

San Juan County Generator Projects 2021

Owner Bid #21-22-04

EDA Award Number: 08-79-05465

Owner

San Juan County Parks & Facilities Department
100 South Oliver Drive
Aztec, NM 87401

Mike Stark, County Manager
(505) 334-4271

Steve Damsie, Deputy Parks and Facilities Director
(505) 324-5569

Owner Contact

San Juan County
100 South Oliver Drive
Aztec, NM 87401

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MEP Engineer

ME & E Engineering
463 Turner Drive, Suite 104A
Durango, CO 81303

Dustin Sullivan, Mechanical Engineer
(970) 385-1570

Sean Brophy, Electrical Engineer
(970) 385-1570

SHEET LIST

Sheet Number	Sheet Name
G001	PROJECT INFORMATION
P100A	PLUMBING SITE UTILITIES PLAN - SHERIFF'S OFFICE
EL102A	ELECTRICAL LIGHTING PLAN-2ND FLOOR - SHERIFF OFFICE
EP101A	ELECTRICAL POWER PLAN - 1ST FLOOR - SHERIFF'S OFFICE
EP102A	ELECTRICAL POWER PLAN - 2ND FLOOR - SHERIFF'S OFFICE
ES01A	ONE-LINE AND PANEL SCHEDULES - SHERIFF'S OFFICE
ES01A	ELECTRICAL LEGEND, NOTES, AND DETAILS - SHERIFF'S OFFICE
ET01B	ELECTRICAL PLAN - CONVENTION CENTER
ES01B	ELECTRICAL RISER DIAGRAM - CONVENTION CENTER

Bid Lot B

McGee Park Convention Center

41 Rd 5568, Farmington, NM 87401



CODE ANALYSIS	
APPLICABLE CODES	NMIBC - 2015 NEW MEXICO EXISTING BUILDING CODE NMIMC - 2017 NEW MEXICO MECHANICAL CODE (UMC) NMPC - 2015 NEW MEXICO PLUMBING CODE (UPC) NEC - 2017 NATIONAL ELECTRICAL CODE (NEC) NMECC - 2018 NEW MEXICO ENERGY CONSERVATION CODE
SCOPE DESCRIPTION	NMIBC 503.1 LEVEL 1 ALTERATION MODIFICATION OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM TO ADD AN EMERGENCY GENERATOR. THE GENERATOR WILL SERVE THE EXISTING MAIN DISTRIBUTION PANEL PROTECTING LOADS CRITICAL TO THE FACILITIES USE. THE GENERATOR WILL BE DIESEL FIRED.

Bid Lot A

Sheriff's Office

211 South Oliver Dr, Aztec, NM 87410



CODE ANALYSIS	
APPLICABLE CODES	NMIBC - 2015 NEW MEXICO EXISTING BUILDING CODE NMIMC - 2017 NEW MEXICO MECHANICAL CODE (UMC) NMPC - 2015 NEW MEXICO PLUMBING CODE (UPC) NEC - 2017 NATIONAL ELECTRICAL CODE (NEC) NMECC - 2018 NEW MEXICO ENERGY CONSERVATION CODE
SCOPE DESCRIPTION	NMIBC 503.1 LEVEL 1 ALTERATION - REPLACEMENT OF EXISTING ELEMENTS AND EQUIPMENT THAT SERVE THE SAME PURPOSE. MODIFICATION OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM TO ADD AN EMERGENCY GENERATOR. THE GENERATOR WILL SERVE AN EXISTING PANEL PROTECTING LOADS CRITICAL TO THE FACILITIES USE. THE GENERATOR WILL ALSO SERVE TO KEEP A SMALL AREA OPERATIONAL DURING A POWER OUTAGE, INCLUDING RECEPTACLE LOADS, LIGHTING, AND EGRESS LIGHTING. THE GENERATOR WILL BE NATURAL GAS FIRED.

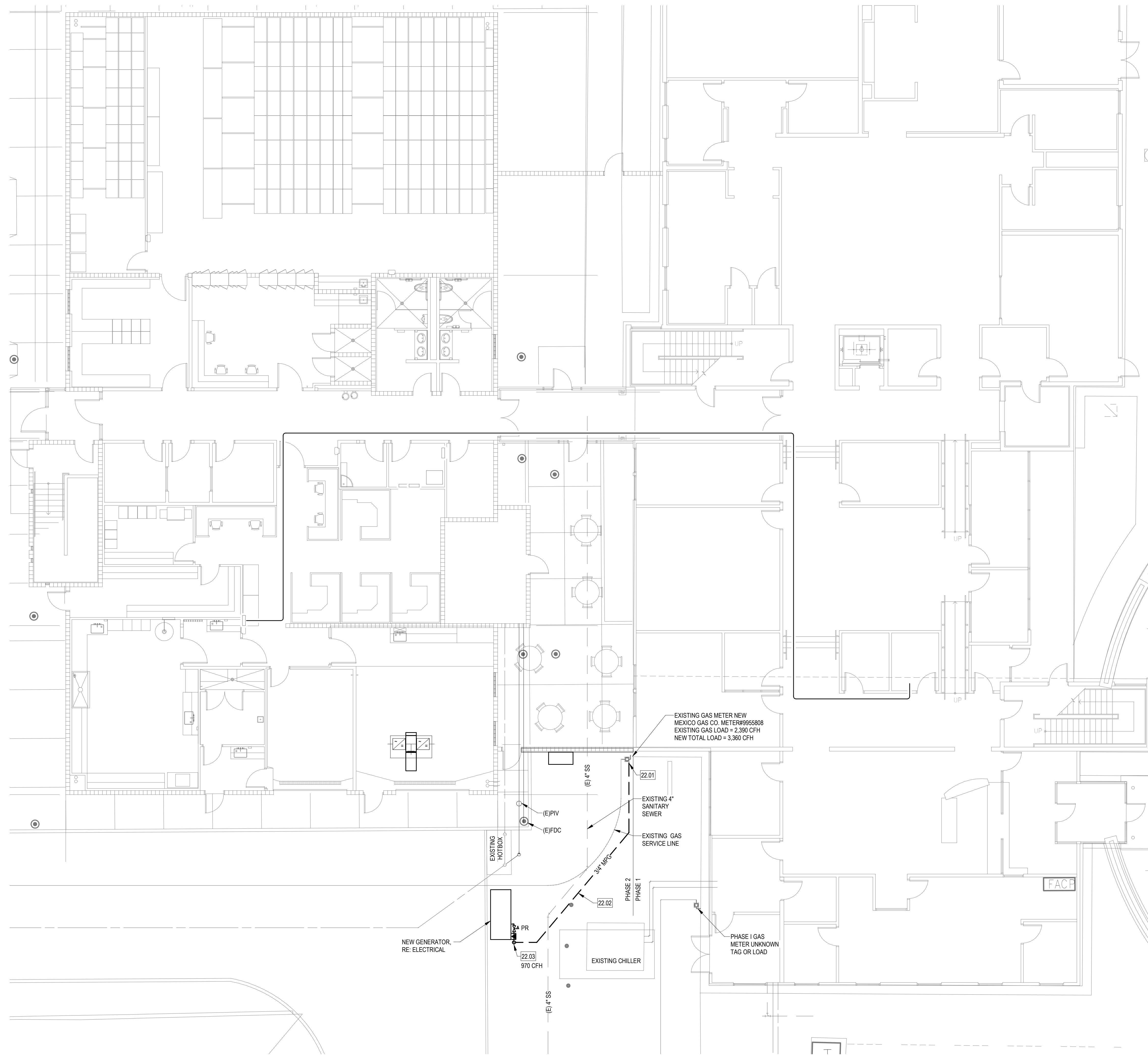
SAN JUAN COUNTY GENERATOR PROJECTS 2021
 OWNER BID #21-22-04
 BID LOT A - SHERIFF'S OFFICE
 211 S Oliver Drive
 Aztec, NM 87410

REVISIONS	DATE	NAME
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PROJECT NO.: 1921
 DATE: 07/07/21
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SHEET TITLE:
G001

PROJECT INFORMATION

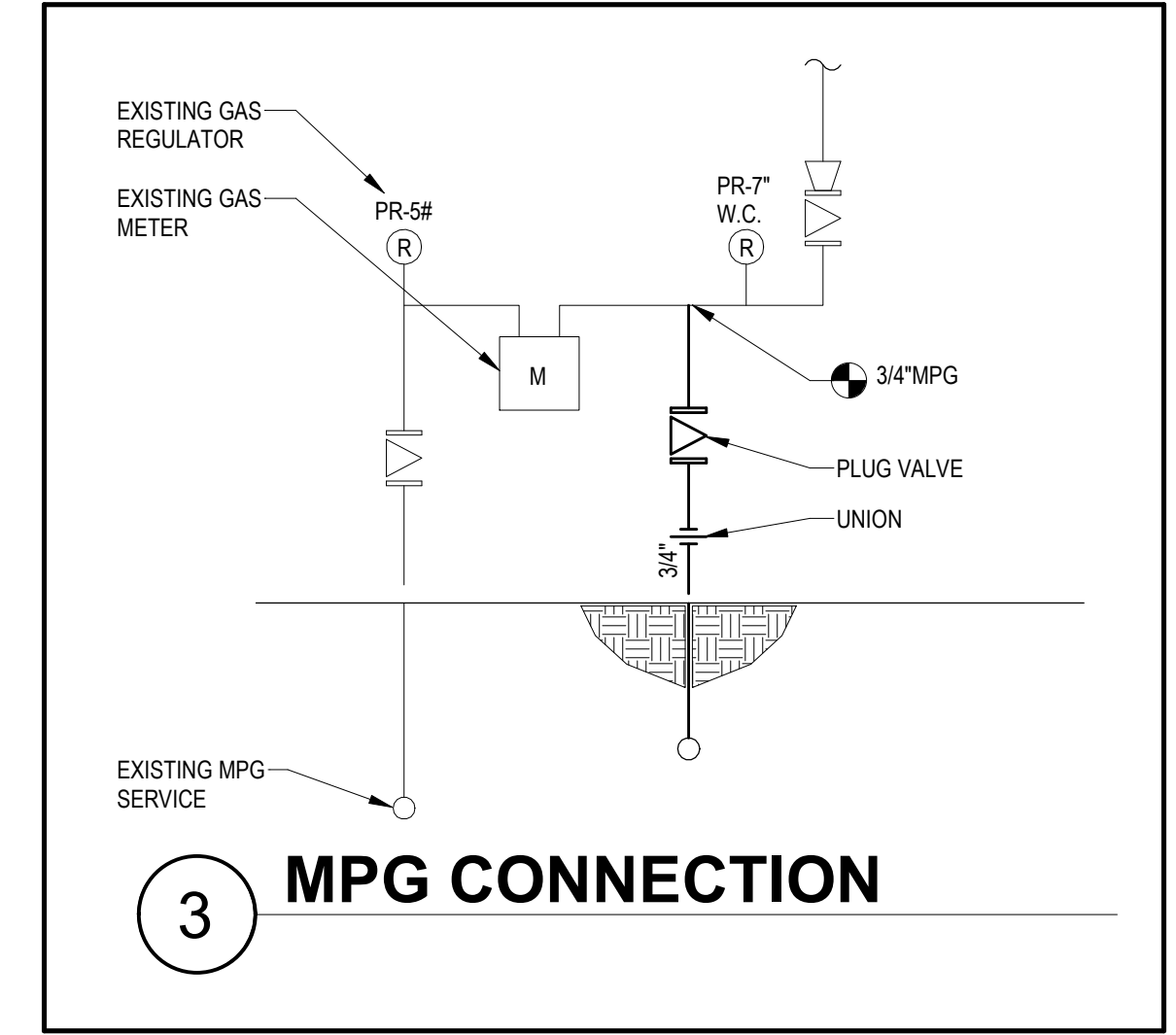
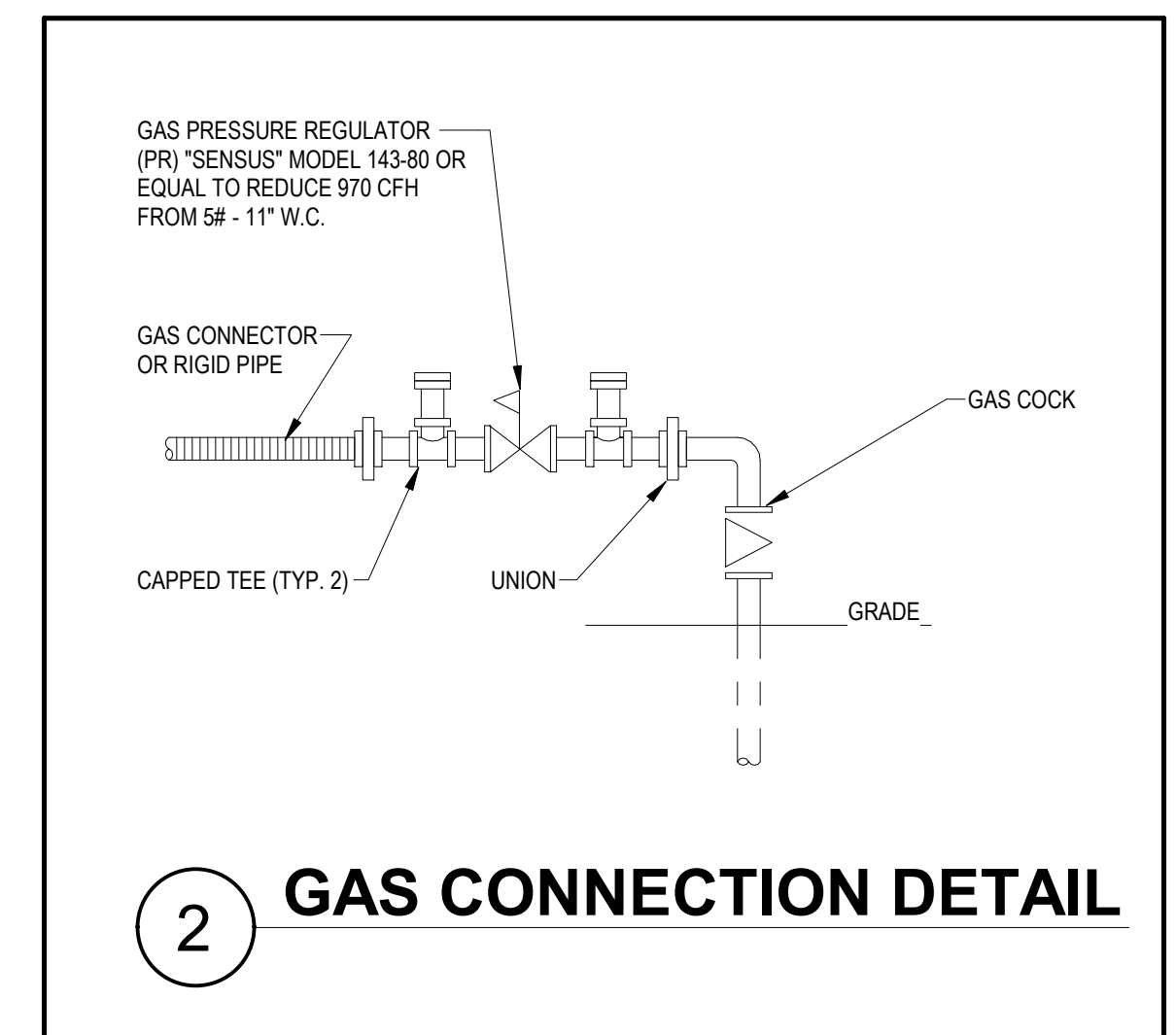


1 GAS SITE PLAN
1/8" = 1'-0"

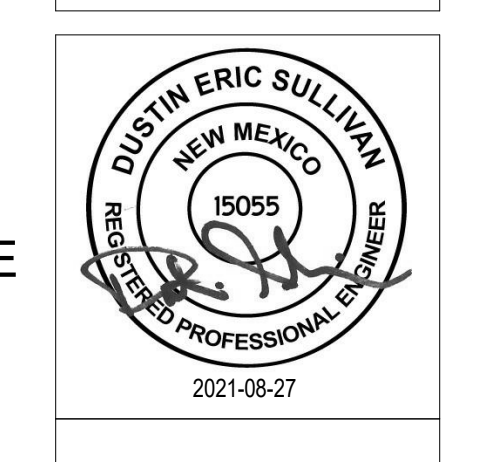
KEYED NOTES	
22.01	MAKE NEW 3/4"MPG CONNECTION BETWEEN GAS METER AND HOUSE REGULATOR.
22.02	3/4"MPG BELOW GRADE. FIELD VERIFY EXACT ROUTING.
22.03	3/4"MPG RISE FROM BELOW GRADE TO PRESSURE REGULATOR, 970 CFH AT 7"W.C. PRECEDED BY PLUG VALVE. SEE GAS CONNECTION DETAIL.

PLUMBING SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	UNIT DESIGNATION
	KEYED NOTE
	POINT OF CONNECTION
	NATURAL GAS (G)
	EXISTING SANITARY SEWER (SS)
	GAS COCK

NOTE: SYMBOLS ILLUSTRATED ABOVE MAY NOT APPEAR ON THE PLANS



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4653 Turner Drive, Suite 104A
Durango, CO 81303
970-365-1570



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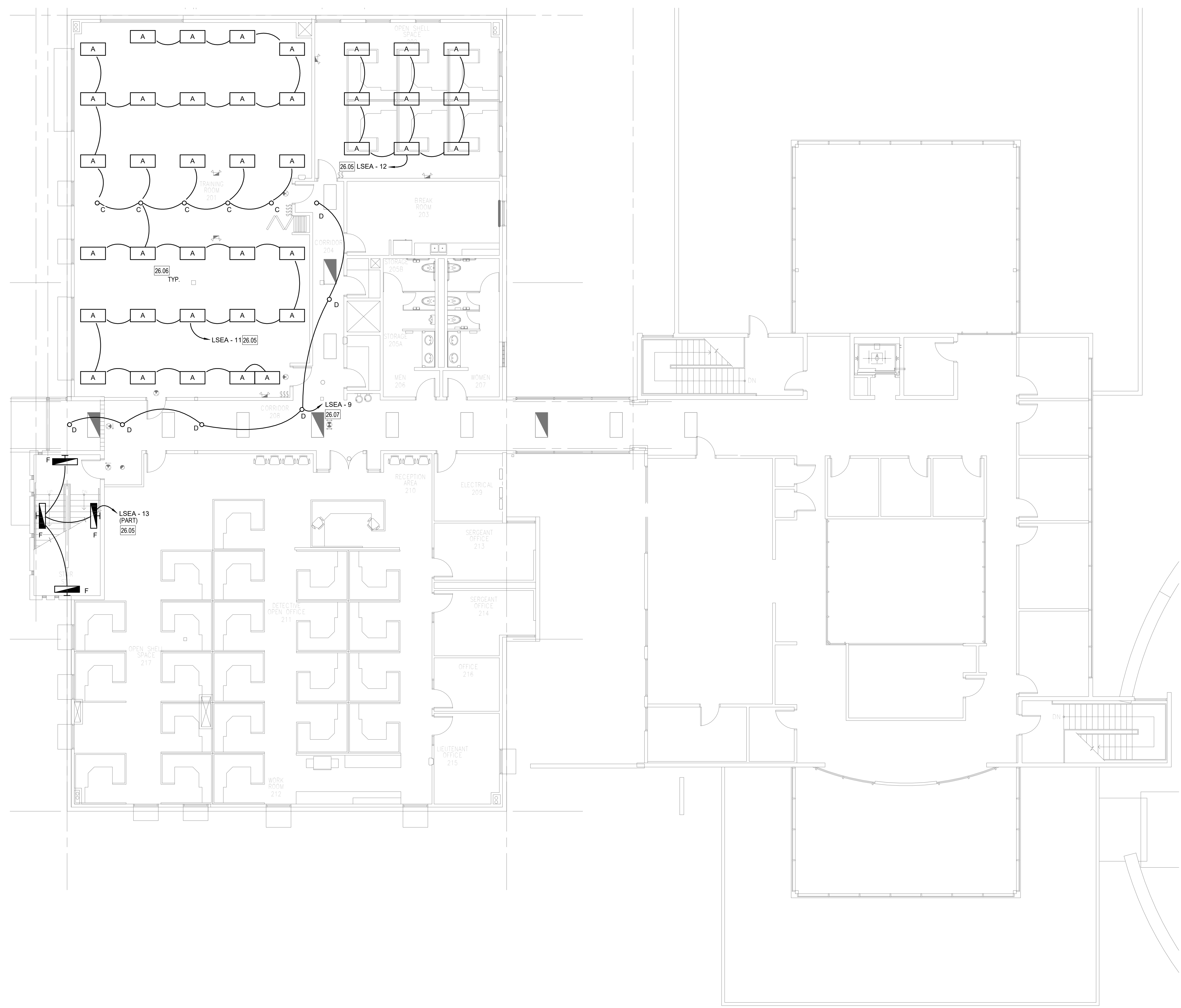
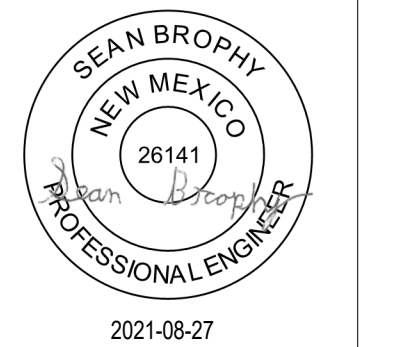
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SHEET TITLE:
P100A

PLUMBING SITE UTILITIES PLAN - SHERIFF'S OFFICE

KEYED NOTES	
26.05	REMOVE EXISTING LIGHT FIXTURES AND REPLACE WITH NEW LIGHT FIXTURE IN EXISTING SPACE. WHEN POSSIBLE, REUSE EXISTING FEEDER AND PATHWAYS TO CIRCUIT LIGHTS.
26.06	FOR LIGHTING CONTROL CONNECT LIGHTS IN THIS ROOM TO THE ROOM CONTROLLER. MATCH EXISTING ROOM CONTROL SEQUENCE.
26.07	LIGHTS ON THIS CIRCUIT TO BE TURNED ON ONLY IF GENERATOR IS RUNNING.

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1 ELECTRICAL LIGHTING PLAN - 2ND FLOOR

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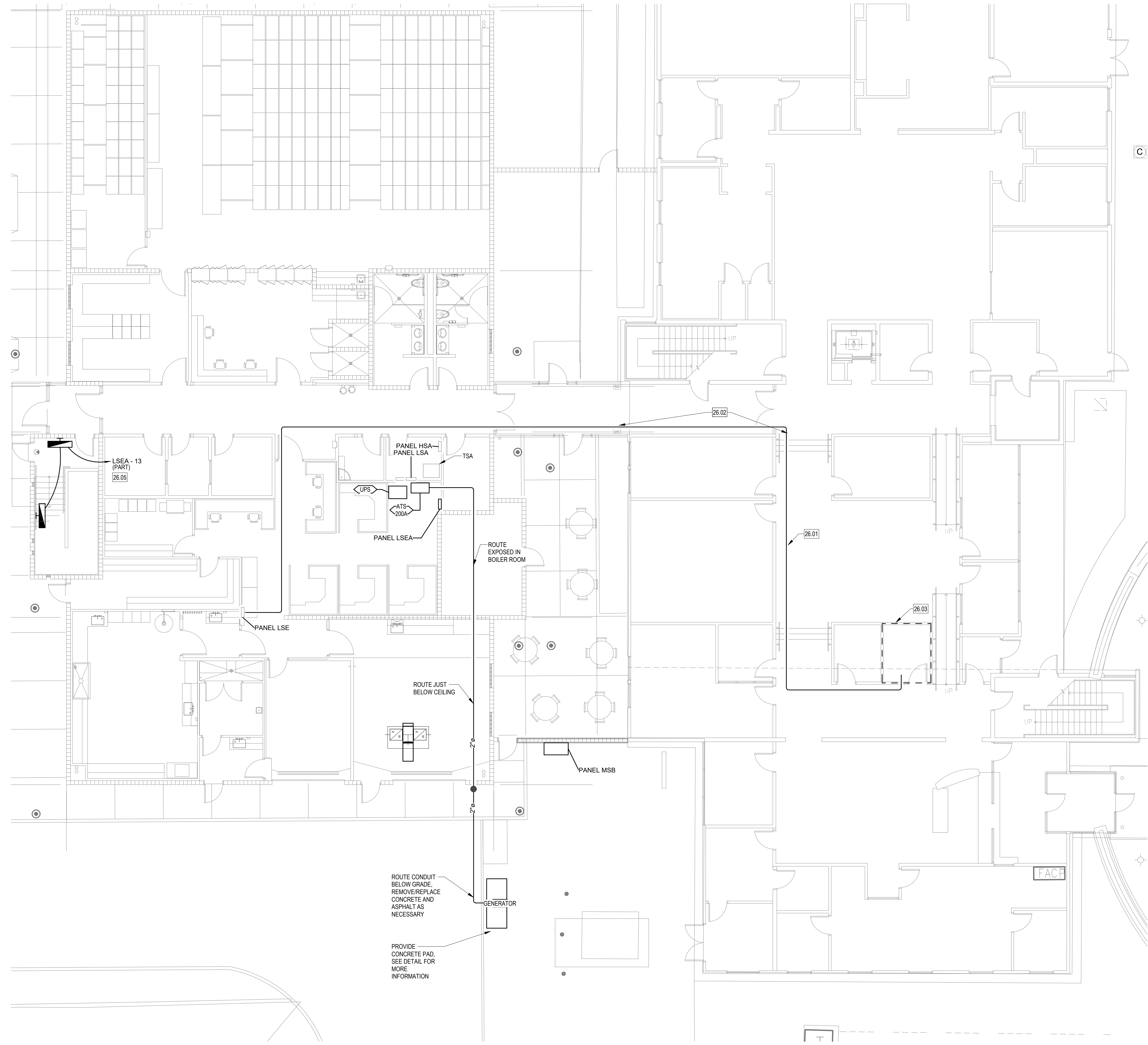
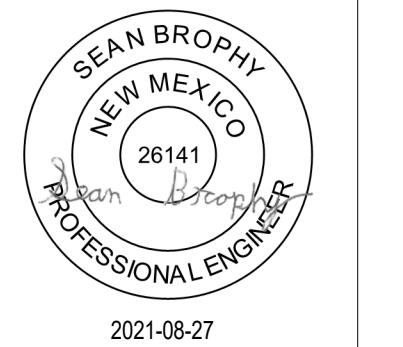
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SHEET TITLE:
EL102A

ELECTRICAL LIGHTING PLAN-2ND FLOOR - SHERIFF OFFICE

KEYED NOTES	
26.01	APPROXIMATE ROUTING FOR NEW CONDUIT PATHWAY BETWEEN IT ROOM AND PANEL L5E. CONFIRM FINAL ROUTING WITH OWNER PRIOR TO ROUGH-IN.
26.02	THIS PORTION OF CEILING IS GYPSUM. ENGINEER ANTICIPATES THAT MC CABLE CAN BE FED ABOVE THE GYPSUM. IF FIELD CONDITIONS DO NOT ALLOW FEEDING MC CABLE ABOVE CORRIDOR GYPSUM CEILING, SUBMIT RFI FOR CLARIFICATION.
26.03	TRACE ALL RECEPTACLE CIRCUITS AND IT RACKS IN THIS ROOM BACK TO PANEL LP-Z. REMOVE CONDUIT AND FEEDER BACK TO PANEL LP-Z. UPDATE PANEL SCHEDULE AND TURN OFF SPARE BREAKERS. RECIRCUIT RECEPTACLES AND IT RACKS TO PANEL L5E.
26.05	REMOVE EXISTING LIGHT FIXTURES AND REPLACE WITH NEW LIGHT FIXTURE IN EXISTING SPACE. WHEN POSSIBLE, REUSE EXISTING FEEDER AND PATHWAYS TO CIRCUIT LIGHTS.

ME&E ENGINEERING
 4653 Turner Drive, Suite 104A
 Phoenix, AZ 85033
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1 **ELECTRICAL POWER AND LIGHTING PLAN - 1ST FLOOR**
 1/8" = 1'-0"

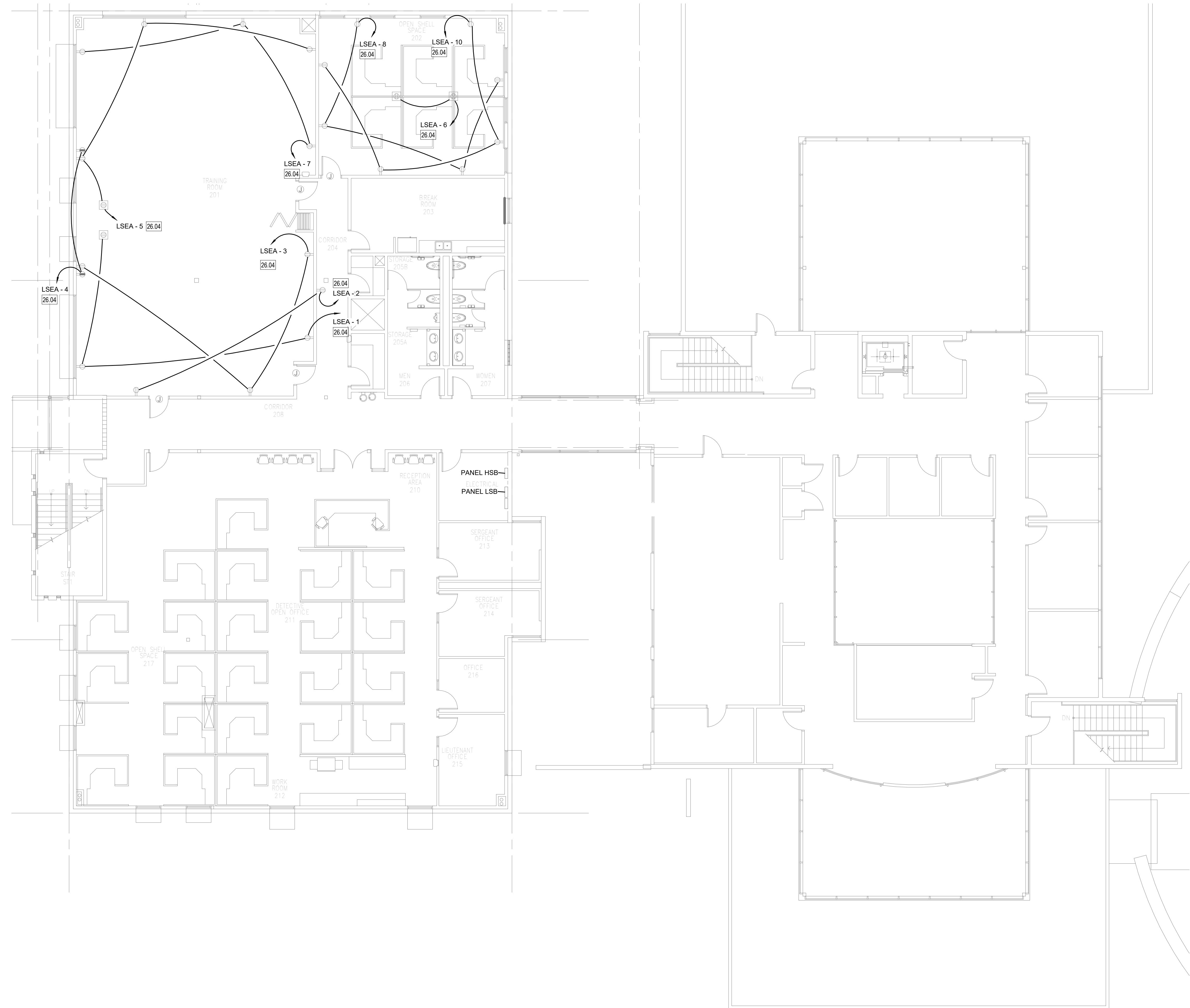
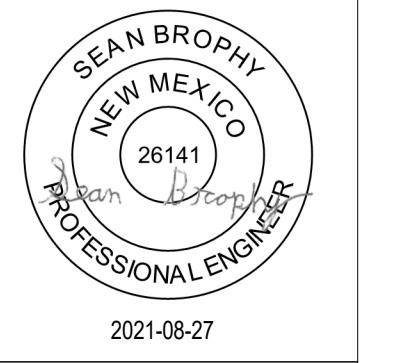
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SHEET TITLE:
EP101A

ELECTRICAL POWER
 PLAN - 1ST FLOOR -
 SHERIFF'S OFFICE



ELECTRICAL POWER PLAN - 2ND FLOOR
 1/8" = 1'-0"

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SHEET TITLE:
EP102A

ELECTRICAL POWER
 PLAN - 2ND FLOOR -
 SHERIFF'S OFFICE

E

D

C

B

A

SAN JUAN COUNTY GENERATOR PROJECTS 2021
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LEGEND

NEW OR MODIFIED IN THIS PROJECT
 EXISTING TO REMAIN
 EXISTING TO BE DEMOLISHED

GENERAL NOTES

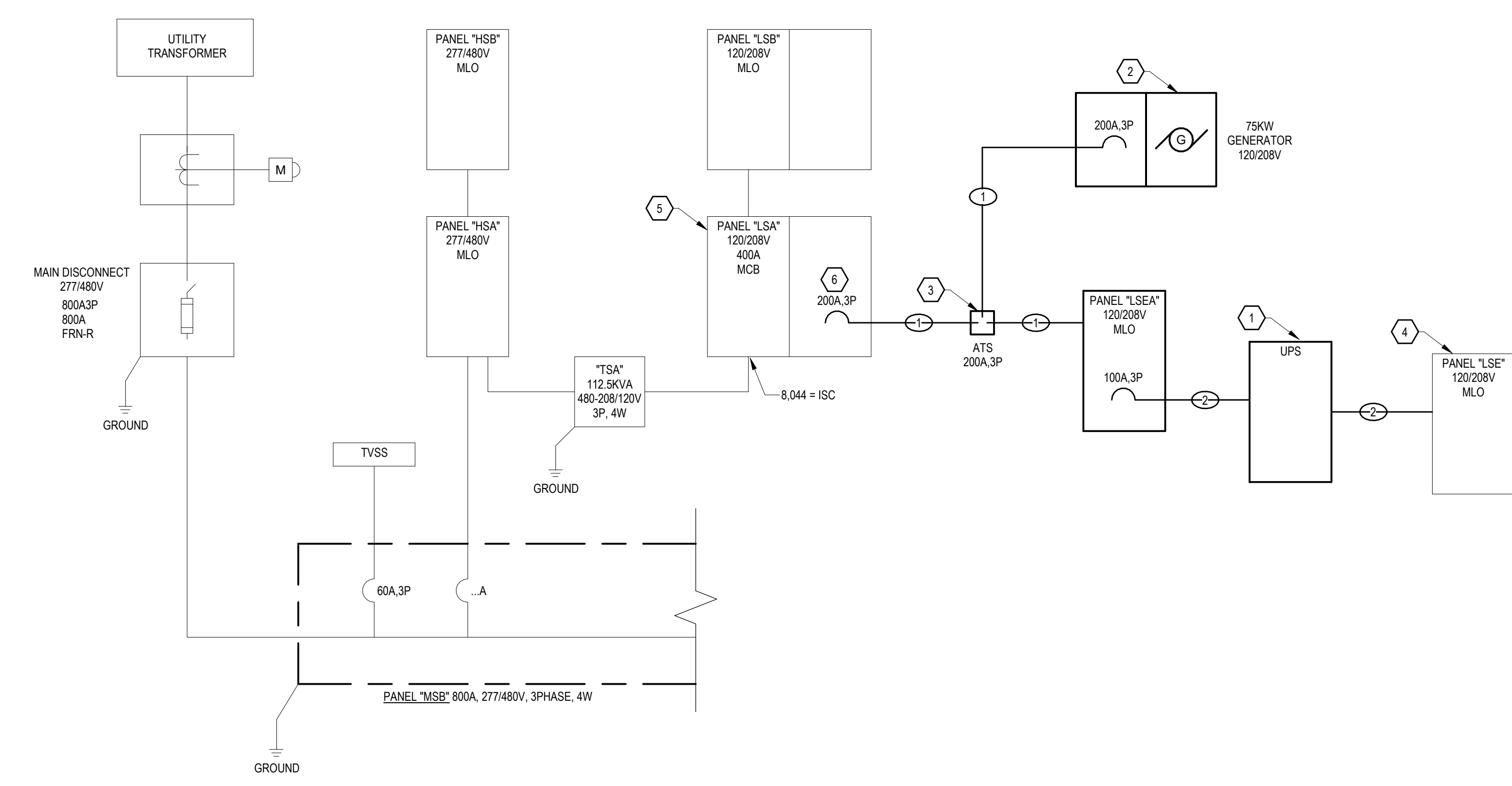
- ALL UNDERGROUND CONDUIT TO BE SCHEDULED 80 PVC.
- ALL EXPOSED EXTERIOR CONDUIT TO BE RIGID STEEL.
- THIS DIAGRAM IS SCHEMATIC, AND NOT INTENDED TO SPECIFY CONDUIT ROUTING OR FEED SIDE OF PANELS.
- WHERE ALUMINUM FEEDERS ARE SPECIFIED, VERIFY THAT ASSOCIATED PANELS ARE RATED FOR ALUMINUM CONDUCTORS.
- TERMINAL SCREWS ON ALL ALUMINUM FEEDERS SHALL BE TORQUED TO CONDUCTOR MANUFACTURER'S SPECIFICATIONS AT CONSTRUCTION, AND RE-TORQUED 90 DAYS AFTER COMMISSIONING.

KEYED NOTES

- INSTALL OWNER FURNISHED UPS. COORDINATE WITH OWNER PRIOR TO ROUGH IN.
- PROVIDE NEW GENERATOR.
- PROVIDE NEW ATS.
- REMOVE FEEDER FOR PANEL 'LSE' FROM PANEL IN 'LSA'; RECIRCUIT TO UPS.
- UPDATE PANEL SCHEDULE FOR PANEL 'LSA' AND TURN OFF SPARE BREAKERS.
- PROVIDE NEW 200A, 3P CIRCUIT BREAKER. MATCH ISC RATING OF THE PANEL.

FEEDER NOTES

- (4#3/0 & 1#6G)2°C
- (4#3 & 1#6G)1-1/4°C



ONE LINE DIAGRAM

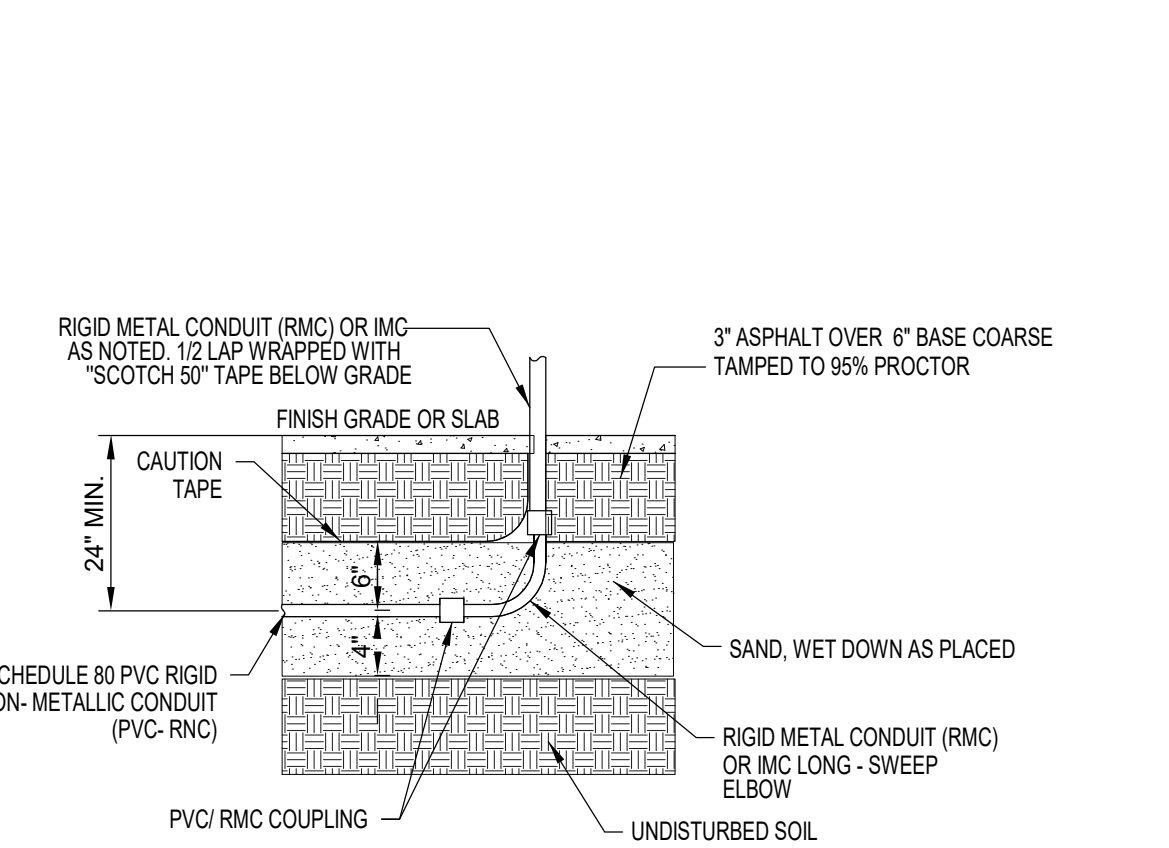
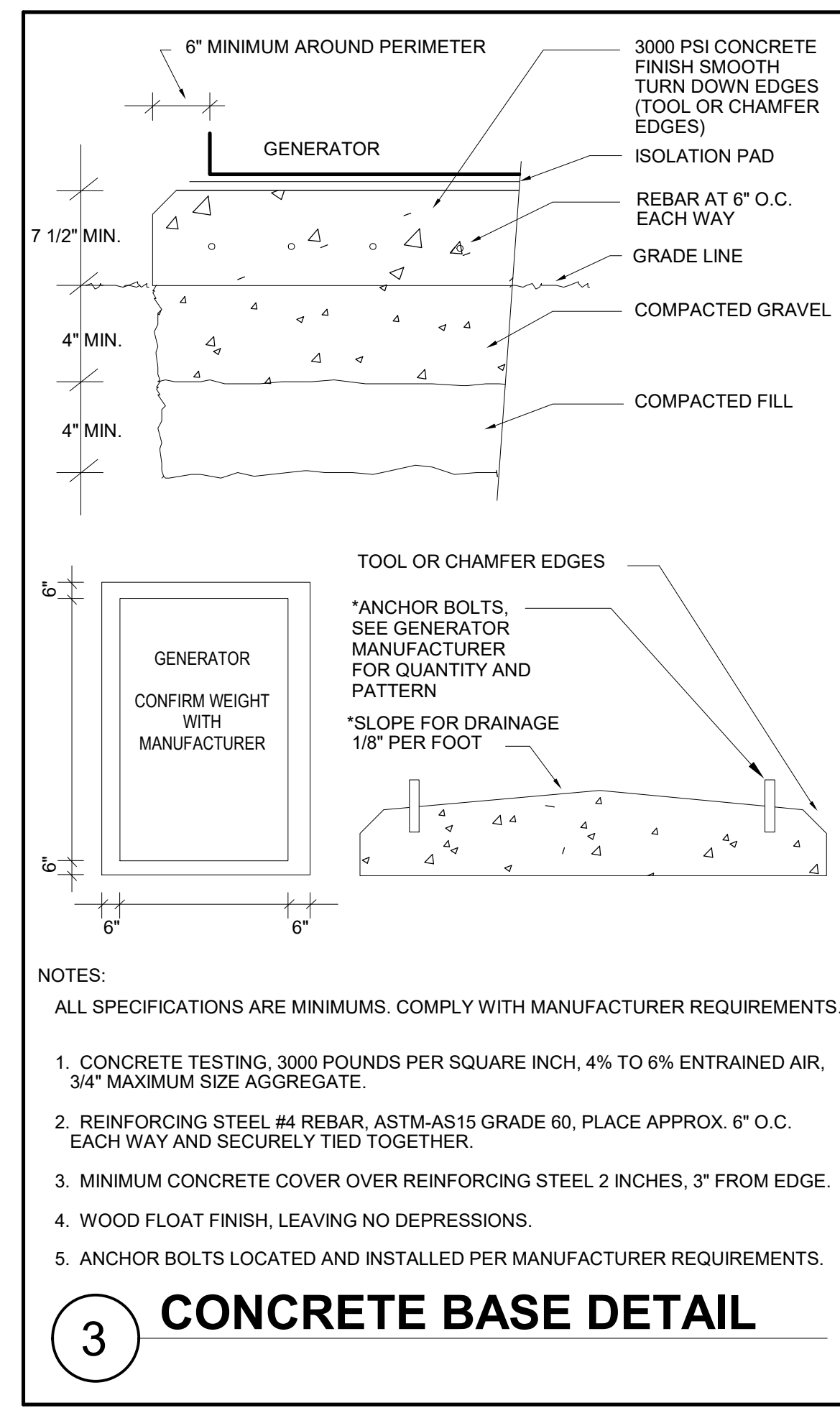
GENERATOR REQUIREMENTS	
Generator Size (Standby Rating)	70 Kw / 88 KVA
Output Voltage	208 V / 3 Phase
Upsized Alternator	NO
Code Requirement	NEC 702
Site Elevation	5600 FT
Fuel Type	Nat. Gas
Run Time (Full Load)	N/A
Battery Warmer, Engine Block Heater, and Oil Pan Heater	YES
Emergency Stop Button	YES
Sound Enclosure	NO
Enclosure	NEMA 3R
TRANSFER SWITCH:	
Type	Three Pole Automatic
Ampacity	200 AMP
Interrupt Rating	30,000 AMP
Enclosure	NEMA 1
NOTES:	
Provide C70 N6, or approved equal. See panel schedules for detailed load requirements. All generator calculations shall include manufacturer's specified derating for site altitude and temperature. Generator shall meet all requirements of code section listed. Include main line circuit breaker, convenience receptacle, safety light, and enclosure with radiator discharge upduct.	

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SHEET TITLE:
E501A

ONE-LINE AND PANEL SCHEDULES - SHERIFF'S OFFICE



ELECTRICAL SYMBOLS LEGEND

LIGHTING	COMMUNICATIONS	ABBREVIATIONS
<ul style="list-style-type: none"> RECTANGULAR FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN) ROUND FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN) TRACK LIGHTING (LENGTH AS SHOWN, HEADS NOT TO SCALE) POLE MOUNTED FIXTURE (HEADS NOT TO SCALE) ARM SYMBOL, ADDITION INDICATES WALL MOUNTING DOT SYMBOL, ADDITION INDICATES PENDANT MOUNTING HALF FILLED SYMBOL, INDICATES EMERGENCY VERSION EXIT SIGNS (FILL INDICATES NUMBER OF FACES) WITH DOUBLES WITH ARROW FACE 	<ul style="list-style-type: none"> DATA OUTLET DATA OUTLET, ABOVE COUNTER ANALOG PHONE OUTLET ANALOG PHONE OUTLET, ABOVE COUNTER COMBINATION DATA & ANALOG PHONE OUTLET COMBINATION DATA & ANALOG PHONE OUTLET, ABOVE COUNTER SUBSCRIPT INDICATES QUANTITY OF PORTS (IF MORE THAN 1) CIRCLE INDICATES FLUSH MOUNTING IN CEILING BOX INDICATES FLUSH MOUNTING IN FLOOR WIRELESS ACCESS POINT MICROPHONE, CEILING, WALL AND FLOOR MOUNTED RESPECTIVELY SPEAKER, CEILING, WALL AND FLOOR MOUNTED RESPECTIVELY INTERCOM CONTROL SWITCH SECURITY SYSTEM INFRARED MOTION SENSOR SECURITY SYSTEM CAMERA 	<ul style="list-style-type: none"> ABOVE COUNTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ARCHITECTURAL BELOW COUNTER CONDUIT ELECTRICAL CONTRACTOR ELECTRICAL ELECTRICAL METALLIC TUBING GENERAL CONTRACTOR GROUND ELECTRODE CONDUCTOR GAULVANE RIGID CONDUIT GROUND GROUND FAULT INTERRUPTER ISOLATED GROUND INTERMEDIATE METALLIC CONDUIT LIGHTNING ARRESTOR MECHANICAL CONTRACTOR MECHANICAL NOT IN CONTRACT NOT TO SCALE OVERHEAD ELECTRICAL FEEDER OVERHEAD PRIMARY FEEDER OVERHEAD SECONDARY FEEDER POLYVINYL CHLORIDE PLUMBING PANEL SAFE TORQUE OFF SPD - SURGE PROTECTIVE DEVICE UNDERGROUND UNDERGROUND ELECTRICAL FEEDER UNDERGROUND PRIMARY FEEDER UNDETERMINABLE POWER SUPPLY WEATHERPROOF TRANSFORMER
SWITCHING	FIRE ALARM	LINETYPES
<ul style="list-style-type: none"> LOW VOLTAGE SWITCH, SEE SPECS AND LIGHTING CONTROL SCHEDULE 20A, 1 POLE TOGGLE SWITCH 20A, 3WAY TOGGLE SWITCH 20A, 4WAY TOGGLE SWITCH 20A, 1 POLE KEY OPERATED SWITCH 20A, NETWORKED SWITCH DIMMER SWITCH PUSHBUTTON SWITCH TIME CLOCK SWITCH PHOTOBSENSOR ROOM CONTROLLER (ABOVE CEILING) CEILING OCCUPANCY SENSOR (ARROWS INDICATE VIEW) WALL OCCUPANCY SENSOR (ARROWS INDICATE VIEW) 	<ul style="list-style-type: none"> FIRE ALARM (FA) CONTROL PANEL FA ANNUNCIATOR FA ADA HORN/STROBE FA CEILING MOUNTED FA HORN/STROBE FA ADA STROBE FA CEILING MOUNTED FA STROBE FA FIRE ALARM CALL STATION FA FIREWORK DAMPER FA REMOTE INDICATOR FA FLOOR SWITCH FA TAMPER SWITCH FA SMOKE DETECTOR FA HEAT DETECTOR FA DUCT SMOKE DETECTOR 	<ul style="list-style-type: none"> SOLID BLACK INDICATES NEW DEVICE GRAY INDICATES EXISTING DEVICE TO REMAIN DASHED INDICATES EXISTING DEVICE TO BE DEMOLISHED DASHED WITH "R" INDICATES EXISTING DEVICE TO BE RELOCATED
POWER OUTLETS	DOOR CONTROLS	SITE PLAN
<ul style="list-style-type: none"> SIMPLEX TYPE RECEPTACLE 20A, 120V, DUPLEX RECEPTACLE 20A, 120V, FOURPLEX RECEPTACLE 2P-4W RECEPTACLE (SEE PANEL SCHEDULE FOR DETAILS) 20A, 120V, GROUND FAULT PROTECTED (AT RECEPT OR BREAKER, AS REQUIRED FOR ACCESSIBILITY) 20A, 120V, WEATHERPROOF IN USE COVER GROUND FAULT PROTECTED AT RECEPT OR BREAKER, AS REQUIRED FOR ACCESSIBILITY 20A, 120V, DUPLEX RECEPTACLE, ABOVE COUNTER SPECIAL RECEPTACLE CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 120V FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 120V FLOOR MOUNTED FOURPLEX RECEPTACLE, 20A, 120V MULTI GANG FLOOR BOX (P1) GANG DUPLEX POWER, (P1+1) GANG 14 DATA PORTS, (P1) GANG MINIMUM NO. OF GANGS P1 1ST GANG P2 2ND GANG ETC. ... 	<ul style="list-style-type: none"> REMOTE INTERFACE AUTOMATIC DOOR OPERATOR (A.D.O. OPER) MAGNETIC DOOR HOLDER DOOR POSITION SWITCH ELECTRIC LOCK ELECTRIC STRIKE KEY PAD KEY CARD READER BUSZ-AUTORETRON SYSTEM PANIC BUTTON/DURSS SYSTEM 	<ul style="list-style-type: none"> UGP - UNDERGROUND ELECTRICAL PRIMARY FEEDER UGE - UNDERGROUND ELECTRICAL FEEDER UGC - UNDERGROUND COMMUNICATIONS OHE - OVERHEAD ELECTRICAL FEEDER OHP - OVERHEAD ELECTRICAL PRIMARY FEEDER TV - UNDERGROUND TELEVISION CABLE TE - UNDERGROUND TELEPHONE CABLE
POWER DISTRIBUTION	NURSE CALL	GENERAL NOTES
<ul style="list-style-type: none"> DISCONNECT SWITCH METER RELAY THERMOSTAT OUTLET BOX, SINGLE GANG BOX, PLASTER RING (UNLESS OTHERWISE NOTED) 1/2" CONDUIT AND RIGID CONDUIT TO MOUNT JUNCTION BOX, CEILING, WALL AND FLOOR MOUNTED, RESPECTIVELY BRANCH CIRCUIT PANEL BOARD, SEE SCHEDULE FOR MOUNTING PAD MOUNT TRANSFORMER WALL MOUNT TRANSFORMER SURGE PROTECTION DEVICE GROUND CONDUIT SUB-OUT 	<ul style="list-style-type: none"> PULL CORD, WALL MOUNTED PULL CORD, CEILING MOUNTED CALL BUTTON INDICATOR LIGHT CONTROL STATION 	<ul style="list-style-type: none"> KEYED NOTE MECHANICAL EQUIPMENT IDENTIFICATION KITCHEN EQUIPMENT IDENTIFICATION LIGHTING CONTROL SCENARIO IDENTIFICATION ACCESS CONTROL SCENARIO IDENTIFICATION
MOUNTING	GENERAL NOTES	
<p>NOTES: 1. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. 2. DIMENSIONS ARE TO TOP OF DEVICE WITH TRIM, ADJUST BACK BOX LOCATION AS REQUIRED. 3. ALL MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA)</p>	<p>1. PRODUCT SUBSTITUTIONS: ALL PROPOSED PRODUCT SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BIDDING. REFER TO DIVISION 1 SPECIFICATIONS FOR SUBSTITUTION REQUEST DEADLINE. REFER TO THE APPROPRIATE DIVISION 28 SPECIFICATION SECTION FOR DETAILED REQUIREMENTS FOR EACH TYPE OF PRODUCT. SUBSTITUTION REVIEWS WILL BE ISSUED IN ADDENDA TO ALL BIDDERS, NO LATER THAN FINAL ADDENDUM BEFORE BID DUE DATE.</p> <p>2. DIVISION 28 SCOPE: ALL LINE VOLTAGE WIRING AND CONDUIT SYSTEMS REQUIRED BY ANY DIVISION SHALL BE THE RESPONSIBILITY OF THE DIVISION 28 CONTRACTOR. EVERY ATTEMPT WILL BE MADE TO REFLECT THESE REQUIREMENTS ON THE ELECTRICAL SHEETS, BUT IT IS THE DIVISION 28 CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE DRAWING SET, FAMILIARIZE HIMSELF WITH THE COMPLETE PROJECT SCOPE, AND COORDINATE WITH OTHER DIVISIONS.</p> <p>3. EXISTING CONDITIONS: THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. VISIT THE SITE OF THE WORK, FULLY INFORM HIMSELF AS TO ALL EXISTING CONDITIONS, DIMENSIONS AND LIMITATIONS BEFORE STARTING WORK. IF DISCREPANCIES ARE FOUND BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ENGINEER FOR DIRECTION BEFORE PROCEEDING.</p> <p>4. SURFACE REPAIR: COORDINATE WITH GENERAL CONTRACTOR FOR REPAIR OF ADJACENT CONSTRUCTION AND FINISHES DAMAGED OR EXPOSED DURING DEMOLITION WORK. REPAIRS SHALL MATCH EXISTING FINISHES, AND INCLUDE PAINT ON ENTIRE WALL WHERE REQUIRED TO MATCH COLOR.</p> <p>5. CODES: PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE, ADOPTED CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE (NEC), IBC, IBC, NFPA, AND ADA. IF ANY DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS, CONTRACTOR SHALL SUBMIT RFI TO ENGINEER FOR DIRECTION BEFORE PROCEEDING.</p> <p>6. UTILITY COORDINATION: WHEN INSTALLING OR MODIFYING SERVICE OR METERING EQUIPMENT, COORDINATE WITH UTILITY COMPANY TO ENSURE THAT THEIR STANDARDS ARE BEING MET. IF ANY DISCREPANCY IS FOUND BETWEEN UTILITY STANDARDS AND CONTRACT DOCUMENTS, SUBMIT RFI TO ENGINEER FOR DIRECTION.</p> <p>7. STRUCTURAL PENETRATIONS: OBTAIN PERMISSION FROM STRUCTURAL ENGINEER BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.</p> <p>8. EXACT LOCATIONS: WHERE DEVICES ARE SHOWN IN CASEWORK, COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ROUGH-IN. VERIFY FINAL LOCATIONS OF ALL SINKS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN OF NEARBY ELECTRICAL DEVICES. COORDINATE THE EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH OTHER TRADES PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE UP TO A DISTANCE OF 12", PRIOR TO INSTALLATION, WITHOUT ADDITIONAL CHARGE.</p> <p>9. GROUNDING CONDUCTORS: INSTALL WIRE-TYPE EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. CONDUIT OR CABLE SHEATH IS NOT ALLOWED TO BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR, UNLESS EXPLICITLY CALLED FOR OR ALLOWED IN A PARTICULAR LOCATION ON CONSTRUCTION DRAWINGS.</p> <p>10. GROUNDING CONNECTIONS: ALL GROUNDING AND BONDING CONNECTORS SHALL BE UL LISTED FOR THE APPLICATION AND ENVIRONMENT IN WHICH THEY ARE USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.</p> <p>11. GROUNDING OF POLES: IF THE POLE STRUCTURE IS SUPPLIED BY ONLY A SINGLE BRANCH CIRCUIT, A SEPARATE GROUNDING ELECTRODE (ROD) IS NOT REQUIRED. BOND THE EQUIPMENT GROUNDING CONDUCTOR OF THE SUPPLY CIRCUIT TO POLE BASE REBAR AND EXPOSED METALLIC POLE COMPONENTS. IF THE POLE STRUCTURE IS SUPPLIED BY MULTIPLE BRANCH CIRCUITS, INSTALL AN 8 FT GROUND ROD AT THE POLE, AND BOND TO POLE BASE REBAR, EXPOSED METALLIC POLE COMPONENTS, AND EQUIPMENT GROUNDING CONDUCTORS OF ALL SUPPLY CIRCUITS.</p> <p>12. GROUNDING OF FENCES: FENCES ENCLOSING TRANSFORMERS, GENERATORS, OR SOLAR WIND GENERATION EQUIPMENT SHALL BE BONDED TO THE GROUNDING ELECTRODE(S) ASSOCIATED WITH THE EQUIPMENT.</p> <p>13. PANEL SCHEDULES: PROVIDE TYPED SCHEDULES FOR ALL PANELS, CONTAINING ALL NEW CIRCUITING AS INSTALLED, AND ALL EXISTING CIRCUIT INFORMATION AVAILABLE TO CONTRACTOR. PRINTING SCHEDULES FROM THE DRAWING SET IS NOT ACCEPTABLE. RE-ATTACHING OLD SCHEDULES FROM REPLACED PANELS IS NOT ACCEPTABLE.</p> <p>14. NEUTRAL CONDUCTORS: PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL CIRCUITS, OF SAME SIZE AS PHASE CONDUCTOR(S). SHARED NEUTRALS ARE NOT ACCEPTABLE WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.</p> <p>15. ROMEX: FLEXIBLE NONMETALLIC CABLE (ROME) IS NOT ACCEPTABLE IN ANY LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.</p> <p>16. MC CABLE: FLEXIBLE METALLIC CABLE (MC) IS ACCEPTABLE ONLY IN CONCEALED LOCATIONS, AND ONLY FOR CIRCUITS 20 AMPS OR LESS. SEE SPECIFICATIONS FOR DETAILED INSTALLATION REQUIREMENTS.</p> <p>17. CRAWL SPACES: CRAWL SPACES ARE CONSIDERED WET LOCATIONS. CONDUIT MUST BE PVC OR RMC, AND ANY MC CABLE MUST BE PVC JACKETED.</p>	

GENERAL ELECTRICAL NOTES

1. PRODUCT SUBSTITUTIONS: ALL PROPOSED PRODUCT SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BIDDING. REFER TO DIVISION 1 SPECIFICATIONS FOR SUBSTITUTION REQUEST DEADLINE. REFER TO THE APPROPRIATE DIVISION 28 SPECIFICATION SECTION FOR DETAILED REQUIREMENTS FOR EACH TYPE OF PRODUCT. SUBSTITUTION REVIEWS WILL BE ISSUED IN ADDENDA TO ALL BIDDERS, NO LATER THAN FINAL ADDENDUM BEFORE BID DUE DATE.

2. DIVISION 28 SCOPE: ALL LINE VOLTAGE WIRING AND CONDUIT SYSTEMS REQUIRED BY ANY DIVISION SHALL BE THE RESPONSIBILITY OF THE DIVISION 28 CONTRACTOR. EVERY ATTEMPT WILL BE MADE TO REFLECT THESE REQUIREMENTS ON THE ELECTRICAL SHEETS, BUT IT IS THE DIVISION 28 CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE DRAWING SET, FAMILIARIZE HIMSELF WITH THE COMPLETE PROJECT SCOPE, AND COORDINATE WITH OTHER DIVISIONS.

3. EXISTING CONDITIONS: THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. VISIT THE SITE OF THE WORK, FULLY INFORM HIMSELF AS TO ALL EXISTING CONDITIONS, DIMENSIONS AND LIMITATIONS BEFORE STARTING WORK. IF DISCREPANCIES ARE FOUND BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ENGINEER FOR DIRECTION BEFORE PROCEEDING.

4. SURFACE REPAIR: COORDINATE WITH GENERAL CONTRACTOR FOR REPAIR OF ADJACENT CONSTRUCTION AND FINISHES DAMAGED OR EXPOSED DURING DEMOLITION WORK. REPAIRS SHALL MATCH EXISTING FINISHES, AND INCLUDE PAINT ON ENTIRE WALL WHERE REQUIRED TO MATCH COLOR.

5. CODES: PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE, ADOPTED CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE (NEC), IBC, IBC, NFPA, AND ADA. IF ANY DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS, CONTRACTOR SHALL SUBMIT RFI TO ENGINEER FOR DIRECTION BEFORE PROCEEDING.

6. UTILITY COORDINATION: WHEN INSTALLING OR MODIFYING SERVICE OR METERING EQUIPMENT, COORDINATE WITH UTILITY COMPANY TO ENSURE THAT THEIR STANDARDS ARE BEING MET. IF ANY DISCREPANCY IS FOUND BETWEEN UTILITY STANDARDS AND CONTRACT DOCUMENTS, SUBMIT RFI TO ENGINEER FOR DIRECTION.

7. STRUCTURAL PENETRATIONS: OBTAIN PERMISSION FROM STRUCTURAL ENGINEER BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.

8. EXACT LOCATIONS: WHERE DEVICES ARE SHOWN IN CASEWORK, COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ROUGH-IN. VERIFY FINAL LOCATIONS OF ALL SINKS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN OF NEARBY ELECTRICAL DEVICES. COORDINATE THE EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH OTHER TRADES PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE UP TO A DISTANCE OF 12", PRIOR TO INSTALLATION, WITHOUT ADDITIONAL CHARGE.

9. GROUNDING CONDUCTORS: INSTALL WIRE-TYPE EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. CONDUIT OR CABLE SHEATH IS NOT ALLOWED TO BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR, UNLESS EXPLICITLY CALLED FOR OR ALLOWED IN A PARTICULAR LOCATION ON CONSTRUCTION DRAWINGS.

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16. MC CABLE: FLEXIBLE METALLIC CABLE (MC) IS ACCEPTABLE ONLY IN CONCEALED LOCATIONS, AND ONLY FOR CIRCUITS 20 AMPS OR LESS. SEE SPECIFICATIONS FOR DETAILED INSTALLATION REQUIREMENTS.

17. CRAWL SPACES: CRAWL SPACES ARE CONSIDERED WET LOCATIONS. CONDUIT MUST BE PVC OR RMC, AND ANY MC CABLE MUST BE PVC JACKETED.

GENERAL DEMOLITION NOTES

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

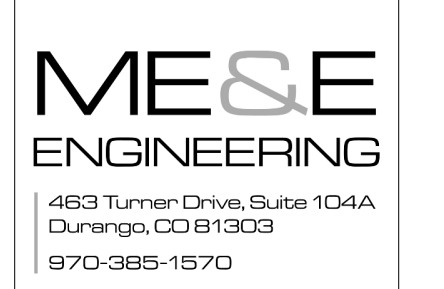
2. DEMOLITION SCOPE: THE DEMOLITION PLAN SHALL BE USED AS A SCHEMATIC GUIDE. IF ADDITIONAL DEMOLITION WORK OR INCREASED COST IS REQUIRED TO COMPLETE THE NEW CONSTRUCTION / REMODELING AS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.

3. SURFACE REPAIR: WHERE DIRECTED TO REMOVE EXISTING EQUIPMENT / DEVICES FROM AN ARCHITECTURAL SURFACE THAT IS TO REMAIN, CONTRACTOR IS RESPONSIBLE FOR ASSOCIATED REPAIR, PATCHING, AND PAINTING OF SURFACE TO MATCH EXISTING.

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

5. REMOVED MATERIALS: UNLESS OTHERWISE NOTED IN DRAWINGS, ALL EXISTING REMOVED EQUIPMENT SHALL BE STOCKPILED AT THE SITE AT AN OWNER APPROVED LOCATION UNTIL AN INSPECTION BY THE OWNER'S REPRESENTATIVE DETERMINES WHAT WILL BE SALVAGED. ALL EQUIPMENT NOT SALVAGED SHALL BE HAULED OFF THE SITE BY THE CONTRACTOR.

6. MATERIALS TO BE REUSED: VERIFY THAT ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUCTORS, OR CONDUIT TO BE RELOCATED OR RECONNECTED ARE IN WORKING ORDER PRIOR TO ANY DEMOLITION WORK. IF THE EXISTING MATERIAL IS FOUND TO BE DEFICIENT OR APPEARS TO BE AN INAPPROPRIATE SIZE OR TYPE, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.



2021-08-27

SAN JUAN COUNTY GENERATOR PROJECTS 2021
OWNER BID #21-22-04
BID LOT A - SHERIFF'S OFFICE

211 S Oliver Drive
Aztec, NM 87410

REVISIONS (DATE) NAME

PROJECT NO: 1921
DATE: 07/07/21

DRAWN BY: NB
CHECKED BY: SB

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SHEET TITLE:

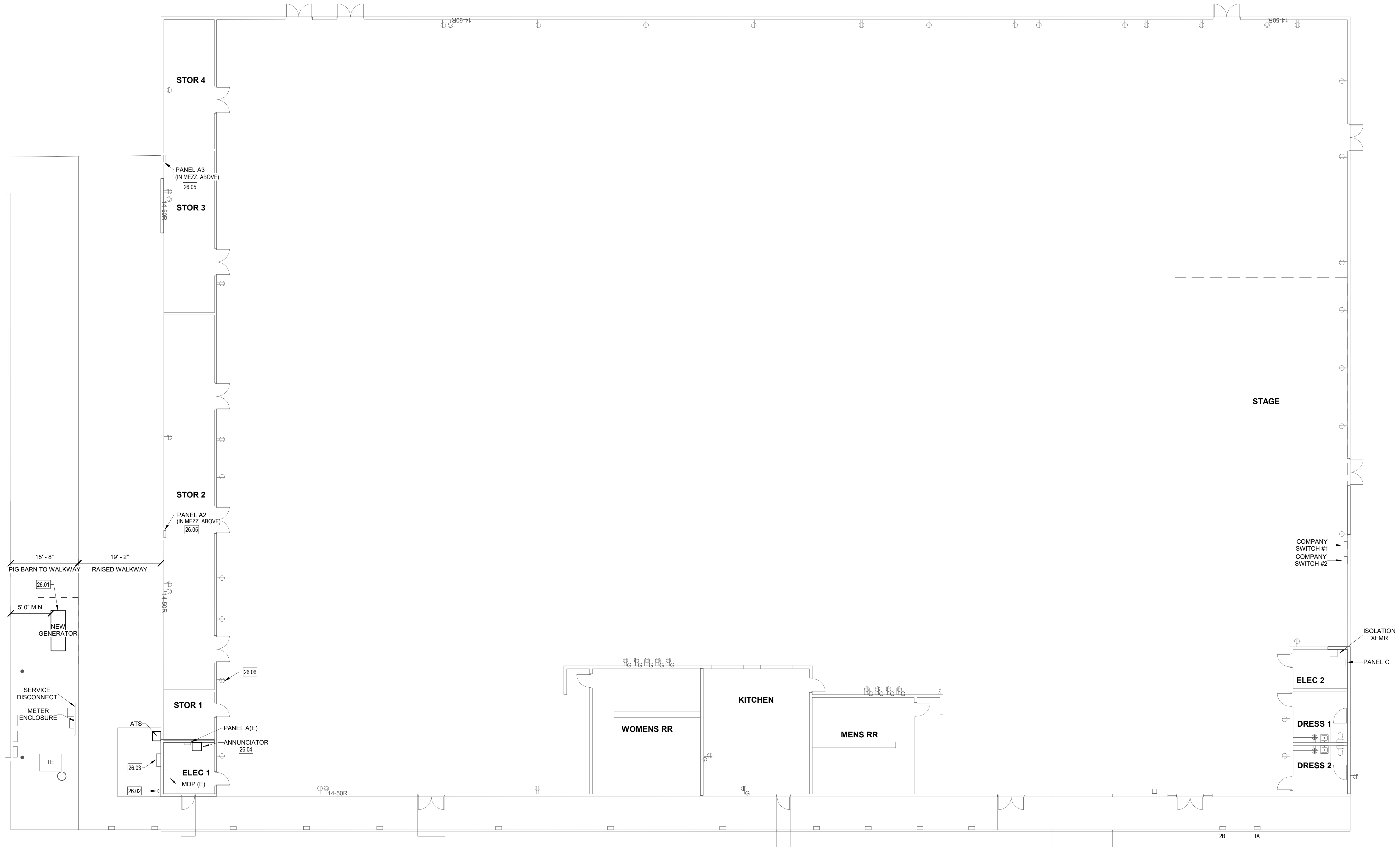
E601A

ELECTRICAL LEGEND, NOTES, AND DETAILS - SHERIFF'S OFFICE

KEYED NOTES	
26.01	PROVIDE AND INSTALL NEW GENERATOR AND NEW CONCRETE PAD PER MANUFACTURER RECOMMENDATIONS AND CONCRETE BASE DETAIL. COORDINATE WITH GC FOR REMOVAL OF FENCING AND LANDSCAPING TO ACCOMMODATE. MAINTAIN MINIMUM 5 FEET CLEARANCE BETWEEN GENERATOR AND ANY FLAMMABLE STRUCTURES. MAINTAIN MINIMUM 4 FOOT CLEARANCE BETWEEN GENERATOR AND NON-FLAMMABLE STRUCTURES. MAINTAIN MINIMUM 10 FEET CLEARANCE BETWEEN GENERATOR EXHAUST OUTLET AND ANY BUILDING OPENINGS. PROVIDE 3' WORKING CLEARANCE ON ALL SIDES OF GENERATOR.
26.02	INSTALL EMERGENCY STOP BUTTON FOR GENERATOR AT THIS LOCATION. BUTTON SHALL BE BREAK-GLASS TYPE. PROVIDE PERMANENT WEATHERPROOF LABEL READING "GENERATOR EMERGENCY STOP".
26.03	EXISTING 26"X30"X4" 120 PULL BOX. INTERCEPT SERVICE CONDUCTORS HERE. FEED TO ATS, AND BACKFEED TO MDP.
26.04	PROVIDE NEW GENERATOR ANNUNCIATOR PANEL. PROVIDE CONTACTS TO SHUNT TRIPS IN THE TWO MEZZANINE PANELS TO TRIP DURING LOSS OF BUILDING POWER. COORDINATE EXACT LOCATION OF ANNUNCIATOR WITH OWNER PRIOR TO ROUGH-IN.
26.05	PROVIDE SHUNT TRIP MAIN IN THIS PANEL AND CONNECT TO GENERATOR ANNUNCIATOR.
26.06	AS PART OF GENERATOR REPLACEMENT, IDENTIFY ALL RECEPTACLES IN MAIN EVENT SPACE WHICH ARE FED FROM PANELS A OR C, AND REPLACE FACEPLATES WITH NEW RED FACEPLATES. GENERALLY, THIS SHOULD INCLUDE ALL INDOOR WALL RECEPTACLES.

ME&E ENGINEERING
 4833 Turner Drive, Suite 104A
 Chicago, IL 60630
 970-395-1570

SEAN BROPHY
 NEW MEXICO
 28141
 PROFESSIONAL ENGINEER
 2021-08-26



SAN JUAN COUNTY GENERATOR PROJECTS 2021
 OWNER BID #21-22-04
 BID LOT B - MCGEE PARK CONVENTION CENTER
 41 RD 5568, FARMINGTON, NM 87401

REVISIONS	DATE	NAME
1		

PROJECT NO: 1921
 DATE: 10/23/17
 DRAWN BY: NB
 CHECKED BY: SB
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SHEET TITLE:
E101B

ELECTRICAL PLAN - CONVENTION CENTER - 1ST FLOOR

1 ELECTRICAL PLAN - CONVENTION CENTER - 1ST FLOOR
 3/32" = 1'-0"

1 2 3 4 5 6

E

D

C

B

A

SAN JUAN COUNTY GENERATOR PROJECTS 2021
 OWNER BID #21-22-04
 BID LOT B - MCGEE PARK CONVENTION CENTER
 41 RD 5568, FARMINGTON, NM 87401

REVISIONS	DATE	NAME
1		

PROJECT NO: 1921
 DATE: 10/23/17
 DRAWN BY: NB
 CHECKED BY: SB
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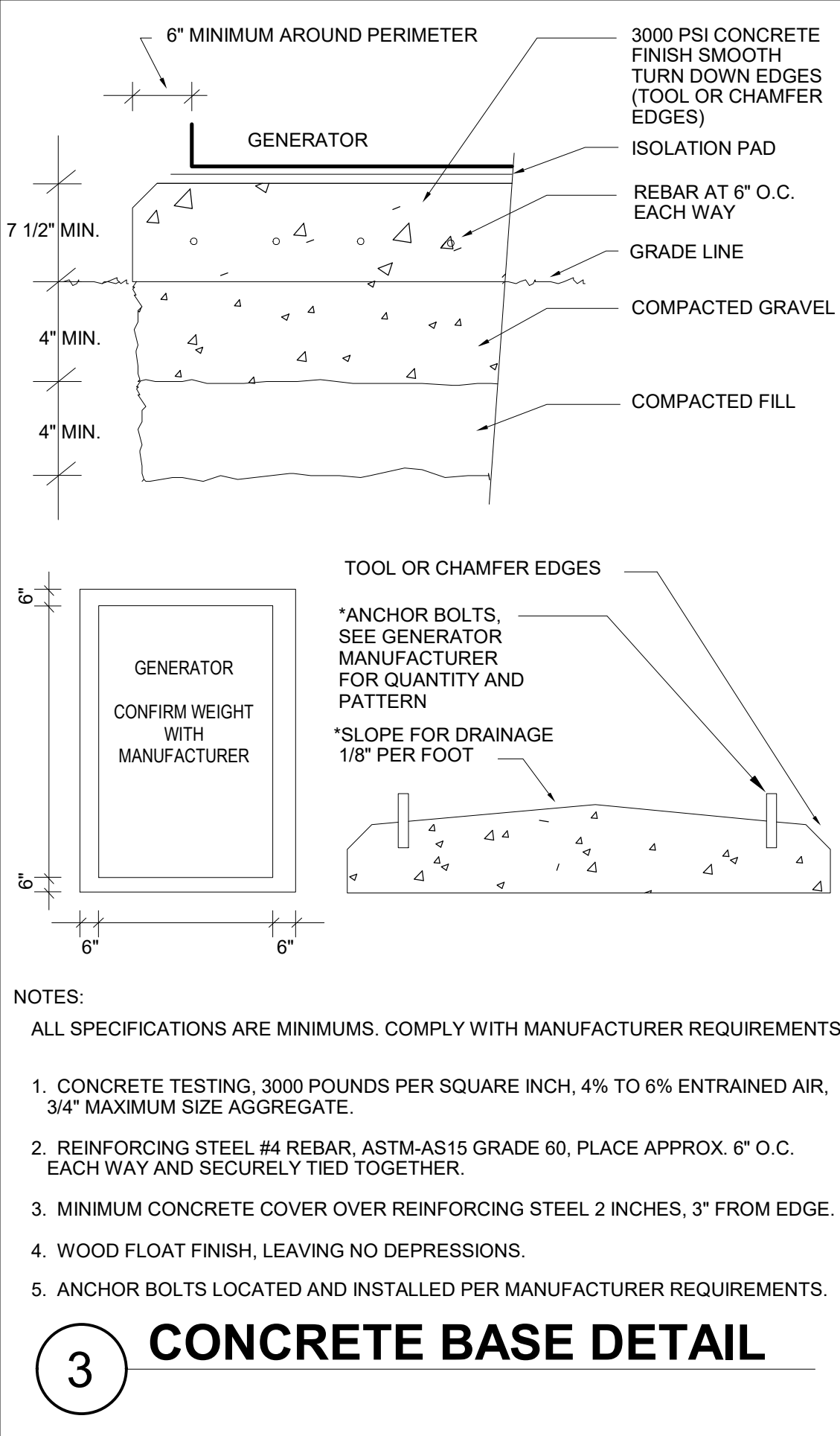
SHEET TITLE:
E501B

ELECTRICAL RISER DIAGRAM - CONVENTION CENTER NEW WORK

LOAD SHEDDING SEQUENCE OF OPERATION	
Generator control panel or ATS shall provide initiating signals to other equipment under three conditions:	
1. When utility power is lost, an initiating signal shall be provided to all rooftop HVAC units to enter "heating only" mode, before the generator is started.	
2. When utility power returns, an initiating signal shall be provided to all rooftop HVAC units to return to normal operation.	
3. While the generator is running, total load shall be monitored. When demand reaches 85% of generator capacity at site elevation, an initiating signal shall be provided to open the following shunt trip breakers:	
Supply to Panel A2 Supply to Panel A3	

TRANSFER SWITCH SPECIFICATION	
Type	Three Pole Automatic
Ampacity	800 AMP
Minimum Interrupt Rating	42,000
Enclosure	NEMA 3R
Service Entrance Rated	NO
NOTES:	
Provide model indicated, or submit substitution request prior to bidding. All generator calculations shall include manufacturer's specified derating for site altitude and temperature. Generator shall meet NFPA 110 as a Level 1 standby power source.	

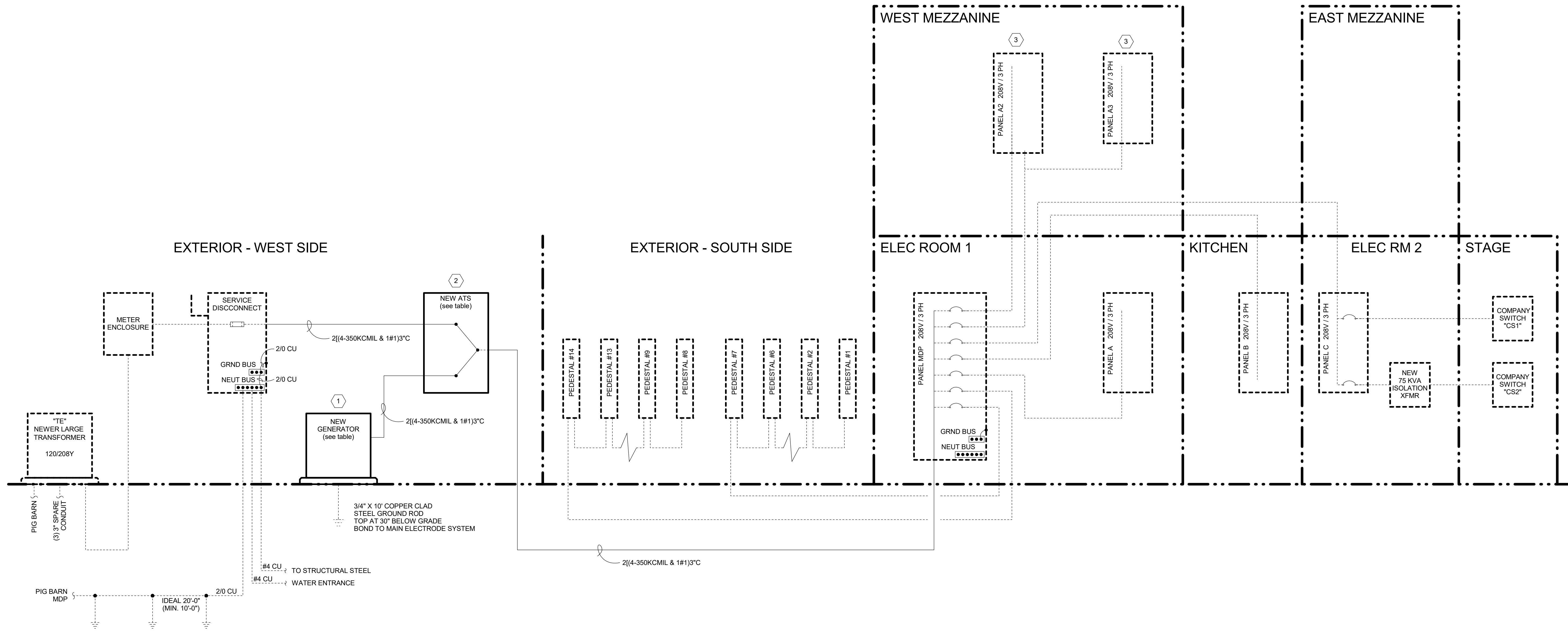
GENERATOR SPECIFICATION	
Make/Model	Cummins / C175D6D
Output Voltage	208V-3PH
Fuel Type	Diesel + 8 Hour Tank
Site Conditions	5600' ASL / 100 deg F
Minimum Standby Rating at Site Conditions	500 AMP
Upsized Alternator	NO
Battery Warmer & Block Heater	YES
Remote Emergency Stop	BREAK-GLASS TYPE
Remote Annunciator	YES
Main Line Circuit Breaker	YES
Enclosure	NEMA 3R (no sound attenuation)



- NOTES:**
 ALL SPECIFICATIONS ARE MINIMUMS. COMPLY WITH MANUFACTURER REQUIREMENTS.
1. CONCRETE TESTING, 3000 POUNDS PER SQUARE INCH, 4% TO 6% ENTRAINED AIR, 3/4" MAXIMUM SIZE AGGREGATE.
 2. REINFORCING STEEL #4 REBAR, ASTM-A615 GRADE 60, PLACE APPROX. 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
 3. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 2 INCHES, 3" FROM EDGE.
 4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.
 5. ANCHOR BOLTS LOCATED AND INSTALLED PER MANUFACTURER REQUIREMENTS.

3 CONCRETE BASE DETAIL

RISER KEYED NOTES	RISER GENERAL NOTES
<ol style="list-style-type: none"> 1. PROVIDE NEW GENERATOR IN YARD. REFER TO SHEET E101 FOR LOCATION. 2. PROVIDE NEW WALL MOUNTED AUTOMATIC TRANSFER SWITCH. REFER TO SHEET E101 FOR LOCATION. 3. PROVIDE MAIN SHUNT TRIP BREAKERS IN THIS PANEL FOR GENERATOR LOAD SHEDDING. 	<ol style="list-style-type: none"> 1. ALL UNDERGROUND CONDUIT TO BE SCHEDULE 80 PVC. 2. ALL EXPOSED EXTERIOR CONDUIT TO BE RIGID STEEL. 3. THIS DIAGRAM IS SCHEMATIC, AND NOT INTENDED TO SPECIFY CONDUIT ROUTING OR FEED SIDE OF PANELS. 4. WHERE ALUMINUM FEEDERS ARE SPECIFIED, VERIFY THAT ASSOCIATED PANELS ARE RATED FOR ALUMINUM CONDUCTORS. 5. TERMINAL SCREWS ON ALL ALUMINUM FEEDERS SHALL BE TORQUED TO CONDUCTOR MANUFACTURER'S SPECIFICATIONS AT CONSTRUCTION, AND RE-TORQUED 90 DAYS AFTER COMMISSIONING.
RISER LEGEND	
<p>..... EXISTING TO REMAIN</p> <p>////// EXISTING TO BE DEMOLISHED</p> <p>----- NEW OR MODIFIED IN THIS PROJECT</p> <p>----- BUILDING AREA</p>	



1 CONVENTION CENTER SINGLE LINE DIAGRAM - NEW

1 2 3 4 5 6