

WORCESTER FIRE DEPARTMENT

80 MCKEON ROAD FIRE STATION

GENERATOR UPGRADE

JANUARY 20, 2026

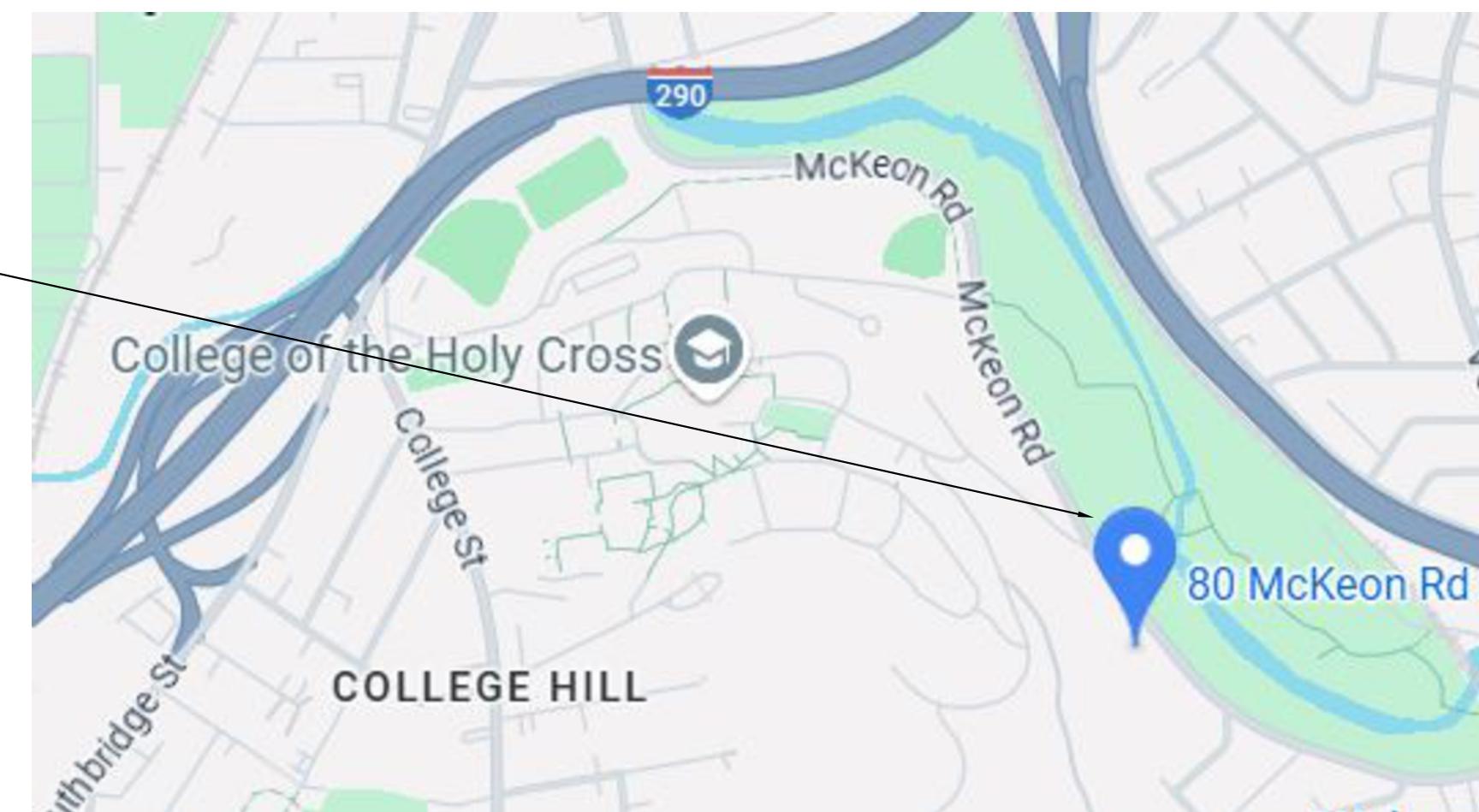


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**200 Brickstone Square,
Andover, MA 01810-1488**

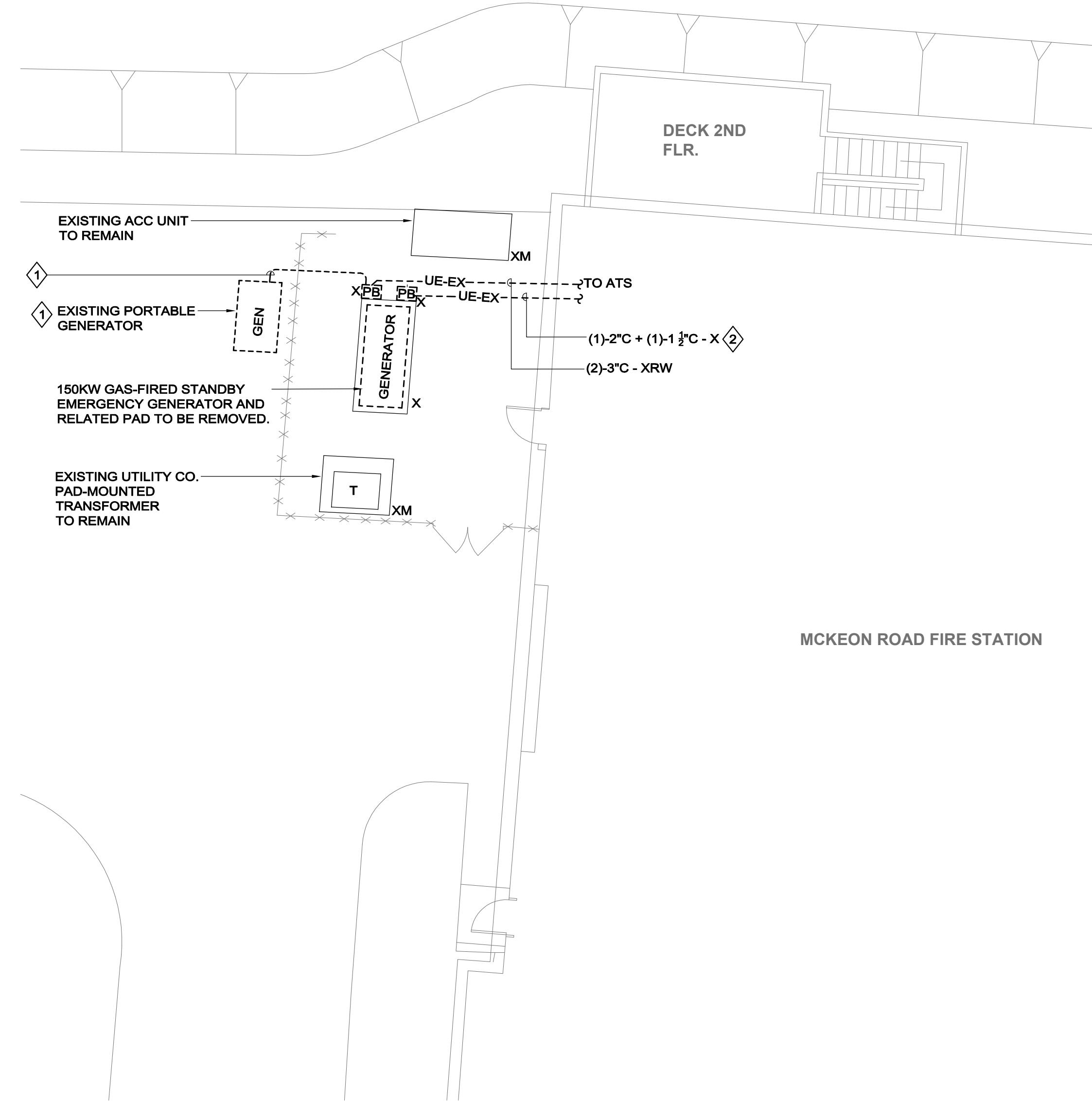
MCKEON ROAD FIRE STATION 80 MCKEON ROAD WORCESTER, MA

LOCALITY MAP



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 |



1

ELECTRICAL DEMOLITION SITE PLAN

E100

1/8" = 1'-0"

| 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:

1. ALL CONDUIT SHALL BE DIRECT BURIED. REFER TO DIRECT BURIED CONDUIT DETAIL ON DRAWING E400.
2. ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.
3. 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:

- 1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

NOTES:

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

NV5
200 Brickstone Square,
Andover, MA 01810-1488
T. 978-296-6200
www.nv5.com

STAMP

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CONSTRUCTION**

**PROJECT
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 |

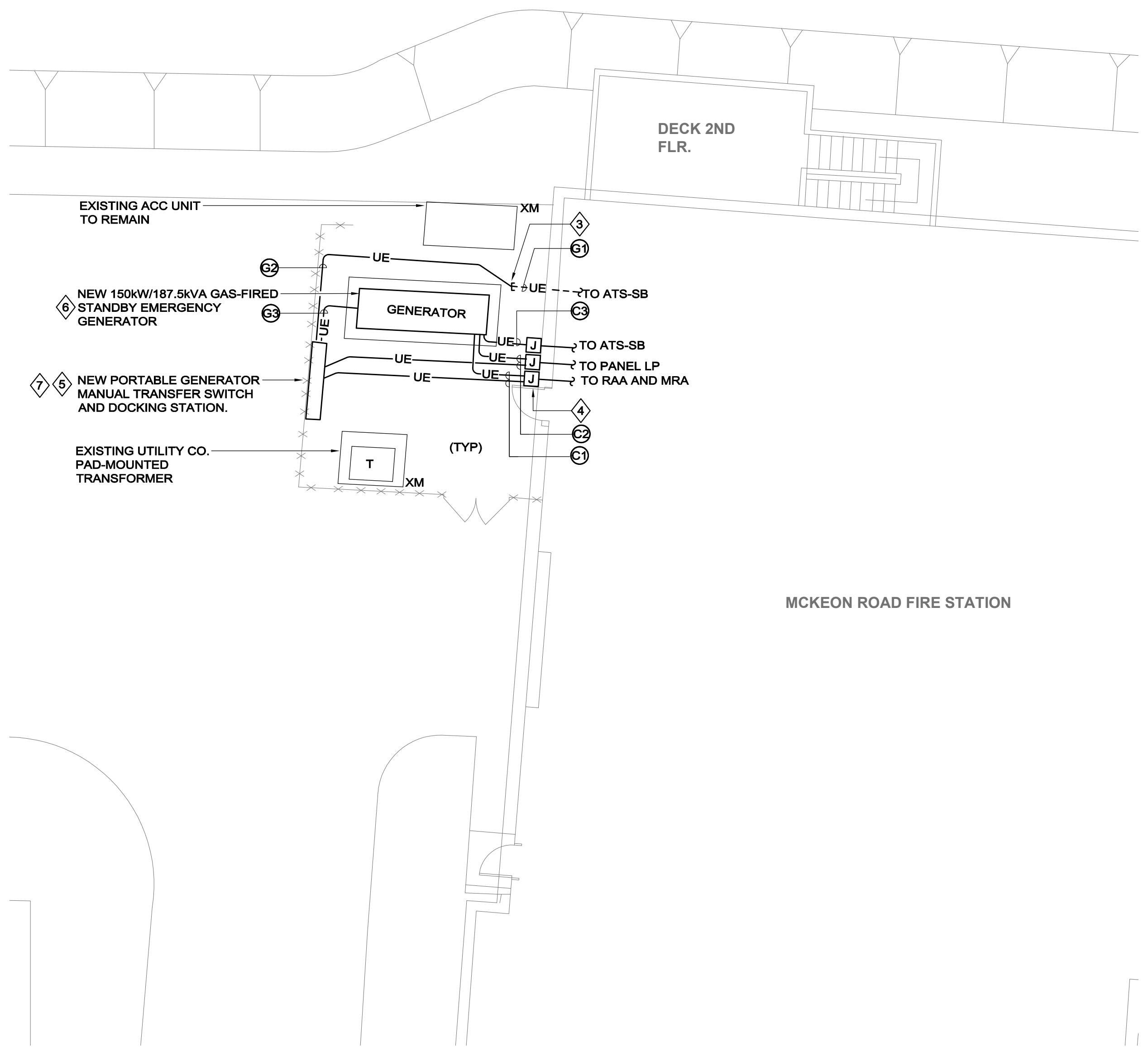
PROJECT NO.: 5940825-0003894
DESIGNED BY: MVM
CHECKED BY: KEG
DATE: 01/20/2026
SCALE: 1/8" = 1'-0"

SHEET NAME

**ELECTRICAL
SITE PLAN**

SHEET NUMBER

E100



2

ELECTRICAL NEW WORK SITE PLAN

E100

1/8" = 1'-0"

1/8" = 1'-0" 0 8' 16'

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**WORCESTER FIRE DEPARTMENT
WORCESTER
MCKEON ROAD FIRE
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80 MCKEON RD,
WORCESTER, MA 01607

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

SHEET NAME
**ELECTRICAL
GROUND FLOOR PLANS**

SHEET NUMBER

E200

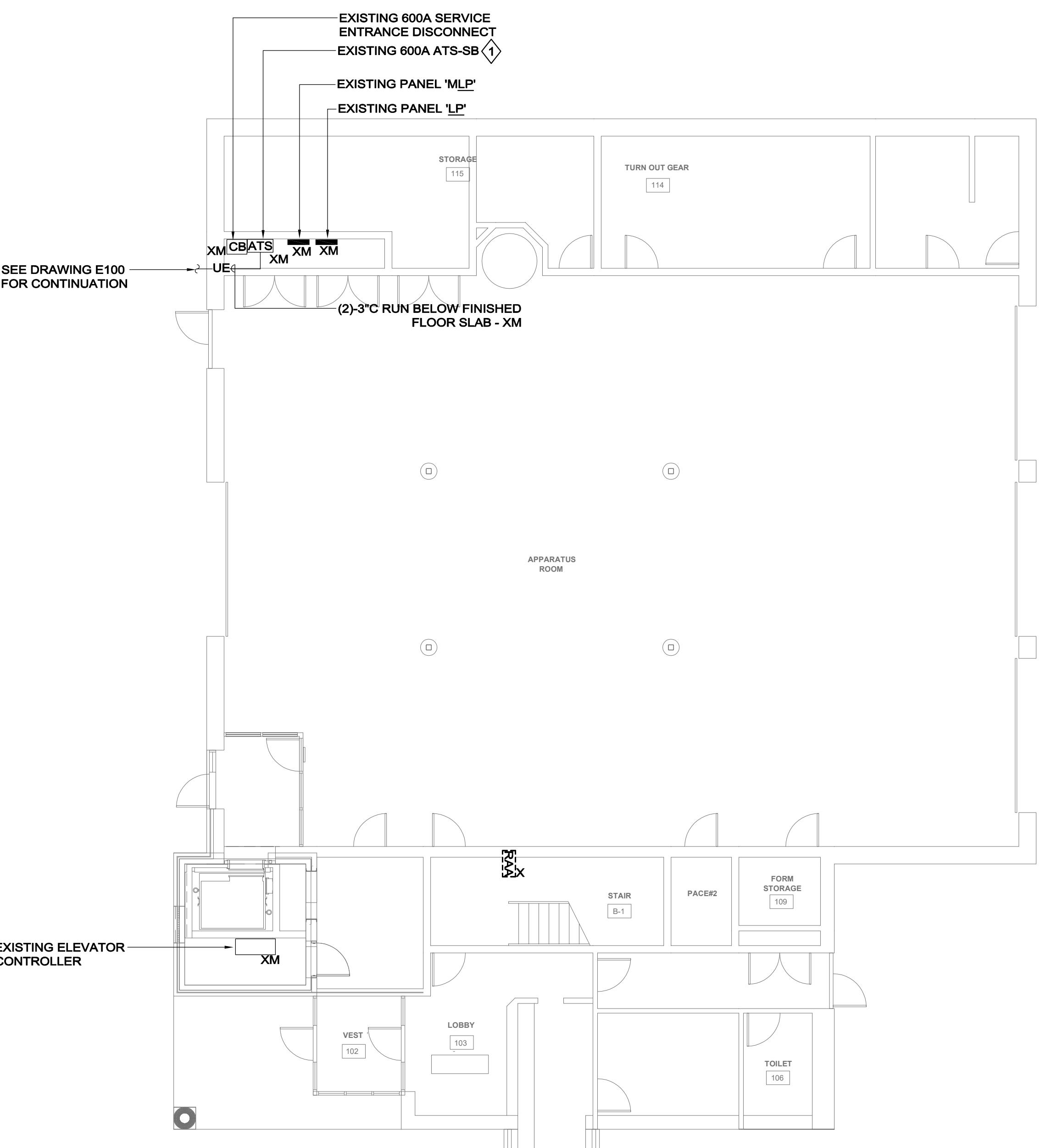
NOTES:

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

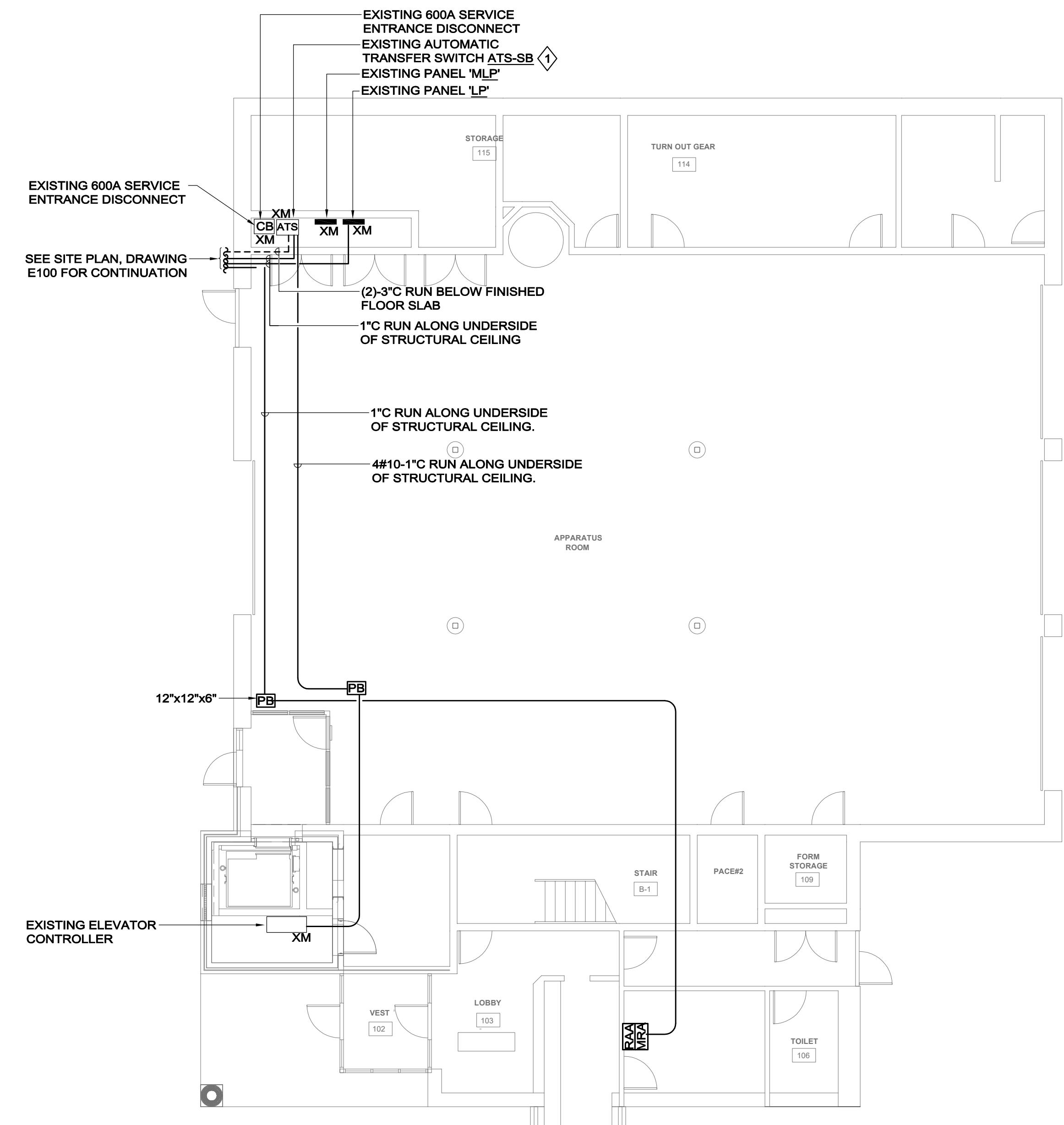
KEYNOTES

① 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.

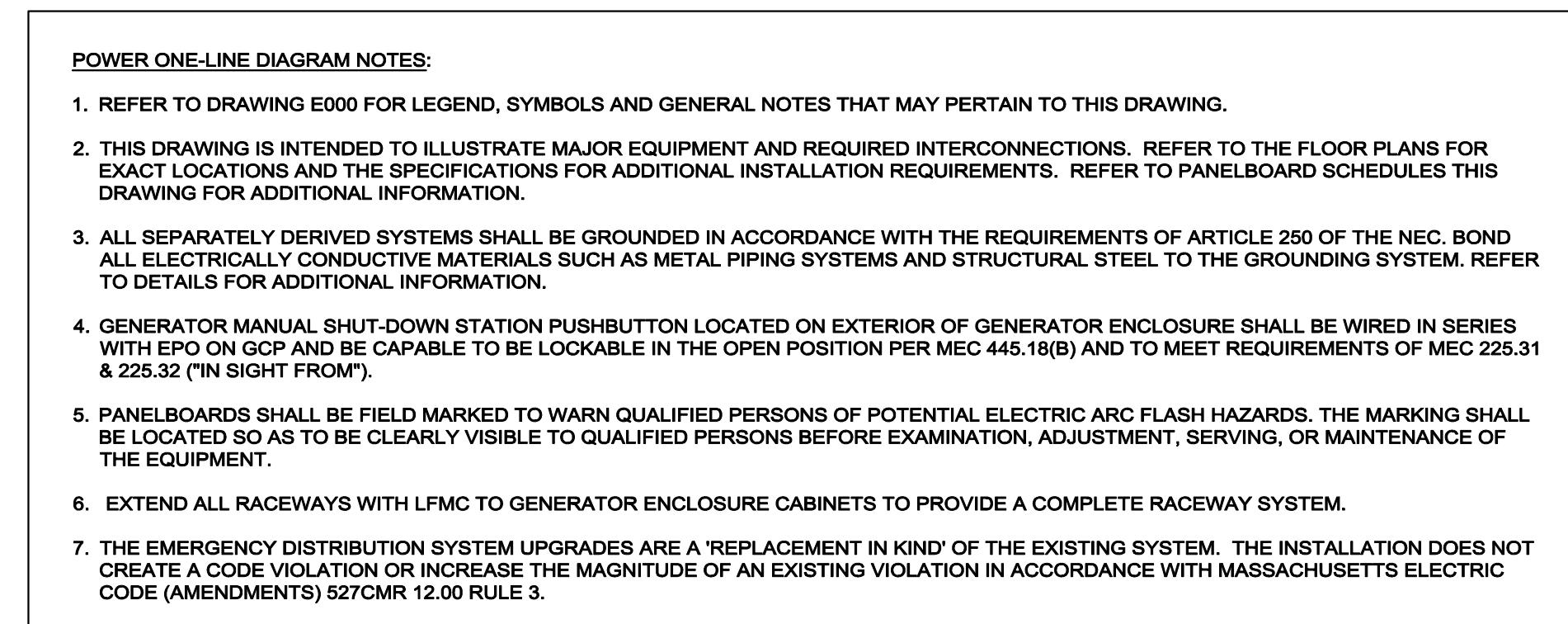
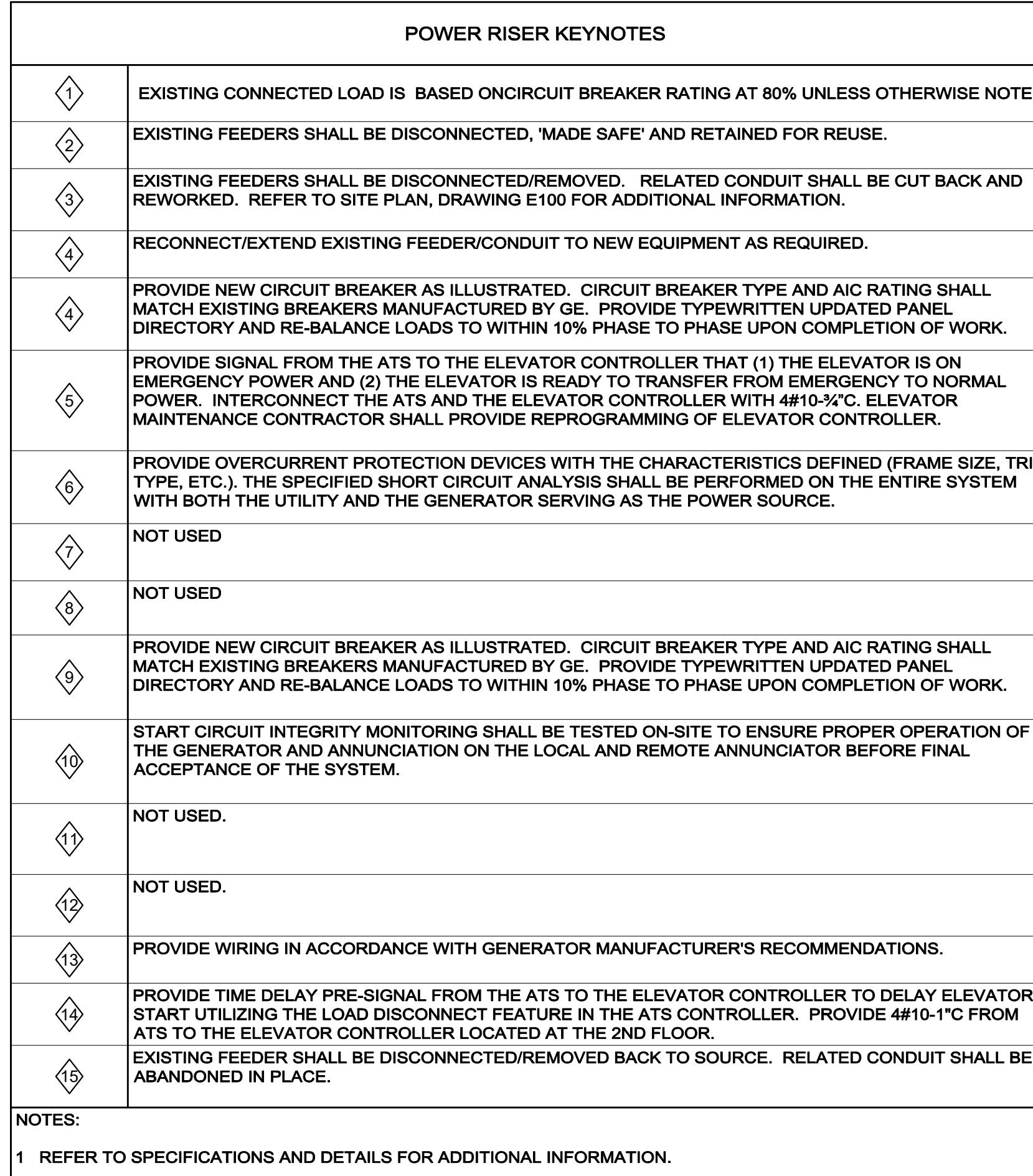
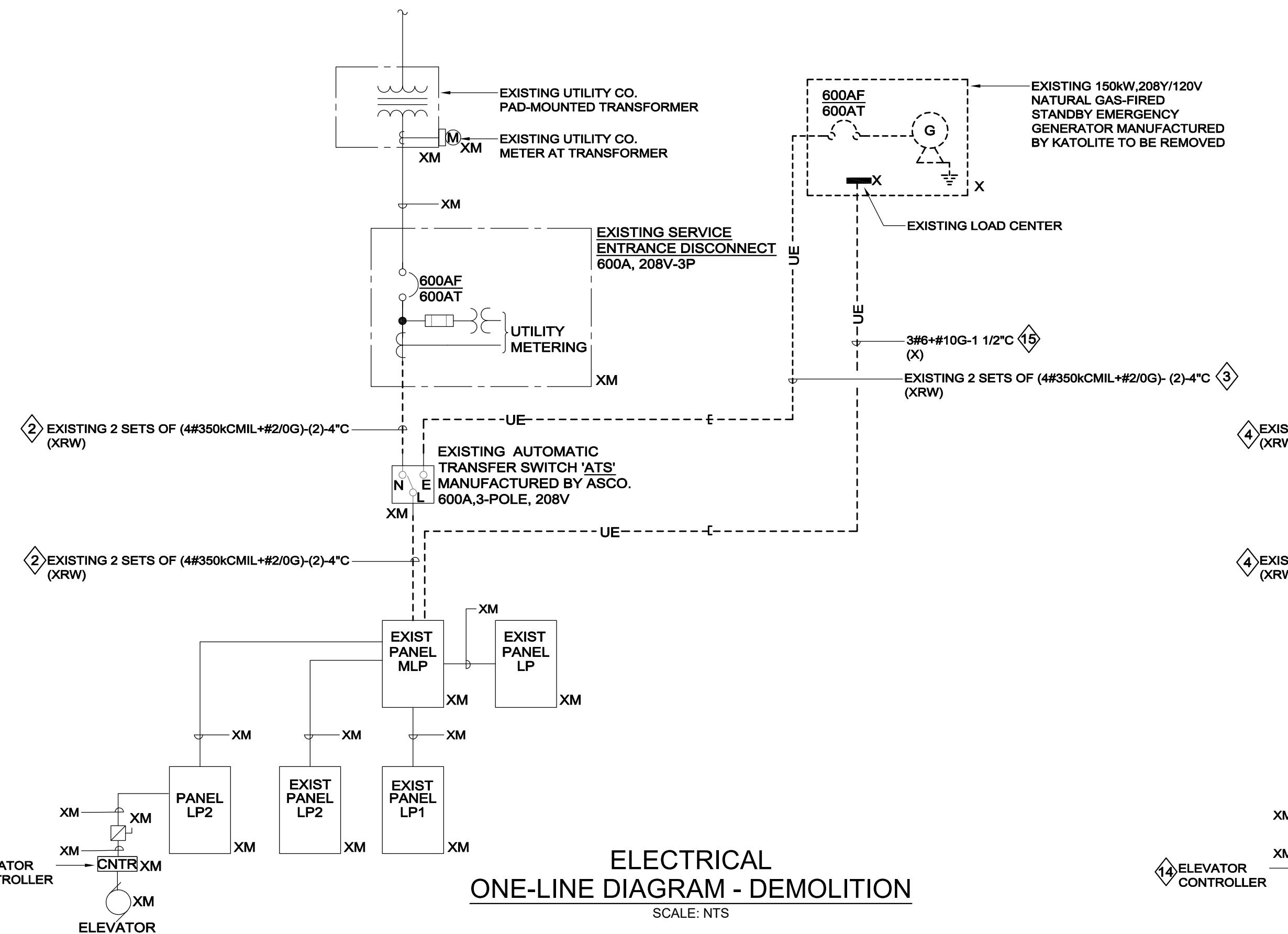
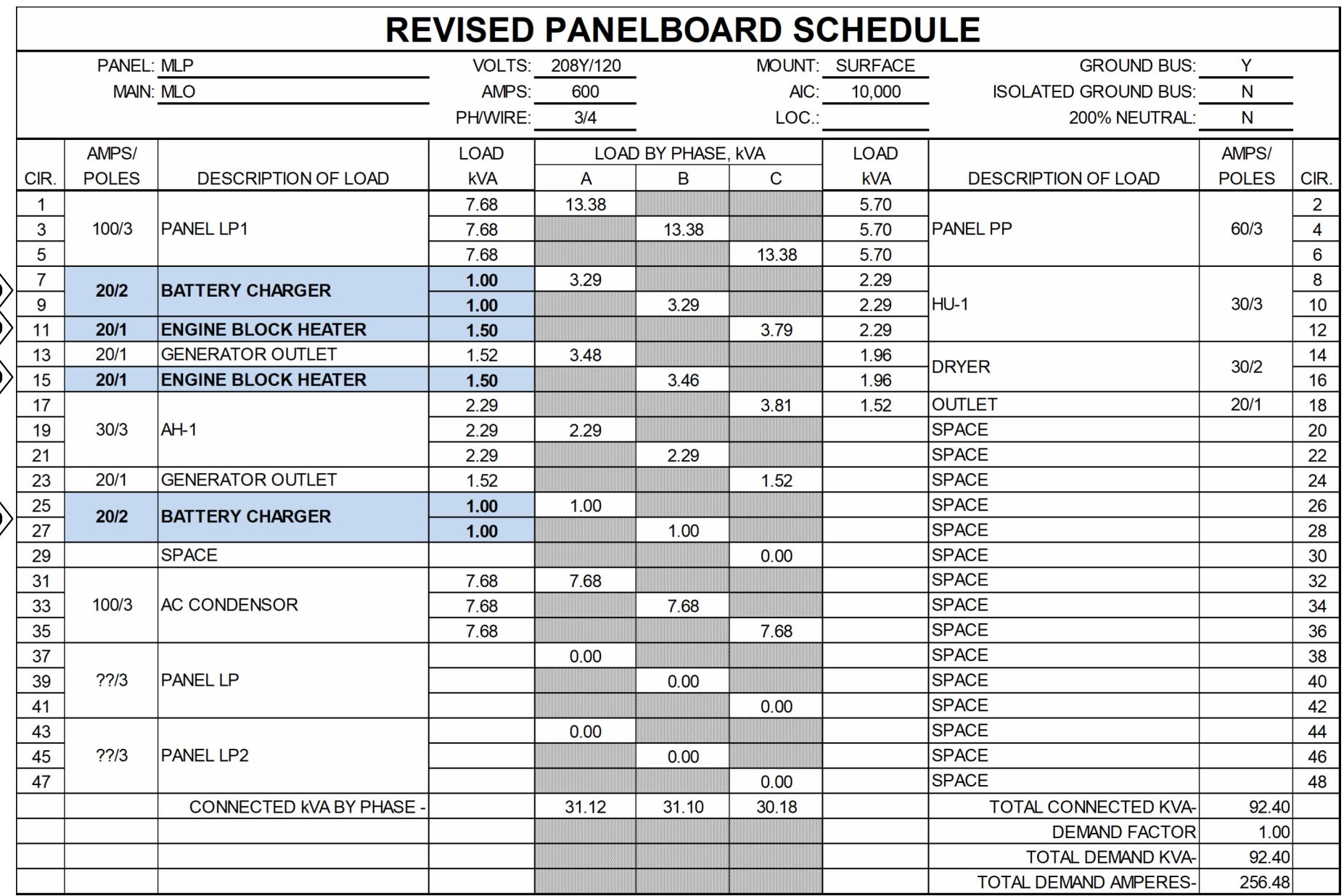
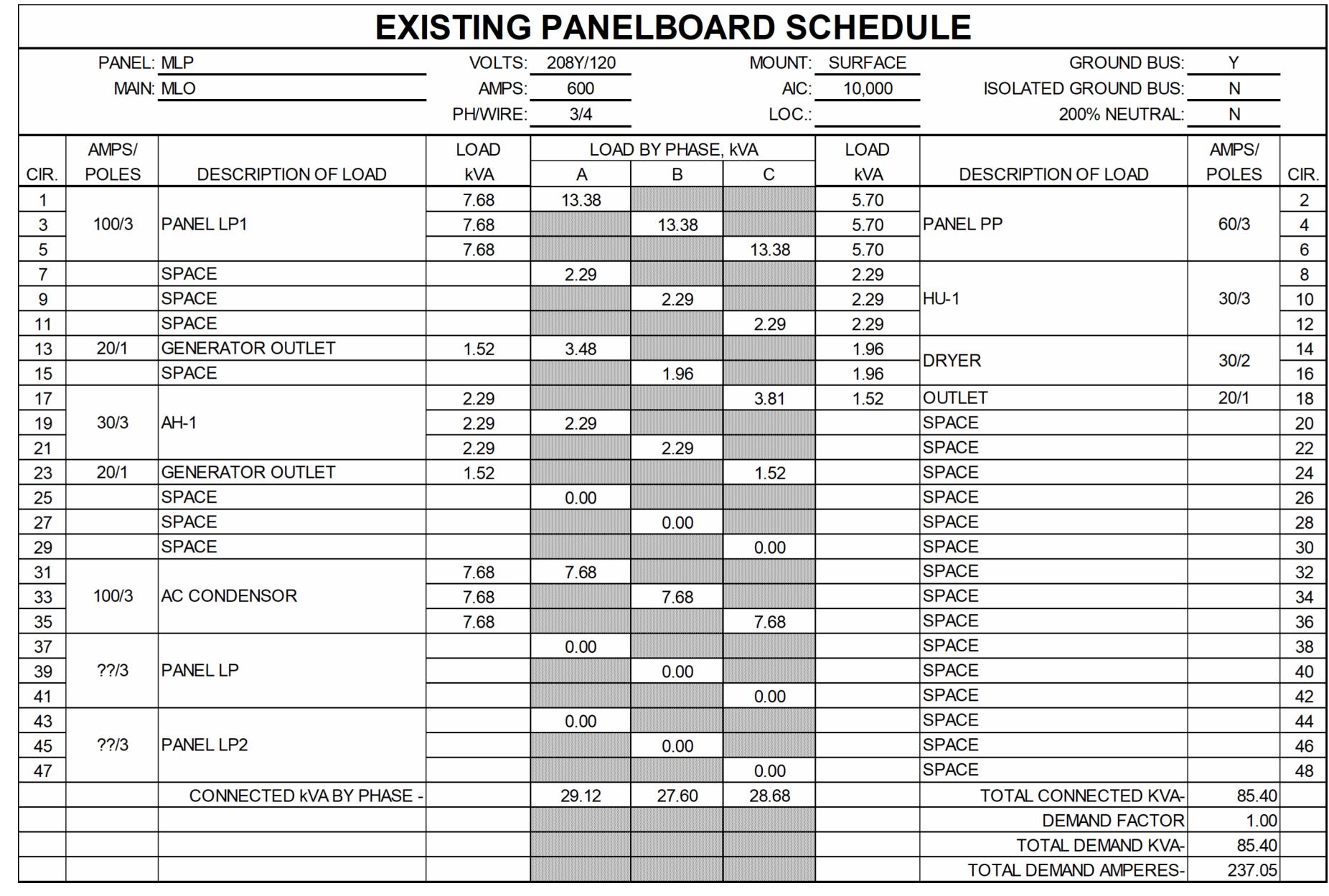


1 ELECTRICAL GROUND FLOOR DEMOLITION PLAN
E200 1/8" = 1'- 0"



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

1/8" = 1'- 0" 0 8' 16'



1

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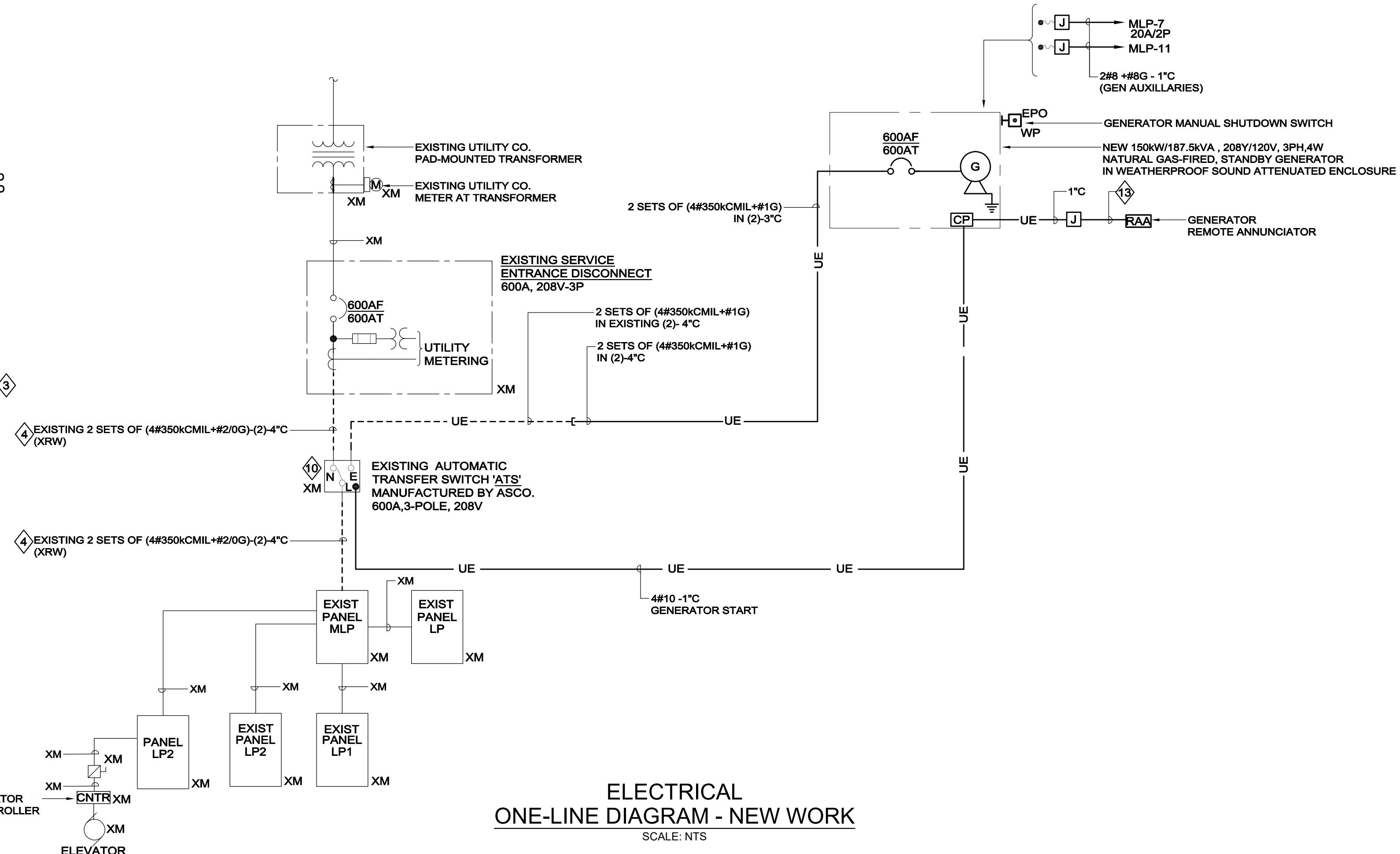
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CONSULTANT

PROJECT NAME

WORCESTER MCKEON ROAD FIR STATION GENERATOR UPGRADE

80 MCKEON RD,
WORCESTER, MA 01607



| REVISION/ISSUANCE | |
|-------------------|---------|
| DESCRIPTION | DATE |
| ISSUED FOR BID | 1/20/26 |
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| | |

NO.: 5940825-0003894
D BY: MVM
D BY: KEG

01.20.2026

NTS

ELECTRICAL NE-LINE DIAGRAM AND SCHEDULES

NUMBER
E300

E6000

STAMP

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STATUS
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PROJECT NAME
WORCESTER FIRE DEPARTMENTWORCESTER
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

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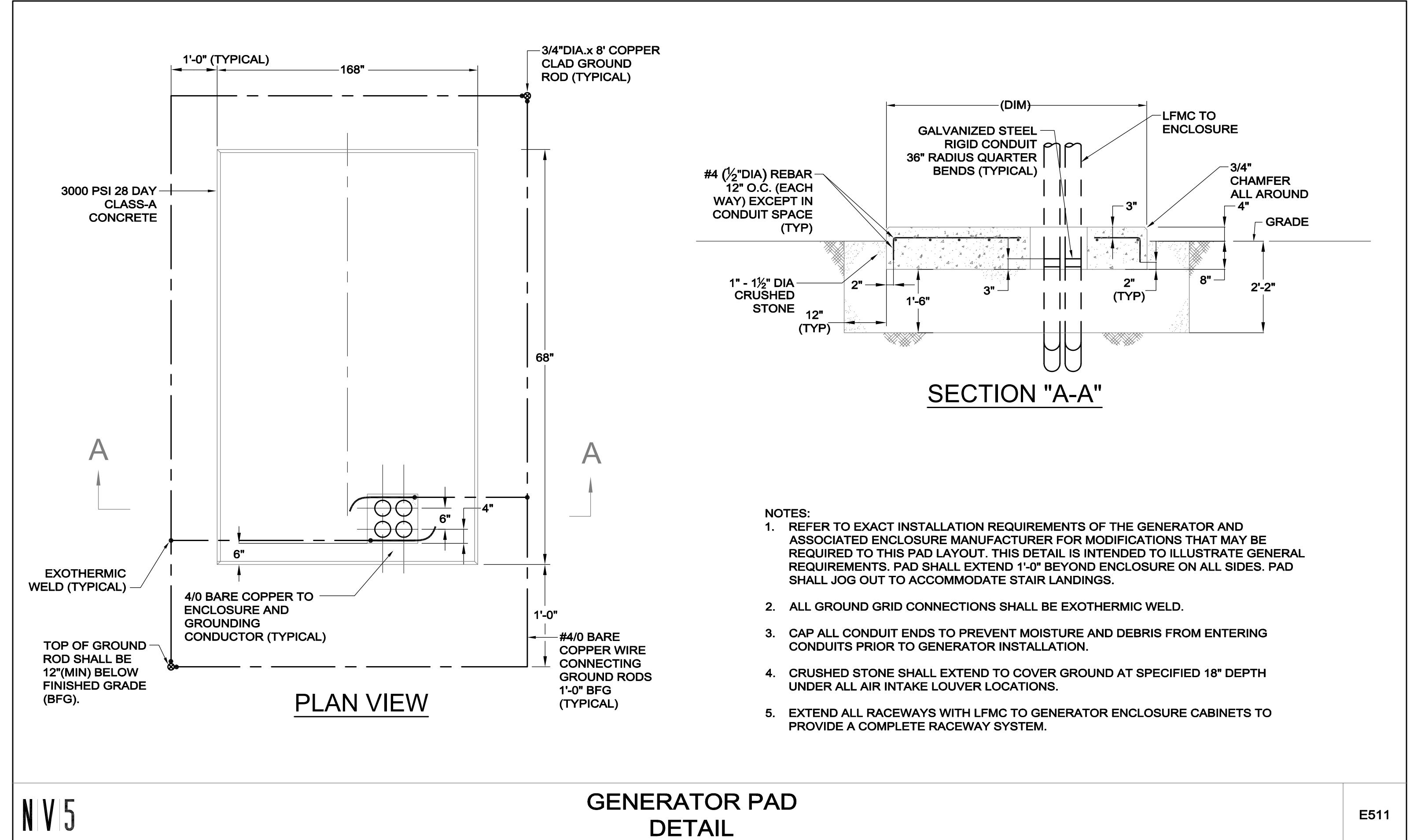
SCALE: NTS

SHEET NAME

ELECTRICAL
DETAILS

SHEET NUMBER

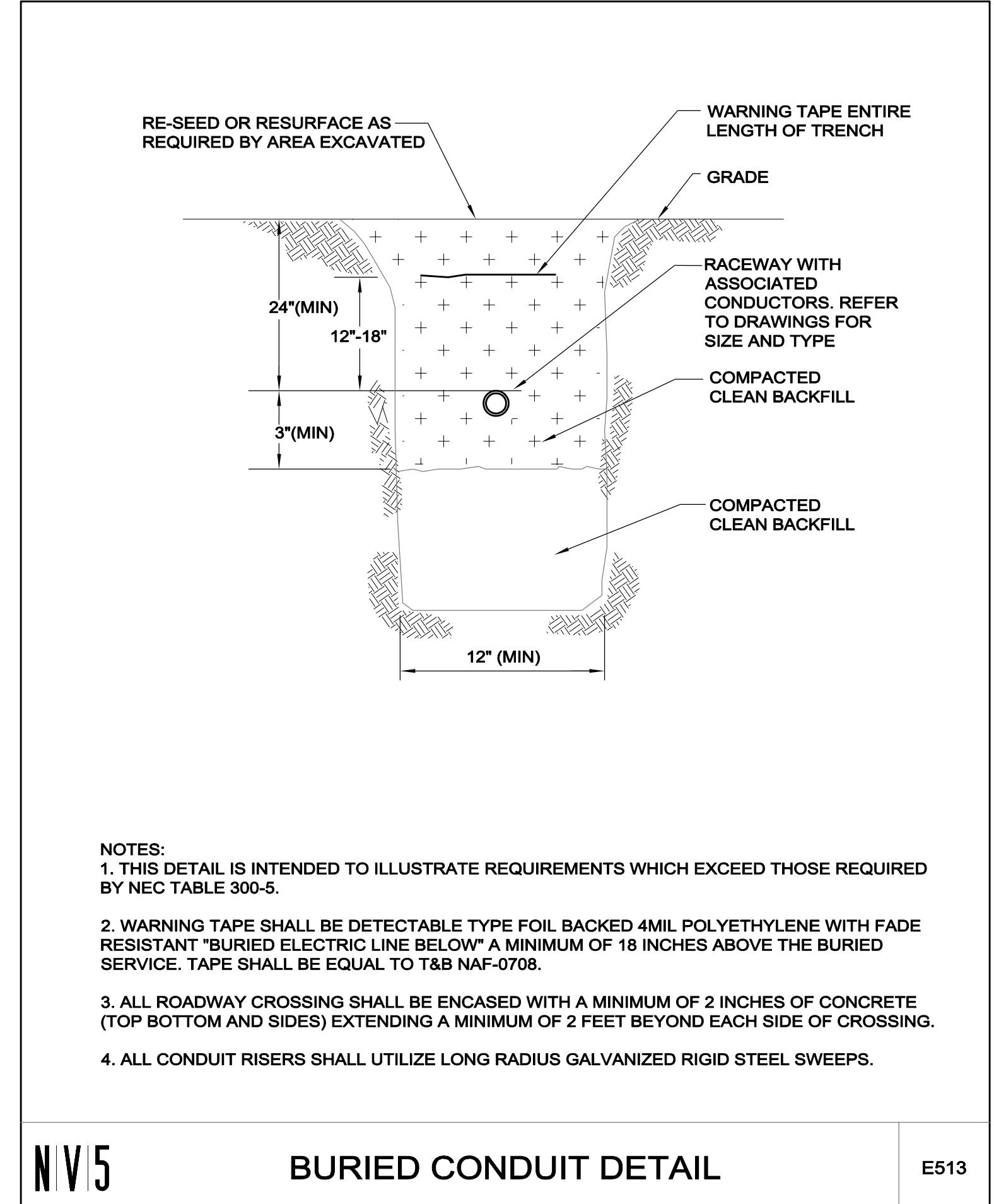
E400



NV5

GENERATOR PAD
DETAIL

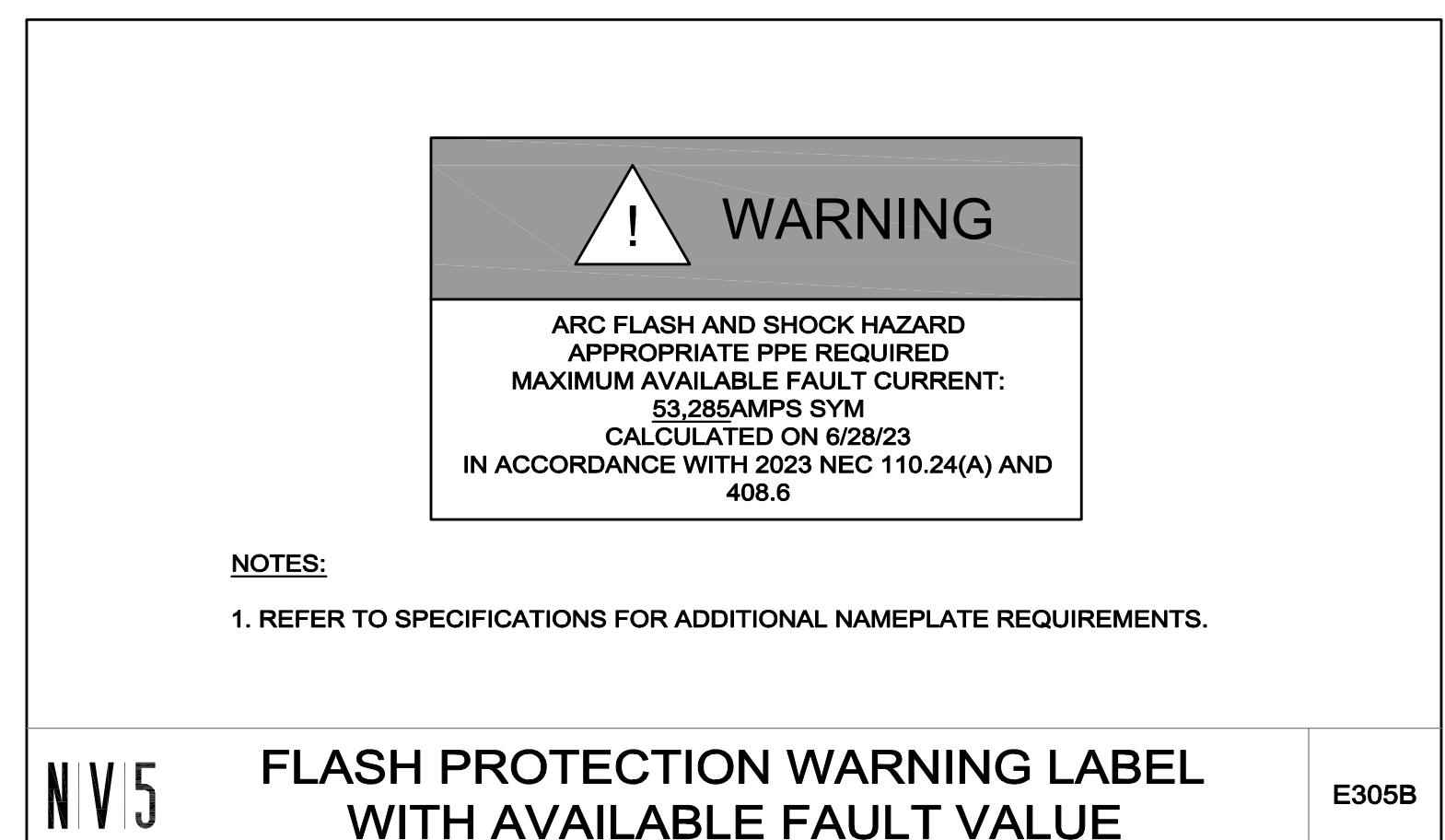
E511



NV5

BURIED CONDUIT DETAIL

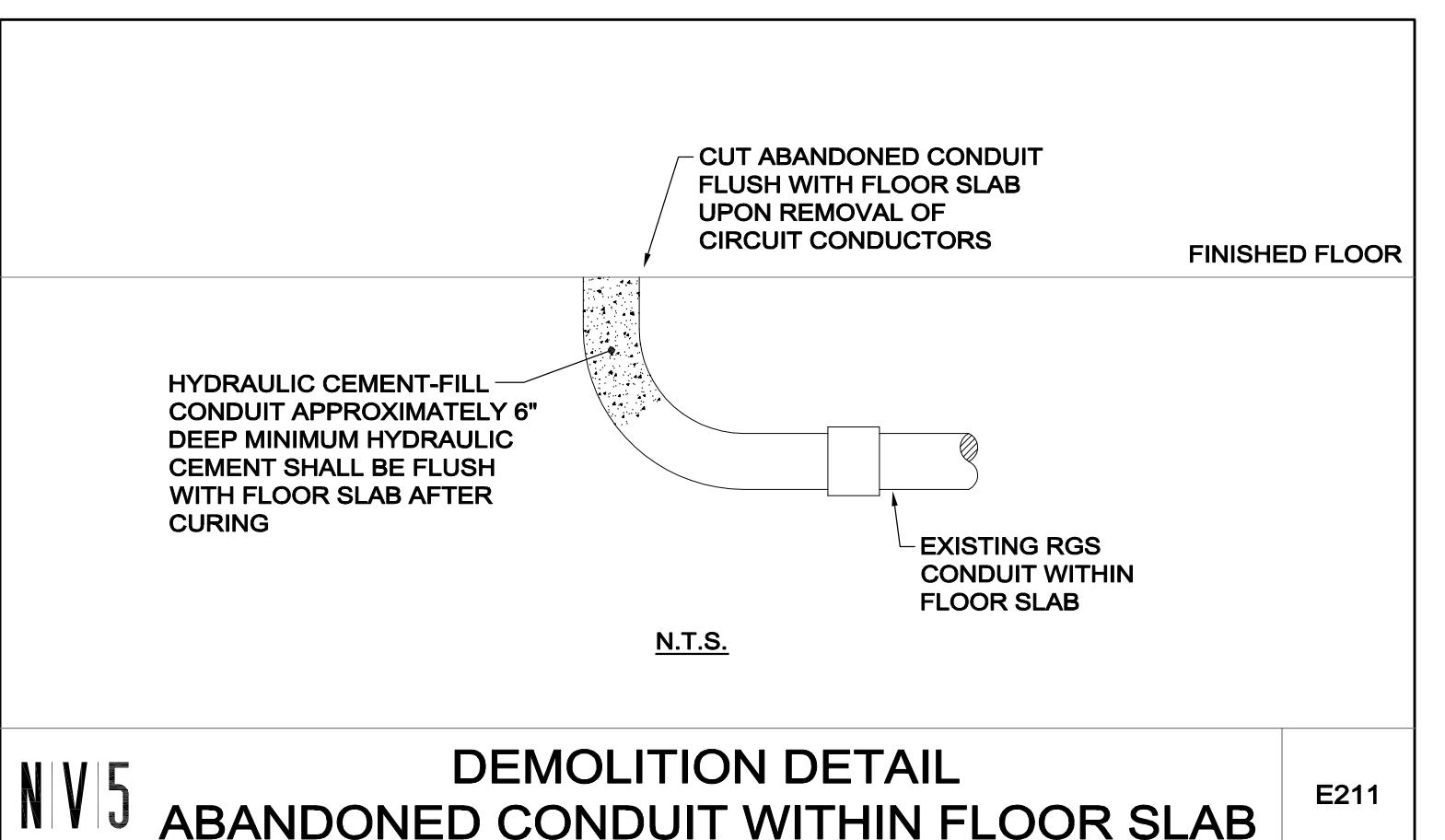
E513



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FLASH PROTECTION WARNING LABEL
WITH AVAILABLE FAULT VALUE

E305B



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DEMOLITION DETAIL
ABANDONED CONDUIT WITHIN FLOOR SLAB

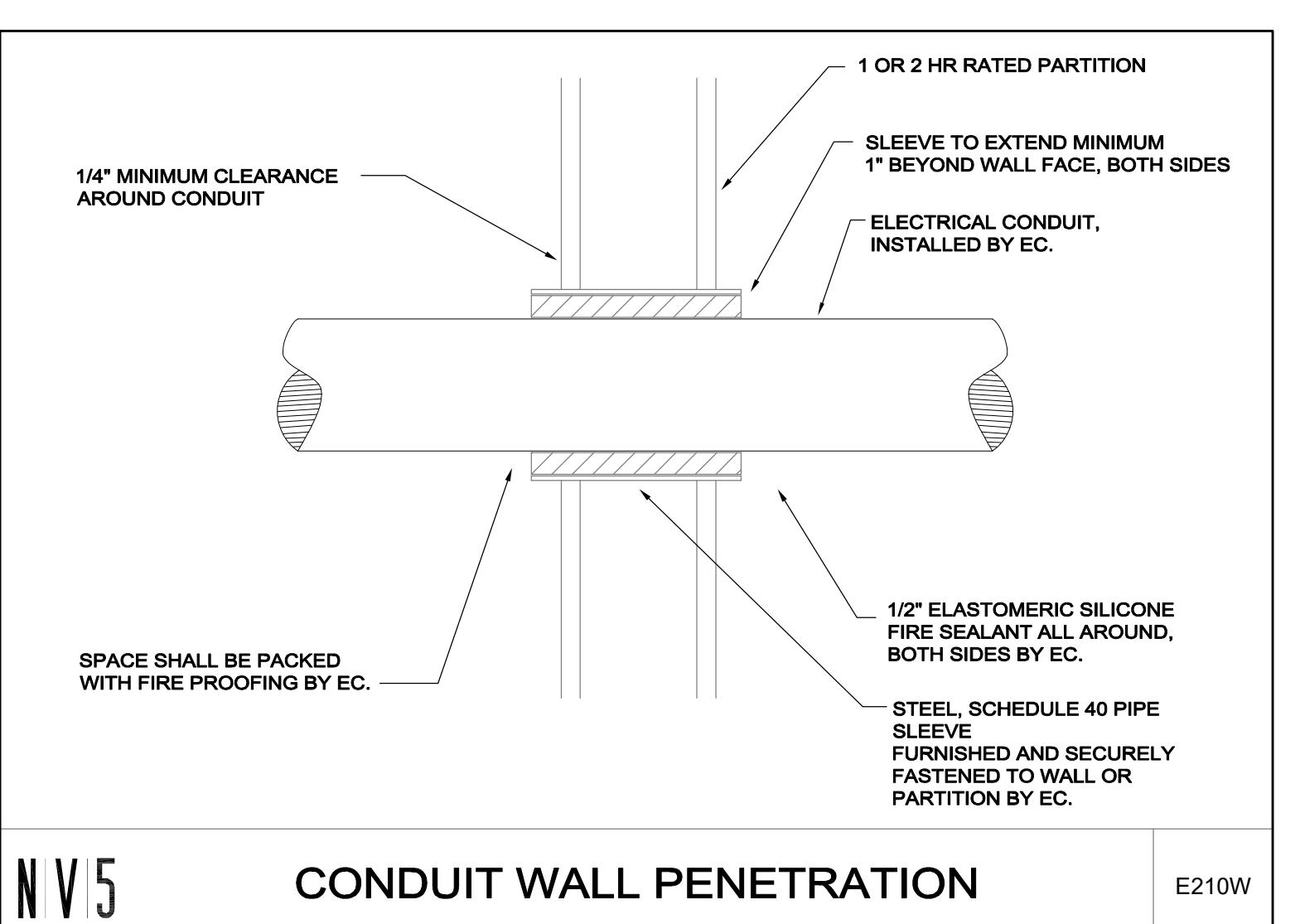
E211



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TYPICAL ENGRAVED PLASTIC
NAMEPLATE DETAIL

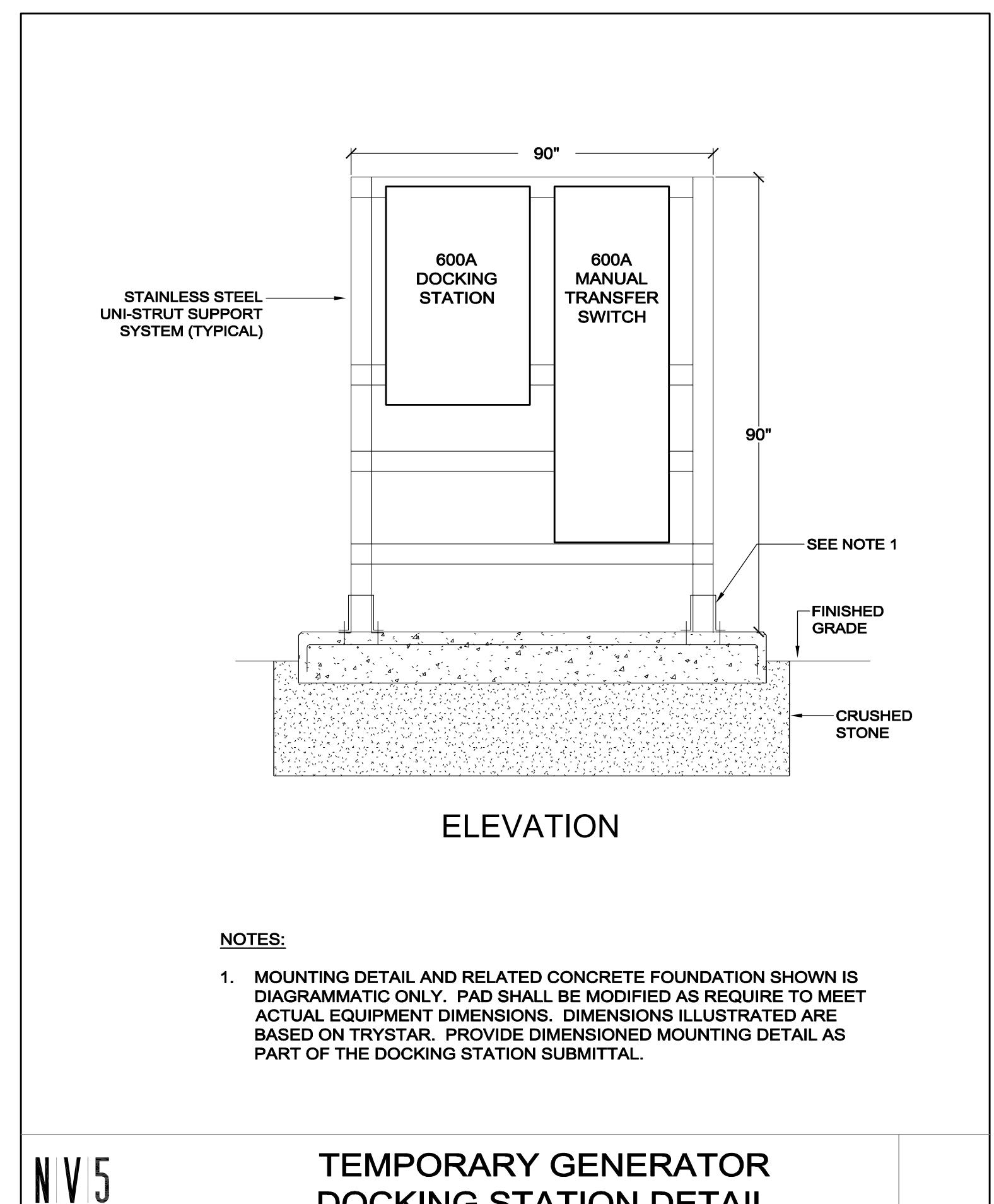
E303



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CONDUIT WALL PENETRATION

E210W



NV5

TEMPORARY GENERATOR
DOCKING STATION DETAIL

E400