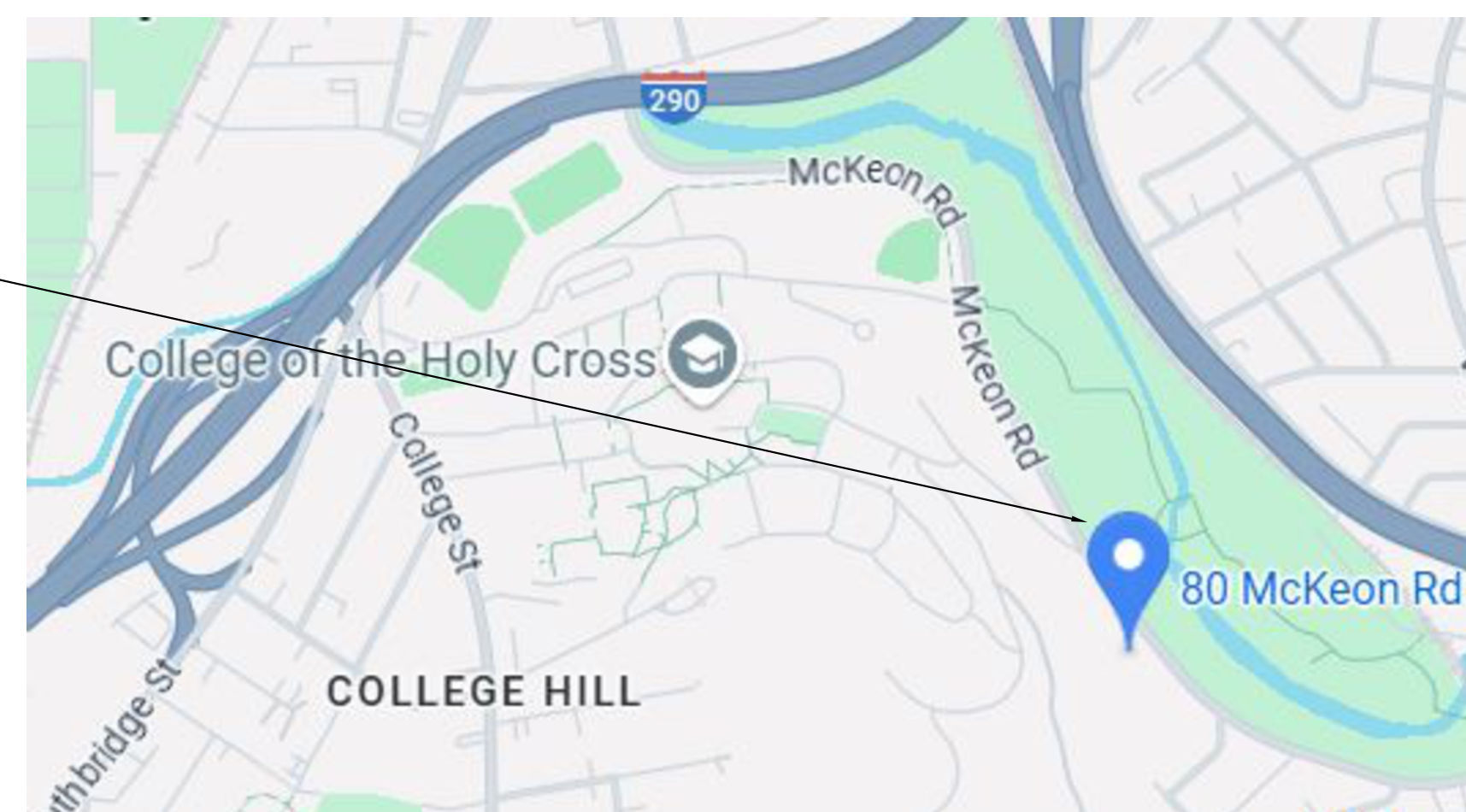


WORCESTER FIRE DEPARTMENT 80 MCKEON ROAD FIRE STATION GENERATOR UPGRADE

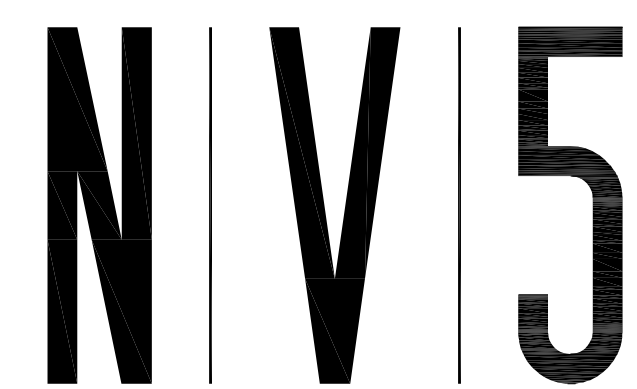
JANUARY 20, 2026



LOCALITY MAP



MCKEON ROAD FIRE STATION
80 MCKEON ROAD
WORCESTER, MA



200 Brickstone Square,
Andover, MA 01810-1488
T. 978-296-6200
F. 978-296-6201
W. www.nv5.com

INDEX OF DRAWINGS

T100	TITLE SHEET
E000	ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS
E100	ELECTRICAL SITE PLAN
E200	ELECTRICAL FIRST FLOOR PLAN
E300	ELECTRICAL ONE-LINE DIAGRAM, SCHEDULES AND DETAILS
E301	ELECTRICAL ONE-LINE DIAGRAM, SCHEDULES AND DETAILS - ADD ALTERNATES
E400	ELECTRICAL DETAILS
ED200	ELECTRICAL FLOOR PLAN - DEMOLITION



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STATUS**
DATE

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CLIENT

CONSULTANT

PROJECT NAME

WORCESTER FIRE DEPARTMENT

WORCESTER
MCKEON ROAD FIRE
STATION
GENERATOR
UPGRADE

80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE

#	DESCRIPTION	DATE
1	ISSUED FOR BID	1/20/26

PROJECT NO.: 5940825-0003994
DESIGNED BY: MVM
CHECKED BY: KEG
DATE: 01.20.2026
SCALE: N.T.S.

SHEET NAME

COVER SHEET

SHEET NUMBER

T100

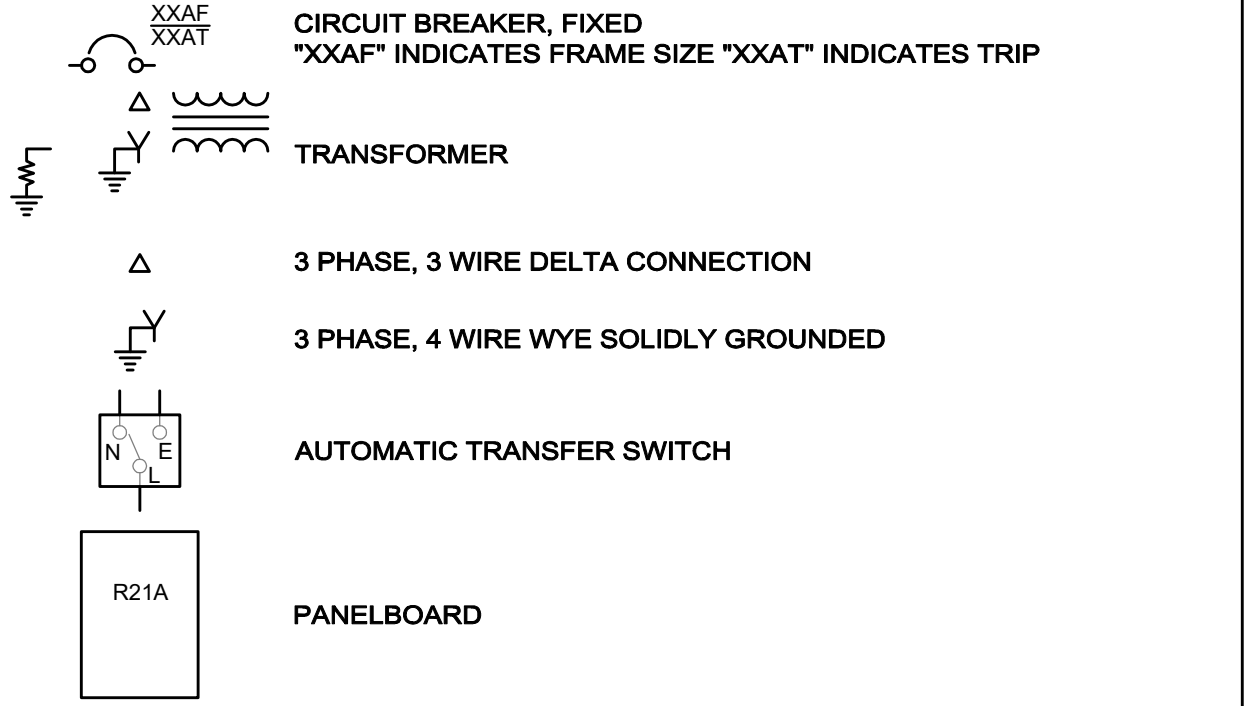
ELECTRICAL DEMOLITION NOTES

- REFER TO THE ELECTRICAL DRAWINGS FOR THE EXTENT OF THE DEMOLITION SCOPE OF WORK AND AREA. THE DEMOLITION PLANS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE ELECTRICAL DEMOLITION PLANS ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION.
- PERFORM ELECTRICAL DEMOLITION WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN COOPERATION WITH THE OTHER TRADES AND AS SCHEDULED AND APPROVED BY THE OWNER'S REPRESENTATIVE. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ELECTRICAL PLANS.
- THE LOCATIONS OF EXISTING EQUIPMENT INCLUDING EQUIPMENT, CONDUITS, ETC. ARE SHOWN IN AN APPROXIMATE WAY ONLY. VISIT THE SITE PRIOR TO SUBMISSION OF THE BIDS AND COMMENCEMENT OF WORK TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF THE WORK.
- POWER OUTAGES CAUSED BY DEMOLITION THAT AFFECT OTHER AREAS SHALL BE HELD TO A MINIMUM. SHUTDOWNS SHALL BE COORDINATED WITH USERS AND THE OWNER. NIGHT, WEEKEND, AND/OR HOLIDAY TIME REQUIRED TO PERFORM ELECTRICAL DEMOLITION WORK OR NEW ELECTRICAL WORK SHALL BE CARRIED AS PART OF THE CONTRACT COST.
- CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. THERE SHALL BE NO INTERRUPTION OF SERVICES OUTSIDE THE DEMOLITION AREA WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE.
- DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING.
- PROMPTLY REPAIR ANY DAMAGE CAUSED DURING/BY THE EXECUTION OF WORK. DAMAGE INCLUDES BUT IS NOT LIMITED TO DESTRUCTION OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
- EXERCISE CARE WITH EQUIPMENT THAT IS TO BE RELOCATED OR TURNED OVER TO THE OWNER. EXAMINE THE EQUIPMENT BEFORE REMOVAL IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO DETERMINE ITS CONDITION. DELIVER OWNER-RETAINED EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER AND OBTAIN ACKNOWLEDGMENT OF RECEIPT IN ORIGINAL CONDITION.
- ALL ITEMS REMOVED SHALL BE OFFERED TO THE OWNER FOR SALVAGE. IF THE OWNER DOES NOT TAKE POSSESSION, DISPOSE OF THE ITEMS IN A SAFE AND LEGAL MANNER. ALL ITEMS CLASSIFIED AS HAZARDOUS SHALL BE DISPOSED AS HAZARDOUS WASTES AND A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PROVIDED TO THE OWNER.
- ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION.
- CREATE AND SUBMIT IMPAIRMENT PLANS TO THE OWNER AND AHJ IF ANY PORTION OF THE EXISTING FIRE ALARM SYSTEM IS TAKEN OUT OF SERVICE DURING THE EXECUTION OF THE PROJECT.

EXISTING EQUIPMENT LEGEND

XM	EXISTING EQUIPMENT TO REMAIN
X	EXISTING EQUIPMENT TO BE REMOVED
XR	EXISTING EQUIPMENT TO BE RELOCATED
XRW	EXISTING EQUIPMENT TO BE REWORKED.
XN	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT
NR	EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT TO BE INSTALLED ON EXISTING BRANCH/FEEDER
	EXISTING EQUIPMENT FOR INFORMATION ONLY- INDICATED BY SYMBOL WITH LIGHT AND OUT OF FUNCTION LINE TYPE
	EXISTING EQUIPMENT TO BE REWORKED- INDICATED BY SYMBOL WITH DASHED AND IN FUNCTION LINE TYPE

ONE LINE SYMBOLS LEGEND



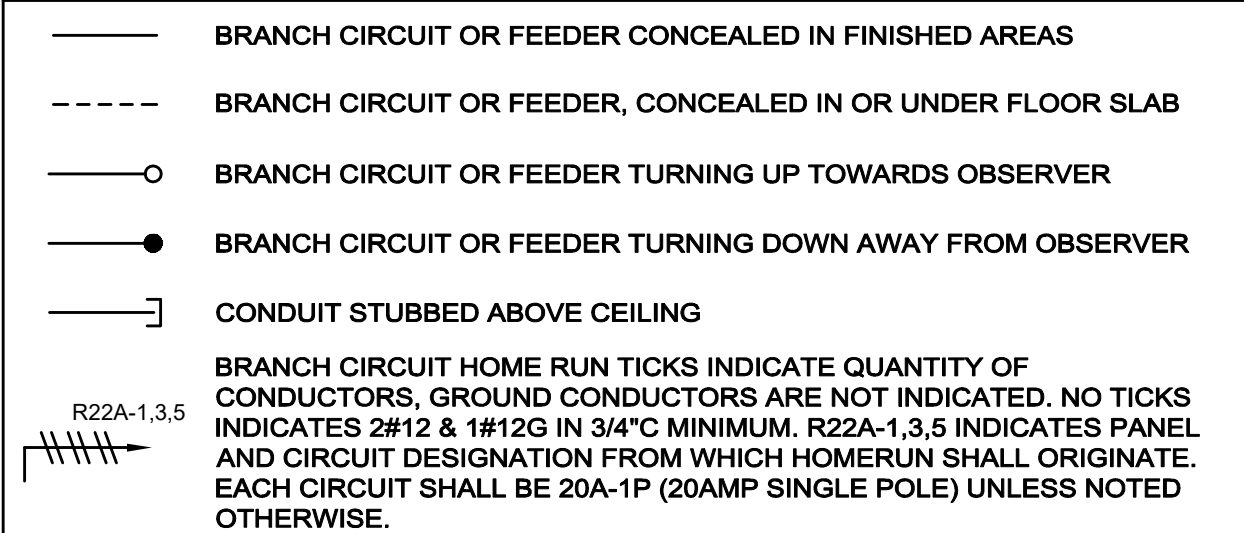
ABBREVIATIONS

A/AMP	AMPERE	KWH	KILOWATT HOURS
AC	ALTERNATING CURRENT	LTG	LIGHTING
ADA	AMERICAN WITH DISABILITIES ACT	MCB	MAIN CIRCUIT BREAKER
AF	AMPERE FRAME	MEC	MASSACHUSETTS ELECTRICAL CODE
AFF	ABOVE FINISHED FLOOR	M/G	MOTOR/GENERATOR SET
AFG	ABOVE FINISHED GRADE	MH	MANHOLE
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MTD	MOUNTED
AT	AMPERE TRIP	MTG	MOUNTING
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED CONTACT
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
B	BURIED	NO	NORMALLY OPEN CONTACT
C	CONDUIT	NTS	NOT TO SCALE
CA	CABLE	#	NUMBER
CATV	CABLE TELEVISION	OPD	OVER CURRENT PROTECTION DEVICE
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM	POS	PROVIDED UNDER OTHER SECTIONS
CB	CIRCUIT BREAKER	PVC	POLYVINYL CHLORIDE
CKT	CIRCUITS	PWR	POWER
CPU	CENTRAL PROCESSING UNIT	RGS	RIGID GALVANIZED STEEL
€	CENTERLINE	RMS	ROOT MEAN SQUARE VALUE
dB	DECIBEL	RPM	REVOLUTIONS PER MINUTE
DC	DIRECT CURRENT	SPD	SURGE PROTECTIVE DEVICE
DWG	DRAWING	SN	SOLID NEUTRAL
EC	ELECTRICAL CONTRACTOR	SWBD	SWITCHBOARD
EMT	ELECTRIC METALLIC TUBING	TB	TERMINAL BLOCK
FDR	FEEDER	TEL	TELEPHONE
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	TERMIN	TERMINAL
FREQ	FREQUENCY	TSP	TWISTED SHIELDED-PAIR
GEC	GROUNDING ELECTRODE CONDUCTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
GFI	GROUND FAULT INTERRUPTING	TYP	TYPICAL
GND	GROUND	UG	UNDERGROUND
HH	HANDHOLE	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UTP	UNSHIELDED TWISTED-PAIR
HZ	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT-AMPERE
JB	JUNCTION BOX	VSD	VARIABLE SPEED DRIVE
KVA	KILOVOLT-AMPERE	W	WATTS
KW	KILOWATT	WP	WEATHERPROOF

WIRING DEVICE LEGEND

	JUNCTION BOX
	PULLBOX

BRANCH CIRCUIT & FEEDER LEGEND



POWER DISTRIBUTION

	208Y/120 VOLT PANELBOARD, SURFACE MOUNTED REFER TO PANELBOARD SCHEDULE
	GROUND BAR
	TRANSFORMER

MOTOR & CONTROLS LEGEND

	GENERATOR REMOTE ANNUNCIATOR
	PORTABLE GENERATOR REMOTE ANNUNCIATOR
	AUTOMATIC TRANSFER SWITCH
	GENERATOR
	ENCLOSED CIRCUIT BREAKER IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED "100AF" - INDICATES 100AMP, 3-POLE FRAME CIRCUIT BREAKER "90AT" - INDICATES 90AMP TRIP

SITE LEGEND

	UNDERGROUND ELECTRIC "UE-EX" DENOTES EXISTING UNDERGROUND ELECTRIC
--	---



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CLIENT

WOCESTER FIRE DEPARTMENT

CONSULTANT

WORCESTER
MCKEON ROAD FIRE
STATION
GENERATOR
UPGRADE

PROJECT NAME

80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE

#	DESCRIPTION	DATE
1	ISSUED FOR BID	1/20/26

PROJECT NO.: 5940825-0003994
DESIGNED BY: MWM
CHECKED BY: KEG
DATE: 01.20.2026
SCALE: NTS

SHEET NAME
**ELECTRICAL LEGEND,
NOTES AND
ABBREVIATIONS**

SHEET NUMBER

E000

DIRECT BURIED CONDUIT SCHEDULE			
TAG	DESCRIPTION	CONDUIT	CONDUCTORS
G1	STANDBY EMERGENCY TO ATS-SB	EXIST (2)-3" C	SEE ONE-LINE DIAGRAM
G2	STANDBY EMERGENCY TO ATS-SB	NEW (2)-3" C	SEE ONE-LINE DIAGRAM
G3	STANDBY EMERGENCY TO MTS	NEW (2)-3" C	SEE ONE-LINE DIAGRAM
C1	GENERATOR REMOTE ANNUNCIATORS	NEW 1" C	SEE ONE-LINE DIAGRAM
C2	GENERATOR AUXILIARIES	NEW 1" C	SEE ONE-LINE DIAGRAM
C3	GENERATOR START	NEW 1" C	SEE ONE-LINE DIAGRAM

NOTES:

- ALL CONDUIT SHALL BE DIRECT BURIED. REFER TO DIRECT BURIED CONDUIT DETAIL ON DRAWING E400.
- ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.
- ALL GENERATOR OUTPUT CONDUCTORS INSTALLED IN DUCT SHALL BE TYPE USE.

KEYNOTES	
1	EXISTING PORTABLE GENERATOR AND RELATED FEEDER SHALL BE REWORKED TO PROVIDE TEMPORARY POWER DURING THE REPLACEMENT OF EXISTING GENERATOR AND AUTOMATIC TRANSFER SWITCH. UPON COMPLETION OF WORK, TEMPORARY POWER SHALL BE DISCONNECTED/REMOVED.
2	EXISTING WIRING SHALL BE DISCONNECTED/REMOVED BACK TO SOURCE. RELATED CONDUIT SHALL BE ABANDONED IN PLACE.
3	EXISTING CONDUIT SHALL BE INTERCEPTED/CUT BACK AND EXTENDED AS ILLUSTRATED.
4	TRANSITION FROM PVC TO RGS CONDUIT UTILIZING RIGID STEEL SWEEPS TO RUN EXPOSED ALONG EXTERIOR WALL TO WEATHERPROOF (NEMA 3R) JUNCTION BOX MOUNTED AT APPROXIMATELY 8'-0" A.F.G. CONDUIT PENETRATIONS THROUGH EXTERIOR WALL SHALL BE SEALED TO PREVENT WATER INFILTRATION.
5	PROVIDE HOUSEKEEPING PAD AND UNI-STRUT SUPPORT SYSTEM FOR PORTABLE GENERATOR DOCKING STATION. REFER TO DETAIL ON DRAWING E400 FOR ADDITIONAL INFORMATION.
6	DIVISION 26 CONTRACTOR SHALL ENGAGE DIVISION 22 PLUMBING CONTRACTOR TO DISCONNECT/RECONNECT EXISTING NATURAL GAS PIPING TO NEW GENERATOR.
7	SCOPE OF WORK SHALL BE CARRIED UNDER ADD ALTERNATE #2. REFER TO ONE-LINE DIAGRAM DRAWING E301 FOR ADDITIONAL INFORMATION.

NOTES:

- REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

NOTES:

- REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND DEMOLITION NOTES.
- MAINTAIN CONTINUITY OF BRANCH CIRCUITRY ASSOCIATED WITH ALL EXISTING POWER DEVICES TO REMAIN.



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CONSULTANT

PROJECT NAME

**WORCESTER FIRE DEPARTMENT
MCKEON ROAD FIRE STATION
GENERATOR UPGRADE**

80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE		
#	DESCRIPTION	DATE
1	ISSUED FOR BID	1/20/26

PROJECT NO.: 5940825-0003994

DESIGNED BY: MM

CHECKED BY: KEG

DATE: 01.20.2026

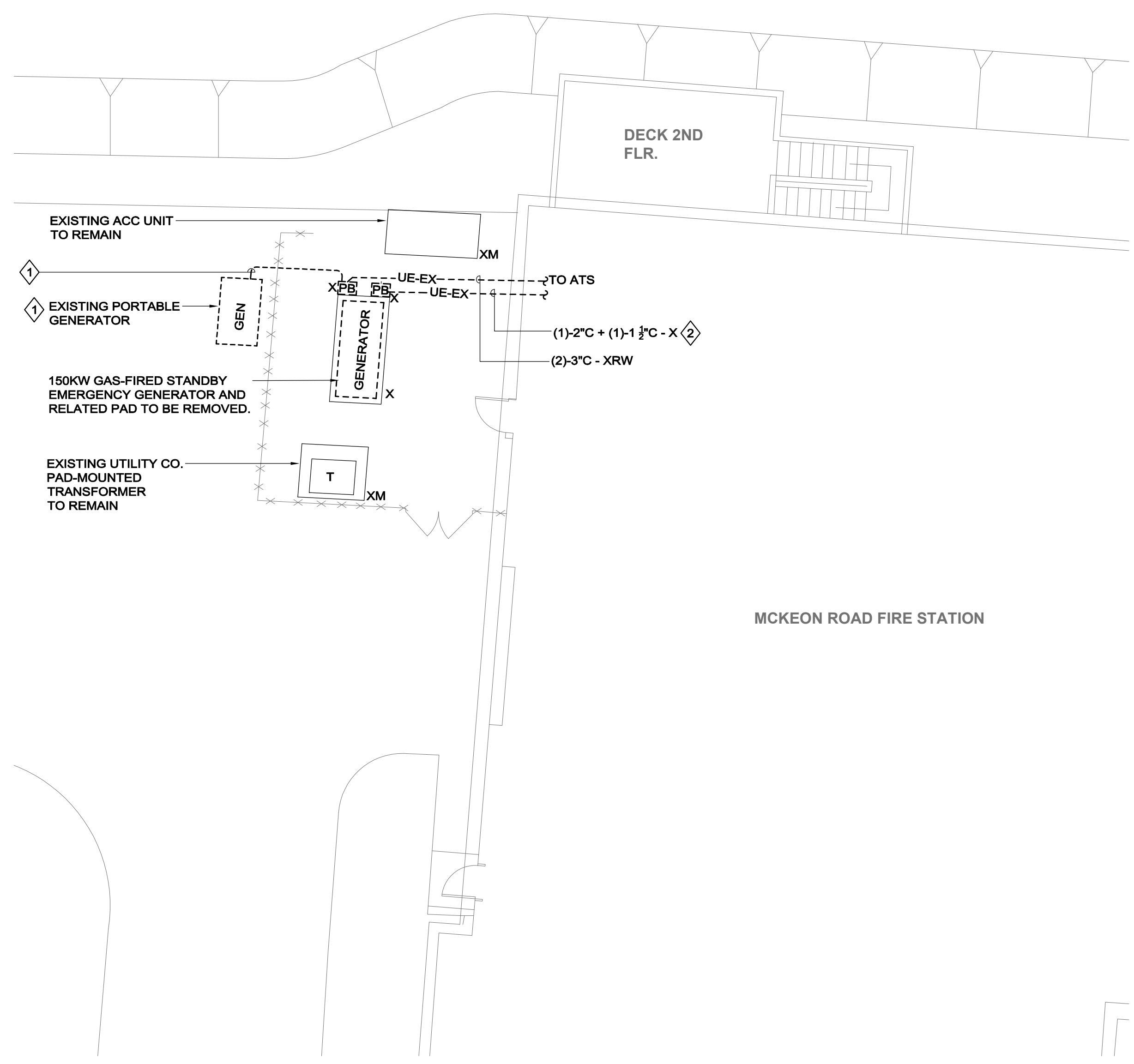
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SHEET NAME

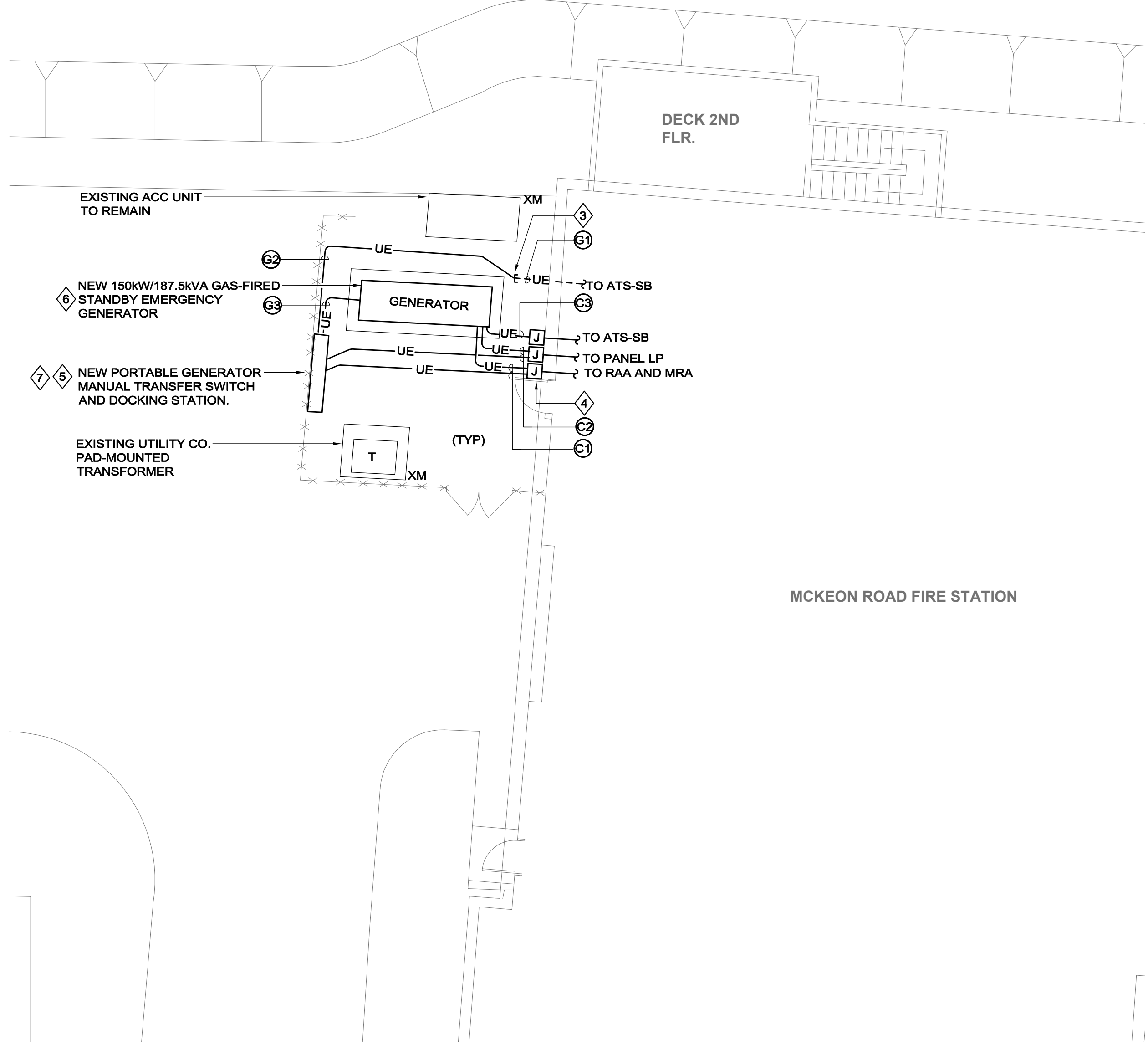
**ELECTRICAL
SITE PLAN**

SHEET NUMBER

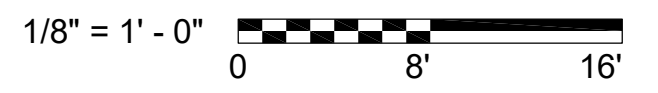
E100



1 ELECTRICAL DEMOLITION SITE PLAN
E100 1/8" = 1'-0"



2 ELECTRICAL NEW WORK SITE PLAN
E100 1/8" = 1'-0"



W:\BUILD3\Projects\2025\25-0003994 - Worcester Mckeon Rd FS Generator\500 Drawings\500 Drawings\500 Drawings\25-0003994 E100 ELECTRICAL SITE PLAN.dwg [100] January 19, 2026 - 1:55 PM meira.mcdonnell

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CONSULTANT

PROJECT NAME
**WORCESTER
MCKEON ROAD FIRE
STATION
GENERATOR
UPGRADE**
80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE		
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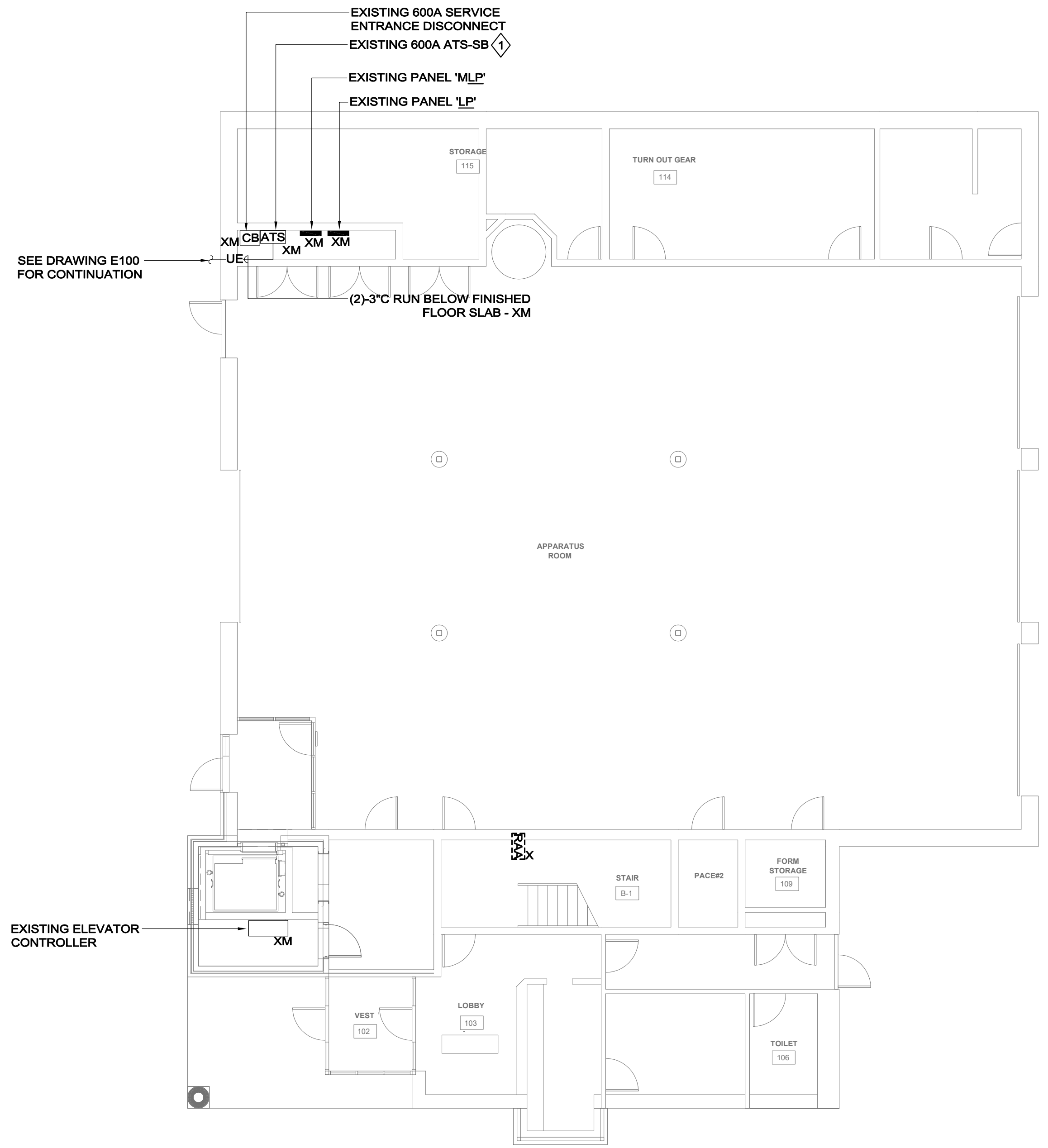
PROJECT NO.: 5440825-0003994
DESIGNED BY: MVM
CHECKED BY: KEG
DATE: 01.20.2026
SCALE: 1/8" = 1'-0"

SHEET NAME
**ELECTRICAL
GROUND FLOOR PLANS**

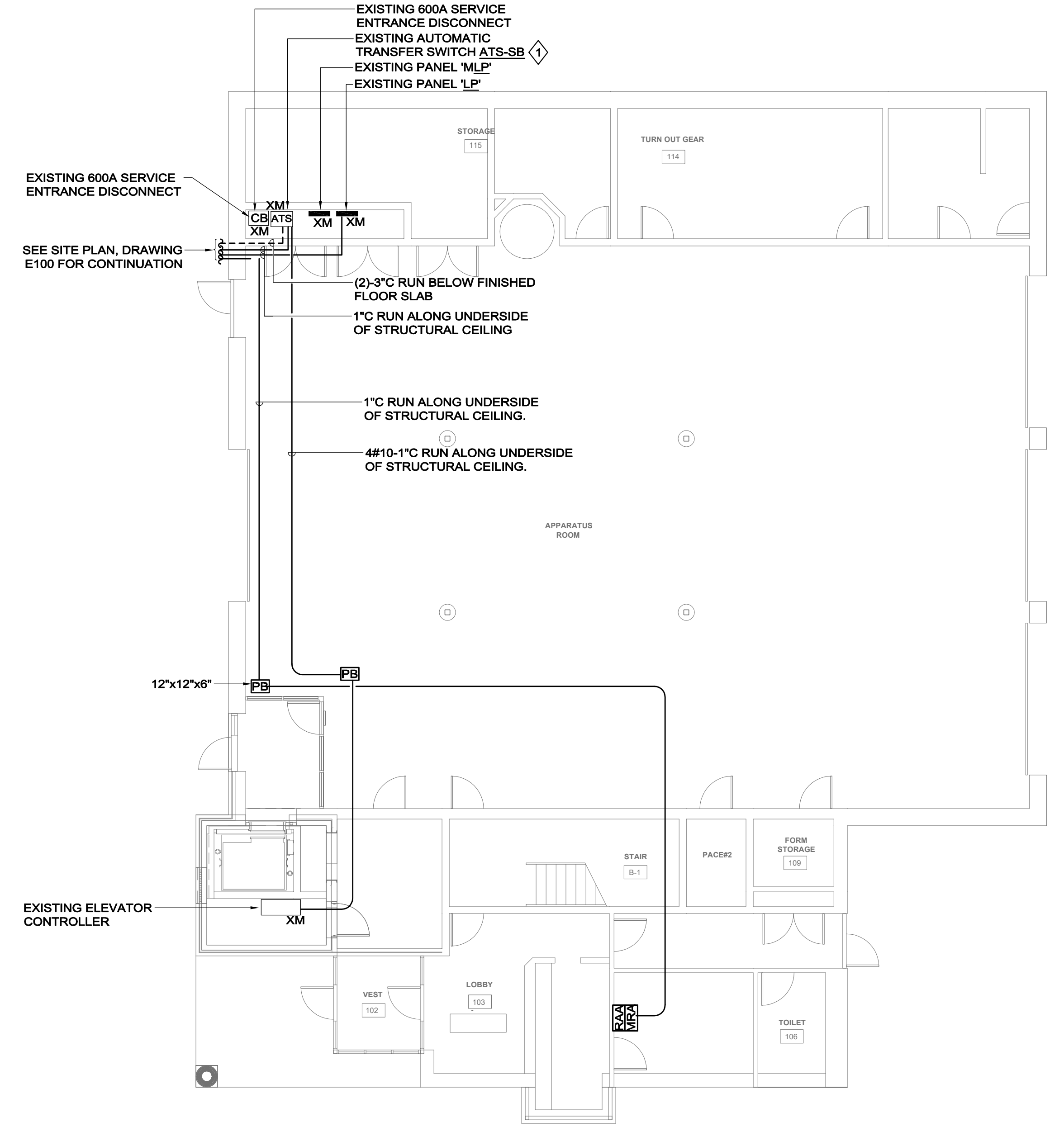
SHEET NUMBER
E200

- NOTES:**
- 1. REFER TO DRAWING E000 FOR LEGEND AND SYMBOLS.
 - 2. MAINTAIN CONTINUITY OF BRANCH CIRCUITRY ASSOCIATED WITH ALL EXISTING POWER DEVICES TO REMAIN.

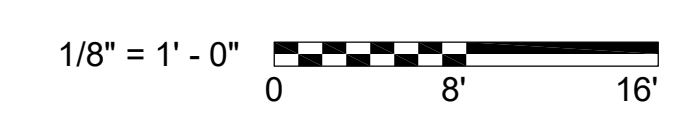
KEYNOTES	
◆	ADD ALTERNATE #1: EXISTING TRANSFER SWITCH SHALL BE DISCONNECTED/REMOVED AND REPLACED WITH NEW. REFER TO ONE-LINE DIAGRAM, DRAWING E301 FOR ADDITIONAL INFORMATION.
NOTES:	
1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.	



1 ELECTRICAL GROUND FLOOR DEMOLITION PLAN
E200 1/8" = 1'-0"



2 ELECTRICAL GROUND FLOOR NEW WORK PLAN
E200 1/8" = 1'-0"



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MCKEON ROAD FIRE
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80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE

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1	ISSUED FOR BID	1/20/26

PROJECT NO.: 540825-0003994

DESIGNED BY: MWM

CHECKED BY: KEG

DATE: 01.20.2026

SCALE: NTS

SHEET NAME

ELECTRICAL
ONE-LINE DIAGRAM
AND SCHEDULES

SHEET NUMBER

E300

EXISTING PANELBOARD SCHEDULE

PANEL: MLP		VOLTS: 208Y/120	MOUNT: SURFACE	GROUND BUS: Y				
MAIN: MLO		AMPS: 600	AIC: 10,000	ISOLATED GROUND BUS: N				
		PHWIRE: 3/4	LOC: 10,000	200% NEUTRAL: N				
CIR	AMPS/ POLES	DESCRIPTION OF LOAD	LOAD KVA	LOAD BY PHASE, KVA	LOAD KVA	DESCRIPTION OF LOAD	AMPS/ POLES	CIR
1			7.68	13.38	5.70	PANEL PP	60/3	2
3	100/3	PANEL LP1	7.68		5.70			4
5			7.68		5.70			6
7		SPACE		2.29	2.29			8
9		SPACE		2.29	2.29	HU-1	30/3	10
11		SPACE			2.29			12
13	20/1	GENERATOR OUTLET	1.52	3.48	1.96	DRYER	30/2	14
15		SPACE		1.96	1.96			16
17			2.29		3.81	OUTLET	20/1	18
19	30/3	AH-1	2.29	2.29		SPACE		20
21		SPACE	2.29			SPACE		22
23	20/1	GENERATOR OUTLET	1.52		1.52	SPACE		24
25		SPACE		0.00		SPACE		26
27		SPACE		0.00		SPACE		28
29		SPACE			0.00	SPACE		30
31			7.68	7.68		SPACE		32
33	100/3	AC CONDENSOR	7.68		7.68	SPACE		34
35			7.68		7.68	SPACE		36
37				0.00		SPACE		38
39	??/3	PANEL LP			0.00	SPACE		40
41					0.00	SPACE		42
43	??/3	PANEL LP2			0.00	SPACE		44
45					0.00	SPACE		46
47					0.00	SPACE		48
CONNECTED KVA BY PHASE				29.12	27.60	28.88	TOTAL CONNECTED KVA:	85.40
							DEMAND FACTOR:	1.00
							TOTAL DEMAND KVA:	85.40
							TOTAL DEMAND AMPERES:	237.05

REVISED PANELBOARD SCHEDULE

PANEL: MLP		VOLTS: 208Y/120	MOUNT: SURFACE	GROUND BUS: Y				
MAIN: MLO		AMPS: 600	AIC: 10,000	ISOLATED GROUND BUS: N				
		PHWIRE: 3/4	LOC: 10,000	200% NEUTRAL: N				
CIR	AMPS/ POLES	DESCRIPTION OF LOAD	LOAD KVA	LOAD BY PHASE, KVA	LOAD KVA	DESCRIPTION OF LOAD	AMPS/ POLES	CIR
1			7.68	13.38	5.70	PANEL PP	60/3	2
3	100/3	PANEL LP1	7.68		5.70			4
5			7.68		5.70			6
7	20/2	BATTERY CHARGER	1.00	3.29	2.29			8
9			1.00		2.29	HU-1	30/3	10
11	20/1	ENGINE BLOCK HEATER	1.50		3.79			12
13	20/1	GENERATOR OUTLET	1.52	3.48	1.96	DRYER	30/2	14
15	20/1	ENGINE BLOCK HEATER	1.50		3.46			16
17			2.29		3.81	OUTLET	20/1	18
19	30/3	AH-1	2.29	2.29		SPACE		20
21		SPACE	2.29		2.29	SPACE		22
23	20/1	GENERATOR OUTLET	1.52		1.52	SPACE		24
25	20/2	BATTERY CHARGER	1.00	1.00		SPACE		26
27			1.00		1.00	SPACE		28
29		SPACE			0.00	SPACE		30
31			7.68	7.68		SPACE		32
33	100/3	AC CONDENSOR	7.68		7.68	SPACE		34
35			7.68		7.68	SPACE		36
37				0.00		SPACE		38
39	??/3	PANEL LP			0.00	SPACE		40
41					0.00	SPACE		42
43	??/3	PANEL LP2			0.00	SPACE		44
45					0.00	SPACE		46
47					0.00	SPACE		48
CONNECTED KVA BY PHASE				31.12	31.10	30.18	TOTAL CONNECTED KVA:	92.40
							DEMAND FACTOR:	1.00
							TOTAL DEMAND KVA:	92.40
							TOTAL DEMAND AMPERES:	256.48

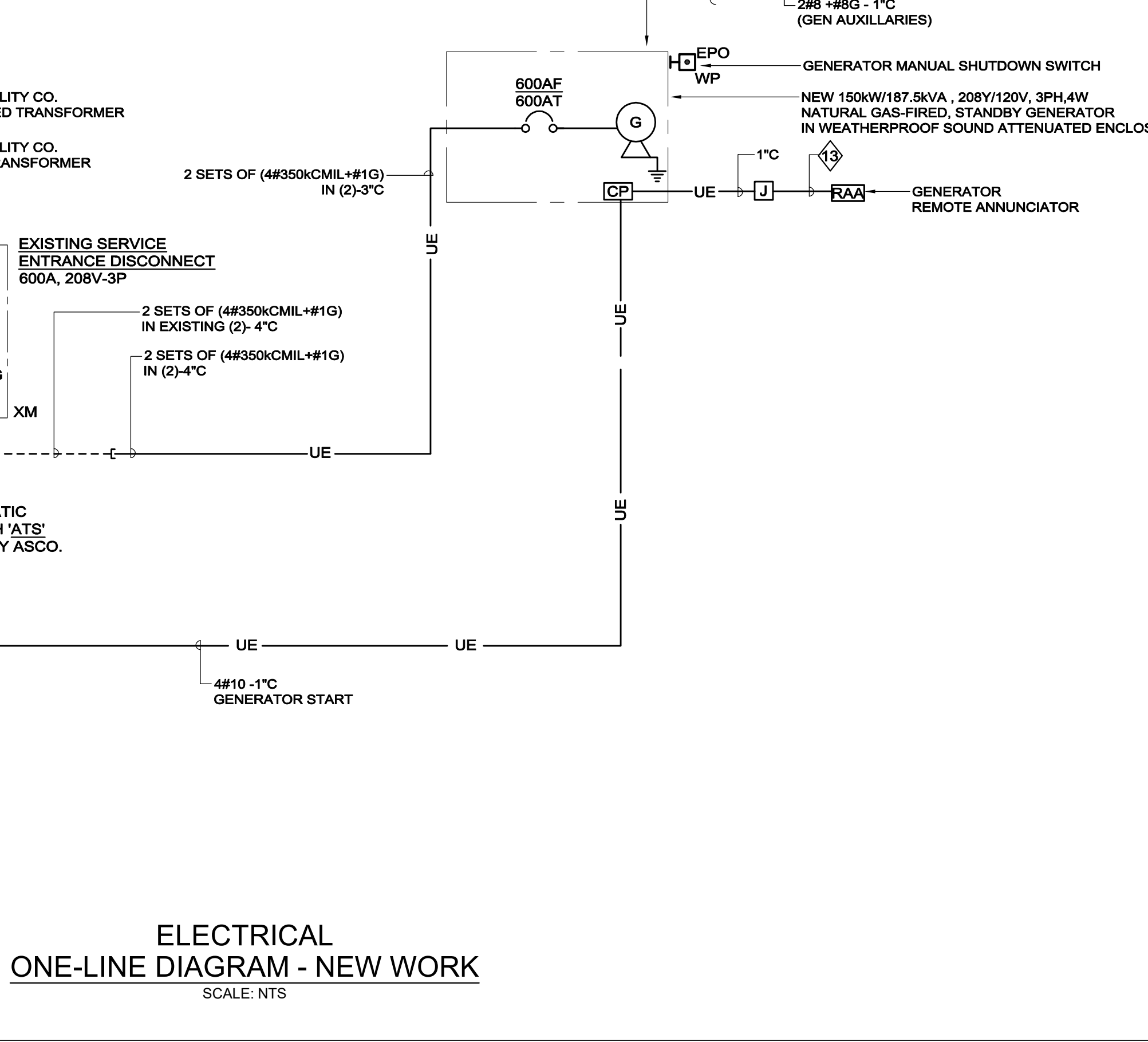
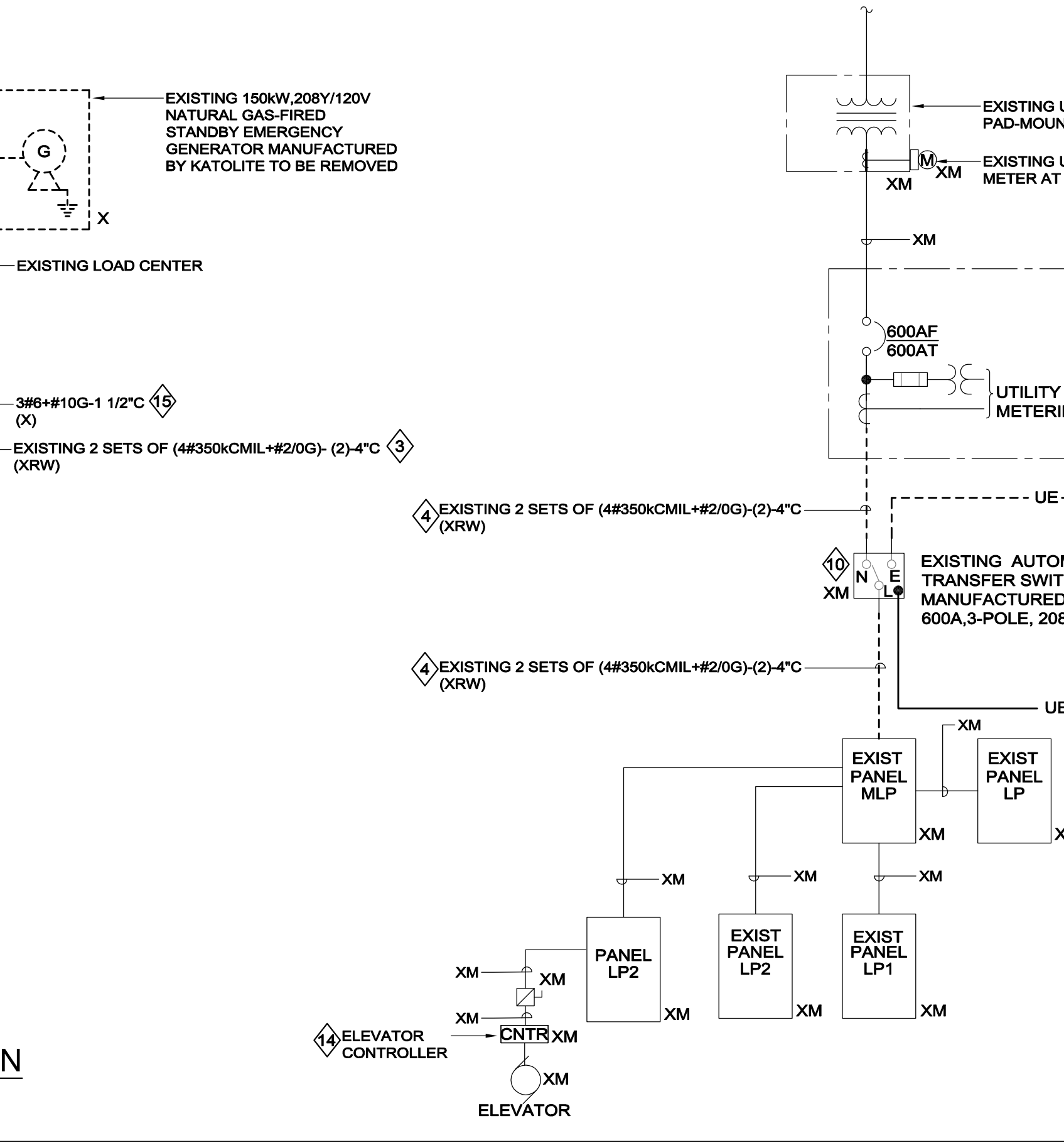
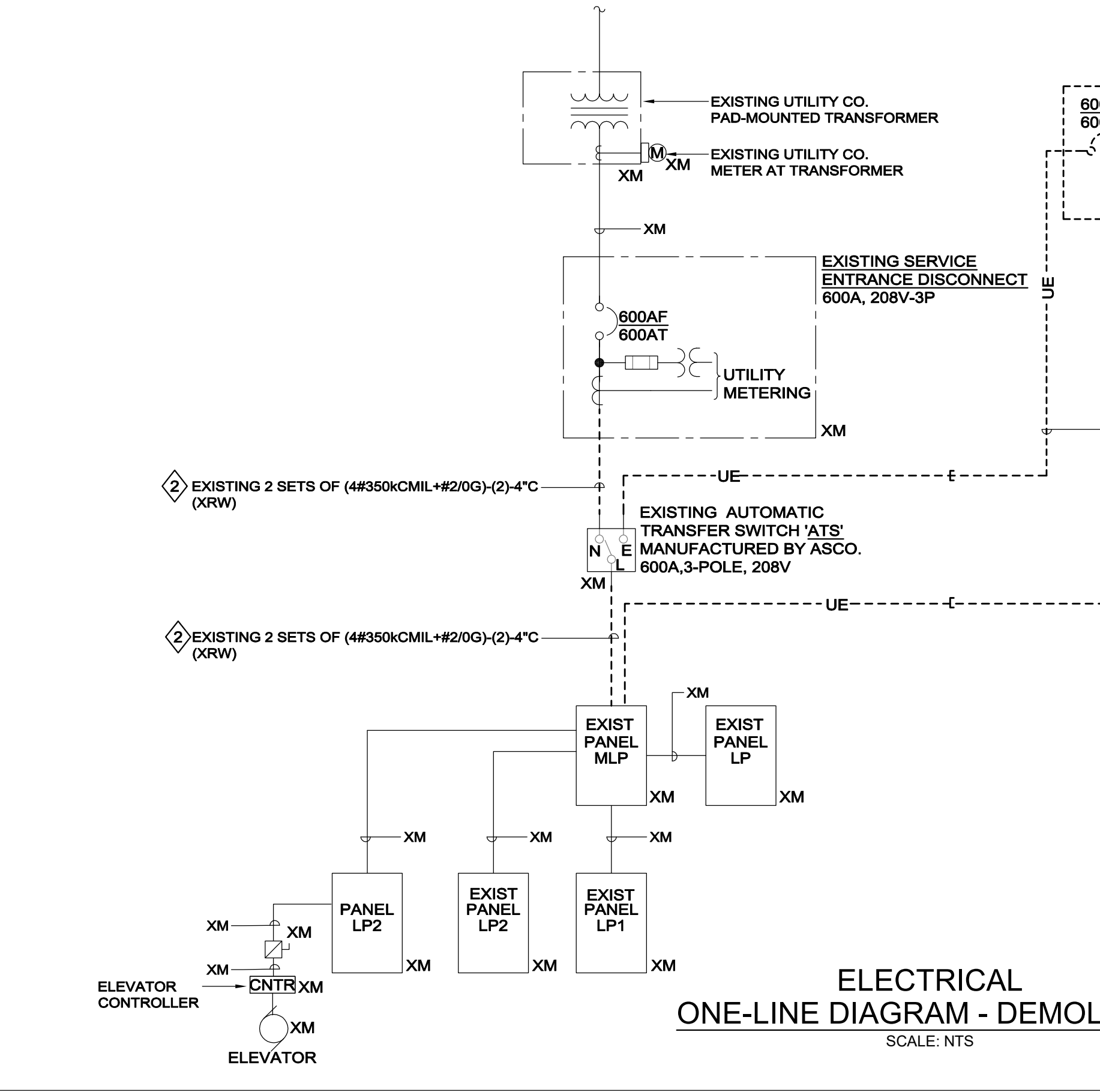
POWER RISER KEYNOTES

- EXISTING CONNECTED LOAD IS BASED ON CIRCUIT BREAKER RATING AT 80% UNLESS OTHERWISE NOTED.
- EXISTING FEEDERS SHALL BE DISCONNECTED, 'MADE SAFE' AND RETAINED FOR REUSE.
- EXISTING FEEDERS SHALL BE DISCONNECTED/REMOVED. RELATED CONDUIT SHALL BE CUT BACK AND REWORKED. REFER TO SITE PLAN, DRAWING E100 FOR ADDITIONAL INFORMATION.
- RECONNECT/EXTEND EXISTING FEEDER/CONDUIT TO NEW EQUIPMENT AS REQUIRED.
- PROVIDE NEW CIRCUIT BREAKER AS ILLUSTRATED. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING BREAKERS MANUFACTURED BY GE. PROVIDE TYPEWRITTEN UPDATED PANEL DIRECTORY AND RE-BALANCE LOADS TO WITHIN 10% PHASE TO PHASE UPON COMPLETION OF WORK.
- PROVIDE SIGNAL FROM THE ATS TO THE ELEVATOR CONTROLLER THAT (1) THE ELEVATOR IS ON EMERGENCY POWER AND (2) THE ELEVATOR IS READY TO TRANSFER FROM EMERGENCY TO NORMAL POWER. INTERCONNECT THE ATS AND THE ELEVATOR CONTROLLER WITH 4#10-1" C. ELEVATOR MAINTENANCE CONTRACTOR SHALL PROVIDE REPROGRAMMING OF ELEVATOR CONTROLLER.
- PROVIDE OVERCURRENT PROTECTION DEVICES WITH THE CHARACTERISTICS DEFINED (FRAME SIZE, TRIP TYPE, ETC.). THE SPECIFIED SHORT CIRCUIT ANALYSIS SHALL BE PERFORMED ON THE ENTIRE SYSTEM WITH BOTH THE UTILITY AND THE GENERATOR SERVING AS THE POWER SOURCE.
- NOT USED
- NOT USED
- PROVIDE NEW CIRCUIT BREAKER AS ILLUSTRATED. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING BREAKERS MANUFACTURED BY GE. PROVIDE TYPEWRITTEN UPDATED PANEL DIRECTORY AND RE-BALANCE LOADS TO WITHIN 10% PHASE TO PHASE UPON COMPLETION OF WORK.
- START CIRCUIT INTEGRITY MONITORING SHALL BE TESTED ON-SITE TO ENSURE PROPER OPERATION OF THE GENERATOR AND ANNUNCIATION ON THE LOCAL AND REMOTE ANNUNCIATOR BEFORE FINAL ACCEPTANCE OF THE SYSTEM.
- NOT USED.
- NOT USED.
- PROVIDE WIRING IN ACCORDANCE WITH GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE TIME DELAY PRE-SIGNAL FROM THE ATS TO THE ELEVATOR CONTROLLER TO DELAY ELEVATOR START UTILIZING THE LOAD DISCONNECT FEATURE IN THE ATS CONTROLLER. PROVIDE 4#10-1" C FROM ATS TO THE ELEVATOR CONTROLLER LOCATED AT THE 2ND FLOOR.
- EXISTING FEEDER SHALL BE DISCONNECTED/REMOVED BACK TO SOURCE. RELATED CONDUIT SHALL BE ABANDONED IN PLACE.

NOTES:
1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

POWER ONE-LINE DIAGRAM NOTES:

- REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES THAT MAY PERTAIN TO THIS DRAWING.
- THIS DRAWING IS INTENDED TO ILLUSTRATE MAJOR EQUIPMENT AND REQUIRED INTERCONNECTIONS. REFER TO THE FLOOR PLANS FOR EXACT LOCATIONS AND THE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS. REFER TO PANELBOARD SCHEDULES THIS DRAWING FOR ADDITIONAL INFORMATION.
- ALL SEPARATELY DERIVED SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NEC. BOND ALL ELECTRICALLY CONDUCTIVE MATERIALS SUCH AS METAL PIPING SYSTEMS AND STRUCTURAL STEEL TO THE GROUNDING SYSTEM. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- GENERATOR MANUAL SHUT-DOWN STATION PUSHBUTTON LOCATED ON EXTERIOR OF GENERATOR ENCLOSURE SHALL BE WIRED IN SERIES WITH EPO ON GCP AND BE CAPABLE TO BE LOCKABLE IN THE OPEN POSITION PER MEC 445.18(B) AND TO MEET REQUIREMENTS OF MEC 225.31 & 225.32 ("IN SIGHT FROM").
- PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVING, OR MAINTENANCE OF THE EQUIPMENT.
- EXTEND ALL RACEWAYS WITH LFMC TO GENERATOR ENCLOSURE CABINETS TO PROVIDE A COMPLETE RACEWAY SYSTEM.
- THE EMERGENCY DISTRIBUTION SYSTEM UPGRADES ARE A 'REPLACEMENT IN KIND' OF THE EXISTING SYSTEM. THE INSTALLATION DOES NOT CREATE A CODE VIOLATION OR INCREASE THE MAGNITUDE OF AN EXISTING VIOLATION IN ACCORDANCE WITH MASSACHUSETTS ELECTRIC CODE (AMENDMENTS) 527CMR 12.00 RULE 3.



W:\BUD3\Projects\2025\25-0003994 - Worcester Mckeeon Rd FS Generator V00 Drawings\00_Vol\25-0003994_E300-ELECTRICAL-ONE-LINE-DIAGRAM-SCHEDULES-AND-DETAILS.dwg [E300] January 19, 2026 - 1:06 PM marian.mcdonnell

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PROJECT
STATUS
DATE

THE PROFESSIONAL ENGINEER SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND WORK SHOWN ON THIS SHEET. ALL CHANGES, NOTICES AND OTHER DOCUMENTS NOT EXHIBITED TO THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITED TO THIS SEAL.

CLIENT

CONSULTANT

PROJECT NAME

WORCESTER FIRE DEPARTMENT MCKEON ROAD FIRE STATION GENERATOR UPGRADE

80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE		
#	DESCRIPTION	DATE
1	ISSUED FOR BID	1/20/26

PROJECT NO.: 5440225-0003994
 DESIGNED BY: MWM
 CHECKED BY: KEG
 DATE: 01.20.2026
 SCALE: NTS

SHEET NAME
**ELECTRICAL
 ONE-LINE DIAGRAM
 & SCHEDULES
 ADD ALTERNATES**

SHEET NUMBER

E301

EXISTING PANELBOARD SCHEDULE

PANEL: MLP		VOLTS: 208Y/120	MOUNT: SURFACE	GROUND BUS: Y				
MAIN: MLO		AMPS: 600	AIC: 10,000	ISOLATED GROUND BUS: N				
		PHWIRE: 3/4	LOC: 200% NEUTRAL	200% NEUTRAL: N				
CIR	AMPS/POLES	DESCRIPTION OF LOAD	LOAD KVA	LOAD BY PHASE, KVA	LOAD KVA	DESCRIPTION OF LOAD	AMPS/POLES	CIR
1			7.68	13.38	5.70			2
3	100/3	PANEL LP1	7.68	13.38	5.70	PANEL PP	60/3	4
5			7.68		5.70			6
7		SPACE		2.29	2.29			8
9		SPACE		2.29	2.29	HU-1	30/3	10
11		SPACE			2.29			12
13	20/1	GENERATOR OUTLET	1.52	3.48	1.96	DRYER	30/2	14
15		SPACE		1.96	1.96			16
17			2.29		3.81	OUTLET	20/1	18
19	30/3	AH-1	2.29	2.29				20
21		SPACE	2.29					22
23	20/1	GENERATOR OUTLET	1.52		1.52			24
25		SPACE		0.00				26
27		SPACE		0.00				28
29		SPACE		0.00				30
31			7.68	7.68				32
33	100/3	AC CONDENSOR	7.68		7.68			34
35			7.68		7.68			36
37				0.00				38
39	??/3	PANEL LP			0.00			40
41					0.00			42
43	??/3	PANEL LP2			0.00			44
45					0.00			46
47					0.00			48
CONNECTED KVA BY PHASE				29.12	27.60	28.88	TOTAL CONNECTED KVA:	85.40
							DEMAND FACTOR:	1.00
							TOTAL DEMAND KVA:	85.40
							TOTAL DEMAND AMPERES:	237.05

REVISED PANELBOARD SCHEDULE

PANEL: MLP		VOLTS: 208Y/120	MOUNT: SURFACE	GROUND BUS: Y				
MAIN: MLO		AMPS: 600	AIC: 10,000	ISOLATED GROUND BUS: N				
		PHWIRE: 3/4	LOC: 200% NEUTRAL	200% NEUTRAL: N				
CIR	AMPS/POLES	DESCRIPTION OF LOAD	LOAD KVA	LOAD BY PHASE, KVA	LOAD KVA	DESCRIPTION OF LOAD	AMPS/POLES	CIR
1			7.68	13.38	5.70			2
3	100/3	PANEL LP1	7.68	13.38	5.70	PANEL PP	60/3	4
5			7.68		5.70			6
7	20/2	BATTERY CHARGER	1.00	3.29	2.29			8
9			1.00		3.29			10
11	20/1	ENGINE BLOCK HEATER	1.50		3.79			12
13	20/1	GENERATOR OUTLET	1.52	3.48	1.96	DRYER	30/2	14
15	20/1	ENGINE BLOCK HEATER	1.50		3.46			16
17			2.29		3.81	OUTLET	20/1	18
19	30/3	AH-1	2.29	2.29				20
21		SPACE	2.29		2.29			22
23	20/1	GENERATOR OUTLET	1.52		1.52			24
25	20/2	BATTERY CHARGER	1.00	1.00				26
27			1.00		1.00			28
29		SPACE			0.00			30
31			7.68	7.68				32
33	100/3	AC CONDENSOR	7.68		7.68			34
35			7.68		7.68			36
37				0.00				38
39	??/3	PANEL LP			0.00			40
41					0.00			42
43	??/3	PANEL LP2			0.00			44
45					0.00			46
47					0.00			48
CONNECTED KVA BY PHASE				31.12	31.10	30.18	TOTAL CONNECTED KVA:	92.40
							DEMAND FACTOR:	1.00
							TOTAL DEMAND KVA:	92.40
							TOTAL DEMAND AMPERES:	256.48

POWER RISER KEYNOTES

- EXISTING CONNECTED LOAD IS BASED ON CIRCUIT BREAKER RATING AT 80% UNLESS OTHERWISE NOTED.
- EXISTING FEEDERS SHALL BE DISCONNECTED, 'MADE SAFE' AND RETAINED FOR REUSE.
- EXISTING FEEDERS SHALL BE DISCONNECTED/REMOVED. RELATED CONDUIT SHALL BE CUT BACK AND REWORKED. REFER TO SITE PLAN, DRAWING E100 FOR ADDITIONAL INFORMATION.
- RECONNECT/EXTEND EXISTING FEEDER/CONDUIT TO NEW EQUIPMENT AS REQUIRED.
- PROVIDE NEW CIRCUIT BREAKER AS ILLUSTRATED. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING BREAKERS MANUFACTURED BY GE. PROVIDE TYPEWRITTEN UPDATED PANEL DIRECTORY AND RE-BALANCE LOADS TO WITHIN 10% PHASE TO PHASE UPON COMPLETION OF WORK.
- PROVIDE SIGNAL FROM THE ATS TO THE ELEVATOR CONTROLLER THAT (1) THE ELEVATOR IS ON EMERGENCY POWER AND (2) THE ELEVATOR IS READY TO TRANSFER FROM EMERGENCY TO NORMAL POWER. ATS SHALL BE PROVIDED WITH THE (2) REQUIRED AUXILIARY CONTACTS. INTERCONNECT THE ATS AND THE ELEVATOR CONTROLLER WITH #10-1/2" C. ELEVATOR MAINTENANCE CONTRACTOR SHALL PROVIDE REPROGRAMMING OF ELEVATOR CONTROLLER AS REQUIRED FOR INSTALLATION OF NEW AUTOMATIC TRANSFER SWITCH.
- PROVIDE OVERCURRENT PROTECTION DEVICES WITH THE CHARACTERISTICS DEFINED (FRAME SIZE, TRIP TYPE, ETC.). THE SPECIFIED SHORT CIRCUIT ANALYSIS SHALL BE PERFORMED ON THE ENTIRE SYSTEM WITH BOTH THE UTILITY AND THE GENERATOR SERVING AS THE POWER SOURCE.
- TRYSSTAR MODEL #GDS SERIES OR EQUAL - 600A, 208Y/120V-3PH-4W-65KAIC RATED WITH PHASE ROTATION, PADLOCKABLE STAINLESS STEEL NEMA 4X HOUSING AND THE FOLLOWING OPTIONS:
 1. TWO-WIRE GENERATOR AUTO START.
 2. BATTERY CHARGER RECEPTACLE - 250V-20A-L6-20R.
 3. ENGINE BLOCK HEATER RECEPTACLE - 125V-20A-L5-20
 4. STRIP HEATER & THERMOSTAT.
 PHASE ROTATION AND BONDING REQUIREMENTS SHALL BE PERMANENTLY MARKED ON INTERIOR OF ENCLOSURE.
 PROVIDE WRITTEN SEQUENCE OF OPERATION FOR TEMPORARY GENERATOR TO BE POSTED IN EMERGENCY ELECTRIC ROOM AND ON THE INTERIOR OF THE TEMPORARY DOCKING STATION ENCLOSURE. TEMPORARY GENERATOR CONNECTION REQUIRED PER 2023 NEC ARTICLE 700.3(F). PROVIDE A PERMANENT LABEL THAT IDENTIFIES THE SYSTEM VOLTAGE, MAXIMUM AMPERAGE, SHORT CIRCUIT CURRENT RATING OF THE LOAD SIDE OF EQUIPMENT INSTALLED AND UNGROUNDED CONDUCTORS. IDENTIFICATION IN ACCORDANCE WITH 210.5, PER NEC ARTICLE 700.8(F)(7).
- NON AUTOMATIC TRANSFER SWITCH IN WEATHERPROOF NEMA 4X STAINLESS STEEL SECURE ENCLOSURE AS MANUFACTURED BY ASCO MODEL # J-03MTS-B-3-0600-C-44G-170EP-V OR APPROVED EQUAL. PROVIDE WITH INTEGRAL STRIP HEATER AND CONNECTIVITY MODULE FOR REMOTE MONITORING. AS REQUIRED PER 2023 NEC ARTICLE 700.3(F)(5)
- PROVIDE NEW CIRCUIT BREAKER AS ILLUSTRATED. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING BREAKERS MANUFACTURED BY GE. PROVIDE TYPEWRITTEN UPDATED PANEL DIRECTORY AND RE-BALANCE LOADS TO WITHIN 10% PHASE TO PHASE UPON COMPLETION OF WORK.
- START CIRCUIT INTEGRITY MONITORING AND TEMPORARY GENERATOR TRANSFER SWITCH STATUS MONITORING SHALL BE TESTED ON-SITE TO ENSURE PROPER OPERATION OF THE GENERATOR AND ANNUNCIATION ON THE LOCAL AND REMOTE ANNUNCIATORS BEFORE FINAL ACCEPTANCE OF THE SYSTEM.
- MANUAL TRANSFER SWITCH REMOTE ANNUNCIATOR PANEL SHALL BE MANUFACTURED BY ASCO MODEL #5705 WITH #5161 CONNECTIVITY MODULE FOR ETHERNET TO RS485 CONVERSION. MONITORING REQUIRED PER 2023 NEC ARTICLE 700.3(F)(5).
- PROVIDE BELDEN #2413 UTP ETHERNET CABLE AT END OF RUN FROM CONNECTIVITY MODULE TO EQUIPMENT/ANNUNCIATOR FOR RS485 TO ETHERNET CONVERSION.
- PROVIDE WIRING IN ACCORDANCE WITH GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE TIME DELAY PRE-SIGNAL FROM THE ATS TO THE ELEVATOR CONTROLLER TO DELAY ELEVATOR START UTILIZING THE LOAD DISCONNECT FEATURE IN THE ATS CONTROLLER. PROVIDE #10-1" FROM ATS TO THE ELEVATOR CONTROLLER LOCATED AT THE 2ND FLOOR.
- EXISTING FEEDER SHALL BE DISCONNECTED/REMOVED BACK TO SOURCE. RELATED CONDUIT SHALL BE ABANDONED IN PLACE.

NOTES:
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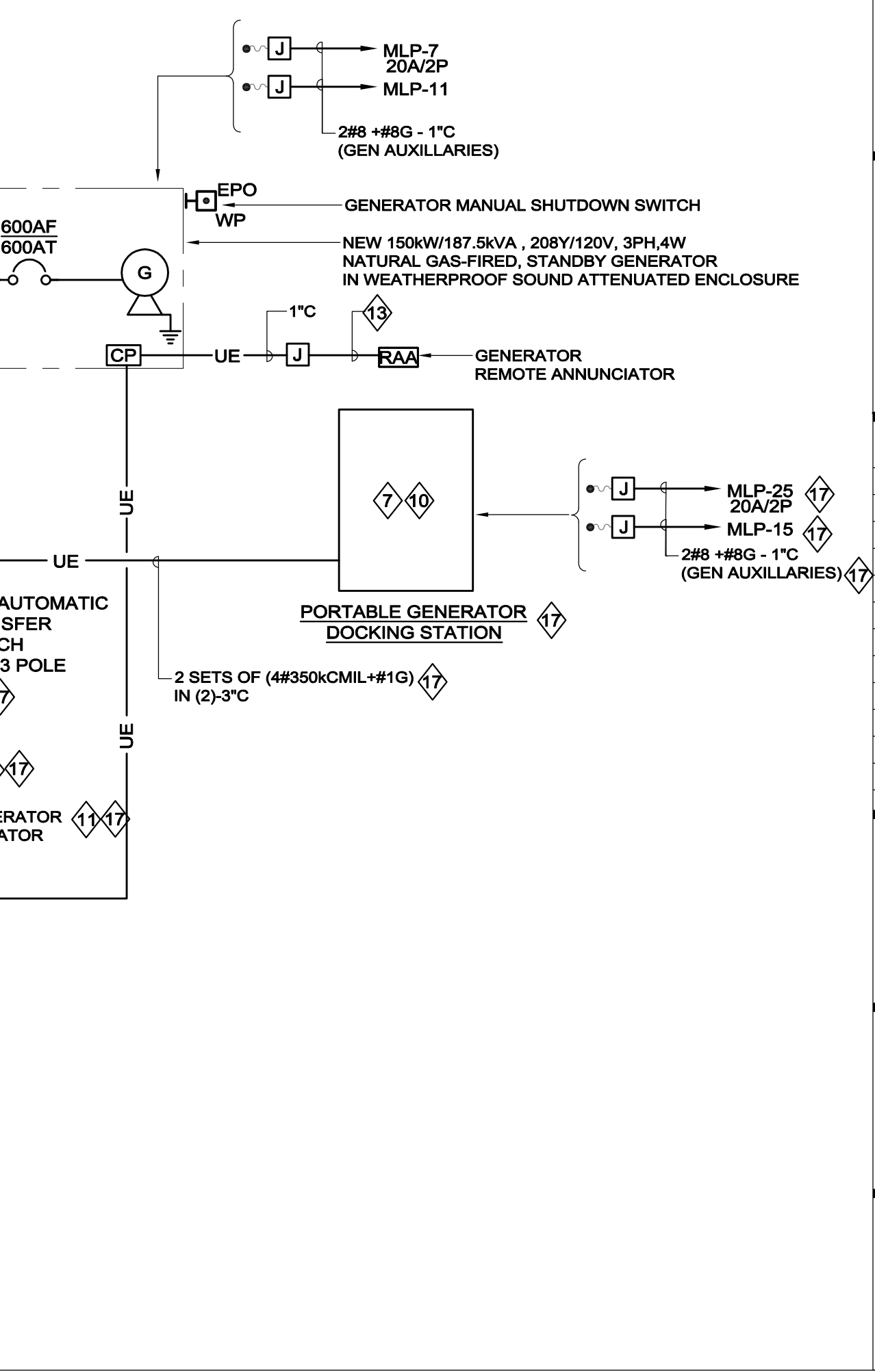
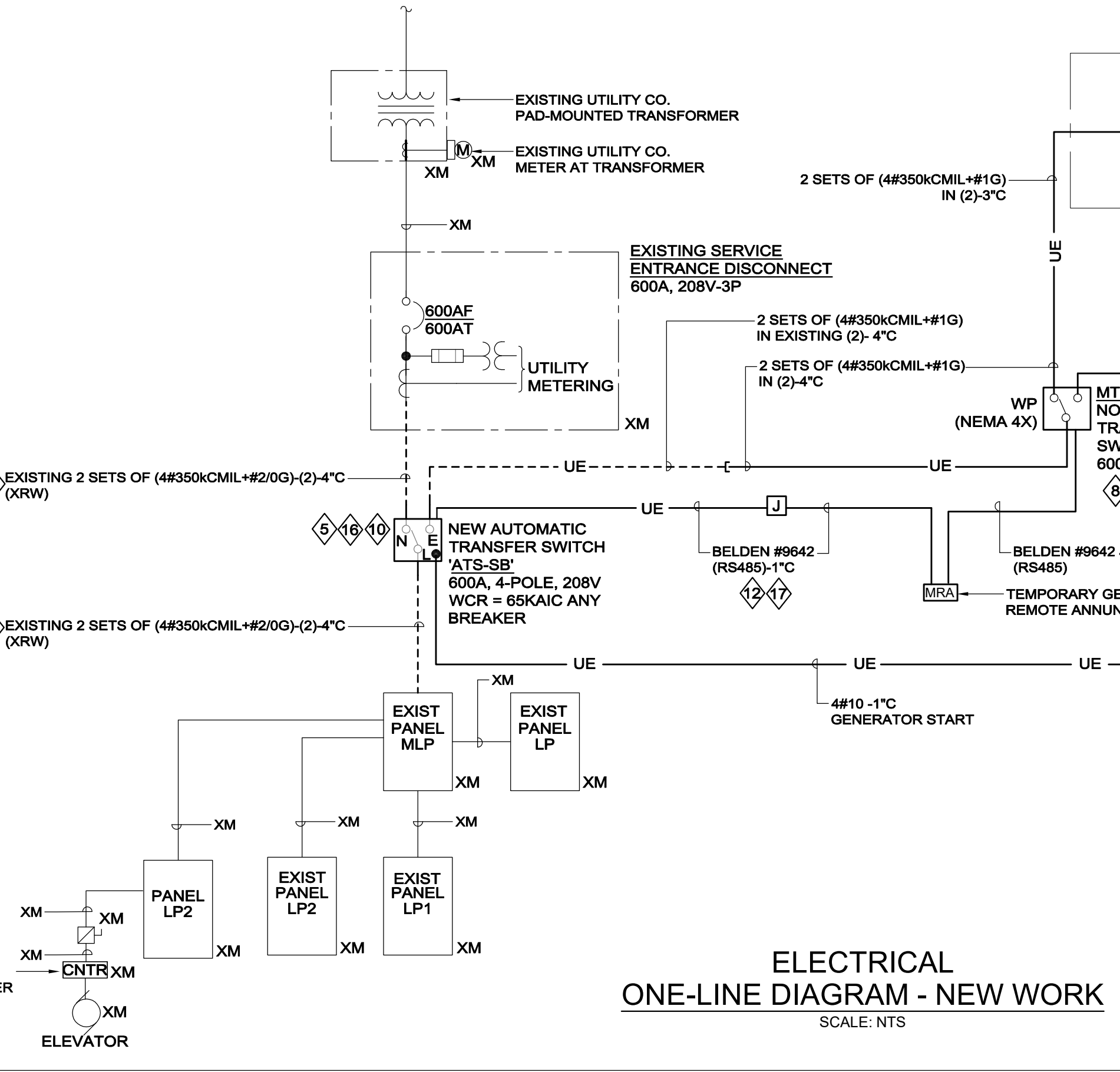
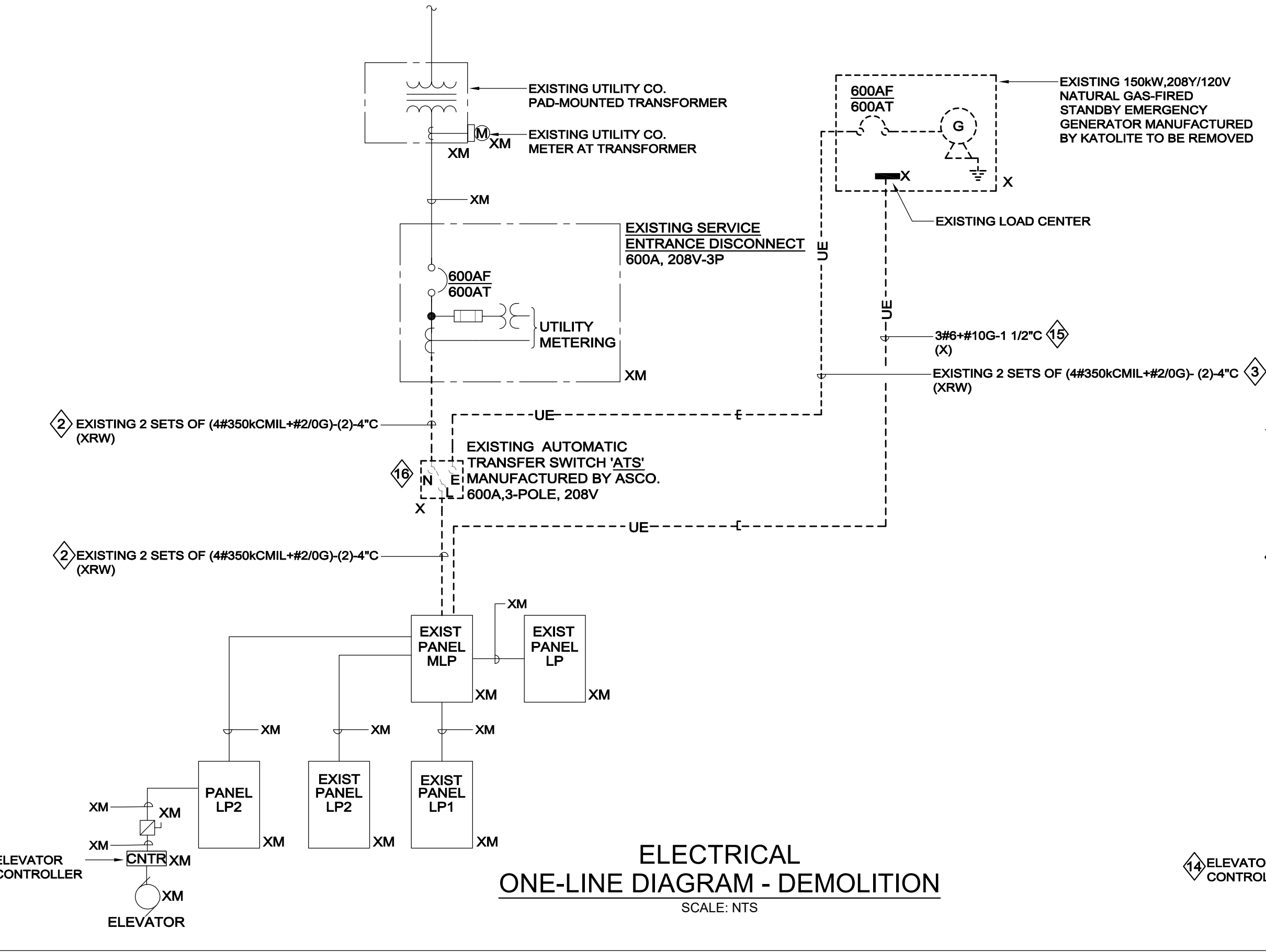
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- ALL SEPARATELY DERIVED SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NEC. BOND ALL ELECTRICALLY CONDUCTIVE MATERIALS SUCH AS METAL PIPING SYSTEMS AND STRUCTURAL STEEL TO THE GROUNDING SYSTEM. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- GENERATOR MANUAL SHUT-DOWN STATION PUSHBUTTON LOCATED ON EXTERIOR OF GENERATOR ENCLOSURE SHALL BE WIRED IN SERIES WITH EPO ON GCP AND BE CAPABLE TO BE LOCKABLE IN THE OPEN POSITION PER MEC 445.18(B) AND TO MEET REQUIREMENTS OF MEC 225.31 & 225.32 ("IN SIGHT FROM").
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- EXTEND ALL RACEWAYS WITH LFMC TO GENERATOR ENCLOSURE CABINETS TO PROVIDE A COMPLETE RACEWAY SYSTEM.
- THE EMERGENCY DISTRIBUTION SYSTEM UPGRADES ARE A 'REPLACEMENT IN KIND' OF THE EXISTING SYSTEM. THE INSTALLATION DOES NOT CREATE A CODE VIOLATION OR INCREASE THE MAGNITUDE OF AN EXISTING VIOLATION IN ACCORDANCE WITH MASSACHUSETTS ELECTRIC CODE (AMENDMENTS) 527CMR 12.00 RULE 3.

KEYNOTES

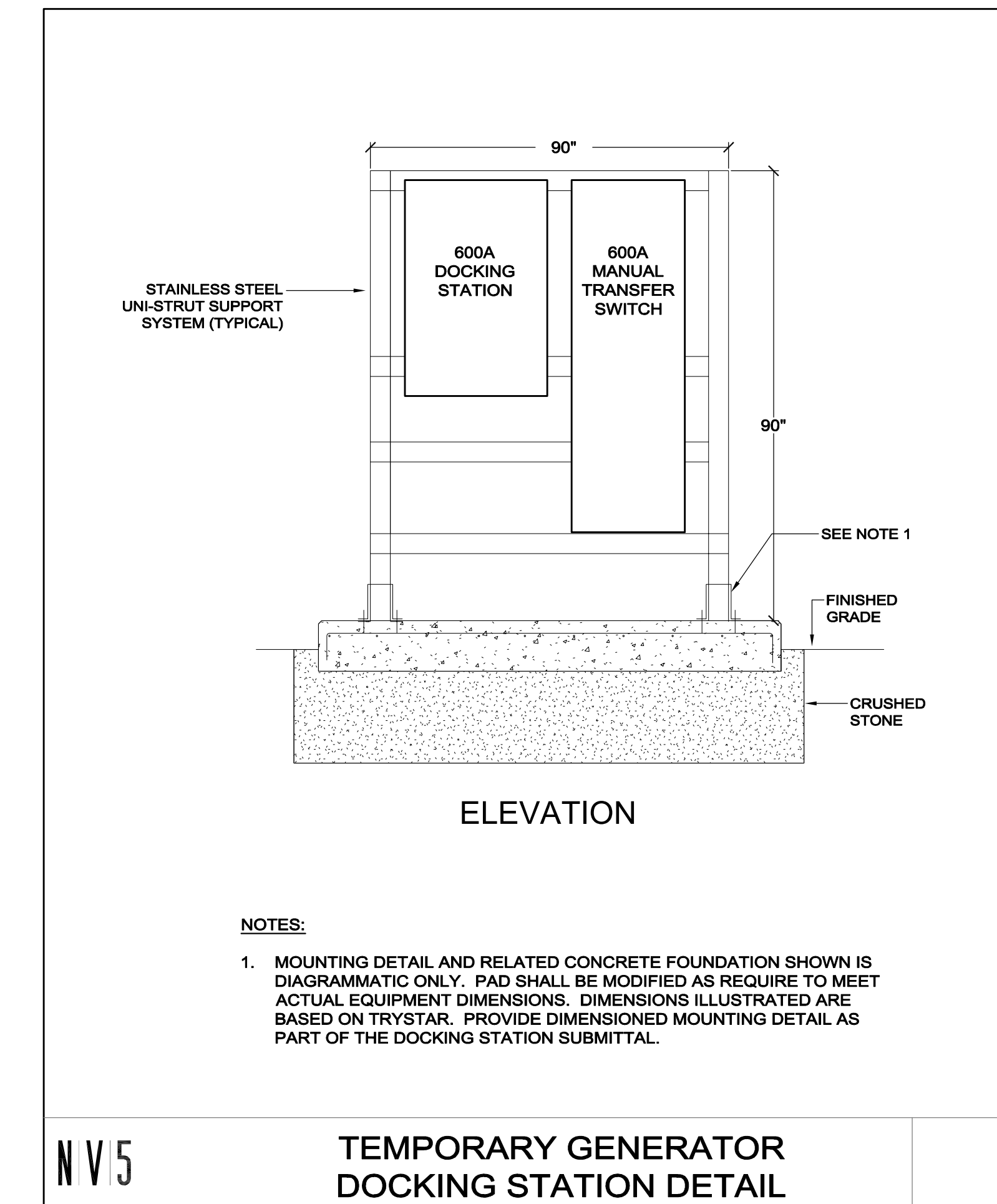
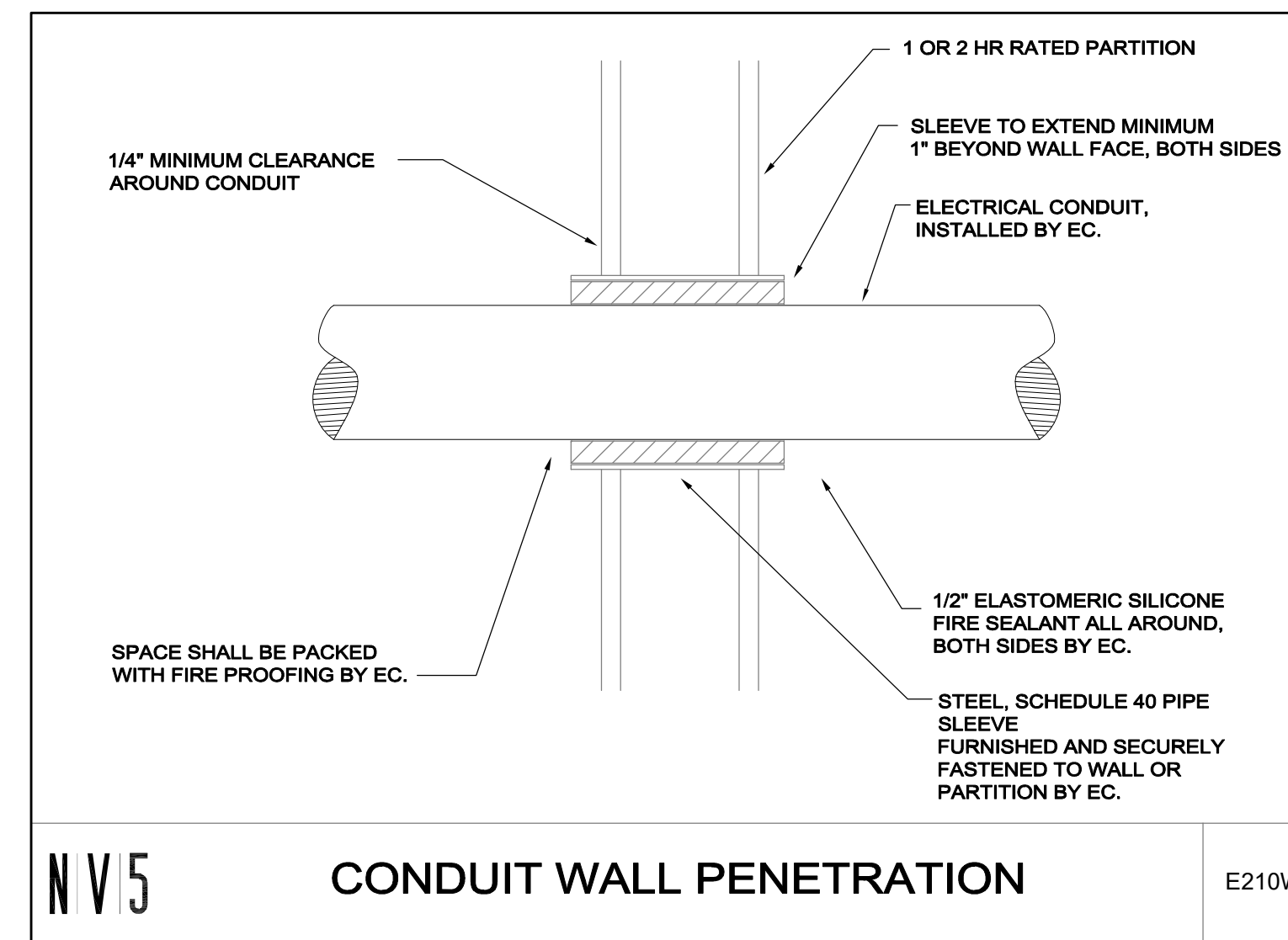
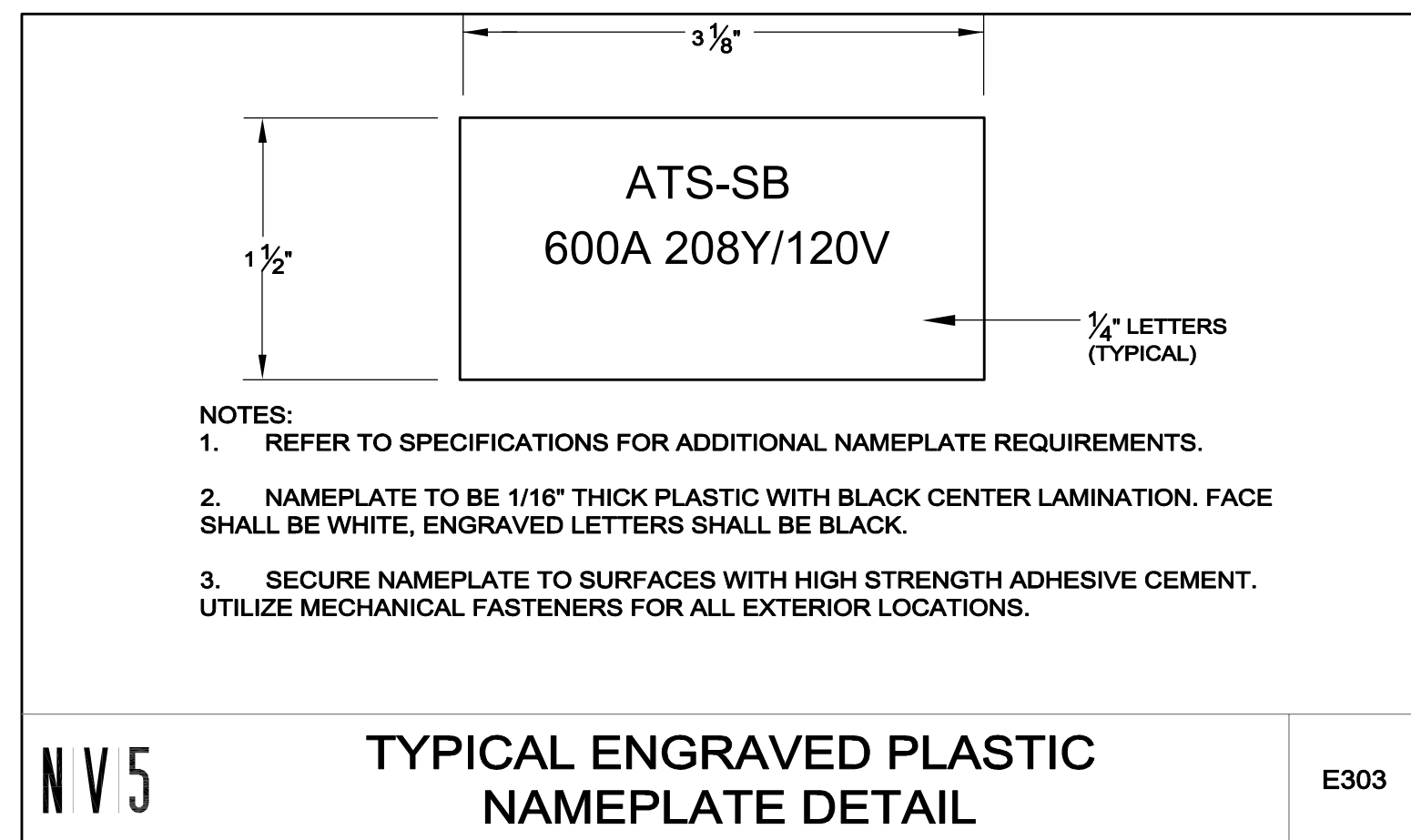
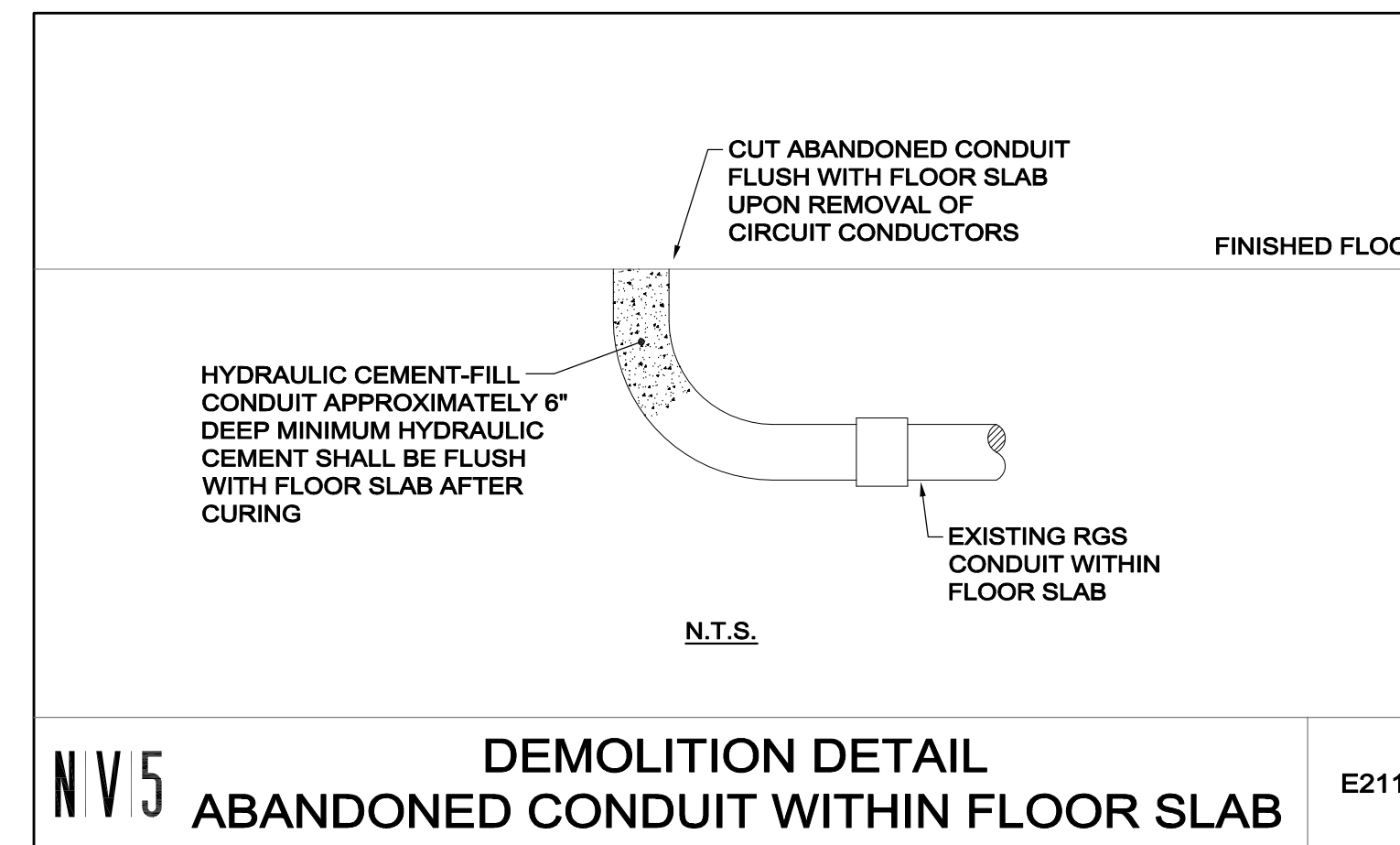
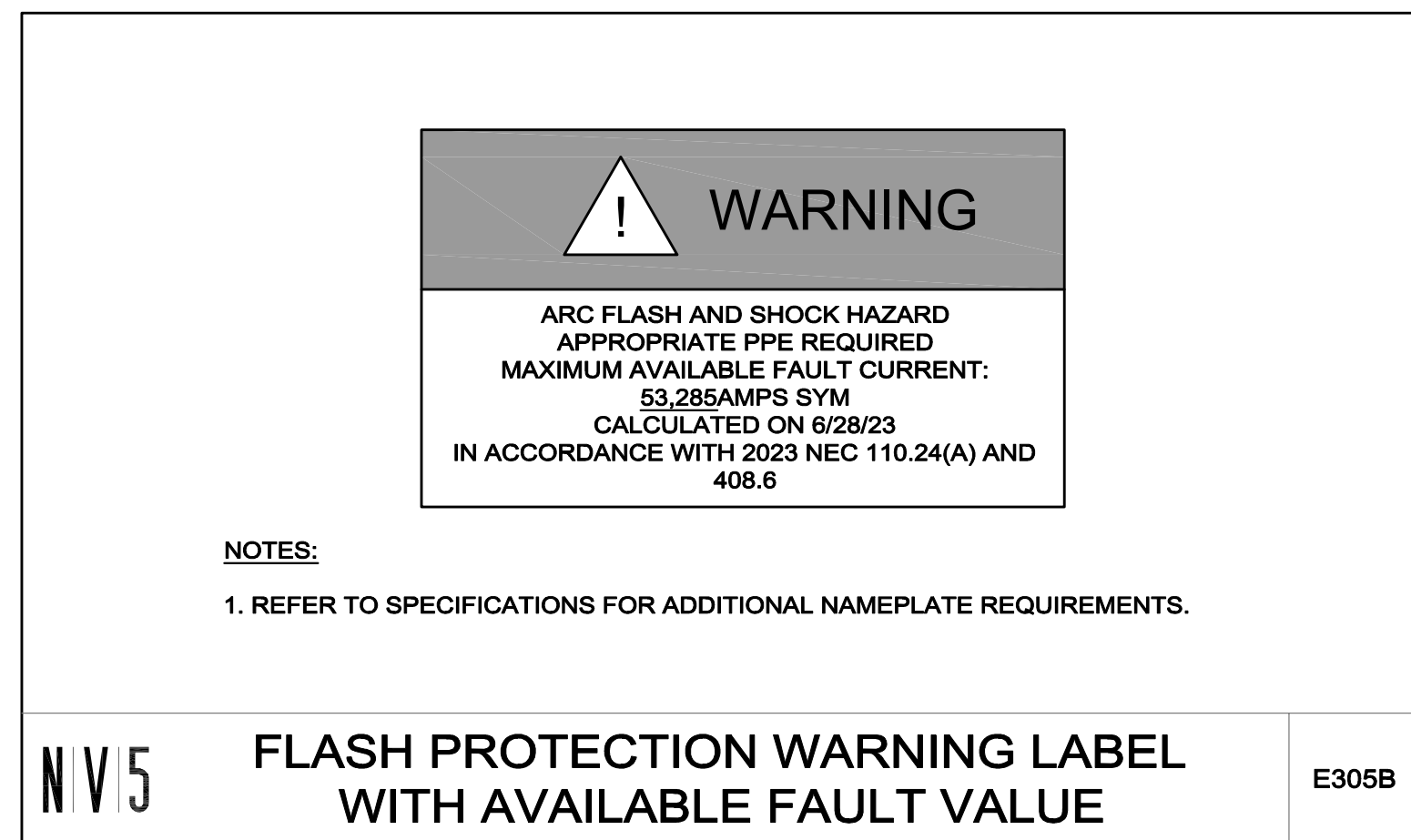
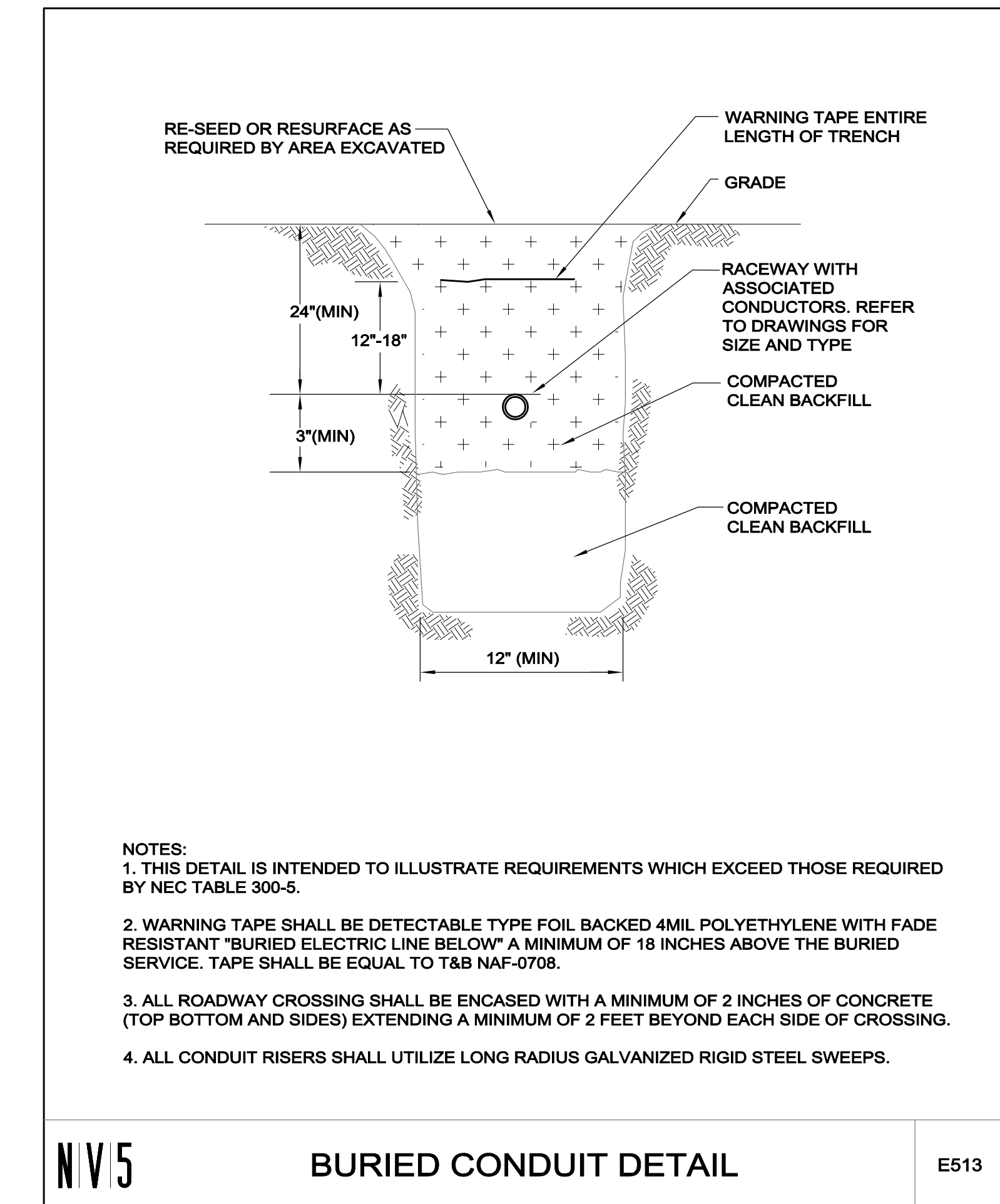
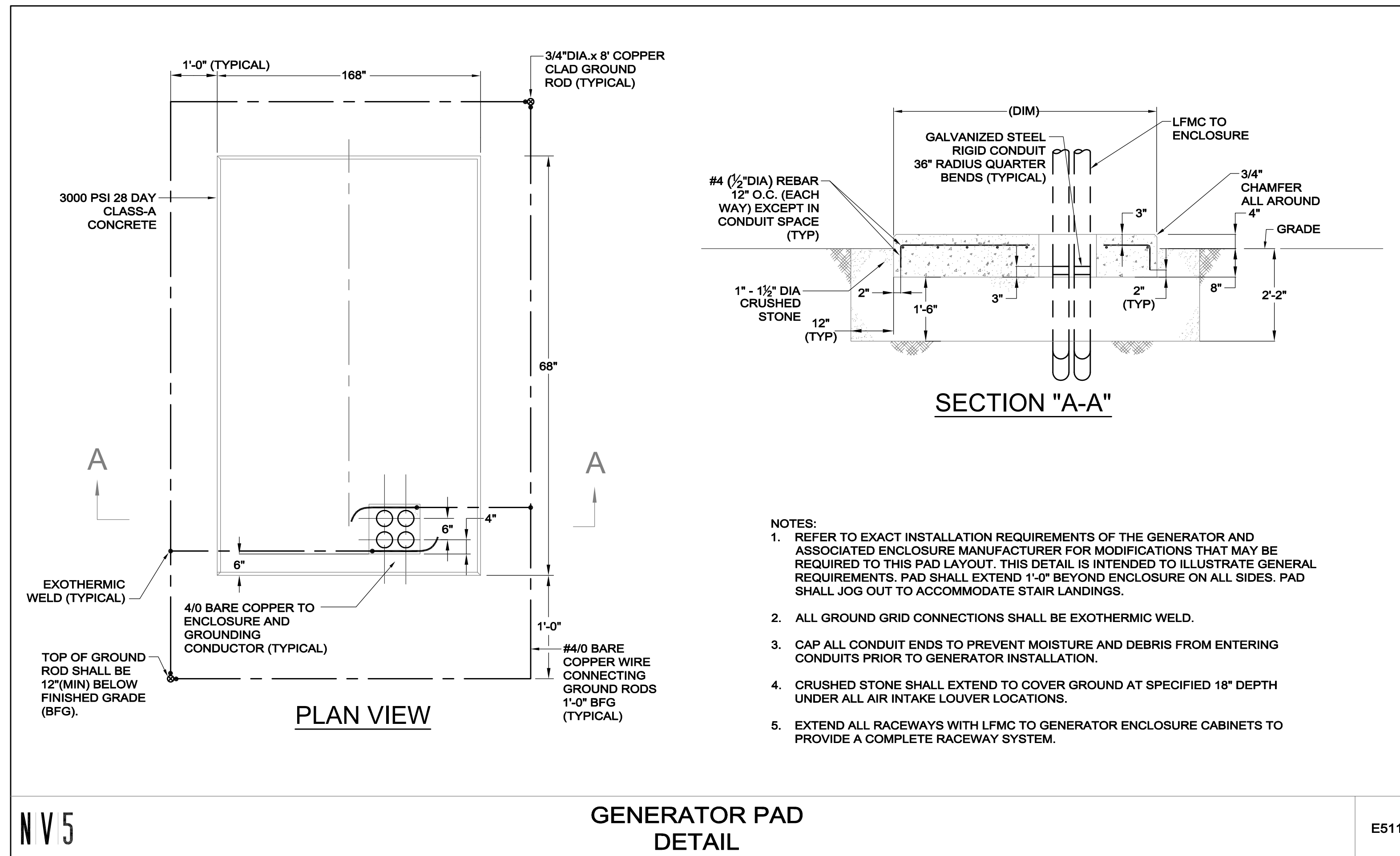
16	NEW AUTOMATIC TRANSFER SWITCH - SCOPE OF WORK SHALL BE CARRIED UNDER ADD ALTERNATE #1.
17	NEW PORTABLE GENERATOR DOCKING STATION - SCOPE OF WORK SHALL BE CARRIED UNDER ADD ALTERNATE #2.

NOTES:
 1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.



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W:\BLD3\Projects\2025\25-0002884 - Worcester Mckean Rd FS Generator\500 Drawings\500 Drawings\25-0002884 E400 ELECTRICAL DETAILS.dwg [E400] January 19, 2026 - 1:06 PM maria.mcdermott



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CLIENT

CONSULTANT

PROJECT NAME

WORCESTER FIRE DEPARTMENT

**WORCESTER
MCKEON ROAD FIRE
STATION
GENERATOR
UPGRADE**

80 MCKEON RD,
WORCESTER, MA 01607

KEY PLAN

REVISION/ISSUANCE		
#	DESCRIPTION	DATE
1	ISSUED FOR BID	1/20/26

PROJECT NO.: 544025-000394

DESIGNED BY: MWM

CHECKED BY: KEG

DATE: 01.20.2026

SCALE: NTS

SHEET NAME

**ELECTRICAL
DETAILS**

SHEET NUMBER

E400