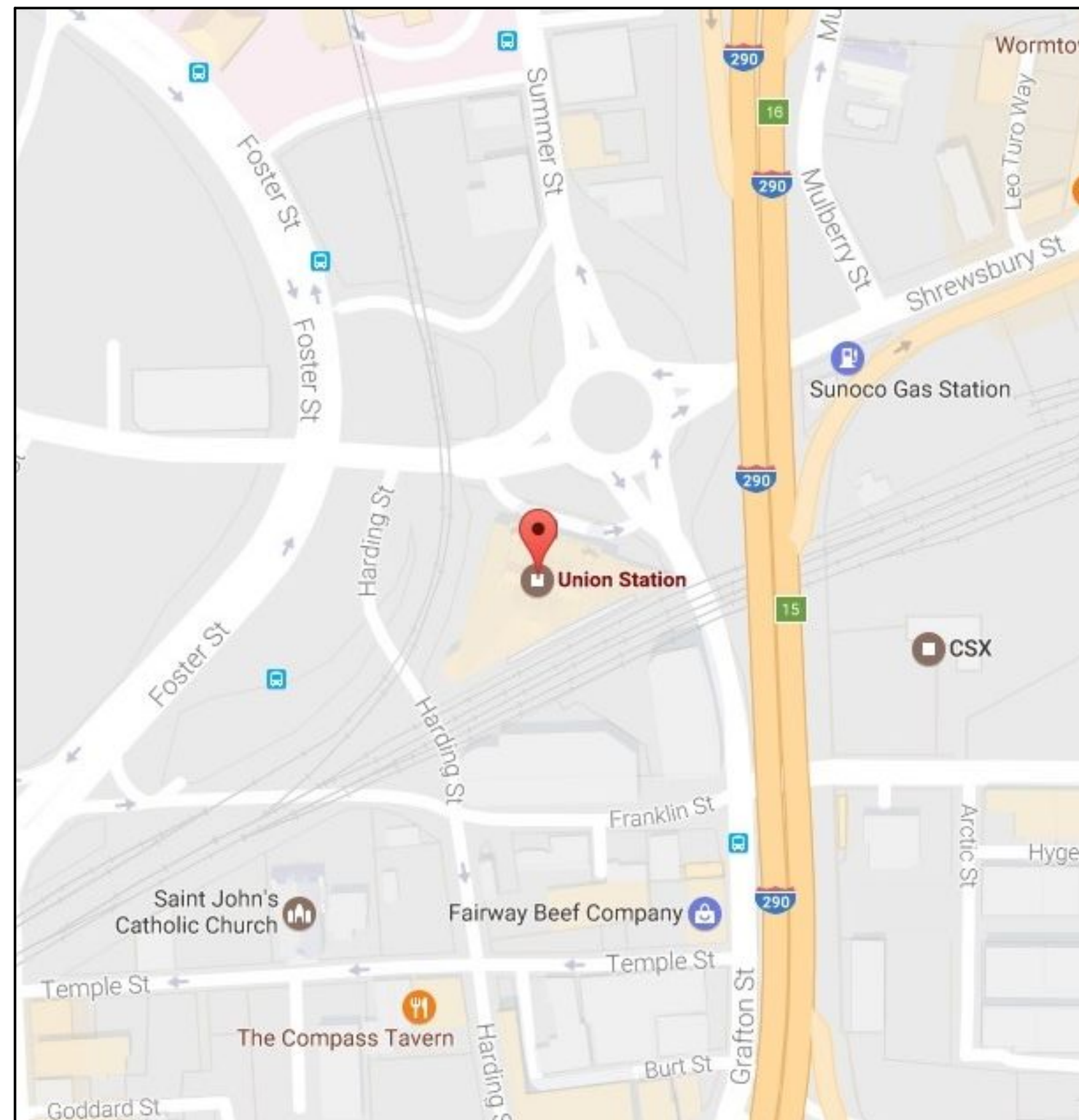


GENERATOR REPLACEMENT UNION STATION

2 WASHINGTON SQUARE, WORCESTER, MA

BID SET
MAY 2026

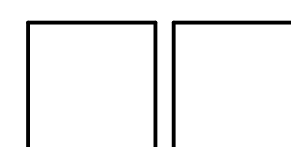


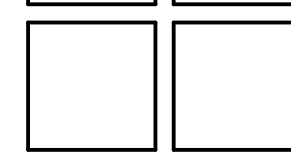
LOCUS MAP - NOT TO SCALE



LOCATION PHOTO

ARCHITECT:

 **NAULT ARCHITECTS, INC.**

 71 HOPE AVENUE
WORCESTER, MA 01603

TEL: (508) 755-6134
ADMIN@NAULTARCHITECTS.COM

STRUCTURAL ENGINEER:
JOHNSON STRUCTURAL
ENGINEERING, INC.
101 HUNTOON MEMORIAL
HIGHWAY (RT.56)
ROCHDALE, MA 01542
PHONE: 508.892.4884

ELECTRICAL ENGINEER:
HALLAM ICS
575 WEST STREET, SUITE 220
MANSFIELD, MA 02048
PHONE: (508) 821-9759

LIST OF DRAWINGS

T1 - COVER SHEET

S1 - GENERATOR PLATFORM
FRAMING PLAN & SECTION

P0.0 - PLUMBING LEGEND AND
NOTES
P1.1 - PLUMBING ROOF LEVEL LOCUS
PLAN
P2.1 - PLUMBING ROOF OVERALL
PLAN

E0.0 - ELECTRICAL LEGEND AND
NOTES
E1.1 - ELECTRICAL 1ST FL. LOCUS
PLAN
E1.2 - ELECTRICAL 2ND FL. LOCUS
PLAN
E1.3 - ELECTRICAL ROOF LEVEL
LOCUS PLAN
EP2.1 - ELECTRICAL POWER 1ST FL.
NEW WORK PLAN
EP2.2 - ELECTRICAL POWER 2ND FL.
NEW WORK PLAN
EP2.3 - ELECTRICAL POWER ROOF
PLAN
E3.0 - EMERGENCY POWER
ONE-LINE DIAGRAMS

DRAWING TITLE

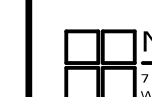
COVER SHEET

JOB NUMBER: 1501
JOB TITLE

GENERATOR REPLACEMENT
UNION STATION

CONSULTANT

ARCHITECT

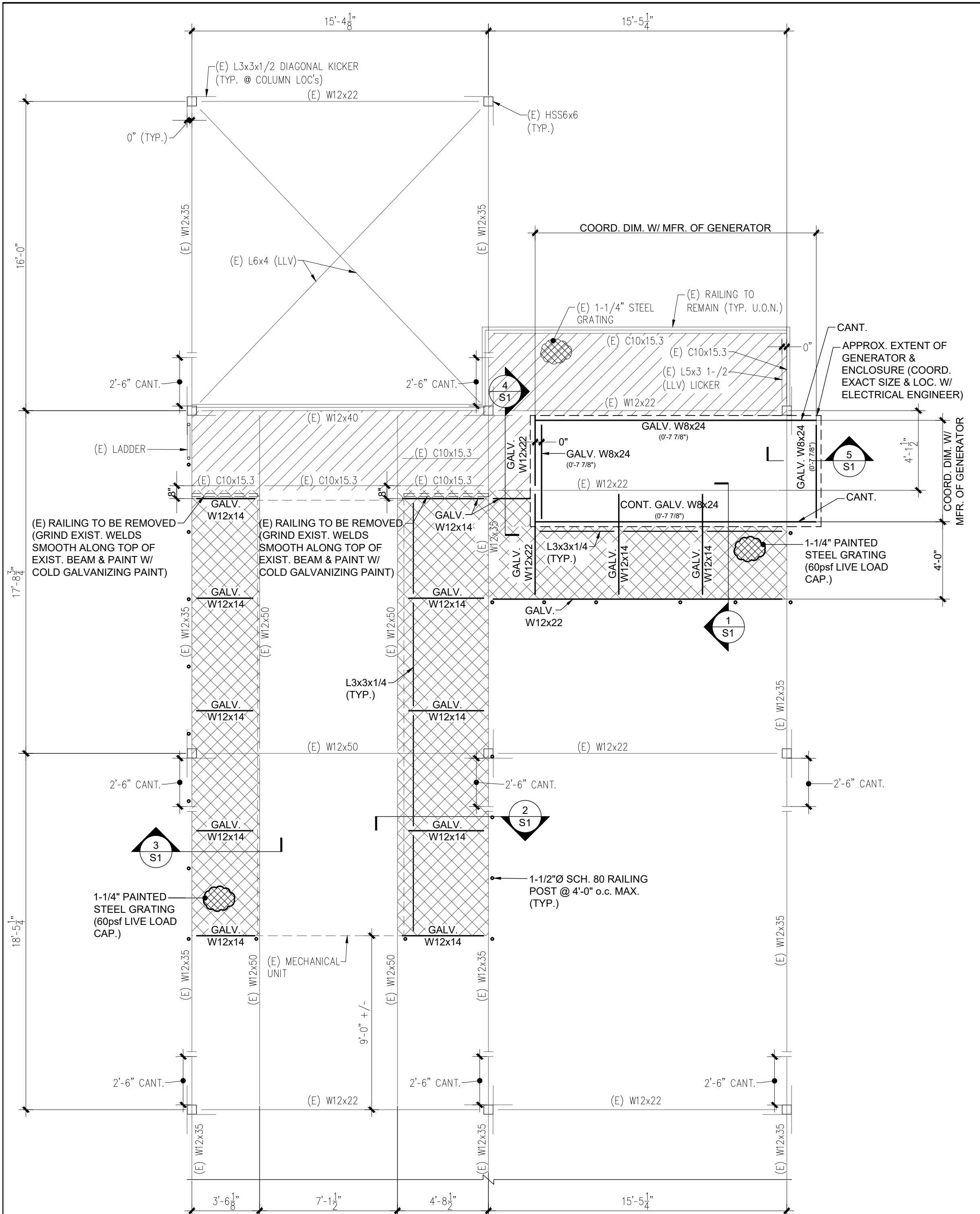
 **NAULT ARCHITECTS, INC.**
71 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 755-6134
ADMIN@NAULTARCHITECTS.COM

DRAWING NO.

T1

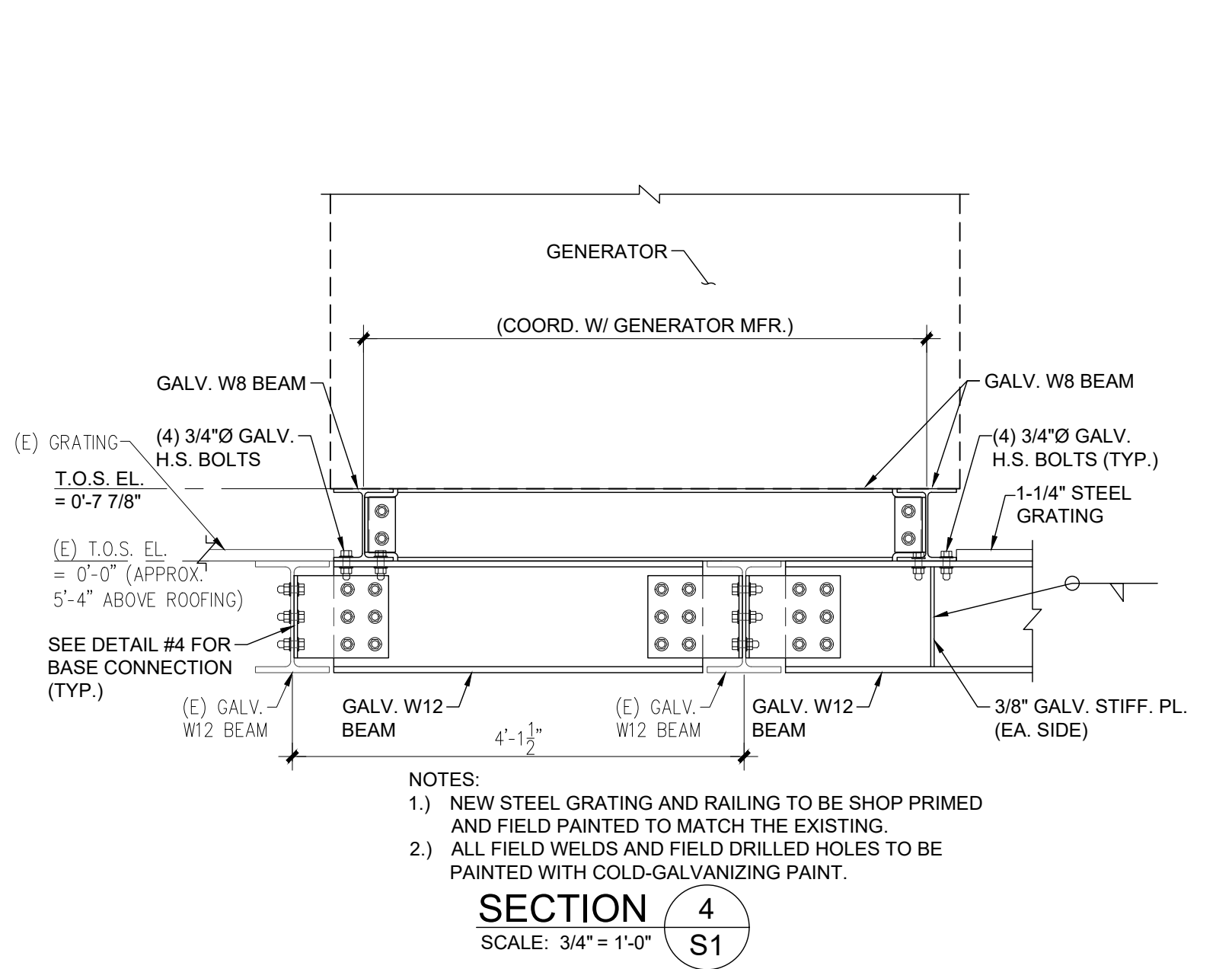
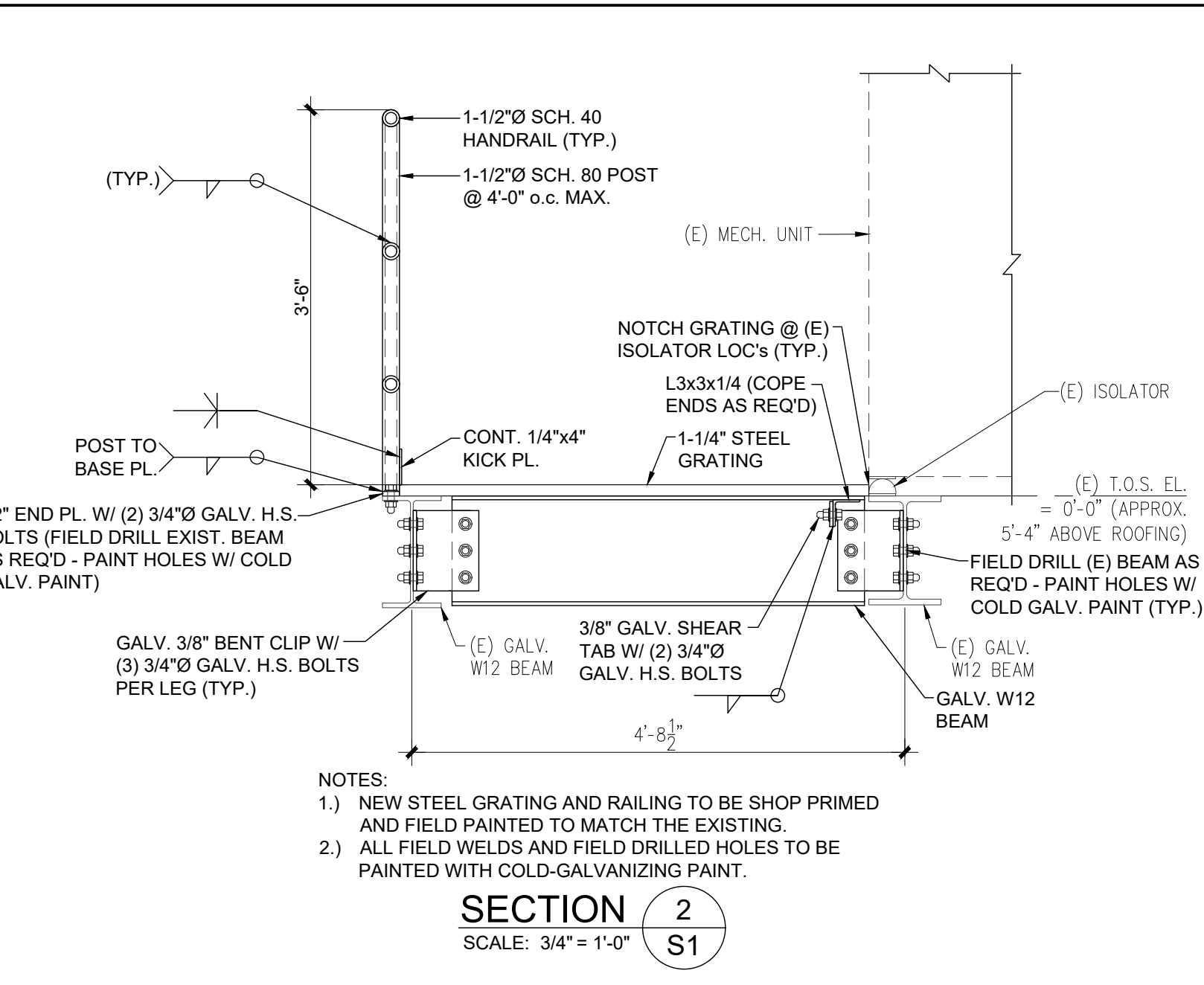
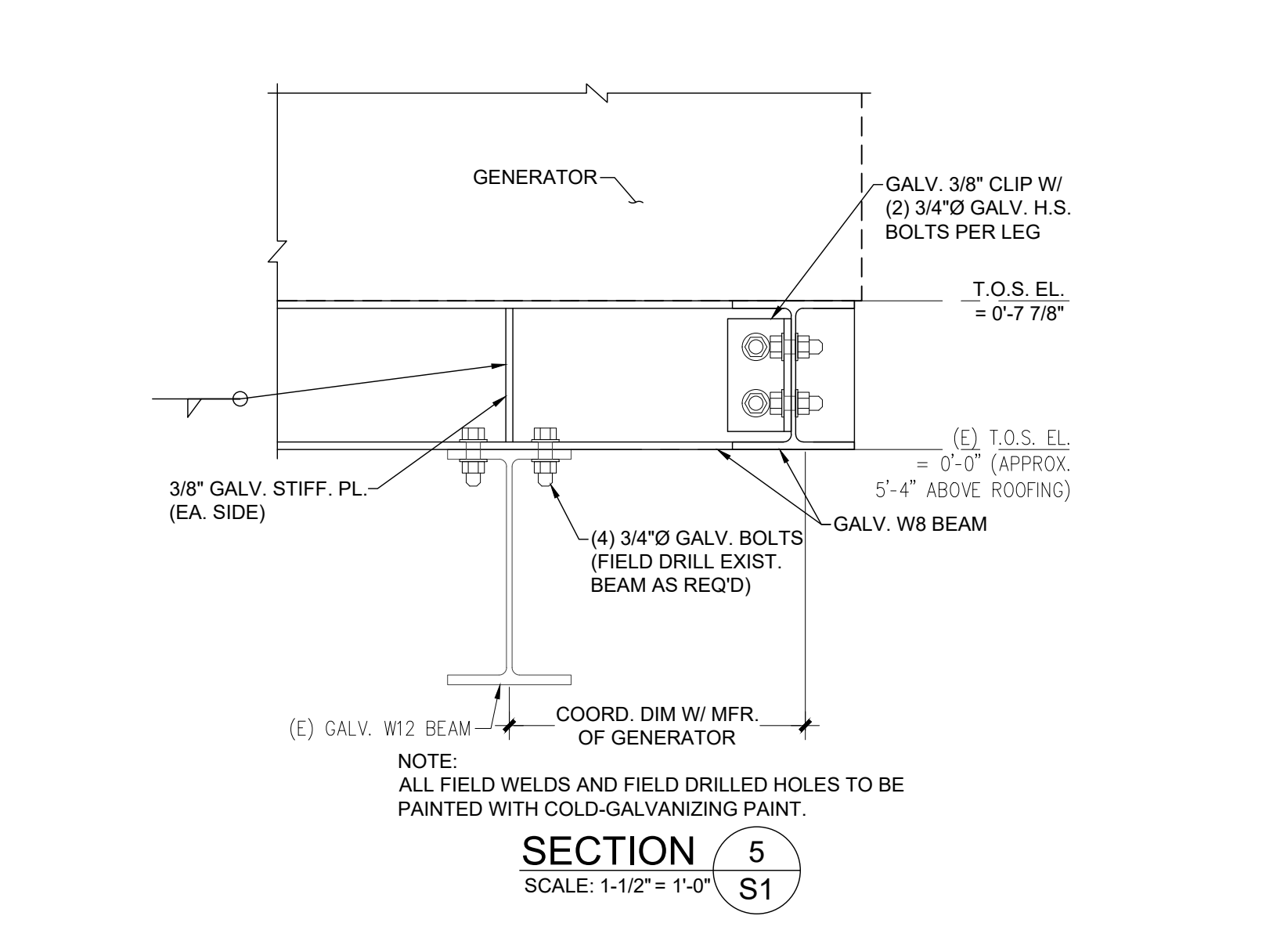
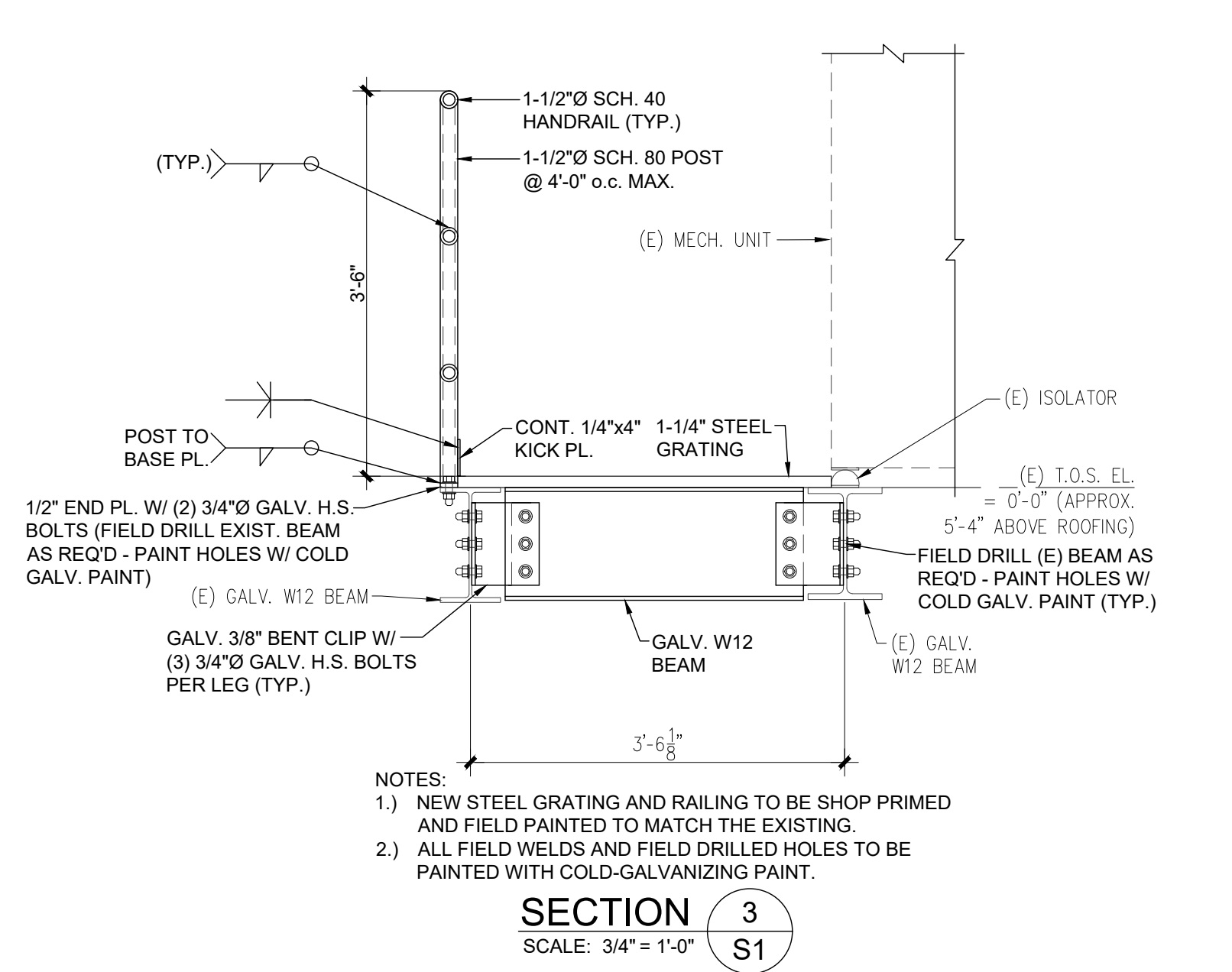
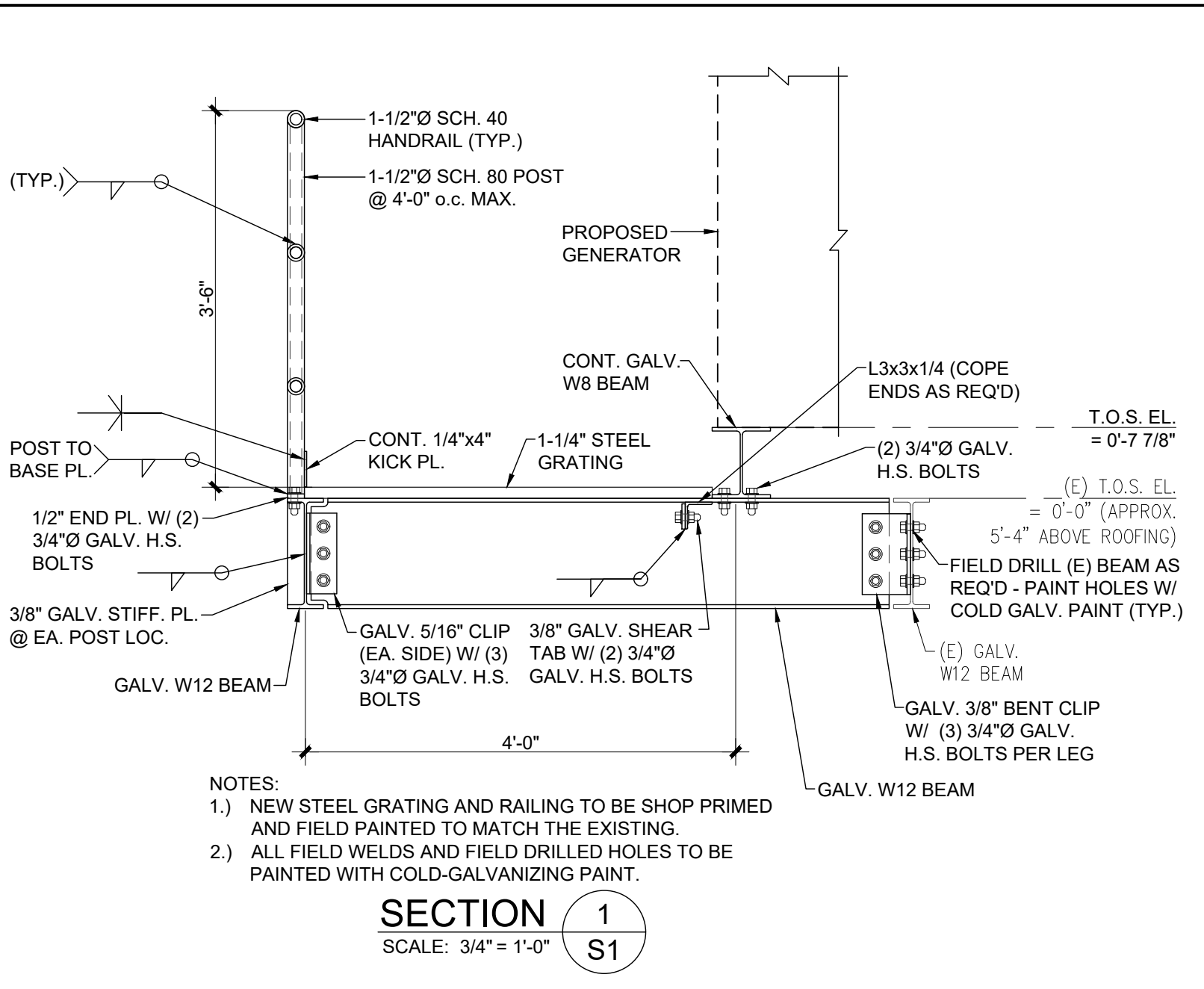
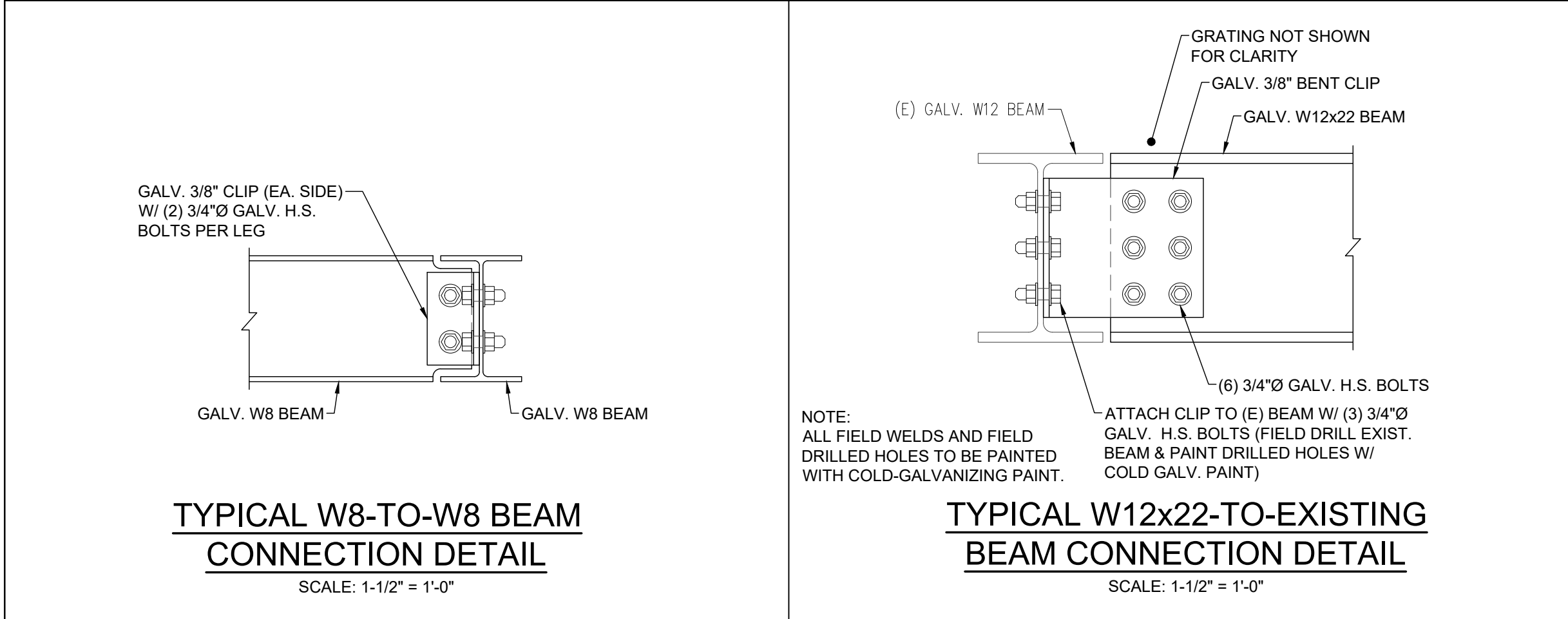
SCALE
AS NOTED

DATE
MAY 2026



GENERATOR PLATFORM FRAMING PLAN
SCALE: 1/4" = 1'-0"

- NOTES :
- (E) INDICATES EXISTING, OTHERWISE NEW.
 - G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
 - FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS, PROPOSED GENERATOR, AND OWNER.
 - EXISTING TOP OF STEEL ELEVATION = 0'-0" (APPROX. 5'-4" ABOVE THE EXISTING ROOFING).
 - INDICATES EXTENT OF THE EXISTING GRATING.
 - INDICATES EXTENT OF NEW GRATING.
 - TOP OF STEEL FOR NEW BEAMS TO MATCH THE EXISTING UNLESS OTHERWISE NOTED.



GENERAL NOTES

- A - CODES:**
- 780 CMR (MASSACHUSETTS STATE BUILDING CODE, 9th. EDITION)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- B - DESIGN LOADS:**
- LIVE LOADS:
 - GENERATOR PLATFORM 60 psf
 - EQUIPMENT LOADS:
 - GENERATOR 8,750 lb
- C - STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL TO COMPLY WITH ASTM REQUIREMENTS AS FOLLOWS:
 - W-SHAPES A992 $f_y = 50$ ksi
 - STEEL PIPE ALL OTHERS A36 $f_y = 35$ ksi
 - BOLTED CONNECTIONS TO BE MADE WITH SLIP CRITICAL CONNECTION AS PER ASTM-325.
 - MINIMUM THICKNESS OF CONNECTING ANGLES TO BE 3/8".
 - ALL EXPOSED WELDING SHALL BE GROUND SMOOTH.
 - ALL MISALIGNED BOLT HOLES IN STRUCTURAL STEEL SHALL BE PLUG WELDED SOLID AND REDRILLED FOR SPECIFIED BOLTS.
 - G.C. SHALL VERIFY IN WRITING THAT ALL BOLTED CONNECTIONS ARE COMPLETED AS SPECIFIED, AS PER CURRENT AISC STANDARDS AND HAVE BEEN TORQUE-TESTED ACCORDING TO AISC SPECIFICATIONS BEFORE LOADS ARE APPLIED.
 - ALL UNUSED BOLT HOLES SHALL BE PLUG WELDED SOLID AND GROUND SMOOTH.
 - ALL WELDING (IN SHOP & FIELD) SHALL COMPLY WITH LATEST AWS STANDARDS AND SHALL BE COMPLETED BY AN AWS-CERTIFIED WELDER.
 - ALL NEW BEAMS (AND CLIPS AND BOLTS FOR BEAM ATTACHMENT) TO BE HOP-DIPPED GALVANIZED.
 - ALL NEW GRATING AND RAILING ASSEMBLIES SHALL BE SHOP PRIMED WITH ONE COAT OF TNEC 99G METAL PRIMER OR EQUAL (COLOR TO BE GRAY) AND FIELD PAINTED (COORDINATE FINAL COLOR WITH THE OWNER).
 - ALL FIELD WELDS AND FIELD DRILLED HOLES TO BE PAINTED WITH COLD-GALVANIZING PAINT.
- D - MISCELLANEOUS:**
- FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
 - VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND EQUIPMENT.
 - NO MATERIAL SHALL BE FABRICATED UNTIL SHOP DRAWINGS ARE APPROVED. SHOP DRAWINGS SHALL BE SAME SIZE AND CLARITY AS CONTRACT DRAWINGS, AND SHALL BE COORDINATED WITH OTHER RELATED SHOP DRAWINGS.
 - NO PERMISSION WILL BE GRANTED FOR ANY STRUCTURAL DRAWINGS TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.
 - A MINIMUM OF FOUR HARD COPIES ARE REQUIRED FOR EACH SHOP DRAWING SUBMITTAL (ALL MATERIALS).
 - G.C. SHALL COORDINATE THE WORK OF ALL TRADES TO PROVIDE FUNCTIONAL AND DIMENSIONAL COMPATIBILITY BETWEEN ALL COMPONENTS.
 - G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).

DRAWING TITLE
GENERATOR PLATFORM
FRAMING PLAN, & SECTIONS

PROJECT NUMBER: 1680
JOB TITLE:
MISCELLANEOUS RENOVATIONS
PHASE 2
UNION STATION
WORCESTER, MA

CONSULTANT
JSE
Johnson Structural Engineering, Inc.
101 Hutton Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

ARCHITECT
NAULT ARCHITECTS, INC.
17 HOPE AVENUE
WORCESTER, MA 01403
TEL: (508) 751-6234
FAX: (508) 754-4441

DRAWING NO.
S1

SCALE
AS NOTED

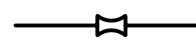
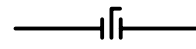
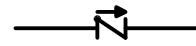
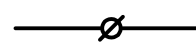
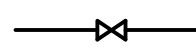
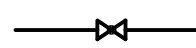
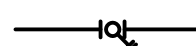
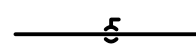
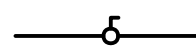
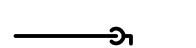
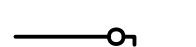
DATE
MAY 2026

ABBREVIATIONS

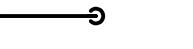
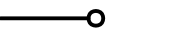
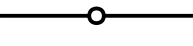
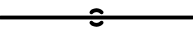
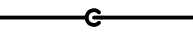
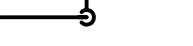
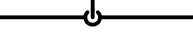
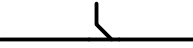
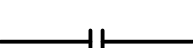
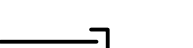
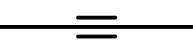
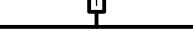
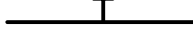
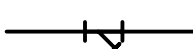
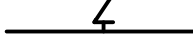
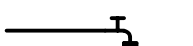
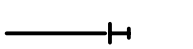
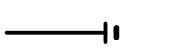
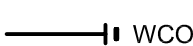
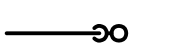
AAV	AIR ADMITTANCE VALVE	PE	POLYETHYLENE
AC	AIR CONDITIONING	PEX	CROSS LINKED POLYETHYLENE
ACH	AIR CHANGES PER HOUR	PF	PROPELLER FAN
AD	ACCESS DOOR	PG	PROPANE GAS OR PROPYLENE GLYCOL
AFF	ABOVE FINISHED FLOOR	PP	POLYPROPYLENE
AFG	ABOVE FINISHED GRADE	PRE	POWER ROOF EXHAUST
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	PRV	PRESSURE REDUCING VALVE
AHU	AIR HANDLING UNIT	PWE	POWER WALL EXHAUSTER
AI	ANALOG INPUT	PSI	POUNDS PER SQUARE INCH
AO	ANALOG OUTPUT	PSIG	POUND PER SQUARE INCH GAUGE
AP	ACCESS PANEL	R/A	RETURN AIR
AS	AIR SEPARATOR	RD	ROOF DRAIN
ATC	AUTOMATIC TEMPERATURE CONTROLS	RH	RELATIVE HUMIDITY
BBD	BOILER BLOWDOWN	RTU	ROOFTOP UNIT
BD	BACKDRAFT DAMPER	RR	RETURN REGISTER
BF	BOILER FEED	S/A	SUPPLY AIR
BFF	BELOW FINISHED FLOOR	SD	SMOKE DAMPER OR SUPPLY DIFFUSER
BFP	BACKFLOW PREVENTER	SF	SUPPLY FAN
BG	BLAST GATE	SH	SHOWER
BHP	BRAKE HORSEPOWER	SIC	SQUARE INLINE CENTRIFUGAL
BI	BACKWARD INCLINED	SP	STATIC PRESSURE
BIA	BACKWARD INCLINED AIRFOIL	SR	SUPPLY REGISTER
BOD	BOTTOM OF DUCT	SS	STAINLESS STEEL
BOP	BOTTOM OF PIPE	T/A	TRANSFER AIR
BTU	BRITISH THERMAL UNIT	TAB	TESTING, ADJUSTING & BALANCING
BTUH	BTU PER HOUR	TD	TRENCH DRAIN
CAF	COMBUSTION AIR FAN	TG	TRANSFER GRILLE
CAP	CAPACITY	TIC	TUBULAR INLINE CENTRIFUGAL
CC	COOLING COIL	TMX	THERMOSTATIC MIXING VALVE
CD	CONDENSATE DRAIN	TOD	TOP OF DUCT
CFM	CUBIC FEET PER MINUTE	TSP	TOTAL STATIC PRESSURE
CI	CAST IRON	TYP	TYPICAL
CL	CENTERLINE	UCD	UNDERCUT DOOR
CLG	CEILING	UG	UNDERGROUND
CO	CLEANOUT	UH	UNIT HEATER
CONN	CONNECTION	UR	URNAL
COP	COEFFICIENT OF PERFORMANCE	US	UTILITY SINK
CU	CONDENSING UNIT OR COPPER	V	VENT
CUH	CABINET UNIT HEATER	VAV	VARIABLE AIR VOLUME
CW	COLD WATER OR CLOTHES WASHER	VB	VACUUM BREAKER
DB	DRY BULB	VD	VOLUME DAMPER
DDC	DIRECT DIGITAL CONTROL	VFD	VARIABLE FREQUENCY DRIVE
DF	DRINKING FOUNTAIN	VTR	VENT THROUGH ROOF
DG	DIGESTER GAS	WB	WET BULB
DI	DIGITAL INPUT	WC	WATER CLOSET OR WATER COLUMN
DIA	DIAMETER	WCO	WALL CLEANOUT
DN	DOWN	WG	WATER GAUGE
DO	DIGITAL OUTPUT	WH	WATER HEATER
DWG	DRAWING	XP	EXPLOSION PROOF
E/A	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE		
EC	ELECTRICAL CONTRACTOR		
EE	EMERGENCY EYEWASH		
EER	ENERGY EFFICIENCY RATIO		
EES	EMERGENCY EYEWASH & SHOWER		
EF	EXHAUST FAN		
EGT	ENTERING GAS TEMPERATURE		
EH	EXHAUST HOOD		
ER	EXHAUST REGISTER		
ERH	EXTERIOR ROOF HYDRANT		
ERU	ENERGY RECOVERY UNIT		
ESP	EXTERNAL STATIC PRESSURE		
ET	EXPANSION TANK		
EW	ELECTRIC WATER COOLER		
EWT	ENTERING WATER TEMPERATURE		
EWI	EXTERIOR WALL HYDRANT		
EXIST	EXISTING		
FA	FREE AREA		
FC	FORWARD CURVED OR FLEXIBLE CONNECTION		
FCU	FAN COIL UNIT		
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN OR FIRE DAMPER		
FDC	FIRE DEPARTMENT CONNECTION		
FDV	FIRE DEPARTMENT HOSE VALVE		
FFU	FAN FILTER UNIT		
FH	FILTER HOUSING		
FL	FAIL LAST		
FLA	FULL LOAD AMPS		
FM	FLOW METER OR FACTORY MUTUAL		
FMS	FACILITY MANAGEMENT SYSTEM		
FP	FIRE PROTECTION		
FPI	FINS PER INCH		
FBM	FEET PER MINUTE		
FRP	FIBERGLASS REINFORCED PLASTIC		
FS	FLOW SWITCH OR FLOOR SINK		
FT	FEET		
F&T	FLOAT AND THERMOSTATIC		
G	GAS		
GC	GENERAL CONTRACTOR		
GF	GAS FURNACE		
GMU	GLYCOL MAKEUP UNIT		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
GUH	GAS UNIT HEATER		
HB	HOSE BIBB		
HC	HEATING COIL		
HD	HEAD		
HP	HORSEPOWER OR HEAT PUMP		
HRU	HEAT RECOVERY UNIT		
HS	HOSE STATION		
HX	HEAT EXCHANGER		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IEER	INTEGRATED ENERGY EFFICIENCY RATIO		
IH	INTAKE HOOD		
IW	INDIRECT WASTE		
IWH	INTERIOR WALL HYDRANT		
KS	KITCHEN SINK		
L	LAVATORY		
LAT	LEAVING AIR TEMPERATURE		
LGT	LEAVING GAS TEMPERATURE		
LBS	POUNDS		
LP	LIQUID PROPANE		
LWCO	LOW WATER CUT OFF		
LWT	LEAVING WATER TEMPERATURE		
MBH	THOUSAND BTUH		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		
MMBH	MILLION BTUH		
MOC	MAXIMUM OVERCURRENT PROTECTION		
MD	MOTORIZED DAMPER		
MS	MOP SINK		
MTD	MOUNTED		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRIC CODE		
NG	NATURAL GAS		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OBD	OPPOSED BLADE DAMPER		
O/A	OUTSIDE AIR		
PD	PRESSURE DROP		

 NEW CONNECTION TO EXISTING

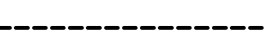
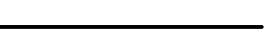
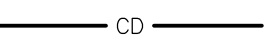
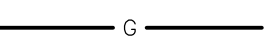
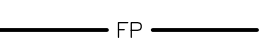
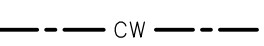
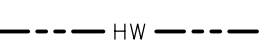
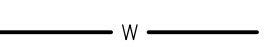
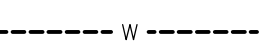
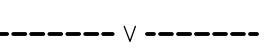
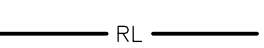
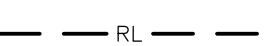
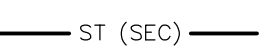
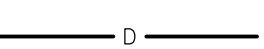
VALVES

	AUTOMATIC FLOW CONTROL
	BALL OR BUTTERFLY (SIZE DEPENDENT)
	CHECK
	BALANCING
	GATE
	GLOBE
	PLUG
	PRESSURE REGULATING OR REDUCING
	RELIEF
	ANGLE PATTERN MULTI PURPOSE PUMP DISCHARGE
	STRAIGHT PATTERN MULTI PURPOSE PUMP DISCHARGE
	VALVE IN TEE DROP
	VALVE IN TEE RISE
	VALVE IN ELBOW DROP
	VALVE IN ELBOW RISE
	2-WAY CONTROL (ELECTRONIC)
	2-WAY CONTROL (PNEUMATIC)
	3-WAY CONTROL (ELECTRONIC)
	3-WAY CONTROL (PNEUMATIC)

FITTINGS

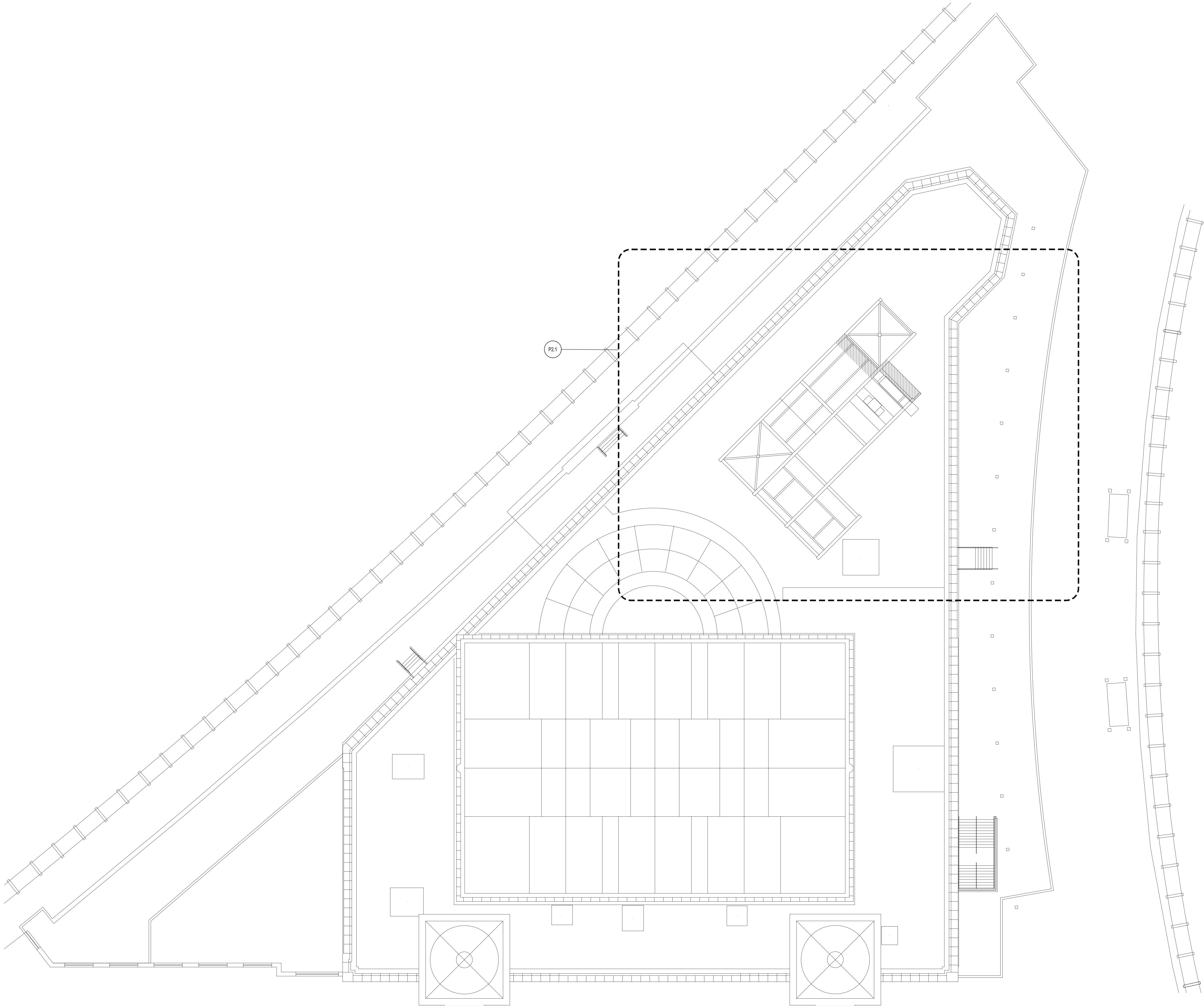
	EXPANSION JOINT
	PIPE TURNING DOWN (PIPE DROP)
	PIPE TURNING UP (PIPE RISE)
	TEE UP (OFF TOP)
	TEE DOWN (OFF BOTTOM)
	PIPE DROP IN RUN
	PIPE DROP AND TURN
	TEE OFF TOP
	TEE OFF BOTTOM
	PLAIN ELBOW
	SANITARY ELBOW
	PLAIN TEE (OFF SIDE)
	SANITARY TEE (OFF SIDE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	FLANGED JOINT
	PIPE CAP
	THREADED HOSE END WITH CAP
	METAL GASKET FACE SEAL
	PIPE GUIDE
	PIPE ANCHOR
	WALL SLEEVE
	FLEX CONNECTION
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PUMP
	DIFFERENTIAL PRESSURE
	TRAP PRIMER
	TEST PLUG
	WATER FILTER HOUSING AND CARTRIDGE
	WYE STRAINER
	WYE STRAINER W/BLOWDOWN
	BASKET STRAINER
	PUMP SUCTION DIFFUSER
	VACUUM BREAKER
	BACKFLOW PREVENTER
	WALL HYDRANT (ELEVATION)
	WALL HYDRANT (PLAN VIEW)
	CLEANOUT END OF LINE
	WALL CLEANOUT
	FLOOR CLEANOUT
	TRAP

PIPING

	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED ON DEMOLITION DRAWINGS
	NEW WORK ON PROPOSED DRAWINGS
	CONDENSATE DRAIN
	GAS PIPING
	FUEL OIL FILL
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	FIRE PROTECTION SPRINKLER
	TEPID WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC.
	SANITARY DRAIN
	SANITARY DRAIN BELOW FLOOR
	SANITARY VENT
	STORM DRAIN
	STORM DRAIN BELOW FLOOR
	SECONDARY STORM DRAIN
	INDIRECT DRAIN
	NON POTABLE WATER
	NON POTABLE HOT WATER
	DIRECTION OF FLOW
	PITCH PIPE DOWN
	COMPRESSED AIR

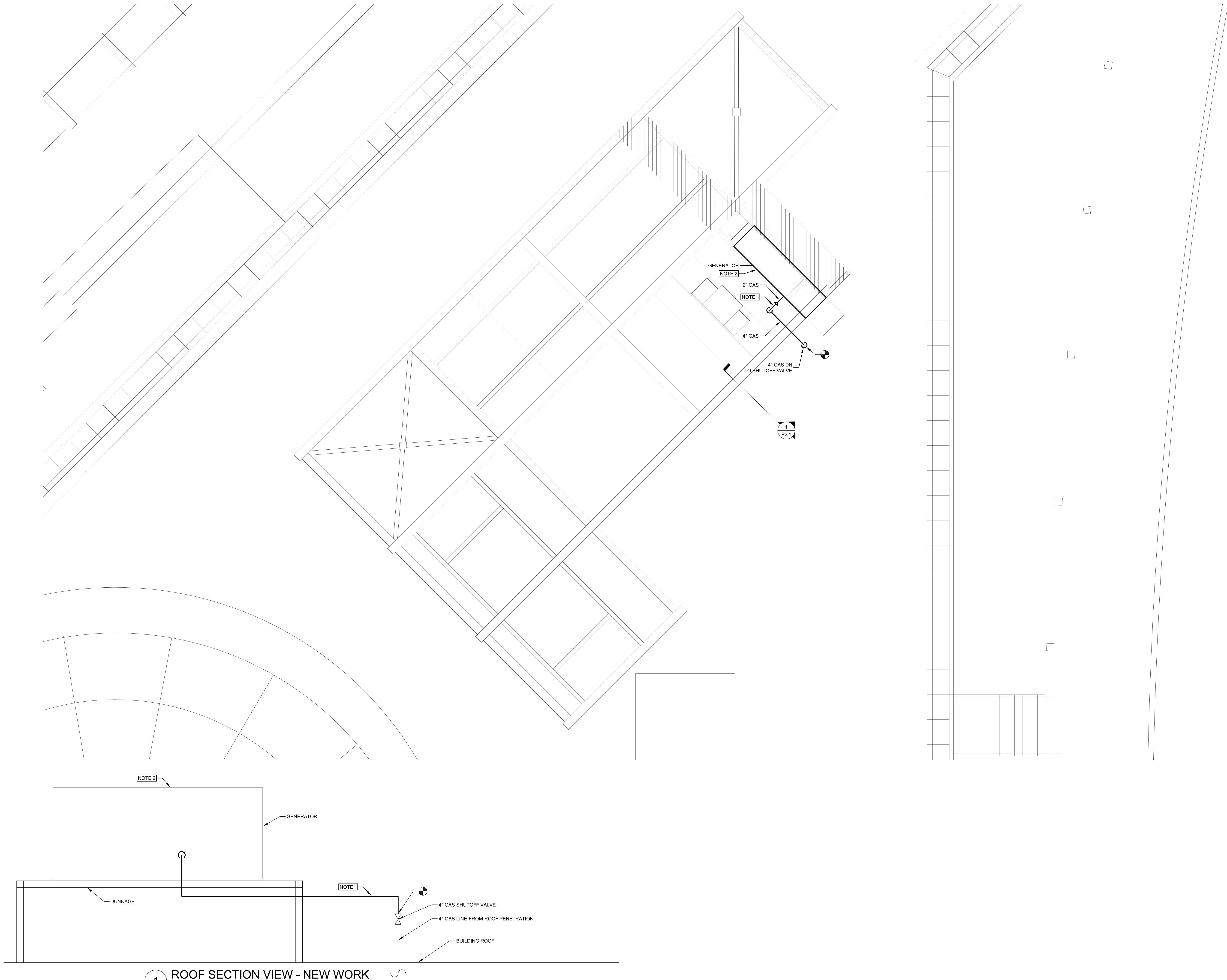
KEY PLAN	
DRAWING TITLE	
PLUMBING LEGEND AND NOTES	
JOB NUMBER: 1680.4 JOB TITLE: GENERATOR REPLACEMENT UNION STATION WORCESTER, MA	
CONSULTANT	HallamICS AN EMPLOYEE OWNED COMPANY 575 West Street, Suite 220 Mansfield, MA 02048 Tel: 508.821.9759 www.Hallam-ICS.com
ARCHITECT	NAULT ARCHITECTS, INC. 71 HOPE AVENUE WORCESTER, MA 01603 TEL: (508) 755-8134 FAX: (508) 754-4661
	DRAWING NO. PO.0
SCALE AS NOTED	DATE MAY 2026

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GENERAL NOTES: A. SEE DRAWING P0.0 FOR LEGEND AND ABBREVIATIONS.	
KEY PLAN	
KEY PLAN NOT TO SCALE	
DRAWING TITLE	
PLUMBING ROOF LEVEL LOCUST PLAN	
JOB NUMBER: 1680.4 JOB TITLE: GENERATOR REPLACEMENT UNION STATION WORCESTER, MA	
CONSULTANT Hallam ICS AN EMPLOYEE OWNED COMPANY 575 West Street, Suite 220 Mansfield, MA 02048 Tel: 508.821.9759 www.Hallam-ICS.com	
ARCHITECT NAULT ARCHITECTS, INC. 71 HOPE AVENUE WORCESTER, MA 01603 TEL: (508) 755-8134 FAX: (508) 754-4661	
	DRAWING NO. P1.1
SCALE 3/32" = 1'-0"	DATE MAY 2026

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- GENERAL NOTES:
A. SEE DRAWING P0.0 FOR LEGEND AND ABBREVIATIONS.
- KEYED NOTES:
- CONTRACTOR SHALL DEMOLISH GAS PIPING BACK TO SHUTOFF VALVE ON ROOF. CONTRACTOR SHALL THEN INSTALL NEW GAS PIPING FROM SHUTOFF VALVE TO NEW GENERATOR. CONTRACTOR SHALL USE 4" PIPE FROM THE SHUTOFF VALVE TO THE GENERATOR. CONTRACTOR SHALL TRANSITION TO THE FINAL CONNECTION SIZE REQUIRED BY THE GENERATOR AS CLOSE TO THE GENERATOR AS POSSIBLE.
 - CONTRACTOR SHALL DEMOLISH EXISTING GENERATOR AND PREPARE AREA FOR NEW WORK. CONTRACTOR THEN SHALL REPLACE GENERATOR IN KIND, IN THE SAME LOCATION.

KEY PLAN	
KEY PLAN NOT TO SCALE	
DRAWING TITLE	
PLUMBING ROOF OVERALL PLAN	
JOB NUMBER: 1680.4 JOB TITLE: GENERATOR REPLACEMENT UNION STATION WORCESTER, MA	
CONSULTANT Hallam ICS AN EMPLOYEE OWNED COMPANY 575 West Street, Suite 220 Mansfield, MA 02048 Tel: 508.821.9759 www.Hallam-ICS.com	
ARCHITECT NAULT ARCHITECTS, INC. 71 HOPE AVENUE WORCESTER, MA 01603 TEL: (508) 755-8134 FAX: (508) 754-4661	
DRAWING NO. P2.1	
SCALE 3/16" = 1'-0"	DATE MAY 2026

ELECTRICAL SYMBOL LEGEND

REFER TO ELECTRICAL SPECIFICATIONS DIVISION 26000 FOR MORE INFORMATION

RECEPTACLES

- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- DUPLEX RECEPTACLE, ABOVE COUNTER
- GROUND FAULT DUPLEX RECEPTACLE
- ARC FAULT
- GROUND FAULT DUPLEX RECEPTACLE, W/ WEATHER PROOF BOX AND COVER
- COIL REEL RECEPTACLE
- SPECIAL RECEPTACLE, SUBSCRIPT DENOTES NEMA CONFIGURATION
- FLUSH MOUNT FLOOR OR CEILING BOX WITH RECEPTABLES AS SHOWN "CM" DENOTES CEILING MOUNTED

RACEWAYS

- BRANCH CIRCUIT HOMERUN TO PANELBOARD
- BRANCH CIRCUIT
- BRANCH CIRCUIT BELOW GRADE
- UNDERGROUND PRIMARY
- UNDERGROUND SECONDARY
- UNDERGROUND COMMUNICATION
- CABLE MANAGEMENT SYSTEM
- POWER/COMM. POLE
- BUSWAY
- CABLETRAY
- WIREWAY
- SURFACE MOUNTED RACEWAY FOR POWER. INSTALL DUPLEX RECEPTABLES 18" O.C. STARTING 6" FROM ONE END, FOR THE ENTIRE LENGTH OF RACEWAY. WIREMOLD 3000 SERIES OR APPROVED EQUAL
- SURFACE MOUNTED RACEWAY FOR POWER. INSTALL DUPLEX RECEPTABLES AS SHOWN ON FLOOR PLANS. WIREMOLD 3000 OR APPROVED EQUAL
- SURFACE MOUNTED RACEWAY W/ DIVIDER FOR POWER & DATA WIRING. INSTALL DUPLEX RECEPTABLES AND DATA OUTLETS AS SHOWN ON FLOOR PLANS. WIREMOLD 4000 SERIES OR APPROVED EQUAL
- SURFACE MOUNTED RACEWAY W/ DIVIDER FOR POWER & DATA WIRING. INSTALL DUPLEX RECEPTABLES AND DATA OUTLETS AS SHOWN ON FLOOR PLANS. WIREMOLD 4000 SERIES OR APPROVED EQUAL
- PULL BOX
- CONDUIT TURN UP
- CONDUIT TURN DOWN
- CONDUIT SUB ABOVE CEILING
- 4" SLEEVE

DISTRIBUTION EQUIPMENT

- SURFACE MOUNTED PANELBOARD
- RECESSED MOUNTED PANELBOARD
- TRANSFORMER. REFER TO TRANSFORMER SCHEDULE FOR ADDITIONAL INFORMATION
- AUTOMATIC TRANSFER SWITCH
- MOTOR CONTROL CENTER
- ENCLOSED CIRCUIT BREAKER. NUMBER DENOTES AMPS
- CURRENT TRANSFORMER CABINET AS REQUIRED BY UTILITY COMPANY
- METER WITH METER SOCKET. PROVIDE SOCKET AS REQUIRED BY ELECTRIC UTILITY COMPANY

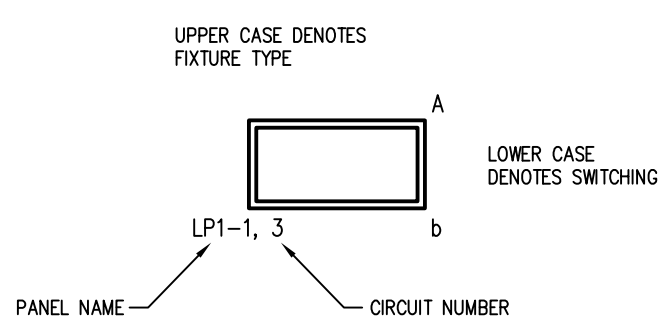
MOTORS & EQUIPMENT

- JUNCTION BOX
- MOTOR. REFER TO MOTOR CIRCUIT SCHEDULE FOR ADDITIONAL INFORMATION.
- EQUIPMENT CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- COMBINATION MOTOR STARTER/DISCONNECT
- VARIABLE FREQUENCY DRIVE, FURNISHED AND INSTALLED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- MUSHROOM TYPE EMERGENCY SHUTDOWN SWITCH
- AQUASTAT FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- HVAC AUTOMATIC TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY HVAC CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- PUSH BUTTON
- PIROMATIC
- MOTOR SENTINEL SWITCH

LIGHTING

- 1X4 SURFACE FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- 2X2 SURFACE FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- 2X4 SURFACE FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- 1X4 RECESSED FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- 2X2 RECESSED FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- 2X4 RECESSED FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- CEILING MOUNTED/RECESSED LIGHT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- WALL MOUNTED FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- STRIP FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- EMERGENCY INDUSTRIAL LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE, LETTER DENOTES TYPE
- UNDER CABINET LIGHTING
- EMERGENCY LIGHTS, BATTERY BACKUP
- EMERGENCY LIGHTS, REMOTE BATTERY
- EMERGENCY LIGHTS, REMOTE HEAD
- EXIT LIGHT, WALL MOUNTED, LETTER DENOTES TYPE
- SINGLE FACE EXIT LIGHT, CEILING MOUNTED, LETTER DENOTES TYPE
- DOUBLE FACE EXIT LIGHT, CEILING MOUNTED, LETTER DENOTES TYPE
- TRACK LIGHTING WITH FIXTURE HEAD
- BOLLARD LIGHT FIXTURE
- POLE LIGHT, SINGLE HEAD
- POLE LIGHT, DOUBLE HEAD
- EMERGENCY LIGHTING SWITCHING RELAY

LIGHT FIXTURE DESIGNATION DETAIL



LIGHTING CONTROL

- ROOM LIGHTING CONTROL LOCATION, REFER TO LIGHTING CONTROL MATRIX FOR REQUIREMENTS.
- FAN/LIGHT COMBINATION
- TIME CLOCK
- PHOTOCELL
- OCCUPANCY SENSOR
- LIGHTING POWER PACK, 0-10V DIMMING
- LIGHTING POWER PACK, PHASE-DIMMING
- WIRELESS LIGHTING CONTROL HUB

NOTES:

- PROVIDE POWER PACKS AS NECESSARY.
- NEUTRAL CONDUCTOR REQUIRED AT DEVICE PER N.E.C.
- FOR LED DIMMING, PROVIDE ADDITIONAL 0-10V CONDUCTORS BETWEEN DIMMER AND FIXTURES.

COMBINATION FLOOR BOXES

- RECESSED FLUSH, FIRE CLASSIFIED, COMBINATION FLOOR BOX WITH (4) DUPLEX BRACKETS. PROVIDE WITH (2) DUPLEX RECEPTABLES AND PROVISIONS FOR TELECOMMUNICATION AND A/V ON THE OTHER BRACKETS. PROVIDE (1) 1" FOR POWER, (1) 1" FOR TELECOMMUNICATIONS AND (1) 1/4" FOR A/V. WIREMOLD #8FSA-400FM OR APPROVED EQUAL. BOX FOR SLAB-ON-GRADE APPLICATION SHALL BE FURNISHED WITH EPOXY COATING. PROVIDE FLANGED COVER
- RECESSED FLUSH, FIRE CLASSIFIED, COMBINATION FLOOR BOX FOR POWER AND TELECOMMUNICATION FEED TO FURNITURE SYSTEM. PROVIDE (1) 1" FOR POWER, (1) 1/4" FOR TELECOMMUNICATION WIRING. WIREMOLD #8FSA-400FM OR APPROVED EQUAL. BOX FOR SLAB-ON-GRADE APPLICATION SHALL BE FURNISHED WITH EPOXY COATING. PROVIDE FLANGED FURNITURE FEED COVER ASSEMBLY
- RECESSED 6" FIRE RATED POKE THRU FOR POWER AND TELECOMMUNICATIONS. PROVIDE (2) DUPLEX RECEPTABLES AND MOUNTING PROVISIONS FOR TELECOMMUNICATION. WIREMOLD #6ATCF, OR APPROVED EQUAL
- RECESSED 6" FIRE RATED POKE THRU FOR POWER AND TELECOMMUNICATION CONNECTIONS TO FURNITURE SYSTEMS. WIREMOLD #6ATCF, OR APPROVED EQUAL
- RECESSED WALL TV/MONITOR SERVICE BOX. WIREMOLD #8FSA-400FM, FOUR GANG BOX WITH DUPLEX RECEPTACLE, AND PROVISIONS FOR TELECOMMUNICATIONS AND A/V
- RECESSED CEILING MOUNTED COMBINATION BOX WITH POWER, TELECOMMUNICATIONS AND A/V WITH PROJECTOR MOUNT. WIREMOLD #6CBSP, OR APPROVED EQUAL

FIRE ALARM

- MANUAL FIRE PULL STATION
- BELL
- SPEAKER
- STROBE LIGHT/SPEAKER
- HORN/LIGHT
- HORN
- MAGNETIC LOCK
- MAGNETIC HOLD HOLDERS
- REMOTE TEST STATION
- CHIME/STROBE LIGHT
- REMOTE ALARM INDICATOR
- SMOKE DETECTOR, NO SUBSCRIPT PHOTOELECTRIC, SUBSCRIPT I=IONIZATION SUBSCRIPT H=PHOTOELECTRIC W/135° HEAT DETECTION
- HEAT DETECTOR, SUBSCRIPT #=TEMPERATURE, R=RATE OF RISE
- CO DETECTOR
- DUCT MOUNTED SMOKE DETECTOR
- DUCT MOUNTED HEAT DETECTOR
- SPRINKLER TAMPER SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- SPRINKLER FLOW SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR
- SPRINKLER PRESSURE SWITCH
- FIRE ALARM CONTROL PANEL
- FIRE ALARM VOICE PANEL
- FIRE ALARM ANNUNCIATOR
- FIRE ALARM CONTROL RELAY
- ADDRESSABLE MONITOR MODULE
- ISOLATION MODULE
- AUXILIARY STROBE POWER SUPPLY
- KNOX BOX
- MASTER BOX. COORDINATE WITH FIRE DEPARTMENT FOR LOCATION AND REQUIREMENTS.
- EXTERIOR FIRE ALARM BEACON

NOTES:

- ALL DEVICES 150d UNLESS NOTED OTHERWISE.
- MOUNT DEVICES ON COMMON VERTICAL PLANE WITH OTHER DEVICES ON SAME SURFACE.
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT STANDARDS. ALL FIRE ALARM WIRING SHALL BE AS REQUIRED BY THE MANUFACTURER AND INSTALLED IN CONDUIT. FIRE ALARM MC CABLE MAY BE USED IF APPROVED BY THE LOCAL FIRE DEPARTMENT.
- ELECTRICAL CONTRACTOR SHALL ENGAGE THE SERVICES OF THE EXISTING FIRE ALARM SYSTEM MANUFACTURER OR AUTHORIZED REPRESENTATIVE TO ASSIST WITH EXPANSION OF EXISTING SYSTEM AND RECALCULATING BATTERY SIZING.
- PROVIDE POWER SUPPLY (QUANTITY AS REQUIRED) FOR NEW SPEAKER/STROBE CIRCUITS.
- LOCATE DUCT SMOKE DETECTOR REMOTE TEST SWITCHES IN CEILING OR ADJACENT WALL NEAREST EQUIPMENT BEING SERVED.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. RE-USE OF THE EXISTING FIRE ALARM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOowns SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- FIRE ALARM SHOP DRAWING SUBMITTAL SHALL INCLUDE A RISER DIAGRAM AND COMPLETED BATTERY CALCULATIONS.
- BEFORE WIRING NEW OR RELOCATED FIRE ALARM DEVICES INTO EXISTING LOOPS, THE ELECTRICAL CONTRACTOR SHALL VERIFY CAPACITY FOR NEW DEVICES AND PROVIDE ANY ADDITIONAL SYSTEM COMPONENTS, WIRING OR PROGRAMMING REQUIRED TO INCORPORATE THE NEW/RELOCATED DEVICES INTO THE EXISTING FIRE ALARM SYSTEM.

DATA/COMM

- DATA OUTLET, SUBSCRIPT DENOTES QUANTITY. 4" SQUARE BACK BOX WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING. PROVIDE PULL STRING
- COMBINATION DATA/TELEPHONE OUTLET SUBSCRIPT DENOTES QUANTITY. 4" SQUARE BACK BOX WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING. PROVIDE PULL STRING
- TELEPHONE OUTLET, SUBSCRIPT DENOTES QUANTITY. 4" SQUARE BACK BOX WITH 1" CONDUIT TO NEAREST ACCESSIBLE ABOVE CORRIDOR CEILING. PROVIDE PULL STRING
- FLOOR MOUNTED DATA OUTLET
- FLOOR MOUNTED TELEPHONE OUTLET
- ENVIRONMENTAL ALARM POINT
- TELEPHONE BELL
- THERMOSTAT
- WIRELESS ACCESS POINT. PROVIDE 4" SQUARE BACK BOX

SECURITY DEVICES

- CARD READER
- DOOR CONTACT
- DOOR RELEASE
- ELECTRIC LOCK
- ELECTRIC STRIKE
- SYSTEM KEYPAD
- MAGNETIC LOCK
- MOTION SENSOR
- POWER SUPPLY
- SECURITY CAMERA
- PANIC BUTTON

NOTES:

- ELECTRICAL CONTRACTOR SHALL PROVIDE 4" BACK BOX WITH 1" CONDUIT AT EACH DEVICE LOCATION TO SECURITY MANAGEMENT HEAD END EQUIPMENT.
- EQUIPMENT, DEVICES AND ALL WIRING BY SYSTEM INTEGRATOR.
- COORDINATE FINAL BACK-BOX SIZES WITH EQUIPMENT VENDOR PRIOR TO ROUGH IN.

GENERAL NOTES

- THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE PLANS OR DETAIL SHEET. ONLY THOSE SYMBOLS INDICATED ON THE PLANS ARE USED AND OTHERS SHOULD BE DISREGARDED.
- WHERE THE REQUIREMENTS OF THESE DRAWINGS CONFLICT WITH OTHER PARTS OF THESE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- THESE CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY, INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF CONDUITS, DISTRIBUTION EQUIPMENT, LIGHTING FIXTURES, SYSTEMS EQUIPMENT, ETC., AND NOT NECESSARILY SHOWING ALL DETAILS, ACCESSORIES AND EQUIPMENT TO BE CONNECTED. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING IN THE FIELD THE EXACT LOCATIONS, MOUNTING HEIGHTS OF EQUIPMENT AS WELL AS THE ROUTING OF RACEWAYS TO AVOID EXISTING FIELD CONDITIONS. ALL WORK SHALL BE ACCURATELY Laid OUT WITH OTHER TRADES TO AVOID CONFLICTS AND TO OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR OPERATION, MAINTENANCE AND HEADROOM.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS AND THE SCOPE OF WORK PRIOR TO SUBMISSION OF BIDS.
- PERFORM INSTALLATION IN ACCORDANCE WITH CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND APPLICABLE CODE ORDERS.
- EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

ONE-LINE DIAGRAM

- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER/DISCONNECT SWITCH
- MOTOR STARTER
- PANELBOARD, MAIN LUG ONLY
- PANELBOARD, MAIN CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- CIRCUIT BREAKER
- METER
- GROUND CONNECTION
- GENERATOR
- AM-CT AMMETER W/CONTROL TRANSFORMER
- AM-AS AMMETER W/SELECTOR SWITCH
- VM-CS VOLT-METER W/SELECTOR SWITCH
- FUSE
- CONTACTOR
- COMBINATION VFD/DISCONNECT SWITCH
- AUTOMATIC TRANSFER SWITCH WITH BYPASS
- MANUAL TRANSFER SWITCH
- FUSED MOTOR CIRCUIT
- PROTECTED MOTOR CIRCUIT
- TRANSFORMER (WYE/WYE)
- TRANSFORMER (DELTA/WYE)
- SPLICE
- RACEWAY BREAK SYMBOL, INDICATES CONTINUATION OF RACEWAY AND WIRING
- RACEWAY CAP SYMBOL, INDICATES CAPPED AND SEALED RACEWAY
- CONTACT, NORMALLY OPEN
- CONTACT, NORMALLY CLOSED

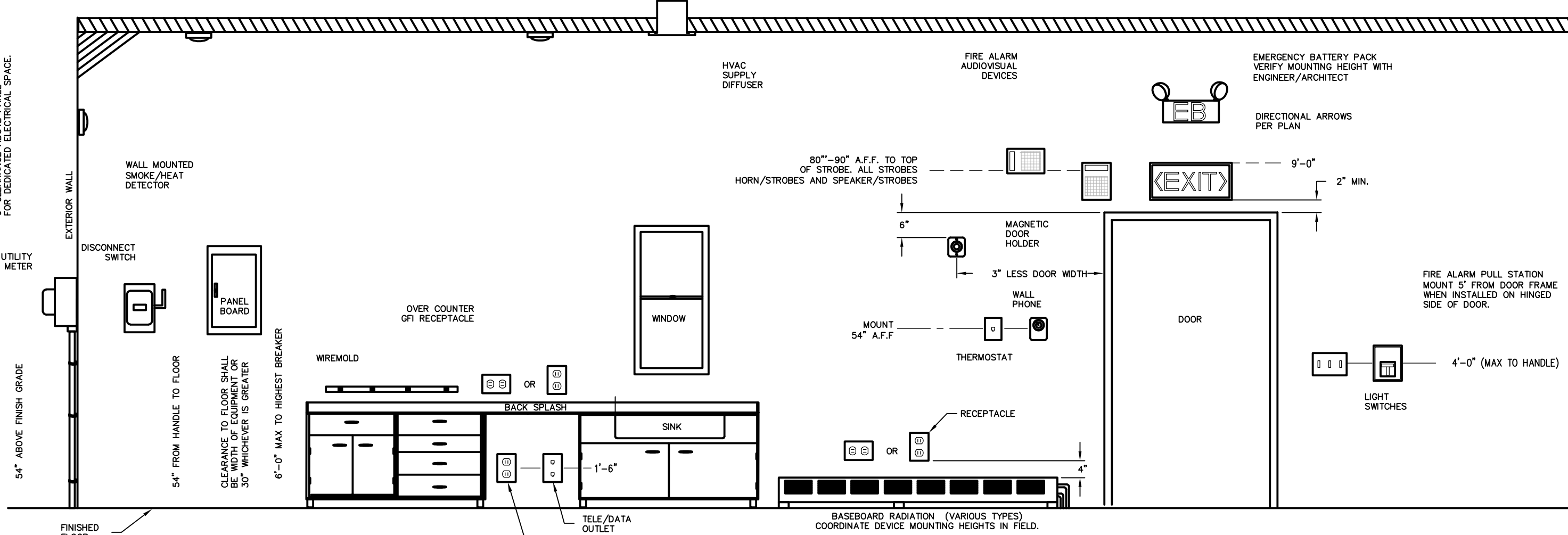
ABBREVIATIONS

- 3R NEMA 3R RATING
- 4X NEMA 4X RATING
- A AMPERES
- AC ALTERNATING CURRENT
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- ATC AUTOMATIC TEMPERATURE CONTROL
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISH GRADE
- CB CIRCUIT BREAKER
- cd CANDELA RATING
- CDP CAMPUS DISTRIBUTION FACILITY
- CKT CIRCUIT
- CLG CEILING
- C CONDUIT
- CU COPPER
- dB DEGREE
- DC DIRECT CURRENT
- DIA DIAMETER
- DN DOWN
- DWG DRAWING
- EAS ENVIRONMENTAL ALARM SYSTEM
- E.C. ELECTRICAL CONTRACTOR
- EF EXHAUST FAN
- ELEV ELEVATION
- EMT ELECTRICAL METALLIC TUBING
- ENC ELECTRIC WATER COOLER
- EXIST EXISTING
- F FUSE
- FA FIRE ALARM
- FLA FULL LOAD AMPERES
- FOC FIBER OPTIC CABLE
- FS FLOAT SWITCH
- G GROUND
- G.C. GENERAL CONTRACTOR
- GEN GENERATOR
- GFI-GROUND-FAULT CIRCUIT INTERRUPTER
- GRC GALVANIZED RIGID METALLIC CONDUIT
- IDF INTERMEDIATE DISTRIBUTION FRAME
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- KMIL THOUSAND CIRCULAR MILS
- KVA KILOWATTAMPERES
- KW KILOWATTS
- LFCM LIQUID TIGHT FLEXIBLE METAL
- LP LIGHTING
- LTC LIGHTING
- MC MINIMUM CIRCUIT AMPACITY
- MCA MINIMUM CIRCUIT AMPACITY
- MCC MAIN CIRCUIT BREAKER
- MCF MAIN DISTRIBUTION FACILITY
- MIN MINIMUM
- MLO MAIN LUG ONLY
- MOP MAXIMUM OVERCURRENT PROTECTION
- NC NORMALLY CLOSED
- NEMA NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NOT IN CONTRACT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- P PHASE
- PP POWER PANEL
- P POLE
- PVC POLYVINYL CHLORIDE
- RMC RIGID METAL CONDUIT
- SW SWITCH
- TYP TYPICAL
- UL UNDERWRITERS LABORATORIES
- VOLTS
- VFD VARIABLE FREQUENCY DRIVE
- W WIRE
- WP WEATHERPROOF
- WW WIREWAY
- XFM TRANSFORMER

SHEET LINETYPE LEGEND

- EXISTING EQUIPMENT TO REMAIN. MODIFICATIONS TO EXISTING EQUIPMENT ARE NOTED BY KEYED NOTES.
- EQUIPMENT TO BE REMOVED OR RELOCATED ON REMOULTION PLANS. RELOCATION WORK IS NOTED BY KEYED NOTES.
- NEW WORK AND/OR RELOCATED EQUIPMENT ON NEW WORK PLANS. RELOCATED EQUIPMENT IS NOTED BY KEYED NOTES.

NOTE: DRAWINGS SHALL BE PRINTED AND VIEWED IN COLOR. SCOPE OF WORK IS ILLUSTRATED IN COLOR.



TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

SCALE: NONE

NOTES:

- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT FIRE ALARM AUDIOVISUAL DEVICES AND EXIT SIGNS.
- DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
- ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS INDICATED ON THIS DETAIL UNLESS NOTED OTHERWISE. COORDINATE FINAL LOCATIONS OF ALL DEVICES WITH MILLWORK AND ARCHITECTURAL DRAWINGS.
- VERIFY ORIENTATION (HORIZONTAL OR VERTICAL) OF COUNTER RECEPTACLE WITH ENGINEER/ARCHITECT.
- ARCHITECTURAL ELEVATIONS AND SECTIONS SHALL SUPERSEDE THIS DETAIL WHEN IN CONFLICT.

KEY PLAN

DRAWING TITLE

ELECTRICAL LEGEND AND NOTES

JOB NUMBER: 1680.4
JOB TITLE:

GENERATOR REPLACEMENT
UNION STATION
WORCESTER, MA

CONSULTANT

Hallam ICS
AN EMPLOYEE OWNED COMPANY
575 West Street, Suite 220
Mansfield, MA 02048
Tel: 508.821.9759 www.Hallam-ICS.com

ARCHITECT

NAULT ARCHITECTS, INC.
71 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 755-8134
FAX: (508) 754-4681

DRAWING NO.

E0.0

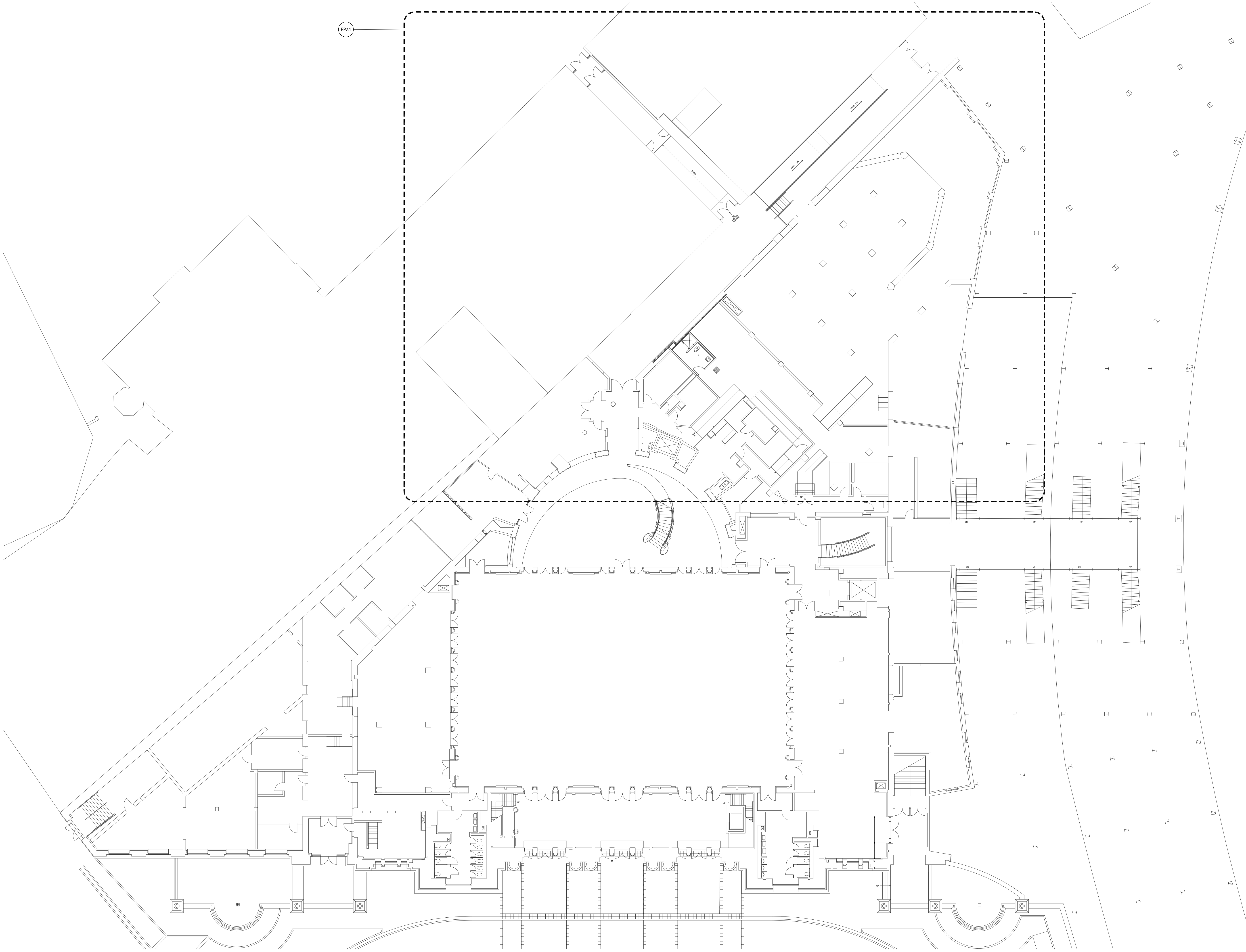
SCALE

AS NOTED

DATE

MAY 2026

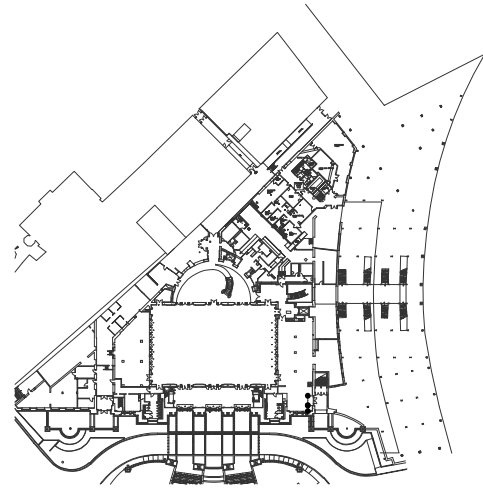
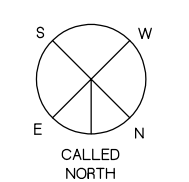
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GENERAL NOTES:
A. SEE DRAWING E001 FOR LEGEND AND ABBREVIATIONS.

KEY PLAN

KEY PLAN
NOT TO SCALE



DRAWING TITLE

ELECTRICAL FIRST FLOOR
LOCUST PLAN

JOB NUMBER: 1680.4
JOB TITLE:

GENERATOR REPLACEMENT
UNION STATION
WORCESTER, MA

CONSULTANT

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DRAWING NO.

E1.1

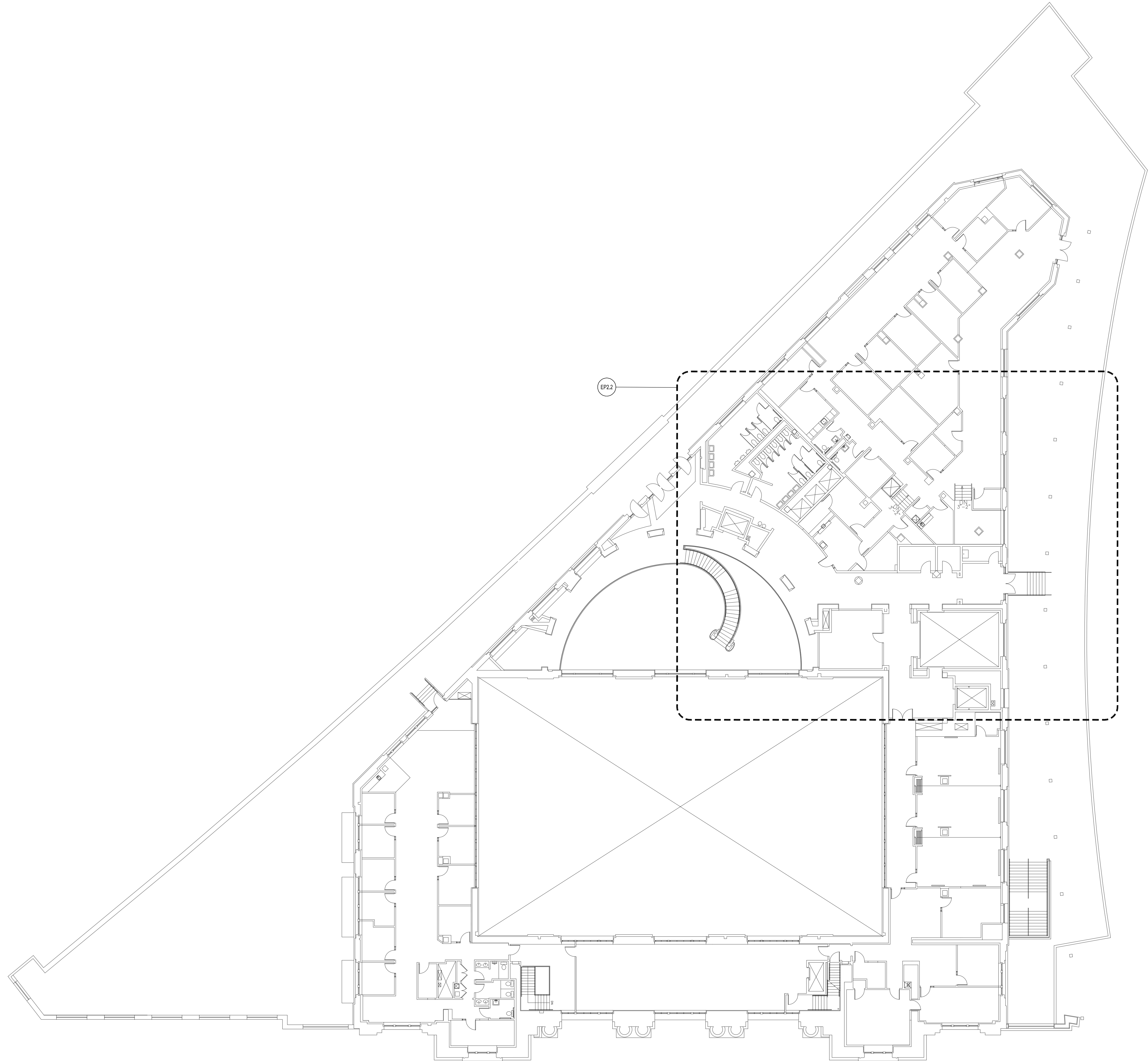
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1/16" = 1'-0"

DATE

MAY 2026

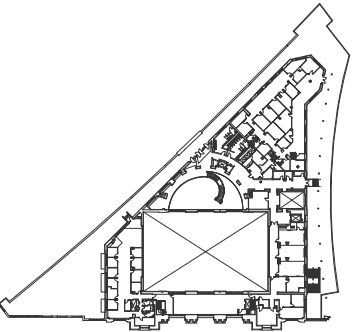
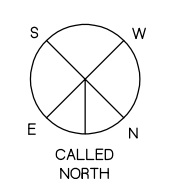
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GENERAL NOTES:
A. SEE DRAWING E0.0 FOR LEGEND AND ABBREVIATIONS.

KEY PLAN

KEY PLAN
NOT TO SCALE



DRAWING TITLE

ELECTRICAL SECOND FLOOR LOCUST PLAN

JOB NUMBER: 1680.4
JOB TITLE:

GENERATOR REPLACEMENT
UNION STATION
WORCESTER, MA

CONSULTANT

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TEL: (508) 755-8134
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DRAWING NO.

E1.2

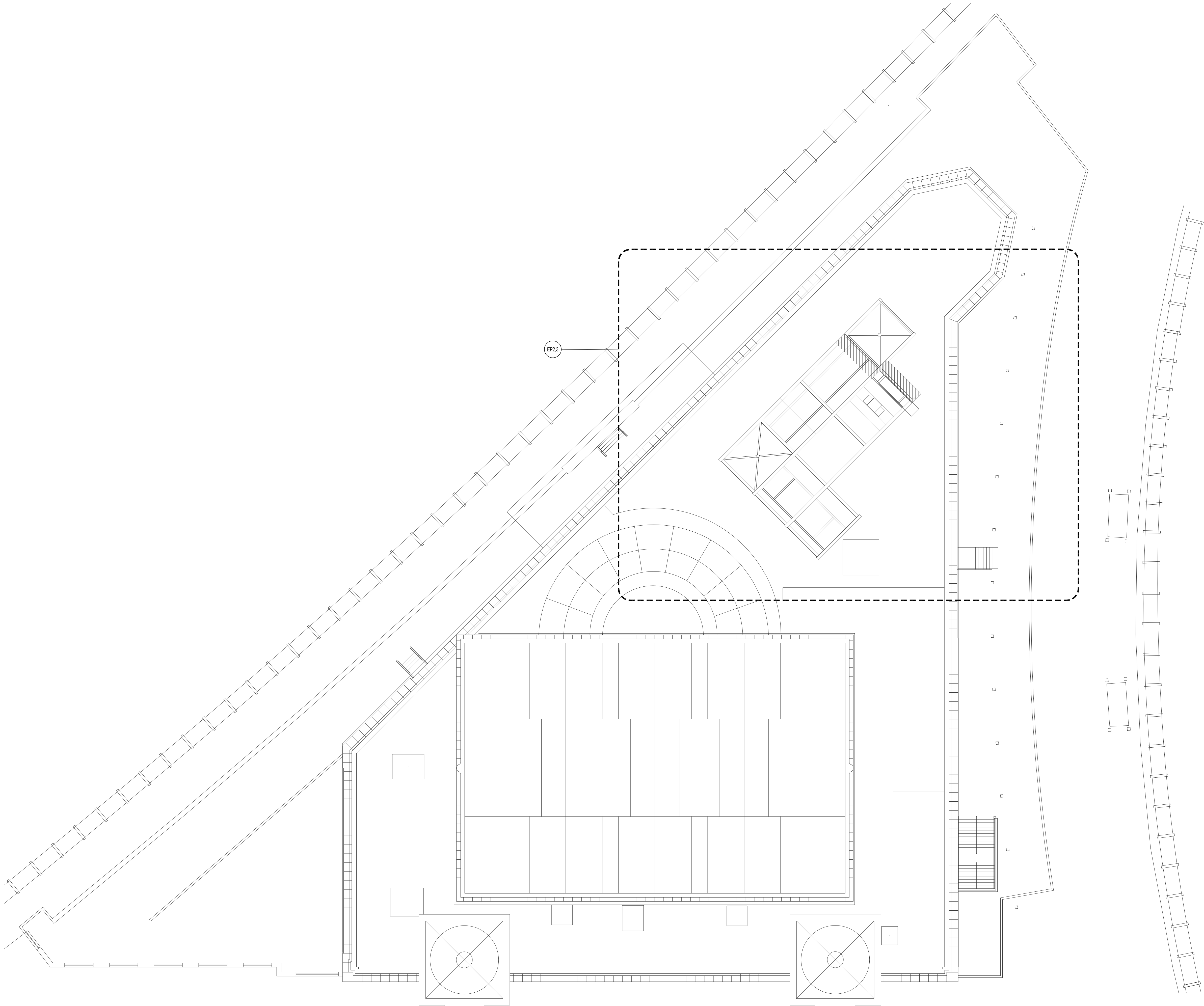
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1/16" = 1'-0"

DATE

MAY 2026

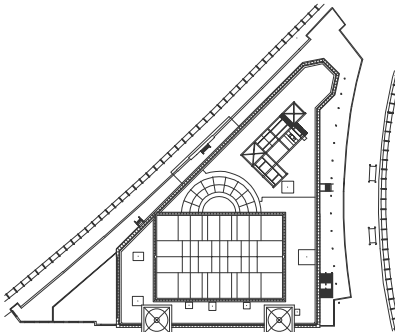
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GENERAL NOTES:
A. SEE DRAWING E0.0 FOR LEGEND AND ABBREVIATIONS.

KEY PLAN

KEY PLAN
NOT TO SCALE
CALLED
NORTH



DRAWING TITLE

ELECTRICAL ROOF LEVEL LOCUST PLAN

JOB NUMBER: 1680.4
JOB TITLE:

GENERATOR REPLACEMENT
UNION STATION
WORCESTER, MA

CONSULTANT

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ARCHITECT

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DRAWING NO.

E1.3

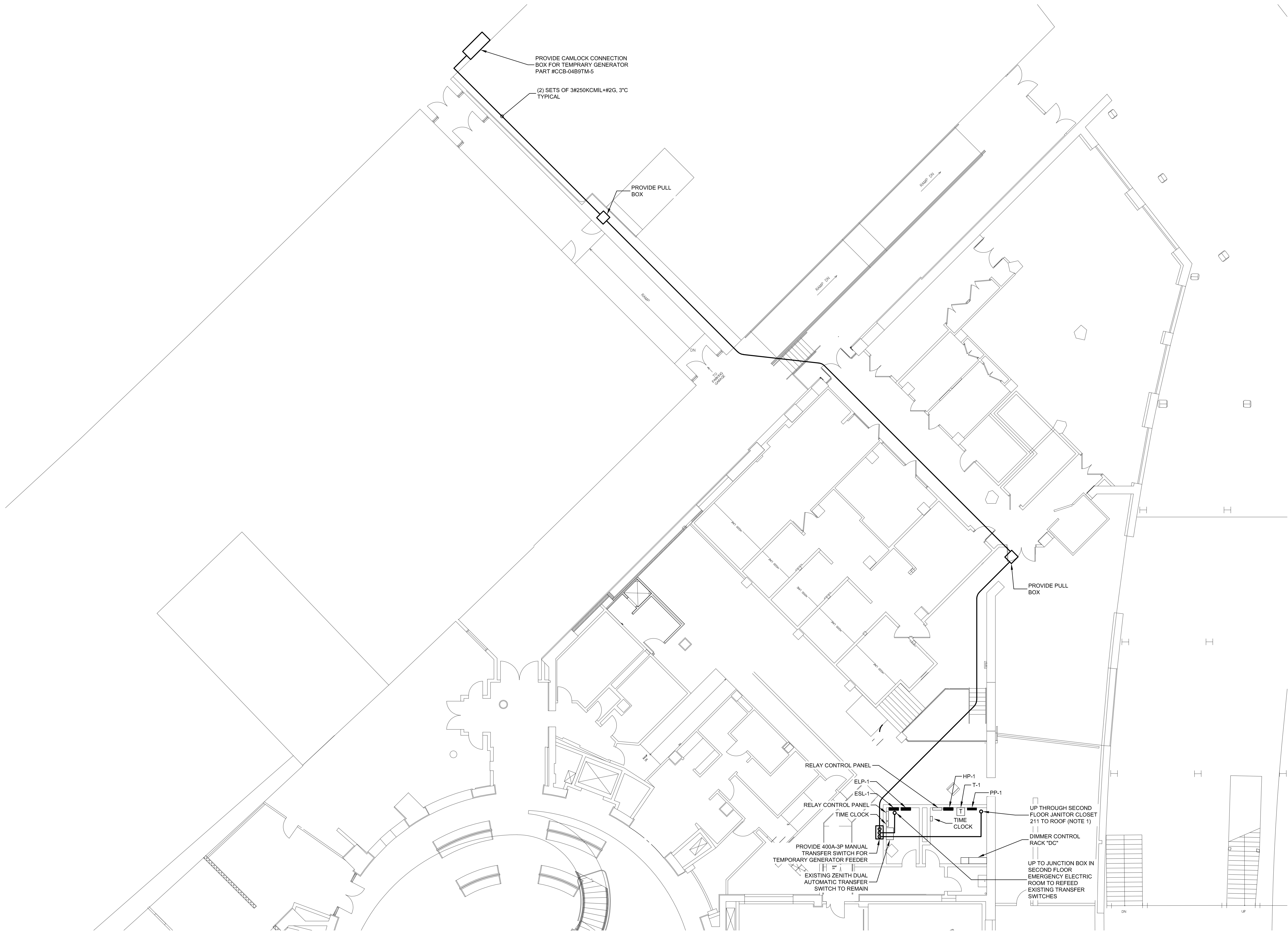
SCALE

3/32" = 1'-0"

DATE

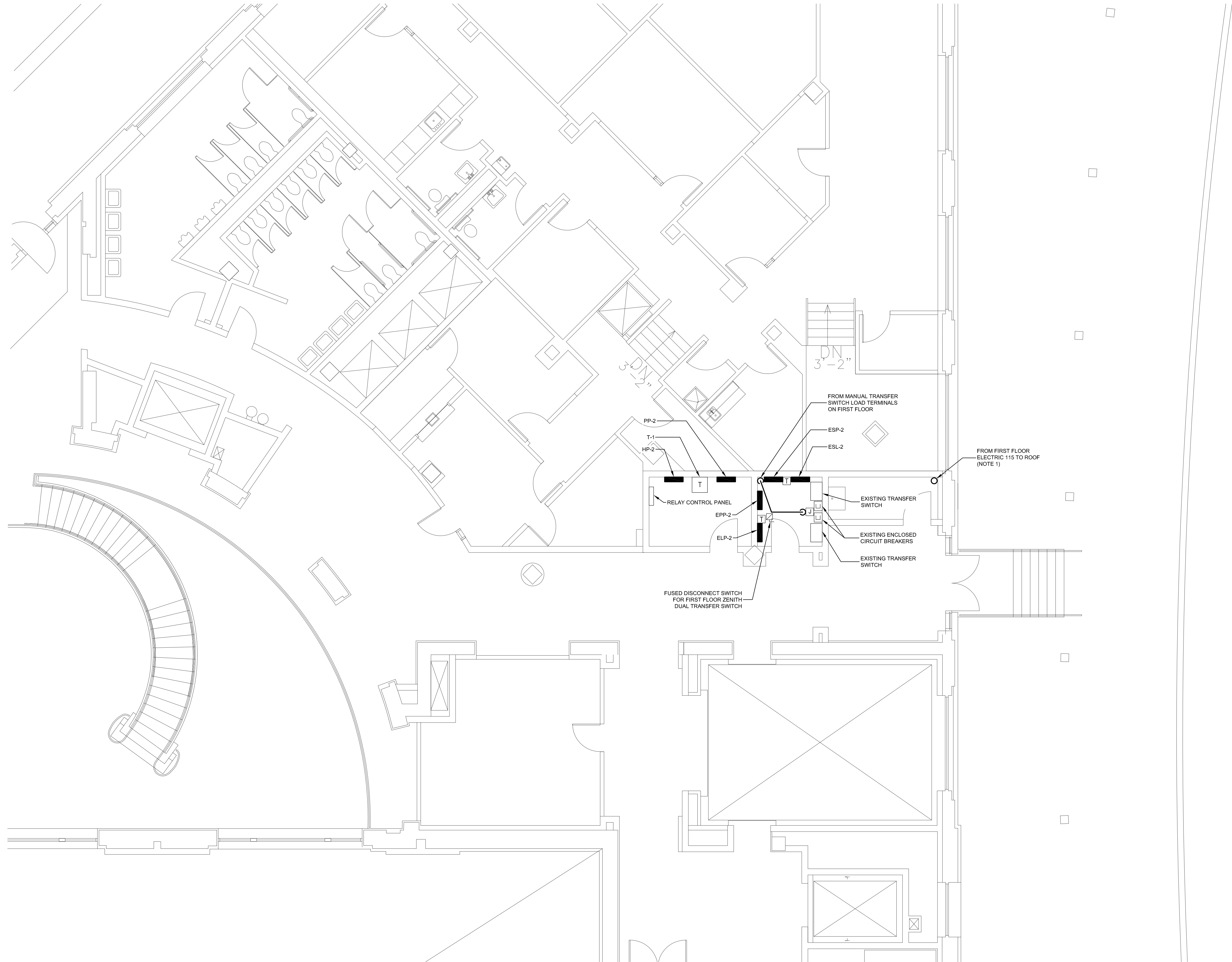
MAY 2026

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GENERAL NOTES: A. SEE DRAWING E0.0 FOR LEGEND AND ABBREVIATIONS. KEYED NOTES: 1. CONDUIT EXITING FROM THIS POINT SHALL RUN DOWN THROUGH BUILDING AND UNDERGROUND TO GENERATOR QUICK-CONNECT PANEL. REFER TO NEW WORK ONE-LINE DIAGRAM ON SHEET E2.1.	
KEY PLAN KEY PLAN NOT TO SCALE CALLLED NORTH	
DRAWING TITLE ELECTRICAL POWER FIRST FLOOR NEW WORK PLAN	
JOB NUMBER: 1680.4 JOB TITLE: GENERATOR REPLACEMENT UNION STATION WORCESTER, MA	
CONSULTANT Hallam ICS AN EMPLOYEE OWNED COMPANY 575 West Street, Suite 220 Mansfield, MA 02048 Tel: 508.821.9759 www.Hallam-ICS.com	
ARCHITECT NAULT ARCHITECTS, INC. 71 HOPE AVENUE WORCESTER, MA 01603 TEL: (508) 755-8134 FAX: (508) 754-4661	
DRAWING NO. EP2.1	
SCALE	DATE
3/32" = 1'-0"	MAY 2026

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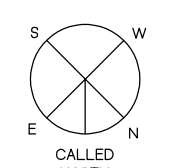


GENERAL NOTES:
A. SEE DRAWING E0.0 FOR LEGEND AND ABBREVIATIONS.

KEYED NOTES:
1. CONDUIT THROUGH THIS POINT SHALL RUN DOWN THROUGH BUILDING AND UNDERGROUND TO GENERATOR QUICK-CONNECT PANEL. REFER TO NEW WORK ONE-LINE DIAGRAM ON SHEET E2.1.

KEY PLAN

KEY PLAN NOT TO SCALE



DRAWING TITLE

ELECTRICAL POWER SECOND FLOOR
NEW WORK PLAN

JOB NUMBER: 1680.4
JOB TITLE:

GENERATOR REPLACEMENT
UNION STATION
WORCESTER, MA

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DRAWING NO.

EP2.2

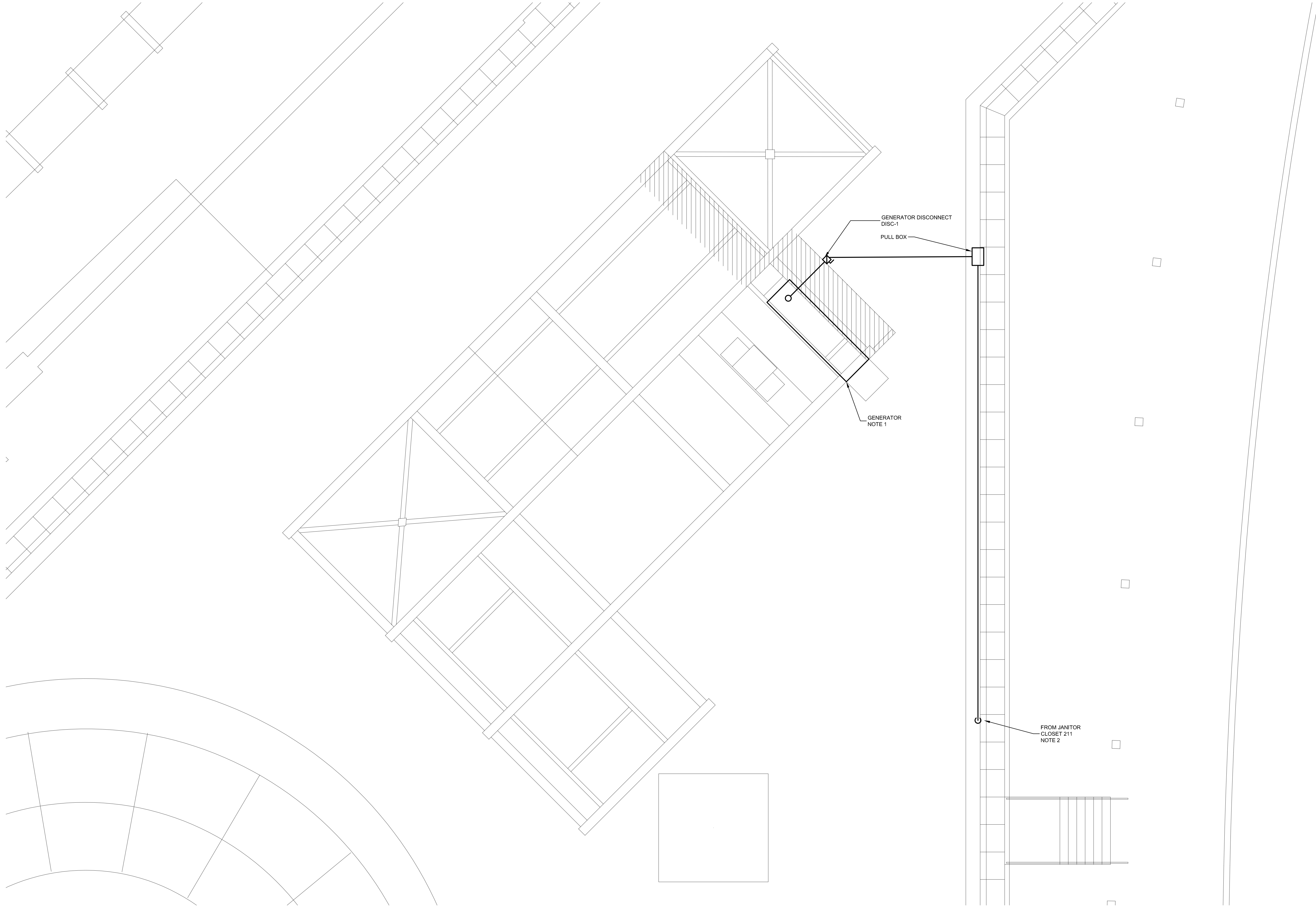
SCALE

3/16" = 1'-0"

DATE

MAY 2026

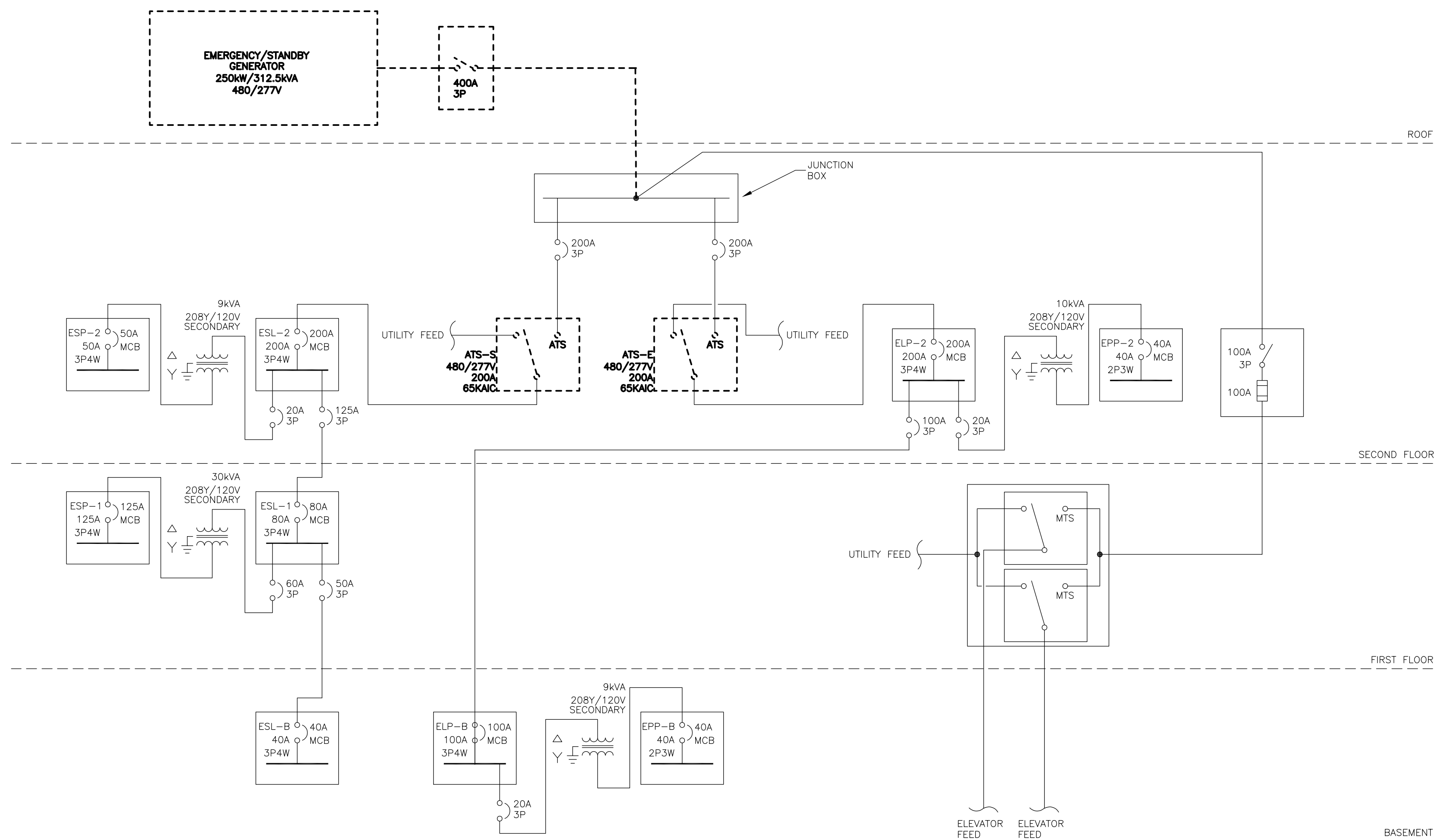
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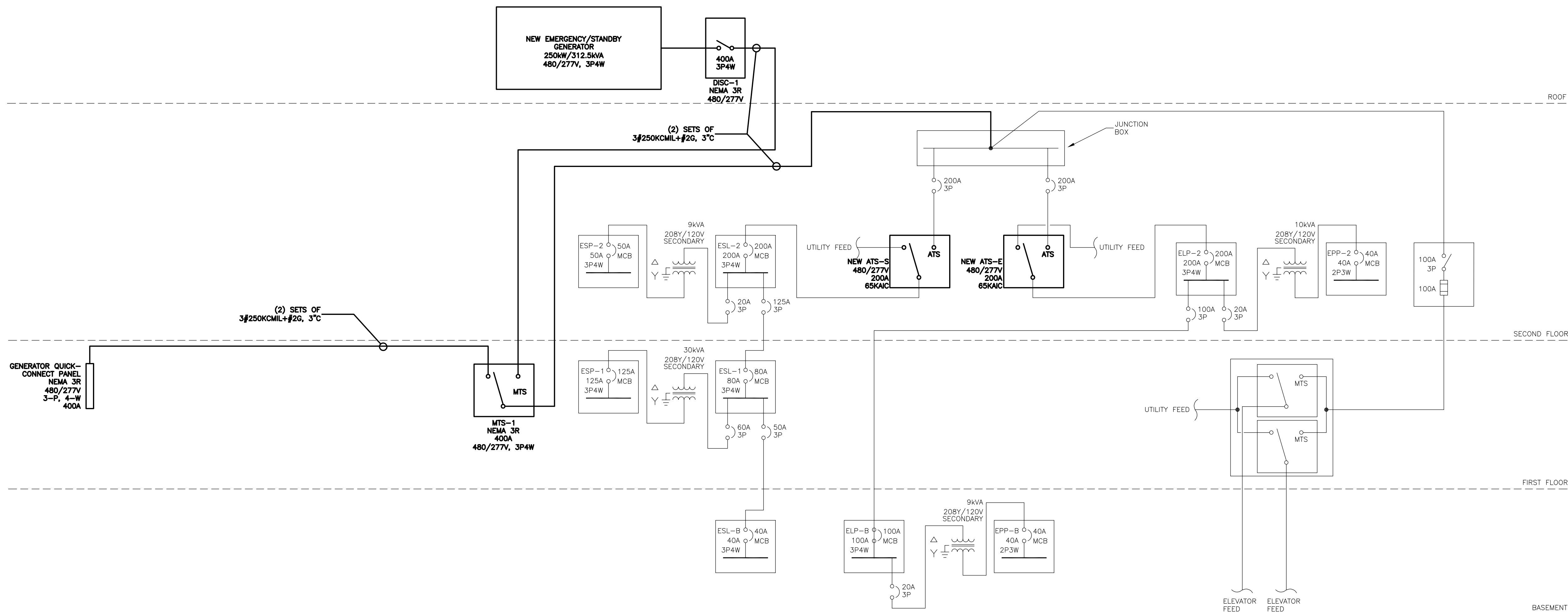
- GENERAL NOTES:
A. SEE DRAWING E0.0 FOR LEGEND AND ABBREVIATIONS.
- KEYED NOTES:
1. EXISTING GENERATOR SHALL BE REMOVED AND REPLACED WITH NEW GENERATOR IN KIND IN THE SAME LOCATION. EXISTING BLOCK HEATER AND BATTERY CHARGER CIRCUITS TOBE DISCONNECTED FROM EXISTING GENERATOR AND RETAINED FOR RECONNECTION TO NEW GENERATOR.
 2. CONDUIT EXITING FROM THIS POINT SHALL RUN DOWN THROUGH BUILDING AND UNDERGROUND TO GENERATOR QUICK-CONNECT PANEL. REFER TO NEW WORK ONE-LINE DIAGRAM ON SHEET E2.1.

KEY PLAN	
KEY PLAN NOT TO SCALE	
DRAWING TITLE	
ELECTRICAL POWER ROOF PLAN	
JOB NUMBER: 1680.4 JOB TITLE: GENERATOR REPLACEMENT UNION STATION WORCESTER, MA	
CONSULTANT Hallam ICS AN EMPLOYEE OWNED COMPANY 575 West Street, Suite 220 Mansfield, MA 02048 Tel: 508.821.9759 www.Hallam-ICS.com	
ARCHITECT NAULT ARCHITECTS, INC. 71 HOPE AVENUE WORCESTER, MA 01603 TEL: (508) 755-8134 FAX: (508) 754-4661	
DRAWING NO.	EP2.3
SCALE 3/16" = 1'-0"	DATE MAY 2026

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1 EMERGENCY ELECTRICAL – PARTIAL ONE-LINE DIAGRAM – DEMOLITION
NOT TO SCALE



2 EMERGENCY ELECTRICAL – PARTIAL ONE-LINE DIAGRAM – NEW WORK
NOT TO SCALE

KEY PLAN

DRAWING TITLE

EMERGENCY POWER ONE-LINE DIAGRAMS

JOB NUMBER: 1680.4

JOB TITLE:

GENERATOR REPLACEMENT
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DRAWING NO.

E3.0

SCALE

AS NOTED

DATE

MAY 2026