



AUSTIN
SEMICONDUCTOR

2021 GENERATOR CODE COMPLIANCE PROJECT (FAB-1)

100% CONSTRUCTION DOCUMENTS

ISSUED FOR PERMIT

07/26/21

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®

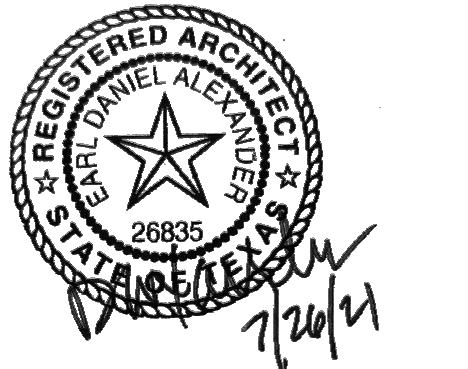
TPBE Registration # F-2966
2705 Bee Caves Rd. SUITE 300
Austin, TX, 78746
www.Jacobs.com

INDEX OF DRAWINGS - FAB 1						
BLDG	DRAWING	TITLE	SUBMISSION	DESCRIPTION	DATE	
GENERAL						
F1	F1-G001	COVER SHEET - FAB 1	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-G002	INDEX OF DRAWINGS - FAB 1	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
ARCHITECTURAL						
F1	F1-GA-0001	ARCHITECTURAL SYMBOLS & ABBREVIATIONS LEGEND	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-AP-103(E)	DEMOLITION ARCHITECTURAL PLAN CUB-1 FIRST LEVEL SECTOR 03	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-AP-203(E)	DEMOLITION ARCHITECTURAL PLAN CUB-1 ROOF LEVEL SECTOR 03	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-AP-103	NEW WORK ARCHITECTURAL PLAN CUB-1 FIRST LEVEL SECTOR 03	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-AP-203	NEW WORK ARCHITECTURAL PLAN CUB-1 ROOF LEVEL SECTOR 03	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-A-0000	ARCHITECTURAL ELEVATIONS	C	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-A-5000	ARCHITECTURAL DETAILS	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-GS-001	STRUCTURAL DETAILS	C	100% CONSTRUCTION DOCUMENTS	07/26/21	
ELECTRICAL						
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F1	F1-GE-0002	ELECTRICAL DETAILS	C	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-GE-0003	ELECTRICAL SCHEDULES	C	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-GE-0004	ELECTRICAL SCHEDULES	A	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-EP-103(E)	DEMOLITION POWER PLAN CUB 1 - FIRST LEVEL SECTOR 3	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EP-1010(E)	DEMOLITION POWER PLAN SUBFAB LEVEL SECTOR 10	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EP-1012(E)	DEMOLITION POWER PLAN SUBFAB LEVEL SECTOR 12	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EO-6000(E)	MASTER ELECTRICAL ONE-LINE DIAGRAM DEMOLITION	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EO-6001(E)	MASTER ELECTRICAL ONE-LINE DIAGRAM DEMOLITION	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-EP-1003	NEW WORK POWER PLAN CUB 1 - FIRST LEVEL SECTOR 3	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EP-2003	NEW WORK POWER PLAN CUB 1 - ROOF LEVEL SECTOR 3	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-EW-1003	NEW WORK CONTROL WIRE AND GROUNDING PLAN CUB-1 - FIRST LEVEL - SECTOR 3	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EP-1010	NEW WORK POWER PLAN SUBFAB LEVEL SECTOR 10	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EW-1010	NEW WORK CONTROL WIRE PLAN SUBFAB LEVEL - SECTOR 10	C	100% CONSTRUCTION DOCUMENTS	07/26/21	
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F1	F1-EO-6000	MASTER ELECTRICAL ONE-LINE DIAGRAM NEW WORK	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	F1-EO-6001	MASTER ELECTRICAL ONE-LINE DIAGRAM NEW WORK	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
MECHANICAL						
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F1	C1-MP-1003	MECHANICAL PLAN FIRST LEVEL SECTOR 3	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
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F1	C1-MP-3003	MECHANICAL SECTION FIRST LEVEL AND ROOF SECTOR 3	B	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-MP-3004	MECHANICAL SECTION FIRST LEVEL SECTOR 3	B	100% CONSTRUCTION DOCUMENTS	07/26/21	
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F1	C1-MO-6403	MECHANICAL FLOW DIAGRAM COOLANT	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-M-5003	MECHANICAL SCHEDULES	D	100% CONSTRUCTION DOCUMENTS	07/26/21	
F1	C1-FP-1003	FIRE PROTECTION PLAN CUB-1 FIRST LEVEL SECTOR 03	A	100% CONSTRUCTION DOCUMENTS	07/26/21	

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TBCE Registration # F-2966
2705 Bee Cave Rd. SUITE 300
Austin, TX 78746
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SEAL:



NO	ISSUE DATE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

INDEX OF DRAWINGS - FAB 1

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	I. TANUDJI	SHEET NO.:	
CHECKED BY:	K. KUNKEL	SCALE:	
			F1-G002

ARCHITECTURAL ABBREVIATIONS

@	AT	(E)	EXISTING	IBC	INTERNATIONAL BUILDING CODE	R	RISER	W	WHITE
°	DEGREE	EA	EACH	ICR	INFORMAL CONFERENCE ROOM	RA	RETURN AIR	WB-(#)	WHITE BOARD - TYPE
*	DIAMETER	EIFS	EXTERIOR INSULATION FINISH SYSTEM	IECC	INTERNATIONAL ENERGY CONSERVATION CODE	RAG	RETURN AIR GRILLE	WC-(#)	WALLCOVERING - TYPE
.	CENTERLINE	EJ-(#)	EXPANSION JOINT - TYPE	IFC	INTERNATIONAL FIRE CODE	RB-(#)	RESILIENT BASE - TYPE	WD	WOOD
AC-(#)	ACOUSTICAL TILE - TYPE	ELEV	ELEVATOR	IGU	INSULATED GLASS UNIT	RD	REFRAIN	WF-(#)	WATERPROOF FILM - TYPE
ACP	ALUMINUM CHECKER PLATE	EM-	ENTRANCE MAT - TYPE	IMC	INTERNATIONAL MECHANICAL CODE	REF	REFERENCE	WM	WIRE MESH
ADA	AMERICANS WITH DISABILITIES ACT	EMERG	EMERGENCY	INSUL	INSULATION	REQD	REQUIRED	WO	WITHOUT
AF-(#)	ACCESS FLOOR - TYPE	EOD	EDGE OF DECK	INT	INTERIOR	RF-(#)	RESILIENT FLOORING - TYPE	WP-(#)	DEMOUNTABLE PARTITION - TYPE
AFF	ABOVE FINISH FLOOR	EQ	EQUAL	IPC	INTERNATIONAL PLUMBING CODE	RM	ROOM	WT	WEIGHT
ALUM	ALUMINUM	EQUIP	EQUIPMENT	IWUC	INTERNATIONAL WILDLANDS URBAN INTERFACE CODE	RO	ROUGH OPENING	WWP	WOVEN WIRE PARTITION
AMHS	AUTOMATED MATERIAL HANDLING SYSTEM	EXP	EXPOSED	JT	JOINT	ROC	REMOTE OPERATIONS CENTER	WWT	WASTE WATER TREATMENT
AM&M	ALTERNATE MATERIALS AND METHODS	EXT	EXTERIOR			RODI	REVERSE OSMOSIS DE-IONIZED WATER		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE					ROM	ROUGH ORDER OF MAGNITUDE		
APPROX	APPROXIMATE	FACT	FACTORY			RRD	RAPID ROLL-UP DOOR		
ARCH	ARCHITECTURAL	FE-(#)	FIRE EXTINGUISHER - TYPE	KEC	KITCHEN EQUIPMENT CONSULTANT	RS-(#)	REDUCER STRIP - TYPE		
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	FF	FINISH FLOOR	LAM	LAMINATED	S	STAIN		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	F&E	FURNITURE, FIXTURES AND EQUIPMENT	LB	LOUVERED BLINDS / POUND	SAC-(#)	SUSPENDED ACOUSTICAL CEILING - TYPE		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FPU	FAN FILTER UNIT	LP	LOW POINT	SAT	SUSPENDED ACOUSTICAL TILE		
AWT	ACOUSTICAL WALL TREATMENT	FG	FINISH GRADE	LSS	LIFE SAFETY SYSTEMS	SCD	SEAT COVER DISPENSER		
B/	BOTTOM OF	FIN	FINISH			SCR	SATELLITE COMMUNICATIONS ROOM		
BD	BOARD	FLG	FLASHING	MAQ	MAXIMUM ALLOWABLE QUANTITIES	SD	SOAP DISPENSER		
B/LG	BUILDINGS	FLR	FLOOR	MAS	MASONRY	SECT	SECTION		
B/LKG	BLOCKING	FM	FACTORY MUTUAL	MATL	MATERIAL	SG	SQUARE FEET		
BM	BEAM	FMS	FACILITIES MANAGEMENT SYSTEM	MAX	MAXIMUM	SH	SEALER / HARDENER		
BOS	BOTTOM OF STEEL	FOC	FACE OF	MB-(#)	MARKER BOARD - TYPE	SHT	SHEET		
CF	CUBIC FEET	FOF	FACE OF FINISH	MECH	MECHANICAL	SIB	STRUCTURAL ISOLATION BREAK		
CFM	CUBIC FEET PER MINUTE	FOM	FACE OF MASONRY	MEZZ	MEZZANINE	SIM	SIMILAR		
CG-(#)	CORNER GUARD - TYPE	FOP	FACE OF PANEL	MFR	MANUFACTURER	S-INSUL	STEEL INSULATED		
CHK	CHEQUERED	FOS	FACE OF STUDS / STEEL	MIN	MINIMUM; MINUTE	SOW	SCOPE OF WORK		
CI	CODE INTERPRETATION	FOPUP	FRONT OPENING UNIFIED POD	MIR	MIRROR	SS	STAINLESS STEEL		
CIP	CAST IRON	FRP-(#)	FIBERGLASS REINFORCED PLASTIC - TYPE	MISC	MISCELLANEOUS	STC	SOUND TRANSMISSION COEFFICIENT		
CJ	CONTROL JOINT	FT	FOOT/FEET	MO	MASONRY OPENING	STD	STANDARD		
CLF	CHAIN LINK FENCE	FWP-(#)	FABRIC WRAPPED PANEL - TYPE	MOU	MOMENTUM OF UNDERSTANDING	STL	STRUCTURE		
CLG	CEILING	GA	GAUGE	MS	MOP SINK	STRUCT	STRUCTURAL		
CLR	CLEAR	GALV	GALVANIZED	MT	MARKET TRAY	SUSP	SUSPENDED		
CMU	CONCRETE MASONRY UNIT	GB	GRAB BAR	MTL	METAL				
COL	COLUMN	GB	GYPSUM BOARD	NA	NOT APPLICABLE	TBD	TO BE DETERMINED		
CONC	CONCRETE	GL-(#)	GLASS - TYPE	ND	NAPKIN DISPOSAL	TEMP	TEMPERED		
CONF	CONFERENCE	GP/M	GALLONS PER MINUTE	NEC	NATIONAL ELECTRIC CODE	TPD	TOILET PAPER DISPENSER		
CONT	CONTINUOUS	GR	GRILLE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	TEMP	TEMPORARY		
COORD	COORDINATE	GT-(#)	GROUP - TYPE	NIC	NOT IN CONTRACT	THR	THRESHOLD		
CP-(#)	CAPTURE PIPE	GYP	GYPSUM	NR	NOT FIRED RATED	TLA	THREE LETTER ACRONYM		
CR	CARD READER	HPC	HIGH PERFORMANCE COATING	NTS	NOT TO SCALE	TOC	TOP OF CONCRETE		
CR-(#)	CRASH RAIL - TYPE	HC	HOLLOW CORE	OC	ON CENTER	TOS	TOP OF STEEL		
CRC	CHEMICAL RESISTANT COATING	HDBD	HARDBOARD	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	TR	THREAD		
CS	CONCRETE SEALER	HDVR	hardware	OFOI	OWNER FURNISHED, OWNER INSTALLED	TS	PIPE STEEL		
CT-(#)	CERAMIC TILE - TYPE	HM	HOLLOW METAL	OHC	OVERHEAD COILING DOOR	TYP	TYPICAL		
CTR	CENTER	HORIZ	HORIZONTAL	OPP	OPPOSITE	V	VENT		
CWS-(#)	CLEAN ROOM WALL SYSTEM - TYPE	HP	HIGH POINT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION	VDB-(#)	VISUAL DISPLAY BOARD - TYPE		
DAC	INTERBAY AMHS	HPC	HIGH PERFORMANCE COATING	PC-(#)	POLYMER COMPOSITE	VERT	VERTICAL		
DAT	DATUM	HR	HOUR	PCF	PER CUBIC FOOT	VEST	VESTIBULE		
DF	DRINKING FOUNTAIN	HS	HIGH STRENGTH	PGV	PERSONAL GUIDED VEHICLE	VESTB	VESTIBULE		
DIA	DIAMETER	HT	HEIGHT	PKG	PACKAGE	VIB	VIBRATION		
DIM	DIMENSION			PL	PLATE	VP	VENT PIPE		
DN	DOWN			PLAM - (#)	PLASTIC LAMINATE - TYPE	VR	VAPOR RETARDER		
DO	DOOR OPENING			PLBG	PLUMBING				
DR	DOOR			PLYWD	PLYWOOD				
DRB	DESIGN REVISION BULLETIN			PNL	PANEL				
DS	DISCHSPOT			PR	PIPE				
DTL	DETAL			PREFAB	PREFABRICATED				
DWG	DRAWING			PROC	PROCESS				
DW	DUMBWATER			PSI	POUNDS PER SQUARE INCH				
DWP	DEMOUNTABLE WALL PARTITION			P/T	PASS THROUGH				

MATERIAL LEGEND

EARTHWORKS



EARTH



GRAVEL



CONCRETE



SAND

MASONRY

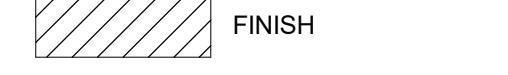


BRICK OR CMU

METAL



ALUMINUM



STEEL

WOOD



FINISH



ROUGH



BLOCKING

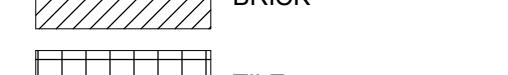


PLYWOOD

INSULATION



BATT/LOOSE FILL



RIGID

FINISHES



ACOUSTICAL TILE



CARPET

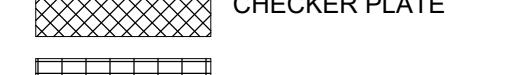


GYPSUM BOARD

ELEVATION INDICATIONS



BRICK



TILE

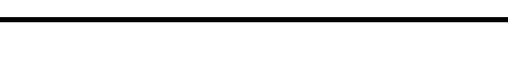


GLASS

PLAN INDICATIONS



CHECKER PLATE



GRATE

BUILDING SYSTEM LEGEND

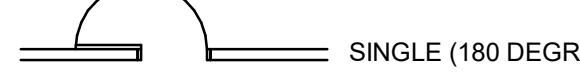
DOOR TYPES



SINGLE



SINGLE W/ SIDE LITE



SINGLE (180 DEGREES)



SINGLE (TWO WAY)



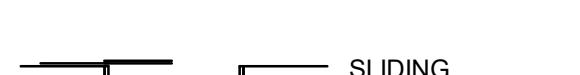
DOUBLE



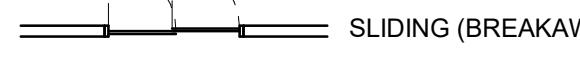
DOUBLE (180 DEGREES)



DOUBLE POCKET



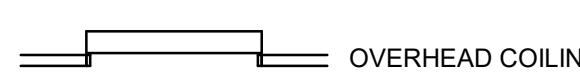
SLIDING



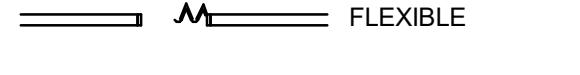
SLIDING (BREAKAWAY)



REVOLVING



OVERHEAD SECTIONAL



OVERHEAD COILING



FLEXIBLE

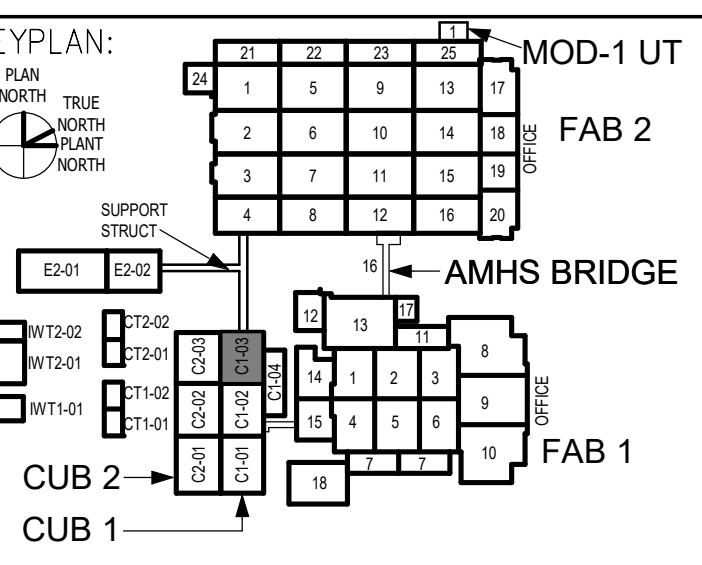


FOLDING

MISC. ARCHITECT

SAMSUNG

AUSTIN SEMICONDUCTOR

**GENERAL NOTES TO DEMOLITION:**

- EXISTING CONDITIONS HAVE BEEN DEVELOPED FROM AS-BUILT DOCUMENTS. SOME CONDITIONS AND ITEMS MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY CONDITIONS ON SITE AND REPORT ALL DIFFERENCES FROM CONDITIONS SHOWN TO THE ARCHITECT AND ENGINEER.
- DEMOLITION WORK THAT PRODUCES MORE THAN A MINIMUM LEVEL OF EMISSIONS BUT LESS THAN OTHER NSR PERMITTING OPTIONS MAY BE REQUIRED TO APPLY FOR PERMITTING UNDER NSR. CONTRACTOR SHALL NOTIFY STATE AIR PERMITTER 180 DAYS PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
- PROTECT BY APPROPRIATE MEANS ALL EXISTING CONSTRUCTION FINISHES, AND EQUIPMENT TO REMAIN. ALL DAMAGED ITEMS FINISHES, AND EQUIPMENT SHALL BE REPAIRED OR RELOCATED BY CONTRACTOR. CONTRACTOR SHALL EXAMINE ALL EQUIPMENT TO REMAIN PRIOR TO COMMENCEMENT OF DEMOLITION WORK. EQUIPMENT THAT IS STILL IN GOOD FUNCTIONING ORDER.
- PROTECTION OF BUILDING FURNISHINGS AND SYSTEMS DURING DEMOLITION SHALL BE PROVIDED BY THE CONTRACTOR. PROTECTION OF EXISTING CONSTRUCTION FINISHES AND EQUIPMENT DURING DEMOLITION SHALL BE PROVIDED BY THE CONTRACTOR.
- FIELD VERIFY ALL DIMENSIONS SHOWN.
- DEMOLITION WORKS ARE UNNOTED EXCEPT WHERE EXISTING CONSTRUCTION OR EQUIPMENT IS DESIGNATED TO REMAIN OR IS DIMINISHED IN SCOPE. ALL EXISTING ITEMS ARE SUBJECT TO REMOVAL. REMOVED DEMOLITION SHALL INCLUDE ALL CLOSER, LIGHTING, DOCUMENTS FOR ADDITIONAL DEMOLITION SCOPE AND REQUIREMENTS.
- DEMOLITION OF FINISHES NOTED TO BE REMOVED SHALL INCLUDE THE REMOVAL OF ALL EXISTING PAINT, PLASTER, AND COATING AGENTS. DEMOLITION WORK SHALL PROVIDE FOR A CLEAN AND UNDISTURBED SURFACE FOR NEW FINISHES AND MATERIALS.
- REMOVE ALL EXISTING FLOORING WHERE SHOWN WITHIN THE LIMITS OF REMOVAL. REMOVE ALL EXISTING CEILINGS AND REPAIR SPAWS FOR INSTALLATION OF NEW FLOORING MATERIAL.
- CONTRACTOR TO REMOVE AND STORE CEILING COMPONENTS AFTER COMPLETION OF ABOVE CEILING WORK. IF THE CONTRACTOR IS UNABLE TO REMOVE AND STORE ALL CEILING ITEMS AS THIS CONDITION, SHOULD THIS NOT BE POSSIBLE, CONTRACTOR SHALL REMOVE ALL EXISTING CEILING ITEMS.
- DEMOLITION OF EQUIPMENT SHALL INCLUDE ALL CONTROLS AND WIRING INCLUDING REMOTELY LOCATED CONTROLS AND WIRING THAT MAY BE REMOVED DURING DEMOLITION.
- REMOVE ALL EXISTING DEBRIS, ABANDONED DUCT, WIRING AND CONDUIT FROM THE ABOVE CEILING AREAS THAT ARE TO REMAIN.
- DEMOLITION OF PIPING AND DUCTWORK SHALL INCLUDE ALL SUPPORTS, INSULATION, AIR DEVICES, VALVES, DAMPERS UNLESS NOTED OTHERWISE.
- REMOVE ELECTRICAL BOXES, WIRING AND CONDUIT IN DEMOLISHED AREAS BACK TO THEIR RESPECTIVE PANELS, UNLESS INDICATED TO BE REUSED.
- EXISTING FIRE ALARM SYSTEM TO REMAIN OPERATIONAL WHILE BUILDING IS DEMOLISHED. CONTRACTOR COORDINATE WITH DEMOLITION AND OCCUPANCY ARE PROTECTED.
- DEMOLITION OF EQUIPMENT THAT HAS SOME SYSTEMS MAY REQUIRE THE REMOVAL OF ITEMS THAT ARE OUTSIDE OF THE GENERAL DEMOLITION AREA AND MAY REQUIRE THE REMOVAL OF ALL EXISTING SUPPORTS, INSULATION, AIR DEVICES, VALVES, DAMPERS UNLESS NOTED OTHERWISE. COORDINATE THE START OF THESE ACTIVITIES WITH THE OWNER PRIOR TO COMMENCEMENT OF DEMOLITION.
- ITEMS SHOWN TO REMAIN MAY REQUIRE SHORING OR TEMPORARY SUPPORT DURING AND AFTER DEMOLITION. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL SUBMIT A DRAWING SHOWING ALL DRAWINGS SHOWING ALL ITEMS THAT MAY REQUIRE ADDED SUPPORT OR SHORING AND HOW THIS SHORING OR SUPPORT WILL BE PROVIDED.

Jacobs

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Austin, TX 78746
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SEAL:



NO	ISSUE	DATE
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COMPLIANCE PROJECT
(FAB-1)
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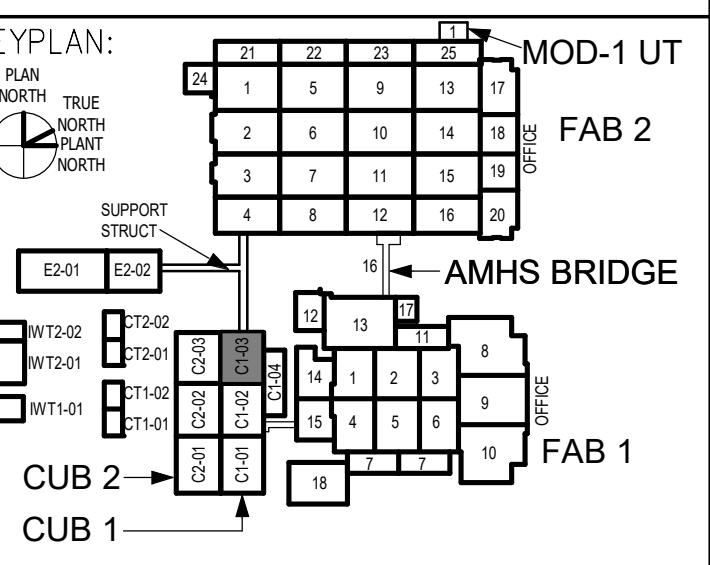
SHEET TITLE:
DEMOLITION ARCHITECTURAL PLAN
CUB-1
FIRST LEVEL SECTOR 03

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	K KING	SHEET NO.:	
CHECKED BY:	K KUNKEL		
SCALE:	As indicated		

1 DEMOLITION ARCHITECTURAL PLAN - GENERATOR AND CUB-1 ELECTRICAL ROOM

1/8" = 1'-0"

SAMSUNG

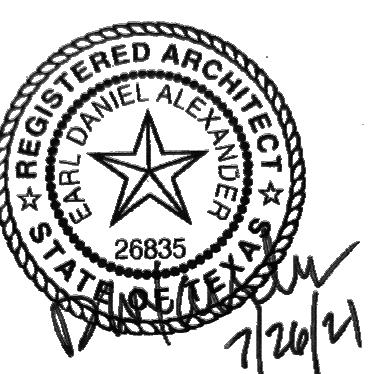
AUSTIN
SEMICONDUCTOR**GENERAL NOTES TO DEMOLITION:**

- EXISTING CONDITIONS HAVE BEEN DEVELOPED FROM AS-BUILT DOCUMENTS. SOME CONDITIONS AND ITEMS MAY VARY FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ALL DIFFERENCES FROM CONDITIONS SHOWN TO THE ARCHITECT AND OWNER.
- DEMOLITION ACTIVITIES THAT PRODUCE MORE THAN MINIMUM LEVEL OF DUST OR DIRT LESS THAN OTHER NR PERMITTING OPTIONS MAY BE REQUIRED TO APPLY FOR PERMIT THROUGH TCEQ UNDER STATE OF TEXAS AIR POLLUTION CONTROL ACT. THE GENERAL CONTRACTOR SHALL VERIFY PERMITTING REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.
- PROTECT BY APPROPRIATE MEANS ALL EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN. ALL DAMAGED ITEMS FINISHES AND EQUIPMENT SHALL BE REPAIRED OR REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL EXAMINE ALL EQUIPMENT TO REMAIN FOR DUST AND DIRT PROTECTION. CONTRACTOR SHALL NOT COMMENCE DEMOLITION WORK THAT EQUIPMENT IS STILL IN GOOD FUNCTIONING ORDER.
- PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND OR CONTAMINATION SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS AND AS PROVIDED BY THE OWNER TO DEMOLITION CONTRACTOR. CONTRACTOR SHALL PROVIDE NOISE AND DUST PROTECTION AS REQUIRED BY THE OWNER.
- VERIFY ALL DIMENSIONS SHOWN.
- DEMOLITION QUANTITIES ARE UNCLASSIFIED, EXCEPT WHERE EXISTING CONDITIONS ARE GRANULARLY ORIGINATED OR NOTED TO REMAIN OR DIMENSIONED TO SHOW EXTENT OF CONSTRUCTION TO REMAIN. WHERE QUANTITIES ARE UNCLASSIFIED, QUANTITIES ARE REMOVED. DEMOLITION SHALL BE INCLUDE OF CASEWORK, LIGHTING, PLUMBING, ELECTRICAL, ROOFING, CEILINGS, FLOORING, ETC. MISCELLANEOUS PROTRUSIONS, GLUE AND SEALANTS.
- REMOVE ALL EXISTING FLOORING WHERE SHOWN WITHIN THE LIMITS OF DEMOLITION. CONTRACTOR SHALL REMOVE ALL EXISTING FLOORING (DEMOLITION) WITHIN THE LIMITS OF DEMOLITION AND REPAIR (REPAIRS) FOR INSTALLATION OF NEW FLOORING MATERIAL UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL REMOVE ALL CEILING GRID, GRID, DEVICES, LIGHTING AND CEILING TILES FOR USE AFTER COMPLETION OF ABOVE CEILING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNERSHIP AGENTS. DEMOLITION WORK SHALL PROVIDE FOR A CLEANING AND LEAVE NO RESIDUE ON CEILINGS, CEILING GRID, CEILING TILES, MISCELLANEOUS PROTRUSIONS, GLUE AND SEALANTS.
- DEMOLITION OF FINISHES NOTED TO BE REMOVED SHALL INCLUDE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OWNERSHIP AGENTS. DEMOLITION WORK SHALL PROVIDE FOR A CLEANING AND LEAVE NO RESIDUE ON CEILINGS, CEILING GRID, CEILING TILES, MISCELLANEOUS PROTRUSIONS, GLUE AND SEALANTS.
- REMOVE ALL EXISTING DEBRIS, ABANDONED DUCT, WIRING AND CONDUIT FROM THE ABOVE CEILING AREAS THAT ARE TO REMAIN.
- DEMOLITION OF PIPING AND DUCTWORK SHALL INCLUDE ALL SUPPORTS, Hangers, Insulation, Air Devices, Valves, Dampers unless noted otherwise.
- REMOVE ELECTRICAL BOXES, WIRING AND CONDUIT IN DEMOLISHED AREAS. CONTRACTOR SHALL RELOCATE TO THEIR RESPECTIVE PANELS, UNLESS INDICATED TO BE REROUTED.
- EXISTING FIRE ALARM SYSTEM TO REMAIN OPERATIONAL WHILE BUILDING IS OCCUPIED BY OWNER. COORDINATE DEMOLITION AND OWNERSHIP AGENTS TO DETERMINE WHETHER CONTRACTOR OR OWNER OCCUPANCY ARE PROTECTED.
- THE COMPLETE DEMOLITION OF SOME SYSTEMS MAY REQUIRE THE REMOVAL OF ITEMS THAT ARE OUTSIDE OF THE GENERAL DEMOLITION AREA AND MAY REQUIRE THE REMOVAL OF OTHER SYSTEMS THAT ARE OUTSIDE OF THE GENERAL DEMOLITION AREA. COORDINATE THE START OF THESE ACTIVITIES WITH THE OWNER PRIOR TO COMMENCEMENT OF DEMOLITION. CONTRACTOR SHALL PROVIDE SUPPORT FOR REMOVAL AND TEMPORARY STORAGE HAS BEEN REVIEWED AND APPROVED BY THE OWNER.
- ITEMS SHOWN TO REMAIN MAY REQUIRE SHORING OR TEMPORARY SUPPORT DURING AND AFTER DEMOLITION. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL PROVIDE SUPPORT DRAWINGS SHOWING ALL ITEMS THAT MAY REQUIRE ADDED SUPPORT OR SHORING AND HOW THIS SHORING OR SUPPORT WILL BE PROVIDED.

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SEAL:



NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
DEMOLITION ARCHITECTURAL PLAN
CUB-1
ROOF LEVEL SECTOR 03

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	I. TANUDJI	SHEET NO.:	
CHECKED BY:	K. KUNKEL	C1-AP-2003(E)	
SCALE:	As indicated		

1 DEMOLITION ARCHITECTURAL ROOF PLAN - CUB-1 SECTOR 03

1/8" = 1'-0"



**AUSTIN
SEMICONDUCTOR**

PLAN: MOD 1 UT

The diagram illustrates the layout of MOD-1 U1, featuring two main production areas: FAB 1 and FAB 2.

- FAB 1:** Located at the bottom right, it contains rooms numbered 1 through 18, arranged in a grid. An "OFFICE" is located to the right of room 18. A vertical stack of boxes labeled C1-C2 is positioned between rooms 1-4 and 5-8. A horizontal stack of boxes labeled C1-C2 is positioned between rooms 9-12 and 13-16. A bridge labeled "AMHS BRIDGE" connects FAB 1 to FAB 2.
- FAB 2:** Located at the top right, it contains rooms numbered 1 through 20, arranged in a grid. An "OFFICE" is located to the right of room 19.
- Support Structures:**
 - A large rectangular structure labeled "CUB 2" is located to the left of the vertical stack of boxes.
 - A smaller rectangular structure labeled "CUB 1" is located below the horizontal stack of boxes.
 - A "SUPPORT STRUCT" is located above the horizontal stack of boxes.
- Legend:**
 - A blue square with a white border represents a "TRUE NORTH PLANT".
 - A red square with a white border represents "NORTH".
 - A green square with a white border represents "NORTH".

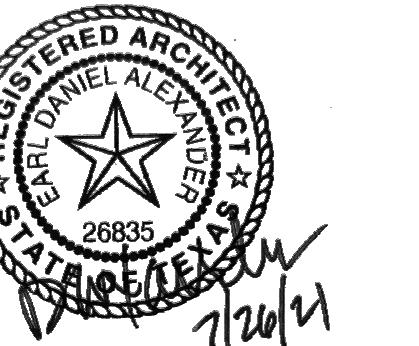
GENERAL NOTES:

- PROVIDE IN-WALL NON-COMBUSTIBLE BLOCKING
AT ALL WALL-MOUNTED ACCESSORIES AND
EQUIPMENT. FIRE RETARDANT TREATED LUMBER
SHALL BEAR UL LABEL.

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1



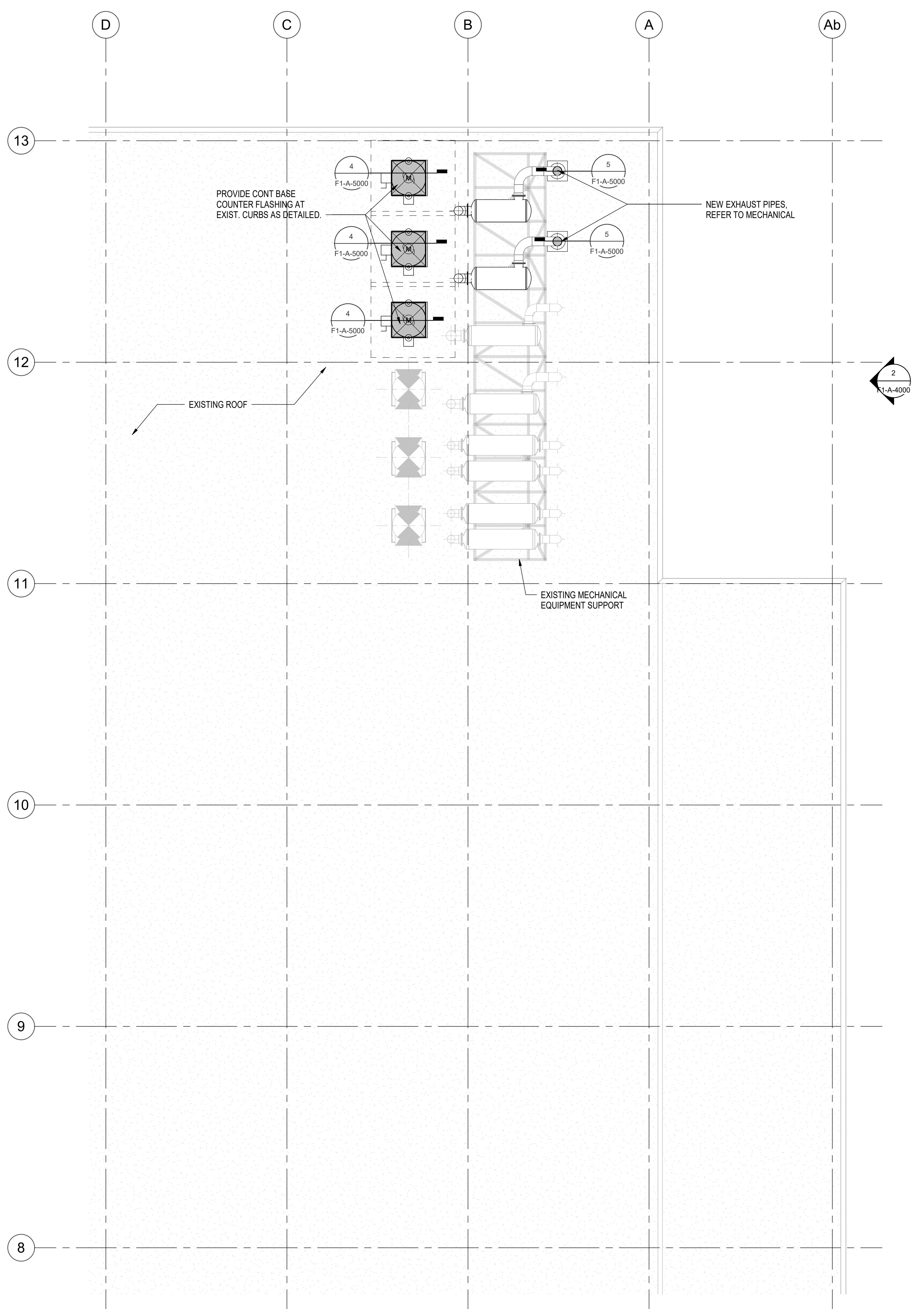
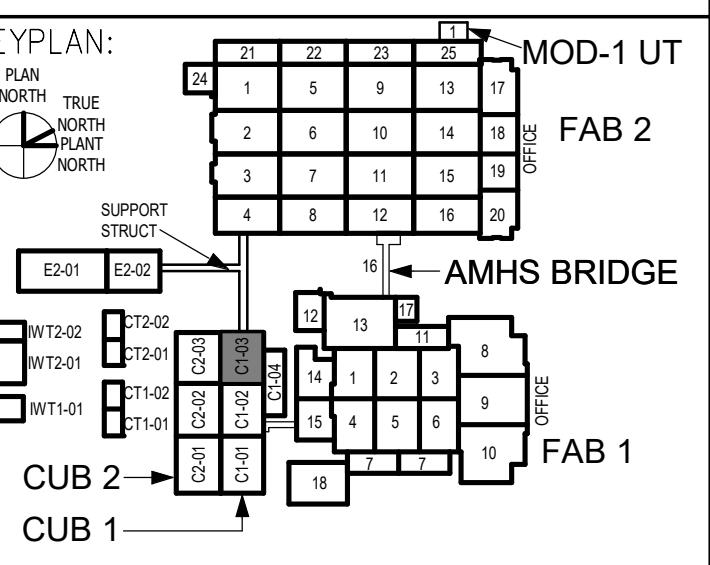
ISSUE	DATE
0% PROGRESS	06/11/21
0% PROGRESS	07/06/21
0% PROGRESS	07/14/21
00% CONSTRUCTION DOCUMENTS	07/26/21

KAGE TITLE:
**2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
% CONSTRUCTION DOCUMENTS**

ET TITLE:
NEW WORK ARCHITECTURAL PLAN
CUB-1

: WN BY: KED BY: E:	07/26/21 K. KING K. KUNKEL As indicated	PRJ. NO.: <hr/> D3511600
		SHEET NO.: C1-AP-1003

SAMSUNG

AUSTIN
SEMICONDUCTOR

1 NEW WORK ARCHITECTURAL ROOF PLAN - CUB-1 SECTOR 03

1/8" = 1'-0"

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C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

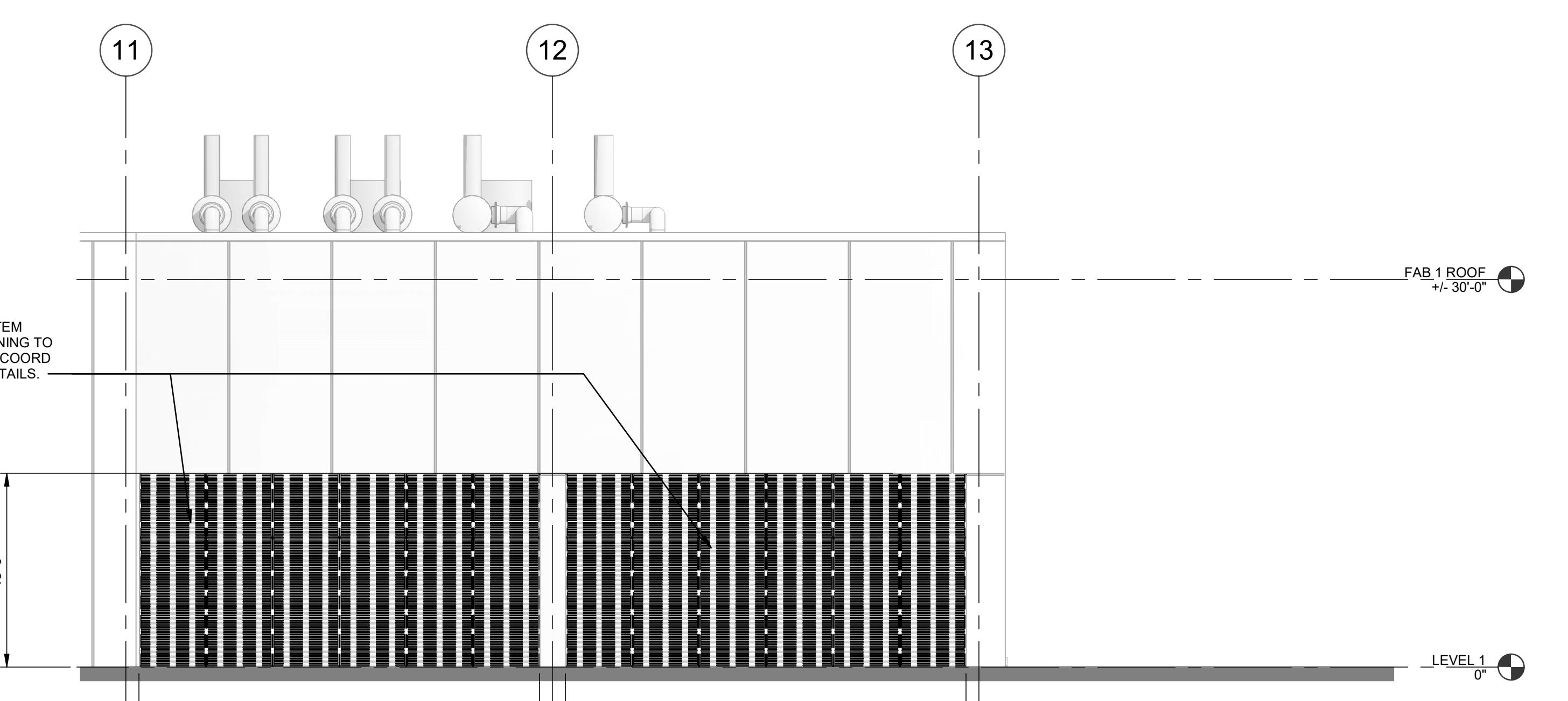
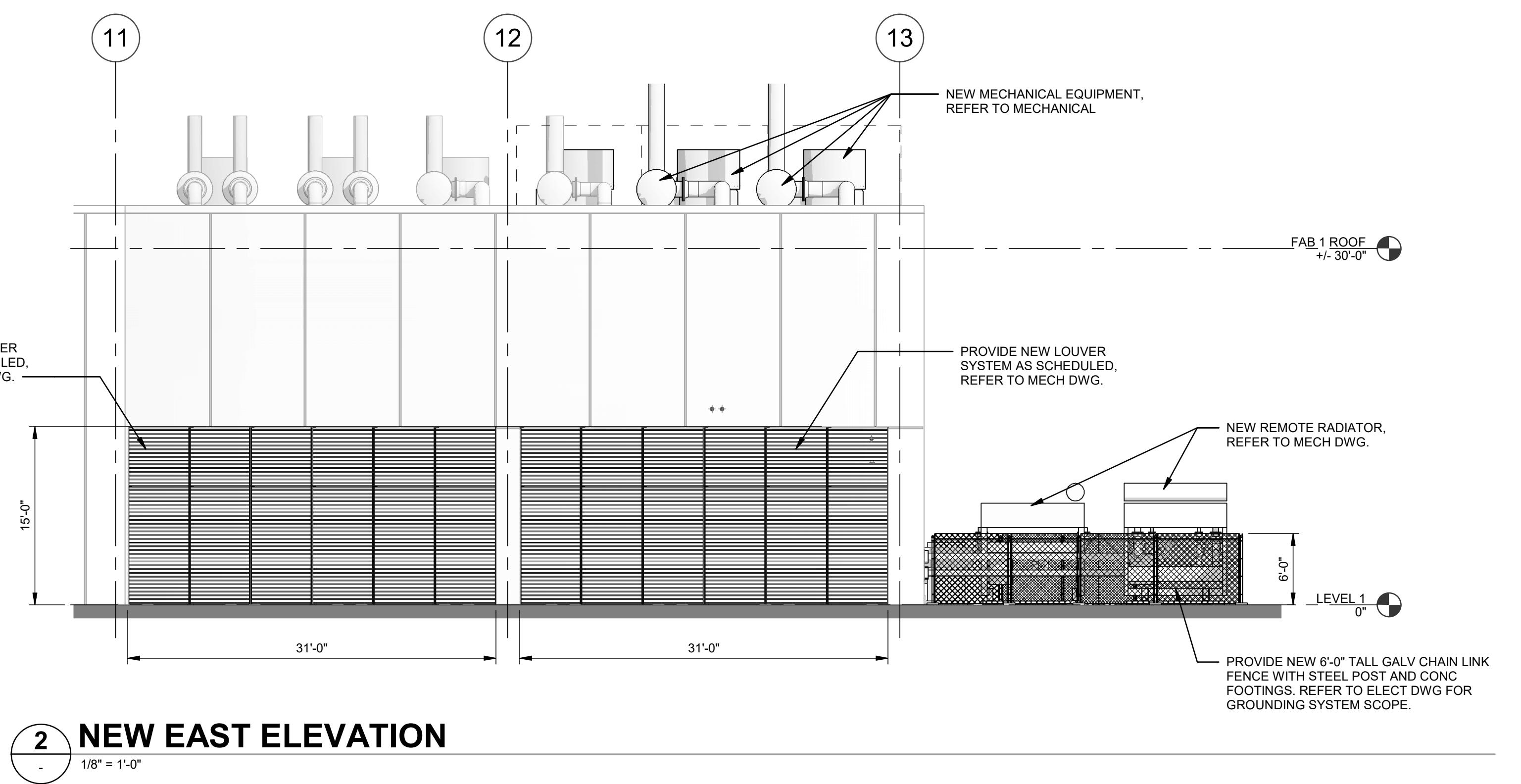
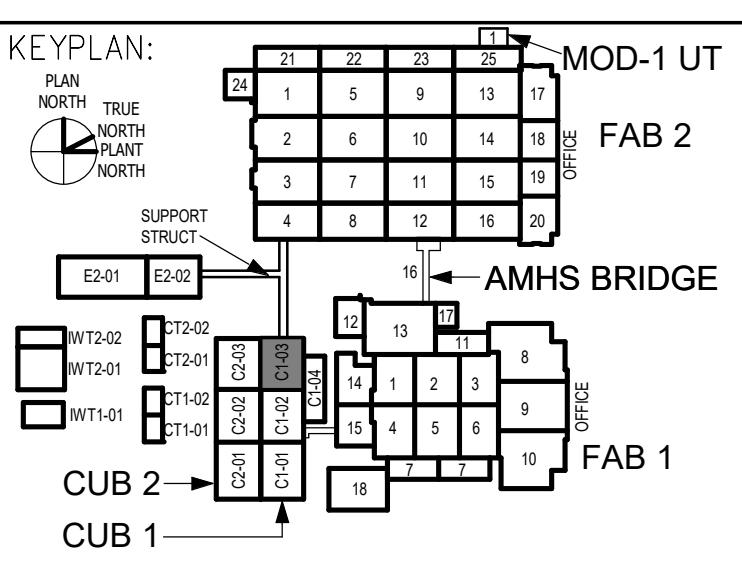
PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
NEW WORK ARCHITECTURAL PLAN
CUB-1
ROOF LEVEL SECTOR 03

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	I. TANUDJI	SHEET NO.:	
CHECKED BY:	K. KUNKEL		
SCALE:	1/8" = 1'-0"		

PLOT DATE/TIME: 7/23/2021 5:06:36 PM

SAMSUNG

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SEMICONDUCTOR

1 DEMOLITION EAST ELEVATION

1/8" = 1'-0"

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B	95% PROGRESS	07/14/21
C	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ARCHITECTURAL ELEVATIONS

DATE: 07/26/21 PRJ. NO.: D3511600

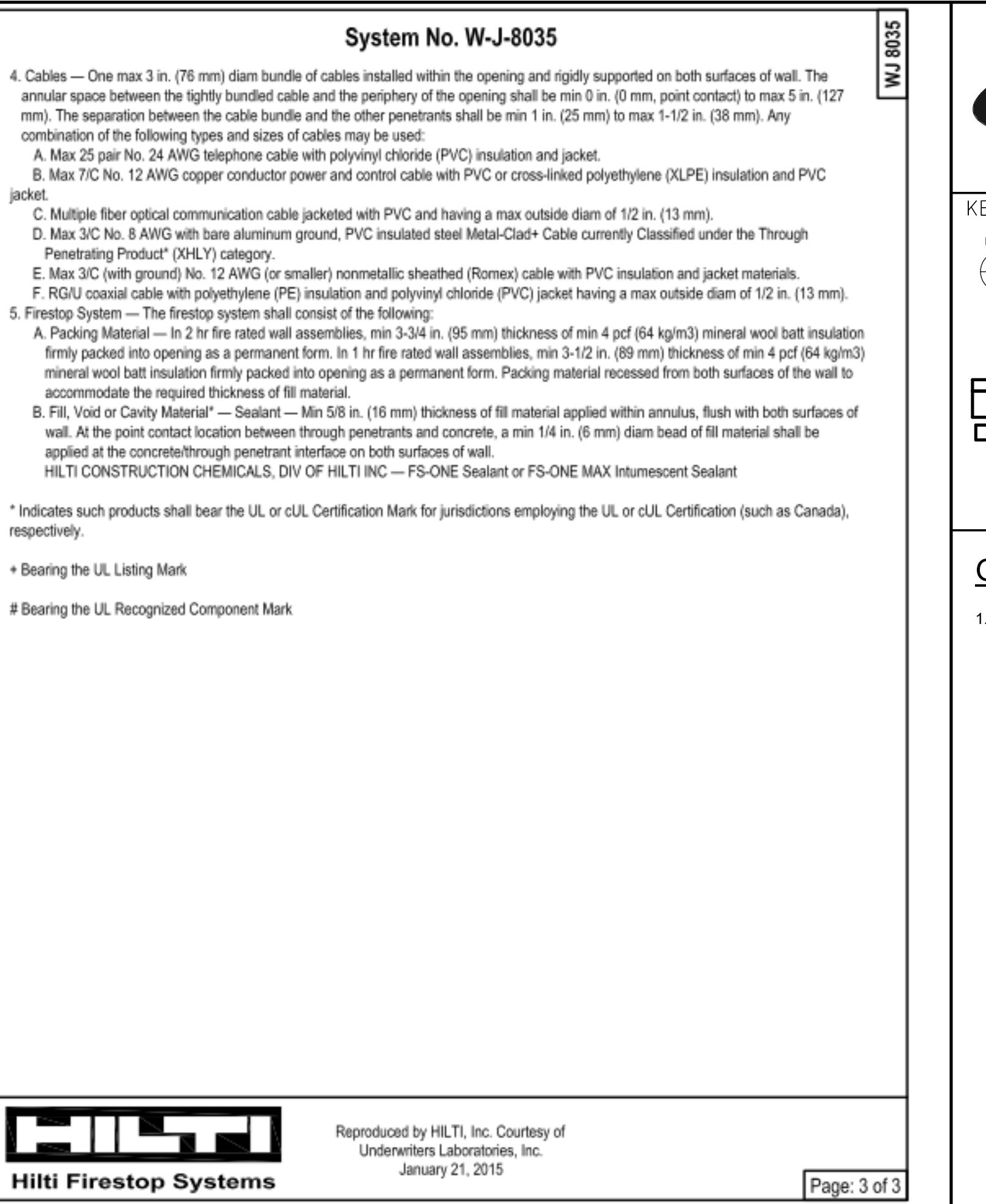
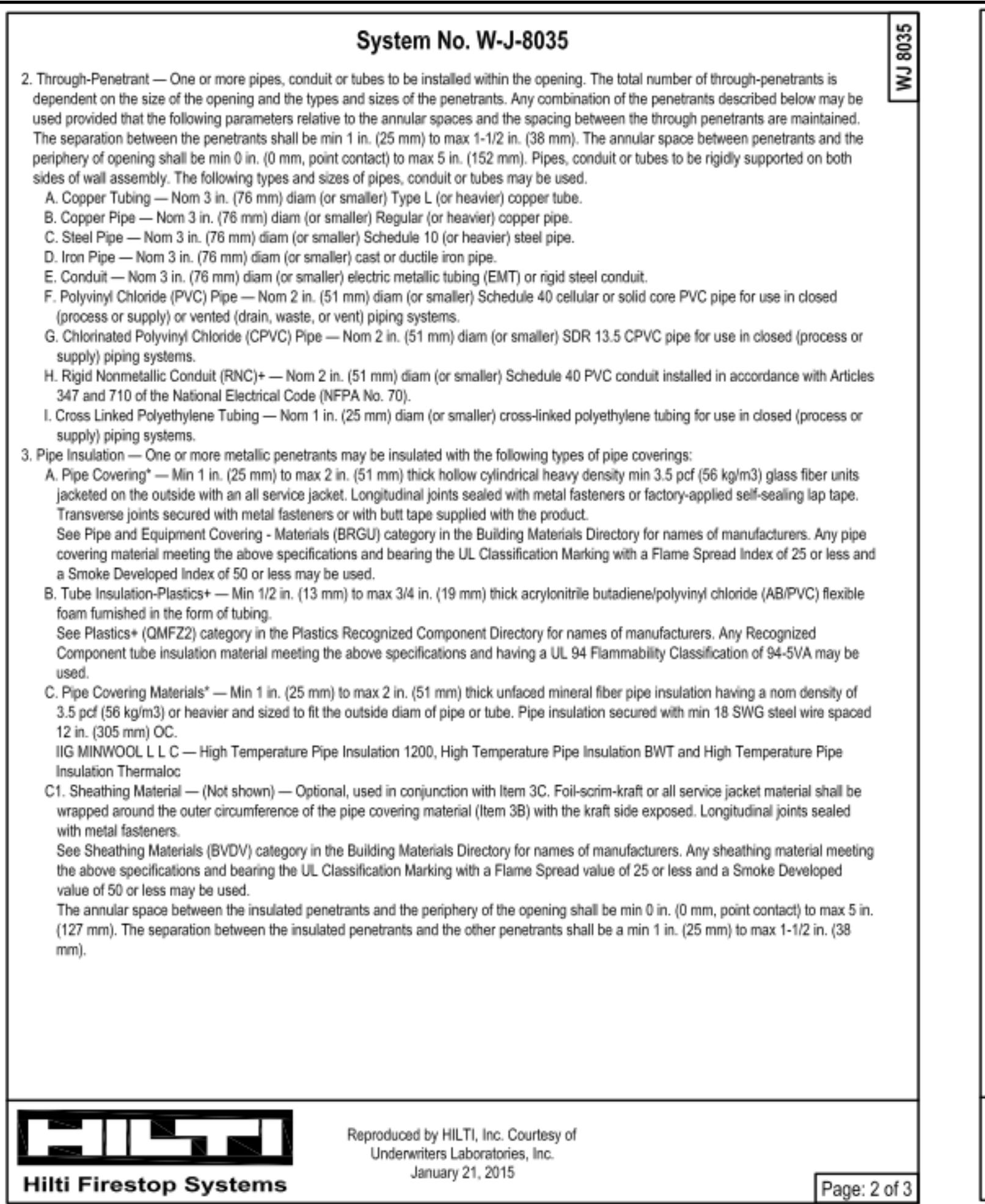
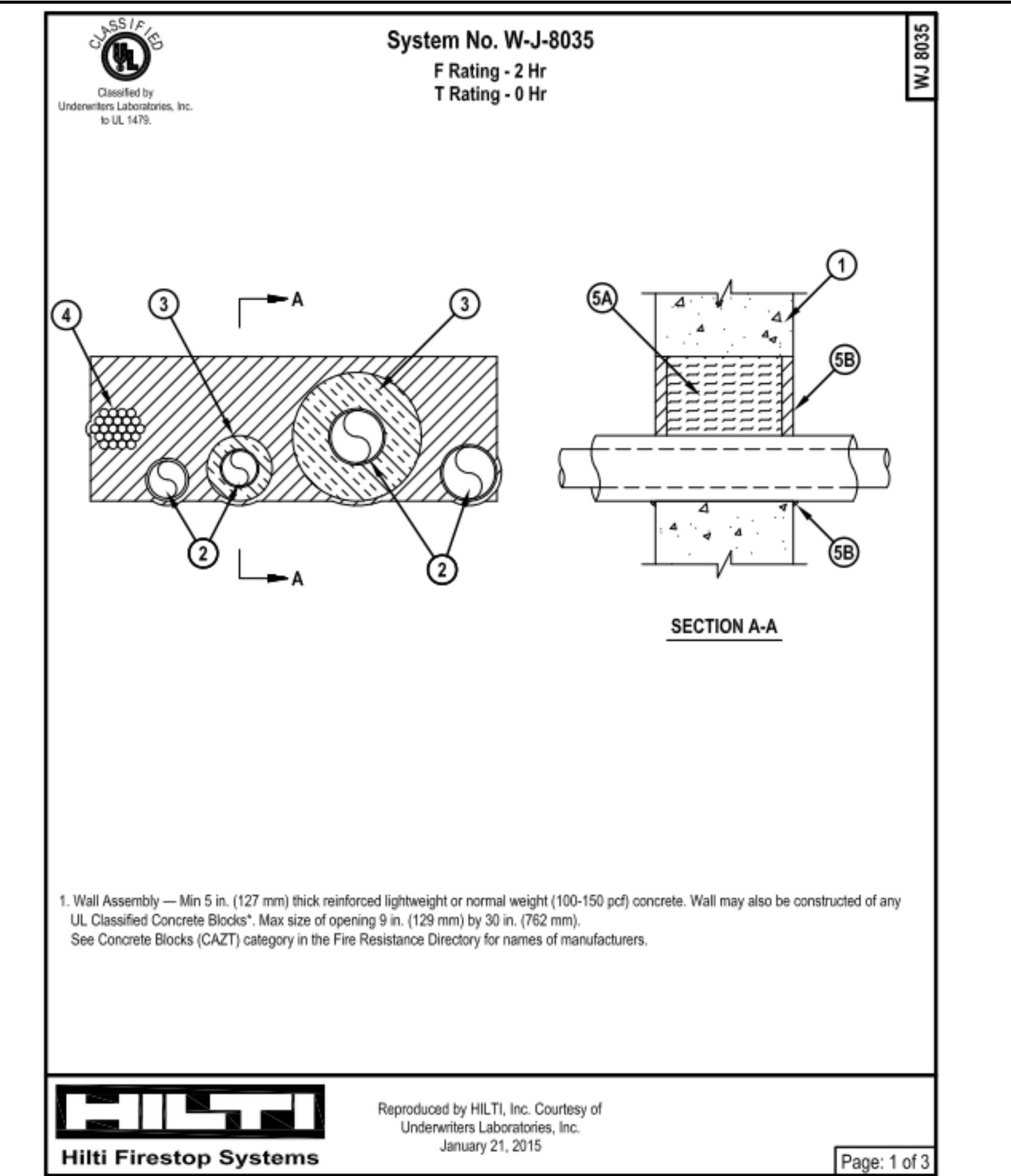
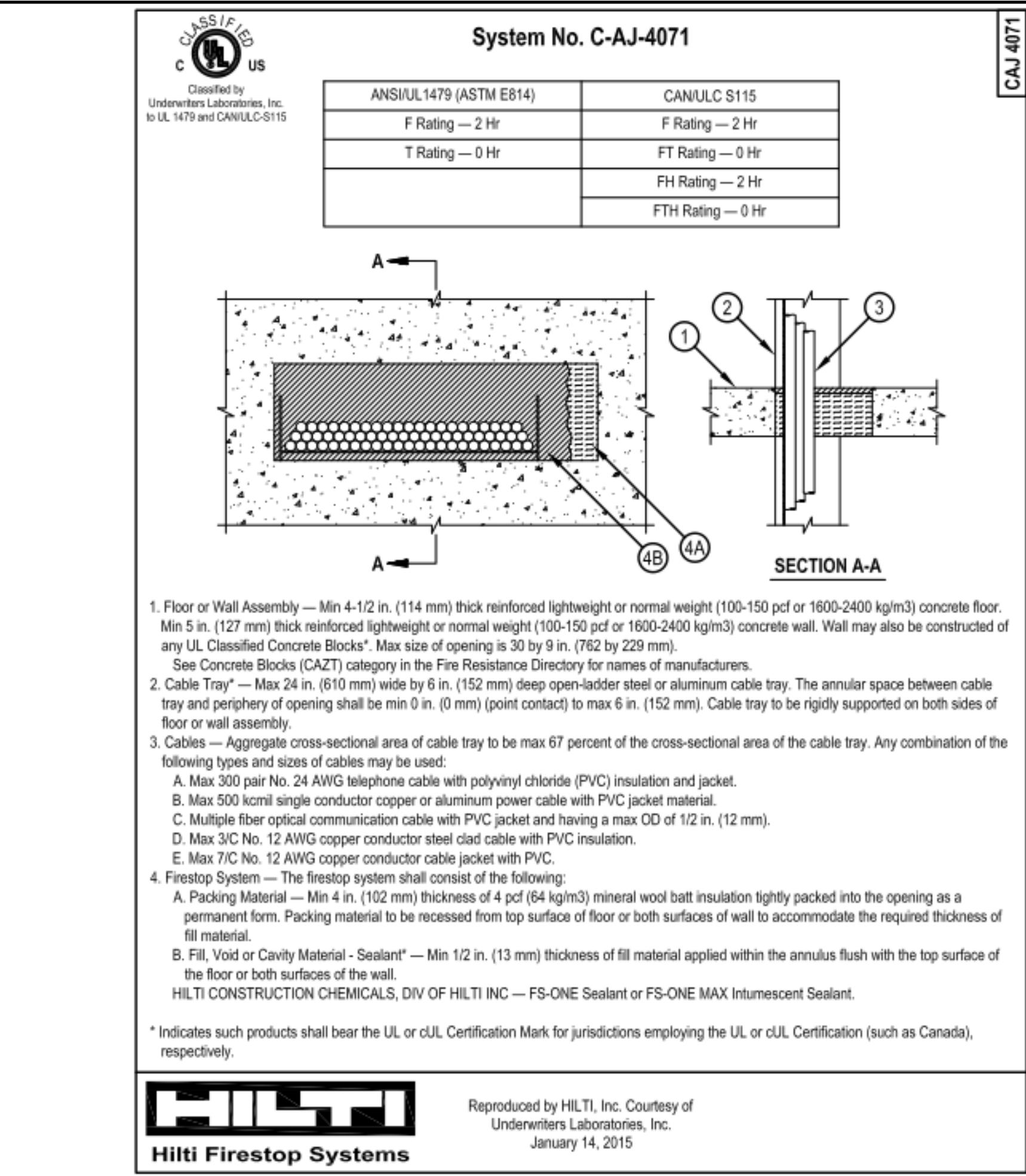
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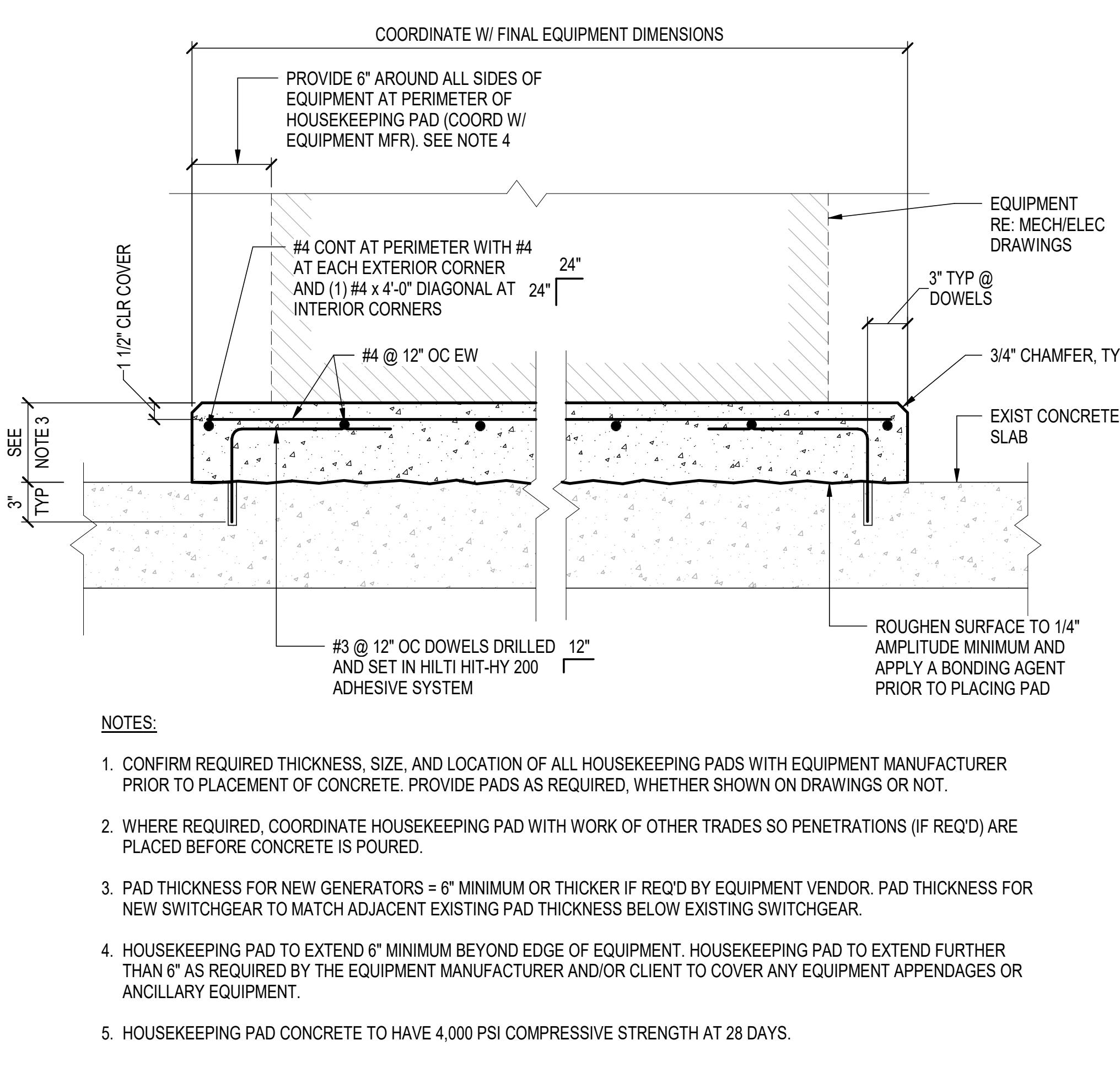
CHECKED BY: K. KUNKEL

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

F1-A-4000

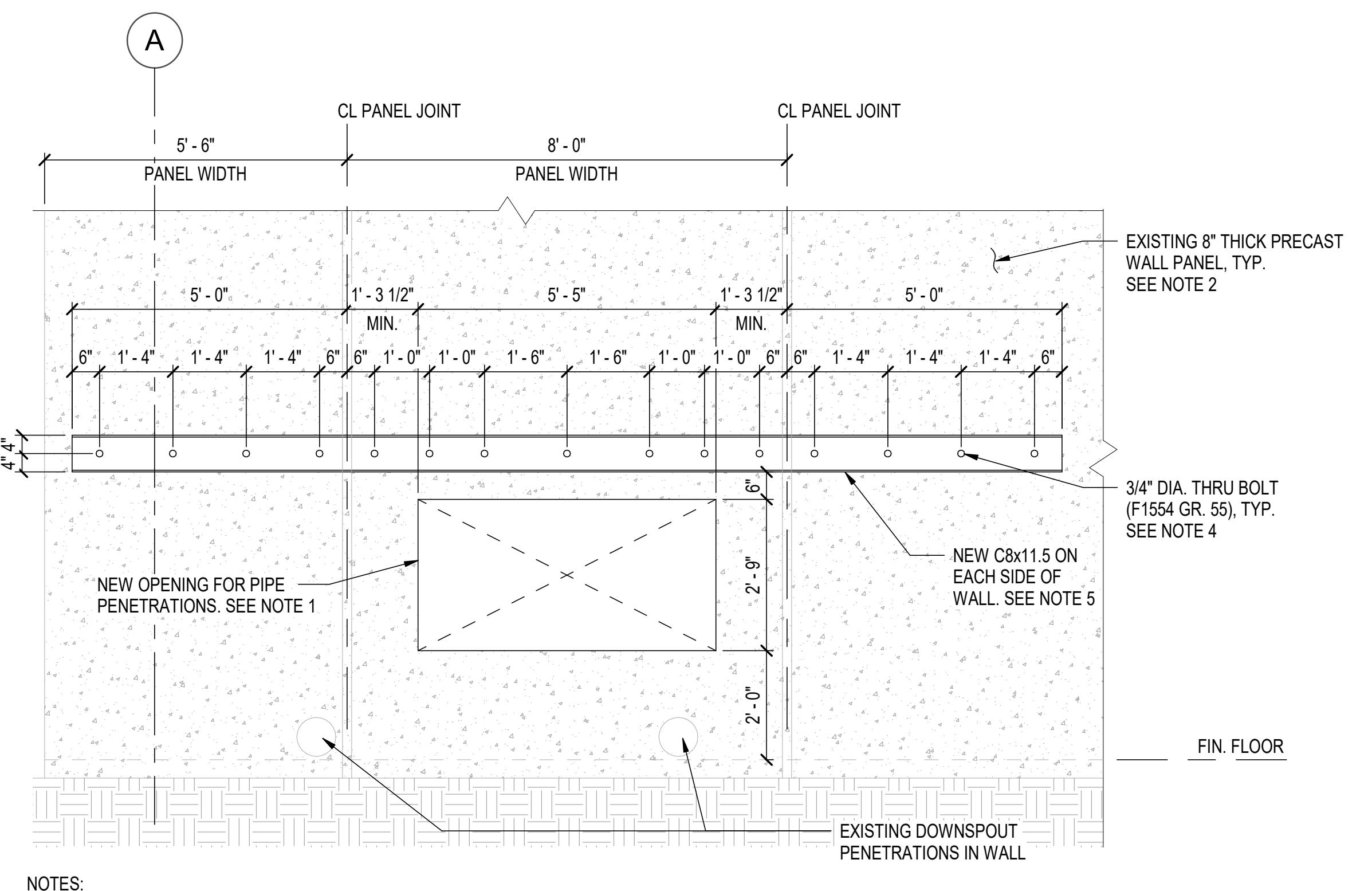
PLOT DATE/TIME: 7/23/2021 5:07:00 PM





1 HOUSEKEEPING PAD DETAIL

1 1/2" = 1'-0"



2 STEEL REINFORCING FOR PIPE PENETRATIONS IN WALL PANEL

1 1/2" = 1'-0"

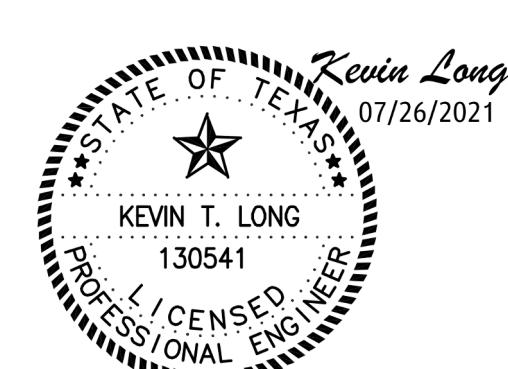
3 TUBING LINE PENETRATION PROCEDURE

1 1/2" = 1'-0"

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C	100% CONSTRUCTION DOCUMENTS	07/26/21

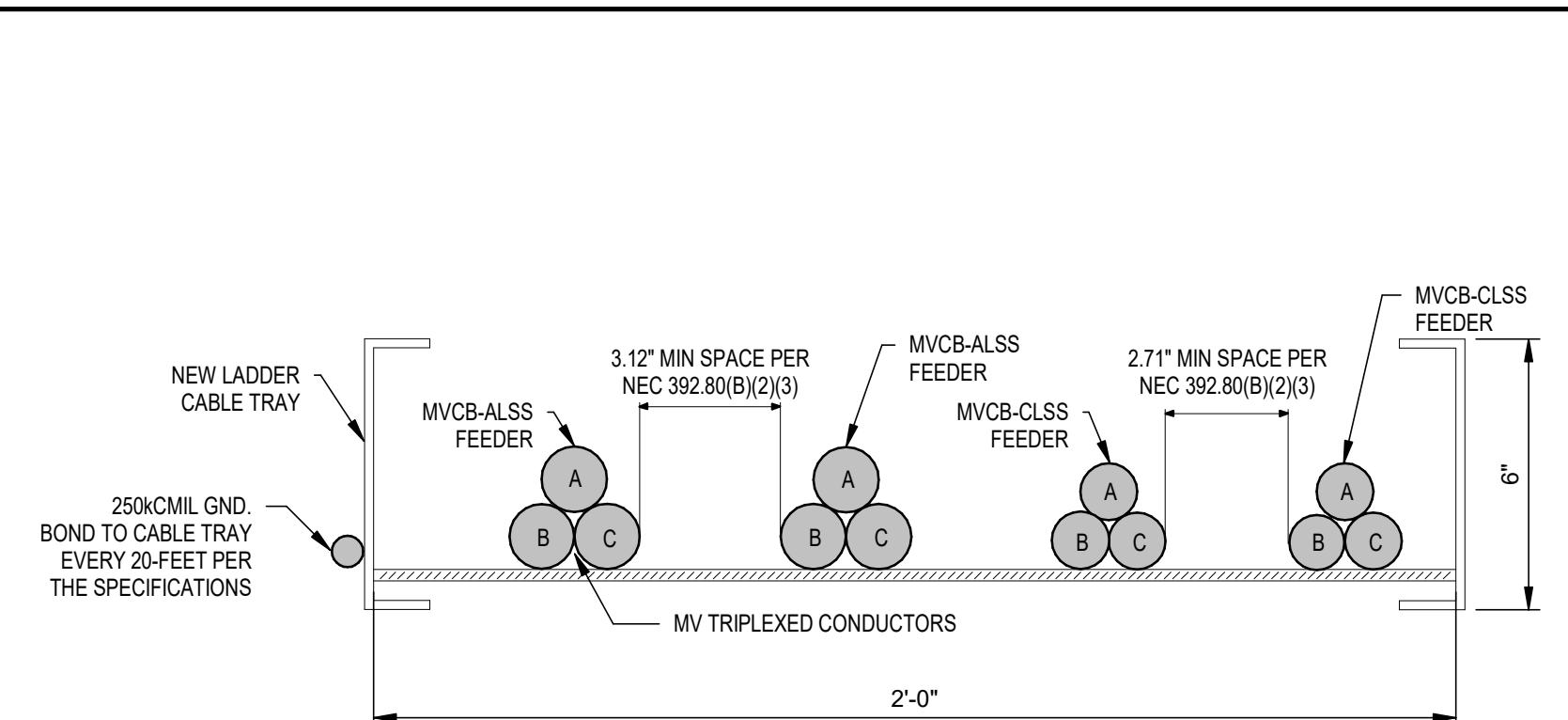
PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

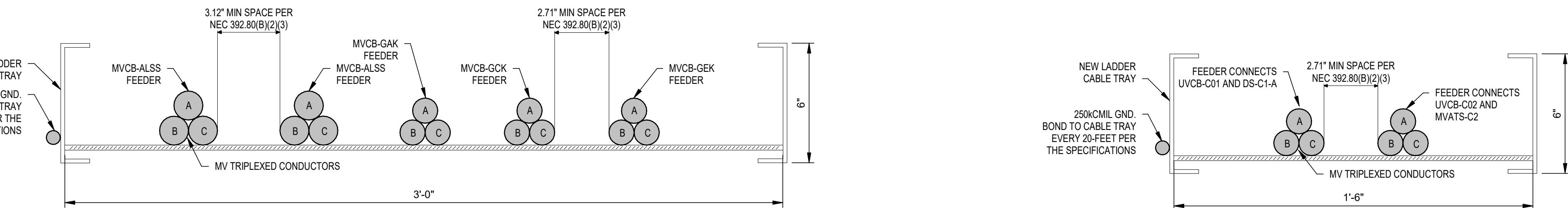
STRUCTURAL DETAILS

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	K. LONG	SHEET NO.:	
CHECKED BY:	J. MALIK		
SCALE:	As indicated		

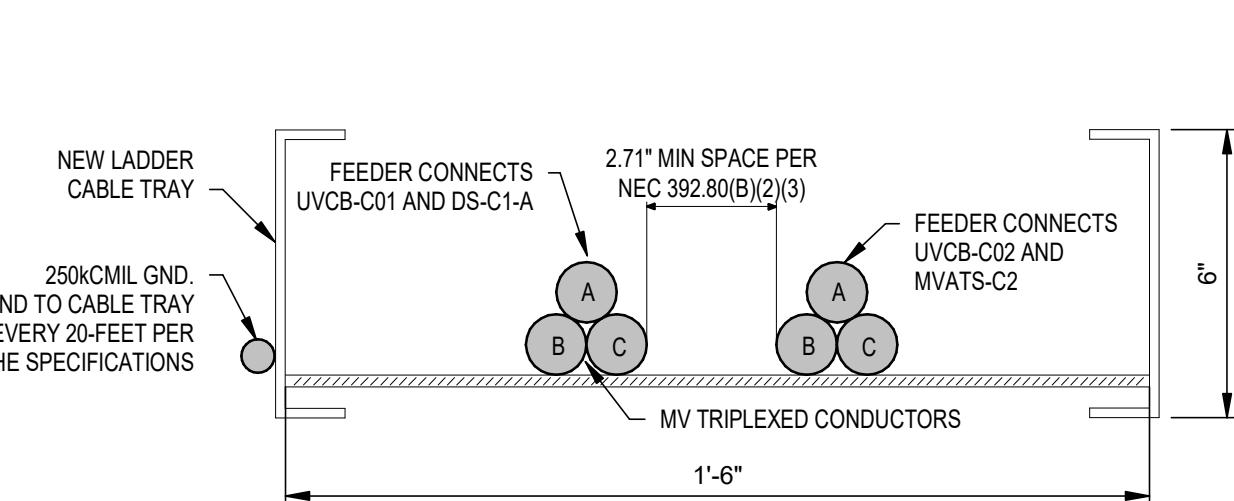
PLOT DATE/TIME: 7/23/2021 8:14:38 PM



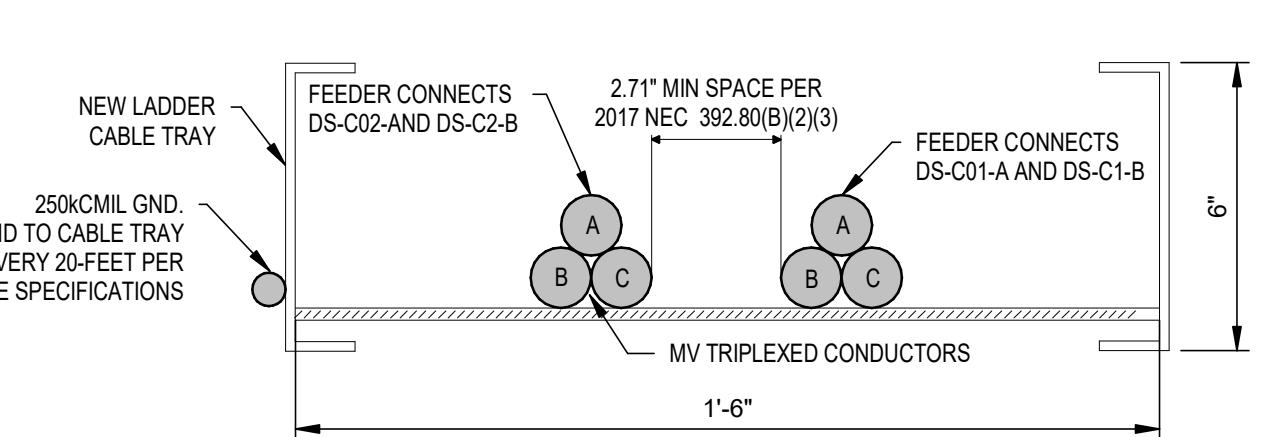
CABLE TRAY SECTION DETAIL -
M.V. FEEDER ALSS & CLSS
1 3' = 1'-0"



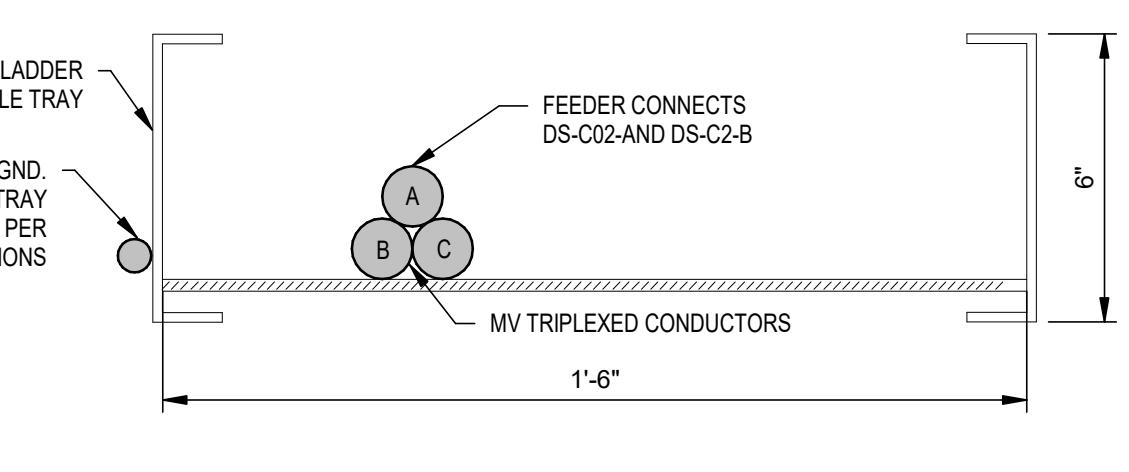
CABLE TRAY SECTION DETAIL -
M.V. FEEDER ALSS, GAK, GEK, & GCK
2 3' = 1'-0"



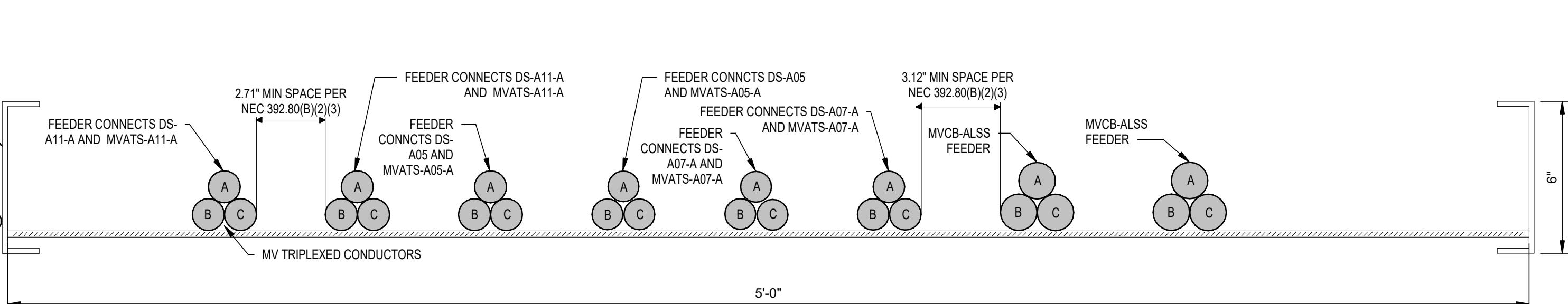
CABLE TRAY SECTION DETAIL -
M.V. FEEDER C01 & C02
3 3' = 1'-0"



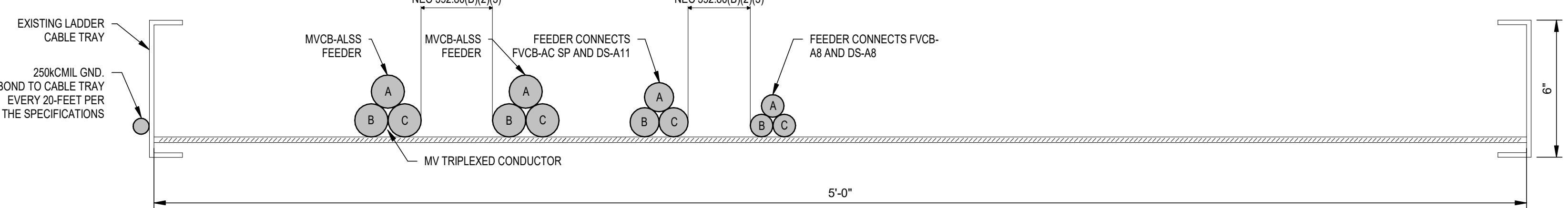
CABLE TRAY SECTION DETAIL -
M.V. FEEDER C02 & C01
4 3' = 1'-0"



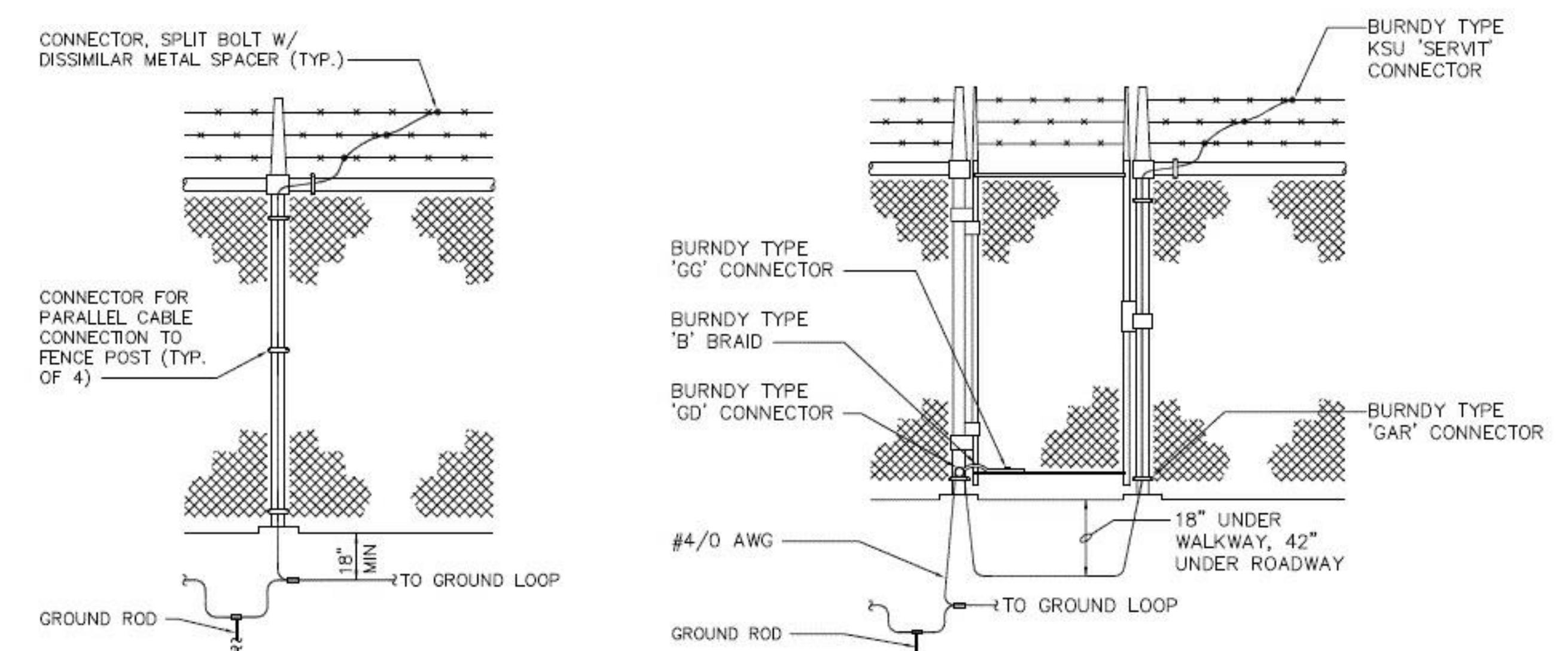
CABLE TRAY SECTION DETAIL -
M.V. FEEDER C02
5 3' = 1'-0"



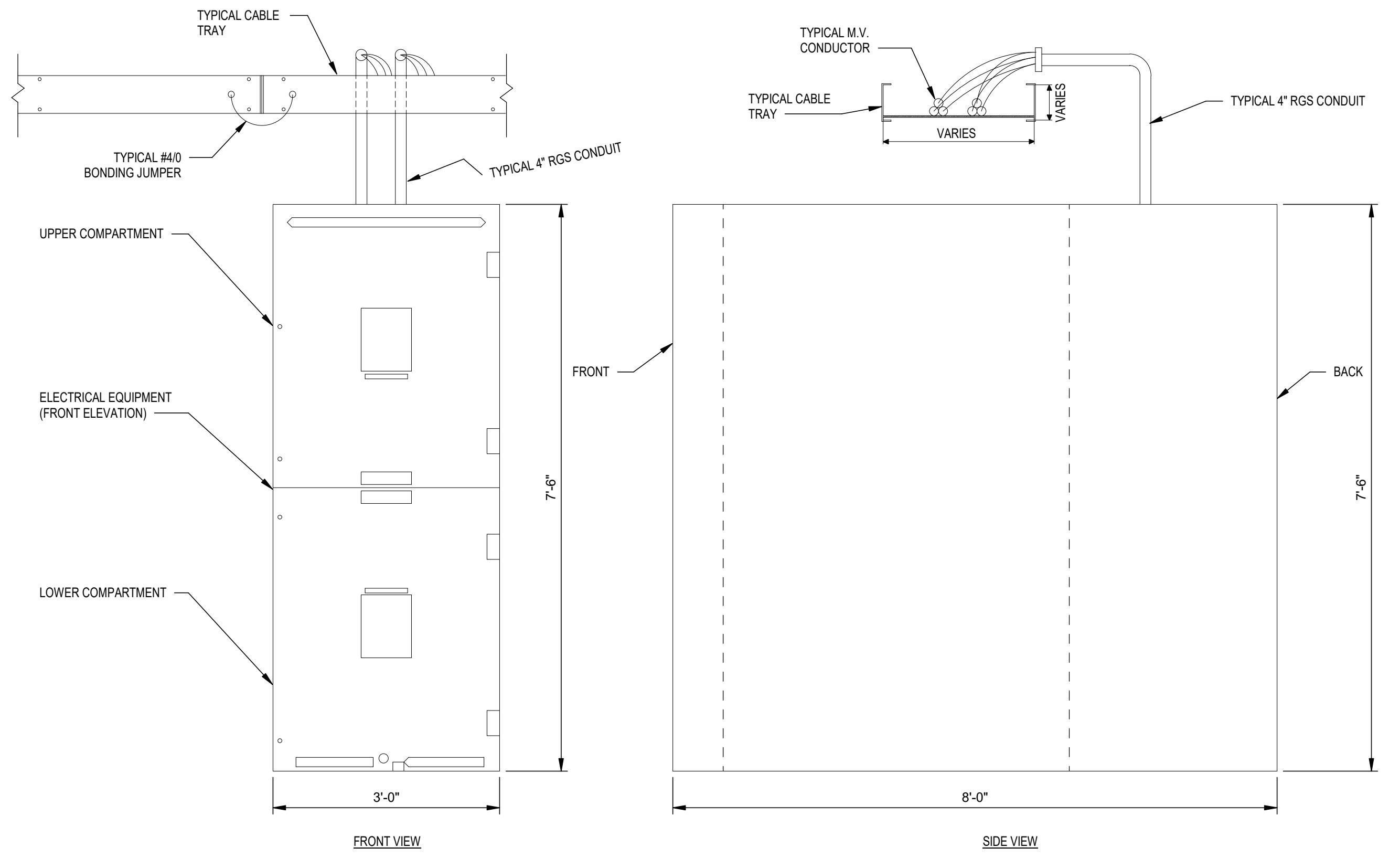
CABLE TRAY SECTION DETAIL - M.V. FEEDER A05, A07, & A11
6 3' = 1'-0"



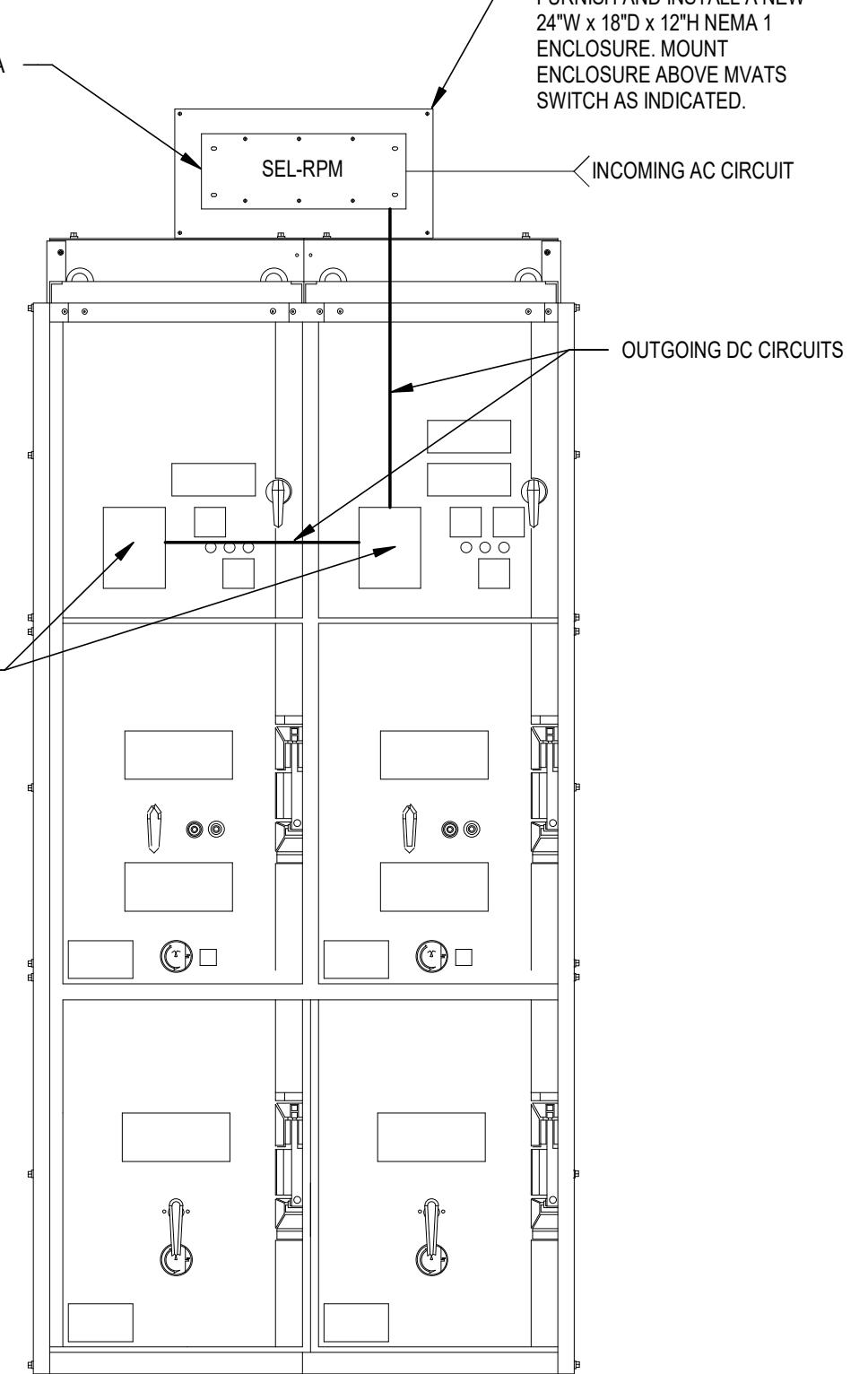
CABLE TRAY SECTION DETAIL - M.V. FEEDER A05, A07, & A11
7 3' = 1'-0"



8 TYPICAL FENCE GROUNDING DETAILS
N.T.S.



9 TYPICAL MEDIUM VOLTAGE ELECTRICAL EQUIPMENT CONNECTION DETAIL
3/4" = 1'-0"



10 TYPICAL MEDIUM VOLTAGE ATS - AC/DC CONTROL POWER
N.T.S.

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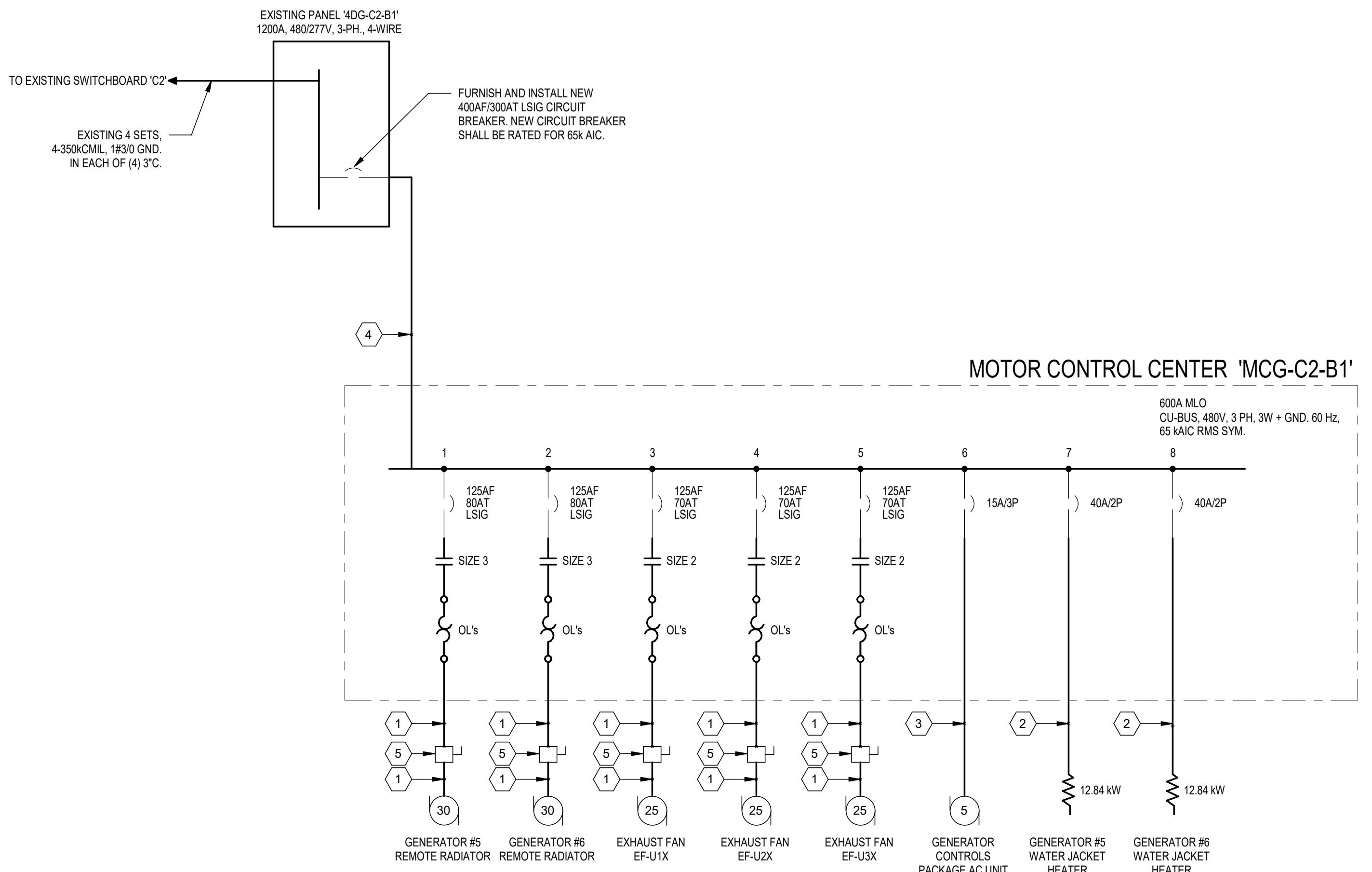
NO	ISSUE	DATE
A	75% PROGRESS	07/08/21
B	95% PROGRESS	07/14/21
C	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL DETAILS

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	As indicated		

PLOT DATE/TIME: 7/22/2021 9:48:37 PM



1 PARTIAL LOW-VOLTAGE ELECTRICAL ONE-LINE DIAGRAM
N.T.S.

MOTOR CONTROL CENTER 'MCG-C2-B1'												
PROJECT : SAS COMPLIANCE PROJ			MAIN CIRCUIT BREAKER : 300A Vertical, 300A Horizontal			ENCLOSURE : NEMA 1						
PROJECT # : 1			MAIN LUGS : ONE 300A Vertical, 300A Horizontal			MOUNTING : FLOR						
LOCATION : EMERG GEN ROOM			BUSING : 300A Vertical, 300A Horizontal			OCP TYPE : CIRCUIT BREAKER						
NOTES : FED FROM 4DG-C2-B1			VOLTAGE : 480V, 3PH, 3W			PROVIDE : GROUND BUS						
			INTERRUPTING : 35 KAIC RMS SYM									
CIRUIT	AMPS	POLE	CIRCUIT DESCRIPTION		LOAD	TYPE	PW	HP	VFD	NEMA STARTER	ACCESSORIES	
1	80	3	GENERATOR #5 REMOTE RADIATOR		11.085	3	A			8	REOPT	8 HEAT
					11.085	3	B			1	LTD	6 A/C
					11.085	3	C			2	EQUIP	7 KITCH
2	80	3	GENERATOR #6 REMOTE RADIATOR		11.085	3	A			3	MTB	8 ELEV
					11.085	3	B			4	COMB	5 COOL
					11.085	3	C			5	COMB	5 COOL
3	70	3	EXHAUST FAN EF-U1X		9.422	3	A			6	PILOT LIGHTS	
					9.422	3	B			7	PILOT LIGHTS	
					9.422	3	C			8	H.O.A SWITCH	
4	70	3	EXHAUST FAN EF-U2X		9.422	3	A			9	PILOT LIGHTS	
					9.422	3	B			10	PILOT LIGHTS	
					9.422	3	C			11	H.O.A SWITCH	
5	70	3	EXHAUST FAN EF-U3X		9.422	3	A			12	4DG	
					9.422	3	B			13	SIZE 2	
					9.422	3	C			14	PILOT LIGHTS	
6	15	3	GEN CONTROLS - PACKAGED A/C UNIT		1.000	4	A			15	PILOT LIGHTS	
					1.000	4	B			16	PILOT LIGHTS	
					1.000	4	C			17	PILOT LIGHTS	
7	40	2	GEN #5 - WATER JACKET HEATER		6.420	2	A			18	PILOT LIGHTS	
					6.420	2	B			19	PILOT LIGHTS	
					-	-	C			20	PILOT LIGHTS	
8	40	2	GEN #6 - WATER JACKET HEATER		6.420	2	A			21	PILOT LIGHTS	
					6.420	2	B			22	PILOT LIGHTS	
					6.420	2	C			23	PILOT LIGHTS	
TOTAL			PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	VA	AMPS	TOTAL DEMAND NOTES			
PHASE A			57.856	0	0	57.856	57.856	209				
PHASE B			64.276	0	0	64.276	64.276	232				
PHASE C			57.856	0	0	57.856	57.856	209				
TOTAL			179.988	0	0	179.988	179.988	217	REVISIONS:			

ELECTRICAL LOAD ANALYSIS FOR DISTRIBUTION PANEL '4DG-C2-B1'

SYSTEM VOLTAGE: 480V, 3-PHASE, 3 WIRE + GND.

LOAD DESCRIPTION	CONNECTED LOAD - KVA	DEMAND FACTOR	SEE NOTE	DEMAND LOAD	
				KVA	AMPERES
EXISTING DISTRIBUTION PANEL PEAK LOAD	542	1.25	1	676	815
NEW MOTOR CONTROL CENTER 'MCG-C2-B1'	180	1.00		180	217
TOTAL N.E.C. DEMAND LOAD				858	1032
EXISTING DISTRIBUTION PANEL RATING				998	1200
SPARE CAPACITY				14.0%	140
					168

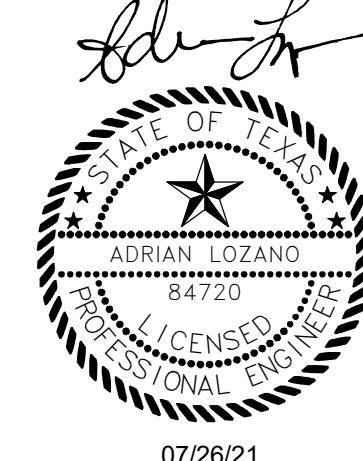
KEYED NOTES: ◻

- 1 FURNISH AND INSTALL 3#4 & 1#8 GND. IN 1-1/4" CONDUIT.
- 2 FURNISH AND INSTALL 2#8 & 1#10 GND. IN 1" CONDUIT.
- 3 FURNISH AND INSTALL 3#10 & 1#10 GND. IN 3/4" CONDUIT.
- 4 FURNISH AND INSTALL 3-500KCMIL & 1#2 GND. IN 4" RGS CONDUIT.
- 5 FURNISH AND INSTALL A 100A/600V/3P/NF/N3R DISCONNECT SWITCH.

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C 100% CONSTRUCTION DOCUMENTS 07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

ELECTRICAL SCHEDULES

DATE: 07/26/21 PRJ. NO.: D3511600
DRAWN BY: RO SHEET NO.:
CHECKED BY: AL
SCALE: N.T.S.
F1-GE-0003

EXISTING PANEL '2PP-C1-A2'

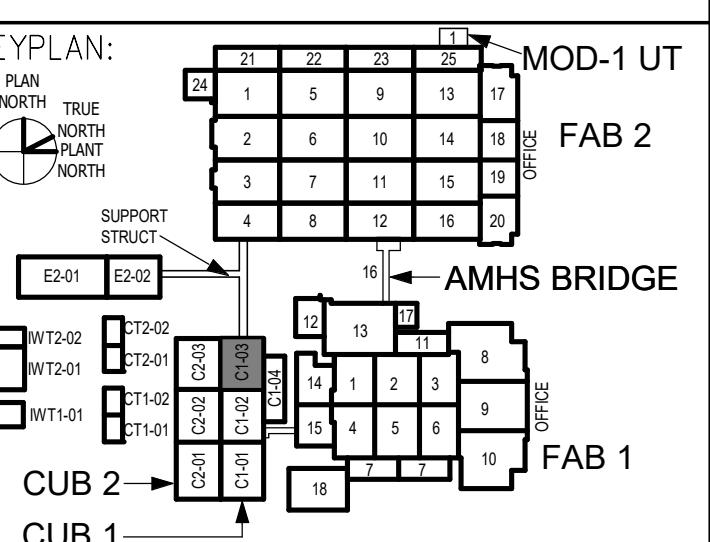
PROJECT : SAS		MAIN CIRCUIT BREAKER : MAIN LUGS ONLY : 225A		ENCLOSURE : NEMA 1 : MOUNTING: SURFACE		0 RECEPT : 5 HEAT						
PROJECT # : FAB 1		CB TYPE : BOLT-ON		1 LTG : 6 AIC		2 EQUIP : 7 KITCH						
NOTES : SUPPLIED FROM DMCCB-C1		VOLTAGE : 208/120V, 3PH, 4W		PROVIDE : NEUTRAL BUS		3 MTR : 8 ELEV						
SCHEDULE DATE : 07/22/21		SUPPLIED FROM: 2PU-C-A1 (C2)		INTERRUPTING : 100 KAIC RMS SYM		4 COMP : 9 125%						
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	CONT ROL PANEL CDA	568	A				THE CLOCKPHOTO CELL	20	1	2
3	50	1	HRF-U101GHT WTR CHILLER #7	568	B				UNKNOWN	20	1	4
5	50	1	HRF-U101F/H1 WTR CHILLER #6	568	C				WATER COOLER	20	1	6
7	20	1	GU-U02E (AC/DC INVERTER) #5	568	A				COOLER	20	1	3
9	20	1	DUPLEX CUB 1 ICE MACHINE	568	B				COPPER (HALL)	20	1	10
11	20	1	WIND DRYER	568	C				URINAL SENSOR	20	1	12
13	20	1	EF-U68 (ROOF)	568	A				CUB 1 OFFICE ROW 1 FURNITURE	20	1	14
15				568	B	5	300		GEN 6 ALTERNATOR HEATER	20	1	16
17	20	1	BOILER-MATIC 3000 CONTROLLER	568	C				CHEMICAL FEED SYSTEMS	20	1	18
19	20	1	BOILER-MATIC 3000 CONTROLLER	568	A				CHEMICAL FEED SYSTEMS	20	1	20
21	20	1	BOILER-MATIC 3000 CONTROLLER	568	B				UNKNOWN	20	1	22
23	20	1	GEN 5 ALTERNATOR HEATER	300	C				UNKNOWN	20	1	24
25	20	1	UNKNOWN	568	A				UNKNOWN	20	1	26
27	20	1	UNKNOWN (OFF)	568	B				UNKNOWN	20	1	30
29	20	1	INVS-U02E (AC/DC POWER)	568	C				UNKNOWN	20	1	32
31	20	1	INVS-U02E (AC/DC POWER)	568	A				SPARE	31		
33	20	1	CUB 1 OFFICE ROW 5 FURNITURE	568	B				SPACE	33		
35	20	1	OFFICE AREA MOULAR FURNITURE	568	C				SPACE	35		
37	20	1	OFFICE AREA MOULAR FURNITURE	568	A				SPACE	37		
39	20	1	UNKNOWN (OFF)	568	B				SPACE	39		
41	30	1	TEMP/CAMERA/GUARD SHACK	568	C				SPACE	41		
PANEL VA		SUB FEED	FEED THRU	TOTAL CONN	VA	AMPS	TOTAL DEMAND		NOTES:			
PHASE A	7,384	0	0	7,384	7,384	62						
PHASE B	6,548	0	0	6,548	6,548	55						
PHASE C	7,684	0	0	7,684	7,684	64						
TOTAL	21,616	0	0	21,616	21,616	60						

EXISTING PANEL '2PU-C-A3 (C2)'

PROJECT : SAS		MAIN CIRCUIT BREAKER : MAIN LUGS ONLY : 100A		ENCLOSURE : NEMA 1 : MOUNTING: SURFACE		0 RECEPT : 5 HEAT						
PROJECT # : FAB 1		CB TYPE : BOLT-ON		1 LTG : 6 AIC		2 EQUIP : 7 KITCH						
NOTES : SUPPLIED FROM: 2PU-C-A1 (C2)		VOLTAGE : 208/120V, 3PH, 4W		PROVIDE : NEUTRAL BUS		3 MTR : 8 ELEV						
SCHEDULE DATE : 07/22/21		SUPPLIED FROM: 2PU-C-A1 (C2)		INTERRUPTING : 100 KAIC RMS SYM		4 COMP : 9 125%						
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	1	POWER COMPRESSOR #2	50	A				MCC-C1-ATA	20	1	2
3	20	1	POWER COMPRESSOR #3	50	B				NEWMATS-12 CONTROL POWER	20	1	4
5	20	1	FAB 1 (COMI CONTROLLER)	50	C				D-1112 UNIT SOS	20	1	6
7	20	1	AIR COMPRESSOR-E5 (CONTROL POWER)	50	A				D-1211 UNIT SOS	20	1	8
9	20	1	HVCS-U02C-C11 (CONTROL POWER)	50	B	2	1,200		NEW GEN 5 BAT CHARGER 1	30	1	10
11	20	1	HVCS-U02C-D9 (CONTROL POWER)	50	C	2	1,200		NEW GEN 6 BAT CHARGER 1	30	1	12
13	20	1	GA-U04 E (MV STARTER CONTROL)	50	A	2	1,200		NEW GEN 6 BAT CHARGER 2	20	1	14
15	20	1	AIR COMPRESSOR #1	50	B				RF-U02A LT-1 (OFF)	20	1	16
17	20	1	AIR COMPRESSOR #2	50	C				NEW GEN 5 BAT CHARGER 2	20	1	18
19	20	1	AIR COMPRESSOR #3	50	A				ELECNET-C1-1FLCUB1 ELEC RM#1	20	1	20
21	30	1	HTLT FLOW METER/B/CW-CHEMICAL FEED	50	B				VFD-U101B-IFP (CONTROL POWER)	30	1	22
23	20	1	EXSW-1 (CONTROL POWER-BAY 5 & 6)	50	C				VFD-U101C-IFP (CONTROL POWER)	30	1	24
25	30	1	EXSW-1 (CONTROL POWER-BAY 9 & 10)	50	A				VFD-U101D-IFP (CONTROL POWER)	20	1	26
27	20	1	EXSW-1 (CONTROL POWER-BAY 3 & 4)	50	B				SPARE	27	20	1
29	30	1	EXSW-1 (CONTROL POWER-BAY 3 & 4)	50	C				SPARE	29	20	1
31					A				SPARE	31		
33					B				SPARE	33		
35					C				SPARE	35		
37					A				SPARE	37		
39					B				SPARE	39		
41					C				SPARE	41		
PANEL VA		SUB FEED	FEED THRU	TOTAL CONN	VA	AMPS	TOTAL DEMAND		NOTES:			
PHASE A	1,200	0	0	1,200	1,200	10						
PHASE B	1,250	0	0	1,250	1,250	20						
PHASE C	2,400	0	0	2,400	2,400	20						
TOTAL	4,850	0	0	4,850	4,850	13						

EXISTING PANEL '2PU-C-A7 (C2)'

PROJECT : SAS		MAIN CIRCUIT BREAKER : 100A		ENCLOSURE : NEMA 1 : MOUNTING: SURFACE		0 RECEPT : 5 HEAT			
PROJECT # : FAB 1 - CLEAN SUBFAB		CB TYPE : BOLT-ON		1 LTG : 6 AIC		2 EQUIP : 7 KITCH			
NOTES : SUPPLIED FROM: 2PU-C-A4 (C2)</									



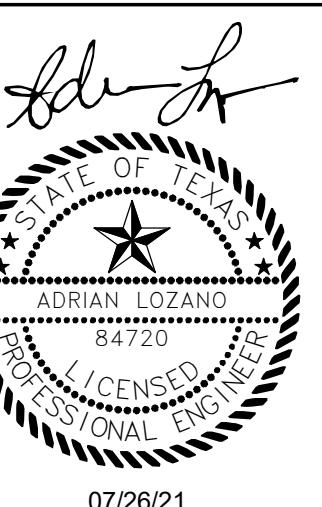
KEYED NOTES:

- EXISTING 3 SETS OF 500CMIL FEEDER CONDUCTORS ("GAK" FEEDER) TO BE DEMOLISHED IN THEIR ENTIRETY.
- DISCONNECT EXISTING 3 SETS OF 500CMIL FEEDER CONDUCTORS ("GK" FEEDER). DEMOLISH ONE SET OF CONDUCTORS OR RE-ROUTE / EXTEND THE REMAINING 2 SETS TO NEW LOCATION INDICATED UNDER NEW WORK DRAWINGS.
- DISCONNECT EXISTING 3 SETS OF 500CMIL FEEDER CONDUCTORS ("GEK" FEEDER). RE-ROUTE / EXTEND CONDUCTORS TO NEW LOCATION INDICATED UNDER NEW WORK DRAWINGS.
- EXISTING DISCONNECT SWITCH TO BE RETROFITTED WITH FUSES IN NEW WORK PHASE.
- EXISTING "A" FEEDER CONDUCTORS TO BE RE-ROUTED TO NEW LOCATION. REFER TO NEW WORK DRAWINGS FOR NEW LOCATION.
- EXISTING GENERATOR CONTROLS AND ALL CONTROL CABLES TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING LIGHT FIXTURE TO BE REMOVED, CLEANED AND RE-INSTALLED AFTER INSTALLATION OF NEW EXHAUST FANS. COORDINATE RE-INSTALLATION LOCATION WITH NEW EXHAUST FANS.
- EXISTING LOAD BANK TO BE REMOVED. CONCRETE PAD TO REMAIN.
- EXISTING JUNCTION BOX SERVING PNEUMATIC ACTUATORS TO REMAIN.

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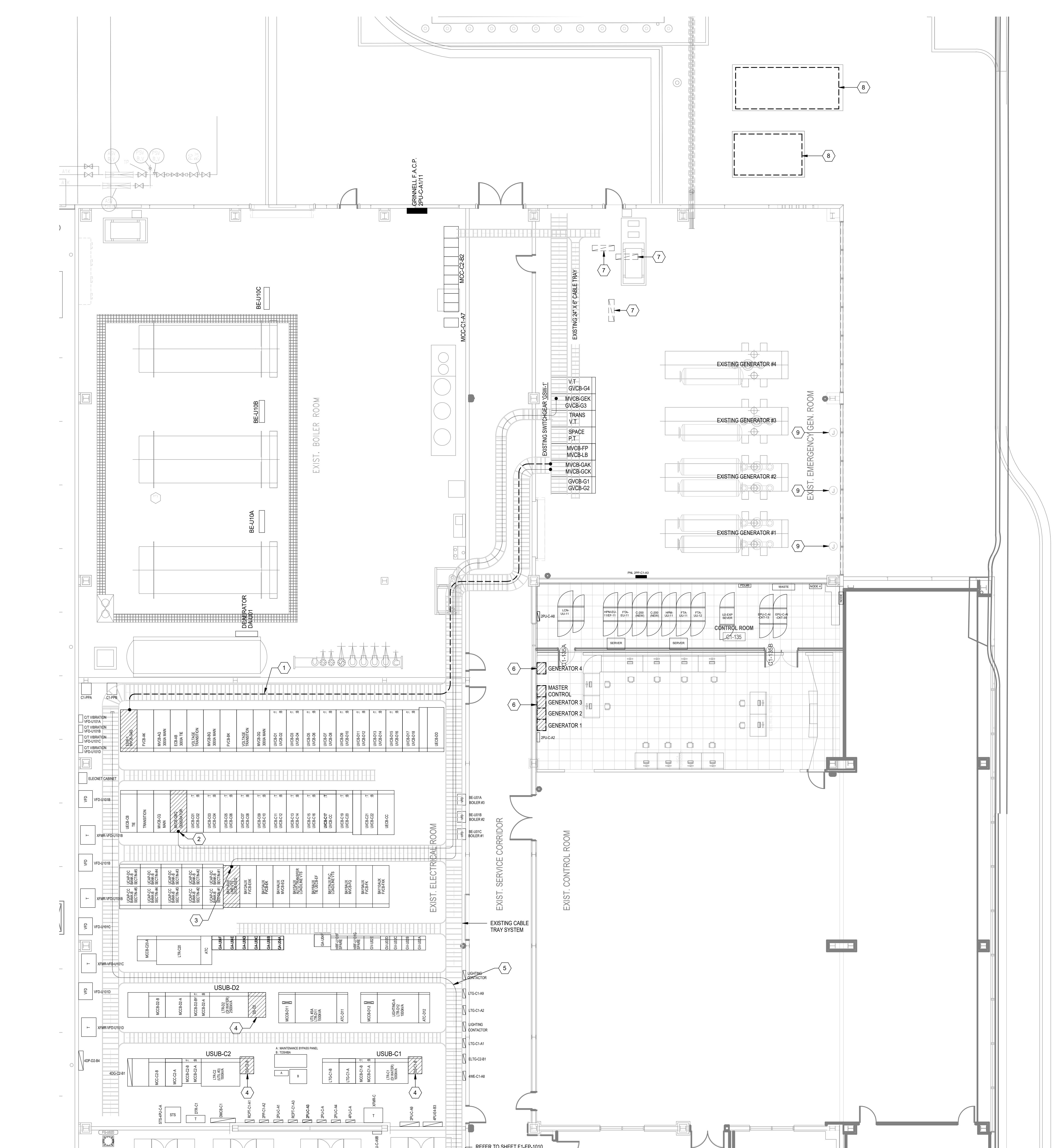


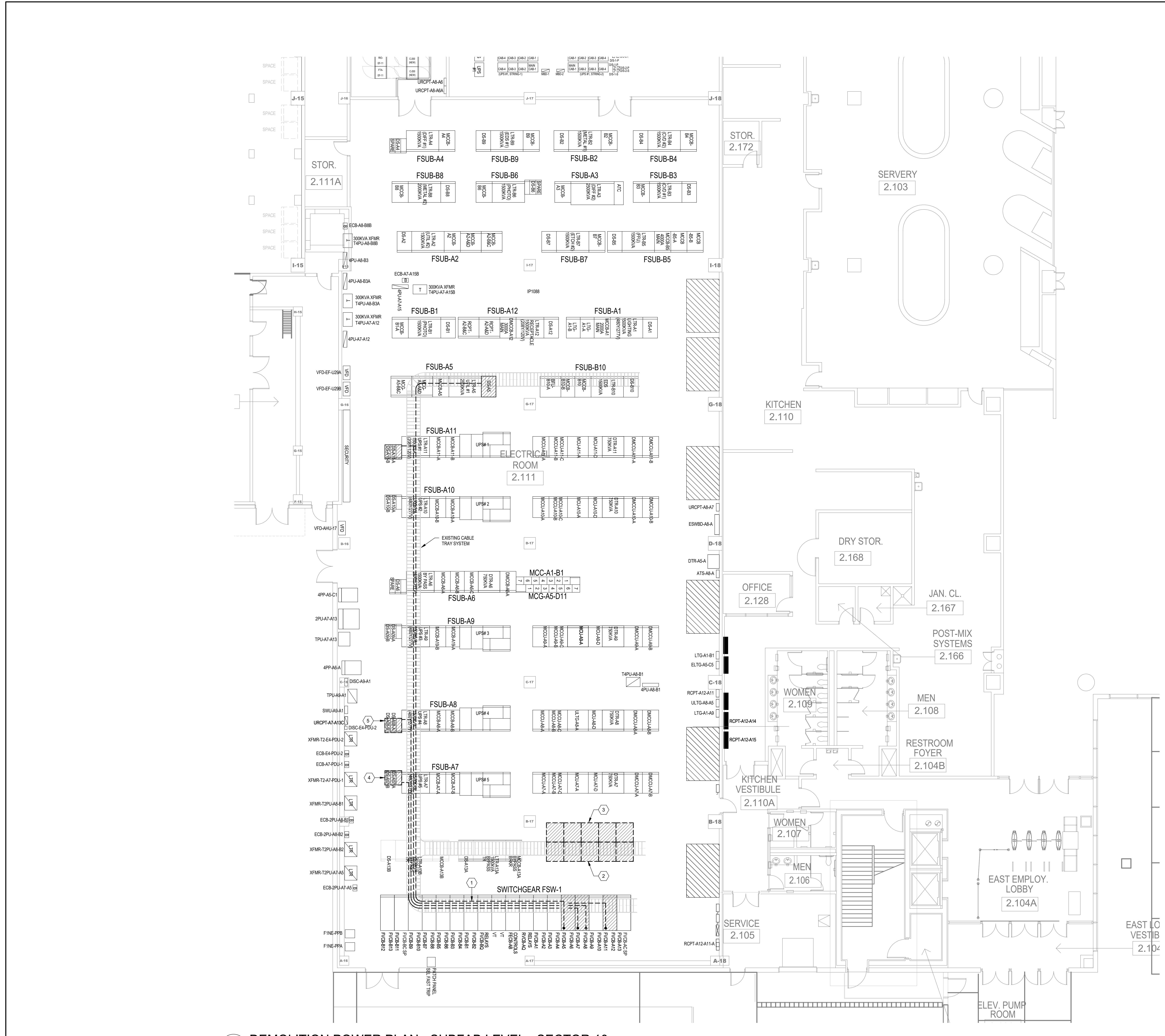
NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
DEMOLITION
POWER PLAN
CUB 1 - FIRST LEVEL
SECTOR 3

DATE: 07/26/21 PRJ. NO.: D3511600
DRAWN BY: RO SHEET NO.:
CHECKED BY: AL
SCALE: 1/8" = 1'-0"
C1-EP-1003(E)





**AUSTIN
SEMICONDU**

SEMICONDUCTOR

KEYPLAN:

PLAN NORTH TRUE NORTH PLANT NORTH

21	22	23	25	1	
24	1	5	9	13	17
	2	6	10	14	18
	3	7	11	15	19
	4	8	12	16	20

SUPPORT STRUCT

E2-01 E2-02

AMHS BRIDGE

IWT2-02
IWT2-01

CT2-02
CT2-01

IWT1-01

CT1-02
CT1-01

CUB 2

CUB 1

MOD-1 UT

FAB 2

OFFICE

16

12 13 17 11 8 9

14 1 2 3 15 4 5 6

18 7 7 10

OFFICE

FAB 1

KEYED NOTES:

- 1 DISCONNECT EXISTING FEEDERS 'A5', 'A7', 'A8' AND 'A11' FROM EACH RESPECTIVE LOAD INDICATED AND RE-ROUTE / EXTEND TO NEW LOADS INDICATED ON NEW WORK DRAWINGS.
 - 2 EXISTING CAPACITOR BANK 'A' AND ASSOCIATED CONDUCTORS TO BE DEMOLISHED IN THEIR ENTIRETY.
 - 3 EXISTING CAPACITOR BANK 'B' AND ASSOCIATED CONDUCTORS TO BE DEMOLISHED IN ITS ENTIRETY.
 - 4 EXISTING DISCONNECT SWITCH 'DS-A7' TO BE RETROFITTED WITH NEW FUSES. REFER TO NEW WORK FOR MORE INFORMATION.
 - 5 EXISTING DISCONNECT SWITCH 'DS-A8' TO BE RETROFITTED WITH NEW FUSES. REFER TO NEW WORK FOR MORE INFORMATION.

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1



ISSUE	DATE
60% PROGRESS	06/11/21
75% PROGRESS	07/06/21
95% PROGRESS	07/14/21
100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
**2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)**
100% CONSTRUCTION DOCUMENTS

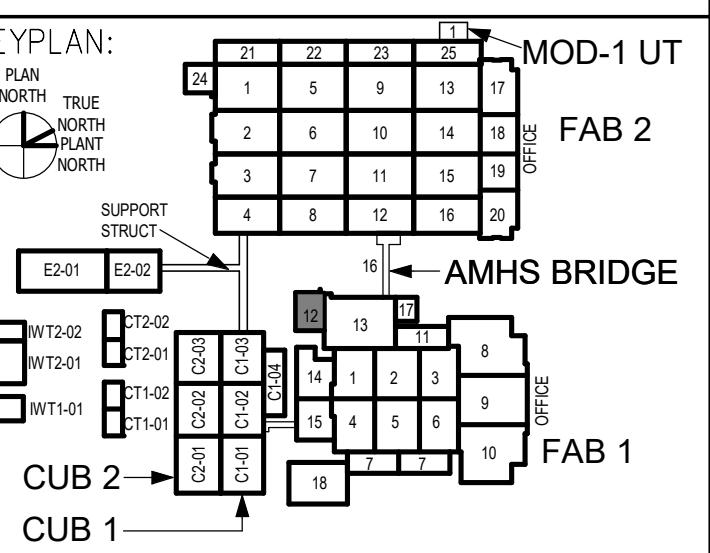
HEET TITLE:

**DEMOLITION
POWER PLAN**

SECTOR 10	
DATE:	07/26/21
DRAWN BY:	RO
CHECKED BY:	AL

PLOT DATE/TIME: 7/22/2021 9:48:30 PM

SAMSUNG

AUSTIN
SEMICONDUCTOR

KEYED NOTES:

- 1 EXISTING AIR TERMINAL CHAMBER ATC-E3 TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION UNDER NEW WORK PHASE.
- 2 EXISTING AIR TERMINAL CHAMBER ATC-E4 TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION UNDER NEW WORK PHASE.
- 3 EXISTING DISCONNECT SWITCH DS-E5 AND DS-F5A TO BE REMOVED IN THEIR ENTIRETY.
- 4 EXISTING FEEDER FVCB-E2, LOCATED IN CRAWLSPACE, TO BE REMOVED IN THEIR ENTIRETY.
- 5 EXISTING FEEDER FVCB-E3, LOCATED IN CRAWLSPACE, TO BE REMOVED IN THEIR ENTIRETY.
- 6 EXISTING FEEDER FVCB-E3, LOCATED IN CRAWLSPACE, AND FVCB-E4 TO BE REMOVED IN THEIR ENTIRETY.
- 7 EXISTING AIR TERMINAL CHAMBER ATC-E2 TO REMAIN.

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84720
07/26/21

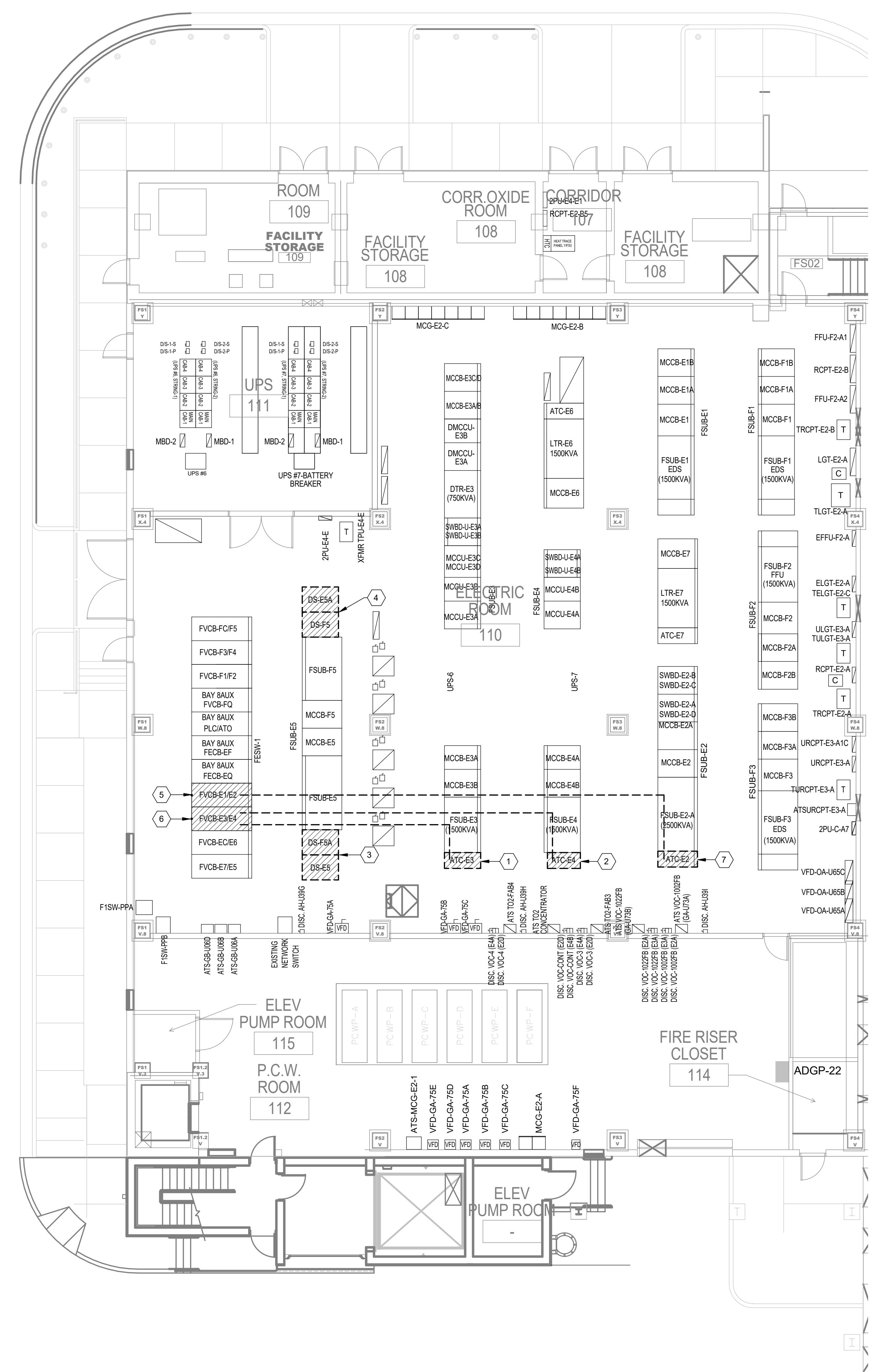
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B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

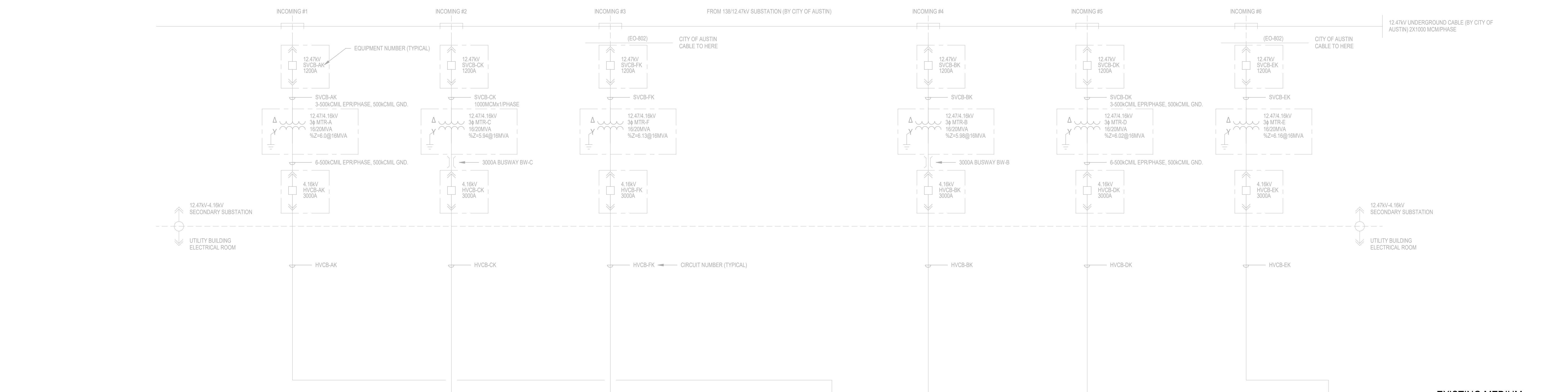
PACKAGE TITLE:
**2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)**
 100% CONSTRUCTION DOCUMENTS

SHEET TITLE:	DEMOLITION POWER PLAN SUBFAB LEVEL SECTOR 12		
DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	1/8" = 1'-0"		

1 DEMOLITION POWER PLAN - SUBFAB LEVEL - SECTOR 12

1/8" = 1'-0"





GENERAL NOTES:

- ALL NEW WORK SHOWN BOLD.
- ALL EQUIPMENT EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- PROVIDE ALL 120V POWER CONNECTION TO SWITCHGEAR, UNIT SUBSTATIONS, MOTOR CONTROL CENTERS AND POWER, CONTROL AND MONITORING BETWEEN ALL EQUIPMENT SECTIONS AND DEVICES.
- CONTRACTOR SHALL PERFORM FIELD VERIFICATION FOR CONNECTION POINT AND PHYSICAL SIZE OF ENCLOSURE BEFORE INSTALLATION.
- EQUIPMENT WILL BE PURCHASED BY SAS.

KEYED NOTES:

- EXISTING 3 SETS, 3-500kMIL 5k CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY. EXISTING CABLE TRAY TO REMAIN.
- EXISTING 3 SETS, 3-500kMIL 5k CONDUCTORS TO BE RE-PURPOSED AS FOLLOWS: 1/1 SET, 3-500kMIL 5k CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY, 2/1 SET, 3-500kMIL 5k CONDUCTORS TO BE RE-Routed TO CIRCUIT BREAKER UVCB-C3 LOCATED IN THE CUB SWITCHGEAR FOR ADDITIONAL INFORMATION. 3/1 SET, 3-500kMIL 5k CONDUCTORS TO BE RE-Routed TO CIRCUIT BREAKER UVCB-C9 LOCATED IN THE CUB SWITCHGEAR USW-1. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION EXISTING CABLE TRAY TO REMAIN.
- EXISTING 3 SETS, 3-500kMIL 5k CONDUCTORS TO BE RE-PURPOSED AS FOLLOWING: 1/1 SET, 3-500kMIL 5k CONDUCTORS TO BE RE-Routed TO CIRCUIT BREAKER ECB-EF LOCATED IN THE CUB SWITCHGEAR USW-1. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. 2/1 SET, 3-500kMIL 5k CONDUCTORS TO BE RE-Routed TO NEW WORK ONE-LINE CIRCUIT BREAKER CONNECTED TO GENERATOR PARALLELING SWITCHGEAR CCB-2. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. EXISTING CABLE TRAY TO REMAIN.
- EXISTING RESISTIVE LOAD BANKS AND 5k CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY. EXISTING CONDUIT TO REMAIN. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- EXISTING 340k (5k), 144 GND CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY. EXISTING CABLE TRAY TO REMAIN. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- EXISTING SINGLE HVLC NON-FUSED DISCONNECT SWITCH TO BE MODIFIED / RETROFITTED WITH (3) NEW 400A FUSES BY THE MANUFACTURER (SCHNEIDER ELECTRIC).
- EXISTING SINGLE HVLC NON-FUSED DISCONNECT SWITCH TO BE MODIFIED / RETROFITTED WITH (3) NEW 450A FUSES BY THE MANUFACTURER (SCHNEIDER ELECTRIC).

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NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE COMPLIANCE PROJECT (FAB-1)
100% CONSTRUCTION DOCUMENTS

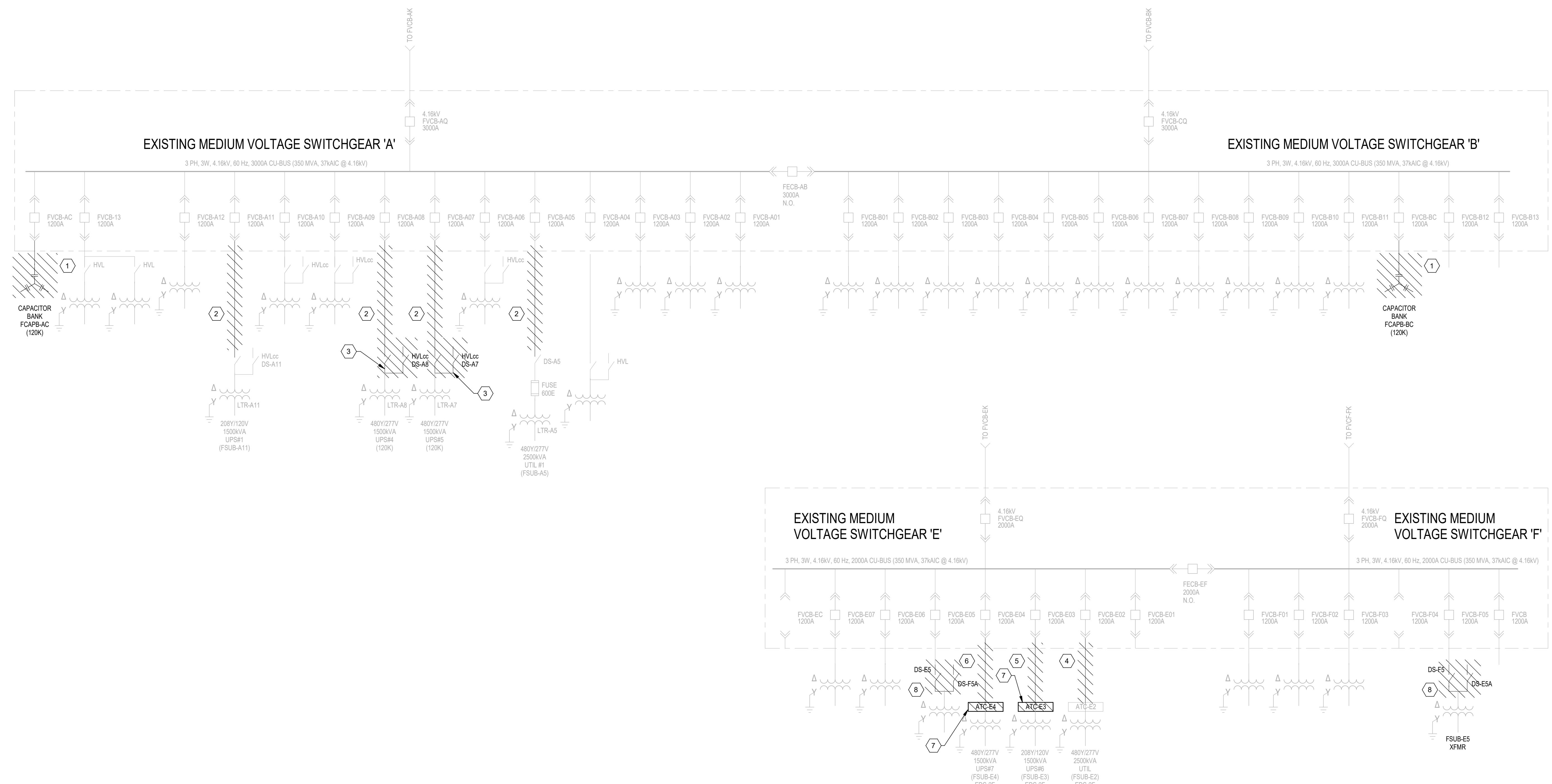
SHEET TITLE:

MASTER ELECTRICAL ONE-LINE DIAGRAM DEMOLITION

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	N.T.S.		

PLOT DATE/TIME: 7/22/2021 9:54:33 PM

1 FAB1 MASTER SINGLE LINE DIAGRAM



GENERAL NOTES:

- 1 ALL NEW WORK SHOWN BOLD.
- 2 ALL EQUIPMENT EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- 3 PROVIDE ALL 120V POWER CONNECTION TO SWITCHGEAR, UNIT SUBSTATIONS, MOTOR CONTROL CENTERS AND POWER, CONTROL AND MONITORING BETWEEN ALL EQUIPMENT SECTIONS AND DEVICES.
- 4 CONTRACTOR SHALL PERFORM FIELD VERIFICATION FOR CONNECTION POINT AND PHYSICAL SIZE OF ENCLOSURE BEFORE INSTALLATION.
- 5 EQUIPMENT WILL BE PURCHASED BY SAS.

KEYED NOTES:

- 1 EXISTING CAPACITOR BANK CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY. EXISTING CABLE TRAY TO REMAIN. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 2 EXISTING 340V (5KV) 144 END CONDUCTORS TO BE REMOVED IN THEIR ENTIRETY. EXISTING CABLE TRAY TO REMAIN. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 3 EXISTING DUPLEX HVL NON-FUSED DISCONNECT SWITCH TO BE MODIFIED / RETROFITTED WITH (3) NEW 43A FUSES BY THE MANUFACTURER (SCHNEIDER ELECTRIC).
- 4 EXISTING 340V (5KV) 144 END CONDUCTORS IN 4'C. TO BE REMOVED IN THEIR ENTIRETY. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 5 EXISTING 3.250kMIL (5KV) 18G GND CONDUCTORS IN 3'C. TO BE REMOVED IN THEIR ENTIRETY. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 6 EXISTING 340V (5KV) 144 END CONDUCTORS IN 3'C. TO BE REMOVED IN THEIR ENTIRETY. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 7 EXISTING TRANSFORMER AIR TERMINAL CHAMBER (ATC) TO BE REMOVED AND SALVAGED / REPURPOSED. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 8 EXISTING DUPLEX HVL NON-FUSED DISCONNECT SWITCH TO BE REMOVED IN ITS ENTIRETY. REFER TO NEW WORK ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

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NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

MASTER ELECTRICAL
ONE-LINE DIAGRAM
DEMOLITION

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	N.T.S.		

PLOT DATE/TIME: 7/22/2021 9:59:07 PM

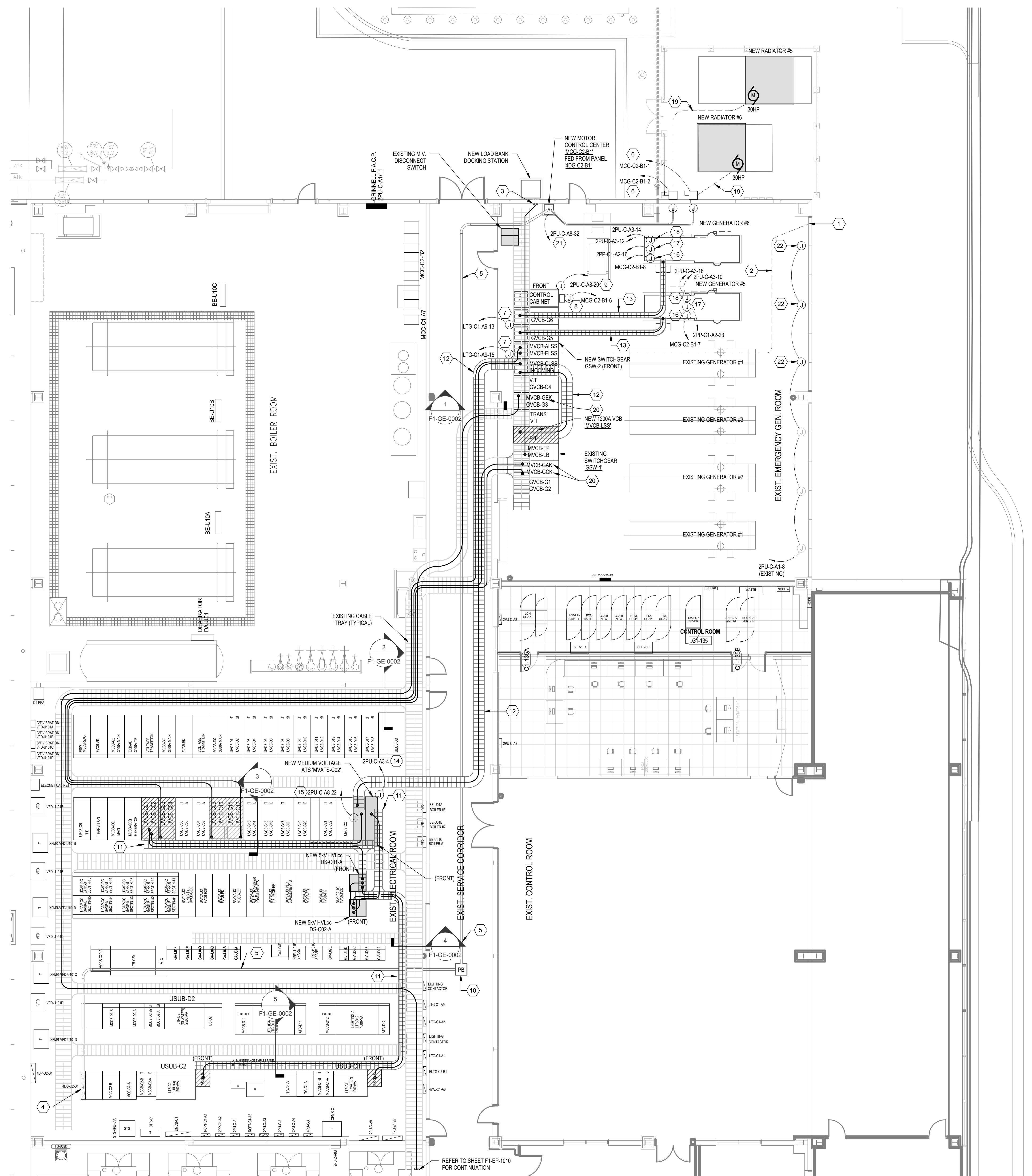


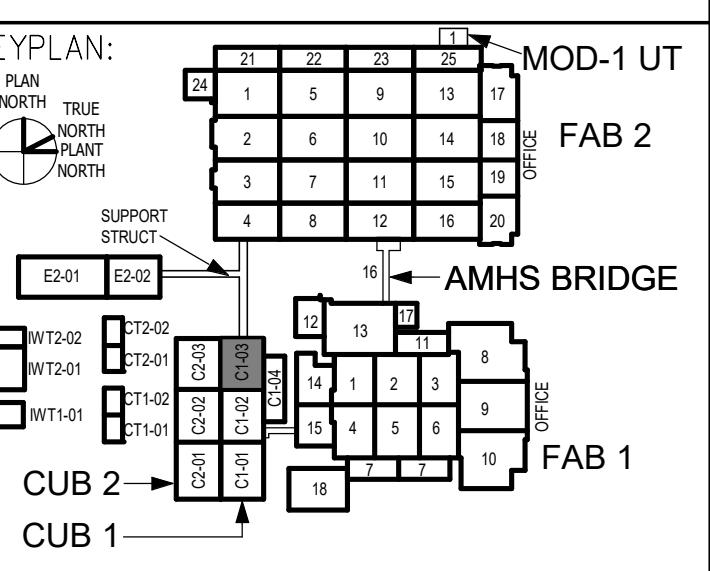
KEYED NOTES:

- ELSS FEEDER IN EXISTING DUCTBANK TO SOUTHWEST EXPANSION ELECTRICAL ROOM.
- RE-ROUTE ELSS FEEDER IN CRAWLSPACE AND TERMINATE ON NEW GENERATOR PARALLELING SWITCHGEAR GSW-2.
- FURNISH AND INSTALL (2) 4" RGS CONDUITS AND EXTEND UP TO CABLE TRAY. TERMINATE NEW CABLES ON EXISTING LOAD BANK CIRCUIT BREAKERS IN EXISTING GENERATOR PANELBOARD.
- FURNISH AND INSTALL A NEW CIRCUIT BREAKER IN EXISTING PANELBOARD TO SERVE NEW MOTOR CONTROL CENTER. AIR RATING OF CIRCUIT BREAKER TO MATCH EXISTING PANELBOARD AIR RATING. REFER TO I1F-GE-0003 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL NEW 4" RGS CONDUIT. REFER TO I1F-GE-0003 FOR ADDITIONAL INFORMATION.
- NEW DISCONNECT SWITCH. PROVIDE SEAL-OFF FITTINGS FOR NEW CONDUIT INSTALLED WITHIN THE HAZARDOUS BOUNDARY. REFER TO MOTOR CONTROL CENTER ONE-LINE DIAGRAM FOR MORE INFORMATION.
- FURNISH AND INSTALL 120-VOLT POWER FOR SWITCHGEAR ENCLOSURE SPACE HEATERS. CONNECT A MAXIMUM OF 2 VERTICAL SECTIONS PER 20A/1P BRANCH CIRCUIT. EXTEND 2#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- FURNISH AND INSTALL 480V/3 PHASE POWER FOR NEW GENERATOR CONTROL CABINET PACKAGED AC UNIT. EXTEND 3#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- FURNISH AND INSTALL 120V UPS BACKED POWER FOR CONTROL CABINET. EXTEND 2#10 AND #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- FURNISH AND INSTALL A NEW 24W X 24D FULL PULL BOX AND LOCATE ABOVE LADDER CEILINGS.
- FURNISH AND INSTALL A NEW 18W X 4D LADDER CABLE TRAY SYSTEM.
- FURNISH AND INSTALL A NEW 24W X 4D LADDER CABLE TRAY SYSTEM.
- FURNISH AND INSTALL A NEW 12W X 4D LADDER CABLE TRAY SYSTEM.
- FURNISH AND INSTALL 120V POWER FOR MVT'S SEL POWER SUPPLY. EXTEND 2#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING. REFER TO I1F-GE-0002 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL 120V POWER FOR MVT'S SEL POWER SUPPLY. EXTEND 2#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- FURNISH AND INSTALL 120V POWER FOR GENERATOR ALTERNATOR SPACE HEATER. EXTEND 2#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- FURNISH AND INSTALL 120V POWER FOR GENERATOR BATTERY CHARGER. EXTEND 2#10 & #10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- INSTALL NEW CONDUIT UNDERGROUND.
- EXISTING BREAKERS: GCB, 3AK, AND 0CK SHALL BE REUSED TO SERVE CONDENSER WATER PUMP #5 (C05), AIR COMPRESSOR #2 (C02), AND LT CHILLER #5 (C12). REVISE LOAD LABELS IN GSW-1 TO MATCH NEW LOADS SERVED. REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION. REFER TO DEMOLITION ONE-LINE DIAGRAM FOR CABLE INFORMATION.
- FURNISH AND INSTALL 120V POWER FOR MCC CONTROL POWER. EXTEND 2#10 & #10 GND. IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.
- EXTEND EXISTING 120V CIRCUIT SERVING ACTUATORS TO NEW JUNCTION BOXES SERVING NEW ACTUATORS.

GENERAL NOTES:

- REFER TO DETAIL 10 ON SHEET F1-GE-0002 FOR TYPICAL ATS REDUNDANT POWER MODULE DETAIL.



AUSTIN
SEMICONDUCTOR

GENERAL NOTES:

- 1 THE INTENT OF THE LIGHTNING PROTECTION SYSTEM (LPS) IS SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL PROVIDE A DESIGN THAT MEETS THE REQUIREMENTS IDENTIFIED IN IEC AND NFPA 780.

KEYED NOTES: ◻

- 1 NEW DISCONNECT SWITCH REFER TO MOTOR CONTROL CENTER ONE-LINE DIAGRAM FOR MORE INFORMATION.
2 FURNISH AND INSTALL A NEW LIGHTNING PROTECTION AIR TERMINAL AND GROUNDING CONDUCTOR FOR NEW EXHAUST FAN. CONNECT NEW LIGHTNING PROTECTION SYSTEM TO EXISTING SYSTEM LOCATED ON ROOF.
3 EXTEND EXISTING LIGHTNING PROTECTION SYSTEM TO NEW EXHAUST FANS.
4 FURNISH AND INSTALL NEW LIGHTNING PROTECTION AIR TERMINALS ON NEW EXHAUST FANS.

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SEAL:

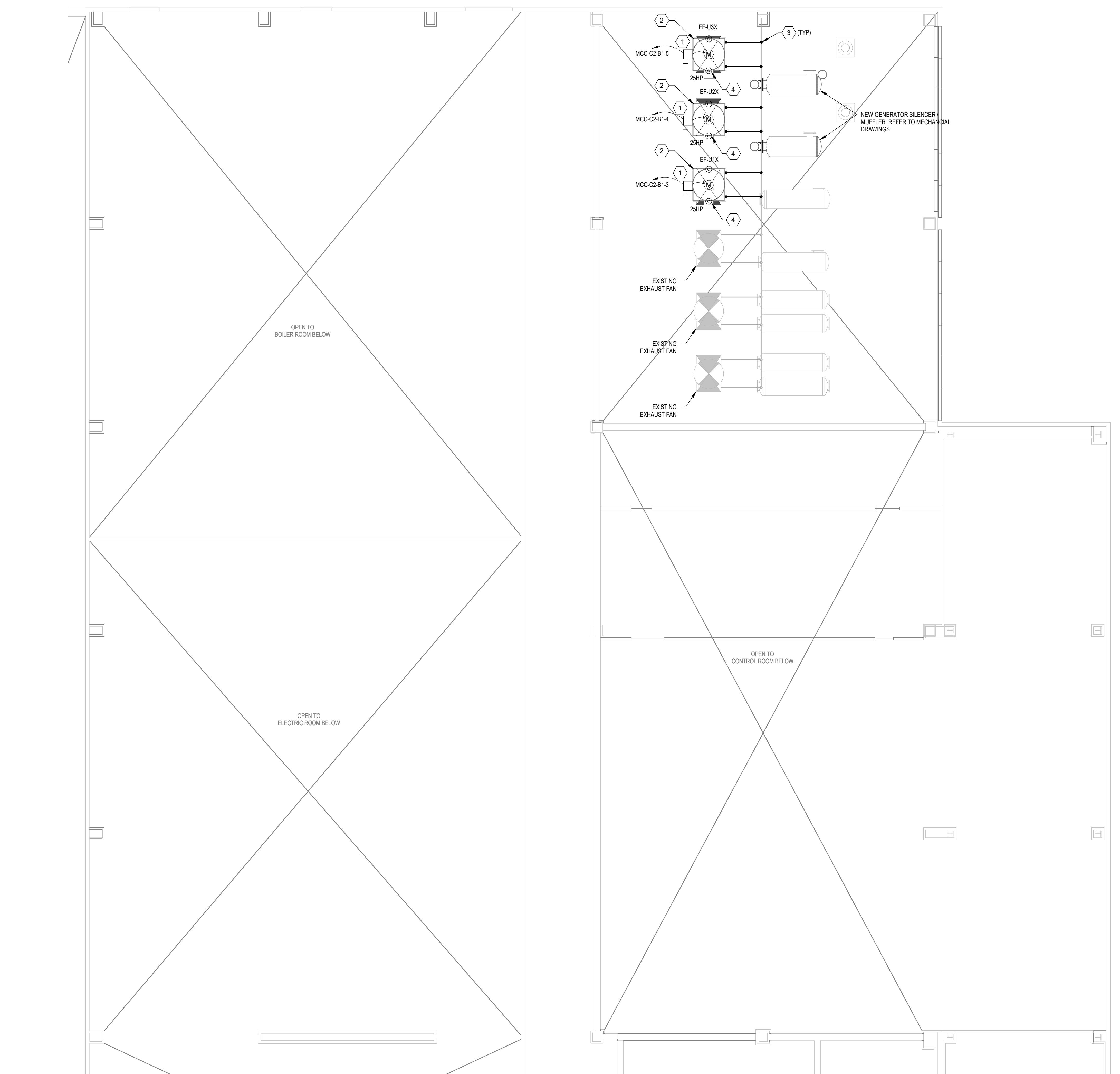
84720
07/26/21

NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

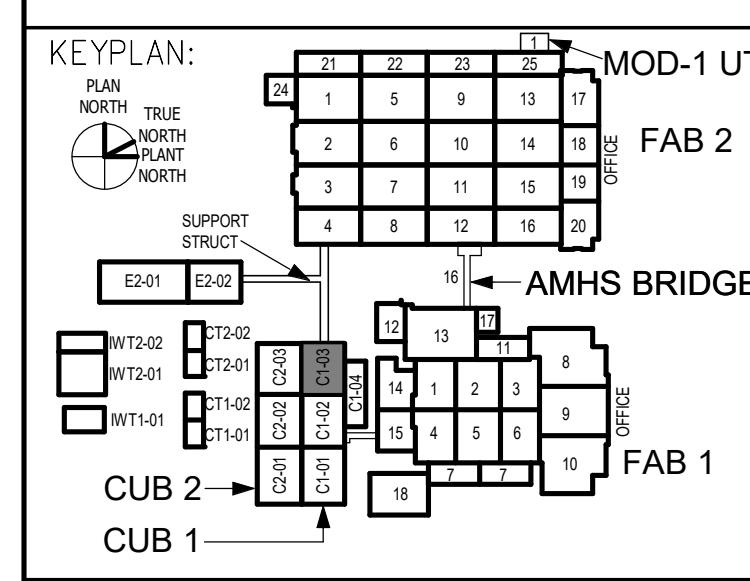
PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
NEW WORK
POWER PLAN
CUB 1 - ROOF LEVEL
SECTOR 3

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	1/8" = 1'-0"		



1 NEW WORK POWER PLAN - CUB-1 - ROOF LEVEL - SECTOR 03
1/8" = 1'-0"

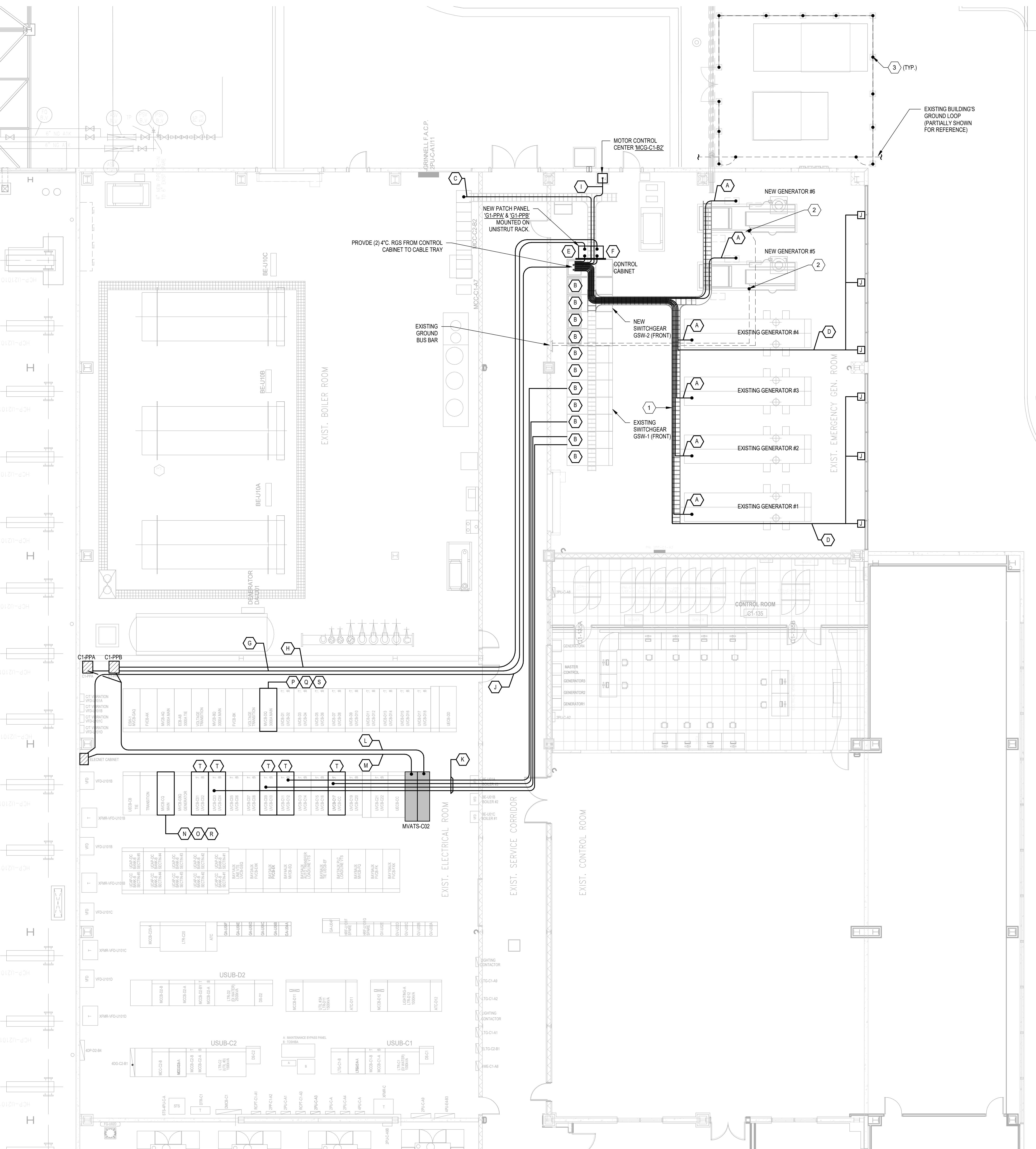


GENERAL NOTES:

- 1 PROVIDE INTERNAL FIBER OPTIC JUMPER CABLES INSIDE OF EACH PATCH PANEL ENCLOSURE INDICATED THIS SHEET.
- 2 NEW PATCH PANELS ARE SHOWN DIAGRAMMATICALLY. FINAL LOCATION TO BE DETERMINED IN THE FIELD.

KEYED NOTES:

- 1 FURNISH AND INSTALL A NEW 18W X 4'D LADDER CABLE TRAY SYSTEM.
- 2 FURNISH AND INSTALL 1/4" GROUNDING ELECTRODE CONDUCTOR TO EACH FENCE POST AND BOND TO EXISTING BUILDINGS GROUND LOOP. REFER TO DETAIL 9 ON SHEET F1-GE-0002 FOR MORE INFORMATION.
- 3 FURNISH AND INSTALL A NEW #40 GROUNDING ELECTRODE CONDUCTOR TO EACH FENCE POST AND BOND TO EXISTING BUILDINGS GROUND LOOP. REFER TO DETAIL 9 ON SHEET F1-GE-0002 FOR MORE INFORMATION.



1 NEW WORK CONTROL WIRE AND GROUNDING PLAN - CUB-1 - FIRST LEVEL - SECTOR 03

1/8" = 1'-0"

NO	FROM	TO	CABLE	DESCRIPTION / NOTES
A	NEW CONTROL CABINET	GENERATOR	1 SET OF 10 #12 AWG BUNDLED CONDUCTORS 2 SET OF 10 #14 AWG BUNDLED CONDUCTORS 3 SET OF #18 SINGLE TWISTED PAIR SHIELDED CONDUCTORS 1 CAT 5 ETHERNET CABLE	CTs / Pt's 24VDC, VR SIGNALS I/O POINTS, 24VDC, VR SIGNALS ANALOG SIGNALS FOR GOVERNOR/FIELD/VOLTAGE REGULATOR SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
B	NEW CONTROL CABINET	SWITCHGEAR CUBICLE	2 SET OF 10 #12 AWG BUNDLED CONDUCTORS 2 SET OF #14 AWG BUNDLED CONDUCTORS 2 CAT 6 ETHERNET CABLES	I/O POINTS SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
C	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-1)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-2)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-3)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (FUEL PUMP-1)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (FUEL PUMP-2)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
D	NEW CONTROL CABINET	LOUVER JUNCTION BOXES	1 SET OF 6 #14 AWG BUNDLED CONDUCTORS	6H4'S ROUTED TO EACH ACQUATOR. VERIFY QUANTITY WITH MECHANICAL.
E	NEW CONTROL CABINET	NEW PATCH PANEL (G1-PPA)	12 PAIRS 850nm 62.5um MM F/O PATCH CORD	
F	NEW CONTROL CABINET	NEW PATCH PANEL (G1-PPB)	12 PAIRS 850nm 62.5um MM F/O PATCH CORD	
G	NEW PATCH PANEL (G1-PPA)	C1-PPA	1 ARMORED 850mm MM 62.5um 24 STANDARD BUNDLE F/O CABLE	
H	NEW PATCH PANEL (G1-PPB)	C1-PPB	1 ARMORED 850mm MM 62.5um 24 STANDARD BUNDLE F/O CABLE	
I	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-4)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-5)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
	NEW CONTROL CABINET	MCG-C2-B2 (EXHAUST FAN-6)	1 SET OF 10 #16 AWG BUNDLED CONDUCTORS 1 TWISTED PAIR SHIELDED CONDUCTORS	SIGNALS - START, STOP, RUN STATUS, HOA AUTO STATUS, SPARE, +40-20mA CURRENT FEEDBACK
J	NEW CONTROL CABINET	E-FMCS NETWORK SWITCH	3 CAT 6 ETHERNET CABLE	
K	MVCB-GCK, MVCB-GAK, MVCB-GEK, MVCB-FP	UVCB-C03, UVCB-C09, UVCB-C12, UVCB-C17	4 SETS OF 10 #16 AWG BUNDLED CONDUCTORS	SIGNALS - BREAKER CONTROL, BREAKER STATUS, VARIOUS RELAY ALARMS
L	MVATS-C02	C1-PPA	1 PAIR OF MM F/O PATCH CORD	GENERATOR CONTROLS
		C1-PPB	1 PAIR OF MM F/O PATCH CORD	
M	MVATS-C02	E-FMCS NETWORK SWITCH	1 CAT 6 ETHERNET CABLE	POWER MONITORING
N	RTAC-X1 @ SWITCHGEAR 'C' SECTION	C1-PPA, C1-PPB	2 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
O	RTAC-X2 @ SWITCHGEAR 'C' SECTION	C1-PPA, C1-PPB	2 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
P	RTAC-Y1 @ SWITCHGEAR 'D' SECTION	C1-PPA, C1-PPB	2 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
Q	RTAC-Y2 @ SWITCHGEAR 'D' SECTION	C1-PPA, C1-PPB	2 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
R	RTAC-X1 & X2 @ SWITCHGEAR 'C' SECTION	NETWORK SWITCH	2 CAT 6 ETHERNET CABLE	POWER MONITORING
S	RTAC-Y1 & Y2 @ SWITCHGEAR 'D' SECTION	NETWORK SWITCH	2 CAT 6 ETHERNET CABLE	POWER MONITORING
T	UVCB-C02, UVCB-C03, UVCB-C09, UVCB-C12, UVCB-C17 (751 RELAYS)	RTAC-X1 & X2 AND RTAC-Y1 & Y2	20 PAIR OF OM1 F/O PATCH CORD	1 PAIR ROUTED INTERNALLY TO EACH 751 RELAY CONTROLLING UVCB-C02, UVCB-C03, UVCB-C09, UVCB-C12, UVCB-C17

NOTE: NEW CONTROL CABLES SHALL BE INSTALLED IN CONDUIT OR EXISTING CONTROL CABLE TRAY SYSTEM.

2 CONTROL CABLE SCHEDULE - C1 SECTOR 03
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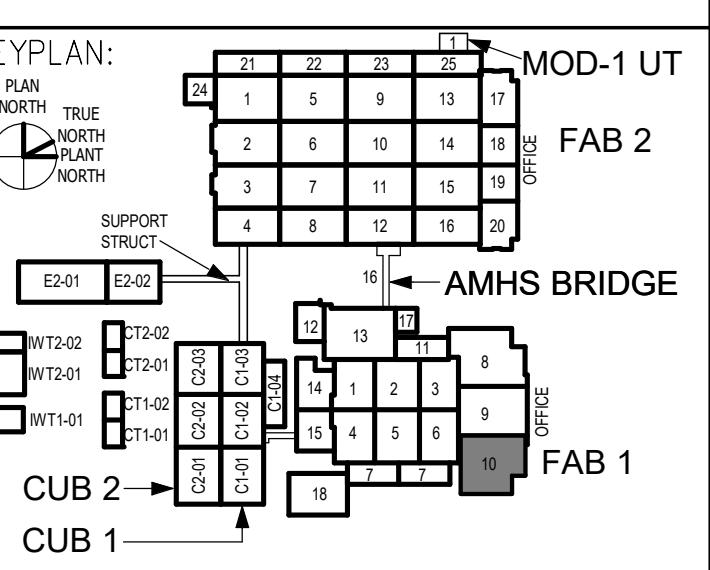
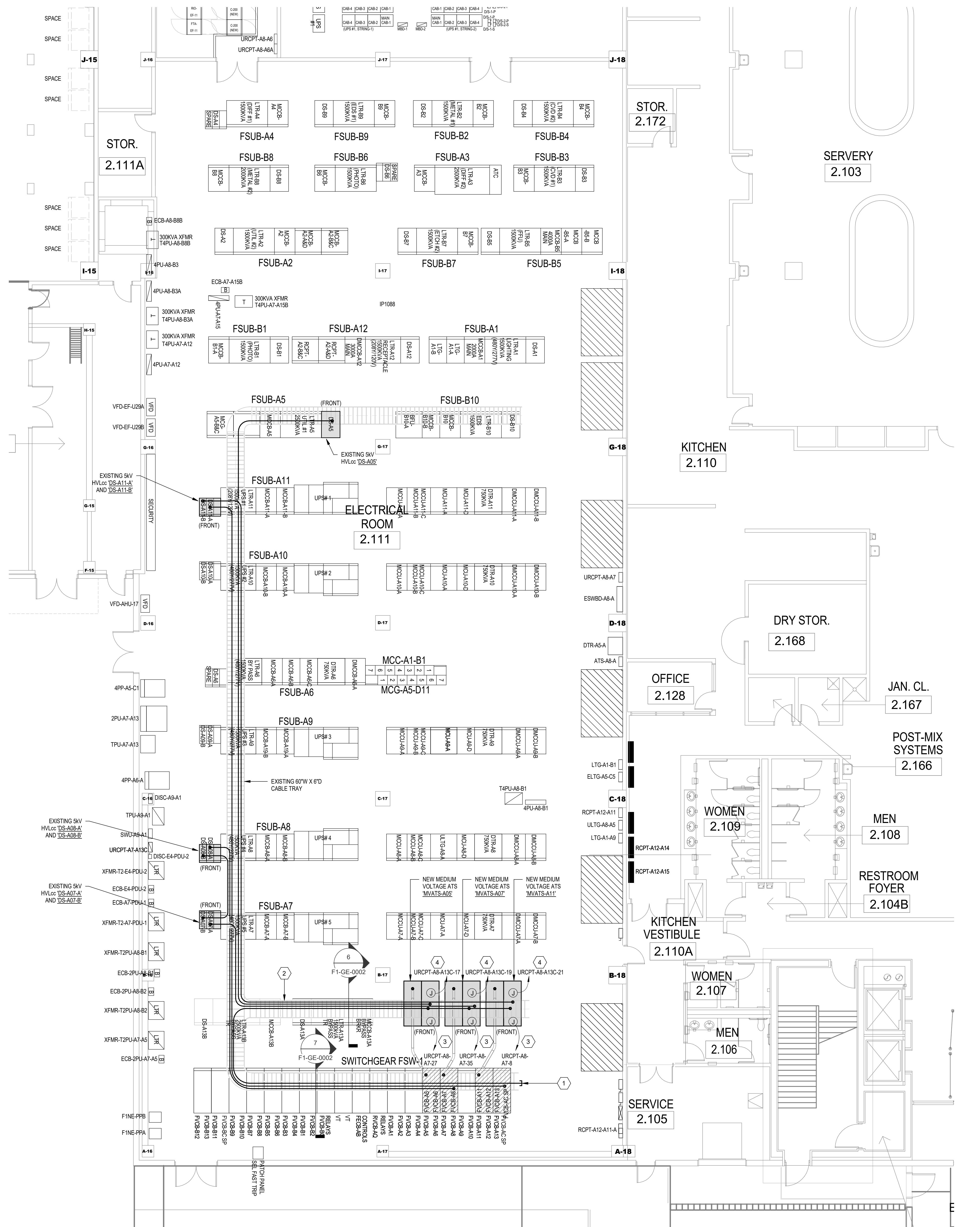
SEAL:



NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:	NEW WORK CONTROL WIRE AND GROUNDING PLAN CUB 1 - FIRST LEVEL - SECTOR 03
DATE:	07/26/21
DRAWN BY:	RO
CHECKED BY:	AL
SCALE:	As indicated
PRJ. NO.:	D3511600
SHEET NO.:	C1-EW-1003



GENERAL NOTES:

1. REFER TO DETAIL 10 ON SHEET F1-GE-0002 FOR PARTICULAR ATS REDUNDANT POWER MODULE DETAIL.

KEYED NOTES:

- EXISTING A' FEEDER CABLES PREVIOUSLY DISCONNECTED IN A PREVIOUS PROJECT, NOW RE-LABELED AS ALSS FEEDER ORIGINATING FROM SWITCHGEAR GSW-2 TO BE EXTENDED AND CONNECTED TO NEW MEDIUM VOLTAGE ATS.
- EXISTING 60W X FD CABLE TRAY TO BE UTILIZED TO ROUTE CONDUITORS TO LOADS LOCATED.
- FURNISH AND INSTALL 120V POWER FOR MVENTS SEL POWER SUPPLY EXTEND 2910 & 4110 END IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING. REFER TO 10F1-GE-0002 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL 120V POWER FOR MVENTS SEL REDUNDANT POWER SUPPLY. EXTEND 2910 & 4110 END IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING. REFER TO 10F1-GE-0002 FOR ADDITIONAL INFORMATION.

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NO	ISSUE	DATE
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B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

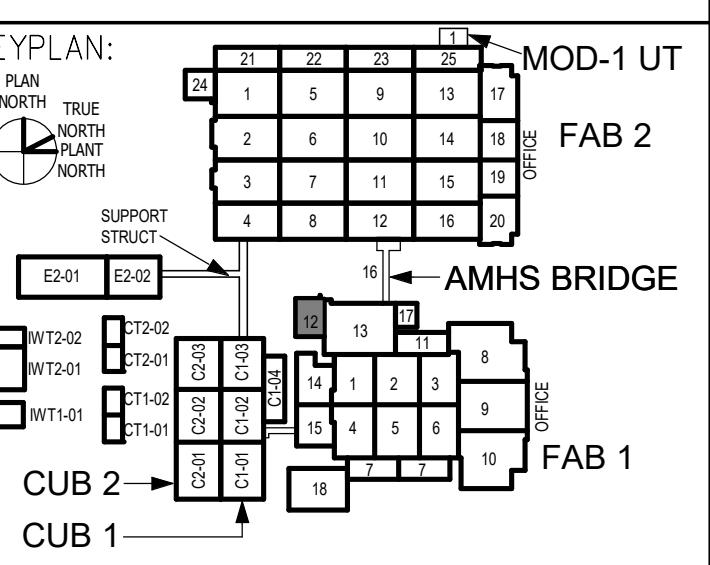
PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
NEW WORK
POWER PLAN
SUBFAB LEVEL
SECTOR 10

DATE: 07/26/21 PRJ. NO.: D3511600
DRAWN BY: RO SHEET NO.:
CHECKED BY: AL
SCALE: 1/8" = 1'-0"

PLOT DATE/TIME: 7/26/2021 1:29:43 PM

SAMSUNG

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SEMICONDUCTOR

GENERAL NOTES:

- REFER TO DETAIL 10 ON SHEET F1-GE-0002 FOR TYPICAL ATS REDUNDANT POWER MODULE DETAIL.

KEYED NOTES:

- NEW MEDIUM VOLTAGE CONDUCTORS INDICATED IN THE CRAWL SPACE SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT. REFER TO ONE-LINE DIAGRAMS FOR MORE INFORMATION.
- EXISTING AIR TERMINAL CHAMBER, MADE AVAILABLE FROM DEMOLITION PHASE, TO BE RE-INSTALLED IN THIS LOCATION.
- EXISTING E FEEDER CABLES, NOW RELABELED AS ESS FEEDER, ORIGINATING FROM SWITCHGEAR GSII-7 TO BE EXTENDED AND CONNECTED TO NEW MEDIUM VOLTAGE ATS'S.
- FURNISH AND INSTALL 120V POWER FOR MVATS SEL POWER SUPPLY. EXTEND 2#10 & 1#10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL LOCATED ON DRAWING. REFER TO 10F1-GE-0002 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL 120V POWER FOR MVATS SEL REDUNDANT POWER SUPPLY. EXTEND 2#10 & 1#10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING. REFER TO 10F1-GE-0002 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL 120V POWER FOR NEW NETWORK SWITCH IN EXISTING PATCH PANEL. EXTEND 2#10 & 1#10 GND IN 3/4" CONDUIT TO ELECTRICAL PANEL INDICATED ON DRAWING.

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SEAL:

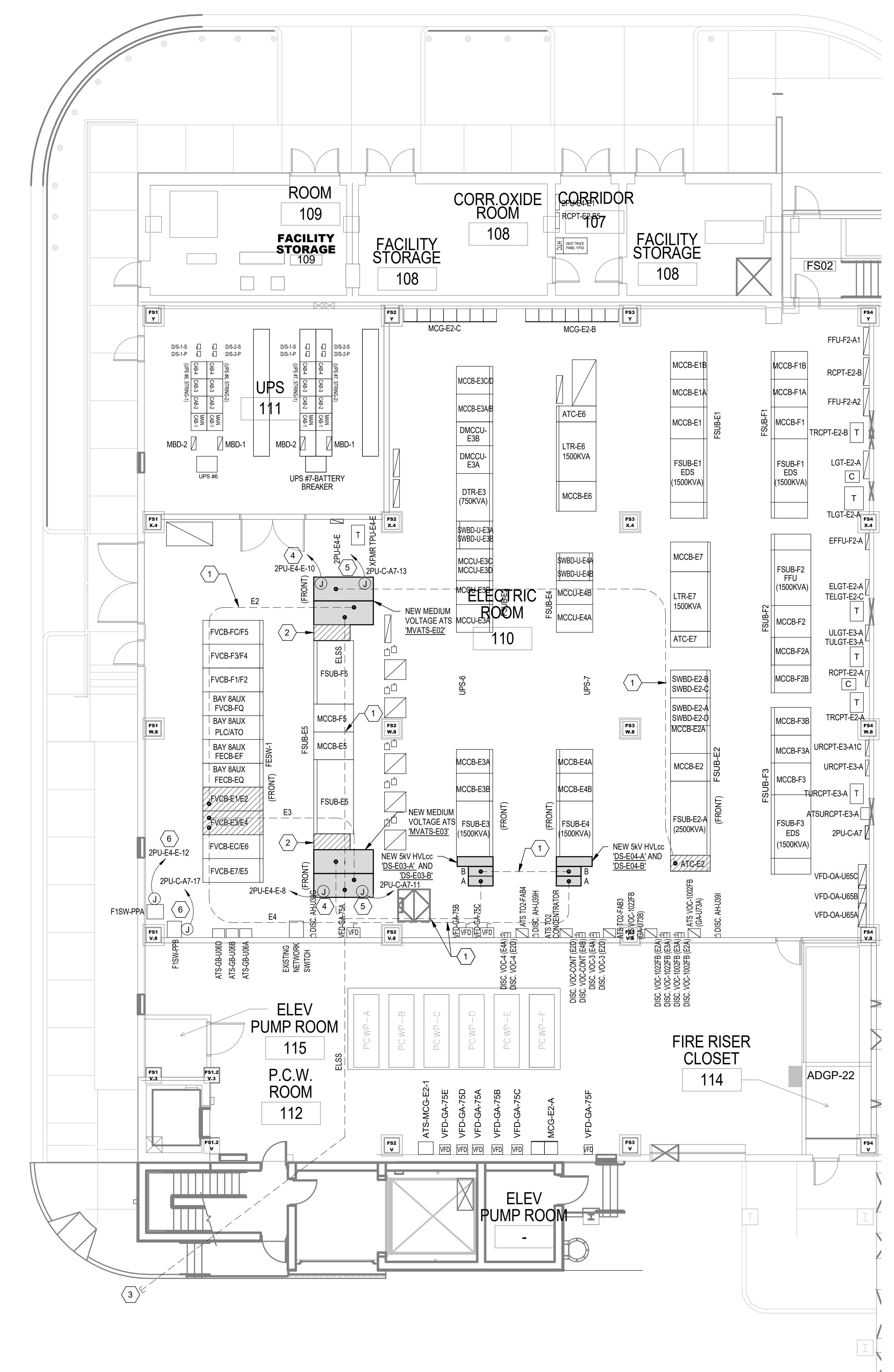


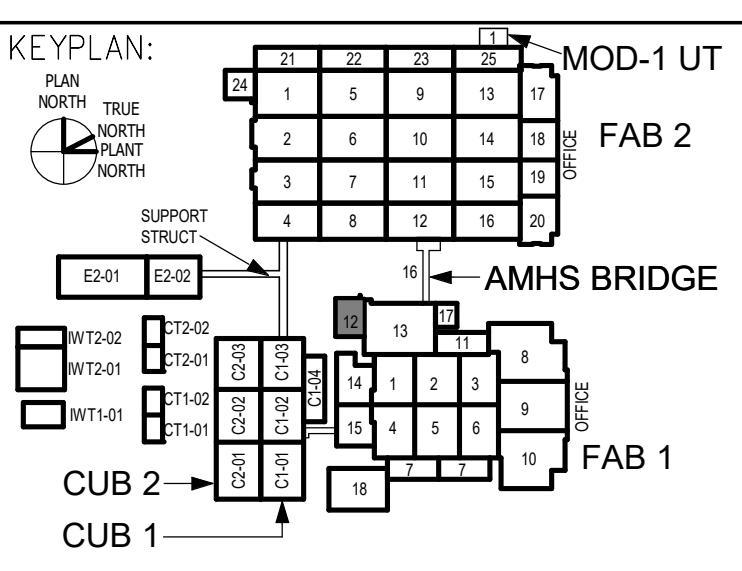
NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE COMPLIANCE PROJECT (FAB-1)
 100% CONSTRUCTION DOCUMENTS

SHEET TITLE:	NEW WORK POWER PLAN SUBFAB LEVEL SECTOR 12
DATE:	07/26/21
DRAWN BY:	RO
CHECKED BY:	AL
SCALE:	1'0" = 1'-0"
PRJ. NO.:	D3511600
SHEET NO.:	F1-EP-1012

1 NEW WORK POWER PLAN - SUBFAB LEVEL - SECTOR 12
 1'0" = 1'-0"



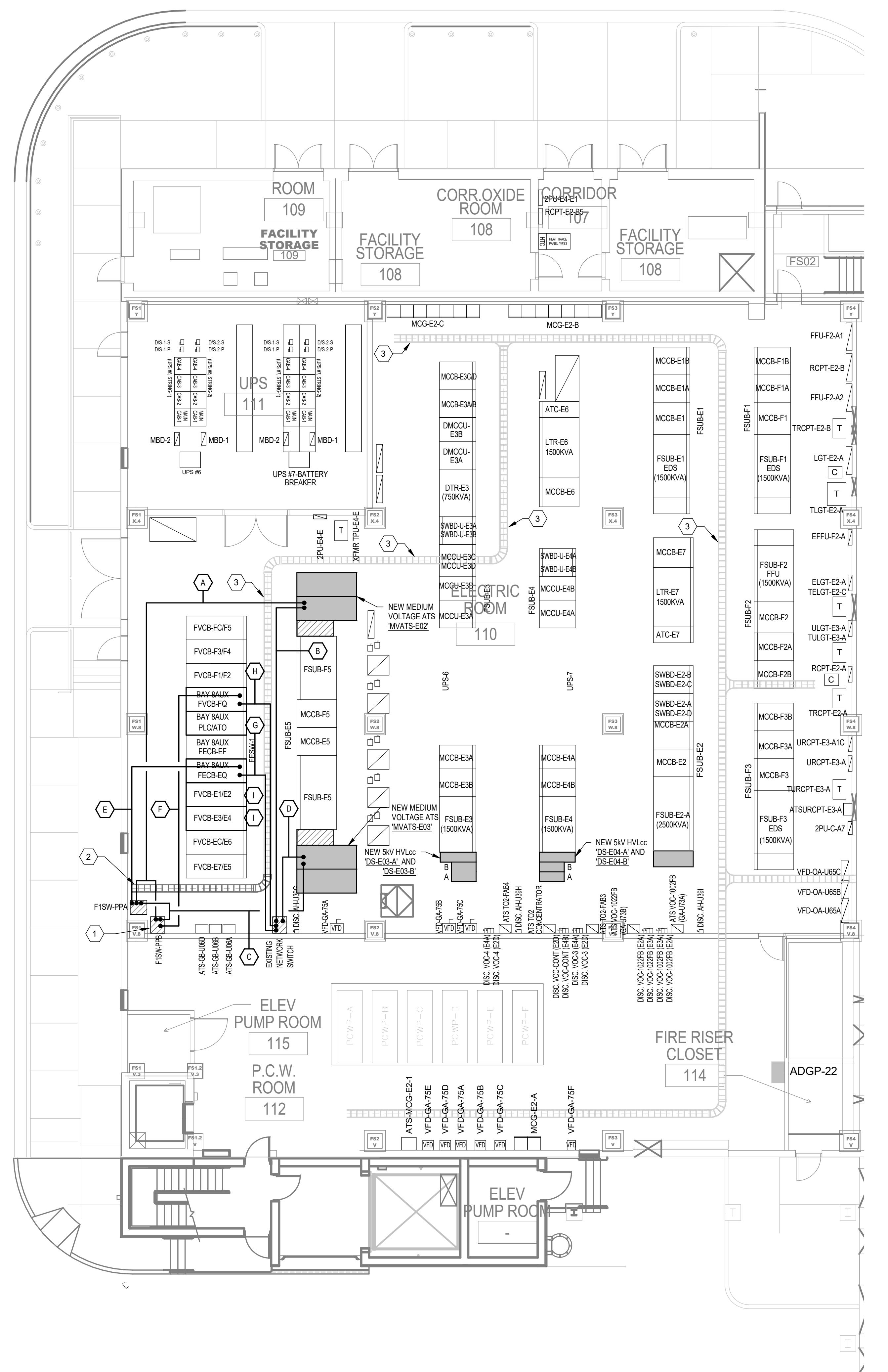


GENERAL NOTES:

1. PROVIDE INTERNAL FIBER OPTIC JUMPER CABLES INSIDE OF EACH PATCH PANEL ENCLOSURE INDICATED THIS SHEET.

KEYED NOTES:

- 1 EXISTING FIBER PATCH PANELS TO REMAIN. REFER TO SCHEDULE THIS SHEET FOR NEW FIBER OPTICS CABLE CONNECTIONS.
- 2 PROVIDE NEW 1/2W X 6'D LADDER CABLE TRAY FOR NEW CONTROL CABLES AND CONNECT TO EXISTING CABLE TRAY AS INDICATED.
- 3 EXISTING CABLE TRAY SYSTEM TO REMAIN.



NO	FROM	TO	CABLE	DESCRIPTION / NOTES
A	MVATS-E02	F1SW-PPA	1 PAIR OF MM F/O PATCH CORD	GENERATOR CONTROLS
		F1SW-PPB	1 PAIR OF MM F/O PATCH CORD	GENERATOR CONTROLS
B	NETWORK SWITCH	MVATS-E02	1 CAT 6 ETHERNET CABLE	POWER MONITORING
C	MVATS-E03	F1SW-PPA	1 PAIR OF MM F/O PATCH CORD	GENERATOR CONTROLS
		F1SW-PPB	1 PAIR OF MM F/O PATCH CORD	GENERATOR CONTROLS
D	NETWORK SWITCH	MVATS-E03	1 CAT 6 ETHERNET CABLE	POWER MONITORING
E	RTAC-X @ FECB-EQ SECTION	F1SW-PPA	1 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
F	RTAC-Y @ FVCB-FQ SECTION	F1SW-PPB	1 PAIR OF OM1 F/O PATCH CORD IN 1'C.	GENERATOR CONTROLS
G	RTAC-X @ FECB-EQ SECTION	NETWORK SWITCH	1 CAT 6 ETHERNET CABLE	POWER MONITORING
H	RTAC-Y @ FVCB-FQ SECTION	NETWORK SWITCH	1 CAT 6 ETHERNET CABLE	POWER MONITORING
I	FVCB-E02 & FVCB-E03 - 751 RELAY (FVCB-FQ)	RTAC-X (FECB-EQ) & RTAC-Y (FVCB-FQ)	1 PAIR ROUTED INTERNALLY TO EACH 751 RELAY CONTROLLING FVCB-E02 & FVCB-E03.	

NOTE: NEW CONTROL CABLING SHALL BE INSTALLED IN CONDUIT OR EXISTING CONTROL CABLE TRAY SYSTEM.

2 CONTROL CABLE SCHEDULE - SUBFAB LEVEL - SECTOR 12

NOT TO SCALE

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SEAL:



NO	ISSUE	DATE
A	75% PROGRESS	07/08/21
B	95% PROGRESS	07/14/21
C	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

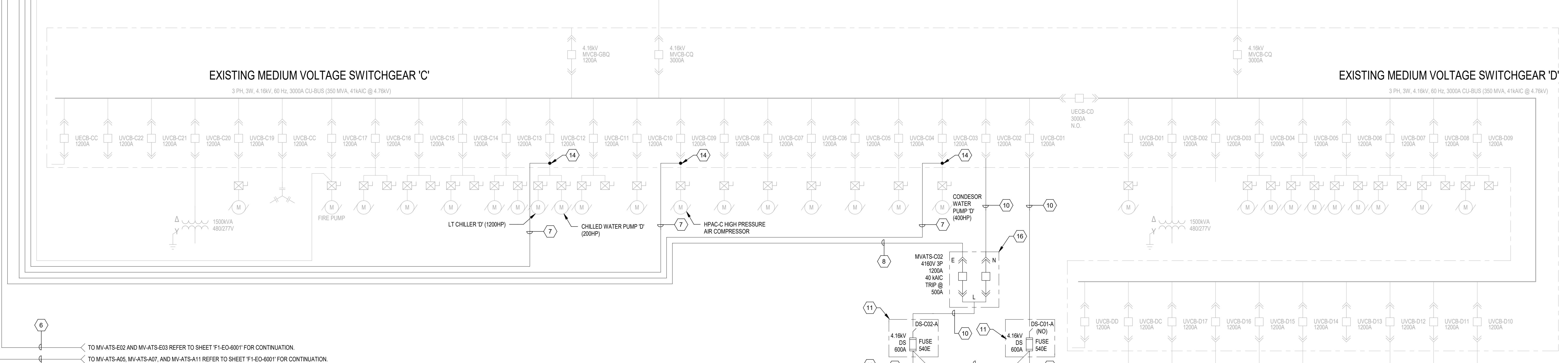
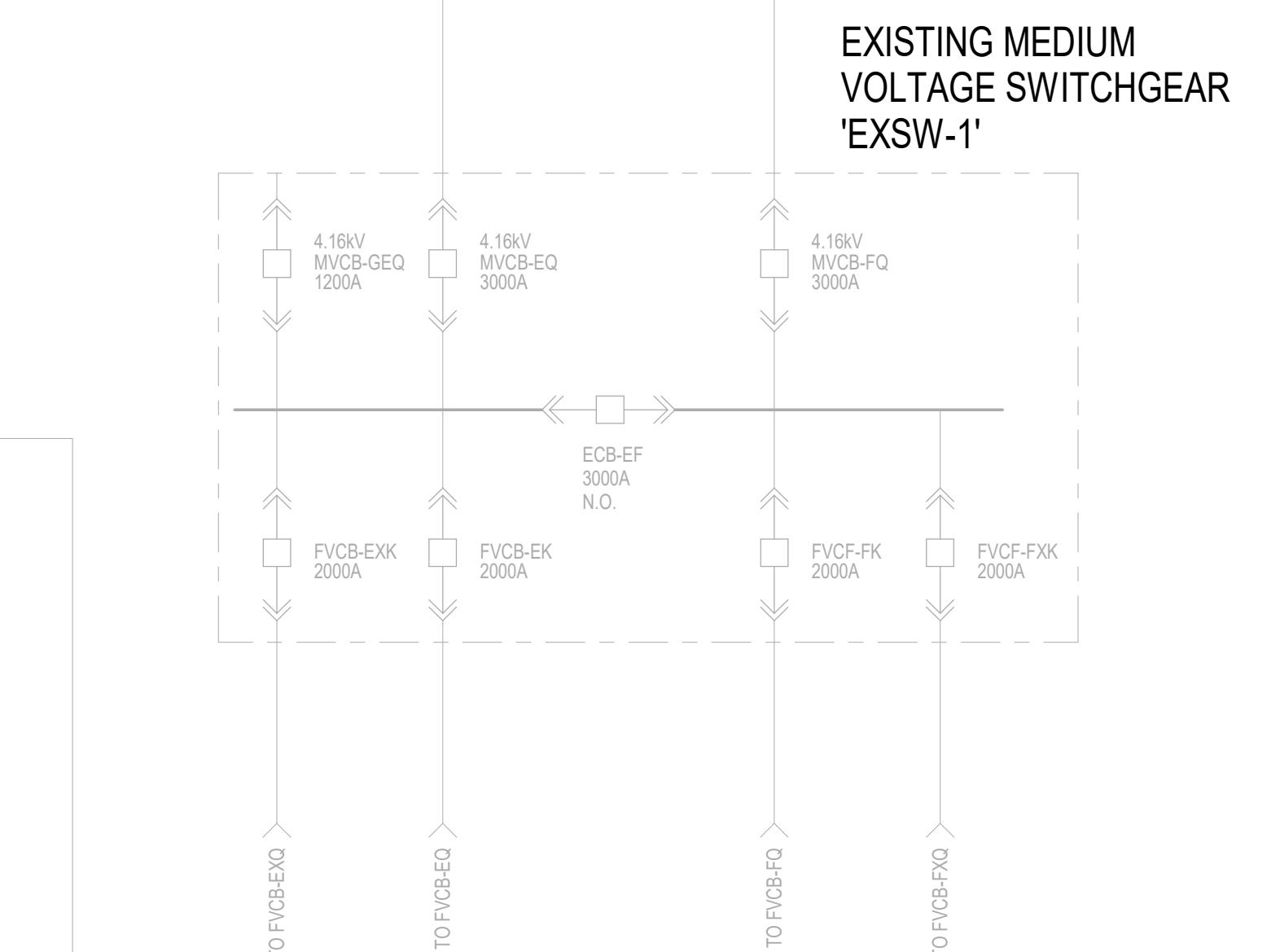
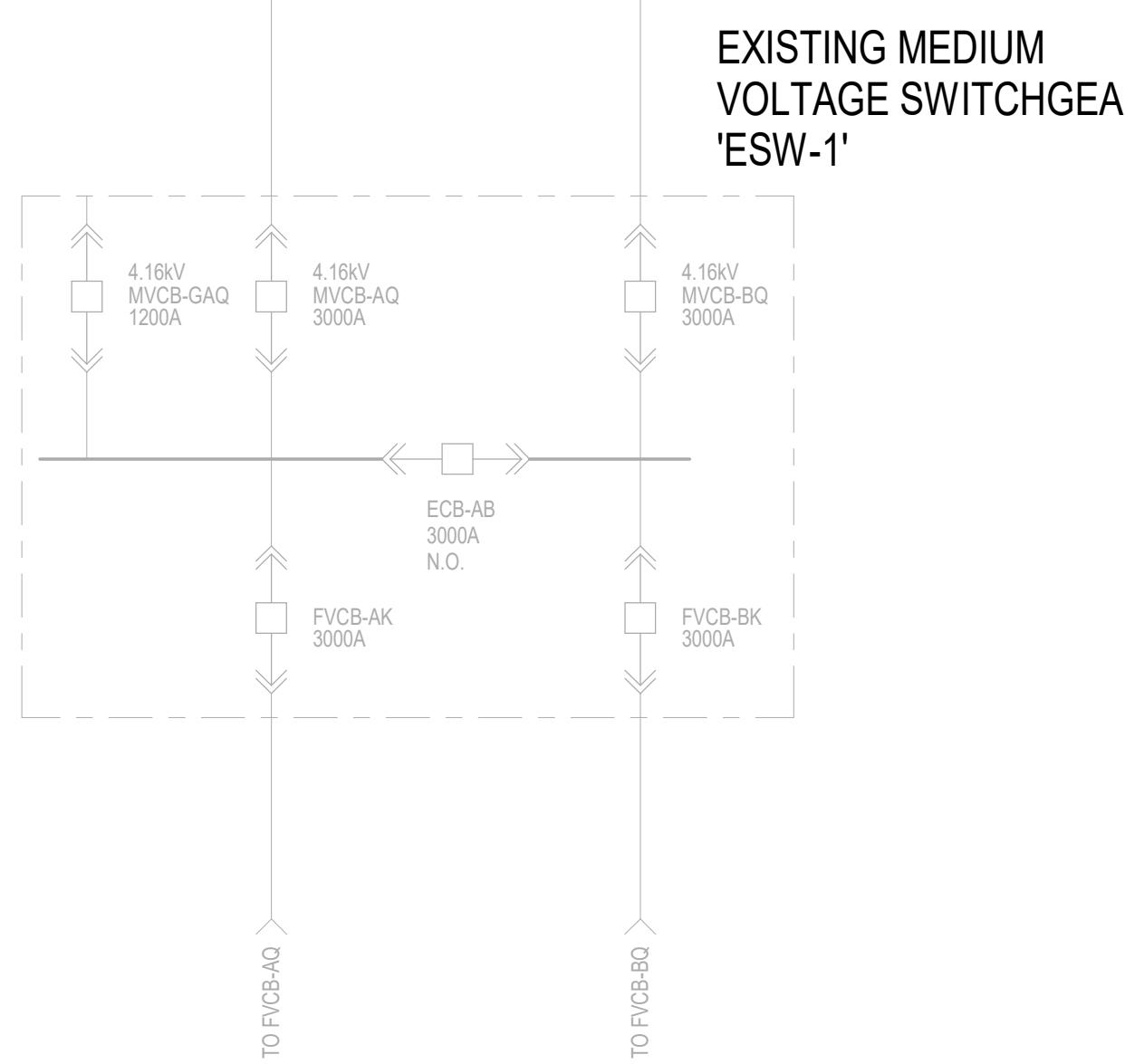
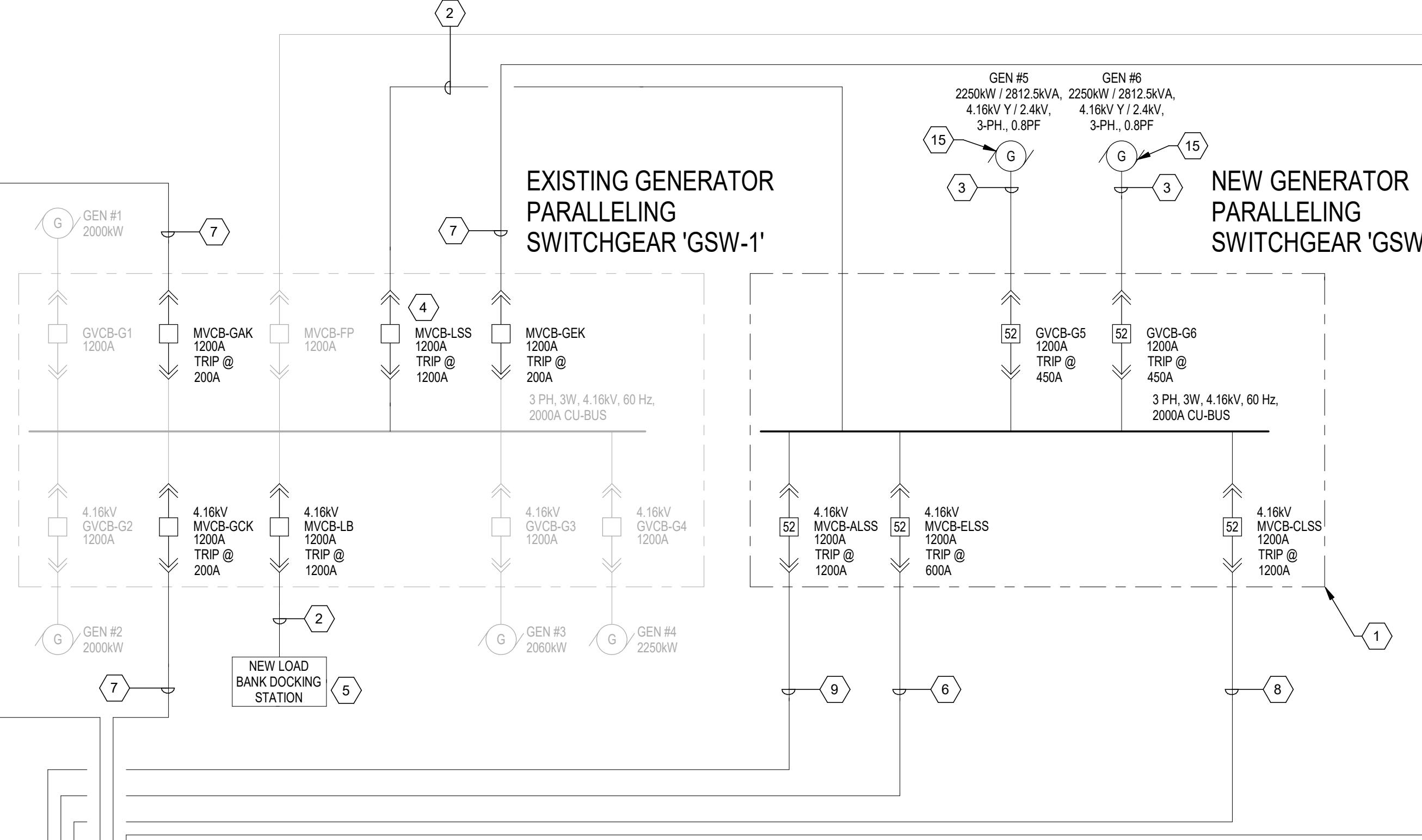
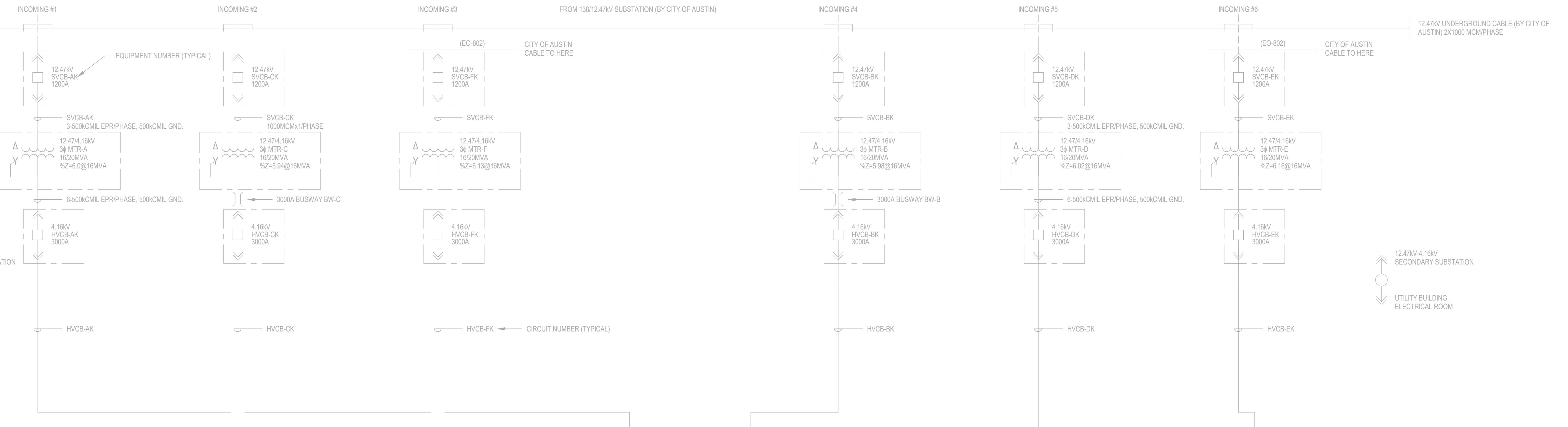
SHEET TITLE:
NEW WORK CONTROL WIRE PLAN
SUBFAB LEVEL - SECTOR 12

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	As indicated		

F1-EW-1012

EMERGENCY ELECTRICAL LOAD ANALYSIS 'GSW-1' & 'GSW-2' (FAB1/CUB1) EMERGENCY LOADS						
LOAD DESCRIPTION	CONNECTED LOAD - KVA	FACTOR	SEE NOTE	KVA	AMPERES	Demand Load
MVCB-GAK FEEDER LOADS (CHILLER & CHV PUMP 'D')	1,400	0.64	1.2	895	124	
MVCB-GCK FEEDER LOADS (HPAC-C COMPRESSOR)	500	0.78	1.2	390	54	
MVCB-GEK FEEDER LOADS (CWP PUMP 'D')	400	0.99	1.2	397	55	
MVCB-ALSS FEEDER LOADS (UPS-1&5 & UTIL-1)	7,000	0.46	1	3,334	463	
MVCB-CLSS FEEDER LOADS (LIGHTING & VENTILATION FANS)	2,500	0.83	1	2,071	267	
MVCB-ELSS FEEDER LOADS (UPS-6&7 & UTIL-FSUB)	5,500	0.36	1	1,950	272	
MVCB-FP (FIRE PUMP)	250	1.00		250	35	
TOTAL N.E.C. DEMAND LOAD X 125%				9,296	1290	
TOTAL N.E.C. DEMAND LOAD X 125% (GENERATION CAPACITY DESIGN (6 GENERATORS TOTAL = 12,810 KW @ 0.8 PF))				11,620	1613	
SPARE CAPACITY				16,013	2222	
				27.4%	4,393	610

NOTES:
 1. PER THE 2020 NEC, ARTICLE 220.87 (1), (2) & (3).
 2. PER THE 2020 NEC, ARTICLE 702, OPTIONAL STANDBY LOAD IS EQUIPPED WITH A LOAD SHED CONTROL SCHEME.



1 FAB1 MASTER SINGLE LINE DIAGRAM
N.T.S.

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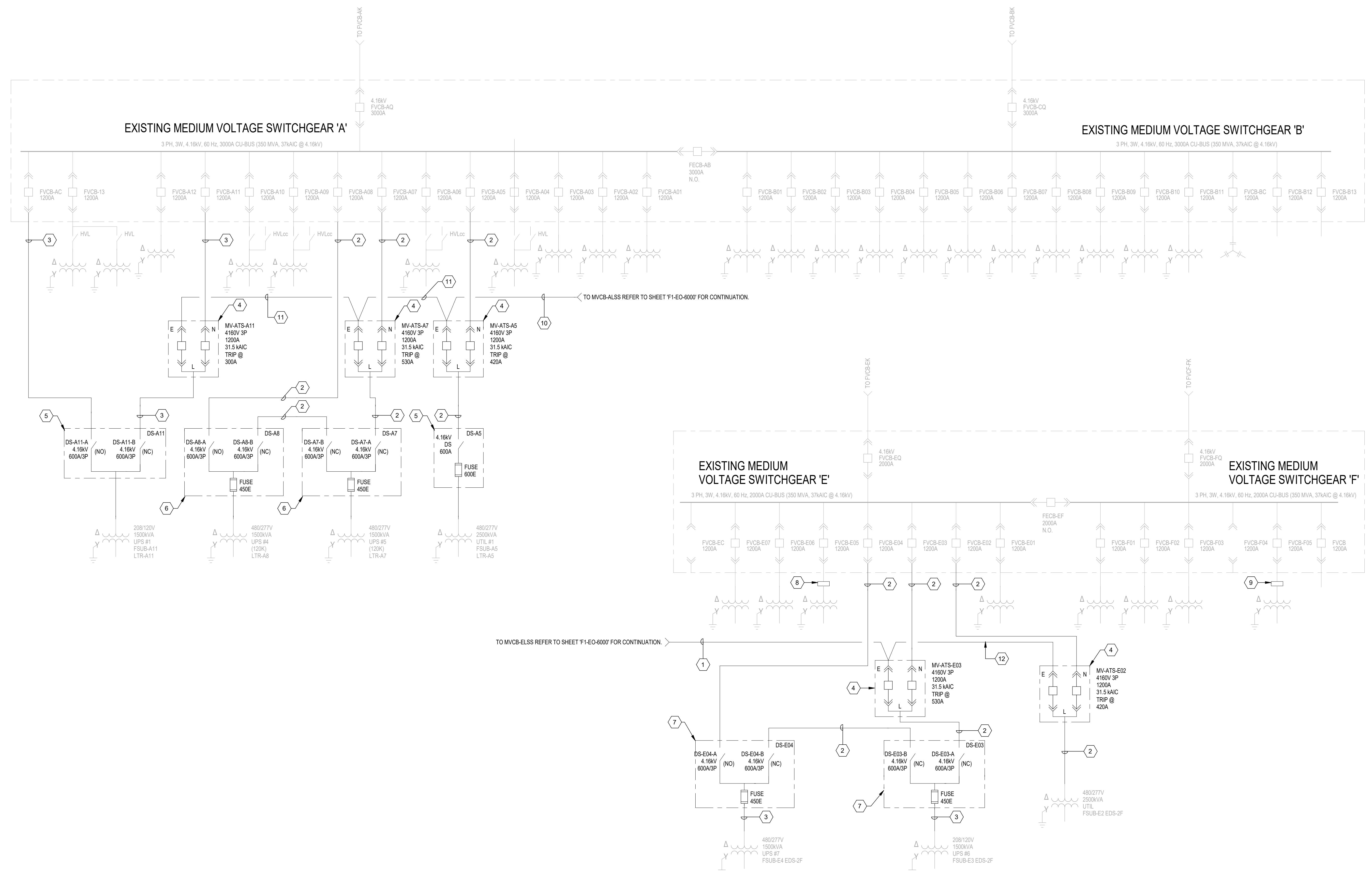
NO. ISSUE DATE
 A 60% PROGRESS 06/11/21
 B 75% PROGRESS 07/08/21
 C 95% PROGRESS 07/14/21
 D 100% CONSTRUCTION DOCUMENTS 07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE COMPLIANCE PROJECT (FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
MASTER ELECTRICAL ONE-LINE DIAGRAM NEW WORK

DATE: 07/26/21 PRJ. NO.: D3511600
 DRAWN BY: RO SHEET NO.:
 CHECKED BY: AL
 SCALE: N.T.S.

PLOT DATE/TIME: 7/22/2021 9:48:22 PM



GENERAL NOTES:

- 1 ALL NEW WORK SHOWN BOLD.
- 2 ALL EQUIPMENT EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- 3 PROVIDE ALL 120V POWER CONNECTION TO SWITCHGEAR, UNIT SUBSTATIONS, MOTOR CONTROL CENTERS AND POWER, CONTROL AND MONITORING BETWEEN ALL EQUIPMENT SECTIONS AND DEVICES.
- 4 CONTRACTOR SHALL PERFORM FIELD VERIFICATION FOR CONNECTION POINT AND PHYSICAL SIZE OF ENCLOSURE BEFORE INSTALLATION.
- 5 EQUIPMENT WILL BE PURCHASED BY SAS.

KEYED NOTES:

- 1 DISCONNECT 1 SET OF EXISTING FSETS. 3-750KCMIL, 5KV, EPR CONDUCTORS AND RE-PURPOSE CABLES. REROUTE FEEDER AND RECONNECT AS INDICATED. SPLICE CONDUCTORS AS REQUIRED.
- 2 FURNISH AND INSTALL 3-300KCMIL, 5KV, EPR, TYPE MV-105, 133% & 1410 (600V GND, N) 4" RGS CONDUIT.
- 3 FURNISH AND INSTALL 3440, 5KV, EPR, TYPE MV-105, 133% & 1/2 (600V GND, N) 3" RGS CONDUIT.
- 4 INSTALL NEW 100KA MEDIUM VOLTAGE AUTOMATIC TRANSFER SWITCH (MVATS) PROVIDED BY SAS.
- 5 EXISTING HVLC DISCONNECT SWITCH TO REMAIN.
- 6 EXISTING DUPLEX HVLC NON-FUSED DISCONNECT SWITCH TO BE MODIFIED / RETROFITTED WITH (3) NEW 450A FUSES BY THE MANUFACTURER (SCHEIDER ELECTRIC).
- 7 INSTALL NEW DUPLEX HVLC FUSED DISCONNECT SWITCH PROVIDED BY SAS.
- 8 REINSTALL AIR TERMINAL CHAMBER (ATC) THAT WAS REMOVED / SALVAGED FROM SUBSTATION TSUB-E3.
- 9 REINSTALL AIR TERMINAL CHAMBER (ATC) THAT WAS REMOVED / SALVAGED FROM SUBSTATION TSUB-E4.
- 10 EXISTING / RE-PURPOSED 2 SETS 3-750KCMIL, 5KV, CONDUCTORS IN EXISTING CABLE TRAY SYSTEM. REROUTE CONDUCTORS AND RECONNECT AS INDICATED. SPLICE CONDUCTORS AS REQUIRED.
- 11 FURNISH AND INSTALL 2 SETS 3-750KCMIL, 5KV, EPR, TYPE MV-105, 133% & 1-250KCMIL GND, IN EACH OF (2) 4" RGS CONDUIT.
- 12 FURNISH AND INSTALL 3-750KCMIL, 5KV, EPR, TYPE MV-105, 133% & 1-250KCMIL GND, IN 4" RGS CONDUIT.

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SEAL:



NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

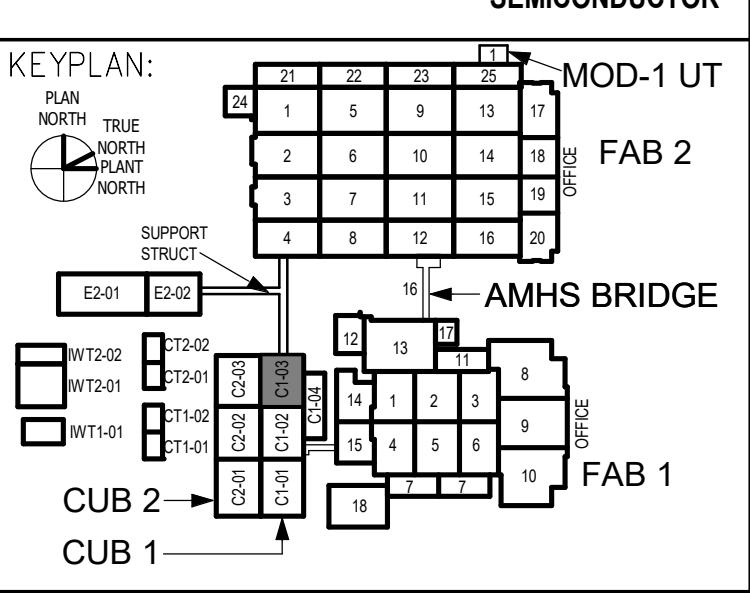
MASTER ELECTRICAL
ONE-LINE DIAGRAM
NEW WORK

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	RO	SHEET NO.:	
CHECKED BY:	AL		
SCALE:	N.T.S.		

PLOT DATE/TIME: 7/22/2021 9:48:28 PM

SAMSUNG

AUSTIN SEMICONDUCTOR



KEYED NOTES:

- 1 NEW 5'0" X 5'0" PNEUMATIC OPERATED DAMPER - NORMALLY CLOSED. AIR TO CLOSE. INTERLOCKED TO OPEN WHEN GENERATORS START. FAIL SAFE: FAIL OPEN UPON LOSS OF AIR AND FAIL CLOSE UPON LOSS OF ELECTRICAL POWER. (TYP. 18, NEW).
- 2 REMOVE EXISTING INTERIOR PANEL TO EXPOSE EXISTING AIR INTAKE. REF: ARCHITECTURAL DRAWINGS.
- 3 (2) 30" WIDE X 15' HIGH OVERALL LOUVERED AIR INTAKES. REF: MECHANICAL SCHEDULE AND ARCHITECTURE DRAWINGS AND SPECIFICATIONS FOR REPLACEMENT OF LOUVERS.
- 4 EXISTING 5'0" X 5'0" PNEUMATIC OPERATED DAMPER - NORMALLY CLOSED. AIR TO CLOSE. INTERLOCKED TO OPEN WHEN GENERATORS START. FAIL SAFE: FAIL OPEN UPON LOSS OF AIR AND FAIL CLOSE UPON LOSS OF ELECTRICAL POWER. (TYP. 18, EXISTING).
- 5 INSULATE INDOOR PORTION OF EXISTING EXHAUST PIPES. DO NOT INSULATE FLEXIBLE CONNECTORS. (TYP. 4 EXISTING GENERATORS).
- 6 EXISTING EXHAUST FAN DUCTS (TYP. 3).
- 7 PROPOSED IN-PIPE FOR CONNECTING TO EXISTING EXHAUST DUCT. CONNECT NEW DUCTING BRANCH TUBING WITH EXISTING ISOLATION VALVE.
- 8 72" X 48" EXHAUST DUCT WITH 1/2" STAINLESS STEEL INLET SCREEN IN REMOVABLE FRAME AND WITH ISOLATION VALVE. ALIGN NEW DUCT BOD ELEVATION THROUGH ROOF. ALIGN NEW DUCT BOD ELEVATION WITH EXISTING DUCT BOD ELEVATION (TYP. 3, NEW).
- 9 EXISTING FUEL DAY TANK. COORDINATE FIRE PROTECTION FOR NECESSARY MODIFICATIONS OR ADDITIONS TO EXISTING FIRE PROTECTION SYSTEMS. PROVIDE NEW SPRINKLERS UNDER NEW DUCTWORK TO MEET FP COVERAGE REQUIREMENTS. (TYP. 3 NEW DUCTS).
- 10 COORDINATE FIRE PROTECTION FOR NECESSARY MODIFICATIONS OR ADDITIONS TO EXISTING FIRE PROTECTION SYSTEMS. PROVIDE NEW SPRINKLERS UNDER NEW DUCTWORK TO MEET FP COVERAGE REQUIREMENTS. (TYP. 3 NEW DUCTS).

GENERAL NOTES:

- A REFER TO F1-GM-0001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- C CONTRACTOR ENGINEERED SUPPORT SYSTEMS. ALL NEW PIPING AND MODIFIED EXISTING PIPING SHALL BE CONTRACTOR ENGINEERED PIPE LAYOUT AND SUPPORT SYSTEMS. PIPE STRESS AND SUPPORT ANALYSIS ARE DELEGATED TO THE CONTRACTOR'S ENGINEER, WHO SHALL BE A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF TEXAS AND CAPABLE OF PROVIDING DOCUMENTATION OF THE RESULTING DESIGN AND DETAILS BEARING THEIR PROFESSIONAL ENGINEERING SEAL. MODIFYING EXISTING PIPING INCLUDES CONNECTING NEW PIPING AND/OR ADDING INSULATION, WHICH SHALL BE EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.
- D GENERATOR, REMOTE RADIATOR, GENERATOR EXHAUST FLEXIBLE CONNECTORS, HARD WYE, SILENCER, AND RAIN CAP OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).
- E EXISTING FUEL OIL STORAGE AND TRANSFER SYSTEM IS OUTSIDE THE SCOPE OF THIS PROJECT.

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SEAL:

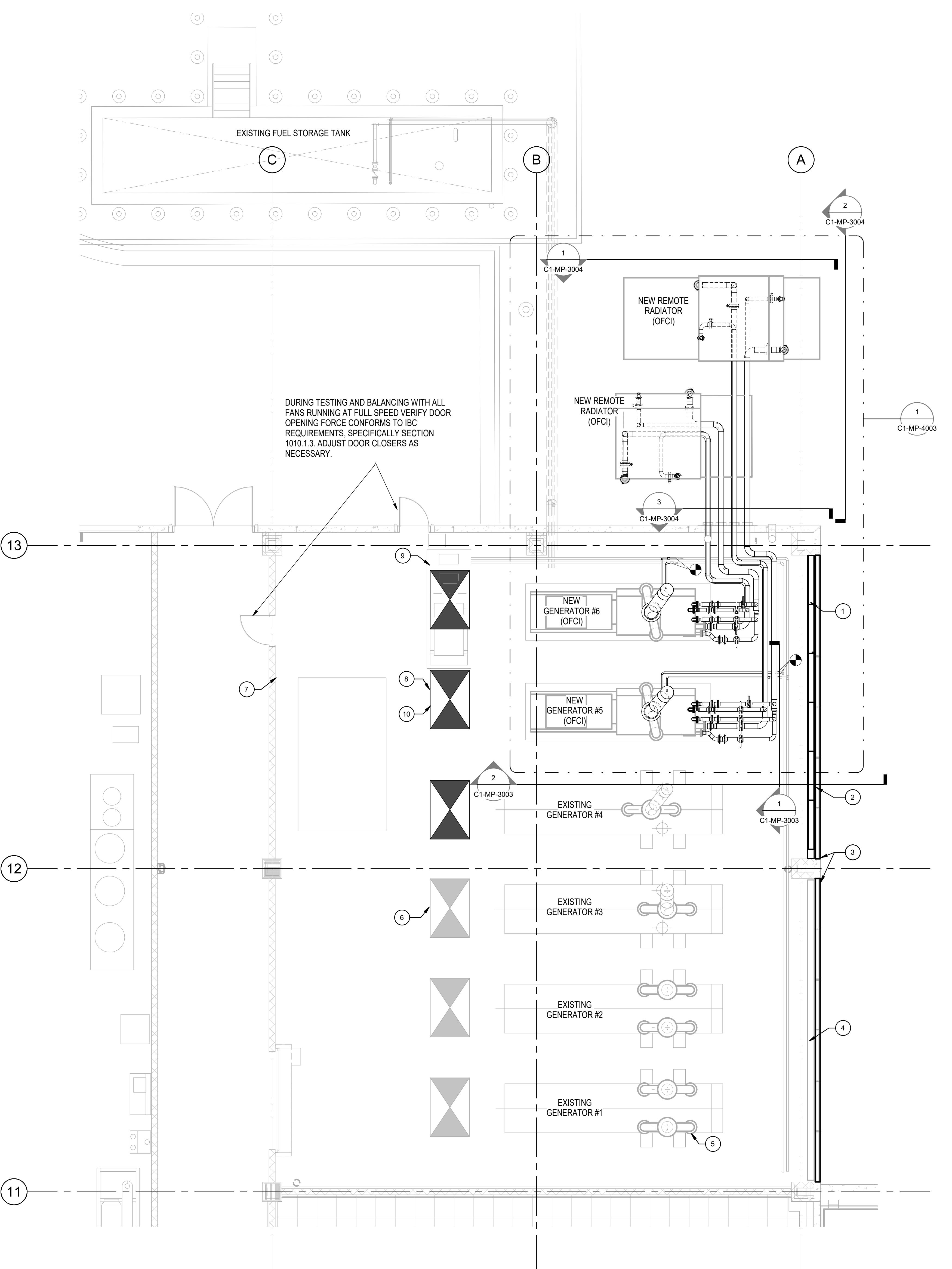


NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
MECHANICAL
PLAN
FIRST LEVEL
SECTOR 3

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	DMERRICK	SHEET NO.:	
CHECKED BY:	W.SODD		
SCALE:	3/16" = 1'-0"		



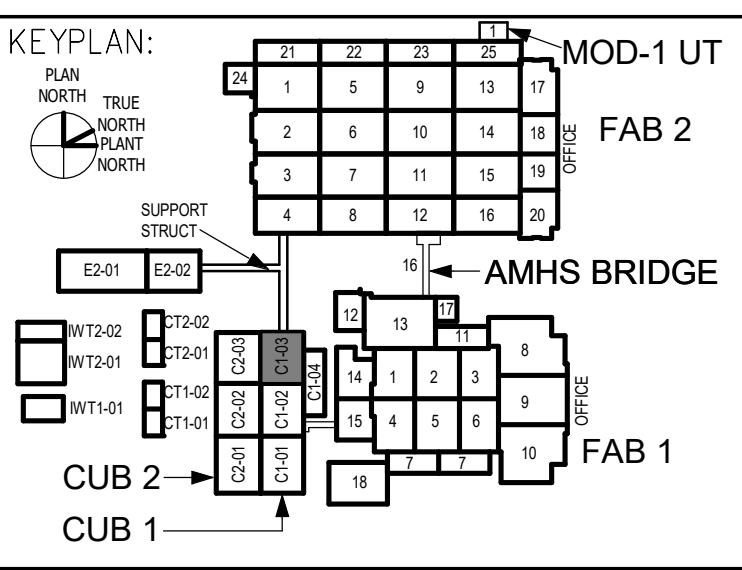
1 CUB 1 GENERATOR ROOM - FIRST LEVEL

SAMSUNG

AUSTIN
SEMICONDUCTOR

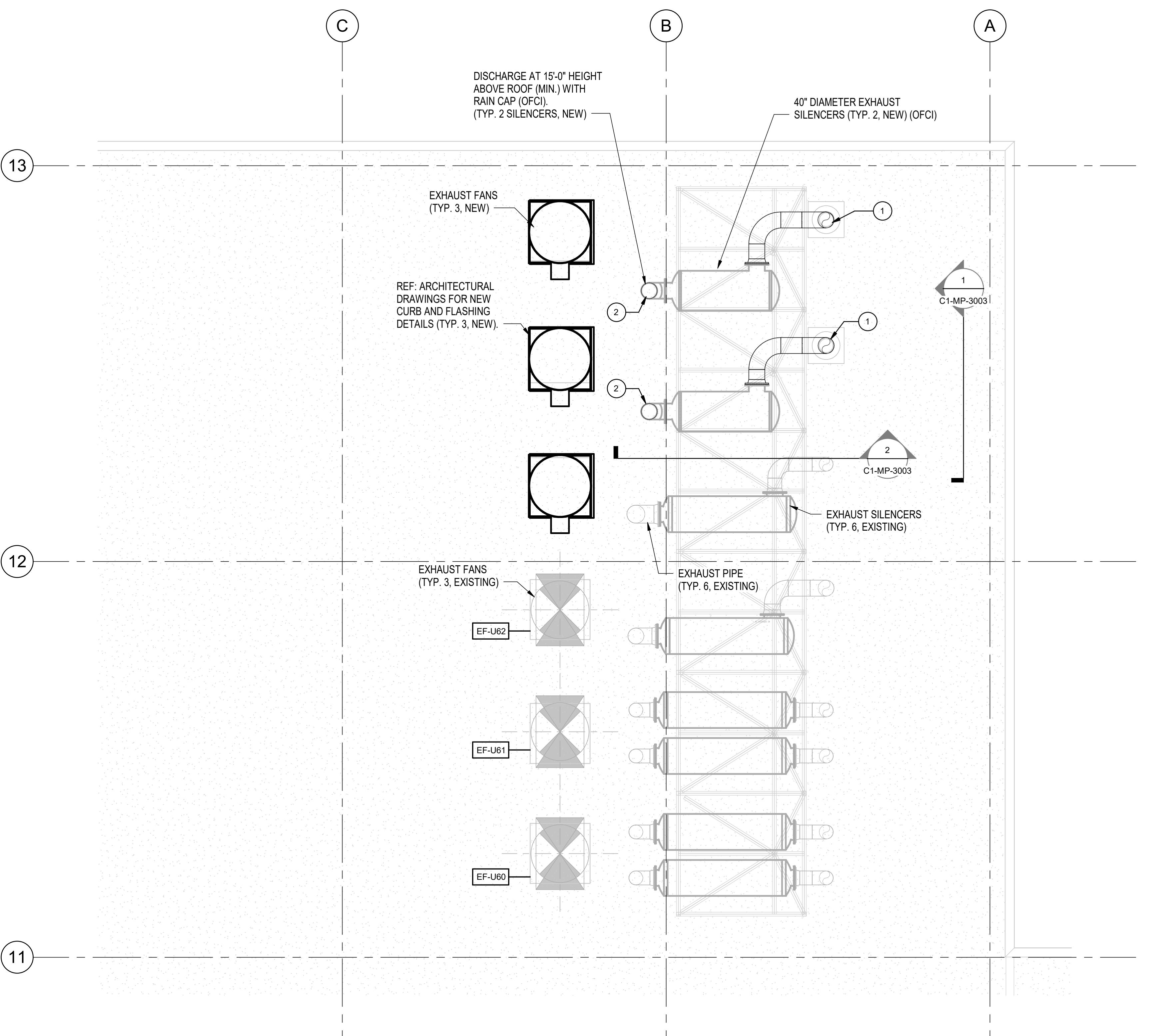
KEYED NOTES:

- 1 16" EXHAUST PIPE, UP THROUGH ROOF (TYP. 2 GENS), REF: MECHANICAL SPECIFICATIONS AS WELL AS ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ROOF PENETRATION DETAILS.
- 2 16" EXHAUST PIPE, DISCHARGE TO ATMOSPHERE.



GENERAL NOTES:

- A. GENERATOR, REMOTE RADIATOR, GENERATOR EXHAUST FLEXIBLE CONNECTORS, HARD WYE, SILENCER, AND RAIN CAP OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).
- B. NEW EXHAUST FANS SHALL BE INTERLOCKED WITH NEW GENERATORS.
- C. CONTRACTOR ENGINEERED SUPPORT SYSTEMS. ALL NEW PIPING AND MODIFIED EXISTING PIPING SHALL BE CONTRACTOR ENGINEERED PIPE LAYOUT AND SUPPORT SYSTEMS. PIPE STRESS AND SUPPORT ANALYSIS ARE DELEGATED TO THE CONTRACTOR'S ENGINEER, WHO SHALL BE A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF TEXAS AND CAPABLE OF PROVIDING DOCUMENTATION OF THE RESULTING DESIGN AND DETAILS BEARING THEIR PROFESSIONAL ENGINEERING SEAL. MODIFYING EXISTING PIPING INCLUDES CONSTRUCTION OF NEW PIPE AND/OR ADDING INSULATION, WHICH SHALL BE EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.
- D. PAINT OUTDOOR, UNINSULATED PORTION OF GENERATOR EXHAUST PIPE FOR CORROSION RESISTANCE WITH HIGH TEMPERATURE PAINT.



1 CUB 1 GENERATOR ROOM - ROOF LEVEL

3/16" = 1'-0"

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C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
MECHANICAL
PLAN
ROOF LEVEL
SECTOR 3

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	DMERRICK	SHEET NO.:	
CHECKED BY:	W.SODD		
SCALE:	3/16" = 1'-0"		

C1-MP-2003

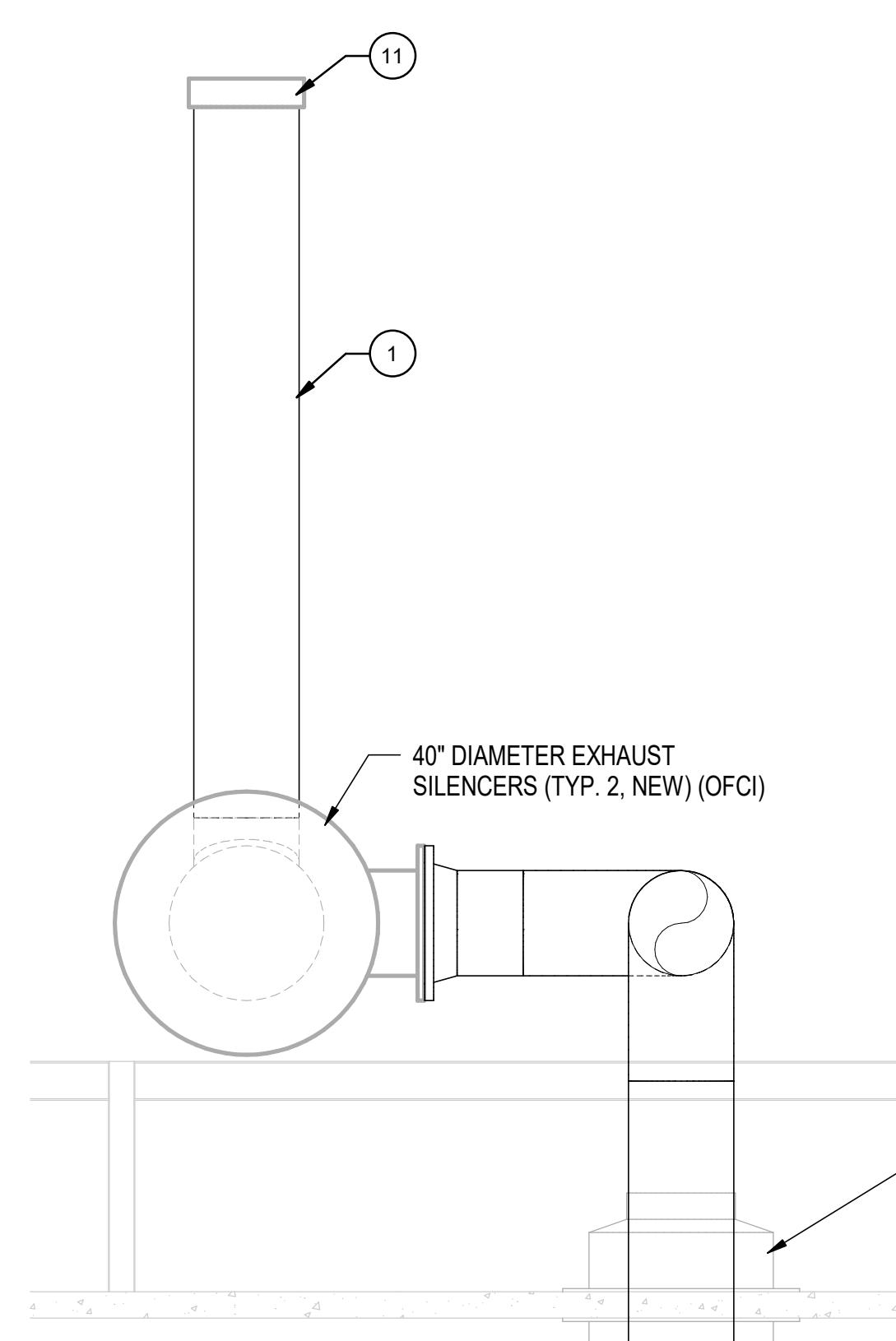
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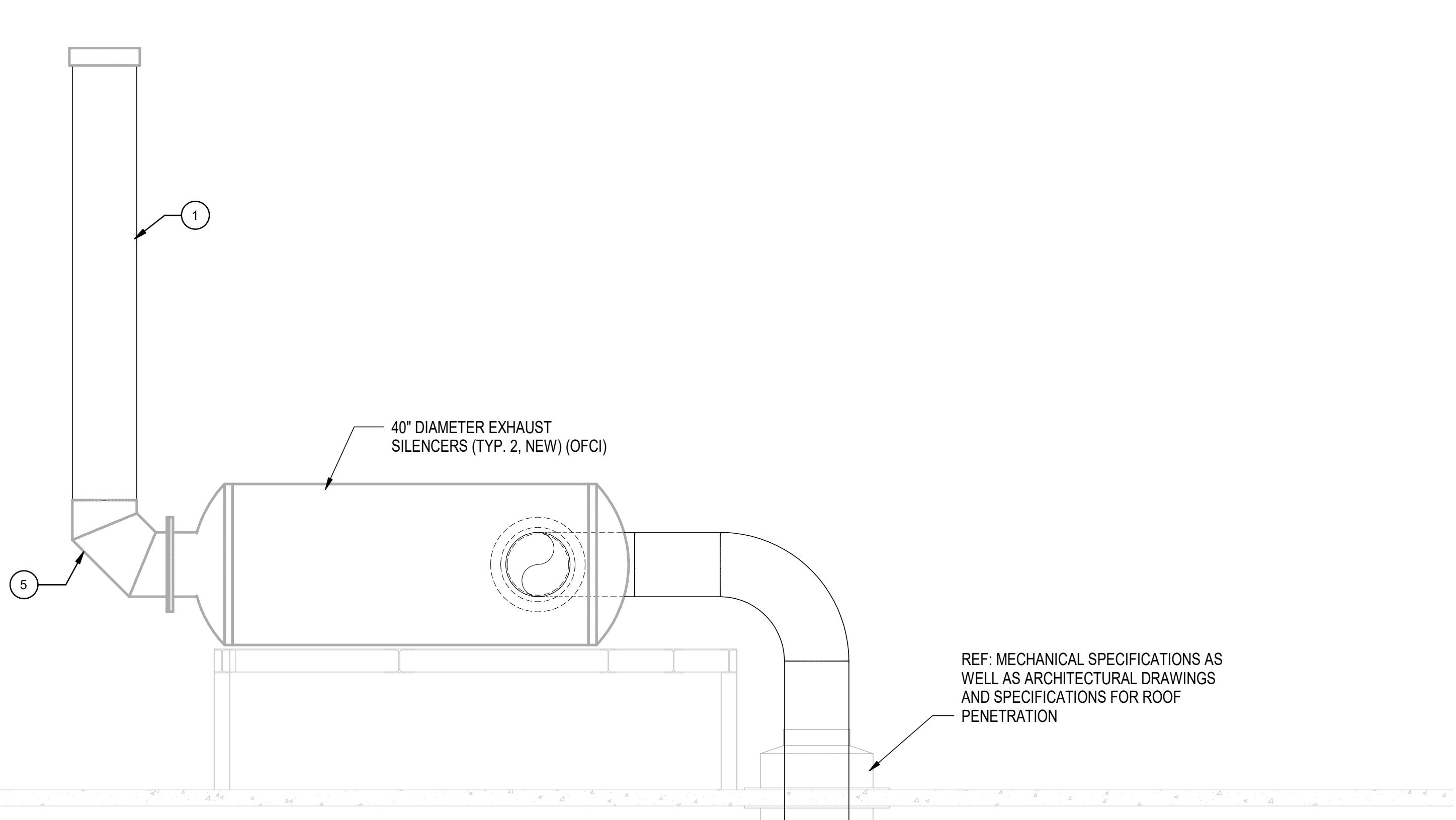
- 1 16" EXHAUST PIPE, DISCHARGE TO ATMOSPHERE.
- 2 10" X 10" X 16" HARD WYE (OFC).
- 3 4" COOLANT LINE.
- 4 6" COOLANT LINE.
- 5 16" MITERED ELBOW (OFC).
- 6 (2) 10" FLEXIBLE CONNECTORS AT GENERATOR EXHAUST PIPES (OFC).
- 7 EXISTING FUEL OIL LINES, SUPPLY AND RETURN.
- 8 BUTTERFLY VALVE.
- 9 NEW HOUSEKEEPING PAD. REF: STRUCTURAL DRAWINGS.
- 10 COORDINATE WITH GENERATOR MANUFACTURER FOR THE RECOMMENDED ELBOW FITTINGS TO LOWER THE ELEVATION OF THE EXHAUST CONNECTIONS SUITABLY BELOW THE ELEVATION OF THE REMOTE RADIATOR EXPANSION TANKS. (TYP. 3 PER GENERATOR).
- 11 16" RAIL CAP (OFC).
- 12 FLEXIBLE CONNECTORS AT GENERATOR COOLANT PIPES (TYP. 5 PER GENERATOR).
- 13 EXISTING PLUG VALVES.
- 14 CHECK VALVE IN FUEL OIL RETURN.
- 15 CHECK VALVE IN FUEL OIL RETURN.

GENERAL NOTES:

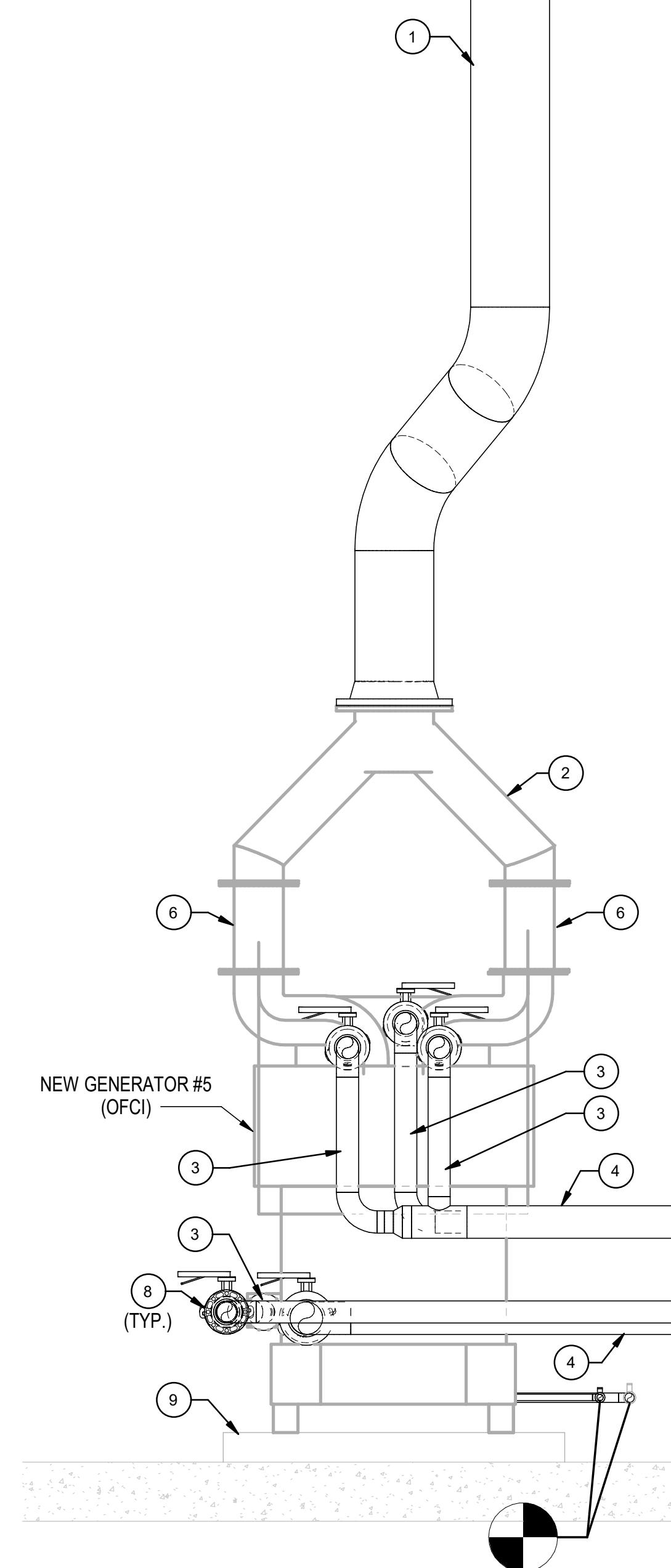
- A. REFER TO F1-GM-0001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- C. CONTRACTOR ENGINEERED SUPPORT SYSTEMS. ALL NEW PIPING AND MODIFIED EXISTING PIPING SHALL BE CONTRACTOR ENGINEERED PIPE LAYOUT AND SUPPORT SYSTEMS. PIPE STRESS AND SUPPORT ANALYSIS ARE DELEGATED TO THE CONTRACTOR'S ENGINEER, WHO SHALL BE A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF TEXAS AND CAPABLE OF PROVIDING DOCUMENTATION OF THE RESULTING DESIGN AND DETAILS BEARING THEIR PROFESSIONAL ENGINEERING SEAL. MODIFYING EXISTING PIPING INCLUDES CONNECTING NEW PIPING AND/OR ADDING INSULATION, WHICH SHALL BE EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.
- D. PAINT OUTDOOR, UNINSULATED PORTION OF GENERATOR EXHAUST PIPE FOR CORROSION RESISTANCE WITH HIGH TEMPERATURE PAINT.



REF: MECHANICAL SPECIFICATIONS AS WELL AS ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ROOF PENETRATION

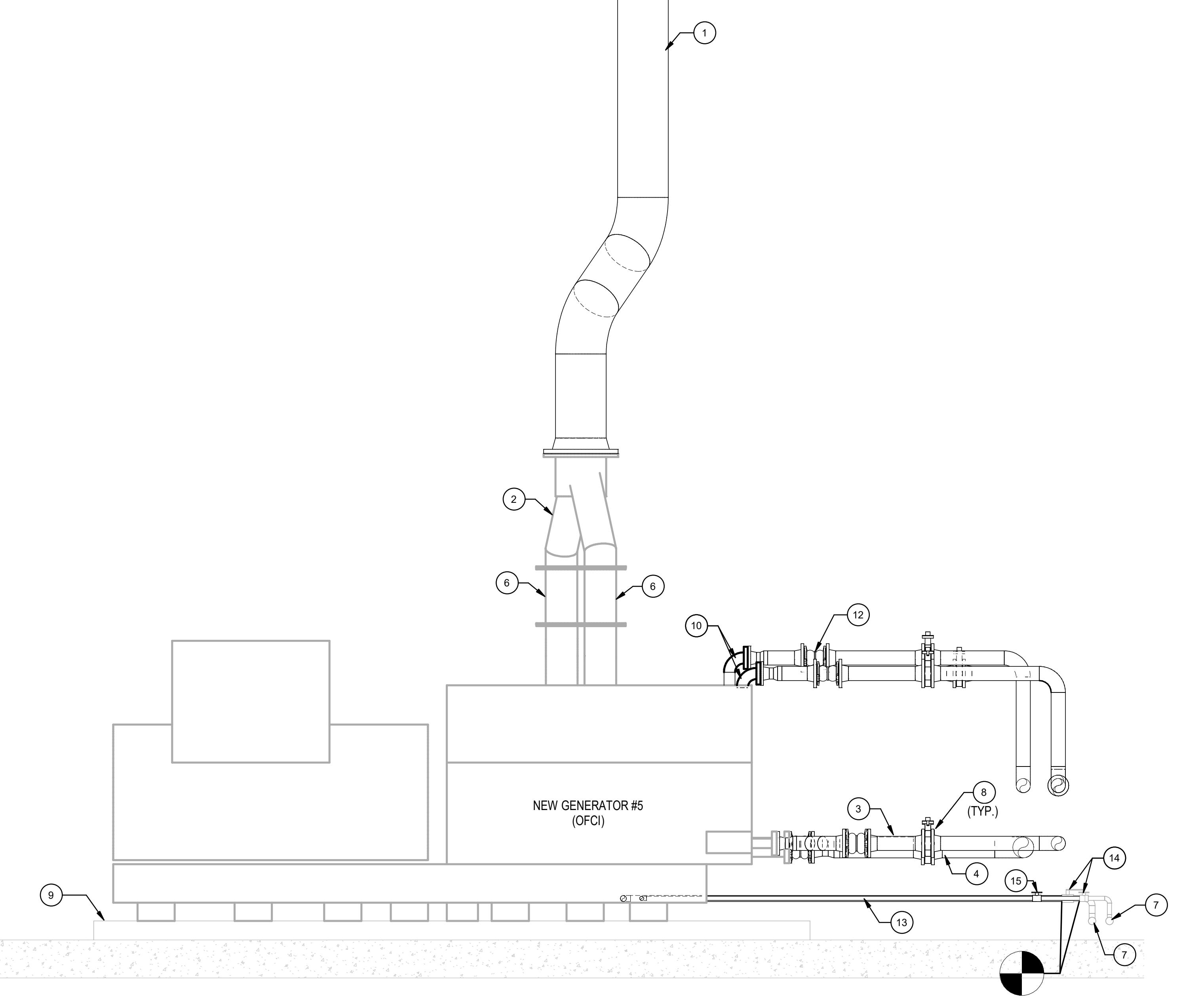


REF: MECHANICAL SPECIFICATIONS AS WELL AS ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ROOF PENETRATION



1 CUB 1 GENERATOR #5 - WEST

1/2" = 1'-0"



2 CUB 1 GENERATOR #5 - NORTH

1/2" = 1'-0"

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NO	ISSUE	DATE
A	95% PROGRESS	07/14/21
B	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

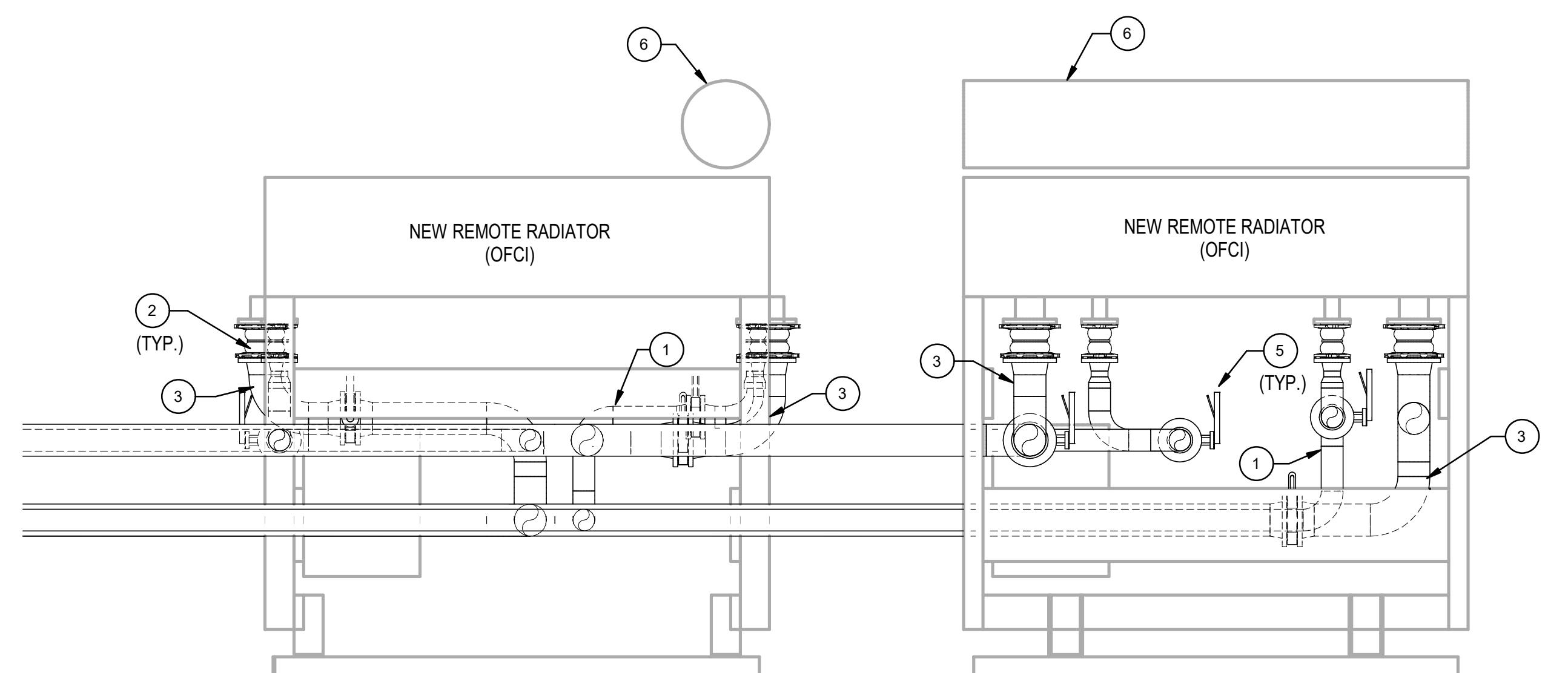
SHEET TITLE:
MECHANICAL
SECTION
FIRST LEVEL AND ROOF
SECTOR 3

DATE: 07/26/21 PRJ. NO.: D3511600
DRAWN BY: DMERRICK SHEET NO.:
CHECKED BY: W.SODD
SCALE: 1/2" = 1'-0"

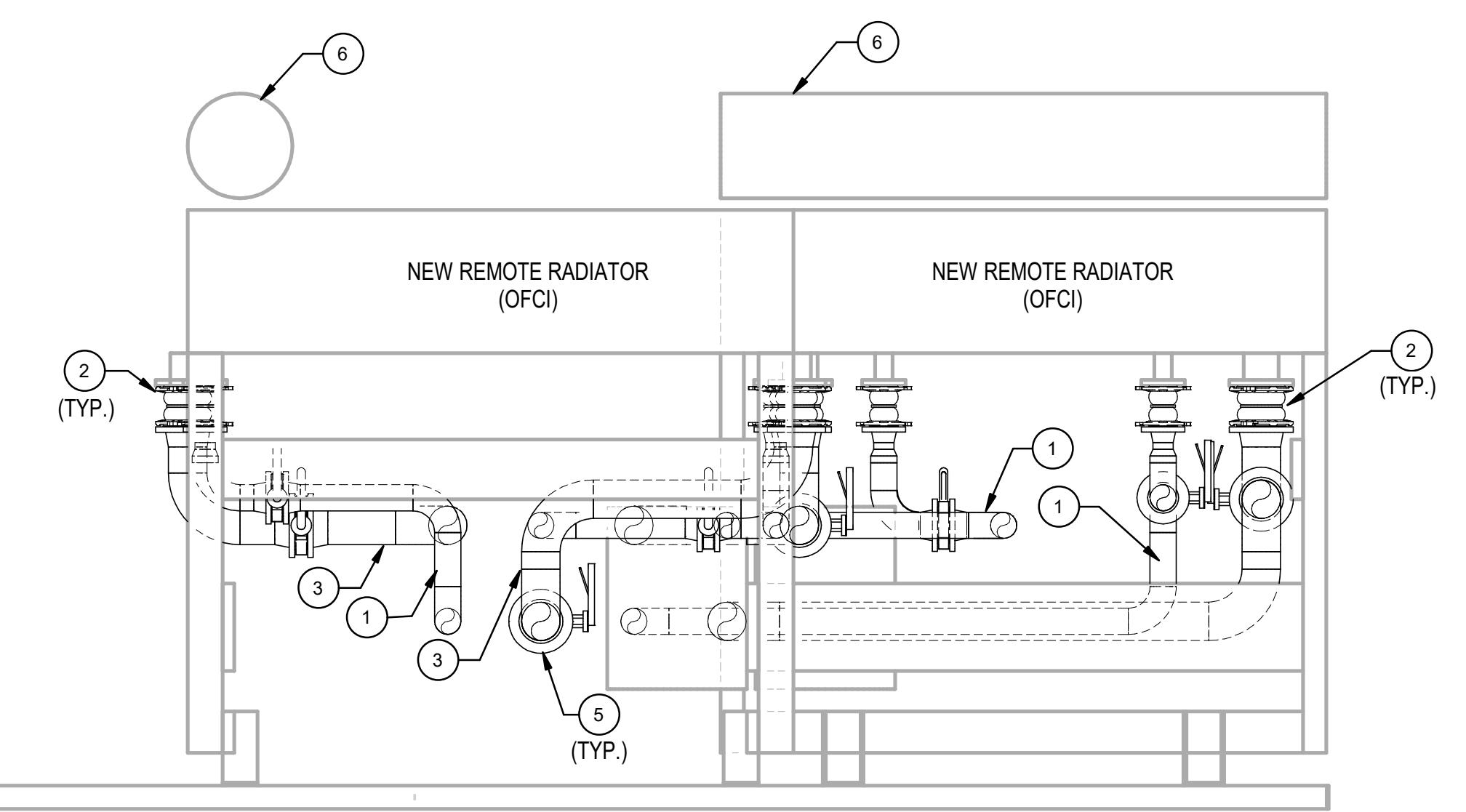
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KEYED NOTES:

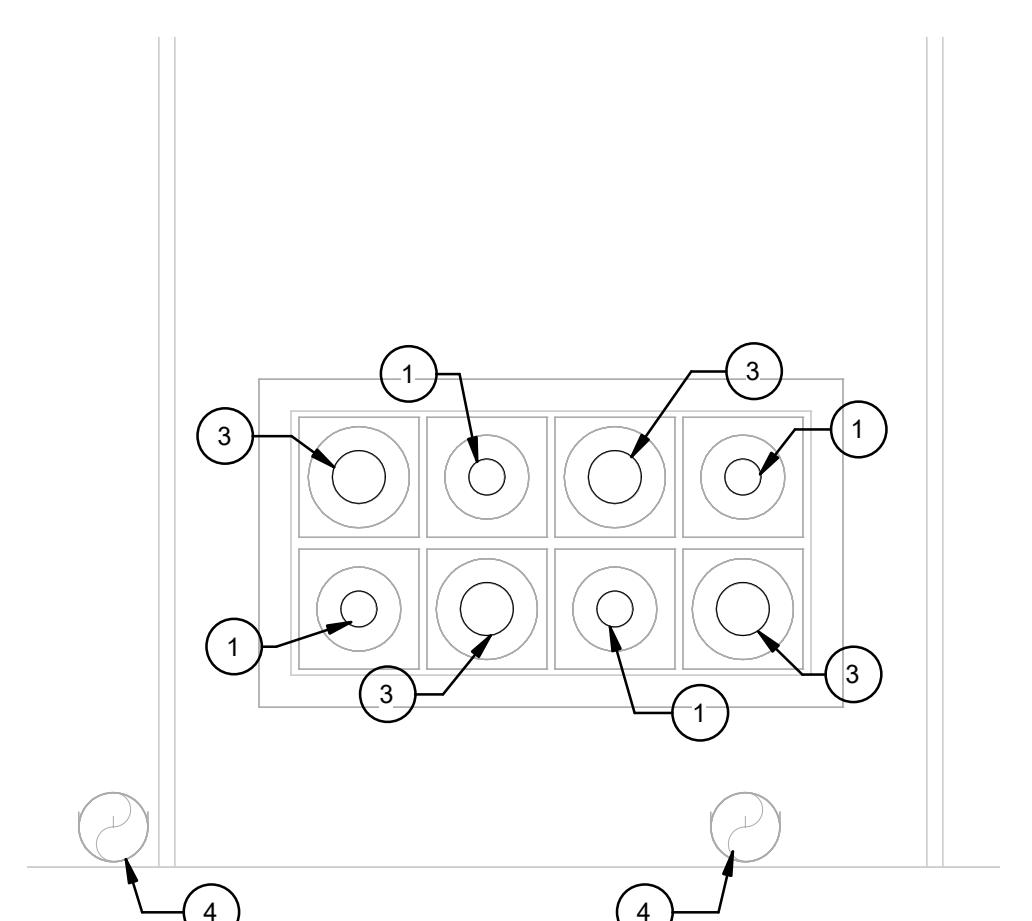
- 1 4" COOLANT LINE
- 2 FLEXIBLE CONNECTORS AT REMOTE RADIATOR PIPE CONNECTIONS (TYP. 4 PER GENERATOR)
- 3 6" COOLANT LINE
- 4 EXISTING 8" DRAIN PIPE
- 5 BUTTERFLY SHUTOFF VALVE
- 6 REMOTE RADIATOR EXPANSION TANK



2 CUB 1 GENERATORS #5 AND #6 REMOTE RADIATORS - WEST



1 CUB 1 GENERATORS #5 AND #6 REMOTE RADIATORS - SOUTH



3 COOLANT PIPING EXITING CUB 1 GENERATOR ROOM - SOUTH

NOTES:
 1. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL PENETRATION DETAILS, AS WELL AS MECHANICAL SPECIFICATIONS FOR PENETRATION REQUIREMENTS.
 2. FIELD ROUTE TWELVE (12) COOLANT VENT LINES FROM CUB 1 GENERATOR ROOM TO REMOTE RADIATORS, MAINTAINING A CONSTANT SLOPE UP FROM THE GENERATOR CONNECTIONS AND THE COOLANT PIPE HIGH POINT CONNECTIONS TO THE REMOTE RADIATOR EXPANSION TANKS. PENETRATION ELEVATIONS WILL BE dictated BY EQUIPMENT CONNECTION ELEVATIONS AND FIELD ROUTING. REFER TO STRUCTURAL DRAWINGS FOR VENT LINE WALL PENETRATION PROCEDURE. SIX (6) VENT LINES PER GENERATOR INCLUDE:
 -THREE (3) VENT LINES FROM GENERATOR COOLANT VENT CONNECTIONS
 -THREE (3) VENT LINES FROM HIGH POINTS IN THE COOLANT OUTLET PIPING
 REFER TO COOLANT FLOW DIAGRAM.

GENERAL NOTES:

- A. REFER TO F1-GM-0001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE SCALLED FOR CONSTRUCTION PURPOSES.
- C. CONTRACTOR ENGINEERED SUPPORT SYSTEMS. ALL NEW PIPING AND MODIFIED EXISTING PIPING SHALL BE CONTRACTOR ENGINEERED PIPE LAYOUT AND SUPPORT SYSTEMS. PIPE STRESS AND SUPPORT ANALYSIS ARE DELEGATED TO THE CONTRACTOR'S ENGINEER, WHO SHALL BE A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF TEXAS AND CAPABLE OF PROVIDING DOCUMENTATION OF THE RESULTING DESIGN AND DETAILS BEARING THEIR PROFESSIONAL ENGINEERING SEAL. MODIFYING EXISTING PIPING INCLUDES CONNECTING NEW PIPING AND/OR ADDING INSULATION, WHICH SHALL BE EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.

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SEAL:



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A	95% PROGRESS	07/14/21
B	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE COMPLIANCE PROJECT (FAB-1)
 100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
 MECHANICAL SECTION FIRST LEVEL SECTOR 3

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	DMERRICK	SHEET NO.:	
CHECKED BY:	W.SODD		
SCALE:	1/2" = 1'-0"		

SAMSUNG

AUSTIN
SEMICONDUCTOR

KEYED NOTES:

- 1 FLEXIBLE CONNECTORS AT REMOTE RADIATOR PIPE CONNECTIONS (TYP. 4 PER GENERATOR)
- 2 6" COOLANT LINE.
- 3 4" COOLANT LINE.
- 4 EXISTING 2" FUEL OIL LINES, SUPPLY AND RETURN.
- 5 NEW FUEL OIL 1" SUPPLY (TYP. 2 GENS).
- 6 EXISTING PLUGS.
- 7 NEW FLEXIBLE CONNECTORS AT GENERATOR FUEL OIL PIPE CONNECTIONS (TYP. 2 GENS).
- 8 16" EXHAUST PIPE, UP THROUGH ROOF (TYP. 2 GENS). REF: MECHANICAL SPECIFICATIONS AS WELL AS ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ROOF PENETRATION DETAILS.
- 9 10' EXHAUST PIPES (TYP. 2 GENS).
- 10 JACKET WATER CIRCUIT.
- 11 AFTERCOOLER CIRCUIT.
- 12 REF: ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CUB 1 AS MECHANICAL SPECIFICATIONS FOR PENETRATION DETAILS.
- 13 REF: STRUCTURAL DRAWINGS FOR HOUSEKEEPING PAD DETAILS, COORDINATE REMOTE RADIATOR SUPPORTS AND EQUIPMENT PAD WITH STRUCTURAL DRAWINGS.
- 14 INSULATE INDOOR PORTION OF NEW EXHAUST PIPES. DO NOT INSULATE FLEXIBLE CONNECTORS (TYP. 2 NEW GENERATORS).
- 15 NEW HOUSEKEEPING PADS. REF: STRUCTURAL DRAWINGS.
- 16 INSULATE INDOOR PORTION OF COOLANT PIPING TO MINIMIZE HEAT REJECTION INTO ROOM IN ADDITION TO PROVIDING PERSONNEL PROTECTION. DO NOT INSULATE FLEXIBLE CONNECTORS.
- 17 INSULATE OUTDOOR PORTION OF COOLANT PIPING FOR PERSONNEL PROTECTION. WEATHERPROOF OUTDOOR PIPING INSULATION. PAINT ANY UNINSULATED OUTDOOR PIPE FOR CORROSION RESISTANCE. DO NOT INSULATE FLEXIBLE CONNECTORS.
- 18 BUTTERFLY SHUTOFF VALVE.
- 19 NEW FUEL OIL 3/4" RETURN (TYP. 2 GENS)
- 20 COORDINATE WITH GENERATOR MANUFACTURER FOR THE ELEVATION OF THE REMOTE RADIATOR EXPANSION TANK (TYP. 2 GENS).
- 21 NEW FLEXIBLE CONNECTORS AT GENERATOR COOLANT PIPE CONNECTIONS (TYP. 2 GENS).
- 22 NEW CHECK VALVE (TYP. 2 GENS).
- 23 REF: ARCHITECTURAL DRAWINGS FOR RELOCATION OF EXISTING PIPE DRAIN LEADERS. EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.

GENERAL NOTES:

- A. REFER TO F1-GM-0001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- C. CONTRACTOR ENGINEERED SUPPORT SYSTEMS, ALL NEW PIPING AND MODIFIED EXISTING PIPING SHALL BE CONTRACTOR ENGINEERED PIPE LAYOUT AND SUPPORT SYSTEMS. PIPE STRESS AND SUPPORT ANALYSIS ARE DELEGATED TO THE CONTRACTOR'S ENGINEER WHO SHALL BE A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF TEXAS AND CAPABLE OF PROVIDING DOCUMENTATION OF THEIR RESULTING DESIGN AND DETAILS BEARING THEIR PROFESSIONAL ENGINEERING SEAL. MODIFYING EXISTING PIPING INCLUDES CONNECTING NEW PIPING AND/OR ADDING INSULATION WHICH SHALL BE EVALUATED FOR IMPACTS TO THE EXISTING PIPE LAYOUT, PIPE STRESS AND SUPPORT SYSTEMS, AND IMPACTS TO EXISTING SUPPORTS AND STRUCTURES.
- D. GENERATOR, REMOTE RADIATOR, GENERATOR EXHAUST FLEXIBLE CONNECTORS, HARD WYE, SILENCER, AND RAIN CAP OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).
- E. EXISTING FUEL OIL STORAGE AND TRANSFER SYSTEM IS OUTSIDE THE SCOPE OF THIS PROJECT.

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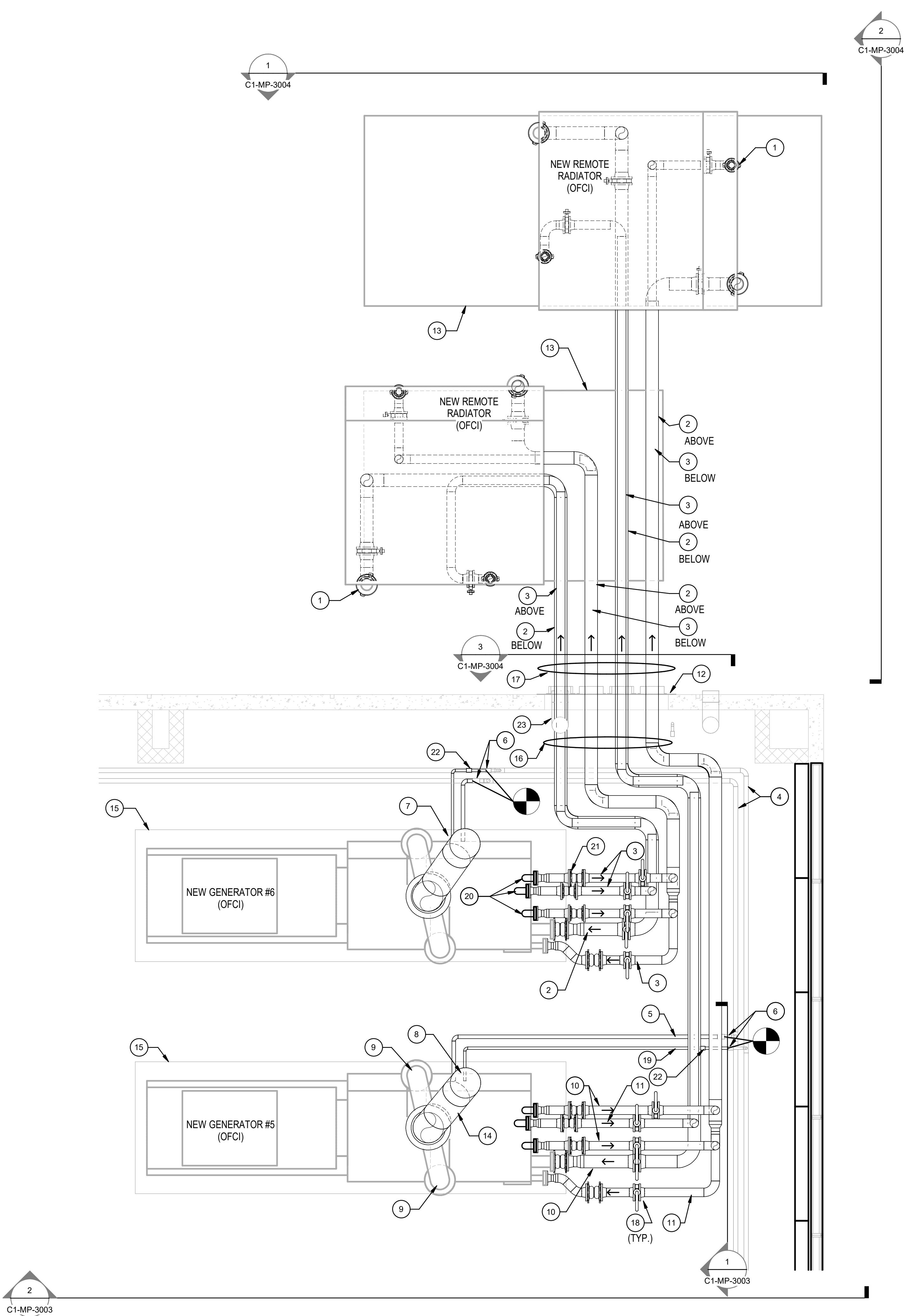
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NO	ISSUE	DATE
A	95% PROGRESS	07/14/21
B	100% CONSTRUCTION DOCUMENTS	07/26/21

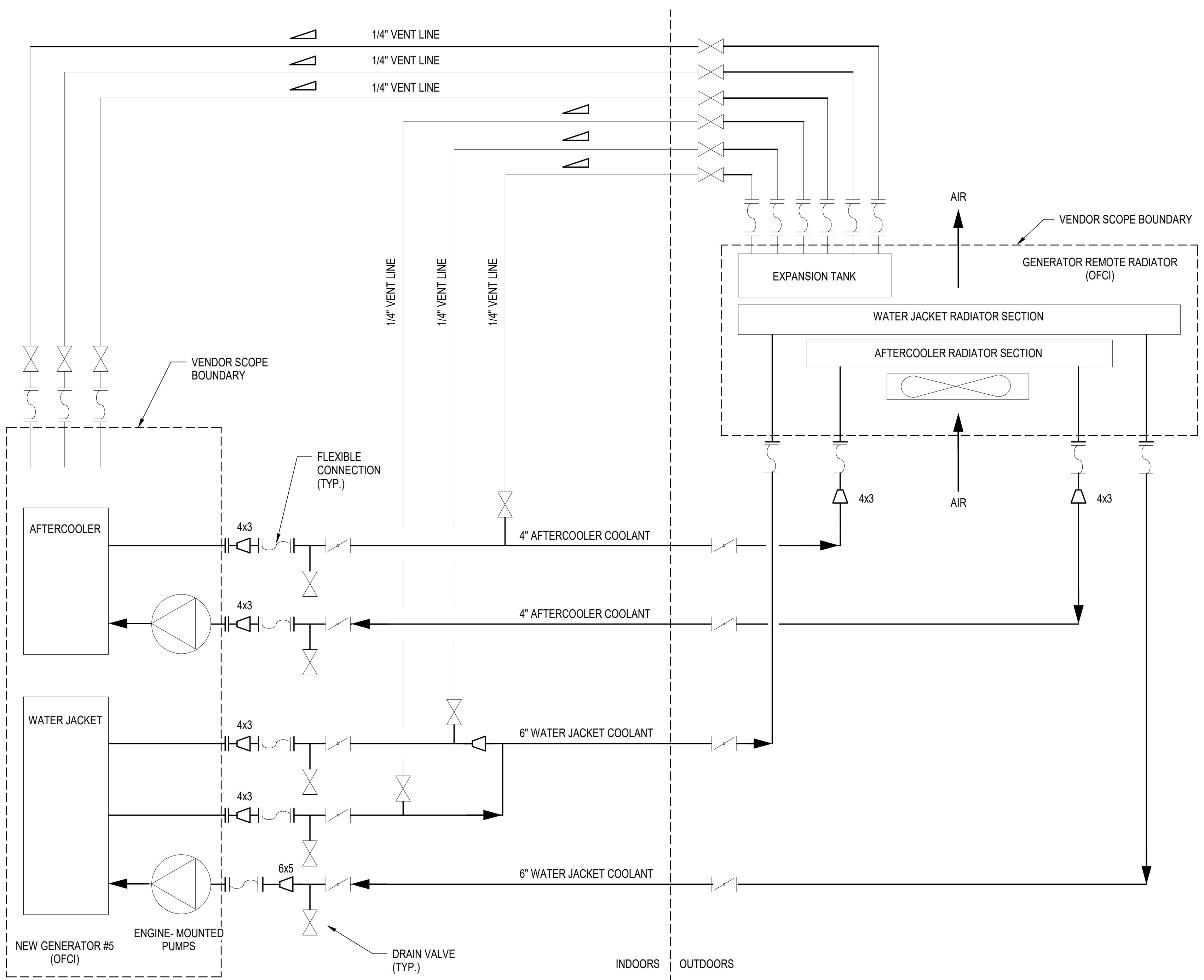
PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:	MECHANICAL ENLARGED PLAN FIRST LEVEL SECTOR 3
DATE:	07/26/21
DRAWN BY:	D. MERRICK
CHECKED BY:	W. SOOD
SCALE:	3/8" = 1'-0"



1 CUB 1 GENERATOR ROOM - FIRST LEVEL - ENLARGED

3/8" = 1'-0"



1 CUB 1 COOLANT FLOW DIAGRAM GEN 5

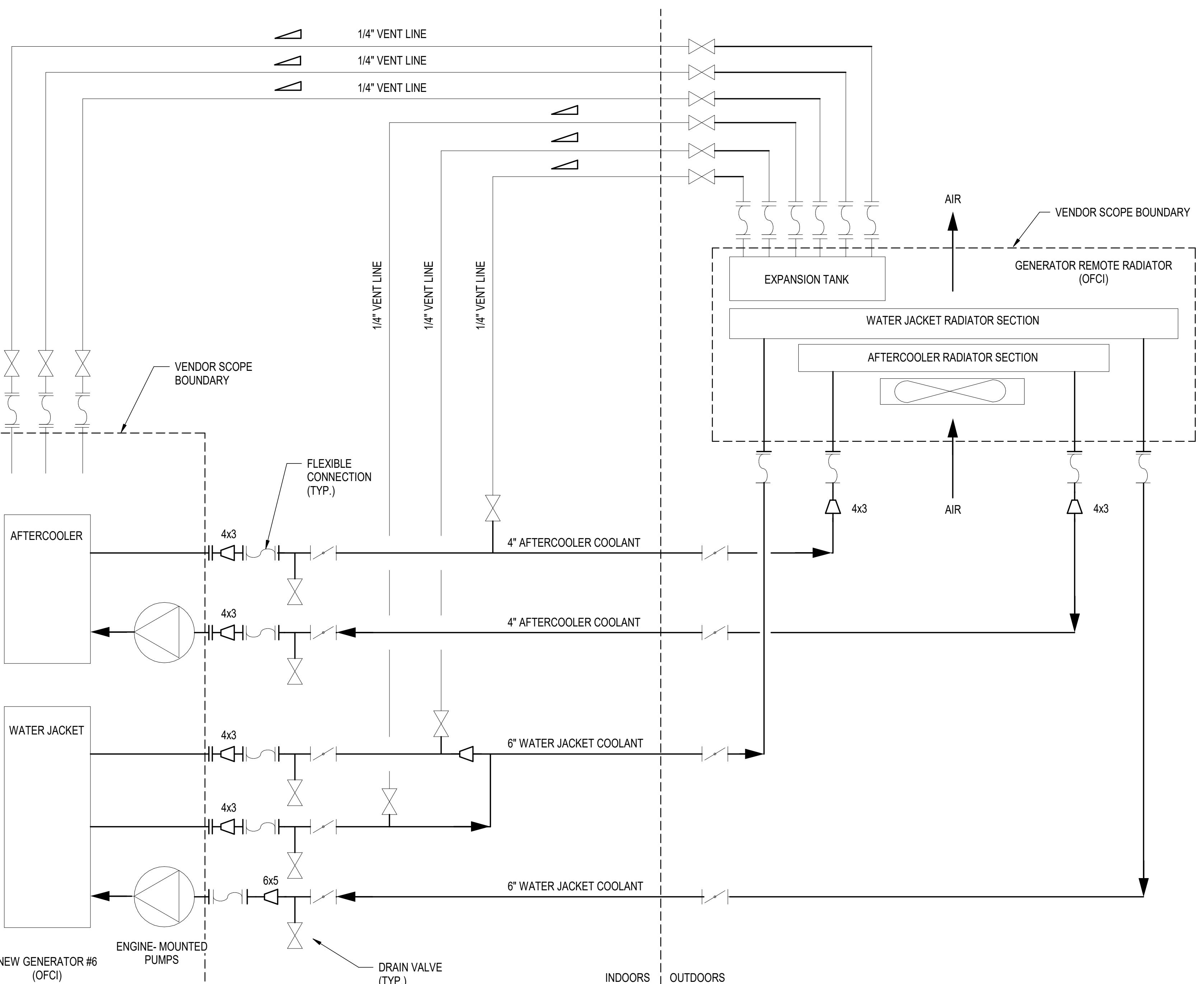
Not to Scale

2 CUB 1 COOLANT FLOW DIAGRAM GEN 6

Not to Scale

GENERAL NOTES:

- A. REFER TO F1-GM-0001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- B. GENERATOR, REMOTE RADIATOR, GENERATOR EXHAUST FLEXIBLE CONNECTORS, HARD WYE, AND SILENCER OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).
- C. INSULATE INDOOR PORTION OF COOLANT PIPING TO MINIMIZE HEAT REJECTION INTO ROOM IN ADDITION TO PROVIDING PERSONNEL PROTECTION, INSULATE OUTDOOR PORTION OF COOLANT PIPING FOR PERSONNEL PROTECTION. DO NOT INSULATE FLEXIBLE CONNECTORS.
- D. ROUTE COOLANT PIPING TO ALLOW NATURAL VENTING TO EXPANSION TANK ON TOP OF RADIATOR. DO NOT CREATE ANY HIGH POINTS OR POCKETS BETWEEN THE GENERATOR AND RADIATOR UNLESS ABSOLUTELY NECESSARY. ANY HIGH POINTS SHALL HAVE VENT LINES WHICH ARE SLOPED CONTINUOUSLY UPWARD, WITH NO HIGH POINTS OR LOW POINT POCKETS, TO TOP OF EXPANSION TANK FOR PASSIVE VENTING.
- E. THE REMOTE RADIATOR EXPANSION TANK SHALL BE THE HIGH POINT OF THE COOLANT SYSTEMS. ALL COOLANT PIPING SHALL BE INSTALLED BELOW THE ELEVATION OF THE EXPANSION TANK.
- F. COORDINATE WITH GENERATOR MANUFACTURER FOR THE RECOMMENDED ELBOW FITTINGS TO LOWER THE GENERATOR COOLANT OUTLET CONNECTIONS SUFFICIENTLY BELOW THE ELEVATION OF THE REMOTE RADIATOR EXPANSION TANKS.
- G. COOLANT IS A 50% ETHYLENE GLYCOL / 50% WATER MIXTURE.



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SEAL:



NO	ISSUE	DATE
A	60% PROGRESS	06/11/21
B	75% PROGRESS	07/06/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:

MECHANICAL
FLOW DIAGRAM
COOLANT

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	DMERRICK	SHEET NO.:	
CHECKED BY:	W.SODD		
SCALE:	N.T.S.		

EXHAUST FAN SCHEDULE															
TAG	LOCATION	SERVICE	TYPE	AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN W.C.)	FAN RPM	MOTOR DATA						BASIS OF DESIGN	WEIGHT (LBS)	NOTES
							DRIVE	HP	RPM	VOLTAGE	PHASE	HERTZ	MANUFACTURER	MODEL	
C1-03	CUB1 GENERATOR ROOM EXHAUST	TUBE AXIAL	65,000	0.5	938	BELT	25	1725	460	3	60	GREENHECK	TAUB-CA-60-250	1500	1,2,3
C1-03	CUB1 GENERATOR ROOM EXHAUST	TUBE AXIAL	65,000	0.5	938	BELT	25	1725	460	3	60	GREENHECK	TAUB-CA-60-250	1500	1,2,3
C1-03	CUB1 GENERATOR ROOM EXHAUST	TUBE AXIAL	65,000	0.5	938	BELT	25	1725	460	3	60	GREENHECK	TAUB-CA-60-250	1500	1,2,3

NOTES:
 1. PROVIDE PREMIUM EFFICIENCY MOTOR IN ACCORDANCE WITH NEMA MG-1.
 2. PROVIDE WITH DISCHARGE BUTTERFLY SHUTOFF DAMPER.
 3. REFER TO SPECIFICATION 23 34 16, "EXHAUST FANS - HVAC."

DAMPER SCHEDULE											
TAG	LOCATION	SERVICE	TYPE	SIZE			BASIS OF DESIGN		NOTES		
				MANUFACTURER	MODEL						
C1-03	CUB1 GENERATOR ROOM INTAKE	OPEN/CLOSE WITH FAIL SAFE PNEUMATIC OPERATOR (FAIL OPEN)	SIZE AS ASSOCIATED LOUVER DIMENSIONS, NOMINALLY 30 FT WIDE X 15 FT HIGH	RUSKIN	CD-06					1,2,3,4	

NOTES:
 1. PROVIDE COMPLETE ASSEMBLY WITH PNEUMATIC OPERATORS, JACKSHAFTS, 3-WAY SOLENOID VALVES, AND ANY NECESSARY ACCESSORIES.
 2. ACTUATED DAMPERS ARE OPEN/CLOSE, NORMALLY CLOSED, INTERLOCKED TO OPEN UPON GENERATORS STARTING, AND FAIL OPEN UPON LOSS OF AIR OR UPON LOSS OF ELECTRICAL POWER. NORMAL OPERATION IS AIR TO CLOSE, SPRING TO OPEN.
 3. INDIVIDUAL DAMPERS COMPRISING OVERALL INTAKE DAMPER ARRANGEMENT ARE 5'X5' AS BASIS OF DESIGN, 18 TOTAL.
 4. REFER TO SPECIFICATION 23 31 19, "DAMPERS."

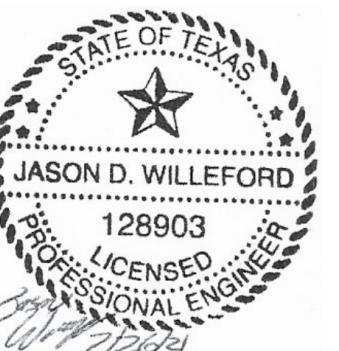
LOUVER SCHEDULE										
TAG	LOCATION	SIZE DATA			MIN FREE AREA (%)	MAX P.D. (IN WG)	MAX VELOCITY (FPM)	MANUFACTURER	MODEL	NOTES
		WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)						
C1-03		360	180	6	68.73	0.10	900	RUSKIN	ELF6350DMP	1,2,3,4

NOTES:
 1. COORDINATE WITH ARCHITECTURE FOR FINISH AND MOUNTING HEIGHTS.
 2. PROVIDE WITH BIRD SCREEN.
 3. TO BE INSTALLED WITH ASSOCIATED PNEUMATIC ISOLATION DAMPER.
 4. REFER TO SPECIFICATION 08 91 19, "FIXED LOUVERS."

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B	75% PROGRESS	07/08/21
C	95% PROGRESS	07/14/21
D	100% CONSTRUCTION DOCUMENTS	07/26/21

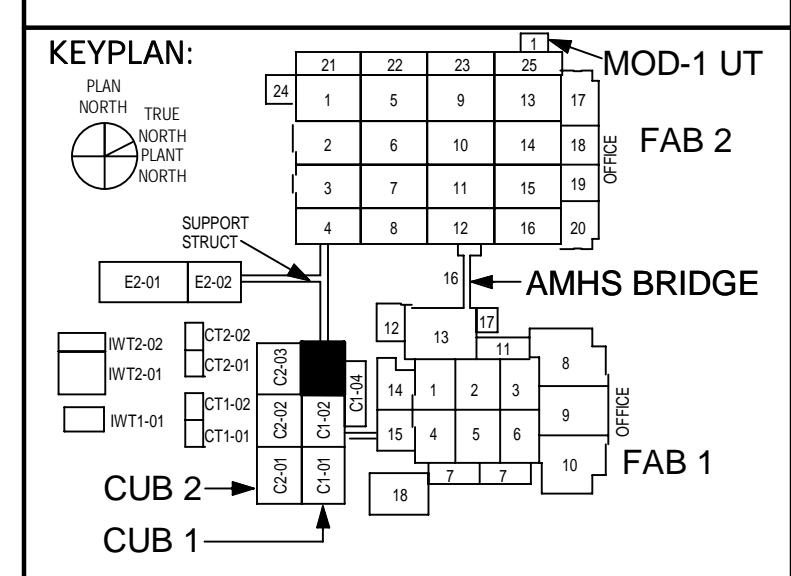
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 2021 GENERATOR CODE
 COMPLIANCE PROJECT
 (FAB-1)
 100% CONSTRUCTION DOCUMENTS

 SHEET TITLE:
 MECHANICAL
 SCHEDULES

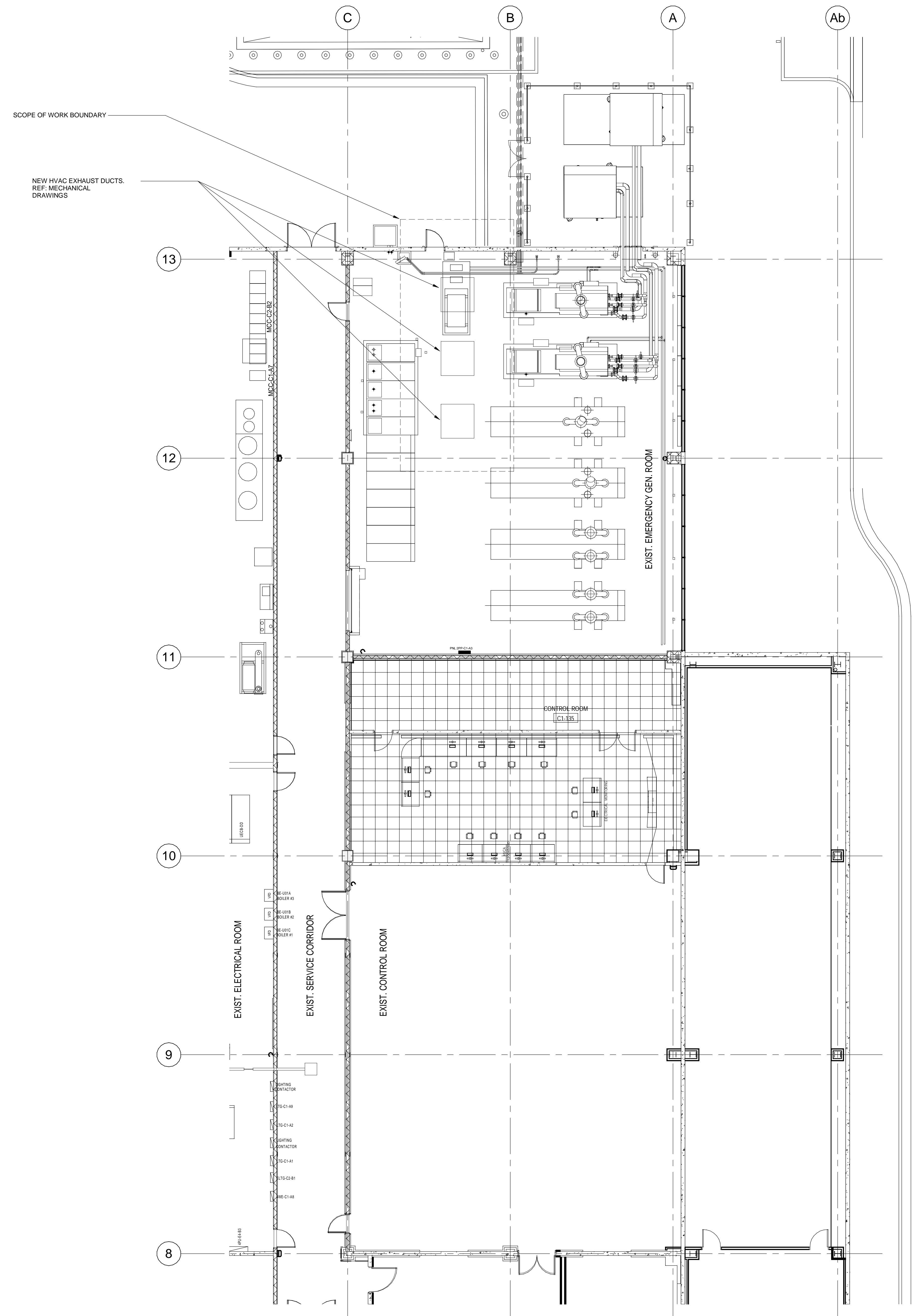
DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:	DMERRICK	SHEET NO.:	
CHECKED BY:	WSODD	SCALE:	
			C1-M-5003

SAMSUNG

AUSTIN SEMICONDUCTOR

**SCOPE OF WORK:**

1. REMOVE FIRE SPRINKLER BRANCH LINE SO NEW HVAC EXHAUST DUCTS CAN BE INSTALLED.
2. AFTER NEW HVAC EXHAUST DUCTS ARE INSTALLED, PROVIDE NEW FIRE SPRINKLER BRANCH PIPE AND NEW FIRE SPRINKLERS TO PROVIDE FIRE SPRINKLER COVERAGE TO SCOPE OF WORK BOUNDARY.
3. OBTAIN PERMIT FOR WORK FROM CITY OF AUSTIN.
4. MINIMIZE FIRE SPRINKLER SYSTEM OUTAGES BY FILLING SYSTEM WITH WATER AND RESTORING FIRE ALARM MONITORING WHEN BUILDING IS UNOCCUPIED.
5. COORDINATE FIRE SPRINKLER SYSTEM OUTAGES WITH OWNER, CITY AND FIRE ALARM MONITORING SERVICE.
6. ANY FIRE SPRINKLER REMOVED SHALL NOT BE REINSTALLED.
7. MATCH NEW FIRE SPRINKLERS TO EXISTING FIRE SPRINKLERS WITH REGARDS TO K FACTOR, ORIENTATION, TEMPERATURE, RESPONSE AND FINISH.
8. PROVIDE HYDROSTATIC TEST OF FIRE SPRINKLER SYSTEM AS REQUIRED BY NFPA 13.

**1 FIRE PROTECTION PLAN - GENERATOR AND CUB-1 ELECTRICAL ROOM**

1/8" = 1'-0"

JacobsTBCE Registration #2966
2705 Bee Cave Rd. SUITE 300
Austin, TX 78746
www.Jacobs.com

SEAL:



NO	ISSUE	DATE
A	100% CONSTRUCTION DOCUMENTS	07/26/21

PACKAGE TITLE:
2021 GENERATOR CODE
COMPLIANCE PROJECT
(FAB-1)
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
FIRE PROTECTION PLAN
CUB-1
FIRST LEVEL SECTOR 03

DATE:	07/26/21	PRJ. NO.:	D3511600
DRAWN BY:		SHEET NO.:	
CHECKED BY:			
SCALE:	1/8" = 1'-0"		

PLOT DATE/TIME: 7/23/2021 11:22:45 AM