction mastic shall not be used on any sheet metal surfaces.

The contractor shall furnish 10 Year Adhesion Warranty on the VFC ZEROPEN fastener system.

NO.	ISSUE	DATE
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1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
As indicated

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL LIGHTNING PROTECTION DETAILS

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-502

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JOHN F. HECK IV
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REGISTERED PROFESSIONAL ENGINEER

COPPER FEEDER SCHEDULE

ALL CONDUCTORS ARE COPPER, TYPE THWN/THHN UNLESS OTHERWISE NOTED.

DESIGNATION	CONDUCTORS	GROUND	CONDUIT	NOTES
THREE PHASE THREE WIRE & GROUND FEEDER				
20Δ	3#12	12	3/4"	
25Δ	3#10	10	3/4"	
30Δ	3#10	10	3/4"	
35Δ	3#8	10	3/4"	
40Δ	3#8	10	3/4"	
45Δ	3#8	10	3/4"	
50Δ	3#8	10	3/4"	
60Δ	3#6	10	1"	
70Δ	3#4	8	1 1/4"	
80Δ	3#4	8	1 1/4"	
90Δ	3#2	8	1 1/4"	
100Δ	3#2	8	1 1/4"	
125Δ	3#1	6	1 1/2"	
150Δ	3#1/0	6	1 1/2"	
175Δ	3#2/0	6	2"	
200Δ	3#3/0	6	2"	
225Δ	3#4/0	4	2 1/2"	
250Δ	3-250 KCMIL	4	3"	
300Δ	3-350 KCMIL	4	3"	
350Δ	3-500 KCMIL	2	4"	
400Δ	3-600 KCMIL	2	4"	
450Δ	(2) 3#4/0	(2) 2	(2) 2 1/2"	
500Δ	(2) 3-250 KCMIL	(2) 2	(2) 3"	
600Δ	(2) 3-350 KCMIL	(2) 1	(2) 3"	
700Δ	(2) 3-500 KCMIL	(2) 1	(2) 4"	
800Δ	(2) 3-600 KCMIL	(2) 1/0	(2) 4"	
1000Δ	(3) 3-400 KCMIL	(3) 2/0	(3) 3"	
1200Δ	(3) 3-600 KCMIL	(3) 3/0	(3) 4"	
1600Δ	(4) 3-600 KCMIL	(4) 4/0	(4) 4"	
2000Δ	(5) 3-600 KCMIL	(5)250 KCMIL	(5) 4"	
2500Δ	(6) 3-600 KCMIL	(6)350 KCMIL	(6) 4"	
3000Δ	(8) 3-500 KCMIL	(8)400 KCMIL	(8) 4"	
4000Δ	(10) 3-600 KCMIL	(10)500 KCMIL	(10) 4"	
THREE PHASE FOUR WIRE & GROUND FEEDER				
20Y	4#12	12	3/4"	
25Y	4#10	10	3/4"	
30Y	4#10	10	3/4"	
35Y	4#8	10	3/4"	
40Y	4#8	10	3/4"	
45Y	4#8	10	3/4"	
50Y	4#8	10	3/4"	
60Y	4#6	10	1"	
70Y	4#4	8	1 1/4"	
80Y	4#4	8	1 1/4"	
90Y	4#2	8	1 1/4"	
100Y	4#2	8	1 1/4"	
125Y	4#1	6	1 1/2"	
150Y	4#1/0	6	2"	
175Y	4#2/0	6	2"	
200Y	4#3/0	6	2"	
225Y	4#4/0	4	2 1/2"	
250Y	4-250 KCMIL	4	3"	
300Y	4-350 KCMIL	4	3"	
350Y	4-500 KCMIL	2	4"	
400Y	4-600 KCMIL	2	4"	
450Y	(2) 4#4/0	(2) 2	(2) 2 1/2"	
500Y	(2) 4-250 KCMIL	(2) 2	(2) 3"	
600Y	(2) 4-350 KCMIL	(2) 1	(2) 3"	
700Y	(2) 4-500 KCMIL	(2) 1	(2) 4"	
800Y	(2) 4-600 KCMIL	(2) 1/0	(2) 4"	
1000Y	(3) 4-400 KCMIL	(3) 2/0	(3) 3"	
1200Y	(3) 4-600 KCMIL	(3) 3/0	(3) 4"	
1600Y	(4) 4-600 KCMIL	(4) 4/0	(4) 4"	
2000Y	(5) 4-600 KCMIL	(5) 250 KCMIL	(5) 4"	
2500Y	(6) 4-600 KCMIL	(6) 350 KCMIL	(6) 4"	
3000Y	(8) 4-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Y	(10) 4-600 KCMIL	(10) 500 KCMIL	(10) 4"	
5000Y	(12) 4-600 KCMIL	(16) 700 KCMIL	(12) 4"	

EQUIPMENT BONDING JUMPER FOR SEPARATELY DERIVED SYSTEMS PER NEC 250.66 (PROVIDE CONDUCTOR GROUND BELOW INSTEAD OF FEEDER GROUND FOR THREE PHASE, 4-WIRE SYSTEMS INDICATED ABOVE)

DESIGNATION	GROUND
20YS THRU 100YS	8
125YS THRU 150YS	6
175YS THRU 200YS	4
225YS THRU 300YS	2
350YS THRU 500YS	1/0
600YS THRU 700YS	2/0
800YS THRU 5000YS	3/0

THREE PHASE FOUR WIRE 200% NEUTRAL & GROUND FEEDER				
100Y-E	3#2, 1#4/0 NEUTRAL	8	2"	
150Y-E	3#2/0, 2#2/0 NEUT.	6	2"	
225Y-E	3-250 KCMIL 2-250 KCMIL NEUT.	4	2 1/2"	
350Y-E	(2) 3#3/0, (2) 2#3/0 NEUT.	(2) 2	(2) 2 1/2"	
400Y-E	(2) 3#4/0, (2) 2#4/0 NEUT.	(2) 2	(2) 2 1/2"	
500Y-E	(2) 3-350 KCMIL, (2) 2-350KCMIL NEUT.	(2) 2	(2) 3"	

5 / E-601 COPPER FEEDER SCHEDULE

NONE

Elec. Service Calc.- Sandoval Co. PSC

Description of Load		Connected KVA	Demand % Multiplier	Demand Load KVA	Service % Multiplier	Service Load KVA	Notes
Lighting Interior		12	100%	12	125%	14	1,2,3
Lighting Exterior		4	100%	4	125%	5	1,3
Receptacle		61	First 10KVA @ 100% Remnder over 10KVA @ 50%	35	100%	35	
Largest Motor		125	125%	156	100%	156	
All other Motors		53	100%	53	100%	53	
Non-continuous loads		28	100%	28	100%	28	
Kitchen Equipment		7	6 and more @ 65%	4	100%	4	
Subtotal of loads KVA		288		291		295	
					Future Capacity 25%	74	
					Total Service load KVA	369	
					Voltage of Service (480-3PH)	0.831	
					Total Service Ampacity	444	

19,525	Sq. Ft.	0.59	watts/sq.ft.	for lighting loads	11,500	VA
19,525	Sq. Ft.	0.19	watts/sq.ft.	for exterior lighting loads =	3,800	VA
19,525	Sq. Ft.	3.11	watts/sq.ft.	for receptacle loads	60,700	VA
19,525	Sq. Ft.	6.39	watts/sq.ft.	for largest mechanical load =	124,700	VA
19,525	Sq. Ft.	2.69	watts/sq.ft.	for other mechanical loads =	52,600	VA
19,525	Sq. Ft.	1.43	watts/sq.ft.	for non-continuous loads =	28,000	VA

NOTES

1. Meets required New Mexico State energy requirements.
2. Occupancy sensors are utilized throughout building for control to meet IECC requirements.
3. A programmable automatic control system is used for energy saving.

1 / 2

NOTE:

1. PER REQUEST OF THE SANDOVAL COUNTY THIS LOAD CALCULATION OF 295kVA WILL BE THE SIZE OF THE GENERATOR AS WELL. THE ENTIRE BUILDING WILL BE ON THE STAND-BY GENERATOR.
2. LIFE SAFETY (EMERGENCY) LIGHTING WILL BE VIA BUG-EYE BATTERY TYPE LUMINAIRES WITH 90 MINUTE USE UNTILL GENERATOR IS FULLY RUNNING AND TO COVER THE PERIOD OF TIME SET FOR FULL GENERATOR FUN CAPACITY.

3 / E-601 ELECTRICAL SERVICE CALCULATION

1/4" = 1'-0"

KNOWN FAULT INFORMATION					SECOND TRANSFORMER IN SYSTEM (DRY-TYPE)						FEEDER/BRANCH CIRCUIT CALCULATION									RESULT
Fault Point	Equipment	Source of Fault	Available Fault Current	Voltage:	PHASE:	XFMR Size (kVA):	Secondary Voltage:	Xfmr Impedence (Ohms):	Xfmr Impedence (user input):	"I" factor	"M" factor	Conductor Type	Conductor Size	3 single conductors?	Conduit Type	Number of sets	Length to fault	"C" value	"I" factor	"M" factor	Available Short Circuit Current at Fault:
F1	MSD	UTILITY	65000	480	3							C	350	Y	S	2	75	19704	0.446	0.692	44956
F2	MSB	MSD	44956	480	3							C	350	Y	S	2	120	19704	0.493	0.670	30103
F3	M1A	MSB	30103	480	3							C	4/0	Y	S	1	15	15082	0.108	0.903	27171
F4	H2A	MSB	30103	480	3							C	4/0	Y	S	1	30	15082	0.216	0.822	24760
F5	PRI-T1A	MSB	30103	480	3							C	3/0	Y	S	1	15	12844	0.127	0.888	26718
F6	SEC-T1A	PRI-T1A	24760	480	3	112.5	208	2.00		3.66	0.215										12263
F7	L1A	SEC-T1A	12263	208	3							C	600	Y	S	1	10	22965	0.044	0.957	11741
F8	PRI-T2A	MSB	27171	480	3							C	3/0	Y	S	1	25	12844	0.191	0.840	22821
F9	SEC-T2A	PRI-T2A	22821	480	3	112.5	208	2.00		3.37	0.229			Y							12043
F10	L2A	SEC-T2A	11741	208	3							C	600	Y	S	1	10	22965	0.043	0.959	11262
F11	ATS	GEN	65000	480	3							C	350	Y	S	2	75	19704	0.446	0.692	44956
F12	RTU-1	MSB	44956	480	3							C	2/0	Y	S	1	40	10755	0.603	0.624	28052

1 / E-601 FAULT CURRENT

1/4" = 1'-0"

Maximum voltage drop for a Branch Circuit shall be less than 3% (NEC 210.19.A. FPN 4).
Maximum voltage drop for a Feeder shall be less than 3% (NEC 215.2. FPN 2).
Maximum combined voltage drop for a Feeder and Breaker shall be less than 5%.

Source: 2017 NEC

Run	Feeder or Branch Circuit Run:	Type of Circuit	Voltage	Phase	Conductor Material	Length (ft)	Size	Load Current (Amps)	Qty Parrallel Runs	Load on feeder	Resistance	Voltage Drop	% Voltage Drop Feeder	% Voltage Drop Branch
1	UTILITY TO MSD	Feeder	480	3	C	75	350	600	2	300	0.037	**1.43**	**0.30%**	
2	MSD TO MSB	Feeder	480	3	C	120	350	600	2	300	0.037	**2.29**	**0.48%**	
3	MSB TO M1A	Feeder	480	3	C	15	4/0	225	1	225	0.061	**0.36**	**0.07%**	
4	MSB TO H2A	Feeder	480	3	C	30	4/0	225	1	225	0.061	**0.71**	**0.15%**	
5	MSB TO T1A	Feeder	480	3	C	15	3/0	200	1	200	0.077	**0.40**	**0.08%**	
6	T1A TO L1A	Feeder	208	3	C	10	600	400	1	400	0.021	**0.15**	**0.07%**	
7	MSB TO T2A	Feeder	480	3	C	30	3/0	200	1	200	0.077	**0.80**	**0.17%**	
8	T2A TO L2A	Feeder	208	3	C	10	600	400	1	400	0.021	**0.15**	**0.07%**	
9	GEN TO ATS	Feeder	480	3	C	75	350	600	2	300	0.037	**1.43**	**0.30%**	
10	MSB TO RTU-1	Feeder	480	3	C	40	2/0	175	1	175	0.097	**1.17**	**0.24%**	

2 / E-601 VOLTAGE DROP

1/4" = 1'-0"

NOTE

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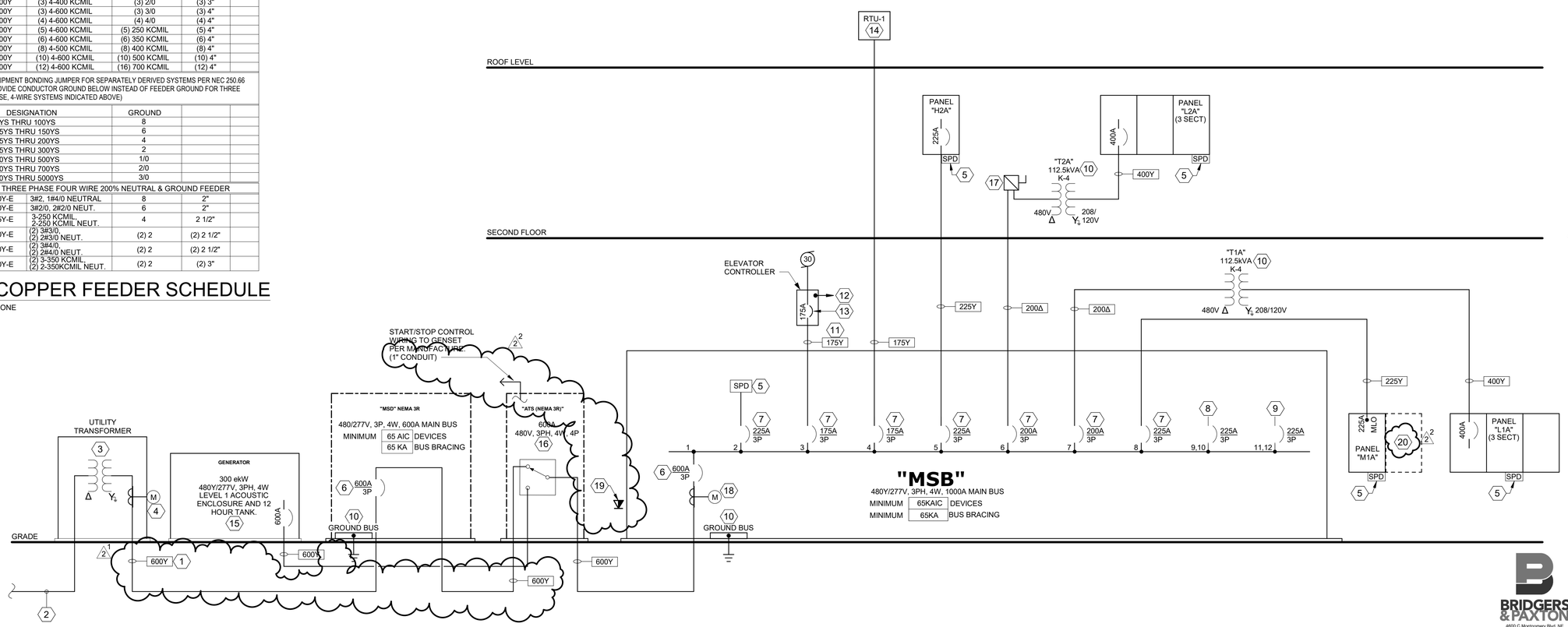

4 / E-601 ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

RMKM ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

A. PANELBOARD AIC RATINGS ARE INDICATED ON THE PANEL SCHEDULES.
B. INFORMATION SHOWN IS DIAGRAMMATIC AND IS NOT INTENDED TO REPRESENT PHYSICAL ARRANGEMENTS, LOCATIONS, ROUTING OR CONNECTIONS. PHYSICAL LAYOUTS ARE TO BE PER FIELD CONDITIONS AND AS INDICATED ELSEWHERE IN THE ELECTRICAL PLANS.
C. REFERENCE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EQUIPMENT AND INSTALLATION. NOT ALL INFORMATION IS SHOWN ON THIS DIAGRAM.
D. ALL PANELS WILL HAVE DOOR-IN-DOOR ACCESSIBILITY FOR EACH PANEL.
E. CONTRACTOR WILL MEASURE AND TORQUE ALL PANEL FEEDERS, MEASURE RESISTANCE TO GROUND AT SERVICE GROUND AND PROVIDE WRITTEN DOCUMENTATION OF TEST RESULTS. CONTRACTOR WILL COORDINATE TIME SO THAT OWNER'S REPRESENTATIVE IS PRESENT DURING TEST.
F. CONTRACTOR WILL LABEL ALL DISTRIBUTION EQUIPMENT PRIOR TO FINAL OBSERVATION WALK THROUGH.
G. WHEN ALL EQUIPMENT IS INSTALLED REQUIRING PROGRAMMING AND TRAINING HAS BEEN COMPLETED, THE BUILDING'S IP ADDRESS WILL NEED TO BE GIVEN TO OWNER'S REPRESENTATIVE FOR ELECTRICAL M&O USE.
H. REFER TO GROUNDING DIAGRAM ON SHEET E-602.

KEYNOTES

1. DO NOT RUN EQUIPMENT GROUND CONDUCTOR IN SERVICE LATERAL.
2. UTILITY UNDERGROUND PRIMARY DISTRIBUTION FROM PNM CONNECTION POINT TO TRANSFORMER. REFER TO SHEET ES101 AND ES102 FOR ADDITIONAL INFORMATION. COORDINATE WITH PNM REPRESENTATIVE AND PNM SERVICE GUIDE FOR CORRECT INSTALLATION.
3. UTILITY PAD MOUNTED TRANSFORMER. CONTRACTOR WILL COORDINATE INSTALLATION OF TRANSFORMER WITH PNM FOR TRANSFORMER SIZE AND CONCRETE PAD REQUIREMENTS. REFERENCE PNM STANDARD INSTALLATION GUIDE AS DIRECTED BY PNM REPRESENTATIVE.
4. METER ENCLOSURE WILL BE MOUNTED AS DIRECTED BY PNM. CONTRACTOR WILL COORDINATE WITH PNM REPRESENTATIVE AND PNM SERVICE GUIDE FOR CORRECT INSTALLATION.
5. SPD MOUNTED EXTERNALLY TO SWITCHBOARD / PANELBOARD. REFERENCE SECTION 264313 FOR ADDITIONAL INFORMATION.
6. SOLID STATE, ELECTRONIC TRIP CIRCUIT BREAKER WITH LONGTIME, SHORT-TIME AND INSTANTANEOUS FUNCTIONS. WITH ADJUSTABLE SETTINGS.
7. MOLDED CASE, THERMAL-MAGNETIC CIRCUIT BREAKERS, AND LOCKABLE.
8. PROVIDE SPARE CIRCUIT BREAKER(S). SIZE AS INDICATED.
9. PROVIDE SPACE FOR ADDITIONAL CIRCUIT BREAKERS. SIZE AS INDICATED.
10. REFER TO SHEET E-602 FOR GROUNDING INFORMATION FOR THIS EQUIPMENT.
11. GROUND CONDUCTOR FOR THIS ELEVATOR FEEDER WILL BE RATED FOR 100% OF THE PHASE CONDUCTORS AND NOT AS CALLED FOR IN FEEDER TAG/SCHEDULE.
12. CONNECT FIRE ALARM AND ELEVATOR RECALL PER ELEVATOR INSTALLER'S RECOMMENDATIONS
13. CIRCUIT BREAKER WITH SHUNT TRIP COIL PROVIDED IN CONTROLLER BY ELEVATOR MANUFACTURER.
14. REFER TO SHEET SERIES "M701" AND "MI" FOR MECHANICAL UNIT INFORMATION. CONTRACTOR WILL HAVE ONE POINT OF ELECTRICAL CONNECTION AT THE LINE SIDE OF THE UNIT PROVIDED VFD.
15. DEISEL GENERATOR. REFER TO SPECIFICATIONS 263613 FOR ADDITIONAL INFORMATION. RATE FOR 5290 FEET ELEVATION.
16. AUTOMATIC TRANSFER SWITCH. REFER TO SPECIFICATIONS 263623 FOR ADDITIONAL INFORMATION. PROVIDE BYPASS ISOLATION FOR AUTOMATIC TRANSFER SWITCH.
17. PROVIDE A 200AF/200F FUSED DISCONNECT SWITCH, NEMA 1, ENCLOSURE.
18. SUB-METERING MOUNTED EXTERNALLY ADJACENT TO PANEL. SCHNEIDER ELECTRIC POWER METER MODEL PM 5000 SERIES. INCLUDE ALL CTS REQUIRED FOR COMPLETE SYSTEM. ALSO INCLUDE ETHERNET OUTLET FOR METERS.
19. PROVIDE DATA OUTLET FOR METER OUTPUT INFORMATION MANAGEMENT SYSTEM. 1" CONDUIT.
20. FUTURE PANEL SECTION.

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
As indicated

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-601

BRIDGERS & PAXTON
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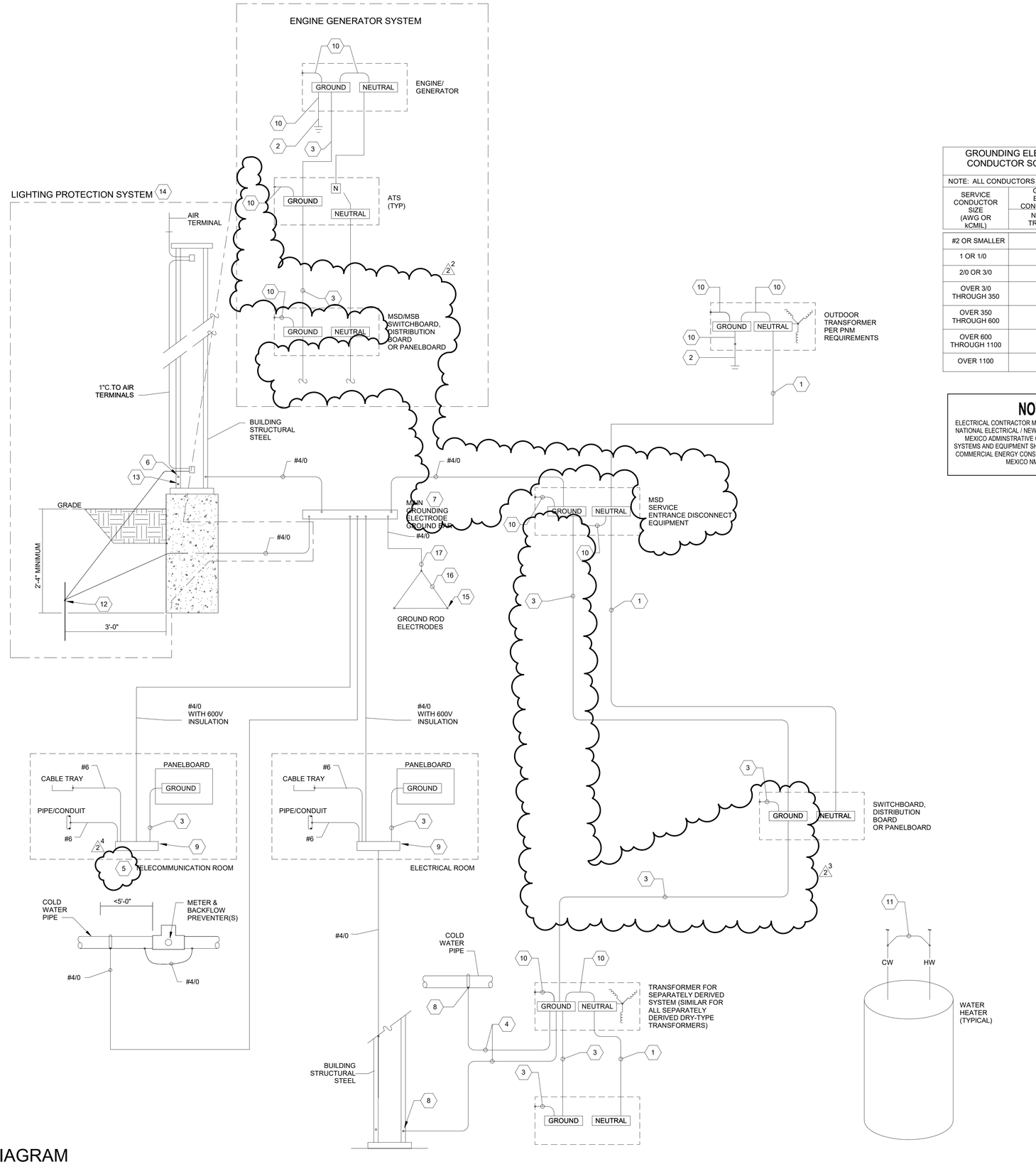
INNOVATIVE | DEPENDABLE | SOLUTIONS

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Bridgers & Paxton Project No: 8131 2/8/2022 8:37:10 AM D:\Revit 2019\Projects\8131_MEP Sandoval County Public Safety_LMMoreno-Chavez.rvt



1 E-602 GROUNDING DIAGRAM
N.T.S.

GROUNDING ELECTRODE CONDUCTOR SCHEDULE	
NOTE: ALL CONDUCTORS ARE COPPER.	
SERVICE CONDUCTOR SIZE (AWG OR kCMIL)	GROUNDING ELECTRODE CONDUCTOR (AWG) NON K-RATED TRANSFORMER
#2 OR SMALLER	8
1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	3/0

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

GENERAL SHEET NOTES

A. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
B. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT GROUND BUS USING NEC TABLE 250.102 (C)(1).
C. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED EQUAL TO EQUIPMENT GROUNDING CONDUCTOR.
D. BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACTORY PROVIDED GREEN SCREW.
E. CLEAN COATED RE-BAR PRIOR TO PERFORMING ELECTRICAL CONNECTIONS.

KEYNOTES

1. REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDED CONDUCTOR SIZE.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD.
3. FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
4. PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF UNGROUNDED SIDE OF THE MAIN TRANSFORMER PER NEC 250.66 AND PER SCHEDULE ON THIS SHEET.
5. REFER TO SHEET T501 AND T502 FOR GROUNDING ADDITIONAL INFORMATION.
6. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE EXOTHERMIC WELDS.
7. PROVIDE A 1/4" X 4" X 12" "MAIN GROUNDING ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION.
8. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVER CURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN SAME ROOM OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
9. INSTALL A 1/4" X 4" COPPER "TELECOMMUNICATIONS GROUNDING BUSBAR" IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE "TELECOMMUNICATIONS GROUNDING BUSBAR" USING COMPRESSION SPADE LUGS. LABEL CONDUCTORS PER ANSI-J-STD-607-A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS.
10. MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON UNGROUNDED CONDUCTOR SIZE AND GROUNDING ELECTRODE CONDUCTOR SCHEDULE ON THIS SHEET UNLESS UNGROUNDED CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1100 KCMIL. IF GREATER THAN 1100 KCMIL SIZE JUMPER PER NEC TABLE 250.102 (C)(1).
11. BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH A #8 BARE COPPER CONDUCTOR.
12. PROVIDE A GROUND ROD. QUANTITY AS REQUIRED BY LIGHTNING PROTECTION DESIGNER.
13. BOND ALL METALLIC PIPING SYTEMS WITHIN STRUCTURE.
14. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM TO PROTECT ENTIRE BUILDING PER SECTION 26 4113.
15. PROVIDE GROUND ROD PER NEC 250.52 A.5. 20'-0" MINIMUM.
16. PROVIDE GROUND RING PER NEC 250.52 A.5. 20'-0" MINIMUM.
17. PROVIDE ROUNGIN ELECTRODE SYSTEM PER LATEST NMEC ADOPTED REQUIREMENTS. 20'-0" MINIMUM.

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7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
N.T.S.

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
GROUNDING DIAGRAM

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-602

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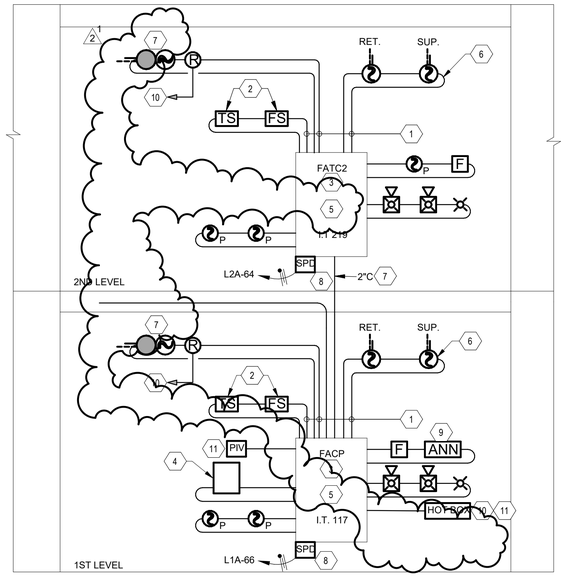

1 E-603 FIRE ALARM RISER DIAGRAM

1/8" = 1'-0"

RMKM ARCHITECTURE, PC

400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

GENERAL SHEET NOTES

A. FIRE ALARM DIAGRAM INDICATES GENERAL DIAGRAMMATIC CONNECTIONS ONLY. ALL CONNECTIONS AND INSTALLATION WILL BE PER FIRE ALARM SYSTEM MANUFACTURER'S SHOP DRAWINGS.
B. DEVICE QUANTITIES ARE NOT INDICATED ON THIS DRAWING. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
C. REFER TO SPECIFICATION SECTION 283111 FOR FIRE ALARM SYSTEM REQUIREMENTS.
D. FIRE ALARM WIRING AND CABLING SHALL BE IN CONFORMANCE WITH NEC AND TYPE SHALL BE AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.
E. SEAL ALL PENETRATIONS THROUGH WALLS, FLOOR, CEILINGS AND ROOF PER ARCHITECTURAL SPECIFIED REQUIREMENTS. SEAL WILL MATCH THE FIRE RATING OF EACH PENETRATION LOCATION.
F. REFER TO SHEET SERIES "FA" FOR ADDITIONAL INFORMATION.

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

ENTIRE FIRE ALARM SYSTEM WILL BE IN RACEWAYS; NO EXCEPTIONS!

KEYNOTES

1. MINIMUM 3/4" CONDUIT AND FIRE ALARM CABLING AS REQUIRED BY THE FIRE ALARM MANUFACTURER.
2. INDEPENDENTLY SUPERVISE EACH FLOW AND TAMPER SWITCH WITH AN ADDRESSABLE MODULE. REFER TO FIRE PROTECTION/ PLUMBING PLANS FOR EACH LOCATION.
3. FIRE ALARM CONTROL PANEL (FACP) OR FIRE ALARM TERMINAL CABINET (FATC) WILL BE FACTORY MANUFACTURED, UL LABELED PANELS. THE CABINET WILL ENCLOSE ALL TERMINATIONS FOR DEVICES ON THE FLOOR OR AREA IT SERVES. INTELLIGENT CARDS AS REQUIRED OR INDEPENDENT OPERATION, POWER SUPPLIES AND STANDBY BATTERIES WILL BE PROVIDED AT EACH LOCATION.
4. ELEVATOR CONNECTION.
5. WHERE POWER SUPPLIES ARE INSTALLED OUTSIDE OF FACP/FATC, CONTRACTOR WILL PROVIDE 120V/20A POWER CIRCUIT TO UNITS FROM NEAREST PANEL. CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH FIRE ALARM INSTALLER AT TIME OF SUBMITTALS TO VERIFY NEED.
6. DUCT SMOKE DETECTOR, FURNISHED BY DIVISION 28, INSTALLED IN DUCT BY DIVISION 23, CONNECTED, WIRED AND TESTED BY DIVISION 28. REFERENCE MECHANICAL CONTROL DIAGRAMS FOR MECHANICAL INTERCONNECTIONS. PROVIDE DUCT DETECTORS IN NEW AND EXISTING UNITS WHERE 2000CFM AND ABOVE EXIST. INSTALL PER CODE.
7. FIRE SMOKE DAMPER, ROUTE 120VAC VIA FIRE ALARM ADDRESSABLE RELAY.
8. PROVIDE SURGE PROTECTION FOR CIRCUIT TO FIRE ALARM PANEL.
9. PROVIDE NEW ANNUNCIATOR PANEL IN MAIN ENTRANCE. FIELD COORDINATE EXACT LOCATION.
10. REFER TO SHEET SERIES "EP" AND "ES" FOR CIRCUITS SERVING THIS SYSTEM.
11. REFER TO ES101 FOR PIV AND/OR HOT BOX QUANTITY AND LOCATION.

NOTE

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NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE
1/8" = 1'-0"

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
FIRE RISER DIAGRAM

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-603

BRIDGERS & PAXTON
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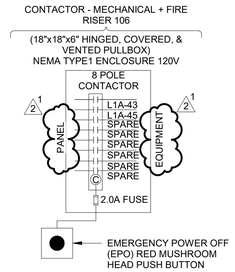
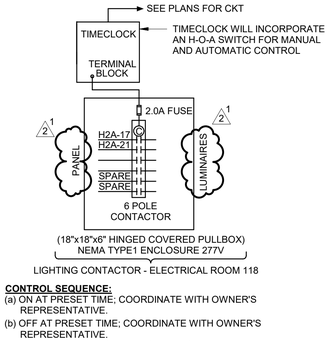


6 / E-604 EPO CONTACTOR DETAIL

NO SCALE

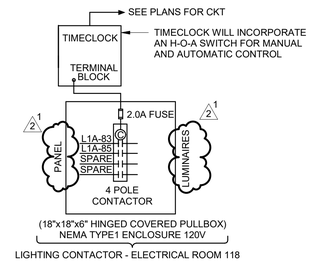


CONTROL SEQUENCE:
(a) ON AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.
(b) OFF AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.

SITE LIGHTING

1 / E-604 LIGHTING CONTACTOR DETAIL SITE 277

NO SCALE



CONTROL SEQUENCE:
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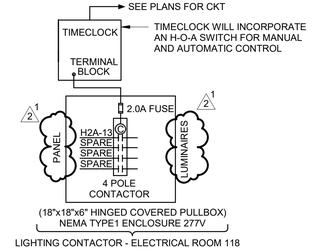
(b) OFF AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.

SITE LIGHTING

2 / E-604 LIGHTING CONTACTOR DETAIL SITE 120V

NO SCALE



CONTROL SEQUENCE:
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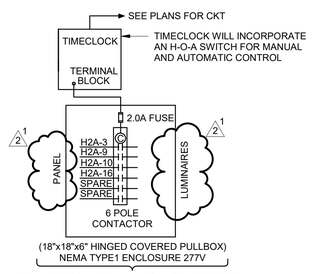
(b) OFF AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.

SITE LIGHTING

3 / E-604 LIGHTING CONTACTOR DETAIL EXTEIOR BUILDING

NO SCALE



CONTROL SEQUENCE:
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(b) OFF AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.

CORRIDORS

4 / E-604 LIGHTING CONTACTOR DETAIL CORRIDORS

NO SCALE

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NOTE

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SHEET TITLE
ELECTRICAL DIAGRAMS

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-604

BRIDGERS & PAXTON
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JOHN F. HECK IV
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NO. 12498
REGISTERED PROFESSIONAL ENGINEER

ELECTRICAL LUMINAIRE SCHEDULE PSC

TYPE	DESCRIPTION	VOLTS	MOUNTING	LAMPS	BALLAST TYPE	EM. BAT. PK.	LENS	MANUFACTURER/MODEL	NOTES
A1RF	1' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	277 OR 120 MULTI-TAP (UNV.)	RECESSED GYP. BOARD	LED, 3500K, 37 MAX WATTS, 3000 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	WHITE ACRYLIC	LITHONIA #BLT4-30L-ADP-EZ1-LP835-DGA14 DAY-BRITE #1FGG-30L-835-4DS-UNV-DIM-FMA14 COLUMBIA #LCAT14-35-VW-G-EDU-FK14 METALUX #14CZ-LD5-35-UNV-L835-CD1-DF-14-W	1,3,4
A2	2' x 2' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	277 OR 120 MULTI-TAP (UNV.)	RECESSED T-BAR	LED, 3500K, 34 MAX WATTS, 3400 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	WHITE ACRYLIC	METALUX #22FP3240C DAY-BRITE #2-FXP-38L-840-2-DS-UNV-DIM CREE #FP22-34L-40K-10V LITHONIA #EPANL 2X2-3400LM-80CRI-40K-MIN10-ZT-MVOLT	1,3,4
A2H	2' x 2' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	277 OR 120 MULTI-TAP (UNV.)	RECESSED T-BAR	LED, 3500K, 50 MAX WATTS, 4500 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	WHITE ACRYLIC	METALUX #22FP4240C DAY-BRITE #2-FXP-45L-840-2-DS-UNV-DIM CREE #FP22-50L-40K-10V LITHONIA #EPANL 2X2-4800LM-80CRI-40K-MIN10-ZT-MVOLT	1,3,4
AD1R	1' x 4' MAXIMUM SECURITY ONE PIECE DIE-FORMED PRIME GRADE MATERIAL. CORNERS CONTINUOUSLY SEAM WELDED AND SMOOTH WITH NO POST GRINDING. CLAMSHELL HOUSING RESISTANT TO PENETRATION AND CONTRABAND CONCEALMENT WITH PRIME-GRADE BASEPLATE.	277 OR 120 MULTI-TAP (UNV.)	RECESSED T-BAR	LED, 3500K, 53 MAX WATTS, 2700 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	PRISMATIC POLYCARBONATE INNER AND CLEAR TEMPERED OUTER	FAIL-SAFE #FSR-SC-X-12-4-LD4-2-LO-35-UNV-81/97-EDD-1-VRSD LCD #GTON4-35-X-C-W-VAR-DM-15/96-TP-SO(53W MAX/2700L DELIVERED) KENALL #RMCA-4-TG-0/0-45L35K-DCC-1-DV-4/C-1-LEL NEW STAR #57-R-14-B/B-L2-35-1C-7/C-UN-DM-EL1-CL(53W MAX/2700L DELIVERED)	1,3,4
B	4' GENERAL PURPOSE LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, WITH DIFFUSING LENS.	277 OR 120 MULTI-TAP (UNV.)	WALL MOUNTED AT 9'-0" AFF OR SURFACE CEILING IF CEILING IS 12'-0" OR LOWER OR STEM MOUNTED SO BOTTOM OF FIXTURE IS AT 10'-0" AFF.	LED, 3500K, 57 MAX WATTS, 4700 MINIMUM DELIVERED LUMENS		NONE	FROSTED ACRYLIC	METALUX #4SNLED-LD5-47SL-LW-UNV-L840-CD1-U DAY-BRITE #FSS-4-55L-840-UNV-DIM COLUMBIA #LCL4-40-ML-EDU LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-40K 80CRI-WH	1,2,3,4
BCN	9" x 4' CORNER MOUNT MINIMUM SECURITY ONE PIECE DIE-FORMED PRIME GRADE MATERIAL. CORNERS CONTINUOUSLY SEAM WELDED AND SMOOTH WITH NO POST GRINDING. CLAMSHELL HOUSING RESISTANT TO PENETRATION AND CONTRABAND CONCEALMENT WITH PRIME-GRADE BASEPLATE. LED NIGHT LIGHT WITH LIGHT LEVEL CONTROL.	277 OR 120 MULTI-TAP (UNV.)	SURFACE CORNER MOUNT	LED, 3500K, 74 MAX WATTS, 5100 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	PRISMATIC POLYCARBONATE INNER AND CLEAR TEMPERED OUTER	FAIL-SAFE #FCC-X-4-LD4-1-HI-35-UNV-81/98-EDD1 LCD #SJ4-35-X-C-W-VAR-DM-15/96-TP-D-SO(50W MAX/3400L DELIVERED) KENALL #CC-4-0/0-45L35K-DCC-1-DV-4/C-1 NEW STAR #55M4-B-L2-35-1-7/C-UN-E1-CL(50W MAX/3400L DELIVERED)	1,2,3,4
BV	4' EXTREME ENVIRONMENT LED HIGH ENERGY EFFICIENT LOW PROFILE ENCLOSED LUMINAIRE. INDOOR /OUTDOOR VANDAL RESISTANT.	277 OR 120 MULTI-TAP (UNV.)	SURFACE CEILING	LED, 3500K, 39 MAX WATTS, 4300 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	POLYCARBONATE LENS	METALUX #4VT2-LD4-4-DR-UNV-L840-CD1-WL-U DAY-BRITE #DWPE-43L-840-4-UNV COLUMBIA #LXEM4-40LW-RFP-EDU LITHONIA #FEM-L48-4000LM-IMAFL-MD-MVOLT-GZ10-40K-80CRI	1,2,3,4
C6	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	277 OR 120 MULTI-TAP (UNV.)	RECESSED CEILING	LED, 3500K, 26 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	FROSTED GLASS LENS	HALO #PD6-15-ED010-PDM6A-835-61V-H LIGHTOLIER #P6RD-15-N-Z10-U-VB-P6R-D-8-35-VB-P6R-D-W SPECTRUM #SGE6LEDOS-20L-35K-DS10-2-BH27-AR6223OS-SG-FG LITHONIA #LDN6-35/15-LO6-AR-277	1,3,4
D1	4' LONG LIFE LED, HIGH ENERGY EFFICIENT WALL MOUNTED LUMINAIRE. SQUARE HOUSING WITH WHITE FINISH.	277 OR 120 MULTI-TAP (UNV.)	WALL MOUNTED SO THAT BOTTOM OF LUMINAIRE IS AT 8'-0" ABOVE LANDING	LED,3500K, 10 MAX W/FT, 400 MINIMUM DELIVERED LUMENS/FT		NONE	WHITE ACRYLIC	CORONET # JNT LIN-2-835-LTG3-UNV-DB-XX-AC/JNT CNCT 120-XX FYI ONLY COMES WITH 120 DEGREE JOINT CONNECTOR PRUDENTIAL LIGHTING#PXL-1B30-940-10-HX-PW-W-04-FINISH-U-DIM BHEX-22-LED35-LO-SAL-XXX-UNV-XXX-XXX-DM01 LUMENWERX #VIA3WD-ARO2-LED-80-X-35-4'-UNV-D1-1-DMB-FINISH	1,2,3,4
E1	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (SINGLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADMIUM EMERGENCY BATTERY PACK.	277 OR 120 MULTI-TAP (UNV.)	SURFACE CEILING OR WALL AT 8'-6"AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	BRUSHED ALUMINUM FACE	SURE-LITES #CX7-1-G EVENLITE #CCDS-EM-G-1-AB DUALLITE #SE-S-G-BNE LITHONIA #LE-S-1-G-ELN	1,2
E2	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (DOUBLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADMIUM EMERGENCY BATTERY PACK.	277 OR 120 MULTI-TAP (UNV.)	SURFACE CEILING OR WALL AT 8'-6"AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	BRUSHED ALUMINUM FACE	SURE-LITES #CX7-1-G EVENLITE #CCDS-EM-G-1-AB DUALLITE #SE-S-G-BNE LITHONIA #LE-S-1-G-ELN	1,2
EM	CONTEMPORARY, LOW PROFILE EMERGENCY BATTERY PACK FIXTURE WITH AN INJECTED MOLDED, HIGH IMPACT, UV STABILIZED THERMOPLASTIC HOUSING, 6 V LEAD CALCIUM BATTERY, ADA COMPLIANT, ADJUSTABLE LAMP SOCKETS, SHORT CIRCUIT AND BROWNOUT PROTECTION.	277 OR 120 MULTI-TAP (UNV.)		(2) TWO LED, 4 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	ACRYLIC FRESNAL	SURELITE #LEM2 EVENLITE #TCL-2-W DUALLITE #EV-2 LITHONIA #ELM2-LED	1,2,3,4
F	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. INTEGRAL PHOTOCELL AND BATTERY BACKUP. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	EXTERIOR WALL SURFACE MOUNT AT 9'-0" AFF.	LED, 4000K, 30 MAX WATTS, 2900 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	IMPACT RESISTANT UV RESISTANT POLYCARBONATE	LUMARK #XTOR6B-W-XX + LVS RTS 0-10 50 (50W - 2900 LUMENS) ECLIPSE LIGHTING #DK-E-M-30W-4K-EBU-XX TRACELITE #WLZ2-4-4K-XX LUMUX #DL300-2-120/277-4000K-XX	1,2,3,4
FE	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. INTEGRAL PHOTOCELL AND BATTERY BACKUP. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	EXTERIOR WALL SURFACE MOUNT AT 9'-0" AFF.	LED, 4000K, 30 MAX WATTS, 2900 MINIMUM DELIVERED LUMENS	LED DRIVER	INTEGRAL UL924 NiCAD BATTERY	IMPACT RESISTANT UV RESISTANT POLYCARBONATE	LUMARK #XTOR6B-W-XX-CBP + LVS RTS 0-10 50 (50W - 2900 LUMENS) ECLIPSE LIGHTING #DK-E-M-30W-4K-EBU-XX-B-REL4W TRACELITE #WLZ2-4-4K-XX-BB LUMUX #DL300-2-120/277-4000K-XX-INTEGRAL EMERGENCY BATTERY	1,2,3,4
FL	IN-GROUND LED WITH 5° TILT OPTICS, AIMABLE WITHOUT OPENING OF FIXTURE	120V	IN-GRADE, POURED CONCRETE	LED, 4000K, 25WATTS, 1700 LUMENS	LED DRIVER	NONE	ANTI-SLIP, CLEAR TEMPERED GLASS	LIGMAN #UKI-60657-25X-2642 LUMENS-T3-W40-120V-A61412 VISTA #1188-XX-XX-40-A ACUITY #M9410C-X-LED-P2-40K-MVOLT-MFL-XX TARGETTI #KPL-41-ZM-L2-40	1,3,4
L2C	EXTRUDED ALUMINUM 8' LONG CURVED HOUSING, INDIRECT 65/DIRECT 35, LED LUMINAIRE WITH HIGHLY REFLECTIVE ALUMINUM AND WHITE PAINTED REFLECTOR. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL REVIEW. FLAT ENDS.	277 OR 120 MULTI-TAP (UNV.)	(T-GRID) STEM MOUNT SO THAT BOTTOM OF LUMINAIRE AT 8'-6" AFF.	LED, 3500K, 93 MAX WATTS, 1000 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER 0-10V DIMMING	NONE	MICRO-PRISM OPTIC SHEILDING OF 0.1" THICK ACRYLIC	CORELITE #I2-WS-3L35-1-D-UNV-XX18-XX-8-STD-DM8-XXES LEDALITE #7705L-B-CAA-8'-7-D-XX-XX-18 LUMENWERX #SMIPSIB-PMO-LED-80-1000-35-35-65-8FT-UNV-D1-1-53WSW18-XX PEERLESS #10CRM4L-LLP-8FT-MSL8-80CRI-SSH-35K-I700LMF-300LMF-MIN1-ZT-277-SCT-F1/18F-XXX-XXX	1,3,4
L3C	EXTRUDED ALUMINUM 12' LONG CURVED HOUSING, INDIRECT 65/DIRECT 35, LED LUMINAIRE WITH HIGHLY REFLECTIVE ALUMINUM AND WHITE PAINTED REFLECTOR. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL REVIEW. FLAT ENDS.	277 OR 120 MULTI-TAP (UNV.)	(T-GRID) STEM MOUNT SO THAT BOTTOM OF LUMINAIRE AT 8'-6" AFF.	LED, 3500K, 139 MAX WATTS, 1000 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER 0-10V DIMMING	NONE	MICRO-PRISM OPTIC SHEILDING OF 0.1" THICK ACRYLIC	CORELITE #I2-WS-3L35-1-D-UNV-XX18-XX-12'-STD-DM8-XXES LEDALITE #7705L-B-CAA-12'-7-D-XX-XX-18 LUMENWERX #SMIPSIB-PMO-LED-80-1000-35-35-65-12FT-UNV-D1-1-53WSW18-XX PEERLESS #10CRM4L-LLP-12FT-MSL12-80CRI-SSH-35K-I700LMF-300LMF-MIN1-ZT-277-SCT-F1/18F-XXX-XXX	1,3,4
NR1	EXTRUDED ALUMINUM 3.5" WIDE x 4'-0" LENGTH DIRECT LINEAR STATIC WHITE LED LUMINAIRE. EXTRA DIFFUSE LENS, COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	RECESSED IN WOOD CEILING	LED, 3500K, 70 MAX WATTS TOTAL, 700 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER	NONE	FROSTED HIGH-IMPACT ACRYLIC (EXTRA DIFFUSE)	NEO-RAY #S123DR-S-775D-835-XXX-4FO-1-U-DD-F MARK #SL4L LOP-4FT-FLP-XX-90CRI-35K-800LMF-XX LUX #EOS 2.0R-XX-ASY-750-4-40K-9-UNV-XX LUMENWERX #VIA2R-D-XXX-FH-XX-XX-HIGH-35-4FT-UNV-TG9-W-XX	1,3,4
NR2	EXTRUDED ALUMINUM 3.5" WIDE x 8'-0" LENGTH DIRECT LINEAR STATIC WHITE LED LUMINAIRE. EXTRA DIFFUSE LENS. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	RECESSED IN WOOD CEILING	LED, 3500K, 70 MAX WATTS TOTAL, 700 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER	NONE	FROSTED HIGH-IMPACT ACRYLIC (EXTRA DIFFUSE)	NEO-RAY #S123DR-S-775D-835-XXX-8FO-1-U-DD-F MARK #SL4L LOP-8FT-FLP-XX-90CRI-35K-800LMF-XX LUX #EOS 2.0R-XX-ASY-750-8-40K-9-UNV-XX LUMENWERX #VIA2R-D-XXX-FH-XX-XX-HIGH-35-8FT-UNV-TG9-W-XX	1,3,4
S3	SINGLE MOUNT ARCHITECTURAL AREA LIGHT. TYPE III OPTICS. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	16'-0" HIGH, 4" DIAMETER ROUND STEEL POLE	LED, 4000K, 115 MAX WATTS, 11,000 MINUMUM DELIVERED LUMENS	LED DRIVER	NONE	CLEAR ACRYLIC	U.S. ARCH LTG #RZRM-PLED-IIIW-48LED-700mA-NW-277-RAL-XXXX-T GARDCO #SFA-48L-700-AR-NW-3-UNV-XX HUBBELL #ASL-A-16L-4K-210-3-U LITHONIA #RSX1 LED-P3-40K-R3-MVOLT-SPA-XXX-XXX	1,3,4
S3D	DUAL MOUNT ARCHITECTURAL AREA LIGHT. TYPE III OPTICS. 16' SQUARE POLE. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. OH DESIGNATE POLES PROVIDE CAMERA MOUNTING BRACKET ADN GROMMET HOLE FOR CABLE PASS THROUGH. REFER TO POLE DETAIL ON "T' SHEETS FOR CAMERA MOUNTING HEIGHT.	277 OR 120 MULTI-TAP (UNV.)	16'-0" HIGH, 4" DIAMETER ROUND STEEL POLE	LED, 4000K, 246 MAX WATTS TOTAL, 11,000 MINUMUM DELIVERED LUMENS PER HEAD	LED DRIVER	NONE	CLEAR ACRYLIC	U.S. ARCH LTG #(2)RZRM-PLED-III-M-48LED-700mA-NW-277 GARDCO #(2)ECF-S-32L-1A-NW-3-UNV HUBBELL #(2)ASL-A-16L-4K-210-3-U LITHONIA #(2)DSX1-LED-P3-40K-T3M-MVOLT-SPA	1,3,4
S4	SINGLE MOUNT ARCHITECTURAL AREA LIGHT. TYPE IV OPTICS. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.OH DESIGNATE POLES PROVIDE CAMERA MOUNTING BRACKET ADN GROMMET HOLE FOR CABLE PASS THROUGH. REFER TO POLE DETAIL ON "T' SHEETS FOR CAMERA MOUNTING HEIGHT.	277 OR 120 MULTI-TAP (UNV.)	16'-0" HIGH, 4" DIAMETER ROUND STEEL POLE	LED, 4000K, 115 MAX WATTS, 11,000 MINUMUM DELIVERED LUMENS	LED DRIVER	NONE	CLEAR ACRYLIC	U.S. ARCH LTG #RZRM-PLED-IV-48LED-700mA-NW-277-RAL-XXXX-T GARDCO #SFA-48L-700-AR-NW-4-UNV-XX HUBBELL #ASL-A-16L-4K-210-4-U LITHONIA #RSX1 LED-P3-40K-R4-MVOLT-SPA-XXX-XXX	1,3,4
SB	LED BOLLARD MOUNT.	120V	42" TOTAL HEIGHT WITH 24" LIT SECTION	LED, 4000K, 15 MAX WATTS	LED DRIVER	NONE	HIGH IMPACT WHITE TRANSLUCENT ACRYLIC	B-K LIGHITNG #CD-SS-LED-E66-A9-XX-X	1,3,4
U3	1.35'X1.37" ADJUSTABLE LINEAR LUMINAIRE WITH SINGLE REMOTE DRIVER CAPABLE OF BEING INSTALLED 105' FROM FIRST LUMINAIRE IN EACH ZONE. WET RATED WHERE INSTALLED OUTDOORS. PROVIDE WITH HINGE MOUNTING.	120V	FLUSH MOUNT. PROVIDE LENGTH AS NEEDED FOR LOCATION OF INSTALL. REFER TO ARCHITECTUAL FOR MOUNTING HEIGHTS AND EXACT LOCATION.	LED, 3500K, 5W/FT, 336 DELIVERED LUMENS/FT	LED DRIVER	NONE	120 DEGREE ASYMETRIC SPREAD LENS	SSL # T-4-D-9-35K-PC-12W ECOSENSE #L35-I-48-XX-35-90-MULT (120-277V)-120 ALLOYLED #AL-11-06-B-3000K-4	1,3,4
WSC	11" ROUND SURFACE ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	277 OR 120 MULTI-TAP (UNV.)	CEILING SURFACE	LED, 4000K, 20 MAX WATTS, 1300 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	FROSTED GLASS LENS	LITON #LCMPD12R-W-T40 JUNO #JSF-13IN-18LM-40K-90CRI-MVOLT ZT-XX COOPER #HALO SMD12R-2000-9S-WH-E ELCO #ELSP12-40-W	1,3,4

RMKM ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

LUMINAIRE SCHEDULE NOTES:

1. MANUFACTURERS CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY.
2. LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUNTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON PLAN DUE TO ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS.
3. ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULED ARE APPROVED FOR BID ON THIS PROJECT. IF A LUMINAIRE IS SUBMITTED THAT IS NOT ON THIS SCHEDULE IT WILL BE REJECTED.
4. SHOULD ANY LUMINAIRE BE NOT AVAILABLE AT TIME OF SUBMITTAL, CONTRACTOR WILL USE ONE OF THE OTHER LUMINAIRES INDICATED IN EACH TYPE FOR REPLACEMENT. NO OTHERS WILL BE ACCEPTED.

NOTE

ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL 2017 NATIONAL ELECTRICAL / NEW MEXICO ELECTRICAL / NEW MEXICO ADMINSTRATIVE CODES AND ELECTRICAL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH THE 2018 COMMERCIAL ENERGY CONSERVATION CODES FOR NEW MEXICO NMAC 14.7.9

NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL LUMINAIRE SCHEDULE

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-701

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
505.883.4111 www.bpce.com
INNOVATIVE | DEPENDABLE | SOLUTIONS

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2/8/2022 8:37:16 AM
Bridgers & Paxton Project No: 8131

LIGHTING SEQUENCE OF OPERATION

A. CONFERENCE/BRIEFING/TRAINING:
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DE-ENERGIZED BY DUAL TECHNOLOGY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSHBUTTON SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A FOUR BUTTON SWITCH WILL PROVIDE THE FOLLOWING CONTROL:
      - TOP BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 50% LUMEN OUTPUT. LABEL BUTTON "A"
      - SECOND BUTTON FROM TOP WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "B".
      - THIRD BUTTON WILL BE PROGRAMMED FOR A/V MODE WITH LUMINAIRES AT FRONT OF ROOM OFF AND BACK OF ROOM REMAINING LUMINAIRES PROGRAMMED TO 50% LUMEN OUTPUT. LABEL BUTTON "C".
      - BOTTOM BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "D".
3. WHEN PERSONNEL LEAVE THE ROOM VACANCY SENSOR(S) WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD AND SYSTEM WILL RESET TO UNOCCUPIED MODE. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD.
4. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD SECURELY ATTACHED TO WALL ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 50% LIGHTING
   B= 100% LIGHTING
   C=A/V MODE
   D=ALL OFF
5. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A . ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. DUAL TECHNOLOGY VACANCY SENSOR LMDC SERIES.
   C. FOUR BUTTON, SINGLE OUTLET DIGITAL WALL SWITCH LMSW SERIES.
6. LIFE SAFETY ILLUMINATION WILL BE PROVIDED VIA BUG-EYE TYPE LUMINAIRES. PROVIDE CONTINOUS HOT FROM SAME CIRCUIT SERVING ROOM.

B. OFFICES-SMALL:
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DE-ENERGIZED BY WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON VACANCY SWITCH AT ENTRY TO ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY A SINGLE DIMMING, ON/OFF SWITCH WILL CONTROL ALL LUMINAIRES IN ROOM:
3. WHEN PERSONNEL LEAVE THE ROOM VACANCY SENSOR(S) WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD AND SYSTEM WILL RESET TO UNOCCUPIED MODE.SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD.
4. PROVIDE DAYLIGHT SENSOR IN ROOM WHERE INDICATED. SENSOR WILL SHUT LIGHTS OFF WHEN 40fc OR MORE ARE RECONGNIZED. DAY LIGHT SENSOR CAN BE OVER RIDDEN BY SWITCH IN ROOM. ONCE ROOM IS VACATED CONTROL WILL GO BACK TO UNOCCUPIED MODE.
5. PROVIDE THE FOLLOWING WATTSTOPPER DLM SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM.
   a. ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMING CONTROL.
   b. SINGLE OUTLET ON/OFF/DIMMER/ VACANCY DIGITAL SWITCH SERIES LMDW.
   c. DAYLIGHT SENSOR FOR WATT STOPPER CONTROL SYSTEM.

C. EVIDENCE WORK AREA
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DE-ENERGIZED BY DUAL TECHNOLOGY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A THREE BUTTON SWITCH WILL BE PROVIDED AT BACK ENTRY DOOR AND PROVIDE:
      - TOP BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 50% LUMEN OUTPUT. LABEL BUTTON "A"
      - SECOND BUTTON FROM TOP WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "B".
      - BOTTOM BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "C".
3. WHEN PERSONNEL LEAVE THE ROOM VACANCY SENSOR(S) WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD AND SYSTEM WILL RESET TO UNOCCUPIED MODE. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD.
4. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD SECURELY ATTACHED TO WALL ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 50% LIGHTING
   B= 100% LIGHTING
   C=ALL OFF
5. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A . ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. DUAL TECHNOLOGY VACANCY SENSOR LMDC SERIES.
   C. THREE BUTTON, SINGLE OUTLET DIGITAL WALL SWITCH LMSW SERIES.

D. KITCHEN/ MINI KITCHEN:
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DE-ENERGIZED BY DUAL TECHNOLOGY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A TWO BUTTON SWITCH WILL PROVIDE THE FOLLOWING CONTROL:
      - TOP BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "A" .
      - BOTTOM BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "B".
3. WHEN PERSONNEL LEAVE THE ROOM VACANCY SENSOR(S) WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD AND SYSTEM WILL RESET TO UNOCCUPIED MODE. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD.
4. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD SECURELY ATTACHED TO WALL ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 100% LIGHTING
   B= OFF
5. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A . ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. DUAL TECHNOLOGY VACANCY SENSOR LMDC SERIES.
   C. TWO BUTTON SWITCH LMSW SERIES.

E. WC/ SHOWER/LARGE STORAGE/WAREHOUSE/ARMORY
1. CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR(S) WILL AUTOMATICALLY TURN ON ALL LUMINAIRES AS SOMEONE ENTERS THE ROOM.
2. LUMINAIRES CAN ALSO BE ENABLED BY A LOCAL SWITCH LOCATED AT ENTRY TO ROOM.
3. WHEN PERSONNEL LEAVE ROOM THEY CAN TURN LIGHTING OFF WITH SWITCH OR THE OCCUPANCY SENSOR(S) IN THE ROOM TIME OUT. ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED.
4. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A. DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR DT-355.
   B. SINGLE BUTTON ON/OFF SWITCH; LINE VOLTAGE RATED FOR LOAD.

F. SMALL STORAGE/JANITORS/ WC:
1. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WILL AUTOMATICALLY TURN ON ALL LUMINAIRES AS SOMEONE ENTERS THE ROOM.
2. LUMINAIRES CAN ALSO BE ENABLED BY SENSOR SWITCH.
3. WHEN PERSONNEL LEAVE ROOM THEY CAN EITHER TURN LIGHTING OFF MANUALLY WITH SENSOR SWITCH OR THE SENSOR WILL TIME OUT AND ALL LIGHTING IN ROOM WILL BE DE-ENERGIZED.
4. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES, OR APPROVED EQUAL IN ROOM:
   A. COMBINATION SENSOR AND ON/OFF SWITCH PW SERIES.

G. ELECTRICAL/ IT/ MECHANICAL/ FIRE RISER:
1. ALL LUMINAIRES IN ROOOM WILL BE ENGAGED BY SWITCH(ES). THESE LUMINAIRES WILL NOT AUTOMATICALLY ENERGIZE OR DE-ENERGIZE.
2. PROVIDE THE FOLLOWING FOR CONTROL:
   A. SINGLE POLE TOGGLE SWITCH.
3. LIFE SAFETY ILLUMINATION WILL BE PROVIDED VIA BUG-EYE TYPE LUMINAIRES PROVIDE CONTINIOUS HOT FROM SAME CIRCUITS SERVING ROOM.

H. EXTERIOR BUILDING LIGHTING
1. ALL EXTERIOR BUILDING MOUNTED, PARKING AREA AND WALKWAY LIGHTING WILL BE PROGRAMMED TO COME ON EITHER BY PHOTO CELL OR ASTRONOMICAL TIME SETTING.
2. AT MINIMUM, ALL LIGHTING WILL COME ON AT OR 1/2 HOUR BEFORE DUSK AND OFF AT OR 1/2 HOUR AFTER DAWN.
3. ALL TIME SETTINGS WILL BE COORDINATED WITH OWNER AT TIME OF PROGRAMMING IN FIELD.

I. BOOKING/ EVIDENCE PREP/HOLDING CELLS:
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL DE-ENERGIZED BY SWITCH IN ROOM 129.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY SWITCH LOCATED IN ROOM 129.
   b. DURING OCCUPANCY, A SINGLE PILOT TOGGLE SWITCH WILL PROVIDE THE CONTROL ON/OFF OF THE HOLDING CELLS, BOOKING, EVIDENCE PREP LUMINAIRES.
3. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD SECURELY ATTACHED TO WALL ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= BOOKING ON/OFF
   B= HOLDING CELL ON/OFF
4. PROVIDE THE FOLLOWING WATT STOPPER DLM DEVICES, OR APPROVED EQUAL IN ROOM:
   A. ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. TWO BUTTON SWITCH LMSN SERIES.

J. CORRIDORS/ VESTIBULES/ LOBBIES/ CIVIL CLERK/STAIRWELL
1. LOCAL OVERRIDE CONTROL OF LUMINAIRES WILL BE VIA PUSH BUTTON SWITCHES.
2. OVERALL CONTOL WILL BE PROGRAMMED THROUGH A TIME CLOCK. ON AT 5AM AND OFF AT 11 PM. COORDINATE EXACT ON/OFF TIMES WITH OWNER IN FIELD AT TIME OF SYSTEM PROGRAMMING.
3. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A . ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. SINGLE BUTTON SWITCH
4. LIFE SAFETY ILLUMINATION WILL BE PROVIDED VIA BUG-EYE TYPE LUMINAIRES. PROVIDE CONTINUOS HOT FROM SAME CIRCUITS SERVING ROOM.

K. OPEN OFFICE
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DE-ENERGIZED BY DUAL TECHNOLOGY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   A. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   B. DURING OCCUPANCY, A TWO BUTTON SWITCH WILL PROVIDE THE FOLLOWING CONTROL:
      - TOP BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "A" .
      - BOTTOM BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "B".
3. WHEN PERSONNEL LEAVE THE ROOM VACANCY SENSOR(S) WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD AND SYSTEM WILL RESET TO UNOCCUPIED MODE. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD.
4. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD SECURELY ATTACHED TO WALL ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 100% LIGHTING
   B= OFF
5. PROVIDE THE FOLLOWING WATT STOPPER DLM DEVICES, OR APPROVED EQUAL, IN ROOM:
   A . ROOM CONTROLLER LMRC SERIES RATED FOR PROGRAMMED CONTROL/POWER.
   B. DUAL TECHNOLOGY VACANCY SENSOR LMOC SERIES.
   C. TWO BUTTON SWITCH LMSW SERIES.

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE NOTES:
A. STARTER/VFD, CONTROL SYSTEM AND DISCONNECTING MEANS FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR VFD OR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700, AND MI SHEET SERIES.
B. RACEWAY SYSTEM AND CONDUCTORS FOR CONTROLS WILL BE PROVIDED BY DIVISION 26 UNLESS SPECIFICALLY CALLED OUT TO BE PROVIDED BY OTHER SECTIONS OF THESE DOCUMENTS. REFER TO SHEET SERIES "MI" FOR CONTROL DIAGRAMS AND ALSO REFER TO SPECIFICATION SECTION 230549.
C. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS OR A MINIMUM OF 1.25% OF UNIT FLA.
D. STARTER, CONTROL SYSTEM FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL PROVIDE DISCONNECTING MEANS AND HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700.
E. CONTRACTOR WILL HAVE DIV 28 PROVIDE DUCT DETECTORS FOR UNIT'S SUPPLY AND RETURN SECTIONS AS REQUIRED BY DIVISION 23. DIVISION 23 WILL INSTALL.

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	BRANCH CIRCUIT CONDUCTOR DESCRIPTION	CONDUIT SIZE	MOTOR STARTER CHRACTERISTICS							DISCONNECT SWITCH CHARACTERISTICS					KEY NOTE
						STARTER TYPE	STARTER SIZE	OFF/AUTO OR HOA	PILOT LIGHT		EXTRA CONTACTS		VOLTS	FRAME AMPS	FUSE SIZE	SOLID NEUT. / GND LUG	NEMA RATING	
									RED	GREEN	NO	NC						
CU-1/FC-1	SPLIT SYSTEM	208 V	1	4#10 & 1#10 GND	3/4"								250 V	30	C	YES	3R/1	B,D
CU-2/FC-2	SPLIT SYSTEM	208 V	1	4#10 & 1#10 GND	3/4"								250 V	30	C	YES	3R/1	B,D
CU-2/FC-2	SPLIT SYSTEM	208 V	1	4#10 & 1#10 GND	3/4"								250 V	30	C	YES	3R/1	B,D
CU-2/FC-2	SPLIT SYSTEM	208 V	1	4#10 & 1#10 GND	3/4"								250 V	30	C	YES	3R/1	B,D
UH-1	UNIT HEATER	208 V	1	3#8 & 1#10 GND	3/4"								250 V	60	C	YES	1	B,D
VFD-1/P-3	PUMP	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	1	A,B
VFD-2/P-4	PUMP	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	1	A,B
G1	GATE ENTRANCE (G1)	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	3R/1	B,D
G2	GATE EXIT (G2)	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	3R/1	B,D
G3	GATE ENTRANCE (G3)	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	3R/1	B,D
G4	GATE EXIT (G4)	480 V	3	4#10 & 1#10 GND	3/4"								600 V	30	C	YES	3R/1	B,D

NOTE
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NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL SCHEDULES

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-702

RMKM ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

BRIDGERS & PAXTON
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JOHN F. HECK IV STATE OF NEW MEXICO NO. 12498 REGISTERED PROFESSIONAL ENGINEER

Branch Panel: H2A

Location: ELEC. 220
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

MINIMUM A.I.C. Rating: 25,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG MECH 106, JAN 110, STOR 111, IT 117, ELECT 118	20 A	1	422 VA	969 VA					1	20 A	LTG OFF 203, 204, 205, 206, 208, RECP 202, UPPER LOBBY 201	2
3	LTG LOBBY 101, WC 107 108 109, STAIR S1 S2, VEST 133	20 A	1			1322 VA	368 VA			1	20 A	LTG CONFERENCE 218	4
5	LTG RECP 119, OFF 120, BRIEF 121, OFF 122, ARM 123, OFF 128-129	20 A	1					1309 VA	1598 VA	1	20 A	LTG OFFICE 229, 230, 231, OPEN OFFICE 232	6
7	LTG INTERVIEW 103, OFF 104, OFF 105, REC STOR 112	20 A	1	506 VA	1329 VA					1	20 A	LTG OPEN OFFICE 213	8
9	LTG LOBBY 101, PUBLIC WC 102A, PUBLIC WC 102B	20 A	1			306 VA	974 VA			1	20 A	LTG UPPER LOBBY/ CORR. 201, INT. RM. 2 209, OFFICE 222B, STO...	10
11	LTG TRAINING ROOM 134, STORAGE 135, WAREHOUSE 136	20 A	1					1570 VA	252 VA	1	20 A	LTG WC 224, 225, 226, 227	12
13	LTG EXTERIOR	20 A	1	786 VA	114 VA					1	20 A	LTG ELECT/ I.T. RMS 2ND FLR	14
15	LTG WEST SITE	20 A	1			2344 VA	350 VA			1	20 A	LTG STAIR S1, STAIR S2	16
17	LTG EVID WORK 126, VAULTS 126 A-D BOOK 130, CELL 131, CELL...	20 A	1					1517 VA	0 VA	1	20 A	SPARE	18
19	LTG EAST SITE	20 A	1	680 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	32
33	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	34
35	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	36
37	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	38
39	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	40
41	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	42
		Total Load:		4806 VA		5664 VA		6246 VA					
		Total Amps:		17 A		21 A		23 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	13422 VA	125.00%	16777 VA		
LTG-EXT	3294 VA	125.00%	4118 VA	**Total Conn. Load:**	16716 VA
				Total Est. Demand:	20894 VA
				Total Conn. Current:	20 A
				Total Est. Demand Current:	25 A

Branch Panel: M1A

Location: ELEC. 118
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

MINIMUM A.I.C. Rating: 35000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes: PROVIDE FEED THROUGH LUGS FOR FUTURE SECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EQP P4 - FIRE RISER 106	20 A	3	1419 VA	2493 VA					3	20 A	EQP P3 - FIRE RISER 106	2
3	--	--	--			1419 VA	2493 VA			--	--		4
5	--	--	--					1419 VA	2493 VA	--	--	--	6
7	MTR OFFICE 105	20 A	1	550 VA	200 VA					1	20 A	MTR TRAINING ROOM 134	8
9	MTR GATE 1 EXIT (G4)	20 A	3			1000 VA	1000 VA			3	20 A	MTR GATE 2 ENTRANCE (G1)	10
11	--	--	--					1000 VA	1000 VA	--	--	--	12
13	--	--	--	1000 VA	1000 VA					--	--	--	14
15	MTR GATE 1 ENTRANCE (G3)	20 A	3			1000 VA	1000 VA			3	20 A	MTR GATE 2 EXIT (G2)	16
17	--	--	--					1000 VA	1000 VA	--	--	--	18
19	--	--	--	1000 VA	1000 VA					--	--	--	20
21	MTR OFFICE 212	20 A	1			450 VA	450 VA			1	20 A	MTR OPEN OFFICE 232	22
23	MTR LOBBY 101	20 A	1					50 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPACE ONLY	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPACE ONLY	20 A	1	0 VA	0 VA					--	--	SPACE ONLY	32
33	SPACE ONLY	20 A	1			0 VA	0 VA			--	--	SPACE ONLY	34
35	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	36
37	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	38
39	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	40
41	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	42
		Total Load:		8663 VA		8813 VA		7963 VA					
		Total Amps:		32 A		32 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	6000 VA	100.00%	6000 VA		
MTR	19438 VA	125.00%	24298 VA	**Total Conn. Load:**	25438 VA
				Total Est. Demand:	30298 VA
				Total Conn. Current:	31 A
				Total Est. Demand Current:	36 A

H2A

M1A

RMKM ARCHITECTURE, PC
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NOTE

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NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-703

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109
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INNOVATIVE | DEPENDABLE | SOLUTIONS

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Branch Panel: L1A

Location: ELEC. 118
Supply From: MSB VIA T1A
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120V
Phases: 3
Wires: 4
Spaces: 126

MINIMUM A.I.C. Rating: 14000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

	CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
SECTION 1	1	NC LOBBY 101 EWC (GFCI BREAKER)	20 A	1	1500 VA	500 VA					1	20 A	NC BRIEFING 121 FLAT PANEL DISPLAY	2
	3	REC LOBBY HALL 101, RECORDS STORAGE 112	20 A	1			720 VA	360 VA			1	20 A	REC BRIEFING 121	4
	5	REC INTERVIEW 103, OFFICE 104, OFFICE 105	20 A	1					900 VA	900 VA	1	20 A	REC BRIEFING 121	6
	7	REC INTERVIEW 103, OFFICE 104, OFFICE 105	20 A	1	900 VA	900 VA					1	20 A	REC BRIEFING 121	8
	9	REC INTERVIEW 103, OFFICE 104, OFFICE 105	20 A	1			720 VA	900 VA			1	20 A	REC LOBBY 101, EQUIP & PROPERTY 125	10
	11	REC PUBLIC WC 102A, 102B, WC SHOWER 107, 108, 109	20 A	1					900 VA	900 VA	1	20 A	REC RECEPTION 119, OFFICE 120	12
	13	MTR IEF-1	20 A	1	528 VA	720 VA					1	20 A	REC RECEPTION 119, OFFICE 120	14
	15	NC LOBBY 101 EWC (GFCI BREAKER)	20 A	1			1000 VA	900 VA			1	20 A	REC OFFICE 122, ARMORY & PROP 123, BOOKING/EVIDENCE 130	16
	17	REC LOBBY 101, STAIR 1 S1, RECEPTION 114	20 A	1					1080 VA	900 VA	1	20 A	REC OFFICE 122, BOOKING/EVIDENCE 130	18
	19	NC LOBBY 101 ADA ACCESS	20 A	1	430 VA	360 VA					1	20 A	REC BOOKING/ EVIDENCE PREP 130	20
	21	REC LOBBY 101, JAN 110, STOR 111, MINI KITCHEN 134, STAIR 2 S2	20 A	1			1080 VA	720 VA			1	20 A	REC OFFICE 128, OFFICE 129	22
	23	NC COPIER RECEPTION 114	20 A	1					1000 VA	900 VA	1	20 A	REC OFFICE 128, OFFICE 129	24
	25	REC RECEPTION 114	20 A	1	360 VA	540 VA					1	20 A	REC EVIDENCE WORK AREA 126	26
	27	REC RECEPTION 114	20 A	1			360 VA	540 VA			1	20 A	REC EVIDENCE WORK AREA 126	28
	29	REC RECEPTION 114	20 A	1					360 VA	720 VA	1	20 A	REC EVIDENCE WORK AREA 126	30
	31	REC RECEPTION 114	20 A	1	360 VA	500 VA					1	20 A	NC EVIDENCE WORK AREA 126 CORD REEL	32
	33	REC WORK STATION RECEPTION 114	20 A	1			540 VA	500 VA			1	20 A	EVIDENCE DRYER	34
	35	REC WORK STATION RECEPTION 114	20 A	1					360 VA	500 VA	1	20 A	EVIDENCE DRYER	36
	37	REC EXTERIOR BUILDING MOUNTED	20 A	1	1080 VA	0 VA					1	20 A	MTR STOR. 111	38
	39	REC EXTERIOR BUILDING MOUNTED	20 A	1			720 VA	0 VA			1	20 A	MTR ELEVATOR ESP-1	40
SECTION 2	41	MTR EQP CP-1 MECHANICAL + FIRE RISER 106	20 A	1					200 VA	180 VA	1	20 A	NC LOBBY 101	42
	43	MTR EQP UH-1 MECHANICAL + FIRE RISER 106	40 A	2	3754 VA	500 VA					1	20 A	KIT MINI KITCHEN 134	44
	45	--	--	--			3754 VA	500 VA			1	20 A	KIT MINI KITCHEN 134 COFFEE MAKER	46
	47	MTR EQP B-1 MECHANICAL + FIRE RISER 106	20 A	1					1440 VA	1000 VA	1	20 A	KIT MINI KITCHEN 134 REFRIGERATOR	48
	49	MTR EQP B-2 MECHANICAL + FIRE RISER 106	20 A	1	1440 VA	500 VA					1	20 A	NC IT 117	50
	51	MTR EQP P-1 MECHANICAL + FIRE RISER 106	20 A	1			864 VA	360 VA			1	20 A	NC IT 117	52
	53	MTR EQP P-2 MECHANICAL + FIRE RISER 106	20 A	1					864 VA	360 VA	1	20 A	NC IT 117	54
	55	REC MECHANICAL + FIRE RISER 106	20 A	1	360 VA	360 VA					1	20 A	NC IT 117	56
	57	REC TRAINING ROOM 134	20 A	1			720 VA	360 VA			1	20 A	NC IT 117	58
	59	REC TRAINING ROOM 134	20 A	1					720 VA	360 VA	1	20 A	NC IT 117	60
	61	REC TRAINING ROOM 134	20 A	1	900 VA	360 VA					1	20 A	NC IT 117	62
	63	REC TRAINING ROOM 134	20 A	1			900 VA	360 VA			1	20 A	NC IT 117	64
	65	REC STORAGE 135, WAREHOUSE 136	20 A	1					720 VA	360 VA	1	20 A	NC IT 117	66
	67	NC PROJECTOR TRAINING ROOM 134	20 A	1	930 VA	500 VA					1	20 A	NC IT 117	68
	69	SITE UTILITY ISLAND	50 A	2			5200 VA	500 VA			1	20 A	NC IT 117	70
	71	--	--	--					5200 VA	500 VA	1	20 A	NC IT 117	72
	73	NC HOT BOX	20 A	1	1500 VA	200 VA					1	20 A	NC IT 117 FIRE ALARM CIRCUIT CONTROL	74
	75	NC HOT BOX	20 A	1			1500 VA	1500 VA			1	20 A	NC CARD READERS FIRST FLOOR	76
	77	REC MECHANICAL + FIRE RISER 106	20 A	1					180 VA	200 VA	1	20 A	NC FMS MECHANICAL + FIRE RISER 106	78
	79	NC HOT BOX	20 A	1	1500 VA	1500 VA					1	20 A	NC BLOCK HEATER	80
	81	NC HOT BOX	20 A	1			1500 VA	1500 VA			1	20 A	NC BATTERY CHARGER	82
	83	LTG FLAG LIGHTS	20 A	1					150 VA	200 VA	1	20 A	NC EQUIP IRRIGATION CONTROLLER	84
	85	LTG BOLLARDS	20 A	1	242 VA	360 VA					1	20 A	REC IT RACK ROOM 104	86
	87	NC GENERATOR ANNUCIATOR 114	20 A	1			200 VA	0 VA			1	20 A	SPARE	88
	89	LTG UPLIGHT ABOVE CLOUD LIGHTING LOBBY 101	20 A	1					220 VA	0 VA	1	20 A	SPARE	90
	91	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	92
	93	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	94
	95	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	96
	97	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	98
	99	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	100
	101	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	102
	103	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	104
	105	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	106
	107	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	108
SECTION 3	109	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	110
	111	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	112
	113	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	114
	115	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	116
	117	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	118
	119	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	120
	121	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	122
	123	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	124
	125	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	126
				Total Load:	23584 VA		28778 VA		22274 VA					
				Total Amps:	198 A		241 A		186 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	150 VA	125.00%	188 VA		
NC	22040 VA	100.00%	22040 VA	**Total Conn. Load:**	74636 VA
CON	2440 VA	125.00%	3050 VA	**Total Est. Demand:**	73995 VA
MTR	23424 VA	125.00%	29280 VA	**Total Conn. Current:**	207 A
REC	24120 VA	70.73%	17060 VA	**Total Est. Demand Current:**	205 A
KIT	2000 VA	90.00%	1800 VA		
LTG	220 VA	125.00%	275 VA		
LTG-EXT	242 VA	125.00%	303 VA		

RMKM ARCHITECTURE, PC
400 Gold Ave SW Studio 1100 Albuquerque, NM 87102 505.243.5454 www.rmkmarch.com

KEYNOTES

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NOTE

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NO.	ISSUE	DATE
2	Addendum No. 2	2/10/2022
1	Construction Set modifications to Permit Set	12/22/2021

PROJECT
SANDOVAL COUNTY SHERIFF'S OFFICE & EMERGENCY OPERATIONS CENTER

7255 OERSTED ROAD NE
BERNALILLO, NM 87004

SCALE

RMKM PROJECT NO.
1904

DRAWN BY
AMH

CHECKED BY
JMM

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

DESIGN PHASE
CONSTRUCTION SET
22 DECEMBER 2021

SHEET NUMBER
E-704

L1A

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109
505.883.4111 www.bpce.com
INNOVATIVE | DEPENDABLE | SOLUTIONS

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER

Branch Panel: L2A

Location: ELEC. 220
Supply From: MSB VIA T2A
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120V
Phases: 3
Wires: 4
Spaces: 126

MINIMUM A.I.C. Rating: 14000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

	CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
SECTION 1	1	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1	500 VA	500 VA					1	20 A	REC FURNITURE ASSEMBLY ARMORY & PROPERTY 123	2
	3	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1			500 VA	500 VA			1	20 A	REC FURNITURE ASSEMBLY ARMORY & PROPERTY 123	4
	5	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1					500 VA	500 VA	1	20 A	REC FURNITURE ASSEMBLY ARMORY & PROPERTY 123	6
	7	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1	500 VA	500 VA					1	20 A	REC FURNITURE ASSEMBLY ARMORY & PROPERTY 123	8
	9	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1			500 VA	900 VA			1	20 A	REC OFFICE 214, OFFICE 215, OFFICE 216	10
	11	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1					500 VA	900 VA	1	20 A	REC OFFICE 214, OFFICE 215, OFFICE 216	12
	13	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1	500 VA	900 VA					1	20 A	REC OFFICE 214, OFFICE 215, OFFICE 216	14
	15	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1			500 VA	500 VA			1	20 A	REC OPEN OFFICE 213	16
	17	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1					500 VA	500 VA	1	20 A	REC OPEN OFFICE 213	18
	19	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1	500 VA	500 VA					1	20 A	REC OPEN OFFICE 213	20
	21	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1			500 VA	900 VA			1	20 A	REC OPEN OFFICE 213	22
	23	REC FURNITURE ASSEMBLY OPEN OFFICE 232	20 A	1					500 VA	1260 VA	1	20 A	REC INT. RM. 2 209, CONTROL RM. 210, INT. RM. 1 211, OFFICE 212	24
	25	REC OPEN OFFICE 232	20 A	1	900 VA	1080 VA					1	20 A	REC INT. RM. 2 209, CONTROL RM. 210, INT. RM. 1 211, OFFICE 212	26
	27	REC STOR. 228, OPEN OFFICE 232	20 A	1			900 VA	900 VA			1	20 A	REC OFFICE 204, OFFICE 205, OFFICE 206	28
	29	REC OFFICE 229, OFFICE 230, OFFICE 231	20 A	1					900 VA	900 VA	1	20 A	REC OFFICE 204, OFFICE 205, OFFICE 206	30
	31	REC OFFICE 229, OFFICE 230, OFFICE 231	20 A	1	900 VA	900 VA					1	20 A	REC OFFICE 203, OFFICE 204, OFFICE 205, OFFICE 206	32
	33	REC OFFICE 229, OFFICE 230, OFFICE 231	20 A	1			900 VA	900 VA			1	20 A	REC OFFICE 203, OFFICE 204, OFFICE 205	34
	35	REC WC 224, WC 225, WC 226, WC 227	20 A	1					720 VA	900 VA	1	20 A	REC RECEPTION 202, OFFICE 203, OFFICE 208	36
	37	REC COPIER COPY FAX 223	20 A	1	180 VA	900 VA					1	20 A	REC RECEPTION 202, OFFICE 208	38
	39	REC COPIER COPY FAX 223	20 A	1			180 VA	1080 VA			1	20 A	REC UPPER LOBBY 201, CORRIDORS	40
	41	REC UPPER LOBBY 201	20 A	1					1080 VA	720 VA	1	20 A	REC CONF. 218, STOR 221	42
	43	NC UPPER LOBBY 201 EWC	20 A	1	500 VA	540 VA					1	20 A	REC CONF. 218	44
	45	KIT BREAKROOM OVEN 201	20 A	3			500 VA	500 VA			1	20 A	NC I.T. 219	46
	47	--	--	--					500 VA	500 VA	1	20 A	NC I.T. 219	48
	49	--	--	--	500 VA	500 VA					1	20 A	NC I.T. 219	50
	51	REC BREAKROOM 201	20 A	1			540 VA	500 VA			1	20 A	NC I.T. 219	52
	53	REC BREAKROOM 201	20 A	1					540 VA	500 VA	1	20 A	NC I.T. 219	54
	55	KIT BREAKROOM DISHWASHER	20 A	1	500 VA	500 VA					1	20 A	NC I.T. 219	56
	57	KIT BREAKROOM 201 DISPOSAL	20 A	1			500 VA	500 VA			1	20 A	NC I.T. 219	58
SECTION 2	59	KIT BREAKROOM 201 COFFEE MAKER	20 A	1					500 VA	500 VA	1	20 A	NC I.T. 219	60
	61	KIT BREAKROOM 201 MICROWAVE	20 A	1	1000 VA	500 VA					1	20 A	NC I.T. 219	62
	63	KIT BREAKROOM 201 REFRIGERATOR	20 A	1			1000 VA	200 VA			1	20 A	NC I.T. 219 FIRE ALARM CIRCUIT CONTROL	64
	65	KIT BREAKROOM 201 REFRIGERATOR	20 A	1					1000 VA	500 VA	1	20 A	NC I.T. 219	66
	67	MTR HOOD BREAKROOM 201	20 A	1	180 VA	500 VA					1	20 A	NC I.T. 219	68
	69	NC ELEC. 220 TIMECLOCK SITE LIGHTING	20 A	1			200 VA	500 VA			1	20 A	NC I.T. 219	70
	71	NC ELEC. 220 TIMECLOCK EXTERIOR BUILDING LIGHTING	20 A	1					200 VA	1690 VA	2	20 A	MTR CU-1/FC-1 (ROOF) (IT 117)	72
	73	NC ELEC. 220 TIMECLOCK BOLLARDS	20 A	1	200 VA	1690 VA					--	--	--	74
	75	NC ELEC. 220 TIMECLOCK CORRIDORS	20 A	1			200 VA	1690 VA			2	20 A	MTR CU-2/FC-2 (ROOF) (ELECT 118)	76
	77	REC IT RACK, ROOM 210	20 A	1					360 VA	1690 VA	--	--	--	78
	79	NC TV CONF. 218	20 A	1	500 VA	1690 VA					2	20 A	MTR CU-3/FC-3 (ROOF) (IT 219)	80
	81	REC FLOOR BOX ROOM 218	20 A	1			360 VA	1690 VA			--	--	--	82
	83	REC FLOOR BOX ROOM 218	20 A	1					360 VA	1690 VA	2	20 A	MTR CU-4/FC-4 (ROOF) (ELECT 220)	84
	85	REC FLOOR BOX ROOM 232	20 A	1	360 VA	1690 VA					--	--	--	86
	87	REC FLOOR BOX ROOM 232	20 A	1			360 VA	360 VA			1	20 A	REC ROOFTOP	88
	89	REC FLOOR BOX ROOM 232	20 A	1					360 VA	180 VA	1	20 A	REC ON RTU-1 (ROOF)	90
	91	SPARE	20 A	1	0 VA	1476 VA					1	20 A	MTR EF-1 (ROOF)	92
	93	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	94
	95	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	96
	97	SPARE	20 A	1	0 VA	0 VA					--	--	SPACE ONLY	98
	99	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	100
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	103	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	104
SECTION 3	105	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	106
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	111	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	112
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	115	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	116
	117	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	118
	119	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	120
	121	SPACE ONLY	--	--	0 VA	0 VA					--	--	SPACE ONLY	122
	123	SPACE ONLY	--	--			0 VA	0 VA			--	--	SPACE ONLY	124
	125	SPACE ONLY	--	--					0 VA	0 VA	--	--	SPACE ONLY	126
			Total Load:		21786 VA		19260 VA		21450 VA					
			Total Amps:		184 A		161 A		182 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	8000 VA	100.00%	8000 VA		
MTR	14876 VA	125.00%	18595 VA	**Total Conn. Load:**	62496 VA
REC	33620 VA	64.87%	21810 VA	**Total Est. Demand:**	52305 VA
KIT	6000 VA	65.00%	3900 VA	**Total Conn. Current:**	173 A
				Total Est. Demand Current:	145 A

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