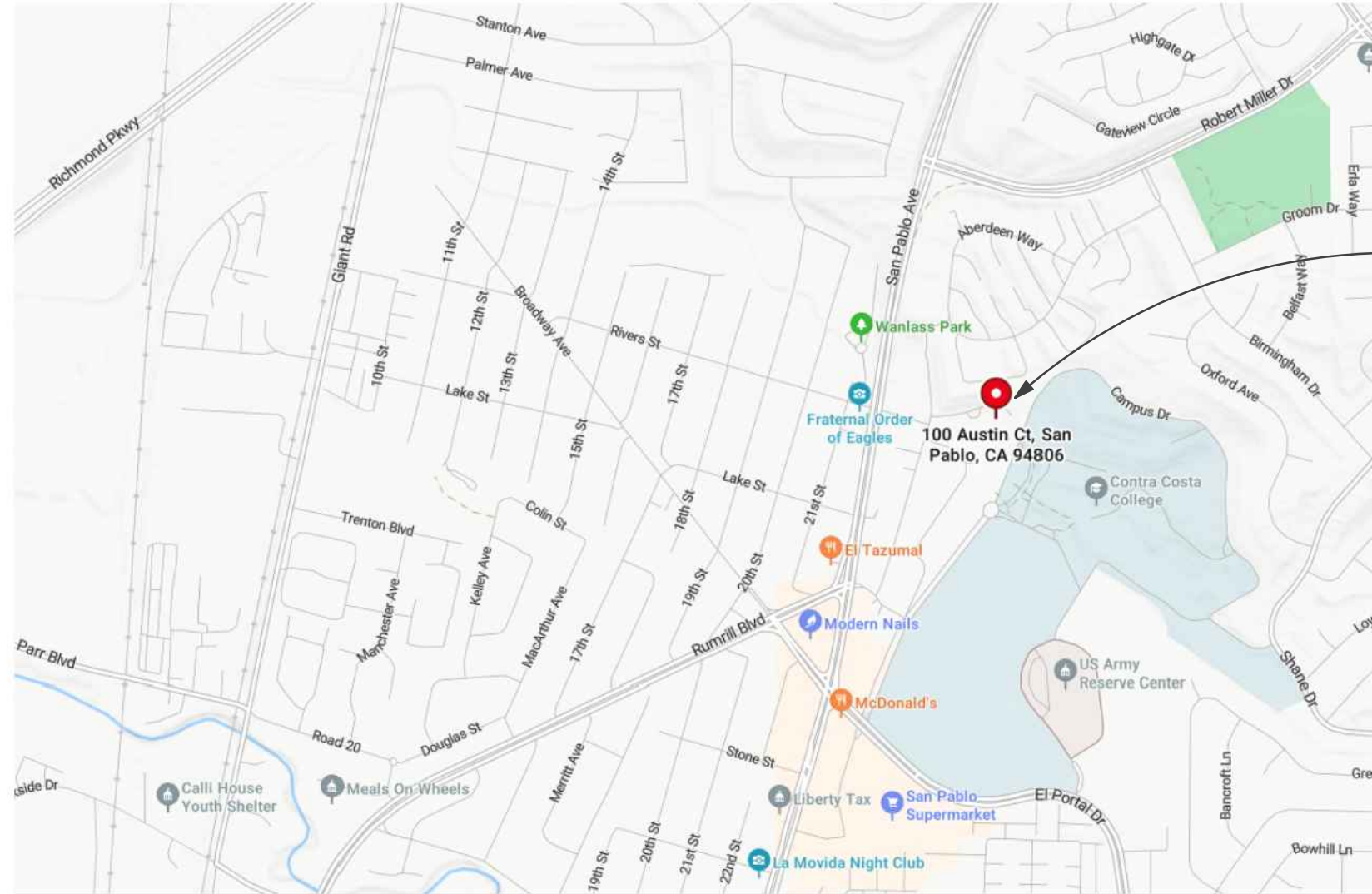




project
location

NEW GENERATOR for CONTRA COSTA HOUSING AUTHORITY

100 Austin Court
San Pablo, CA 94806

② Vicinity Map
1" = 400'-0"

ANNOTATIONS

- Room name**
[101]
150 SF
- ROOM TAG
(Room Name, Number,
Square Footage)
- 1** SIM
A101
- DETAIL CALLOUT
Detail Number / Sheet Number
- 1** Ref
A101
- INTERIOR ELEVATION CALLOUT
View Name / Detail Number / Sheet Number
- 1** Ref
A101
- EXTERIOR ELEVATION CALLOUT
View Name / Detail Number / Sheet Number
- 1** SIM
A101
- SECTION CALLOUT
Detail Number / Sheet Number
- 1** View Name
1/8" = 1'-0"
- VIEW TITLE CALLOUT
Detail Number / Scale
- 1** Ref
A101
- SECTION TAIL
Vertical Direction / Horizontal Direction
- 1** ?
- Keynote Tag Number
- 1** 1
- Elevation Target Callout
- 1** 1
- Plumbing Equipment Number
- 1** 1
- Revision Number
- 1** 1
- Door Identifier Number
- 1** 1
- Signage Identifier Number
- 1** 1
- Specialty Equipment Number
- 1** 1
- Wall Identifier Number
- 1** 1
- Window Identifier Number
- 1** 1
- Detail Break Line

CEILING

- 1** 1
- RETURN AIR GRILLE
- 1** 1
- SUPPLY DIFFUSER
- 1** 1
- CEILING FAN
- 1** 1
- RECESSED CAN LIGHT FIXTURE
- 1** 1
- 2 X 2 LAY-IN GRID LIGHT FIXTURE



Google Earth
Image Landsat / Copernicus

① Site Plan
1" = 50'-0"

CONTACT LIST

ELECTRICAL DESIGNER

CAPITOL CITY DESIGN
1751 CEBRIAN STREET
WEST SACRAMENTO, CA 95691
O. 916.375.0315
F.916.375.0773

SHEET INDEX

ELECTRICAL

TE1 Electrical Title Sheet
E1.0 Symbols List, General Notes
E1.1 One Line Diagram - Panel Schedule
E2.0 Demolition Floor Plan - Power
E3.0 Floor Plan - Power
E4.0 Generator Specs

1 HOUR CONSTRUCTION

- Existing Generator Room Concrete Slab, Concrete Support Walls, Non-Bearing Wood Framed Walls With Stucco on Both Sides and Ceiling (Floor for Unit Above) is Concrete Slab Construction.

MECHANICAL

M1.0 Floor Plan - Mechanical

PLUMBING

P1.0 Floor Plan - Plumbing

ACCESSIBILITY NOTES

GENERAL NOTE:

This Project is for Electrical Work only, to upgrade the Existing Electrical System and Componentry.

No Accessibility Work if Required.

FIRE SPRINKLER NOTES

No Fire Sprinkler Work is required. There is no Interior Work Proposed with this Remodel.

CODE SUMMARY

CODES USED:

2025 CALIFORNIA BUILDING CODE
2025 CALIFORNIA ELECTRICAL CODE
2025 CALIFORNIA EMERGENCY AND STANDBY POWER CODE
2025 CALIFORNIA ENERGY CODE
2025 CALIFORNIA FIRE CODE
2025 CALIFORNIA GREEN BUILDING CODE
2025 CALIFORNIA MECHANICAL CODE
2025 CALIFORNIA PLUMBING CODE
2024 NFPA 37 "Installation and Use of Stationary and Gas Turbines"
2025 NFPA 110 "Emergency and Standby Power Systems"

PROPERTY DATA

APN: 416-140-032-2
Property Address: 100 Austin Court, San Pablo, CA 94806-3084
Acreage: 1.29 acres / 56,192 sf
Building Size: 40,360 sf

DEFERRED PERMITS

The Following are Deferred Permits and are not a part of this Permit Set of Drawings:
1. NONE



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DESIGN, INC.
Electrical Engineering Consultants
1751 Cebrian Street
West Sacramento, CA 95691
916.375.0315 www.capcitydesign.com

Aug 11 2026



REVISIONS

No.	Description	Date

PROJECT NAME:

Contra Costa
Housing
Authority

PROJECT ADDRESS:

100 Austin Court
San Pablo, CA

SHEET TITLE:

Electrical Title Sheet

Project Number	26-0715
Date	07/15/2026
Drawn by	MKEG
Checked by	MKEG

TE1

Scale	As indicated
-------	--------------

GENERAL NOTES

1.

THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS.
2.

PROCURE REQUIRED PERMITS AND LICENSES. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES, ORDINANCES AND UTILITY COMPANIES.
3.

WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
4.

INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES (CEC, NFPA, CEC, CFC, COUNTY AND CITY).
5.

DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
6.

ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
7.

ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
8.

ALL DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP A.C., MOUNT ALL RECEPTACLE, TELEPHONE AND DATA OUTLETS AT +15" MIN (BOTTOM OF BOX) AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
9.

OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CEC AND ELECTRICAL CODES.
10.

ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
11.

ALL WIRING SHALL BE INSTALLED IN METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED IN WALL AND CEILING MAY BE ENT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR SLAB. INSTALL ALL CONDUITS IN ACCORDANCE WITH NECA STANDARDS OF INSTALLATION. MC CABLE IS ALLOWED ON THIS PROJECT.
12.

CONDUCTORS, #12 AND LARGER, SHALL BE STRANDED COPPER WITH THIN/THIN INSULATION, UNLESS OTHERWISE NOTED.
13.

PROVIDE WORKING CLEARANCE PER CEC 110.26. SERVICE PANEL, SUBPANELS, MOTOR AND HVAC DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
14.

PROVIDE A WARNING SIGN CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.
15.

CONTRACTOR SHALL SIZE ALL INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
16.

ALL TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED 100 AMPERES OR LESS SHALL BE RATED AT 60°C. ALL TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED OVER 100 AMPERES SHALL BE RATED AT 75°C PER CEC 110.14(C).
17.

BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATINGS TO BE USED IS LOWER THAN MAIN SERVICE RATINGS.
18.

CONTRACTOR SHALL PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN MULTIWIRE BRANCH CIRCUITS PER CEC 210.4(B).
19.

COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM. VERIFY EXACT AIC RATINGS WITH P64E PRIOR TO BID FOR ALL EQUIPMENT.
20.

MINIMUM COVERAGE FOR UNDERGROUND CONDUIT TO BE 24", UNLESS NOTED OTHERWISE. PROVIDE MINIMUM OF 12" SEPARATION BETWEEN THE POWER AND ALL LOW VOLTAGE CONDUITS. COMPLY WITH 2022 CEC 300.5.
21.

ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER CEC 230.8.

SCOPE OF WORK

1.

(E) GENERATOR TRANSFER SWITCH & PANEL 'EM' TO BE DISCONNECTED AND REMOVED. TO BE REPLACED WITH NEM.
2.

(E) PANEL 'DP' TO BE DISCONNECTED AND REMOVED. ALL (E) LOADS TO BE RECONNECTED TO (N) PANEL 'DP'. REUSE ALL (E) CONDUIT & WIRE.
3.

INSTALL (N) GENERATOR, TRANSFER SWITCH AND NEM PANEL 'EM. CONNECT (E) LOADS TO PANEL AS INDICATED ON SHEET E1.1 PANEL SCHEDULE.

SYMBOLS LIST

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED IN CEILING
	LIGHTING FIXTURE, RECESSED MOUNTED IN CEILING
	LIGHTING FIXTURE, SURFACE MOUNTED ON WALL
	LIGHTING FIXTURE, RECESSED, T-BAR LAY-IN OR FLANGED IN CEILING
	LIGHTING FIXTURE, SURFACE MOUNTED ON CEILING
	STRIP LIGHTING FIXTURE, SURFACE OR CHAIN HUNG ON CEILING
	EXIT LIGHT FIXTURE, WALL MOUNTED WITH ARROWS AS SHOWN
	EMERGENCY LIGHT
A	FIXTURE TAG - 'A' DENOTES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE
	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V AT +48" MAX (TOP OF BOX)
	THREE WAY TOGGLE SWITCH 20A, 120-277V AT +48" MAX (TOP OF BOX)
	SUBSCRIPT DENOTES OUTLET OR FIXTURE CONTROLLED AT +48" MAX (TOP OF BOX)
	DIMMING SWITCH 20A, 120-277V AT +48" MAX (TOP OF BOX)
	SINGLE OCCUPANCY SENSOR SWITCH WALL MOUNTED AT +48" MAX (TOP OF BOX), N LIGHT #NSX2PWH 120/277V. 'D' DENOTES DIMMER
	DUAL LEVEL OCCUPANCY SENSOR SWITCH WALL MOUNTED AT +48" MAX (TOP OF BOX), N LIGHT #NSX2PWH 120/277V. 'D' DENOTES DIMMER
	DUAL TECHNOLOGY OCCUPANCY SENSOR LIGHT #NCPDPT9(RLB) OR EQUAL
	DIMMING/RELAY PACK, 16A 120/277V, WITH 0-10VDC DIMMING, ACUITY #nPP16D
	PLUG LOAD/RELAY PACK, 16A 120/277V, ACUITY #nPP20PL
	FOURPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX)
	DUPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX)
	MOUNT OUTLET ABOVE COUNTER OR BACKSPASH
	DUPLEX RECEPTACLE OUTLET 20A, 125V, CEILING MOUNTED
	208V 3 PH RECEPTACLE OUTLET
	208V 1 PH RECEPTACLE OUTLET
	DUPLEX RECEPTACLE FLOOR OUTLET 20A, 125V FLUSH IN FINISH FLOOR WITH BRASS TRIM
	DUPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX), ISOLATED GROUND
	TELEPHONE/COMPUTER OUTLET WALL/FLOOR MOUNTED/STUB 3/4" C-MT TO ABOVE ACCESSIBLE CL6
	DATA/TV OUTLET WALL/FLOOR MOUNTED/STUB 3/4" C-MT TO ABOVE ACCESSIBLE CL6
	MAIN SWITCHBOARD
	LIGHTING OR DISTRIBUTION PANEL
	TERMINAL CABINET
	JUNCTION BOX
	PULL BOX
	MOTOR STARTER, SEE MP45. CONNECT AS REQUIRED
	HEAVY DUTY SAFETY TYPE DISCONNECT SWITCH, SIZE & NEMA TYPE AS REQUIRED, F=FUSED
	MOTOR - MP45
	EXHAUST FAN - MP45
	MECHANICAL EQUIPMENT I.D. TAG - MP45
	FLAG NOTE SHOWN ON SAME SHEET
	CIRCUIT CONCEALED IN CEILING OR WALL
	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
	EXISTING CIRCUIT
	LOW VOLTAGE CABLE
	HOME RUN TO PANELBOARD OR TERMINAL CABINET
	DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2" C, CURVED HATCH DENOTES EQUIPMENT GROUND, DOT DENOTES ISOLATED GROUND, OTHERS AS NOTED
	TELEPHONE TERMINAL BOARD "TTB": 4'x8'x3/4" PLYWOOD BACKBOARD WITH FOURPLEX RECEPTACLE & (1) #6 GND, UON

NOTE:
SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CL6	CEILING
(E)	EXISTING
EM	DENOTES EMERGENCY FIXTURE. PROVIDE WITH 90-MINUTE BATTERY BACK-UP BALLAST, SEE LIGHTING PLANS FOR LOCATIONS AND QUANTITIES.
GFCl	GROUND FAULT CIRCUIT INTERRUPT
I6	ISOLATED GROUND
MP45	SEE MECHANICAL PLANS & SPECIFICATIONS
MT	EMPTY CONDUIT WITH NYLON PULL ROPE
(N)	NEM
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS
NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PFB	PROVISION FOR FUTURE BREAKER
PNL	PANELBOARD
(R)	RELOCATED
TTB	TELEPHONE TERMINAL BOARD
(TYP)	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF, RECEPTACLE COVERS SHALL BE "WEATHERPROOF WHILE IN USE". (CEC 406.9)



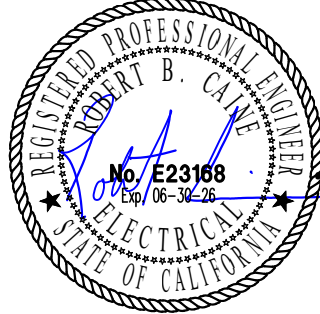
CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrarian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

Aug 11 2026



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

PCC #1 07/01/2026

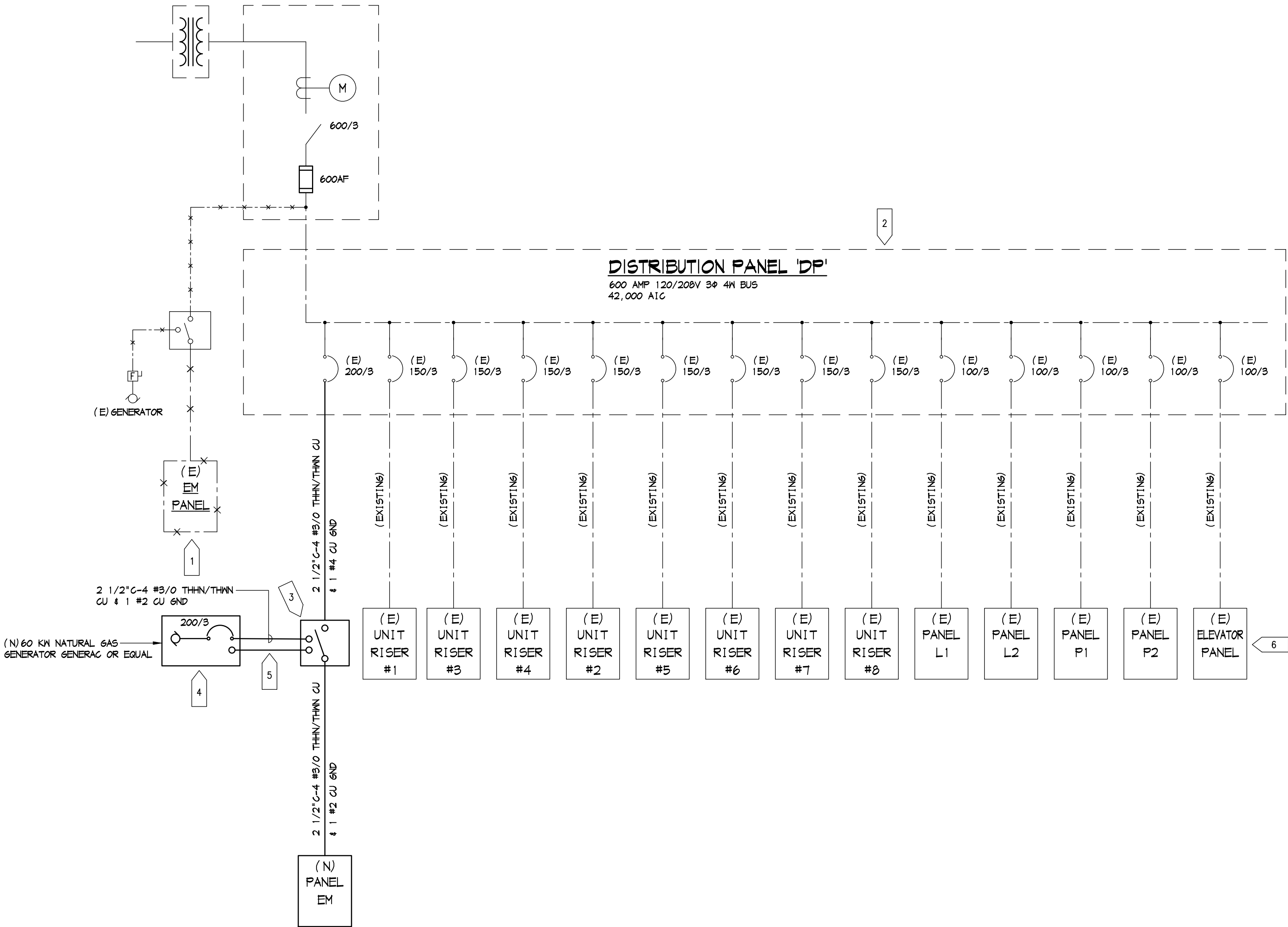
sheet title

SYMBOLS LIST
GENERAL NOTES
PANEL SCHEDULES

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E1.0

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(E) ONE LINE DIAGRAM

NOT TO SCALE

- 1 EXISTING 'EM' PANEL. TRANSFER SWITCH AND GENERATOR TO BE DISCONNECTED AND REMOVED. (E) CIRCUITS IN PANEL 'EM' TO BE REROUTED TO (N) PANEL 'EM'.
- 2 EXISTING DISTRIBUTION PANEL TO BE DISCONNECTED AND REPLACED WITH NEW 600 AMP PANEL. RECONNECT ALL (E) LOADS AS NEEDED. REUSE ALL (E) CONDUIT & WIRE. ADD NEW AS NEEDED TO COMPLETE RECONNECTION TO NEW PANEL.
- 3 PROVIDE (N) 200 AMP 120/208V 3 4W AUTO TRANSFER SWITCH.
- 4 PROVIDE (N) NATURAL GAS GENERATOR. GENERAC #
- 5 PROVIDE 1" C-MT FOR CONTROLS FROM GENERATOR TO TRANSFER SWITCH
- 6 (E) ELEVATOR PANEL FEED TO BE REROUTED TO (N) PANEL 'EM'

(N) PANEL 'EM'											
VOLTAGE: 120/208V 3Φ 4W				MOUNTING: SURFACE				KVA: 41.24			
BUS: 225 AMP				TYPE: MLO				CURRENT: 115 AMPS			
LOAD				KVA	CB	NO		KVA	CB	NO	LOAD
ELEVATOR				32.0	100	1	1	0.02	20	2	TIME CLOCK
						3	4	0.20		4	FIRE ALARM PANEL
						5	6	1.2		6	BALCONY LIGHTS
GENERATOR CONTROLS				0.02	20	7	8	1.2		8	WEST STAIR LIGHTS
GENERATOR BLOCK HEATER				1.8	20	9	10	1.2		10	
SPARE					20	11	12	1.2		12	BALCONY LIGHTS
					20	13	14	1.2		14	EAST STAIR LIGHTS
					20	15	16	1.2		16	
						17	18			18	SPACE
						19	20			20	
						21	22			22	
						23	24			24	
						25	26			26	
						27	28			28	
						29	30			30	

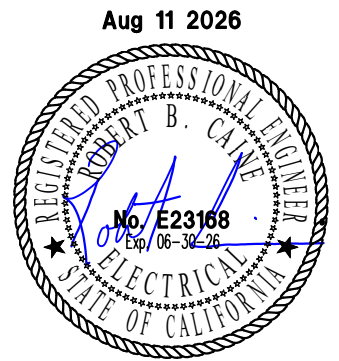


CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

PCG #1 07/01/2026

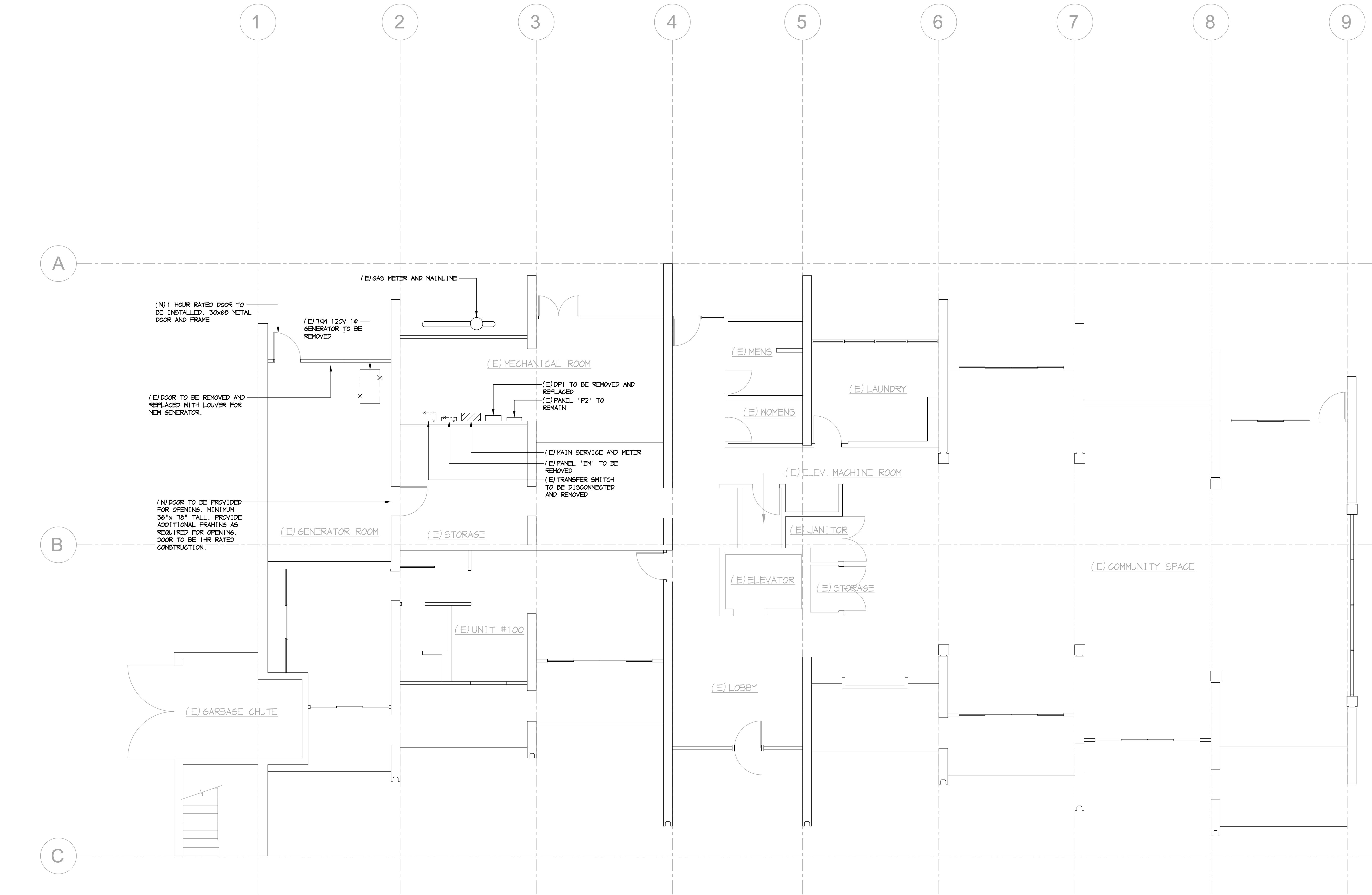
sheet title

SYMBOLS LIST GENERAL NOTES PANEL SCHEDULES

job no 2026-002
date 03/16/2026
designer TB
drafter KB

E1.1

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DEMOLITION FLOOR PLAN - POWER

SCALE: 3/16" = 1'-0"



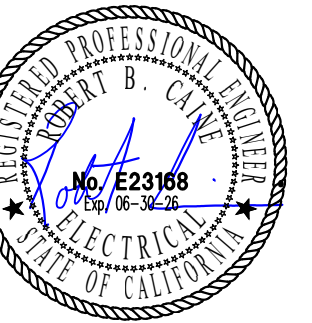
CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

Aug 11 2026



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CONTRA COSTA HOUSING AUTHORITY

revisions

PCG #1 07/01/2026

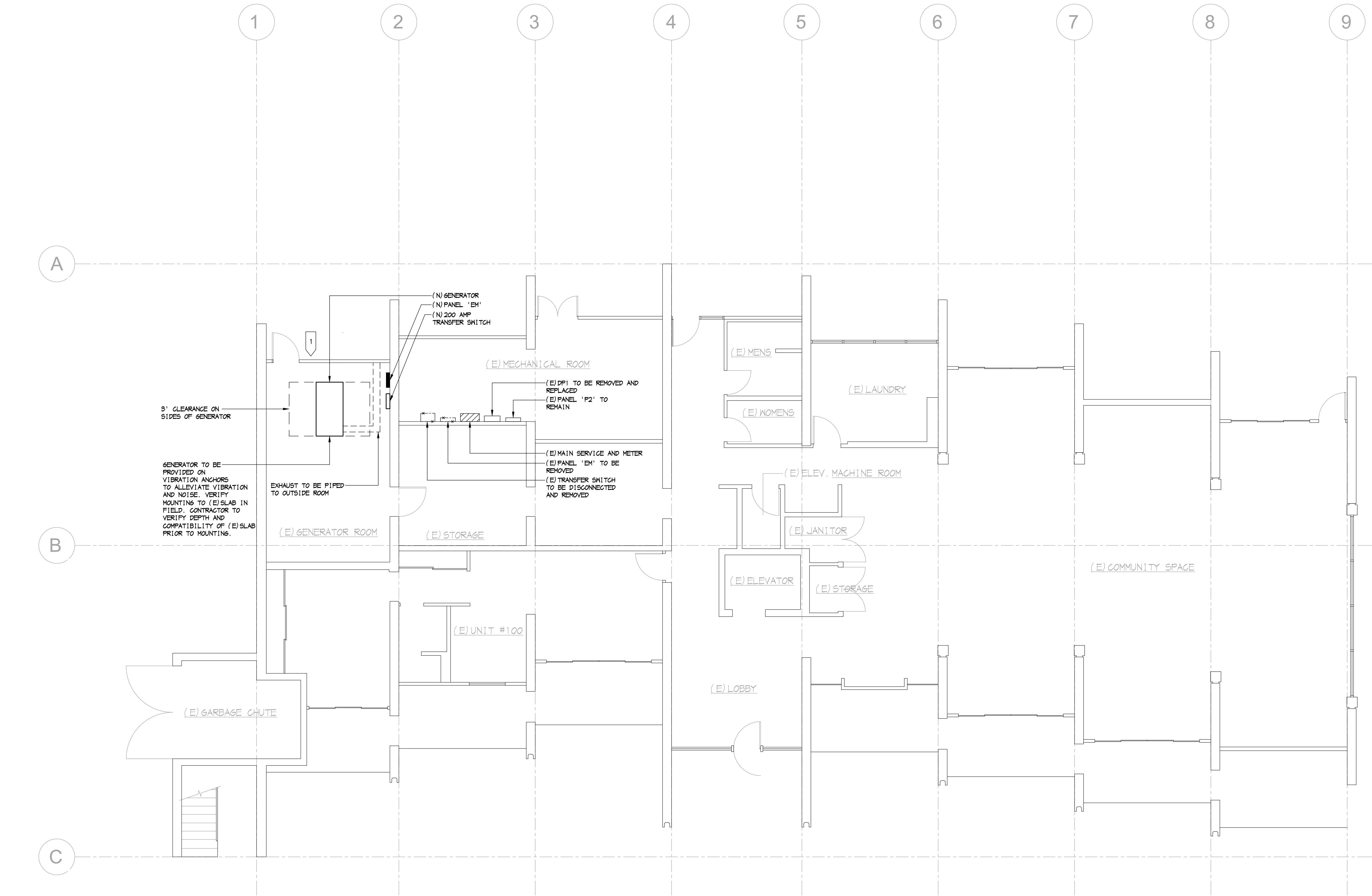
sheet title

DEMOLITION FLOOR PLAN - POWER

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E2.0

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SHEET NOTES

1 FINISHED OUTSIDE WALL TO BE (2) LAYERS 5/8" SHEET ROCK ON INSIDE STUCCO ON OUTSIDE WALL.



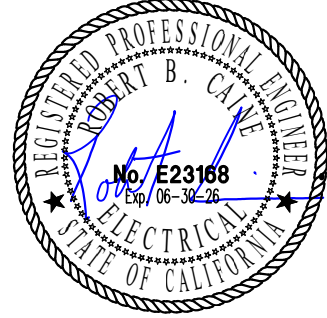
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Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
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Aug 11 2026



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revisions

PCG #1 07/01/2026

sheet title

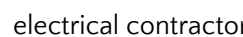
FLOOR PLAN - POWER

job no 2026-002
date 03/16/2026
designer TB
drafter KB

FLOOR PLAN - POWER

SCALE: 3/16" = 1'-0"

E3.0



CONTRA COSTA
HOUSING
AUTHORITY

E3.1

Automatic Transfer Switch Owner's Manual

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SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

Standby Power Rating

70 kW, 88 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact your Generac Industrial dealer or sales representative for details.

- 

UL2200, UL1236, UL489



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



IBC 2015, IBC 2018, ASCE 7-10, ASCE 7-16, ICC-ES, AC-156 (2018)

Powering a Smarter World

For over 65 years, Generac has been at the forefront of power generation, pioneering innovative solutions and unparalleled manufacturing excellence. At the heart of our reputation for superior quality lies our commitment to meticulously designing and manufacturing key components of our generators—ranging from alternators and enclosures to base tanks, control systems, and cutting-edge communications software.

Generac's gensets stand out for their unparalleled versatility and reliability. Engineered to offer a wide range of options and configurations, they are tailored to meet the unique demands of virtually any application, seamlessly adapting to its complexity. Our commitment to reliability drives us to globally source only the most dependable engines, selected through stringent criteria for optimal performance under the toughest industrial conditions.

Beyond the sale, Generac's dedication to our customers extends to comprehensive service support, for peace of mind and reliability long after your purchase. Our commitment is to not only provide state-of-the-art power solutions but also enduring success and satisfaction of our customers through ongoing support and service excellence.

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan and Belt Guards
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Critical Silencer
- Oil Temperature Sender with Alarm
- Air Filter Restriction Sensor

FUEL SYSTEM

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff
- Fuel Inlet Pressure Sensor
- Vaporizer for Propane Liquid

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Zone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty
- E-Stop

ENCLOSURE (IF SELECTED)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM

DSE G8001 CONTROLLER



KEY FEATURES

- Advanced PLC Functionality
- Multi-Purpose PIDs
- Virtual Inputs
- On-Screen Mimic (SLDs)
- Multiple Application Support
- Multi-Level Pin Protected Front Panel Editor
- Integral LCD Display Heater
- Enhanced High-Resolution 240 x 128 Pixel Display
- Single Generator Control
- Latest ECU/ECM Support
- Touch Screen Panel PC Support
- Zero Sequence Voltage Protection
- Integral Gasket (IP65 protection)
- Temperature Rating -22 °F to 122 °F (-30 °C to 50 °C)

GOVERNOR FUNCTIONALITY

- Speed Control through ECM Integration
- Soft Start Ramping (Multiple Steps)

STANDARD PROTECTIONS

- Low Coolant Level
- High/Low Coolant Temperature

12 Digital Inputs

- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current
- Over Load
- Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (F² Algorithm)
- Ground Fault

CONTROL PANEL

- Auto Off/Manual
- Indication Through Display Screen
- Audible Alarm and Silence
- Not in Auto Indication

VOLTAGE REGULATION

- Digital Control
- Three-Phase Sensing
- Negative Power Limit
- Loss of Sensing Protection
- Fault Protection (F² Function)
- High Voltage Limit
- Low Voltage Limit
- Maximum Power Limit
- ±0.5% Voltage Regulation

CONNECTIONS (ACTUAL I/O MAY VARY DUE TO CONFIGURATION)

- 4 Analog Inputs

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Fluid Containment Pan
- Engine Coolant Heater with Shutoff Valves
- Oil Heater
- Radiator Dust Adapter (Open Set Only)
- Two-Stage Heavy Duty Air Cleaner
- Critical Grade Silencer
- Baseframe Cover/Rotect Guard
- Crankcase Ventilation Heater (Recommended at Operating Temperatures of 0° F)

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
- 8 Position Load Center
- IBC Seismic Certification (Contact Factory for Availability)
- OSHPO Seismic Certification (Contact Factory or Availability)
- Elevated Stand
- Past Vibration Isolators
- Spring Vibration Isolators

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- Ground Fault Annunciator
- 120 V GFCI Outlets
- 100 dB Alarm Horn
- Damper Alarm Contacts (with Motorized Dampers Only)
- Spare Inputs/Outputs

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Permanent Magnet Excitation
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

ENCLOSURE

- Weather Protected Enclosure
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 105 MPH Wind Load Rating (Contact Factory for Availability)
- Enclosure LED Lighting Kit
- Enclosure Heaters (with Motorized Dampers Only)
- Door Open Alarm Horn
- High Velocity Hurricane Zone (HHVZ)

REMOVAL MONITORING AND CONTROL

- Generac Link Manager

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- 3rd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

CUSTOMER PORTS

- Ethernet
- 2 RS-485
- 2 USB
- CANbus

CODES AND STANDARDS

- CE
- NFPA 110 Capable

MORE FEATURES

- Built-in Governor
- Digital AVR Support
- Multiple Language Support
- Three-Phase Generator Sensing and Protection
- Three-Phase Bus Sensing
- Generator Current, Protection and Power Monitoring
- Configurable Timers
- Integrated SNMP
- Data Logging
- PC Configuration
- DSENet® (Expansion Support)
- Flexible I/O (Inputs/Outputs)
- Automatic and Front Panel Breaker Control
- Power-Save Mode

GENERAC LINK MANAGER



- Generac Link Gateway
 - Historical trending, alarming and alerts
 - Cellular communications to software cloud
 - 2 Serial Ports: CAN, RS-485
 - 2 TCP Ports: Ethernet 1, Ethernet 2
 - GPS
 - Antenna Connectors: LTE, GPS
 - SIM Card: Rugged ZFF
 - Flexible subscription options for Generac Link Manager

ENGINEERED OPTIONS

CONTROL SYSTEM

- Battery Disconnect Switch

GENERATOR SET

- Special Testing
- Battery Box

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in³ (L)	270.4 (4.43)
Bore - in (mm)	4.5 (114.3)
Stroke - in (mm)	4.28 (107.95)
Compression Ratio	9.1:1
Intake Air Method	Turbocharged
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25

Lubrication System

Oil Pump	Gear Driven
Oil Filter Type	Full Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	21 (20)

ALTERNATOR SPECIFICATIONS

Standard Model	K0080124Y21
Poles	4
Field Type	Revolving
Insulation Class - Motor	H
Insulation Class - Stator	H
Total Harmonic Distortion (THD)	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation

Synchronous Brushless	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed (RPM)	2,100
Fan Diameter - in (mm)	22 (533)

Fuel System

Fuel Type	Natural Gas & Propane Vapor; Propane Liquid
Fuel Control	Electronic
Fuel Shutoff	Dual
Operating Fuel Pressure (NG) -	5 - 14 (1.2 - 3.5)
in H ₂ O (kPa)	
Operating Fuel Pressure (LP) -	7 - 14 (1.2 - 3.5)
in H ₂ O (kPa)	

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 016197058Y
Battery Voltage	12 VDC
Ground Polarity	Negative (-)

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

OPERATING DATA

POWER RATINGS

Standby			
Single-Phase 120/240 VAC @1.0pf	70 kW/70 kVA	Amps: 292	
Three-Phase 120/208 VAC @0.8pf	70 kW/88 kVA	Amps: 243	
Three-Phase 277/480 VAC @0.8pf	70 kW/88 kVA	Amps: 105	
Three-Phase 346/600 VAC @0.8pf	70 kW/88 kVA	Amps: 84	

STARTING CAPABILITIES (kVA)

kVA vs. Voltage Dip			
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%
A0080044N21	58	K0080124Y21	132
A0100044N21	67	K0100124Y21	171

FUEL CONSUMPTION RATES*

Natural Gas - scfh (m³/hr)		Liquid Propane - Liquid gal/hr (L/hr)	
Percent Load	Standby	Percent Load	Standby
25%	414 (11.7)	25%	2.5 (9.6)
50%	632 (18)	50%	5.1 (19.1)
75%	882 (25)	75%	7.6 (28.7)
100%	1184 (33)	100%	10.1 (38.5)

COOLING

Standby	
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m³/min)
Coolant Flow	gpm (L/min)
Coolant System Capacity	gal (L)
Maximum Operating Ambient Temperature	°F (°C)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 01992705SD
Maximum Radiator Backpressure	in H ₂ O (kPa)

COMBUSTION AIR REQUIREMENTS

Standby	
Flow at Rated Power - cfm (m³/min)	197 (4.4)

ENGINE

Standby		EXHAUST	
*Rated Engine Speed	RPM	Exhaust Flow (Rated Output)	cfm (m³/min)
Horsepower at Rated kW**	hp	Maximum Exhaust Back Pressure - (Post Silencer)	inHg (kPa)
Piston Speed	ft/min (m/min)	Exhaust Temperature	°F (°C)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

DIMENSIONS AND WEIGHTS*

OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	92.9 (2,359.7) x 39.5 (1,003) x 46.1 (1,171.4)
Weight - lbs (kg)	1,967 - 2,250 (892-1,021)

WEATHER PROTECTED ENCLOSURE

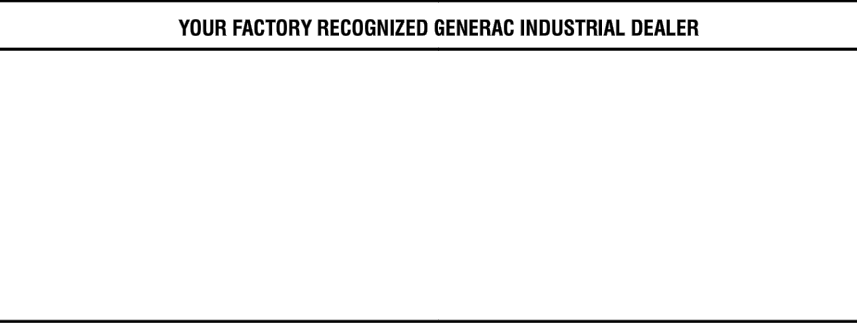
L x W x H - in (mm)	120.9 (3,076) x 40.5 (1,027.7) x 68.4 (1,739)
Weight - lbs (kg)	Steel: 2,705-2,989 (1,227-1,356) Aluminum: 2,353-2,638 (1,068-1,196)

LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	120.9 (3,076) x 40.5 (1,028) x 68.4 (1,739)
Weight - lbs (kg)	Steel: 2,874-3,158 (1,304-1,433) Aluminum: 2,502-2,785 (1,115-1,263)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER



Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

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Rev. C 3/1/2026

CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrarian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

 PCC #1 07/01/2026

sheet title

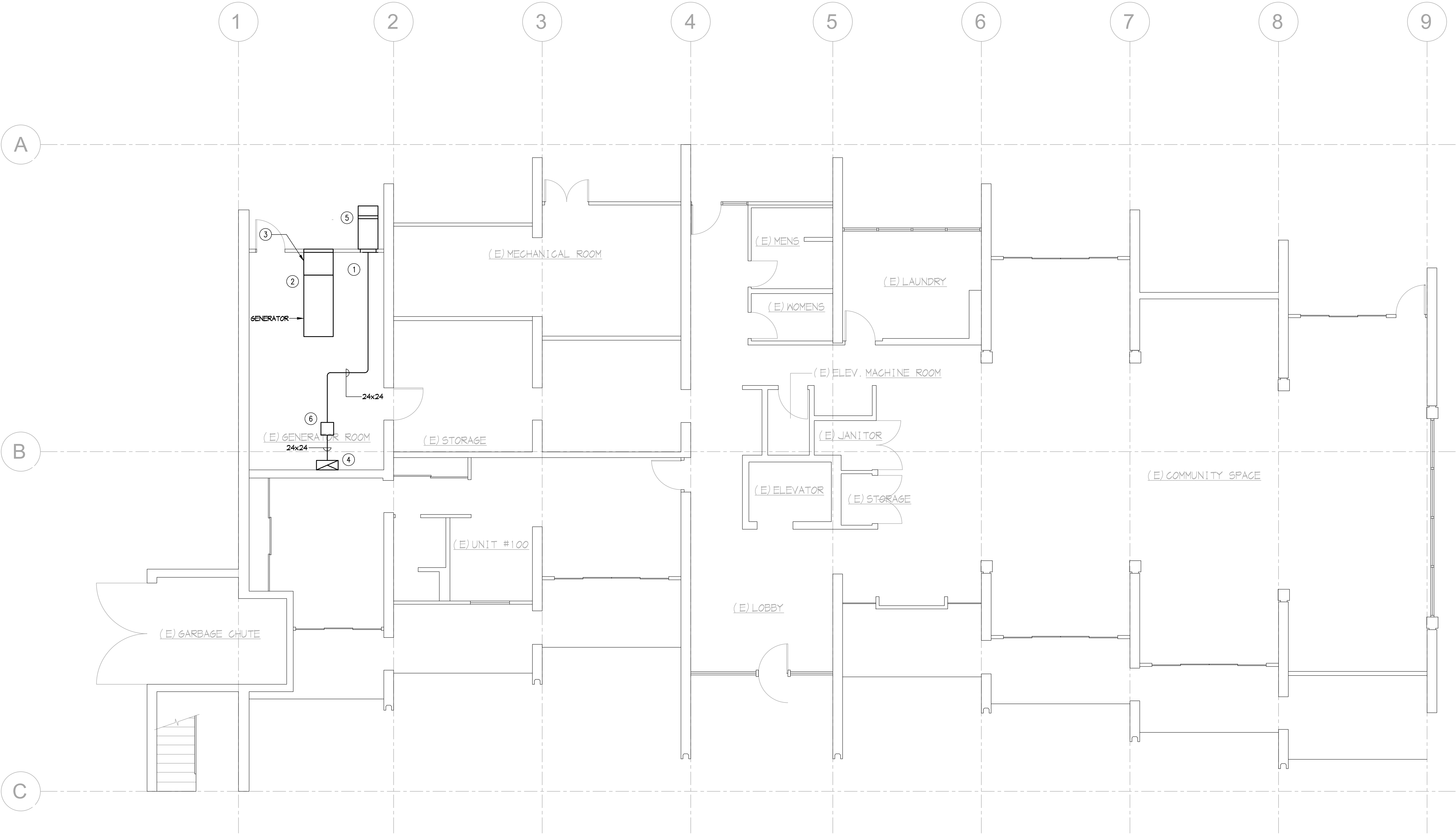
GENERATOR SPECS

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E4.0

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FLOOR PLAN - MECHANICAL



- SHEET NOTES
- ①

DUCT RADIATOR TO NEW LOUVER. DOOR TO BE REPLACE WITH LOUVER. 4343 CFM INTAKE 17.9 SQ FT. FREE AREA FOR LOUVER.
- ②

PROVIDE FLEX CONNECTION ON RADIATOR TO (R) SHEET METAL TRANSITION
- ③

NEW SHEET METAL TRANSITION TO LOUVER AND RADIATOR
- ④

18x36 FANHIRST DUCT 12" ABOVE FINISHED FLOOR. PROVIDE 1/4" x 1/4" GALVANIZED MESH AT OPENING. SECURE TO WALL.
- ⑤

24x24x60 EXHAUST DUCT WITH 45 ANGLE. PROVIDE 1/4"x1/4" GALVANIZED MESH AT OPENING. SECURE TO WALL.
- ⑥

"GREENHECK" MODEL SQ-160 DIRECT DRIVE IN-LINE FINE. 4500 CFM. 6" S.P. PROVIDE "VARI-GREEN" CONTROLS. REMOTE DIAL. TRANSFORMER. 1.8 BHP 2.0 HP 208/14/60HZ. PROVIDE DISCONNECT SWITCH. PROVIDE NEOPRENE ISOLATER HANGING KIT. SUSPEND FROM CEILING. PROVIDE FLEX CONNECTIONS ON EACH SIDE OF FAN. FAN TO RUN WHEN GENERATOR RUNS. PROVIDE RELAYS FOR INTERLOCK AND FAN START.



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916.375.0135
916.375.0773 fax
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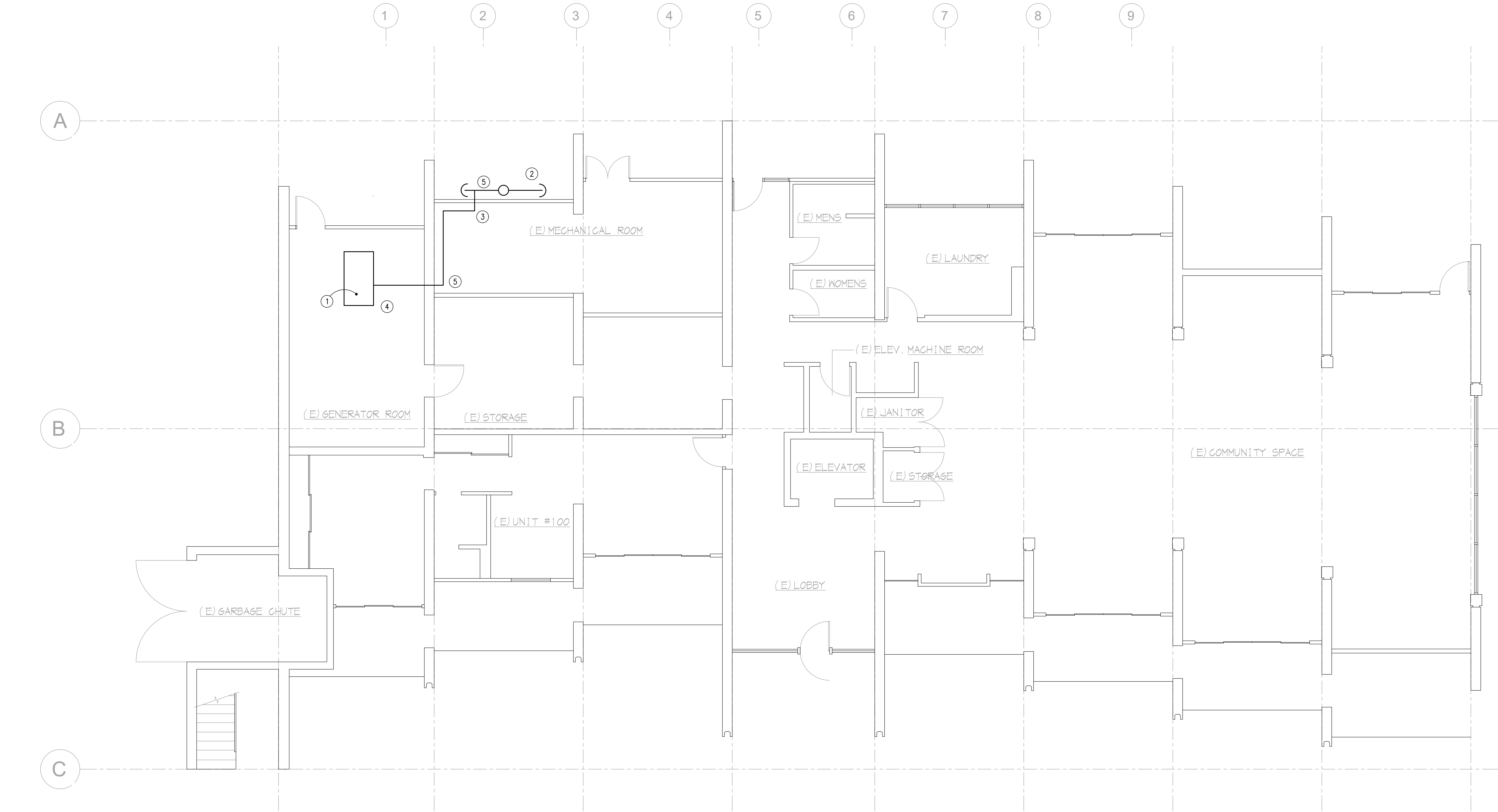
FLOOR PLAN - MECHANICAL

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

M1.0

SCALE: 3/16" = 1'-0"

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- | SHEET NOTES | |
|-------------|---|
| ① | GENERATOR 1164 CFH NATURAL GAS. |
| ② | GAS METER LOCATION. CONTRACTOR TO CONFIRM CAPACITY OF ADDITIONAL LOAD (1164 CFH) ON METER |
| ③ | NEW 2" GAS-LINE CONNECT TO (E) METER. LINE SIZED PER TABLE 1215.2(1). 60FT COLUMN 2025 CPG. |
| ④ | NEW 2" GAS CONNECT TO (N) GENERATOR WITH SHUT-OFF GLOCK, DIRT LEG AND FLEXIBLE CONNECTION. |
| ⑤ | PROVIDE CONCRETE BORES AS REQUIRED FOR ROUTING OF NEW GAS PIPING. |



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Electrical Engineering
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1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

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CONTRA COSTA
HOUSING
AUTHORITY

revisions

REVISION	DATE	BY
1	07/01/2026	TB

sheet title

FLOOR PLAN -
PLUMBING

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

P1.0

FLOOR PLAN - PLUMBING

SCALE: 3/16" = 1'-0"