MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PHASE 2 - ISSUED FOR CONSTRUCTION (IFC) REV #2 - 2026.09.01

PROJECT DIRECTORY

OWNER/ CLIENT

MORONGO RESORT AND CASINO
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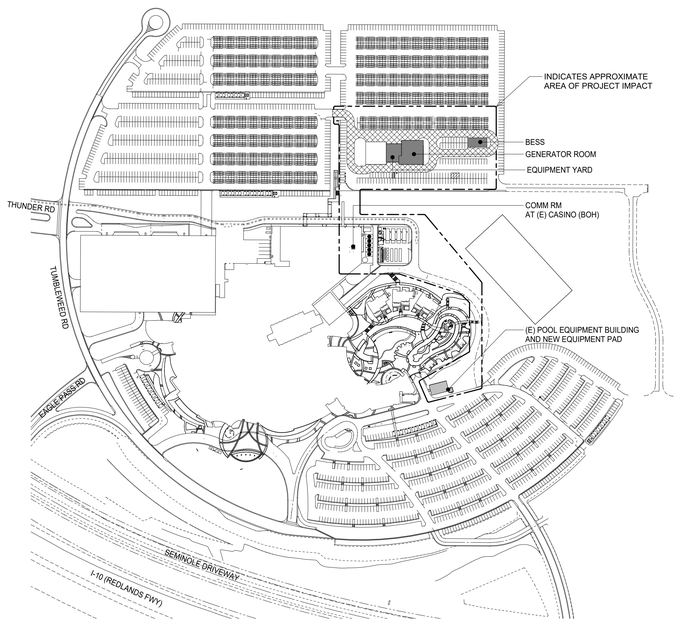
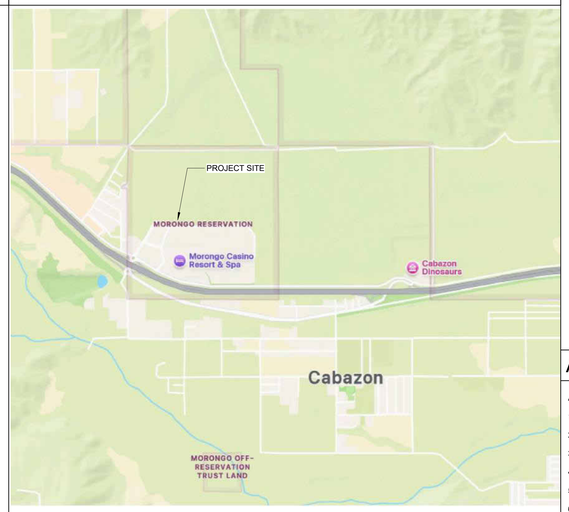
LOCATION MAP



VICINITY MAP



NORTH

BUILDING CODE DATA

TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	PRIMARY OCCUPANCY: GROUP F-1 (COGEN FACILITY) ACCESSORY OCCUPANCY: GROUP S-1 (BATTERY ROOMS) AND S-2 FOR THE REST AREAS
TOTAL OCCUPANCY (CBC CHAPTER 3)	THIS STRUCTURE IS PRIMARILY SELF RUNNING PLANT WITH NO OCCUPANTS OTHER THAN TRANSIENT USE OF THE CONTROL ROOM. FOR PURPOSES OF THE EGRESS CALCULATIONS OCCUPANT LOAD FACTORS FOR EACH SPACE HAVE BEEN INDICATED, HOWEVER, THE TOTAL LOAD OF THE BUILDING WILL NEVER EXCEED 10 OCCUPANTS.
SPECIAL USE AND OCCUPANCY (CBC CHAPTER 4)	NA
SPECIAL PROVISIONS (2022 CBC CHAPTER 510)	503.1.1 SPECIAL INDUSTRIAL OCCUPANCIES
BUILDING HEIGHT	
ALLOWED:	55 FEET, 3 STORIES
PROPOSED:	30 FEET, 2 STORIES
BUILDING AREA	
LEVEL 1 AREA:	5,750 SF
MEZZANINE AREA:	958 SF
PROPOSED BUILDING AREA:	6,269 SF
EQUIPMENT YARD AREA:	2,900 SF
BESS:	2,016 SF

OCCUPANT LOAD:

OCCUPANT LOAD IS BASED ON OPERATIONAL STAFFING FOR A CONTROLLED-ACCESS COGEN FACILITY. THE PEAK EXPECTED OCCUPANCY IS APPROXIMATELY 5–10 PERSONS PER SHIFT, INCLUDING OPERATORS AND MAINTENANCE PERSONNEL. THE FACILITY IS NOT PUBLICLY ACCESSIBLE.

RISK CATEGORY	II

FIRE-RESISTANCE RATING REQUIREMENTS

BUILDING ELEMENT (PER TABLE 601)	FIRE-RESISTANCE RATING (HRS):
PRIMARY STRUCTURAL FRAME	0
EXT. BEARING WALLS	0
INT BEARING WALLS	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

LIFE SAFETY SYSTEMS

SPRINKLERS:	YES
STANDPIPES:	NO
FIRE ALARM:	YES
SMOKE DETECTION:	YES

PROJECT SUMMARY

PHASE 2 SHALL INCLUDE THE DESIGN OF AN APPROXIMATELY 8,400 SF (MAX.) NEW COMBINED HEATING AND POWER (CHP) PROJECT, CONTAINING AN EQUIPMENT YARD, GENERATOR ROOM, CONTROL ROOM, ACCESSIBLE UNISEX RESTROOM, MAIN DISTRIBUTION FRAME ("MDF"), JANITOR'S CLOSET, ELECTRICAL/BATTERY ROOMS AND A MEZZANINE STORAGE LEVEL. THE ROOMS SHALL BE ACOUSTICALLY SEPARATED FROM THE ADJACENT GENERATOR BY WALLS AND CEILINGS WITH A MINIMUM SOUND TRANSMISSION COEFFICIENT (STC) OF 36.

• THE EQUIPMENT YARD IS SIZED TO ACCOMMODATE THE UREA TANKS, AIR COMPRESSORS AND A FUTURE VOLTAGE REGULATOR.

• THE GENERATOR ROOM IS A COLUMN FREE HIGH BAY SPACE CAPABLE OF PERMITTING 8' CLEAR HEIGHT MEZZANINE STORAGE AREA OVER HABITABLE ANCILLARY SUPPORT ROOMS.

• THE ELECTRICAL ROOM IS DESIGN TO HAVE A MINIMUM CLEAR HEIGHT OF 12' CLEAR. SPACES SHALL BE CONSTRUCTED TO EXCEED TITLE 24 REQUIREMENTS FOR INSULATIVE VALUES TO MEET THE ENERGY GOALS.

• A SEPARATE BATTERY ENERGY STORAGE SYSTEM (BESS) YARD ENCLOSED WITH CHAIN-LINK FENCING AND ACCESS GATES, PROTECTED BY BOLLARDS, AND LOCATED WITHIN THE EXISTING PARKING LOT ADJACENT TO THE NEW BUILDING.

• PROVIDE POOL HEATING HOT WATER SUPPLY SYSTEMS AND ASSOCIATED ANCILLARY PUMPS FROM THE NEW GENERATOR ROOM INTO THE EXISTING POOL EQUIPMENT BUILDING.

• PROVIDE A NEW TELECOMMUNICATIONS ROOM INSIDE THE EXISTING CASINO BACK-OF-HOUSE (BOH) TO SERVICE NEW SYSTEMS.

• PLANT TO BE CONSTRUCTED IN A MANNER TO ALLOW FOR FUTURE EXPANSION TO THE EAST OF APPROXIMATELY 2,100 SF GENERATOR ROOM AND 300 SF ELECTRICAL ROOM EXPANSIONS.

• PROVIDE A CONTINUOUS WATER RESISTIVE BARRIER. THE WATER RESISTIVE BARRIER MUST RESIST LIQUID (BULK) WATER FROM BEING ABSORBED INTO THE BACK-UP WALL ASSEMBLY IF WATER LEAKS, PENETRATES, OR SEEPS PAST THE EXTERIOR ENCLOSURE CLADDING SYSTEM, WHERE APPLICABLE.

THE NEW BUILDING EXTERIOR ARCHITECTURE SHALL MATCH THE EXISTING SCE UTILITY YARD CASINO IN MATERIALS AND CHARACTER.

APPLICABLE CODES

APPLICABLE CODES & STANDARDS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. CALIFORNIA BUILDING CODE (CBC) 2022
2. CALIFORNIA FIRE CODE (CFC) 2022
3. TITLE 24, PART 1, 2022 BUILDING STANDARDS ADMIN. CODE
4. TITLE 24, PART 3, 2022 CALIFORNIA ELECTRICAL CODE
5. TITLE 24, PART 4, 2022 CALIFORNIA MECHANICAL CODE
6. TITLE 24, PART 5, 2022 CALIFORNIA PLUMBING CODE
7. TITLE 24, PART 6, 2022 CALIFORNIA ENERGY CODE
8. TITLE 24, PART 9, 2022 CALIFORNIA FIRE CODE
9. TITLE 24, PART 11, 2022 CALIFORNIA GREEN BUILDING STANDARDS
10. TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL
11. AMERICAN WITH DISABILITIES ACT (ADA) LATEST EDITION

SEPARATE SUBMITTALS

DEFERRED SUBMITTALS:

I. BATTERY ENERGY STORAGE SYSTEM (BESS) - EQUIPMENT AND MANUFACTURER DATA.

NOTE: FOUNDATIONS, EQUIPMENT PADS (PER STRUCTURAL), FENCING, AND ASSOCIATED SITE WORK (SEE CIVIL) ARE INCLUDED IN THIS PERMIT SUBMITTAL AND ARE NOT PART OF THE DEFERRED SUBMITTAL.

II. STRUCTURAL PIPING SUPPORTS AND MOUNTINGS (WALL AND CEILING) WITHIN THE POOL BUILDING, CASINO BACK-OF-HOUSE AREAS, AND EQUIPMENT YARDS (EXISTING AND NEW ADJACENT TO COGEN).

III. SHIP LADDERS AND CATWALKS AT COGEN ROOF FOR ACCESS TO ELEVATED ROOF EQUIPMENT.

IV. EQUIPMENT SEISMIC ANCHORAGE CALCULATIONS AND DETAILS FOR FLOOR, ROOF, WALL, AND CEILING-MOUNTED EQUIPMENT, INCLUDING MANUFACTURER-FURNISHED ANCHORAGE.

V. CANOPY SEISMIC ANCHORAGE DESIGN, CALCULATIONS, AND DETAILS.

VI. SAFETY SWING GATE ANCHORAGE DESIGN, CALCULATIONS, AND DETAILS.

DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION.

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
REVIEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
COVER PAGE

Sheet No.
G-001

8/31/2026 2:27:32 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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IM105	P&ID POOL HEATING WATER
IM106	P&ID LOW TEMPERATURE WATER
IM107	P&ID LTW COOLERS
IM108	P&ID EXHAUST
IM109	P&ID LUBE OIL & WASTE OIL
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IC-825004-0100C	NETWORK ADDRESSES
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IC-825004-01001	BILL OF MATERIALS
IC-825004-01002	PANEL DIMENSIONS TOP & BOTTOM
IC-825004-01003	PANEL BACK PLANE LAYOUT
IC-825004-01301	PANEL BILL OF MATERIAL
IC-825004-01302	PANEL DIMENSIONS TOP & BOTTOM
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IC-825004-02001	PANEL BILL OF MATERIAL
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HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIAMETER
INCL	INCLUDE(D), (ION)
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
KJ	KEYED COLD JOINT
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
MAG	MAGNETIC
MAX	MAXIMUM
MECH	MECHANIC(AL)
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MSL	MEAN SEA LEVEL
MTL	METAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
O.F.C.I	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OTS	OPEN TO STRUCTURE
PERF	PERFORATE(D)
PL	PLATE
PLAM	PLASTIC LAMINATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REQ'D	REQUIRED
REV	REVISION(S), REVISED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCH	SCHEDULE
SC	SEALED CONCRETE
SD	STORM DRAIN
SHT	SHEET
SIM	SIMILAR
SP	SOLID SURFACE SHOWER PAN
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRY (ICAL)
T	PORCELAIN TILE
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICK(NESS)
TO	TOP OF
TOC	TOP OF CURB
TOS	TOP OF SLAB
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UON or UNO	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
W	WEST, WIDTH, WIDE
W/	WITH
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOFING
WWF	WELDED WIRE FABRIC

@	AT
ABV	ABOVE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE (HANDICAPPED)
A/C	AIR CONDITIONING
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BEL	BELOW
B/T	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BSMT	BASEMENT
C	COMPACT
CAB	CABINET
CB	CATCH BASIN
CIP	CAST-IN-PLACE
℄	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS/CONTINUE
CPT	CARPET(ED)
CT	CERAMIC TILE
DEMO	DEMOLISH/DEMOLITION
DEP	DEPRESSED
DF	DRINKING FOUNTAIN
DIAG	DIAGONAL
DIAM. DIA	DIAMETER (Ø)
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSCR	DESCRIPTION
DWG	DRAWING
E	EAST
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENC	ENCLOSE (URE)
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EXP	EXPOSED
EXT	EXTERIOR/EXTRUDE(D)
FA	FIRE ALARM
FAF	FLUID APPLIED FLOORING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FURNITURE, FIXTURES & EQUIP.
FF	FINISHED FLOOR
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR(ING)
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIREPROOF
FRP	FIBER REINFORCED PANEL
FT	FOOT
FTG	FOOTING
FUR	FURRED (ING)
GA	GAGE, GAUGE
GALV	GALVANIZED
GD	GRADE, GRADING
GFRC	GLASS FIBER REINFORCED CONC.
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GPDW	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYP. BD.	GYPSUM WALLBOARD

CONSTRUCTION COORDINATION NOTES

1. ANY ONSITE INTERRUPTION TO FIRE PROTECTION WATER SERVICE SHALL BE REPORTED TO THE FIRE DEPARTMENT AND MBMI WATER DEPARTMENT PRIOR TO SHUTDOWN.

2. ANY TEMPORARY INTERRUPTION TO FIRE ACCESS SHALL BE COORDINATED WITH AND REPORTED TO THE FIRE DEPARTMENT AT LEAST 72 HOURS IN ADVANCE, INCLUDING THE DATE AND ESTIMATED DURATION OF CLOSURE.

MORONGO RESERVATION FIRE DEPARTMENT NOTES

A) THE ADOPTED EDITION OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PARTS 1 THROUGH 12, SHALL APPLY AT THE TIME THE ARCHITECTURAL PLANS ARE SUBMITTED FOR CONSTRUCTION.

B) A FIRE DEPARTMENT ACCESS ROAD AND FIRE HYDRANTS COMPLYING WITH THE CFC, CHAPTER 5 PRIOR TO THE START OF CONSTRUCTION.

C) THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED WITHIN 100 FEET OF A PUBLIC FIRE HYDRANT. THE FIRE HYDRANT SHALL BE ON THE SAME SIDE OF THE STREET AS THE FDC. A VEHICLE ACCESS ROADWAY/APPROACH SHALL NOT BE PLACED BETWEEN THE FDC AND FIRE HYDRANT.

D) PRIOR TO CONSTRUCTION A TEMPORARY ADDRESS SIGN SHALL BE POSTED AND CLEARLY VISIBLE FROM THE STREET.

E) THE PERMANENT BUILDING ADDRESS SHALL BE PROVIDED AND EITHER INTERNALLY OR EXTERNALLY LIT DURING HOURS OF DARKNESS. THE ADDRESS SHALL BE A MINIMUM OF 12 INCHES IN HEIGHT, WITH A MINIMUM STROKE WIDTH OF ½ INCH, AND SHALL BE CLEARLY VISIBLE FROM THE STREET FRONTING THE PROPERTY.

F) A KNOX KEY BOX SHALL BE PROVIDED AT THE EXTERIOR BUILDING ENTRY AT AN APPROVED LOCATION BY THE MRF FIRE INSPECTOR. A KNOX KEY BOX SHALL ALSO BE PROVIDED AT THE REAR DOOR FOR BUILDINGS MORE OF 12,000 SQ. FT. OR MORE. KEYS FOR THE MAIN ENTRY DOOR SHALL BE PLACED IN THE BOX FOR FIREFIGHTER ACCESS.

G) LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH CFC 906 AND CCR TITLE 19. AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED DURING CONSTRUCTION ON EACH FLOOR AT EACH STAIRWAY, IN EACH STORAGE AND CONSTRUCTION SHED, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, OR WHERE SIMILAR HAZARDS ARE PRESENT PER CFC 3315.1. BEFORE FINAL OCCUPANCY, AT LEAST ONE 2A:10B:C EXTINGUISHER SHALL BE PROVIDED SO THAT NO POINT IS MORE THAN 75 FEET TRAVEL DISTANCE FROM THE EXTINGUISHER. EXTINGUISHERS SHALL BE LOCATED ALONG THE PATH OF EGRESS TRAVEL AND IN A READILY VISIBLE AND ACCESSIBLE LOCATION, WITH THE BOTTOM OF THE EXTINGUISHER AT LEAST 4 INCHES ABOVE THE FLOOR. ADDITIONAL EXTINGUISHERS MAY BE REQUIRED BY MRF INSPECTORS DEPENDING ON PROJECT OR SITE CONDITIONS AND FINAL PLACEMENT IS SUBJECT TO THEIR APPROVAL.

H) WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.9. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE FIRE MARSHAL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE MRF. SUCH ITEMS SHALL BE APPROVED AND INSPECTED PRIOR TO INSTALLATION.

I) APPROVAL OF THESE PLANS SHALL NOT PERMIT THE VIOLATION OF ANY CODE OR LAW. REQUIREMENTS OR FEATURES NOT IDENTIFIED ON THE PLAN MAY APPLY AND MRF INSPECTORS MAY REQUIRE ADDITIONAL INFORMATION OR ITEMS FROM THOSE SHOWN ON THE PLAN DEPENDING O N ACTUAL OR ANTICIPATED FIELD CONDITIONS. SUCH CHANGES MAY NECESSITATE THE SUBMISSION OF REVISED OR AS-BUILT PLANS TO THE MFR.

J) DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR IIA STRUCTURE SEPARATED BY 10 FEET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE OF NON- OR LIMITED-COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED. CFC 304.3

K) EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS, OR OTHER OBJECTS.

L) THE EGRESS PATH SHALL ALWAYS REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS. NO STORAGE IS PERMITTED IN THE AISLES.

M) EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. DOORS SHALL NOT BE PROVIDED WITH THUMB-TURN LOCKS OR DEADBOLTS THAT DO NOT UNLATCH IN TANDEM WITH THE NORMAL OPERATING LEVER. THE OPENING FORCE FOR INTERIOR DOORS WITHOUT CLOSERS SHALL NOT EXCEED 5 POUNDS. THE UNLATCHING AND OPENING FORCE FOR OTHER DOORS, INCLUDING FIRE DOORS, SHALL NOT EXCEED 15 POUNDS. CBC 1008

N) THE EXIT PATH SHALL BE CLEARLY IDENTIFIED WITH EXIT SIGNS CONFORMING TO CBC 1011. ILLUMINATED EXIT SIGNS MUST HAVE 90-MINUTE EMERGENCY POWER BACK-UP.

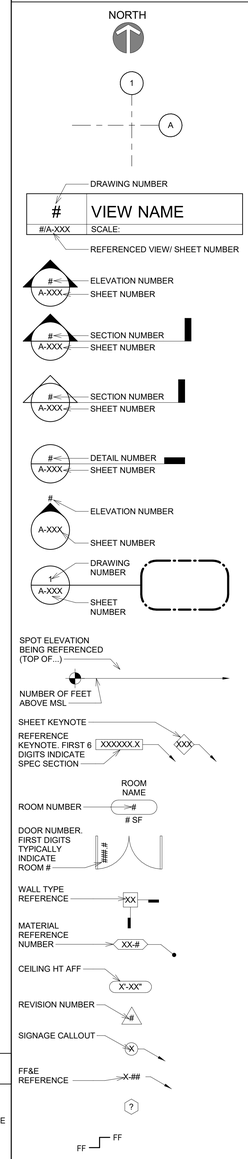
O) TACTILE SIGNS SHALL BE PROVIDED IN COMMERCIAL BUILDINGS, PUBLIC BUILDINGS/ACCOMMODATIONS, AND PUBLICLY FUNDED HOUSING SUBJECT TO CBC CHAPTERS 11A AND B AND CONFORM TO 1143A OR 11B-703.1, -703.2, -703.3,AND 703.5. BE MOUNTED WITH THE BOTTOM OF THE LOWEST LINE OF BRAILLE CHARACTERS AT LEAST 4 FEET ABOVE THE FLOOR BUT THE BOTTOM OF THE HIGHEST LINE OF RAISED TEXT CHARACTERS NO MORE THAN 5 FEET ABOVE THE FLOOR AND, WHENEVER POSSIBLE, ON THE STRIKE SIDE OF THE DOOR. LETTERING SHALL BE BETWEEN 5/8-INCH AND 2-INCHES HIGH. CBC 1011.4

P) THE EXIT PATH SHALL BE ALWAYS ILLUMINATED IN ACCORDANCE WITH CBC 1006. EMERGENCY LIGHTING SHALL BE PROVIDED WITH 90-MINUTE BACK-UP.

Q) RATED ASSEMBLIES SHALL CONFORM TO APPROVED METHODS AND MATERIALS OF CONSTRUCTION. PENETRATIONS THROUGH RATED WALLS, CEILINGS, OR FLOORS SHALL BE PROTECTED IN AN APPROVED MANNER COMPLYING WITH CBC/CFC CHAPTER 7.

R) FIRE/ SMOKE RATED DOORS SHALL BE SELF-CLOSING AND LATCHING; SUCH DOORS SHALL NOT BE EQUIPPED WITH DOOR STOPS OR OTHERWISE PROPPED OPEN. FIRE/ SMOKE RATED DOORS SHALL BE EQUIPPED WITH RATED HARDWARE. CFC 703

ARCHITECTURAL SYMBOLS



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LICENSED ARCHITECT
C-22519
05-31-2022
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

SHEET INDEX, NOTES, ABREVIATIONS & ARCHITECTURAL SYMBOLS

Sheet No.

G-002

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCH

8/31/2026 2:27:39 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

ELECTRIC VEHICLE (EV). [BSC-CG, HCD] An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats and the like, are not included.

ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES
5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

N/A — **5.105.2 Reuse of existing building.** An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

GC — **SECTION 5.106 SITE DEVELOPMENT**
5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP's.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

N/A — **5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

N/A — **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

N/A — **5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

N/A — **5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG]** Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code.*

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

N/A — TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[1,2]
0-9	0	0
10-25	4	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of actual parking spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

N/A — TABLE 5.106.5.3.6

TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL kVA @ 6.6 kVA	TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

N/A — **5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG]** Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

N/A — **5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG]** Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.

2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EVCS[2]
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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REVERSAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT
49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
CALGREEN CHECKLIST NON-RESIDENTIAL MANDATORY MEASURES

Sheet No.
G-003

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3

NUMBER OF PARKING SPACES IN A PARKING FACILITY	MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

Y N/A RESPON. PARTY: ☒ ☐ Elec EOR

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 **(G)**					
MAXIMUM ALLOWABLE GLARE RATING 3 **(G)**	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 3 **(G)**	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 3 **(G)**	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 3 **(G)**	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

Y N/A RESPON. PARTY: ☒ ☐ Elec EOR

5.106.8.1 Facing- Backlight
Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

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5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL
5.201.1 Scope [BSC-CG]. *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE
☐ ☒

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

Y N/A RESPON. PARTY: ☒ ☐ Plbg EOR

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

☐ ☒

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE
☐ ☒

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

☐ ☒

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL
5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS
5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT
Y N/A RESPON. PARTY: ☒ ☐ AOR

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

Y N/A RESPON. PARTY: ☒ ☐ GC

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

Y N/A RESPON. PARTY: ☒ ☐ GC

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.409 LIFE CYCLE ASSESSMENT
5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
REGISTRAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
CALGREEN CHECKLIST NON-RESIDENTIAL MANDATORY MEASURES

Sheet No.
G-004

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	kg CO_2e/MT
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2], [3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500~3499 psi	489	kg CO_2e/m^3
3500~4499 psi	566	kg CO_2e/m^3
4500~5499 psi	661	kg CO_2e/m^3
5500~6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500~3499 psi	956	kg CO_2e/m^3
3500~4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_n < GWP_{allowed}$
where
$GWP_n = \Sigma\ (GWP_n)(V_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(V_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
V_n = the volume of concrete mix $_n$ installed in the project, in m3

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

Informational Notes:

1. . Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1. — CxA

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off–road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system. — GC

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6. — GC

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC emission standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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LICENSED ARCHITECT C-22519 05 - 31 - 2027 REVIEWAL DATE STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
CALGREEN CHECKLIST NON-RESIDENTIAL MANDATORY MEASURES

Sheet No.
G-005

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

GC **5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.** Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

GC **5.505.1 INDOOR MOISTURE CONTROL.** Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

MC **5.506.1 OUTSIDE AIR DELIVERY.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

GC **5.506.2 CARBON DIOXIDE (CO_2) MONITORING.** For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code,* shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

AOR **5.507.4 ACOUSTICAL CONTROL.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

GC **5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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05 - 31 - 2027
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STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
CALGREEN CHECKLIST NON-RESIDENTIAL MANDATORY MEASURES

Sheet No.
G-006

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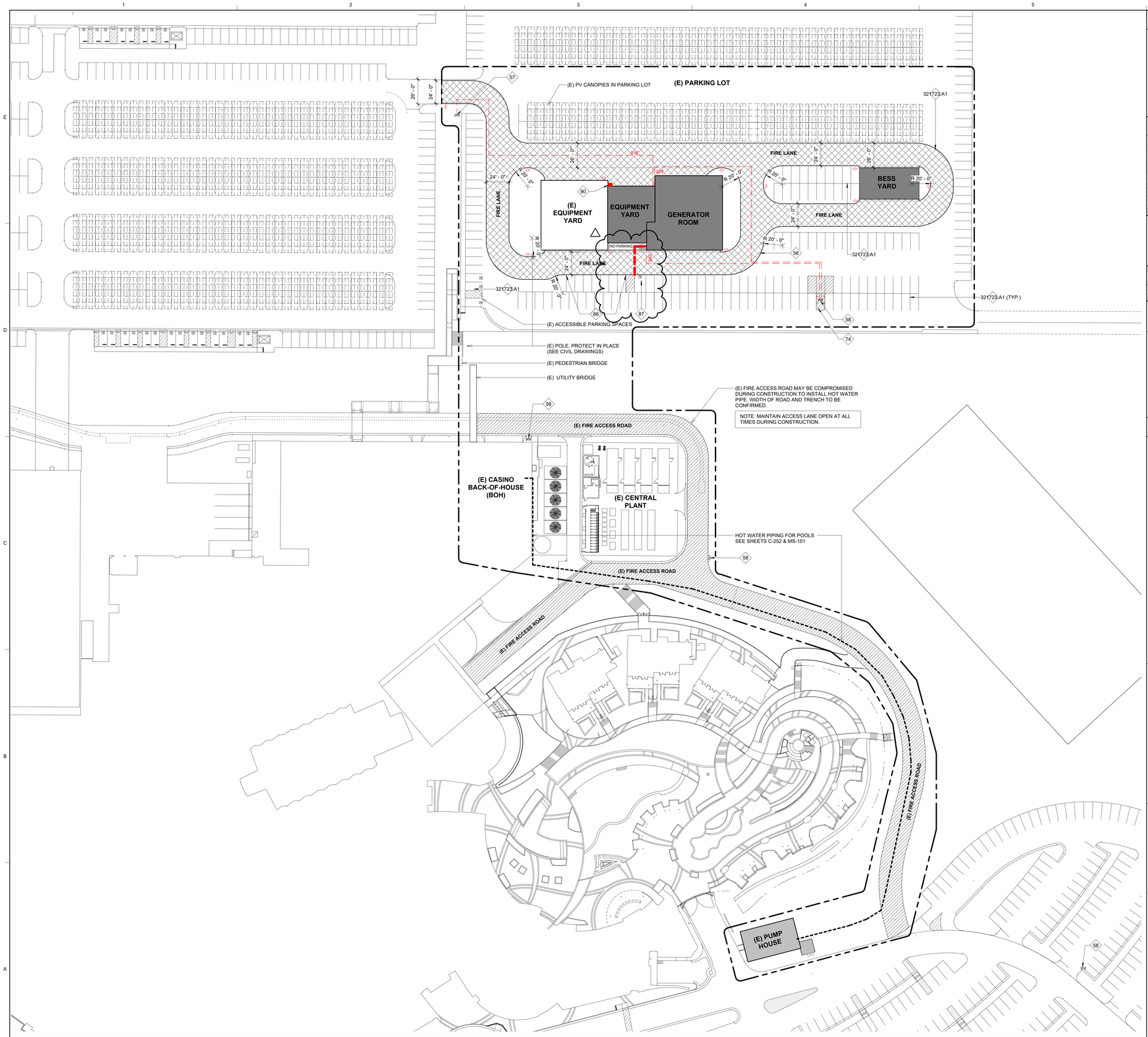

A1 SITE PLAN - FIRE ACCESS PLAN

1 / A03 | 1" = 40'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
56	FIRE LANE. MAINTAIN 24'-0" MIN. WIDTH THROUGHOUT
57	(N) FIRE HYDRANT - FIRE HYDRANT F800 SERIES; CLOW, MUELLER A-21, JONES 3765 (OR EQUAL). SEE CIVIL
58	(E) FIRE HYDRANT
74	PROVIDE "NO PARKING" STRIPING AT FIRE HYDRANT. EXISTING STEEL BOLLARDS TO REMAIN AND BE PROTECTED
86	STANDARD PARKING SPACE FOR COGEN FACILITY EMPLOYEES, COUNT 6 (AS SHOWN)
87	ACCESSIBLE PARKING SPACE (VAN ACCESSIBLE) PROVIDED IN COMPLIANCE WITH CBC 11B-208.1 AND TABLE 11B-208.2
90	BACK FLOW PREVENTER, FDC, AND PIV. SEE C-251

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
321723.A1	PAVEMENT MARKINGS: (PARKING STALL STRIPING, ACCESSIBLE SYMBOLS, DIRECTIONAL ARROWS, CROSSWALK STRIPPING, RED CURB PAINTING, AND FIRE LANE - "NO PARKING" MARKINGS, PER LOCAL FIRE DEPARTMENT REQUIREMENTS)

SITE PLAN LEGEND

AREA OF PROJECT IMPACT

PROVIDE MINIMUM 24'-0" WIDE FIRE DEPARTMENT VEHICLE ACCESS LANE (SEE SHEET G-101)

(E) FIRE ACCESS ROAD

ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE PATH OF TRAVEL PROVIDED FROM PUBLIC WAY AND ACCESSIBLE PARKING TO BUILDING ENTRANCE. PATH IS A MINIMUM 48" WIDE, WITH MAX 2% CROSS SLOPE AND MAX 5% RUNNING SLOPE. PATH IS STRIPED WITHIN PARKING AREA WHERE SIDEWALKS ARE NOT PROVIDED.

FIRE LANE / FIRE APPARATUS ACCESS ROUTE. REQUIRED DISTANCE: 375 FT (250 FT BASED ON CFC, INCREASED 50% FOR NFPA 13 SPRINKLERED BUILDING)

"NO PARKING FIRE LANE" SIGNAGE. SEE DETAIL A1/G-502

NOTE: AREAS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER CBC 11B-203.5 ARE IDENTIFIED ON SHEET A-101. THESE MACHINERY SPACES ARE ACCESSED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR, OR OCCASIONAL MONITORING OF EQUIPMENT.

PARKING ANALYSIS NOTES:

PARKING DEMAND IS BASED ON INDUSTRIAL EMPLOYEE-BASED CRITERIA FOR GROUP F-1/S OCCUPANCY. THE FACILITY IS EXPECTED TO BE MINIMALLY STAFFED, WITH APPROXIMATELY 5–10 PERSONNEL MAXIMUM DURING PEAK SHIFT CONDITIONS.

PARKING REQUIREMENT:
- EMPLOYEE-BASED DEMAND:
  APPROXIMATELY 7 PARKING SPACES REQUIRED,
  (10 EMPLOYEES ÷ 1.5 EMPLOYEES PER SPACE = 7 SPACES)
- FLOOR AREA CHECK:
  ±7,000 SF ÷ 1,000 SF PER SPACE = 7 SPACES REQUIRED (INDUSTRIAL STANDARD)

PARKING PROVIDED:
7 TOTAL PARKING SPACES PROVIDED
1 ACCESSIBLE PARKING SPACE PROVIDED

ACCESSIBLE PARKING:
PER CBC TABLE 11B-208.2 (1–25 TOTAL SPACES), 1 ACCESSIBLE SPACE IS REQUIRED AND PROVIDED. THE PROPOSED PARKING SUPPLY COMPLIES WITH CBC SECTION 11B-208.1 AND TABLE 11B-208.2.

SITE PAVEMENT NOTES:

1. BASE BID – THE TRENCHES WILL BE PATCHED BACK, AND THERE WILL BE NEW PAINT STRIPING THROUGHOUT THE PARKING AREA FROM FIRST SOLAR PANEL DRIPLINE TO THE SOUTH.

2. ALT. 1 – CAP SHEET ALL THE EXISTING PAVING IN THAT AREA SO IT LOOKS NEW AND THEN RE-STRIPE.

3. ALT. 2 – RE-SECTION THE FIRE LANE AND THEN CAP SHEET AND PAINT. NOTE: 'RE-SECTION FIRE LANE - FOR ALLOWANCE ASSUME 4" ASPHALT OVER 8" GRAVEL. FINAL CROSS SECTION DESIGN WILL NEED TO BE DETERMINED AFTER ADDITIONAL TESTING OF EXISTING CONDITIONS.

NORTH

0 20' 40' 80'
SCALE: 1" = 40'

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PROJECT NO. 24231

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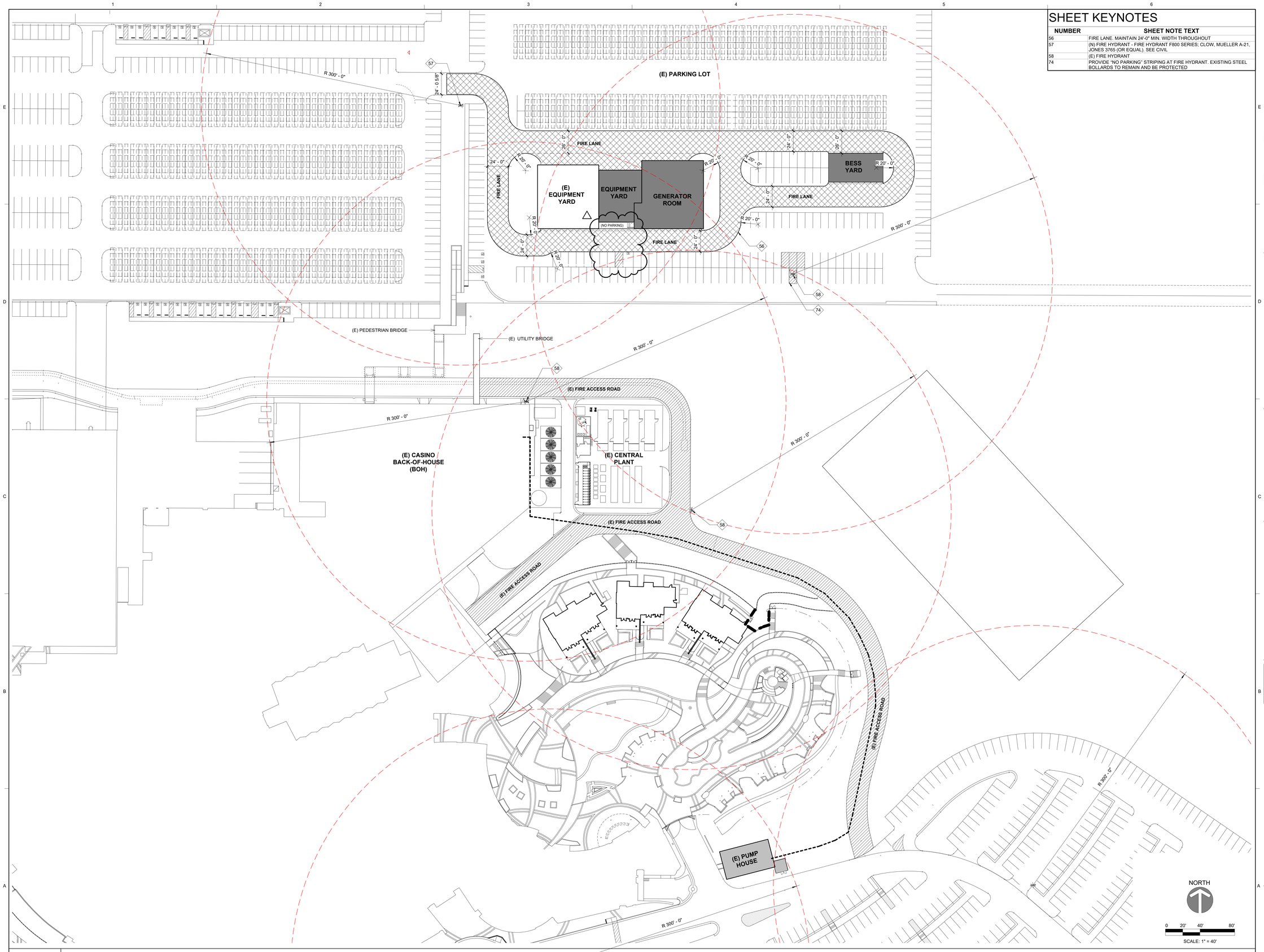
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
FIRE ACCESS PLAN

Sheet No.
G-100



SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
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58	(E) FIRE HYDRANT
74	PROVIDE "NO PARKING" STRIPING AT FIRE HYDRANT. EXISTING STEEL BOLLARDS TO REMAIN AND BE PROTECTED

A1 SITE PLAN - FIRE HYDRANT & FIRE LANE

1 / A03 | 1" = 40'-0"

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Sheet Title
FIRE LANE & HYDRANT SITE PLAN

Sheet No.
G-101

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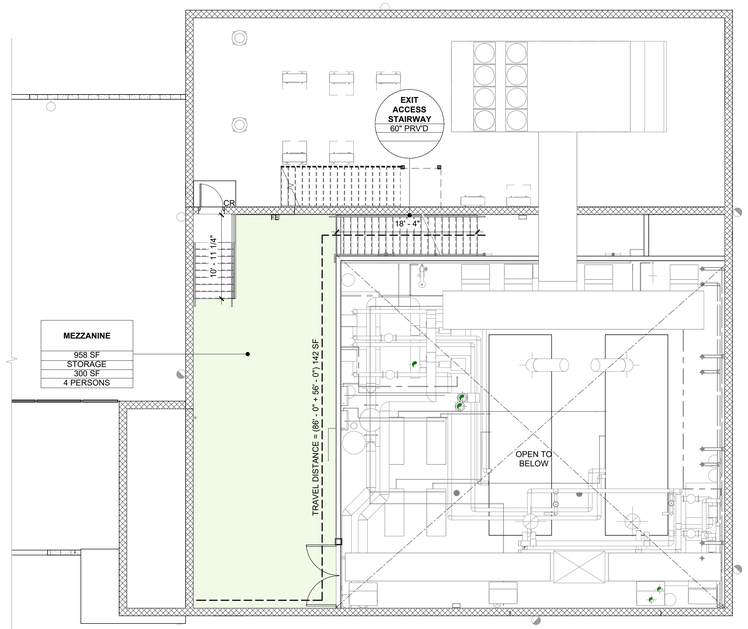
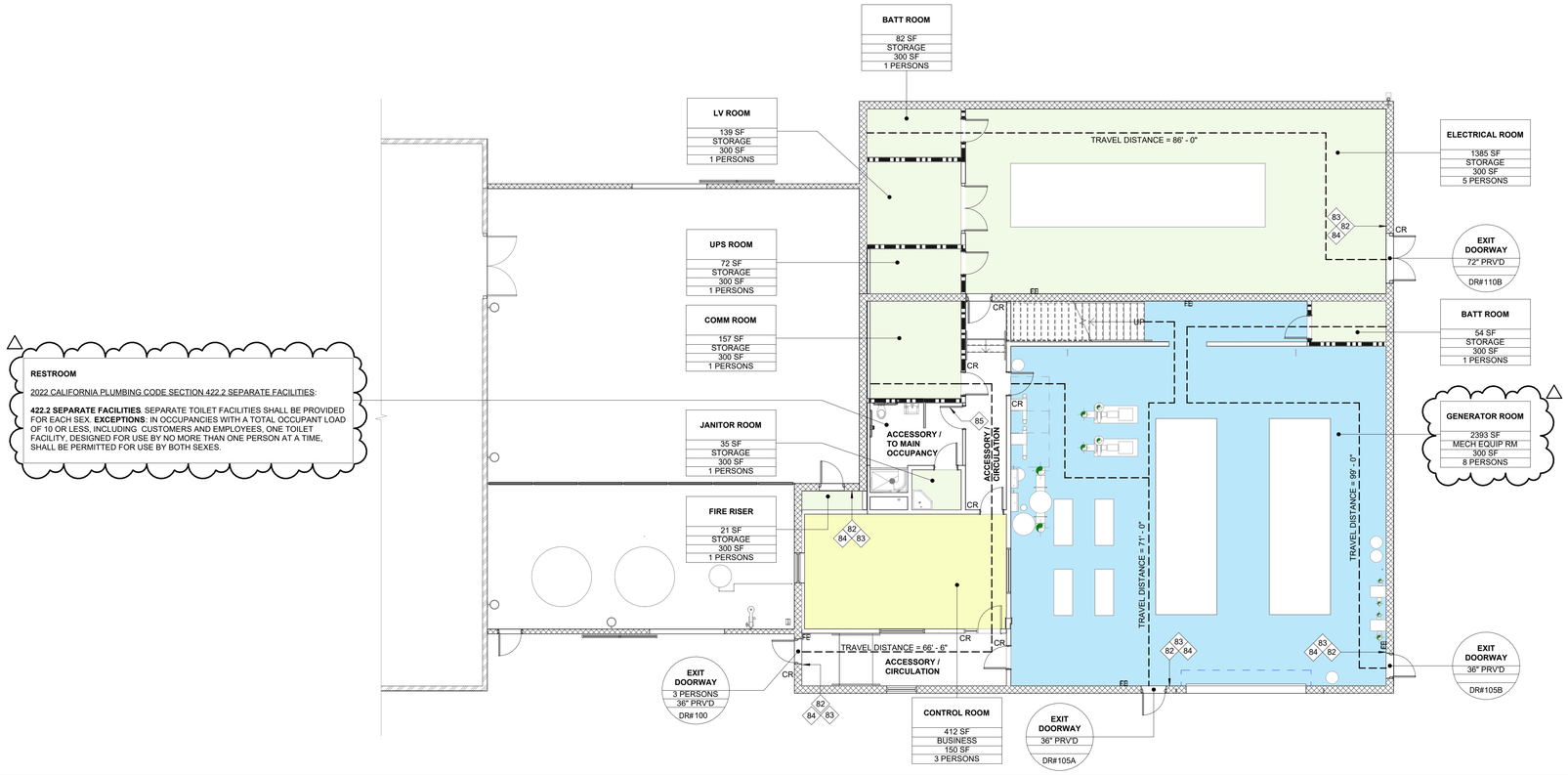


C1 LEVEL 2 - MEZZANINE EGRESS PLAN

1 / A03 1/8" = 1'-0"



RESTROOM

2022 CALIFORNIA PLUMBING CODE SECTION 422.2 SEPARATE FACILITIES:

422.2 SEPARATE FACILITIES. SEPARATE TOILET FACILITIES SHALL BE PROVIDED FOR EACH SEX. **EXCEPTIONS**: IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS, INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.

A1 LEVEL 1 - EGRESS PLAN

1 / A03 1/8" = 1'-0"

GENERAL SHEET NOTES

1. MIN. TRAVEL DISTANCE FOR F-1 OCCUPANCY, SPRINKLERED = 250' PER 2022 CBC TABLE 1017.2.
2. SEE ELECTRICAL LIGHTING PLANS FOR EMERGENCY EXIT SIGN LOCATIONS AND ORIENTATION.
3. COGEN FACILITY IS RESTRICTED TO AUTHORIZED PERSONNEL ONLY AND IS NOT INTENDED FOR PUBLIC USE.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
82	REQUIRED EXIT SIGN PER CBC 1010.2.4(3), 1" LETTERING. SEE DETAIL D2/G-502
83	TACTILE EXIT SIGN PER CBC 1013.4 AND CBC 11B-216.4.1. SEE DETAIL E1/G-502
84	DIRECTIONAL SIGN TO ACCESSIBLE EXIT PER CBC 1009.9 & 11B-703.5. SEE DETAIL D3/G-502
85	ACCESSIBLE RESTROOM SIGNAGE PER CBC 11B-216.8.1 AND 11B-703. SEE LIFE SAFETY TYPICAL SIGNAGE DETAILS A2/G-502

EGRESS PLAN LEGEND

- EXISTING CMU WALL
- 4 HR FIRE BARRIER - CMU WALL, SEE STRUCTURAL
- 1 HOUR RATED WALL - METAL STUD WALL
- 2 HOUR RATED WALL - METAL STUD WALL
- INTERIOR METAL STUD WALL

NOTE: SEE SHEET A-601 FOR WALL TYPES AND FIRE-RESISTANCE RATINGS.

FE FIRE EXTINGUSER

OCCUPANT LOAD FACTORS

150 SF

300 SF

300 SF

TOTAL OCCUPANCY NOTE:

THIS STRUCTURE IS PRIMARILY SELF RUNNING PLANT WITH NO OCCUPANTS OTHER THAN TRANSIENT USE IN THE CONTROL ROOM. FOR PURPOSES OF EGRESS CALCULATIONS OCCUPANT LOAD FACTORS FOR EACH SPACE HAVE BEEN INDICATED, HOWEVER, THE TOTAL LOAD OF THE BUILDING WILL NEVER EXCEED 10 OCCUPANTS.

NORTH

0 4'-0" 8'-0" 16'-0"

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

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Sheet Title

MEANS OF EGRESS PLANS

Sheet No.

G-102

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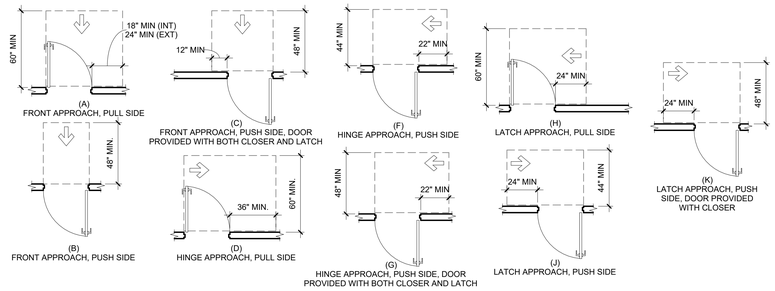


FIGURE 11B-404.2.4.1
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES

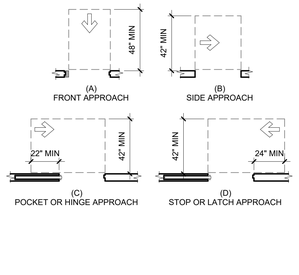


FIGURE 11B-404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

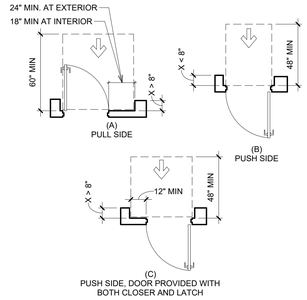


FIGURE 11B-404.2.4.3
MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES

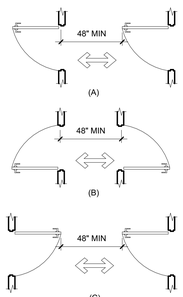
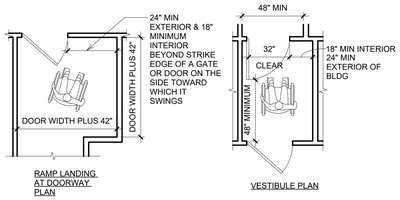


FIGURE 11B-404.2.6
DOORS IN SERIES AND GATES IN SERIES

NOTES:
CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS SHALL BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, SEE APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET.



RAMP LANDING AT DOORWAY PLAN

VESTIBULE PLAN

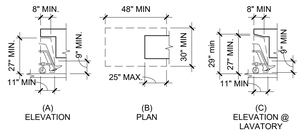


FIGURE 11B-306.3
KNEE CLEARANCE

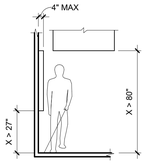
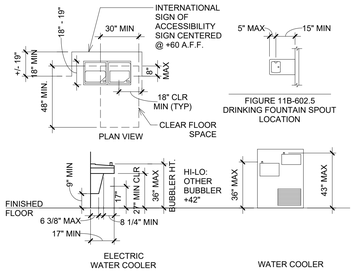
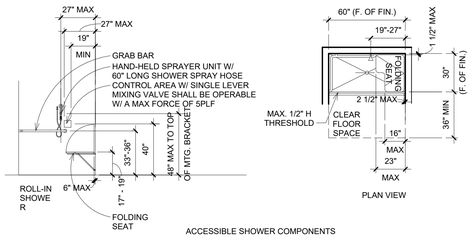


FIGURE 11B-307.2
LIMITS OF PROTRUDING OBJECTS



NOTES:
1. FLOOR SLOPE NOT TO EXCEED 2%
2. DRAIN GRATE MAX 1/4" OPENING & FLUSH W/ FLOOR SURFACE
3. FOLDING SHOWER SEAT MAX 3" FROM COMPARTMENT ENTRY; MUST SUPPORT 250LB POINT LOAD.



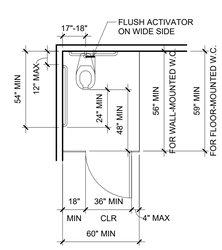
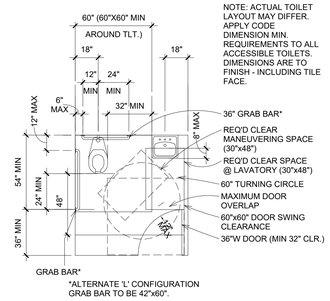
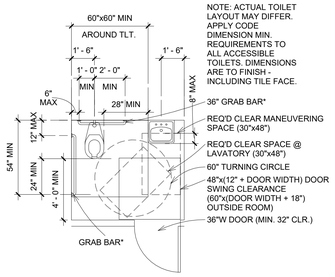


FIGURE 11A-9A (C)
TOILET FACILITIES
(ACCESSIBLE WATER CLOSET COMPARTMENT WITHIN MULTIPLE-ACCOMMODATION TOILET FACILITY)



NOTE: ACTUAL TOILET LAYOUT MAY DIFFER. APPLY CODE DIMENSION MIN. REQUIREMENTS TO ALL ACCESSIBLE TOILETS. DIMENSIONS ARE TO FINISH - INCLUDING TILE FACE.

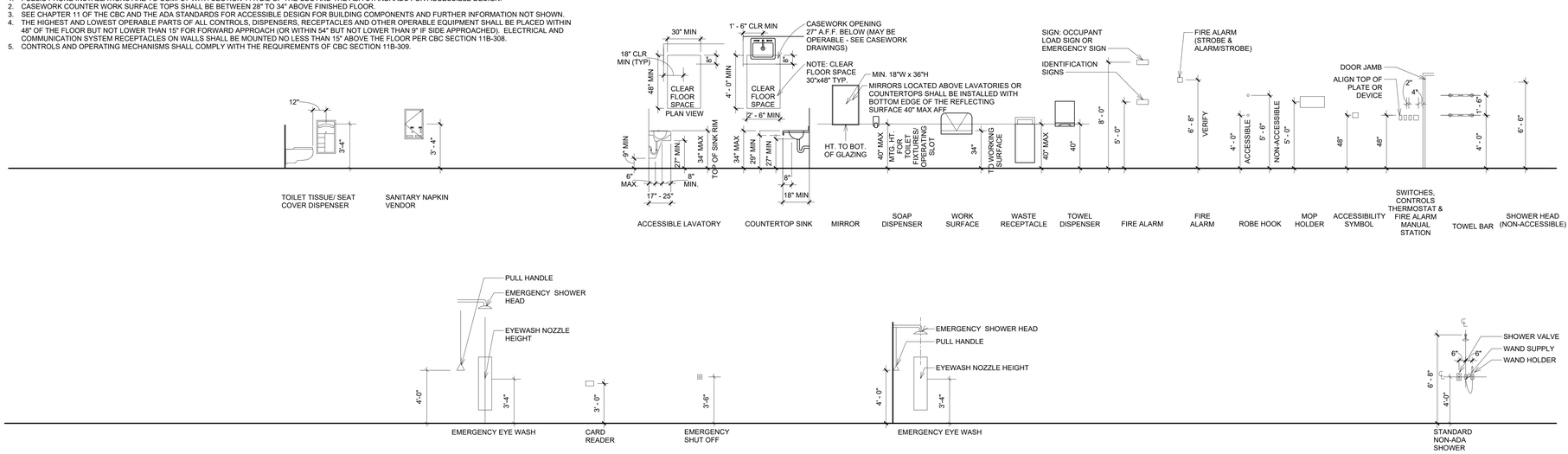
*ALTERNATE 'L' CONFIGURATION GRAB BAR TO BE 42"x60".



NOTE: ACTUAL TOILET LAYOUT MAY DIFFER. APPLY CODE DIMENSION MIN. REQUIREMENTS TO ALL ACCESSIBLE TOILETS. DIMENSIONS ARE TO FINISH - INCLUDING TILE FACE.

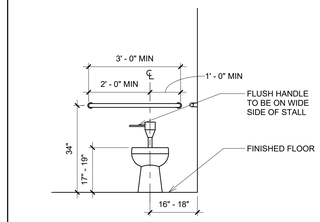
*ALTERNATE 'L' CONFIGURATION GRAB BAR TO BE 42"x60". OUTSWINGING DOOR ONLY

NOTES:
1. PUBLIC PHONE INSTALLATIONS ARE TO COMPLY WITH SECTION 1117B.2 OF THE CBC AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. CASEWORK COUNTER WORK SURFACE TOPS SHALL BE BETWEEN 28" TO 34" ABOVE FINISHED FLOOR.
3. SEE CHAPTER 11 OF THE CBC AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN FOR BUILDING COMPONENTS AND FURTHER INFORMATION NOT SHOWN.
4. THE HIGHEST AND LOWEST OPERABLE PARTS OF ALL CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" OF THE FLOOR BUT NOT LOWER THAN 15" FOR FORWARD APPROACH (OR WITHIN 54" BUT NOT LOWER THAN 9" IF SIDE APPROACHED). ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR PER CBC SECTION 11B-308.
5. CONTROLS AND OPERATING MECHANISMS SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 11B-309.



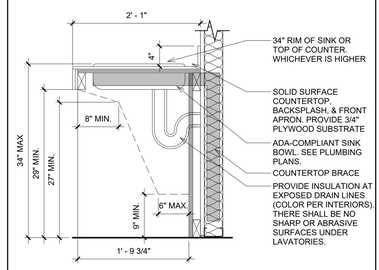
A1 ACCESSIBILITY DIAGRAMS

1/4" = 1'-0"



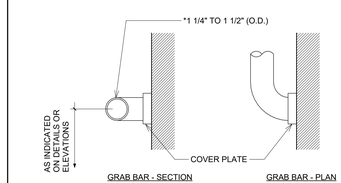
E6 ACCESSIBLE TOILET CONFIGURATION FRONT

1/2" = 1'-0"



D6 ACCESSIBLE LAVATORY

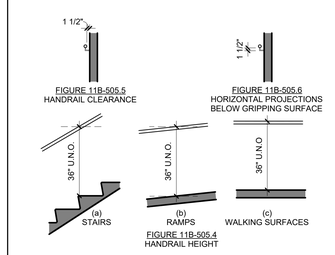
1" = 1'-0"



NOTES:
1. *1 1/4" TO 1 1/2" NOMINAL DIMENSION.
2. REFER TO GRAB BAR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AT TOILET PARTITION.
3. GRAB BAR SHALL RESIST A 250LB POINT LOAD.

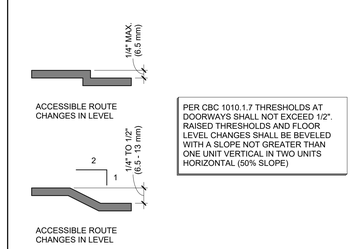
C6 GRAB BAR

3" = 1'-0"



B6 ADA HANDRAIL DIMENSIONS

3/8" = 1'-0"



PER CBC 1010.1.7 THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2". RAISED THRESHOLDS AND FLOOR LEVEL CHANGES SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50% SLOPE)

A6 ADA DOOR THRESHOLD

6" = 1'-0"

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1515 Morena Blvd.
San Diego, CA 92110
(619) 299-6690
delawie.com

LICENSED ARCHITECT
C-22519
05 - 31 - 2027
REVIEWING DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

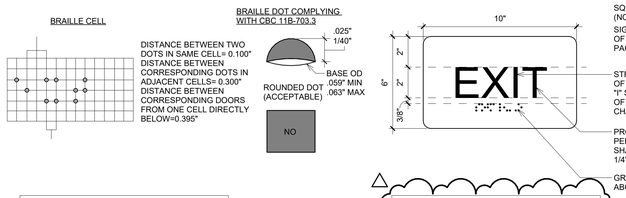
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
ACCESSIBILITY DIAGRAMS

Sheet No.
G-501



INFORMATION NOTED FOR CODE COMPLIANCE ONLY. FINAL DESIGN BY OTHERS.

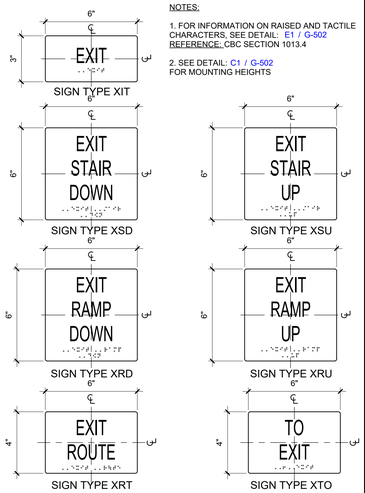
E1 TACTILE EXIT SIGN LETTERING

3" = 1'-0"

NOTES:

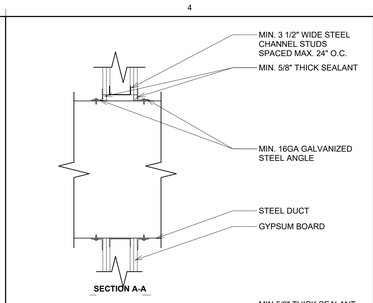
1. FOR INFORMATION ON RAISED AND TACTILE CHARACTERS, SEE DETAIL: E1 / G-502
REFERENCE: CBC SECTION 1013.4

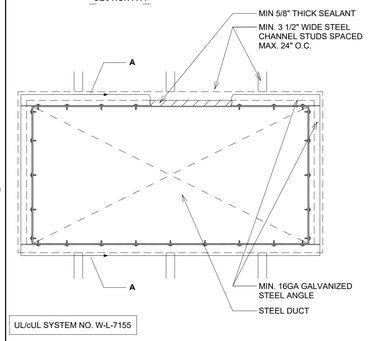
2. SEE DETAIL: C1 / G-502
FOR MOUNTING HEIGHTS



D3 EXIT / EXIT ROUTE SIGNS

3" = 1'-0"





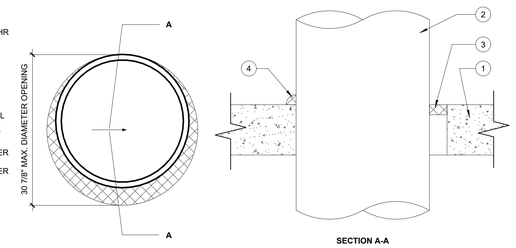
UL/cUL SYSTEM NO. W-L-7155

D4 METAL DUCT THRU FLOOR/WALL

12" = 1'-0"

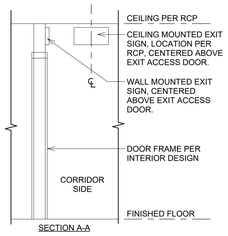
SYSTEM NO. C-AJ-1291
F RATING — 2 HR

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN 2-1/2" THICK)
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATRING ITEM TO ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON PIPE
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER COPPER TUBING
   E. MAXIMUM 4" NOMINAL DIAMETER EMT
3. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
4. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

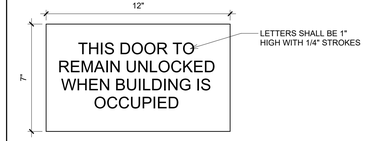


E5 METAL PIPE THRU CONCRETE FLOOR/WALL OR BLOCK WALL

1 1/2" = 1'-0"



SECTION A-A



MATERIAL: BY OTHERS
BACKGROUND COLOR: BY OTHERS
LETTERING & PICTOGRAM: WHITE, RAISED 1/32"

INFORMATION NOTED FOR CODE COMPLIANCE ONLY. FINAL DESIGN BY OTHERS.

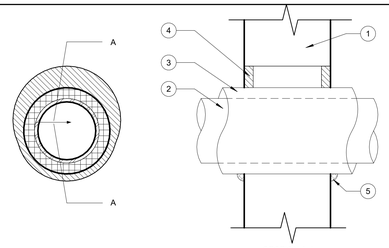
D2 DOOR UNLOLCKED

3" = 1'-0"

UL/cUL SYSTEM NO. W.J-5041k
INSULATED METAL PIPE THROUGH CONCRETE WALL OR BLOCK WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.

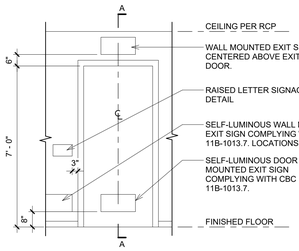
1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 3-3/4" THICK, FOR 1-HR. FIRE-RATING).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 5" THICK, FOR 2-HR. FIRE-RATING).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR COPPER TUBING.
3. MINIMUM 1\12" TO MAXIMUM 1" THICK ABIPVC FLEXIBLE FOAM PIPE INSULATION.
4. MINIMUM 518" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1\2" BEAD HILTI FS-ONE MAX OR FS-ONE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 7-1/2".
2. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



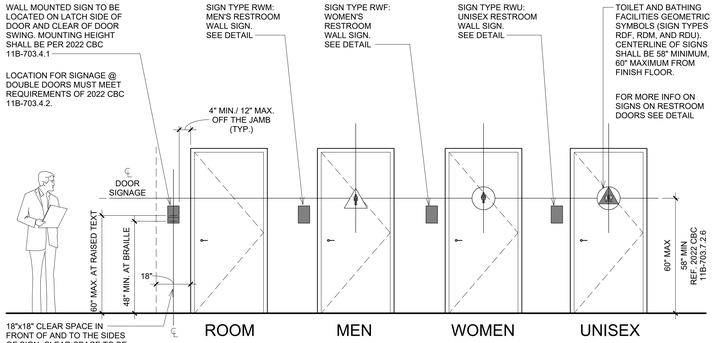
D5 INSULATED METAL PIPE THRU CONCRETE WALL OR BLOCK WALL

1 1/2" = 1'-0"



C1 EXIT SIGNS

3/8" = 1'-0"

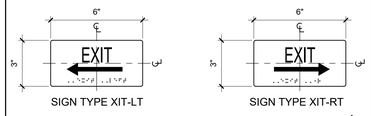


NOTE:
1. SIGNAGE SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF 2022 CBC SECTION 11B-703.
2. FOR INFORMATION NOT SHOWN HERE, SEE DETAIL:

C2 TYPICAL SIGN MOUNTING HEIGHTS

3/8" = 1'-0"

SEE DETAIL: C1 / G-502 FOR MOUNTING HEIGHTS.



NOTE:

DIRECTIONAL EXIT SIGNS ARE PROVIDED AT EXITS THAT DO NOT SERVE AS AN ACCESSIBLE MEANS OF EGRESS TO DIRECT PERSONS WITH DISABILITIES TO THE ACCESSIBLE MEANS OF EGRESS EXIT. REFER TO SHEET G-102 FOR EXIT DOOR LOCATIONS. DOOR 100 IS THE DESIGNATED ACCESSIBLE MEANS OF EGRESS EXIT. REFER TO SHEET A-611 FOR DOOR SCHEDULE.

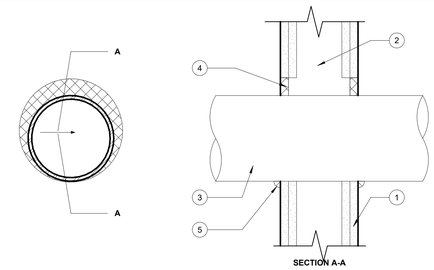
C4 EXIT / EXIT ROUTE SIGNS

3" = 1'-0"

SYSTEM NO. W-L-1054
F RATINGS —1 AND 2 HR (SEE ITEMS 1 AND 3)

1. GYPSUM WALL ASSEMBLY — (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN)
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" DIAMETER STEEL PIPE — (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4: NOMINAL DIAMETER EMT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENINGS:
   A. 32-1/4" FOR STEEL STUD WALLS
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4"
3. PIPE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR.



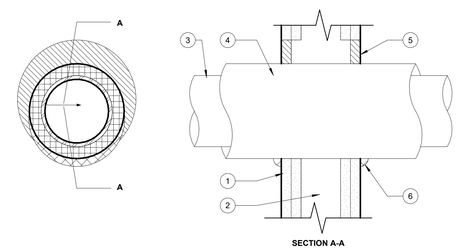
C5 METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

1 1/2" = 1'-0"

UL/cUL SYSTEM NO. W-L-5028n
F-RATING = 1-HR. OR 2-HR.

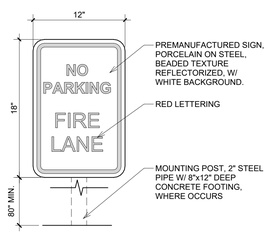
1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 2" NOMINAL DIAMETER COPPER PIPE OR TUBING.
4. MINIMUM 1/2" TO MAXIMUM 1" THICK ABIPVC FLEXIBLE FOAM PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING= 7-1/2".
2. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



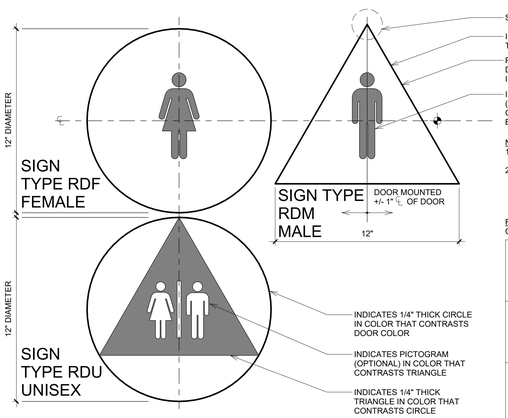
B5 INSULATED METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

1 1/2" = 1'-0"



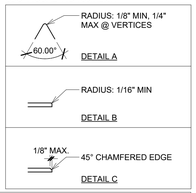
A1 FIRE LANE SIGNAGE

1 1/2" = 1'-0"



NOTES:
1. SIGNS SHALL BE APPLIED TO DOORS WITH NO VISIBLE FASTENERS.
2. TOILET AND BATHING FACILITIES GEOMETRIC SYMBOLS SHALL COMPLY WITH CBC 11B-703.7.2.6.

REFERENCE:
CBC FIGURE 11B-703.7.2.6.4



SEE DETAIL: C2 / G-502
FOR MOUNTING HEIGHTS

INFORMATION NOTED FOR CODE COMPLIANCE ONLY. FINAL DESIGN TBD.

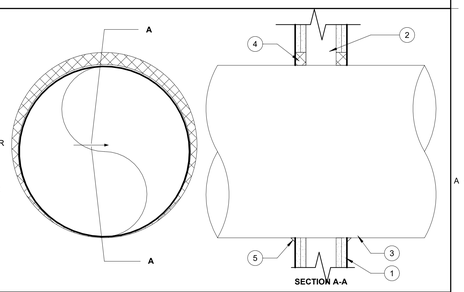
A2 RESTROOM DOOR SIGNAGE

3" = 1'-0"

UL/cUL SYSTEM NO. W-L-7042e
F-RATING = 1-HR. OR 2-HR.
METAL DUCT (WITHOUT DAMPER) THROUGH GYPSUM WALL ASSEMBLY

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 20" NOMINAL DIAMETER SPIRAL WOUND SHEET METAL DUCT (MIN. 24 GA.).
   B. MAXIMUM 12" NOMINAL DIAMETER SHEET METAL DUCT (MIN. 28 GAUGE).
4. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH, FORA 1-HR. FIRE RATING.
   B. MINIMUM 1-1/4" DEPTH , FOR A 2-HR. FIRE RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT OR CP 601S ELASTOMERIC FIRESTOP SEALANT, OR HILTI CP 606 FLEBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING FOR STEEL STUD WALLS= 21-3/4".
2. MAXIMUM DIAMETER OF OPENING FOR WOOD STUD WALLS= 14-1/2".
3. ANNULAR SPACE= MINIMUM 0", MAXIMUM 1-1/2".



A5 METAL DUCT THRU GYPSUM WALL ASSEMBLY

1 1/2" = 1'-0"

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
△	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
FIRE RESISTANCE AND LIFE SAFETY TYPICAL SIGNAGE DETAILS

Sheet No.
G-502

8/31/2026 2:27:58 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

CIVIL DESIGN - GENERAL NOTES

GENERAL NOTES

A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
   A.1. THE PROJECT PLANS AND SPECIFICATIONS.
   A.2. UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OFFICE OF STANDARDS AND RULES OF THE STATE DIVISION OF INDUSTRIAL SAFETY.
   A.3. REQUIREMENTS OF ALL PERMITS APPLICABLE TO THIS PROJECT.
   A.4. THE CURRENT UNIFORM BUILDING CODE AND UNIFORM PLUMBING CODE.
   IN CASE OF CONFLICTS BETWEEN ANY OF THE ABOVE, THE MOST STRINGENT SHALL GOVERN.
B. THE OWNER SHALL BE IMMEDIATELY NOTIFIED IN WRITING BY THE CONTRACTOR OF ANY IDENTIFIED CONDITIONS THAT REQUIRE CHANGES AND/OR DEVIATIONS FROM THESE PLANS AND/OR SPECIFICATIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL NOTIFY THE OWNER AND ENGINEER OF RECORD OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE PLANS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE SURVEY OR CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
C. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF CONSTRUCTION PLANS AT THE PROJECT SITE DURING CONSTRUCTION.
D. ALL EXCAVATIONS 5' IN DEPTH OR GREATER SHALL BE SHORED AND BRACED AS PER OSHA REGULATIONS.
E. ALL EXISTING UTILITIES ARE INDICATED AT THEIR HORIZONTAL LOCATION IN DEPTH BASED UPON TOPOGRAPHICAL SURVEY AND RECORD INFORMATION PROVIDED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL LOCATIONS, DEPTHS AND SIZES, AND SHALL NOTIFY THE OWNER AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION FOR ACTUAL FIELD LOCATION (UNDERGROUND SERVICE ALERT (USA PHONE: 811) CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY INFORMATION DISCOVERED THAT IS INCONSISTENT WITH PLANS. PACRIM TAKES NO RESPONSIBILITY FOR DIFFERING SITE CONDITIONS.
F. THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE, BREAKAGE, OR LEAKS CAUSE BY HIS WORK.
G. IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, CONTRACTOR SHALL PROVIDE DETAILED RECORD DRAWINGS SHOWING ALL DEVIATIONS, CHANGES, ADDITIONS AND DELETIONS MADE DURING CONSTRUCTION. ONE SET SHALL BE MAINTAINED AT THE SITE AND UPDATED DAILY.
H. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION AND SHALL BE MAINTAINED.
I. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL DEMOLITION AND CONSTRUCTION STAGING AMONG ALL ADJACENT PROJECTS, INCLUDING BUT NOT LIMITED TO TRAFFIC HANDLING, CURB RETURNS, UTILITIES, TRAFFIC SIGNALS AND DRAINAGE.
J. ANY POTHOLING EXCAVATION SHALL BE DONE BY THE VACUUM EXTRACTION TYPE METHOD, NOT WITH HEAVY EXCAVATION EQUIPMENT.
K. CONTRACTOR IS RESPONSIBLE FOR BARRICADES, FLAG MEN, AND LIGHTS AS MAY BE REQUIRED PER OWNER REQUIREMENTS.
L. CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITIES AND SURFACE IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE AND SHALL BEAR FULL RESPONSIBILITY FOR ANY DAMAGE TO SUCH INFRASTRUCTURE.
M. PIPE MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS LISTED IN THIS PLAN SET AND THE MANUFACTURER'S RECOMMENDATIONS.
N. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF UTILITIES AND/OR UTILITY BOXES IN CONJUNCTION WITH REQUIRED SITE WORK.
O. ALL TRENCH BACKFILL SHALL BE COMPACTED AS SHOWN ON THE PLANS AND/OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. IF TESTS SHOW THAT THE ACTUAL COMPACTION HAS NOT EQUALED OR SURPASSED THAT WHICH IS RECOMMENDED, THE GEOTECHNICAL ENGINEER SHALL PROVIDE THE PROPOSED ACTION TO BE TAKEN.
P. CONTRACTOR TO ENSURE POSITIVE SLOPE ALONG THE ENTIRE LENGTH OF ALL DRAINPIPE.
Q. THE EXISTING PIPES, STRUCTURES AND UTILITIES AS SHOWN ARE PER AVAILABLE RECORD DRAWINGS. ATTENTION MUST BE DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND MAINS AND LATERALS THAT ARE NOT INDICATED ON THE PLANS OR WHICH MAY BE IN LOCATIONS DIFFERENT FROM THAT AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY BEFORE TRENCHING.
R. IN CASE OF A UTILITY RELATED EMERGENCY DURING CONSTRUCTION, CONTACT THE OWNER IMMEDIATELY.
S. COORDINATE AND OBTAIN THE OWNER'S APPROVAL FOR PROPOSED HAUL ROUTE(S), WORK SITE ACCESS POINT(S), AND EMPLOYEE PARKING.
T. EACH UTILITY LINE AND STRUCTURE BEING DEMOLISHED IS ASSUMED TO BE A LATERAL CONNECTION TO EXISTING BUILDINGS BEING DEMOLISHED AS PART OF THIS PROJECT. CONFIRM THAT EACH UTILITY BEING DEMOLISHED DOES NOT PROVIDE UTILITY SERVICE TO FACILITIES TO REMAIN. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF RECORD IF UTILITIES SHOWN FOR DEMOLITION PROVIDE SERVICE TO OTHER FACILITIES TO REMAIN. ALL ADJACENT FACILITIES MUST MAINTAIN UTILITY SERVICE THROUGHOUT CONSTRUCTION.
U. DRY UTILITY TRANSMISSION LINES AND WET UTILITY MAIN LINES PROVIDING SERVICE TO FACILITIES TO REMAIN MUST REMAIN ACTIVE AT ALL TIMES AND BE PROTECTED IN PLACE.
V. ELECTRICAL AND COMMUNICATION DEMOLITION IS SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND COMMUNICATION PLANS FOR DESIGN INFORMATION.
W. AFTER DEMOLITION IS COMPLETED, GRADE THE SITE TO ENSURE NATURAL DRAINAGE PATTERNS ARE MAINTAINED. ALL STORMWATER RUNOFF MUST BE DIRECTED AWAY FROM FACILITIES TO REMAIN.
X. ALL AREAS OF PROPOSED DISTURBANCE MUST BE COORDINATED WITH BASE ENVIRONMENTAL PRIOR TO STARTING CONSTRUCTION.
Y. ALL TRENCHES CREATED FOR UTILITY MUST BE BACKFILLED WITH COMPETENT MATERIAL. ALL PAVEMENT DAMAGED MUST BE REPLACED WITH A SECTION THAT MATCHES THE EXISTING CONDITION.
Z. CONTRACTOR SHALL COORDINATE WITH SOUTHERN CALIFORNIA EDISON TO OBTAIN APPROVAL TO ACCESS AND PERFORM WORK ACROSS THE POWERLINES EASEMENT WITHIN THE PROJECT WORK AREA.
AA. CONTRACTOR SHALL COORDINATE WITH SOUTHERN CALIFORNIA GAS TO OBTAIN APPROVAL TO ACCESS AND PERFORM WORK ACROSS THE 30" HIGH PRESSURE GAS LINE EASEMENT WITHIN THE PROJECT WORK AREA AS WELL AS COORDINATE FOR ANY IMPACTS TO THE ABANDONED 30" HIGH PRESSURE GAS LINE WITHIN THE PROJECT WORK AREA.
   AA.1. POINT OF CONTACT: CHAN PAEK (213) 244-3325 CPAEK@SOCALGAS.COM
AB. CONTRACTOR SHALL COORDINATE WITH OWNER FOR INSTALLATION OF METERS FOR TRIBAL AND PUBLIC UTILITY CONNECTION.

PAVEMENT BID ALTERNATES

1. BASE BID - THE UTILITY TRENCHES WILL BE PATCHED BACK AND THERE WILL BE NEW PAINT STRIPING THROUGHOUT THE PARKING AREA FROM THE FIRST SOLAR PANEL DRIPLINE TO THE SOUTH.
2. ALTERNATE 1 - CAP SHEET ALL THE EXISTING PAVING IN THAT AREA SO IT LOOKS NEW AND THEN RE-STRIPE,
3. ALTERNATE 2 - RE-SECTION THE FIRE LANE AN THEN CAP SHEET AND PAINT. ASSUME 5" AC OVER 8" CLASS 2 AGGREGATE BASE FOR FIRE LANE SECTION.

UTILITY NOTES

A. WATER PIPES WILL BE INSTALLED WITH 36-INCHES MINIMUM COVER.
B. AFTER INSTALLATION OF NEW WATER LINE, CLEAN AND DISINFECT NEW WATER SUPPLY SECTION IN ACCORDANCE WITH AWWA C-651.
C. COORDINATE AND SCHEDULE UTILITY TIE-INS AND CONNECTIONS ACCORDINGLY. UTILITY TIE-INS TO DISTRIBUTION MAIN AND CONNECTIONS SHALL BE MADE IN THE PRESENCE OF A UTILITY REPRESENTATIVE.

EROSION CONTROL NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT DURING THE ENTIRETY OF CONSTRUCTION OF THIS PROJECT, UNTIL SUCCESSFUL FILING OF NOTICE OF TERMINATION.
B. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.
C. EROSION CONTROL PLAN INCLUDED WITH THIS SET DEPICTS THE FINISHED CONDITION OF THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY PHASING TEMPORARY EROSION CONTROL PARAMETERS AS CONSTRUCTION PROGRESSES. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL PARAMETERS AFTER CONSTRUCTION HAS BEEN COMPLETED. ALL MAINTENANCE OF EROSION CONTROL PARAMETERS DURING CONSTRUCTION SHALL FALL UNDER THE RESPONSIBILITY OF THE CONTRACTOR.
D. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER THE SATISFACTION OF THE CONTRACTING OFFICER AFTER EACH RUN-OFF PRODUCING RAINFALL.
E. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE QUALIFIED SWPPP PRACTITIONER (QSP).
F. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
G. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
H. GRAVEL SHALL BE PLACED IN DISTURBED AREAS TO MATCH ADJACENT SURFACES.
I. THE CONTRACTOR SHALL STORE CONSTRUCTION MATERIALS AS TO MINIMIZE THE RISK OF STORM WATER POLLUTION, GROUND WATER POLLUTION, SOIL CONTAMINATION AND INJURY TO WORKERS AND VISITORS.
J. EQUIPMENT TO BE STORED, FUELED AND MAINTAINED ON SITE SHALL BE FUELED AWAY FROM ANY DRAINAGE COURSES AND IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
K. WASTE WILL EITHER BE PLACED IN DUMPSTERS OR IN WASTE CONTAINMENT AREAS. ALL WASTE WILL BE TRANSPORTED OFF-SITE IN A TIMELY MANNER TO APPROVED WASTE DISPOSAL AREAS (DUMPS). STORAGE, HANDLING AND TRANSPORTATION OF WASTE SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.
L. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED. MAINTENANCE SHALL INCLUDE REMOVAL OF SILT FROM BARRIERS AND SEDIMENTATION DEVICES, SEEDING OR MULCHING OF DAMAGED STABILIZED AREAS AND REPLACEMENT OR REPAIR OF WORN OR DAMAGED GEOTEXTILE FABRIC.
M. THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED IN THE EVENT OF A RAINSTORM. ONE HUNDRED TWENTY FIVE PERCENT (125 %) OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN TWENTY-FOUR (24) HOURS OR LESS OF A FORECAST OF RAIN.
N. DUST CONTROL MEASURES MUST BE PROVIDED PER BASE REQUIREMENTS AT ALL TIMES DURING CONSTRUCTION.

FIRE DEPARTMENT ACCESS

CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT PROVIDES 24/7 FIRE DEPARTMENT ACCESS ALONG THE FIRE ACCESS ROAD AND TO ALL FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS AROUND THE CASINO FACILITIES. CONTRACTOR SHALL OBTAIN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM THE MORONGO RESERVATION FIRE DEPARTMENT PRIOR TO COMMENCEMENT OF WORK.

BASIS OF BEARINGS

HORIZONTAL SURVEY CONTROL VALUES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT, EPOCH 2024.75, USING SMARTNET STATION SAN JACINTO (CASJ), RTCM ID 3225.

VERTICAL SURVEY CONTROL VALUES ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, AND ARE GPS DERIVED USING GEOID18, ALSO KNOWN AS CALIFORNIA ORTHOMETRIC HEIGHTS PER PUBLIC RESOURCE CODE 8890.

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No. C54085
Exp. 12/31/27
CIVIL
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

CIVIL GENERAL NOTES

Sheet No.

C-051

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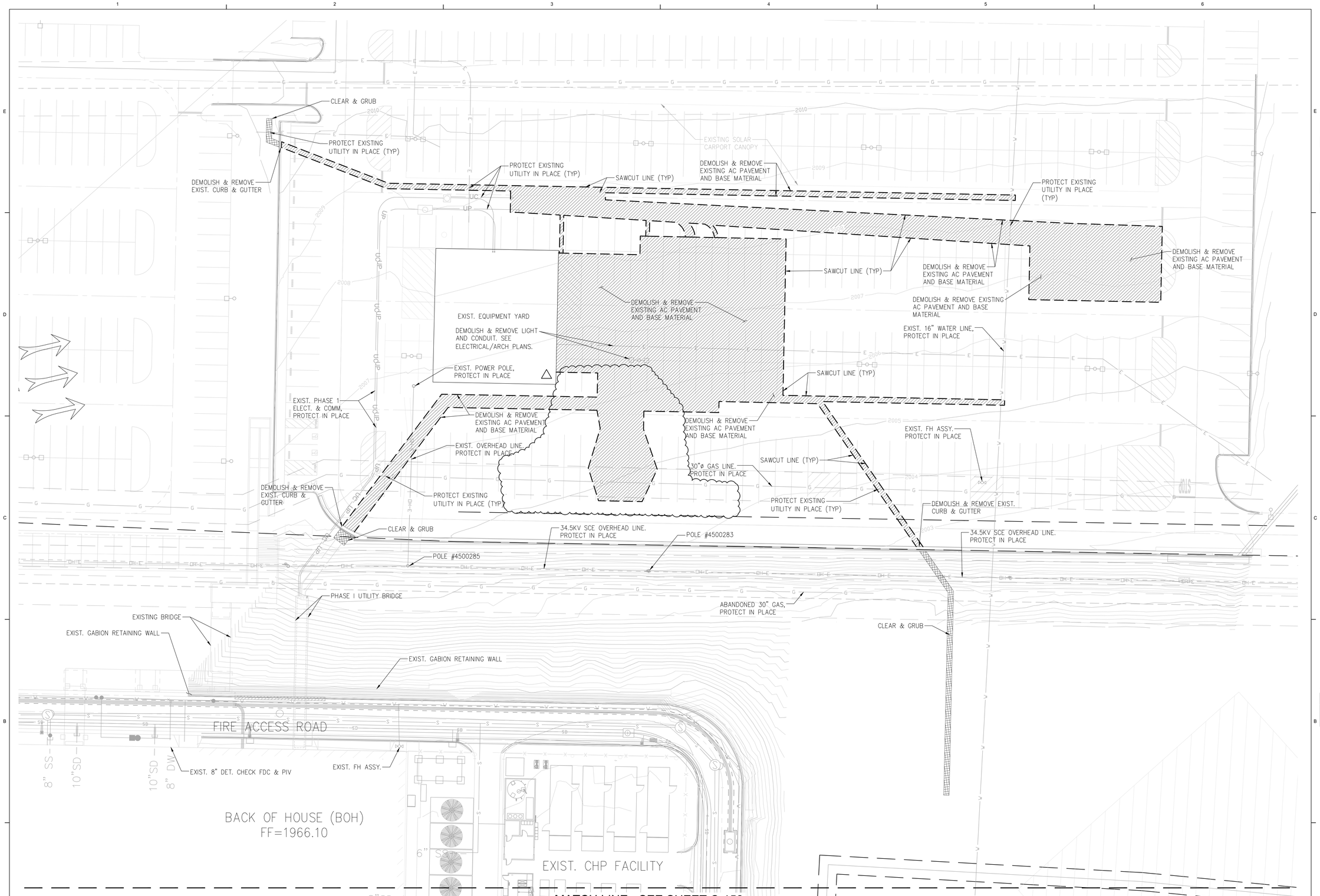

UTILITY NOTES

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE UNDERGROUND GAS LINES AND EASEMENTS WITH SOCALGAS.

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE OVERHEAD UTILITY LINES AND POLES WITH SOUTHERN CALIFORNIA EDISON.

CONTRACTOR SHALL COORDINATE ANY METERING REQUIREMENTS/INSTALLATION WITH THE OWNER.

GAS EASEMENT NOTE

PROIR TO THE START OF ANY POTHOLING, DEMOLITION, CONSTRUCTION OR OTHER OPERATIONS WITHIN THE EXISTING GAS EASEMENT, THE CONTRACTOR SHALL ENSURE THAT SOUTHERN CALIFORNIA GAS COMPANY HAS A REPRESENTATIVE ONSITE TO MONITOR CONSTRUCTION ACTIVITIES.

EXISTING CONDITIONS LEGEND

EXISTING CONTOUR	(10) (9)	EXISTING STORM DRAIN	SD	EXISTING ELECTRICAL MANHOLE	E	DEMO PAVEMENT	
EXISTING COMMMUNICATIONS	UC	EXISTING WATER	W	EXISTING COMMUNICATIONS MANHOLE	C	CLEAR & GRUB	
EXISTING ELECTRICAL OVERHEAD	OH-E	EXISTING ELECTICAL	E	EXISTING SANITARY SEWER MANHOLE	S	SAWCUT	
EXISTING ELECTRICAL UNDERGROUND	UP	EXISTING FIRE HYDRANT		EXISTING LIGHT POLE			
EXISTING GAS	G	EXISTING WATER VALVE		EXISTING POWER POLE			
EXISTING SANITARY SEWER	S	EXISTING STORM DRAIN INLET		EXISTING SIGN			

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SCALE: 1"=20'

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PROJECT NO. 24231

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PHASE 2 - IFC 2026.08.10

Sheet Title

PHASE 2
DEMO
PLAN

Sheet No.

C-151

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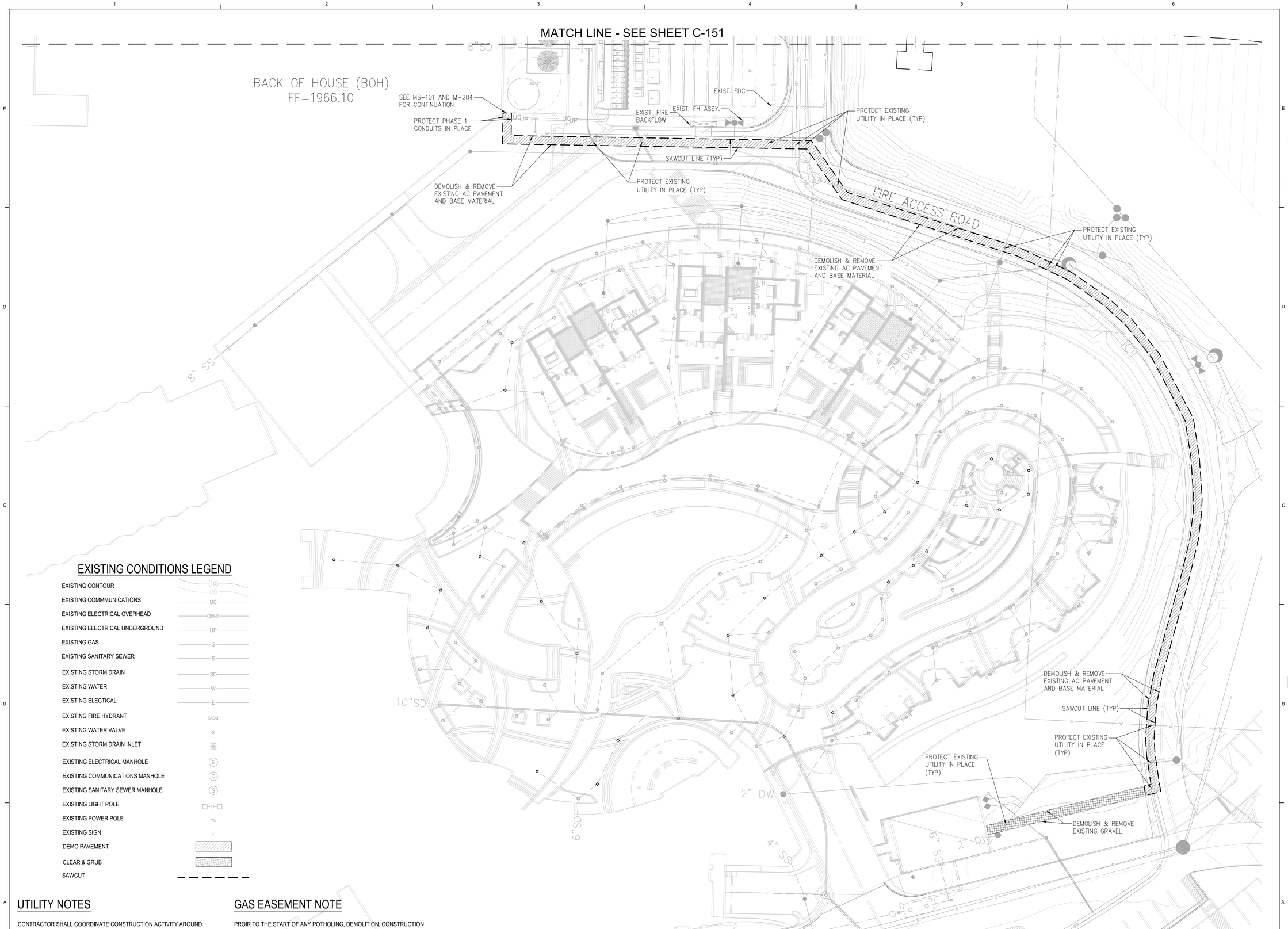

EXISTING CONDITIONS LEGEND

EXISTING CONTOUR	(10) (9)
EXISTING COMMMUNICATIONS	UC
EXISTING ELECTRICAL OVERHEAD	OH-E
EXISTING ELECTRICAL UNDERGROUND	UP
EXISTING GAS	G
EXISTING SANITARY SEWER	S
EXISTING STORM DRAIN	SD
EXISTING WATER	W
EXISTING ELECTICAL	E
EXISTING FIRE HYDRANT	
EXISTING WATER VALVE	
EXISTING STORM DRAIN INLET	
EXISTING ELECTRICAL MANHOLE	E
EXISTING COMMUNICATIONS MANHOLE	C
EXISTING SANITARY SEWER MANHOLE	S
EXISTING LIGHT POLE	
EXISTING POWER POLE	
EXISTING SIGN	
DEMO PAVEMENT	
CLEAR & GRUB	
SAWCUT	

UTILITY NOTES

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE UNDERGROUND GAS LINES AND EASEMENTS WITH SOCALGAS.

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE OVERHEAD UTILITY LINES AND POLES WITH SOUTHERN CALIFORNIA EDISON.

CONTRACTOR SHALL COORDINATE ANY METERING REQUIREMENTS/INSTALLATION WITH THE OWNER.

GAS EASEMENT NOTE

PROIR TO THE START OF ANY POTHOLING, DEMOLITION, CONSTRUCTION OR OTHER OPERATIONS WITHIN THE EXISTING GAS EASEMENT, THE CONTRACTOR SHALL ENSURE THAT SOUTHERN CALIFORNIA GAS COMPANY HAS A REPRESENTATIVE ONSITE TO MONITOR CONSTRUCTION ACTIVITIES.

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

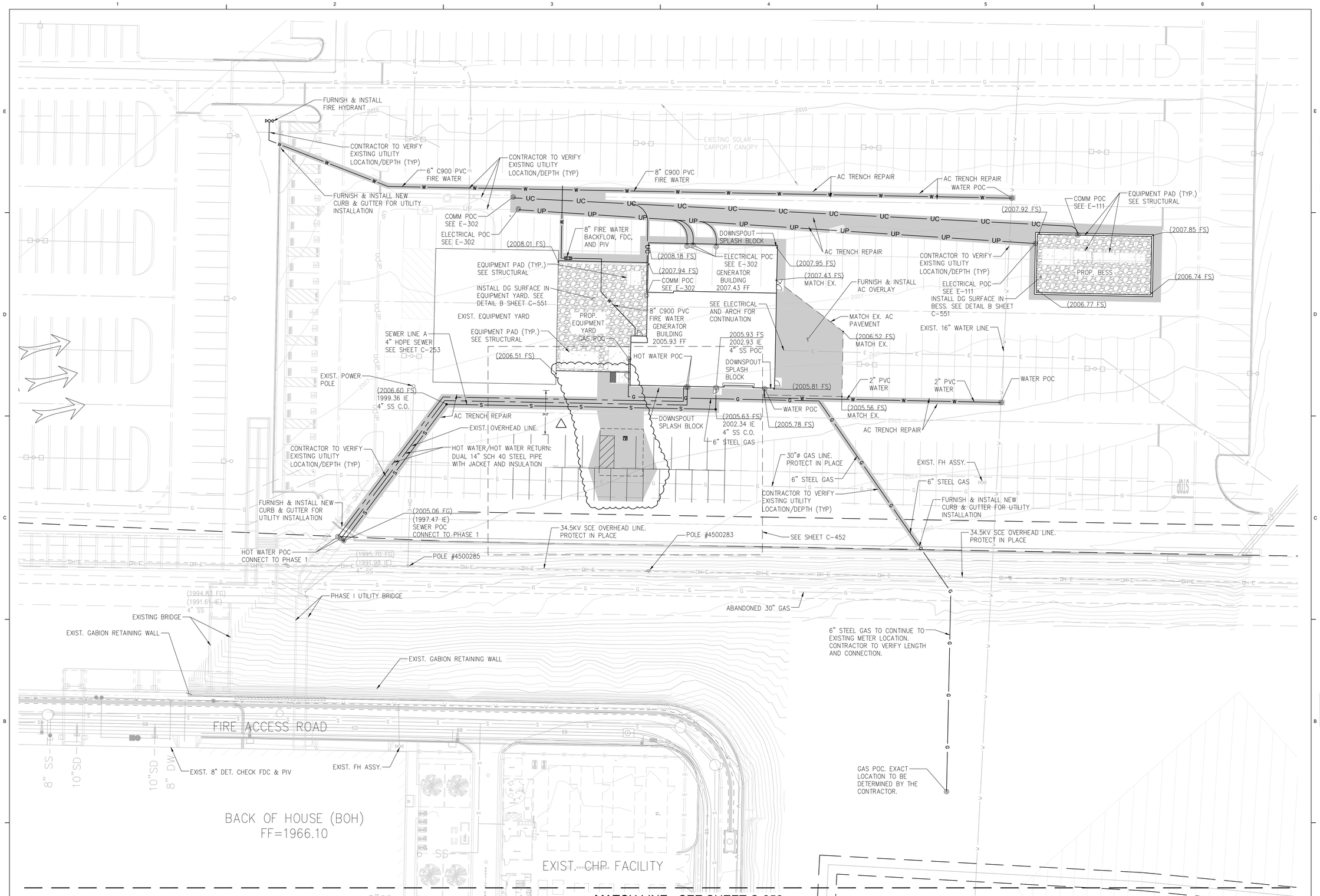
PHASE 2 - IFC 2026.05.27

Sheet Title

PHASE 2
DEMO
PLAN

Sheet No.

C-152



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GAS EASEMENT NOTE

PRIOR TO THE START OF ANY POTHOLING, DEMOLITION, CONSTRUCTION OR OTHER OPERATIONS WITHIN THE EXISTING GAS EASEMENT, THE CONTRACTOR SHALL ENSURE THAT SOUTHERN CALIFORNIA GAS COMPANY HAS A REPRESENTATIVE ONSITE TO MONITOR CONSTRUCTION ACTIVITIES.

PAVEMENT BID ALTERNATES

1. BASE BID - THE UTILITY TRENCHES WILL BE PATCHED BACK AND THERE WILL BE NEW PAINT STRIPING THROUGHOUT THE PARKING AREA FROM THE FIRST SOLAR PANEL DRIPLINE TO THE SOUTH.
2. ALTERNATE 1 - CAP SHEET ALL THE EXISTING PAVING IN THAT AREA SO IT LOOKS NEW AND THEN RE-STRIPE,
3. ALTERNATE 2 - RE-SECTION THE FIRE LANE AN THEN CAP SHEET AND PAINT. ASSUME 5" AC OVER 8" CLASS 2 AGGREGATE BASE FOR FIRE LANE SECTION.

PROPOSED CONDITIONS LEGEND

GAS LINE	G
SANITARY SEWER LINE	S
WATER LINE	W
ELECTRICAL LINE	UP
COMMUNICATION LINE	UC
STORM DRAIN LINE	SD
HOT WATER LINE	—

FIRE GATE VALVE	
FIRE BACK FLOW PREVENTER	
FIRE HYDRANT	
THRUST BLOCK	
SEWER CLEANOUT	
WATER GATE VALVE	
WATER BACKFLOW PREVENTER	

AC PAVEMENT	
CONCRETE (SEE STRUCTURAL)	
GRAVEL SURFACE	

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SCALE: 1"=20'

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PHASE 2 - IFC 2026.08.10

Sheet Title

PHASE 2 UTILITY PLAN

Sheet No.

C-251

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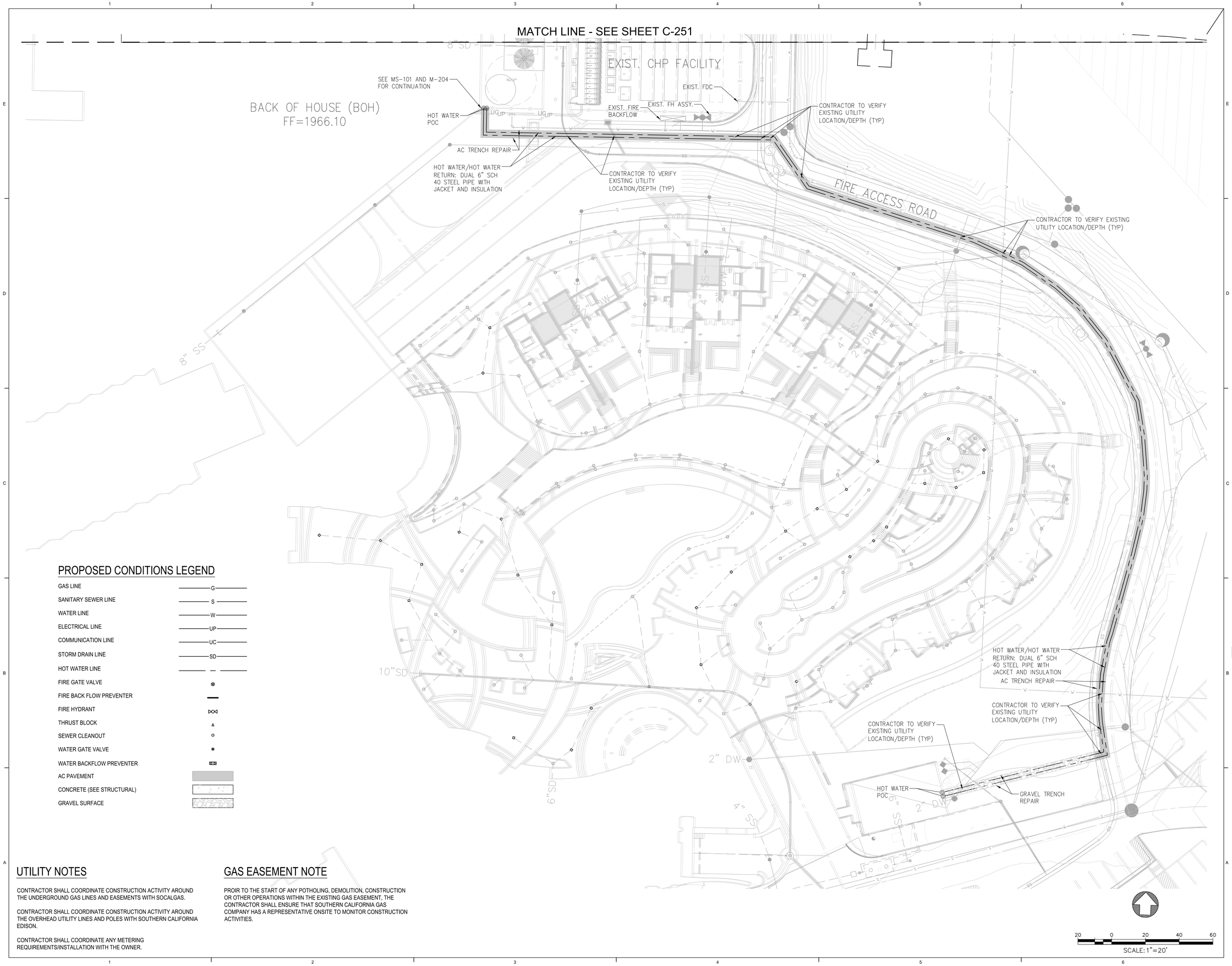
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



PROPOSED CONDITIONS LEGEND

GAS LINE	G
SANITARY SEWER LINE	S
WATER LINE	W
ELECTRICAL LINE	UP
COMMUNICATION LINE	UC
STORM DRAIN LINE	SD
HOT WATER LINE	— —
FIRE GATE VALVE	
FIRE BACK FLOW PREVENTER	
FIRE HYDRANT	
THRUST BLOCK	
SEWER CLEANOUT	
WATER GATE VALVE	
WATER BACKFLOW PREVENTER	
AC PAVEMENT	
CONCRETE (SEE STRUCTURAL)	
GRAVEL SURFACE	

UTILITY NOTES

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE UNDERGROUND GAS LINES AND EASEMENTS WITH SOCALGAS.

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY AROUND THE OVERHEAD UTILITY LINES AND POLES WITH SOUTHERN CALIFORNIA EDISON.

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GAS EASEMENT NOTE

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STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

PHASE 2
UTILITY
PLAN

Sheet No.

C-252

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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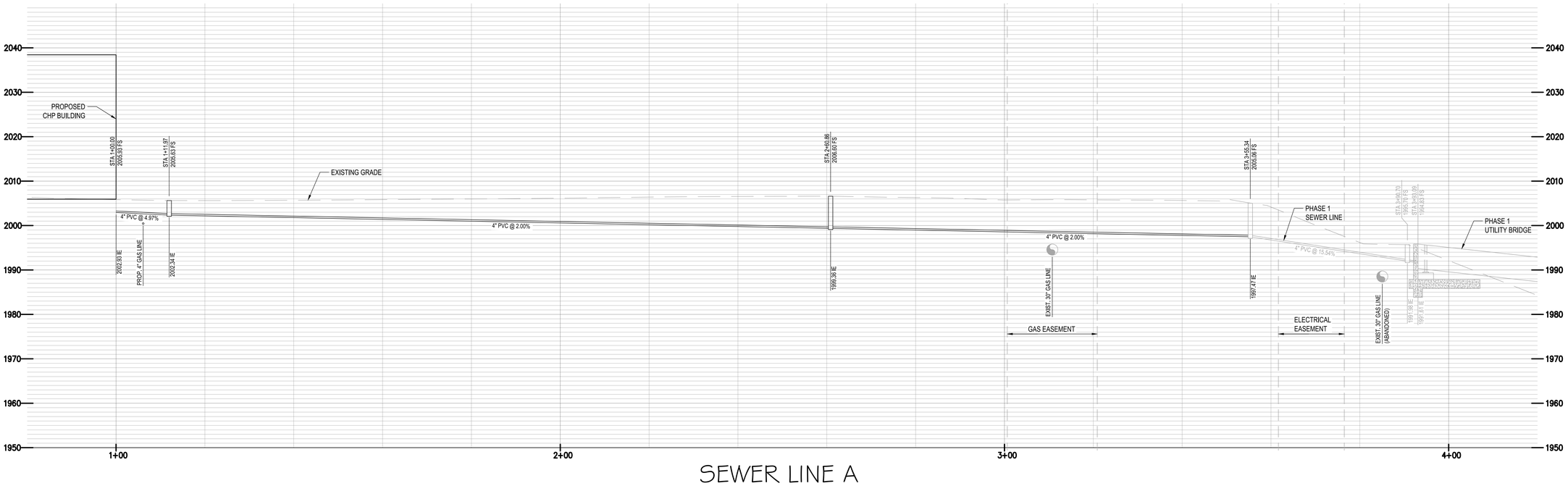

SEWER LINE A

SCALE: HORZ: 1" = 10'
VERT: 1" = 10'

NOTE: PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POTHOLE TO DETERMINE EXISTING UTILITY LOCATION, DEPTHS, AND SIZES AT ALL CROSSING LOCATIONS.

10 0 10 20 30
SCALE: 1"=10'

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JERRY DUNAWAY
No. C54085
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CIVIL
STATE OF CALIFORNIA

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49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

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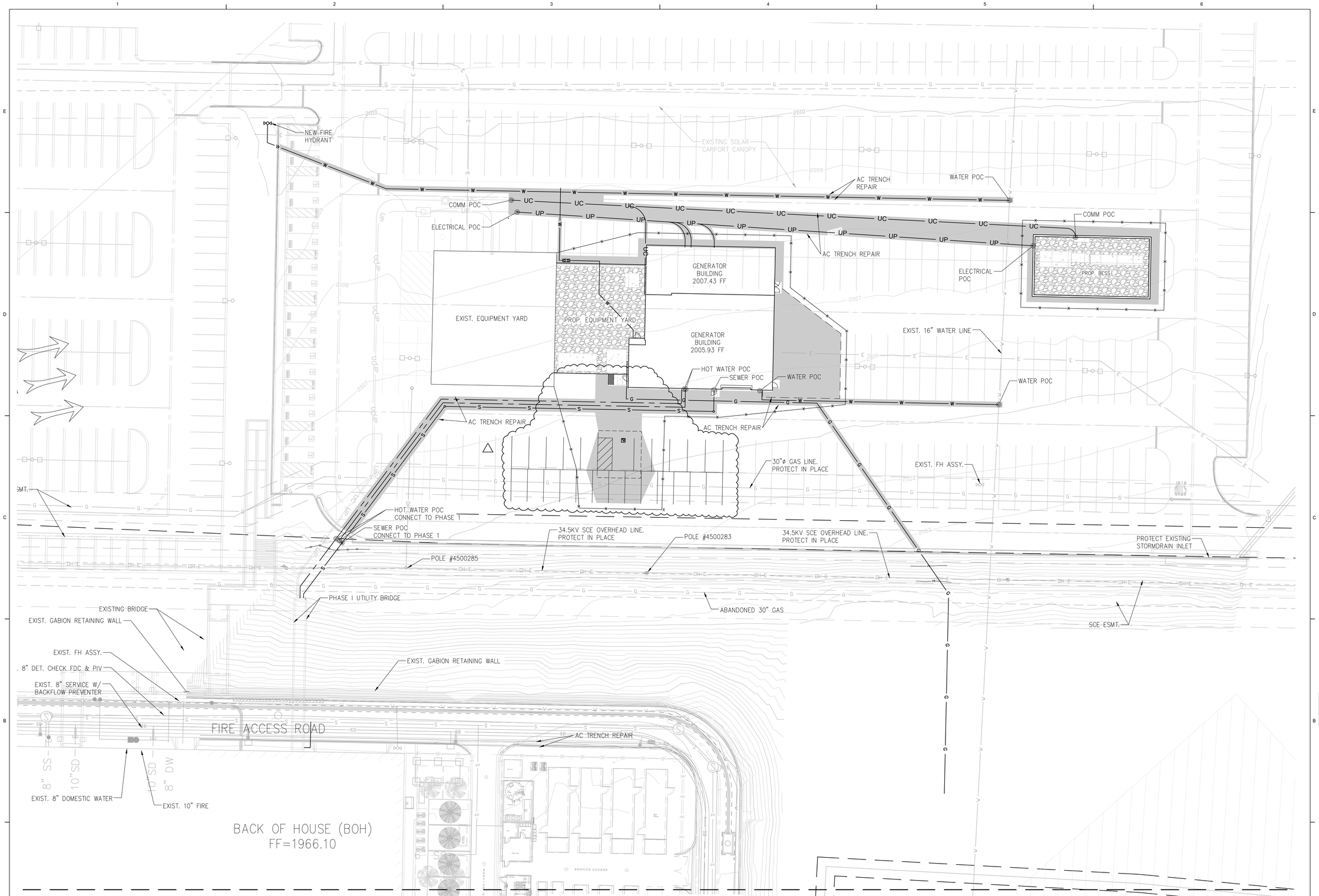
PHASE 2 - IFC 2026.05.27

Sheet Title

PHASE 2 UTILITY PROFILE

Sheet No.

C-253



EROSION CONTROL NOTES

1. POST CONSTRUCTION TEMPORARY BMP EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.
2. MAINTAIN NEWLY PLANTED VEGETATION AND IRRIGATION SYSTEMS FOR ONE YEAR AFTER PROJECT FINAL ACCEPTANCE.
3. SEE CIVIL AND LANDSCAPE PLANS FOR PERMANENT EROSION CONTROL BMPs.

CIVIL EROSION CONTROL LEGEND

- TEMPORARY CHAIN LINK SECURITY FENCING WITH SILT FENCING AT THE BOTTOM.
- SILT FENCE PER CASQA SE-1.
- FIBER ROLLS PER CASQA SE-5.
- VEHICLE ENTRY RUMBLE STRIP.
- CRUSH ROCK, GRAVEL, OR SIMILAR DRIVEWAY AND PARKING LOT.

20 0 20 40 60

SCALE: 1"=20'

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PROJECT NO. 24231

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1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.08.10

Sheet Title

EROSION CONTROL PLAN

Sheet No.

C-351

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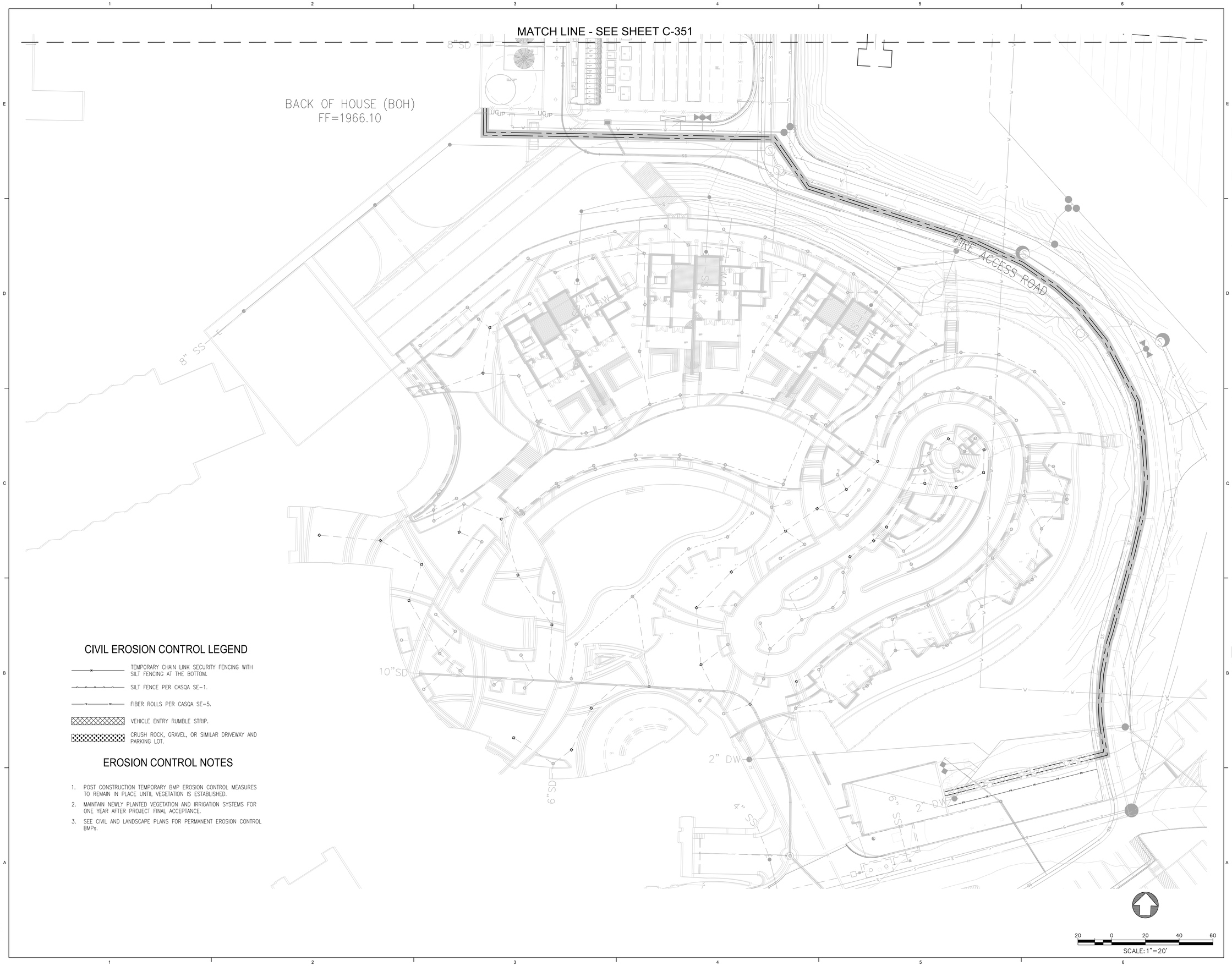

CIVIL EROSION CONTROL LEGEND

- TEMPORARY CHAIN LINK SECURITY FENCING WITH SILT FENCING AT THE BOTTOM.
- SILT FENCE PER CASQA SE-1.
- FIBER ROLLS PER CASQA SE-5.
- VEHICLE ENTRY RUMBLE STRIP.
- CRUSH ROCK, GRAVEL, OR SIMILAR DRIVEWAY AND PARKING LOT.

EROSION CONTROL NOTES

1. POST CONSTRUCTION TEMPORARY BMP EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.
2. MAINTAIN NEWLY PLANTED VEGETATION AND IRRIGATION SYSTEMS FOR ONE YEAR AFTER PROJECT FINAL ACCEPTANCE.
3. SEE CIVIL AND LANDSCAPE PLANS FOR PERMANENT EROSION CONTROL BMPs.

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PHASE 2 - IFC 2026.05.27

Sheet Title

EROSION CONTROL PLAN

Sheet No.

C-352

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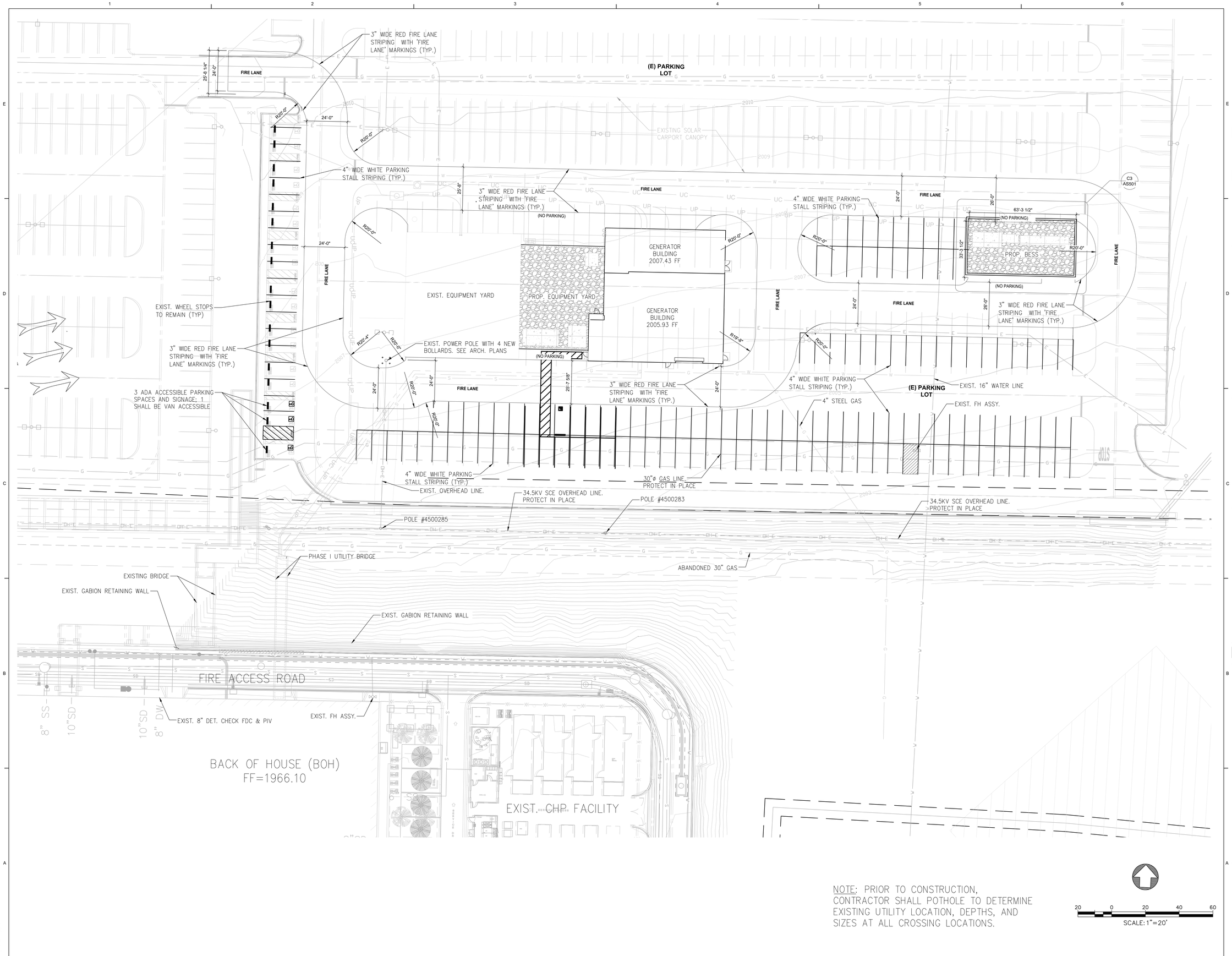

NOTE: PRIOR TO CONSTRUCTION, CONTRACTOR SHALL POTHOLE TO DETERMINE EXISTING UTILITY LOCATION, DEPTHS, AND SIZES AT ALL CROSSING LOCATIONS.

20 0 20 40 60
SCALE: 1"=20'

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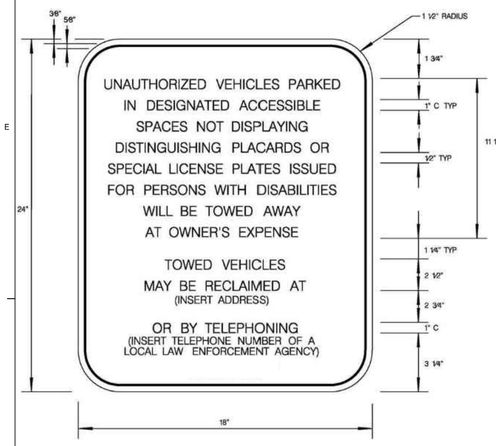
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

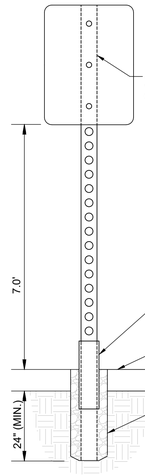
PHASE 2 - IFC 2026.05.27

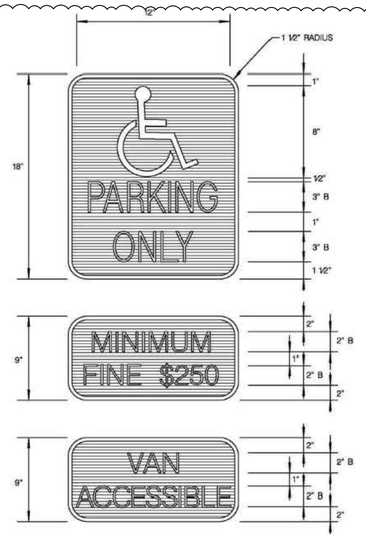
Sheet Title
STRIPING PLAN

Sheet No.
C-401



TOW-AWAY SIGN



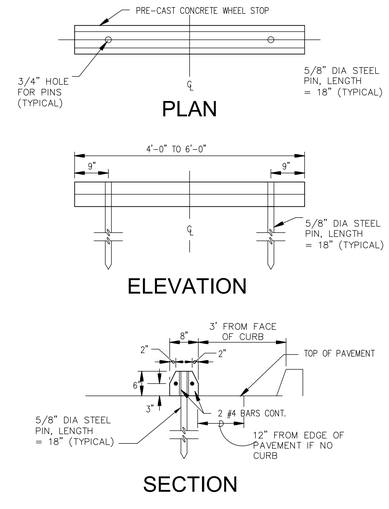


MULTIPLE SIGNS

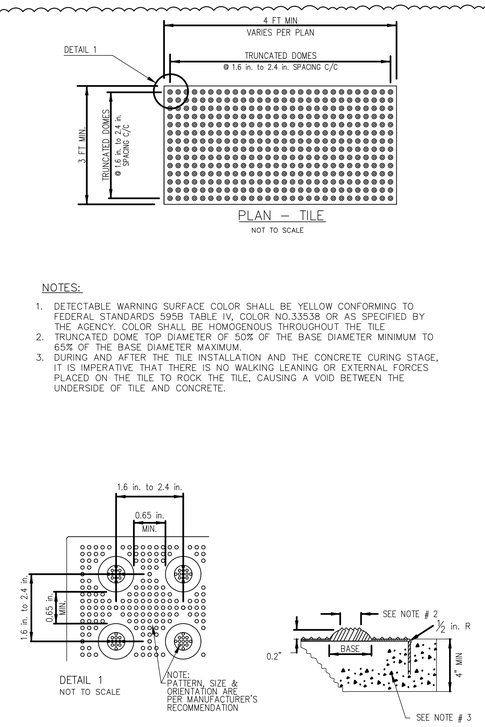
NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL TRAFFIC CONTROL SIGNS, HARDWARE, POSTS, AND APPURTENANCES TO ERECT THE SIGNS AS SHOWN ON THE PLANS AND/OR SPECIFIED. THESE SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA UNIFORM SIGN CHART AS ADOPTED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS).
2. SIGN BLANKS: BLANK MATERIAL SHALL BE MADE OF ALODINE 1200 TREATED ALUMINUM ALLOY 6061-RG OR 5136-H36 MINIMUM GAUGE OF 0.080.
3. SIGN BACKGROUND, LEGENDS, & SYMBOLS: 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING (TYPE ASTM XI) MATERIAL SHALL BE USED FOR THE BACKGROUND OF TRAFFIC SIGNS. LEGEND AND BACKGROUND COLOR OF SIGNS SHALL CONFORM TO THE UNIFORM SIGN CHART. LEGENDS AND/OR SYMBOLS AND BORDERS SHALL BE APPLIED TO THE REFLECTIVE SHEETING MATERIAL EITHER THROUGH THE PROCESS OF SILK SCREENING OR CUT-OUT LETTERS, SYMBOLS, AND BORDERS.
4. SIZE AND STROKE OF LEGEND: LETTERS, NUMBERS, SYMBOLS, BORDERS, SIZE, AND STROKE SHALL CONFORM TO THE LATEST CALTRANS SIGN SPECIFICATIONS.
5. HARDWARE: ALL SIGNS SHALL BE AFFIXED TO POSTS WITH EITHER GALVANIZED OR ALUMINUM HARDWARE NORMALLY AVAILABLE FROM VENDORS OF TRAFFIC SIGNS. THE FACE OF ALL SIGNS SHALL BE PROTECTED BY PLACING EITHER A FIBER OR NEOPRENE WASHER BETWEEN A META WASHER NEXT TO THE BOLT HEAD AND THE SIGN FACE. SIGN BACK BRACE SHALL BE USED ON ANY SIGN 36" X 36" OR LARGER.
6. POST: STEEL POST SHALL BE PROVIDED, UNLESS OTHERWISE INDICATED ON PLANS (2" SQUARE 12 GAUGE STEEL PERFORATED POST).
7. POST SPECIFICATION: BREAKAWAY SIGNPOST SYSTEM SHALL BE "TELSPAR" BY UNISTRUT CORP, OR APPROVED EQUAL. THE BASE POST OR SOCKET SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. NOTE: THE BASE OR POST SOCKET OF ALL SIGNS TO BE ERECTED IN A PAVED SURFACE SHALL BE CENTERED IN A 12" SQUARE BOUND BY A WEAKENED PLAN JOINT.

ACCESSIBLE PARKING SPACE SIGNAGE — N.T.S. — D1



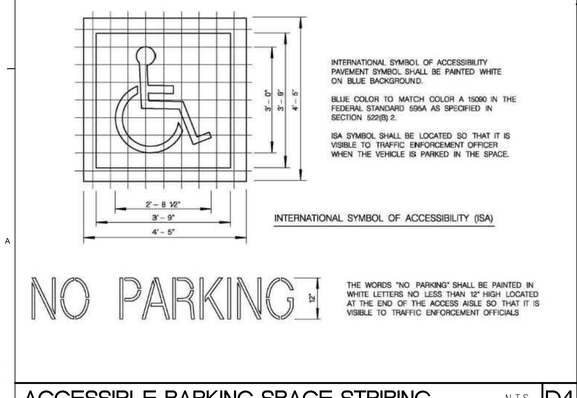
WHEEL STOP — N.T.S. — D2



NOTES:

1. DETECTABLE WARNING SURFACE COLOR SHALL BE YELLOW CONFORMING TO FEDERAL STANDARDS 595B TABLE IV, COLOR NO.33538 OR AS SPECIFIED BY THE AGENCY. COLOR SHALL BE HOMOGENOUS THROUGHOUT THE TILE
2. TRUNCATED DOME TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM.
3. DURING AND AFTER THE TILE INSTALLATION AND THE CONCRETE CURING STAGE, IT IS IMPERATIVE THAT THERE IS NO WALKING LEANING OR EXTERNAL FORCES PLACED ON THE TILE TO ROCK THE TILE, CAUSING A VOID BETWEEN THE UNDERSIDE OF TILE AND CONCRETE.

TRUNCATED DOMES — N.T.S. — D3



INTERNATIONAL SYMBOL OF ACCESSIBILITY PAVEMENT SYMBOL SHALL BE PAINTED WHITE ON BLUE BACKGROUND.

BLUE COLOR TO MATCH COLOR A 15090 IN THE FEDERAL STANDARD 595A AS SPECIFIED IN SECTION 522(B) 2.

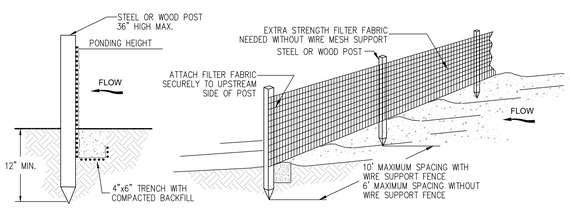
ISA SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICER WHEN THE VEHICLE IS PARKED IN THE SPACE.

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)

NO PARKING 3"

THE WORDS "NO PARKING" SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH LOCATED AT THE END OF THE ACCESS AISLE SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS

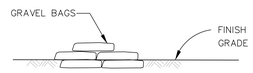
ACCESSIBLE PARKING SPACE STRIPING — N.T.S. — D4



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE FLOW OF SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

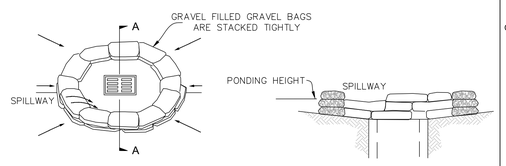
SILT FENCE — N.T.S. — C1



NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.

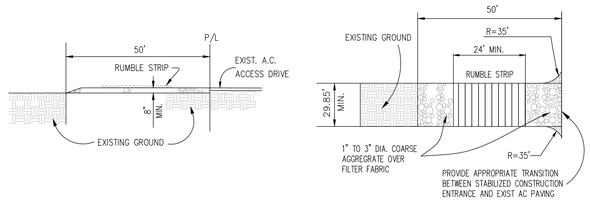
SAND BAG BARRIER — N.T.S. — C3



NOTES:

1. GRAVEL BAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
2. LEAVE ONE GRAVEL BAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

GRAVEL BAG INLET PROTECTION — N.T.S. — C4



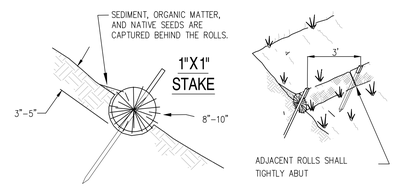
PROFILE

PLAN

NOTES:

1. PROVIDE CONSTRUCTION ENTRANCE FOR EACH SITE DURING CONSTRUCTION. CONSTRUCTION ENTRANCES MUST BE PLACED IN ACCORDANCE WITH GOVERNING REGULATIONS. CONSTRUCTION ENTRANCES MUST BE LOCATED TO ENSURE ALL CONSTRUCTION VEHICLES CROSS OVER THE ENTRANCE PRIOR TO ARRIVING OR LEAVING EACH CONSTRUCTION SITE.

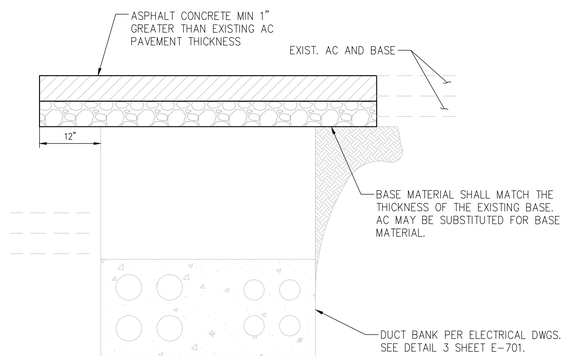
CONSTRUCTION ENTRANCE/EXIT — N.T.S. — A1



NOTE:

1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

FIBER ROLL — N.T.S. — A2



AC TRENCH RESURFACING — N.T.S. — B

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Sheet Title

CIVIL DETAILS

Sheet No.

C-451

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ADA PARKING REQUIREMENTS

1. THE SURFACE OF THE ENTIRE AREA OF THE ACCESSIBLE PARKING SPACE AND ACCESS AISLE SHALL HAVE A SLOPE OF LESS THAN 1.5% IN ANY DIRECTION.

1.1. GUTTERS AND SWALES SHALL NOT BE INCLUDED IN THE OVERALL DIMENSIONS OF THE ACCESSIBLE PARKING SPACE AND ACCESS AISLE.

1.2. THE SURFACE SLOPE OF THE AREA IMMEDIATELY SURROUNDING THE ACCESSIBLE PARKING SPACE SHALL BE 1.5% FOR A WIDTH OF 4.00 FT.

1.3. ADEQUATE DRAINAGE SHALL BE PROVIDED SO THAT WATER DOES NOT ACCUMULATE WITHIN THE ACCESSIBLE PARKING SPACE AND ACCESS AISLE.

1.4. VERTICAL CLEARANCE - PARKING SPACES FOR VANS AND ACCESS AISLE(S) AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 96" MINIMUM.

2. ACCESS AISLES (LOADING AND UNLOADING AREAS) SHALL BE PROVIDED FOR THE ACCESSIBLE PARKING SPACE.

2.1. THE ACCESS AISLE SHALL BE CONNECTED TO AN ACCESSIBLE ROUTE.

2.2. THE ACCESS AISLE SHALL BE PLACED ON THE SIDE OPPOSITE THE DRIVERS SIDE WHEN THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE (I.E. PASSENGER SIDE OF VEHICLE.)

3. THE ACCESSIBLE PARKING SPACE SHALL BE LOCATED SO THAT PERSONS WITH DISABILITIES ARE NOTE COMPELLED TO WHEEL OR WALK BEHIND PARKING SPACES OTHER THAN THEIR OWN.

4. IF THE ACCESSIBLE ROUTE CROSSES OR ADJOINS THE VEHICULAR WAY AND THE WALKING SURFACE IS NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY 36" WIDE DETECTABLE WARNING TILES.

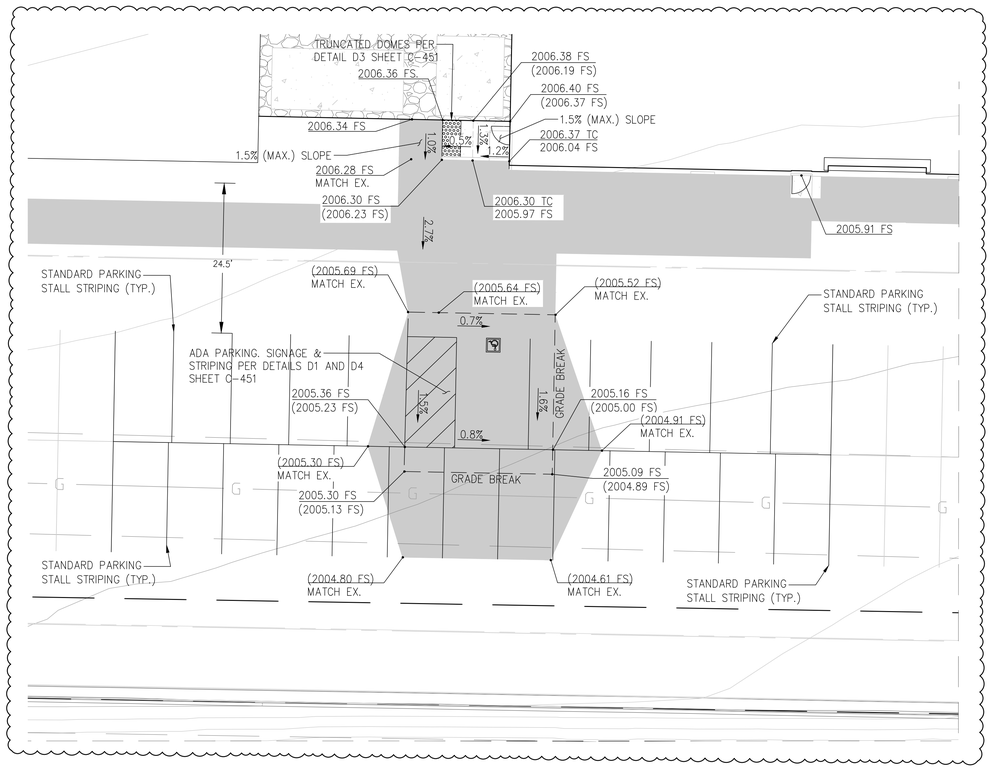
5. SIGNAGE:

5.1. PAVEMENT PARKING SIGNS SUCH AS THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AND "NO PARKING" AT THE ACCESS AISLES SHALL BE PLACED SO THAT THEY ARE VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS WHEN THE VEHICLE IS PARKED PROPERLY.

5.2. WHEN POSTED IN A PATH OF TRAVEL, THE SIGN SHALL BE MOUNTED 80".

5.3. A TOW AWAY SIGN SHALL BE INSTALLED AND VISIBLE AT EACH ENTRANCE TO THE OFF-STREET PARKING FACILITY OR MIMEDIATELY ADJACENT TO THE ACCESSIBLE PARKING SPACE.

5.4. IN EACH PARKING AREA, A WHEEL STOP SHALL BE PROVIDED TO PREVENT VEHICLES FROM HITTING THE SIGN POST.



PROPOSED CONDITIONS LEGEND

GAS LINE	G	FIRE GATE VALVE	AC PAVEMENT
SANITARY SEWER LINE	S	FIRE BACK FLOW PREVENTER	CONCRETE (SEE STRUCTURAL)
WATER LINE	W	FIRE HYDRANT	GRAVEL SURFACE
ELECTRICAL LINE	UP	THRUST BLOCK	
COMMUNICATION LINE	UC	SEWER CLEANOUT	
STORM DRAIN LINE	SD	WATER GATE VALVE	
HOT WATER LINE		WATER BACKFLOW PREVENTER	

10 0 10 20 30

SCALE: 1"=10'

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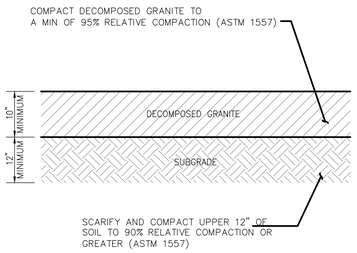
PHASE 2 - IFC 2026.08.10

Sheet Title

ADA PARKING DETAIL

Sheet No.

C-452

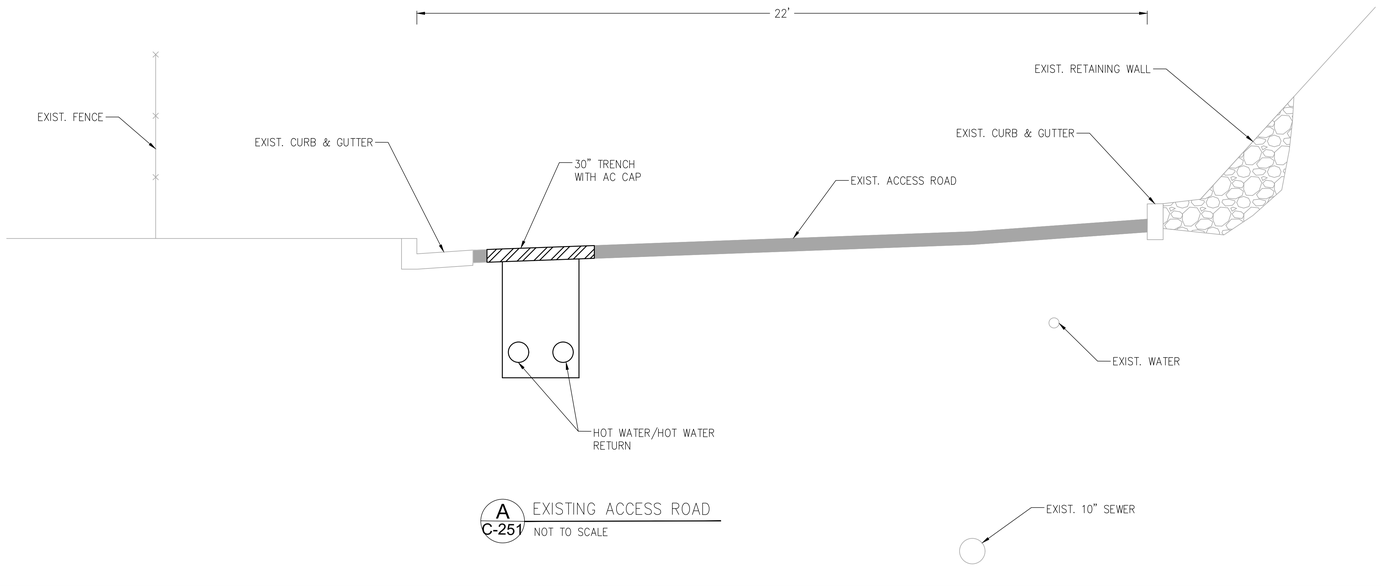


NOTES:

1. PAVEMENT SECTIONS WITH CLASS II BASE FOLLOW CALTRANS RECOMMENDATIONS, TABLE 5.11B, FROM CTE GEOTECHNICAL REPORT.
2. PAVEMENT SECTIONS WITH AGGREGATE BASE COURSE (ABC) FOLLOW UFC/PCASE RECOMMENDATIONS, TABLE 5.11A, FROM CTE GEOTECHMICAL REPORT.
3. ALL ABC MUST HAVE A MINIMUM CBR OF 50.
4. GEOTECHNICAL ENGINEER MUST APPROVE FINAL PAVEMENT SECTIONS BASED ON FIELD OBSERVATIONS DURING CONSTRUCTION PRIOR TO PLACEMENT.

DECOMPOSED GRANITE SECTION

N.T.S. | B



A / C-251 EXISTING ACCESS ROAD
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CONSTRUCTION ENTRANCE/EXIT

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
CROSS SECTIONS

Sheet No.
C-551

8/22/2025 11:24:04 AM
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ABBREVIATION

AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
ACI	AMERICAN CONCRETE INSTITUTE
ADJ	ADJACENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALUMINUM
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
@	AT
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BM	BEAM, BENCH MARK
BO	BOTTOM OF
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BRDG	BRIDGING
BS	BOTH SIDES
BSMT	BASEMENT
C	CHANNEL, COMPRESSION
CAB	CRUSHED AGGREGATE BASE
CBC	CALIFORNIA BUILDING CODE
C/C	CENTER TO CENTER
CCJ	CRACK CONTROL JOINT
CIP	CAST IN PLACE
CIRC	CIRCUMFERENCE, CIRCUMFERENTAL
CJ	CONSTRUCTION JOINT, CONTROL JOINT
CLR	CLEAR (ANCE)
CMU	CONCRETE MASONRY UNIT
CO	CONCRETE OPENING
COL	COLUMN
CONC	CONCRETE, CONCENTRATED
CONST	CONSTRUCT (ION) (ED)
CONT	CONTINUE, CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER
CY	CUBIC YARD
D	DEPTH, DEEP
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DIA.	DIAMETER
DIAG	DIAGRAM, DIAGONAL
DIM	DIMENSION (ED)
DO	DITTO
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT, (ED)
ENG	ENGINEER, (ING)
EQ	EQUAL, EQUILIBRIUM
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERNAL, EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FFL	FINISH FLOOR
FG	FINISHED GRADE
FT	FOOT, FEET
FTG	FOOTING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GL	GLULAM
GR	GRADE, GRAVEL, GRANULAR
GYP	GYPSUM
H	HIGH, HEIGHT
HR	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH POINT
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTIONS
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH (ES)
INT	INTERIOR, INTERMEDIATE
ICC(ICBO)	INTERNATIONAL CODE COUNCIL AKA ICBO
JT	JOINT
L	LONG, LENGTH, ANGLE
Ld	DEVELOPMENT LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LVL	LEVEL (ING)
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE (R) (ED)
MID	MID, MIDDLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER (S)
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OP, OPNG	OPENING
PC(S)	PIECE(S)
PEN	PENETRATION
PERIM	PERIMETER
PL	PROPERTY LINE, PLACE (D)
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RD	ROOD DRAIN
RE	REFER TO
RECT	RECTANGULAR
REF	REFERENCE
REIF	REINFORCE (D), REINFORCING
REQ'D	REQUIRED
REV	REVISION, REVISED
RO	ROUGH OPENING
R	RADIUS, RADIAL (LY), RISER, REACTION
SCH	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SF	SQUARE FOOT, SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPC	SPACE, SPACING
SPEC	SPECIFICATION
SQ	SQUARE
ST	STEEL
SST	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
SYM	SYMMETRY, SYMMETRICAL
T	TOP, TENSION, TORSION
T & B	TOP AND BOTTOM
TC	TOP CHORD
TEMP	TEMPORARY, TEMPERATURE
THK	THICKNESS, THICK
TO	TOP OF
TOC	TOP OF CONCRETE (SLAB, BEAM, COLUMN, ETC)
TOF	TOP OF FOOTING
TOG	TOP OF GRAVEL GRATING, GROUT
TOGB	TOP OF GRADE BEAM
TOM	TOP OF MASONRY WALL
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TUBE STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VER	VERIFY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDTH, WIDE, WEST
W/	WITH
WD	WOOD
WF	WIDE FLANGE
W/O	WITHOUT
WP	WATERPROOFING, WORK POINT
WS	WATERSTOP
WSD	WORKING STRESS DESIGN
WT	WEIGHT, WIDE FLANGE TEE
WWF	WELDED WIRE FABRIC

DESIGN STANDARD

CALIFORNIA BUILDING CODE (CBC) (2002).

MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-19).

BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/602-16).

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-19

AISC-(15TH EDITION) STEEL CONSTRUCTION MANUAL

STEEL DECK INSTITUTE DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS

STRUCTURAL WELDING CODE, AWS D1.1 AND D1.3

DESIGN CRITERIA

DESIGN LOADING

1. DEAD LOAD:
   ROOF DL = 50 PSF (WITHOUT EQUIPMENT)
   ROOF DL = 115 (INCLUDE 6" NW CONCRETE PAD FOR EQUIPMENT)
   FLOOR / MEZZANINE DL = 73 PSF
   INCLUDE SELF-WEIGHT.

2. LIVE LOAD:
   MECHANICAL EQUIPMENT — PROVIDED BY MANUFACTURER
   FLOOR / MEZZANINE LL - LIGHT STORAGE — 125 PSF
   ROOF LL — 20 PSF

3. SEISMIC LOAD:
   SITE CLASS: D
   SDS = 1.441
   SD1 = 1.036
   RISK CATEGORY: II
   IMPORTANCE FACTOR: I = 1.0
   COMPONENT IMPORTANCE FACTOR: I_P = 1.0
   SEISMIC DESIGN CATEGORY = E

4. WIND LOAD: WIND LOAD PER ASCE/SEI 7 (2019).

5. BASIC WIND SPEED: 96 MILES PER HOUR (MPH), EXPOSURE C.

6. EARTHQUAKE LOADS: FOR UTILITY BRIDGE: STRUCTURAL RESISTING SYSTEM IS ALL STEEL & REINFORCED CONCRETE WITH R=2 (ASCE7).

7. THE DESIGN IS BASED ON ESTIMATED EQUIPMENT WEIGHT INFORMATION ONLY AND EXCLUDES PAD AND FOOTING REQUIREMENTS. THE DESIGN MAT BE REVISED UPON RECEIPT OF FINAL REQUIREMENTS.

MATERIALS AND STRENGTH

CONCRETE SCHEDULE

ITEMS	28 DAY COMPRESSIVE CYLINDER STRENGTH			REMARKS
	3000 PSI	4000 PSI	5000 PSI	
FOUNDATION, UNDERGROUND WALLS, INVERT SLABS, ROOF SLABS		●		TYPE V PORTLAND CEMENT
SLAB ON GRADE AND NEW PADS		●		TYPE V PORTLAND CEMENT

NOTE:
CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ALL CONCRETE PLACEMENT WHERE THE SPECIFIED COMPRESSIVE STRENGTH, f_c', IS GREATER THAN 2,500 PSI, IN ACCORDANCE WITH CBC 1705.3. THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL EMPLOY A QUALIFIED SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

REINFORCING STEEL

ASTM A615, GRADE 60

ASTM A706, GRADE 60 - REINF FOR CONC WALLS OR INDICATED TO BE WELED

STRUCTURAL STEEL

BEAMS & COLUMNS - ASTM A992, GRADE 50 OR A572, GRADE 50.

PLATES - ASTM A572 GRADE 50, TUBES A500 GRADE B: FY = 46 KSI

ANGLES - ASTM A36

EARTHWORK

GEOTECHNICAL REPORT:	BY: ENGEO INCORPORATED DATE: SEPTEMBER 10, 2025 PROJECT NO: 28791.000.001
ALLOWABLE SOIL PRESSURE:	3,000 PSF
FOOTING EMBEDMENT:	MINIMUM 24" EMBEDMENT
PASSIVE LATERAL RESISTANCE:	350 PCF
COEFFICIENT OF FRACTION:	0.30
EARTH PRESSURE LOAD:	

BACKFILL SLOPE CONDITION (HORIZONTAL : VERTICAL)	ACTIVE PRESSURE (POUND PER CUBIC FOOT)
LEVEL	40
3:1	50
2:1	60

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA92230

PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
GENERAL NOTES

Sheet No.
S-000

GENERAL NOTES

GENERAL

1. COORDINATE DIMENSIONS, OPENINGS, EMBEDDED ITEMS, AND CONDITIONS WITH EQUIPMENT, MECHANICAL, AND ELECTRICAL DRAWINGS. NOT ALL ITEMS ARE INDICATED ON STRUCTURAL DRAWINGS. NOTIFY ENGINEER OR DISCREPANCIES. THE CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION ALL DIMENSIONS ESTABLISHED BY OR RELATED TO EQUIPMENT AND INSTRUMENTS INDICATED ON OTHER DRAWINGS.
2. ALL DETAILS ARE TYPICAL INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHETHER OR NOT SPECIFICALLY INDICATED. NOT ALL ABBREVIATIONS INDICATED ON THIS STANDARD SHEET ARE USED IN THE PROJECT.
3. PROVIDE TEMPORARY SUPPORT DURING CONSTRUCTION AS REQUIRED, UNTIL STRUCTURAL ELEMENTS ARE PERMANENTLY ATTACHED. DRAWINGS INDICATE STRUCTURE IN FINAL FORM CAPABLE OF SUPPORTING DESIGN LOADS.
4. DO NOT SCALE DRAWINGS.
5. SUBMIT STRUCTURAL CALCULATIONS FOR PRE MANUFACTURED ITEMS BEARING THE DEAL OF A QUALIFIED REGISTERED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
6. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES INDICATED ON THE DRAWINGS. FIELD MEASUREMENT OF DIMENSIONS AND ELEVATIONS OF EXISTING AFFECTED ITEMS SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION.

ALUMINUM

1. ALL ALUMINUM PLATES AND ALUMINUM STRUCTURAL MEMBERS SHALL BE ALLOY 6061-T6. UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR CORROSION PROTECTION.
   A. ALL CONNECTION BOLTS SHALL BE 3/4" DIAMETER TYPE 316 STAINLESS STEEL, UNO.
   B. COAT ALL SURFACES OF ALUMINUM WHICH COME IN CONTACT WITH CONCRETE WITH BITUMINOUS COMPOUND.
   C. PLACE INSULATING GASKET BETWEEN ALUMINUM AND STEEL.
   D. GRIND SMOOTH ALL SHARP EDGES.
2. PLATFORMING MATERIAL SHALL BE SWAGED BAR GRATING. BAND ALL EDGES AT OPENINGS. ATTACHMENT OF GRATING AT SUPPORT SHALL BE SUPPORTED PER THE MANUFACTER'S RECOMMENDATIONS AND INSTRUCTIONS.

STRUCTURAL AND MISCELLANEOUS STEEL

1. ALL STRUCTURAL MEMBERS SHALL BE FABRICATED BY AISC CERTIFIED FABRICATORS.
2. ALL WELDING SHALL MEET AWS SPECIFICATIONS USING E70XX ELECTRODES.
3. CONTINUOUS INSPECTION IS REQUIRED FOR THE FOLLOWING, UNLESS OTHERWISE NOTED ON PLAN:
   A. ALL FIELD WELDINGS OF STRUCTURAL STEEL.
   B. PLACEMENT OF ROOF BEAMS.
   C. STEEL DECK WELDING.
4. SHOP WELD AND FIELD BOLT CONNECTIONS UNLESS OTHERWISE INDICATED ON DRAWINGS.
   FOR BOLT CONNECTIONS PROVIDE 3/4" DIA ASTM A325-SC.
   PROVIDE MIN TWO BOLTS PER CONNECTION.
   PROVIDE ASTM A307 ANCHOR BOLTS.
   PROVIDE ASTM A563 NUTS W/ - ASTM F436 HARDENED STEEL WASHERS.
   PROVIDE STAINLESS STEEL TYPE 316 ANCHOR BOLTS USE IN CORROSIVE ENVIRONMENT, BURIED OR SUBMERGED CONDITION.
5. SPACE BEAMS EQUALLY BETWEEN COLUMN LINES AND GIRDERS UON.
6. TOS - BOTTOM OF METAL DECK TYP UON.
7. TEMPORARY ERECTION BRACING SHALL BE PROVIDED TO HOLD STRUCTURAL STEEL SECURELY IN POSITION AS DESCRBED ON THE DRAWINGS. IT SHALL NOT BE MOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED. THE STRUCTURE SHALL BE PLUMB AND TRUE BEFORE CONNECTIONS MAY BE FINALLY BOLTED OR WELDED.
8. ANCHOR BOLTS, BASE PLATES OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK. PRESET BY TEMPLATES OR SIMILAR METHODS. ALL PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK MORTAR OR GROUT. ALL POCKETS FOR COLUMNS AND BEAMS MUST BE COMPLETELY FILLED PRIOR TO PLACING FRAMING ABOVE.

METAL DECKING

1. METAL DECKING SHALL CONFORM TO ASTM A36, A653, A780, A1008, C1513, D746 AND D1056.
2. WELDING REQUIREMENTS SHALL CONFORM TO AWS D1.1 AND D1.3.
3. METAL DECKING SHALL BE DESIGNED IN ACCORDANCE WITH STEEL DECK INSTITUTE SD131.
4. METAL DECKING SHALL BE DESIGNED TO MEET ALLOWABLE UNIFORM LOADING AND MEET MAXIMUM DEFLECTION CRITERIA OF L/240 FOR SERVICEABLE LOADS.

FOUNDATION AND EARTHWORK

1. THE SOILS REPORT INDICATED TOGETHER WITH RELATED ADDENDA ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
2. PERFORM EARTHWORK ACCORDING TO THE REQUIREMENTS OF THE SOILS REPORT INCLUDING BUT NOT LIMITED TO:
   A. SUBGRADE PREPARATION.
   B. EXCAVATION PROCEDURES.
   C. SHORING EXCAVATIONS.
3. ON-SITE SOILS MAY BE USED AS COMPACTED STRUCTURAL BACKFILL MATERIAL PROVIDE THEY ARE FREE OF ORGANIC MATERIAL, DEBRIS, AND OVERSIZED MATERIAL. SOILS TO BE PLACED AS BACKFILL MATERIAL, WHETHER ON SITE OR IMPORTED, SHALL MEET THE REQUIREMENTS SPECIFIED IN AREMA 2022, POLB ENVIRONMENTAL REQUIREMENTS, AND BE APPROVED BY GEOTECHNICAL ENGINEER OF RECORD.
4. REMOVE AND DISPOSE OF ANY LAYER OF CLAY OR SILT IF ENCOUNTERED DURING EXCAVATION.
5. COMPACTION REQUIREMENTS:
   BELOW FOOTING - PER ASTM D-1551-79 95 PERCENT MAX DRY DENSITY
   BELOW STRUCTURAL SLAB - 95 PERCENT
   BENEATH PAVEMENT - 95 PERCENT
   UNPAVED AREAS - 90 PERCENT
   MAXIMUM LIFT - 8" LOOSE DEPTH
6. PLACE BOTTOM OF FOOTINGS AT A MINIMUM OF 2'-0" BELOW ADJACENT GRADE OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWEST, UNLESS OTHERWISE NOTED ON DRAWINGS.
7. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR AND SOIL ENGINEER PRIOR TO PLACEMENT OF FOOTING REINFORCEMENT.
8. ALL WATER AND LOOSE MATERIAL SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO CONCRETE PLACEMENT.
9. FOUNDATIONS AS INDICATED ARE FOR BIDDING PURPOSES ONLY AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS UNCOVERED DURING CONSTRUCTION.

CAST IN PLACE CONCRETE

1. ALERT INSPECTOR 24 HOURS MINIMUM BEFORE PLACING CONCRETE.
2. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE PER CONCRETE SCHEDULE ON SHEET S-000
3. TYPE V PORTLAND CEMENT SHALL BE USED IN CONCRETE MIX.
4. SECURE REINFORCING BARS, ANCHOR BOLTS AND EMBEDDED ITEMS PRIOR TO PLACING CONCRETE. BEFORE PLACEMENT, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, HOLDDOWNS, ETC. RELATING TO WORK.
5. FABRICATE SLEEVES FOR UTILITY LINES THROUGH BEAMS AND ELEVATED SLABS FROM STANDARD WEIGHT STEEL PIPE, UNLESS OTHERWISE NOTED. NO LONGITUDINAL SLEEVES PERMITTED THROUGH BEAMS OR COLUMNS.
6. CHAMFER EXPOSED CORNERS 3/4" UNLESS OTHERWISE NOTED.
7. ALL REINFORCEMENT SPLICES SHALL BE AS INDICATED IN SPLICING SCHEDULE. ALL REINFORCING INDICATED AS CONTINUOUS SHALL BE LAPPED 36 DIAMETERS MINIMUM OR TWO FEET MINIMUM WHICHEVER IS LONGER. SPLICE HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS. SEE TABLE ON DETAIL 3/ S-505 FOR DEVELOPMENT LENGTH AND LAP SPLICE LENGHT.
8. ELECTRICAL CONDUIT: PLACE NEAR CENTER OF SLABS AND WALLS.
9. MINIMUM CONCRETE COVER (UNLESS OTHERWISE NOTED):
   A. CONCRETE EXPOSED TO EARTH:.....3"
   B. CONCRETE EXPOSED TO WEATHER OR LIQUID:
      a. SLABS, WALLS AND JOINTS.....2"
      b. BEAMS AND COLUMNS:
         PRIMARY REINFORCEMENT.....2-1/2"
         STIRRUPS, SPIRALS AND TIES.....2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR LIQUID:
      a. SLABS, WALLS AND JOINTS.....2-1/2"
      b. BEAMS AND COLUMNS:
         PRIMARY REINFORCEMENT.....2"
         STIRRUPS, SPIRALS AND TIES.....1-1/2"
10. ALL ANCHOR BOLTS AND EXPANSION ANCHORS SHALL BE TYPE 316 SST.
    ALL ADHESIVE ANCHORS SHALL BE ONE OF FOLLOWING, OR EQUAL.
    - HILTI HY-200 INJECTION ADHESIVE (ESR - 4879).
    - HILTI RE-500SD EPOXY ADHESIVE (ESR - 3814)
    - SIMPSON SET - XP EPOXY ADHESIVE (ESR - 2508)
11. DETAILING: PER ACI DETAILING MANUAL, LATEST EDITION, UNLESS OTHERWISE NOTED.
12. PROVIDE 2"x4" KEYS AT CONSTRUCTION JOINT AS INDICATED.
13. CONCRETE SLAB ON METAL DECK, CONCRETE WITH A MAXIMUM AIR DRY DENSITY OF 145 PCF.
14. OTHER CONCRETE NORMAL WEIGHT WITH A NOMINAL AIR DRY DENSITY OF 145 PCF.
15. PLACE CONCRETE SLABS INCLUDING SLABS ON METAL DECK SUCH THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.
    (THIS WILL REQUIRED THAT SLABS NOT BE CAST DEAD LEVEL WHERE SUPPORTING BEAMS AND GIRDERS HAVE AN UPWARD CAMBER).
16. UNLESS SPECIFIED OTHERWISE, THE LENGTH OF LAP CLASS B FOR SPLICES SHALL BE AS FOLLOWING:

	TOP BAR*						
	#4	#5	#6	#7	#8	#9	#10	#11
LENGTH (INCHES)	25	33	49	71	81	91	102	114
	OTHER BARS*							
	#4	#5	#6	#7	#8	#9	#10	#11
LENGTH (INCHES)	19	25	31	54	62	70	79	87

    * TOP BARS ARE ALL HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THAT BAR.
    NOTE: CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI.
17. LEAN CONCRETE REPRESENTS CONCRETE WITHOUT REINFORCEMENT.
18. ADHESIVE ANCHOR BOLTS PLACED IN CONCRETE SHALL BE IN ACCORDANCE WITH ICC REPORT AS STATED IN NOTE 10.

MASONRY

1. CONCRETE BLOCK SHALL BE 12" CMU MEDIUM WEIGHT AND SHALL CONFORM TO ASTM C90. TYPE 1 (GRADE N-1) MINIMUM COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 2,000 PSI.
2. CEMENT SHALL CONFORM TO ASTM SPECIFICATION C150.
3. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A-615, GRADE 60.
4. ALL REINFORCING STEEL SHALL BE LAPPED PER SECTION 6.1.5.1.1 OF THE TMS 402 / 602 MASONRY CODE. SEE TABLE ON SHEET S-505 FOR DEVELOPMENT LENGTH AND LAP SPLICE LENGTH.
5. ALL CELLS SHALL BE GROUTED AND SPECIAL INSPECTED, GROUT SHALL BE PLACED IN MAXIMUM FOUR (4) FOOT LIFTS. GROUT ULTIMATE COMPRESSIVE STRENGTH SHALL BE 2000 PSI.

METAL STUD WALL

1. NON-BEARING WALLS:
   PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR NON-BEARING METAL STUD WALLS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
2. SUBMITTALS SHALL INCLUDE STUD SIZE, SPACING, TRACK DETAILS, CONNECTION DETAILS, AND DESIGN LOADS.
3. INTERIOR METAL STUD PROPERTIES SHALL BE AS FOLLOWS.

GAUGE	STUD SIZE	SECTION	MIN. MOMENT OF INERTIA I_x (IN^4)	MAXIMUM HEIGHT (2) GYP. BD. FIN. (3) @ 16" O.C.	MAXIMUM HEIGHT (2) GYP. BD. FIN. (3) @ 24" O.C.	STUD FLANGES LATERAL SUPPORT (5)
18 (0.0451")	4"	400S137-43	0.776	19'-8"	17'-2"	4'-0"
	6"	600S137-43	2.042	27'-2"	23'-8"	4'-0"
16 (0.0566")	4"	400S137-54	0.953	21'-1"	18'-5"	4'-0"
	6"	600S137-54	2.518	29'-1"	25'-5"	4'-0"
20 (0.0346")	4"	400S137-33	0.603	19'-8"	17'-2"	4'-0"
	6"	600S137-33	1.582	24'-11"	21'-9"	4'-0"

NOTES:

1. ALL STUD CONSTRUCTIONS SHALL CONFORM TO ICC REPORT ER-3064 BY SSMA.
2. STUDS ARE SPACES AS LISTED, MAXIMUM HEIGHT INDICATES THE MAXIMUM STUD SPAN BETWEEN FLOOR TO FLOOR OR FLOOR TO ROOF.
3. ALL STUD WALLS W/ ONLY GYPSUM BOARD FINISH, THE DESIGN IS BASED ON LATERAL LOADS OF 5 P.S.F.
4. ALL STUD WALLS WITH ONLY PLASTER FINISH OR THE COMBINATIONS OF GYPSUM BOARD FINISH AND PLASTER FINISH, THE DESIGN IS BASED ON LATERAL LOADS OF 5 P.S.F.
5. STUD FLANGES LATERAL SUPPORTS PER DETS. 4/S-503 THRU 6/S-503

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49566 SEMINOLE DRIVE, CABAZON, CA92230

PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON
1	08/07/2026	CORRECTIONS FOR IFC COMMENTS

PHASE 2 - IFC 2026.06.10

Sheet Title
GENERAL NOTES

Sheet No.
S-001

9/3/2026 11:30:08 AM
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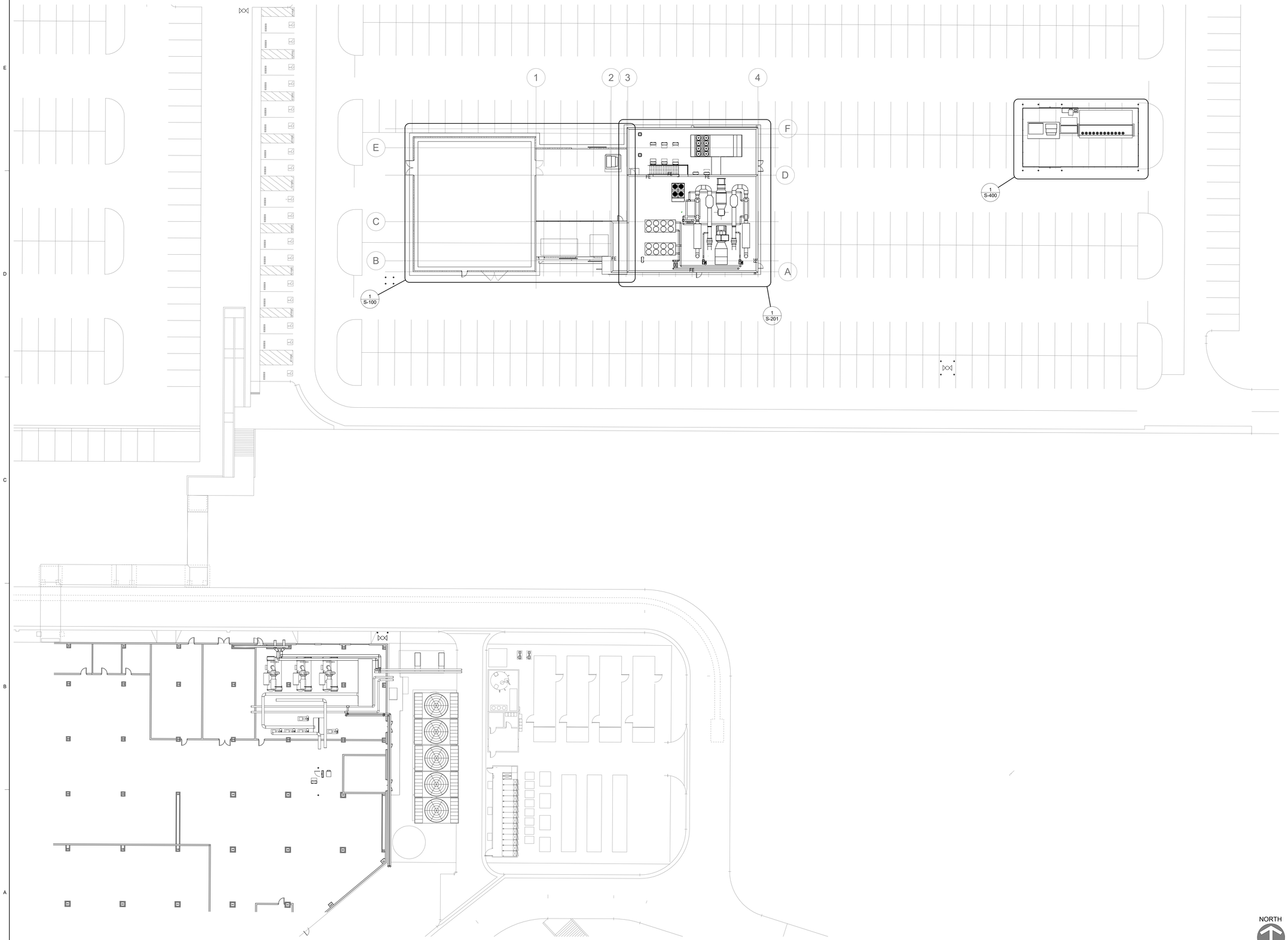

NORTH

0 10' 20' 40'
SCALE: 1" = 20'

1	KEY MAP
A / S-508	1" = 20'-0"

9/3/2026 11:30:10 AM
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REGISTERED PROFESSIONAL ENGINEER
JERRY DUNAWAY
No. C54085
Exp. 12/31/27
CIVIL
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

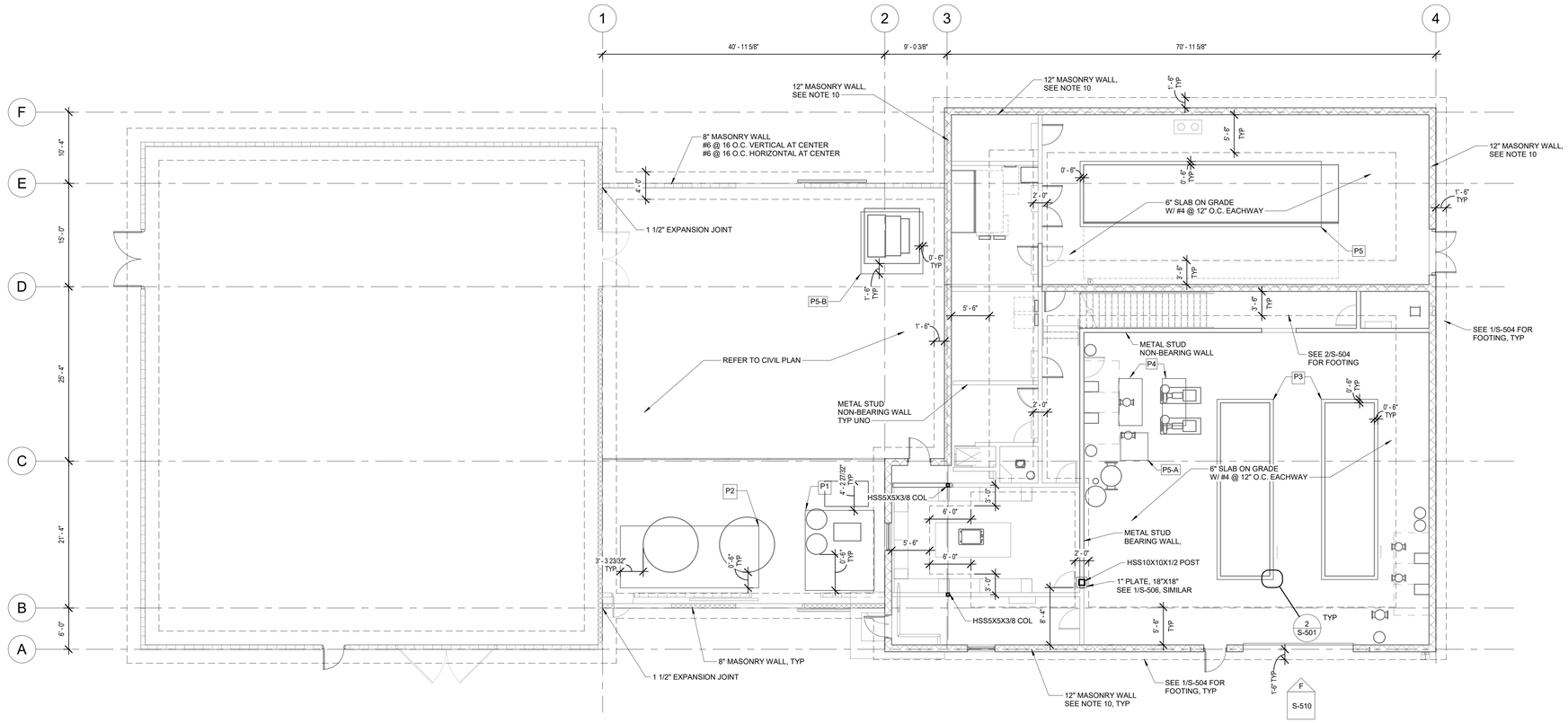
PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
KEY MAP

Sheet No.
S-002



NORTH

0 4'-0" 8'-0" 16'-0"

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

1 FOUNDATION PLAN

1 / S-002 1/8" = 1'-0"

GENERAL NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. ALL FOOTINGS SHALL BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSION, SLOP, OPENINGS, CURBS, DRAINS, TRENCHES, PADS, SLAB EDGE, LOCATION: OVERALL DIMENSIONS AND LOCATION OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
5. TYPICAL SLAB ON GRADE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. 6" CONCRETE SLAB W/ #4 @ 12" O.C. EACH WAY AT MID-DEPTH OF SLAB.
   B. MINIMUM 10 MIL PLASTIC VAPOR BARRIER (6" MIN OVERLAP AT JOINTS). REFER TO 9/S-500 FOR ADDITIONAL MOISTURE BARRIER DETAILS.
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.
7. SEE SHEET S-500 FOR CONSTRUCTION JOINT, CONTROL JOINT AND TYPICAL SLAB DETAILS.
8. SEE ARCHITECTURAL PLANS FOR PUMP ROOM FLOOR SLOPE.
9. SEE 11/S-500 FOR THE FOUNDATION OF EQUIPMENT OF P1, P2, P3, P4, P5 P5-A AND P5-B.

GENERAL NOTES

10. SEE SHEETS OF S-508, S-509 AND S-510 FOR CMU WALL ELEVATIONS AND REINFORCEMENTS, AND SEE SHEETS OS S-506 AND S-506 FOR THE CMU WALL REINFORCEMENT DETAILS.

LEGEND

- INTERIOR FOOTING: SEE 3/S-504, UNO
- 12" CMU WALL. SEE SECTION SHEETS OF S-508, S-509 AND S-510. FULLY GROUTED
- CMU WALL FOOTING
- METAL STUD WALL

FOOTING SCHEDULE

EQUIPMENT FOOTING SCHEDULE

MARK	SIZE			REINFORCEMENT	
	WIDTH	LENGTH	THICKNESS	LONGITUDINAL	CROSS TIES
P1	10'-0"	12'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P2	20'-6"	9'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P3	8'-6"	26'-6"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P4	3'-6"	7'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P5	35'-0"	9'-6"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P5-A	4'-0"	4'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P5-B	9'-0"	9'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"

SYMBOL

- INDICATES SLAB TYPE
- INDICATES DIRECTION OF SPAN
- SLXX
- CURB STEP
- DOUBLE STEP
- STEP DOWN
- STEP DOWN WITH SLOPE
- SLOPE DOWN
- STEP UP WITH SLOPE
- SLOPE UP
- VALLEY
- PEAK
- TRENCH STEP
- SLAB VARIABLE THICKNESS
- FNDN STEP DOWN

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA92230

PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON
△	08/07/2026	CORRECTIONS FOR IFC COMMENTS

PHASE 2 - IFC 2026.06.10

Sheet Title
FOUNDATION PLAN

Sheet No.
S-100

9/3/2026 11:30:11 AM
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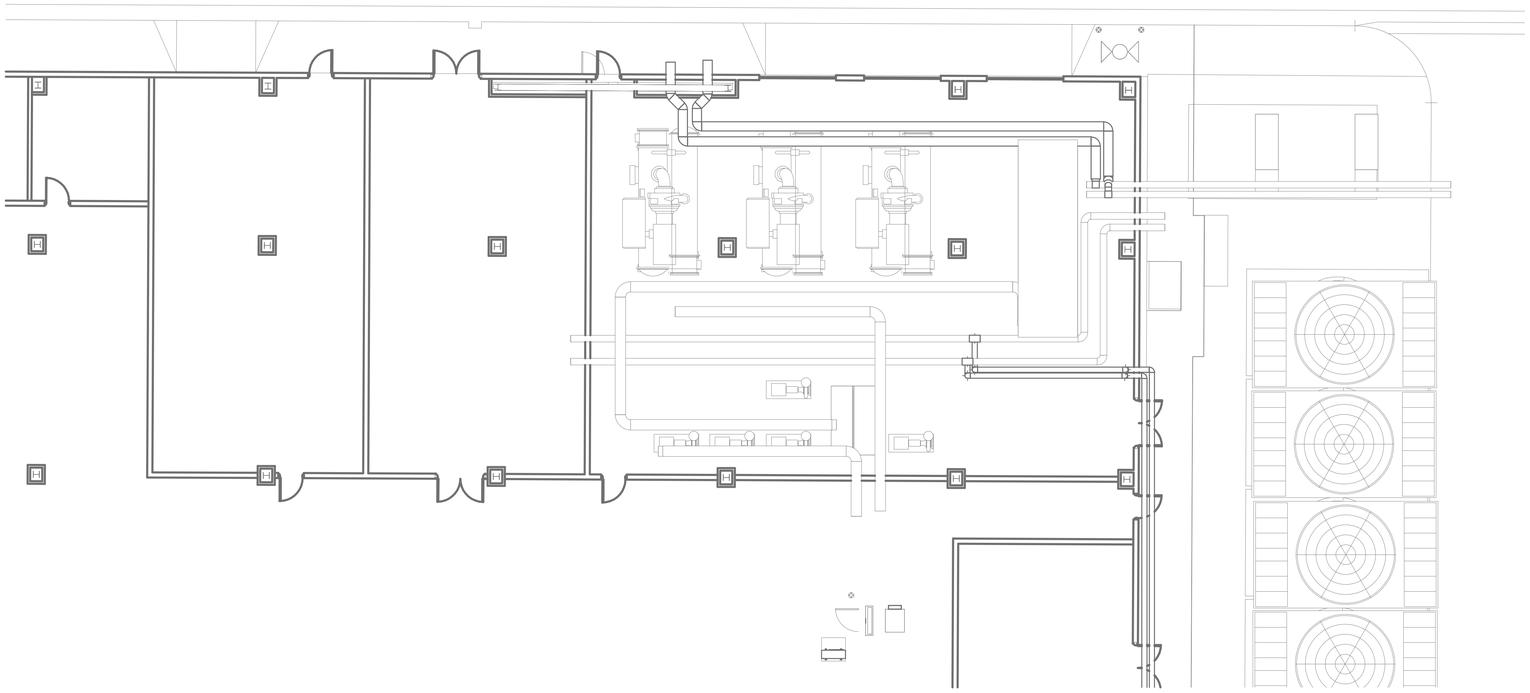

1 FOUNDATION PLAN

A / S-508 | 1/8" = 1'-0"

GENERAL NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. ALL FOOTINGS SHALL BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSION, SLOP, OPENINGS, CURBS, DRAINS, TRENCHES, PADS, SLAB EDGE, LOCATION OVERALL DIMENSIONS AND LOCATION OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
5. TYPICAL SLAB ON GRADE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. 6" CONCRETE SLAB W/ #4 @ 12" O.C. EACH WAY AT MID-DEPTH OF SLAB.
   B. MINIMUM 10 MIL PLASTIC VAPOR BARRIER (6" MIN OVERLAP AT JOINTS).
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.
7. SEE SHEET S-500 FOR CONSTRUCTION JOINT, CONTROL JOINT AND TYPICAL SLAB DETAILS.
8. SEE ARCHITECTURAL PLANS FOR PUMP ROOM FLOOR SLOPE.

LEGEND

- INTERIOR FOOTING: 24" WIDE X 24" DEEP WITH 2#5 T&B, UNO
- 12" CMU WALL W/ #5 @ 16" O.C., EF VERT & #4 @ 16" O.C., EF HORZ SOLID GROUT, UNO SEE ELEV
- 12" CMU WALL FOOTING, SEE SCHED
- METAL STUD WALL

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

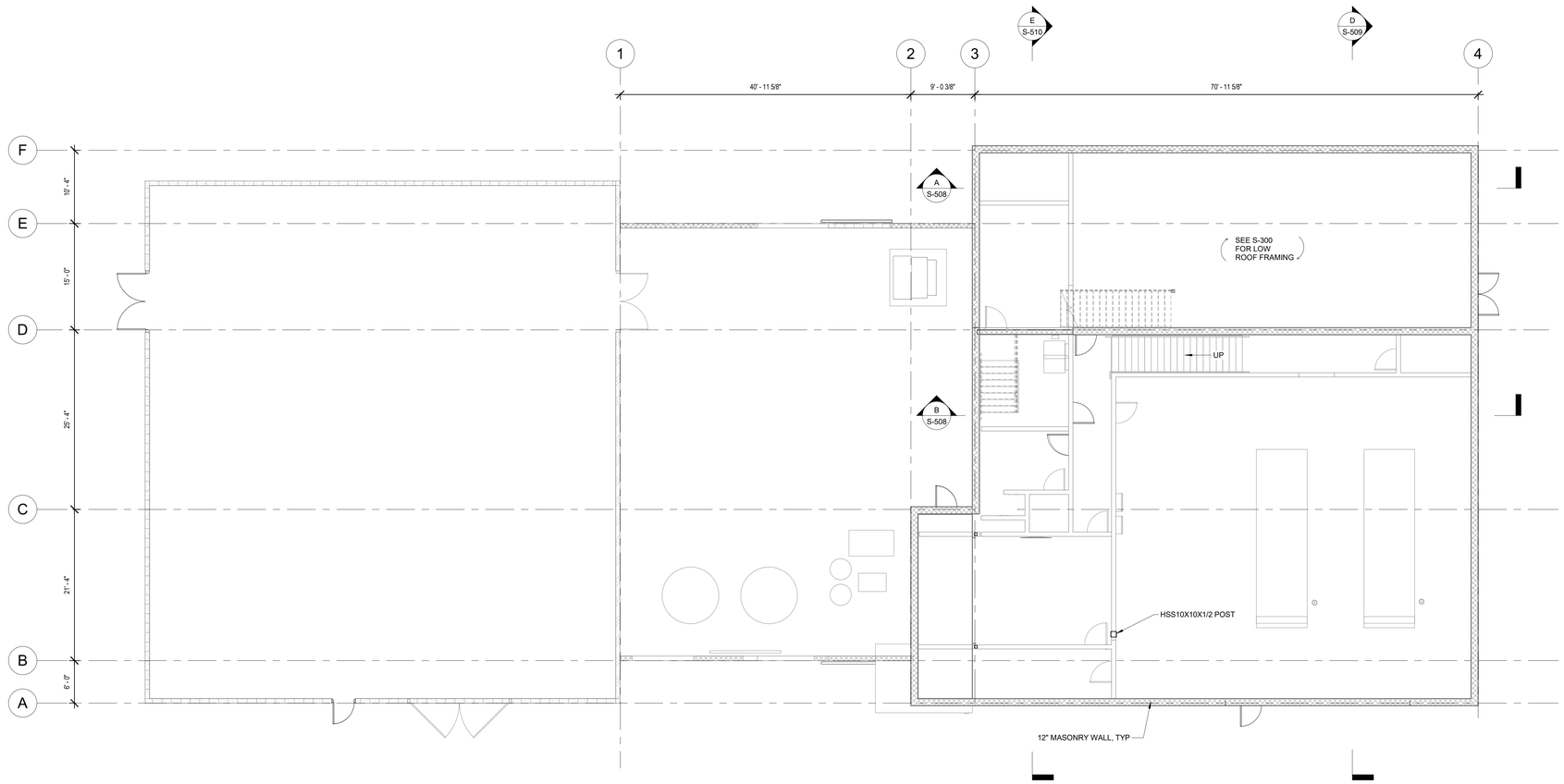
PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
FOUNDATION PLAN

Sheet No.
S-101



NORTH

0 4'-0" 8'-0" 16'-0"

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

1 OVERALL FLOOR PLAN

A / S-508 | 1/8" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. COORDINATE DUCTBANK OPENING WITH ELECTRICAL DRAWINGS.
3. COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. SEE GRADING PLANS FOR FG ELEVATION.
5. SEE DETAIL S-505 FOR THE REINFORCING OF THE MASONRY OPENING.
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.

STEEL DECK NOTES

1. VERCO STEEL DECKING SHALL CONFORM EVALUATION "IAPMO ER-2018".
2. SPECIAL INSPECTION IS REQUIRED FOR LIGHT GAGE WELDING OF STEEL DECK.
3. VERCO STEEL DECKING SHALL BE ASTM A572 GR 50.

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

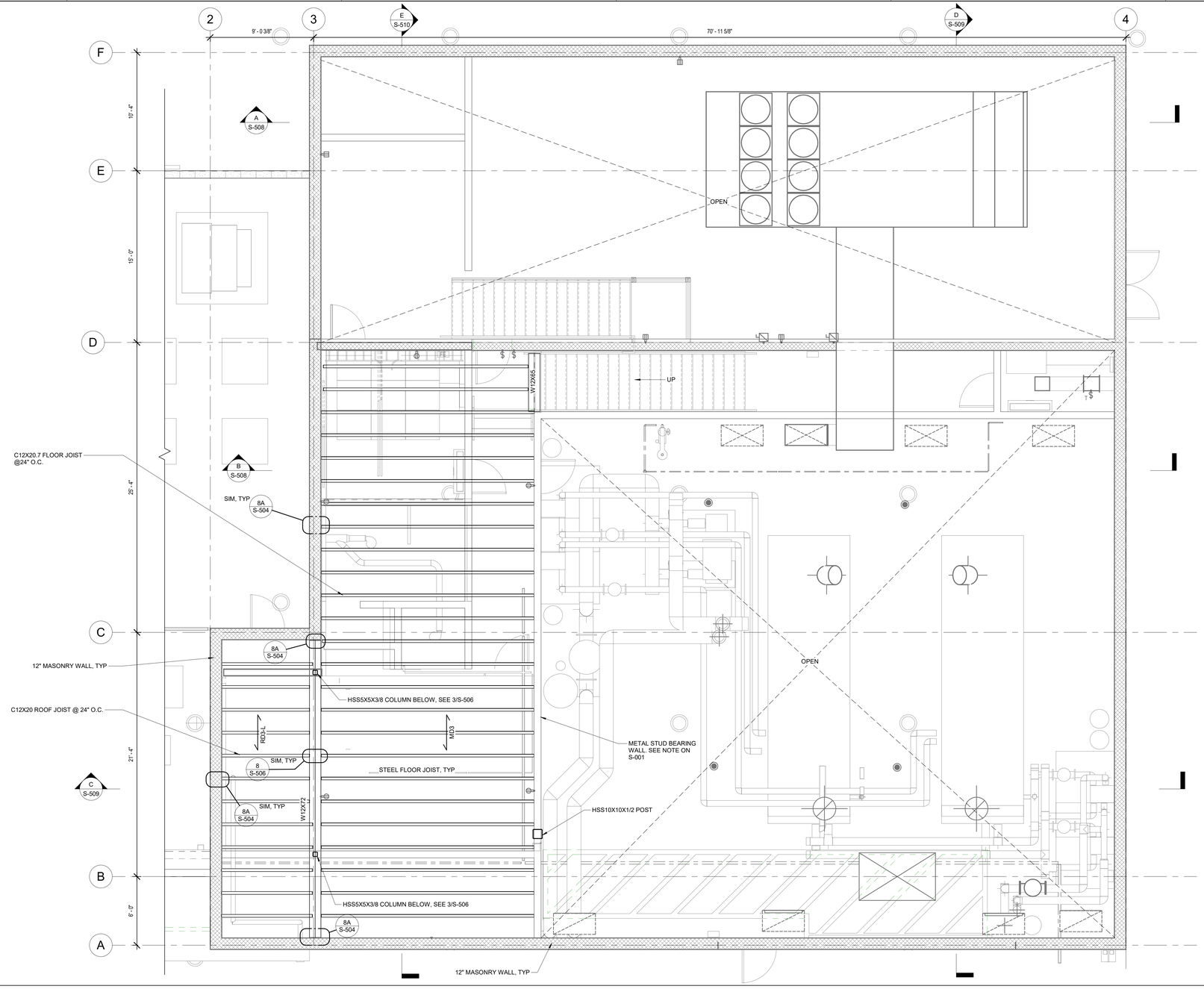
PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 1 OVERALL FLOOR PLAN

Sheet No.
S-200



NORTH

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

1 MEZZANINE PLAN

1 / S-002 | 1/4" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. COORDINATE DUCTBANK OPENING WITH ELECTRICAL DRAWINGS.
3. COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. SEE GRADING PLANS FOR FG ELEVATION.
5. SEE DETAIL S-505 FOR THE REINFORCING OF THE MASONRY OPENING.
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.

STEEL DECK NOTES

1. VERCO STEEL DECKING SHALL CONFORM EVALUATION "IAPMO ER-2018".
2. SPECIAL INSPECTION IS REQUIRED FOR LIGHT GAGE WELDING OF STEEL DECK.
3. VERCO STEEL DECKING SHALL BE ASTM A572 GR 50.

LEGEND

INDICATES STEEL DECK DIRECTION

MD3/RD3-L	VERCO PLW3-36 FORMLOK ASC DGN-32, OR APPROVED EQUAL	3" DECK X 18 GA W/ 4" NW CONCRETE	1/2" EFFECTIVE ARC SPOT WELDS	36/7/4	VERCO PUNCHLOK II, OR ASC DELTA GRIP DG4, AT 18" OC

NOTE: 5" TALL X 3/4" DIA. HEADED WELDED STUDS. THE FASTENER PATTERN SHALL BE 12" O.C. ON SUPPORT BEAMS (36-4 EFFECTIVE PATTERN). THE SIDE SEAMS SHALL BE ARC TOP SEAM WELDED AT 24" O.C. SLAB REINFORCEMENT SHALL BE #4 @ 12" O.C. EACH WAY, LOCATED AT MID-DEPTH OF THE PAD. THE CONCRETE PAD FOOTPRINT SHALL EXCEED THE EQUIPMENT SUPPORT FOOTPRINT BY 12" TYPICAL ON ALL FOUR SIDES.

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA92230

PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
MEZZANINE PLAN

Sheet No.
S-201

9/3/2026 11:30:15 AM
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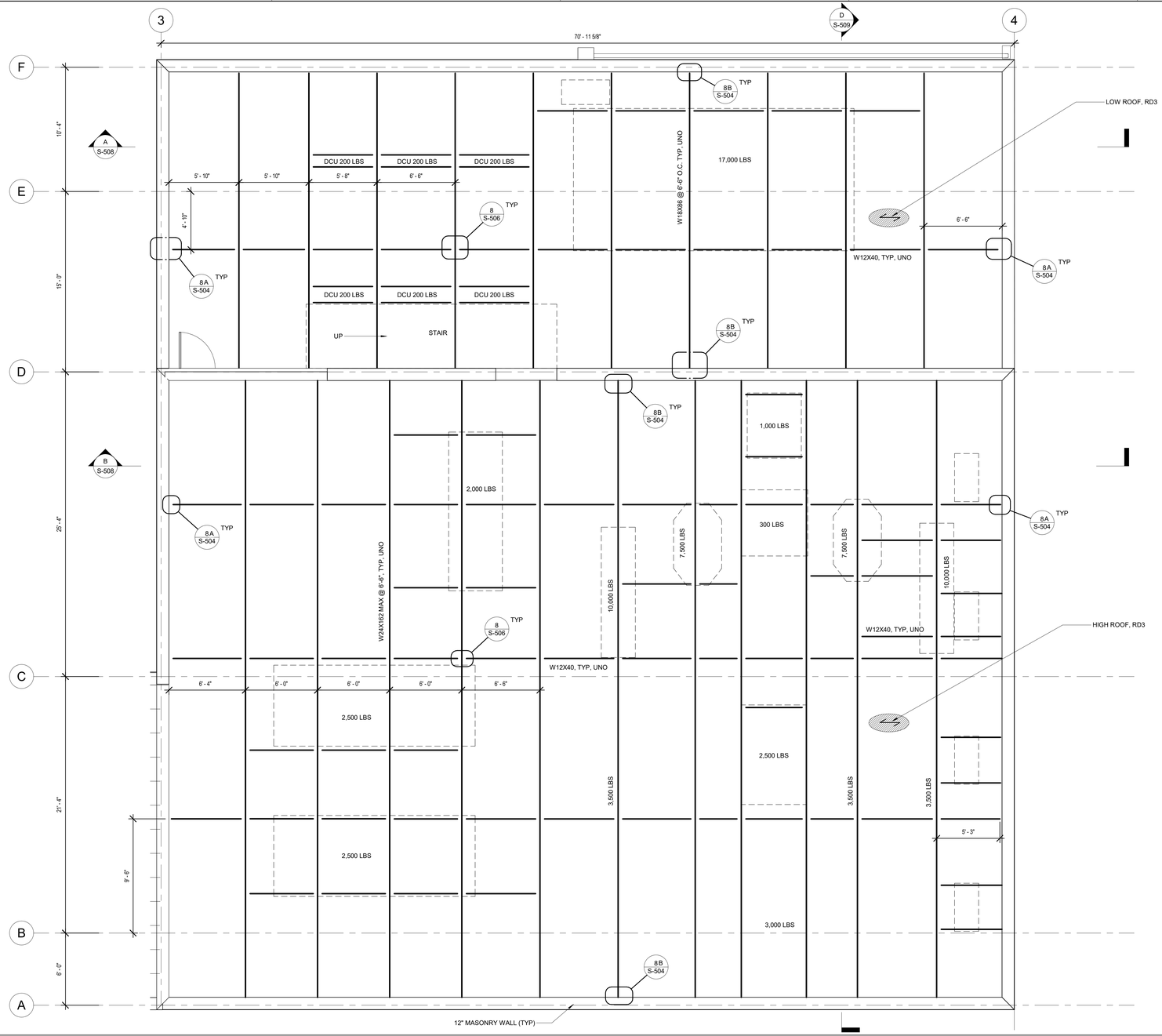

NOTES:

1. CONTRACTOR SHALL COORDINATE STEEL FRAMING LOCATIONS WITH ROOFTOP EQUIPMENT TO ADJUST BEAM POSITIONS AS REQUIRED TO ACCOMMODATE EQUIPMENT INSTALLATION.

NORTH

0 4'-0" 8'-0" 16'-0"

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

1 ROOF FRAMING PLAN

A / S-508 | 1/4" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. COORDINATE DUCTBANK OPENING WITH ELECTRICAL DRAWINGS.
3. COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. SEE GRADING PLANS FOR FG ELEVATION.
5. SEE DETAIL S-505 FOR THE REINFORCING OF THE MASONRY OPENING.
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.
7. THE EQUIPMENT FOOTPRINT AND WEIGHTS SHOWN ON THE PLANS ARE PRELIMINARY. THE CONTRACTOR SHALL SUBMIT THE EQUIPMENT SPECIFICATIONS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF THE BUILDING.

STEEL DECK NOTES

1. VERCO STEEL DECKING SHALL CONFORM EVALUATION "IAPMO ER-2018".
2. SPECIAL INSPECTION IS REQUIRED FOR LIGHT GAGE WELDING OF STEEL DECK.
3. VERCO STEEL DECKING SHALL BE ASTM A572 GR 50.

LEGEND

INDICATES STEEL DECK DIRECTION

RD3	VERCO PLW3-36 FORMLOK ASC DGN-32, OR APPROVED EQUAL	3" DECK X 18 GA	1/2" EFFECTIVE ARC SPOT WELDS	36/7/4	VERCO PUNCHLOK II, OR ASC DELTA GRIP DG4, AT 18" OC

NOTE: WHERE THERE IS EQUIPMENT, A 6" NORMAL-WEIGHT CONCRETE PAD SHALL BE POURED ON TOP OF THE METAL DECK WITH 7" TALL X 3/4" DIA. HEADED WELDED STUDS. THE FASTENER PATTERN SHALL BE 12" O.C. ON SUPPORT BEAMS (36-4 EFFECTIVE PATTERN). THE SIDE SEAMS SHALL BE ARC TOP SEAM WELDED AT 24" O.C. SLAB REINFORCEMENT SHALL BE #4 @ 12" O.C. EACH WAY, LOCATED AT MID-DEPTH OF THE PAD. THE CONCRETE PAD FOOTPRINT SHALL EXCEED THE EQUIPMENT SUPPORT FOOTPRINT BY 12" TYPICAL ON ALL FOUR SIDES.

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49566 SEMINOLE DRIVE, CABAZON, CA92230

PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
ROOF PLAN

Sheet No.
S-300

9/3/2026 11:30:16 AM
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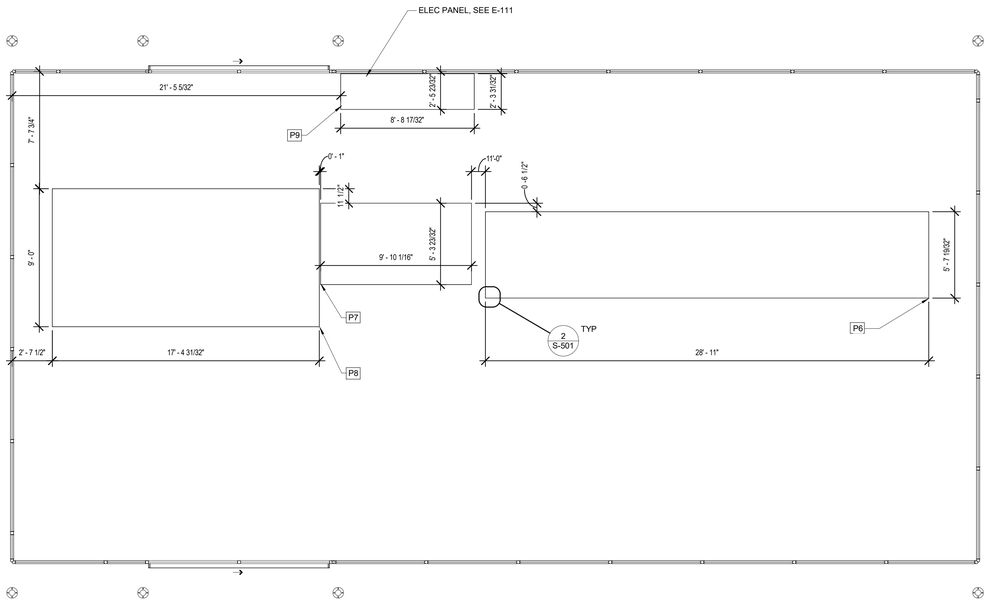

NORTH

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

1 BESS FACILITY SITE PLAN

1 / S-002 1/4" = 1'-0"

GENERAL NOTES

1. FOR GENERAL NOTES SEE S-000 AND S-001
2. ALL FOOTINGS SHALL BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSION, SLOP, OPENINGS, CURBS, DRAINS, TRENCHES, PADS, SLAB EDGE, LOCATION: OVERALL DIMENSIONS AND LOCATION OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
5. TYPICAL SLAB ON GRADE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. 6" CONCRETE SLAB W/ #4 @ 12" O.C. EACH WAY AT MID-DEPTH OF SLAB.
   B. MINIMUM 10 MIL PLASTIC VAPOR BARRIER (6" MIN OVERLAP AT JOINTS). REFER TO 9/S-500 FOR ADDITIONAL MOISTURE BARRIER DETAILS.
6. CONTRACTOR TO DETERMINE MAINTENANCE PAD SIZING BASED ON APPROVED ELECTRICAL EQUIPMENT.
7. SEE SHEET S-500 FOR CONSTRUCTION JOINT, CONTROL JOINT AND TYPICAL SLAB DETAILS.
8. SEE ARCHITECTURAL PLANS FOR PUMP ROOM FLOOR SLOPE.
9. SEE 11/S-500 FOR THE FOUNDATION OF EQUIPMENT OF P6, P7, P7 AND P9.

GENERAL NOTES

10. THE LOCATIONS AND DIMENSIONS OF THE EQUIPMENT FOUNDATION IS A PRELIMINARY AND GENERIC DESIGN. MEP ENGINEERS SHALL VERIFY THE SPECIFIC EQUIPMENT FOOTING REQUIREMENTS BEFORE CONSTRUCTION.

FOOTING SCHEDULE

FOOTING SCHEDULE					
MARK	SIZE			REINFORCEMENT	
	WIDTH	LENGTH	THICKNESS	LONGITUDINAL	CROSS TIES
P6	31'-0"	7'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P7	10'-0"	5'-6"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P8	17'-6"	9'-0"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"
P9	8'-9"	2'-9"	1'-6"	#5 @ 6" O.C. T&B EW	#4 @ 12"

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PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
BESS FACILITY SITE PLAN

Sheet No.
S-400

9/3/2026 11:30:18 AM
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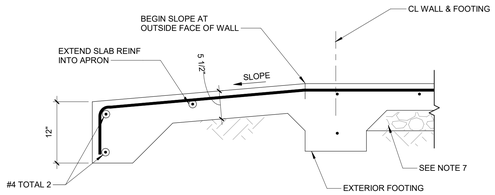
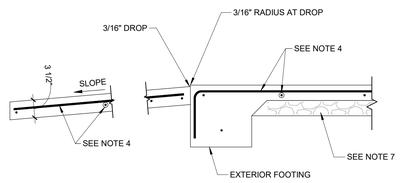


1 DRIVEWAY APRON

TYPICAL DETAIL

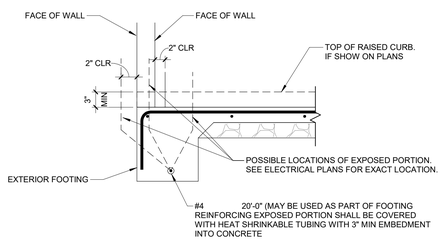
NTS



2 WALKWAY APRON

TYPICAL DETAIL

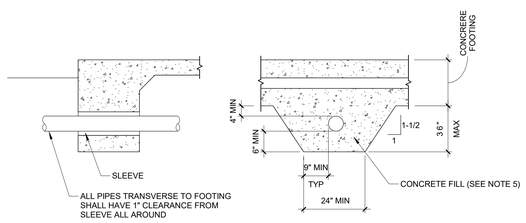
NTS



3 GROUND BAR DETAIL

TYPICAL DETAIL

NTS

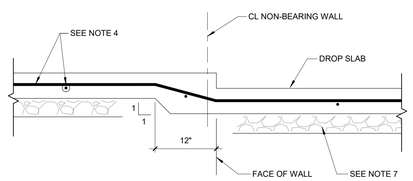


NOTE:
NO PIPES PERMITTED BENEATH INTERIOR OR
EXTERIOR ISOLATED FOOTINGS

4 PIPE DETAILS THROUGH FOOTING

TYPICAL DETAIL

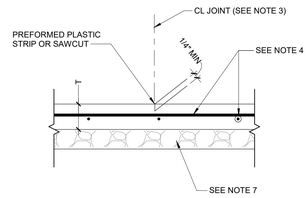
NTS



5 DROP SLAB AT NIN-BEARING WALL

TYPICAL DETAIL

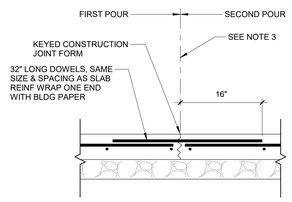
NTS



6 CONTROL JOINT

TYPICAL DETAIL

NTS

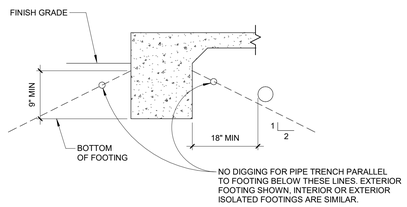


* SLAB CONCRETE MAY BE POURED CONTINUOUSLY
ACROSS THE CONTROL JOINT TO COVER AS LARGE
AN AREA AS PRACTICAL

7 CONTRACTION JOINT

TYPICAL DETAIL

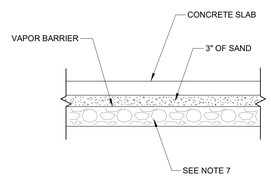
NTS



8 PIPE DETAILS PARALLEL

TYPICAL DETAIL

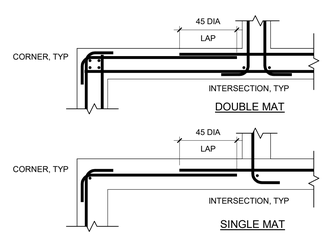
NTS



9 MOISTURE BARRIER

1 / S-100

NTS



10 CONCRETE/INTERSECTION REINF SPLICE, TYP

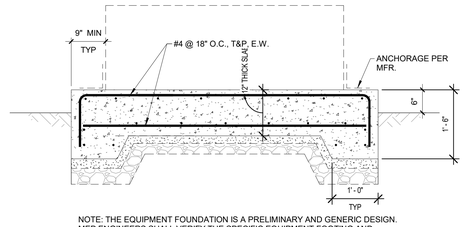
TYPICAL DETAIL

NTS

CONCRETE NOTES

1. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ---------- 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER BUT CAST IN FORMS:
      NO.6 THROUGH NO. 18 BARS ---------- 2"
      NO.5 BARS, W31 OR D31 WIRE, AND SMALLER ---------- 1-1/2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS AND JOINTS:
      NO. 14 AND NO. 18 BARS ---------- 1-1/2"
      NO. 11 BARS AND SMALLER ---------- 3/4"
      BEAMS AND COLUMNS:
      PRIMARY REINF, TIES, STIRRUPS AND SPIRALS ------ 1-1/2"
2. SPLICES IN CONTINUOUS REINFORCEMENT AS IN WALLS. WALL FOOTINGS, ETC. #8 BAR OR SMALLER SHALL HAVE A LAP OF 45*DIAMETERS AND THE SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN 59" APART.

   CONTINUOUS BARS IN SPANDRELS, WALL BEAMS, ETC. SHALL LAP TOP BARS AT CENTER OF SPAN AND BOTTOM BARS AT SUPPORTS.
3. CONTRACTION JOINTS AND CONTROL JOINTS SHALL DIVIDE SLAB INTO AREAS NOT EXCEEDING 226 SQ. FT WITHOUT REENTRANT CORNERS AND WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1.5 TO 1. JOINT SPACING SHALL NOT EXCEED 178".
4. SLAB THICKNESS (T): REINFORCEMENT
   3-1/2" — #3 @ 18" OC EACH WAY PLACE IN CENTER OF SLAB
   5-1/2" — #4 @ 18" OC EACH WAY PLACE IN CENTER OF SLAB
5. CONCRETE FILL IS TO BE PLACED BEFORE FOOTING IS POURED. MAKE THE SAME WIDTH AS THE FOOTING AND THE FULL WIDTH OF THE PIPE TRENCH. CONCRETE FILL NOT REQUIRED FOR PIPES LESS THAN 2" DIAMETERS FOR PIPES MORE THAN 36" BELOW BOTTOM OF FOOTING.
6. SEE MECHANICAL AND ARCHITECTURAL PLANS FOR SIZE AND LOCATIONS OF PIPE, VENTS, DUCTS AND OTHER SIMILAR OPENINGS. SEE ELECTRICAL PLANS FOR CONDUITS AND OUTLET BOXES IN FLOORS, WALLS, ETC.
7. PLACE 4" OF FREE DRAINING GRANULAR MATERIAL UNDER SLABS.

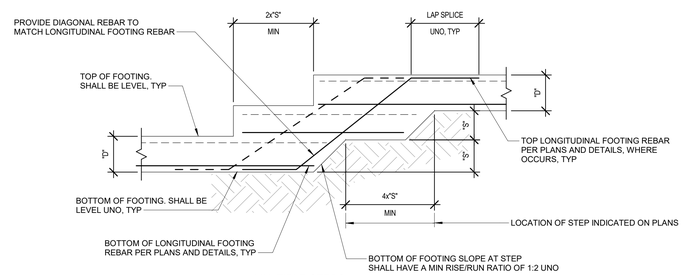


NOTE: THE EQUIPMENT FOUNDATION IS A PRELIMINARY AND GENERIC DESIGN.
MEP ENGINEERS SHALL VERIFY THE SPECIFIC EQUIPMENT FOOTING AND
ANCHORAGE REQUIREMENTS BEFORE CONSTRUCTION.

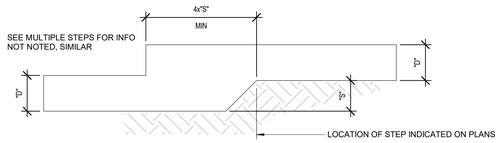
11 EQUIPMENT FOUNDATION ON GRADE

1 / S-100

3/4" = 1'-0"



MULTIPLE STEPS



SINGLE STEP

NOTES:

1. MAXIMUM FOOTING STEP "S" SHALL NOT EXCEED 1'-6" UNO.
2. TRANSVERSE AND VERTICAL REBAR NOT SHOWN HERE FOR CLARITY.

12 TYPICAL STEPPED FOOTING UNO

TYPICAL DETAIL

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

PROJECT NO. 2423

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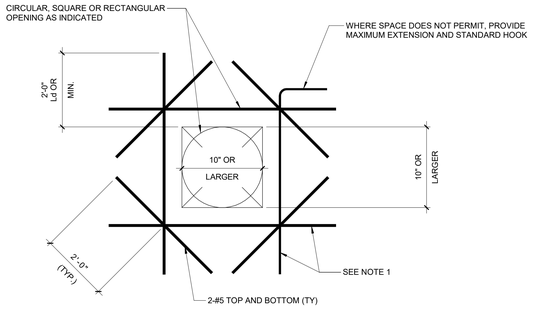


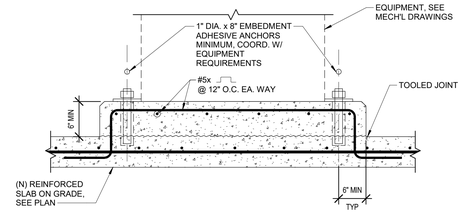
NOTES:

1. PROVIDE A MINIMUM 1/2 OF THE AREA OR NUMBER OF THE INTERRUPTED TO EACH SIDE OF THE OPENING PARALLEL TO THE INTERRUPTED BARS (TYP AT EACH FACE) OR A MINIMUM OF 2-#5 BARS, WHICHEVER IS GREATER.
2. ADDITIONAL REINF MAY BE OMITTED WHERE OPENING IS FRAMED BY MEMBERS.
3. NO ADDITIONAL REINFORCING IS REQUIRED FOR OPENING LESS THAN 10".

1 WALL OPENINGS OVER 10"

TYPICAL DETAIL

NTS

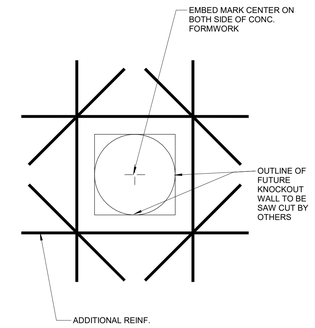


NOTE: THE PAD FOOTING IS A PRELIMINARY AND GENERIC DESIGN. MEP ENGINEERS SHALL VERIFY THE SPECIFIC EQUIPMENT FOOTING AND ANCHORAGE REQUIREMENTS BEFORE CONSTRUCTION.

2 MEP PAD

1 / S-100

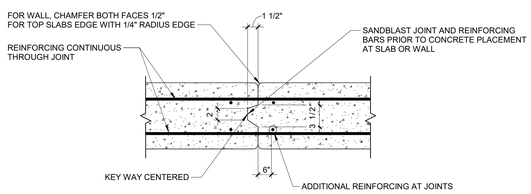
NTS



3 FUTURE KNOCKOUT - WALL

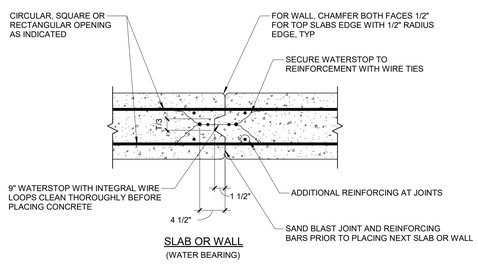
TYPICAL DETAIL

NTS



SLAB OR WALL

(NON-WATER BEARING)



SLAB OR WALL

(WATER BEARING)

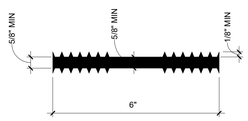
NOTES:

EMBED WATERSTOP FROM WALLS 6" INTO BASE SLAB AT POINTS WHERE THE WATERSTOP IS NOT REQUIRED TO CONTINUE THROUGH SLAB. WATERSTOPS ARE REQUIRED AT ALL CONSTRUCTION JOINT LOCATIONS

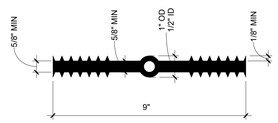
4 CONSTRUCTION JOINTS

TYPICAL DETAIL

NTS



6" FLASTRIP WATERSTOP



9" CENTER-BULB WATERSTOP

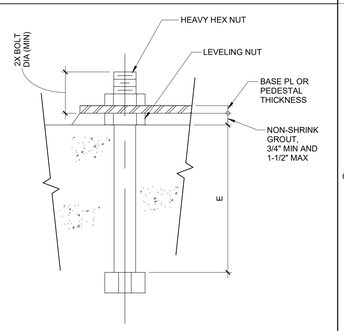
5 WATERSTOP DETAIL

TYPICAL DETAIL

NTS

DIAM.	E
1/2	4
5/8	4
3/4	5
7/8	6
1	7
1 1/8	8
1 1/4	9

ALL DIMENSIONS IN INCHES



6 TYPICAL ANCHOR BOLT INSTALLATION

TYPICAL DETAIL

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Sheet No.

S-501

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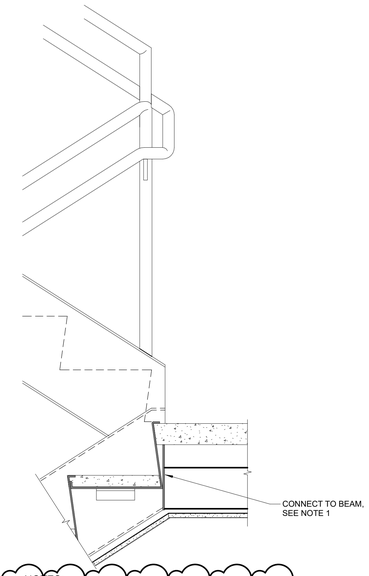


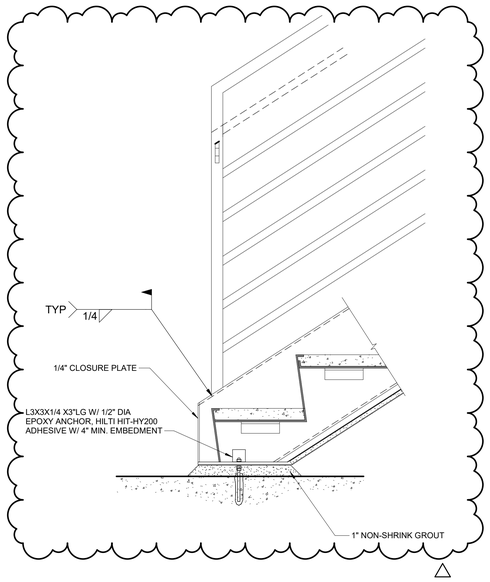
NOTES:

1. GRIND SMOOTH ALL SHARP EDGES.
2. ALL STRUCTURAL STEEL SHALL BE TYPE 316 STAINLESS STEEL AND CONFORM TO ASTM A276.

1 STAIR DETAIL

TYPICAL DETAIL

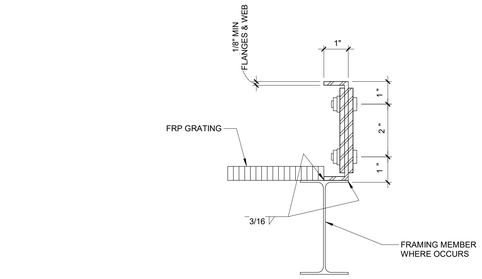
NTS



2 STAIR DETAIL 1

TYPICAL DETAIL

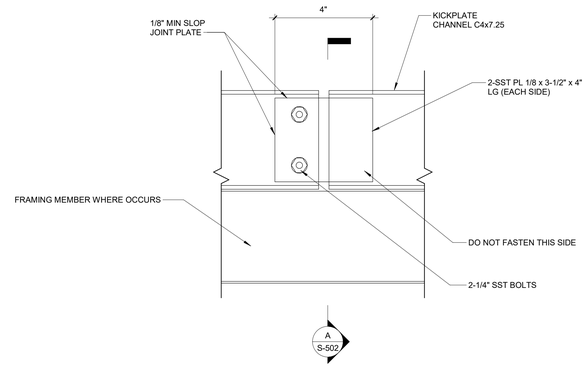
NTS



A SECTION A

3 / S-502

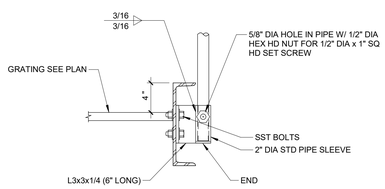
NTS



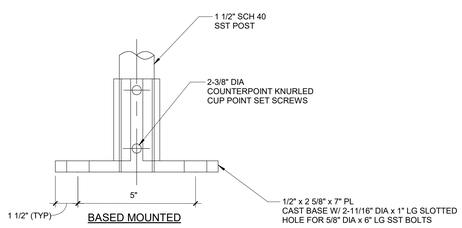
3 KICKPLATE JOINT

TYPICAL DETAIL

NTS



SIDE MOUNTED IN STEEL

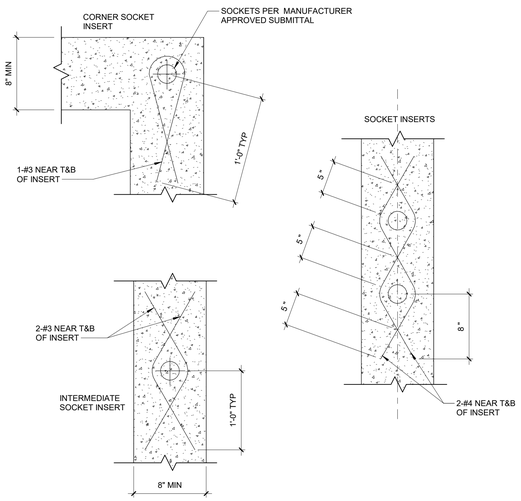


BASED MOUNTED

4 TYPICAL ANCHOR BOLT INSTALLATION

TYPICAL DETAIL

NTS



POST REINFORCEMENT

5 POST REINFORCEMENT

TYPICAL DETAIL

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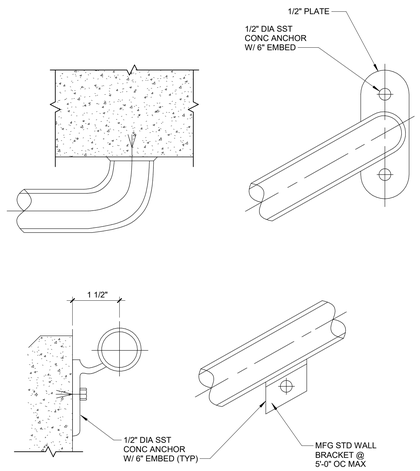

SIDE RAIL BRACKETS

6 SIDE RAIL BRACKETS

TYPICAL DETAIL

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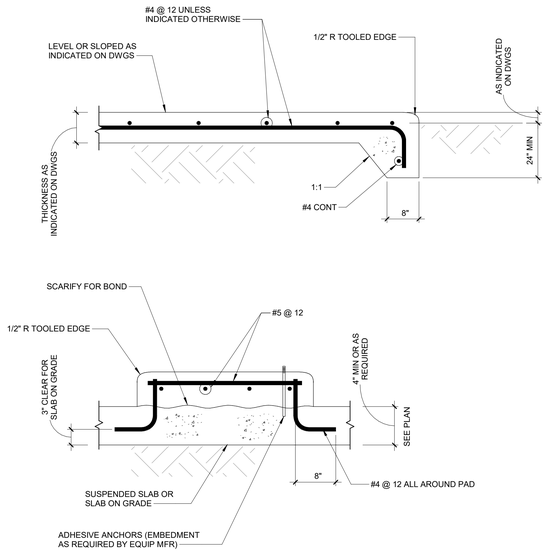
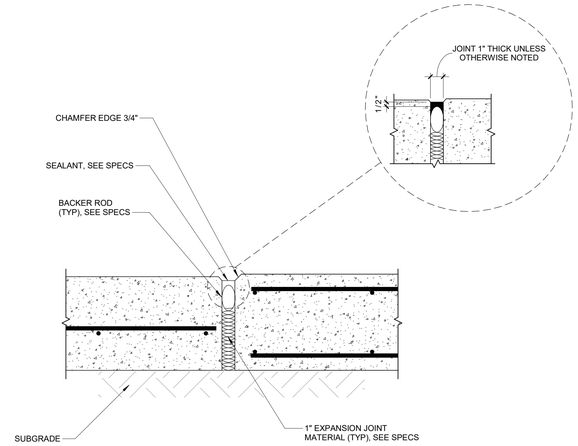


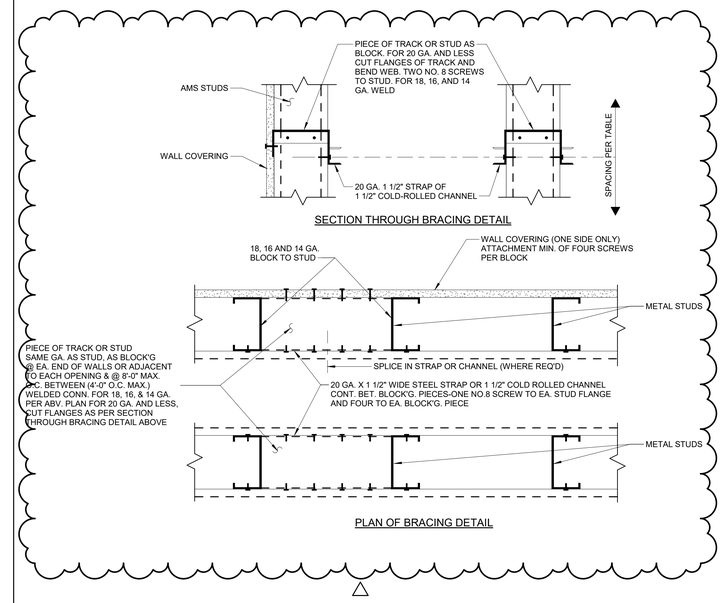
1 SLAB ON GRADE EQUIPMENT PAD

TYPICAL DETAIL — NTS



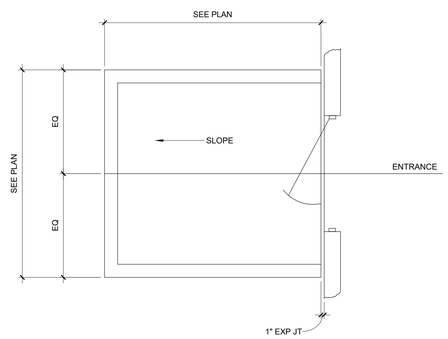
2 ISOLATION JOINT

TYPICAL DETAIL — NTS

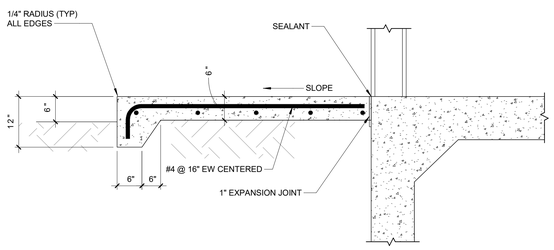


6 DETAIL OF STUD WALL BRACING

TYPICAL DETAIL — NTS

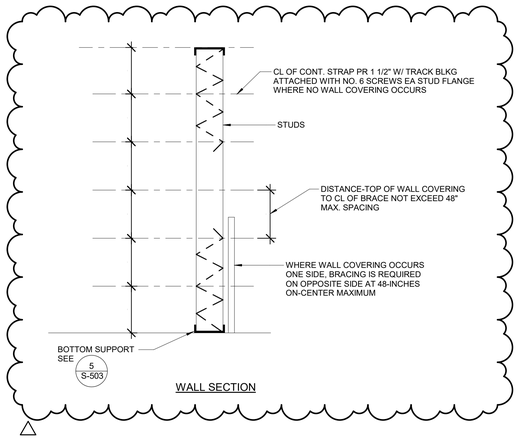


PLAN



3 ENTRANCE PAD

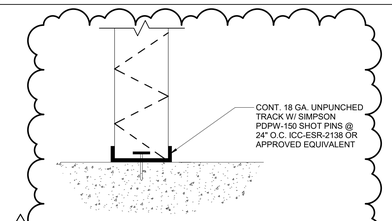
TYPICAL DETAIL — NTS



WALL SECTION

4 WALL BRACING DETAIL

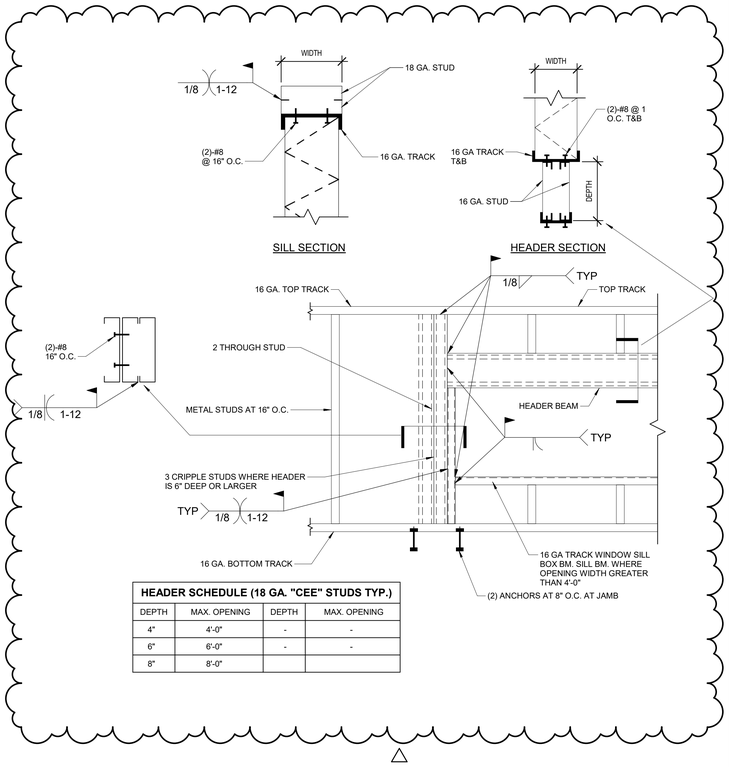
TYPICAL DETAIL — NTS



TYPICAL INTERIOR

5 TYPICAL STEEL STUD BASE

4 / S-503 — NTS



HEADER SCHEDULE (18 GA. "CEE" STUDS TYP.)

DEPTH	MAX. OPENING	DEPTH	MAX. OPENING
4"	4'-0"	-	-
6"	6'-0"	-	-
8"	8'-0"		

7 TYPICAL FRAMING FOR OPENING AT METAL STUD WALL

TYPICAL DETAIL — NTS

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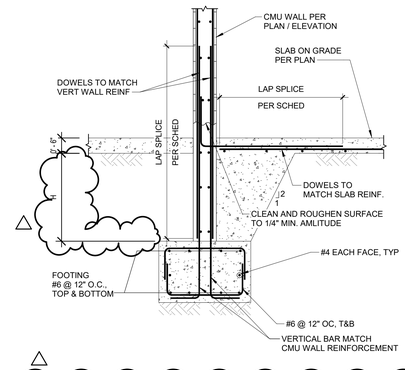
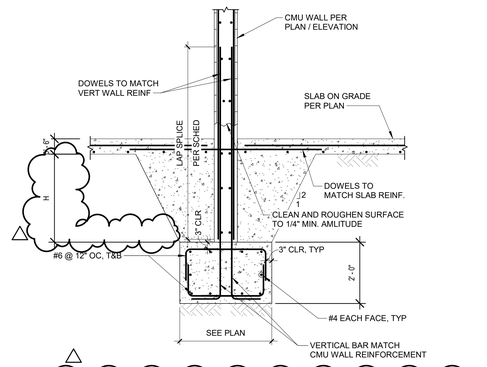


NOTES:

1. H IS MIN. 18" AND IS MEASURED FROM TOP OF THE FOOTING TO THE LOWEST ADJACENT SUBGRADE.

1 DETAIL

1 / S-100 — 1/2" = 1'-0"

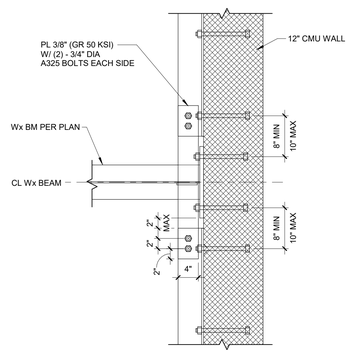


NOTES:

1. H IS MIN. 18" AND IS MEASURED FROM TOP OF THE FOOTING TO THE LOWEST ADJACENT SUBGRADE.

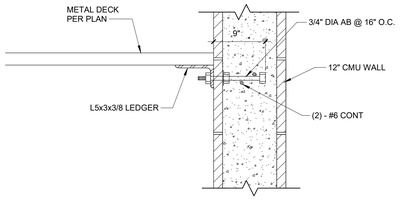
2 DETAIL

1 / S-100 — 1/2" = 1'-0"



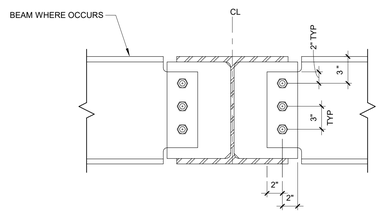
3 DETAIL

1 / S-100 — 1" = 1'-0"



4 DETAIL

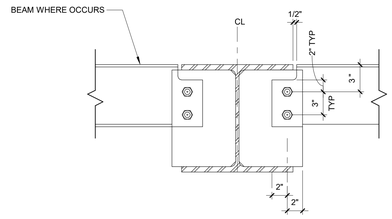
TYPICAL DETAIL — 1 1/2" = 1'-0"



NOTE:
SEE 2/S-506 FOR REMAINDER.

5 DETAIL

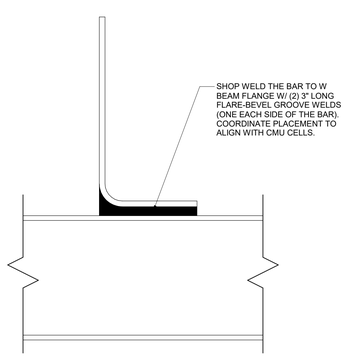
TYPICAL DETAIL — 1 1/2" = 1'-0"



NOTE:
SEE 2/S-506 FOR REMAINDER.

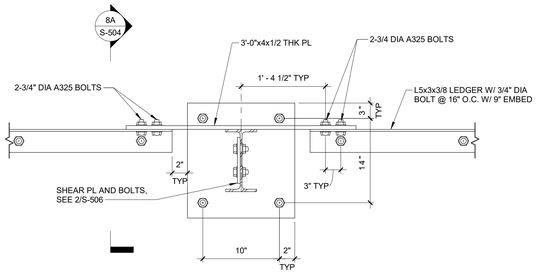
6 DETAIL

C / S-509 — 1 1/2" = 1'-0"



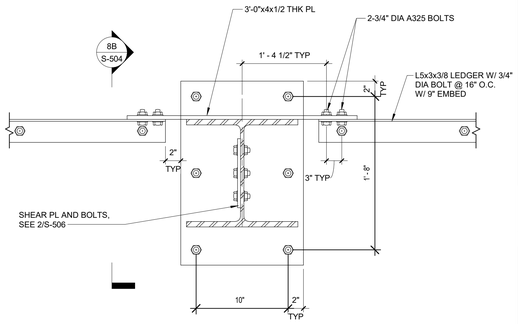
7 DETAIL

TYPICAL DETAIL — 3" = 1'-0"



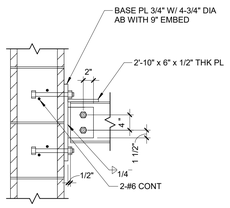
8 DETAIL

1 / S-201 — 1 1/2" = 1'-0"



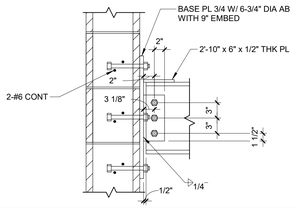
8B SECTION B

8 / S-504 — 1" = 1'-0"



8A SECTION A

1 / S-201 — 1" = 1'-0"



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

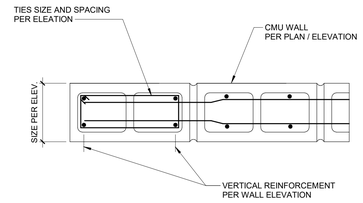
PROJECT NO. 2423

REV NO.	DATE ISSUED	REASON
△	08/07/2026	CORRECTIONS FOR IFC COMMENTS

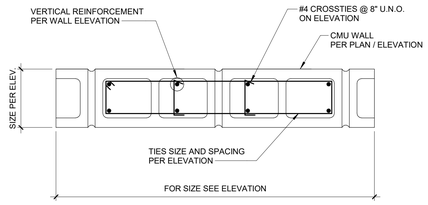
PHASE 2 - IFC 2026.06.10

Sheet Title
DETAIL PLAN

Sheet No.
S-504



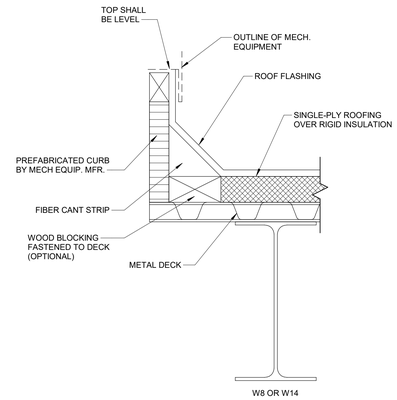
A CONDITION



B CONDITION

1 DETAIL

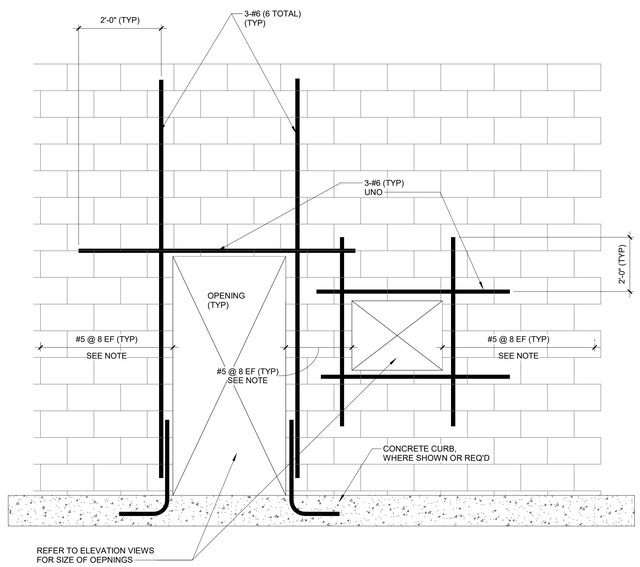
D / S-509 NTS



2 DETAIL

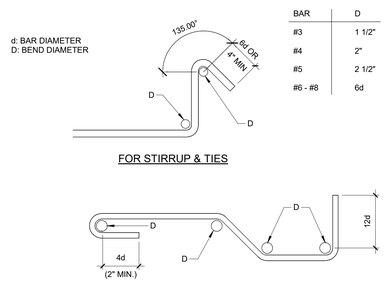
TYPICAL DETAIL

NTS



3 REINFORCING FOR MASONRY OPENING

D / S-509 NTS



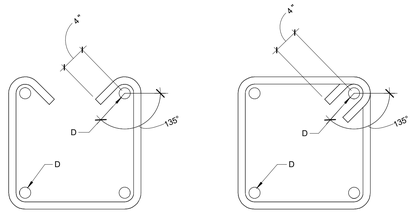
BAR	D
#3	1 1/2"
#4	2"
#5	2 1/2"
#6 - #8	6d

FOR STIRRUP & TIES

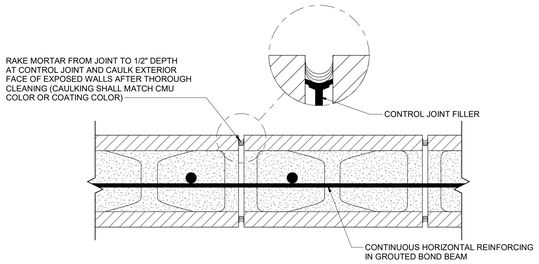
FOR REINFORCING BARS

OFFSET

D = 6d FOR #3 THRU #6
D = 8d FOR #7 THRU #11



STIRRUP & TIE DETAIL



4 CMU CONTROL JOINT

TYPICAL DETAIL

NTS

5 BAR BENDING DETAIL

TYPICAL DETAIL

NTS

REINFORCING STEEL SCHEDULE
FOR MASONRY WALLS

ALL CMU

BAR SIZE	1 1/2" COVER	STD HOOK LDH (in)	48DB (in)	72DB (in)	LAP SPLICE & DEVELOP LENGTH LD (in) UNO	
	DEVELOPMENT LENGTH & LAP SPLICE LENGTH					
					EDGE BAR / MULT BARS	SINGLE BAR CTR'D
#3	1'-7"	5	18	27	18	18
#4	2'-10"	7	24	36	36	24
#5	4'-5"	8	30	45	45	30
#6	8'-3"	10	36	54	54	36
#7	11'-2"	12	42	63	63	63
#8	-	13	28	72	72	72
#9	-	15	54	81	81	81
#10	-	-	-	-	-	-
#11	-	-	-	-	-	-

NOTES:

1. REINFORCEMENT IS ASTM A615, GRADE 60.
2. COMPRESSIVE STRENGTH OF MASONRY F'm = 2,000 PSI.
3. THE TABULATED LENGTHS SHALL BE USED WITH ONE SPLICE PER CELL.
4. BARS #9 THROUGH #11 NOT PERMITTED IN 8" CMU.
5. REMOVE MORTAR FINS IN CELL TO BE GROUTED.

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DETAIL PLAN

Sheet No.
S-505

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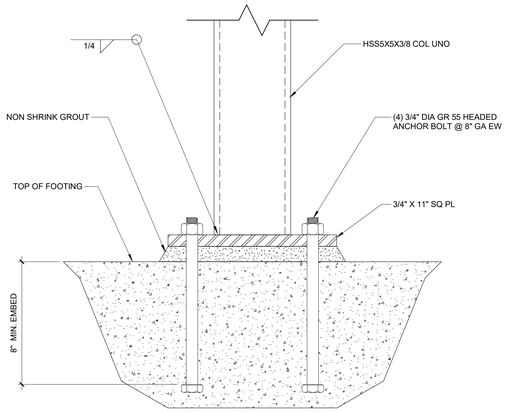
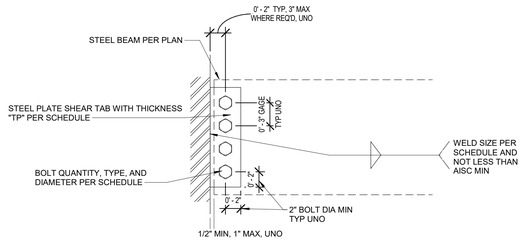
9/3/2026 11:30:23 AM



1 HSS COLUMN BASE

1 / S-100

3" = 1'-0"



TYPICAL SHEAR TAB CONNECTION SCHEDULE				
NOMINAL BEAM DEPTH	A325N (PT) BOLTS	CONN PL THICK "TP"	WELD SIZE "TW"	NOTES
10X	(2) 3/4"	3/8"	1/4"	
12X	(3) 3/4"	3/8"	1/4"	
14X	(3) 3/4"	3/8"	1/4"	
16X	(4) 3/4"	3/8"	1/4"	
18X	(5) 3/4"	3/8"	1/4"	
21X	(6) 3/4"	3/8"	1/4"	
24X	(6) 3/4"	1/2"	5/16"	
27X	(7) 3/4"	1/2"	5/16"	

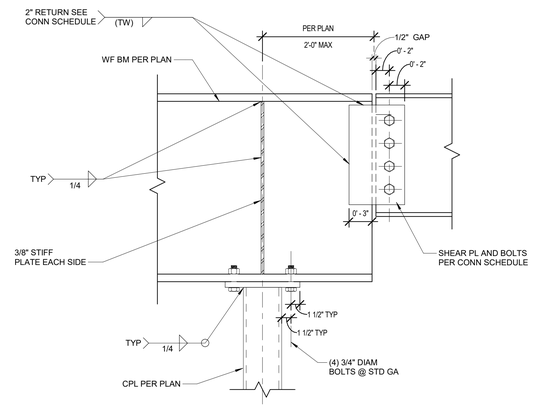
NOTE:

1. STEEL BEAM SHAPES INCLUDE BUT ARE NOT LIMITED TO: W, C, MC. FOR INTERMEDIATE DEPTHS NOT LISTED, ROUND TO NEAREST SIMILAR DEPTH.

2 TYPICAL SHEAR TAB CONNECTION

5 / S-504

NTS

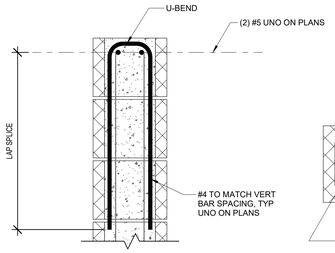


3 TYPICAL BEAM TO TOP OF COLUMN

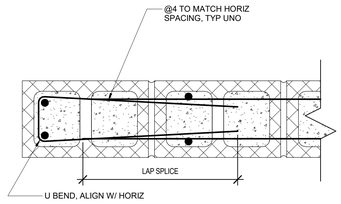
1 / S-201

NTS

REINF MAT: DOUBLE



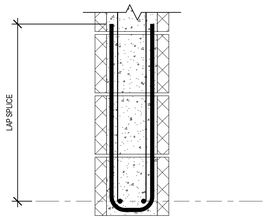
TOP OF WALL & SILL ELEVATION SECTION



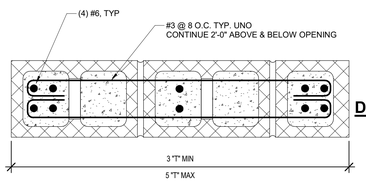
DOUBLE

JAMB PLAN SECTION

REINF MAT: DOUBLE



LINTEL ELEV SECTION



DOUBLE

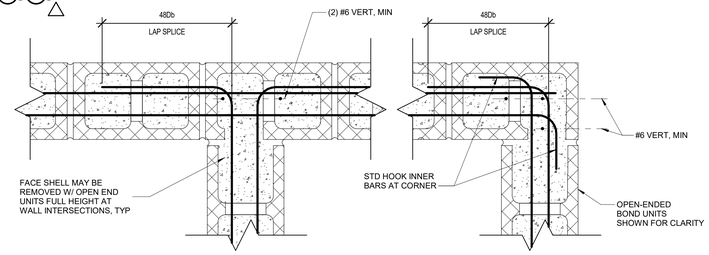
PIER PLAN SECTION

MIN REINF. UNO	MAX. OPENING
(2) #5	5'-0"
(2) #6	7'-0"
(2) #7	10'-0"

4 TYP MIN REINFORCEMENT FOR MASONRY WALL OPENINGS

TYPICAL DETAIL

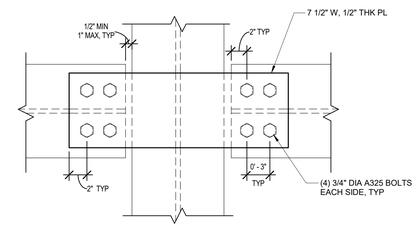
NTS



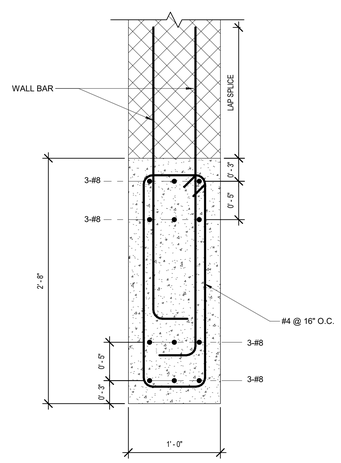
6 TWO LAYERS OF REINFORCING

TYPICAL DETAIL

NTS



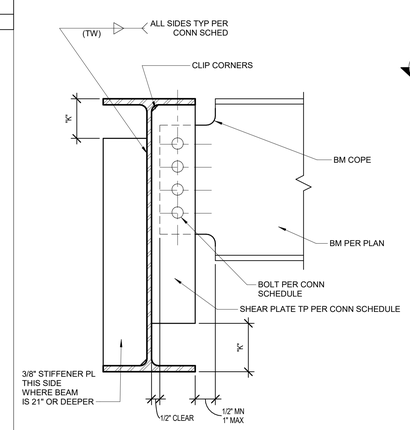
PLAN VIEW - A



7 TWO LAYERS OF REINFORCING

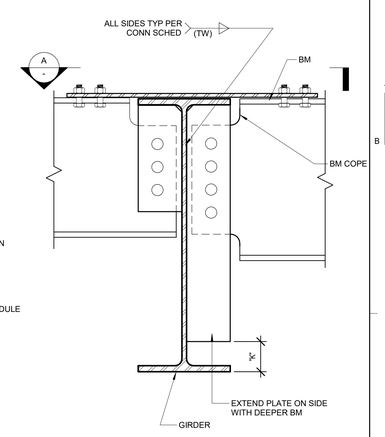
F / S-510

NTS



ONE-SIDED CONNECTION OCCURS WHERE OPPOSITE BEAMS ARE OFFSET BY 12" OR MORE

BEAM ONE SIDE



FOR ITEMS NOW SHOWN OR NOTED SEE "BEAM ONE SIDE"

BEAM EACH SIDE TYP WF BEAM TO WF BEAM

8 TYPICAL BEAM TO TOP OF COLUMN

1 / S-201

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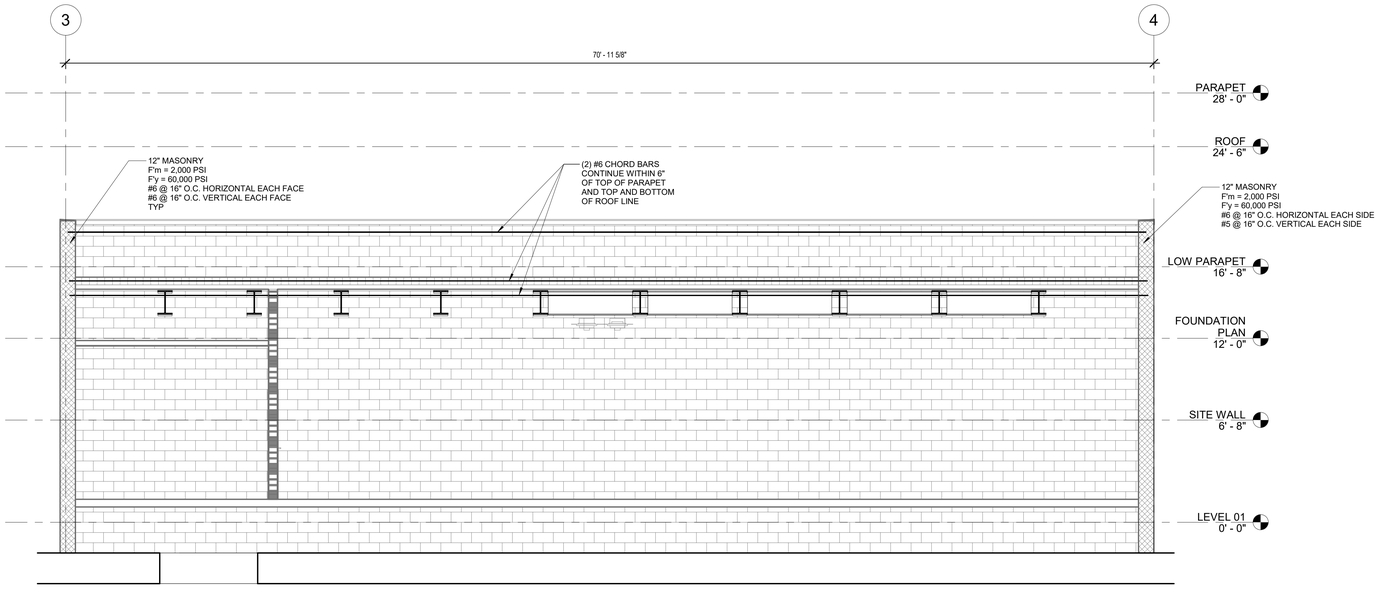
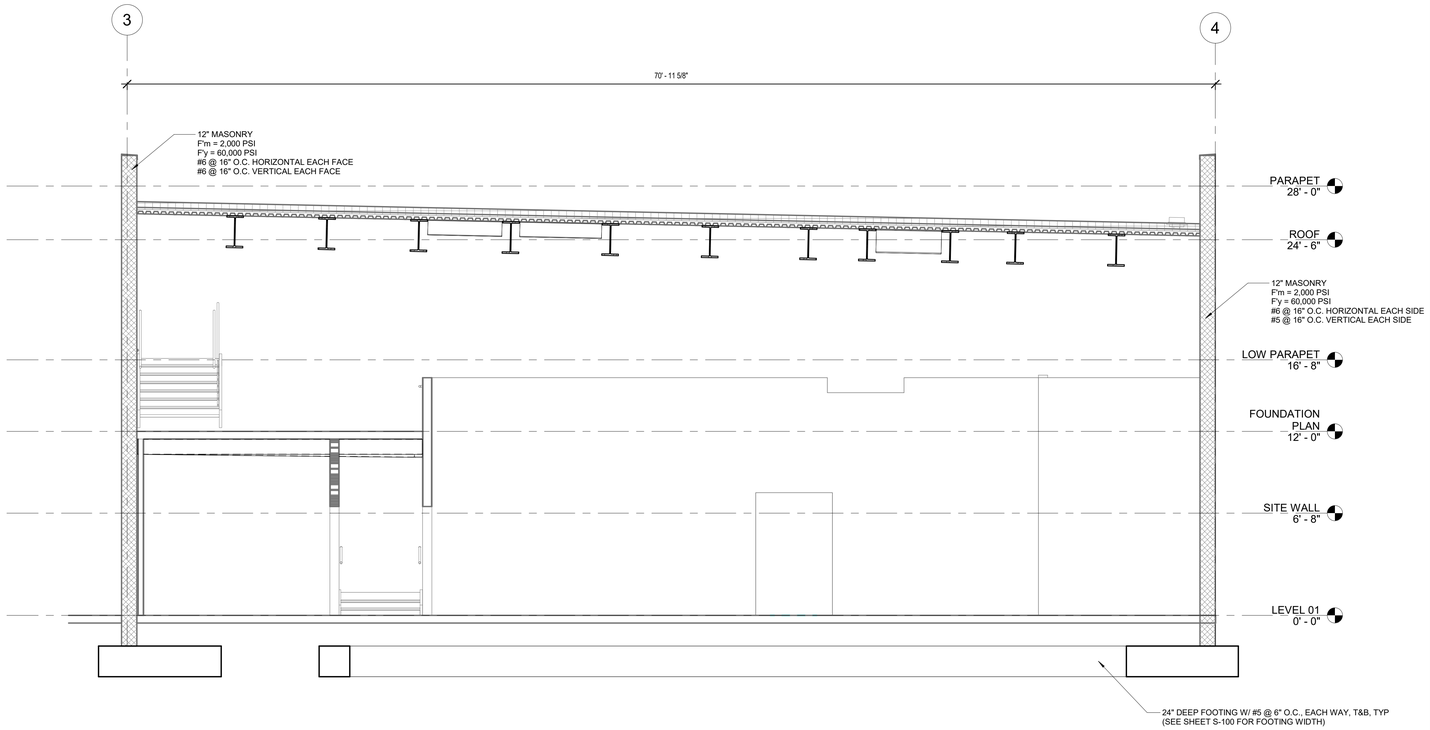


A	SECTION A
1 / S-200	1/4" = 1'-0"



B	SECTION B
1 / S-200	1/4" = 1'-0"

NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFO, DIMENSION, HEIGHTS AND FURTHER INFO.
2. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNITS LOCATION, SPECS AND FURTHER INFO.
3. MECHANICAL UNITS ANCHORAGE TO THE STRUCTURAL FRAMING BY OTHERS.

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Sheet Title
SECTION VIEWS

Sheet No.
S-508

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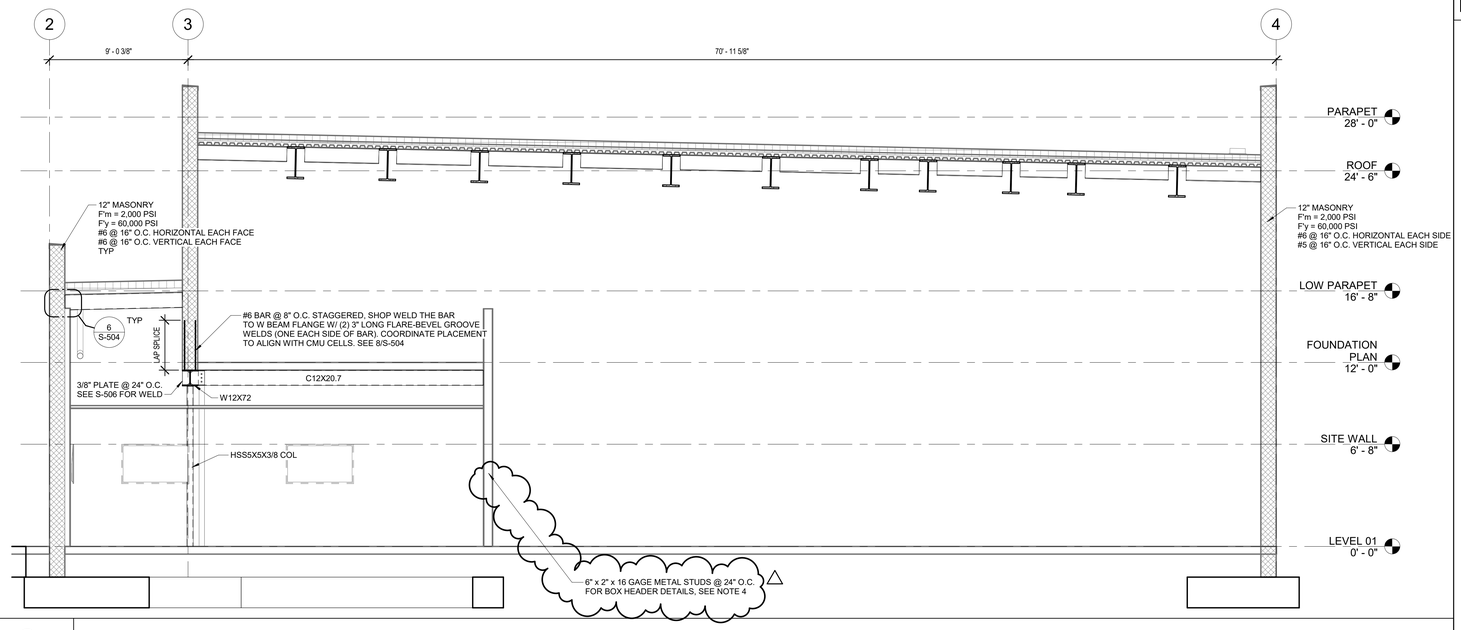
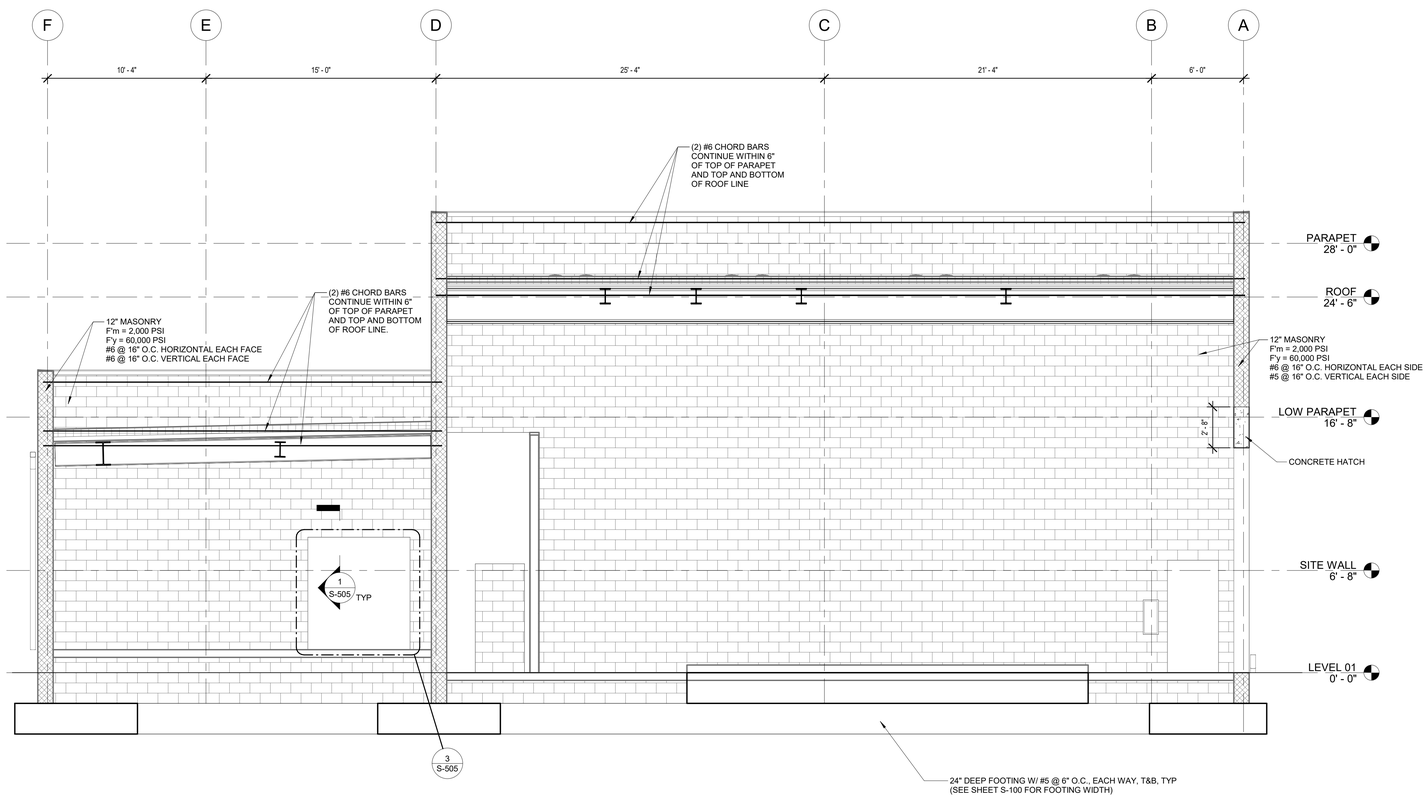


C SECTION C

1 / S-201 | 1/4" = 1'-0"



D SECTION D

1 / S-200 | 1/4" = 1'-0"

NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFO, DIMENSION, HEIGHTS AND FURTHER INFO.
2. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNITS LOCATION, SPECS AND FURTHER INFO.
3. MECHANICAL UNITS ANCHORAGE TO THE STRUCTURAL FRAMING BY OTHERS.
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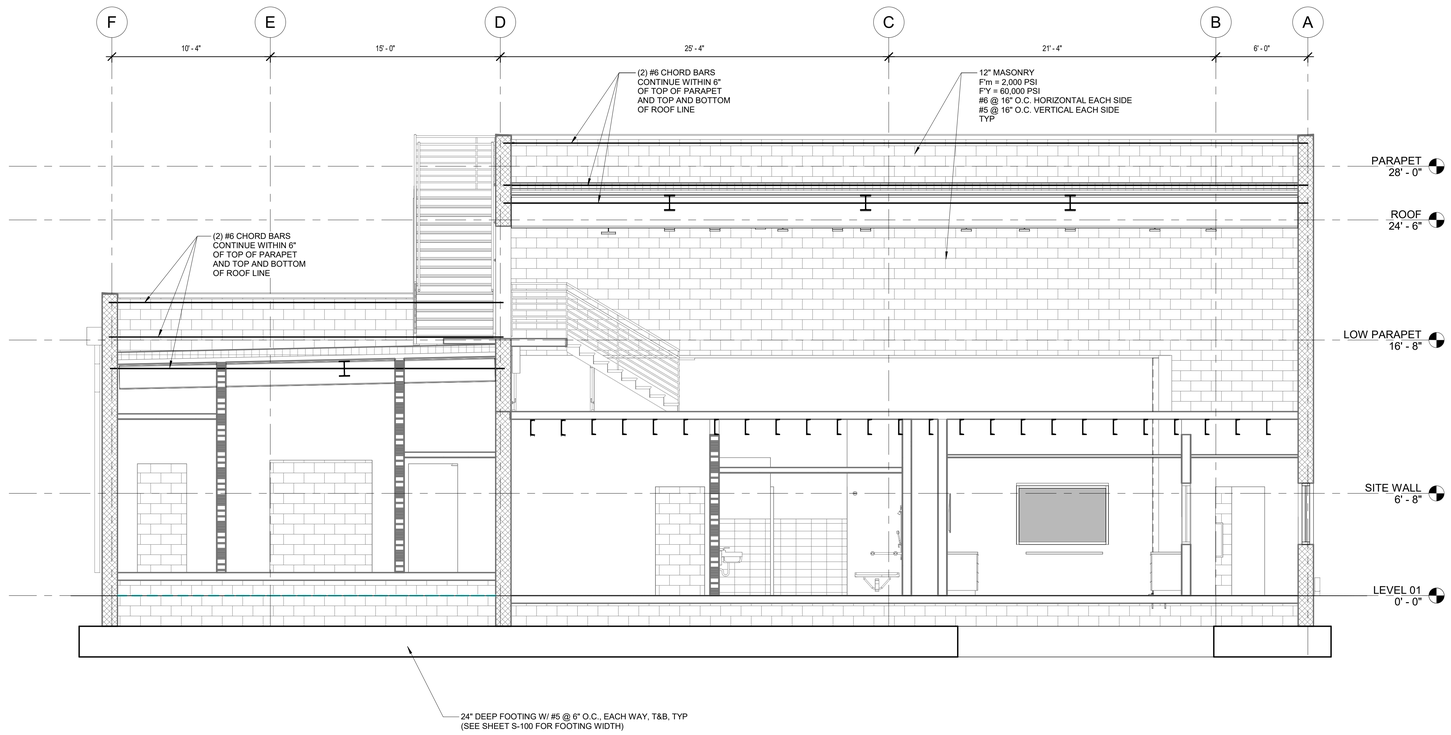
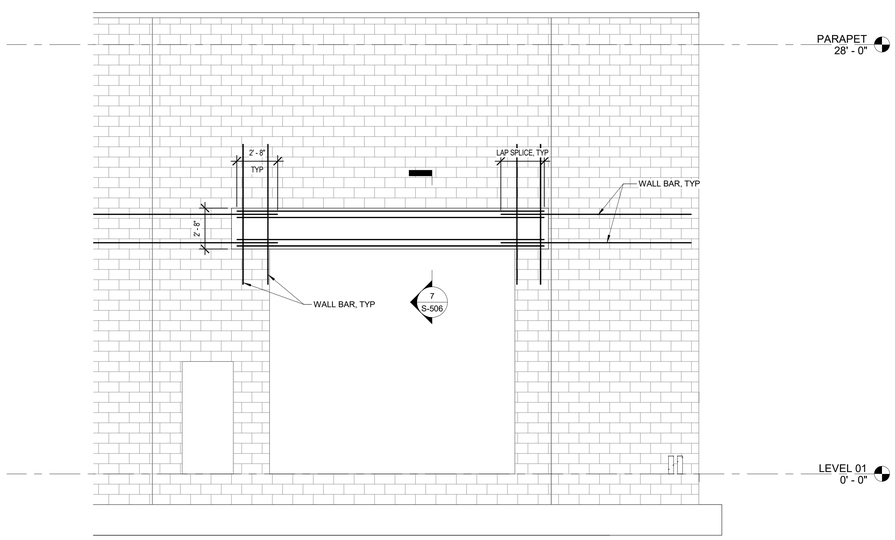


E	SECTION E
1 / S-200	1/4" = 1'-0"



F	ELEVATION
1 / S-100	1/4" = 1'-0"

NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFO, DIMENSION, HEIGHTS AND FURTHER INFO.
2. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNITS LOCATION, SPECS AND FURTHER INFO.
3. MECHANICAL UNITS ANCHORAGE TO THE STRUCTURAL FRAMING BY OTHERS.

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PacRim Engineering
9320 Chesapeake Dr, Suite 218
San Diego, CA 92123

REGISTERED PROFESSIONAL ENGINEER
JERRY DUNAWAY
No. C54085
Exp. 12/31/27
CIVIL
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA92230

PROJECT NO. 2423

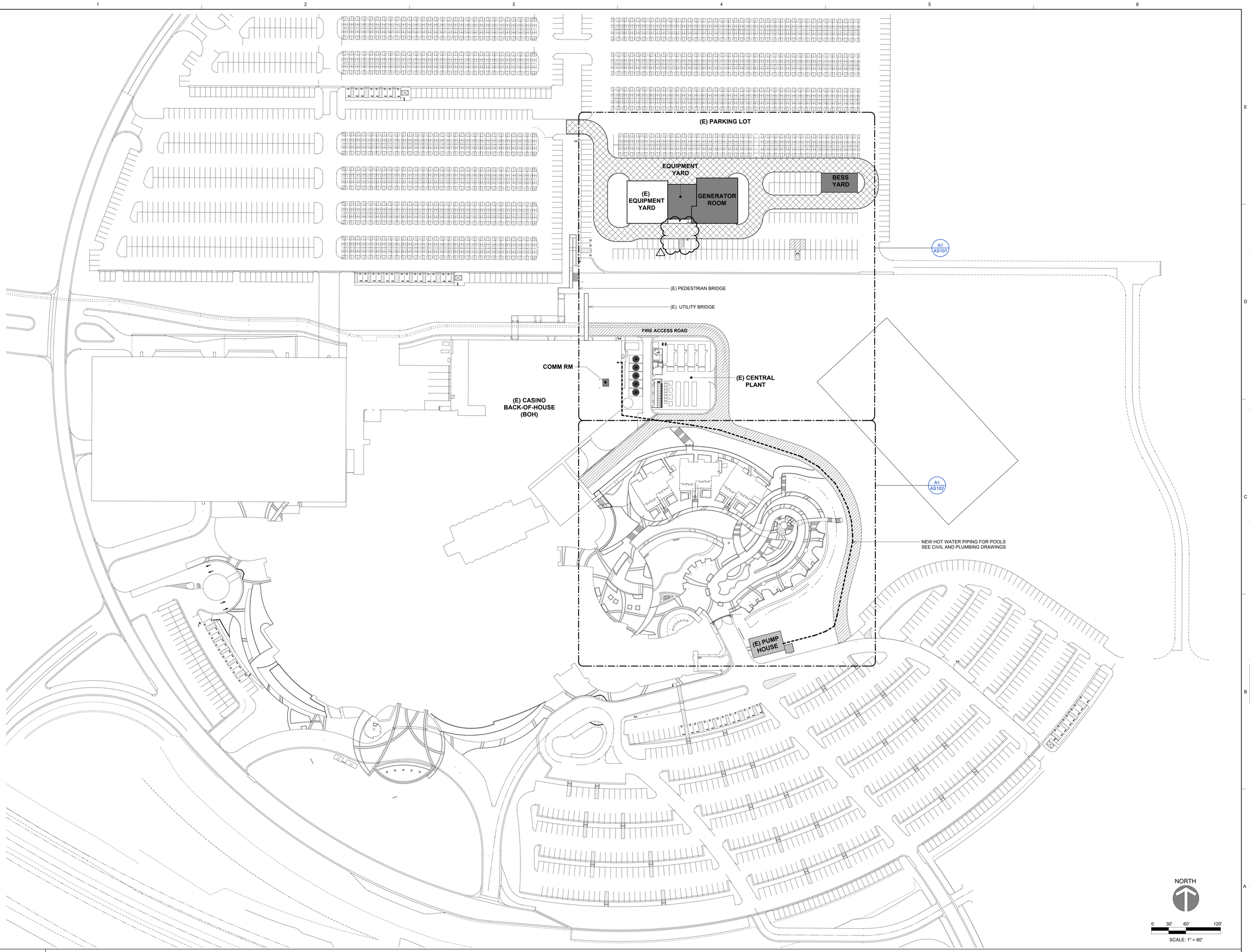
REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
SECTION VIEWS

Sheet No.
S-510

9/3/2026 11:30:27 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



A1 OVERALL SITE PLAN

1 / A03 | 1" = 60'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

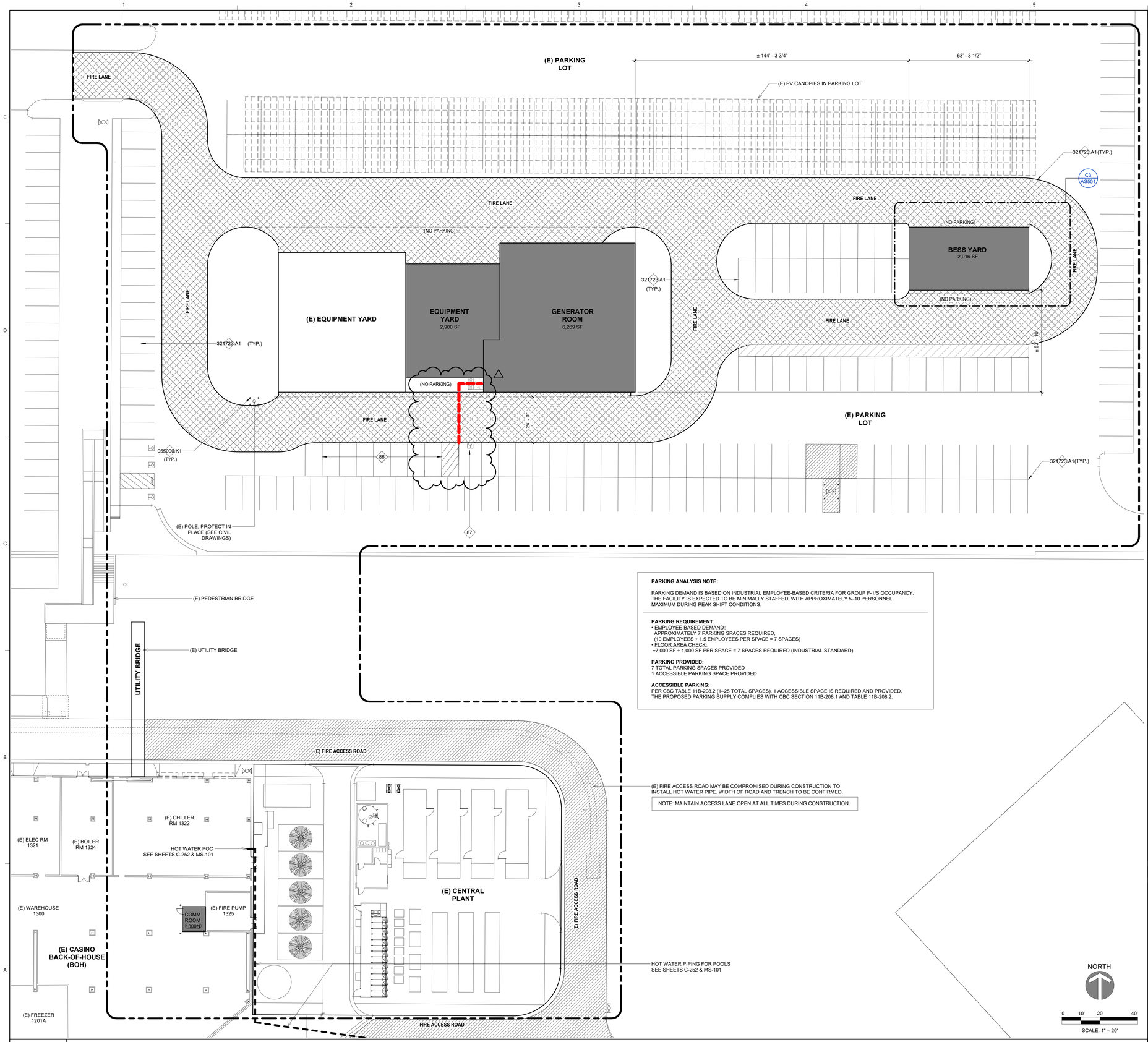
REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
SITE PLAN - OVERALL

Sheet No.
AS100

8/31/2026 2:27:59 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



PARKING ANALYSIS NOTE:

PARKING DEMAND IS BASED ON INDUSTRIAL EMPLOYEE-BASED CRITERIA FOR GROUP F-1/S OCCUPANCY. THE FACILITY IS EXPECTED TO BE MINIMALLY STAFFED, WITH APPROXIMATELY 5–10 PERSONNEL MAXIMUM DURING PEAK SHIFT CONDITIONS.

PARKING REQUIREMENT:
- EMPLOYEE-BASED DEMAND:
  APPROXIMATELY 7 PARKING SPACES REQUIRED,
  (10 EMPLOYEES ÷ 1.5 EMPLOYEES PER SPACE = 7 SPACES)
- FLOOR AREA CHECK:
  ±7,000 SF ÷ 1,000 SF PER SPACE = 7 SPACES REQUIRED (INDUSTRIAL STANDARD)

PARKING PROVIDED:
7 TOTAL PARKING SPACES PROVIDED
1 ACCESSIBLE PARKING SPACE PROVIDED

ACCESSIBLE PARKING:
PER CBC TABLE 11B-208.2 (1–25 TOTAL SPACES), 1 ACCESSIBLE SPACE IS REQUIRED AND PROVIDED.
THE PROPOSED PARKING SUPPLY COMPLIES WITH CBC SECTION 11B-208.1 AND TABLE 11B-208.2.

A1 SITE PLAN - ENLARGED

1 / A03 | 1" = 20'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
055000.K1	STEEL BOLLARDS
321723.A1	PAVEMENT MARKINGS: (PARKING STALL STRIPING, ACCESSIBLE SYMBOLS, DIRECTIONAL ARROWS, CROSSWALK STRIPPING, RED CURB PAINTING, AND FIRE LANE - "NO PARKING" MARKINGS, PER LOCAL FIRE DEPARTMENT REQUIREMENTS)

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
86	STANDARD PARKING SPACE FOR COGEN FACILITY EMPLOYEES, COUNT 6 (AS SHOWN)
87	ACCESSIBLE PARKING SPACE (VAN ACCESSIBLE) PROVIDED IN COMPLIANCE WITH CBC 11B-208.1 AND TABLE 11B-208.2

SITE PLAN LEGEND

AREA OF PROJECT IMPACT

PROVIDE MINIMUM 24'-0" WIDE FIRE DEPARTMENT VEHICLE ACCESS LANE (SEE SHEET G-101)

(E) FIRE ACCESS ROAD

ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE PATH OF TRAVEL PROVIDED FROM PUBLIC WAY AND ACCESSIBLE PARKING TO BUILDING ENTRANCE. PATH IS A MINIMUM 48" WIDE, WITH MAX 2% CROSS SLOPE AND MAX 5% RUNNING SLOPE. PATH IS STRIPED WITHIN PARKING AREA WHERE SIDEWALKS ARE NOT PROVIDED.

FIRE LANE / FIRE APPARATUS ACCESS ROUTE. REQUIRED DISTANCE: 375 FT (250 FT BASED ON CFC, INCREASED 50% FOR NFPA 13 SPRINKLERED BUILDING)

"NO PARKING FIRE LANE" SIGNAGE. SEE DETAIL A1/G-502

NOTE: AREAS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER CBC 11B-203.5 ARE IDENTIFIED ON SHEET A-101. THESE MACHINERY SPACES ARE ACCESSED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR, OR OCCASIONAL MONITORING OF EQUIPMENT.

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
SITE PLAN - ENLARGED

Sheet No.
AS101

8/31/2026 2:27:59 PM
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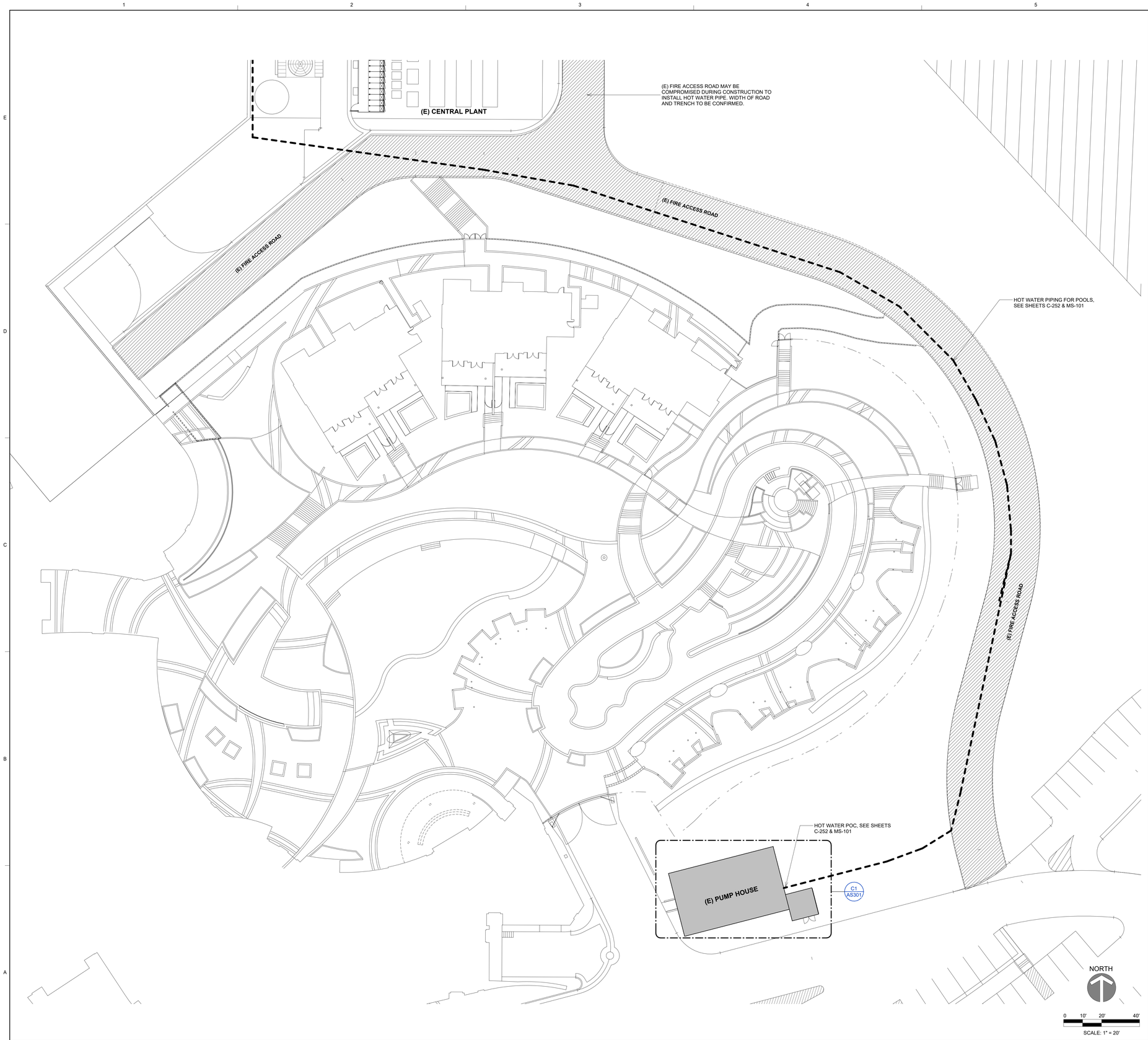
THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
SITE PLAN - ENLARGED

Sheet No.
AS102

A1 | **SITE PLAN - ENLARGED**

1 / A03 | 1" = 20'-0"

8/31/2026 2:28:01 PM
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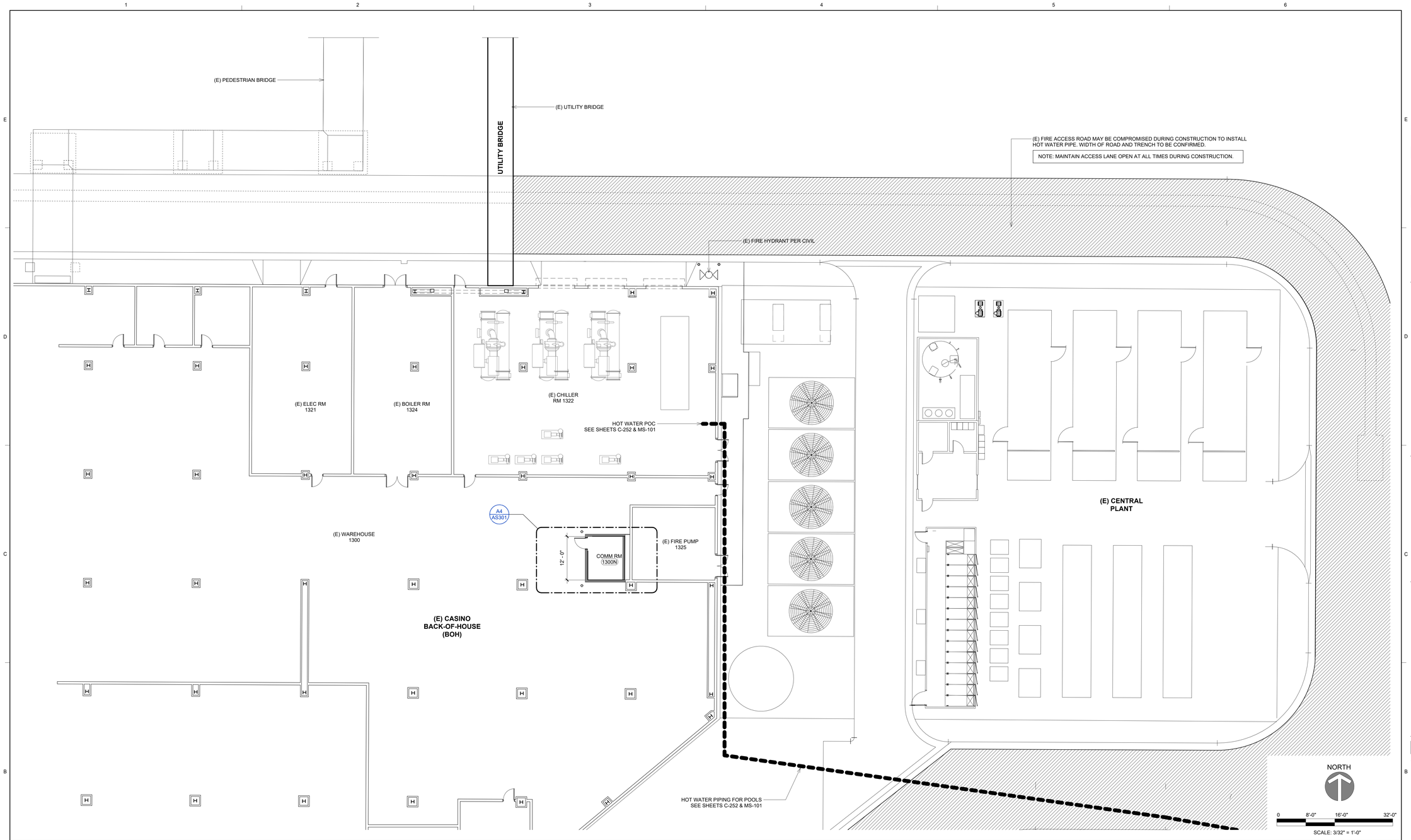

B1 SITE PLAN - ENLARGED

1 / A03 | 3/32" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

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CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
EXISTING EQUIPMENT YARD & CHILLER PLANT

Sheet No.
AS201

8/31/2026 2:28:02 PM
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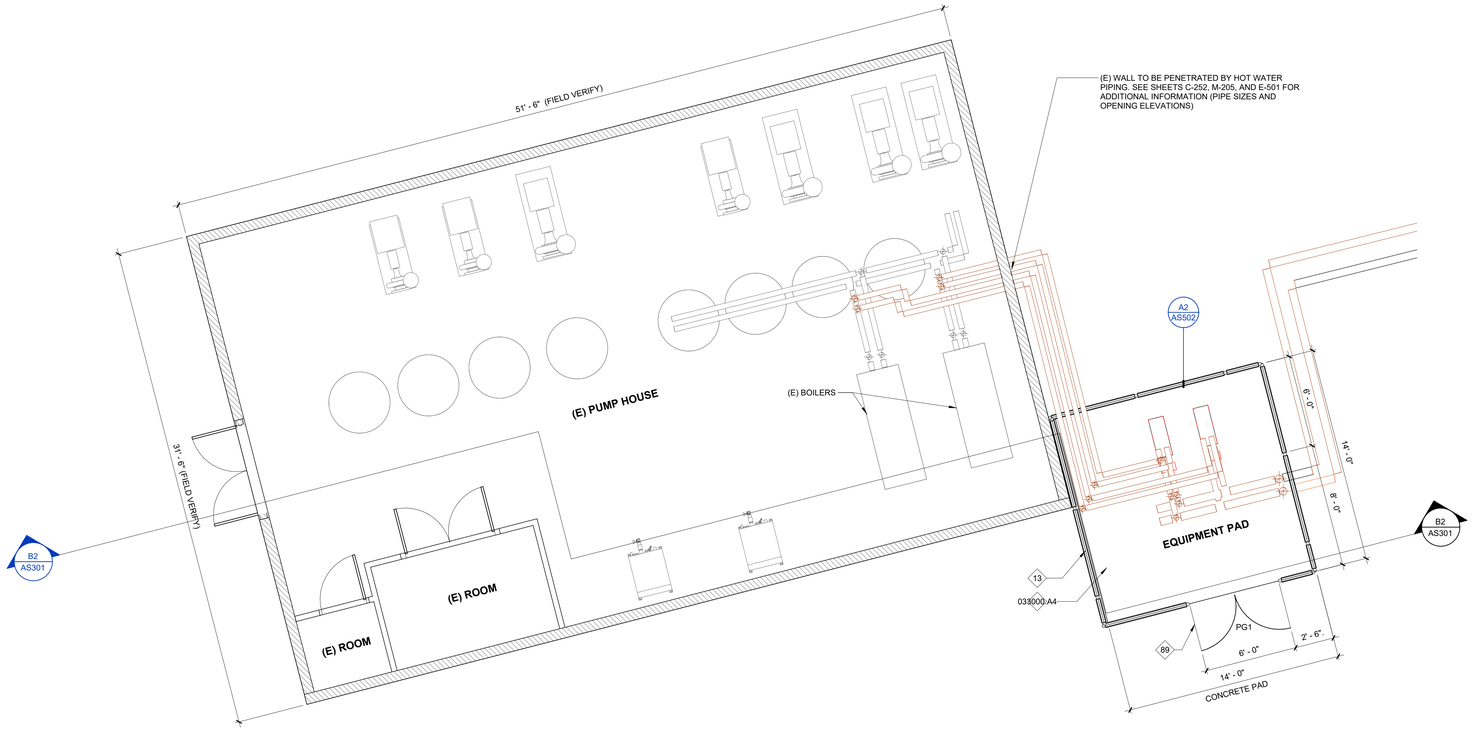
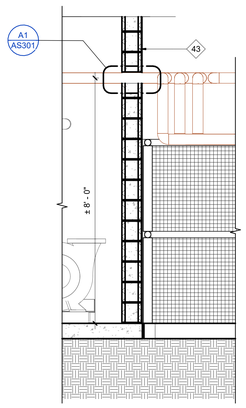


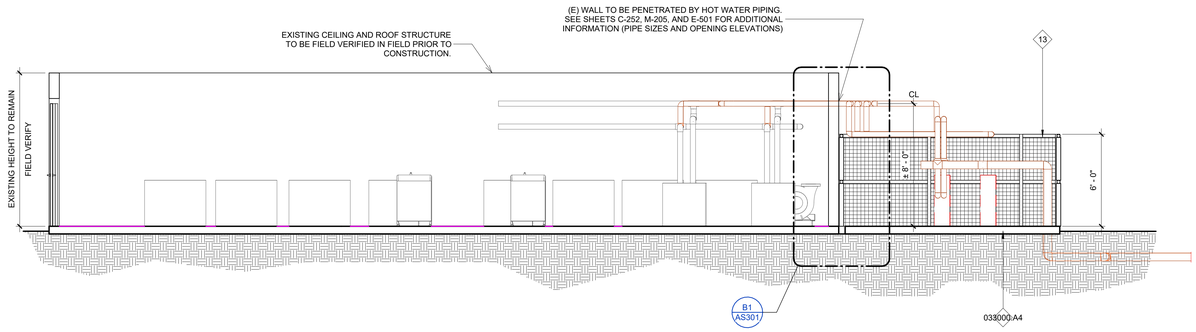
C1 EXISTING POOL EQUIPMENT BUILDING - PLAN

A1 / AS102 | 1/4" = 1'-0"



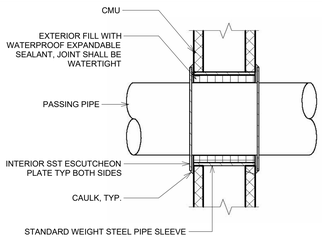
B1 WALL SECTION

B2 / AS301 | 1/2" = 1'-0"



B2 EXISTING POOL EQUIPMENT BUILDING SECTION

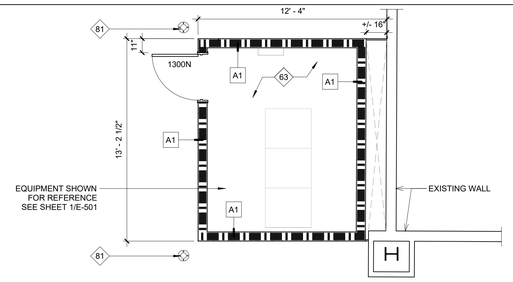
C1 / AS301 | 1/4" = 1'-0"



NOTES:
1. SEE E5/G-502 FOR ADDITIONAL NOTES PIPE PENETRATION NOTES
2. SEE STRUCTURAL DRAWINGS FOR REINFORCED HOLLOW CMU NOTES.

A1 CMU WALL PIPE PENETRATION, TYP.

B1 / AS301 | 6" = 1'-0"



A4 NEW COMMUNICATION ROOM AT (E) CASINO BOH

B1 / AS201 | 1/4" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
033000.A4	CAST-IN-PLACE CONCRETE SLAB-ON-GRADE

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
13	CHAINLINK FENCE WITH GALVANIZED STEEL POST
43	EXISTING WALL
63	RELOCATE EXISTING RACKS
81	PROVIDE INTERIOR BOLLARDS, SEE C2/AS502
89	GALVANIZED STEEL GATE WITH LOCKABLE HASP, SEE DOOR / GATE SCHEDULE

FLOOR PLAN LEGEND

- EXISTING WALL - PER PLAN
- NEW INTERIOR METAL STUD WALL
- 100 — DOOR NUMBER. PER DOOR SCHEDULE
- A — WALL TYPE. PER WALL SCHEDULE
- 1300N — INDICATES NEW ROOM WITHIN EXISTING BUILDING

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
3. REFER TO CIVIL DRAWINGS FOR ALL UNDERGROUND UTILITIES AND PIPING.
4. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

NORTH

0 1'-0" 2'-0" 4'-0"
SCALE: 1/2" = 1'-0"

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

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PHASE 2 - IFC 2026.06.10

Sheet Title
EXISTING POOL EQUIPMENT BUILDING & NEW COMMUNICATION ROOM AT (E) CASINO BOH

Sheet No.
AS301

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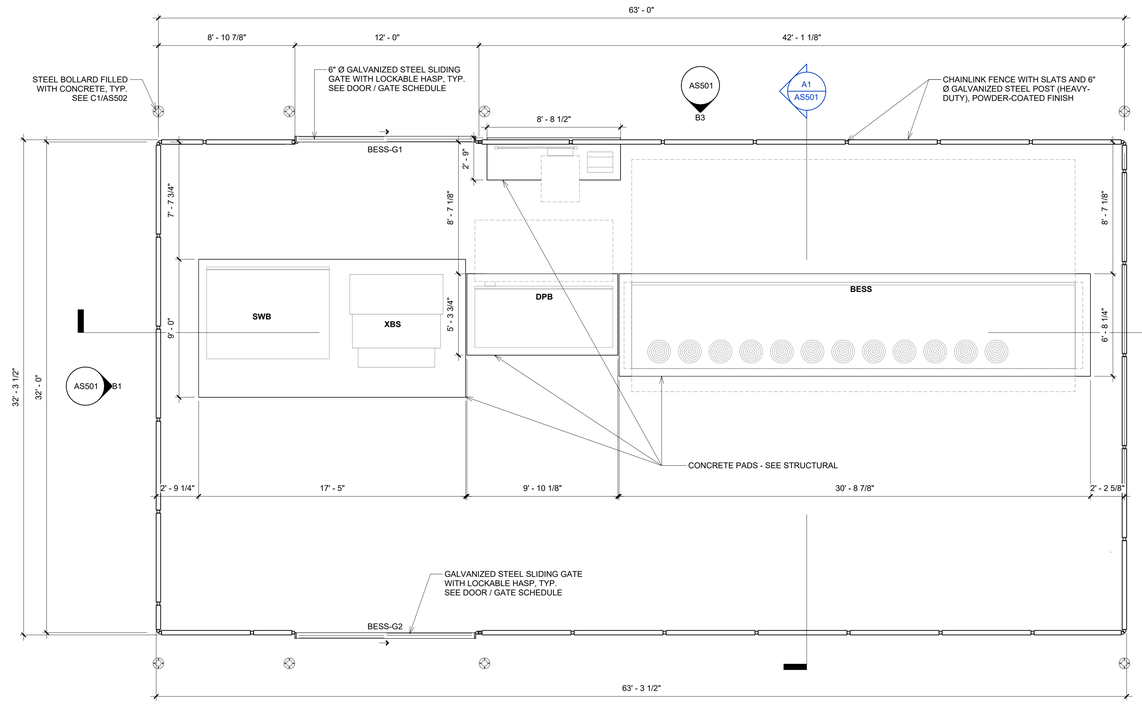


GENERAL NOTES:

1. BESS EQUIPMENT (CONTAINERS, INTERNAL COMPONENTS, AND MANUFACTURER DETAILS) TO BE PART OF BESS DEFERRED SUBMITTAL.

2. FOUNDATIONS, EQUIPMENT PADS (PER STRUCTURAL), FENCING, AND ASSOCIATED SITE WORK (SEE CIVIL) ARE INCLUDED IN THIS PERMIT SUBMITTAL AND ARE NOT PART OF THE DEFERRED SUBMITTAL.

3. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

4. - - - - - - - - - - INDICATES REQUIRED EQUIPMENT CLEARANCE AREA PER CODE.

5. REFER TO CIVIL DRAWINGS FOR ALL UNDERGROUND UTILITIES AND PIPING.

NOTE: THE BESS SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, INCLUDING CONSIDERATION OF SETBACKS, OFFSETS, SPACE CLEARANCES, EMERGENCY VENTILATION/PREVENTION MEASURES, BATTERY SEPARATION DISTANCES, AND HAZARD MITIGATION REQUIREMENTS (BASED ON UL 94 DATA).

APPLICABLE CODES INCLUDE:

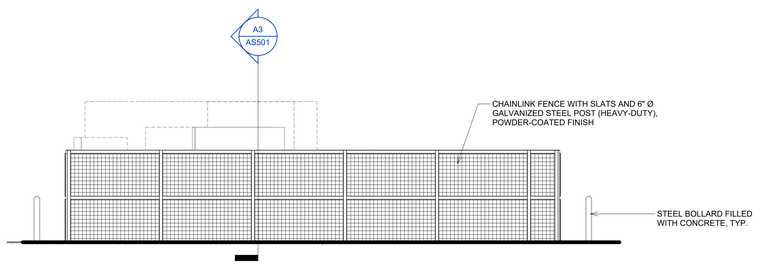
• 2022 CALIFORNIA FIRE CODE (CFC), CHAPTER 12 – ENERGY SYSTEMS

• 2022 CALIFORNIA BUILDING CODE (CBC), JULY 2024 SUPPLEMENT

• 2022 CALIFORNIA ELECTRICAL CODE (CEC), WHICH REFERENCES NFPA 70 FOR ELECTRICAL DESIGN, WIRING, AND EQUIPMENT INSTALLATION.

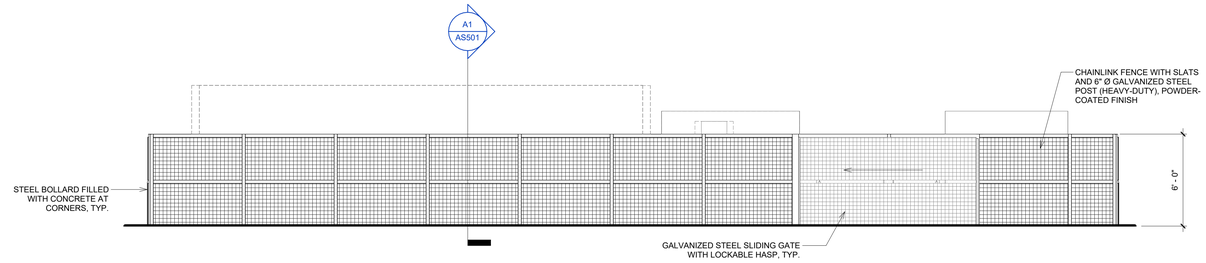
C3 BATTERY ENERGY STORAGE SYSTEM (BESS) YARD PLAN

A1 / AS101 | 1/4" = 1'-0"



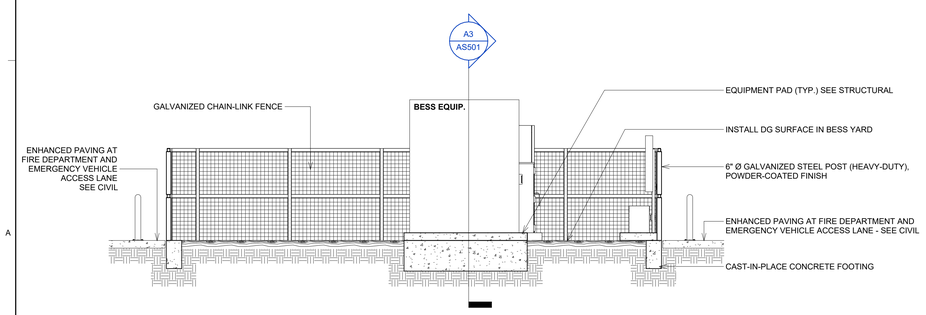
B1 BESS - WEST ELEVATION (EAST ELEVATION SIMILAR)

C3 / AS501 | 1/4" = 1'-0"



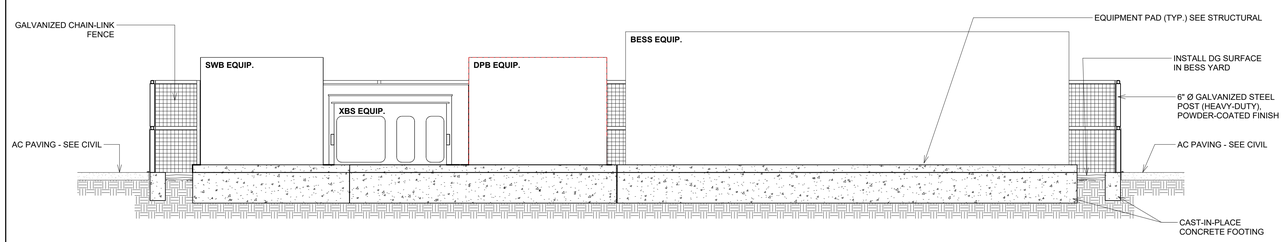
B3 BESS - NORTH ELEVATION (SOUTH ELEVATION SIMILAR)

C3 / AS501 | 1/4" = 1'-0"



A1 SECTION THROUGH BESS CONCRETE PAD

B3 / AS501 | 1/4" = 1'-0"



A3 SECTION THROUGH BESS CONCRETE PAD - LONG

A1 / AS501 | 1/4" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

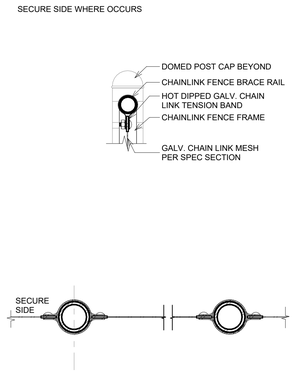
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
ARCHITECTURAL SITE DETAILS - BESS

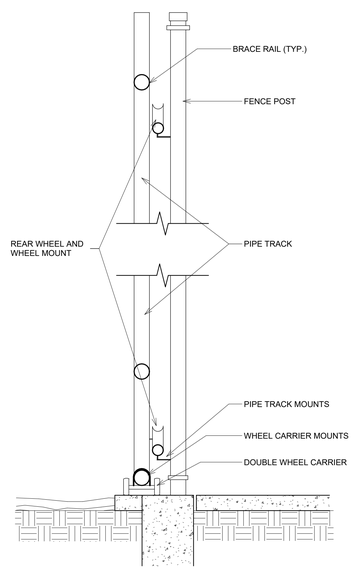
Sheet No.
AS501



D1 PLAN @ CHAINLINK CONNECTIONS

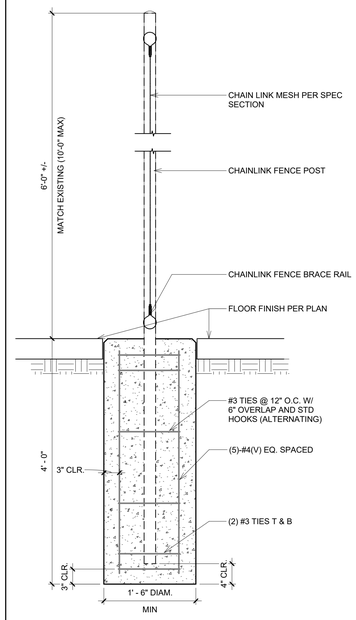
A2 / AS502 — 1 1/2" = 1'-0"

NOTE: SEE DETAIL D1/AS502 FOR TYP. CONNECTIONS



D2 CHAINLINK SLIDING GATE SECTION

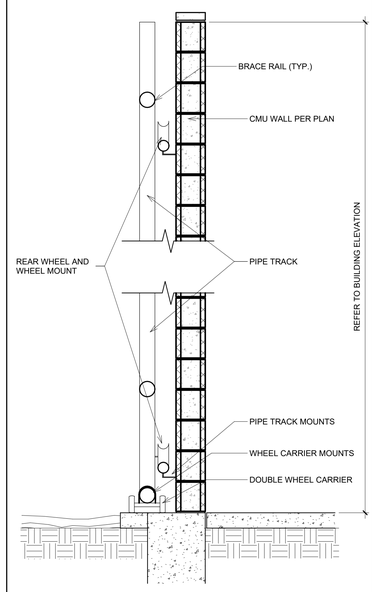
A4 / AS502 — 3/4" = 1'-0"



D3 CHAINLINK GATE & FOOTING

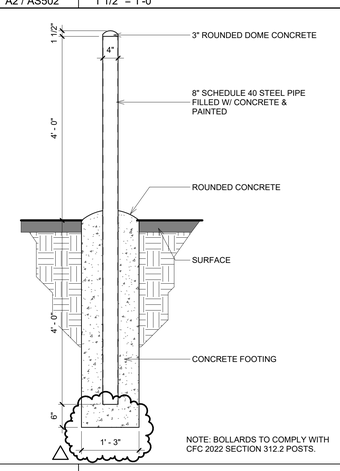
A2 / AS502 — 1" = 1'-0"

NOTE: SEE DETAIL D1/AS502 FOR TYP. CONNECTIONS



D4 CHAINLINK SLIDING GATE AT CMU WALL

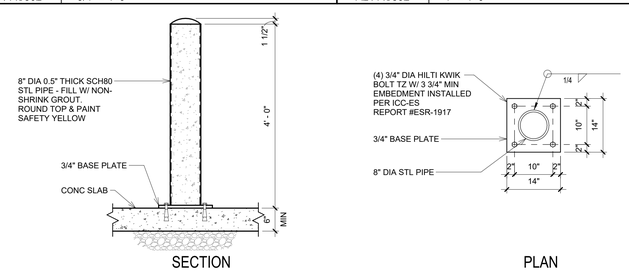
3/4" = 1'-0"



NOTE: BOLLARDS TO COMPLY WITH CFC 2022 SECTION 312.2 POSTS.

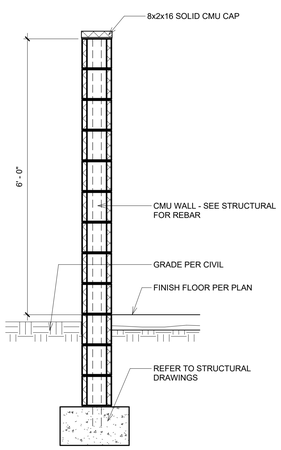
C1 SECTION - BOLLARD

3/4" = 1'-0"



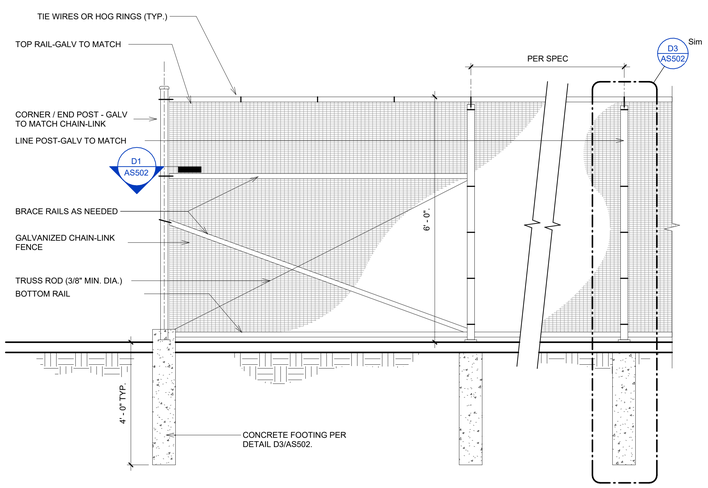
C2 TYPICAL INTERIOR BOLLARD

3/4" = 1'-0"



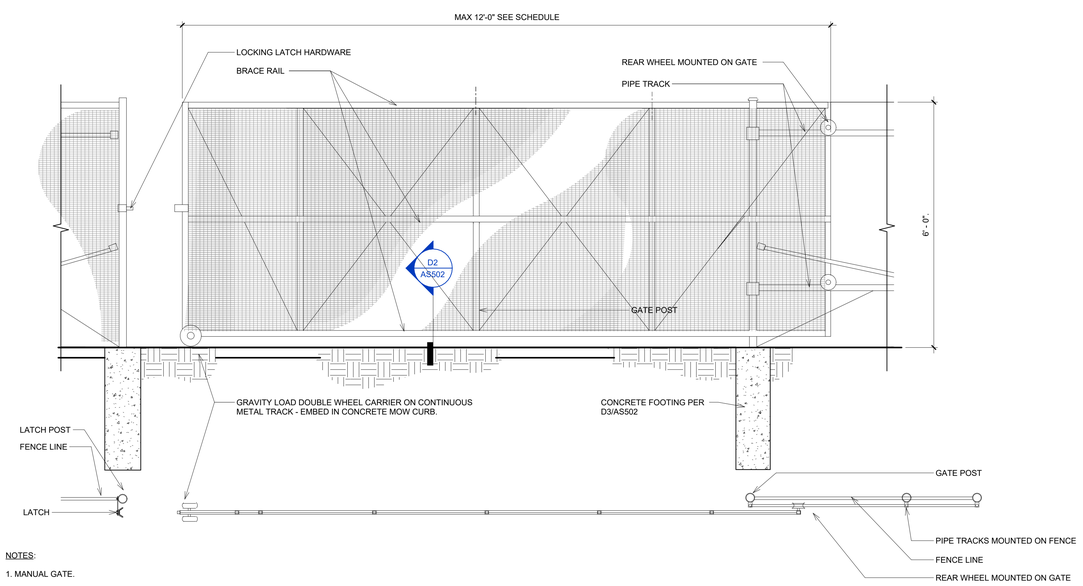
A1 EXTERIOR CMU EQUIPMENT YARD WALL

3/4" = 1'-0"



A2 TYPICAL CHAINLINK FENCE

C1 / AS301 — 1/2" = 1'-0"



NOTES:

1. MANUAL GATE.

2. THIS DRAWING IS PROVIDED FOR REFERENCE TO IDENTIFY DESIRED AESTHETIC. CONTRACTOR'S DESIGNER OF RECORD MUST PROVIDE FINAL DESIGN.

A4 INTERIOR SINGLE WHEEL-SUPPORTED SLIDING GATE

1/2" = 1'-0"

8/31/2026 2:28:07 PM
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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
ARCHITECTURAL SITE DETAILS

Sheet No.
AS502

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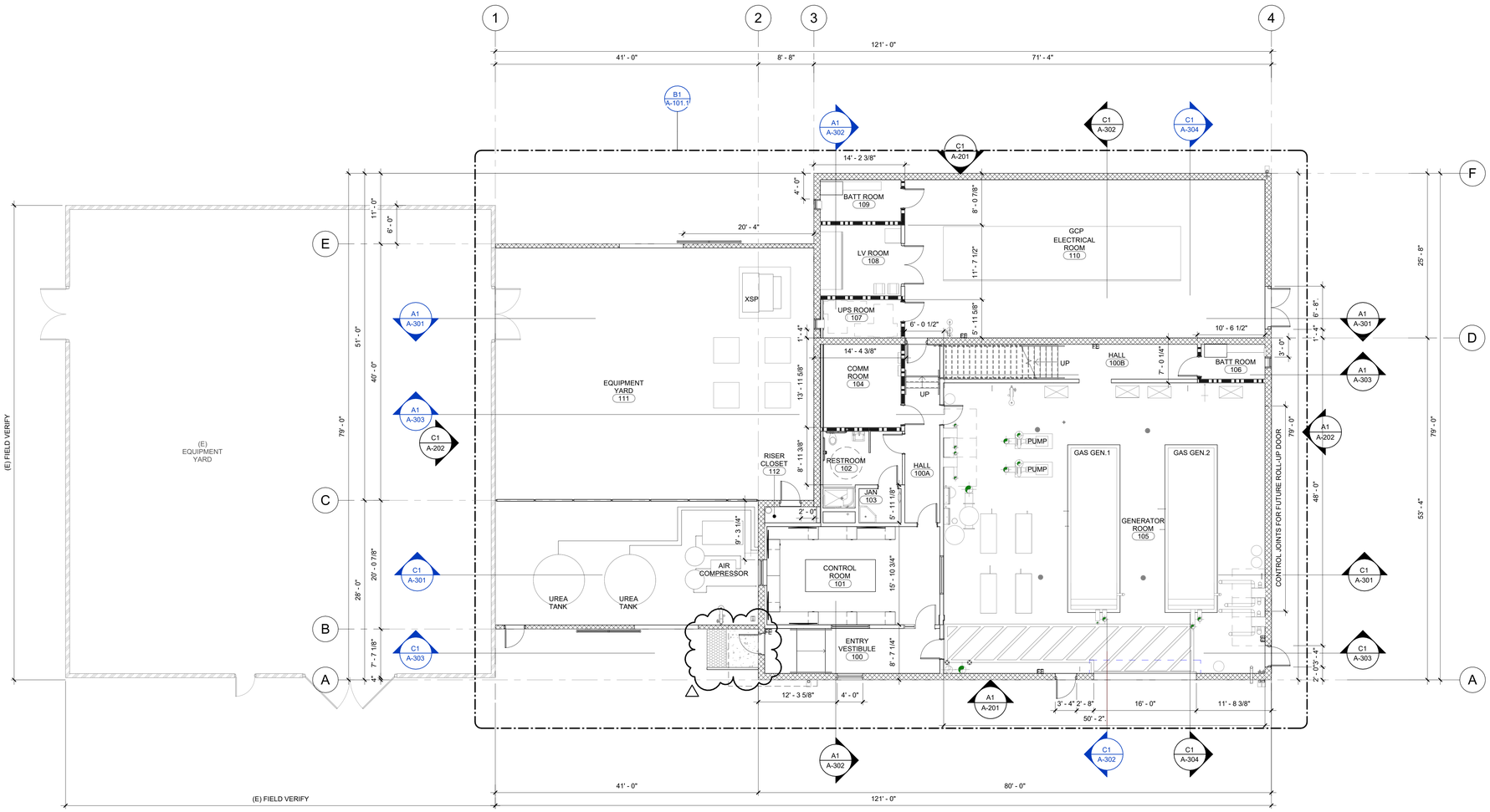


NORTH

0 4'-0" 8'-0" 16'-0"

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

B1 LEVEL 1 - OVERALL FLOOR PLAN

1 / A03 1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

FLOOR PLAN LEGEND

- EXISTING CMU WALL
- CMU WALL - PER WALL TYPE (SEE SHEET A-601)
- 1 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- 2 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- INTERIOR METAL STUD WALL - PER WALL TYPE (SEE SHEET A-601)

LIST OF SPACES

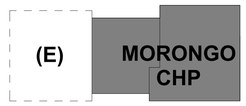
NUMBER	NAME	AREA
100	ENTRY VESTIBULE	191 SF
100A	HALL	152 SF
100B	HALL	214 SF
101	CONTROL ROOM	412 SF
102	RESTROOM	120 SF
103	JAN	35 SF
104	* COMM ROOM	158 SF
105	* GENERATOR ROOM	2273 SF
106	* BATT ROOM	54 SF
107	* UPS ROOM	77 SF
108	* LV ROOM	139 SF
109	* BATT ROOM	82 SF
110	* ELECTRICAL ROOM	1399 SF
112	* RISER CLOSET	20 SF
201	* STORAGE	956 SF
GROSS BUILDING AREA		6280 SF

* INDICATES AREAS EXEMPT PER CBC SECTION 11B-203.5. ACCESS IS LIMITED TO SERVICE PERSONNEL FOR MAINTENANCE, REPAIR, OR OCCASIONAL EQUIPMENT MONITORING OF EQUIPMENT ONLY. ALL OTHER OCCUPIED SPACES SHALL BE SERVED BY AN ACCESSIBLE ROUTE PER CBC CHAPTER 11B.

SHEET KEYNOTES (SEE ENLARGED PLANS)

NUMBER	SHEET NOTE TEXT

KEY PLAN



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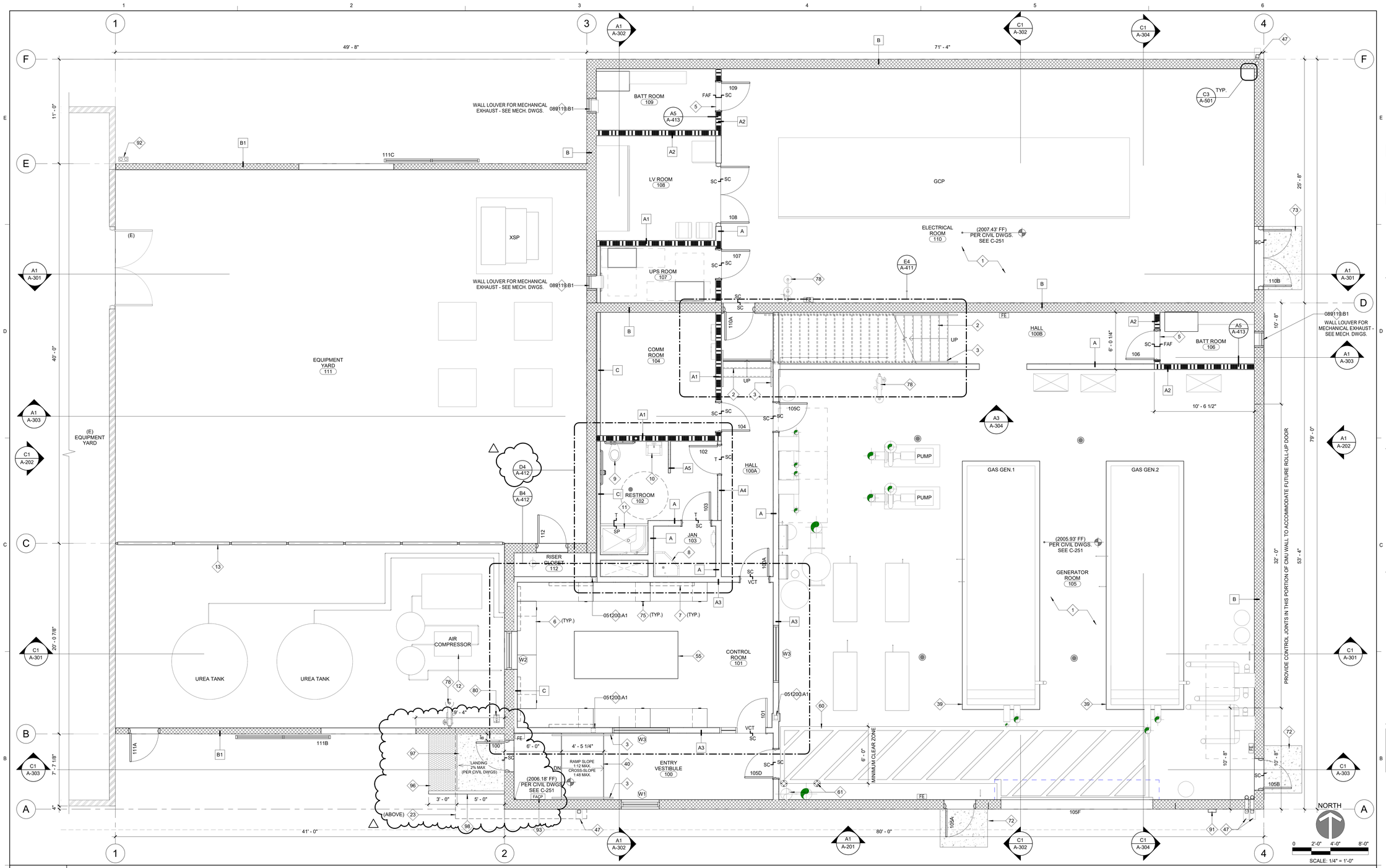
B	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 1 OVERALL FLOOR PLAN

Sheet No.
A-101



B1 LEVEL 1 - FLOOR PLAN

1 / A03 | 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

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FLOOR PLAN LEGEND

- EXISTING CMU WALL
- CMU WALL - PER WALL TYPE (SEE SHEET A-601)
- 1 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- 2 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- INTERIOR METAL STUD WALL - PER WALL TYPE (SEE SHEET A-601)
- 100 — DOOR NUMBER - PER DOOR SCHEDULE (SEE SHEET A-611)
- 1t — WINDOW TYPE - PER WINDOW SCHEDULE (SEE SHEET A-611)
- A — WALL TYPE - PER WALL TYPE (SEE SHEET A-601)
- FF — INDICATES FLOOR FINISH. REFER TO SHEET A-413 FOR INTERIOR FINISHES SCHEDULE, SHEET G-002 FOR ARCHITECTURAL ABBREVIATIONS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
3	TUBE STEEL GUARDRAIL AND HANDRAILS, TYP.
5	PROVIDE 4" TALL CONCRETE CONTAINMENT CURB AT BATTERY ROOM DOORS, TYP.
6	PROPOSED LOCATIONS OF WORKSTATIONS, SEE COUNTERTOP DETAIL C5/A-413; PROVIDE POWER AND DATA ACCORDINGLY, INCLUDING REQUIRED GROMMETS, SEE C4/A-413
7	PROVIDE TV AND BACK BOX AS NEEDED. COORDINATE ELEVATION AND EXACT LOCATION WITH OWNER
8	JANITOR SINK. SEE PLUMBING
9	WATER CLOSET. SEE PLUMBING
10	LAVATORY SINK. SEE PLUMBING
11	PREFAB SOLID SURFACE FINISHED SHOWER PAN ON DEPRESSED SLAB. SEE A3/A-413
12	PROVIDE ROOF COVER OVER AIR COMPRESSOR AT EQUIPMENT YARD
13	CHAINLINK FENCE WITH GALVANIZED STEEL POST
23	ENTRY CANOPY. SEE A3/A-501
39	EQUIPMENT CONCRETE PADS. SEE STRUCTURAL DRAWINGS
40	INTERIOR ACCESSIBLE RAMP
47	DOWNSPOUT AND SPLASH BLOCK
55	CONTROL STATION - FFE BY OWNER. SEE ELECTRICAL FOR FLOOR BOX INFORMATION
60	6'-0" MIN. WIDE FLOOR STRIPE - CLEAR ZONE
61	PROVIDE STEEL BOLLARDS TO PROTECT VERTICAL PIPING
72	PROVIDE CONCRETE STOOP - 4'-0" DEEP x 5'-0" WIDE

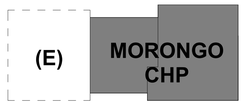
SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
73	PROVIDE CONCRETE STOOP - 4'-0" DEEP x 7'-0" WIDE
75	BASE CABINET WITH DRAWERS. SEE A1/A-413
78	EYE WASH STATION. SEE PLUMBING
80	GAS METER. SEE P-101 & C-251
91	WATER POC PER CIVIL AND PLUMBING DRAWINGS
92	FIRE WATER BACKFLOW, FDC, AND PIV PER CIVIL AND PLUMBING DRAWINGS
93	FIRE ALARM CONTROL PANEL - SEE 1/FA101
96	CONCRETE TRUNCATED DOMES PER CIVIL, DETAIL D3/C-451
97	PROVIDE CONCRETE STOOP - 5'-0" DEEP x 5'-0" WIDE
98	PROVIDE 4" RAISED CURB/EDGE PROTECTION AT ACCESSIBLE ENTRY LANDING

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
089119.B1	LOUVER SCREEN

KEY PLAN



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

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1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 1 - FLOOR PLAN

Sheet No.
A-101.1

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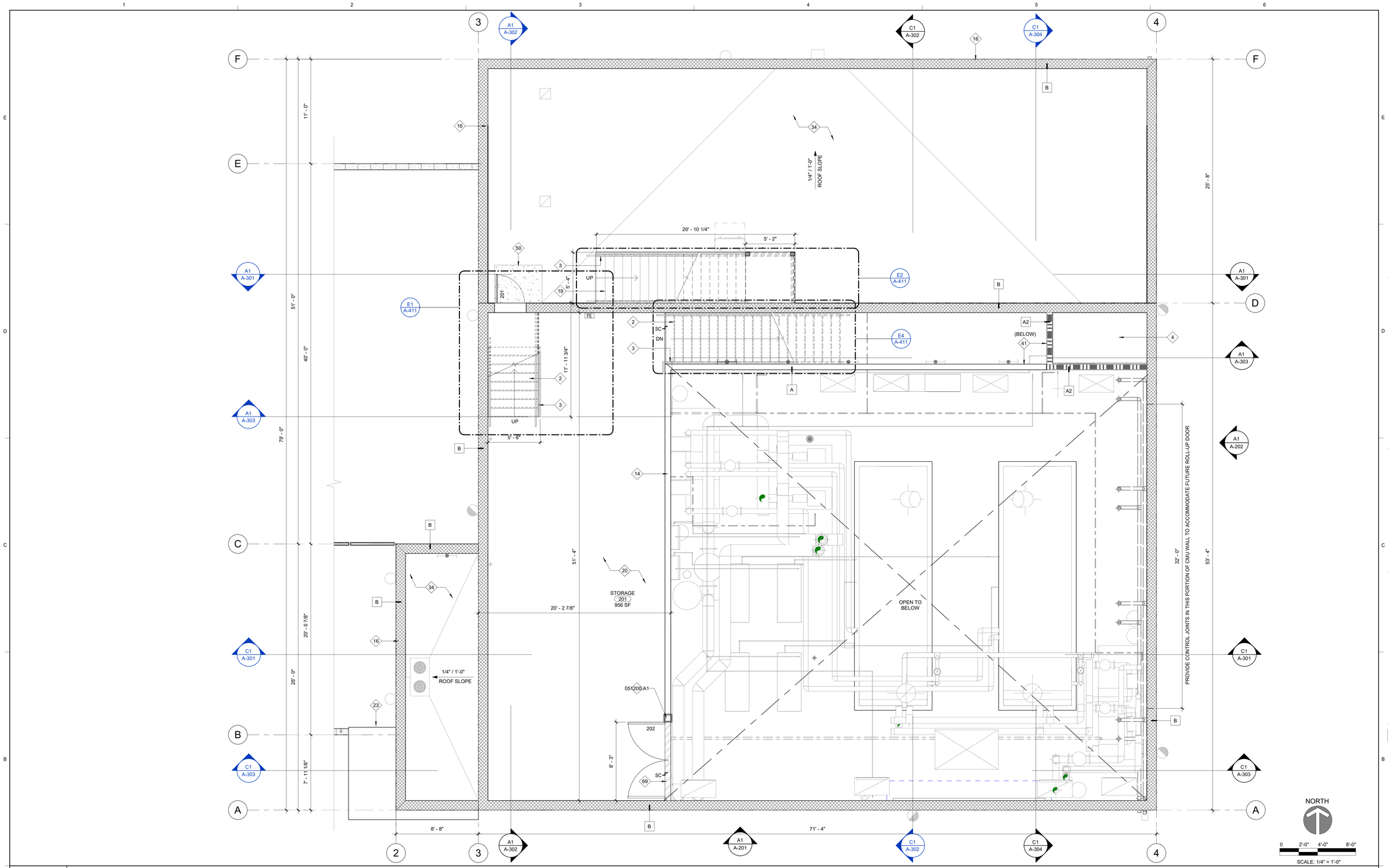


B1 LEVEL 2 - MEZZANINE PLAN

1 / A03 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

FLOOR PLAN LEGEND

- EXISTING CMU WALL
- CMU WALL - PER WALL TYPE (SEE SHEET A-601)
- 1 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- 2 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
- INTERIOR METAL STUD WALL - PER WALL TYPE (SEE SHEET A-601)
- 100 DOOR NUMBER - PER DOOR SCHEDULE (SEE SHEET A-611)
- 11 WINDOW TYPE - PER WINDOW SCHEDULE (SEE SHEET A-611)
- A WALL TYPE - PER WALL TYPE (SEE SHEET A-601)
- FF INDICATES FLOOR FINISH. REFER TO SHEET A-413 FOR INTERIOR FINISHES SCHEDULE, SHEET G-002 FOR ARCHITECTURAL ABBREVIATIONS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

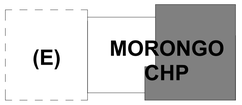
REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
3	TUBE STEEL GUARDRAIL AND HANDRAILS, TYP.
4	PROVIDE FIRE-RATED HARD LID CEILING. SEE DETAIL D2/A-601
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
16	EXTENDED PARAPET CAP FRAMED WITH LIGHT GAUGE STEEL
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
23	ENTRY CANOPY. SEE A3/A-501
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
41	WALL PER PLAN
50	STEP DOWN AT DOOR TO LOWER ROOF
69	L4x4x3/8" STEEL EDGE ANGLE AT SLAB EDGE FOR IMPACT PROTECTION; ANCHOR PER STRUCTURAL

KEY PLAN



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 2 - MEZZANINE

Sheet No.
A-101.2

8/31/2026 2:28:14 PM
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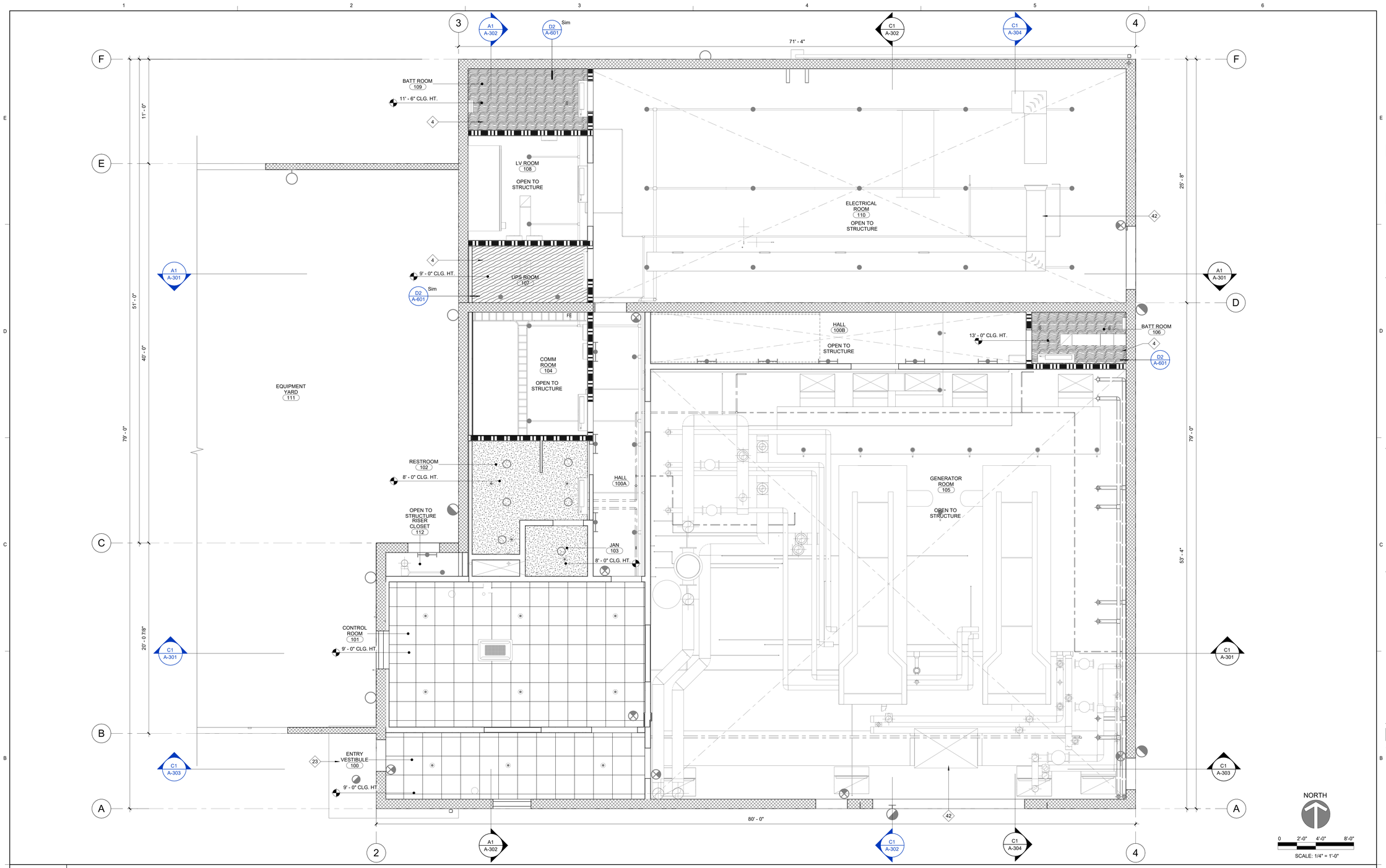


B1 LEVEL 1 - REFLECTED CEILING PLAN

1 / A03 1/4" = 1'-0"

CEILING LEGEND

- ACCESS PANEL
- SD SMOKE DETECTOR
- MECHANICAL FIXTURES - SEE MECHANICAL DRAWINGS
- OS ELECTRICAL FIXTURES - SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS - SEE FIRE PROTECTION DRAWINGS
- 2'-0" x 2'-0" ACT CEILING - SEE E1/A-511
- GYPSUM BOARD CEILING - SEE A1/A-601
- 2HR RATED GYPSUM BOARD CEILING - SEE D2/A-601
- 1HR RATED GYPSUM BOARD CEILING - SEE D2/A-601
- OPEN TO STRUCTURE ABOVE

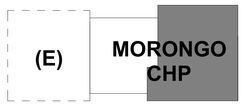
GENERAL NOTES

1. SEE DETAIL D2/A-511 FOR TYPICAL CEILING FRAMING DETAIL.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
3. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.
4. REFER TO ELECTRICAL FOR LIGHT FIXTURES TYPES, NOTES AND SCHEDULES.
5. REFER TO MECHANICAL FOR AIR DISTRIBUTION SYSTEM AND EXHAUST GRILLES.
6. SUSPENDED CEILING SYSTEM PER ESR-2631 (or ESR-3336) AND DESIGNED IN ACCORDANCE WITH ASCE 7-19 §13.5.6

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
4	PROVIDE FIRE-RATED HARD LID CEILING. SEE DETAIL D2/A-601
23	ENTRY CANOPY. SEE A3/A-501
42	EQUIPMENT, DUCTS, AND PIPING. SEE MEP DRAWING. SHOWN FOR REFERENCE ONLY

KEY PLAN



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 1 - REFLECTED CEILING PLAN

Sheet No.
A-111

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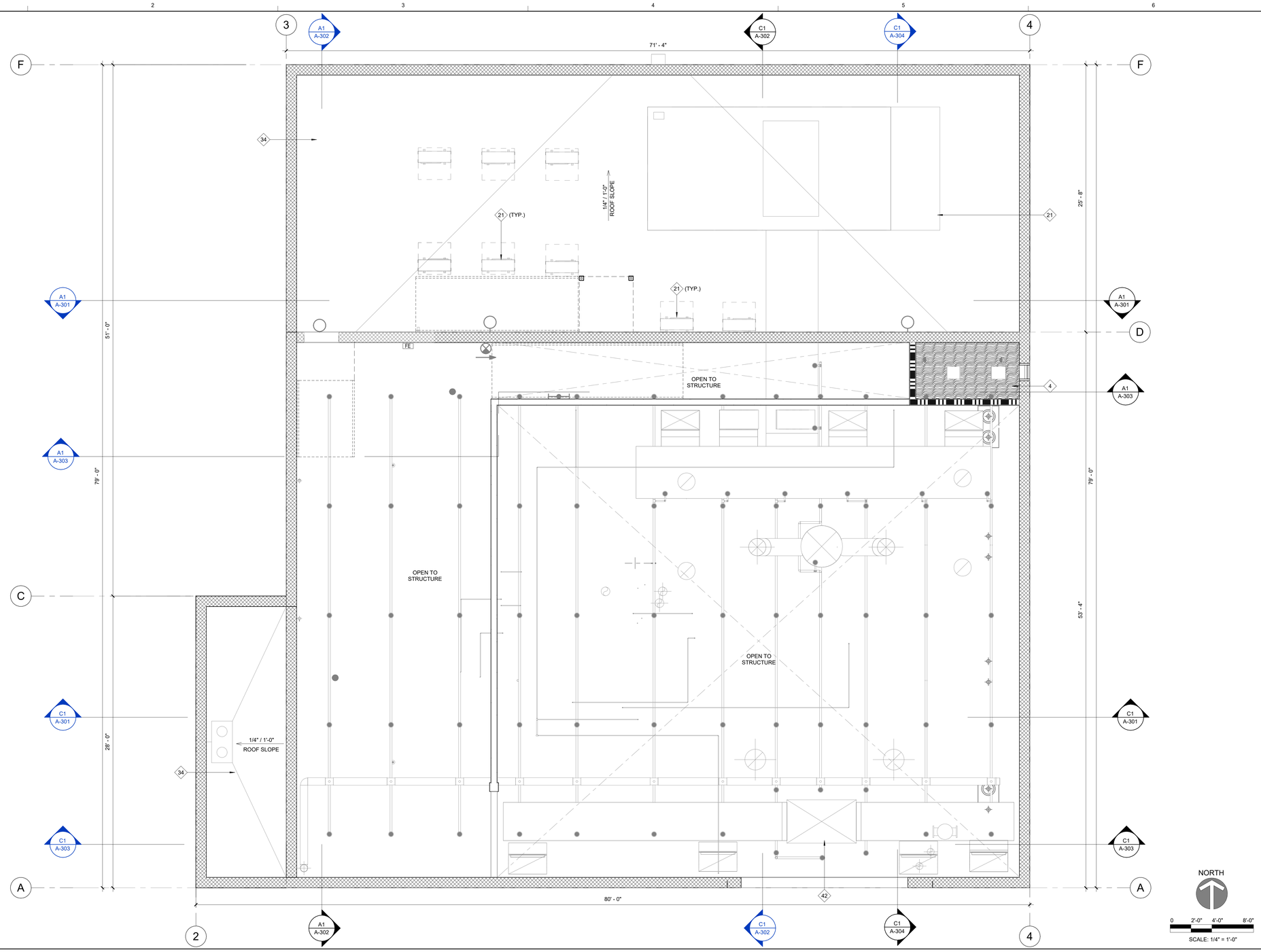

B1 LEVEL 2 - MEZZANINE REFLECTED CEILING PLAN

1 / A03 | 1/4" = 1'-0"

CEILING LEGEND

- ACCESS PANEL
- SD — SMOKE DETECTOR
- MECHANICAL FIXTURES - SEE MECHANICAL DRAWINGS
- OS — ELECTRICAL FIXTURES - SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS - SEE FIRE PROTECTION DRAWINGS
- 2'-0" x 2'-0" ACT CEILING - SEE E1/A-511
- GYPSUM BOARD CEILING - SEE A1/A-601
- 2HR RATED GYPSUM BOARD CEILING - SEE D2/A-601
- 1HR RATED GYPSUM BOARD CEILING - SEE D2/A-601
- OPEN TO STRUCTURE ABOVE

GENERAL NOTES

1. SEE DETAIL D2/A-511 FOR TYPICAL CEILING FRAMING DETAIL.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
3. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.
4. REFER TO ELECTRICAL FOR LIGHT FIXTURES TYPES, NOTES AND SCHEDULES.
5. REFER TO MECHANICAL FOR AIR DISTRIBUTION SYSTEM AND EXHAUST GRILLES.
6. SUSPENDED CEILING SYSTEM PER ESR-2631 (or ESR-3336) AND DESIGNED IN ACCORDANCE WITH ASCE 7-19 §13.5.6

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
4	PROVIDE FIRE-RATED HARD LID CEILING. SEE DETAIL D2/A-601
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
42	EQUIPMENT, DUCTS, AND PIPING. SEE MEP DRAWING. SHOWN FOR REFERENCE ONLY

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49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

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PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 2 - MEZZANINE REFLECTED CEILING PLAN

Sheet No.
A-112

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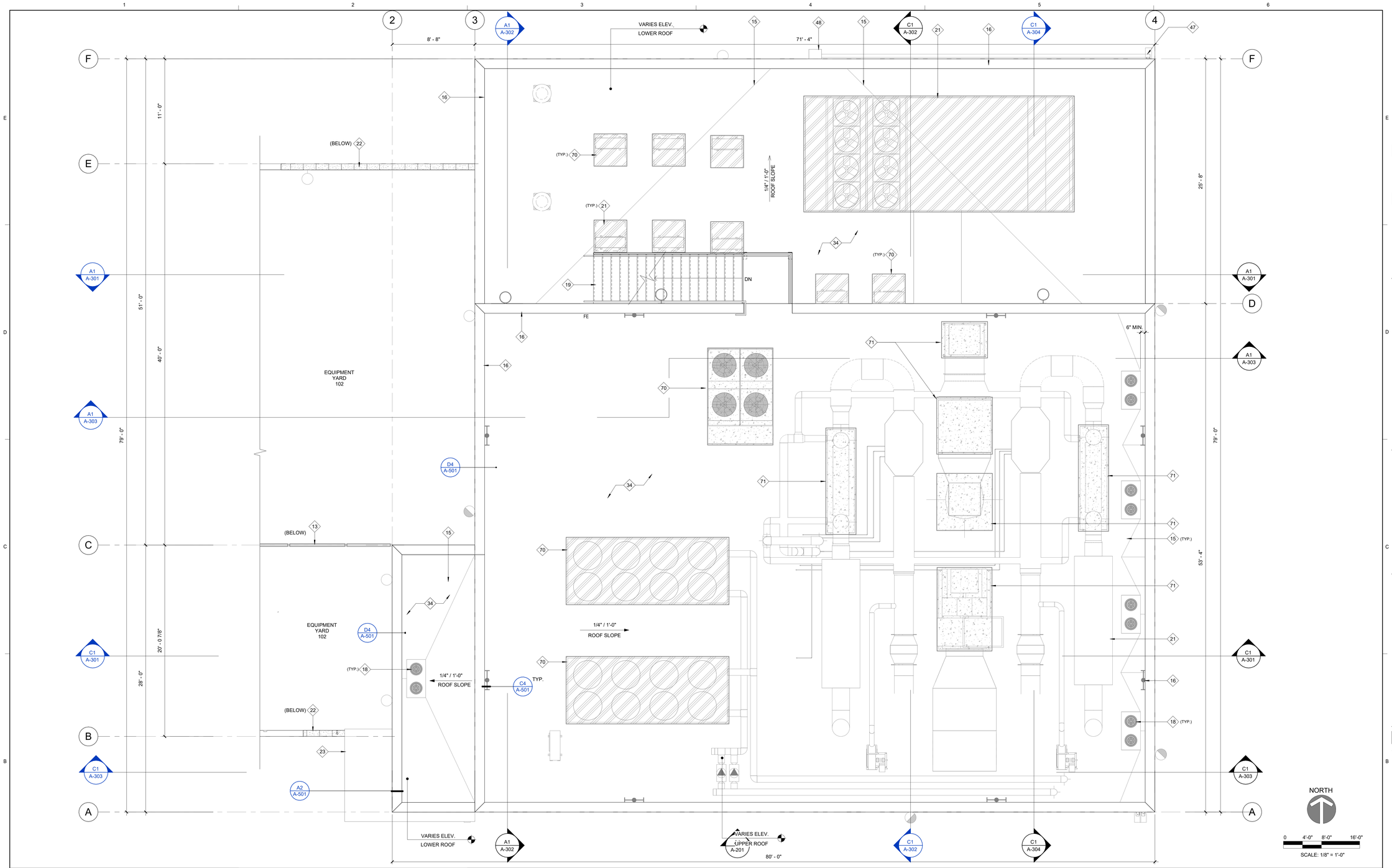


GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

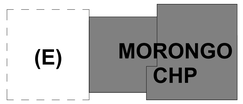
REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
13	CHAINLINK FENCE WITH GALVANIZED STEEL POST
15	BUILT-UP CRICKET. SLOPE MIN 1/4" PER FOOT TO ROOF DRAIN
16	EXTENDED PARAPET CAP FRAMED WITH LIGHT GAUGE STEEL
18	ROOF DRAIN WITH OVERFLOW - SEE DETAIL E2/A-501 AND PLUMBING DRAWINGS
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
23	ENTRY CANOPY. SEE A3/A-501
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
47	DOWNSPOUT AND SPLASH BLOCK
48	ROOF SCUPPER AND OVERFLOW - SEE DETAIL D1/A-501 & B2/A-501
70	PROVIDE ROOF CURB FOR ROOF-MOUNTED EQUIPMENT (SIZE PER MEP SCHEDULE) - SEE DETAIL E1/A-501
71	PROVIDE CONCRETE PAD TO SUPPORT, LEVEL, AND ANCHOR ROOF EQUIPMENT (SIZE PER MEP SCHEDULE) - SEE STRUCTURAL

KEY PLAN



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PHASE 2 - IFC 2026.06.10

Sheet Title
BUILDING ROOF PLAN

Sheet No.
A-120

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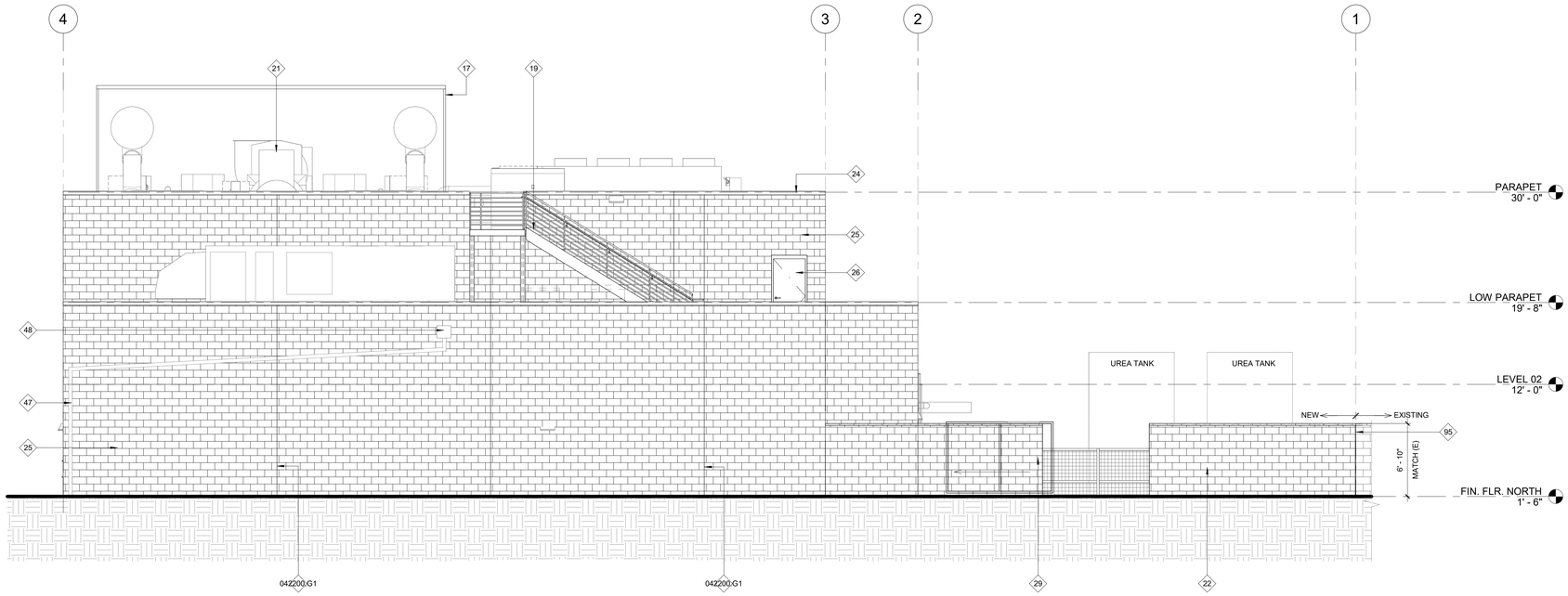
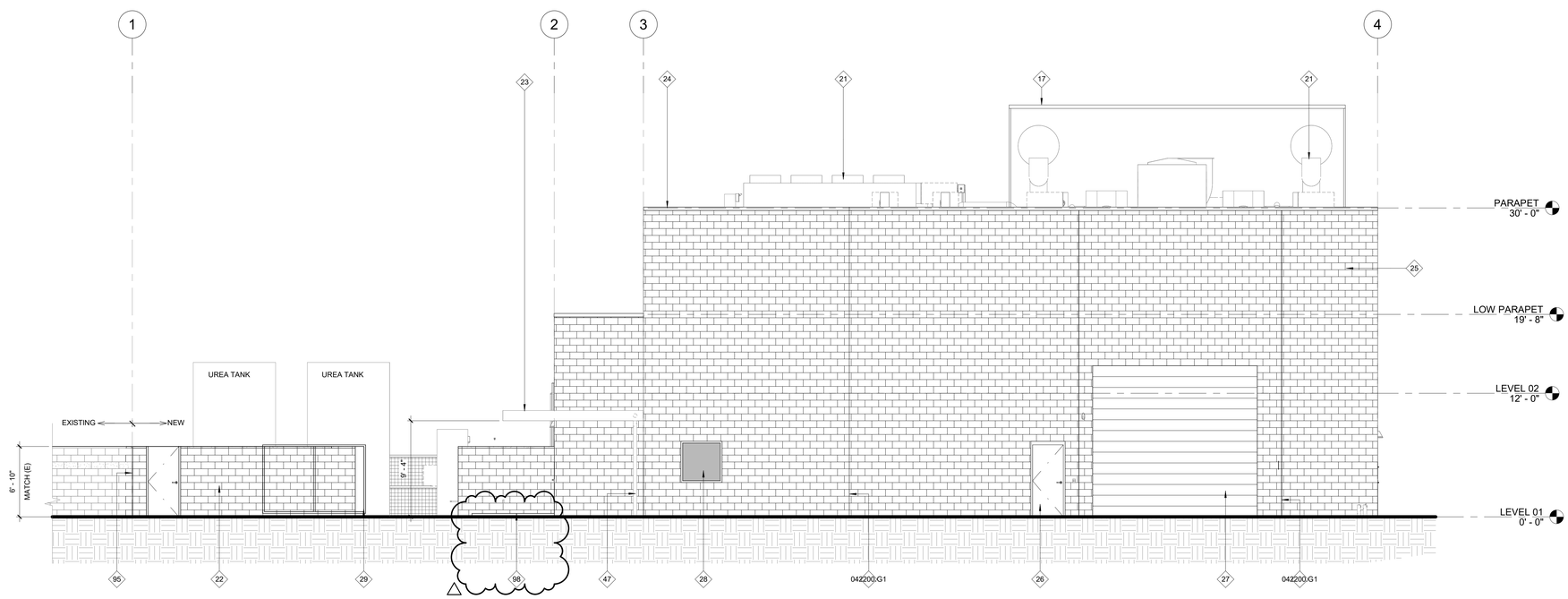


C1 NORTH ELEVATION

B1 / A-101 | 3/16" = 1'-0"



A1 SOUTH ELEVATION

1 / A02R | 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
042200.G1	CMU CONTROL JOINT

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
17	GC TO PROVIDE SHIP LADDERS AND CATWALKS AS REQUIRED FOR ACCESS TO ELEVATED EQUIPMENT ON ROOF (UNDER SEPARATE SUBMITTAL)
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
23	ENTRY CANOPY. SEE A3/A-501
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
27	EXTERIOR ROLL-UP DOOR PER SCHEDULE. SEE A-611
28	EXTERIOR WINDOW PER SCHEDULE. SEE A-611
29	GALVANIZED STEEL SLIDING GATE, SEE DETAIL D4/AS502
47	DOWNSPOUT AND SPLASH BLOCK
48	ROOF SCUPPER AND OVERFLOW - SEE DETAIL D1/A-501 & B2/A-501
95	1.5" EXPANSION JOINT. SEE STRUCTURAL
98	PROVIDE 4" RAISED CURB/EDGE PROTECTION AT ACCESSIBLE ENTRY LANDING

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

0 4'-0" 8'-0" 16'-0"
SCALE: 3/16" = 1'-0"

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LICENSED ARCHITECT
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05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

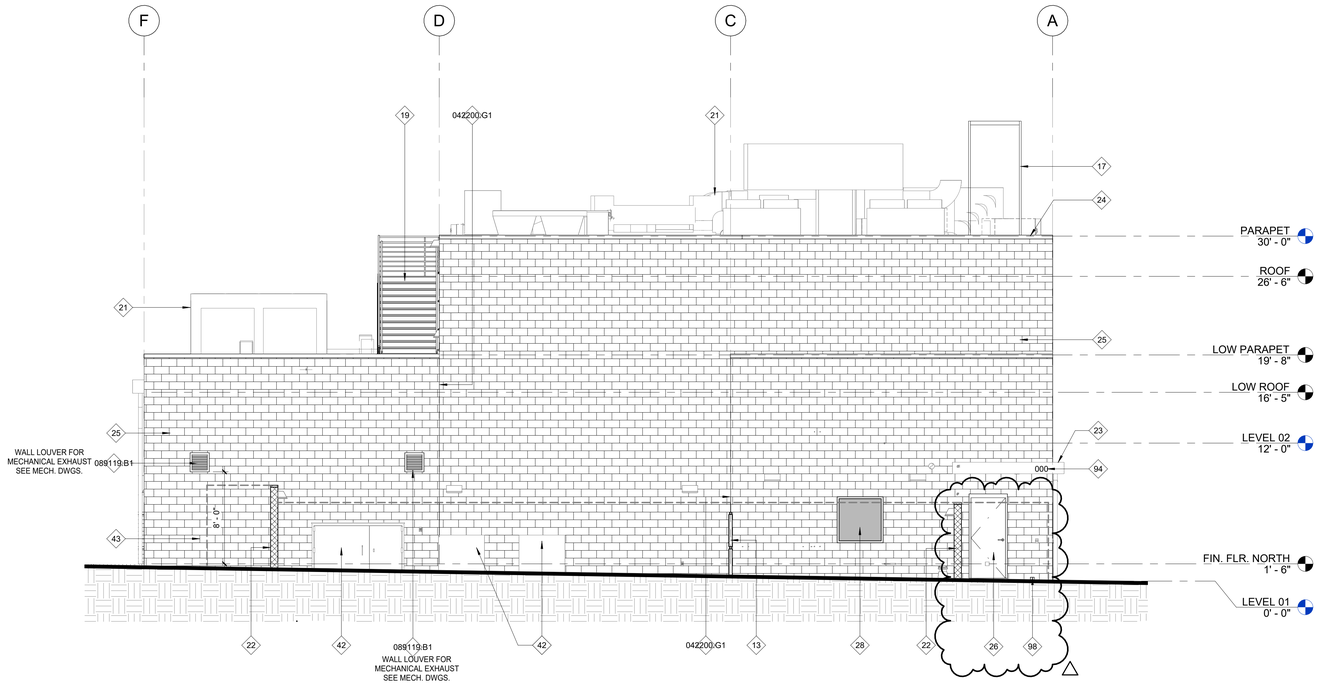
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

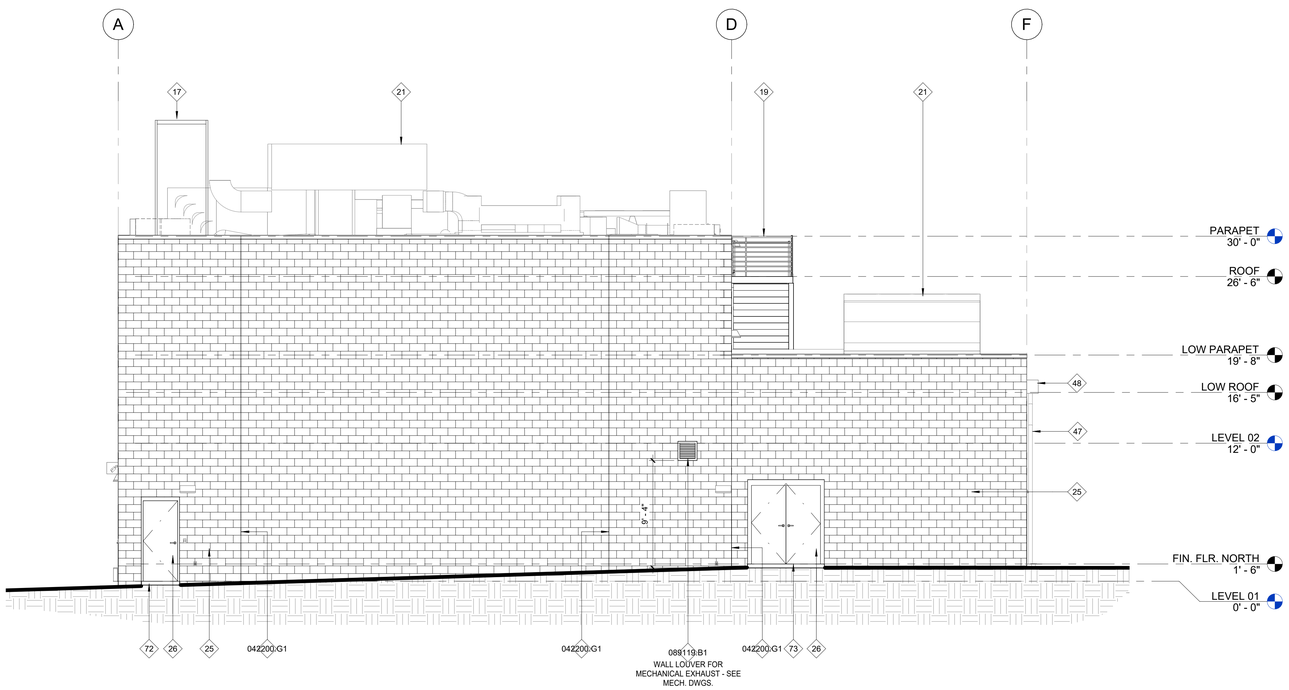
Sheet Title
BUILDING ELEVATIONS - NORTH & SOUTH

Sheet No.
A-201



C1 WEST ELEVATION

B1 / A-101 | 3/16" = 1'-0"



A1 EAST ELEVATION

B1 / A-101 | 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
042200.G1	CMU CONTROL JOINT
089119.B1	LOUVER SCREEN

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
13	CHAINLINK FENCE WITH GALVANIZED STEEL POST
17	GC TO PROVIDE SHIP LADDERS AND CATWALKS AS REQUIRED FOR ACCESS TO ELEVATED EQUIPMENT ON ROOF (UNDER SEPARATE SUBMITTAL)
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
23	ENTRY CANOPY. SEE A3/A-501
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
28	EXTERIOR WINDOW PER SCHEDULE. SEE A-611
42	EQUIPMENT, DUCTS, AND PIPING. SEE MEP DRAWING. SHOWN FOR REFERENCE ONLY
43	EXISTING WALL
47	DOWNSPOUT AND SPLASH BLOCK
48	ROOF SCUPPER AND OVERFLOW - SEE DETAIL D1/A-501 & B2/A-501
72	PROVIDE CONCRETE STOOP - 4'-0" DEEP x 5'-0" WIDE
73	PROVIDE CONCRETE STOOP - 4'-0" DEEP x 7'-0" WIDE
94	ILUMINATED BUILDING ADDRESS LETTERS
98	PROVIDE 4" RAISED CURB/EDGE PROTECTION AT ACCESSIBLE ENTRY LANDING

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

0 4'-0" 8'-0" 16'-0"

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

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

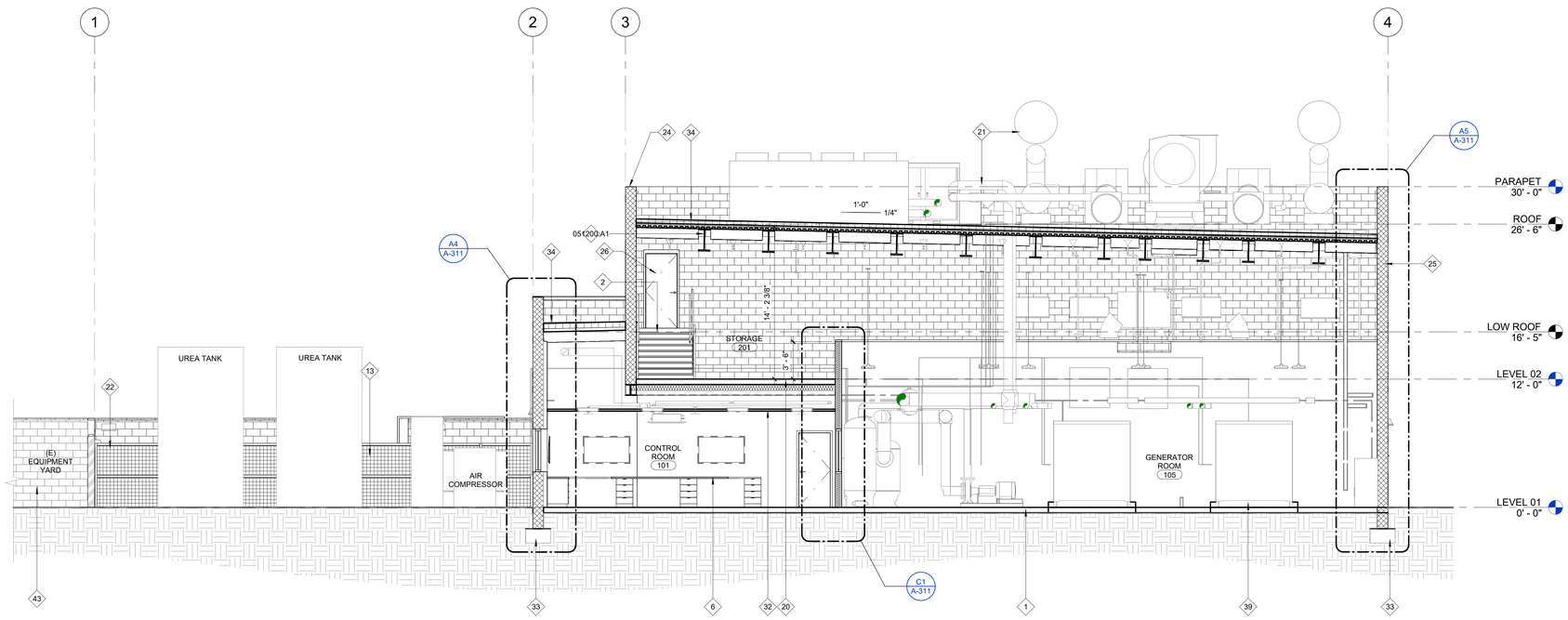
REV NO.	DATE ISSUED	REASON
B	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
BUILDING ELEVATIONS - WEST & EAST

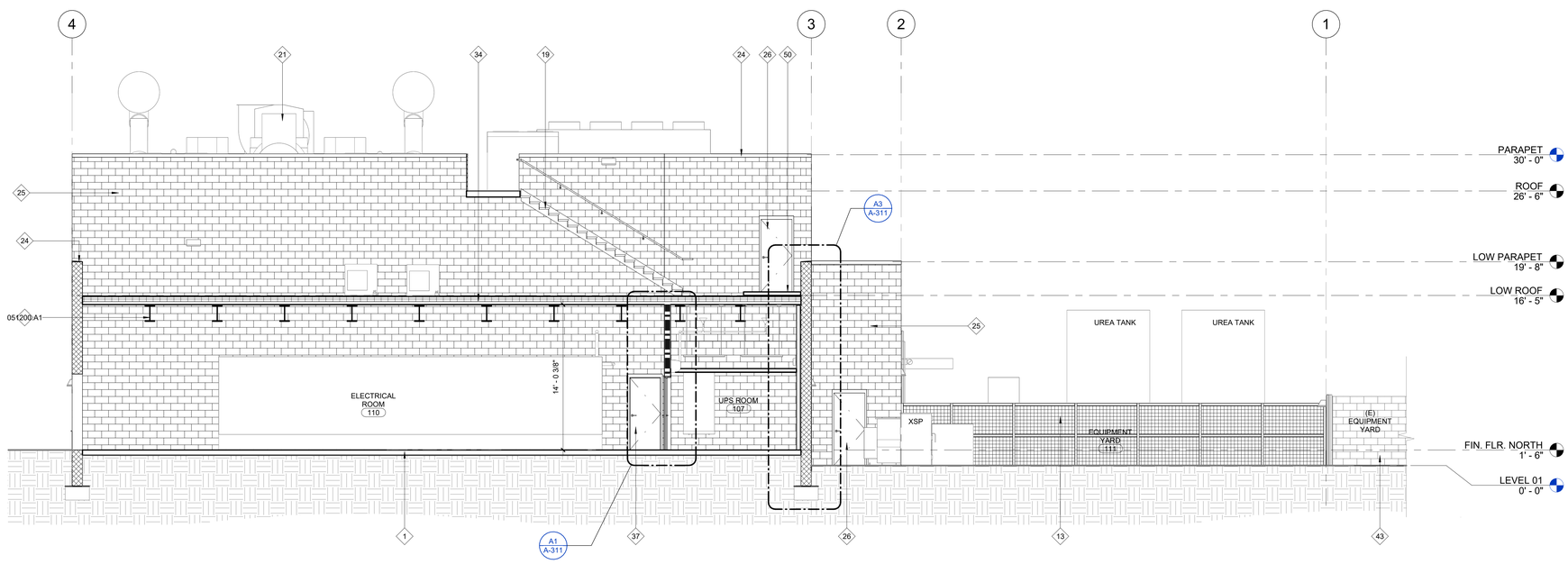
Sheet No.
A-202

8/31/2026 2:28:35 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



C1 LONGITUDINAL BUILDING SECTION 1

B1 / A-101 | 3/16" = 1'-0"



A1 LONGITUDINAL BUILDING SECTION 2

B1 / A-101 | 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
6	PROPOSED LOCATIONS OF WORKSTATIONS. SEE COUNTERTOP DETAIL C5/A-413; PROVIDE POWER AND DATA ACCORDINGLY, INCLUDING REQUIRED GROMMETS, SEE C4/A-413
13	CHAINLINK FENCE WITH GALVANIZED STEEL POST
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
32	CEILING PER PLAN
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
37	DOOR PER SCHEDULE. SEE A-611
39	EQUIPMENT CONCRETE PADS. SEE STRUCTURAL DRAWINGS
43	EXISTING WALL
50	STEP DOWN AT DOOR TO LOWER ROOF

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

0 4'-0" 8'-0" 16'-0"

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

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
BUILDING SECTIONS

Sheet No.
A-301

8/31/2026 2:28:41 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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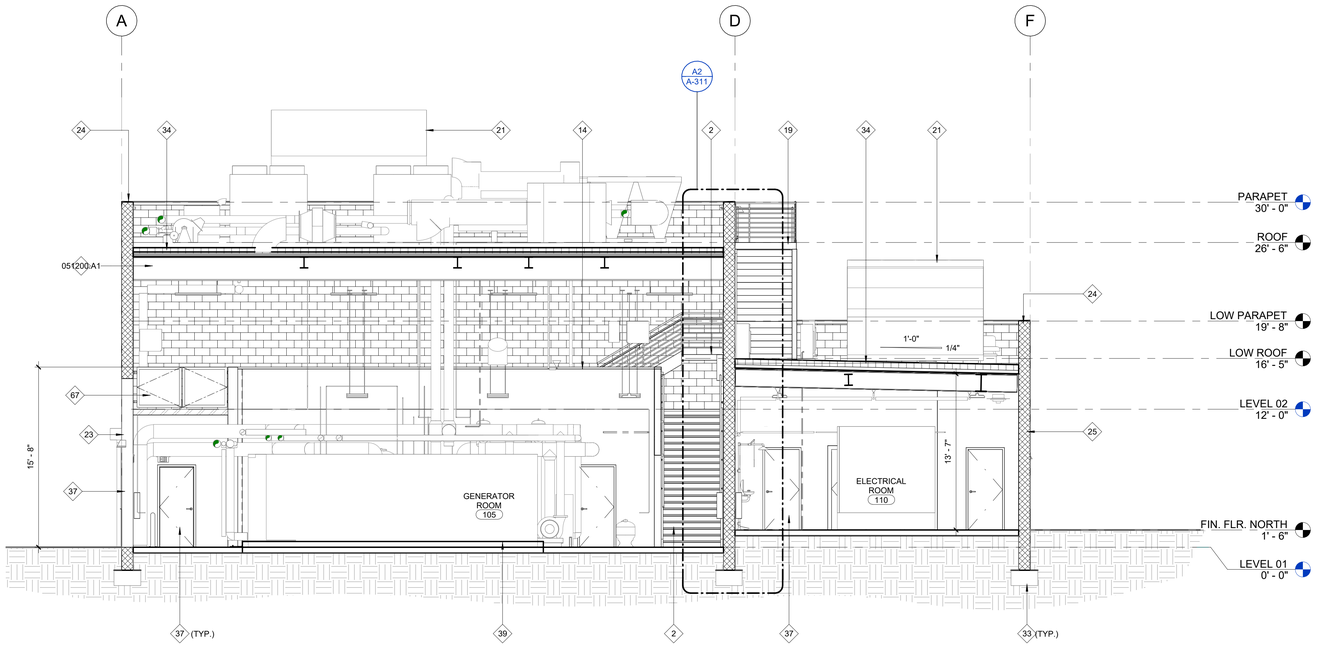
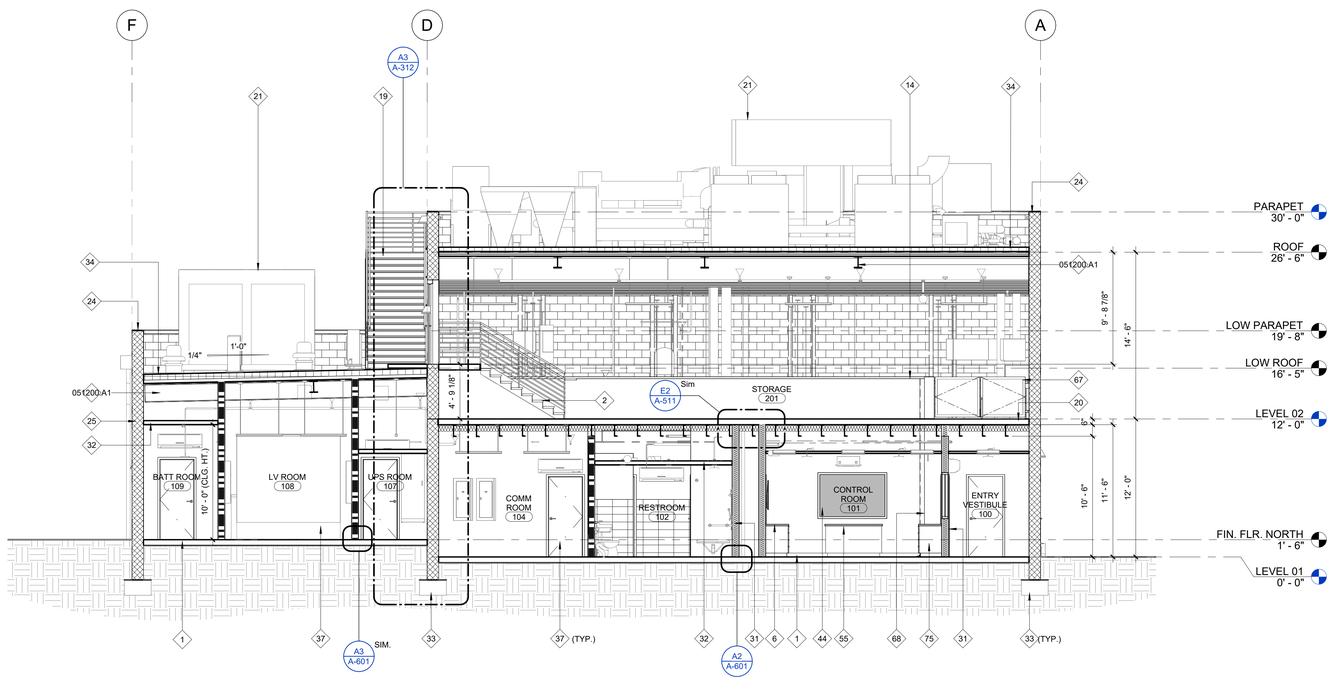
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



C1 TRANSVERSAL BUILDING SECTION 1

B1 / A-101 3/16" = 1'-0"



A1 TRANSVERSAL BUILDING SECTION 2

B1 / A-101 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
6	PROPOSED LOCATIONS OF WORKSTATIONS, SEE COUNTERTOP DETAIL C5/A-413; PROVIDE POWER AND DATA ACCORDINGLY, INCLUDING REQUIRED GROMMETS, SEE C4/A-413
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
23	ENTRY CANOPY. SEE A3/A-501
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
32	CEILING PER PLAN
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
37	DOOR PER SCHEDULE. SEE A-611
39	EQUIPMENT CONCRETE PADS. SEE STRUCTURAL DRAWINGS
44	INTERIOR WINDOW PER SCEHDULE. SEE A-611
55	CONTROL STATION - FFE BY OWNER. SEE ELECTRICAL FOR FLOOR BOX INFORMATION
67	MEZZANINE GATE PER SCHEDULE - SEE DETAIL D4/A-511
68	HSS POST PER STRUCTURAL, EMBEDDED IN METAL STUD WALL TO MEZZANINE GATE SUPPORT - SEE STRUCTURAL
75	BASE CABINET WITH DRAWERS. SEE A1/A-413

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

0 4'-0" 8'-0" 16'-0"
SCALE: 3/16" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
BUILDING SECTIONS

Sheet No.
A-302

8/31/2026 2:28:49 PM
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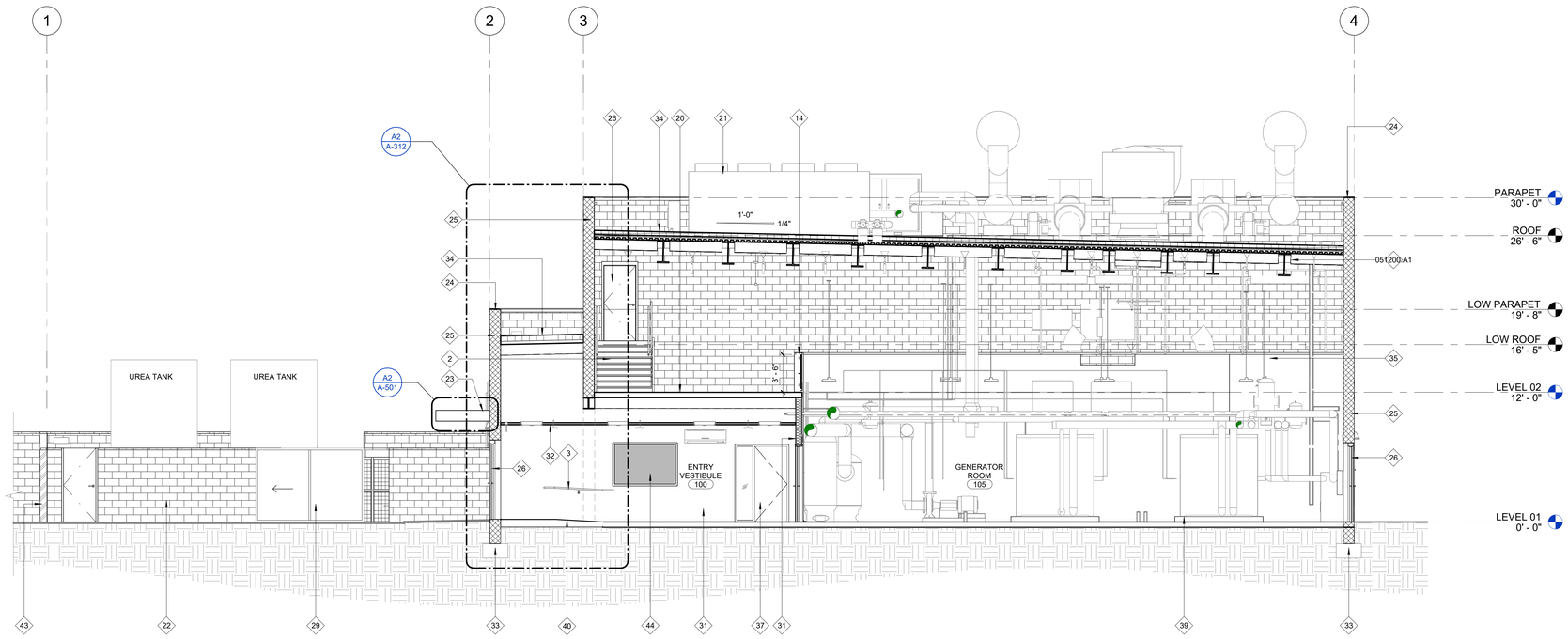
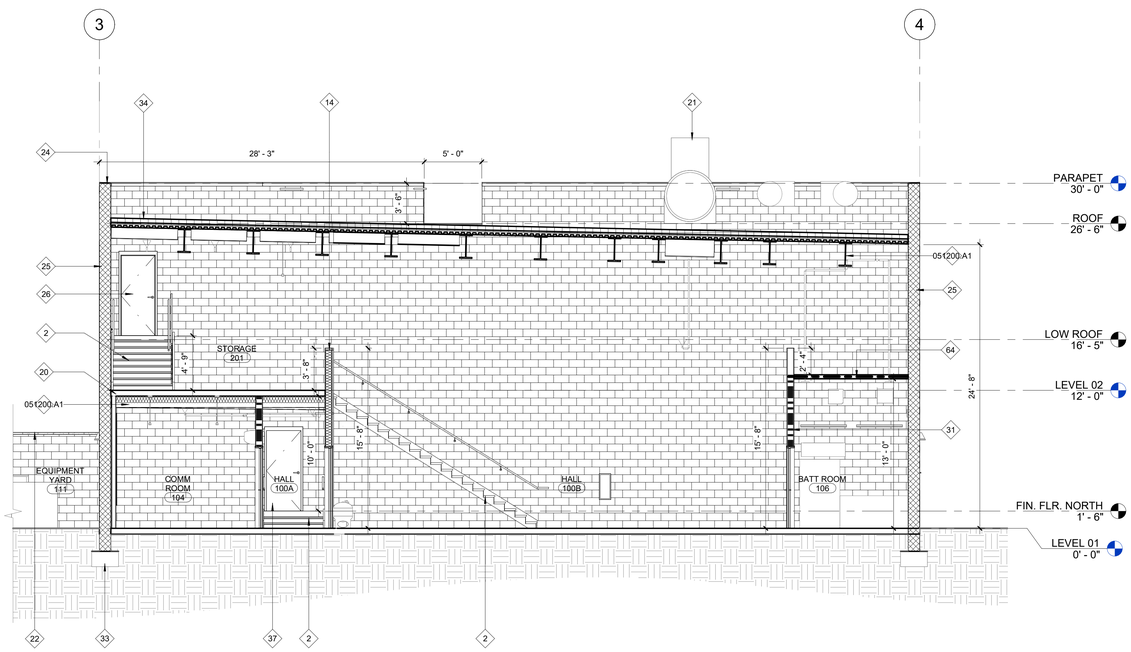


C1 LONGITUDINAL BUILDING SECTION 3

1 / A03 3/16" = 1'-0"



A1 TRANSVERSAL BUILDING SECTION 3

B1 / A-101 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
3	TUBE STEEL GUARDRAIL AND HANDRAILS, TYP.
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
23	ENTRY CANOPY. SEE A3/A-501
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
29	GALVANIZED STEEL SLIDING GATE, SEE DETAIL D4/AS502
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
32	CEILING PER PLAN
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
35	INTERIOR MEP DUCTS, PIPES AND EQUIPMENT PER MEP DRAWINGS (SHOWN FOR REFERENCE)
37	DOOR PER SCHEDULE. SEE A-611
39	EQUIPMENT CONCRETE PADS. SEE STRUCTURAL DRAWINGS
40	INTERIOR ACCESSIBLE RAMP
43	EXISTING WALL
44	INTERIOR WINDOW PER SCEHDULE. SEE A-611
64	1-HR FIRE-RATED GYP. BD. HARD LID CEILING - SEE DETAIL B3/A-501

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

2. EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INFORMATION, NOTES, AND DETAILS.

0 4'-0" 8'-0" 16'-0"
SCALE: 3/16" = 1'-0"

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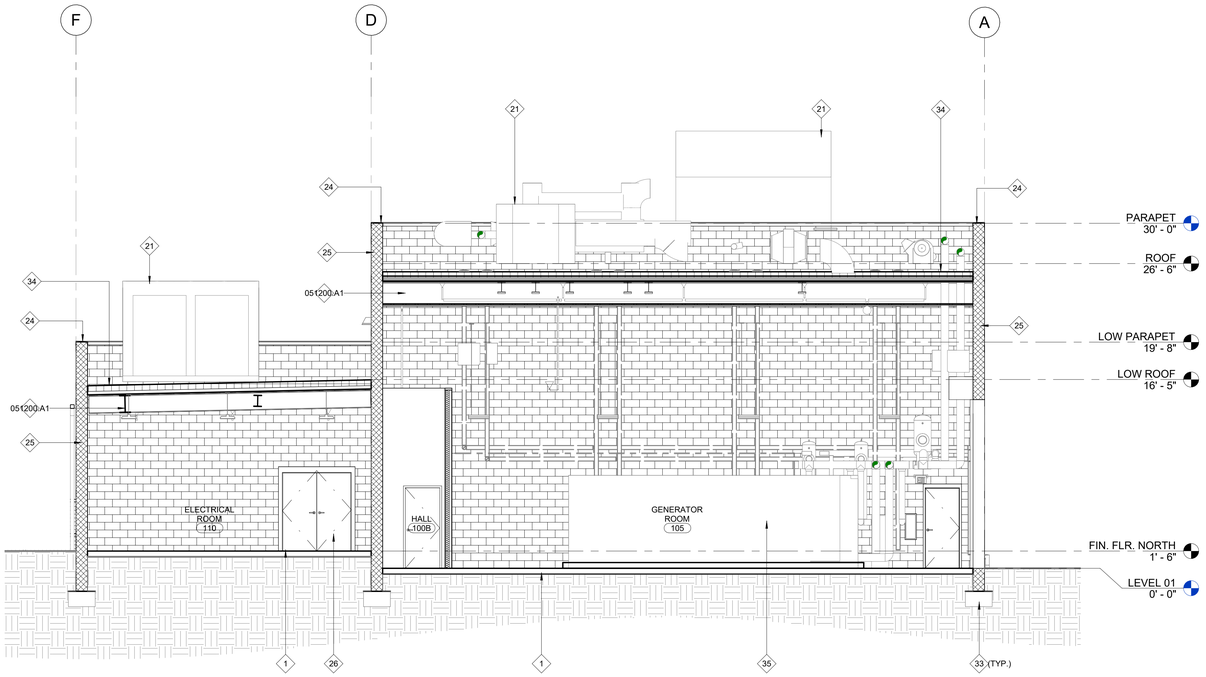
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

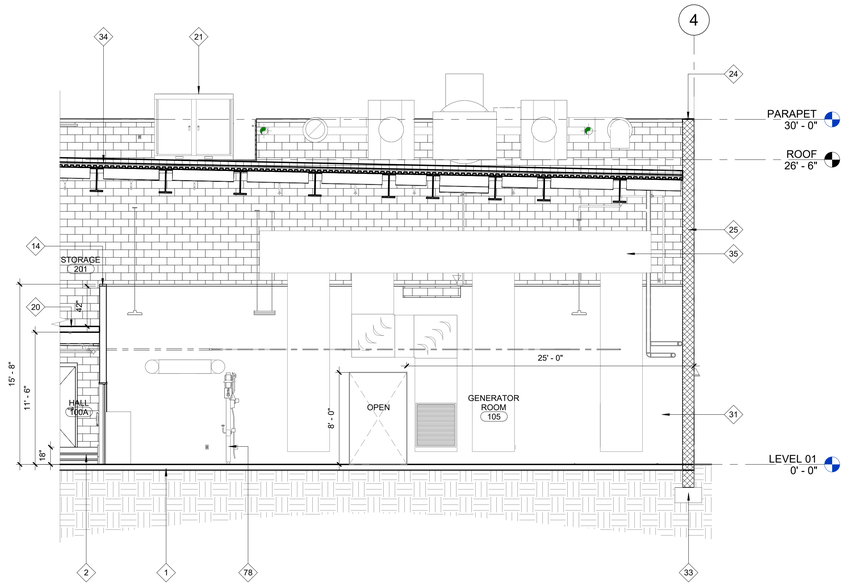
Sheet Title
BUILDING SECTIONS

Sheet No.
A-303



C1 TRANSVERSAL BUILDING SECTION 4

B1 / A-101 | 3/16" = 1'-0"



A3 INTERIOR ELEVATION/PARTIAL SECTION

1 / A01R | 3/16" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
35	INTERIOR MEP DUCTS, PIPES AND EQUIPMENT PER MEP DRAWINGS (SHOWN FOR REFERENCE)
78	EYE WASH STATION. SEE PLUMBING

0 4'-0" 8'-0" 16'-0"

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

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
BUILDING SECTIONS

Sheet No.
A-304

8/31/2026 2:28:51 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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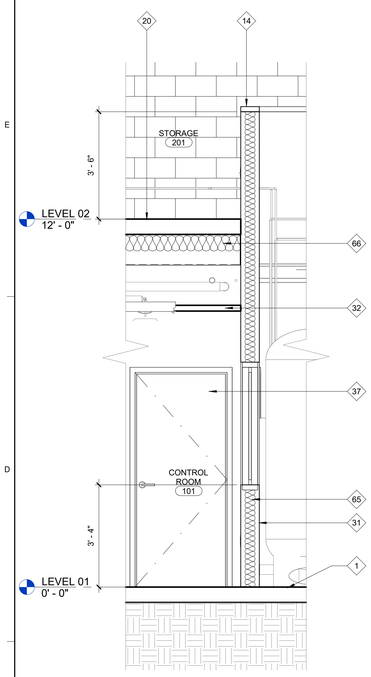
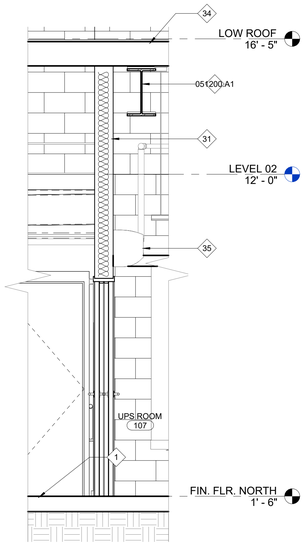


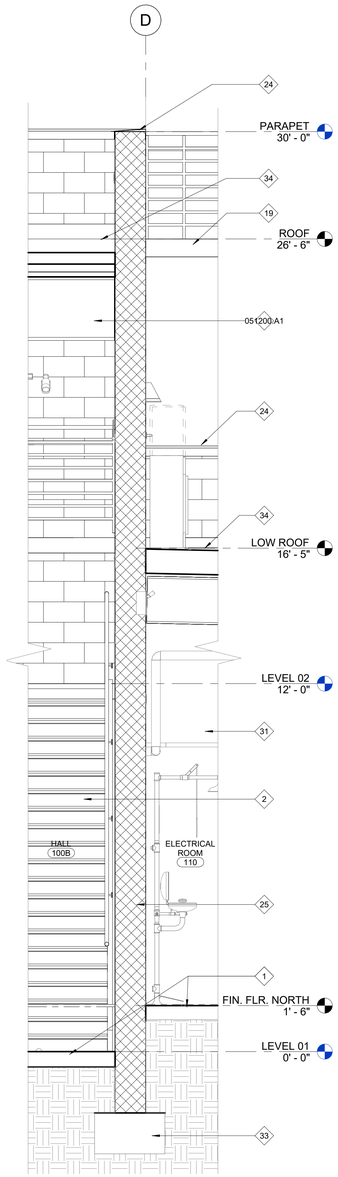
C1 WALL SECTION

C1 / A-301 | 1/2" = 1'-0"



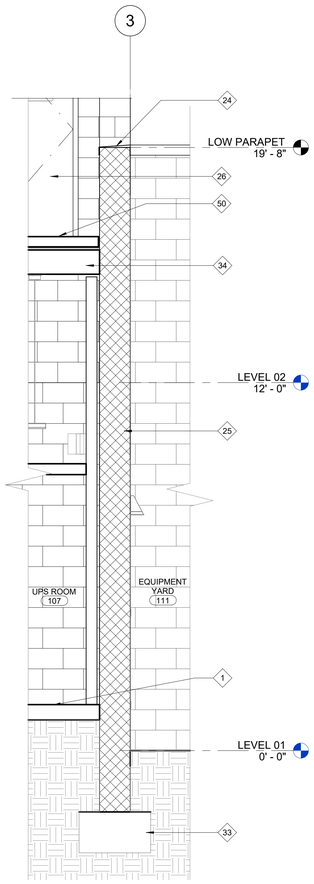
A1 WALL SECTION

A1 / A-301 | 1/2" = 1'-0"



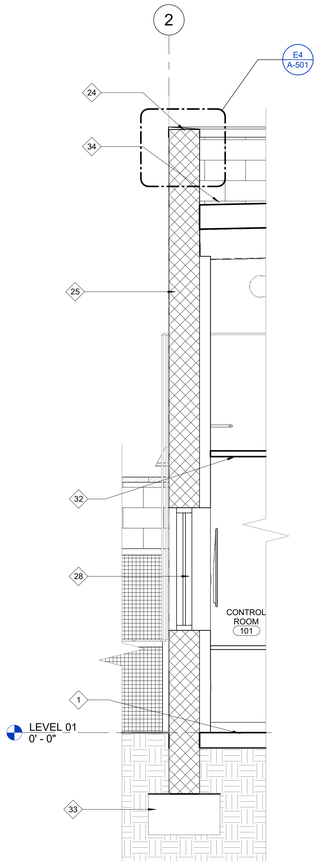
A2 WALL SECTION

C1 / A-302 | 1/2" = 1'-0"



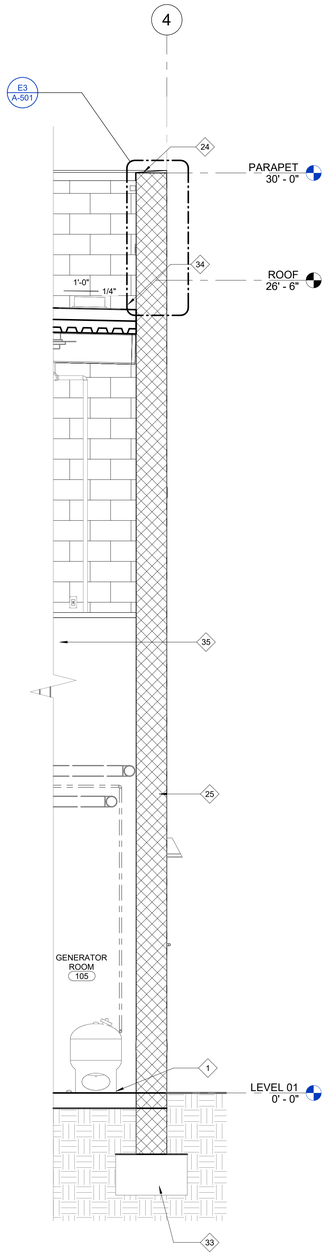
A3 WALL SECTION

A1 / A-301 | 1/2" = 1'-0"



A4 WALL SECTION

C1 / A-301 | 1/2" = 1'-0"



A5 WALL SECTION

C1 / A-301 | 1/2" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
28	EXTERIOR WINDOW PER SCHEDULE. SEE A-611
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
32	CEILING PER PLAN
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
35	INTERIOR MEP DUCTS, PIPES AND EQUIPMENT PER MEP DRAWINGS (SHOWN FOR REFERENCE)
37	DOOR PER SCHEDULE. SEE A-611
50	STEP DOWN AT DOOR TO LOWER ROOF
65	R-11 BATT INSULATION
66	R-19 BATT INSULATION

0 1'-0" 2'-0" 4'-0"
SCALE: 1/2" = 1'-0"

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

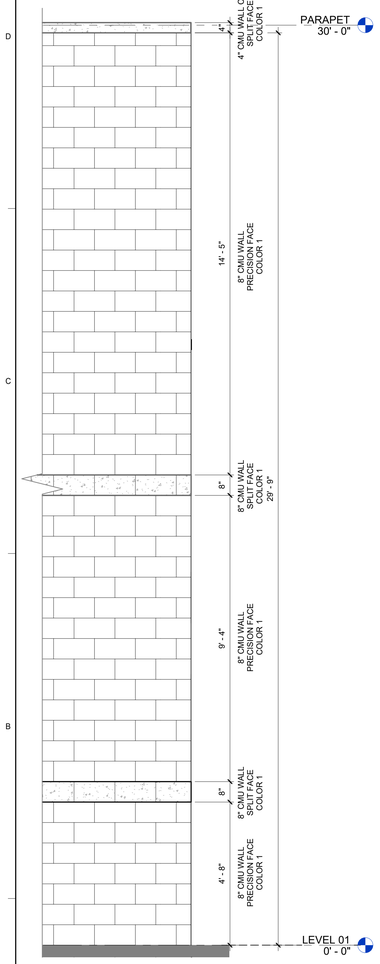
PHASE 2 - IFC 2026.06.10

Sheet Title
WALL SECTIONS

Sheet No.
A-311

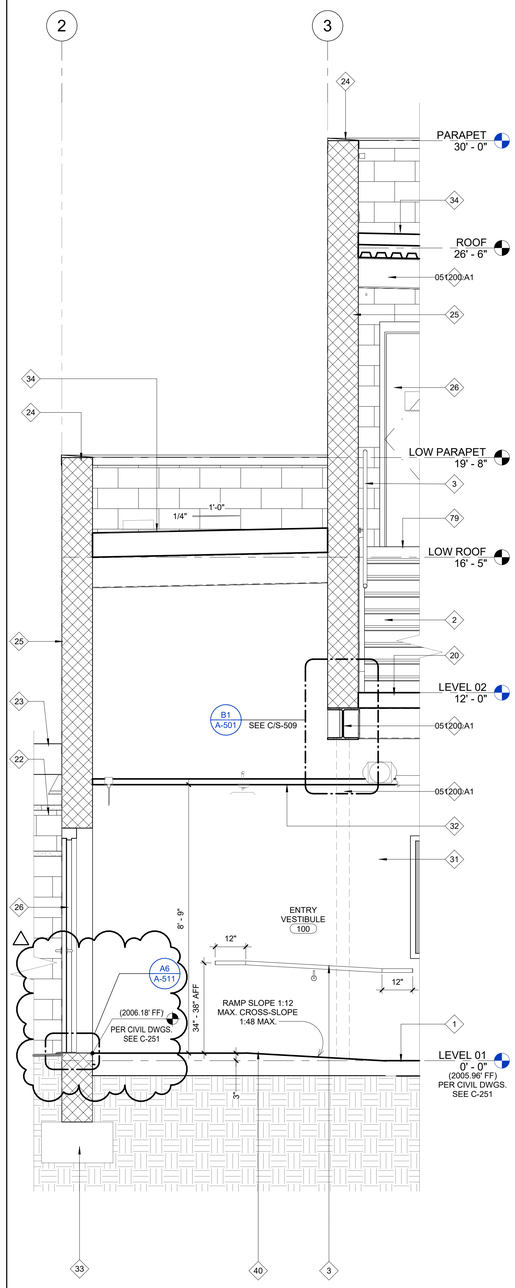
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

8/31/2026 2:28:58 PM

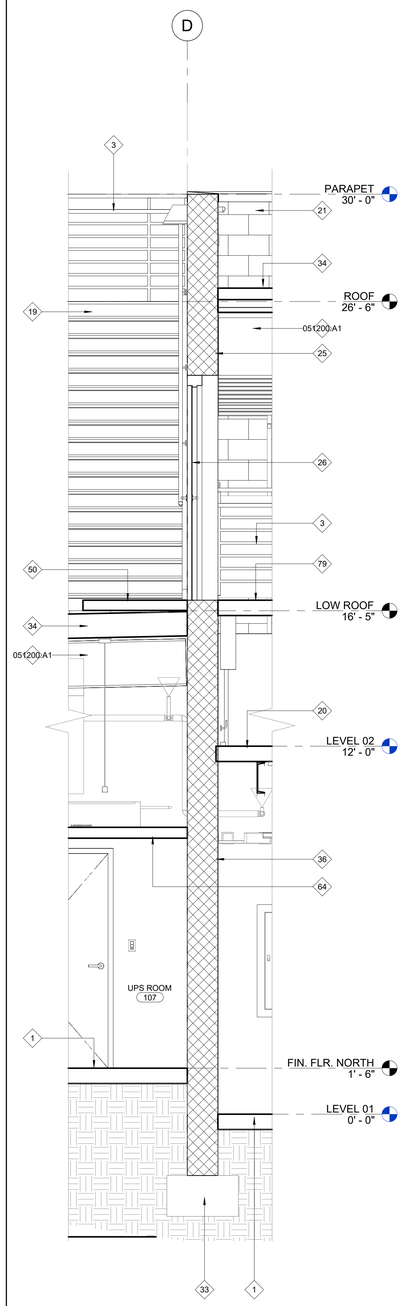


NOTE: CMU TO MATCH THE EXISTING EQUIPMENT YARD CMU COLORS

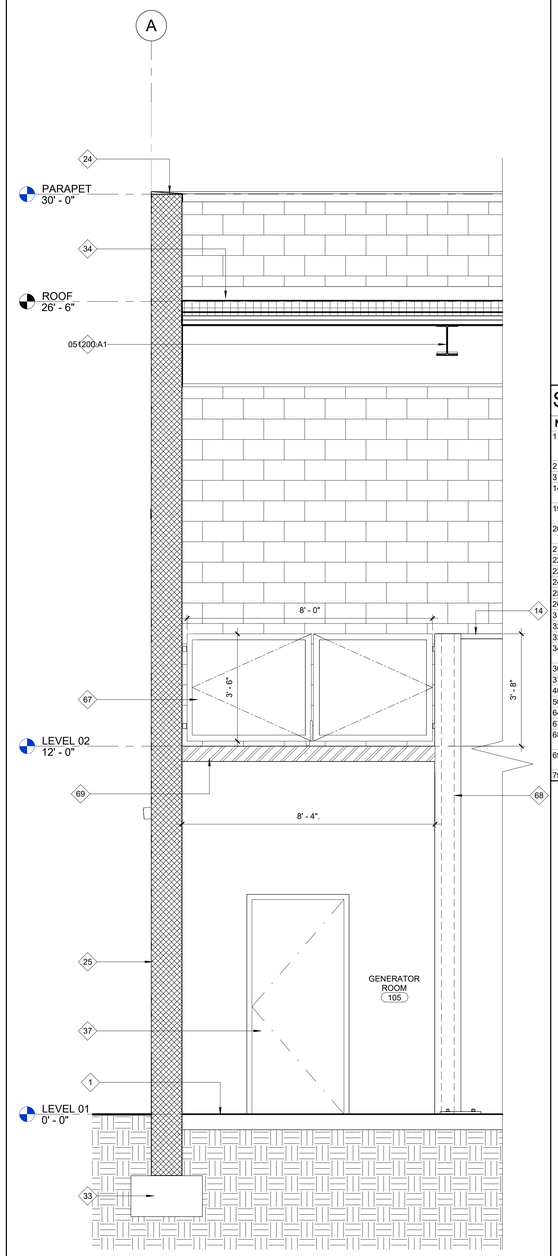
A1	TYP. CMU EXTERIOR PARTIAL ELEVATION
	1/2" = 1'-0"



A2	WALL SECTION
C1 / A-303	1/2" = 1'-0"



A3	WALL SECTION
A1 / A-302	1/2" = 1'-0"



A4	WALL SECTION
1 / A01R	1/2" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
2	STAIRCASE PER STRUCTURAL DRAWINGS, SEE A-502
3	TUBE STEEL GUARDRAIL AND HANDRAILS, TYP.
14	42" HIGH CONTINUOUS METAL STUD GUARDRAIL ABOVE MEZZANINE FLOOR WITH CAP, SEE STRUCTURAL FOR ATTACHMENT DETAILS
19	EXTERIOR METAL STAIR FROM LOWER ROOF TO UPPER ROOF. SEE STRUCTURAL
20	MEZZANINE FLOOR ASSEMBLY, REFER TO STRUCTURAL FOR FRAMING, SLAB AND CONNECTION DETAILS
21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
22	EQUIPMENT YARD CMU WALL WITH CAP
23	ENTRY CANOPY. SEE A3/A-501
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
32	CEILING PER PLAN
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
36	CMU WALL PER PLAN
37	DOOR PER SCHEDULE. SEE A-611
40	INTERIOR ACCESSIBLE RAMP
50	STEP DOWN AT DOOR TO LOWER ROOF
64	1-HR FIRE-RATED GYP. BD. HARD LID CEILING - SEE DETAIL B3/A-501
67	MEZZANINE GATE PER SCHEDULE - SEE DETAIL D4/A-511
68	HSS POST PER STRUCTURAL, EMBEDDED IN METAL STUD WALL TO MEZZANINE GATE SUPPORT - SEE STRUCTURAL
69	L4x4x3/8" STEEL EDGE ANGLE AT SLAB EDGE FOR IMPACT PROTECTION; ANCHOR PER STRUCTURAL
79	STAIR LANDING PER STRUCTURAL DRAWINGS, SEE A-502

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STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

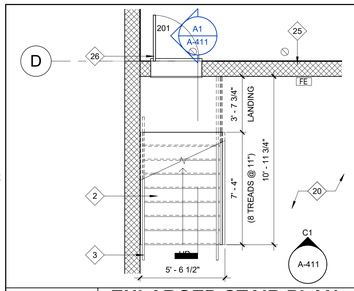
REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
WALL SECTIONS AND TYP. DETAILS

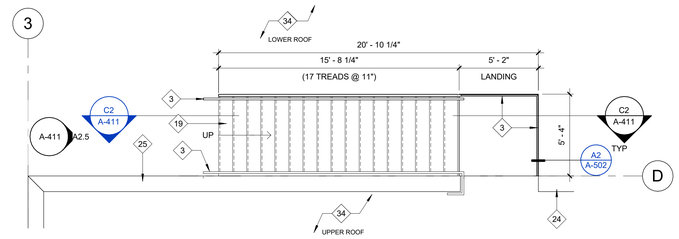
0 1'-0" 2'-0" 4'-0"
SCALE: 1/2" = 1'-0"

Sheet No.
A-312



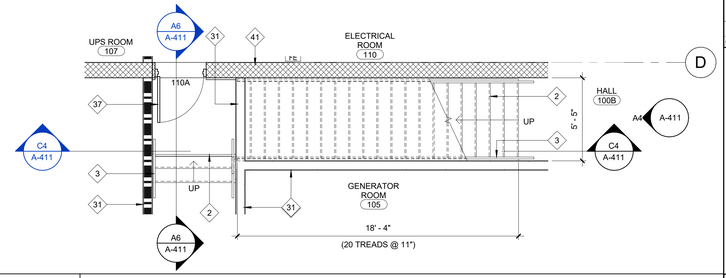
E1 ENLARGED STAIR PLAN - INTERIOR (MEZZANINE)

B1 / A-101.2 | 1/4" = 1'-0"



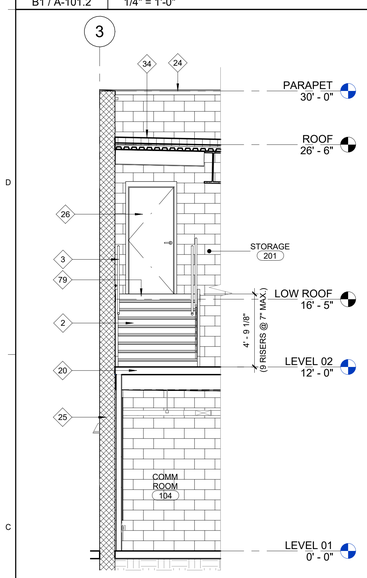
E2 ENLARGED STAIR PLAN - EXTERIOR (LOWER ROOF)

B1 / A-101.2 | 1/4" = 1'-0"



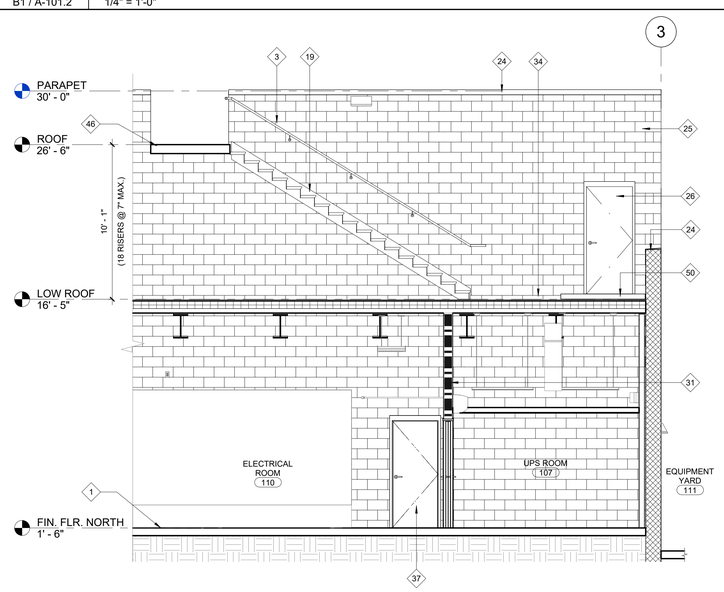
E4 ENLARGED STAIR PLAN - INTERIOR (LEVEL 01)

B1 / A-101.1 | 1/4" = 1'-0"



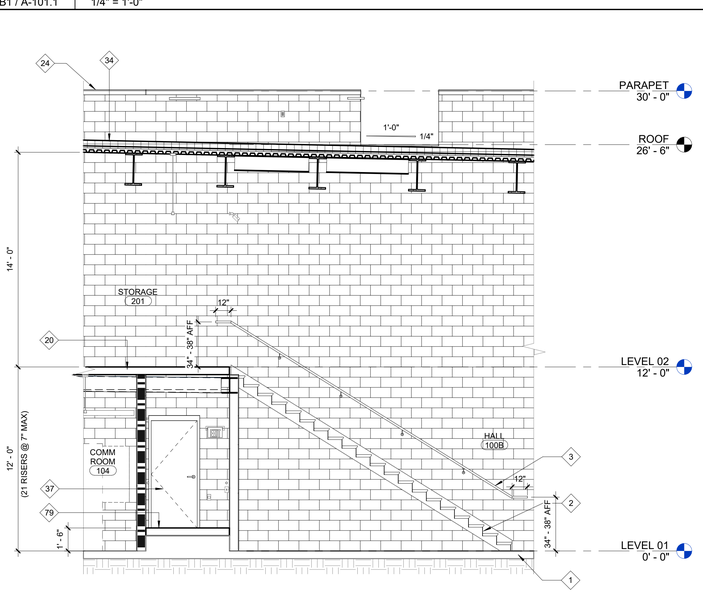
C1 STAIR ELEVATION - (MEZZANINE)

1 / A01R | 1/4" = 1'-0"



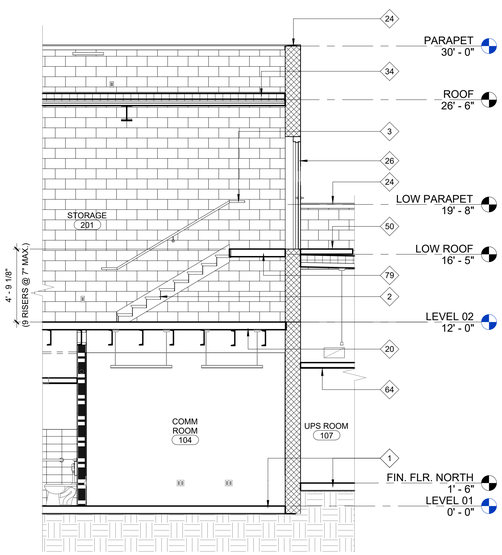
C2 STAIR SECTION - EXTERIOR (LOWER ROOF)

E2 / A-411 | 1/4" = 1'-0"



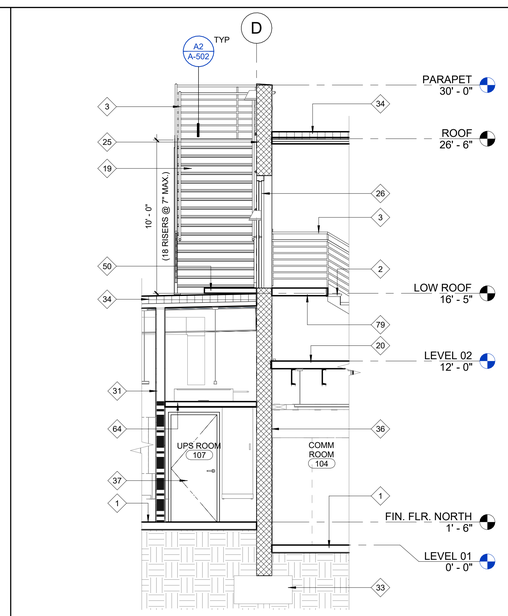
C4 STAIR SECTION - INTERIOR (LEVEL 01)

E4 / A-411 | 1/4" = 1'-0"



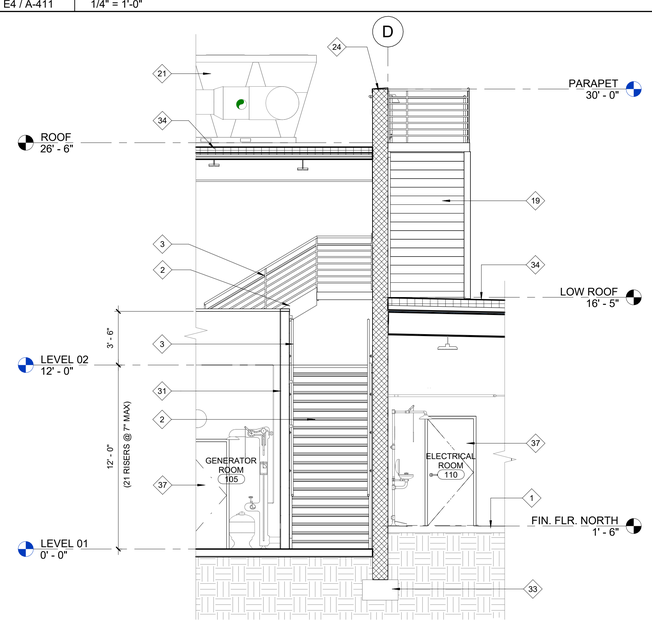
A1 STAIR SECTION (MEZZANINE)

E1 / A-411 | 1/4" = 1'-0"



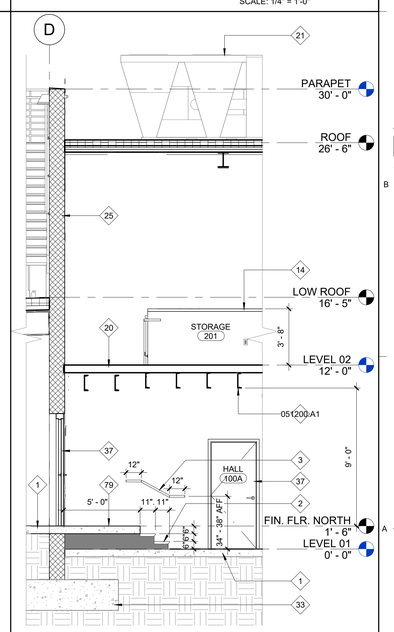
A2.5 STAIR ELEVATION - EXTERIOR (LOWER ROOF)

1 / A01R | 1/4" = 1'-0"



A4 STAIR ELEVATION - INTERIOR (LEVEL 01)

E4 / A-411 | 1/4" = 1'-0"



A6 STAIR SECTION INTERIOR (LEVEL 01)

E4 / A-411 | 1/4" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
1	CONCRETE SLAB, PER STRUCTURAL. SMOOTH FINISH; APPLY 3 COATS MANUFACTURER-APPROVED SEALER FOR EXPOSED FLOORS WITHOUT FINISH
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21	ROOF-MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL
24	PREFINISHED PARAPET COPING
25	EXTERIOR CMU WALL PER PLAN
26	EXTERIOR DOOR PER SCHEDULE. SEE A-611
31	INTERIOR METAL STUD WALL PER SCHEDULE, SEE A-601
33	CONCRETE FOOTING PER STRUCTURAL
34	TPO ROOFING SYSTEM OVER VAPOR BARRIER AND RIGID INSULATION, MIN. R-30, OVER METAL ROOF DECK
36	CMU WALL PER PLAN
37	DOOR PER SCHEDULE. SEE A-611
41	WALL PER PLAN
46	EXTERIOR STAIR LANDING. SEE STRUCTURAL
50	STEP DOWN AT DOOR TO LOWER ROOF
64	1-HR FIRE-RATED GYP. BD. HARD LID CEILING - SEE DETAIL B3/A-501
79	STAIR LANDING PER STRUCTURAL DRAWINGS, SEE A-502

GENERAL NOTES

1. PROVIDE ALL GUARDRAILS AT 42" HT. MAX.
2. PROVIDE ALL HANDRAILS AT 34" HT. MAX.
3. PROVIDE ALL STAIR TREADS AT 11" DEPTH MIN.
4. PROVIDE ALL STAIR RISERS AT 7" HT. MAX.
5. REFER TO STRUCTURAL FOR TOP OF STEEL ELEVATIONS.

NORTH

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

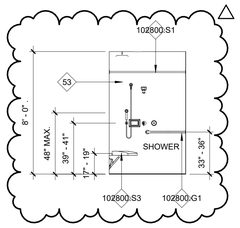
Sheet Title

ENLARGED STAIR PLAN & DETAILS

Sheet No.

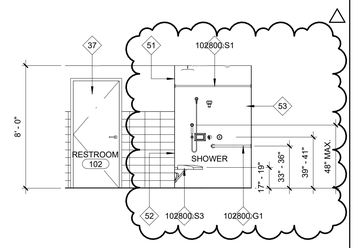
A-411

8/31/2026 2:29:05 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



E1 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"

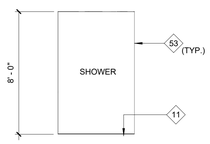


E2 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"

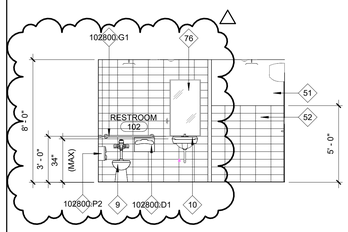
E3 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"



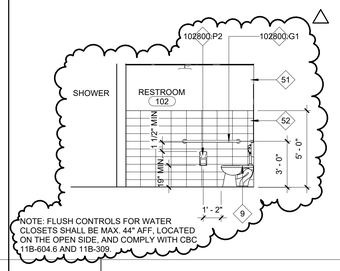
D1 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"



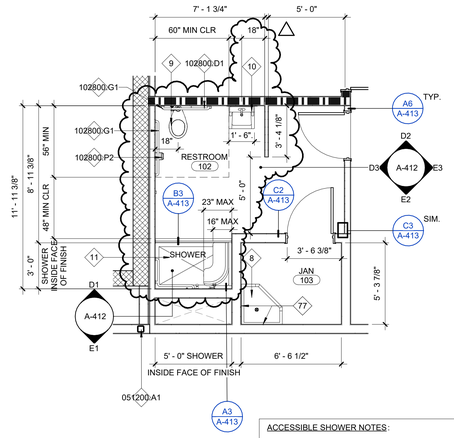
D2 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"



D3 INTERIOR ELEVATION
RESTROOM #102

1 / A01R | 1/4" = 1'-0"



ACCESSIBLE SHOWER NOTES:

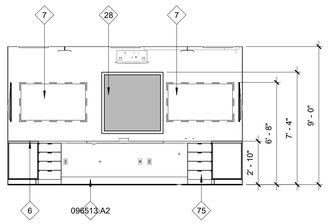
1. ACCESSIBLE SHOWER CONTROLS, FAUCET, AND HAND-HELD SHOWER SPRAY SHALL BE LOCATED ON BACK WALL ADJACENT TO SEAT WALL, 16" MINIMUM AND 27" MAXIMUM FROM SEAT WALL, ABOVE GRAB BAR, AND NOT MORE THAN 48" ABOVE SHOWER FLOOR PER CBC 11B-608.5.2.

2. FOLDING SEAT 3" MAX. FROM COMPARTMENT ENTRY.

3. 1/2" MAX. BEVELED THRESHOLD.

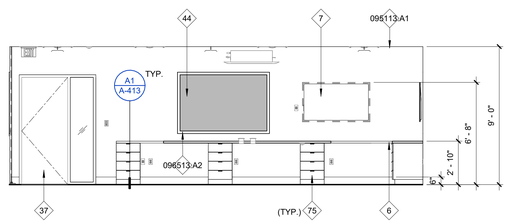
D4 ENLARGED PLAN - RESTROOM

B1 / A-101.1 | 1/4" = 1'-0"



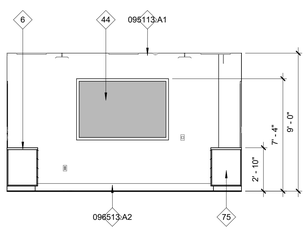
C1 INTERIOR ELEVATION
CONTROL ROOM #101

1 / A01R | 1/4" = 1'-0"



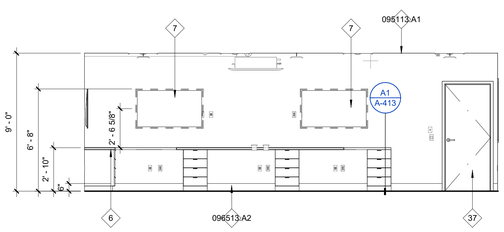
C2 INTERIOR ELEVATION
CONTROL ROOM #101

1 / A01R | 1/4" = 1'-0"



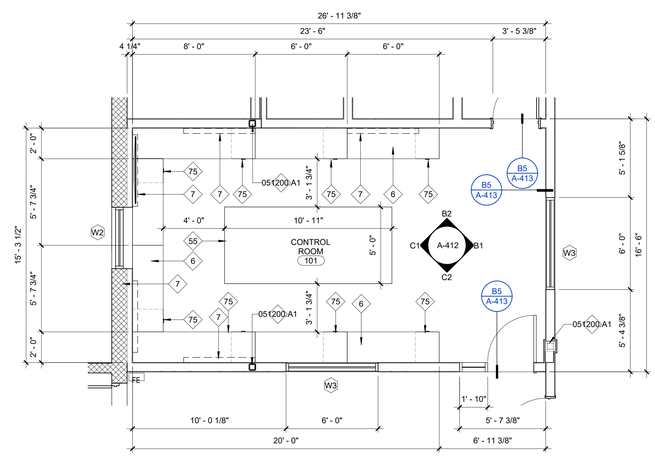
B1 INTERIOR ELEVATION
CONTROL ROOM #101

1 / A01R | 1/4" = 1'-0"



B2 INTERIOR ELEVATION
CONTROL ROOM #101

1 / A01R | 1/4" = 1'-0"



B4 ENLARGED PLAN - CONTROL ROOM

B1 / A-101.1 | 1/4" = 1'-0"

REFERENCE KEYNOTES

NUMBER	KEYNOTE TEXT
051200.A1	STRUCTURAL STEEL FRAMING. <SEE STRUCTURAL DRAWINGS>
095113.A1	ACOUSTICAL PANEL CEILING SYSTEM
096513.A2	6" RESILIENT BASE. SEE FINISH LEGEND
102800.D1	SEAT-COVER DISPENSER
102800.G1	GRAB BAR
102800.P2	PAPER TOWEL (ROLL) DISPENSER
102800.S1	SHOWER CURTAIN ROD
102800.S3	FOLDING SHOWER SEAT

SHEET KEYNOTES

NUMBER	SHEET NOTE TEXT
6	PROPOSED LOCATIONS OF WORKSTATIONS. SEE COUNTERTOP DETAIL C5/A-413; PROVIDE POWER AND DATA ACCORDINGLY, INCLUDING REQUIRED GROMMETS, SEE C4/A-413
7	PROVIDE TV AND BACK BOX AS NEEDED. COORDINATE ELEVATION AND EXACT LOCATION WITH OWNER
8	JANITOR SINK. SEE PLUMBING
9	WATER CLOSET. SEE PLUMBING
10	LAVATORY SINK. SEE PLUMBING
11	PREFAB SOLID SURFACE FINISHED SHOWER PAN ON DEPRESSED SLAB. SEE A3/A-413
28	EXTERIOR WINDOW PER SCHEDULE. SEE A-611
37	DOOR PER SCHEDULE. SEE A-611
44	INTERIOR WINDOW PER SCEHDULE. SEE A-611
51	LEVEL4 GYPSUM BOARD, PAINTED WITH SEMI-GLOSS FINISH
52	MOISTURE-RESISTANT GYPSUM BOARD WITH PORCELAIN TILE PORCELAIN TILE SHALL BE FULL-HEIGHT AT WET-WALLS AND 60" MIN. AT OTHER WALLS
53	SOLID SURFACE WALL PANELS INTEGRATED WITH SHOWER PAN AND TO WRAP AROUND SHOWER ENTRY
55	CONTROL STATION - FFE BY OWNER. SEE ELECTRICAL FOR FLOOR BOX INFORMATION
75	BASE CABINET WITH DRAWERS. SEE A1/A-413
76	MIRROR (MIN. 18"W x 36"H) ABOVE LAVATORY
77	PROVIDE FIBERGLASS REINFORCED PANELS (FRP) AT JANITOR MOP SINK WALLS TO 4'-0" HEIGHT.

GENERAL NOTES

1. PROVIDE BACKING FOR ALL ACCESSORIES. SEE DETAIL C1/A-601

2. REFER TO 'P' SHEETS FOR PLUMBING FIXTURES DETAIL INFORMATION AND FLOOR DRAINS.

3. REFER TO SHEET G-501 FOR TYPICAL ACCESSIBILITY DIAGRAMS.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
ENLARGED PLAN & INTERIOR ELEVATIONS

Sheet No.
A-412

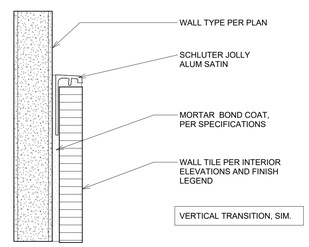
8/31/2026 2:29:09 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

INTERIOR FINISHES

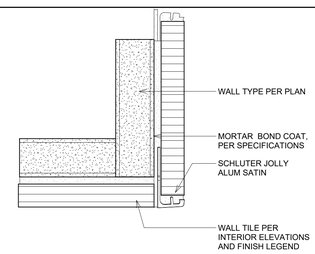
KEY NAME	SPECIFICATIONS	MATERIAL NAME	MANUFACTURER	COLLECTION	NUMBER	COLOR	FINISH	SIZE	LOCATION	INSTALL NOTES	COMMENTS	CONTACT
ACOUSTIC CEILING TILE												
ACT-1	095100	ACOUSTIC CEILING TILE	USG	ASTRO	-	WHITE	-	24"X24"	CONTROL ROOM, ENTRY VESTIBULE		-	ROGER MERCHANT 760.728.5952
ARCHITECTURAL WOOD CASEWORK												
PL-1	064100	ARCHITECTURAL WOOD CASEWORK	-	-	-	WHITE	GLOSS	-	CONTROL ROM	SEE DETAILS FOR LOCATION		
CONCRETE SLAB												
SC-1	033000	CONCRETE SLAB	-	-		NATURAL	SEALED		VESTIBULES, GENERATOR ROOM, JANITOR CLOSET, ELECTRICAL / MECHANICAL ROOMS		-	-
FIBERGLASS REINFORCED PANEL												
FRP-1	068316	FIBERGLASS REINFORCED PANEL	MARLITE	-	S100	WHITE	PEBBLED	6FT TALL	JANITOR	PROVIDE EDGING AT EXPOSED AREAS		
FLUID-APPLIED-FLOORING												
FAF	098414	FLUID-APPLIED-FLOORING							BATT ROOMS			
PAINT												
PT-1	099000	PAINT	SHERWIN WILLIAMS	-	-	-	EGGSHELL	-	OFFICES AND LOBBY		-	JOHN DUMESNIL 619.665.9341
PT-2	099000	PAINT	SHERWIN WILLIAMS				SEMIGLOSS		RESTROOM			
PORCELAIN TILE												
T-1	093000	PORCELAIN TILE	-	-	-	-	-	12"x24"	RESTROOM		-	-
RUBBER BASE												
RB	096513	RUBBER BASE	FLEXCO	-	-	-	-	-	SEE FLOOR PLAN		-	-
SOLID STONE COUNTERTOP												
SS-1	123600	SOLID STONE COUNTERTOP	CAESARSTONE	QUARTZITE	WHITE ATTICA 5143	-	POLISHED	PER PLANS & ELEVATIONS				
VYNIL COMPOSITE TILE												
VCT	096519	VYNIL COMPOSITE TILE		-	-	-	-	-	CONTROL ROOM	FLAT OR TAPER BOTH SIDES TO ADJACENT FLOOR SURFACE		

TOILET & PLUMBING ACCESSORIES

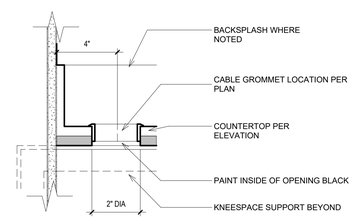
TAG	NAME	DESCRIPTION	MANUFACTURER
PF-1	TOILET	CT725CUF(G) (1.28 GPF) W/ TET1LB OILET FLUSH; MAINLINE ML1055SSC SEAT.	TOTO
PF-5	MOP SINK	TERRAZZO # 85 NEO ANGLE W/ CHICAGO FAUCETS SINK FAUCET #897-CP	FLORESTONE
TA-01	GRAB BAR	42" STRAIGHT BAR	BOBRICK #B-6806x42
TA-02	GRAB BAR	36" STRAIGHT BAR	BOBRICK #B-6806x36
TA-03	SOAP DISPENSER	WALL MOUNT DISPENSING FICTURE - CHROME 2000 mL	PURELL CXR REDIFOAM™ #8640-01
TA-04	MIRROR	GLASS TEMPERED (NO SHELF) BRIGHT POLISHED STAINLESS STEEL REFLECTIVE PORTION NO HIGHER THAN 40" AFF	BOBRICK #B-1658
TA-05	TOILET PAPER & SEAT COVER	RECESSED SEAT-COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER, STAINLESS STEEL	BOBRICK #B-3091
TA-06	UNDER MOUNTED SINK	LA CAVA	LIBERA LAVATORY 53001S-02 ONE HOLE FOR FAUCET, ORDER W/ WALL CARRIERS
TA-09	HOOK	HEAVY-DUTY CLOTHES HOOK	BOBRICK #B-212
TA-10	TRASH RECEPTACLE & TOWEL DISPENSER	RECESSED UNIT – FOR 12" WALL CAVITY W/ RECESSED AUTOMATED TOWEL DISPENSER (PROVIDE AC POWER KIT)	GP #59451 & ENMOTION RECESSED AUTO TOWEL DISPENSER #359466
TA-11	NEEDLE TRASH CONTAINER	WALL MOUNTED LOCKING CABINET	COVIDIEN # 85161H
TA-12	FEMALE SANITARY DISPENSER	RECESSED NAPKIN/TAMPON VENDOR	BOBRICK #B-37063
TA-13	GRAB BAR	18" STRAIGHT BAR (OR PROVIDE EQUAL PER CODE.SUGGESTED: #-6861 TWO-WALL SHOWER STALL)	BOBRICK #B-6806×18
TA-14	GRAB BAR	36" STRAIGHT BAR (OR PROVIDE EQUAL PER CODE.SUGGESTED: #-6861 TWO-WALL SHOWER STALL)	BOBRICK #B-6806×36
TA-15	SHOWER HEAD	COMPOSED TRANSFER VALVE W/ LEVER K-T73140-4; K-737-K DIVERTER VALVE; COMPOSED VOLUME CONTROL K-T73135-4 & K-2974-K CONTROL VALVE; PURIST K-22178-G HAND SHOWER KIT; K-22172 WALL MOUNT SUPPLY ELBOW; K-22170-G SHOWER HEAD	KHOLER
TA-25	MOP RACK	SURFACE-MOUNTED MOP & BROOM HOLDER, SATIN FINISH	BOBRICK #B-223 x 24



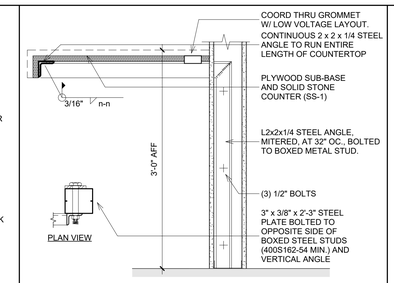
C2 WALL TILE TRANSITION (HORIZONTAL)
D4 / A-412 — 12" = 1'-0"



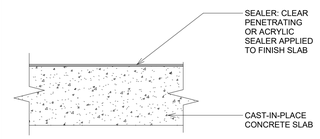
C3 WALL TILE TRANSITION - OUTSIDE CORNERS
D4 / A-412 — 12" = 1'-0"



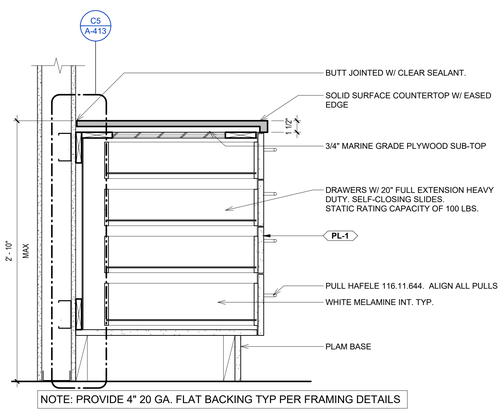
C4 GROMMET DETAIL
3" = 1'-0"



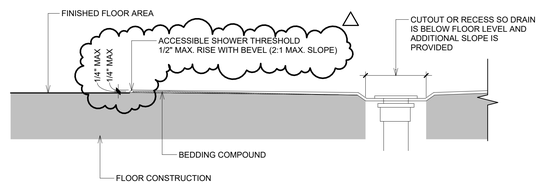
C5 COUNTERTOP SUPPORT
A1 / A-413 — 1 1/2" = 1'-0"



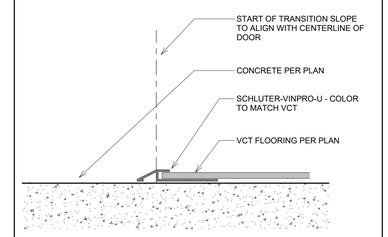
C6 SEALED CONCRETE
3" = 1'-0"



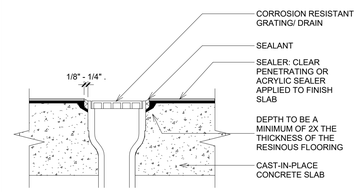
A1 BASE CABINET WITH DRAWERS
B2 / A-412 — 1 1/2" = 1'-0"



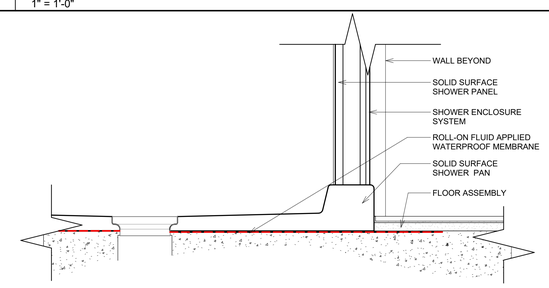
B3 SHOWER THRESHOLD DETAIL
D4 / A-412 — 1" = 1'-0"



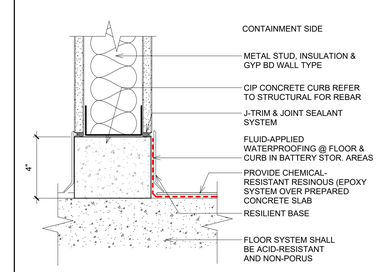
B5 VCT TO CONCRETE @ THRESHOLD
B4 / A-412 — 12" = 1'-0"



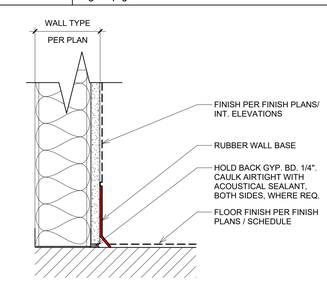
B6 SEALED CONCRETE FLOORING @ DRAIN DTL.
3" = 1'-0"



A3 SHOWER PAN TO FLOOR TRANS.
D4 / A-412 — 3" = 1'-0"



A5 CONCRETE CURB @ WATERPROOFING
B1 / A-101.1 — 3" = 1'-0"



A6 RUBBER WALL BASE
D4 / A-412 — 3" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
△	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
INTERIOR DETAILS

Sheet No.
A-413

8/31/2026 2:29:11 PM
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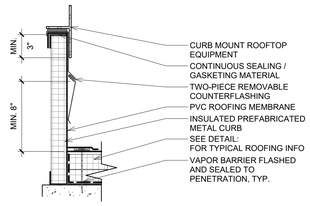
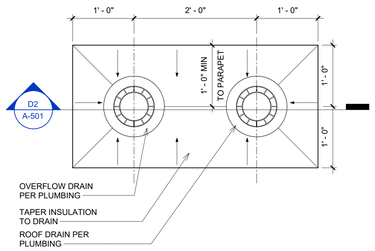
NOTES:
1. THE ROOFTOP EQUIPMENT SHOULD NOT BE SET UNTIL ROOF MEMBRANE WRAPS TOP OF PREFABRICATED CURB.
2. ATTACHMENT OF ALL BLOCKING, CURBS & OTHER ROOF COMPONENTS SHALL BE DESIGNED AND INSTALLED PER FMG CRITERIA AT MINIMUM.
3. COORDINATE TAPERED INSULATION SYSTEM / FLOW LINES OF SLOPED SUBSTRATE WITH CURBS SUCH THAT WATER FLOW IS DIRECTED AROUND THE UNIT AND POSITIVE DRAINAGE IS ACHIEVED IN ALL LOCATIONS.



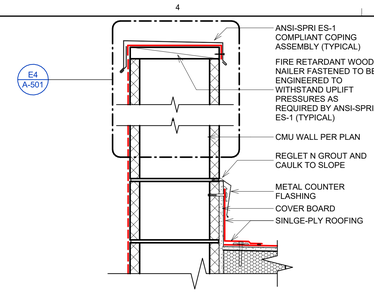
E1 PREFAB INSULATED CURB W/ FLASHING

1 1/2" = 1'-0"



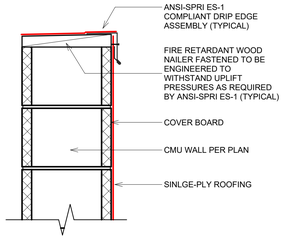
E2 ROOF - DRAIN PLAN

1" = 1'-0"



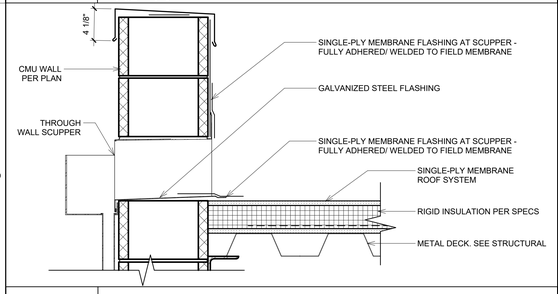
E3 TPO ROOF @ EXPOSED CMU

A5 / A-311 | 1 1/2" = 1'-0"



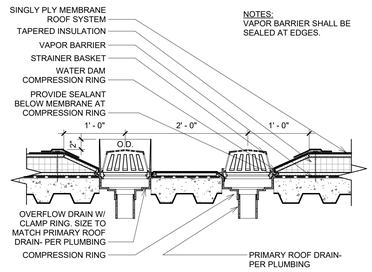
E4 CMU PARAPET @ DRIP EDGE

A4 / A-311 | 1 1/2" = 1'-0"



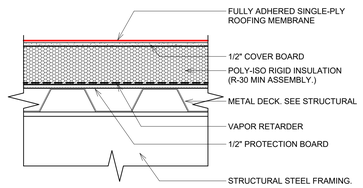
D1 ROOF SCUPPER CMU

1 1/2" = 1'-0"



D2 ROOF DRAIN & OVERFLOW @ COMPOSITE DECK

E2 / A-501 | 1" = 1'-0"

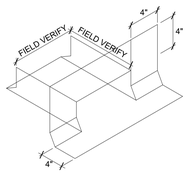


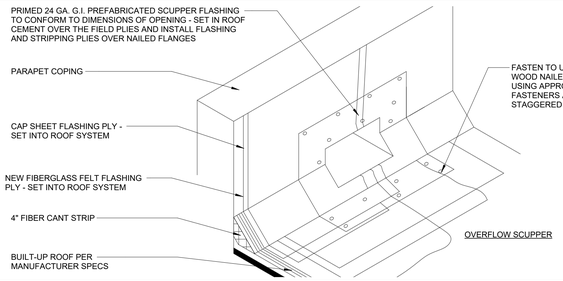
D4 TYP. SINGLE PLY ROOF METAL DECK

B1 / A-120 | 1 1/2" = 1'-0"

NOTES:
1. PRIOR TO SCUPPER INSTALLATION, EMBED ONE PLY OF REINFORCING FIBERGLASS FELT OVER THE WALL AT SCUPPER AREA, LARGE ENOUGH TO EXTEND BEYOND ALL SCUPPER FLANGES AT LEAST FOUR INCHES.
2. PROVIDE CONTINUOUS SEALANT ALONG FOUR SIDES AT JUNCTURE WITH OUTSIDE WALL SURFACE.
3. REFER TO FLASHING DETAILS FOR ADDITIONAL FLASHING NOTES.

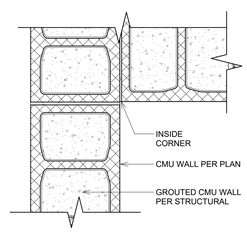
SCUPPER SIZES:
8" DRAIN= 4" x 26" SCUPPER
6" DRAIN= 4" x 19" SCUPPER
5" DRAIN= 4" x 16" SCUPPER





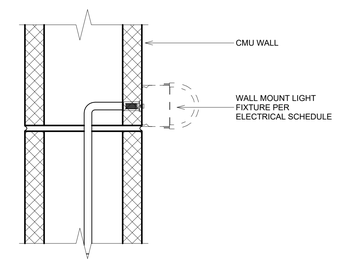
C1 OVERFLOW SCUPPERS DETAIL

1 1/2" = 1'-0"



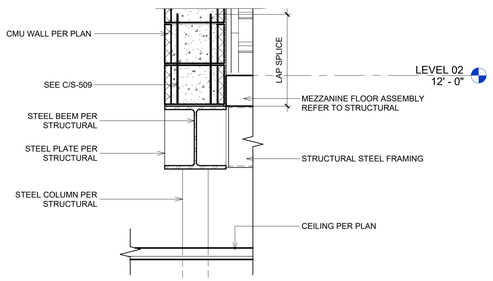
C3 PLAN @ CMU CORNERS

B1 / A-101.1 | 1 1/2" = 1'-0"



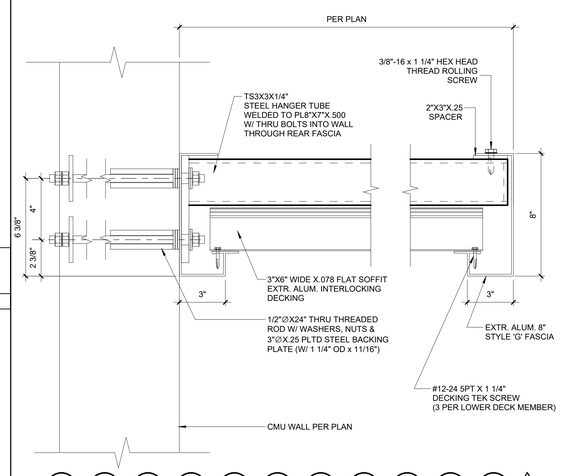
C4 WALL MOUNT FIXTURE

B1 / A-120 | 3" = 1'-0"



B1 CMU WALL/ STRUCTURAL STEEL FRAMING DETAIL

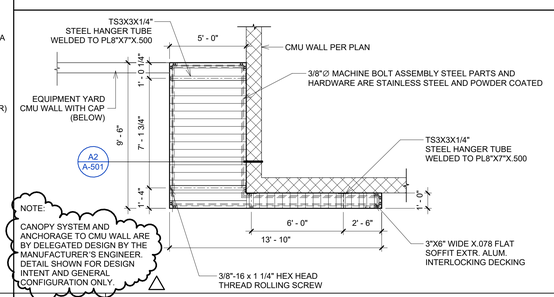
A2 / A-312 | 1" = 1'-0"



NOTE:
CANOPY SYSTEM AND ANCHORAGE TO CMU WALL ARE BY DELEGATED DESIGN BY THE MANUFACTURER 'S ENGINEER. DETAIL SHOWN FOR DESIGN INTENT AND GENERAL CONFIGURATION ONLY.

A2 CANOPY SECTION

B1 / A-120 | 3" = 1'-0"



NOTE:
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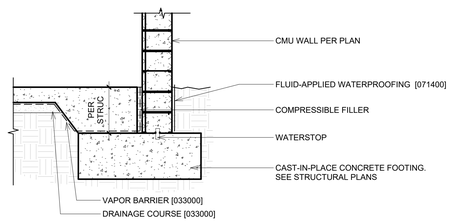
A3 CANOPY PLAN DETAIL

1/4" = 1'-0"



A4 CONCRETE SLAB ON GRADE

1/2" = 1'-0"

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CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
B △	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
TYPICAL EXTERIOR & INTERIOR DETAILS

Sheet No.
A-501

8/31/2026 2:29:12 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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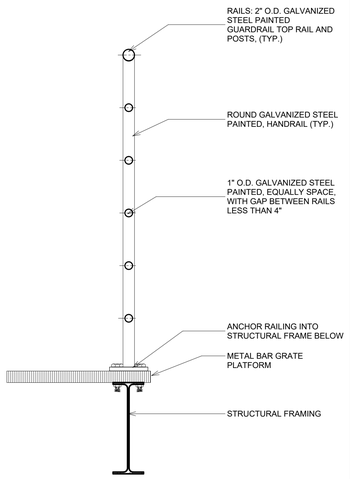
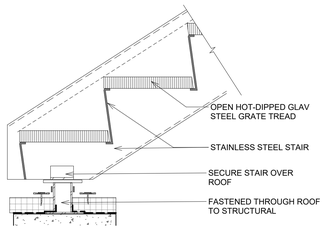
8/31/2026 2:29:13 PM



A2 EXTERIOR RAILING

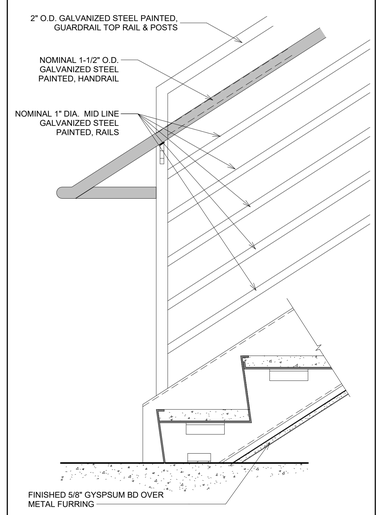
A2.5 / A-411 | 1 1/2" = 1'-0"



A3 EXTERIOR-BOTTOM OF STAIR - GRATE

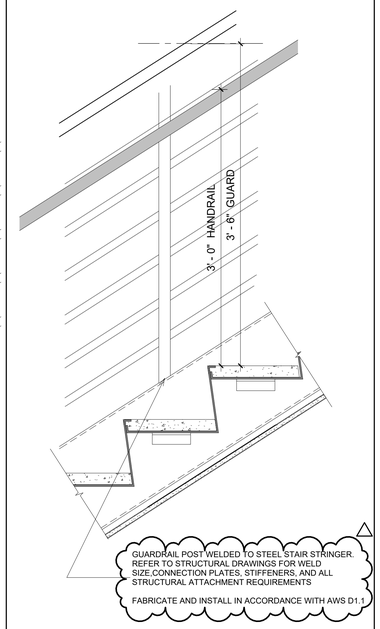
1 1/2" = 1'-0"

GUARDS MUST NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER FROM WALKING SURFACE TO REQUIRED GUARD HEIGHT. EXCEPT FROM A HEIGHT OF 36 "TO 42", GUARDS MUST NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4 3/8" IN DIAMETER PER IBC 1013.4



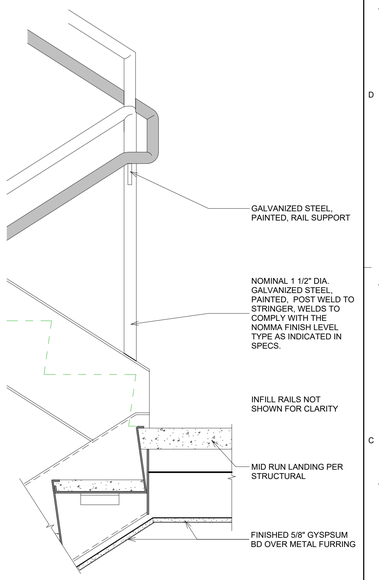
C4 STAIR & RAIL @ BOTTOM LANDING PIPE RAIL1

1 1/2" = 1'-0"



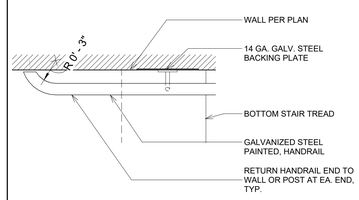
C5 MID STAIR POST - ROUND BAR1

1 1/2" = 1'-0"



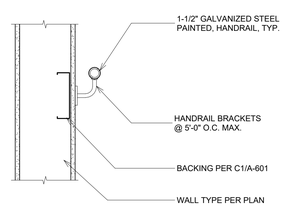
C6 INTERMEDIATE LANDING - PIPE RAIL1

1 1/2" = 1'-0"



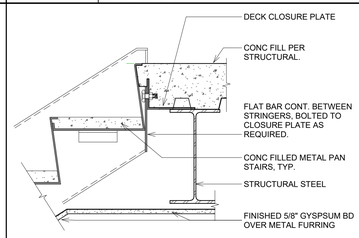
B4 WALL MOUNTED HANDRAIL RETURN1

1 1/2" = 1'-0"



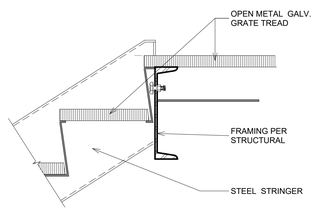
B5 WALL MOUNTED HANDRAIL1

1 1/2" = 1'-0"



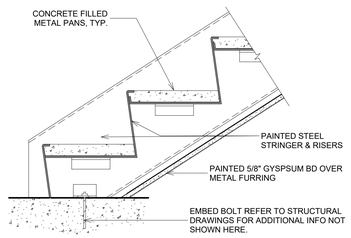
B6 STAIR TO SLAB CONNECTION

1 1/2" = 1'-0"



A4 EXTERIOR-STAIR TO GRATE CONNECTION

1 1/2" = 1'-0"



A5 BOTTOM OF STAIR - PAN1

1 1/2" = 1'-0"

0 6" 1'-0" 2'-0"

SCALE: 1-1/2" = 1'-0"

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
△	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

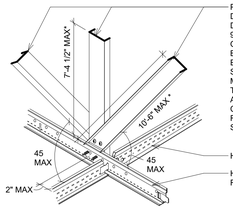
PHASE 2 - IFC 2026.06.10

Sheet Title

TYPICAL STAIR DETAILS

Sheet No.

A-502



PROVIDE MIN. 250T200-33 DIAGONAL BRACES IN 2 DIRECTIONS, ORIENTED AT 90-DEGREES FROM EACH OTHER. SPACING SHALL BE PER TABLE IN DETAIL: EACH WAY. COMPRESSION STRUT SHALL ALSO BE MIN. 250T200-33. ANCHOR TO STRUCTURAL DECK ABOVE PER DETAIL. CONNECT STRUT TO RUNNER AND BRACES TO STRUT WITH (2) #8 SMS

HEAVY DUTY CROSS TEE

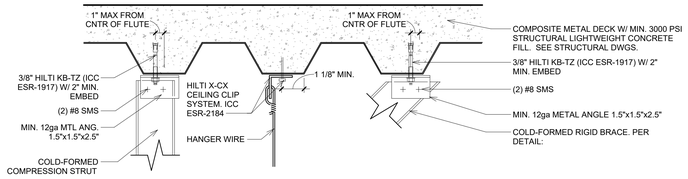
HEAVY DUTY MAIN RUNNER

*MAX LENGTH OF COMPRESSION STRUT & BRACES: CHECK KL/R<200 FOR 250T200-33: K=1.0, L=10'-6"= 126", R=0.658 (PER SSMA) (1.0)(126) / (0.658) = 191 < 200 O.K.

NOTE: REFER TO GENERAL NOTES #6 ON SHEET A-111 & A-112

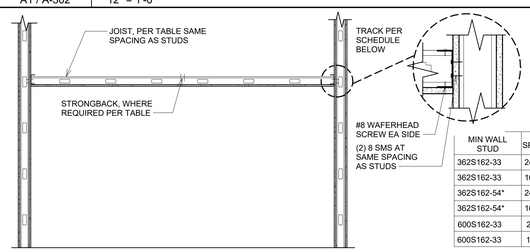
E1 CLG - RIGID SUSPEND. GRID BRACING

1/2" = 1'-0"



E2 ATTACHMENTS FOR CEILING SUPPORTS - METAL DECK

A1 / A-302 12" = 1'-0"



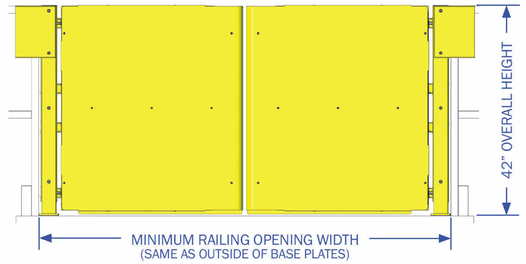
NOTES: FRAME ALL SOFFITS USING JOISTS UNLESS THE SPAN OF THE SOFFIT EXCEEDS 17'-6"

MIN WALL STUD	SPACING	JOIST	TRACK AT JOIST END	MAX SPAN
362S162-33	24" OC	250S162-33	250T150-33	10'-0"
362S162-33	16" OC	250S162-33	250T150-33	12'-2"
362S162-54*	24" OC	362S162-33	362T150-33	15'-4"
362S162-54*	16" OC	362S162-33	362T150-33	17'-6"
600S162-33	24" OC	600S162-33	600T150-33	19'-3"
600S162-33	16" OC	600S162-54	600T150-54	24'-6"

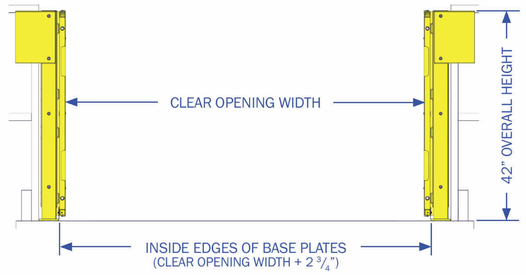
* PROVIDE STRONGBACK FOR MIDSPAN LATERAL SUPPORT OF COMPRESSION FLANGE. USE SAME SIZE AS JOISTS & ATTCH WITH (2) #8 SMS TO EACH JOIST

D2 CLNG-CEILING FRAMING

1/2" = 1'-0"



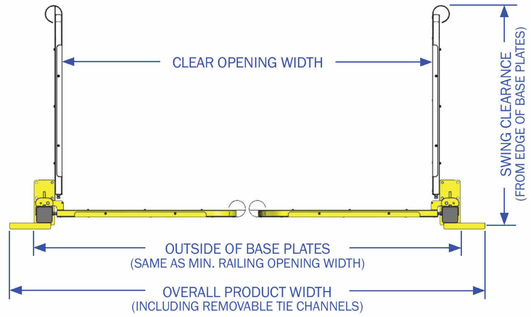
FRONT VIEW CLOSED



FRONT VIEW OPEN

BRAND:	SAFEMEZZ
PRODUCT TYPE:	PALLET SAFETY SWING GATE
OPERATIONAL:	MANUAL
GATE COLOR:	YELLOW
POST COLOR:	YELLOW
OVERALL HEIGHT:	42 IN
OVERALL WIDTH:	96 IN
GATE MATERIAL:	STEEL
GATE FINISH:	POWDER COATED

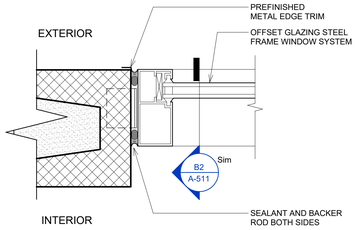
(SAFEMEZZ OR APPROVED EQUAL)



TOP VIEW

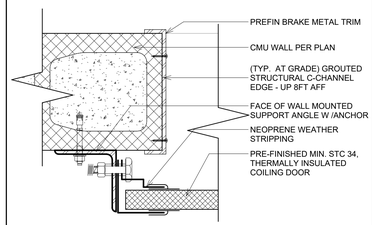
D4 PALLET SAFETY SWING GATE

1" = 1'-0"



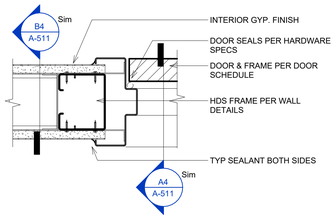
C2 EXTERIOR WINDOW JAMB - PLAN

3" = 1'-0"



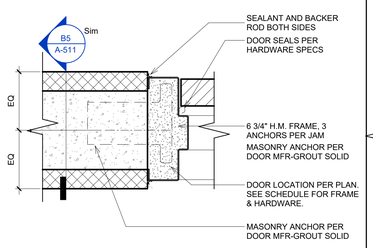
C3 CMU - ROLL UP - JAMB

3" = 1'-0"



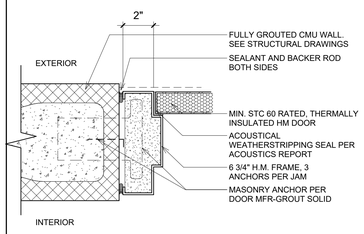
C4 INT. H.M. & GYPBD DOOR HEAD, TYP

3" = 1'-0"



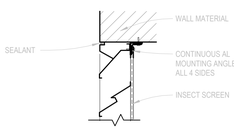
C5 INTERIOR CMU - HM - JAMB

3" = 1'-0"

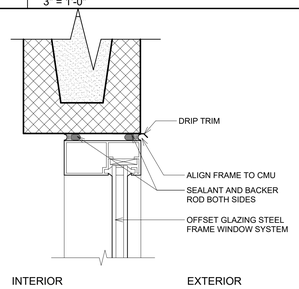


C6 CMU - HM - JAMB

3" = 1'-0"

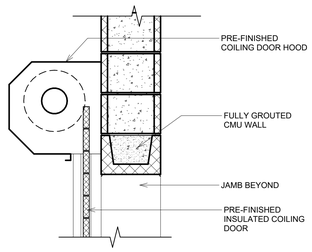


A HEAD/JAMB (SIM)



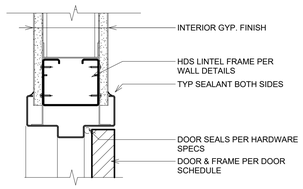
B2 EXTERIOR WINDOW HEADER - SECTION

C2 / A-511 3" = 1'-0"



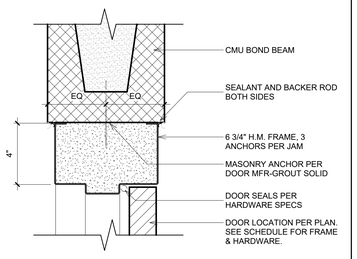
B3 COILING DOOR HEAD

1" = 1'-0"



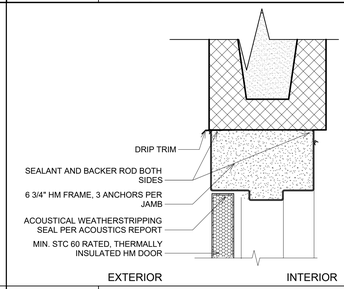
B4 INT. H.M. & GYPBD DOOR HEAD, TYP

C4 / A-511 3" = 1'-0"



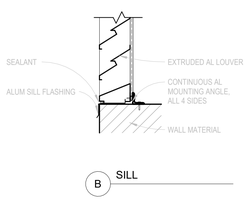
B5 INT. H.M. & CMU DOOR HEAD, TYP

C5 / A-511 3" = 1'-0"

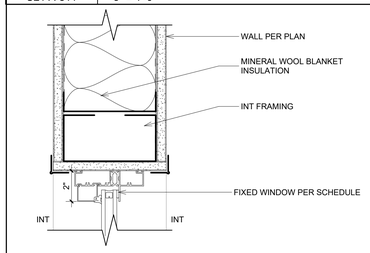


B6 CMU - HM - HEAD

3" = 1'-0"



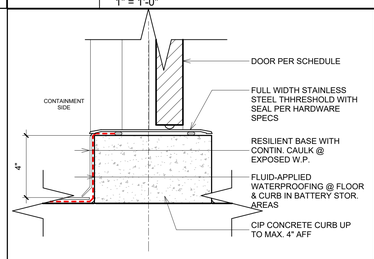
B SILL



HEAD/JAMB/SILL

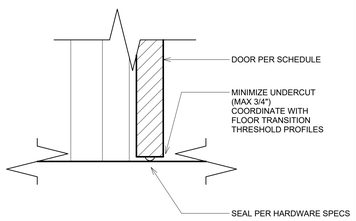
A1 INTEGRATED LOUVER DETAIL

1 1/2" = 1'-0"



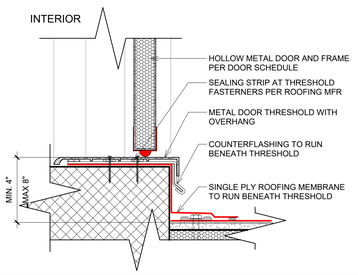
A2 INT WINDOW HEAD/JAMB/SILL

3" = 1'-0"



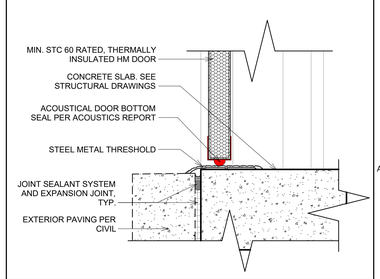
A3 RAISED DOOR SILL @ CURB

3" = 1'-0"



A4 INTERIOR DOOR SILL, TYP.

C4 / A-511 3" = 1'-0"



A5 ROOF ACCESS DOOR THRESHOLD

3" = 1'-0"

A6 EXTERIOR DOOR SILL, TYP.

A2 / A-312 3" = 1'-0"

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

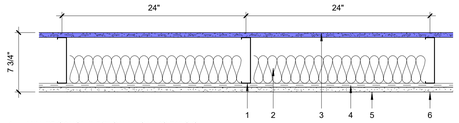
Sheet Title

DOOR AND WINDOW DETAILS & TYPICAL CEILING DETAILS

Sheet No.

A-511

8/31/2026 2:29:15 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

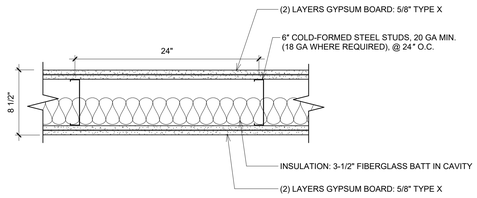


1. MIN. 25 GAUGE 3-5/8" STEEL STUDS 24" O.C.
2. 3-1/2" GLASS FIBER INSULATION
3. 5/8" GOLD BOND SOUNDBREAK XP FIRE-SHIELD GYPSUM BOARD (SBWB) APPLIED VERTICALLY WITH VERTICAL JOINTS CENTERED OVER studs and fastened TO STUDS AND TRACKS WITH 1" TYPE S SCREWS 12" O.C. (MAX 12)
4. MIN. 25 GAUGE 1/2" RESILIENT FURRING CHANNELS (RC-1, RC-2) 24" O.C.
5. 5/8" GOLD BOND FIRE-SHIELD GYPSUM BOARD (FSW, FSW-C, FSW-6, eXP-C, FSK, FSK-C) APPLIED VERTICALLY TO RESILIENT CHANNELS AND FASTENED WITH 1" TYPE S SCREWS 12" O.C. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED 24" FROM OPPOSITE SIDE. HORIZONTAL JOINTS NEED NOT BE STAGGERED.
6. JOINT TAPE AND COMPOUND OVER JOINTS AND FASTENER HEADS (OPTIONAL WHEN SQUARE EDGE BOARD IS USED)

STC 54 SOUND TEST: NGC 2013020

E1 STC-54 WALL TYPE

1 1/2" = 1'-0"



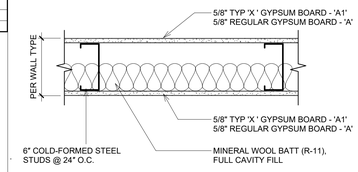
E2 UL U419 - 2 HR FIRE-RATED WALL

1 1/2" = 1'-0"

WALL TYPE - A

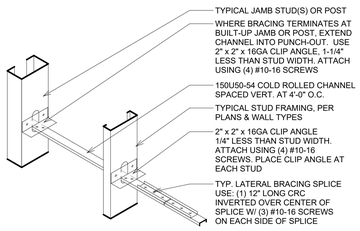
TYPE	FIRE RATING (MIN)	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	REMARKS
A	NR	-	BATT INSULATION	-	7 1/2"	SEE DETAIL: E6/A-601
A1	1HR	-	BATT INSULATION	-		SEE DETAIL: E6/A-601
A2	2HR	-	BATT INSULATION	-	8 1/2"	SEE DETAIL: E2/A-601
A3	NR	-	STC-54	-	7 3/4"	SEE DETAIL: E1/A-601
A4	NR	-	BATT INSULATION	-	-	SEE DETAIL: E6/A-601
A5	NR	-	BATT INSULATION	-	2 7/8"	SEE DETAIL: E6/A-601

TYPE	DESCRIPTION
A	NON-RATED WALL: 5/8" REGULAR GYPSUM BD. - 6" METAL STUD
A1	1-HOUR WALL: 5/8" TYPE 'X' GYPSUM BD - 6" METAL STUD
A2	2-HOUR WALL: (2) LAYERS OF 5/8" TYPE 'X' GYPSUM BD. ON EACH SIDE (STAGGERED JOINTS) - 6" METAL STUD
A3	STC-54 WALL - 6" METAL STUD
A4	NON-RATED WALL: 5/8" REGULAR GYPSUM BD. - 3 5/8" METAL STUD
A5	NON-RATED WALL: 5/8" REGULAR GYPSUM BD. - 2" METAL STUD



E6 UL U419 - 1 HR FIRE-RATED & REGULAR WALL

1 1/2" = 1'-0"

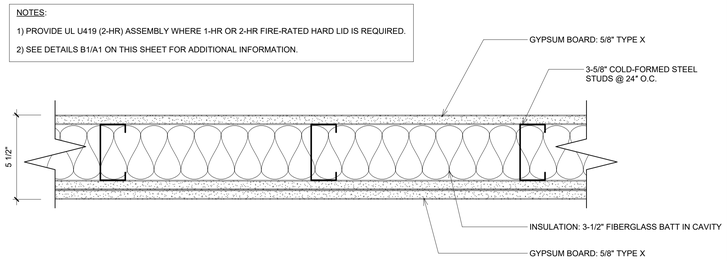


A BRIDGING DETAIL

NOTES:

1) PROVIDE UL U419 (2-HR) ASSEMBLY WHERE 1-HR OR 2-HR FIRE-RATED HARD LID IS REQUIRED.

2) SEE DETAILS B1/A1 ON THIS SHEET FOR ADDITIONAL INFORMATION.



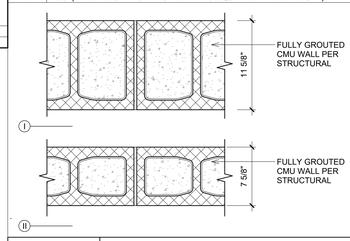
D2 UL U419 - 2 HR FIRE-RATED HARD LID ASSEMBLY

B1 / A-111 3" = 1'-0"

WALL TYPE - B

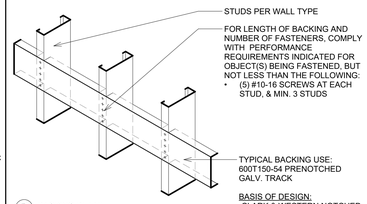
TYPE	FIRE RATING (MIN)	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	REMARKS
B	-	-	-	-	11 5/8"	SEE DETAIL: D6.II/A-601
B1	-	-	-	-	7 5/8"	TAIL: D6.I/A-601

TYPE	DESCRIPTION
B	11 5/8" CMU FULLY GROUTED WALL
B1	7 5/8" (WALL HEIGHT TO MATCH EXISTING EQUIPMENT YARD HEIGHT)



D6 CMU WALL TYPES

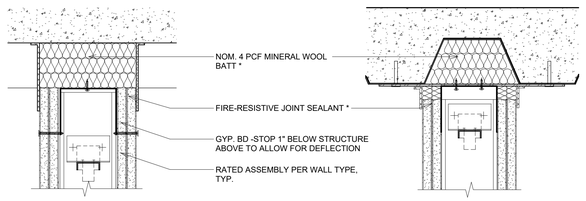
1 1/2" = 1'-0"



B BACKING DETAIL

C1 BRIDGING & BACKING

1" = 1'-0"



NOTES:
- FOR INFORMATION NOT SHOWN SEE DETAIL B2 / A-601
- *COMPLY WITH UL SYSTEM HW-D-0456 (SIM)

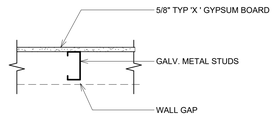
C2 HEAD OF RATED WALL @ DECK

3" = 1'-0"

WALL TYPE - C'

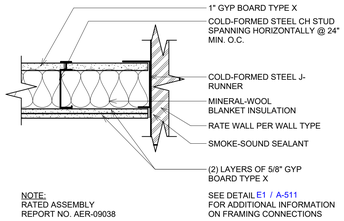
TYPE	FIRE RATING (MIN)	FIRE RATING REFERENCE	SOUND RATING	SOUND RATING REFERENCE	WALL WIDTH	REMARKS
C	NR	-	-	-	<varies>	STUD PER PLAN

TYPE	DESCRIPTION
C	METAL STUD WALL PER PLAN



C6 FURRED OUT WALL

1 1/2" = 1'-0"

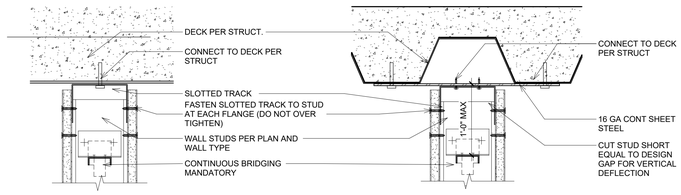


NOTE:
RATED ASSEMBLY REPORT NO. AER-09038

SEE DETAIL E1 / A-511 FOR ADDITIONAL INFORMATION ON FRAMING CONNECTIONS

B1 CEILING - 2HR RATED @ BATTERY ROOMS

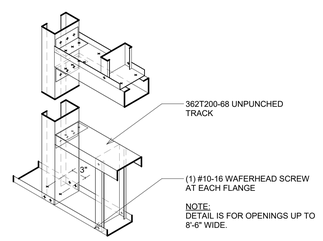
1 1/2" = 1'-0"



NOTES:
- FOR FIRE RATED CONSTRUCTION SEE DETAIL C2 / A-601

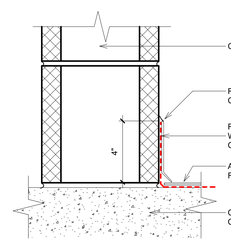
B2 TYPICAL HEAD OF WALL DETAIL @ DECK

3" = 1'-0"



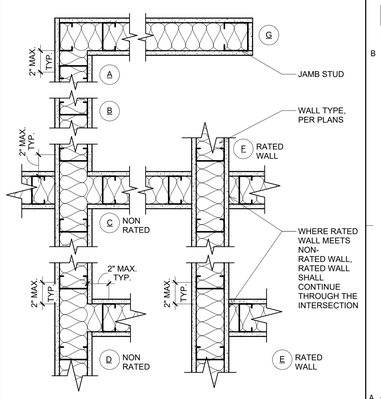
B4 FRAMED OPENING, TYP.

A4 / A-601 1 1/2" = 1'-0"



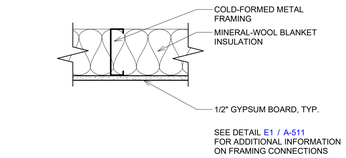
B5 CMU CURB @ WATERPROOFING

3" = 1'-0"



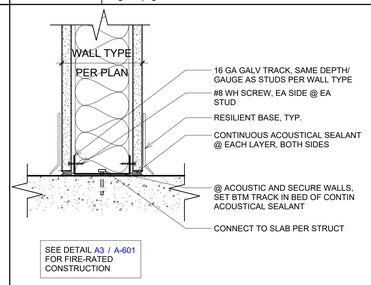
A6 PLAN TYPICAL INTERIOR STUD LAYOUT

1 1/2" = 1'-0"



A1 CEILING - HARD LID, TYP.

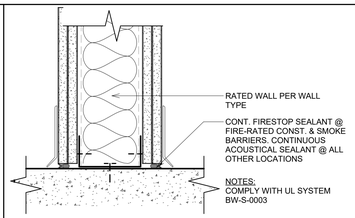
1 1/2" = 1'-0"



SEE DETAIL A3 / A-601 FOR FIRE-RATED CONSTRUCTION

A2 WALL SILL TYP.

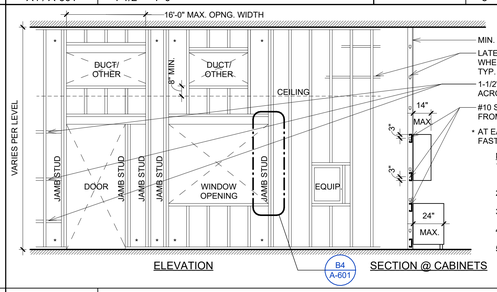
A1 / A-302 3" = 1'-0"



FOR INFORMATION NOT SHOWN HERE, SEE DETAIL: A2 / A-601

A3 WALL SILL @ FIRE RATED WALL

A1 / A-302 3" = 1'-0"



MIN. 362S162-54 STUDS @ 16" O.C. FOR CABINETS

LATERAL BRACING / BRIDGING AT 4'-0" O.C. VERTICALLY WHERE GYP. BD. DOES NOT OCCUR ON BOTH SIDES OF STUD, TYP.

1-1/2" BRACING CHANNELS @ HINGE POINTS TO EXTEND ACROSS 3 STUDS MINIMUM, TYP.

#10 S.M.S. @ 12" O.C. BETWEN CABINET & BACKING (MAX. 4" FROM EACH END & MIN. 4 PER CABINET), TYP.

* AT EACH JAMB STUD, PROVIDE (2) 0.157" POWDER ACTUATED FASTENER W/ 1" MIN. EMBEDMENT TO DECK (ICC ESR-2269).

NOTES:
1. RUN ALL STUDS CONTINUOUS FROM STRUCTURAL DECK BELOW TO UNDERSIDE OF STRUCTURAL DECK ABOVE. U.N.O.
2. SEE WALL TYPES FOR STUD SIZE, SPACING, AND GAUGE.
3. PROVIDE 16 GAUGE FRAMING AT ALL WALLS SUPPORTING CASEWORK AND CABINETS.
4. PROVIDE 16 GAUGE BACKING WHERE UPPER SHELVING IS INDICATED.
5. SEE DETAILS THIS SHEET FOR TYP. INTERIOR STUD LAYOUT AT CORNER, END WALL, AND WALL INTERSECTION CONDITIONS.

A4 TYPICAL INTERIOR STEEL STUD LAYOUT

1/4" = 1'-0"

8/31/2026 2:29:17 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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LICENSED ARCHITECT
C-22519
05 - 31 - 2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
WALL TYPES & INTERIOR DETAILS

Sheet No.
A-601

8/31/2026 2:23:18 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

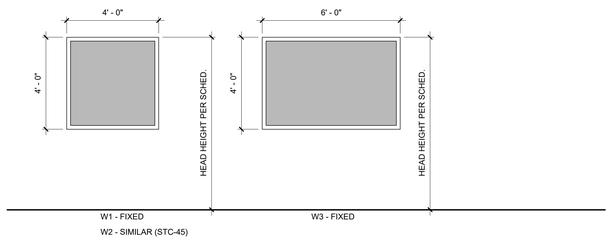
WINDOW SCHEDULE

TYPE	DIMENSIONS WIDTH	HEIGHT	HEAD HEIGHT	COMMENTS
W1	4' - 0"	4' - 0"	7' - 4"	
W2	4' - 0"	4' - 0"	7' - 4"	STC-45
W3	6' - 0"	4' - 0"	7' - 4"	STC-45

LOUVER SCHEDULE

TYPE	DIMENSIONS WIDTH	HEIGHT	HEAD HEIGHT	HEAD/JAMB DETAIL	SILL DETAIL	COMMENTS	Count
L1	1' - 8"	1' - 8"	<varies>	A1(A) /A-511	A1(B) /A-511	WALL LOUVER FOR MECHANICAL EXHAUST - SEE MECH. DWGS.	3

WINDOW TYPES



GATE SCHEDULE

(1) GATE NUMBER	GATE SIZE WIDTH	HEIGHT	(6) GATE FINISH	FRAME MATERIALS (7) FRAME MATERIAL	(12) HARDWARE GROUP	DETAILS	(15) REMARKS
111A	3' - 0"	6' - 10"	GALV	STL	18		SWINGING GATE
111B	10' - 0"	7' - 0"	GALV	STL	18	D4/AS502	SLIDING GATE
111C	10' - 0"	7' - 0"	GALV	STL	18	D4/AS502	SLIDING GATE
202	8' - 0"	3' - 6"	PLG	STL	18	D4//A-511	MEZZANINE GATE
BESS-G1	11' - 9 1/2"	5' - 9 1/2"	GALV	STL	18	A4/AS502	SLIDING GATE
BESS-G2	11' - 9 1/2"	5' - 9 1/2"	GALV	STL	18	A4/AS502	SLIDING GATE
PG1	6' - 0"	6' - 0"	GALV	STL	18		SWINGING GATE

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE WIDTH	HEIGHT	DOOR ELEV	GLAZING	DOOR FINISH	FRAME MATERIALS FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME DETAILS HEAD	JAMB	THRESHOLD	FIRE RATING (MINS)	HARDWARE GROUP REFER TO SPECIFICATIONS SECTION 08 71 00	STC	REMARKS
100	3' - 0"	7' - 0"	A	SEE REMARKS	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		2.0		DOOR WITH VISION GLASS LITE, PH, CR
100A	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		9.0	STC-45	CR
101	3' - 0"	7' - 0"	A	STC-45	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		7.0	STC-45	SINGLE DOOR WITH SIDELITE, PH, CR
102	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		16.0		
103	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		13.0		
104	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511	45 MIN	10.0		CR
105A	3' - 0"	7' - 0"	A	-	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		3.0		PH
105B	3' - 0"	7' - 0"	A	-	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		3.0		PH
105C	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		11.0	STC-45	CR
105D	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		8.0	STC-45	PH, CR
105F	16' - 0"	14' - 8"	C	-	FF	-	STL	FF	B3/A-511	C3/A-511	-		17.0		MRU
106	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A3/A-511	90 MIN	14.0		PH
107	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511	45 MIN	13.0		PH
108	6' - 0"	7' - 0"	B	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		12.0		PH
109	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A3/A-511	90 MIN	15.0		PH
110A	3' - 0"	7' - 0"	A	-	P	1	HM	P	B5/A-511	C5/A-511	A4/A-511		6.0		PH, CR
110B	6' - 0"	7' - 0"	B	-	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		1.0		PH, CR
112	3' - 0"	7' - 0"	A	-	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		5.0		
201	3' - 0"	7' - 0"	A	-	P	1	HM	P	B6/A-511	C6/A-511	A6/A-511		2.0		PH, CR
1300N	3' - 0"	7' - 0"	A	-	P	1	HM	P	B4/A-511	C4/A-511	A4/A-511		4.0		DOOR LOCATED IN THE EXISTING CASINO BACK-OF-HOUSE (BOH) NEW COMMUNICATION ROOM, PH, CR

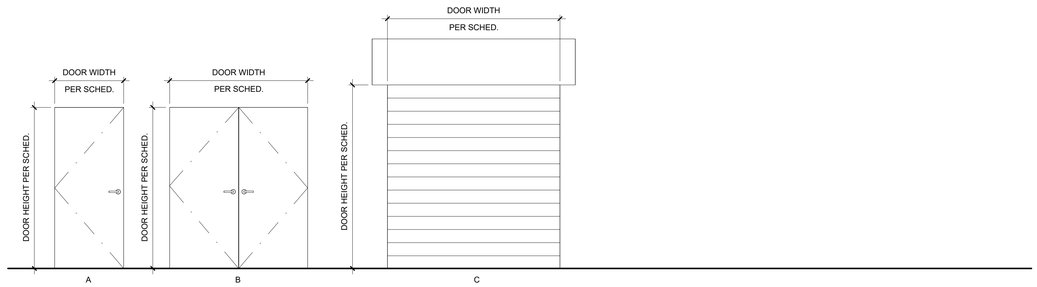
GENERAL NOTES:

1. EGRESS DOORS SHALL BE OF THE SIDE-HINGED SWINGING DOOR, PIVOTED DOOR, OR BALANCED DOOR TYPES. (CBC 1010.1.2)
2. DOOR HARDWARE OPERATED BY PUSH OR PULL, THE OPERATIONAL FORCE TO UNLATCH THE DOOR SHALL NOT EXCEED 15 POUNDS. (CBC 1010.1.3).
3. REFER TO SPECIFICATIONS FOR AUTOMATIC DOOR OPERATORS AND RELATED HARDWARE.

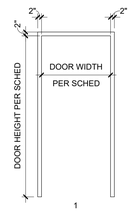
DOOR & GATE SCHEDULE NOTES

(1) NUMBER:	(4) MATERIAL (DOOR & GATE):	(7) TYPE (FRAME):	(10) DETAILS:	(13) GASKETING:
SEE PLANS FOR DOOR LOCATIONS	HM: HOLLOW METAL STL: STEEL	SEE FRAME TYPES, THIS SHEET	SEE DRAWINGS AS NOTED IN SCHEDULE	WS: WEATHER STRIPPING SS: SMOKE SEAL CL: CLOSER AC: ACOUSTICAL GASKETING MFR: PER MFR
(2) DIMENSION:	**(5) GLAZING (DOOR):**	**(8) MATERIAL (FRAME):**	**(11) FIRE RATING:**	**(14) ELECTRICAL (SEE REMARKS):**
DIMENSIONS PROVIDED EQUAL TO CLEAR FRAME WIDTH ALL DOORS 1-3/4" THICK, U.N.O. CONTRACTOR TO COORDINATE UNDERCUT TO THRESHOLD CONDITIONS.	ALL DOOR GLAZING TO BE TEMPERED GL-1: SEE FINISH SCHEDULES/SPECS	HM: HOLLOW METAL STL: STEEL	IN MINUTES	CR: CARD READER MRU: MOTORIZED ROLL-UP DOOR
(3) ELEV. TYPE (DOOR):	**(6) FINISH (DOOR & GATE):**	**(9) FINISH (FRAME):**	**(12) HARDWARE GROUP:**	**(15) REMARKS:**
SEE DOOR TYPES, THIS SHEET	P: PAINTED FF: FACTORY FINISHED GALV: GALVANIZED STEEL FRAME W/ GALVANIZED CHAIN LINK MESH PLG: STEEL POWDER COAT SAFETY YELLOW	P: PAINTED FF: FACTORY FINISHED	SEE SPECIFCATIONS	AS NEEDED PER PROJECT. PH: PANIC HARDWARE

DOOR TYPES



FRAME TYPES



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LICENSED ARCHITECT
C-22519
05-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON
1	9/01/2026	BUILDING DEPARTMENT PLAN CHECK CORRECTIONS

PHASE 2 - IFC 2026.06.10

Sheet Title
DOOR & WINDOW SCHEDULE

Sheet No.
A-611

PIPING MATERIALS

A. WATER ABOVE GRADE: COPPER TYPE "L" HARD DRAWN PER ASTM B88 WITH WROUGHT COPPER SOLDER JOINT FITTINGS PER ANSI B16.22.

B. WATER BELOW GRADE: COPPER TYPE "K" PER ASTM B88 WITH CAST SOLDER JOINT FITTINGS PER ANSI B16.18, ROUGH SOLDER JOINT FITTINGS PER ANSI B16.22 OR ANSI B16.26 FLARED JOINT FITTINGS OR SCHEDULE 80 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS PER ASTM D2665 & SHALL CONFORM TO NSF STANDARD 61. POLY SLEEVE FOR WATER PIPING BELOW GRADE. ASPHALT COATED COPPER TYPE "K" BELOW FOUNDATION SLAB.

C. SOIL, WASTE, GREASE WASTE AND VENT ABOVE GRADE: HUBLESS CAST IRON PIPE AND FITTINGS PER CISPI 301 AND IAPMO IS 6 WITH STAINLESS STEEL CLAMPS PER CISPI 310.

D. SOIL, WASTE, GREASE WASTE AND VENT BELOW GRADE: SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PLASTIC SOLVENT PIPE AND FITTINGS FOR DRAIN, WASTE & VENT (DWV), PER ASTM D2665.

a. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.

A. STORM DRAIN: SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PLATIC SOLVENT PIPE AND FITTINGS FOR DRAIN, WASTE, AND VENT (DWV), PER ASTM D2665

B. NATURAL GAS ABOVE GRADE: SCHEDULE 40 BLACK STEEL PIPE, 2 INCHES AND SMALLER, PER ASTM A 53/A 53M, GRADE A OR B, ASTM A 135/135m, OR ASTM A 139/139M, GRADE A OR B, WITH MALLEABLE THREADED FITTINGS. PIPES SIZES LARGER THAN 2 INCHES AND/OR HIGHER PRESSURE PIPE, PROVIDE BUTT WELD WROUGHT STEEL FITTINGS PER ASME B16.9. VERIFY PIPE WALL THICKNESS CONFORMS TO ASME B31.8.

C. NATURAL GAS BELOW GRADE: POLYTHYLENE (PE), SDR 11 PIPE WITH SOCKET FUSION FITTINGS AND JOINTS CONFORMING TO ASTM D 3350 AND ASTM D 2513, PIPE DESIGNATIONS PE 2406 AND PE 3408, RATED SDR 11 OR LESS, AS SPECIFIED IN ASME B31.8. MARK PIPE SECTIONS AS REQUIRED BY ASTM D 2513. PROVIDE BUTT FITTINGS CONFORMING TO ASTM D 3261 AND SOCKET FITTINGS CONFORMING TO ASTM D 2683. MATCH FITTINGS TO THE SERVICE RATING OF THE PIPE.

a. GAS WARNINGS AND IDENTIFICATION: PIPE FLOW MARKINGS, WARNING AND IDENTIFICATION TAPE, AND METAL TAGS FOR EACH VALVE, FILTER, AND REGULATOR, AS REQUIRED.

b. GAS TRANSITION FITTINGS: MANUFACTURED STEEL GAS TRANSITION FITTINGS APPROVED FOR JOINTING STEEL AND POLYETHYLENE, CONFORMING TO AGA XR0603 REQUIREMENTS FOR TRANSITION FITTINGS.

D. CONDENSATE DRAIN: COPPER TYPE "M" HARD DRAWN PER ASTM B88.

E. COMPRESSED AIR: BLACK IRON SCHEDULE 40 SEAMLESS PIPE PER ASTM A 53, GRADE A OR B WITH THREADED, MALLEABLE IRON FITTINGS AND NIPPLES, 150 PSIG MAXIMUM DESIGN PRESSURE OR COPPER TYPE "L" SEAMLESS, HARD DRAWN PER ASTM B88 WITH WROUGHT COPPER JOINT FITTINGS PER ANSI B16.22 AND BRAZING FILLER MATERIALS, BCuP SERIES, COPPER-PHOSPHORUS ALLOYS & PTFE THREADED-JOINT TAPE.

F. UREA: 304 STAINLESS STEEL.

G. LUBE OIL: 304 STAINLESS STEEL.

H. DRAIN VALVES

DRAIN VALVES SHALL USE BALL VALVE SPECIFIED ABOVE WITH ¾" HOSE THREADS OUTLET AND METAL SCREW ON CAP.

PLUMBING GENERAL NOTES

A. PLUMBING CONTRACTOR TO VERIFY LOCATION AND SIZE OF EXISTING WATER, WASTE & VENT PIPING.

B. PLUMBING CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING WASTE LINES TO ENSURE SUFFICIENT DEPTH FOR EXTENDING LINE PRIOR TO SAW CUTTING AND INSTALLATION OF NEW FIXTURES.

C. PLUMBING CONTRACTOR TO REMOVE WALL, CEILING, AND FLOORS AS REQUIRED FOR DEMOLITION AND INSTALLATION OF PLUMBING FIXTURES AND ASSOCIATED PIPING.

D. PLUMBING CONTRACTOR TO REPAIR ALL VOIDS IN FLOORS CAUSED BY SAW CUTTING AND FIXTURE OR PIPE REMOVAL TO MATCH ADJACENT SURFACES.

E. PLUMBING CONTRACTOR TO COORDINATE LOCATION OF PLUMBING PIPE ROUTING WITH MECHANICAL DUCTWORK.

F. FOR FIRE RATED WALLS, SEE ARCHITECTURAL DRAWINGS.

G. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.

H. FOR FIXTURE HEIGHT AND ACCESSIBILITY REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS.

I. VERIFY INVERT ELEVATIONS AND FINISHED FLOOR ELEVATION WITH ARCHITECTURAL PLANS.

J. ALL SAW CUTTING SHALL BE COORDINATED WITH ARCHITECT PRIOR TO COMMENCING ANY TYPE OF WORK. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS AND ANY ATTACHMENTS OR PENETRATIONS INTO POST TENSION SLAB ABOVE WILL BE X-RAYED PRIOR TO COMMENCING WORK.

K. ALL WORK SHALL CONFORM TO 2022 CPC.

L. BRACING OF PIPES, DUCTS, ETC, SHALL BE PER SEISMIC HAZARD LEVEL 'AA' OF THE LATEST EDITION OF SMACNA GUIDELINES.

M. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO CCR. TITLE 24, 2022 CBC SECTION 16A.

N. ALL PENETRATION THROUGH ROOF AND FLOOR SHALL BE WEATHER PROOFED.

O. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.

P. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.

Q. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.

R. INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS WILL COMPLY WITH SECTION 318.0 CPC.

S. LOCATION AND SIZE OF EXISTING PIPING TO REMAIN IS ESTIMATED. DURING BID, CONTRACTOR TO ASSUME THAT PIPING SHOWN MAY BE OFF LOCATION UP TO 5 FEET IN EITHER DIRECTION.

T. FAUCET CONTROLS AND OPERATING MECHANISMS ARE OPERABLE WITH ONE HAND IN ACCORDANCE WITH THIS CHAPTER AND DO NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N). LEVER OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS (PREFERABLE) ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. ADAAG 4.24.7 & CBC 1115B.4.3.1

U. ALL DRAIN, WASTE & VENT PIPING SHALL SLOPE AT 1/4" PER FOOT, UNLESS OTHERWISE NOTED.

PLUMBING ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE STYRENE
A/C	ABOVE CEILING
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
A/G	ABOVE GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BFP	BACKFLOW PREVENTER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BTUH	BRITISH THERMAL UNIT PER HOUR
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ENERGY CODE
CFH	CUBIC FEET PER HOUR
CH	CHAPTER
CISPI	CAST IRON SOIL PIPE INSTITUTE
CONN	CONNECTION
CONT	CONTINUATION
CP	CIRCULATION PUMP
CPC	CALIFORNIA PLUMBING CODE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIR.	DIRECT
DN	DOWN
DOM	DOMESTIC
DU	DRAINAGE UNIT
DWV	DRAINAGE, WASTE & VENT
ET	EXPANSION TANK
°F, F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPERES
FPS	FEET PER SECOND
FSC	FOOD SERVICE CONSULTANT
FT	FLUSH TANK
FT HD	FEET HEAD
FU	FIXTURE UNIT
FV	FLUSH VALVE
GAL	GALLON
GD	GRAVITY DRAIN
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HZ	HERTZ
I/A	IN ATTIC OR ABOVE CEILING
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS
IE	INVERT ELEVATION
INDIR.	INDIRECT
IPC	INTERNATIONAL PLUMBING CODE
KS	KITCHEN SINK
KW	KILOWATT
LAV	LAVATORY
LBS	POUNDS
MFR	MANUFACTURER
MS	MOP SINK
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NSF	NATIONAL SANITATION FOUNDATION
PE	PROFESSIONAL ENGINEER
PH	PHASE
PR	PRIVATE
PSI	POUNDS PER SQUARE INCH
PU	PUBLIC
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
S	SINK
SCH	SCHEDULE
SDG&E	SAN DIEGO GAS & ELECTRIC
SH	SHOWER
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC	SPECIFICATION
SS	STAINLESS STEEL
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
U/G	UNDERGROUND
V	VOLT
WC	WATER CLOSET
WF	WATER FILTER
WH	WATER HEATER
W/	WITH
(X)	EXISTING
(XD)	EXISTING TO BE DEMOLISHED
(XR)	EXISTING TO BE RELOCATED
(XL)	NEW LOCATION OF EXISTING

PLUMBING SYMBOLS

DESCRIPTION	SYMBOL	ABBREVIATION
EXISTING COLD WATER		(X)CW
EXISTING HOT WATER		(X)HW
EXISTING SANITARY		(X)SAN
EXISTING VENT		(X)V
SANITARY OR WASTE ABOVE GRADE		SAN OR W
SANITARY OR WASTE BELOW GRADE		SAN OR W
VENT	V	V
DOMESTIC COLD WATER		CW
DOMESTIC HOT WATER		HW
DOMESTIC HOT WATER RETURN		HWR
CONDENSATE DRAIN	CD	CD
STORM DRAIN	SD	SD
OVERFLOW STORM DRAIN	OSD	OSD
TRAP PRIMER	TP	TP
FLOOR CLEAN-OUT		FCO
CLEAN-OUT TO GRADE		COTG
WALL CLEAN-OUT		WCO
HOSE BIBB		HB
PIPE RISER		-
PIPE DOWN		-
SHUTOFF VALVE ON RISE OR DROP		-
CAP		-
PIPE TO BE DEMOLISHED		-
VENT THRU ROOF		VTR
WATER HAMMER ARRESTOR		WHA
SHUTOFF VALVE		SOV
SOLENOID VALVE		SV
PRESSURE REDUCING VALVE		PRV
GLOBE VALVE		GLV
CHECK VALVE		CV
BALANCING VALVE		BV
BALL VALVE		SOV
BUTTERFLY VALVE		SOV
FLOOR DRAIN		FD
FLOOR SINK		FS
CATCH BASIN		CB
ROOF DRAIN		RD
OVERFLOW ROOF DRAIN		ORD
POINT OF CONNECTION		POC
POINT OF REMOVAL		POR
GAS METER	GM	GM
CARBON MONOXIDE DETECTOR	CO	CO
WATER METER	WM	WM
TAG TAG NUMBER	X XX	

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING GENERAL NOTES AND ABBREVIATIONS

Sheet No.
P-001

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CIRCULATION PUMP SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	POWER SUPPLY Watts	POWER SUPPLY V/PH/Hz	REMARKS
CP	1	GRUNDFOS	ALPHA CS 15-55 SU7P/TLC	DOMESTIC HOT WATER RETURN	38	120/1/60	INLINE, WET ROTOR, CIRCULATION PUMP, STAINLESS STEEL HOUSING. 4.0 GPM & 10 FT HD.

EXPANSION TANK SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	REMARKS
ET	1	BELL & GOSSETT	PTA-12	DOMESTIC HOT WATER	5.0	3.3	ASME DIAPHRAGM THERMAL EXPANSION ABSORBER. 5.0 GALLON TANK VOLUME, 3.3 GALLON MAXIMUM ACCEPTANCE VOLUME, 12" DIAMETER x 14" HIGH, 3/4" SYSTEM CONNECTION, 150 PSI MAXIMUM WORKING PRESSURE, 80 PSI MAXIMUM LINE PRESSURE.

THERMOSTATIC MIXING VALVE SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	REMARKS
TMV	1	Leonard Valve Company	TM-26-LF	DOMESTIC HOT WATER	LOW LEAD THERMOSTATIC MASTER MIXING VALVE, 3/4" SIZE INLETS & 3/4" OUTLET, INTEGRAL COMBINATION CHECKSTOPS, LOCKING TMPERATURE ADJUSTMENT KNOB, MINIMUM FLOW: 1.0 GPM. ASSE 1017 CERTIFIED. MAXIMUM PRESSURE: 125 PSI. INLET TEMPERATURE IS 140 DEGREES F. SET OUTLET TEMPERATURE TO 110 DEGREES F (ADJ.).

DOMESTIC WATER HEATER SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	LOCATION RM. NAME	LOCATION RM. #	MANUFACTURER	MODEL	SERVICE	POWER SUPPLY V/PH/Hz	REMARKS
WH	1	JANITOR	103	A.O. Smith	DEL-40	DOMESTIC HOT WATER	480/3/60	COMMERCIAL ELECTRIC WATER HEATER, LOWBOY STYLE, 38 GALLON STORAGE, 75°F TEMPERATURE RISE (65°F INLET / 140°F OUTLET), 46 GPH RECOVERY, 9.0 KW INPUT, 4,500 WATT UPPER / 4,500 WATT LOWER ELEMENTS, SIMULTANEOUS OPERATION, 480V, THREE-PHASE. DIMENSIONS: 23" DIAMETER x 32" HIGH, 600 LBS OPERATING WEIGHT, 3/4" INLET / OUTLET.

AIR COMPRESSOR SCHEDULE

MARK	ID #	LOCATION RM. NAME	LOCATION RM. NUMBER	MANUFACTURER	MODEL	POWER SUPPLY HP TOTAL	POWER SUPPLY SYSTEM FLA	POWER SUPPLY V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
AC	1	EQUIPMENT YARD	YARD	KAISHAN	KRSD100-150V	100	127.0	460/3/60	5,100	VARIABLE SPEED DRIVE ROTARY SCREW AIR COMPRESSOR. CAPACITY AT FULL LOAD PRESSURE: 400 SCFM AT 150 PSIG. COMPRESSOR PACKAGE KW: 95.9, FULL LOAD PACKAGE AMPS: 127.0, 460/3/60. 3" NPS DISCHARGE CONNECTION SIZE.

REFRIGERATED DRYER SCHEDULE

MARK	ID #	LOCATION RM. NAME	LOCATION RM. NUMBER	MANUFACTURER	MODEL	SCFM	V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
AD	1	EQUIPMENT YARD	YARD	NANO	DXR 0500N	500	460/3/60	400	DIRECT EXPANSION REFRIGERATED AIR DRYER. INCLUDES DIGITAL CONTROLLER, ENERGY EFFICIENT ALUMINUM BLOCK HEAT EXCHANGER, ZERO AIR LOSS DRAIN & HOT GAS BYPASS VALVE. 2-1/2" INLET & OUTLET CONNECTIONS, ABSORBED POWER: 3.2 KW, R410A REFRIGERANT

RECEIVER TANK SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	LOCATION RM. NAME	LOCATION RM. #	MANUFACTURER	MODEL	DESCRIPTION	SERVICE	TANK VOLUME (GAL)	MAX. OPER. PRESSURE (PSI)	OPER. WEIGHT (LBS)	REMARKS
RT	1	EQUIPMENT YARD	YARD	SAMUEL	400 GALLONS	WET RECEIVER TANK	AC-1	400	165	800	400 GALLONS WET RECEIVER TANK, 165 PSI AT 400F DEGREES. ASME STAMPED, INCLUDES RECEIVER TANK KIT - PRESSURE GAUGE AND SAFETY VALVE. INCLUDES ZERO LOSS AUTO DRAIN.
RT	2	EQUIPMENT YARD	YARD	SAMUEL	1,060 GALLONS	DRY RECEIVER TANK	AC-1	1,060	155	2,150	1,060 GALLONS DRY RECEIVER TANK, 165 PSI AT 400F DEGREES. ASME STAMPED, INCLUDES RECEIVER TANK KIT - PRESSURE GAUGE AND SAFETY VALVE, INCLUDES ZERO LOSS AUTO DRAIN.

UREA DOSING PANEL SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	LOCATION RM. NAME	LOCATION RM. #	MANUFACTURER	MODEL	SERVICE	POWER SUPPLY FLA	POWER SUPPLY V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
UD	1	GENERATOR ROOM	111	JOHNSON MATTHEY	AQUEOUS UREA INJECTION CONTROL SYSTEM	GG SCR SYSTEM	5.9	120/1/60	350	AQUEOUS UREA INJECTION CONTROL SYSTEM TO INCLUDE CONTROL PANEL, DOSING SYSTEM, AQUEOUS UREA INJECTION LANCE & EXHAUST GAS TEMPERATURE TRANSMITTER. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.
UD	2	GENERATOR ROOM	111	JOHNSON MATTHEY	AQUEOUS UREA INJECTION CONTROL SYSTEM	GG SCR SYSTEM	5.9	120/1/60	350	AQUEOUS UREA INJECTION CONTROL SYSTEM TO INCLUDE CONTROL PANEL, DOSING SYSTEM, AQUEOUS UREA INJECTION LANCE & EXHAUST GAS TEMPERATURE TRANSMITTER. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.

OIL TANK SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	HP TOTAL	V/PH/Hz	Wet Weight	REMARKS
LO	9	E & CA	SCDT350ULD	GG-1	1/3	115/1/60	3700	350 GALLON FRESH OIL UL-142 CONTAINMENT TANK. PROVIDE PUMP, MOTOR, SWITCH, ALARM PANEL & STATUS LIGHT. INCLUDES HEAVY DUTY 1/2 HP. 115 VAC, 1PH, 60HZ MOTOR WITH 7 GPM BRONZE HIGH LIFT GEAR PUMP WITH STAINLESS STEEL SHAFTS. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.
WO	9	E & CA	SCFT200ULD	GG-1			2400	200 GALLON WASTE OIL UL-142 CONTAINMENT TANK. PROVIDE POWER FOR ALARM PANEL. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.
LO	10	E & CA	SCDT350ULD	GG-2	1/3	115/1/60	3700	350 GALLON FRESH OIL UL-142 CONTAINMENT TANK. PROVIDE PUMP, MOTOR, SWITCH, ALARM PANEL & STATUS LIGHT. INCLUDES HEAVY DUTY 1/2 HP. 115 VAC, 1PH, 60HZ MOTOR WITH 7 GPM BRONZE HIGH LIFT GEAR PUMP WITH STAINLESS STEEL SHAFTS. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.
WO	10	E & CA	SCFT200ULD	GG-2			2400	200 GALLON WASTE OIL UL-142 CONTAINMENT TANK. PROVIDE POWER FOR ALARM PANEL. PARASITIC LOAD - SERVED FROM GENERATOR EMERGENCY POWER. REQUIRED FOR GENERATOR/TURBINE OPERATION.

COMPRESSED AIR REGULATOR

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	REMARKS
CR	1	PARKER	R119-04CG	COMPRESSED AIR	COMPRESSED AIR REGULATOR: 1/2" NPT, 300 MAX PSI, HEAVY-DUTY T-HANDLE, MAX AIRFLOW: 150 CFM, PRESSURE GAUGE INCLUDED.

OILY-WATER SEPARATOR SCHEDULE

MARK	ID #	LOCATION RM. NAME	MANUFACTURER	MODEL	SCFM	OPER. WEIGHT (LBS)	REMARKS
OS	1	EQUIPMENT YARD	NANO	SEP 900 ST	400	40	OIL / WATER SEPARATOR. MAXIMUM WORKING PRESSURE: 232 PSIG, 4,000 HOURS EXPECTED MEDIA LIFE, 3/4" OUTLET CONNECTION.

OIL-WATER SEPARATOR SCHEDULE

MARK	ID #	LOCATION RM. NAME	MANUFACTURER	MODEL	GPM	OPER. WEIGHT (LBS)	REMARKS
OWS	1	GENERATOR HALL	OIL WATER SEPARATOR TECH.	RF-F-35	35	3,500	SURFACE LEVEL OIL / WATER SEPARATOR. 350 GAL CAPACITY, 25 GAL OIL CAPACITY, 135 GAL OIL SPILL CAPACITY, 5 CU./FT. SOLIDS CAPACITY

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING SCHEDULES

Sheet No.
P-002

6/5/2026 1:40:37 PM
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PLUMBING FIXTURE SCHEDULE

MARK	ID #	MANUFACTURER	MODEL	WASTE	VENT	CW	TW (110F)	REMARKS
DS	1	Zurn Water, LLC	Z199	5"	-	-	-	DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE, 5" CONNECTION SIZE.
EEWS	1	Haws Corporation	8317CTFP	-	-	1-1/4"	-	AXION MSR FREEZE-PROTECTED SHOWER AND EYE/FACE WASH. 1-1/4" SCHEDULE 40 STAINLESS STEEL PIPE STANCHION, GALVANIZED FITTINGS, AND POWDER-COATED CAST-IRON 9" DIAMETER FLOOR FLANGE. INCLUDES 120V THERMOSTATICALLY CONTROLLED HEAT TRACED CABLE, 3/4" INSULATION, UV PROTECTED ABS PLASTIC JACKET & SHOWERHEAD WITH INTEGRAL SELF-REGULATING 20 GPM FLOW CONTROL. ELECTRICAL: 120 VAC, 1.25 AMPS.
FD	1	WATTS	FD-322	2"	2"	-	-	ROUND TOP, NO-HUB OUTLET. PROVIDE WITH TRAP PRIMER CONNECTION.
FS	1	WATTS	FS-734	4"	2"	-	-	12" SQUARE x 6" DEEP SANITARY FLOOR SINK, WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, POLYPROPYLENE DOME BOTTOM STRAINER, NO-HUB OUTLET. FLOOR SINK TO BE LOCATED OUTDOORS SO PROVIDE 1" CONCRETE LIP TO PREVENT RAINWATER FROM ENTERING.
LAV	1	KOHLER	K-2215	2"	2"	1/2"	1/2"	RECTANGULAR UNDERMOUNT VITREOUS CHINA BATHROOM LAVATORY. INCLUDES OVERFLOW DRAIN & BASIN CLAMPS. PROVIDE K-8998 P-TRAP. ASME A112.19.2/CSA B45.1, ADA. SINK DIMENSIONS: 23-1/4" x 16-1/4" x 8-1/8". BOWL DIMENSIONS: 20-5/8" x 13-5/8" x 4-5/8". PROVIDE KOHLER VENZA K-28125-4N WIDESPREAD BATHROOM FAUCET, 0.5 GPM, TWO LEVER HANDLES, 5-1/2" SPOUT REACH, DECK MOUNTED, 8" CENTERS. ASME A112.18.1/CSA B125.1, ADA.
MS	1	ACORN	TCR-28	3"	2"	1/2"	1/2"	PRECAST TERRAZZO DROP FRONT MOP SINK, INTEGRAL DRAIN WITH SS GRID STRAINER, 28"x28"x12" DIMENSIONS. PROVIDE ACCESSORIES: HOSE 36" LONG WITH WALL HANGER (KH36), WALL GUARD ONE SIDE (KWG), MOP HANGER (KMH). PROVIDE CHICAGO SERVICE FAUCET MODEL 897-CCP WITH INTEGRAL HOT AND COLD WATER SUPPLY STOPS & CHECK VALVES, 3/4" MALE HOSE THREAD OUTLET & VACUUM BREAKER SPOUT WITH PAIL HOOK & WALL BRACE.
RD	1	ZURN	Z163	3"	-	-	-	15" DIAMETER COMBINATION MAIN ROOF & OVERFLOW DRAIN W / LOW SILHOUETTE DOMES & DOUBLE TOP-SET DECK PLATE. 3" CONNECTION SIZE.
RD	2	ZURN	Z163	4"	-	-	-	15" DIAMETER COMBINATION MAIN ROOF & OVERFLOW DRAIN W / LOW SILHOUETTE DOMES & DOUBLE TOP-SET DECK PLATE. 4" CONNECTION SIZE.
S	1	ELKAY	SS8345LR	3"	1-1/2"	1/2"	1/2"	STURDIBILT SCULLERY SINK, SQUARE CORNER, TRIPLE COMPARTMENT. TYPE 304 STAINLESS STEEL, COMPARTMENTS 14" DEEP, 8" HIGH BACKSPLASH WITH 45 DEGREE SLOPED TOP, INTEGRAL DRAINBOARDS. SINK SUPPORTED ON (4)LK251 STAINLESS STEEL TUBULAR LEGS. DIMENSIONS: 93" x 27-1/2" x 44". PROVIDE 4 FAUCET HOLES. PROVIDE (2) ELKAY LK940GN04L2H FAUCETS, 8" CENTERSET WALL MOUNTED GOOSENECK SPOUT, 1.5 GPM, CHROME-PLATED BRASS MATERIAL WITH A QUARTER TURN CERAMIC DISC VALVE.
SH	1	KOHLER	K-22181-G	2"	1-1/2"	1/2"	1/2"	PURIST SHOWERING KIT, 1.75 GPM, INCLUDES HANDSHOWER, SHOWERHEAD, 60" HANDSHOWER HOSE, SHOWER ARM WITH DIVERTER, 30" SLIDE BAR, AND PURIST RITE-TEMP VALVE TRIM. ASME A112.18.1/CSA B125.1, WATER SENSE CERTIFIED. PROVIDE KOHLER RITE-TEMP VALVE BODY ROUGH-IN K-8300-K.
UR	1	AMERICAN STANDARD	6042.453	2"	1-1/2"	3/4"	-	WALL HUNG, WASHOUT URINAL, VITREOUS CHINA, 3/4" TOP SPUD. INCLUDES AMERICAN STANDARD MANUAL FLUSH VALVE 6045.013.002, 0.125 GPF. MINIMUM 20 PSI WORKING PRESSURE, INCLUDES WALL HANGERS, ASME A112.19.2-2008/CSA B45.1-08, ASSE 1037, ANSI/ASME A112.19.2, ADA COMPLIANT, WATER SENSE CERTIFIED.
WC	1	AMERICAN STANDARD	3641.001	4"	2"	1-1/2"	-	FLOOR MOUNT, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT. PROVIDE AMERICAN STANDARD MANUAL FLUSHOMETER 6047.121.002, 1.28 GPF. MINIMUM 30 PSI WORKING PRESSURE. ELONGATED, OPEN FRONT SEAT INCLUDED. ASME A112.19.2, ADA COMPLIANT, WATER SENSE CERTIFIED.

HOSE BIBB SCHEDULE

MARK	ID #	MANUFACTURER	MODEL	WASTE	VENT	CW	TW (110F)	REMARKS
HB	1	WOODFORD	B67	-	-	3/4"	-	FREEZELESS CONCEALED BOX TYPE WALL HYDRANT. INCLUDES HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER & VACUUM BREAKER, PERMANENT TYPE BRASS VALVE BODY, 3/4" OUTLET & INLET, HARDENED STAINLESS STEEL OPERATING STEM & LOOSE TEE KEY.
HB	2	WOODFORD	SRH-MS	-	-	3/4"	-	FREEZELESS ROOF HYDRANT. ASSE 1057 LISTED, NO DRAIN LINE REQUIRED, 3/4" INLET CONNECTION, INCLUDES ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER.

WATER HAMMER ARRESTOR SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	REMARKS
WHA	1	Precision Plumbing Products	SC-750B	DOMESTIC COLD WATER	3/4" BRASS N.P.T., BARREL-FRABRICATED TYPE "L" COPPER. SIZE PER PDI STANDARD WH201-06. PROVIDE ACCESS PANEL.

TRAP PRIMER SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	REMARKS
TP	1	Precision Plumbing Products	PTS-12	PRIME-TIME ELECTRONIC TRAP PRIMING ASSEMBLY, SURFACE MOUNT. INCLUDES AN 12 OPENING MANIFOLD CAPABLE OF PRIMING 12 SEPARATE DRAINS, ATMOSPHERIC VACUUM BREAKER, 3/4" INLET CONNECTION. ELECTRICAL: 120V/1PH/60HZ, 6 WATTS.

WATER METER SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	REMARKS
WM	1	MEASUREMENT CONTROL SYSTEMS	2"	WATER	2" BRONZE MULTI-JET WATER METER WITH PULSE OUTPUT

BACKFLOW PREVENTER SCHEDULE

DESIGNATION MARK	DESIGNATION ID #	MANUFACTURER	MODEL	SERVICE	REMARKS
BFP	1	ZURN	375DA - 2	DOMESTIC COLD WATER	2" REDUCED PRESSURE DETECTOR ASSEMBLY. DUCTILE IRON ASTM A 536 MAIN VALVE BODY & ACCESS COVERS. STAINLESS STEEL INTERNALS & FASTENERS. ASSE LISTED 1047, UL CLASSIFIED, AWWA COMPLIANT, C-UL CLASSIFIED & FM APPROVED.
BFP	2	ZURN	375DA - 2	DOMESTIC COLD WATER	2" REDUCED PRESSURE DETECTOR ASSEMBLY. DUCTILE IRON ASTM A 536 MAIN VALVE BODY & ACCESS COVERS. STAINLESS STEEL INTERNALS & FASTENERS. ASSE LISTED 1047, UL CLASSIFIED, AWWA COMPLIANT, C-UL CLASSIFIED & FM APPROVED.

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING SCHEDULES

Sheet No.
P-003

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PLUMBING WASTE & VENT SIZING CHART

PIPE SIZING PER CPC 2022 703.2		
PIPE SIZE	MAX. UNIT (WASTE)	MAX. UNIT (VENT)
1 1/2"	1 (1/4" PER FT)	8
2"	8 (1/4" PER FT)	24
3"	35 (1/4" PER FT)	84
4"	172 (1/8" PER FT)	256
5"	342 (1/8" PER FT)	600
CLEANOUT SIZING PER CPC 2022, TABLE 707.1		
PIPE SIZE	SIZE OF CLEANOUT	THREADS PER INCH
1 1/2"	1 1/2"	11 1/2"
2"	1 1/2"	11 1/2"
3"	2 1/2"	8
4" & LARGER	3 1/2"	8

NEW PLUMBING FIXTURE UNIT COUNT

TAG	FIXTURE DESCRIPTION	QTY	WATER FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL FIXTURE UNITS		
					COLD WATER	HOT WATER	DRAIN
HB	HOSE BIBB	1	2.5	-	2.5	-	-
HB	HOSE BIBB ADDITIONAL	5	1	-	5	-	-
LAV	LAVATORY	1	1	1	1	1	1
S	SINK	1	3	3	3	3	3
MS	MOP SINK	2	3	3	6	6	6
SH	SHOWER	1	2	2	2	2	2
WC	WATER CLOSET (FLUSH VALVE)	1	5	4	5	-	4
FD	FLOOR DRAIN	4	-	2	-	-	8
FS	4" FLOOR SINK	1	-	8	-	-	8
EEWS	EMERGENCY EYE WASH STATION	2	3	-	6	-	-
TOTAL FIXTURE UNITS COUNT					30.5	12	32

STORM DRAIN PIPE SIZNG

PIPE SIZING PER CPC TABLE 1103.2 (1/8" PER FOOT SLOPE)			
SIZE OF DRAIN	FLOW	MAXIMUM ALLOWABLE ROOF AREA (SQUARE FEET)	
INCH	GPM	1 IN/HR	2.0 IN/HR
3	34	3288	1644
4	78	7520	3760
5	139	13360	6680
6	222	21400	10700
8	478	46000	23000
10	860	82800	41400

HOT & COLD WATER PIPE SIZING (COPPER TYPE L)

PIPE SIZING BASED ON A MAXIMUM PRESSURE LOSS OF: 5 PSI/100 FT

PIPE SIZE	COLD WATER				HOT WATER			HOT WATER RETURN	
	FIXTURE UNIT (FLUSH TANK)	FIXTURE UNIT (FLUSH VALVE)	GPM	VELOCITY (FPS)	FIXTURE UNIT	GPM	VELOCITY (FPS)	GPM	VELOCITY (FPS)
1/2"	2	-	2.2	3	2	2.2	3	1.5	2
3/4"	7	-	6.5	4.3	7	6.5	4.3	3	2
1"	18	-	13	5	18	13	5	5	2
1 1/4"	36	6	23	6	27	19	5	8	2
1 1/2"	78	24	38	7	46	27	5	12	2
2"	218	100	67	7	122	48	5	20	2
2 1/2"	400	275	105	7	250	74	5	30	2
3"	620	520	148	7	400	105	5	45	2
4"	1440	1440	260	7	840	185	5		
6"	4500	4500	585	7	2860	415	5		

CAL GREEN CODDE NON-RESIDENTIAL MANDATORY MEASURES

PER SECTION 5.303.3.1 WATER CLOSETS, SECTION 5.303.3.2 URINALS, SECTION 5.303.3.3 SHOWERHEADS, SECTION 5.303.3.4.2 KITCHEN FAUCETS

FIXTURE TYPE	MAXIMUM FLOW RATE	MAXIMUM FLOW RATE @ 20% REDUCTION	SPECIFIED
WATER CLOSETS	1.28 GALLONS PER FLUSH	1.0 GALLONS PER FLUSH	1.28 GALLONS PER FLUSH
WALL-MOUNTED URINALS	0.125 GALLONS PER FLUSH	0.1 GALLONS PER FLUSH	0.125 GALLONS PER FLUSH
LAVATORY FAUCET	0.5 GPM AT 60 PSI	0.4 GPM AT 60 PSI	0.5 GPM AT 60 PSI
KITCHEN FAUCETS	1.8 GPM AT 60 PSI	1.4 GPM AT 60 PSI	1.8 GPM AT 60 PSI
SINGLE SHOWERHEAD OR HAND-HELD SHOWERHEAD	1.8 GPM AT 80 PSI	1.6 GPM AT 80 PSI	1.8 GPM AT 80 PSI

STORAGE TANK WATER HEATER SIZING

SYSTEM	DOMESTIC HOT WATER		
FIXTURE	QTY	DEMAND (GPH/FIXTURE)	TOTAL DEMAND
LAVATORY	1	12	12
SINK	1	20	20
SHOWER	1	30	30
MOP SINK	1	20	20
TOTAL DEMAND (GPH)			82
DEMAND FACTOR			40%
PROBABLE MAXIMUM DEMAND (GPH):			33
WATER HEATER EFFICIENCY			100%
ENTERING WATER TEMPERATURE			65
STORAGE WATER TEMPERATURE			140
TEMPERATURE RISE			75
WATER HEATER RQUIRED BTU/HR			25,490
WATER HEATER REQUIRED KW			7.5
STORAGE CAPACITY FACTOR			1
REQUIRED STORAGE CAPACITY @ 110°F (GAL)			40.8
REQUIRED STORAGE CAPACITY @ 140°F (GAL)			24.5

DOMESTIC HOT WATER CIRCULATION PUMP SIZING

SYSTEM	DOMESTIC HOT WATER	
SYMBOL	DESCRIPTION	INPUT
	APPROXIMATE HEAT LOSS FROM PIPING (BTUh/FT)	20.3
q	HEAT LOSS IN PIPING SYSTEM (BTUh)	10150
Cp	SPECIFIC HEAT OF WATER (1BTU/lb**F)	1
ΔT	ALLOWABLE TEMPERATURE DROP THRU SYSTEM (°F)	5
L	TOTAL PIPE HOT WATER SUPPLY & RETURN (FT)	500
Qp	PUMP CAPACITY (GPM)	4
	SAFTEY FACTOR (%)	10%
	TOTAL PUMP CAPACITY (GPM)	4

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING CALCULATIONS

Sheet No.
P-011

6/5/2026 1:40:38 PM
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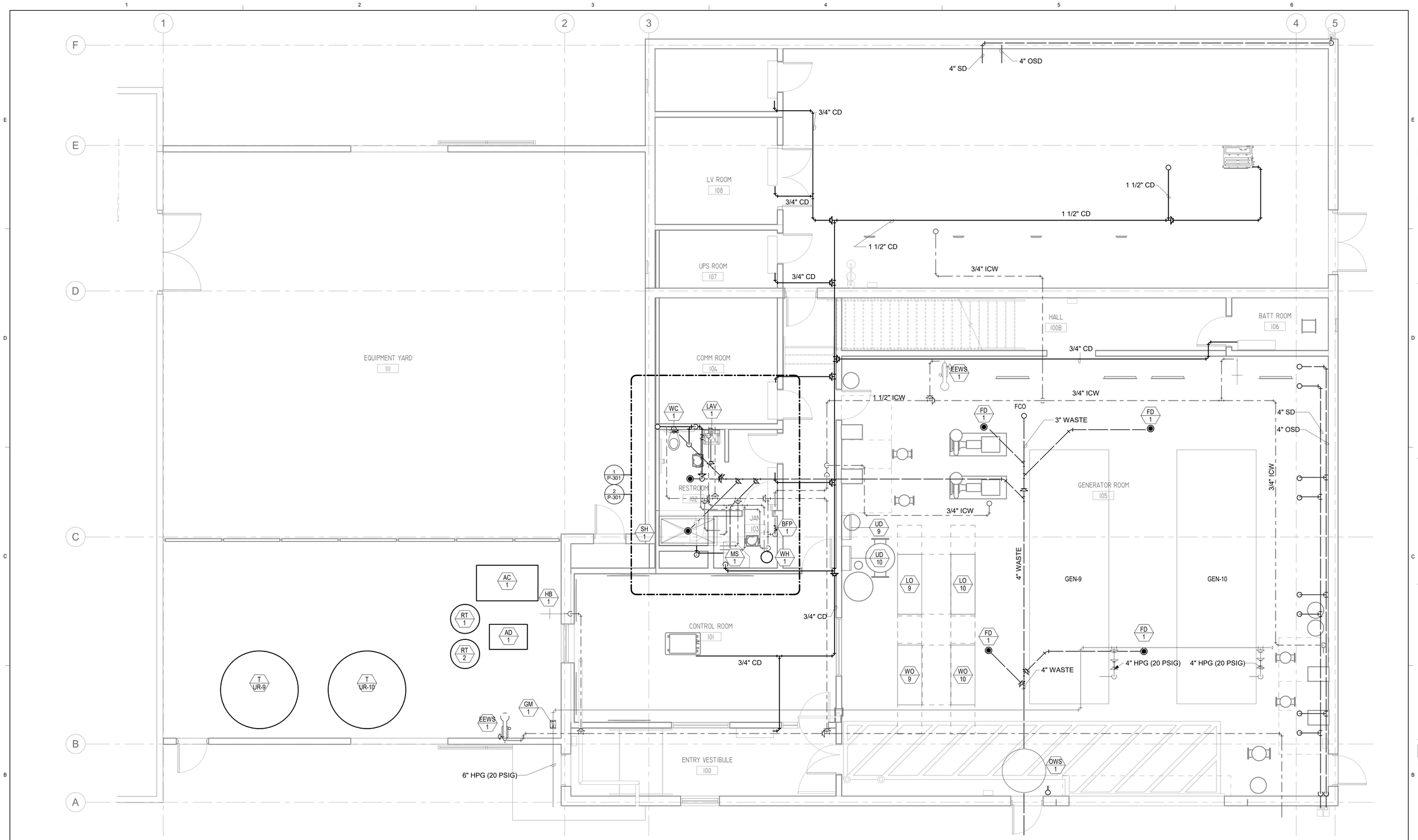

1 LEVEL 01 - PLUMBING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - NEW

1	FOR PIPE SUPPORT DETAILS SEE 6/P-501, 7/P-501, AND 8/P-501.
2	FOR PIPE PENETRATION THROUGH WALL DETAIL, SEE 2/P-501.
3	FOR WALL CLEAN OUT DETAIL, SEE 12/P-501.
4	FOR CLEANOUT TO SURFACE DETAIL, SEE 2/P-501.
5	FOR FLOOR DRAIN DETAIL, SEE 3/P-501.
6	FOR FLOOR SINK DETAIL, SEE 4/P-501.
7	FOR HOSE BIB DETAIL, SEE 5/P-501.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING PLAN - LEVEL 01

Sheet No.
P-101

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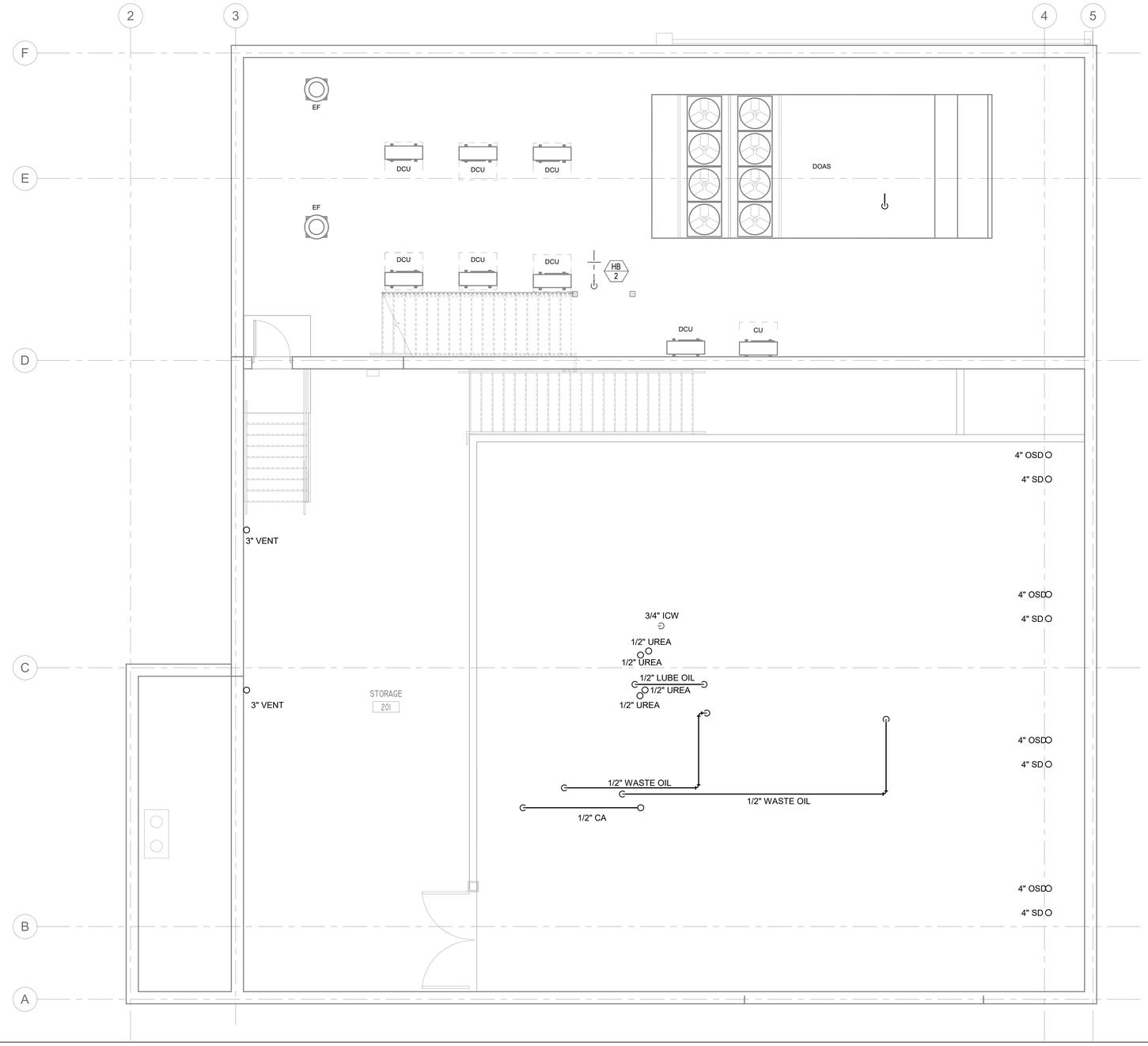

1 MEZZANINE - PLUMBING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - NEW

1	FOR PIPE SUPPORT DETAILS SEE 6/P-501, 7/P-501, AND 8/P-501.
2	FOR PIPE PENETRATION THROUGH WALL DETAIL, SEE 2/P-501.
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7	FOR HOSE BIB DETAIL, SEE 5/P-501.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING PLAN - MEZZANINE

Sheet No.
P-102

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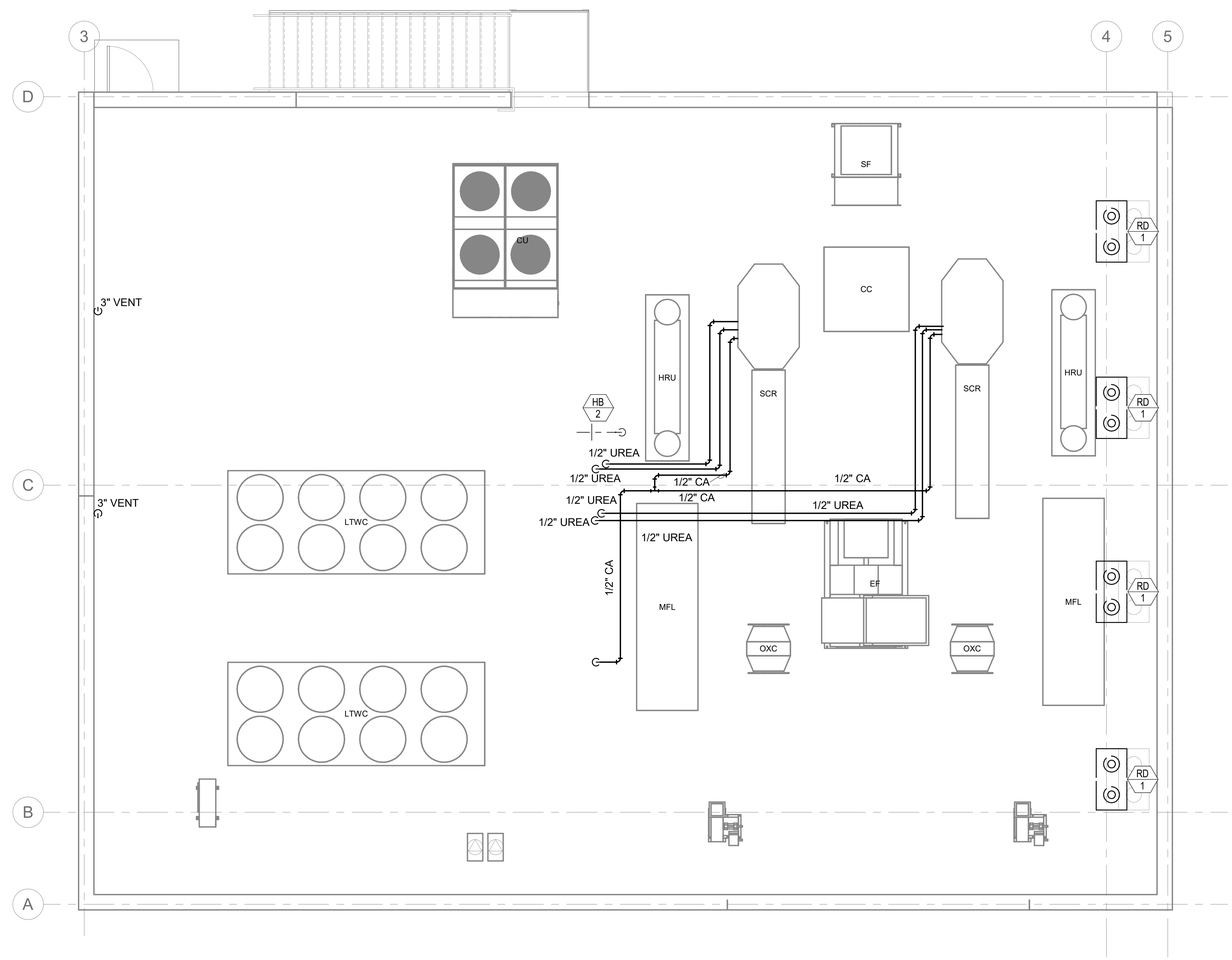

1 ROOF - PLUMBING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - NEW

1	FOR PIPE SUPPORT DETAILS SEE 6/P-501, 7/P-501, AND 8/P-501.
2	FOR PIPE PENETRATION THROUGH WALL DETAIL, SEE 2/P-501.
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6	FOR FLOOR SINK DETAIL, SEE 4/P-501.
7	FOR HOSE BIB DETAIL, SEE 5/P-501.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING PLAN - ROOF

Sheet No.
P-103

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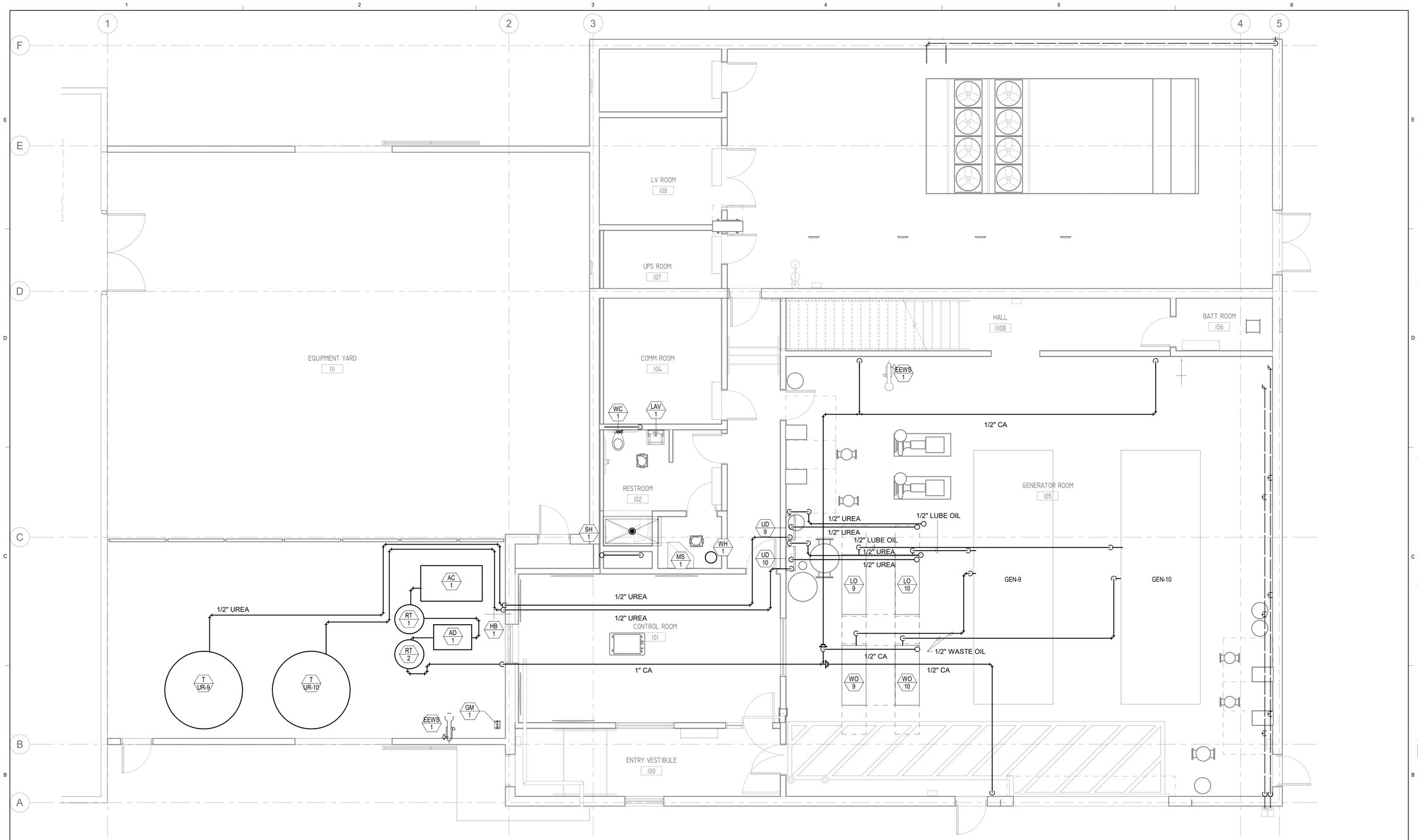

1 LEVEL 01 - PLUMBING FLOOR PLAN Copy 1

1/4" = 1'-0"

GENERAL NOTES - NEW

1	FOR PIPE SUPPORT DETAILS SEE 6/P-501, 7/P-501, AND 8/P-501.
2	FOR PIPE PENETRATION THROUGH WALL DETAIL, SEE 2/P-501.
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7	FOR HOSE BIB DETAIL, SEE 5/P-501.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING PLAN - PROCESS PIPING - LEVEL 01

Sheet No.
P-201

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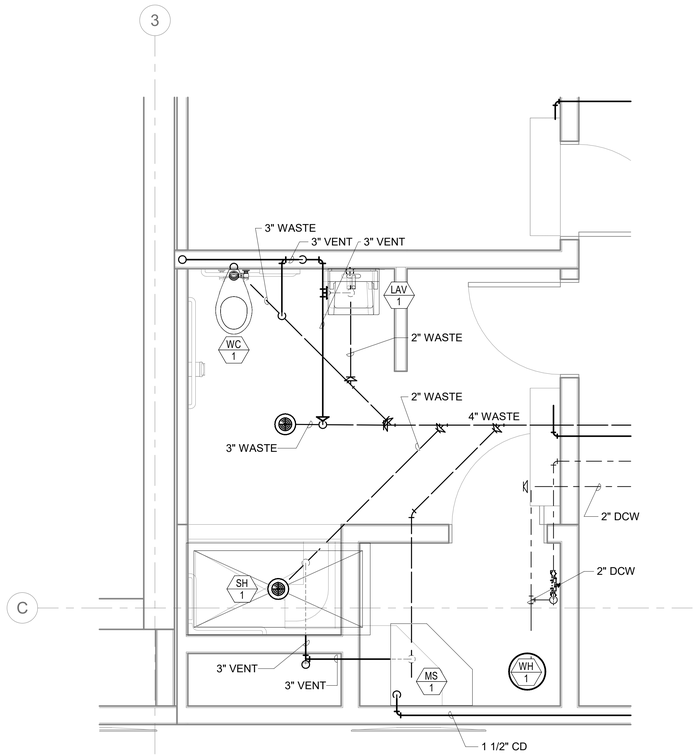
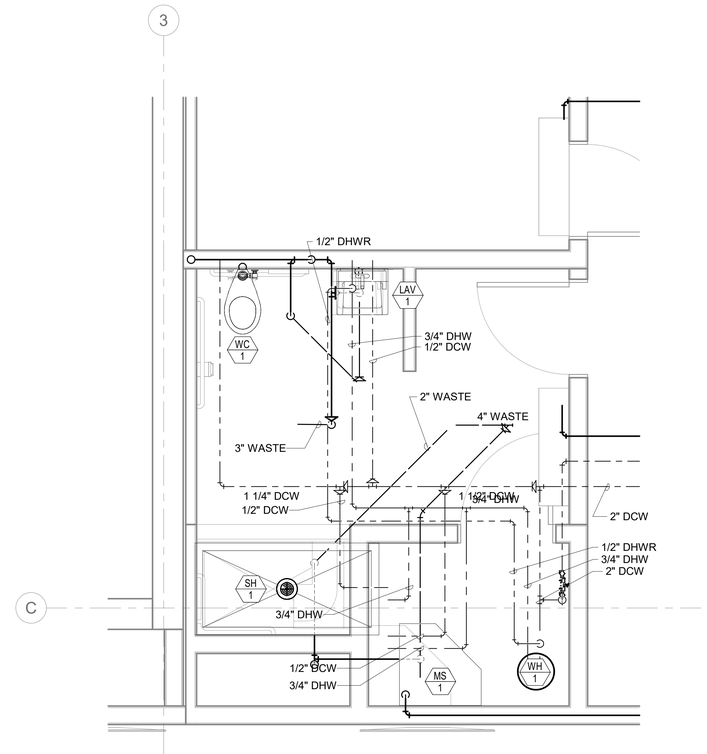


1 LEVEL 01 - ENLARGED PLUMBING FLOOR PLAN W/V

1 / P-101 | 1/2" = 1'-0"



2 ENLARGED PLUMBING FLOOR PLAN - CW/HW

1 / P-101 | 1/2" = 1'-0"

GENERAL NOTES - NEW

1	FOR PIPE SUPPORT DETAILS SEE 6/P-501, 7/P-501, AND 8/P-501.
2	FOR PIPE PENETRATION THROUGH WALL DETAIL, SEE 2/P-501.
3	FOR WALL CLEAN OUT DETAIL, SEE 12/P-501.
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7	FOR HOSE BIB DETAIL, SEE 5/P-501.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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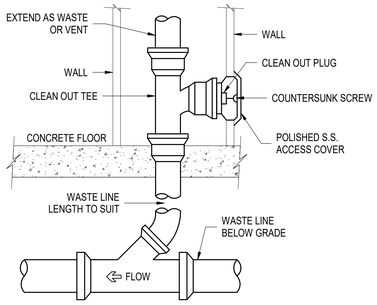
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

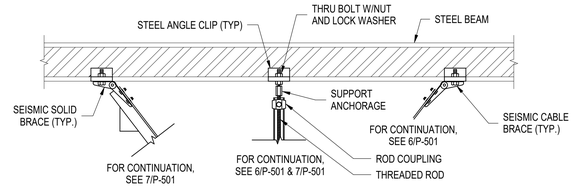
PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING PLAN - ENLARGED

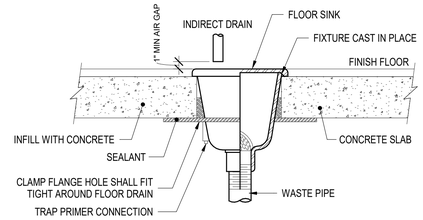
Sheet No.
P-301



12 WALL CLEAN OUT DETAIL



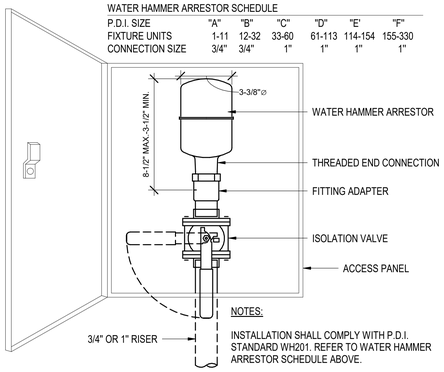
8 STEEL BEAM STRUCTURE MOUNTING DETAIL



4 FLOOR SINK DETAIL

WATER HAMMER ARRESTOR SCHEDULE

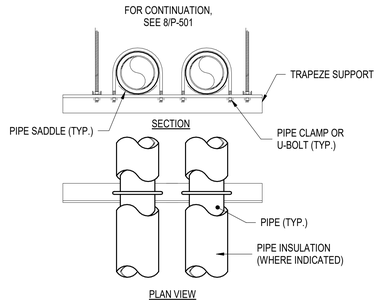
P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	3/4"	1"	1"	1"	1"



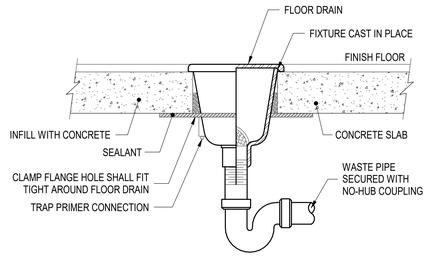
NOTES:

INSTALLATION SHALL COMPLY WITH P.D.I. STANDARD WH201. REFER TO WATER HAMMER ARRESTOR SCHEDULE ABOVE.

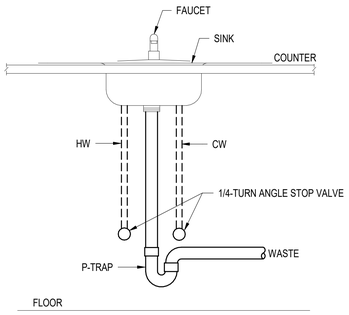
11 WATER HAMMER ARRESTOR DETAIL



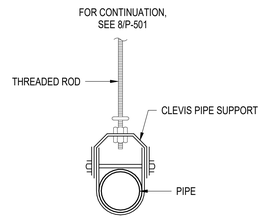
7 TRAPEZE PIPE SUPPORT DETAIL



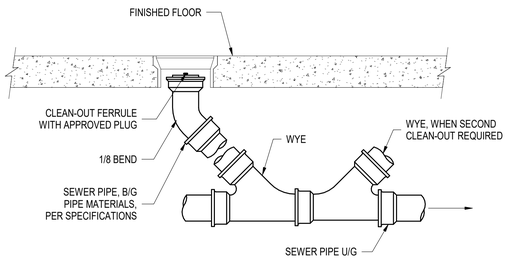
3 FLOOR DRAIN DETAIL



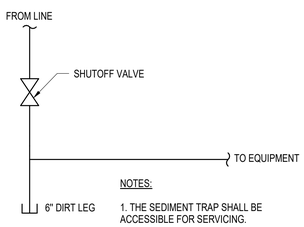
10 SINGLE COMPARTMENT SINK DETAIL



6 CLEVIS PIPE SUPPORT DETAIL



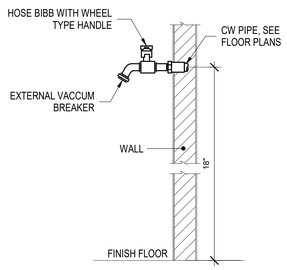
2 CLEAN OUT TO SURFACE DETAIL



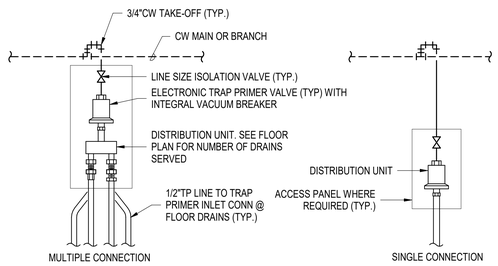
NOTES:

1. THE SEDIMENT TRAP SHALL BE ACCESSIBLE FOR SERVICING.

9 GAS CONNECTION WITH DIRT LEG DETAIL



5 HOSE BIBB SUPPORT DETAIL



1 TRAP PRIMER DETAIL

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49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80% 2026.03.19

Sheet Title

PLUMBING DETAILS

Sheet No.

P-501

6/5/2026 1:40:45 PM
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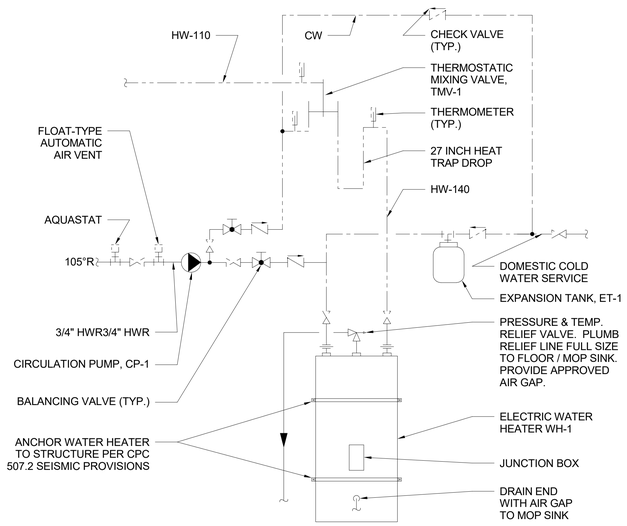
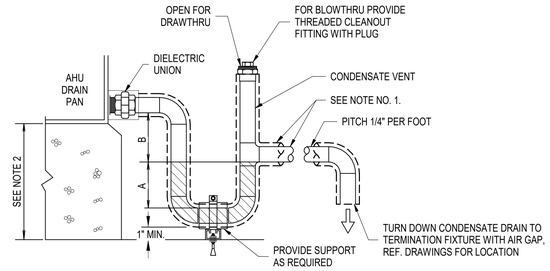


5 ELECTRIC WATER HEATER DETAIL

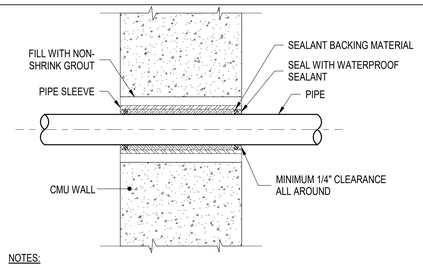


BLOWTHRU:
A = GREATER OF 4" OR 1/2" PLUS AHU TOTAL PRESSURE IN INCHES-WC.

DRAWTHRU:
B = GREATER OF 2" OR 1/2" PLUS AHU TOTAL PRESSURE IN INCHES-WC.

NOTES:
1. REF. PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPE SIZE, (1" MIN. AT EACH AHU DRAIN CONNECTION POINT). REF. SPECIFICATIONS FOR PIPE & INSULATION MATERIAL REQUIREMENTS.
2. PAD OR STANCHION HEIGHT DETERMINED BY SPACE REQUIRED TO INSTALL TRAP.

3 CONDENSATE DRAIN DETAIL

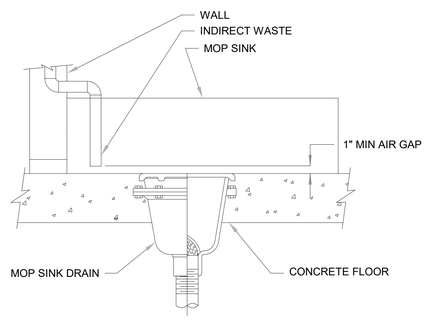


NOTES:

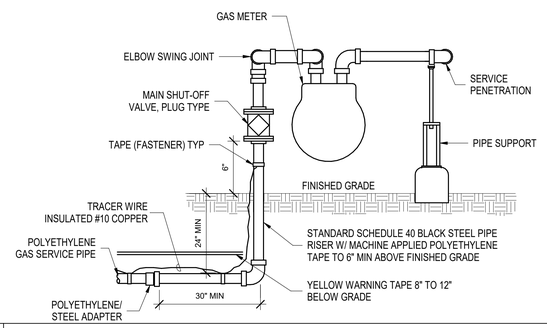
1. INSULATION SHALL BE CONTINUOUS THROUGH SLEEVES, WALL AND CEILING OPENINGS, EXCEPT AT FIRE DAMPERS IN DUCT SYSTEMS.

2. WHERE PENETRATING EXTERIOR WALLS, EXTEND THE METAL JACKETS THROUGH THE SLEEVE TO A POINT 2 INCHES BEYOND THE INTERIOR SURFACE OF THE WALL.

2 EXTERIOR WALL PIPE PENETRATION DETAIL



4 CONDENSATE INDIRECT WASTE TO MOP SINK DETAIL



1 GAS METER DETAIL

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STATE OF CALIFORNIA

BB ELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
PLUMBING DETAILS

Sheet No.
P-502

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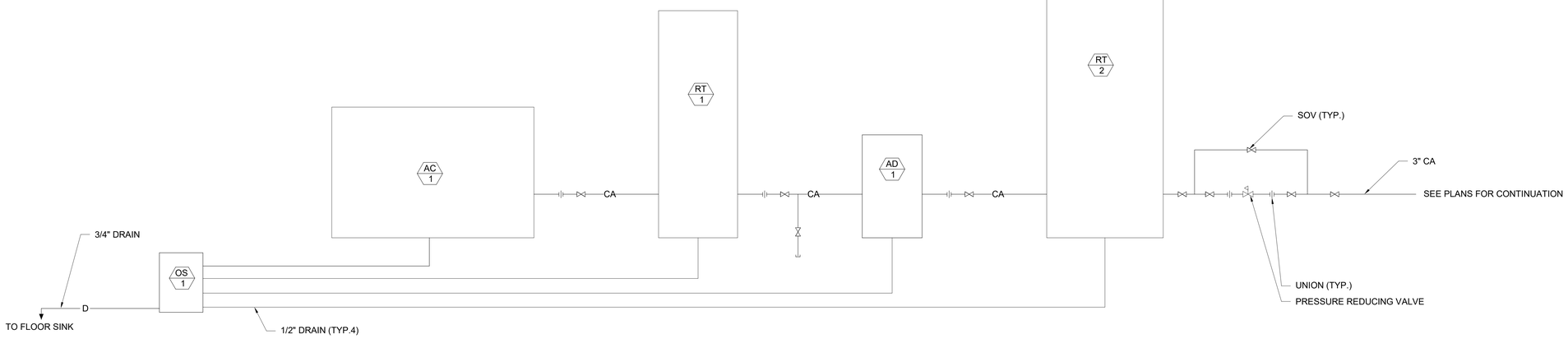
COMPRESSED AIR CALCULATION

SYSTEM PRESSURE			150 PSIG
TOTAL DEVELOPED LENGTH			400 FT
TOTAL FRICTION HEAD LOSS			1.2 PSI
	NUMBER OF OUTLETS	LOAD (CFM)	TOTAL LOAD (CFM)
TOOLS	8	50	400
TOTAL SYSTEM LOAD			400 CFM



1 PLUMBING OIL-FLOODED AIR COMPRESSOR PIPING DIAGRAM

SCALE: NTS

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

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2026.03.19

Sheet Title
PLUMBING AIR COMPRESSOR PIPING DIAGRAM

Sheet No.
P-601

GENERAL NOTES

A. DO NOT SCALE DRAWINGS: ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER OF RECORD SHALL BE NOTIFIED FOR CLARIFICATION.

B. CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER IN THAT ALL APPARATUS, MATERIALS, EQUIPMENT AND METHODS OF INSTALLATION OUTLINED IN THE DRAWINGS AND/OR SPECIFIED HEREIN SHALL BE CONSIDERED ESSENTIAL TO THE CONTRACT. SHOULD ANY CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS EXIST, THE MORE STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO CONSTRUCTION.

C. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THESE DRAWINGS IS SHOWN IN APPROXIMATE LOCATION(S). THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING EQUIPMENT LOCATIONS, POINTS OF CONNECTIONS AND STRUCTURAL MEMBERS, PRIOR TO INSTALLATION. NOTIFY THE CONSTRUCTION COORDINATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO COMMENCING WORK.

D. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, DUCT AND PIPE LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND ALL OTHER TRADES.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF EXISTING SURFACES, EQUIPMENT, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND/OR NEW WORK.

F. WORK SHALL BE IN ACCORDANCE WITH CITY & STATES CODES AND ALL OTHER APPLICABLE CODES AND STANDARDS.

G. THE LOCATION OF DUCTWORK AND ALL OTHER EQUIPMENT SHOWN ON THE DRAWINGS IS APPROXIMATE. EXACT LOCATION OF SAME SHALL BE DETERMINED BY THE CONTRACTOR.

H. DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY SMACNA. PROVIDE RECTANGULAR DUCTS OF GALVANIZED STEEL AND PREFABRICATED SPIRAL LOCK-SEAM DUCTS AND FITTINGS. ALL DUCTS SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS. REVIEW PLANS CLOSELY FOR LINED DUCTWORK.

I. DUCT CONSTRUCTION PRESSURE CLASSIFICATION SHALL BE OF A HIGHER PRESSURIZATION CLASS THAN THE SYSTEM FOR WHICH IT IS DESIGNED.

J. SQUARE ELBOWS SHALL HAVE DOUBLE WALL TURNING VANES CONSTRUCTED OF G60 GALVANIZED STEEL WITH MINIMUM 3" RADIUS.

K. ROUND DUCT FITTINGS SHALL A HAVE CENTERLINE RADIUS OF 1.5 TIMES THE DUCT DIAMETER.

L. MISCELLANEOUS METAL, ANGLES, BRACING AND/OR SUPPORTS EXPOSED TO THE WEATHER SHALL BE OF G90 GALVANIZED STEEL. WHERE WELDING OCCURS, ONE (1) COAT OF RUST INHIBITING PAINT AND ONE (1) COAT OF PRIMER SHALL COVER THE WELDED AREA.

M. BRANCH DUCTS TO DIFFUSERS, REGISTERS AND GRILLES SHALL HAVE MANUAL VOLUME DAMPERS. PROVIDE WITH 3/8" MINIMUM DIAMETER CONTROL SHAFT, QUADRANT LOCK WITH POSITION INDICATOR AND 2" QUADRANT LOCK STAND-OFF. DAMPERS WHICH ARE INACCESSIBLE SHALL BE PROVIDED WITH REMOTE OPERATORS WITH RJ-11 LOW-VOLTAGE WIRE, QUICK CONNECT FITTING AND FLUSH MOUNTED PLATE. RUSKIN MODEL ZPD25 OR EQUIVALENT.

N. DAMPERS AND BALANCING VALVES SHALL BE READILY ACCESSIBLE FOR TESTING AND MAINTENANCE.

O. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD AS DEFINED IN THE LATEST EDITION OF EES.

P. DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3 AND 120.4 EES, LATEST EDITION, CHAPTER 6 OF CMC, LATEST EDITION, AND AS STATED HEREIN.

Q. DUCTWORK AND PIPING SHALL BE INSULATED. INSULATION SHALL BE U.L. AND SFM (STATE FIRE MARSHAL) APPROVED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 & A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION FACING MATERIALS, TAPES, AND ADHESIVES.

R. SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 3" THICK FIBERGLASS INSULATION WITH A MINIMUM INSTALLED R-VALUE OF 8.0 WITH AN FSK (FOIL SCRIM KRAFT) EXTERIOR.

S. FLEXIBLE DUCTWORK SHALL BE USED AT DUCT RUN-OUTS FOR CONNECTION TO AIR DEVICES ONLY. CONSTRUCTION SHALL BE WITH AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER. INSULATION SHALL BE 3" THICK FIBERGLASS WITH A MINIMUM INSTALLED R-VALUE OF 8.0. THE INTERIOR SHALL BE AN ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS SMOOTH NON-PERFORATED VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCT SHALL BE SUPPORTED SUCH THAT NO PORTION OF THE DUCT WILL SAG. SUPPORTS SHALL BE MADE WITH A 2" WIDE 28 GAGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE IN COMPLETE CONFORMANCE WITH THE LATEST EDITION OF THE CMC. MAXIMUM FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 FEET.

T. PROVIDE NEOPRENE (SPECIFICATION GRADE) FLEXIBLE CONNECTORS AT THE INLET AND OUTLET OF ALL FANS.

U. DUCT JOINTS AND SEAMS SHALL BE SEALED AIR TIGHT UNLESS NOTED OTHERWISE.

V. ADHESIVES AND SEALANTS SHALL MEET THE REQUIREMENTS OF THE SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT, RULE #67. AEROSOL ADHESIVES SHALL MEET GREEN SEAL STANDARD FOR COMMERCIAL ADHESIVES GS-36 REQUIREMENTS.

W. PENETRATIONS IN FIRE-RESISTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, INTEGRITY AND PREVENTING THE MOVEMENT OF FLAMES AND/OR SMOKE THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E-814 OR U.L. STANDARD 1479 (UBC SECTIONS 4304 [e], 4305[a] AND 4305[b]).

X. DIFFUSER, GRILLE, AND REGISTER LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS. DISCREPANCIES BETWEEN ARCHITECTURAL AND MECHANICAL PLANS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO START OF CONSTRUCTION.

Y. ROOM THERMOSTATS (OR SENSORS) SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55°F TO 85°F, AND BE CAPABLE OF OPERATING THE HEATING AND COOLING SYSTEMS AS INDICATED IN THE SEQUENCE OF OPERATIONS. THERMOSTATS (OR SENSORS) SHALL BE ADJUSTABLE TO PROVIDE FOR A 10° DIFFERENCE BETWEEN THE COOLING AND HEATING SET POINT FOR AUTOMATIC CHANGEOVER OPERATION AND PROVIDE CAPABILITY TO PREVENT COOLING BELOW 75°F AND HEATING ABOVE 70°F. THERMOSTATS (OR SENSORS) SHALL MEET ADA REQUIREMENTS.

Z. HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 EES LATEST EDITION.

AA. ALL HVAC EQUIPMENT AND APPLIANCES SHELL MEET THE REQUIREMENTS PER SECTION 110.1-110.3,110.5,120.1-120.4 EES, LATEST EDITION.

AB. REFRIGERANT PIPING SHALL BE CONSTRUCTED OF HARD DRAWN COPPER TYPE "ACR" PIPING WITH WROUGHT COPPER SOLDER FITTINGS.

AC. REFRIGERANT PIPING INSULATION SHALL BE CLOSED CELL FOAM INSULATION AS MANUFACTURED BY ARMACELL, MODEL: AP ARMAFLEX OR EQUIVALENT.

AD. PIPING WITH INSULATION EXPOSED TO WEATHER SHALL BE PROVIDED WITH AN ALUMINUM JACKET.

AE. CONDENSATE PIPING SHALL BE CONSTRUCTED OF COPPER TYPE "M" PIPING WITH WROUGHT COPPER SOLDER FITTINGS.

AF. CONDENSATE PIPING WITHIN THE BUILDING SHALL BE INSULATED WITH CLOSED CELL FOAM INSULATION AS MANUFACTURED BY ARMACELL, MODEL: AP ARMAFLEX OR EQUIVALENT.

AG. PIPING SUPPORTS SHALL BE REMANUFACTURED FOR THE SPECIFIC USE IT IS INTENDED. WOOD SUPPORTS WILL NOT BE ACCEPTABLE.

AH. PROVIDE TESTING, ADJUSTING & BALANCING OF ALL SCHEDULED SYSTEMS. PROVISION OF ALTERNATE SHIVS, BELTS AND PULLEYS TO ATTAIN REQUIRED AIR FLOWS SHALL BE AT THE CONTRACTORS EXPENSE. MOTOR AMPERAGE SHALL NOT EXCEED THE RATED FULL LOAD AMPS PER NAME PLATE DATA. SUPPLY AIR AND RETURN AIR FLOWS SHALL BE WITHIN +/- 10% OF VALUES SCHEDULED AND INDICATED PER PLAN. OUTSIDE AIR AND EXHAUST AIR FLOWS SHALL BE WITHIN +10% OF VALUES SCHEDULED AND INDICATED PER PLAN. TAB REPORT SHALL BE PROVIDED BY A THIRD PARTY TAB AGENT CERTIFIED BY THE AABC OR NEBB.

AI. OUTSIDE AIR INTAKES SHALL BE LOCATED MINIMUM 10'-0" FROM EXHAUST AIR DISCHARGE AND VENT LOCATIONS.

AJ. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE DURING PERIODS OF NON-USE OF THE AREAS SERVED BY THE EQUIPMENT. DAMPERS SHALL HAVE A CLASS 1A LEAKAGE RATING.

AK. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH A DUCT MOUNTED SMOKE DETECTOR AND AUTOMATIC SHUTOFF. WHEN PRODUCTS OF COMBUSTION (SMOKE) ARE DETECTED, THE AIR MOVING EQUIPMENT SHALL BE STOPPED AND A SIGNAL SENT TO THE FIRE ALARM SYSTEM.

AL. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR AND PROVIDED AND WIRED BY THE FIRE ALARM CONTRACTOR. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTION. DETECTOR SHALL BE RATED FOR 100 - 4,000 FPM AIR VELOCITY, -4 - 158 °F TEMPERATURE, AND 0 - 95 % NON-CONDENSING HUMIDITY WITH UL 268 LISTING AND REMOTE TESTING CAPABILITY.

AM. AIR FILTERS SHALL BE SFM (SHALL BE STATE MARSHAL) APPROVED AND UL 900 LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. MINIMUM FILTER EFFICIENCY SHALL BE MERV 13. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT AS DEFINED IN CMC, LATEST EDITION.

AN. SEISMIC REQUIREMENTS:

EQUIPMENT SHALL BE BRACED AND ANCHORED TO WITHSTAND A LATERAL FORCE CALCULATED PER SECTION 1615A 1.11 OF THE LATEST EDITION OF THE CBC. ALL DUCTWORK AND PIPING SHALL BE BRACED AND ANCHORED PER 1615A 1.2.1 OF THE LATEST EDITION OF THE CBC.

SEISMIC SUPPORTS AND BRACING ARE REQUIRED FOR DUCTWORK AND PIPING WHERE DUCTS ARE SUSPENDED FROM HANGERS MORE THAN 12 INCHES IN LENGTH OR IF DUCTS HAVE A CROSS SECTIONAL AREA OF 6 SQUARE FEET OR GREATER PER ASCE 7 SECTION 13.6.7.

COMPONENTS THAT ARE INSTALLED INLINE WITH A DUCT SYSTEM AND HAVE AN OPERATING WEIGHT GREATER THAN 75 LBS SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM PER ASCE 7 SECTION 13.6.7.

AO. MOUNT OVERHEAD UTILITIES AND OTHER FIXTURES WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING NETWORKS THAT COLLECTIVELY EXCEED THAT WEIGHT) TO MINIMIZE THE LIKELIHOOD THAT THEY WILL FALL AND INJURE BUILDING OCCUPANTS. EQUIPMENT MOUNTINGS SHALL BE PRE-ENGINEERED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY HORIZONTAL DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE VERTICAL DIRECTION. THIS STANDARD DOES NOT PRECLUDE THE NEED TO DESIGN EQUIPMENT MOUNTINGS FOR FORCES REQUIRED BY OTHER CRITERIA SUCH AS SEISMIC STANDARDS.

AP. PROVIDE SUBMITTALS FOR REVIEW OF ALL NEW SCHEDULED EQUIPMENT, DUCTWORK, PIPING, INSULATION, AND SYSTEM APPURTENANCES INCLUDING INSTALLATION SHOP DRAWINGS. ADDITIONAL SUBMITTALS SHALL BE PROVIDED FOR TAB/DALT QUALIFICATIONS AND FORMS TO BE USED. SUBMITTALS SHALL BE PROVIDED TWO (2) WEEKS PRIOR TO CONSTRUCTION, BOUND WITH COVER SHEET AND SHEET INDEX INDICATING EACH SUBMITTAL FOR REVIEW. SUBMITTALS SHALL BE ROUTED THROUGH THE GENERAL CONTRACTOR TO THE ARCHITECT TO THE EOR (ENGINEER OF RECORD).

LEGEND

SYMBOL	
	SUPPLY AIR/OUTSIDE AIR DUCT UP
	RETURN AIR DUCT UP
	EXHAUST AIR DUCT UP
	SUPPLY AIR/OUTSIDE AIR DUCT DN
	RETURN AIR DUCT DN
	EXHAUST AIR DUCT DN
	ROUND DUCT UP
	ROUND DUCT DN
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	DUCT W/TURNING VANES
	SUPPLY/RETURN AIR
	EXHAUST/OUTSIDE AIR
	MANUAL BALANCING DAMPER
	FIRE DAMPER
	FLEXIBLE DUCT
	NEW PIPING OR DUCTWORK
	EXISTING PIPING OR DUCTWORK
	PIPING OR DUCTWORK TO BE DEMOLISHED
SD	DUCT MOUNTED SMOKE DETECTOR
CO2	CARBON DIOXIDE SENSOR
SP	STATIC PRESSURE
U/C	UNDERCUT
D/L	DOOR LOUVER
S	TEMPERATURE SENSOR
N2	NITROGEN SENSOR
O2	OXYGEN SENSOR
H2	HYDROGEN SENSOR
H	HUMIDISTAT
T	THERMOSTAT
	POINT OF CONNECT
	POINT OF DISCONNECT
	CONTINUATION
	CAP
X / XX	TAG TAG NUMBER

ENERGY CODE NOTES

A. CERTIFICATE OF ACCEPTANCE (MECH-1-A) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

B. THIS PROJECT SHALL BE COMMISSIONED IN ACCORDANCE WITH 2016 CALIFORNIA ENERGY CODE SECTION 120.8 AND ALL RELEVANT CODES REFERENCED IN THIS SECTION. ALL COMMISSIONING TEAM MEMBERS (DESIGN AND CONSTRUCTION TEAMS) SHALL PROVIDE ALL DOCUMENTATION AND SUPPORT NEEDED TO SUCCESSFULLY CARRY OUT COMMISSIONING SERVICES BY A THIRD PARTY COMMISSIONING AGENT.

CALGREEN NOTES

A. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION OPENINGS SHALL BE COVERED WITH PLASTIC DURING CONSTRUCTION.

B. DUCT SEALANT SHALL BE WATER BASED WITH A MAXIMUM VOC LIMIT OF 250g/L.

C. PROVIDE DUCT AIR LEAKAGE TESTING WITH LEAKAGE RATE NOT TO EXCEED 6% OF TOTAL AIR FLOW FOR SPACE CONDITIONING SYSTEM DUCTWORK.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AABC	AMERICAN AIR BALANCE COUNCIL	DIA	DIAMETER	FD	FIRE DAMPER	LRA	LOCKED ROTOR AMPS	N.I.C.	NOT IN CONTRACT AREA	SPECS	SPECIFICATIONS
ABV	ABBREVIATION	DN	DOWN	FLA	FULL LOAD AMPS	LVG	LEAVING	NO.	NUMBER	SQ	SQUARE
ADA	AMERICANS WITH DISABILITIES ACT	DX	DIRECT EXPANSION	FPM	FEET PER MINUTE	LWB	LEAVING WET BULB	OA	OUTSIDE AIR	STL	STEEL
AFF	ABOVE FINISHED FLOOR	EA	EXHAUST AIR	FT	FOOT/FEET	LWT	LEAVING WATER TEMPERATURE	PH	PHASE	STRUC	STRUCTURAL
APPROX	APPROXIMATE	EAT	ENTERING AIR TEMPERATURE	GA	GAGE/GAUGE	MAX	MAXIMUM	QTY	QUANTITY	TAB	TEST AND BALANCE
ARCH	ARCHITECT(URAL)	EDB	ENTERING DRY BULB	GALV	GALVANIZED	MBH	1,000 BTUH	RA	RETURN AIR	T'STAT	THERMOSTAT
BD	BACKDRAFT DAMPER	EES	ENERGY EFFICIENCY STANDARD	g/L	GRAMS / LITRE	MCA	MINIMUM CIRCUIT AMPACITY	REQ'D	REQUIRED	TXV	THERMAL EXPANSION VALVE
BLDG	BUILDING	EF	EXHAUST FAN	HP	HORSE POWER	MECH	MECHANICAL	RLA	RATED LOAD AMPS	TYP	TYPICAL
BTU/H	BRITISH THERMAL UNITS PER HOUR	EFF	EFFICIENCY	HVAC	HEATING, VENTILATION, AIR CONDITIONING	MERV	MINIMUM EFFICIENCY REPORTING VALUE	RM	ROOM	U.L.	UNDERWRITERS LABORATORY
CBC	CALIFORNIA BUILDING CODE	ELEC	ELECTRICAL	Hz	HERTZ	MFR	MANUFACTURER	RPM	REVOLUTIONS PER MINUTE	UON	UNLESS OTHERWISE NOTED
CD	CONDENSATE DRAIN	ENT	ENTERING	IN.	INCH	MIN	MINIMUM	SA	SUPPLY AIR	UTR	UP TO ROOF
CFM/ft^2	CUBIC FEET PER MINUTE	EOR	ENGINEER OF RECORD	KW	KILOWATT	MOCP	MAXIMUM OVER CURRENT PROTECTION	SF	SUPPLY FAN	VOC	VOLATILE ORGANIC COMPOUND
CMC	CALIFORNIA MECHANICAL CODE	ESP	EXTERNAL STATIC PRESSURE	LAT	LEAVING AIR TEMPERATURE	MTD	MOUNTED	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.	V	VOLTAGE
CU	CONDENSING UNIT	EWB	ENTERING WET BULB	LBS	POUNDS	MVD	MANUAL VOLUME DAMPER			VIB	VIBRATION
DEMO	DEMOLISH	FC	FAN COIL	LDB	LEAVING DRY BULB	NEBB	NATIONAL ENVIRONMENTAL BALANCE BUREAU	SP	STATIC PRESSURE	W.C.	WATER COLUMN

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON
1	01.01.21	SHEET ISSUES/ REVISIONS

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL GENERAL NOTES AND ABBREVIATIONS

Sheet No.
M-001

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CONDENSING UNIT SCHEDULE

TAG	MARK	MANUFACTURER	MODEL	COOLING PERFORMANCE DATA: TOTAL CAPACITY (MBH)	SEER (EER)	AMBIENT dB (°F)	MAX AMBIENT (°F)	ELECTRICAL: UNIT POWER SUPPLY: MCA	MOCP	V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
DCU	1	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	2	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	3	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	4	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	5	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	6	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	7	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	8	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
DCU	9	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
CU	1	LG	PUZ-A24NHA7	24.0	16.7	95	120	17	27	208/1/60	200	
CU	2	AAON	CFA-040-D-A-3	490.1	9.2	95	120	80	90	460/3/60	3,500	

DIRECT EXPANSION (DX) FAN COIL UNIT SCHEDULE

TAG	MARK	MANUFACTURER	MODEL	SUPPLY FAN: MAX AIR FLOW (CFM)	ESP (IN. W.C.)	COOLING PERFORMANCE DATA: TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT dB/wB (°F)	LAT dB/wB (°F)	OPER. WEIGHT (LBS)	ELECTRICAL: POWER (W)	FLA	V/PH/Hz	REMARKS
DFC	1	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	2	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	3	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	4	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	5	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	6	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	7	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	8	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
DFC	9	Mitsubishi Electric Corporation	PKA-AL24NL	650	0.01	24.0	18.0	80 / 67	55 / 54	75	69	1.0	208/1/60	
FC	1	Mitsubishi Electric Corporation	PEAD-A24AA9	650	0.5	24.0	18.0	80 / 67	55 / 54	100	121	1.8	208/1/60	

DIRECT EXPANSION (DX) COOLING COIL UNIT SCHEDULE

TAG	MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	ESP (IN. W.C.)	COOLING PERFORMANCE DATA: TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT dB/wB (°F)	LAT dB/wB (°F)	OPER. WEIGHT (LBS)	REMARKS
CC	1	RAE CORP	58D66X66.5	12,734	0.12	447.3	447.3	110 / 71	78 / 61	300	

DEDICATED OUTSIDE AIR SYSTEM (DOAS) SCHEDULE

TAG	MARK	MANUFACTURER	MODEL	SUPPLY FAN: MAX AIR FLOW (CFM)	ESP (IN. W.C.)	MIN OUTSIDE AIR FLOW (CFM)	COOLING PERFORMANE DATA: TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	IEER (EER)	EAT dB/wB (°F)	LAT dB/wB (°F)	AMBIENT dB/wB (°F)	ELECTRICAL: SUPPLY FAN: BHP/HP	FLA	COND. FAN: NO.	FLA	COMPRESSOR: NO.	RLA	UNIT POWER SUPPLY: MCA	MOCP	V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
DOAS	1	AAON	RNA-120-E-0-3	38,500	2.5	38,500	1,515.9	1,515.9	17.7	110 / 70.2	74 / 58.2	110 / 70.2	(2) 25	(2) 34	8	3.6	4	56 , 56 , 39.7 , 50.6	314	350	460/3/60	17,000	

SUPPLY AND EXHAUST FAN

TAG	MARK	MANUFACTURER	MODEL	TYPE	AREA SERVED	PERFORMANCE DATA: MAX AIR FLOW (CFM)	ESP (IN. W.C.)	DRIVE	ELECTRICAL: MOTOR (BHP)	V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
DF	9	AMERICAN FAN	BC-5-08-24A	BLOWER	SCR	2,000	4.0	DIRECT	15.0	460/3/60	150	
DF	10	AMERICAN FAN	BC-5-08-24A	BLOWER	SCR	2,000	4.0	DIRECT	15.0	460/3/60	150	
EF	1	COOK	GC-148	CEILING	RESTROOM	100	0.5	DIRECT	43.2 (WATTS)	120/1/60	40	
EF	2	COOK	70 ACEB	DOWNBLAST	BATTERY	150	0.5	DIRECT	1/6	120/1/60	50	
EF	3	COOK	445 - CPS-A	UTILITY	GENERATOR ROOM	38,500	1.0	BELT	20	460/3/60	2,500	
EF	4	COOK	GC-148	CEILING	JANITOR CLOSET	50	0.5	DIRECT	31.1 (WATTS)	120/1/60	40	
EF	5	COOK	70 ACEB	DOWNBLAST	BATTERY	150	0.5	DIRECT	1/6	120/1/60	50	
EF	6	COOK	SQI-HP	INLINE	BATTERY	140	0.5	DIRECT	1/6	120/1/60	75	
SF	1	COOK	AFBV-C	INLINE	GENERATOR	12,734	3.0	BELT	20	460/3/60	1,000	

PUMP SCHEDULE

TAG	MARK	MANUFACTURER	MODEL NAME	SERVICE	LOCATION	TYPE	PERFORMANCE DATA: DESIGN FLOW RATE (GPM)	DESIGN PD (FT HD)	PUMP SPEED (RPM)	PUMP EFF. (%)	ELECTRICAL: MOTOR BHP/HP	POWER V/PH/Hz	OPER. WEIGHT (LBS)	REMARKS
HTWP	15	BELL & GOSSETT	e-1510 4GC	HOT WATER	GENERATOR ROOM	END SUCTION	1,000	150	1,753	80.3	50.0	460/3/60	750	
HTWP	14	BELL & GOSSETT	e-1510 4GC	HOT WATER	GENERATOR ROOM	END SUCTION	1,000	150	1,753	80.3	50.0	460/3/60	750	
LTWP	1	BELL & GOSSETT	E-80 6x6x9.5B	GEN HW	ROOF	INLINE	490	40	1,552	75.1	5.0	460/3/60	350	
LTWP	2	BELL & GOSSETT	E-80 6x6x9.5B	GEN HW	ROOF	INLINE	490	40	1,552	75.1	5.0	460/3/60	350	

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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80% 2026.03.19

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
M-002

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EXPANSION TANK SCHEDULE

TAG	Comments	MANUFACTURER	MODEL	SERVICE	LOCATION	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAX. OPER. PRESSURE (PSI)	OPER. WEIGHT (LBS)	REMARKS
ET	HTW-1	Taco	CA1400-125	HHW	GENERATOR ROOM	370	370	125	2000	
ET	JW-10	Taco	CA90-125	JACKET WATER	GENERATOR ROOM	370	370	125	200	
ET	JW-9	Taco	CA90-125	JACKET WATER	GENERATOR ROOM	370	370	125	200	
ET	AC-10	Taco	CA90-125	AFTER COOLER	GENERATOR ROOM	370	370	125	200	
ET	AC-9	Taco	CA90-125	AFTER COOLER	GENERATOR ROOM	370	370	125	200	
ET	LTW-1	Taco	CA90-125	LOW TEMP WATER	GENERATOR ROOM	370	370	125	200	

CHEMICAL FEEDER SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	TANK VOLUME (GAL)	MAX. OPER. PRESSURE (PSI)	OPER. WEIGHT (LBS)	REMARKS
CF	NEPTUNE	DBF-10HP	HHW	1ST FLOOR	10	300	150	

MUFFLER SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	EQUIPMENT SERVED	OPER. WEIGHT (LBS)	REMARKS
MARK	ID #					
MFL	9	SUPER CRITICAL GRADE	48138VCS 22	GEN-9	3,500	
MFL	10	SUPER CRITICAL GRADE	48138VCS 22	GEN-10	3,500	

HEAT EXCHANGER SCHEDULE

DESIGNATION		MANUFACTURER	HIGH SIDE					LOW SIDE					OPER. WEIGHT (LBS)	REMARKS
MARK	ID #		FLUID	FLOW (LB/HR)	ENTERING FLUID TEMP. (°F)	LEAVING FLUID TEMP. (°F)	PD (PSIG)	FLUID	FLOW (LB/HR)	ENTERING FLUID TEMP. (°F)	LEAVING FLUID TEMP. (°F)	PD (PSIG)		
ACHX	9	MUELLER ACCU-THERM	WATER	84,050	130.0	118.0	9.5	WATER	84,178	112.0	124.0	9.6	1,200	
ACHX	10	MUELLER ACCU-THERM	WATER	84,050	130.0	118.0	9.5	WATER	84,178	112.0	124.0	9.6	1,200	
HRU	9	CATERPILLAR	EXHAUST	29,235	752.0	248.0	0.3	30% E. GLYCOL	500 GPM	195.0	211.0	43.5	15,000	
HRU	10	CATERPILLAR	EXHAUST	29,235	752.0	248.0	0.3	30% E. GLYCOL	500 GPM	195.0	211.0	43.5	15,000	
JWHX	9	MUELLER ACCU-THERM	WATER	236,101	210.0	192.0	7.4	WATER	283,944	180.0	195.0	10.0	1,200	
JWHX	10	MUELLER ACCU-THERM	WATER	236,101	210.0	192.0	7.4	WATER	283,944	180.0	195.0	10.0	1,200	
PWHX	1	POLARIS	WATER	102,425	180.0	112.0	0.4	WATER	232,367	85.0	115.0	2.0	1,500	
PWHX	2	POLARIS	WATER	102,425	180.0	112.0	0.4	WATER	232,367	85.0	115.0	2.0	1,500	

RADIATOR SCHEDULE

TAG	MARK	MANUFACTURER	MODEL	COOLING PERFORMANCE DATA			ELECTRICAL		OPER. WEIGHT (LBS)	REMARKS
				TOTAL CAPACITY (MBH)	AMBIENT dB (°F)	MAX AMBIENT (°F)	UNIT POWER SUPPLY			
							HP	V/PH/Hz		
LTWC	1	YOUNGTOUCHSTONE	HB64NX1282H	6,100.5	122.5	122.0	47.9	460/3/60	1,500	
LTWC	2	YOUNGTOUCHSTONE	HB64NX1282H	6,100.5	122.5	122.0	47.9	460/3/60	1,500	

AIR SEPARATOR SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	TYPE	FLOW RATE (GPM)	PD (FT HD)	MAX. OPER. PRESSURE (PSI)	OPER. WEIGHT (LBS)	REMARKS
AS-HTW-1	TACO	AC14-125	HHW	GEN HALL	INLINE	2,000	0.75	125	1,000	
AS-AC-9	TACO	AC06-125	AFTER COOLER	GEN HALL	INLINE	471	0.9	125	200	
AS-AC-10	TACO	AC06-125	AFTER COOLER	GEN HALL	INLINE	471	0.9	125	200	
AS-LTW-1	TACO	AC08-125	LOW TEMP WATER	GEN HALL	INLINE	1,134	1.9	125	400	
AS-JW-9	TACO	AC06-125	JACKET WATER	GEN HALL	INLINE	567	0.9	125	200	
AS-JW-10	TACO	AC06-125	JACKET WATER	GEN HALL	INLINE	567	0.9	125	200	

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
M-003

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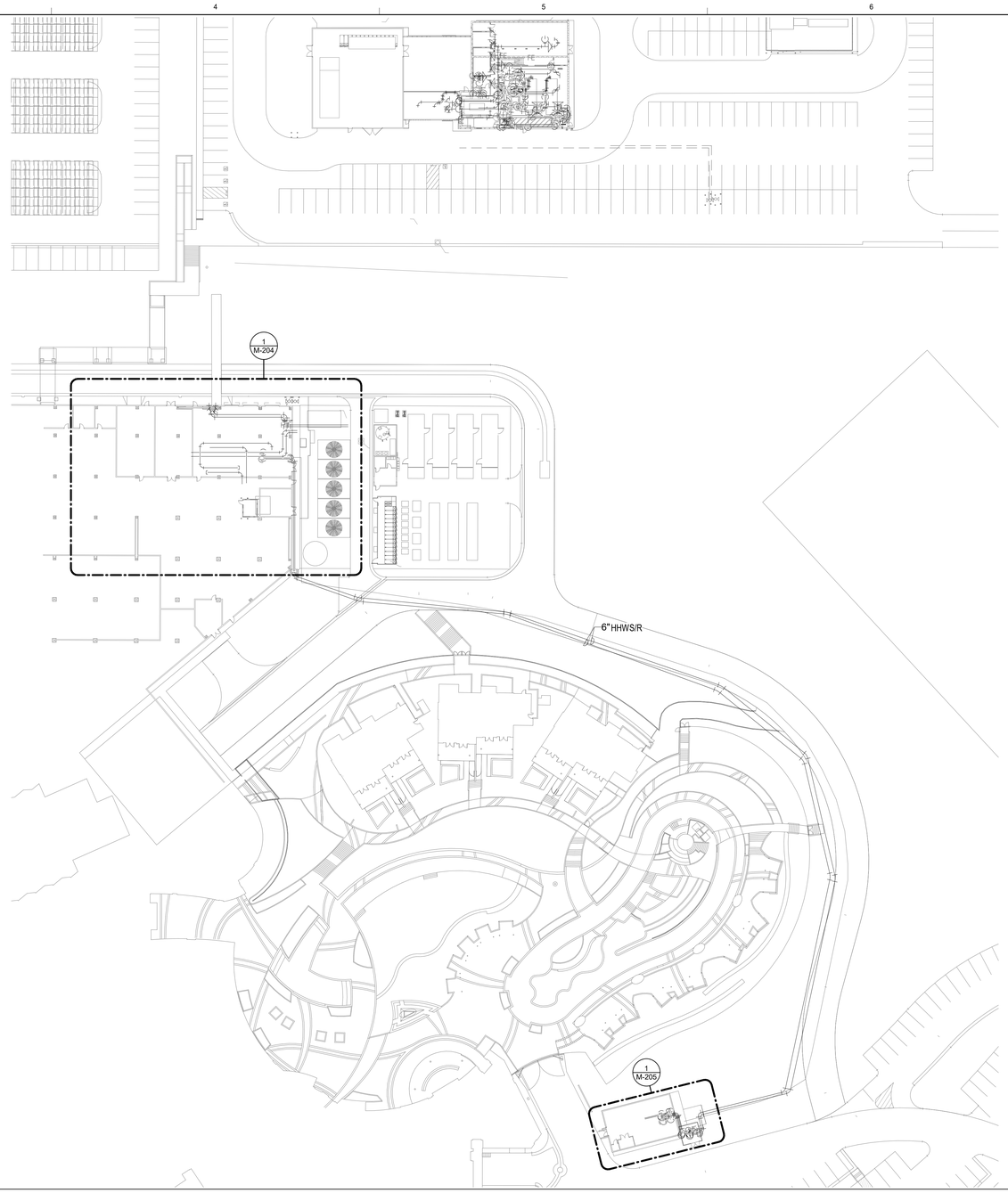

1 MECHANICAL SITE PLAN

1" = 40'-0"

SHEET KEYNOTES

0 20' 40' 80'
SCALE: 1" = 40'

NORTH

6/5/2026 1:34:12 PM
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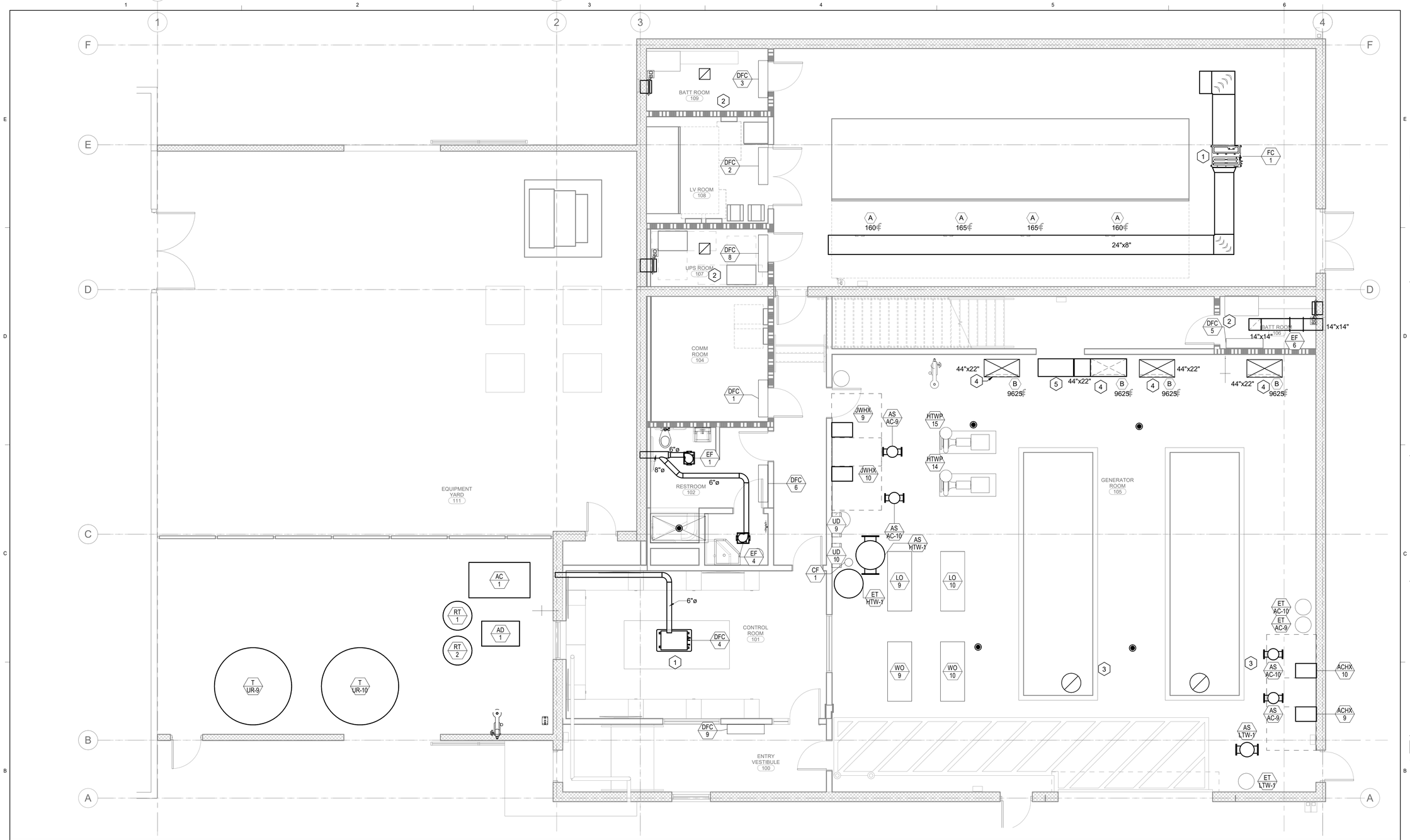
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANCIAL SITE PLAN

Sheet No.
MS-101



1 LEVEL 01 - MECHANICAL FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - EQUPMENT

A	CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
B	ENSURE ANY SIDEWALL ENVIRONMENTAL EXHAUST OUTLETS ARE INSTALLED A MINIMUM OF 3' FROM OPERABLE OPENINGS AND 10' FROM FORCED AIR INLETS.
C	FOR DUCT SUPPORT DETAILS SEE 7/M-501.
D	FOR DUCT TAKE-OFF DETAIL, SEE 5/M-501.
E	FOR DUCT PENETRATION THROUGH WALL DETAIL, SEE 4/M-501.
F	FOR DUCT PENETRATION THROUGH FLOOR DETAIL, SEE 6/M-501.

SHEET KEYNOTES

1	FOR CEILING MOUNTED FAN COIL UNIT DETAIL, SEE 1/M-501.
2	PROVIDE HONEYWELL E3 POINT DETECTION SYSTEM (OR EQ.) HYDROGEN DETECTOR. INTEGRATE WITH CONTROL OF ASSOCIATED EF AND FIRE ALARM.
3	PROVIDE HONEYWELL E3 POINT DETECTION SYSTEM (OR.EQ) METHANE DETECTOR. INTEGRATE WITH FIRE ALARM.
4	ROUTE 44"x22" DUCT DOWN WALL TO 18" AFF. PROVIDE SUPPLY AIR GRILLE AT MIN. 24" AFF TO BOTTOM OF GRILLE.
5	ROUTE 44"x22" DUCT WITH OFFSET TO AVOID WALKWAY OPENING AS SHOWN.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL FLOOR PLAN - LEVEL 01

Sheet No.
M-101

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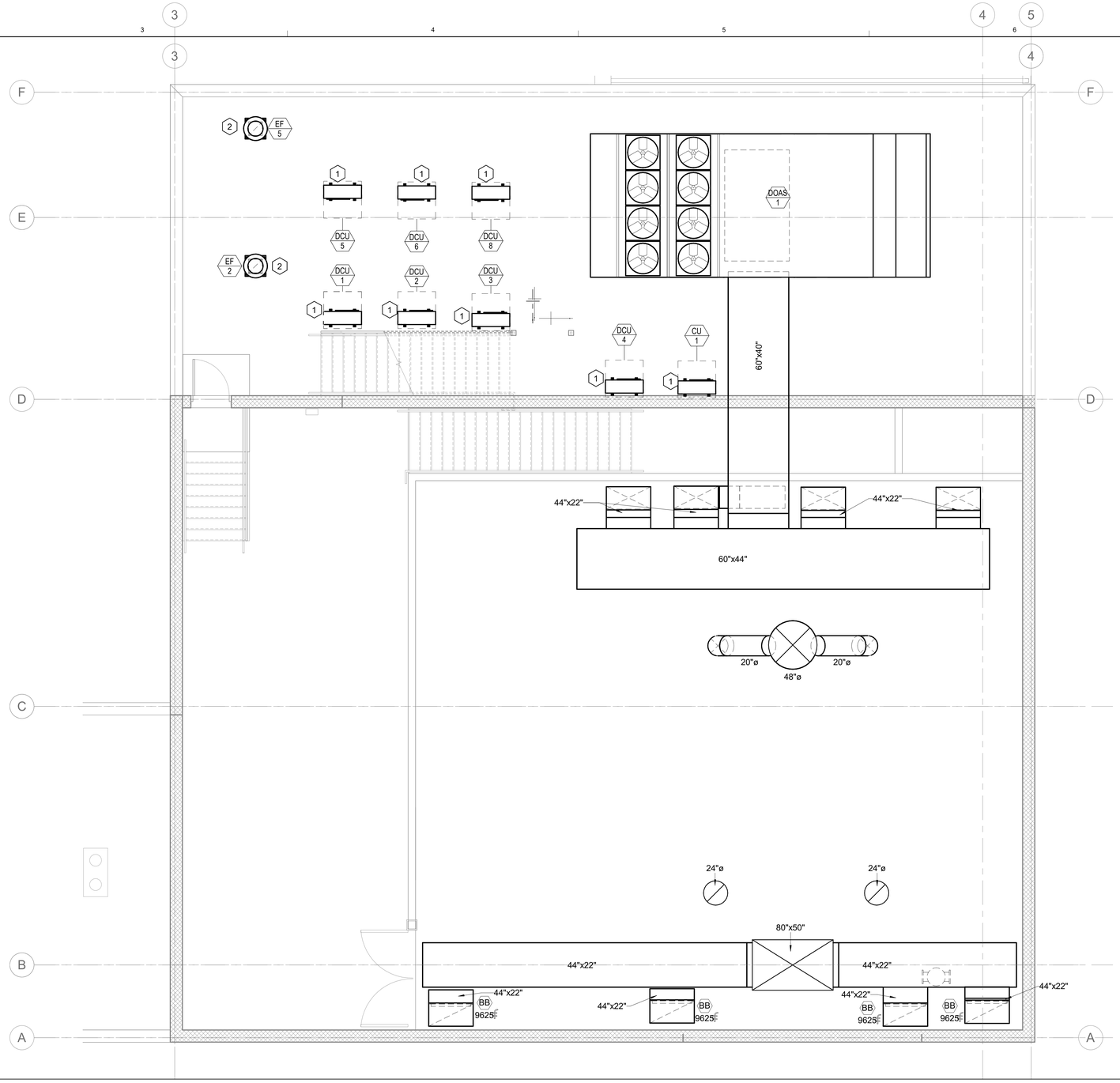

1 MEZZANINE - MECHANICAL FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - EQUPMENT

A	CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
B	ENSURE ANY SIDEWALL ENVIRONMENTAL EXHAUST OUTLETS ARE INSTALLED A MINIMUM OF 3' FROM OPERABLE OPENINGS AND 10' FROM FORCED AIR INLETS.
C	FOR DUCT SUPPORT DETAILS SEE 7/M-501.
D	FOR DUCT TAKE-OFF DETAIL, SEE 5/M-501.
E	FOR DUCT PENETRATION THROUGH WALL DETAIL, SEE 4/M-501.
F	FOR DUCT PENETRATION THROUGH FLOOR DETAIL, SEE 6/M-501.

SHEET KEYNOTES

1	FOR CONDENSING UNIT MOUNTING DETAIL, SEE 2/M-501.
2	FOR ROOF MOUNTED DOWNBLAST EXHAUST FAN MOUNTING DETAIL, SEE 3/M-501.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL FLOOR PLAN - MEZZANINE

Sheet No.
M-102

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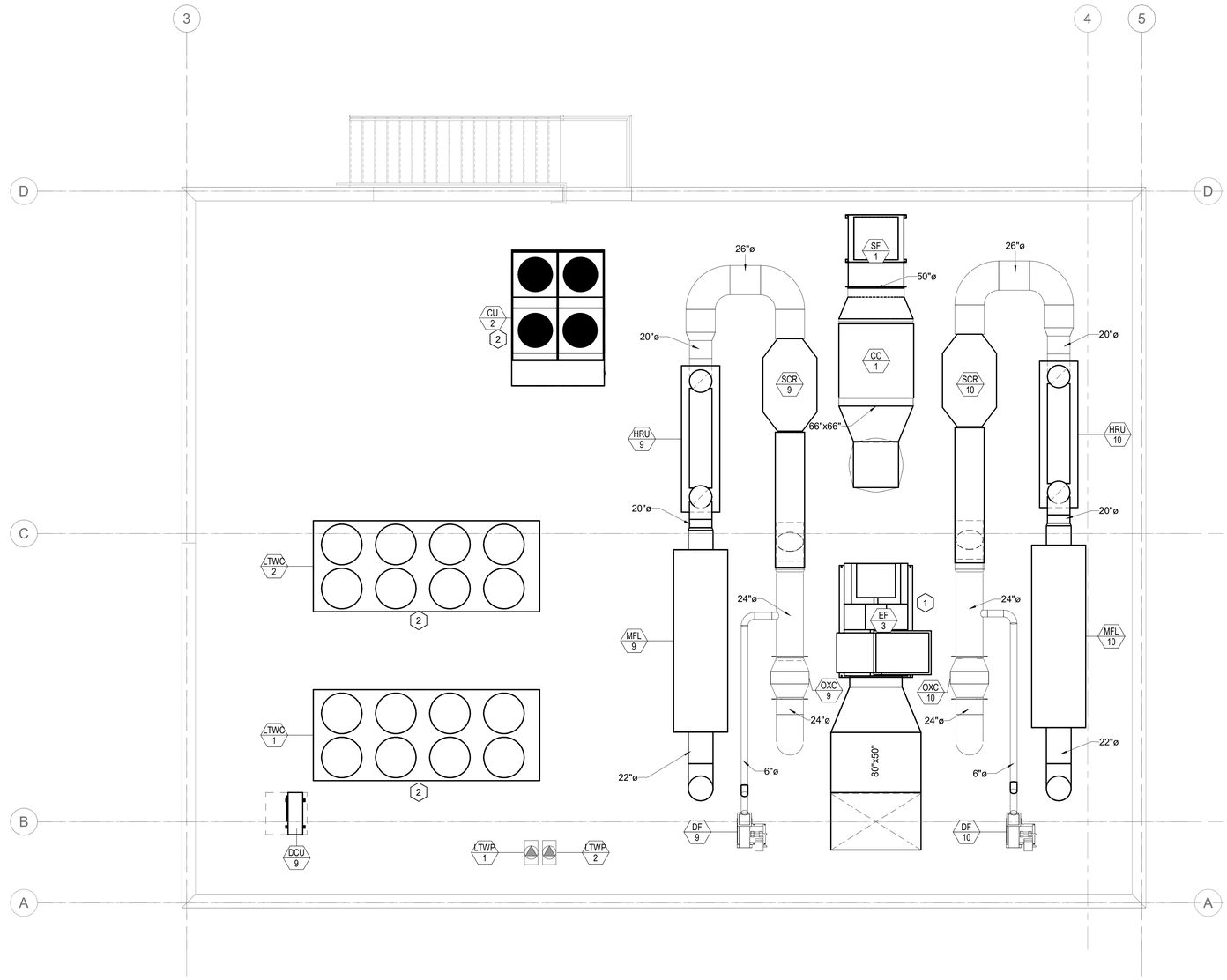

1 MECHANICAL ROOF PLAN

1/4" = 1'-0"

GENERAL NOTES - EQUPMENT

A	CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
B	ENSURE ANY SIDEWALL ENVIRONMENTAL EXHAUST OUTLETS ARE INSTALLED A MINIMUM OF 3' FROM OPERABLE OPENINGS AND 10' FROM FORCED AIR INLETS.
C	FOR DUCT SUPPORT DETAILS SEE 7/M-501.
D	FOR DUCT TAKE-OFF DETAIL, SEE 5/M-501.
E	FOR DUCT PENETRATION THROUGH WALL DETAIL, SEE 4/M-501.
F	FOR DUCT PENETRATION THROUGH FLOOR DETAIL, SEE 6/M-501.

SHEET KEYNOTES

1	FOR UTILITY SET FAN MOUNTING DETAIL, SEE 3/M-502.
2	FOR CONDENSING UNIT MOUNTING DETAIL, SEE 2/M-501.

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
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Sheet Title
MECHANICAL ROOF PLAN - ROOF

Sheet No.
M-103

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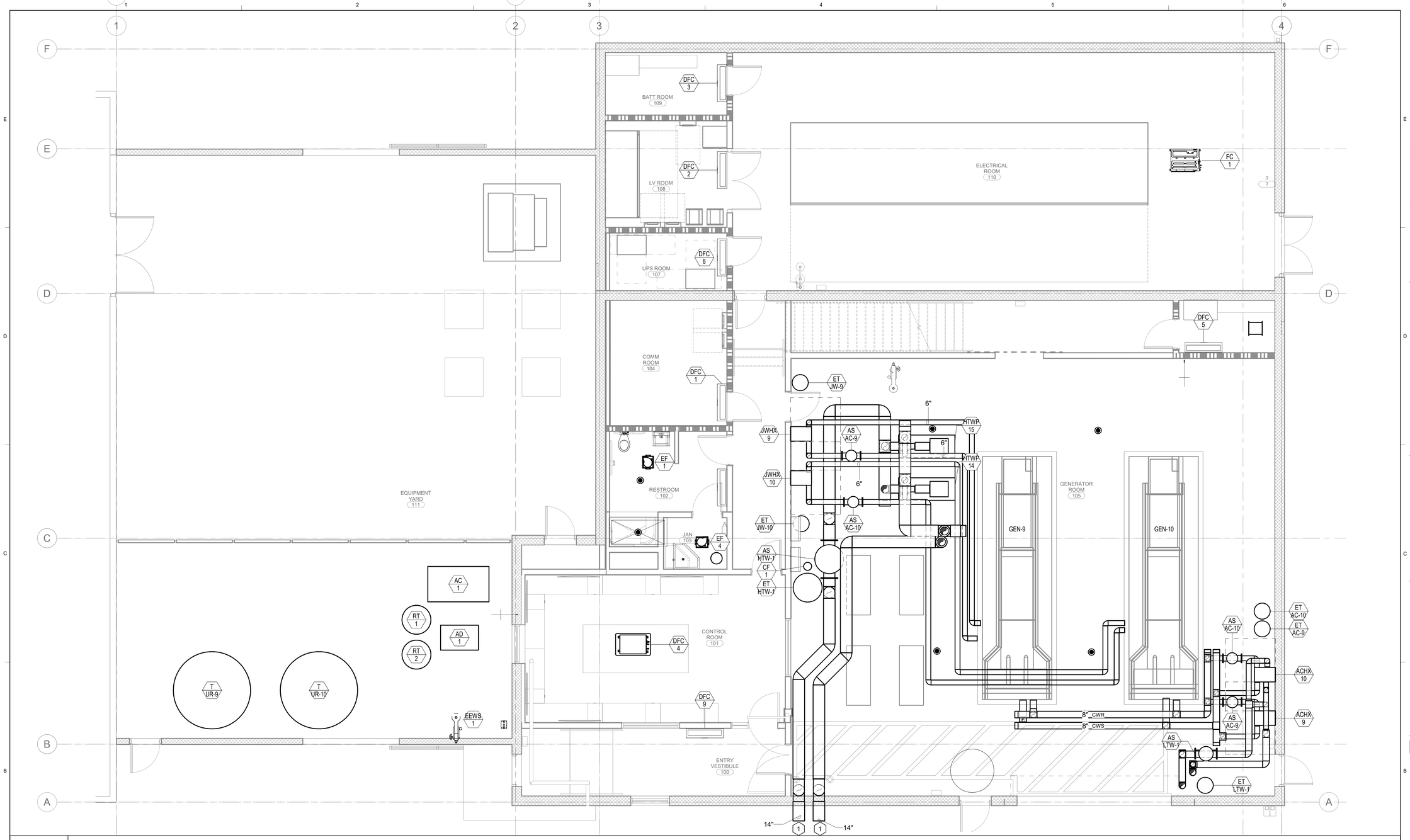

1 LEVEL 01 - MECHANICAL PIPING FLOORPLAN

1/4" = 1'-0"

GENERAL NOTES - PIPING

A	CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.

SHEET KEYNOTES

1	FOR CONTINUATION, SEE CIVIL PLAN.

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL PIPING FLOOR PLAN - LEVEL 01

Sheet No.
M-201

6/5/2026 1:34:19 PM
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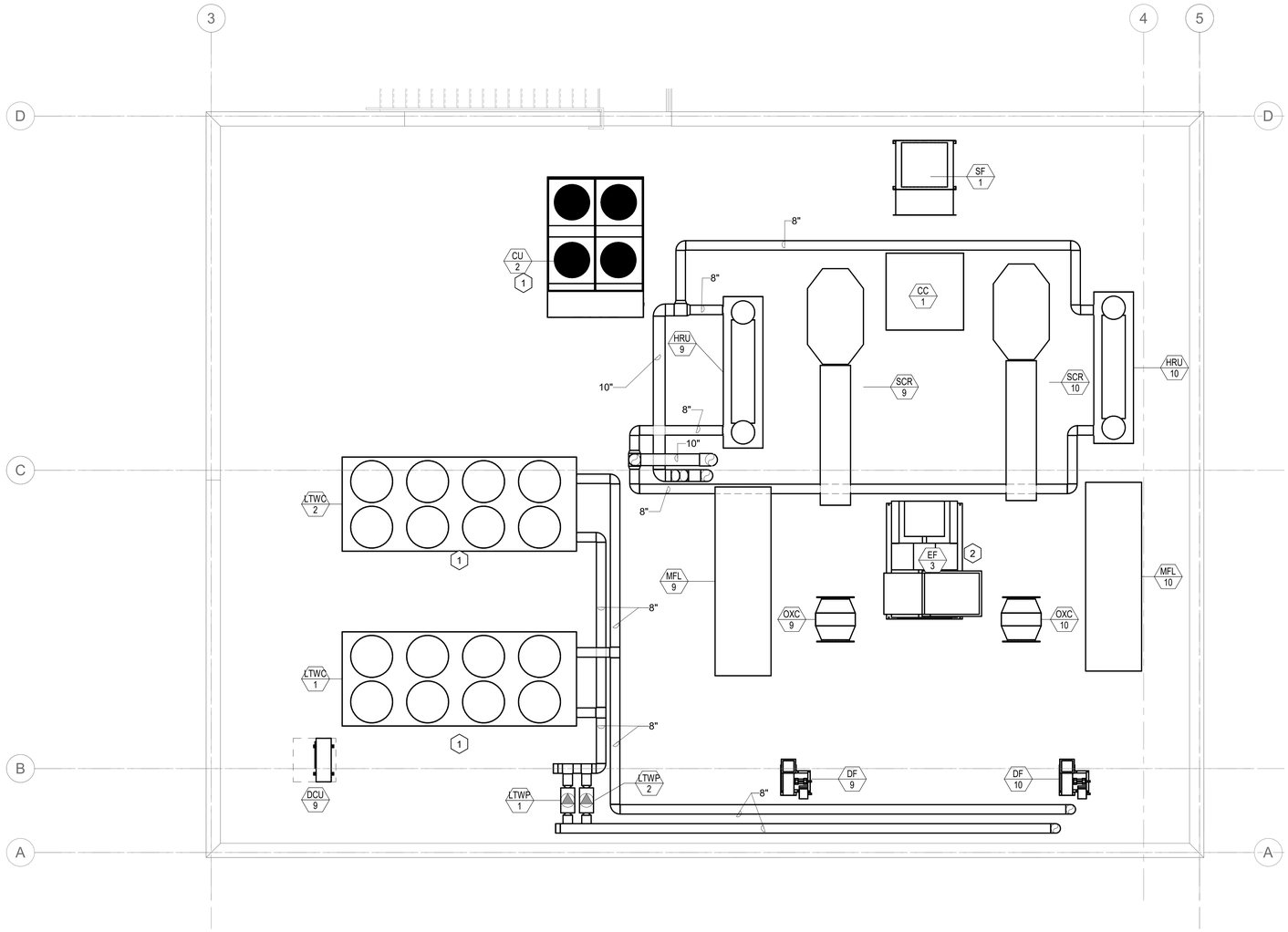

1 MECHANICAL PIPING ROOF PLAN

1/4" = 1'-0"

GENERAL NOTES - PIPING

A	CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.

SHEET KEYNOTES

1	FOR CONDENSING UNIT MOUNTING DETAIL, SEE 2/M-501.
2	FOR UTILITY SET FAN MOUNTING DETAIL, SEE 3/M-502.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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No. M 38667
Exp. 12/31/25
MECHANICAL
STATE OF CALIFORNIA

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL PIPING FLOOR PLAN - ROOF

Sheet No.
M-202

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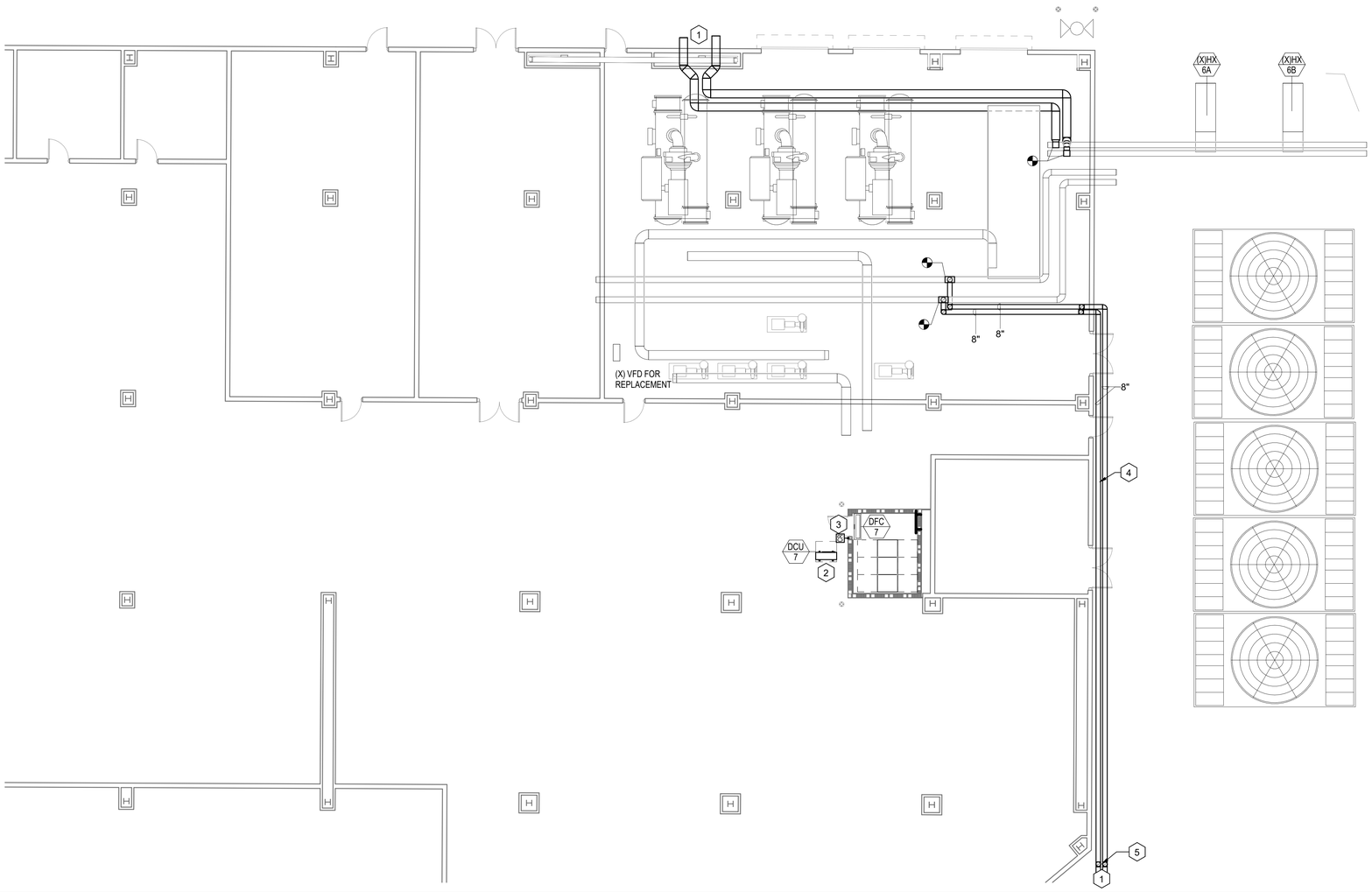

1 MECHANICAL PIPING - (X) COGEN ROOM

1 / MS-101 | 1/8" = 1'-0"

GENERAL NOTES - PIPING

A	CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.

SHEET KEYNOTES

1	FOR CONTINUATION, SEE CIVIL PLAN.
2	FOR CONDENSING UNIT MOUNTING DETAIL, SEE 2/M-501.
3	FOR WALL MOUNTED FAN COIL UNIT MOUNTING DETAIL, SEE 1/M-502.
4	ROUTE 6" HHWS/R ALONG EXTERIOR WALL AT 10'-0" AFF. SUPPORT WITH UNISTRUT RACK ALONG EXTERIOR WALL. HHWS/R TO BE RACKED VERTICALLY. PIPING SHOWN AS OFFSET ON PLAN FOR CLARITY.
5	ROUTE 6" HHWS/R BELOW GRADE. FOR CONTINUATION, SEE CIVIL.

0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL PIPING PLAN - (X) COGEN ROOM

Sheet No.
M-204

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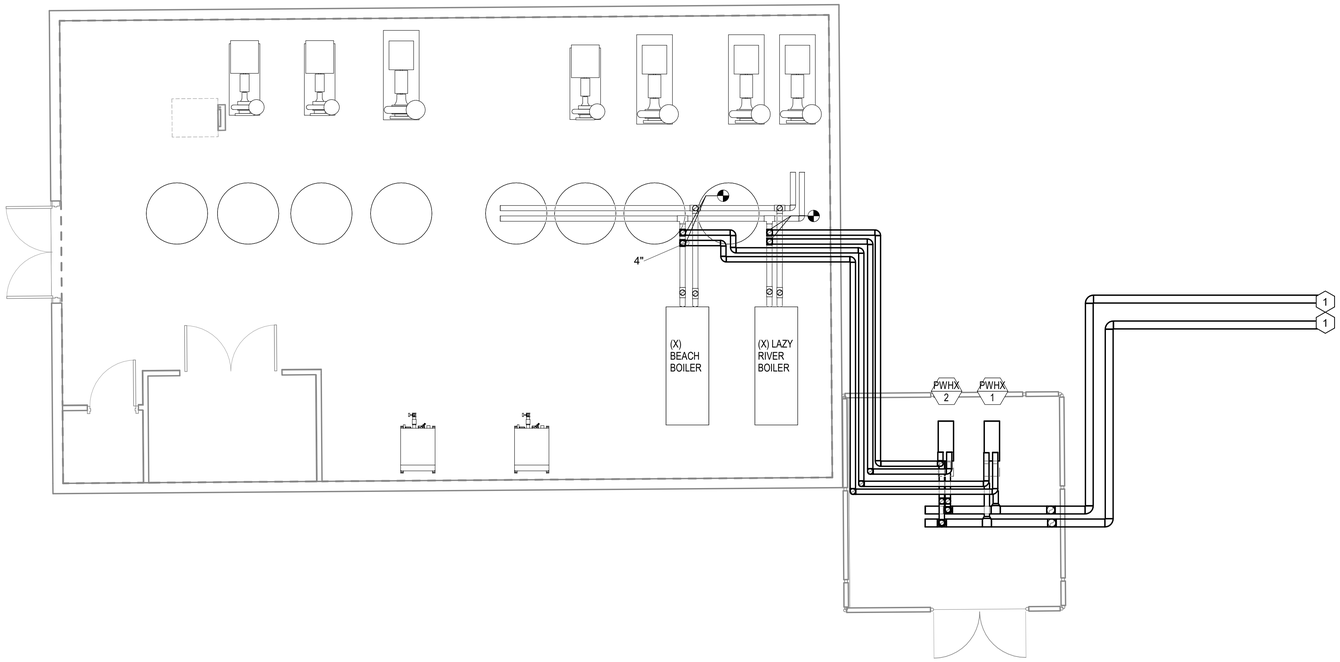

1 MECHANICAL PIPING PLAN - POOL BUILDING

1 / MS-101 1/4" = 1'-0"

GENERAL NOTES - PIPING

A	CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.

SHEET KEYNOTES

1	FOR CONTINUATION, SEE CIVIL PLAN.

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL PIPING PLAN - POOL ROOM

Sheet No.
M-205

6/5/2026 1:34:22 PM
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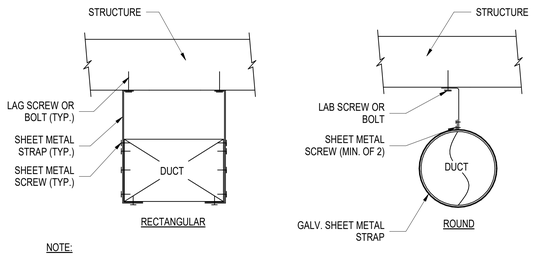
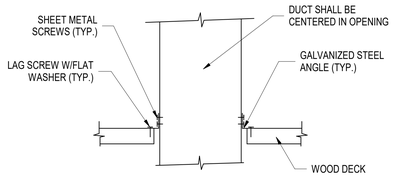


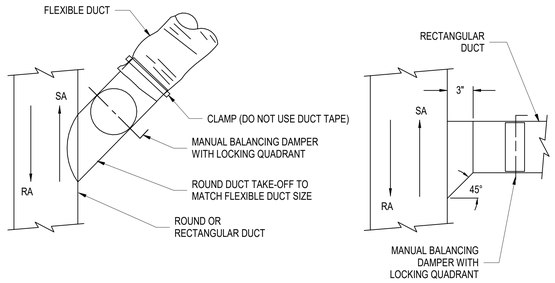
NOTE:

1. PROVIDE SEISMIC SUPPORTS FOR DUCTWORK WHERE THE DUCTS ARE SUSPENDED FROM STRUCTURE ABOVE MORE THAN 12" OR IF THE HVAC DUCTS HAVE A CROSS SECTIONAL AREA OF 6 SQUARE FEET OR GREATER.

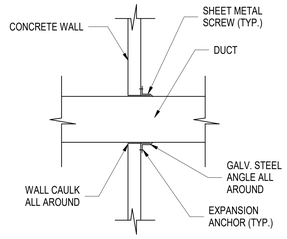
7 DUCT SUPPORT DETAIL



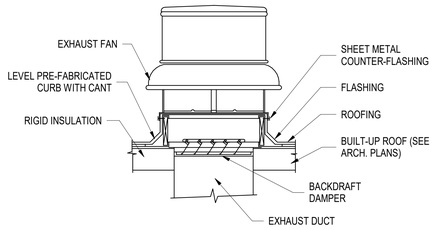
6 DUCT PENETRATION THRU FLOOR DETAIL



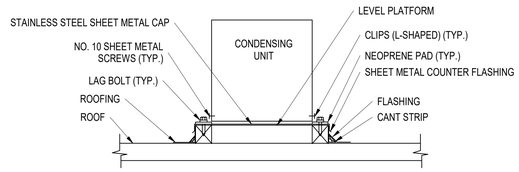
5 DUCT TAKE-OFF DETAIL



4 DUCT PENETRATION THRU WALL DETAIL



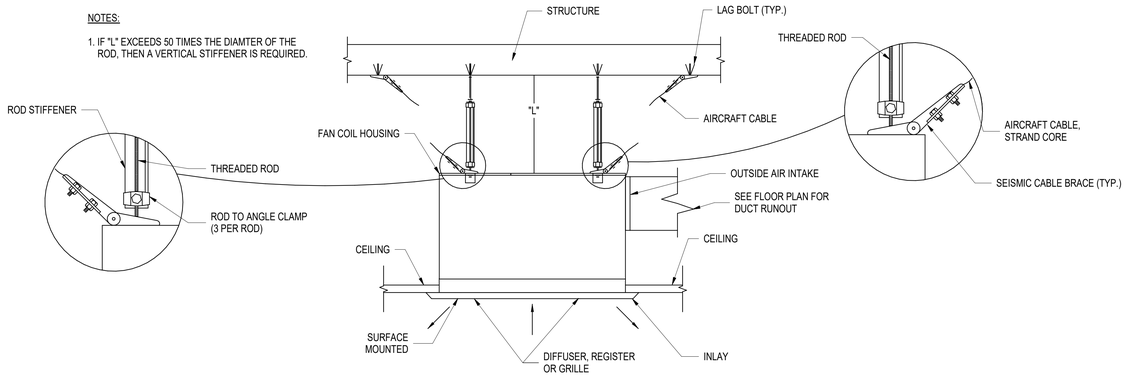
3 ROOF DOWNBLAST EXHAUST FAN MOUNTING DETAIL



2 CONDENSING UNIT MOUNTING DETAIL

NOTES:

1. IF "L" EXCEEDS 50 TIMES THE DIAMTER OF THE ROD, THEN A VERTICAL STIFFENER IS REQUIRED.



1 CEILING MOUNTED FAN COIL UNIT DETAIL

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL DETAILS

Sheet No.
M-501

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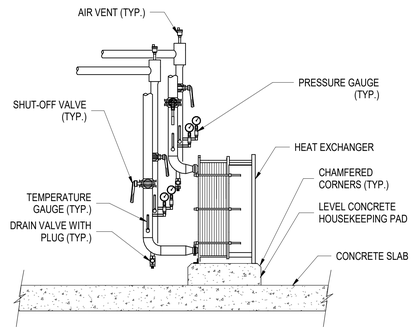
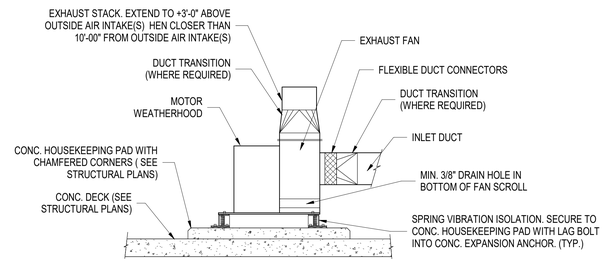
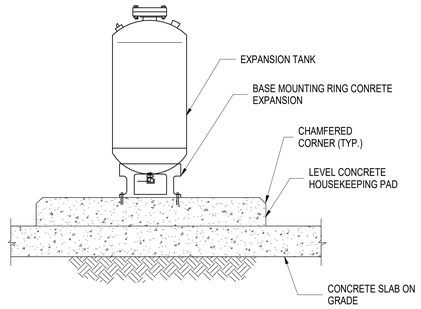


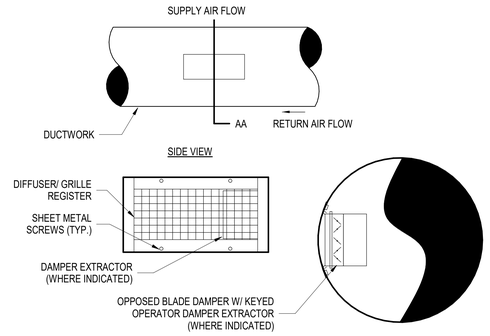
6	HEAT EXCHANGER MOUNTING DETAIL



3	UTILITY SET EXHAUST FAN MOUNTING DETAIL



5	EXPANSION TANK MOUNTING DETAIL

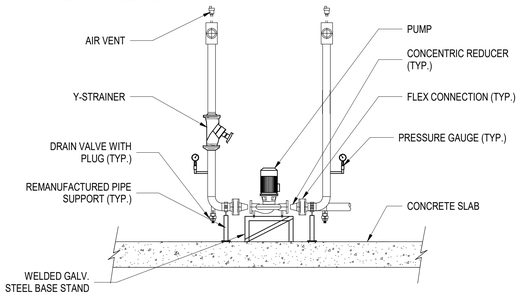


2	DUCT MOUNTED AIR DEVICE CONNECTION DETAIL

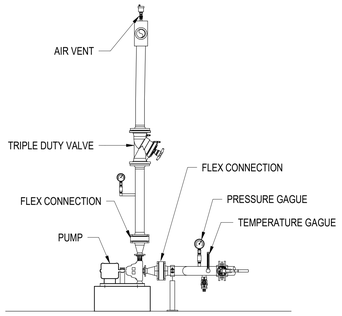
NOTES:

1. SECURE PUMP SUPPORT TO BASE STAND WITH MACHINE BOLTS, NUTS & LOCK WASHERS.

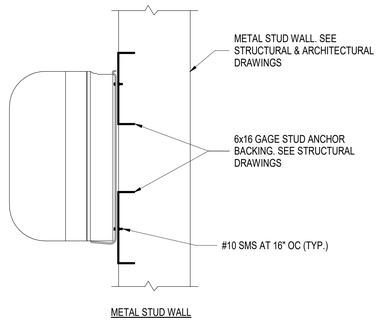
2. SECURE PIPE SUPPORTS & BASE STAND TO CONCRETE SLAB WITH CONCRETE EXPANSION ANCHORS.



7	VERTICAL INLINE PUMP MOUNTING DETAIL



4	END SUCTION PUMP MOUNTING DETAIL



1	WALL MOUNTED FAN COIL UNIT DETAIL

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

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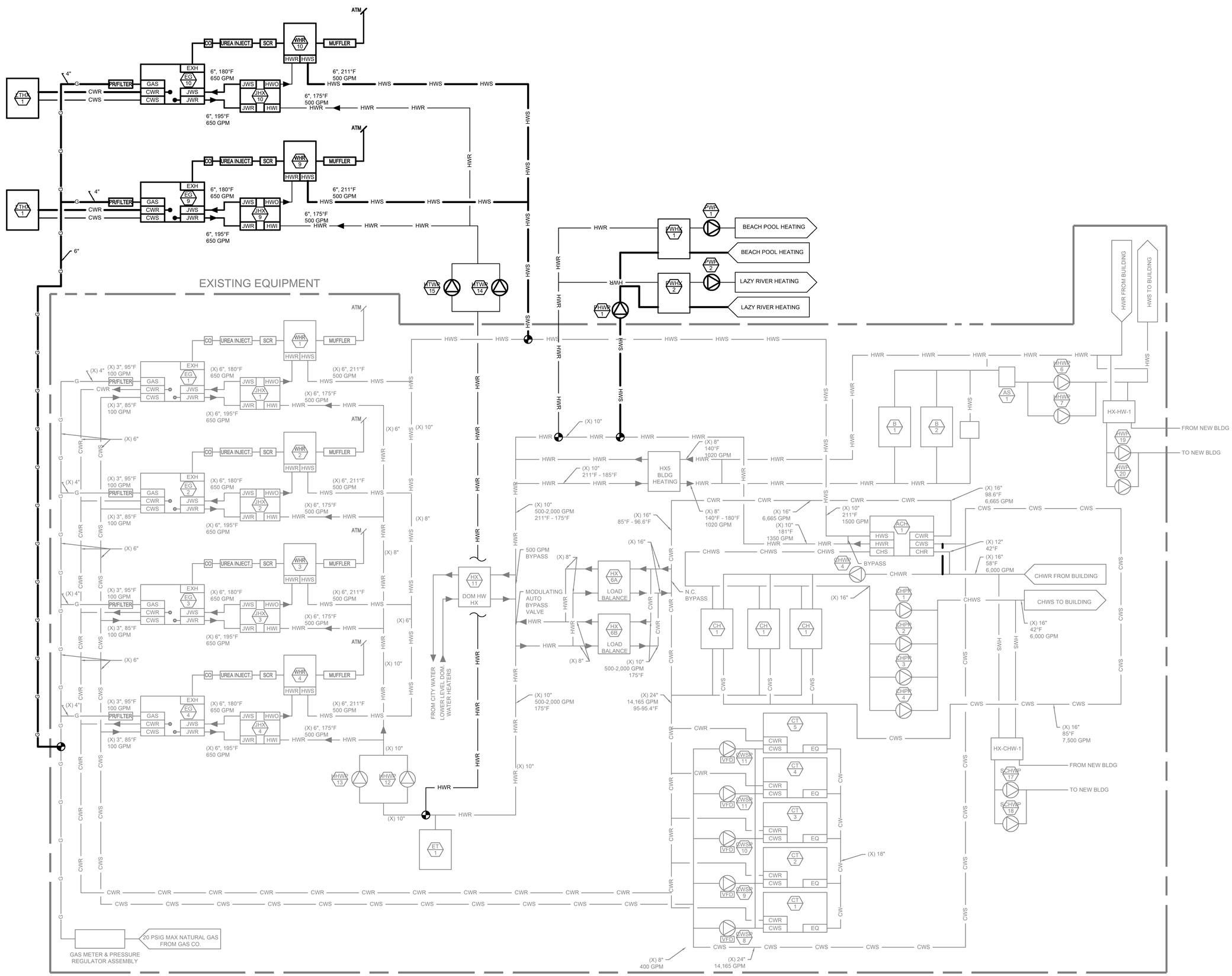
PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL DETAILS

Sheet No.
M-502



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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

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2026.03.19

Sheet Title
MECHANICAL PROCRESS DIAGRAMS

Sheet No.
M-602

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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/ 160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/ 170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.		
Project Name: MORONGO CHP	**Report Page:**	**(Page 1 of 8)**
Project Address: 49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	92230	06	Total Conditioned Floor Area (ft^2)	1257
03	Climate Zone	15	07	Total Unconditioned Floor Area (ft^2)	3356
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 100.0(f).		08 ☒	Project includes unconditioned enclosed space(s) > 5,000 ft^2 under a roof with a ceiling height of at least 15 ft.[1]	

● Commercial Industrial ● Office ● Support Areas

[1] FOOTNOTE: Enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/ 170.2 and 141.0(a)1/ 180.1 and 141.0(b)1 and 2/ 180.2 for additions and alterations.

My project consists of (check all that apply)		Component Types				
01		02				
☒	New Construction or Newly Conditioned Space	☐	Roof	☒ Walls	☐	Exterior Opaque Doors
☒	One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft			☐ Floors	☐	Fenestration/ Glazed Doors[1]
☐	Addition of conditioned space	☐	Roof	☐ Walls	☐	Exterior Opaque Doors
	☐ One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft			☐ Floors	☐	Fenestration/ Glazed Doors[1]
	☐ Addition is <=700 ft^2					
	☐ Addition is >700 ft^2					
☐	Alteration of conditioned space	☐	Roof Assembly	☐ Walls		
	☐ One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material[2]	☐ Floors	☐	Fenestration

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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MORONGO CHP	**Report Page:**	**(Page 2 of 8)**
	Date Prepared:	4/27/2026

B. PROJECT SCOPE

[1] FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.
[2] Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft^2	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
		Yes				Yes	

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MORONGO CHP	**Report Page:**	**(Page 3 of 8)**
	Date Prepared:	4/27/2026

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for alterations.

01	Indicate wall types included in the project:[1]	☐ Framed	☒ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Mass Walls (new walls only)

01	☒	Calculate Area-Weighted Average U-factor for Mass Walls[1]

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Information		Maximum U-factor Allowed[2]	U-factor per Design		Net Area[3] ft^2
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness	Cavity Insulation per Design				
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400
Exterior Wall South	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	1620
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400

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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MORONGO CHP	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	4/27/2026

H. WALL ASSEMBLY SCHEDULE

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Information		Maximum U-factor Allowed[2]	U-factor per Design		Net Area[3] ft^2
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness	Cavity Insulation per Design				
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400
Exterior Wall West	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Wood- 3.5 in	13	0.17	per JA4 per Software/ Other	0.086	400

[1] FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Mass walls are combined with concrete sandwich panel, log and ICF wall types. Mass walls must meet mandatory requirements in 120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.
[2] Mass walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in Tables 4.3.5 and 4.3.6 in Joint Appendix 4. Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.
[3] Wall area minus any fenestration area

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Envelope Component Approach
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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MORONGO CHP	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	4/27/2026

H. WALL ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Mass/ Concrete Sandwich Panel/ Log/ ICF Walls

01	02	03	04	05	06
Wall Type	Total Area of Wall Type (ft^2)	Mandatory U-factor Required	Area-weighted U-factor for Wall Type Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
			Required	Designed	
Light Mass	4420	0.44	0.17	0.086	COMPLIES
Heavy Mass	0	0.69	0	0	COMPLIES

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This section does not apply to this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

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L. DAYLIGHT IN LARGE ENCLOSED SPACES

This table demonstrates compliance with prescriptive daylight zone requirements in 140.3(c)/ 170.2(b) for new construction, additions, or alterations which install a new lighting system within climate zones 2-15. Enclosed space greater than 5,000 ft2 and under a roof with at least a 15 ft ceiling height must be included in the table.

01	**Plan Sheet Showing Daylit Zones:**	Architectural									
02	03	04	05	06	07	08	09	10		11	
Space Name	Compliance Method	Total Area of Space (ft^2)	Skylit Daylit Zone Area per Design (ft^2)	Primary Sidelit Daylit Zone Area per Design[1] (ft^2)	Compliance with 140.3(c)1/ 170.2(b)		Total Skylight Area per Design[2] (ft^2)	Compliance with 140.3(c)4/ 170.2(b)	OR	Alternate Compliance with 140.3(c)4/ 170.2(b)	
					Required Minimum Daylit Area (ft^2)	Daylit Area per Design (ft^2)		Skylight Area to Skylit Daylit Zone Area Ratio[3] (%)		Skylight Weighted Average VT[2]	Skylight Area x VT to Skylit Daylit Zone Area Ratio[4] (%)
Entire Building	Provided Min Daylit Areas per 140.3(c)/ 170.2(b)	0	0	0	0	0	0	0		0	0

[1] FOOTNOTES: Any area which falls within the Skylit Daylit Zone may not be double counted for the Primary Sidelit Daylit Zone.
[2] May be calculated by Table K Fenestration Schedule.
[3] Must be at least 3% to comply with 140.3(c)4/ 170.2(b) .
[4] Must be at least 1.5% to comply with 140.3(c)4/ 170.2(b) .

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
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O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MORONGO CHP	**Report Page:**	**(Page 8 of 8)**
Project Address: 49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: David Wolf	Documentation Author Signature: David Wolf
Company: ELEN Consulting Inc	Signature Date:
Address: 5473 Kearny Villa Road	CEA/ HERS Certification Identification (if applicable): M 38667
City/State/Zip: San Diego CA 92123	Phone: 619.550.1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: David Wolf	Responsible Designer Signature: David Wolf
Company: ELEN Consulting Inc	Date Signed: 2026-04-27
Address: 4573 Kearny Villa RD, STE 200	License: M38667
City/State/Zip: San Diego CA 92123	Phone: 6195501085

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: MORONGO CHP	**Report Page:**	**(Page 1 of 17)**
Project Address: 49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	04	Total Conditioned Floor Area	1257
02	Climate Zone	15	05	Total Unconditioned Floor Area	3356
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Commercial Industrial ● Office ● Support Areas

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☐	Heating Air System	☐	Water Economizer	☐	Air Economizer
☒	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
	Mechanical Controls	☐	System Piping	☒	Fan Systems
☒	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☐	Ductwork (existing to remain, altered or new)
		☐	Chillers	☒	Ventilation
		☐	Boilers	☐	Zonal Systems/ Terminal Boxes

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REGISTERED PROFESSIONAL ENGINEER DAVID IRVIN WOLF No. M 38667 Exp. 12/31/25 MECHANICAL STATE OF CALIFORNIA

ELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80% 2026.03.19

Sheet Title
MECHANICAL T24

Sheet No.
M-701

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 2 of 17)**
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
No	AND		AND	Yes	AND	Yes	AND	No	AND		AND		AND		DOES NOT COMPLY
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
DOAS 1	1	Single zone	New/ Addition		☐
Ductless Split	1	Single zone	New/ Addition		☐
Ductless Split	1	Single zone	New/ Addition		☐
Ductless Split	1	Single zone	New/ Addition		☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
Ductless Split	1	Single zone	New/ Addition		☐

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
DOAS 1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	946.79	1,515.9	0	959.36	1,519	-197.55	168.29
Ductless Split	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.56	20	25.22	56.14
Ductless Split	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.25	20	4.56	24.61
Ductless Split	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.73	20	7.21	38
Ductless Split	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.45	20	2.85	27.38

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
DOAS 1	>=240,000		COP	3.2	5	EER IEER	9.5 12.5	17.7 17.7
Ductless Split	<65,000					SEER2	14.3	14.3
Ductless Split	<65,000					SEER2	14.3	14.3
Ductless Split	<65,000					SEER2	14.3	14.3
Ductless Split	<65,000					SEER2	14.3	14.3

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	DOAS 1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	385,000	Site Elevation	411	Economizer	NA: Special OA filtration
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			90860		Manufacturer provided				40.48
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			41195						
			Hydronic/DX cooling coil or heat pump coil			100			41195						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		173.25			Fan System Electrical Output (kW)	40.48

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	Ductless Split	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	600	Site Elevation	411	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			139		Manufacturer provided				0.01
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			83						
			Hydronic/DX cooling coil or heat pump coil			100			83						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1			Fan System Electrical Output (kW)	0.01

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		Date Prepared:	4/27/2026

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	Ductless Split	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	600	Site Elevation	411	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			139		Manufacturer provided				0.01
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			83						
			Hydronic/DX cooling coil or heat pump coil			100			83						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1			Fan System Electrical Output (kW)	0.01

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	Ductless Split	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	600	Site Elevation	411	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			139		Manufacturer provided				0.01
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			83						
			Hydronic/DX cooling coil or heat pump coil			100			83						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1			Fan System Electrical Output (kW)	0.01

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	Ductless Split	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	600	Site Elevation	411	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			139		Manufacturer provided				0.01
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			83						
			Hydronic/DX cooling coil or heat pump coil			100			83						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1			Fan System Electrical Output (kW)	0.01

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
Ductless Split	None Applies	1
Ductless Split	None Applies	1
Ductless Split	None Applies	1
Ductless Split	None Applies	1

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT
49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

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MECHANICAL T24

Sheet No.
M-702

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I. SYSTEM CONTROLS
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
Ductless Split	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
Ductless Split	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
Ductless Split	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided
Ductless Split	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 12 of 17)**
		Date Prepared:	4/27/2026

J. VENTILATION AND INDOOR AIR QUALITY
This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07	
System Name	Ductless Split	System Design OA CFM Airflow[1]		30	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
CORRIDOR - CONDITIONED	Corridor	202			30.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
ELEC ROOM - CONDITIONED	All others	299			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				30	18	Ventilation for this System Complies?		Yes

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	Ductless Split	System Design OA CFM Airflow[1]		26	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
TELECOM	Computer Lab	171			25.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				26	18	Ventilation for this System Complies?		No
04		05			06			07	
System Name	Ductless Split	System Design OA CFM Airflow[1]		65	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
OFFICE	Office space	436			65.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				65	18	Ventilation for this System Complies?		Yes

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 14 of 17)**
		Date Prepared:	4/27/2026

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	Ductless Split	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
RESTROOM	Shower room	120			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
JANITOR	Janitor closet	29			0	29	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

STATE OF CALIFORNIA
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K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)
This section does not apply to this project.

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 16 of 17)**
		Date Prepared:	4/27/2026

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Ductless Split; Ductless Split; Ductless Split; Ductless Split;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Ductless Split; Ductless Split; Ductless Split; Ductless Split;
NRCA-MCH-11-A Automatic Demand Shed Controls	Ductless Split; Ductless Split; Ductless Split; Ductless Split;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Ductless Split; Ductless Split; Ductless Split; Ductless Split;
NRCA-MCH-18-A Energy Management Control Systems	Ductless Split; Ductless Split; Ductless Split; Ductless Split;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location M-Sheets

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 17 of 17)**
Project Address:	49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: David Wolf	Documentation Author Signature: David Wolf
Company: ELEN Consulting Inc	Signature Date:
Address: 5473 Kearny Villa Road	CEA/ HERS Certification Identification (if applicable): M 38667
City/State/Zip: San Diego CA 92123	Phone: 619.550.1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: David Wolf	Responsible Designer Signature: David Wolf
Company: ELEN Consulting Inc	Date Signed: 2026-04-27
Address: 4573 Kearny Villa RD, STE 200	License: M38667
City/State/Zip: San Diego CA 92123	Phone: 6195501085

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 1 of 6)**
Project Address:	49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	02	Climate Zone	15
03	Occupancy Types Within Project (select all that apply):				

● Commercial Industrial ● Office ● Support Areas

B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type[1,2]	System Components
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*

[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 2 of 6)**
		Date Prepared:	4/27/2026

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04		05	06			
System Name	Standard Gas 50 gal or Less	Exception to 140.5(c)/ 170.2(d)3		☐	Gas Service Water Heating System >= 1MMBtu/h^1	Capacity-weighted Average Efficiency %		
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
Standard Gas 50 gal or Less	Commercial Gas Hot Water Supply Boilers	50	40,000	FHR >=75	0.63	0.63	UEF		

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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REGISTERED PROFESSIONAL ENGINEER DAVID IRVIN WOLF No. M 38667 Exp. 12/31/25 MECHANICAL STATE OF CALIFORNIA

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT
49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL T24

Sheet No.
M-703

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 3 of 6)**
		Date Prepared:	4/27/2026

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 4 of 6)**
		Date Prepared:	4/27/2026

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity [d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 5 of 6)**
		Date Prepared:	4/27/2026

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/TItle
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	MORONGO CHP	**Report Page:**	**(Page 6 of 6)**
Project Address:	49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: David Wolf	Documentation Author Signature: David Wolf
Company: ELEN Consulting Inc	Signature Date:
Address: 5473 Kearny Villa Road	CEA/ HERS Certification Identification (if applicable): M 38667
City/State/Zip: San Diego CA 92123	Phone: 619.550.1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: David Wolf	Responsible Designer Signature: David Wolf
Company: ELEN Consulting Inc	Date Signed: 2026-04-27
Address: 4573 Kearny Villa RD, STE 200	License: M38667
City/State/Zip: San Diego CA 92123	Phone: 6195501085

6/5/2026 1:34:33 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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REGISTERED PROFESSIONAL ENGINEER
DAVID IRVIN WOLFF
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Exp. 12/31/25
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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD 80%
2026.03.19

Sheet Title
MECHANICAL T24

Sheet No.
M-704

6/5/2026 1:25:41 PM
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SITE SYMBOLS LEGEND

- OHP — NEW CONDUIT AND/OR CONDUCTOR LINE. SEE BELOW FOR TYPICAL DESIGNATIONS
- (XD)OHP — EXISTING TO BE DEMOLISHED CONDUIT AND/OR CONDUCTOR. SEE BELOW FOR TYPICAL DESIGNATIONS
- (X)OHP — EXISTING CONDUIT AND/OR CONDUCTOR LINE TO CONDUCTOR. SEE BELOW FOR TYPICAL DESIGNATIONS

EACH LINE INDICATES A (2) CONDUIT HIGH CONFIGURATION

TYPICAL DESIGNATIONS TO BE USED IN CONJUNCTION WITH CONDUIT SYMBOLS
- UP - (2) 5" C. UNDERGROUND PRIMARY
- US - 4" (MIN) C. UNDERGROUND SECONDARY. QTY PER FEEDER SCHEDULE
- UC - (2) 4"C. UNDERGROUND COMMUNICATIONS UNO
- UD - (2) 4"C. UNDERGROUND DC CABLING
- OHP - OVERHEAD PRIMARY
- OHS - OVERHEAD SECONDARY
- OHC - OVERHEAD COMMUNICATIONS
- G - #4/0 BARE COPPER GROUND

NEW HANDHOLE
EXISTING HANDHOLE
NEW MANHOLE
EXISTING MANHOLE
GENERATOR
SUBSTATION
PAD MOUNTED SWITCH
PAD MOUNTED TRANSFORMER
WEATHERPROOF POWER JUNCTION BOX
WEATHERPROOF DATA JUNCTION BOX

SITE LIGHTING LEGEND

LUMINAIRE(S) POLE MOUNTED WITH ARM. TYPE AS NOTED.
LUMINAIRE(S) POLE MOUNTED ON TOP. TYPE AS NOTED.

LIGHTING NAME LEGEND

RD1A

- MOUNTING: IN-GRADE, PENDANT, OUTDOOR, RECESSED, SURFACE, WALL
- FUXTURE (OPTIONAL): ACCENT, BOLLARD, CYLINDER, DOWNLIGHT, DECORATIVE, LINEAR, POLE, STRIP, TROFFER
- NEW TYPE
- VARIANT: LENGTH, OPTICS, SHAPE, OUTPUT, EMERGENCY

SUBSCRIPT ADJACENT TO LIGHTING FIXTURE INDICATES:
a,b,c etc. = SWITCH-LEG REFERENCE

COMMUNICATION LEGEND

WALL MOUNTED COMMUNICATION OUTLET MOUNTED AT 18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING. RJ45 JACKS PER SHOP DRAWINGS.

WALL MOUNTED VOICE OUTLET AT +18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING. RJ45 JACKS PER SHOP DRAWINGS.

WALL MOUNTED DATA OUTLET AT +18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING. RJ45 JACKS PER SHOP DRAWINGS.

WIFI — WAP POINT. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING.

CEILING MOUNTED DATA OR VOICE/DATA OUTLET.

FLOOR DATA OR VOICE/DATA OUTLET. VERIFY EXACT LOCATION WITH ARCHITEC

M — M — WALL OR FLOOR VOICE/DATA CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER

S — PA SPEAKERS

S1 — AV SPEAKERS

TV — TELEVISION SEMI-RECESSED DATA OUTLET PROVIDE (1) 1-1/2"C.O. TO ACCESSIBLE CEILING WITH INSULATED BUSHING.

SPEAKER VOLUME CONTROLLER AT +48" A.F.F.

GROUND BUS

12" WIDE CABLE TRAY, 4" DEEP (NOMINAL) TYPICAL UNO

COORDINATE THE EXACT MOUNTING OF ALL CABLE TRAY SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN.

HVAC POWER LEGEND

NON-FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)
FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)
MOTOR STARTER (NEMA SIZE AS NOTED)
COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER, (NEMA SIZE AS NOTED), 3P, 600 VAC MAXIMUM RATING
T — TOGGLE TYPE FRACTIONAL HP MANUAL MOTOR STARTER WITH THERMAL OVERLOADS (DELETED IF FOR DISCONNECT USE ONLY) AND HANDLE GUARD/LOCK-OFF, 2 POLES (VERIFY WITH BRANCH CIRCUIT)
EPO — EMERGENCY POWER OFF

IF EQUIPMENT LOCATED OUTSIDE CONTRACTOR SHALL PROVIDE NEMA 3R ENCLOSURE FOR DISCONNECTS.

— EQUIPMENT CALLOUT. SEE SHEET E-602 FOR EQUIPMENT CONNECTIONS REQUIREMENTS.

SWITCH LEGEND

MOUNT WALL SWITCHES AT 48" AFF UNO. VERIFY ALL CONTROL LOCATIONS AND TYPES WITH CONTROLS SHOP DRAWINGS.

TOGGLE SWITCH
DIMMER SWITCH
OCCUPANCY SENSOR SWITCH
DIMMER/OCCUPANCY SENSOR SWITCH
LV — GRAPHICAL LOW VOLTAGE SWITCH
M — MOTION SENSOR - CEILING MOUNTED
PC — PHOTOCELL - CEILING MOUNTED
DS — DAYLIGHT SENSOR - CEILING MOUNTED

SUBSCRIPT ADJACENT TO SWITCH INDICATES:
K = KEYED SWITCH
a,b,c etc. = MULTIPLE SWITCHES/CONTROL LEGS IN A GANGED BOX WITH A COMMON COVER PLATE.

POWER LEGEND

COORDINATE THE EXACT MOUNTING AND LOCATION OF ALL WIRING DEVICES AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN. SEE ARCH PLANS FOR EXACT DEVICE LOCATIONS. SHADED INDICATES ABOVE COUNTER. PROVIDE WITH WEATHERPROOF COVER IF LOCATED OUTDOORS.

DUPLEX | QUAD | DUPLEX GFI | QUAD GFI | DUPLEX WITH USB

RECEPTACLE, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER OR +42" AFF.

DUPLEX | QUAD | DUPLEX GFI | QUAD GFI | DUPLEX WITH USB

SPLIT YOLK HALF CONTROLLED RECEPTACLE NON-LOCKING TYPE 120V-20A. CONNECT SWITCH LEG BETWEEN RELAY POWER PACK AND OCCUPANCY CONTROLS FOR AUTOMATIC SHUT OFF. CONTROLLED RECEPTACLES SHALL HAVE PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES. (CEC TITLE 24 SECTION 130.5(D)). PROVIDE FACEPLATE PER NEC 406.3(E).

SURFACE MOUNTED RECEPTACLE, NON-LOCKING TYPE, GROUNDING.
CEILING MOUNTED DUPLEX OR QUAD RECEPTACLE, NON-LOCKING TYPE, GROUNDING.
POWER FLOOR BOX.

IF RECEPTACLE LOCATED OUTSIDE CONTRACTOR SHALL PROVIDE WEATHERPROOF ENCLOSURE AND IN-USE COVER.

M — P — P — M — WALL OR FLOOR POWER CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER.

J — CEILING JUNCTION BOX
J — WALL/SURFACE MOUNTED JUNCTION BOX
J — WALL/SURFACE MOUNTED JUNCTION BOX FOR CONTROL SYSTEM AS INDICATED. PROVIDE 20A CIRCUIT AS SHOWN ON FLOOR PLANS AND (1) 1-1/4"C. WITH PULL STRING BACK TO SYSTEM HEADEND.
P = PMS
E = EMCS
S = SEL
J — FLOOR MOUNTED JUNCTION BOX
SPECIAL NEMA CONFIGURATION RECEPTACLE MOUNTED AT +18" AFF UNO. MINIMUM WIRE # 10 THROUGHOUT.

TYPE DESIGNATIONS:
NONE = L5-30R
A = L6-30R
B = L6-20R
C = L21-20R
D = L15-30R

EQUIPMENT SIZES SHOWN ON PLANS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE FOR ENSURING EQUIPMENT CLEARANCES ARE MET BASED ON ACTUAL SIZE.

SWITCHBOARD OR MCC
TRANSFORMER
PANEL BOARD (SURFACE)
PANEL BOARD (FLUSH)
SPACE FOR FUTURE PANEL BOARD
ELEC GROUND BUS
LCP — LIGHTING CONTROL PANEL
3/4" X 10' COPPER CLAD GROUND ROD
3/4" X 10' COPPER CLAD GROUND ROD AND TEST WELL
SECURITY CAMERAS. LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE EXACT LOCATION WITH MORONGO SECURITY PRIOR TO ROUGH-IN. PROVIDE (1) 1-1/4"C. BACK TO SECURITY HEADEND.

LIGHTING LEGEND

COORDINATE THE EXACT MOUNTING AND LOCATION OF ALL LIGHTING, SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN. SEE ARCH PLANS FOR EXACT GRID, FLUSH AND SURFACE MOUNTING LOCATIONS.

LIGHTING FIXTURES. SEE FIXTURE SCHEDULE FOR CONDUCTOR. SEE BELOW FOR TYPICAL DESIGNATIONS

EMERGENCY LIGHTING FIXTURES. SEE FIXTURE SCHEDULE CONDUCTOR. SEE BELOW FOR TYPICAL DESIGNATIONS

LUMINAIRE(S) POLE MOUNTED WITH ARM. TYPE AS NOTED.

LIGHTED EXIT SIGN. TOP MOUNTED ON CEILING OR STEM MOUNTED. SHADED SIDE INDICATES FACE. PROVIDE ARROWS TO MATCH ARCHITECTURAL OR LIFE SAFETY PLANS.

SUBSCRIPT ADJACENT TO LIGHTING FIXTURE INDICATES:
L# = FIXTURE DESIGNATION
1,2,3 etc. = BRANCH CIRCUIT NUMBERS
a,b,c etc. = SWITCH-LEG REFERENCE
NL = NIGHT/SECURITY LIGHTING FIXTURE

GENERAL SYMBOLS LEGEND

1 — SHEET NOTE REFERENCE
3 / E1 — DETAIL NUMBER DESIGNATION; SHEET ON WHICH DETAIL IS LOCATED
CONDUIT STUBOUT
FLEXIBLE CONDUIT
A-1 / #8 — HOMERUN TO PANEL AND CIRCUITS INDICATED. NUMBER ADJACENT TO CIRCUIT DENOTES WIRE SIZE OTHER THAN #12 FOR ALL CONDUCTORS UNO.

GENERAL NOTES

1. ALL GROUNDING PER NEC.
2. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION OF RECEPTACLES IN TEL/COM ROOMS PRIOR TO ROUGH-IN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTATION. COORDINATE WITH ALL OTHER TRADES FOR EQUIPMENT LOCATIONS.
4. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL RECEPTACLES AND DEVICES.
5. COORDINATE WITH EQUIPMENT MANUFACTURER FOR LOCATIONS AND CONNECTIONS.
6. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

SINGLE LINE LEGEND

GROUND
CIRCUIT BREAKER — FUSED SWITCH
TRANSFORMER DELTA PRIMARY, WYE SECONDARY WITH kVA RATING
SPD — SURGE PROTECTION DEVICE
GFP — GROUND FAULT PROTECTION
CB — ENCLOSED CIRCUIT BREAKER

CIRCUIT BREAKER CALLOUT
200AT - TRIP SIZE
200AF - FRAME SIZE
3P - POLE

M — KILOWATT-HOUR METER
M — EXTERNALLY MOUNTED METER

FUSE CALLOUT
200AF - FUSE SIZE
3P - POLE

NON-FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)
FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)
MOTOR
PANEL BOARD
(X)PANEL BOARD
AUTOMATIC TRANSFER SWITCH
EQUIPMENT ENCLOSURE

ELECTRICAL ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CURRENT
ALT.	ALTERNATE
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
C.O.	CONDUIT ONLY
CONC.	CONCRETE
CX	CONNECT TO EXISTING CIRCUIT
CU	COPPER
dBA	DECIBELS
DIST.	DISTRIBUTION
DWG.	DRAWING
EG	EQUIPMENT GROUND
EGB	ELECTRICAL GROUND BUS
EM	EMERGENCY
ETC	ET CETERA
EPO	EMERGENCY POWER OFF BUTTON
EWC	ELECTRIC WATER COOLER
EXIST. (X)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCC	FIRE CONTROL CENTER
FLA	FULL LOAD AMPS
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HD	HAND DRYER
HORIZ.	HORIZONTALLY MOUNTED
HP	HORSEPOWER
KCMIL	THOUSAND CUBIC MILLIMITERS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
JB	JUNCTION BOX
JP	JOCKEY PUMP
LC	LOCKABLE ENCLOSURE
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MEGB	MAIN ELECTRICAL GROUND BUS
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MIC	MICROWAVE
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTGB	MAIN TELECOMMUNICATION GROUND BUS
MTG. HT.	MOUNTING HEIGHT
NIC	NOT IN CONTRACT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SEC	SECURITY
SHT	SHEET
S.N.	SOLID NEUTRAL
SP	SUMP PUMP
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SWGR	SWITCHGEAR
TC	TERMINAL CABINET
TEL	TELEPHONE
TGB	TELECOMMUNICATION GROUND BUS
T.I.	TENANT IMPROVEMENT
T.R.	TAMPER RESISTANT
TV	TV MONITOR
TYP	TYPICAL
U.C.	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
WH	WATER HEATER
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
X	EXISTING TO REMAIN
XD	EXISTING TO BE DEMOLISHED
XR	EXISTING TO BE RELOCATED
XL	NEW LOCATION OF EXISTING ITEM

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL SYMBOLS AND ABBREVIATIONS

Sheet No.
E-001

6/5/2026 1:25:42 PM
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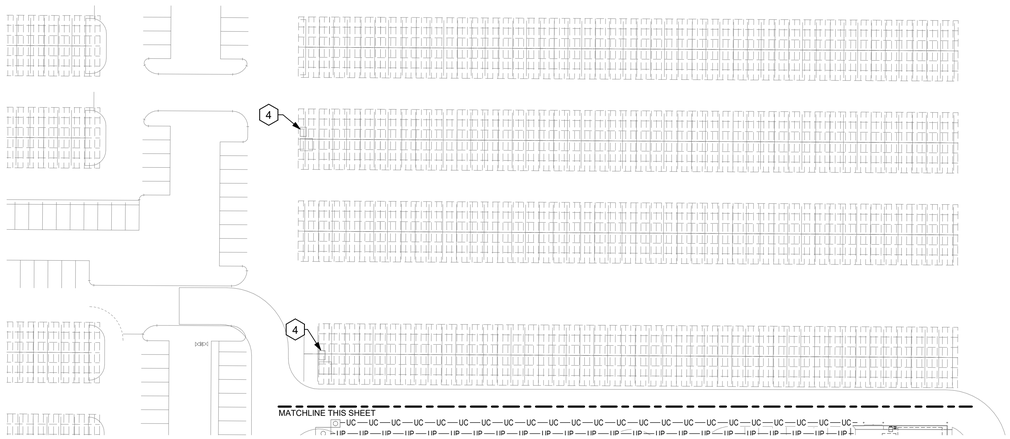

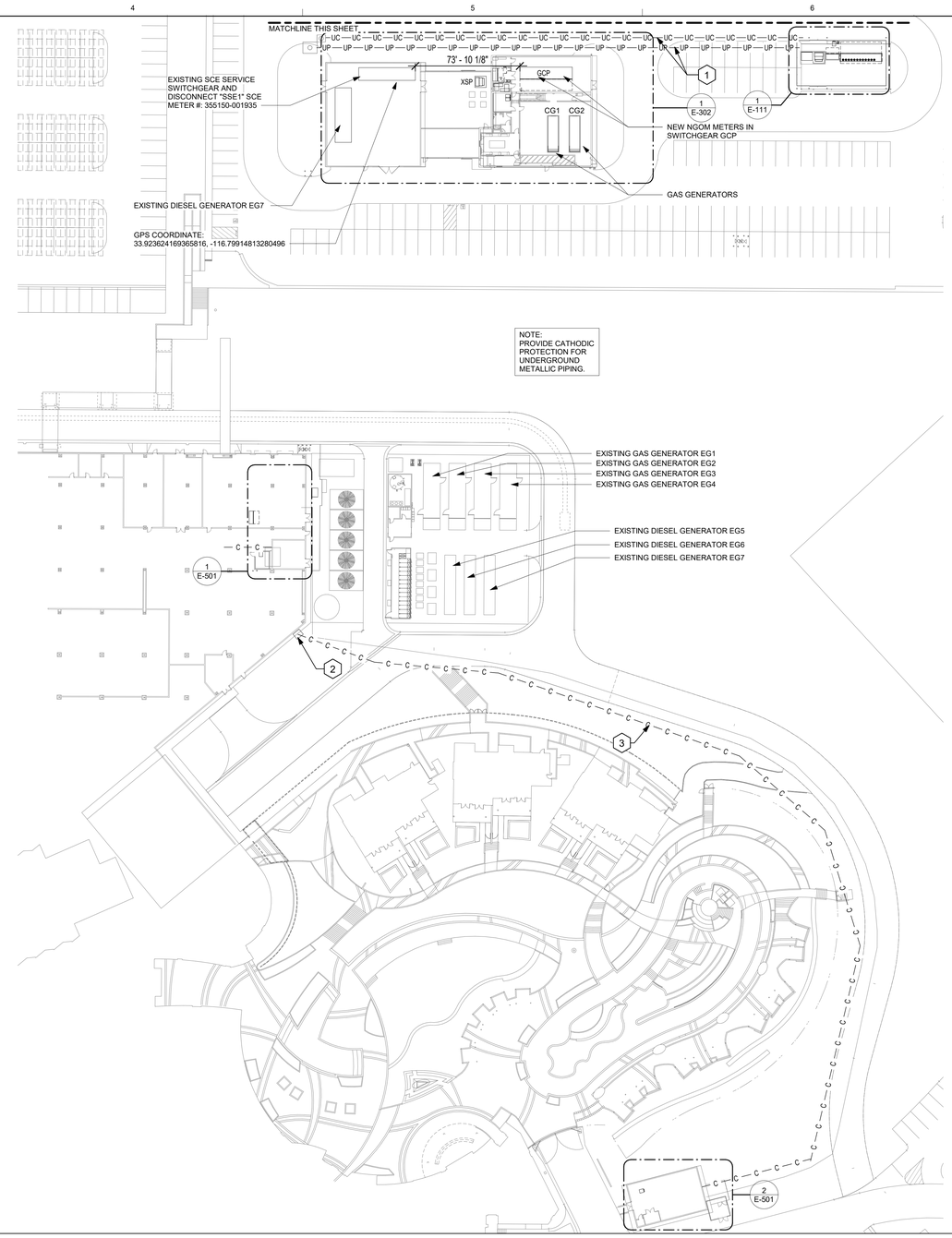

1 ELECTRICAL SITE PLAN

1" = 40'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	COORDINATE POWER FEEDS, LOCATIONS, AND WIRING HARNESS CONFIGURATION WITH FURNITURE VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
D	VERIFY MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
E	ELECTRICAL CONTRACTOR TO PROVIDE DIMENSIONED SHOP DRAWINGS OF ALL ELECTRICAL ROOMS AND PANEL LOCATIONS PRIOR TO ROUGH-IN.
F	COORDINATE ALL WALL MOUNTED ELECTRICAL DEVICE LOCATIONS WITH ADA REQUIREMENTS.
G	MAINTAIN WORKING CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER CEC 110.26.
H	COORDINATE ALL BOXES AND CONDUITS FOR AV EQUIPMENT WITH AV SHOP DRAWINGS PRIOR ROUGH IN.
I	IF ANY EXPOSED CONDUIT IS REQUIRED, CONTRACTOR AND SUBCONTRACTORS TO COORDINATE WITH FURNITURE DRAWINGS. NO EXPOSED CONDUIT TO BE INSTALLED ON WALLS WITH WALL MOUNTED FURNISHINGS AND ACCESSORIES (FLAT SCREENS, MARKERBOARDS, TACKBOARDS, ARTWORK, ETC.)

SHEET KEYNOTES

1	ROUTE CONDUITS TO BESS PAD. (2) 5"C. FOR PRIMARY CIRCUIT TO XBESS AND (4) 4"C. FOR COMMUNICATION TO SITE CONTROLLER ENCLOSURE.
2	PROVIDE (2) 4"C. WITH PULL STRING FROM EXISTING TELECOM PULL BOX AT TOP OF WALL TO COMMUNICATION DUCT BANK.
3	PROVIDE (2) 4"C. FOR COMM/CONTROLS FROM EXISTING PLANT TO POOL BUILDING. ROUTE IN COMMON TRENCH WITH MECHANICAL PIPING. MAINTAIN 12" SEPARATION FROM MECHANCIAL PIPING. PROVIDE PULL BOXES AS REQUIRED.
4	APPROXIMATE LOCATION OF EXISTING PHOTOVOLTAIC AC BOARD. CONTRACTOR TO DISABLE SHUNT TRIP CAPABILITIES IN MAIN BREAKER. SHUNT TRIP FUNCTIONALITY TO BE RELOCATED TO THE BREAKER AT THE 12KV LEVEL.

0 20' 40' 80'
SCALE: 1" = 40'

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

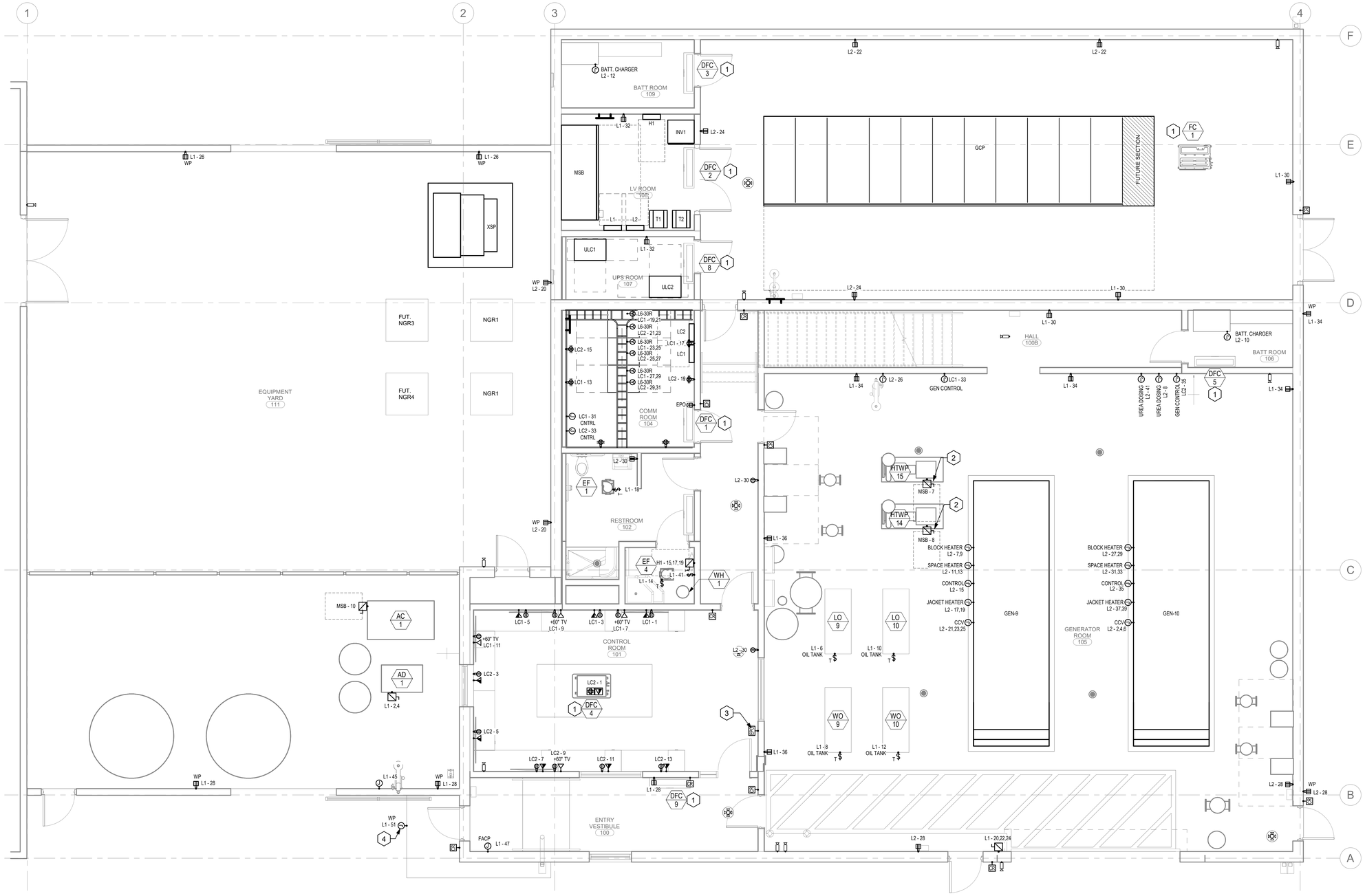
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
OVERALL SITE PLAN

Sheet No.
ES-001



1 LEVEL 01 - POWER FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	COORDINATE POWER FEEDS, LOCATIONS, AND WIRING HARNESS CONFIGURATION WITH FURNITURE VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
D	VERIFY MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
E	ELECTRICAL CONTRACTOR TO PROVIDE DIMENSIONED SHOP DRAWINGS OF ALL ELECTRICAL ROOMS AND PANEL LOCATIONS PRIOR TO ROUGH-IN.
F	COORDINATE ALL WALL MOUNTED ELECTRICAL DEVICE LOCATIONS WITH ADA REQUIREMENTS.
G	MAINTAIN WORKING CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER CEC 110.26.
H	COORDINATE ALL BOXES AND CONDUITS FOR AV EQUIPMENT WITH AV SHOP DRAWINGS PRIOR ROUGH IN.
I	IF ANY EXPOSED CONDUIT IS REQUIRED, CONTRACTOR AND SUBCONTRACTORS TO COORDINATE WITH FURNITURE DRAWINGS. NO EXPOSED CONDUIT TO BE INSTALLED ON WALLS WITH WALL MOUNTED FURNISHINGS AND ACCESSORIES (FLAT SCREENS, MARKERBOARDS, TACKBOARDS, ARTWORK, ETC.)

SHEET KEYNOTES

1	UNIT POWERED FROM ASSOCIATED EXTERIOR UNIT. PROVIDE RACEWAY BETWEEN UNITS PER MANUFACTURER INSTSALLATION INSTRUCTIONS.
2	PROVIDE VFD WITH INTEGRAL DISCONNECT.
3	PROVIDE EPO PER FIRE MARCHAL REQUIREMENTS. VERIFY EXACT LOCAITON AND REQUIREMENTS WITH FIRE MARSHAL PRIOR TO ROUGH-IN.
4	PROVIDE WP J-BOX FOR SIGNAGE POWER. ROUTE CIRCUIT VIA PHOTOCELL.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL POWER PLAN - LEVEL 01

Sheet No.
E-101

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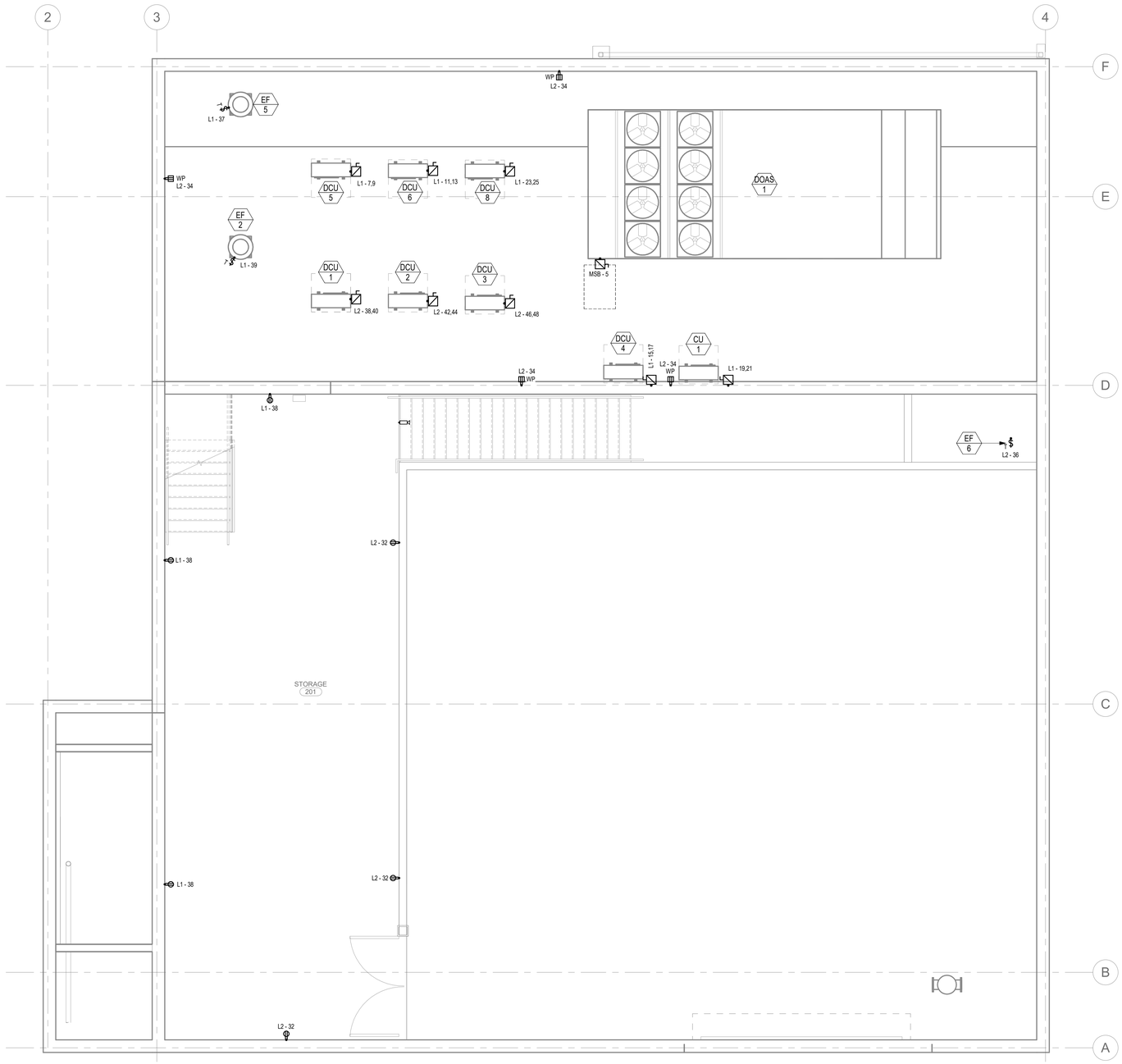

1 MEZZANINE - POWER FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	COORDINATE POWER FEEDS, LOCATIONS, AND WIRING HARNESS CONFIGURATION WITH FURNITURE VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
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F	COORDINATE ALL WALL MOUNTED ELECTRICAL DEVICE LOCATIONS WITH ADA REQUIREMENTS.
G	MAINTAIN WORKING CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER CEC 110.26.
H	COORDINATE ALL BOXES AND CONDUITS FOR AV EQUIPMENT WITH AV SHOP DRAWINGS PRIOR ROUGH IN.
I	IF ANY EXPOSED CONDUIT IS REQUIRED, CONTRACTOR AND SUBCONTRACTORS TO COORDINATE WITH FURNITURE DRAWINGS. NO EXPOSED CONDUIT TO BE INSTALLED ON WALLS WITH WALL MOUNTED FURNISHINGS AND ACCESSORIES (FLAT SCREENS, MARKERBOARDS, TACKBOARDS, ARTWORK, ETC.)

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title

ELECTRICAL POWER PLAN - MEZZANINE

Sheet No.

E-102

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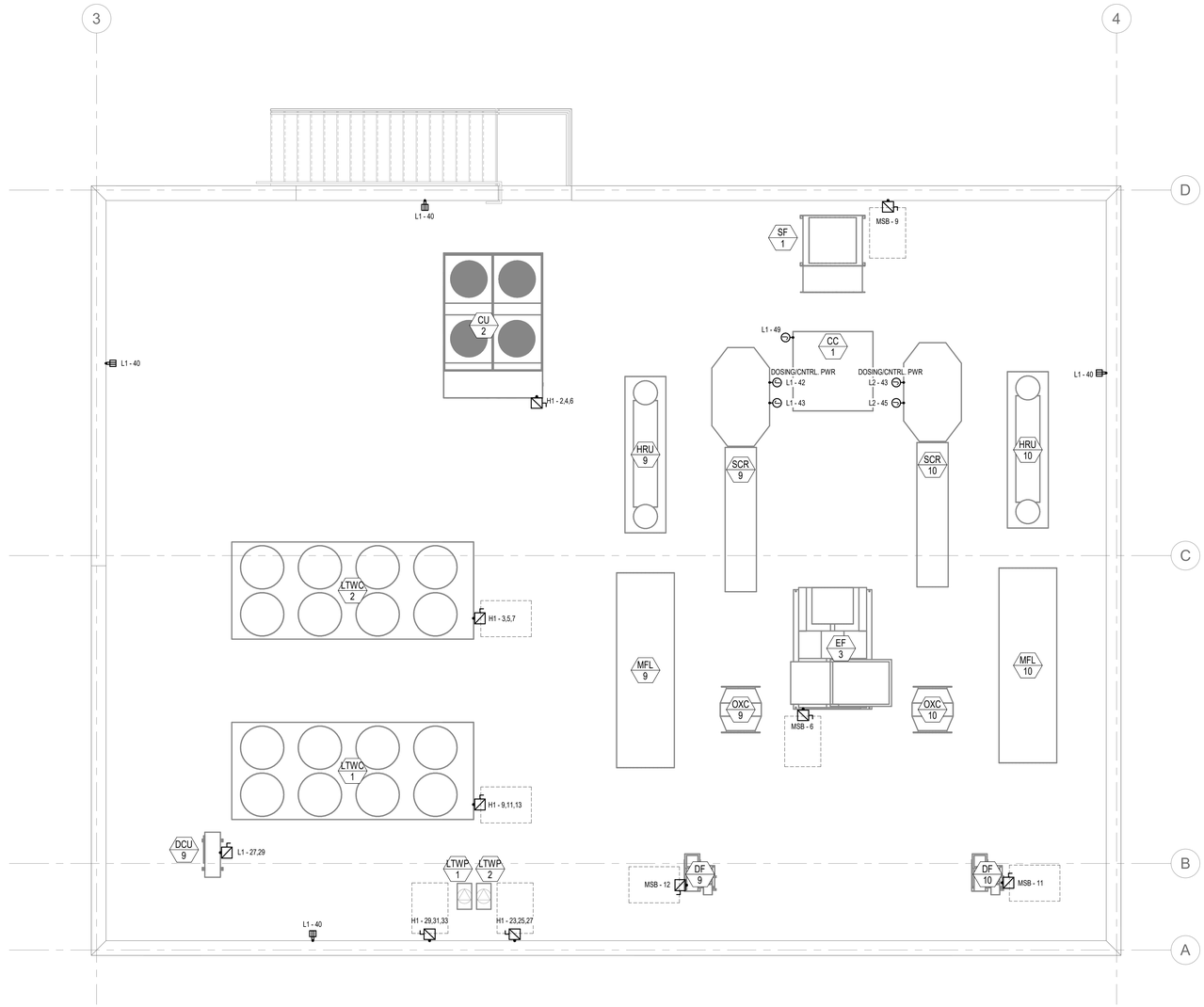

1 ROOF - POWER FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	COORDINATE POWER FEEDS, LOCATIONS, AND WIRING HARNESS CONFIGURATION WITH FURNITURE VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
D	VERIFY MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
E	ELECTRICAL CONTRACTOR TO PROVIDE DIMENSIONED SHOP DRAWINGS OF ALL ELECTRICAL ROOMS AND PANEL LOCATIONS PRIOR TO ROUGH-IN.
F	COORDINATE ALL WALL MOUNTED ELECTRICAL DEVICE LOCATIONS WITH ADA REQUIREMENTS.
G	MAINTAIN WORKING CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER CEC 110.26.
H	COORDINATE ALL BOXES AND CONDUITS FOR AV EQUIPMENT WITH AV SHOP DRAWINGS PRIOR ROUGH IN.
I	IF ANY EXPOSED CONDUIT IS REQUIRED, CONTRACTOR AND SUBCONTRACTORS TO COORDINATE WITH FURNITURE DRAWINGS. NO EXPOSED CONDUIT TO BE INSTALLED ON WALLS WITH WALL MOUNTED FURNISHINGS AND ACCESSORIES (FLAT SCREENS, MARKERBOARDS, TACKBOARDS, ARTWORK, ETC.)

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title

ELECTRICAL POWER PLAN - ROOF

Sheet No.

E-103

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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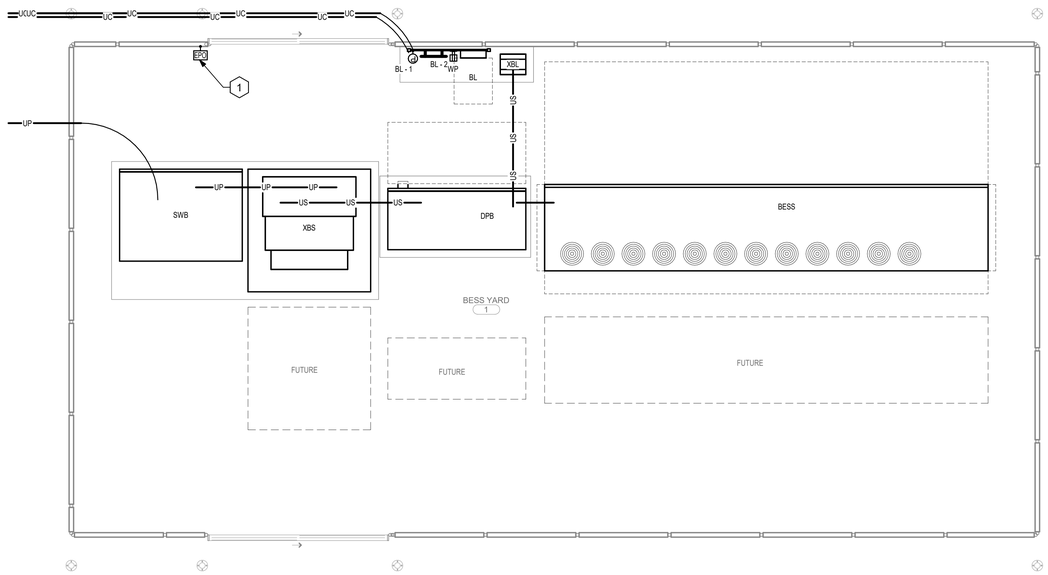
NOTE:
PLAN IS MEANT TO DEPICT MAJOR CONDUIT RUNS. CONTRACTOR TO PROVIDE DETAILED UNDERGROUND PLAN PRIOR TO EXCAVATION.



1 LEVEL 01 - BESS FLOOR PLAN

1 / ES-001 | 1/4" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
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H	COORDINATE ALL BOXES AND CONDUITS FOR AV EQUIPMENT WITH AV SHOP DRAWINGS PRIOR ROUGH IN.
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SHEET KEYNOTES

1	PROVIDE EPO PER FIRE MARCHAL REQUIREMENTS. VERIFY EXACT LOCAITON AND REQUIREMENTS WITH FIRE MARSHAL PRIOR TO ROUGH-IN.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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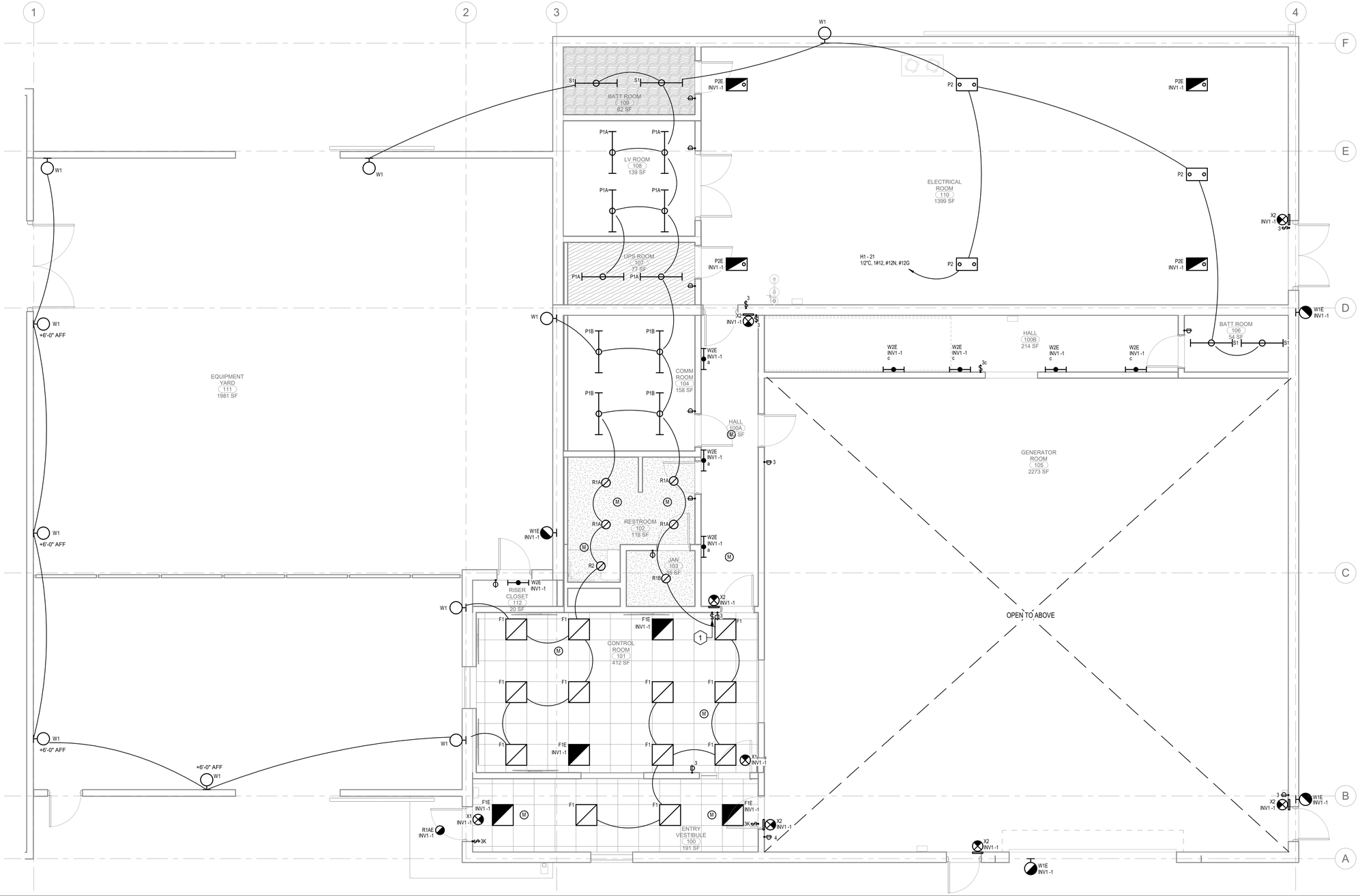
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL POWER PLAN - BESS YARD

Sheet No.
E-111



1 LEVEL 01 - LIGHTING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - LIGHTING

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	ELECTRICAL CONTRACTOR TO PROVIDE LIGHTING CONTROL MANUFACTURER'S SHOP DRAWINGS INDICATING DEVICE TYPES, LOCATIONS, AND CONNECTIONS FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
D	ALL CORRIDOR AND STAIRS LIGHTING MOTION SENSORS SHALL REDUCE LIGHTING IN CORRIDOR BY 50% WHEN UNOCCUPIED.
E	VERIFY ALL FINISHES AND MOUNTING WITH ARCHITECT PRIOR TO PROCUREMENT.
F	ALL CEILING OCCUPANCY SENSORS TO BE 2FT MINIMUM FROM MECHANICAL DIFFUSES. FOLLOW MANUFACTURERS RECOMMENDATIONS.
G	ALL EXTERIOR LIGHTIN CIRCUITS ARE TO BE ROUTED VIA PHOTOCELL/TIMECLOCK UNO.

SHEET KEYNOTES

1	TOGGLE SWITCH CONTROLS LIGHTING IN HALL 100A ON SWITCHLEG 'a'.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

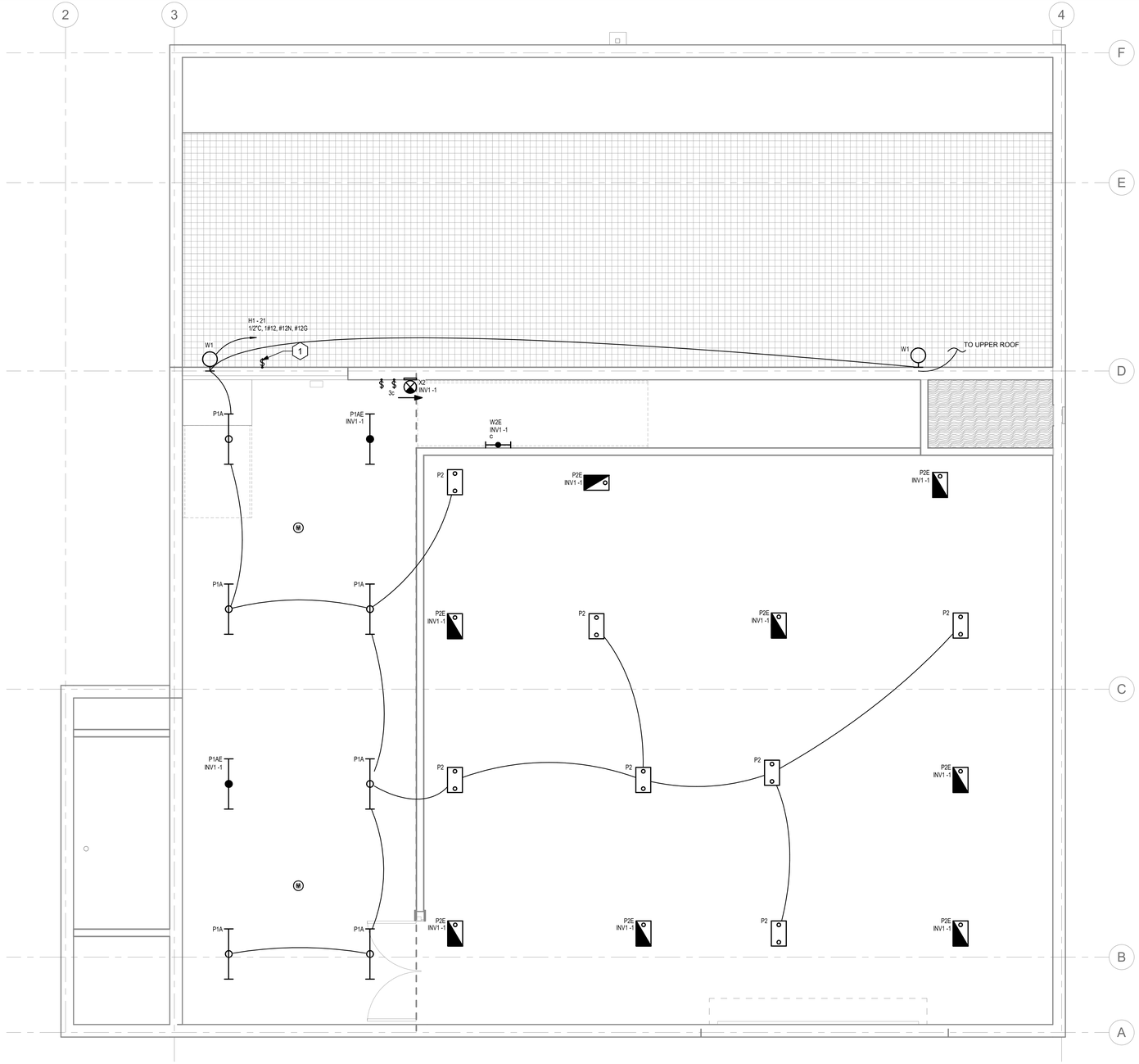
REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80% 2026.03.19

Sheet Title
ELECTRICAL LIGHTING PLAN - LEVEL 1

Sheet No.
E-201

6/5/2026 1:25:47 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



1 MEZZANINE - LIGHTING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - LIGHTING

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
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G	ALL EXTERIOR LIGHTIN CIRCUITS ARE TO BE ROUTED VIA PHOTOCELL/TIMECLOCK UNO.

SHEET KEYNOTES

1	ROUTE ROOF FIXUTURES VIA SWITCH AND PHOTOCELL. SWITCH TO HAVE ON /OFF CAPABILITY AND PHOTOCELL TO BE OFF ONLY.

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL LIGHTING PLAN - MEZZANINE

Sheet No.
E-202

6/5/2026 1:26:48 PM
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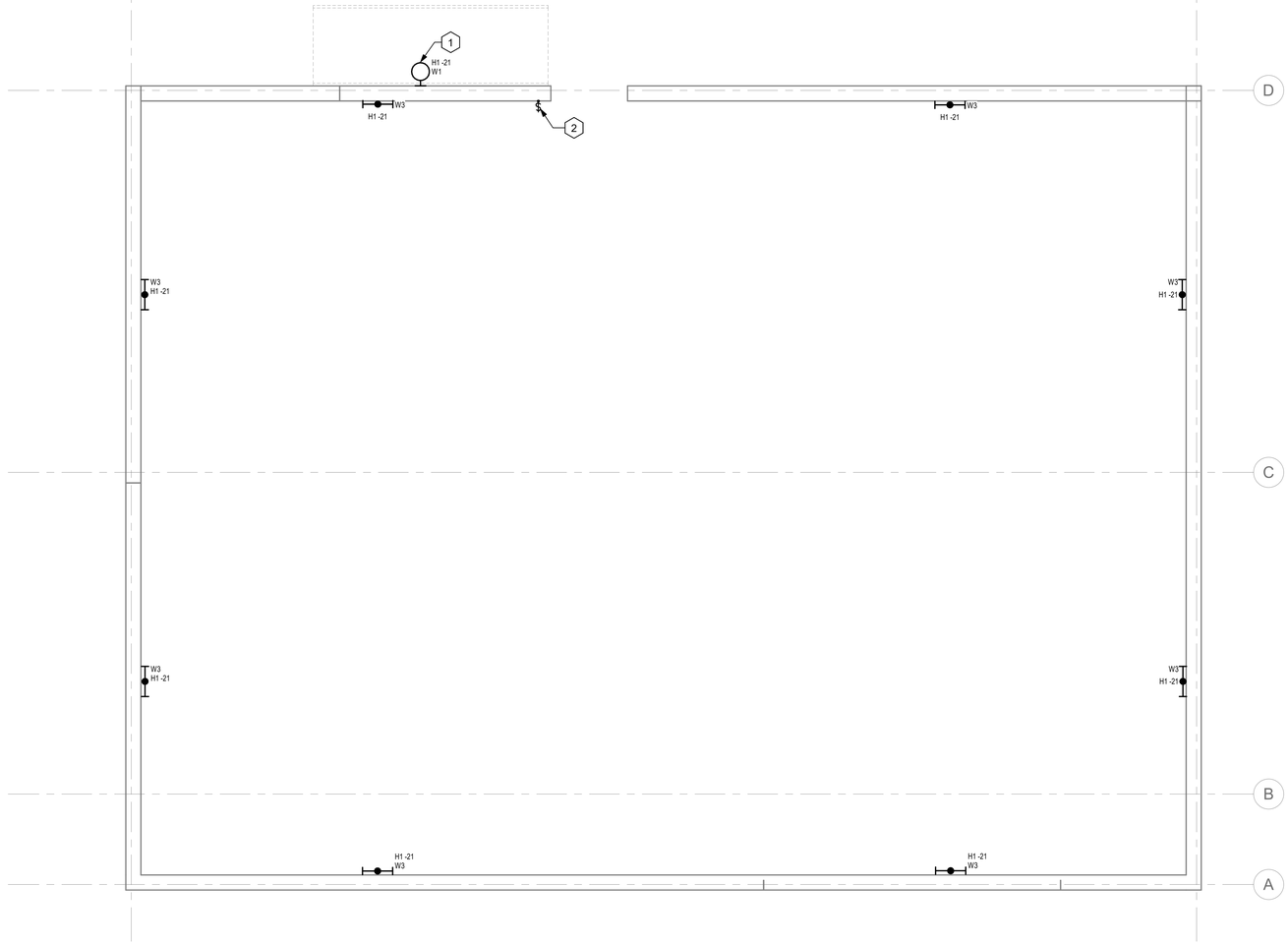

1 ROOF - LIGHTING FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - LIGHTING

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
C	ELECTRICAL CONTRACTOR TO PROVIDE LIGHTING CONTROL MANUFACTURER'S SHOP DRAWINGS INDICATING DEVICE TYPES, LOCATIONS, AND CONNECTIONS FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
D	ALL CORRIDOR AND STAIRS LIGHTING MOTION SENSORS SHALL REDUCE LIGHTING IN CORRIDOR BY 50% WHEN UNOCCUPIED.
E	VERIFY ALL FINISHES AND MOUNTING WITH ARCHITECT PRIOR TO PROCUREMENT.
F	ALL CEILING OCCUPANCY SENSORS TO BE 2FT MINIMUM FROM MECHANICAL DIFFUSES. FOLLOW MANUFACTURERS RECOMMENDATIONS.
G	ALL EXTERIOR LIGHTIN CIRCUITS ARE TO BE ROUTED VIA PHOTOCELL/TIMECLOCK UNO.

SHEET KEYNOTES

1	FIXTURE MOUNTED ABOVE CENTER OF STAIRCASE BELOW, SUCH THAT THE FIXTURE IS AT LEAST 6'-8" ABOVE STAIR TREAD AS MEASURED FROM BOTTOM OF THE FIXTURE. CONTROL WITH FIXTURES ON LOWER ROOF.
2	ROUTE ROOF FIXUTURES VIA SWITCH AND PHOTOCELL. SWITCH TO HAVE ON /OFF CAPABILITY AND PHOTOCELL TO BE OFF ONLY.

0 20'-0" 40'-0" 160'0"

SSCALE: 1" = 40'0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

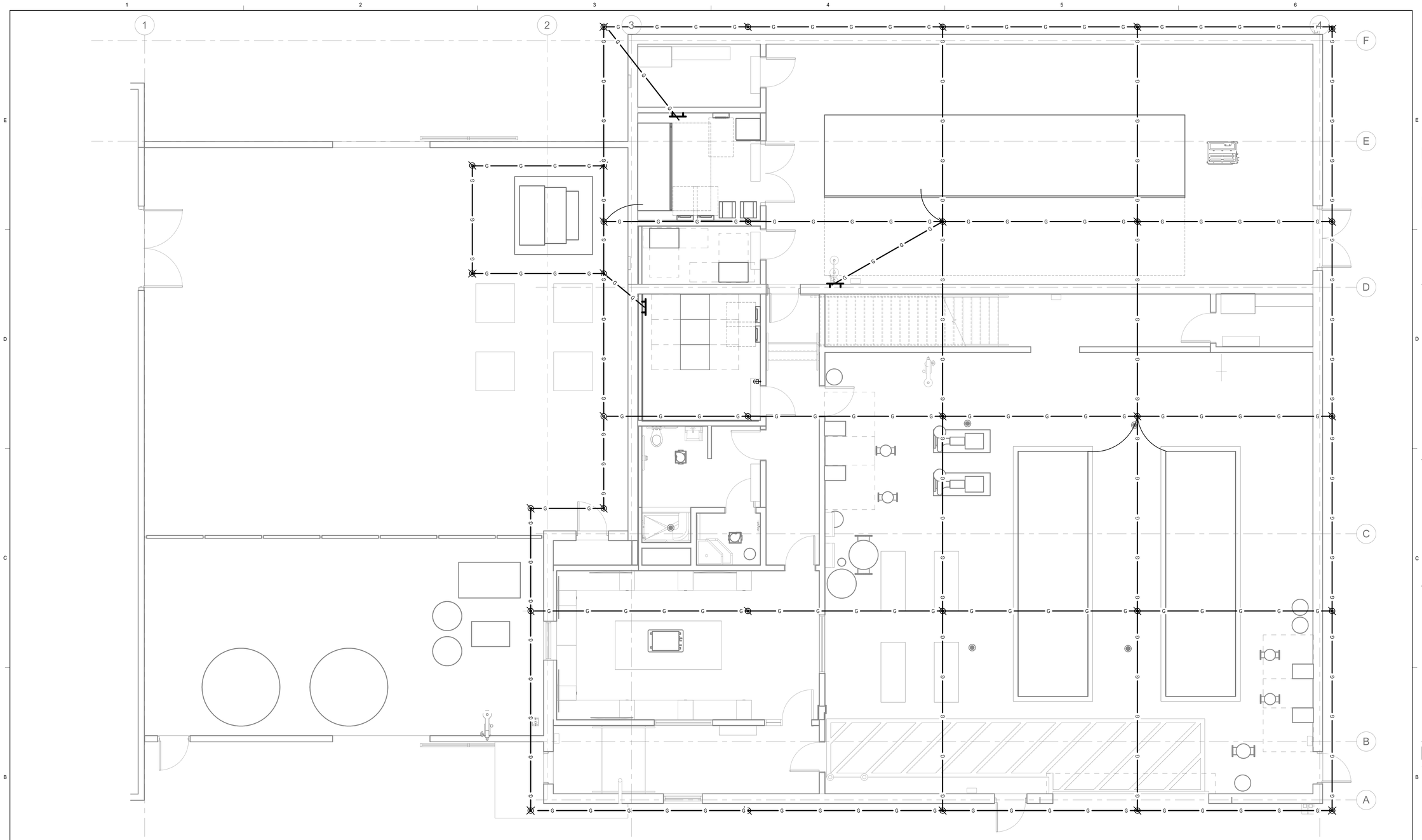
PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title

ELECTRICAL LIGHTING PLAN - ROOF

Sheet No.

E-203



1 LEVEL 01 - GROUNDING PLAN

1/4" = 1'-0"

GENERAL NOTES - GROUNDING

A	"G" LINETYPE INDICATES #4/0 BARE COPPER 30" BELOW GRADE.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"

SCALE: 1/4" = 1'-0"

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title

ELECTRICAL GROUNDING PLAN LEVEL 1 - NORTH

Sheet No.

E-301

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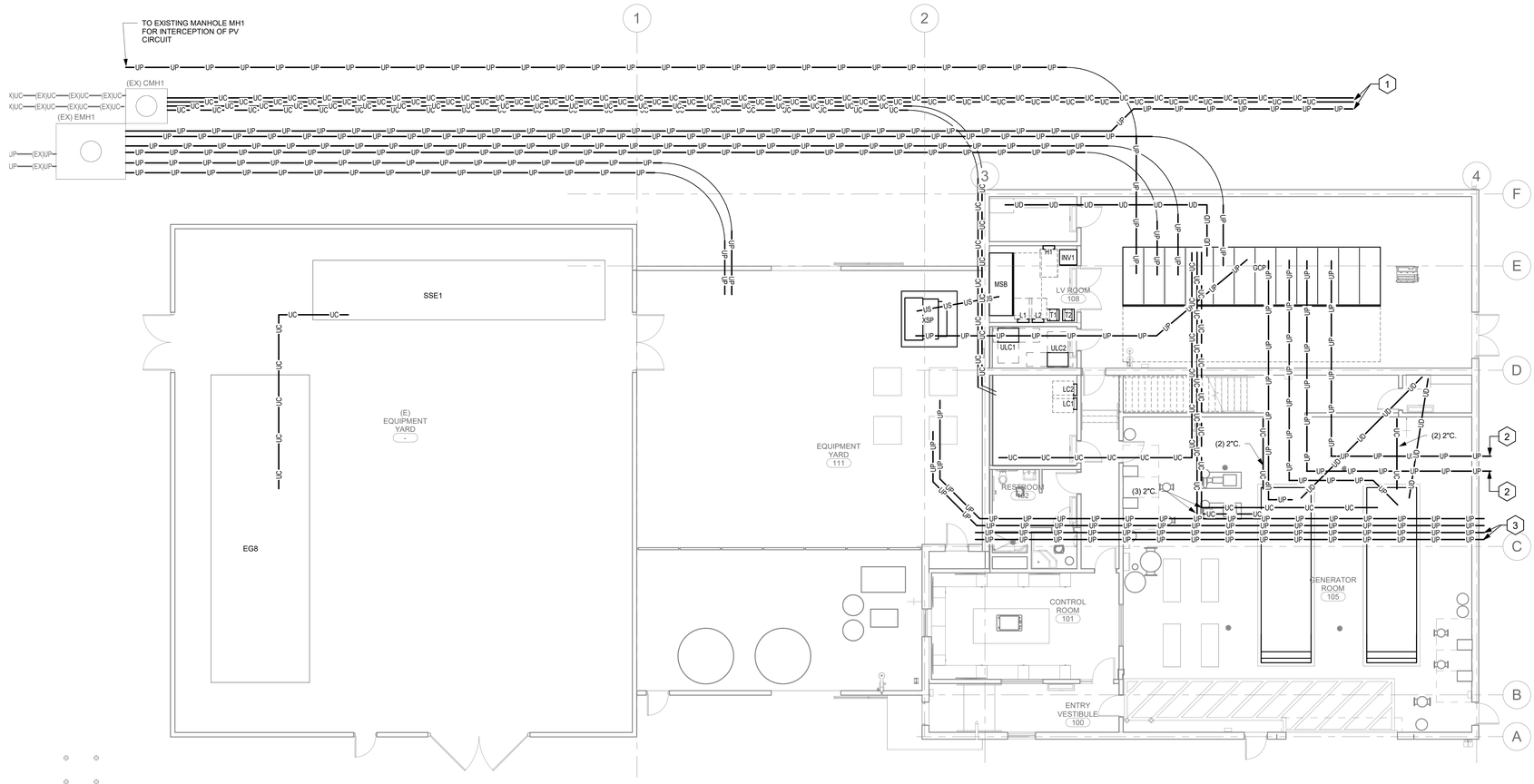

NOTE:
PLAN IS MEANT TO DEPICT MAJOR CONDUIT RUNS. CONTRACTOR TO PROVIDE DETAILED UNDERGROUND PLAN PRIOR TO EXCAVATION.

1 LEVEL 01 - UNDERGROUND CONDUIT PLAN

1 / ES-001 1/8" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
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SHEET KEYNOTES

1	ROUTE CONDUITS TO BESS PAD. (2) 5"C. FOR PRIMARY CIRCUIT TO XBESS AND (4) 4"C. FOR COMMUNICATION TO SITE CONTROLLER ENCLOSURE.
2	PROVIDE (2) 4"C. WITH PULL STRING STUBBED FROM GEAR TO OUTSIDE BUILDING FOOTPRINT FOR FUTURE EXTENSION.
3	PROVIDE (2) 4"C. WITH PULL STRING STUBBED 4' OUTSIDE BUILDING FOOTPRINT FOR FUTURE NEITRAL GROUND RESISTORS.

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
UNDERGROUND CONDUIT PLAN

Sheet No.
E-302

6/5/2026 1:25:51 PM
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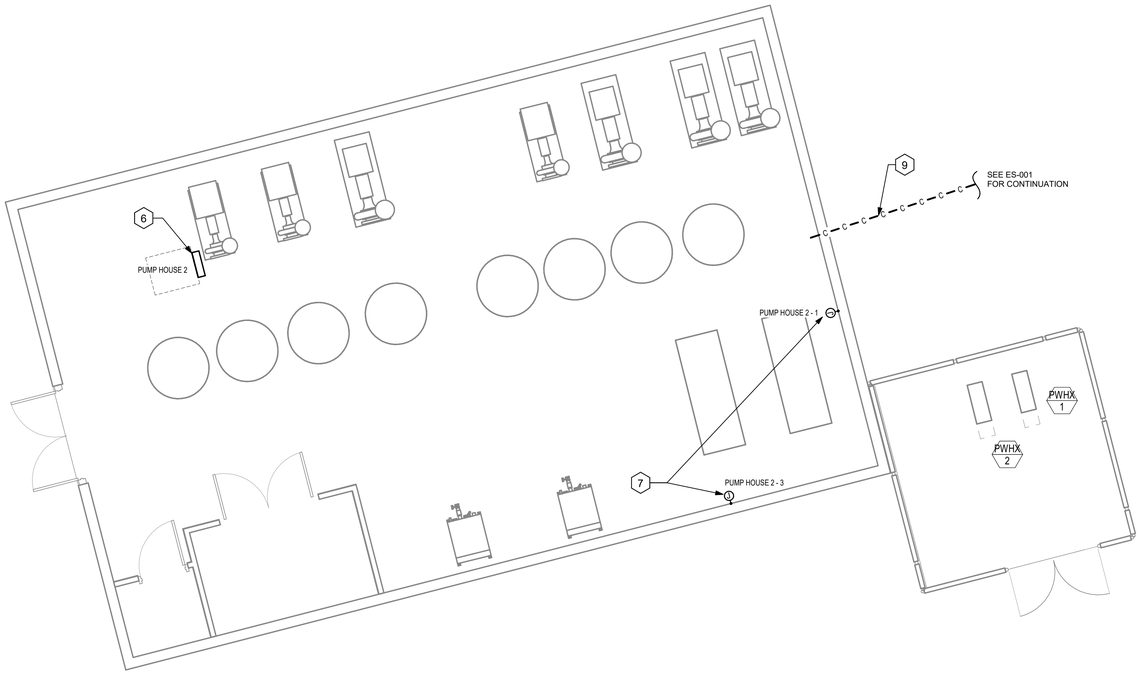
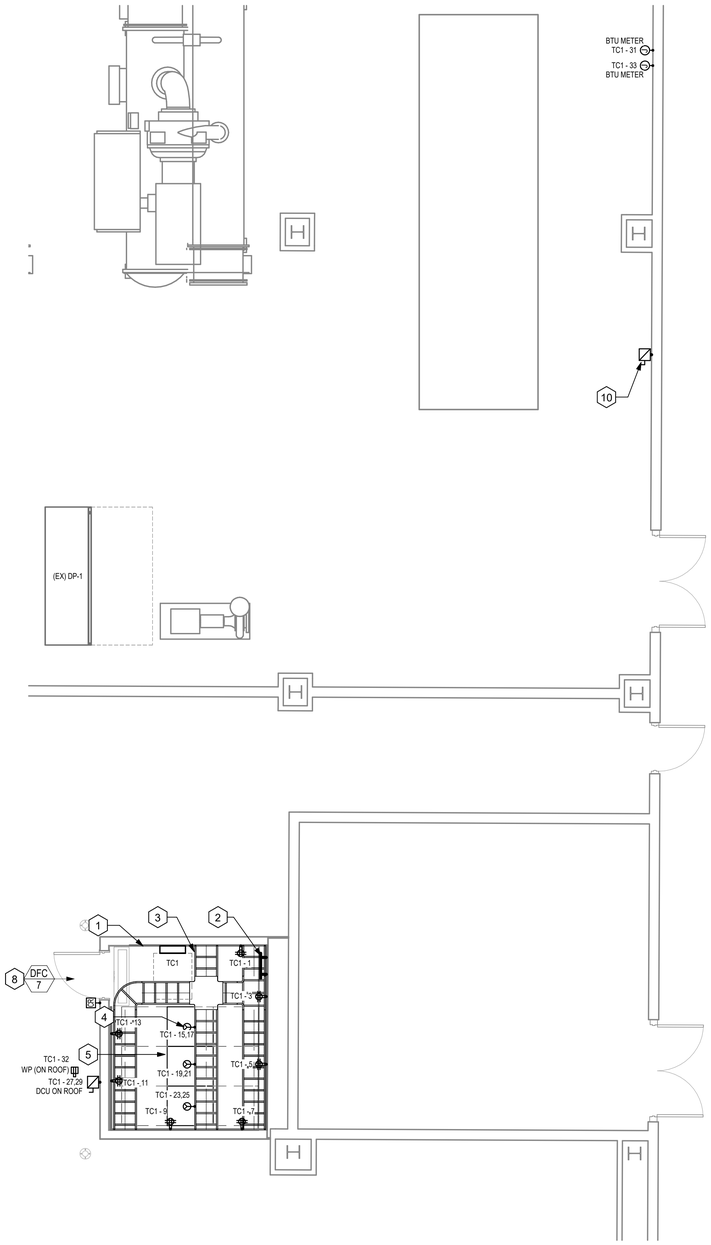


2 POOL BUILDING ENLARGED PLAN

1 / ES-001 | 1/4" = 1'-0"



1 TELECOM 1300N ENLARGED PLAN

1 / ES-001 | 1/4" = 1'-0"

GENERAL NOTES - POWER

A	ALL 20A 120V BRANCH CIRCUITS THAT EXCEED 100' SHALL USE #10AWG CONDUCTORS.
B	ALL 20A 277V BRANCH CIRCUITS THAT EXCEED 150' SHALL USE #10AWG CONDUCTORS.
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SHEET KEYNOTES

1	PROVIDE 4' X 8' 3/4" FIRE RATED PLYWOOD BACKBOARD ON ALL WALLS.
2	PROVIDE 12"X1/4" GROUND BAR WITH (1) #3/0 AWG. GROUND TO BUILDING TELECOMMUNICATION GROUNDING ELECTRODE. MOUNT 10" ABOVE CABLE TRAY WHERE APPLICABLE.
3	12" LADDER TYPE CABLE TRAY.
4	PROVIDE 208V-2P TWIST LOCK RECEPTACLE L6-30R. MOUNT RECEPTACLE ABOVE EACH EQUIPMENT RACK.
5	(3)42RU TWO-POST DATA RACKS HORIZONTAL CABLE MANAGERS AND POWER STRIPS.
6	APPROXIMATE LOCATION OF EXISTING POOL HOUSE #2 PANEL. USE EXISTING SPACE IN PANEL WITH NEW 20A/1P BREAKERS FOR CIRCUITS SHOWN ON PLANS.
7	APPROXIMATE LOCATION OF CONTROL/VALVE POWER. VERIFY EXACT LCOATION WITH MECHANICAL AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
8	UNIT POWERED FROM ASSOCIATED EXTERIOR UNIT. PROVIDE RACEWAY BETWEEN UNITS PER MANUFACTURER INSTSALLATION INSTRUCTIONS.
9	PROVIDE (2) 4"C. TO COMMUNICATION HEADEND. COORDINATE WITH INTEGRATORS PRIOR TO ROUGH-IN.
10	INTERCEPT EXISTING FEEDER TO ABSORBER AND PROVIDE NEW VFD/DISCONNECT. EXTEND EXISTING CABLING AS NECESSARY. VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.

SHEET KEYNOTES

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

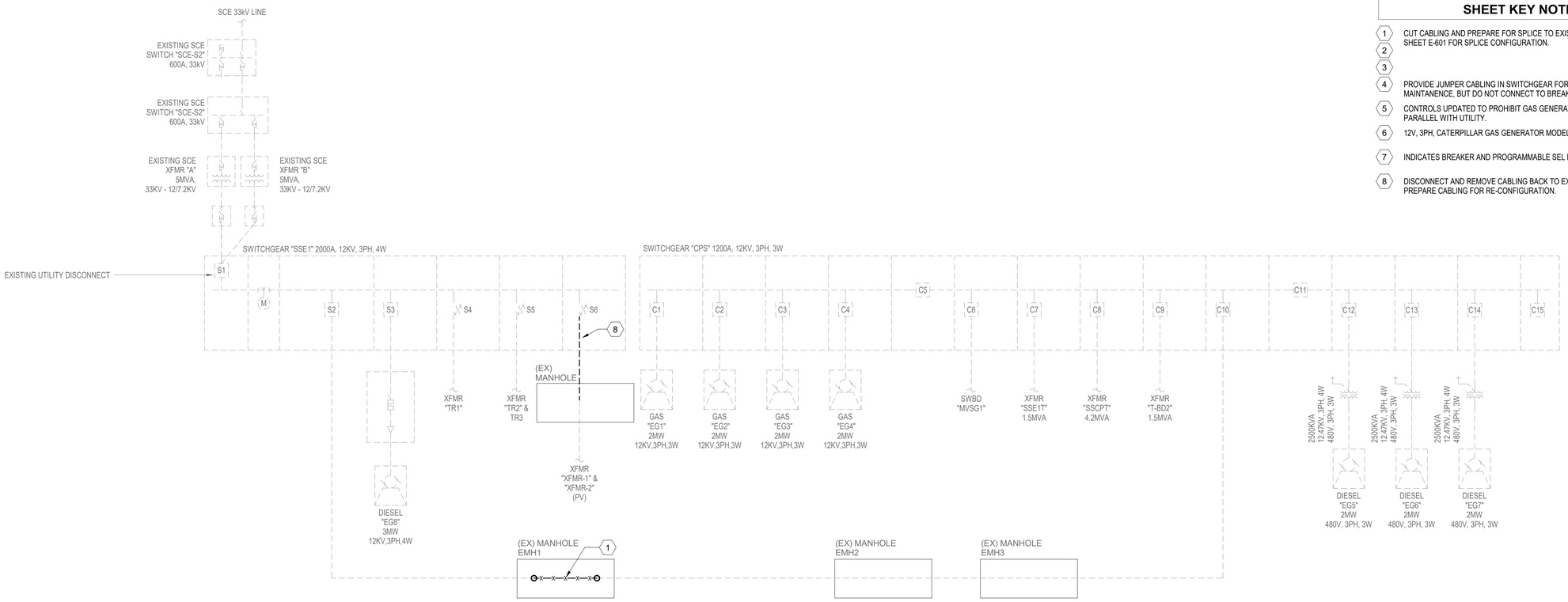
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ENLARGED ELECTRICAL PLANS

Sheet No.
E-501



SHEET KEY NOTES

1. CUT CABLING AND PREPARE FOR SPLICE TO EXISTING CABLING. SEE SHEET E-601 FOR SPLICE CONFIGURATION.
2.
3.
4. PROVIDE JUMPER CABLING IN SWITCHGEAR FOR TESTING AND MAINTANENCE, BUT DO NOT CONNECT TO BREAKERS.
5. CONTROLS UPDATED TO PROHIBIT GAS GENERATOR FROM OPERATING IN PARALLEL WITH UTILITY.
6. 12V, 3PH, CATERPILLAR GAS GENERATOR MODEL G3520H
7. INDICATES BREAKER AND PROGRAMMABLE SEL RELAY. (TYPICAL)
8. DISCONNECT AND REMOVE CABLING BACK TO EXISTING PV MANHOLE. PREPARE CABLING FOR RE-CONFIGURATION.

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REGISTERED PROFESSIONAL ENGINEER
GARY F. PURVEY
No. 26745
Exp. 03/31/27
ELECTRICAL
STATE OF CALIFORNIA

BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL SINGLE LINE DIAGRAM - DEMO

Sheet No.
E-600

6/5/2026 1:23:52 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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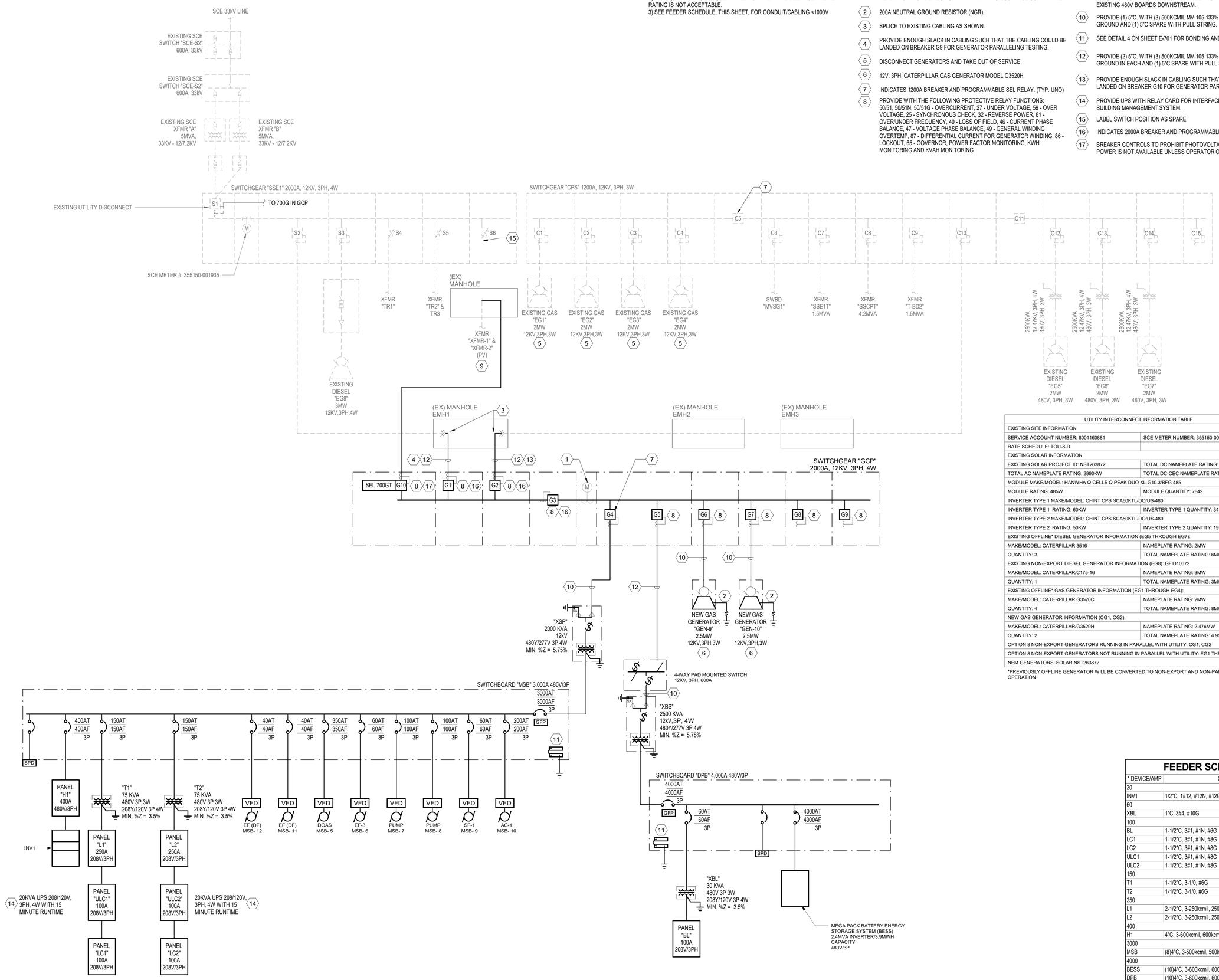
SHEET KEY NOTES

1) ALL CONDUCTORS ARE COPPER UNO.
2) ALL EQUIPMENT TO BE FULLY RATED FOR THE AVAILABLE FAULT. SERIES RATING IS NOT ACCEPTABLE.
3) SEE FEEDER SCHEDULE, THIS SHEET, FOR CONDUIT/CABLING <1000V

SHEET KEY NOTES

1. EMPTY SECTION WITH BUSSING PASS THROUGH FOR FOR FUTURE METERING. PROVIDE SECTION WITH TRANSITION/CONTROL COMPARTMENT
2. 200A NEUTRAL GROUND RESISTOR (NGR).
3. SPLICE TO EXISTING CABLING AS SHOWN.
4. PROVIDE ENOUGH SLACK IN CABLING SUCH THAT THE CABLING COULD BE LANDED ON BREAKER G9 FOR GENERATOR PARALLELING TESTING.
5. DISCONNECT GENERATORS AND TAKE OUT OF SERVICE.
6. 12V, 3PH, CATERPILLAR GAS GENERATOR MODEL G3520H.
7. INDICATES 1200A BREAKER AND PROGRAMMABLE SEL RELAY. (TYP. UNO)
8. PROVIDE WITH THE FOLLOWING PROTECTIVE RELAY FUNCTIONS: 50/51, 50/51N, 50/51G - OVERCURRENT, 27 - UNDER VOLTAGE, 59 - OVER VOLTAGE, 25 - SYNCHRONOUS CHECK, 32 - REVERSE POWER, 81 - OVER/UNDER FREQUENCY, 40 - LOSS OF FIELD, 46 - CURRENT PHASE BALANCE, 47 - VOLTAGE PHASE BALANCE, 49 - GENERAL WINDING OVERTEMP, 87 - DIFFERENTIAL CURRENT FOR GENERATOR WINDING, 86 - LOCKOUT, 65 - GOVERNOR, POWER FACTOR MONITORING, KWH MONITORING AND KVAH MONITORING
9. TO EXISTING NEM GENERATOR. SEE UTILITY INTERCONNECTION TABLE FOR ELECTRICAL CHARACTERISTICS. DISABLE SHUNT TRIP OPERATIONS AT EXISTING 480V BOARDS DOWNSTREAM.
10. PROVIDE (1) 5"C. WITH (3) 500KCMIL MV-105 133% EPR WITH #4/0 600V GROUND AND (1) 5"C SPARE WITH PULL STRING.
11. SEE DETAIL 4 ON SHEET E-701 FOR BONDING AND GROUNDING DETAIL.
12. PROVIDE (2) 5"C. WITH (3) 500KCMIL MV-105 133% EPR WITH #4/0 600V GROUND IN EACH AND (1) 5"C SPARE WITH PULL STRING.
13. PROVIDE ENOUGH SLACK IN CABLING SUCH THAT THE CABLING COULD BE LANDED ON BREAKER G10 FOR GENERATOR PARALLELING TESTING.
14. PROVIDE UPS WITH RELAY CARD FOR INTERFACE WITH CONTROL AND BUILDING MANAGEMENT SYSTEM.
15. LABEL SWITCH POSITION AS SPARE
16. INDICATES 2000A BREAKER AND PROGRAMMABLE SEL RELAY
17. BREAKER CONTROLS TO PROHIBIT PHOTOVOLTAIC OPERATION WHILE SCE POWER IS NOT AVAILABLE UNLESS OPERATOR OVERRIDES.



UTILITY INTERCONNECT INFORMATION TABLE	
EXISTING SITE INFORMATION	
SERVICE ACCOUNT NUMBER: 8001160881	SCE METER NUMBER: 355150-001935
RATE SCHEDULE: TOU-8-D	
EXISTING SOLAR INFORMATION	
EXISTING SOLAR PROJECT ID: NST263872	TOTAL DC NAMEPLATE RATING: 3803.37KW
TOTAL AC NAMEPLATE RATING: 2990KW	TOTAL DC-CEC NAMEPLATE RATING: 3509.18KW
MODULE MAKE/MODEL: HANWHA Q.CELLS Q.PEAK DUO XL-G10.3/BFG 485	
MODULE RATING: 485W	MODULE QUANTITY: 7842
INVERTER TYPE 1 MAKE/MODEL: CHINT CPS SCA60KTL-DO/US-480	
INVERTER TYPE 1 RATING: 60KW	INVERTER TYPE 1 QUANTITY: 34
INVERTER TYPE 2 MAKE/MODEL: CHINT CPS SCA50KTL-DO/US-480	
INVERTER TYPE 2 RATING: 50KW	INVERTER TYPE 2 QUANTITY: 19
EXISTING OFFLINE* DIESEL GENERATOR INFORMATION (EG5 THROUGH EG7):	
MAKE/MODEL: CATERPILLAR 3516	NAMEPLATE RATING: 2MW
QUANTITY: 3	TOTAL NAMEPLATE RATING: 6MW
EXISTING NON-EXPORT DIESEL GENERATOR INFORMATION (EG8): GFID10672	
MAKE/MODEL: CATERPILLAR/C175-16	NAMEPLATE RATING: 3MW
QUANTITY: 1	TOTAL NAMEPLATE RATING: 3MW
EXISTING OFFLINE* GAS GENERATOR INFORMATION (EG1 THROUGH EG4):	
MAKE/MODEL: CATERPILLAR G3520C	NAMEPLATE RATING: 2MW
QUANTITY: 4	TOTAL NAMEPLATE RATING: 8MW
NEW GAS GENERATOR INFORMATION (CG1, CG2):	
MAKE/MODEL: CATERPILLAR/G3520H	NAMEPLATE RATING: 2.476MW
QUANTITY: 2	TOTAL NAMEPLATE RATING: 4.952MW
OPTION 8 NON-EXPORT GENERATORS RUNNING IN PARALLEL WITH UTILITY: CG1, CG2	
OPTION 8 NON-EXPORT GENERATORS NOT RUNNING IN PARALLEL WITH UTILITY: EG1 THROUGH EG8)	
NEM GENERATORS: SOLAR NST263872	

*PREVIOUSLY OFFLINE GENERATOR WILL BE CONVERTED TO NON-EXPORT AND NON-PARALLEL WITH UTILITY OPERATION

FEEDER SCHEDULE

* DEVICE/AMP	CALLOUT
20	
INV1	1/2"C, 1#12, #12N, #12G
60	
XBL	1"C, 3#4, #10G
100	
BL	1-1/2"C, 3#1, #1N, #6G
LC1	1-1/2"C, 3#1, #1N, #8G
LC2	1-1/2"C, 3#1, #1N, #8G
ULC1	1-1/2"C, 3#1, #1N, #8G
ULC2	1-1/2"C, 3#1, #1N, #8G
150	
T1	1-1/2"C, 3-1/0, #6G
T2	1-1/2"C, 3-1/0, #6G
250	
L1	2-1/2"C, 3-250kcmil, 250kcmil N, #2G
L2	2-1/2"C, 3-250kcmil, 250kcmil N, #2G
400	
H1	4"C, 3-600kcmil, 600kcmil N, #2G
3000	
MSB	(8)4"C, 3-500kcmil, 500kcmil N, 1/0G
4000	
BESS	(10)4"C, 3-600kcmil, 600kcmil N, 500kcmil G
DPB	(10)4"C, 3-600kcmil, 600kcmil N, 1/0G

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Sheet Title
SINGLE LINE DIAGRAM

Sheet No.
E-601

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER VOLTAGE DROP	FEEDER WIRE SIZE	BRANCH CIRCUIT MAX VOLTAGE DROP	BRANCH CIRCUIT CIRCUIT NUMBER	BRANCH CIRCUIT WIRE SIZE	TOTAL VOLTAGE DROP
DPB	0.09%	(10)600kcmil	0.00%	3	#10	0.09%
BESS	0.09%	(10)600kcmil				0.09%
XBL	0.09%	#4				0.09%
BL	0.00%	#1	0.09%	1	#12	0.09%
MSB	0.05%	(8)500kcmil	0.79%	11	#8	0.84%
H1	0.17%	600kcmil	0.62%	21	#12	0.80%
INV1	0.35%	#12	0.48%	1	#12	0.83%
T1	0.12%	1/0				0.12%
L1	0.17%	250kcmil	1.55%	20,22,24	#8	1.71%
ULC1	0.28%	#1				0.28%
LC1	0.48%	#1	0.46%	11	#12	0.93%
T2	0.15%	1/0				0.15%
L2	0.21%	250kcmil	1.44%	28	#12	1.64%
ULC2	0.34%	#1				0.34%
LC2	0.45%	#1	0.64%	35	#12	1.09%
TC1	0.00%		1.12%	31	#12	1.12%

FAULT CURRENT SCHEDULE

DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER SIZE	FEEDER LENGTH	TRANSFORMER KVA	TRANSFORMER Z%	TRANSFORMER FAULT AT PRIMARY	DIRECTLY CONNECTED MOTOR	MOTOR TOTAL
DPB	51,225	65,000	277 V	(10)600kcmil	21'				0	0
BESS	49,974	65,000	277 V	(10)600kcmil	32'				0	0
XBL	2,307	14,000	277 V	#4	26'	30	3.5	24,325	0	0
BL	2,245	10,000	120 V	#1	18'				0	0
MSB	44,564	65,000	277 V	(8)500kcmil	24'				2,206	3,582
H1	37,716	42,000	277 V	600kcmil	28'				1,118	2,882
INV1	6,661	14,000	277 V	#12	19'				0	42
T1	6,035	14,000	277 V	1/0	23'	75	3.5	31,983	0	513
L1	5,806	10,000	120 V	250kcmil	18'				490	513
ULC1	5,365	10,000	120 V	#1	19'				0	439
LC1	4,633	10,000	120 V	#1	33'				0	323
T2	5,695	14,000	277 V	1/0	27'	75	3.5	30,662	0	186
L2	5,443	10,000	120 V	250kcmil	20'				161	184
ULC2	4,997	10,000	120 V	#1	22'				0	155
LC2	4,617	10,000	120 V	#1	19'				0	131
TC1	UTILITY		120 V						54	UTILITY

EQUIPMENT SCHEDULE

NAME	VOLTAGE	POLES	LOAD	PANEL	CIRCUIT NUMBER	WIRE CALLOUT	FLA	MCA	MOCP/FUSE SIZE*
AC-1	480 V	3	105.50 kVA	MSB	10	2"C, 3-3/0, 3/0N, #6G	127 A	159 A	200 A
AD	208 V	2	3.20 kVA	L1	2,4	1/2"C, 2#10, #10N, #10G	15 A	19 A	30 A
BATTERY CHARGER	120 V	1	0.50 kVA	L2	12	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
BATTERY CHARGER	120 V	1	0.50 kVA	L2	10	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
BLOCK HEATER	208 V	2	5.00 kVA	L2	7,9	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
BLOCK HEATER	208 V	2	5.00 kVA	L2	27,29	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
CIRC PUMP	120 V	1	0.50 kVA	L1	41	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
CONTROL POWER	120 V	1	0.50 kVA	LC1	31	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
CONTROL POWER	120 V	1	0.50 kVA	LC2	33	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
CU	208 V	2	2.80 kVA	L1	19,21	1/2"C, 2#10, #10N, #10G	14 A	17 A	30 A
CU	480 V	3	53.20 kVA	H1	2,4,6	1-1/4"C, 3#2, #2N, #8G	65 A	80 A	90 A
DCU	208 V	2	2.80 kVA	L2	38,40	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L2	42,44	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L2	46,48	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L1	15,17	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L1	7,9	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L1	11,13	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	TC1	27,29	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L1	23,25	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
DCU	208 V	2	2.80 kVA	L1	27,29	1/2"C, 2#10, #10N, #10G	14 A	17 A	25 A
Device Name	208 V	3	0.00 kVA				0 A	0 A	0 A
DOAS	480 V	3	168.10 kVA	MSB	5	4"C, 3-500kcmil, 500kcmil N, #2G	251 A	314 A	350 A
DOSING/CNTRL.	120 V	1	0.50 kVA	L1	42	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
DOSING/CNTRL.	120 V	1	0.50 kVA	L1	43	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
DOSING/CNTRL.	120 V	1	0.50 kVA	L2	43	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
DOSING/CNTRL.	120 V	1	0.50 kVA	L2	45	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
DRY COOLER	480 V	3	79.80 kVA	H1	3,5,7	1-1/2"C, 3-1/0, 1/0N, #6G	96 A	120 A	150 A
DRY COOLER	480 V	3	79.80 kVA	H1	9,11,13	1-1/2"C, 3-1/0, 1/0N, #6G	96 A	120 A	150 A
EF (DF)	480 V	3	17.50 kVA	MSB	12	3/4"C, 3#8, #8N, #10G	21 A	26 A	40 A
EF (DF)	480 V	3	17.50 kVA	MSB	11	3/4"C, 3#8, #8N, #10G	21 A	26 A	40 A
EF-3	480 V	3	22.40 kVA	MSB	6	1-1/4"C, 3#4, #4N, #10G	27 A	34 A	60 A
EXHAUST FAN	120 V	1	0.50 kVA	L1	14	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EXHAUST FAN	120 V	1	0.50 kVA	L1	18	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EXHAUST FAN	120 V	1	0.50 kVA	L1	39	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EXHAUST FAN	120 V	1	0.50 kVA	L1	16	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EXHAUST FAN	120 V	1	0.50 kVA	L1	37	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EXHAUST FAN	120 V	1	0.00 kVA	L2	36	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EYE WASH	120 V	1	0.50 kVA	L2	26	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EYE WASH	120 V	1	0.50 kVA	L1	45	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EYE WASH	120 V	1	0.50 kVA	LC1	33	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
EYE WASH	120 V	1	0.50 kVA	LC2	35	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
GEN CCV	208 V	3	2.80 kVA	L2	21,23,25	1/2"C, 3#12, #12N, #12G	0 A	0 A	0 A
GEN CCV	208 V	3	2.80 kVA	L2	2,4,6	1/2"C, 3#12, #12N, #12G	0 A	0 A	0 A
GEN CONTROL	120 V	1	0.50 kVA	L2	15	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
GEN CONTROL	120 V	1	0.50 kVA	L2	35	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
GEN SPACE HEATER	208 V	2	5.00 kVA	L2	11,13	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
GEN SPACE HEATER	208 V	2	5.00 kVA	L2	31,33	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
JACKET HEATER	208 V	2	5.00 kVA	L2	17,19	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
JACKET HEATER	208 V	2	5.00 kVA	L2	37,39	3/4"C, 2#8, #8N, #10G	0 A	0 A	0 A
LTWP	480 V	3	6.30 kVA	H1	29,31,33	1/2"C, 3#12, #12N, #12G	8 A	10 A	20 A
LTWP	480 V	3	6.30 kVA	H1	23,25,27	1/2"C, 3#12, #12N, #12G	8 A	10 A	20 A
Noncontinuous	120 V	1	0.50 kVA	L1	47	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
Noncontinuous	120 V	1	0.50 kVA	TC1	31	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
Noncontinuous	120 V	1	0.50 kVA	TC1	33	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
Noncontinuous	120 V	1	0.50 kVA	L1	49	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
Noncontinuous	120 V	1	0.50 kVA	L1	51	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
OIL TANK	120 V	1	0.50 kVA	L1	6	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
OIL TANK	120 V	1	0.50 kVA	L1	8	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
OIL TANK	120 V	1	0.00 kVA	L1	10	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
OIL TANK	120 V	1	0.00 kVA	L1	12	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
PMS CONTROLLER, BESS YARD 1	120 V	1	0.50 kVA	BL	1	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
PUMP	480 V	3	54.00 kVA	MSB	7	1-1/2"C, 3#1, #1N, #8G	65 A	81 A	100 A
PUMP	480 V	3	54.00 kVA	MSB	8	1-1/2"C, 3#1, #1N, #8G	65 A	81 A	100 A
PUOMP HOUSE CONTROL/CP	120 V	1	0.50 kVA	PUMP HOUSE 2	1	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
PUOMP HOUSE CONTROL/CP	120 V	1	0.50 kVA	PUMP HOUSE 2	3	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
ROLL UP DOOR	208 V	3	10.00 kVA	L1	20,22,24	3/4"C, 3#8, #8N, #10G	12 A	14 A	20 A
SF-1	480 V	3	22.40 kVA	MSB	9	1-1/4"C, 3#4, #4N, #10G	27 A	34 A	60 A
SPD	480 V	3	0.00 kVA	MSB	1	1/2"C, 3#10, #10N, #10G	0 A	0 A	30 A
SPD, BESS YARD 1	480 V	3	0.00 kVA	DPB	3	1/2"C, 3#10, #10N, #10G	0 A	0 A	30 A
UREA DOSING	120 V	1	0.50 kVA	L2	8	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
UREA DOSING	120 V	1	0.50 kVA	L2	41	1/2"C, 1#12, #12N, #12G	0 A	0 A	0 A
WH-1	480 V	3	9.00 kVA	H1	15,17,19	1/2"C, 3#12, #12N, #12G	11 A	14 A	20 A

* WHERE INDICATED AS '0A' PROVIDE DISCONNECT PER PLANS ONLY. PROVIDE DISCONNECT FRAME TO ACCOMMODATE THE FUSE SIZE SHOWN WHERE APPLICABLE.

6/5/2026 1:25:53 PM
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Sheet Title
ELECTRICAL SCHEDULES

Sheet No.
E-602

LIGHTING FIXTURE SCHEDULE

Type Image	CALLOUT	LAMP	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	WATTS	VOLTAGE	COLOR TEMP	LUMENS	CRI	NOTES
	F1	LED	LED 2X2 TROFFER.	RECESSED	MARK LIGHTING	WHSPR 2X2 80CRI 35K 2000LM MIN10 MVOLT SWC ZT OR EQUAL	16 W	277 V	3500K	2013	80	
	F1E	LED	LED 2X2 TROFFER. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	RECESSED	MARK LIGHTING	WHSPR 2X2 80CRI 35K 2000LM MIN10 MVOLT SWC ZT OR EQUAL	16 W	277 V	3500K	2013	80	
	P1A	LED	GENERAL PURPOSE LED STRIP LIGHT - MEDIUM OUTPUT. CHAIN/CABLE MOUNTED. MOUNTING HEIGHT +12'-0" AFF UNO.	PENDANT	LITHONIA LIGHTING	BLWP4 30L ADP MVOLT GZ10 LP835 OR EQUAL	25 W	277 V	3500K	3065	80	
	P1AE	LED	GENERAL PURPOSE LED STRIP LIGHT - MEDIUM OUTPUT. CHAIN/CABLE MOUNTED. MOUNTING HEIGHT +12'-0" AFF UNO. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	PENDANT	LITHONIA LIGHTING	BLWP4 30L ADP MVOLT GZ10 LP835 OR EQUAL	25 W	277 V	3500K	3065	80	
	P1B	LED	GENERAL PURPOSE LED STRIP LIGHT - MEDIUM OUTPUT. CHAIN/CABLE MOUNTED. MOUNTING HEIGHT +12'-0" AFF UNO.	PENDANT	LITHONIA LIGHTING	BLWP4 30L ADP MVOLT GZ10 LP835 OR EQUAL	25 W	277 V	3500K	3065	80	
	P2	LED	PENDANT MOUNTED HIGH BAY WITH INTEGRATED HIGH MOUNT OCCUPANCY SENSOR. MOUNTING HEIGHT +13'-0" AFF UNO.	PENDANT	LITHONIA LIGHTING	CPHB 12000LM SEF GCL MD MVOLT GZ10 35K 80CRI SSE PIRHKO HL DWH OR EQUAL	87 W	277 V	3500K	12273	80	PROVIDE & INSTALL SPLAY WIRES TO COMPLY WITH SIESMIC REQUIREMENTS. SEE DETAIL #1 ON SHEET E-703.
	P2E	LED	PENDANT MOUNTED HIGH BAY WITH INTEGRATED HIGH MOUNT OCCUPANCY SENSOR. MOUNTING HEIGHT +13'-0" AFF UNO. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	PENDANT	LITHONIA LIGHTING	CPHB 12000LM SEF GCL MD MVOLT GZ10 35K 80CRI SSE PIRHKO HL DWH OR EQUAL	87 W	277 V	3500K	12273	80	PROVIDE & INSTALL SPLAY WIRES TO COMPLY WITH SIESMIC REQUIREMENTS. SEE DETAIL #1 ON SHEET E-703,
	R1A	LED	4" RECESSED WET LOCATION DOWNLIGHT.	RECESSED	GOTHAM	EVO4 35/10 AR LD MD MVOLT GZ10 OR EQUAL	9 W	277 V	3500K	1001	85	
	R1AE	LED	4" RECESSED WET LOCATION DOWNLIGHT. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	RECESSED	GOTHAM	EVO4 35/10 AR LD MD MVOLT GZ10 OR EQUAL	9 W	277 V	3500K	1001	85	
	R1B	LED	4" RECESSED WET LOCATION DOWNLIGHT.	RECESSED	GOTHAM	EVO4 35/20 AR LD MD MVOLT GZ10 OR EQUAL	20 W	277 V	3500K	1994	85	
	R2	LED	4" RECESSED SHOWER DOWNLIGHT.	RECESSED	GOTHAM	EVO4SH 35/10 DFR SOL MVOLT EZ1 OR EQUAL	9 W	277 V	3500K	843	85	
	S1	LED	SURFACE MOUNTED STRIP FIXTURE.	SURFACE	LITHONIA LIGHTING	BLWP4 40L ADP MVOLT GZ10 LP835 OR EQUAL	35 W	277 V	3500K	4391	85	
	W1	LED	OUTDOOR LED WALL PACK. MOUNTED AT +9'-0" AFF UNO.	WALL	LITHONIA LIGHTING	ARC1 LED P2 30K MVOLT DDBXD OR EQUAL	17 W	277 V	3000K	2035	80	
	W1E	LED	OUTDOOR LED WALL PACK. MOUNTED AT +9'-0" AFF UNO. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	WALL	LITHONIA LIGHTING	ARC1 LED P2 30K MVOLT DDBXD OR EQUAL	17 W	277 V	3000K	2035	80	
	W2E	LED	2' WALL MOUNTED FIXTURE WITH INTEGRATED OCCUPANCY SENSOR. LOCATED IN STAIRWELLS AND CORRIDORS. MOUNTED AT +8'-6" AFF OR ABOVE STAIR TREAD. CIRCUITED VIA EMERGENCY LIGHTING INVERTER. PROVIDE WITH UL-924 RELAY.	WALL	LITHONIA LIGHTING	STL2 40L EZ10 LP835 LSXRHL OR EQUAL	39 W	277 V	3500K	3616	80	
	W3	LED	4' WALL MOUNTED OUTDOOR RATED STRIP FIXTURE WITH SURFACE MOUNT CONDUIT KNOCKOUTS, LOCATED ON UPPER ROOF. MOUNTED SUCH THAT THE TOP OF FIXTURE IS FLUSH WITH THE TOP OF THE WALL.	WALL	LITHONIA LIGHTING	CSVT L48 4000LM 35K 80CRI OR EQUAL	34 W	277 V	3500K	4065	80	
	X1	LED	CEILING MOUNTED EDGE LIT EXIT SIGN WITH GREEN LETTERS. FIELD INSTALLABLE CHEVRONS.	CEILING	LITHONIA LIGHTING	EDG 1 G OR EQUAL	5 W	277 V	-	-	-	SEE LIGHTING PLANS FOR CHEVRON DIRECTIONS.
	X2	LED	WALL MOUNTED EDGE LIT EXIT SIGN WITH GREEN LETTERS. FIELD INSTALLABLE CHEVRONS. MOUNTED AT +8'-0" AFF UNO.	WALL	LITHONIA LIGHTING	EDG 1 G WM OR EQUAL	5 W	277 V	-	-	-	SEE LIGHTING PLANS FOR CHEVRON DIRECTIONS.

NOTES:
-LISTED MOUNTING HEIGHTS ARE MEASURED FROM THE BOTTOM OF THE FIXTURE.

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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL SCHEDULES

Sheet No.
E-604

6/5/2026 1:23:53 PM
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Branch Panel: H1

Location: LV ROOM 108
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480Y/277V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No

A.I.C. Rating: 42,000
Mains Type: MLO
Bus Rating: 400
MCB Rating: MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	INV1	20 A	1	1.65 kVA	17.73 kVA					3	90 A	CU	2
3	DRY COOLER	150 A	3			26.60 kVA	17.73 kVA			--	--	--	4
5	--	--	--					26.60 kVA	17.73 kVA	--	--	--	6
7	--	--	--	26.60 kVA	--					1	--	BUSSED SPACE	8
9	DRY COOLER	150 A	3			26.60 kVA	--			1	--	BUSSED SPACE	10
11	--	--	--					26.60 kVA	--	1	--	BUSSED SPACE	12
13	--	--	--	26.60 kVA	--					1	--	BUSSED SPACE	14
15	WH-1	20 A	3			3.00 kVA	--			1	--	BUSSED SPACE	16
17	--	--	--					3.00 kVA	--	1	--	BUSSED SPACE	18
19	--	--	--	3.00 kVA	--					1	--	BUSSED SPACE	20
21	Lighting, LIGHTING	20 A	1			2.16 kVA	--			1	--	BUSSED SPACE	22
23	LTWP	20 A	3					2.10 kVA	--	1	--	BUSSED SPACE	24
25	--	--	--	2.10 kVA	--					1	--	BUSSED SPACE	26
27	--	--	--			2.10 kVA	--			1	--	BUSSED SPACE	28
29	LTWP	20 A	3					2.10 kVA	--	1	--	BUSSED SPACE	30
31	--	--	--	2.10 kVA	--					1	--	BUSSED SPACE	32
33	--	--	--			2.10 kVA	--			1	--	BUSSED SPACE	34
35									--	1	--	BUSSED SPACE	36
37	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	38
39	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	40
41	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	42
			Total Load:	79.78 kVA		80.29 kVA		78.13 kVA					
			Total Amps:	289 A		291 A		282 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	234.40 kVA	108.51%	254.35 kVA		
Lighting	3.81 kVA	125.00%	4.76 kVA	**Total Conn. Load:**	238.21 kVA
				Total Est. Demand:	259.11 kVA
				Total Balanced Conn.:	287 A
				Total Est. Demand:	312 A

Branch Panel: L1

Location: LV ROOM 108
Supply From: T1
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 250
MCB Rating: MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ULC1	100 A	3	5.81 kVA	1.60 kVA					2	30 A	AD	2
3	--	--	--			5.81 kVA	1.60 kVA			--	--	--	4
5	--	--	--					5.31 kVA	0.50 kVA	1	20 A	OIL TANK	6
7	DCU	25 A	2	1.40 kVA	0.50 kVA					1	20 A	OIL TANK	8
9	--	--	--			1.40 kVA	0.00 kVA			1	20 A	OIL TANK	10
11	DCU	25 A	2					1.40 kVA	0.00 kVA	1	20 A	OIL TANK	12
13	--	--	--	1.40 kVA	0.50 kVA					1	20 A	EXHAUST FAN	14
15	DCU	25 A	2			1.40 kVA	0.50 kVA			1	20 A	EXHAUST FAN	16
17	--	--	--					1.40 kVA	0.50 kVA	1	20 A	EXHAUST FAN	18
19	CU	30 A	2	1.40 kVA	3.33 kVA					3	35 A	ROLL UP DOOR	20
21	--	--	--			1.40 kVA	3.33 kVA			--	--	--	22
23	DCU	25 A	2					1.40 kVA	3.33 kVA	--	--	--	24
25	--	--	--	1.40 kVA	0.36 kVA					1	20 A	RECEPTACLE	26
27	DCU	25 A	2			1.40 kVA	0.54 kVA			1	20 A	RECEPTACLE	28
29	--	--	--					1.40 kVA	0.54 kVA	1	20 A	RECEPTACLE	30
31	SPARE	20 A	3	0.00 kVA	0.36 kVA					1	20 A	RECEPTACLE	32
33	--	--	--			0.00 kVA	0.72 kVA			1	20 A	RECEPTACLE	34
35	--	--	--					0.00 kVA	0.36 kVA	1	20 A	RECEPTACLE	36
37	EXHAUST FAN	20 A	1	0.50 kVA	0.54 kVA					1	20 A	RECEPTACLE	38
39	EXHAUST FAN	20 A	1			0.50 kVA	0.72 kVA			1	20 A	RECEPTACLE	40
41	CIRC PUMP	20 A	1					0.50 kVA	0.50 kVA	1	20 A	DOSING/CNTRL.	42
43	DOSING/CNTRL.	20 A	1	0.50 kVA	0.00 kVA					1	20 A	SPARE	44
45	EYE WASH	20 A	1			0.50 kVA	0.00 kVA			1	20 A	SPARE	46
47	Noncontinuous	20 A	1					0.50 kVA	0.00 kVA	1	20 A	SPARE	48
49	Noncontinuous	20 A	1	0.50 kVA	0.00 kVA					1	20 A	SPARE	50
51	Noncontinuous	20 A	1			0.50 kVA	0.00 kVA			1	20 A	SPARE	52
53	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	54
55	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	56
57	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	58
59	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	60
61	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	62
63	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	64
65	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	66
67	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	68
69	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	70
71	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	72
73	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	74
75	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	76
77	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	78
79	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	80
81	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	82
83	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	84
			Total Load:	20.10 kVA		20.32 kVA		17.64 kVA					
			Total Amps:	171 A		173 A		147 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	34.00 kVA	107.35%	36.50 kVA		
Receptacle	5.76 kVA	100.00%	5.76 kVA	**Total Conn. Load:**	58.07 kVA
Noncontinuous	18.31 kVA	100.00%	18.31 kVA	**Total Est. Demand:**	60.57 kVA
				Total Balanced Conn.:	161 A
				Total Est. Demand:	168 A

Switchboard: MSB

Location: LV ROOM 108
Supply From: XSP
Mounting: Floor
Enclosure: Type 1

Volts: 480Y/277V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 3000 A
MCB Rating: 3000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	SPD	3	30 A	30 A	0.00 kVA	
2	H1	3	400 A	400 A	238.21 kVA	
3	T1	3	150 A	150 A	58.07 kVA	
4	T2	3	150 A	150 A	68.77 kVA	
5	DOAS	3	350 A	350 A	168.10 kVA	
6	EF-3	3	60 A	60 A	22.40 kVA	
7	PUMP	3	100 A	100 A	54.00 kVA	
8	PUMP	3	100 A	100 A	54.00 kVA	
9	SF-1	3	60 A	60 A	22.40 kVA	
10	AC-1	3	200 A	200 A	105.50 kVA	
11	EF (DF)	3	40 A	40 A	17.50 kVA	
12	EF (DF)	3	40 A	40 A	17.50 kVA	
13	BUSSED SPACE (400A/3P)	3	--	--	--	
14	BUSSED SPACE (400A/3P)	3	--	--	--	
15	BUSSED SPACE (400A/3P)	3	--	--	--	
16	BUSSED SPACE (400A/3P)	3	--	--	--	
17	BUSSED SPACE (400A/3P)	3	--	--	--	
18	BUSSED SPACE (400A/3P)	3	--	--	--	
19	BUSSED SPACE (400A/3P)	3	--	--	--	
20	BUSSED SPACE (400A/3P)	3	--	--	--	
				Total Conn. Load:	826.45 kVA	
				Total Amps:	994 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	738.20 kVA	105.69%	780.23 kVA		
Receptacle	11.52 kVA	93.40%	10.76 kVA	**Total Conn. Load:**	826.45 kVA
Lighting	3.81 kVA	125.00%	4.76 kVA	**Total Est. Demand:**	868.66 kVA
Noncontinuous	72.92 kVA	100.00%	72.92 kVA	**Total Balanced 3-Phase Conn.:**	994 A
				Total Est. Demand:	1045 A

Notes:

Branch Panel: LC1

Location: COMM ROOM 104
Supply From: ULC1
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 100
MCB Rating: MLO

Notes:
PROVIDE MAIN BRAKER WITH SHUNT TRIP CAPABILTIES AND INTERFACE WITH EPO SWITCH.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLE	20 A	1	0.18 kVA	0.00 kVA					1	20 A	SPARE	2
3	RECEPTACLE	20 A	1			0.18 kVA	0.00 kVA			1	20 A	SPARE	4
5	RECEPTACLE	20 A	1					0.18 kVA	0.00 kVA	1	20 A	SPARE	6
7	TV	20 A	1	0.40 kVA	0.00 kVA					1	20 A	SPARE	8
9	TV	20 A	1			0.40 kVA	0.00 kVA			1	20 A	SPARE	10
11	TV	20 A	1					0.40 kVA	0.00 kVA	1	20 A	SPARE	12
13	RECEPTACLE	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	14
15	RECEPTACLE	20 A	1			0.36 kVA	0.00 kVA			1	20 A	SPARE	16
17	RECEPTACLE	20 A	1					0.36 kVA	0.00 kVA	1	20 A	SPARE	18
19	L6-30R	30 A	2	2.19 kVA	0.00 kVA					1	20 A	SPARE	20
21	--	--	--			2.19 kVA	0.00 kVA			1	20 A	SPARE	22
23	L6-30R	30 A	2					2.19 kVA	0.00 kVA	1	20 A	SPARE	24
25	--	--	--	2.19 kVA	0.00 kVA					1	20 A	SPARE	26
27	L6-30R	30 A	2			2.19 kVA	0.00 kVA			1	20 A	SPARE	28
29	--	--	--					2.19 kVA	0.00 kVA	1	20 A	SPARE	30
31	CONTROL POWER	20 A	1	0.50 kVA	0.00 kVA					1	20 A	SPARE	32
33	EYE WASH	20 A	1			0.50 kVA	0.00 kVA			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	42
			Total Load:	5.81 kVA		5.81 kVA		5.31 kVA					
			Total Amps:	49 A		49 A		44 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1.62 kVA	100.00%	1.62 kVA		
Noncontinuous	15.31 kVA	100.00%	15.31 kVA	**Total Conn. Load:**	16.93 kVA
				Total Est. Demand:	16.93 kVA
				Total Balanced Conn.:	47 A
				Total Est. Demand:	47 A

Branch Panel: LC2

Location: COMM ROOM 104
Supply From: ULC2
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 100
MCB Rating: MLO

Notes:
PROVIDE MAIN BRAKER WITH SHUNT TRIP CAPABILTIES AND INTERFACE WITH EPO SWITCH.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	2
3	RECEPTACLE	20 A	1			0.18 kVA	0.00 kVA			1	20 A	SPARE	4
5	RECEPTACLE	20 A	1					0.18 kVA	0.00 kVA	1	20 A	SPARE	6
7	RECEPTACLE	20 A	1	0.18 kVA	0.00 kVA					1	20 A	SPARE	8
9	TV	20 A	1			0.40 kVA	0.00 kVA			1	20 A	SPARE	10
11	RECEPTACLE	20 A	1					0.18 kVA	0.00 kVA	1	20 A	SPARE	12
13	RECEPTACLE	20 A	1	0.18 kVA	0.00 kVA					1	20 A	SPARE	14
15	RECEPTACLE	20 A	1			0.36 kVA	0.00 kVA			1	20 A	SPARE	16
17	RECEPTACLE	20 A	1					0.36 kVA	0.00 kVA	1	20 A	SPARE	18
19	RECEPTACLE	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	20
21	L6-30R	30 A	2			2.19 kVA	0.00 kVA			1	20 A	SPARE	22
23	--	--	--					2.19 kVA	0.00 kVA	1	20 A	SPARE	24
25	L6-30R	30 A	2	2.19 kVA	0.00 kVA					1	20 A	SPARE	26
27	--	--	--			2.19 kVA	0.00 kVA			1	20 A	SPARE	28
29	L6-30R	30 A	2					2.19 kVA	0.00 kVA	1	20 A	SPARE	30
31	--	--	--	2.19 kVA	0.00 kVA					1	20 A	SPARE	32
33	CONTROL POWER	20 A	1			0.50 kVA	0.00 kVA			1	20 A	SPARE	34
35	EYE WASH	20 A	1					0.50 kVA	0.00 kVA	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	42
			Total Load:	5.45 kVA		5.81 kVA		5.59 kVA					
			Total Amps:	45 A		49 A		47 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2.34 kVA	100.00%	2.34 kVA		
Noncontinuous	14.51 kVA	100.00%	14.51 kVA	**Total Conn. Load:**	16.85 kVA
				Total Est. Demand:	16.85 kVA
				Total Balanced Conn.:	47 A
				Total Est. Demand:	47 A

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL PANEL SCHEDULES

Sheet No.
E-611

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Branch Panel: L2

Location: LV ROOM 108
Supply From: T2
Mounting: Surface
Enclosure: Type 1
Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No
A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 250
MCB Rating: MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ULC2	100 A	3	5.45 kVA	0.93 kVA					3	20 A	GEN CCV	2
3	--	--	--			5.81 kVA	0.93 kVA			--	--	--	4
5	--	--	--					5.59 kVA	0.93 kVA	--	--	--	6
7	BLOCK HEATER	40 A	2	2.50 kVA	0.50 kVA					1	20 A	UREA DOSING	8
9	--	--	--			2.50 kVA	0.50 kVA			1	20 A	BATTERY CHARGER	10
11	GEN SPACE HEATER	40 A	2					2.50 kVA	0.50 kVA	1	20 A	BATTERY CHARGER	12
13	--	--	--	2.50 kVA	0.00 kVA					1	20 A	SPARE	14
15	GEN CONTROL	20 A	1			0.50 kVA	0.00 kVA			1	20 A	SPARE	16
17	JACKET HEATER	40 A	2					2.50 kVA	0.00 kVA	1	20 A	SPARE	18
19	--	--	--	2.50 kVA	0.36 kVA					1	20 A	RECEPTACLE	20
21	GEN CCV	20 A	3			0.93 kVA	0.36 kVA			1	20 A	RECEPTACLE	22
23	--	--	--					0.93 kVA	0.36 kVA	1	20 A	RECEPTACLE	24
25	--	--	--	0.93 kVA	0.50 kVA					1	20 A	EYE WASH	26
27	BLOCK HEATER	40 A	2			2.50 kVA	0.54 kVA			1	20 A	RECEPTACLE	28
29	--	--	--					2.50 kVA	0.54 kVA	1	20 A	RECEPTACLE	30
31	GEN SPACE HEATER	40 A	2	2.50 kVA	0.54 kVA					1	20 A	RECEPTACLE	32
33	--	--	--			2.50 kVA	0.72 kVA			1	20 A	RECEPTACLE	34
35	GEN CONTROL	20 A	1					0.50 kVA	0.00 kVA	1	20 A	EXHAUST FAN	36
37	JACKET HEATER	40 A	2	2.50 kVA	1.40 kVA					2	25 A	DCU	38
39	--	--	--			2.50 kVA	1.40 kVA			--	--	--	40
41	UREA DOSING	20 A	1					0.50 kVA	1.40 kVA	2	25 A	DCU	42
43	DOSING/CNTRL.	20 A	1	0.50 kVA	1.40 kVA					--	--	--	44
45	DOSING/CNTRL.	20 A	1			0.50 kVA	1.40 kVA			2	25 A	DCU	46
47	SPARE	20 A	1					0.00 kVA	1.40 kVA	--	--	--	48
49	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	50
51	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	52
53	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	54
55	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	56
57	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	58
59	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	60
61	SPARE	20 A	1	0.00 kVA	0.00 kVA					1	20 A	SPARE	62
63	SPARE	20 A	1			0.00 kVA	0.00 kVA			1	20 A	SPARE	64
65	SPARE	20 A	1					0.00 kVA	0.00 kVA	1	20 A	SPARE	66
67	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	68
69	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	70
71	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	72
73	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	74
75	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	76
77	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	78
79	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	80
81	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	82
83	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	84
			Total Load:	25.02 kVA		23.60 kVA		20.16 kVA					
			Total Amps:	213 A		201 A		168 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	8.40 kVA	108.33%	9.10 kVA		
Receptacle	5.76 kVA	100.00%	5.76 kVA	**Total Conn. Load:**	68.77 kVA
Noncontinuous	54.61 kVA	100.00%	54.61 kVA	**Total Est. Demand:**	69.47 kVA
				Total Balanced Conn.:	191 A
				Total Est. Demand:	193 A

Branch Panel: INV1

Location: LV ROOM 108
Supply From: H1
Mounting:
Enclosure:
Volts: 277V 1P 2W
Phases: 1
Wires: 2
Lug Type: Standard
200% Neutral: No
A.I.C. Rating: 14,000
Mains Type: MCB
Bus Rating: 20
MCB Rating: 20

Notes:

CKT	Circuit Description	Trip	Poles	A		Poles	Trip	Circuit Description	CKT
1	Lighting, LIGHTING	20 A	1	1.65 kVA	0.00 kVA	1	20 A	SPARE	2
3	SPARE	20 A	1	0.00 kVA	0.00 kVA	1	20 A	SPARE	4
			Total Load:	1.65 kVA					
			Total Amps:	6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1.65 kVA	125.00%	2.06 kVA		
				Total Conn. Load:	1.65 kVA
				Total Est. Demand:	2.06 kVA
				Total Balanced Conn.:	6 A
				Total Est. Demand:	7 A

Switchboard: DPB

Location: BESS YARD 1
Supply From: XBS
Mounting: Floor
Enclosure: Type 1
Volts: 480Y/277V 3P 4W
Phases: 3
Wires: 4
A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 4000 A
MCB Rating: 4000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	BESS	3	4000 A	4000 A	2500.00 kVA	
2	XBL	3	60 A	60 A	0.68 kVA	
3	SPD, BESS YARD 1	3	30 A	30 A	0.00 kVA	
4	BUSSED SPACE	1	--	--	--	
5	BUSSED SPACE	1	--	--	--	
6	BUSSED SPACE	1	--	--	--	
7	BUSSED SPACE	1	--	--	--	
8	BUSSED SPACE	1	--	--	--	
9	BUSSED SPACE	1	--	--	--	
10	BUSSED SPACE	1	--	--	--	
				Total Conn. Load:	2500.68 kVA	
				Total Amps:	3008 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	0.18 kVA	100.00%	0.18 kVA		
Switchboard	2500.00 kVA	100.00%	2500.00 kVA	**Total Conn. Load:**	2500.68 kVA
Noncontinuous	0.50 kVA	100.00%	0.50 kVA	**Total Est. Demand:**	2500.68 kVA
				Total Balanced 3-Phase Conn.:	3008 A
				Total Est. Demand:	3008 A

Notes:

Branch Panel: BL

Location: BESS YARD 1
Supply From: XBL
Mounting: Surface
Enclosure: Type 1
Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No
A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 100
MCB Rating: MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PMS CONTROLLER, BESS YARD 1	20 A	1	0.50 kVA	0.18 kVA					1	20 A	Receptacle, BESS YARD 1	2
3	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	4
5	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	6
7	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	8
9	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	10
11	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	12
13	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	14
15	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	16
17	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	18
19	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	20
21	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	22
23	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	24
25	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	26
27	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	28
29	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	30
31	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	32
33	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	34
35	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	36
37	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	38
39	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	40
41	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	42
			Total Load:	0.68 kVA		0.00 kVA		0.00 kVA					
			Total Amps:	6 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	0.18 kVA	100.00%	0.18 kVA		
Noncontinuous	0.50 kVA	100.00%	0.50 kVA	**Total Conn. Load:**	0.68 kVA
				Total Est. Demand:	0.68 kVA
				Total Balanced Conn.:	2 A
				Total Est. Demand:	2 A

Branch Panel: TC1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4
Lug Type: Standard
200% Neutral: No
A.I.C. Rating:
Mains Type: MLO
Bus Rating: 100
MCB Rating: MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLE	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	2
3	RECEPTACLE	20 A	1			0.36 kVA	0.00 kVA			1	20 A	SPARE	4
5	RECEPTACLE	20 A	1					0.36 kVA	0.00 kVA	1	20 A	SPARE	6
7	RECEPTACLE	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	8
9	RECEPTACLE	20 A	1			0.36 kVA	0.00 kVA			1	20 A	SPARE	10
11	RECEPTACLE	20 A	1					0.36 kVA	0.00 kVA	1	20 A	SPARE	12
13	RECEPTACLE	20 A	1	0.36 kVA	0.00 kVA					1	20 A	SPARE	14
15	L6-30R	30 A	2			2.19 kVA	0.00 kVA			1	20 A	SPARE	16
17	--	--	--					2.19 kVA	0.00 kVA	1	20 A	SPARE	18
19	L6-30R	30 A	2	2.19 kVA	0.00 kVA					1	20 A	SPARE	20
21	--	--	--			2.19 kVA	0.00 kVA			1	20 A	SPARE	22
23	L6-30R	30 A	2					2.19 kVA	0.00 kVA	1	20 A	SPARE	24
25	--	--	--	2.19 kVA	0.00 kVA					1	20 A	SPARE	26
27	DCU	25 A	2			1.40 kVA	0.00 kVA			1	20 A	SPARE	28
29	--	--	--					1.40 kVA	0.00 kVA	1	20 A	SPARE	30
31	Noncontinuous	20 A	1	0.50 kVA	0.18 kVA					1	20 A	RECEPTACLE	32
33	Noncontinuous	20 A	1			0.50 kVA	--			1	--	BUSSED SPACE	34
35	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	36
37	SPARE	20 A	1	0.00 kVA	--					1	--	BUSSED SPACE	38
39	SPARE	20 A	1			0.00 kVA	--			1	--	BUSSED SPACE	40
41	SPARE	20 A	1					0.00 kVA	--	1	--	BUSSED SPACE	42
			Total Load:	6.13 kVA		6.99 kVA		6.49 kVA					
			Total Amps:	51 A		59 A		55 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2.80 kVA	125.00%	3.50 kVA		
Receptacle	2.70 kVA	100.00%	2.70 kVA	**Total Conn. Load:**	19.61 kVA
Noncontinuous	14.11 kVA	100.00%	14.11 kVA	**Total Est. Demand:**	20.31 kVA
				Total Balanced Conn.:	54 A
				Total Est. Demand:	56 A

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

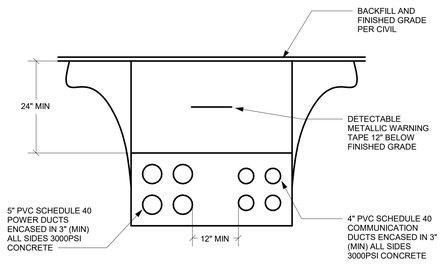
REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

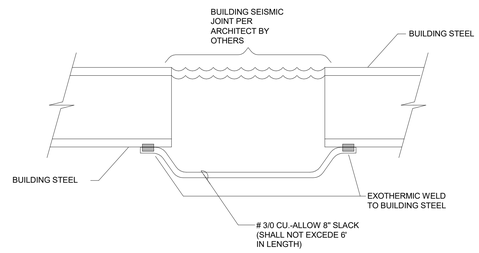
Sheet Title
ELECTRICAL PANEL SCHEDULES

Sheet No.
E-612

6/5/2026 1:25:58 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



3 DUCT BANK DETAIL



2 SIESMIC JOINT DETAIL

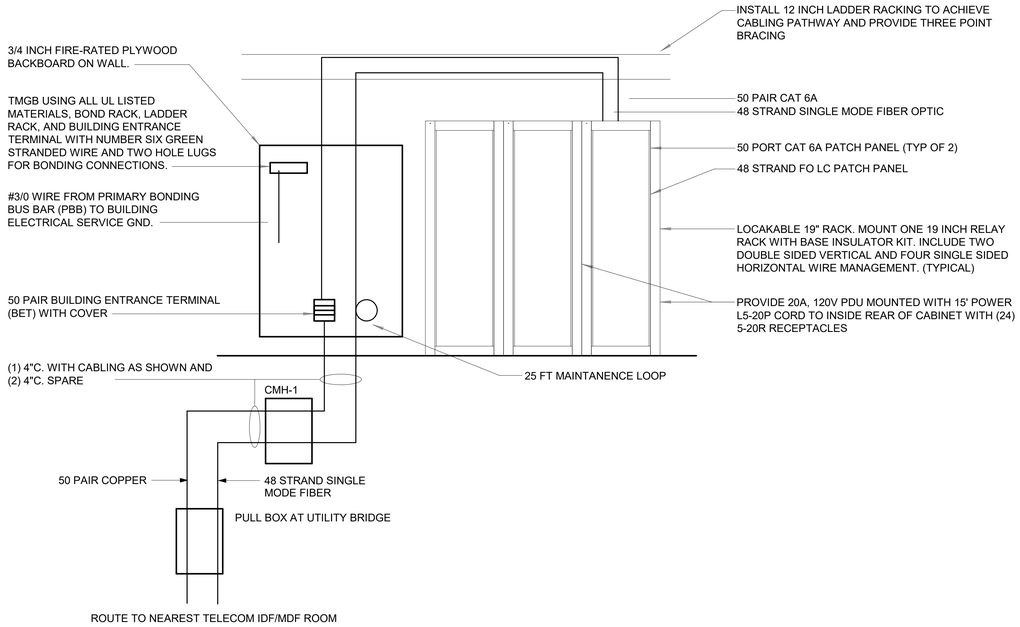
NOTES:

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

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	2"	3"
OUTDOOR	4"	6"

5. USE LABEL ON EACH SWITCHGEAR.

1 ARC FLASH

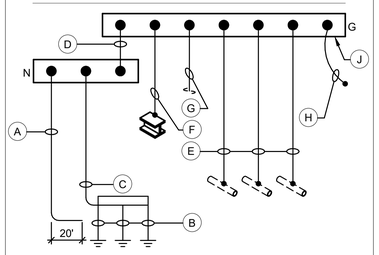


DETAIL GENERAL NOTES

A. UTILIZE TELECOMMUNICATIONS ROOM CABLE TRAY/VELCRO STRAPS AND PROVIDE 10' CABLE SLACK BEFORE ALL TERMINATIONS.
B. UTILIZE A T568A WIRING SCHEME.
C. TEST COPPER CABLE FOR CONTINUITY FROM END TO END, PROVIDE TEST RESULTS FOR ENGINEER AND PECHANGA REVIEW.
D. PROVIDE 25% SPARE PORTS MINIMUM.
E. CABLING SHOWN DOES NOT INCLUDE CONTROLS. SEE CONTROL DRAWINGS FOR ADDITIONAL CABLING REQUIREMENTS.

5 RISER DIAGRAM

BONDING & GROUND DETAIL



ALL SIZES SHOWN ARE FOR Cu. AL. IS NOT PERMITTED.

SERVICE AMPACITY	A	B	D	E	F&G	H
200 AMP	#4	3/4"x10' (QTY PER PLAN)	#2	#2	#2	#2
400 AMP	#4	3/4"x10' (QTY PER PLAN)	#1/0	#1/0	#1/0	#1/0
600 AMP	#4	3/4"x10' (QTY PER PLAN)	#3/0	#3/0	#3/0	#3/0
800 AMP	#4	3/4"x10' (QTY PER PLAN)	#3/0	#3/0	#3/0	#3/0
1000 AMP	#4	3/4"x10' (QTY PER PLAN)	#4/0	#3/0	#3/0	#4/0
1200 AMP	#4	3/4"x10' (QTY PER PLAN)	#4/0	#3/0	#3/0	#4/0
1600 AMP	#4	3/4"x10' (QTY PER PLAN)	#300	#3/0	#3/0	#300
2000 AMP	#4	3/4"x10' (QTY PER PLAN)	#350	#3/0	#3/0	#350
2500 AMP	#4	3/4"x10' (QTY PER PLAN)	#500	#3/0	#3/0	#500
3000 AMP	#4/0	3/4"x10' (QTY PER PLAN)	#500	#3/0	#3/0	#500
3600 AMP	#4	3/4"x10' (QTY PER PLAN)	#700	#3/0	#3/0	#700
4000 AMP	#4	3/4"x10' (QTY PER PLAN)	#800	#3/0	#3/0	#800

(A) CONCRETE ENCASED ELECTRODE (UFER) (GROUNDING ELECTRODE #1). REFER TO CHART FOR SIZE. MINIMUM 20'.

(B) MINIMUM 10 MIL ANNEALED COPPER CLAD STEEL GROUND RODS IN GROUND LOOP. (GROUNDING ELECTRODE #2). REFER TO CHART FOR SIZE.

(C) #4/0 BARE GROUNDING ELECTRODE CONDUCTOR TO GROUND LOOP.

(D) INTEGRATED (FACTORY BONDED) BUS BAR MAIN BONDING JUMPER. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE. (AMPACITY SHALL BE 150% RATED)

(E) METALLIC PIPING BOND WIRE, REFER TO CHART FOR MINIMUM SIZE. BOND TO ALL METALLIC PIPING (WATER, SPRINKLER, GAS, PNEUMATIC LINES, ETC.) WITHIN THE FIRST ACCESSIBLE 5' OF PIPES ENTRY INTO BUILDING.

(F) BUILDING STEEL BOND WIRE (IF REQUIRED PER BUILDING CONSTRUCTION TYPE). REFER TO CHART FOR MINIMUM SIZE.

(G) BOND WIRE FOR USE WITH MULTIPLE SERVICE's (WHEN PRESENT). REFER TO CHART FOR MINIMUM SIZE.

(H) INTEGRATED (FACTORY BONDED) BUS BAR CASE BOND. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE.

(J) INTEGRATED (FACTORY INSTALLED) GROUND BUS BAR. SHALL BE SIZED TO ACCOMMODATE GROUND WIRE LUGS AS INDICATED ON THE ONE-LINE DIAGRAM.

4 BONDING & GROUND DETAIL

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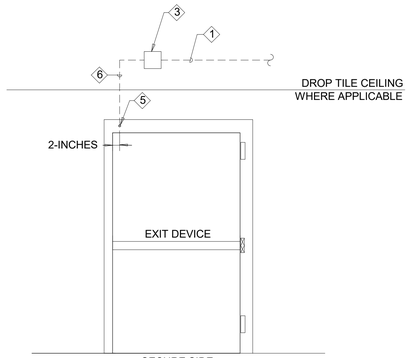
PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

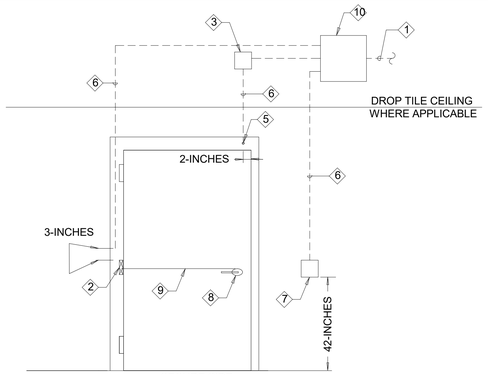
Sheet Title
ELECTRICAL DETAILS

Sheet No.
E-701



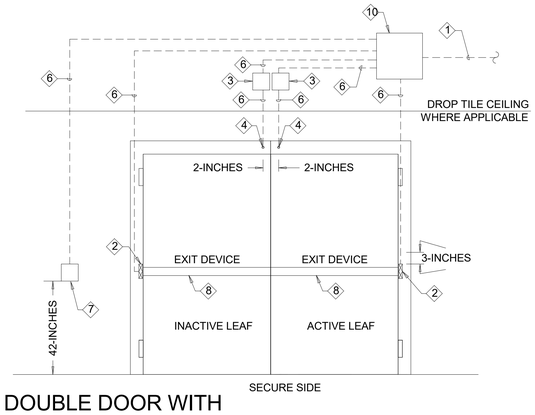
SINGLE PERIMETER DOOR WITH HSS

SCALE: N.T.S.



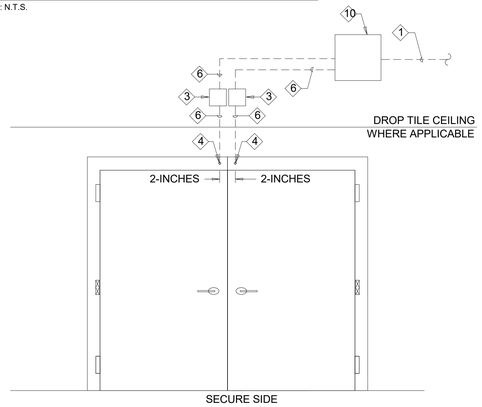
SINGLE DOOR WITH LOCKSET AND HSS

SCALE: N.T.S.



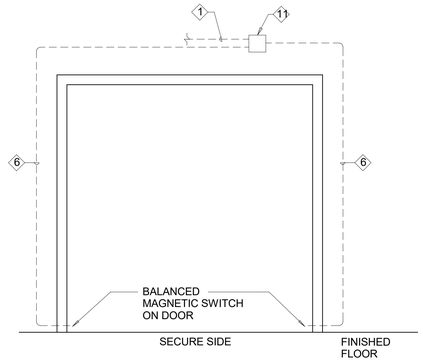
DOUBLE DOOR WITH LOCKSET, EXIT DEVICES AND HSS

SCALE: N.T.S.



DOUBLE PERIMETER DOOR WITH HSS

SCALE: N.T.S.



OVERHEAD DOOR WITH HSS

SCALE: N.T.S.

KEY NOTES

1. 1-INCH EMT CONDUIT TO SECURITY WIREWAY IN TELECOM EQUIPMENT ROOM.
2. ELECTRIC POWER TRANSFER HINGE.
3. 4 11/16-INCH x 4 11/16-INCH x 2 1/2-INCH J-BOX ABOVE CEILING ON SECURE SIDE.
4. DEVICE "A" PROVIDE (2) 3/4-INCH DIAMETER DEVICE HOLE ON SECURE SIDE FACE OF DOOR FRAME. THE HOLES SHALL BE 2-INCHES FROM EDGE OF THE 2 DOOR JUNCTURE. PROVIDE 3/4- INCH CONDUIT.
5. DEVICE "B" PROVIDE 3/4-INCH DIAMETER DEVICE HOLES ON SECURE SIDE FACE OF DOOR FRAME 2-INCHES FROM INNER EDGE OF DOOR FRAME. THIS APPLICATION WILL REQUIRE 3/4-INCH CONDUIT TO J-BOX LOCATED ON SECURE SIDE.
6. 3/4-INCH EMT CONDUIT.
7. 4-INCH X 4-INCH JUNCTION BOX WITH SINGLE GANG PLASTER RING FOR ACS DEVICE FLUSH MOUNT ON NON-SECURE SIDE (BOX AND CONDUIT RECESSED IN WALL) WITH BLANK PLATE IF REQUIRED DEPENDANT UPON DOOR HARDWARE.
8. ELECTRIFIED LOCKSET OR EXIT DEVICE WITH REQUEST TO EXIT CONTACT INTEGRAL TO DOOR.
9. CORE DRILLED DOOR (BY DOOR MANUFACTURER)
10. 12-INCH x 12-INCH x 4-INCH J-BOX ABOVE CEILING ON SECURE SIDE. CONNECT TO ELECTRICAL J-BOX WHEN APPLICABLE. COORDINATE WITH ELECTRICAL DRAWINGS FOR EXACT LOCATIONS.
11. 6-INCH BY 6-INCH BY 4-INCH DEEP BOX WITH BLANK COVER. RECESS WITHIN 2 FEET ABOVE DOOR.

1 SECURITY DOOR DETAILS

12" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
JERRY F. MURPHY
Exp. 03/31/27
ELECTRICAL
STATE OF CALIFORNIA

BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL DETAILS

Sheet No.
E-702

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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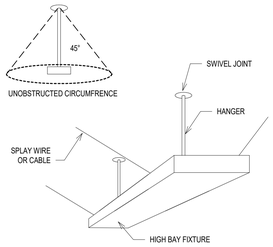

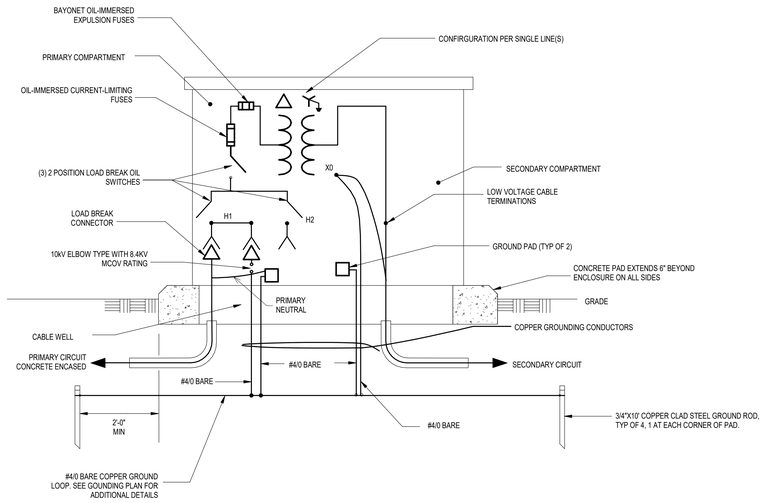

2	**HIGH BAY SEISMIC RESTRAINT**	**1**	**PAD MOUNTED TRANSFORMER DETAIL (LOOP FEED)**

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REGISTERED PROFESSIONAL ENGINEER
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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
ELECTRICAL DETAILS

Sheet No.
E-703

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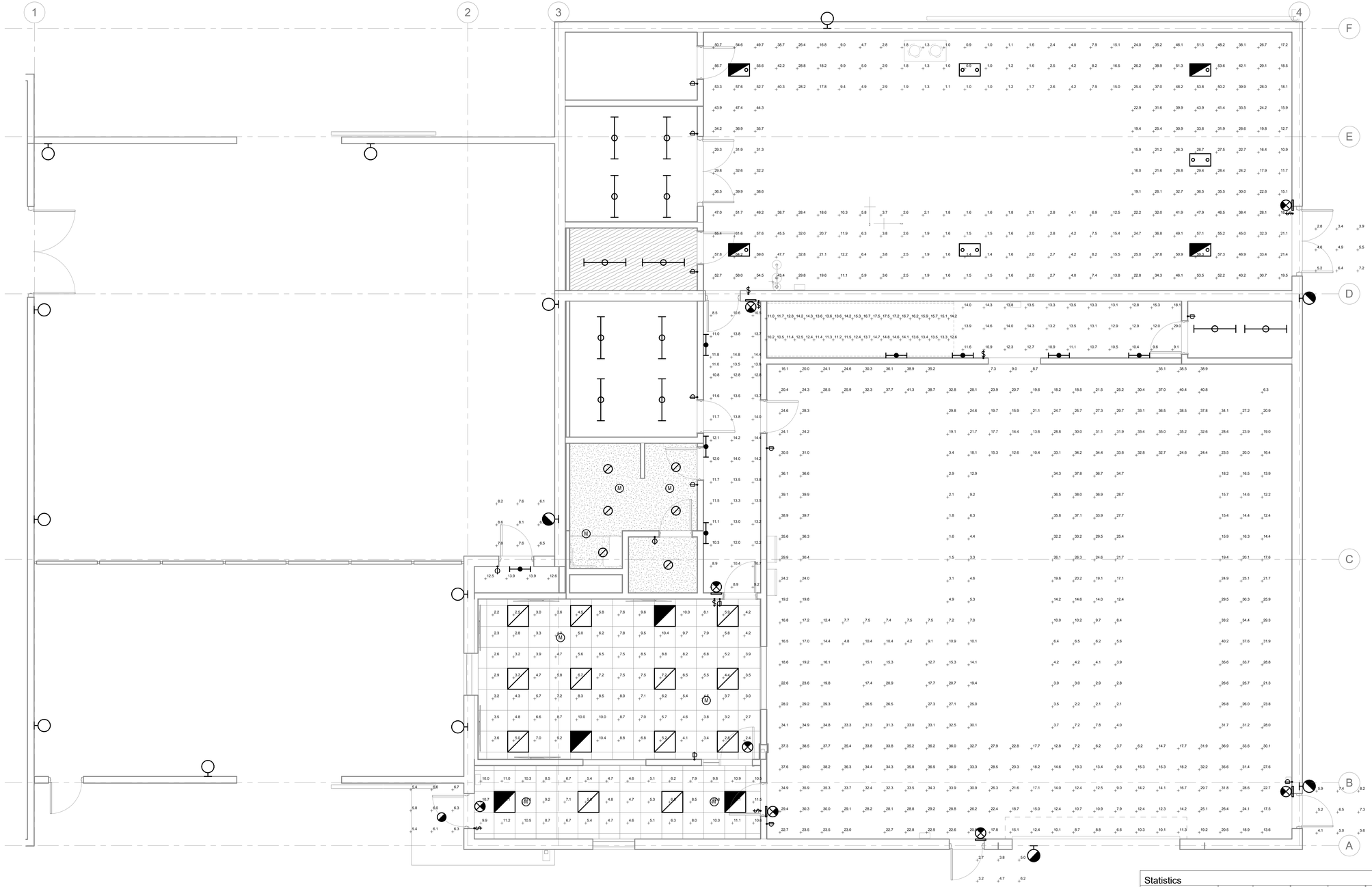

1	LEVEL 01 - EMERGENCY PHOTOMETRICS

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ELECTRICAL ROOM	+	23.6 fc	64.2 fc	0.9 fc	71.3:1	26.2:1
ENTRY VESTIBULE	+	8.2 fc	12.1 fc	4.6 fc	2.6:1	1.8:1
EXIT DOOR	+	6.1 fc	6.7 fc	5.4 fc	1.2:1	1.1:1
EXIT DOOR	+	6.1 fc	8.2 fc	4.1 fc	2.0:1	1.5:1
EXIT DOOR	+	7.5 fc	8.6 fc	6.1 fc	1.4:1	1.2:1
EXIT DOOR	+	4.8 fc	7.2 fc	2.8 fc	2.6:1	1.7:1
EXIT DOOR	+	4.7 fc	7.1 fc	2.7 fc	2.6:1	1.7:1
GENERATOR ROOM	+	22.4 fc	41.3 fc	1.5 fc	27.5:1	14.9:1
HALL 100A	+	12.1 fc	14.4 fc	7.4 fc	1.9:1	1.6:1
HALL 100A	+	11.4 fc	13.8 fc	8.5 fc	1.6:1	1.3:1
HALL 100B	+	13.3 fc	29.0 fc	9.1 fc	3.2:1	1.5:1
STAIRS 100A		13.2 fc	14.8 fc	11.0 fc	1.3:1	1.2:1
STAIRS 100B		13.7 fc	17.5 fc	10.2 fc	1.7:1	1.3:1
VESTIBULE	+	13.2 fc	13.9 fc	12.5 fc	1.1:1	1.1:1
Z-STEP B	+	13.3 fc	14.2 fc	12.5 fc	1.1:1	1.1:1
Z-STEP B	+	12.1 fc	12.8 fc	11.4 fc	1.1:1	1.1:1
Z-STEP B	+	11.1 fc	11.7 fc	10.5 fc	1.1:1	1.1:1
Z-STEP B	+	10.6 fc	11.0 fc	10.2 fc	1.1:1	1.0:1
CONTROL ROOM	+	5.9 fc	10.7 fc	2.2 fc	4.9:1	2.7:1

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BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
EMERGENCY PHOTOMETRICS - LEVEL 1

Sheet No.
E-801

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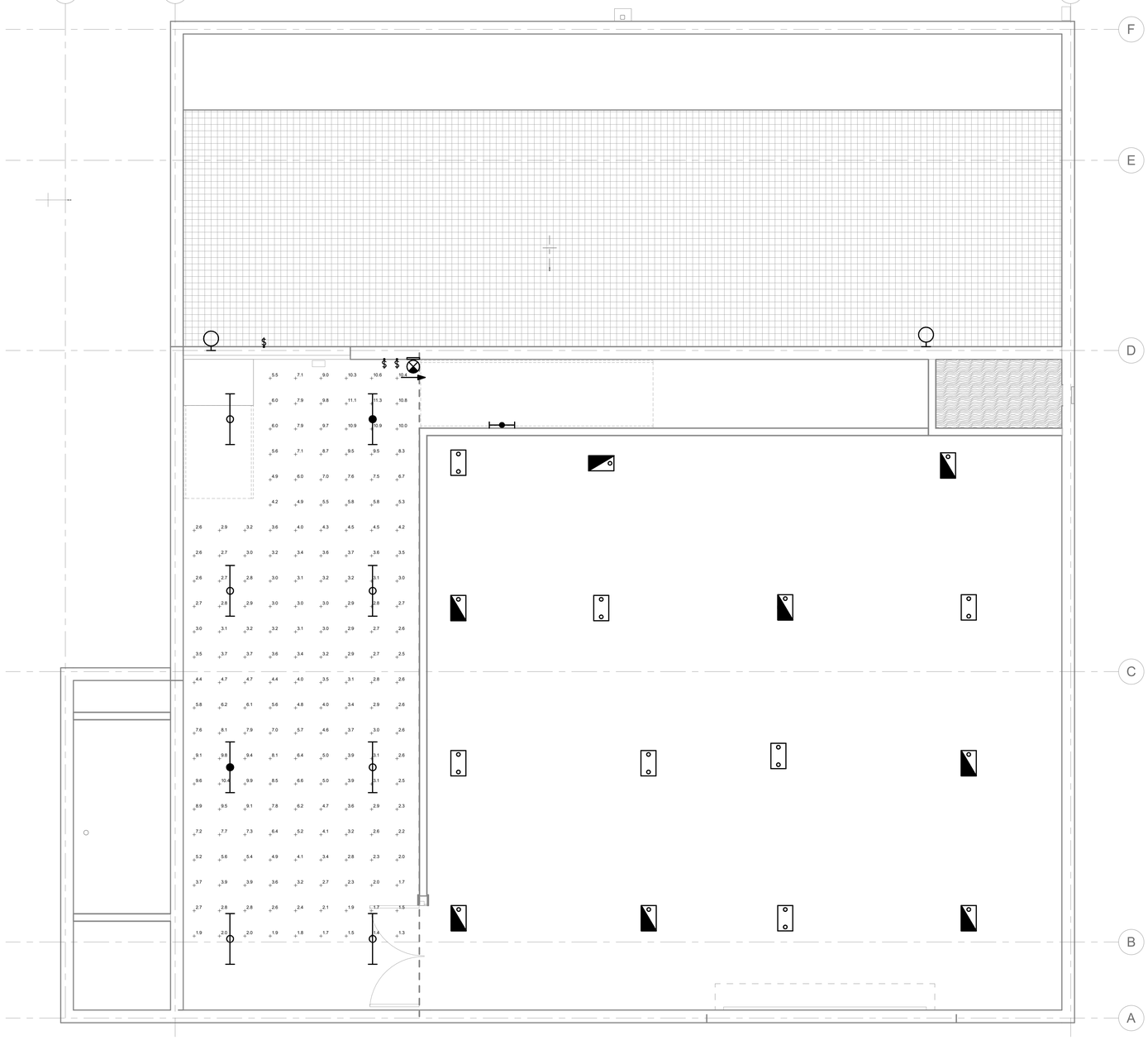

1	MEZZANINE - EMERGENCY PHOTOMETRICS

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
STORAGE	+	4.8 fc	11.3 fc	1.3 fc	8.7:1	3.7:1

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REGISTERED PROFESSIONAL ENGINEER
GARY F. MURPHY
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ELECTRICAL
STATE OF CALIFORNIA

BELEN CONSULTING

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
EMERGENCY PHOTOMETRICS - MEZZANINE

Sheet No.
E-802

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: MORONGO CHP	**Report Page:** **(Page 1 of 9)**
Project Address: 49566 SEMINOLE DRIVE	**Date Prepared:** 1/6/2026

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	04 Total Conditioned Floor Area (ft^2)	1,257
02	Climate Zone	15	05 Total Unconditioned Floor Area (ft^2)	5,223
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Commercial Industrial ● Office ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☒ New Lighting System	Area Category Method	1257	Area Category Method	5223
☐ New Lighting System - Parking Garage				
Total Area of Work (ft^2)	1257		5223	

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 2 of 9)**
	Date Prepared: 1/6/2026

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 /§170.2(e)	Allowed Lighting Power per §140.6(b) /§170.2(e) (Watts)					Adjusted Lighting Power per §140.6(a) /§170.2(e) (Watts)					Compliance Results
	01	02	03		04		05	06		07	08
	Complete Building §140.6(c)1	Area Category §140.6(c)2 /§170.2(e)4	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 /§170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6 /§170.2(e)**
	(See Table I)	(See Table I)	(See Table J)				(See Table F)	(See Table P)			
Conditioned		671.3	0	=	671	≥	670	0	=	670	COMPLIES
Unconditioned		2,919.2	0	=	2,919	≥	2,868	0	=	2868	COMPLIES
Controls Compliance (See Table H for Details)											COMPLIES
One-for-one Luminaire Alterations Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 3 of 9)**
	Date Prepared: 1/6/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Field Inspector Pass	Field Inspector Fail
F1	F1	No	NA	16	Mfr. Spec	16	No	256	☐	☐
P1A	P1A	No	NA	25	Mfr. Spec	4	No	100	☐	☐
P1B	P1B	No	NA	25	Mfr. Spec	4	No	100	☐	☐
R1A	R1A	No	NA	9	Mfr. Spec	6	No	54	☐	☐
R1B	R1B	No	NA	20	Mfr. Spec	1	No	20	☐	☐
S1	S1	No	NA	35	Mfr. Spec	4	No	140	☐	☐
Total Designed Watts: CONDITIONED SPACES								670		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Field Inspector Pass	Field Inspector Fail
P1A	P1A	No	NA	25	Mfr. Spec	9	No	225	☐	☐
P2	P2	No	NA	87	Mfr. Spec	25	No	2,175	☐	☐
W2	W2	No	NA	39	Mfr. Spec	12	No	468	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								2,868		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 4 of 9)**
	Date Prepared: 1/6/2026

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	Pass	Fail
Required >= 4,000W subject to multilevel	See Area/Space Level Controls (Column 8)	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) //§160.5(b)4C	Primary/Skylit Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) /§160.5(b)4D	Interlocked Systems §140.6(a)1/ §170.2(e)2A	Field Inspector Pass	Field Inspector Fail
CORRIDOR	Corridor	Readily Accessible and located in the same space.	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
ELEC ROOM	Electrical, Mechanical, or Telephone Room	Readily Accessible and located in the same space.	Dimmer	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
GENERATOR ROOM	General Commercial Industrial Work Area High Bay	Readily Accessible and located in the same space.	Dimmer	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 5 of 9)**
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

TELECOM	Copy Room	Readily Accessible and located in the same space.	Dimmer	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
OFFICE	Office (>250 square feet)	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
STAIRWELL	Stairwell	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
RESTROOM	Restroom	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
JANITOR	All Other Space Types	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06

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CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 6 of 9)**
	Date Prepared: 1/6/2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area CategoryPAF	Additional Allowance / Adjustment PAF
CORRIDOR - CONDITIONED	Corridor	0.4	202	80.8	No	No
ELEC ROOM - CONDITIONED	Electrical, Mechanical, or Telephone Room	0.4	299	119.6	No	No
TELECOM	Copy Room	0.7	171	119.7	No	No
OFFICE	Office (>250 square feet)	0.6	436	261.6	No	No
RESTROOM	Restroom	0.65	120	78	No	No
JANITOR	All Other Space Types	0.4	29	11.6	No	No
		TOTALS:	1,257	671.3	See Tables J, or P for detail	

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area CategoryPAF	PAF
CORRIDOR - UNCONDITIONED	Corridor	0.4	386	154.4	No	No
ELEC ROOM - UNCONDITIONED	Electrical, Mechanical, or Telephone Room	0.4	1,481	592.4	No	No
GENERATOR ROOM	General Commercial Industrial Work Area High Bay	0.65	3,175	2,063.8	No	No
STAIRWELL	Stairwell	0.6	181	108.6	No	No
		TOTALS:	5,223	2,919.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 7 of 9)**
	Date Prepared: 1/6/2026

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 8 of 9)**
	Date Prepared: 1/6/2026

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	CORRIDOR; OFFICE; STAIRWELL; RESTROOM; JANITOR;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: MORONGO CHP	**Report Page:** **(Page 9 of 9)**
Project Address: 49566 SEMINOLE DRIVE	**Date Prepared:** 1/6/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Cory P. Murphy	Documentation Author Signature:
Company: ELEN Consulting Inc	Signature Date: 2026-01-06
Address: 4573 Kearny Villa RD, STE 200	CEA/AEA/ECC Certification Identification (if applicable): E 19411
City/State/Zip: San Diego CA 92123	Phone: 6195501085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Cory P. Murphy	Responsible Person Signature:
Responsible Person Scope: Cory P. Murphy	
Company: ELEN Consulting Inc	Date Signed: 2026-01-06
Address: 4573 Kearny Villa RD, STE 200	License: E 19411
City/State/Zip: San Diego CA 92123	Phone: 6195501085

THE ARCHITECT. ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF
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REGISTERED PROFESSIONAL ENGINEER
CORY P. MURPHY
No. 19411
Exp. 03/31/27
ELECTRICAL
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ELEN CONSULTING
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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
TITLE 24

Sheet No.
E-901

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 1 of 8)
Project Address: 49566 SEMINOLE DRIVE	Date Prepared:	1/6/2026

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e)6, §180.1(a) and §180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	04 Total Illuminated Hardscape Area (ft²)	8427
02	Climate Zone	15		
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project			
● Commercial Industrial ● Office ● Support Areas				

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 2 of 8)
	Date Prepared:	1/6/2026

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv									Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 / §170.2(e)6 (See Table L)	+	Per Specific Area §140.7(d)2 / §170.2(e)6 (See Table M)	OR	Existing Power Allowance §141.0(b)2L / § 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
542	+	54	+	---	+	---	+	---	OR	---	=	596	≥	553	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 3 of 8)
	Date Prepared:	1/6/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a) / §170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) /§160.5(c)1 [4]	Field Inspector	
										Pass	Fail
R1A	R1A	☐ Linear	9	Mfr. Spec	1	New	☐	9	NA: < 6200 lumens	☐	☐
W1	W1	☐ Linear	17	Mfr. Spec	16	New	☐	272	NA: < 6200 lumens	☐	☐
W3	W3	☐ Linear	34	Mfr. Spec	8	New	☐	272	NA: < 6200 lumens	☐	☐
Total Design Watts:								553			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)/ §160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 4 of 8)
	Date Prepared:	1/6/2026

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1 / §160.5(c)	Auto-Schedule §130.2(c)2 / §160.5(c)	Motion Sensor §130.2(c)3 / §160.5(c)	Field Inspector	
				Pass	Fail
Outdoor	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 5 of 8)
	Date Prepared:	1/6/2026

I. LIGHTING POWER ALLOWANCE (per §140.7 /§170.2(e))

This table includes areas using allowance calculations per §140.7 /§170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
		"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☒ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
UPPER ROOFTOP	3562	0.019	67.7	241	0.2	36.2	104
LOWER ROOFTOP	1424	0.019	27.1	190	0.2	28.5	56
EQUIPMENT YARD	2839	0.019	53.9	220	0.2	33	87
NORTH WALKWAY	90	0.019	1.7	49	0.2	7.4	9
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							542

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 6 of 8)
	Date Prepared:	1/6/2026

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B [1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
MAIN EXIT DOOR	Building Entrance/Exit	1	15	15	R1A	9	1	9	9
Total Design Watts for this Area:								9	
OTHER EXIT	Building Entrance/Exit	3	15	45	W1	17	3	51	45
Total Design Watts for this Area:								51	
Total Allowance (Watts) All Areas:									54

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.
[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 7 of 8)
	Date Prepared:	1/6/2026

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Outdoor;

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MORONGO CHP	Report Page:	(Page 8 of 8)
Project Address: 49566 SEMINOLE DRIVE	Date Prepared:	1/6/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Cory P. Murphy	Documentation Author Signature:
Company: ELEN Consulting Inc	Signature Date: 2026-01-06
Address: 4573 Kearny Villa RD, STE 200	CEA/AEA/ECC Certification Identification (if applicable): E 19411
City/State/Zip: San Diego CA 92123	Phone: 6195501085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Cory P. Murphy	Responsible Person Signature:
Responsible Person Scope: Cory P. Murphy	
Company: ELEN Consulting Inc	Date Signed: 2026-01-06
Address: 4573 Kearny Villa RD, STE 200	License: E 19411
City/State/Zip: San Diego CA 92123	Phone: 6195501085

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
TITLE 24

Sheet No.
E-902

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii

Project Name:	MORONGO CHP	**Report Page:**	**(Page 1 of 6)**
Project Address:	49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

A. GENERAL INFORMATION

01	Project Location (city)	CABAZON	02	Climate Zone	15
			03	Occupancy Types Within Project:	Commercial IndustrialOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSB	New electrical service equipment and meter	3	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	MORONGO CHP	**Report Page:**	**(Page 2 of 6)**
		Date Prepared:	4/27/2026

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05	
Electrical Service Designation/ Description	Rating[1] (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
MSB	3	☒	☐	☒	☐	E-601	☐	☐

[1] FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	MORONGO CHP	**Report Page:**	**(Page 3 of 6)**
		Date Prepared:	4/27/2026

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MSB					
Lighting including exit, egress and exterior	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-601 - E-603	☐	☐
HVAC systems and components	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-601 - E-603	☐	☐
Plug Loads and appliances less than 25kVA	not required	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-601 - E-603	☐	☐

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	MORONGO CHP	**Report Page:**	**(Page 4 of 6)**
		Date Prepared:	4/27/2026

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[2] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
MSB	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	E-601 - E-603	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	MORONGO CHP	**Report Page:**	**(Page 5 of 6)**
		Date Prepared:	4/27/2026

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	MORONGO CHP	**Report Page:**	**(Page 6 of 6)**
Project Address:	49566 SEMINOLE DRIVE	**Date Prepared:**	4/27/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Cory P. Murphy	Documentation Author Signature:
Company: ELEN Consulting Inc	Signature Date: 2026-04-27
Address: 5473 Kearny Villa Road, Suite 200	CEA/ HERS Certification Identification (if applicable): E 19411
City/State/Zip: San Diego CA 92123	Phone: 619-550-1085

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Cory P. Murphy	Responsible Designer Signature:
Company: ELEN Consulting Inc	Date Signed: 2026-04-27
Address: 4573 Kearny Villa RD, STE 200	License: E 19411
City/State/Zip: San Diego CA 92123	Phone: 6195501085

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 329-001

REV NO.	DATE ISSUED	REASON

PHASE 2 - FINAL DESIGN CD80%
2026.03.19

Sheet Title
TITLE 24

Sheet No.
E-903

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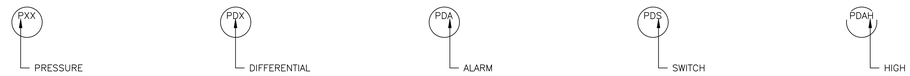
INSTRUMENTATION IDENTIFICATION



FIRST LETTER MEASURED OR INITIATING VARIABLE

A – ANALYSIS
B – BTU
C – USER'S CHOICE
D – USER'S CHOICE
E – VOLTAGE
F – FLOW RATE
G – USER'S CHOICE
H – HAND
I – CURRENT (ELECTRICAL)
J – POWER
K – TIME, TIME SCHEDULE
L – LEVEL
M – USER'S CHOICE
N – USER'S CHOICE
O – OPACITY
P – PRESSURE, VACUUM
Q – QUANTITY
R – RADIATION
S – SPEED, FREQUENCY
T – TEMPERATURE
U – MULTIVARIABLE
V – VIBRATION
W – WEIGHT, FORCE
X – UNCLASSIFIED
Y – EVENT, STATE OR PRESENCE
Z – POSITION, DIMENSION

FIRST LETTER MODIFIER

D – DIFFERENTIAL
F – RATIO
J – SCAN
K – TIME RATE OF CHANGE
M – MOMENTARY
Q – INTEGRATE, TOTALIZE
S – SAFETY
X – X–AXIS
Y – Y–AXIS
Z – Z–AXIS

SUCCEEDING – LETTERS READOUT OR PASSIVE FUNCTION

A – ALARM
B – USER'S CHOICE
E – SENSOR (PRIMARY ELEMENT)
G – GLASS, VIEWING DEVICE
I – INDICATE
L – LIGHT
N – USER'S CHOICE
O – ORIFICE, RESTRICTION
P – POINT (TEST) CONNECTION
R – RECORD
U – MULTIFUNCTION
W – WELL
X – UNCLASSIFIED

SUCCEEDING – LETTERS OUTPUT FUNCTION

B – USER'S CHOICE
C – CONTROL
K – CONTROL STATION
N – USER'S CHOICE
S – SWITCH
T – TRANSMIT
U – MULTIFUNCTION
V – VALVE, DAMPER, LOUVER
X – UNCLASSIFIED
Y – RELAY, COMPUTE, CONVERT
Z – UNCLASSIFIED

SUCCEEDING – LETTERS MODIFIER

B – USER'S CHOICE
H – HIGH, VALVE OPEN
L – LOW, VALVE CLOSED
M – MIDDLE, INTERMEDIATE
N – USER'S CHOICE
U – MULTIFUNCTION
X – UNCLASSIFIED

ABBREVIATIONS

ABBREV.	DESCRIPTION
A/C	ASPHALT CONCRETE
BF	BLIND FLANGE
BH	BRAIDED HOSE
BLDG	BUILDING
℄	CENTER LINE
CL	CLASS
COMP	COMPRESSOR/COMPRESSED
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
CPLG	COUPLING
CU FT	CUBIC FEET
DIA OR ø	DIAMETER
DEG	DEGREE
DEPT	DEPARTMENT
DWG	DRAWING
EA	EACH
ECC	ECCENTRIC
ELEV	ELEVATION
ESO	EMERGENCY SHUTDOWN
ESW	EMERGENCY SHOWER/EYEWASH
ESOPB	EMERGENCY SHUTDOWN PUSH BUTTON
ENCL	ENCLOSURE
EXIST	EXISTING
F	FAHRENHEIT
FNPT OR FPT	FEMALE NATIONAL PIPE THREADED
FV	FIELD VERIFY
FF	FLAT FACE
FH	FLEX HOSE
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FIG	FIGURE
FMU	FITTING MAKE–UP
FLG	FLANGE
FT	FOOT
GAL	GALLON
GPM	GALLONS PER MINUTE
GALV	GALVANIZED
GND	GROUND
H	HIGH
HO	HOSE (RUBBER, NBR, NEO, ETC.)
HR	HOSE REEL
HP	HIGH PRESSURE OR HORSE POWER
ID	INSIDE DIAMETER
INT	INTERMITTENT
L	LONG
LP	LOW PRESSURE
MB	MACHINE BOLT
M/U	MAKE–UP
MO	MASONRY OPENING
MAX	MAXIMUM
MIN	MINIMUM
MNPT OR MPT	MALE NATIONAL PIPE THREAD
NPT	NATIONAL PIPE THREAD
N/A	NOT APPLICABLE
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OXC	OXIDATION CATALYST
P/N	PART NUMBER
ℙ	PLATE
PBE	PLAIN BOTH ENDS
POE	PLAIN ONE END
POC	POINT OF CONNECTION
# OR LB	POUND
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PRESS	PRESSURE
PB	PUSH BUTTON
RF	RAISED FACE
RED	REDUCING OR REDUCER
REF	REFERENCE
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCEMENT
SCH	SCHEDULE
SEC	SECTION
SIM	SIMILAR
SPR	SPRINKLERED
SQ	SQUARE
SQ FT	SQUARE FEET
SCFH	STANDARD CUBIC FEET PER HOUR
STD	STANDARD
TEMP	TEMPERATURE OR TEMPORARY
THK	THICK
THD	THREADED
THRU	THROUGH
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
XFMR	TRANSFORMER
TYP	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WC	WATER COLUMN
W	WIDE
HRU	WASTE HEAT RECOVERY

MISCELLANEOUS SYMBOLS

ITEM	DESCRIPTION
	INSERTION MAG FLOW METER
	THERMAL MASS FLOW METER
	ULTRASONIC FLOW METER
	ORIFICE
	CORIOLIS FLOW METER
	TURBINE FLOW METER
	ANNUBAR
	FLANGE
	UNION
	CAP WELDED
	CAP THREADED OR SOCKET WELDED
	BLIND FLANGE
	HOSE CONNECTION / CAMLOCK CONNECTION
	REDUCER / ECC RED
	AUTO VENT
	RUBBER FLEX CONNECTOR
	FLEX CONNECTOR OR EXPANSION JOINT
	FLEX HOSE (FH–XX)
1/4"	TEST PLUG
	TEMPORARY STRAINER
	Y–TYPE STRAINER
	PIGTAIL
	POS. DISPL. PUMP
	CONDENSATE TRAP
	HEAT EXCHANGER P&F
	CENTRIFUGAL FAN
	FILTER
	DRAIN
	CENTRIFUGAL PUMP
	POINT OF CONNECTION
LC	LOCKED CLOSED
LO	LOCKED OPEN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
CS ◄► SS	SPEC/SCOPE OF SUPPLY BREAK
CU	COPPER
CS	CARBON STEEL
SS	STAINLESS STEEL
IA	INSTRUMENT AIR SUPPLY
PE	POLYETHYLENE
PVC	POLYVINYLCHLORIDE

VALVE SYMBOLS

OPEN	CLOSED	TYPE
		ANGLE
		BALL
	N/A	THREE–WAY BALL
	NC	BUTTERFLY
	N/A	CHECK
		GATE OR UNSPECIFIED
		GAUGE ROOT (W/INTEGRAL VENT)
		GLOBE
		NEEDLE
		PLUG
	N/A	SAFETY/RELIEF
	N/A	STOP–CHECK (NON–RETURN) (ANGLE)
	N/A	STOP–CHECK (NON–RETURN) (Y–PATTERN)
	N/A	THREE–WAY
	N/A	FOUR–WAY
	N/A	CIRCUIT SETTER
	N/A	EARTHQUAKE VALVE
	N/A	CIRCUIT SETTER

CONTROL VALVE OPERATORS

FC = FAIL CLOSED
FO = FAIL OPEN
} TYPICAL FOR ALL CONTROL VALVES

DIAPHRAGM OPERATED

SPRING RETURN

MOTOR OPERATED

ELECTRO/HYDRAULIC MOTOR OPERATED

SOLENOID OPERATED

OPERATOR WITH HANDWHEEL

SELF–CONTAINED PRESSURE REGULATOR

SELF–CONTAINED BACKPRESSURE PRESSURE REGULATOR

PILOT OPERATED PRESSURE REGULATOR

CONTINUATION ARROWS

SYSTEM (CONTINUATION) → TO OTHER P & ID

SYSTEM (CONTINUATION) ← FROM OTHER P & ID

CONTROL → CONTROL SIGNAL

INSTRUMENTATION SYMBOLS

LOCAL FIELD MOUNTED DISCRETE INSTRUMENT

MAIN PANEL MOUNTED INSTRUMENT OR DEVICE

LOCAL PANEL MOUNTED INSTRUMENT OR DEVICE

PLANT SUPERVISORY SYSTEM DISPLAY

PROGRAMMABLE LOGIC CONTROLLER

INSTRUMENT & CONTROL LOGIC

I – INTERLOCK TO LOCAL CONTROL OR COMPUTERS

B – BALANCE OF PLANT LOGIC

I/P – CURRENT TO PNEUMATIC TRANSDUCER

PIPING & INSTRUMENT LINES

BY CUSTOMER

PRIMARY SYSTEM

SECONDARY SYSTEM

INDUSTRIAL COMMS PROTOCOL

ELECTRIC SIGNAL

ANALOG SIGNAL

PNEUMATIC SIGNAL

HYDRAULIC SIGNAL

CAPILLARY

PIPING LINE NUMBER

XX"–XXX–XXX–XXXXX–X"X

- INSULATION
  H = HEAT CONSERVATION
  HT = HEAT TRACE
  C = COLD INSULATION
  P = PERSONNEL PROTECTION
- INSULATION THICKNESS
- DISCRETE LINE NUMBER
- SERVICE/COMMODITY
- PIPE SCHEDULE
- PIPING MATERIAL CODE
- LINE SIZE

PIPING MATERIAL CODE

X X X

- END CONNECTIONS
  0 – RAISED FACE FLANGE
  1 – FLAT FACE FLANGE
  2 – RING TYPE JOINT
  3 – THREADED
  7 – SWAGELOK
  8 – GLUED
- PIPE MATERIAL
  1 – CARBON STEEL
  3 – COPPER
  4 – GALVANIZED CARBON STEEL
  5 – TYPE 304 STAINLESS STEEL
  7 – TYPE 316 STAINLESS STEEL
  8 – PVC
- VALVE PRESSURE CLASS
  A – ANSI CLASS 150
  B – ANSI CLASS 300
  D – ANSI CLASS 600
  F – ANSI CLASS 1500
  T – TUBING

VALVE TAG CODE

XX X X X (X)

- VALVE CODE
  VA – ANGLE VALVE
  VB – BALL VALVE
  VC – CHECK VALVE
  VG – GATE VALVE
  VF – BUTTERFLY VALVE
  VN – NEEDLE VALVE
  VP – PLUG VALVE
  VT – GLOBE VALVE
- VALVE PRESSURE CLASS
  A – ANSI CLASS 150
  B – ANSI CLASS 300
  D – ANSI CLASS 600
  T – SPECIAL
- MATERIAL CODE
  1 – CARBON STEEL
  3 – COPPER
  5 – TYPE 304 STAINLESS STEEL
  7 – TYPE 316 STAINLESS STEEL
  8 – PVC
- VALVE ENDS
  0 – RAISED FACE FLANGE
  1 – FLAT FACE FLANGE
  2 – RING TYPE JOINT
  3 – THREADED
  4 – SOCKET WELD
  5 – BUTT WELD
  7 – SPECIAL
  8 – GLUED
- SPECIAL DESIGNATION
  F – FULL PORT
  W – WAFER

CONTROL PANEL ABBREVIATIONS

BOP	BALANCE OF PLANT CONTROL PANEL (CMS)
CHP	CHP PLANT CONTROL PANEL
EMCP	ENGINE MANAGEMENT CONTROL PANEL
LOP	LUBE OIL TANK PANEL
PMS	POWER MANAGEMENT SYSTEM
UDP	UREA DOSING PANEL
WOP	WASTE OIL TANK PANEL

SERVICE / COMMODITY

AC – AFTERCOOLER CIRCUIT
BD – BLOWDOWN
CA – COMPRESSED AIR
CWR – COOLING WATER RETURN
CWS – COOLING WATER SUPPLY
CV – CRANKCASE VENT
FG – FUEL GAS
FIL – FILTERED WATER
HTW – HIGH TEMPERATURE WATER
IW – INDUSTRIAL WATER
JW – JACKET WATER
LO – LUBE OIL
LTW – LOW TEMPERATURE WATER
OW – OILY WATER
PW – POOL WATER
TW – TOWER WATER
UR – UREA
V – VENT
WO – WASTE OIL
WW – WASTE WATER

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT
49566 SEMINOLE DRIVE, CABAZON, CA 92230

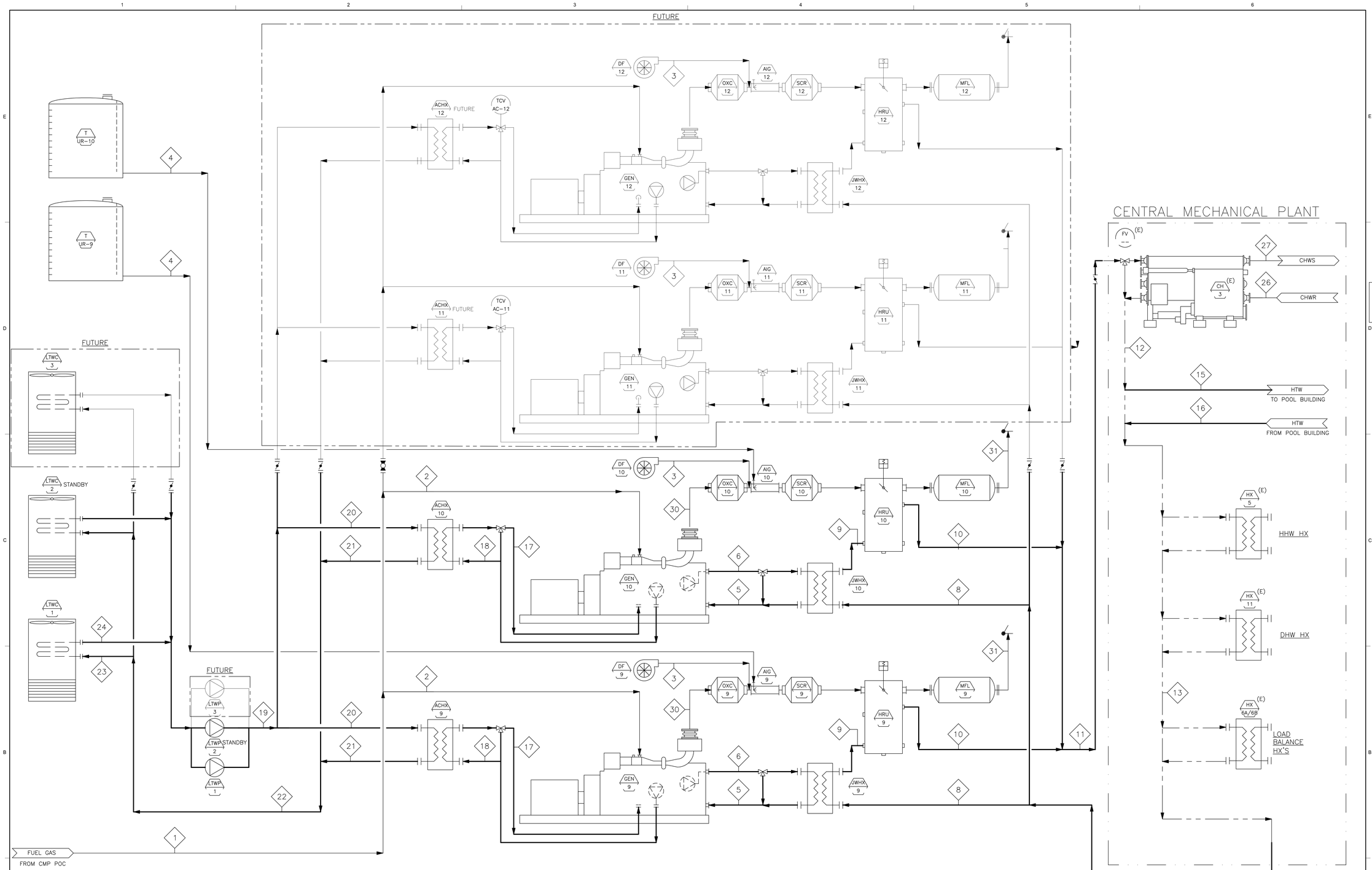
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID LEGEND

Sheet No.
IM-101



HEAT BALANCE TABLE 100% LOAD

Operating Gensets 2 Load 100% SUMMER PEAK 880 tons

		FUEL GAS TO ENGINES (SCFM)		DILUTION AIR (SCFM) (2)	UREA (GPH)	JACKET WATER		HTW CIRCUIT										AFTER COOLER WATER		LTW CIRCUIT							CHILLED WATER		EXHAUST (LB/HR)	EXHAUST (LB/HR)
STREAM NO.		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**30**	**31**
FLOW	GPM(1)	659	329	0	2.5	490	490	1,000	500	500	500	1,000	1,000	1,000	-	-	-	170	170	340	170	170	340	340	340		1,320	1,320	29,224	29,224
PRESSURE	PSIG	7	7																											
TEMPERATURE	F	77	77	77	80	190	210	175	175	193	210	210	180	175	-	-	-	118	130	112	112	124	124	124	112		58.0	42.0	730	270

NOTES:
1. Unless noted otherwise in the heading.
2. DF only runs if engine exhaust > 875F

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

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PHASE 2 - IFC 2026.06.10

Sheet Title
PROCESS FLOW DIAGRAM

Sheet No.
IM-102

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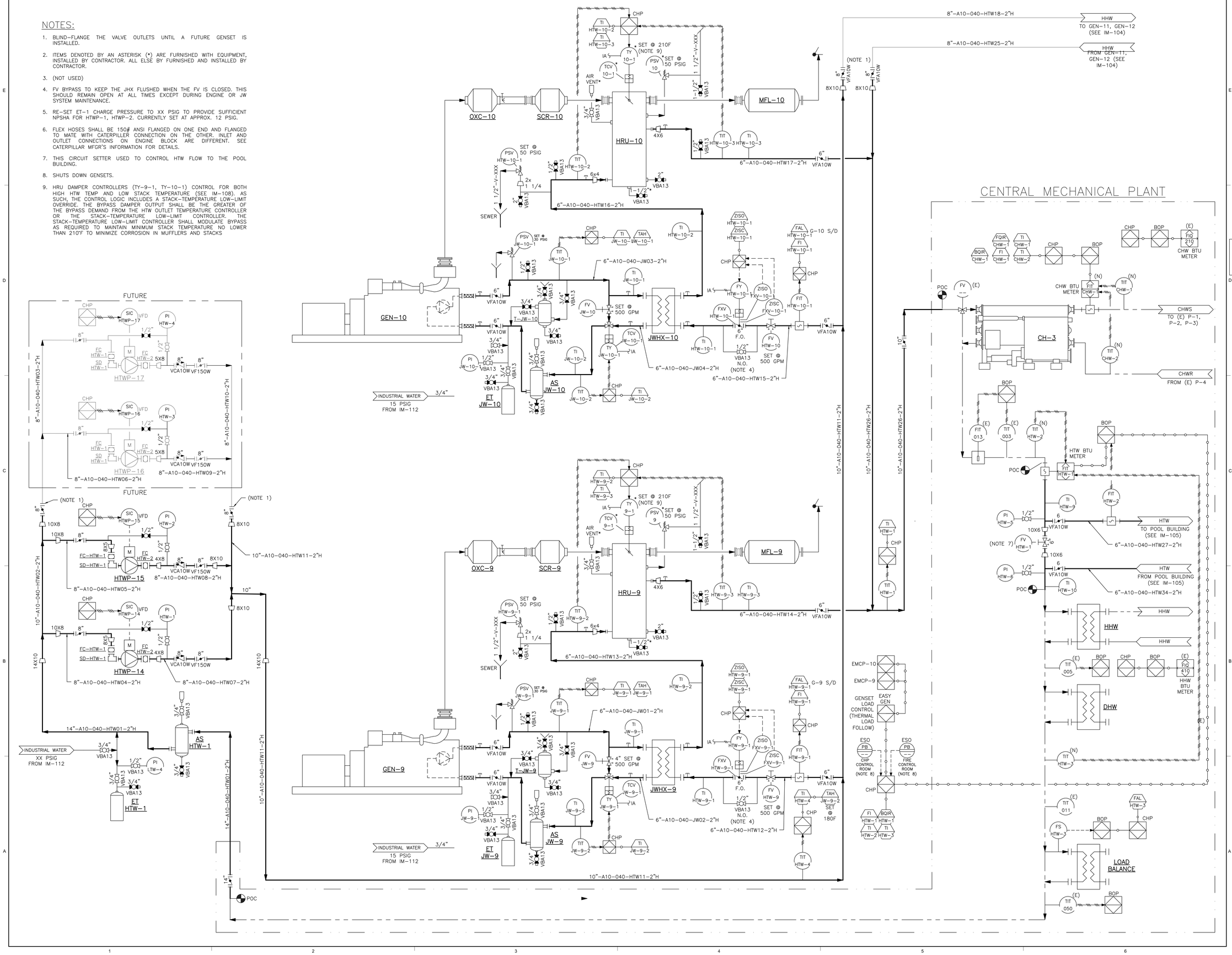
NOTES:

1. BLIND-FLANGE THE VALVE OUTLETS UNTIL A FUTURE GENSET IS INSTALLED.
2. ITEMS DENOTED BY AN ASTERISK (*) ARE FURNISHED WITH EQUIPMENT, INSTALLED BY CONTRACTOR. ALL ELSE BY FURNISHED AND INSTALLED BY CONTRACTOR.
3. (NOT USED)
4. FV BYPASS TO KEEP THE JHX FLUSHED WHEN THE FV IS CLOSED. THIS SHOULD REMAIN OPEN AT ALL TIMES EXCEPT DURING ENGINE OR JW SYSTEM MAINTENANCE.
5. RE-SET ET-1 CHARGE PRESSURE TO XX PSIG TO PROVIDE SUFFICIENT NPSHA FOR HTWP-1, HTWP-2. CURRENTLY SET AT APPROX. 12 PSIG.
6. FLEX HOSES SHALL BE 150# ANSI FLANGED ON ONE END AND FLANGED TO MATE WITH CATERPILLER CONNECTION ON THE OTHER. INLET AND OUTLET CONNECTIONS ON ENGINE BLOCK ARE DIFFERENT. SEE CATERPILLAR MFGR'S INFORMATION FOR DETAILS.
7. THIS CIRCUIT SETTER USED TO CONTROL HTW FLOW TO THE POOL BUILDING.
8. SHUTS DOWN GENSETS.
9. HRU DAMPER CONTROLLERS (TY-9-1, TY-10-1) CONTROL FOR BOTH HIGH HTW TEMP AND LOW STACK TEMPERATURE (SEE IM-108). AS SUCH, THE CONTROL LOGIC INCLUDES A STACK-TEMPERATURE LOW-LIMIT OVERRIDE. THE BYPASS DAMPER OUTPUT SHALL BE THE GREATER OF THE BYPASS DEMAND FROM THE HTW OUTLET TEMPERATURE CONTROLLER OR THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER. THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER SHALL MODULATE BYPASS AS REQUIRED TO MAINTAIN MINIMUM STACK TEMPERATURE NO LOWER THAN 210°F TO MINIMIZE CORROSION IN MUFFLERS AND STACKS



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID HIGH TEMPERATURE WATER

Sheet No.
IM-103

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NOTES:

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2. ITEMS DENOTED BY AN ASTERISK (*) ARE FURNISHED WITH EQUIPMENT, INSTALLED BY CONTRACTOR. ALL ELSE BY FURNISHED AND INSTALLED BY CONTRACTOR.
3. (NOT USED)
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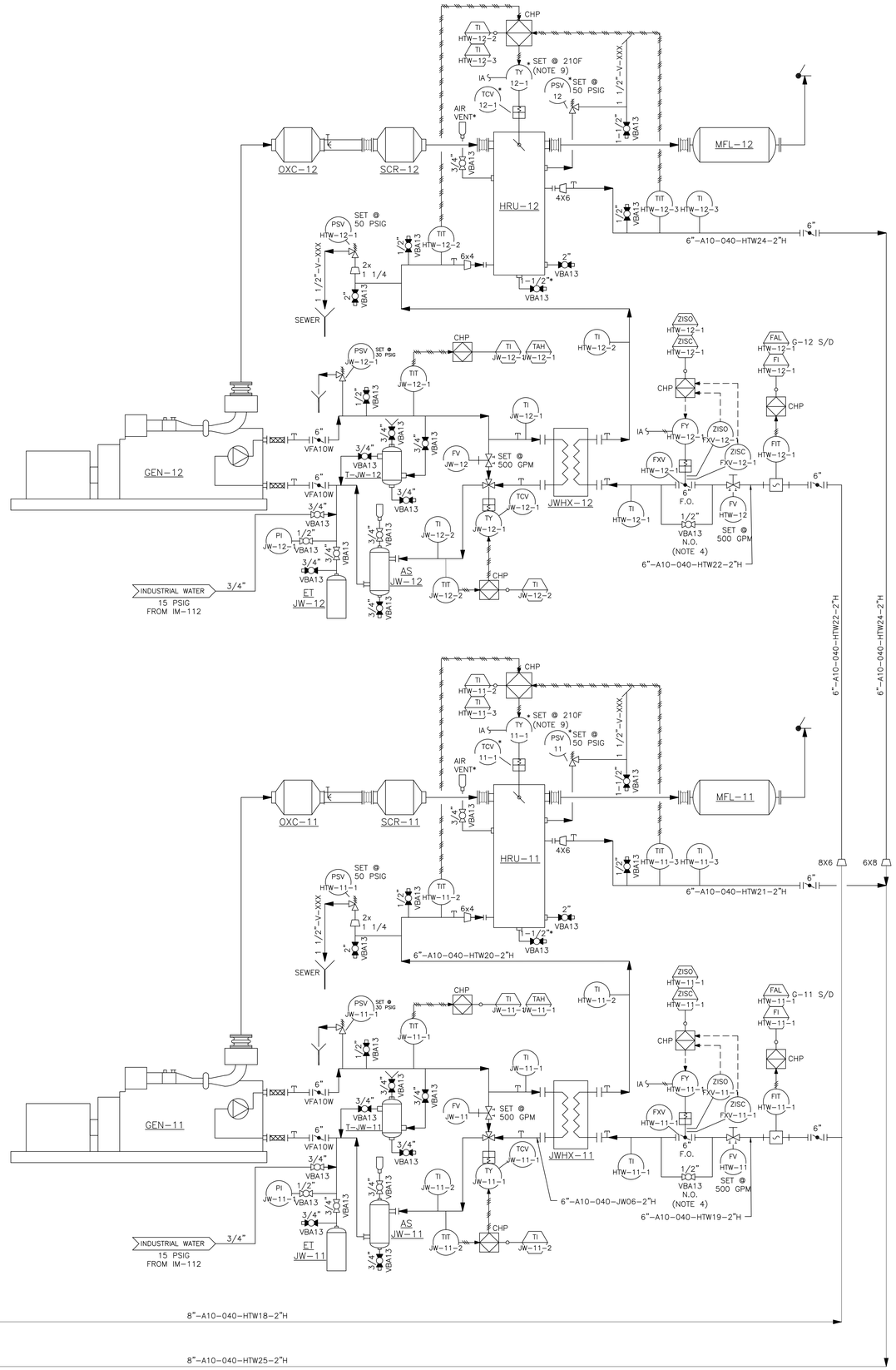
5. RE-SET ET-1 CHARGE PRESSURE TO XX PSIG TO PROVIDE SUFFICIENT NPSHA FOR HTWP-1, HTWP-2. CURRENTLY SET AT APPROX. 12 PSIG.
6. FLEX HOSES SHALL BE 150# ANSI FLANGED ON ONE END AND FLANGED TO MATE WITH CATERPILLER CONNECTION ON THE OTHER. INLET AND OUTLET CONNECTIONS ON ENGINE BLOCK ARE DIFFERENT. SEE CATERPILLAR MFGR'S INFORMATION FOR DETAILS.
7. THIS CIRCUIT SETTER USED TO CONTROL HTW FLOW TO THE POOL BUILDING.
8. SHUTS DOWN GENSETS.
9. HRU DAMPER CONTROLLERS (TY-9-1, TY-10-1) CONTROL FOR BOTH HIGH HTW TEMP AND LOW STACK TEMPERATURE (SEE IM-108). AS SUCH, THE CONTROL LOGIC INCLUDES A STACK-TEMPERATURE LOW-LIMIT OVERRIDE. THE BYPASS DAMPER OUTPUT SHALL BE THE GREATER OF THE BYPASS DEMAND FROM THE HTW OUTLET TEMPERATURE CONTROLLER OR THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER. THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER SHALL MODULATE BYPASS AS REQUIRED TO MAINTAIN MINIMUM STACK TEMPERATURE NO LOWER THAN 210°F TO MINIMIZE CORROSION IN MUFFLERS AND STACKS



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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
HIGH
TEMPERATURE
WATER (FUTURE)

Sheet No.
IM-104

2/18/2026 2:12:00 PM
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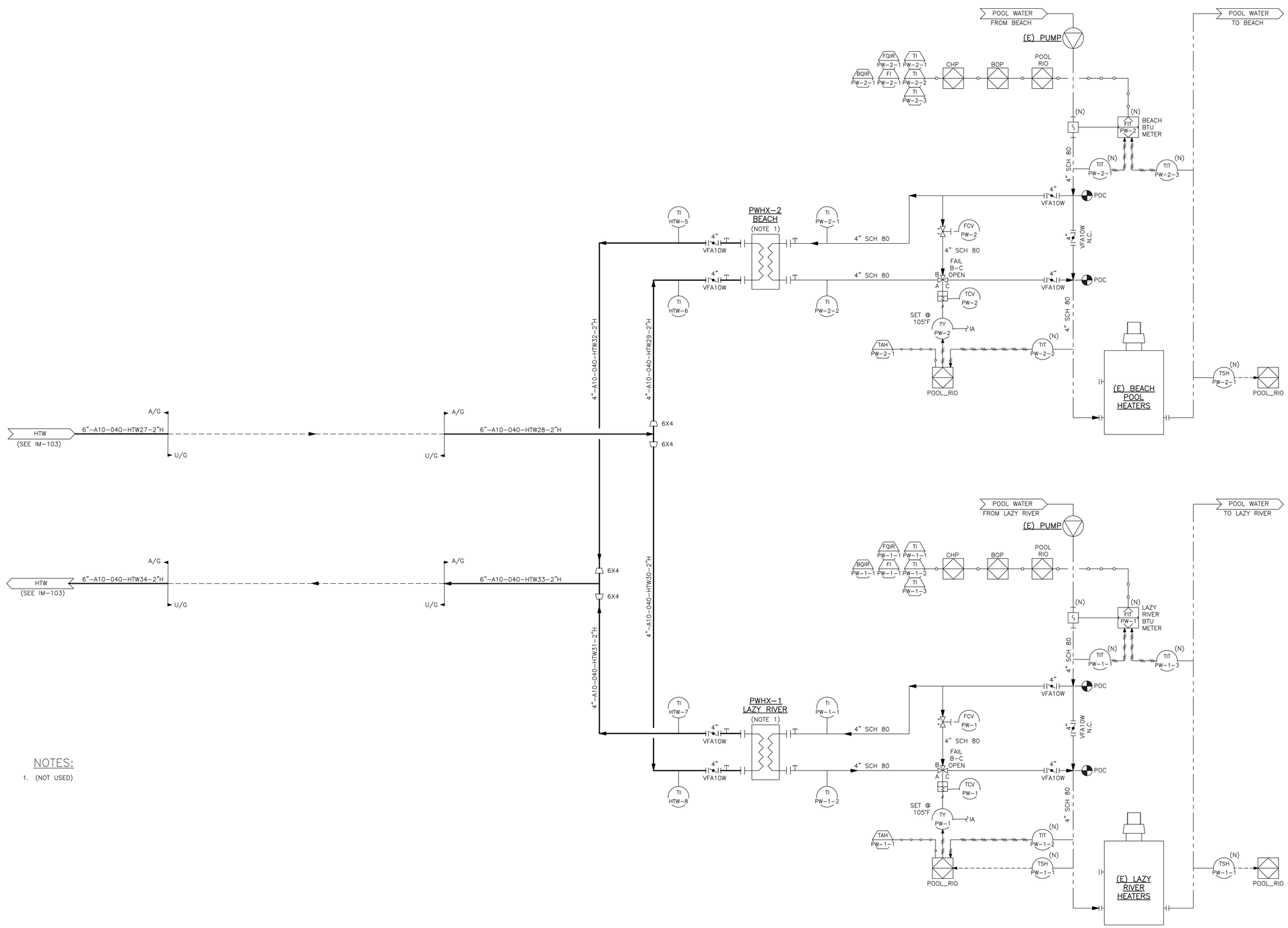

NOTES:

1. (NOT USED)

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CABAZON, CA 92230

PROJECT NO. 24231

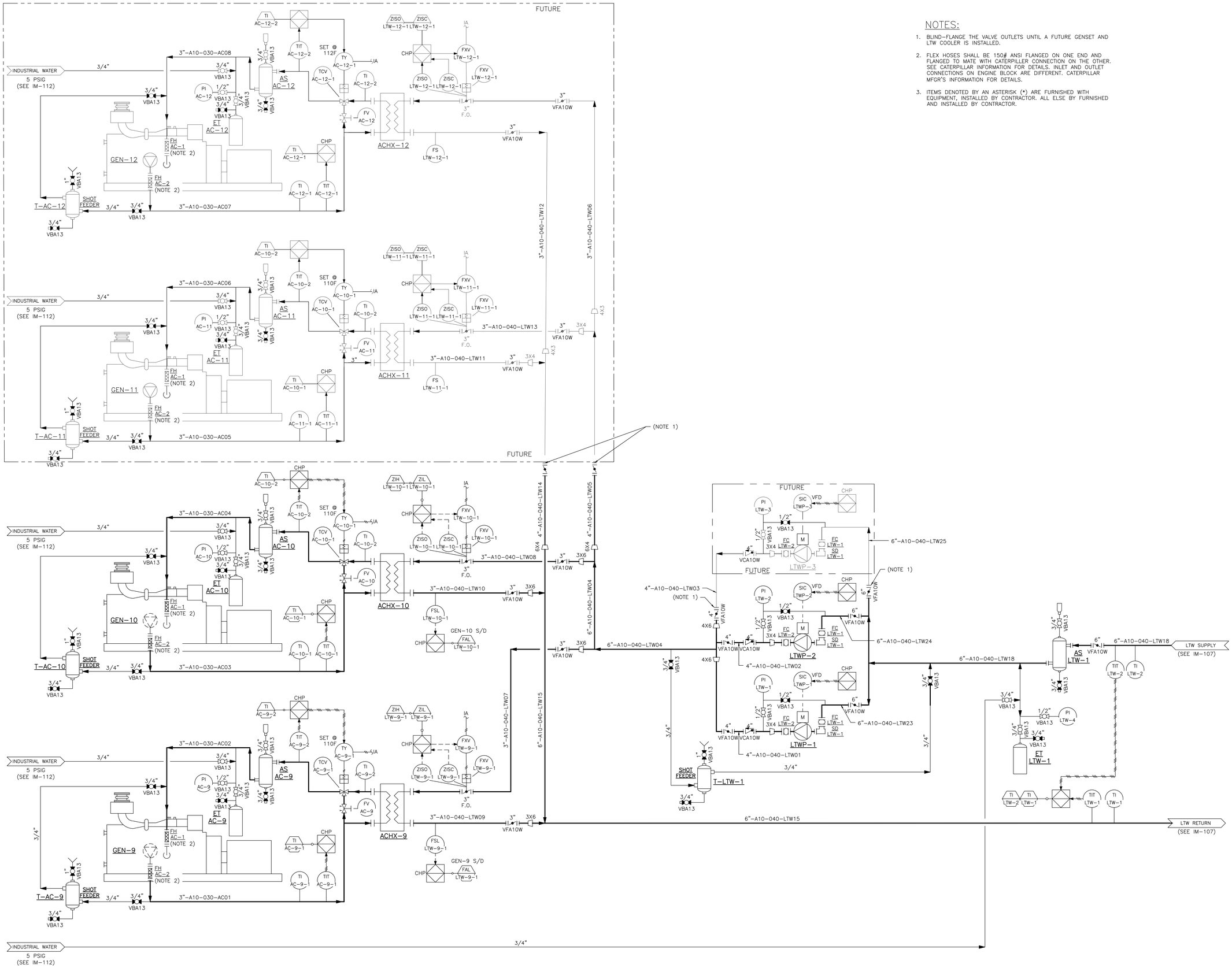
REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
POOL HEATING WATER

Sheet No.
IM-105

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



NOTES:

1. BLIND-FLANGE THE VALVE OUTLETS UNTIL A FUTURE GENSET AND LTW COOLER IS INSTALLED.
2. FLEX HOSES SHALL BE 150# ANSI FLANGED ON ONE END AND FLANGED TO MATE WITH CATERPILLER CONNECTION ON THE OTHER. SEE CATERPILLAR INFORMATION FOR DETAILS. INLET AND OUTLET CONNECTIONS ON ENGINE BLOCK ARE DIFFERENT. CATERPILLAR MFGR'S INFORMATION FOR DETAILS.
3. ITEMS DENOTED BY AN ASTERISK (*) ARE FURNISHED WITH EQUIPMENT, INSTALLED BY CONTRACTOR. ALL ELSE BY FURNISHED AND INSTALLED BY CONTRACTOR.

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REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LAMAR
M-30735
Expires 09/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED 06-10-26

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
LOW TEMPERATURE WATER

Sheet No.
IM-106

2/18/2026 2:12:00 PM
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THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

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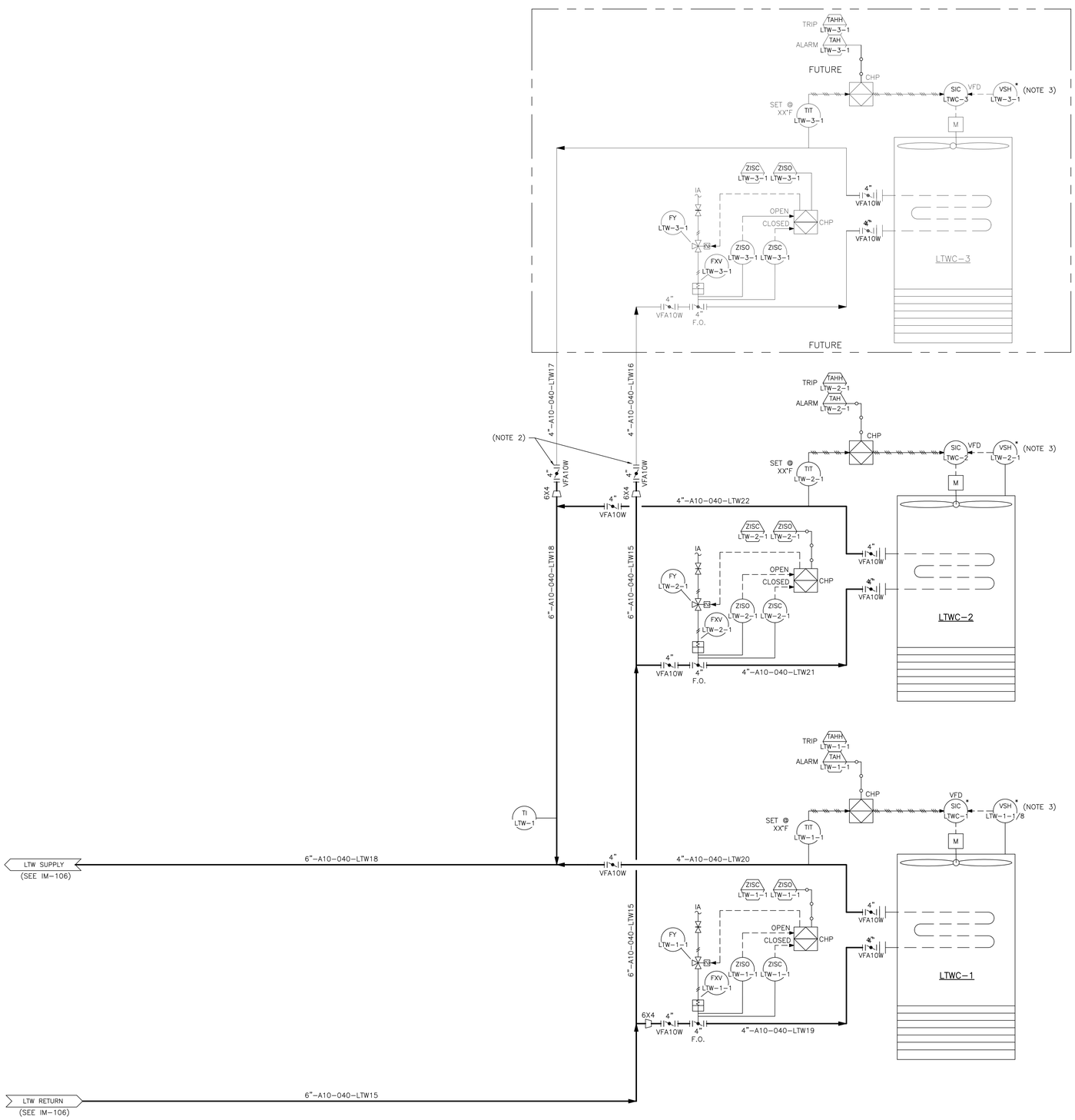

NOTES:

1. ITEMS DENOTED BY ASTERISK (*) ARE SUPPLIED BY OWNER OR EQUIPMENT VENDOR, INSTALLED BY CONTRACTOR.
2. BLIND-FLANGE THE VALVE OUTLETS UNTIL AN FUTURE EQUIPMENT IS INSTALLED.
3. EACH DRY COOLER HAS EIGHT (8) FANS. EACH FAN HAS A DEDICATED VIBRATION SWITCH.

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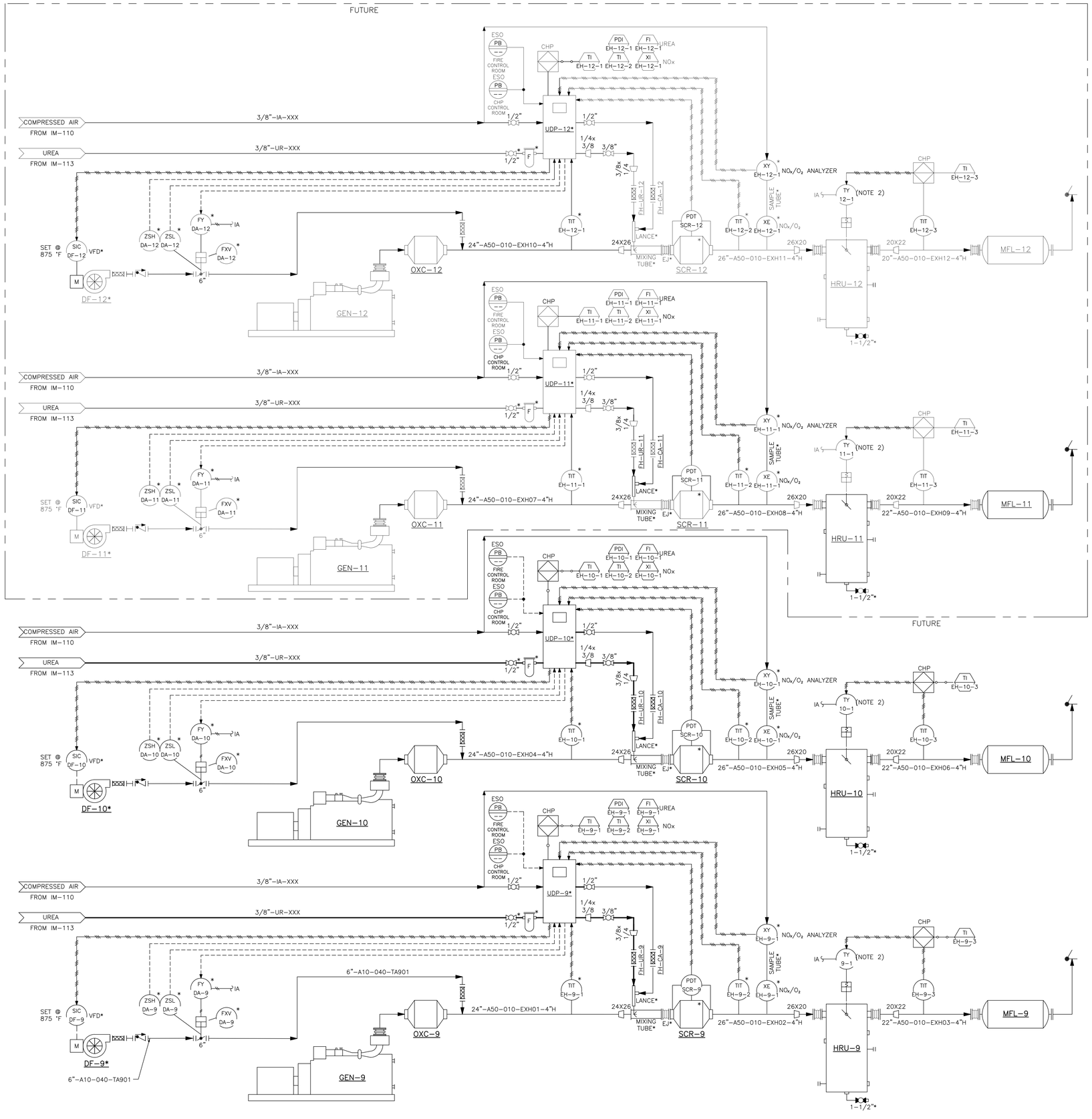
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
LTW COOLERS

Sheet No.
IM-107



NOTES:

1. ITEMS NOTED WITH AN ASTERISK (*) ARE FURNISHED BY EQUIPMENT MFGR, INSTALLED BY CONTRACTOR.
2. HRU DAMPER CONTROLLERS (TY-9-1, TY-10-1) CONTROL FOR BOTH HIGH HTW TEMP (SEE IM-103/104) AND LOW STACK TEMPERATURE. AS SUCH, THE CONTROL LOGIC INCLUDES A STACK-TEMPERATURE LOW-LIMIT OVERRIDE. THE BYPASS DAMPER OUTPUT SHALL BE THE GREATER OF THE BYPASS DEMAND FROM THE HTW OUTLET TEMPERATURE CONTROLLER OR THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER. THE STACK-TEMPERATURE LOW-LIMIT CONTROLLER SHALL MODULATE BYPASS AS REQUIRED TO MAINTAIN MINIMUM STACK TEMPERATURE NO LOWER THAN 210°F TO MINIMIZE CORROSION IN MUFFLERS AND STACKS

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
EXHAUST

Sheet No.
IM-108

2/18/2026 2:12:00 PM
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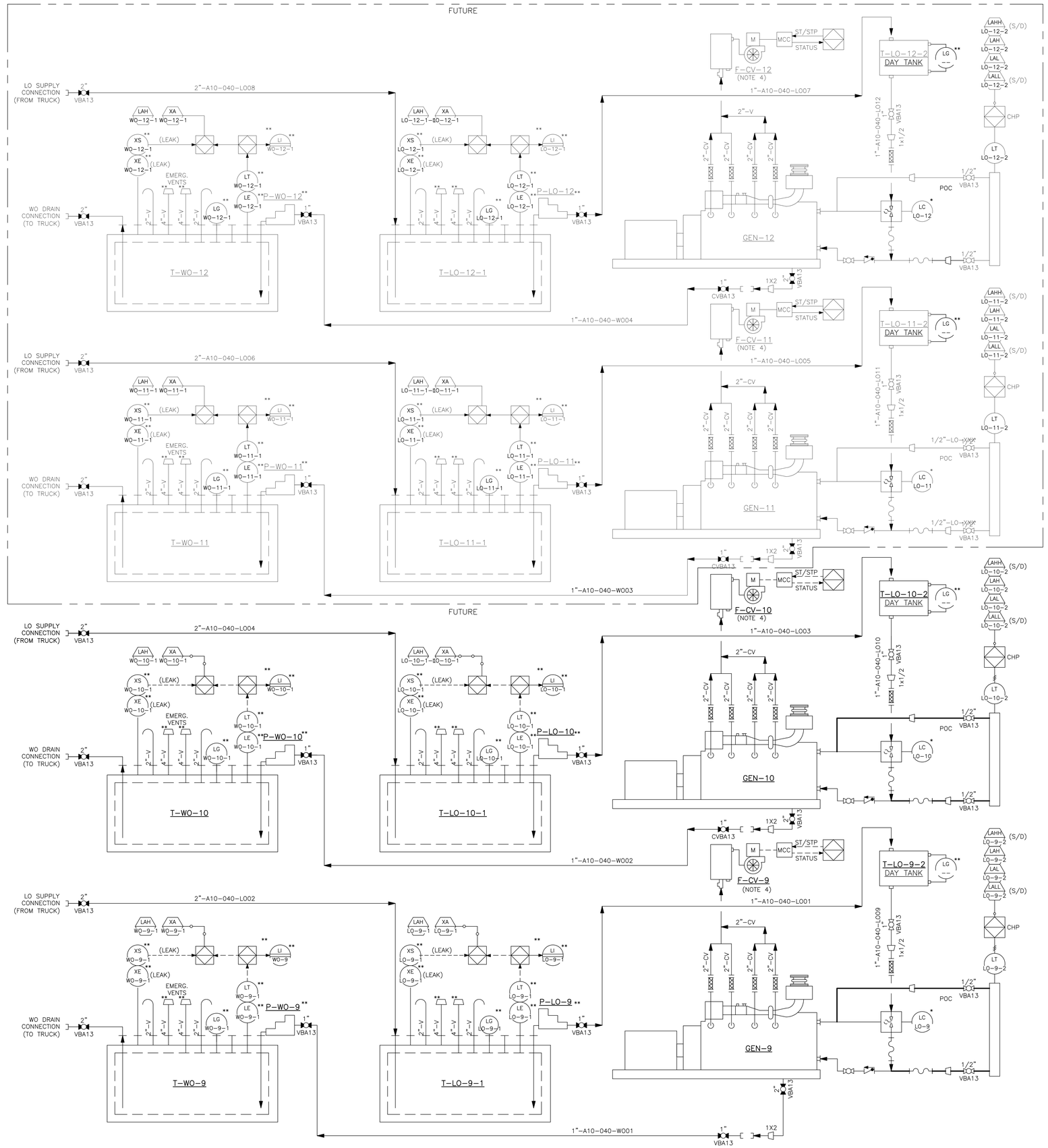

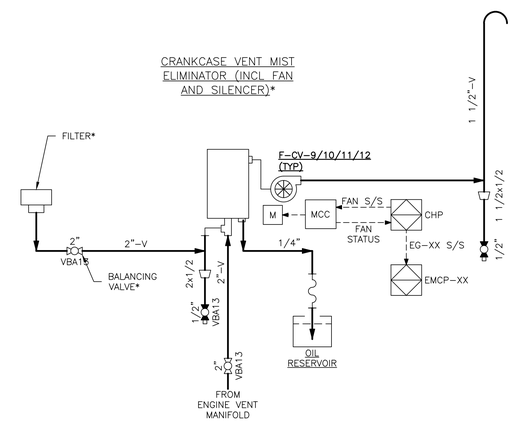

CRANKCASE VENT DETAILS

NOTES:

1. ITEMS NOTED WITH AN ASTERISK (*) ARE FURNISHED BY QUINN, INSTALLED BY CONTRACTOR.
2. ITEMS DENOTED BY DOUBLE ASTERISK ARE FURNISHED BY TANK MFGR, INSTALLED BY CONTRACTOR.
3. VENT PIPING ON TANKS FURNISHED AND INSTALLED BY CONTRACTOR
4. SEE CRANKCASE VENTILATION DETAILS THIS SHEET.
5. FILLING OF LUBE OIL DAY TANKS IS A MANUAL OPERATION.

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PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
LUBE OIL & WASTE OIL

Sheet No.
IM-109

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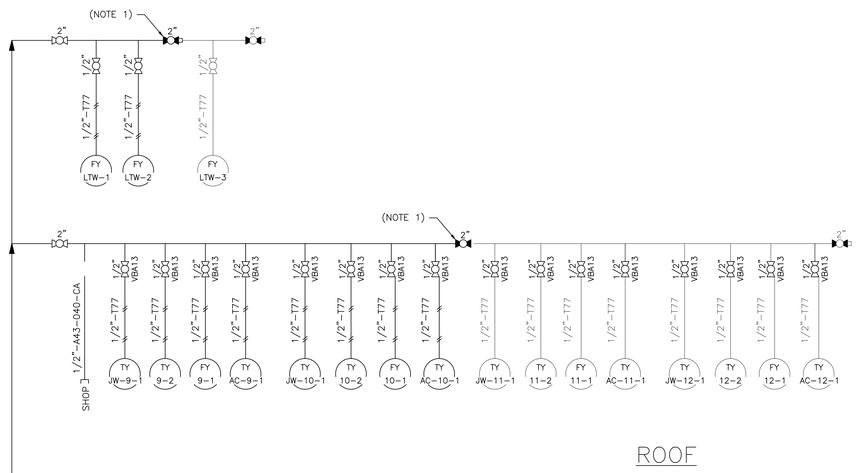
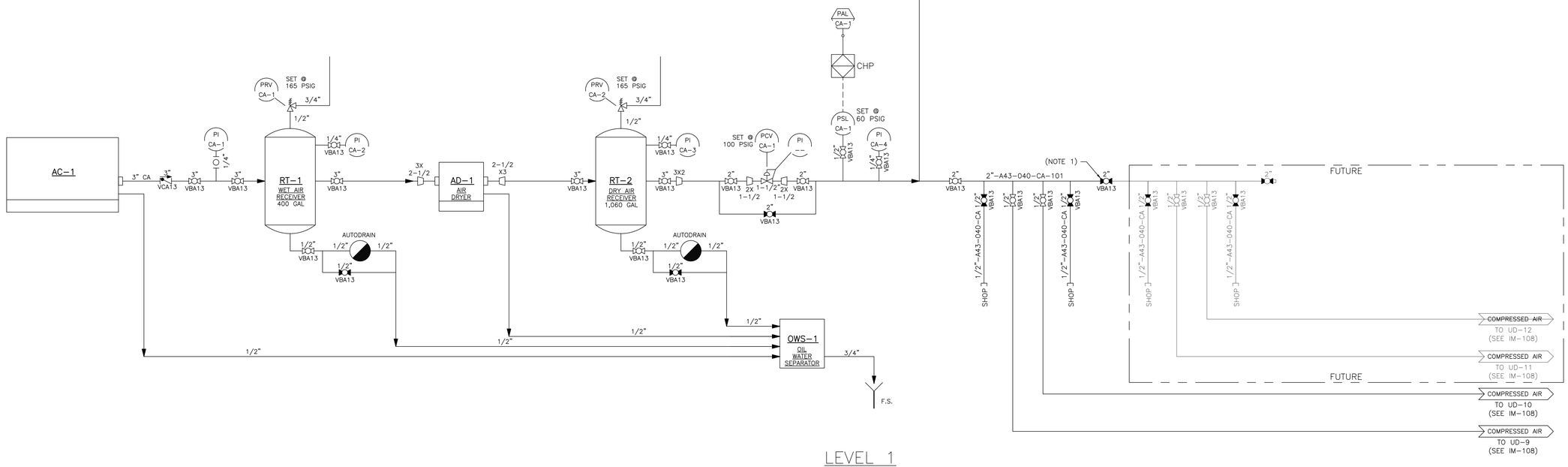
NOTES:

1. INSTALL THREADED PLUG IN VALVE OUTLET UNTIL AN ADDITIONAL GENSETS ARE INSTALLED.



ROOF



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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

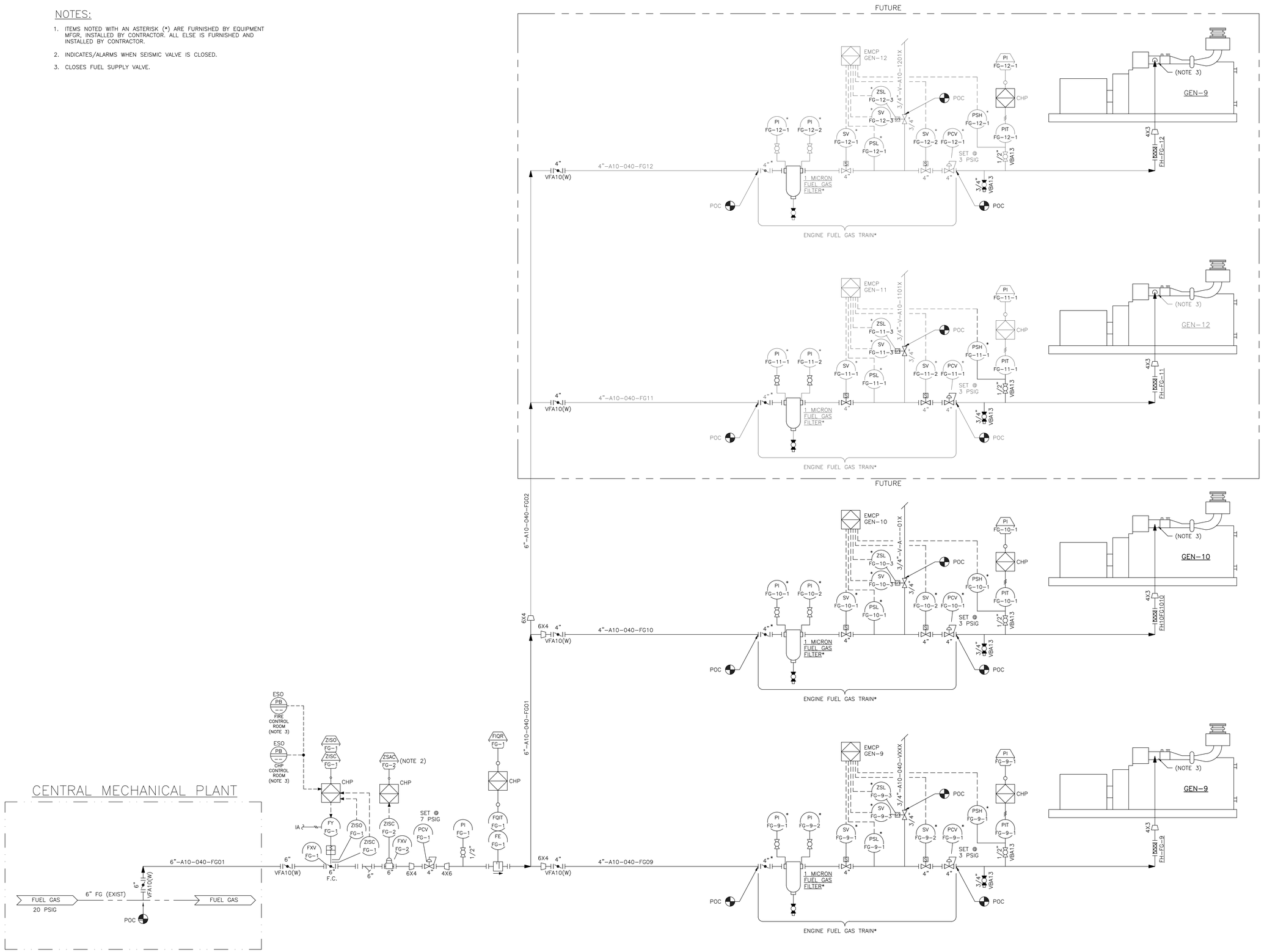
PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID COMPRESSED AIR

Sheet No.
IM-110

NOTES:

1. ITEMS NOTED WITH AN ASTERISK (*) ARE FURNISHED BY EQUIPMENT MFGR, INSTALLED BY CONTRACTOR. ALL ELSE IS FURNISHED AND INSTALLED BY CONTRACTOR.
2. INDICATES/ALARMS WHEN SEISMIC VALVE IS CLOSED.
3. CLOSES FUEL SUPPLY VALVE.



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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
FUEL GAS

Sheet No.
IM-111

2/18/2026 2:12:00 PM
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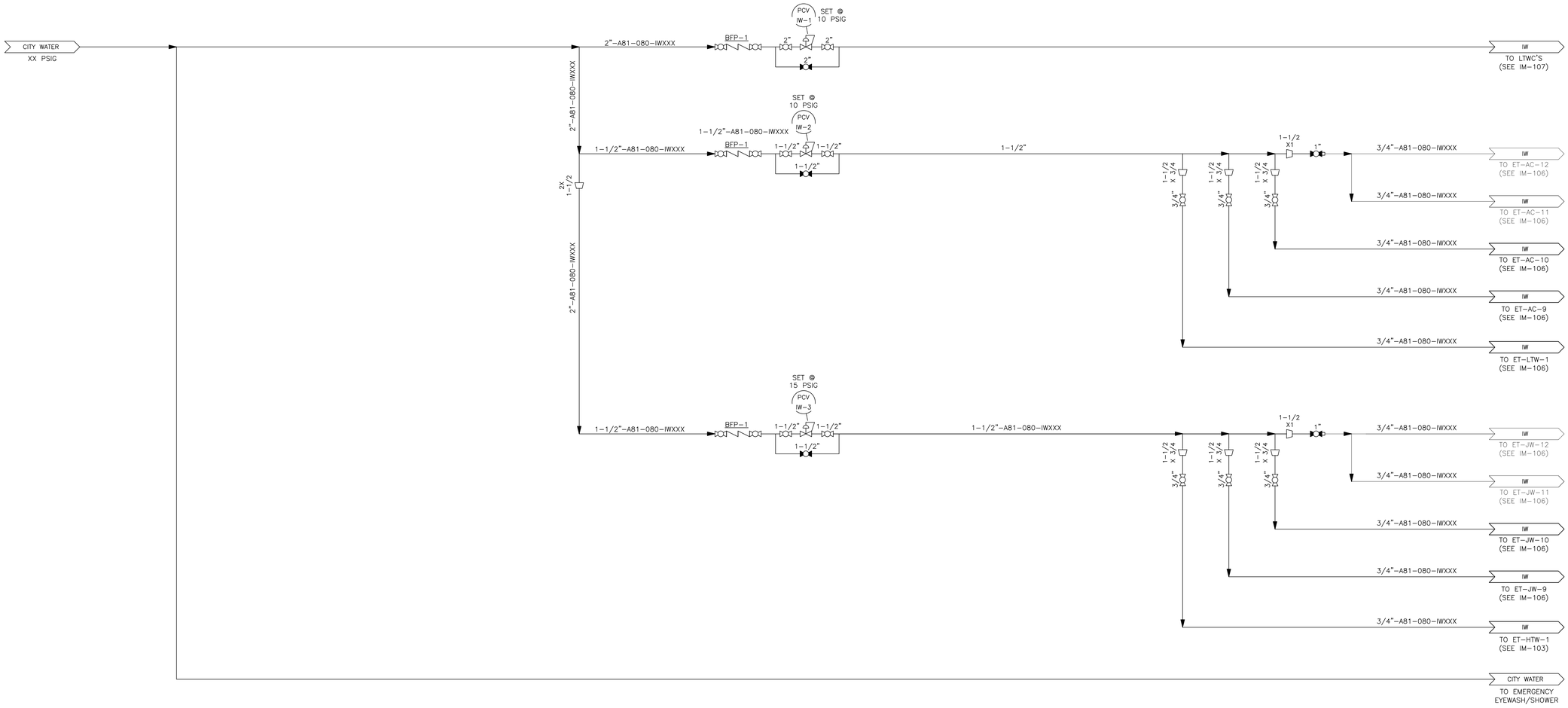

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
INDUSTRIAL
WATER

Sheet No.
IM-112

2/18/2026 2:12:20 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

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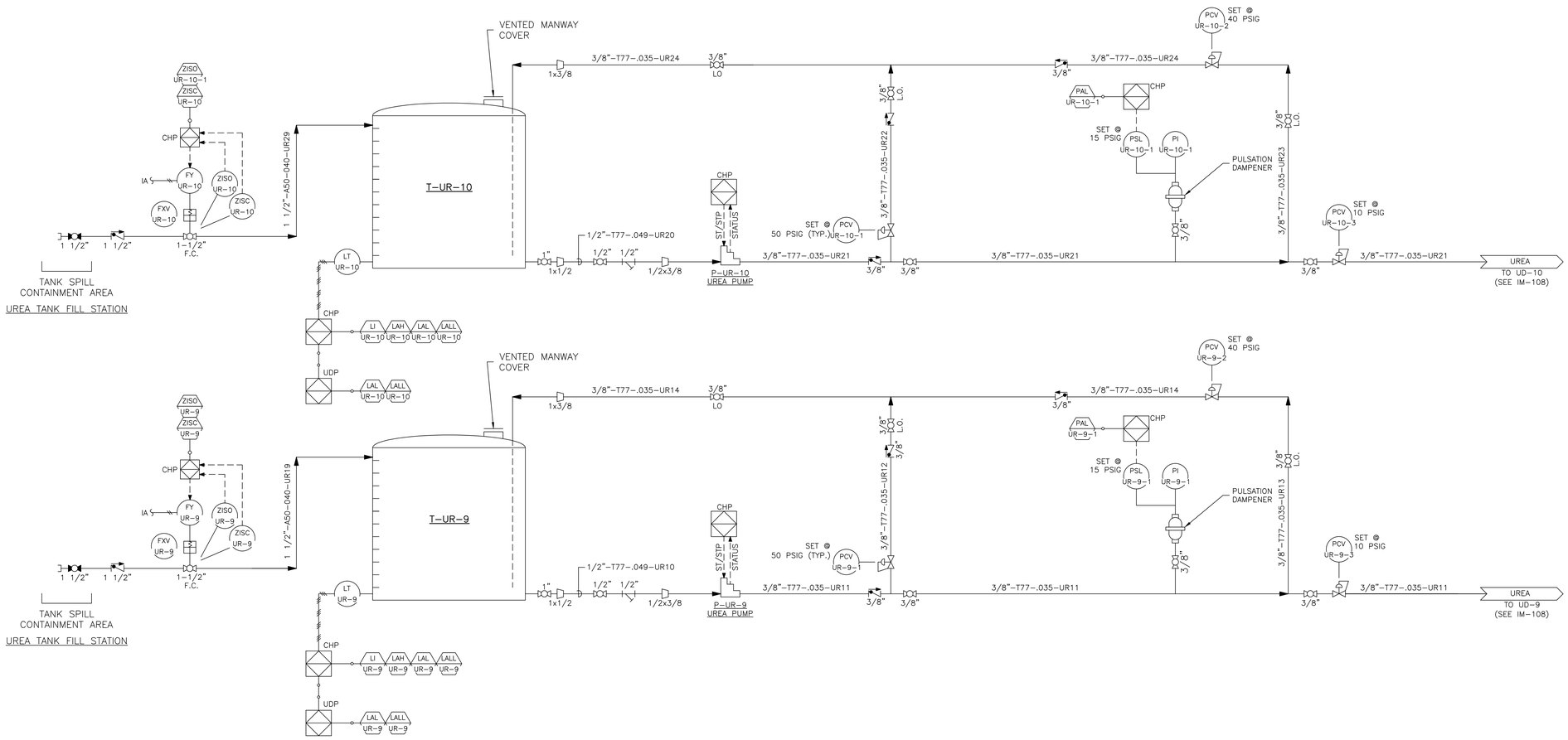

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
P&ID
UREA

Sheet No.
IM-113

2/18/2026 2:12:00 PM
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GENERAL NOTES

1. NAMEPLATES SHALL BE ENGRAVED LAMINATED PLASTIC OF NOTED SIZE AND COLOR, AFFIXED WITH ADHESIVE.
2. LABELS SHALL BE PRINTED, GENERALLY BLACK ON WHITE, AFFIXED WITH ADHESIVE AND LOCATED AS REQUIRED BY UL 508A.
3. EACH END OF ALL PANEL CONDUCTORS HAVE A MACHINE PRINTED, UL RECOGNIZED, SELF-LAMINATING CABLE MARKER IDENTIFYING THE TERMINAL ON WHICH IT LANDS.
4. EACH END OF ALL PANEL PNEUMATIC TUBING SHALL HAVE A MACHINE PRINTED, SELF-LAMINATING TUBING MARKER IDENTIFYING THE PROCESS VALVE TAG AND/OR THE PORT IN WHICH IT TERMINATES
5. PANEL CONDUCTORS SHALL BE SIZED FOR AMPACITY PER UL508A:

31A TO 40A:	8AWG
21A TO 30A:	10AWG
16A TO 20A:	12 AWG
11A TO 15A:	14 AWG
8A TO 10A:	16 AWG
7A OR LESS:	18 AWG
AC SIGNAL:	16 AWG
DC SIGNAL:	18-30 AWG

6. PANEL CONDUCTOR COLOR CODING SHALL BE AS FOLLOWS:

480 VAC PHASING:	BROWN/ORANGE/YELLOW
120 VAC HOT:	BLK
24 VAC HOT:	RED
120/24 VAC NEUTRAL:	WHT OR NEUTRAL
120 VAC HOT (ENERGIZED WHEN DISCONNECT IS OFF):	YEL
120 VAC NEUTRAL (ENERGIZED WHEN DISCONNECT IS OFF):	WHT/YEL STRIPE
24 VDC HOT:	BLU
24 VDC COMMON:	WHT/BLU STRIPE
GROUND	GRN, GRN/YEL STRIPE

7. FIELD SIGNAL CONDUCTORS SHALL BE SIZED FOR AMPACITY AS REQUIRED BY THE NEC, GENERALLY EQUIVALENT TO THE FOLLOWING:

ANALOG, 18 AWG STP	BELDEN 1032A
DISCRETE, 24 VDC, 18 AWG	BELDEN 9409
DISCRETE, 120 VAC, 14 AWG	SITE STANDARD
RTD, 4-WIRE, 18 AWG	BELDEN 9552
RS-485 (MODBUS, DNP), PLENUM, 24 AWG	BELDEN 89841
RS-485 (MODBUS, DNP), NON-PLENUM, 24 AWG	BELDEN 9841
FIELDBUS, PROFIBUS, DEVICENET, ASI	SEE SEGMENT DWG.
THERMOCOUPLE EXTENSION, TYPE J, 16 AWG	BELDEN 1000A
THERMOCOUPLE EXTENSION, TYPE K, 16 AWG	BELDEN 1018A

8. FIELD CONDUCTOR COLOR CODING SHALL BE AS FOLLOWS:

ANALOG, POSITIVE	WHITE
ANALOG, NEGATIVE	BLACK
DISCRETE, 24 VDC, POSITIVE	RED
DISCRETE, 24 VDC, NEGATIVE	BLACK
DISCRETE, 120 VAC, LINE	BLACK
DISCRETE, 120 VAC, NEUTRAL	WHITE
GROUND	GREEN
RTD, LEADS 1 AND 2 (RED)	RED
RTD. LEADS 3 AND 4 (WHITE)	BLACK
THERMOCOUPLE EXTENSION, TYPE J, POSITIVE	WHITE
THERMOCOUPLE EXTENSION, TYPE K, POSITIVE	YELLOW
THERMOCOUPLE EXTENSION, NEGATIVE	RED

Server Cabinet WIRING
FIELD WIRING/ HIDDEN Server Cabinet ELEMENTS
CONNECTION DOTS
ENCLOSURE / SPACE

SYMBOLS / ABBREVIATIONS

F# X — FUSE
CB-# X — CIRCUIT BREAKER
1 — BILL OF MATERIALS CALLOUT
1 — NAMEPLATE
1 — LABEL REFERENCE
F-7 — OFF PAGE REFERENCE
1 — NOTE REFERENCE
1 — REVISION REFERENCE

DRAWING LIST

DRAWING NO.	TITLE
IC-825004-0100	Leadsheet
IC-825004-0100A	Network Addresses
IC-825004-0100B	Network Addresses
IC-825004-0100C	Network Addresses
IC-825004-0100D	Network Addresses
IC-825004-0101	Data Cabinet Bill Of Materials
IC-825004-0102	Data Cabinet Rack Layout
IC-825004-0103	CHP Control Room Layout
IC-825004-0110	Plant LAN
IC-825004-0111	Control LAN
IC-825004-0112	CHP to BOP Comms
IC-825004-0113	CHP DLR
IC-825004-0114	BOP DLR
IC-825004-0115	BOP Modbus RTU (VFDs)
IC-825004-0116	BOP Modbus RTU (Chillers)
IC-825004-0117	DH+
IC-825004-0118	Pool RIO

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Leadsheet

Sheet No.

IC-825004-0100

Plant System LAN Nodes					
CHP Control Room					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
CHP_HMI1_NIC1	CHP Control Room HMI 1 NIC 1	TBD	255.255.255.0	CHP Control Room	New control room PC
CHP_HMI2_NIC1	CHP Control Room HMI 2 NIC 1	TBD	255.255.255.0	CHP Control Room	New control room PC

Control LAN Nodes					
CHP Comms Room Server Cabinet					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
CHP_CNTRL_LAN_SW	Cisco 48 Port Rack Mount Switch	TBD	255.255.255.0	CHP Comms Room	New CHP installation
CHP_HIST_SER	Dell PowerEdge Historian Server	TBD	255.255.255.0	CHP Comms Room	New CHP installation
CHP_HMI1_NIC2	CHP Control Room HMI 1 NIC 2	TBD	255.255.255.0	CHP Control Room	New control room PC
CHP_HMI2_NIC2	CHP Control Room HMI 2 NIC 2	TBD	255.255.255.0	CHP Control Room	New control room PC
CHP_EN2T1	CHP CP 1756-EN2T	TBD	255.255.255.0	CHP CP	New CHP installation
RTAC	SEL RTAC Controller	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG9_SEL_750	EG9 SEL 750	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG10_SEL_750	EG10 SEL 750	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG11_SEL_750	EG11 SEL 750	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
EG12_SEL_750	EG12 SEL 750	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
EG9_EMCP	EG9 Mechanical Electrical Data	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG10_EMCP	EG10 Mechanical Electrical Data	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG11_EMCP	EG11 Mechanical Electrical Data (Future)	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
EG12_EMCP	EG12 Mechanical Electrical Data (Future)	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
EG9_DEF	EG9 Johnson Matthey Urea Skid	TBD	255.255.255.0	CHP Building	New CHP installation
EG10_DEF	EG10 Johnson Matthey Urea Skid	TBD	255.255.255.0	CHP Building	New CHP installation
EG11_DEF	EG11 Johnson Matthey Urea Skid (Future)	TBD	255.255.255.0	CHP Building	Future CHP installation
EG12_DEF	EG12 Johnson Matthey Urea Skid (Future)	TBD	255.255.255.0	CHP Building	Future CHP installation
EG9_PM	EG9 Power Meter	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG10_PM	EG10 Power Meter	TBD	255.255.255.0	CHP Electrical Room	New CHP installation
EG11_PM	EG11 Power Meter (Future)	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
EG12_PM	EG12 Power Meter (Future)	TBD	255.255.255.0	CHP Electrical Room	Future CHP installation
BOP Comms Room Data Cabinet					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
BOP_CNTRL_LAN_SW	Cisco 16 Port Ethernet Switch	TBD	255.255.255.0	BOP Comms Room	New BOP installation
BOP_EN2T1	BOP CP 1756-EN2T	TBD	255.255.255.0	BOP CP	New BOP installation
Pool Equipment Room					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
POOL_CNTRL_LAN_SW	Stratix 2000 4-Port Unmanaged Fiber Switch	N/A	255.255.255.0	Pool RIO Panel	New BOP installation
POOL_AENT	1734-AENT Pool RIO	TBD	255.255.255.0	Pool RIO Panel	New BOP installation
LR_BTU	Lazy River BTU Meter ModbusTCP Adapter	TBD	255.255.255.0	Pool Equipment Bldg	New BOP installation
BEACH_BTU	Beach BTU Meter ModbusTCP Adapter	TBD	255.255.255.0	Pool Equipment Bldg	New BOP installation
BESS Building					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
BESS_CNTRL_LAN_SW	NAT Router to Tesla Site Controller	Public- TBD Private- TBD	255.255.255.0	BESS Switch Panel	New CHP installation
BESS_CNTRL	BESS Tesla Site Controler	TBD	255.255.255.0	BESS Building	New CHP installation

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Network Addresses

Sheet No.

IC-825004-0100A

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CHP Device Level Ring Nodes					
CHP CP					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
CHP_EN2TR1	1756-EN2TR CHP I/O DLR Rack 1	192.168.2.10	255.255.255.0	CHP CP	New CHP installation
CHP_EN2TR2	1756-EN2TR CHP I/O DLR Rack 2	192.168.2.11	255.255.255.0	CHP CP	New CHP installation
CHP_ETAP1	1783-ETAP Connection for Safety Relay	192.168.2.12	255.255.255.0	CHP CP	New CHP installation
CHP_CSR	Guardmaster 440C-CR30 Safety Relay Ethernet-IP Module	192.168.2.13	255.255.255.0	CHP CP	New CHP installation
CHP Comms Room Server Cabinet					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
CHP_DLR_SW1	Stratix 16 Port Copper DLR Switch for VFD ETH/IP Comms	192.168.2.20	255.255.255.0	CHP Comms Room	New CHP installation
HHW_P14	ABB ACH580 TBDHP Heating Hot Water Pump 14	192.168.2.30	255.255.255.0	CHP Building	New CHP installation
HHW_P15	ABB ACH580 TBDHP Heating Hot Water Pump 15	192.168.2.31	255.255.255.0	CHP Building	New CHP installation
HHW_P16	ABB ACH580 TBDHP Heating Hot Water Pump 16 (Future)	192.168.2.32	255.255.255.0	CHP Building	Future CHP installation
LT_CT1	ABB ACH580 TBDHP Low Temp Cooling Tower 1 Fan	192.168.2.40	255.255.255.0	CHP Building	New CHP installation
LT_CT2	ABB ACH580 TBDHP Low Temp Cooling Tower 2 Fan	192.168.2.41	255.255.255.0	CHP Building	New CHP installation
LT_CT3	ABB ACH580 TBDHP Low Temp Cooling Tower 3 Fan (Future)	192.168.2.42	255.255.255.0	CHP Building	Future CHP installation
LT_P1	ABB ACH580 TBDHP Low Temp Pump 1	192.168.2.50	255.255.255.0	CHP Building	New CHP installation
LT_P2	ABB ACH580 TBDHP Low Temp Pump 2	192.168.2.51	255.255.255.0	CHP Building	New CHP installation
LT_P3	ABB ACH580 TBDHP Low Temp Pump 3 (Future)	192.168.2.52	255.255.255.0	CHP Building	Future CHP installation
DF_9	ABB ACH580 TBDHP Gen-9 Exhaust Blower	192.168.2.53	255.255.255.0	CHP Building	New CHP installation
DF_10	ABB ACH580 TBDHP Gen-10 Exhaust Blower	192.168.2.54	255.255.255.0	CHP Building	New CHP installation
DF_11	ABB ACH580 TBDHP Gen-11 Exhaust Blower	192.168.2.55	255.255.255.0	CHP Building	Future CHP installation
DF_12	ABB ACH580 TBDHP Gen-12 Exhaust Blower	192.168.2.56	255.255.255.0	CHP Building	Future CHP installation

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BOP Device Level Ring Nodes					
New BOP Panel					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
BOP_EN2TR1	1756-EN2TR BOP DLR Comms Rack 1	192.168.1.140	255.255.255.0	BOP CP	New BOP Installation
BOP_EN2TR2	1756-EN2TR BOP DLR Comms Rack 2	192.168.1.141	255.255.255.0	BOP CP	New BOP Installation
BOP Comms Room Data Cabinet					
DLR Switch 1 Network					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
BOP_DLR_SW1	Stratix 16 Port Copper DLR Switch for VFD ETH/IP Comms	192.168.1.131	255.255.255.0	BOP Comms Room	New BOP Installation
CDW_P8	ABB ACH580 150HP Condenser Water Pump 8	192.168.1.108	255.255.255.0	Chiller Room	Currently on temporary switch in RIO1, run new CAT6 to new switch
CDW_P10	ABB ACH580 150HP Condenser Water Pump 10	192.168.1.110	255.255.255.0	Chiller Room	Currently on temporary switch in RIO1, run new CAT6 to new switch
CT_F1	ABB ACH550 75HP Cooling Tower 1 Fan	192.168.1.121	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 1, add new ETH/IP comms module and run new CAT6 to new switch
CT_F3	ABB ACH550 75HP Cooling Tower 3 Fan	192.168.1.123	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 1, add new ETH/IP comms module and run new CAT6 to new switch
CHW_P1	ABB ACH400 100HP Chilled Water Pump 1	192.168.1.125	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 1, replace VFD with ABB ACH580 with ETH/IP comms module and run new CAT6 to new switch
CHW_P3	ABB ACH550 100HP Chilled Water Pump 3	192.168.1.127	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 1, add new ETH/IP comms module and run new CAT6 to new switch
HRW_P12	ABB ACH550 100HP Heat Recovery Water Pump 12	192.168.1.129	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 1, add new ETH/IP comms module and run new CAT6 to new switch
PW_P1	ABB ACH580 TBDHP Pool Water Pump 1	192.168.1.133	255.255.255.0	Chiller Room	New ABB ACH580 with EtherNet/IP Comms Module
DLR Switch 2 Network					
BOP_DLR_SW2	Stratix 16 Port Copper DLR Switch for VFD ETH/IP Comms	192.168.1.132	255.255.255.0	BOP Comms Room	New BOP Installation
CDW_P9	ABB ACH580 150HP Condenser Water Pump 9	192.168.1.109	255.255.255.0	Chiller Room	Currently on temporary switch in RIO2, run new CAT6 to new switch
CDW_P11	ABB ACH580 150HP Condenser Water Pump 11	192.168.1.111	255.255.255.0	Chiller Room	Currently on temporary switch in RIO2, run new CAT6 to new switch
CT_F2	ABB ACH580 75HP Cooling Tower 2 Fan	192.168.1.122	255.255.255.0	Chiller Room	Currently on temporary switch in RIO2, run new CAT6 to new switch
CT_F4	ABB ACH580 75HP Cooling Tower 4 Fan	192.168.1.124	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 2, add new ETH/IP comms module and run new CAT6 to new switch
CHW_P2	ABB ACH580 100HP Chilled Water Pump 2	192.168.1.126	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 2, add new ETH/IP comms module and run new CAT6 to new switch
HRW_P13	ABB ACH550 100HP Heat Recovery Water Pump 13	192.168.1.128	255.255.255.0	Chiller Room	Currently on existing BOP Modbus RTU network 2, add new ETH/IP comms module and run new CAT6 to new switch
HTW_BTU_1	Hot Water BTU Meter	192.168.1.134	255.255.255.0	Chiller Room	New BOP Installation
CHW_BTU_1	CH-3 Chilled Water BTU Meter	192.168.1.136	255.255.255.0	Chiller Room	New BOP Installation
Existing RIO 1 Panel					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
RIO1_ETAP1	1783-ETAP Connection for RIO DIGI	192.168.1.101	255.255.255.0	RIO1 Panel	Will stay
RIO1_DIGI1	Modbus RTU Comms for Chiller 4 & BTU Meters	192.168.1.102	255.255.255.0	RIO1 Panel	Will stay
RIO1_ETAP2	1783-ETAP Connection for RIO 1 HMI	192.168.1.103	255.255.255.0	RIO1 Panel	Will stay
RIO1_HMI	RIO 1 Panel PC HMI	192.168.1.104	255.255.255.0	RIO1 Panel	Will stay
RIO1_DIGI2	Modbus RTU Comms for Chillers 1, 2 & Water Softener	192.168.1.106*	255.255.255.0	RIO1 Panel	Will stay *Need to change IP from .132 to .106 for consistency
RIO1_AENTR	1783-AENTR RIO 1 I/O	192.168.1.105**	255.255.255.0	RIO1 Panel	Will stay ** Need to change IP from .200 to .105 for consistency
Existing RIO 2 Panel					
Node	**Description**	**IP**	**Subnet**	**Location**	**Notes**
RIO2_AENTR	1783-AENTR RIO 2 I/O	192.168.1.201	255.255.255.0	RIO2 Panel	Will stay
RIO2_ETAP1	Connection for RIO 2 HMI	192.168.1.202	255.255.255.0	RIO2 Panel	Will stay
RIO2_HMI	RIO 2 Panel PC HMI	192.168.1.203	255.255.255.0	RIO2 Panel	Will stay

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Modbus RTU Devices					
Existing BOP Panel					
(Baud 9600, Data Bits 8, Parity Even, Stop Bits 1)					
Node	**Description**	**MB Address**	**MB Master**	**Location**	**Notes**
CHW_P1	ABB ACH400 100HP Chilled Water Pump 1	10	MCM_01	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW1
CHW_P3	ABB ACH550 100HP Chilled Water Pump 3	11	MCM_01	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW1
HRW_P12	ABB ACH550 100HP Heat Recovery Water Pump 12	14	MCM_01	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW1
CT_F1	ABB ACH550 75HP Cooling Tower 1 Fan	16	MCM_01	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW1
CT_F3	ABB ACH550 75HP Cooling Tower 3 Fan	17	MCM_01	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW1
(Baud 9600, Data Bits 8, Parity Even, Stop Bits 1)					
Node	**Description**	**MB Address**	**MB Master**	**Location**	**Notes**
CHW_P2	ABB ACH580 100HP Chilled Water Pump 2	20	MCM_02	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW2
HRW_P13	ABB ACH550 100HP Heat Recovery Water Pump 13	24	MCM_02	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW2
CT_F4	ABB ACH580 75HP Cooling Tower 4 Fan	27	MCM_02	Chiller Room	Will be deleted. Comms change to ETH/IP to New BOP_DLR_SW2
Existing RIO 1 Panel					
(Baud 9600, Data Bits 8, Parity None, Stop Bits 1)					
Node	**Description**	**MB Address**	**MB Master**	**Location**	**Notes**
CH_4	Electric Chiller 4	4	RIO1_DIGI1	Chiller Room	Will stay
FIQ_210	Chilled Water BTU Meter	21	RIO1_DIGI1	Chiller Room	Will stay
FIQ_410	Hot Water BTU	41	RIO1_DIGI1	Chiller Room	Will stay
(Baud 9600, Data Bits 8, Parity None, Stop Bits 1)					
Node	**Description**	**MB Address**	**MB Master**	**Location**	**Notes**
CH_1	Electric Chiller 1	12	RIO1_DIGI2	Chiller Room	Will stay
CH_2	Electric Chiller 2	21	RIO1_DIGI2	Chiller Room	Will stay
WS_1	Water Softener	15	RIO1_DIGI2	Chiller Room	Will stay
(Baud 9600, Data Bits 8, Parity None, Stop Bits 1)					
Node	**Description**	**MB Address**	**MB Master**	**Location**	**Notes**
CT_F5	ABB ACH550 75HP Cooling Tower 5 Fan	5	RIO1_MCM	Chiller Room	Will stay
CDW_P14	ABB ACH550 125HP Cooling Tower 5 Condenser Water Pump 14	14	RIO1_MCM	Chiller Room	Will stay
CDW_P15	ABB ACH550 125HP Cooling Tower 5 Condenser Water Pump 15	15	RIO1_MCM	Chiller Room	Will stay
CHW_P16	ABB ACH550 125HP Chilled Water Pump 16	16	RIO1_MCM	Chiller Room	Will stay
CHW_P17	ABB ACH550 40HP Expansion Chilled Water Pump 17	17	RIO1_MCM	Warehouse	Will stay
CHW_P18	ABB ACH550 40HP Expansion Chilled Water Pump 18	18	RIO1_MCM	Warehouse	Will stay
HHW_P19	ABB ACH550 20HP Expansion Heating Hot Water Pump 19	19	RIO1_MCM	Warehouse	Will stay
HHW_P20	ABB ACH550 20HP Expansion Heating Hot Water Pump 20	20	RIO1_MCM	Warehouse	Will stay

DH+ Devices				
New BOP Panel				
(Baud 230.4k)				
Node	**Description**	**DH+ Address**	**Location**	**Notes**
MSTR_1	EG Controls Master PLC 1	1	Switchgear Room	Existing SLC
MSTR_2	EG Controls Master PLC 2	2	Switchgear Room	Existing SLC
HUB	EG Controls Data Collector PLC	3	Switchgear Room	Existing SLC
OIT_1	EG Controls Local OIT	4	Switchgear Room	May have updated to EG Controls Ethernet
GAS_GEN_1	EG Controls Gas Generator 1 PLC	5	Switchgear Room	Existing SLC
GAS_GEN_2	EG Controls Gas Generator 2 PLC	6	Switchgear Room	Existing SLC
GAS_GEN_3	EG Controls Gas Generator 3 PLC	7	Switchgear Room	Existing SLC
GAS_GEN_4	EG Controls Gas Generator 4 PLC	10	Switchgear Room	Existing SLC
HMI_1	EG Controls Control Room HMI	20	Existing Control Room	May have updated to EG Controls Ethernet. Will be deleted
BOP_DH	BOP PLC DH+ Scanner	12	BOP CP	Moved from existing BOP Panel
OIT_2	EG Controls HPS Fireroom OIT	14	HPS Fire Room	May have updated to EG Controls Ethernet.

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49566 SEMINOLE DRIVE,
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BILL OF MATERIALS: COMMS ROOM DATA CABINETS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
1	3	ea.	CHP CABINET, BOP CABINET, RTAC CABINET	Server Cabinet, 84"H x 29"W x 36"D, 44 RMU, 34" Usable Depth, 34" Max. Rail Spacing, 1500 lb. Wt. Cap., Black	Great Lakes Data Racks	GL840E-2936-B-SQM6P
2	8	ea.	-	Horizontal Single Sided Cable Manager, 1U, Finger Duct with Cover	Great Lakes Data Racks	CM-16
3	1	ea.	BOP_UPS1	UPS, APC Smart-UPS 1500VA Rackmount 2U	APC	SMT1500RM2UC
4	3	ea.	BOP_PDU,CHP_PDU, RTAC_PDU	2.9kW Single-Phase Metered Automatic Transfer Switch PDU, 2 120V L5-30P Inputs, 24 5_15/20R & 1 L-530R Outputs, 2U, TAA	TrippLite	PDUMH30AT
5	4	ea.	CHP_PP1, BOP_PP1, CHP_PP2, BOP_PP2	Fiber Patch Panel, 48 Port Rack Mount, LC Connectors, OM3 Compatible	FS	FHU-FPP48FLCH10GMM
6	4	ea.	-	FHD High Density 1U Rack Mount Enclosure with Accessory Pack for Fiber Patch Panels, Sliding Drawer, LC	FS	FHD-1UFCE
7	1	ea.	CHP_HIST_SERV	Historian Server, Dell PowerEdge R260 Rack Server, 32GB RAM, 2TB SAT, Windows Server Essentials	Dell	E104S001
8	1	ea.	CHP_CNTRL_LAN_SW	Ethernet Switch, Cisco Catalyst, Managed, 48 Port Rack Mounted, 4 SFP	Cisco	C1300-48FP-4G
9	1	ea.	BOP_CNTRL_LAN_SW	Ethernet Switch, Cisco Catalyst, Managed, 16 Port Rack Mounted, 4 SFP	Cisco	C1300-16P-4G
10	8	ea.	-	SFP Fiber Transceiver Module, TrippLite, Cisco Compatible, 1G Multi-Mode LC, GLC-SX-MMD	TrippLite	N286-01GSX-MDLC
11	4	ea.	-	Computer Power Cords, NEMA 5-15P to C13 - Heavy Duty, 15A, 125V, 14 AWG, 12ft. Black	TrippLite	P007-012
12	3	ea.	BOP_DLR_SW1, BOP_DLR_SW2, CHP_DLR_SW1	Ethernet Switch, Stratix 5200, 20 Port DIN Rail Mounted	Allen Bradley	1783-CMS20DP
13	3	ea.	-	Rack Mount Adjustable DIN Rail Bracket for EIO 19" Mount, 2RU, Black	FS	DINRAIL2U
14	36	ea.	-	Fiber Patch Cable, Duplex LC-LC, OM3 Multimode, SKU 185624 (0.2m)	FS	OM3LCDX
15	2	ea.	-	Fiber Patch Cable, Duplex LC-LC, OM3 Multimode, SKU 41729 (2m)	FS	OM3LCDX
16	6	ea.	-	Vertical Cable Manager, 70"H X 3.78"W X 7.5", Hinged Cover	Great Lakes Data Racks	VCM-84K

BILL OF MATERIALS: CONTROL ROOM

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
20	7	ea.	-	Monitor, Dell 24" Adjustable, 16:9 Aspect Ratio with Power Cables	Dell	S2425HSM
21	3	ea.	Workstation 1, Workstation 2, Workstation 3	Dell SFF PC, Intel Ultra 5 235 Processor, 16GB RAM, 256GB SSD, System Power Cord included, Options: NVIDIA® RTX™ A400- 4 GB GDDR6 half height 4 mDP to DP, No WLAN, Second Network Adapter (NIC) i226 LP, 360W PSU (supports graphics card), Vertical Stand, No Chassis Intrustion Switch	Dell	QCS1250
22	3	ea.	-	Dell Pro Plus Keyboard and Mouse KM7321W	Dell	580-AJIX
23	2	ea.	-	65" MultiSync PN-ME Series Large Format Display, ADS LCD	Sharp	PN-ME652
24	8	ea.	-	HDMI Cable, various lengths	Various	HDMI Cable
25	8	ea.	-	Mini DisplayPort to HDMI adapter	Various	mDP-HDMI adapter

BILL OF MATERIALS: REMOTE MONITORING LOCATION (TBD)

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
20	1	ea.	-	Monitor, Dell 24" Adjustable, 16:9 Aspect Ratio with Power Cables	Dell	S2425HSM
21	1	ea.	Workstation 4	Dell SFF PC, Intel Ultra 5 235 Processor, 16GB RAM, 256GB SSD, System Power Cord included, Options: NVIDIA® RTX™ A400- 4 GB GDDR6 half height 4 mDP to DP, No WLAN, Second Network Adapter (NIC) i226 LP, 360W PSU (supports graphics card), Vertical Stand, No Chassis Intrustion Switch	Dell	QCS1250
22	1	ea.	-	Dell Pro Plus Keyboard and Mouse KM7321W	Dell	580-AJIX
23	0	ea.	-	Not Used	N/A	N/A
24	1	ea.	-	HDMI Cable, various lengths	Various	HDMI Cable
25	1	ea.	-	Mini DisplayPort to HDMI adapter	Various	mDP-HDMI adapter
26	1	ea.	-	Mini Unmanaged 1x 10/100/1000Base-T RJ45 to 1x 1000Base-X SFP Gigabit Ethernet Media Converter, American Plug Standard	FS	UMC-GA1F1T
27	1	ea.	-	Cat5e Patch Cable	Various	Cat5e Patch

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Bill of Materials

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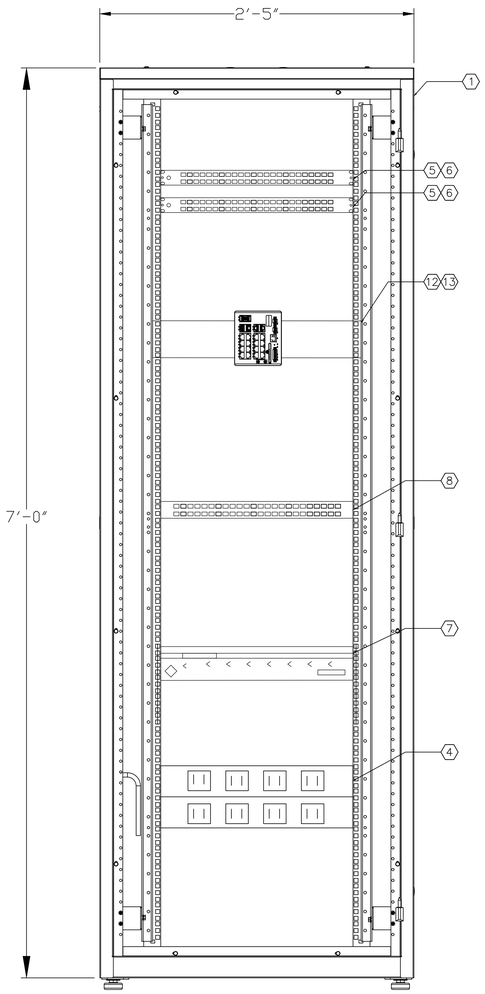
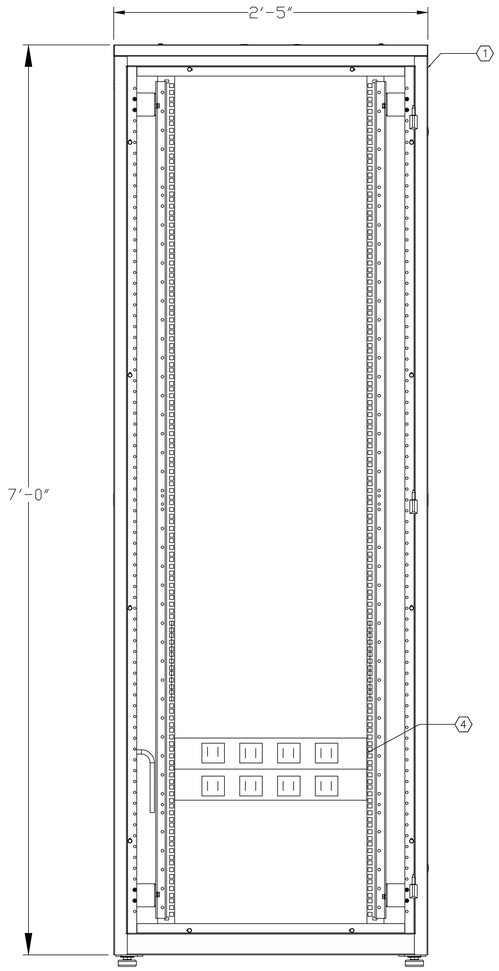
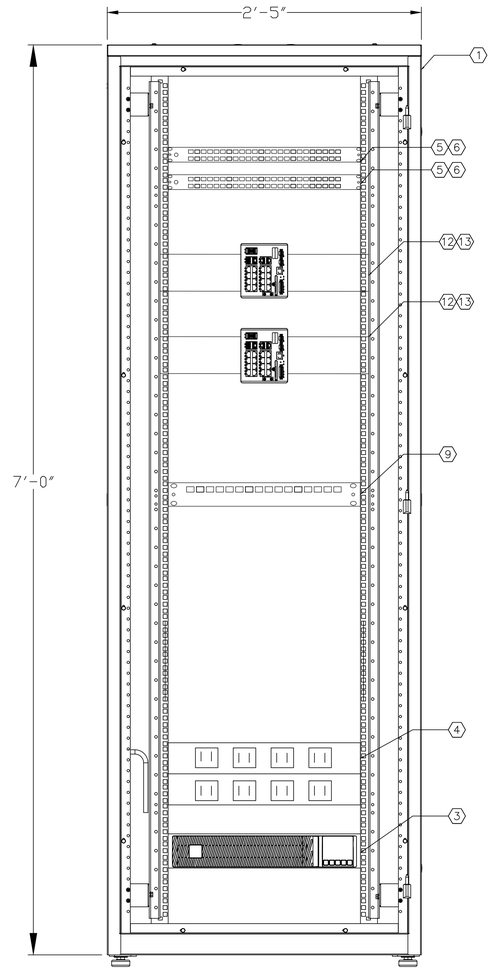
CHP

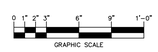


RTAC



BOP





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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Data Cabinet Rack Layout

Sheet No.

IC-825004-0102

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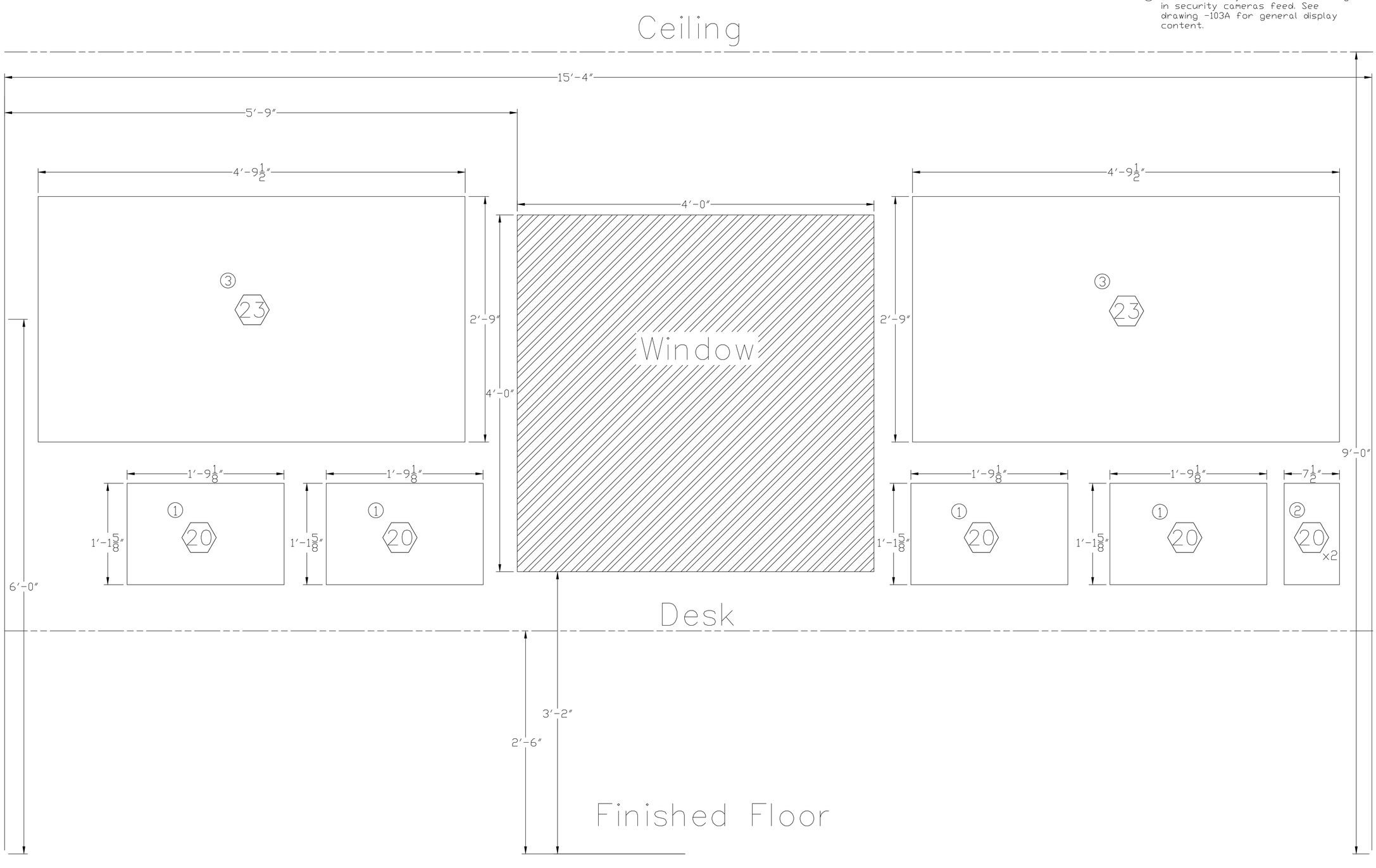
LINETYPE SCHEDULE

Division of space

NOTES

1. Display bezels are adjustable in height and may move horizontally along desk. See drawing -103A for general display content.
2. Switchgear monitors install on north desk, facing south. See drawing -103B for general display content.
3. KVM-switch may be utilized to bring in security cameras feed. See drawing -103A for general display content.



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

CHP Control Room Layout

Sheet No.

IC-825004-0103

All process graphic piping will ***not*** dynamically change color based on valve lineups and plant conditions. Standard coloring schema: running equipment and open valves are red, non-running equipment or closed valves are green, out-of-service equipment is yellow, alarms flash red. The following process displays will be tailored to specific hardware applicable to the existing BOP or new CHP plant:

1. Navigation Menu
    a. Selections for Generators, Alarm Summary, Chilled Water System, Low Temperature Water System, Heat Recovery System, Potable Water/Hydronic System, Tank Levels, Condenser Water System, Water Softener, System Parameters, Efficiency Monitoring , Trend Client
    b. User Login
    c. Global Alarm Reset
2. Generators Display
    a. Existing Generator power output
    b. Fuel Gas temperature, pressure, and flow transmitter faceplates with PV measurements
    c. New Generator exhaust data including: urea monitoring, NOx monitoring, SCR temperatures and pressure differentials, compressed air low pressure detection and alarming, urea low pressure detection and alarming.
3. Alarm Summary Display
    a. Historical Alarm Status
    b. Alarm management including global alarm reset
4. Chilled Water System Display
    a. Electric and Absorption chiller status and faceplates
    b. Chilled water temperature, pressure, and flow transmitter faceplates with PV measurements
    c. Control valve faceplate calls with feedback position measurements
    d. Pump status and faceplate calls with feedback frequency measurements
    e. PID Controller faceplate calls
    f. BTU Meter and Thermal calculations
5. Low Temperature Water System
    a. Low Temperature Water temperature transmitter faceplates with PV measurements
    a. Water Cooler status and faceplates with feedback speed measurements
    b. Ambient temperature and humidity measurements at plant
    c. Control valve faceplate calls with feedback position measurements
    d. Pump status and faceplate calls with feedback frequency measurements
    e. PID Controller faceplate calls
6. Heat Recovery Water System
    a. Generator power output
    b. Generator exhaust temperature
    c. Hot water temperature, pressure, and flow transmitter faceplates with PV measurements
    d. Control valve faceplate calls with feedback position measurements
    e. Pump status and faceplate calls with feedback frequency measurements
    f. PID Controller faceplate calls
    g. New pool heating loop
    h. BTU Meter and Thermal calculations
7. Potable Hot Water/Hydronic System
    a. Potable hot water/hydronic temperature, pressure, and flow transmitter faceplates with PV measurements
    b. Pump status and faceplate calls with feedback frequency measurements
    c. Control valve faceplate calls with feedback position measurements
    d. Lead/Lag and system control
8. Tank Levels
    a. Urea storage, lube oil storage, and day tank levels
    b. Leak monitoring and detection
9. Condenser Water System Display
    a. Electric and Absorption chiller status and faceplates
    b. Cooling tower status and faceplates with feedback speed measurements
    c. Ambient temperature and humidity measurements at plant
    d. Makeup water control status
    e. Condenser water temperature, pressure, conductivity, level, and flow transmitter faceplate calls with PV measurements
    f. Control valve faceplate calls with feedback position measurements
    g. Pump status and faceplate calls with feedback frequency measurements
    h. PID Controller faceplate calls
10. Water Softener Display
    a. Brine level monitoring and transfer control
    b. Treated water flowrate transmitter faceplate call with feedback flowrate measurement
11. System Parameters
    a. Engineering screen with auto-rotation prioritization and setpoint schedules for all equipment, PID setpoints
12. Efficiency Monitoring
    a. Combined Chilled and HHW BTU Meter and Thermal calculations
    b. Electrical Efficiency Calculations
    c. Combined Efficiency Calculations
13. Trend Client
    a. Historian Trend Client (external program call)

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49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

CHP Display Content

Sheet No.

IC-825004-0103A

Standard coloring schema: running equipment and closed breakers are red, non-running equipment or open breakers are green, out-of-service equipment is yellow, alarms flash red.

S01 – Microgrid Overview
Purpose: High-level view of microgrid state.

Key elements:

- Net load, POI import/export, bus voltage and frequency
- Resource summary (DG fleet, BESS, PV, POI)
- Alarm snapshot and quick actions

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S02 – Single Line Diagram
Purpose: Electrical one-line view for operations and troubleshooting.

Key elements:

- Breaker states for POI, PV, BESS, and each genset
- Power flow arrows and bus metering
- Tap equipment to navigate to detail screens

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
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S03 – Mode & Sequencing
Purpose: Control and monitor transitions between Grid-Connected and Island modes.

Key elements:

- Mode selection (Grid / Island / Black Start / Test)
- Step-by-step islanding/resync sequencer with progress
- Permissives and interlocks checklist

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
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S04 - Dispatch & Load Sharing
Purpose: View and manage dispatch allocations, limits, and reserve.

Key elements:

- Unit dispatch table (kW/kVAr actual vs commanded)
- POI import/export limits, BESS charge/discharge limits
- Reserve and load-shed thresholds overview

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S05 - Genset Fleet Overview
Purpose: Fleet status for all Woodward easygen-controlled diesel generators.

Key elements:

- Per-unit status tiles with breaker, kW, V/Hz, PF, fuel
- Aggregated fleet KPIs and headroom
- Fleet-level actions (start/stop, load share enable)

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S06 - EG-8 Detail (3.0 MW)
Purpose: Detailed electrical and engine information plus commands for DG1.

Key elements:

- Generator metering, breaker control, kW/kVAr setpoints
- Engine health (fuel, RPM, temperatures, run hours)
- Local alarms and maintenance indicators

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S07 - CG1 Detail (2.5 MW)
Purpose: Detailed electrical and engine information plus commands for DG2.

Key elements:

- Generator metering, breaker control, kW/kVAr setpoints
- Alarms and Status Indicators

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S08 - CG2 Detail (2.5 MW)
Purpose: Detailed electrical and engine information plus commands for DG3.

Key elements:

- Generator metering, breaker control, kW/kVAr setpoints
- Engine health and run hours
- Local alarms and maintenance indicators

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S09 - Existing DGs Detail (2.0 MW)
Purpose: Detailed electrical and engine information plus commands for DG4.

Key elements:

- Generator metering, breaker control, kW/kVAr setpoints
- Alarms and Status Indicators

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S10 - BESS Overview & Control (2.5 MW)
Purpose: Monitor SOC and operate the BESS for dispatch and grid support.

Key elements:

- SOC, charge/discharge power, breaker state
- Grid support functions (Freq-Watt, Volt-VAR, droop)
- Modes and commands (enable/disable, SOC target)

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S11 – PV Overview (4 MW)
Purpose: Monitor PV plant output and apply curtailment/reactive settings.

Key elements:

- Plant kW output

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S12 – POI Status & Resync
Purpose: Utility interconnect supervision and return-to-grid sequencing.

Key elements:

- POI breaker status, sync check values $(\Delta f,\ \Delta V,\ \Delta\phi)$
- Import/export and PF/reactive limits
- Commands for open/close with sync permissives

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
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- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S13 - Alarms & Event Log
Purpose: Central alarm list, acknowledgement tools, and event history.

Key elements:

- Alarm summary counts by priority
- Active alarm table with filtering
- Event log of actions and transitions

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S14 – Trends
Purpose: Time-series trending of key electrical and asset tags.

Key elements:

- Bus voltage/frequency, POI kW/PF
- DG/PV/BESS outputs and BESS SOC
- Time range selection and export

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S15 - Comms & System Health
Purpose: Communications diagnostics and server/runtime status.

Key elements:

- Device comms matrix with protocol/IP/status
- Time synchronization status and actions
- Runtime health (CPU/memory/disk/historian)

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
- Use alarm colors consistently (e.g., red=active, amber=warning/unacked, green=healthy, gray=disabled).
- Where applicable, show tag quality and last-update timestamp for communications loss detection.

S16 - Settings & Tools
Purpose: Restricted configuration and engineering utilities.

Key elements:

- Critical setpoints/limits list with access level
- User login and permissions summary
- Tag browser, backups, audit log, diagnostics

Implementation notes:

- Bind displayed values to validated engineering units (kW, kV, Hz, kVAr, %, etc.).
- Commands (start/stop/close/open, setpoint writes) should be secured by role and logged to an audit trail.
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49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

PMS Display Content

Sheet No.

IC-825004-0103B

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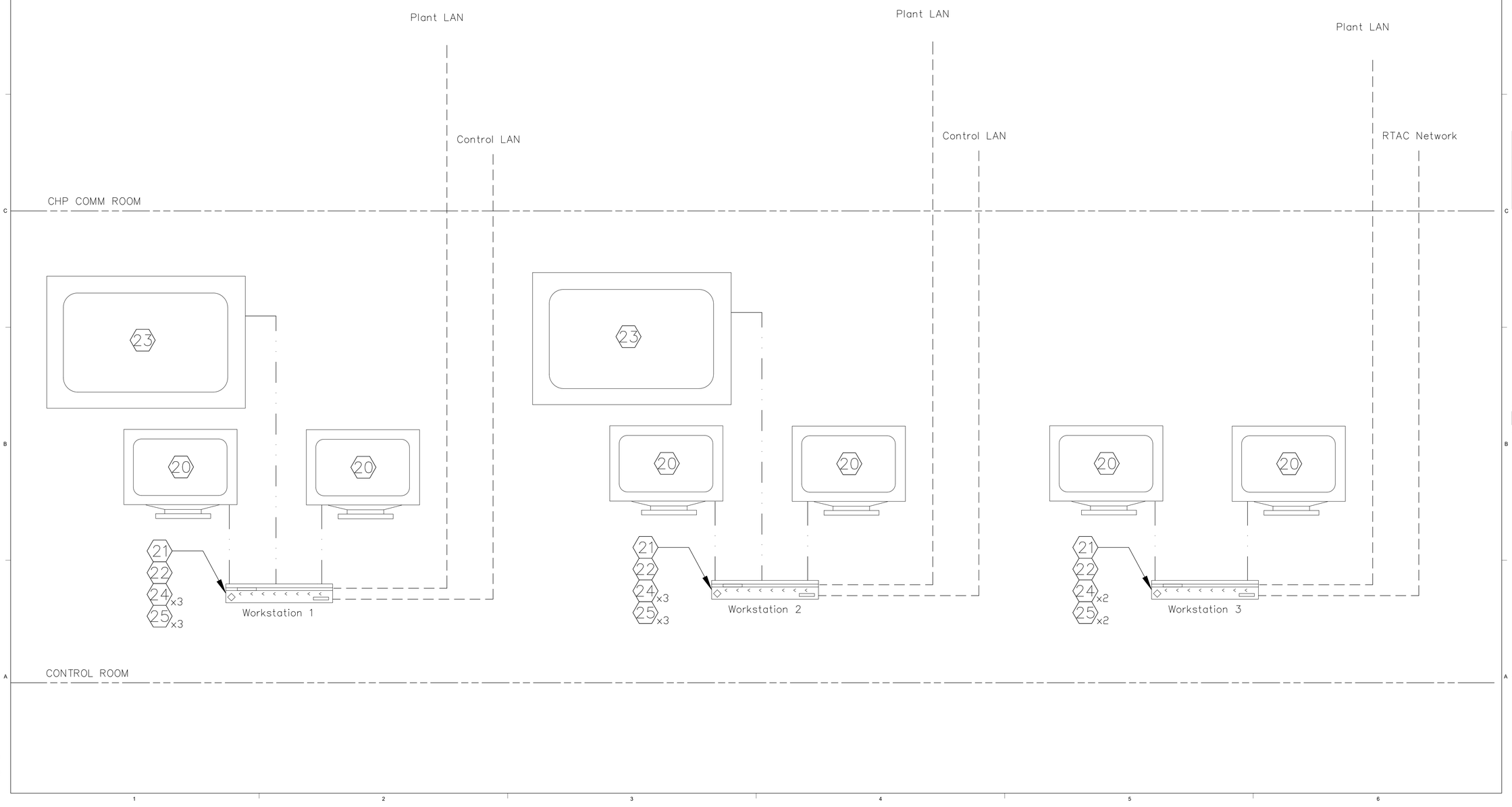
LINETYPE SCHEDULE

CAT5E / CAT6, CONTROL SYSTEM LAN, Blue

ENCLOSURE / SPACE

HDMI Cable



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PHASE 2 - IFC 2026.06.10

Sheet Title

Plant LAN

Sheet No.

IC-825004-0110

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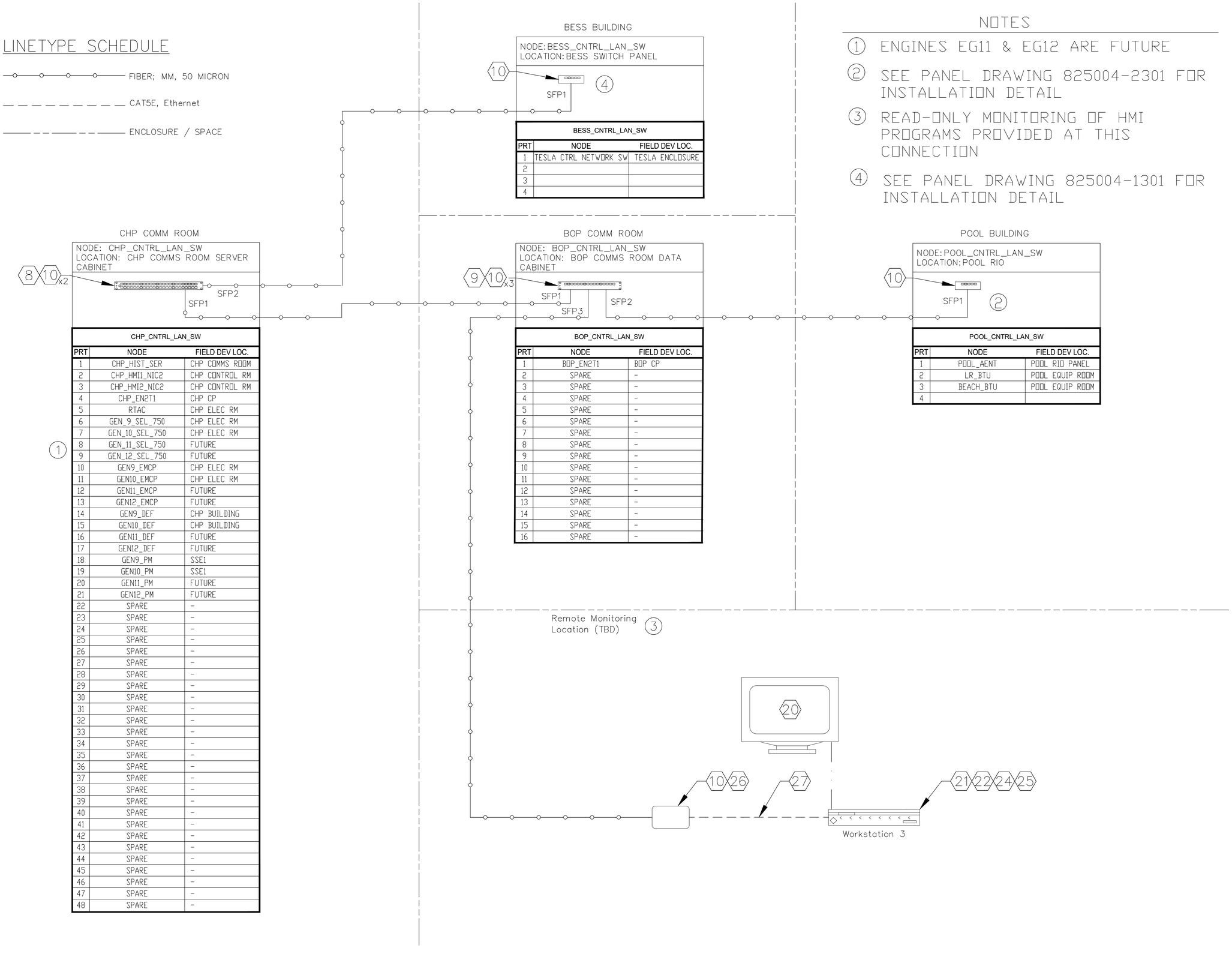
LINETYPE SCHEDULE

- FIBER; MM, 50 MICRON
- CAT5E, Ethernet
- ENCLOSURE / SPACE



BESS_CNTRL_LAN_SW		
PRT	NODE	FIELD DEV LOC.
1	TESLA CTRL NETWORK SW	TESLA ENCLOSURE
2		
3		
4		

CHP_CNTRL_LAN_SW		
PRT	NODE	FIELD DEV LOC.
1	CHP_HIST_SER	CHP COMMS ROOM
2	CHP_HMI1_NIC2	CHP CONTROL RM
3	CHP_HMI2_NIC2	CHP CONTROL RM
4	CHP_EN2T1	CHP CP
5	RTAC	CHP ELEC RM
6	GEN_9_SEL_750	CHP ELEC RM
7	GEN_10_SEL_750	CHP ELEC RM
8	GEN_11_SEL_750	FUTURE
9	GEN_12_SEL_750	FUTURE
10	GEN9_EMCP	CHP ELEC RM
11	GEN10_EMCP	CHP ELEC RM
12	GEN11_EMCP	FUTURE
13	GEN12_EMCP	FUTURE
14	GEN9_DEF	CHP BUILDING
15	GEN10_DEF	CHP BUILDING
16	GEN11_DEF	FUTURE
17	GEN12_DEF	FUTURE
18	GEN9_PM	SSE1
19	GEN10_PM	SSE1
20	GEN11_PM	FUTURE
21	GEN12_PM	FUTURE
22	SPARE	-
23	SPARE	-
24	SPARE	-
25	SPARE	-
26	SPARE	-
27	SPARE	-
28	SPARE	-
29	SPARE	-
30	SPARE	-
31	SPARE	-
32	SPARE	-
33	SPARE	-
34	SPARE	-
35	SPARE	-
36	SPARE	-
37	SPARE	-
38	SPARE	-
39	SPARE	-
40	SPARE	-
41	SPARE	-
42	SPARE	-
43	SPARE	-
44	SPARE	-
45	SPARE	-
46	SPARE	-
47	SPARE	-
48	SPARE	-

BOP_CNTRL_LAN_SW		
PRT	NODE	FIELD DEV LOC.
1	BOP_EN2T1	BOP CP
2	SPARE	-
3	SPARE	-
4	SPARE	-
5	SPARE	-
6	SPARE	-
7	SPARE	-
8	SPARE	-
9	SPARE	-
10	SPARE	-
11	SPARE	-
12	SPARE	-
13	SPARE	-
14	SPARE	-
15	SPARE	-
16	SPARE	-

POOL_CNTRL_LAN_SW		
PRT	NODE	FIELD DEV LOC.
1	POOL_AENT	POOL RIO PANEL
2	LR_BTU	POOL EQUIP ROOM
3	BEACH_BTU	POOL EQUIP ROOM
4		

NOTES

1. ENGINES EG11 & EG12 ARE FUTURE
2. SEE PANEL DRAWING 825004-2301 FOR INSTALLATION DETAIL
3. READ-ONLY MONITORING OF HMI PROGRAMS PROVIDED AT THIS CONNECTION
4. SEE PANEL DRAWING 825004-1301 FOR INSTALLATION DETAIL

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PHASE 2 - IFC 2026.06.10

Sheet Title

Control LAN

Sheet No.

IC-825004-0111

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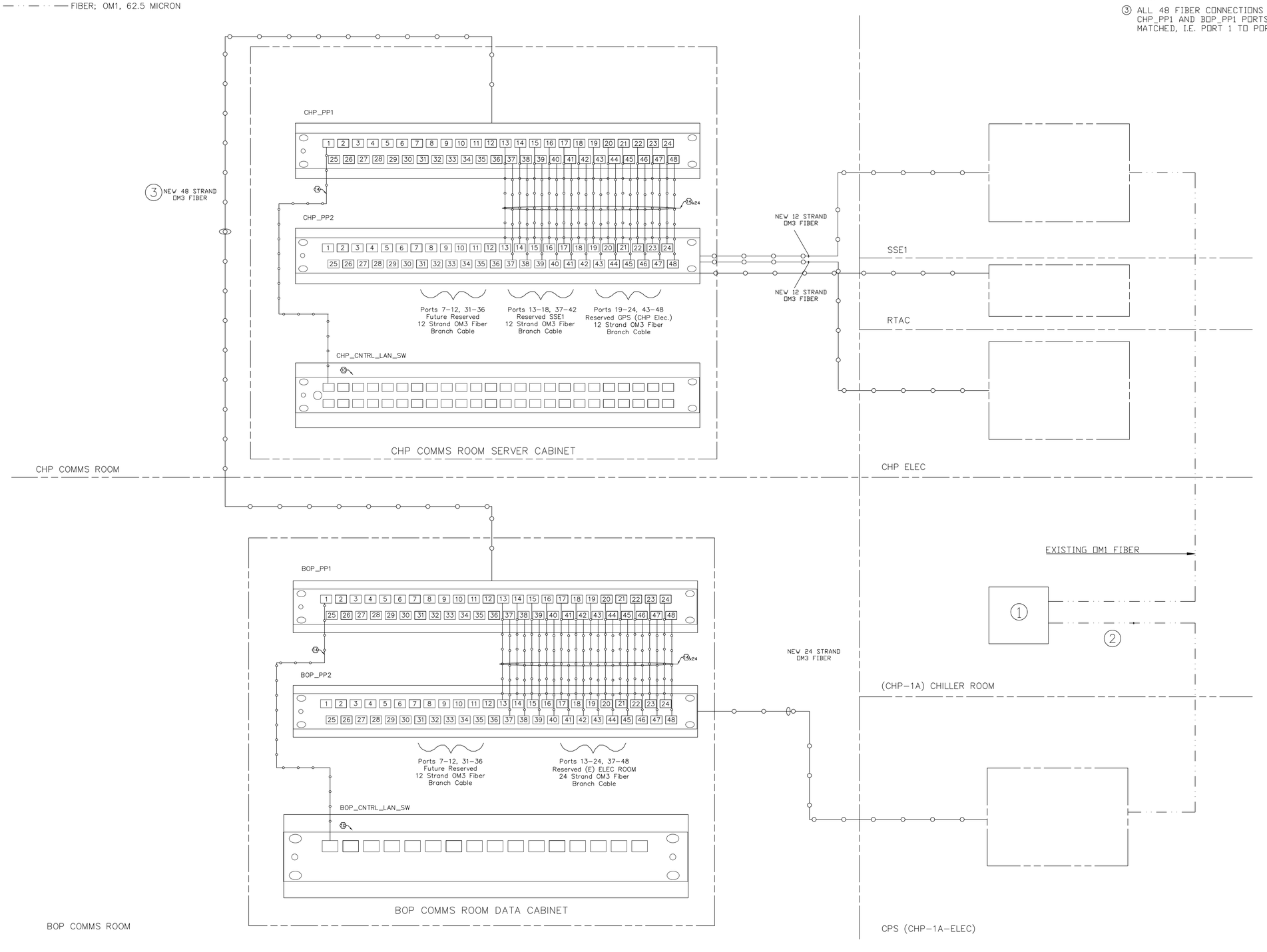
LINETYPE SCHEDULE

- FIBER; OM3, 50 MICRON
- ENCLOSURE / SPACE
- FIBER; OM1, 62.5 MICRON

NOTES

1. PATCH PANEL USES ST CONNECTORS
2. NEW TEMP FIBER EXTENDED TO (E) ENGINE ROOM FOR PHASE 1 (12 STRAND OM1)
3. ALL 48 FIBER CONNECTIONS BETWEEN CHP_PP1 AND BOP_PP1 PORTS ARE MATCHED, I.E. PORT 1 TO PORT 1.



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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

CHP to BOP Comms

Sheet No.

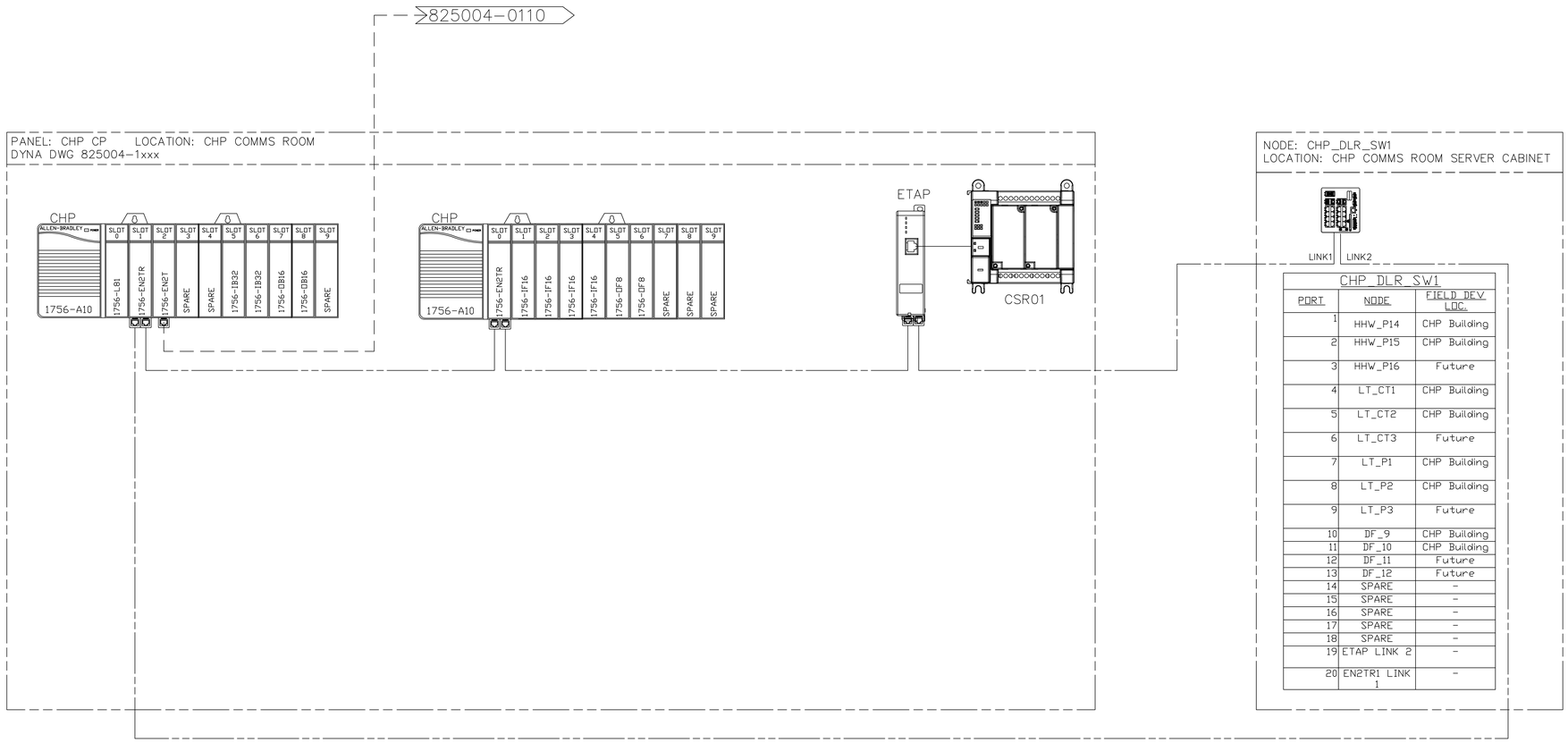
IC-825004-0112

LINETYPE SCHEDULE

CAT5E / CAT6
DLR, Yellow

ENCLOSURE / SPACE

CAT5E / CAT6
Control LAN, Blue



CHP_DLR_SW1

PORT	NODE	FIELD DEV LOC.
1	HHW_P14	CHP Building
2	HHW_P15	CHP Building
3	HHW_P16	Future
4	LT_CT1	CHP Building
5	LT_CT2	CHP Building
6	LT_CT3	Future
7	LT_P1	CHP Building
8	LT_P2	CHP Building
9	LT_P3	Future
10	DF_9	CHP Building
11	DF_10	CHP Building
12	DF_11	Future
13	DF_12	Future
14	SPARE	-
15	SPARE	-
16	SPARE	-
17	SPARE	-
18	SPARE	-
19	ETAP LINK 2	-
20	EN2TR1 LINK 1	-

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MORONGO
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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

CHP DLR

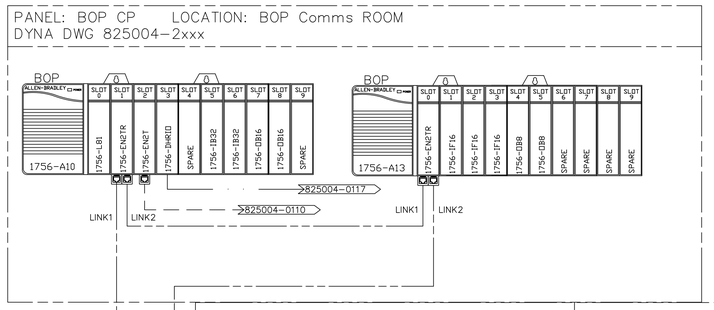
Sheet No.

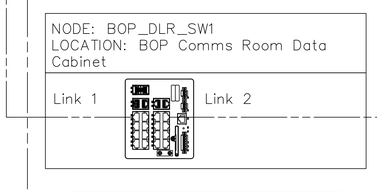
IC-825004-0113

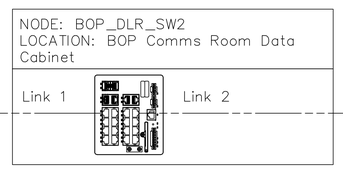
2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

LINETYPE SCHEDULE

- CAT5E / CAT6 DLR, Yellow
- RS-485 SERIAL, BELDEN 9842
- ENCLOSURE / SPACE
- CAT5E, CONTROL SYSTEM LAN, Blue
- DH+, Belden 9643, Blue

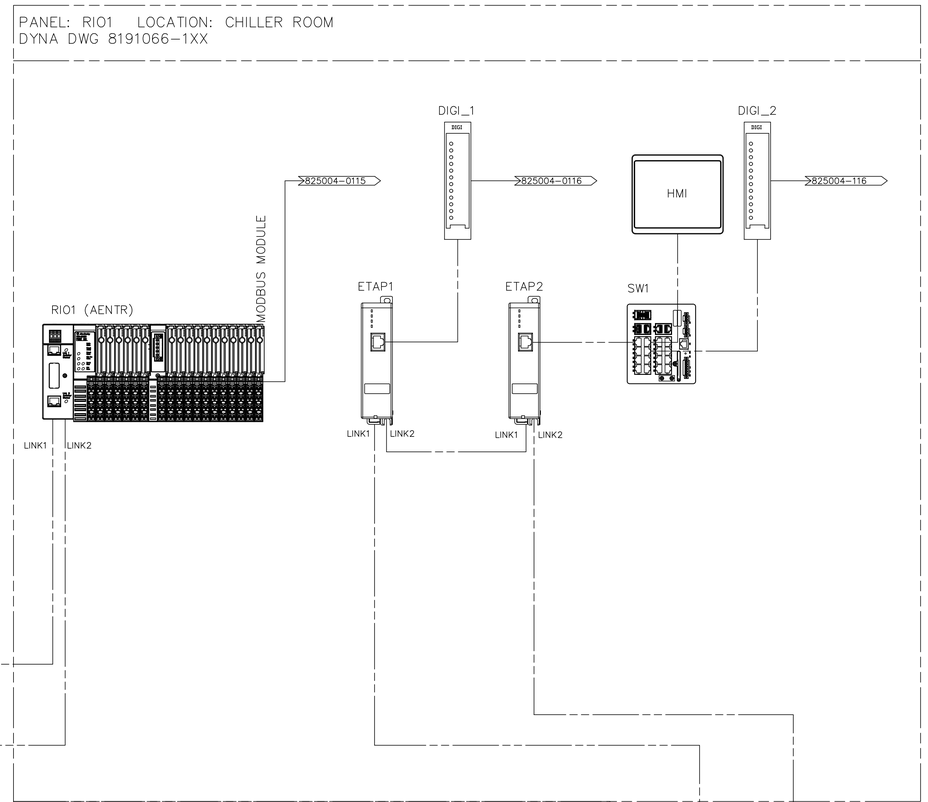


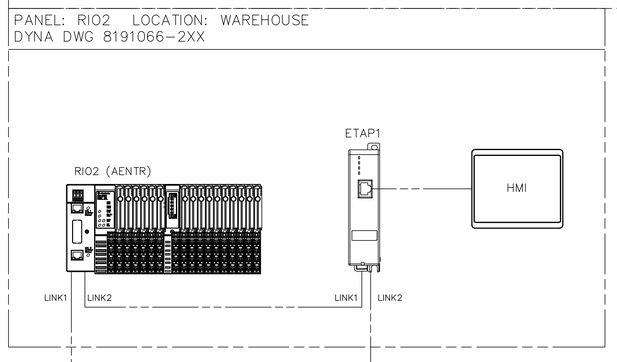




BOP_DLR_SW1		
PORT	NODE	FIELD DEV LOC.
1	CDW_P8	CHILLER ROOM
2	CDW_P10	CHILLER ROOM
3	CT_F1	CHILLER ROOM
4	CT_F3	CHILLER ROOM
5	CHW_P1	CHILLER ROOM
6	CHW_P3	CHILLER ROOM
7	CHW_P12	CHILLER ROOM
8	PW_P1	CHILLER ROOM
9	SPARE	-
10	SPARE	-
11	SPARE	-
12	SPARE	-
13	SPARE	-
14	SPARE	-
15	SPARE	-
16	SPARE	-
17	SPARE	-
18	SPARE	-
19	EN2TR2 LINK 2	-
20	BOP_DLR_SW2 P19	-

BOP_DLR_SW2		
PORT	NODE	FIELD DEV LOC.
1	CDW_P9	CHILLER ROOM
2	CDW_P11	CHILLER ROOM
3	CT_F2	CHILLER ROOM
4	CT_F4	CHILLER ROOM
5	CHW_P2	CHILLER ROOM
6	HHW_P13	CHILLER ROOM
7	HTW_BTU_1	CHILLER ROOM
8	CHW_BTU_1	CHILLER ROOM
9	SPARE	-
10	SPARE	-
11	SPARE	-
12	SPARE	-
13	SPARE	-
14	SPARE	-
15	SPARE	-
16	SPARE	-
17	SPARE	-
18	SPARE	-
19	BOP_DLR_SW1 P20	-
20	RIO1 AENTR LINK 1	-





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PHASE 2 - IFC 2026.06.10

Sheet Title

BOP DLR

Sheet No.

IC-825004-0114

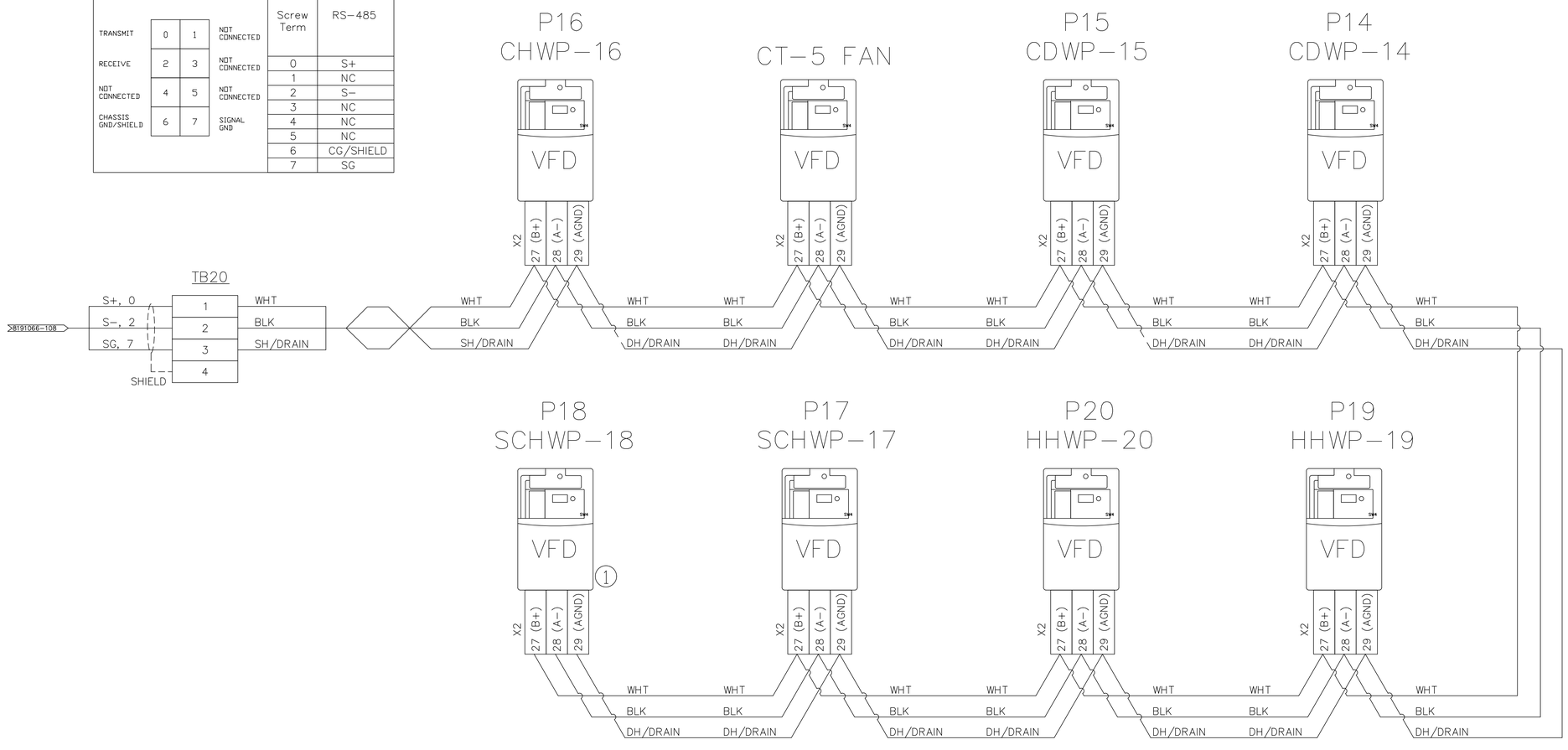
LINETYPE SCHEDULE

RS-485 SERIAL, BELDEN 9842

NOTES

1. SET DIP SWITCH (SW1) TO THE ON POSITION FOR THE INTERNAL TERMINATING RESISTOR.

PROSOFT MODULE					
Serial Terminal				Serial Terminal Connections	
				Screw Term	RS-485
TRANSMIT	0	1	NOT CONNECTED		
RECEIVE	2	3	NOT CONNECTED	0	S+
NOT CONNECTED	4	5	NOT CONNECTED	1	NC
CHASSIS GND/SHIELD	6	7	SIGNAL GND	2	S–
				3	NC
				4	NC
				5	NC
				6	CG/SHIELD
				7	SG



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Sheet Title

BOP Modbus RTU (VFDs)

Sheet No.

IC-825004-0115

2/18/2026 2:12:00 PM
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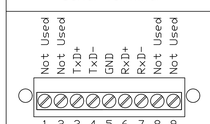
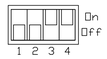
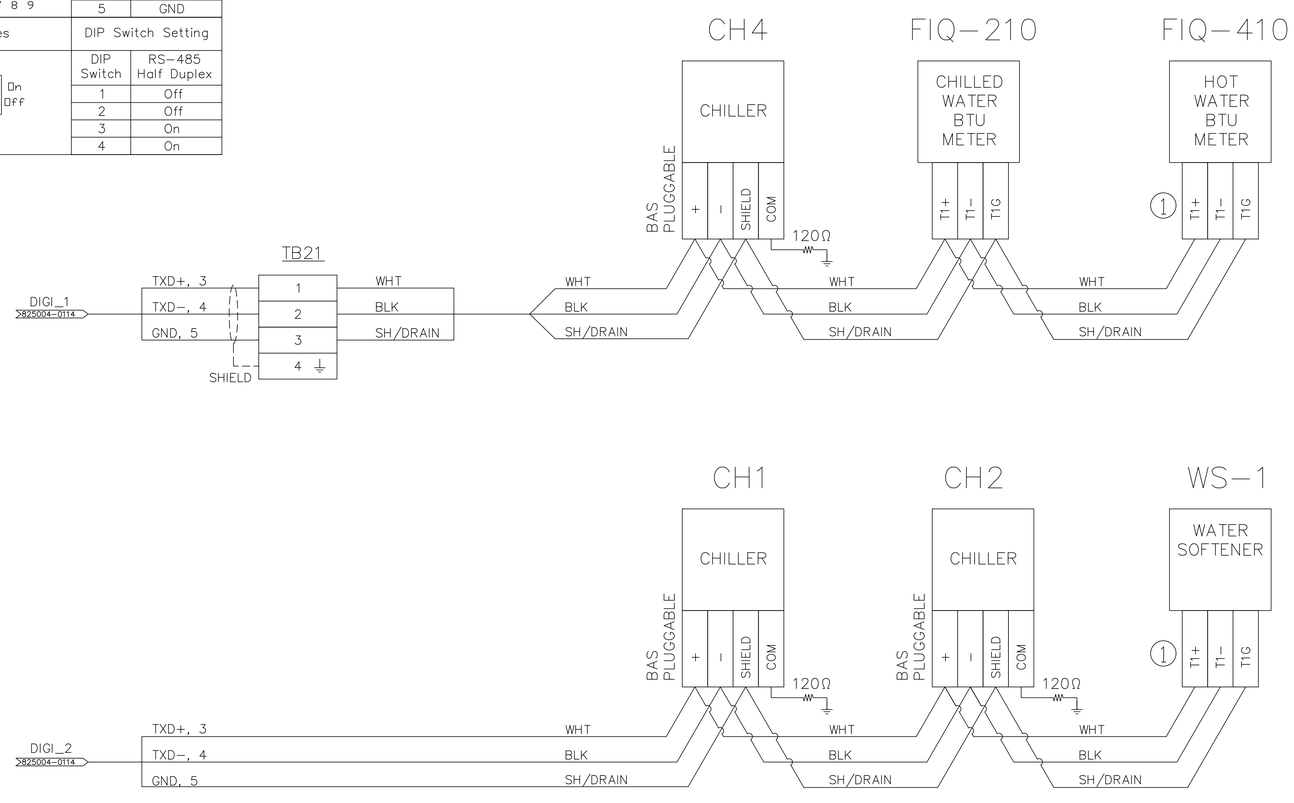
LINETYPE SCHEDULE

RS-485 SERIAL, BELDEN 9842

NOTES

1. MOVE JUMPER TO TERMINATING RESISTOR ON TOP OF BOARD.

DIGI One IAP		
Serial Terminal	Serial Terminal Connections	
	Screw Term	RS-485 Half Duplex
	3	TxD+
	4	TxD−
	5	GND
DIP Switches	DIP Switch Setting	
	DIP Switch	RS-485 Half Duplex
	1	Off
	2	Off
	3	On
	4	On



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PHASE 2 - IFC 2026.06.10

Sheet Title

BOP Modbus RTU (Chillers)

Sheet No.

IC-825004-0116

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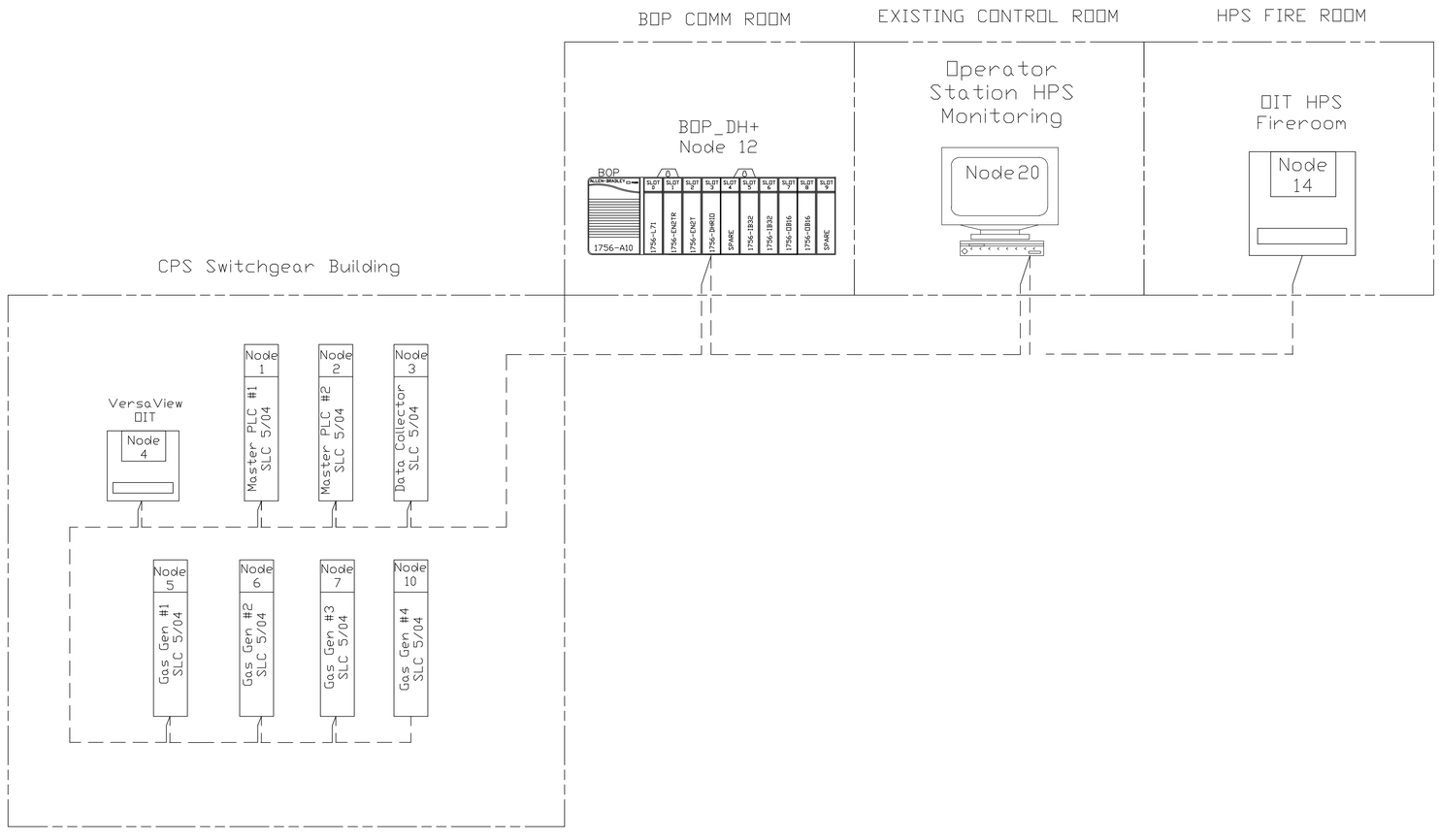
LINETYPE SCHEDULE

DH+, Belden 9643, Blue

ENCLOSURE / SPACE



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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

DH+

Sheet No.

IC-825004-0117

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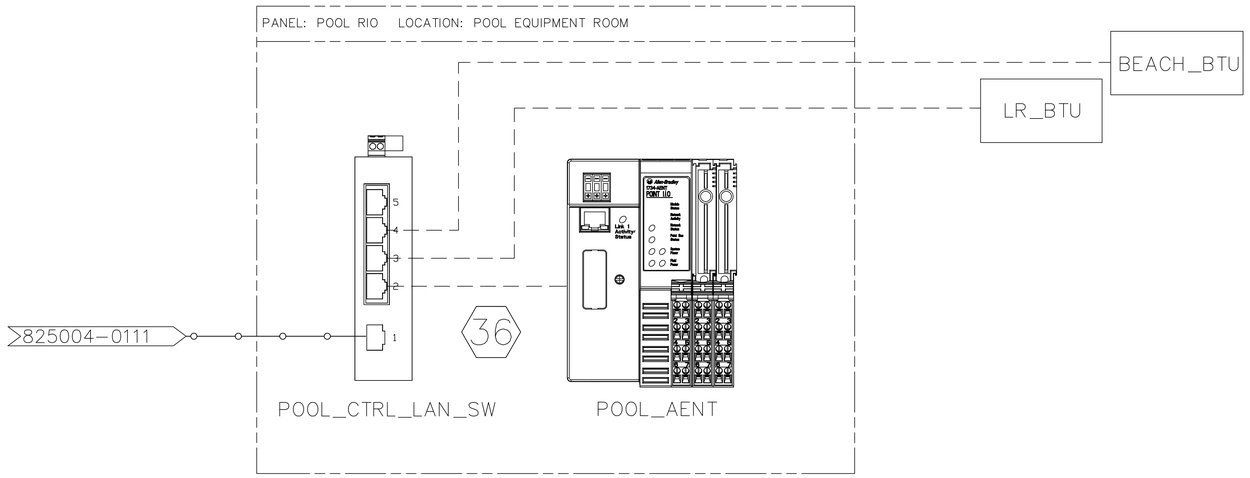
LINETYPE SCHEDULE

FIBER; MM, 50 MICRON

CAT5E, Ethernet



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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Pool RIO

Sheet No.

IC-825004-0118

2/18/2026 2:12:00 PM
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Morongo CHP Construction Integration Scope Matrix

		Electrical EOR	Electrical Integrator	P&ID EOR	BOP Controls Integrator	General Contractor	Note
1.00	**Mechanical Integration**						
1.01	CHP and BOP new equipment procurement					x	
1.02	CHP and BOP new equipment installation					x	
1.03	CHP and BOP new equipment power conduit and wire					x	
1.04	CHP and BOP new equipment control conduit and wire				x		Conduits needed for IP drawing set by GC
1.05	BOP existing CHWP-1 VFD replacement (existing 100HP ABB ACH400 replaced with new ABB ACH580 with EtherNet/IP comms)					x	
1.06	BOP existing VFD ACH550 EtherNet/IP comms module replacement				x		
1.07	CHP and BOP instrument and valve procurement (with electrical / control connection)				x		
1.08	CHP and BOP instrument and valve procurement (no electrical / control connection)					x	
1.09	CHP and BOP instrument installation (non-pressure boundary device)				x		
1.10	CHP and BOP instrument and valve installtion (pressure boundary device)					x	
1.11	CHP control room PC and monitor procurement and installation				x		
1.12	CHP and BOP comms room data cabinet procurement and installation				x		
1.13	CHP and BOP comms room data cabinet power conduit and wire					x	
1.14	CHP and BOP fiber conduit installation between multiple buildings					x	
1.15	CHP and BOP fiber installation between multiple buildings				x		
1.16	CHP and BOP control panel fabrication				x		
1.17	CHP and BOP control panel hardware factory acceptance testing				x		
1.18	CHP and BOP control panel installation				x		
1.19	CHP and BOP control panel power conduit and wire installation					x	
1.20	CHP and BOP control conduit and wire installation (signal and communications)				x		
1.21	CHP and BOP PLC and HMI development				x		
1.22	CHP and BOP software licenses for FTView clients, historian, and reporting				x		
1.23	CHP and BOP software factory acceptance testing					x	
1.24	CHP and BOP equipment startup				x		
1.25	CHP and BOP commissioning				x		
1.26	Site startup and comissioning (ie overall project)					x	
1.27	CHP and BOP SAT (Site Acceptance Test)					x	
1.28	CHP and BOP equipment training				x		
1.29	CHP and BOP control system training						
1.30	CHP and BOP P&IDs			x			
1.31	CHP and BOP Sequence of Opperatinos			x			
2.00	**Electrical Integration**						
2.01	CHP new 12kV switchgear procurement					x	
2.02	CHP new 12kV switchgear installation					x	
2.03	CHP new 12kV power conduit and wire					x	
2.04	CHP new 12kV control Cable 24DC and under				x		
2.05	CHP and BOP Comms room calbe tray procure and install					x	
2.06	Generation Resource Management SOO	X					
2.07	Existing CHP Switchgear - Replace DSLCs on Diesel Generators with EasyGen Controlls (Supply and install)		x				
2.08	Existing CHP Switchgear - Replace 300G relays on Diesel Generators with 700G relays (Supply and install)		x				
2.09	Existing CHP Switchgear - Replace SR735 relays on feeder breakers with 751 relays (Supply and install)		x				
2.10	Existing CHP Switchgear - Supply and install Axion I/O		x				
2.11	Existing SSE1 Switchgear - Add EasyGen controller to Main Breaker (S1) and Diesel Generator (Supply and install)		x				
2.12	Existing SSE1 Switchgear - Supply and install Axion I/O		x				
2.13	Supply RTAC and ethernet switches for RTAC Rack (To be installed and wired by Dyna)		x				
2.14	Supply Rack (RTAC Cabinet) and power supply for RTAC and associated equipment.				x		
2.15	Wire all equipment in RTAC Cabinet				x		
2.16	Provide Micro Grid Control Architecture (Comm Block) and its pointlist		x				
2.17	Provide Functional Design Specfication include sequence of control details for Micro Grid Controller.		x				
2.18	Based on approved Control Architecture in FDS. Program communications settings in ethernet switches, relays, RTAC, EasyGen controllers associated with PMS.		x				
2.19	Program Relays and EasyGen controllers for PMS operation				x		
2.20	Program and provide the CHP controller, along with its control point list and drawings, to coordinate with the Microgrid Controller.				x		
2.21	Integrate PV & BESS Controller to RTAC as needed.		x				
2.22	Program Relay Protection settings		x				
2.23	Supply and install control room HMI for PMS system				x		
2.24	Develop HMI screens for PMS and EasyGen HMIs		x				
2.25	Efficiency and thermal load following calculations				x		
2.26	Short Circuit, Coordination and Arc Flash Studies for new equipment		x				
2.27	Conduit and wiring outside of switchgear equipment				x	x	

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PHASE 2 - IFC 2026.05.27

Sheet Title

Construction Integration Scope Matrix

Sheet No.

IC-825004-0200

BILL OF MATERIALS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
1	1	ea.	-	Enclosure, Type 4, 72"Hx72"Wx18"D, Painted Steel, Free Standing, Double Door, Three Point Latch	Hammond	HN4FS727218
2	1	ea.	-	Enclosure Back Plane, 72"Hx72"W (60.0"Hx68.0"W), White	Hammond	72ZYFW
3		N/A	-	Not Used	N/A	N/A
4	1	ea.	-	LED Light, 24VDC, Motion Sensor	Rittal	SZ2500.220
5	1	ea.	-	LED Light Mounting Kit Magnet	Rittal	SZ2500.490
6	1	ea.	-	Led Light Cable with Connector	Rittal	SZ2500.410
7	1	ea.	-	Wire Duct, 2" x 4" Grey Wire way, 6 feet	T&B	TY2X4NPG6
8	1	ea.	-	Wire Duct Cover, 2" Grey Duct Cover, 6 feet	T&B	TY2CPG6
9	4	ea.	-	Wire Duct, 3" x 4" Grey Wire way, 6 feet	T&B	TY3X4NPG6
10	4	ea.	-	Wire Duct Cover, 3" Grey Duct Cover, 6 feet	T&B	TY3CPG6
11	2	ea.	-	Wire Duct, 4" x 4" Grey Wire way, 6 feet	T&B	TY4X4NPG6
12	2	ea.	-	Wire Duct Cover, 4" Grey Duct Cover, 6 feet	T&B	TY4CPG6
13	1	ea.	-	Wire Duct Divider 3" High, Solid, Grey, 6 feet	T&B	TY3DSPG
14	4	ea.	-	Din Rail, Raised, 1 meter	Allen Bradley	1492-DR6
15	3	ea.	-	VAC Fused Disconnect Isolation Block, Neon Indicator	Allen Bradley	1492-H4
16	20	ea.	-	VDC Fused Disconnect Isolation Block, LED Indicator	Allen Bradley	1492-H5
17	3	ea.	-	Fused Disconnect Isolation Block, End Barrier for H4-H7	Allen Bradley	1492-N37
18	43	ea.	-	Terminal Block, End Anchor	Allen Bradley	1492-EAJ35
19		N/A	-	Not Used	N/A	N/A
20		N/A	-	Not Used	N/A	N/A
21		N/A	-	Not Used	N/A	N/A
22	268	ea.	-	Terminal Block, Two Level, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3
23	9	ea.	-	Terminal Block, Two Level With Commoning Bar, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3C
24	18	ea.	-	Terminal Block, Two Level Grounding with Commoning Bar, #26 - #12 AWG Wire Range	Allen Bradley	1492-JDG3C
25	15	ea.	-	Terminal Block, End Barrier For JD3	Allen Bradley	1492-EBJD3
26	3	ea.	-	Terminal Block, Two Level With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JD4C
27	2	ea.	-	Terminal Block, Two Level Grounding With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JDG4C
28	2	ea.	-	Terminal Block, End Barrier For JD4	Allen Bradley	1492-EBJD4
29	1	ea.	CB1	Circuit Breaker, Branch Circuit Rated, 1 Pole, 20A	Weidmuller	9926251020
30	2	ea.	CB2-CB3	Circuit Breaker, Branch Circuit Rated, 1 Pole, 3A	Weidmuller	9926251003
31	2	ea.	CB4-CB5	Circuit Breaker, Branch Circuit Rated, 1 Pole, 2A.	Weidmuller	9926251002
32	1	ea.	CB10	Circuit Breaker, Branch Circuit Rated, 1 Pole, 20A (DC)	Weidmuller	9926251920
33	9	ea.	CB20-CB28	Circuit Breaker, Branch Circuit Rated, 1 Pole, 1A (DC)	Weidmuller	9926251901
34	1	ea.	PS1	Power Supply, 20A @ 24VDC, 95.6% Efficiency (Puls)	Puls	CP20.241
35	1	ea.	PM1	Protection Module, 24VDC, Four Class 2 Outputs	Phoenix Contact	2906031
36	1	ea.	-	Convenience Outlet, Duplex Receptacle, 125VAC, 15A	Weidmuller	6720005421
37	1	ea.	-	440C Guardmaster ENET Ethernet/IP Plug-in Module	Allen Bradley	440C-ENET
38	24	ea.	CR0-CR15, CR24-CR31	Relay, Terminal Block Style, SPDT, Screw Connection, 120VAC/110VDC Coil (Phoenix Contact)	Phoenix Contact	2966197
39	8	ea.	CR16-CR23	Relay, Coil, DPDT, Square Base, 24VDC Coil, 15A Contacts, Inductive Rating 60A Make, 6A Break (Allen Bradley)	Allen Bradley	700-HB32Z24
40	8	ea.	-	Relay, Base, DPDT, Square Base - International (10 per order)	Allen Bradley	700-HN153
41	1	ea.	-	Ethernet Cable, Category 5e, RJ-45 Male to RJ-45, Male, 5 ft, Yellow	Belkin	A3L791-05-YLW-S
42	1	ea.	CHP-CSR01	Guardmaster Configurable Safety Relay, 24VDC, 22 On-Board I/O points (6 configurable)	Allen Bradley	440C-CR30-22BBB
43	2	ea.	SR01, SR02	Guardmaster,SI,Single Input,1 Dual Channel Universal Input, 1 N.C. Solid State Auxiliary Output	Allen Bradley	440R-S12R2
44	1	ea.	PLC	ControlLogix, Controller, 5580 Controller With 3 Mbytes Memory	Allen Bradley	1756-L81E
45	2	ea.	-	ControlLogix, Chassis, 10 Slot	Allen Bradley	1756-A10
46	1	ea.	ETAP1	Ethernet/IP Tap, 3 RJ45 Ports, 24VDC, 3W	Allen Bradley	1783-ETAP
47	1	ea.	EN2T	ControlLogix, Network Module, Ethernet/IP Communication Bridge Module	Allen Bradley	1756-EN2T
48	2	ea.	EN2TR	ControlLogix, Network Module, 2-port EtherNet/IP, with embedded switch technology, Firmware Revision 4.2	Allen Bradley	1756-EN2TR
49	2	ea.	PLC-PS1, PLC-PS2	ControlLogix, Power Supply, 120/240 VAC Input, 13 Amp @ 5.1VDC	Allen Bradley	1756-PA75/B
50	2	ea.	DI05,DI06	ControlLogix, IO Module, DC (10...30V) Sinking Input Module, 32 Point	Allen Bradley	1756-IB32
51	2	ea.	DO07, DO08	ControlLogix, IO Module, DC (10...30V) Electronically-Fused, Sourcing Output Module, 16 Point	Allen Bradley	1756-OB16E
52	2	ea.	-	Ethernet Cable, Category 5e, RJ-45 Male to RJ-45, Male, 3 ft, Yellow	Belkin	A3L791-03-YLW-S
53	5	ea.	AI01-AI05	ControlLogix, IO Module, Voltage/Current Analog Input Module, 16 Channel	Allen Bradley	1756-IF16
54	2	ea.	AO06-AO07	ControlLogix, IO Module, Voltage/Current Analog Output Module, 8 Channel	Allen Bradley	1756-OF8
55		ea.		Not Used	N/A	N/A
56	4	ea.	-	ControlLogix, IO Module, Slot Filler	Allen Bradley	1756-N2
57	4	ea.	-	ControlLogix, Removable Terminal Block, 20 Position NEMA Screw Clamp Block	Allen Bradley	1756-TBNH
58	6	ea.	-	ControlLogix, Removable Terminal Block, 36 Pin Screw Clamp Block With Standard Housing	Allen Bradley	1756-TBCH
59	1	ea.	-	Fuse, 6.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL6
60	2	ea.	-	Fuse, 1.50 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1-1/2
61	3	ea.	-	Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1
62	1	ea.	-	Fuse, 1.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1
63	15	ea.	-	Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
64	1	ea.	-	Fuse, 2.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GDL2

LOOSE-SHIPPED BILL OF MATERIALS

ITEM	QTY	UNITS		DESCRIPTION	MFG	P/N
1A	5	ea.	-	Fuse, 6.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL6
2A	5	ea.	-	Fuse, 1.50 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1-1/2
3A	5	ea.	-	Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1
4A	5	ea.	-	Fuse, 1.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1
5A	5	ea.	-	Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
6A	5	ea.	-	Fuse, 2.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GDL2

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MORONGO CASINO RESORT SPA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Bill of Material

Sheet No.

IC-825004-1001

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

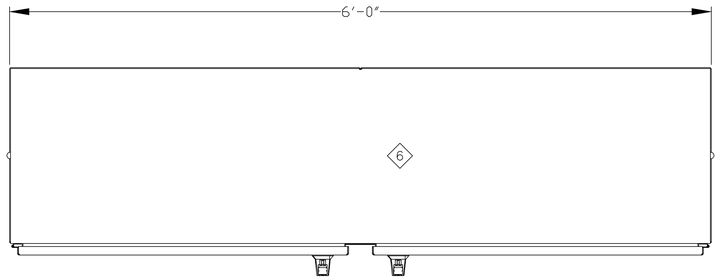
NOTES

① 4 5 6 Installed on interior roof of cabinet

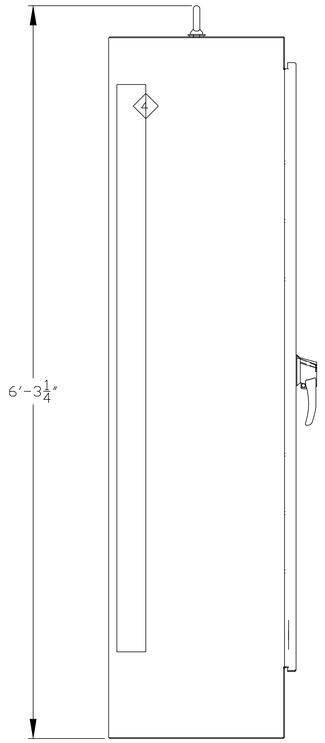
LINETYPE

CLASS 1 WIRING

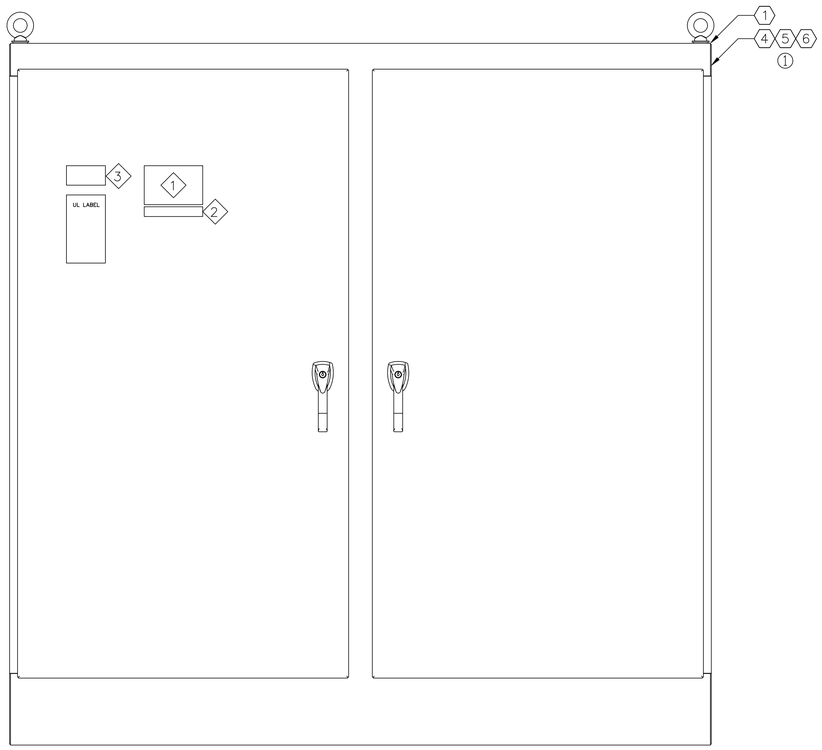
CLASS 2 WIRING



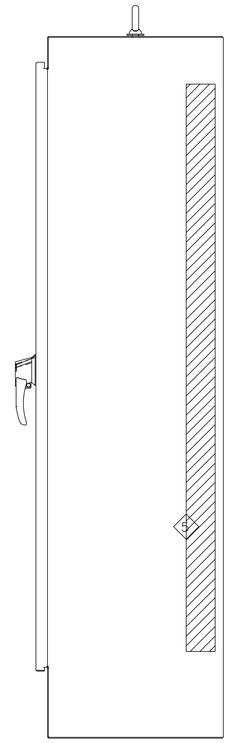
TOP VIEW



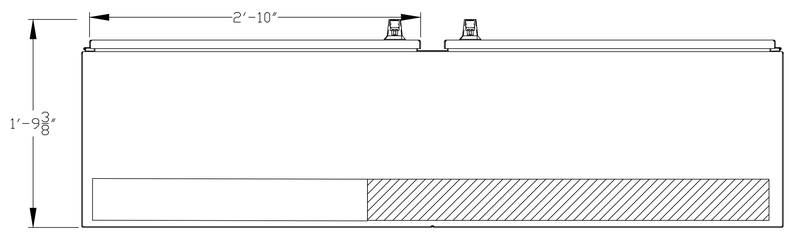
LEFT SIDE VIEW



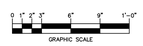
FRONT VIEW



RIGHT SIDE VIEW



BOTTOM VIEW



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MORONGO CASINO RESORT SPA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

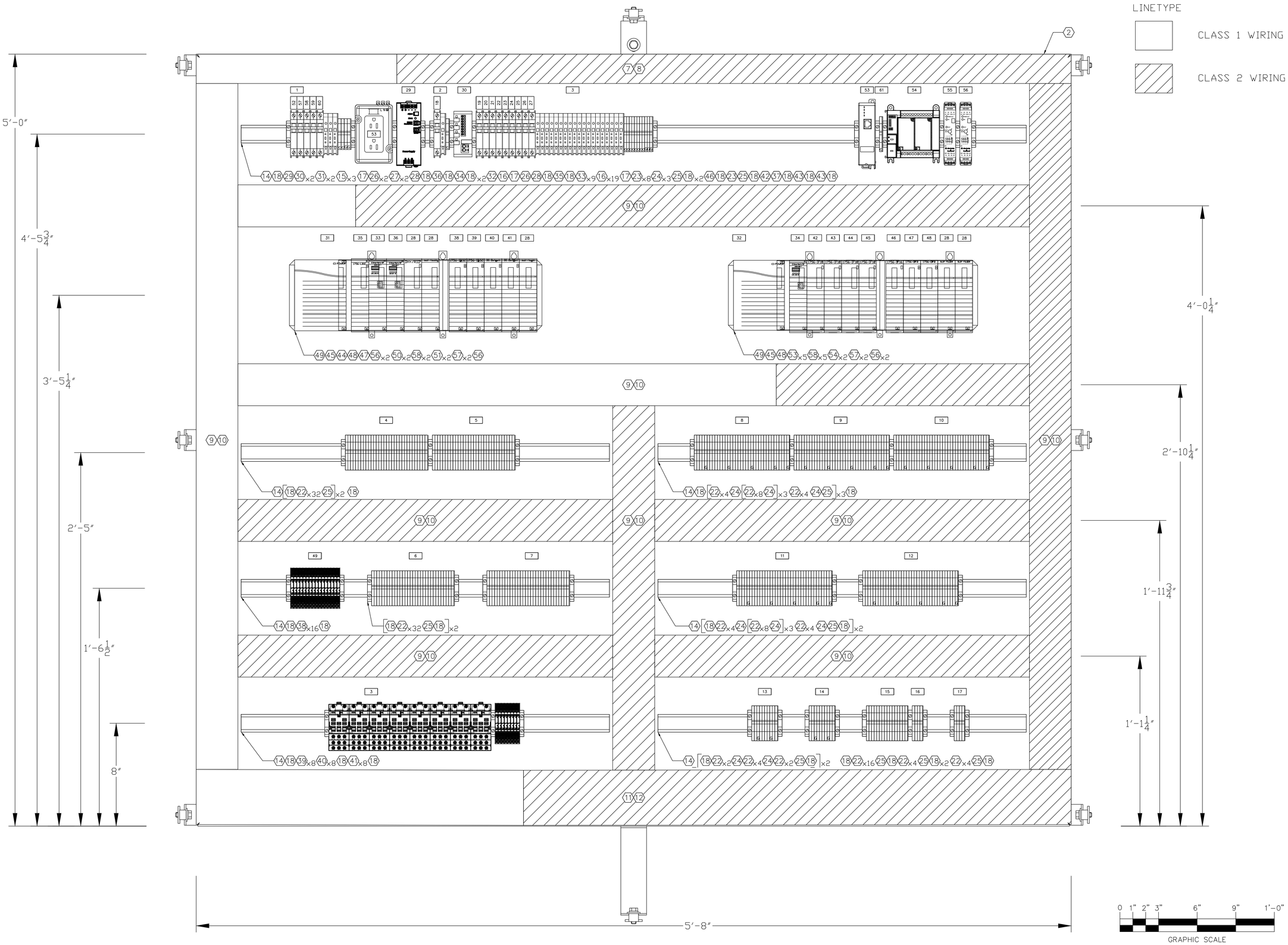
Panel Dimensions Top & Bottom

Sheet No.

IC-825004-1002

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Back Plane layout

Sheet No.

IC-825004-1003

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

PANEL BILL OF MATERIALS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	ea.	-	Hinge Cover Medium Quarter Turn Latch Type 3R, 18x18x10, Gray, Mild Steel	Hammond	C3R181810HCR
2	1	ea.	-	Panel for Type 3R 4 4X 12 13 Enclosure, fits 16x12, White, Steel	Hammond	18P1515
3	1	ea.	-	Wire Duct, 1.5" x 4" Grey Wire way, Narrow Slot, 6 feet	T&B	TY1.5X4NPG6
4	1	ea.	-	Wire Duct Cover, 1.5" Grey Duct Cover, 6 feet	T&B	TY1.5CPG6
5	1	ea.	-	120W 24V DIN Mount Power Supply, 5A	Sola	SDN 5-24-100C
6	1	ea.	-	Din Rail, 1m	Allen Bradley	199-DR1
7	1	ea.	CB1	Circuit Breaker, Branch Circuit Rated, 1 Pole, 15A	Weidmuller	9926251015
8	1	ea.	-	VAC Fused Disconnect Isolation Block, Neon Indicator	Allen Bradley	1492-H4
9	2	ea.	-	Terminal Block, Two Level With Commoning Bar, 20A Max, #22-#10 AWG	Allen Bradley	1492-JD3C
10	1	ea.	-	Terminal Block, Two Level Grounding with Commoning Bar, #22-#12 AWG	Allen Bradley	1492-JDG3C
11	2	ea.	-	Terminal Block, End Barrier For JD3	Allen Bradley	1492-EBJD3
12	1	ea.		Terminal Block, End Anchor	Allen Bradley	1492-EAJ35
13	1	N/A	SW1	NAT Router, 24VDC	Allen Bradley	1783-NATR
14	3	ea.		VDC Fused Disconnect Isolation Block, LED Indicator	Allen Bradley	1492-H5
15	1	ea.	FPP	Fiber Patch Panel,LC,6 Fiber, Duplex Adapter, Multimode (OM3/OM4), Pigtail, Din Rail Mount	RLH Industries	PWSN-A-66-65-1-D
16	1	ea.	-	Fiber Optic Duplex Patch Cords, LC Connector, OM3,1 meter	RLH Industries	RLH-JDR2MX-LDLD-01M
17	1	ea.	-	CAT5e Patch Cable, 1 foot, Blue	Belkin	A3L791-01-BLU-S
18	1	ea.	CB2	Circuit Breaker, Branch Circuit Rated, 1 Pole, 3A	Weidmuller	9926251003
19	1	ea.	-	Fuse, 4.00 Amp, Time-Delay, Supplementary	Mersen	GDL4
20	2	ea.	-	Fuse, 2.00 Amp, Time-Delay, Supplementary	Mersen	GDL2
21	1	ea.	FBR Converter	SFP to R45 Ethernet Media Converter, 24VDC	Moxa	IMC-21GA

LOOSE-SHIPPED BILL OF MATERIALS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
1A	5	ea.	-	Fuse, 4.00 Amp, Time-Delay, Supplementary	Mersen	GDL4
2A	5	ea.	-	Fuse, 2.00 Amp, Time-Delay, Supplementary	Mersen	GDL2

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

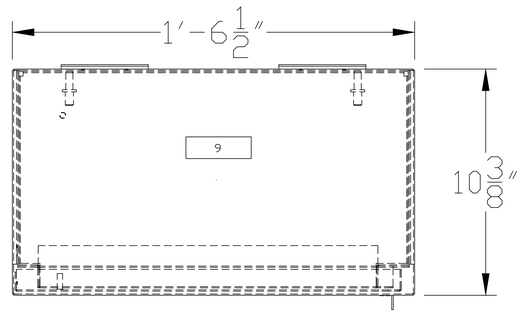
Panel Bill of Material

Sheet No.

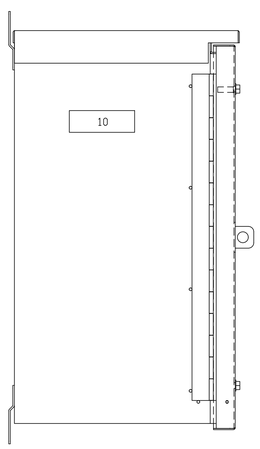
IC-825004-1301

NOTES

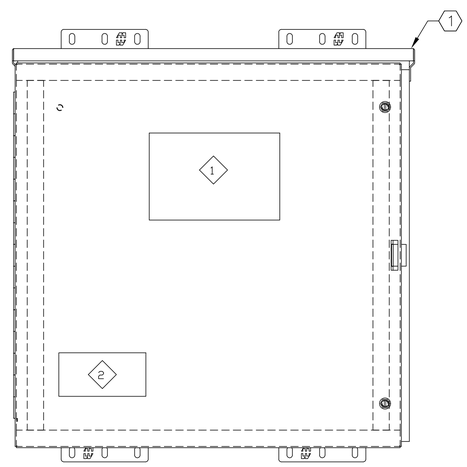
1. LABEL ANY UNMARKED ENCLOSURE GROUND LUGS WITH STICKER 1S.



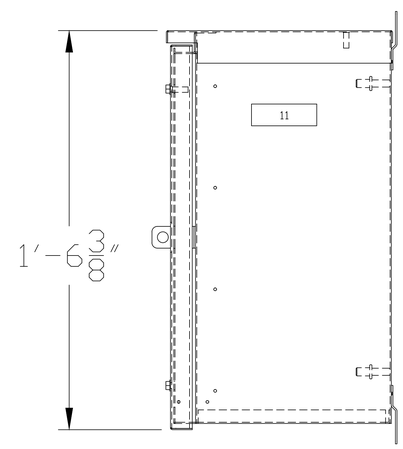
TOP VIEW



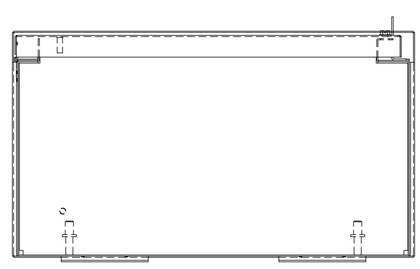
SIDE VIEW



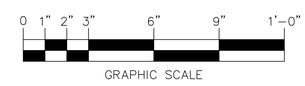
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



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MORONGO CASINO RESORT SPA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Dimensions Top & Bottom

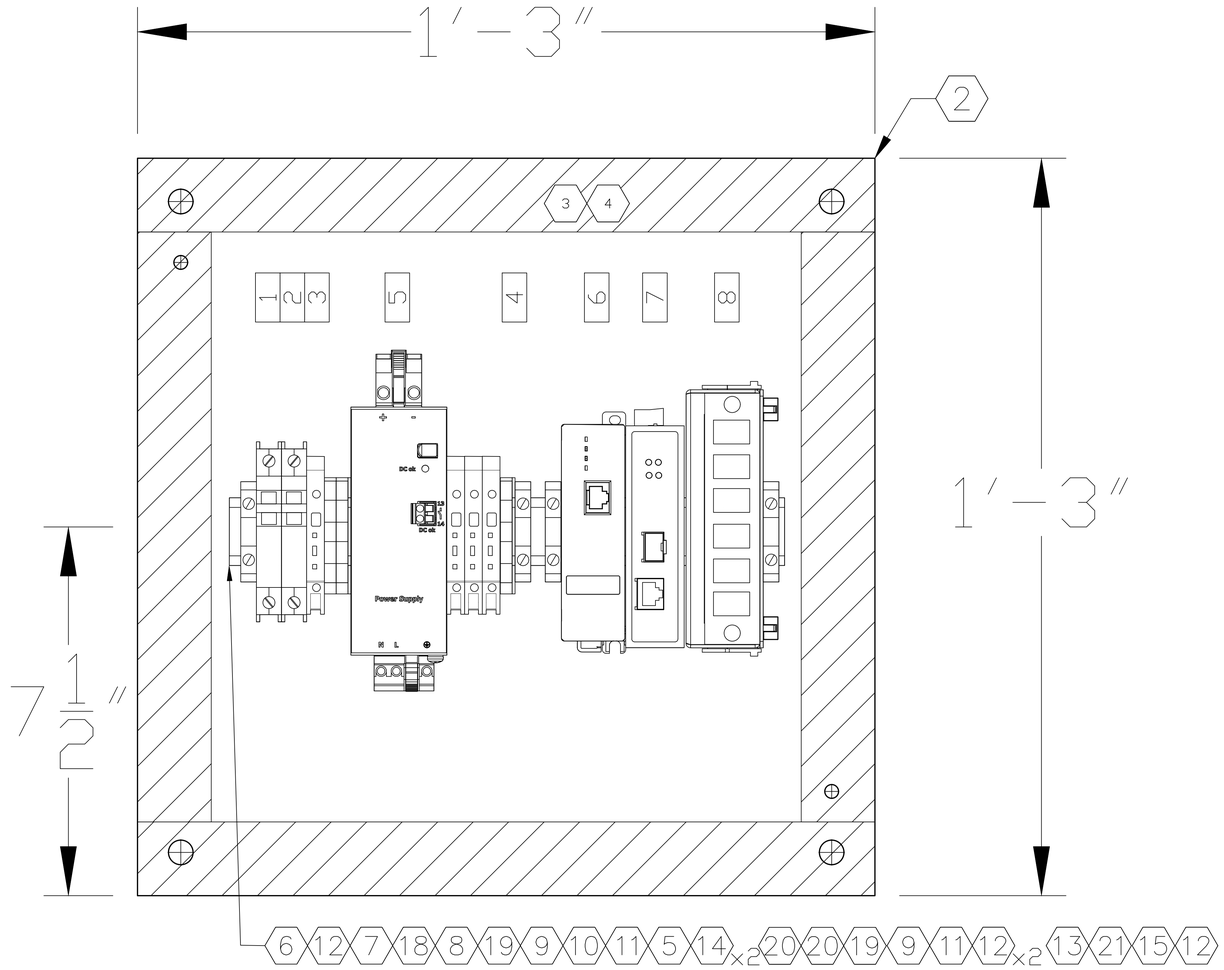
Sheet No.

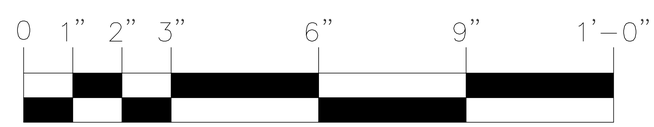
IC-825004-1302

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

LINETYPE SCHEDULE

CLASS 1 FIELD WIRING





GRAPHIC SCALE

2/18/2026 2:12:00 PM
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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Back Plane Layout

Sheet No.

IC-825004-1303

ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

2/18/2026 2:12:00 PM

BILL OF MATERIALS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
1	1	ea.	-	Enclosure, Type 4, 72"Hx72"Wx18"D, Painted Steel, Free Standing, Double Door, Three Point Latch	Hammond	HN4FS727218
2	1	ea.	-	Enclosure Back Plane, 72"Hx72"W (60.0"Hx68.0"W), White	Hammond	72ZYFW
3		N/A	-	Not Used	N/A	N/A
4	1	ea.	-	LED Light, 24VDC, Motion Sensor	Rittal	SZ2500.220
5	1	ea.	-	LED Light Mounting Kit Magnet	Rittal	SZ2500.490
6	1	ea.	-	Led Light Cable with Connector	Rittal	SZ2500.410
7	1	ea.	-	Wire Duct, 2" x 4" Grey Wire way, 6 feet	T&B	TY2X4NPG6
8	1	ea.	-	Wire Duct Cover, 2" Grey Duct Cover, 6 feet	T&B	TY2CPG6
9	4	ea.	-	Wire Duct, 3" x 4" Grey Wire way, 6 feet	T&B	TY3X4NPG6
10	4	ea.	-	Wire Duct Cover, 3" Grey Duct Cover, 6 feet	T&B	TY3CPG6
11	2	ea.	-	Wire Duct, 4" x 4" Grey Wire way, 6 feet	T&B	TY4X4NPG6
12	2	ea.	-	Wire Duct Cover, 4" Grey Duct Cover, 6 feet	T&B	TY4CPG6
13	1	ea.	-	Wire Duct Divider 3" High, Solid, Grey, 6 feet	T&B	TY3DSPG
14	4	ea.	-	Din Rail, Raised, 1 meter	Allen Bradley	1492-DR6
15	3	ea.	-	VAC Fused Disconnect Isolation Block, Neon Indicator	Allen Bradley	1492-H4
16	20	ea.	-	VDC Fused Disconnect Isolation Block, LED Indicator	Allen Bradley	1492-H5
17	3	ea.	-	Fused Disconnect Isolation Block, End Barrier for H4-H7	Allen Bradley	1492-N37
18	30	ea.	-	Terminal Block, End Anchor	Allen Bradley	1492-EAJ35
19		N/A	-	Not Used	N/A	N/A
20		N/A	-	Not Used	N/A	N/A
21		N/A	-	Not Used	N/A	N/A
22	176	ea.	-	Terminal Block, Two Level, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3
23	8	ea.	-	Terminal Block, Two Level With Commoning Bar, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3C
24	29	ea.	-	Terminal Block, Two Level Grounding with Commoning Bar, #26 - #12 AWG Wire Range	Allen Bradley	1492-JDG3C
25	15	ea.	-	Terminal Block, End Barrier For JD3	Allen Bradley	1492-EBJD3
26	3	ea.	-	Terminal Block, Two Level With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JD4C
27	2	ea.	-	Terminal Block, Two Level Grounding With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JDG4C
28	2	ea.	-	Terminal Block, End Barrier For JD4	Allen Bradley	1492-EBJD4
29	1	ea.	CB1	Circuit Breaker, Branch Circuit Rated, 1 Pole, 20A	Weidmuller	9926251020
30	2	ea.	CB2-CB3	Circuit Breaker, Branch Circuit Rated, 1 Pole, 3A	Weidmuller	9926251003
31	2	ea.	CB4-CB5	Circuit Breaker, Branch Circuit Rated, 1 Pole, 2A.	Weidmuller	9926251002
32	1	ea.	CB10	Circuit Breaker, Branch Circuit Rated, 1 Pole, 20A (DC)	Weidmuller	9926251920
33	9	ea.	CB20-CB28	Circuit Breaker, Branch Circuit Rated, 1 Pole, 1A (DC)	Weidmuller	9926251901
34	1	ea.	PS1	Power Supply, 20A @ 24VDC, 95.6% Efficiency (Puls)	Puls	CP20.241
35	1	ea.	PM1	Protection Module, 24VDC, Four Class 2 Outputs	Phoenix Contact	2906031
36	1	ea.	-	Convenience Outlet, Duplex Receptacle, 125VAC, 15A	Weidmuller	6720005421
37		N/A	-	Not Used	N/A	N/A
38	24	ea.	CR0-CR15, CR24-CR31	Relay, Terminal Block Style, SPDT, Screw Connection, 120VAC/110VDC Coil (Phoenix Contact)	Phoenix Contact	2966197
39	8	ea.	CR16-CR23	Relay, Coil, DPDT, Square Base, 24VDC Coil, 15A Contacts, Inductive Rating 60A Make, 6A Break (Allen Bradley)	Allen Bradley	700-HB32Z24
40	8	ea.	-	Relay, Base, DPDT, Square Base - International (10 per order)	Allen Bradley	700-HN153
41	1	ea.	-	Ethernet Cable, Category 5e, RJ-45 Male to RJ-45, Male, 5 ft, Yellow	Belkin	A3L791-05-YLW-S
42		N/A	-	Not Used	N/A	N/A
43		N/A	-	Not Used	N/A	N/A
44	1	ea.	PLC	ControlLogix, Controller, 5580 Controller With 3 Mbytes Memory	Allen Bradley	1756-L81E
45	2	ea.	-	ControlLogix, Chassis, 10 Slot	Allen Bradley	1756-A10
46		N/A	-	Not Used	N/A	N/A
47	1	ea.	EN2T	ControlLogix, Network Module, Ethernet/IP Communication Bridge Module	Allen Bradley	1756-EN2T
48	2	ea.	EN2TR	ControlLogix, Network Module, 2-port EtherNet/IP, with embedded switch technology, Firmware Revision 4.2	Allen Bradley	1756-EN2TR
49	2	ea.	PLC-PS1	ControlLogix, Power Supply, 120/240 VAC Input, 13 Amp @ 5.1VDC	Allen Bradley	1756-PA75/B
50	2	ea.	DI05-DI06	ControlLogix, IO Module, DC (10...30V) Sinking Input Module, 32 Point	Allen Bradley	1756-IB32
51	2	ea.	DO07-DO08	ControlLogix, IO Module, DC (10...30V) Electronically-Fused, Sourcing Output Module, 16 Point	Allen Bradley	1756-OB16E
52		N/A		Not Used	N/A	N/A
53	3	ea.	AI01-AI03	ControlLogix, IO Module, Voltage/Current Analog Input Module, 16 Channel	Allen Bradley	1756-IF16
54	2	ea.	AO04-AO05	ControlLogix, IO Module, Voltage/Current Analog Output Module, 8 Channel	Allen Bradley	1756-OF8
55	1	ea.	DHRIO	ControlLogix, Data Highway Plus (DH+) Module	Allen Bradley	1756-DHRIO
56	6	ea.	-	ControlLogix, IO Module, Slot Filler	Allen Bradley	1756-N2
57	4	ea.	-	ControlLogix, Removable Terminal Block, 20 Position NEMA Screw Clamp Block	Allen Bradley	1756-TBNH
58	5	ea.	-	ControlLogix, Removable Terminal Block, 36 Pin Screw Clamp Block With Standard Housing	Allen Bradley	1756-TBCH
59	1	ea.	-	Fuse, 6.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL6
60	2	ea.	-	Fuse, 1.50 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1-1/2
61	2	ea.	-	Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1
62	2	ea.	-	Fuse, 1.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1
63	15	ea.	-	Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
64	1	ea.	-	Fuse, 2.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GDL2

LOOSE-SHIPPED BILL OF MATERIALS

ITEM	QTY	UNITS		DESCRIPTION	MFG	P/N
1A	5	ea.	-	Fuse, 6.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL6
2A	5	ea.	-	Fuse, 1.50 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1-1/2
3A	5	ea.	-	Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1
4A	5	ea.	-	Fuse, 1.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1
5A	5	ea.	-	Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
6A	5	ea.	-	Fuse, 2.00 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GDL2

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Bill of Material

Sheet No.

IC-825004-2001

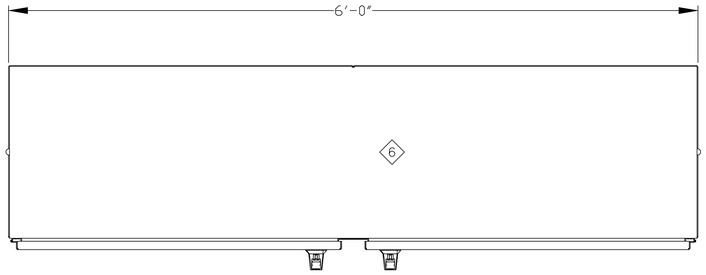
NOTES

① ④⑤⑥ Installed on interior roof of cabinet

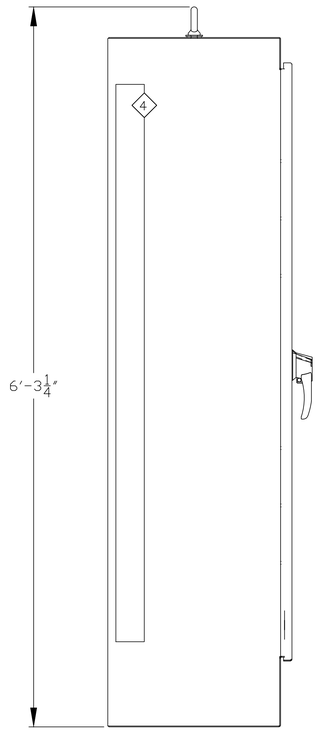
LINETYPE

CLASS 1 WIRING

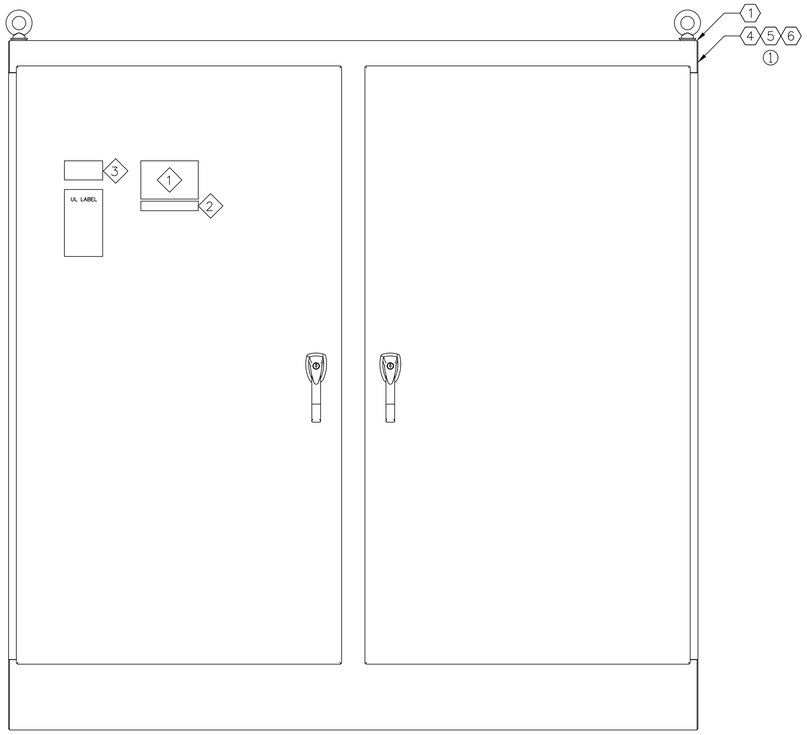
CLASS 2 WIRING



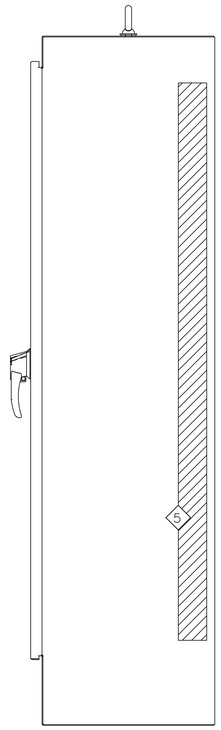
TOP VIEW



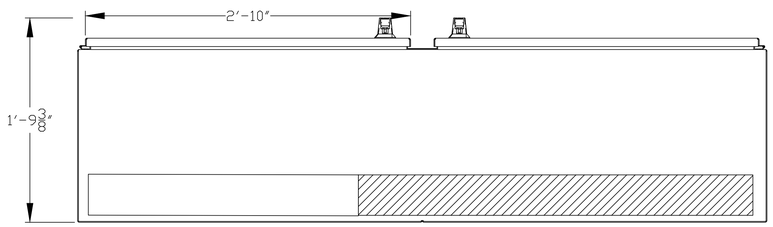
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



BOTTOM VIEW

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Dimensions Top & Bottom

Sheet No.

IC-825004-2002

2/18/2026 2:12:00 PM
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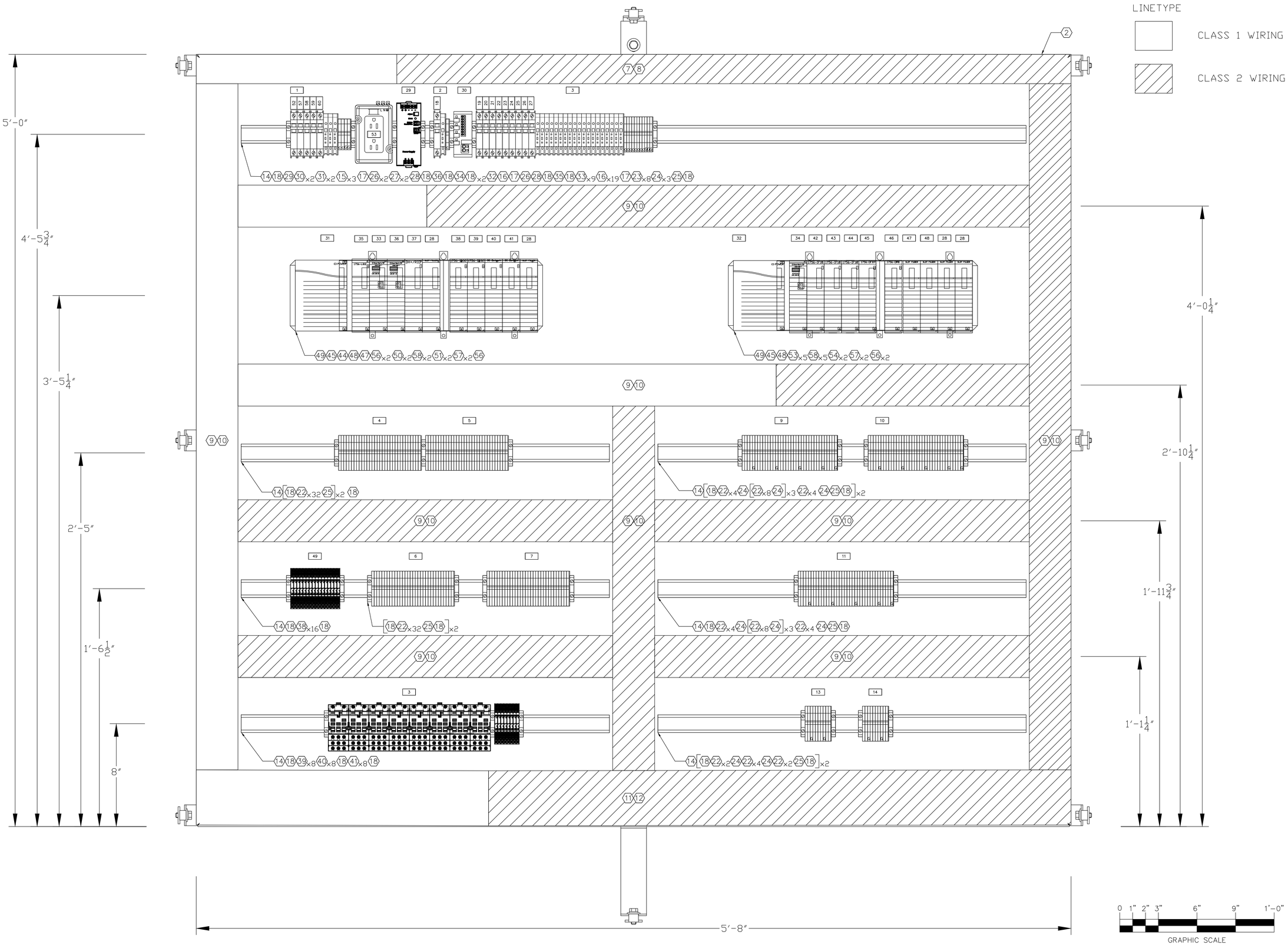

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MORONGO CASINO RESORT SPA

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Back Plane Layout

Sheet No.

IC-825004-2003

2/18/2026 2:12:00 PM
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BILL OF MATERIALS

ITEM	QTY	UNITS	LABEL	DESCRIPTION	MFG	P/N
1	1	ea.	-	Enclosure, Type 4/12, 36"Hx30"Wx12"D, Single Door, Wall Mount, Mild Steel, Grey	Hoffmann	CSD363012
2	1	ea.	-	Enclosure Back Plane, 36"H x 30"W (33"Hx27"W), White	Hoffmann	A36P30
3	1	ea.	-	Enclosure, Mounting Feet (Weigmann)	Wiegmann	N412MFK
4	1	ea.	-	Convenience Outlet, Duplex Receptacle, 125VAC, 15A	Weidmuller	6720005421
5	1	ea.	-	Wire Duct, 2" x 4" Grey Wire way, 6 feet	T&B	TY2X4NPG6
6	1	ea.	-	Wire Duct Cover, 2" Grey Duct Cover, 6 feet	T&B	TY2CPG6
7	2	ea.	-	Din Rail, Raised, 1 meter	Allen Bradley	1492-DR6
8	1	ea.	CB1	Circuit Breaker, Branch Circuit Rated, 1 Pole, 20A	Weidmuller	9926251020
9	3	ea.	-	VAC Fused Disconnect Isolation Block, Neon Indicator	Allen Bradley	1492-H4
10	10	ea.	-	VDC Fused Disconnect Isolation Block, LED Indicator	Allen Bradley	1492-H5
11	4	ea.	-	Fused Disconnect Isolation Block, End Barrier for H4-H7	Allen Bradley	1492-N37
12	17	ea.	-	Terminal Block, End Anchor	Allen Bradley	1492-EAJ35
13	0	N/A	-	Not Used	N/A	N/A
14	2	ea.	CB2, CB3	Circuit Breaker, Branch Circuit Rated, 1 Pole, 3A	Weidmuller	9926251003
15	1	ea.	CB10	Circuit Breaker, Branch Circuit Rated, 1 Pole, 10A (DC)	Weidmuller	9926251910
16	28	ea.	-	Terminal Block, Two Level, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3
17	3	ea.	-	Terminal Block, Two Level With Commoning Bar, 20A Max, #26 - #12 AWG Wire Range	Allen Bradley	1492-JD3C
18	3	ea.	-	Terminal Block, Two Level Grounding with Commoning Bar, #26 - #12 AWG Wire Range	Allen Bradley	1492-JDG3C
19	5	ea.	-	Terminal Block, End Barrier For JD3	Allen Bradley	1492-EBJD3
20	3	ea.	-	Terminal Block, Two Level With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JD4C
21	2	ea.	-	Terminal Block, Two Level Grounding With Commoning Bar, 35A Max, #26 - #10 AWG Wire Range	Allen Bradley	1492-JDG4C
22	2	ea.	-	Terminal Block, End Barrier For JD4	Allen Bradley	1492-EBJD4
23	1	ea.	PS1	Power Supply, 10A @ 24V DC, 90% Efficiency (Sola)	Sola HD	SDN 10-24-100C
24	1	ea.	PM1	Protection Module, 24V, 4 Class 2 Outputs	Puls	PISA11-402
25	1	ea.	FBR1	Slimeline Nano Fiber Patch Panel	RLH	PWSN-A-66-65-1-D
26	1	ea.	SWITCH	Stratix 2100 Unmanaged switch, 4 copper 10/100 ports, 1 SFP, 24VDC	Allen Bradley	1783-USP1S4T
27	0	ea.	-	Not Used	N/A	N/A
28	0	N/A	-	Not Used	N/A	N/A
29	1	ea.	AENT	Point I/O, Ethernet Port I/O Adapter Module	Allen Bradley	1734-AENT
30	1	ea.	DI01	Point I/O, IO Module, DC (10…28.8V) Sinking Input Module, 8 Channel	Allen Bradley	1734-IB8
31	1	ea.	AI02	Point I/O, IO Module, 24VDC, Single-Ended Input Module (0,4-20mA), 8 Channel	Allen Bradley	1734-IE8C
32	3	ea.	-	Point I/O, IO Module Base, 8 position screw RTB	Allen Bradley	1734-TB
33	1	ea.	AO03	Point I/O, IO Module, 24VDC, Single-Ended Output Module (0,4-20mA), 4 Channel	Allen Bradley	1734-OE4C
34	0	N/A	-	Not Used	N/A	N/A
35	0	N/A	-	Not Used	N/A	N/A
36	1	ea.		CAT5e Patch Cable, 1 foot, Blue	Belkin	A3L791-01-BLU-S
37	1	ea.	-	Fuse, 4.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL4
38	8	ea.	-	Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
39	1	ea.	-	Fuse, 2.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL2
40	1	ea.	-	Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1

LOOSE-SHIPPED BILL OF MATERIALS

ITEM	QTY	UNITS		DESCRIPTION	MFG	P/N
1A	5	ea.		Fuse, 4.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL4
2A	5	ea.		Fuse, 0.50 Amp, Fast Acting, Supplementary (Mersen)	Mersen	GGC1/2
3A	5	ea.		Fuse, 2.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL2
4A	5	ea.		Fuse, 1.00 Amp, Time-Delay, Supplementary (Mersen)	Mersen	GDL1

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Bill of Material

Sheet No.

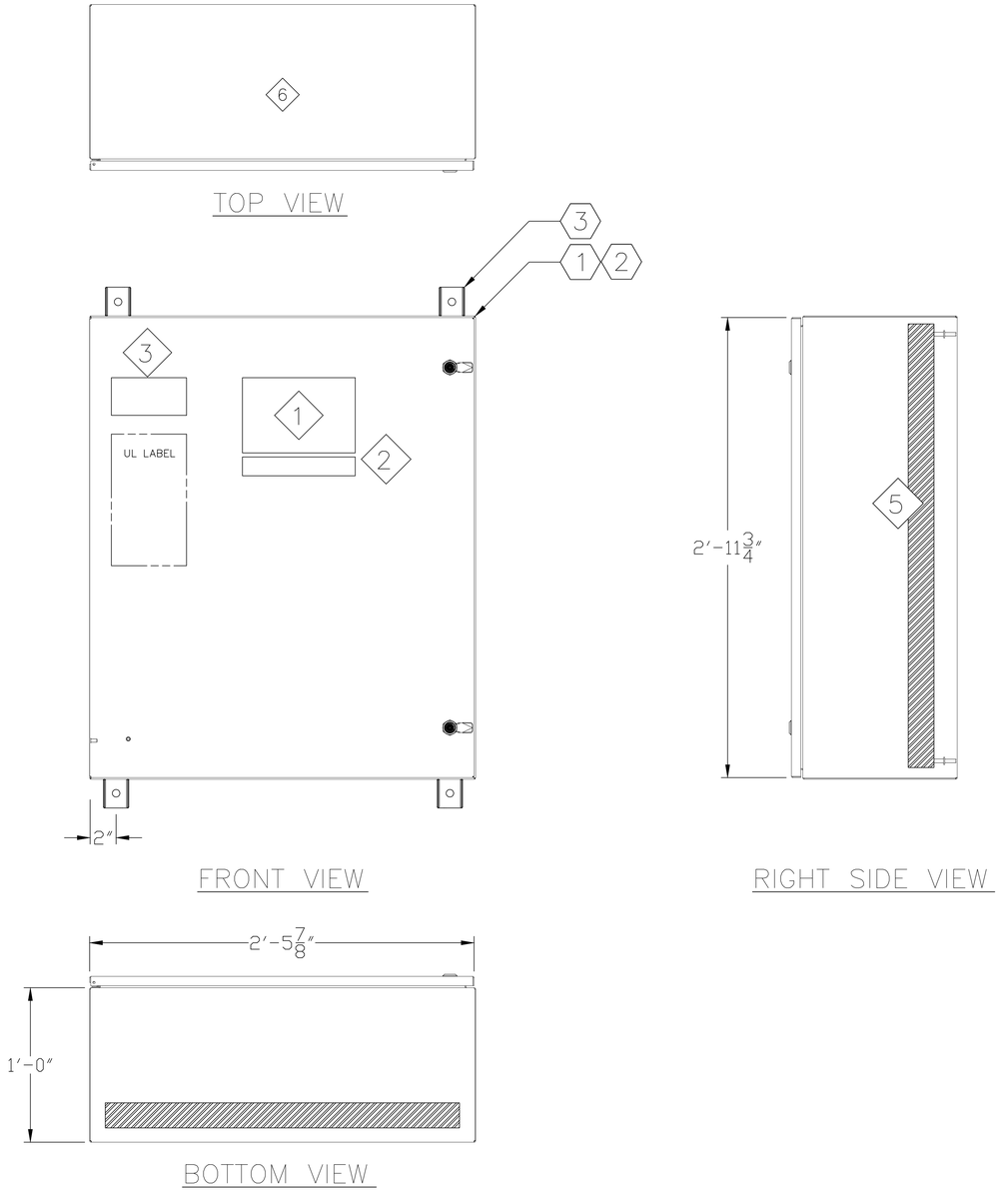
IC-825004-2301

2/18/2026 2:12:00 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

LINETYPE

CLASS 1 WIRING

CLASS 2 WIRING



0 1″ 2″ 3″ 6″ 9″ 1′-0″
GRAPHIC SCALE

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Dimensions Top & Bottom

Sheet No.

IC-825004-2302

2/18/2026 2:12:00 PM
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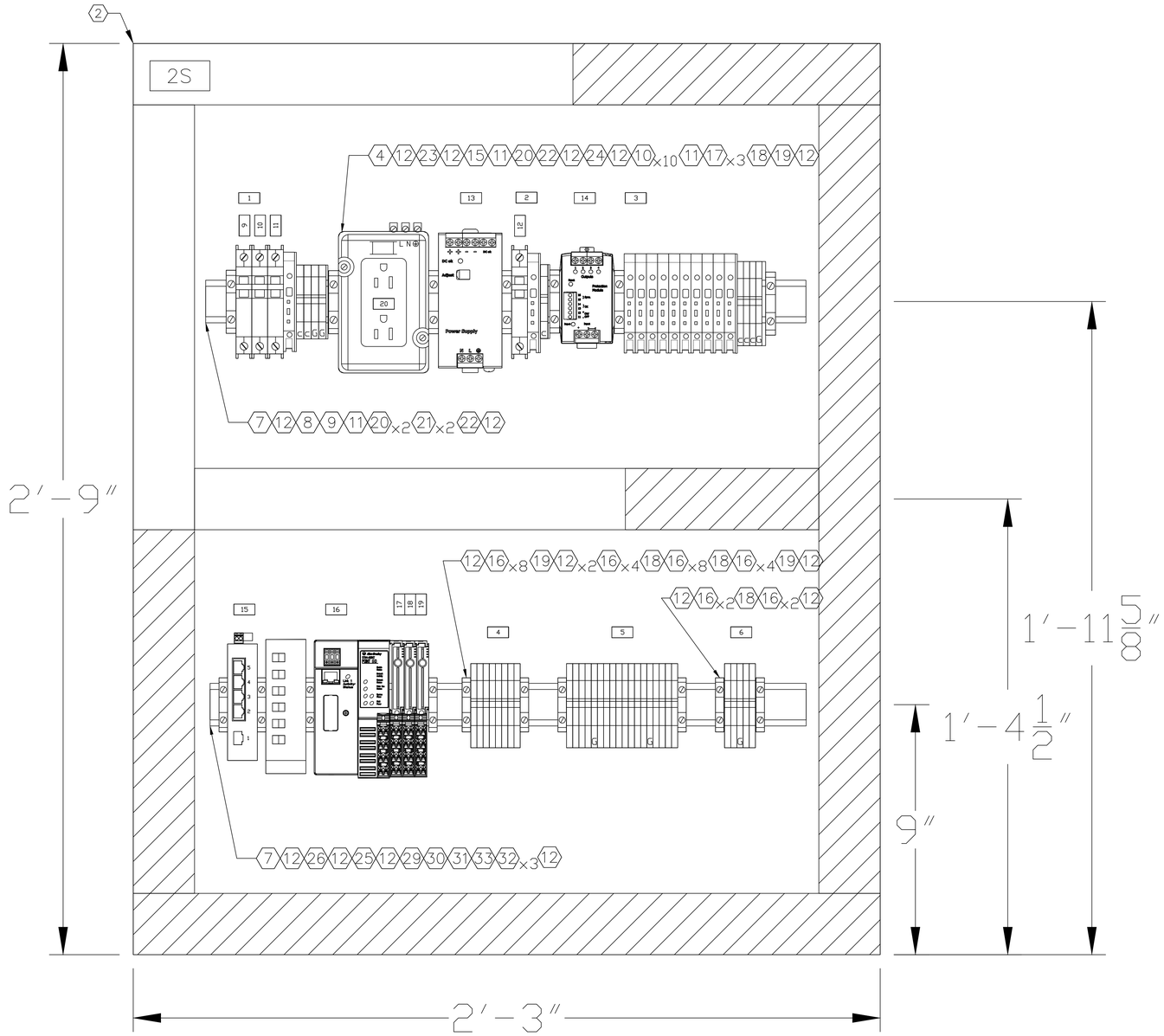
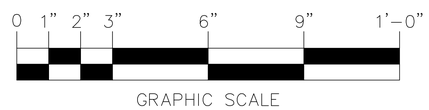
THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF

LINETYPE

CLASS 1 WIRING

CLASS 2 WIRING





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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title

Panel Back Plane Layout

Sheet No.

IC-825004-2303

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DESCRIBED IN THESE SPECIFICATIONS AND AS SHOWN ON THE PROJECT DRAWINGS. THE ELECTRICAL INSTALLATION SHALL INCLUDE ALL REQUIRED CONDUIT, CABLE, GROUNDING AND MISCELLANEOUS EQUIPMENT TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING, UNIFORM BUILDING CODE, NATIONAL ELECTRIC CODE (NEC), NATIONAL ELECTRIC SAFETY CODE (NESC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), STATE FIRE MARSHAL AND APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
2. THE CONTRACTOR, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY CONDITIONS, INCLUDING BUT NOT LIMITED TO, THE SAFETY OF ALL PERSONNEL AND PROPERTY DURING PERFORMANCE OF THIS CONTRACT.
3. ELECTRICAL SERVICE SHALL BE MAINTAINED TO ALL LOADS AT ALL TIMES EXCEPT DURING PROPERLY COORDINATED SWITCHOVERS/CUTOVERS. CONTRACTOR SHALL HAVE SUITABLE ON-SITE MOBILE BACK-UP POWER DURING INSTALLATION OF NEW EQUIPMENT. COORDINATE WITH UTILITY AND OWNER FOR ALL REQUIRED ELECTRICAL SHUTDOWNS.
4. THE CONTRACTOR SHALL SCHEDULE, DIRECT AND ORGANIZE WORK UNDER THIS DIVISION IN COORDINATION WITH ALL OTHER TRADES TO MAINTAIN THE SCHEDULE OF ALL TRADES.
5. CONTRACTOR SHALL KEEP A CLEAN AND SAFE WORK SITE. CONTRACTOR SHALL CLEAN/COVER EQUIPMENT. CONTRACTOR SHALL ENSURE WORK AREA IS ACCESSIBLE TO OWNER WORKERS. CONTRACTOR SHALL ENSURE WORK AREA IS FREE OF ALL DEBRIS AFTER EACH SHIFT TO THE SATISFACTION OF OWNER PERSONNEL.
6. ALL RACEWAYS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO STRUCTURE AND AT RIGHT ANGLES TO EXISTING RACEWAYS. NO DIAGONAL RUNS. ARRANGE RACEWAYS TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
7. ROUTING OF CONDUITS AS SHOWN IS APPROXIMATE AND DIAGRAMMATIC ONLY. EXACT ROUTING OF CONDUITS AND LOCATION OF NEW EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE CONFIRMED BY THE ENGINEER IN THE FIELD.
8. ALL WORK, AS SHOWN ON DRAWINGS, IS LARGELY DIAGRAMMATIC, AND THE CORRECT FINAL POSITION OR LOCATION OF EQUIPMENT CANNOT ALWAYS BE SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT PLACEMENT OF ALL WORK UNDER THIS DIVISION. THE CONTRACTOR SHALL REVIEW THE DRAWINGS OF ALL THE TRADES TO VERIFY CORRECT POSITIONS OF WORK.
9. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT SITE BEFORE COMMENCING ANY WORK OR PROCURING ANY NEW EQUIPMENT.
10. ALL SURFACE MOUNTED ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SEISMICALLY BRACED.
11. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW, SUITED FOR THE PURPOSE IN WHICH IT IS USED, AND SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
12. ALL REMOVED MATERIAL SHALL PROMPTLY BE DISPOSED OF OFF OWNER PROPERTY. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER FOR ANY STAGING OF NEW MATERIAL.
13. GROUNDING OF ALL EQUIPMENT SHALL CONFORM TO ARTICLE 250 OF THE NEC. ALL ELECTRICAL EQUIPMENT SHALL BE BONDED TO THE SITE GROUNDING SYSTEM OR BE GROUNDED BY RUNNING A SEPARATE GROUNDING CONDUCTOR THROUGH THE CONDUIT SYSTEM TO THE EQUIPMENT.
14. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIAL AND EQUIPMENT COMPATIBLE WITH THE EQUIPMENT ACTUALLY SUPPLIED.
15. CONTRACTOR SHALL PROVIDE AN INDEPENDENT FIRM TO CONDUCT PENETRATING RADAR FOR ALL CONDUIT INSTALLATIONS THROUGH STRUCTURAL CONCRETE WALL AND/OR FLOORS.
16. CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE USED. ALL DEVIATIONS TO DESIGNED ROUTING/EQUIPMENT SHALL BE SUBMITTED TO OWNER FOR REVIEW AND APPROVAL.
17. ALL CONDUITS PASSING THRU WALLS AND FLOORS SHALL BE SEALED AIR-TIGHT AROUND CONDUIT OPENING WITH UNIFORM BUILDING CODE APPROVED MATERIAL. FIRE RATING OF WALLS OR FLOORS SHALL BE MAINTAINED.
18. ALL ELECTRICAL CONDUITS SHALL NOT REMAIN UNCAPPED.
19. MANDREL AND SWAB ALL CONDUITS AND DUCTS PRIOR TO PULLING-IN CONDUCTORS. ALL CONDUIT CROSSING EXPANDING AND SEISMIC SEPARATION JOINTS SHALL BE PROVIDED WITH EXPANSION/DEFLECTION FITTINGS AND SEAL TIGHT FLEXIBLE METAL CONDUIT AS REQUIRED TO ACCOMMODATE MOVEMENT AND/OR VIBRATION.
20. CONDUIT CONNECTIONS TO ELECTRICAL EQUIPMENT SHALL BE SEALED TO PROTECT AGAINST ENVIRONMENT.
21. ALL SPARE CONDUITS SHALL CONTAIN A NYLON PULL ROPE ONLY FOR FUTURE USE.
22. ALL CONDUIT RUNS INCLUDING STRAIGHT FEEDER AND BRANCH CIRCUITS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
23. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS SHALL BE PROVIDED WITH LIQUID-TIGHT FLEXIBLE STEEL CONDUIT WITH WATERTIGHT CONNECTORS, MAXIMUM LENGTH OF CONDUIT SHALL BE SIX FEET, UNLESS OTHERWISE NOTED.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY STRUCTURAL CALCULATIONS AND DETAILS FOR CONDUIT SUPPORTS TO STRUCTURAL ENGINEER.
25. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS AS THEY ARE MADE. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF 'AS-BUILT' DRAWINGS, FULLY MARKED UP, AS A CONDITION OF ACCEPTANCE OF WORK.

ABBREVIATIONS

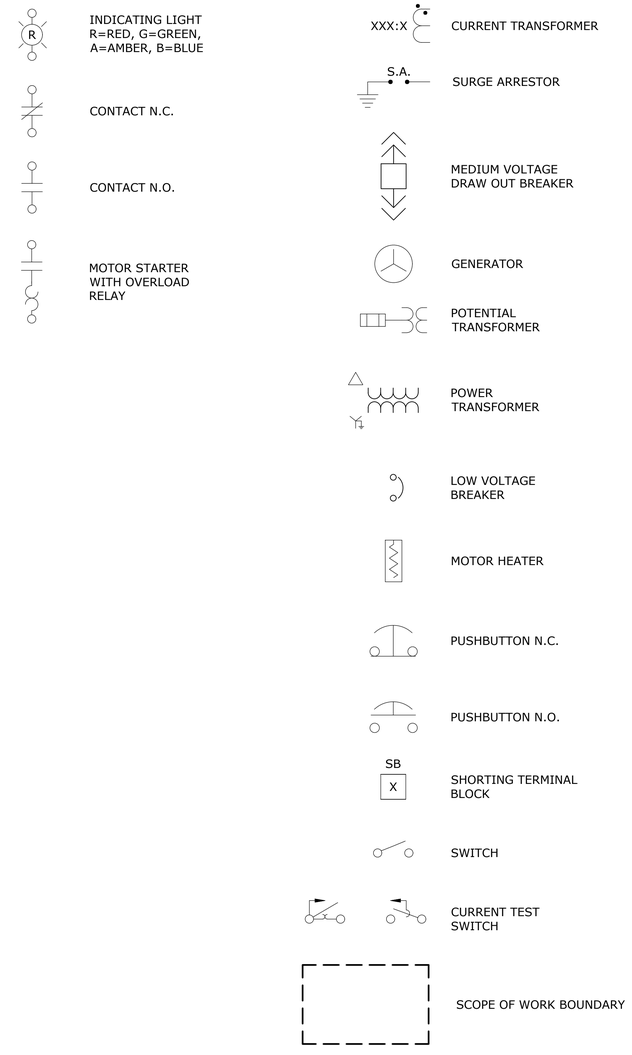
ANSI/IEEE DEVICE NUMBERS

25 = SYNCHRONIZATION CHECK
26 = LIQUID TEMPERATURE
27 = UNDERVOLTAGE RELAY
32 = REVERSE POWER RELAY
40 = FIELD RELAY / LOSS OF FIELD
43 = MANUAL SELECTOR SWITCH
50 = INSTANTANEOUS OVERCURRENT RELAY
51 = TIME OVERCURRENT RELAY
52 = AC CIRCUIT BREAKER
59 = OVERVOLTAGE RELAY
63PS = PRESSURE SWITCH
63VPV = VACUUM ALARM
63VPP = PRESSURE ALARM
63X = RAPID PRESSURE RISE SEAL-IN-RELAY
71 = LIQUID LEVEL
81 = FREQUENCY RELAY
86 = LOCKOUT RELAY
87 = DIFFERENTIAL PROTECTION

ABBREVIATIONS

ATS = AUTOMATIC TRANSFER SWITCH
CPT = CONTROL POWER TRANSFORMER
HOA = HAND-OFF-AUTO SWITCH
MCC = MOTOR CONTROL CENTER
MCP = MOTOR CIRCUIT PROTECTOR
NGR = NEUTRAL GROUND RESISTOR
PT = POTENTIAL TRANSFORMER
SA = SURGE ARRESTOR
SWGR = SWITCHGEAR
XFMR = TRANSFORMER

SYMBOLS



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10650 TREENA ST., STE 303
SAN DIEGO, CA 92131

REGISTERED PROFESSIONAL ENGINEER
WILLIAM D. FALKENBERG
No. E-22774
Expires 06/30/27
ELECTRICAL
STATE OF CALIFORNIA

DATE SIGNED 06/05/26
PROFESSIONAL STAMP ONLY APPLIES TO CURRENT REVISION AS INDICATED BY SCOPE OF WORK BOUNDARY AREAS IF SHOWN

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
NOTES, ABBREVIATIONS, SYMBOLS

Sheet No.
IP-1201A-1

2/18/2026 2:12:00 PM
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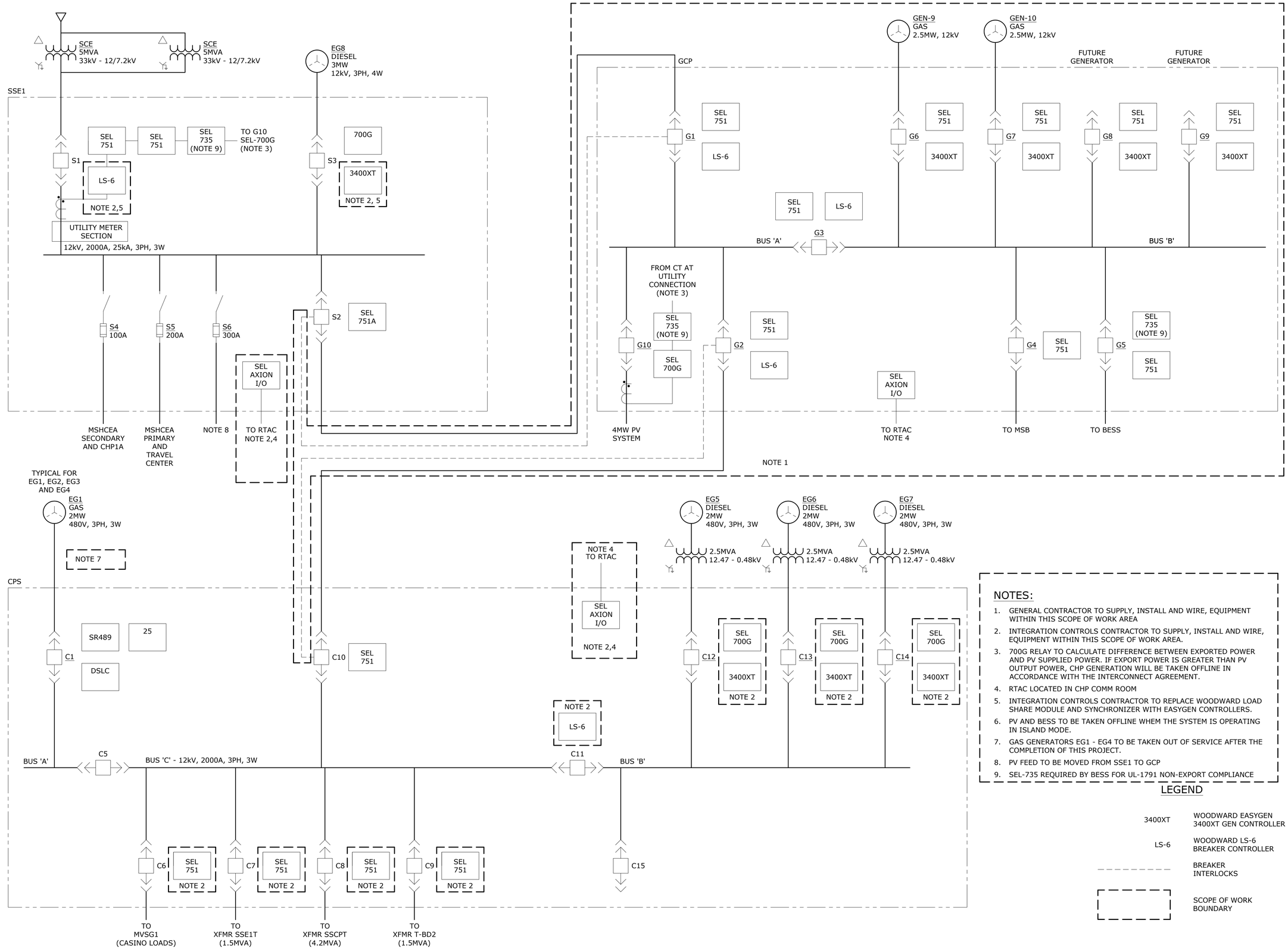

NOTES:

1. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE, EQUIPMENT WITHIN THIS SCOPE OF WORK AREA
2. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INSTALL AND WIRE, EQUIPMENT WITHIN THIS SCOPE OF WORK AREA.
3. 700G RELAY TO CALCULATE DIFFERENCE BETWEEN EXPORTED POWER AND PV SUPPLIED POWER. IF EXPORT POWER IS GREATER THAN PV OUTPUT POWER, CHP GENERATION WILL BE TAKEN OFFLINE IN ACCORDANCE WITH THE INTERCONNECT AGREEMENT.
4. RTAC LOCATED IN CHP COMM ROOM
5. INTEGRATION CONTROLS CONTRACTOR TO REPLACE WOODWARD LOAD SHARE MODULE AND SYNCHRONIZER WITH EASYGEN CONTROLLERS.
6. PV AND BESS TO BE TAKEN OFFLINE WHEM THE SYSTEM IS OPERATING IN ISLAND MODE.
7. GAS GENERATORS EG1 - EG4 TO BE TAKEN OUT OF SERVICE AFTER THE COMPLETION OF THIS PROJECT.
8. PV FEED TO BE MOVED FROM SSE1 TO GCP
9. SEL-735 REQUIRED BY BESS FOR UL-1791 NON-EXPORT COMPLIANCE

LEGEND

3400XT	WOODWARD EASYGEN 3400XT GEN CONTROLLER
LS-6	WOODWARD LS-6 BREAKER CONTROLLER
- - - - - -	BREAKER INTERLOCKS
[ ]	SCOPE OF WORK BOUNDARY

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STRATA POWER GROUP
10650 TREENA ST., STE 303
SAN DIEGO, CA 92131

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

DATE SIGNED 06/05/26
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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
SINGLE LINE 12kV DISTRIBUTION PROTECTION

Sheet No.
IP-3221A-1

2/18/2026 2:12:00 PM
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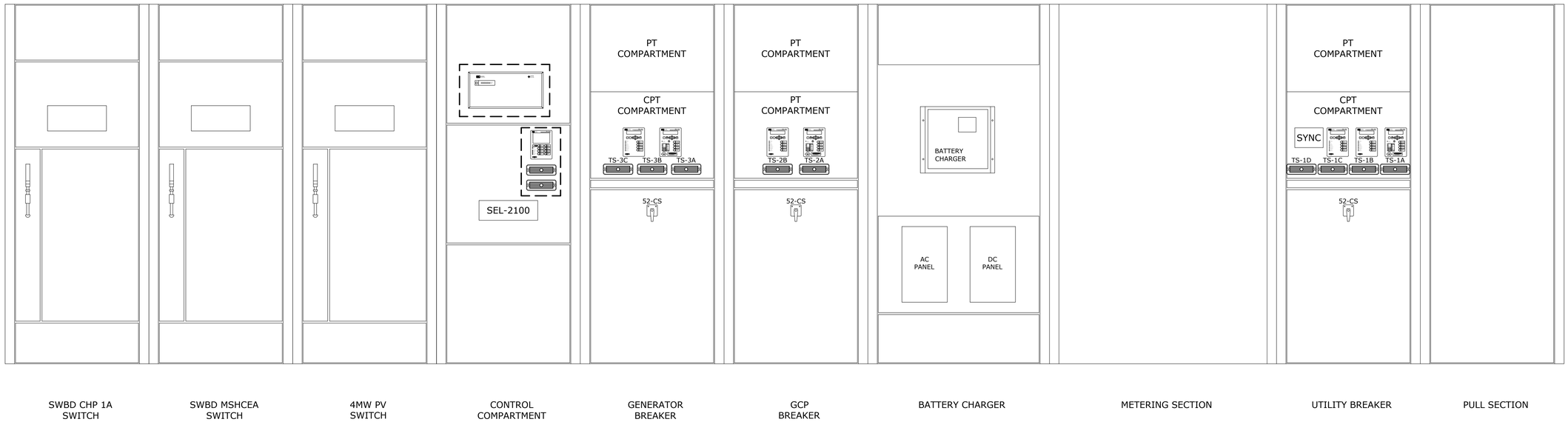

NOTES:

1. INTEGRATION CONTROLS CONTRACTOR TO REPLACE WOODARD SYNC MODULE IN UTILITY SECTION WITH LS-6 CONTROLLER
2. INTEGRATION CONTROLS CONTRACTOR TO REPLACE WOODWARD LOAD SHARE MODULE IN GEN BREAKER SECTION WITH 3400XT CONTROLLER
3. LS-6 CONTROLLER TO PROVIDE ANALOG SIGNAL TO CHP CONTROLLER FOR UTILITY EXPORT POWER.

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'SSE1' ELEVATION

Sheet No.

IP-3300B-1

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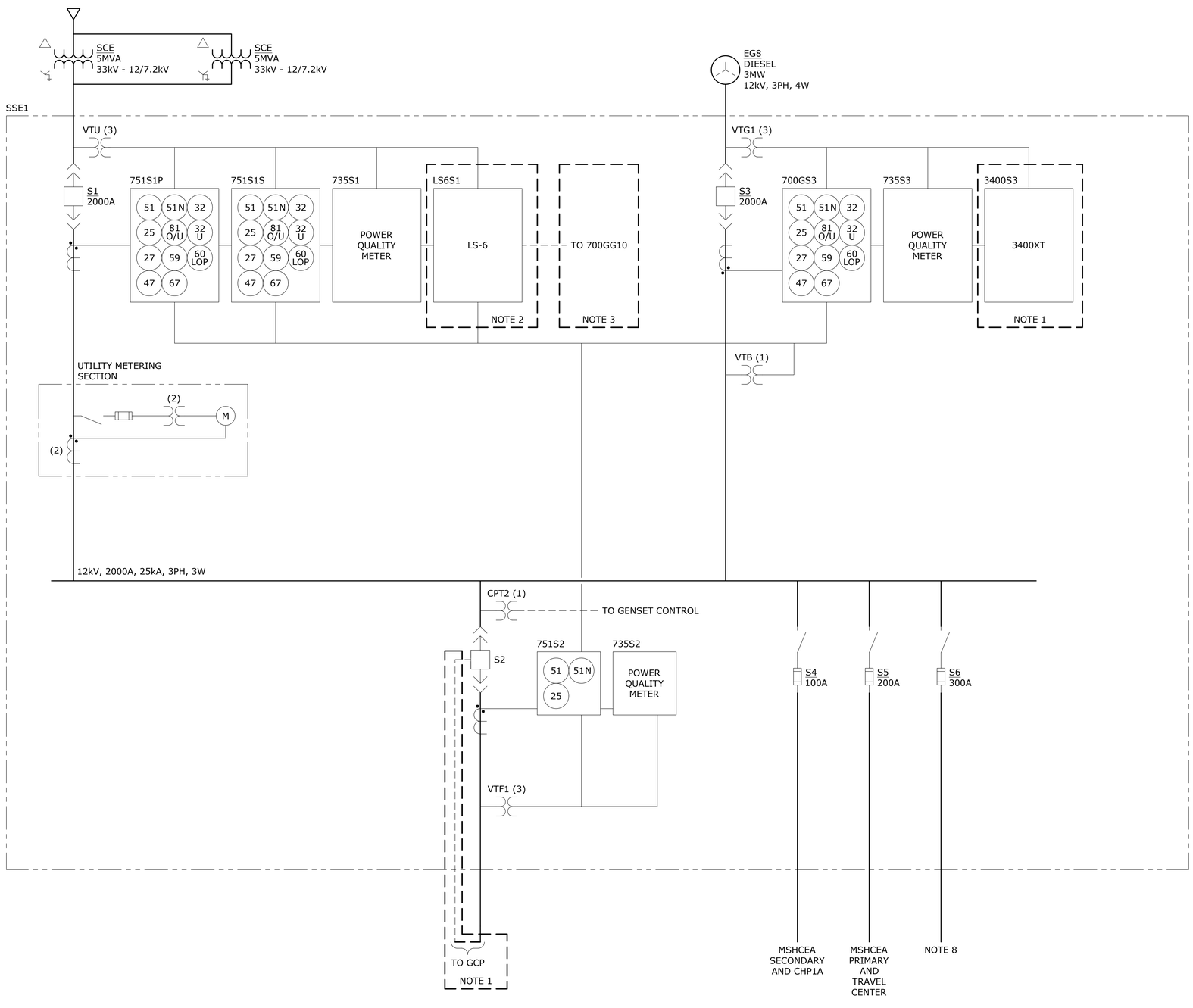

NOTES:

1. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE, EQUIPMENT WITHIN THIS SCOPE OF WORK AREA
2. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INSTALL AND WIRE, EQUIPMENT WITHIN THIS SCOPE OF WORK AREA.
3. INTEGRATION ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN SSE1 AND GCP.
4. INTEGRATION CONTROLS CONTRACTOR TO REPLACE WOODWARD LOAD SHARE MODULE AND SYNCHRONIZER WITH EASYGEN CONTROLLERS.
5. PV FEED TO BE MOVED FROM SWITCHGEAR SSE1 TO GCP
6. ANALOG OUTPUT FROM LS-6 AND 3400XT CONTROLLER TO TRANSMITER POWER FLOW TO CHP CONTROLLER WITH A 4-20mA ANALOG OUTPUT.

LEGEND

3400XT	WOODWARD EASYGEN 3400XT GEN CONTROLLER
LS-6	WOODWARD LS-6 BREAKER CONTROLLER
- - - - - - - -	BREAKER INTERLOCKS

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Sheet Title

SWITCHGEAR 'SSE1' SINGLE LINE

Sheet No.

IP-3300C-1

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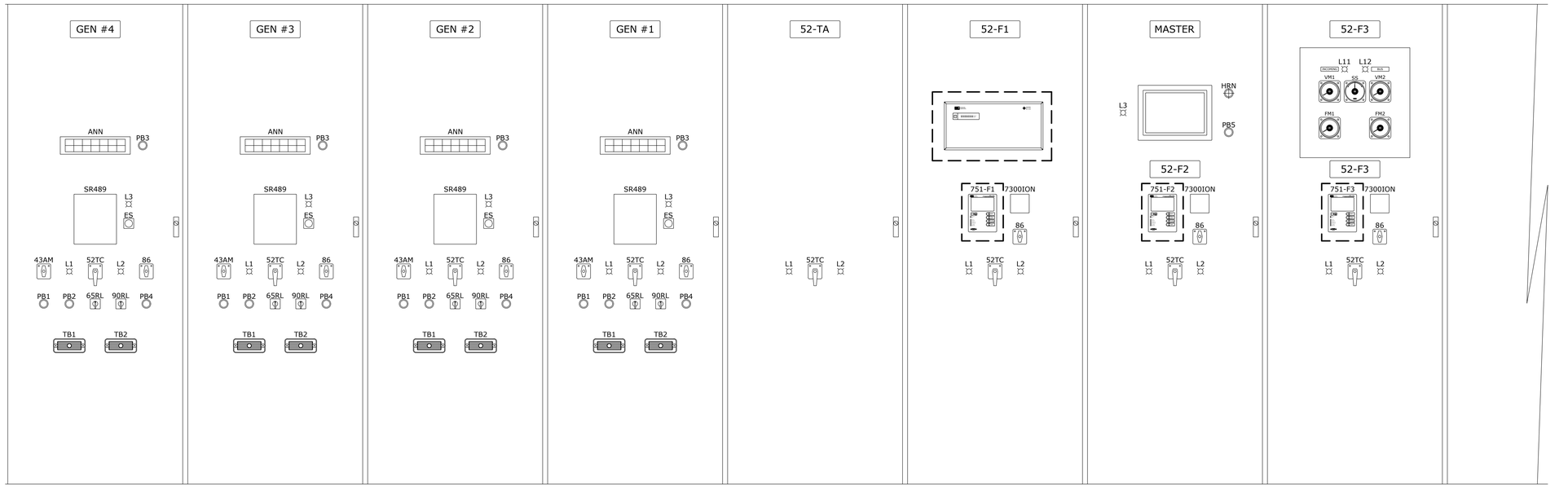

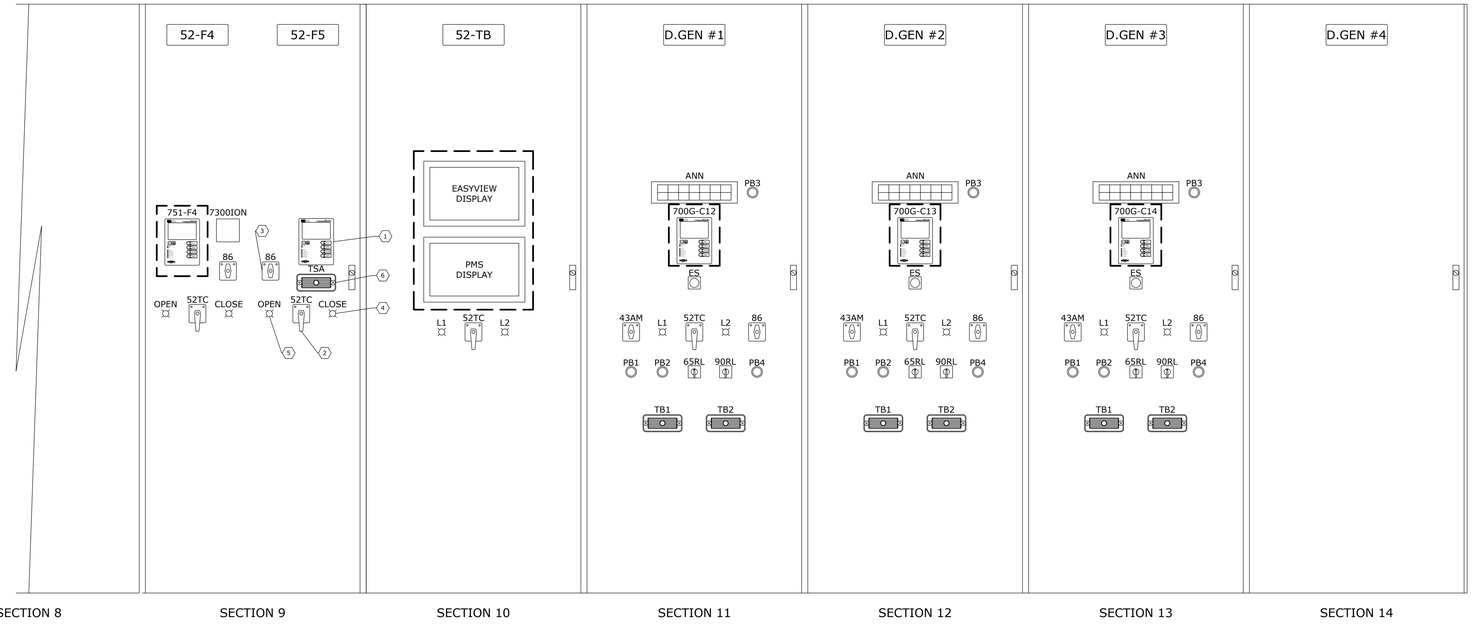

NOTES:

1. INTEGRATION CONTROLS CONTRACTOR TO REPLACE SELL 300G RELAYS WITH SEL 700G RELAYS IN SECTIONS 11, 12 AND 13.
2. INTEGRATION CONTROLS CONTRACTOR TO REPLACE DSLC CONTROLLERS WITH EASYGEN 3400XT CONTROLLERS IN SECTIONS 11, 12 AND 13.
3. INTEGRATION CONTROLS CONTRACTOR TO REPLACE SR735 RELAYS WITH SEL 751 RELAYS IN SECTIONS 6, 7, 8 AND 9.
4. INTEGRATION CONTROL CONTRACTOR TO SUPPLY AND INSTALL EASYGEN AND PMS HMIs.

SCOPE OF WORK BOUNDARY

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49566 SEMINOLE DRIVE,
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Sheet Title

SWITCHGEAR 'CPS' ELEVATION

Sheet No.

IP-3400B-1

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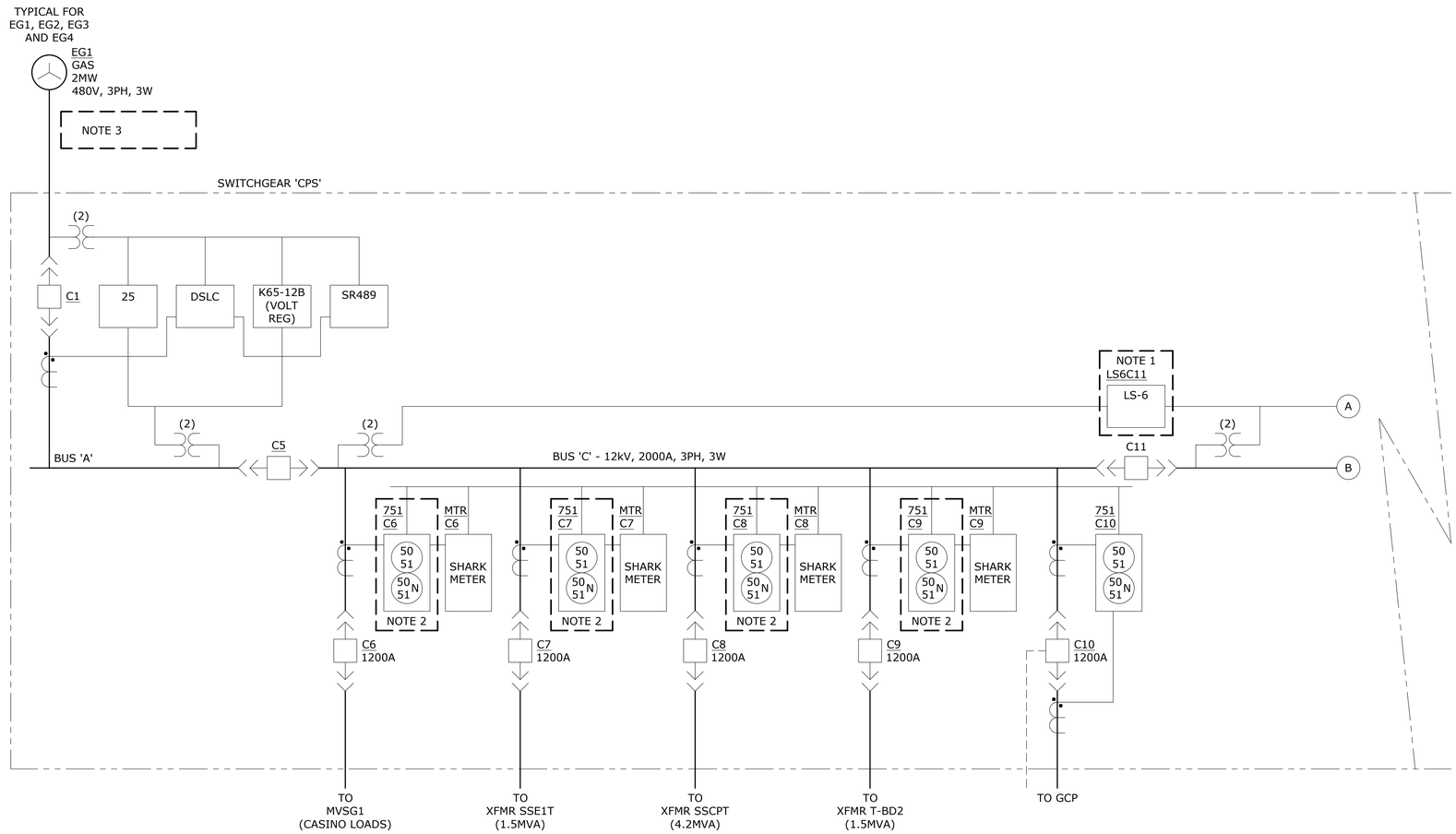
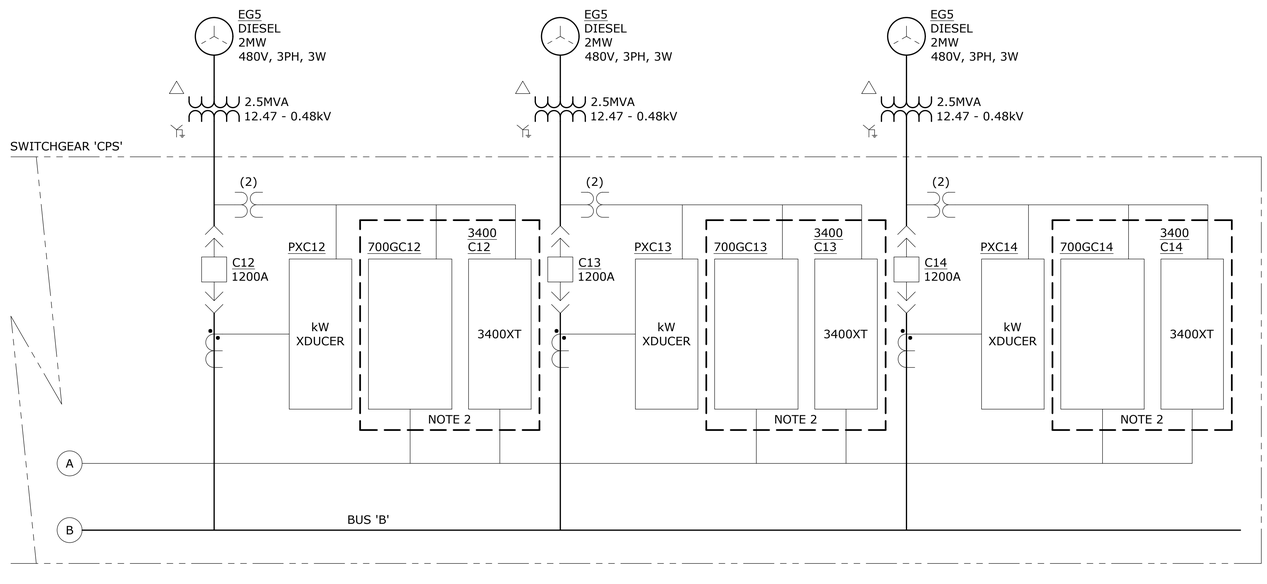


NOTES:

1. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INSTALL AND WIRE, EQUIPMENT WITHIN THIS SCOPE OF WORK AREA.
2. INTEGRATION CONTROLS CONTRACTOR TO REPLACE EXSITING SR735 RELAYS WITH SEL-751 RELAYS.
3. GAS GENERATORS EG1 - EG4 TO BE TAKEN OUT OF SERVICE AFTER THE COMPLETION OF THIS PROJECT.



LEGEND

3400XT	WOODWARD EASYGEN 3400XT GEN CONTROLLER
LS-6	WOODWARD LS-6 BREAKER CONTROLLER
- - - - - -	BREAKER INTERLOCKS
[ ]	SCOPE OF WORK BOUNDARY

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Sheet Title

SWITCHGEAR 'CPS' SINGLE LINE

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IP-3400C-1

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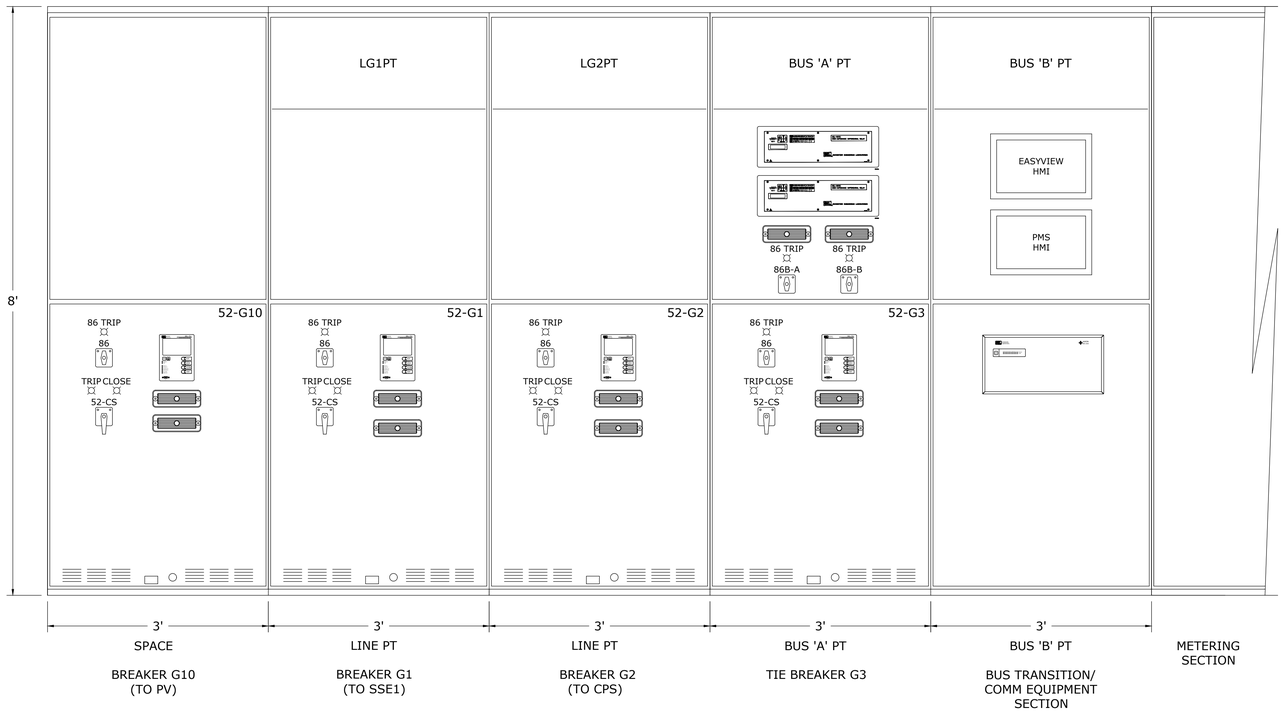

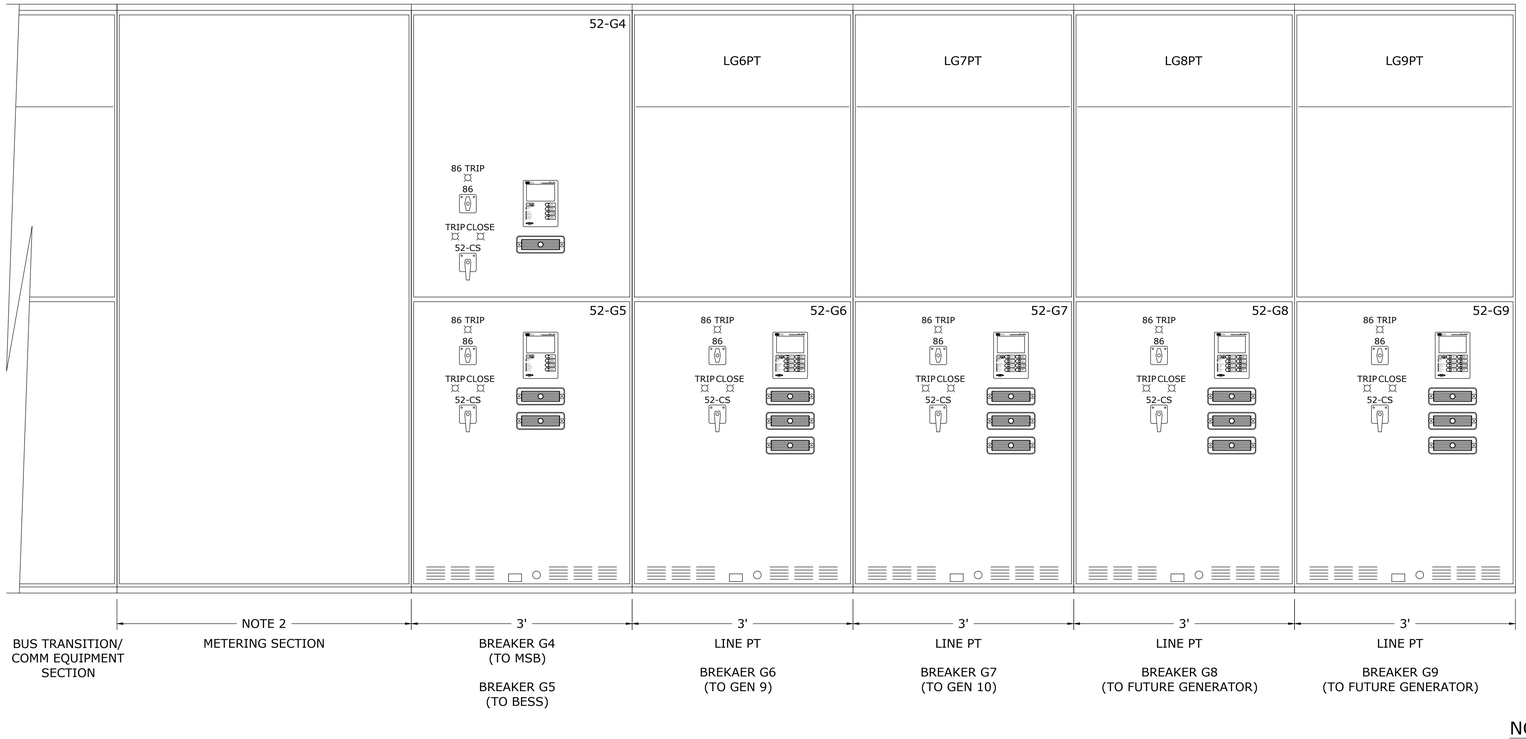

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. METER SECTION TO COMPLY WITH SCE NET GENERATION METER REQUIREMENTS. FUTURE METER TO BE SUPPLIED AND INSTALLED BY SCE.

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' ELEVATION

Sheet No.

IP-3500B-1

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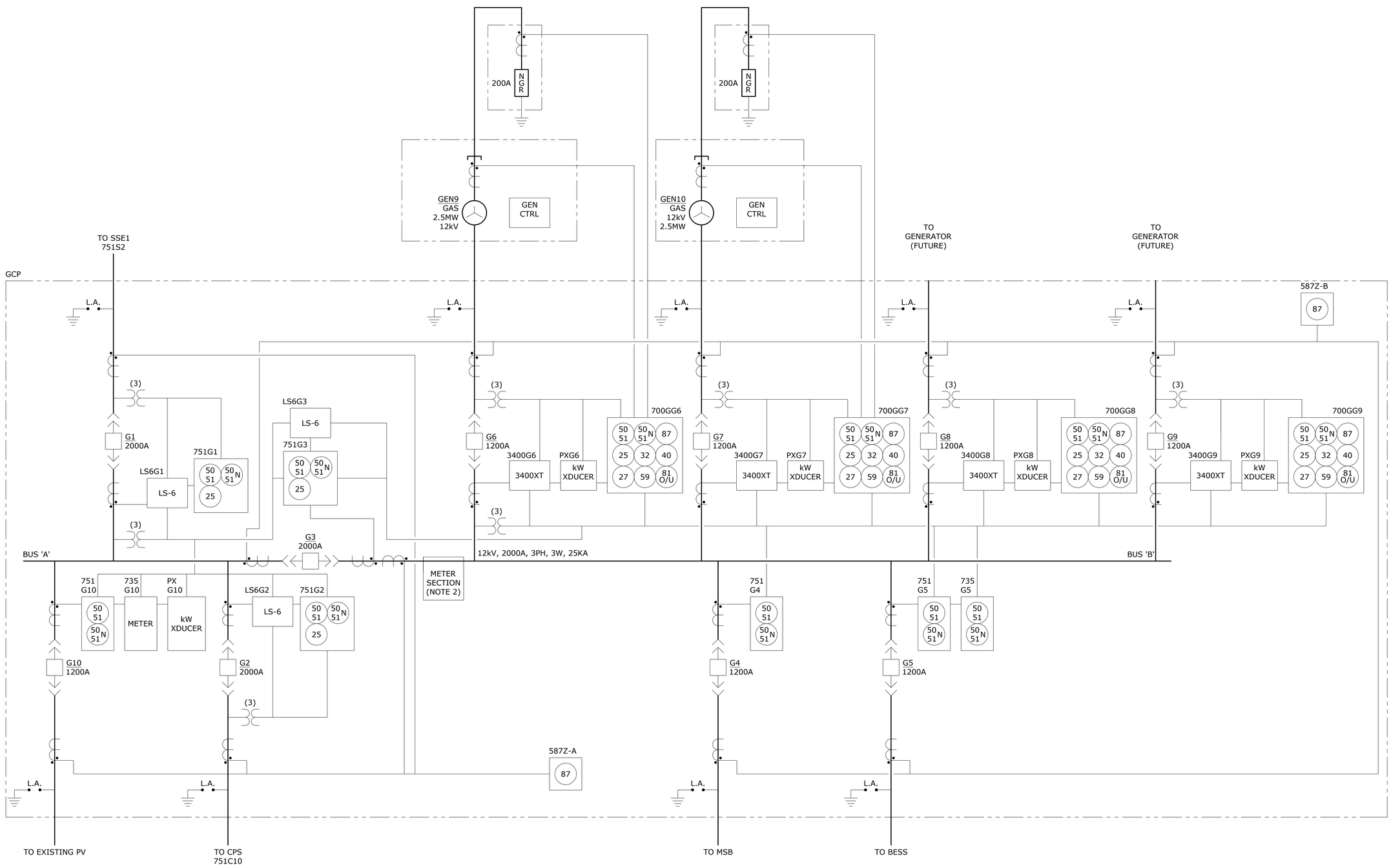

NOTES:

1. GENERAL CONTRACTOR TO SUPPLY AND INSTALL NGRs
2. METER SECTION TO COMPLY WITH SCE NET GENERATION METER REQUIREMENTS. FUTURE METER TO BE SUPPLIED AND INSTALLED BY SCE.
3. 700G RELAYS TO BE SEL, P/N: 700G11A1A1A7685A620
4. 751G1, 751G3, 751G4, 751G5 AND 751G10 RELAYS TO BE SEL-751, P/N: 751201A1A1A7085BF20
5. 735G5 AND 735G10 METERS TO BE SEL-735, P/N:0735LX00944CXXXXXX16101XX
6. 751G2 RELAY TO BE SEL-751, P/N: 751201A1A1A7085B620
7. LS-6 CONTROLLER TO BE WOODWARD LS-612 P2 P/N:8440-2317
8. 3400XTCONTROLLERS TO BE WOODWARD 3400XT P2 P/N:8440-2087

LEGEND

3400XT	WOODWARD EASYGEN 3400XT GEN CONTROLLER
LS-6	WOODWARD LS-6 BREAKER CONTROLLER

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
SWITCHGEAR 'GCP' OVERALL SINGLE LINE

Sheet No.
IP-3500C-1

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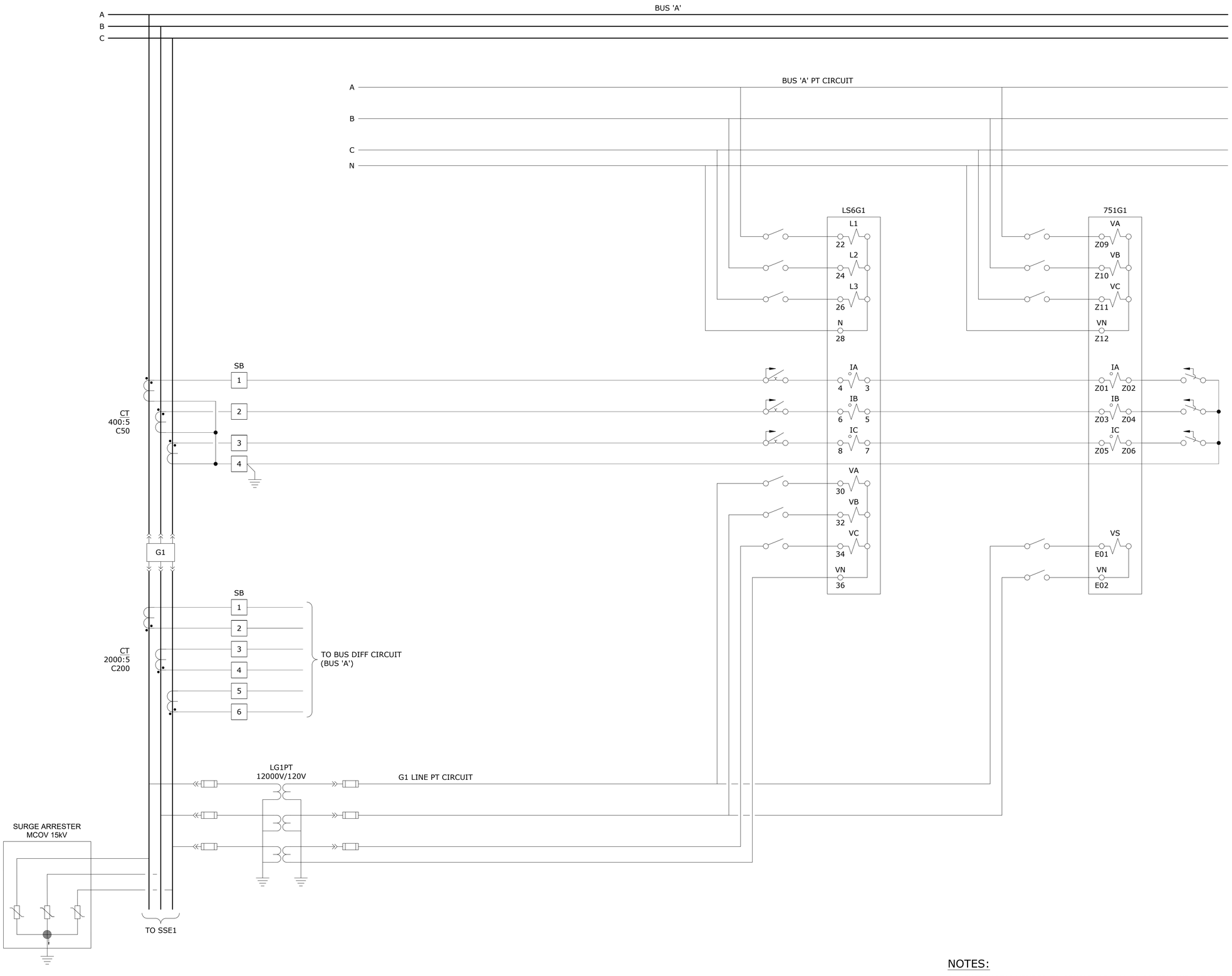

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G1 THREE LINE

Sheet No.

IP-3501B-1

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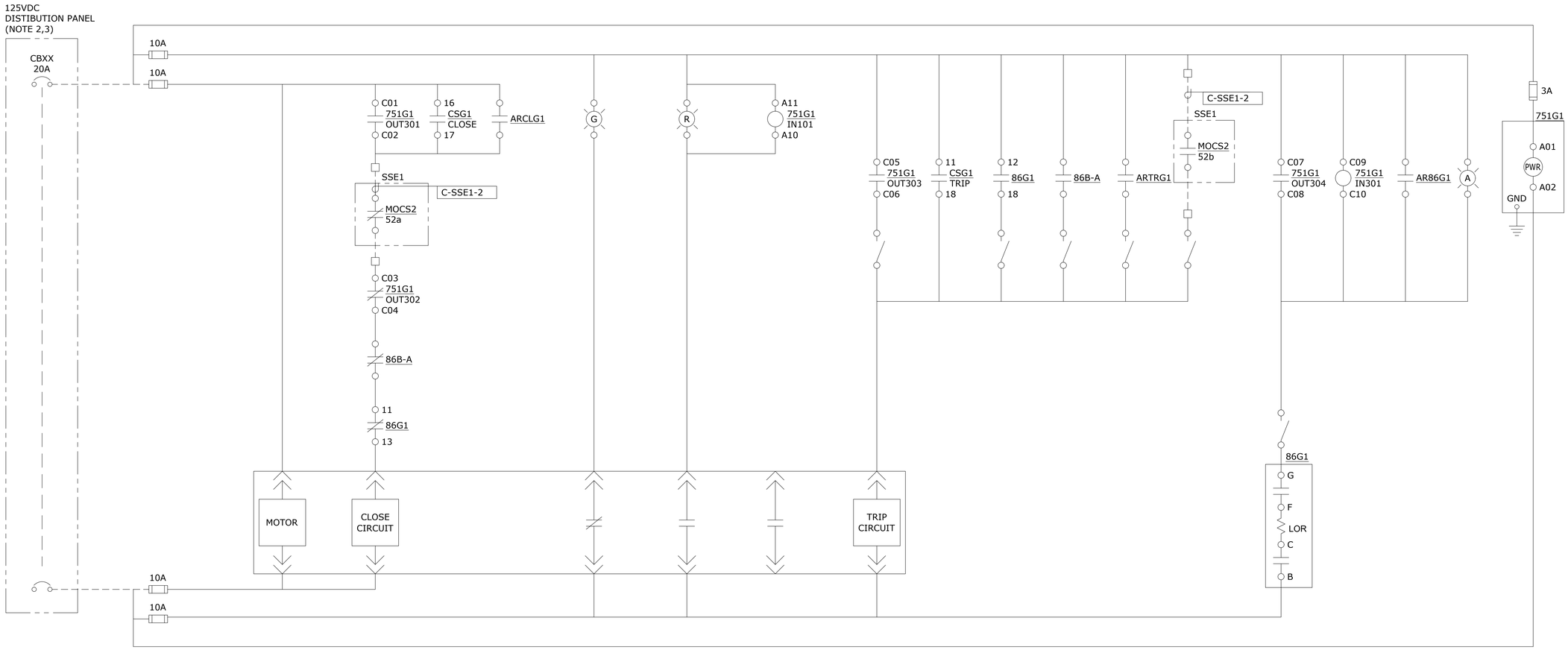

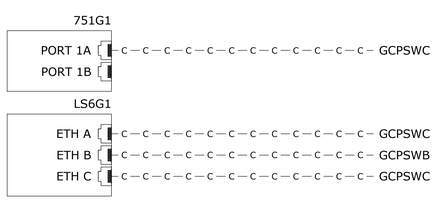

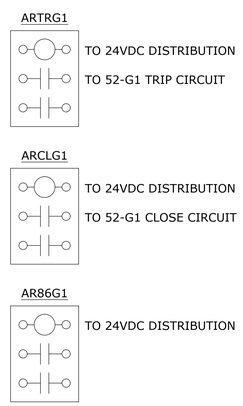

86G1
LOCK OUT RELAY

DECK	POSITION	POSITION: TRIP	POSITION: RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G1 CLOSE PERMISSIVE
	12 — 18	X		52-G1 TRIP
	15 — 17		X	
	14 — 16	X		TO RTAC
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG1
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION: TRIP	POSITION: NORMAL	POSITION: CLOSE	
1	11 — 18	X			52-G1 TRIP
	16 — 17			X	52-G1 CLOSE

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE 125VDC BATTERY CHARGER, BATTERIES AND DISTRIBUTION PANEL.
3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.

LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

– FIELD WIRING BY GENERAL CONTRACTOR

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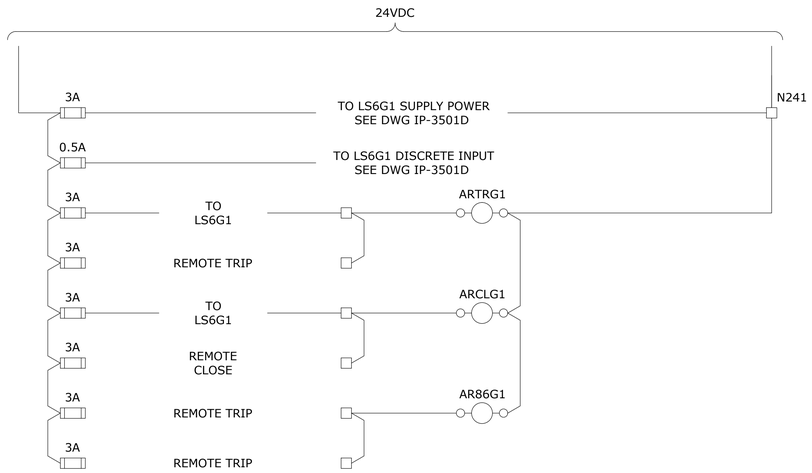
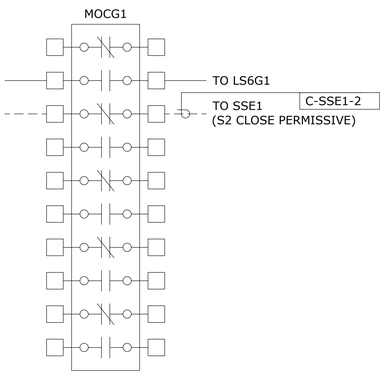
Sheet Title

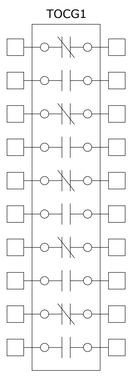
SWITCHGEAR 'GCP' BREAKER - G1 DC SCHEMATIC

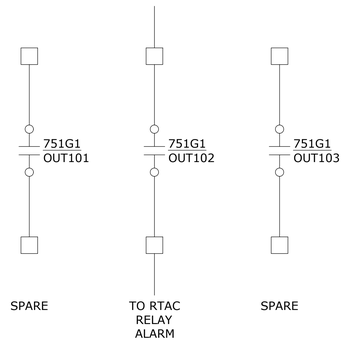
Sheet No.

IP-3501C-1









NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. TOC CONTACTS SHOWN IN THE BREAKER RACKED OUT POSITION

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Sheet Title

SWITCHGEAR 'GCP' BREAKER - G1 DC SCHEMATIC

Sheet No.

IP-3501C-2

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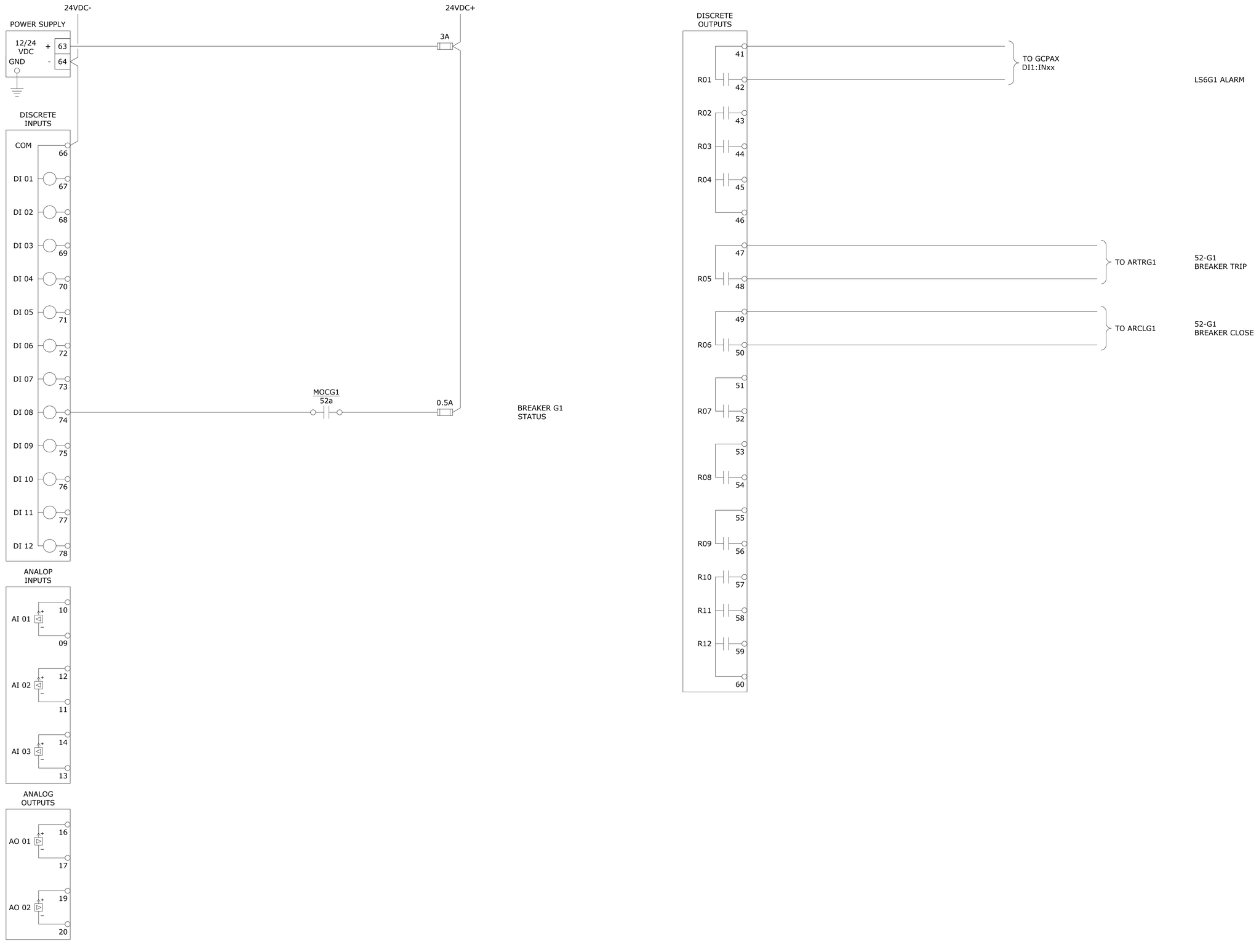

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR ' GCP' BREAKER - G1 EASYGEN CONTROLLER

Sheet No.

IP-3501D-1

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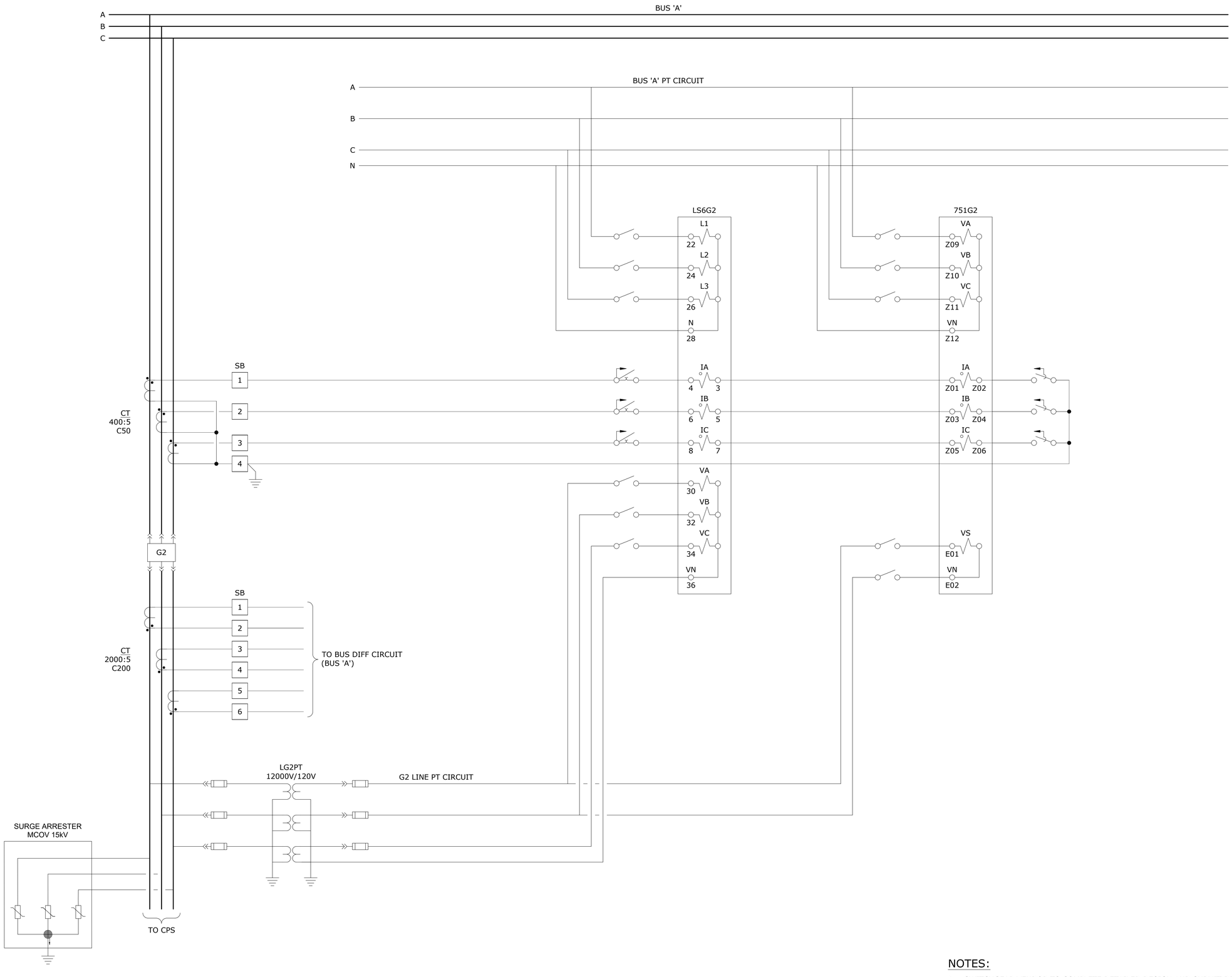

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
SWITCHGEAR 'GCP' BREAKER - G2 THREE LINE

Sheet No.
IP-3502B-1

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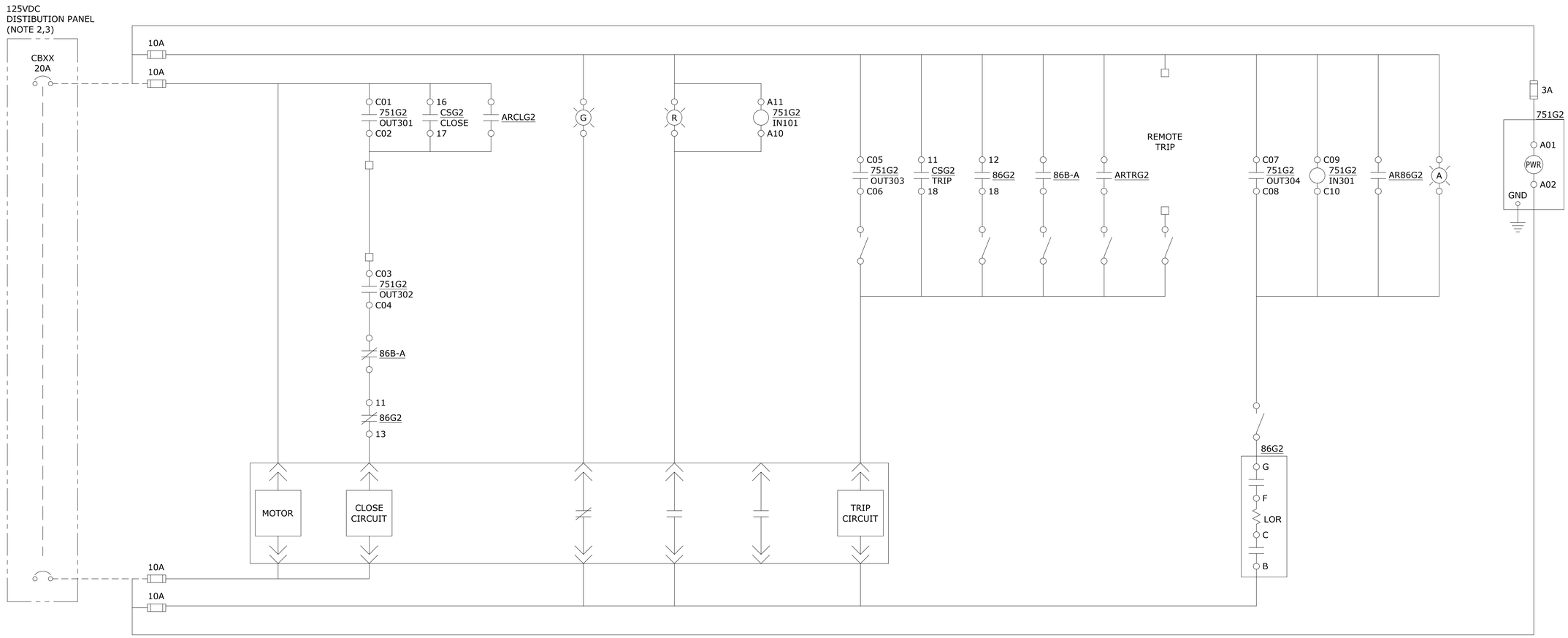

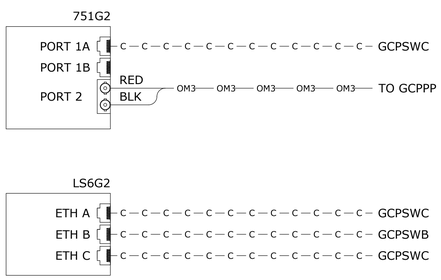

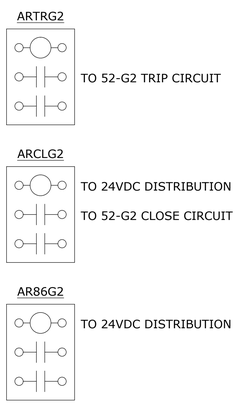

86G2
LOCK OUT RELAY

DECK	POSITION	TRIP	RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G2 CLOSE PERMISSIVE
	12 — 18	X		52-G2 TRIP
	15 — 17		X	
	14 — 16	X		
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG2
BREAKER CONTROL SWITCH

DECK	POSITION	TRIP	NORMAL	CLOSE	
1	11 — 18	X			52-G2 TRIP
	16 — 17			X	52-G2 CLOSE

LEGEND

— C — C — C — C — C — C — C — C — C — C — C — C — CAT6 ETHERNET CABLE

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE 125VDC BATTERY CHARGER, BATTERIES AND DISTRIBUTION PANEL.
3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.

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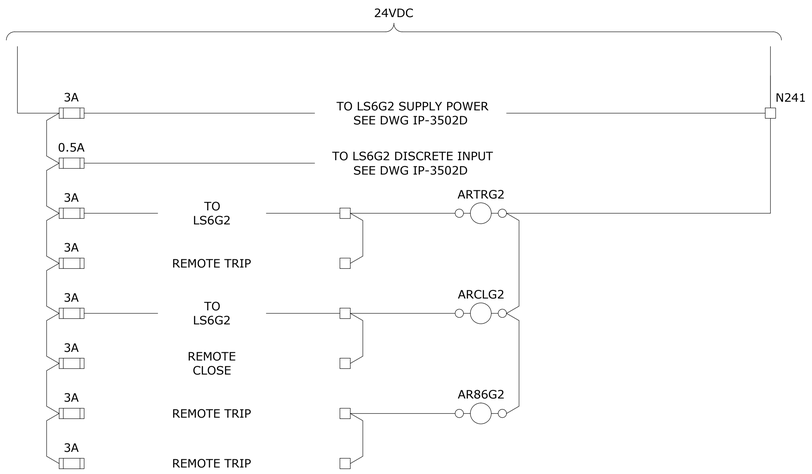
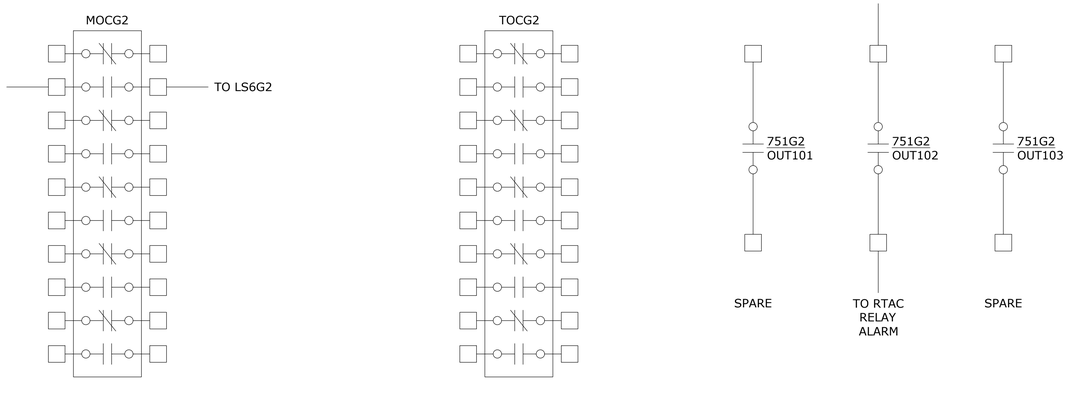
Sheet Title
SWITCHGEAR 'GCP' BREAKER - G2 DC SCHEMATIC

Sheet No.
IP-3502C-1





NOTES:

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2. TOC CONTACTS SHOWN IN THE BREAKER RACKED OUT POSITION

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G2 DC SCHEMATIC

Sheet No.

IP-3502C-2

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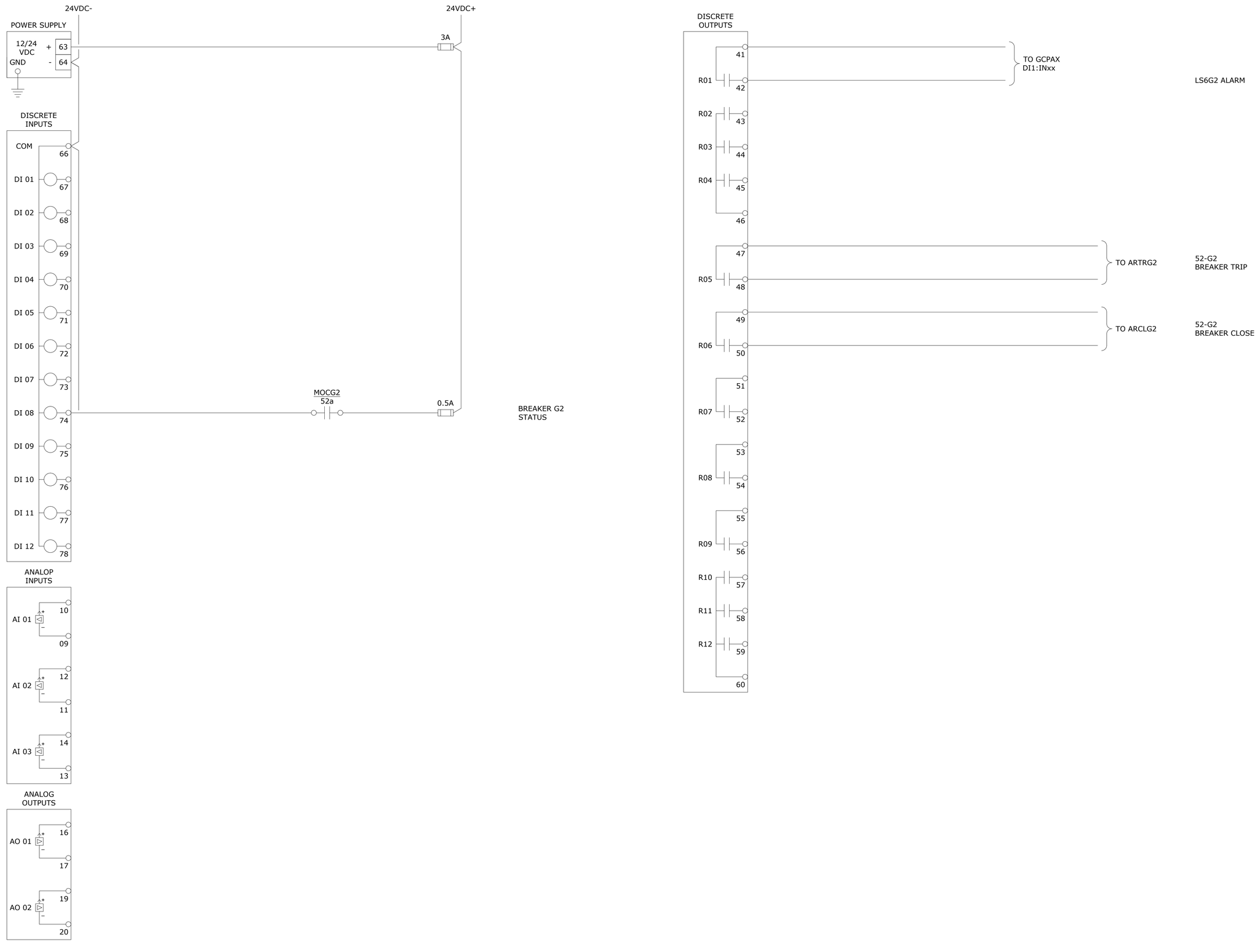

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR ' GCP' BREAKER - G2 EASYGEN CONTROLLER

Sheet No.

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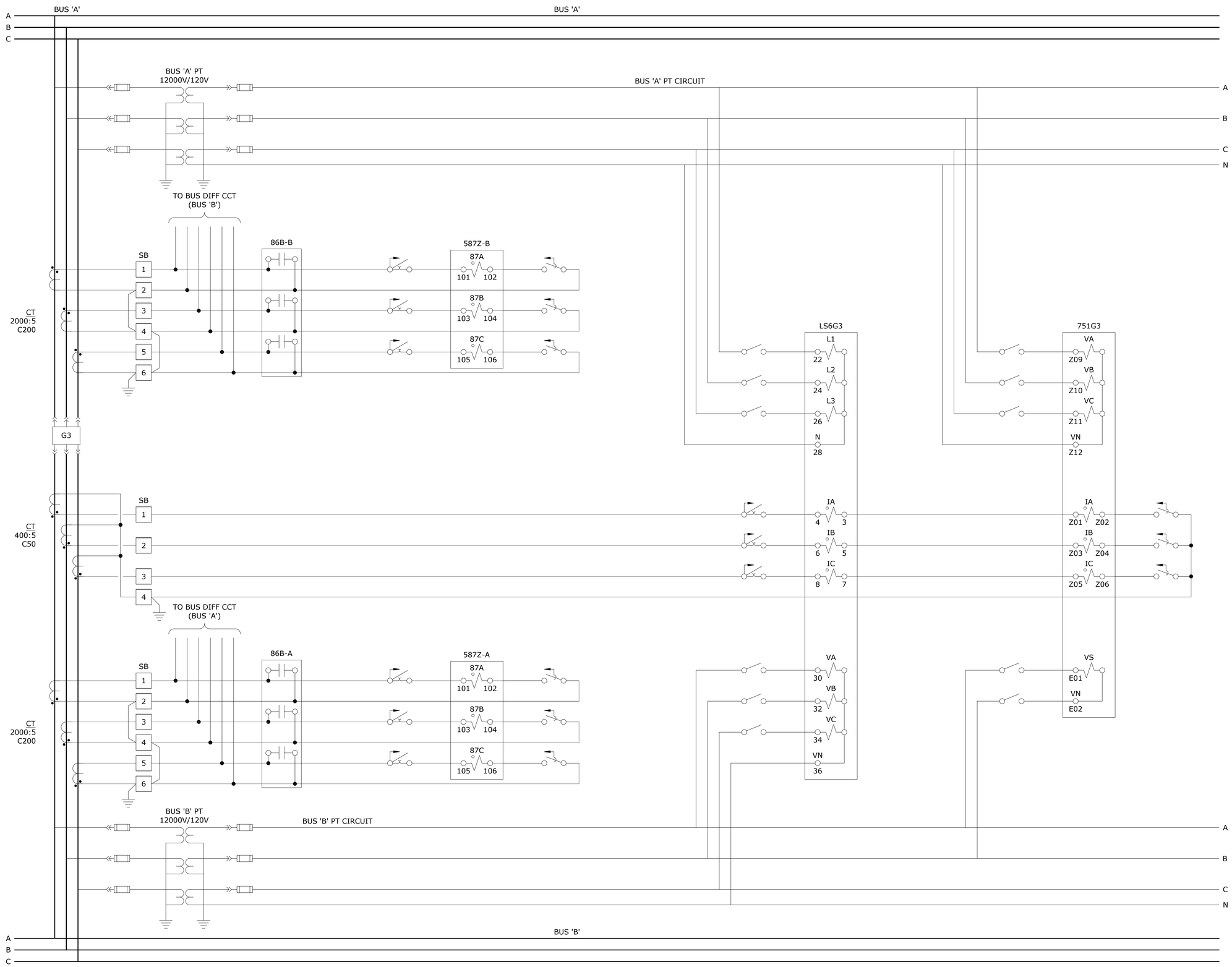

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G3 THREE LINE

Sheet No.

IP-3503B-1

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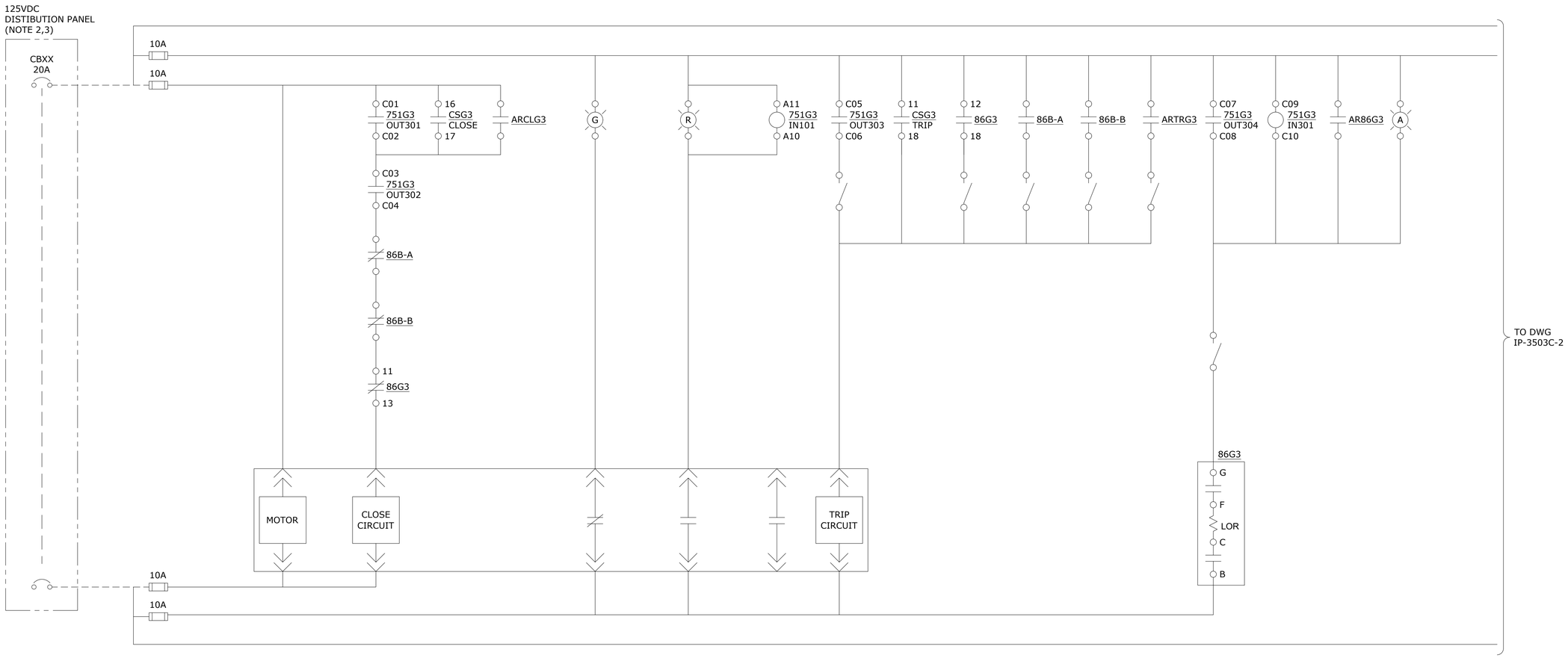

751G3

PORT 1A	GCPSWC
PORT 1B	

LS6G3

ETH A	GCPSWC
ETH B	GCPSWB
ETH C	GCPSWC

AR86BA — TO 24VDC DISTRIBUTION

AR86BB — TO 24VDC DISTRIBUTION

ARTRG3 — TO 24VDC DISTRIBUTION; TO 52-G3 TRIP CIRCUIT

ARCLG3 — TO 24VDC DISTRIBUTION; TO 52-G3 CLOSE CIRCUIT

AR86G3 — TO 24VDC DISTRIBUTION

86G3
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G3 CLOSE PERMISSIVE
	12 — 18	X		52-G3 TRIP
	15 — 17		X	
	14 — 16	X		
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG3
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G3 TRIP
	16 — 17			X	52-G3 CLOSE

NOTES:

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3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.

LEGEND

— C — C — C — C — C — C — C — C — C — C — C — CAT6 ETHERNET CABLE

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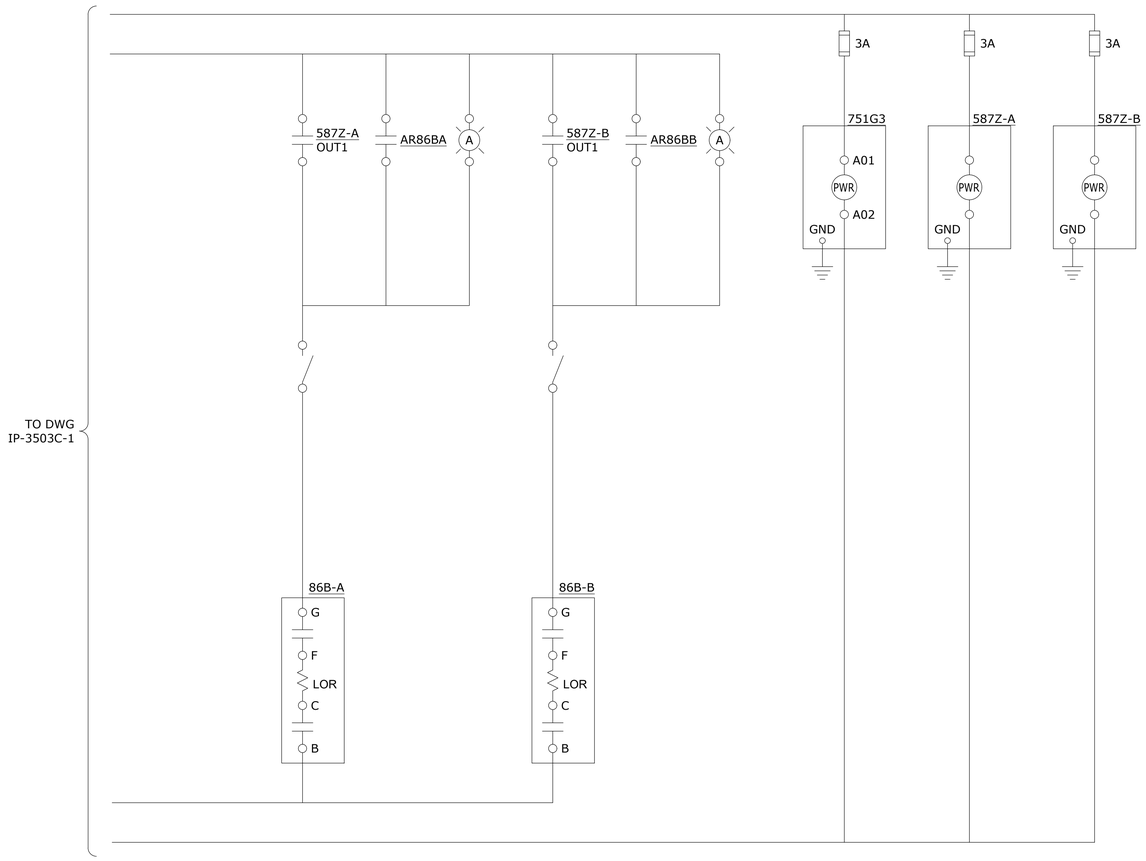
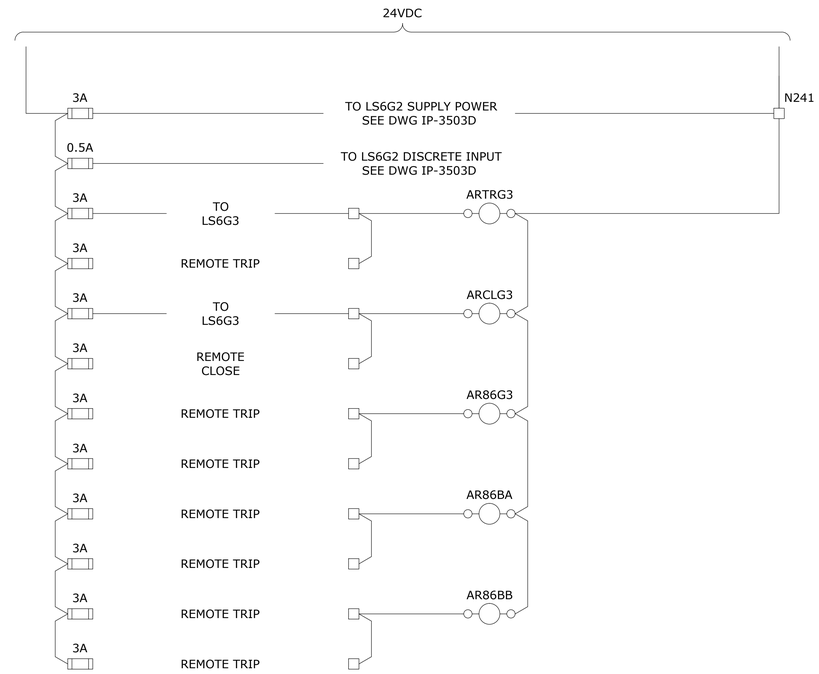
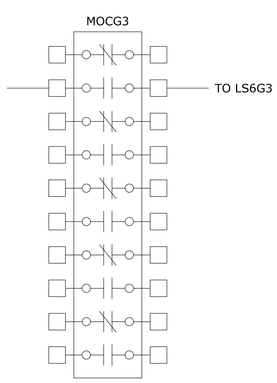
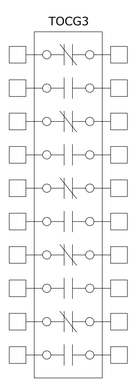
Sheet Title
SWITCHGEAR 'GCP' BREAKER - G3 DC SCHEMATIC

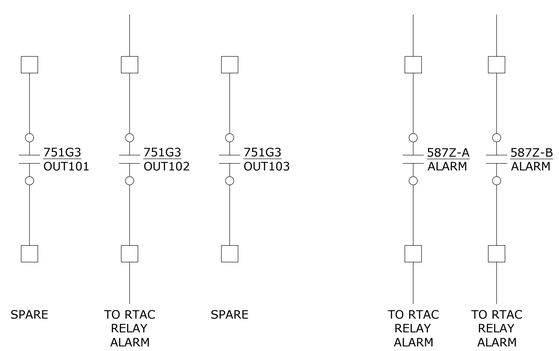
Sheet No.
IP-3503C-1











86B-A
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G–F		X	
	C–B		X	
1	11–13		X	
	12–18	X		
	15–17		X	
	14–16	X		
2	21–23		X	
	22–28	X		
	25–27		X	
	24–26	X		STATUS TO RTAC
3	31–33		X	52-G1 CLOSE PERMISSIVE
	32–38	X		52-G1 TRIP
	35–37		X	52-G2 CLOSE PERMISSIVE
	34–36	X		52-G2 TRIP
4	41–43		X	52-G3 CLOSE PERMISSIVE
	42–48	X		52-G3 TRIP
	45–47		X	52-G10 CLOSE PERMISSIVE
	44–46	X		52-G10 TRIP
5	51–53		X	
	52–58	X		
	55–57		X	
	54–56	X		

86B-B
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G–F		X	
	C–B		X	
1	11–13		X	
	12–18	X		
	15–17		X	
	14–16	X		
2	21–23		X	
	22–28	X		
	25–27		X	
	24–26	X		STATUS TO RTAC
3	31–33		X	52-G3 CLOSE PERMISSIVE
	32–38	X		52-G3 TRIP
	35–37		X	52-G4 CLOSE PERMISSIVE
	34–36	X		52-G4 TRIP
4	41–43		X	52-G5 CLOSE PERMISSIVE
	42–48	X		52-G5 TRIP
	45–47		X	52-G6 CLOSE PERMISSIVE
	44–46	X		52-G6 TRIP
5	51–53		X	52-G7 CLOSE PERMISSIVE
	52–58	X		52-G7 TRIP
	55–57		X	52-G8 CLOSE PERMISSIVE
	54–56	X		52-G8 TRIP
6	61–63		X	52-G9 CLOSE PERMISSIVE
	62–68	X		52-G9 TRIP
	65–67		X	
	64–66	X		
7	71–73		X	
	72–78	X		
	75–77		X	
	74–76	X		

NOTES:

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PROJECT NO. 24231

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G3 & 587Z DC SCHEMATIC

Sheet No.

IP-3503C-2

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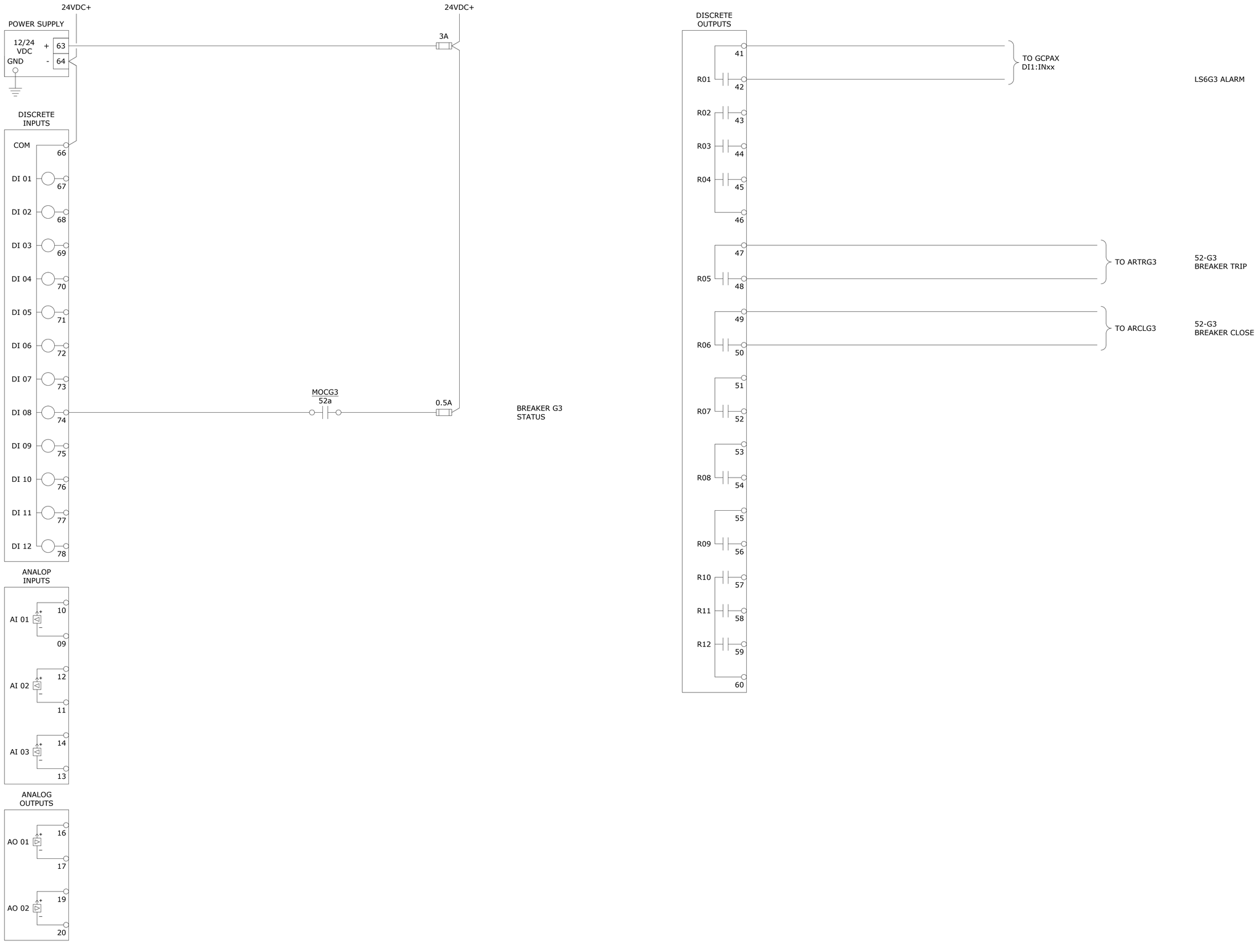

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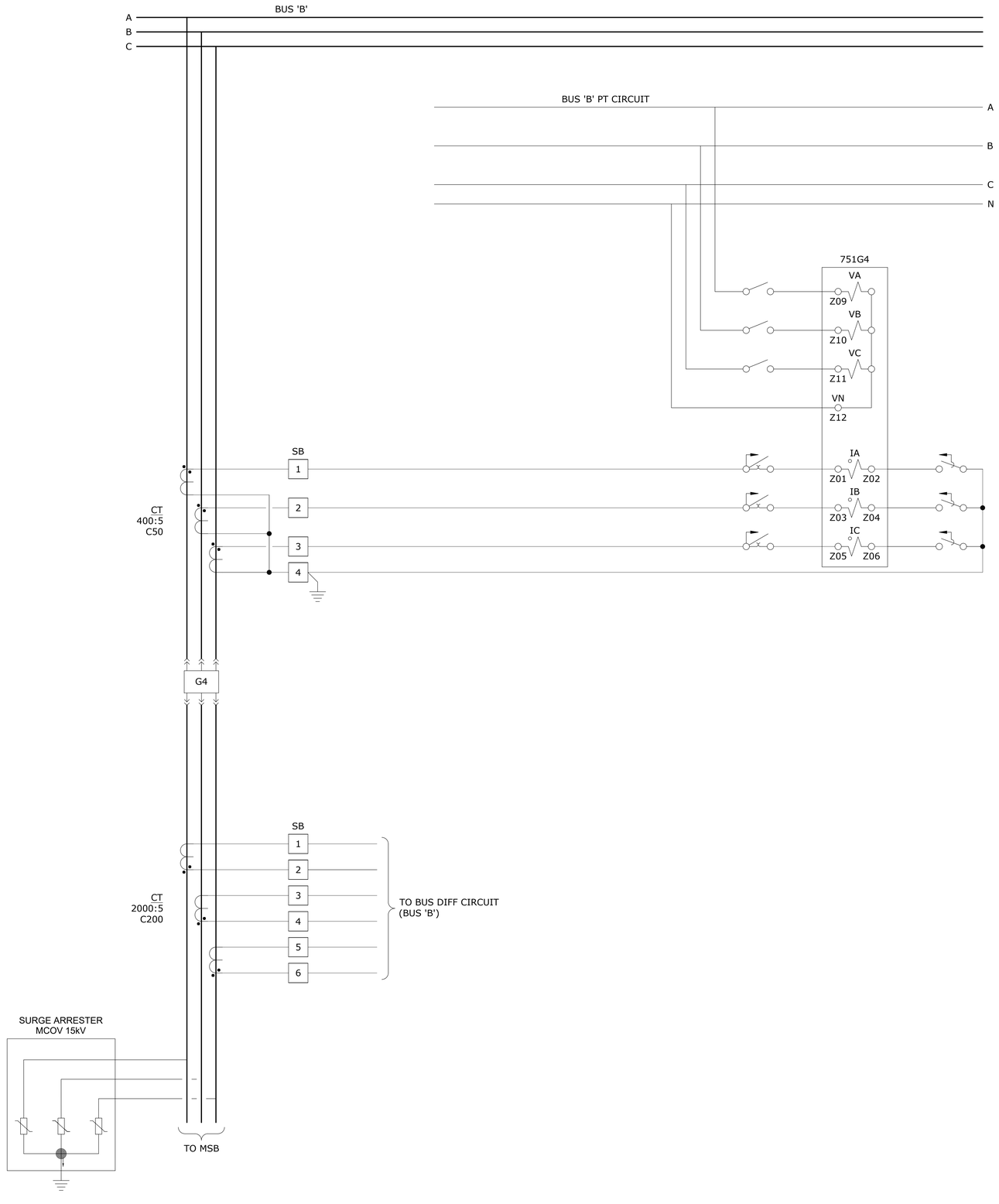
Sheet Title

SWITCHGEAR 'GCP' BREAKER - G3 EASYGEN CONTROLLER

Sheet No.

IP-3503D-1



NOTES:

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G4 THREE LINE

Sheet No.

IP-3504B-1

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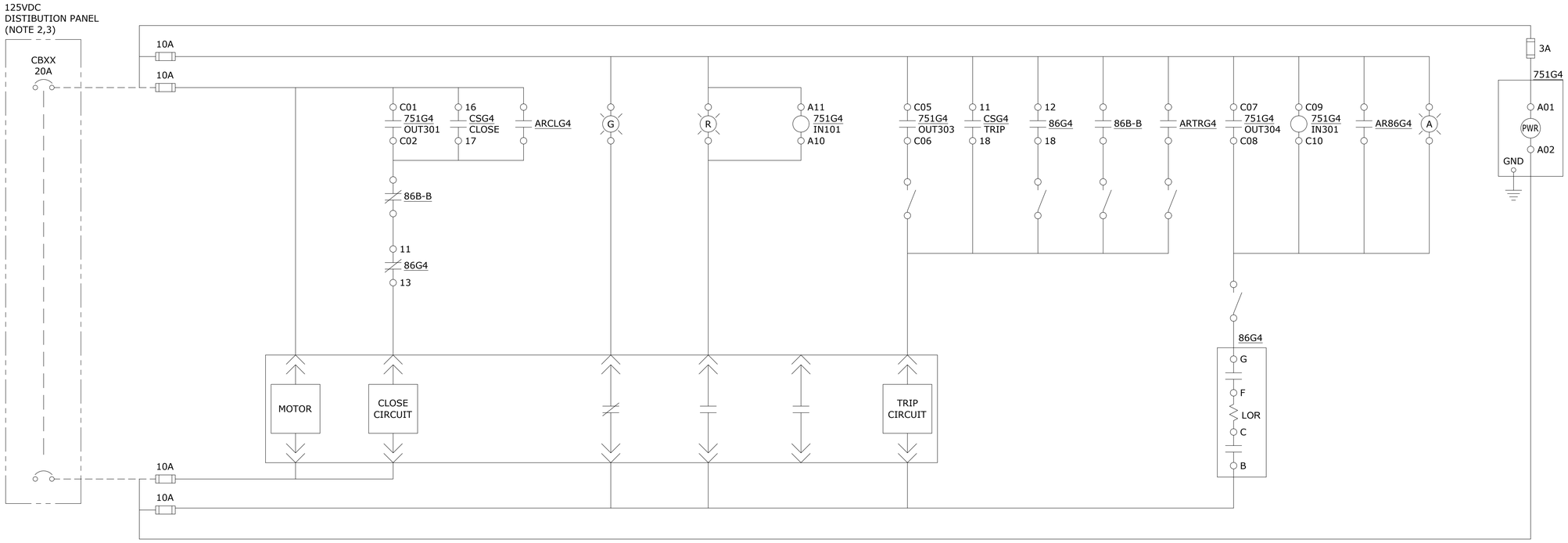
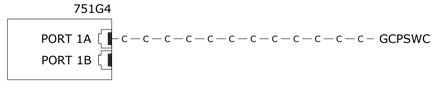
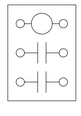




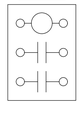
ARTRG4



TO 24VDC DISTRIBUTION

TO 52-G4 TRIP CIRCUIT

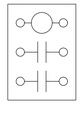
ARCLG4



TO 24VDC DISTRIBUTION

TO 52-G4 CLOSE CIRCUIT

AR86G4



TO 24VDC DISTRIBUTION

86G4
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G4 CLOSE PERMISSIVE
	12 — 18	X		52-G4 TRIP
	15 — 17		X	
	14 — 16	X		
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG4
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G4 TRIP
	16 — 17			X	52-G4 CLOSE

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE 125VDC BATTERY CHARGER, BATTERIES AND DISTRIBUTION PANEL.
3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.

LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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PROJECT NO. 24231

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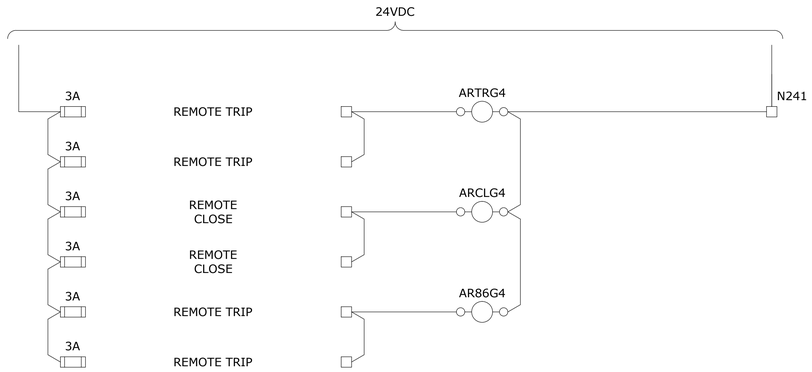
PHASE 2 - IFC 2026.05.27

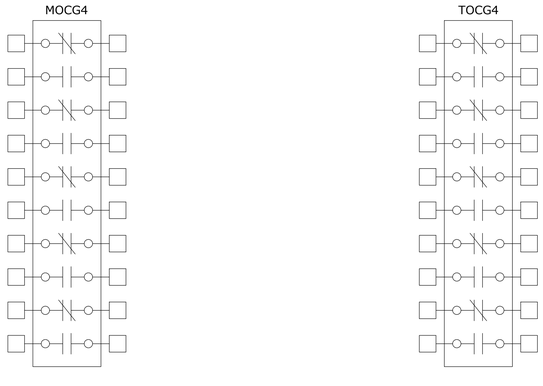
Sheet Title

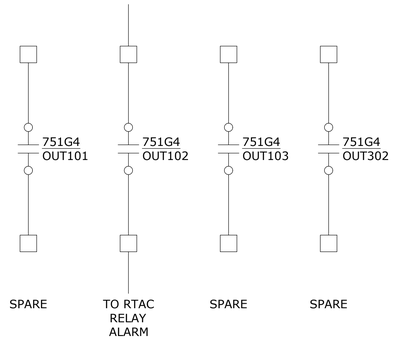
SWITCHGEAR 'GCP' BREAKER - G4 DC SCHEMATIC

Sheet No.

IP-3504C-1







NOTES:

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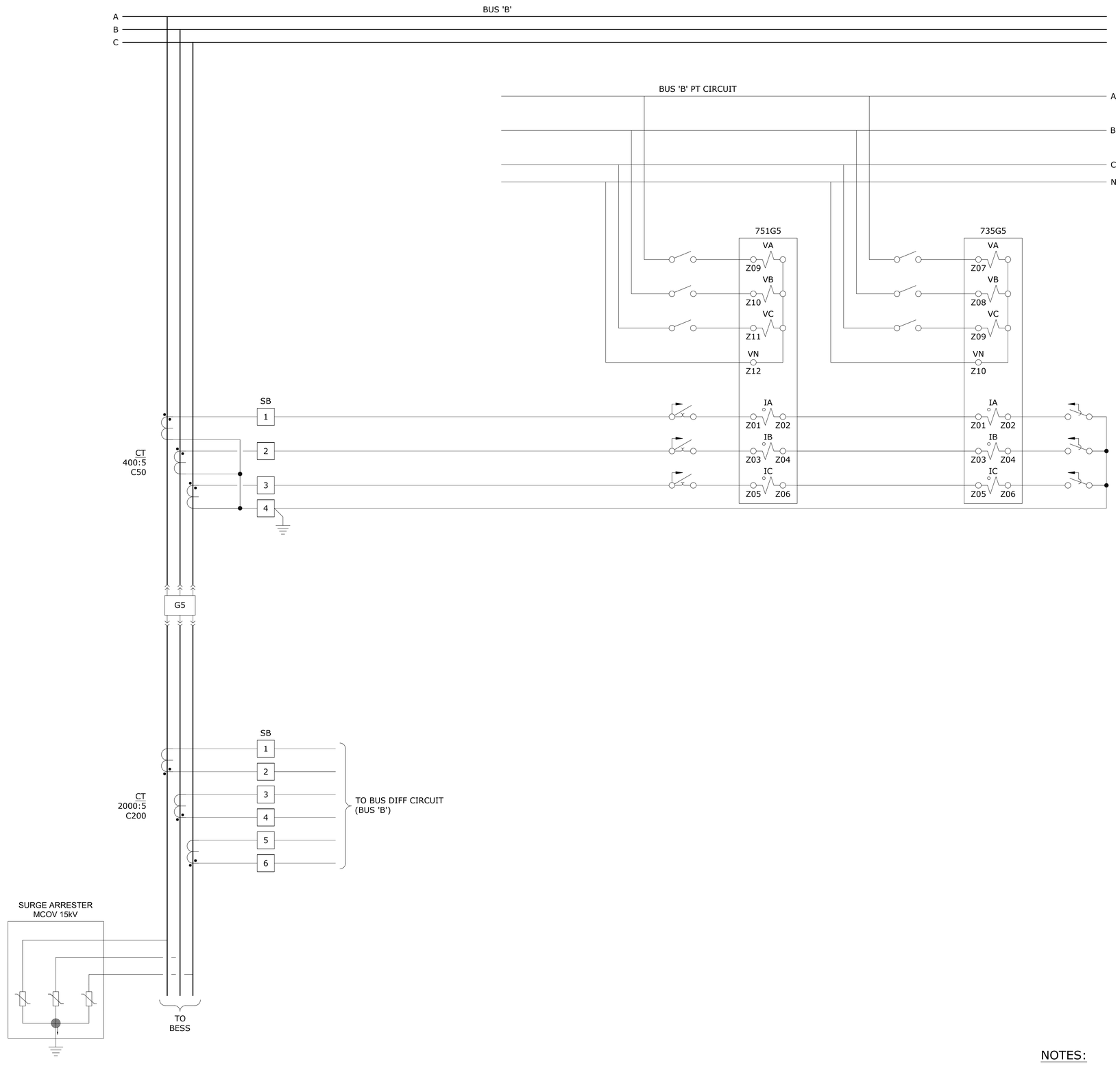

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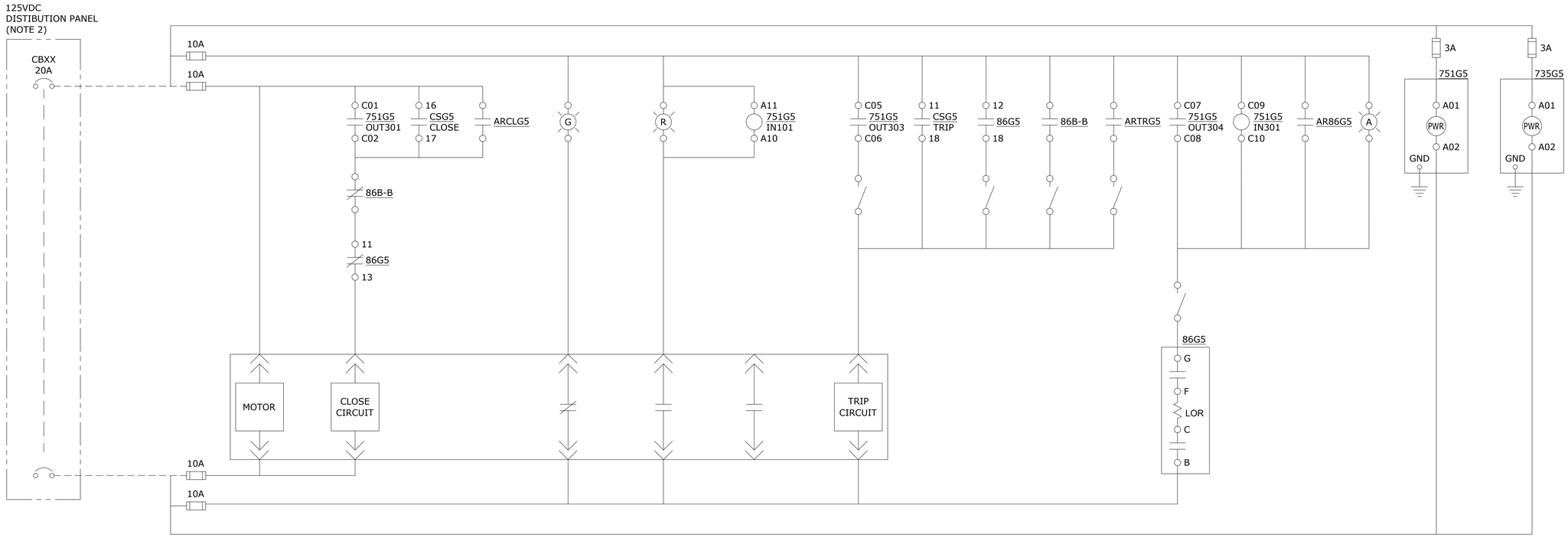
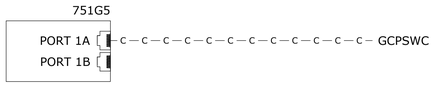
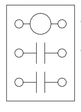
Sheet Title
SWITCHGEAR 'GCP' BREAKER - G5 THREE LINE

Sheet No.
IP-3505B-1





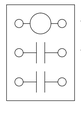
ARTRG5



TO 24VDC DISTRIBUTION

TO 52-G5 TRIP CIRCUIT

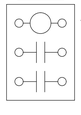
ARCLG5



TO 24VDC DISTRIBUTION

TO 52-G5 CLOSE CIRCUIT

AR86G5



TO 24VDC DISTRIBUTION

86G5
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G5 CLOSE PERMISSIVE
	12 — 18	X		52-G5 TRIP
	15 — 17		X	
	14 — 16	X		
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG5
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G5 TRIP
	16 — 17			X	52-G5 CLOSE

NOTES:

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LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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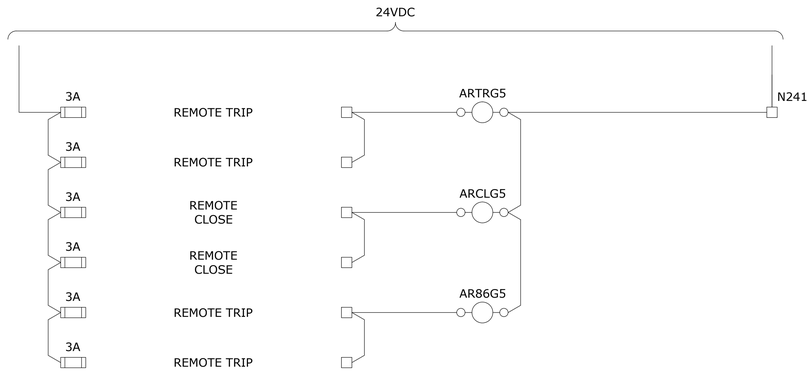
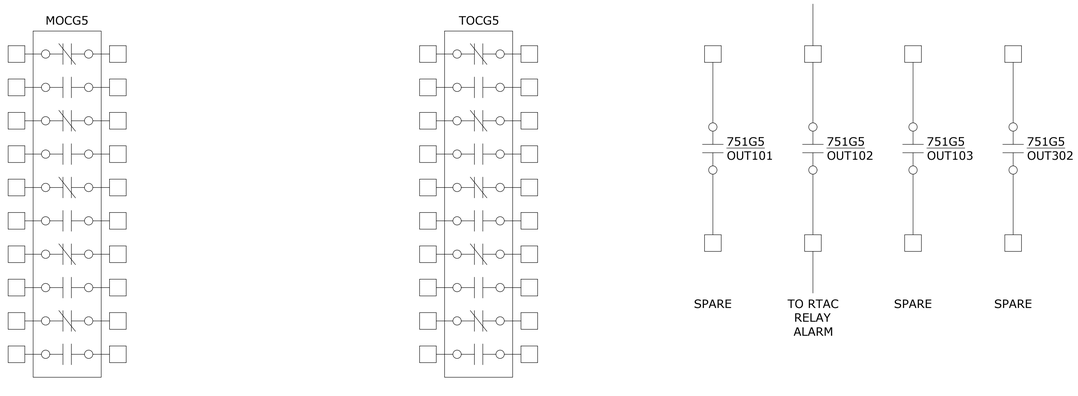
Sheet Title

SWITCHGEAR 'GCP' BREAKER - G5 DC SCHEMATIC

Sheet No.

IP-3505C-1





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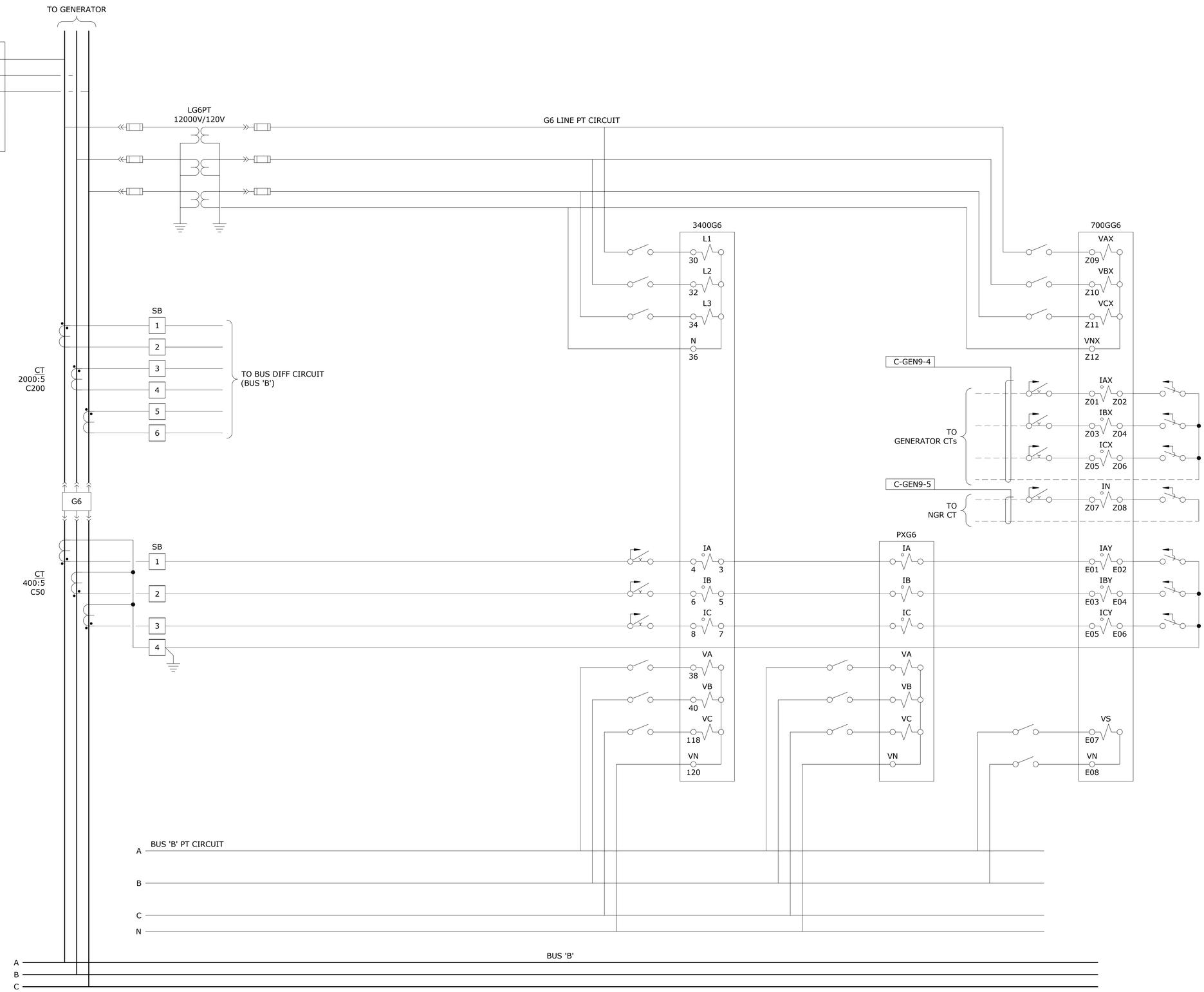

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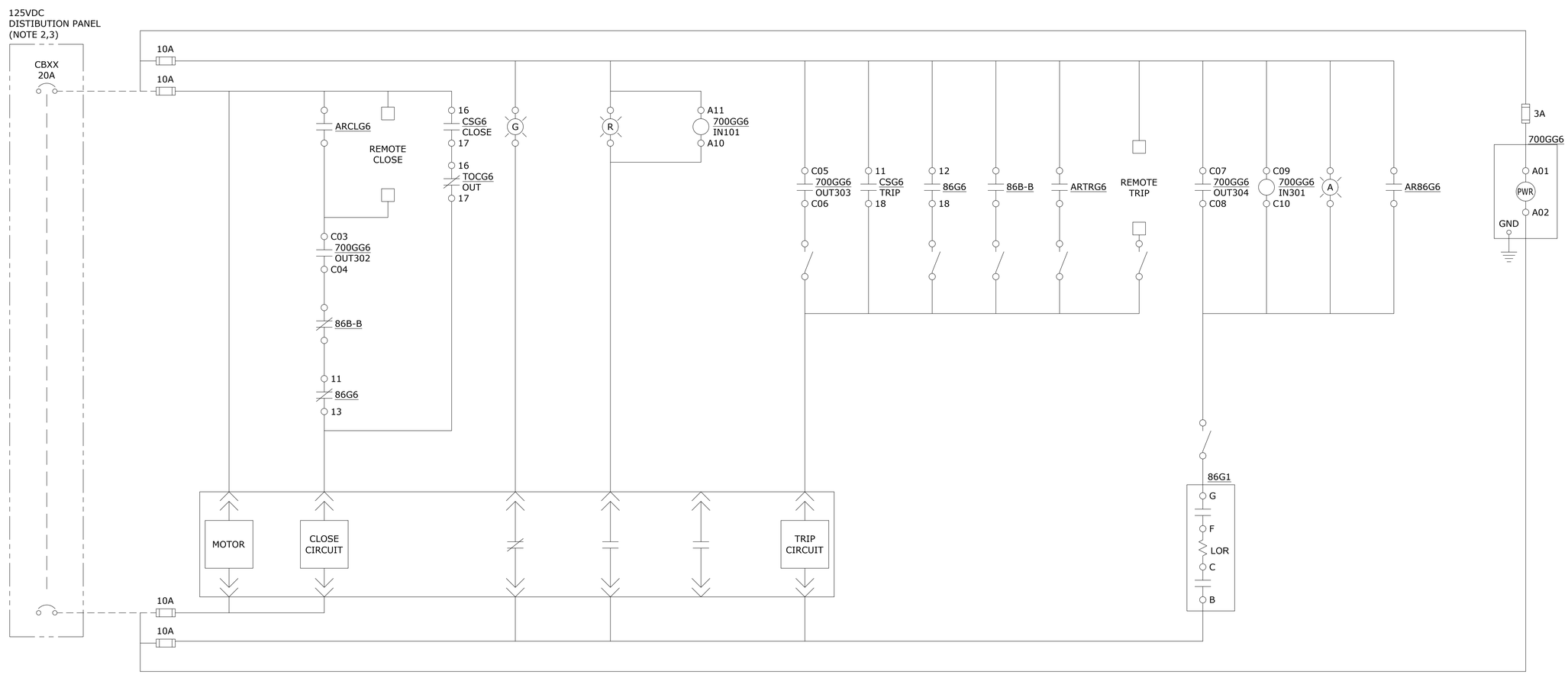
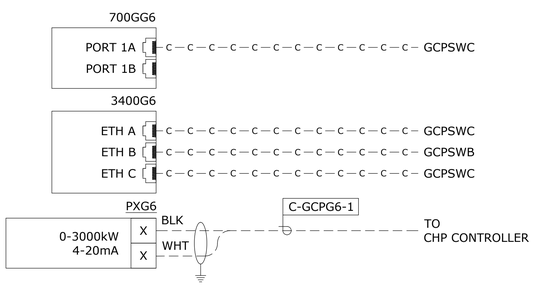
Sheet Title

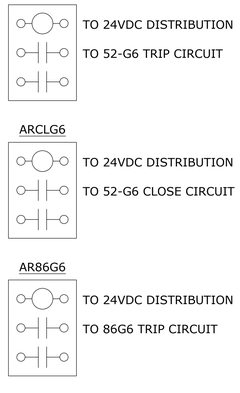
SWITCHGEAR 'GCP' BREAKER - G6 THREE LINE

Sheet No.

IP-3506B-1







86G6
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G6 CLOSE PERMISSIVE
	12 — 18	X		52-G6 TRIP
	15 — 17		X	
	14 — 16	X		TO RTAC
2	21 — 23		X	
	22 — 28	X		TO GEN-9 CUSTOMER STOP
	25 — 27		X	
	24 — 26	X		

CSG6
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G6 TRIP
	16 — 17			X	52-G6 CLOSE

NOTES:

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4. TOC CONTACTS SHOWN IN THE BREAKER RACKED OUT POSITION.

LEGEND

— c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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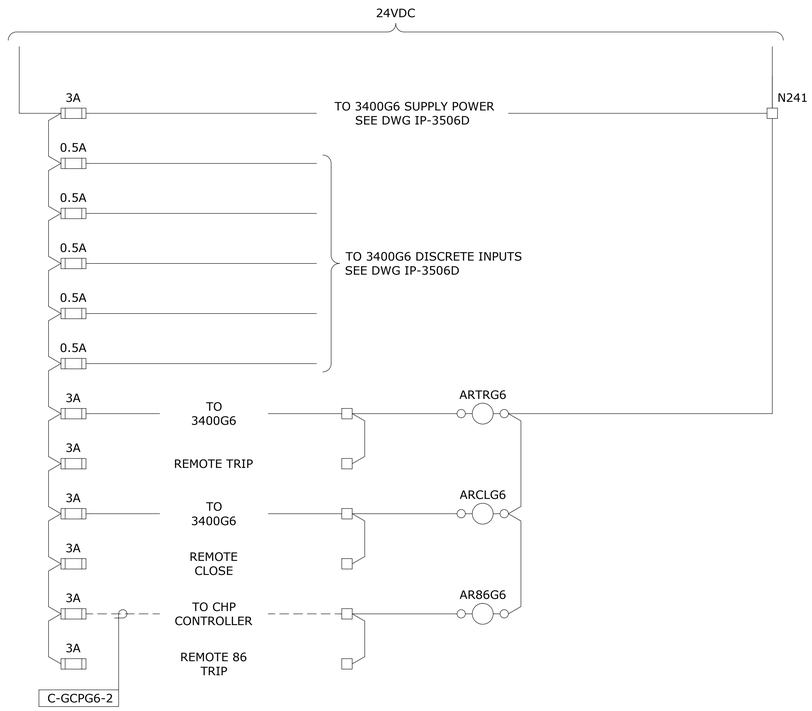

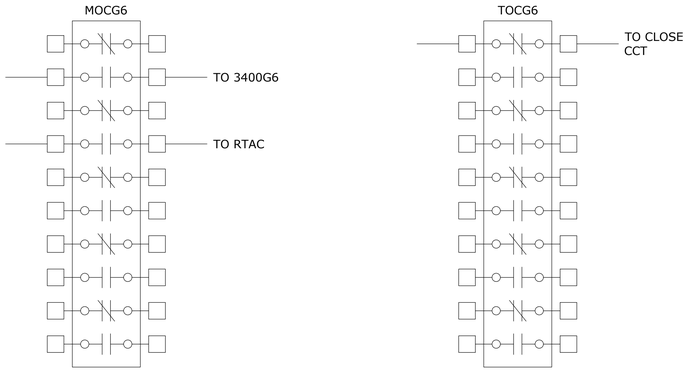

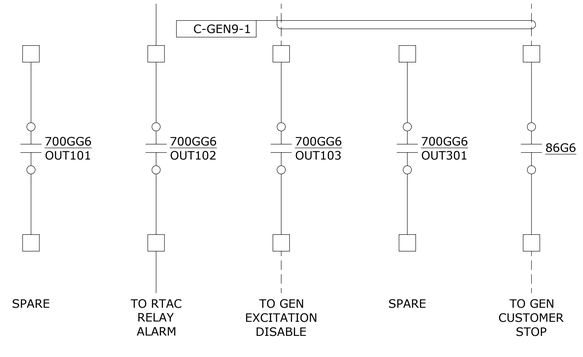

NOTES:

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

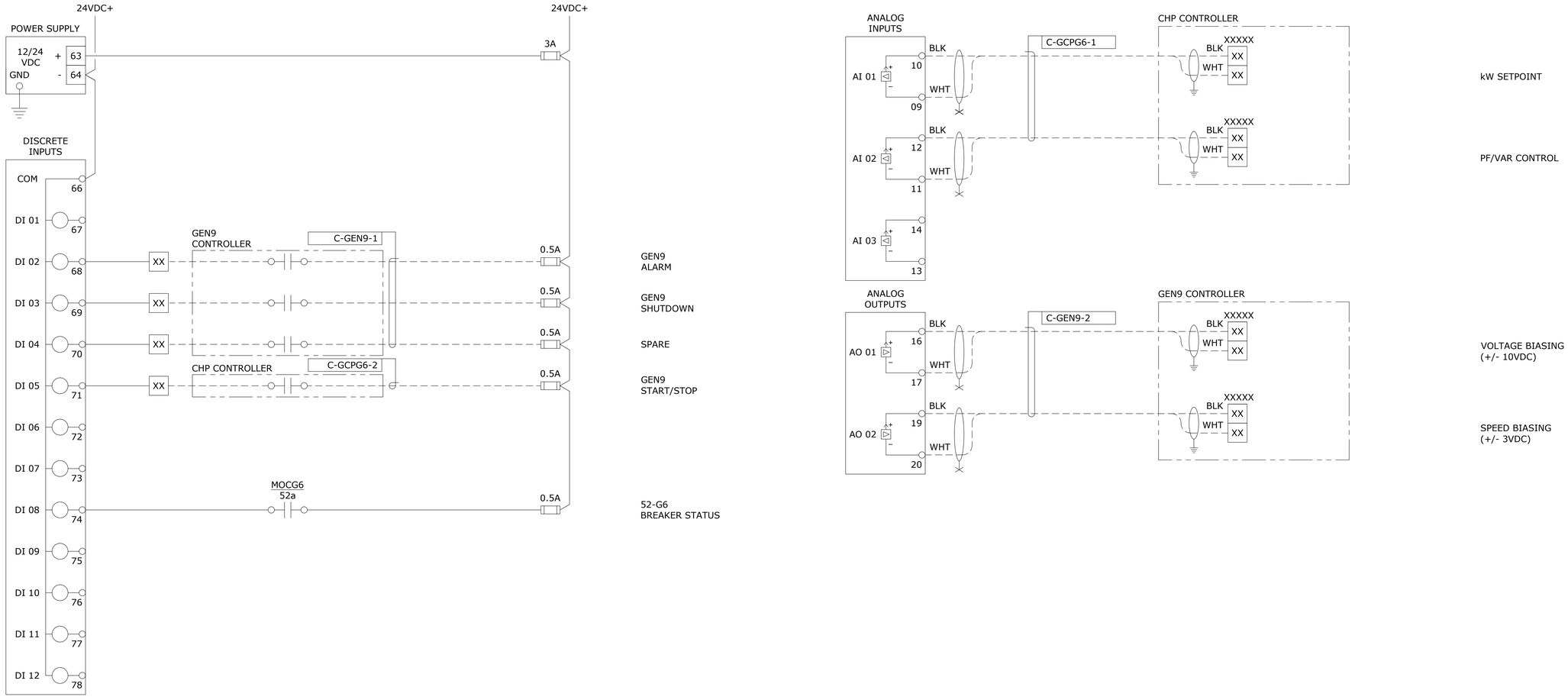
PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G6 DC SCHEMATIC

Sheet No.

IP-3506C-2



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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G6 EASYGEN CONTROLLER

Sheet No.

IP-3506D-1

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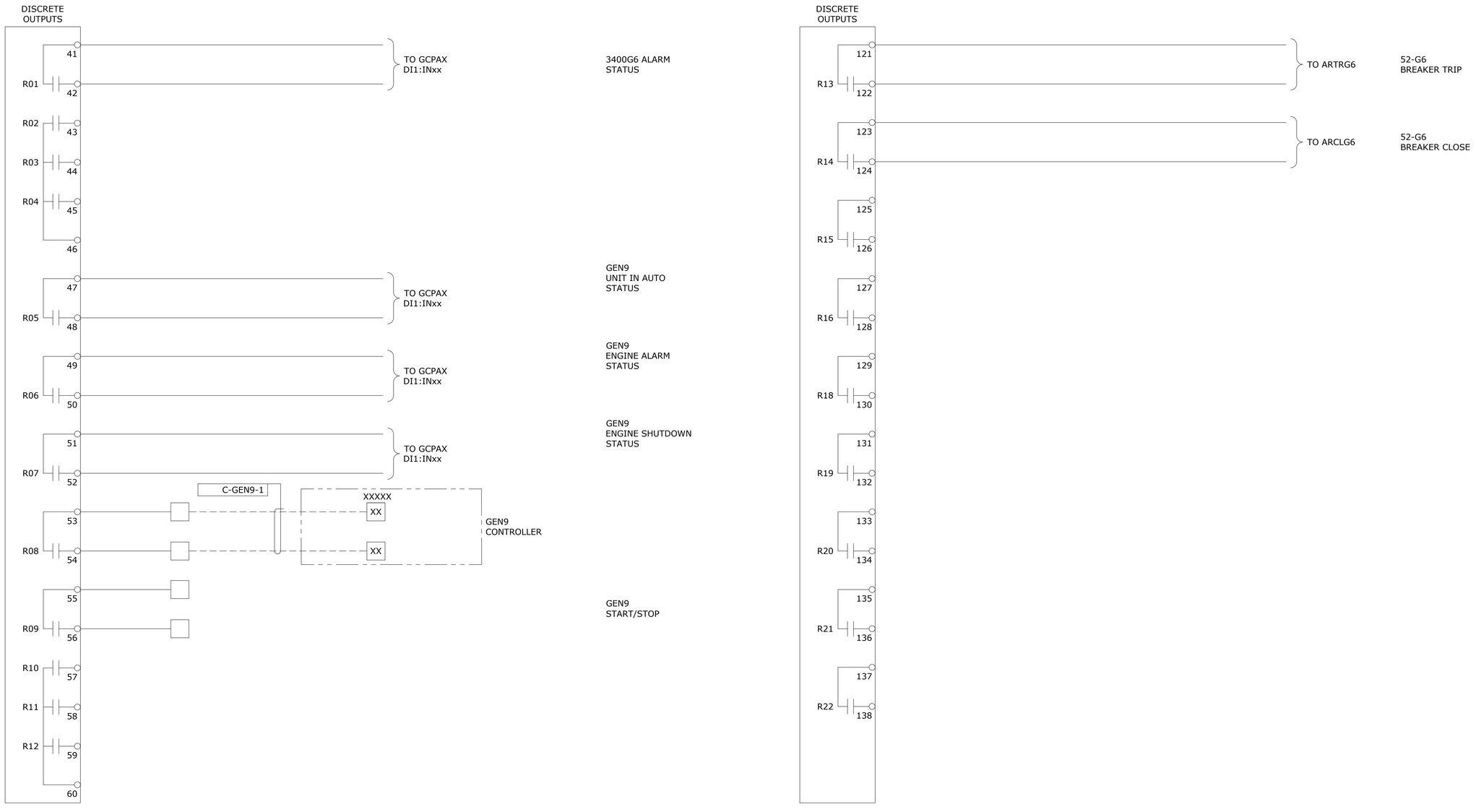

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Sheet No.

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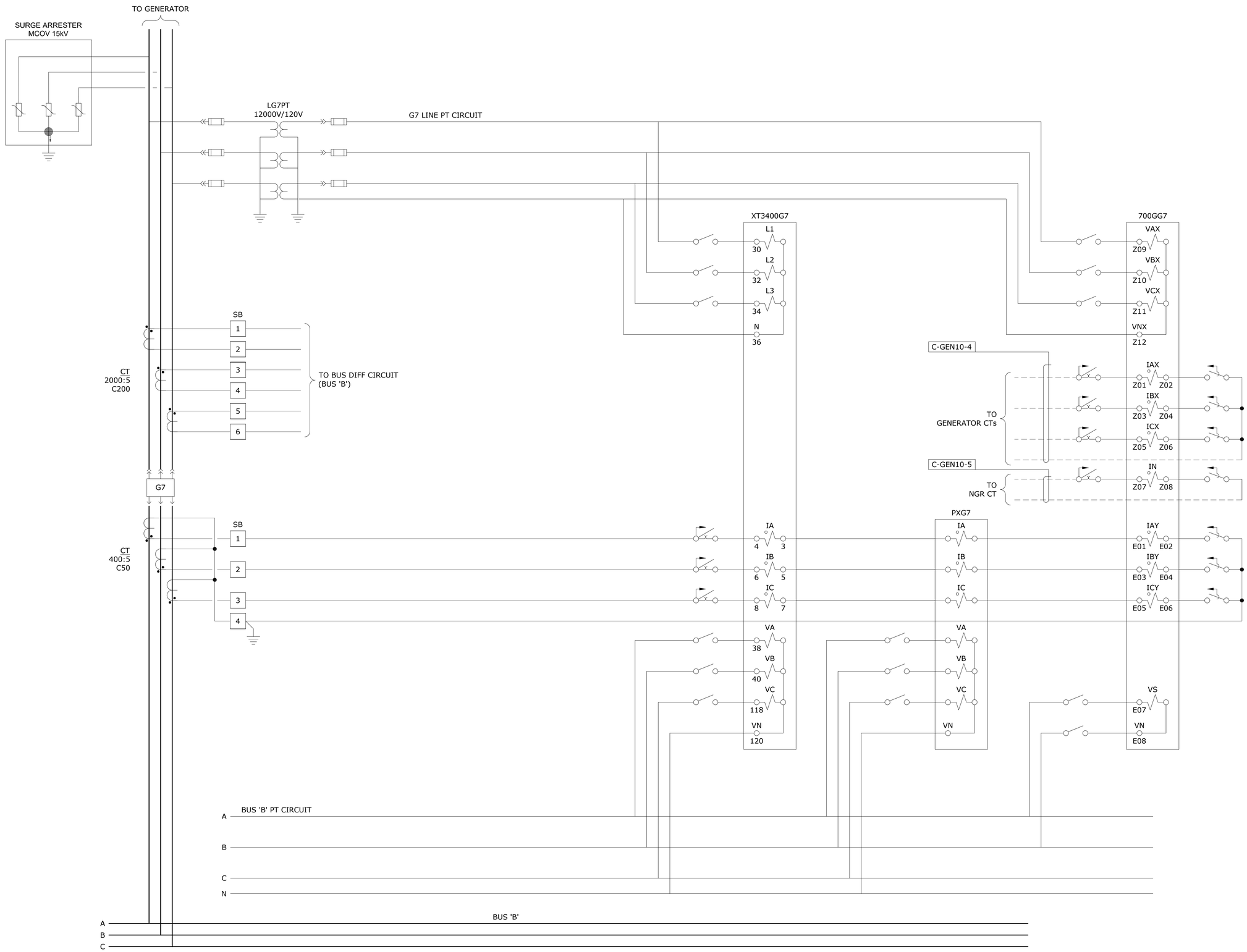

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PROJECT NO. 24231

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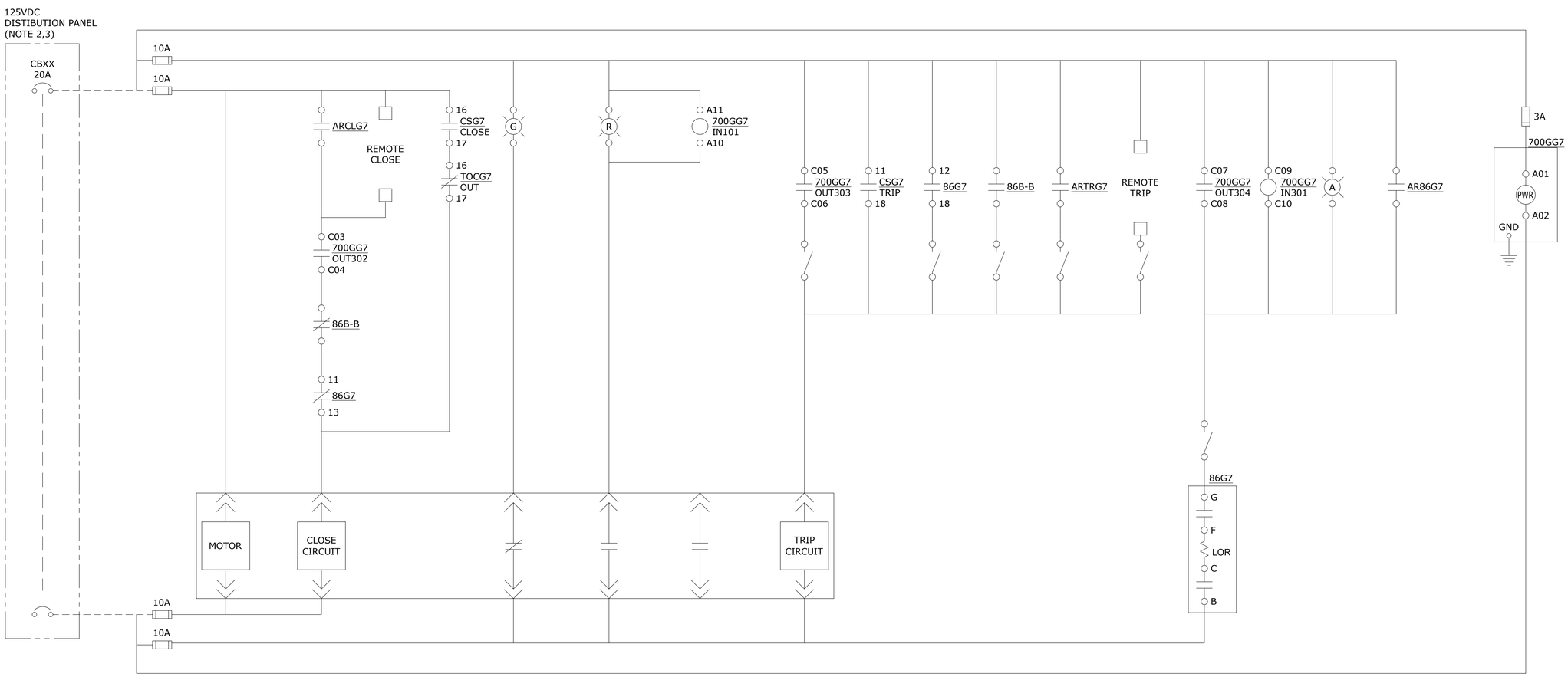
PHASE 2 - IFC 2026.05.27

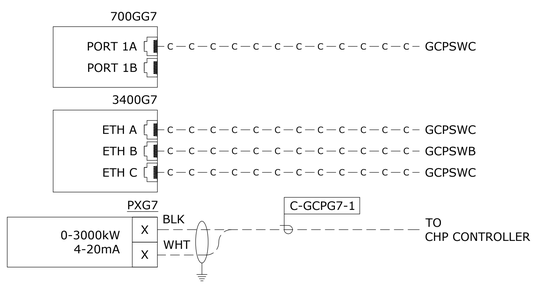
Sheet Title

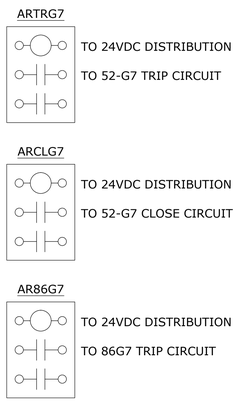
SWITCHGEAR 'GCP' BREAKER - G7 THREE LINE

Sheet No.

IP-3507B-1







86G7
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G7 CLOSE PERMISSIVE
	12 — 18	X		52-G7 TRIP
	15 — 17		X	
	14 — 16	X		TO RTAC
2	21 — 23		X	
	22 — 28	X		TO GEN-10 CUSTOMER STOP
	25 — 27		X	
	24 — 26	X		

CSG7
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G7 TRIP
	16 — 17			X	52-G7 CLOSE

NOTES:

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4. TOC CONTACTS SHOWN IN THE BREAKER RACKED OUT POSITION.

LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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PROJECT NO. 24231

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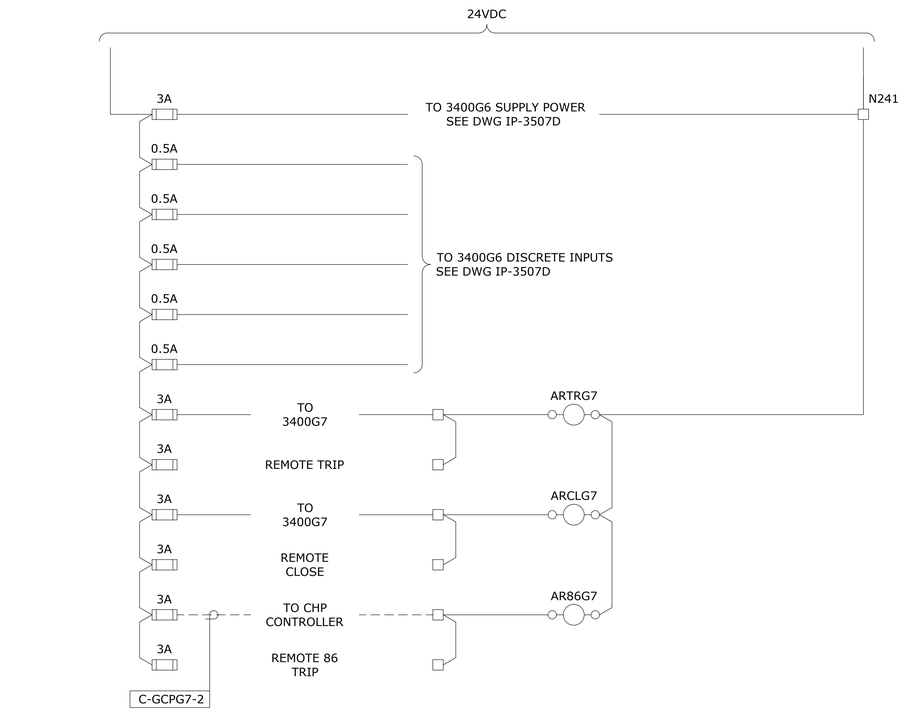
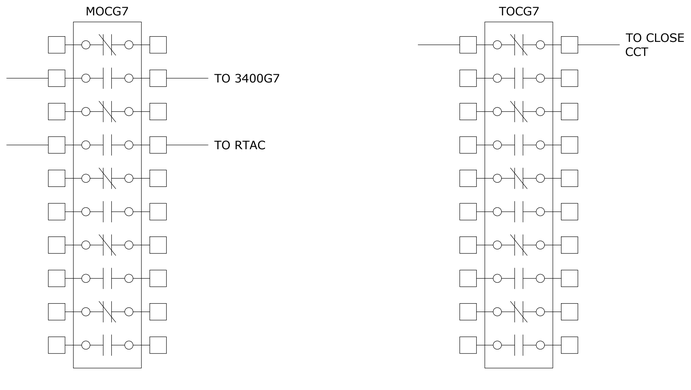
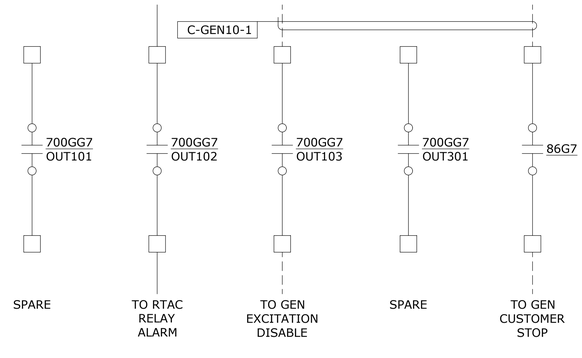
PHASE 2 - IFC 2026.05.27

Sheet Title
SWITCHGEAR 'GCP' BREAKER - G7 DC SCHEMATIC

Sheet No.
IP-3507C-1







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SWITCHGEAR 'GCP' BREAKER - G7 DC SCHEMATIC

Sheet No.

IP-3507C-2

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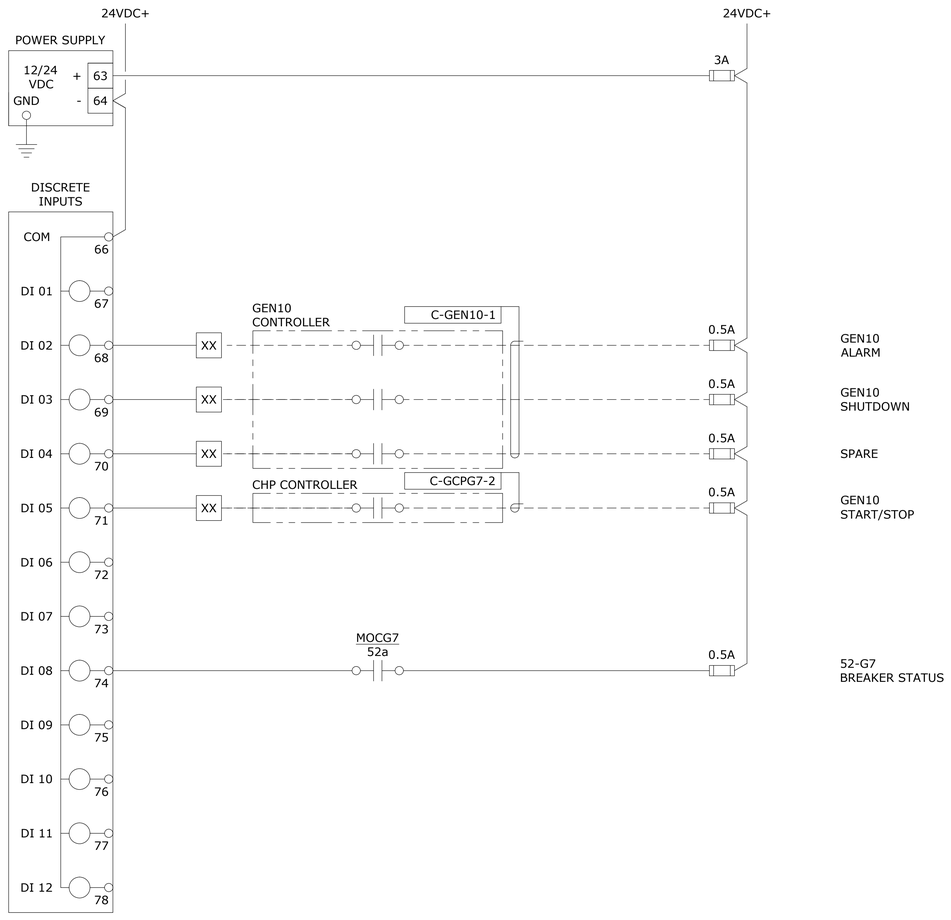

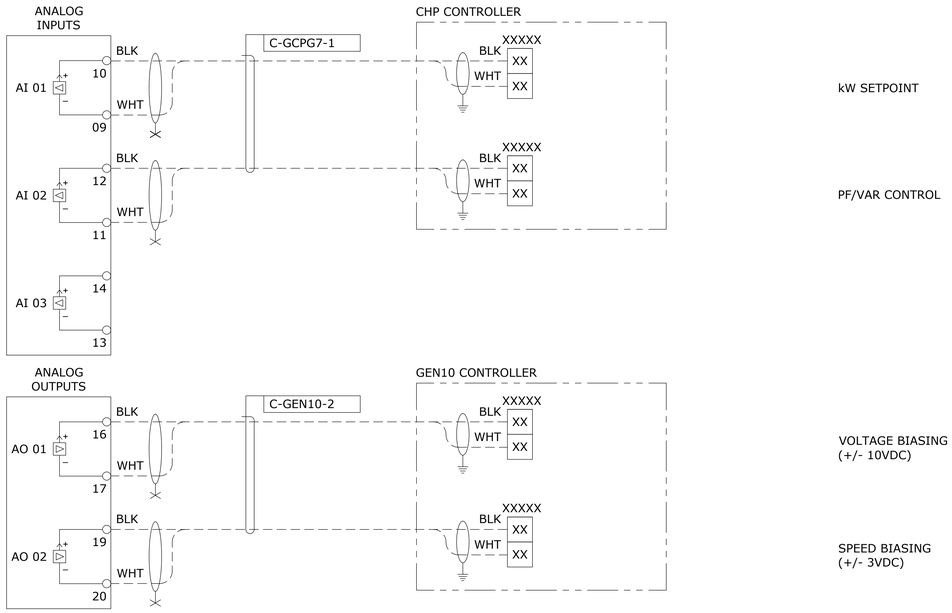

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PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G7 EASYGEN CONTROLLER

Sheet No.

IP-3507D-1

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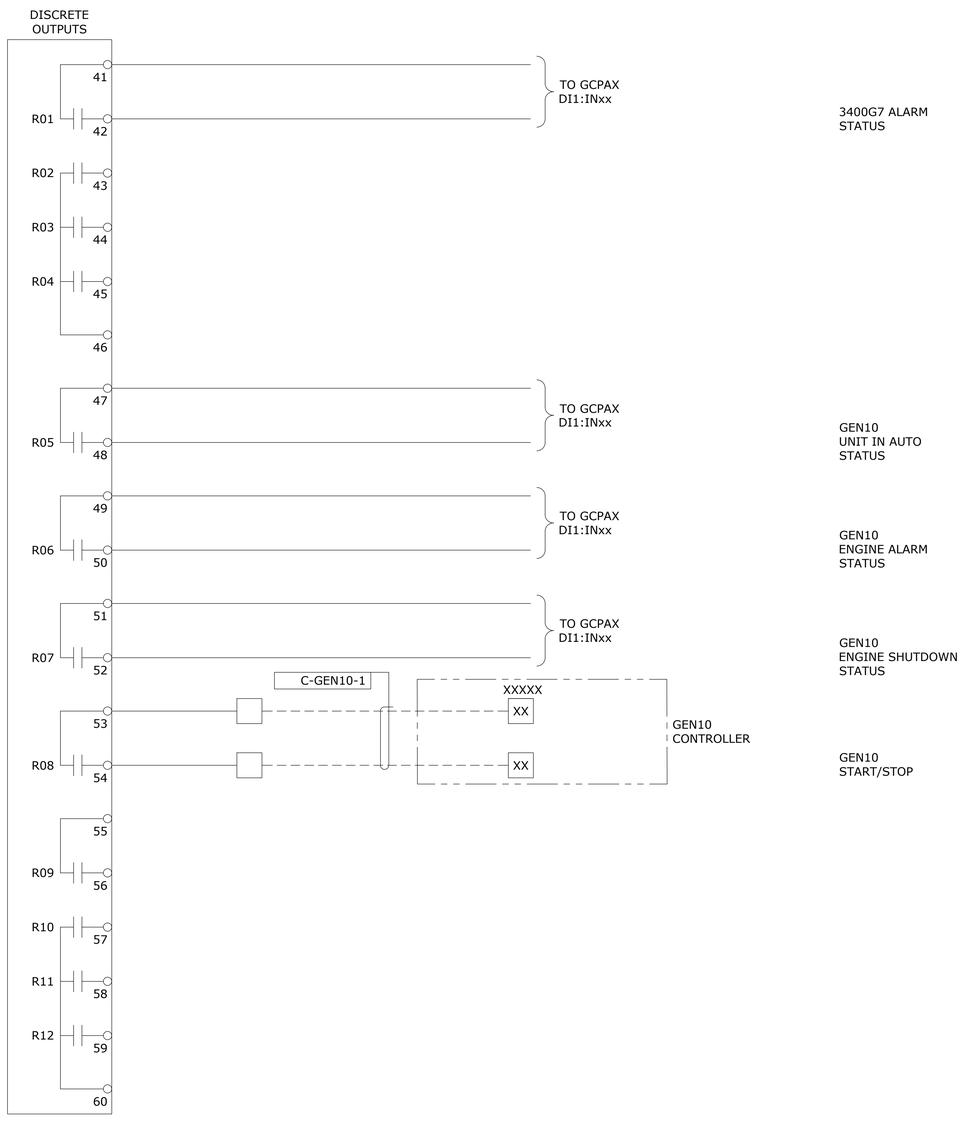

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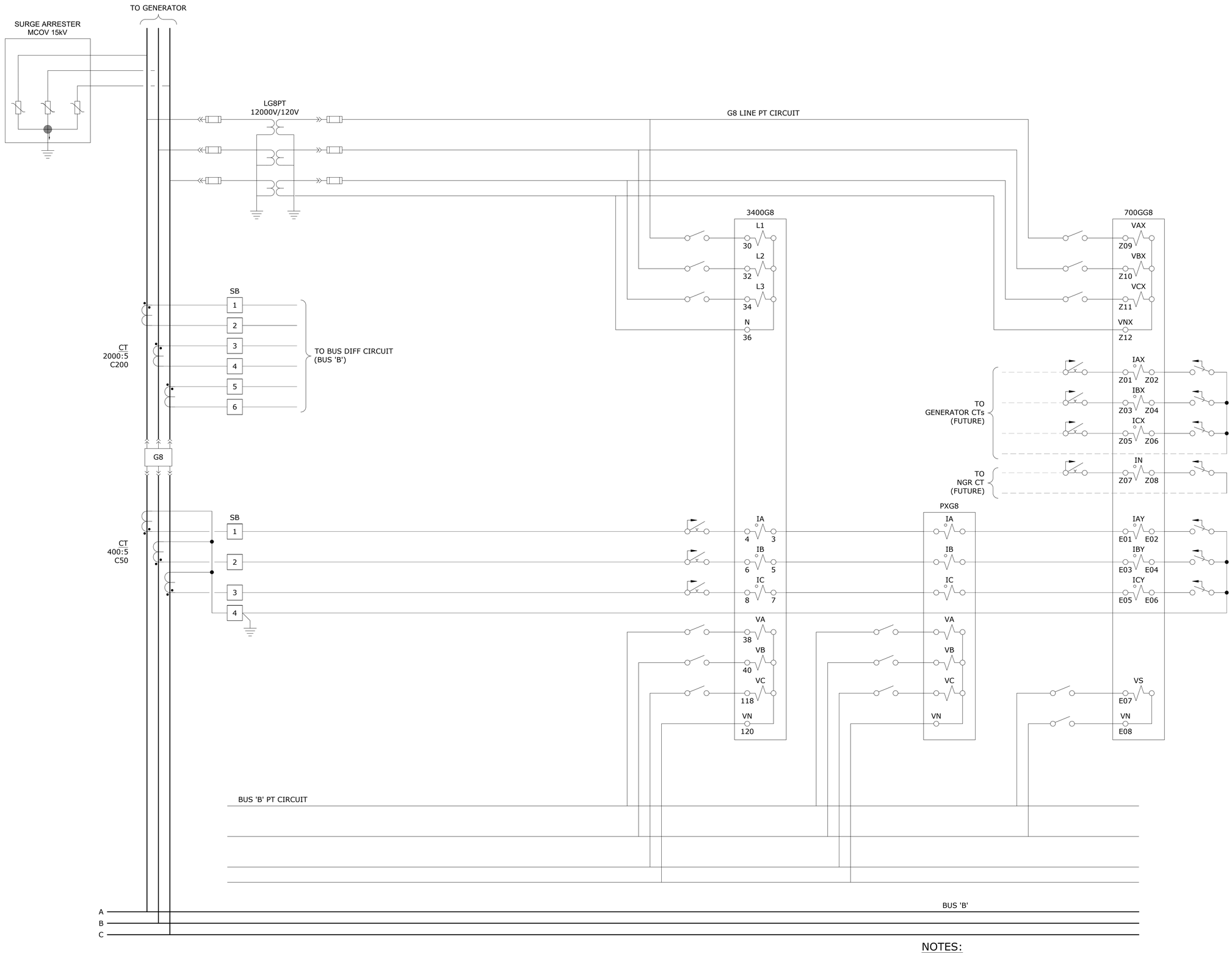
SWITCHGEAR 'GCP' BREAKER - G7 EASYGEN CONTROLLER

Sheet No.

IP-3507D-2



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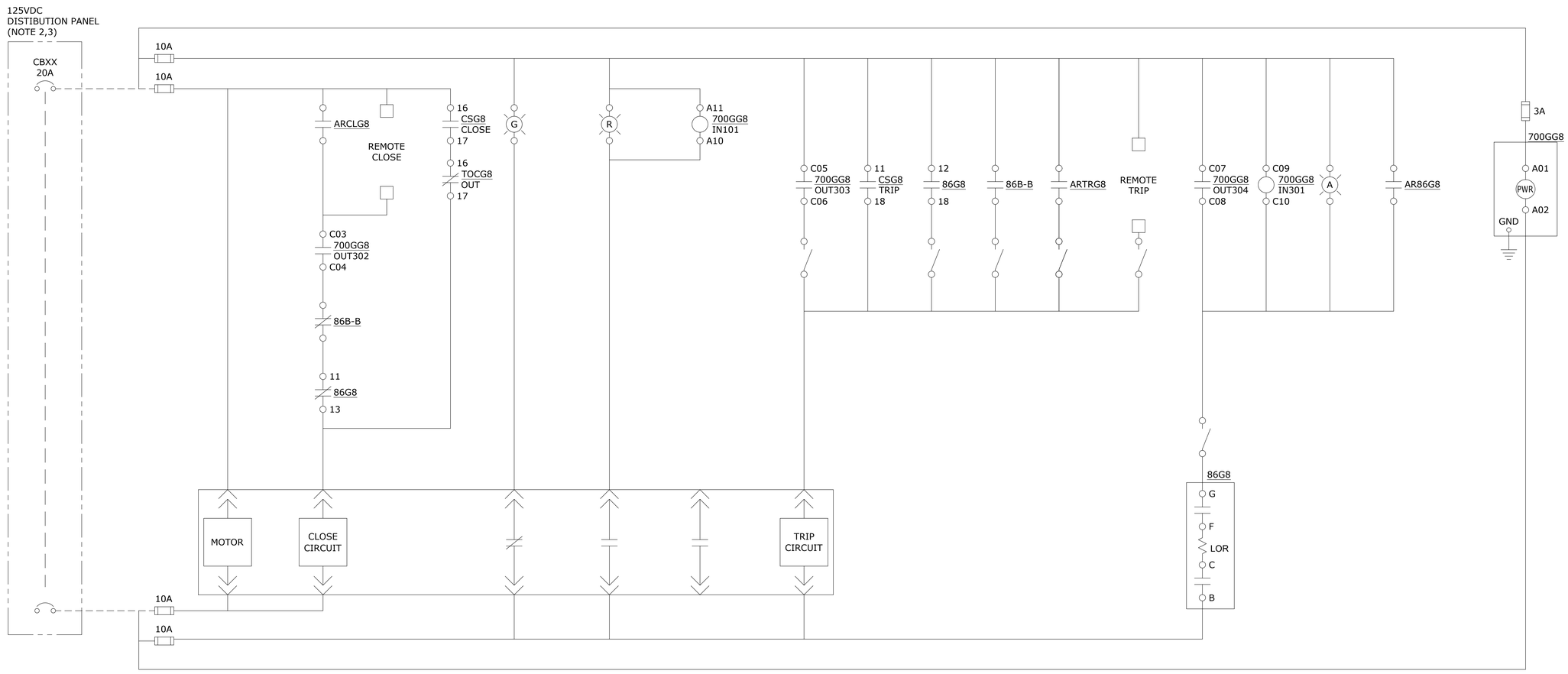
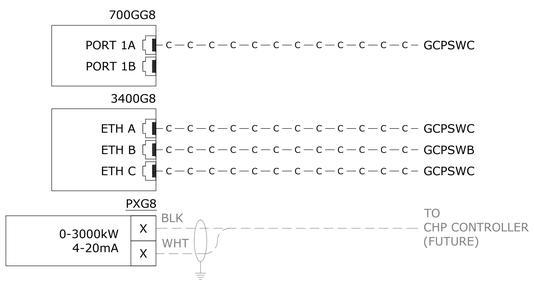
Sheet Title

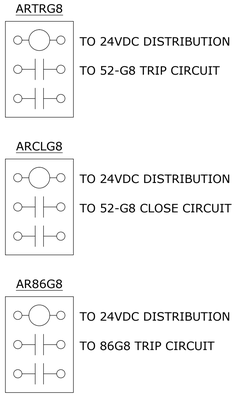
SWITCHGEAR 'GCP' BREAKER - G8 THREE LINE

Sheet No.

IP-3508B-1







86G8
LOCK OUT RELAY

DECK	POSITION	TRIP	RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G8 CLOSE PERMISSIVE
	12 — 18	X		52-G8 TRIP
	15 — 17		X	
	14 — 16	X		TO RTAC
2	21 — 23		X	
	22 — 28	X		TO CG-11 CUSTOMER STOP (FUTURE)
	25 — 27		X	
	24 — 26	X		

CSG8
BREAKER CONTROL SWITCH

DECK	POSITION	TRIP	NORMAL	CLOSE	
1	11 — 18	X			52-G8 TRIP
	16 — 17			X	52-G8 CLOSE

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LEGEND

— c — c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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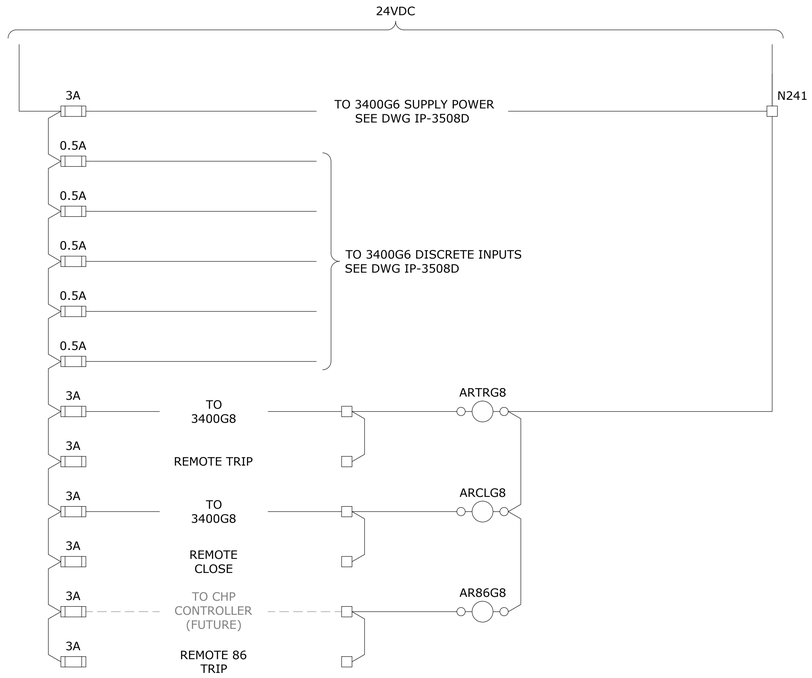

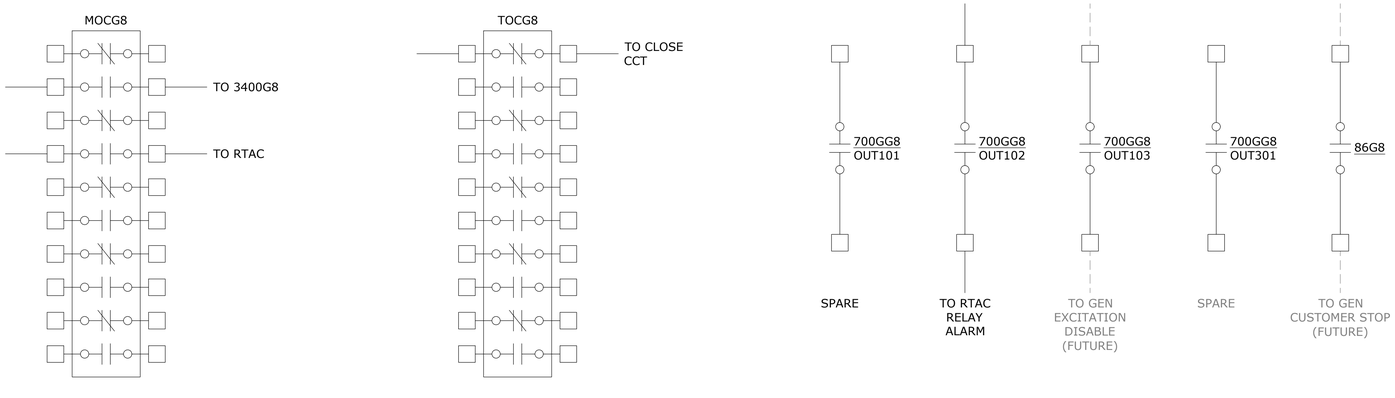

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G8 DC SCHEMATIC

Sheet No.

IP-3508C-2

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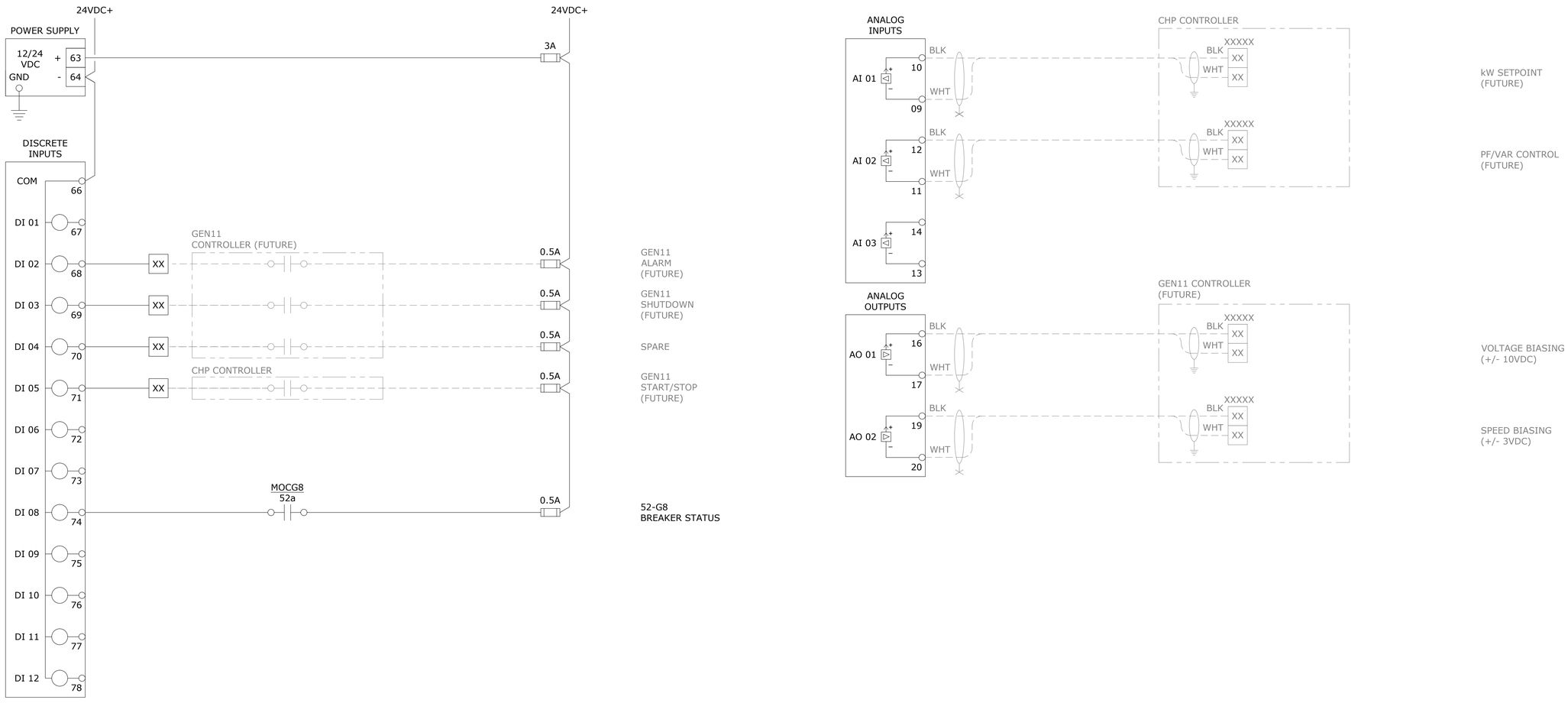

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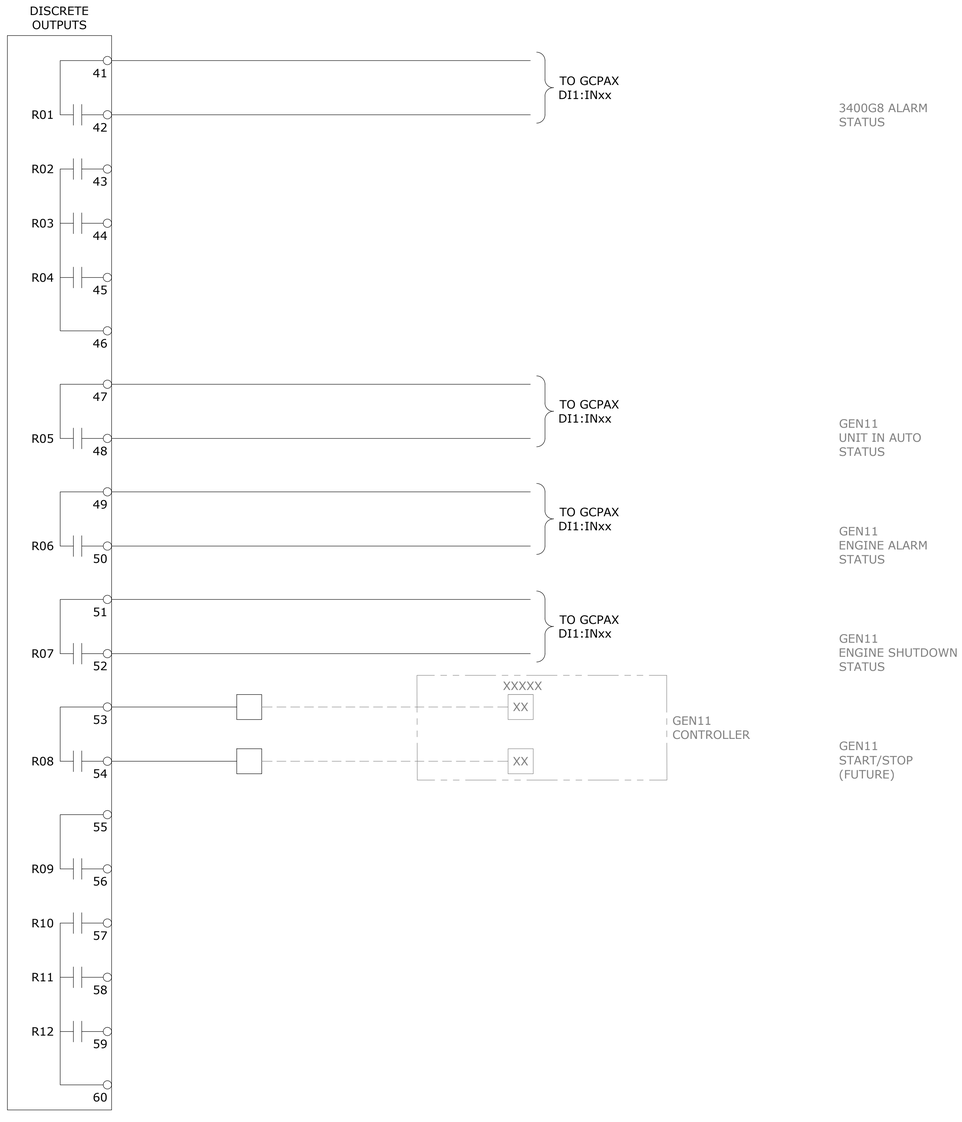
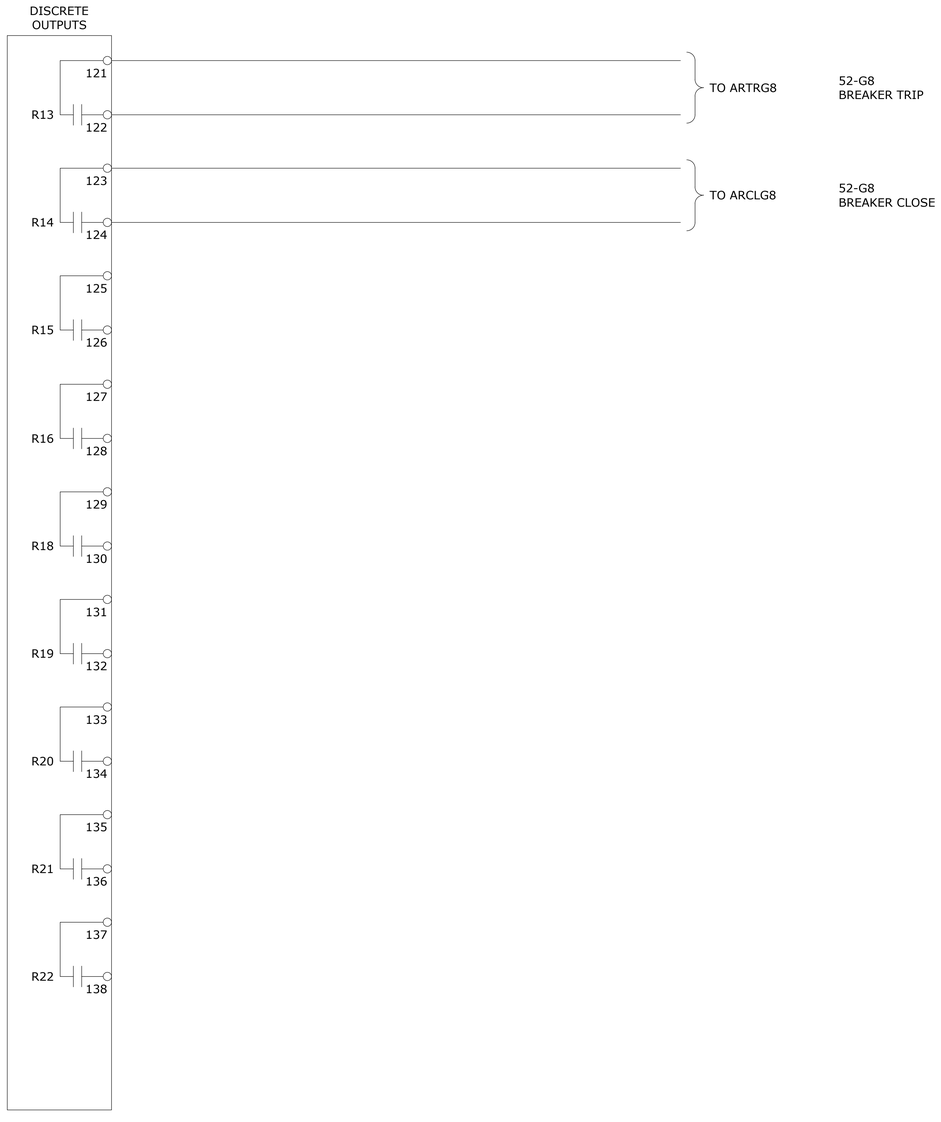
Sheet Title

SWITCHGEAR 'GCP' BREAKER - G8 EASYGEN CONTROLLER

Sheet No.

IP-3508D-1





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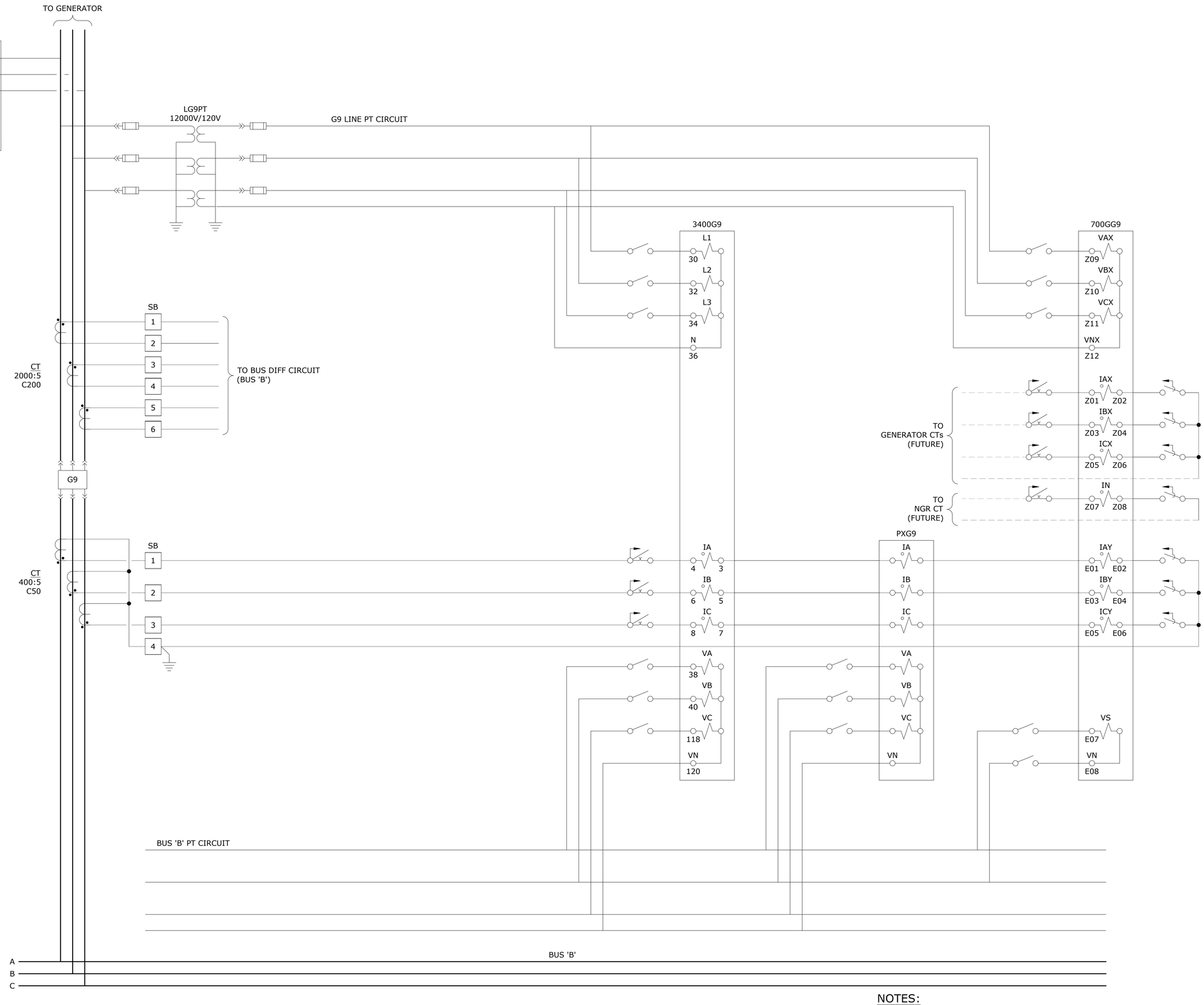

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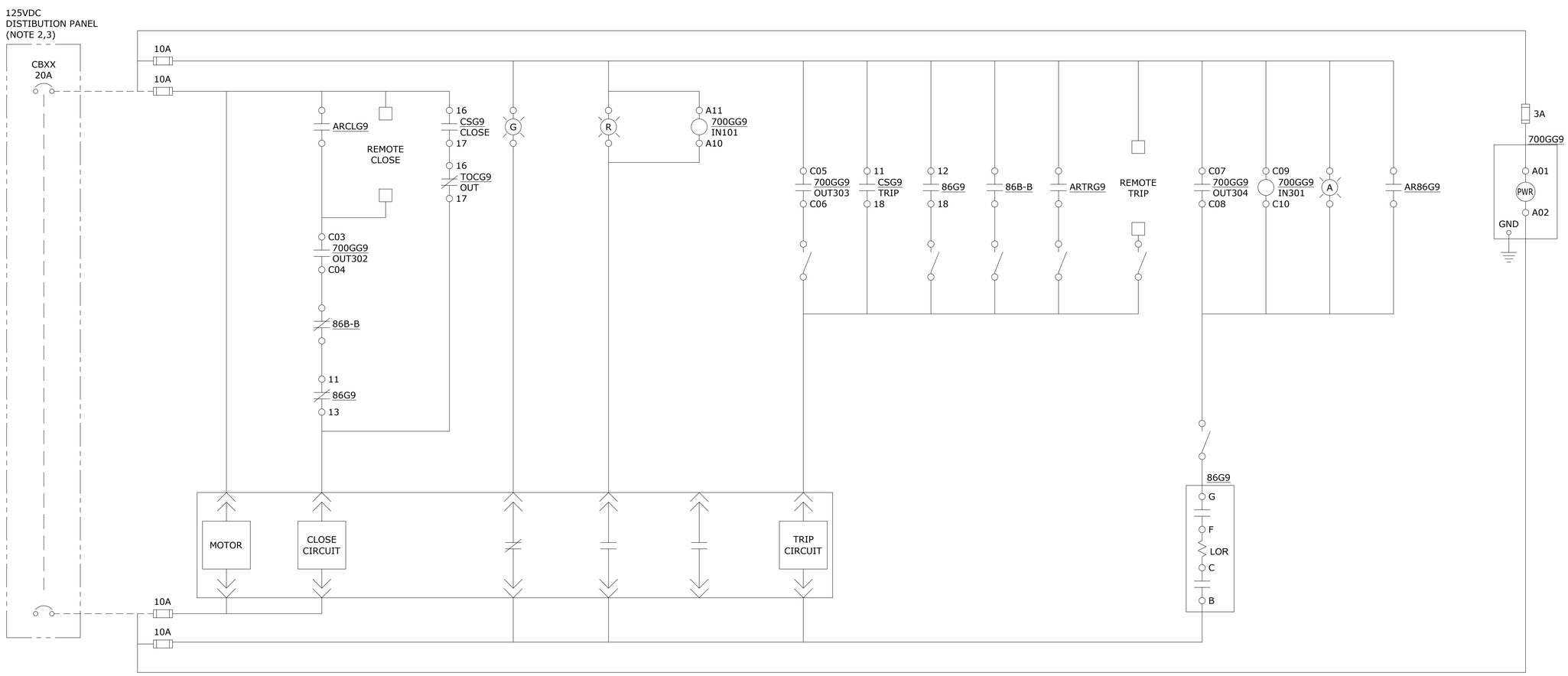
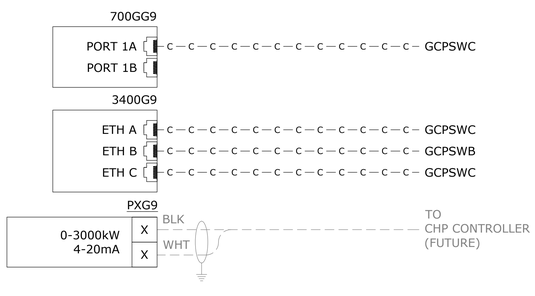
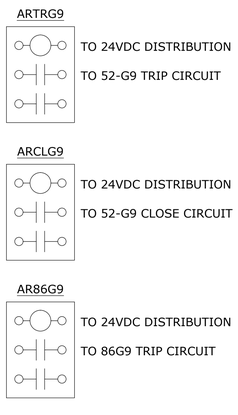
PHASE 2 - IFC 2026.05.27

Sheet Title
SWITCHGEAR 'GCP' BREAKER - G9 THREE LINE

Sheet No.
IP-3509B-1







86G9
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G9 CLOSE PERMISSIVE
	12 — 18	X		52-G9 TRIP
	15 — 17		X	
	14 — 16	X		TO RTAC
2	21 — 23		X	
	22 — 28	X		TO GEN-12 CUSTOMER STOP (FUTURE)
	25 — 27		X	
	24 — 26	X		

CSG9
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G9 TRIP
	16 — 17			X	52-G9 CLOSE

NOTES:

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3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.
4. TOC CONTACTS SHOWN IN THE BREAKER RACKED OUT POSITION.

LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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SWITCHGEAR 'GCP' BREAKER - G9 DC SCHEMATIC

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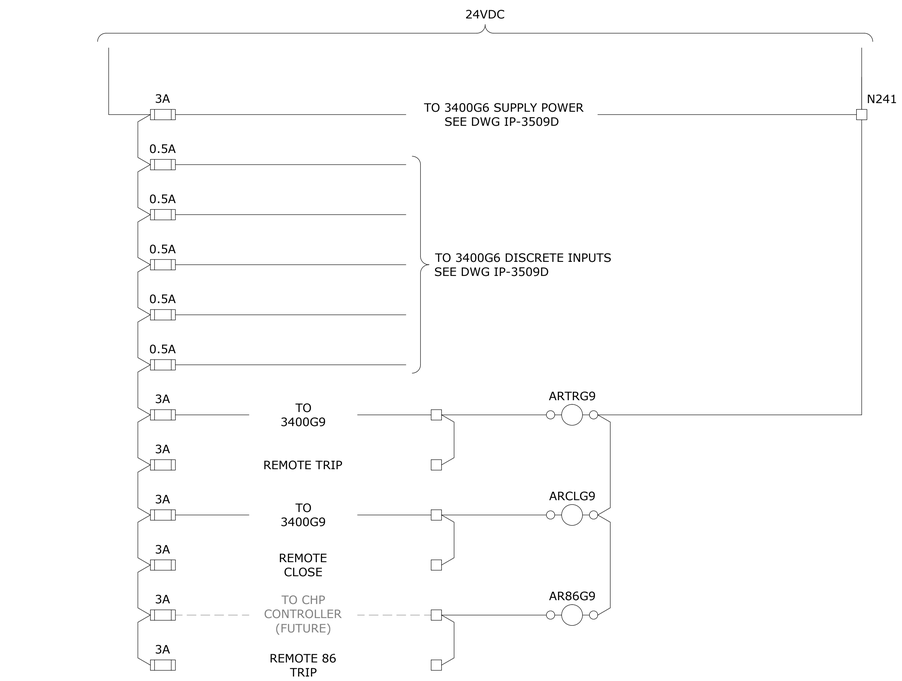
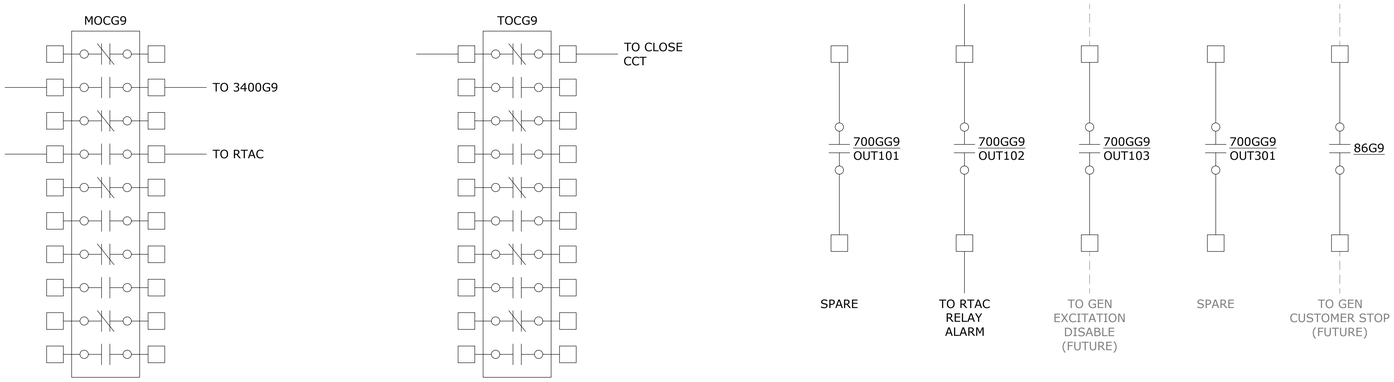
IP-3509C-1





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SWITCHGEAR 'GCP' BREAKER - G9 DC SCHEMATIC

Sheet No.

IP-3510C-2

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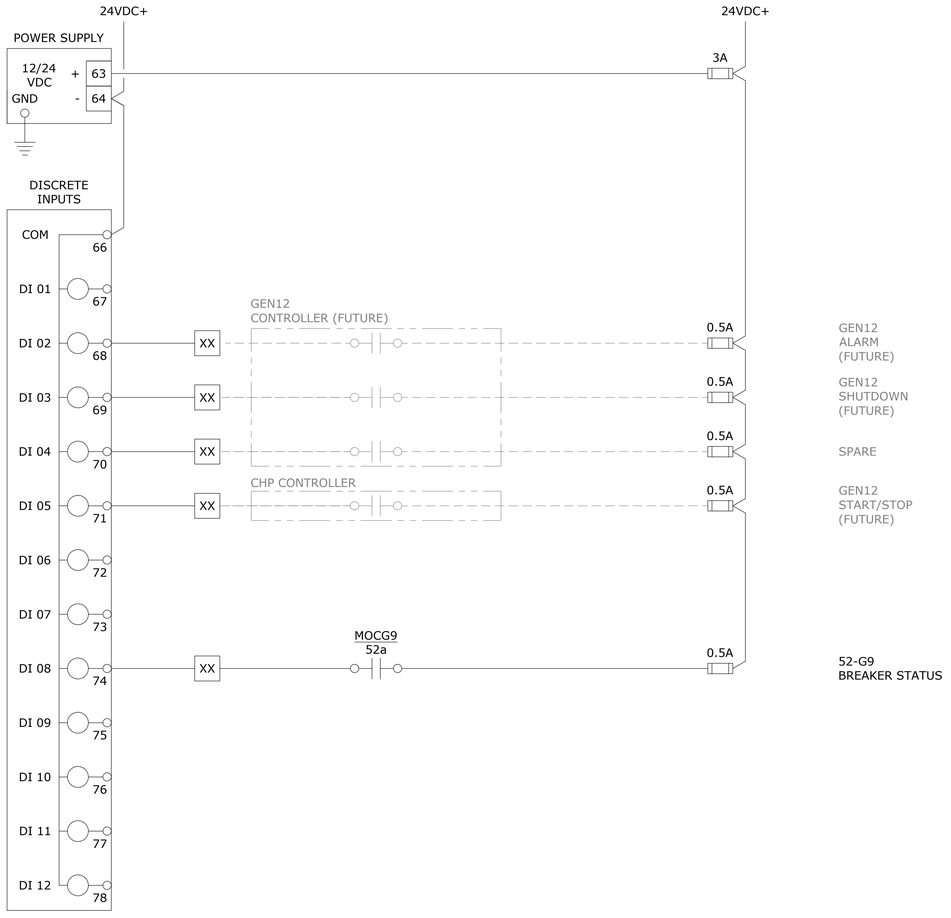

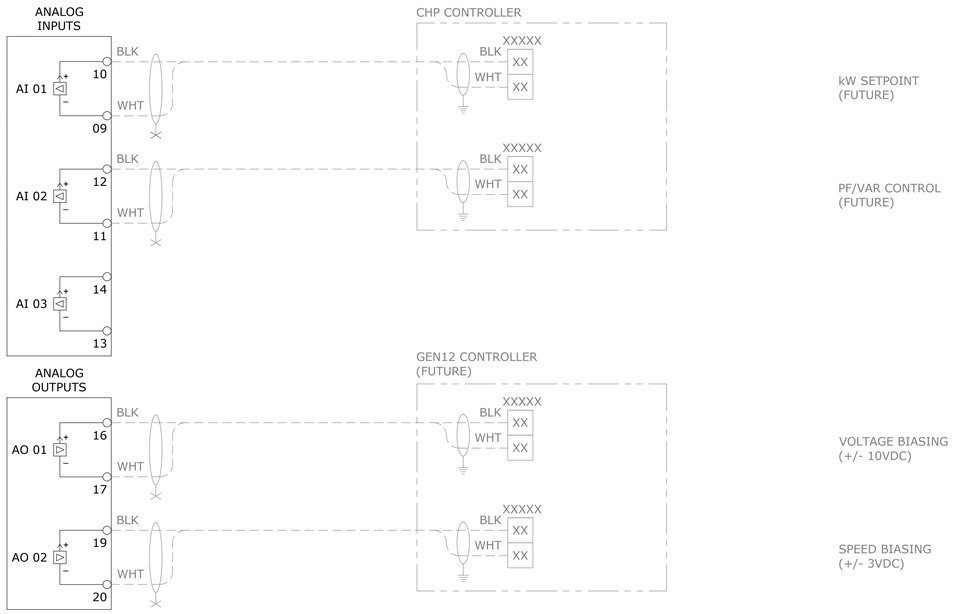

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SWITCHGEAR 'GCP' BREAKER - G9 EASYGEN CONTROLLER

Sheet No.

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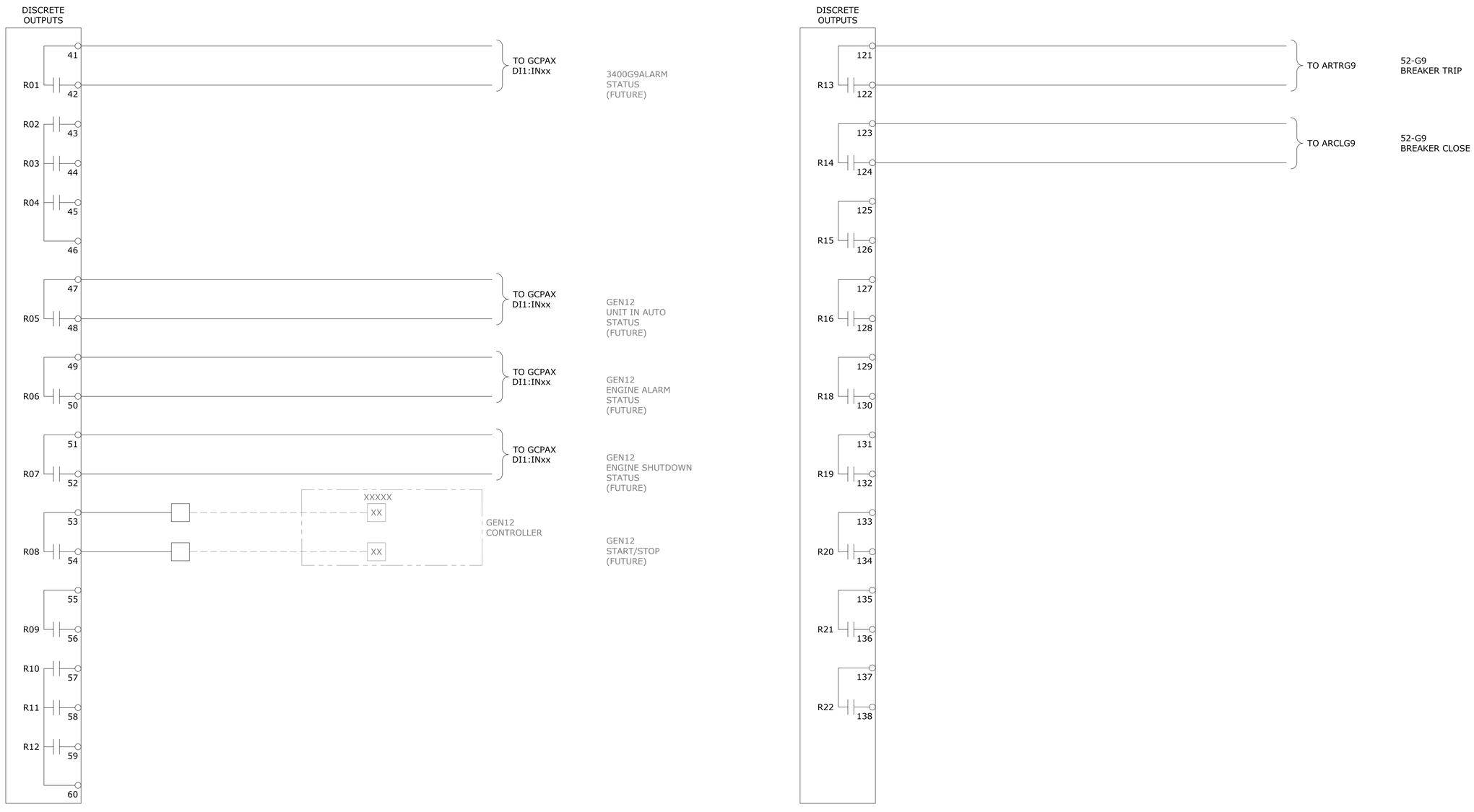

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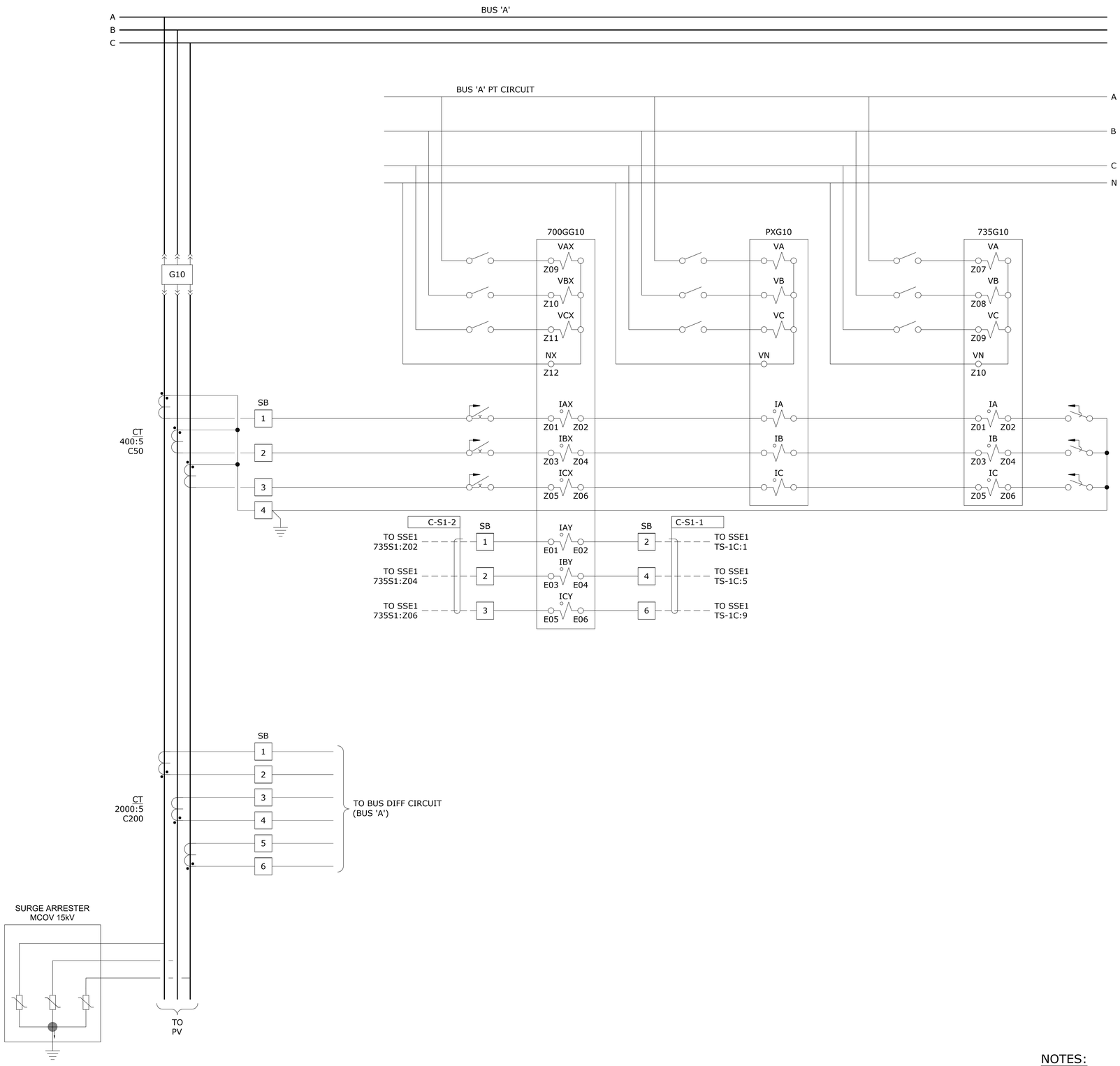

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SWITCHGEAR 'GCP' BREAKER - G10 THREE LINE

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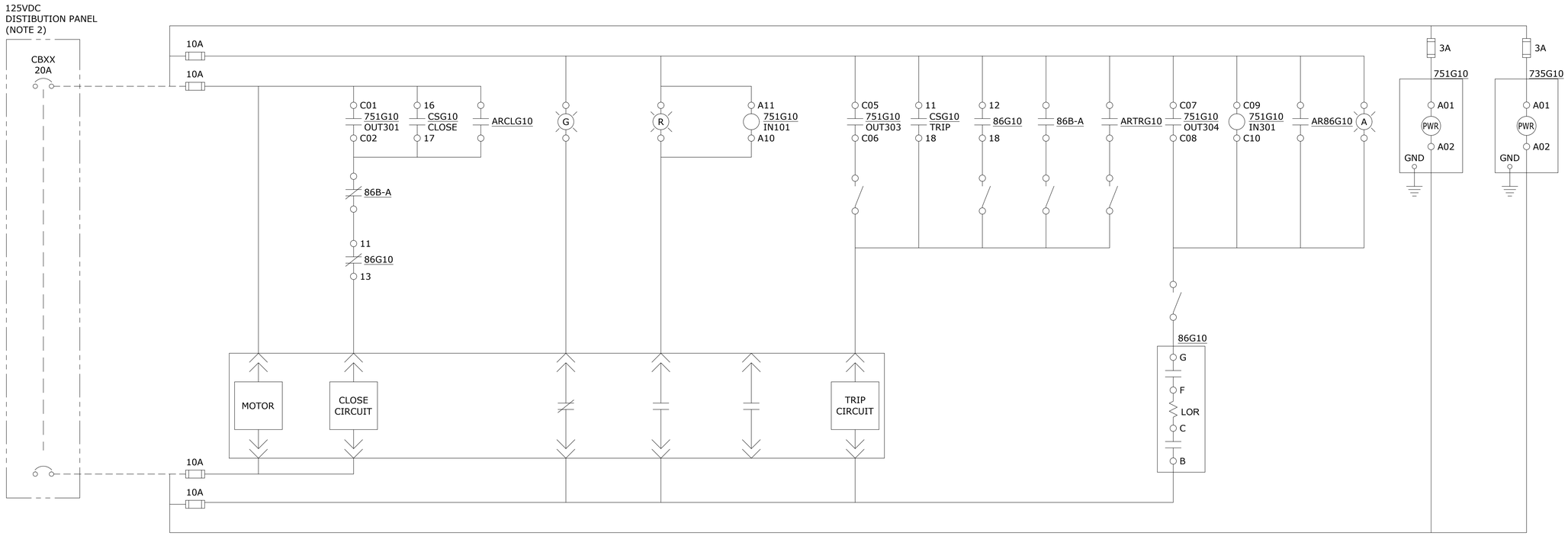

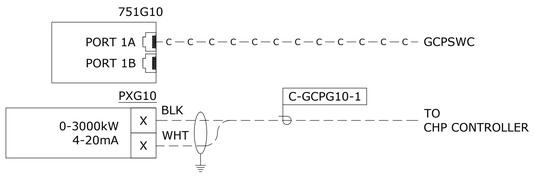

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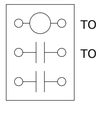
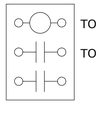


TO 24VDC DISTRIBUTION

TO 52-G10 TRIP CIRCUIT

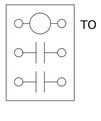
ARCLG10



TO 24VDC DISTRIBUTION

TO 52-G10 CLOSE CIRCUIT

AR86G10



TO 24VDC DISTRIBUTION

86G10
LOCK OUT RELAY

DECK	POSITION	POSITION TRIP	POSITION RESET	
TRIP	G — F		X	
	C — B		X	
1	11 — 13		X	52-G10 CLOSE PERMISSIVE
	12 — 18	X		52-G10 TRIP
	15 — 17		X	
	14 — 16	X		
2	21 — 23		X	
	22 — 28	X		
	25 — 27		X	
	24 — 26	X		

CSG10
BREAKER CONTROL SWITCH

DECK	POSITION	POSITION TRIP	POSITION NORMAL	POSITION CLOSE	
1	11 — 18	X			52-G10 TRIP
	16 — 17			X	52-G10 CLOSE

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LEGEND

— c — c — c — c — c — c — c — c — c — c — c — CAT6 ETHERNET CABLE

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SWITCHGEAR 'GCP' BREAKER - G10 DC SCHEMATIC

Sheet No.

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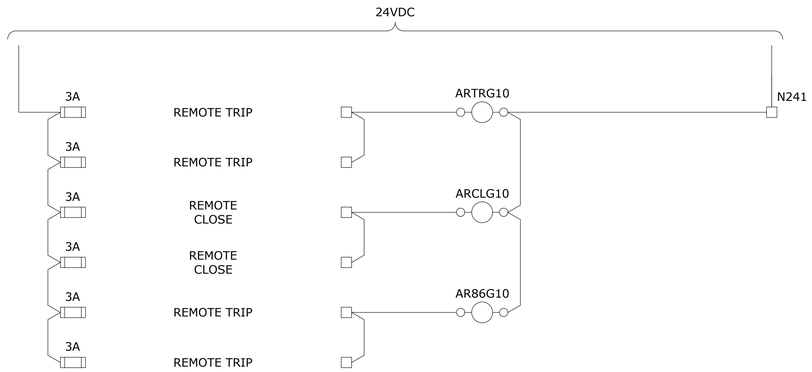

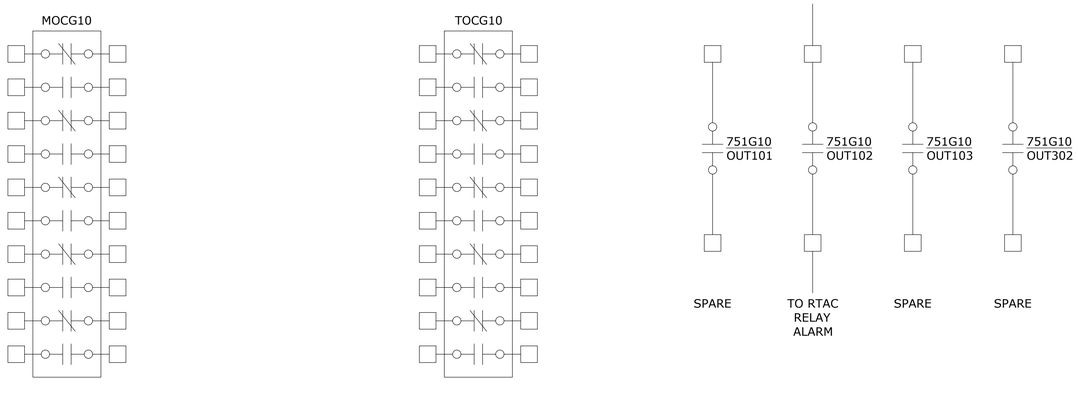

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

SWITCHGEAR 'GCP' BREAKER - G10 DC SCHEMATIC

Sheet No.

IP-3510C-2

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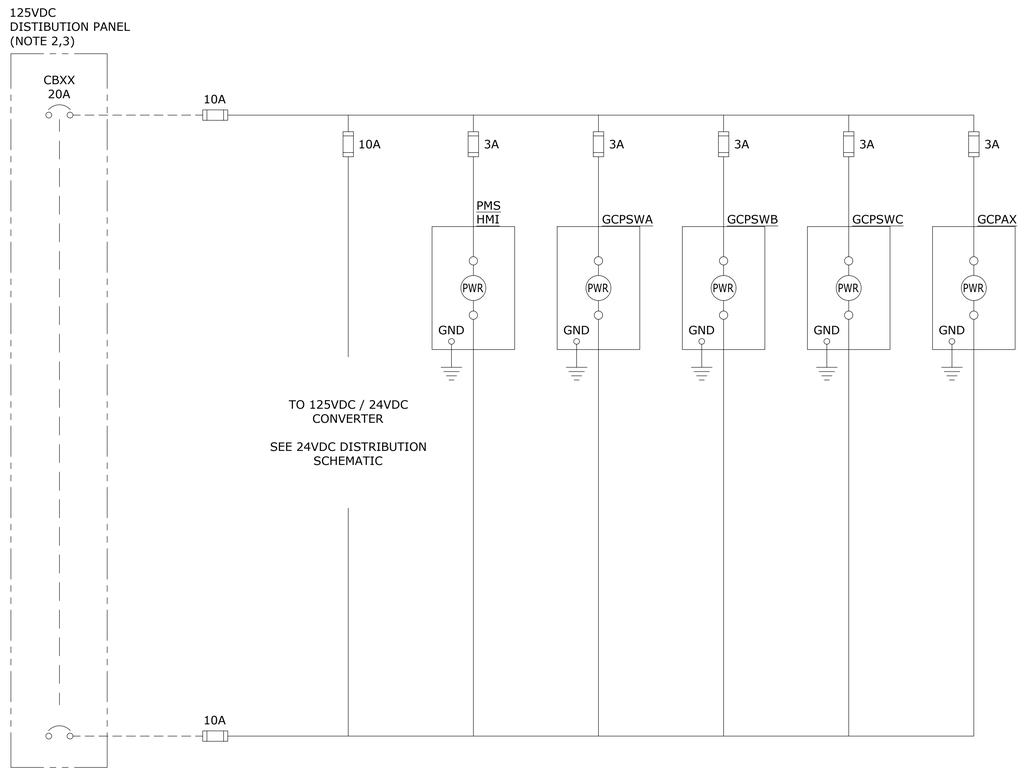

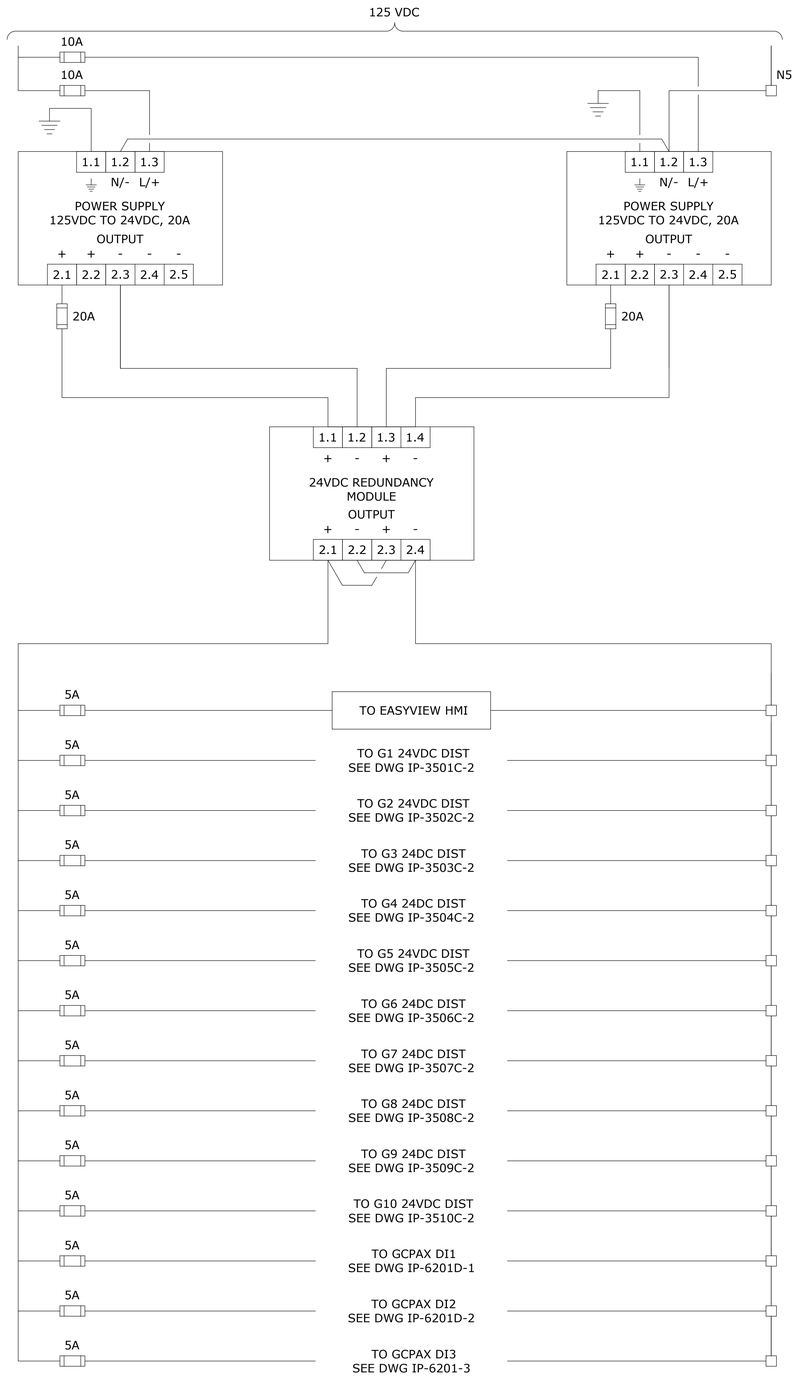

NOTES:

1. SWITCHGEAR VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.
2. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE 125VDC BATTERY CHARGER, BATTERIES AND DISTRIBUTION PANEL.
3. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLE BETWEEN DC DISTRIBUTION PANEL AND BREAKER CONTROL CIRCUIT.

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
SWITCHGEAR 'GCP' COMMS & 24 DIST DC SCHEMATIC

Sheet No.
IP-3520C-1

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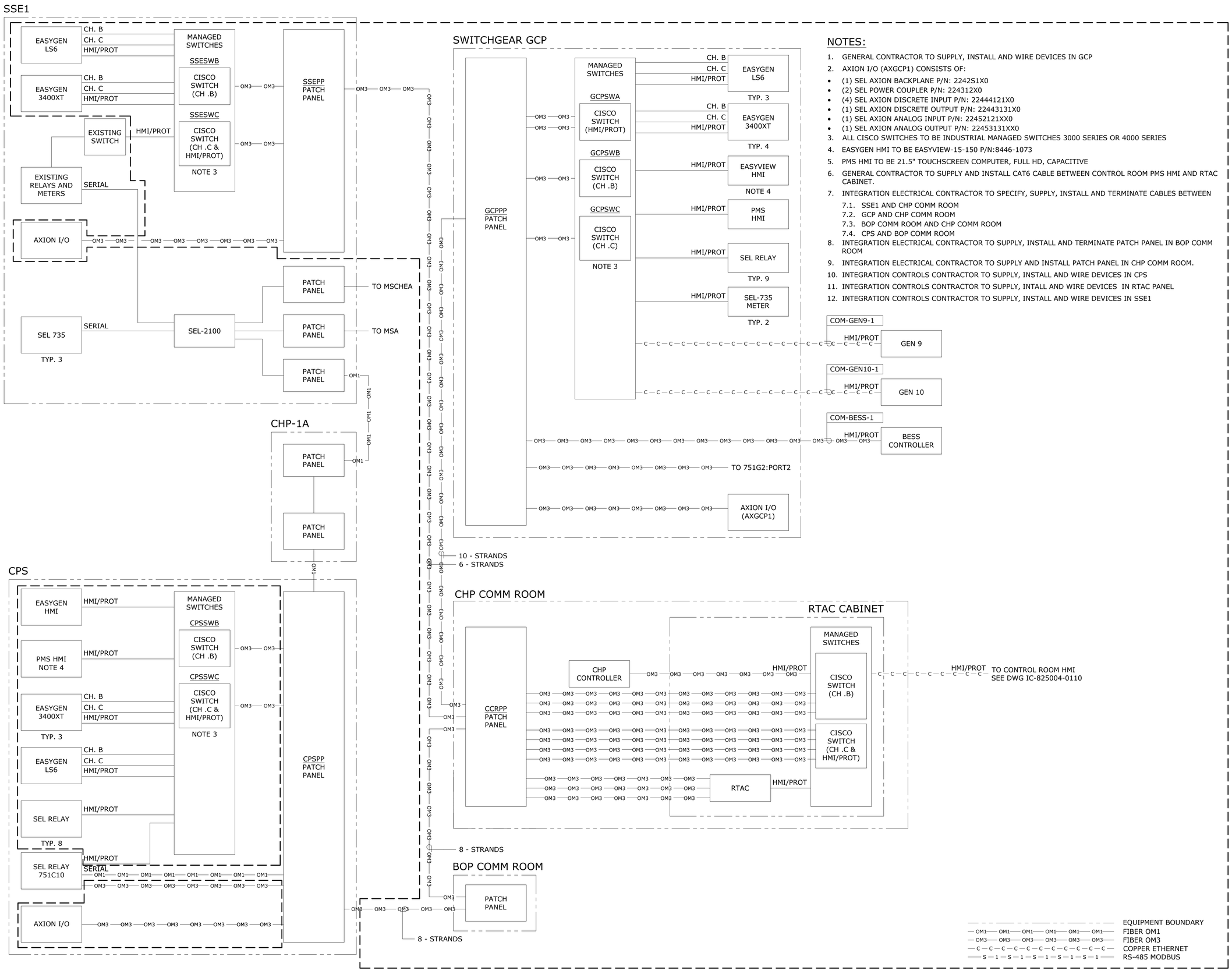

NOTES:

1. GENERAL CONTRACTOR TO SUPPLY, INSTALL AND WIRE DEVICES IN GCP
2. AXION I/O (AXGCP1) CONSISTS OF:
   - (1) SEL AXION BACKPLANE P/N: 2242S1X0
   - (2) SEL POWER COUPLER P/N: 224312X0
   - (4) SEL AXION DISCRETE INPUT P/N: 22444121X0
   - (1) SEL AXION DISCRETE OUTPUT P/N: 22443131X0
   - (1) SEL AXION ANALOG INPUT P/N: 22452121XX0
   - (1) SEL AXION ANALOG OUTPUT P/N: 22453131XX0
3. ALL CISCO SWITCHES TO BE INDUSTRIAL MANAGED SWITCHES 3000 SERIES OR 4000 SERIES
4. EASYGEN HMI TO BE EASYVIEW-15-150 P/N:8446-1073
5. PMS HMI TO BE 21.5" TOUCHSCREEN COMPUTER, FULL HD, CAPACITIVE
6. GENERAL CONTRACTOR TO SUPPLY AND INSTALL CAT6 CABLE BETWEEN CONTROL ROOM PMS HMI AND RTAC CABINET.
7. INTEGRATION ELECTRICAL CONTRACTOR TO SPECIFY, SUPPLY, INSTALL AND TERMINATE CABLES BETWEEN
   - 7.1. SSE1 AND CHP COMM ROOM
   - 7.2. GCP AND CHP COMM ROOM
   - 7.3. BOP COMM ROOM AND CHP COMM ROOM
   - 7.4. CPS AND BOP COMM ROOM
8. INTEGRATION ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE PATCH PANEL IN BOP COMM ROOM
9. INTEGRATION ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL PATCH PANEL IN CHP COMM ROOM.
10. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INSTALL AND WIRE DEVICES IN CPS
11. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INTALL AND WIRE DEVICES IN RTAC PANEL
12. INTEGRATION CONTROLS CONTRACTOR TO SUPPLY, INSTALL AND WIRE DEVICES IN SSE1

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

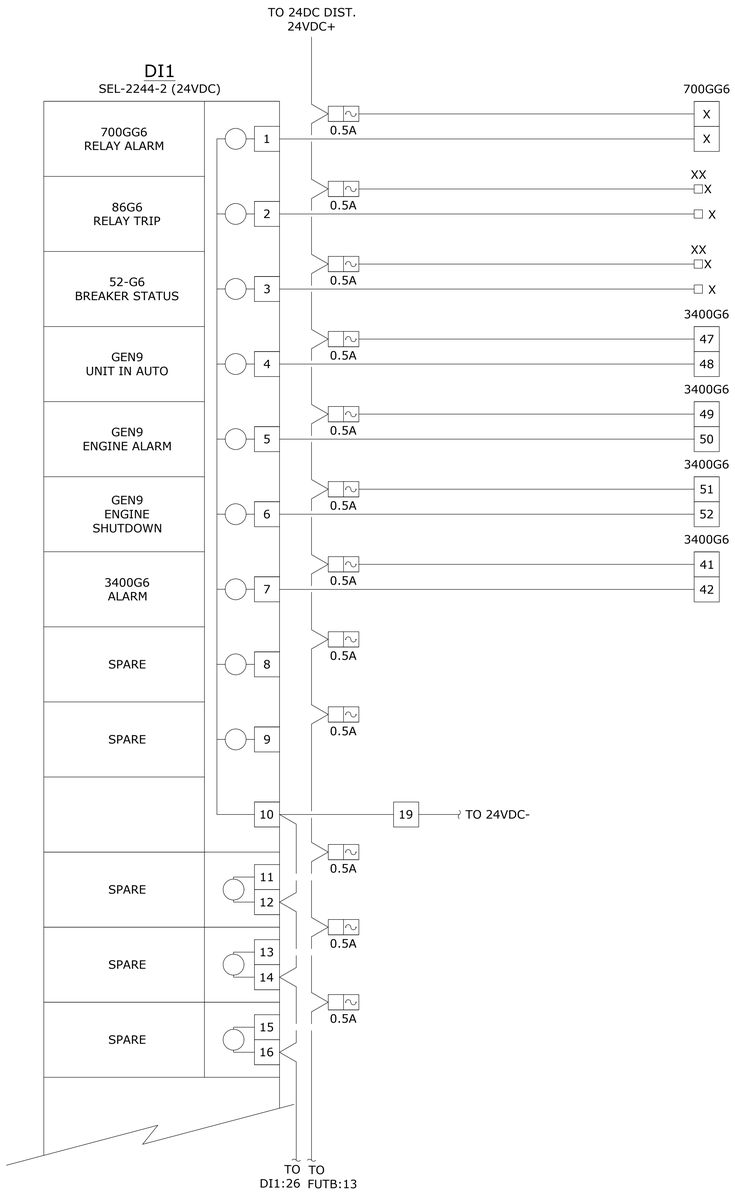
PHASE 2 - IFC 2026.05.27

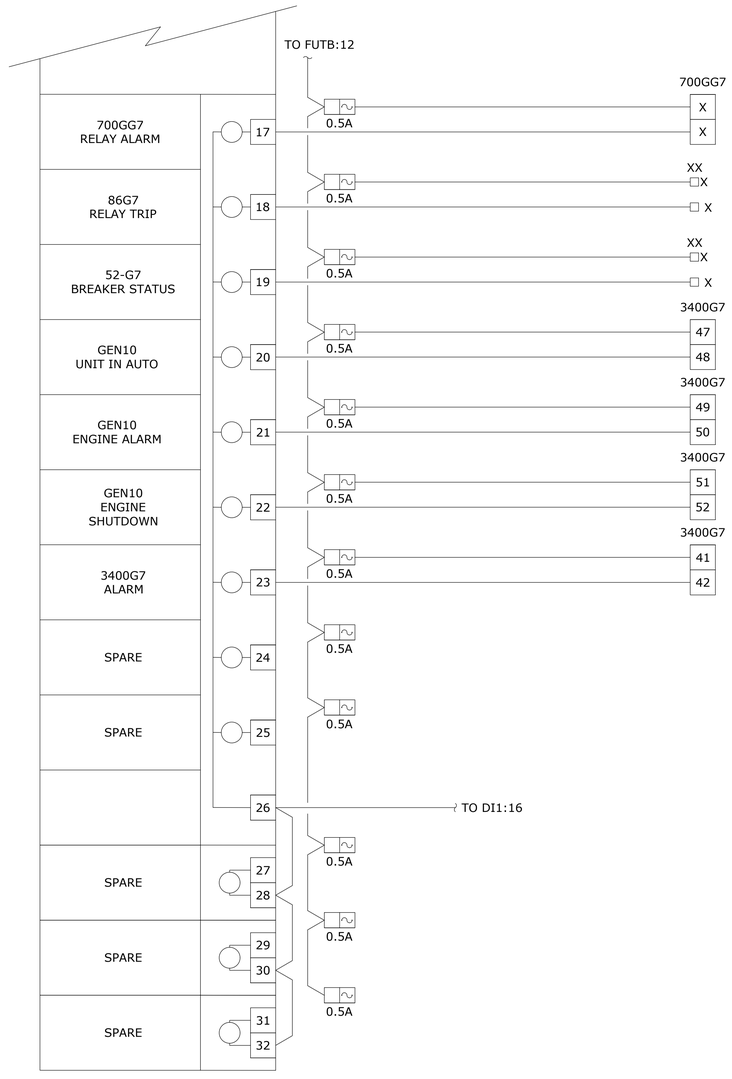
Sheet Title

COMM NETWORK OVERALL ETHERNET

Sheet No.

IP-5101A-1





NOTES:

1. THIS IS A PRELIMINARY DESIGN AND SUBJECT TO CHANGE BASED ON GENERATOR CONTROL REQUIREMENTS. VENDOR TO COMPLETE DETAILED DESIGN AND SUBMIT DRAWINGS FOR APPROVAL.

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PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
AXION IO GCPAX DISCRETE INPUTS

Sheet No.
IP-6201D-1

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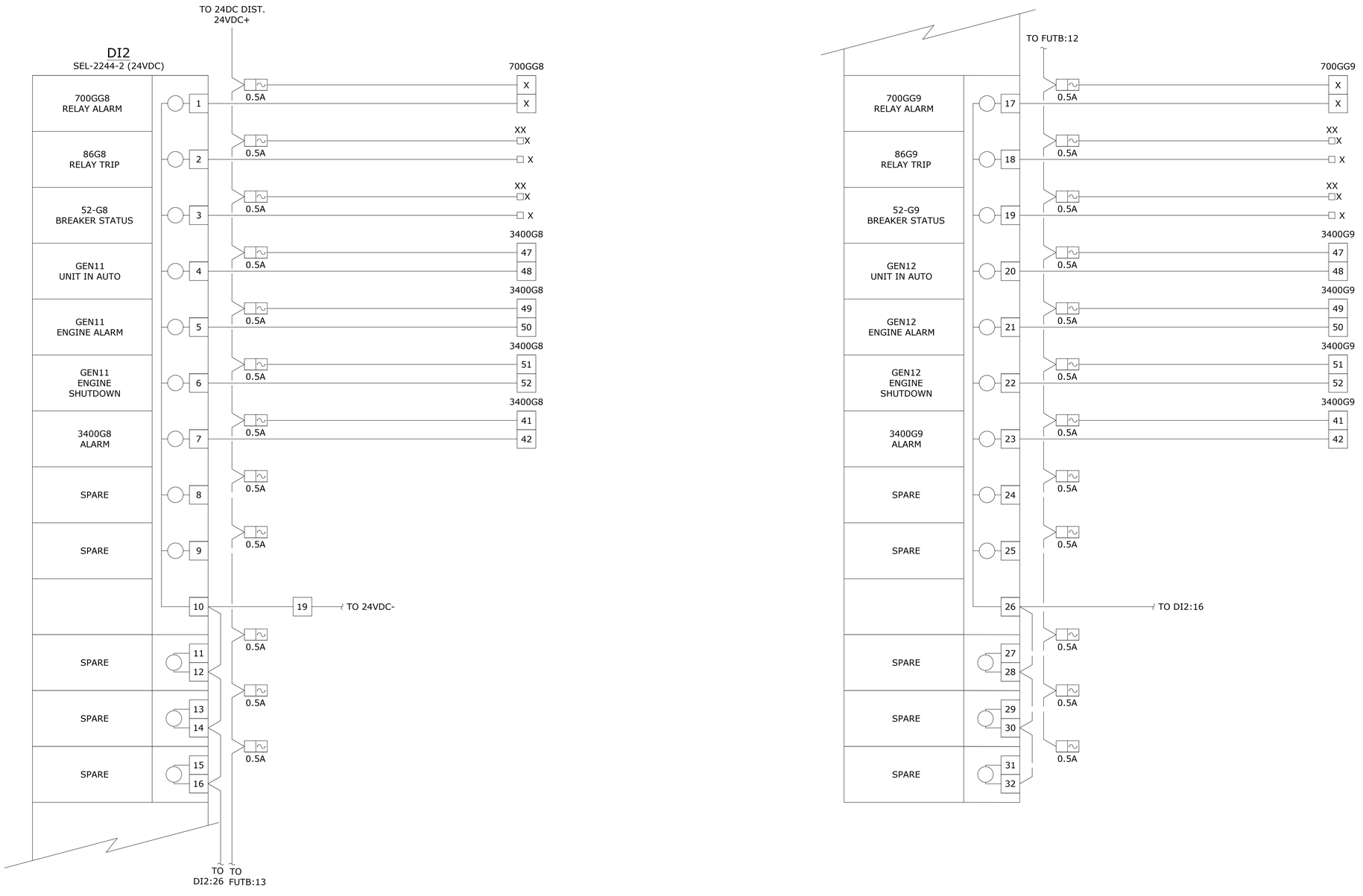

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
AXION IO GCPAX DISCRETE INPUTS

Sheet No.
IP-6201D-2

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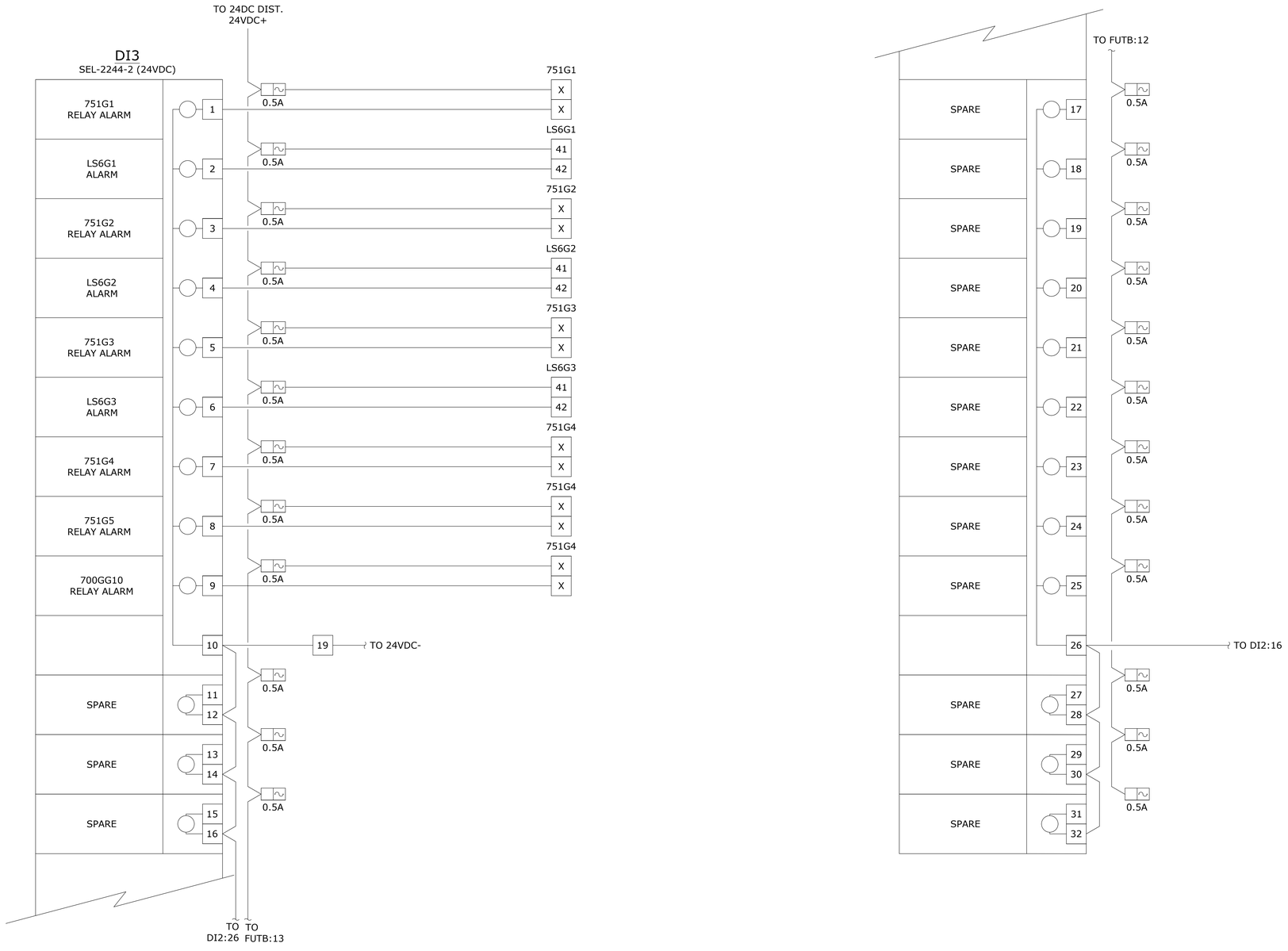

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
AXION IO GCPAX DISCRETE INPUTS

Sheet No.
IP-6201D-3

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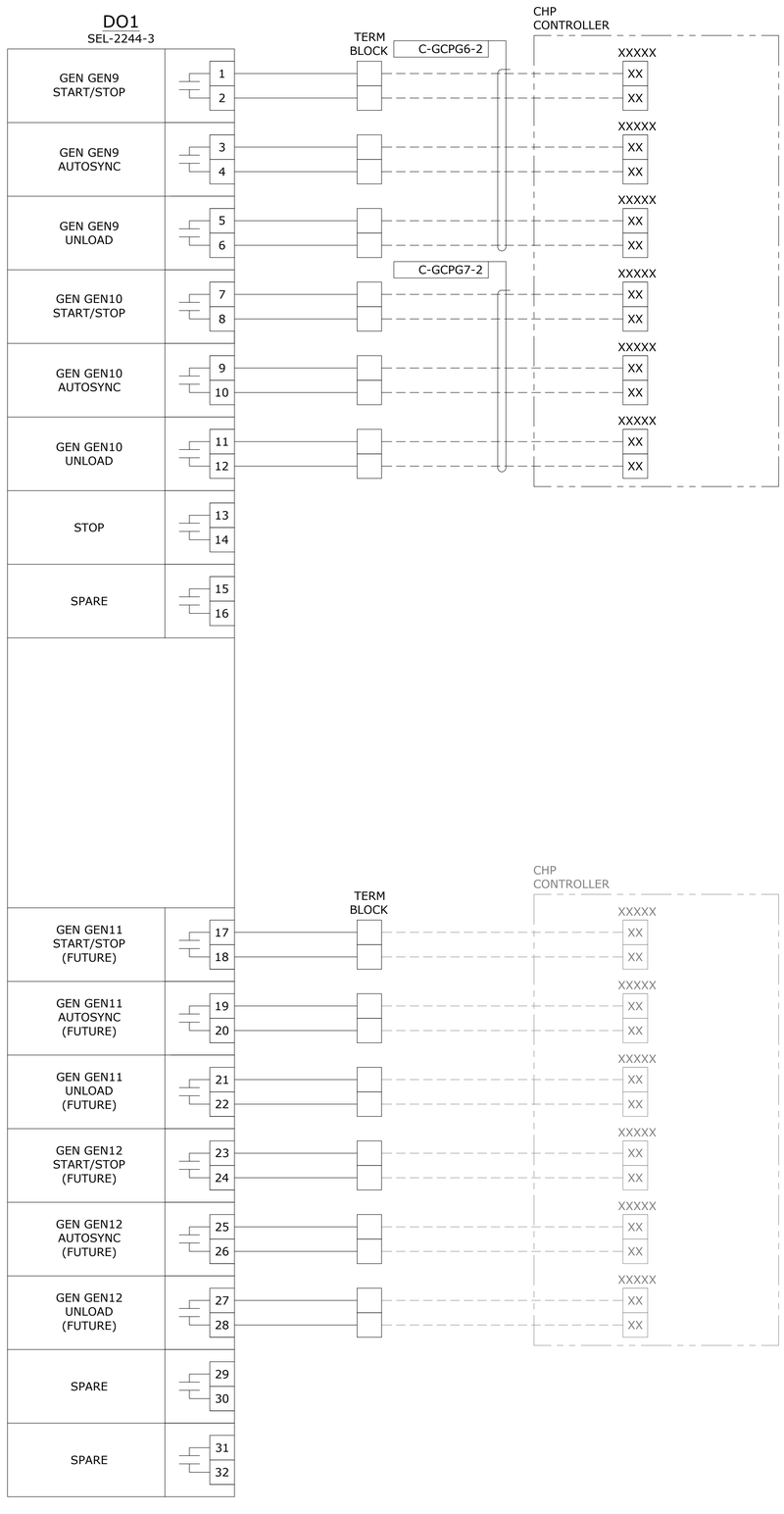

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
AXION IO GCPAX DISCRETE OUTPUTS

Sheet No.
IP-6201E-1

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AI1
SEL-2245-2
ANALOG INPUT

			TERM BLOCK
SPARE		1	
		2	
GROUND	GND	3	
SPARE		4	
		5	
SPARE		6	
		7	
GROUND	GND	8	
SPARE		9	
		10	
SPARE		11	
		12	
GROUND	GND	13	
SPARE		14	
		15	
SPARE		16	
		17	
GROUND	GND	18	
SPARE		19	
		20	

			TERM BLOCK
SPARE		21	
		22	
GROUND	GND	23	
SPARE		24	
		25	
SPARE		26	
		27	
GROUND	GND	28	
SPARE		29	
		30	
SPARE		31	
		32	
GROUND	GND	33	
SPARE		34	
		35	
SPARE		36	
		37	
GROUND	GND	38	
SPARE		39	
		40	

AO1
SEL-2245-3
ANALOG OUTPUT

			TERM BLOCK
SPARE		1	
		2	
GROUND	GND	3	
SPARE		4	
		5	
SPARE		6	
		7	
GROUND	GND	8	
SPARE		9	
		10	

			TERM BLOCK
SPARE		11	
		12	
GROUND	GND	13	
SPARE		14	
		15	
SPARE		16	
		17	
GROUND	GND	18	
SPARE		19	
		20	

NOTES:

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
AXION IO GCPAX
ANALOG INPUTS
ANALOG OUTPUTS

Sheet No.
IP-6201F-1

CONDUIT SCHEDULE

CONDUIT INFORMATION									CABLE INFORMATION		
CONDUIT	SEGMENT	VOLTAGE	FUNCTION	FROM	TO	CONDUIT TYPE	CONDUIT SIZE	% FILL	CABLE TAG	NO. & SIZE	NOTES
		24VDC COMM	CTs	GCP SWITCHGEAR	BESS		2"	19%	C-BESS-1	(1) 10C14	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-BESS-2	(1) 4PR16	
									COM-BESS-1	(1) 6 Strand	
									GND	(1) #6 GND	
		24VDC	CONTROLS	CPS SWITCHGEAR	CHP CONTROLLER		2"	9%	C-CPS-1	(1) 4PR16	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									GND	(1) #6 GND	
		24VDC	CONTROLS	GCP SWITCHGEAR	CHP CONTROLLER		3"	20%	C-GCPG10-1	(1) 2PR16	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-GCPG6-1	(1) 4PR16	
									C-GCPG6-2	(1) 20C14	
									C-GCPG7-1	(1) 4PR16	
									C-GCPG7-2	(1) 20C14	
									GND	(1) #6 GND	
		24VDC COMM	CONTROLS	GCP SWITCHGEAR	GEN 10 CONTROL PANEL		2"	23%	C-GEN10-1	(1) 20C14	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-GEN10-2	(1) 4PR16	
									COM-GEN10-1	(1) CAT6	
									GND	(1) #6 GND	
		24VDC COMM	CONTROLS	GCP SWITCHGEAR	GEN 9 CONTROL PANEL		2"	23%	C-GEN9-1	(1) 20C14	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-GEN9-2	(1) 4PR16	
									COM-GEN9-1	(1) CAT6	
									GND	(1) #6 GND	
		24VDC	CONTROLS	SSE1 SWITCHGEAR	CHP CONTROLLER		2"	17%	C-SSE1-1	(1) 4PR16	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-SSE1-2	(1) 10C14	
									GND	(1) #6 GND	
		-	CTs	GCP SWITCHGEAR	GEN 10 CONTROL PANEL		2"	11%	C-GEN10-4	(1) 4C10	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-GEN10-5	(1) 2C10	
									GND	(1) #6 GND	
		-	CTs	GCP SWITCHGEAR	GEN 9 CONTROL PANEL		2"	11%	C-GEN9-4	(1) 4C10	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-GEN9-5	(1) 2C10	
									GND	(1) #6 GND	
		-	CTs	SSE1 SWITCHGEAR	GCP SWITCHGEAR		2"	20%	C-S1-1	(1) 3C8	TO BE PROVIDED BY GENERAL CONTRACTOR CONDUIT SHOWN IN ELEN DRAWINGS
									C-S1-2	(1) 3C8	
									GND	(1) #6 GND	

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49566 SEMINOLE DRIVE, CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
CABLE AND CONDUIT SCHEDULE

Sheet No.
IP-8201A-1

CABLE LIST

CABLE INFORMATION									ROUTING		NOTES
CABLE TAG	VOLTAGE	FUNCTION	FROM	TO	CABLE TYPE (SEE TABLE 1)	No. OF CABLES	CABLE SIZE	APPROX LENGTH (ft)	CONDUIT No.	SEGMENT	
C-BESS-1	24VDC	CONTROLS	GCP SWITCHGEAR	BESS	CONTROL CABLE	1	10C14	-		-	-
C-BESS-2	24VDC	ANALOG SIGNAL	GCP SWITCHGEAR	BESS	INST CABLE	1	4PR16	-		-	-
C-CPS-1	24VDC	ANALOG SIGNAL	CPS SWITCHGEAR	CHP CONTROLLER	INST CABLE	1	4PR16	-		-	1SP
C-GCPG10-1	24VDC	ANALOG SIGNAL	GCP SWITCHGEAR	CHP CONTROLLER	INST CABLE	1	2PR16	-		-	1SP
C-GCPG6-1	24VDC	ANALOG SIGNAL	GCP SWITCHGEAR	CHP CONTROLLER	INST CABLE	1	4PR16	-		-	1SP
C-GCPG6-2	24VDC	DISCRETE CONTROLS	GCP SWITCHGEAR	CHP CONTROLLER	CONTROL CABLE	1	20C14	-		-	10SP
C-GCPG7-1	24VDC	ANALOG SIGNAL	GCP SWITCHGEAR	CHP CONTROLLER	INST CABLE	1	4PR16	-		-	1SP
C-GCPG7-2	24VDC	DISCRETE CONTROLS	GCP SWITCHGEAR	CHP CONTROLLER	CONTROL CABLE	1	20C14	-		-	10SP
C-GEN10-1	24VDC	CONTROLS	GCP SWITCHGEAR	GEN-10 CONTROLLER	CONTROL CABLE	1	20C14	-		-	8 SP
C-GEN10-2	24VDC	CONTROLS	GCP SWITCHGEAR	GEN-10 CONTROLLER	INST CABLE	1	4PR16	-		-	2 SP
C-GEN10-4	-	CT SIGNAL	GCP SWITCHGEAR	GEN-10 CONTROLLER	CONTROL CABLE	1	4C10	-		-	-
C-GEN10-5	-	CT SIGNAL	GCP SWITCHGEAR	GEN GEN10 NGR	CONTROL CABLE	1	2C10	-		-	-
C-GEN9-1	24VDC	CONTROLS	GCP SWITCHGEAR	GEN-9 CONTROLLER	CONTROL CABLE	1	20C14	-		-	8 SP
C-GEN9-2	24VDC	CONTROLS	GCP SWITCHGEAR	GEN-9 CONTROLLER	INST CABLE	1	4PR16	-		-	2 SP
C-GEN9-4	-	CT SIGNAL	GCP SWITCHGEAR	GEN-9 CONTROLLER	CONTROL CABLE	1	4C10	-		-	-
C-GEN9-5	-	CT SIGNAL	GCP SWITCHGEAR	GEN-9 NGR	CONTROL CABLE	1	2C10	-		-	-
COM-BESS-1	COMM	COMMS	GCP SWITCHGEAR	BESS	FIBER	1	6 Strand	-		-	-
COM-GEN10-1	COMM	COMMS	GCP SWITCHGEAR	GEN-10 CONTROLLER	ETHERNET / IP	1	CAT6	-		-	-
COM-GEN9-1	COMM	COMMS	GCP SWITCHGEAR	GEN-9 CONTROLLER	ETHERNET / IP	1	CAT6	-		-	-
C-S1-1	-	CT SIGNAL	SSE1 SWITCHGEAR	GCP CONTROLLER	LV CABLE NO GND	1	3C8	-		-	-
C-S1-2	-	CT SIGNAL	SSE1 SWITCHGEAR	GCP CONTROLLER	LV CABLE NO GND	1	3C8	-		-	-
C-SSE1-1	24VDC	ANALOG SIGNAL	SSE1 SWITCHGEAR	CHP CONTROLLER	INST CABLE	1	4PR16	-		-	1SP
C-SSE1-2	24VDC	CONTROLS	SSE1 SWITCHGEAR	CHP CONTROLLER	CONTROL CABLE	1	10C14	-		-	4SP

TABLE 1 - CABLE TYPES

TYPE	FUNCTION	DESCRIPTION
ETHERNET / IP	ETHERNET CABLE	INDUSTRIAL ETHERNET, FOUR TWISTED PAIRS, SOLID BARE COPPER CONDUCTORS, OVERALL BEDFOIL SHIELD (100%), POLYOLEFIN INSULATION, SUN-LIGHT & OIL RESISTANT PVC JACKET, BELDEN DATA TUFF OR ENGINEER APPROVED EQUAL.
FIBER	FIBER OPTIC CABLE	MULTIMODE 62.5um FIBER
INST CABLE	ANALOG INSTRUMENTATION	600V TRAY CABLE, 90 DEG C PVC JACKET, INDIVIDUALLY SHIELDED AND OVERALL SHIELDED.
CONTROL CABLE	DISCRETE SIGNALS	MULTI CONDUCTOR CONTROL CABLE, 600V, 90DEG C, XHHW-2 INSULATED CONDUCTORS, PVC OVERALL JACKET.
LV CABLE NO GND	CT CIRUITS	THREE CONDUCTOR WITHOUT GROUNDING CONDUCTOR, 600V POWER AND CONTROL TRAY CABLE, TYPE XHHW-2, 90 DEG C WET OR DRY, XLPE INSULATION, STRANDED COPPER CONDUCTOR, OKONITE X-OLENE OR ENGINEER APPROVED EQUIVALENT.
GROUND	INSULATED GROUND WIRE	SINGLE CONDUCTOR, 600V, STRANDED COPPER, PVC INSULATION, THWN.

LEGEND

CABLE SIZE XXYYZZ
- XX - NUMBER OF CONDUCTORS/PAIRS/TRIADS
- YY - CONDUCTOR TYPE
  - C = SINGLE CONDUCTOR
  - PR - SHIELDED PAIR
  - TR - SHIELDED TRIAD
- ZZ - CONDUCTOR AWG

XX SP - XX NUMBER OF CONDUCTOR TYPE SPARES

NOTES

1. CONDUITS SHOWN ON ELEN DRAIWNGS.
2. INTEGRATION ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL AND TERMINATE CABLES

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REGISTERED PROFESSIONAL ENGINEER
KYLE D. FALKENBERG
E-22774
Expires 06/30/27
ELECTRICAL
STATE OF CALIFORNIA

DATE SIGNED 06/05/26

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title

CABLE AND CONDUIT SCHEDULE

Sheet No.

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ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.
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APPLICABLE CODES AND STANDARDS

1. CALIFORNIA BUILDING CODE (CBC), 2022 EDITION
2. CALIFORNIA FIRE CODE (CFC), 2022 EDITION
3. CALIFORNIA ELECTRIC CODE (CEC), 2022 EDITION
4. CALIFORNIA MECHANICAL CODE (CMC), 2022 EDITION
5. NFPA 72, 2022 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE

BUILDING INFORMATION

1. BUILDING ADDRESS: 49566 SEMINOLE DRIVE, CABAZON, CA 92230
2. BUILDING USE: ELECTRICAL GENERATION PLANT
3. CONSTRUCTION TYPE: II-B
4. OCCUPANCY: GROUP S, GROUP F-1

SCOPE OF WORK

1. PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM THAT INCLUDES THE FOLLOWING:
   A. A NEW ADDRESSABLE FIRE ALARM CONTROL PANEL.
   B. HORN/STROBE NOTIFICATION APPLIANCES THROUGHOUT COMMON AREAS. HORNS SHALL HAVE A SOUND LEVEL OF AT LEAST 15DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (DBA) IN ACCORDANCE WITH NFPA 72 SECTION 18.4.4.1
   C. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH CBC 907.2.9 AND CBC 907.2.11.
   D. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH CBC 717.3.3.2 ABD CMC 609.1.
   E. FIRE SPRINKLER WATER FLOW AND VALVE SUPERVISORY SWITCH MONITORING.
   F. CARBON MONOXIDE DETECTOR SHALL BE INSTALLED IN ACCORDANCE WITH CBC 915.
   G. MONITOR MODULES FOR MONITORING GAS DETECTION SYSTEMS IN BATTERY ROOMS.
   H. CONTROL RELAYS FOR STARTING EXHAUST FANS UPON GAS DETECTION SYSTEM ACTIVATION.
   I. MONITOR MODULES FOR MONITORING EPO (EMERGENCY POWER OFF) SWITCHES.
2. ALL NETWORK COMMUNICATION CIRCUITS BETWEEN MULTIPLE CONTROL UNITS WILL BE CLASS “A” IN ACCORDANCE WITH NFPA 72.
3. ALL SIGNALING LINE CIRCUIT (SLC) RISERS WILL BE CLASS “B” IN ACCORDANCE WITH NFPA 72.
4. ALL NOTIFICATION APPLIANCE CIRCUITS, INITIATING DEVICE CIRCUITS, AND SIGNALING LINE CIRCUITS ON INDIVIDUAL FLOORS WILL BE CLASS “B” IN ACCORDANCE WITH NFPA 72.

GENERAL REQUIREMENTS

1. ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE USED FOR EXACT MEASURE OR FABRICATION. CONTRACTOR SHALL INSTALL ALL FIRE ALARM COMPONENTS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION OF SYSTEM CONDUIT AND OTHER COMPONENTS WITH ALL OTHER TRADES.
2. ALL DEVICES NEEDED FOR A COMPLETE AND WORKING FIRE ALARM SYSTEM MAY NOT BE SHOWN ON THESE DRAWINGS. PROVIDE EQUIPMENT AS NECESSARY FOR A FULLY OPERATIONAL SYSTEM.
3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND OTHER OWNER REQUIREMENTS.
4. INSTALL THE FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF ALL CODES AND STANDARDS LISTED ON THIS SHEET.
5. THE PROJECT TECHNICAL SPECIFICATIONS ARE A PART OF AND OTHERWISE COMPLIMENT THESE DRAWINGS. IN CASE OF DISPUTE, THE TECHNICAL SPECIFICATIONS SHALL SUPERSEDE THESE DRAWINGS, AND THE APPLICABLE CODES AND STANDARDS SHALL SUPERSEDE THE TECHNICAL SPECIFICATIONS.
6. IN CASE OF DISPUTE AS TO THE INTENT OF THESE DRAWINGS, OBTAIN ARCHITECT'S/ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING WITH INSTALLATION.
7. CHANGES IN THE LOCATIONS OF EQUIPMENT FROM THOSE SHOWN ON DRAWINGS SHALL BE IDENTIFIED AND APPROVED IN WRITING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECTIFYING UNAUTHORIZED NON-COMPLIANT CHANGES AT NO ADDITIONAL CHARGE TO THE OWNER.
8. THE CONTRACTOR SHALL PROVIDE A FIELD PROJECT MANAGER THROUGHOUT THE PROJECT WITH A MINIMUM OF NICET LEVEL III CERTIFICATION IN FIRE ALARM SYSTEM TECHNOLOGY.
9. THE CONTRACTOR IS SPECIFICALLY RESPONSIBLE FOR ALL OF THE FOLLOWING:
   A. MEANS AND METHODS OF JOB SAFETY. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
   B. PREPARING SHOP DRAWINGS INCLUDING A RISER DIAGRAM, SEQUENCE OF OPERATIONS MATRIX, POWER CONNECTION DETAILS, FLOOR PLANS SHOWING ALL DEVICE ADDRESSES, POWER SUPPLIES, INTERIOR PANEL WIRING, CIRCUITRY, POINT TO POINT CONNECTION DETAIL DRAWINGS, AND ZONING PROPOSED FOR THE PROJECT/SYSTEM IN SUFFICIENT DETAIL TO CLEARLY REVIEW AND BUILD THE SYSTEM.
   C. SUBMITTING CATALOG CUT SHEETS, ADDRESSABLE SIGNAL LINE CIRCUIT LOADING, NOTIFICATION APPLIANCE CIRCUIT LOADING, BATTERY CALCULATIONS, CURRENT DRAW AND VOLTAGE DROP CALCULATIONS AND SAMPLES AS REQUIRED BY NFPA 72, OWNER, AND ENGINEER REQUIREMENTS. ALL DEVICES WILL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED. PROVIDE CURRENT CSFM LISTING SHEETS WITH CATALOG CUT SHEETS.
   D. PREPARING 'AS-BUILT' DRAWINGS IN ELECTRONIC FORMAT, REFLECTING ACCURATE FIELD CONDITIONS. ALL DEVICES WILL BE LABELED WITH PROGRAMMED ADDRESSES.
   E. PROVIDING ALL REQUIRED DEVICES, FITTINGS, JUNCTION BOXES, PULL BOXES, OR SIMILAR ITEMS REQUIRED FOR A COMPLETE CODE-COMPLIANT SYSTEM.
   F. COORDINATING THE FINAL LOCATIONS AND LAYOUTS OF ALL FIRE ALARM SYSTEMS.
   G. MEET ALL REQUIREMENTS OF NFPA 72, CHAPTERS 17 AND 18.
10. THE REQUIREMENTS CONTAINED IN NFPA 72, SECTION 7.7.2 MUST BE VERIFIED, INCLUDING:
   A. A DOCUMENTATION CABINET INSTALLED AT AN APPROVED LOCATION IN ACCORDANCE WITH NFPA 72 7.7.2.1.
   B. RECORD DOCUMENTATION IS REQUIRED TO BE STORED IN THAT CABINET IN ACCORDANCE WITH NFPA 72 7.7.2.3.
   C. INDICATION ON THE CONTROL UNIT AS TO THE CABINET LOCATION SHOULD BE PROVIDED IF THE CABINET IS NOT AT THE CONTROL UNIT IN ACCORDANCE WITH NFPA 72 7.7.2.4.
   D. CABINET SHOULD BE PROMINENTLY LABELED “SYSTEM RECORD DOCUMENTS” IN ACCORDANCE WITH NFPA 72 7.7.2.5.
   E. CONTENTS OF THE CABINET ARE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL IN ACCORDANCE WITH NFPA 72 7.7.2.7.
   F. CABINET SHOULD INCLUDE COPIES OF RECORD COMPLETION, RECORD OF INSPECTION AND TESTING, AND RISK ANALYSIS IN ACCORDANCE WITH NFPA 72 7.8.2.

INSTALLATION REQUIREMENTS

1. THE INSTALLING CONTRACTOR SHALL CONTRACT WITH A SINGLE SOURCE FOR SUPPLYING JOB MATERIALS, SERVICES, AND PROGRAMMING, INCLUDING FINAL INSPECTION AND TESTING SERVICES.
2. EACH COMPONENT OF THE FIRE ALARM SYSTEM SHALL BE LISTED FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL AND SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) APPROVED.
3. PROVIDE A PERMANENT LABEL FOR EACH WIRE/CIRCUIT (WITHIN ALL PANELS, CABINETS AND JUNCTION BOXES) INDICATING IT'S APPLICATION/USE/SERVICE.
4. ALL CIRCUITS SHALL BE INSTALLED CONCEALED ABOVE CEILING WHENEVER POSSIBLE AND WITHIN WALL CAVITIES FOR ALL CEILING AND WALL MOUNTED DEVICES AND APPLIANCES. WIRING SHALL BE LISTED FOR USE WITH THE EQUIPMENT SERVED AND SHALL BE INSTALLED IN 3/4" EMT OR SHALL BE FIRE ALARM RATED FPL/FPLP CABLE. NO EXPOSED WIRING WILL BE PERMITTED WITHIN NORMALLY OCCUPIED AREA OF THE BUILDING.
5. ALL WIRING, CABLES, BOXES, TROUGHS, AND OTHER RELATED EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
6. FIELD PAINT JUNCTION BOXES, TERMINAL CABINETS, BACK BOXES AND COVERS WITH RED PAINT ON ALL SURFACES. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE LABELED WITH WHITE LETTERS INDICATING "FIRE ALARM" AS REQUIRED BY CODE.
7. ALL SYSTEM POWER AND GROUND CIRCUITS SHALL BE TYPE "THHN/THWN" SOLID COPPER SIZED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
8. ALL PENETRATIONS OF FIRE RESISTANCE RATED BARRIERS, WALLS, AND, SHAFT/ASSEMBLIES SHALL BE DRILLED AND SEALED WITH AN APPROVED UL FIRE-RATED THROUGH-PENETRATION ASSEMBLY.
9. UL CLASSIFICATIONS AND MATERIAL PRODUCT DATA SHEETS FOR ALL FIRE STOPPING SYSTEMS SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRE STOPPING IS INSTALLED.
10. WALL MOUNT HORNS, STROBES, AND COMBINATION HORN/STROBE ALARM NOTIFICATION APPLIANCES SHALL BE MOUNTED AT A MINIMUM OF 80-INCHES AND MAXIMUM OF 96-INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE BOTTOM OF THE LENS.
11. ADDRESSABLE CONTROL/RELAY MODULES UTILIZED FOR ANY SHUTDOWN OR ACTIVATION FUNCTIONS SHALL BE MOUNTED WITHIN THREE (3) FEET OF THE CONTROLLED CIRCUIT OR DEVICE.
12. ALL STROBES SHALL BE SYNCHRONIZED.
13. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36-INCH HORIZONTAL PATH FROM SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL NOT BE INSTALLED IN THE DIRECT AIRFLOW FROM THOSE REGISTERS.
14. SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP IS COMPLETE AND FINAL.
15. INSTALLATION AND TERMINATIONS OF ALL WIRE SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

TESTING REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE NEW FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. THE NEW SYSTEM AND ALL COMPONENTS OF THE SYSTEM SHALL UNDERGO 100% FUNCTIONAL AND OPERATIONAL TESTING IN ACCORDANCE WITH NFPA 72 FOR NEW SYSTEM ACCEPTANCE AND SHALL SATISFY THE TEST CRITERIA HEREIN DESCRIBED PRIOR TO ACCEPTANCE.
2. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A FACTORY TRAINED TECHNICIAN FOR ALL PROGRAMMING, PRE-ACCEPTANCE TESTING WITH THE SPECIAL INSPECTOR, AND ACCEPTANCE TESTING WITH THE AHJ.

FIRE ALARM EQUIPMENT LIST

QUANTITY	SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
1	FACP	FIRE ALARM CONTROL PANEL	EST4	EDWARDS	ENCLOSURE PROVIDED	66" A.F.F. TO TOP	7170-1657:0508
1	FACP	FIRE ALARM POWER SUPPLY	BPS10A	EDWARDS	ENCLOSURE PROVIDED	66" A.F.F. TO TOP	7300-1657:0229
1	TVSS 120	120 VAC DEDICATED CIRCUIT SURGE PROTECTOR	DTK-120HW	DITEK	N/A	FIELD VERIFY	7300-2105:0105
2	TVSS 24	24 VDC DEDICATED CIRCUIT SURGE PROTECTOR	DTK-2MHLP	DITEK	N/A	FIELD VERIFY	4945-2105:0100
1	DOC	FIRE ALARM DOCUMENT CABINET	SSU00686	SPACE AGE	SURFACE MOUNTED	66" A.F.F. TO TOP	7300-0553:0110
1	F	MANUAL PULL STATION	SIGA-278	EDWARDS	4S DEEP BOX W/ SINGLE GANG RING	48" A.F.F. TO CENTER OF BOX	7150-1657:0129
4	S	SMOKE DETECTOR	SIGA-OSD SIGA-SB4/BASE	EDWARDS	4S DEEP BOX W/ 3-0 RING	CEILING MOUNTED	7272-1657:0511 7300-1657:0120
6	S CO	CARBON MONOXIDE DETECTOR	SIGA-COD SIGA-SB4/BASE	EDWARDS	4S DEEP BOX W/ 3-0 RING	CEILING MOUNTED	5278-1657:0335 7300-1657:0120
1	S	IN-DUCT SMOKE DETECTOR (PHOTO)	SIGA-OSD SIGA-SD	EDWARDS	HOUSING PROVIDED	VERIFY IN FIELD	7272-1657:0511 3240-1657:0517
12	AIM	FIRE ALARM MONITOR MODULE	SIGA-CT1	EDWARDS	4S DEEP BOX W/ SINGLE GANG RING	VERIFY IN FIELD	7300-1657:0121
4	AOM	FIRE ALARM RELAY MODULE	SIGA-CR	EDWARDS	4S DEEP BOX W/ SINGLE GANG RING	VERIFY IN FIELD	7300-1657:0121
1	CC1S	FIRE ALARM SYNC OUTPUT MODULE	SIGA-CC1S	EDWARDS	4S DEEP BOX W/ SINGLE GANG RING	MOUNTED IN POWER SUPPLY ENCLOSURE	7300-1657:0121
16	cd	FIRE ALARM WALL MOUNTED HORN/STROBE	G4AVRF	EDWARDS	4S DEEP BOX W/ 4S EXTENSION	90" A.F.F. TO BOTTOM	7125-1657:0504
6	cd WP	FIRE ALARM WALL MOUNTED HORN/ STROBE (WEATHERPROOF)	WGAVRF	EDWARDS	4S DEEP BOX W/ 4S EXTENSION	90" A.F.F. TO BOTTOM	7135-1657:0522
1	cd	FIRE ALARM WALL MOUNTED STROBE (WEATHERPROOF)	WGVRF	EDWARDS	4S DEEP BOX W/ 4S EXTENSION	90" A.F.F. TO BOTTOM	7125-1657:0505
1		EXTERIOR120 VAC SPRINKLER WATERFLOW BELL	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	90" A.F.F. TO BOTTOM	N/A
2	J	JUNCTION BOX	BY ELECTRICAL CONTRACTOR	BY ELECTRICAL CONTRACTOR	BY ELECTRICAL CONTRACTOR	N/A	N/A
1	WF	SPRINKLER WATER FLOW SWITCH	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	N/A	N/A
4	TS	SPRINKLER VALVE TAMPER SWITCH	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	N/A	N/A
1	DCBA	DOUBLE CHECK BACKFLOW ASSEMBLY	BY PLUMBING CONTRACTOR	BY PLUMBING CONTRACTOR	BY PLUMBING CONTRACTOR	N/A	N/A
1	PIV	POST INDICATOR VALVE	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	BY SPRINKLER CONTRACTOR	N/A	N/A
1		EPO SWITCH (EMERGENCY POWER OFF)	BY ELECTRICAL CONTRACTOR	BY ELECTRICAL CONTRACTOR	BY ELECTRICAL CONTRACTOR	N/A	N/A
5	GDS	GAS DETECTION SYSTEM(HYDROGEN/ METHANE)	BY MECHANICAL CONTRACTOR	BY MECHANICAL CONTRACTOR	BY MECHANICAL CONTRACTOR	N/A	N/A
---	A.F.F.	ABOVE FINISHED FLOOR	N/A	N/A	N/A	N/A	N/A
---	WP	WEATHERPROOF DEVICE	N/A	N/A	N/A	N/A	N/A
---	EOL	END OF LINE RESISTOR	N/A	N/A	N/A	N/A	N/A
---	F.B.O.	FURNISHED BY OTHERS	N/A	N/A	N/A	N/A	N/A
---	N/A	NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A
---	U.O.N.	UNLESS OTHERWISE NOTED	N/A	N/A	N/A	N/A	N/A

FIRE ALARM SEQUENCE OF OPERATIONS

	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL INDICATOR	ACTUATE EVACUATION SIGNAL	TRANSMIT ALARM SIGNAL TO FIRE DEPARTMENT (FD)	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	ACTUATE EXTERIOR BELL AT FD RESPONSE POINT	SHUTDOWN AIR HANDLING UNIT	SHUTDOWN FUEL OIL SUPPLY SYSTEM	ACTIVATE EXHAUST FAN EF-6	ACTIVATE EXHAUST FAN EF-5	ACTIVATE EXHAUST FAN EF-2	DISCONNECT 12KV POWER TO COGEN PLANT	DISABLE UPS UNITS IN NEW COGEN PLANT	STOP NATURAL GAS GENERATORS IN COGEN PLANT	DISCONNECT NATURAL GAS SUPPLY FOR NEW GENERATORS	DISCONNECT 12KV POWER TO BESS FACILITY
INITIATING DEVICES	ANNUNCIATION						NOTIFICATION						FIRE SAFETY CONTROL									
MANUAL PULL STATION	X	X					X	X	X													
SMOKE DETECTOR - SPOT TYPE	X	X					X	X	X													
DUCT SMOKE DETECTOR			X	X						X			X									
CARBON MONOXIDE DETECTOR			X	X			X			X												
HYDROGEN DETECTOR LOCATED IN BATTERY ROOM 106			X	X						X					X							
HYDROGEN DETECTOR LOCATED IN BATTERY ROOM 109			X	X						X						X						
HYDROGEN DETECTOR LOCATED IN UPS ROOM 107			X	X						X							X					
METHANE DETECTORS LOCATED IN GENERATOR ROOM 105			X	X						X				X								
EPO SWITCH LOCATED AT THE EXTERIOR OF ENTRY VESTIBULE 100			X	X						X									X			
EPO SWITCH LOCATED AT THE EXTERIOR OF BESS FACILITY			X	X						X												X
FIRE SUPPRESSION	ANNUNCIATION						NOTIFICATION						FIRE SAFETY CONTROL									
WATERFLOW SWITCH	X	X					X	X	X			X										
TAMPER SWITCH			X	X						X												
FIRE ALARM SYSTEM	ANNUNCIATION						NOTIFICATION						FIRE SAFETY CONTROL									
AC POWER LOSS					X	X					X											
LOW BATTERY					X	X					X											
OPEN CIRCUIT					X	X					X											
GROUND FAULT					X	X					X											
CIRCUIT SHORT					X	X					X											

SHEET INDEX

SHEET NUMBER	SHEET TITLE
FA001	FIRE ALARM SYSTEM COVER PAGE
FA002	FIRE ALARM SITE PLAN AND CONTROL PANAL ELEVATION DETAIL
FA101	FIRE ALARM SYSTEM FLOOR PLANS
FA201	FIRE ALARM SYSTEM RISER DIAGRAM & PANEL CALCULATIONS
FA301	FIRE ALARM SYSTEM CONTROL PANEL DETAILS
FA401	FIRE ALARM SYSTEM DEVICE DETAILS

WIRE LEGEND

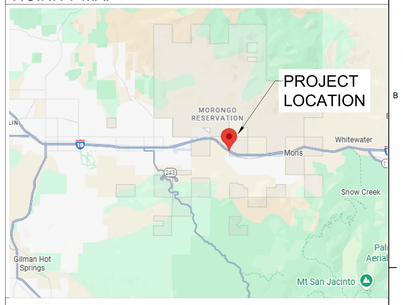
SYMBOL	CONDUCTOR TYPE	CIRCUIT TYPE
D	2 # 18 AWG - TW PR FPL	SLC (DATA)
N	2 # 14 AWG - THHN/THWN	NAC (VISUAL)
X	2 # 14 AWG - THHN/THWN	AUXILIARY POWER
XU	2 # 14 AWG - THHN/THWN	IDC (INITIATING)
NET	SINGLE-MODE FIBER	NETWORK DATA

CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA
½"	0.122 SQ. IN.*	1-¼"	0.598 SQ. IN.*
¾"	0.213 SQ. IN.*	1-½"	0.814 SQ. IN.*
1"	0.346 SQ. IN.*	2"	1.342 SQ. IN.*

* 40% CONDUIT FILL PER NFPA 70

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

VICINITY MAP



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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

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Sheet Title
FIRE ALARM SYSTEM COVER SHEET

Sheet No.
FA001

8/22/2025 11:24:04 AM
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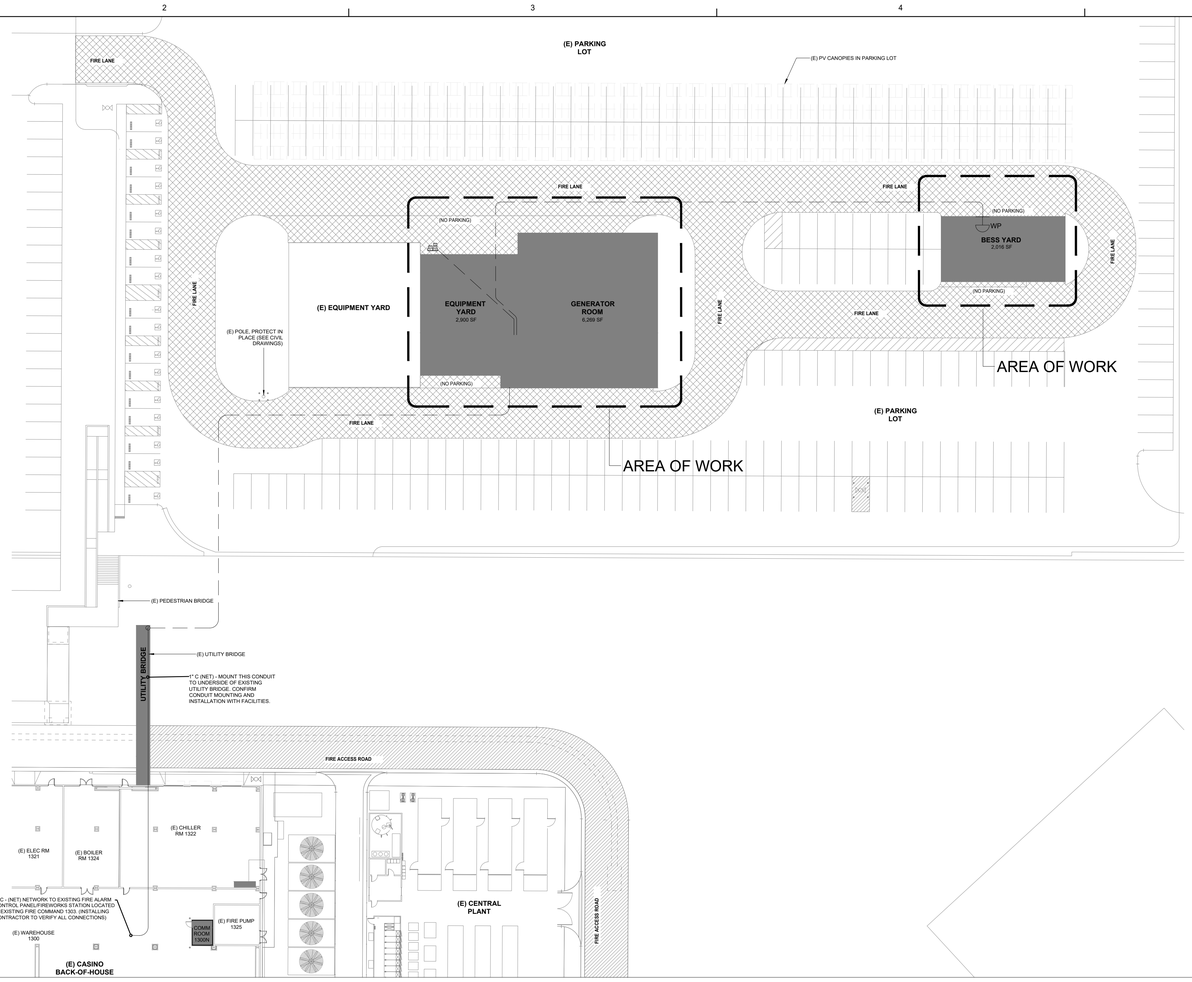
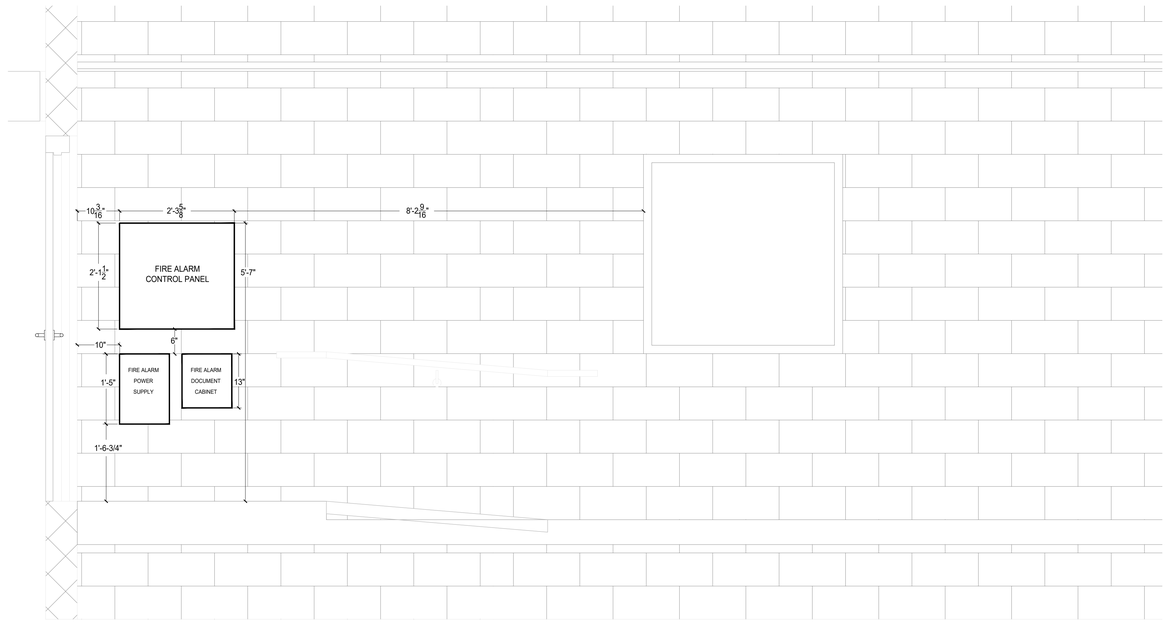


1 FIRE ALARM - PARTIAL SITE PLAN

0 30' 60' 120'
SCALE: 1"= 50'-0"



2 FIRE ALARM CONTROL PANEL ELEVATION DETAIL - ENTRY VESTIBULE 100

NOT TO SCALE

DEVICE LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
TVSS 120	120 VAC SURGE SUPPRESSOR
TVSS 24	24VDC SURGE SUPPRESSOR
DOC	FIRE ALARM DOCUMENT CABINET
J	JUNCTION BOX
F	MANUAL PULL STATION
S	SMOKE DETECTOR
S CO	CARBON MONOXIDE DETECTOR
S	DUCT SMOKE DETECTOR
TS	TAMPER SWITCH
WF	WATER FLOW SWITCH
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
CO15	ADDRESSABLE SYNC OUTPUT MODULE
	HORN STROBE - WALL MOUNT
	STROBE - WALL MOUNT
	120 VAC SPRINKLER WATERFLOW BELL
DCBA	DOUBLE-CHECK BACKFLOW ASSEMBLY
PIV	POST INDICATOR VALVE
	EPO SWITCH (EMERGENCY POWER OFF)
GDS	GAS DETECTION SYSTEM

SHEET NOTES

1. CONNECTION TO DEDICATED 120V CIRCUIT (FURNISHED BY OTHERS) CIRCUIT BREAKER SHALL HAVE A LOCK-ON DEVICE, BE PAINTED RED AND MARKED 'FIRE ALARM'.
2. LOW VOLTAGE SURGE SUPPRESSOR FOR EPO SWITCH LOCATED AT BESS YARD.
3. LOW VOLTAGE SURGE SUPPRESSOR FOR OUTDOOR NOTIFICATION APPLIANCES AND TAMPER SWITCHES LOCATED AT BACKFLOW PREVENTOR AND PIV.
4. FIRE SPRINKLER WATERFLOW MONITORING
5. FIRE SPRINKLER TAMPER MONITORING
6. 120 VAC FIRE SPRINKLER BELL.
7. MONITOR MODULES FOR BACKFLOW AND PIV TAMPER SWITCHES.
8. AHU SHUTDOWN INTERFACE RELAY (TO BE MOUNTED WITHIN 36" OF AHU CONTROLLER AND INSTALLED IN WEATHER-PROOF ENCLOSURE).
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WIRE LEGEND

SYMBOL	CONDUCTOR TYPE	CIRCUIT TYPE
D	2 # 18 AWG - TW PR FPL	SLC (DATA)
N	2 # 14 AWG - THHN/THWN	NAC (VISUAL)
X	2 # 14 AWG - THHN/THWN	AUXILIARY POWER
XU	2 # 14 AWG - THHN/THWN	IDC (INITIATING)
NET	SINGLE-MODE FIBER	NETWORK DATA

CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA
1/2"	0.122 SQ. IN.*	1-1/4"	0.598 SQ. IN.*
3/4"	0.213 SQ. IN.*	1-1/2"	0.814 SQ. IN.*
1"	0.346 SQ. IN.*	2"	1.342 SQ. IN.*

* 40% CONDUIT FILL PER NFPA 70

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DEVICE ADDRESSING LEGEND

EST 4 ADDRESS FORMAT:
NNNCCCDDDD

NNN = NODE NUMBER
CCC = LOCAL RAIL MODULE SLOT ADDRESS
DDDD = DEVICE POINT ADDRESS

4-SDDC1/4-SDDC2

LOOP 1	DETECTORS	NNNCCC001 TO NNNCCC0125
LOOP 1	MODULES	NNNCCC126 TO NNNCCC0250
LOOP 2	DETECTORS	NNNCCC251TO NNNCCC0375
LOOP 2	MODULES	NNNCCC376 TO NNNCCC0500

CONDUIT LEGEND

OVERHEAD CONDUIT

UNDERGROUND CONDUIT

NOTE: ALL CONDUIT TO BE 3/4", UNLESS OTHERWISE NOTED.

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REGISTERED PROFESSIONAL ENGINEER
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SAN DIEGO, CA 92127
+1 619.488.9810
WWW.JENSENHUGHES.COM
JH PROJECT NO.: 1HYA25008

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
FIRE ALARM SITE PLAN AND CONTROL PANEL ELEVATION DETAIL

Sheet No.
FA002

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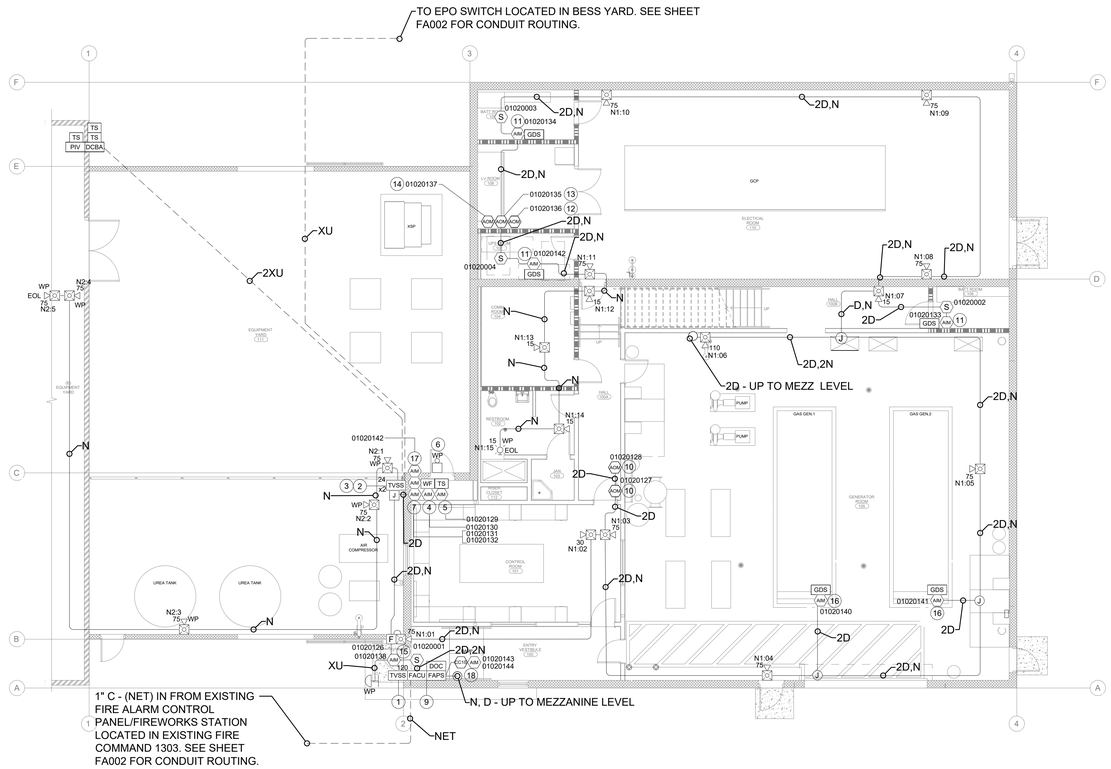
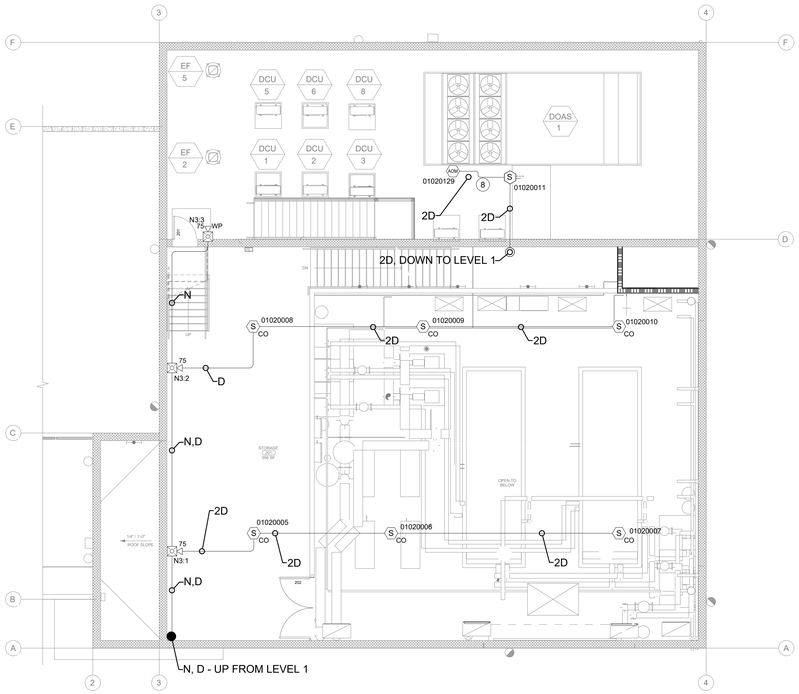


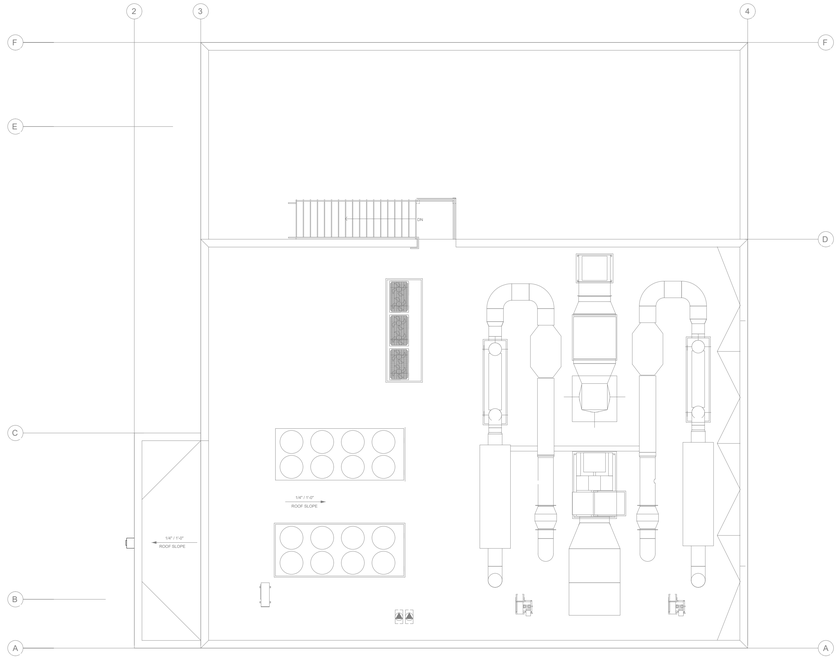
1 FIRE ALARM SYSTEM FLOOR PLANS
1ST FLOOR DEVICE LAYOUT

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



2 FIRE ALARM SYSTEM FLOOR PLANS
MEZZANINE / LOWER ROOF

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



3 FIRE ALARM SYSTEM FLOOR PLANS
UPPER ROOF

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

WALL SCHEDULE

	EXISTING CMU WALL
	CMU WALL - PER WALL TYPE (SEE SHEET A-601)
	1 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
	2 HOUR RATED WALL - PER WALL TYPE (SEE SHEET A-601)
	INTERIOR METAL STUD WALL - PER WALL TYPE (SEE SHEET A-601)

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LOOP 1	MODULES	NNNCCC0126 TO NNNCCC0250
LOOP 2	DETECTORS	NNNCCC2001 TO NNNCCC2375
LOOP 2	MODULES	NNNCCC2376 TO NNNCCC2500

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OVERHEAD CONDUIT
UNDERGROUND CONDUIT

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PHASE 2 - IFC 2026.05.27

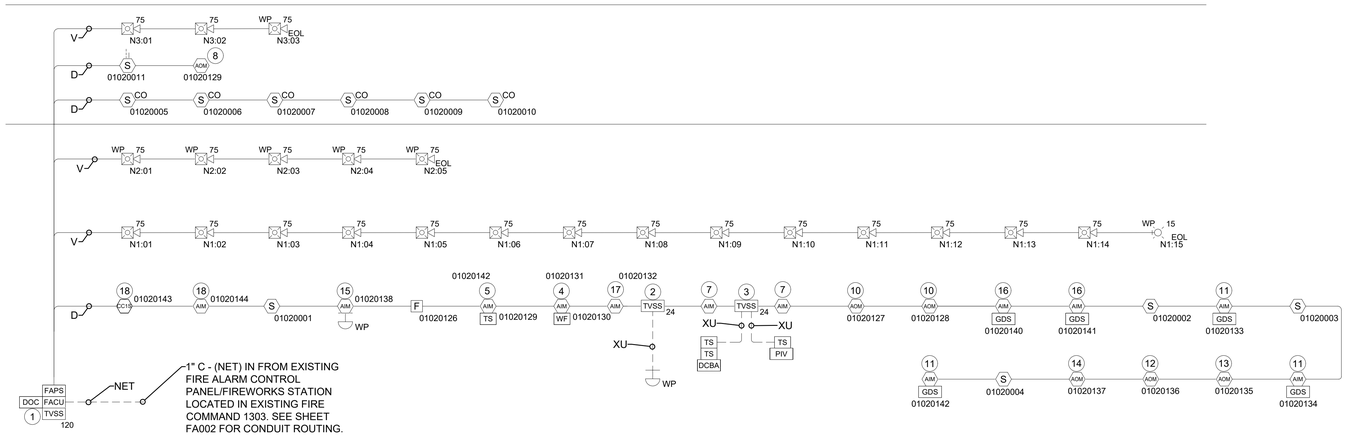
Sheet Title
FIRE ALARM SYSTEM FLOORPLANS

Sheet No.
FA101

FIRE ALARM CONCEPTUAL RISER DIAGRAM

RISER DIAGRAM NOTES

1. THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT IS NOT INTENDED TO ILLUSTRATE EXACT LENGTHS OR NUMBER OF APPLIANCES. IT IS IS INTENDED TO DEMONSTRATE THE DESIGN CONCEPT.
2. ALL CONDUCTORS AND WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, NFPA 72 (2022), AND CALIFORNIA ELECTRIC CODE (2022).
3. ALL NOTIFICATION APPLIANCE CIRCUITS SHALL BE SIZED IN ACCORDANCE WITH VOLTAGE DROP CALCULATIONS (TO BE PRODUCED BY THE INSTALLING CONTRACTOR).
4. ALL TERMINAL CABINETS SHALL BE TREATED AS IF THEY ARE FIRE ALARM CONTROL EQUIPMENT; PROTECTED WITH A SMOKE DETECTOR IN ITS IMMEDIATE VICINITY.
5. ALL PRIMARY POWER CIRCUITS TO CONTROL EQUIPMENT SHALL BE FROM A DEDICATED CIRCUIT, BREAKER SHALL BE PAINTED READ AND MARKED FIRE ALARM, BREAKER LOCATION AND CIRCUIT NUMBER WILL BE LABELED AT THE FIRE ALARM CONTROL PANEL LOCATION. ALL POWER TO THE FIRE ALARM SYSTEM SHALL BE FROM THE ELECTRICAL BREAKER. ALL POWER SHALL BE MONITORED.



FIRE ALARM SYSTEM CALCULATIONS

Edwards System Builder

Job Name: Morongo Casino Cogen Plant
Node No: 1
Node Name: Cogen FACU

Battery Calculations

Battery Periods **** New ****
24 Battery standby supervision period in hours
5 Battery fire alarm period in minutes

Cat No	Description	Stby mA	Alm mA
EST4 System Components			
Local Rail & Communication Modules	**Ok**		
1 4-CPU	Main CPU	230	230
1 4-NET-MM	SFP network media interface, multi mode fiber	35	35
1 3-SSDC2	Signature Single Driver Controller (LRM)	144	204
User Interface Modules			
1 4-3LCD	DISPLAY,LCD MOD W/CABLE	40	93
Power Supplies			
1 4-PPS/M	Primary Power Supply 120V	70	70
Battery Calculations			
	Fire Total Standby & Alarm Currents in mA	519	632

1.2*(Supervisory Hours*Standby Current) + 1.2*(Alarm Hours*Alarm Current) + AC AmpHrs
15.0 Calculated Battery Ampere Hours for Fire
0.0 Calculated Battery Ampere Hours for Carbon Monoxide + Doors
Battery 15.0 Total Ampere Hours required
2 **12V17A** **18 AH Battery**

EMERGENCY POWER BATTERY CALCULATIONS
EST BP10A - FIRE ALARM REMOTE BOOSTER POWER SUPPLY

DESCRIPTION	MODEL NUMBER	STANDBY CURRENT REQUIRED QTY.	CURRENT	TOTAL	ALARM CURRENT REQUIRED QTY.	CURRENT	TOTAL
REMOTE BOOSTER POWER SUPPLY	BPS10A	1	0.070000	0.070000	1	0.270000	0.270000
VISUAL CIRCUIT 'V1'	N/A	1	0.000000	0.000000	1	0.735000	0.735000
VISUAL CIRCUIT 'V2'	N/A	1	0.000000	0.000000	1	0.250000	0.250000
VISUAL CIRCUIT 'V3'	N/A	1	0.000000	0.000000	1	0.100000	0.100000
Spare							
			TOTAL STANDBY	0.070		TOTAL ALARM	1.355

STANDBY TIME REQUIRED 4 X TOTAL STANDBY AMPERAGE 0.070 0.280 AMP HOURS
ALARM TIME REQUIRED 0.083 (5 MIN) X TOTAL ALARM AMPERAGE 1.355 0.113 AMP HOURS
TOTAL POWER 0.393 AMP HOURS
TOTAL POWER x 2.0 DERATING FACTOR 0.472 AMP HOURS

0.000001 = 1 MICRO AMP
0.001 = 1 MILLI AMP
1 = 1 AMP

AMP HOUR REQUIRED	0.472	
BATTERY MODEL #	PS1270	SEALED LEAD ACID
VOLTAGE	12	VOLTS
AMP / HOUR RATING	7	AMP HOUR
MAXIMUM CHARGING CAPACITY	24	AMP HOUR
SPARE CAPACITY	6.529	
QUANTITY BATTERY REQUIRED	2	
WIRING CONFIGURATION	SERIES	

Building **Morongo Cogen**
Panel # **FAPS**

VOLTAGE DROP CALCULATION

Model # (x=Red or White)	Device Current	Circuit N1 Qty	Circuit N1 Current	Circuit N2 Qty	Circuit N2 Current	Circuit N3 Qty	Circuit N3 Current	Circuit Spare Qty	Circuit Spare Current	Total Qty
WGVRF	0.035	1	0.035		--	2	0.070		--	3
G4AVRF	0.050	14	0.700		--		--		--	14
WGAVRF	0.050		--	5	0.250	1	0.050		--	6
Total Current		0.735	Amps	0.250	Amps	0.120	Amps	0.000	Amps	
Distance (Wire Length)		395	Feet	155	Feet	95	Feet		Feet	
Wire Size		14	AWG	14	AWG	14	AWG	14	AWG	
Resistance (per 1000 ft)		3.26	Ohms	3.26	Ohms	3.26	Ohms	3.26	Ohms	
Starting Circuit Voltage		20.40	Volts	20.40	Volts	20.40	Volts	20.40	Volts	
Voltage Drop		1.89	Volts	0.25	Volts	0.07	Volts	0.00	Volts	
Voltage @ End of Circuit		18.51	Volts	20.15	Volts	20.33	Volts	20.40	Volts	

Calculation Method: VOLTAGE DROP = $\frac{2 \times \text{TOTAL CURRENT} \times \text{DISTANCE} \times \text{RESISTANCE}}{1000}$

VOLTAGE @ END OF CIRCUIT = STARTING CIRCUIT VOLTAGE - VOLTAGE DROP

OPERATING VOLTAGE RANGE FOR 24V NOTIFICATION APPLIANCES TO BE 16V-33V

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UNDERGROUND CONDUIT

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FP 1573
FIRE PROTECTION
STATE OF CALIFORNIA

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JH PROJECT NO.: 1HYA25008

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

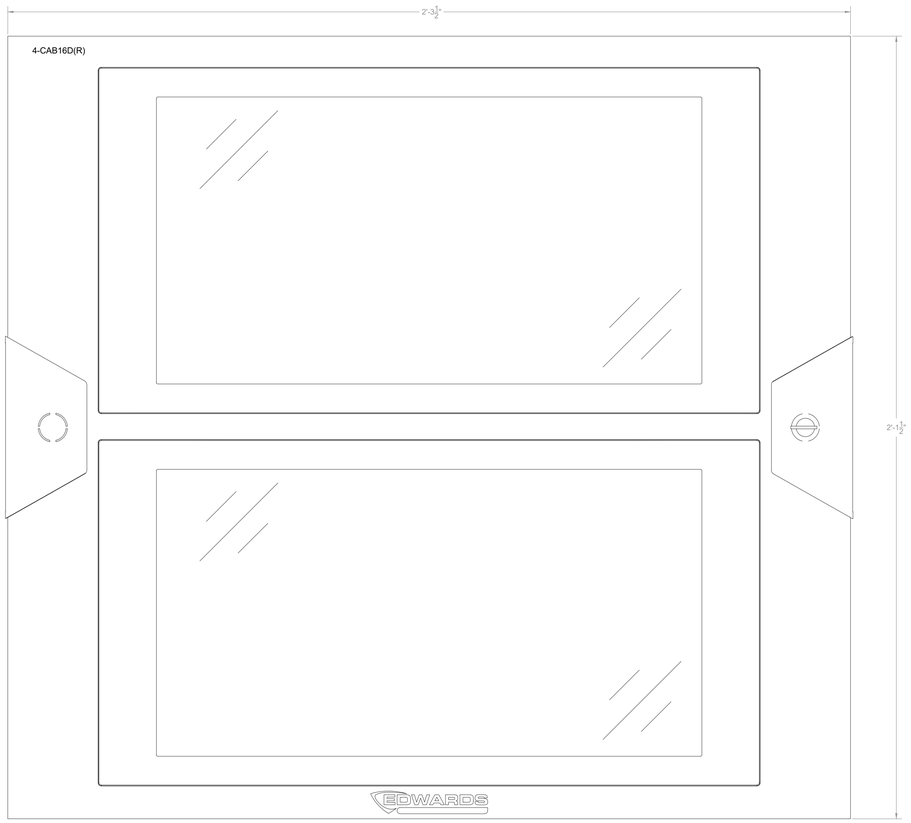
REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.05.27

Sheet Title
FIRE ALARM SYSTEM RISER DIAGRAM AND PANEL CALCULATIONS

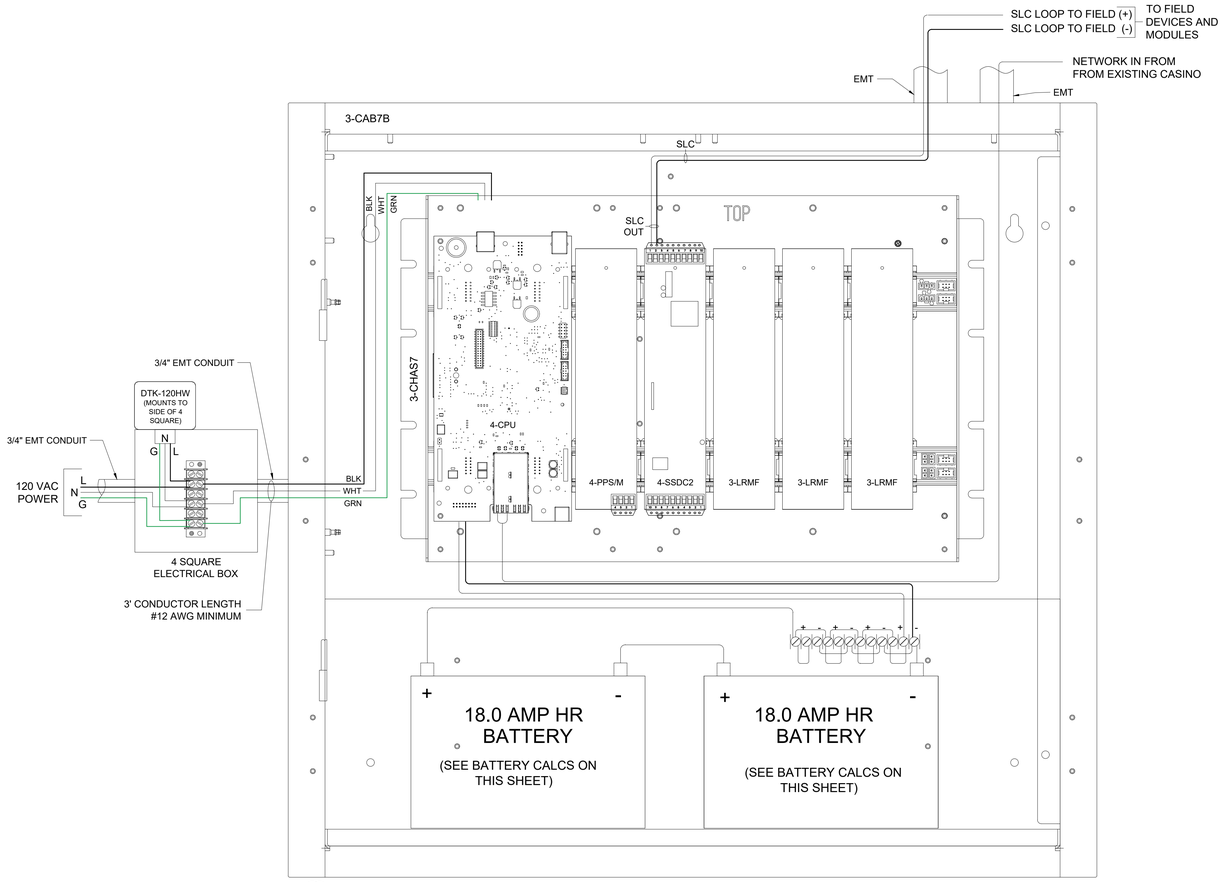
Sheet No.
FA201

8/22/2025 11:24:04 AM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF



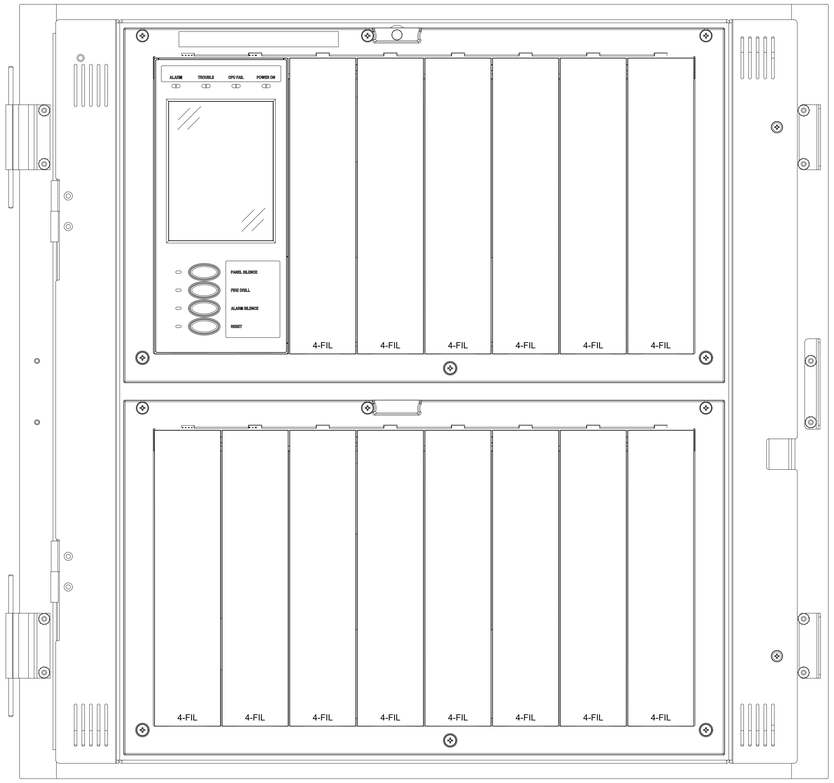
1 FIRE ALARM SYSTEM PANEL DETAILS
FRONT PANEL

SCALE: 6"=1'-0"



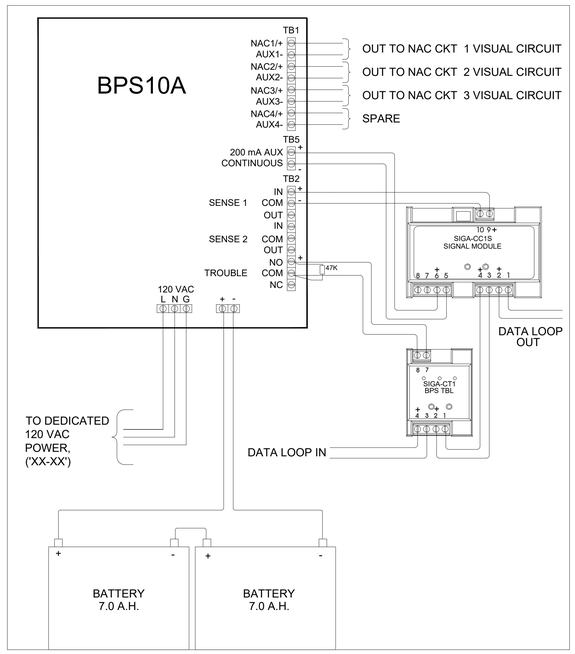
2 FIRE ALARM SYSTEM PANEL DETAILS
LOCAL RAIL LAYER

SCALE: 6"=1'-0"



3 FIRE ALARM SYSTEM PANEL DETAILS
USER INTERFACE LAYER

SCALE: 6"=1'-0"



4 FIRE ALARM POWER SUPPLY WIRING DETAIL

NO SCALE

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PHASE 2 - IFC 2026.05.27

Sheet Title
FIRE ALARM SYSTEM CONTROL PANEL DETAILS

Sheet No.
FA301

8/22/2025 11:24:04 AM
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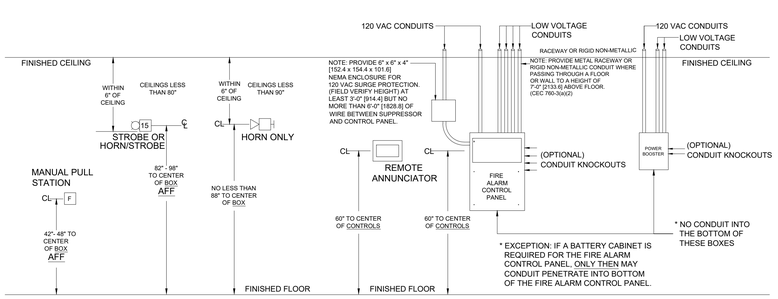
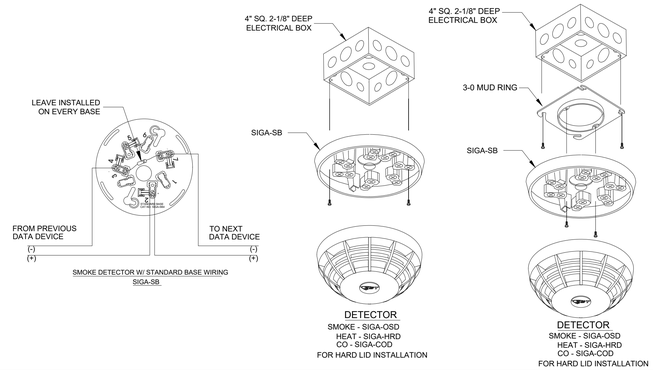
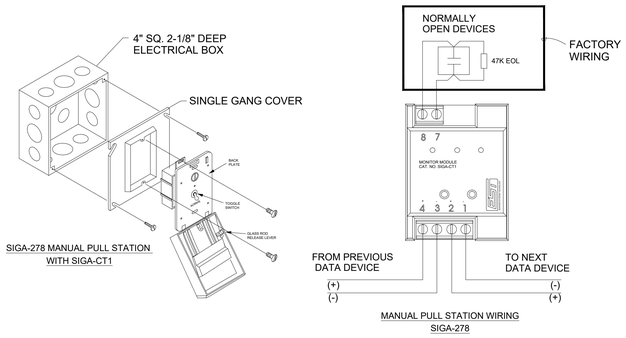
THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.



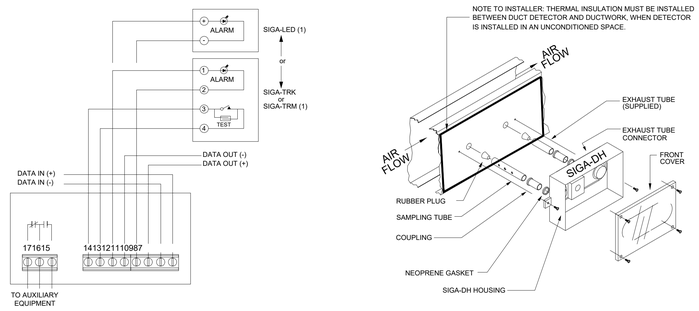
NFPA 72 DEVICE MOUNTING HEIGHTS DETAIL | 1



SMOKE, CO AND HEAT DETECTORS -WIRING DETAILS | 2

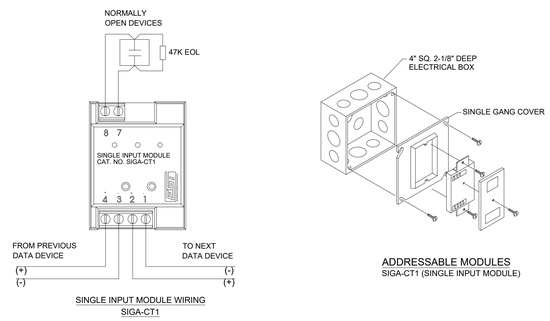


SIGA-278 MANUAL PULL STATION- WIRING DETAIL | 3

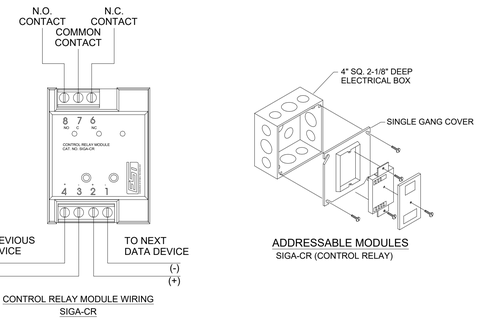


DUCT DETECTOR HOUSING WIRING W/ TEST STATIONS
SIGA-LED / SIGA-TRK / SIGA-TRM

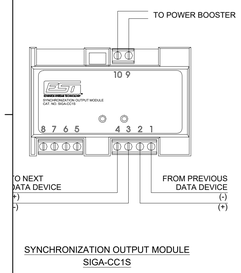
SIGA-SD DUCT DETECTOR W/ SIGA-DH W/ TEST STATION WIRING DETAIL | 4

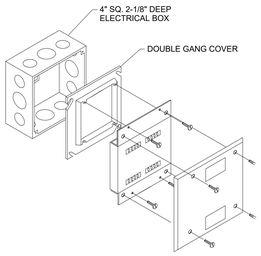


SIGA - CT1 SINGLE INPUT MONITOR MODULE- WIRING DETAIL | 5

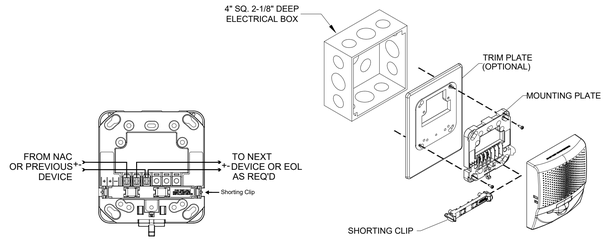


SIGA - CR CONTROL RELAY MODULE- WIRING DETAIL | 6

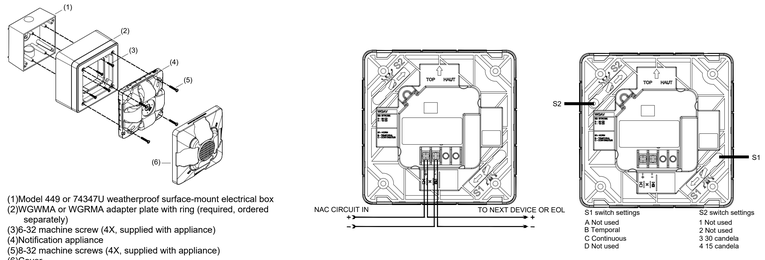




SIGA-CC1S SYNCHRONIZATION OUTPUT MODULE - WIRING DETAIL | 7

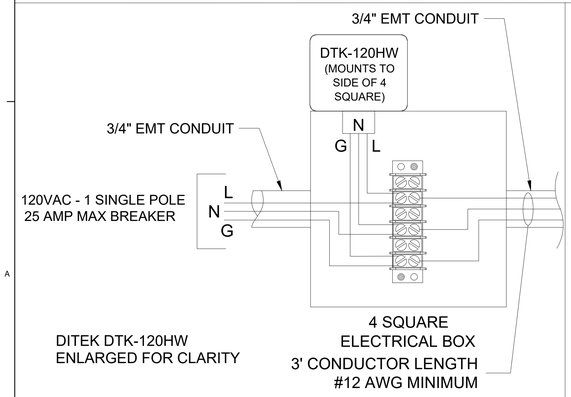


LED G4 SERIES HORN/STROBE - STROBE (WALL) WIRING DETAIL | 8

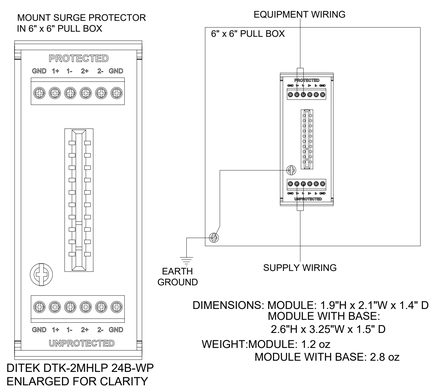


(1)Model 449 or 74347U weatherproof surface-mount electrical box
(2)WGWMA or WGRMA adapter plate with ring (required, ordered separately)
(3)6-32 machine screw (4X, supplied with appliance)
(4)Notification appliance
(5)8-32 machine screws (4X, supplied with appliance)
(6)Cover

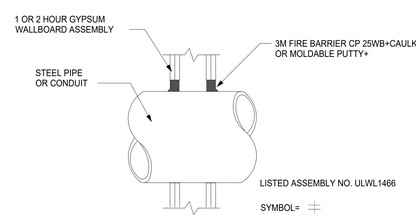
LED WG SERIES HORN/STROBE, STROBE
- WEATHER-PROOF - MOUNTING & WIRING DETAIL | 9



120 VAC SURGE PROTECTOR WIRING DETAIL | 10



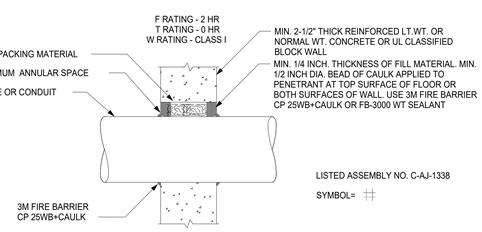
24 VDC SURGE PROTECTOR WIRING DETAIL | 11



3M™ FIRE BARRIER SEALANT CP 25WB+ SHALL BE A ONE COMPONENT, READY-TO-USE, GUN-GRADE, LATEX-BASED, INTUMESCENT FIRE STOP SEALANT CAPABLE OF EXPANDING A MINIMUM OF 3 TIMES ITS DRIED VOLUME WHEN EXPOSED TO TEMPERATURES ABOVE 1000°F (538°C). THE MATERIAL SHALL BE THIXOTROPIC AND SHALL BE APPLICABLE TO OVERHEAD, VERTICAL AND HORIZONTAL FIRESTOP. THE SEALANT SHALL BE LISTED BY INDEPENDENT TEST AGENCIES SUCH AS UL, INTERTEK, OR FM. 3M™ FIRE BARRIER SEALANT CP 25WB+ SHALL BE TESTED TO AND PASS THE CRITERIA OF ASTM E 814 (UL 1479) STANDARD TEST METHOD FOR FIRE TEST OF PENETRATION FIRESTOP SYSTEMS, ASTM E 1966 (UL 2019) STANDARD METHOD FOR FIRE RESISTIVE JOINT SYSTEM AND CAN/ULC S115 STANDARD METHOD OF FIRE TEST OF FIRESTOP SYSTEMS, 3M™FIRE BARRIER SEALANT CP 25WB+ MEETS THE REQUIREMENTS OF THE IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), AND NFPA 101.

3M FIRE STOPPING TO EQUAL FIRE RATING OF PENETRATED WALL KEEP ANNULAR CLEARANCES IN ACCORDANCE WITH NFPA 13 THE HOLES SHALL BE SIZED SUCH THAT THE NOMINAL DIAMETER OF THE HOLES IS 2" LARGER THAN THE PIPE FOR PIPE SIZES 1" NOMINAL TO 3 1/2", AND 4" LARGER THAN THE PIPE FOR PIPE SIZES 4" AND LARGER

PENETRATION AT METAL STUD WALL - UL | 12



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PENETRATION AT CONCRETE WALL - UL | 13

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Sheet Title
FIRE ALARM SYSTEM DEVICE DETAILS

Sheet No.
FA401

4/23/2026 3:23:41 PM
ALL IDEAS, DESIGNS AND ARRANGEMENTS INDICATED ON THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE TO BE USED IN CONNECTION WITH THIS SPECIFIC PROJECT AND SHALL NOT BE USED OTHERWISE WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT. THERE SHALL BE NO CHANGES OR DEVIATION FROM THE DRAWINGS OR ACCOMPANYING SPECIFICATION WITHOUT THE EXPRESSED CONSENT OF THE ARCHITECT.

APPLICABLE CODES/STANDARDS

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA FIRE CODE
- 2022 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2019 NFPA 24 STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCE

SCOPE OF WORK

INSTALLATION OF NEW WET PIPE FIRE SPRINKLER SYSTEM THROUGHOUT PECHANGA COGEN PLANT 2.

DESIGN CRITERIA

LIGHT HAZARD: RESTROOM, ENTRANCE WILL BE PROTECTED WITH FIRE SPRINKLER SYSTEMS HYDRAULICALLY DESIGNED AS FOLLOWS:

1. MINIMUM DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE ENTIRE AREA (WHICHEVER IS LESS).
2. 100-GPM HOSE STREAM ALLOWANCE (NFPA 13 SECTION 19.2.3).
3. QUICK-RESPONSE SPRINKLERS WITH ORDINARY- OR INTERMEDIATE-TEMPERATURE RATINGS.
4. MINIMUM K-5.6 SPRINKLERS WITH A MAXIMUM SPACING OF 225 SQUARE FEET.

ORDINARY HAZARD GROUP 1: ELECTRICAL ROOMS, CONTROL ROOM, ELEVATOR MACHINE ROOM, JANITOR ROOM, TELECOM ROOM, RISER ROOM, AND EQUIPMENT ROOM WILL BE PROTECTED WITH FIRE SPRINKLER SYSTEMS HYDRAULICALLY DESIGNED AS FOLLOWS:

1. MINIMUM DENSITY OF 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET OR THE ENTIRE AREA (WHICHEVER IS LESS).
2. 250-GPM HOSE STREAM ALLOWANCE (NFPA 13 SECTION 19.2.3).
3. QUICK- OR STANDARD-RESPONSE SPRINKLERS WITH INTERMEDIATE-TEMPERATURE RATINGS.
4. MINIMUM K-5.6 SPRINKLERS WITH A MAXIMUM SPACING OF 130 SQUARE FEET.

SPECIAL DESIGN: GENERATOR ROOM AND BATTERY ROOMS WILL BE PROTECTED WITH FIRE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 37 AS FOLLOWS:

1. MINIMUM DENSITY OF 0.30 GPM PER SQUARE FOOT OVER THE MOST REMOTE 2,500 SQUARE FEET OR THE ENTIRE AREA (WHICHEVER IS LESS).
2. 500-GPM HOSE STREAM ALLOWANCE (NFPA 13 SECTION 19.2.3).
3. STANDARD-RESPONSE, CORROSION RESISTANT SPRINKLERS WITH HIGH-TEMPERATURE RATINGS.
4. MINIMUM K-8.0 SPRINKLERS WITH A MAXIMUM SPACING OF 100 SQUARE FEET.

GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE USED FOR EXACT MEASURE OR FABRICATION. CONTRACTOR SHALL INSTALL ALL SPRINKLER SYSTEM COMPONENTS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION OF SYSTEM COMPONENTS WITH ALL OTHER TRADES.
2. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE AND MAINTAIN ADEQUATE HEAT THROUGHOUT ALL AREAS OF THE BUILDING IN ORDER TO MAINTAIN A TEMPERATURE ABOVE 40°F YEAR-ROUND IN ALL LOCATIONS PROTECTED WITH WET PIPE SPRINKLERS AND SYSTEM PIPING
3. ALL EQUIPMENT SHALL BE NEW AND UL LISTED AND WHERE REQUIRED CSFM APPROVED FOR FIRE PROTECTION USE.
4. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND OTHER OWNER REQUIREMENTS.
5. THE PROJECT TECHNICAL SPECIFICATIONS ARE ARE A PART OF AND OTHERWISE COMPLIMENT THESE DRAWINGS. IN CASE OF DISPUTE, THE TECHNICAL SPECIFICATIONS SHALL SUPERCEDE THESE DRAWINGS, AND THE APPLICABLE CODES AND STANDARDS SHALL SUPERCEDE THE TECHNICAL SPECIFICATIONS.
6. IN CASE OF DISPUTE AS TO THE INTENT OF THESE DRAWINGS, OBTAIN ARCHITECT'S/ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING WITH INSTALLATION.
7. CHANGES IN THE LOCATIONS OF SPRINKLERS AND SYSTEM PIPING FROM THOSE SHOWN ON DRAWINGS SHALL BE IDENTIFIED AND APPROVED IN WRITING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECTIFYING UNAUTHORIZED NONCOMPLIANT CHANGES AT NO ADDITIONAL CHARGE TO THE OWNER.
8. THE CONTRACTOR IS SPECIFICALLY RESPONSIBLE FOR ALL OF THE FOLLOWING:
   - A. MEANS AND METHODS OF JOB SAFETY. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
   - B. PREPARING SHOP DRAWINGS IN ACCORDANCE WITH NFPA 13 FOR "WORKING PLANS" AND SUBMITTING CATALOG CUT SHEETS, RESULTS OF THE HYDRANT FLOW TEST, AND HYDRAULIC CALCULATIONS AS REQUIRED BY NFPA 13, OWNER, AND ENGINEER REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER AND ENGINEER IN WRITING FOR THE ABOVE REFERENCED FIRE SPRINKLER SYSTEM DOCUMENTS PRIOR TO FABRICATION AND INSTALLATION.
   - C. PREPARING 'AS-BUILT' DRAWINGS IN ELECTRONIC FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.
   - D. COORDINATING THE FINAL LOCATIONS AND LAYOUTS OF ALL SPRINKLER SYSTEM COMPONENTS.
   - E. COORDINATING WITH ALL OTHER DISCIPLINES INCLUDING THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, FIRE ALARM CONTRACTOR, AND MECHANICAL CONTRACTOR.
   - F. MEETING ALL REQUIREMENTS OF NFPA 13.
9. SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING IDENTIFICATION OF THE FIRE RISER ROOM.
10. THE FIRE DEPARTMENT CONNECTION SHALL BE DESIGNATED BY A SIGN HAVING RAISED OR ENGRAVED LETTERS AT LEAST 1 INCH IN HEIGHT STATING "FDC AUTOSPRK AND STANDPIPE".
11. EACH FLOW SWITCH SHALL BE CONNECTED TO A 10-INCH OUTSIDE 120VAC ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT THE ADDRESS SIDE OF THE BUILDING. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT."

INSTALLATION REQUIREMENTS

1. SPRINKLER SYSTEM INSTALLATION SHALL BE COMPLETED BY C-16 LICENSED SPRINKLER CONTRACTOR LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
2. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
3. EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE LISTED FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL AND SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) APPROVED.
4. THE SPRINKLER CONTRACTOR SHALL COORDINATE INSTALLATION WITH OTHER TRADES DUE TO SITE SPECIFIC MODIFICATIONS SUCH AS DUCT INSTALLATION, LIGHT FIXTURES, CHANGES IN CEILING CONFIGURATION, ETC.
5. NEW FLOOR CONTROL ASSEMBLIES INCLUDING BUTTERFLY INDICATING VALVE WITH TAMPER SWITCH, CHECK VALVE, WATER FLOW SWITCH, AND TEST 'N' DRAIN VALVE SHALL BE INSTALLED ON EACH FLOOR.
6. NEW SPRINKLERS AND SYSTEM PIPING SHALL BE INSTALLED IN APPROXIMATE LOCATIONS SHOWN TO PROVIDE FULL SPRINKLER COVERAGE IN THE AREAS IDENTIFIED. NEW SPRINKLERS SHALL BE LOCATED, POSITIONED, AND OF THE TYPE SPECIFIED ON THE DRAWINGS (WITH GUARDS WHERE SPECIFIED). ALL NEW SYSTEM PIPING SHALL BE INSTALLED CONCEALED WITHIN THE BUILDING CONSTRUCTION UNLESS OTHERWISE NOTED.
7. ALL SPRINKLER LOCATIONS SHALL COMPLY WITH SPACING AND OBSTRUCTION LIMITATIONS OF NFPA 13; TO BE VERIFIED IN-FIELD BY THE CONTRACTOR.
8. ALL NEW SPRINKLERS IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED IN THE CENTER OF 2-FOOT X 2-FOOT CEILING TILES AND THE QUARTER POINT OF 2-FOOT BY 4-FOOT CEILING TILES.
9. ALL SPRINKLERS, SPRINKLER GUARDS, AND SPRINKLER ESCUTCHEONS SHALL BE FACTORY PAINTED.
10. ALL PENETRATIONS IN FIRE BARRIERS CREATED BY THE INSTALLATION OF THE SPRINKLER SYSTEM COMPONENTS SHALL BE PROVIDED WITH A UL LISTED THROUGH PENETRATION FIRE STOP ASSEMBLY IN ACCORDANCE WITH CBC SECTION 714.3.
11. PIPE SLEEVES SHALL BE USED ON PIPING IN CONCRETE PENETRATIONS.
12. ALL PIPE 1-INCH TO 2-INCH IN SIZE SHALL BE ASTM A53, A135, OR A795 SCHEDULE 40 WITH THREADED ENDS AND UL LISTED IRON FITTINGS. ALL PIPING AND FITTINGS SHALL BE FROM AN APPROVED U.S. MANUFACTURER. ANY REQUESTED VARIANCES SPECIFIED BY THE CONTRACTOR SHALL FIRST BE APPROVED BY THE ENGINEER.
13. ALL PIPE 2½-INCH AND LARGER IN SIZE SHALL BE ASTM A53, A135, OR A795 SCHEDULE 10 BLACK STEEL WITH GROOVED ENDS AND UL LISTED MECHANICAL GROOVED FITTINGS. ALL PIPING AND FITTINGS SHALL BE FROM AN APPROVED U.S. MANUFACTURER.
14. HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, CHAPTER 17. ALTERNATE UL AND FM HANGER METHODS ARE ACCEPTED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UL AND FM LITERATURE TO THE PECHANGA FIRE DEPARTMENT AND JENSEN HUGHES FOR APPROVAL PRIOR TO INSTALLATION.
15. BRANCH LINE RESTRAINT IS NOT REQUIRED WHERE BRANCH LINES ARE SUPPORTED BY A ROD LESS THAN 6 INCHES MEASURED BETWEEN THE TOP OF PIPE AND THE POINT OF ATTACHMENT TO THE STRUCTURAL ELEMENT. FOR AREAS WHERE THE BRANCH LINE HANGER ROD EXCEEDS 6-INCHES, PROVIDE BRANCH LINE RESTRAINT.
16. LATERAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED MAINS AND CROSS MAINS REGARDLESS OF SIZE AND ON ALL BRANCH LINES AND OTHER PIPING WITH A DIAMETER OF 2½-INCH AND LARGER.
17. LONGITUDINAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED MAINS AND CROSS MAINS.
18. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED ON PIPES LARGER THAN 2 INCHES IN ACCORDANCE WITH NFPA 13 SECTION 18.2.3.1 AND AS FOLLOWS:
   - A. WITHIN 24 INCHES OF THE TOP AND BOTTOM OF ALL RISERS OVER 7 FEET IN HEIGHT.
   - B. WITHIN 24 INCHES OF THE TOP OR BOTTOM OF ALL RISERS BETWEEN 3 AND 7 FEET IN HEIGHT.
   - C. WITHIN 12 INCHES ABOVE AND 24 INCHES BELOW THE FLOOR WHERE RISERS PENETRATE A FLOOR.
   - D. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 1 FOOT OF THE WALL SURFACE, UNLESS CLEARANCE IS PROVIDED IN ACCORDANCE WITH NFPA 13 SECTION 18.4.
   - E. WITHIN 24 INCHES OF BUILDING EXPANSION JOINTS.
   - F. WITHIN 24 INCHES OF THE TOP OF DROPS EXCEEDING 15 FEET IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
   - G. WITHIN 24 INCHES ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
   - H. WITHIN 24 INCHES OF THE TOP AND BOTTOM OF DROPS TO HOSE LINES, RACK SPRINKLERS, AND MEZZANINES, REGARDLESS OF PIPE SIZE.
19. LOW POINT DRAINS SHALL BE PROVIDED IN ACCORDANCE NFPA 13 AND SHALL BE DISPLAYED ON SHOP DRAWINGS.

TESTING REQUIREMENTS AND CLOSE-OUT

1. THE ENTIRE SYSTEM SHALL BE FLUSHED.
2. PROVIDE A HYDROSTATIC TEST IN ACCORDANCE WITH NFPA 13; AT 200 PSI OR 50 PSI ABOVE MAXIMUM WORKING PRESSURE (WHICHEVER IS GREATER) FOR TWO HOURS. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY LEAKS ON ALL PIPING, FITTINGS, SPRINKLERS, AND COMPONENTS AS A RESULT OF THE HYDROSTATIC TEST.
3. UPON SUCCESSFUL COMPLETION OF THE SCOPE OF WORK PROVIDED HEREIN, THE CONTRACTOR SHALL SUBMIT AN NFPA 13 "MATERIALS AND TEST CERTIFICATE FOR ABOVE GROUND PIPE", AND THE AS-BUILT DRAWINGS FOR RECORD.
4. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND SPARE SPRINKLER CABINETS WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13. THE STOCK OF SPARE SPRINKLERS SHALL INCLUDE A MINIMUM OF TWO OF EACH TYPE AND RATING INSTALLED AND A MINIMUM OF 24 SPARE SPRINKLERS IN TOTAL SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13 SECTION 16.2.7.

HYDRANT FLOW TEST

Morongo Band of Mission Indians
12700 Pumarra Rd, Banning Ca 92223

FLOW TEST REPORT FOR 173

Location: Closest Address Unknown Test By: Joseph Clark
Date: 2025-08-18
Time: 07:09:10

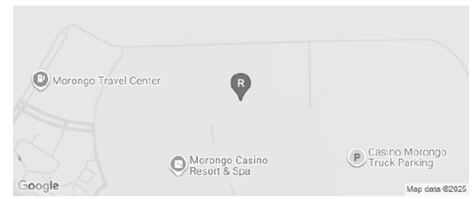
SYSTEM DATA

Size of Main: 12 Dead End: Yes Looped: No
Comments:

TEST DATA

Location of test hydrants: Residual hydrant: Closest Address Unknown
Flow hydrant A: N/A
Flow hydrant B: N/A
Flow hydrant C: N/A
Flow hydrant D: N/A
Static pressure: 60

Test No.	No. of Hydrants	Outlet Size (in)	Outlet Coeeff	Residual Pressure (psig)	Pitot Pressure (psig)	GPM	GPM @ 20psi	Duration (Mins)	Comments
1	1	4	0.8	52	21	1750	4173	1	



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SHEET LIST

SHEET NUMBER	SHEET NAME
FP-001	FIRE PROTECTION GENERAL NOTES
FP-100	SITE UTILITY PLAN
FP-101	LEVEL 1 - FIRE SPRINKLER PLAN
FP-102	MEZZANINE - FIRE SPRINKLER PLAN
FP-501	FIRE SPRINKLER DETAILS
FP-502	SEISMIC BRACING DETAILS

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WWW.JENSENHUGHES.COM
PROJECT NUMBER: 1HYA25008

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

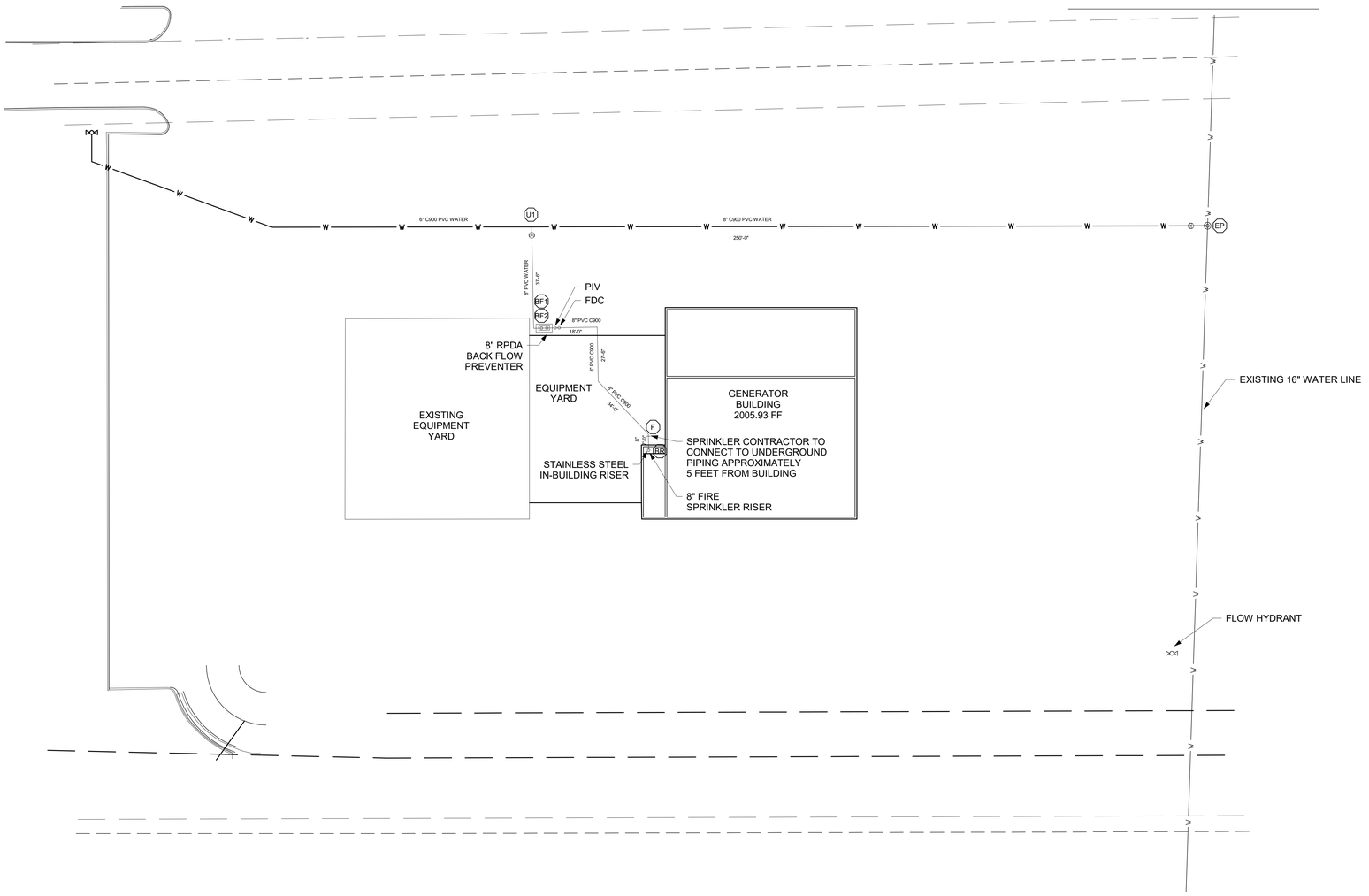
PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
FIRE PROTECTION GENERAL NOTES

Sheet No.
FP-001



1 SITE UTILITY PLAN (FOR HYDRAULIC REFERENCE ONLY)

1" = 20'-0"

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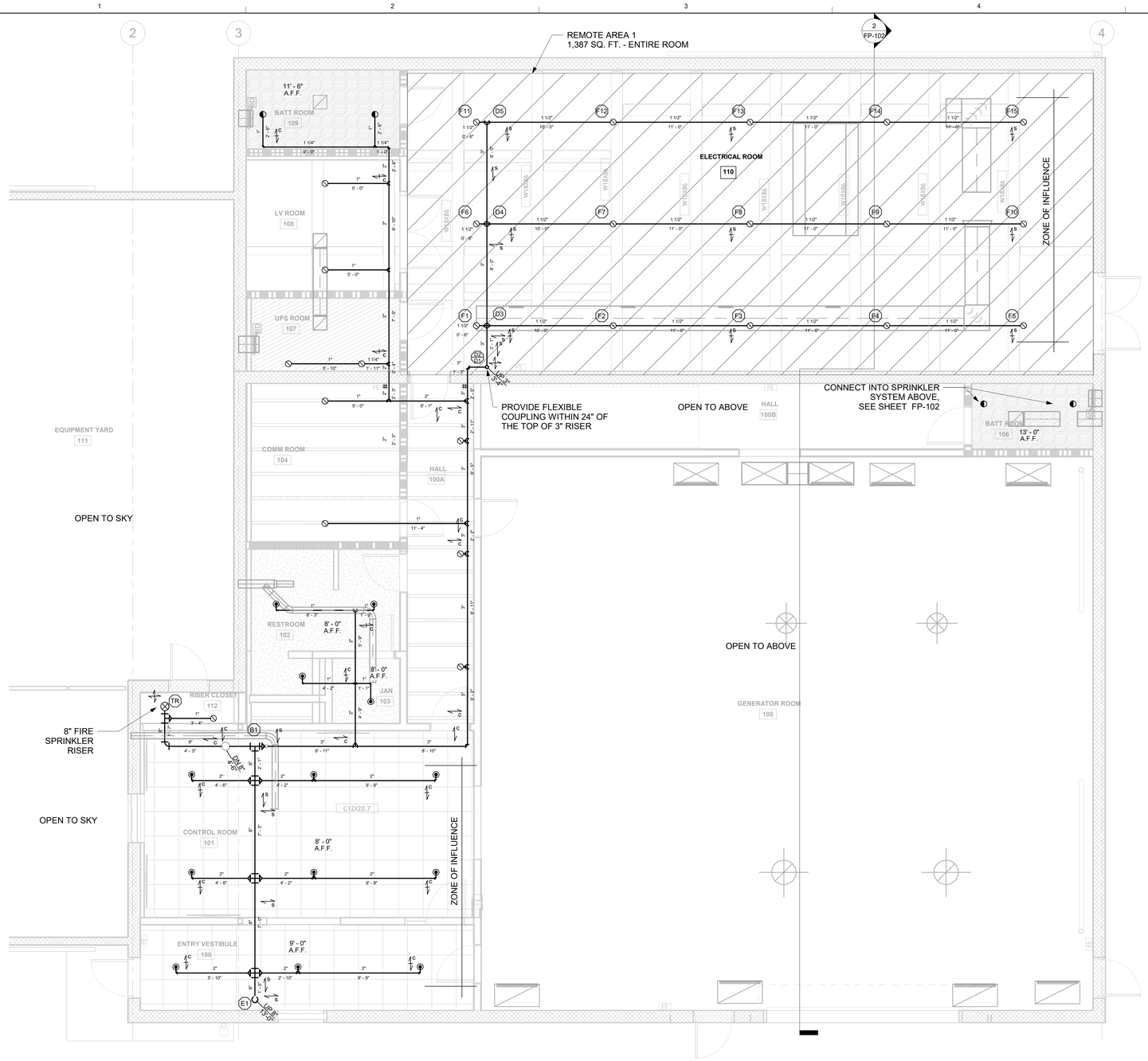
Sheet Title
SITE UTILITY PLAN

Sheet No.
FP-100



1 LEVEL 01 - FIRE SPRINKLER LAYOUT

1/4" = 1'-0"

N

HYDRAULIC CALCULATIONS

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM. REMOTE AREA IS A TREE SYSTEM FED FROM A SMALL GRID.

LOCATION	AREA 1 - ELECTRICAL ROOM
NO. OF SPRINKLERS	15

BASIS OF DESIGN

1. DENSITY	0.15 GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	1,387 SQ. FT.

SYSTEM DEMAND AT FLANGE ON THE RISER

1. GPM DISCHARGE	240 GPM
2. RESIDUAL PRESSURE	21 PSI

TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM - 250 GPM

REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE WATER SUPPLY SOURCE:

1. GPM DISCHARGE	489 GPM
2. RESIDUAL PRESSURE	35 PSI

QUICK-RESPONSE, PENDENT SPRINKLERS
TYCO TY3131 K-5.6

15.0 GPM AT 7.2 PSI REQUIRED FROM HYDRAULICALLY MOST DEMANDING SPRINKLER

PROTECTION AREA PER SPRINKLER:100 SQ. FT.

NFPA 13, 2022 EDITION

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MANUFACTURER	MODEL/SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
○	QUICK RESPONSE UPRIGHT SPRINKLER	TYCO	TY-FRB	8.0	286° F	BRASS	TY4831	71
◐	QUICK RESPONSE PENDENT SPRINKLER	TYCO	TY-FRB	8.0	286° F	BRASS	TY4931	4
⊘	QUICK RESPONSE UPRIGHT SPRINKLER	TYCO	TY-FRB	5.6	200° F	BRASS	TY3131	25
◉	RECESSED QUICK RESPONSE PENDENT SPRINKLER	TYCO	TY-FRB	5.6	155° F	WHITE	TY3231	13
								0
								0
HEAD CAB'T & WRENCH(ES) PROVIDED				TOTAL COUNT THIS BUILDING =				113

NOTE: WHERE SPRINKLERS ARE EXPOSED TO ATMOSPHERIC CONDITIONS PROVIDE CORROSION PROTECTION.
WHERE SURFACE MOUNTED LIGHTS OCCUR, INSTALL 401 CANOPY TYPE.

SYMBOL LEGEND

⊗	SPRINKLER RISER
	4 WAY EARTHQUAKE BRACE
S	LATERAL BRACE - STEEL I-BEAM
S	LONGITUDINAL BRACE - STEEL I-BEAM
C	LONGITUDINAL BRACE - STEEL C-CHANNEL
C	LONGITUDINAL BRACE - STEEL C-CHANNEL
S	BRANCH LINE RESTRAINT - STEEL I-BEAM
C	BRANCH LINE RESTRAINT - STEEL C-CHANNEL
C	BRANCH LINE RESTRAINT - CONCRETE OVER METAL DECK
◯	PIPE UP / DOWN
#	PIPE PENETRATION THROUGH CMU WALL

WALL TYPE LEGEND

	EXISTING CMU WALL
	CMU WALL
	1 HOUR RATED WALL
	2 HOUR RATED WALL

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49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
LEVEL 1 - FIRE SPRINKLER PLAN

Sheet No.
FP-101

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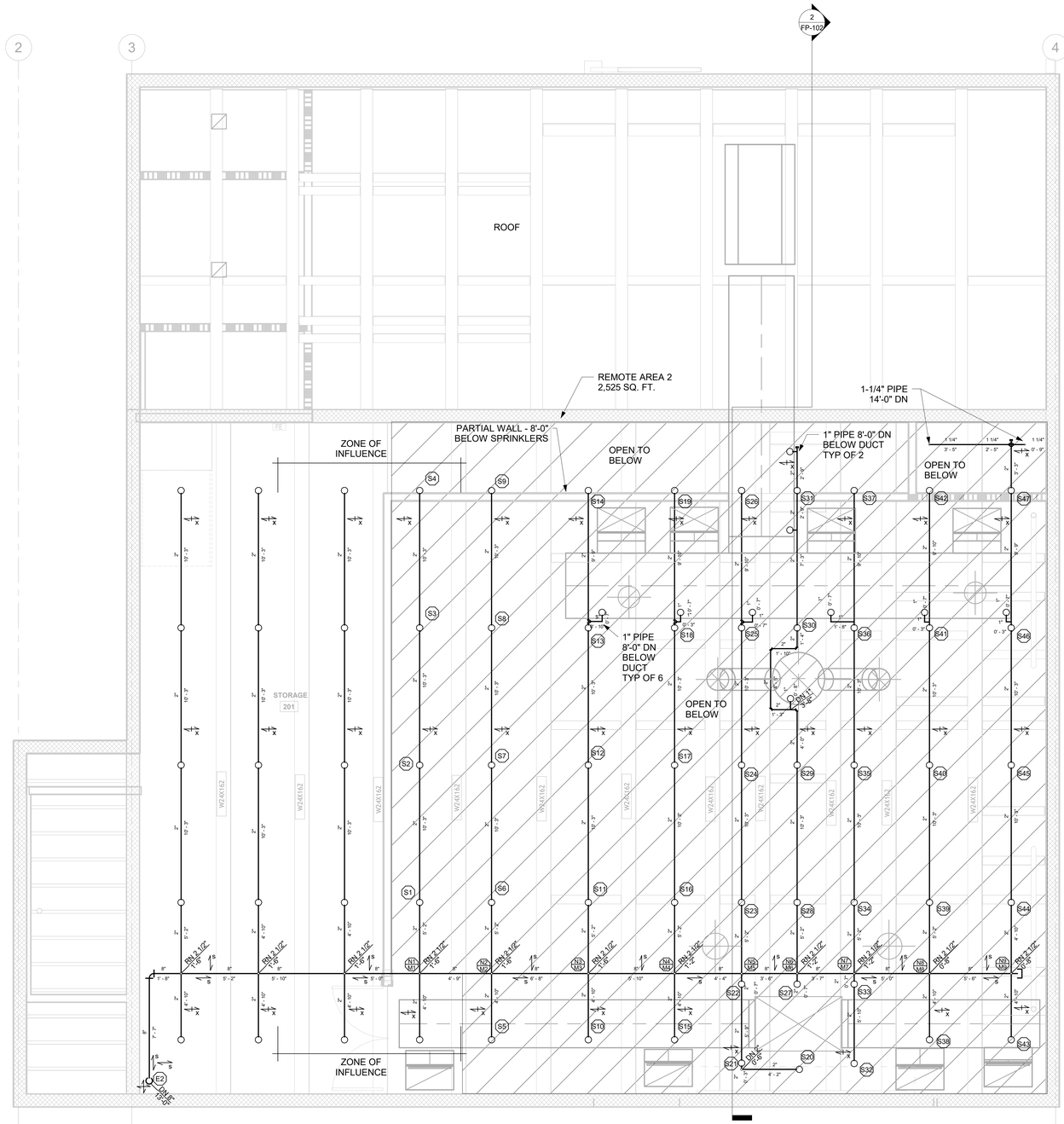


1 MEZZANINE - FIRE SPRINKLER LAYOUT

1/4" = 1'-0"

HYDRAULIC CALCULATIONS

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM. REMOTE AREA IS A TREE SYSTEM FED FROM A SMALL GRID.

LOCATION	AREA 2 - GENERATOR ROOM
NO. OF SPRINKLERS	47

BASIS OF DESIGN

1. DENSITY	0.3 GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	2,525 SQ. FT.

SYSTEM DEMAND AT FLANGE ON THE RISER

1. GPM DISCHARGE	1195.8 GPM
2. RESIDUAL PRESSURE	27.9 PSI

TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM - 500 GPM

REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE WATER SUPPLY SOURCE:

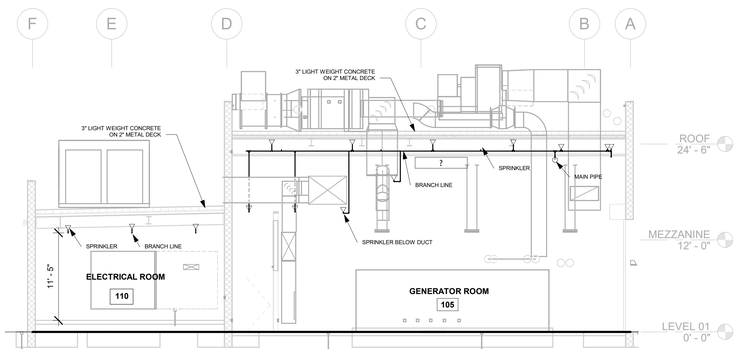
1. GPM DISCHARGE	1695.8 GPM
2. RESIDUAL PRESSURE	45.4 PSI

QUICK-RESPONSE, PENDENT SPRINKLERS
TYCO TY4131 K-8.0

24 GPM AT 10.2 PSI REQUIRED FROM HYDRAULICALLY MOST DEMANDING SPRINKLER

PROTECTION AREA PER SPRINKLER:80 SQ. FT.

NFPA 13, 2022 EDITION



2 BUILDING SECTION

1/8" = 1'-0"

N

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MANUFACTURER	MODEL/SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
○	QUICK RESPONSE UPRIGHT SPRINKLER	TYCO	TY-FRB	8.0	286° F	BRASS	TY4831	71
◐	QUICK RESPONSE PENDENT SPRINKLER	TYCO	TY-FRB	8.0	286° F	BRASS	TY4931	4
⊘	QUICK RESPONSE UPRIGHT SPRINKLER	TYCO	TY-FRB	5.6	200° F	BRASS	TY3131	25
◉	RECESSED QUICK RESPONSE PENDENT SPRINKLER	TYCO	TY-FRB	5.6	155° F	WHITE	TY3231	13
								0
								0
	HEAD CAB'T & WRENCH(ES) PROVIDED			TOTAL COUNT THIS BUILDING =				113

NOTE: WHERE SPRINKLERS ARE EXPOSED TO ATMOSPHERIC CONDITIONS PROVIDE CORROSION PROTECTION.
WHERE SURFACE MOUNTED LIGHTS OCCUR, INSTALL 401 CANOPY TYPE.

WALL TYPE LEGEND

- EXISTING CMU WALL
- CMU WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

SYMBOL LEGEND

⊗	SPRINKLER RISER
	4 WAY EARTHQUAKE BRACE
s	LATERAL BRACE - STEEL I-BEAM
	LONGITUDINAL BRACE - STEEL I-BEAM
c	LONGITUDINAL BRACE - STEEL C-CHANNEL
c	LONGITUDINAL BRACE - STEEL C-CHANNEL
	BRANCH LINE RESTRAINT - STEEL I-BEAM
c	BRANCH LINE RESTRAINT - STEEL C-CHANNEL
c	BRANCH LINE RESTRAINT - CONCRETE OVER METAL DECK
○	PIPE UP / DOWN
#	PIPE PENETRATION THROUGH CMU WALL

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PROJECT NUMBER: 1HYA25008

MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
MEZZANINE - FIRE SPRINKLER PLAN

Sheet No.
FP-102

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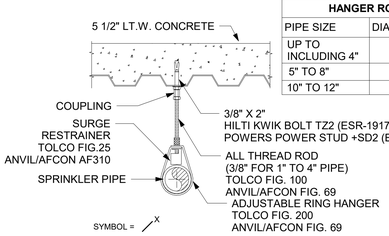
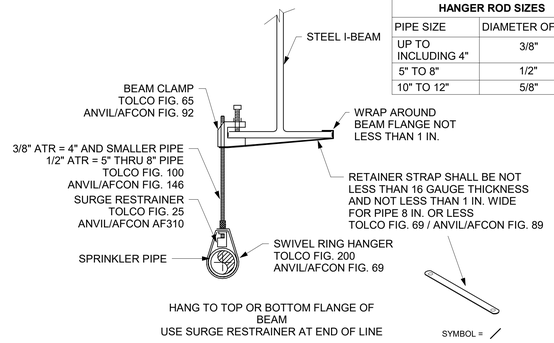


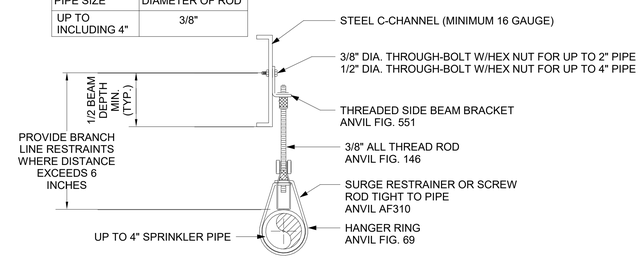
HANGER ROD SIZES	
PIPE SIZE	DIAMETER OF ROD
UP TO INCLUDING 4"	3/8"
5" TO 8"	1/2"
10" TO 12"	5/8"

1 HANGER AT CONCRETE OVER METAL DECK
NTS



HANGER ROD SIZES	
PIPE SIZE	DIAMETER OF ROD
UP TO INCLUDING 4"	3/8"
5" TO 8"	1/2"
10" TO 12"	5/8"

2 HANGER AT STEEL BEAM
NTS



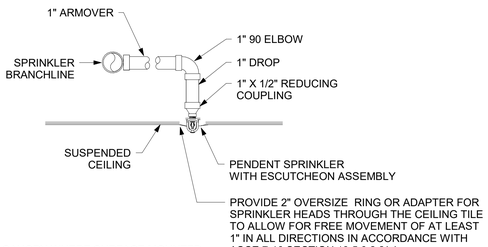
HANGER ROD SIZES	
PIPE SIZE	DIAMETER OF ROD
UP TO INCLUDING 4"	3/8"

3 HANGER AT C-CHANNEL
12" = 1'-0"

TABLE 9.2.2.1 (A) MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)

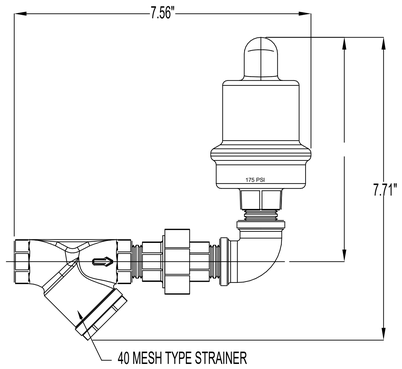
	NOMINAL PIPE SIZE (IN.)											
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	10-0	N/A	N/A	N/A	N/A
DUCTILE-IRON PIPE	N/A	N/A	N/A	N/A	N/A	N/A	15-0	15-0	15-0	N/A	15-0	15-0

4 MAXIMUM DISTANCE BETWEEN HANGERS
NTS

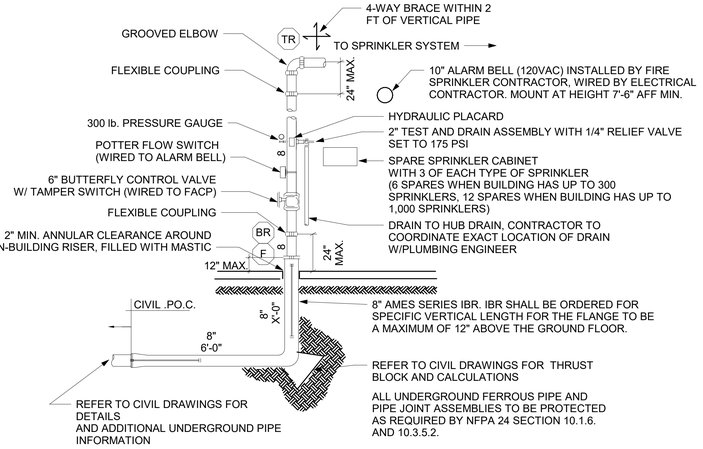


NOTE:
INSTALL 401 CANOPY WHERE SURFACE MOUNTED LIGHTS ARE USED. DROP TO CENTER OR QUARTER POINT ON TILE.

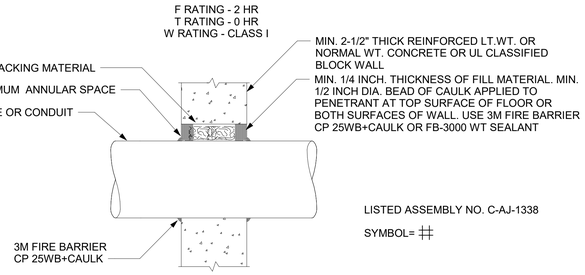
5 ARMOVER DETAIL - BASIC
12" = 1'-0"



6 AIR VENT DETAIL
12" = 1'-0"



7 RISER DETAIL
12" = 1'-0"



3M™ FIRE BARRIER SEALANT CP 25WB+ SHALL BE A ONE COMPONENT, READY-TO-USE, GUN-GRADE, LATEX-BASED, INTUMESCENT FIRE STOP SEALANT CAPABLE OF EXPANDING A MINIMUM OF 3 TIMES ITS DRIED VOLUME WHEN EXPOSED TO TEMPERATURES ABOVE 1000°F (538°C). THE MATERIAL SHALL BE THIXOTROPIC AND SHALL BE APPLICABLE TO OVERHEAD, VERTICAL AND HORIZONTAL FIRESTOP. THE SEALANT SHALL BE LISTED BY INDEPENDENT TEST AGENCIES SUCH AS UL, INTERTEK, OR FM. 3M™ FIRE BARRIER SEALANT CP 25WB+ SHALL BE TESTED TO AND PASS THE CRITERIA OF ASTM E 814 (UL 1479) STANDARD TEST METHOD FOR FIRE TEST OF PENETRATION FIRESTOP SYSTEMS, ASTM E 1966 (UL 2019) STANDARD METHOD FOR FIRE RESISTIVE JOINT SYSTEM AND CAN/ULC S115 STANDARD METHOD OF FIRE TEST OF FIRESTOP SYSTEMS, 3M™FIRE BARRIER SEALANT CP 25WB+ MEETS THE REQUIREMENTS OF THE IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), AND NFPA 101.

3M FIRE STOPPING TO EQUAL FIRE RATING OF PENETRATED WALL KEEP ANNULAR CLEARANCES IN ACCORDANCE WITH NFPA 13 THE HOLES SHALL BE SIZED SUCH THAT THE NOMINAL DIAMETER OF THE HOLES IS 2" LARGER THAN THE PIPE FOR PIPE SIZES 1" NOMINAL TO 3 1/2", AND 4" LARGER THAN THE PIPE FOR PIPE SIZES 4" AND LARGER

8 PENETRATION AT CONCRETE WALL - UL
NTS

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REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
FIRE SPRINKLER DETAILS

Sheet No.
FP-501

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M - COGEN - SEISMIC BRACE CALCULATIONS

Seismic Project	Morongo Cogen - Phase 2	**Brace Name**	M - Cogen
Standard	NFPA 13-2022	**Drawing Reference**	
Brace Type	Lateral	**Approval Agency**	FM Approved

STRUCTURE INFORMATION

Structure	I-Beam/joist
Substrate	Horizontal Beam Flange
Thickness	0.25 in.-1.25 in.
Load Orientation	Perpendicular to Beam

BRACE INFORMATION

Brace Member	1 NPS Sch 40
Brace Length Max	7 ft 0 in
Brace Angle	45° - 90°
Least Radius of Gyration	0.421 in.
l/r Ratio Max	200
Max Horizontal Load	1,310 lbf.

FASTENER INFORMATION

Fastener Name	N/A

SEISMIC BRACE ATTACHMENTS

	Model	Size	Adj. Load
Structural Att.	AF086	N/A	1,110 lbf.
Swivel Att.	AF700	1/2"	1,711 lbf.
Pipe Att.	AF730	8 NPS	1,479 lbf.

See Appendix A for alternate seismic brace attachments.
All seismic brace attachments manufactured by ASC Engineered Solutions.

** - denotes hardware shown with the bolt head or nut broken off, as per the product installation instructions*
Net Vertical Reaction Forces do not need to be addressed per NFPA 13-2022.

SPRINKLER SYSTEM LOAD CALCULATION ($F_{PW} = C_p*W_p$)
$C_p = 0.944$

Qty	Line	Description	Pipe Size/Type	Length	Weight/ft	Weight/Line	Total Weight
1	Main	Braced Pipe	8 NPS Steel Sch 10	14.00 ft.	40.08 lb/ft.	561.12 lb.	561.12 lb.
1	Branch 1	Segment A	2 NPS Steel Sch 40	42.00 ft.	5.13 lb/ft.	215.46 lb.	215.46 lb.
1	Branch 2	Segment A	2 NPS Steel Sch 40	42.00 ft.	5.13 lb/ft.	215.46 lb.	215.46 lb.

Weakest Main Size	Spacing	Max Fpw
8 NPS Steel Sch 10	20 ft.	4,039 lbf.

Total System Weight	992.04 lb.
System Design Weight (W_p)	1,141.00 lb.
Horizontal Seismic Load (Fpw)	1,078 lbf.

2

M - COGEN - SEISMIC BRACE CALCULATIONS

Seismic Project	Morongo Cogen - Phase 2	**Brace Name**	M - Cogen
Standard	NFPA 13-2022	**Drawing Reference**	
Brace Type	Longitudinal	**Approval Agency**	FM Approved

STRUCTURE INFORMATION

Structure	I-Beam/joist
Substrate	Horizontal Beam Flange
Thickness	0.25 in.-1.25 in.
Load Orientation	Perpendicular to Beam

BRACE INFORMATION

Brace Member	1 NPS Sch 40
Brace Length Max	7 ft 0 in
Brace Angle	45° - 90°
Least Radius of Gyration	0.421 in.
l/r Ratio Max	200
Max Horizontal Load	1,310 lbf.

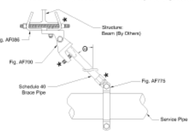
FASTENER INFORMATION

Fastener Name	N/A

SEISMIC BRACE ATTACHMENTS

	Model	Size	Adj. Load
Structural Att.	AF086	N/A	1,110 lbf.
Swivel Att.	AF700	1/2"	1,711 lbf.
Pipe Att.	AF775	8 NPS x 1 NPS	777 lbf.

See Appendix A for alternate seismic brace attachments.
All seismic brace attachments manufactured by ASC Engineered Solutions.



** - denotes hardware shown with the bolt head or nut broken off, as per the product installation instructions*
Net Vertical Reaction Forces do not need to be addressed per NFPA 13-2022.

SPRINKLER SYSTEM LOAD CALCULATION ($F_{PW} = C_p*W_p$)
$C_p = 0.944$

Qty	Line	Description	Pipe Size/Type	Length	Weight/ft	Weight/Line	Total Weight
1	Main	Braced Pipe	8 NPS Steel Sch 10	15.00 ft.	40.08 lb/ft.	601.20 lb.	601.20 lb.

Total System Weight	601.20 lb.
System Design Weight (W_p)	692.00 lb.
Horizontal Seismic Load (Fpw)	654 lbf.

3

M - COGEN - SEISMIC BRACE CALCULATIONS

Seismic Project	Morongo Cogen - Phase 2	**Brace Name**	M - Cogen
Standard	NFPA 13-2022	**Drawing Reference**	
Brace Type	Lateral	**Approval Agency**	FM Approved

STRUCTURE INFORMATION

Structure	I-Beam/joist
Substrate	Horizontal Beam Flange
Thickness	0.25 in.-1.25 in.
Load Orientation	Perpendicular to Beam

BRACE INFORMATION

Brace Member	1 1/2 NPS Sch 40
Brace Length Max	10 ft 4 in
Brace Angle	45° - 90°
Least Radius of Gyration	0.623 in.
l/r Ratio Max	200
Max Horizontal Load	2,119 lbf.

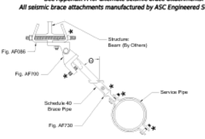
FASTENER INFORMATION

Fastener Name	N/A

SEISMIC BRACE ATTACHMENTS

	Model	Size	Adj. Load
Structural Att.	AF086	N/A	1,110 lbf.
Swivel Att.	AF700	1/2"	1,711 lbf.
Pipe Att.	AF730	3 NPS	1,500 lbf.

See Appendix A for alternate seismic brace attachments.
All seismic brace attachments manufactured by ASC Engineered Solutions.



** - denotes hardware shown with the bolt head or nut broken off, as per the product installation instructions*
Net Vertical Reaction Forces do not need to be addressed per NFPA 13-2022.

SPRINKLER SYSTEM LOAD CALCULATION ($F_{PW} = C_p*W_p$)
$C_p = 0.944$

Qty	Line	Description	Pipe Size/Type	Length	Weight/ft	Weight/Line	Total Weight
1	Main	Braced Pipe	3 NPS Steel Sch 10	20.00 ft.	7.94 lb/ft.	158.80 lb.	158.80 lb.
1	Branch 1	Segment A	1 1/2 NPS Steel Sch 40	45.00 ft.	3.61 lb/ft.	162.45 lb.	162.45 lb.
1	Branch 2	Segment A	1 1/2 NPS Steel Sch 40	45.00 ft.	3.61 lb/ft.	162.45 lb.	162.45 lb.
1	Branch 3	Segment A	1 1/2 NPS Steel Sch 40	45.00 ft.	3.61 lb/ft.	162.45 lb.	162.45 lb.

Weakest Main Size	Spacing	Max Fpw
3 NPS Steel Sch 10	20 ft.	966 lbf.

Total System Weight	646.15 lb.
System Design Weight (W_p)	744.00 lb.
Horizontal Seismic Load (Fpw)	703 lbf.

4

M - COGEN - SEISMIC BRACE CALCULATIONS

Seismic Project	Morongo Cogen - Phase 2	**Brace Name**	M - Cogen
Standard	NFPA 13-2022	**Drawing Reference**	
Brace Type	Longitudinal	**Approval Agency**	FM Approved

STRUCTURE INFORMATION

Structure	I-Beam/joist
Substrate	Horizontal Beam Flange
Thickness	0.38 in.-0.75 in.
Load Orientation	Perpendicular to Beam

BRACE INFORMATION

Brace Member	1 NPS Sch 40
Brace Length Max	7 ft 0 in
Brace Angle	45° - 90°
Least Radius of Gyration	0.421 in.
l/r Ratio Max	200
Max Horizontal Load	1,310 lbf.

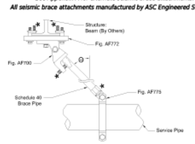
FASTENER INFORMATION

Fastener Name	N/A

SEISMIC BRACE ATTACHMENTS

	Model	Size	Adj. Load
Structural Att.	AF772	Type A	480 lbf.
Swivel Att.	AF700	1/2"	1,711 lbf.
Pipe Att.	AF775	3 NPS x 1 NPS	627 lbf.

See Appendix A for alternate seismic brace attachments.
All seismic brace attachments manufactured by ASC Engineered Solutions.



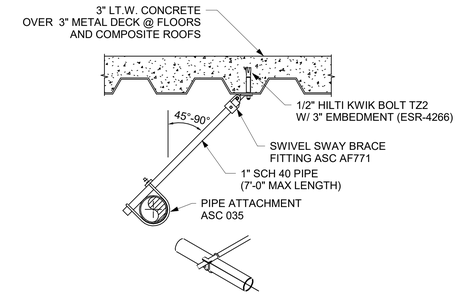
** - denotes hardware shown with the bolt head or nut broken off, as per the product installation instructions*
Net Vertical Reaction Forces do not need to be addressed per NFPA 13-2022.

SPRINKLER SYSTEM LOAD CALCULATION ($F_{PW} = C_p*W_p$)
$C_p = 0.944$

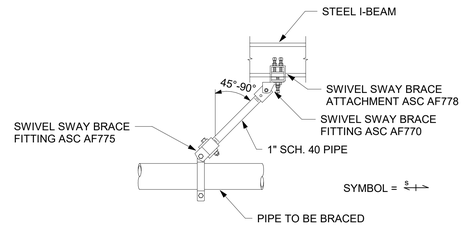
Qty	Line	Description	Pipe Size/Type	Length	Weight/ft	Weight/Line	Total Weight
1	Main	Braced Pipe	3 NPS Steel Sch 10	20.00 ft.	7.94 lb/ft.	158.80 lb.	158.80 lb.

Total System Weight	158.80 lb.
System Design Weight (W_p)	183.00 lb.
Horizontal Seismic Load (Fpw)	173 lbf.

5



1 BRANCHLINE RESTRAINT - CONCRETE OVER METAL DECK
NTS



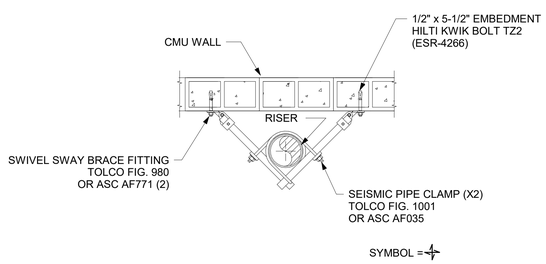
2 BRANCH LINE RESTRAINT AT STEEL I-BEAM
NTS

TABLE 18.6.4(a) MAXIMUM SPACING (FT) OF STEEL BRANCH LINE RESTRAINTS

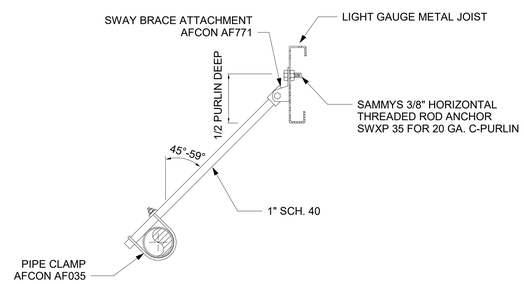
PIPE (IN.)	SEISMIC COEFFICIENT (Cp) $0.71 < Cp \leq 1.40$
1	20
1 1/2	23
2	24

SEISMIC COEFFICIENT (Cp) FOR THIS PROJECT = .94

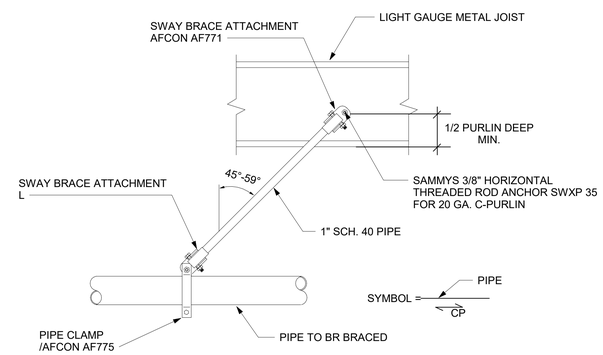
3 MAXIMUM SPACING FOR BRANCH LINE RESTRAINTS
NTS



4 4-WAY BRACE AT CMU WALL
12" = 1'-0"



5 LATERAL BRACE AT C-CHANNEL
NTS



6 LONGITUDINAL BRACE AT C-CHANNEL
NTS

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MORONGO COMBINED HEATING & POWER (CHP) PROJECT

49566 SEMINOLE DRIVE,
CABAZON, CA 92230

PROJECT NO. 24231

REV NO.	DATE ISSUED	REASON

PHASE 2 - IFC 2026.06.10

Sheet Title
SEISMIC BRACING DETAILS

Sheet No.
FP-502